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NAS CECIL FIELD, FL
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FOURTH QUARTER 2000 OPERATIONS AND MAINTENANCE STATUS REPORT FOR AIR SPARGING AND SOIL VAPOR EXTRACTION SYSTEM AT 103RD STREET AND A AVENUE JET FUEL TRANSFER PIPELINE NAS CECIL FIELD FL

5/8/2001

CH2MHILL CONSTRUCTORS INC

CH2M HILL
115 Perimeter Center Place NE
Suite 700
Atlanta, GA
30346-1278
Tel 770.604.9095
Fax 770.604.9183

CH2MHILL
Constructors, Inc.

May 8, 2001

Mr. Nick Ugolini
Southern Division, Naval Facilities Engineering Command
P.O. Box 190010
North Charleston, SC 29419-9010

RE: Contract No. N62467-98-D-0995
Contract Task Order 0029 – Naval Air Station (NAS) Cecil Field – Jacksonville, Florida
Fourth Quarter 2000 Operations and Maintenance Status Report for the Air Sparging and Soil Vapor Extraction System 103rd Street and A Avenue Jet Fuel Transfer Pipeline

Dear Mr. Ugolini:

CH2M HILL Constructors, Inc. (CCI) is pleased to provide one copy of the enclosed Fourth Quarter 2000 Operations and Maintenance Status Report for the Air Sparging and Soil Vapor Extraction System 103rd Street and A Avenue Jet Fuel Transfer Pipeline at NAS Cecil Field in Jacksonville, Florida.

If you have any questions or comments regarding the enclosed, please do not hesitate to contact me at (904) 777-4812.

Sincerely,

CH2M HILL Constructors, Inc.

Samuel M. Ross
Project Manager

cc: Larry Blackburn, ROICC
David Grabka, FDEP
Mark Speranza, TetraTech NUS (2 copies)
Paul Calligan, TetraTech NUS
CCI Project File No. 154282

Fourth Quarter 2000
Operations and Maintenance Status Report
Air Sparging and Soil Vapor Extraction System
103rd Street and A Avenue Jet Fuel Transfer Pipeline
NAS Cecil Field
Jacksonville, Florida

Contract No. N62467-98-D-0995
Contract Task Order No. 0029

Revision 00

Submitted to:

U.S. Naval Facilities Engineering Command Southern Division

Prepared by:

CH2MHILL Constructors, Inc.

115 Perimeter Center Place, N.E.
Suite 700
Atlanta, GA 30346

May 2001

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Acronyms

Acfm	actual cubic feet per minute
AS	air sparging
bls	below land surface
CCI	CH2M HILL Constructors, Inc.
cfm	cubic feet per minute
CTO	Contract Task Order
DO	dissolved oxygen
EPA	US Environmental Protection Agency
FAC	Florida Administrative Code
FDEP	Florida Department of Environmental Protection
GAC	granular activated carbon
GCTLs	groundwater cleanup target levels
LNAPL	light non-aqueous phase liquid
µg/L	micrograms per liter
NAS	Naval Air Station
NAVFAC	Naval Facilities Engineering Command
O&M	operations and maintenance
ppb	parts per billion
psi	pounds per square inch
RAP	Remedial Action Plan
RWP	Remediation Work Plan
scfm	standard cubic feet per minute
SVE	soil vapor extraction
SVOCs	semivolatile organic compounds
TRPH	total recoverable petroleum hydrocarbons
TtNUS	Tetra Tech NUS
VEW	vapor extraction well
VOCs	volatile organic compounds

1.0 Introduction

CH2M HILL Constructors, Inc. (CCI) has been contracted by the Department of the Navy, Southern Division Naval Facilities Engineering Command (NAVFAC), to provide operations and maintenance (O&M) services at 103rd Street and A Avenue Jet Fuel Transfer Pipeline at former Naval Air Station (NAS) Cecil Field, Jacksonville, Florida, under the Response Action Contract No. N62467-98-D-0995, Contract Task Order (CTO) No. 0029. The purpose of this O&M Report is to provide a summary of activities performed at the site during the period of October 1 to December 31, 2000.

1.1 Objective

The objective of the remedial action at the site of 103rd Street and A Avenue is to reduce the concentrations of petroleum related contaminants in the groundwater and unsaturated soils to target levels specified by Chapter 62-777 of Florida Administrative Code (FAC). Air sparging (AS)/soil vapor extraction (SVE) is the technology being utilized to achieve this objective.

1.2 Site History

The 103rd Street and A Avenue site is located approximately 0.25-mile east of the A Avenue gate to former NAS Cecil Field. An 8-inch diameter, steel jet fuel transfer pipeline was completed in 1952 to transfer jet fuel from NAS Jacksonville to NAS Cecil Field in July 1997. A small leak (1/8-inch diameter) in the pipeline located beneath the eastbound lane of 103rd Street was discovered. In July 1997, Bechtel Environmental, Inc. removed approximately 900 cubic yards of petroleum-contaminated soil that had resulted from the leak. The pipeline is currently de-fueled and inactive (TtNUS, 1999).

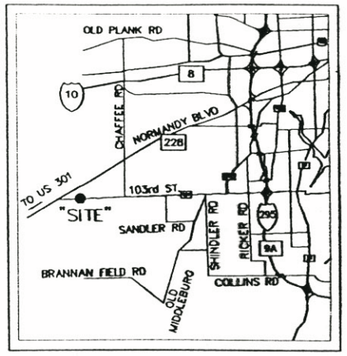
Site assessment activities were performed by Tetra Tech NUS (TtNUS) from 1998 to 1999 to delineate the extent of the light non-aqueous phase liquid (LNAPL) and soil and groundwater contamination at the site and a Remedial Action Plan (RAP) was subsequently submitted in August 1999. The RAP specified AS and SVE as the chosen remedial alternatives to address the soil and groundwater contamination at the site (TtNUS, 1999). The RAP-specified remediation system was constructed by CCI/J.A. Jones during the period of March to May 2000 and start-up was performed on May 16, 2000. The system has been operated and maintained by CCI/J.A. Jones since start-up.

1.3 Remediation System/Technology Description

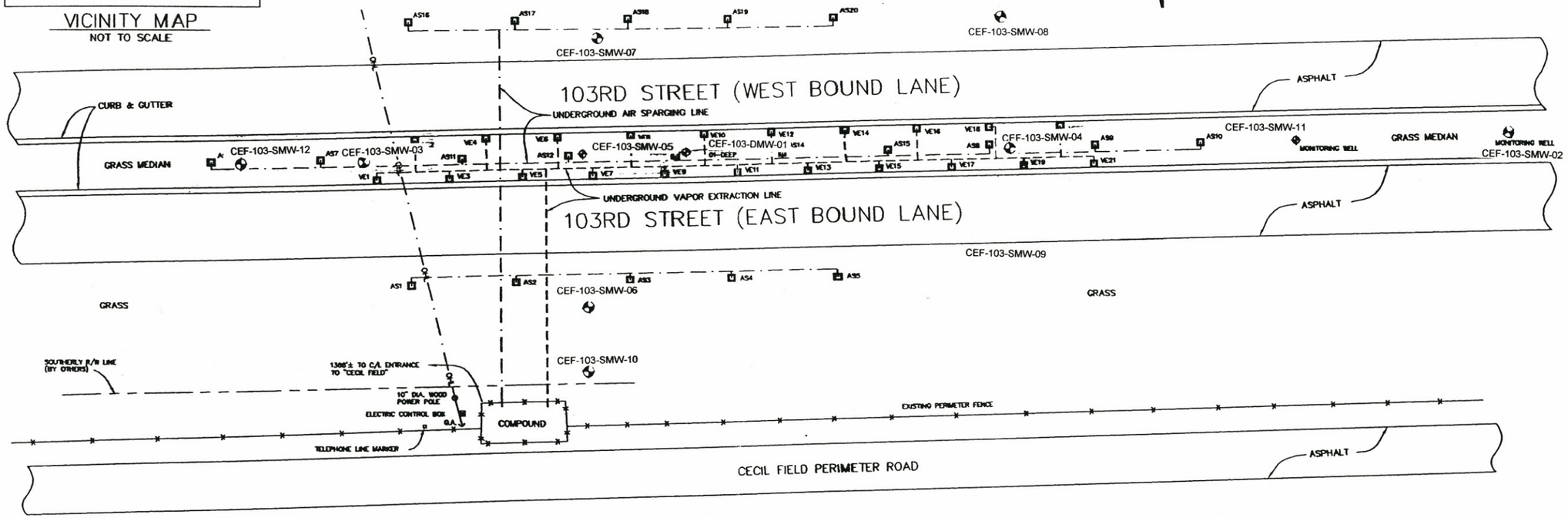
Air sparging is a method of expediting the transfer of saturated zone volatile organic compounds (VOCs) from the groundwater table to the vadose zone, where an SVE system can complete the VOC removal process. Hydrocarbon-free air is injected into air sparge wells, which are screened within the groundwater contaminant plume. As the

injected air passes upward through the VOC laden groundwater and soil, VOCs are partitioned to the passing air and migrate to the vadose zone. The SVE wells, which are located in the vadose zone above the sparge area, apply a vacuum so that the sparge air is captured and removed from the subsurface. The 103rd Street and A Avenue AS system consists of 20 air sparge wells (wells AS-1 through AS-20) that are screened from 22 to 25 feet below land surface (bls), a rotary screw-type compressor, a receiver tank, and associated piping and instrumentation. The air sparge system is designed for each air sparge well to operate at an airflow rate of 10 to 12 cubic feet per minute (cfm) at a maximum pressure of 12 pounds per square inch (psi). The locations of the AS wells are shown on Figure 1-1.

SVE is performed by applying a negative pressure, or vacuum, to SVE wells placed in the vadose zone. The actual removal is accomplished by lowering the relative pressure in the soil mass below the equilibrium pressure of the contaminant using a vacuum blower. The contaminant in the soil will volatilize and then be removed via the SVE wells. The SVE system at the 103rd Street and A Avenue site consists of 21 vertical vapor extraction wells (wells VE-1 through VE-21), a positive displacement type vacuum blower, a moisture separator equipped with a transfer pump and storage tank, and associated piping and instrumentation. The extracted vapors are treated by two 1,000-pound granular activated carbon (GAC) units placed in series prior to being discharged to the atmosphere. The SVE system is designed for each vapor extraction well to operate at an airflow rate of 16 to 17 cfm and at a vacuum pressure of 4 inches of mercury at the wellhead. Locations of the SVE wells are shown on Figure 1-1.



VICINITY MAP
NOT TO SCALE



NOTES

1.) THE SPECIFIC PURPOSE OF THIS SURVEY IS TO GRAPHICALLY ILLUSTRATE THE LOCATION OF EXISTING WELLS AND IMPROVEMENTS ON SUBJECT SITE.

2.) THIS SURVEY IS NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.

3.) NORTH ARROW SHOWN HEREON IS BASED ON COORDINATES FURNISHED BY THE CLIENT.

4.) UNDERGROUND LINES SHOWN HEREON ARE AS PER CONTRACTOR AND WERE NOT VERIFIED BY THIS FIRM.

5.) REMEDIATION STRUCTURES NOTED AS FIELD MARKED BY OTHERS.

6.) THIS MAP IS NOT TO BE CONSTRUED AS A BOUNDARY SURVEY.

7.) THIS MAP DOES NOT DETERMINE OR REFLECT OWNERSHIP OF LOCATIONS.

LEGEND

AIR SPARGING WELL — ASP — 36" X 36" CONCRETE WITH A 24" X 24" METAL COVER

UNDERGROUND AIR SPARGING LINE — · — — · — —

VAPOR EXTRACTION WELL — VE21 — 36" X 36" CONCRETE WITH A 24" X 24" METAL COVER

UNDERGROUND VAPOR EXTRACTION LINE — — — — — — — —

FENCE —×——×—

OVERHEAD LINE — · —OHL— · —

G.A. = GUY ANCHOR

Figure 1-1
AS/SUE/Groundwater Monitoring Well Location Map
103rd Street and A Avenue
Jet Fuel Transfer Pipeline
NAS Cecil Field
Jacksonville, Florida

CH2MHILL

A042001005ATL\Cecil Field 101.fh8

2.0 System Performance Monitoring

O&M checks of the system were performed daily for the first week of operation and weekly thereafter. System checks were performed daily during the first week of operation and monthly thereafter.

During an O&M check, a preventative maintenance checklist (based upon manufacturers' recommendations) is completed, and any required maintenance activity is performed. A system check consists of an O&M check and system performance monitoring, including reading of all meters and gauges and sample collection.

2.1 Operational Efficiencies

Operation efficiencies for the AS and SVE systems are as follows:

Air Sparging System

Hours of Operation	Period	To Date
Possible	2208	5328
Actual	1542	3923
Percent	69.8	73.6

Soil Vapor Extraction System

Hours of Operation	Period	To Date
Possible	2208	5328
Actual	2007	4917
Percent	90.9	92.3

2.2 Summary of Maintenance and System Downtime

2.2.1 Air Sparging System

During the period of October 1 to December 31, 2000, the AS system ran a total of 64.3 days out of a possible 92 days, resulting in 666 hours of downtime. The AS system downtime is detailed as follows:

- 562 hours - Down for electrical problem in air compressor cooling fan circuitry. The defective motor-starter for the cooling fan was replaced and the system was restarted.
- 6.5 hours - Manually shut down for fourth quarter groundwater sampling event.

- 34.5 hours - Down for air compressor high temperature alarm. This condition was corrected when the motor-starter for the cooling fan was replaced. The alarm was cleared and the system was restarted.
- 20.5 hours - Manually shut down for water level measurements.
- 2.5 hours - Manually shut down for routine maintenance.

2.2.2 Soil Vapor Extraction System

During the period of October 1 to December 31, 2000, the SVE system ran a total of 83.6 days out of a possible 92 days, resulting in 201 hours of downtime. The SVE system downtime is detailed as follows:

- 133 hours - Down for high level in the moisture separator water storage tank which resulted from water being drawn into the SVE wells during a period of rain events. The water in the storage tank was removed for proper disposal and the system was restarted.
- 46.5 hours - Manually shut down for fourth quarter groundwater sampling event.
- 20.5 hours - Manually shut down for water level measurements.
- 1 hour - Manually shut down for routine maintenance.

2.3 Pressure/Flow Rate Monitoring

2.3.1 Air Sparge System

During the monitoring period, pressure was measured at each sparge wellhead on a monthly basis for the period of October 1 to December 31, 2000. The data are provided in Table 2-1.

During normal operation, the wellhead pressures for the shallow sparge wells averaged 9.8 psi, compared to the design pressure of 9 psi.

2.3.2 Soil Vapor Extraction System

During the monitoring period, vacuum pressure and flow rate were measured at each vapor extraction wellhead on a monthly basis for the period of October 1 to December 31, 2000. The data from the flow and vacuum pressure measurement events are provided in Table 2-2.

During normal operation, the wellhead vacuum pressures for the vapor extraction wells averaged 3.8 inches of mercury, compared to the design vacuum pressure of 4 inches of mercury. The average total flow rate for the SVE system was 437.3 standard cubic feet per minute (scfm) during the monitoring period, compared to the design flow rate of 350 scfm. The airflow rates averaged 20.8 scfm for each extraction well, compared to the design extraction flow rate of 16 to 17 scfm per well.

2.4 Water Level Measurements

Depth to water measurements were recorded at selected monitoring wells on a monthly basis during the monitoring period. The results from the water level measurements are provided in Table 2-3.

LNAPL was not noted in any monitoring well during the monitoring period.

TABLE 2-1
AS System Sparge Well Measurements

AS Well	Date	Wellhead Flow (acfm)	Wellhead Pressure (psi)
AS-1	05/26/2000	NM	10
	06/02/2000	NM	11
	06/09/2000	0	9
	06/22/2000	0	0
	07/24/2000	NM	NM
	08/29/2000	NM	0
	10/30/2000	NM	8
	11/27/2000	NM	8
	12/18/2000	NM	8
AS-2	05/26/2000	NM	11
	06/02/2000	NM	9
	06/09/2000	0	9
	06/22/2000	0	0
	07/24/2000	NM	NM
	08/29/2000	NM	0
	10/30/2000	NM	8
	11/27/2000	NM	8
	12/18/2000	NM	10
AS-3	05/26/2000	NM	9
	06/02/2000	NM	9
	06/09/2000	0	9
	06/22/2000	0	10
	07/24/2000	NM	10
	08/29/2000	NM	11
	10/30/2000	NM	11
	11/27/2000	NM	10
	12/18/2000	NM	10
AS-4	05/26/2000	NM	11
	06/02/2000	NM	10
	06/09/2000	0	9
	06/22/2000	0	10
	07/24/2000	NM	NM
	08/29/2000	NM	11
	10/30/2000	NM	9
	11/27/2000	NM	12
	12/18/2000	NM	10

TABLE 2-1 (CONTINUED)
AS System Sparge Well Measurements

AS Well	Date	Wellhead Flow (acfm)	Wellhead Pressure (psi)
AS-5	05/26/2000	NM	14
	06/02/2000	NM	9
	06/09/2000	0	9
	06/22/2000	0	11
	07/24/2000	NM	12
	08/29/2000	NM	11
	10/30/2000	NM	8
	11/27/2000	NM	12
	12/18/2000	NM	9
AS-6	05/26/2000	NM	10
	06/02/2000	NM	9
	06/09/2000	0	9
	06/22/2000	0	8
	07/24/2000	NM	13
	08/29/2000	NM	8
	10/30/2000	NM	9
	11/27/2000	NM	10
	12/18/2000	NM	8
AS-7	05/26/2000	NM	9
	06/02/2000	NM	9
	06/09/2000	0	9
	06/22/2000	0	10
	07/24/2000	NM	14
	08/29/2000	NM	8
	10/30/2000	NM	8
	11/27/2000	NM	12
	12/18/2000	NM	10
AS-8	05/26/2000	NM	9
	06/02/2000	NM	9
	06/09/2000	0	11
	06/22/2000	0	8
	07/24/2000	NM	10
	08/29/2000	NM	9
	10/30/2000	MN	9
	11/27/2000	NM	12
	12/18/2000	NM	14

TABLE 2-1 (CONTINUED)
AS System Sparge Well Measurements

AS Well	Date	Wellhead Flow (acfm)	Wellhead Pressure (psi)
AS-9	05/26/2000	NM	11
	06/02/2000	NM	10
	06/09/2000	0	10
	06/22/2000	0	8
	07/24/2000	NM	11
	08/29/2000	NM	NM
	10/30/2000	NM	8
	11/27/2000	MN	10
	12/18/2000	NM	10
AS-10	05/26/2000	NM	9
	06/02/2000	NM	9
	06/09/2000	0	12
	06/22/2000	0	8
	07/24/2000	NM	13
	08/29/2000	NM	NM
	10/30/2000	NM	8
	11/27/2000	MN	10
	12/18/2000	NM	14
AS-11	05/26/2000	NM	11
	06/02/2000	NM	9
	06/09/2000	0	9
	06/22/2000	0	9
	07/24/2000	NM	11
	08/29/2000	NM	11
	10/30/2000	NM	10
	11/27/2000	MN	12
	12/18/2000	MN	11
AS-12	05/26/2000	NM	11
	06/02/2000	NM	7
	06/09/2000	0	10
	06/22/2000	0	9.5
	07/24/2000	NM	12
	08/29/2000	NM	8
	10/30/2000	NM	9
	11/27/2000	NM	12
	12/18/2000	NM	12

TABLE 2-1 (CONTINUED)
AS System Sparge Well Measurements

AS Well	Date	Wellhead Flow (acfm)	Wellhead Pressure (psi)
AS-13	05/26/2000	NM	10
	06/02/2000	NM	9
	06/09/2000	0	10
	06/22/2000	0	9
	07/24/2000	NM	10.5
	08/29/2000	NM	8
	10/30/2000	NM	11
	11/27/2000	NM	10
	12/18/2000	NM	10
AS-14	05/26/2000	NM	9
	06/02/2000	NM	9
	06/09/2000	NM	9
	06/22/2000	0	8
	07/24/2000	NM	12
	08/29/2000	NM	8
	10/30/2000	NM	10
	11/27/2000	NM	12
	12/18/2000	NM	12
AS-15	05/26/2000	NM	11
	06/02/2000	NM	9
	06/09/2000	0	11
	06/22/2000	0	8.5
	07/24/2000	NM	11
	08/29/2000	NM	15
	10/30/2000	NM	8
	11/27/2000	NM	10
	12/18/2000	NM	8
AS-16	05/26/2000	NM	11
	06/02/2000	NM	10
	06/09/2000	0	10
	06/22/2000	0	10
	07/24/2000	NM	NM
	08/29/2000	NM	10
	10/30/2000	NM	10
	11/27/2000	NM	10
	12/18/2000	NM	10
AS-17	05/26/2000	NM	9
	06/02/2000	NM	10
	06/09/2000	0	10
	06/22/2000	0	10
	07/24/2000	NM	NM
	08/29/2000	NM	10
	10/30/2000	NM	10
	11/27/2000	NM	8
	12/18/2000	NM	10

TABLE 2-1 (CONTINUED)
AS System Sparge Well Measurements

AS Well	Date	Wellhead Flow (acfm)	Wellhead Pressure (psi)
AS-18	05/26/2000	NM	11
	06/02/2000	NM	9
	06/09/2000	0	10
	06/22/2000	0	10
	07/24/2000	NM	NM
	08/29/2000	NM	0
	10/30/2000	NR	10
	11/27/2000	NM	12
	12/18/2000	NM	10
AS-19	05/26/2000	NM	11
	06/02/2000	NM	9
	06/09/2000	0	10
	06/22/2000	0	10
	07/24/2000	NM	14
	08/29/2000	NM	8
	10/30/2000	NM	8
	11/27/2000	NM	12
	12/18/2000	NM	10
AS-20	05/26/2000	NM	11
	06/02/2000	NM	11
	06/09/2000	0	10
	06/22/2000	0	8
	07/24/2000	NM	12
	08/29/2000	NM	4
	10/30/2000	NM	2
	11/27/2000	NM	10
	12/18/2000	NM	10

NM = not measured
psi = pounds per square inch
acfm = actual cubic feet per minute

TABLE 2-2
SVE System Extraction Well Measurements

SVE Well	Date	Wellhead Vacuum (in H_2O)	Wellhead Flow (scfm)
VEW-1	05/26/2000	NM	62.9
	06/02/2000	NM	0.0
	06/09/2000	NM	28.1
	06/22/2000	23	28.1
	07/24/2000	25	34.5
	08/29/2000	0	28.1
	10/30/2000	6	19.9
	11/27/2000	16	21.8
	12/18/2000	5	12.6
VEW-2	05/26/2000	NM	62.9
	06/02/2000	NM	62.9
	06/09/2000	NM	28.1
	06/22/2000	24	19.9
	07/24/2000	8	19.9
	08/29/2000	8	19.9
	10/30/2000	8	44.5
	11/27/2000	2	19.9
	12/18/2000	7	15.4
VEW-3	05/26/2000	NM	62.9
	06/02/2000	NM	12.6
	06/09/2000	NM	62.9
	06/22/2000	22	62.9
	07/24/2000	26	48.7
	08/29/2000	12	19.9
	10/30/2000	2	19.9
	11/27/2000	2	8.9
	12/18/2000	2	19.9
VEW-4	05/26/2000	NM	28.1
	06/02/2000	NM	28.1
	06/09/2000	NM	28.1
	06/22/2000	25	8.9
	07/24/2000	29	56.2
	08/29/2000	12	28.1
	10/30/2000	12	34.5
	11/27/2000	8	23.5
	12/18/2000	6	15.4
VEW-5	05/26/2000	NM	52.6
	06/02/2000	NM	12.6
	06/09/2000	NM	62.9
	06/22/2000	23	34.5
	07/24/2000	25	39.8
	08/29/2000	12	19.9
	10/30/2000	0	52.6
	11/27/2000	2	8.9
	12/18/2000	4	12.6

TABLE 2-2 (CONTINUED)
SVE System Extraction Well Measurements

SVE Well	Date	Wellhead Vacuum (in H_2O)	Wellhead Flow (scfm)
VEW-6	05/26/2000	NM	39.8
	06/02/2000	NM	62.9
	06/09/2000	NM	62.9
	06/22/2000	22	84.3
	07/24/2000	25	34.5
	08/29/2000	14	34.5
	10/30/2000	12	34.5
	11/27/2000	2	19.9
	12/18/2000	5	15.4
VEW-7	05/26/2000	NM	28.1
	06/02/2000	NM	12.6
	06/09/2000	NM	28.1
	06/22/2000	23	19.9
	07/24/2000	26	28.1
	08/29/2000	14	19.9
	10/30/2000	0	44.5
	11/27/2000	1	8.9
	12/18/2000	5	21.8
VEW-8	05/26/2000	NM	62.9
	06/02/2000	NM	28.1
	06/09/2000	24	39.8
	06/22/2000	22	28.1
	07/24/2000	24	19.9
	08/29/2000	13	125.3
	10/30/2000	12	34.5
	11/27/2000	3	28.1
	12/18/2000	5	17.8
VEW-9	05/26/2000	NM	19.9
	06/02/2000	NM	12.6
	06/09/2000	24	39.8
	06/22/2000	21	19.9
	07/24/2000	25	19.9
	08/29/2000	5	28.1
	10/30/2000	4	28.1
	11/27/2000	3	12.6
	12/18/2000	4	26.7
VEW-10	05/26/2000	NM	28.1
	06/02/2000	NM	62.9
	06/09/2000	24	32.1
	06/22/2000	23	28.1
	07/24/2000	28	19.9
	08/29/2000	11	39.8
	10/30/2000	13	28.1
	11/27/2000	5	28.1
	12/18/2000	5	12.6

TABLE 2-2 (CONTINUED)
SVE System Extraction Well Measurements

SVE Well	Date	Wellhead Vacuum (in H_2O)	Wellhead Flow (scfm)
VEW-11	05/26/2000	NM	28.1
	06/02/2000	NM	28.1
	06/09/2000	24	19.9
	06/22/2000	21	19.9
	07/24/2000	24	28.1
	08/29/2000	14	28.1
	10/30/2000	0	44.5
	11/27/2000	2	15.4
	12/18/2000	4	12.6
VEW-12	05/26/2000	NM	44.5
	06/02/2000	NM	19.9
	06/09/2000	24	25.2
	06/22/2000	22	19.9
	07/24/2000	25	19.9
	08/29/2000	14	19.9
	10/30/2000	10	19.9
	11/27/2000	2	12.6
	12/18/2000	4	8.9
VEW-13	05/26/2000	NM	34.5
	06/02/2000	NM	34.5
	06/09/2000	24	12.6
	06/22/2000	22	19.9
	07/24/2000	26	34.5
	08/29/2000	13	19.9
	10/30/2000	0	19.9
	11/27/2000	1	8.9
	12/18/2000	5	17.8
VEW-14	05/26/2000	NM	19.9
	06/02/2000	NM	62.9
	06/09/2000	24	15.4
	06/22/2000	20	19.9
	07/24/2000	25	28.1
	08/29/2000	14	19.9
	10/30/2000	0	19.9
	11/27/2000	2	15.4
	12/18/2000	4	17.8
VEW-15	05/26/2000	NM	12.6
	06/02/2000	NM	19.9
	06/09/2000	24	28.1
	06/22/2000	24	28.1
	07/24/2000	27	19.9
	08/29/2000	14	34.5
	10/30/2000	0	19.9
	11/27/2000	5	15.4
	12/18/2000	5	12.6

TABLE 2-2 (CONTINUED)
SVE System Extraction Well Measurements

SVE Well	Date	Wellhead Vacuum (in H_2O)	Wellhead Flow (scfm)
VEW-16	05/26/2000	NM	28.1
	06/02/2000	NM	19.9
	06/09/2000	20	19.9
	06/22/2000	20	34.5
	07/24/2000	23	39.8
	08/29/2000	13	19.9
	10/30/2000	0	39.8
	11/27/2000	4	25.2
	12/18/2000	2	12.6
VEW-17	05/26/2000	NM	62.9
	06/02/2000	NM	28.1
	06/09/2000	24	37.7
	06/22/2000	22	21.8
	07/24/2000	26	28.1
	08/29/2000	14	28.1
	10/30/2000	0	19.9
	11/27/2000	0	8.9
	12/18/2000	2	8.9
VEW-18	05/26/2000	NM	34.5
	06/02/2000	NM	28.1
	06/09/2000	23	39.8
	06/22/2000	23	12.6
	07/24/2000	24	28.1
	08/29/2000	13	28.1
	10/30/2000	0	19.9
	11/27/2000	3	12.6
	12/18/2000	2	21.8
VEW-19	05/26/2000	NM	19.9
	06/02/2000	NM	19.9
	06/09/2000	22	25.2
	06/22/2000	21	12.6
	07/24/2000	25	28.1
	08/29/2000	15	19.9
	10/30/2000	0	28.1
	11/27/2000	2	15.4
	12/18/2000	4	12.6
VEW-20	05/26/2000	NM	12.6
	06/02/2000	NM	62.9
	06/09/2000	23	62.9
	06/22/2000	20	19.9
	07/24/2000	23	28.1
	08/29/2000	12	28.1
	10/30/2000	0	34.5
	11/27/2000	3	19.9
	12/18/2000	5	17.8

TABLE 2-2
SVE System Extraction Well Measurements

SVE Well	Date	Wellhead Vacuum (in H_2O)	Wellhead Flow (scfm)
VEW-21	05/26/2000	NM	12.6
	06/02/2000	NM	12.6
	06/09/2000	20	19.9
	06/22/2000	20	12.6
	07/24/2000	25	19.9
	08/29/2000	10	19.9
	10/30/2000	0	19.9
	11/27/2000	3	15.4
	12/18/2000	4	25.2

NM = not measured
in H_2O = inches of water column
scfm = standard cubic feet per minute

TABLE 2-3
Groundwater Monitoring Well Water Level Data

Well Identification	Well Total Depth (feet below ground surface)	Date	Depth to Water (Feet Below Top of Casing)
CEF-103-SMW-01	13.00	08/30/2000	4.56
		09/28/2000	3.07
		10/31/2000	4.19
		11/27/2000	NM
		12/20/2000	5.38
CEF-103-SMW-02	13.25	08/30/2000	5.00
		09/28/2000	4.05
		10/31/2000	5.50
		11/27/2000	NM
		12/20/2000	6.53
CEF-103-SMW-03	12.60	08/30/2000	NM
		09/28/2000	12.60
		10/31/2000	12.14
		11/27/2000	NM
		12/20/2000	8.67
CEF-103-SMW-04	12.66	08/30/2000	NM
		09/28/2000	NM
		10/31/2000	6.46
		11/27/2000	NM
		12/20/2000	6.75
CEF-103-SMW-05	13.26	08/30/2000	5.52
		09/28/2000	NM
		10/31/2000	5.87
		11/27/2000	NM
		12/20/2000	6.47
CEF-103-SMW-06	13.18	08/30/2000	NM
		09/28/2000	NM
		10/31/2000	8.26
		11/27/2000	0.00
		12/20/2000	3.15
CEF-103-SMW-07	13.29	08/30/2000	7.63
		09/28/2000	7.91
		10/31/2000	8.10
		11/27/2000	3.10
		12/20/2000	5.60
CEF-103-SMW-08	18.23	08/30/2000	2.53
		09/28/2000	NM
		10/31/2000	3.28
		11/27/2000	2.95
		12/20/2000	4.04
CEF-103-SMW-09	13.24	08/30/2000	4.56
		09/28/2000	NM
		10/31/2000	4.65
		11/27/2000	2.99
		12/20/2000	4.55

TABLE 2-3 (CONTINUED)
Groundwater Monitoring Well Water Level Data

Well Identification	Well Total Depth (feet below ground surface)	Date	Depth to Water (Feet Below Top of Casing)
CEF-103-SMW-10	11.63	08/30/2000	NM
		09/28/2000	0.45
		10/31/2000	2.35
		11/27/2000	1.05
		12/20/2000	2.11
CEF-103-SMW-11	16.10	08/30/2000	5.55
		09/28/2000	4.60
		10/31/2000	6.06
		11/27/2000	NM
		12/20/2000	6.78
CEF-103-SMW-12	12.80	08/30/2000	6.51
		09/28/2000	NM
		10/31/2000	6.51
		11/27/2000	NM
		12/20/2000	6.28
CEF-103-DMW-01	38.75	08/30/2000	6.96
		09/28/2000	NM
		10/31/2000	7.06
		11/27/2000	NM
		12/20/2000	6.96

NM = not measured

3.0 Summary of Sampling and Laboratory Analytical Results

3.1 Vapor Monitoring

The GAC influent, mid-fluent and effluent were sampled monthly during the fourth quarter for analyses by U. S. Environmental Protection Agency (EPA) Method 18, TO-14. Copies of the analytical laboratory reports from the air sampling events are provided in Appendix A, and analytical results are summarized in Tables 3-1, 3-2, and 3-3. The pounds per day loading rate summary is provided in Table 3-4.

Based upon an average pounds per day VOC removal rate and an on-stream time of 83.6 days, a total of 0.022 pounds of VOCs were removed from the subsurface during the monitoring period via volatilization. It should be noted that this calculation does not take into account the reductions that resulted from biodegradation of the contaminants in the groundwater.

3.2 Groundwater Monitoring

Monitoring wells CEF-103-SMW-01, CEF-103-SMW-02, CEF-103-SMW-03, CEF-103-SMW-07, CEF-103-SMW-10, and CEF-103-SMW-11 were sampled for VOCs, semivolatile organic compounds (SVOCs), lead, and total recoverable petroleum hydrocarbons (TRPH) during the monitoring period. Five of the six monitoring wells are located within the treatment zone and exhibited significant decreases in contaminant concentrations from the baseline groundwater sampling event that was performed prior to system startup on March 20, 2000. These five monitoring wells exhibited concentrations below groundwater cleanup target levels (GCTLs) for all constituents except lead. The lead concentrations may have been due to turbidity in the samples. The sixth monitoring well, CEF-103-SMW-11, is the eastern most monitoring well which is located outside the treatment zone of the air sparge system. This well has exhibited decreases in contaminant concentrations but the levels are still above the GCTLs for benzene, trimethylbenzenes, isopropylbenzene, naphthalene, TRPH, and lead. Monitoring wells CEF-103-SMW-04, CEF-103-SMW-05, CEF-103-SMW-06, CEF-103-SMW-08, CEF-103-SMW-09, CEF-103-SMW-12, and CEF-103-DMW-01 are not sampled during the quarterly sampling events. The locations of the monitoring wells are shown on Figure 1-1. Copies of the analytical laboratory reports from groundwater sampling events are provided in Appendix B; analytical results are summarized in Table 3-5.

Dissolved oxygen (DO) measurements were recorded at the six monitoring wells that are sampled on a quarterly basis during the monitoring period. The results indicate that the DO concentrations in the five monitoring wells located within the treatment zone were elevated as a result of remediation system operation. Note that the DO concentration in monitor well CEF-103-SMW-11 is not elevated, indicating that it is not affected by the remediation system. Results from the DO measurement events are summarized in Table 3-6.

TABLE 3-1
SVE System Pre-Treatment Vapor Analytical Results

Compound (µg/L)	05/16/00	05/26/00	06/02/00	06/09/00	06/27/00	07/24/00	08/15/00	09/18/00	10/18/00	11/13/00	12/11/00
1,1,1-Trichloroethane	<43	<8.6	<8.6	<8.6	<8.6	<5.456	<21.82	<2.728	<3.432	<3.432	<3.432
1,1,2,2-Tetrachloroethane	<54	<11	<11	<11	<11	<6.865	<27.46	<3.432	<3.432	<3.432	<3.432
1,1,2-Trichloroethane	<43	<8.6	<8.6	<8.6	<8.6	<5.456	<21.82	<2.728	<2.728	<2.728	<2.728
1,1,2-Trichloro-1,2,2-trifluoroethane	NA	NA	NA	NA	NA	<7.663	<30.65	<3.831	NA	NA	NA
1,1-Dichloroethane	<32	<6.4	<6.4	<6.4	<6.4	<4.047	<16.19	<2.023	<2.728	<2.728	<2.728
1,1-Dichloroethene	<31	<6.3	<6.3	<6.3	<6.3	<3.965	<15.86	<1.982	<2.728	<2.728	NA
1,2,4-Trichlorobenzene	<59	<12	<12	<12	<12	<7.421	<29.68	<3.710	NA	NA	NA
1,2,4-Trimethylbenzene	5100	1030	1230	1230	1000	<4.915	<19.66	<2.457	NA	NA	NA
1,2-Dibromoethane	<61	<12	<12	<12	<12	<7.684	<30.73	<3.842	NA	NA	NA
1,2-Dichloroethane	<32	<6.4	<6.4	<6.4	<6.4	<4.047	<16.18	<2.023	<2.728	<2.728	<2.728
1,2-Dichlorobenzene	NA	NA	NA	NA	NA	<6.012	<24.05	<3.006	<2.728	<2.728	<2.728
1,3-Dichlorobenzene	NA	NA	NA	NA	NA	<6.012	<24.05	<3.006	<2.728	<2.728	<2.728
1,4-Dichlorobenzene	NA	NA	NA	NA	NA	<6.012	<24.05	<3.006	<2.728	<2.728	<2.728
1,2-Dichloropropane	<37	<7.3	<7.3	<7.3	<7.3	<4.621	<18.48	<2.310	<2.728	<2.728	<2.728
1,3,5-Trimethylbenzene	1430	320	396	396	352	<4.915	<19.66	<2.457	NA	NA	NA
2-Chlorotoluene	NA	NA	NA	NA	NA	<5.177	<20.71	<2.588	NA	NA	NA
4-Ethyltoluene	1480	368	364	364	282	<4.952	<19.81	<2.476	NA	NA	NA
Alpha-Chlorotoluene	NA	NA	NA	NA	NA	<5.668	<22.67	<2.834	NA	NA	NA
Benzene	24	4.5	<5.1	<5.1	1.1	<3.194	<12.77	<1.597	NA	NA	<2.728
Bromoform	NA	NA	NA	NA	NA	<10.33	<41.34	<5.168	NA	NA	NA
Bromomethane	<31	<6.2	<6.2	<6.2	<6.2	<3.883	<15.53	<1.941	<2.728	<2.728	<2.728
Bromodichloromethane	NA	NA	NA	NA	NA	<6.699	<26.79	<3.349	<2.728	<2.728	NA
Carbon Disulfide	NA	NA	NA	NA	NA	<3.113	<12.45	<1.556	NA	NA	NA
Carbon Tetrachloride	<50	<9.9	<9.9	<9.9	<9.9	<6.292	<25.16	<3.146	<2.728	<2.728	<2.728
Chlorobenzene	<37	<7.3	<7.3	<7.3	<7.3	<4.603	<18.41	<2.301	<2.728	<2.728	<2.728
Chloroethane	<21	<4.2	<4.2	<4.2	<4.2	<2.638	<10.55	<1.319	<2.728	<2.728	<2.728
Chloroform	<39	<7.7	<7.7	<7.7	<7.7	<4.883	<19.53	<2.441	<2.728	<2.728	4.475
Chloromethane	<16	<3.3	<3.3	<3.3	<3.3	<2.065	<8.260	<1.032	<2.728	<2.728	<2.728
cis-1,2-Dichloroethene	<31	<6.3	<6.3	<6.3	<6.3	<3.965	<15.86	<1.982	<2.728	<2.728	<2.728
cis-1,3-Dichloropropene	<36	<7.2	<7.2	<7.2	<7.2	<4.539	<18.15	<2.269	<2.728	<2.728	<2.728
Dibromochloromethane	NA	NA	NA	NA	NA	<3.524	<14.09	<1.762	<2.728	<2.728	NA
Dichlorodifluoromethane	<39	<7.8	<7.8	<7.8	3.5	<4.945	<19.78	<2.472	NA	NA	NA
Dichlorotetrafluoroethane	NA	NA	NA	NA	NA	<6.991	<27.96	<3.495	NA	NA	NA
Ethylbenzene	1260	415	348	348	222	269.199	19.104	<2.170	<2.728	<2.728	<2.728
Freon 113	1280	31	<12	<12	47	<7.663	<30.65	<3.831	NA	NA	NA
Freon 114	<56	<11	<11	<11	<11	<6.990	<27.96	<3.495	NA	NA	NA
Hexachlorobutadiene	<85	<17	<17	<17	<17	<10.66	<42.66	<5.332	NA	NA	NA
Hexane	NA	NA	NA	NA	NA	<3.524	<14.09	<1.762	NA	NA	NA
m-Dichlorobenzene	<48	<9.6	<9.6	<9.6	<9.6	NA	NA	NA	NA	NA	NA
m,p-Xylene	2840	1080	967	967	772	998.642	95.522	<2.170	<2.728	4.638	<2.728
o-Dichlorobenzene	<48	<9.6	<9.6	<9.6	<9.6	NA	NA	NA	NA	NA	NA
p-Dichlorobenzene	<48	<9.6	<9.6	<9.6	<9.6	NA	NA	NA	NA	NA	NA
Methyl Tert Butyl Ether	<29	<5.8	<5.8	<5.8	<5.8	<3.605	<14.42	<1.802	<2.728	<2.728	NA
Methylene Chloride	81.4	<5.5	<5.5	<5.5	5.5	<3.474	17.023	<1.737	5.129	<2.728	<2.728
o-Xylene	207	83.2	215	215	198	273.541	39.511	<2.170	<2.728	<2.728	<2.728
Styrene	<34	<6.8	<6.8	<6.8	<6.8	<4.259	<17.03	<2.129	<2.728	<2.728	<2.728
Tetrachloroethene	<54	<11	<11	<11	<11	<6.783	<27.13	<3.391	<2.728	<2.728	<2.728
Toluene	55.7	4.9	7.9	7.9	6.0	3.768	715.939	<1.884	<2.728	6.548	<2.728
trans-1,2-Dichloroethene	NA	NA	NA	NA	NA	<3.964	<15.85	<1.982	NA	NA	NA
trans-1,3-Dichloropropene	<36	<7.2	<7.2	<7.2	<7.2	<4.539	<18.15	<2.269	<2.728	<2.728	<2.728
trans-1,4-Dichloro-2-butene	NA	NA	NA	NA	NA	<5.112	<20.44	<2.556	NA	NA	NA
Trichloroethene	<42	<8.5	<8.5	<8.5	<8.5	<5.374	<21.49	<2.687	<2.728	<2.728	<2.728
Trichlorofluoromethane	<44	<8.9	<8.9	<8.9	<8.9	<5.618	<22.47	<2.809	<2.728	<2.728	<2.728
Trichlorotrifluoroethane	NA	NA	NA	NA	NA	<7.663	<30.65	<3.831	NA	NA	NA
Vinyl Chloride	<20	<4.0	<4.0	<4	<4.0	<2.556	<10.22	<1.278	<2.728	<2.728	<2.728
Xylenes (total)	3040	1160	1180	1180	971	1272.183	4.776	<4.341	<2.728	4.638	<2.728
Total Volatile Organics (mg/m^3)	13.758	3.337	3.528	3.528	2.889	1.545	0.887	0.000	0.005	0.011	0.004

Total Volatile Organics = sum of all detected volatile organic compounds
To compute Total Volatile Organic Compounds: all non-detectable compounds were assumed to be zero
All samples analyzed by EPA Method 18/TO 14
NA = Not Analyzed
µg/L = micrograms per liter

TABLE 3-2
SVE System Mid-Carbon Vapor Analytical Results

Compound (µg/m^3)	07/24/00	08/15/00	09/18/00	10/18/00	11/13/00	12/11/00
OVA-FID (ppm)	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	<2.728	<2.728	<2.728	<3.432	<2.728	<2.728
1,1,2,2-Tetrachloroethane	<3.432	<3.432	<3.432	<3.432	<3.432	<3.432
1,1,2-Trichloroethane	<2.728	<2.728	<2.728	<2.728	<2.728	<2.728
1,1,2-Trichloro-1,2,2-trifluoroethane	<3.831	<3.831	<3.831	NA	NA	NA
1,1-Dichloroethane	<2.023	<2.023	<2.023	<2.728	<2.728	<2.023
1,1-Dichloroethene	<1.982	<1.982	<1.982	<2.728	<2.728	NA
1,2,4-Trichlorobenzene	<3.710	<3.710	<3.710	NA	NA	NA
1,2,4-Trimethylbenzene	<2.457	<2.457	<2.457	NA	NA	NA
1,2-Dibromoethane	<3.842	<3.842	<3.842	NA	NA	NA
1,2-Dichloroethane	<2.023	<2.023	<2.023	<2.728	<2.728	<2.023
1,2-Dichlorobenzene	<3.006	<3.006	<3.006	<2.728	<2.728	<3.006
1,3-Dichlorobenzene	<3.006	<3.006	<3.006	<2.728	<2.728	<3.006
1,4-Dichlorobenzene	<3.006	<3.006	<3.006	<2.728	<2.728	<3.006
1,2-Dichloropropane	<2.310	<2.310	<2.310	<2.728	<2.728	<2.310
1,3,5-Trimethylbenzene	<2.457	<2.457	<2.457	NA	NA	NA
2-Chlorotoluene	<2.588	<2.588	<2.588	NA	NA	NA
4-Ethyltoluene	<2.476	<2.476	<2.476	NA	NA	NA
Alpha-Chlorotoluene	<2.834	<2.834	<2.834	NA	NA	NA
Benzene	<1.597	<1.597	3.834	<2.728	<2.728	<1.597
Bromoform	<5.168	<5.168	<5.168	NA	NA	NA
Bromomethane	<1.941	<1.941	<1.941	<2.728	<2.728	<1.941
Bromodichloromethane	<3.349	<3.349	<3.349	NA	NA	NA
Carbon Disulfide	<1.556	<1.556	<1.556	NA	NA	NA
Carbon Tetrachloride	<3.146	<3.146	<3.146	<2.728	<2.728	<3.146
Chlorobenzene	<2.301	<2.301	<2.301	<2.728	<2.728	<2.301
Chloroethane	<1.319	<1.319	1.926	<2.728	<2.728	<1.319
Chloroform	<2.441	<2.441	<2.441	<2.728	<2.728	3.272
Chloromethane	<1.032	1.094	1.115	<2.728	<2.728	<1.032
cis-1,2-Dichloroethene	<1.982	<1.982	<1.982	<2.728	<2.728	<1.982
cis-1,3-Dichloropropene	<2.269	<2.269	<2.269	<2.728	<2.728	<2.269
Dibromochloromethane	<1.762	<1.762	<1.762	NA	NA	NA
Dichlorodifluoromethane	<2.472	<2.472	<2.472	NA	NA	NA
Dichlorotetrafluoroethane	<3.495	<3.495	<3.495	NA	NA	NA
Ethylbenzene	<2.170	9.552	42.985	<2.728	<2.728	<2.170
Freon 113	<3.831	<3.831	<3.831	NA	NA	NA
Freon 114	<3.495	<3.495	<3.495	NA	NA	NA
Hexachlorobutadiene	<5.332	<5.332	<5.332	NA	NA	NA
Hexane	<1.762	<1.762	<1.762	NA	NA	NA

TABLE 3-2 (CONTINUED)
SVE System Mid-Carbon Vapor Analytical Results

Compound ($\mu g/m^3$)	07/24/00	08/15/00	09/18/00	10/18/00	11/13/00	12/11/00
m,p-Xylene	<2.170	130.258	277.883	<2.728	<2.728	<2.170
Methyl Tert Butyl Ether	<1.802	<1.802	<1.802	NA	NA	NA
Methylene Chloride	7.990	<1.737	<1.737	6.548	<2.728	2.744
o-Xylene	<2.170	104.206	95.522	<2.728	<2.728	<2.170
Styrene	<2.129	<2.129	<2.129	<2.728	<2.728	<2.129
Tetrachloroethene	<3.391	<3.391	<3.391	<2.728	<2.728	<3.391
Toluene	<1.884	<1.884	16.580	<2.728	<2.728	4.522
trans-1,2-Dichloroethene	<1.982	<1.982	<1.982	NA	NA	NA
trans-1,3-Dichloropropene	<2.269	<2.269	<2.269	<2.728	<2.728	<2.269
trans-1,4-Dichloro-2-butene	<2.556	<2.556	<2.556	NA	NA	NA
Trichloroethene	<2.687	<2.687	<2.687	<2.728	<2.728	<2.687
Trichlorofluoromethane	<2.809	<2.809	<2.809	<2.728	<2.728	<2.809
Trichlorotrifluoroethane	<3.831	<3.831	<3.831	NA	NA	NA
Vinyl Chloride	<1.278	<1.278	<1.278	<2.728	<2.728	<1.278
Xylenes (total)	<4.341	234.464	369.063	NA	NA	NA
Total Volatile Organics (mg/m^3)	0.008	0.245	0.440	0.007	0.000	0.011

Total Volatile Organics = sum of all detected volatile organic compounds
To compute Total Volatile Organic Compounds: all non-detectable compounds were assumed to be zero
All samples analyzed by EPA Method 18/TO 14
NA = Not Analyzed
mg/m^3 = milligrams per cubic meter

TABLE 3-3
SVE System Post-Treatment Analytical Results

Compound (µg/m^3)	07/24/00	08/15/00	09/18/00	10/18/00	11/13/00	12/11/00
OVA-FID (ppm)	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	<2.728	<2.728	<2.728	<2.728	<2.728	<2.728
1,1,2,2-Tetrachloroethane	<3.432	<3.432	<3.432	<3.432	<3.432	<3.432
1,1,2-Trichloroethane	<2.728	<2.728	<2.728	<2.728	<2.728	<2.728
1,1,2-Trichloro-1,2,2-trifluoroethane	<3.831	<3.831	<3.831	NA	NA	NA
1,1-Dichloroethane	<2.023	<2.023	<2.023	<2.023	<2.023	<2.023
1,1-Dichloroethene	<1.982	<1.982	<1.982	NA	NA	NA
1,2,4-Trichlorobenzene	<3.710	<3.710	<3.710	NA	NA	NA
1,2,4-Trimethylbenzene	<2.457	<2.457	<2.457	NA	NA	NA
1,2-Dibromoethane	<3.842	<3.842	<3.842	NA	NA	NA
1,2-Dichloroethane	<2.023	<2.023	<2.023	<2.023	<2.023	<2.023
1,2-Dichlorobenzene	<3.006	<3.006	<3.006	<3.006	<3.006	<3.006
1,3-Dichlorobenzene	<3.006	<3.006	<3.006	<3.006	<3.006	<3.006
1,4-Dichlorobenzene	<3.006	<3.006	<3.006	<3.006	<3.006	<3.006
1,2-Dichloropropane	<2.310	<2.310	<2.310	<2.310	<2.310	<2.310
1,3,5-Trimethylbenzene	<2.457	<2.457	<2.457	NA	NA	NA
2-Chlorotoluene	<2.588	<2.588	<2.588	NA	NA	NA
4-Ethyltoluene	<2.476	<2.476	<2.476	NA	NA	NA
Alpha-Chlorotoluene	<2.834	<2.834	<2.834	NA	NA	NA
Benzene	76.672	38.336	8.626	<1.597	<1.597	2.747
Bromoform	<5.168	<5.168	<5.168	NA	NA	NA
Bromomethane	<1.941	<1.941	<1.941	<1.941	<1.941	<1.941
Bromodichloromethane	<3.349	<3.349	<3.349	NA	NA	NA
Carbon Disulfide	<1.556	<1.556	<1.556	NA	NA	NA
Carbon Tetrachloride	<3.146	<3.146	<3.146	<3.146	<3.146	<3.146
Chlorobenzene	<2.301	<2.301	<2.301	<2.301	<2.301	<2.301
Chloroethane	<1.319	<1.319	<1.319	<2.301	<1.319	<1.319
Chloroform	<2.441	<2.441	<2.441	<2.441	<2.441	6.348
Chloromethane	<1.032	1.425	<1.032	<1.032	<1.032	1.652
cis-1,2-Dichloroethene	<1.982	<1.982	<1.982	<1.982	<1.982	<1.982
cis-1,3-Dichloropropene	<2.269	<2.269	<2.269	<2.269	<2.269	<2.269
Dibromochloromethane	<1.762	<1.762	<1.762	NA	NA	NA
Dichlorodifluoromethane	<2.472	<2.472	<2.472	NA	NA	NA
Dichlorotetrafluoroethane	<3.495	<3.495	<3.495	NA	NA	NA
Ethylbenzene	2.214	7.381	47.761	<2.170	47.761	138.942
Freon 113	<3.831	<3.831	<3.831	NA	NA	NA
Freon 114	<3.495	<3.495	<3.495	NA	NA	NA
Hexachlorobutadiene	<5.332	<5.332	<5.332	NA	NA	NA
Hexane	<1.762	<1.762	<1.762	NA	NA	NA

TABLE 3-3 (CONTINUED)
SVE System Post-Treatment Analytical Results

Compound (µg/m^3)	07/24/00	08/15/00	09/18/00	10/18/00	11/13/00	12/11/00
m,p-Xylene	16.065	18.236	4.342	<2.170	26.486	56.445
Methyl Tert Butyl Ether	<1.802	<1.802	<1.802	NA	NA	NA
Methylene Chloride	<1.737	<1.737	<1.737	3.057	<1.737	4.169
o-Xylene	9.986	9.118	<2.170	<2.170	4.342	<2.170
Styrene	<2.129	<2.129	<2.129	<2.129	<2.129	<2.129
Tetrachloroethene	<3.391	<3.391	<3.391	<2.129	<3.391	<3.391
Toluene	<1.884	<1.884	45.217	<1.884	<1.884	60.290
trans-1,2-Dichloroethene	<1.982	<1.982	<1.982	NA	NA	NA
trans-1,3-Dichloropropene	<2.269	<2.269	<2.269	<2.269	34.497	<2.269
trans-1,4-Dichloro-2-butene	<2.556	<2.556	<2.556	NA	NA	NA
Trichloroethene	<2.687	<2.687	<2.687	<2.687	<2.687	<2.687
Trichlorofluoromethane	<2.809	<2.809	<2.809	<2.809	<2.809	2.809
Trichlorotrifluoroethane	<3.831	<3.831	<3.831	NA	NA	NA
Vinyl Chloride	<1.278	<1.278	<1.278	<1.278	<1.278	<1.278
Xylenes (total)	<4.34	<4.34	<4.34	<4.34	60.983	NA
Total Volatile Organics (mg/m^3)	0.105	0.074	0.106	0.003	0.113	0.273

Total Volatile Organics = sum of all detected volatile organic compounds
To compute Total Volatile Organic Compounds: all non-detectable compounds were assumed to be zero
All samples analyzed by EPA Method 18/TO 14
NA = Not Analyzed
µg/L = micrograms per liter
mg/m^3 = milligrams per cubic centimeter

TABLE 3-4
Mass Loading/Emission Rate Summary

Location	Sample Date	Flow Rate (scfm)	Total VOC Concentration (mg/m3)	Loading Rate (lbs/day)
Pre-Carbon Unit	07/24/2000	624.2	1.545	0.0868
(influent)	08/15/2000	630.0	0.887	0.0503
	09/18/2000	630.0	0.000	0.0000
	10/18/2000	627.2	0.005	0.0003
	11/13/2000	345.9	0.011	0.0003
	12/11/2000	338.7	0.0045	0.0001
Mid-Carbon Unit	07/24/2000	624.2	0.008	0.0004
(mid-fluent)	08/15/2000	630.0	0.245	0.0139
	09/18/2000	630.0	0.440	0.0249
	10/18/2000	627.2	0.007	0.0004
	11/13/2000	345.9	0.000	0.0000
	12/11/2000	338.7	0.011	0.0003
Post-Carbon Unit	07/24/2000	624.2	0.105	0.0059
(effluent)	08/15/2000	630.0	0.074	0.0042
	09/18/2000	630.0	0.106	0.0060
	10/18/2000	627.2	0.105	0.0059
	11/13/2000	345.9	0.074	0.0023
	12/11/2000	338.7	0.106	0.0032

scfm = standard cubic feet per minute
mg/m^3 = milligrams per cubic meter
lbs/day = pounds per day

TABLE 3-5
Groundwater Analytical Results

	Sample Date	Benzene	Toluene	Ethylbenzene	Xylenes (total)	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane	1,3,5-Trimethylbenzene	Chloromethane	Hexachlorobutadiene	Isopropylbenzene	Methylene Chloride	n-Propylbenzene	p-Isopropyltoluene	sec-Butylbenzene	1- Methylnaphthalene	2-Methylnaphthalene	Naphthtalene (by EPA Method 8021)	Naphthalene (by EPA Method 8310)	Petroleum Range Org (PRO)	Lead
CEF-103-SMW01	**03/20/00**	<2	1.1	<3	<5	2.9	2.4	<6.5	1.4	<2.5	1.1	1.3	<2.5	2	<2	<6	<6.5	<1	<1	3.5	<1.0	420	68
	09/28/00	<2	<5.5	<3	<5	<1.5	<2	<6.5	<13	<2.5	<6.5	<5.5	<2.5	<1.5	<2	<6	<6.5	<1	<1	0.89	<1.04	440	ND
	12/20/00	<2	<5.5	<3	<5	0.91	0.57	<6.5	<13	<2.5	<6.5	<5.5	<2.5	<1.5	<2	<6	<6.5	<1	<1	2	<1	470	110
CEF-103-SMW02	**03/20/00**	<2	<5.5	<3	<5	1.1	1.7	1.9	<13	<2.5	<6.5	<5.5	<2.5	<1.5	<2	5.2	<6.5	<1	<1	3.7	<1.0	330	36
	09/28/00	<2	<5.5	<3	<5	<1.5	<2	<6.5	<13	<2.5	<6.5	<5.5	<2.5	<1.5	<2	<6	<6.5	<1	<1	0.69	<1.04	660	32
	12/20/00	<2	<5.5	<3	<5	<1.5	<2	0.64	<13	<2.5	<6.5	<5.5	<2.5	<1.5	<2	<6	<6.5	<1	<1	1.5	<1	580	170
CEF-103-SMW03	**03/20/00**	<2	1.4	3.7	<5	<1.5	<2	52	<13	20	<6.5	<5.5	4.6	<1.5	4.2	12	2.2	<1	<1	17	3.7	1500	57
	09/28/00	<2	<5.5	<3	<5	<1.5	<2	<6.5	<13	<2.5	<6.5	<5.5	<2.5	<1.5	<2	<6	<6.5	<1	<1	0.89	<1.04	750	51
	12/20/00	<2	<5.5	<3	<5	<1.5	<2	0.64	<13	<2.5	<6.5	<5.5	<2.5	<1.5	<2	<6	<6.5	<1	<1	1.4	<1	440	<10
CEF-103-SMW04	**03/20/00**	2.8	<5.5	87	280	<1.5	<2	410	<13	130	<6.5	<5.5	43	<1.5	54	89	40	<1	<1	210	58.2	8600	<10
	09/28/00	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/20/00	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CEF-103-SMW05	**03/20/00**	<2	<5.5	<3	<5	<1.5	5.5	<6.5	<13	130	<6.5	<5.5	<2.5	<1.5	<2	<2	2.1	<1	<1	9.8	3.7	11000	25
	09/28/00	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/20/00	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CEF-103-SMW06	**03/20/00**	<2	<5.5	17	24	<1.5	<2	55	<13	16	<6.5	<5.5	8.7	1.6	8.9	2.2	3.4	<1	<1	22	8.9	660	33
	09/28/00	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/20/00	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CEF-103-SMW07	**03/20/00**	<2	<5.5	<3	2.2	<1.5	<2	<6.5	<13	<2.5	<6.5	<5.5	<2.5	1.6	<2	<6	<6.5	<1	<1	<2	<1.0	720	13
	09/28/00	<2	<5.5	<3	<5	<1.5	<2	<6.5	<13	<2.5	<6.5	<5.5	<2.5	<1.5	<2	<6	<6.5	<1	<1	0.72	<1.04	730	86
	12/20/00	<2	<5.5	<3	<5	<1.5	<2	<6.5	<13	<2.5	<6.5	<5.5	<2.5	<1.5	<2	<6	<6.5	<1	<1	1.1	<1	670	170

TABLE 3-5 (CONTINUED)
Groundwater Analytical Results

	Sample Date	Benzene	Toluene	Ethylbenzene	Xylenes (total)	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane	1,3,5-Trimethylbenzene	Chloromethane	Hexachlorobutadiene	Isopropylbenzene	Methylene Chloride	n-Propylbenzene	p-Isopropyltoluene	sec-Butylbenzene	1- Methylnaphthalene	2-Methylnaphthalene	Naphthtalene (by EPA Method 8021)	Naphthalene (by EPA Method 8310)	Petroleum Range Org (PRO)	Lead
CEF-103-SMW08	**03/20/00**	<2	<5.5	<3	2.3	<1.5	<2	<6.5	<13	<2.5	<6.5	<5.5	<2.5	<1.5	<2	<6	<6.5	<1	<1	<2	<1.0	540	42
	09/28/00	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/20/00	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CEF-103-SMW09	**03/20/00**	<2	<5.5	<3	1.1	<1.5	<2	<6.5	<13	<2.5	<6.5	<5.5	<2.5	1.2	<2	<6	<6.5	<1	<1	<2	<1.0	700	24
	09/28/00	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/20/00	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CEF-103-SMW10	**03/20/00**	<2	<5.5	<3	2.7	<1.5	<2	<6.5	<13	<2.5	<6.5	<5.5	<2.5	<1.5	<2	<6	<6.5	<1	<1	<2	<1.0	430	52
	09/28/00	<2	<5.5	<3	<5	<1.5	<2	<6.5	<13	<2.5	<6.5	<5.5	<2.5	<1.5	<2	<6	<6.5	<1	<1	0.63	<1.04	620	240
	12/20/00	<2	<5.5	<3	<5	<1.5	<2	<6.5	<13	<2.5	<6.5	<5.5	<2.5	<1.5	<2	<6	<6.5	<1	<1	1	<1	390	340
CEF-103-SMW11	**03/20/00**	1.9	3.8	51	220	<1.5	<2	250	<13	52	<6.5	<5.5	26	<1.5	28	24	17	<1	<1	96	20.6	3600	54
	09/28/00	1.9	<5.5	2.9	12	<1.5	<2	12	<13	4.1	<6.5	<5.5	1.2	<1.5	1.2	<6	1.2	<1	<1	3.7	2.2	7800	51
	12/20/00	<2	<5.5	20	10	1.23	0.78	87	<13	22	<6.5	<5.5	8	<1.5	8.3	9.6	5.9	6	5	31	11	15000	140
CEF-103-SMW12	**03/20/00**	<2	<5.5	<3	2.3	<1.5	<2	4	<13	1.4	<6.5	<5.5	<2.5	3.7	<2	<6	<6.5	<1	<1	6.3	<1.0	700	74
	09/28/00	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<1	<1	NS	NS	NS	NS
	12/20/00	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<1	<1	NS	NS	NS	NS
CEF-103-DMW01	**03/20/00**	<2	<5.5	<3	1.8	<1.5	<2	<6.5	<13	<2.5	<6.5	<5.5	<2.5	<1.5	<2	<6	<6.5	<1	<1	<2	<1.0	480	<10
	09/28/00	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/20/00	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
GCTL		1	40	30	20	70	70	10	0.2	10	2.7	0.5	0.8	5	---	---	---	20	20	20	20	5000	15
NADSC		100	400	300	200	700	700	100	20	100	270	50	8	500	---	---	---	200	200	200	200	50000	150

= concentration is above groundwater cleanup target levels (GCTLs)

= concentration is above natural attenuation default source criteria (NADSC)
NA = Not Analyzed
NS = Not Sampled

TABLE 3-6
Monitoring Well Field Measurements

Well Identification	Date/Time	pH	Conductivity (mS/cm)	Dissolved O_2 (mg/l)	Temperature (^oC)
CEF-103-SMW-01	03/20/00	6.29	0.915	NM	23.3
	09/28/00	6.87	0.712	2.25	26.4
	12/20/00	6.50	0.520	1.8	21.6
CEF-103-SMW-02	03/20/00	6.09	0.945	NM	22.4
	09/28/00	6.46	0.934	2.07	27.3
	12/20/00	6.61	0.720	2.1	22.4
CEF-103-SMW-03	03/20/00	6.40	0.806	NM	22.6
	09/28/00	5.92	0.665	5.74	26.5
	12/20/00	4.30	0.667	4.42	22.3
CEF-103-SMW-04	03/20/00	6.27	0.758	NM	23.2
	09/28/00	NM	NM	NM	NM
	12/20/00	NM	NM	NM	NM
CEF-103-SMW-05	03/20/00	6.57	1.120	NM	23.1
	09/28/00	NM	NM	NM	NM
	12/20/00	NM	NM	NM	NM
CEF-103-SMW-06	03/20/00	5.95	0.750	NM	20.5
	09/28/00	NM	NM	NM	NM
	12/20/00	NM	NM	NM	NM
CEF-103-SMW-07	03/20/00	5.78	0.940	NM	20.9
	09/28/00	6.88	0.194	3.67	26.2
	12/20/00	6.30	0.210	3.2	20.6
CEF-103-SMW-08	03/20/00	6.23	0.662	NM	21.8
	09/28/00	NM	NM	NM	NM
	12/20/00	NM	NM	NM	NM
CEF-103-SMW-09	03/20/00	5.72	0.823	NM	21.3
	09/28/00	NM	NM	NM	NM
	12/20/00	NM	NM	NM	NM
CEF-103-SMW-10	03/20/00	5.43	0.197	NM	20.7
	09/28/00	5.25	0.350	0.9	25
	12/20/00	4.32	0.380	2.5	19.3
CEF-103-SMW-11	03/20/00	6.33	0.960	NM	22.6
	09/28/00	6.82	0.816	2	27.3
	12/20/00	6.89	1.070	0.11	22.1
CEF-103-SMW-12	03/20/00	5.72	0.615	NM	22.6
	09/28/00	NM	NM	NM	NM
	12/20/00	NM	NM	NM	NM

NM = Not Measured
mS/cm = microseconds per centimeter
mg/L = milligrams per liter
^oC = degrees Celsius

4.0 Conclusions and Recommendations

Out of the five monitoring wells (CEF-103-01, 02, 03, 07, 10 and 11), only one well (CEF-103-11) was found to have contaminant concentrations greater than the GCTL during the December 2000 groundwater sampling event. The concentrations in CEF-103-11 were decreased from the baseline sampling event and were below the Natural Attenuation Default Source Concentrations specified by Chapter 62-777 FAC.

Monitoring wells CEF-103-SMW-04, CEF-103-SMW-05, and CEF-103-SMW-06, all of which exhibited concentrations above the GCTLs during the baseline sampling event, will be sampled after the first year of remediation system operation is complete as part of the annual sampling program. The performance of the remediation system at these locations will be evaluated at that time.

LNAPL was not noted in any monitoring well during the monitoring period.

It is recommended that the remediation system continue to operate. If contaminant concentrations in monitoring well CEF-103-SMW-11 do not continue to decrease below the GCTLs, then extending the air sparge treatment zone to include the CEF-103-SMW-11 area will be evaluated.

5.0 References

Tetra Tech NUS, Inc. TtNUS. August 1999. Remedial Action Plan, A Avenue Jet Fuel Transfer Pipeline and 103rd Street, Naval Air Station Cecil Field, Jacksonville, Florida.

CH2M HILL Constructors, Inc. February 2000. Work Plan Addendum No. 01, 103rd Street and A Avenue Jet Fuel Transfer Pipeline Air Sparge and Soil Vapor Extraction System Installation, Naval Air Station Cecil Field, Jacksonville, Florida.

Appendix A

Laboratory Analytical Reports for Air Samples

(CD only)

SEVERN
TRENT
SERVICES

STL Burlington
Suite 1
208 South Park Drive
Colchester, VT 05446

Tel: 802 655 1203
Fax: 802 655 1248
www.stl-inc.com

SAMPLE DATA SUMMARY PACKAGE

SDG NO: 80293

CCI NAVY RAC PMO
NOV 10 2000

SEVERN
TRENT
SERVICES

STL Burlington
208 South Park Drive
Suite 1
Colchester, VT 05446

Tel: 802 655 1203
Fax: 802 655 1248
www.stl-inc.com

November 6, 2000

Mr. David Fuller
Accura Analytical Laboratories
6017 Financial Drive
Norcross, GA 30071

Re: Laboratory Project No. 20031
Case: 20031; SDG: 80293

Dear Mr. Fuller:

Enclosed are the analytical results of samples received intact by Severn Trent Laboratories on October 23, 2000. Laboratory numbers have been assigned and designated as follows:

Lab ID	Client Sample ID	Sample Date	Sample Matrix
	Received: 10/23/00	ETR No: 80293	
434688	029ACAIA10180005	10/18/00	Air
434689	029ACA2IA10180005	10/18/00	Air
434690	029ACAEA10180005	10/18/00	Air

Method TO-14A Modified-Volatile Organics:
Please note that due to a limitation of characters inherent in the reporting software, some characters of the client identification above were truncated.

The laboratory noted no exceptions to method quality control requirements for this analytical work.

If there are any questions regarding this submittal, please contact Ron Pentkowski at (802) 655-1203.

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This report is sequentially numbered starting with page 001 and ending with page 91e.

SEVERN
TRENT
SERVICES

STL Burlington

I certify that this package is in compliance with the NELAC requirements, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Director or his designee, as verified by the following signature.

Sincerely,

Christopher A. Ouellette
Laboratory Director

RAP/rst
Enclosure

SEVERN
TRENT
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Severn Trent Laboratories, Inc.

SAMPLE DATA SUMMARY PACKAGE

FOR TO-14A

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ACCANA SAMPLE NO.

029ACA2IA101

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80293

Matrix: (soil/water) AIR Lab Sample ID: 434689

Sample wt/vol: 200 (g/mL) ML Lab File ID: 434689

Level: (low/med) LOW Date Received: 10/23/00

% Moisture: not dec. _____ Date Analyzed: 10/30/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-09-2	Methylene Chloride	1.2	
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
1330-20-7	Xylene (m,p)	0.50	U
95-47-6	Xylene (o)	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ACCANA SAMPLE NO.

029ACA2IA101

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80293

Matrix: (soil/water) AIR Lab Sample ID: 434689

Sample wt/vol: 200 (g/mL) ML Lab File ID: 434689

Level: (low/med) LOW Date Received: 10/23/00

% Moisture: not dec. _____ Date Analyzed: 10/30/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ppbv

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ACCANA SAMPLE NO.

029ACAEA1018

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80293

Matrix: (soil/water) AIR Lab Sample ID: 434690

Sample wt/vol: 200 (g/mL) ML Lab File ID: 434690

Level: (low/med) LOW Date Received: 10/23/00

% Moisture: not dec. _____ Date Analyzed: 10/30/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-09-2	Methylene Chloride	0.88	
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
1330-20-7	Xylene (m,p)	0.50	U
95-47-6	Xylene (o)	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ACCANA SAMPLE NO.

029ACAEA1018

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80293

Matrix: (soil/water) AIR Lab Sample ID: 434690

Sample wt/vol: 200 (g/mL) ML Lab File ID: 434690

Level: (low/med) LOW Date Received: 10/23/00

% Moisture: not dec. _____ Date Analyzed: 10/30/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ppbv

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ACCANA SAMPLE NO.

029ACAIA1018

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80293

Matrix: (soil/water) AIR Lab Sample ID: 434688

Sample wt/vol: 200 (g/mL) ML Lab File ID: 434688

Level: (low/med) LOW Date Received: 10/23/00

% Moisture: not dec. _____ Date Analyzed: 10/30/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-09-2	Methylene Chloride	0.94	
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
1330-20-7	Xylene (m,p)	0.50	U
95-47-6	Xylene (o)	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ACCANA SAMPLE NO.

029ACAIA1018

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80293

Matrix: (soil/water) AIR Lab Sample ID: 434688

Sample wt/vol: 200 (g/mL) ML Lab File ID: 434688

Level: (low/med) LOW Date Received: 10/23/00

% Moisture: not dec. _____ Date Analyzed: 10/30/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ppbv

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

STLVT SAMPLE NO.

ABLKE1

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80293

Matrix: (soil/water) AIR Lab Sample ID: ABLKE1

Sample wt/vol: 200 (g/mL) ML Lab File ID: CCB001K

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 10/30/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-09-2	Methylene Chloride	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
1330-20-7	Xylene (m,p)	0.50	U
95-47-6	Xylene (o)	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

STLVT SAMPLE NO.

ABLKE1

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80293

Matrix: (soil/water) AIR Lab Sample ID: ABLKE1

Sample wt/vol: 200 (g/mL) ML Lab File ID: CCB001K

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 10/30/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ppbv

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

STLVT SAMPLE NO.

Y6_ICVLCS

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80293

Matrix: (soil/water) AIR Lab Sample ID: Y6_ICVLCS

Sample wt/vol: 200 (g/mL) ML Lab File ID: CC010Q

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 09/26/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	9.3	
75-01-4	Vinyl Chloride	9.5	
74-83-9	Bromomethane	10	
75-00-3	Chloroethane	10	
75-69-4	Trichlorofluoromethane	10	
75-09-2	Methylene Chloride	9.5	
75-34-3	1,1-Dichloroethane	9.8	
156-59-2	cis-1,2-Dichloroethene	9.8	
67-66-3	Chloroform	9.7	
71-55-6	1,1,1-Trichloroethane	9.6	
56-23-5	Carbon Tetrachloride	9.7	
71-43-2	Benzene	9.8	
107-06-2	1,2-Dichloroethane	9.7	
79-01-6	Trichloroethene	10	
78-87-5	1,2-Dichloropropane	10	
10061-01-5	cis-1,3-Dichloropropene	11	
108-88-3	Toluene	10	
10061-02-6	trans-1,3-Dichloropropene	10	
79-00-5	1,1,2-Trichloroethane	11	
127-18-4	Tetrachloroethene	9.0	
108-90-7	Chlorobenzene	9.4	
100-41-4	Ethylbenzene	10	
1330-20-7	Xylene (total)	29	
100-42-5	Styrene	10	
1330-20-7	Xylene (m,p)	19	
95-47-6	Xylene (o)	9.6	
79-34-5	1,1,2,2-Tetrachloroethane	9.8	
541-73-1	1,3-Dichlorobenzene	9.8	
106-46-7	1,4-Dichlorobenzene	9.7	
95-50-1	1,2-Dichlorobenzene	10	

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

STLVT SAMPLE NO.

E1_LCS

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80293

Matrix: (soil/water) AIR Lab Sample ID: E1_LCS

Sample wt/vol: 200 (g/mL) ML Lab File ID: CC010KQ

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 10/30/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	8.5	
75-01-4	Vinyl Chloride	8.8	
74-83-9	Bromomethane	8.8	
75-00-3	Chloroethane	8.4	
75-69-4	Trichlorofluoromethane	9.3	
75-09-2	Methylene Chloride	9.2	
75-34-3	1,1-Dichloroethane	9.6	
156-59-2	cis-1,2-Dichloroethene	9.7	
67-66-3	Chloroform	9.6	
71-55-6	1,1,1-Trichloroethane	10	
56-23-5	Carbon Tetrachloride	9.8	
71-43-2	Benzene	9.0	
107-06-2	1,2-Dichloroethane	10	
79-01-6	Trichloroethene	9.8	
78-87-5	1,2-Dichloropropane	9.2	
10061-01-5	cis-1,3-Dichloropropene	10	
108-88-3	Toluene	9.5	
10061-02-6	trans-1,3-Dichloropropene	11	
79-00-5	1,1,2-Trichloroethane	9.8	
127-18-4	Tetrachloroethene	8.9	
108-90-7	Chlorobenzene	8.9	
100-41-4	Ethylbenzene	9.9	
1330-20-7	Xylene (total)	28	
100-42-5	Styrene	10	
1330-20-7	Xylene (m,p)	18	
95-47-6	Xylene (o)	9.3	
79-34-5	1,1,2,2-Tetrachloroethane	9.3	
541-73-1	1,3-Dichlorobenzene	9.7	
106-46-7	1,4-Dichlorobenzene	9.6	
95-50-1	1,2-Dichlorobenzene	10	

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80293

Matrix Spike - STLVT Sample No.: Y6_ICVLCS

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
Chloromethane	10		9.3	93	70-130
Vinyl Chloride	10		9.5	95	70-130
Bromomethane	10		10	100	70-130
Chloroethane	10		10	100	70-130
Trichlorofluoromethane	10		10	100	70-130
Methylene Chloride	10		9.5	95	70-130
1,1-Dichloroethane	10		9.8	98	70-130
cis-1,2-Dichloroethene	10		9.8	98	70-130
Chloroform	10		9.7	97	70-130
1,1,1-Trichloroethane	10		9.6	96	70-130
Carbon Tetrachloride	10		9.7	97	70-130
Benzene	10		9.8	98	70-130
1,2-Dichloroethane	10		9.7	97	70-130
Trichloroethene	10		10	100	70-130
1,2-Dichloropropane	10		10	100	70-130
cis-1,3-Dichloropropene	10		11	110	70-130
Toluene	10		10	100	70-130
trans-1,3-Dichloroprope	10		10	100	70-130
1,1,2-Trichloroethane	10		11	110	70-130
Tetrachloroethene	10		9.0	90	70-130
Chlorobenzene	10		9.4	94	70-130
Ethylbenzene	10		10	100	70-130
Styrene	10		10	100	70-130
Xylene (m,p)	20		19	95	70-130
Xylene (o)	10		9.6	96	70-130
1,1,2,2-Tetrachloroetha	10		9.8	98	70-130
1,3-Dichlorobenzene	10		9.8	98	70-130
1,4-Dichlorobenzene	10		9.7	97	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80293

Matrix Spike - STLVT Sample No.: Y6_ICVLCS

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
1,2-Dichlorobenzene	10		10	100	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 29 outside limits

COMMENTS: _____

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80293

Matrix Spike - STLVT Sample No.: E1_LCS

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
Chloromethane	10		8.5	85	70-130
Vinyl Chloride	10		8.8	88	70-130
Bromomethane	10		8.8	88	70-130
Chloroethane	10		8.4	84	70-130
Trichlorofluoromethane	10		9.3	93	70-130
Methylene Chloride	10		9.2	92	70-130
1,1-Dichloroethane	10		9.6	96	70-130
cis-1,2-Dichloroethene	10		9.7	97	70-130
Chloroform	10		9.6	96	70-130
1,1,1-Trichloroethane	10		10	100	70-130
Carbon Tetrachloride	10		9.8	98	70-130
Benzene	10		9.0	90	70-130
1,2-Dichloroethane	10		10	100	70-130
Trichloroethene	10		9.8	98	70-130
1,2-Dichloropropane	10		9.2	92	70-130
cis-1,3-Dichloropropene	10		10	100	70-130
Toluene	10		9.5	95	70-130
trans-1,3-Dichloroprope	10		11	110	70-130
1,1,2-Trichloroethane	10		9.8	98	70-130
Tetrachloroethene	10		8.9	89	70-130
Chlorobenzene	10		8.9	89	70-130
Ethylbenzene	10		9.9	99	70-130
Styrene	10		10	100	70-130
Xylene (m,p)	20		18	90	70-130
Xylene (o)	10		9.3	93	70-130
1,1,2,2-Tetrachloroetha	10		9.3	93	70-130
1,3-Dichlorobenzene	10		9.7	97	70-130
1,4-Dichlorobenzene	10		9.6	96	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80293

Matrix Spike - STLVT Sample No.: E1_LCS

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
1,2-Dichlorobenzene	10		10	100	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 29 outside limits

COMMENTS:

FORM 4
VOLATILE METHOD BLANK SUMMARY

STLVT SAMPLE NO.

ABLKE1

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80293

Lab File ID: CCB001K Lab Sample ID: ABLKE1

Date Analyzed: 10/30/00 Time Analyzed: 1113

GC Column: DB-1 ID: 0.35 (mm) Heated Purge: (Y/N) N

Instrument ID: W

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	STLVT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	E1_LCS	E1_LCS	CC010KQ	1041
02	029ACAIA1018	434688	434688	1343
03	029ACA2IA101	434689	434689	1418
04	029ACAEA1018	434690	434690	1504
05				
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COMMENTS:

FORM IV VOA

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80293

Lab File ID: CC001P BFB Injection Date: 09/26/00

Instrument ID: W BFB Injection Time: 0724

GC Column: DB-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	19.3
75	30.0 - 66.0% of mass 95	44.0
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.2 (0.4)1
174	50.0 - 120.0% of mass 95	67.5
175	4.0 - 9.0% of mass 174	4.8 (7.1)1
176	93.0 - 101.0% of mass 174	64.8 (96.0)1
177	5.0 - 9.0% of mass 176	4.5 (7.0)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	ASTD005	ASTD005	CC005	09/26/00	0814
02	ASTD010	ASTD010	CC010	09/26/00	0844
03	ASTD020	ASTD020	CC020	09/26/00	0915
04	ASTD040	ASTD040	CC040	09/26/00	0948
05	ASTD0005	ASTD0005	CC0005I2	09/26/00	1026
06	Y6_ICVLCS	Y6_ICVLCS	CC010Q	09/26/00	1154
07					
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FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80293

Lab File ID: CC011P BFB Injection Date: 10/30/00

Instrument ID: W BFB Injection Time: 0947

GC Column: DB-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	21.3
75	30.0 - 66.0% of mass 95	48.0
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	67.8
175	4.0 - 9.0% of mass 174	5.0 (7.4)1
176	93.0 - 101.0% of mass 174	65.6 (96.8)1
177	5.0 - 9.0% of mass 176	4.3 (6.5)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	ASTD010	ASTD010	CC010K	10/30/00	1009
02	E1_LCS	E1_LCS	CC010KQ	10/30/00	1041
03	ABLKE1	ABLKE1	CCB001K	10/30/00	1113
04	029ACAIA1018	434688	434688	10/30/00	1343
05	029ACA2IA101	434689	434689	10/30/00	1418
06	029ACAEA1018	434690	434690	10/30/00	1504
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FORM V VOA

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80293

Instrument ID: W Calibration Date(s): 09/26/00 09/26/00

Heated Purge: (Y/N) N Calibration Time(s): 0814 1026

GC Column: DB-1 ID: 0.35 (mm)

LAB FILE ID: RRF0.5=CC0005I2 RRF5 =CC005
RRF10 =CC010 RRF20 =CC020 RRF40 =CC040

COMPOUND	RRF0.5	RRF5	RRF10	RRF20	RRF40	$\overline{RRF}$	% RSD
Chloromethane *	0.920	0.665	0.592	0.587	0.540	0.661	22.9*
Vinyl Chloride	0.929	0.741	0.680	0.667	0.611	0.726	16.9
Bromomethane	1.306	0.991	0.885	0.781	0.801	0.953	22.5
Chloroethane	0.552	0.449	0.397	0.398	0.370	0.433	16.7
Trichlorofluoromethane	3.208	2.202	1.996	1.957	1.850	2.243	24.7
Methylene Chloride	1.475	0.911	0.840	0.816	0.792	0.967	29.8
1,1-Dichloroethane *	2.196	1.583	1.408	1.388	1.317	1.578	22.7*
cis-1,2-Dichloroethene	1.457	1.333	1.195	1.032	1.007	1.205	16.0
Chloroform	2.793	2.182	1.974	1.767	1.690	2.081	21.2
1,1,1-Trichloroethane	2.494	2.035	1.837	1.671	1.573	1.922	19.0
Carbon Tetrachloride	0.586	0.434	0.386	0.398	0.366	0.434	20.4
Benzene	0.776	0.680	0.600	0.527	0.494	0.615	18.6
1,2-Dichloroethane	1.809	1.399	1.301	1.174	1.115	1.360	20.2
Trichloroethene	0.350	0.317	0.272	0.226	0.216	0.276	20.9
1,2-Dichloropropane	0.300	0.259	0.230	0.171	0.165	0.225	25.8
cis-1,3-Dichloropropene	0.336	0.325	0.302	0.261	0.260	0.297	11.9
Toluene	0.468	0.517	0.446	0.362	0.327	0.424	18.4
trans-1,3-Dichloropropene	0.248	0.216	0.210	0.181	0.187	0.208	12.8
1,1,2-Trichloroethane	0.307	0.277	0.239	0.170	0.155	0.230	28.6
Tetrachloroethene	0.417	0.390	0.339	0.336	0.294	0.355	13.7
Chlorobenzene *	0.753	0.658	0.566	0.505	0.482	0.593	19.0*
Ethylbenzene	1.050	1.130	0.978	0.779	0.838	0.955	15.2
Xylene (total)	1.206	1.220	1.065	0.978	0.995	1.093	10.5
Styrene	0.360	0.508	0.480	0.457	0.449	0.451	12.4
Xylene (m,p)	0.404	0.412	0.358	0.326	0.333	0.367	10.8
Xylene (o)	0.397	0.397	0.348	0.327	0.328	0.359	9.8
1,1,2,2-Tetrachloroethane	0.800	0.677	0.580	0.491	0.515	0.613	20.8
1,3-Dichlorobenzene	0.624	0.593	0.567	0.553	0.530	0.573	6.4
1,4-Dichlorobenzene	0.641	0.519	0.475	0.470	0.457	0.512	14.8
1,2-Dichlorobenzene	0.431	0.458	0.428	0.436	0.419	0.434	3.4

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80293

Instrument ID: W Calibration Date: 10/30/00 Time: 1009

Lab File ID: CC010K Init. Calib. Date(s): 09/26/00 09/26/00

Heated Purge: (Y/N) N Init. Calib. Times: 0814 1026

GC Column: DB-1 ID: 0.35 (mm)

COMPOUND	$\overline{RRF}$	RRF10	MIN RRF	%D	MAX %D	
Chloromethane	0.661	0.602	0.1	8.9	30.0	
Vinyl Chloride	0.726	0.683	0.01	5.9	30.0	
Bromomethane	0.953	0.919	0.01	3.6	30.0	
Chloroethane	0.433	0.383	0.01	11.5	30.0	
Trichlorofluoromethane	2.243	2.353	0.01	4.9	30.0	
Methylene Chloride	0.967	0.940	0.01	2.8	30.0	
1,1-Dichloroethane	1.578	1.655	0.1	4.9	30.0	
cis-1,2-Dichloroethene	1.205	1.272	0.01	5.6	30.0	
Chloroform	2.081	2.159	0.01	3.7	30.0	
1,1,1-Trichloroethane	1.922	2.132	0.01	10.9	30.0	
Carbon Tetrachloride	0.434	0.472	0.01	8.8	30.0	
Benzene	0.615	0.604	0.01	1.8	30.0	
1,2-Dichloroethane	1.360	1.502	0.01	10.4	30.0	
Trichloroethene	0.276	0.297	0.01	7.6	30.0	
1,2-Dichloropropane	0.225	0.228	0.01	1.3	30.0	
cis-1,3-Dichloropropene	0.297	0.357	0.01	20.2	30.0	
Toluene	0.424	0.446	0.01	5.2	30.0	
trans-1,3-Dichloropropene	0.208	0.272	0.01	30.8	30.0	<-
1,1,2-Trichloroethane	0.230	0.248	0.01	7.8	30.0	
Tetrachloroethene	0.355	0.345	0.01	2.8	30.0	
Chlorobenzene	0.593	0.576	0.3	2.9	30.0	
Ethylbenzene	0.955	1.027	0.01	7.5	30.0	
Xylene (total)	1.093	1.118	0.01	2.3	30.0	
Styrene	0.451	0.495	0.01	9.8	30.0	
Xylene (m,p)	0.367	0.374	0.01	1.9	30.0	
Xylene (o)	0.359	0.370	0.01	3.1	30.0	
1,1,2,2-Tetrachloroethane	0.613	0.616	0.01	0.5	30.0	
1,3-Dichlorobenzene	0.573	0.602	0.01	5.1	30.0	
1,4-Dichlorobenzene	0.512	0.513	0.01	0.2	30.0	
1,2-Dichlorobenzene	0.434	0.473	0.01	9.0	30.0	

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80293

Lab File ID (Standard): CC010K Date Analyzed: 10/30/00

Instrument ID: W Time Analyzed: 1009

GC Column: DB-1 ID: 0.35 (mm) Heated Purge: (Y/N) N

		IS1(BCM) AREA #	RT #	IS2(CBZ) AREA #	RT #	IS3(DFB) AREA #	RT #
	12 HOUR STD	263512	7.62	1344236	11.84	1238524	8.96
	UPPER LIMIT	632429	7.95	3226166	12.17	2972458	9.29
	LOWER LIMIT	105405	7.29	537694	11.51	495410	8.63
	STLVT SAMPLE NO.						
01	E1_LCS	263535	7.62	1343356	11.84	1250193	8.96
02	ABLKE1	271817	7.59	1356799	11.84	1273746	8.94
03	029ACAIA1018	253293	7.64	1242372	11.84	1200279	8.97
04	029ACA2IA101	266771	7.62	1313754	11.84	1243992	8.96
05	029ACAEA1018	246720	7.61	1202281	11.84	1168255	8.96
06							
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IS1 (BCM) = Bromochloromethane
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DFB) = 1,4-Difluorobenzene

AREA UPPER LIMIT = +140% of internal standard area
AREA LOWER LIMIT = - 60% of internal standard area
RT UPPER LIMIT = + 0.33 minutes of internal standard RT
RT LOWER LIMIT = - 0.33 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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Severn Trent Laboratories, Inc.

NARRATIVE

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NOV 10 2000

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STL Burlington
208 South Park Drive
Suite 1
Colchester, VT 05446

Tel: 802 655 1203
Fax: 802 655 1248
www.stl-inc.com

November 6, 2000

Mr. David Fuller
Accura Analytical Laboratories
6017 Financial Drive
Norcross, GA 30071

Re: Laboratory Project No. 20031
Case: 20031; SDG: 80293

Dear Mr. Fuller:

Enclosed are the analytical results of samples received intact by Severn Trent Laboratories on October 23, 2000. Laboratory numbers have been assigned and designated as follows:

Lab ID	Client Sample ID	Sample Date	Sample Matrix
	Received: 10/23/00	ETR No: 80293	
434688	029ACAIA10180005	10/18/00	Air
434689	029ACA2IA10180005	10/18/00	Air
434690	029ACAEA10180005	10/18/00	Air

Method TO-14A Modified-Volatile Organics:
Please note that due to a limitation of characters inherent in the reporting software, some characters of the client identification above were truncated.

The laboratory noted no exceptions to method quality control requirements for this analytical work.

If there are any questions regarding this submittal, please contact Ron Pentkowski at (802) 655-1203.

This report shall not be reproduced, except in full, without the written approval of the laboratory.
This report is sequentially numbered starting with page 001 and ending with page 96.

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I certify that this package is in compliance with the NELAC requirements, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Director or his designee, as verified by the following signature.

Sincerely,

Christopher A. Ouellette
Laboratory Director

RAP/rst
Enclosure

SEVERN TRENT SERVICES

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The following Qualifiers may be used when reporting any Organic parameters analyzed by Gas Chromatography/mass Spectometry (GCMS). Any additional qualifiers used in the reports will be described in the case narrative. These flags are based on the EPA Contract Laboratory Program statement of work.

GC/MS Qualifiers

A- The reported Tentatively Identified Compound (TIC) is a suspected Aldol-condensation product.

B- The reported analyte was detected in the associated method blank as well as the sample.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor. This flag alerts data users that any discrepancies between the concentrations reported for the dilutions may be due to dilution of the sample or extract. It additionally indicates that spike recoveries may have been diluted below quantifiable levels.

E- Compound quantitation is above the instrument's calibration range for this analysis.

J - Indicates an estimated value. This flag is used when the result is less than the reporting limit, but > ½ reporting limit.

U- Indicates compound was analyzed for but not detected above the reporting limit.

X,Y,Z - Laboratory defined flags. These flags must be fully described, and such description attached to the Sample Data Summary Package and the case Narrative. Begin by using "X" and go on to "Y" as necessary. These flags may also be used to combine several flags, as needed.

STL Burlington is a part of Severn Trent Laboratories, Inc.

115 Perimeter Center Place, Suite 700
Atlanta, GA 30346-1278
Tel No (770) 604-9182 , Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER
154282-05

PROJECT NAME	PROJECT NUMBER	LAB NAME AND CONTACT	FAX AND MAIL REPORTS/EDD TO RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No , and Fax No)
N.A.S Cecil Field 103rd Street	154282	Severn Trent Laboratories/ Ron Pentkowski	Dave Accura Analytical Laboratory	6017 Financial Drive Norcross, GA 30071 (770) 449-8800 Fax:(770) 449-5477
PROJECT PHASE/SITE/TASK	CTO OR DO NUMBER	LAB PO NUMBER	FAX AND MAIL REPORTS/EDD TO RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No , and Fax No)
103rd Street Monthly Air	0029	1760	David Garrity / J.A Jones Env. Services	6219 Authority Ave. Building 1 Jacksonville, FL 32215 (904) 7774812 FAX: (904) 7774262
PROJECT CONTACT	PROJECT TEL NO AND FAX NO	LAB TEL NO AND FAX NO	FAX AND MAIL REPORTS/EDD TO RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No , and Fax No)
David Garrity	Ph:(904)777-4812 Fax:(904) 777-4262	Ph:(802) 655-1203	Jeff Wilmoth / CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 Ext.561 FAX:604-9282

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	ANALYSES REQUIRED (Include Method Numbers): Volatiles by 18 / TO 14										SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	029-ACA-I-A-1018-00-05	Pre Carbon Units	A	10/18/00	11:05	III/B	7	1										Grab	Summa Canister	
2	029-ACA2-I-A-1018-00-05	Mid Carbon Units	A	10/18/00	11:10	III/B	7	1										Grab	Summa Canister	003
3	029-ACA-E-A-1018-00-05	Post Carbon Units	A	10/18/00	11:15	III/B	7	1										Grab	Summa Canister	004
4																				
5																				
6																				
7																				
8																				
9																				
10																				

SAMPLER(S) AND COMPANY: (please print)
Randy Dumaop / David Garrity
J.A. Jones Environmental Services

COURIER AND SHIPPING NUMBER
Federal Express TRK# 790384362472

SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT

RELINQUISHED BY: Printed Name and Signature	DATE	TIME	RECEIVED BY: Printed Name and Signature	DATE	TIME
R.Dumaop	10/19/00	11:00	Federal Express	10/19/00	11:00
Printed Name and Signature			Printed Name and Signature: Jack L Dustin		
Printed Name and Signature			Printed Name and Signature	10/20/00	0900

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METHOD TO-14A
VOLATILE ORGANIC ANALYSIS

QC SUMMARY

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80293

Matrix Spike - STLVT Sample No.: Y6_ICVLCS

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
Chloromethane	10		9.3	93	70-130
Vinyl Chloride	10		9.5	95	70-130
Bromomethane	10		10	100	70-130
Chloroethane	10		10	100	70-130
Trichlorofluoromethane	10		10	100	70-130
Methylene Chloride	10		9.5	95	70-130
1,1-Dichloroethane	10		9.8	98	70-130
cis-1,2-Dichloroethene	10		9.8	98	70-130
Chloroform	10		9.7	97	70-130
1,1,1-Trichloroethane	10		9.6	96	70-130
Carbon Tetrachloride	10		9.7	97	70-130
Benzene	10		9.8	98	70-130
1,2-Dichloroethane	10		9.7	97	70-130
Trichloroethene	10		10	100	70-130
1,2-Dichloropropane	10		10	100	70-130
cis-1,3-Dichloropropene	10		11	110	70-130
Toluene	10		10	100	70-130
trans-1,3-Dichloroprope	10		10	100	70-130
1,1,2-Trichloroethane	10		11	110	70-130
Tetrachloroethene	10		9.0	90	70-130
Chlorobenzene	10		9.4	94	70-130
Ethylbenzene	10		10	100	70-130
Styrene	10		10	100	70-130
Xylene (m,p)	20		19	95	70-130
Xylene (o)	10		9.6	96	70-130
1,1,2,2-Tetrachloroetha	10		9.8	98	70-130
1,3-Dichlorobenzene	10		9.8	98	70-130
1,4-Dichlorobenzene	10		9.7	97	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS:

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80293

Matrix Spike - STLVT Sample No.: Y6_ICVLCS

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
1,2-Dichlorobenzene	10		10	100	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 29 outside limits

COMMENTS: _____

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80293

Matrix Spike - STLVT Sample No.: E1_LCS

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
Chloromethane	10		8.5	85	70-130
Vinyl Chloride	10		8.8	88	70-130
Bromomethane	10		8.8	88	70-130
Chloroethane	10		8.4	84	70-130
Trichlorofluoromethane	10		9.3	93	70-130
Methylene Chloride	10		9.2	92	70-130
1,1-Dichloroethane	10		9.6	96	70-130
cis-1,2-Dichloroethene	10		9.7	97	70-130
Chloroform	10		9.6	96	70-130
1,1,1-Trichloroethane	10		10	100	70-130
Carbon Tetrachloride	10		9.8	98	70-130
Benzene	10		9.0	90	70-130
1,2-Dichloroethane	10		10	100	70-130
Trichloroethene	10		9.8	98	70-130
1,2-Dichloropropane	10		9.2	92	70-130
cis-1,3-Dichloropropene	10		10	100	70-130
Toluene	10		9.5	95	70-130
trans-1,3-Dichloroprope	10		11	110	70-130
1,1,2-Trichloroethane	10		9.8	98	70-130
Tetrachloroethene	10		8.9	89	70-130
Chlorobenzene	10		8.9	89	70-130
Ethylbenzene	10		9.9	99	70-130
Styrene	10		10	100	70-130
Xylene (m,p)	20		18	90	70-130
Xylene (o)	10		9.3	93	70-130
1,1,2,2-Tetrachloroetha	10		9.3	93	70-130
1,3-Dichlorobenzene	10		9.7	97	70-130
1,4-Dichlorobenzene	10		9.6	96	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS:

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80293

Matrix Spike - STLVT Sample No.: E1_LCS

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
1,2-Dichlorobenzene	10		10	100	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 29 outside limits

COMMENTS:

FORM 4
VOLATILE METHOD BLANK SUMMARY

STLVT SAMPLE NO.

ABLKE1

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80293

Lab File ID: CCB001K Lab Sample ID: ABLKE1

Date Analyzed: 10/30/00 Time Analyzed: 1113

GC Column: DB-1 ID: 0.35 (mm) Heated Purge: (Y/N) N

Instrument ID: W

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	STLVT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	E1_LCS	E1_LCS	CC010KQ	1041
02	029ACAIA1018	434688	434688	1343
03	029ACA2IA101	434689	434689	1418
04	029ACAEA1018	434690	434690	1504
05				
06				
07				
08				
09				
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COMMENTS:

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80293

Lab File ID: CC001P BFB Injection Date: 09/26/00

Instrument ID: W BFB Injection Time: 0724

GC Column: DB-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	19.3
75	30.0 - 66.0% of mass 95	44.0
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.2 (0.4)1
174	50.0 - 120.0% of mass 95	67.5
175	4.0 - 9.0% of mass 174	4.8 (7.1)1
176	93.0 - 101.0% of mass 174	64.8 (96.0)1
177	5.0 - 9.0% of mass 176	4.5 (7.0)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	ASTD005	ASTD005	CC005	09/26/00	0814
02	ASTD010	ASTD010	CC010	09/26/00	0844
03	ASTD020	ASTD020	CC020	09/26/00	0915
04	ASTD040	ASTD040	CC040	09/26/00	0948
05	ASTD0005	ASTD0005	CC0005I2	09/26/00	1026
06	Y6_ICVLCS	Y6_ICVLCS	CC010Q	09/26/00	1154
07					
08					
09					
10					
11					
12					
13					
14					
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16					
17					
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19					
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21					
22					

FORM V VOA

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80293

Lab File ID: CC011P BFB Injection Date: 10/30/00

Instrument ID: W BFB Injection Time: 0947

GC Column: DB-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	21.3
75	30.0 - 66.0% of mass 95	48.0
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	67.8
175	4.0 - 9.0% of mass 174	5.0 (7.4)1
176	93.0 - 101.0% of mass 174	65.6 (96.8)1
177	5.0 - 9.0% of mass 176	4.3 (6.5)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	ASTD010	ASTD010	CC010K	10/30/00	1009
02	E1_LCS	E1_LCS	CC010KQ	10/30/00	1041
03	ABLKE1	ABLKE1	CCB001K	10/30/00	1113
04	029ACAIA1018	434688	434688	10/30/00	1343
05	029ACA2IA101	434689	434689	10/30/00	1418
06	029ACAEA1018	434690	434690	10/30/00	1504
07					
08					
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21					
22					

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80293

Lab File ID (Standard): CC010K Date Analyzed: 10/30/00

Instrument ID: W Time Analyzed: 1009

GC Column: DB-1 ID: 0.35 (mm) Heated Purge: (Y/N) N

		IS1(BCM) AREA #	RT #	IS2(CBZ) AREA #	RT #	IS3(DFB) AREA #	RT #
	12 HOUR STD	263512	7.62	1344236	11.84	1238524	8.96
	UPPER LIMIT	632429	7.95	3226166	12.17	2972458	9.29
	LOWER LIMIT	105405	7.29	537694	11.51	495410	8.63
	STLVT SAMPLE NO.						
01	E1_LCS	263535	7.62	1343356	11.84	1250193	8.96
02	ABLKE1	271817	7.59	1356799	11.84	1273746	8.94
03	029ACAIA1018	253293	7.64	1242372	11.84	1200279	8.97
04	029ACA2IA101	266771	7.62	1313754	11.84	1243992	8.96
05	029ACAEA1018	246720	7.61	1202281	11.84	1168255	8.96
06							
07							
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19							
20							
21							
22							

IS1 (BCM) = Bromochloromethane
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DFB) = 1,4-Difluorobenzene

AREA UPPER LIMIT = +140% of internal standard area
AREA LOWER LIMIT = - 60% of internal standard area
RT UPPER LIMIT = + 0.33 minutes of internal standard RT
RT LOWER LIMIT = - 0.33 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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METHOD TO-14A
VOLATILE ORGANIC ANALYSIS

SUPPORTIVE DOCUMENTATION

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ACCANA SAMPLE NO.

029ACA2IA101

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80293

Matrix: (soil/water) AIR Lab Sample ID: 434689

Sample wt/vol: 200 (g/mL) ML Lab File ID: 434689

Level: (low/med) LOW Date Received: 10/23/00

% Moisture: not dec. _____ Date Analyzed: 10/30/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-09-2	Methylene Chloride	1.2	
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
1330-20-7	Xylene (m,p)	0.50	U
95-47-6	Xylene (o)	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ACCANA SAMPLE NO.

029ACA2IA101

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80293

Matrix: (soil/water) AIR Lab Sample ID: 434689

Sample wt/vol: 200 (g/mL) ML Lab File ID: 434689

Level: (low/med) LOW Date Received: 10/23/00

% Moisture: not dec. _____ Date Analyzed: 10/30/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ppbv

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
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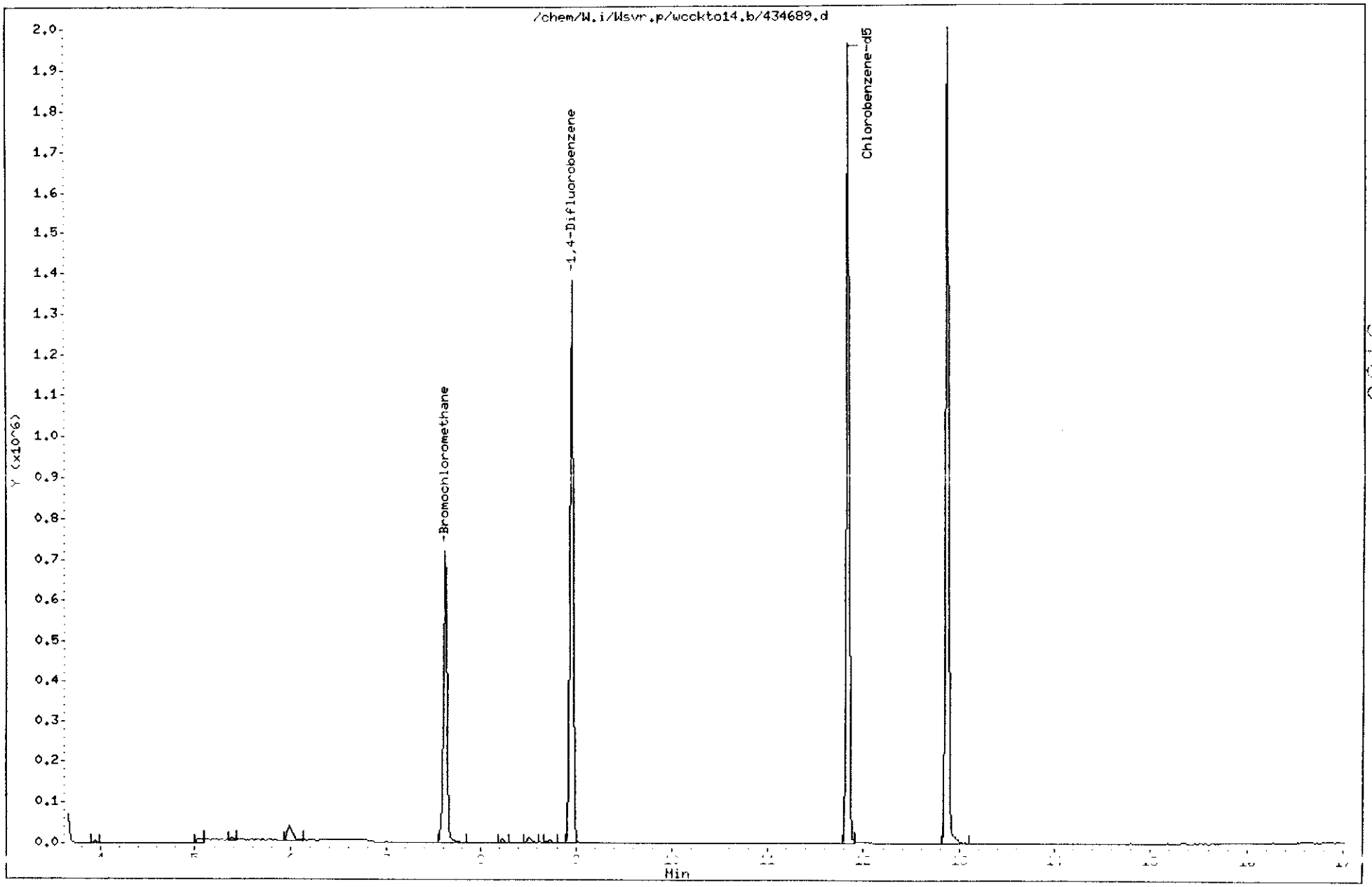
29.					
30.					

Data File: /chem/W.i/Wsvr.p/wcckto14.b/434689.d
Date : 30-OCT-2000 14:18
Client ID: 029ACA2IA101
Sample Info: 434689;029ACA2IA1018;80293;1030E1
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i
Operator: GHH
Column diameter: 0.35



STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcckto14.b/434689.d
Lab Smp Id: 434689 Client Smp ID: 029ACA2IA101
Inj Date : 30-OCT-2000 14:18
Operator : GMM Inst ID: W.i
Smp Info : 434689;029ACA2IA1018;80293;1030E1
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wcckto14.b/ato14.m
Meth Date : 06-Nov-2000 12:30 cmp Quant Type: ISTD
Cal Date : 26-SEP-2000 10:26 Cal File: cc0005i2.d
Als bottle: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA2.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
2 Chloromethane	50	Compound Not Detected.					
4 Vinyl Chloride	62	Compound Not Detected.					
5 Bromomethane	94	Compound Not Detected.					
6 Chloroethane	64	Compound Not Detected.					
7 Trichlorofluoromethane	101	Compound Not Detected.					
9 Methylene Chloride	49	5.983	6.089	(0.785)	31360	1.21585	1.2
11 1,1-Dichloroethane	63	Compound Not Detected.					
12 cis-1,2-Dichloroethene	61	Compound Not Detected.					
* 13 Bromochloromethane	128	7.622	7.698	(1.000)	266771	10.0000	
14 Chloroform	83	Compound Not Detected.					
15 1,2-Dichloroethane	62	Compound Not Detected.					
16 1,1,1-Trichloroethane	97	Compound Not Detected.					
17 Benzene	78	Compound Not Detected.					
18 Carbon Tetrachloride	117	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
*	19 1,4-Difluorobenzene	114	8.957	9.003	(1.000)	1243992	10.0000	
	20 1,2-Dichloropropane	63	Compound Not Detected.					
	21 Trichloroethene	95	Compound Not Detected.					
	22 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	23 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	24 1,1,2-Trichloroethane	83	Compound Not Detected.					
	25 Toluene	92	Compound Not Detected.					
	27 Tetrachloroethene	166	Compound Not Detected.					
*	28 Chlorobenzene-d5	117	11.841	11.841	(1.000)	1313754	10.0000	
	29 Chlorobenzene	112	Compound Not Detected.					
	30 Ethylbenzene	91	Compound Not Detected.					
	31 Xylene (m,p)	106	Compound Not Detected.					
	32 Styrene	104	Compound Not Detected.					
M	33 Xylene (total)	106	Compound Not Detected.					
	34 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	35 Xylene (o)	106	Compound Not Detected.					
	38 1,3-Dichlorobenzene	146	Compound Not Detected.					
	39 1,4-Dichlorobenzene	146	Compound Not Detected.					
	40 1,2-Dichlorobenzene	146	Compound Not Detected.					

STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcckto14.b/434689.d
Lab Smp Id: 434689 Client Smp ID: 029ACA2IA101
Inj Date : 30-OCT-2000 14:18
Operator : GMM Inst ID: W.i
Smp Info : 434689;029ACA2IA1018;80293;1030E1
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wcckto14.b/ato14.m
Meth Date : 05-Nov-2000 15:37 cmp Quant Type: ISTD
Cal Date : 26-SEP-2000 10:26 Cal File: cc0005i2.d
Als bottle: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA.sub
Target Version: 3.50
Processing Host: chemsvr4

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: /chem/W.i/Wsvr.p/wcckto14.b/434689.d

Date : 30-OCT-2000 14:18

Client ID: 029ACA2IA101

Instrument: W.i

Sample Info: 434689;029ACA2IA1018;80293;1030E1

Purge Volume: 200.0

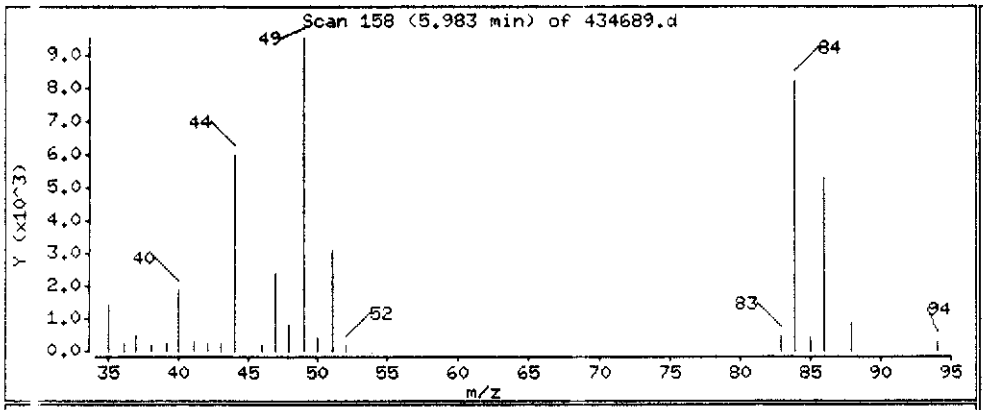
Operator: GMM

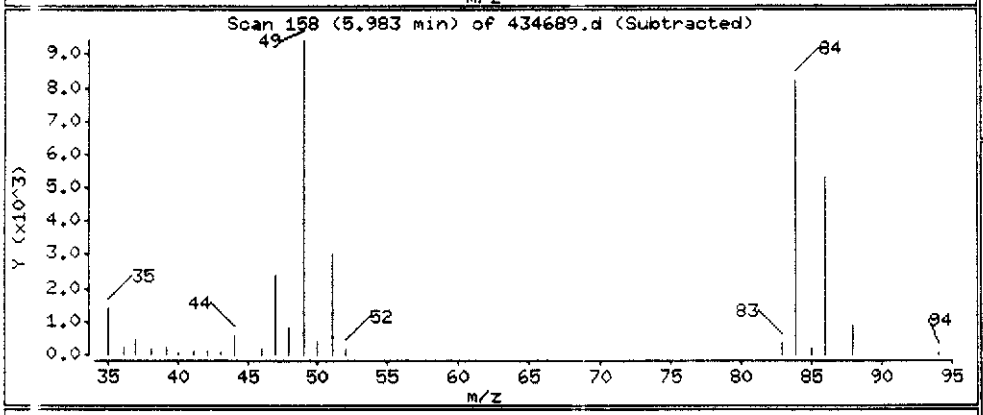
Column phase: DB-1

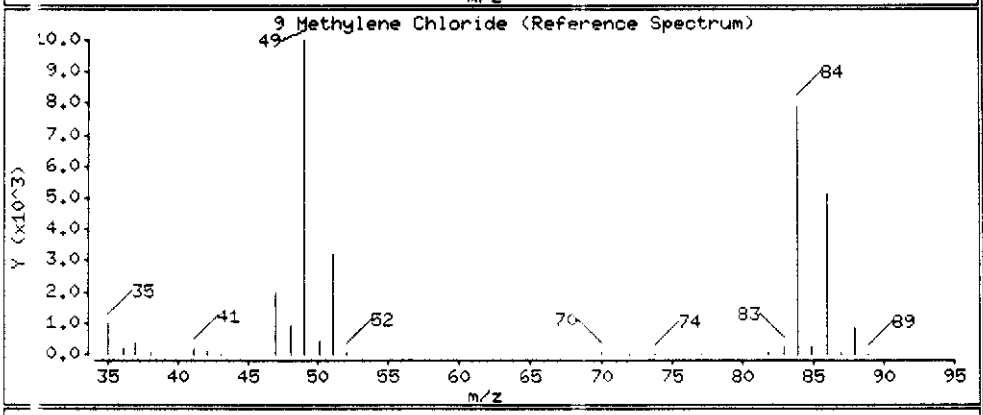
Column diameter: 0.35

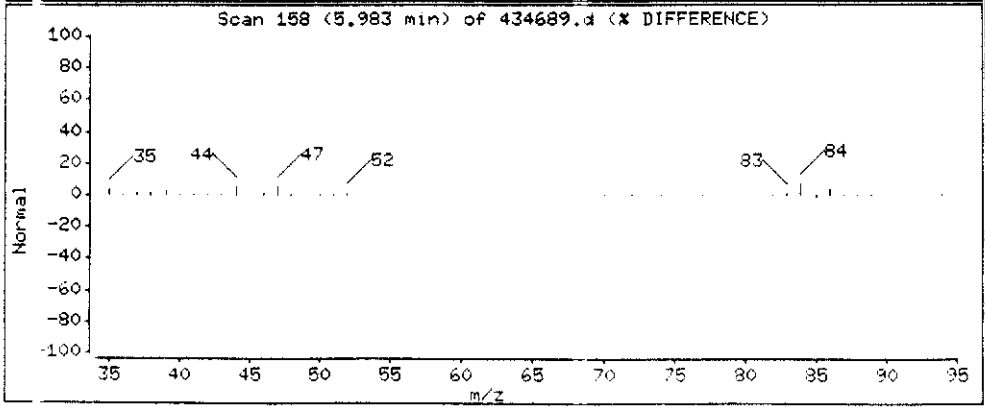
9 Methylene Chloride

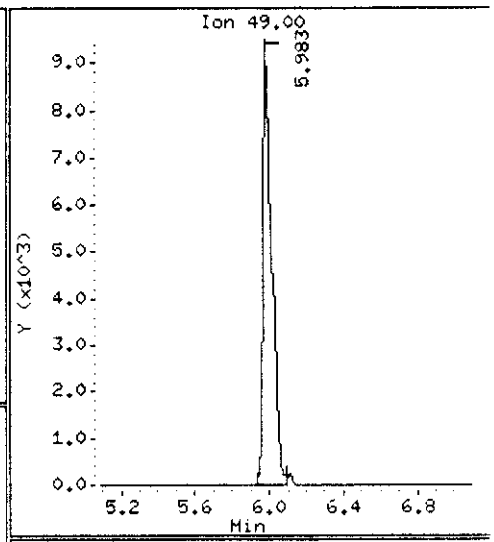
Concentration: 1.2 ppbv

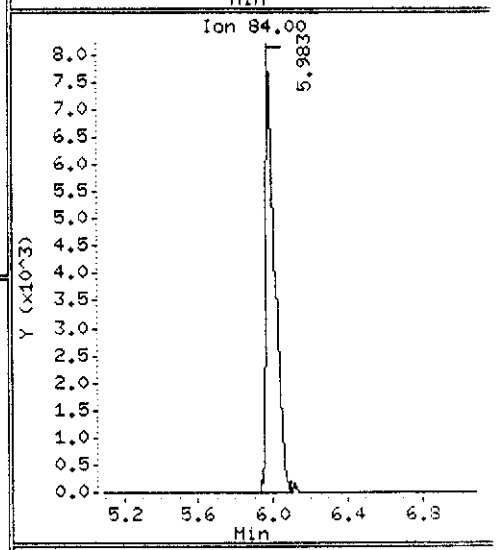


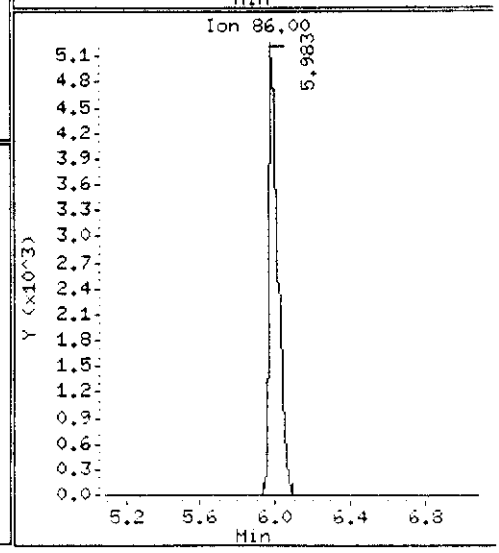












FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ACCANA SAMPLE NO.

029ACAEA1018

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80293

Matrix: (soil/water) AIR Lab Sample ID: 434690

Sample wt/vol: 200 (g/mL) ML Lab File ID: 434690

Level: (low/med) LOW Date Received: 10/23/00

% Moisture: not dec. _____ Date Analyzed: 10/30/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-09-2	Methylene Chloride	0.88	
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
1330-20-7	Xylene (m,p)	0.50	U
95-47-6	Xylene (o)	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ACCANA SAMPLE NO.

029ACAEA1018

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80293

Matrix: (soil/water) AIR Lab Sample ID: 434690

Sample wt/vol: 200 (g/mL) ML Lab File ID: 434690

Level: (low/med) LOW Date Received: 10/23/00

% Moisture: not dec. _____ Date Analyzed: 10/30/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ppbv

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
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27.				
28.				
29.				
30.				

Data File: /chem/W.i/Wsvr.p/wcckto14.b/434690.d

Date : 30-OCT-2000 15:04

Client ID: 029ACAEA1018

Sample Info: 434690;029ACAEA1018;80293;1030E1

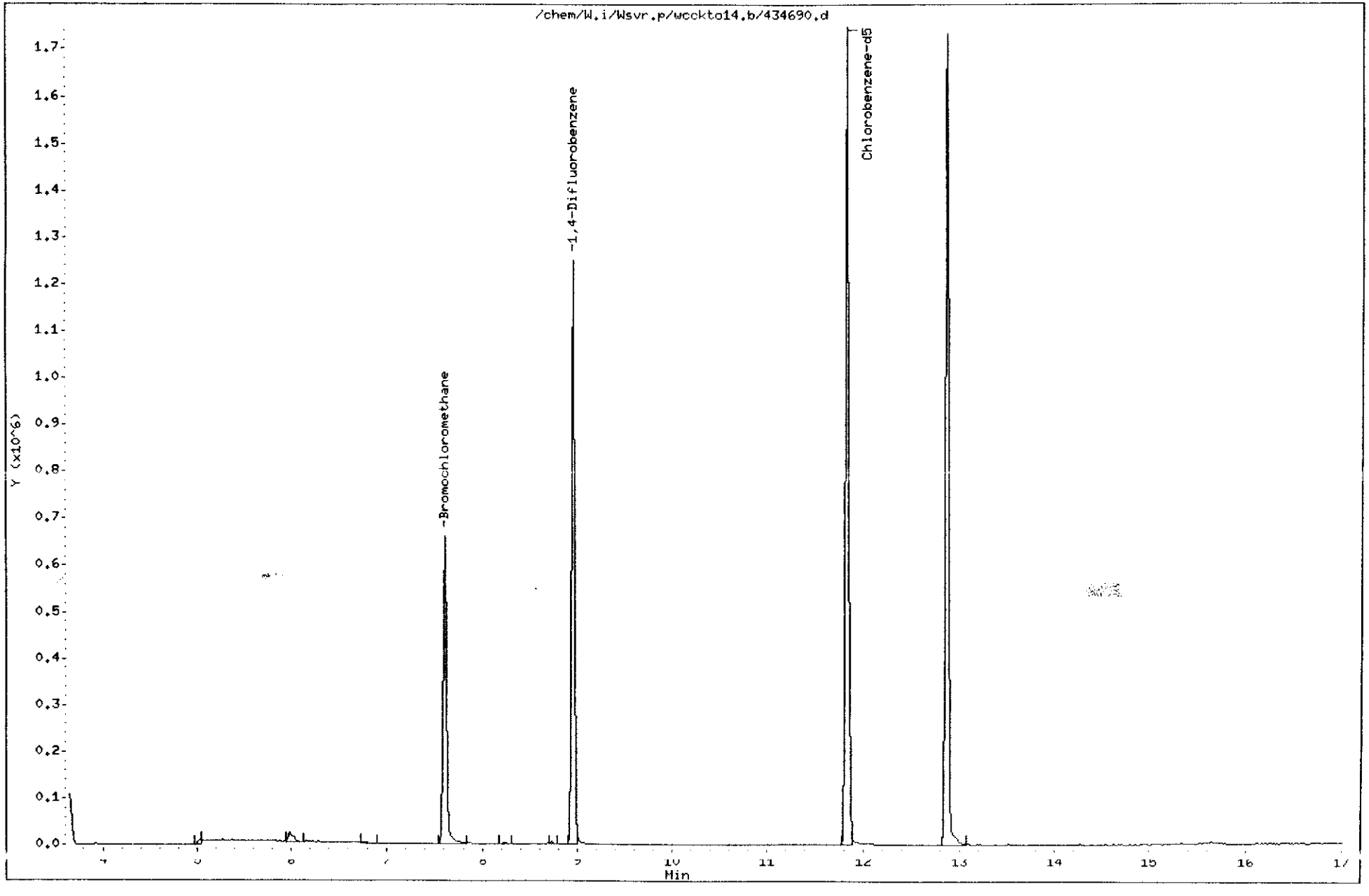
Purge Volume: 200.0

Column phase: DB-1

Instrument: W.i

Operator: GMM

Column diameter: 0.35



0623

STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcckto14.b/434690.d
Lab Smp Id: 434690 Client Smp ID: 029ACAEA1018
Inj Date : 30-OCT-2000 15:04
Operator : GMM Inst ID: W.i
Smp Info : 434690;029ACAEA1018;80293;1030E1
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wcckto14.b/ato14.m
Meth Date : 06-Nov-2000 12:30 cmp Quant Type: ISTD
Cal Date : 26-SEP-2000 10:26 Cal File: cc0005i2.d
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA2.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
		Chloromethane	50	Compound Not Detected.					
		Vinyl Chloride	62	Compound Not Detected.					
		Bromomethane	94	Compound Not Detected.					
		Chloroethane	64	Compound Not Detected.					
		Trichlorofluoromethane	101	Compound Not Detected.					
		Methylene Chloride	49	5.982	6.089	(0.786)	20880	0.87532	0.88
	1	1,1-Dichloroethane	63	Compound Not Detected.					
	1	cis-1,2-Dichloroethene	61	Compound Not Detected.					
*	1	Bromochloromethane	128	7.606	7.698	(1.000)	246720	10.0000	
	1	Chloroform	83	Compound Not Detected.					
	1	1,2-Dichloroethane	62	Compound Not Detected.					
	1	1,1,1-Trichloroethane	97	Compound Not Detected.					
	1	Benzene	78	Compound Not Detected.					
	1	Carbon Tetrachloride	117	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
*	19 1,4-Difluorobenzene	114	8.956	9.003	(1.000)	1168255	10.0000	
	20 1,2-Dichloropropane	63	Compound Not Detected.					
	21 Trichloroethene	95	Compound Not Detected.					
	22 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	23 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	24 1,1,2-Trichloroethane	83	Compound Not Detected.					
	25 Toluene	92	Compound Not Detected.					
	27 Tetrachloroethene	166	Compound Not Detected.					
*	28 Chlorobenzene-d5	117	11.840	11.841	(1.000)	1202281	10.0000	
	29 Chlorobenzene	112	Compound Not Detected.					
	30 Ethylbenzene	91	Compound Not Detected.					
	31 Xylene (m,p)	106	Compound Not Detected.					
	32 Styrene	104	Compound Not Detected.					
M	33 Xylene (total)	106	Compound Not Detected.					
	34 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	35 Xylene (o)	106	Compound Not Detected.					
	38 1,3-Dichlorobenzene	146	Compound Not Detected.					
	39 1,4-Dichlorobenzene	146	Compound Not Detected.					
	40 1,2-Dichlorobenzene	146	Compound Not Detected.					

STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcckto14.b/434690.d
Lab Smp Id: 434690 Client Smp ID: 029ACAEA1018
Inj Date : 30-OCT-2000 15:04
Operator : GMM Inst ID: W.i
Smp Info : 434690;029ACAEA1018;80293;1030E1
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wcckto14.b/ato14.m
Meth Date : 05-Nov-2000 15:37 cmp Quant Type: ISTD
Cal Date : 26-SEP-2000 10:26 Cal File: cc0005i2.d
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA.sub
Target Version: 3.50
Processing Host: chemsvr4

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: /chem/W.i/Wsvr.p/wcckto14.b/434690.d

Date : 30-OCT-2000 15:04

Client ID: 029ACAEA1018

Instrument: W.i

Sample Info: 434690;029ACAEA1018;80293;1030E1

Purge Volume: 200.0

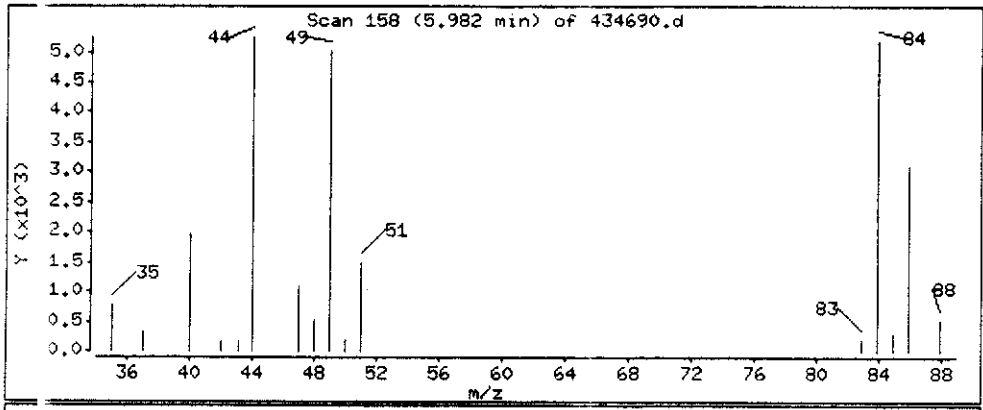
Operator: GMM

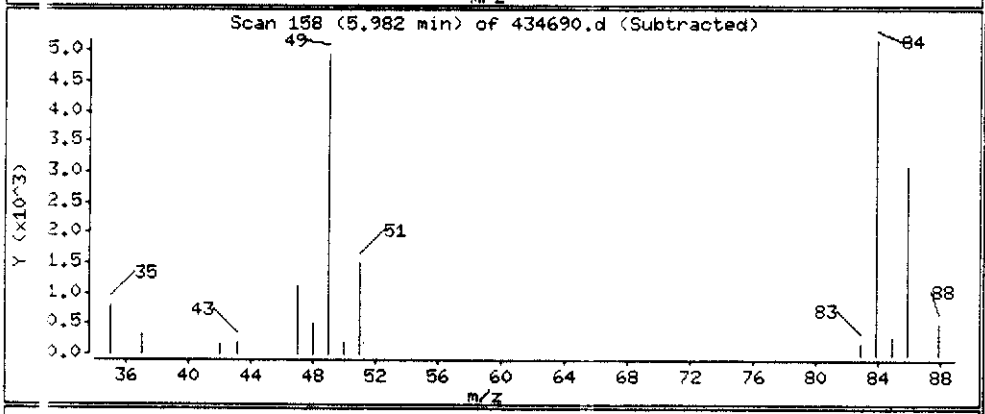
Column phase: DB-1

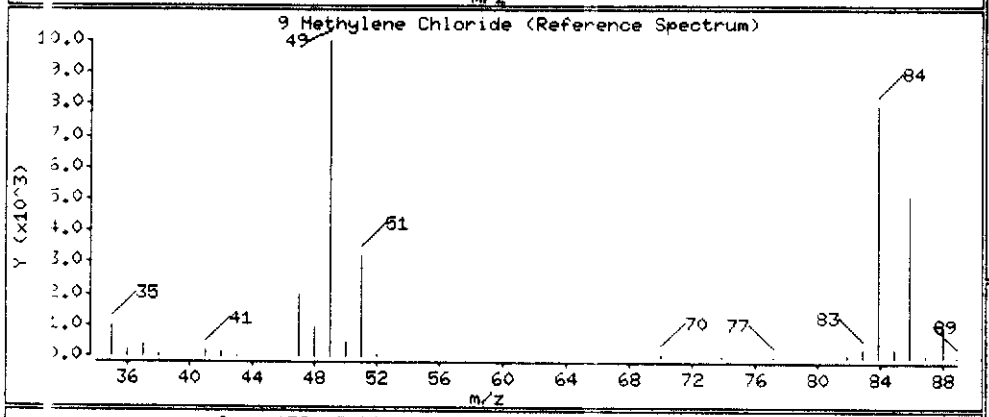
Column diameter: 0.35

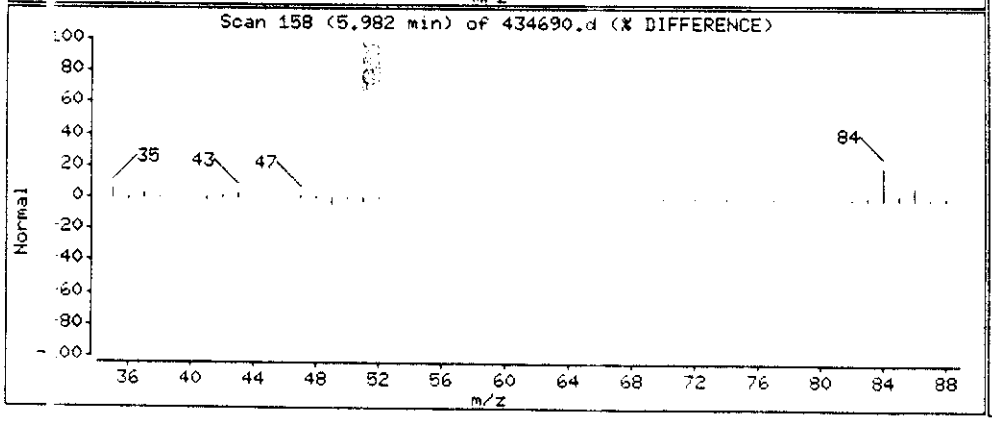
9 Methylene Chloride

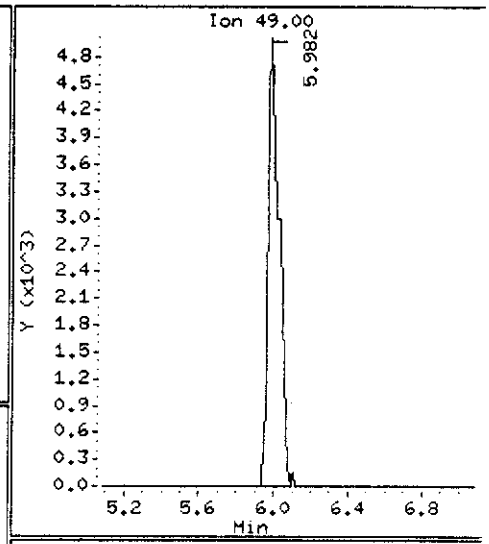
Concentration: 0.88 ppbv

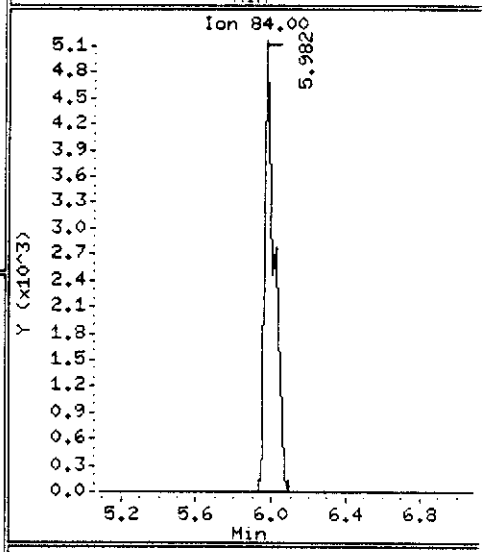


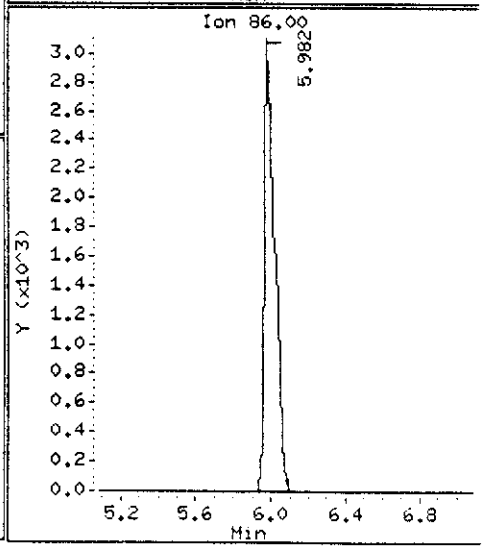












FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ACCANA SAMPLE NO.

029ACAIA1018

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80293

Matrix: (soil/water) AIR Lab Sample ID: 434688

Sample wt/vol: 200 (g/mL) ML Lab File ID: 434688

Level: (low/med) LOW Date Received: 10/23/00

% Moisture: not dec. _____ Date Analyzed: 10/30/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-09-2	Methylene Chloride	0.94	
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
1330-20-7	Xylene (m,p)	0.50	U
95-47-6	Xylene (o)	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ACCANA SAMPLE NO.

029ACAIA1018

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80293

Matrix: (soil/water) AIR Lab Sample ID: 434688

Sample wt/vol: 200 (g/mL) ML Lab File ID: 434688

Level: (low/med) LOW Date Received: 10/23/00

% Moisture: not dec. _____ Date Analyzed: 10/30/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ppbv

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
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21.				
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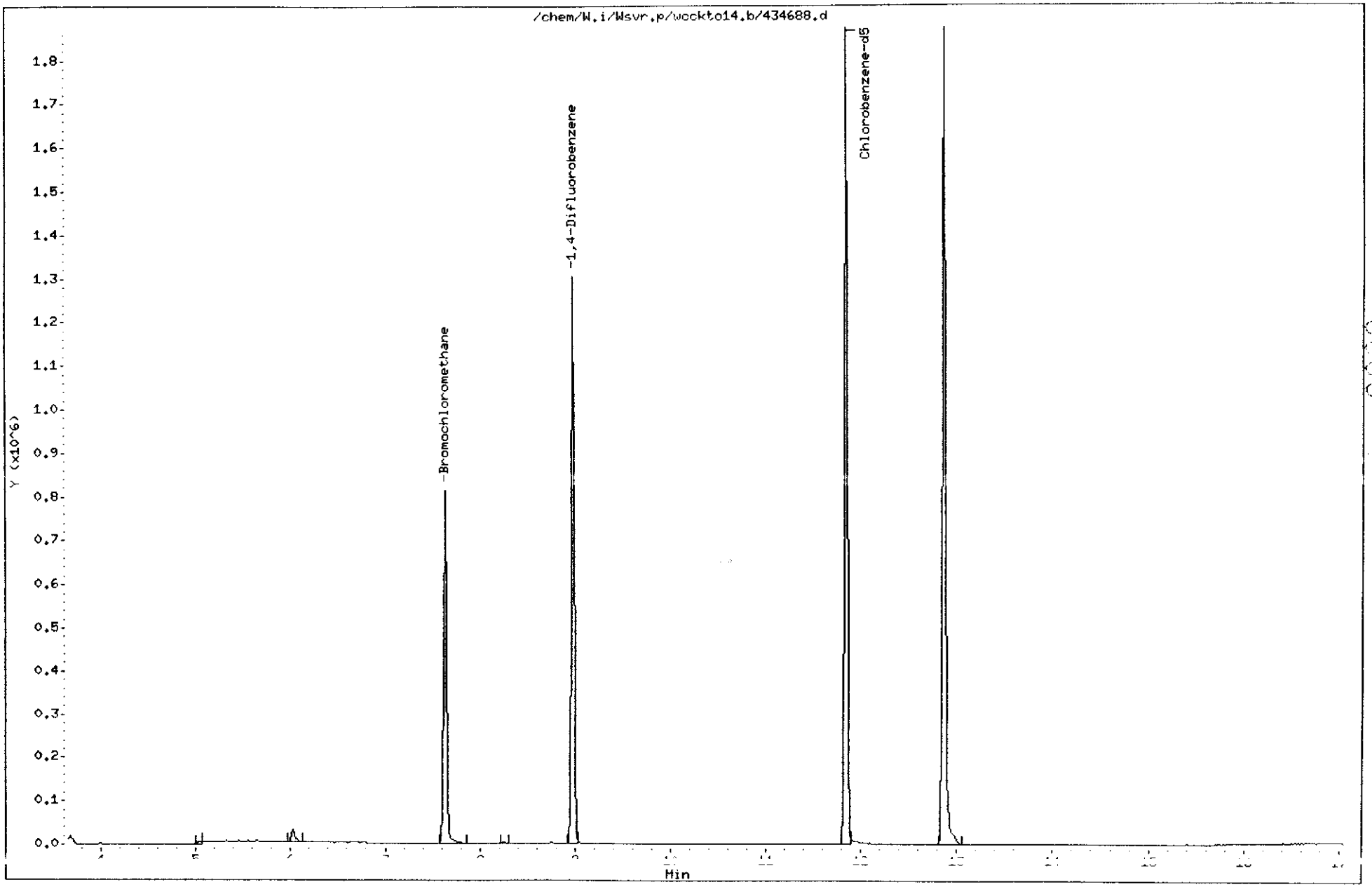
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

Data File: /chem/W.i/Wsvr.p/wockto14.b/434688.d
Date : 30-OCT-2000 13:43
Client ID: 029ACAIA1018
Sample Info: 434688;029ACAIA1018;80293;1030E1
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i
Operator: GMH
Column diameter: 0.35



0030

STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcckto14.b/434688.d
Lab Smp Id: 434688 Client Smp ID: 029ACAIA1018
Inj Date : 30-OCT-2000 13:43
Operator : GMM Inst ID: W.i
Smp Info : 434688;029ACAIA1018;80293;1030E1
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wcckto14.b/ato14.m
Meth Date : 06-Nov-2000 12:30 cmp Quant Type: ISTD
Cal Date : 26-SEP-2000 10:26 Cal File: cc0005i2.d
Als bottle: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA2.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
2 Chloromethane	50	Compound Not Detected.					
4 Vinyl Chloride	62	Compound Not Detected.					
5 Bromomethane	94	Compound Not Detected.					
6 Chloroethane	64	Compound Not Detected.					
7 Trichlorofluoromethane	101	Compound Not Detected.					
9 Methylene Chloride	49	6.028	6.089	(0.789)	23079	0.94240	0.94
1 1,1-Dichloroethane	63	Compound Not Detected.					
2 cis-1,2-Dichloroethene	61	Compound Not Detected.					
* 3 Bromochloromethane	128	7.636	7.698	(1.000)	253293	10.0000	
4 Chloroform	83	Compound Not Detected.					
5 1,2-Dichloroethane	62	Compound Not Detected.					
6 1,1,1-Trichloroethane	97	Compound Not Detected.					
7 Benzene	78	Compound Not Detected.					
8 Carbon Tetrachloride	117	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
*	19 1,4-Difluorobenzene	114	8.972	9.003	(1.000)	1200279	10.0000	
	20 1,2-Dichloropropane	63	Compound Not Detected.					
	21 Trichloroethene	95	Compound Not Detected.					
	22 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	23 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	24 1,1,2-Trichloroethane	83	Compound Not Detected.					
	25 Toluene	92	Compound Not Detected.					
	27 Tetrachloroethene	166	Compound Not Detected.					
*	28 Chlorobenzene-d5	117	11.840	11.841	(1.000)	1242372	10.0000	
	29 Chlorobenzene	112	Compound Not Detected.					
	30 Ethylbenzene	91	Compound Not Detected.					
	31 Xylene (m,p)	106	Compound Not Detected.					
	32 Styrene	104	Compound Not Detected.					
M	33 Xylene (total)	106	Compound Not Detected.					
	34 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	35 Xylene (o)	106	Compound Not Detected.					
	38 1,3-Dichlorobenzene	146	Compound Not Detected.					
	39 1,4-Dichlorobenzene	146	Compound Not Detected.					
	40 1,2-Dichlorobenzene	146	Compound Not Detected.					

STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcckto14.b/434688.d
Lab Smp Id: 434688 Client Smp ID: 029ACAIA1018
Inj Date : 30-OCT-2000 13:43
Operator : GMM Inst ID: W.i
Smp Info : 434688;029ACAIA1018;80293;1030E1
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wcckto14.b/ato14.m
Meth Date : 05-Nov-2000 15:37 cmp Quant Type: ISTD
Cal Date : 26-SEP-2000 10:26 Cal File: cc0005i2.d
Als bottle: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA.sub
Target Version: 3.50
Processing Host: chemsvr4

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: /chem/W.i/Wsvr.p/wcckto14.b/434688.d

Date : 30-OCT-2000 13:43

Client ID: 029ACAIA1018

Instrument: W.i

Sample Info: 434688;029ACAIA1018;80293;1030E1

Purge Volume: 200.0

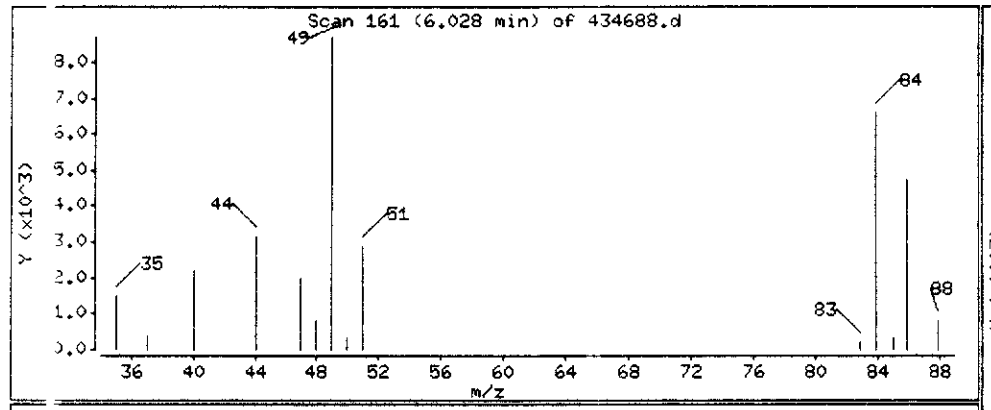
Operator: GHM

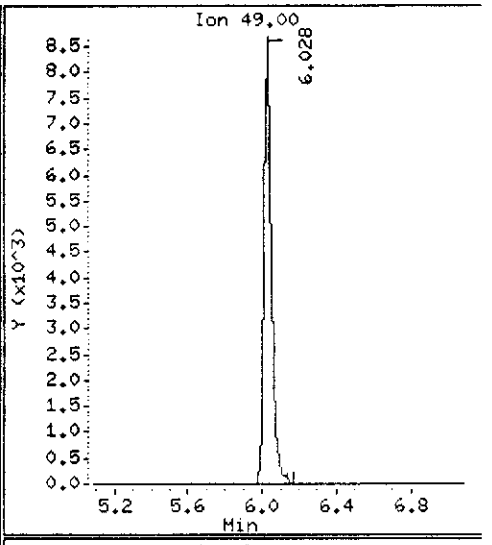
Column phase: DB-1

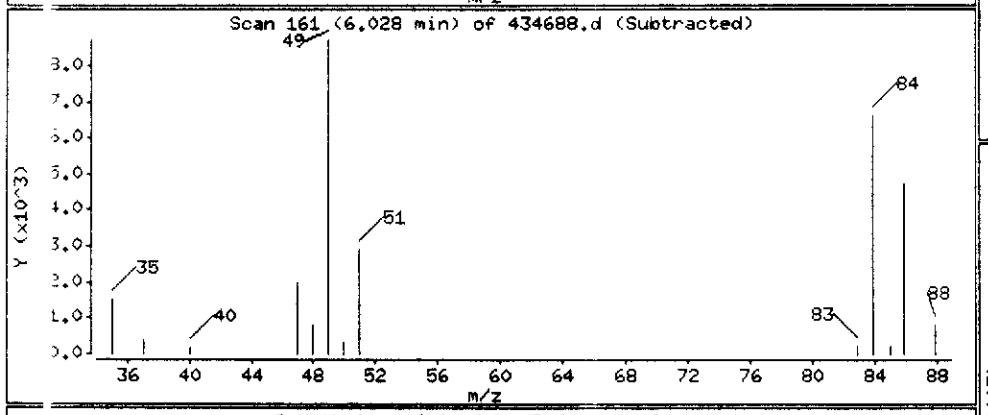
Column diameter: 0.35

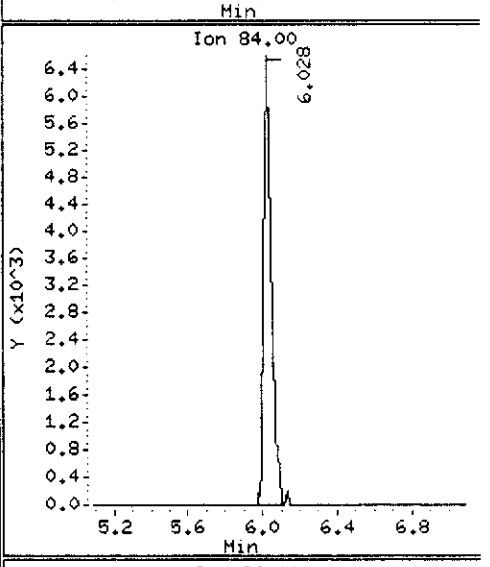
9 Methylene Chloride

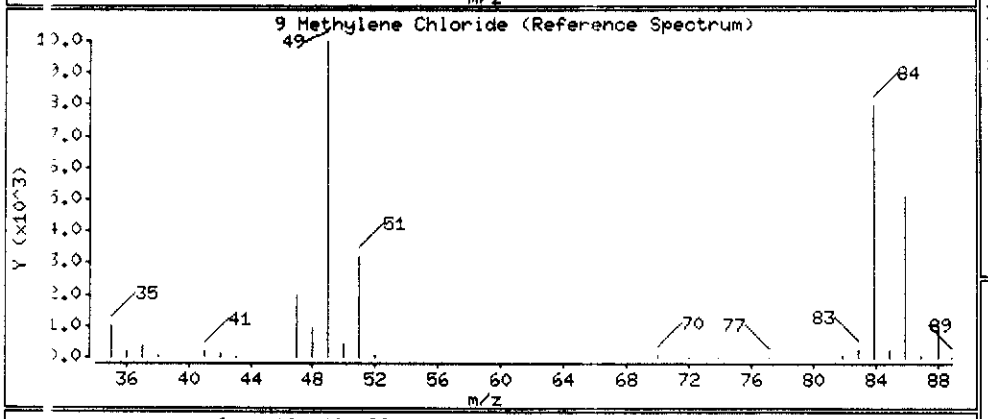
Concentration: 0.94 ppbv

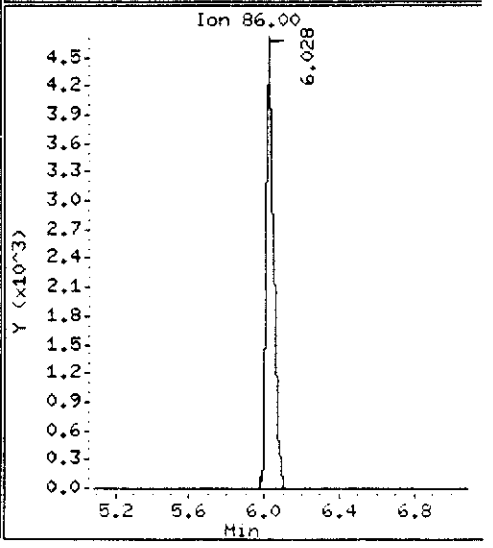


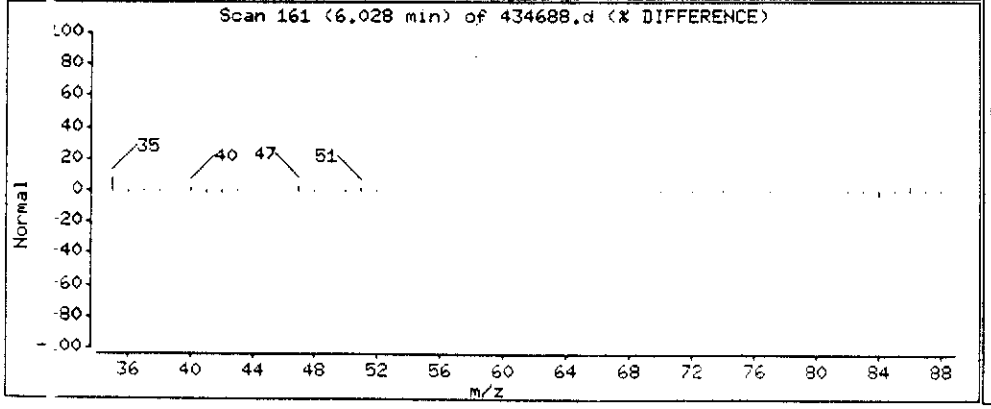












SEVERN
TRENT
SERVICES

Severn Trent Laboratories, Inc.

METHOD TO-14A
VOLATILE ORGANIC ANALYSIS

STANDARDS

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80293

Instrument ID: W Calibration Date(s): 09/26/00 09/26/00

Heated Purge: (Y/N) N Calibration Time(s): 0814 1026

GC Column: DB-1 ID: 0.35 (mm)

LAB FILE ID: RRF0.5=CC0005I2 RRF5 =CC005
RRF10 =CC010 RRF20 =CC020 RRF40 =CC040

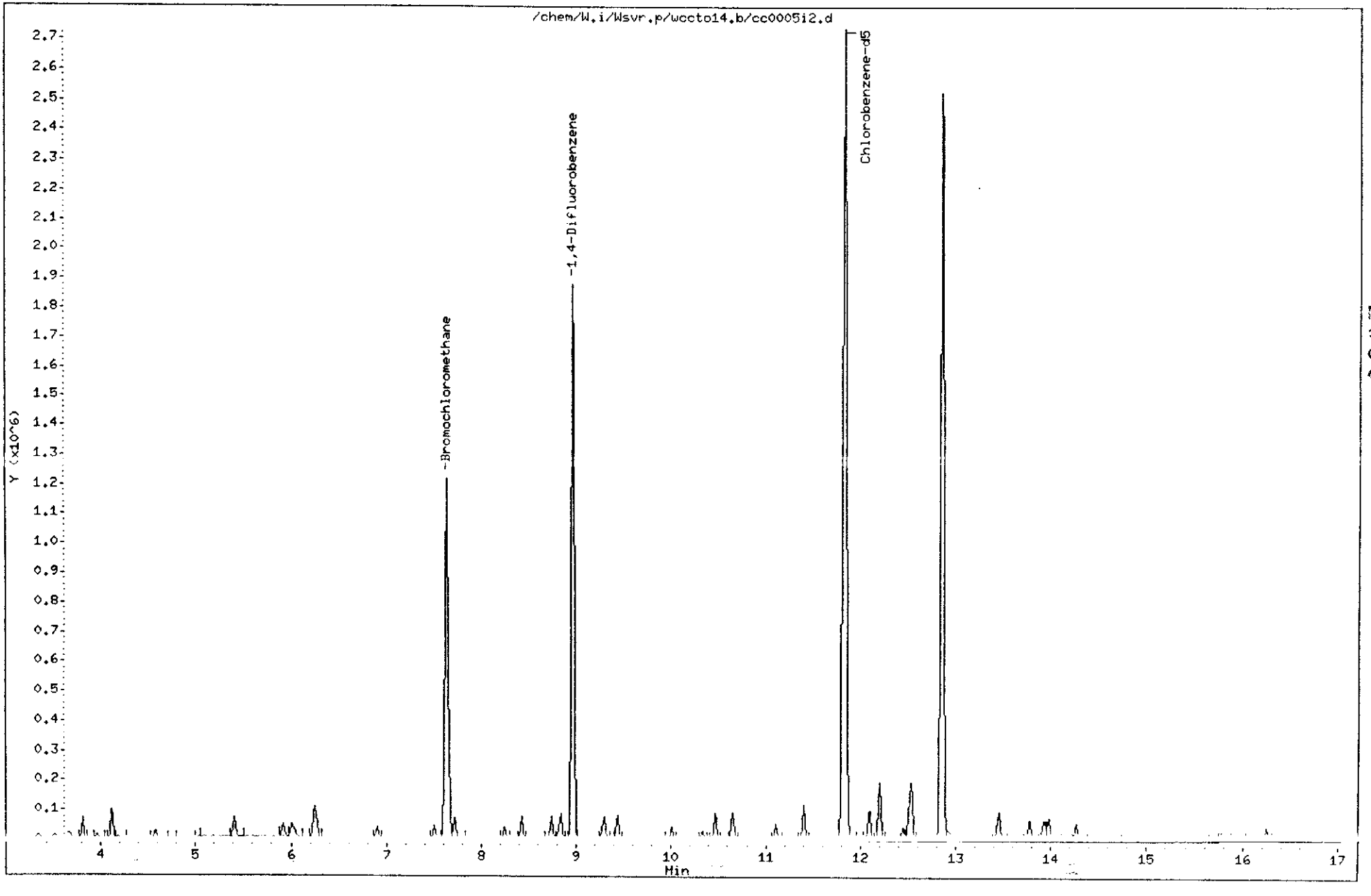
COMPOUND	RRF0.5	RRF5	RRF10	RRF20	RRF40	$\overline{RRF}$	% RSD
Chloromethane *	0.920	0.665	0.592	0.587	0.540	0.661	22.9*
Vinyl Chloride	0.929	0.741	0.680	0.667	0.611	0.726	16.9
Bromomethane	1.306	0.991	0.885	0.781	0.801	0.953	22.5
Chloroethane	0.552	0.449	0.397	0.398	0.370	0.433	16.7
Trichlorofluoromethane	3.208	2.202	1.996	1.957	1.850	2.243	24.7
Methylene Chloride	1.475	0.911	0.840	0.816	0.792	0.967	29.8
1,1-Dichloroethane *	2.196	1.583	1.408	1.388	1.317	1.578	22.7*
cis-1,2-Dichloroethene	1.457	1.333	1.195	1.032	1.007	1.205	16.0
Chloroform	2.793	2.182	1.974	1.767	1.690	2.081	21.2
1,1,1-Trichloroethane	2.494	2.035	1.837	1.671	1.573	1.922	19.0
Carbon Tetrachloride	0.586	0.434	0.386	0.398	0.366	0.434	20.4
Benzene	0.776	0.680	0.600	0.527	0.494	0.615	18.6
1,2-Dichloroethane	1.809	1.399	1.301	1.174	1.115	1.360	20.2
Trichloroethene	0.350	0.317	0.272	0.226	0.216	0.276	20.9
1,2-Dichloropropane	0.300	0.259	0.230	0.171	0.165	0.225	25.8
cis-1,3-Dichloropropene	0.336	0.325	0.302	0.261	0.260	0.297	11.9
Toluene	0.468	0.517	0.446	0.362	0.327	0.424	18.4
trans-1,3-Dichloropropene	0.248	0.216	0.210	0.181	0.187	0.208	12.8
1,1,2-Trichloroethane	0.307	0.277	0.239	0.170	0.155	0.230	28.6
Tetrachloroethene	0.417	0.390	0.339	0.336	0.294	0.355	13.7
Chlorobenzene *	0.753	0.658	0.566	0.505	0.482	0.593	19.0*
Ethylbenzene	1.050	1.130	0.978	0.779	0.838	0.955	15.2
Xylene (total)	1.206	1.220	1.065	0.978	0.995	1.093	10.5
Styrene	0.360	0.508	0.480	0.457	0.449	0.451	12.4
Xylene (m,p)	0.404	0.412	0.358	0.326	0.333	0.367	10.8
Xylene (o)	0.397	0.397	0.348	0.327	0.328	0.359	9.8
1,1,2,2-Tetrachloroethane	0.800	0.677	0.580	0.491	0.515	0.613	20.8
1,3-Dichlorobenzene	0.624	0.593	0.567	0.553	0.530	0.573	6.4
1,4-Dichlorobenzene	0.641	0.519	0.475	0.470	0.457	0.512	14.8
1,2-Dichlorobenzene	0.431	0.458	0.428	0.436	0.419	0.434	3.4

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

Data File: /chem/W.i/Wsvr.p/wccto14.b/cc0005i2.d
Date : 26-SEP-2000 10:26
Client ID: ASTD0005
Sample Info: ASTD0005 CRV#WCC
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i

Operator: GHM
Column diameter: 0.35



0037

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AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wccto14.b/cc0005i2.d
Lab Smp Id: ASTD0005 Client Smp ID: ASTD0005
Inj Date : 26-SEP-2000 10:26
Operator : GMM Inst ID: W.i
Smp Info : ASTD0005 CRV#WCC
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wccto14.b/ato14.m
Meth Date : 09-Oct-2000 11:20 cmp Quant Type: ISTD
Cal Date : 26-SEP-2000 10:26 Cal File: cc0005i2.d
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1 Dichlorodifluoromethane	85	3.816	3.881	(0.500)	65793	0.60000	0.84
2 Chloromethane	50	3.960	4.040	(0.519)	17455	0.50000	0.70
3 Dichlorotetrafluoroethane	85	4.119	4.198	(0.539)	68616	0.50000	0.71
4 Vinyl Chloride	62	4.191	4.271	(0.549)	17626	0.50000	0.64
5 Bromomethane	94	4.580	4.660	(0.600)	24782	0.50000	0.68
6 Chloroethane	64	4.753	4.833	(0.622)	10484	0.50000	0.64
7 Trichlorofluoromethane	101	5.406	5.482	(0.708)	60885	0.50000	0.72
8 1,1-Dichloroethene	96	5.922	5.998	(0.775)	21457	0.50000	0.68
9 Methylene Chloride	49	6.013	6.089	(0.787)	33595	0.60000	0.92
10 Freon TF	101	6.256	6.317	(0.819)	54282	0.50000	0.74
11 1,1-Dichloroethane	63	6.908	6.969	(0.905)	41671	0.50000	0.70
12 cis-1,2-Dichloroethene	61	7.500	7.561	(0.982)	27660	0.50000	0.60
* 13 Bromochloromethane	128	7.637	7.698	(1.000)	379557	10.0000	
14 Chloroform	83	7.712	7.774	(1.010)	53008	0.50000	0.67

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
	1	1,2-Dichloroethane	62	8.244	8.305	(1.079)	34331	0.50000	0.66
	1	1,1,1-Trichloroethane	97	8.426	8.472	(1.103)	47328	0.50000	0.65
	1	Benzene	78	8.744	8.790	(0.976)	67795	0.50000	0.63
	1	Carbon Tetrachloride	117	8.835	8.881	(0.986)	51237	0.50000	0.68
*	1	1,4-Difluorobenzene	114	8.957	9.003	(1.000)	1748346	10.0000	
	2	1,2-Dichloropropane	63	9.291	9.321	(1.037)	26249	0.50000	0.67
	2	Trichloroethene	95	9.442	9.473	(1.054)	30628	0.50000	0.63
	2	cis-1,3-Dichloropropene	75	10.004	10.035	(1.117)	29373	0.50000	0.57
	2	trans-1,3-Dichloropropene	75	10.338	10.369	(1.154)	21681	0.50000	0.59
	2	1,1,2-Trichloroethane	83	10.459	10.490	(1.168)	29494	0.55000	0.73
	2	Toluene	92	10.656	10.672	(0.901)	41906	0.50000	0.55
	2	1,2-Dibromoethane	107	11.112	11.143	(0.940)	40099	0.50000	0.57
	2	Tetrachloroethene	166	11.400	11.416	(0.964)	37344	0.50000	0.59
*	2	Chlorobenzene-d5	117	11.825	11.841	(1.000)	1788956	10.0000	
	2	Chlorobenzene	112	11.855	11.871	(1.003)	67396	0.50000	0.64(Q)
	3	Ethylbenzene	91	12.098	12.099	(1.023)	93962	0.50000	0.55
	3	Xylene (m,p)	106	12.204	12.220	(1.032)	72318	1.00000	1.1
M	3	Xylene (total)	106				107852	0.50000	1.6
	3	1,1,2,2-Tetrachloroethane	83	12.523	12.524	(1.059)	71600	0.50000	0.65
	3	Xylene (o)	106	12.538	12.539	(1.060)	35534	0.50000	0.55
	3	1,4-Dichlorobenzene	146	13.980	13.980	(1.182)	57311	0.50000	0.62
	4	1,2,4-Trichlorobenzene	180	15.831	15.832	(1.339)	11358	0.50000	0.58(M)

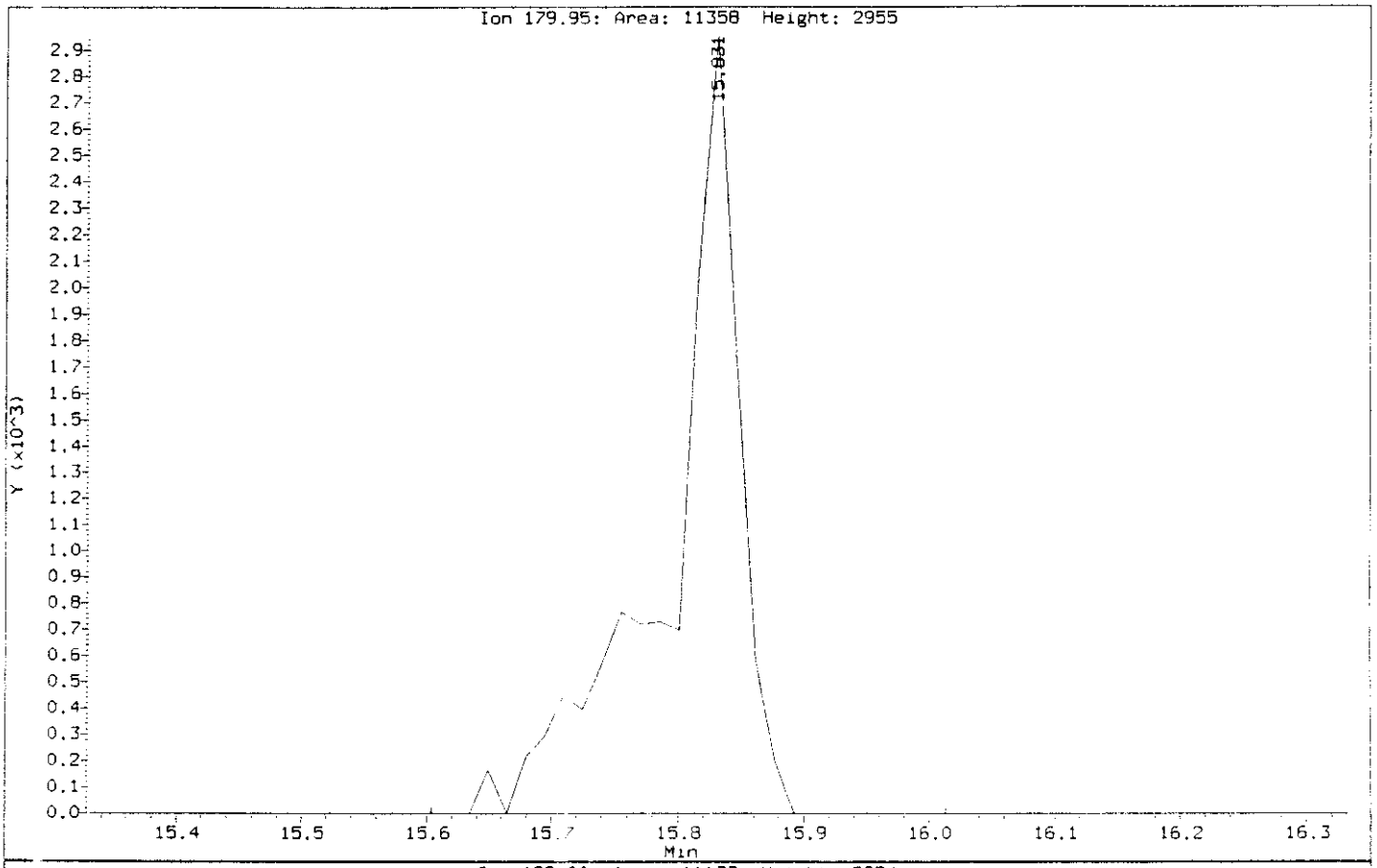
QC Flag Legend

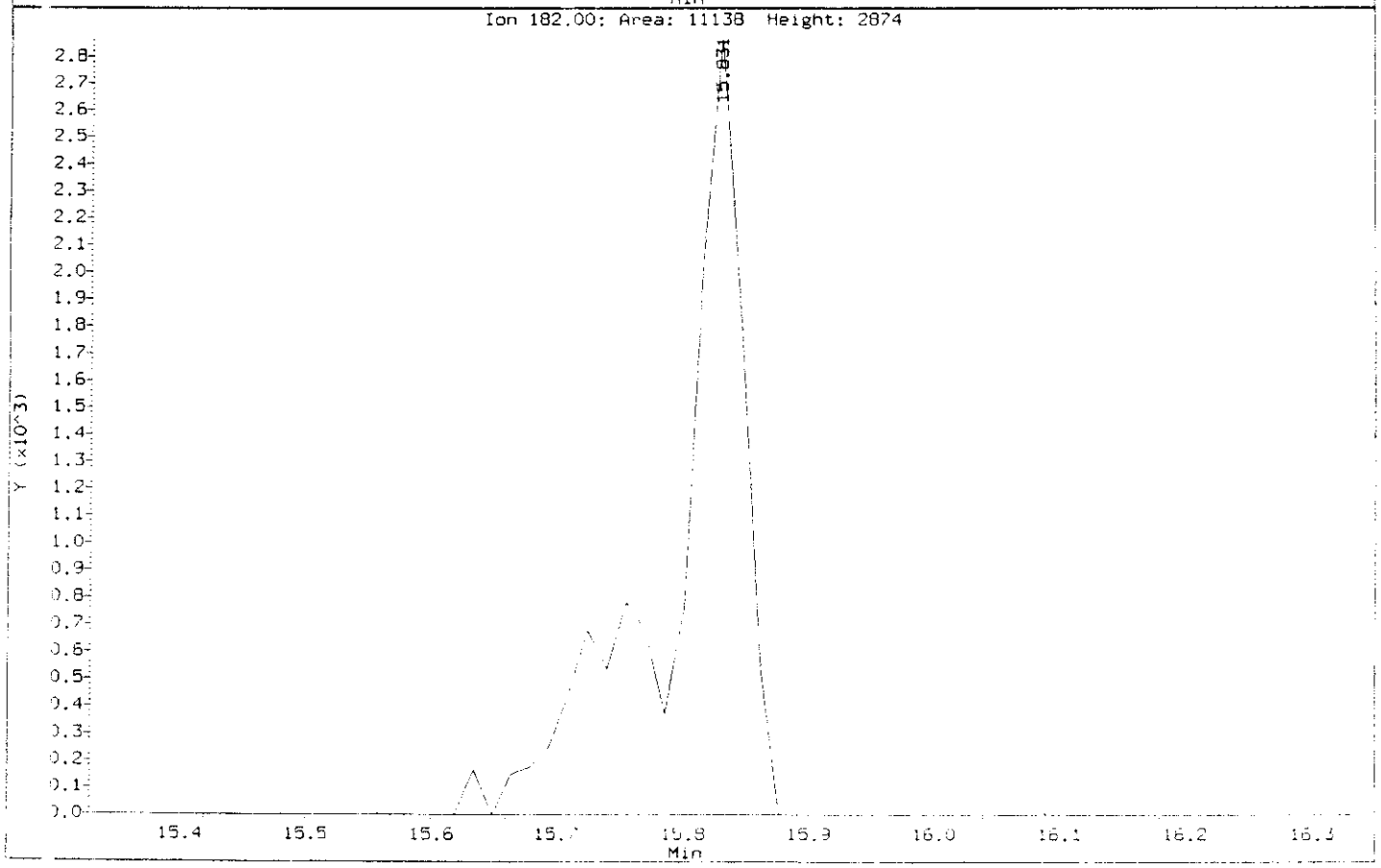
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

CMP 10/9/00

Da a File: /chem/W.i/Wsvr.p/wccto14.b/cc0005i2.d
In ection Date: 26-SEP-2000 10:26
In trument: W.i
Cl ent Sample ID: ASTD0005

Co pound: 1.2.4-Trichlorobenzene
CA Number: 120-82-1





Data File: /chem/W.i/Wsvr.p/wccto14.b/cc005.d

Date : 26-SEP-2000 08:14

Client ID: ASTD005

Sample Info: ASTD005 CRV#WCC

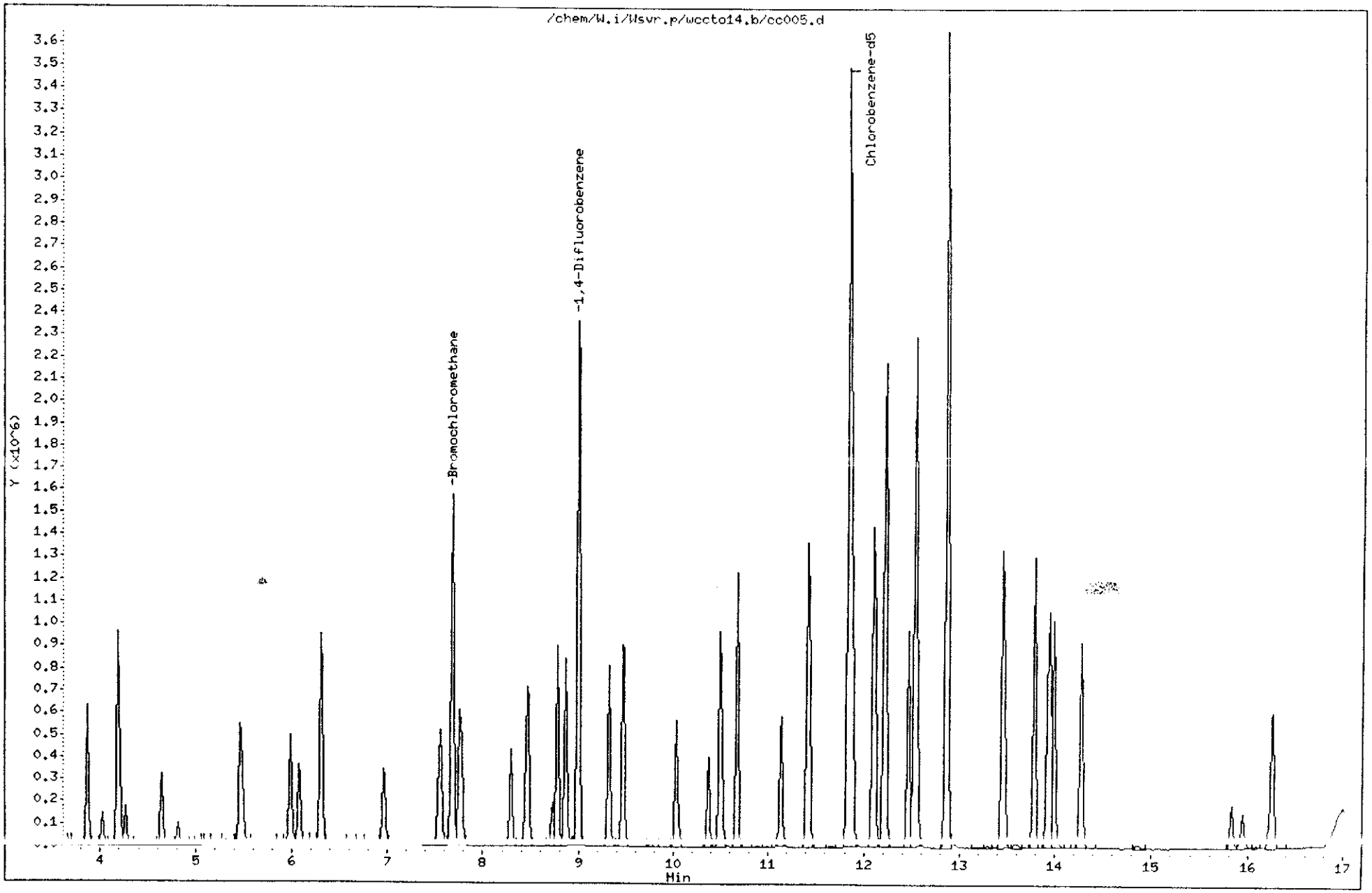
Purge Volume: 200.0

Column phase: DB-1

Instrument: W.i

Operator: GMM

Column diameter: 0.35



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AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wccto14.b/cc005.d
Lab Smp Id: ASTD005 Client Smp ID: ASTD005
Inj Date : 26-SEP-2000 08:14
Operator : GMM Inst ID: W.i
Smp Info : ASTD005 CRV#WCC
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wccto14.b/ato14.m
Meth Date : 09-Oct-2000 11:19 cmp Quant Type: ISTD
Cal Date : 26-SEP-2000 08:14 Cal File: cc005.d
Als bottle: 2 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1 Dichlorodifluoromethane	85	3.869	3.881	(0.504)	604231	5.00000	5.0
2 Chloromethane	50	4.028	4.040	(0.524)	164055	5.00000	5.0
3 Dichlorotetrafluoroethane	85	4.186	4.198	(0.545)	643688	5.00000	5.0
4 Vinyl Chloride	62	4.258	4.271	(0.554)	182940	5.00000	5.0
5 Bromomethane	94	4.648	4.660	(0.605)	244444	5.00000	5.0
6 Chloroethane	64	4.821	4.833	(0.628)	110823	5.00000	5.0
7 Trichlorofluoromethane	101	5.481	5.482	(0.714)	543367	5.00000	5.0
8 1,1-Dichloroethene	96	5.982	5.998	(0.779)	208018	5.00000	5.0
9 Methylene Chloride	49	6.073	6.089	(0.791)	224838	5.00000	5.0
10 Freon TF	101	6.301	6.317	(0.820)	463994	5.00000	5.0
11 1,1-Dichloroethane	63	6.953	6.969	(0.905)	390539	5.00000	5.0
12 cis-1,2 Dichloroethene	61	7.545	7.561	(0.982)	328917	5.00000	5.0
* 13 Bromochloromethane	128	7.682	7.698	(1.000)	433519	10.0000	
14 Chloroform	83	7.758	7.774	(1.010)	538566	5.00000	5.0

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
	1 1,2-Dichloroethane	62	8.289	8.305	(1.079)	345235	5.00000	5.0
	1 1,1,1-Trichloroethane	97	8.456	8.472	(1.101)	502216	5.00000	5.0
	1 Benzene	78	8.774	8.790	(0.975)	787372	5.00000	5.0
	1 Carbon Tetrachloride	117	8.865	8.881	(0.985)	502674	5.00000	5.0
*	1 1,4-Difluorobenzene	114	9.002	9.003	(1.000)	2316943	10.0000	
	2 1,2-Dichloropropane	63	9.321	9.321	(1.035)	300254	5.00000	5.0
	2 Trichloroethene	95	9.457	9.473	(1.051)	366861	5.00000	5.0
	2 cis-1,3-Dichloropropene	75	10.034	10.035	(1.115)	376355	5.00000	5.0
	2 trans-1,3-Dichloropropene	75	10.368	10.369	(1.152)	250649	5.00000	5.0
	2 1,1,2-Trichloroethane	83	10.489	10.490	(1.165)	320518	5.00000	5.0
	2 Toluene	92	10.671	10.672	(0.901)	594667	5.00000	5.0
	2 1,2-Dibromoethane	107	11.142	11.143	(0.941)	504720	5.00000	5.0
	2 Tetrachloroethene	166	11.415	11.416	(0.964)	449258	5.00000	5.0
*	2 Chlorobenzene-d5	117	11.840	11.841	(1.000)	2301245	10.0000	
	2 Chlorobenzene	112	11.870	11.871	(1.003)	756767	5.00000	5.0
	3 Ethylbenzene	91	12.098	12.099	(1.022)	1300474	5.00000	5.0
	31 Xylene (m,p)	106	12.219	12.220	(1.032)	947125	10.0000	10
	3 Styrene	104	12.462	12.463	(1.053)	585044	5.00000	5.0
M	3 Xylene (total)	106				1404197	5.00000	15
	34 1,1,2,2-Tetrachloroethane	83	12.523	12.524	(1.058)	778915	5.00000	5.0
	35 Xylene (o)	106	12.538	12.539	(1.059)	457072	5.00000	5.0
	36 1,3,5-Trimethylbenzene	105	13.448	13.449	(1.136)	998228	5.00000	5.0
	37 1,2,4-Trimethylbenzene	105	13.782	13.783	(1.164)	946306	5.00000	5.0
	38 1,3-Dichlorobenzene	146	13.934	13.935	(1.177)	682423	5.00000	5.0
	39 1,4-Dichlorobenzene	146	13.980	13.980	(1.181)	596797	5.00000	5.0
	40 1,2-Dichlorobenzene	146	14.268	14.269	(1.205)	527297	5.00000	5.0
	41 1,2,4-Trichlorobenzene	180	15.831	15.832	(1.337)	82320	5.00000	5.0
	42 Hexachlorobutadiene	225	16.256	16.257	(1.373)	164412	5.00000	5.0

Data File: /chem/W.i/Wsvr.p/wccto14.b/cc010.d

Date : 26-SEP-2000 08:44

Client ID: ASTD010

Sample Info: ASTD010 CRV#WCC

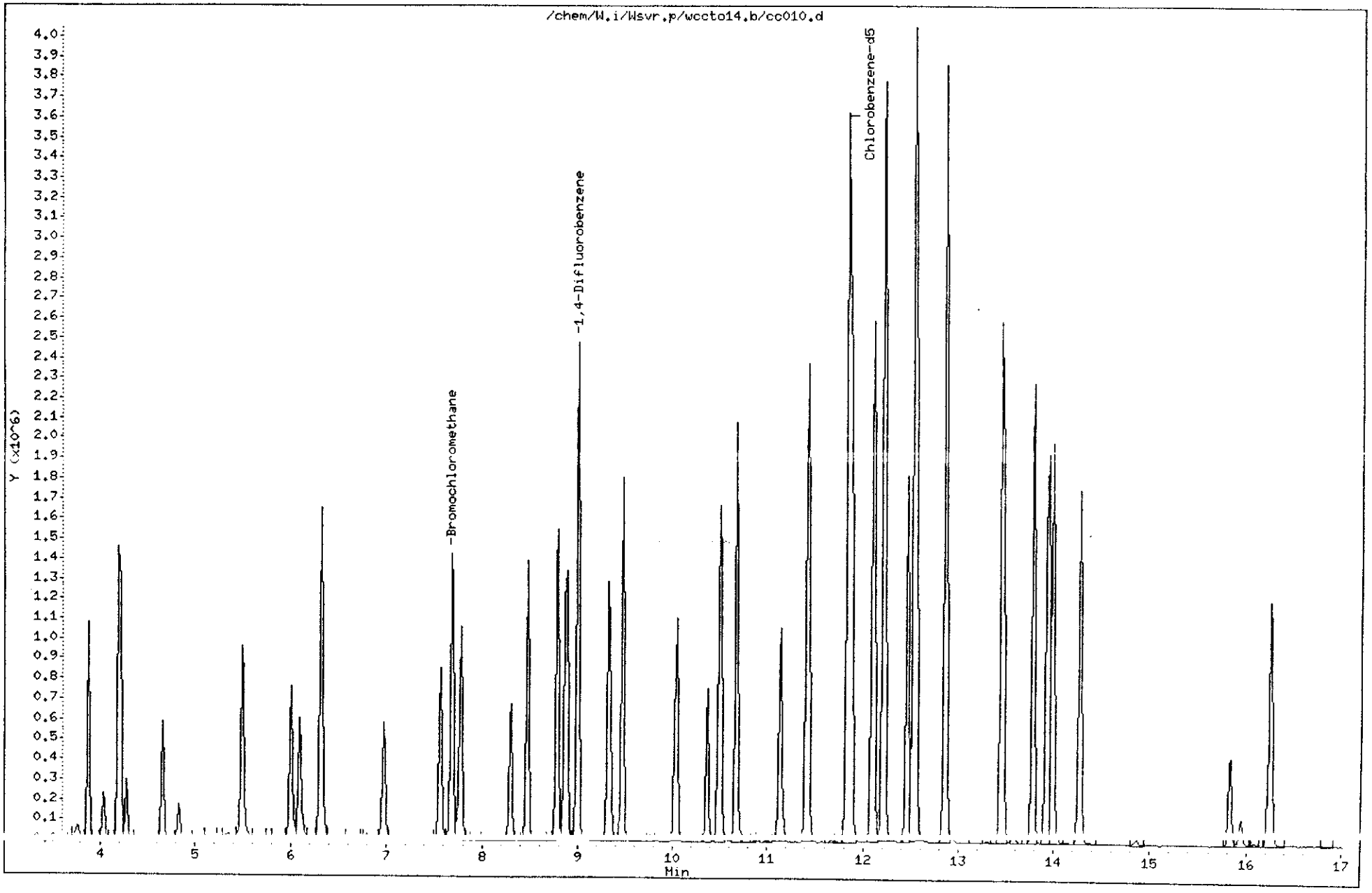
Purge Volume: 200.0

Column phase: DB-1

Instrument: W.i

Operator: GMM

Column diameter: 0.35



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AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wccto14.b/cc010.d
Lab Smp Id: ASTD010 Client Smp ID: ASTD010
Inj Date : 26-SEP-2000 08:44
Operator : GMM Inst ID: W.i
Smp Info : ASTD010 CRV#WCC
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wccto14.b/ato14.m
Meth Date : 09-Oct-2000 11:19 cmp Quant Type: ISTD
Cal Date : 26-SEP-2000 08:44 Cal File: cc010.d
Als bottle: 3 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

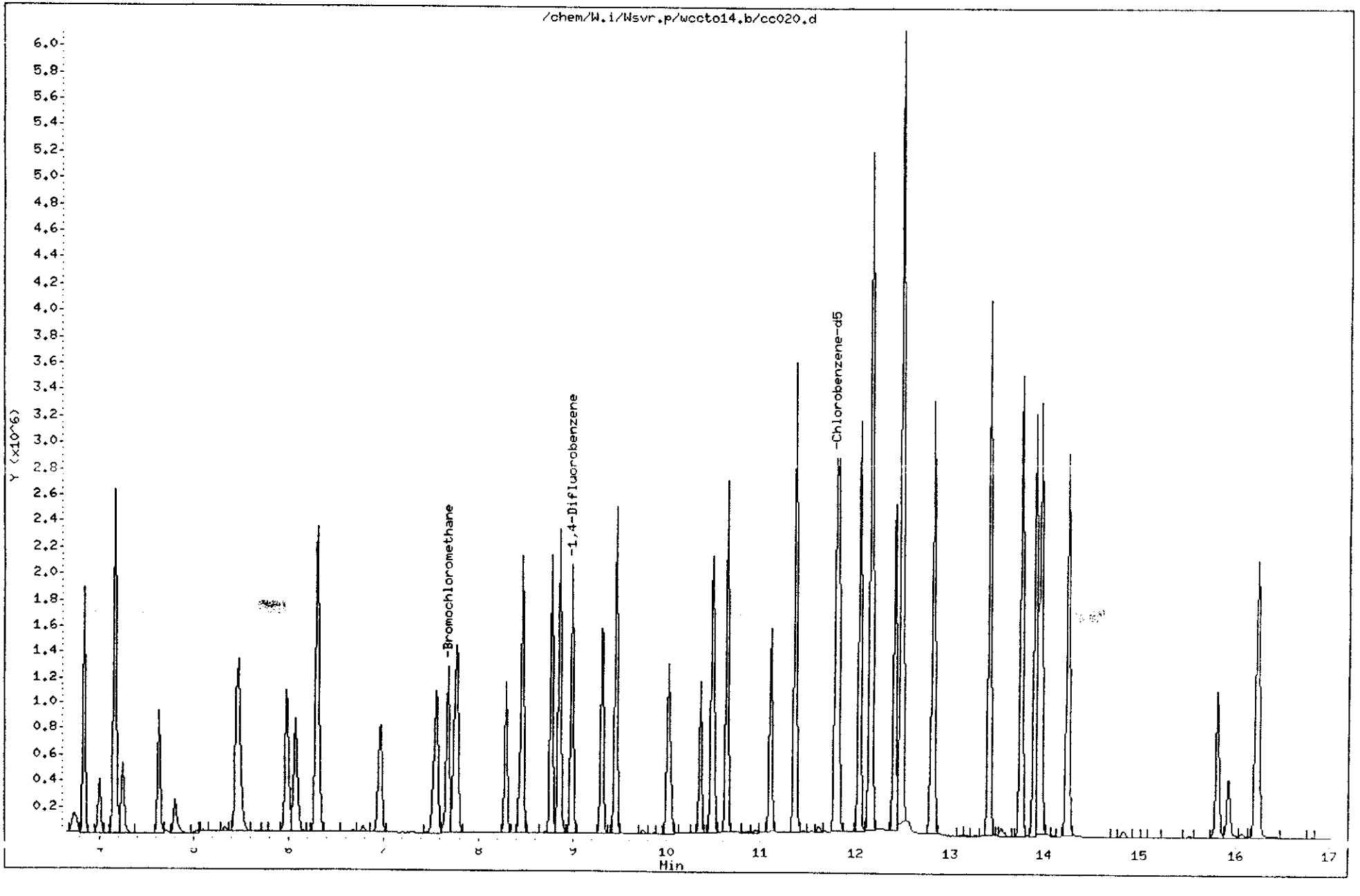
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1	Dichlorodifluoromethane	85	3.881	3.881	(0.504)	1015354	10.0000	9.4
2	Chloromethane	50	4.040	4.040	(0.525)	279383	10.0000	9.4
3	Dichlorotetrafluoroethane	85	4.198	4.198	(0.545)	1068465	10.0000	9.3
4	Vinyl Chloride	62	4.271	4.271	(0.555)	320954	10.0000	9.6
5	Bromomethane	94	4.660	4.660	(0.605)	417756	10.0000	9.4
6	Chloroethane	64	4.833	4.833	(0.628)	187490	10.0000	9.4
7	Trichlorofluoromethane	101	5.482	5.482	(0.712)	941747	10.0000	9.5
8	1,1-Dichloroethene	96	5.998	5.998	(0.779)	356977	10.0000	9.4
9	Methylene Chloride	49	6.089	6.089	(0.791)	396509	10.0000	9.6
10	Freon TF	101	6.317	6.317	(0.821)	798551	10.0000	9.5
11	1,1-Dichloroethane	63	6.969	6.969	(0.905)	664356	10.0000	9.4
12	cis-1,2-Dichloroethene	61	7.561	7.561	(0.982)	564049	10.0000	9.4
* 13	Bromochloromethane	128	7.698	7.698	(1.000)	471829	10.0000	
14	Chloroform	83	7.774	7.774	(1.010)	931367	10.0000	9.5

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
	1 1,2-Dichloroethane	62	8.305	8.305	(1.079)	613842	10.0000	9.6
	1 1,1,1-Trichloroethane	97	8.472	8.472	(1.101)	866870	10.0000	9.5
	1 Benzene	78	8.790	8.790	(0.976)	1370491	10.0000	9.4
	1 Carbon Tetrachloride	117	8.881	8.881	(0.986)	881783	10.0000	9.4
*	1 1,4-Difluorobenzene	114	9.003	9.003	(1.000)	2283337	10.0000	
	2 1,2-Dichloropropane	63	9.321	9.321	(1.035)	525980	10.0000	9.4
	2 Trichloroethene	95	9.473	9.473	(1.052)	621822	10.0000	9.2
	2 cis-1,3-Dichloropropene	75	10.035	10.035	(1.115)	689797	10.0000	9.6
	2 trans-1,3-Dichloropropene	75	10.369	10.369	(1.152)	479306	10.0000	9.8
	2 1,1,2-Trichloroethane	83	10.490	10.490	(1.165)	545818	10.0000	9.3
	2 Toluene	92	10.672	10.672	(0.901)	1049390	10.0000	9.3
	2 1,2-Dibromoethane	107	11.143	11.143	(0.941)	924089	10.0000	9.4
	2 Tetrachloroethene	166	11.416	11.416	(0.964)	798964	10.0000	9.3
*	2 Chlorobenzene-d5	117	11.841	11.841	(1.000)	2354424	10.0000	
	2 Chlorobenzene	112	11.871	11.871	(1.003)	1331579	10.0000	9.2
	3 Ethylbenzene	91	12.099	12.099	(1.022)	2302343	10.0000	9.3
	31 Xylene (m,p)	106	12.220	12.220	(1.032)	1687276	20.0000	19
	32 Styrene	104	12.463	12.463	(1.053)	1129681	10.0000	9.7
M	33 Xylene (total)	106				2508003	10.0000	28
	34 1,1,2,2-Tetrachloroethane	83	12.524	12.524	(1.058)	1366492	10.0000	9.2
	35 Xylene (o)	106	12.539	12.539	(1.059)	820727	10.0000	9.3
	36 1,3,5-Trimethylbenzene	105	13.449	13.449	(1.136)	1808256	10.0000	9.4
	37 1,2,4-Trimethylbenzene	105	13.783	13.783	(1.164)	1740809	10.0000	9.5
	38 1,3-Dichlorobenzene	146	13.935	13.935	(1.177)	1334536	10.0000	9.8
	39 1,4-Dichlorobenzene	146	13.980	13.980	(1.181)	1118127	10.0000	9.6
	40 1,2-Dichlorobenzene	146	14.269	14.269	(1.205)	1007455	10.0000	9.6
	41 1,2,4-Trichlorobenzene	180	15.832	15.832	(1.337)	201741	10.0000	11
	42 Hexachlorobutadiene	225	16.257	16.257	(1.373)	312405	10.0000	9.6

Data File: /chem/W.i/Wsvr.p/wccto14.b/cc020.d
Date : 26-SEP-2000 09:15
Client ID: ASTD020
Sample Info: ASTD020 CRV#WCC
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i

Operator: GMM
Column diameter: 0.35



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AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcctol4.b/cc020.d
Lab Smp Id: ASTD020 Client Smp ID: ASTD020
Inj Date : 26-SEP-2000 09:15
Operator : GMM Inst ID: W.i
Smp Info : ASTD020 CRV#WCC
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wcctol4.b/atol4.m
Meth Date : 09-Oct-2000 11:19 cmp Quant Type: ISTD
Cal Date : 26-SEP-2000 09:15 Cal File: cc020.d
Als bottle: 4 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1 Dichlorodifluoromethane	85	3.839	3.881	(0.500)	1764491	20.0000	18
2 Chloromethane	50	4.012	4.040	(0.522)	503259	20.0000	19
3 Dichlorotetrafluoroethane	85	4.170	4.198	(0.543)	1798386	20.0000	18
4 Vinyl Chloride	62	4.242	4.271	(0.552)	571700	20.0000	19
5 Bromomethane	94	4.632	4.660	(0.603)	669927	20.0000	18
6 Chloroethane	64	4.805	4.833	(0.625)	341481	20.0000	19
7 Trichlorofluoromethane	101	5.465	5.482	(0.712)	1678431	20.0000	19
8 1,1-Dichloroethene	96	5.967	5.998	(0.777)	629908	20.0000	19
9 Methylene Chloride	49	6.073	6.089	(0.791)	699649	20.0000	19
10 Freon TF	101	6.301	6.317	(0.820)	1415461	20.0000	19
11 1,1-Dichloroethane	63	6.968	6.969	(0.907)	1190552	20.0000	19
12 cis-1,2-Dichloroethene	61	7.545	7.561	(0.982)	885333	20.0000	17
* 13 Bromochloromethane	128	7.681	7.698	(1.000)	428781	10.0000	
14 Chloroform	83	7.757	7.774	(1.010)	1515105	20.0000	18

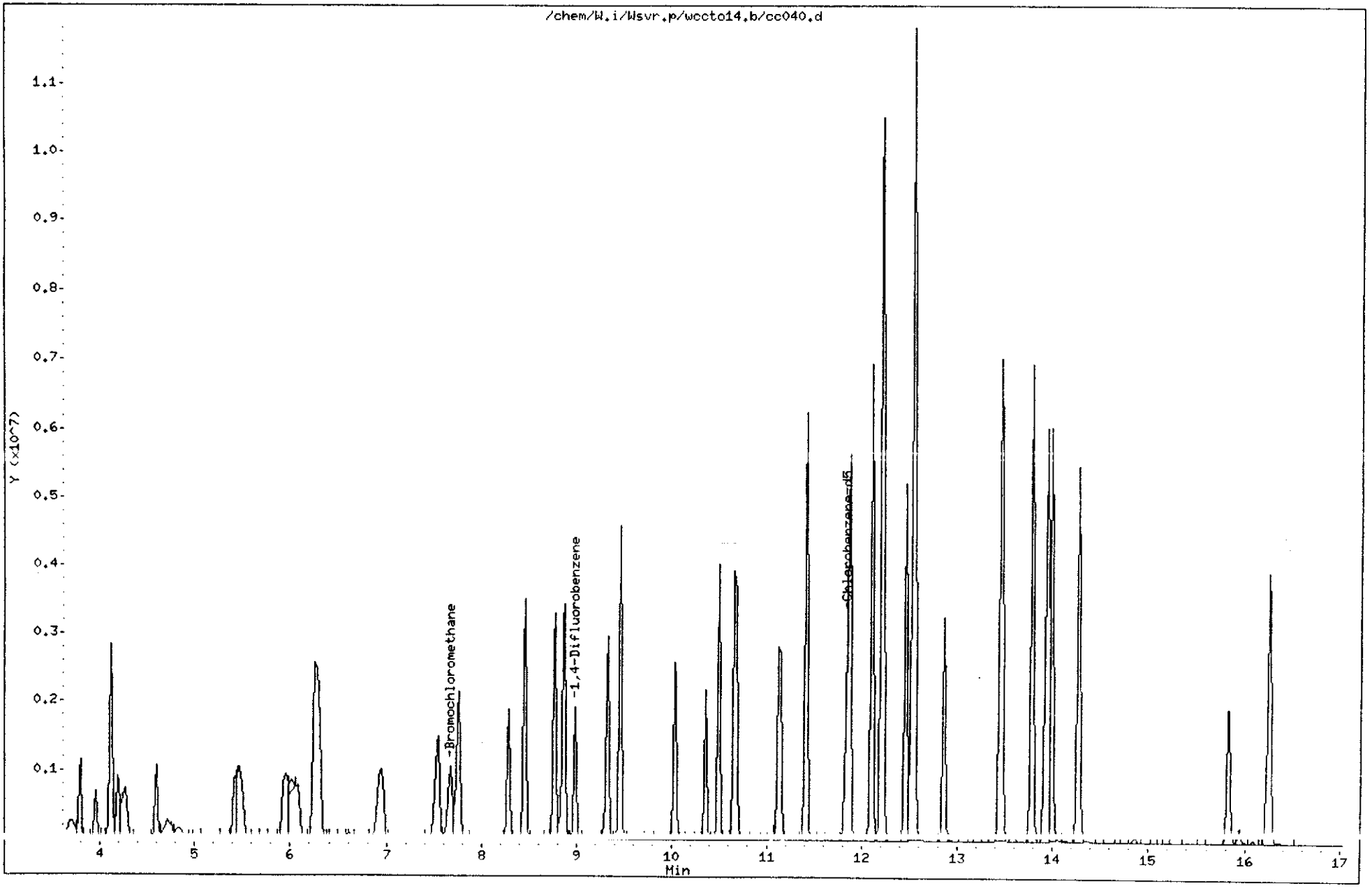
		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
	1	1,2-Dichloroethane	62	8.289	8.305	(1.079)	1006741	20.0000	18
	1	1,1,1-Trichloroethane	97	8.455	8.472	(1.101)	1433091	20.0000	18
	1	Benzene	78	8.774	8.790	(0.976)	1950334	20.0000	18
	1	Carbon Tetrachloride	117	8.865	8.881	(0.986)	1470652	20.0000	20
*	1	1,4-Difluorobenzene	114	8.987	9.003	(1.000)	1848695	10.0000	
	2	1,2-Dichloropropane	63	9.305	9.321	(1.035)	630933	20.0000	16
	2	Trichloroethene	95	9.457	9.473	(1.052)	834106	20.0000	17
	2	cis-1,3-Dichloropropene	75	10.019	10.035	(1.115)	964419	20.0000	18
	2	trans-1,3-Dichloropropene	75	10.352	10.369	(1.152)	668590	20.0000	19
	2	1,1,2-Trichloroethane	83	10.489	10.490	(1.167)	630164	20.0000	15
	2	Toluene	92	10.641	10.672	(0.902)	1330256	20.0000	16
	2	1,2-Dibromoethane	107	11.111	11.143	(0.942)	1284081	20.0000	18
	2	Tetrachloroethene	166	11.369	11.416	(0.964)	1235183	20.0000	19
*	2	Chlorobenzene-d5	117	11.794	11.841	(1.000)	1835215	10.0000	
	2	Chlorobenzene	112	11.824	11.871	(1.003)	1852292	20.0000	18
	3	Ethylbenzene	91	12.052	12.099	(1.022)	2859297	20.0000	16
	3	Xylene (m,p)	106	12.158	12.220	(1.031)	2390239	40.0000	36(Q)
	3	Styrene	104	12.416	12.463	(1.053)	1678464	20.0000	19
M	3	Xylene (total)	106				3589408	20.0000	54
	3	1,1,2,2-Tetrachloroethane	83	12.477	12.524	(1.058)	1802491	20.0000	17
	3	Xylene (o)	106	12.492	12.539	(1.059)	1199169	20.0000	18
	3	1,3,5-Trimethylbenzene	105	13.418	13.449	(1.138)	2650056	20.0000	18
	3	1,2,4-Trimethylbenzene	105	13.752	13.783	(1.166)	2611519	20.0000	19
	3	1,3-Dichlorobenzene	146	13.904	13.935	(1.179)	2028798	20.0000	19
	3	1,4-Dichlorobenzene	146	13.949	13.980	(1.183)	1723886	20.0000	19(H)
	4	1,2-Dichlorobenzene	146	14.237	14.269	(1.207)	1599047	20.0000	20
	4	1,2,4-Trichlorobenzene	180	15.816	15.832	(1.341)	480095	20.0000	27
	4	Hexachlorobutadiene	225	16.241	16.257	(1.377)	515732	20.0000	20

QC Flag Legend

Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

Data File: /chem/W.i/Wsvr.p/wccto14.b/cc040.d
Date : 26-SEP-2000 09:48
Client ID: ASTD040
Sample Info: ASTD040 CRV#WCC
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i
Operator: GHM
Column diameter: 0.35



0050

STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wccto14.b/cc040.d
Lab Smp Id: ASTD040 Client Smp ID: ASTD040
Inj Date : 26-SEP-2000 09:48
Operator : GMM Inst ID: W.i
Smp Info : ASTD040 CRV#WCC
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wccto14.b/ato14.m
Meth Date : 09-Oct-2000 11:20 cmp Quant Type: ISTD
Cal Date : 26-SEP-2000 09:48 Cal File: cc040.d
Als bottle: 5 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1 Dichlorodifluoromethane	85	3.802	3.881	(0.496)	1201322	38.0000	16
2 Chloromethane	50	3.961	4.040	(0.517)	843258	40.0000	36
3 Dichlorotetrafluoroethane	85	4.119	4.198	(0.537)	3228761	40.0000	37(M)
4 Vinyl Chloride	62	4.191	4.271	(0.547)	953872	40.0000	36
5 Bromomethane	94	4.595	4.660	(0.599)	1249531	40.0000	37(M)
6 Chloroethane	64	4.826	4.833	(0.629)	577454	40.0000	37
7 Trichlorofluoromethane	101	5.452	5.482	(0.711)	2886622	40.0000	37(M)
8 1,1-Dichloroethene	96	5.953	5.998	(0.776)	1099785	40.0000	37
9 Methylene Chloride	49	6.074	6.089	(0.792)	1235081	40.0000	38
10 Freon TF	101	6.256	6.317	(0.816)	2448995	40.0000	37
11 1,1-Dichloroethane	63	6.954	6.969	(0.907)	2055235	40.0000	37
12 cis-1,2-Dichloroethene	61	7.546	7.561	(0.984)	1570515	40.0000	35
* 13 Bromochloromethane	128	7.668	7.698	(1.000)	390021	10.0000	
14 Chloroform	83	7.759	7.774	(1.012)	2636719	40.0000	36

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
	5 1,2-Dichloroethane	62	8.290	8.305	(1.081)	1739305	40.0000	36
	6 1,1,1-Trichloroethane	97	8.457	8.472	(1.103)	2454171	40.0000	35
	7 Benzene	78	8.775	8.790	(0.976)	3420523	40.0000	34
	8 Carbon Tetrachloride	117	8.866	8.881	(0.986)	2535029	40.0000	37
*	9 1,4-Difluorobenzene	114	8.988	9.003	(1.000)	1729726	10.0000	
	0 1,2-Dichloropropane	63	9.322	9.321	(1.037)	1140642	40.0000	32
	1 Trichloroethene	95	9.458	9.473	(1.052)	1496582	40.0000	34
	2 cis-1,3-Dichloropropene	75	10.020	10.035	(1.115)	1796826	40.0000	36
	3 trans-1,3-Dichloropropene	75	10.354	10.369	(1.152)	1297002	40.0000	38
	4 1,1,2-Trichloroethane	83	10.490	10.490	(1.167)	1074030	40.0000	30
	5 Toluene	92	10.657	10.672	(0.900)	2312261	40.0000	32
	6 1,2-Dibromoethane	107	11.128	11.143	(0.940)	2473238	40.0000	36
	7 Tetrachloroethene	166	11.416	11.416	(0.964)	2079400	40.0000	34
*	8 Chlorobenzene-d5	117	11.841	11.841	(1.000)	1769812	10.0000	
	9 Chlorobenzene	112	11.871	11.871	(1.003)	3411278	40.0000	35
	0 Ethylbenzene	91	12.099	12.099	(1.022)	5936571	40.0000	36
	1 Xylene (m,p)	106	12.220	12.220	(1.032)	4717907	80.0000	75
	2 Styrene	104	12.463	12.463	(1.053)	3177872	40.0000	38
M	3 Xylene (total)	106				7042868	40.0000	110
	4 1,1,2,2-Tetrachloroethane	83	12.539	12.524	(1.059)	3647274	40.0000	36
	5 Xylene (o)	106	12.539	12.539	(1.059)	2324961	40.0000	38
	6 1,3,5-Trimethylbenzene	105	13.449	13.449	(1.136)	4880236	40.0000	36
	7 1,2,4-Trimethylbenzene	105	13.783	13.783	(1.164)	4861996	40.0000	37
	8 1,3-Dichlorobenzene	146	13.935	13.935	(1.177)	3748844	40.0000	38
	9 1,4-Dichlorobenzene	146	13.981	13.980	(1.181)	3233236	40.0000	38
	0 1,2-Dichlorobenzene	146	14.269	14.269	(1.205)	2967555	40.0000	38
	1 1,2,4-Trichlorobenzene	180	15.832	15.832	(1.337)	899463	40.0000	49(A)
	2 Hexachlorobutadiene	225	16.257	16.257	(1.373)	994186	40.0000	40(A)

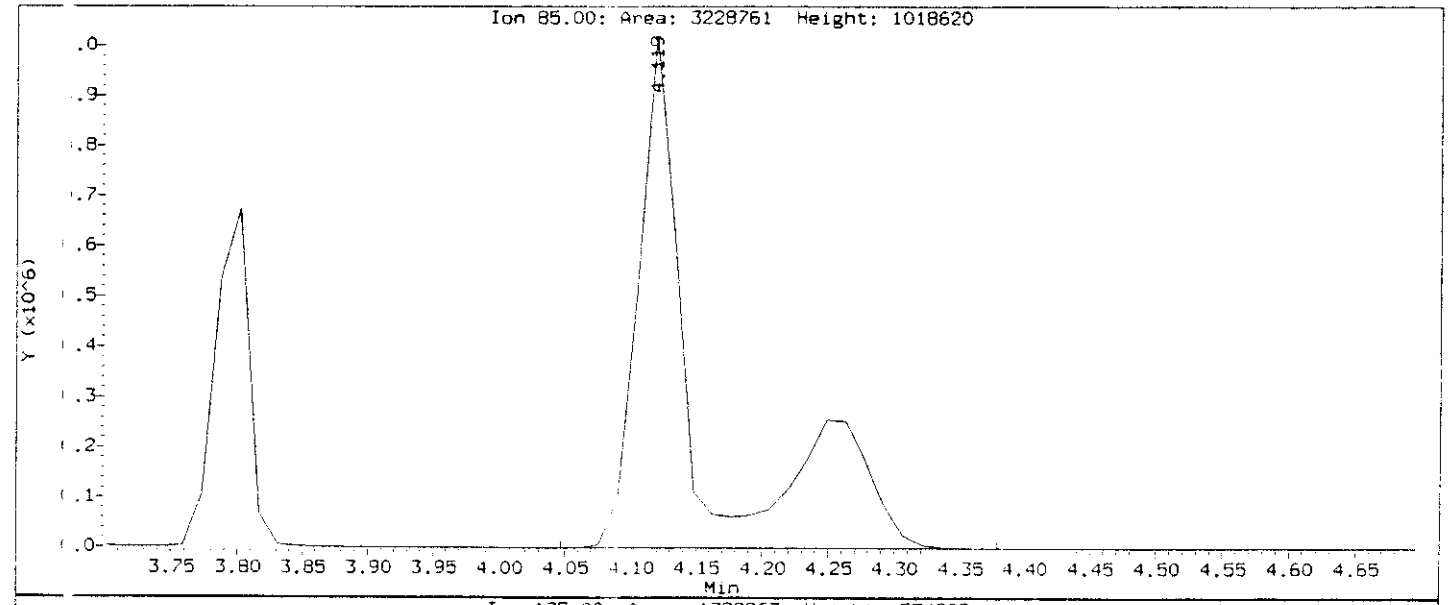
QC Flag Legend

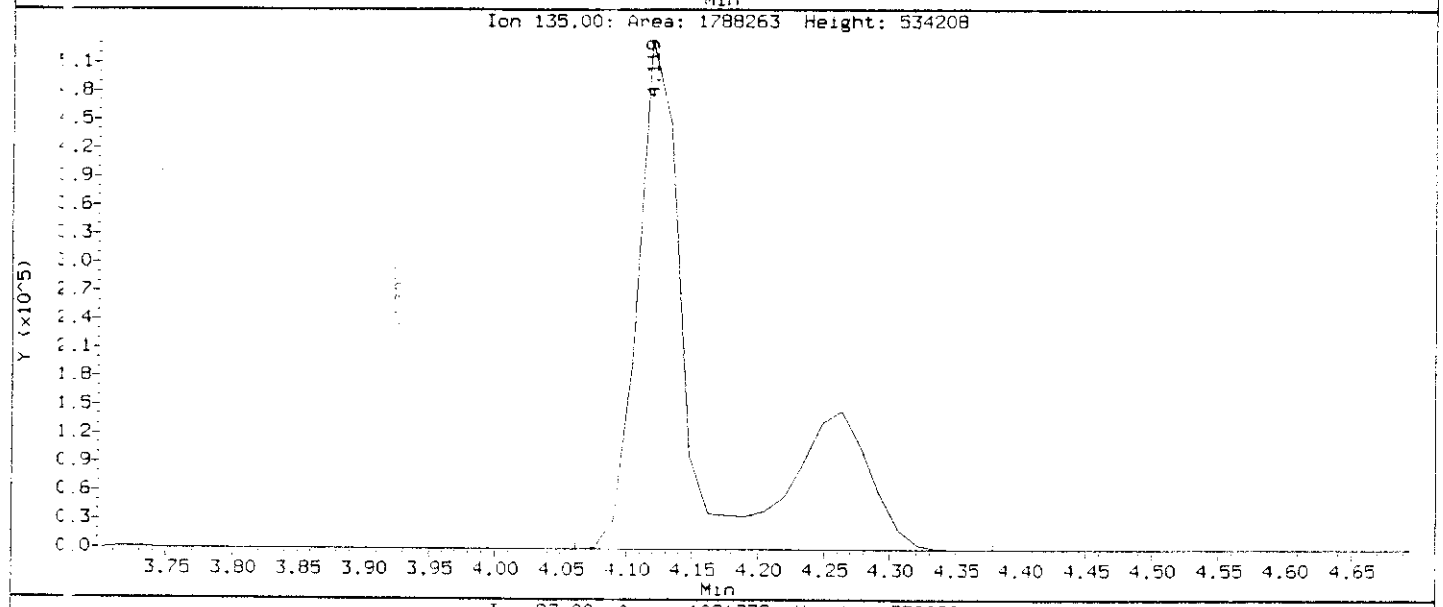
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

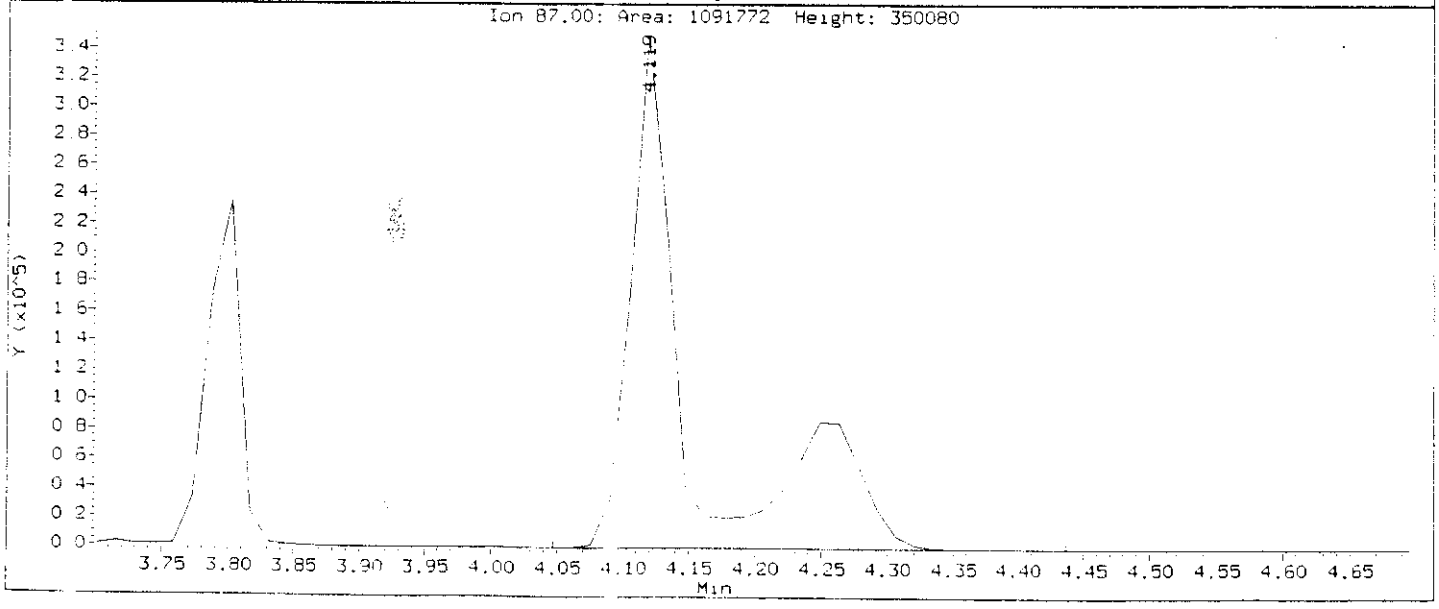
Cmp 10/9/00

Data File: /chem/W.i/Wsvr.p/wcctol4.b/cc040.d
Injection Date: 26-SEP-2000 09:48
Instrument: W.i
Client Sample ID: ASTD040

Compound: Dichlorotetrafluoroethane
CAS Number: 76-14-2

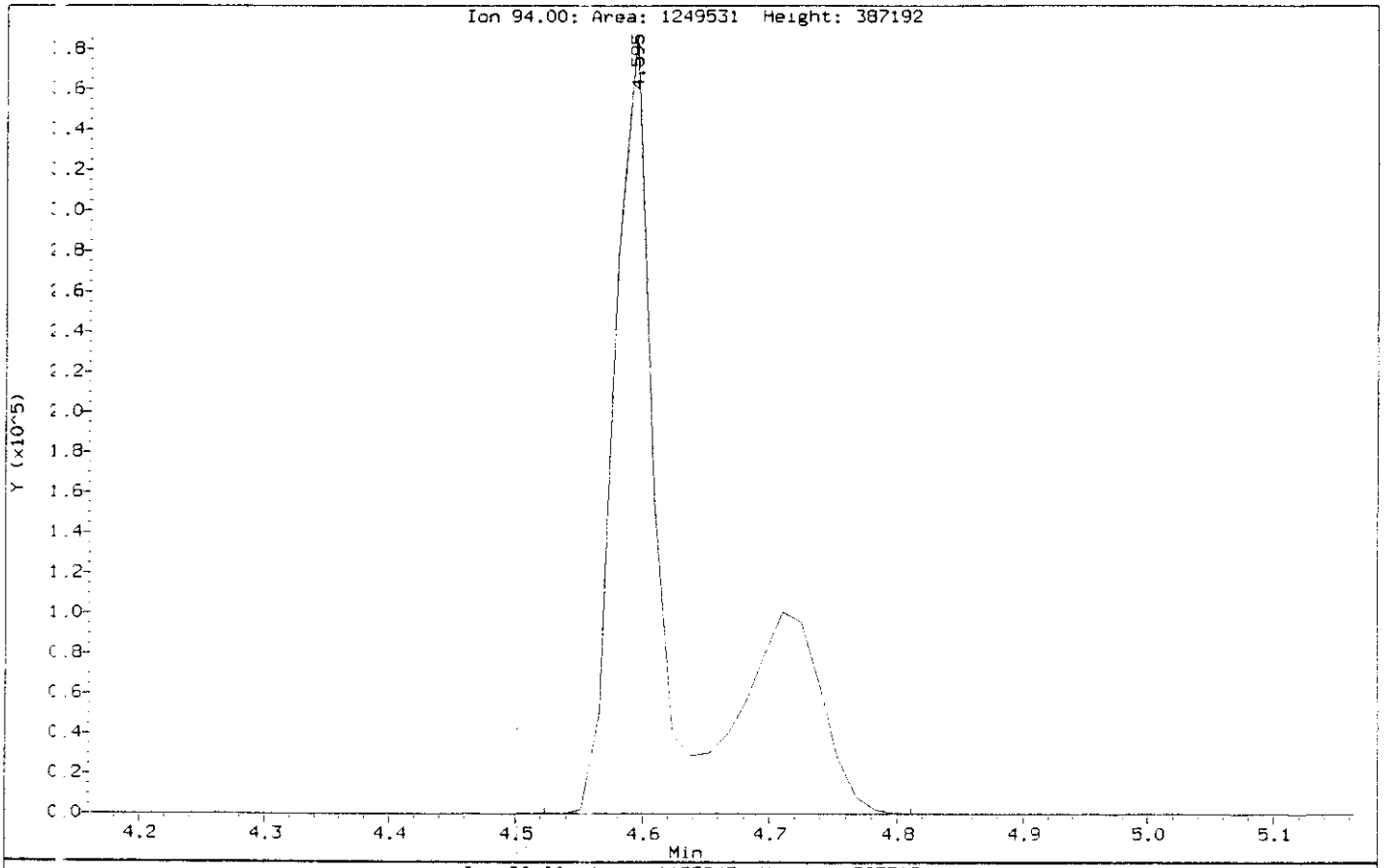


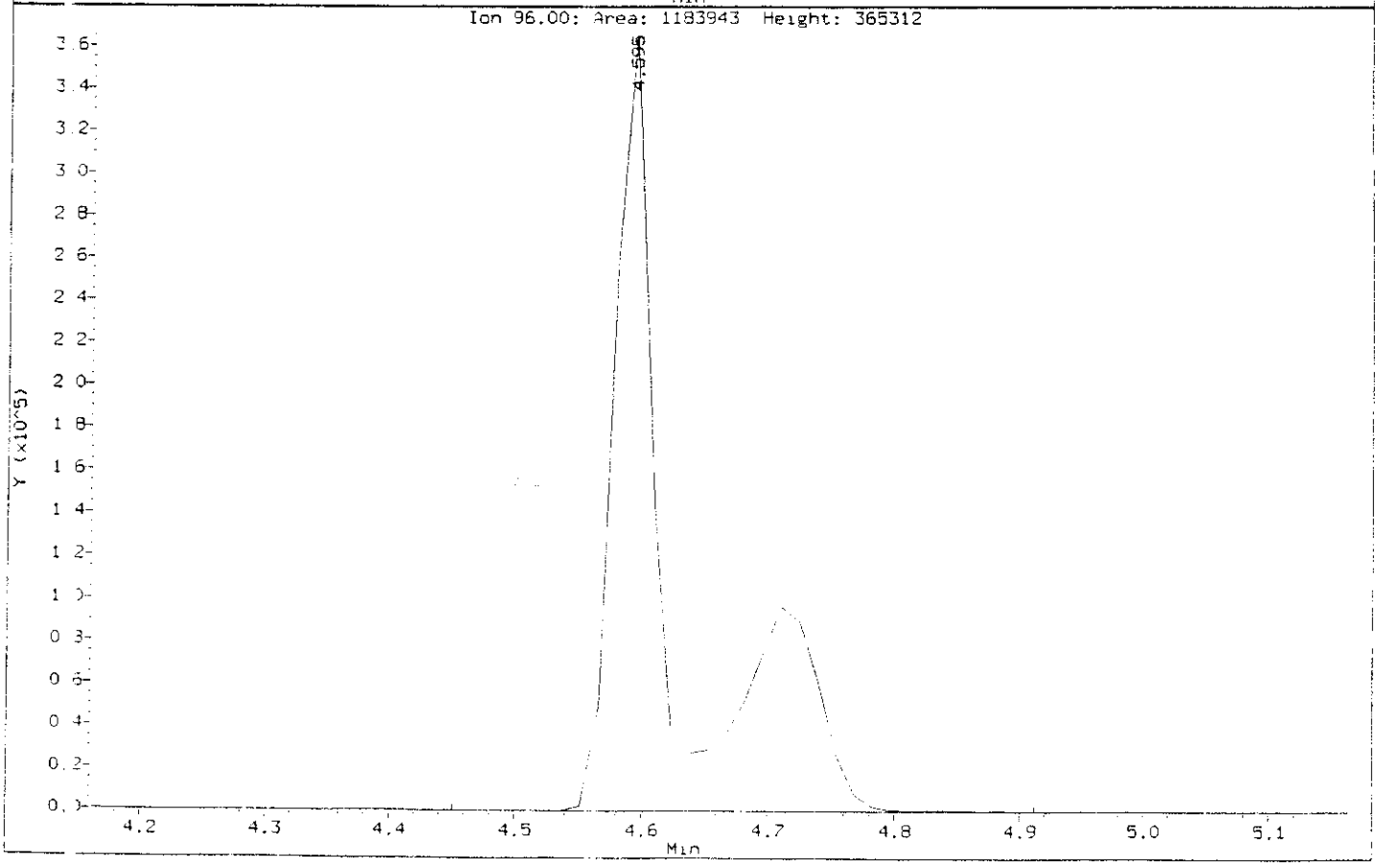




Data File: /chem/W.1/Wsvr.p/wccto14.b/cc040.d
Injection Date: 26-SEP-2000 09:48
Instrument: W.1
Client Sample ID: ASTD040

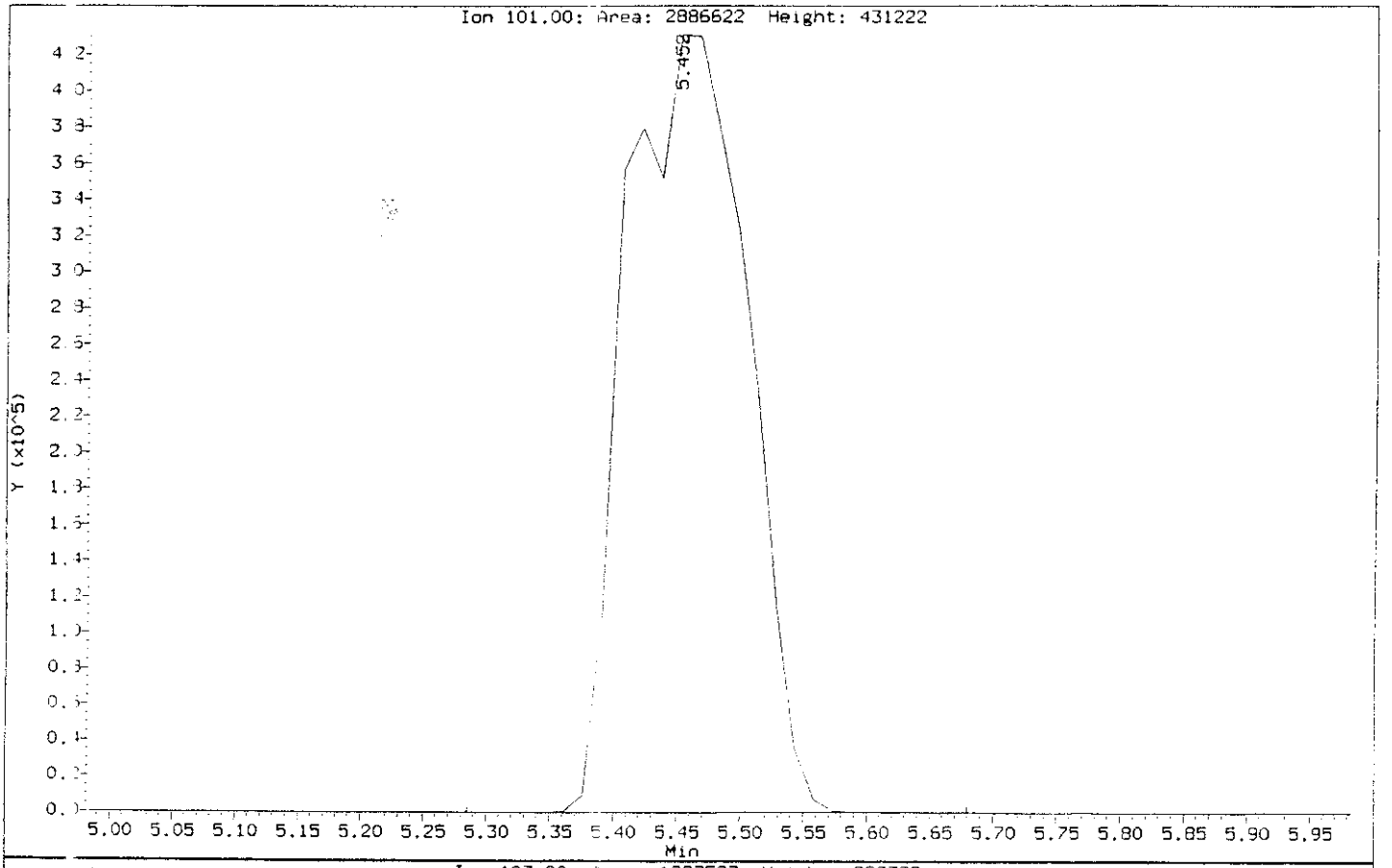
Compound: Bromomethane
CAS Number: 74-83-9

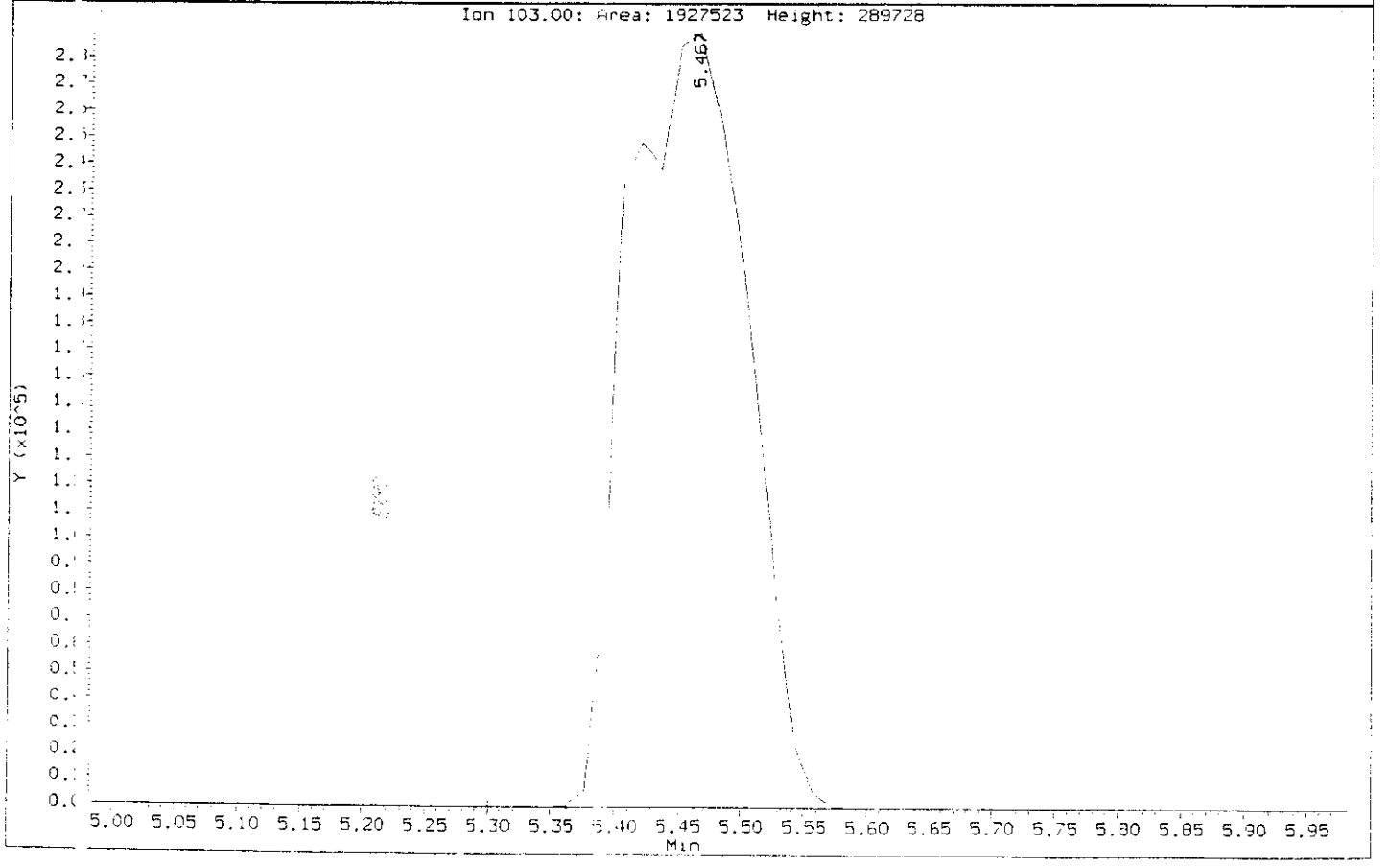




Data File: /chem/W.i/Wsvr.p/wcctol4.b/cc040.d
Injection Date: 26-SEP-2000 09:48
Instrument: W.i
Client Sample ID: ASTD040

Compound: Trichlorofluoromethane
CAS Number: 75-69-4





STL Burlington

INITIAL CALIBRATION DATA

Start Cal Date : 26-SEP-2000 08:14
End Cal Date : 26-SEP-2000 10:26
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/W.i/Wsvr.p/wccto14.b/ato14.m
Cal Date : 09-Oct-2000 11:20 cmp
Curve Type : Average

Calibration File Names:
Level 1: /chem/W.i/Wsvr.p/wccto14.b/cc0005i2.d
Level 2: /chem/W.i/Wsvr.p/wccto14.b/cc005.d
Level 3: /chem/W.i/Wsvr.p/wccto14.b/cc010.d
Level 4: /chem/W.i/Wsvr.p/wccto14.b/cc020.d
Level 5: /chem/W.i/Wsvr.p/wccto14.b/cc040.d

	Compound	0.50000 Level 1	5.000 Level 2	10.000 Level 3	20.000 Level 4	40.000 Level 5	RRF	% RSD	
1	Dichlorodifluoromethane	2.88903	2.44866	2.15195	2.05757	0.81056	2.07155	37.448	<-
2	Chloromethane	0.91976	0.66484	0.59213	0.58685	0.54052	0.66082	22.916	
3	Dichlorotetrafluoroethane	3.61558	2.60856	2.26452	2.09709	2.06961	2.53107	25.410	
4	Vinyl Chloride	0.92877	0.74137	0.68023	0.66666	0.61142	0.72569	16.890	
5	Bromomethane	1.30584	0.99062	0.88540	0.78120	0.80094	0.95280	22.456	
6	Chloroethane	0.55243	0.44911	0.39737	0.39820	0.37014	0.43345	16.698	
7	Trichlorofluoromethane	3.20821	2.20201	1.99595	1.95721	1.85030	2.24274	24.728	
8	1,1-Dichloroethene	1.13063	0.84300	0.75658	0.73453	0.70495	0.83394	20.822	
9	Methylene Chloride	1.47518	0.91116	0.84037	0.81586	0.79168	0.96685	29.752	
10	Freon TF	2.86028	1.88035	1.69246	1.65056	1.56978	1.93069	27.556	
11	1,1-Dichloroethane	2.19577	1.58267	1.40804	1.38830	1.31739	1.57843	22.720	
12	cis-1,2-Dichloroethene	1.45749	1.33295	1.19545	1.03238	1.00669	1.20499	16.035	
14	Chloroform	2.79315	2.18255	1.97395	1.76676	1.69011	2.08131	21.223	
15	1,2-Dichloroethane	1.80900	1.39907	1.30098	1.17396	1.11488	1.35958	20.187	
16	1,1,1-Trichloroethane	2.49385	2.03524	1.83725	1.67112	1.57310	1.92212	18.968	
17	Benzene	0.77553	0.67966	0.60021	0.52749	0.49437	0.61545	18.593	
18	Carbon Tetrachloride	0.58612	0.43391	0.38618	0.39775	0.36639	0.43407	20.383	
20	1,2-Dichloropropane	0.30027	0.25918	0.23036	0.17064	0.16486	0.22506	25.750	
21	Trichloroethene	0.35037	0.31668	0.27233	0.22559	0.21630	0.27625	20.875	
22	cis-1,3-Dichloropropene	0.33601	0.32487	0.30210	0.26084	0.25970	0.29670	11.944	
23	trans-1,3-Dichloropropene	0.24802	0.21636	0.20991	0.18083	0.18746	0.20852	12.765	
24	1,1,2-Trichloroethane	0.30672	0.27667	0.23904	0.17043	0.15523	0.22962	28.627	
25	Toluene	0.46850	0.51682	0.44571	0.36243	0.32663	0.42402	18.397	
26	1,2 Dibromoethane	0.44829	0.43865	0.39249	0.34984	0.34936	0.39573	11.900	
27	Tetrachloroethene	0.41743	0.39045	0.33935	0.33652	0.29373	0.35551	13.709	
29	Chlorobenzene	0.75347	0.65770	0.56556	0.50465	0.48137	0.59265	13.023	

STL Burlington

INITIAL CALIBRATION DATA

Start Cal Date : 26-SEP-2000 08:14
End Cal Date : 26-SEP-2000 10:26
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/W.i/Wsvr.p/wcct014.b/at014.m
Cal Date : 09-Oct-2000 11:20 cmp
Curve Type : Average

	Compound	0.50000 Level 1	5.000 Level 2	10.000 Level 3	20.000 Level 4	40.000 Level 5	RRF	% RSD
	30 Ethylbenzene	1.05047	1.13024	0.97788	0.77901	0.83859	0.95524	15.249
	31 Xylene (m,p)	0.40425	0.41157	0.35832	0.32561	0.33322	0.36659	10.828
	32 Styrene	0.35958	0.50846	0.47981	0.45729	0.44890	0.45081	12.416
M	33 Xylene (total)	1.20575	1.22038	1.06523	0.97793	0.99486	1.09283	10.492
	34 1,1,2,2-Tetrachloroethane	0.80047	0.67695	0.58039	0.49108	0.51521	0.61282	20.757
	35 Xylene (o)	0.39726	0.39724	0.34859	0.32671	0.32842	0.35964	9.841
	36 1,3,5-Trimethylbenzene	0.70827	0.86755	0.76802	0.72200	0.68937	0.75104	9.495
	37 1,2,4-Trimethylbenzene	0.82055	0.82243	0.73938	0.71150	0.68680	0.75613	8.266
	38 1,3-Dichlorobenzene	0.62423	0.59309	0.56682	0.55274	0.52955	0.57329	6.388
	39 1,4-Dichlorobenzene	0.64072	0.51867	0.47490	0.46967	0.45672	0.51214	14.754
	40 1,2-Dichlorobenzene	0.43122	0.45827	0.42790	0.43566	0.41919	0.43445	3.365
	41 1,2,4-Trichlorobenzene	0.12698	0.07154	0.08569	0.13080	0.12706	0.10841	25.551
	42 Hexachlorobutadiene	0.15699	0.14289	0.13269	0.14051	0.14044	0.14270	6.213

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80293

Instrument ID: W Calibration Date: 10/30/00 Time: 1009

Lab File ID: CC010K Init. Calib. Date(s): 09/26/00 09/26/00

Heated Purge: (Y/N) N Init. Calib. Times: 0814 1026

GC Column: DB-1 ID: 0.35 (mm)

COMPOUND	$\overline{RRF}$	RRF10	MIN RRF	%D	MAX %D	
Chloromethane	0.661	0.602	0.1	8.9	30.0	
Vinyl Chloride	0.726	0.683	0.01	5.9	30.0	
Bromomethane	0.953	0.919	0.01	3.6	30.0	
Chloroethane	0.433	0.383	0.01	11.5	30.0	
Trichlorofluoromethane	2.243	2.353	0.01	4.9	30.0	
Methylene Chloride	0.967	0.940	0.01	2.8	30.0	
1,1-Dichloroethane	1.578	1.655	0.1	4.9	30.0	
cis-1,2-Dichloroethene	1.205	1.272	0.01	5.6	30.0	
Chloroform	2.081	2.159	0.01	3.7	30.0	
1,1,1-Trichloroethane	1.922	2.132	0.01	10.9	30.0	
Carbon Tetrachloride	0.434	0.472	0.01	8.8	30.0	
Benzene	0.615	0.604	0.01	1.8	30.0	
1,2-Dichloroethane	1.360	1.502	0.01	10.4	30.0	
Trichloroethene	0.276	0.297	0.01	7.6	30.0	
1,2-Dichloropropane	0.225	0.228	0.01	1.3	30.0	
cis-1,3-Dichloropropene	0.297	0.357	0.01	20.2	30.0	
Toluene	0.424	0.446	0.01	5.2	30.0	
trans-1,3-Dichloropropene	0.208	0.272	0.01	30.8	30.0	<-
1,1,2-Trichloroethane	0.230	0.248	0.01	7.8	30.0	
Tetrachloroethene	0.355	0.345	0.01	2.8	30.0	
Chlorobenzene	0.593	0.576	0.3	2.9	30.0	
Ethylbenzene	0.955	1.027	0.01	7.5	30.0	
Xylene (total)	1.093	1.118	0.01	2.3	30.0	
Styrene	0.451	0.495	0.01	9.8	30.0	
Xylene (m,p)	0.367	0.374	0.01	1.9	30.0	
Xylene (o)	0.359	0.370	0.01	3.1	30.0	
1,1,2,2-Tetrachloroethane	0.613	0.616	0.01	0.5	30.0	
1,3-Dichlorobenzene	0.573	0.602	0.01	5.1	30.0	
1,4-Dichlorobenzene	0.512	0.513	0.01	0.2	30.0	
1,2-Dichlorobenzene	0.434	0.473	0.01	9.0	30.0	

Data File: /chem/W.i/Wsvr.p/wcckto14.b/cc010k.d

Date : 30-OCT-2000 10:09

Client ID: ASTD010

Sample Info: ASTD010;ASTD010

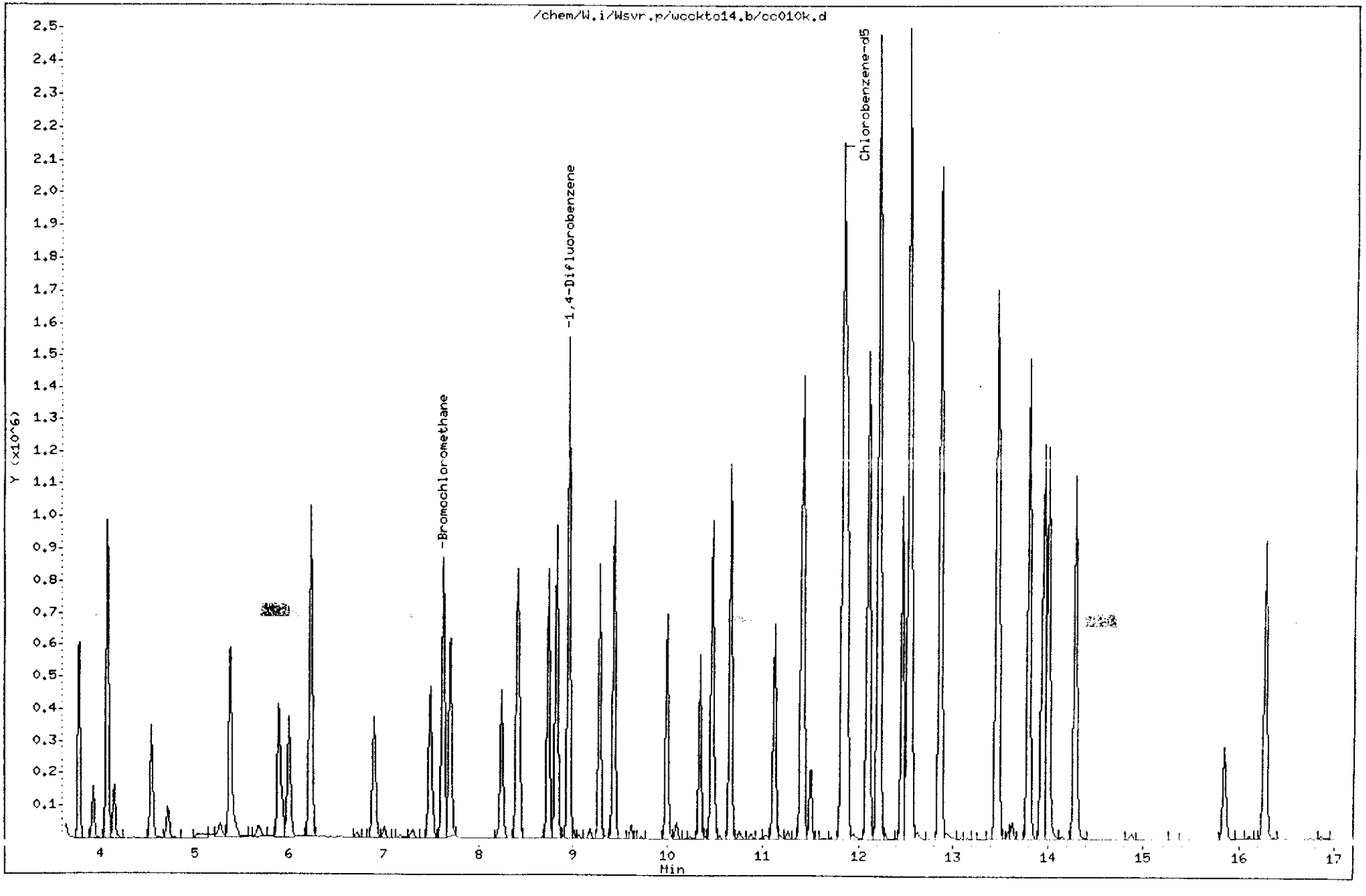
Purge Volume: 200.0

Column phase: DB-1

Instrument: W.i

Operator: GHH

Column diameter: 0.35



0059

STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcckto14.b/cc010k.d
Lab Smp Id: ASTD010 Client Smp ID: ASTD010
Inj Date : 30-OCT-2000 10:09
Operator : GMM Inst ID: W.i
Smp Info : ASTD010;ASTD010
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wcckto14.b/ato14.m
Meth Date : 06-Nov-2000 12:30 cmp Quant Type: ISTD
Cal Date : 26-SEP-2000 10:26 Cal File: cc0005i2.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA2.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
2 Chloromethane	50	3.939	4.040	(0.517)	158503	10.0000	9.1
4 Vinyl Chloride	62	4.170	4.271	(0.547)	179956	10.0000	9.4
5 Bromomethane	94	4.545	4.660	(0.596)	242215	10.0000	9.6
6 Chloroethane	64	4.718	4.833	(0.619)	101026	10.0000	8.8
7 Trichlorofluoromethane	101	5.389	5.482	(0.707)	620126	10.0000	10
8 Methylene Chloride	49	5.996	6.089	(0.787)	247719	10.0000	9.7
11 1,1-Dichloroethane	63	6.892	6.969	(0.904)	436224	10.0000	10
12 cis-1,2-Dichloroethene	61	7.499	7.561	(0.984)	335123	10.0000	10
* 13 Bromochloromethane	128	7.620	7.698	(1.000)	263512	10.0000	
14 Chloroform	83	7.711	7.774	(1.012)	568867	10.0000	10
15 1,2-Dichloroethane	62	8.242	8.305	(1.082)	395866	10.0000	11
16 1,1,1-Trichloroethane	97	8.424	8.472	(1.106)	561919	10.0000	11
17 Benzene	78	8.743	8.790	(0.976)	748331	10.0000	9.8
18 Carbon Tetrachloride	117	8.834	8.881	(0.986)	584207	10.0000	11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
* 1) 1,4-Difluorobenzene	114	8.956	9.003	(1.000)	1238524	10.0000	
2) 1,2-Dichloropropane	63	9.289	9.321	(1.037)	283067	10.0000	10
2) Trichloroethene	95	9.441	9.473	(1.054)	367788	10.0000	11
2) cis-1,3-Dichloropropene	75	10.003	10.035	(1.117)	442100	10.0000	12
2) trans-1,3-Dichloropropene	75	10.337	10.369	(1.154)	337603	10.0000	13
2) 1,1,2-Trichloroethane	83	10.473	10.490	(1.169)	306585	10.0000	11
2) Toluene	92	10.655	10.672	(0.900)	599544	10.0000	10
2) Tetrachloroethene	166	11.414	11.416	(0.964)	463626	10.0000	9.7
* 2) Chlorobenzene-d5	117	11.839	11.841	(1.000)	1344236	10.0000	
2) Chlorobenzene	112	11.869	11.871	(1.003)	774342	10.0000	9.7
3) Ethylbenzene	91	12.097	12.099	(1.022)	1380266	10.0000	11
3) Xylene (m,p)	106	12.218	12.220	(1.032)	1005940	20.0000	20
3) Styrene	104	12.461	12.463	(1.053)	665263	10.0000	11
M 3) Xylene (total)	106				1503117	10.0000	31
3) 1,1,2,2-Tetrachloroethane	83	12.537	12.524	(1.059)	827935	10.0000	10
3) Xylene (o)	106	12.552	12.539	(1.060)	497177	10.0000	10
3) 1,3-Dichlorobenzene	146	13.948	13.935	(1.178)	809091	10.0000	10
3) 1,4-Dichlorobenzene	146	13.994	13.980	(1.182)	689459	10.0000	10
4) 1,2-Dichlorobenzene	146	14.282	14.269	(1.206)	635841	10.0000	11

Data File: /chem/W.i/Wsvr.p/wcckto14.b/cc010k.d
Report Date: 06-Nov-2000 12:30

STL Burlington

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: W.i
Lab File ID: cc010k.d
Analysis Type: AIR
Lab Sample ID: ASTD010
Method: /chem/W.i/Wsvr.p/wcckto14.b/ato14.m

Injection Date: 30-OCT-2000 10:09
Init. Cal. Date(s): 26-SEP-2000 26-SEP-2000
Init. Cal. Times: 08:14 10:26
Quant Type: ISTD

	COMPOUND	RRF / AMOUNT	RF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
	2 Chloromethane	0.66082	0.60150	0.100	8.97618	30.00000	Averaged	
	4 Vinyl Chloride	0.72569	0.68291	0.010	5.89458	30.00000	Averaged	
	5 Bromomethane	0.95280	0.91918	0.010	3.52832	30.00000	Averaged	
	6 Chloroethane	0.43345	0.38338	0.010	11.55116	30.00000	Averaged	
	7 Trichlorofluoromethane	2.24274	2.35331	0.010	-4.93036	30.00000	Averaged	
	9 Methylene Chloride	0.96685	0.94007	0.010	2.77005	30.00000	Averaged	
	11 1,1-Dichloroethane	1.57843	1.65542	0.100	-4.87764	30.00000	Averaged	
	12 cis-1,2-Dichloroethene	1.20499	1.27176	0.010	-5.54069	30.00000	Averaged	
	14 Chloroform	2.08131	2.15879	0.010	-3.72287	30.00000	Averaged	
	15 1,2-Dichloroethane	1.35958	1.50227	0.010	-10.49513	30.00000	Averaged	
	16 1,1,1-Trichloroethane	1.92212	2.13242	0.010	-10.94144	30.00000	Averaged	
	17 Benzene	0.61545	0.60421	0.010	1.82677	30.00000	Averaged	
	18 Carbon Tetrachloride	0.43407	0.47170	0.010	-8.66779	30.00000	Averaged	
	20 1,2-Dichloropropane	0.22506	0.22855	0.010	-1.55055	30.00000	Averaged	
	21 Trichloroethene	0.27625	0.29696	0.010	-7.49415	30.00000	Averaged	
	22 cis-1,3-Dichloropropene	0.29670	0.35696	0.010	-20.30772	30.00000	Averaged	
	23 trans-1,3-Dichloropropene	0.20852	0.27258	0.010	-30.72627	30.00000	Averaged	<-
	24 1,1,2-Trichloroethane	0.22962	0.24754	0.010	-7.80407	30.00000	Averaged	
	25 Toluene	0.42402	0.44601	0.010	-5.18735	30.00000	Averaged	
	27 Tetrachloroethene	0.35551	0.34490	0.010	2.98427	30.00000	Averaged	
	29 Chlorobenzene	0.59265	0.57605	0.300	2.80185	30.00000	Averaged	
	30 Ethylbenzene	0.95524	1.02680	0.010	-7.49214	30.00000	Averaged	
	31 Xylene (m,p)	0.36659	0.37417	0.010	-2.06623	30.00000	Averaged	
	32 Styrene	0.45081	0.49490	0.010	-9.78037	30.00000	Averaged	
M	33 Xylene (total)	1.09283	1.11819	0.010	-2.32096	30.00000	Averaged	
	34 1,1,2,2-Tetrachloroethane	0.61282	0.61591	0.010	-0.50496	30.00000	Averaged	
	35 Xylene (o)	0.35964	0.36986	0.010	-2.84027	30.00000	Averaged	
	38 1,3-Dichlorobenzene	0.57329	0.60190	0.010	-4.99030	30.00000	Averaged	
	39 1,4-Dichlorobenzene	0.51214	0.51290	0.010	-0.14896	30.00000	Averaged	
	40 1,2-Dichlorobenzene	0.43445	0.47301	0.010	-8.87673	30.00000	Averaged	

SEVERN
TRENT
SERVICES

Severn Trent Laboratories, Inc.

METHOD TO-14A
VOLATILE ORGANIC ANALYSIS

RAW QC DATA

Data File: /chem/W.i/Wsvr.p/wcctc14.b/cc001p.d

Date : 26-SEP-2000 07:24

Client ID: WBFB001

Instrument: W.i

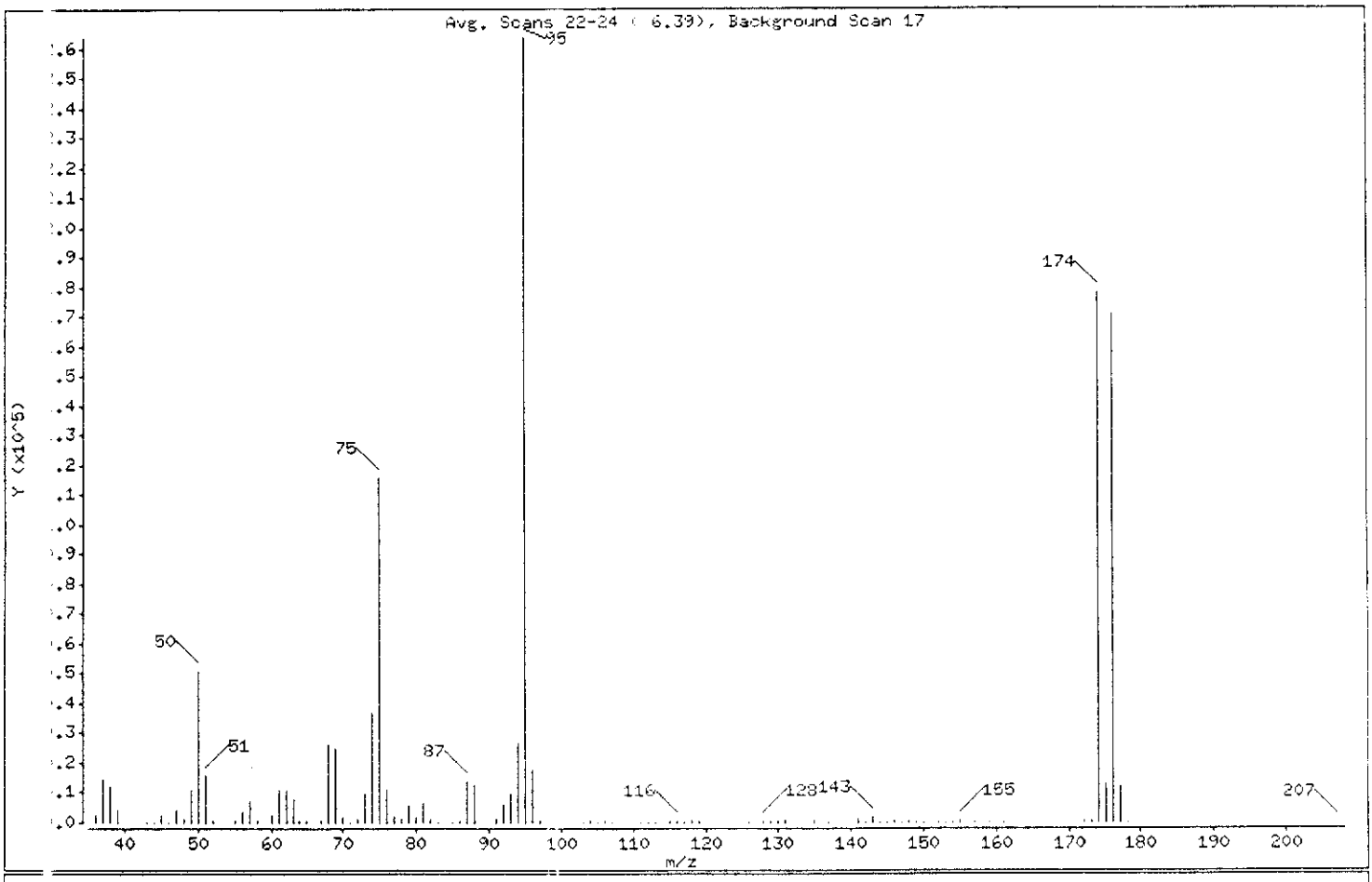
Sample Info: WBFB001

Operator: GMM

Column phase: DB-1

Column diameter: 0.32

$ 1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	19.35
75	30.00 - 66.00% of mass 95	44.01
96	5.00 - 9.00% of mass 95	6.66
173	Less than 2.00% of mass 174	0.24 (0.36)
174	50.00 - 120.00% of mass 95	67.53
175	4.00 - 9.00% of mass 174	4.80 (7.11)
176	93.00 - 101.00% of mass 174	64.83 (96.01)
177	5.00 - 9.00% of mass 176	4.52 (6.97)

Data File: /chem/W.i/Wsvr.p/wccto14.b/cc001p.d

Date : 26-SEP-2000 07:24

Client ID: WBFB001 Instrument: W.i

Sample Info: WBFB001

Operator: GMM

Column phase: DB-1 Column diameter: 0.32

Data File: cc001p.d
Spectrum: Avg. Scans 22-24 (6.39), Background Scan 17
Location of Maximum: 95.00
Number of points: 97

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2721	68.00	25976	96.00	17552	144.00	54
37.00	14303	69.00	24936	97.00	430	145.00	169
38.00	11927	70.00	1930	103.00	50	146.00	325
39.00	4455	71.00	66	104.00	872	147.00	69
43.00	63	72.00	1367	105.00	285	148.00	476
44.00	196	73.00	9994	106.00	880	149.00	112
45.00	2225	74.00	36944	107.00	176	150.00	125
46.00	252	75.00	115968	111.00	52	152.00	72
47.00	4031	76.00	10642	112.00	110	153.00	155
48.00	1497	77.00	1581	113.00	79	154.00	72
49.00	10731	78.00	919	115.00	313	155.00	471
50.00	50976	79.00	6285	116.00	729	157.00	249
51.00	15487	80.00	1701	117.00	227	159.00	207
52.00	636	81.00	6667	118.00	519	161.00	219
55.00	555	82.00	923	119.00	529	172.00	437
56.00	3654	83.00	200	126.00	119	173.00	636
57.00	7286	85.00	115	128.00	867	174.00	177920
58.00	467	86.00	381	129.00	333	175.00	12649
60.00	2338	87.00	13807	130.00	909	176.00	170816
61.00	10699	88.00	12904	131.00	311	177.00	11907
62.00	10614	91.00	978	135.00	359	178.00	285
63.00	7786	92.00	6131	137.00	211	207.00	211
64.00	790	93.00	9442	141.00	1293		
65.00	310	94.00	26952	142.00	143		
67.00	694	95.00	263488	143.00	1538		

Data File: /chem/W.i/Wsvr.p/wccto14.b/cc001p.d

Date : 26-SEP-2000 07:24

Client ID: WBFB001

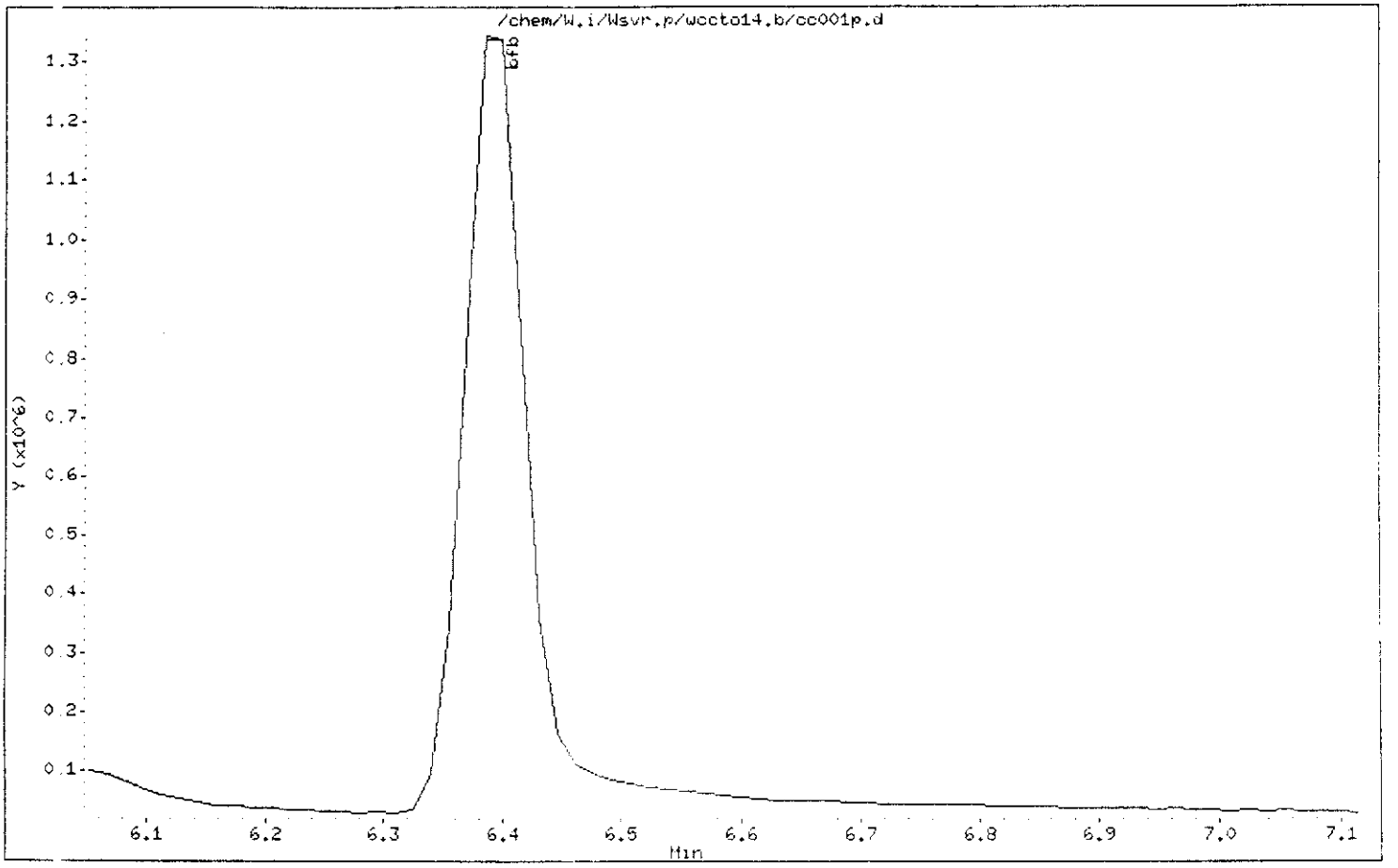
Instrument: W.i

Sample Info: WBFB001

Operator: GHM

Column phase: DB-1

Column diameter: 0.32



Data File: /chem/W.i/Wsvr.p/wcckto14.b/cc011p.d

Date : 30-OCT-2000 09:47

Client ID: WBFB011

Instrument: W.i

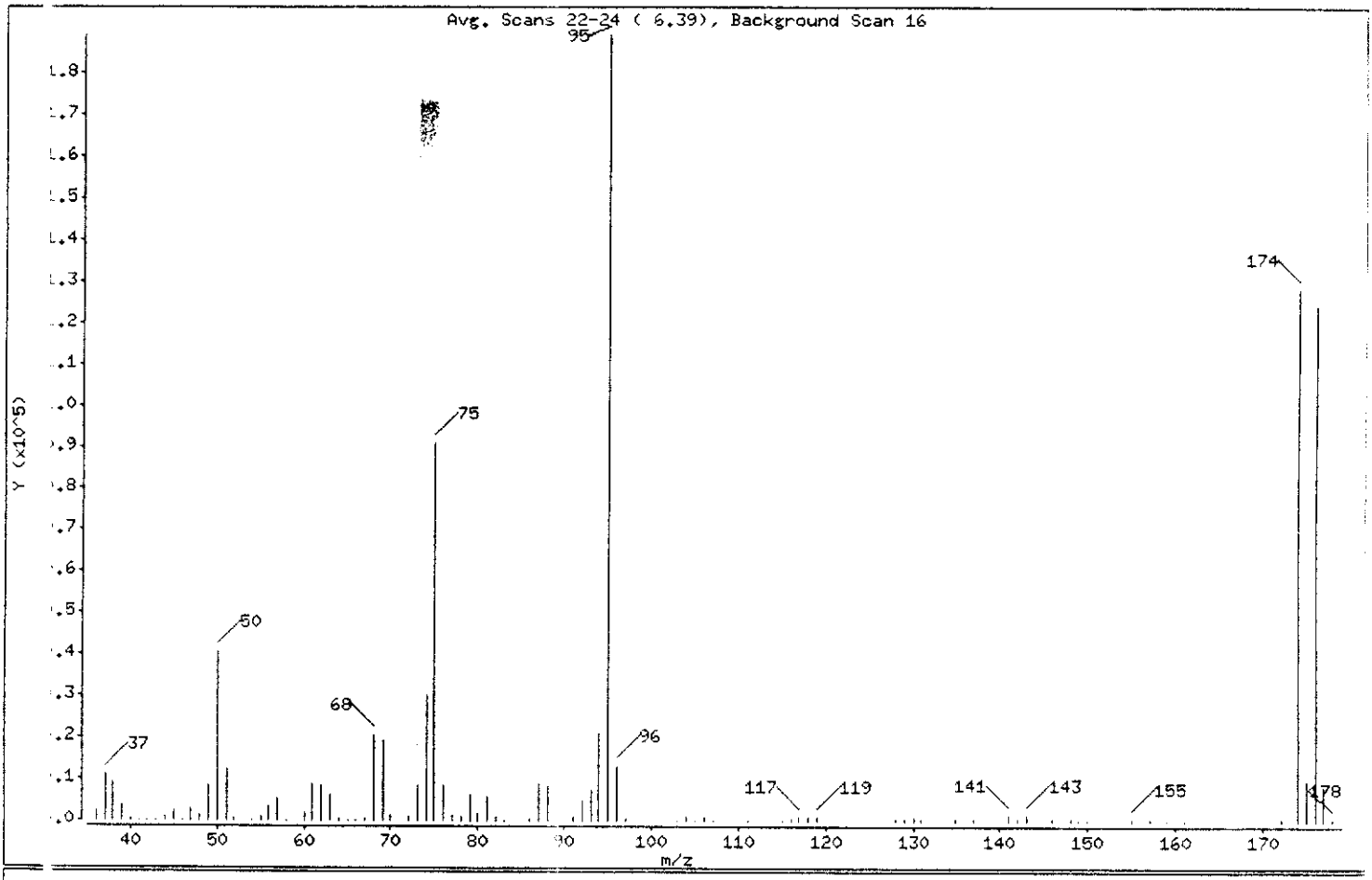
Sample Info: WBFB011

Operator: GMH

Column phase: DB-1

Column diameter: 0.32

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	21.35
75	30.00 - 66.00% of mass 95	47.96
96	5.00 - 9.00% of mass 95	6.79
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 120.00% of mass 95	67.83
175	4.00 - 9.00% of mass 174	5.01 (7.38)
176	93.00 - 101.00% of mass 174	65.64 (96.78)
177	5.00 - 9.00% of mass 176	4.29 (6.53)

Data File: /chem/W.i/Wsvr.p/wcckto14.b/cc011p.d

Date : 30-OCT-2000 09:47

Client ID: WBFB011 Instrument: W.i

Sample Info: WBFB011

Operator: GMM

Column phase: DB-1 Column diameter: 0.32

Data File: cc011p.d

Spectrum: Avg. Scans 22-24 (6.39), Background Scan 16

Location of Maximum: 95.00

Number of points: 89

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2215	61.00	8836	87.00	8530	131.00	258
37.00	10954	62.00	8266	88.00	8100	135.00	254
38.00	9220	63.00	6066	91.00	663	137.00	252
39.00	3569	64.00	606	92.00	4827	141.00	1343
40.00	311	65.00	138	93.00	7553	142.00	231
41.00	171	66.00	108	94.00	21024	143.00	1467
42.00	75	67.00	497	95.00	189184	146.00	238
43.00	157	68.00	20296	96.00	12851	148.00	389
44.00	656	69.00	19168	97.00	372	149.00	53
45.00	1997	70.00	1491	103.00	51	150.00	134
46.00	66	72.00	1050	104.00	695	155.00	345
47.00	2547	73.00	8173	105.00	217	157.00	278
48.00	1477	74.00	30048	106.00	741	159.00	68
49.00	8299	75.00	90728	107.00	168	161.00	56
50.00	40384	76.00	8094	111.00	67	172.00	283
51.00	12035	77.00	1213	115.00	173	174.00	128320
52.00	588	78.00	703	116.00	639	175.00	9474
54.00	116	79.00	6263	117.00	812	176.00	124184
55.00	782	80.00	1721	118.00	672	177.00	8115
56.00	3414	81.00	5681	119.00	990	178.00	290
57.00	5433	82.00	783	128.00	640		
58.00	208	83.00	170	129.00	299		
60.00	1757	86.00	232	130.00	715		

Data File: /chem/W.i/Wsvr.p/wcckto14.b/cc011p.d

Date : 30-OCT-2000 09:47

Client ID: WBFB011

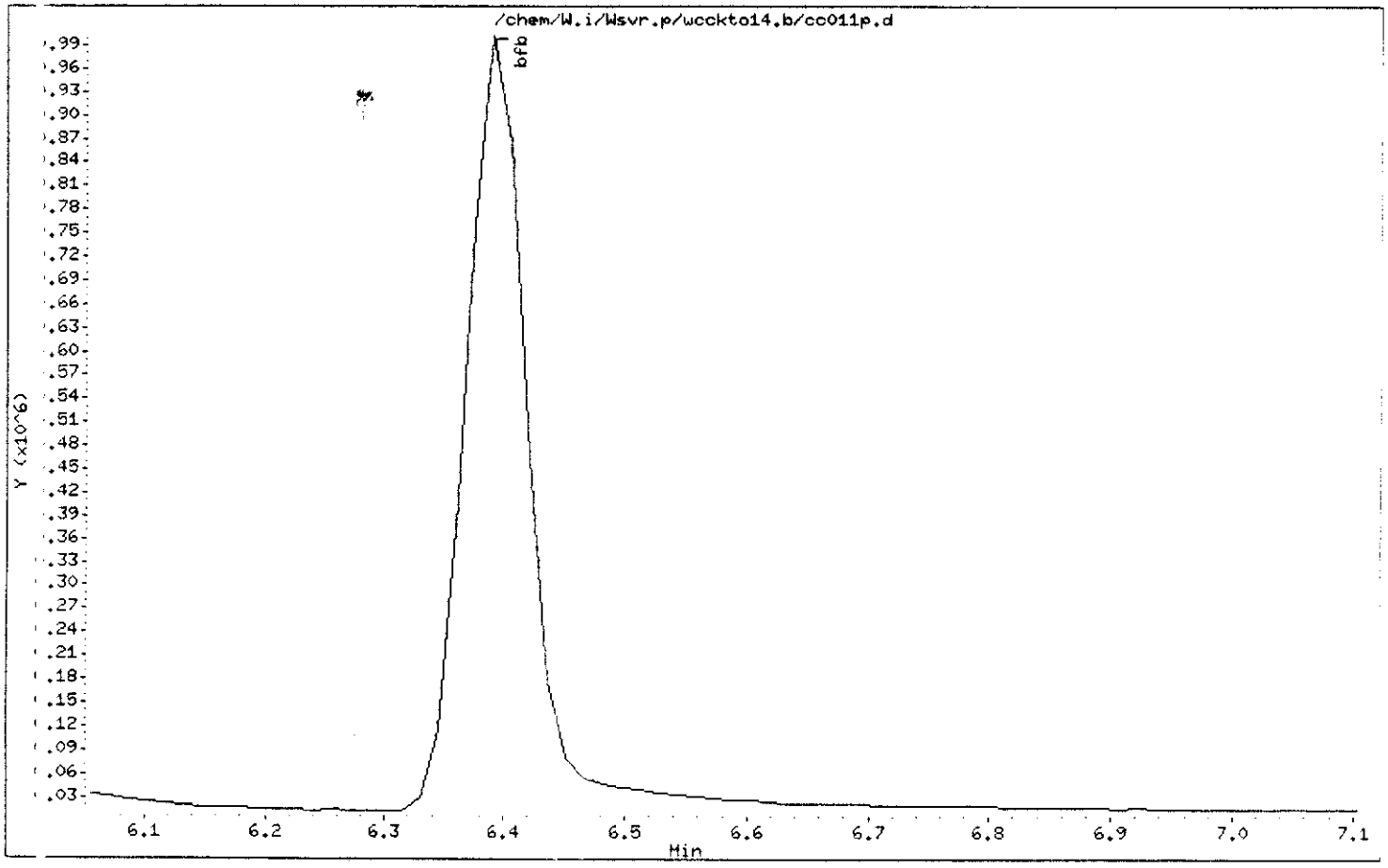
Instrument: W.i

Sample Info: WBFB011

Operator: GMM

Column phase: DB-1

Column diameter: 0.32



FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

STLVT SAMPLE NO.

ABLKE1

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80293

Matrix: (soil/water) AIR Lab Sample ID: ABLKE1

Sample wt/vol: 200 (g/mL) ML Lab File ID: CCB001K

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 10/30/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-09-2	Methylene Chloride	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
1330-20-7	Xylene (m,p)	0.50	U
95-47-6	Xylene (o)	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

STLVT SAMPLE NO.

ABLKE1

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80293

Matrix: (soil/water) AIR Lab Sample ID: ABLKE1

Sample wt/vol: 200 (g/mL) ML Lab File ID: CCB001K

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 10/30/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ppbv

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
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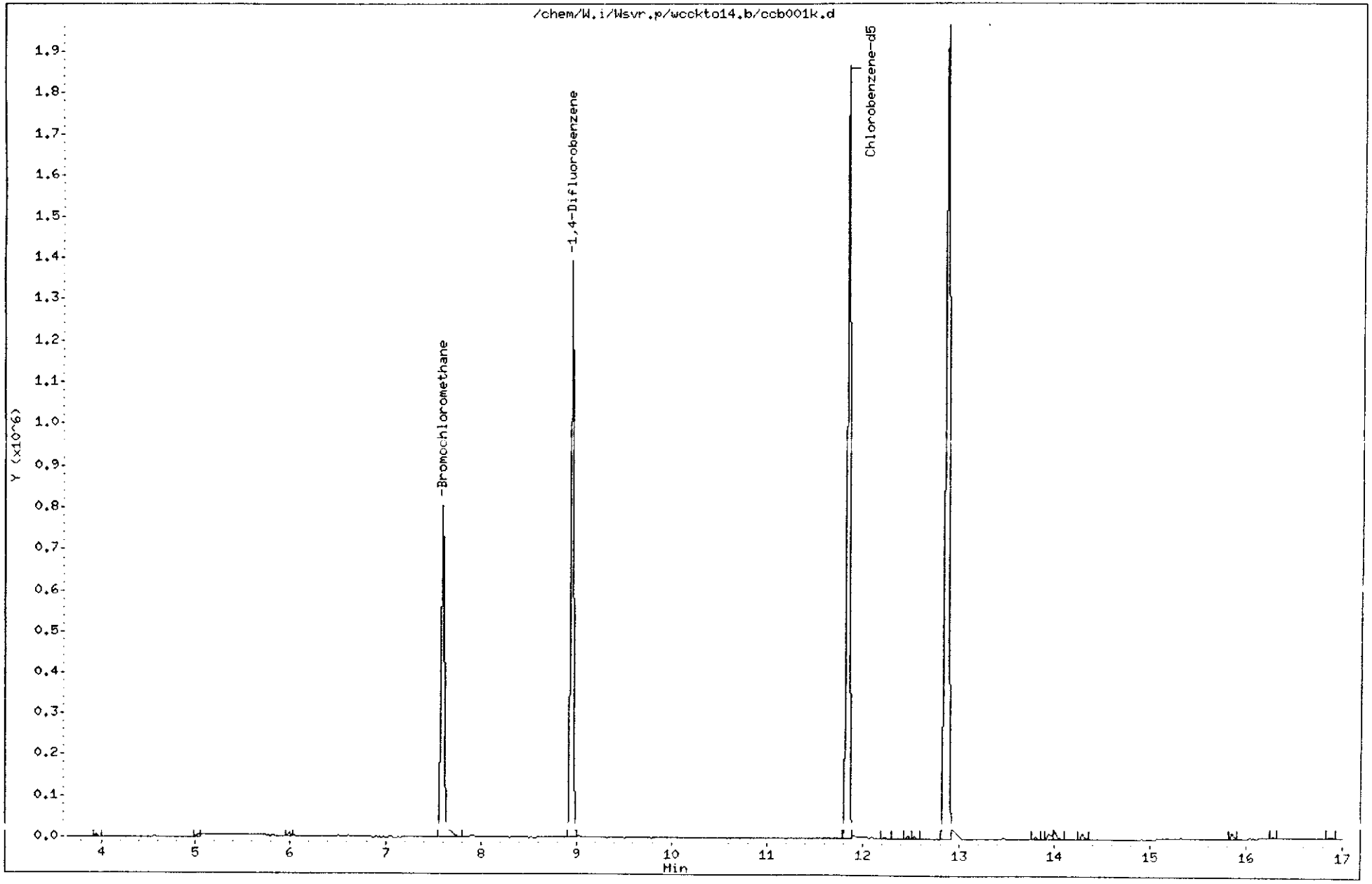
24.				
25.				
26.				
27.				
28.				
29.				
30.				

Data File: /chem/W.i/Wsvr.p/wcckto14.b/ccb001k.d
Date : 30-OCT-2000 11:13
Client ID: ABLKE1
Sample Info: ABLKE1;ABLKE1;;1030E1
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i
Operator: GMM
Column diameter: 0.35



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STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcckto14.b/ccb001k.d
Lab Smp Id: ABLKE1 Client Smp ID: ABLKE1
Inj Date : 30-OCT-2000 11:13
Operator : GMM Inst ID: W.i
Smp Info : ABLKE1;ABLKE1;;1030E1
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wcckto14.b/ato14.m
Meth Date : 06-Nov-2000 12:30 cmp Quant Type: ISTD
Cal Date : 26-SEP-2000 10:26 Cal File: cc0005i2.d
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA2.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
2 Chloromethane	50	Compound Not Detected.					
4 Vinyl Chloride	62	Compound Not Detected.					
5 Bromomethane	94	Compound Not Detected.					
6 Chloroethane	64	Compound Not Detected.					
7 Trichlorofluoromethane	101	Compound Not Detected.					
9 Methylene Chloride	49	Compound Not Detected.					
11 1,1-Dichloroethane	63	Compound Not Detected.					
12 cis-1,2-Dichloroethene	61	Compound Not Detected.					
* 13 Bromochloromethane	128	7.590	7.698	(1.000)	271817	10.0000	
14 Chloroform	83	Compound Not Detected.					
15 1,2-Dichloroethane	62	Compound Not Detected.					
16 1,1,1-Trichloroethane	97	Compound Not Detected.					
17 Benzene	78	Compound Not Detected.					
18 Carbon Tetrachloride	117	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
*	9 1,4-Difluorobenzene	114	8.941	9.003	(1.000)	1273746	10.0000	
	0 1,2-Dichloropropane	63	Compound Not Detected.					
	1 Trichloroethene	95	Compound Not Detected.					
	2 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	3 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	4 1,1,2-Trichloroethane	83	Compound Not Detected.					
	5 Toluene	92	Compound Not Detected.					
	7 Tetrachloroethene	166	Compound Not Detected.					
*	8 Chlorobenzene-d5	117	11.840	11.841	(1.000)	1356799	10.0000	
	9 Chlorobenzene	112	Compound Not Detected.					
	0 Ethylbenzene	91	Compound Not Detected.					
	1 Xylene (m,p)	106	Compound Not Detected.					
	2 Styrene	104	Compound Not Detected.					
M	3 Xylene (total)	106	Compound Not Detected.					
	4 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	5 Xylene (o)	106	Compound Not Detected.					
	8 1,3-Dichlorobenzene	146	Compound Not Detected.					
	9 1,4-Dichlorobenzene	146	Compound Not Detected.					
	0 1,2-Dichlorobenzene	146	Compound Not Detected.					

STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcckto14.b/ccb001k.d
Lab Smp Id: ABLKE1 Client Smp ID: ABLKE1
Inj Date : 30-OCT-2000 11:13
Operator : GMM Inst ID: W.i
Smp Info : ABLKE1;ABLKE1;;1030E1
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wcckto14.b/ato14.m
Meth Date : 05-Nov-2000 15:37 cmp Quant Type: ISTD
Cal Date : 26-SEP-2000 10:26 Cal File: cc0005i2.d
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA.sub
Target Version: 3.50
Processing Host: chemsvr4

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

STLVT SAMPLE NO.

Y6_ICVLCS

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80293

Matrix: (soil/water) AIR Lab Sample ID: Y6_ICVLCS

Sample wt/vol: 200 (g/mL) ML Lab File ID: CC010Q

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 09/26/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

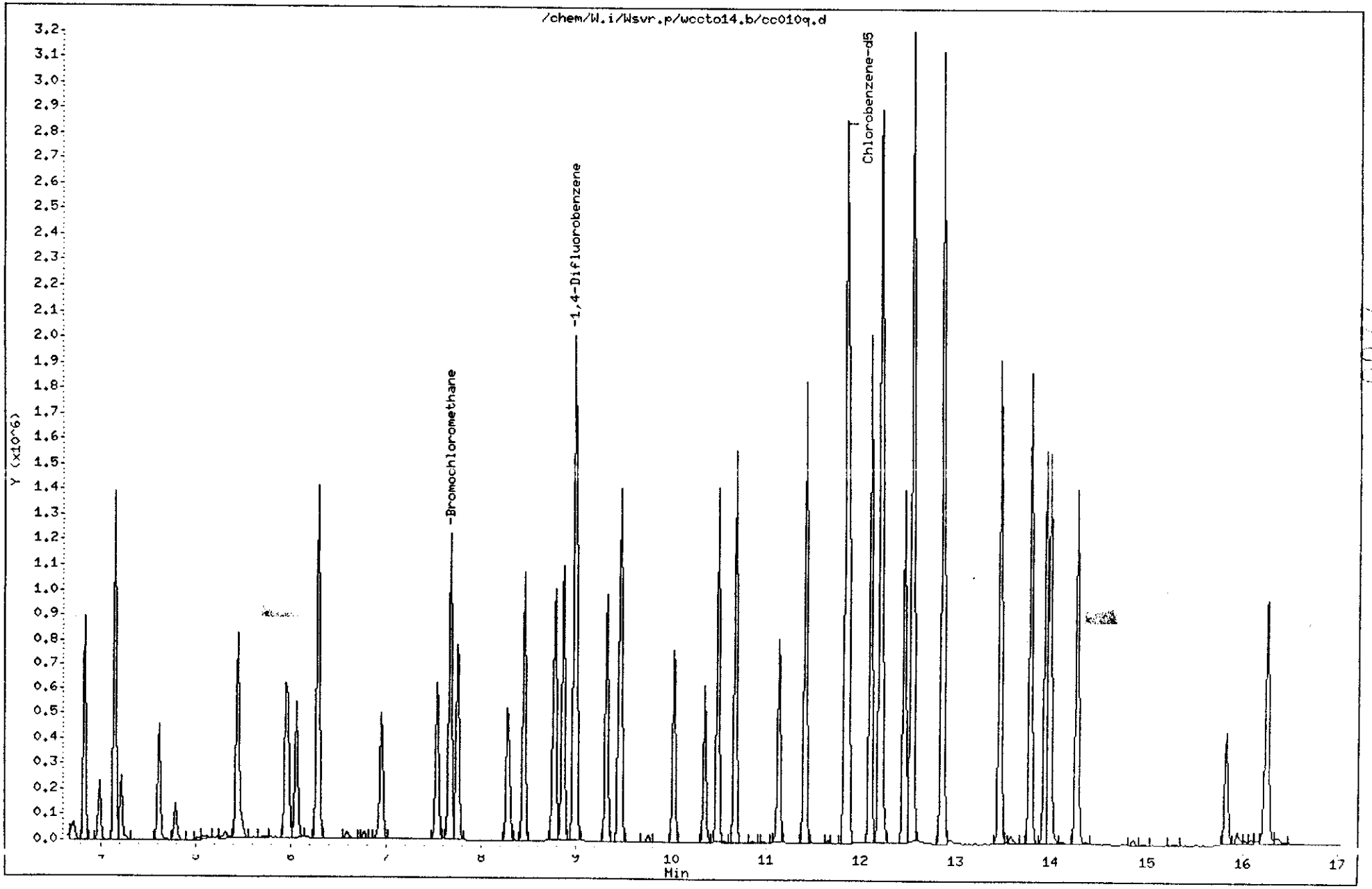
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	9.3	
75-01-4	Vinyl Chloride	9.5	
74-83-9	Bromomethane	10	
75-00-3	Chloroethane	10	
75-69-4	Trichlorofluoromethane	10	
75-09-2	Methylene Chloride	9.5	
75-34-3	1,1-Dichloroethane	9.8	
156-59-2	cis-1,2-Dichloroethene	9.8	
67-66-3	Chloroform	9.7	
71-55-6	1,1,1-Trichloroethane	9.6	
56-23-5	Carbon Tetrachloride	9.7	
71-43-2	Benzene	9.8	
107-06-2	1,2-Dichloroethane	9.7	
79-01-6	Trichloroethene	10	
78-87-5	1,2-Dichloropropane	10	
10061-01-5	cis-1,3-Dichloropropene	11	
108-88-3	Toluene	10	
10061-02-6	trans-1,3-Dichloropropene	10	
79-00-5	1,1,2-Trichloroethane	11	
127-18-4	Tetrachloroethene	9.0	
108-90-7	Chlorobenzene	9.4	
100-41-4	Ethylbenzene	10	
1330-20-7	Xylene (total)	29	
100-42-5	Styrene	10	
1330-20-7	Xylene (m,p)	19	
95-47-6	Xylene (o)	9.6	
79-34-5	1,1,2,2-Tetrachloroethane	9.8	
541-73-1	1,3-Dichlorobenzene	9.8	
106-46-7	1,4-Dichlorobenzene	9.7	
95-50-1	1,2-Dichlorobenzene	10	

Data File: /chem/W.i/Wsvr.p/wccto14.b/cc010q.d
Date : 26-SEP-2000 11:54
Client ID: Y6_ICV
Sample Info: Y6_ICVLCS
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i

Operator: GMM
Column diameter: 0.35



STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcctol4.b/cc010q.d
Lab Smp Id: Y6_ICV Client Smp ID: Y6_ICV
Inj Date : 26-SEP-2000 11:54
Operator : GMM Inst ID: W.i
Smp Info : Y6_ICVLCS
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wcctol4.b/atol4.m
Meth Date : 09-Oct-2000 12:02 cmp Quant Type: ISTD
Cal Date : 26-SEP-2000 10:26 Cal File: cc0005i2.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
		Dichlorodifluoromethane	85	3.838	3.881	(0.501)	852794	11.2085	11
		Chloromethane	50	3.997	4.040	(0.521)	225832	9.30468	9.3
		Dichlorotetrafluoroethane	85	4.155	4.198	(0.542)	885356	9.52382	9.5
		Vinyl Chloride	62	4.227	4.271	(0.551)	252533	9.47469	9.5
		Bromomethane	94	4.617	4.660	(0.602)	355561	10.1604	10
		Chloroethane	64	4.790	4.833	(0.625)	159192	9.99951	10
		Trichlorofluoromethane	101	5.450	5.482	(0.711)	824757	10.0126	10
		1,1-Dichloroethene	96	5.966	5.999	(0.778)	310363	10.1329	10
		Methylene Chloride	49	6.057	6.089	(0.790)	338324	9.52735	9.5
	1	Freon TF	101	6.285	6.317	(0.820)	698396	9.84890	9.8
	1	1,1-Dichloroethane	63	6.938	6.969	(0.905)	570924	9.84805	9.8
	1	cis-1,2-Dichloroethene	61	7.529	7.561	(0.982)	431710	9.75453	9.8
*	1	Bromochloromethane	128	7.666	7.698	(1.000)	367284	10.0000	
	1	Chloroform	83	7.742	7.774	(1.010)	741623	9.70164	9.7

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
	15 1,2-Dichloroethane	62	8.273	8.305	(1.079)	484422	9.70101	9.7
	16 1,1,1-Trichloroethane	97	8.455	8.472	(1.103)	680932	9.64544	9.6
	17 Benzene	78	8.774	8.790	(0.976)	1003825	9.80817	9.8
	18 Carbon Tetrachloride	117	8.865	8.881	(0.986)	699514	9.69084	9.7
*	19 1,4-Difluorobenzene	114	8.986	9.003	(1.000)	1662929	10.0000	
	20 1,2-Dichloropropane	63	9.320	9.321	(1.037)	392174	10.4786	10
	21 Trichloroethene	95	9.457	9.473	(1.052)	462379	10.0651	10
	22 cis-1,3-Dichloropropene	75	10.018	10.035	(1.115)	526190	10.6646	11
	23 trans-1,3-Dichloropropene	75	10.352	10.369	(1.152)	364122	10.5011	10
	24 1,1,2-Trichloroethane	83	10.489	10.490	(1.167)	408671	10.7026	11
	25 Toluene	92	10.671	10.672	(0.901)	769052	10.1551	10
	26 1,2-Dibromoethane	107	11.126	11.143	(0.940)	689824	9.76007	9.8
	27 Tetrachloroethene	166	11.414	11.416	(0.964)	573388	9.03048	9.0
*	28 Chlorobenzene-d5	117	11.839	11.841	(1.000)	1786026	10.0000	
	29 Chlorobenzene	112	11.870	11.871	(1.003)	992216	9.37387	9.4
	30 Ethylbenzene	91	12.097	12.099	(1.022)	1724238	10.1065	10
	31 Xylene (m,p)	106	12.219	12.220	(1.032)	1264507	19.3130	19
	32 Styrene	104	12.462	12.463	(1.053)	834283	10.3617	10
M	33 Xylene (total)	106				1883297	28.9464	29
	34 1,1,2,2-Tetrachloroethane	83	12.522	12.524	(1.058)	1076583	9.83618	9.8
	35 Xylene (o)	106	12.537	12.539	(1.059)	618790	9.63348	9.6
	36 1,3,5-Trimethylbenzene	105	13.448	13.449	(1.136)	1374275	10.2452	10
	37 1,2,4-Trimethylbenzene	105	13.782	13.783	(1.164)	1341488	9.93350	9.9
	38 1,3-Dichlorobenzene	146	13.934	13.935	(1.177)	1002167	9.78768	9.8
	39 1,4-Dichlorobenzene	146	13.979	13.980	(1.181)	888943	9.71851	9.7
	40 1,2-Dichlorobenzene	146	14.267	14.269	(1.205)	785231	10.1198	10
	41 1,2,4-Trichlorobenzene	180	15.831	15.832	(1.337)	192811	9.95777	10
	42 Hexachlorobutadiene	225	16.255	16.257	(1.373)	248382	9.74538	9.7

STL Burlington

RECOVERY REPORT

Client Name:
Sample Matrix: GAS
Lab Smp Id: Y6_ICV
Level: LOW
Data Type: MS DATA
SpikeList File: all.spk
Sublist File: all.sub
Method File: /chem/W.i/Wsvr.p/wcctol4.b/atol4.m
Misc Info:

Client SDG: wcctol4
Fraction: VOA
Client Smp ID: Y6_ICV
Operator: GMM
SampleType: LCS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ppbv	CONC RECOVERED ppbv	% RECOVERED	LIMITS
1 Dichlorodifluorome	10	11	112.08	70-130
2 Chloromethane	10	9.3	93.05	70-130
3 Dichlorotetrafluor	10	9.5	95.24	70-130
4 Vinyl Chloride	10	9.5	94.75	70-130
5 Bromomethane	10	10	101.60	70-130
6 Chloroethane	10	10	100.00	70-130
7 Trichlorofluoromet	10	10	100.13	70-130
8 1,1-Dichloroethene	10	10	101.33	70-130
9 Methylene Chloride	10	9.5	95.27	70-130
10 Freon TF	10	9.8	98.49	70-130
11 1,1-Dichloroethane	10	9.8	98.48	70-130
12 cis-1,2-Dichloroet	10	9.8	97.55	70-130
14 Chloroform	10	9.7	97.02	70-130
15 1,2-Dichloroethane	10	9.7	97.01	70-130
16 1,1,1-Trichloroeth	10	9.6	96.45	70-130
17 Benzene	10	9.8	98.08	70-130
18 Carbon Tetrachlori	10	9.7	96.91	70-130
20 1,2-Dichloropropan	10	10	104.79	70-130
21 Trichloroethene	10	10	100.65	70-130
22 cis-1,3-Dichloropr	10	11	106.65	70-130
23 trans-1,3-Dichloro	10	10	105.01	70-130
24 1,1,2-Trichloroeth	10	11	107.03	70-130
25 Toluene	10	10	101.55	70-130
26 1,2-Dibromoethane	10	9.8	97.60	70-130
27 Tetrachloroethene	10	9.0	90.30	70-130
29 Chlorobenzene	10	9.4	93.74	70-130
30 Ethylbenzene	10	10	101.06	70-130
31 Xylene (m,p)	20	19	96.56	70-130
32 Styrene	10	10	103.62	70-130
34 1,1,2,2-Tetrachlor	10	9.8	98.36	70-130
35 Xylene (o)	10	9.6	96.33	70-130
36 1,3,5-Trimethylben	10	10	102.45	70-130
37 1,2,4-Trimethylben	10	9.9	99.33	70-130

SPIKE COMPOUND	CONC ADDED ppbv	CONC RECOVERED ppbv	% RECOVERED	LIMITS
38 1,3-Dichlorobenzen	10	9.8	97.88	70-130
39 1,4-Dichlorobenzen	10	9.7	97.19	70-130
40 1,2-Dichlorobenzen	10	10	101.20	70-130
41 1,2,4-Trichloroben	10	10	99.58	70-130
42 Hexachlorobutadien	10	9.7	97.45	70-130

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

STLVT SAMPLE NO.

E1_LCS

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80293

Matrix: (soil/water) AIR Lab Sample ID: E1_LCS

Sample wt/vol: 200 (g/mL) ML Lab File ID: CC010KQ

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 10/30/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	8.5	
75-01-4	Vinyl Chloride	8.8	
74-83-9	Bromomethane	8.8	
75-00-3	Chloroethane	8.4	
75-69-4	Trichlorofluoromethane	9.3	
75-09-2	Methylene Chloride	9.2	
75-34-3	1,1-Dichloroethane	9.6	
156-59-2	cis-1,2-Dichloroethene	9.7	
67-66-3	Chloroform	9.6	
71-55-6	1,1,1-Trichloroethane	10	
56-23-5	Carbon Tetrachloride	9.8	
71-43-2	Benzene	9.0	
107-06-2	1,2-Dichloroethane	10	
79-01-6	Trichloroethene	9.8	
78-87-5	1,2-Dichloropropane	9.2	
10061-01-5	cis-1,3-Dichloropropene	10	
108-88-3	Toluene	9.5	
10061-02-6	trans-1,3-Dichloropropene	11	
79-00-5	1,1,2-Trichloroethane	9.8	
127-18-4	Tetrachloroethene	8.9	
108-90-7	Chlorobenzene	8.9	
100-41-4	Ethylbenzene	9.9	
1330-20-7	Xylene (total)	28	
100-42-5	Styrene	10	
1330-20-7	Xylene (m,p)	18	
95-47-6	Xylene (o)	9.3	
79-34-5	1,1,2,2-Tetrachloroethane	9.3	
541-73-1	1,3-Dichlorobenzene	9.7	
106-46-7	1,4-Dichlorobenzene	9.6	
95-50-1	1,2-Dichlorobenzene	10	

Data File: /chem/W.i/Wsvr.p/wcckto14.b/cc010kq.d

Date : 30-OCT-2000 10:41

Client ID: E1_LCS

Sample Info: E1_LCS;E1_LCS

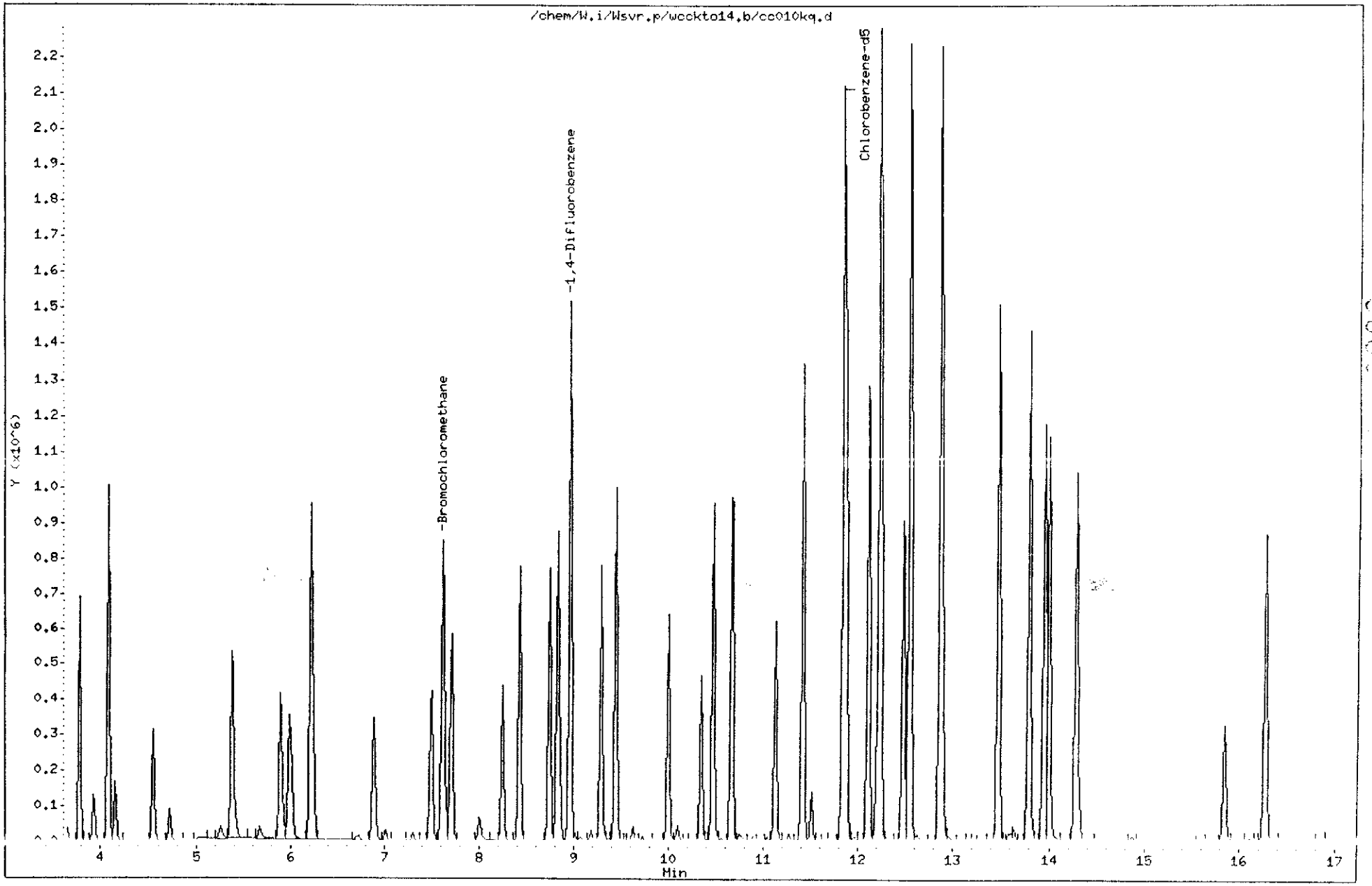
Purge Volume: 200.0

Column phase: DB-1

Instrument: W.i

Operator: GMM

Column diameter: 0.35



STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcckto14.b/cc010kq.d
Lab Smp Id: E1_LCS
Client Smp ID: E1_LCS
Inj Date : 30-OCT-2000 10:41
Operator : GMM
Inst ID: W.i
Smp Info : E1_LCS;E1_LCS
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wcckto14.b/ato14.m
Meth Date : 06-Nov-2000 12:30 cmp
Quant Type: ISTD
Cal Date : 26-SEP-2000 10:26
Cal File: cc0005i2.d
Als bottle: 1
QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE
Compound Sublist: ACCANA2.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
	Chloromethane	50	3.925	4.040	(0.515)	147985	8.49762	8.5
	Vinyl Chloride	62	4.156	4.271	(0.545)	169328	8.85399	8.8
	Bromomethane	94	4.545	4.660	(0.596)	220362	8.77602	8.8
	Chloroethane	64	4.718	4.833	(0.619)	96482	8.44632	8.4
	Trichlorofluoromethane	101	5.375	5.482	(0.705)	551242	9.32665	9.3
	Methylene Chloride	49	5.997	6.089	(0.787)	233530	9.16528	9.2
1	1,1-Dichloroethane	63	6.893	6.969	(0.904)	397319	9.55157	9.6
1	cis-1,2-Dichloroethene	61	7.500	7.561	(0.984)	309453	9.74479	9.7
* 1	Bromochloromethane	128	7.621	7.698	(1.000)	263535	10.0000	
1	Chloroform	83	7.712	7.774	(1.012)	524639	9.56503	9.6
1	1,2-Dichloroethane	62	8.243	8.305	(1.082)	358422	10.0035	10
1	1,1,1-Trichloroethane	97	8.425	8.472	(1.106)	515401	10.1748	10
1	Benzene	78	8.744	8.790	(0.976)	688910	8.95342	9.0
1	Carbon Tetrachloride	117	8.835	8.881	(0.986)	531092	9.78659	9.8

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
* 19	1,4-Difluorobenzene	114	8.957	9.003	(1.000)	1250193	10.0000	
20	1,2-Dichloropropane	63	9.290	9.321	(1.037)	259198	9.21196	9.2
21	Trichloroethene	95	9.442	9.473	(1.054)	339648	9.83431	9.8
22	cis-1,3-Dichloropropene	75	10.004	10.035	(1.117)	386831	10.4285	10
23	trans-1,3-Dichloropropene	75	10.338	10.369	(1.154)	282054	10.8197	11
24	1,1,2-Trichloroethane	83	10.474	10.490	(1.169)	282482	9.84016	9.8
25	Toluene	92	10.671	10.672	(0.901)	540313	9.48576	9.5
27	Tetrachloroethene	166	11.415	11.416	(0.964)	424829	8.89555	8.9
* 28	Chlorobenzene-d5	117	11.840	11.841	(1.000)	1343356	10.0000	
29	Chlorobenzene	112	11.870	11.871	(1.003)	711199	8.93307	8.9
30	Ethylbenzene	91	12.098	12.099	(1.022)	1274394	9.93121	9.9
31	Xylene (m,p)	106	12.219	12.220	(1.032)	915657	18.5933	18
32	Styrene	104	12.477	12.463	(1.054)	612836	10.1195	10
M 33	Xylene (total)	106				1364718	27.8882	28
34	1,1,2,2-Tetrachloroethane	83	12.538	12.524	(1.059)	768924	9.34026	9.3
35	Xylene (o)	106	12.553	12.539	(1.060)	449061	9.29484	9.3
38	1,3-Dichlorobenzene	146	13.949	13.935	(1.178)	744168	9.66289	9.7
39	1,4-Dichlorobenzene	146	13.995	13.980	(1.182)	661714	9.61818	9.6
40	1,2-Dichlorobenzene	146	14.283	14.269	(1.206)	600872	10.2956	10

Data File: /chem/W.i/Wsvr.p/wcckto14.b/cc010kq.d
Report Date: 06-Nov-2000 12:31

STL Burlington

RECOVERY REPORT

Client Name: STLVT
Sample Matrix: GAS
Lab Smp Id: E1_LCS
Level: LOW
Data Type: MS DATA
SpikeList File: ACCANA2.spk
Sublist File: ACCANA2.sub
Method File: /chem/W.i/Wsvr.p/wcckto14.b/ato14.m
Misc Info:

Client SDG: wcckto14
Fraction: VOA
Client Smp ID: E1_LCS
Operator: GMM
SampleType: LCS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ppbv	CONC RECOVERED ppbv	% RECOVERED	LIMITS
2 Chloromethane	10	8.5	84.98	70-130
4 Vinyl Chloride	10	8.8	88.54	70-130
5 Bromomethane	10	8.8	87.76	70-130
6 Chloroethane	10	8.4	84.46	70-130
7 Trichlorofluoromet	10	9.3	93.27	70-130
9 Methylene Chloride	10	9.2	91.65	70-130
11 1,1-Dichloroethane	10	9.6	95.52	70-130
12 cis-1,2-Dichloroet	10	9.7	97.45	70-130
14 Chloroform	10	9.6	95.65	70-130
15 1,2-Dichloroethane	10	10	100.03	70-130
16 1,1,1-Trichloroeth	10	10	101.75	70-130
17 Benzene	10	9.0	89.53	70-130
18 Carbon Tetrachlori	10	9.8	97.87	70-130
20 1,2-Dichloropropan	10	9.2	92.12	70-130
21 Trichloroethene	10	9.8	98.34	70-130
22 cis-1,3-Dichloropr	10	10	104.28	70-130
23 trans-1,3-Dichloro	10	11	108.20	70-130
24 1,1,2-Trichloroeth	10	9.8	98.40	70-130
25 Toluene	10	9.5	94.86	70-130
27 Tetrachloroethene	10	8.9	88.96	70-130
29 Chlorobenzene	10	8.9	89.33	70-130
30 Ethylbenzene	10	9.9	99.31	70-130
31 Xylene (m,p)	20	18	92.97	70-130
32 Styrene	10	10	101.20	70-130
34 1,1,2,2-Tetrachlor	10	9.3	93.40	70-130
35 Xylene (o)	10	9.3	92.95	70-130
38 1,3-Dichlorobenzen	10	9.7	96.63	70-130
39 1,4-Dichlorobenzen	10	9.6	96.18	70-130
40 1,2-Dichlorobenzen	10	10	102.96	70-130

SEVERN
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Severn Trent Laboratories, Inc.

SAMPLE PREPARATION

Severn Trent Laboratories-VT
Instrument Run Log
Instrument w

Batch: wcct014
Opened: 9 / 26 / 00 **Time:** 0724
Closed: 9 / 27 / 00 **Time:** 0724

ETR #	SDG #
79858	—
79870	79870

Tune: ✓ 263K
ISTD Tag #: 01-1388
Temp: 19.5 °C B.P.: 29.91" Hg

INJ. TIME	LAB ID	CAN ID #	CLIENT ID	ETR #	INLET #	SAMPLE VOLUME (mL)	DILUTION FACTOR	ISTD RECOVERY	CONC	ANALYST	COMMENTS
0724	cc001p	n/a	XBFB001	n/a	n/a	n/a	n/a	n/a	✓	Emm	
0745	CC0005	6064	ASTD0005		4	20		✓	↓		AT0926000
0814	CC005	6101	005		3	25		✓	✓		AT0926001
0844	CC010		010			50		✓	✓		
0915	CC020		020			100		✓	✓		
0948	CC040	↓	↓ 040		↓	200		✓	✓		
1026	CC0005.2	6064	ASTD0005		4	20		✓	✓		
1154	CC010q	6062	Y6-ICV		2	200		✓	✓		AT0926002C
1250	CC0001	n/a	ABKY6	↓	1	200	↓	✓	↑ *		MeCl2 @ 1.2
1326	ccb002	↓	↓	n/a	1	200	n/a	✓	↑ *		MeCl2 Ck per SOP
1400	431018	6052	D-19	79858	2	200	1:1	✓	✓		
1433	431019	6159	M-20		3			✓	✓		
1507	431020	6170	K-16		4			✓	✓		
1540	431021	6100	G-11		5			✓	✓		
1614	431022	6172	E-17		6			✓	✓		
1648	431023	6101	H-19		7			✓	✓		
~~1716~~	~~431024~~	~~6016~~	~~TripBlank~~		~~8~~			✓			Emm
1751	431130	6161	Room 37	79870	9	↓	↓	✓	✓	↓	

Severn Trent Laboratories-VT

Instrument Run Log

Instrument w

Batch: wcc1014

Opened: 9 / 26 / 00 **Time:** 0124

Closed: 9 / 27 / 00 **Time:** 0124

ETR #

SDG #

Tune: ✓

ISTD Tag #: 01-1388

Temp: 115 °C B.P. 29.01" Hg

INJ. TIME	LAB ID	CAN ID #	CLIENT ID	ETR #	INLET #	SAMPLE VOLUME (mL)	DILUTION FACTOR	ISTD RECOVERY	CONC	ANALYST	COMMENTS
1825	431131	6151	Room 30	79870	10	200	1.1	✓	✓	Gmm	
1858	431132	6163	Room 58B	↓	11	↓	↓	✓	✓	↓	
1931	431133	6134	Room 95		12			✓	✓		
2005	431134	6140	Outside S.		13			✓	✓		
2038	431135	6115	Room 39		14			✓	✓		
2112	nap040	n/a	Naphthalene	n/a	16	200	n/a	✓	✓		

Amm 092700

Severn Trent Laboratories-VT
Instrument Run Log
Instrument w

Batch: week+014
Opened: 10 / 30 / 00 **Time:** 0941
Closed: 10 / 31 / 00 **Time:** 0947

ETR #	SDG #
80292	80292
80293	80293
80352	80292

Tune: ✓
ISTD Tag #: 01-1385

Temp: 19.5 °C B.P.: 29.94 "Hg

INJ. TIME	LAB ID	CAN ID #	CLIENT ID	ETR #	INLET #	SAMPLE VOLUME (mL)	DILUTION FACTOR	ISTD RECOVERY	CONC	ANALYST	COMMENTS
0947	cc011p	n/a	WB/B011	n/a	n/a	n/a	n/a	n/a	✓	Gmm	
1009	cc010k	6101	ASTP010	↓	2	50	↓	✓	✓	↓	A709090001
1041	cc010kg	6071	ETL LCS	↓	3	200	↓	✓	✓	↓	A709090002
1113	cc001K	n/a	ABLKE1	↓	1	200	↓	✓	✓	↓	
1146	434686	6128	-106ITA-	80292	3	200	1:1	✓	✓	↓	c
1218	434687	6141	-106CTA-	↓	5	200	1:1	✓	✓	↓	c
1343	434688	6136	ACATA1-	80293	6	200	1:1	✓	✓	↓	c
1418	434689	6142	ACATA2-	↓	7	200	1:1	✓	✓	↓	c
1504	434690	6130	ACACA1-	↓	8	200	1:1	✓	✓	↓	c
1549	435318	6057	-SVE178OTA	80352	9	↓	↓	✓	✓	↓	c
1649	435319	6143	SVE278OTA	↓	10	↓	↓	✓	✓	↓	c
1722	435320	6157	ASTT60	↓	11	↓	↓	✓	↑	↓	0.5 1,2 630
1755	435321	6049	-TMX170-	↓	12	↓	↓	✓	✓	↓	c
1617	cc010kg2	6071	LCSDup	n/a	3	200	n/a	✓	✓	↓	LCSdup run to confirm system OK
	Amm	10/31/00									

lysis Creation and Modification - Current Information
ra Analytical Laboratory, Inc.
: Wilmith, Jeff
: 05/09 2000 Time: 14:23

ysis code: $VC33-2

ed Analysis: **$VC33-2**

Last modified on: **05/03/2000 13:21** by user: **JW**

ysis name: **VOC's in Air (ppbv)**
rtment: **SUB**
od reference: **TO-14A**
ysis holding days: **14**

Reportable: **yes**
Invoiceable: **yes**
List price: **0.00**
Work units: **0.00**

ial information form:

rting units: **ppbv**
ult MDL **0.50**
d off for calculations: **2 significant figures**

ponent list source file: **NONE**
rt all specified components: **yes**
unspecified components to report: **yes**

ponent List:

Component Name	Comp Abbreviation	Comp MDL	CAS Number
1,1,1-Trichloroethane		0.50	71-55-6
1,1,2,2-Tetrachloroethane		0.50	79-34-5
1,1,2-Trichloroethane		0.50	79-00-5
1,1-Dichloroethane		0.50	75-34-3
1,2-Dichlorobenzene		0.50	95-50-1
1,2-Dichloroethane		0.50	107-06-2
1,2-Dichloropropane		0.50	78-87-5
1,3-Dichlorobenzene		0.50	541-73-1
1,4-Dichlorobenzene		0.50	106-46-7
Benzene		0.50	71-43-2
Bromomethane		0.50	74-83-9
Carbon tetrachloride		0.50	56-23-5
Chlorobenzene		0.50	108-90-7
Chloroethane		0.50	75-00-3
Chloroform		0.50	67-66-3
Chloromethane		0.50	74-87-3
cis-1,3-Dichloropropene		0.50	10061-01-5
Ethylbenzene		0.50	100-41-4
Methylene chloride		0.50	75-09-2
Styrene		0.50	100-42-5
Tetrachloroethene		0.50	127-18-4
Toluene		0.50	108-88-3
trans-1,3-Dichloropropene		0.50	10061-02-6
Trichloroethene		0.50	79-01-6
Trichlorofluoromethane		0.50	75-69-4
Vinyl chloride		0.50	75-01-4
Xylenes (m,p)		0.50	1330-20-7
Xylenes (o)		0.50	95-47-6

lation Definition:

rrent calculation definition exists for analysis $VC33-2

ion and Modification - Current Information
dcal Laboratory, Inc.
th, Jeff
2000 Time: 14:23

s code **$VC33-2**

Anlysis **$VC33-2**

Last modified on: **05/03/2000** **13:21** by user: **JW**

s name: **VOC's in Air (ppbv)**
nent: **SJB**
reference: **TO-14A**
s hold days: **14**

Reportable: **yes**
Invoiceable: **yes**
List price: **0.00**
Work units: **0.00**

information form:

ng units: **ppbv**
MDL: **0.50**
off for calculations: **2 significant figures**

nent list source file: **NONE**
all specified components: **yes**
specified components to report: **yes**

to be added Percent Dwn'd Filter W/25100

onent List:
cis 1,2-Dichloroethane

0.50

Component Name	Comp Abbreviation	Comp MDL	CAS Number
1,1,1-Trichloroethane		0.50	71-55-6
1,1,2,2-Tetrachloroethane		0.50	79-34-5
1,1,2-Trichloroethane		0.50	79-00-5
1,1-Dichloroethane		0.50	75-34-3
1,2-Dichlorobenzene		0.50	95-50-1
1,2-Dichloroethane		0.50	107-06-2
1,2-Dichloropropane		0.50	78-87-5
1,3-Dichlorobenzene		0.50	541-73-1
1,4-Dichlorobenzene		0.50	106-46-7
Benzene		0.50	71-43-2
Bromomethane		0.50	74-83-9
Carbon tetrachloride		0.50	56-23-5
Chlorobenzene		0.50	108-90-7
Chloroethane		0.50	75-00-3
Chloroform		0.50	67-66-3
Chloromethane		0.50	74-87-3
cis-1,3-Dichloropropene		0.50	10061-01-5
Ethylbenzene		0.50	100-41-4
Methylene chloride		0.50	75-09-2
Styrene		0.50	100-42-5
Tetrachloroethene		0.50	127-18-4
Toluene		0.50	108-88-3
trans-1,3-Dichloropropene		0.50	10061-02-6
Trichloroethene		0.50	79-01-6
Trichlorofluoromethane		0.50	75-69-4
Vinyl chloride		0.50	75-01-4
Xylenes (m,p)		0.50	1330-20-7
Xylenes (o)		0.50	95-47-6

lation Definition:

rrent calculation definition exists for analysis **$VC33-2**

0092

SEVERN
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Severn Trent Laboratories, Inc.

SAMPLE HANDLING

COPY - ORIGINAL ON FILE
SDG # 80292 ETR # 80292

PLEASE FOLD THIS SHIPPING DOCUMENT IN HALF AND PLACE IT IN A WAYBILL POUCH AFFIXED TO YOUR SHIPMENT SO THAT THE BAR-CODE PORTION OF THE LABEL CAN BE READ AND SCANNED.
***WARNING: USE ONLY THE PRINTED ORIGINAL LABEL FOR SHIPPING. USING A PHOTOCOPY OF THIS LABEL FOR SHIPPING PURPOSES IS FRAUDULENT AND COULD RESULT IN ADDITIONAL BILLING CHARGES, ALONG WITH THE CANCELLATION OF YOUR FEDEX ACCOUNT NUMBER.

FROM: Randy Dumaop (904)777-4812
CCI / J.A. Jones Environmental
6219 Authority Ave.
Building 1
Jacksonville, FL 32215

SHIPPER'S FEDEX ACCOUNT NUMBER

FedEx
Federal Express

TO: Ron Pentkowski (802)655-1203
Severn Trent Laboratories
208 South Park Drive
Suite 1
Colchester, VT 05446-

SHIP DATE: 19OCT00
MAN-WGT: 25 LBS

REF: 154282.99.22.01.01

DELIVERY ADDRESS BARCODE (FEDEX-EDR)

CAD # 3844729 ** 2DAY **

MON
AA

TRK # 7903 8436 2472 FORM 0201

BTV

Deliver By:
23OCT00

05446-VT-US

KF BTVA

0094

SEVERN TRENT LABORATORIES LOG-IN SHEET - Form DC-1

Lab Name: Severn Trent Laboratories - VT

Page 1 of 1

Received By (Print Name): Jack L Dustin

Log-in Date: 10/24/00

Received By (Signature): Jack L Dustin

Case Number: 20031

Sample Delivery Group No: 80293

ETR Number: 80293

REMARKS:

1. **Custody Seal** Present/~~Absent*~~ Intact/~~Broken~~
2. **Custody Seal Nos.:** ——
3. **Chain-of-Custody Records** Present/~~Absent*~~
4. **Sample Information Sheets** ~~Present~~/Absent*
5. **Airbill** ~~Airbill/Sticker~~ ~~Present/Absent*~~
6. **Airbill No.:** 7903 8436 2472
7. **Sample Tags** Present/Absent* **Sample Tag Numbers** ~~Listed~~/Not Listed on Chain-of-Custody
8. **Sample Condition:** Intact/~~Broken*~~ ~~Leaking~~
9. **Does information on the custody records, sample information sheets, sample tags and labels agree?** Yes/~~No*~~
10. **Date Received at Lab:** 10/23/00
11. **Time Received:** 0930
12. **Cooler Temperature:** NA Air Cans

Sample Transfer

Fraction: All

Area #: LVI 4 Frig

By: Jack L Dustin

On: 10/23/00 0930

CORRESPONDING			
CLIENT SAMPLE #	SAMPLE TAG #	ASSIGNED LAB #	REMARKS: CONDITION OF SAMPLE SHIPMENT, ETC.
029ACAIA	10180005	434688	Were air bubbles present
029ACA2IA	10180005	434689	in any VOA vials? NA
029ACAEA	10180005	434690	Samples received
			intact in a box.
			Box received intact
			in as were custody
			Seals. Removed
			hyphens for
			truncation.

JLD 10/24/00

* Contact Project Director

Reviewed by: _____ 10/25/00

Logbook No.: _____

Date: _____

Logbook Page No.: _____

** COOLER RECEIPT CHECKLIST **

WERE CUSTODY SEALS PRESENT ON THE COOLERS?

(YES) NO

COPY - ORIGINAL ON FILE
SDG # 80292 FTR # 80292

IF SO, WERE THERE CUSTODY SEAL NUMBERS?

YES (NO)

LIST THE CUSTODY SEAL NUMBERS. _____ _____

WHAT TYPE OF COOLING WAS UTILIZED?

ICE MELTED ICE PACKS (NONE)

COOLER TEMPERATURE (degrees c): NA Air cans

DATE AND TIME COOLER RECEIVED: ~~9/23/00~~ 10/23/00 0930

DO SAMPLES APPEAR TO BE INTACT: (YES) NO

DO ANY SAMPLES HAVE SHORT HOLDING TIMES?
(less than seven days)

WET CHEM	YES	(NO)
EXTRACTABLES	YES	(NO)
UNPRES VOA	(YES)	NO

RADIATION SCREEN RESULTS <0.05 MR/HR (YES) NO

SEVERN
TRENT
SERVICES

STL Burlington
Suite 1
208 South Park Drive
Colchester, VT 05446

Tel: 802 655 1203
Fax: 802 655 1248
www.stl-inc.com

SAMPLE DATA SUMMARY PACKAGE

SDG NO: 801094

CCI NAVY FAC PMO
DEC 7 2000

SEVERN
TRENT
SERVICES

STL Burlington
208 South Park Drive
Suite 1
Colchester, VT 05446

Tel: 802 655 1203
Fax: 802 655 1248
www.stl-inc.com

November 29, 2000

Mr. David Fuller
Accura Analytical Laboratories
6017 Financial Drive
Norcross, GA 30071

Re: Laboratory Project No. 20031
Case: 20031; SDG: 80694

Dear Mr. Fuller:

Enclosed are the analytical results of samples received intact by Severn Trent Laboratories on November 16, 2000. Laboratory numbers have been assigned and designated as follows:

Lab ID	Client Sample ID	Sample Date	Sample Matrix
	Received: 11/16/00	ETR No: 80694	
438420	029ACAIA11130006	11/13/00	Air
438421	029ACA2IA11130006	11/13/00	Air
438422	029ACAEA11130006	11/13/00	Air

Method TO-14A Modified-Volatile Organics;
Please note that due to a limitation of characters inherent in the reporting software, some characters of the client identification above were truncated.

If there are any questions regarding this submittal, please contact Ron Pentkowski at (802) 655-1203.

This report shall not be reproduced, except in full, without the written approval of the laboratory. This report is sequentially numbered starting with page 001 and ending with page 129.

I certify that this package is in compliance with the NELAC requirements, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Director or his designee, as verified by the following signature.

Sincerely,

Christopher A. Ouellette
Laboratory Director

CCI NAVY RAC PMO
DEC 7 2000

CH2M Hill Constructors, Inc.
115 Perimeter Center Place, Suite 700
Atlanta, GA 30346-1278
Tel No (770) 604-9182 ; Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

AAL Project #26377

COC NUMBER **154282-06**

PROJECT NAME	PROJECT NUMBER	LAB NAME AND CONTACT	FAX AND MAIL REPORTS/EDD TO: RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No., and Fax No.)
N.A.S Cecil Field 103rd Street	154282	Severn Trent Laboratories/ Ron Pentkowski	Dave Accura Analytical Laboratory	6017 Financial Drive Norcross, GA 30071 (770) 449-8800 Fax:(770) 449-5477
PROJECT PHASE/SITE/TASK	CTO OR DO NUMBER	LAB PO NUMBER	FAX AND MAIL REPORTS/EDD TO: RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No., and Fax No.)
103rd Street Monthly Air	0029	1760	Jennifer Zimmerman / J.A Jones Env. Services	6219 Authority Ave. Building 1 Jacksonville, FL 32215 (904) 7774812 FAX: (904) 7774262
PROJECT CONTACT	PROJECT TEL NO AND FAX NO.	LAB TEL NO AND FAX NO.	FAX AND MAIL REPORTS/EDD TO: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No., and Fax No.)
David Garrity	Ph:(904)777-4812 Fax:(904) 777-4262	Ph:(802) 655-1203	Jeff Wilmoth / CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 Ext.561 FAX:604-9282

ANALYSES REQUIRED (Include Method Numbers)

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	Volatiles by 18 / TO 14										SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	029-ACA-I-A-1113-00-06	Pre Carbon Units	A	11/13/00	13:50	III/B	7	1										Grab	Summa Canister	AC 04392
2	029-ACA2-I-A-1113-00-06	Mid Carbon Units	A	11/13/00	13:55	III/B	7	1										Grab	Summa Canister	AC 04393
3	029-ACA-E-A-1113-00-06	Post Carbon Units	A	11/13/00	14:00	III/B	7	1										Grab	Summa Canister	AC 04394
4																				
5																				
6																				
7																				
8																				
9																				
10																				

SAMPLER(S) AND COMPANY (please print)	COURIER AND SHIPPING NUMBER	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT
Randy Dumaop J.A. Jones Environmental Services	Federal Express TRK# 790399462618	

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature			Printed Name and Signature		
R.Dumaop	11/14/00	11:00	Federal Express	11/14/00	11:00
Printed Name and Signature			Printed Name and Signature		
Printed Name and Signature			Printed Name and Signature		
			Scott Lavigne	11/14/00	0930

Distribution: [ ] Original - Laboratory (To be returned with Analytical Report); [ ] Copy 1 - Project File; [ ] Copy 2 - PMO

Form CC001, Rev 02/00

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

SAMPLE DATA SUMMARY PACKAGE

FOR TO-14A

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ACCANA SAMPLE NO.

A2IA11130006

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80694

Matrix: (soil/water) AIR Lab Sample ID: 438421

Sample wt/vol: 200 (g/mL) ML Lab File ID: 438421

Level: (low/med) LOW Date Received: 11/16/00

% Moisture: not dec. _____ Date Analyzed: 11/21/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-09-2	Methylene Chloride	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (m,p)	0.50	U
100-42-5	Styrene	0.50	U
95-47-6	Xylene (o)	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ACCANA SAMPLE NO.

A2IA11130006

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80694

Matrix: (soil/water) AIR Lab Sample ID: 438421

Sample wt/vol: 200 (g/mL) ML Lab File ID: 438421

Level: (low/med) LOW Date Received: 11/16/00

% Moisture: not dec. _____ Date Analyzed: 11/21/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) ppbv

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	16.82	1.3	J
2.	UNKNOWN	18.23	2.6	J
3.	UNKNOWN SILOXANE DERIVATIVE	22.10	1.7	J
4.				
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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ACCANA SAMPLE NO.

CAEA11130006

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80694

Matrix: (soil/water) AIR Lab Sample ID: 438422

Sample wt/vol: 200 (g/mL) ML Lab File ID: 438422

Level: (low/med) LOW Date Received: 11/16/00

% Moisture: not dec. _____ Date Analyzed: 11/21/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-09-2	Methylene Chloride	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	7.6	
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	11	
1330-20-7	Xylene (m,p)	6.1	
100-42-5	Styrene	0.50	U
95-47-6	Xylene (o)	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ACCANA SAMPLE NO.

CAEA11130006

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80694

Matrix: (soil/water) AIR Lab Sample ID: 438422

Sample wt/vol: 200 (g/mL) ML Lab File ID: 438422

Level: (low/med) LOW Date Received: 11/16/00

% Moisture: not dec. _____ Date Analyzed: 11/21/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 10

CONCENTRATION UNITS:
(ug/L or ug/Kg) ppbv

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN ALIPHATIC COMPOUND	13.50	21	J
2.	UNKNOWN ALIPHATIC COMPOUND	13.71	12	J
3.	UNKNOWN ALIPHATIC COMPOUND	14.42	36	J
4.	UNKNOWN	15.24	9.7	J
5.	UNKNOWN	15.42	10	J
6.	UNKNOWN ALIPHATIC COMPOUND	15.58	58	J
7.	UNKNOWN ALIPHATIC COMPOUND	15.65	15	J
8.	UNKNOWN	16.81	38	J
9.	UNKNOWN	17.34	7.5	J
10.	UNKNOWN	17.67	21	JB
11.				
12.				
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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ACCANA SAMPLE NO.

CAIA11130006

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80694

Matrix: (soil/water) AIR Lab Sample ID: 438420

Sample wt/vol: 200 (g/mL) ML Lab File ID: 438420

Level: (low/med) LOW Date Received: 11/16/00

% Moisture: not dec. _____ Date Analyzed: 11/21/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-09-2	Methylene Chloride	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	1.2	
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (m,p)	0.85	
100-42-5	Styrene	0.50	U
95-47-6	Xylene (o)	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ACCANA SAMPLE NO.

CAIA11130006

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80694

Matrix: (soil/water) AIR Lab Sample ID: 438420

Sample wt/vol: 200 (g/mL) ML Lab File ID: 438420

Level: (low/med) LOW Date Received: 11/16/00

% Moisture: not dec. _____ Date Analyzed: 11/21/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 10

CONCENTRATION UNITS:
(ug/L or ug/Kg) ppbv

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN ALIPHATIC COMPOUND	6.36	11	J
2.	UNKNOWN ALIPHATIC COMPOUND	16.99	3.1	J
3.	UNKNOWN	17.37	3.6	J
4.	UNKNOWN ALIPHATIC COMPOUND	17.85	4.3	J
5.	UNKNOWN ALIPHATIC COMPOUND	18.08	3.6	J
6.	UNKNOWN C3-ALKYLBENZENE	18.34	5.2	J
7.	UNKNOWN ALIPHATIC COMPOUND	18.47	6.9	J
8.	UNKNOWN ALIPHATIC COMPOUND	18.69	7.1	J
9.	UNKNOWN ALIPHATIC COMPOUND	19.28	4.6	J
10.	UNKNOWN ALKYLCYCLOHEXANE	20.20	4.2	J
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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

STLVT SAMPLE NO.

ABLKG7

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80694

Matrix: (soil/water) AIR Lab Sample ID: ABLKG7

Sample wt/vol: 200 (g/mL) ML Lab File ID: CKB001A

Level: (low/med) LOW Date Received:

% Moisture: not dec. _____ Date Analyzed: 11/21/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-09-2	Methylene Chloride	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (m,p)	0.50	U
100-42-5	Styrene	0.50	U
95-47-6	Xylene (o)	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

STLVT SAMPLE NO.

ABLKG7

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80694

Matrix: (soil/water) AIR Lab Sample ID: ABLKG7

Sample wt/vol: 200 (g/mL) ML Lab File ID: CKB001A

Level: (low/med) LOW Date Received:

% Moisture: not dec. _____ Date Analyzed: 11/21/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) ppbv

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	17.72	5.0	J
2.	UNKNOWN	17.76	13	J
3.				
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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

STLVT SAMPLE NO.

H6_ICVLCS

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80694

Matrix: (soil/water) AIR Lab Sample ID: H6_ICVLCS

Sample wt/vol: 200 (g/mL) ML Lab File ID: CK010Q

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/20/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	9.5	
75-01-4	Vinyl Chloride	9.0	
74-83-9	Bromomethane	8.4	
75-00-3	Chloroethane	9.0	
75-69-4	Trichlorofluoromethane	9.5	
75-09-2	Methylene Chloride	9.0	
75-34-3	1,1-Dichloroethane	9.3	
156-59-2	cis-1,2-Dichloroethene	9.6	
67-66-3	Chloroform	9.8	
71-55-6	1,1,1-Trichloroethane	9.9	
56-23-5	Carbon Tetrachloride	9.5	
71-43-2	Benzene	10	
107-06-2	1,2-Dichloroethane	9.9	
79-01-6	Trichloroethene	10	
78-87-5	1,2-Dichloropropane	10	
10061-01-5	cis-1,3-Dichloropropene	9.4	
108-88-3	Toluene	9.2	
10061-02-6	trans-1,3-Dichloropropene	8.5	
79-00-5	1,1,2-Trichloroethane	9.4	
127-18-4	Tetrachloroethene	10	
108-90-7	Chlorobenzene	10	
100-41-4	Ethylbenzene	10	
1330-20-7	Xylene (m,p)	20	
100-42-5	Styrene	10	
95-47-6	Xylene (o)	10	
79-34-5	1,1,2,2-Tetrachloroethane	11	
541-73-1	1,3-Dichlorobenzene	10	
106-46-7	1,4-Dichlorobenzene	10	
95-50-1	1,2-Dichlorobenzene	10	

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

STLVT SAMPLE NO.

G7_LCS

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80694

Matrix: (soil/water) AIR Lab Sample ID: G7_LCS

Sample wt/vol: 200 (g/mL) ML Lab File ID: CK010AQ

Level: (low/med) LOW Date Received:

% Moisture: not dec. _____ Date Analyzed: 11/21/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	12	
75-01-4	Vinyl Chloride	12	
74-83-9	Bromomethane	12	
75-00-3	Chloroethane	11	
75-69-4	Trichlorofluoromethane	10	
75-09-2	Methylene Chloride	10	
75-34-3	1,1-Dichloroethane	10	
156-59-2	cis-1,2-Dichloroethene	10	
67-66-3	Chloroform	9.8	
71-55-6	1,1,1-Trichloroethane	8.6	
56-23-5	Carbon Tetrachloride	8.4	
71-43-2	Benzene	11	
107-06-2	1,2-Dichloroethane	9.1	
79-01-6	Trichloroethene	10	
78-87-5	1,2-Dichloropropane	11	
10061-01-5	cis-1,3-Dichloropropene	9.7	
108-88-3	Toluene	11	
10061-02-6	trans-1,3-Dichloropropene	8.7	
79-00-5	1,1,2-Trichloroethane	9.9	
127-18-4	Tetrachloroethene	11	
108-90-7	Chlorobenzene	11	
100-41-4	Ethylbenzene	11	
1330-20-7	Xylene (m,p)	22	
100-42-5	Styrene	12	
95-47-6	Xylene (o)	11	
79-34-5	1,1,2,2-Tetrachloroethane	11	
541-73-1	1,3-Dichlorobenzene	11	
106-46-7	1,4-Dichlorobenzene	11	
95-50-1	1,2-Dichlorobenzene	12	

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80694

Matrix Spike - STLVT Sample No.: H6_ICVLCS

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
Chloromethane	10		9.5	95	70-130
Vinyl Chloride	10		9.0	90	70-130
Bromomethane	10		8.4	84	70-130
Chloroethane	10		9.0	90	70-130
Trichlorofluoromethane	10		9.5	95	70-130
Methylene Chloride	10		9.0	90	70-130
1,1-Dichloroethane	10		9.3	93	70-130
cis-1,2-Dichloroethene	10		9.6	96	70-130
Chloroform	10		9.8	98	70-130
1,1,1-Trichloroethane	10		9.9	99	70-130
Carbon Tetrachloride	10		9.5	95	70-130
Benzene	10		10	100	70-130
1,2-Dichloroethane	10		9.9	99	70-130
Trichloroethene	10		10	100	70-130
1,2-Dichloropropane	10		10	100	70-130
cis-1,3-Dichloropropene	10		9.4	94	70-130
Toluene	10		9.2	92	70-130
trans-1,3-Dichloroprope	10		8.5	85	70-130
1,1,2-Trichloroethane	10		9.4	94	70-130
Tetrachloroethene	10		10	100	70-130
Chlorobenzene	10		10	100	70-130
Ethylbenzene	10		10	100	70-130
Xylene (m,p)	20		20	100	70-130
Styrene	10		10	100	70-130
Xylene (o)	10		10	100	70-130
1,1,2,2-Tetrachloroetha	10		11	110	70-130
1,3-Dichlorobenzene	10		10	100	70-130
1,4-Dichlorobenzene	10		10	100	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80694

Matrix Spike - STLVT Sample No.: H6_ICVLCS

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
1,2-Dichlorobenzene	10		10	100	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 29 outside limits

COMMENTS: _____

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80694

Matrix Spike - STLVT Sample No.: G7_LCS

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
Chloromethane	10		12	120	70-130
Vinyl Chloride	10		12	120	70-130
Bromomethane	10		12	120	70-130
Chloroethane	10		11	110	70-130
Trichlorofluoromethane	10		10	100	70-130
Methylene Chloride	10		10	100	70-130
1,1-Dichloroethane	10		10	100	70-130
cis-1,2-Dichloroethene	10		10	100	70-130
Chloroform	10		9.8	98	70-130
1,1,1-Trichloroethane	10		8.6	86	70-130
Carbon Tetrachloride	10		8.4	84	70-130
Benzene	10		11	110	70-130
1,2-Dichloroethane	10		9.1	91	70-130
Trichloroethene	10		10	100	70-130
1,2-Dichloropropane	10		11	110	70-130
cis-1,3-Dichloropropene	10		9.7	97	70-130
Toluene	10		11	110	70-130
trans-1,3-Dichloroprope	10		8.7	87	70-130
1,1,2-Trichloroethane	10		9.9	99	70-130
Tetrachloroethene	10		11	110	70-130
Chlorobenzene	10		11	110	70-130
Ethylbenzene	10		11	110	70-130
Xylene (m,p)	20		22	110	70-130
Styrene	10		12	120	70-130
Xylene (o)	10		11	110	70-130
1,1,2,2-Tetrachloroetha	10		11	110	70-130
1,3-Dichlorobenzene	10		11	110	70-130
1,4-Dichlorobenzene	10		11	110	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80694

Matrix Spike - STLVT Sample No.: G7_LCS

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
1,2-Dichlorobenzene	10		12	120	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 29 outside limits

COMMENTS:

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80694

Matrix Spike - STLVT Sample No.: H6_ICVLCS

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
Chloromethane	10		9.5	95	70-130
Vinyl Chloride	10		9.0	90	70-130
Bromomethane	10		8.4	84	70-130
Chloroethane	10		9.0	90	70-130
Trichlorofluoromethane	10		9.5	95	70-130
Methylene Chloride	10		9.0	90	70-130
1,1-Dichloroethane	10		9.3	93	70-130
cis-1,2-Dichloroethene	10		9.6	96	70-130
Chloroform	10		9.8	98	70-130
1,1,1-Trichloroethane	10		9.9	99	70-130
Carbon Tetrachloride	10		9.5	95	70-130
Benzene	10		10	100	70-130
1,2-Dichloroethane	10		9.9	99	70-130
Trichloroethene	10		10	100	70-130
1,2-Dichloropropane	10		10	100	70-130
cis-1,3-Dichloropropene	10		9.4	94	70-130
Toluene	10		9.2	92	70-130
trans-1,3-Dichloroprope	10		8.5	85	70-130
1,1,2-Trichloroethane	10		9.4	94	70-130
Tetrachloroethene	10		10	100	70-130
Chlorobenzene	10		10	100	70-130
Ethylbenzene	10		10	100	70-130
Xylene (m,p)	20		20	100	70-130
Styrene	10		10	100	70-130
Xylene (o)	10		10	100	70-130
1,1,2,2-Tetrachloroetha	10		11	110	70-130
1,3-Dichlorobenzene	10		10	100	70-130
1,4-Dichlorobenzene	10		10	100	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80694

Matrix Spike - STLVT Sample No.: H6_ICVLCS

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
1,2-Dichlorobenzene	10		10	100	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 29 outside limits

COMMENTS: _____

FORM 4
VOLATILE METHOD BLANK SUMMARY

STLVT SAMPLE NO.

ABLKG7

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80694

Lab File ID: CKB001A Lab Sample ID: ABLKG7

Date Analyzed: 11/21/00 Time Analyzed: 0958

GC Column: DB-1 ID: 0.35 (mm) Heated Purge: (Y/N) N

Instrument ID: X

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	STLVT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	G7_LCS	G7_LCS	CK010AQ	0826
02	CAIA11130006	438420	438420	1439
03	A2IA11130006	438421	438421	1513
04	CAEA11130006	438422	438422	1549
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06				
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COMMENTS:

FORM IV VOA

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80694

Lab File ID: CK002P BFB Injection Date: 11/20/00

Instrument ID: X BFB Injection Time: 0724

GC Column: DB-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	24.6
75	30.0 - 66.0% of mass 95	53.3
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.2
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	77.7
175	4.0 - 9.0% of mass 174	5.7 (7.3)1
176	93.0 - 101.0% of mass 174	75.5 (97.2)1
177	5.0 - 9.0% of mass 176	4.8 (6.3)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	ASTD0005	ASTD0005	CK0005	11/20/00	0752
02	ASTD005	ASTD005	CK005	11/20/00	0826
03	ASTD010	ASTD010	CK010	11/20/00	0900
04	ASTD020	ASTD020	CK020	11/20/00	0934
05	ASTD040	ASTD040	CK040	11/20/00	1011
06	H6_ICVLCS	H6_ICVLCS	CK010Q	11/20/00	1057
07					
08					
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FORM V VOA

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80694

Lab File ID: CK003P BFB Injection Date: 11/21/00

Instrument ID: X BFB Injection Time: 0725

GC Column: DB-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	23.6
75	30.0 - 66.0% of mass 95	50.5
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.3
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	73.9
175	4.0 - 9.0% of mass 174	5.5 (7.4)1
176	93.0 - 101.0% of mass 174	71.3 (96.6)1
177	5.0 - 9.0% of mass 176	4.5 (6.3)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	ASTD010	ASTD010	CK010A	11/21/00	0751
02	G7_LCS	G7_LCS	CK010AQ	11/21/00	0826
03	ABLKG7	ABLKG7	CKB001A	11/21/00	0958
04	CAIA11130006	438420	438420	11/21/00	1439
05	A2IA11130006	438421	438421	11/21/00	1513
06	CAEA11130006	438422	438422	11/21/00	1549
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22					

FORM V VOA

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80694

Instrument ID: X Calibration Date(s): 11/20/00 11/20/00

Heated Purge: (Y/N) N Calibration Time(s): 0752 1011

GC Column: DB-1 ID: 0.35 (mm)

LAB FILE ID: RRF0.5=CK0005 RRF5 =CK005
RRF10 =CK010 RRF20 =CK020 RRF40 =CK040

COMPOUND	RRF0.5	RRF5	RRF10	RRF20	RRF40	$\overline{RRF}$	% RSD
Chloromethane	0.889	0.809	0.720	0.673	0.724	0.763	11.3
Vinyl Chloride	1.005	0.989	0.840	0.758	0.715	0.861	15.3
Bromomethane	1.105	0.911	0.785	0.772	0.647	0.844	20.6
Chloroethane	0.539	0.451	0.417	0.378	0.362	0.429	16.4
Trichlorofluoromethane	3.723	3.808	3.192	2.867	2.787	3.275	14.5
Methylene Chloride	1.634	1.404	1.207	1.092	1.072	1.282	18.5
1,1-Dichloroethane *	2.314	2.286	1.885	1.757	1.726	1.994	14.4*
cis-1,2-Dichloroethene	1.863	1.994	1.622	1.423	1.387	1.658	16.1
Chloroform	2.722	2.853	2.379	2.176	2.142	2.454	13.1
1,1,1-Trichloroethane	0.412	0.434	0.428	0.393	0.409	0.415	4.0
Carbon Tetrachloride	0.062	0.077	0.075	0.073	0.060	0.069	11.6
Benzene	0.624	0.618	0.572	0.503	0.516	0.567	9.9
1,2-Dichloroethane	0.484	0.477	0.440	0.368	0.366	0.427	13.4
Trichloroethene	0.334	0.385	0.318	0.271	0.259	0.313	16.2
1,2-Dichloropropane	0.226	0.232	0.202	0.187	0.187	0.207	10.2
cis-1,3-Dichloropropene	0.177	0.204	0.207	0.215	0.250	0.211	12.5
Toluene	0.423	0.463	0.404	0.353	0.343	0.397	12.6
trans-1,3-Dichloropropene	0.181	0.155	0.163	0.173	0.214	0.177	12.8
1,1,2-Trichloroethane	0.211	0.236	0.194	0.181	0.175	0.199	12.5
Tetrachloroethene	0.363	0.423	0.364	0.308	0.292	0.350	14.8
Chlorobenzene *	0.488	0.607	0.552	0.488	0.481	0.523	10.5*
Ethylbenzene	0.869	1.087	0.973	0.870	0.854	0.931	10.7
Xylene (m,p)	0.291	0.355	0.332	0.295	0.291	0.313	9.3
Styrene	0.328	0.449	0.454	0.411	0.421	0.413	12.3
Xylene (o)	0.247	0.350	0.338	0.281	0.285	0.300	14.2
1,1,2,2-Tetrachloroethane	0.362	0.488	0.468	0.434	0.450	0.440	10.9
1,3-Dichlorobenzene	0.303	0.546	0.555	0.532	0.478	0.483	21.7
1,4-Dichlorobenzene	0.284	0.511	0.530	0.511	0.466	0.460	22.0
1,2-Dichlorobenzene	0.222	0.502	0.520	0.501	0.445	0.438	28.3

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80694

Instrument ID: X Calibration Date: 11/21/00 Time: 0751

Lab File ID: CK010A Init. Calib. Date(s): 11/20/00 11/20/00

Heated Purge: (Y/N) N Init. Calib. Times: 0752 1011

GC Column: DB-1 ID: 0.35 (mm)

COMPOUND	$\overline{RRF}$	RRF10	MIN RRF	%D	MAX %D
Chloromethane	0.763	0.758	0.01	0.6	30.0
Vinyl Chloride	0.861	0.925	0.01	7.4	30.0
Bromomethane	0.844	1.004	0.01	19.0	30.0
Chloroethane	0.429	0.465	0.01	8.4	30.0
Trichlorofluoromethane	3.275	3.071	0.01	6.2	30.0
Methylene Chloride	1.282	1.207	0.01	5.8	30.0
1,1-Dichloroethane	1.994	1.982	0.1	0.6	30.0
cis-1,2-Dichloroethene	1.658	1.741	0.01	5.0	30.0
Chloroform	2.454	2.372	0.01	3.3	30.0
1,1,1-Trichloroethane	0.415	0.376	0.01	9.4	30.0
Carbon Tetrachloride	0.069	0.062	0.01	10.1	30.0
Benzene	0.567	0.587	0.01	3.5	30.0
1,2-Dichloroethane	0.427	0.385	0.01	9.8	30.0
Trichloroethene	0.313	0.314	0.01	0.3	30.0
1,2-Dichloropropane	0.207	0.212	0.01	2.4	30.0
cis-1,3-Dichloropropene	0.211	0.205	0.01	2.8	30.0
Toluene	0.397	0.417	0.01	5.0	30.0
trans-1,3-Dichloropropene	0.177	0.150	0.01	15.2	30.0
1,1,2-Trichloroethane	0.199	0.199	0.01	0.0	30.0
Tetrachloroethene	0.350	0.342	0.01	2.3	30.0
Chlorobenzene	0.523	0.590	0.3	12.8	30.0
Ethylbenzene	0.931	1.047	0.01	12.4	30.0
Xylene (m,p)	0.313	0.346	0.01	10.5	30.0
Styrene	0.413	0.448	0.01	8.5	30.0
Xylene (o)	0.300	0.332	0.01	10.7	30.0
1,1,2,2-Tetrachloroethane	0.440	0.479	0.01	8.9	30.0
1,3-Dichlorobenzene	0.483	0.487	0.01	0.8	30.0
1,4-Dichlorobenzene	0.460	0.464	0.01	0.9	30.0
1,2-Dichlorobenzene	0.438	0.456	0.01	4.1	30.0

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80694

Lab File ID (Standard): CK010A Date Analyzed: 11/21/00

Instrument ID: X Time Analyzed: 0751

GC Column: DB-1 ID: 0.35 (mm) Heated Purge: (Y/N) N

		IS1(BCM) AREA #	RT #	IS2(CBZ) AREA #	RT #	IS3(DFB) AREA #	RT #
	12 HOUR STD	250603	8.49	1419731	15.30	1283893	10.48
	UPPER LIMIT	601447	8.82	3407354	15.63	3081343	10.81
	LOWER LIMIT	100241	8.16	567892	14.97	513557	10.15
	CLIENT SAMPLE NO.						
01	G7_LCS	217293	8.49	1302453	15.30	1117421	10.48
02	ABLKG7	249968	8.78	1322404	15.38	1235493	10.69
03	CAIA11130006	366074	8.82	1823683	15.38	1710589	10.72
04	A2IA11130006	258553	8.50	1311967	15.30	1188278	10.49
05	CAEA11130006	227248	8.50	1233858	15.32	1077334	10.51
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IS1 (BCM) = Bromochloromethane
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DFB) = 1,4-Difluorobenzene

AREA UPPER LIMIT = +140% of internal standard area
AREA LOWER LIMIT = - 60% of internal standard area
RT UPPER LIMIT = + 0.33 minutes of internal standard RT
RT LOWER LIMIT = - 0.33 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

FORM VIII VOA

SEVERN
TRENT
SERVICES

Severn Trent Laboratories, Inc.

NARRATIVE

SEVERN
TRENT
SERVICES

STL Burlington
208 South Park Drive
Suite 1
Colchester, VT 05446

Tel: 802 655 1203
Fax: 802 655 1248
www.stl-inc.com

November 29, 2000

Mr. David Fuller
Accura Analytical Laboratories
6017 Financial Drive
Norcross, GA 30071

Re: Laboratory Project No. 20031
Case: 20031; SDG: 80694

Dear Mr. Fuller:

Enclosed are the analytical results of samples received intact by Severn Trent Laboratories on November 16, 2000. Laboratory numbers have been assigned and designated as follows:

Lab ID	Client Sample ID	Sample Date	Sample Matrix
	Received: 11/16/00	ETR No: 80694	
438420	029ACAIA11130006	11/13/00	Air
438421	029ACA2IA11130006	11/13/00	Air
438422	029ACAEA11130006	11/13/00	Air

Method TO-14A Modified-Volatile Organics;
Please note that due to a limitation of characters inherent in the reporting software, some characters of the client identification above were truncated.

If there are any questions regarding this submittal, please contact Ron Pentkowski at (802) 655-1203.

This report shall not be reproduced, except in full, without the written approval of the laboratory. This report is sequentially numbered starting with page 001 and ending with page 129.

I certify that this package is in compliance with the NELAC requirements, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Director or his designee, as verified by the following signature.

Sincerely,

Christopher A. Ouellette
Laboratory Director

SEVERN
TRENT
SERVICES

The following Qualifiers may be used when reporting any Organic parameters by Gas Chromatography/mass Spectometry (GCMS). Any additional qualifiers used in the reports will be described in the case narrative. These flags are based on the EPA Contract Laboratory Program statement of work.

GC/MS Qualifiers

A- The reported Tentatively Identified Compound (TIC) is a suspected Aldol-condensation product.

B- The reported analyte was detected in the associated method blank as well as the sample.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor. This flag alerts data users that any discrepancies between the concentrations reported for the dilutions may be due to dilution of the sample or extract. It additionally indicates that spike recoveries may have been diluted below quantifiable levels.

E- Compound quantitation is above the instrument's calibration range for this analysis.

J - Indicates an estimated value. This flag is used when the result is less than the reporting limit, but > ½ reporting limit.

U- Indicates compound was analyzed for but not detected above the reporting limit.

X,Y,Z - Laboratory defined flags. These flags must be fully described, and such description attached to the Sample Data Summary Package and the case Narrative. Begin by using "X" and go on to "Y" as necessary. These flags may also be used to combine several flags, as needed.

CH2M Hill Constructors, Inc.
115 Perimeter Center Place, Suite 700
Atlanta, GA 30346-1278
Tel No (770) 604-9182 , Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER
154282-06

PROJECT NAME	PROJECT NUMBER	LAB NAME AND CONTACT	FAX AND MAIL REPORTS/EDD TO RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No , and Fax No)
N.A.S Cecil Field 103rd Street	154282	Severn Trent Laboratories/ Ron Pentkowski	Dave Accura Analytical Laboratory	6017 Financial Drive Norcross, GA 30071 (770) 449-8800 Fax:(770) 449-5477
PROJECT PHASE/SITE/TASK	CTO OR DO NUMBER	LAB PO NUMBER	FAX AND MAIL REPORTS/EDD TO RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No , and Fax No)
103rd Street Monthly Air	0029	1760	Jennifer Zimmerman / J.A Jones Env. Services	6219 Authority Ave. Building 1 Jacksonville, FL 32215 (904) 7774812 FAX: (904) 7774262
PROJECT CONTACT	PROJECT TEL NO AND FAX NO	LAB TEL NO AND FAX NO	FAX AND MAIL REPORTS/EDD TO RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No , and Fax No)
David Garrity	Ph:(904)777-4812 Fax:(904) 777-4262	Ph:(802) 655-1203	Jeff Wilmoth / CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 Ext.561 FAX:604-9282

ANALYSES REQUIRED (Include Method Numbers)

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	Volatiles by 18 / TO 14										SAMPLE TYPE (see codes on back)	COMMENTS: SCREENING READINGS	LAB ID
1	029-ACA-I-A-1113-00-06	Pre Carbon Units	A	11/13/00	13:50	III/B	7	1										Grab	Summa Canister	
2	029-ACA2-I-A-1113-00-06	Mid Carbon Units	A	11/13/00	13:55	III/B	7	1										Grab	Summa Canister	
3	029-ACA-E-A-1113-00-06	Post Carbon Units	A	11/13/00	14:00	III/B	7	1										Grab	Summa Canister	0003
4																				
5																				
6																				
7																				
8																				
9																				
10																				

SAMPLER(S) AND COMPANY (please print)	COURIER AND SHIPPING NUMBER	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT
Randy Dumaop J.A. Jones Environmental Services	Federal Express TRK# 790399462618	

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature			Printed Name and Signature:		
R.Dumaop [signature]	11/14/00	11:00	Federal Express	11/14/00	11:00
Printed Name and Signature			Printed Name and Signature		
Printed Name and Signature			Printed Name and Signature		
			Scott Laviane [signature]	11/14/00	0930

Distribution [ ] Original - Laboratory (To be returned with Analytical Report). [ ] Copy 1 - Project File; [ ] Copy 2 - PMO

Form CC001, Rev 02 00

SEVERN
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SERVICES

Severn Trent Laboratories, Inc.

METHOD TO-14A
VOLATILE ORGANIC ANALYSIS

QC SUMMARY

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80694

Matrix Spike - STLVT Sample No.: H6_ICVLCS

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
Chloromethane	10		9.5	95	70-130
Vinyl Chloride	10		9.0	90	70-130
Bromomethane	10		8.4	84	70-130
Chloroethane	10		9.0	90	70-130
Trichlorofluoromethane	10		9.5	95	70-130
Methylene Chloride	10		9.0	90	70-130
1,1-Dichloroethane	10		9.3	93	70-130
cis-1,2-Dichloroethene	10		9.6	96	70-130
Chloroform	10		9.8	98	70-130
1,1,1-Trichloroethane	10		9.9	99	70-130
Carbon Tetrachloride	10		9.5	95	70-130
Benzene	10		10	100	70-130
1,2-Dichloroethane	10		9.9	99	70-130
Trichloroethene	10		10	100	70-130
1,2-Dichloropropane	10		10	100	70-130
cis-1,3-Dichloropropene	10		9.4	94	70-130
Toluene	10		9.2	92	70-130
trans-1,3-Dichloroprope	10		8.5	85	70-130
1,1,2-Trichloroethane	10		9.4	94	70-130
Tetrachloroethene	10		10	100	70-130
Chlorobenzene	10		10	100	70-130
Ethylbenzene	10		10	100	70-130
Xylene (m,p)	20		20	100	70-130
Styrene	10		10	100	70-130
Xylene (o)	10		10	100	70-130
1,1,2,2-Tetrachloroetha	10		11	110	70-130
1,3-Dichlorobenzene	10		10	100	70-130
1,4-Dichlorobenzene	10		10	100	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80694

Matrix Spike - STLVT Sample No.: H6_ICVLCS

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
1,2-Dichlorobenzene	10		10	100	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 29 outside limits

COMMENTS:

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80694

Matrix Spike - STLVT Sample No.: G7_LCS

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
Chloromethane	10		12	120	70-130
Vinyl Chloride	10		12	120	70-130
Bromomethane	10		12	120	70-130
Chloroethane	10		11	110	70-130
Trichlorofluoromethane	10		10	100	70-130
Methylene Chloride	10		10	100	70-130
1,1-Dichloroethane	10		10	100	70-130
cis-1,2-Dichloroethene	10		10	100	70-130
Chloroform	10		9.8	98	70-130
1,1,1-Trichloroethane	10		8.6	86	70-130
Carbon Tetrachloride	10		8.4	84	70-130
Benzene	10		11	110	70-130
1,2-Dichloroethane	10		9.1	91	70-130
Trichloroethene	10		10	100	70-130
1,2-Dichloropropane	10		11	110	70-130
cis-1,3-Dichloropropene	10		9.7	97	70-130
Toluene	10		11	110	70-130
trans-1,3-Dichloroprope	10		8.7	87	70-130
1,1,2-Trichloroethane	10		9.9	99	70-130
Tetrachloroethene	10		11	110	70-130
Chlorobenzene	10		11	110	70-130
Ethylbenzene	10		11	110	70-130
Xylene (m,p)	20		22	110	70-130
Styrene	10		12	120	70-130
Xylene (o)	10		11	110	70-130
1,1,2,2-Tetrachloroetha	10		11	110	70-130
1,3-Dichlorobenzene	10		11	110	70-130
1,4-Dichlorobenzene	10		11	110	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80694

Matrix Spike - STLVT Sample No.: G7_LCS

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
1,2-Dichlorobenzene	10		12	120	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 29 outside limits

COMMENTS:

FORM 4
VOLATILE METHOD BLANK SUMMARY

STLVT SAMPLE NO.

ABLKG7

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80694

Lab File ID: CKB001A Lab Sample ID: ABLKG7

Date Analyzed: 11/21/00 Time Analyzed: 0958

GC Column: DB-1 ID: 0.35 (mm) Heated Purge: (Y/N) N

Instrument ID: X

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	STLVT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	G7_LCS	G7_LCS	CK010AQ	0826
02	CAIA11130006	438420	438420	1439
03	A2IA11130006	438421	438421	1513
04	CAEA11130006	438422	438422	1549
05				
06				
07				
08				
09				
10				
11				
12				
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29				
30				

COMMENTS:

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80694

Lab File ID: CK002P BFB Injection Date: 11/20/00

Instrument ID: X BFB Injection Time: 0724

GC Column: DB-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	24.6
75	30.0 - 66.0% of mass 95	53.3
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.2
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	77.7
175	4.0 - 9.0% of mass 174	5.7 (7.3)1
176	93.0 - 101.0% of mass 174	75.5 (97.2)1
177	5.0 - 9.0% of mass 176	4.8 (6.3)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	ASTD0005	ASTD0005	CK0005	11/20/00	0752
02	ASTD005	ASTD005	CK005	11/20/00	0826
03	ASTD010	ASTD010	CK010	11/20/00	0900
04	ASTD020	ASTD020	CK020	11/20/00	0934
05	ASTD040	ASTD040	CK040	11/20/00	1011
06	H6_ICVLCS	H6_ICVLCS	CK010Q	11/20/00	1057
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM V VOA

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80694

Lab File ID: CK003P BFB Injection Date: 11/21/00

Instrument ID: X BFB Injection Time: 0725

GC Column: DB-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	23.6
75	30.0 - 66.0% of mass 95	50.5
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.3
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	73.9
175	4.0 - 9.0% of mass 174	5.5 (7.4)1
176	93.0 - 101.0% of mass 174	71.3 (96.6)1
177	5.0 - 9.0% of mass 176	4.5 (6.3)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	ASTD010	ASTD010	CK010A	11/21/00	0751
02	G7_LCS	G7_LCS	CK010AQ	11/21/00	0826
03	ABLKG7	ABLKG7	CKB001A	11/21/00	0958
04	CAIA11130006	438420	438420	11/21/00	1439
05	A2IA11130006	438421	438421	11/21/00	1513
06	CAEA11130006	438422	438422	11/21/00	1549
07					
08					
09					
10					
11					
12					
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16					
17					
18					
19					
20					
21					
22					

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80694

Lab File ID (Standard): CK010A Date Analyzed: 11/21/00

Instrument ID: X Time Analyzed: 0751

GC Column: DB-1 ID: 0.35 (mm) Heated Purge: (Y/N) N

		IS1 (BCM) AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (DFB) AREA #	RT #
	12 HOUR STD	250603	8.49	1419731	15.30	1283893	10.48
	UPPER LIMIT	601447	8.82	3407354	15.63	3081343	10.81
	LOWER LIMIT	100241	8.16	567892	14.97	513557	10.15
	CLIENT SAMPLE NO.						
01	G7_LCS	217293	8.49	1302453	15.30	1117421	10.48
02	ABLKG7	249968	8.78	1322404	15.38	1235493	10.69
03	CAIA11130006	366074	8.82	1823683	15.38	1710589	10.72
04	A2IA11130006	258553	8.50	1311967	15.30	1188278	10.49
05	CAEA11130006	227248	8.50	1233858	15.32	1077334	10.51
06							
07							
08							
09							
10							
11							
12							
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16							
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18							
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20							
21							
22							

IS1 (BCM) = Bromochloromethane
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DFB) = 1,4-Difluorobenzene

AREA UPPER LIMIT = +140% of internal standard area
AREA LOWER LIMIT = - 60% of internal standard area
RT UPPER LIMIT = + 0.33 minutes of internal standard RT
RT LOWER LIMIT = - 0.33 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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METHOD TO-14A
VOLATILE ORGANIC ANALYSIS

SUPPORTIVE DOCUMENTATION

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ACCANA SAMPLE NO.

A2IA11130006

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80694

Matrix: (soil/water) AIR Lab Sample ID: 438421

Sample wt/vol: 200 (g/mL) ML Lab File ID: 438421

Level: (low/med) LOW Date Received: 11/16/00

% Moisture: not dec. _____ Date Analyzed: 11/21/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-09-2	Methylene Chloride	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (m,p)	0.50	U
100-42-5	Styrene	0.50	U
95-47-6	Xylene (o)	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ACCANA SAMPLE NO.

A2IA11130006

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80694

Matrix: (soil/water) AIR Lab Sample ID: 438421

Sample wt/vol: 200 (g/mL) ML Lab File ID: 438421

Level: (low/med) LOW Date Received: 11/16/00

% Moisture: not dec. _____ Date Analyzed: 11/21/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) ppbv

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	16.82	1.3	J
2.	UNKNOWN	18.23	2.6	J
3.	UNKNOWN SILOXANE DERIVATIVE	22.10	1.7	J
4.				
5.				
6.				
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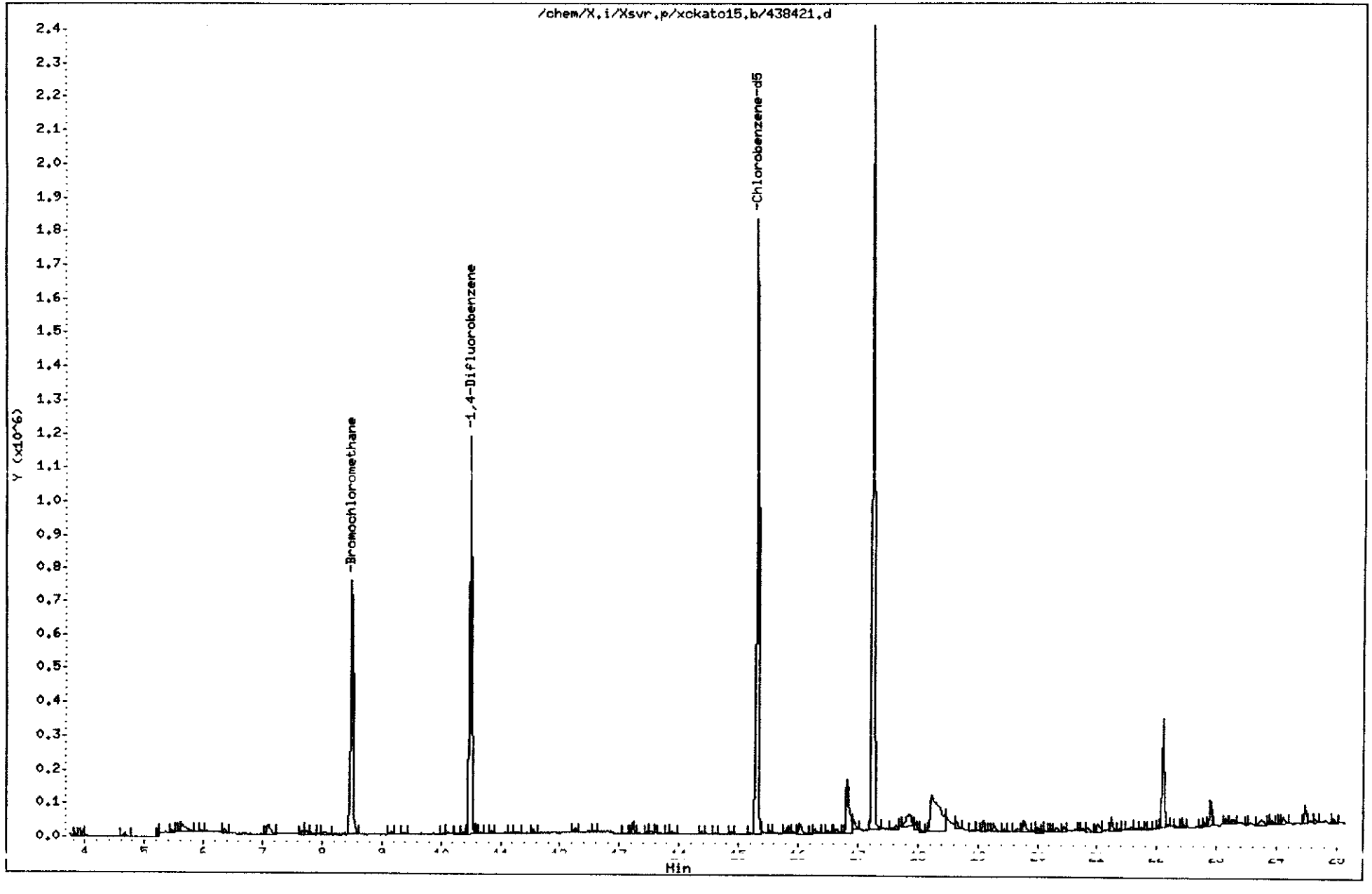
29.				
30.				

Data File: /chem/X.i/Xsvr.p/xckato15.b/438421.d
Date : 21-NOV-2000 15:13
Client ID: A2IA11130006
Sample Info: 438421;029ACA2IA11130006;80694;1121H7
Purge Volume: 200.0
Column phase: DB-1

Instrument: X.i
Operator: GMM
Column diameter: 0.35



0016

STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/X.i/Xsvr.p/xckato15.b/438421.d
Lab Smp Id: 438421 Client Smp ID: A2IA11130006
Inj Date : 21-NOV-2000 15:13
Operator : GMM Inst ID: X.i
Smp Info : 438421;029ACA2IA11130006;80694;1121H7
Misc Info :
Comment :
Method : /chem/X.i/Xsvr.p/xckato15.b/ato15.m
Meth Date : 28-Nov-2000 14:00 mim Quant Type: ISTD
Cal Date : 20-NOV-2000 10:11 Cal File: ck040.d
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA2.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
2 Chloromethane	50	Compound Not Detected.					
4 Vinyl Chloride	62	Compound Not Detected.					
6 Bromomethane	94	Compound Not Detected.					
7 Chloroethane	64	Compound Not Detected.					
10 Trichlorofluoromethane	101	Compound Not Detected.					
13 Methylene Chloride	49	Compound Not Detected.					
18 1,1-Dichloroethane	63	Compound Not Detected.					
21 cis-1,2-Dichloroethene	61	Compound Not Detected.					
* 22 Bromochloromethane	128	8.504	8.473	(1.000)	258553	10.0000	
24 Chloroform	83	Compound Not Detected.					
26 1,2-Dichloroethane	62	Compound Not Detected.					
27 1,1,1-Trichloroethane	97	Compound Not Detected.					
28 Benzene	78	Compound Not Detected.					
29 Carbon Tetrachloride	117	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
31 1,4-Difluorobenzene	114	10.492	10.461	(1.000)	1188278	10.0000	
32 1,2-Dichloropropane	63	Compound Not Detected.					
34 Trichloroethene	95	Compound Not Detected.					
38 cis-1,3-Dichloropropene	75	Compound Not Detected.					
40 trans-1,3-Dichloropropene	75	Compound Not Detected.					
41 1,1,2-Trichloroethane	83	Compound Not Detected.					
42 Toluene	92	Compound Not Detected.					
46 Tetrachloroethene	166	Compound Not Detected.					
47 Chlorobenzene-d5	117	15.302	15.272	(1.000)	1311967	10.0000	
48 Chlorobenzene	112	Compound Not Detected.					
49 Ethylbenzene	91	Compound Not Detected.					
50 Xylene (m,p)	106	Compound Not Detected.					
52 Styrene	104	Compound Not Detected.					
53 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
54 Xylene (o)	106	Compound Not Detected.					
59 1,3-Dichlorobenzene	146	Compound Not Detected.					
60 1,4-Dichlorobenzene	146	Compound Not Detected.					
61 1,2-Dichlorobenzene	146	Compound Not Detected.					

STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/X.i/Xsvr.p/xckato15.b/438421.d
Lab Smp Id: 438421 Client Smp ID: A2IA11130006
Inj Date : 21-NOV-2000 15:13
Operator : GMM Inst ID: X.i
Smp Info : 438421;029ACA2IA11130006;80694;1121H7
Misc Info :
Comment :
Method : /chem/X.i/Xsvr.p/xckato15.b/ato15.m
Meth Date : 28-Nov-2000 13:48 mim Quant Type: ISTD
Cal Date : 20-NOV-2000 10:11 Cal File: ck040.d
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
* 47 Chlorobenzene-d5	15.302	4553796	10.000

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ppbv)	FINAL(ppbv)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
6.820	611095	1.34194567	1.3	0		0	47
Unknown				CAS #:			
8.231	1187414	2.60752530	2.6	0		0	47

RT	AREA	CONCENTRATIONS ON-COL(ppbv)	FINAL(ppbv)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Unknown siloxane derivative				CAS #:			
21.101	773805	1.69925132	1.7	0		0	47

Data File: /chem/X.i/Xsvr.p/xckato15.b/438421.d

Date : 21-NOV-2000 15:13

Client ID: A2IA11130006

Instrument: X.i

Sample Info: 438421;029ACA2IA11130006;80694;1121H7

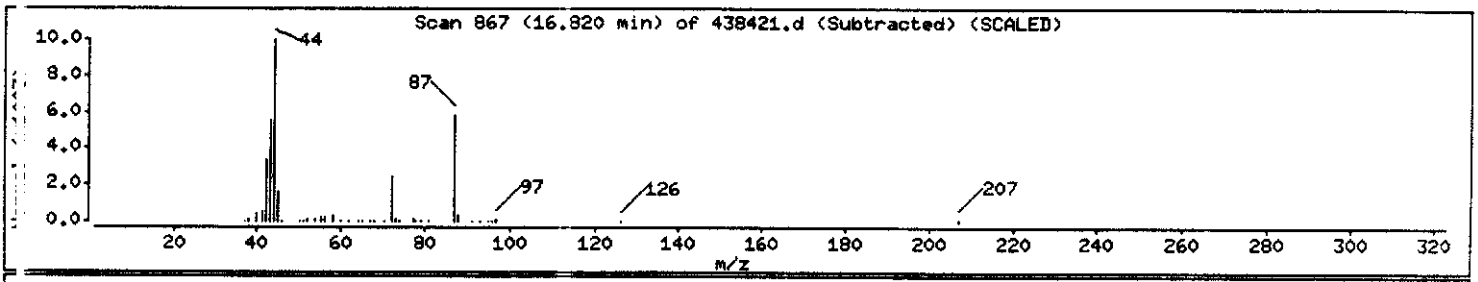
Purge Volume: 200.0

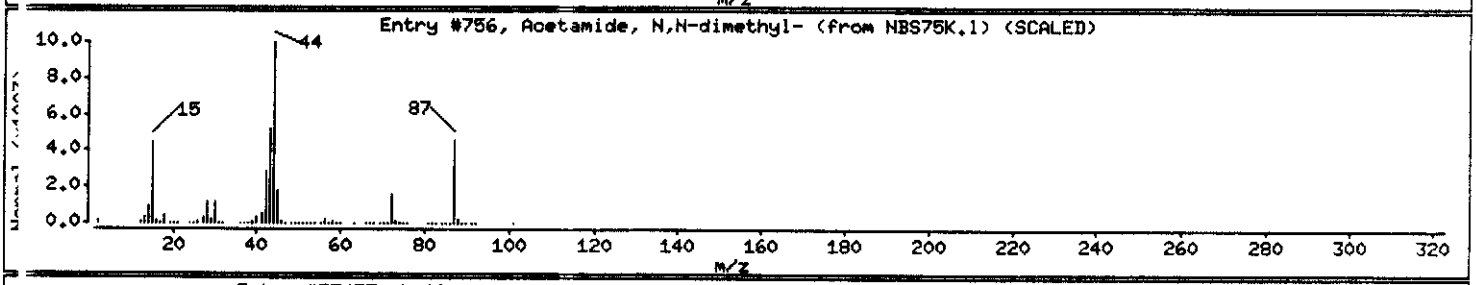
Operator: GHH

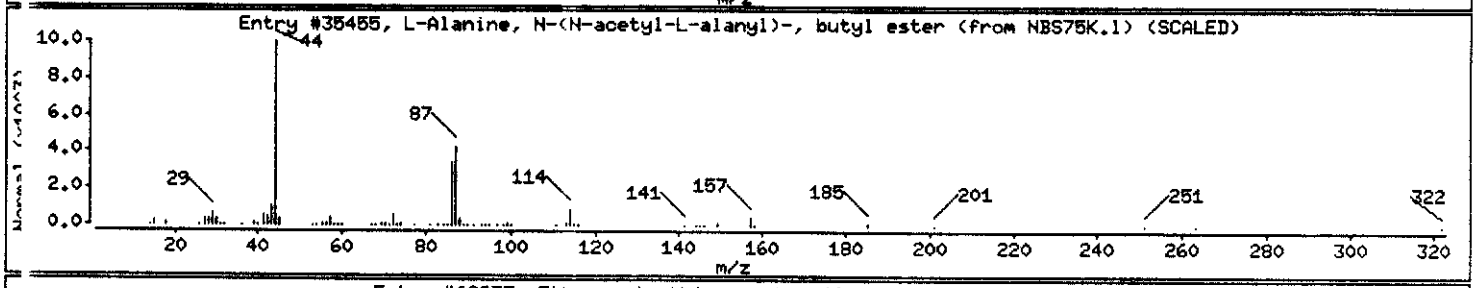
Column phase: DB-1

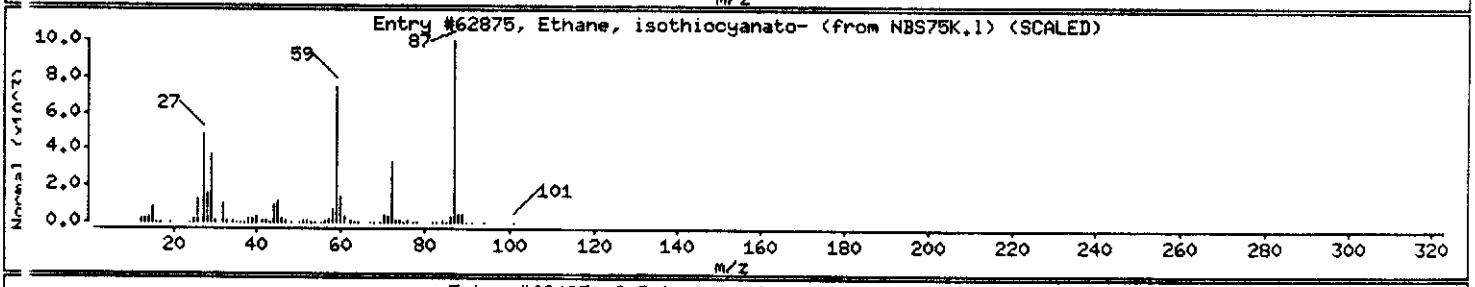
Column diameter: 0.35

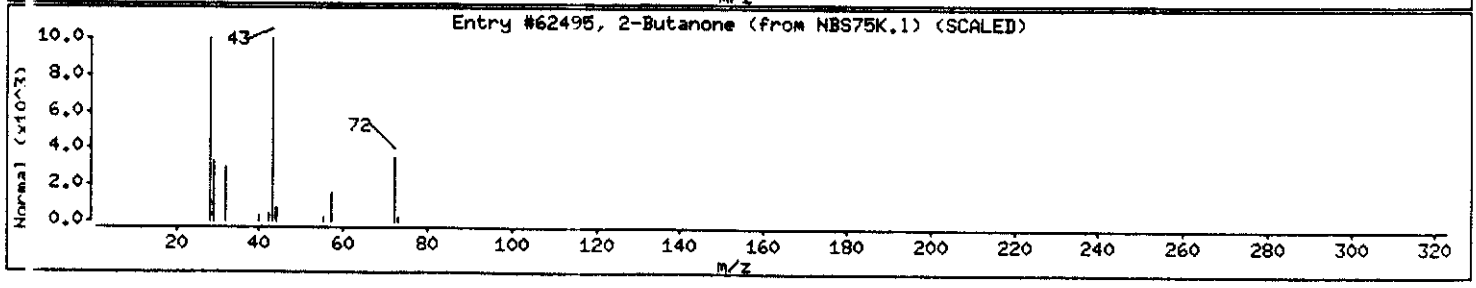
Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Acetamide, N,N-dimethyl-	127-19-5	NBS75K.l	756	86	C4H9NO	87
L-Alanine, N-(N-acetyl-L-alanyl)-, butyl	55712-39-5	NBS75K.l	35455	36	C12H22N2O4	258
Ethane, isothiocyanato-	542-85-8	NBS75K.l	62875	9	C3H5NS	87
2-Butanone	78-93-3	NBS75K.l	62495	9	C4H8O	72











Data File: /chem/X.i/Xsvr.p/xckato15.b/438421.d

Date : 21-NOV-2000 15:13

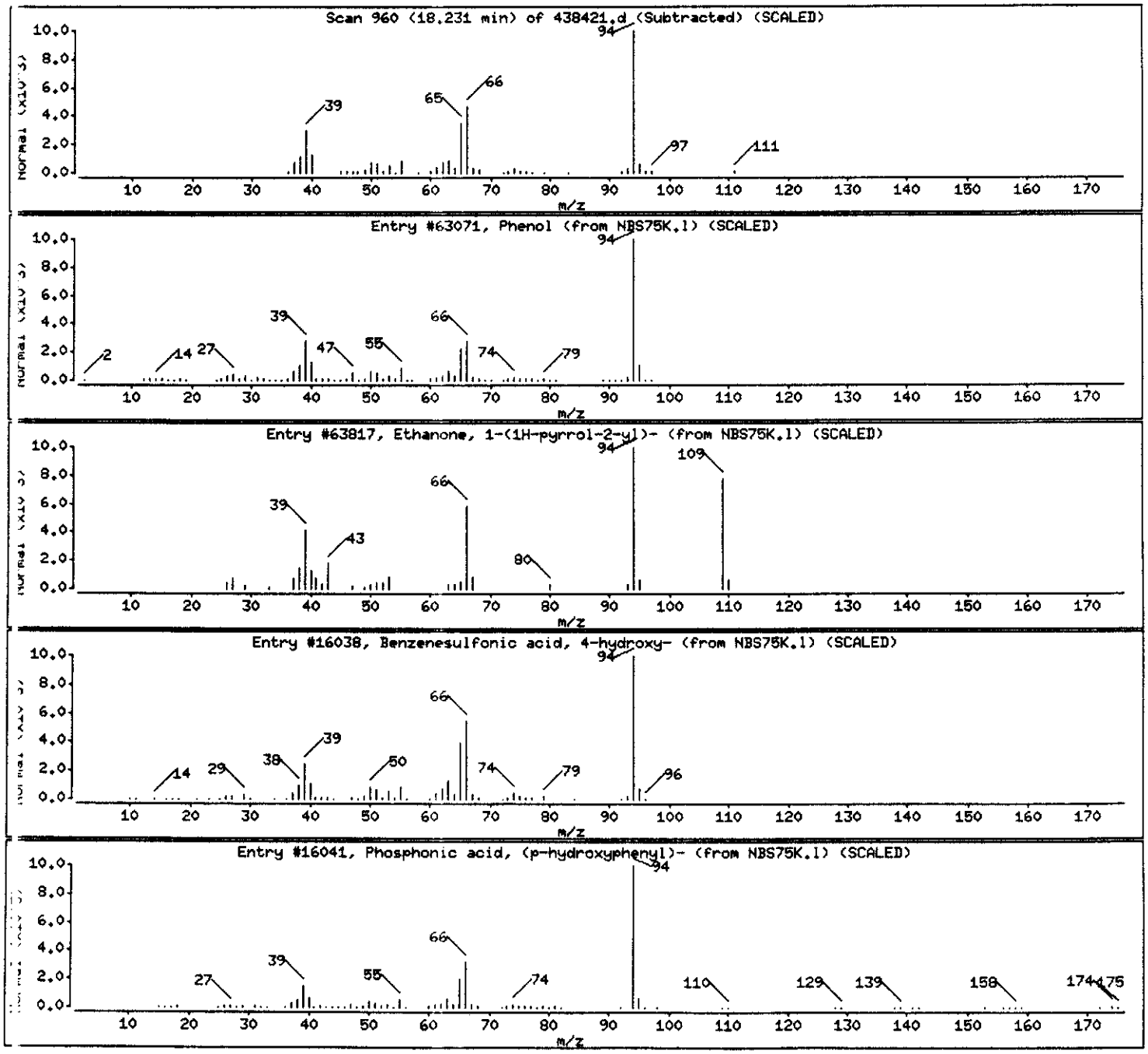
Client ID: A2IA11130006 Instrument: X.i

Sample Info: 438421;029ACA2IA11130006;80694;1121H7

Purge Volume: 200.0 Operator: GMH

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Phenol	108-95-2	NBS75K.l	63071	94	C6H6O	94
Ethanone, 1-(1H-pyrrol-2-yl)-	1072-83-9	NBS75K.l	63817	72	C6H7NO	109
Benzenesulfonic acid, 4-hydroxy-	98-67-9	NBS75K.l	16038	72	C6H6O4S	174
Phosphonic acid, (p-hydroxyphenyl)-	33795-18-5	NBS75K.l	16041	50	C6H7O4P	174



Data File: /chem/X.i/Xsvr.p/xckato15.b/438421.d

Date : 21-NOV-2000 15:13

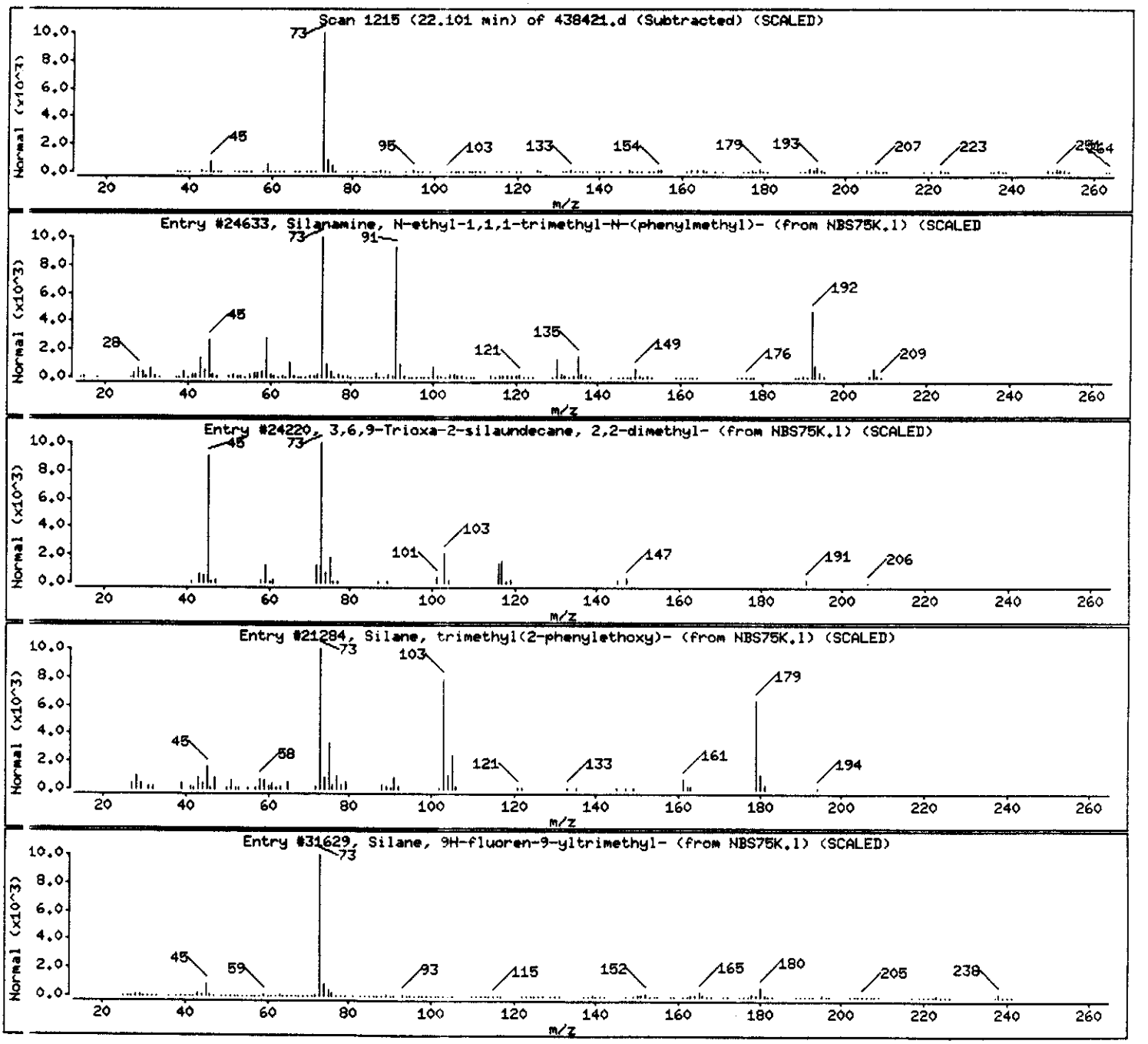
Client ID: A2IA11130006 Instrument: X.i

Sample Info: 438421;029ACA2IA11130006;80694;1121H7

Purge Volume: 200.0 Operator: GMH

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown siloxane derivative						
Silanamine, N-ethyl-1,1,1-trimethyl-N-(p	14629-66-4	NBS75K.l	24633	9	C12H21NSi	207
3,6,9-Trioxa-2-silaundecane, 2,2-dimethy	16654-46-9	NBS75K.l	24220	7	C9H22O3Si	206
Silane, trimethyl(2-phenylethoxy)-	14629-58-4	NBS75K.l	21284	7	C11H18OSi	194
Silane, 9H-fluoren-9-yltrimethyl-	7385-10-6	NBS75K.l	31629	5	C16H18Si	238



FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ACCANA SAMPLE NO.

CAEA11130006

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80694

Matrix: (soil/water) AIR Lab Sample ID: 438422

Sample wt/vol: 200 (g/mL) ML Lab File ID: 438422

Level: (low/med) LOW Date Received: 11/16/00

% Moisture: not dec. _____ Date Analyzed: 11/21/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-09-2	Methylene Chloride	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	7.6	
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	11	
1330-20-7	Xylene (m,p)	6.1	
100-42-5	Styrene	0.50	U
95-47-6	Xylene (o)	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ACCANA SAMPLE NO.

CAEA11130006

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80694

Matrix: (soil/water) AIR Lab Sample ID: 438422

Sample wt/vol: 200 (g/mL) ML Lab File ID: 438422

Level: (low/med) LOW Date Received: 11/16/00

% Moisture: not dec. _____ Date Analyzed: 11/21/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

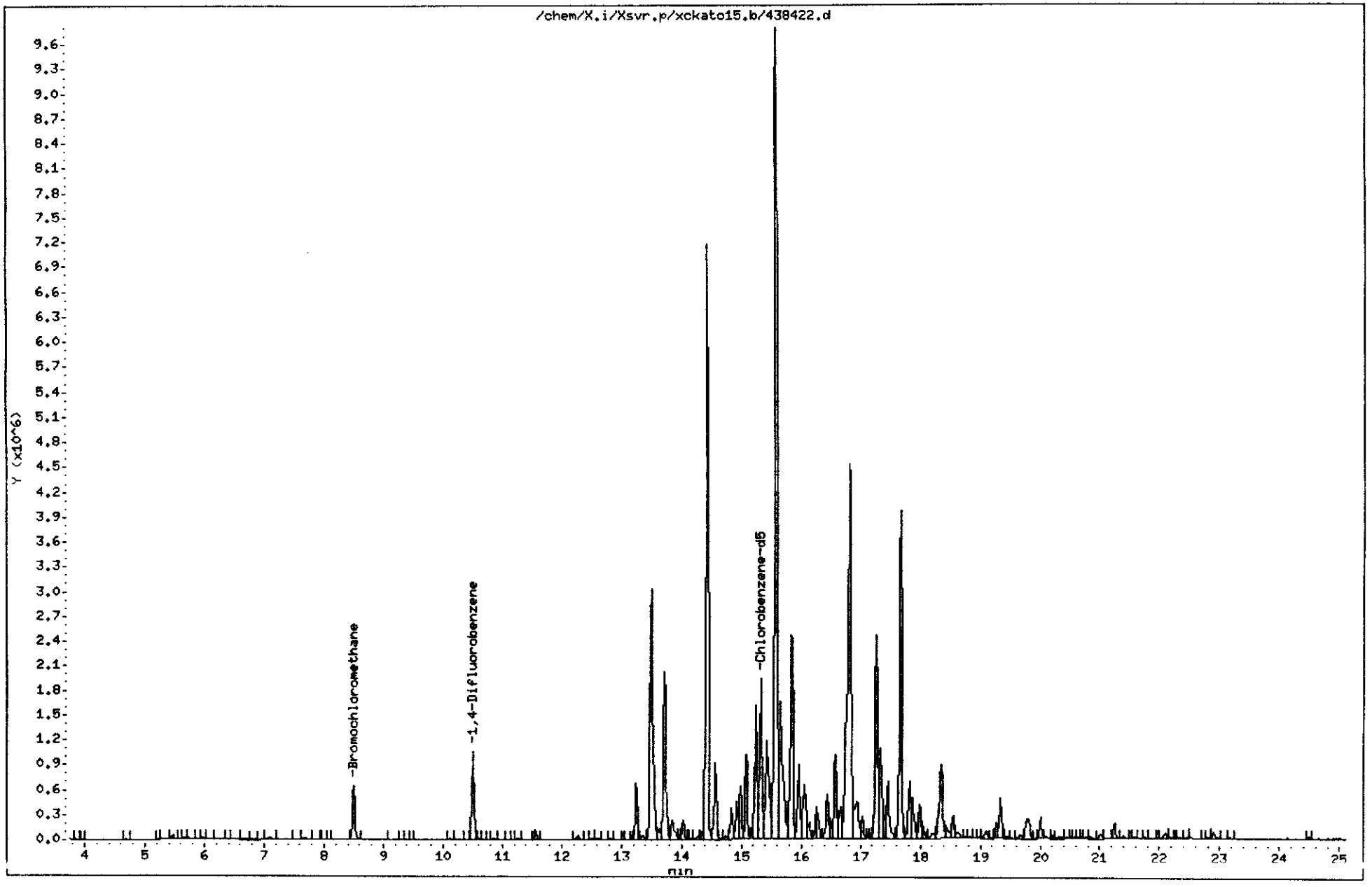
Number TICs found: 10

CONCENTRATION UNITS:
(ug/L or ug/Kg) ppbv

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN ALIPHATIC COMPOUND	13.50	21	J
2.	UNKNOWN ALIPHATIC COMPOUND	13.71	12	J
3.	UNKNOWN ALIPHATIC COMPOUND	14.42	36	J
4.	UNKNOWN	15.24	9.7	J
5.	UNKNOWN	15.42	10	J
6.	UNKNOWN ALIPHATIC COMPOUND	15.58	58	J
7.	UNKNOWN ALIPHATIC COMPOUND	15.65	15	J
8.	UNKNOWN	16.81	38	J
9.	UNKNOWN	17.34	7.5	J
10.	UNKNOWN	17.67	21	JB
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

Data File: /chem/X.i/Xsvr.p/xckato15.b/438422.d
Date : 21-NOV-2000 15:49
Client ID: CAEA11130006
Sample Info: 438422;029ACAEA11130006;80694;1121H7
Purge Volume: 200.0
Column phase: DB-1

Instrument: X.i
Operator: GMH
Column diameter: 0.35



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STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/X.i/Xsvr.p/xckato15.b/438422.d
Lab Smp Id: 438422 Client Smp ID: CAEA11130006
Inj Date : 21-NOV-2000 15:49
Operator : GMM Inst ID: X.i
Smp Info : 438422;029ACAEA11130006;80694;1121H7
Misc Info :
Comment :
Method : /chem/X.i/Xsvr.p/xckato15.b/ato15.m
Meth Date : 28-Nov-2000 14:00 mim Quant Type: ISTD
Cal Date : 20-NOV-2000 10:11 Cal File: ck040.d
Als bottle: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA2.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
2 Chloromethane	50	Compound Not Detected.					
4 Vinyl Chloride	62	Compound Not Detected.					
6 Bromomethane	94	Compound Not Detected.					
7 Chloroethane	64	Compound Not Detected.					
10 Trichlorofluoromethane	101	Compound Not Detected.					
13 Methylene Chloride	49	Compound Not Detected.					
18 1,1-Dichloroethane	63	Compound Not Detected.					
21 cis-1,2-Dichloroethene	61	Compound Not Detected.					
22 Bromochloromethane	128	8.504	8.473	(1.000)	227248	10.0000	
24 Chloroform	83	Compound Not Detected.					
26 1,2-Dichloroethane	62	Compound Not Detected.					
27 1,1,1-Trichloroethane	97	Compound Not Detected.					
28 Benzene	78	Compound Not Detected.					
29 Carbon Tetrachloride	117	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
* 31 1,4-Difluorobenzene	114	10.507	10.461	(1.000)	1077334	10.0000	
32 1,2-Dichloropropane	63	Compound Not Detected.					
34 Trichloroethene	95	Compound Not Detected.					
38 cis-1,3-Dichloropropene	75	Compound Not Detected.					
40 trans-1,3-Dichloropropene	75	Compound Not Detected.					
41 1,1,2-Trichloroethane	83	Compound Not Detected.					
42 Toluene	92	13.239	13.208	(0.864)	371811	7.58569	7.6
46 Tetrachloroethene	166	Compound Not Detected.					
* 47 Chlorobenzene-d5	117	15.318	15.272	(1.000)	1233858	10.0000	
48 Chlorobenzene	112	Compound Not Detected.					
49 Ethylbenzene	91	15.849	15.803	(1.035)	1231244	10.7218	11
50 Xylene (m,p)	106	16.061	16.015	(1.049)	234781	6.08338	6.1
52 Styrene	104	Compound Not Detected.					
53 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
54 Xylene (o)	106	16.668	16.622	(1.088)	37079	1.00142	1.0
59 1,3-Dichlorobenzene	146	Compound Not Detected.					
60 1,4-Dichlorobenzene	146	Compound Not Detected.					
61 1,2-Dichlorobenzene	146	Compound Not Detected.					

STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/X.i/Xsvr.p/xckato15.b/438422.d
Lab Smp Id: 438422 Client Smp ID: CAEA11130006
Inj Date : 21-NOV-2000 15:49
Operator : GMM Inst ID: X.i
Smp Info : 438422;029ACAEA11130006;80694;1121H7
Misc Info :
Comment :
Method : /chem/X.i/Xsvr.p/xckato15.b/ato15.m
Meth Date : 28-Nov-2000 13:48 mim Quant Type: ISTD
Cal Date : 20-NOV-2000 10:11 Cal File: ck040.d
Als bottle: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
* 47 Chlorobenzene-d5	15.318	4986791	10.000

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ppbv)	FINAL(ppbv)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown aliphatic compound				CAS #:			
11.497	10333026	20.7207904	21	0		0	47
Unknown aliphatic compound				CAS #:			
11.709	6137484	12.3074794	12	0		0	47

RT	AREA	CONCENTRATIONS ON-COL(ppbv)	FINAL(ppbv)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Unknown aliphatic compound					CAS #:		
4.423	18151152	36.3984572	36	0		0	47
Unknown					CAS #:		
5.242	4830274	9.68613493	9.7	0		0	47
Unknown					CAS #:		
5.424	5255268	10.5383756	10	0		0	47
Unknown aliphatic compound					CAS #:		
5.576	29155580	58.4656069	58	0		0	47
Unknown aliphatic compound					CAS #:		
5.652	7533555	15.1070184	15	0		0	47
Unknown					CAS #:		
6.805	19087489	38.2760908	38	0		0	47
Unknown					CAS #:		
7.336	3745675	7.51119170	7.5	0		0	47
Unknown					CAS #:		
7.670	10519147	21.0940179	21	0		0	47

Data File: /chem/X.i/Xsvr.p/xokato15.b/438422.d

Date : 21-NOV-2000 15:49

Client ID: CAEA11130006

Instrument: X.i

Sample Info: 438422;029ACAEA11130006;80694;1121H7

Purge Volume: 200.0

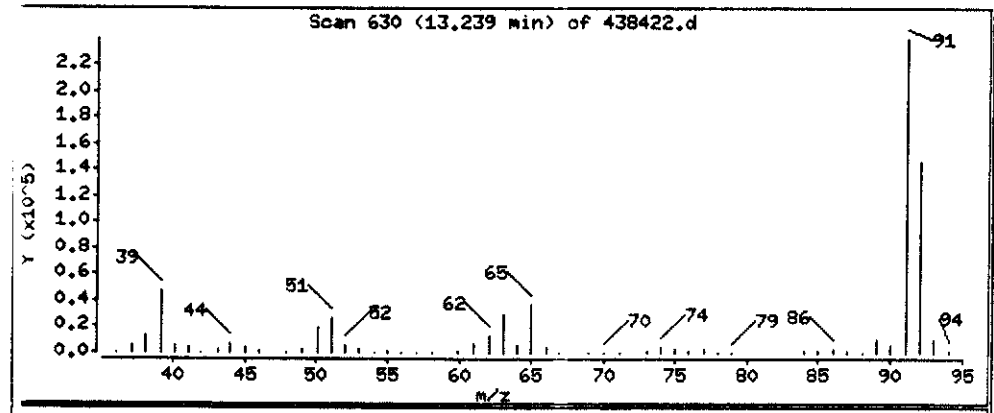
Operator: GMH

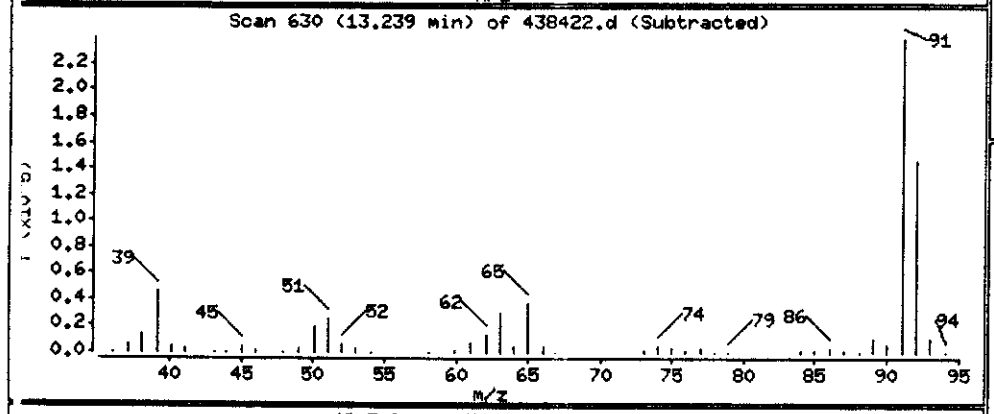
Column phase: DB-1

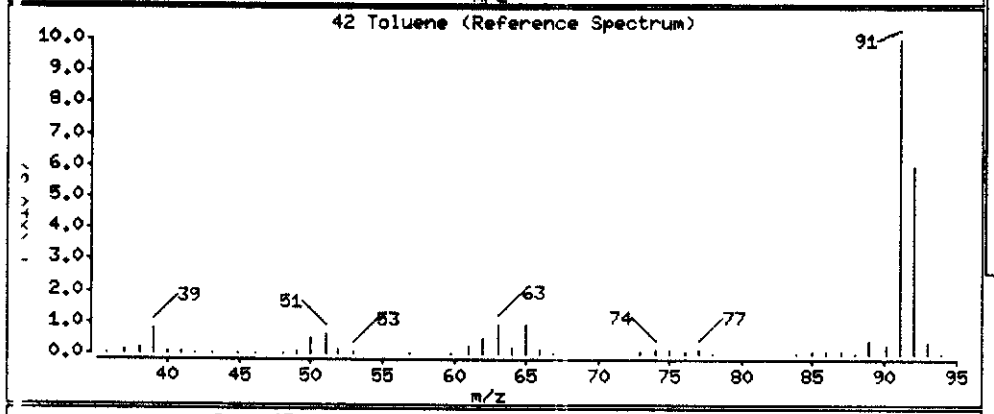
Column diameter: 0.35

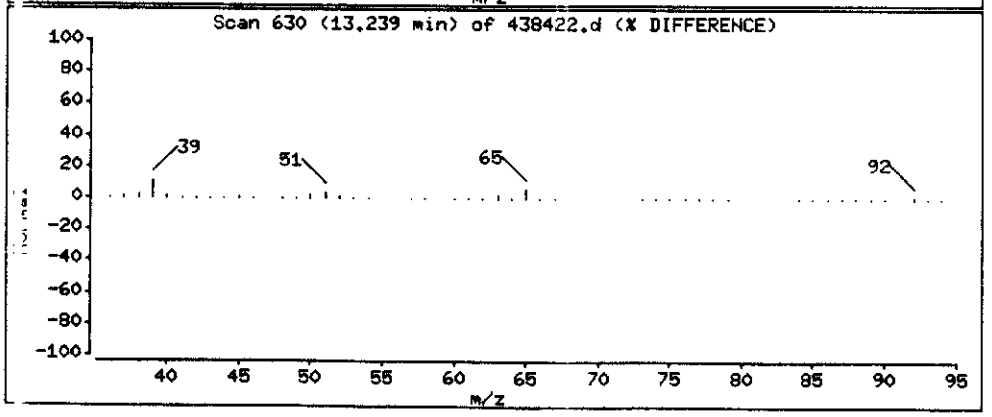
42 Toluene

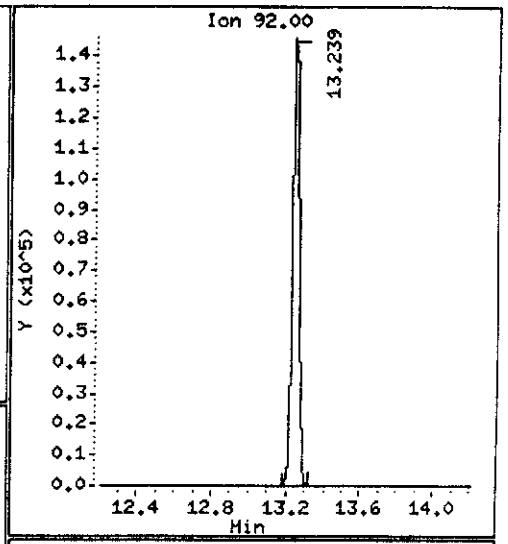
Concentration: 7.6 ppbv

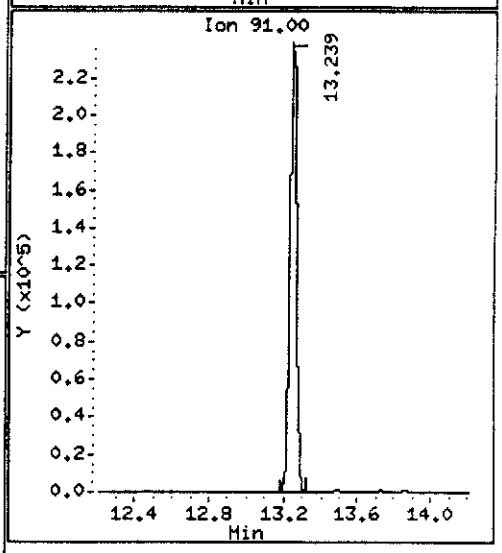












Data File: /chem/X.i/Xsvr.p/xckato15.b/438422.d

Date : 21-NOV-2000 15:49

Client ID: CAEA11130006

Instrument: X.i

Sample Info: 438422;029ACAEA11130006;80694;1121H7

Purge Volume: 200.0

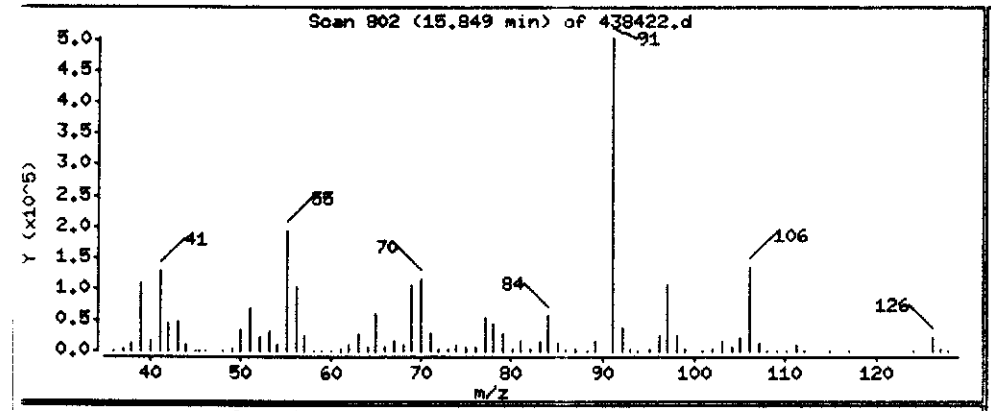
Operator: GMH

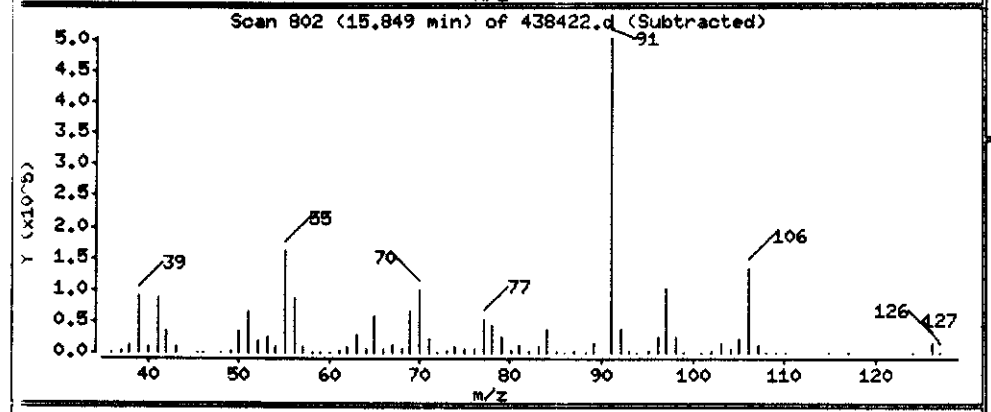
Column phase: DB-1

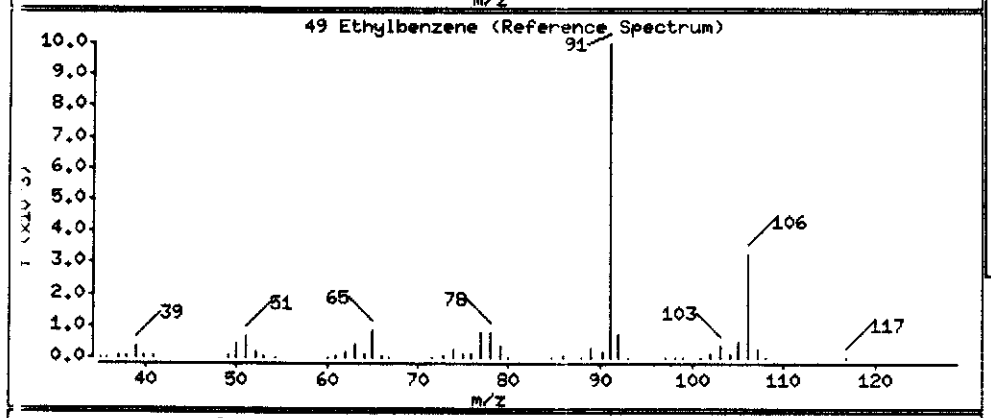
Column diameter: 0.35

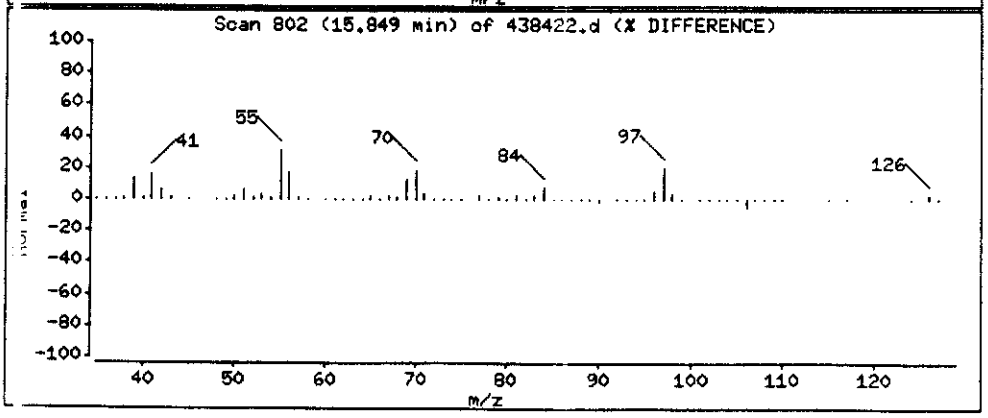
49 Ethylbenzene

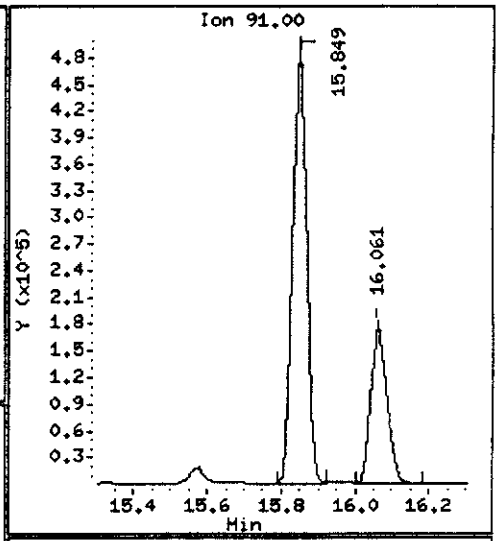
Concentration: 11 ppbv

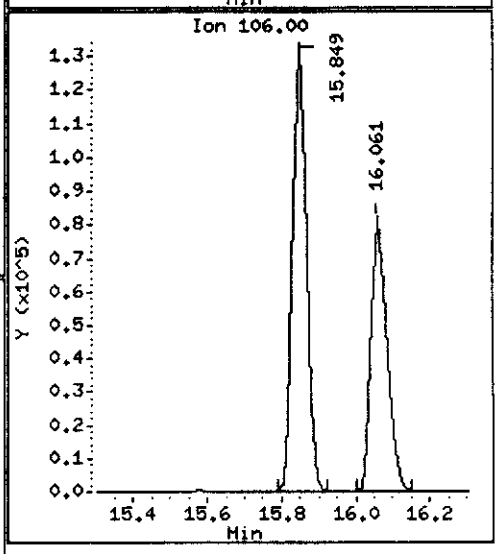












Data File: /chem/X.i/Xsvr.p/xckato15.b/438422.d

Date : 21-NOV-2000 15:49

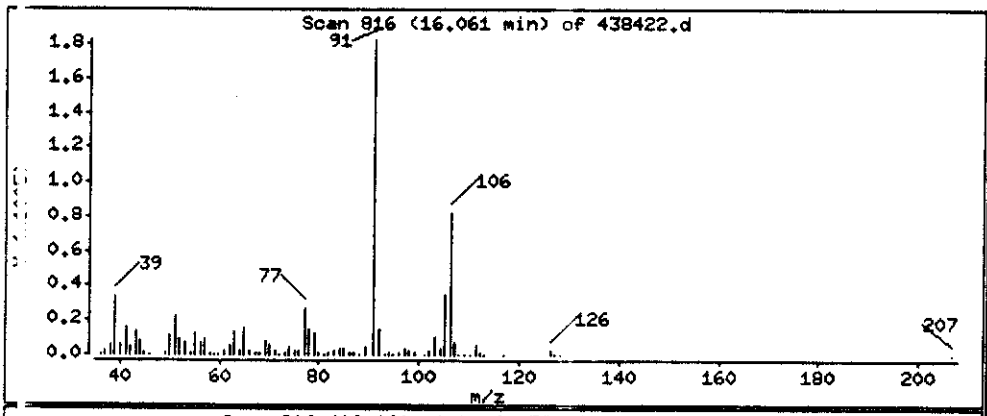
Client ID: CAEA11130006 Instrument: X.i

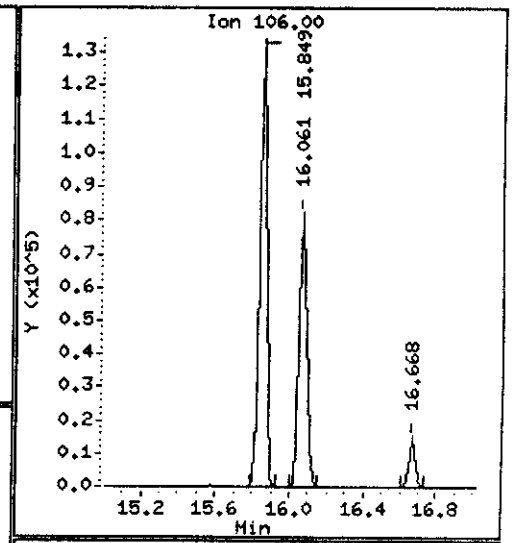
Sample Info: 438422;029ACAEA11130006;80694;1121H7

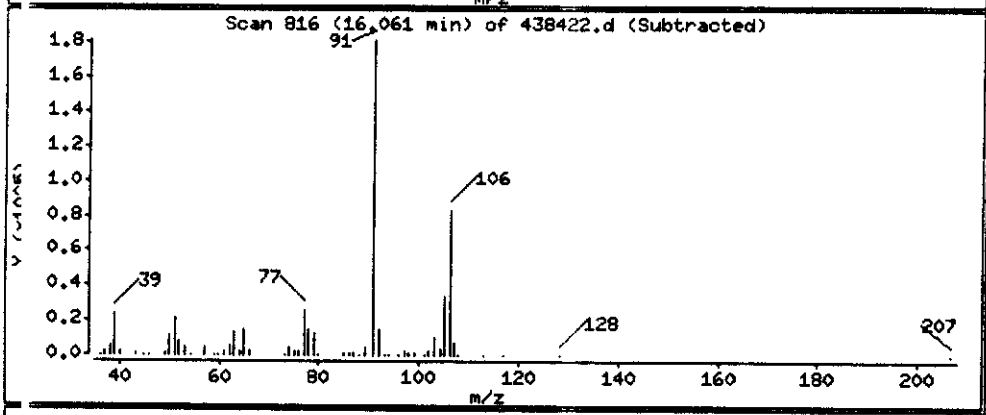
Purge Volume: 200.0 Operator: GMM

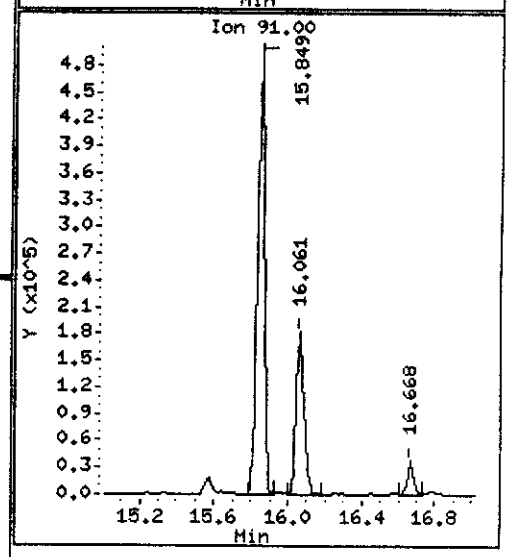
Column phase: DB-1 Column diameter: 0.35

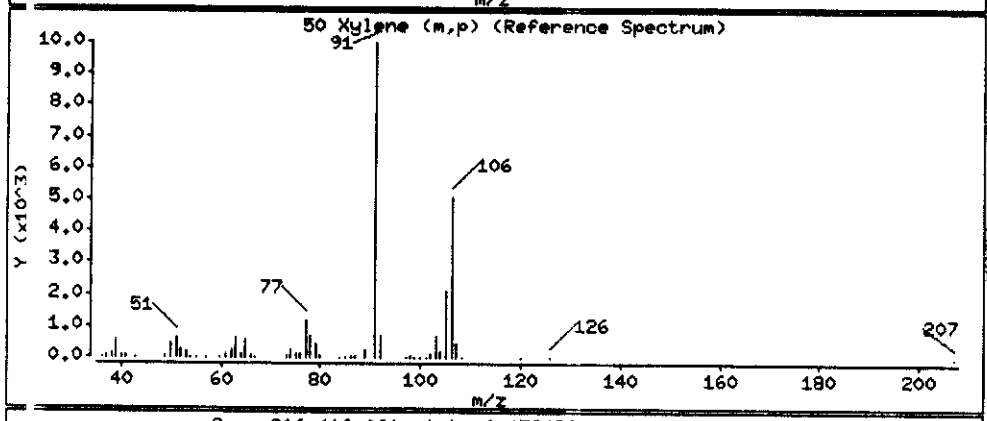
50 Xylene (m,p) Concentration: 6.1 ppbv

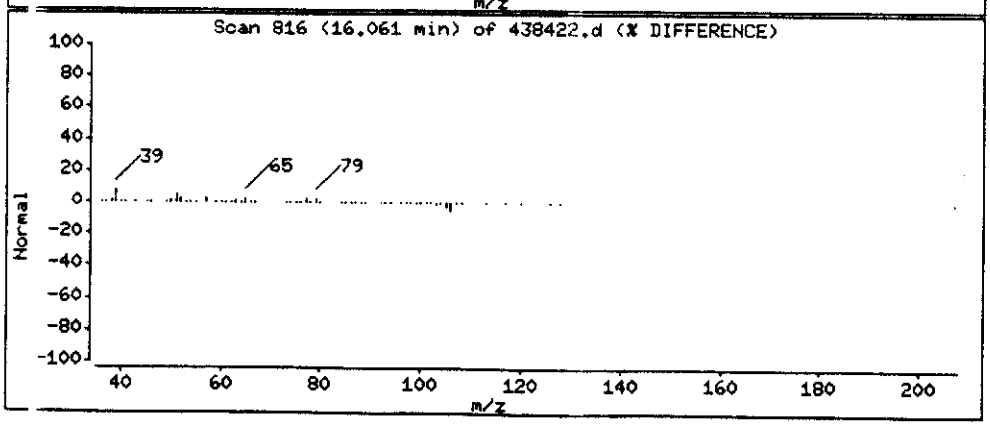












Data File: /chem/X.i/Xsvr.p/xckato15.b/438422.d

Date : 21-NOV-2000 15:49

Client ID: CAEA11130006

Instrument: X.i

Sample Info: 438422;029ACAEA11130006;80694;1121H7

Purge Volume: 200.0

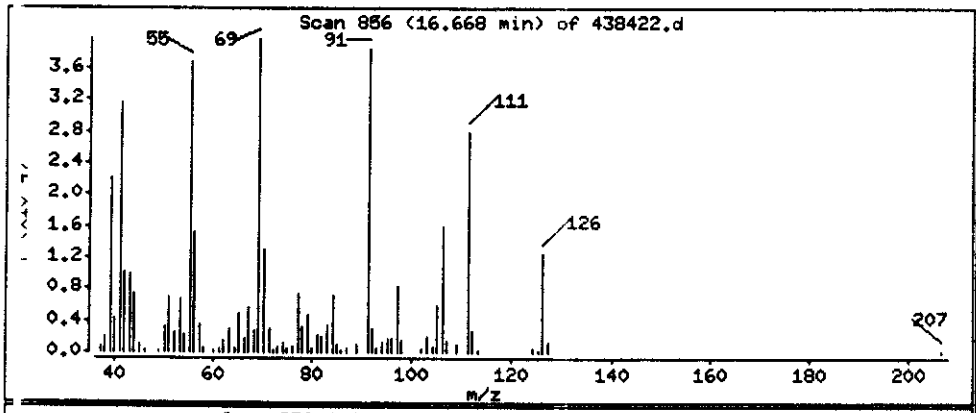
Operator: GMM

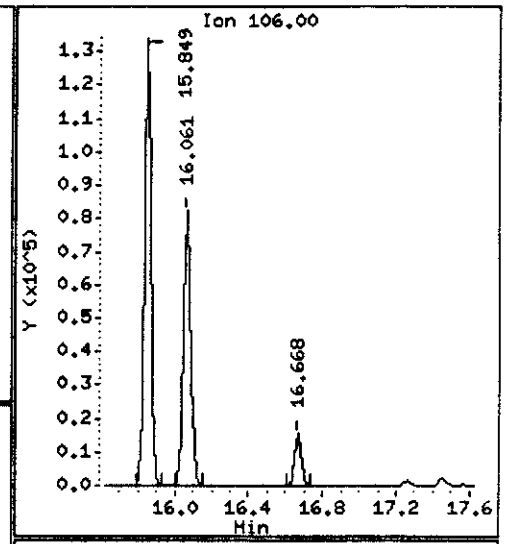
Column phase: DB-1

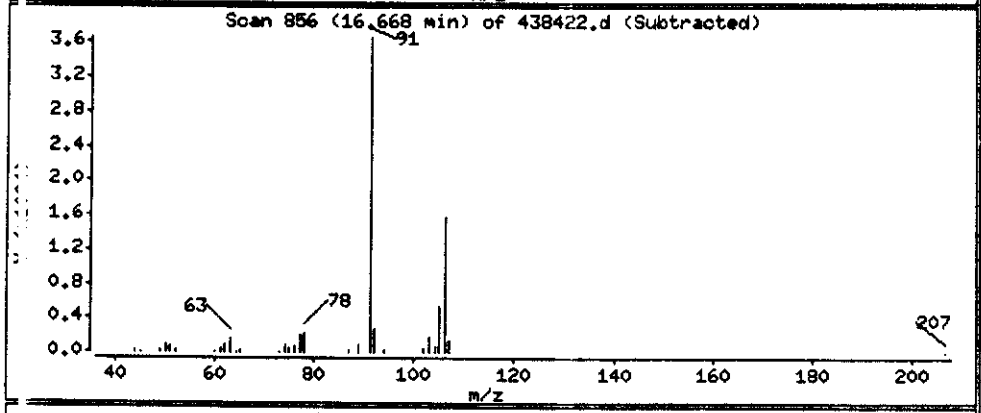
Column diameter: 0.35

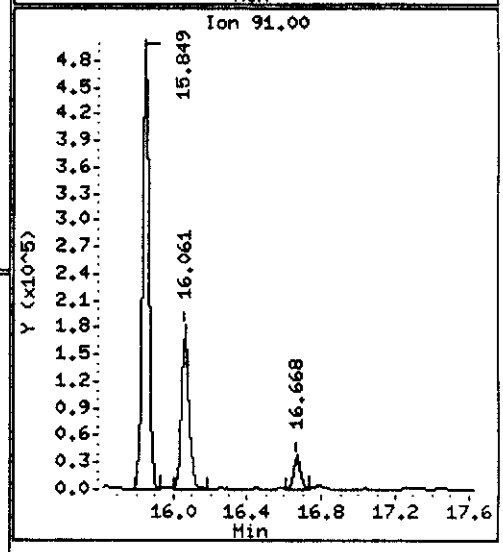
54 Xylene (o)

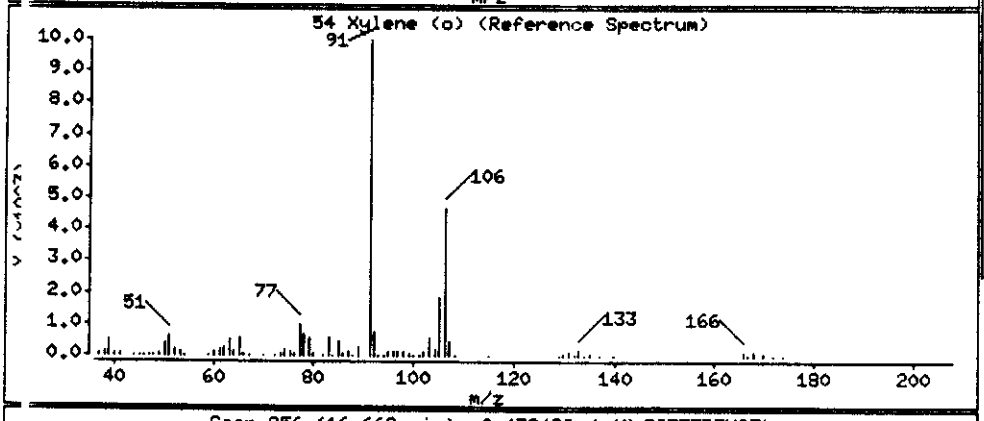
Concentration: 1.0 ppbv

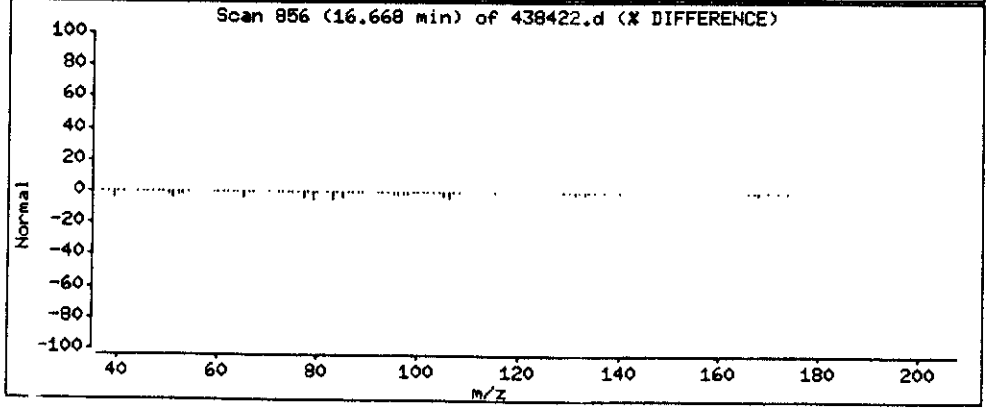












Data File: /chem/X.i/Xsvr.p/xckato15.b/438422.d

Date : 21-NOV-2000 15:49

Client ID: CAEA11130006

Instrument: X.i

Sample Info: 438422;029ACAEA11130006;80694;1121H7

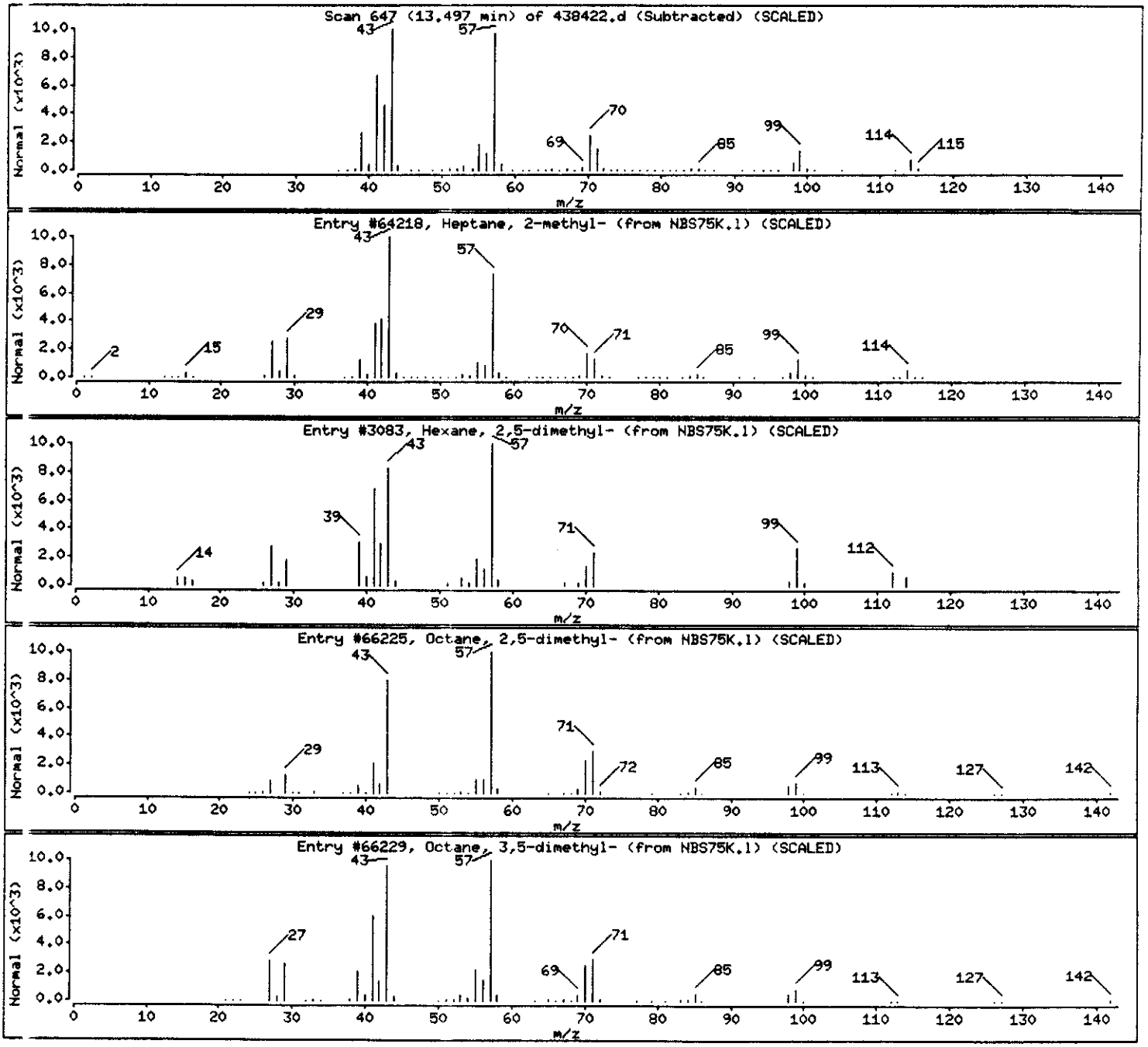
Purge Volume: 200.0

Operator: GHM

Column phase: DB-1

Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown aliphatic compound						
Heptane, 2-methyl-	592-27-8	NBS75K.l	64218	91	C8H18	114
Hexane, 2,5-dimethyl-	592-13-2	NBS75K.l	3083	49	C8H18	114
Octane, 2,5-dimethyl-	15869-89-3	NBS75K.l	66225	47	C10H22	142
Octane, 3,5-dimethyl-	15869-93-9	NBS75K.l	66229	40	C10H22	142



Data File: /chem/X.i/Xsvr.p/xckato15.b/438422.d

Date : 21-NOV-2000 15:49

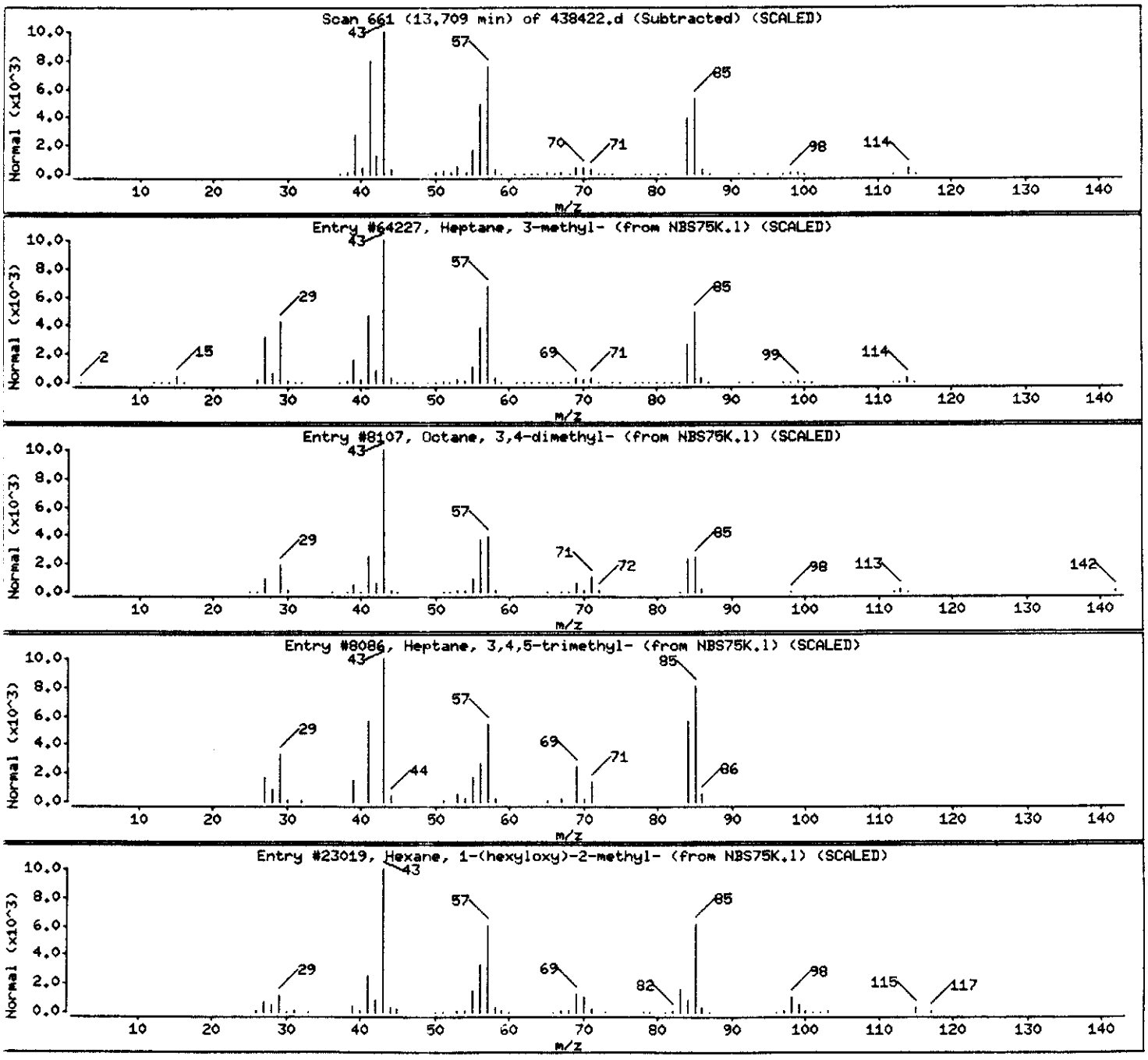
Client ID: CAEA11130006 Instrument: X.i

Sample Info: 438422;029ACAEA11130006;80694;1121H7

Purge Volume: 200.0 Operator: GHM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown aliphatic compound						
Heptane, 3-methyl-	589-81-1	NBS75K.1	64227	91	C8H18	114
Octane, 3,4-dimethyl-	15869-92-8	NBS75K.1	8107	64	C10H22	142
Heptane, 3,4,5-trimethyl-	20278-89-1	NBS75K.1	8086	59	C10H22	142
Hexane, 1-(hexyloxy)-2-methyl-	74421-17-3	NBS75K.1	23019	53	C13H280	200



Data File: /chem/X.i/Xsvr.p/xckato15.b/438422.d

Date : 21-NOV-2000 15:49

Client ID: CAEA11130006

Instrument: X.i

Sample Info: 438422;029ACAEA11130006;80694;1121H7

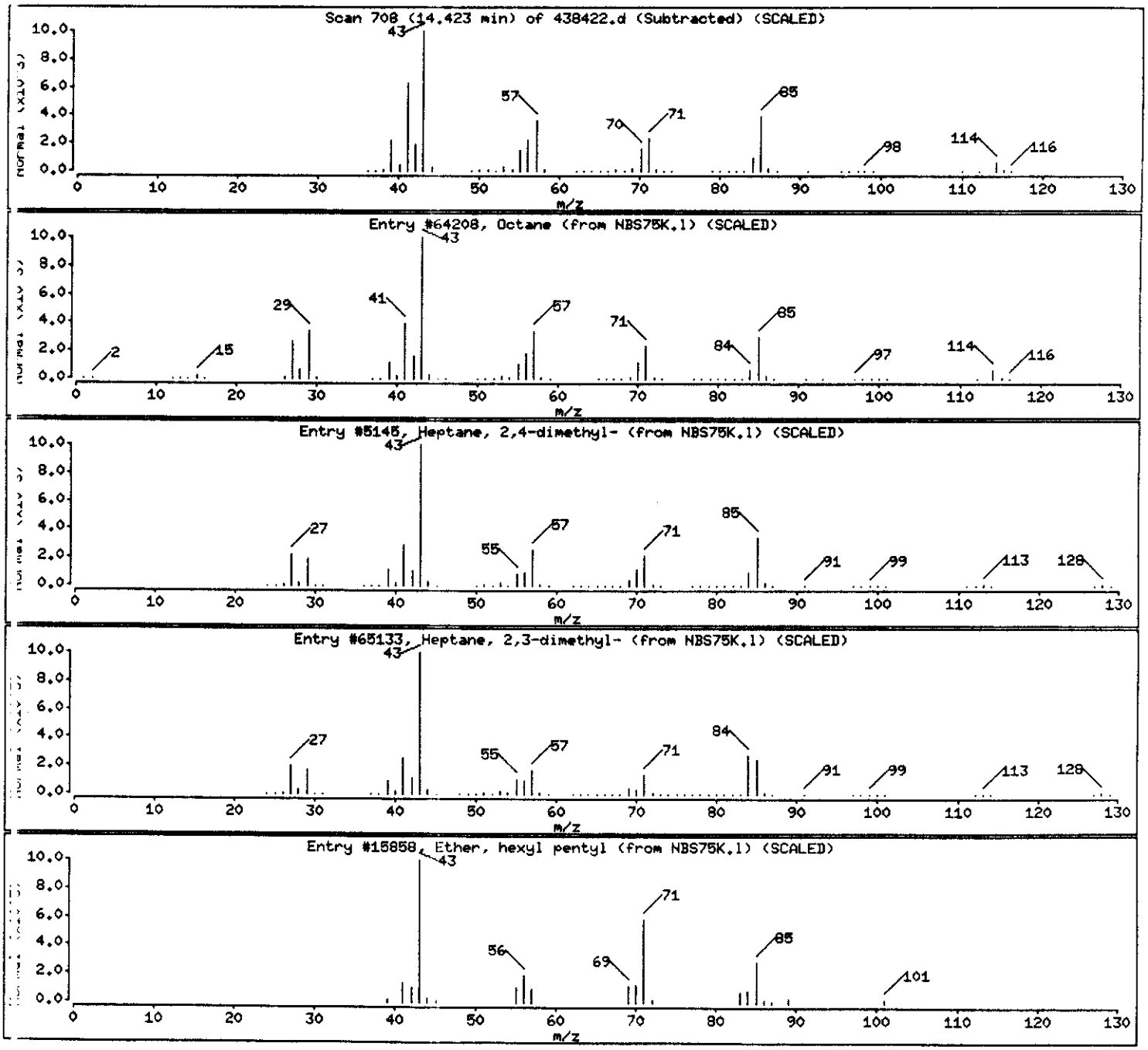
Purge Volume: 200.0

Operator: GHH

Column phase: DB-1

Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown aliphatic compound						
Octane	111-65-9	NBS75K.1	64208	94	C8H18	114
Heptane, 2,4-dimethyl-	2213-23-2	NBS75K.1	5145	64	C9H20	128
Heptane, 2,3-dimethyl-	3074-71-3	NBS75K.1	65133	53	C9H20	128
Ether, hexyl pentyl	32357-83-8	NBS75K.1	15858	45	C11H240	172



Data File: /chem/X.i/Xsvr.p/xckato15.b/438422.d

Date : 21-NOV-2000 15:49

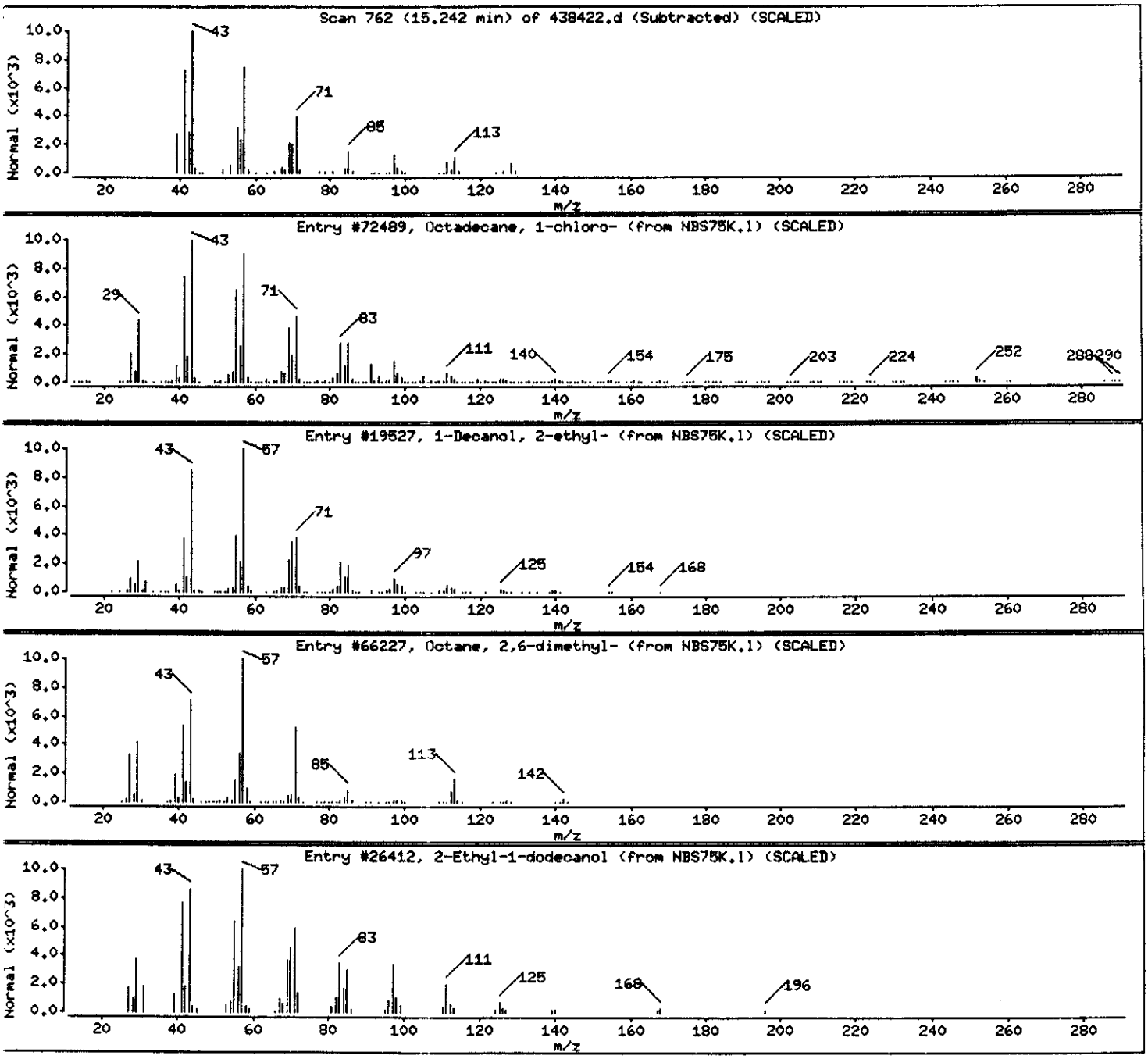
Client ID: CAEA11130006 Instrument: X.i

Sample Info: 438422;029ACAEA11130006;80694;1121H7

Purge Volume: 200.0 Operator: GHH

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Octadecane, 1-chloro-	3386-33-2	NBS75K.l	72489	59	C18H37Cl	288
1-Decanol, 2-ethyl-	21078-65-9	NBS75K.l	19527	53	C12H26O	186
Octane, 2,6-dimethyl-	2051-30-1	NBS75K.l	66227	50	C10H22	142
2-Ethyl-1-dodecanol	0-00-0	NBS75K.l	26412	47	C14H30O	214



Data File: /chem/X.i/Xsvr.p/xokato15.b/438422.d

Date : 21-NOV-2000 15:49

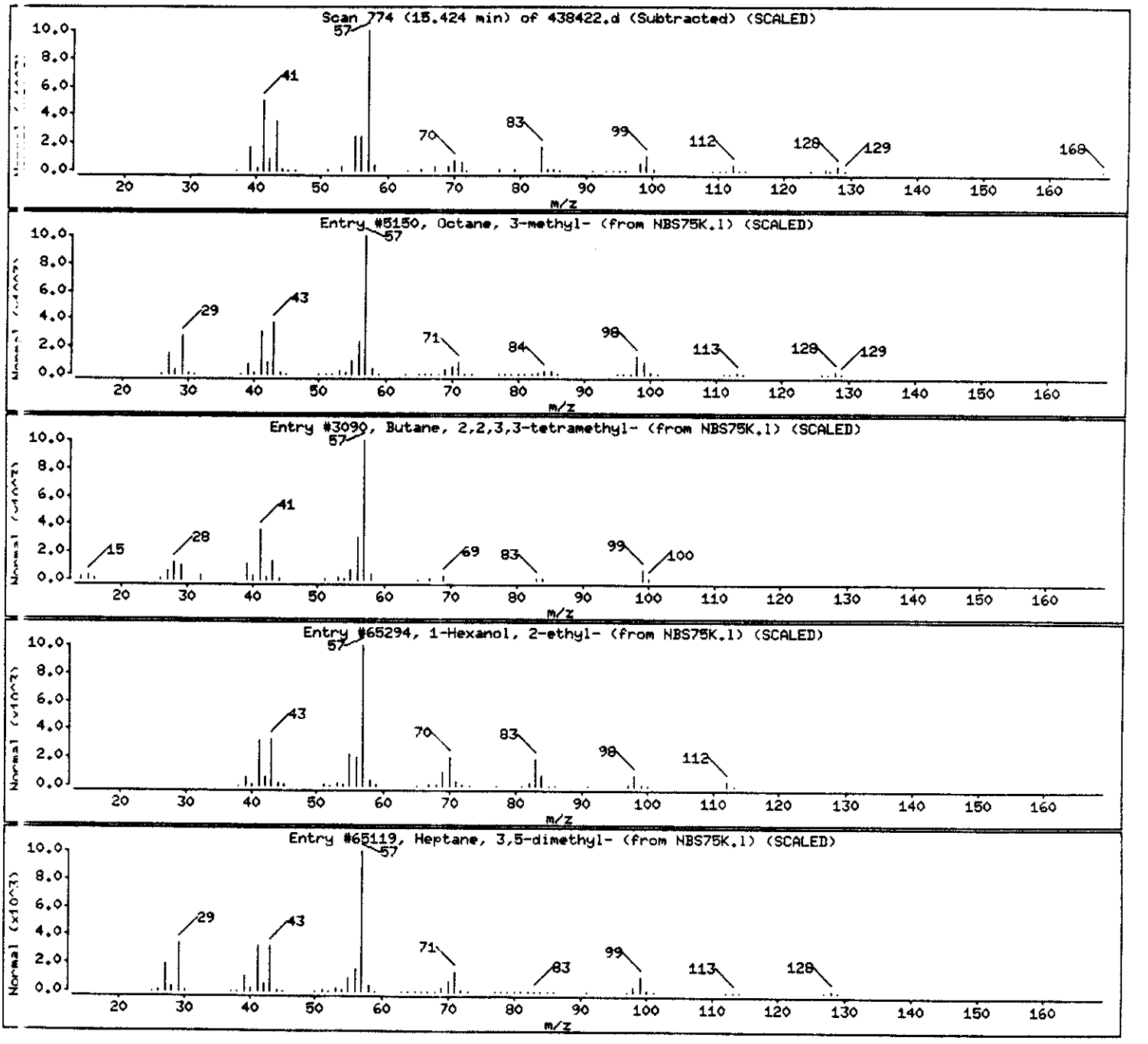
Client ID: CAEA11130006 Instrument: X.i

Sample Info: 438422;029ACAEA11130006;80694;1121H7

Purge Volume: 200.0 Operator: GHH

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Octane, 3-methyl-	2216-33-3	NBS75K.l	5150	50	C9H20	128
Butane, 2,2,3,3-tetramethyl-	594-82-1	NBS75K.l	3090	50	C8H18	114
1-Hexanol, 2-ethyl-	104-76-7	NBS75K.l	65294	47	C8H18O	130
Heptane, 3,5-dimethyl-	926-82-9	NBS75K.l	65119	43	C9H20	128



Data File: /chem/X.i/Xsvr.p/xckato15.b/438422.d

Date : 21-NOV-2000 15:49

Client ID: CAEA11130006

Instrument: X.i

Sample Info: 438422;029ACAEA11130006;80694;1121H7

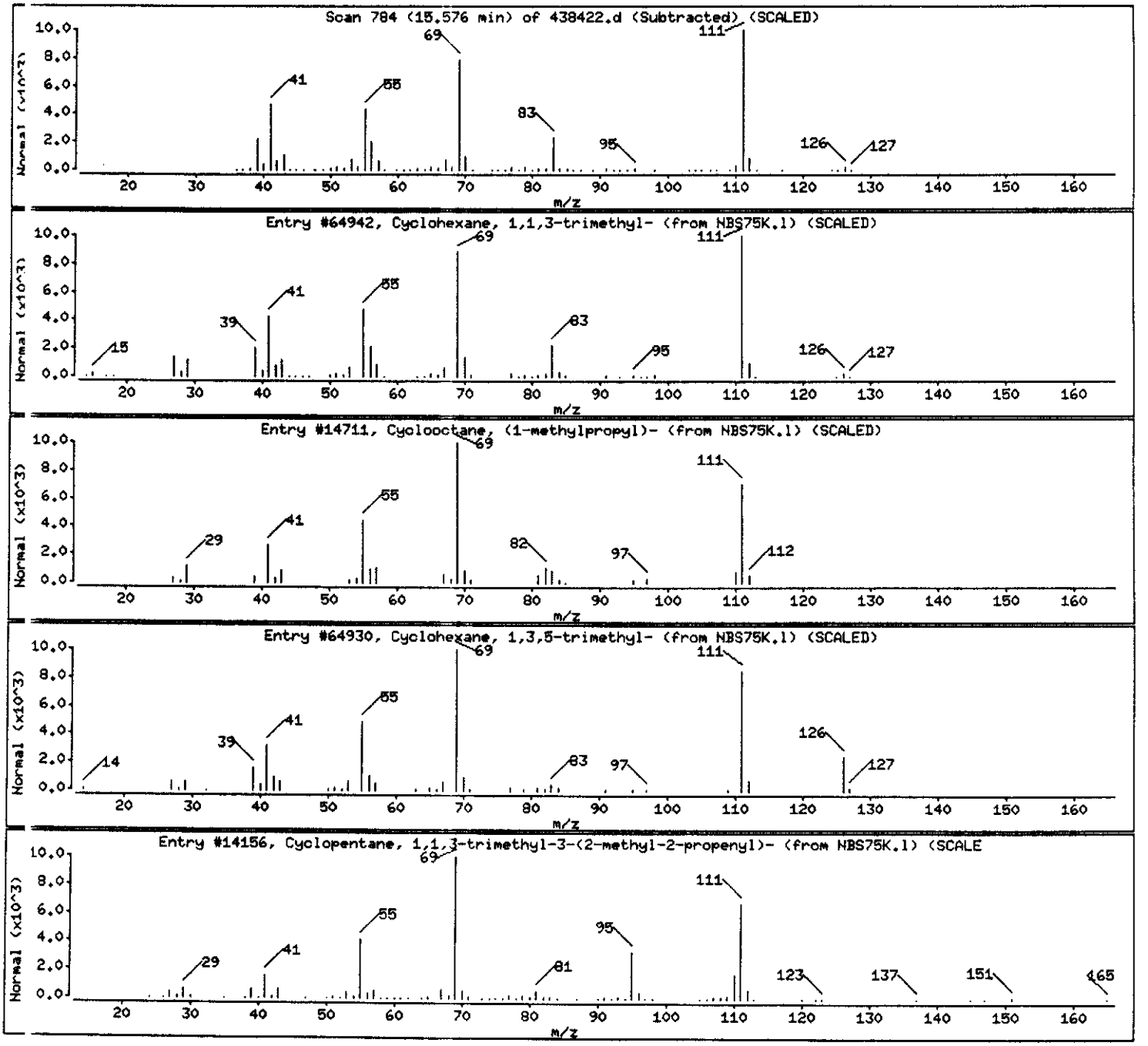
Purge Volume: 200.0

Operator: GMM

Column phase: DB-1

Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown aliphatic compound						
Cyclohexane, 1,1,3-trimethyl-	3073-66-3	NBS75K.l	64942	95	C9H18	126
Cyclooctane, (1-methylpropyl)-	16538-89-9	NBS75K.l	14711	72	C12H24	168
Cyclohexane, 1,3,5-trimethyl-	1839-63-0	NBS75K.l	64930	64	C9H18	126
Cyclopentane, 1,1,3-trimethyl-3-(2-methy	74421-09-3	NBS75K.l	14156	59	C12H22	166



Data File: /chem/X.i/Xsvr.p/xckato15.b/438422.d

Date : 21-NOV-2000 15:49

Client ID: CAEA11130006

Instrument: X.i

Sample Info: 438422;029ACAEA11130006;80694;1121H7

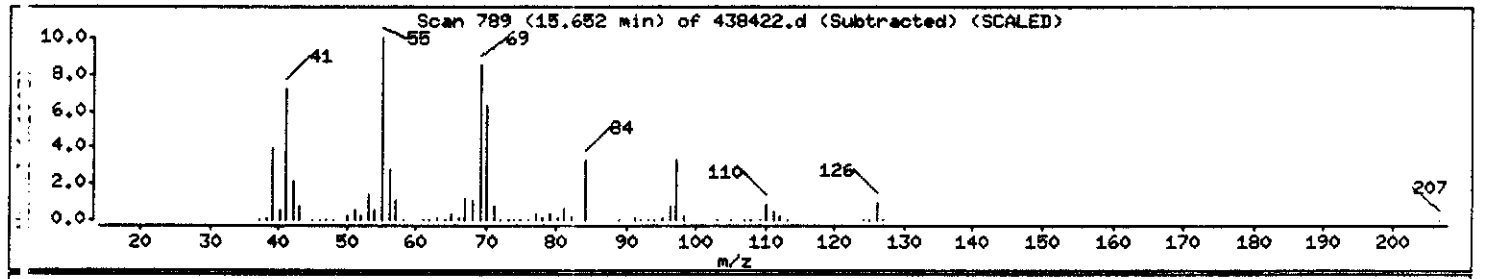
Purge Volume: 200.0

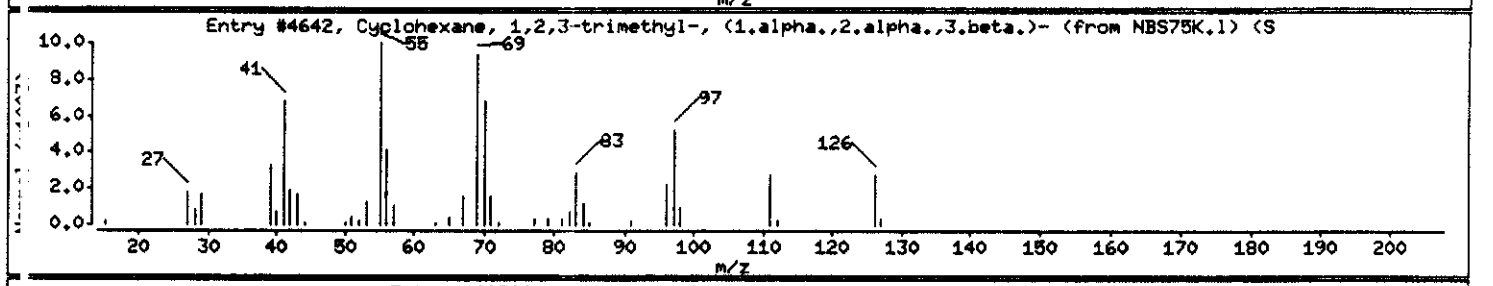
Operator: GHH

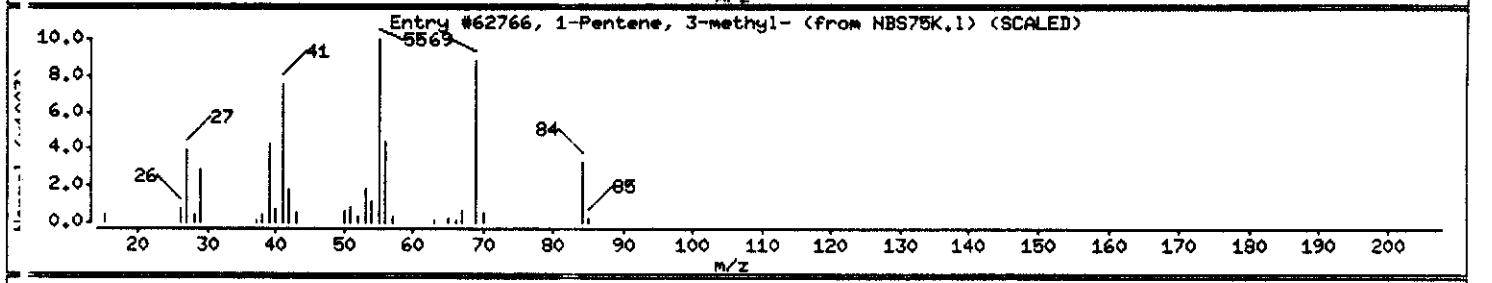
Column phase: DB-1

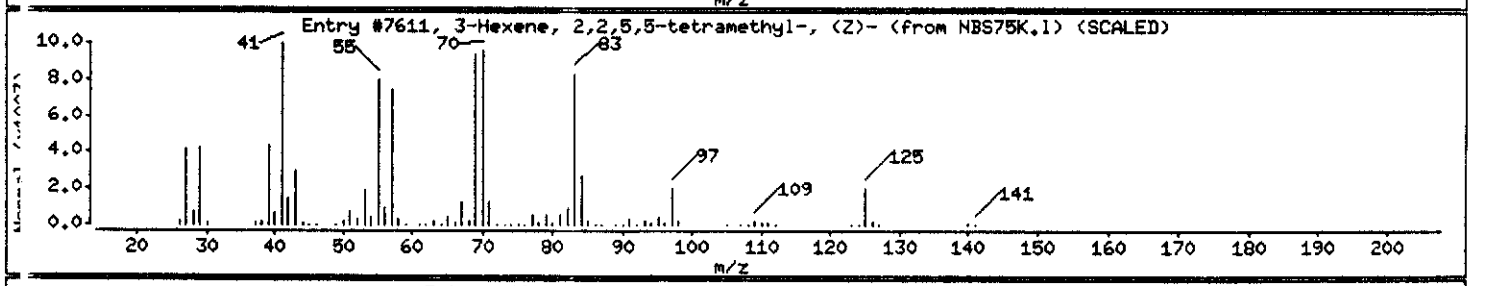
Column diameter: 0.35

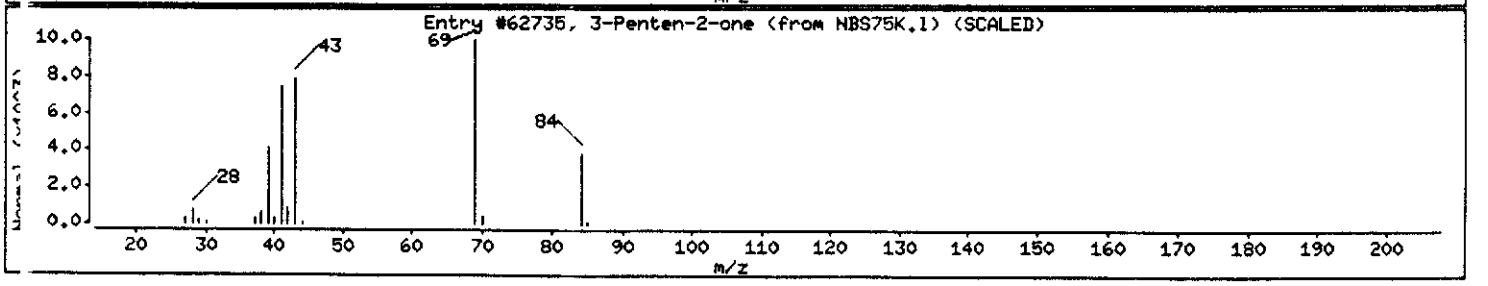
Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown aliphatic compound						
Cyclohexane, 1,2,3-trimethyl-, (1.alpha.	7667-55-2	NBS75K.l	4642	53	C9H18	126
1-Pentene, 3-methyl-	760-20-3	NBS75K.l	62766	52	C6H12	84
3-Hexene, 2,2,5,5-tetramethyl-, (Z)-	692-47-7	NBS75K.l	7611	50	C10H20	140
3-Penten-2-one	625-33-2	NBS75K.l	62735	43	C5H8O	84











Data File: /chem/X.i/Xsvr.p/xckato15.b/438422.d

Date : 21-NOV-2000 15:49

Client ID: CAEA11130006

Instrument: X.i

Sample Info: 438422;029ACAEA11130006;80694;1121H7

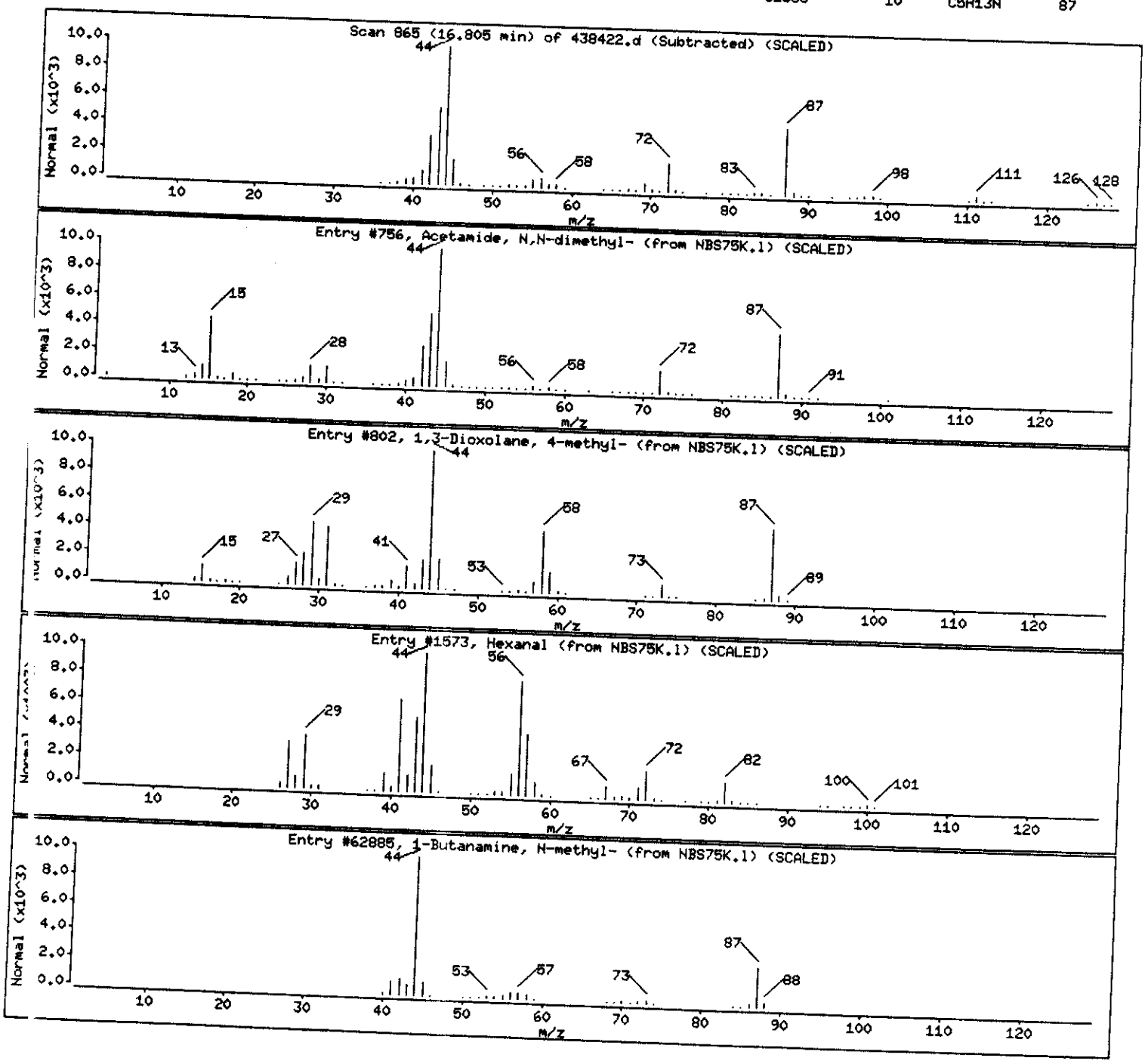
Purge Volume: 200.0

Operator: GHH

Column phase: DB-1

Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Acetamide, N,N-dimethyl-	127-19-5	NBS75K.l	756	87	C4H9NO	87
1,3-Dioxolane, 4-methyl-	1072-47-5	NBS75K.l	802	42	C4H8O2	88
Hexanal	66-25-1	NBS75K.l	1573	28	C6H12O	100
1-Butanamine, N-methyl-	110-68-9	NBS75K.l	62885	10	C5H13N	87



Data File: /chem/X.i/Xsvr.p/xckato15.b/438422.d

Date : 21-NOV-2000 15:49

Client ID: CAEA11130006

Instrument: X.i

Sample Info: 438422;029ACAEA11130006;80694;1121H7

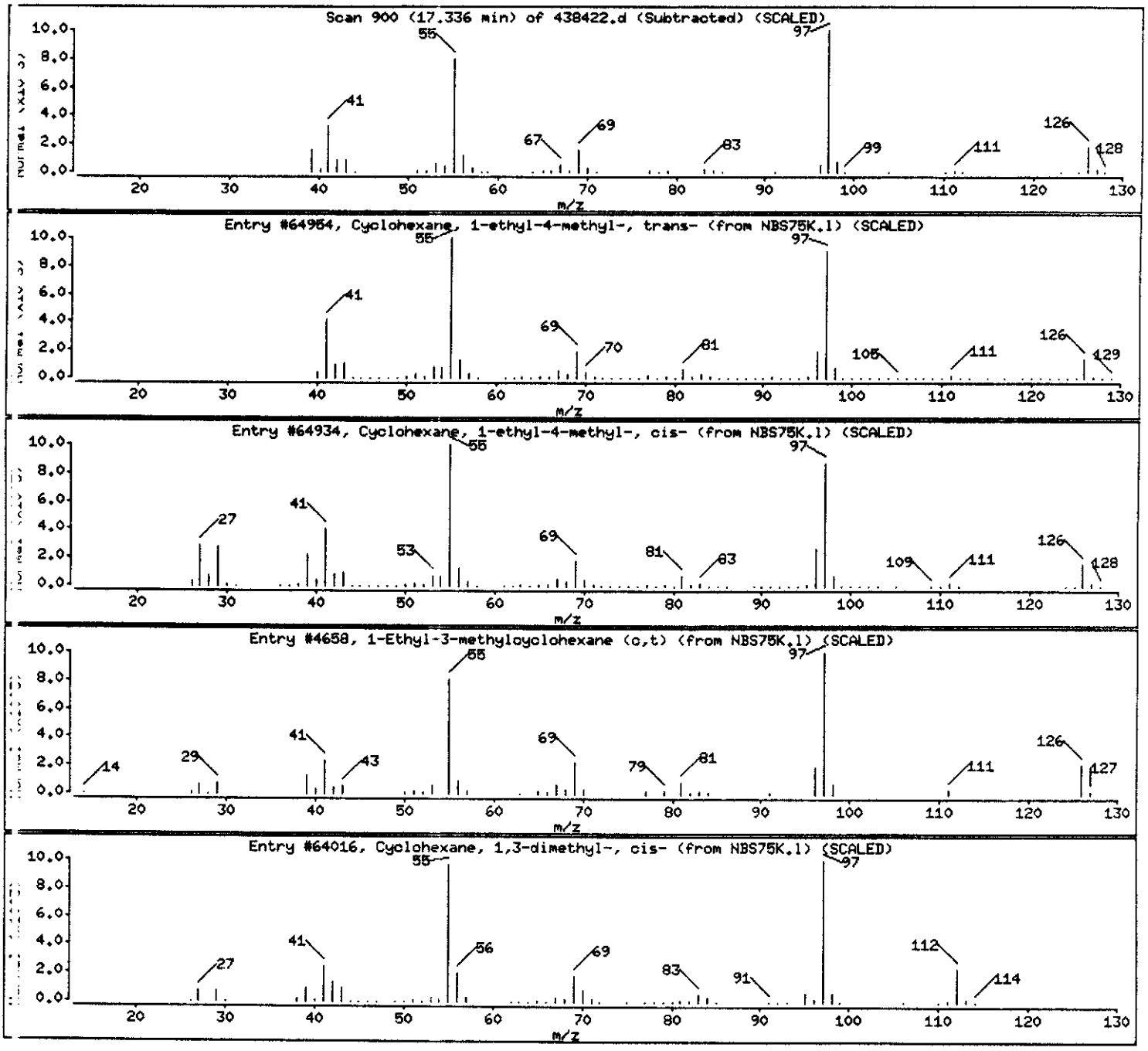
Purge Volume: 200.0

Operator: GHH

Column phase: DB-1

Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Cyclohexane, 1-ethyl-4-methyl-, trans-	6236-88-0	NBS75K.l	64954	91	C9H18	126
Cyclohexane, 1-ethyl-4-methyl-, cis-	4926-78-7	NBS75K.l	64934	87	C9H18	126
1-Ethyl-3-methylcyclohexane (c,t)	3728-55-0	NBS75K.l	4658	87	C9H18	126
Cyclohexane, 1,3-dimethyl-, cis-	638-04-0	NBS75K.l	64016	64	C8H16	112



Data File: /chem/X.i/Xsvr.p/xckato15.b/438422.d

Date : 21-NOV-2000 15:49

Client ID: CAEA11130006

Instrument: X.i

Sample Info: 438422;029ACAEA11130006;80694;1121H7

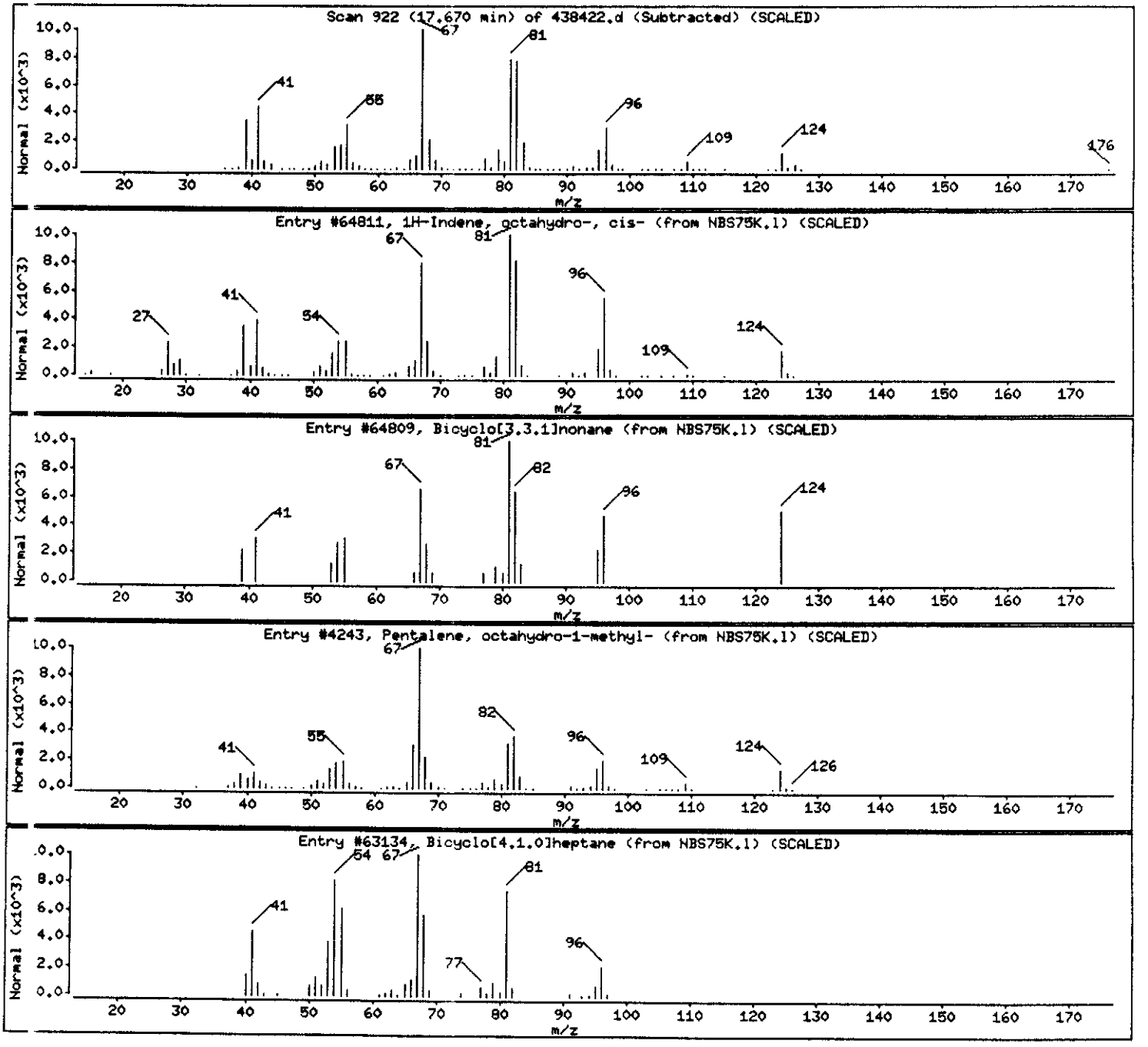
Purge Volume: 200.0

Operator: GMH

Column phase: DB-1

Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1H-Indene, octahydro-, cis-	4551-51-3	NBS75K.l	64811	64	C9H16	124
Bicyclo[3.3.1]nonane	280-65-9	NBS75K.l	64809	52	C9H16	124
Pentalene, octahydro-1-methyl-	32273-77-1	NBS75K.l	4243	46	C9H16	124
Bicyclo[4.1.0]heptane	286-08-8	NBS75K.l	63134	46	C7H12	96



FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ACCANA SAMPLE NO.

CAIA11130006

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80694

Matrix: (soil/water) AIR Lab Sample ID: 438420

Sample wt/vol: 200 (g/mL) ML Lab File ID: 438420

Level: (low/med) LOW Date Received: 11/16/00

% Moisture: not dec. _____ Date Analyzed: 11/21/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-09-2	Methylene Chloride	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	1.2	
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (m,p)	0.85	
100-42-5	Styrene	0.50	U
95-47-6	Xylene (o)	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ACCANA SAMPLE NO.

CAIA11130006

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80694

Matrix: (soil/water) AIR Lab Sample ID: 438420

Sample wt/vol: 200 (g/mL) ML Lab File ID: 438420

Level: (low/med) LOW Date Received: 11/16/00

% Moisture: not dec. _____ Date Analyzed: 11/21/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 10

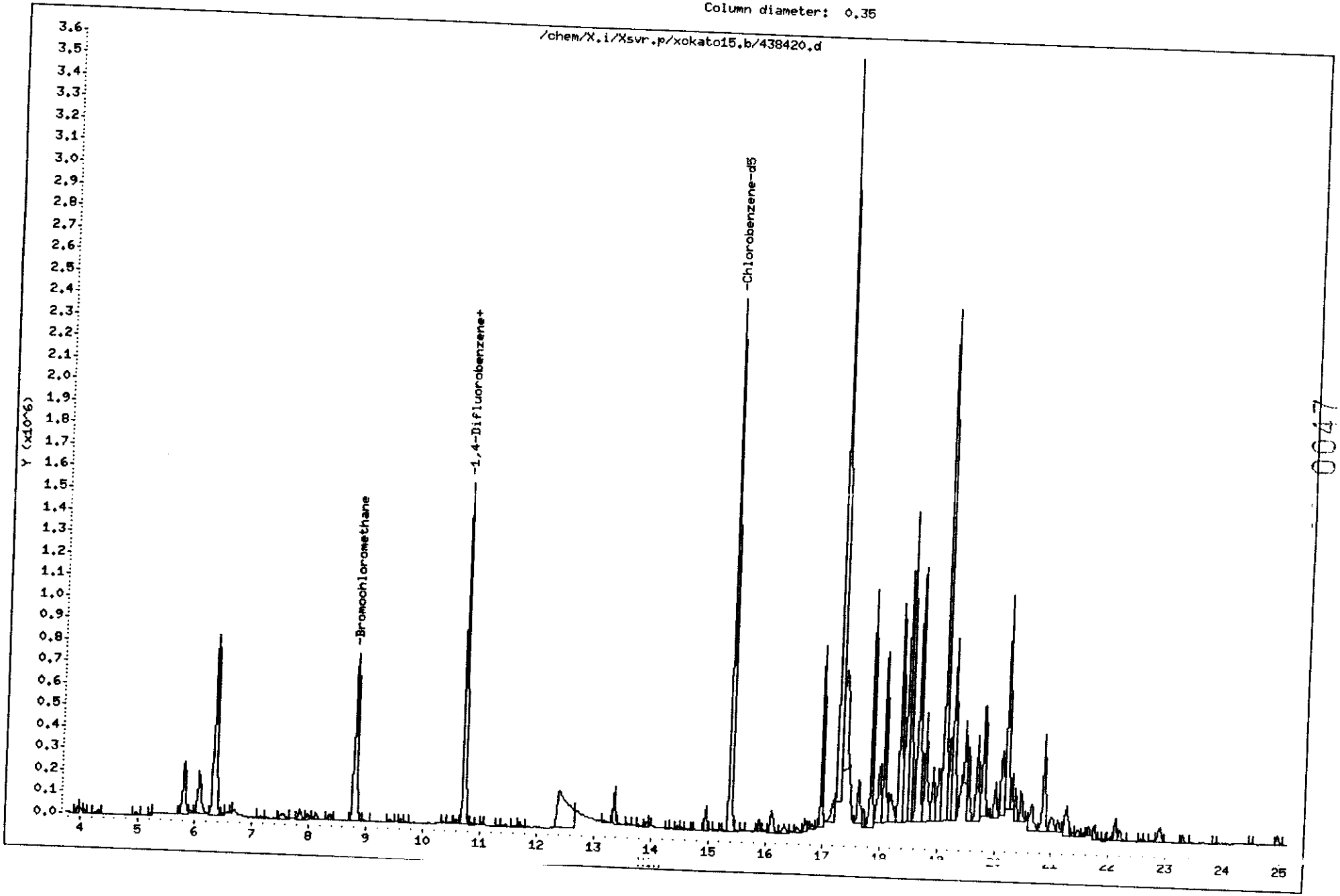
CONCENTRATION UNITS:
(ug/L or ug/Kg) ppbv

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN ALIPHATIC COMPOUND	6.36	11	J
2.	UNKNOWN ALIPHATIC COMPOUND	16.99	3.1	J
3.	UNKNOWN	17.37	3.6	J
4.	UNKNOWN ALIPHATIC COMPOUND	17.85	4.3	J
5.	UNKNOWN ALIPHATIC COMPOUND	18.08	3.6	J
6.	UNKNOWN C3-ALKYLBENZENE	18.34	5.2	J
7.	UNKNOWN ALIPHATIC COMPOUND	18.47	6.9	J
8.	UNKNOWN ALIPHATIC COMPOUND	18.69	7.1	J
9.	UNKNOWN ALIPHATIC COMPOUND	19.28	4.6	J
10.	UNKNOWN ALKYLCYCLOHEXANE	20.20	4.2	J
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

Data File: /chem/X.i/Xsvr.p/xokato15.b/438420.d
Date : 21-NOV-2000 14:39
Client ID: CAIA11130006
Sample Info: 438420;029ACAIA11130006;80694;1121H7
Purge Volume: 200.0
Column phase: DB-1

Instrument: X.i

Operator: GMM
Column diameter: 0.35



0047

STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/X.i/Xsvr.p/xckato15.b/438420.d
Lab Smp Id: 438420 Client Smp ID: CAIA11130006
Inj Date : 21-NOV-2000 14:39
Operator : GMM Inst ID: X.i
Smp Info : 438420;029ACAIA11130006;80694;1121H7
Misc Info :
Comment :
Method : /chem/X.i/Xsvr.p/xckato15.b/ato15.m
Meth Date : 28-Nov-2000 14:00 mim Quant Type: ISTD
Cal Date : 20-NOV-2000 10:11 Cal File: ck040.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA2.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)	
2 Chloromethane	50	Compound Not Detected.						
4 Vinyl Chloride	62	Compound Not Detected.						
6 Bromomethane	94	Compound Not Detected.						
7 Chloroethane	64	Compound Not Detected.						
10 Trichlorofluoromethane	101	Compound Not Detected.						
13 Methylene Chloride	49	Compound Not Detected.						
18 1,1-Dichloroethane	63	Compound Not Detected.						
21 cis-1,2-Dichloroethene	61	Compound Not Detected.						
* 22 Bromochloromethane	128	8.823	8.473	(1.000)	366074	10.0000		(Q)
24 Chloroform	83	Compound Not Detected.						
26 1,2-Dichloroethane	62	Compound Not Detected.						
27 1,1,1-Trichloroethane	97	Compound Not Detected.						
28 Benzene	78	Compound Not Detected.						
29 Carbon Tetrachloride	117	Compound Not Detected.						

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
* 31 1,4-Difluorobenzene	114	10.720	10.461	(1.000)	1710589	10.0000	
32 1,2-Dichloropropane	63	Compound Not Detected.					
34 Trichloroethene	95	Compound Not Detected.					
38 cis-1,3-Dichloropropene	75	Compound Not Detected.					
40 trans-1,3-Dichloropropene	75	Compound Not Detected.					
41 1,1,2-Trichloroethane	83	Compound Not Detected.					
42 Toluene	92	13.361	13.208	(0.869)	86442	1.19320	1.2
46 Tetrachloroethene	166	Compound Not Detected.					
* 47 Chlorobenzene-d5	117	15.379	15.272	(1.000)	1823683	10.0000	
48 Chlorobenzene	112	Compound Not Detected.					
49 Ethylbenzene	91	Compound Not Detected.					
50 Xylene (m,p)	106	16.107	16.015	(1.047)	48425	0.84892	0.85
52 Styrene	104	Compound Not Detected.					
53 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
54 Xylene (o)	106	Compound Not Detected.					
59 1,3-Dichlorobenzene	146	Compound Not Detected.					
60 1,4-Dichlorobenzene	146	Compound Not Detected.					
61 1,2-Dichlorobenzene	146	Compound Not Detected.					

QC Flag Legend

Q - Qualifier signal failed the ratio test.

STL Burlington

AIR TOXICS QUANTITATION REPORT

Iata file : /chem/X.i/Xsvr.p/xckato15.b/438420.d
Iab Smp Id: 438420 Client Smp ID: CAIA11130006
Inj Date : 21-NOV-2000 14:39
Operator : GMM Inst ID: X.i
Smp Info : 438420;029ACAIA11130006;80694;1121H7
Misc Info :
Comment :
Method : /chem/X.i/Xsvr.p/xckato15.b/ato15.m
Meth Date : 28-Nov-2000 13:48 mim Quant Type: ISTD
Cal Date : 20-NOV-2000 10:11 Cal File: ck040.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
* 22 Bromochloromethane	8.823	2961324	10.000
* 47 Chlorobenzene-d5	15.379	6334789	10.000

	CONCENTRATIONS				QUANT		
RT	AREA	ON-COL(ppbv)	FINAL(ppbv)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown aliphatic compound				CAS #:			
6.365	3326533	11.2332607	11	0		0	22(L)
Unknown aliphatic compound				CAS #:			
16.987	1969615	3.10920319	3.1	0		0	47(L)

RT	AREA	CONCENTRATIONS ON-COL(ppbv)	FINAL(ppbv)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
17.367	2314103	3.65300651	3.6	0		0	47
Unknown aliphatic compound				CAS #:			
17.852	2717431	4.28969393	4.3	0		0	47
Unknown aliphatic compound				CAS #:			
18.080	2280131	3.59937914	3.6	0		0	47
Unknown C3-alkylbenzene				CAS #:			
18.338	3319733	5.24047883	5.2	0		0	47
Unknown aliphatic compound				CAS #:			
8.475	4365100	6.89067871	6.9	0		0	47
Unknown aliphatic compound				CAS #:			
8.687	4475184	7.06445560	7.1	0		0	47
Unknown aliphatic compound				CAS #:			
9.279	2916206	4.60347740	4.6	0		0	47
Unknown alkylcyclohexane				CAS #:			
20.205	2674831	4.22244630	4.2	0		0	47

QC Flag Legend

L - Operator selected an alternate library search match.

Data File: /chem/X.i/Xsvr.p/xokato15.b/438420.d

Date : 21-NOV-2000 14:39

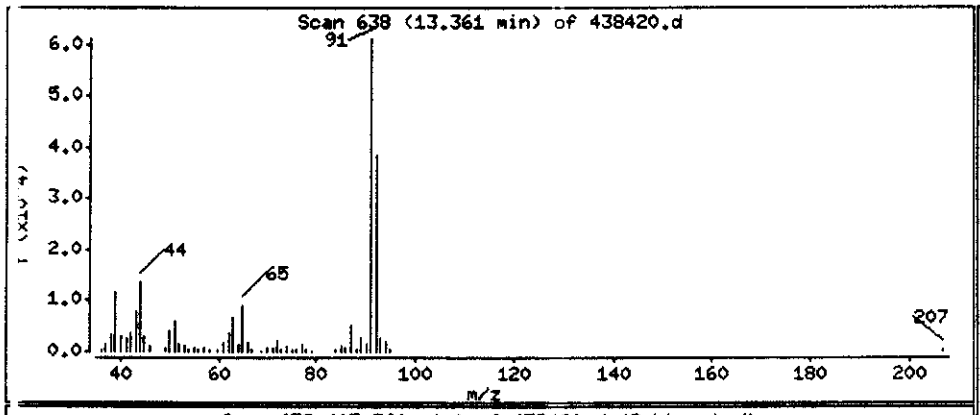
Client ID: CAIA11130006 Instrument: X.i

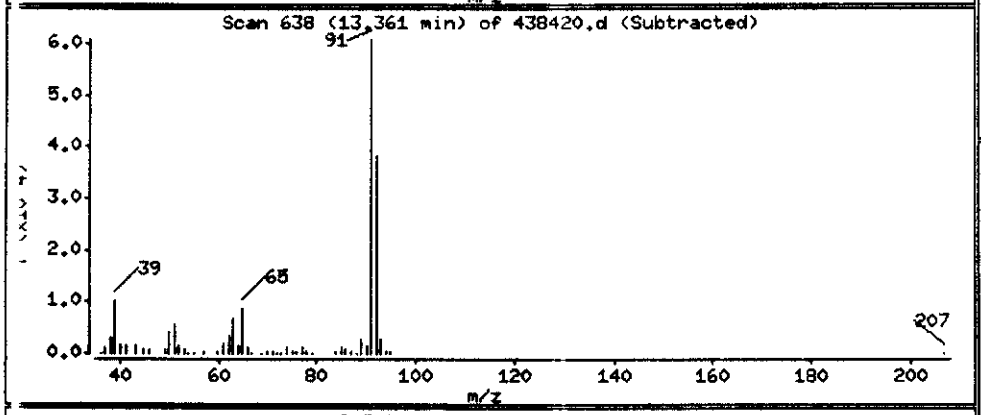
Sample Info: 438420;029ACAIA11130006;80694;1121H7

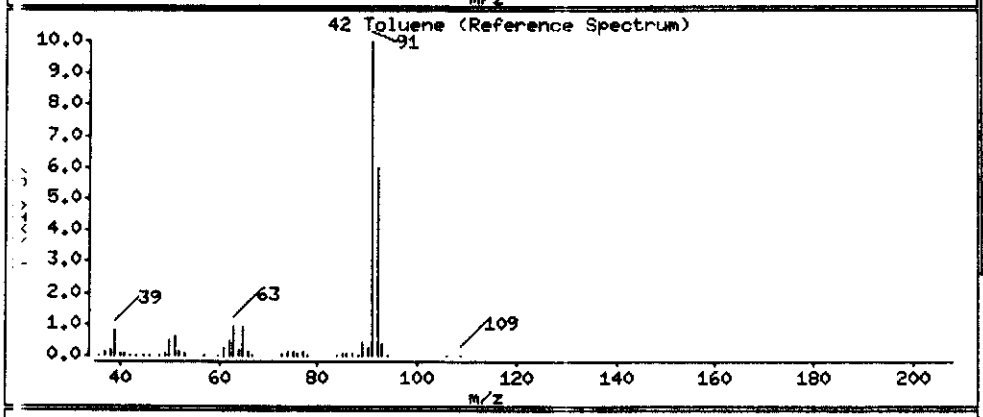
Purge Volume: 200.0 Operator: GHH

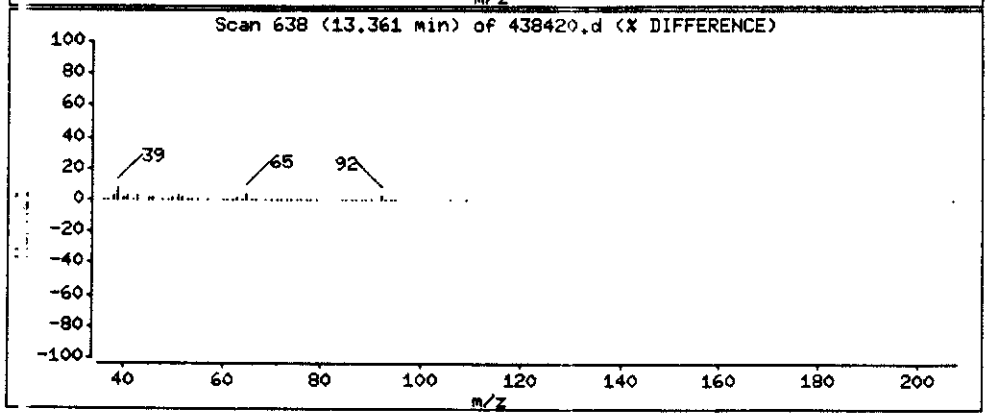
Column phase: DB-1 Column diameter: 0.35

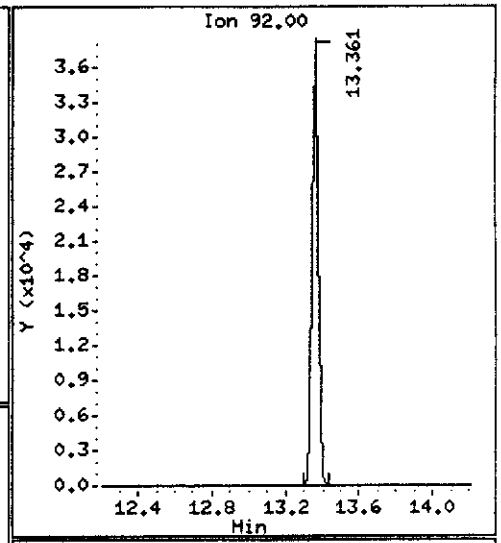
42 Toluene Concentration: 1.2 ppbv

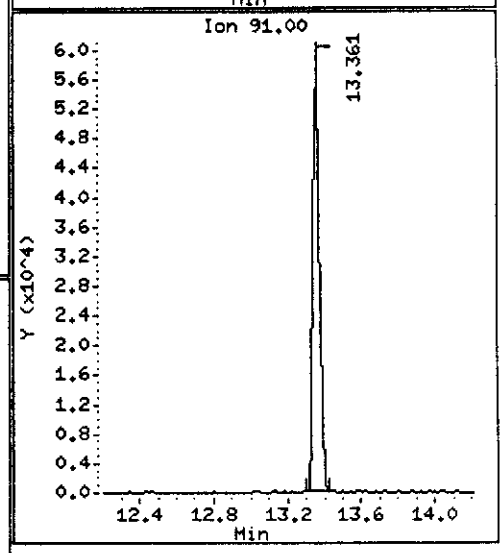












Data File: /chem/X.i/Xsvr.p/xckato15.b/438420.d

Date : 21-NOV-2000 14:39

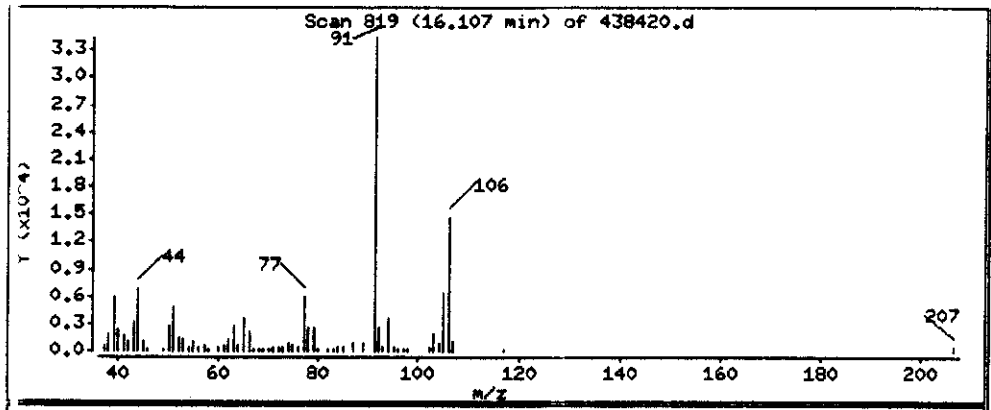
Client ID: CAIA11130006 Instrument: X.i

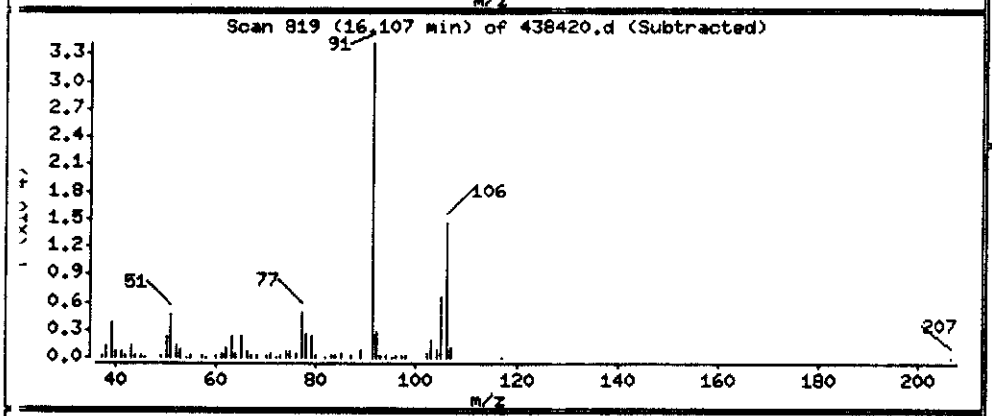
Sample Info: 438420;029ACAIA11130006;80694;1121H7

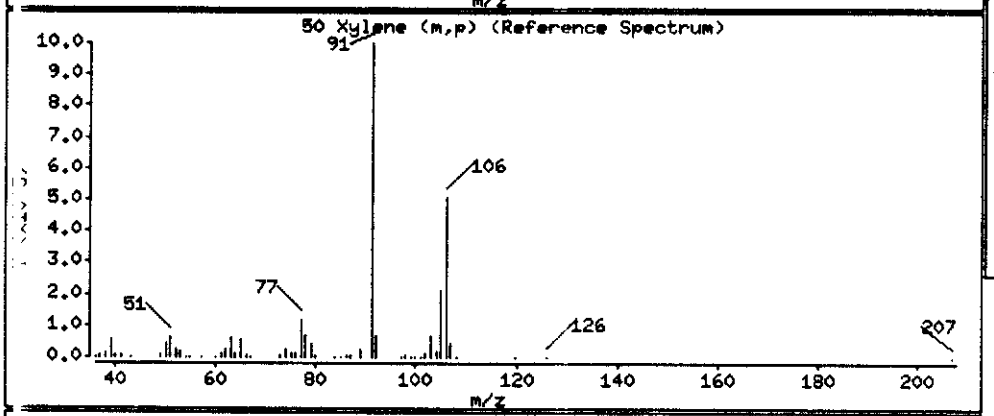
Purge Volume: 200.0 Operator: GHH

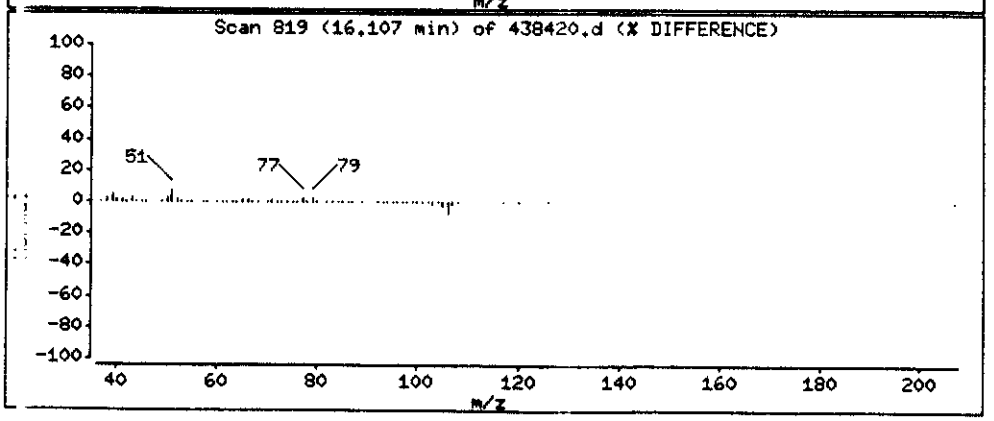
Column phase: DB-1 Column diameter: 0.35

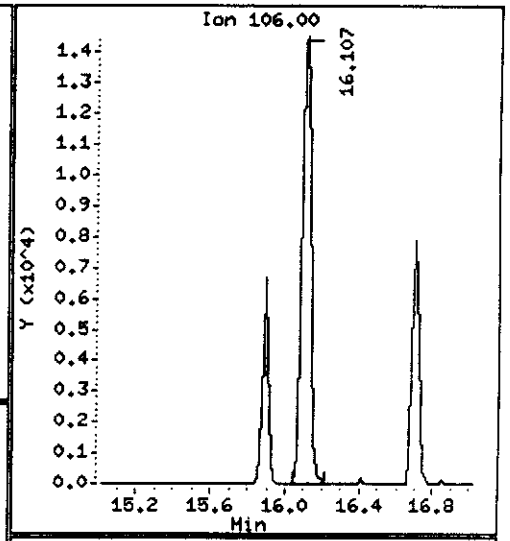
50 Xylene (m,p) Concentration: 0.85 ppbv

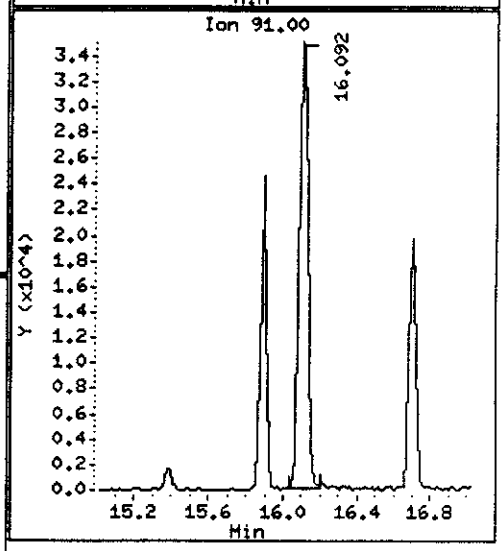












Data File: /chem/X.i/Xsvr.p/xckato15.b/438420.d

Date : 21-NOV-2000 14:39

Client ID: CAIA11130006

Instrument: X.i

Sample Info: 438420;029ACAIA11130006;80694;1121H7

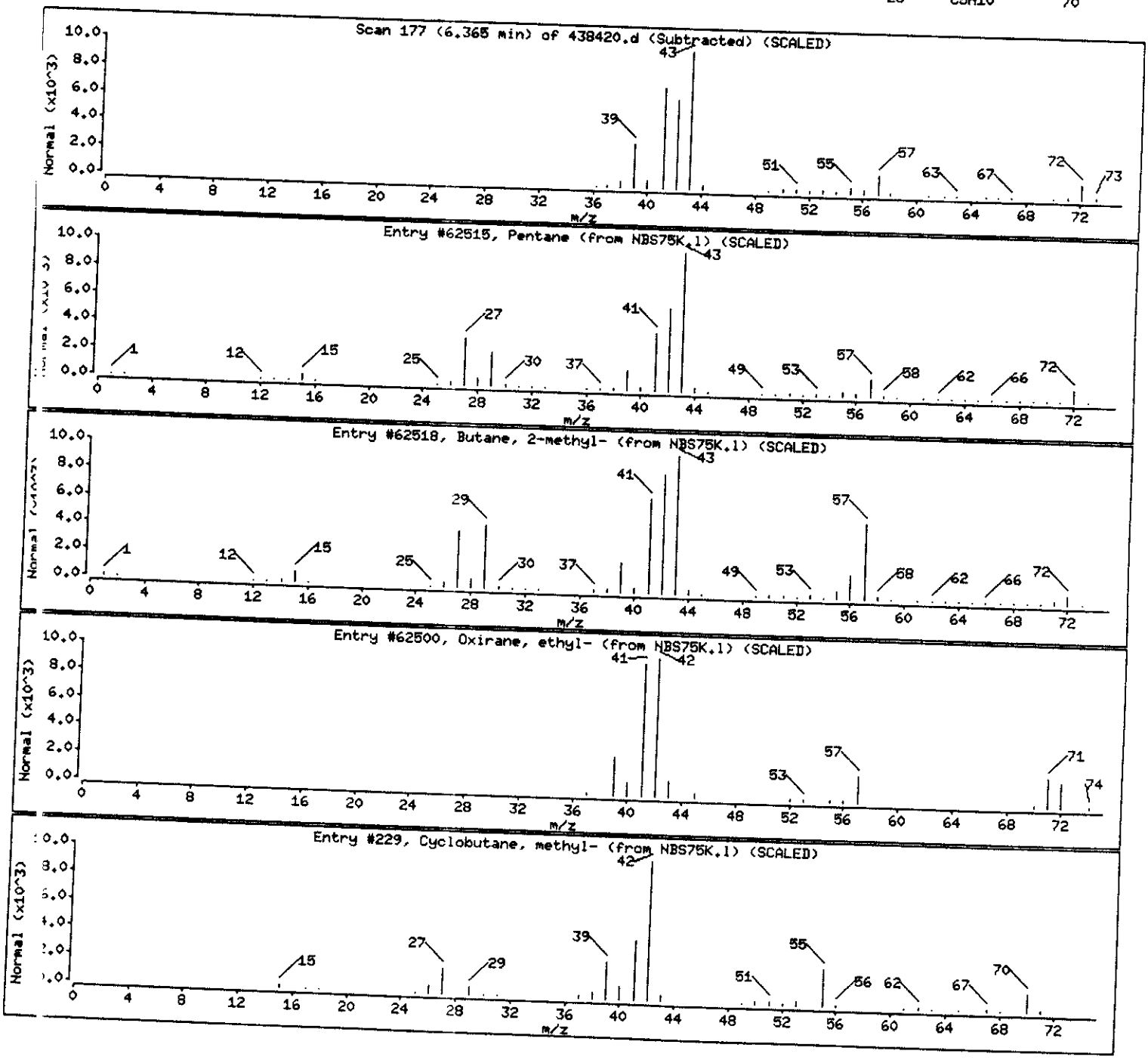
Purge Volume: 200.0

Operator: GHH

Column phase: DB-1

Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown aliphatic compound						
Pentane	109-66-0	NBS75K.1	62515	72	C5H12	72
Butane, 2-methyl-	78-78-4	NBS75K.1	62518	64	C5H12	72
Oxirane, ethyl-	106-88-7	NBS75K.1	62500	53	C4H8O	72
Cyclobutane, methyl-	598-61-8	NBS75K.1	229	25	C5H10	70



Data File: /chem/X.i/Xsvr.p/xckato15.b/438420.d

Date : 21-NOV-2000 14:39

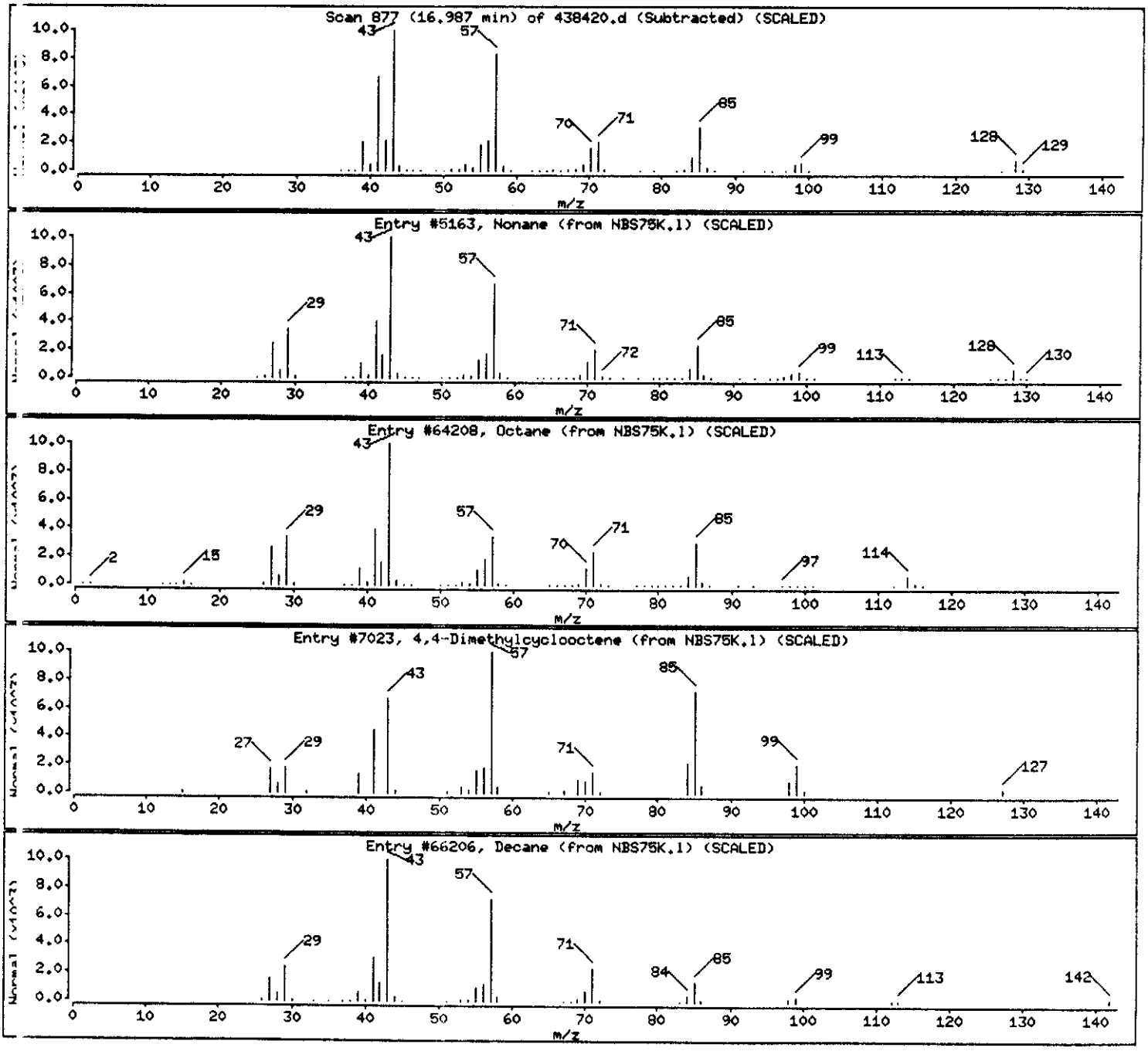
Client ID: CAIA11130006 Instrument: X.i

Sample Info: 438420;029ACAIA11130006;80694:1121H7

Purge Volume: 200.0 Operator: CHH

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown aliphatic compound						
Nonane	111-84-2	NBS75K.l	5163	95	C9H20	128
Octane	111-65-9	NBS75K.l	64208	53	C8H18	114
4,4-Dimethylcyclooctene	0-00-0	NBS75K.l	7023	50	C10H18	138
Decane	124-18-5	NBS75K.l	66206	50	C10H22	142



Data File: /chem/X.i/Xsvr.p/xckato15.b/438420.d

Date : 21-NOV-2000 14:39

Client ID: CAIA11130006

Instrument: X.i

Sample Info: 438420;029ACAIA11130006;80694;1121H7

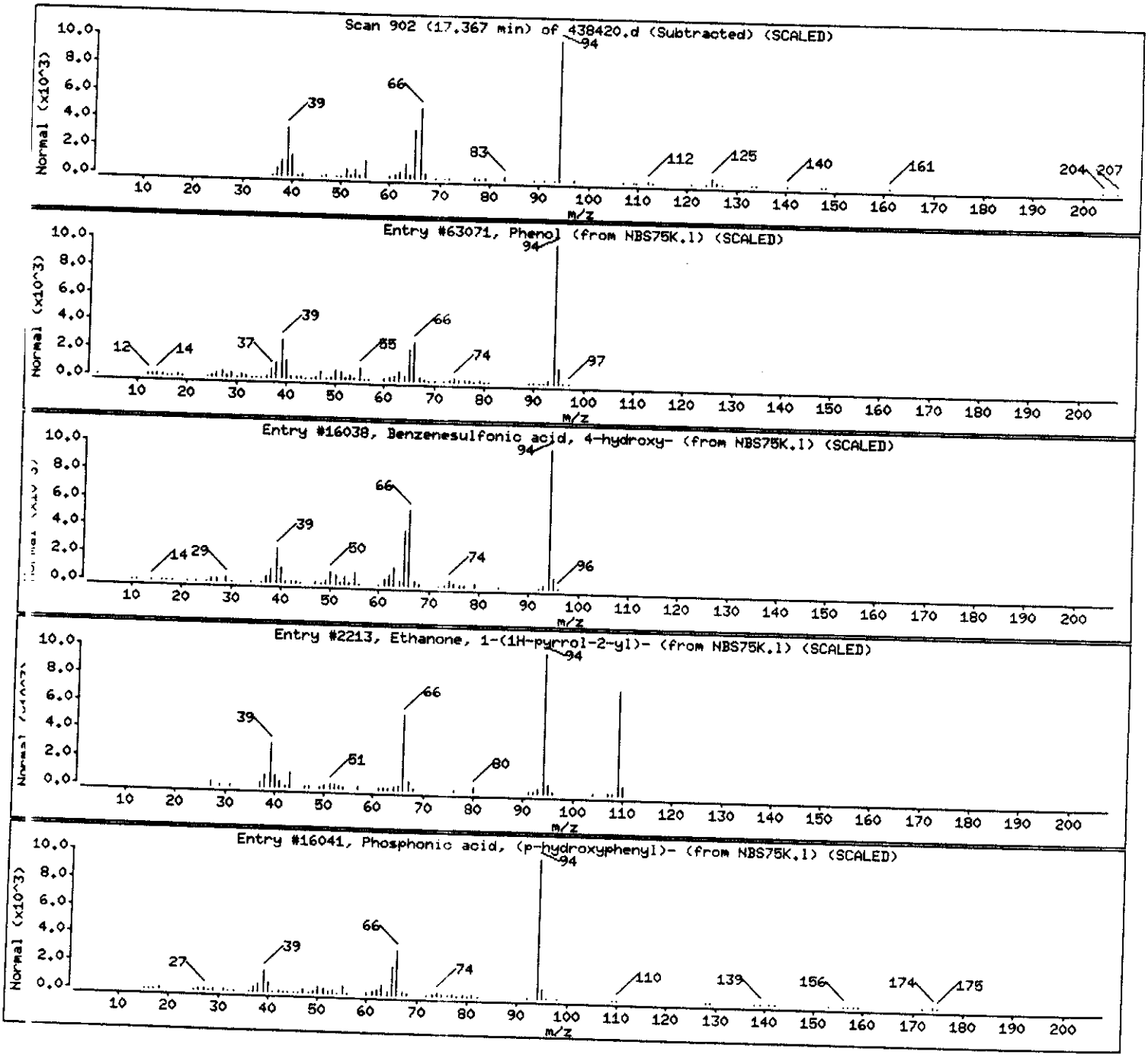
Purge Volume: 200.0

Operator: GHH

Column phase: DB-1

Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Phenol	108-95-2	NBS75K.l	63071	91	C6H6O	94
Benzenesulfonic acid, 4-hydroxy-	98-67-9	NBS75K.l	16038	64	C6H6O4S	174
Ethanone, 1-(1H-pyrrol-2-yl)-	1072-83-9	NBS75K.l	2213	56	C6H7NO	109
Phosphonic acid, (p-hydroxyphenyl)-	33795-18-5	NBS75K.l	16041	42	C6H7O4P	174



Data File: /chem/X.i/Xsvr.p/xckato15.b/438420.d

Date : 21-NOV-2000 14:39

Client ID: CAIA11130006

Instrument: X.i

Sample Info: 438420;029ACAIA11130006;80694;1121H7

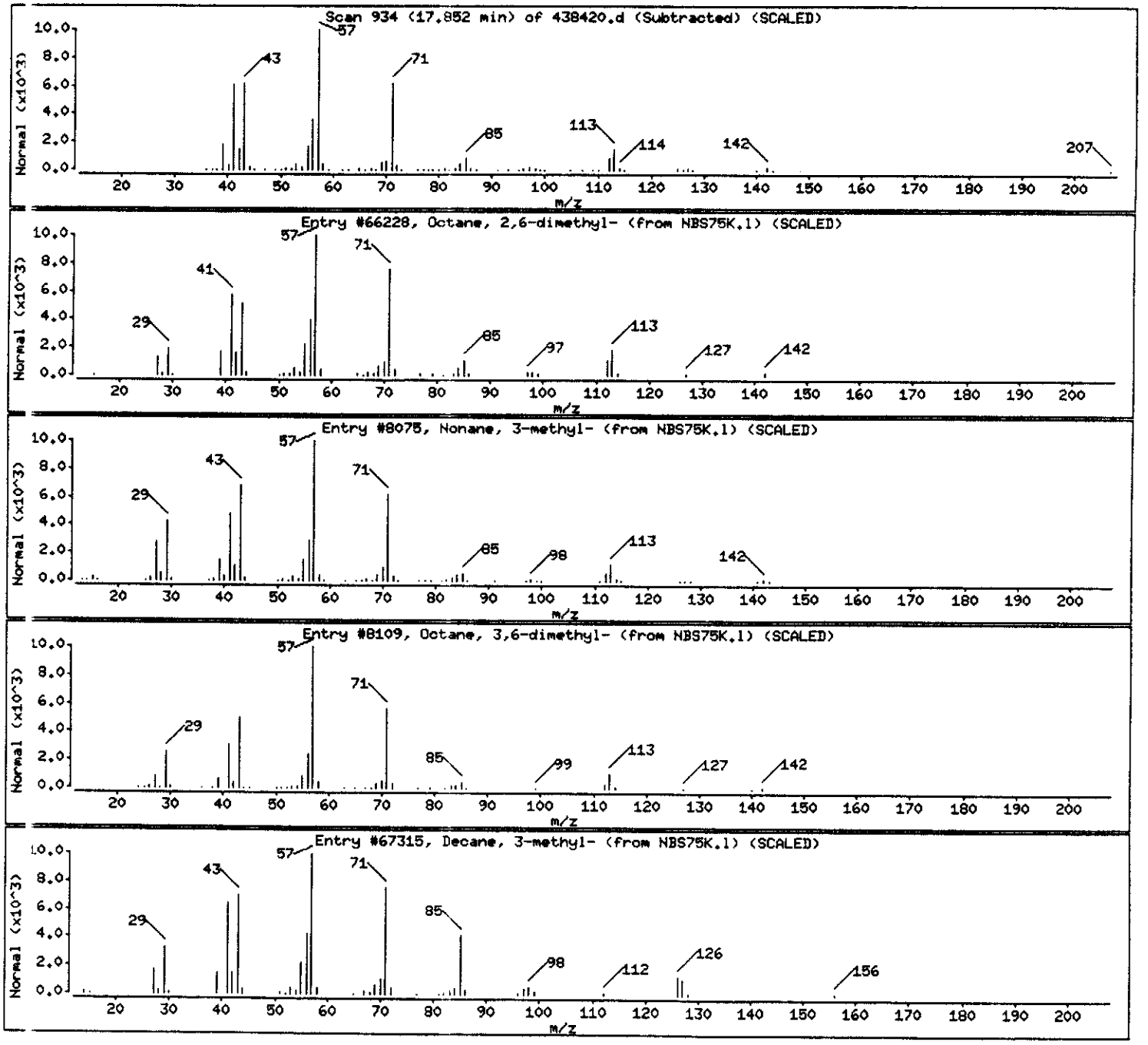
Purge Volume: 200.0

Operator: GHM

Column phase: DB-1

Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown aliphatic compound						
Octane, 2,6-dimethyl-	2051-30-1	NBS75K.l	66228	93	C10H22	142
Nonane, 3-methyl-	5911-04-6	NBS75K.l	8075	91	C10H22	142
Octane, 3,6-dimethyl-	15869-94-0	NBS75K.l	8109	87	C10H22	142
Decane, 3-methyl-	13151-34-3	NBS75K.l	67315	64	C11H24	156



Data File: /chem/X.i/Xsvr.p/xckato15.b/438420.d

Date : 21-NOV-2000 14:39

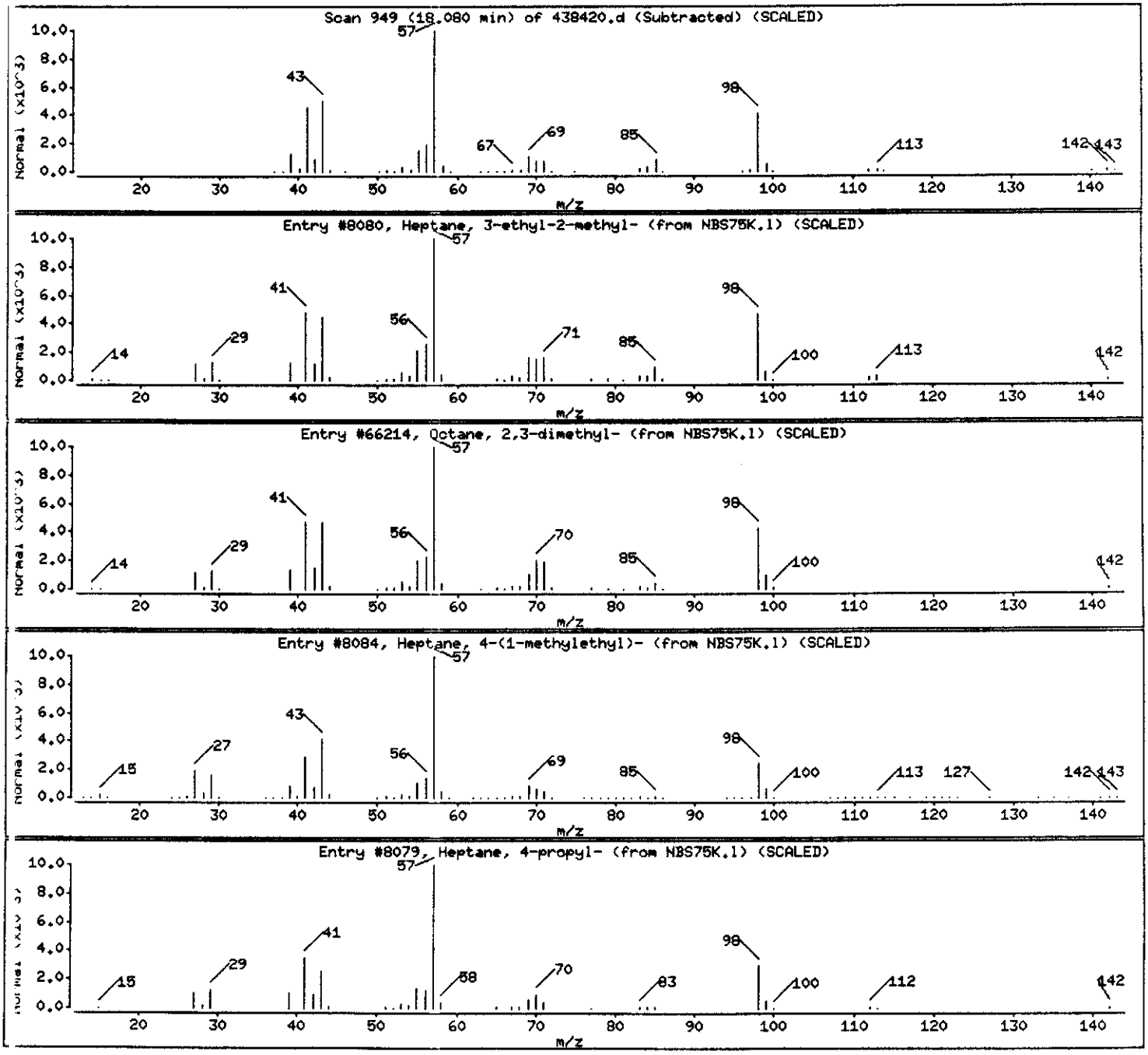
Client ID: CAIA11130006 Instrument: X.i

Sample Info: 438420;029ACAIA11130006;80694;1121H7

Purge Volume: 200.0 Operator: GMH

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown aliphatic compound						
Heptane, 3-ethyl-2-methyl-	14676-29-0	NBS75K.1	8080	90	C10H22	142
Octane, 2,3-dimethyl-	7146-60-3	NBS75K.1	66214	56	C10H22	142
Heptane, 4-(1-methylethyl)-	52896-87-4	NBS75K.1	8084	52	C10H22	142
Heptane, 4-propyl-	3178-29-8	NBS75K.1	8079	49	C10H22	142



Data File: /chem/X.i/Xsvr.p/xokato15.b/438420.d

Date : 21-NOV-2000 14:39

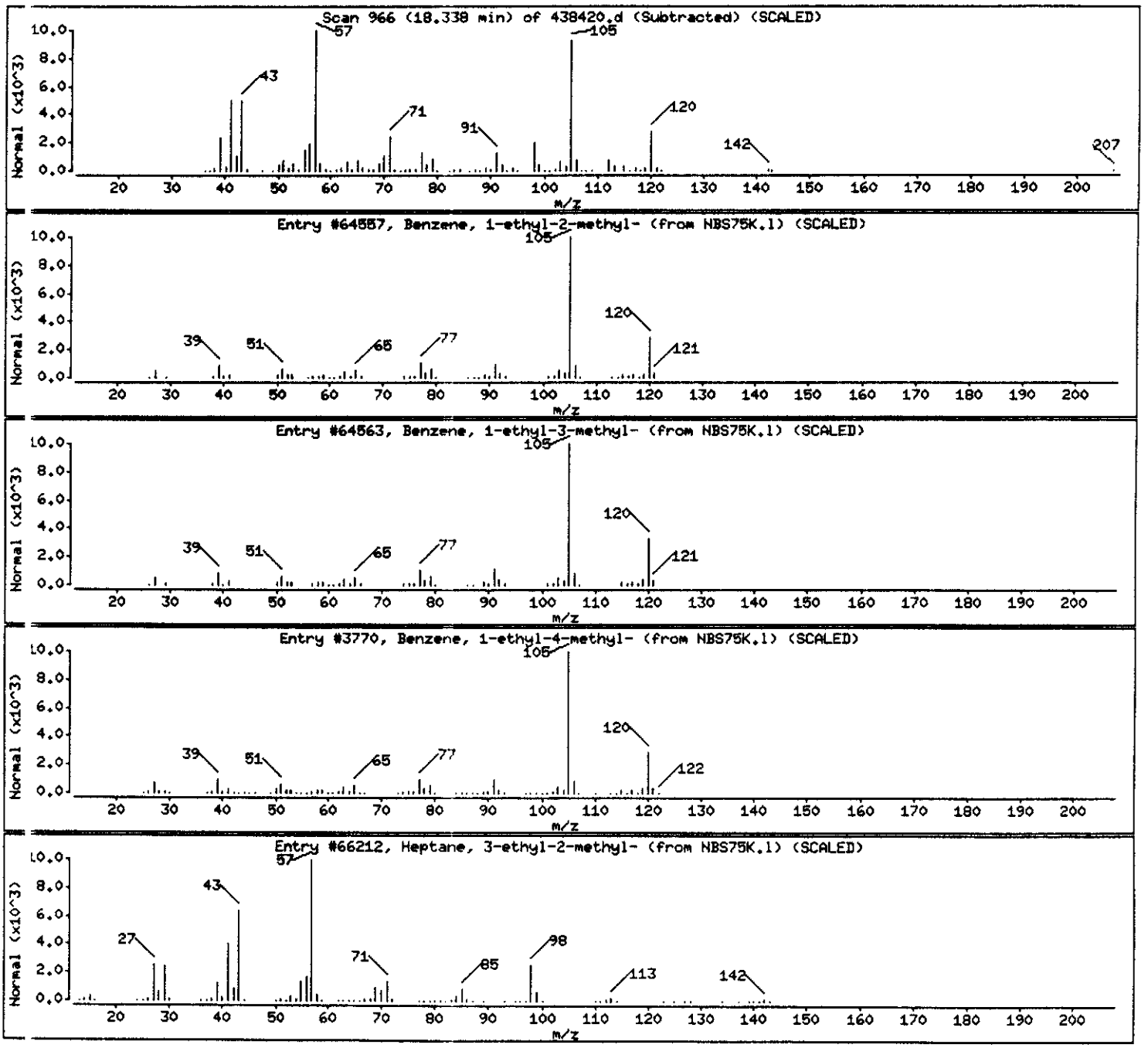
Client ID: CAIA11130006 Instrument: X.i

Sample Info: 438420;029ACAIA11130006;80694;1121H7

Purge Volume: 200.0 Operator: GHH

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown C3-alkylbenzene						
Benzene, 1-ethyl-2-methyl-	611-14-3	NBS75K.l	64557	74	C9H12	120
Benzene, 1-ethyl-3-methyl-	620-14-4	NBS75K.l	64563	74	C9H12	120
Benzene, 1-ethyl-4-methyl-	622-96-8	NBS75K.l	3770	70	C9H12	120
Heptane, 3-ethyl-2-methyl-	14676-29-0	NBS75K.l	66212	45	C10H22	142



Data File: /chem/X.i/Xsvr.p/xokato15.b/438420.d

Date : 21-NOV-2000 14:39

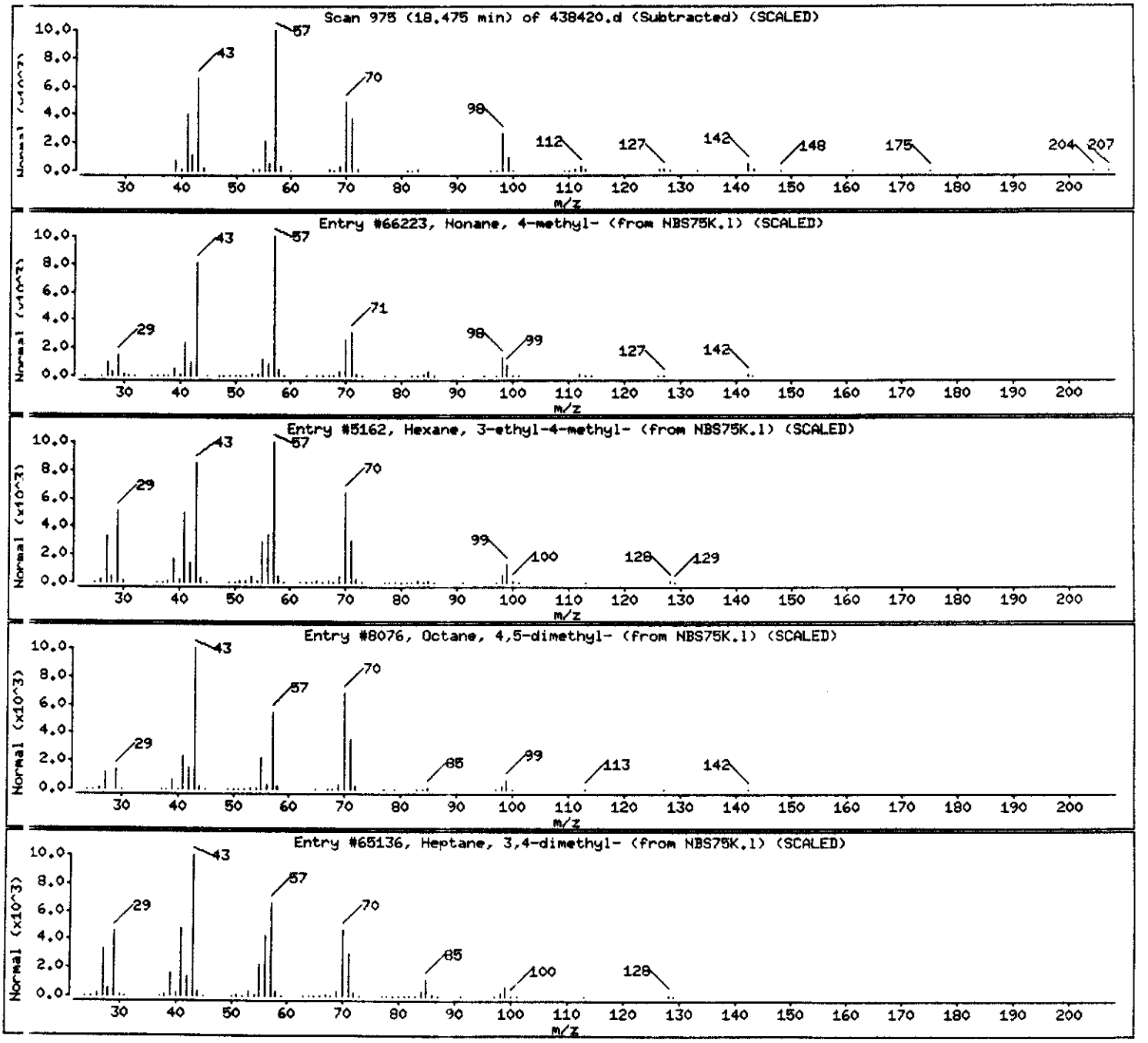
Client ID: CAIA11130006 Instrument: X.i

Sample Info: 438420;029ACAIA11130006;80694;1121H7

Purge Volume: 200.0 Operator: CHH

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown aliphatic compound						
Nonane, 4-methyl-	17301-94-9	NBS75K.l	66223	53	C10H22	142
Hexane, 3-ethyl-4-methyl-	3074-77-9	NBS75K.l	5162	50	C9H20	128
Octane, 4,5-dimethyl-	15869-96-2	NBS75K.l	8076	47	C10H22	142
Heptane, 3,4-dimethyl-	922-28-1	NBS75K.l	65136	40	C9H20	128



Data File: /chem/X.i/Xsvr.p/xckato15.b/438420.d

Date : 21-NOV-2000 14:39

Client ID: CAIA11130006

Instrument: X.i

Sample Info: 438420;029ACAIA11130006;80694;1121H7

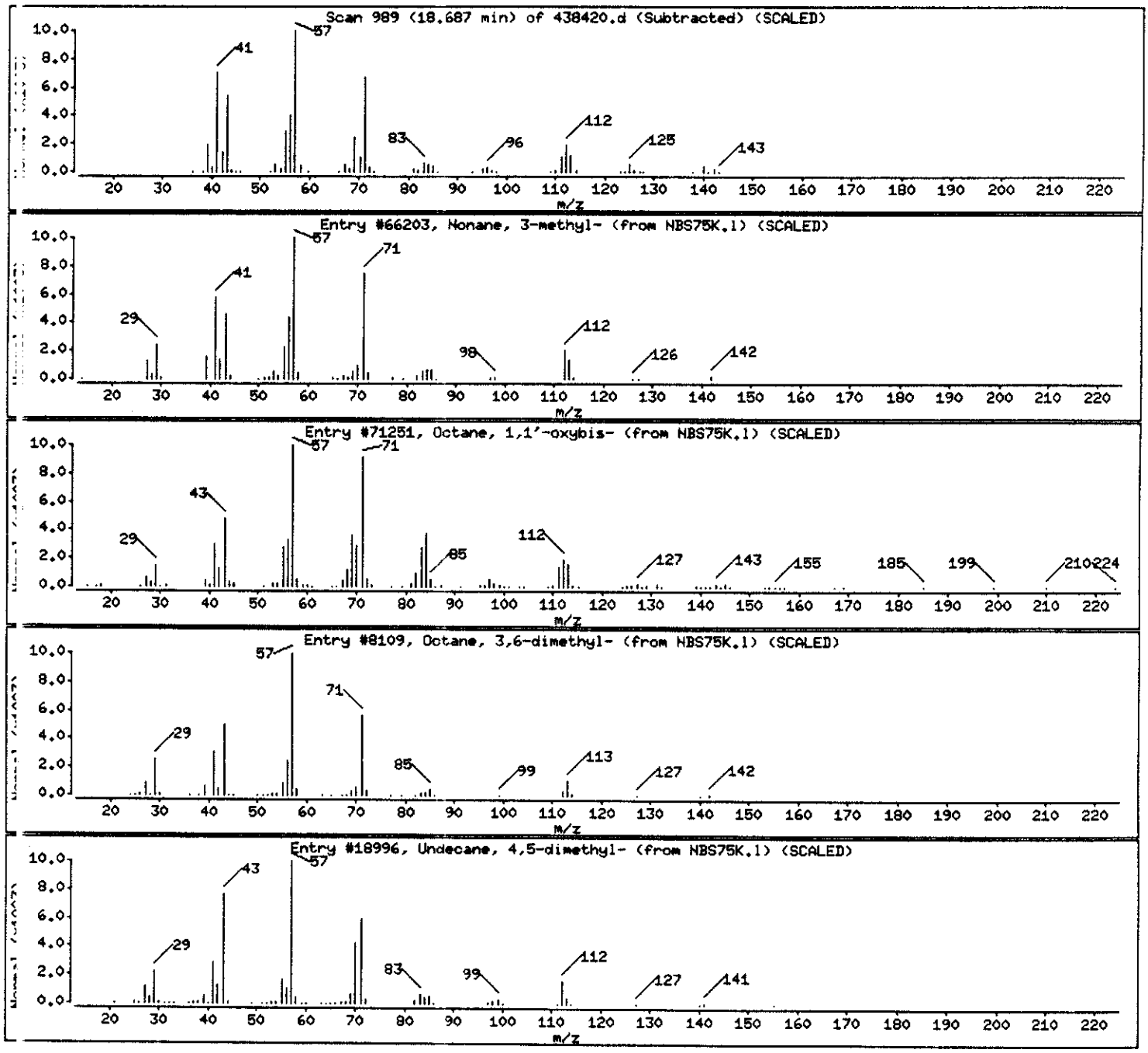
Purge Volume: 200.0

Operator: GMM

Column phase: DB-1

Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown aliphatic compound						
Nonane, 3-methyl-	5911-04-6	NBS75K.l	66203	91	C10H22	142
Octane, 1,1'-oxybis-	629-82-3	NBS75K.l	71251	56	C16H340	242
Octane, 3,6-dimethyl-	15869-94-0	NBS75K.l	8109	47	C10H22	142
Undecane, 4,5-dimethyl-	17312-79-7	NBS75K.l	18996	47	C13H28	184



Data File: /chem/X.i/Xsvr.p/xckato15.b/438420.d

Date : 21-NOV-2000 14:39

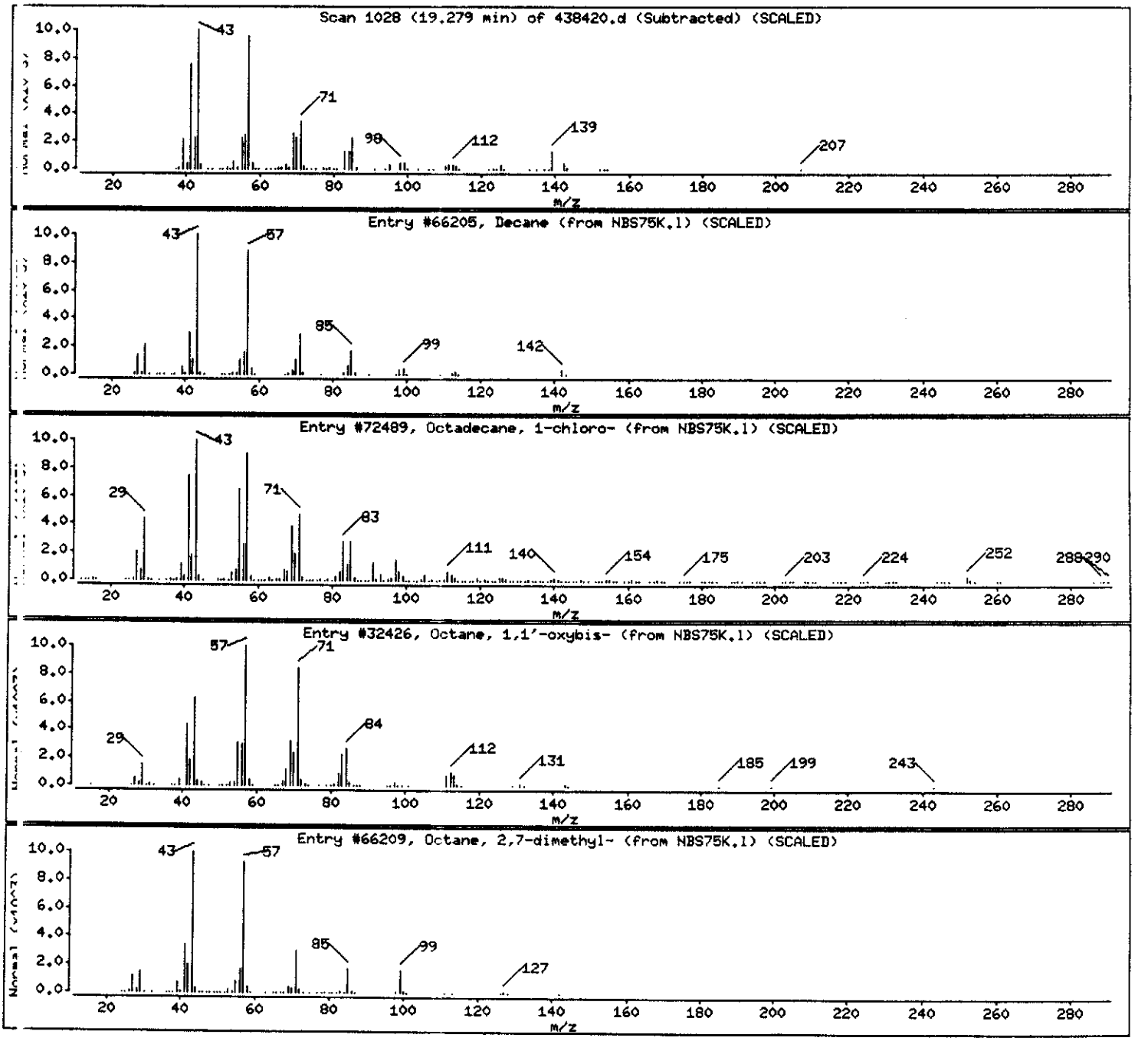
Client ID: CAIA11130006 Instrument: X.i

Sample Info: 438420;029ACAIA11130006;80694;1121H7

Purge Volume: 200.0 Operator: GMH

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown aliphatic compound						
Decane	124-18-5	NBS75K.l	66205	70	C10H22	142
Octadecane, 1-chloro-	3386-33-2	NBS75K.l	72489	64	C18H37Cl	288
Octane, 1,1'-oxybis-	629-82-3	NBS75K.l	32426	53	C16H34O	242
Octane, 2,7-dimethyl-	1072-16-8	NBS75K.l	66209	50	C10H22	142



Data File: /chem/X.i/Xsvr.p/xckato15.b/438420.d

Date : 21-NOV-2000 14:39

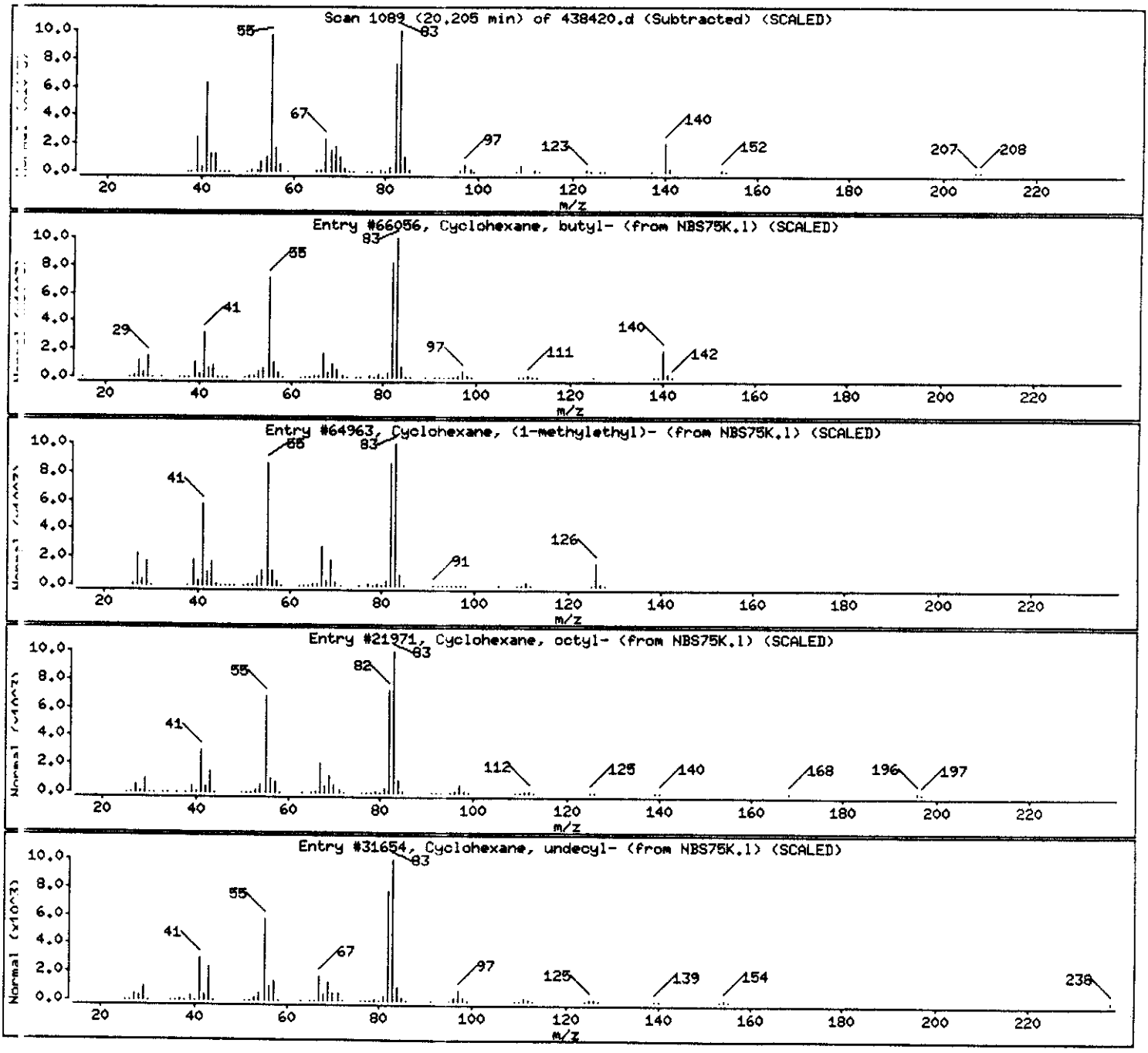
Client ID: CAIA11130006 Instrument: X.i

Sample Info: 438420;029ACAIA11130006;80694;1121H7

Purge Volume: 200.0 Operator: GHM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown alkylcyclohexane						
Cyclohexane, butyl-	1678-93-9	NBS75K.1	66056	94	C10H20	140
Cyclohexane, (1-methylethyl)-	696-29-7	NBS75K.1	64963	80	C9H18	126
Cyclohexane, octyl-	1795-15-9	NBS75K.1	21971	78	C14H28	196
Cyclohexane, undecyl-	54105-66-7	NBS75K.1	31654	78	C17H34	238



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METHOD TO-14A
VOLATILE ORGANIC ANALYSIS

STANDARDS

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80694

Instrument ID: X Calibration Date(s): 11/20/00 11/20/00

Heated Purge: (Y/N) N Calibration Time(s): 0752 1011

GC Column: DB-1 ID: 0.35 (mm)

LAB FILE ID: RRF0.5=CK0005 RRF5 =CK005
RRF10 =CK010 RRF20 =CK020 RRF40 =CK040

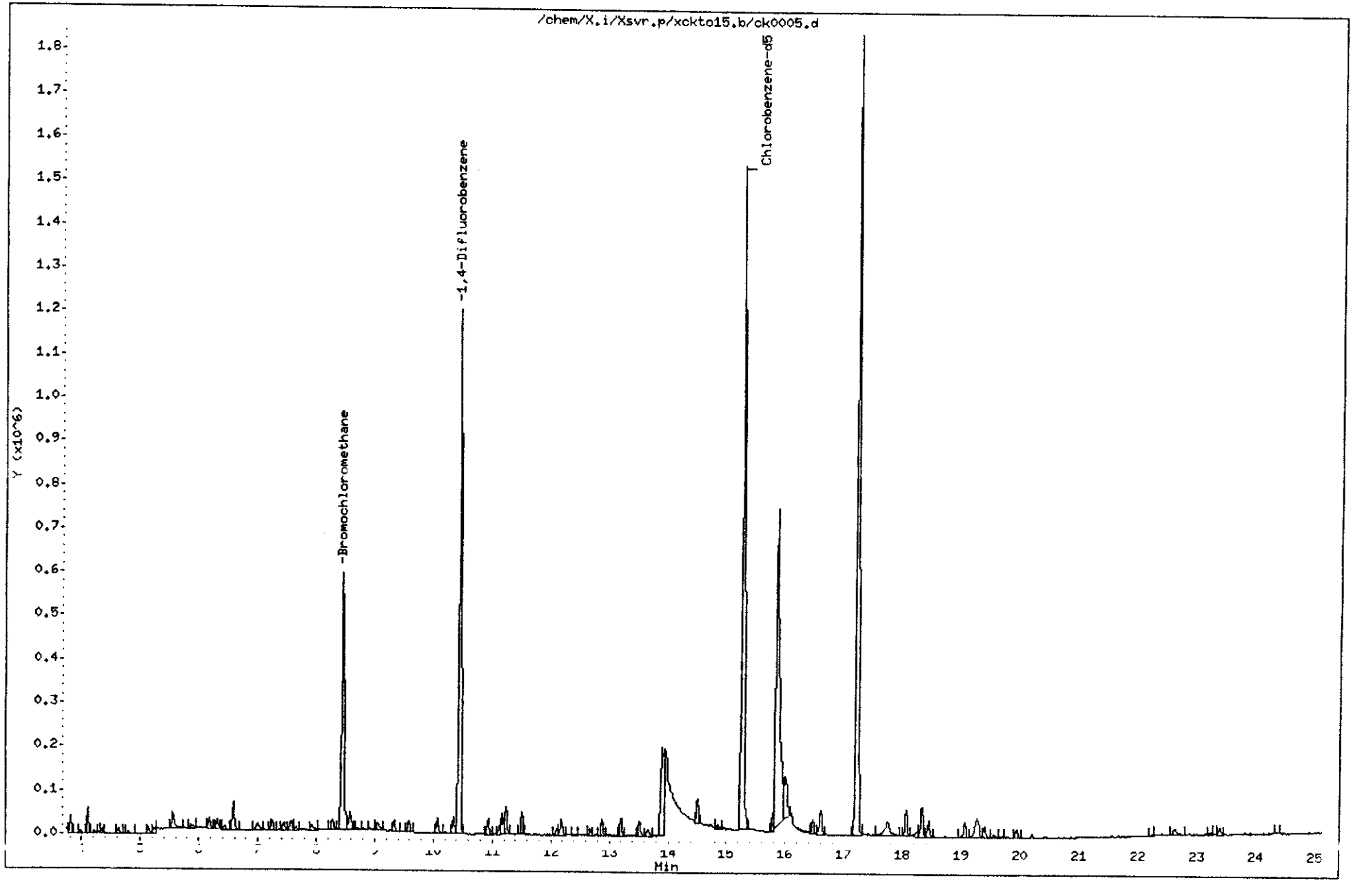
COMPOUND	RRF0.5	RRF5	RRF10	RRF20	RRF40	$\overline{RRF}$	% RSD
Chloromethane	0.889	0.809	0.720	0.673	0.724	0.763	11.3
Vinyl Chloride	1.005	0.989	0.840	0.758	0.715	0.861	15.3
Bromomethane	1.105	0.911	0.785	0.772	0.647	0.844	20.6
Chloroethane	0.539	0.451	0.417	0.378	0.362	0.429	16.4
Trichlorofluoromethane	3.723	3.808	3.192	2.867	2.787	3.275	14.5
Methylene Chloride	1.634	1.404	1.207	1.092	1.072	1.282	18.5
1,1-Dichloroethane *	2.314	2.286	1.885	1.757	1.726	1.994	14.4*
cis-1,2-Dichloroethene	1.863	1.994	1.622	1.423	1.387	1.658	16.1
Chloroform	2.722	2.853	2.379	2.176	2.142	2.454	13.1
1,1,1-Trichloroethane	0.412	0.434	0.428	0.393	0.409	0.415	4.0
Carbon Tetrachloride	0.062	0.077	0.075	0.073	0.060	0.069	11.6
Benzene	0.624	0.618	0.572	0.503	0.516	0.567	9.9
1,2-Dichloroethane	0.484	0.477	0.440	0.368	0.366	0.427	13.4
Trichloroethene	0.334	0.385	0.318	0.271	0.259	0.313	16.2
1,2-Dichloropropane	0.226	0.232	0.202	0.187	0.187	0.207	10.2
cis-1,3-Dichloropropene	0.177	0.204	0.207	0.215	0.250	0.211	12.5
Toluene	0.423	0.463	0.404	0.353	0.343	0.397	12.6
trans-1,3-Dichloropropene	0.181	0.155	0.163	0.173	0.214	0.177	12.8
1,1,2-Trichloroethane	0.211	0.236	0.194	0.181	0.175	0.199	12.5
Tetrachloroethene	0.363	0.423	0.364	0.308	0.292	0.350	14.8
Chlorobenzene *	0.488	0.607	0.552	0.488	0.481	0.523	10.5*
Ethylbenzene	0.869	1.087	0.973	0.870	0.854	0.931	10.7
Xylene (m,p)	0.291	0.355	0.332	0.295	0.291	0.313	9.3
Styrene	0.328	0.449	0.454	0.411	0.421	0.413	12.3
Xylene (o)	0.247	0.350	0.338	0.281	0.285	0.300	14.2
1,1,2,2-Tetrachloroethane	0.362	0.488	0.468	0.434	0.450	0.440	10.9
1,3-Dichlorobenzene	0.303	0.546	0.555	0.532	0.478	0.483	21.7
1,4-Dichlorobenzene	0.284	0.511	0.530	0.511	0.466	0.460	22.0
1,2-Dichlorobenzene	0.222	0.502	0.520	0.501	0.445	0.438	28.3

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

Data File: /chem/X.i/Xsvr.p/xckto15.b/ck0005.d
Date : 20-NOV-2000 07:52
Client ID: ASTD0005
Sample Info: ASTD0005
Purge Volume: 200.0
Column phase: DB-1

Instrument: X.i

Operator: GHM
Column diameter: 0.35



0060

STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/X.i/Xsvr.p/xckto15.b/ck0005.d
Lab Smp Id: ASTD0005 Client Smp ID: ASTD0005
Inj Date : 20-NOV-2000 07:52
Operator : GMM Inst ID: X.i
Smp Info : ASTD0005
Misc Info :
Comment :
Method : /chem/X.i/Xsvr.p/xckto15.b/ato15.m
Meth Date : 28-Nov-2000 12:06 bes Quant Type: ISTD
Cal Date : 20-NOV-2000 07:52 Cal File: ck0005.d
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
1 Dichlorodifluoromethane	85	3.814	3.828	(0.452)	42232	0.50000	0.50
2 Chloromethane	50	3.987	3.986	(0.472)	8550	0.50000	0.50
3 Dichlorotetrafluoroethane	85	4.102	4.116	(0.486)	36257	0.50000	0.50
4 Vinyl Chloride	62	4.203	4.217	(0.498)	9667	0.50000	0.50
5 1,3-Butadiene	54	4.347	4.361	(0.515)	6894	0.50000	0.50
6 Bromomethane	94	4.621	4.649	(0.547)	10627	0.50000	0.50
7 Chloroethane	64	4.794	4.822	(0.568)	5184	0.50000	0.50
8 Bromoethene	106	5.140	5.168	(0.609)	10995	0.50000	0.50
9 Acetone	43	5.575	5.529	(0.660)	29444	0.50000	0.50
0 Trichlorofluoromethane	101	5.545	5.574	(0.657)	35801	0.50000	0.50
1 Isopropyl Alcohol	45	5.863	5.832	(0.694)	18373	0.50000	0.50
2 1,1-Dichloroethene	96	6.182	6.197	(0.732)	9882	0.50000	0.50
3 Methylene Chloride	49	6.303	6.333	(0.747)	15710	0.50000	0.50
4 3-Chloropropene	41	6.425	6.455	(0.761)	6998	0.50000	0.50

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
	15 Carbon Disulfide	76	6.577	6.591	(0.779)	26004	0.50000	0.50
	16 Freon TF	101	6.577	6.606	(0.779)	24314	0.50000	0.50
	17 trans-1,2-Dichloroethene	61	7.229	7.259	(0.856)	18338	0.50000	0.50
	18 1,1-Dichloroethane	63	7.441	7.471	(0.881)	22248	0.50000	0.50
	19 Methyl tert-Butyl Ether	73	7.563	7.578	(0.896)	22251	0.50000	0.50
	20 Methyl Ethyl Ketone	43	7.927	7.927	(0.939)	26482	0.50000	0.50
	21 cis-1,2-Dichloroethene	61	8.276	8.306	(0.980)	17910	0.50000	0.50
*	22 Bromochloromethane	128	8.443	8.473	(1.000)	192299	10.0000	
	23 n-Hexane	57	8.504	8.534	(1.007)	16492	0.50000	0.50
	24 Chloroform	83	8.580	8.610	(1.016)	26175	0.50000	0.50
	25 Tetrahydrofuran	42	9.050	9.050	(0.866)	13060	0.50000	0.50(M)
	26 1,2-Dichloroethane	62	9.338	9.353	(0.894)	25217	0.50000	0.50
	27 1,1,1-Trichloroethane	97	9.596	9.611	(0.919)	21444	0.50000	0.50
	28 Benzene	78	10.067	10.097	(0.964)	32504	0.50000	0.50
	29 Carbon Tetrachloride	117	10.203	10.233	(0.977)	3219	0.50000	0.50
	30 Cyclohexane	56	10.340	10.370	(0.990)	17355	0.50000	0.50
*	31 1,4-Difluorobenzene	114	10.446	10.461	(1.000)	1041662	10.0000	
	32 1,2-Dichloropropane	63	10.932	10.947	(1.046)	11747	0.50000	0.50(M)
	33 Bromodichloromethane	83	11.129	11.144	(1.065)	16760	0.50000	0.50
	34 Trichloroethene	95	11.175	11.189	(1.070)	17418	0.50000	0.50
	35 1,4-Dioxane	88	11.235	11.220	(1.076)	6477	0.50000	0.50(M)
	36 2,2,4-Trimethylpentane	57	11.235	11.250	(1.076)	59522	0.50000	0.50
	37 n-Heptane	43	11.509	11.523	(1.102)	24114	0.50000	0.50
	38 cis-1,3-Dichloropropene	75	12.100	12.115	(1.158)	9198	0.50000	0.50
	39 Methyl Isobutyl Ketone	43	12.176	12.176	(1.166)	35483	0.50000	0.50
	40 trans-1,3-Dichloropropene	75	12.677	12.692	(1.214)	9409	0.50000	0.50
	41 1,1,2-Trichloroethane	83	12.874	12.889	(0.843)	11234	0.50000	0.50
	42 Toluene	92	13.208	13.208	(0.865)	22563	0.50000	0.50
	43 Methyl Butyl Ketone	43	13.512	13.511	(0.885)	35960	0.50000	0.50
	44 Dibromochloromethane	129	13.679	13.678	(0.896)	11286	0.50000	0.50
	45 1,2-Dibromoethane	107	13.967	13.982	(0.915)	40479	0.50000	0.50
	46 Tetrachloroethene	166	14.513	14.513	(0.950)	19369	0.50000	0.50
*	47 Chlorobenzene-d5	117	15.272	15.272	(1.000)	1065873	10.0000	
	48 Chlorobenzene	112	15.333	15.332	(1.004)	26008	0.50000	0.50
	49 Ethylbenzene	91	15.788	15.803	(1.034)	46303	0.50000	0.50
	50 Xylene (m,p)	106	16.016	16.015	(1.049)	31034	1.00000	1.0
	51 Bromoform	173	16.107	16.106	(1.055)	12730	0.50000	0.50
	52 Styrene	104	16.471	16.470	(1.079)	17466	0.50000	0.50
	53 1,1,2,2-Tetrachloroethane	83	16.592	16.592	(1.086)	19316	0.50000	0.50
	54 Xylene (o)	106	16.607	16.622	(1.087)	13184	0.50000	0.50(Q)
	55 2-Chlorotoluene	91	18.064	18.064	(1.183)	51032	0.50000	0.50
	56 4-Ethyltoluene	105	18.337	18.337	(1.201)	62359	0.50000	0.50
	57 1,3,5-Trimethylbenzene	105	18.444	18.443	(1.208)	28386	0.50000	0.50
	58 1,2,4-Trimethylbenzene	105	19.066	19.065	(1.248)	26349	0.50000	0.50
	59 1,3-Dichlorobenzene	146	19.294	19.293	(1.263)	16166	0.50000	0.50
	60 1,4-Dichlorobenzene	146	19.400	19.399	(1.270)	15162	0.50000	0.50
	61 1,2-Dichlorobenzene	146	19.946	19.946	(1.306)	11844	0.50000	0.50(H)

Com ounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
2 1,2,4-Trichlorobenzene	180	22.617	22.617	(1.481)	2623	0.50000	0.50
3 Hexachlorobutadiene	225	23.406	23.406	(1.533)	4169	0.50000	0.50

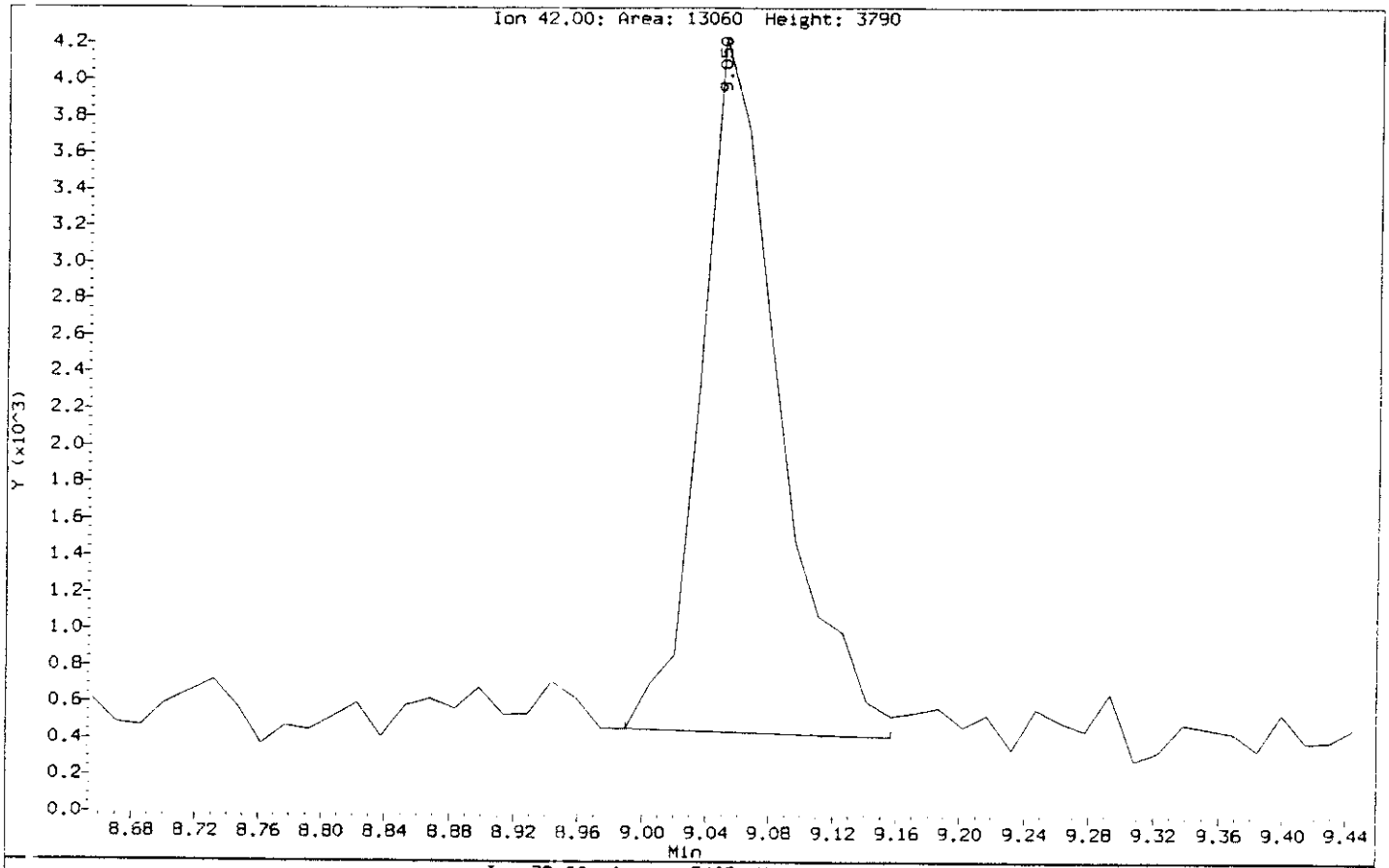
QC Flag Legend

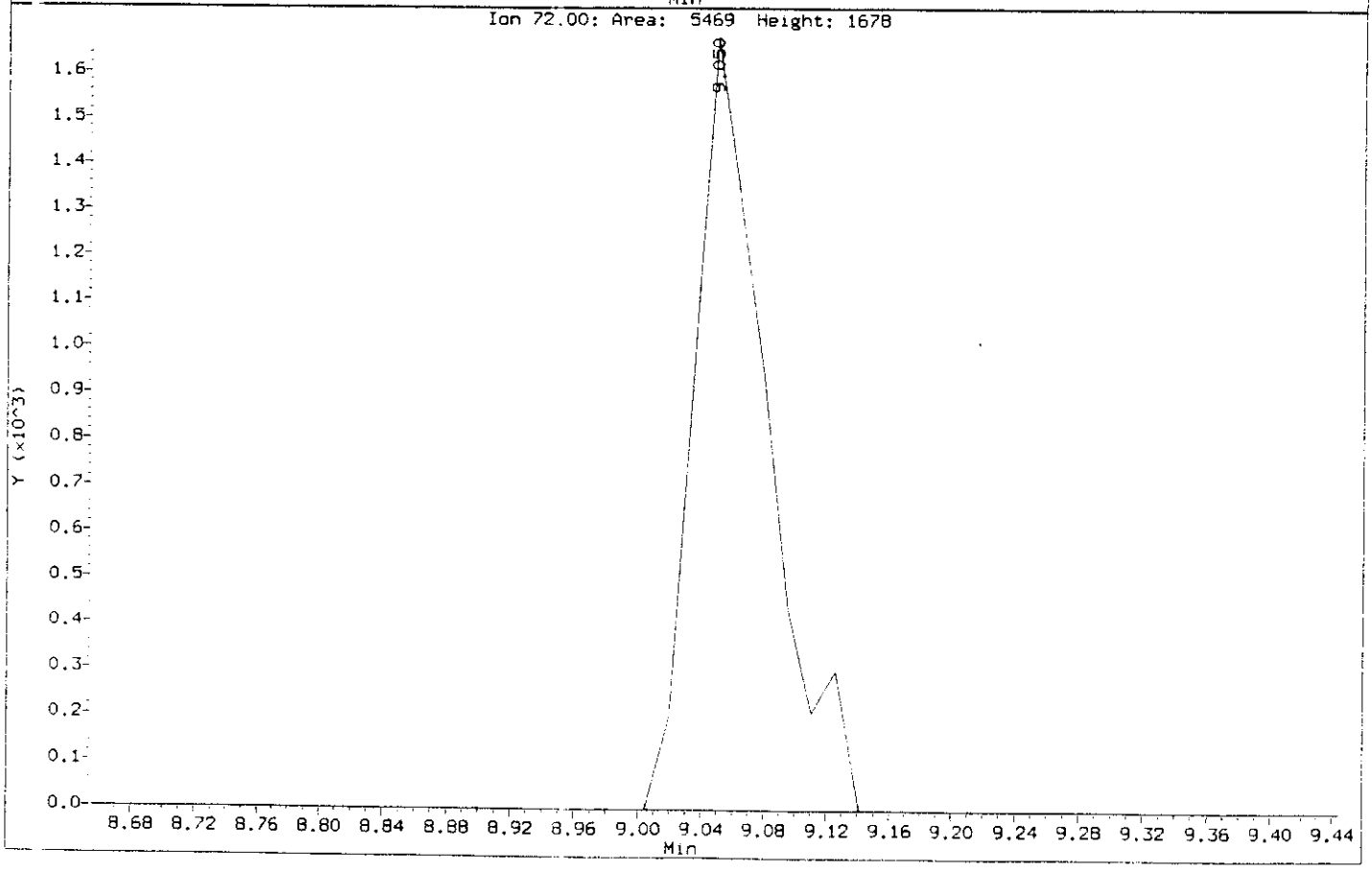
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

11/28/00

Data File: /chem/X.i/Xsvr.p/xckto15.b/ck0005.d
Injection Date: 20-NOV-2000 07:52
Instrument: X.i
Client Sample ID: ASTD0005

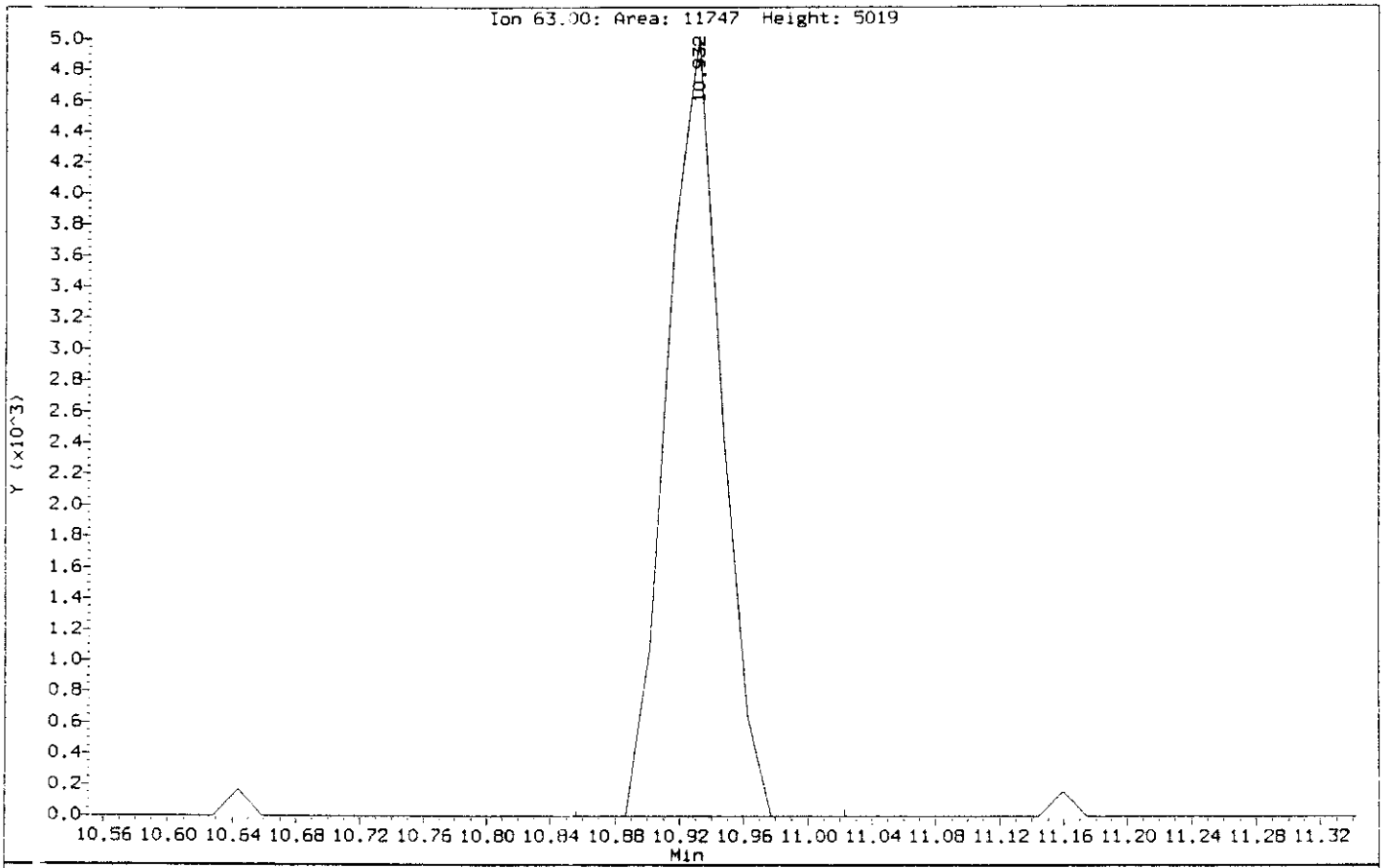
Compound: Tetrahydrofuran
CAS Number: 109-99-9

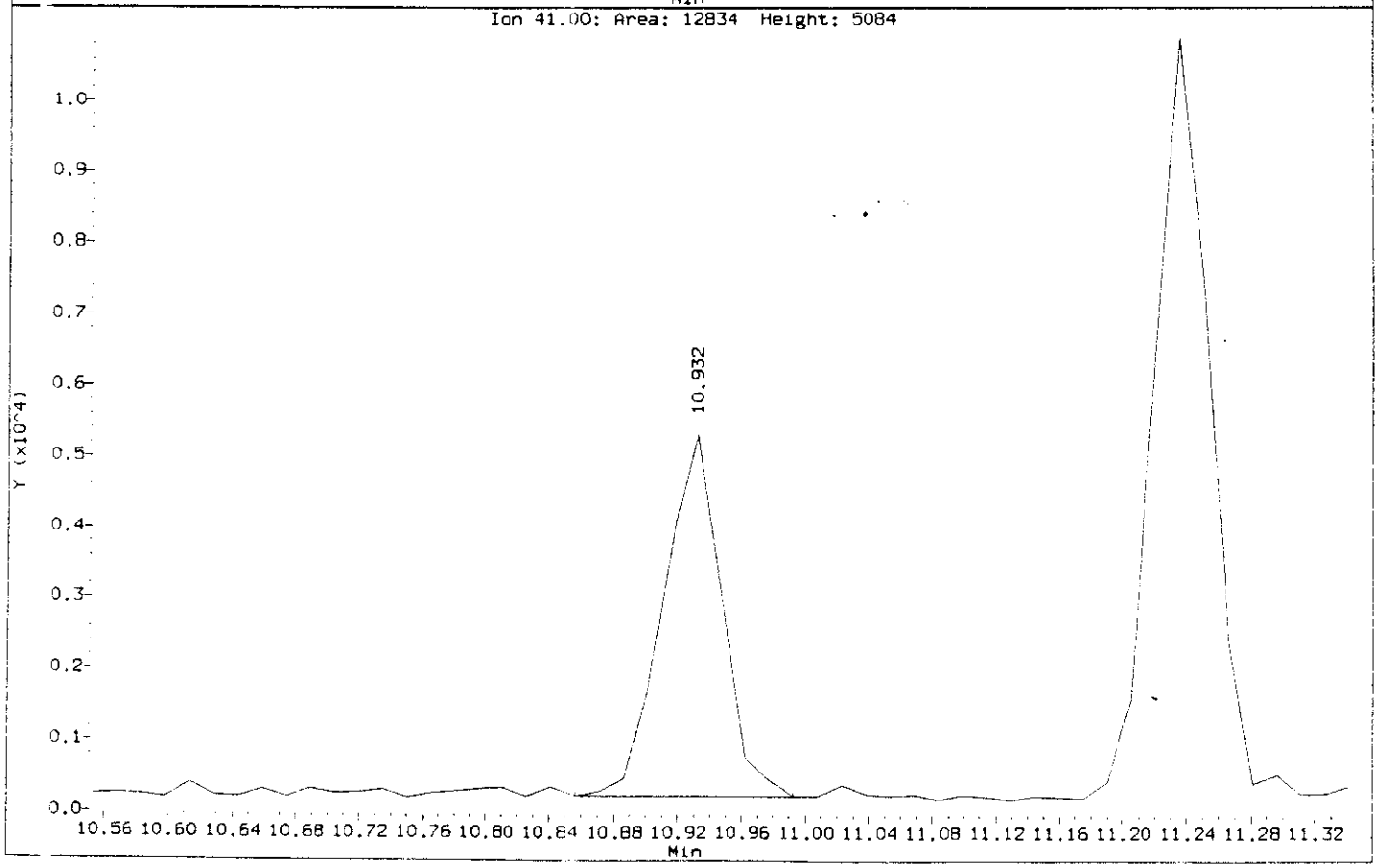




Da a File: /chem/X.i/Xsvr.p/xckto15.b/ck0005.d
In ection Date: 20-NOV-2000 07:52
In trument: X.i
Cl ent Sample ID: ASTD0005

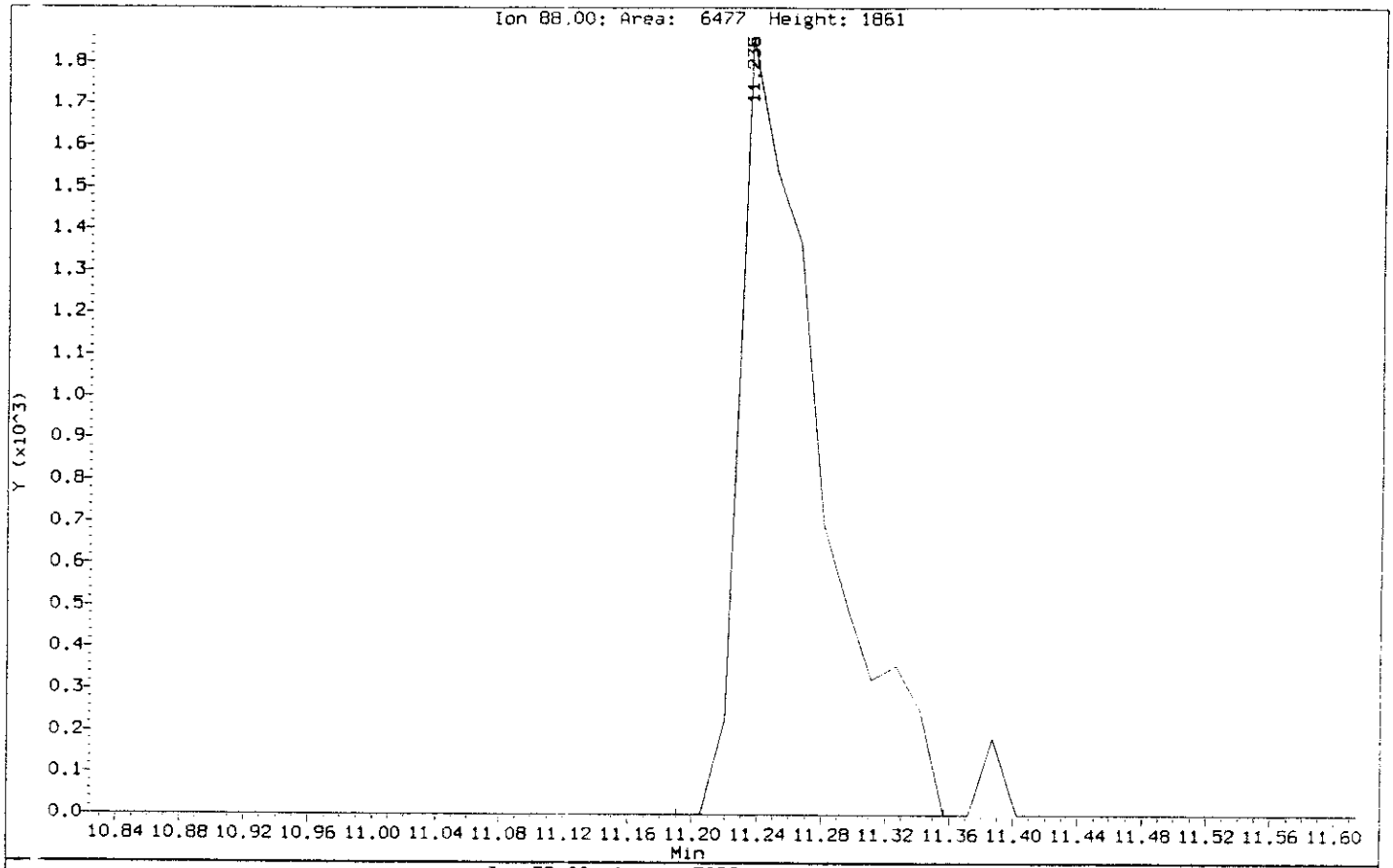
Co pound: 1,2-Dichloropropane
CA Number: 78-87-5

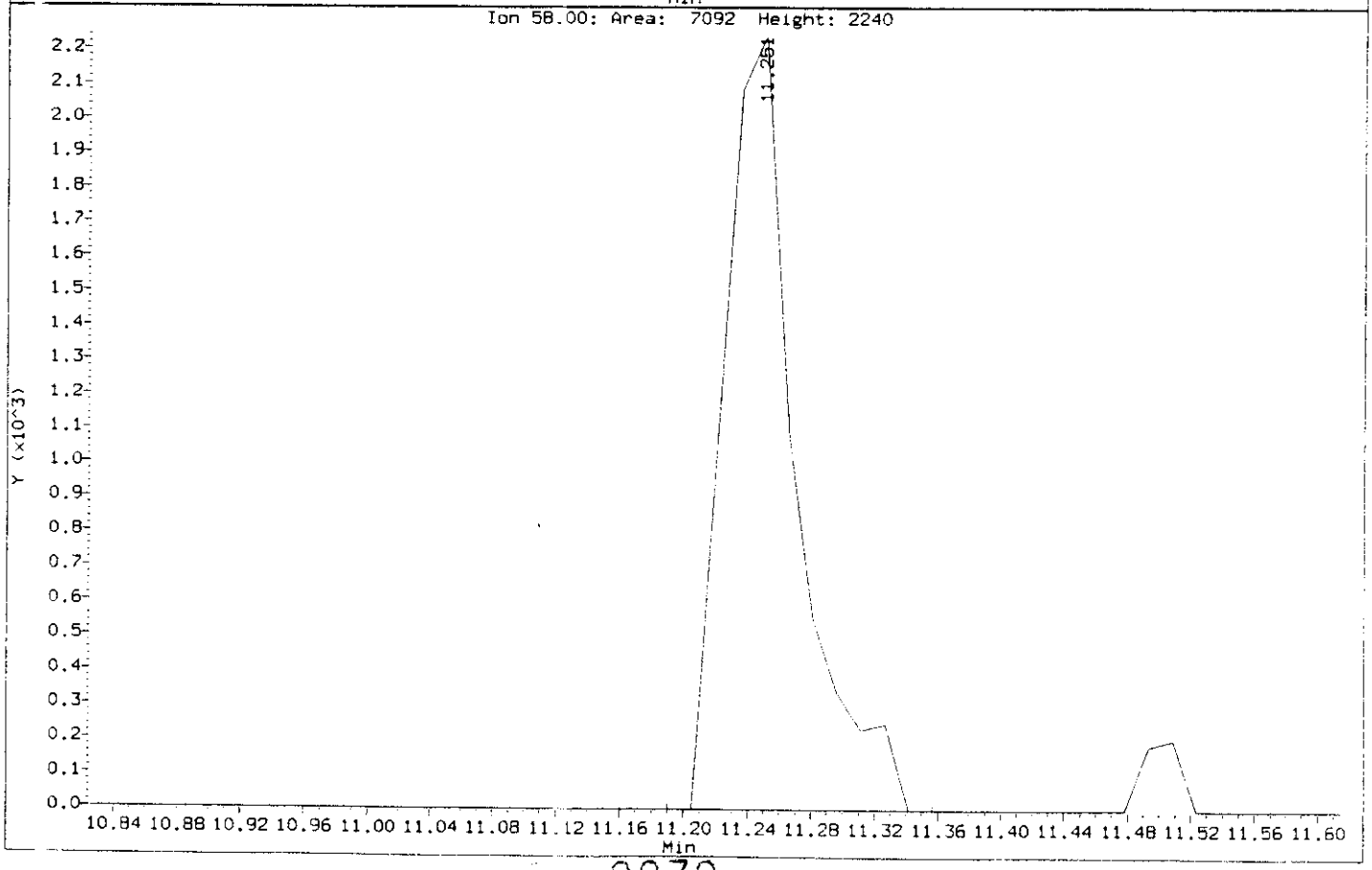




Data File: /chem/X.i/Xsvr.p/xckto15.b/ck0005.d
Injection Date: 20-NOV-2000 07:52
Instrument: X.i
Client Sample ID: ASTD0005

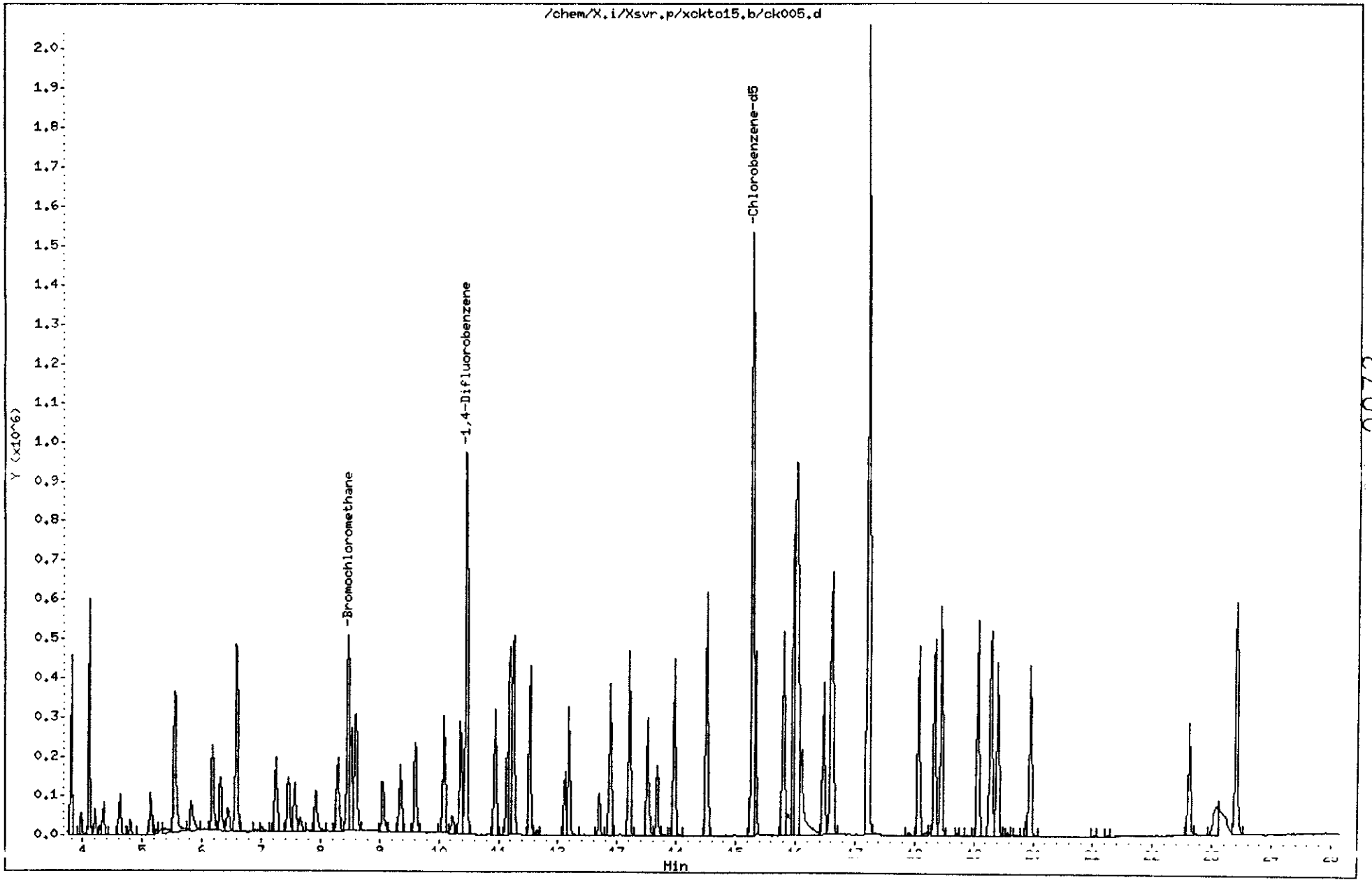
Compound: 1,4-Dioxane
CAS Number: 123-91-1





Data File: /chem/X.i/Xsvr.p/xckto15.b/ck005.d
Date : 20-NOV-2000 08:26
Client ID: ASTD005
Sample Info: ASTD005
Purge Volume: 200.0
Column phase: DB-1

Instrument: X.i
Operator: GMH
Column diameter: 0.35



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AIR TOXICS QUANTITATION REPORT

Data file : /chem/X.i/Xsvr.p/xckto15.b/ck005.d
Lab Smp Id: ASTD005 Client Smp ID: ASTD005
Inj Date : 20-NOV-2000 08:26
Operator : GMM Inst ID: X.i
Smp Info : ASTD005
Misc Info :
Comment :
Method : /chem/X.i/Xsvr.p/xckto15.b/ato15.m
Meth Date : 28-Nov-2000 12:06 bes Quant Type: ISTD
Cal Date : 20-NOV-2000 08:26 Cal File: ck005.d
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

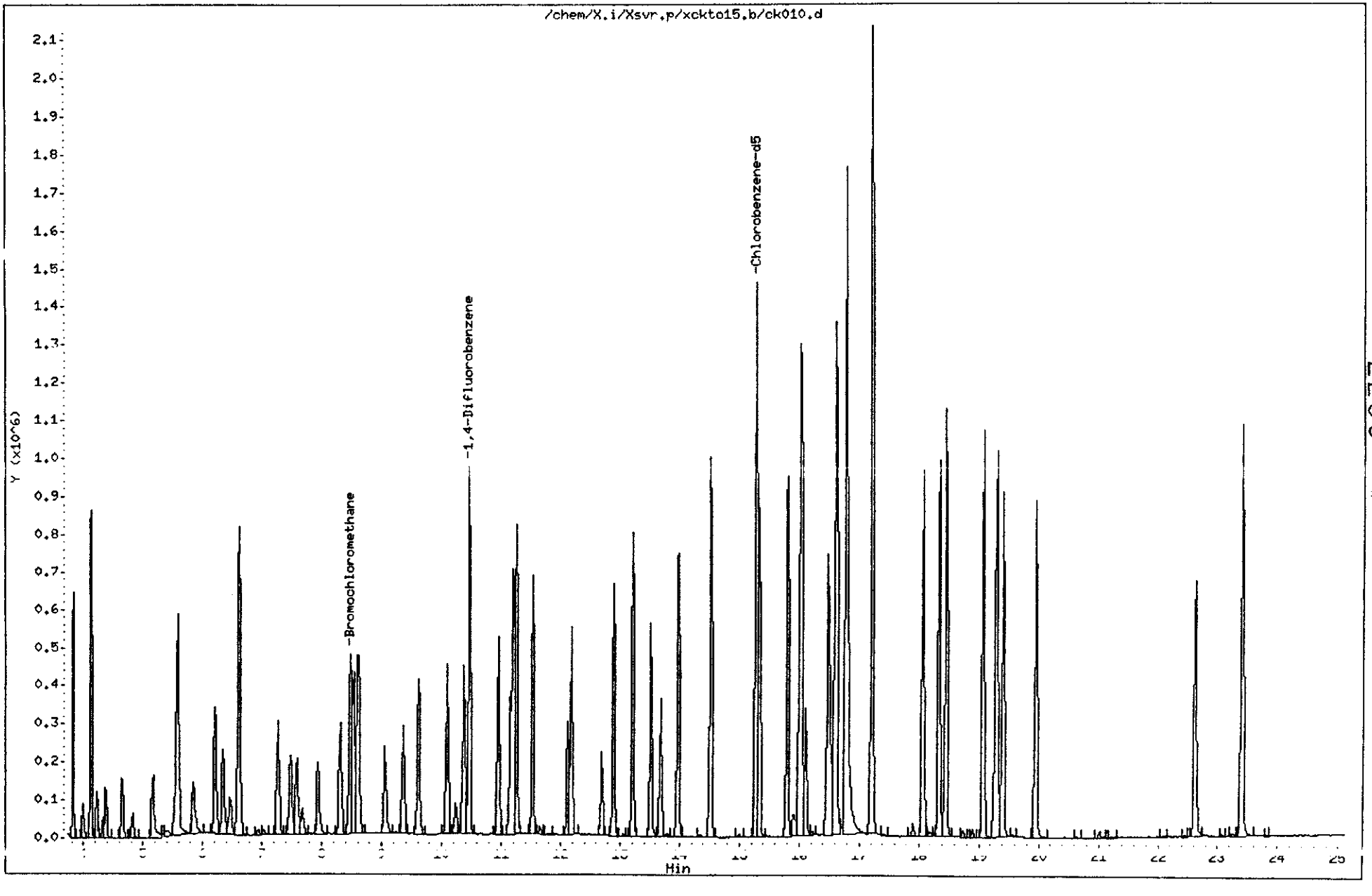
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
1 Dichlorodifluoromethane	85	3.800	3.828	(0.449)	404792	5.00000	5.1
2 Chloromethane	50	3.973	3.986	(0.470)	71161	5.00000	4.8
3 Dichlorotetrafluoroethane	85	4.103	4.116	(0.485)	344766	5.00000	5.1
4 Vinyl Chloride	62	4.204	4.217	(0.497)	86987	5.00000	5.0
5 1,3-Butadiene	54	4.348	4.361	(0.514)	54675	5.00000	4.6
6 Bromomethane	94	4.622	4.649	(0.546)	80179	5.00000	4.5
7 Chloroethane	64	4.795	4.822	(0.567)	39652	5.00000	4.6
8 Bromoethene	106	5.141	5.168	(0.608)	96865	5.00000	4.9
9 Acetone	43	5.530	5.529	(0.654)	227471	5.00000	4.6
0 Trichlorofluoromethane	101	5.561	5.574	(0.657)	335029	5.00000	5.0
1 Isopropyl Alcohol	45	5.819	5.832	(0.688)	159950	5.00000	4.9
2 1,1-Dichloroethene	96	6.183	6.197	(0.731)	93120	5.00000	5.1
3 Methylene Chloride	49	6.320	6.333	(0.747)	123547	5.00000	4.6
4 3-Chloropropene	41	6.441	6.455	(0.761)	56315	5.00000	4.7

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
	5 Carbon Disulfide	76	6.578	6.591	(0.778)	232948	5.00000	4.9
	6 Freon TF	101	6.593	6.606	(0.779)	214521	5.00000	4.9
	7 trans-1,2-Dichloroethene	61	7.245	7.259	(0.856)	166817	5.00000	5.0
	8 1,1-Dichloroethane	63	7.458	7.471	(0.882)	201163	5.00000	5.0
	9 Methyl tert-Butyl Ether	73	7.564	7.578	(0.894)	161417	5.00000	4.4
	0 Methyl Ethyl Ketone	43	7.913	7.927	(0.935)	213435	5.00000	4.7
	1 cis-1,2-Dichloroethene	61	8.292	8.306	(0.980)	175423	5.00000	5.2
*	2 Bromochloromethane	128	8.459	8.473	(1.000)	175961	10.0000	
	3 n-Hexane	57	8.520	8.534	(1.007)	126635	5.00000	4.6
	4 Chloroform	83	8.596	8.610	(1.016)	251044	5.00000	5.1
	5 Tetrahydrofuran	42	9.036	9.050	(0.864)	114321	5.00000	4.8
	6 1,2-Dichloroethane	62	9.355	9.353	(0.894)	231488	5.00000	5.0
	7 1,1,1-Trichloroethane	97	9.598	9.611	(0.917)	210411	5.00000	5.1
	8 Benzene	78	10.083	10.097	(0.964)	299645	5.00000	5.0
	9 Carbon Tetrachloride	117	10.220	10.233	(0.977)	37341	5.00000	5.5
	0 Cyclohexane	56	10.356	10.370	(0.990)	148473	5.00000	4.8
*	1 1,4-Difluorobenzene	114	10.463	10.461	(1.000)	969795	10.0000	
	2 1,2-Dichloropropane	63	10.948	10.947	(1.046)	112784	5.00000	5.1
	3 Bromodichloromethane	83	11.145	11.144	(1.065)	174007	5.00000	5.3
	4 Trichloroethene	95	11.191	11.189	(1.070)	186698	5.00000	5.4
	5 1,4-Dioxane	88	11.221	11.220	(1.073)	70334	5.00000	5.4
	6 2,2,4-Trimethylpentane	57	11.252	11.250	(1.075)	522007	5.00000	4.8
	7 n-Heptane	43	11.525	11.523	(1.102)	210760	5.00000	4.8
	8 cis-1,3-Dichloropropene	75	12.117	12.115	(1.158)	98875	5.00000	5.4
	9 Methyl Isobutyl Ketone	43	12.177	12.176	(1.164)	300338	5.00000	4.8
	0 trans-1,3-Dichloropropene	75	12.693	12.692	(1.213)	75125	5.00000	4.6
	1 1,1,2-Trichloroethane	83	12.891	12.889	(0.844)	123187	5.00000	5.3
	2 Toluene	92	13.209	13.208	(0.865)	241350	5.00000	5.2
	3 Methyl Butyl Ketone	43	13.513	13.511	(0.885)	296397	5.00000	4.6
	4 Dibromochloromethane	129	13.680	13.678	(0.896)	125006	5.00000	5.3
	5 1,2-Dibromoethane	107	13.968	13.982	(0.915)	416088	5.00000	5.1
	6 Tetrachloroethene	166	14.514	14.513	(0.950)	220507	5.00000	5.4
*	7 Chlorobenzene-d5	117	15.273	15.272	(1.000)	1041771	10.0000	
	8 Chlorobenzene	112	15.334	15.332	(1.004)	316340	5.00000	5.5
	9 Ethylbenzene	91	15.804	15.803	(1.035)	566046	5.00000	5.6
	0 Xylene (m,p)	106	16.017	16.015	(1.049)	369647	10.0000	11
	1 Bromoform	173	16.108	16.106	(1.055)	96293	5.00000	4.4
	2 Styrene	104	16.472	16.470	(1.078)	233878	5.00000	5.8
	3 1,1,2,2-Tetrachloroethane	83	16.593	16.592	(1.086)	254256	5.00000	5.7
	4 Xylene (o)	106	16.624	16.622	(1.088)	182174	5.00000	5.8
	5 2-Chlorotoluene	91	18.065	18.064	(1.183)	399651	5.00000	4.4
	6 4-Ethyltoluene	105	18.339	18.337	(1.201)	474827	5.00000	4.4
	7 1,3,5-Trimethylbenzene	105	18.445	18.443	(1.208)	471038	5.00000	6.3
	8 1,2,4-Trimethylbenzene	105	19.067	19.065	(1.248)	454911	5.00000	6.4
	9 1,3-Dichlorobenzene	146	19.295	19.293	(1.263)	284662	5.00000	6.4
	0 1,4-Dichlorobenzene	146	19.401	19.399	(1.270)	266189	5.00000	6.4
	6 1,2-Dichlorobenzene	146	19.947	19.946	(1.306)	261375	5.00000	6.9

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
62 1,2,4-Trichlorobenzene	180	22.618	22.617	(1.481)	139527	5.00000	8.4
63 Hexachlorobutadiene	225	23.407	23.406	(1.533)	172716	5.00000	8.1

Data File: /chem/X.i/Xsvr.p/xckto15.b/ck010.d
Date : 20-NOV-2000 09:00
Client ID: ASTD010
Sample Info: ASTD010
Purge Volume: 200.0
Column phase: DB-1

Instrument: X.i
Operator: GMH
Column diameter: 0.35



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AIR TOXICS QUANTITATION REPORT

Data file : /chem/X.i/Xsvr.p/xckto15.b/ck010.d
Lab Smp Id: ASTD010 Client Smp ID: ASTD010
Inj Date : 20-NOV-2000 09:00
Operator : GMM Inst ID: X.i
Smp Info : ASTD010
Misc Info :
Comment :
Method : /chem/X.i/Xsvr.p/xckto15.b/ato15.m
Meth Date : 28-Nov-2000 12:06 bes Quant Type: ISTD
Cal Date : 20-NOV-2000 09:00 Cal File: ck010.d
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1 Dichlorodifluoromethane	85	3.828	3.828	(0.452)	674181	10.0000	9.0
2 Chloromethane	50	3.986	3.986	(0.470)	126765	10.0000	8.9
3 Dichlorotetrafluoroethane	85	4.116	4.116	(0.486)	596268	10.0000	9.2
4 Vinyl Chloride	62	4.217	4.217	(0.498)	147810	10.0000	8.9
5 1,3-Butadiene	54	4.361	4.361	(0.515)	95683	10.0000	8.7
6 Bromomethane	94	4.649	4.649	(0.549)	138160	10.0000	8.4
7 Chloroethane	64	4.822	4.822	(0.569)	73469	10.0000	8.9
8 Bromoethene	106	5.168	5.168	(0.610)	171006	10.0000	9.1
9 Acetone	43	5.529	5.529	(0.653)	385910	10.0000	8.4
10 Trichlorofluoromethane	101	5.574	5.574	(0.658)	561965	10.0000	8.9
11 Isopropyl Alcohol	45	5.832	5.832	(0.688)	291373	10.0000	9.2
12 1,1-Dichloroethene	96	6.197	6.197	(0.731)	151802	10.0000	8.8
13 Methylene Chloride	49	6.333	6.333	(0.747)	212521	10.0000	8.5
14 3-Chloropropene	41	6.455	6.455	(0.762)	97231	10.0000	8.6

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
15 Carbon Disulfide	76	6.591	6.591	(0.778)	403679	10.0000	9.0
16 Freon TF	101	6.606	6.606	(0.780)	364270	10.0000	8.8
17 trans-1,2-Dichloroethene	61	7.259	7.259	(0.857)	282460	10.0000	8.9
18 1,1-Dichloroethane	63	7.471	7.471	(0.882)	331875	10.0000	8.7
19 Methyl tert-Butyl Ether	73	7.578	7.578	(0.894)	279486	10.0000	8.3
20 Methyl Ethyl Ketone	43	7.927	7.927	(0.936)	387805	10.0000	9.0
21 cis-1,2-Dichloroethene	61	8.306	8.306	(0.980)	285578	10.0000	8.9
* 22 Bromochloromethane	128	8.473	8.473	(1.000)	176038	10.0000	
23 n-Hexane	57	8.534	8.534	(1.007)	221281	10.0000	8.5
24 Chloroform	83	8.610	8.610	(1.016)	418806	10.0000	9.0
25 Tetrahydrofuran	42	9.050	9.050	(0.865)	194420	10.0000	9.4
26 1,2-Dichloroethane	62	9.353	9.353	(0.894)	382569	10.0000	9.4
27 1,1,1-Trichloroethane	97	9.611	9.611	(0.919)	371901	10.0000	10
28 Benzene	78	10.097	10.097	(0.965)	496466	10.0000	9.4
29 Carbon Tetrachloride	117	10.233	10.233	(0.978)	65509	10.0000	10
30 Cyclohexane	56	10.370	10.370	(0.991)	236757	10.0000	9.0
* 31 1,4-Difluorobenzene	114	10.461	10.461	(1.000)	868474	10.0000	
32 1,2-Dichloropropane	63	10.947	10.947	(1.046)	175622	10.0000	9.2
33 Bromodichloromethane	83	11.144	11.144	(1.065)	286112	10.0000	9.8
34 Trichloroethene	95	11.189	11.189	(1.070)	275950	10.0000	9.2
35 1,4-Dioxane	88	11.220	11.220	(1.073)	112854	10.0000	9.8
36 2,2,4-Trimethylpentane	57	11.250	11.250	(1.075)	805204	10.0000	8.8
37 n-Heptane	43	11.523	11.523	(1.102)	319992	10.0000	8.7
38 cis-1,3-Dichloropropene	75	12.115	12.115	(1.158)	179753	10.0000	10
39 Methyl Isobutyl Ketone	43	12.176	12.176	(1.164)	511610	10.0000	9.4
40 trans-1,3-Dichloropropene	75	12.692	12.692	(1.213)	141933	10.0000	9.8
41 1,1,2-Trichloroethane	83	12.889	12.889	(0.844)	198794	10.0000	9.1
42 Toluene	92	13.208	13.208	(0.865)	412715	10.0000	9.4
43 Methyl Butyl Ketone	43	13.511	13.511	(0.885)	542273	10.0000	9.0
44 Dibromochloromethane	129	13.678	13.678	(0.896)	253942	10.0000	11
45 1,2-Dibromoethane	107	13.982	13.982	(0.916)	757857	10.0000	9.7
46 Tetrachloroethene	166	14.513	14.513	(0.950)	371844	10.0000	9.5
* 47 Chlorobenzene-d5	117	15.272	15.272	(1.000)	1021687	10.0000	
48 Chlorobenzene	112	15.332	15.332	(1.004)	564559	10.0000	10
49 Ethylbenzene	91	15.803	15.803	(1.035)	994404	10.0000	10
50 Xylene (m,p)	106	16.015	16.015	(1.049)	678081	20.0000	20
51 Bromoform	173	16.106	16.106	(1.055)	210732	10.0000	9.8
52 Styrene	104	16.470	16.470	(1.079)	463840	10.0000	11
53 1,1,2,2-Tetrachloroethane	83	16.592	16.592	(1.086)	477821	10.0000	11
54 Xylene (o)	106	16.622	16.622	(1.088)	345115	10.0000	11
55 2-Chlorotoluene	91	18.064	18.064	(1.183)	805169	10.0000	9.4
56 4-Ethyltoluene	105	18.337	18.337	(1.201)	932018	10.0000	9.1
57 1,3,5-Trimethylbenzene	105	18.443	18.443	(1.208)	911689	10.0000	11
58 1,2,4-Trimethylbenzene	105	19.065	19.065	(1.248)	882341	10.0000	12
59 1,3-Dichlorobenzene	146	19.293	19.293	(1.263)	566790	10.0000	12
60 1,4-Dichlorobenzene	146	19.399	19.399	(1.270)	541757	10.0000	12
61 1,2-Dichlorobenzene	146	19.946	19.946	(1.306)	531749	10.0000	12

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
62 1,2,4-Trichlorobenzene	180	22.617	22.617	(1.481)	330270	10.0000	15
63 Hexachlorobutadiene	225	23.406	23.406	(1.533)	324856	10.0000	13

Data File: /chem/X.i/Xsvr.p/xckto15.b/ck020.d

Date : 20-NOV-2000 09:34

Client ID: ASTD020

Instrument: X.i

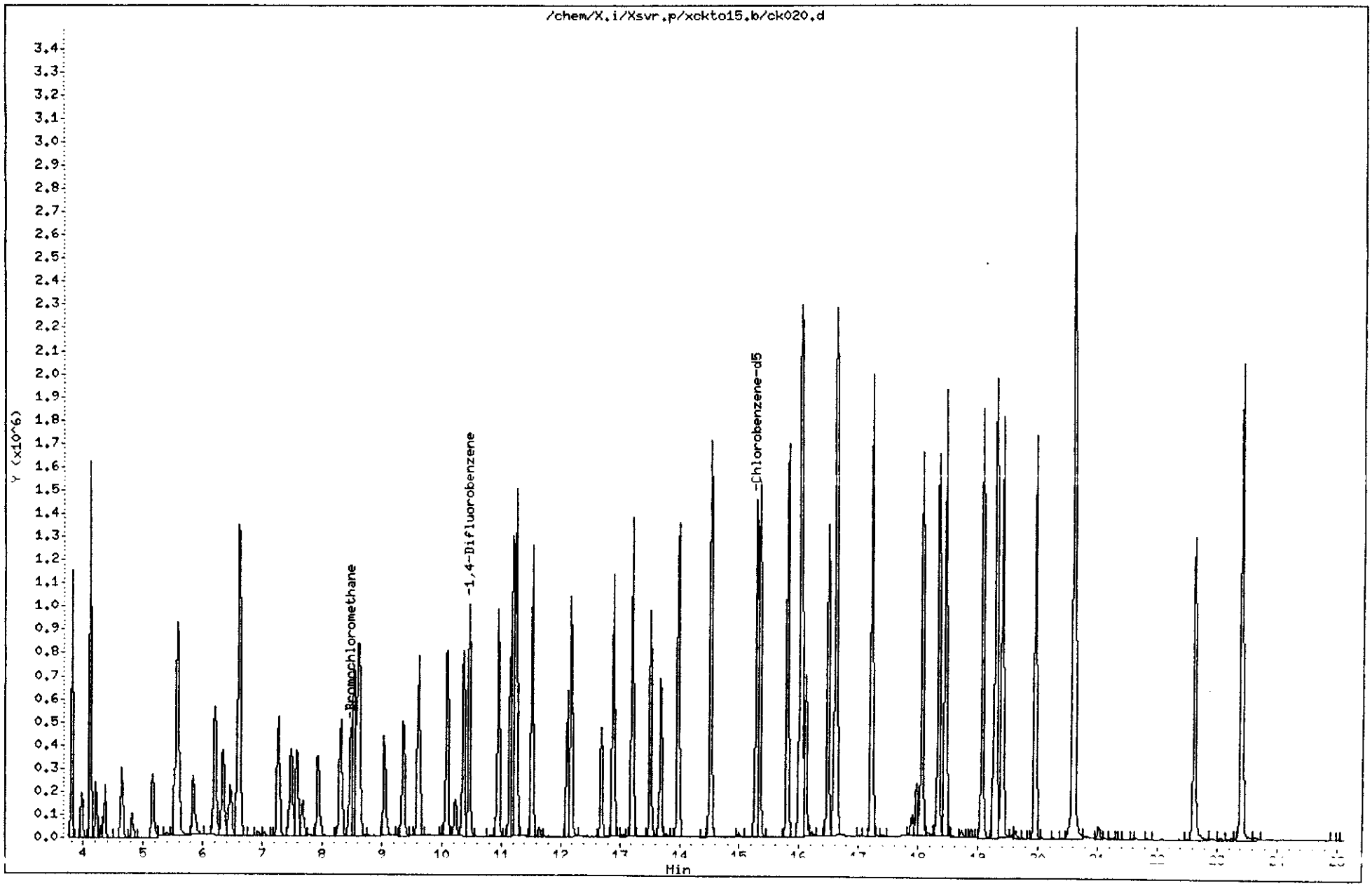
Sample Info: ASTD020

Purge Volume: 200.0

Operator: GHM

Column phase: DB-1

Column diameter: 0.35



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STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/X.i/Xsvr.p/xckto15.b/ck020.d
Lab Smp Id: ASTD020 Client Smp ID: ASTD020
Inj Date : 20-NOV-2000 09:34
Operator : GMM Inst ID: X.i
Smp Info : ASTD020
Misc Info :
Comment :
Method : /chem/X.i/Xsvr.p/xckto15.b/ato15.m
Meth Date : 28-Nov-2000 12:06 bes Quant Type: ISTD
Cal Date : 20-NOV-2000 09:34 Cal File: ck020.d
Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
	Dichlorodifluoromethane	85	3.800	3.828	(0.448)	1253558	20.0000	17
	Chloromethane	50	3.973	3.986	(0.469)	245909	20.0000	17
	Dichlorotetrafluoroethane	85	4.103	4.116	(0.484)	1110057	20.0000	17
	Vinyl Chloride	62	4.204	4.217	(0.496)	276875	20.0000	17
	1,3-Butadiene	54	4.348	4.361	(0.513)	181756	20.0000	17
	Bromomethane	94	4.636	4.649	(0.547)	282068	20.0000	17
	Chloroethane	64	4.809	4.822	(0.567)	138227	20.0000	17
	Bromoethene	106	5.155	5.168	(0.608)	314824	20.0000	17
	Acetone	43	5.515	5.529	(0.651)	743391	20.0000	16
1	Trichlorofluoromethane	101	5.561	5.574	(0.656)	1047330	20.0000	17
1	Isopropyl Alcohol	45	5.834	5.832	(0.688)	551612	20.0000	18
1	1,1-Dichloroethene	96	6.198	6.197	(0.731)	279612	20.0000	16
1	Methylene Chloride	49	6.335	6.333	(0.748)	398898	20.0000	16
1	3-Chloropropene	41	6.456	6.455	(0.762)	227329	20.0000	20

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
	15 Carbon Disulfide	76	6.577	6.591	(0.776)	768621	20.0000	17
	16 Freon TF	101	6.608	6.606	(0.780)	687894	20.0000	17
	17 trans-1,2-Dichloroethene	61	7.260	7.259	(0.857)	531154	20.0000	17
	18 1,1-Dichloroethane	63	7.473	7.471	(0.882)	641679	20.0000	17
	19 Methyl tert-Butyl Ether	73	7.564	7.578	(0.893)	538805	20.0000	16
	20 Methyl Ethyl Ketone	43	7.928	7.927	(0.936)	758212	20.0000	18
	21 cis-1,2-Dichloroethene	61	8.307	8.306	(0.980)	519836	20.0000	16
*	22 Bromochloromethane	128	8.474	8.473	(1.000)	182642	10.0000	
	23 n-Hexane	57	8.535	8.534	(1.007)	413122	20.0000	16
	24 Chloroform	83	8.611	8.610	(1.016)	794901	20.0000	17
	25 Tetrahydrofuran	42	9.036	9.050	(0.864)	363192	20.0000	17
	26 1,2-Dichloroethane	62	9.355	9.353	(0.894)	675545	20.0000	17
	27 1,1,1-Trichloroethane	97	9.613	9.611	(0.919)	720720	20.0000	19
	28 Benzene	78	10.098	10.097	(0.965)	923426	20.0000	17
	29 Carbon Tetrachloride	117	10.235	10.233	(0.978)	133329	20.0000	20
	30 Cyclohexane	56	10.371	10.370	(0.991)	454456	20.0000	17
*	31 1,4-Difluorobenzene	114	10.462	10.461	(1.000)	917612	10.0000	
	32 1,2-Dichloropropane	63	10.948	10.947	(1.046)	343810	20.0000	18
	33 Bromodichloromethane	83	11.145	11.144	(1.065)	624381	20.0000	20
	34 Trichloroethene	95	11.191	11.189	(1.070)	497889	20.0000	16
	35 1,4-Dioxane	88	11.221	11.220	(1.073)	215674	20.0000	18
	36 2,2,4-Trimethylpentane	57	11.252	11.250	(1.075)	1519717	20.0000	17
	37 n-Heptane	43	11.525	11.523	(1.102)	615391	20.0000	17
	38 cis-1,3-Dichloropropene	75	12.117	12.115	(1.158)	394462	20.0000	21
	39 Methyl Isobutyl Ketone	43	12.177	12.176	(1.164)	987607	20.0000	18
	40 trans-1,3-Dichloropropene	75	12.693	12.692	(1.213)	316948	20.0000	20
	41 1,1,2-Trichloroethane	83	12.890	12.889	(0.844)	367268	20.0000	18
	42 Toluene	92	13.209	13.208	(0.865)	716997	20.0000	17
	43 Methyl Butyl Ketone	43	13.513	13.511	(0.885)	927127	20.0000	16
	44 Dibromochloromethane	129	13.680	13.678	(0.896)	502782	20.0000	21
	45 1,2-Dibromoethane	107	13.983	13.982	(0.916)	1349193	20.0000	18
	46 Tetrachloroethene	166	14.514	14.513	(0.950)	626169	20.0000	17
*	47 Chlorobenzene-d5	117	15.273	15.272	(1.000)	1015898	10.0000	
	48 Chlorobenzene	112	15.334	15.332	(1.004)	992449	20.0000	18
	49 Ethylbenzene	91	15.804	15.803	(1.035)	1768496	20.0000	18
	50 Xylene (m,p)	106	16.017	16.015	(1.049)	1197562	40.0000	37
	51 Bromoform	173	16.108	16.106	(1.055)	435968	20.0000	20
	52 Styrene	104	16.472	16.470	(1.078)	834412	20.0000	20
	53 1,1,2,2-Tetrachloroethane	83	16.593	16.592	(1.086)	882839	20.0000	20
	54 Xylene (o)	106	16.624	16.622	(1.088)	570689	20.0000	18
	55 2-Chlorotoluene	91	18.065	18.064	(1.183)	1335816	20.0000	16
	56 4-Ethyltoluene	105	18.338	18.337	(1.201)	1547333	20.0000	16
	57 1,3,5-Trimethylbenzene	105	18.445	18.443	(1.208)	1543304	20.0000	20
	58 1,2,4-Trimethylbenzene	105	19.067	19.065	(1.248)	1477157	20.0000	20
	59 1,3-Dichlorobenzene	146	19.295	19.293	(1.263)	1081003	20.0000	22
	60 1,4-Dichlorobenzene	146	19.401	19.399	(1.270)	1039175	20.0000	22
	61 1,2-Dichlorobenzene	146	19.947	19.946	(1.306)	1017781	20.0000	23

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
2 1,2,4-Trichlorobenzene	180	22.618	22.617	(1.481)	642544	20.0000	26
3 Hexachlorobutadiene	225	23.407	23.406	(1.533)	612822	20.0000	23

Data File: /chem/X.i/Xsvr.p/xckto15.b/ck040.d

Date : 20-NOV-2000 10:11

Client ID: ASTD040

Instrument: X.i

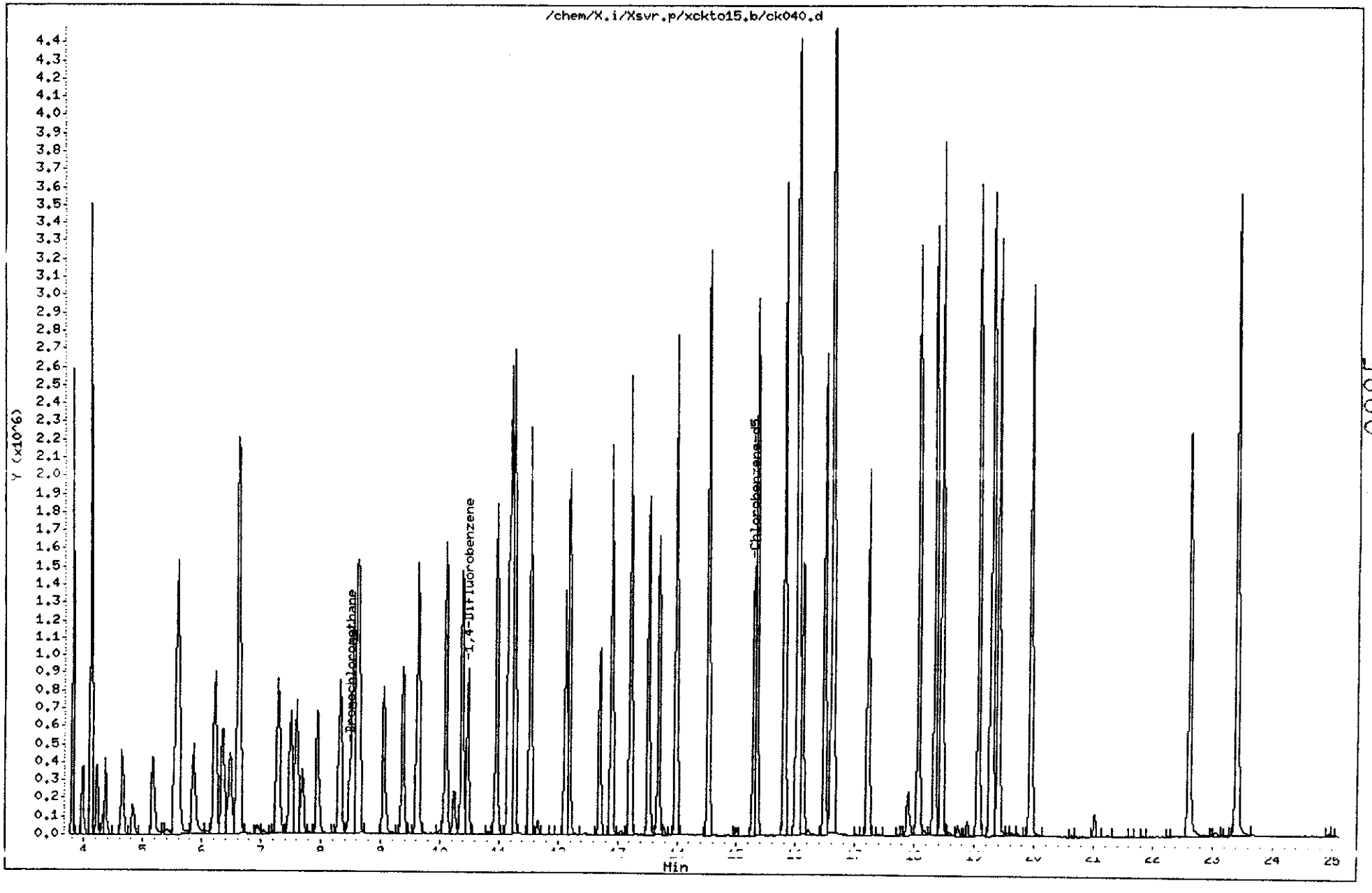
Sample Info: ASTD040

Purge Volume: 200.0

Operator: GMM

Column phase: DB-1

Column diameter: 0.35



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STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/X.i/Xsvr.p/xckto15.b/ck040.d
Lab Smp Id: ASTD040 Client Smp ID: ASTD040
Inj Date : 20-NOV-2000 10:11
Operator : GMM Inst ID: X.i
Smp Info : ASTD040
Misc Info :
Comment :
Method : /chem/X.i/Xsvr.p/xckto15.b/ato15.m
Meth Date : 28-Nov-2000 12:06 bes Quant Type: ISTD
Cal Date : 20-NOV-2000 10:11 Cal File: ck040.d
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	Dichlorodifluoromethane	85	3.813	3.828	(0.449)	2387382	40.0000	34
	Chloromethane	50	3.986	3.986	(0.470)	524459	40.0000	38
	Dichlorotetrafluoroethane	85	4.116	4.116	(0.485)	2052634	40.0000	33
	Vinyl Chloride	62	4.217	4.217	(0.497)	518157	40.0000	33
	1,3-Butadiene	54	4.361	4.361	(0.514)	326946	40.0000	32
	Bromomethane	94	4.635	4.649	(0.546)	468564	40.0000	31
	Chloroethane	64	4.822	4.822	(0.568)	262378	40.0000	34
	Bromoethene	106	5.154	5.168	(0.607)	573599	40.0000	32
	Acetone	43	5.529	5.529	(0.651)	1401332	40.0000	33
1	Trichlorofluoromethane	101	5.575	5.574	(0.657)	2019609	40.0000	34
1	Isopropyl Alcohol	45	5.848	5.832	(0.689)	1103352	40.0000	36
1	1,1-Dichloroethene	96	6.212	6.197	(0.732)	528864	40.0000	33
1	Methylene Chloride	49	6.349	6.333	(0.748)	776564	40.0000	33
1	3-Chloropropene	41	6.470	6.455	(0.762)	524478	40.0000	44(A)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
	15 Carbon Disulfide	76	6.592	6.591	(0.777)	1525252	40.0000	36
	16 Freon TF	101	6.622	6.606	(0.780)	1298139	40.0000	33
	17 trans-1,2-Dichloroethene	61	7.274	7.259	(0.857)	1031093	40.0000	34
	18 1,1-Dichloroethane	63	7.487	7.471	(0.882)	1250894	40.0000	35
	19 Methyl tert-Butyl Ether	73	7.578	7.578	(0.893)	1141885	40.0000	36
	20 Methyl Ethyl Ketone	43	7.927	7.927	(0.934)	1550757	40.0000	37
	21 cis-1,2-Dichloroethene	61	8.322	8.306	(0.980)	1005364	40.0000	33
*	22 Bromochloromethane	128	8.489	8.473	(1.000)	181150	10.0000	
	23 n-Hexane	57	8.534	8.534	(1.005)	827916	40.0000	34
	24 Chloroform	83	8.625	8.610	(1.016)	1552244	40.0000	35
	25 Tetrahydrofuran	42	9.050	9.050	(0.864)	721300	40.0000	36
	26 1,2-Dichloroethane	62	9.369	9.353	(0.894)	1331735	40.0000	34
	27 1,1,1-Trichloroethane	97	9.627	9.611	(0.919)	1487208	40.0000	39
	28 Benzene	78	10.097	10.097	(0.964)	1875694	40.0000	36
	29 Carbon Tetrachloride	117	10.234	10.233	(0.977)	216639	40.0000	34
	30 Cyclohexane	56	10.370	10.370	(0.990)	928061	40.0000	36
*	31 1,4-Difluorobenzene	114	10.477	10.461	(1.000)	909621	10.0000	
	32 1,2-Dichloropropane	63	10.962	10.947	(1.046)	682064	40.0000	36
	33 Bromodichloromethane	83	11.159	11.144	(1.065)	1411019	40.0000	45(A)
	34 Trichloroethene	95	11.205	11.189	(1.070)	942704	40.0000	33
	35 1,4-Dioxane	88	11.220	11.220	(1.071)	434301	40.0000	38
	36 2,2,4-Trimethylpentane	57	11.266	11.250	(1.075)	3065119	40.0000	35
	37 n-Heptane	43	11.539	11.523	(1.101)	1251743	40.0000	35
	38 cis-1,3-Dichloropropene	75	12.131	12.115	(1.158)	909891	40.0000	48(A)
	39 Methyl Isobutyl Ketone	43	12.191	12.176	(1.164)	2035621	40.0000	37
	40 trans-1,3-Dichloropropene	75	12.707	12.692	(1.213)	777865	40.0000	48(A)
	41 1,1,2-Trichloroethane	83	12.905	12.889	(0.844)	728168	40.0000	35
	42 Toluene	92	13.223	13.208	(0.865)	1427999	40.0000	34
	43 Methyl Butyl Ketone	43	13.527	13.511	(0.885)	1957148	40.0000	35
	44 Dibromochloromethane	129	13.694	13.678	(0.896)	1186008	40.0000	46(A)
	45 1,2-Dibromoethane	107	13.982	13.982	(0.915)	2698903	40.0000	36
	46 Tetrachloroethene	166	14.528	14.513	(0.950)	1218576	40.0000	33
*	47 Chlorobenzene-d5	117	15.287	15.272	(1.000)	1041780	10.0000	
	48 Chlorobenzene	112	15.333	15.332	(1.003)	2004610	40.0000	37
	49 Ethylbenzene	91	15.803	15.803	(1.034)	3559973	40.0000	37
	50 Xylene (m,p)	106	16.031	16.015	(1.049)	2428719	80.0000	74
	51 Bromoform	173	16.122	16.106	(1.055)	1089377	40.0000	47(A)
	52 Styrene	104	16.486	16.470	(1.078)	1753495	40.0000	41(A)
	53 1,1,2,2-Tetrachloroethane	83	16.607	16.592	(1.086)	1876330	40.0000	41(A)
	54 Xylene (o)	106	16.623	16.622	(1.087)	1186117	40.0000	38
	55 2-Chlorotoluene	91	18.064	18.064	(1.182)	2698131	40.0000	34
	56 4-Ethyltoluene	105	18.337	18.337	(1.200)	3220146	40.0000	34
	57 1,3,5-Trimethylbenzene	105	18.444	18.443	(1.206)	3043904	40.0000	38
	58 1,2,4-Trimethylbenzene	105	19.066	19.065	(1.247)	2962106	40.0000	39
	59 1,3-Dichlorobenzene	146	19.293	19.293	(1.262)	1990578	40.0000	40
	60 1,4-Dichlorobenzene	146	19.400	19.399	(1.269)	1942428	40.0000	40(A)
	61 1,2-Dichlorobenzene	146	19.946	19.946	(1.305)	1854584	40.0000	41(A)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
62 1,2,4-Trichlorobenzene	180	22.617	22.617	(1.479)	1149324	40.0000	45(A)
63 Hexachlorobutadiene	225	23.406	23.406	(1.531)	1090265	40.0000	40(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

STL Burlington

INITIAL CALIBRATION DATA

Start Cal Date : 20-NOV-2000 07:52
End Cal Date : 20-NOV-2000 10:11
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/X.i/Xsvr.p/xckto15.b/ato15.m
Cal Date : 28-Nov-2000 12:07 bes
Curve Type : Average

Calibration File Names:
Level 1: /chem/X.i/Xsvr.p/xckto15.b/ck0005.d
Level 2: /chem/X.i/Xsvr.p/xckto15.b/ck005.d
Level 3: /chem/X.i/Xsvr.p/xckto15.b/ck010.d
Level 4: /chem/X.i/Xsvr.p/xckto15.b/ck020.d
Level 5: /chem/X.i/Xsvr.p/xckto15.b/ck040.d

Compound	0.50000 Level 1	5.000 Level 2	10.000 Level 3	20.000 Level 4	40.000 Level 5	RRF	% RSD
1 Dichlorodifluoromethane	4.39233	4.60093	3.82975	3.43174	3.29476	3.90990	14.713
2 Chloromethane	0.88924	0.80883	0.72010	0.67320	0.72379	0.76303	11.251
3 Dichlorotetrafluoroethane	3.77090	3.91866	3.38716	3.03889	2.83278	3.38968	13.666
4 Vinyl Chloride	1.00541	0.98871	0.83965	0.75797	0.71509	0.86137	15.305
5 1,3-Butadiene	0.71701	0.62144	0.54354	0.49757	0.45121	0.56615	18.576
6 Bromomethane	1.10526	0.91133	0.78483	0.77219	0.64665	0.84405	20.554
7 Chloroethane	0.53916	0.45069	0.41735	0.37841	0.36210	0.42954	16.369
8 Bromoethene	1.14353	1.10098	0.97142	0.86186	0.79161	0.97388	15.463
9 Acetone	3.06231	2.58547	2.19220	2.03510	1.93394	2.36181	19.625
10 Trichlorofluoromethane	3.72347	3.80799	3.19229	2.86717	2.78721	3.27563	14.451
11 Isopropyl Alcohol	1.91088	1.81802	1.65517	1.51009	1.52270	1.68337	10.565
12 1,1-Dichloroethene	1.02777	1.05842	0.86233	0.76546	0.72987	0.88877	16.807
13 Methylene Chloride	1.63391	1.40425	1.20725	1.09202	1.07171	1.28183	18.490
14 3-Chloropropene	0.72782	0.64009	0.55233	0.62233	0.72382	0.65328	11.315
15 Carbon Disulfide	2.70454	2.64772	2.29314	2.10417	2.10496	2.37091	12.222
16 Freon TF	2.52877	2.43828	2.06927	1.88318	1.79152	2.14220	15.350
17 trans-1,2-Dichloroethene	1.90724	1.89607	1.60454	1.45409	1.42298	1.65698	14.104
18 1,1-Dichloroethane	2.31390	2.28645	1.88525	1.75666	1.72632	1.99371	14.356
19 Methyl tert-Butyl Ether	2.31421	1.83469	1.58765	1.47503	1.57588	1.75749	19.243
20 Methyl Ethyl Ketone	2.75425	2.42594	2.20296	2.07568	2.14016	2.31980	11.914
21 cis-1,2-Dichloroethene	1.86272	1.99389	1.62225	1.42310	1.38747	1.65789	16.083
23 n-Hexane	1.71525	1.43935	1.25701	1.13096	1.14258	1.33703	18.328
24 Chloroform	2.72232	2.85341	2.37907	2.17612	2.14221	2.45462	13.068
25 Tetrahydrofuran	0.25075	0.23576	0.22386	0.19790	0.19824	0.22130	10.506
26 1,2-Dichloroethane	0.48417	0.47740	0.44051	0.36810	0.36601	0.42724	13.435
27 1,1,1-Trichloroethane	0.41173	0.43393	0.42822	0.39272	0.40874	0.41507	3.958

STL Burlington

INITIAL CALIBRATION DATA

Start Cal Date : 20-NOV-2000 07:52
End Cal Date : 20-NOV-2000 10:11
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/X.i/Xsvr.p/xckto15.b/ato15.m
Cal Date : 28-Nov-2000 12:07 bes
Curve Type : Average

Compound	0.50000 Level 1	5.000 Level 2	10.000 Level 3	20.000 Level 4	40.000 Level 5	RRF	% RSD
28 Benzene	0.62408	0.61796	0.57165	0.50317	0.51552	0.56647	9.908
29 Carbon Tetrachloride	0.06181	0.07701	0.07543	0.07265	0.05954	0.06929	11.628
30 Cyclohexane	0.33322	0.30619	0.27261	0.24763	0.25507	0.28294	12.742
32 1,2-Dichloropropane	0.22554	0.23259	0.20222	0.18734	0.18746	0.20703	10.218
33 Bromodichloromethane	0.32179	0.35885	0.32944	0.34022	0.38780	0.34762	7.602
34 Trichloroethene	0.33443	0.38503	0.31774	0.27130	0.25909	0.31352	16.196
35 1,4-Dioxane	0.12436	0.14505	0.12995	0.11752	0.11936	0.12725	8.692
36 2,2,4-Trimethylpentane	1.14283	1.07653	0.92715	0.82808	0.84242	0.96340	14.611
37 n-Heptane	0.46299	0.43465	0.36845	0.33532	0.34403	0.38909	14.587
38 cis-1,3-Dichloropropene	0.17660	0.20391	0.20698	0.21494	0.25007	0.21050	12.548
39 Methyl Isobutyl Ketone	0.68128	0.61938	0.58909	0.53814	0.55947	0.59747	9.371
40 trans-1,3-Dichloropropene	0.18065	0.15493	0.16343	0.17270	0.21379	0.17710	12.803
41 1,1,2-Trichloroethane	0.21079	0.23650	0.19457	0.18076	0.17474	0.19947	12.494
42 Toluene	0.42337	0.46335	0.40395	0.35289	0.34268	0.39725	12.613
43 Methyl Butyl Ketone	0.67475	0.56903	0.53076	0.45631	0.46966	0.54010	16.309
44 Dibromochloromethane	0.21177	0.23999	0.24855	0.24746	0.28461	0.24648	10.553
45 1,2-Dibromoethane	0.75955	0.79881	0.74177	0.66404	0.64767	0.72237	8.914
46 Tetrachloroethene	0.36344	0.42333	0.36395	0.30818	0.29243	0.35027	14.846
48 Chlorobenzene	0.48801	0.60731	0.55258	0.48846	0.48105	0.52348	10.532
49 Ethylbenzene	0.86883	1.08670	0.97330	0.87041	0.85430	0.93071	10.670
50 Xylene (m,p)	0.29116	0.35483	0.33184	0.29471	0.29141	0.31279	9.296
51 Bromoform	0.23887	0.18486	0.20626	0.21457	0.26142	0.22120	13.406
52 Styrene	0.32773	0.44900	0.45399	0.41068	0.42079	0.41244	12.311
53 1,1,2,2-Tetrachloroethane	0.36244	0.48812	0.46768	0.43451	0.45027	0.44061	10.903
54 Xylene (o)	0.24738	0.34974	0.33779	0.28088	0.28464	0.30009	14.209
55 2-Chlorotoluene	0.95756	0.76725	0.78808	0.65746	0.64748	0.76357	16.434
56 4-Ethyltoluene	1.17010	0.91158	0.91223	0.76156	0.77275	0.90564	18.180
57 1,3,5-Trimethylbenzene	0.53263	0.90430	0.89234	0.75958	0.73046	0.76386	19.727
58 1,2,4-Trimethylbenzene	0.49441	0.87334	0.86361	0.72702	0.71083	0.73384	20.912
59 1,3-Dichlorobenzene	0.30334	0.54650	0.55476	0.53204	0.47769	0.48286	21.694
60 1,4-Dichlorobenzene	0.28450	0.51103	0.53026	0.51146	0.46613	0.46068	21.983
61 1,2-Dichlorobenzene	0.22224	0.50179	0.52046	0.50093	0.44505	0.43809	28.288
62 1,2,4-Trichlorobenzene	0.04922	0.26787	0.32326	0.31624	0.27581	0.24648	45.808 <-

STL Burlington

INITIAL CALIBRATION DATA

Start Cal Date : 20-NOV-2000 07:52
End Cal Date : 20-NOV-2000 10:11
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/X.i/Xsvr.p/xckto15.b/ato15.m
Cal Date : 28-Nov-2000 12:07 bes
Curve Type : Average

Compound	0.50000 Level 1	5.000 Level 2	10.000 Level 3	20.000 Level 4	40.000 Level 5	RRF	% RSD	
63 Hexachlorobutadiene	0.07823	0.33158	0.31796	0.30162	0.26164	0.25820	40.269	<-

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80694

Instrument ID: X Calibration Date: 11/21/00 Time: 0751

Lab File ID: CK010A Init. Calib. Date(s): 11/20/00 11/20/00

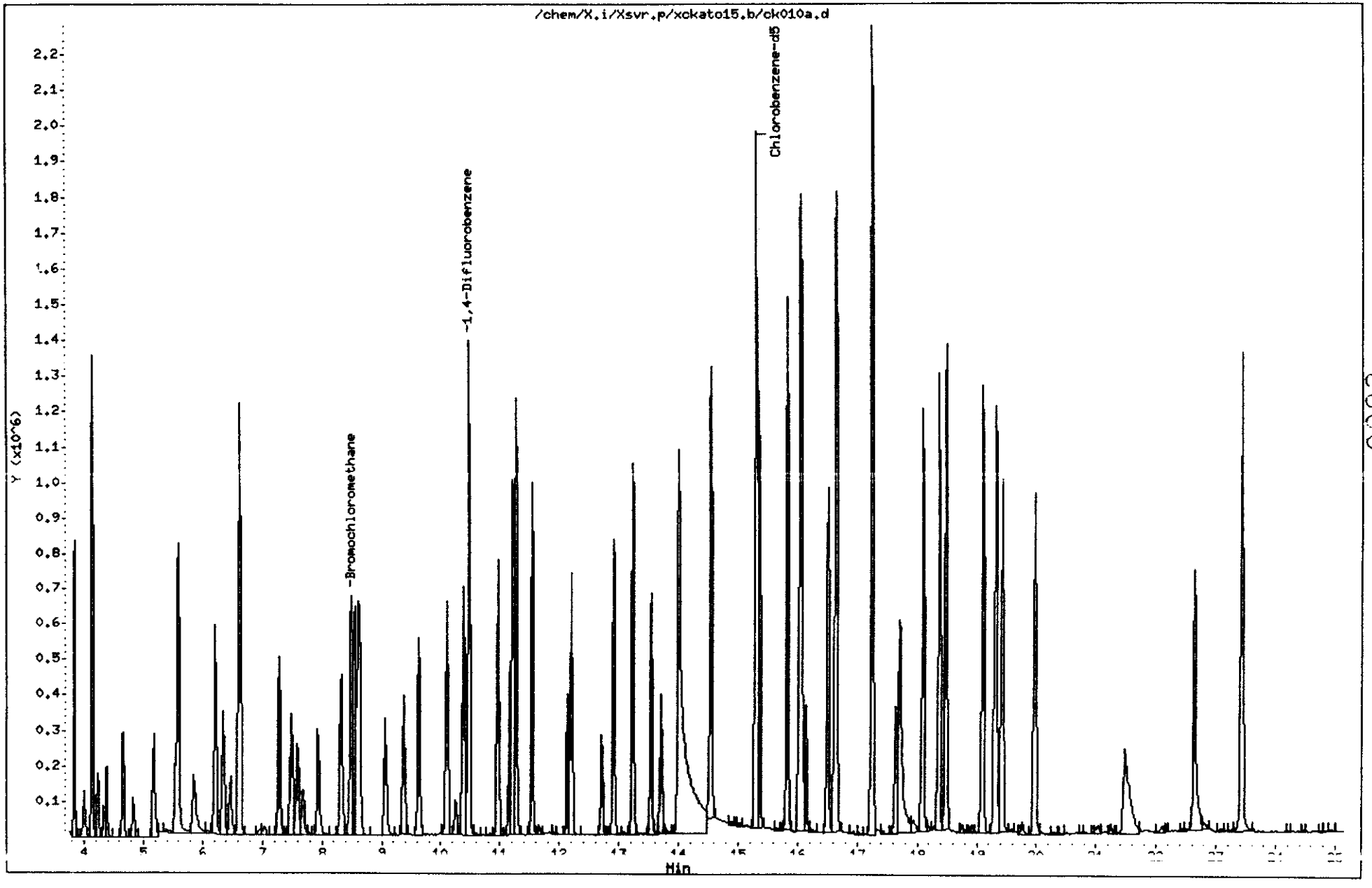
Heated Purge: (Y/N) N Init. Calib. Times: 0752 1011

GC Column: DB-1 ID: 0.35 (mm)

COMPOUND	$\overline{RRF}$	RRF10	MIN RRF	%D	MAX %D
Chloromethane	0.763	0.758	0.01	0.6	30.0
Vinyl Chloride	0.861	0.925	0.01	7.4	30.0
Bromomethane	0.844	1.004	0.01	19.0	30.0
Chloroethane	0.429	0.465	0.01	8.4	30.0
Trichlorofluoromethane	3.275	3.071	0.01	6.2	30.0
Methylene Chloride	1.282	1.207	0.01	5.8	30.0
1,1-Dichloroethane	1.994	1.982	0.1	0.6	30.0
cis-1,2-Dichloroethene	1.658	1.741	0.01	5.0	30.0
Chloroform	2.454	2.372	0.01	3.3	30.0
1,1,1-Trichloroethane	0.415	0.376	0.01	9.4	30.0
Carbon Tetrachloride	0.069	0.062	0.01	10.1	30.0
Benzene	0.567	0.587	0.01	3.5	30.0
1,2-Dichloroethane	0.427	0.385	0.01	9.8	30.0
Trichloroethene	0.313	0.314	0.01	0.3	30.0
1,2-Dichloropropane	0.207	0.212	0.01	2.4	30.0
cis-1,3-Dichloropropene	0.211	0.205	0.01	2.8	30.0
Toluene	0.397	0.417	0.01	5.0	30.0
trans-1,3-Dichloropropene	0.177	0.150	0.01	15.2	30.0
1,1,2-Trichloroethane	0.199	0.199	0.01	0.0	30.0
Tetrachloroethene	0.350	0.342	0.01	2.3	30.0
Chlorobenzene	0.523	0.590	0.3	12.8	30.0
Ethylbenzene	0.931	1.047	0.01	12.4	30.0
Xylene (m,p)	0.313	0.346	0.01	10.5	30.0
Styrene	0.413	0.448	0.01	8.5	30.0
Xylene (o)	0.300	0.332	0.01	10.7	30.0
1,1,2,2-Tetrachloroethane	0.440	0.479	0.01	8.9	30.0
1,3-Dichlorobenzene	0.483	0.487	0.01	0.8	30.0
1,4-Dichlorobenzene	0.460	0.464	0.01	0.9	30.0
1,2-Dichlorobenzene	0.438	0.456	0.01	4.1	30.0

Data File: /chem/X.i/Xsvr.p/xckato15.b/ck010a.d
Date : 21-NOV-2000 07:51
Client ID: ASTD010
Sample Info: ASTD010;ASTD010
Purge Volume: 200.0
Column phase: DB-1

Instrument: X.i
Operator: GHM
Column diameter: 0.35



0093

STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/X.i/Xsvr.p/xckato15.b/ck010a.d
Lab Smp Id: ASTD010 Client Smp ID: ASTD010
Inj Date : 21-NOV-2000 07:51
Operator : GMM Inst ID: X.i
Smp Info : ASTD010;ASTD010
Misc Info :
Comment :
Method : /chem/X.i/Xsvr.p/xckato15.b/ato15.m
Meth Date : 28-Nov-2000 14:00 mim Quant Type: ISTD
Cal Date : 20-NOV-2000 10:11 Cal File: ck040.d
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA2.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
2 Chloromethane	50	3.993	3.986	(0.470)	189969	10.0000	9.9
4 Vinyl Chloride	62	4.224	4.217	(0.498)	231835	10.0000	11
6 Bromomethane	94	4.656	4.649	(0.548)	251690	10.0000	12
7 Chloroethane	64	4.829	4.822	(0.569)	116639	10.0000	11
10 Trichlorofluoromethane	101	5.590	5.574	(0.659)	769587	10.0000	9.4
13 Methylene Chloride	49	6.349	6.333	(0.748)	302380	10.0000	9.4
18 1,1-Dichloroethane	63	7.487	7.471	(0.882)	496634	10.0000	9.9
21 cis-1,2-Dichloroethene	61	8.322	8.306	(0.980)	436232	10.0000	10
* 22 Bromochloromethane	128	8.489	8.473	(1.000)	250603	10.0000	
24 Chloroform	83	8.626	8.610	(1.016)	594392	10.0000	9.7
26 1,2-Dichloroethane	62	9.369	9.353	(0.894)	494844	10.0000	9.0
27 1,1,1-Trichloroethane	97	9.627	9.611	(0.919)	482852	10.0000	9.1
28 Benzene	78	10.113	10.097	(0.965)	753659	10.0000	10
29 Carbon Tetrachloride	117	10.249	10.233	(0.978)	79785	10.0000	9.0

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
* 31 1,4-Difluorobenzene	114	10.477	10.461	(1.000)	1283893	10.0000	
32 1,2-Dichloropropane	63	10.963	10.947	(1.046)	271950	10.0000	10
34 Trichloroethene	95	11.205	11.189	(1.070)	403682	10.0000	10
38 cis-1,3-Dichloropropene	75	12.131	12.115	(1.158)	263613	10.0000	9.8
40 trans-1,3-Dichloropropene	75	12.708	12.692	(1.213)	192572	10.0000	8.5
41 1,1,2-Trichloroethane	83	12.905	12.889	(0.843)	282215	10.0000	10
42 Toluene	92	13.224	13.208	(0.864)	592507	10.0000	10
46 Tetrachloroethene	166	14.544	14.513	(0.950)	485819	10.0000	9.8
* 47 Chlorobenzene-d5	117	15.303	15.272	(1.000)	1419731	10.0000	
48 Chlorobenzene	112	15.348	15.332	(1.003)	837826	10.0000	11
49 Ethylbenzene	91	15.819	15.803	(1.034)	1486580	10.0000	11
50 Xylene (m,p)	106	16.046	16.015	(1.049)	982974	20.0000	22
52 Styrene	104	16.502	16.470	(1.078)	636782	10.0000	11
53 1,1,2,2-Tetrachloroethane	83	16.623	16.592	(1.086)	680489	10.0000	11
54 Xylene (o)	106	16.638	16.622	(1.087)	471224	10.0000	11
59 1,3-Dichlorobenzene	146	19.324	19.293	(1.263)	691525	10.0000	10
60 1,4-Dichlorobenzene	146	19.431	19.399	(1.270)	659578	10.0000	10
61 1,2-Dichlorobenzene	146	19.977	19.946	(1.305)	647038	10.0000	10

STL Burlington

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: X.i
Lab File ID: ck010a.d
Analysis Type: AIR
Lab Sample ID: ASTD010
Method: /chem/X.i/Xsvr.p/xckato15.b/ato15.m

Injection Date: 21-NOV-2000 07:51
Init. Cal. Date(s): 20-NOV-2000 20-NOV-2000
Init. Cal. Times: 07:52 10:11
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
2 Chloromethane	0.76303	0.75805	0.010	0.65318	30.00000	Averaged
4 Vinyl Chloride	0.86137	0.92511	0.010	-7.40005	30.00000	Averaged
6 Bromomethane	0.84405	1.00434	0.010	-18.99013	30.00000	Averaged
7 Chloroethane	0.42954	0.46543	0.010	-8.35580	30.00000	Averaged
10 Trichlorofluoromethane	3.27563	3.07094	0.010	6.24873	30.00000	Averaged
13 Methylene Chloride	1.28183	1.20661	0.010	5.86818	30.00000	Averaged
18 1,1-Dichloroethane	1.99371	1.98176	0.100	0.59983	30.00000	Averaged
21 cis-1,2-Dichloroethene	1.65789	1.74073	0.010	-4.99684	30.00000	Averaged
24 Chloroform	2.45462	2.37185	0.010	3.37228	30.00000	Averaged
26 1,2-Dichloroethane	0.42724	0.38542	0.010	9.78667	30.00000	Averaged
27 1,1,1-Trichloroethane	0.41507	0.37608	0.010	9.39203	30.00000	Averaged
28 Benzene	0.56647	0.58701	0.010	-3.62531	30.00000	Averaged
29 Carbon Tetrachloride	0.06929	0.06214	0.010	10.31046	30.00000	Averaged
32 1,2-Dichloropropane	0.20703	0.21182	0.010	-2.31171	30.00000	Averaged
34 Trichloroethene	0.31352	0.31442	0.010	-0.28827	30.00000	Averaged
38 cis-1,3-Dichloropropene	0.21050	0.20532	0.010	2.45937	30.00000	Averaged
40 trans-1,3-Dichloropropene	0.17710	0.14999	0.010	15.30755	30.00000	Averaged
41 1,1,2-Trichloroethane	0.19947	0.19878	0.010	0.34716	30.00000	Averaged
42 Toluene	0.39725	0.41734	0.010	-5.05706	30.00000	Averaged
46 Tetrachloroethene	0.35027	0.34219	0.010	2.30557	30.00000	Averaged
48 Chlorobenzene	0.52348	0.59013	0.300	-12.73154	30.00000	Averaged
49 Ethylbenzene	0.93071	1.04709	0.010	-12.50435	30.00000	Averaged
50 Xylene (m,p)	0.31279	0.34618	0.010	-10.67594	30.00000	Averaged
52 Styrene	0.41244	0.44852	0.010	-8.74885	30.00000	Averaged
53 1,1,2,2-Tetrachloroethane	0.44061	0.47931	0.010	-8.78402	30.00000	Averaged
54 Xylene (o)	0.30009	0.33191	0.010	-10.60531	30.00000	Averaged
59 1,3-Dichlorobenzene	0.48286	0.48708	0.010	-0.87334	30.00000	Averaged
60 1,4-Dichlorobenzene	0.46068	0.46458	0.010	-0.84750	30.00000	Averaged
61 1,2-Dichlorobenzene	0.43809	0.45575	0.010	-4.02946	30.00000	Averaged

SEVERN
TRENT
SERVICES

Severn Trent Laboratories, Inc.

METHOD TO-14A
VOLATILE ORGANIC ANALYSIS

RAW QC DATA

Data File: /chem/X.i/Xsvr.p/xckto15.b/ck002p.d

Date : 20-NOV-2000 07:24

Client ID: XBFB001

Instrument: X.i

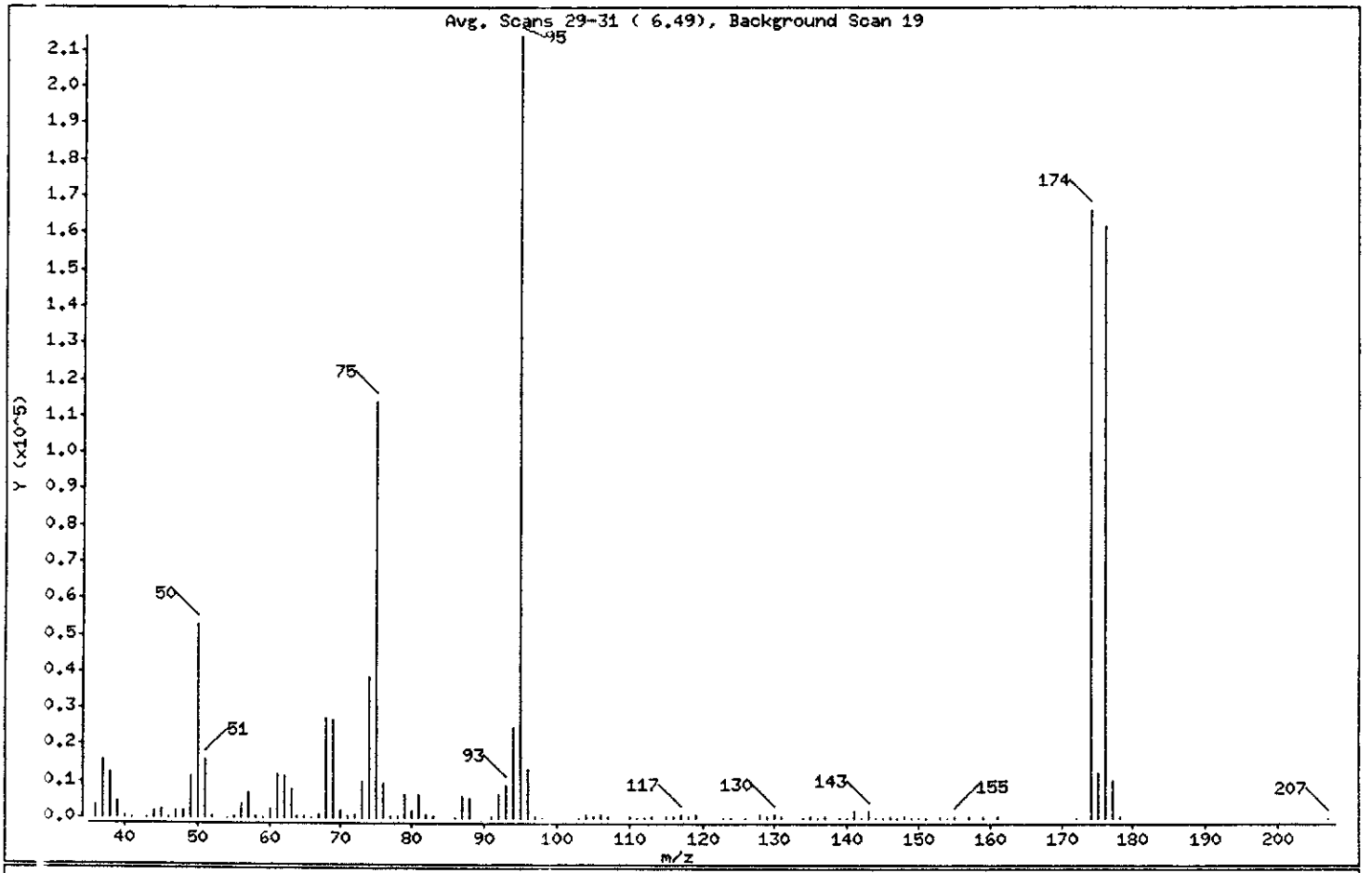
Sample Info: XBFB001

Operator: GMH

Column phase: DB-1

Column diameter: 0.32

$ 1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	24.62
75	30.00 - 66.00% of mass 95	53.26
96	5.00 - 9.00% of mass 95	6.22
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 120.00% of mass 95	77.68
175	4.00 - 9.00% of mass 174	5.71 (7.34)
176	93.00 - 101.00% of mass 174	75.50 (97.20)
177	5.00 - 9.00% of mass 176	4.79 (6.34)

Data File: /chem/X.i/Xsvr.p/xckto15.b/ck002p.d

Date : 20-NOV-2000 07:24

Client ID: XBFB001

Instrument: X.i

Sample Info: XBFB001

Operator: GMM

Column phase: DB-1

Column diameter: 0.32

Data File: ck002p.d

Spectrum: Avg. Scans 29-31 (6.49), Background Scan 19

Location of Maximum: 95.00

Number of points: 109

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	3301	66.00	137	98.00	53	140.00	72
37.00	15614	67.00	845	99.00	53	141.00	1953
38.00	12392	68.00	27096	103.00	170	142.00	222
39.00	4442	69.00	26600	104.00	918	143.00	2134
40.00	591	70.00	1800	105.00	265	144.00	62
41.00	17	71.00	320	106.00	912	145.00	155
43.00	173	72.00	1201	107.00	272	146.00	418
44.00	1914	73.00	9984	110.00	300	147.00	213
45.00	2677	74.00	38680	111.00	58	148.00	583
46.00	71	75.00	113952	112.00	92	149.00	229
47.00	2102	76.00	9336	113.00	274	150.00	232
48.00	1859	77.00	626	115.00	342	151.00	64
49.00	11525	78.00	737	116.00	682	153.00	254
50.00	52680	79.00	6485	117.00	1203	154.00	50
51.00	15698	80.00	1744	118.00	737	155.00	527
52.00	653	81.00	6330	119.00	818	157.00	425
54.00	83	82.00	1152	123.00	52	159.00	276
55.00	718	83.00	307	124.00	196	161.00	319
56.00	4133	86.00	200	126.00	51	172.00	183
57.00	7127	87.00	5769	128.00	747	174.00	166144
58.00	380	88.00	5260	129.00	377	175.00	12206
59.00	185	91.00	702	130.00	824	176.00	161536
60.00	2658	92.00	6234	131.00	299	177.00	10249
61.00	11696	93.00	9050	134.00	59	178.00	341
62.00	11150	94.00	24536	135.00	463	207.00	57
63.00	7998	95.00	213888	136.00	168		
64.00	731	96.00	13311	137.00	266		
65.00	255	97.00	395	139.00	131		

Data File: /chem/X.i/Xsvr.p/xckto15.b/ck002p.d

Date : 20-NOV-2000 07:24

Client ID: XBFB001

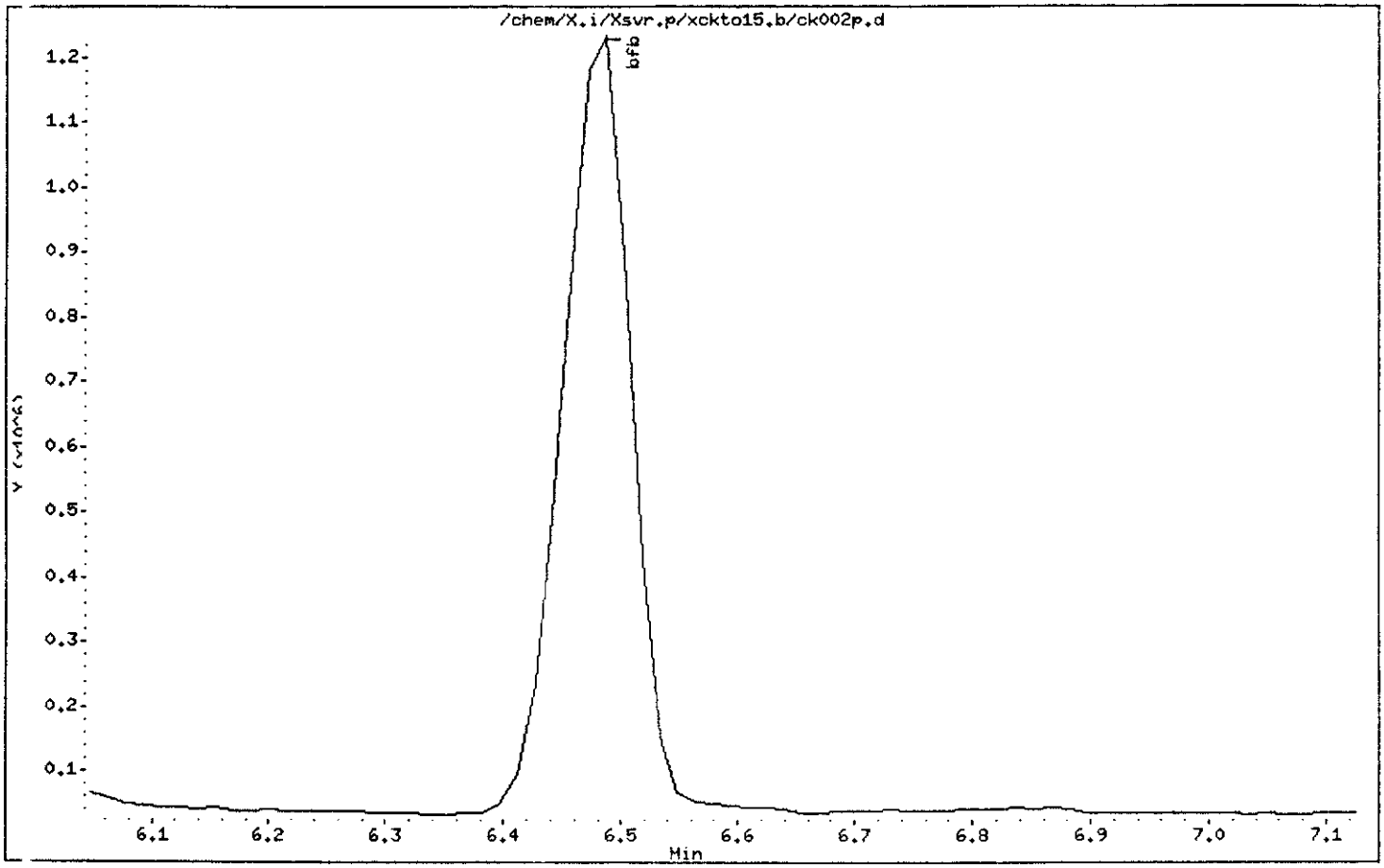
Instrument: X.i

Sample Info: XBFB001

Operator: GMM

Column phase: DB-1

Column diameter: 0.32



Data File: /chem/X.i/Xsvr.p/xckato15.b/ck003p.d

Date : 21-NOV-2000 07:25

Client ID: XBFB003

Instrument: X.i

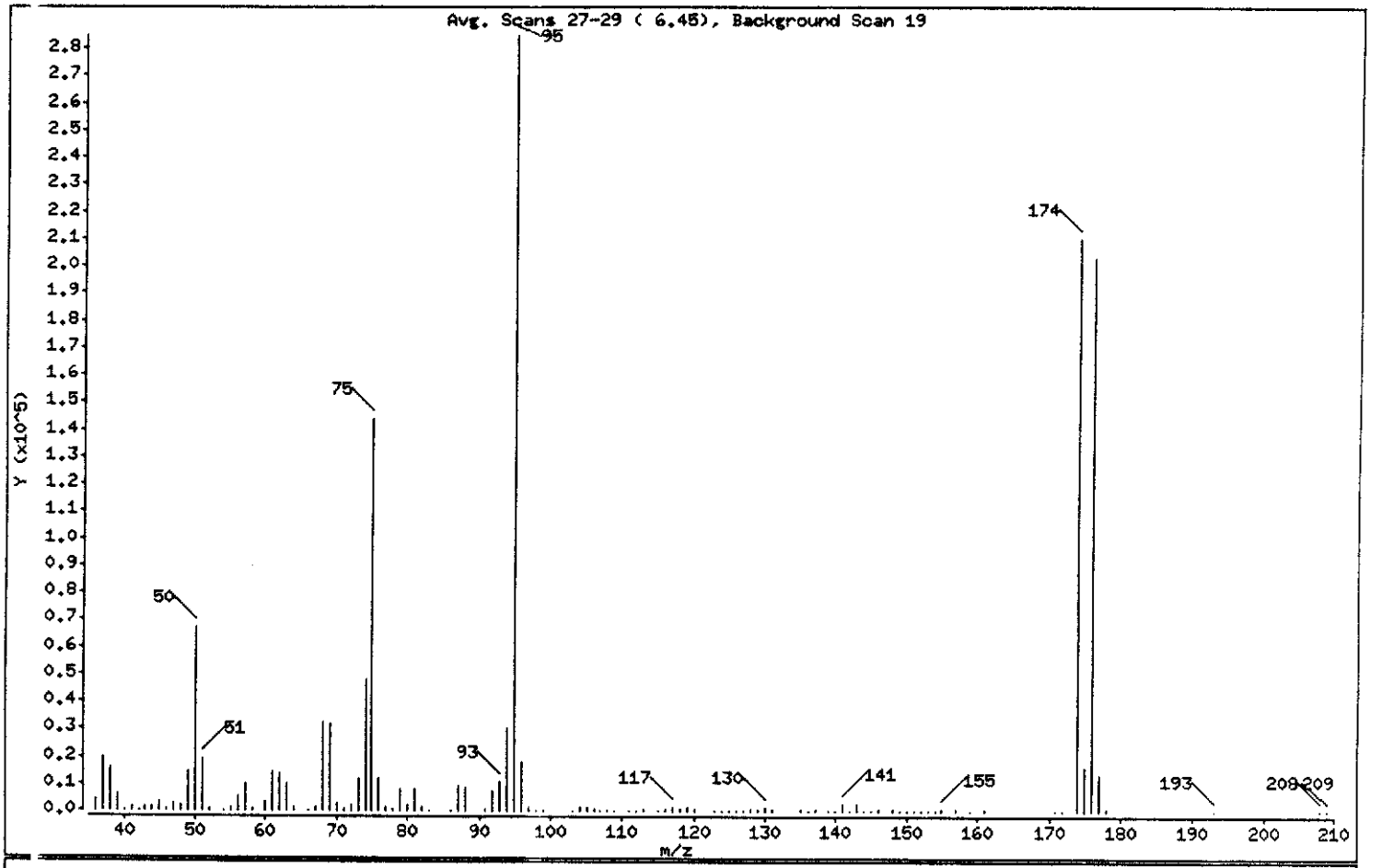
Sample Info: XBFB003

Operator: GHM

Column phase: DB-1

Column diameter: 0.32

* 1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	23.61
75	30.00 - 66.00% of mass 95	50.48
96	5.00 - 9.00% of mass 95	6.32
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 120.00% of mass 95	73.85
175	4.00 - 9.00% of mass 174	5.49 (7.44)
176	93.00 - 101.00% of mass 174	71.31 (96.56)
177	5.00 - 9.00% of mass 176	4.49 (6.30)

Data File: /chem/X.i/Xsvr.p/xckato15.b/ck003p.d

Date : 21-NOV-2000 07:25

Client ID: XBFB003 Instrument: X.i

Sample Info: XBFB003

Operator: GHH

Column phase: DB-1 Column diameter: 0.32

Data File: ck003p.d

Spectrum: Avg. Scans 27-29 (6.45), Background Scan 19

Location of Maximum: 95.00

Number of points: 114

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	3867	68.00	32368	104.00	1052	141.00	2603
37.00	19464	69.00	31280	105.00	1404	142.00	322
38.00	15703	70.00	2382	106.00	942	143.00	2413
39.00	6008	71.00	974	107.00	279	144.00	120
40.00	29	72.00	1754	108.00	71	145.00	225
41.00	1139	73.00	11965	109.00	210	146.00	364
42.00	231	74.00	47736	111.00	147	148.00	619
43.00	1162	75.00	143616	112.00	305	149.00	232
44.00	1481	76.00	11525	113.00	507	150.00	275
45.00	3169	77.00	1263	115.00	320	151.00	62
46.00	353	78.00	611	116.00	901	152.00	53
47.00	2670	79.00	7603	117.00	1265	153.00	144
48.00	2206	80.00	2041	118.00	847	154.00	121
49.00	14630	81.00	7601	119.00	988	155.00	523
50.00	67208	82.00	1345	120.00	409	157.00	499
51.00	19184	83.00	225	123.00	118	159.00	322
52.00	853	86.00	238	124.00	153	161.00	383
54.00	320	87.00	8885	125.00	312	171.00	65
55.00	1571	88.00	8624	126.00	276	172.00	163
56.00	5100	91.00	617	127.00	128	174.00	210176
57.00	9774	92.00	7326	128.00	903	175.00	15635
58.00	337	93.00	10735	129.00	471	176.00	202944
60.00	3085	94.00	30200	130.00	992	177.00	12790
61.00	14511	95.00	284608	131.00	330	178.00	392
62.00	13715	96.00	17992	135.00	497	193.00	138
63.00	9799	97.00	1195	136.00	58	208.00	60
64.00	1105	98.00	48	137.00	386	209.00	56
66.00	131	99.00	66	139.00	5		
67.00	1143	103.00	135	140.00	186		

Data File: /chem/X.i/Xsvr.p/xckato15.b/ck003p.d

Date : 21-NOV-2000 07:25

Client ID: XBFB003

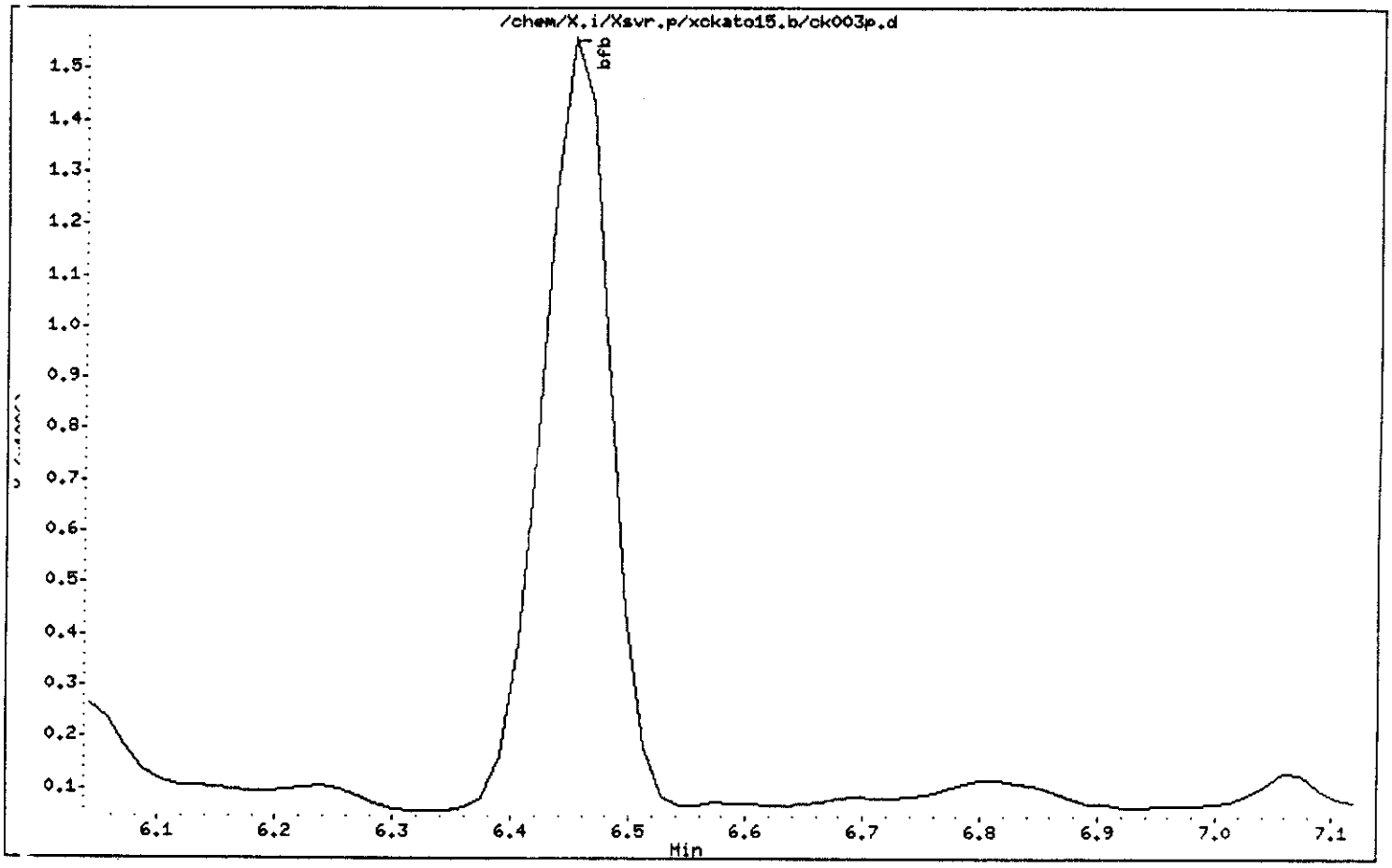
Instrument: X.i

Sample Info: XBFB003

Operator: GMM

Column phase: DB-1

Column diameter: 0.32



FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

STLVT SAMPLE NO.

ABLKG7

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80694

Matrix: (soil/water) AIR Lab Sample ID: ABLKG7

Sample wt/vol: 200 (g/mL) ML Lab File ID: CKB001A

Level: (low/med) LOW Date Received:

% Moisture: not dec. _____ Date Analyzed: 11/21/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-09-2	Methylene Chloride	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (m,p)	0.50	U
100-42-5	Styrene	0.50	U
95-47-6	Xylene (o)	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

STLVT SAMPLE NO.

ABLKG7

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80694

Matrix: (soil/water) AIR Lab Sample ID: ABLKG7

Sample wt/vol: 200 (g/mL) ML Lab File ID: CKB001A

Level: (low/med) LOW Date Received:

% Moisture: not dec. _____ Date Analyzed: 11/21/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) ppbv

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	17.72	5.0	J
2.	UNKNOWN	17.76	13	J
3.				
4.				
5.				
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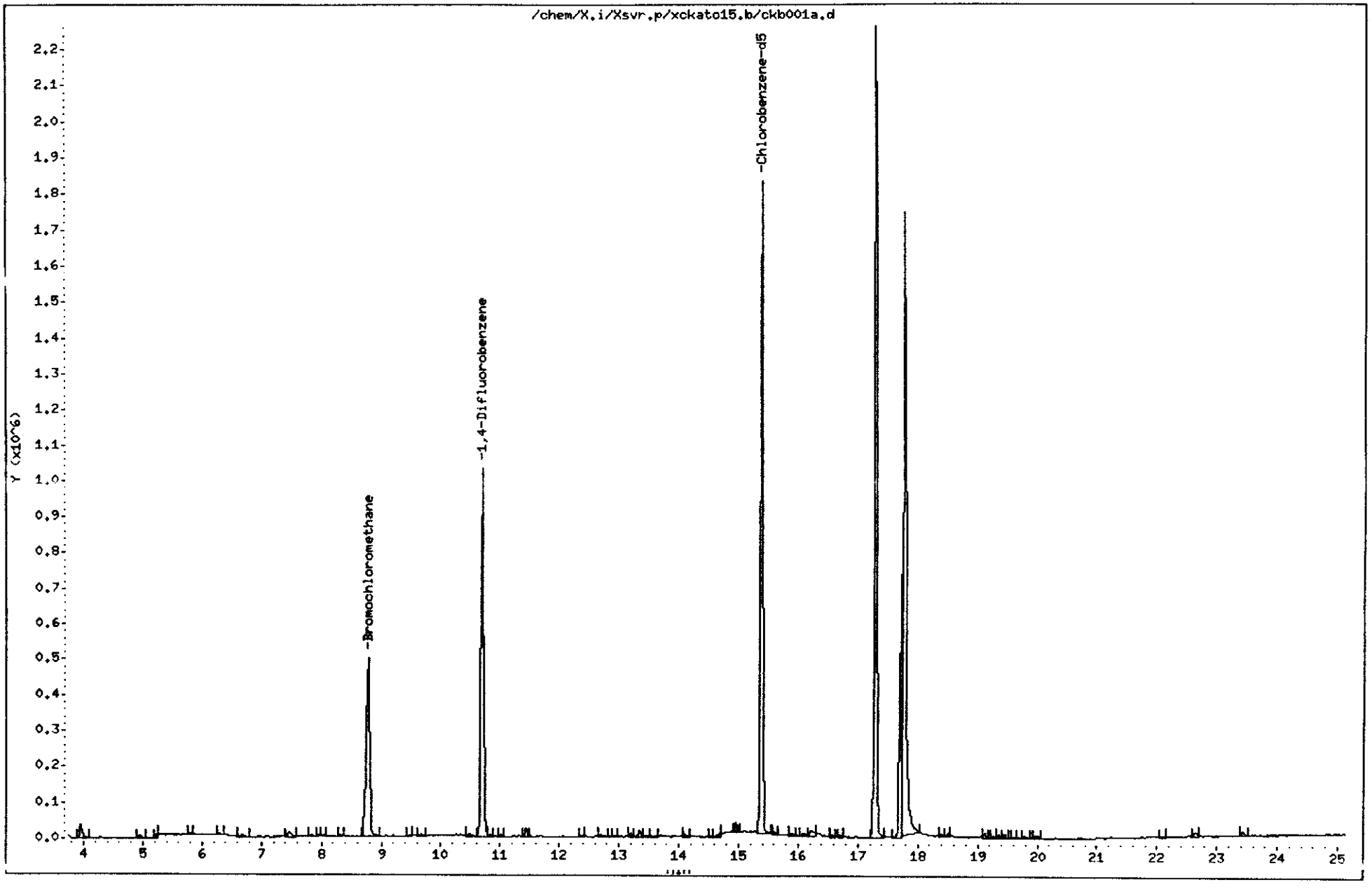
FORM I VOA-TIC

Data File: /chem/X.i/Xsvr.p/xckato15.b/ckb001a.d
Date : 21-NOV-2000 09:58
Client ID: ABLKG7
Sample Info: ABLKG7;ABLKG7;;1121G7
Purge Volume: 200.0
Column phase: DB-1

Instrument: X.i
Operator: GMH
Column diameter: 0.35



0106

STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/X.i/Xsvr.p/xckato15.b/ckb001a.d
Lab Smp Id: ABLKG7 Client Smp ID: ABLKG7
Inj Date : 21-NOV-2000 09:58
Operator : GMM Inst ID: X.i
Smp Info : ABLKG7;ABLKG7;;1121G7
Misc Info :
Comment :
Method : /chem/X.i/Xsvr.p/xckato15.b/ato15.m
Meth Date : 28-Nov-2000 14:00 mim Quant Type: ISTD
Cal Date : 20-NOV-2000 10:11 Cal File: ck040.d
Als bottle: 2 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA2.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
2 Chloromethane	50	Compound Not Detected.					
4 Vinyl Chloride	62	Compound Not Detected.					
6 Bromomethane	94	Compound Not Detected.					
7 Chloroethane	64	Compound Not Detected.					
10 Trichlorofluoromethane	101	Compound Not Detected.					
13 Methylene Chloride	49	Compound Not Detected.					
18 1,1-Dichloroethane	63	Compound Not Detected.					
21 cis-1,2-Dichloroethene	61	Compound Not Detected.					
* 22 Bromochloromethane	128	8.777	8.473	(1.000)	249968	10.0000	
24 Chloroform	83	Compound Not Detected.					
26 1,2-Dichloroethane	62	Compound Not Detected.					
27 1,1,1-Trichloroethane	97	Compound Not Detected.					
28 Benzene	78	Compound Not Detected.					
29 Carbon Tetrachloride	117	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
* 31 1,4-Difluorobenzene	114	10.689	10.461	(1.000)	1235493	10.0000	
32 1,2-Dichloropropane	63	Compound Not Detected.					
34 Trichloroethene	95	Compound Not Detected.					
38 cis-1,3-Dichloropropene	75	Compound Not Detected.					
40 trans-1,3-Dichloropropene	75	Compound Not Detected.					
41 1,1,2-Trichloroethane	83	Compound Not Detected.					
42 Toluene	92	Compound Not Detected.					
46 Tetrachloroethene	166	Compound Not Detected.					
* 47 Chlorobenzene-d5	117	15.378	15.272	(1.000)	1322404	10.0000	
48 Chlorobenzene	112	Compound Not Detected.					
49 Ethylbenzene	91	Compound Not Detected.					
50 Xylene (m,p)	106	Compound Not Detected.					
52 Styrene	104	Compound Not Detected.					
53 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
54 Xylene (o)	106	Compound Not Detected.					
59 1,3-Dichlorobenzene	146	Compound Not Detected.					
60 1,4-Dichlorobenzene	146	Compound Not Detected.					
61 1,2-Dichlorobenzene	146	Compound Not Detected.					

STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/X.i/Xsvr.p/xckato15.b/ckb001a.d
Lab Smp Id: ABLKG7 Client Smp ID: ABLKG7
Inj Date : 21-NOV-2000 09:58
Operator : GMM Inst ID: X.i
Smp Info : ABLKG7;ABLKG7;;1121G7
Misc Info :
Comment :
Method : /chem/X.i/Xsvr.p/xckato15.b/ato15.m
Meth Date : 28-Nov-2000 13:48 mim Quant Type: ISTD
Cal Date : 20-NOV-2000 10:11 Cal File: ck040.d
Als bottle: 2 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
* 47 Chlorobenzene-d5	15.378	4626411	10.000

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ppbv)	FINAL(ppbv)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
17.715	2295935	4.96266883	5.0	0		0	47
Unknown				CAS #:			
17.761	5853441	12.6522260	13	0		0	47

Data File: /chem/X.i/Xsvr.p/xckato15.b/ckb001a.d

Date : 21-NOV-2000 09:58

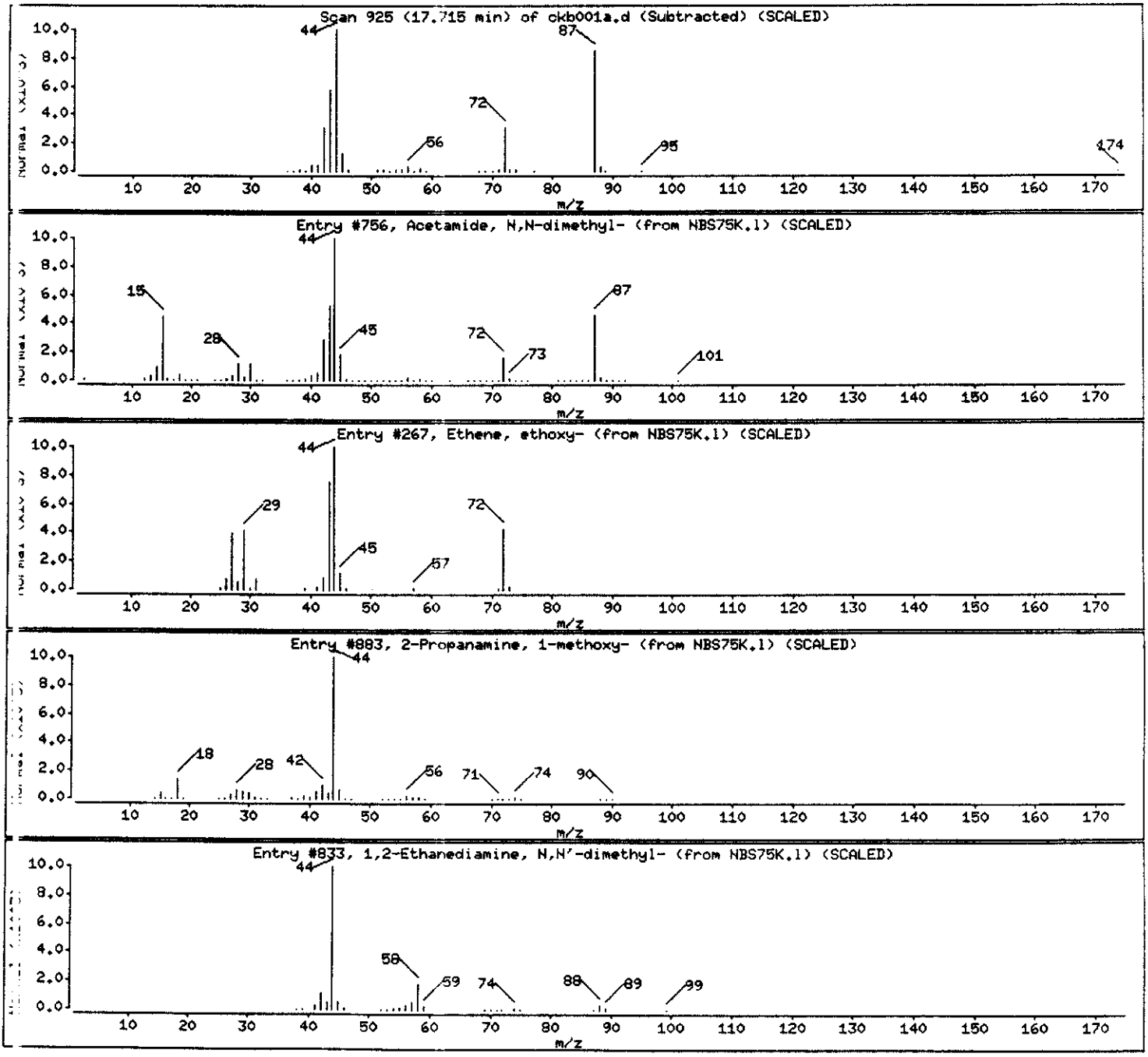
Client ID: ABLKG7 Instrument: X.i

Sample Info: ABLKG7;ABLKG7;;1121G7

Purge Volume: 200.0 Operator: GHM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Acetamide, N,N-dimethyl-	127-19-5	NBS75K.l	756	78	C4H9NO	87
Ethene, ethoxy-	109-92-2	NBS75K.l	267	43	C4H8O	72
2-Propanamine, 1-methoxy-	37143-54-7	NBS75K.l	883	35	C4H11NO	89
1,2-Ethanediamine, N,N'-dimethyl-	110-70-3	NBS75K.l	833	25	C4H12N2	88



Data File: /chem/X.i/Xsvr.p/xckato15.b/ckb001a.d

Date : 21-NOV-2000 09:58

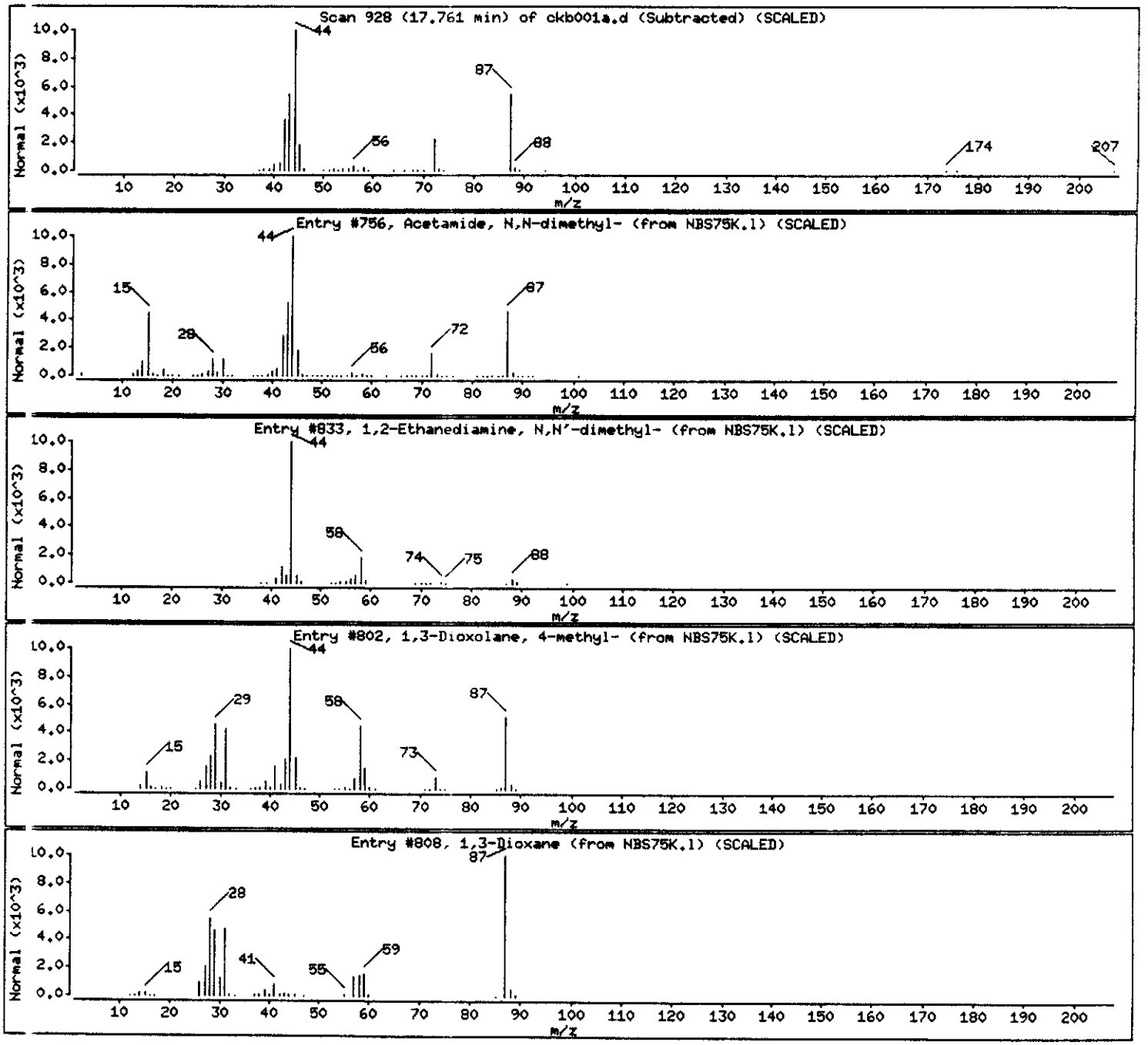
Client ID: ABLKG7 Instrument: X.i

Sample Info: ABLKG7;ABLKG7;;1121G7

Purge Volume: 200.0 Operator: GMH

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Acetamide, N,N-dimethyl-	127-19-5	NBS75K.l	756	91	C4H9NO	87
1,2-Ethanediamine, N,N'-dimethyl-	110-70-3	NBS75K.l	833	37	C4H12N2	88
1,3-Dioxolane, 4-methyl-	1072-47-5	NBS75K.l	802	36	C4H8O2	88
1,3-Dioxane	505-22-6	NBS75K.l	808	9	C4H8O2	88



FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

STLVT SAMPLE NO.

H6_ICVLCS

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80694

Matrix: (soil/water) AIR Lab Sample ID: H6_ICVLCS

Sample wt/vol: 200 (g/mL) ML Lab File ID: CK010Q

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/20/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

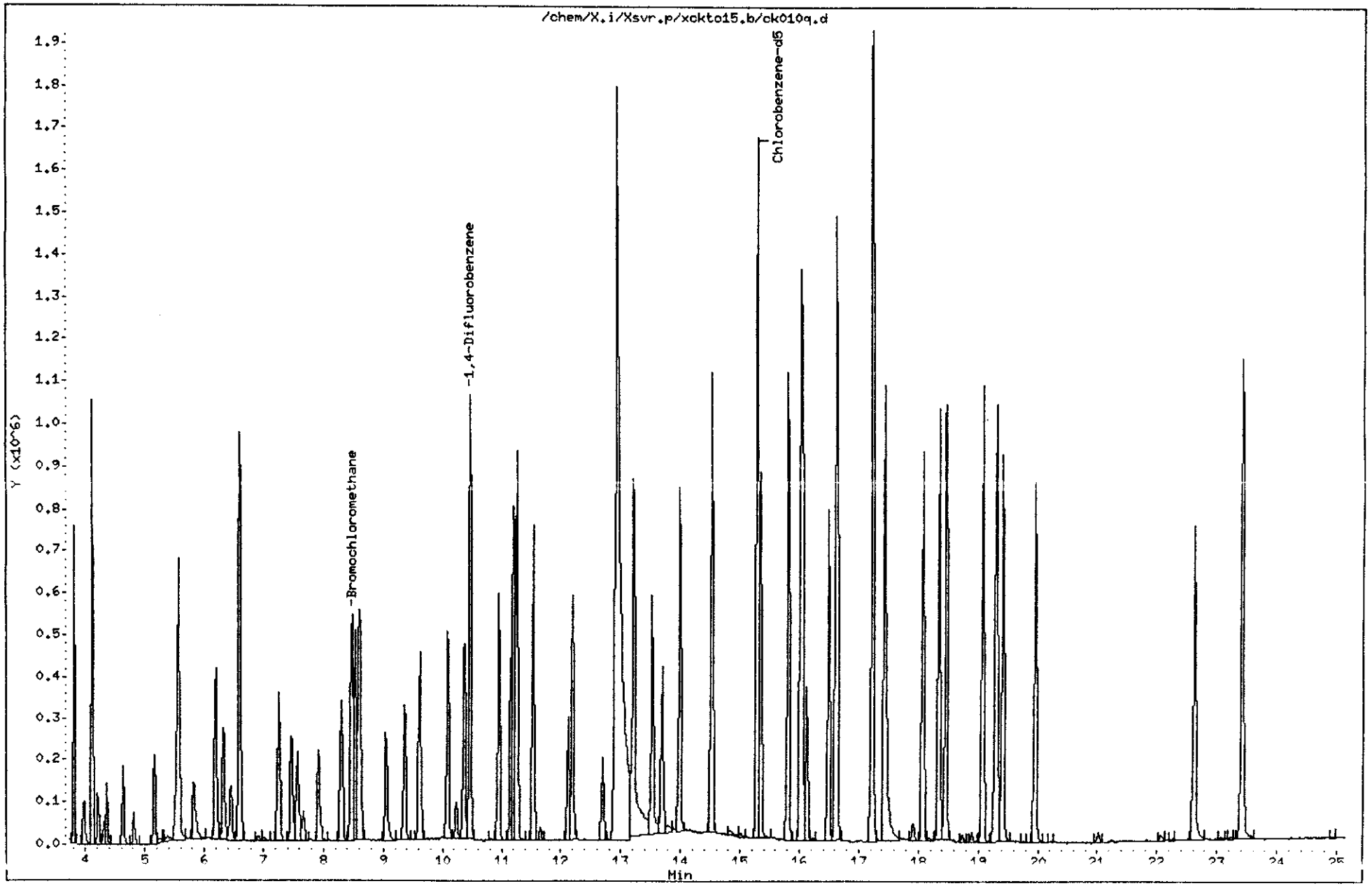
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	9.5	
75-01-4	Vinyl Chloride	9.0	
74-83-9	Bromomethane	8.4	
75-00-3	Chloroethane	9.0	
75-69-4	Trichlorofluoromethane	9.5	
75-09-2	Methylene Chloride	9.0	
75-34-3	1,1-Dichloroethane	9.3	
156-59-2	cis-1,2-Dichloroethene	9.6	
67-66-3	Chloroform	9.8	
71-55-6	1,1,1-Trichloroethane	9.9	
56-23-5	Carbon Tetrachloride	9.5	
71-43-2	Benzene	10	
107-06-2	1,2-Dichloroethane	9.9	
79-01-6	Trichloroethene	10	
78-87-5	1,2-Dichloropropane	10	
10061-01-5	cis-1,3-Dichloropropene	9.4	
108-88-3	Toluene	9.2	
10061-02-6	trans-1,3-Dichloropropene	8.5	
79-00-5	1,1,2-Trichloroethane	9.4	
127-18-4	Tetrachloroethene	10	
108-90-7	Chlorobenzene	10	
100-41-4	Ethylbenzene	10	
1330-20-7	Xylene (m,p)	20	
100-42-5	Styrene	10	
95-47-6	Xylene (o)	10	
79-34-5	1,1,2,2-Tetrachloroethane	11	
541-73-1	1,3-Dichlorobenzene	10	
106-46-7	1,4-Dichlorobenzene	10	
95-50-1	1,2-Dichlorobenzene	10	

Data File: /chem/X.i/Xsvr.p/xckto15.b/ck010q.d
Date : 20-NOV-2000 10:57
Client ID: H6_ICVLCS
Sample Info: H6_ICV;H6_ICV
Purge Volume: 200.0
Column phase: DB-1

Instrument: X.i

Operator: GMM
Column diameter: 0.35



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STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/X.i/Xsvr.p/xckto15.b/ck010q.d
Lab Smp Id: H6_ICVLCS Client Smp ID: H6_ICVLCS
Inj Date : 20-NOV-2000 10:57
Operator : GMM Inst ID: X.i
Smp Info : H6_ICV;H6_ICV
Misc Info :
Comment :
Method : /chem/X.i/Xsvr.p/xckto15.b/ato15.m
Meth Date : 28-Nov-2000 12:07 bes Quant Type: ISTD
Cal Date : 20-NOV-2000 10:11 Cal File: ck040.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
1 Dichlorodifluoromethane	85	3.815	3.828	(0.450)	711574	8.98216	9.0
2 Chloromethane	50	3.988	3.986	(0.471)	147284	9.52663	9.5
3 Dichlorotetrafluoroethane	85	4.118	4.116	(0.486)	622931	9.07001	9.1
4 Vinyl Chloride	62	4.204	4.217	(0.496)	157943	9.04979	9.0
5 1,3-Butadiene	54	4.363	4.361	(0.515)	95607	8.33453	8.3
6 Bromomethane	94	4.637	4.649	(0.547)	142852	8.35303	8.4
7 Chloroethane	64	4.810	4.822	(0.568)	78524	9.02243	9.0
8 Bromoethene	106	5.156	5.168	(0.608)	190767	9.66772	9.7
9 Acetone	43	5.515	5.529	(0.651)	421983	8.81814	8.8
10 Trichlorofluoromethane	101	5.561	5.574	(0.656)	628671	9.47230	9.5
11 Isopropyl Alcohol	45	5.819	5.832	(0.687)	305855	8.96730	9.0
12 1,1-Dichloroethene	96	6.198	6.197	(0.731)	172111	9.55752	9.6
13 Methylene Chloride	49	6.319	6.333	(0.746)	235255	9.05805	9.0
14 3-Chloropropene	41	6.456	6.455	(0.762)	113688	8.58900	8.6

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
	15 Carbon Disulfide	76	6.577	6.591	(0.776)	448014	9.32618	9.3
	16 Freon TF	101	6.593	6.606	(0.778)	417681	9.62299	9.6
	17 trans-1,2-Dichloroethene	61	7.260	7.259	(0.857)	312813	9.31736	9.3
	18 1,1-Dichloroethane	63	7.458	7.471	(0.880)	374184	9.26293	9.3
	19 Methyl tert-Butyl Ether	73	7.564	7.578	(0.893)	276028	7.75151	7.8
	20 Methyl Ethyl Ketone	43	7.913	7.927	(0.934)	428915	9.12531	9.1
	21 cis-1,2-Dichloroethene	61	8.292	8.306	(0.978)	323161	9.62033	9.6
*	22 Bromochloromethane	128	8.474	8.473	(1.000)	202616	10.0000	
	23 n-Hexane	57	8.520	8.534	(1.005)	247544	9.13771	9.1
	24 Chloroform	83	8.611	8.610	(1.016)	486509	9.78210	9.8
	25 Tetrahydrofuran	42	9.036	9.050	(0.864)	213741	10.0680	10
	26 1,2-Dichloroethane	62	9.355	9.353	(0.894)	407254	9.93672	9.9
	27 1,1,1-Trichloroethane	97	9.613	9.611	(0.919)	393837	9.89109	9.9
	28 Benzene	78	10.083	10.097	(0.964)	548531	10.0941	10
	29 Carbon Tetrachloride	117	10.235	10.233	(0.978)	63250	9.51604	9.5
	30 Cyclohexane	56	10.371	10.370	(0.991)	269341	9.92311	9.9
*	31 1,4-Difluorobenzene	114	10.462	10.461	(1.000)	959298	10.0000	
	32 1,2-Dichloropropane	63	10.948	10.947	(1.046)	199935	10.0670	10
	33 Bromodichloromethane	83	11.145	11.144	(1.065)	352899	10.5825	10
	34 Trichloroethene	95	11.191	11.189	(1.070)	310929	10.3383	10
	35 1,4-Dioxane	88	11.221	11.220	(1.073)	132477	10.8527	11
	36 2,2,4-Trimethylpentane	57	11.251	11.250	(1.075)	927367	10.0344	10
	37 n-Heptane	43	11.525	11.523	(1.102)	363695	9.74395	9.7
	38 cis-1,3-Dichloropropene	75	12.116	12.115	(1.158)	190527	9.43519	9.4
	39 Methyl Isobutyl Ketone	43	12.192	12.176	(1.165)	547779	9.55728	9.6
	40 trans-1,3-Dichloropropene	75	12.708	12.692	(1.215)	144692	8.51670	8.5
	41 1,1,2-Trichloroethane	83	12.906	12.889	(0.844)	218481	9.45170	9.4
	42 Toluene	92	13.224	13.208	(0.865)	423299	9.19530	9.2
	43 Methyl Butyl Ketone	43	13.528	13.511	(0.885)	547765	8.75183	8.8
	44 Dibromochloromethane	129	13.695	13.678	(0.896)	266826	9.34190	9.3
	45 1,2-Dibromoethane	107	13.983	13.982	(0.915)	782383	9.34636	9.3
	46 Tetrachloroethene	166	14.529	14.513	(0.950)	422502	10.4090	10
*	47 Chlorobenzene-d5	117	15.288	15.272	(1.000)	1158829	10.0000	
	48 Chlorobenzene	112	15.349	15.332	(1.004)	627370	10.3419	10
	49 Ethylbenzene	91	15.804	15.803	(1.034)	1111585	10.3065	10
	50 Xylene (m,p)	106	16.032	16.015	(1.049)	735168	20.2822	20
	51 Bromoform	173	16.123	16.106	(1.055)	240448	9.38044	9.4
	52 Styrene	104	16.487	16.470	(1.078)	493249	10.3202	10
	53 1,1,2,2-Tetrachloroethane	83	16.608	16.592	(1.086)	554394	10.8580	11
	54 Xylene (o)	106	16.639	16.622	(1.088)	364831	10.4912	10
	55 2-Chlorotoluene	91	18.065	18.064	(1.182)	812633	9.18393	9.2
	56 4-Ethyltoluene	105	18.338	18.337	(1.200)	923384	8.79843	8.8
	57 1,3,5-Trimethylbenzene	105	18.460	18.443	(1.207)	904671	10.2201	10
	58 1,2,4-Trimethylbenzene	105	19.067	19.065	(1.247)	890970	10.4771	10
	59 1,3-Dichlorobenzene	146	19.294	19.293	(1.262)	579591	10.3580	10
	60 1,4-Dichlorobenzene	146	19.401	19.399	(1.269)	552075	10.3415	10
	61 1,2-Dichlorobenzene	146	19.947	19.946	(1.305)	528839	10.4169	10

Com ›ounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
›2 1,2,4-Trichlorobenzene	180	22.618	22.617	(1.479)	345776	12.1059	12
›3 Hexachlorobutadiene	225	23.422	23.406	(1.532)	363172	12.1375	12

STL Burlington

RECOVERY REPORT

Client Name: STLVT
Sample Matrix: GAS
Lab Smp Id: H6_ICVLCS
Level: LOW
Data Type: MS DATA
SpikeList File: all.spk
Sublist File: all.sub
Method File: /chem/X.i/Xsvr.p/xckto15.b/ato15.m
Misc Info:

Client SDG: xckto15
Fraction: VOA
Client Smp ID: H6_ICVLCS
Operator: GMM
SampleType: LCS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ppbv	CONC RECOVERED ppbv	% RECOVERED	LIMITS
1 Dichlorodifluorome	10	9.0	89.82	70-130
2 Chloromethane	10	9.5	95.27	70-130
3 Dichlorotetrafluor	10	9.1	90.70	70-130
4 Vinyl Chloride	10	9.0	90.50	70-130
5 1,3-Butadiene	10	8.3	83.35	70-130
6 Bromomethane	10	8.4	83.53	70-130
7 Chloroethane	10	9.0	90.22	70-130
8 Bromoethene	10	9.7	96.68	70-130
9 Acetone	10	8.8	88.18	70-130
10 Trichlorofluoromet	10	9.5	94.72	70-130
11 Isopropyl Alcohol	10	9.0	89.67	70-130
12 1,1-Dichloroethene	10	9.6	95.58	70-130
13 Methylene Chloride	10	9.0	90.58	70-130
14 3-Chloropropene	10	8.6	85.89	70-130
15 Carbon Disulfide	10	9.3	93.26	70-130
16 Freon TF	10	9.6	96.23	70-130
17 trans-1,2-Dichloro	10	9.3	93.17	70-130
18 1,1-Dichloroethane	10	9.3	92.63	70-130
19 Methyl tert-Butyl	10	7.8	77.52	70-130
20 Methyl Ethyl Keton	10	9.1	91.25	70-130
21 cis-1,2-Dichloroet	10	9.6	96.20	70-130
23 n-Hexane	10	9.1	91.38	70-130
24 Chloroform	10	9.8	97.82	70-130
25 Tetrahydrofuran	10	10	100.68	70-130
26 1,2-Dichloroethane	10	9.9	99.37	70-130
27 1,1,1-Trichloroeth	10	9.9	98.91	70-130
28 Benzene	10	10	100.94	70-130
29 Carbon Tetrachlori	10	9.5	95.16	70-130
30 Cyclohexane	10	9.9	99.23	70-130
32 1,2-Dichloropropan	10	10	100.67	70-130
33 Bromodichlorometha	10	10	105.83	70-130
34 Trichloroethene	10	10	103.38	70-130
35 1,4-Dioxane	10	11	108.53	70-130

SPIKE COMPOUND	CONC ADDED ppbv	CONC RECOVERED ppbv	% RECOVERED	LIMITS
36 2,2,4-Trimethylpen	10	10	100.34	70-130
37 n-Heptane	10	9.7	97.44	70-130
38 cis-1,3-Dichloropr	10	9.4	94.35	70-130
40 trans-1,3-Dichloro	10	8.5	85.17	70-130
39 Methyl Isobutyl Ke	10	9.6	95.57	70-130
41 1,1,2-Trichloroeth	10	9.4	94.52	70-130
42 Toluene	10	9.2	91.95	70-130
43 Methyl Butyl Keton	10	8.8	87.52	70-130
44 Dibromochlorometha	10	9.3	93.42	70-130
45 1,2-Dibromoethane	10	9.3	93.46	70-130
46 Tetrachloroethene	10	10	104.09	70-130
48 Chlorobenzene	10	10	103.42	70-130
49 Ethylbenzene	10	10	103.06	70-130
50 Xylene (m,p)	20	20	101.41	70-130
51 Bromoform	10	9.4	93.80	70-130
52 Styrene	10	10	103.20	70-130
53 1,1,2,2-Tetrachlor	10	11	108.58	70-130
54 Xylene (o)	10	10	104.91	70-130
55 2-Chlorotoluene	10	9.2	91.84	70-130
56 4-Ethyltoluene	10	8.8	87.98	70-130
57 1,3,5-Trimethylben	10	10	102.20	70-130
58 1,2,4-Trimethylben	10	10	104.77	70-130
59 1,3-Dichlorobenzen	10	10	103.58	70-130
60 1,4-Dichlorobenzen	10	10	103.42	70-130
61 1,2-Dichlorobenzen	10	10	104.17	70-130
62 1,2,4-Trichloroben	10	12	121.06	70-130
63 Hexachlorobutadien	10	12	121.38	70-130

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

STLVT SAMPLE NO.

G7_LCS

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80694

Matrix: (soil/water) AIR Lab Sample ID: G7_LCS

Sample wt/vol: 200 (g/mL) ML Lab File ID: CK010AQ

Level: (low/med) LOW Date Received:

% Moisture: not dec. _____ Date Analyzed: 11/21/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	12	
75-01-4	Vinyl Chloride	12	
74-83-9	Bromomethane	12	
75-00-3	Chloroethane	11	
75-69-4	Trichlorofluoromethane	10	
75-09-2	Methylene Chloride	10	
75-34-3	1,1-Dichloroethane	10	
156-59-2	cis-1,2-Dichloroethene	10	
67-66-3	Chloroform	9.8	
71-55-6	1,1,1-Trichloroethane	8.6	
56-23-5	Carbon Tetrachloride	8.4	
71-43-2	Benzene	11	
107-06-2	1,2-Dichloroethane	9.1	
79-01-6	Trichloroethene	10	
78-87-5	1,2-Dichloropropane	11	
10061-01-5	cis-1,3-Dichloropropene	9.7	
108-88-3	Toluene	11	
10061-02-6	trans-1,3-Dichloropropene	8.7	
79-00-5	1,1,2-Trichloroethane	9.9	
127-18-4	Tetrachloroethene	11	
108-90-7	Chlorobenzene	11	
100-41-4	Ethylbenzene	11	
1330-20-7	Xylene (m,p)	22	
100-42-5	Styrene	12	
95-47-6	Xylene (o)	11	
79-34-5	1,1,2,2-Tetrachloroethane	11	
541-73-1	1,3-Dichlorobenzene	11	
106-46-7	1,4-Dichlorobenzene	11	
95-50-1	1,2-Dichlorobenzene	12	

Data File: /chem/X.i/Xsvr.p/xckato15.b/ck010aq.d

Date : 21-NOV-2000 08:26

Client ID: G7_LCS

Instrument: X.i

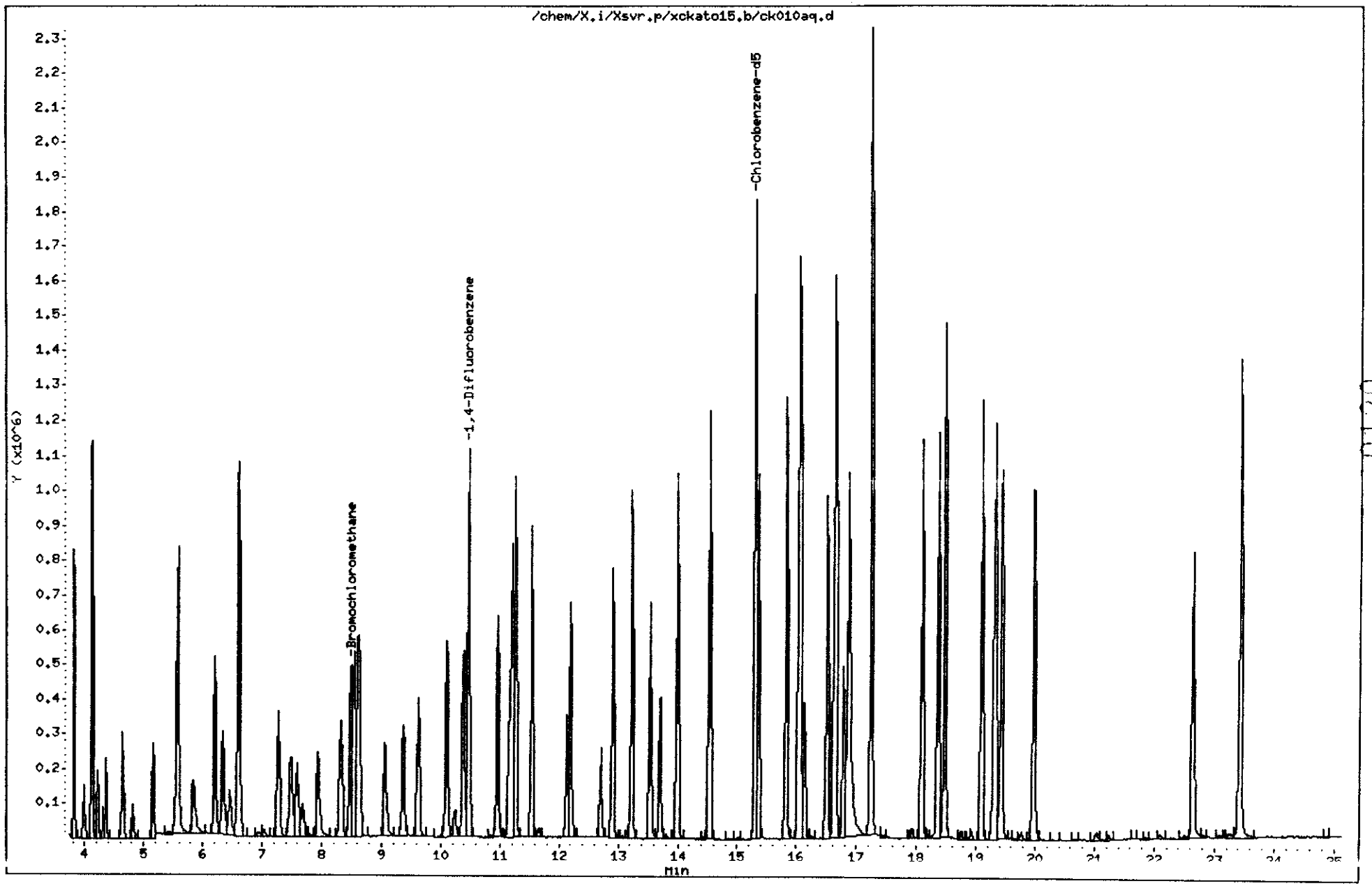
Sample Info: G7_LCS;G7_LCS

Purge Volume: 200.0

Operator: GMM

Column phase: DB-1

Column diameter: 0.35



0120

STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/X.i/Xsvr.p/xckato15.b/ck010aq.d
Lab Smp Id: G7_LCS Client Smp ID: G7_LCS
Inj Date : 21-NOV-2000 08:26
Operator : GMM Inst ID: X.i
Smp Info : G7_LCS;G7_LCS
Misc Info :
Comment :
Method : /chem/X.i/Xsvr.p/xckato15.b/ato15.m
Meth Date : 28-Nov-2000 14:00 mim Quant Type: ISTD
Cal Date : 20-NOV-2000 10:11 Cal File: ck040.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA2.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cond Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
2 Chloromethane	50	3.987	3.986	(0.470)	191604	11.5562	12
4 Vinyl Chloride	62	4.218	4.217	(0.497)	217664	11.6293	12
6 Bromomethane	94	4.636	4.649	(0.546)	216505	11.8047	12
7 Chloroethane	64	4.809	4.822	(0.566)	106491	11.4094	11
10 Trichlorofluoromethane	101	5.576	5.574	(0.657)	715872	10.0576	10
13 Methylene Chloride	49	6.334	6.333	(0.746)	289169	10.3819	10
18 1,1-Dichloroethane	63	7.473	7.471	(0.880)	441767	10.1973	10
21 cis-1,2-Dichloroethene	61	8.307	8.306	(0.979)	373456	10.3667	10
* 22 Bromochloromethane	128	8.489	8.473	(1.000)	217293	10.0000	
24 Chloroform	83	8.626	8.610	(1.016)	525616	9.85457	9.8
26 1,2-Dichloroethane	62	9.370	9.353	(0.894)	433310	9.07639	9.1
27 1,1,1-Trichloroethane	97	9.627	9.611	(0.919)	398085	8.58302	8.6
28 Benzene	78	10.098	10.097	(0.964)	671470	10.6079	11
29 Carbon Tetrachloride	117	10.250	10.233	(0.978)	65314	8.43604	8.4

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
* 31 1,4-Difluorobenzene	114	10.477	10.461	(1.000)	1117421	10.0000	
32 1,2-Dichloropropane	63	10.963	10.947	(1.046)	246046	10.6357	11
34 Trichloroethene	95	11.206	11.189	(1.070)	349822	9.98550	10
38 cis-1,3-Dichloropropene	75	12.131	12.115	(1.158)	227846	9.68662	9.7
40 trans-1,3-Dichloropropene	75	12.708	12.692	(1.213)	172610	8.72227	8.7
41 1,1,2-Trichloroethane	83	12.905	12.889	(0.843)	257034	9.89337	9.9
42 Toluene	92	13.224	13.208	(0.864)	579004	11.1907	11
46 Tetrachloroethene	166	14.544	14.513	(0.950)	505996	11.0914	11
* 47 Chlorobenzene-d5	117	15.303	15.272	(1.000)	1302453	10.0000	
48 Chlorobenzene	112	15.364	15.332	(1.004)	769609	11.2877	11
49 Ethylbenzene	91	15.819	15.803	(1.034)	1368613	11.2903	11
50 Xylene (m,p)	106	16.047	16.015	(1.049)	901544	22.1295	22
52 Styrene	104	16.502	16.470	(1.078)	636574	11.8502	12
53 1,1,2,2-Tetrachloroethane	83	16.623	16.592	(1.086)	623287	10.8612	11
54 Xylene (o)	106	16.654	16.622	(1.088)	429986	11.0014	11
59 1,3-Dichlorobenzene	146	19.325	19.293	(1.263)	710074	11.2906	11
60 1,4-Dichlorobenzene	146	19.431	19.399	(1.270)	688480	11.4745	11
61 1,2-Dichlorobenzene	146	19.977	19.946	(1.305)	669185	11.7278	12

Report Date: 28-Nov-2000 14:00

STL Burlington

RECOVERY REPORT

Client Name: STLVT
Sample Matrix: GAS
Lab Smp Id: G7_LCS
Level: LOW
Data Type: MS DATA
SpikeList File: ACCANA2.spk
Sublist File: ACCANA2.sub
Method File: /chem/X.i/Xsvr.p/xckato15.b/ato15.m
Misc Info:

Client SDG: xckato15
Fraction: VOA
Client Smp ID: G7_LCS
Operator: GMM
SampleType: LCS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ppbv	CONC RECOVERED ppbv	% RECOVERED	LIMITS
2 Chloromethane	10	12	115.56	70-130
4 Vinyl Chloride	10	12	116.29	70-130
6 Bromomethane	10	12	118.05	70-130
7 Chloroethane	10	11	114.09	70-130
10 Trichlorofluoromet	10	10	100.58	70-130
13 Methylene Chloride	10	10	103.82	70-130
18 1,1-Dichloroethane	10	10	101.97	70-130
21 cis-1,2-Dichloroet	10	10	103.67	70-130
24 Chloroform	10	9.8	98.55	70-130
26 1,2-Dichloroethane	10	9.1	90.76	70-130
27 1,1,1-Trichloroeth	10	8.6	85.83	70-130
28 Benzene	10	11	106.08	70-130
29 Carbon Tetrachlori	10	8.4	84.36	70-130
32 1,2-Dichloropropan	10	11	106.36	70-130
34 Trichloroethene	10	10	99.86	70-130
38 cis-1,3-Dichloropr	10	9.7	96.87	70-130
40 trans-1,3-Dichloro	10	8.7	87.22	70-130
41 1,1,2-Trichloroeth	10	9.9	98.93	70-130
42 Toluene	10	11	111.91	70-130
46 Tetrachloroethene	10	11	110.91	70-130
48 Chlorobenzene	10	11	112.88	70-130
49 Ethylbenzene	10	11	112.90	70-130
50 Xylene (m,p)	20	22	110.65	70-130
52 Styrene	10	12	118.50	70-130
53 1,1,2,2-Tetrachlor	10	11	108.61	70-130
54 Xylene (o)	10	11	110.01	70-130
59 1,3-Dichlorobenzen	10	11	112.91	70-130
60 1,4-Dichlorobenzen	10	11	114.75	70-130
61 1,2-Dichlorobenzen	10	12	117.28	70-130

SEVERN
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SERVICES

Severn Trent Laboratories, Inc.

SAMPLE PREPARATION

Severn Trent Laboratories-VT
Instrument Run Log
Instrument X

Batch: XCK+015
Opened: 11 / 20 / 00 **Time:** 0324
Closed: 11 / 21 / 00 **Time:** 0734

ETR #	SDG #
800887	800887
800 00	—

Tune: ✓ 8134
ISTD Tag #: 01-1388

Temp: 19.5 °C B.P.: 29.80 "Hg

INJ. TIME	LAB ID	CAN ID #	CLIENT ID	ETR #	INLET #	SAMPLE VOLUME (mL)	DILUTION FACTOR	ISTD RECOVERY	CONC.	ANALYST	COMMENTS
0724	CK002p	NA	XB78002	NA	NA	NA	NA	NA	✓	GMM	
0752	CK0005	6087	ASTD0005		3	20		✓	✓		
0826	CK005	EXP1	005		16	25		✓	✓		
0900	CK010		010		16	50		✓	✓		
0934	CK020		020		16	100		✓	✓		
1011	CK040		040		16	200		✓	✓		
1057	CK0100	6097	AG 10v		15	200		✓	✓		
1219	CKD001	NA	ABLKHG		2	200		✓	✓		
1253	438348d	1349	SVF 1-40	800887	5	~~10~~ 10	1.20	✓	↑		CCl4 55
1337	438348d		SVF 001 40		6	15	133 ~~40~~	✓	✓		CCl4@40 (ok)
1404	438348d2		SVF 1-40		5	80	120 50	✓	✓		
1549	437308	6046	GP-6	800800	9	200	1.1	✓	↑		Acetone 360
1624	437309	6061	CMT-2		10	10 *	1.20	✓	✓		* Volume ↓ because of amt of sample in canister
1701	437310	6145	CMT-1		11	20 *	1.10	✓	✓		
1738	437312	6134	GW-22		12	200	1.1	✓	↑ *		Detector saturated
	GMM 1121 00										

Severn Trent Laboratories-VT
Instrument Run Log
Instrument X

Batch: xCKo1005

Opened: 11 / 21 / 00 **Time:** 0725

Closed: 11 / 22 / 00 **Time:** 0725

ETR #	SDG #
[illegible]	–
[illegible]	[illegible]
[illegible]	[illegible]

Tune: ✓ 25AE

ISTD Tag #: [illegible]

Temp: [illegible] °C B.P.: 29.59 "Hg

INJ. TIME	LAB ID	CAN ID #	CLIENT ID	ETR #	INLET #	SAMPLE VOLUME (mL)	DILUTION FACTOR	ISTD RECOVERY	CONC.	ANALYST	COMMENTS
0725	CK003p	n/a	[illegible]	n/a	n/a	n/a	n/a	n/c	✓	[illegible]	
0751	CK010a	[illegible]	[illegible]	↓	10	50	↓	✓	✓	↓	• [illegible]
0826	CK010aq	[illegible]	[illegible]		15	200		✓	✓		[illegible]
0958	CKb001a	n/a	[illegible]		3	200		✓	✓		
1036	43130812	[illegible]	[illegible]	[illegible]	9	40	2.05 14.75	✓	✓		C
1108	43731212	6134	GW-22	↓	12	20	3.41 34.1	✓	↑		
1145	43815410	[illegible]	[illegible]	[illegible]	5	100	1.20 40	✓	✓		C
1217	43845510	↓	[illegible]	↓	6	10	20	✓	✓		C
1252	43731213	6134	GW-22	[illegible]	7	100	1.00 3.41 6.82	✓	✓	↓	C
1439	438420	[illegible]	ACA1A-	[illegible]	9	200	1.1	✓ A	✓	[illegible]	C [illegible]
1513	438421	6114	ACA2A-	↓	10	200	↓	✓	✓	↓	C
1549	438422	6027	ACA3A-		11	200		✓	✓		C
1623	[illegible]		[illegible]	n/a	12	[illegible]	↓	✓	✓		

0126

SEVERN
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Severn Trent Laboratories, Inc.

SAMPLE HANDLING

SEVERN TRENT LABORATORIES LOG-IN SHEET - Form DC-1

Lab Name: Severn Trent Laboratories - VT

Page 1 of 1

Received By (Print Name): Scott Lavigne

Log-in Date: 11/20/00

Received By (Signature): Scott

Case Number: 20031

Sample Delivery Group No: 80694

ETR Number: 80694

REMARKS:

1. **Custody Seal** ~~Present/Absent*~~ ~~Intact/Broken~~
2. **Custody Seal Nos.:** N/A
3. **Chain-of-Custody Records** ~~Present/Absent*~~
4. **Sample Information Sheets** ~~Present/Absent*~~
5. **Airbill** ~~Airbill/Sticker~~ SML ~~Present/Absent*~~
6. **Airbill No.:** Could not be Retreived
7. **Sample Tags** ~~Present/Absent*~~
   Sample Tag Numbers ~~Listed~~/Not Listed on Chain-of-Custody
8. **Sample Condition:** ~~Intact/Broken*~~ ~~Leaking~~
9. **Does information on the custody records, sample information sheets, sample tags and labels agree?** ~~Yes/No*~~
10. **Date Received at Lab:** 11/16/00
11. **Time Received:** 0930
12. **Cooler Temperature:** N/A "Box"

Sample Transfer

Fraction: All

Area #: LVL 4

By: SML

On: 11/16/00

CORRESPONDING			
CLIENT SAMPLE #	SAMPLE TAG #	ASSIGNED LAB #	REMARKS: CONDITION OF SAMPLE SHIPMENT, ETC.
029ACATIA	130006 N/A	438420	Were air bubbles present
029ACATIA	130006 "	438421	in any VOA vials? N/A
029ACATIA	130006 "	438422	Samples received
			Intact, as were
			custody seals on
			outside of Box.
			* Removed dashes
			for truncation.
	SML	11/20/00	

* Contact Project Director

Reviewed by: 11/22/00

Logbook No.:

Date:

Logbook Page No.:

** COOLER RECEIPT CHECKLIST **

WERE CUSTODY SEALS PRESENT ON THE COOLERS?

YES NO

IF SO, WERE THERE CUSTODY SEAL NUMBERS?

YES NO

LIST THE CUSTODY SEAL NUMBERS. _____ _____

WHAT TYPE OF COOLING WAS UTILIZED?

ICE MELTED ICE PACKS NONE

COOLER TEMPERATURE (degrees c): Box

DATE AND TIME COOLER RECEIVED: 11-16-00 0930

DO SAMPLES APPEAR TO BE INTACT: YES NO

DO ANY SAMPLES HAVE SHORT HOLDING TIMES?
(less than seven days)

WET CHEM YES NO

EXTRACTABLES YES NO

UNPRES VOA YES NO

RADIATION SCREEN RESULTS <0.05 MR/HR YES NO

CD 29
103rd Monroe St.

SEVERN
TRENT
SERVICES

STL Burlington

SAMPLE DATA SUMMARY PACKAGE

SDG NO: 81024

CCI NAVY RAC PMO
JAN 5 2001

SEVERN TRENT SERVICES

STL Burlington
Suite 1
208 South Park Drive
Colchester, VT 05446

Tel: 802 655 1203
Fax: 802 655 1248
www.stl-inc.com

December 27, 2000

Mr. David Fuller
Accura Analytical Laboratories
6017 Financial Drive
Norcross, GA 30071

Re: Laboratory Project No. 20031
Case: 20031; SDG: 81024

Dear Mr. Fuller:

Enclosed are the analytical results of samples received intact by Severn Trent Laboratories on December 15, 2000. Laboratory numbers have been assigned and designated as follows:

Lab ID	Client Sample ID	Sample Date	Sample Matrix
	Received: 12/15/00	ETR No: 81024	
440589	029ACAIA12110007	12/11/00	Air
440590	029ACA2IA12110007	12/11/00	Air
440591	029ACAEA12110007	12/11/00	Air

Method TO-14A Modified-Volatile Organics;
Please note that due to a limitation of characters inherent in the reporting software, some characters of the client identification above were truncated.

The laboratory noted no exceptions to method quality control requirements for this analytical work.

If there are any questions regarding this submittal, please contact Ron Pentkowski at (802) 655-1203.

This report shall not be reproduced, except in full, without the written approval of the laboratory.
This report is sequentially numbered starting with page 001 and ending with page 121.

SEVERN
TRENT
SERVICES

STL Burlington

I certify that this package is in compliance with the NELAC requirements, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Director or his designee, as verified by the following signature.

Sincerely,

Christopher A. Ouellette
Laboratory Director

RAP/mpg
Enclosure

SEVERN
TRENT
SERVICES

Severn Trent Laboratories, Inc.

SAMPLE DATA SUMMARY PACKAGE

FOR TO-14A

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ACCANA SAMPLE NO.

A2IA12110007

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81024

Matrix: (soil/water) AIR Lab Sample ID: 440590

Sample wt/vol: 200 (g/mL) ML Lab File ID: 440590

Level: (low/med) LOW Date Received: 12/15/00

% Moisture: not dec. _____ Date Analyzed: 12/18/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-09-2	Methylene Chloride	0.79	
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
67-66-3	Chloroform	0.67	
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	1.2	
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
1330-20-7	Xylene (m,p)	0.50	U
95-47-6	Xylene (o)	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ACCANA SAMPLE NO.

A2IA12110007

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81024

Matrix: (soil/water) AIR Lab Sample ID: 440590

Sample wt/vol: 200 (g/mL) ML Lab File ID: 440590

Level: (low/med) LOW Date Received: 12/15/00

% Moisture: not dec. _____ Date Analyzed: 12/18/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 10

CONCENTRATION UNITS:
(ug/L or ug/Kg) ppbv

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN ALIPHATIC COMPOUND	13.07	18	J
2.	UNKNOWN ALIPHATIC COMPOUND	13.21	19	J
3.	UNKNOWN ALIPHATIC COMPOUND	13.49	26	J
4.	UNKNOWN	13.57	16	J
5.	UNKNOWN C3-ALKYLBENZENE	13.62	17	J
6.	UNKNOWN C4-ALKYLBENZENE	14.06	14	J
7.	UNKNOWN C3-ALKYLBENZENE	14.13	24	J
8.	UNKNOWN	14.31	54	J
9.	UNKNOWN C4-ALKYLBENZENE	14.43	12	J
10. 493-02-7	NAPHTHALENE, DECAHYDRO-, TRA	14.74	15	NJ
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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ACCANA SAMPLE NO.

CAEA12110007

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81024

Matrix: (soil/water) AIR Lab Sample ID: 440591

Sample wt/vol: 200 (g/mL) ML Lab File ID: 440591

Level: (low/med) LOW Date Received: 12/15/00

% Moisture: not dec. _____ Date Analyzed: 12/18/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.80	
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	
75-09-2	Methylene Chloride	1.2	
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
67-66-3	Chloroform	1.3	
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.86	
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	16	
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	32	
1330-20-7	Xylene (total)	13	
100-42-5	Styrene	0.50	U
1330-20-7	Xylene (m,p)	13	
95-47-6	Xylene (o)	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ACCANA SAMPLE NO.

CAEA12110007

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81024

Matrix: (soil/water) AIR Lab Sample ID: 440591

Sample wt/vol: 200 (g/mL) ML Lab File ID: 440591

Level: (low/med) LOW Date Received: 12/15/00

% Moisture: not dec. _____ Date Analyzed: 12/18/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 10

CONCENTRATION UNITS:
(ug/L or ug/Kg) ppbv

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN ALIPHATIC COMPOUND	10.72	5.8	J
2. 111-65-9	OCTANE	11.25	18	NJ
3.	UNKNOWN ALIPHATIC COMPOUND	11.70	6.4	J
4.	UNKNOWN ALIPHATIC COMPOUND	11.95	37	J
5.	UNKNOWN ALKYLCYCLOHEXANE	12.16	5.6	J
6.	UNKNOWN ALKYLCYCLOHEXANE	12.49	5.5	J
7.	UNKNOWN	12.55	5.6	J
8.	UNKNOWN ALIPHATIC COMPOUND	12.61	10	J
9.	UNKNOWN ALKYLCYCLOHEXANE	12.89	9.1	J
10.	UNKNOWN	13.07	11	J
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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ACCANA SAMPLE NO.

CAIA12110007

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81024

Matrix: (soil/water) AIR Lab Sample ID: 440589

Sample wt/vol: 200 (g/mL) ML Lab File ID: 440589

Level: (low/med) LOW Date Received: 12/15/00

% Moisture: not dec. _____ Date Analyzed: 12/18/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-09-2	Methylene Chloride	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
67-66-3	Chloroform	0.82	
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
1330-20-7	Xylene (m,p)	0.50	U
95-47-6	Xylene (o)	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ACCANA SAMPLE NO.

CAIA12110007

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81024

Matrix: (soil/water) AIR Lab Sample ID: 440589

Sample wt/vol: 200 (g/mL) ML Lab File ID: 440589

Level: (low/med) LOW Date Received: 12/15/00

% Moisture: not dec. _____ Date Analyzed: 12/18/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ppbv

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

STLVT SAMPLE NO.

ABLKL4

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81024

Matrix: (soil/water) AIR Lab Sample ID: ABLKL4

Sample wt/vol: 200 (g/mL) ML Lab File ID: CEB001

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 12/18/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-09-2	Methylene Chloride	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
1330-20-7	Xylene (m,p)	0.50	U
95-47-6	Xylene (o)	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

STLVT SAMPLE NO.

ABLKL4

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81024

Matrix: (soil/water) AIR Lab Sample ID: ABLKL4

Sample wt/vol: 200 (g/mL) ML Lab File ID: CEB001

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 12/18/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ppbv

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

STLVT SAMPLE NO.

L4_ICVLCS

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81024

Matrix: (soil/water) AIR Lab Sample ID: L4_ICVLCS

Sample wt/vol: 200 (g/mL) ML Lab File ID: CE010Q

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 12/18/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	9.5	
75-01-4	Vinyl Chloride	9.5	
74-83-9	Bromomethane	9.1	
75-00-3	Chloroethane	9.0	
75-69-4	Trichlorofluoromethane	9.4	
75-09-2	Methylene Chloride	8.7	
75-34-3	1,1-Dichloroethane	9.4	
156-59-2	cis-1,2-Dichloroethene	9.4	
67-66-3	Chloroform	9.4	
71-55-6	1,1,1-Trichloroethane	9.1	
56-23-5	Carbon Tetrachloride	9.6	
71-43-2	Benzene	9.3	
107-06-2	1,2-Dichloroethane	9.7	
79-01-6	Trichloroethene	9.7	
78-87-5	1,2-Dichloropropane	9.5	
10061-01-5	cis-1,3-Dichloropropene	9.5	
108-88-3	Toluene	9.6	
10061-02-6	trans-1,3-Dichloropropene	8.6	
79-00-5	1,1,2-Trichloroethane	9.7	
127-18-4	Tetrachloroethene	9.2	
108-90-7	Chlorobenzene	9.3	
100-41-4	Ethylbenzene	9.6	
1330-20-7	Xylene (total)	29	
100-42-5	Styrene	11	
1330-20-7	Xylene (m,p)	19	
95-47-6	Xylene (o)	9.6	
79-34-5	1,1,2,2-Tetrachloroethane	9.9	
541-73-1	1,3-Dichlorobenzene	10	
106-46-7	1,4-Dichlorobenzene	10	
95-50-1	1,2-Dichlorobenzene	10	

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81024

Matrix Spike - STLVT Sample No.: L4_ICVLCS

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
Chloromethane	10		9.5	95	70-130
Vinyl Chloride	10		9.5	95	70-130
Bromomethane	10		9.1	91	70-130
Chloroethane	10		9.0	90	70-130
Trichlorofluoromethane	10		9.4	94	70-130
Methylene Chloride	10		8.7	87	70-130
1,1-Dichloroethane	10		9.4	94	70-130
cis-1,2-Dichloroethene	10		9.4	94	70-130
Chloroform	10		9.4	94	70-130
1,1,1-Trichloroethane	10		9.1	91	70-130
Carbon Tetrachloride	10		9.6	96	70-130
Benzene	10		9.3	93	70-130
1,2-Dichloroethane	10		9.7	97	70-130
Trichloroethene	10		9.7	97	70-130
1,2-Dichloropropane	10		9.5	95	70-130
cis-1,3-Dichloropropene	10		9.5	95	70-130
Toluene	10		9.6	96	70-130
trans-1,3-Dichloroprope	10		8.6	86	70-130
1,1,2-Trichloroethane	10		9.7	97	70-130
Tetrachloroethene	10		9.2	92	70-130
Chlorobenzene	10		9.3	93	70-130
Ethylbenzene	10		9.6	96	70-130
Styrene	10		11	110	70-130
Xylene (m,p)	20		19	95	70-130
Xylene (o)	10		9.6	96	70-130
1,1,2,2-Tetrachloroetha	10		9.9	99	70-130
1,3-Dichlorobenzene	10		10	100	70-130
1,4-Dichlorobenzene	10		10	100	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81024

Matrix Spike - STLVT Sample No.: L4_ICVLCS

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
1,2-Dichlorobenzene	10		10	100	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 29 outside limits

COMMENTS:

FORM 4
VOLATILE METHOD BLANK SUMMARY

STLVT SAMPLE NO.

ABLKL4

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81024

Lab File ID: CEB001 Lab Sample ID: ABLKL4

Date Analyzed: 12/18/00 Time Analyzed: 1525

GC Column: DB-1 ID: 0.35 (mm) Heated Purge: (Y/N) N

Instrument ID: W

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	STLVT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	L4_ICVLCS	L4_ICVLCS	CE010Q	1417
02	CAIA12110007	440589	440589	1635
03	A2IA12110007	440590	440590	1707
04	CAEA12110007	440591	440591	1741
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COMMENTS:

FORM IV VOA

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81024

Lab File ID: CE001P BFB Injection Date: 12/18/00

Instrument ID: W BFB Injection Time: 0805

GC Column: DB-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	21.8
75	30.0 - 66.0% of mass 95	48.6
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	68.9
175	4.0 - 9.0% of mass 174	5.0 (7.3)1
176	93.0 - 101.0% of mass 174	66.2 (96.2)1
177	5.0 - 9.0% of mass 176	4.4 (6.6)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	ASTD020	ASTD020	CE020	12/18/00	1004
02	ASTD040	ASTD040	CE040	12/18/00	1038
03	ASTD005	ASTD005	CE005	12/18/00	1114
04	ASTD0005	ASTD0005	CE0005I2	12/18/00	1223
05	ASTD010	ASTD010	CE010I2	12/18/00	1344
06	L4_ICVLCS	L4_ICVLCS	CE010Q	12/18/00	1417
07	ABLKL4	ABLKL4	CEB001	12/18/00	1525
08	CAIA12110007	440589	440589	12/18/00	1635
09	A2IA12110007	440590	440590	12/18/00	1707
10	CAEA12110007	440591	440591	12/18/00	1741
11					
12					
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14					
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22					

FORM V VOA

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81024

Instrument ID: W Calibration Date(s): 12/18/00 12/18/00

Heated Purge: (Y/N) N Calibration Time(s): 1004 1344

GC Column: DB-1 ID: 0.35 (mm)

LAB FILE ID: RRF0.5=CE0005I2 RRF5 =CE005
RRF10 =CE010I2 RRF20 =CE020 RRF40 =CE040

COMPOUND	RRF0.5	RRF5	RRF10	RRF20	RRF40	$\overline{RRF}$	% RSD
Chloromethane *	0.676	0.647	0.614	0.523	0.506	0.593	12.7*
Vinyl Chloride	0.684	0.692	0.670	0.585	0.560	0.638	9.6
Bromomethane	0.930	0.929	0.813	0.716	0.726	0.823	12.7
Chloroethane	0.428	0.438	0.397	0.338	0.364	0.393	10.7
Trichlorofluoromethane	2.520	2.478	2.222	2.042	1.935	2.239	11.5
Methylene Chloride	1.446	0.967	0.906	0.773	0.762	0.971	28.8
1,1-Dichloroethane *	1.704	1.696	1.495	1.291	1.260	1.489	14.3*
cis-1,2-Dichloroethene	1.192	1.248	1.102	1.064	0.950	1.111	10.4
Chloroform	2.265	2.167	1.952	1.815	1.642	1.968	12.9
1,1,1-Trichloroethane	2.100	2.091	1.801	1.750	1.609	1.870	11.6
Carbon Tetrachloride	0.491	0.445	0.427	0.381	0.360	0.421	12.3
Benzene	0.698	0.610	0.551	0.514	0.480	0.571	15.1
1,2-Dichloroethane	1.482	1.427	1.286	1.240	1.175	1.322	9.7
Trichloroethene	0.331	0.301	0.273	0.249	0.232	0.277	14.3
1,2-Dichloropropane	0.255	0.231	0.210	0.194	0.181	0.214	13.8
cis-1,3-Dichloropropene	0.246	0.253	0.258	0.256	0.263	0.255	2.5
Toluene	0.421	0.442	0.404	0.361	0.354	0.396	9.6
trans-1,3-Dichloropropene	0.172	0.182	0.166	0.189	0.194	0.181	6.3
1,1,2-Trichloroethane	0.264	0.248	0.227	0.206	0.192	0.227	12.9
Tetrachloroethene	0.358	0.342	0.309	0.279	0.272	0.312	12.1
Chlorobenzene *	0.660	0.562	0.521	0.462	0.445	0.530	16.3*
Ethylbenzene	1.003	1.015	0.938	0.819	0.788	0.913	11.4
Xylene (total)	1.097	1.031	0.992	0.889	0.902	0.982	8.9
Styrene	0.363	0.243	0.334	0.360	0.343	0.329	15.0
Xylene (m,p)	0.368	0.347	0.334	0.298	0.302	0.330	9.0
Xylene (o)	0.362	0.337	0.324	0.293	0.297	0.323	8.9
1,1,2,2-Tetrachloroethane	0.661	0.542	0.513	0.459	0.451	0.525	16.1
1,3-Dichlorobenzene	0.478	0.424	0.398	0.398	0.434	0.426	7.8
1,4-Dichlorobenzene	0.558	0.374	0.408	0.405	0.433	0.436	16.4
1,2-Dichlorobenzene	0.394	0.306	0.319	0.330	0.366	0.343	10.6

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81024

Instrument ID: W Calibration Date: 12/18/00 Time: 1344

Lab File ID: CE010I2 Init. Calib. Date(s): 12/18/00 12/18/00

Heated Purge: (Y/N) N Init. Calib. Times: 1004 1344

GC Column: DB-1 ID: 0.35 (mm)

COMPOUND	$\overline{RRF}$	RRF10	MIN RRF	%D	MAX %D
Chloromethane	0.593	0.614	0.1	3.5	30.0
Vinyl Chloride	0.638	0.670	0.01	5.0	30.0
Bromomethane	0.823	0.813	0.01	1.2	30.0
Chloroethane	0.393	0.397	0.01	1.0	30.0
Trichlorofluoromethane	2.239	2.222	0.01	0.8	30.0
Methylene Chloride	0.971	0.906	0.01	6.7	30.0
1,1-Dichloroethane	1.489	1.495	0.1	0.4	30.0
cis-1,2-Dichloroethene	1.111	1.102	0.01	0.8	30.0
Chloroform	1.968	1.952	0.01	0.8	30.0
1,1,1-Trichloroethane	1.870	1.801	0.01	3.7	30.0
Carbon Tetrachloride	0.421	0.427	0.01	1.4	30.0
Benzene	0.571	0.551	0.01	3.5	30.0
1,2-Dichloroethane	1.322	1.286	0.01	2.7	30.0
Trichloroethene	0.277	0.273	0.01	1.4	30.0
1,2-Dichloropropane	0.214	0.210	0.01	1.9	30.0
cis-1,3-Dichloropropene	0.255	0.258	0.01	1.2	30.0
Toluene	0.396	0.404	0.01	2.0	30.0
trans-1,3-Dichloropropene	0.181	0.166	0.01	8.3	30.0
1,1,2-Trichloroethane	0.227	0.227	0.01	0.0	30.0
Tetrachloroethene	0.312	0.309	0.01	1.0	30.0
Chlorobenzene	0.530	0.521	0.3	1.7	30.0
Ethylbenzene	0.913	0.938	0.01	2.7	30.0
Xylene (total)	0.982	0.992	0.01	1.0	30.0
Styrene	0.329	0.334	0.01	1.5	30.0
Xylene (m,p)	0.330	0.334	0.01	1.2	30.0
Xylene (o)	0.323	0.324	0.01	0.3	30.0
1,1,2,2-Tetrachloroethane	0.525	0.513	0.01	2.3	30.0
1,3-Dichlorobenzene	0.426	0.398	0.01	6.6	30.0
1,4-Dichlorobenzene	0.436	0.408	0.01	6.4	30.0
1,2-Dichlorobenzene	0.343	0.319	0.01	7.0	30.0

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81024

Lab File ID (Standard): CE010I2 Date Analyzed: 12/18/00

Instrument ID: W Time Analyzed: 1344

GC Column: DB-1 ID: 0.35 (mm) Heated Purge: (Y/N) N

		IS1(BCM) AREA #	RT #	IS2(CBZ) AREA #	RT #	IS3(DFB) AREA #	RT #
	12 HOUR STD	335524	7.62	1506068	11.84	1443226	8.96
	UPPER LIMIT	805258	7.95	3614563	12.17	3463742	9.29
	LOWER LIMIT	134210	7.29	602427	11.51	577290	8.63
	CLIENT SAMPLE NO.						
01	L4_ICVLCS	339941	7.62	1534243	11.84	1434000	8.96
02	ABLKL4	297081	7.64	1481319	11.84	1382662	8.97
03	CAIA12110007	276854	7.59	1060364	11.83	1017241	8.94
04	A2IA12110007	276416	7.59	1098375	11.82	1239101	8.93
05	CAEA12110007	312119	7.58	1247750	11.81	1270164	8.93
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IS1 (BCM) = Bromochloromethane
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DFB) = 1,4-Difluorobenzene

AREA UPPER LIMIT = +140% of internal standard area
AREA LOWER LIMIT = - 60% of internal standard area
RT UPPER LIMIT = + 0.33 minutes of internal standard RT
RT LOWER LIMIT = - 0.33 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

FORM VIII VOA

AAL# 26636

CH2M Hill Constructors, Inc.
115 Perimeter Center Place, Suite 700
Atlanta, GA 30346-1278
Tel No (770) 604-9182 ; Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER: **154282-07**

PROJECT NAME:	PROJECT NUMBER:	LAB NAME AND CONTACT:	FAX AND MAIL REPORTS/EDD TO: RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No. , and Fax No.)
N.A.S Cecil Field 103rd Street	154282	Severn Trent Laboratories/ Ron Pentkowski	Bonnie Hogue Accura Analytical Laboratory	6017 Financial Drive Norcross, GA 30071 (770) 449-8800 Fax:(770) 449-5477
PROJECT PHASE/SITE/TASK:	CTO OR DO NUMBER:	LAB PO NUMBER:	FAX AND MAIL REPORTS/EDD TO: RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No. , and Fax No.)
103rd Street Monthly Air	0029	1760	Jennifer Zimmerman / J.A Jones Env. Services	6219 Authority Ave. Building 1 Jacksonville, FL 32215 (904) 7774812 FAX: (904) 7774262
PROJECT CONTACT:	PROJECT TEL NO AND FAX NO:	LAB TEL NO AND FAX NO:	FAX AND MAIL REPORTS/EDD TO: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No , and Fax No.)
David Garrity	Ph:(904)777-4812 Fax:(904) 777-4262	Ph:(802) 655-1203	Jeff Wilmoth / CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 Ext.561 FAX:604-9282

ANALYSES REQUIRED (Include Method Numbers)

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	Volatiles by 18 / TO 14										SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB I
1	029-ACA-I-A-1211-00-07	Pre Carbon Units	A	12/11/00	14:15	III/B	7	1										Grab	Summa Canister	AC0601
2	029-ACA2-I-A-1211-00-07	Mid Carbon Units	A	12/11/00	14:20	III/B	7	1										Grab	Summa Canister	604'
3	029-ACA-E-A-1211-00-07	Post Carbon Units	A	12/11/00	14:25	III/B	7	1										Grab	Summa Canister	604'
4																				
5																				
6																				
7																				
8																				
9																				
10																				

SAMPLER(S) AND COMPANY: (please print)
Randy Dumaop / Scott Sloan
J.A. Jones Environmental Services

COURIER AND SHIPPING NUMBER:
Federal Express TRK# 7917 1909 9377

SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT
N/A

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature:			Printed Name and Signature:		
R.Dumaop	12/12/00	11:00	Federal Express	12/12/00	11:00
Printed Name and Signature:			Printed Name and Signature:		
Printed Name and Signature			Printed Name and Signature		
			Frank Bassett	12-15-00	1000

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Form CC1001, Rev 02/00

SEVERN
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Severn Trent Laboratories, Inc.

NARRATIVE

SEVERN
TRENT
SERVICES

STL Burlington
Suite 1
208 South Park Drive
Colchester, VT 05446

Tel: 802 655 1203
Fax: 802 655 1248
www.stl-inc.com

CCI NAVY RAC PMO
JAN 5 2001

December 27, 2000

Mr. David Fuller
Accura Analytical Laboratories
6017 Financial Drive
Norcross, GA 30071

Re: Laboratory Project No. 20031
Case: 20031; SDG: 81024

Dear Mr. Fuller:

Enclosed are the analytical results of samples received intact by Severn Trent Laboratories on December 15, 2000. Laboratory numbers have been assigned and designated as follows:

Lab ID	Client Sample ID	Sample Date	Sample Matrix
	Received: 12/15/00	ETR No: 81024	
440589	029ACAIA12110007	12/11/00	Air
440590	029ACA2IA12110007	12/11/00	Air
440591	029ACAEA12110007	12/11/00	Air

Method TO-14A Modified-Volatile Organics;
Please note that due to a limitation of characters inherent in the reporting software, some characters of the client identification above were truncated.

The laboratory noted no exceptions to method quality control requirements for this analytical work.

If there are any questions regarding this submittal, please contact Ron Pentkowski at (802) 655-1203.

This report shall not be reproduced, except in full, without the written approval of the laboratory.
This report is sequentially numbered starting with page 001 and ending with page 121.

SEVERN
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SERVICES

STL Burlington

I certify that this package is in compliance with the NELAC requirements, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Director or his designee, as verified by the following signature.

Sincerely,

Christopher A. Ouellette
Laboratory Director

RAP/mpg
Enclosure

SEVERN TRENT SERVICES

STL Burlington

The following Qualifiers may be used when reporting any Organic parameters analyzed by Gas Chromatography/mass Spectometry (GCMS). Any additional qualifiers used in the reports will be described in the case narrative. These flags are based on the EPA Contract Laboratory Program statement of work.

GC/MS Qualifiers

A- The reported Tentatively Identified Compound (TIC) is a suspected Aldol-condensation product.

B- The reported analyte was detected in the associated method blank as well as the sample.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor. This flag alerts data users that any discrepancies between the concentrations reported for the dilutions may be due to dilution of the sample or extract. It additionally indicates that spike recoveries may have been diluted below quantifiable levels.

E- Compound quantitation is above the instrument's calibration range for this analysis.

J - Indicates an estimated value. This flag is used when the result is less than the reporting limit, but > ½ reporting limit.

U- Indicates compound was analyzed for but not detected above the reporting limit.

X,Y,Z - Laboratory defined flags. These flags must be fully described, and such description attached to the Sample Data Summary Package and the case Narrative. Begin by using "X" and go on to "Y" as necessary. These flags may also be used to combine several flags, as needed.

STL Burlington is a part of Severn Trent Laboratories, Inc.

CH2M Hill Constructors, Inc.
115 Perimeter Center Place, Suite 700
Atlanta, GA 30346-1278
Tel No (770) 604-9182 ; Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER
154282-07

PROJECT NAME	PROJECT NUMBER	LAB NAME AND CONTACT	FAX AND MAIL REPORTS/EDD TO RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No , and Fax No)
N.A.S Cecil Field 103rd Street	154282	Severn Trent Laboratories/ Ron Pentkowski	Bonnie Hogue Accura Analytical Laboratory	6017 Financial Drive Norcross, GA 30071 (770) 449-8800 Fax:(770) 449-5477
PROJECT PHASE/SITE/TASK	CTO OR DO NUMBER	LAB PO NUMBER	FAX AND MAIL REPORTS/EDD TO RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No , and Fax No)
103rd Street Monthly Air	0029	1760	Jennifer Zimmerman / J.A Jones Env. Services	6219 Authority Ave. Building 1 Jacksonville, FL 32215 (904) 7774812 FAX: (904) 7774262
PROJECT CONTACT	PROJECT TEL NO AND FAX NO	LAB TEL NO AND FAX NO	FAX AND MAIL REPORTS/EDD TO RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No , and Fax No)
David Garrity	Ph:(904)777-4812 Fax:(904) 777-4262	Ph:(802) 655-1203	Jeff Wilmoth / CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 Ext.561 FAX:604-9282

ANALYSES REQUIRED (Include Method Numbers)

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	Volatiles by 18 / TO 14										SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	029-ACA-I-A-1211-00-07	Pre Carbon Units	A	12/11/00	14:15	III/B	7	1										Grab	Summa Canister	
2	029-ACA2-I-A-1211-00-07	Mid Carbon Units	A	12/11/00	14:20	III/B	7	1										Grab	Summa Canister	
3	029-ACA-E-A-1211-00-07	Post Carbon Units	A	12/11/00	14:25	III/B	7	1										Grab	Summa Canister	
4																				
5																				
6																				
7																				
8																				
9																				
10																				

SAMPLER(S) AND COMPANY (please print)	COURIER AND SHIPPING NUMBER	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT
Randy Dumaop / Scott Sloan J.A. Jones Environmental Services	Federal Express TRK# 7917190993 77	

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature			Printed Name and Signature		
R.Dumaop	12/12/00	11:00	Federal Express	12/12/00	11:00
Printed Name and Signature			Printed Name and Signature		
Printed Name and Signature			Printed Name and Signature		
			Frank Bisset	12-15-00	1000

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Form CC001, Rev 02/00

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

METHOD TO-14A
VOLATILE ORGANIC ANALYSIS

QC SUMMARY

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81024

Matrix Spike - STLVT Sample No.: L4_ICVLCS

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
Chloromethane	10		9.5	95	70-130
Vinyl Chloride	10		9.5	95	70-130
Bromomethane	10		9.1	91	70-130
Chloroethane	10		9.0	90	70-130
Trichlorofluoromethane	10		9.4	94	70-130
Methylene Chloride	10		8.7	87	70-130
1,1-Dichloroethane	10		9.4	94	70-130
cis-1,2-Dichloroethene	10		9.4	94	70-130
Chloroform	10		9.4	94	70-130
1,1,1-Trichloroethane	10		9.1	91	70-130
Carbon Tetrachloride	10		9.6	96	70-130
Benzene	10		9.3	93	70-130
1,2-Dichloroethane	10		9.7	97	70-130
Trichloroethene	10		9.7	97	70-130
1,2-Dichloropropane	10		9.5	95	70-130
cis-1,3-Dichloropropene	10		9.5	95	70-130
Toluene	10		9.6	96	70-130
trans-1,3-Dichloroprope	10		8.6	86	70-130
1,1,2-Trichloroethane	10		9.7	97	70-130
Tetrachloroethene	10		9.2	92	70-130
Chlorobenzene	10		9.3	93	70-130
Ethylbenzene	10		9.6	96	70-130
Styrene	10		11	110	70-130
Xylene (m,p)	20		19	95	70-130
Xylene (o)	10		9.6	96	70-130
1,1,2,2-Tetrachloroetha	10		9.9	99	70-130
1,3-Dichlorobenzene	10		10	100	70-130
1,4-Dichlorobenzene	10		10	100	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81024

Matrix Spike - STLVT Sample No.: L4_ICVLCS

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
1,2-Dichlorobenzene	10		10	100	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 29 outside limits

COMMENTS:

FORM 4
VOLATILE METHOD BLANK SUMMARY

STLVT SAMPLE NO.

ABLKL4

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81024

Lab File ID: CEB001 Lab Sample ID: ABLKL4

Date Analyzed: 12/18/00 Time Analyzed: 1525

GC Column: DB-1 ID: 0.35 (mm) Heated Purge: (Y/N) N

Instrument ID: W

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	STLVT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	L4_ICVLCS	L4_ICVLCS	CE010Q	1417
02	CAIA12110007	440589	440589	1635
03	A2IA12110007	440590	440590	1707
04	CAEA12110007	440591	440591	1741
05				
06				
07				
08				
09				
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COMMENTS:

FORM IV VOA

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81024

Lab File ID: CE001P BFB Injection Date: 12/18/00

Instrument ID: W BFB Injection Time: 0805

GC Column: DB-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	21.8
75	30.0 - 66.0% of mass 95	48.6
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	68.9
175	4.0 - 9.0% of mass 174	5.0 (7.3)1
176	93.0 - 101.0% of mass 174	66.2 (96.2)1
177	5.0 - 9.0% of mass 176	4.4 (6.6)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	ASTD020	ASTD020	CE020	12/18/00	1004
02	ASTD040	ASTD040	CE040	12/18/00	1038
03	ASTD005	ASTD005	CE005	12/18/00	1114
04	ASTD0005	ASTD0005	CE0005I2	12/18/00	1223
05	ASTD010	ASTD010	CE010I2	12/18/00	1344
06	L4_ICVLCS	L4_ICVLCS	CE010Q	12/18/00	1417
07	ABLKL4	ABLKL4	CEB001	12/18/00	1525
08	CAIA12110007	440589	440589	12/18/00	1635
09	A2IA12110007	440590	440590	12/18/00	1707
10	CAEA12110007	440591	440591	12/18/00	1741
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81024

Lab File ID (Standard): CE010I2 Date Analyzed: 12/18/00

Instrument ID: W Time Analyzed: 1344

GC Column: DB-1 ID: 0.35 (mm) Heated Purge: (Y/N) N

		IS1(BCM) AREA #	RT #	IS2(CBZ) AREA #	RT #	IS3(DFB) AREA #	RT #
	12 HOUR STD	335524	7.62	1506068	11.84	1443226	8.96
	UPPER LIMIT	805258	7.95	3614563	12.17	3463742	9.29
	LOWER LIMIT	134210	7.29	602427	11.51	577290	8.63
	CLIENT SAMPLE NO.						
01	L4_ICVLCS	339941	7.62	1534243	11.84	1434000	8.96
02	ABLKL4	297081	7.64	1481319	11.84	1382662	8.97
03	CAIA12110007	276854	7.59	1060364	11.83	1017241	8.94
04	A2IA12110007	276416	7.59	1098375	11.82	1239101	8.93
05	CAEA12110007	312119	7.58	1247750	11.81	1270164	8.93
06							
07							
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19							
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21							
22							

IS1 (BCM) = Bromochloromethane
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DFB) = 1,4-Difluorobenzene

AREA UPPER LIMIT = +140% of internal standard area
AREA LOWER LIMIT = - 60% of internal standard area
RT UPPER LIMIT = + 0.33 minutes of internal standard RT
RT LOWER LIMIT = - 0.33 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

FORM VIII VOA

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

METHOD TO-14A
VOLATILE ORGANIC ANALYSIS

SUPPORTIVE DOCUMENTATION

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ACCANA SAMPLE NO.

A2IA12110007

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81024

Matrix: (soil/water) AIR Lab Sample ID: 440590

Sample wt/vol: 200 (g/mL) ML Lab File ID: 440590

Level: (low/med) LOW Date Received: 12/15/00

% Moisture: not dec. _____ Date Analyzed: 12/18/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-09-2	Methylene Chloride	0.79	
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
67-66-3	Chloroform	0.67	
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	1.2	
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
1330-20-7	Xylene (m,p)	0.50	U
95-47-6	Xylene (o)	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ACCANA SAMPLE NO.

A2IA12110007

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81024

Matrix: (soil/water) AIR Lab Sample ID: 440590

Sample wt/vol: 200 (g/mL) ML Lab File ID: 440590

Level: (low/med) LOW Date Received: 12/15/00

% Moisture: not dec. _____ Date Analyzed: 12/18/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 10

CONCENTRATION UNITS:
(ug/L or ug/Kg) ppbv

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN ALIPHATIC COMPOUND	13.07	18	J
2.	UNKNOWN ALIPHATIC COMPOUND	13.21	19	J
3.	UNKNOWN ALIPHATIC COMPOUND	13.49	26	J
4.	UNKNOWN	13.57	16	J
5.	UNKNOWN C3-ALKYLBENZENE	13.62	17	J
6.	UNKNOWN C4-ALKYLBENZENE	14.06	14	J
7.	UNKNOWN C3-ALKYLBENZENE	14.13	24	J
8.	UNKNOWN	14.31	54	J
9.	UNKNOWN C4-ALKYLBENZENE	14.43	12	J
10. 493-02-7	NAPHTHALENE, DECAHYDRO-, TRA	14.74	15	NJ
11.				
12.				
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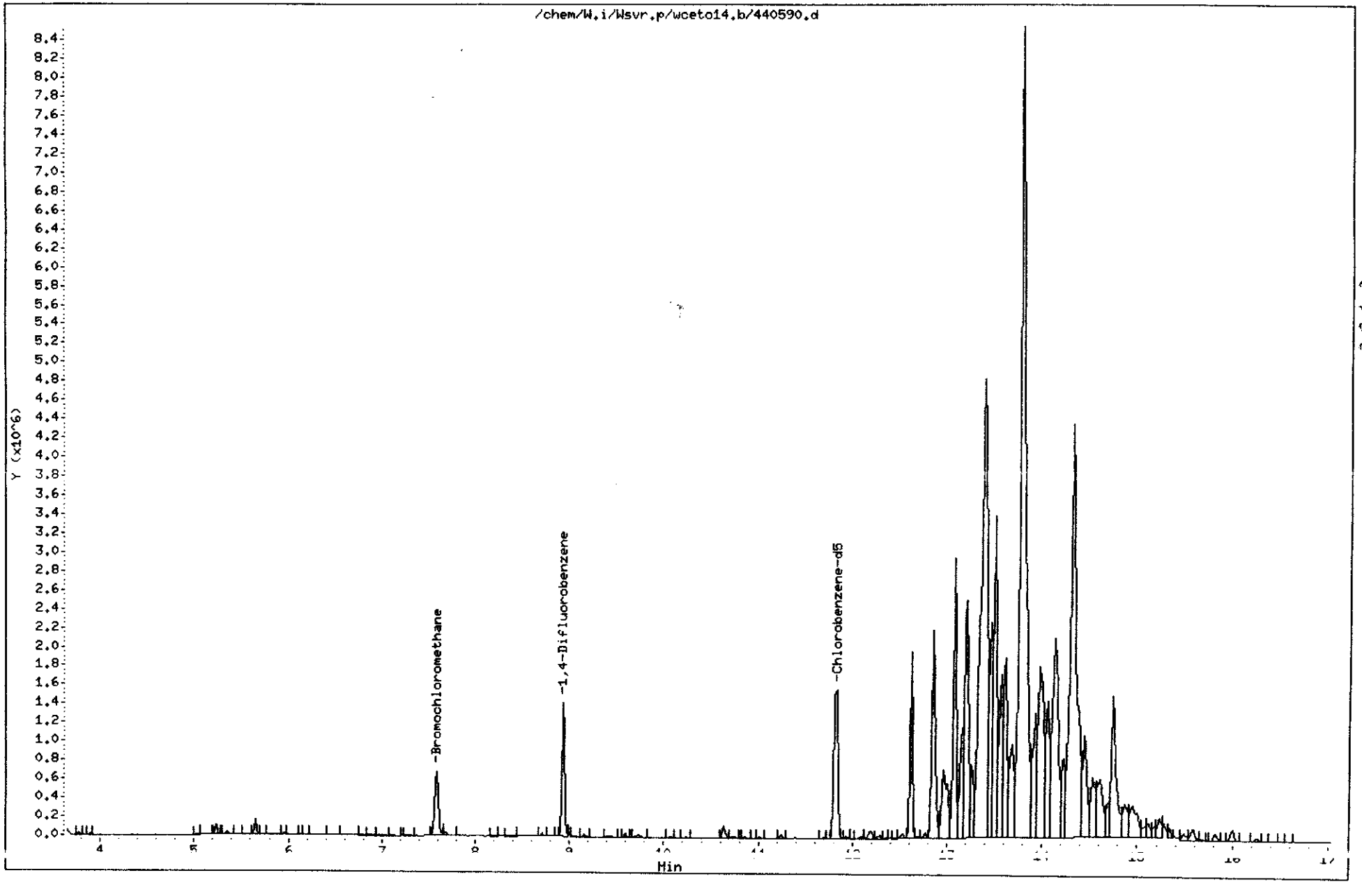
Data File: /chem/W.i/Wsvr.p/wceto14.b/440590.d
Date : 18-DEC-2000 17:07
Client ID: A2IA12110007
Sample Info: 440590;029ACA2IA12110007;81024;1218L4
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i
Operator: GMH
Column diameter: 0.35



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STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wceto14.b/440590.d
Lab Smp Id: 440590 Client Smp ID: A2IA12110007
Inj Date : 18-DEC-2000 17:07
Operator : GMM Inst ID: W.i
Smp Info : 440590;029ACA2IA12110007;81024;1218L4
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wceto14.b/ato14.m
Meth Date : 26-Dec-2000 14:40 mim Quant Type: ISTD
Cal Date : 18-DEC-2000 13:44 Cal File: ce010i2.d
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA2.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cond Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
2 Chloromethane	50	Compound Not Detected.					
4 Vinyl Chloride	62	Compound Not Detected.					
5 Bromomethane	94	Compound Not Detected.					
6 Chloroethane	64	Compound Not Detected.					
7 Trichlorofluoromethane	101	Compound Not Detected.					
9 Methylene Chloride	49	5.952	5.982	(0.784)	21243	0.79153	0.79
11 1,1-Dichloroethane	63	Compound Not Detected.					
12 cis-1,2-Dichloroethene	61	Compound Not Detected.					
* 13 Bromochloromethane	128	7.591	7.621	(1.000)	276416	10.0000	
14 Chloroform	83	7.667	7.697	(1.010)	36367	0.66850	0.67
15 1,2-Dichloroethane	62	Compound Not Detected.					
16 1,1,1-Trichloroethane	97	Compound Not Detected.					
17 Benzene	78	Compound Not Detected.					
18 Carbon Tetrachloride	117	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
*	19 1,4-Difluorobenzene	114	8.926	8.956	(1.000)	1239101	10.0000	
	20 1,2-Dichloropropane	63	Compound Not Detected.					
	21 Trichloroethene	95	Compound Not Detected.					
	22 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	23 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	24 1,1,2-Trichloroethane	83	Compound Not Detected.					
	25 Toluene	92	10.641	10.656	(0.900)	52490	1.20497	1.2
	27 Tetrachloroethene	166	Compound Not Detected.					
*	28 Chlorobenzene-d5	117	11.825	11.840	(1.000)	1098375	10.0000	
	29 Chlorobenzene	112	Compound Not Detected.					
	30 Ethylbenzene	91	Compound Not Detected.					
	31 Xylene (m,p)	106	Compound Not Detected.					
	32 Styrene	104	Compound Not Detected.					
M	33 Xylene (total)	106	Compound Not Detected.					
	34 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	35 Xylene (o)	106	Compound Not Detected.					
	38 1,3-Dichlorobenzene	146	Compound Not Detected.					
	39 1,4-Dichlorobenzene	146	Compound Not Detected.					
	40 1,2-Dichlorobenzene	146	Compound Not Detected.					

STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wceto14.b/440590.d
Lab Smp Id: 440590 Client Smp ID: A2IA12110007
Inj Date : 18-DEC-2000 17:07
Operator : GMM Inst ID: W.i
Smp Info : 440590;029ACA2IA12110007;81024;1218L4
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wceto14.b/ato14.m
Meth Date : 26-Dec-2000 14:40 mim Quant Type: ISTD
Cal Date : 18-DEC-2000 13:44 Cal File: ce010i2.d
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA2.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cond Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
* 28 Chlorobenzene-d5	11.825	3648829	10.000

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ppbv)	FINAL(ppbv)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown aliphatic compound					CAS #:		
13.069	6646591	18.2156781	18	0		0	28(L)
Unknown aliphatic compound					CAS #:		
13.206	6787845	18.6027997	19	0		0	28

RT	AREA	CONCENTRATIONS ON-COL(ppbv)	FINAL(ppbv)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Unknown aliphatic compound				CAS #:			
13.494	9634993	26.4057060	26	0		0	28
Unknown				CAS #:			
13.570	5976825	16.3801130	16	0		0	28
Unknown C3-alkylbenzene				CAS #:			
13.615	6105568	16.7329463	17	0		0	28
Unknown C4-alkylbenzene				CAS #:			
14.056	5161490	14.1456037	14	0		0	28
Unknown C3-alkylbenzene				CAS #:			
14.131	8801393	24.1211362	24	0		0	28
Unknown				CAS #:			
14.314	19768953	54.1788833	54	0		0	28(L)
Unknown C4-alkylbenzene				CAS #:			
14.435	4398821	12.0554282	12	0		0	28
Naphthalene, decahydro-, trans-				CAS #: 493-02-7			
14.738	5496622	15.0640672	15	98	NBS75K.L	65957	28(L)

QC Flag Legend

I - Operator selected an alternate library search match.

Data File: /chem/W.i/Wsvr.p/wceto14.b/440590.d

Date : 18-DEC-2000 17:07

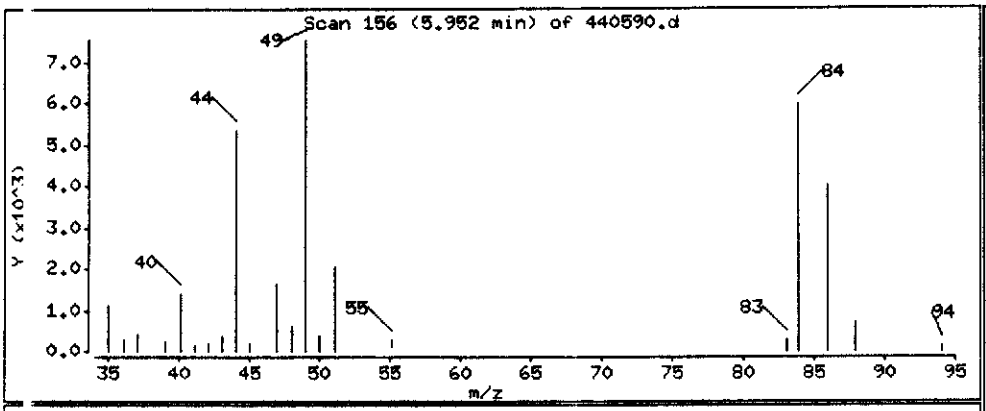
Client ID: A2IA12110007 Instrument: W.i

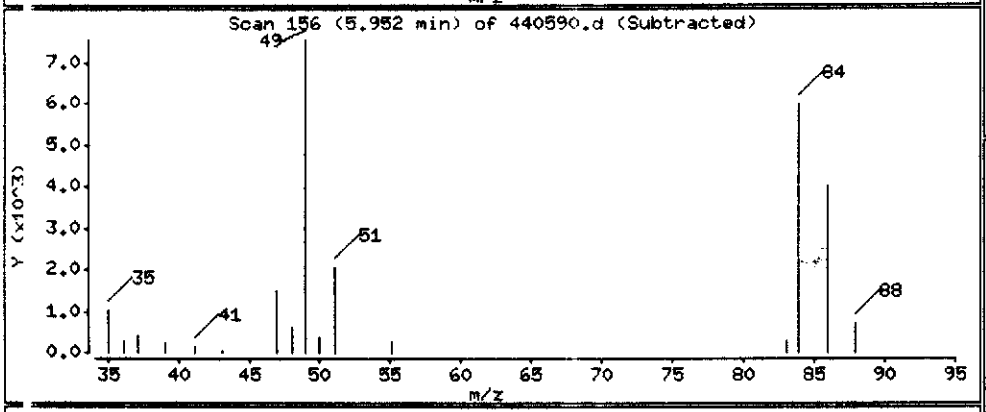
Sample Info: 440590;029ACA2IA12110007;81024;1218L4

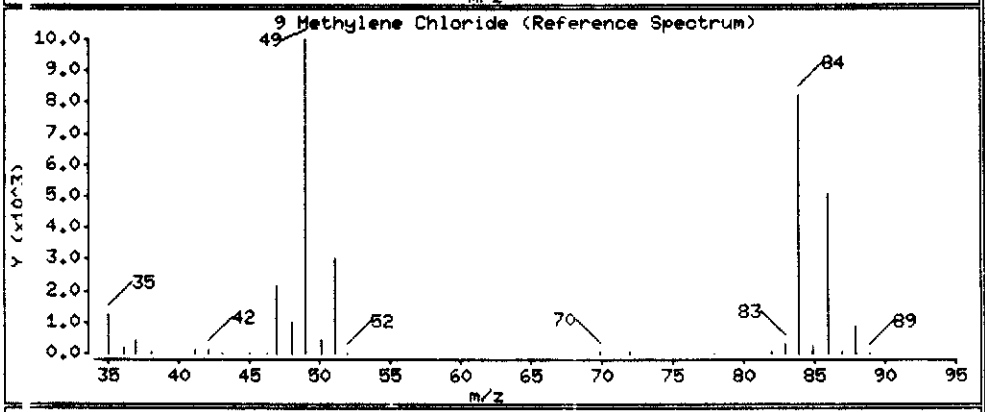
Purge Volume: 200.0 Operator: GMM

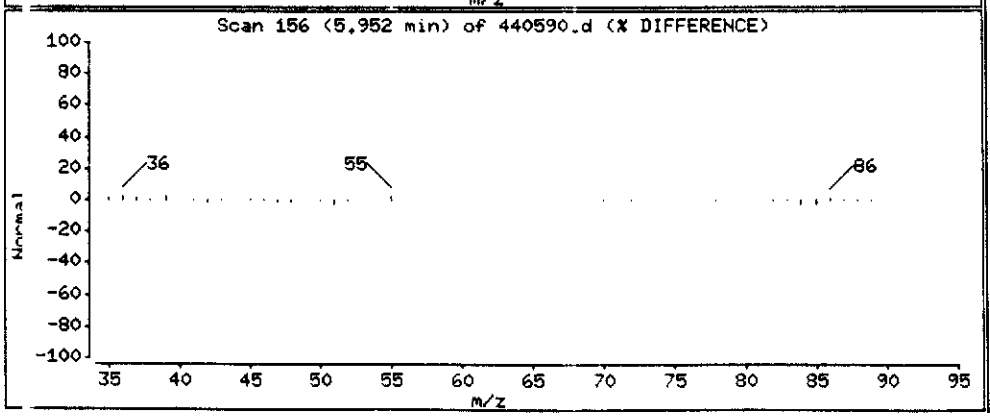
Column phase: DB-1 Column diameter: 0.35

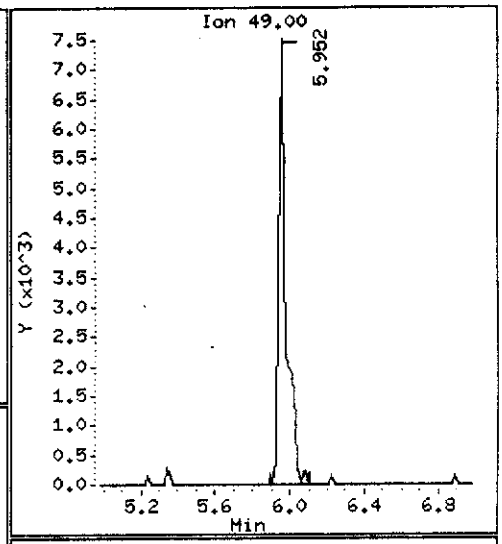
9 Methylene Chloride Concentration: 0.79 ppbv

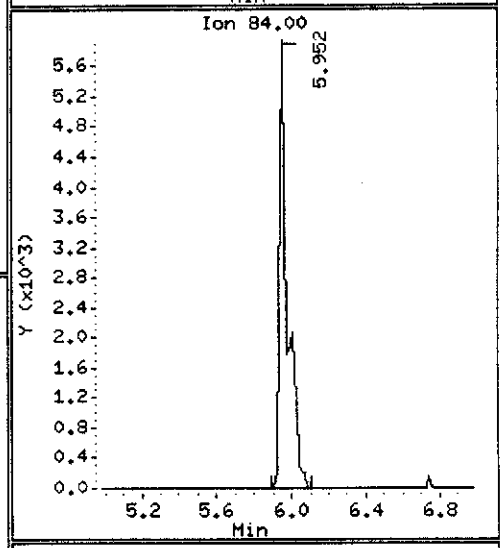


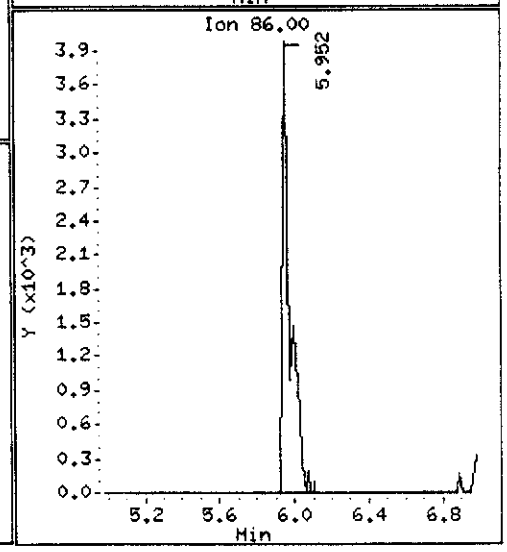












Data File: /chem/W.i/Wsvr.p/wcetc14.b/440590.d

Date : 18-DEC-2000 17:07

Client ID: A2IA12110007

Instrument: W.i

Sample Info: 440590;029ACA2IA12110007;81024;1218L4

Purge Volume: 200.0

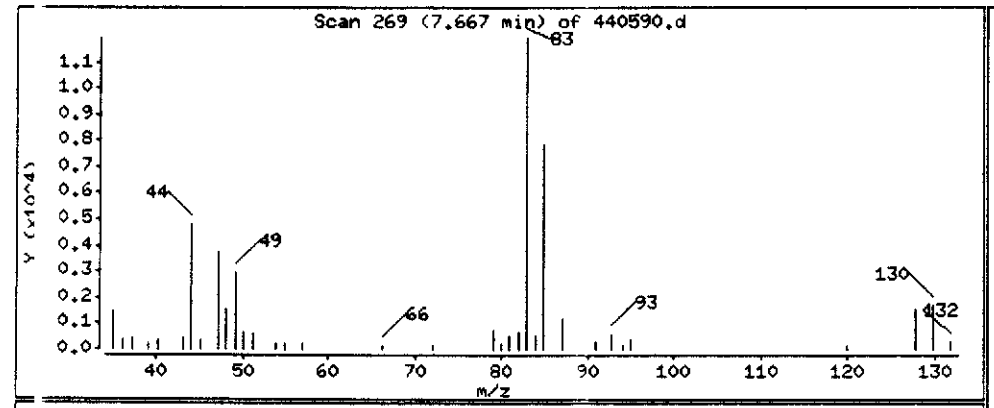
Operator: GHM

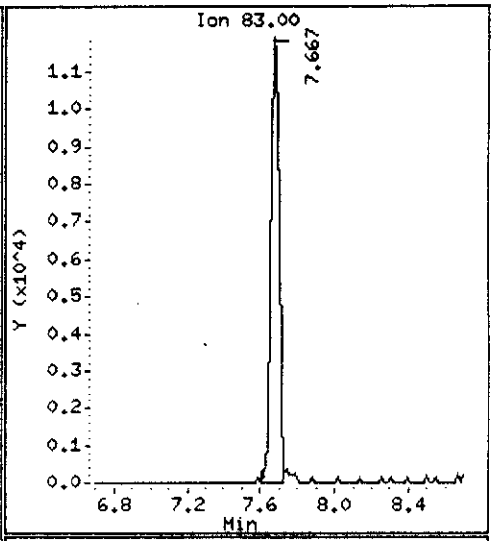
Column phase: DB-1

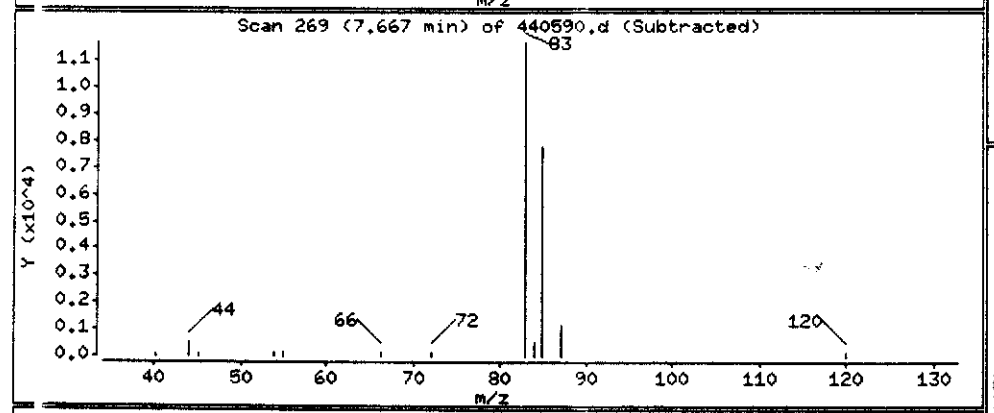
Column diameter: 0.35

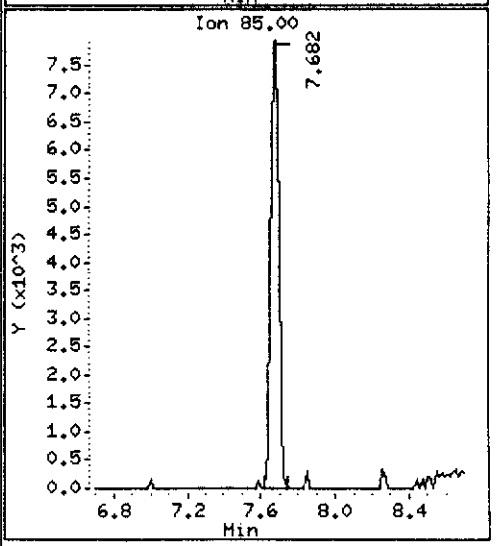
14 Chloroform

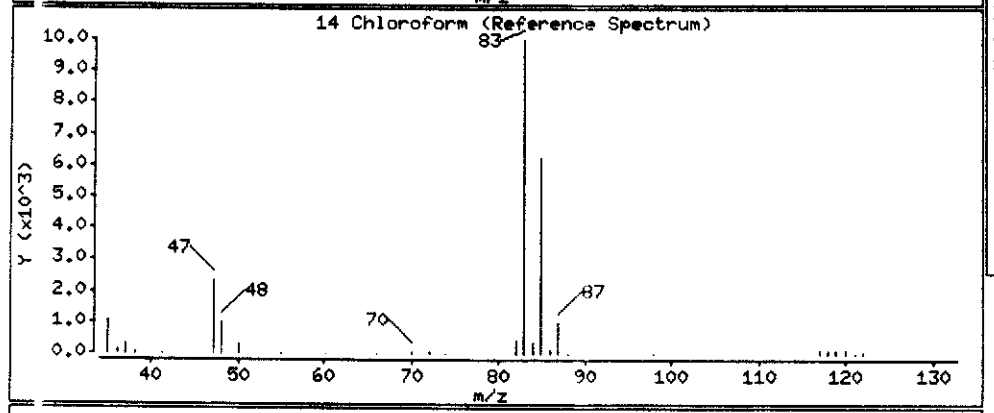
Concentration: 0.67 ppbv

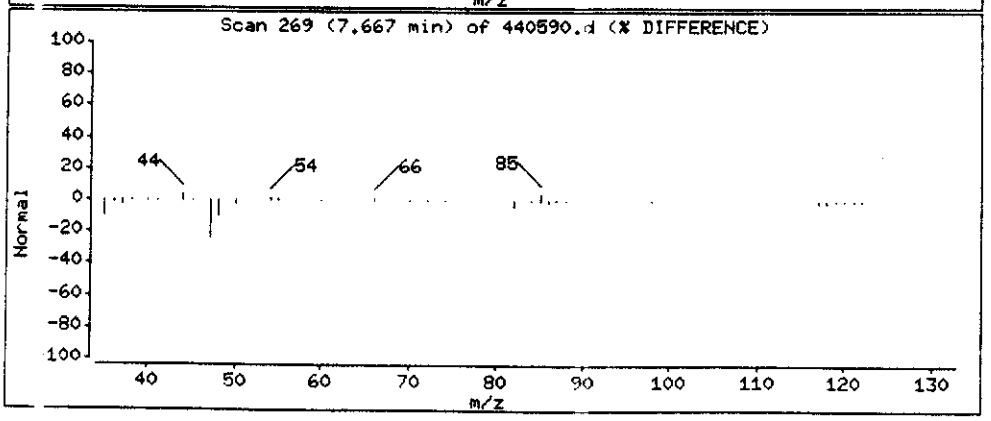












Data File: /chem/W.i/Wsvr.p/wceto14.b/440590.d

Date : 18-DEC-2000 17:07

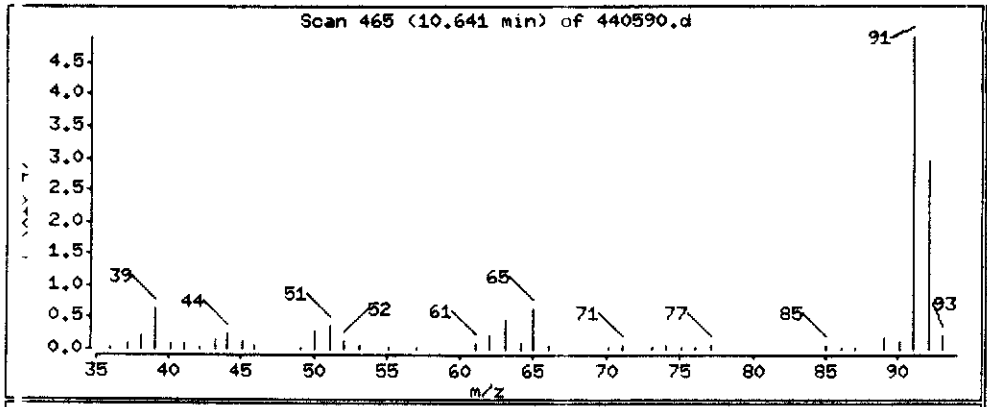
Client ID: A2IA12110007 Instrument: W.i

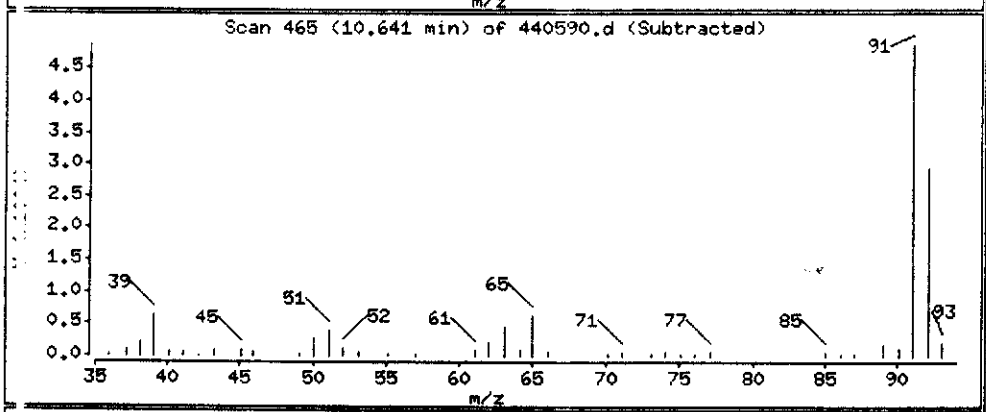
Sample Info: 440590;029ACA2IA12110007;81024;1218L4

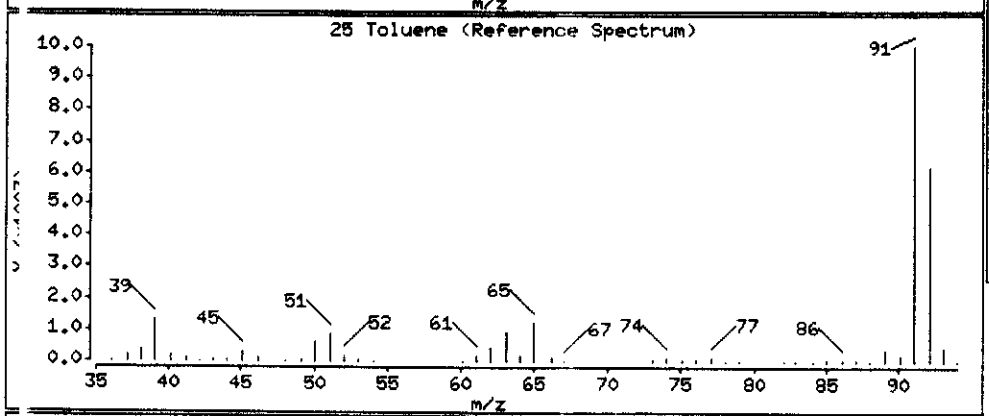
Purge Volume: 200.0 Operator: GMM

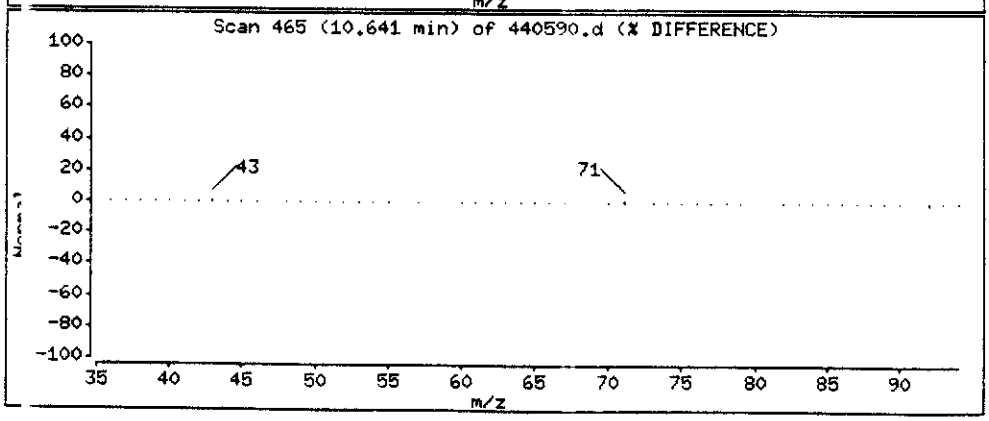
Column phase: DB-1 Column diameter: 0.35

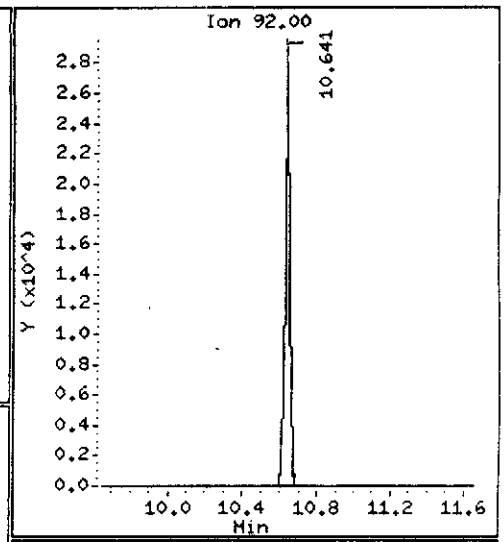
25 Toluene Concentration: 1.2 ppbv

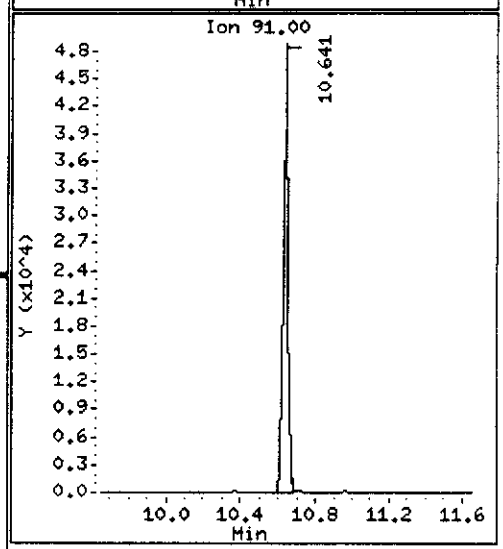












Data File: /chem/W.i/Wsvr.p/wceto14.b/440590.d

Date : 18-DEC-2000 17:07

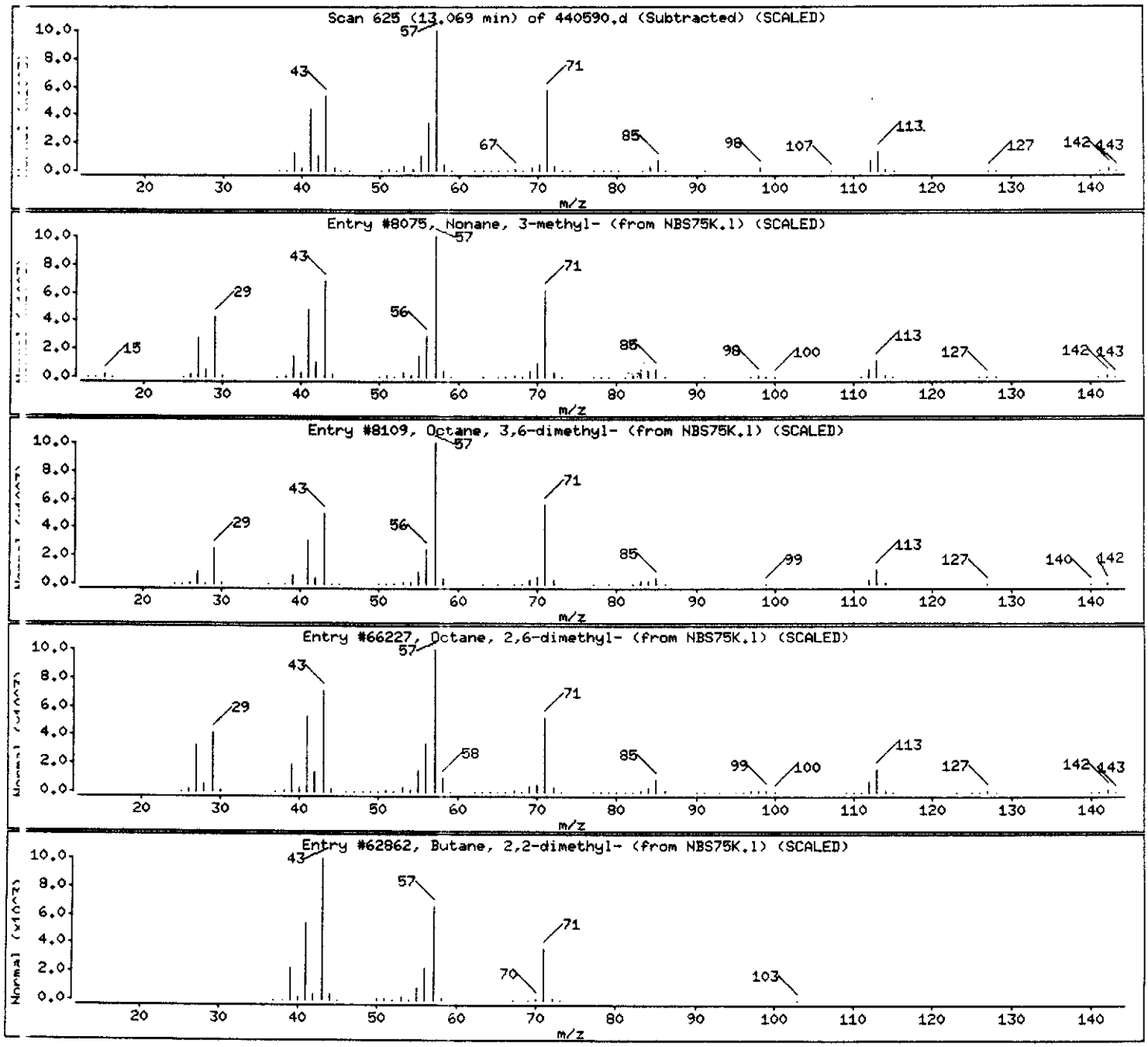
Client ID: A2IA12110007 Instrument: W.i

Sample Info: 440590;029ACA2IA12110007;81024;1218L4

Purge Volume: 200.0 Operator: GMM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown aliphatic compound						
Nonane, 3-methyl-	5911-04-6	NBS75K.l	8075	91	C10H22	142
Octane, 3,6-dimethyl-	15869-94-0	NBS75K.l	8109	87	C10H22	142
Octane, 2,6-dimethyl-	2051-30-1	NBS75K.l	66227	81	C10H22	142
Butane, 2,2-dimethyl-	75-83-2	NBS75K.l	62862	53	C6H14	86



Data File: /chem/W.i/Wsvr.p/wceto14.b/440590.d

Date : 18-DEC-2000 17:07

Client ID: A2IA12110007

Instrument: W.i

Sample Info: 440590;029ACA2IA12110007;81024;1218L4

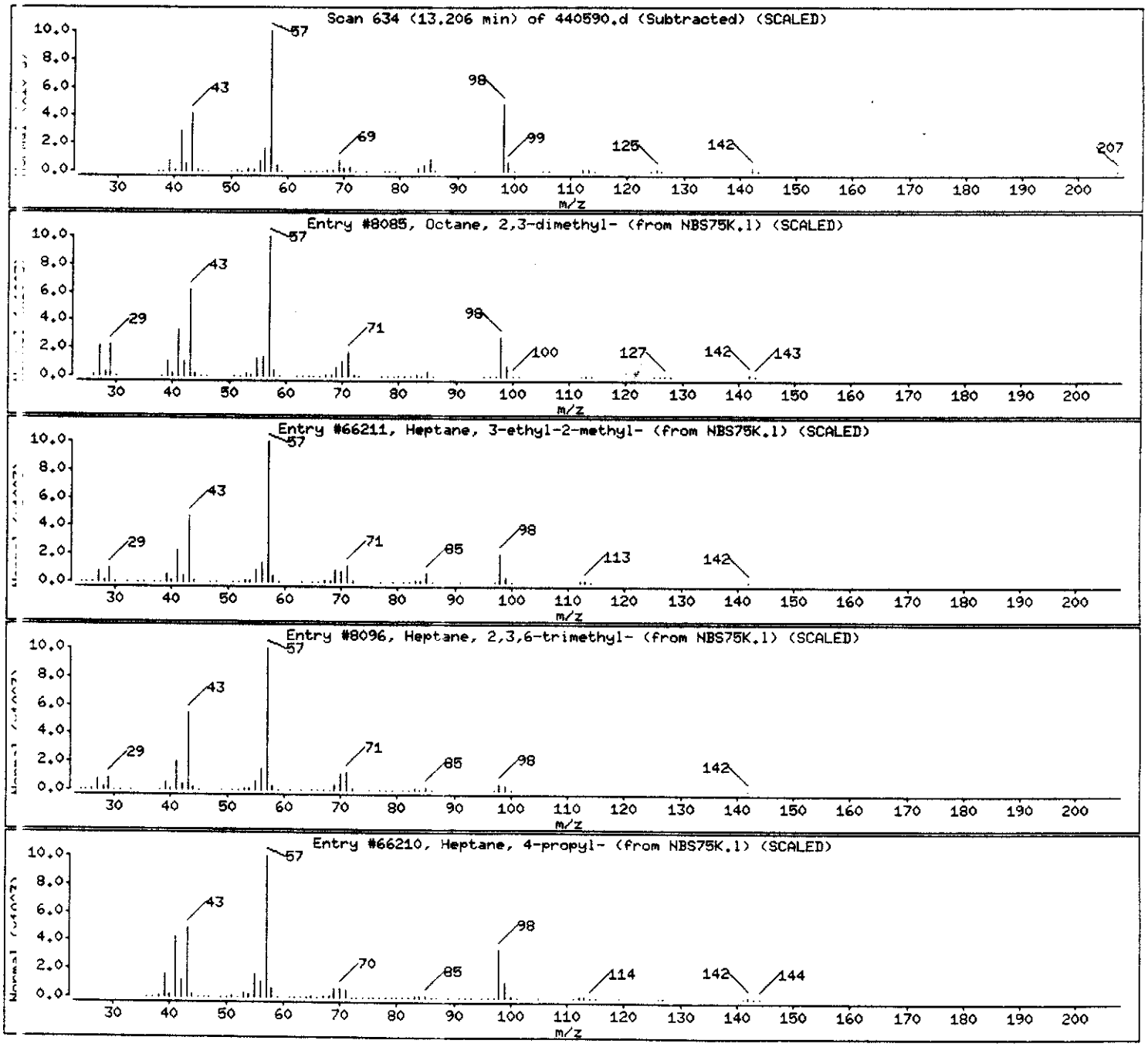
Purge Volume: 200.0

Operator: GMM

Column phase: DB-1

Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown aliphatic compound						
Octane, 2,3-dimethyl-	7146-60-3	NBS75K.1	8085	64	C10H22	142
Heptane, 3-ethyl-2-methyl-	14676-29-0	NBS75K.1	66211	59	C10H22	142
Heptane, 2,3,6-trimethyl-	4032-93-3	NBS75K.1	8096	47	C10H22	142
Heptane, 4-propyl-	3178-29-8	NBS75K.1	66210	45	C10H22	142



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Date : 18-DEC-2000 17:07

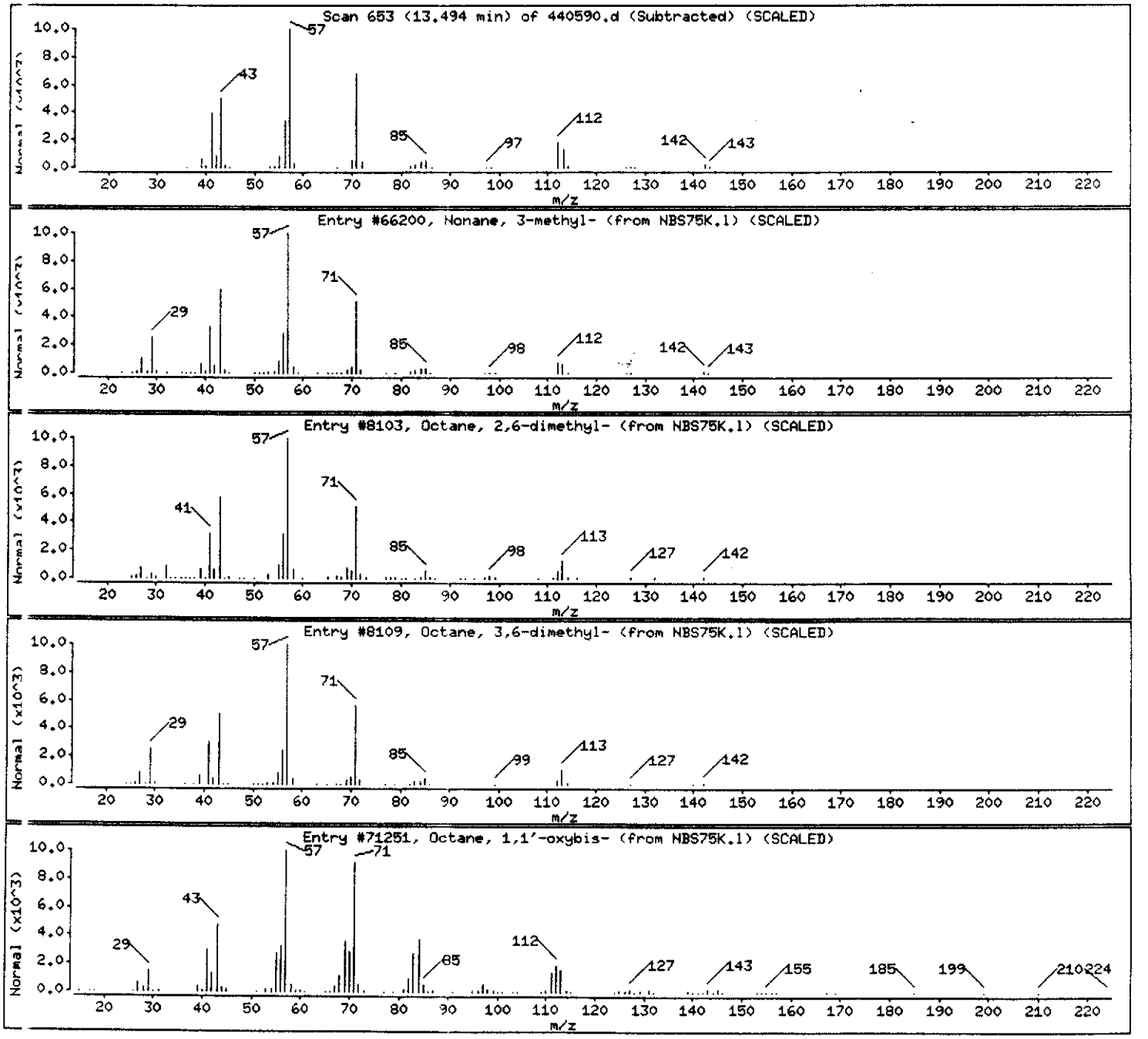
Client ID: A2IA12110007 Instrument: W.i

Sample Info: 440590;029ACA2IA12110007;81024;1218L4

Purge Volume: 200.0 Operator: GMM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown aliphatic compound						
Nonane, 3-methyl-	5911-04-6	NBS75K.l	66200	91	C10H22	142
Octane, 2,6-dimethyl-	2051-30-1	NBS75K.l	8103	78	C10H22	142
Octane, 3,6-dimethyl-	15869-94-0	NBS75K.l	8109	72	C10H22	142
Octane, 1,1'-oxybis-	629-82-3	NBS75K.l	71251	64	C16H340	242



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Date : 18-DEC-2000 17:07

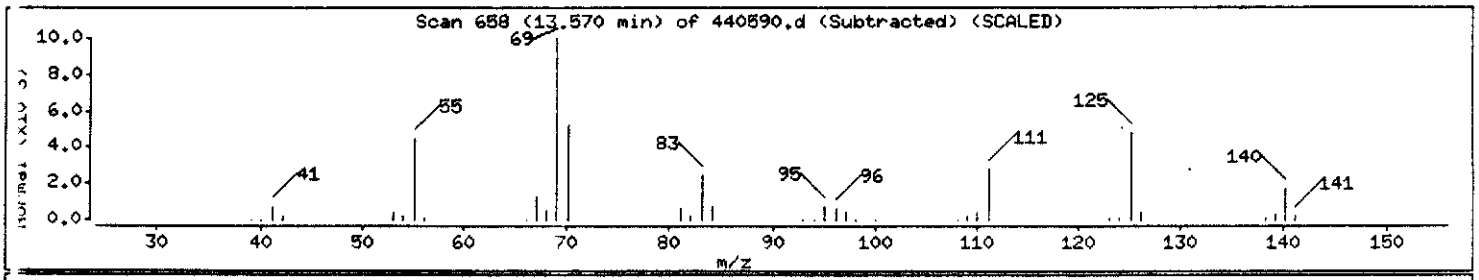
Client ID: A2IA12110007 Instrument: W.i

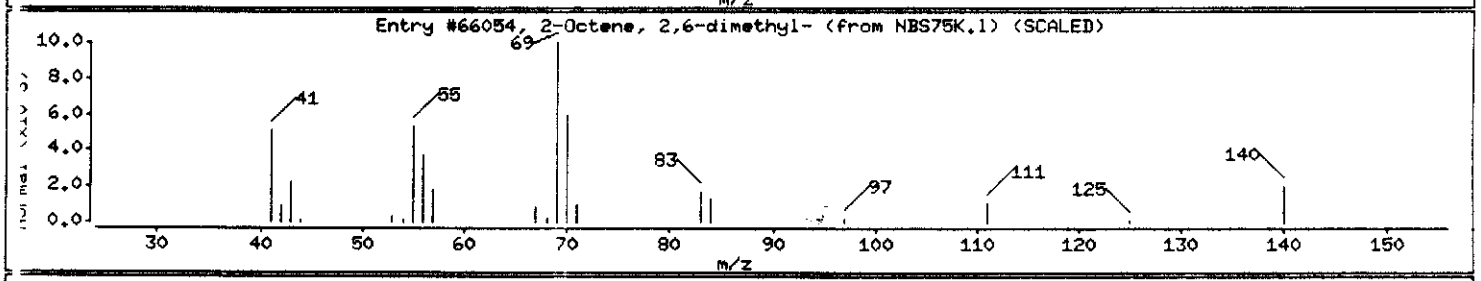
Sample Info: 440590;029ACA2IA12110007;81024;1218L4

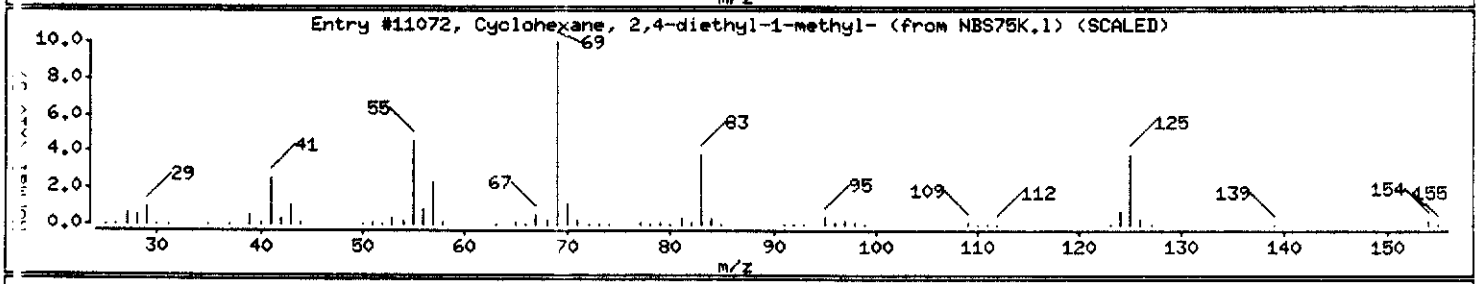
Purge Volume: 200.0 Operator: GMM

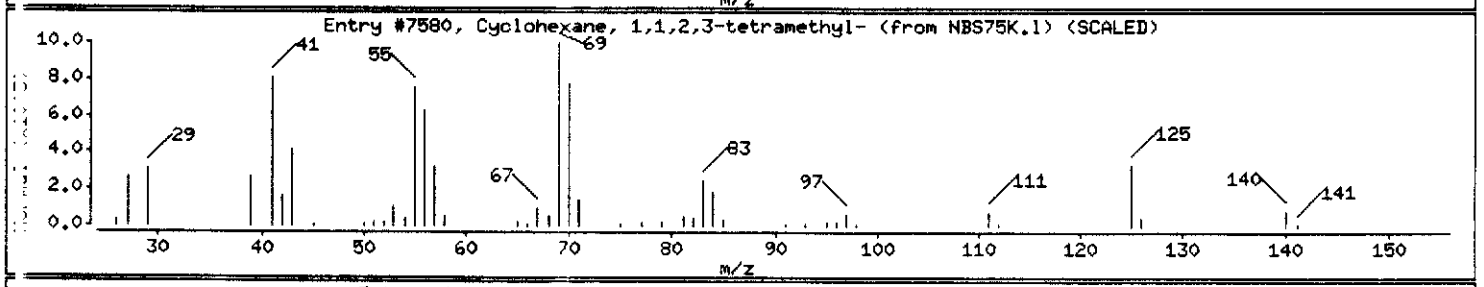
Column phase: DB-1 Column diameter: 0.35

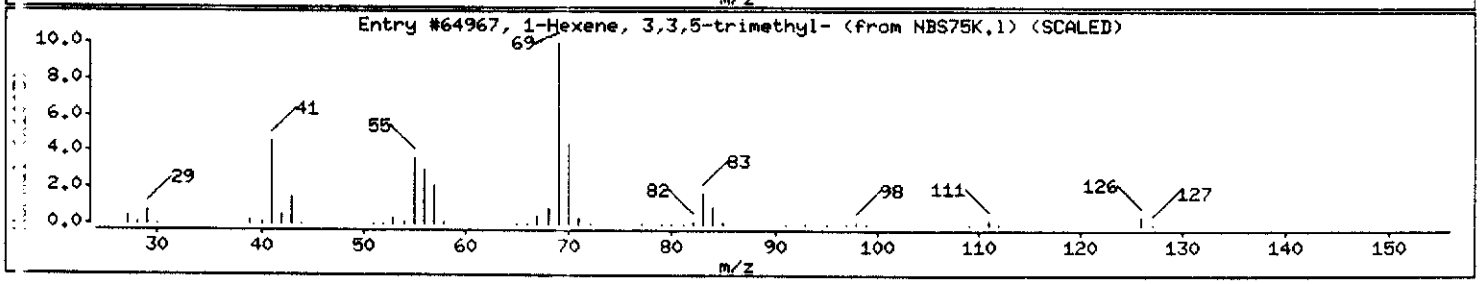
Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
2-Octene, 2,6-dimethyl-	4057-42-5	NBS75K.1	66054	53	C10H20	140
Cyclohexane, 2,4-diethyl-1-methyl-	61142-70-9	NBS75K.1	11072	47	C11H22	154
Cyclohexane, 1,1,2,3-tetramethyl-	6783-92-2	NBS75K.1	7580	42	C10H20	140
1-Hexene, 3,3,5-trimethyl-	13427-43-5	NBS75K.1	64967	40	C9H18	126











Data File: /chem/W.i/Wsvr.p/wceto14.b/440590.d

Date : 18-DEC-2000 17:07

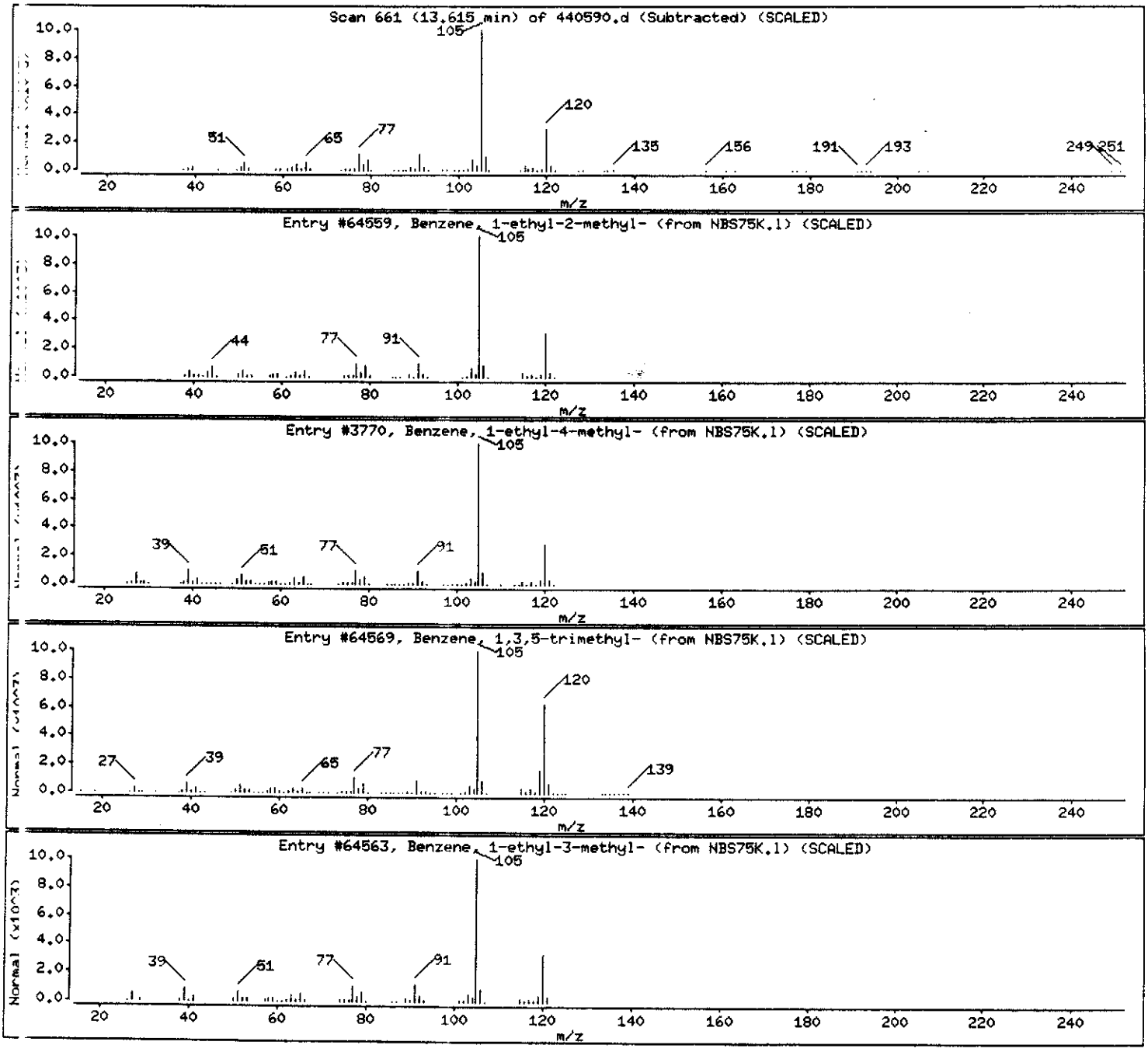
Client ID: A2IA12110007 Instrument: W.i

Sample Info: 440590;029ACA2IA12110007;81024;1218L4

Purge Volume: 200.0 Operator: GMM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown C3-alkylbenzene						
Benzene, 1-ethyl-2-methyl-	611-14-3	NBS75K.1	64559	94	C9H12	120
Benzene, 1-ethyl-4-methyl-	622-96-8	NBS75K.1	3770	93	C9H12	120
Benzene, 1,3,5-trimethyl-	108-67-8	NBS75K.1	64569	90	C9H12	120
Benzene, 1-ethyl-3-methyl-	620-14-4	NBS75K.1	64563	90	C9H12	120



Data File: /chem/W.i/Wsvr.p/wceto14.b/440590.d

Date : 18-DEC-2000 17:07

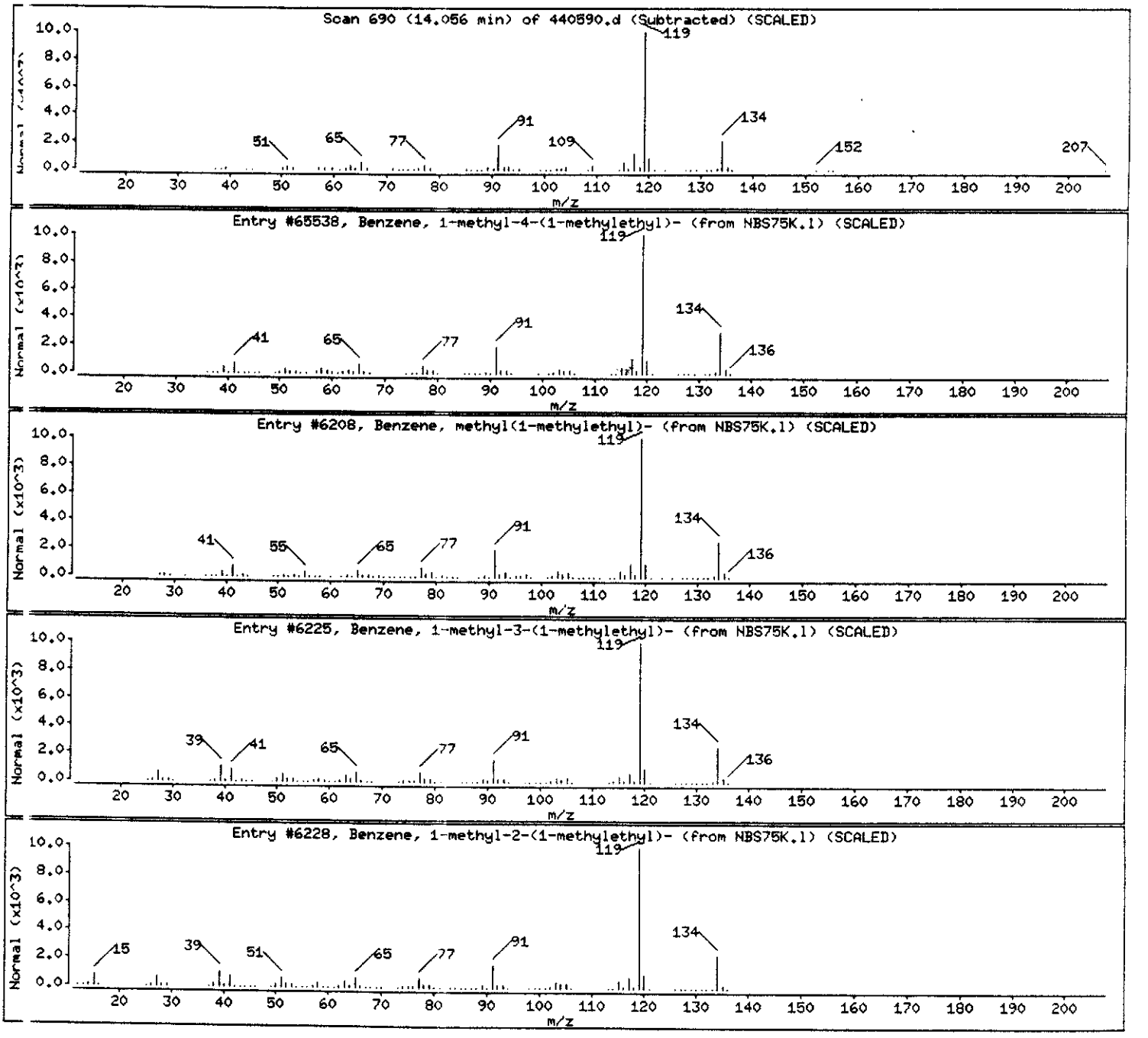
Client ID: A2IA12110007 Instrument: W.i

Sample Info: 440590;029ACA2IA12110007;81024;1218L4

Purge Volume: 200.0 Operator: GMM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown C4-alkylbenzene						
Benzene, 1-methyl-4-(1-methylethyl)-	99-87-6	NBS75K.l	65538	91	C10H14	134
Benzene, methyl(1-methylethyl)-	25155-15-1	NBS75K.l	6208	91	C10H14	134
Benzene, 1-methyl-3-(1-methylethyl)-	535-77-3	NBS75K.l	6225	91	C10H14	134
Benzene, 1-methyl-2-(1-methylethyl)-	527-84-4	NBS75K.l	6228	91	C10H14	134



Data File: /chem/W.i/Wsvr.p/wceto14.b/440590.d

Date : 18-DEC-2000 17:07

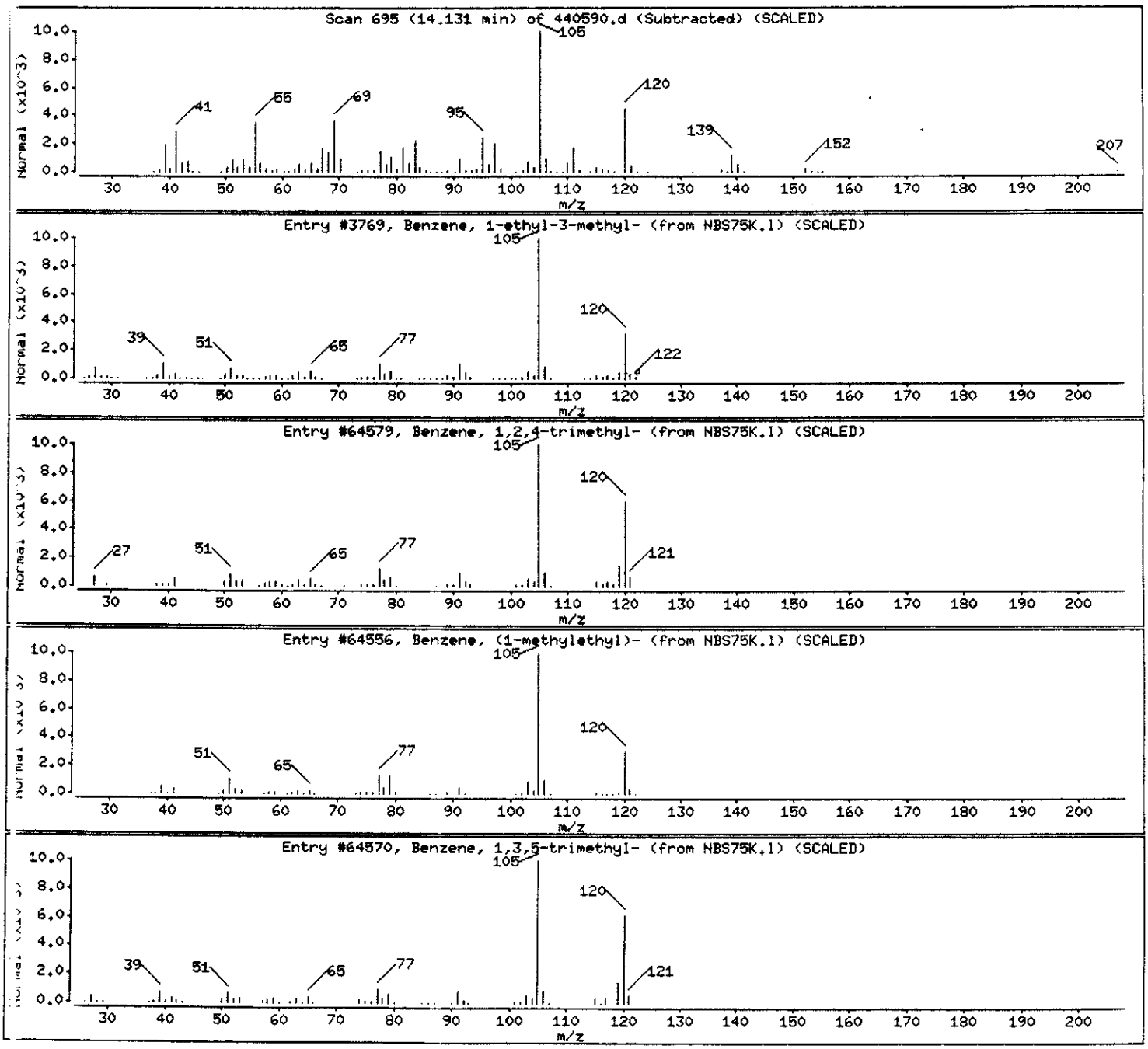
Client ID: A2IA12110007 Instrument: W.i

Sample Info: 440590;029ACA2IA12110007;81024;1218L4

Purge Volume: 200.0 Operator: GHM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown C3-alkylbenzene						
Benzene, 1-ethyl-3-methyl-	620-14-4	NBS75K.l	3769	46	C9H12	120
Benzene, 1,2,4-trimethyl-	95-63-6	NBS75K.l	64579	46	C9H12	120
Benzene, (1-methylethyl)-	98-82-8	NBS75K.l	64556	46	C9H12	120
Benzene, 1,3,5-trimethyl-	108-67-8	NBS75K.l	64570	46	C9H12	120



Data File: /chem/W.i/Wsvr.p/wceto14.b/440590.d

Date : 18-DEC-2000 17:07

Client ID: A2IA12110007

Instrument: W.i

Sample Info: 440590:029ACA2IA12110007:81024:1218L4

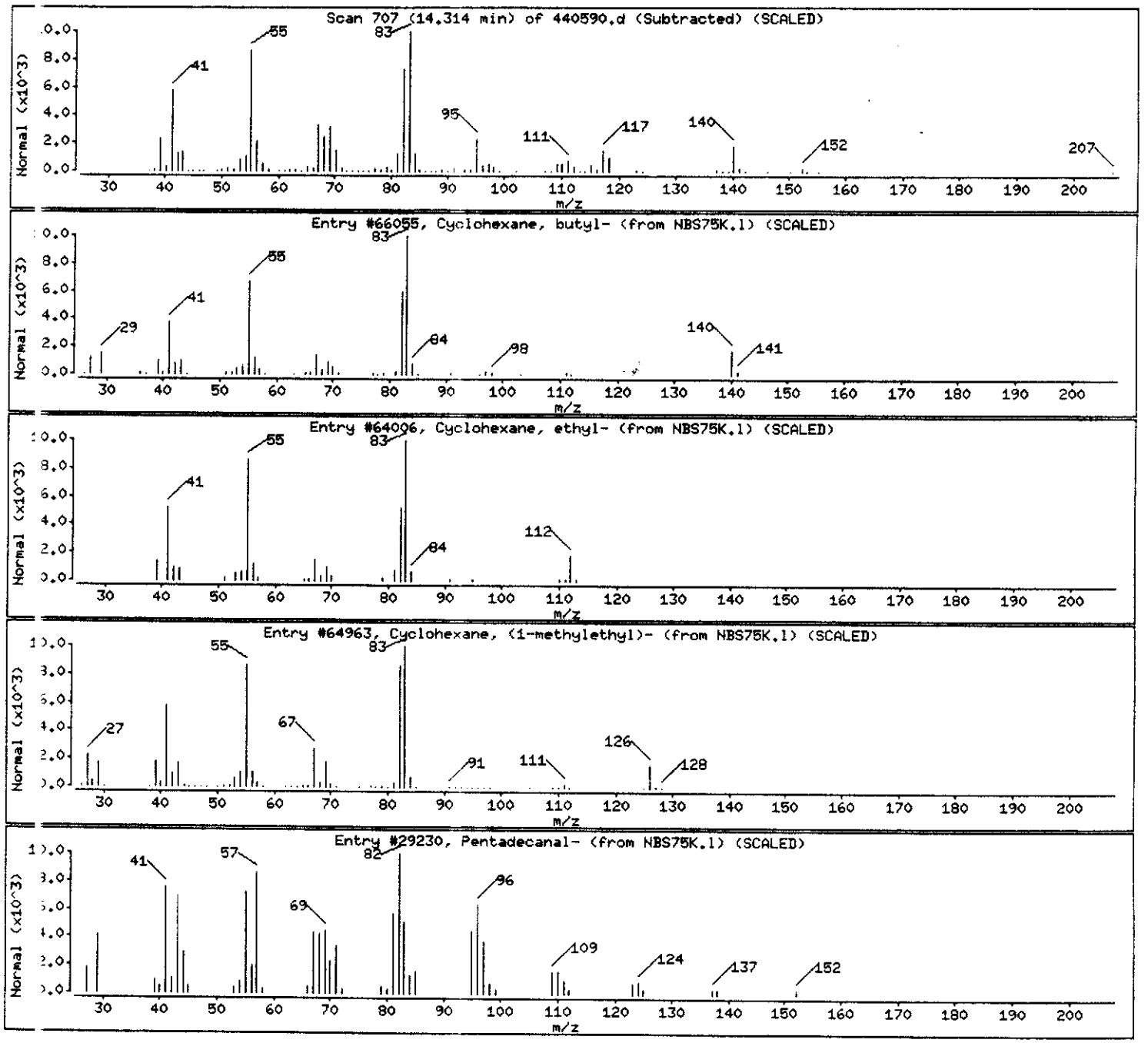
Purge Volume: 200.0

Operator: GHM

Column phase: DB-1

Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Cyclohexane, butyl-	1678-93-9	NBS75K.l	66055	70	C10H20	140
Cyclohexane, ethyl-	1678-91-7	NBS75K.l	64006	53	C8H16	112
Cyclohexane, (1-methylethyl)-	696-29-7	NBS75K.l	64963	53	C9H18	126
Pentadecanal-	2765-11-9	NBS75K.l	29230	52	C15H30O	226



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Date : 18-DEC-2000 17:07

Client ID: A2IA12110007

Instrument: W.i

Sample Info: 440590;029ACA2IA12110007;81024;1218L4

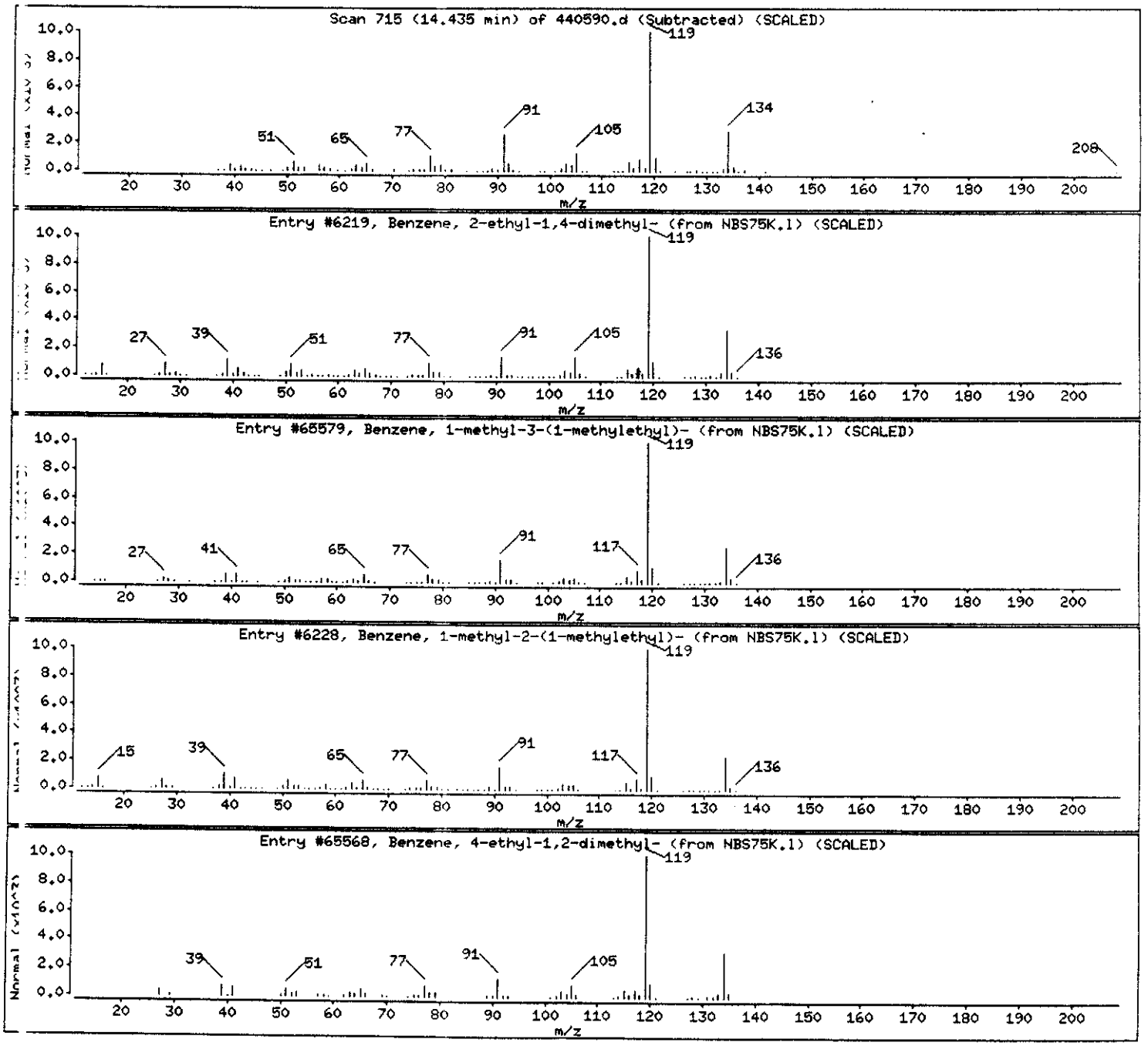
Purge Volume: 200.0

Operator: GMM

Column phase: DB-1

Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown C4-alkylbenzene						
Benzene, 2-ethyl-1,4-dimethyl-	1758-88-9	NBS75K.l	6219	94	C10H14	134
Benzene, 1-methyl-3-(1-methylethyl)-	535-77-3	NBS75K.l	65579	94	C10H14	134
Benzene, 1-methyl-2-(1-methylethyl)-	527-84-4	NBS75K.l	6228	93	C10H14	134
Benzene, 4-ethyl-1,2-dimethyl-	934-80-5	NBS75K.l	65568	93	C10H14	134



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Date : 18-DEC-2000 17:07

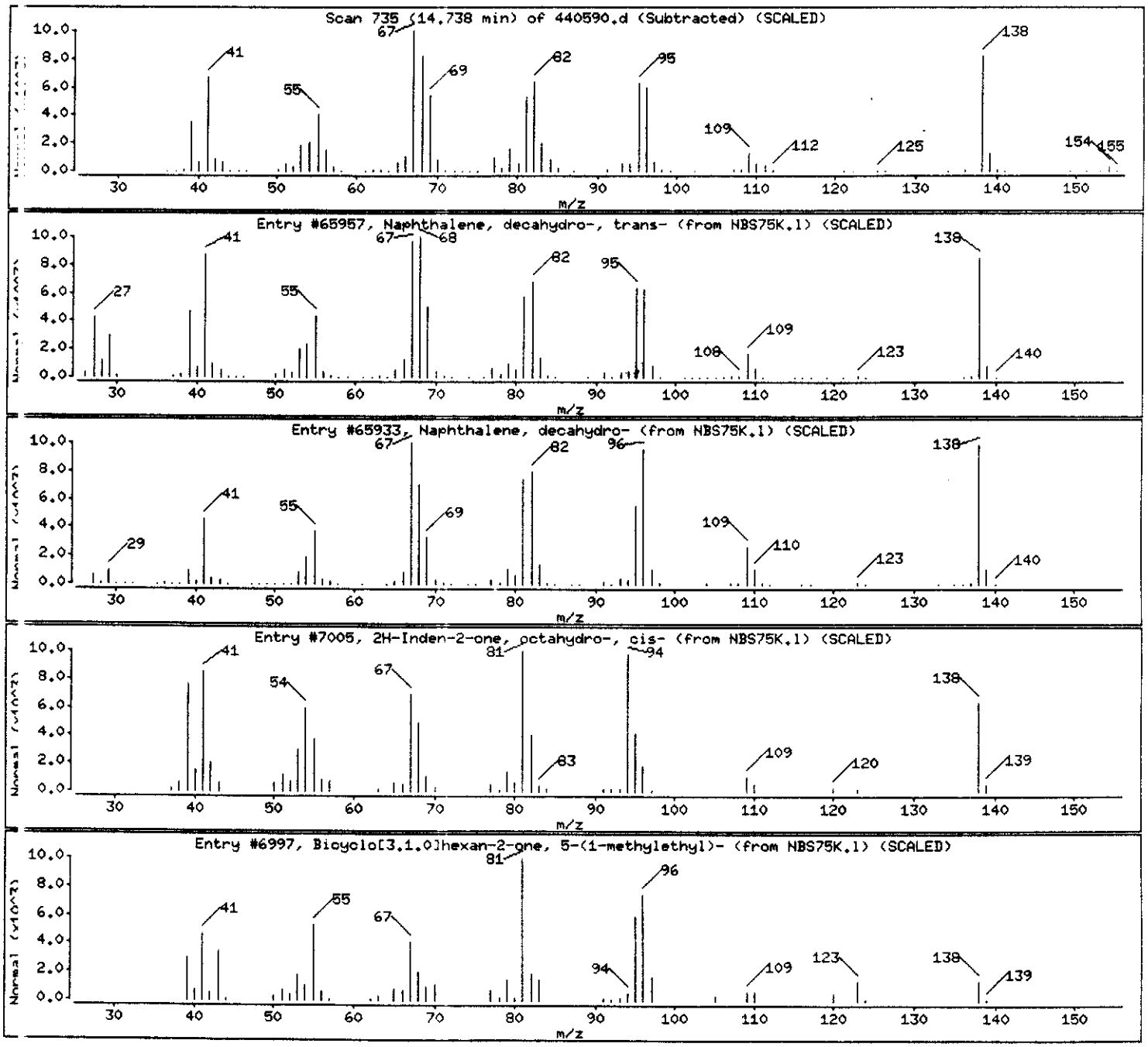
Client ID: A2IA12110007 Instrument: W.i

Sample Info: 440590;029ACA2IA12110007;81024;1218L4

Purge Volume: 200.0 Operator: GMM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Naphthalene, decahydro-, trans-	493-02-7	NBS75K.1	65957	98	C10H18	138
Naphthalene, decahydro-	91-17-8	NBS75K.1	65933	81	C10H18	138
2H-Inden-2-one, octahydro-, cis-	5689-04-3	NBS75K.1	7005	80	C9H140	138
Bicyclo[3.1.0]hexan-2-one, 5-(1-methylet	513-20-2	NBS75K.1	6997	72	C9H140	138



FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ACCANA SAMPLE NO.

CAEA12110007

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81024

Matrix: (soil/water) AIR Lab Sample ID: 440591

Sample wt/vol: 200 (g/mL) ML Lab File ID: 440591

Level: (low/med) LOW Date Received: 12/15/00

% Moisture: not dec. _____ Date Analyzed: 12/18/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.80	
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	
75-09-2	Methylene Chloride	1.2	
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
67-66-3	Chloroform	1.3	
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.86	
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	16	
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	32	
1330-20-7	Xylene (total)	13	
100-42-5	Styrene	0.50	U
1330-20-7	Xylene (m,p)	13	
95-47-6	Xylene (o)	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ACCANA SAMPLE NO.

CAEA12110007

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81024

Matrix: (soil/water) AIR Lab Sample ID: 440591

Sample wt/vol: 200 (g/mL) ML Lab File ID: 440591

Level: (low/med) LOW Date Received: 12/15/00

% Moisture: not dec. _____ Date Analyzed: 12/18/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 10

CONCENTRATION UNITS:
(ug/L or ug/Kg) ppbv

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN ALIPHATIC COMPOUND	10.72	5.8	J
2. 111-65-9	OCTANE	11.25	18	NJ
3.	UNKNOWN ALIPHATIC COMPOUND	11.70	6.4	J
4.	UNKNOWN ALIPHATIC COMPOUND	11.95	37	J
5.	UNKNOWN ALKYLCYCLOHEXANE	12.16	5.6	J
6.	UNKNOWN ALKYLCYCLOHEXANE	12.49	5.5	J
7.	UNKNOWN	12.55	5.6	J
8.	UNKNOWN ALIPHATIC COMPOUND	12.61	10	J
9.	UNKNOWN ALKYLCYCLOHEXANE	12.89	9.1	J
10.	UNKNOWN	13.07	11	J
11.				
12.				
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14.				
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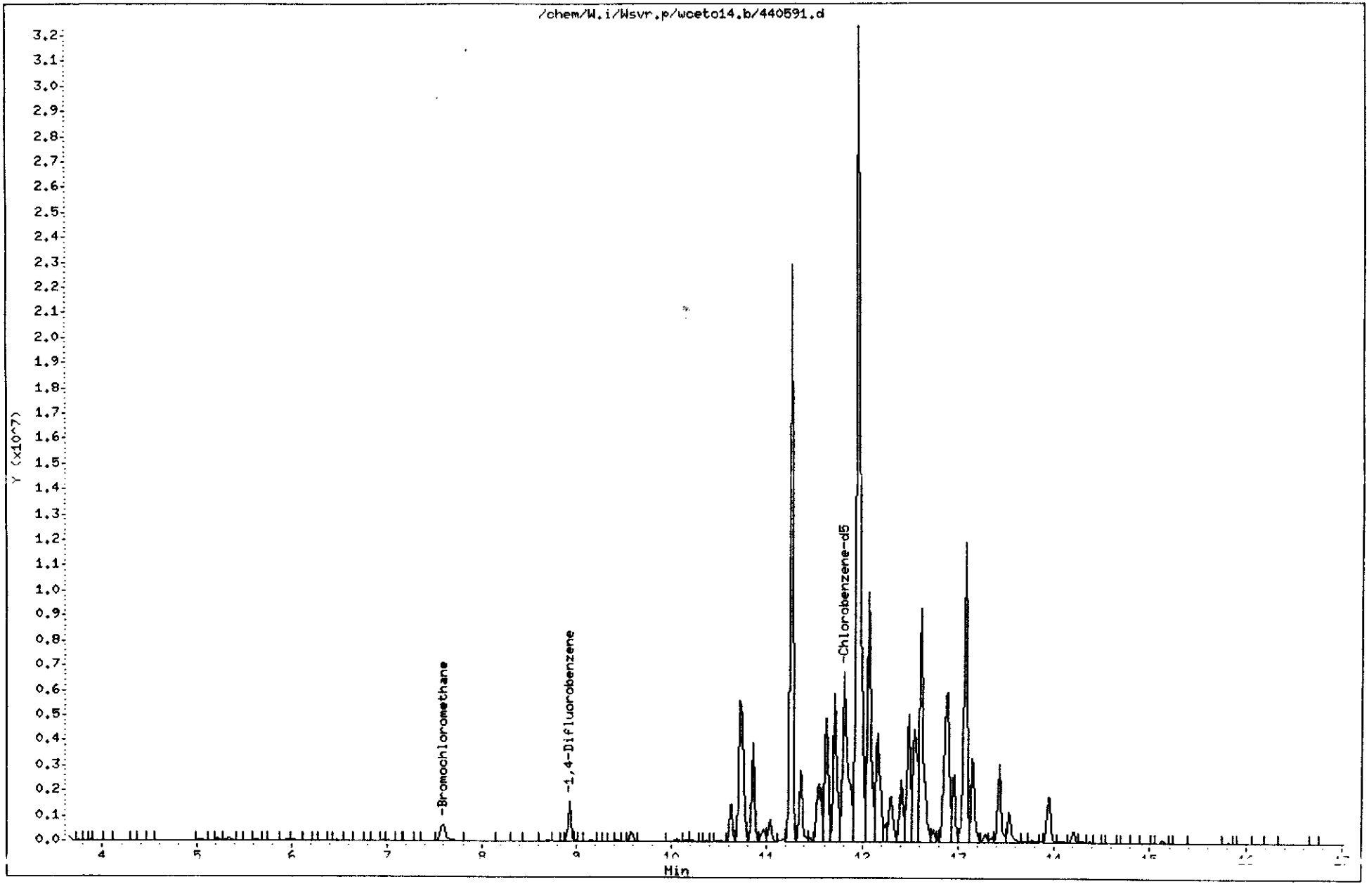
Data File: /chem/W.i/Wsvr.p/wceto14.b/440591.d
Date : 18-DEC-2000 17:41
Client ID: CAEA12110007
Sample Info: 440591;029ACAEA12110007;81024;1218L4
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i
Operator: GMM
Column diameter: 0.35



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STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wceto14.b/440591.d
Lab Smp Id: 440591 Client Smp ID: CAEA12110007
Inj Date : 18-DEC-2000 17:41
Operator : GMM Inst ID: W.i
Smp Info : 440591;029ACAEA12110007;81024;1218L4
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wceto14.b/ato14.m
Meth Date : 26-Dec-2000 14:40 mim Quant Type: ISTD
Cal Date : 18-DEC-2000 13:44 Cal File: ce010i2.d
Als bottle: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA2.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cond Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
2 Chloromethane	50	3.911	3.955	(0.516)	14884	0.80376	0.80
4 Vinyl Chloride	62	Compound Not Detected.					
5 Bromomethane	94	Compound Not Detected.					
6 Chloroethane	64	Compound Not Detected.					
7 Trichlorofluoromethane	101	5.344	5.375	(0.706)	35252	0.50433	0.50(M)
9 Methylene Chloride	49	5.951	5.982	(0.786)	38133	1.25834	1.2(MH)
11 1,1-Dichloroethane	63	Compound Not Detected.					
12 cis-1,2-Dichloroethene	61	Compound Not Detected.					
* 13 Bromochloromethane	128	7.575	7.621	(1.000)	312119	10.0000	
14 Chloroform	83	7.666	7.697	(1.012)	80438	1.30948	1.3
15 1,2-Dichloroethane	62	Compound Not Detected.					
16 1,1,1-Trichloroethane	97	Compound Not Detected.					
17 Benzene	78	8.698	8.744	(0.974)	62787	0.86596	0.86
18 Carbon Tetrachloride	117	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
*	19 1,4-Difluorobenzene	114	8.926	8.956	(1.000)	1270164	10.0000	
	20 1,2-Dichloropropane	63	Compound Not Detected.					
	21 Trichloroethene	95	Compound Not Detected.					
	22 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	23 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	24 1,1,2-Trichloroethane	83	Compound Not Detected.					
	25 Toluene	92	10.625	10.656	(0.900)	801492	16.1966	16
	27 Tetrachloroethene	166	Compound Not Detected.					
*	28 Chlorobenzene-d5	117	11.809	11.840	(1.000)	1247750	10.0000	
	29 Chlorobenzene	112	Compound Not Detected.					
	30 Ethylbenzene	91	12.082	12.098	(1.023)	3677829	32.3022	32
	31 Xylene (m,p)	106	12.188	12.219	(1.032)	530842	12.8982	13
	32 Styrene	104	Compound Not Detected.					
M	33 Xylene (total)	106				530842	12.8982	13
	34 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	35 Xylene (o)	106	Compound Not Detected.					
	38 1,3-Dichlorobenzene	146	Compound Not Detected.					
	39 1,4-Dichlorobenzene	146	Compound Not Detected.					
	40 1,2-Dichlorobenzene	146	Compound Not Detected.					

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

mum 12/26/00

STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wceto14.b/440591.d
Lab Smp Id: 440591 Client Smp ID: CAEA12110007
Inj Date : 18-DEC-2000 17:41
Operator : GMM Inst ID: W.i
Smp Info : 440591;029ACAEA12110007;81024;1218L4
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wceto14.b/ato14.m
Meth Date : 26-Dec-2000 14:40 mim Quant Type: ISTD
Cal Date : 18-DEC-2000 13:44 Cal File: ce010i2.d
Als bottle: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA2.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
* 28 Chlorobenzene-d5	11.809	26188165	10.000

	CONCENTRATIONS				QUANT			
	RT	AREA	ON-COL(ppbv)	FINAL(ppbv)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown aliphatic compound					CAS #:			
	10.716	15172747	5.79374182	5.8	0		0	28
Octane					CAS #: 111-65-9			
	11.248	46468651	17.7441408	18	91	NBS75K.l	64209	28

RT	AREA	CONCENTRATIONS ON-COL(ppbv)	FINAL(ppbv)	QUAL	LIBRARY	QUANT LIB ENTRY	CPND #
Unknown aliphatic compound				CAS #:			
1.703	16727804	6.38754313	6.4	0		0	28
Unknown aliphatic compound				CAS #:			
1.946	95887038	36.6146442	37	0		0	28(L)
Unknown alkylcyclohexane				CAS #:			
2.158	14723754	5.62229300	5.6	0		0	28(L)
Unknown alkylcyclohexane				CAS #:			
2.492	14305765	5.46268322	5.5	0		0	28(L)
Unknown				CAS #:			
2.553	14615642	5.58101028	5.6	0		0	28(L)
Unknown aliphatic compound				CAS #:			
2.613	27718132	10.5842205	10	0		0	28(L)
Unknown alkylcyclohexane				CAS #:			
2.887	23891754	9.12311080	9.1	0		0	28(L)
Unknown				CAS #:			
3.069	29828196	11.3899521	11	0		0	28

QC Flag Legend

L - Operator selected an alternate library search match.

Data File: /chem/W.i/Wsvr.p/wceto14.b/440591.d

Date : 18-DEC-2000 17:41

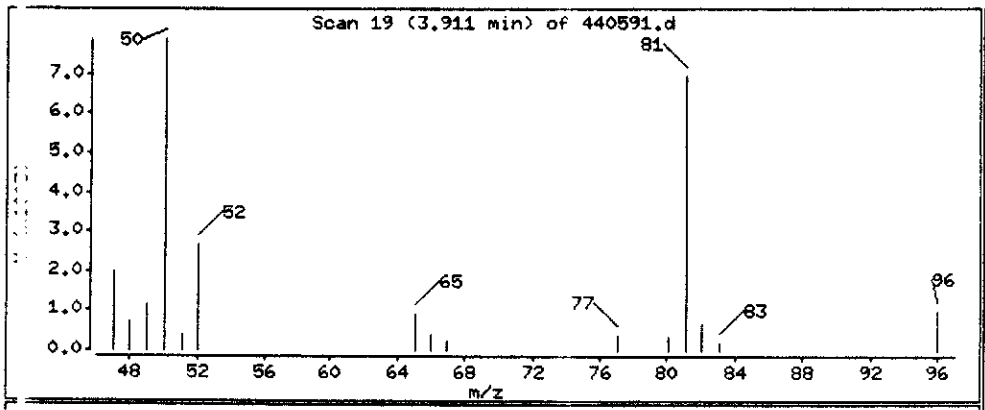
Client ID: CAEA12110007 Instrument: W.i

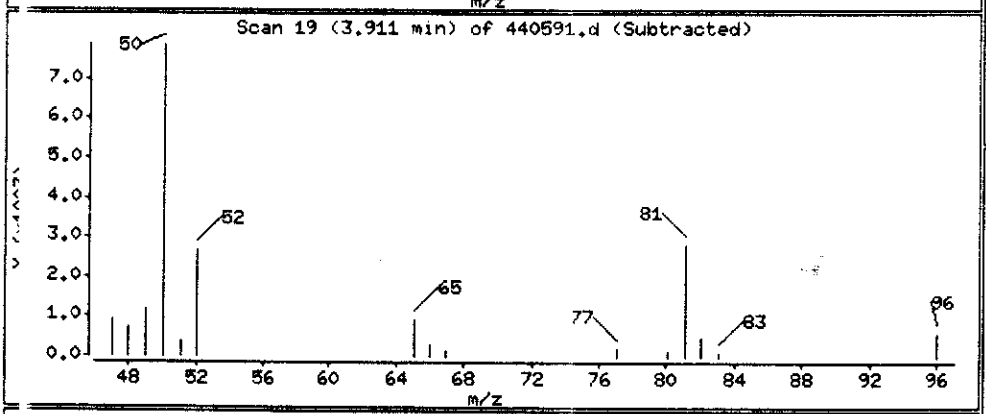
Sample Info: 440591;029ACAEA12110007;81024;1218L4

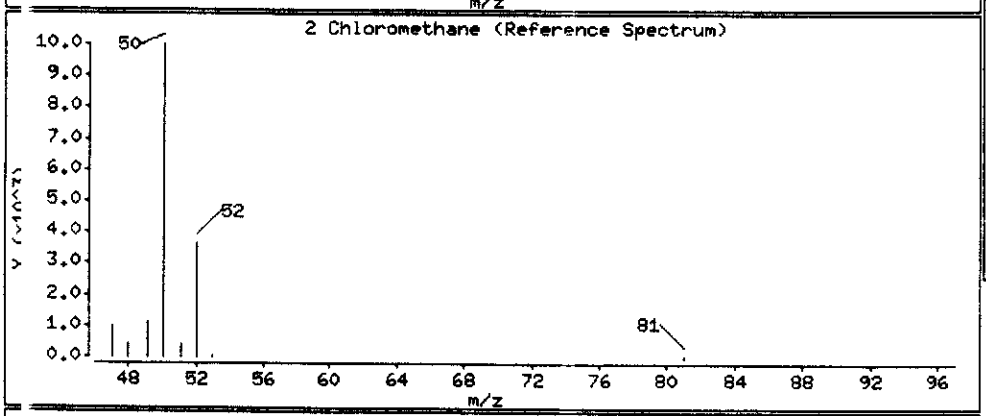
Purge Volume: 200.0 Operator: GMM

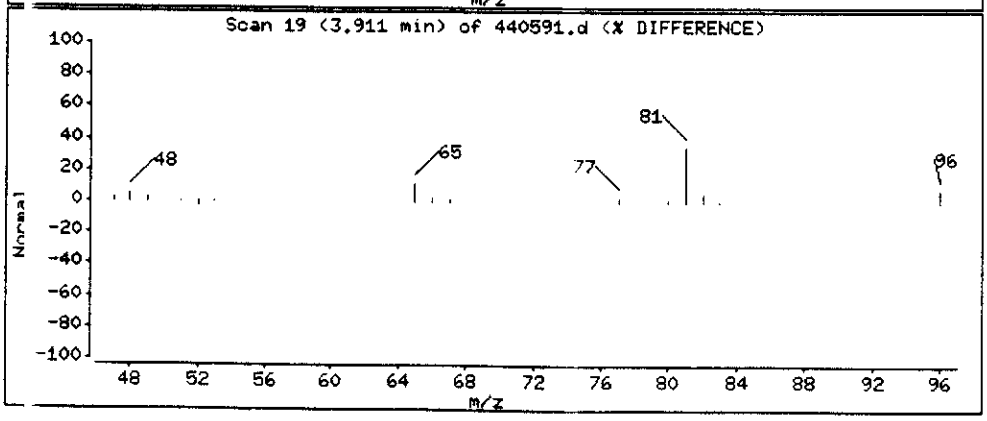
Column phase: DB-1 Column diameter: 0.35

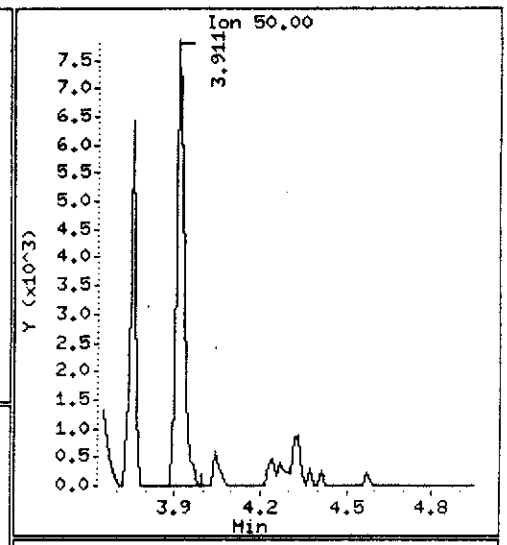
2 Chloromethane Concentration: 0.80 ppbv

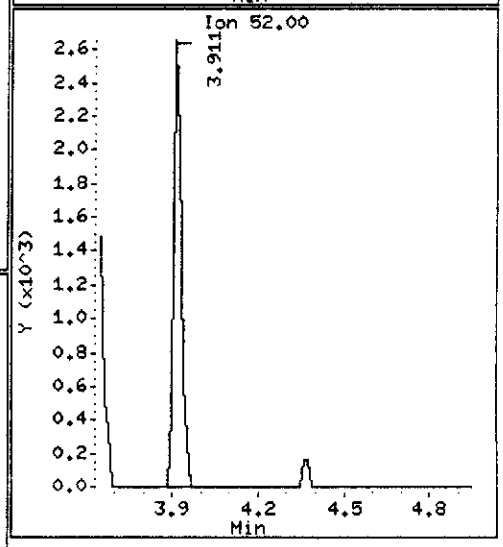












Data File: /chem/W.i/Wsvr.p/wcato14.b/440591.d

Date : 18-DEC-2000 17:41

Client ID: CAEA12110007

Instrument: W.i

Sample Info: 440591;029ACAEA12110007;81024;1218L4

Purge Volume: 200.0

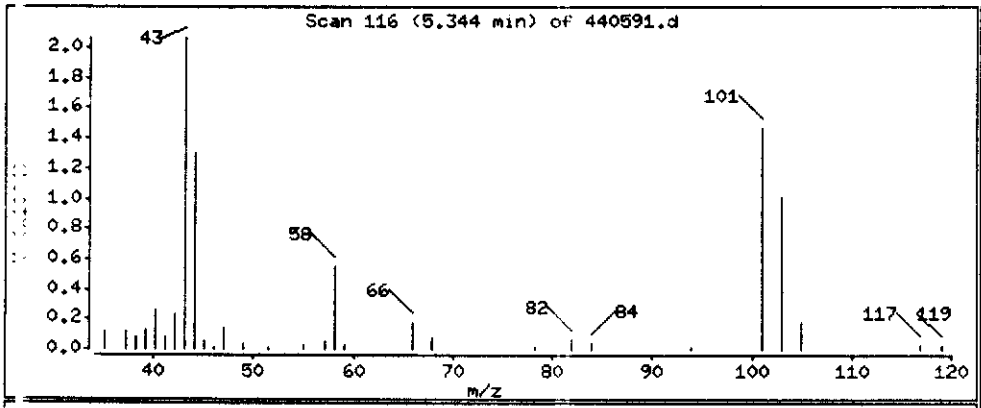
Operator: GMH

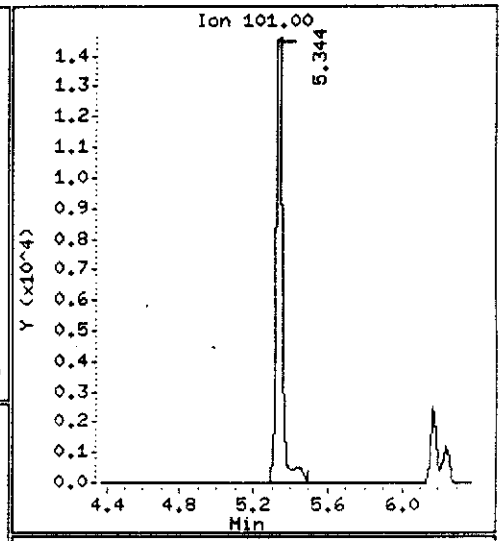
Column phase: DB-1

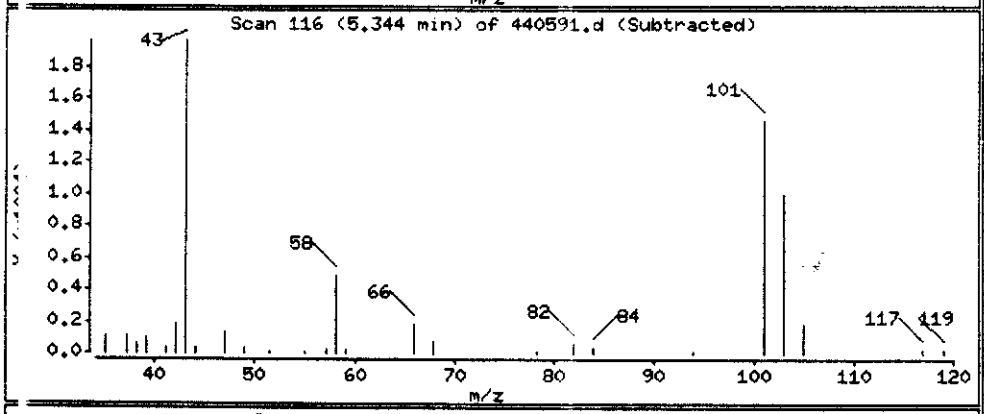
Column diameter: 0.35

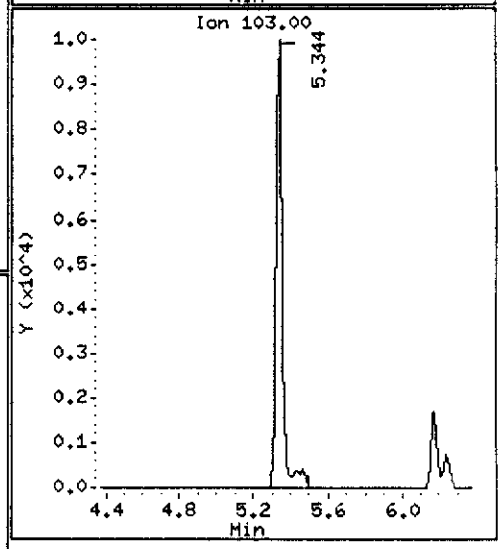
7 Trichlorofluoromethane

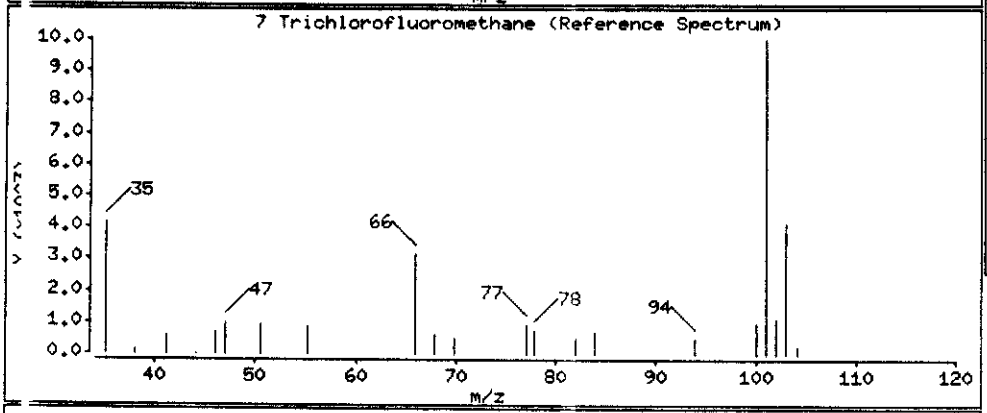
Concentration: 0.50 ppbv

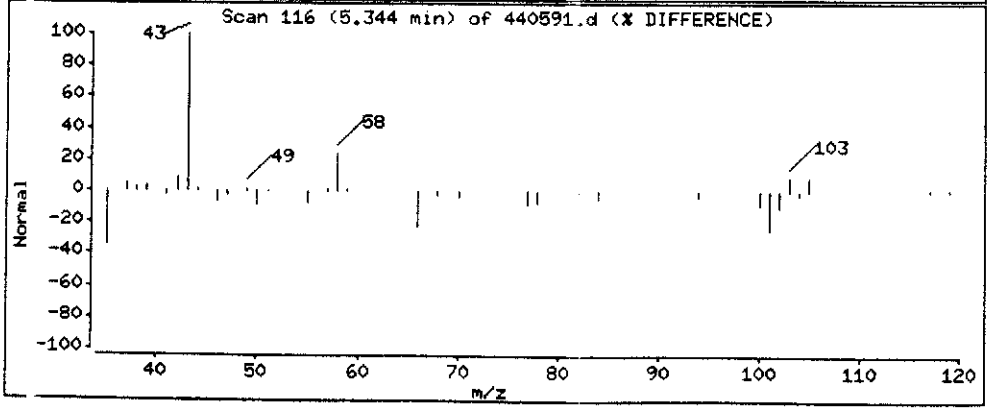












Data File: /chem/W.i/Wsvr.p/uceto14.b/440591.d

Date : 18-DEC-2000 17:41

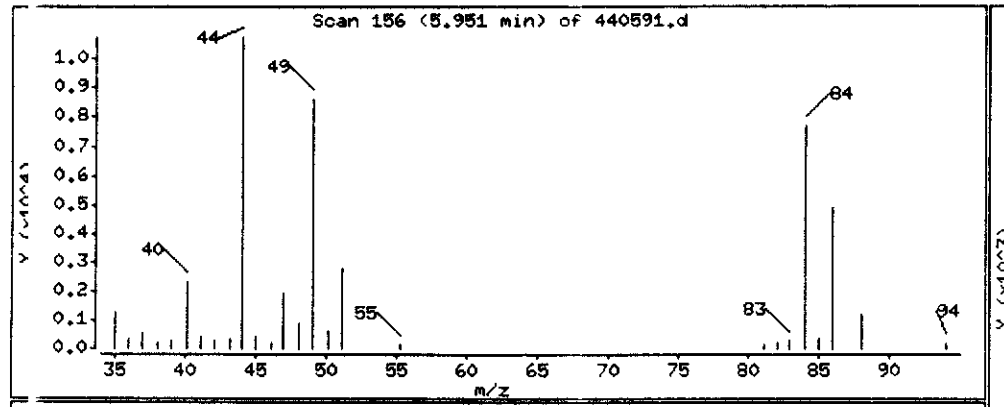
Client ID: CAEA12110007 Instrument: W.i

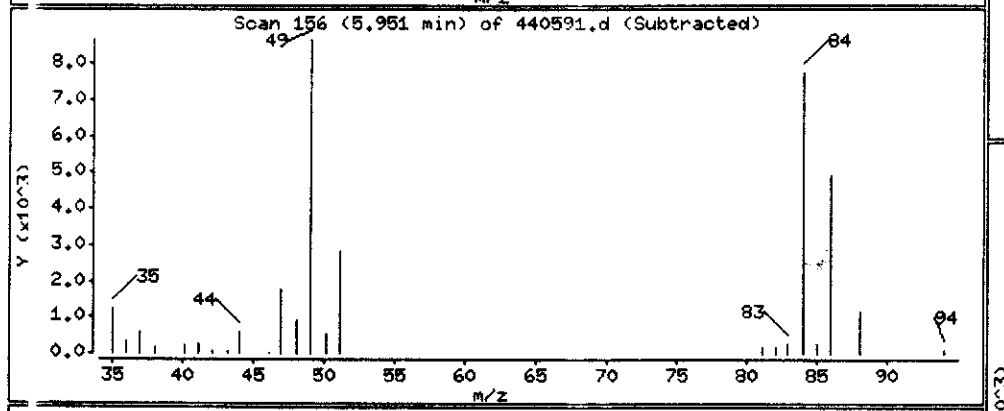
Sample Info: 440591;029ACAEA12110007;81024;1218L4

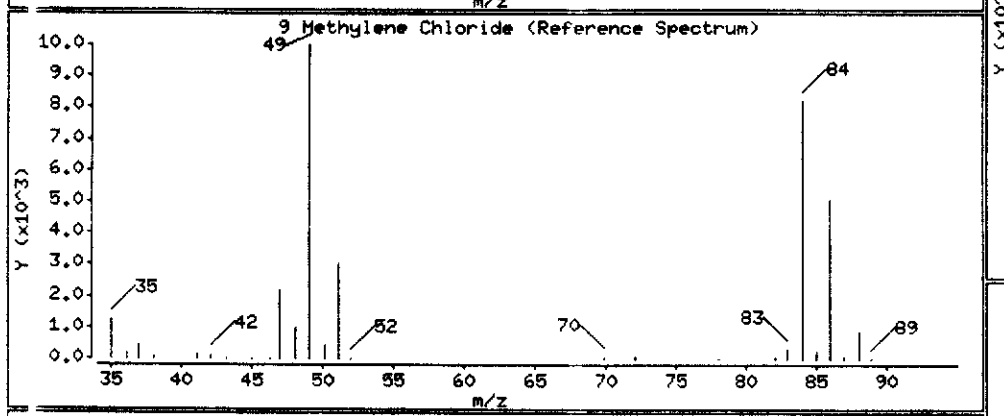
Purge Volume: 200.0 Operator: GMM

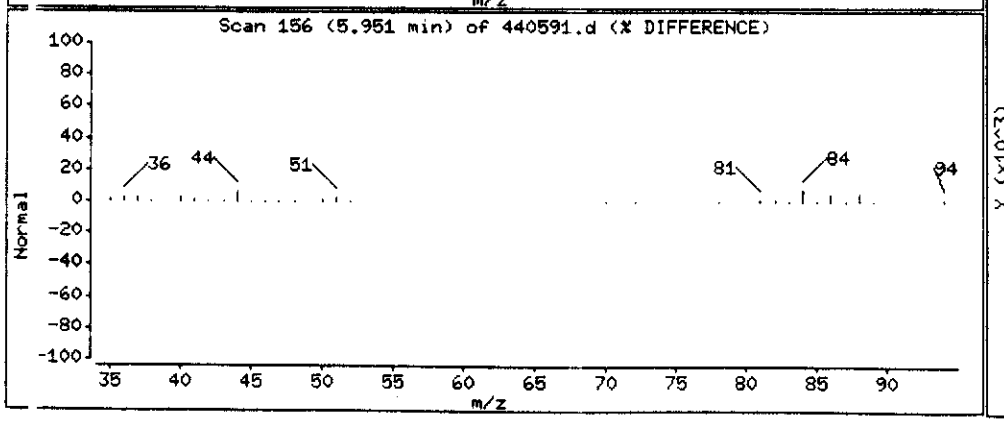
Column phase: DB-1 Column diameter: 0.35

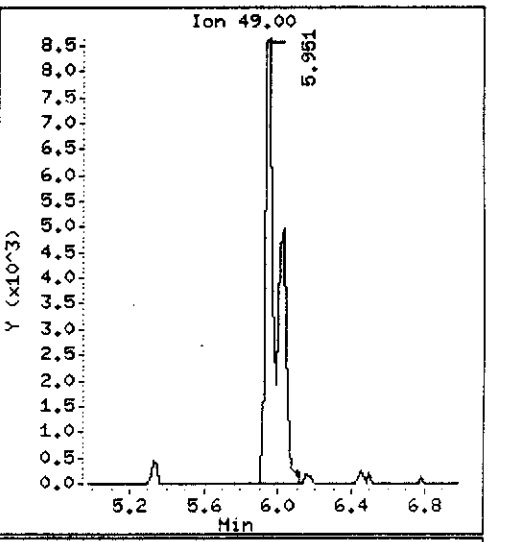
9 Methylene Chloride Concentration: 1.2 ppbv

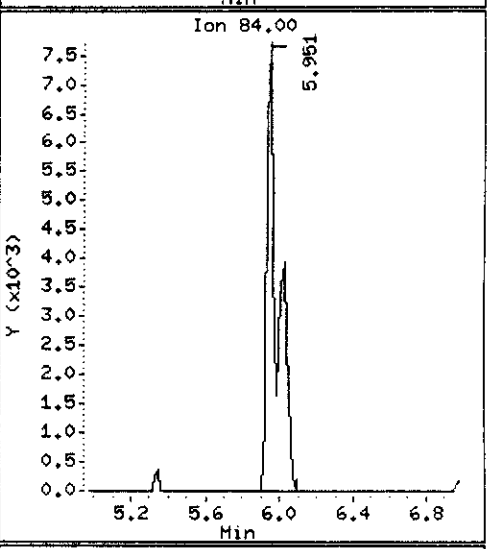


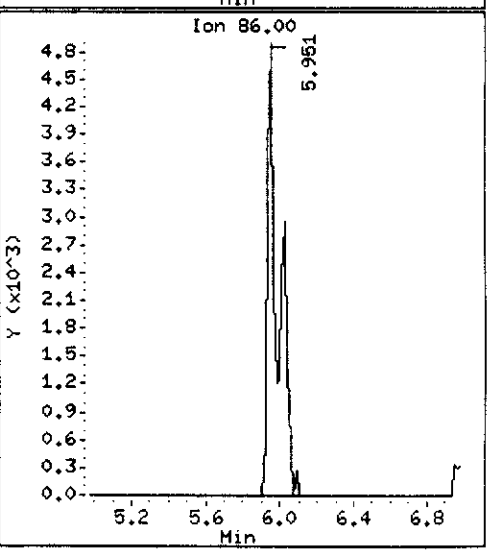












Data File: /chem/W.i/Wsvr.p/wceto14.b/440591.d

Date : 18-DEC-2000 17:41

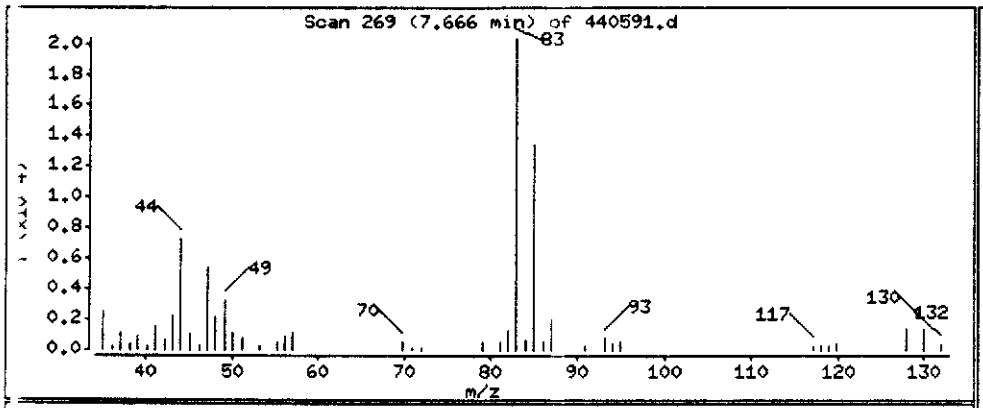
Client ID: CAEA12110007 Instrument: W.i

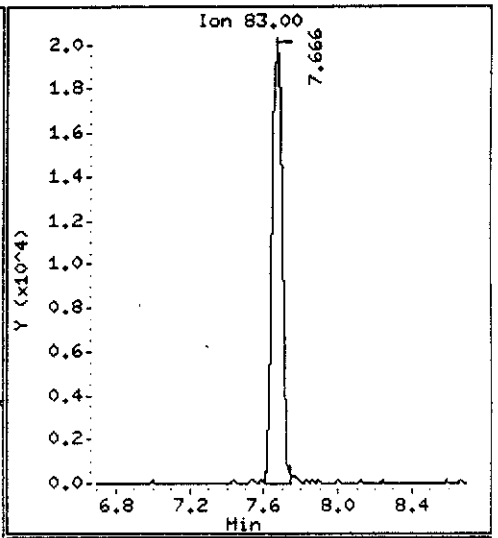
Sample Info: 440591;029ACAEA12110007;81024;1218L4

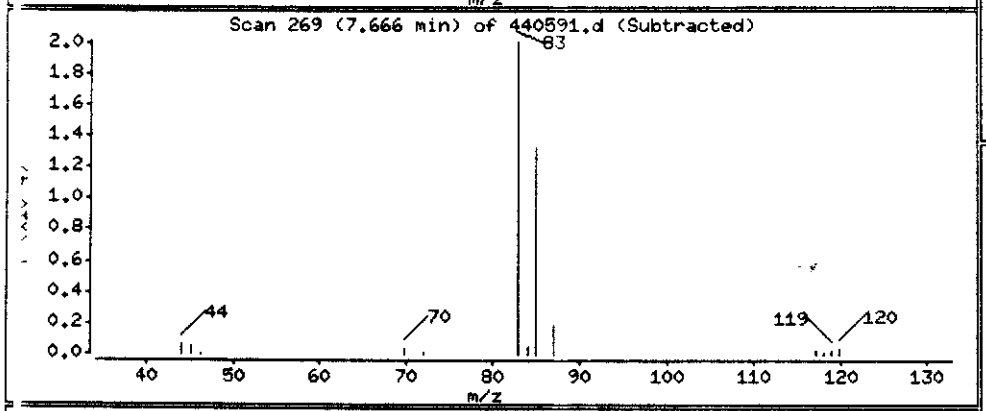
Purge Volume: 200.0 Operator: GMM

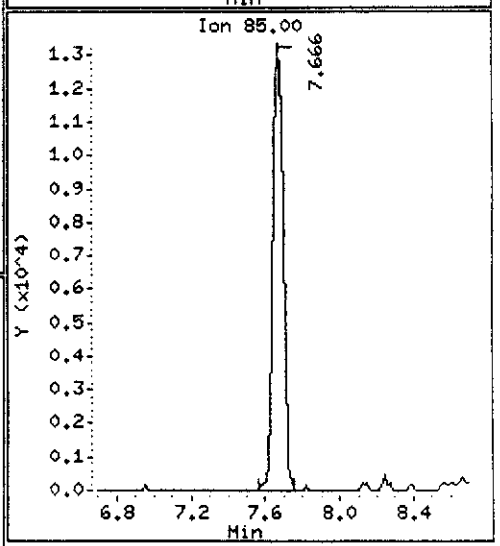
Column phase: DB-1 Column diameter: 0.35

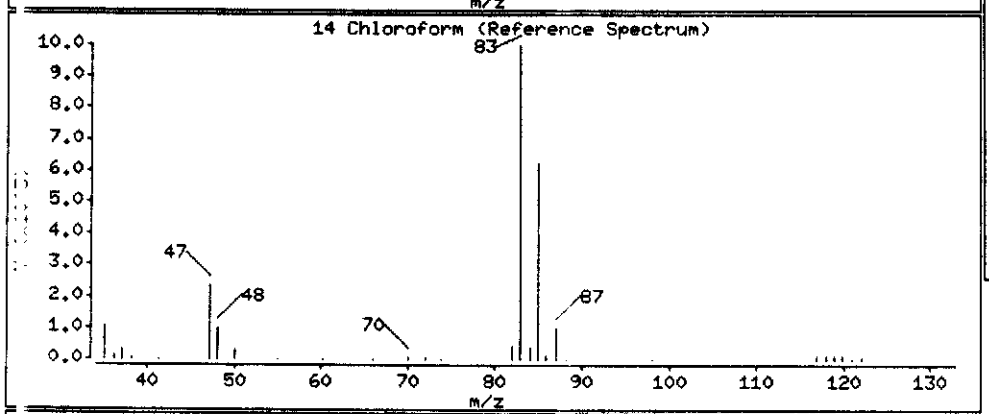
14 Chloroform Concentration: 1.3 ppbv

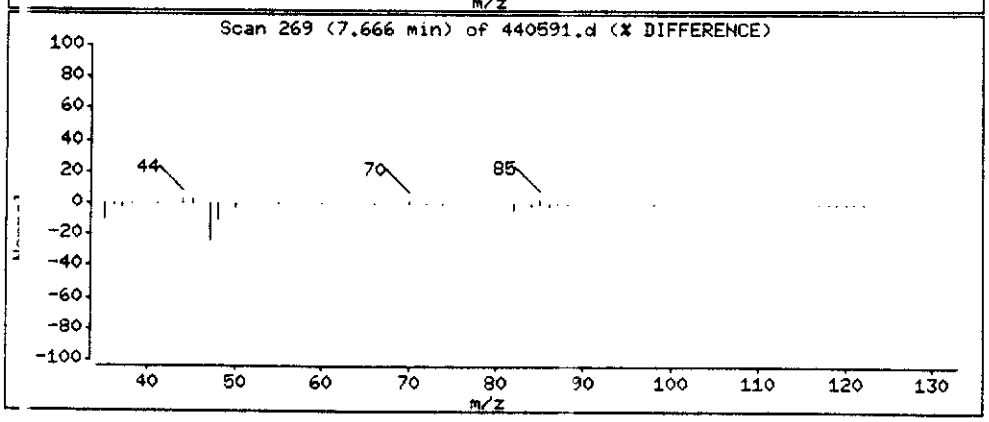












Data File: /chem/W.i/Wsvr.p/wceto14.b/440591.d

Date : 18-DEC-2000 17:41

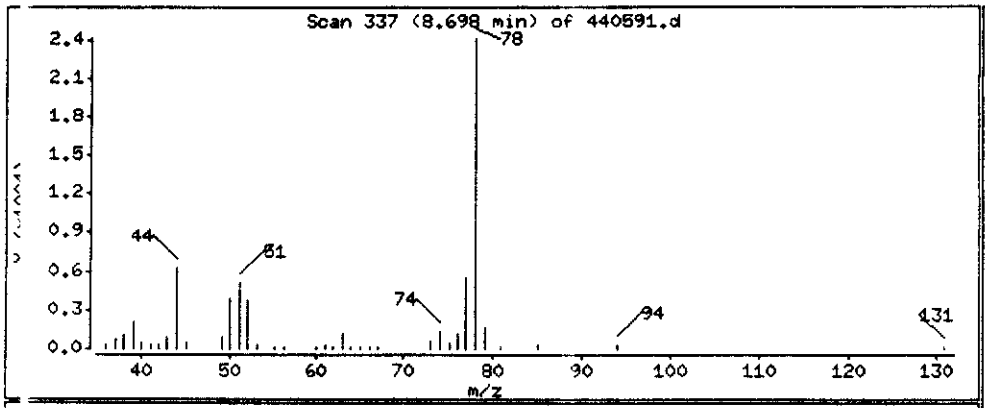
Client ID: CAEA12110007 Instrument: W.i

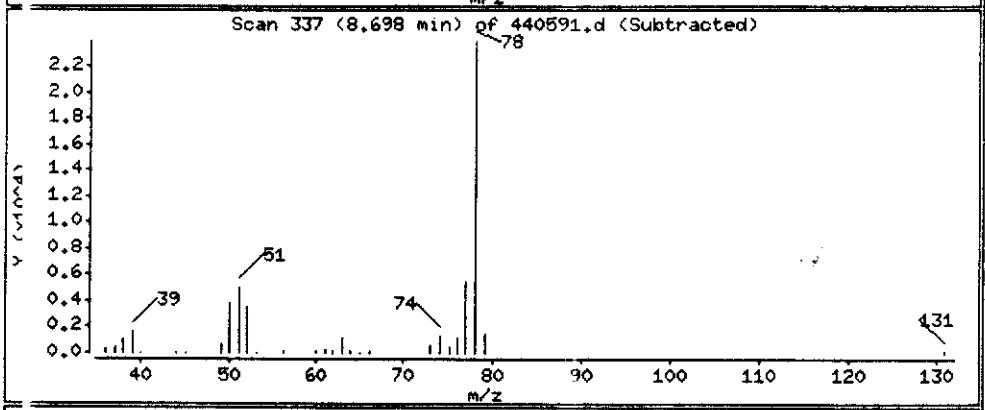
Sample Info: 440591;029ACAEA12110007;81024;1218L4

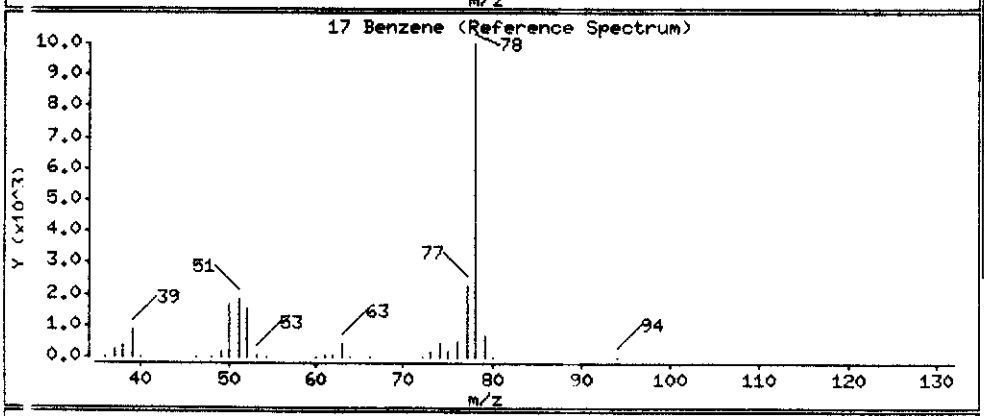
Purge Volume: 200.0 Operator: GMM

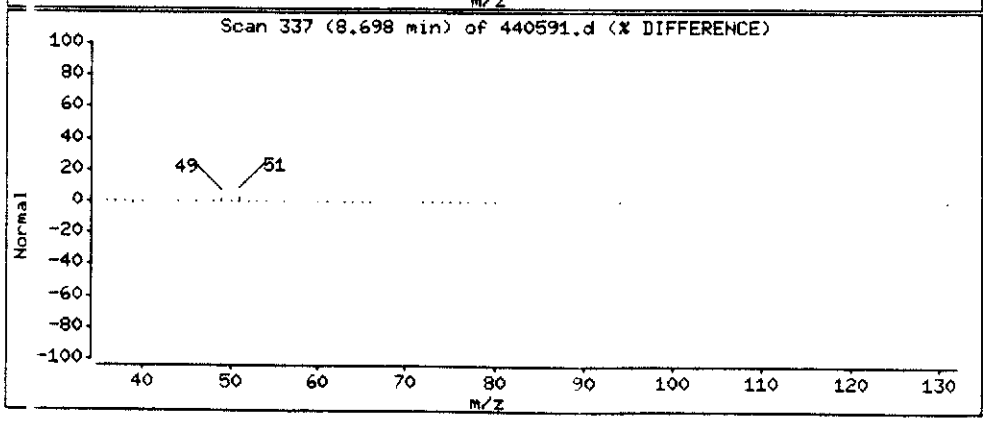
Column phase: DB-1 Column diameter: 0.35

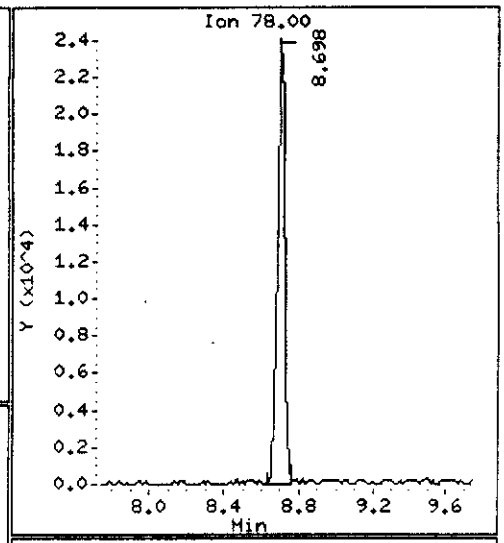
17 Benzene Concentration: 0.86 ppbv

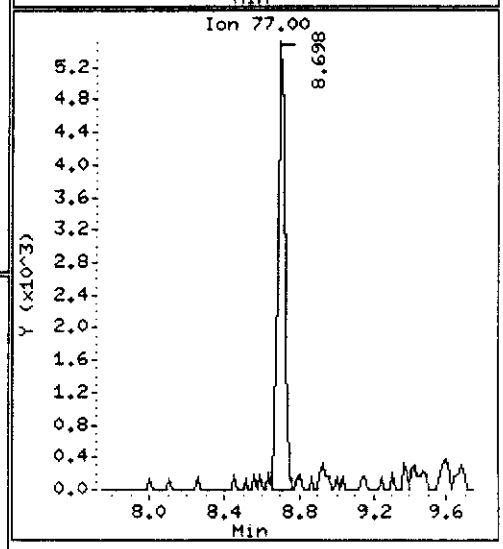












Data File: /chem/W.i/Wsvr.p/wceto14.b/440591.d

Date : 18-DEC-2000 17:41

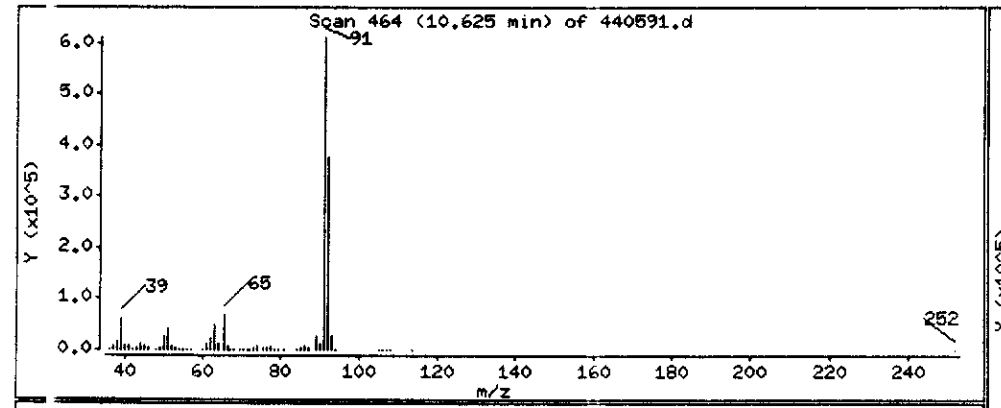
Client ID: CAEA12110007 Instrument: W.i

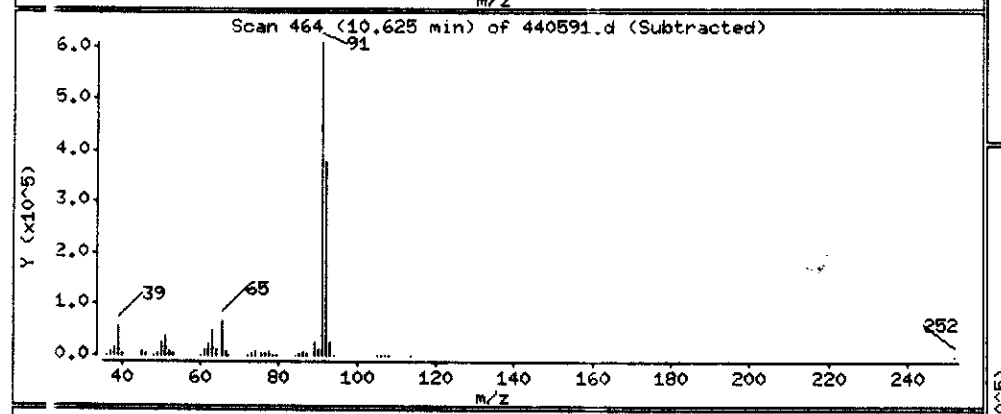
Sample Info: 440591;029ACAEA12110007;81024;1218L4

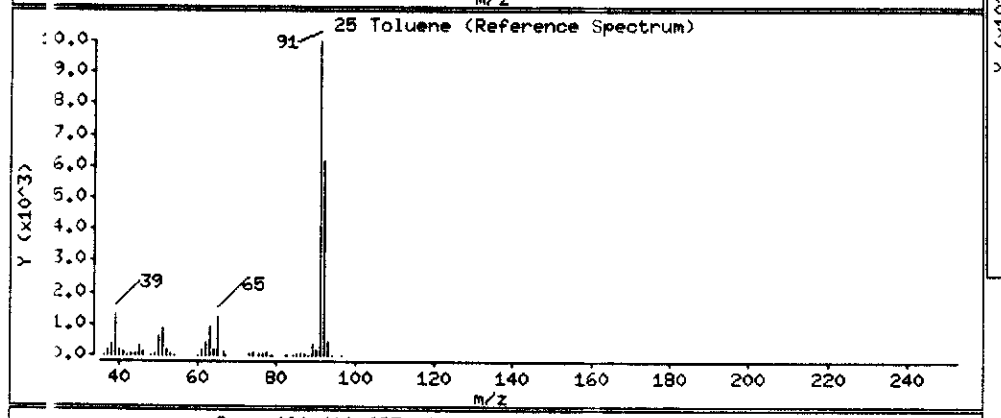
Purge Volume: 200.0 Operator: GMM

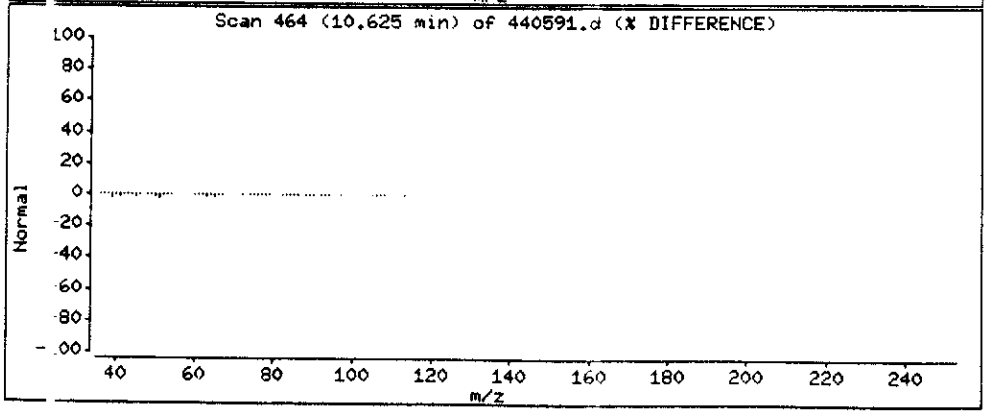
Column phase: DB-1 Column diameter: 0.35

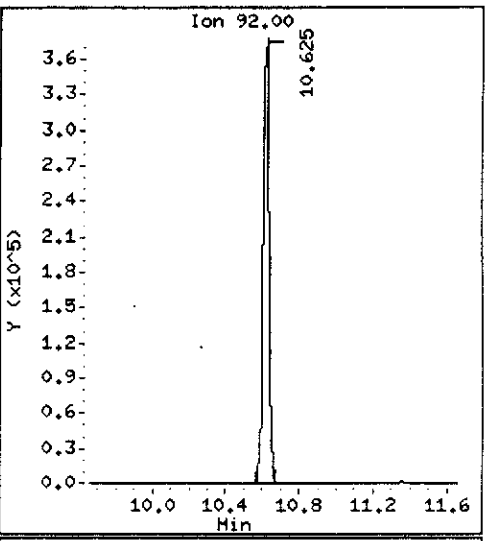
25 Toluene Concentration: 16 ppbv

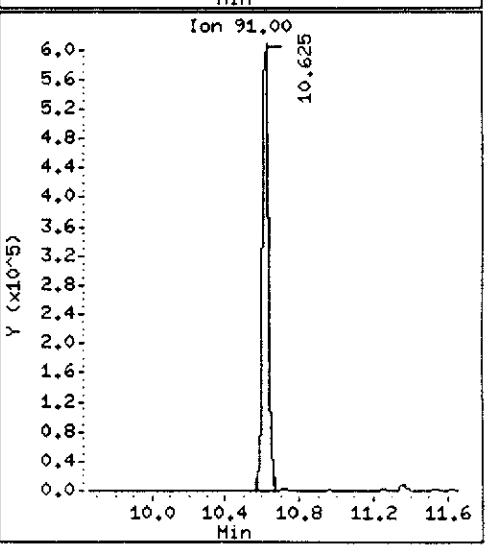












Data File: /chem/W.i/Wsvr.p/wceto14.b/440591.d

Date : 18-DEC-2000 17:41

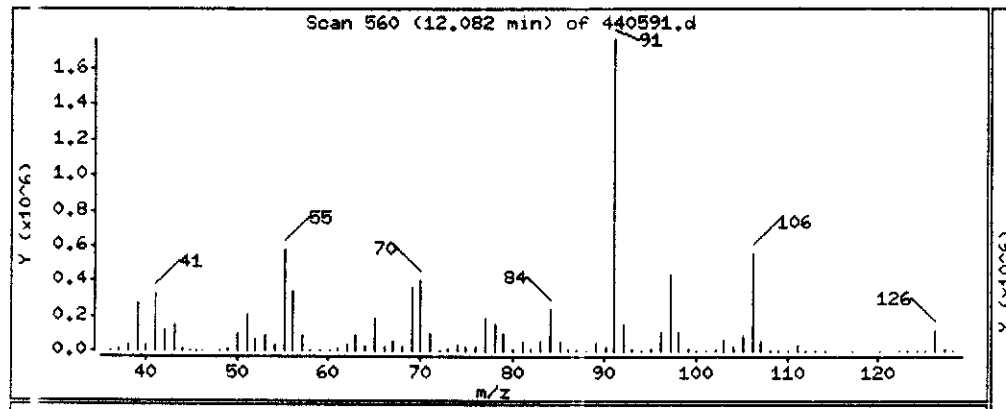
Client ID: CAEA12110007 Instrument: W.i

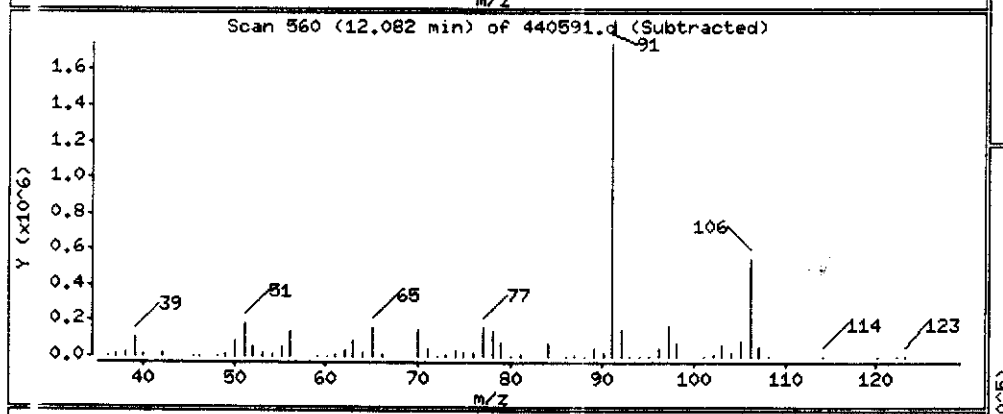
Sample Info: 440591;029ACAEA12110007;81024;1218L4

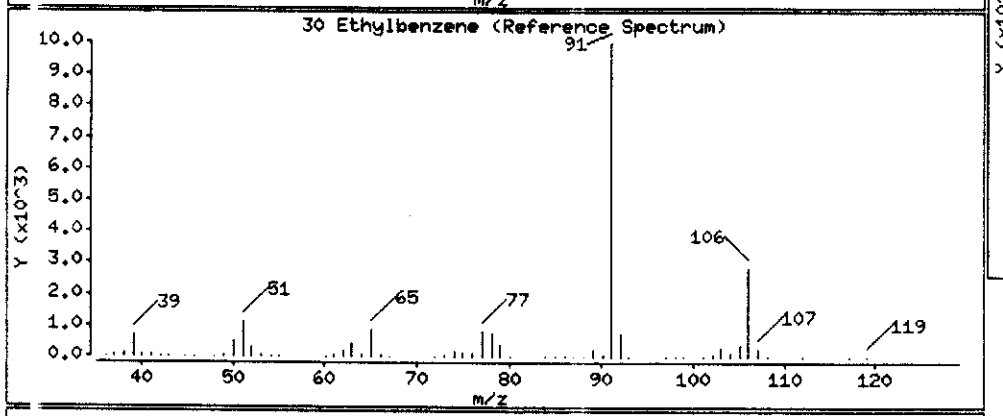
Purge Volume: 200.0 Operator: GMM

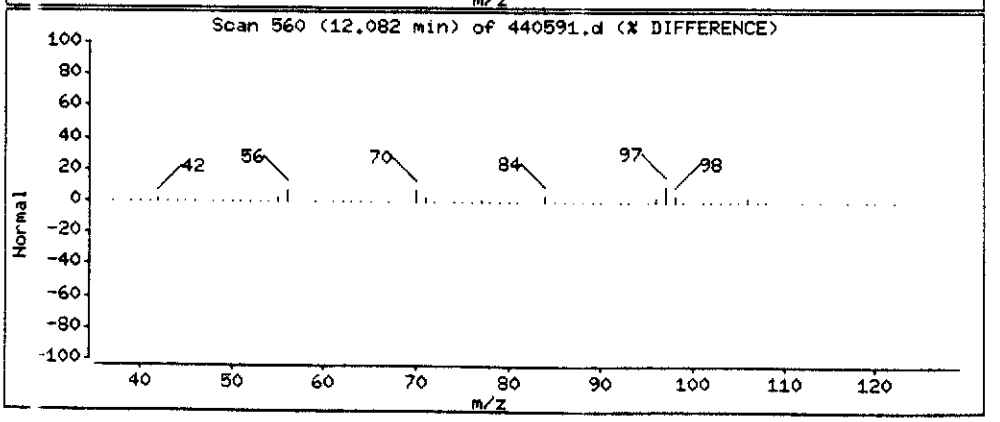
Column phase: DB-1 Column diameter: 0.35

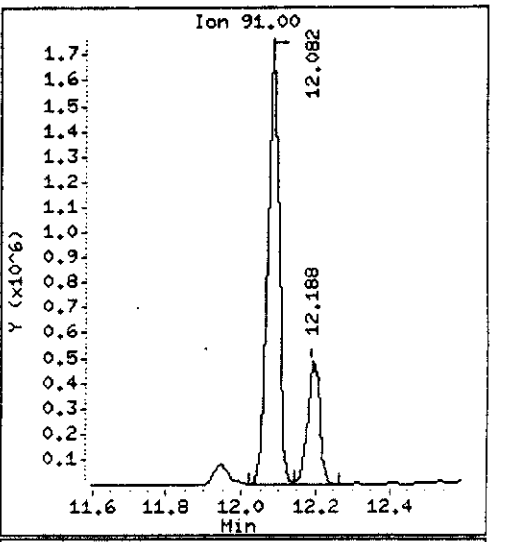
30 Ethylbenzene Concentration: 32 ppbv

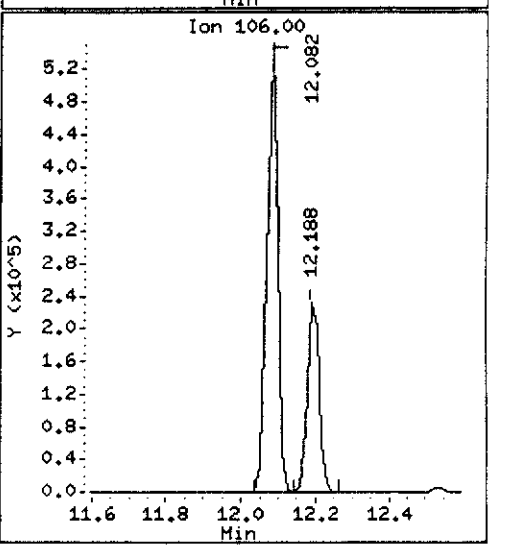












Data File: /chem/W.i/Wsvr.p/wceto14.b/440591.d

Date : 18-DEC-2000 17:41

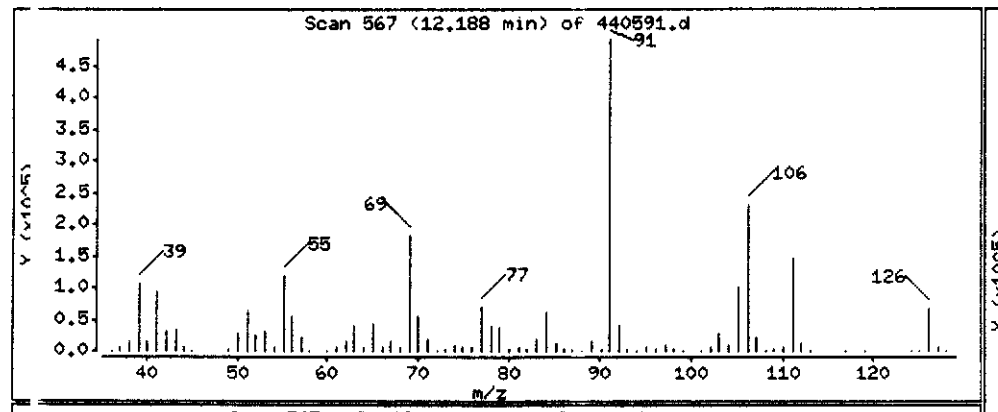
Client ID: CAEA12110007 Instrument: W.i

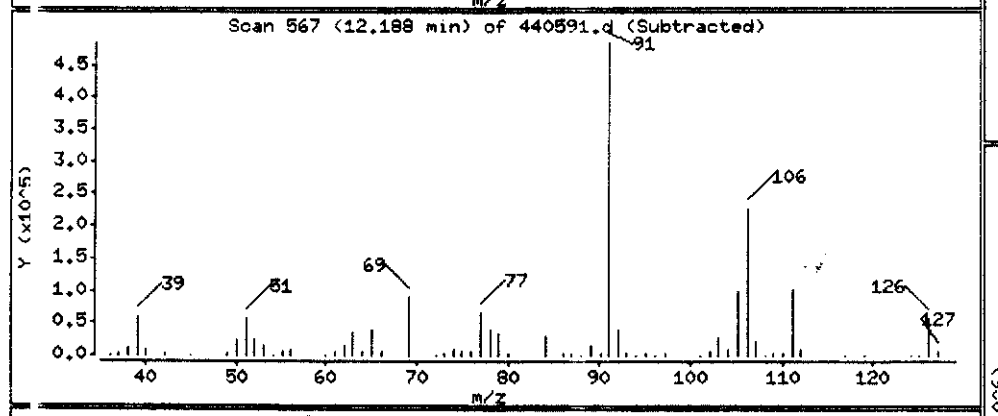
Sample Info: 440591;029ACAEA12110007;81024;1218L4

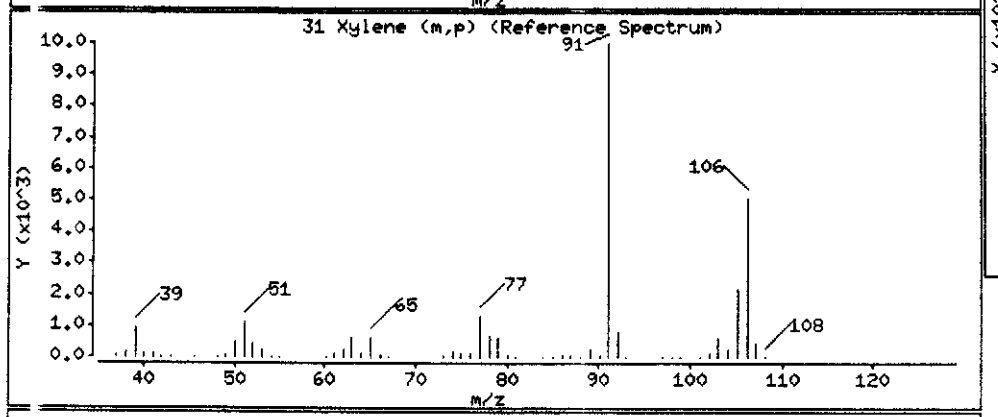
Purge Volume: 200.0 Operator: GMM

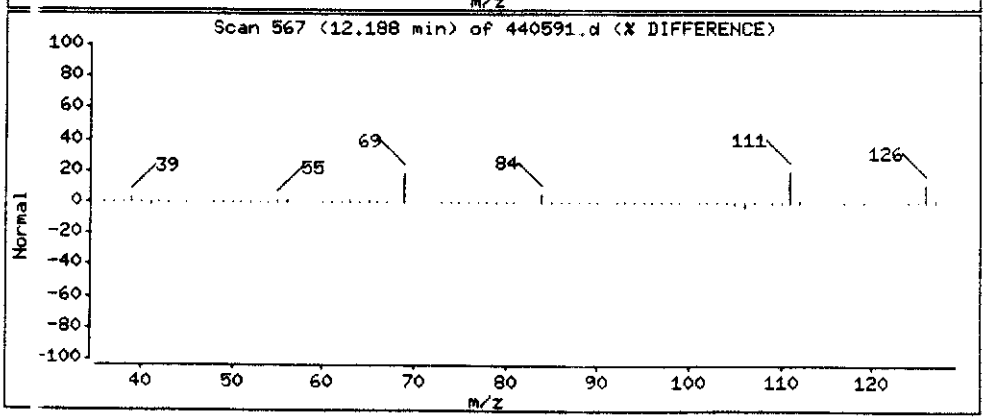
Column phase: DB-1 Column diameter: 0.35

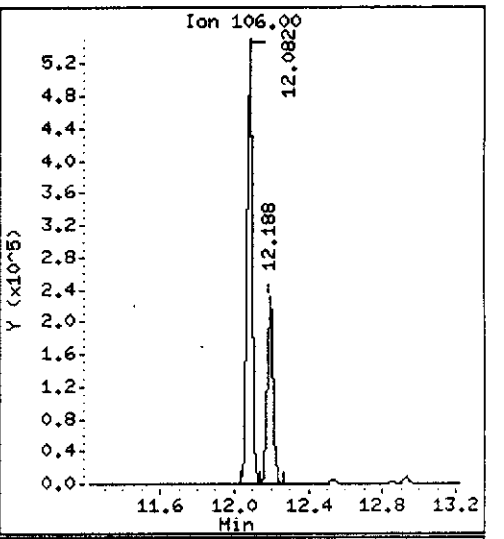
31 Xylene (m,p) Concentration: 13 ppbv

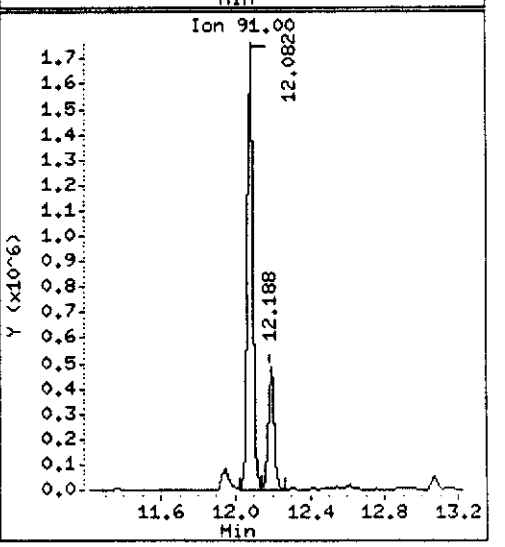












Data File: /chem/W.i/Wsvr.p/wceto14.b/440591.d

Date : 18-DEC-2000 17:41

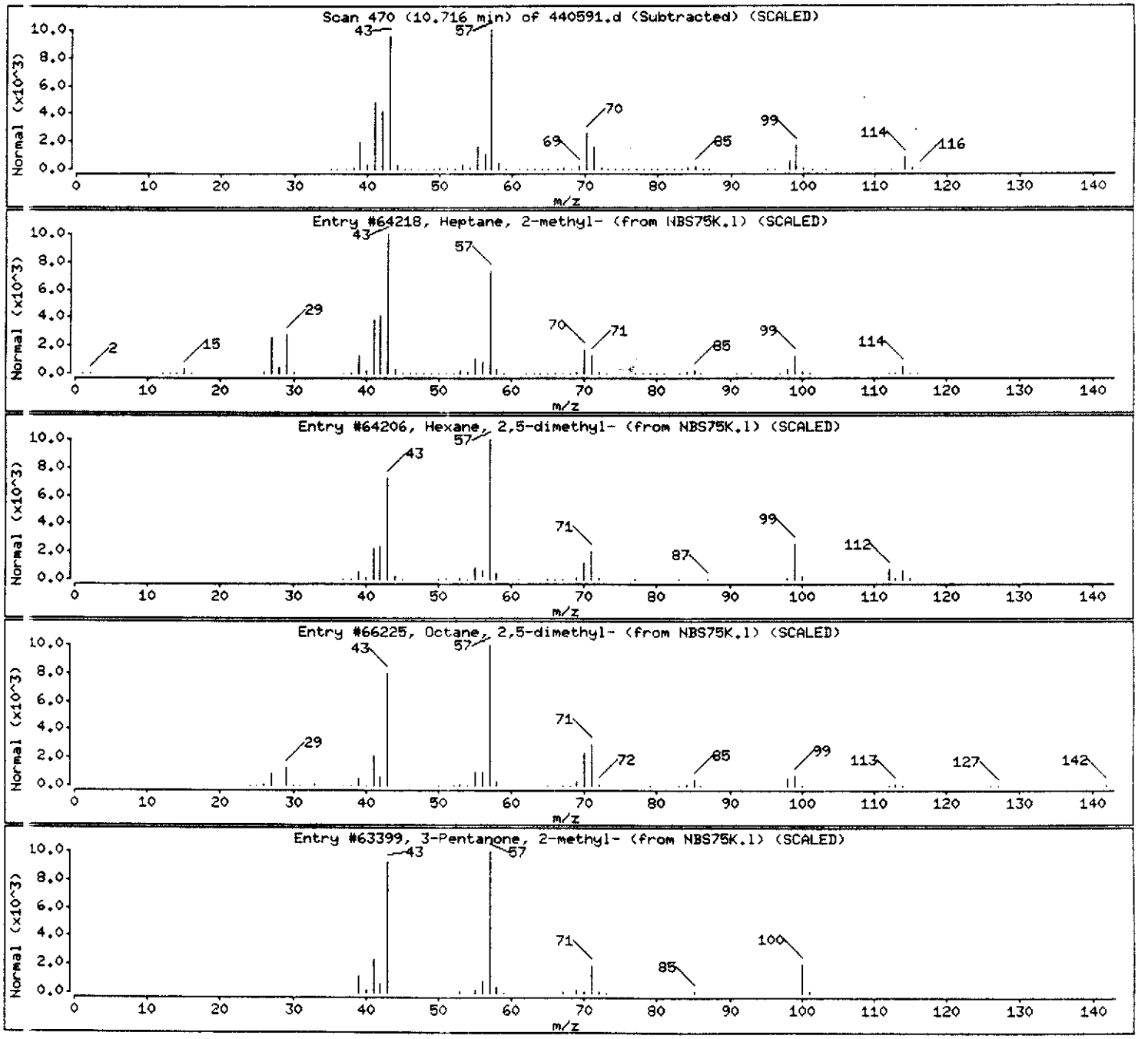
Client ID: CAEA12110007 Instrument: W.i

Sample Info: 440591;029ACAEA12110007;81024;1218L4

Purge Volume: 200.0 Operator: GMM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown aliphatic compound						
Heptane, 2-methyl-	592-27-8	NBS75K.l	64218	93	C8H18	114
Hexane, 2,5-dimethyl-	592-13-2	NBS75K.l	64206	83	C8H18	114
Octane, 2,5-dimethyl-	15869-89-3	NBS75K.l	66225	47	C10H22	142
3-Pentanone, 2-methyl-	565-69-5	NBS75K.l	63399	35	C6H12O	100



Data File: /chem/W.i/Wsvr.p/wceto14.b/440591.d

Date : 18-DEC-2000 17:41

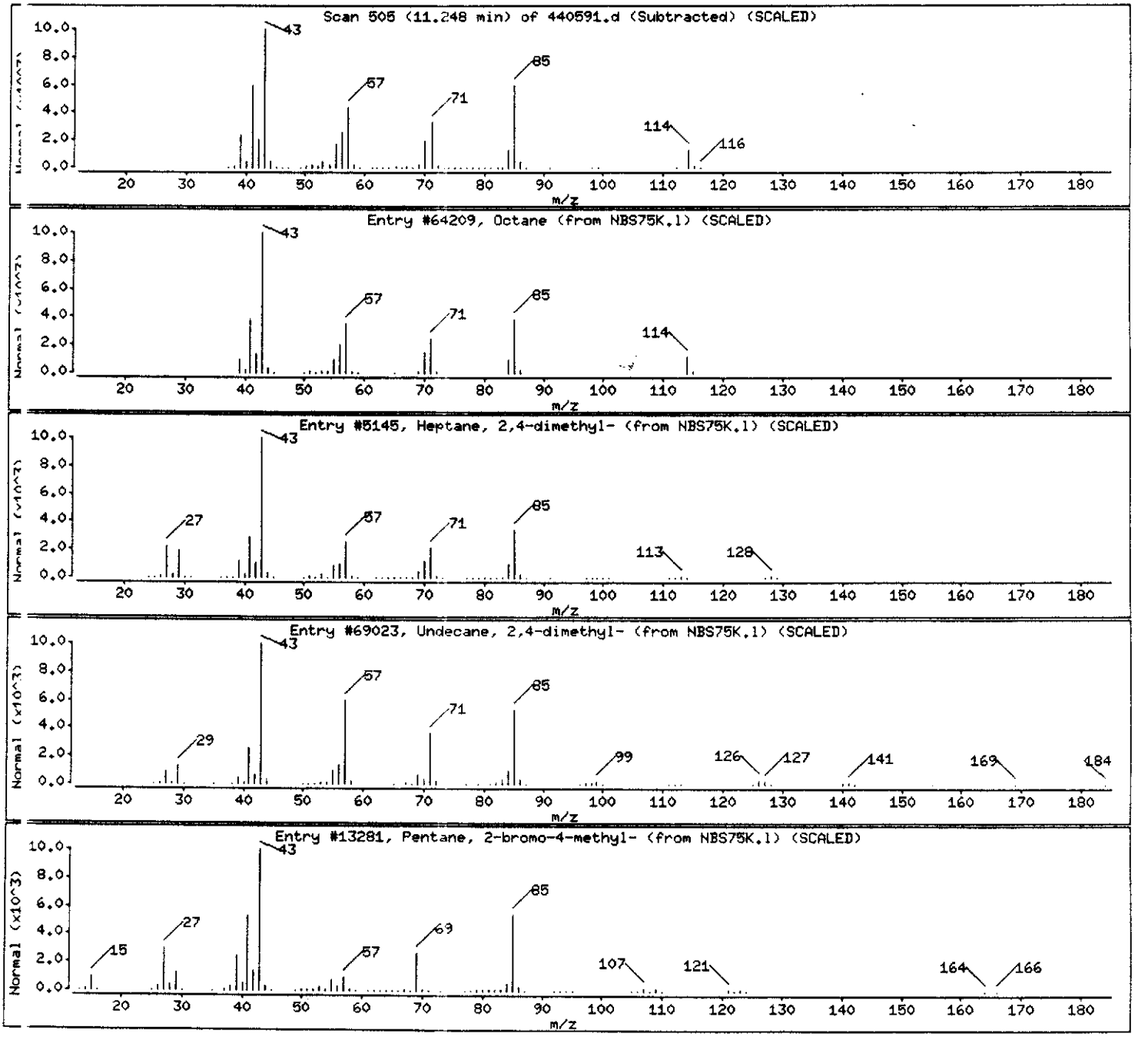
Client ID: CAEA12110007 Instrument: W.i

Sample Info: 440591;029ACAEA12110007;81024;1218L4

Purge Volume: 200.0 Operator: GMM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Octane	111-65-9	NBS75K.l	64209	91	C8H18	114
Heptane, 2,4-dimethyl-	2213-23-2	NBS75K.l	5145	59	C9H20	128
Undecane, 2,4-dimethyl-	17312-80-0	NBS75K.l	69023	50	C13H28	184
Pentane, 2-bromo-4-methyl-	30310-22-6	NBS75K.l	13281	47	C6H13Br	164



Data File: /chem/W.i/Wsvr.p/wceto14.b/440591.d

Date : 18-DEC-2000 17:41

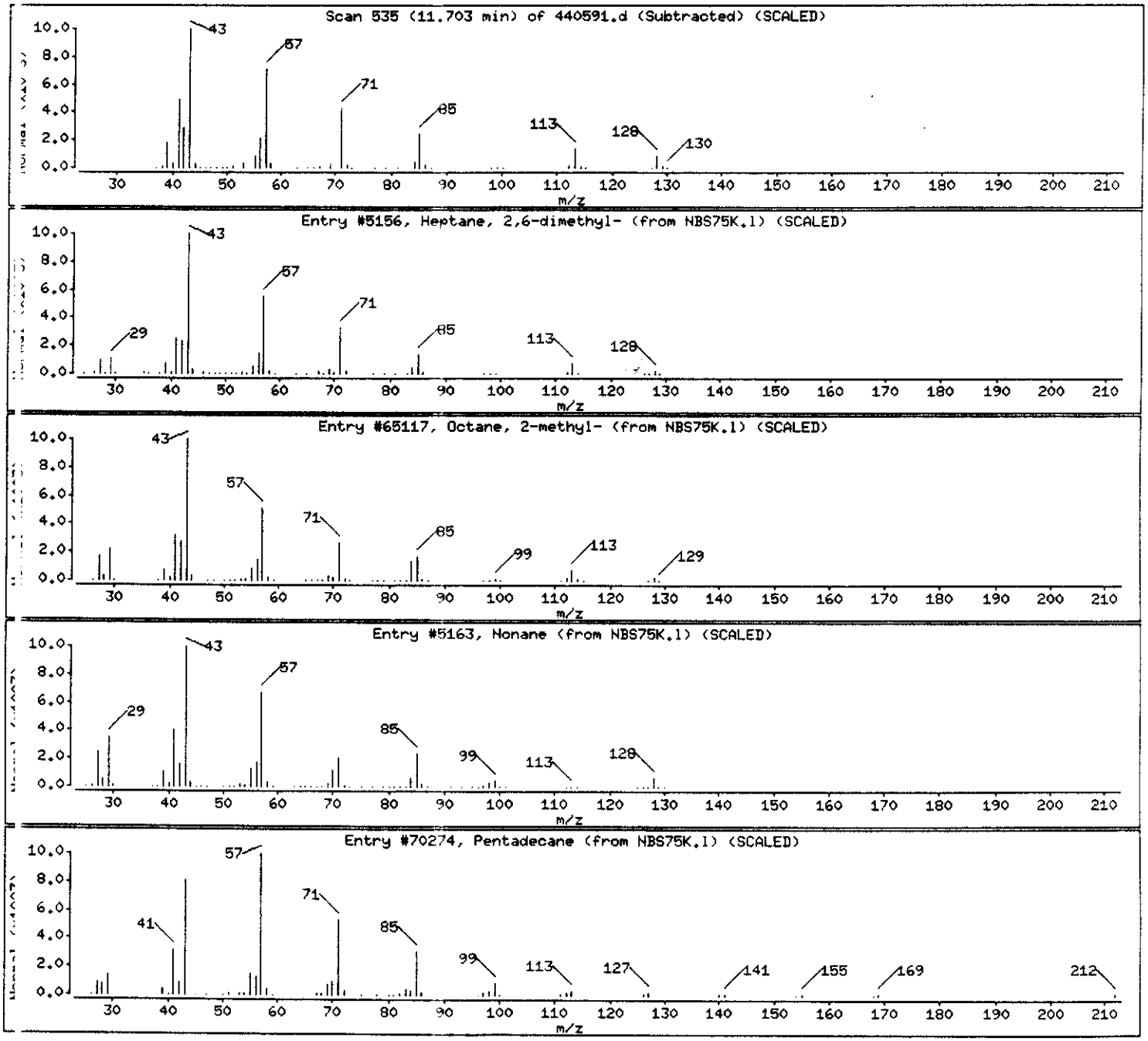
Client ID: CAEA12110007 Instrument: W.i

Sample Info: 440591;029ACAEA12110007;81024;1218L4

Purge Volume: 200.0 Operator: GMM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown aliphatic compound						
Heptane, 2,6-dimethyl-	1072-05-5	NBS75K.1	5156	78	C9H20	128
Octane, 2-methyl-	3221-61-2	NBS75K.1	65117	64	C9H20	128
Nonane	111-84-2	NBS75K.1	5163	52	C9H20	128
Pentadecane	629-62-9	NBS75K.1	70274	50	C15H32	212



Data File: /chem/W.i/Wsvr.p/wceto14.b/440591.d

Date : 18-DEC-2000 17:41

Client ID: CAEA12110007

Instrument: W.i

Sample Info: 440591;029ACAEA12110007;81024;1218L4

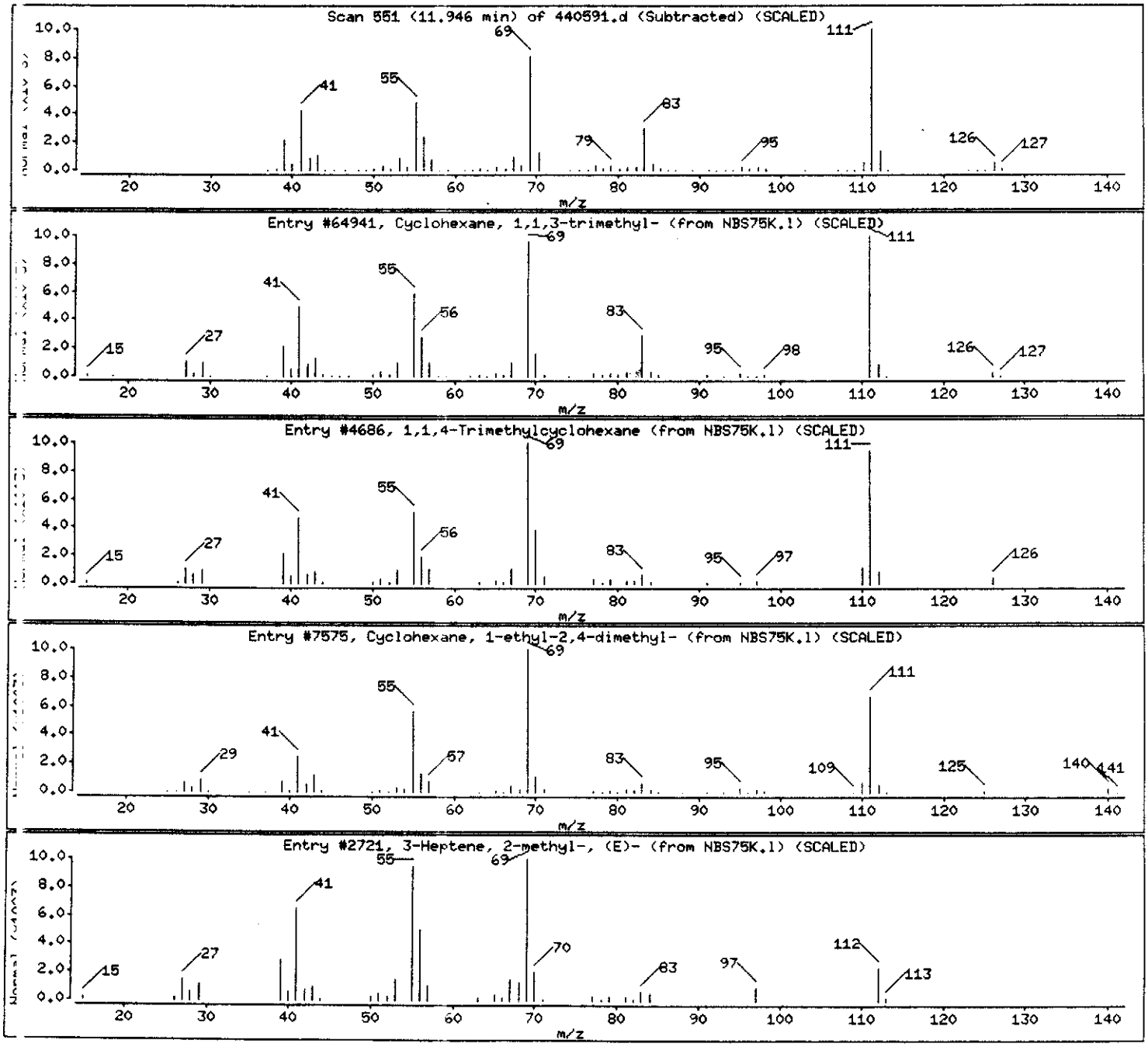
Purge Volume: 200.0

Operator: GHM

Column phase: DB-1

Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown aliphatic compound						
Cyclohexane, 1,1,3-trimethyl-	3073-66-3	NBS75K.l	64941	90	C9H18	126
1,1,4-Trimethylcyclohexane	7094-27-1	NBS75K.l	4686	68	C9H18	126
Cyclohexane, 1-ethyl-2,4-dimethyl-	61142-69-6	NBS75K.l	7575	50	C10H20	140
3-Heptene, 2-methyl-, (E)-	692-96-6	NBS75K.l	2721	46	C8H16	112



Data File: /chem/W.i/Wsvr.p/wceto14.b/440591.d

Date : 18-DEC-2000 17:41

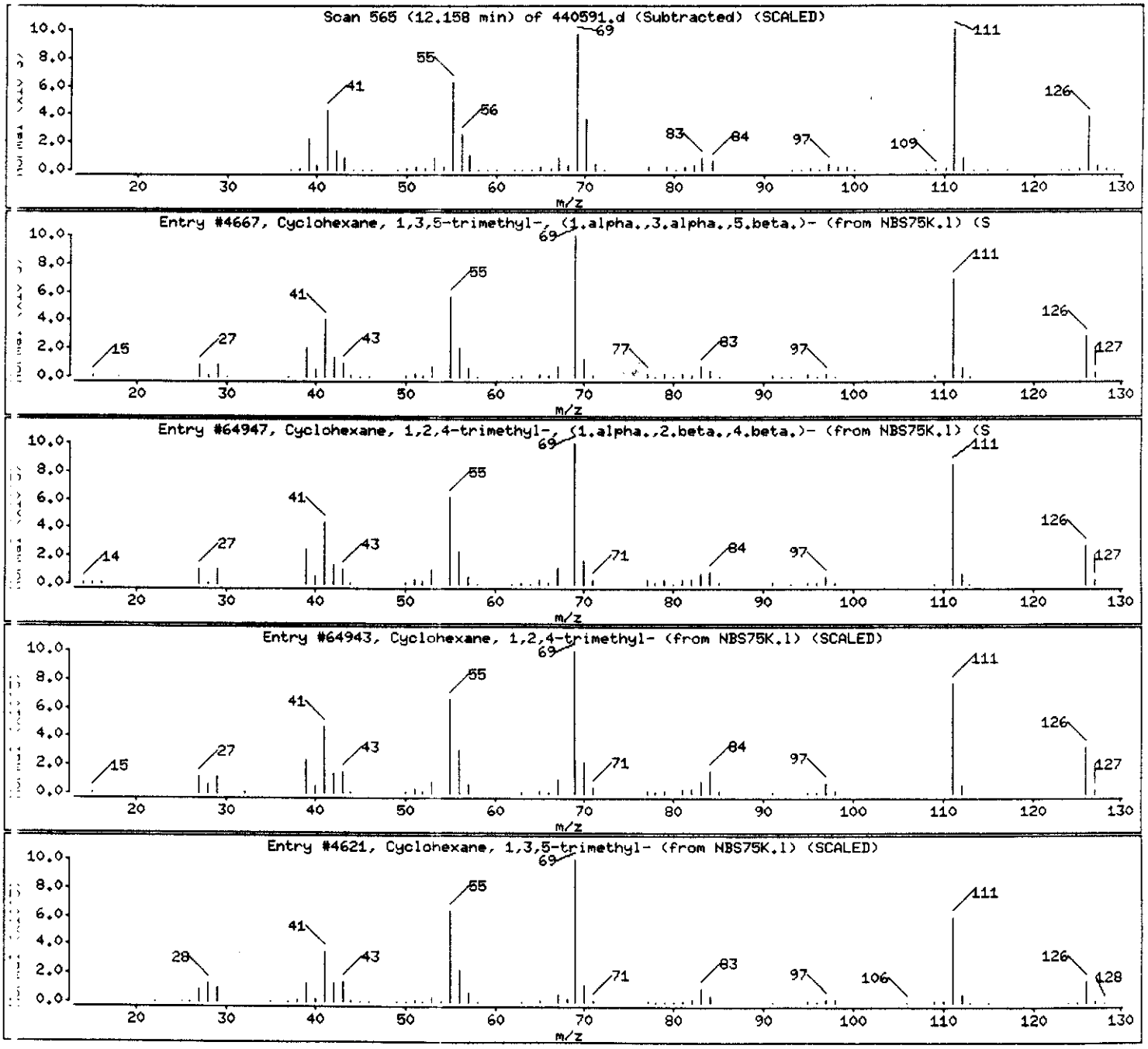
Client ID: CAEA12110007 Instrument: W.i

Sample Info: 440591;029ACAEA12110007;81024;1218L4

Purge Volume: 200.0 Operator: GMM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown alkylcyclohexane						
Cyclohexane, 1,3,5-trimethyl-, (1.alpha.	1795-26-2	NBS75K.l	4667	95	C9H18	126
Cyclohexane, 1,2,4-trimethyl-, (1.alpha.	7667-60-9	NBS75K.l	64947	95	C9H18	126
Cyclohexane, 1,2,4-trimethyl-	2234-75-5	NBS75K.l	64943	91	C9H18	126
Cyclohexane, 1,3,5-trimethyl-	1839-63-0	NBS75K.l	4621	90	C9H18	126



Data File: /chem/W.i/Wsvr.p/wceto14.b/440591.d

Date : 18-DEC-2000 17:41

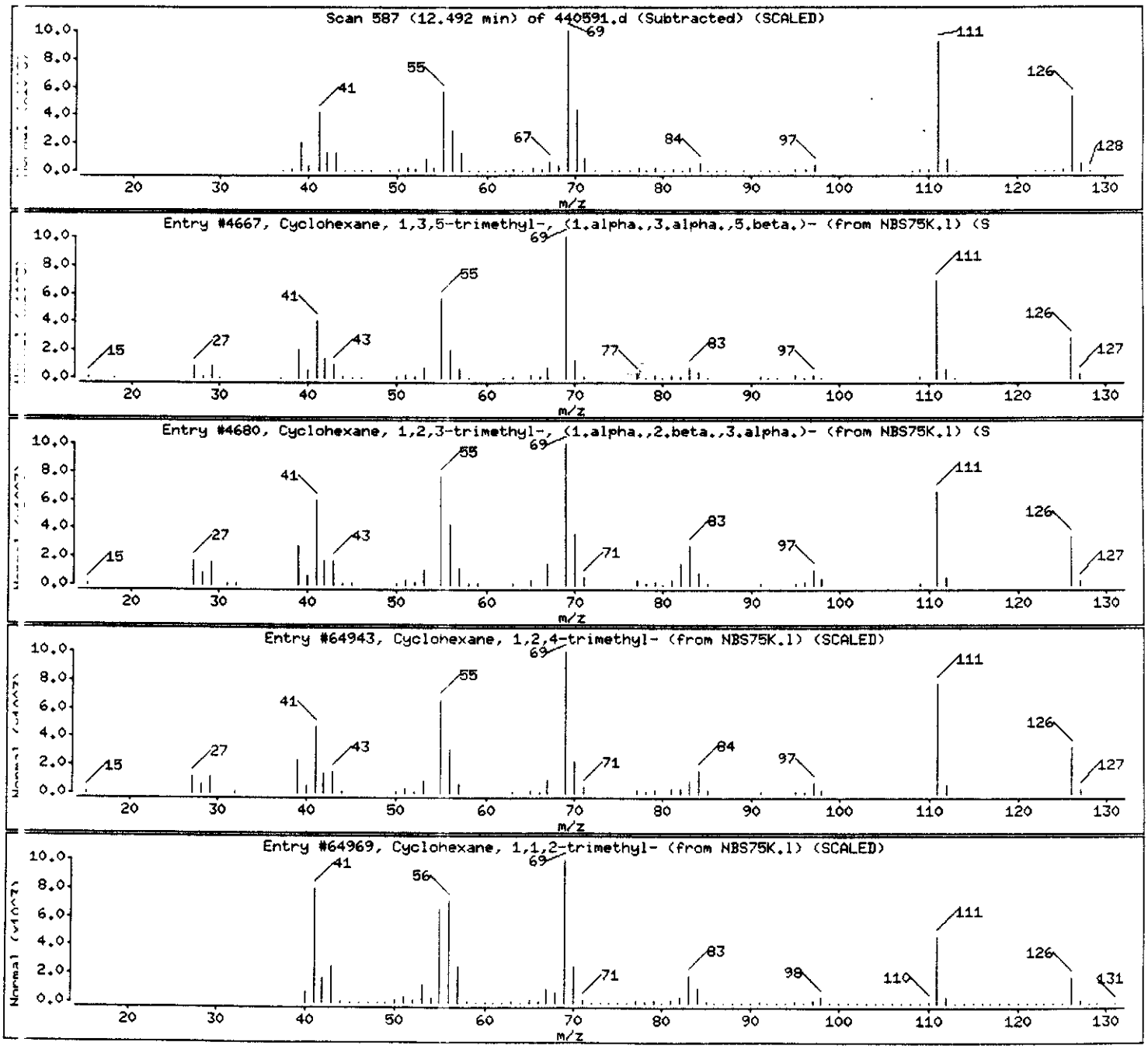
Client ID: CAEA12110007 Instrument: W.i

Sample Info: 440591;029ACAEA12110007;81024;1218L4

Purge Volume: 200.0 Operator: GHH

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown alkylcyclohexane						
Cyclohexane, 1,3,5-trimethyl-, (1.alpha.	1795-26-2	NBS75K.1	4667	90	C9H18	126
Cyclohexane, 1,2,3-trimethyl-, (1.alpha.	1678-81-5	NBS75K.1	4680	86	C9H18	126
Cyclohexane, 1,2,4-trimethyl-	2234-75-5	NBS75K.1	64943	80	C9H18	126
Cyclohexane, 1,1,2-trimethyl-	7094-26-0	NBS75K.1	64969	72	C9H18	126



Data File: /chem/W.i/Wsvr.p/wceto14.b/440591.d

Date : 18-DEC-2000 17:41

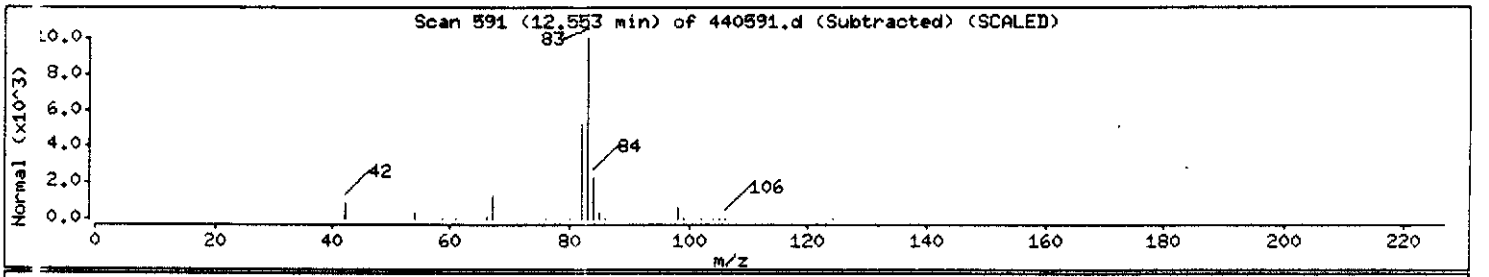
Client ID: CAEA12110007 Instrument: W.i

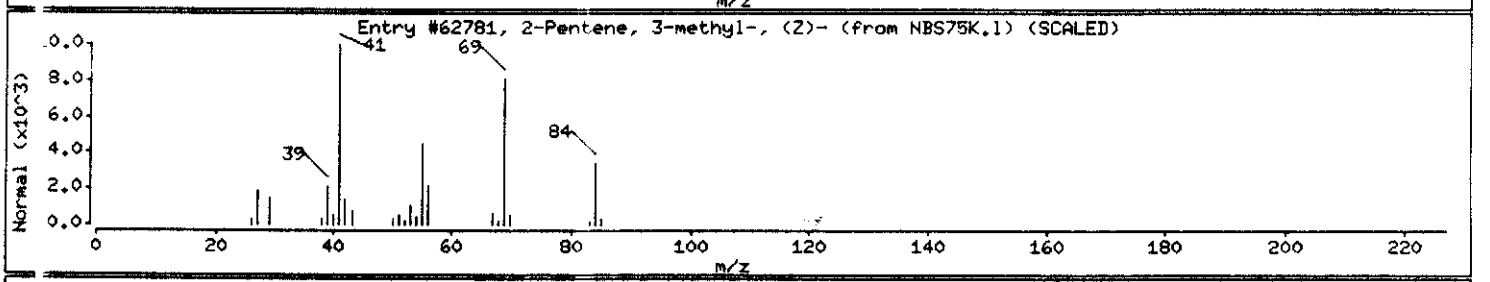
Sample Info: 440591;029ACAEA12110007;81024;1218L4

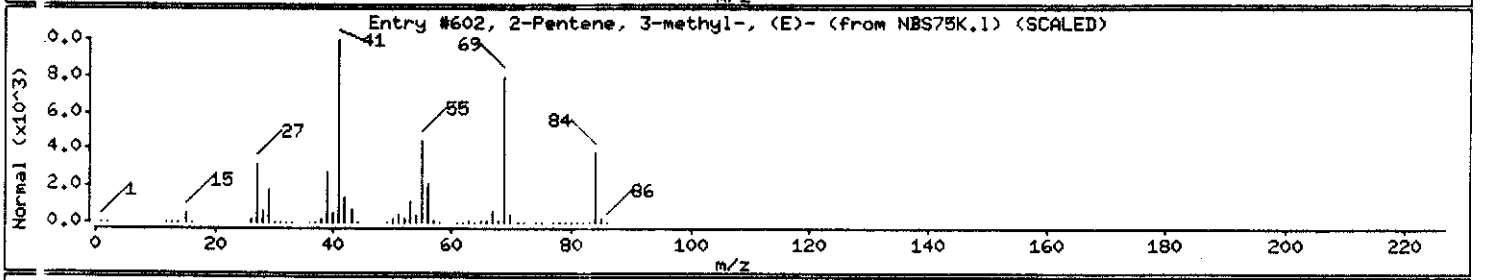
Purge Volume: 200.0 Operator: GMM

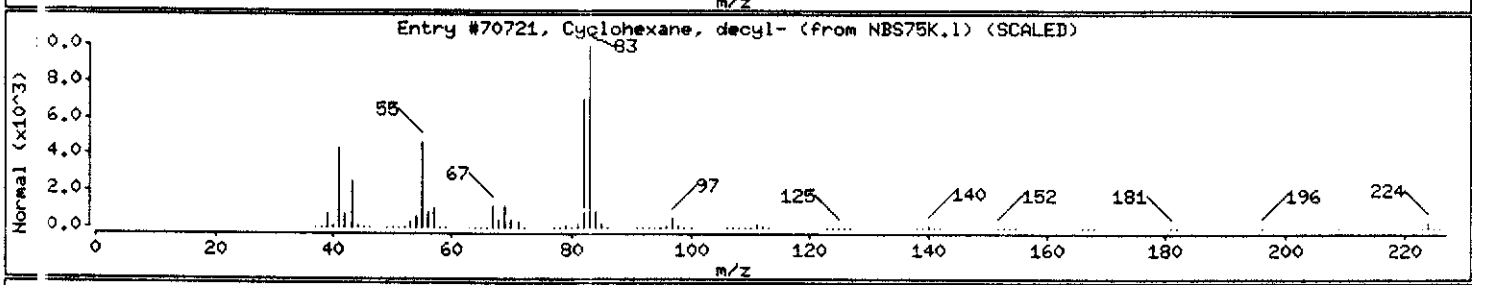
Column phase: DB-1 Column diameter: 0.35

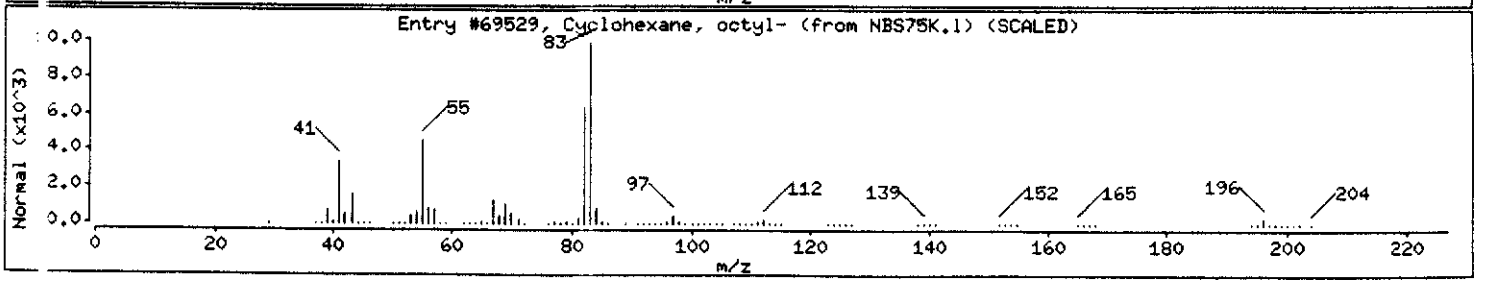
Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
2-Pentene, 3-methyl-, (Z)-	922-62-3	NBS75K.l	62781	9	C6H12	84
2-Pentene, 3-methyl-, (E)-	616-12-6	NBS75K.l	602	9	C6H12	84
Cyclohexane, decyl-	1795-16-0	NBS75K.l	70721	9	C16H32	224
Cyclohexane, octyl-	1795-15-9	NBS75K.l	69529	9	C14H28	196











Data File: /chem/W.i/Wsvr.p/wceto14.b/440591.d

Date : 18-DEC-2000 17:41

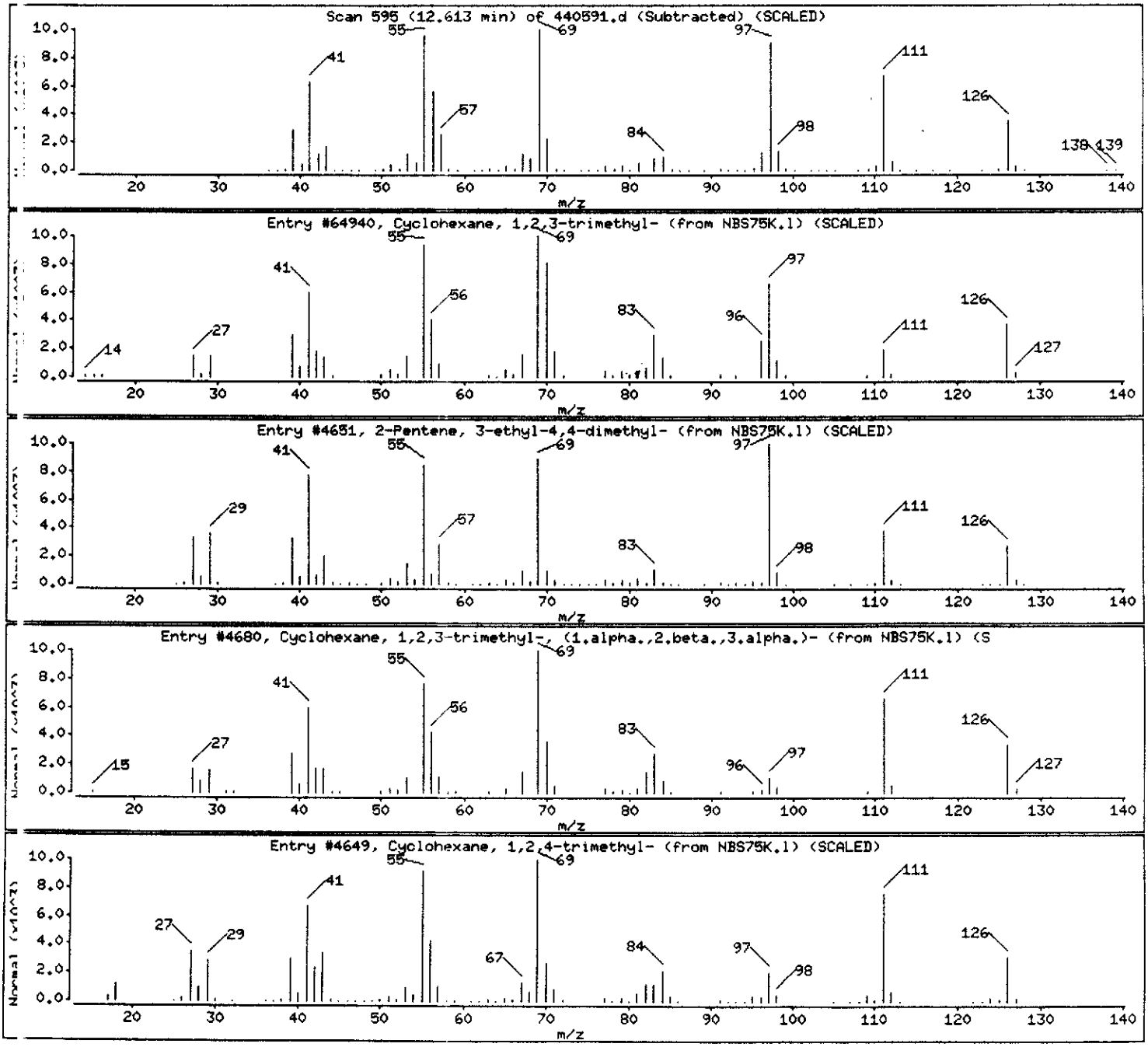
Client ID: CAEA12110007 Instrument: W.i

Sample Info: 440591;029ACAEA12110007;81024;1218L4

Purge Volume: 200.0 Operator: GMM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown aliphatic compound						
Cyclohexane, 1,2,3-trimethyl-	1678-97-3	NBS75K.l	64940	64	C9H18	126
2-Pentene, 3-ethyl-4,4-dimethyl-	53907-59-8	NBS75K.l	4651	58	C9H18	126
Cyclohexane, 1,2,3-trimethyl-, (1.alpha.	1678-81-5	NBS75K.l	4680	58	C9H18	126
Cyclohexane, 1,2,4-trimethyl-	2234-75-5	NBS75K.l	4649	52	C9H18	126



Data File: /chem/W.i/Wsvr.p/wceto14.b/440591.d

Date : 18-DEC-2000 17:41

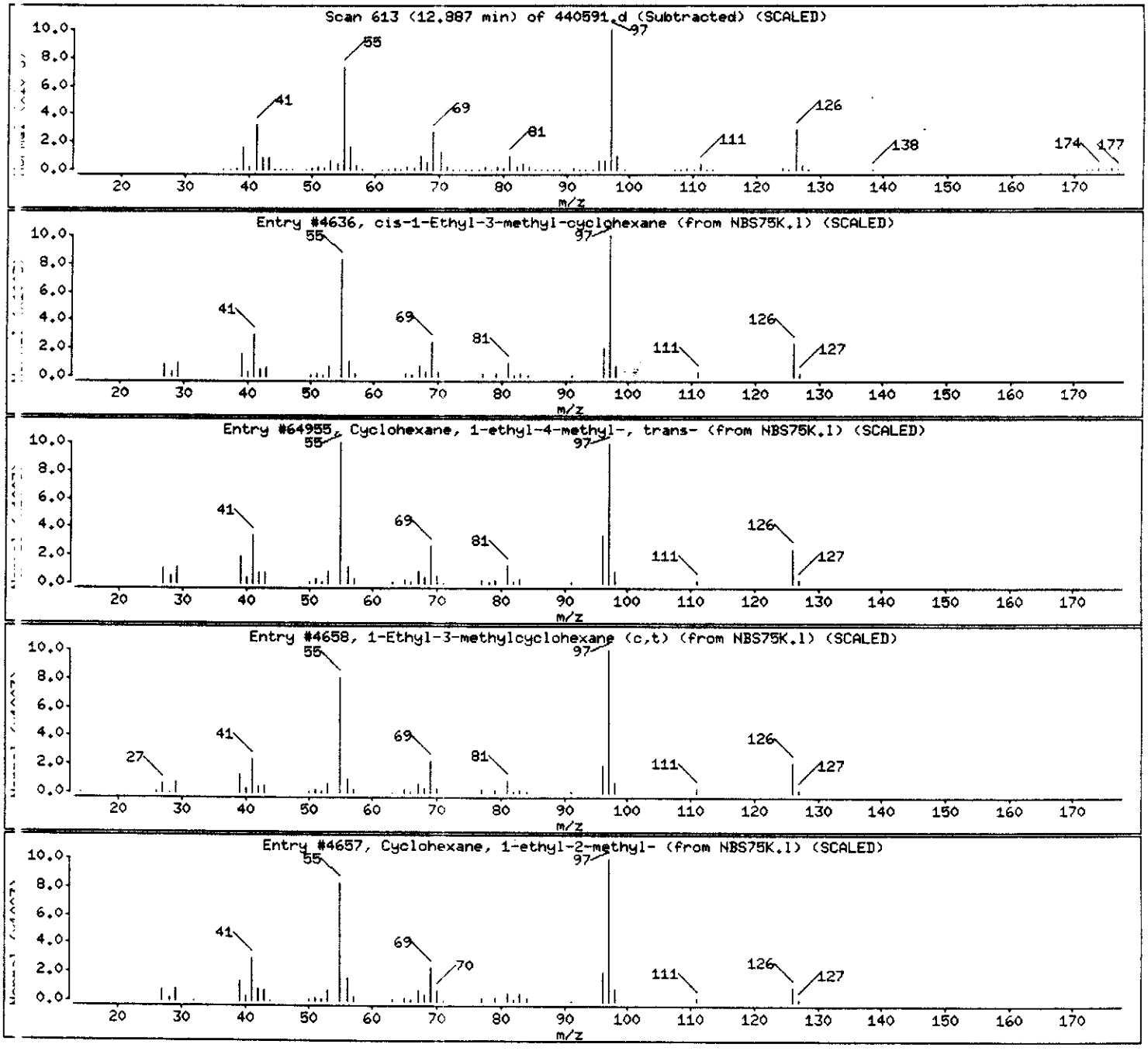
Client ID: CAEA12110007 Instrument: W.i

Sample Info: 440591;029ACAEA12110007;81024;1218L4

Purge Volume: 200.0 Operator: GMH

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown alkylcyclohexane						
cis-1-Ethyl-3-methyl-cyclohexane	19489-10-2	NBS75K.l	4636	87	C9H18	126
Cyclohexane, 1-ethyl-4-methyl-, trans-	6236-88-0	NBS75K.l	64955	87	C9H18	126
1-Ethyl-3-methylcyclohexane (c,t)	3728-55-0	NBS75K.l	4658	87	C9H18	126
Cyclohexane, 1-ethyl-2-methyl-	3728-54-9	NBS75K.l	4657	83	C9H18	126



Data File: /chem/W.i/Wsvr.p/wceto14.b/440591.d

Date : 18-DEC-2000 17:41

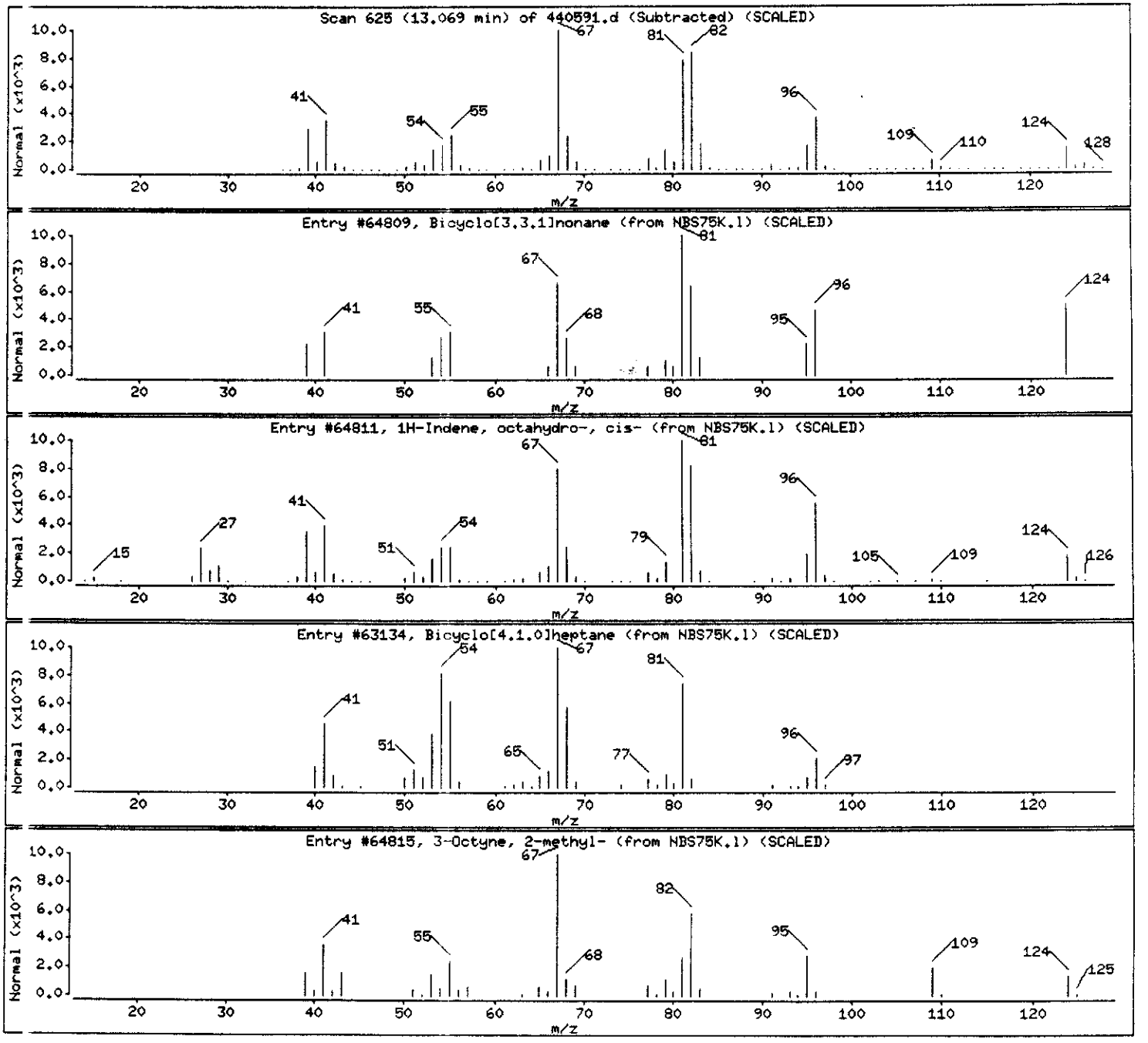
Client ID: CAEA12110007 Instrument: W.i

Sample Info: 440591;029ACAEA12110007;81024;1218L4

Purge Volume: 200.0 Operator: GMH

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Bicyclo[3.3.1]nonane	280-65-9	NBS75K.l	64809	70	C9H16	124
1H-Indene, octahydro-, cis-	4551-51-3	NBS75K.l	64811	64	C9H16	124
Bicyclo[4.1.0]heptane	286-08-8	NBS75K.l	63134	49	C7H12	96
3-Octyne, 2-methyl-	55402-15-8	NBS75K.l	64815	49	C9H16	124



FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ACCANA SAMPLE NO.

CAIA12110007

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81024

Matrix: (soil/water) AIR Lab Sample ID: 440589

Sample wt/vol: 200 (g/mL) ML Lab File ID: 440589

Level: (low/med) LOW Date Received: 12/15/00

% Moisture: not dec. _____ Date Analyzed: 12/18/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-09-2	Methylene Chloride	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
67-66-3	Chloroform	0.82	
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
1330-20-7	Xylene (m,p)	0.50	U
95-47-6	Xylene (o)	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ACCANA SAMPLE NO.

CAIA12110007

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81024

Matrix: (soil/water) AIR Lab Sample ID: 440589

Sample wt/vol: 200 (g/mL) ML Lab File ID: 440589

Level: (low/med) LOW Date Received: 12/15/00

% Moisture: not dec. _____ Date Analyzed: 12/18/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ppbv

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
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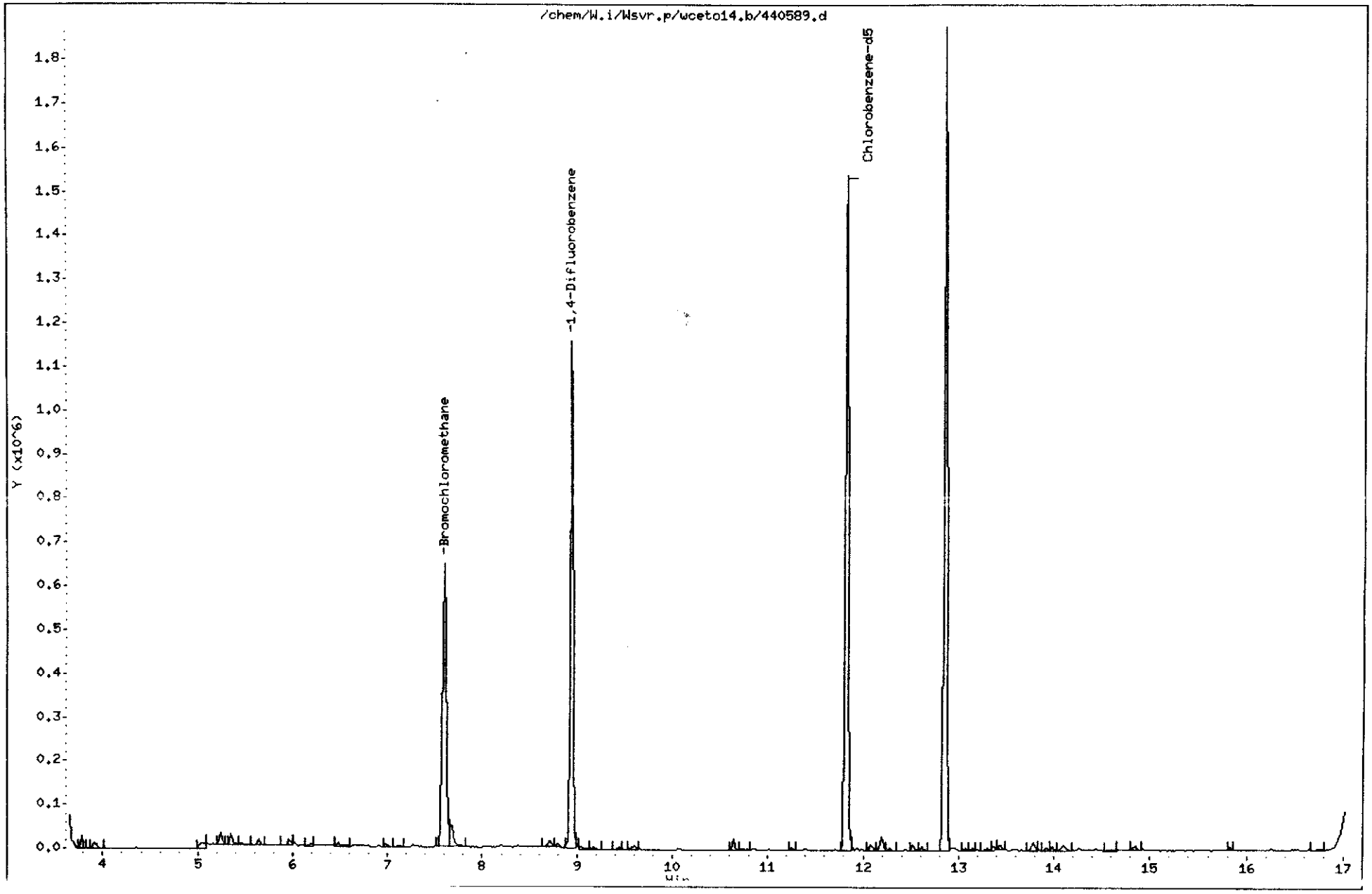
26.				
27.				
28.				
29.				
30.				

Data File: /chem/W.i/Wsvr.p/wceto14.b/440589.d
Date : 18-DEC-2000 16:35
Client ID: CAIA12110007
Sample Info: 440589;029ACAIA12110007;81024;1218L4
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i
Operator: GMM
Column diameter: 0.35



STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wceto14.b/440589.d
Lab Smp Id: 440589 Client Smp ID: CAIA12110007
Inj Date : 18-DEC-2000 16:35
Operator : GMM Inst ID: W.i
Smp Info : 440589;029ACAIA12110007;81024;1218L4
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wceto14.b/ato14.m
Meth Date : 26-Dec-2000 14:40 mim Quant Type: ISTD
Cal Date : 18-DEC-2000 13:44 Cal File: ce010i2.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA2.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)	
2 Chloromethane	50	Compound Not Detected.						
4 Vinyl Chloride	62	Compound Not Detected.						
5 Bromomethane	94	Compound Not Detected.						
6 Chloroethane	64	Compound Not Detected.						
7 Trichlorofluoromethane	101	Compound Not Detected.						
9 Methylene Chloride	49	Compound Not Detected.						
11 1,1-Dichloroethane	63	Compound Not Detected.						
12 cis-1,2-Dichloroethene	61	Compound Not Detected.						
* 13 Bromochloromethane	128	7.592	7.621	(1.000)	276854	10.0000		(Q)
14 Chloroform	83	7.683	7.697	(1.012)	44740	0.82112	0.82	
15 1,2-Dichloroethane	62	Compound Not Detected.						
16 1,1,1-Trichloroethane	97	Compound Not Detected.						
17 Benzene	78	Compound Not Detected.						
18 Carbon Tetrachloride	117	Compound Not Detected.						

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
*	19 1,4-Difluorobenzene	114	8.942	8.956	(1.000)	1017241	10.0000	
	20 1,2-Dichloropropane	63	Compound Not Detected.					
	21 Trichloroethene	95	Compound Not Detected.					
	22 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	23 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	24 1,1,2-Trichloroethane	83	Compound Not Detected.					
	25 Toluene	92	Compound Not Detected.					
	27 Tetrachloroethene	166	Compound Not Detected.					
*	28 Chlorobenzene-d5	117	11.826	11.840	(1.000)	1060364	10.0000	
	29 Chlorobenzene	112	Compound Not Detected.					
	30 Ethylbenzene	91	Compound Not Detected.					
	31 Xylene (m,p)	106	Compound Not Detected.					
	32 Styrene	104	Compound Not Detected.					
M	33 Xylene (total)	106	Compound Not Detected.					
	34 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	35 Xylene (o)	106	Compound Not Detected.					
	38 1,3-Dichlorobenzene	146	Compound Not Detected.					
	39 1,4-Dichlorobenzene	146	Compound Not Detected.					
	40 1,2-Dichlorobenzene	146	Compound Not Detected.					

QC Flag Legend

Q - Qualifier signal failed the ratio test.

STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wceto14.b/440589.d
Lab Smp Id: 440589 Client Smp ID: CAIA12110007
Inj Date : 18-DEC-2000 16:35
Operator : GMM Inst ID: W.i
Smp Info : 440589;029ACAIA12110007;81024;1218L4
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wceto14.b/ato14.m
Meth Date : 26-Dec-2000 14:40 mim Quant Type: ISTD
Cal Date : 18-DEC-2000 13:44 Cal File: ce010i2.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA2.sub
Target Version: 3.50
Processing Host: chemsvr4

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: /chem/W.i/Wsvr.p/wceto14.b/440589.d

Date : 18-DEC-2000 16:35

Client ID: CAIA12110007

Instrument: W.i

Sample Info: 440589;029ACAIA12110007;81024;1218L4

Purge Volume: 200.0

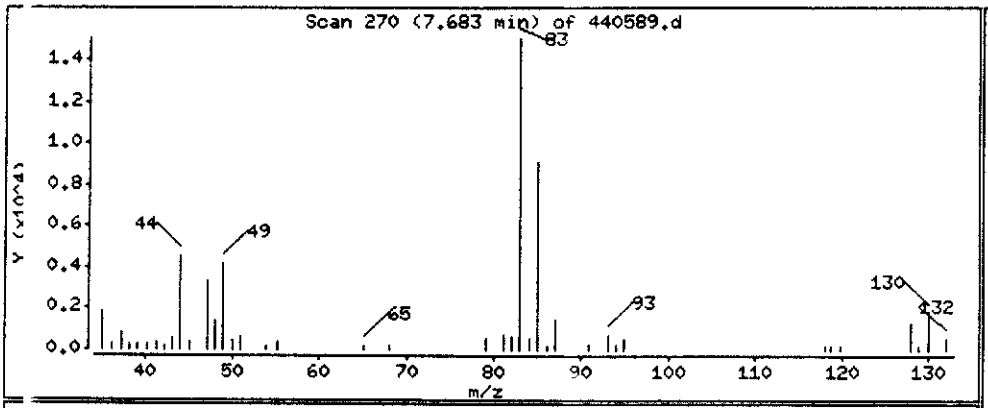
Operator: GMH

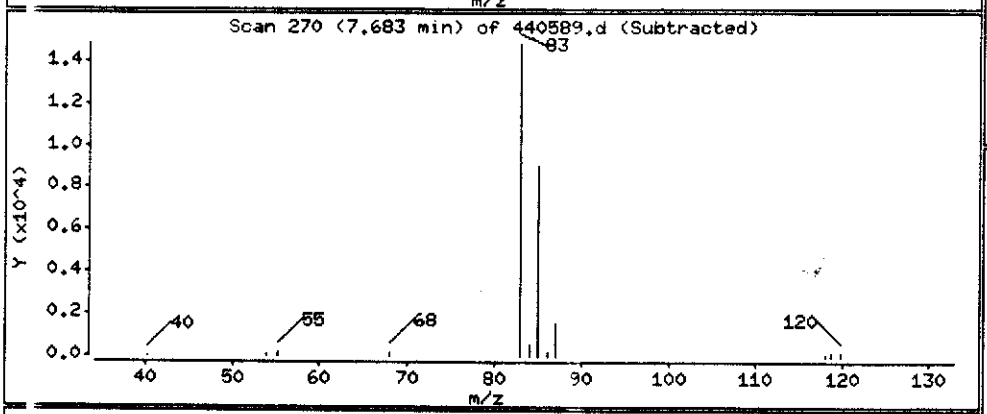
Column phase: DB-1

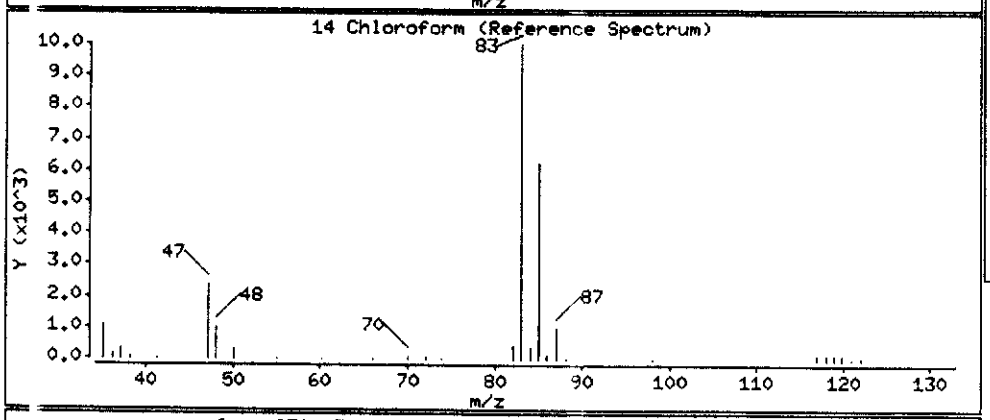
Column diameter: 0.35

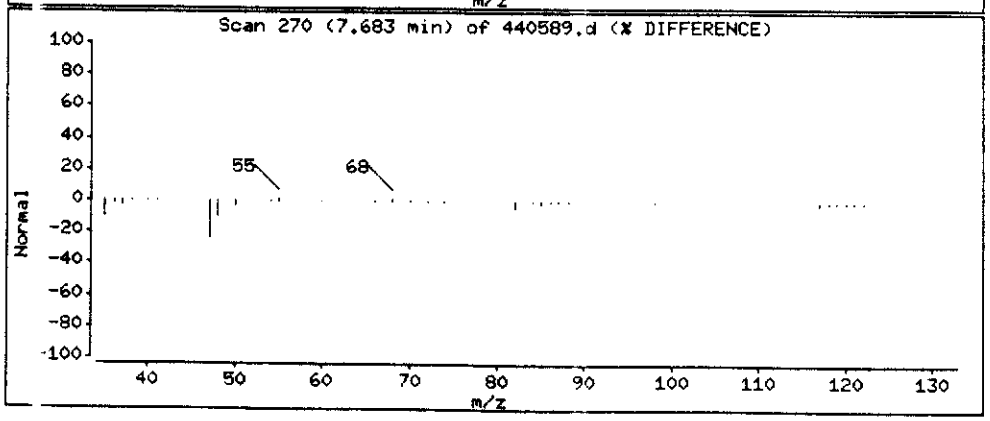
14 Chloroform

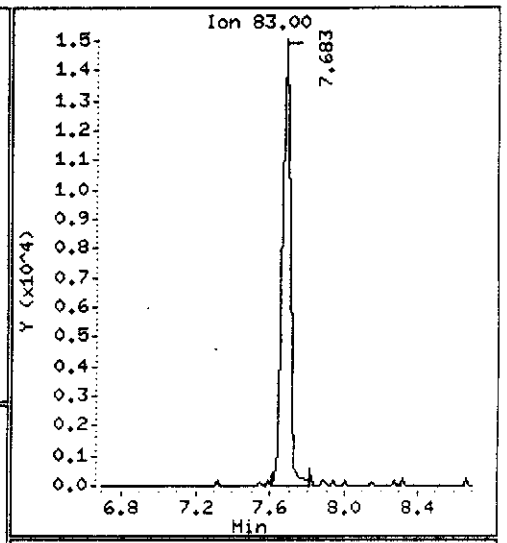
Concentration: 0.82 ppbv

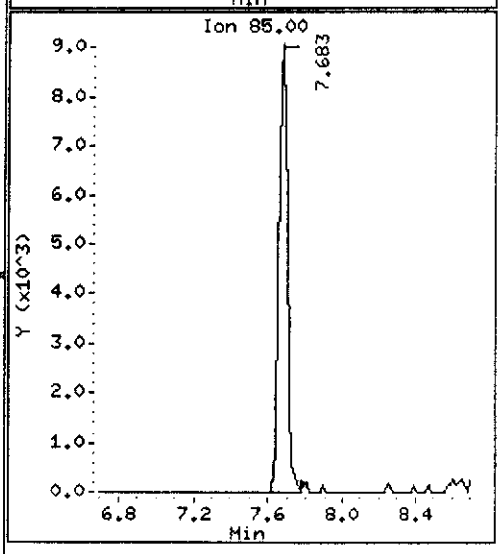












SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

METHOD TO-14A
VOLATILE ORGANIC ANALYSIS

STANDARDS

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81024

Instrument ID: W Calibration Date(s): 12/18/00 12/18/00

Heated Purge: (Y/N) N Calibration Time(s): 1004 1344

GC Column: DB-1 ID: 0.35 (mm)

LAB FILE ID: RRF0.5=CE0005I2 RRF5 =CE005
RRF10 =CE010I2 RRF20 =CE020 RRF40 =CE040

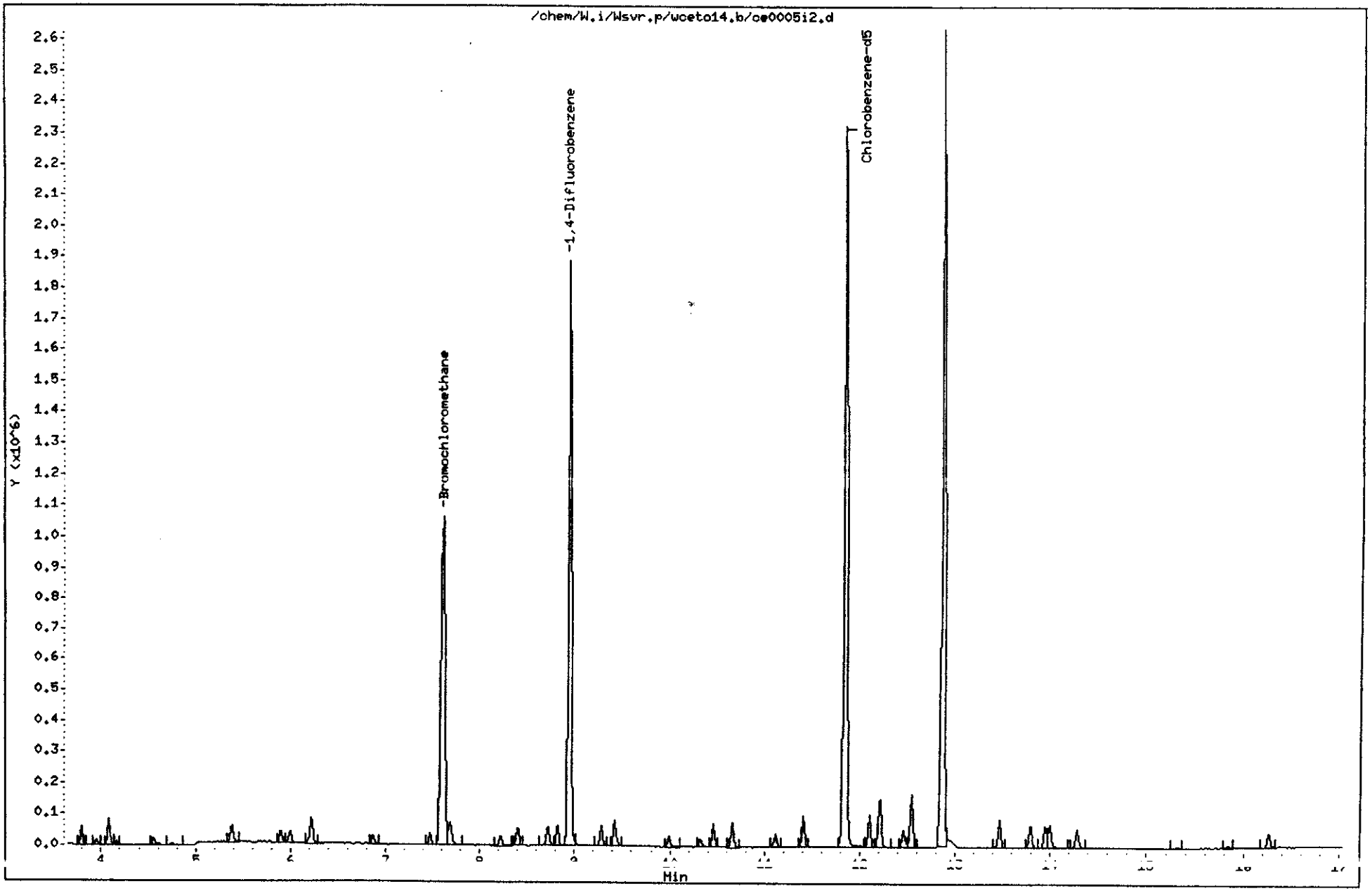
COMPOUND	RRF0.5	RRF5	RRF10	RRF20	RRF40	$\overline{RRF}$	% RSD
Chloromethane *	0.676	0.647	0.614	0.523	0.506	0.593	12.7*
Vinyl Chloride	0.684	0.692	0.670	0.585	0.560	0.638	9.6
Bromomethane	0.930	0.929	0.813	0.716	0.726	0.823	12.7
Chloroethane	0.428	0.438	0.397	0.338	0.364	0.393	10.7
Trichlorofluoromethane	2.520	2.478	2.222	2.042	1.935	2.239	11.5
Methylene Chloride	1.446	0.967	0.906	0.773	0.762	0.971	28.8
1,1-Dichloroethane *	1.704	1.696	1.495	1.291	1.260	1.489	14.3*
cis-1,2-Dichloroethene	1.192	1.248	1.102	1.064	0.950	1.111	10.4
Chloroform	2.265	2.167	1.952	1.815	1.642	1.968	12.9
1,1,1-Trichloroethane	2.100	2.091	1.801	1.750	1.609	1.870	11.6
Carbon Tetrachloride	0.491	0.445	0.427	0.381	0.360	0.421	12.3
Benzene	0.698	0.610	0.551	0.514	0.480	0.571	15.1
1,2-Dichloroethane	1.482	1.427	1.286	1.240	1.175	1.322	9.7
Trichloroethene	0.331	0.301	0.273	0.249	0.232	0.277	14.3
1,2-Dichloropropane	0.255	0.231	0.210	0.194	0.181	0.214	13.8
cis-1,3-Dichloropropene	0.246	0.253	0.258	0.256	0.263	0.255	2.5
Toluene	0.421	0.442	0.404	0.361	0.354	0.396	9.6
trans-1,3-Dichloropropene	0.172	0.182	0.166	0.189	0.194	0.181	6.3
1,1,2-Trichloroethane	0.264	0.248	0.227	0.206	0.192	0.227	12.9
Tetrachloroethene	0.358	0.342	0.309	0.279	0.272	0.312	12.1
Chlorobenzene *	0.660	0.562	0.521	0.462	0.445	0.530	16.3*
Ethylbenzene	1.003	1.015	0.938	0.819	0.788	0.913	11.4
Xylene (total)	1.097	1.031	0.992	0.889	0.902	0.982	8.9
Styrene	0.363	0.243	0.334	0.360	0.343	0.329	15.0
Xylene (m,p)	0.368	0.347	0.334	0.298	0.302	0.330	9.0
Xylene (o)	0.362	0.337	0.324	0.293	0.297	0.323	8.9
1,1,2,2-Tetrachloroethane	0.661	0.542	0.513	0.459	0.451	0.525	16.1
1,3-Dichlorobenzene	0.478	0.424	0.398	0.398	0.434	0.426	7.8
1,4-Dichlorobenzene	0.558	0.374	0.408	0.405	0.433	0.436	16.4
1,2-Dichlorobenzene	0.394	0.306	0.319	0.330	0.366	0.343	10.6

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

Data File: /chem/W.i/Wsvr.p/wcetc14.b/ce0005i2.d
Date : 18-DEC-2000 12:23
Client ID: ASTD0005
Sample Info: ASTD0005;ASTD0005
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i

Operator: GMH
Column diameter: 0.35



STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wceto14.b/ce0005i2.d
Lab Smp Id: ASTD0005 Client Smp ID: ASTD0005
Inj Date : 18-DEC-2000 12:23
Operator : GMM Inst ID: W.i
Smp Info : ASTD0005;ASTD0005
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wceto14.b/ato14.m
Meth Date : 26-Dec-2000 14:39 mim Quant Type: ISTD
Cal Date : 18-DEC-2000 12:23 Cal File: ce0005i2.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
1 Dichlorodifluoromethane	85	3.796	3.797	(0.499)	53040	0.50000	0.60
2 Chloromethane	50	3.955	3.955	(0.520)	12675	0.50000	0.57
3 Dichlorotetrafluoroethane	85	4.084	4.085	(0.537)	55549	0.50000	0.62
4 Vinyl Chloride	62	4.171	4.171	(0.548)	12834	0.50000	0.54
5 Bromomethane	94	4.546	4.546	(0.598)	17437	0.50000	0.56
6 Chloroethane	64	4.748	4.719	(0.624)	8035	0.50000	0.55
7 Trichlorofluoromethane	101	5.391	5.375	(0.709)	47243	0.50000	0.56
8 1,1-Dichloroethene	96	5.907	5.891	(0.777)	17351	0.50000	0.58(M)
9 Methylene Chloride	49	5.998	5.982	(0.789)	27113	0.50000	0.73
10 Freon TF	101	6.210	6.210	(0.816)	39975	0.50000	0.59
11 1,1-Dichloroethane	63	6.878	6.892	(0.904)	31950	0.50000	0.57
12 cis-1,2-Dichloroethene	61	7.470	7.484	(0.982)	22343	0.50000	0.54
* 13 Bromochloromethane	128	7.607	7.621	(1.000)	374987	10.0000	
14 Chloroform	83	7.682	7.697	(1.010)	42461	0.50000	0.57

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
	15 1,2-Dichloroethane	62	8.229	8.243	(1.082)	27782	0.50000	0.56
	16 1,1,1-Trichloroethane	97	8.396	8.425	(1.104)	39376	0.50000	0.56
	17 Benzene	78	8.730	8.744	(0.976)	59605	0.50000	0.61
	18 Carbon Tetrachloride	117	8.821	8.835	(0.986)	41908	0.50000	0.58
*	19 1,4-Difluorobenzene	114	8.942	8.956	(1.000)	1707532	10.0000	
	20 1,2-Dichloropropane	63	9.276	9.290	(1.037)	21753	0.50000	0.59
	21 Trichloroethene	95	9.428	9.442	(1.054)	28232	0.50000	0.59
	24 1,1,2-Trichloroethane	83	10.460	10.474	(1.170)	22526	0.50000	0.58
	25 Toluene	92	10.657	10.656	(0.900)	36694	0.50000	0.53
	26 1,2-Dibromoethane	107	11.112	11.126	(0.938)	30344	0.50000	0.53
	27 Tetrachloroethene	166	11.416	11.415	(0.964)	31211	0.50000	0.57
*	28 Chlorobenzene-d5	117	11.841	11.840	(1.000)	1741227	10.0000	
	29 Chlorobenzene	112	11.871	11.870	(1.003)	57496	0.50000	0.62(Q)
	30 Ethylbenzene	91	12.099	12.098	(1.022)	87352	0.50000	0.55
	31 Xylene (m,p)	106	12.220	12.219	(1.032)	64016	1.00000	1.1
	32 Styrene	104	12.463	12.462	(1.053)	31615	0.50000	0.55
M	33 Xylene (total)	106				95537	0.50000	1.7
	34 1,1,2,2-Tetrachloroethane	83	12.523	12.523	(1.058)	57530	0.50000	0.62
	35 Xylene (o)	106	12.539	12.538	(1.059)	31521	0.50000	0.56
	36 1,3,5-Trimethylbenzene	105	13.464	13.463	(1.137)	59560	0.50000	0.52
	37 1,2,4-Trimethylbenzene	105	13.798	13.782	(1.165)	55772	0.50000	0.53
	38 1,3-Dichlorobenzene	146	13.950	13.934	(1.178)	41631	0.50000	0.55
	39 1,4-Dichlorobenzene	146	13.996	13.995	(1.182)	48546	0.50000	0.63
	40 1,2-Dichlorobenzene	146	14.284	14.283	(1.206)	34349	0.50000	0.56
	42 Hexachlorobutadiene	225	16.257	16.271	(1.373)	10308	0.50000	0.69

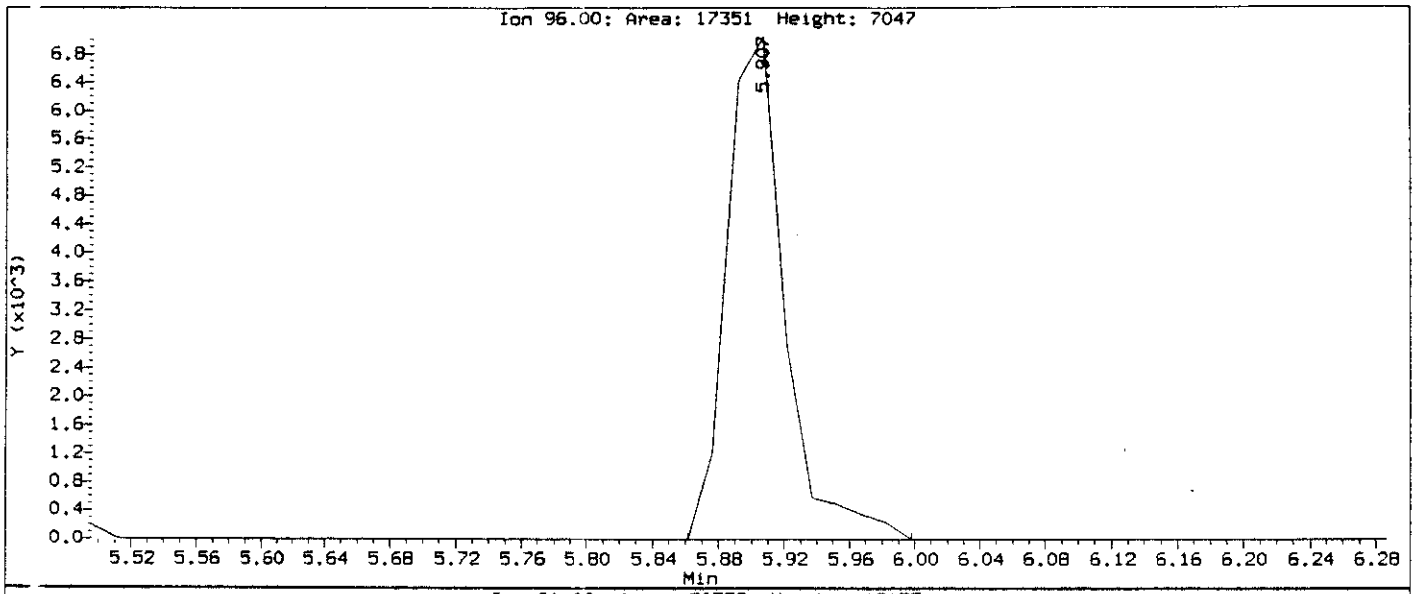
QC Flag Legend

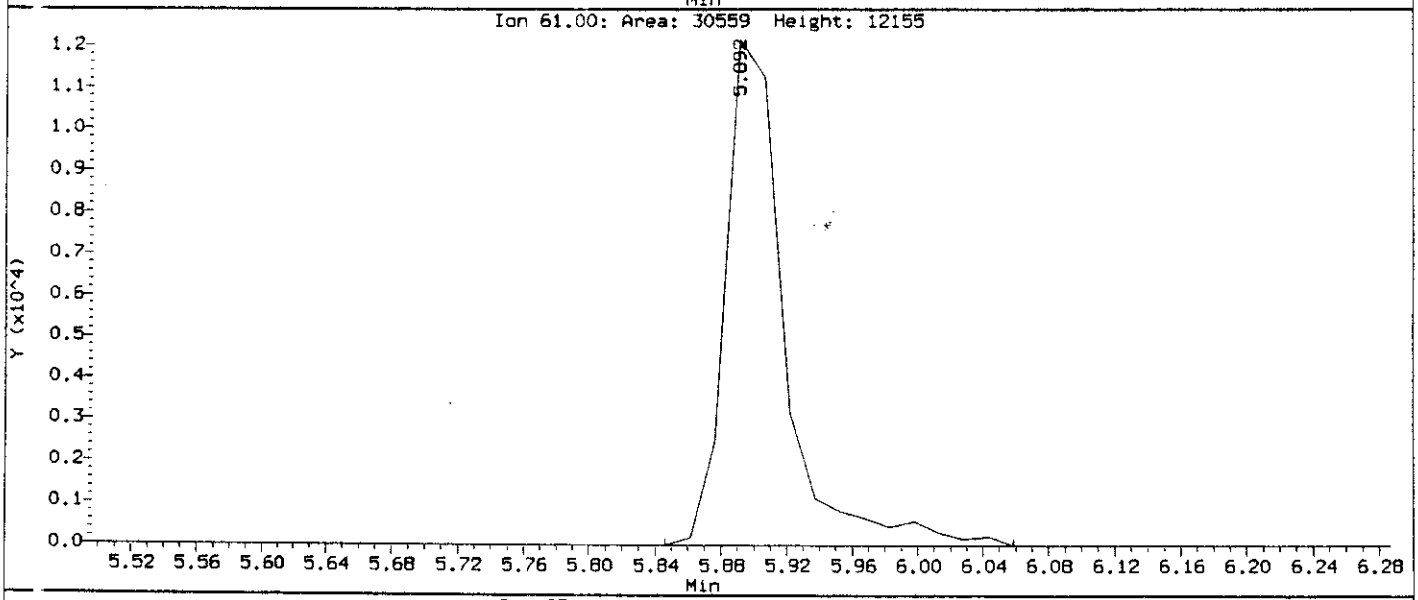
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

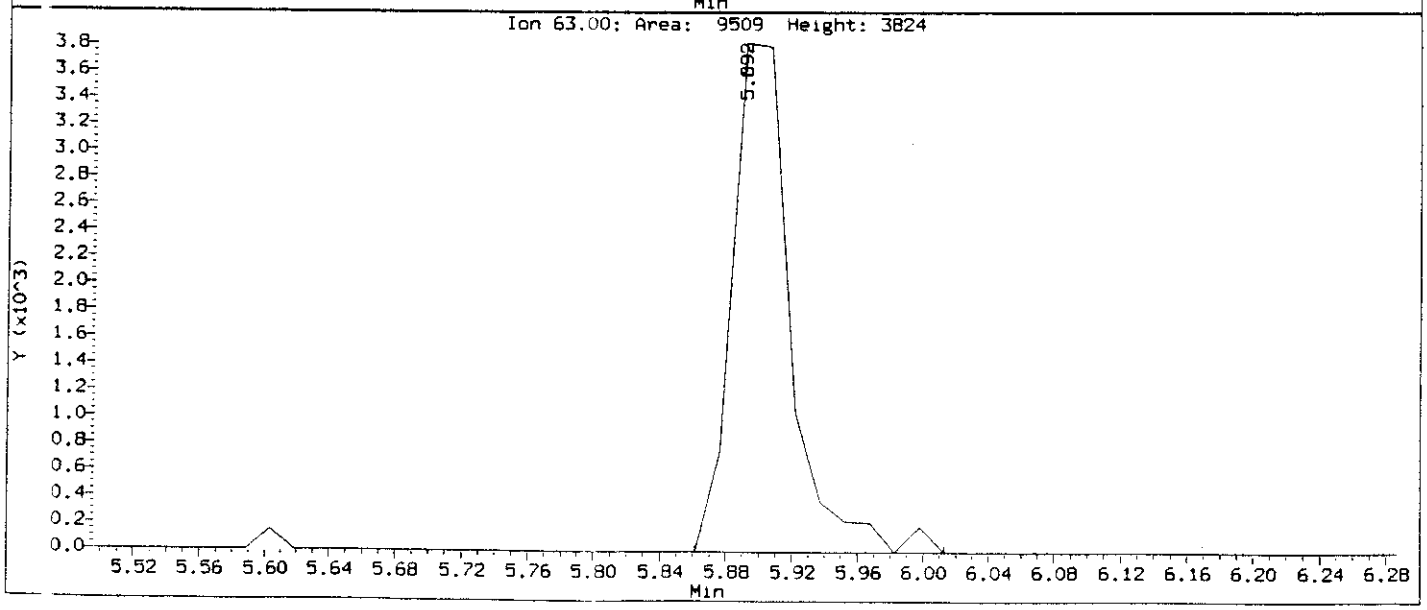
MVM 12/28/00

Data File: /chem/W.i/Wsvr.p/wceto14.b/ce000512.d
Injection Date: 18-DEC-2000 12:23
Instrument: W.i
Client Sample ID: ASTD0005

Compound: 1,1-Dichloroethene
CAS Number: 75-35-4



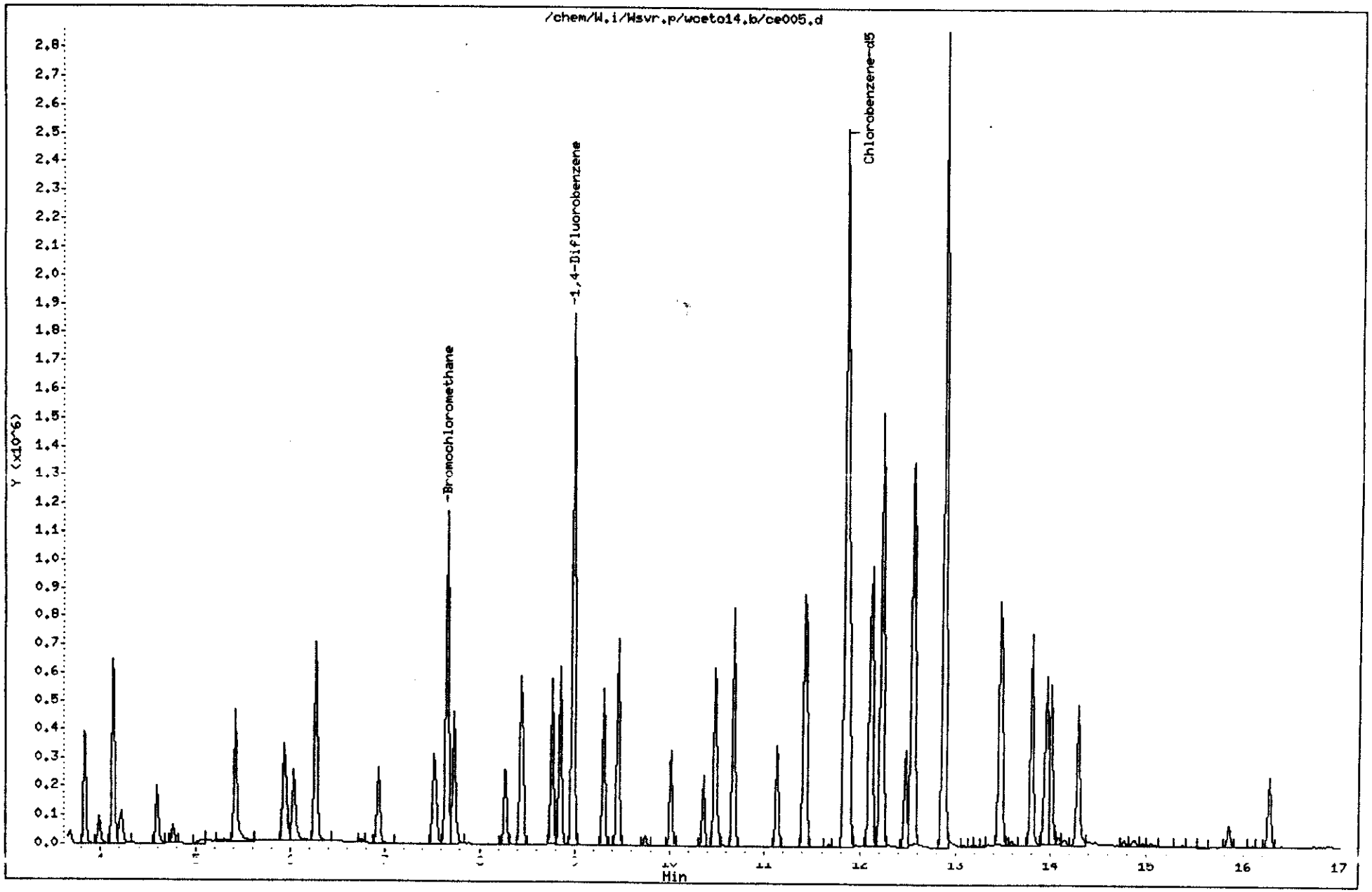




Data File: /chem/W.i/Wsvr.p/wceto14.b/ce005.d
Date : 18-DEC-2000 11:14
Client ID: ASTD005
Sample Info: ASTD005;ASTD005
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i

Operator: GMH
Column diameter: 0.35



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STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wceto14.b/ce005.d
Lab Smp Id: ASTD005 Client Smp ID: ASTD005
Inj Date : 18-DEC-2000 11:14
Operator : GMM Inst ID: W.i
Smp Info : ASTD005;ASTD005
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wceto14.b/ato14.m
Meth Date : 26-Dec-2000 14:39 mim Quant Type: ISTD
Cal Date : 18-DEC-2000 11:14 Cal File: ce005.d
Als bottle: 2 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1 Dichlorodifluoromethane	85	3.826	3.797	(0.500)	455491	5.00000	5.8
2 Chloromethane	50	3.984	3.955	(0.521)	115259	5.00000	5.8
3 Dichlorotetrafluoroethane	85	4.128	4.085	(0.540)	459013	5.00000	5.9
4 Vinyl Chloride	62	4.215	4.171	(0.551)	123329	5.00000	5.6
5 Bromomethane	94	4.590	4.546	(0.600)	165580	5.00000	5.9
6 Chloroethane	64	4.763	4.719	(0.622)	77955	5.00000	5.8(M)
7 Trichlorofluoromethane	101	5.420	5.375	(0.708)	441487	5.00000	5.8
8 1,1-Dichloroethene	96	5.936	5.891	(0.776)	156763	5.00000	5.8
9 Methylene Chloride	49	6.027	5.982	(0.788)	172276	5.00000	5.8
10 Freon TF	101	6.255	6.210	(0.818)	349080	5.00000	5.7
11 1,1-Dichloroethane	63	6.922	6.892	(0.905)	302152	5.00000	6.0
12 cis-1,2-Dichloroethene	61	7.514	7.484	(0.982)	222320	5.00000	5.7
* 13 Bromochloromethane	128	7.651	7.621	(1.000)	356359	10.0000	(Q)
14 Chloroform	83	7.727	7.697	(1.010)	386124	5.00000	5.8

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
	15 1,2-Dichloroethane	62	8.258	8.243	(1.079)	254219	5.00000	5.6
	16 1,1,1-Trichloroethane	97	8.440	8.425	(1.103)	372515	5.00000	5.8
	17 Benzene	78	8.759	8.744	(0.976)	512312	5.00000	5.7
	18 Carbon Tetrachloride	117	8.850	8.835	(0.986)	373259	5.00000	5.6
*	19 1,4-Difluorobenzene	114	8.971	8.956	(1.000)	1678381	10.0000	
	20 1,2-Dichloropropane	63	9.305	9.290	(1.037)	193828	5.00000	5.7
	21 Trichloroethene	95	9.457	9.442	(1.054)	252951	5.00000	5.8
	22 cis-1,3-Dichloropropene	75	10.018	10.003	(1.117)	212702	5.00000	4.9
	23 trans-1,3-Dichloropropene	75	10.352	10.337	(1.154)	152952	5.00000	4.8
	24 1,1,2-Trichloroethane	83	10.473	10.474	(1.167)	208406	5.00000	5.8
	25 Toluene	92	10.671	10.656	(0.901)	390635	5.00000	5.7
	26 1,2-Dibromoethane	107	11.126	11.126	(0.940)	309253	5.00000	5.5
	27 Tetrachloroethene	166	11.430	11.415	(0.965)	301986	5.00000	5.7
*	28 Chlorobenzene-d5	117	11.839	11.840	(1.000)	1767689	10.0000	
	29 Chlorobenzene	112	11.870	11.870	(1.003)	496693	5.00000	5.7
	30 Ethylbenzene	91	12.112	12.098	(1.023)	896786	5.00000	5.8
	31 Xylene (m,p)	106	12.219	12.219	(1.032)	613146	10.0000	11
	32 Styrene	104	12.477	12.462	(1.054)	214881	5.00000	3.8
M	33 Xylene (total)	106				911296	5.00000	16
	34 1,1,2,2-Tetrachloroethane	83	12.537	12.523	(1.059)	478780	5.00000	5.6
	35 Xylene (o)	106	12.553	12.538	(1.060)	298150	5.00000	5.4
	36 1,3,5-Trimethylbenzene	105	13.463	13.463	(1.137)	595494	5.00000	5.2
	37 1,2,4-Trimethylbenzene	105	13.797	13.782	(1.165)	520967	5.00000	5.0
	38 1,3-Dichlorobenzene	146	13.949	13.934	(1.478)	375239	5.00000	5.1
	39 1,4-Dichlorobenzene	146	13.994	13.995	(1.182)	330578	5.00000	4.6
	40 1,2-Dichlorobenzene	146	14.283	14.283	(1.206)	270268	5.00000	4.6
	41 1,2,4-Trichlorobenzene	180	15.846	15.846	(1.338)	30279	5.00000	3.2
	42 Hexachlorobutadiene	225	16.271	16.271	(1.374)	58823	5.00000	4.4

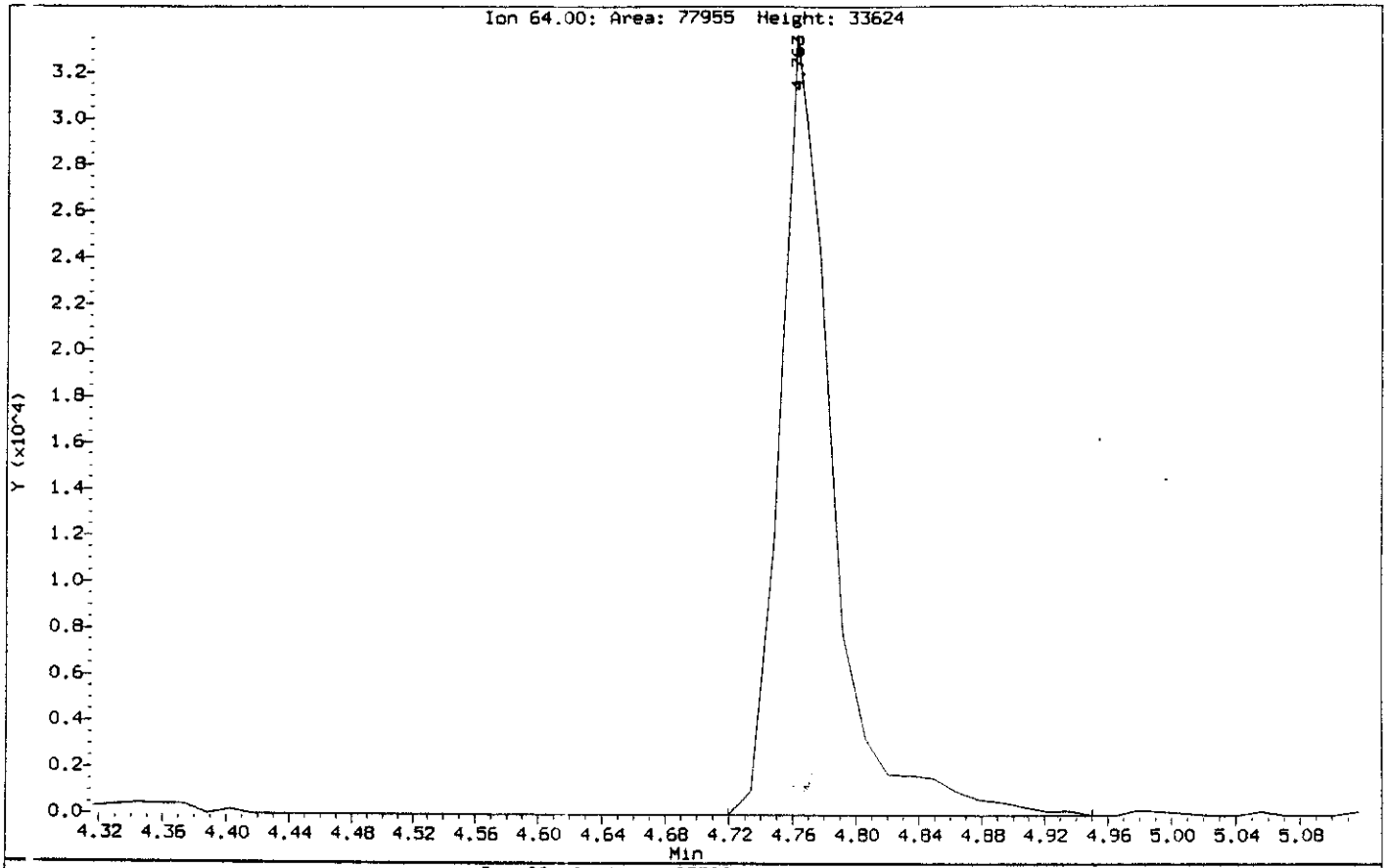
QC Flag Legend

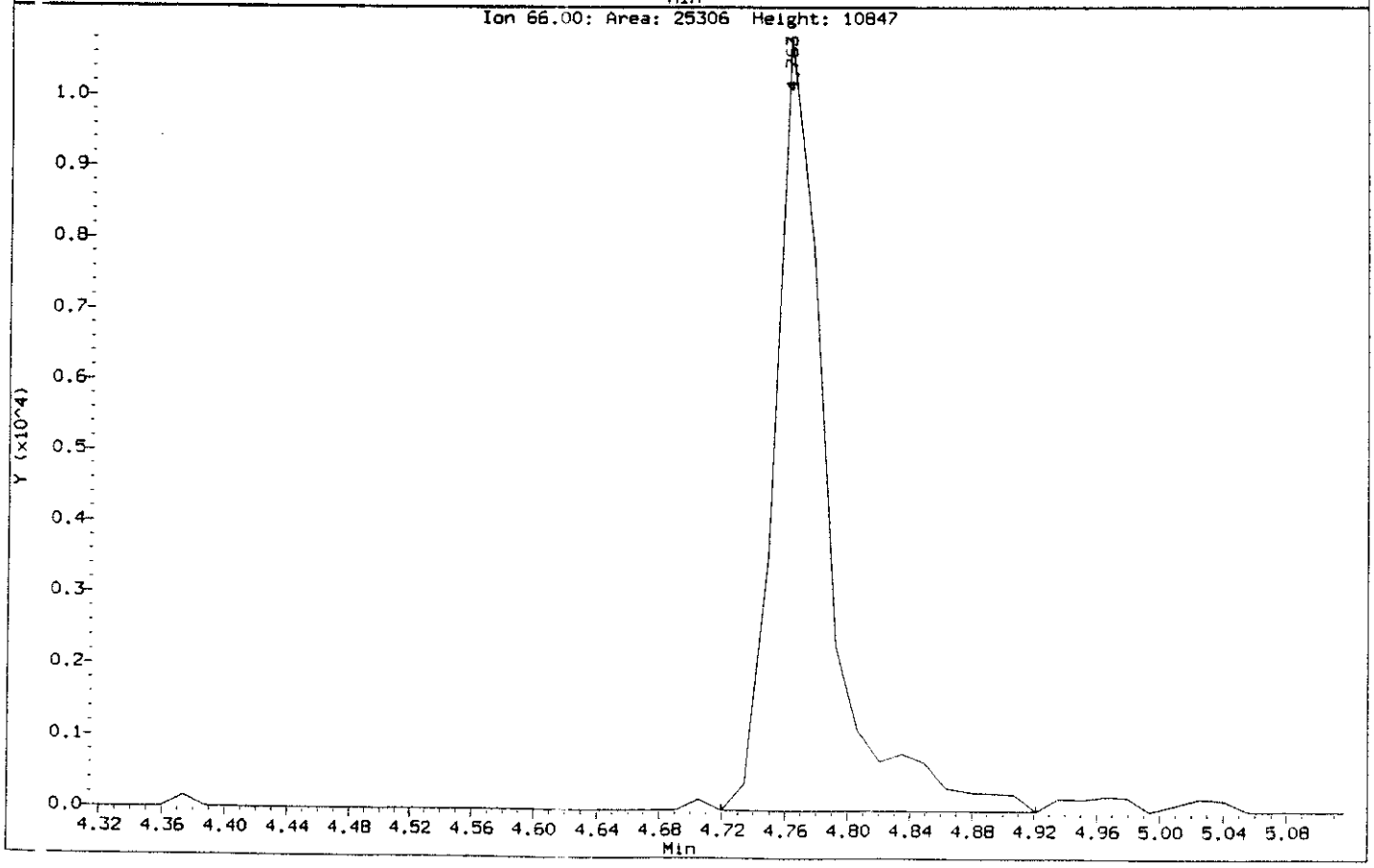
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

MVM 12/26/00

Data File: /chem/W.i/Wsvr.p/wceto14.b/ce005.d
Injection Date: 18-DEC-2000 11:14
Instrument: W.i
Client Sample ID: ASTD005

Compound: Chloroethane
CAS Number: 75-00-3

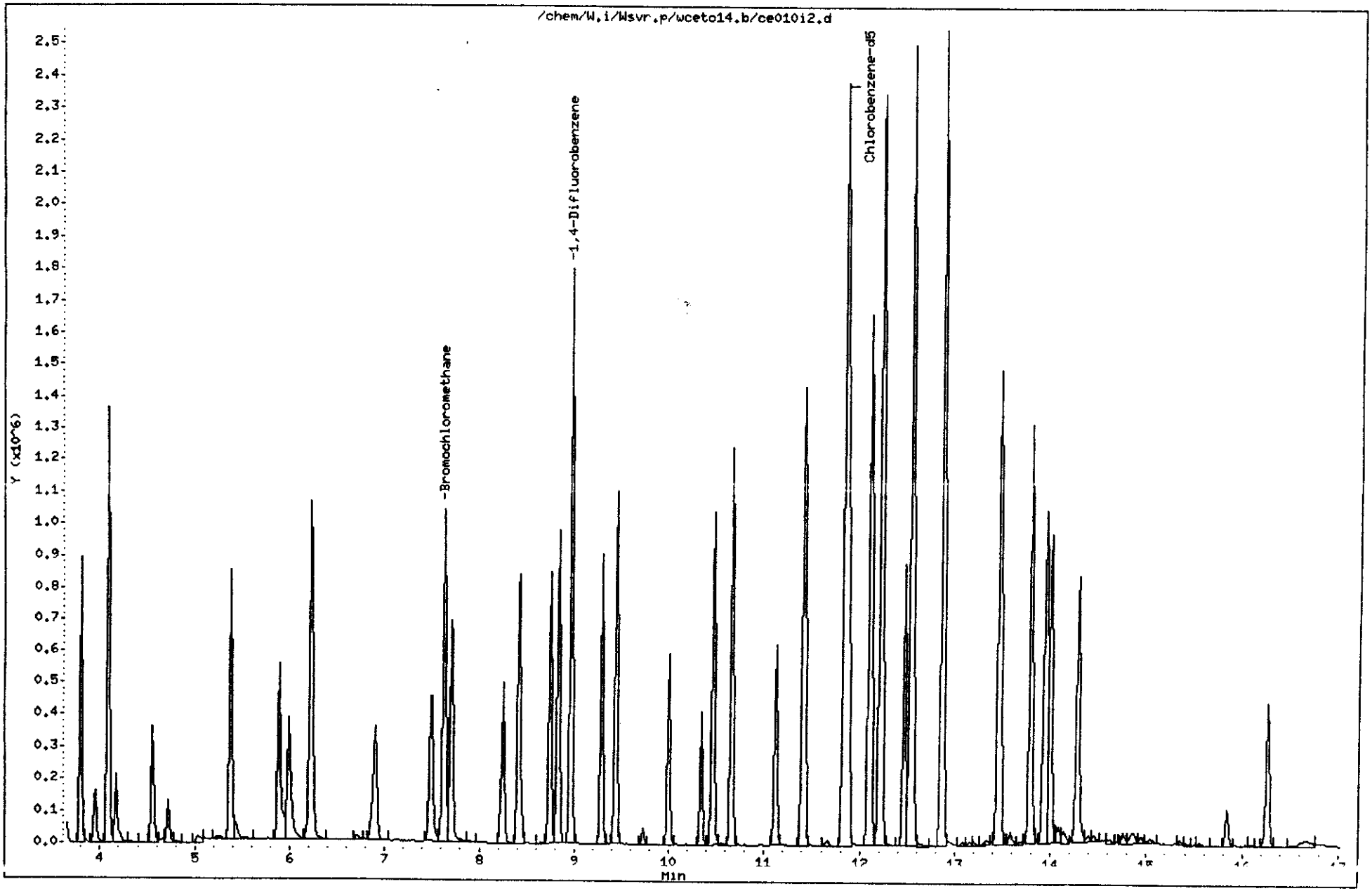




Data File: /chem/W.i/Wsvr.p/wceto14.b/ce01012.d
Date : 18-DEC-2000 13:44
Client ID: ASTD010
Sample Info: ASTD010;ASTD010
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i

Operator: GMM
Column diameter: 0.35



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STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wceto14.b/ce010i2.d
Lab Smp Id: ASTD010 Client Smp ID: ASTD010
Inj Date : 18-DEC-2000 13:44
Operator : GMM Inst ID: W.i
Smp Info : ASTD010;ASTD010
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wceto14.b/ato14.m
Meth Date : 26-Dec-2000 14:40 mim Quant Type: ISTD
Cal Date : 18-DEC-2000 13:44 Cal File: ce010i2.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	1 Dichlorodifluoromethane	85	3.797	3.797	(0.498)	783179	10.0000	9.9
	2 Chloromethane	50	3.955	3.955	(0.519)	206070	10.0000	10
	3 Dichlorotetrafluoroethane	85	4.085	4.085	(0.536)	809859	10.0000	10
	4 Vinyl Chloride	62	4.171	4.171	(0.547)	224852	10.0000	10
	5 Bromomethane	94	4.546	4.546	(0.597)	272737	10.0000	9.9
	6 Chloroethane	64	4.719	4.719	(0.619)	133364	10.0000	10(M)
	7 Trichlorofluoromethane	101	5.375	5.375	(0.705)	745546	10.0000	9.9(M)
	8 1,1-Dichloroethene	96	5.891	5.891	(0.773)	265771	10.0000	9.9
	9 Methylene Chloride	49	5.982	5.982	(0.785)	304170	10.0000	9.3
	10 Freon TF	101	6.210	6.210	(0.815)	611228	10.0000	10
	11 1,1-Dichloroethane	63	6.892	6.892	(0.904)	501522	10.0000	10
	12 cis-1,2-Dichloroethene	61	7.484	7.484	(0.982)	369594	10.0000	9.9
*	13 Bromochloromethane	128	7.621	7.621	(1.000)	335524	10.0000	
	14 Chloroform	83	7.697	7.697	(1.010)	654964	10.0000	9.9

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
	15 1,2-Dichloroethane	62	8.243	8.243	(1.082)	431485	10.0000	9.7
	16 1,1,1-Trichloroethane	97	8.425	8.425	(1.106)	604178	10.0000	9.6
	17 Benzene	78	8.744	8.744	(0.976)	795923	10.0000	9.7
	18 Carbon Tetrachloride	117	8.835	8.835	(0.986)	616952	10.0000	10
*	19 1,4-Difluorobenzene	114	8.956	8.956	(1.000)	1443226	10.0000	
	20 1,2-Dichloropropane	63	9.290	9.290	(1.037)	302529	10.0000	9.8
	21 Trichloroethene	95	9.442	9.442	(1.054)	394714	10.0000	9.9
	22 cis-1,3-Dichloropropene	75	10.003	10.003	(1.117)	371649	10.0000	10
	23 trans-1,3-Dichloropropene	75	10.337	10.337	(1.154)	240262	10.0000	9.2
	24 1,1,2-Trichloroethane	83	10.474	10.474	(1.169)	327884	10.0000	10
	25 Toluene	92	10.656	10.656	(0.900)	608775	10.0000	10
	26 1,2-Dibromoethane	107	11.126	11.126	(0.940)	506187	10.0000	10
	27 Tetrachloroethene	166	11.415	11.415	(0.964)	465030	10.0000	9.9
*	28 Chlorobenzene-d5	117	11.840	11.840	(1.000)	1506068	10.0000	
	29 Chlorobenzene	112	11.870	11.870	(1.003)	785207	10.0000	9.8
	30 Ethylbenzene	91	12.098	12.098	(1.022)	1412489	10.0000	10
	31 Xylene (m,p)	106	12.219	12.219	(1.032)	1006652	20.0000	20
	32 Styrene	104	12.462	12.462	(1.053)	503486	10.0000	10
M	33 Xylene (total)	106				1494475	10.0000	30
	34 1,1,2,2-Tetrachloroethane	83	12.523	12.523	(1.058)	772225	10.0000	9.8
	35 Xylene (o)	106	12.538	12.538	(1.059)	487823	10.0000	10
	36 1,3,5-Trimethylbenzene	105	13.463	13.463	(1.137)	1006840	10.0000	10
	37 1,2,4-Trimethylbenzene	105	13.782	13.782	(1.164)	909158	10.0000	10
	38 1,3-Dichlorobenzene	146	13.934	13.934	(1.177)	598947	10.0000	9.3
	39 1,4-Dichlorobenzene	146	13.995	13.995	(1.182)	614179	10.0000	9.4
	40 1,2-Dichlorobenzene	146	14.283	14.283	(1.206)	481180	10.0000	9.3
	41 1,2,4-Trichlorobenzene	180	15.846	15.846	(1.338)	51665	10.0000	7.3
	42 Hexachlorobutadiene	225	16.271	16.271	(1.374)	101567	10.0000	8.2

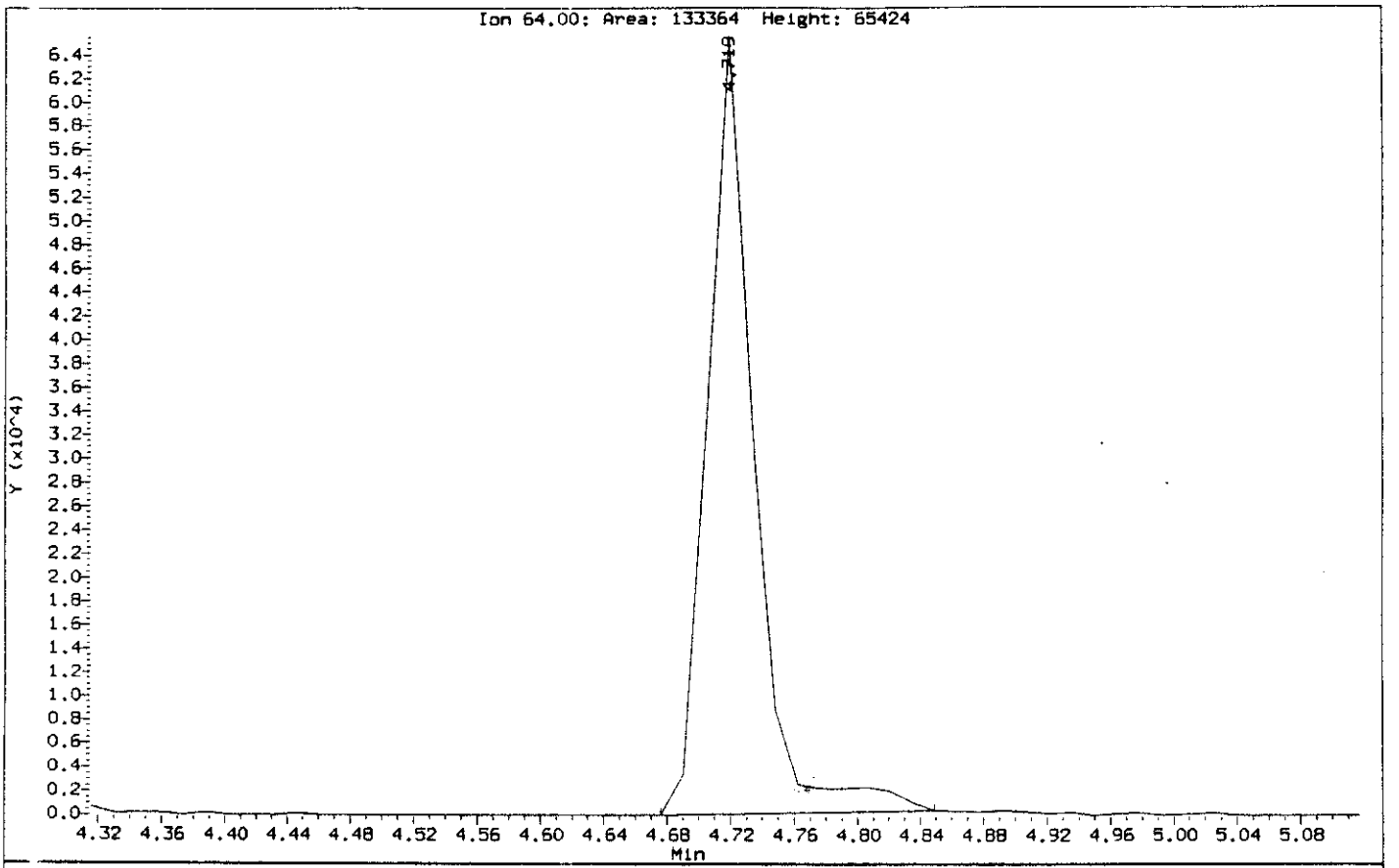
QC Flag Legend

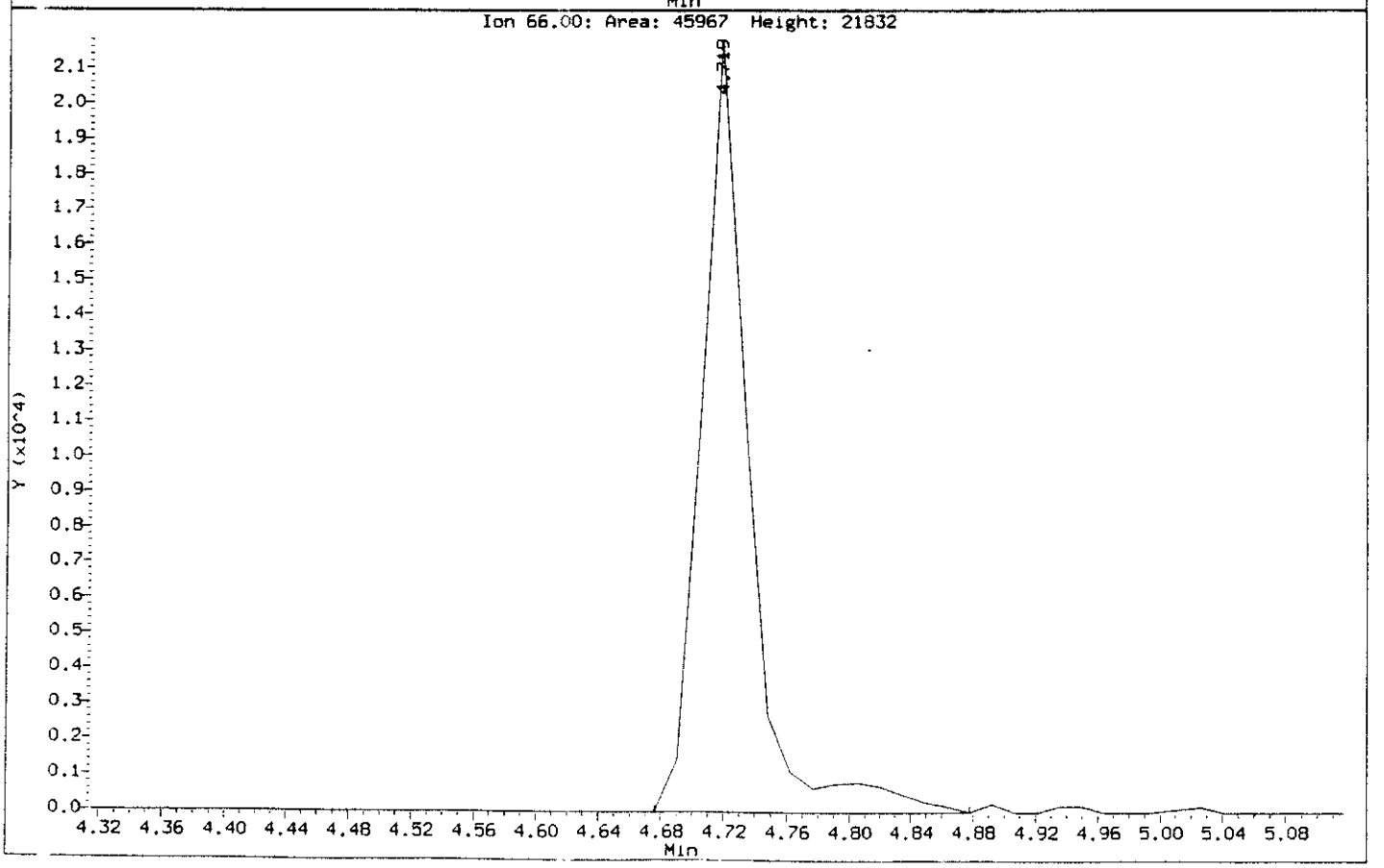
M - Compound response manually integrated.

mm 12/26/00

Da a File: /chem/W.i/Wsvr.p/wceto14.b/ce010i2.d
In ection Date: 18-DEC-2000 13:44
In trument: W.i
Cl ent Sample ID: ASTD010

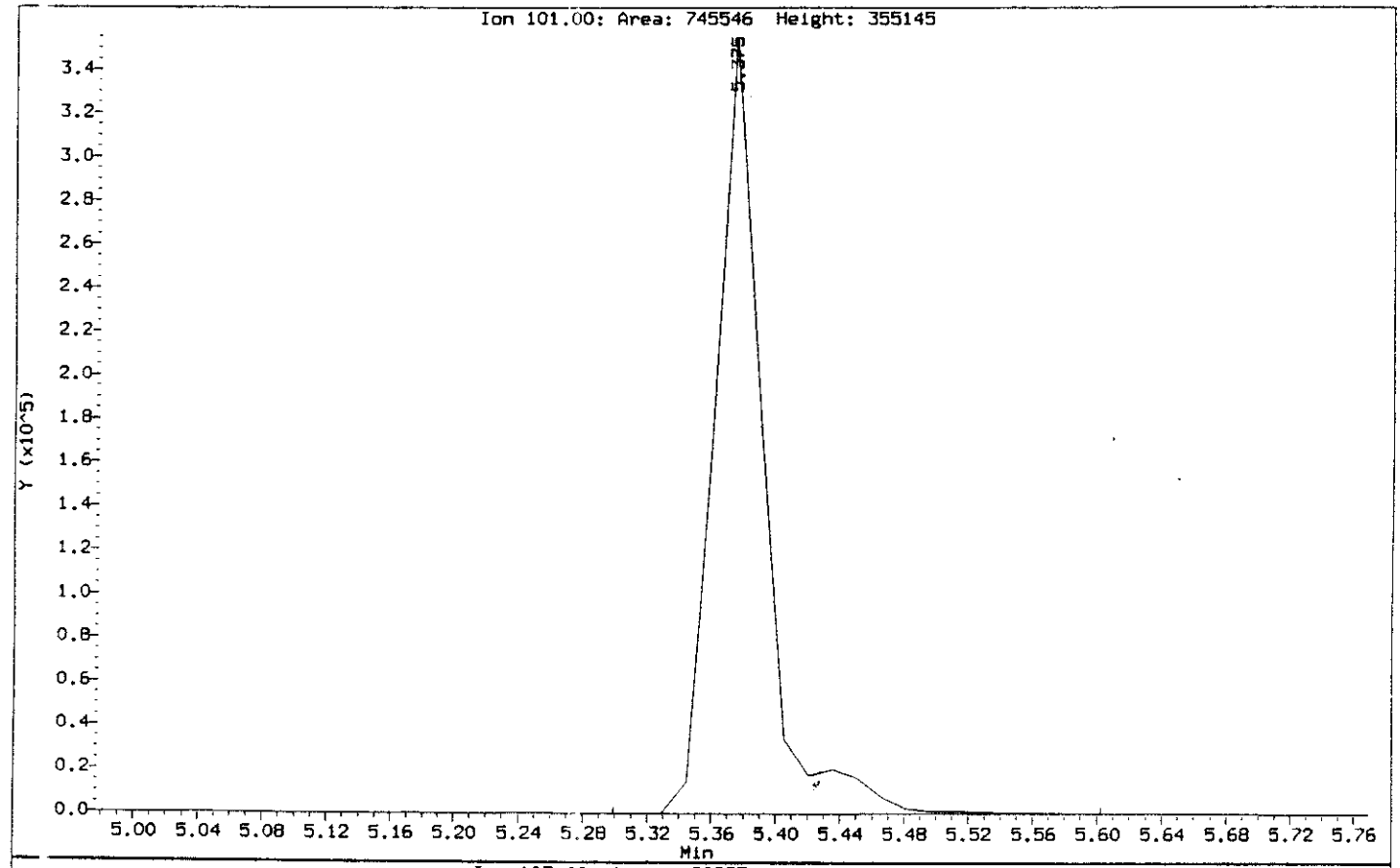
Co pound: Chloroethane
CA Number: 75-00-3

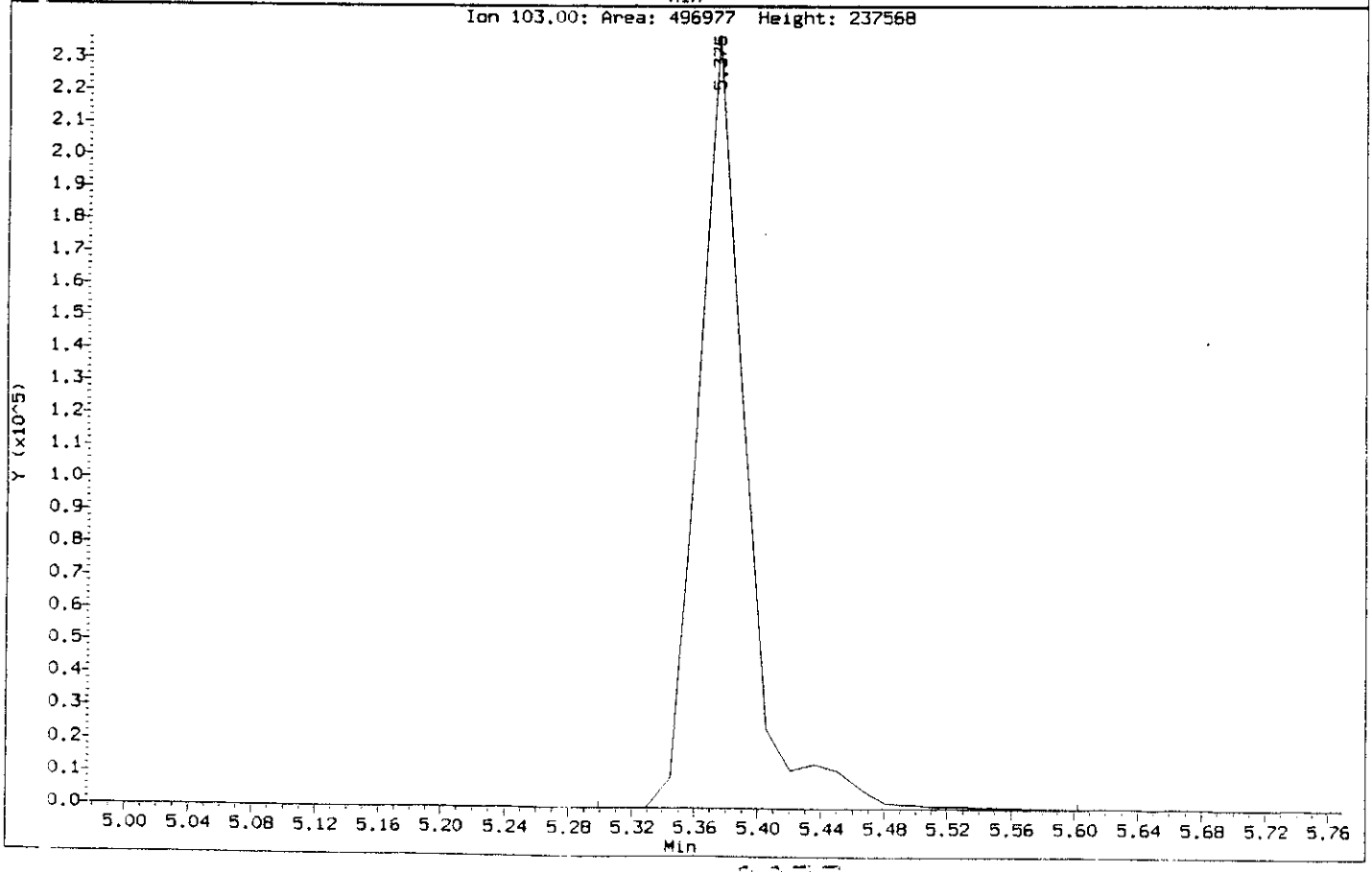




Data File: /chem/W.i/Wsvr.p/wceto14.b/ce01012.d
Injection Date: 18-DEC-2000 13:44
Instrument: W.i
Client Sample ID: ASTD010

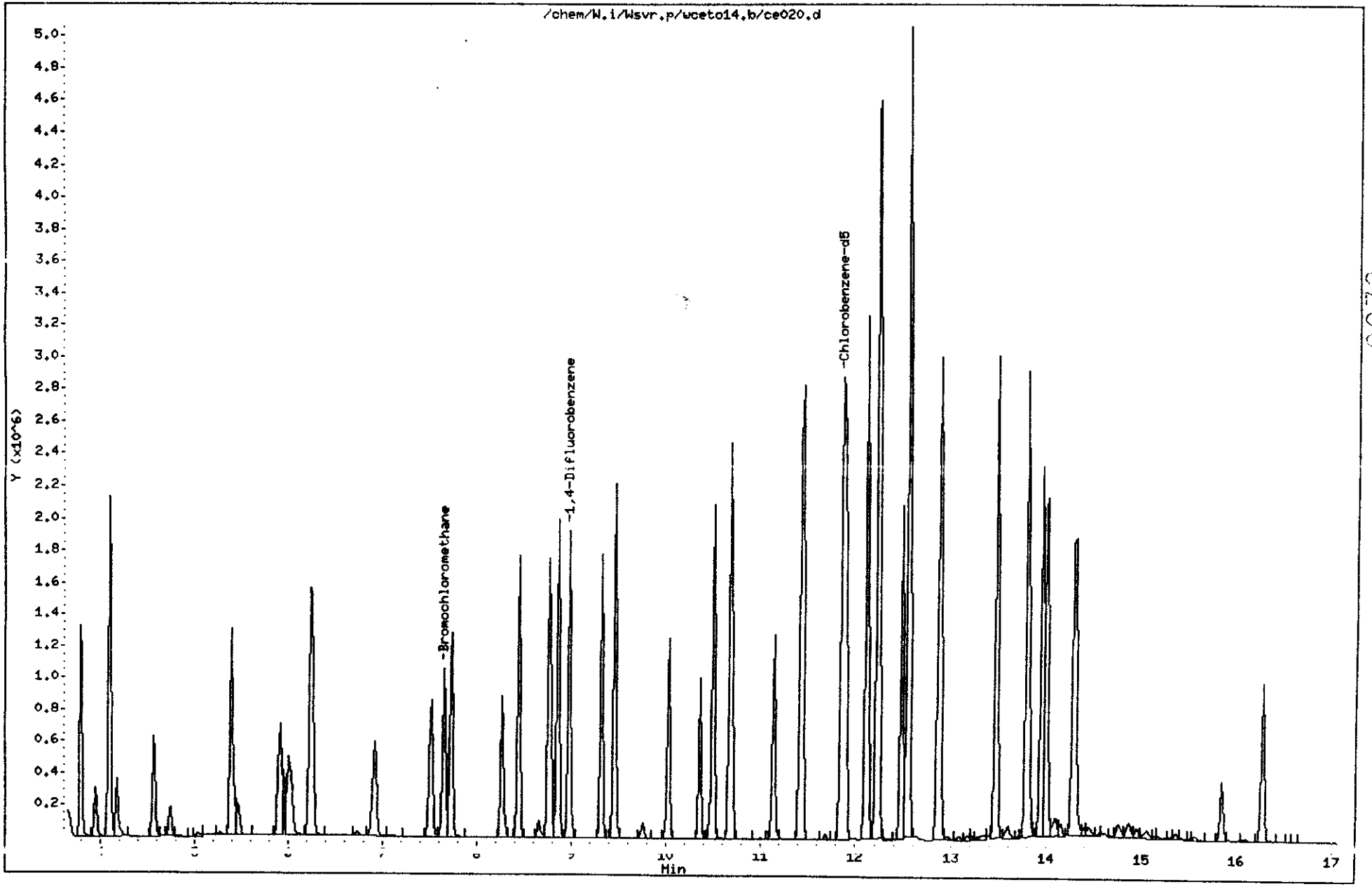
Compound: Trichlorofluoromethane
CAS Number: 75-69-4





Data File: /chem/W.i/Wsvr.p/wceto14.b/ce020.d
Date : 18-DEC-2000 10:04
Client ID: ASTD020
Sample Info: ASTD020;ASTD020
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i
Operator: GMM
Column diameter: 0.35



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AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wceto14.b/ce020.d
Lab Smp Id: ASTD020 Client Smp ID: ASTD020
Inj Date : 18-DEC-2000 10:04
Operator : GMM Inst ID: W.i
Smp Info : ASTD020;ASTD020
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wceto14.b/ato14.m
Meth Date : 26-Dec-2000 14:39 mim Quant Type: ISTD
Cal Date : 18-DEC-2000 10:04 Cal File: ce020.d
Als bottle: 4 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1 Dichlorodifluoromethane	85	3.787	3.797	(0.496)	1389222	20.0000	20
2 Chloromethane	50	3.945	3.955	(0.517)	349656	20.0000	20
3 Dichlorotetrafluoroethane	85	4.090	4.085	(0.536)	1355610	20.0000	20
4 Vinyl Chloride	62	4.176	4.171	(0.547)	390945	20.0000	20
5 Bromomethane	94	4.551	4.546	(0.596)	478742	20.0000	20
6 Chloroethane	64	4.738	4.719	(0.621)	226284	20.0000	20(M)
7 Trichlorofluoromethane	101	5.390	5.375	(0.706)	1364964	20.0000	20(M)
8 1,1-Dichloroethene	96	5.906	5.891	(0.773)	468570	20.0000	20(Q)
9 Methylene Chloride	49	5.997	5.982	(0.785)	516473	20.0000	20
10 Freon TF	101	6.225	6.210	(0.815)	1079421	20.0000	20
11 1,1-Dichloroethane	63	6.908	6.892	(0.905)	863067	20.0000	20
12 cis-1,2-Dichloroethene	61	7.515	7.484	(0.984)	711115	20.0000	20
* 13 Bromochloromethane	128	7.636	7.621	(1.000)	334158	10.0000	(Q)
14 Chloroform	83	7.727	7.697	(1.012)	1212958	20.0000	20

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
	15 1,2-Dichloroethane	62	8.258	8.243	(1.081)	828558	20.0000	20
	16 1,1,1-Trichloroethane	97	8.440	8.425	(1.105)	1169805	20.0000	20
	17 Benzene	78	8.759	8.744	(0.976)	1616642	20.0000	20
	18 Carbon Tetrachloride	117	8.850	8.835	(0.986)	1199363	20.0000	20
*	19 1,4-Difluorobenzene	114	8.972	8.956	(1.000)	1572787	10.0000	
	20 1,2-Dichloropropane	63	9.305	9.290	(1.037)	609216	20.0000	20
	21 Trichloroethene	95	9.457	9.442	(1.054)	783389	20.0000	20
	22 cis-1,3-Dichloropropene	75	10.019	10.003	(1.117)	805179	20.0000	20
	23 trans-1,3-Dichloropropene	75	10.353	10.337	(1.154)	594333	20.0000	20
	24 1,1,2-Trichloroethane	83	10.489	10.474	(1.169)	647665	20.0000	20
	25 Toluene	92	10.671	10.656	(0.900)	1259073	20.0000	20
	26 1,2-Dibromoethane	107	11.142	11.126	(0.940)	1063489	20.0000	20
	27 Tetrachloroethene	166	11.430	11.415	(0.964)	973376	20.0000	20
*	28 Chlorobenzene-d5	117	11.855	11.840	(1.000)	1742488	10.0000	
	29 Chlorobenzene	112	11.885	11.870	(1.003)	1609737	20.0000	20
	30 Ethylbenzene	91	12.113	12.098	(1.022)	2853102	20.0000	20
	31 Xylene (m,p)	106	12.234	12.219	(1.032)	2077984	40.0000	40
	32 Styrene	104	12.477	12.462	(1.052)	1256259	20.0000	20
M	33 Xylene (total)	106				3098165	20.0000	60
	34 1,1,2,2-Tetrachloroethane	83	12.538	12.523	(1.058)	1598540	20.0000	20
	35 Xylene (o)	106	12.553	12.538	(1.059)	1020181	20.0000	20
	36 1,3,5-Trimethylbenzene	105	13.479	13.463	(1.137)	2166747	20.0000	20
	37 1,2,4-Trimethylbenzene	105	13.797	13.782	(1.164)	2031303	20.0000	20
	38 1,3-Dichlorobenzene	146	13.949	13.934	(1.177)	1385643	20.0000	20
	39 1,4-Dichlorobenzene	146	14.010	13.995	(1.182)	1410949	20.0000	20
	40 1,2-Dichlorobenzene	146	14.298	14.283	(1.206)	1148429	20.0000	20
	41 1,2,4-Trichlorobenzene	180	15.846	15.846	(1.337)	153786	20.0000	20
	42 Hexachlorobutadiene	225	16.271	16.271	(1.373)	225050	20.0000	20

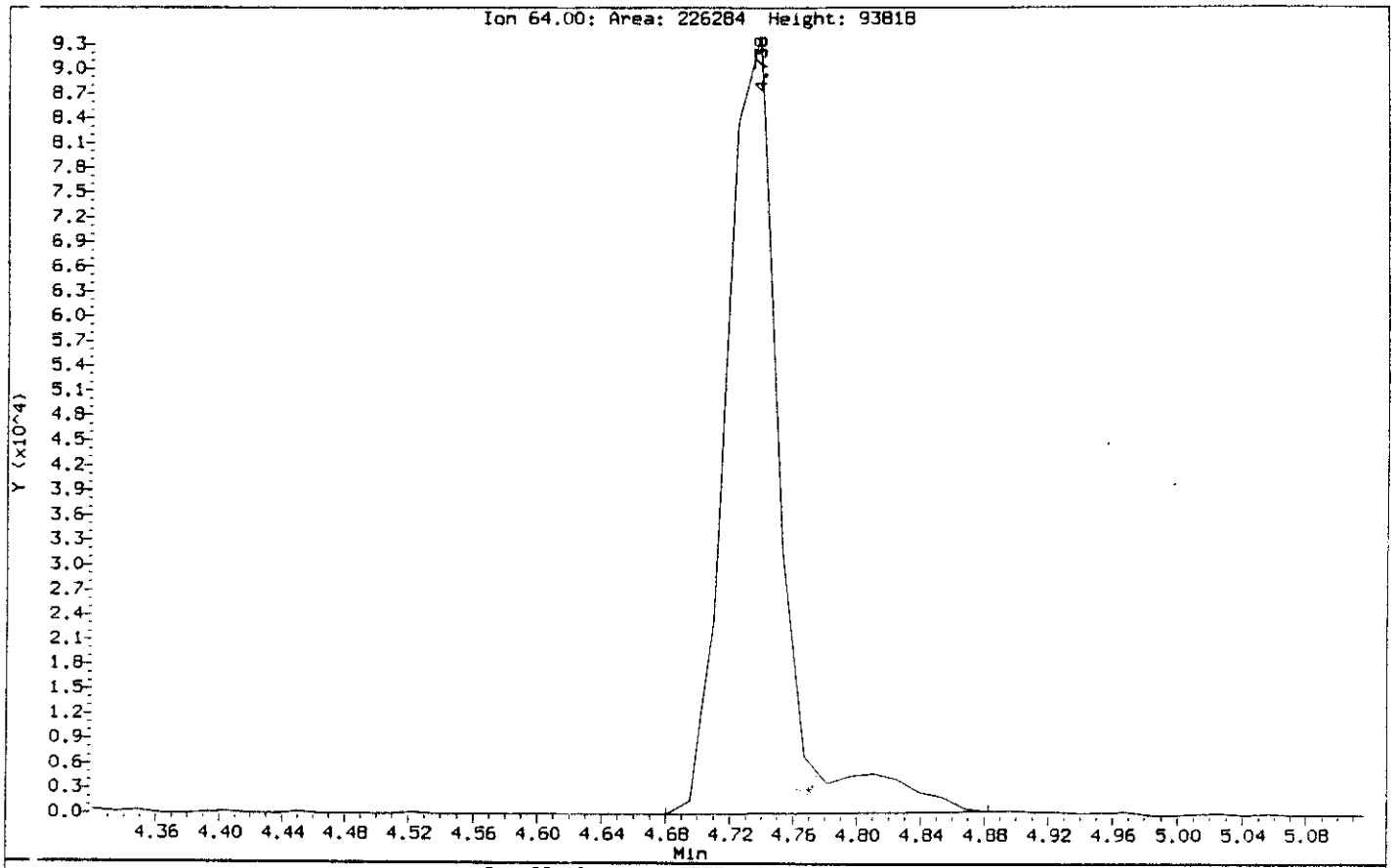
QC Flag Legend

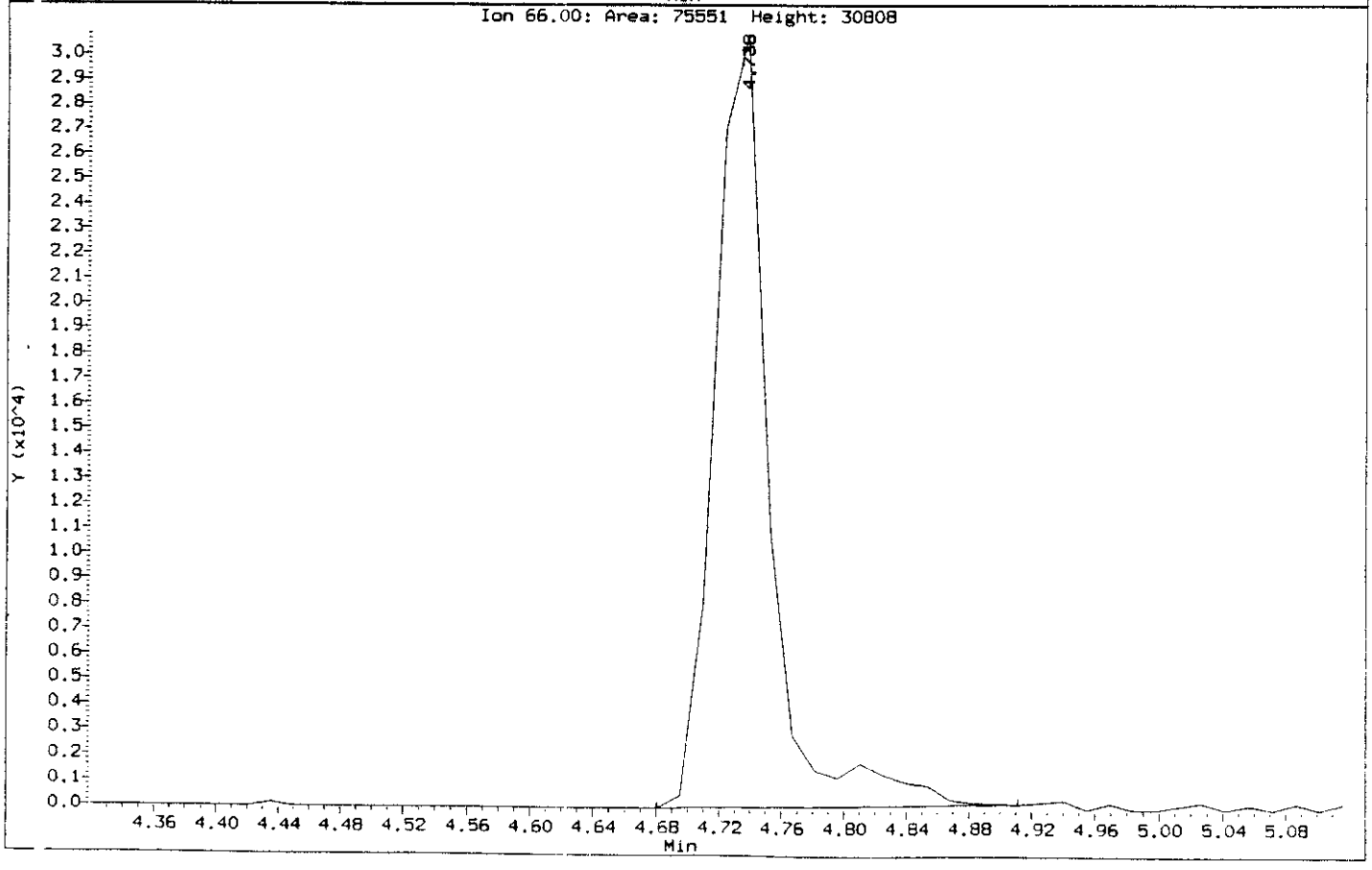
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

MWM 12/26/00

Data File: /chem/W.i/Wsvr.p/wceto14.b/ce020.d
Injection Date: 18-DEC-2000 10:04
Instrument: W.i
Client Sample ID: ASTD020

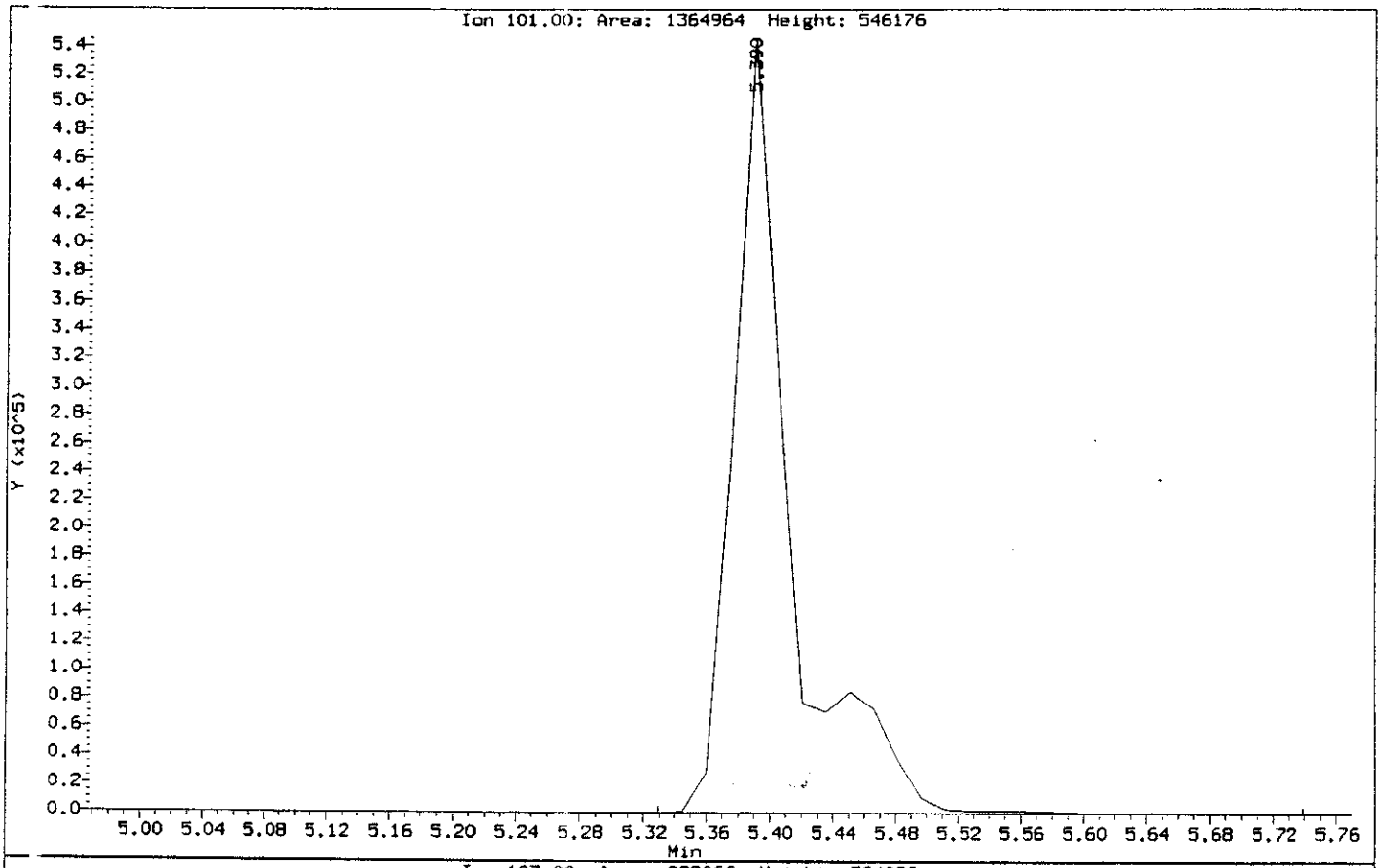
Compound: Chloroethane
CAS Number: 75-00-3

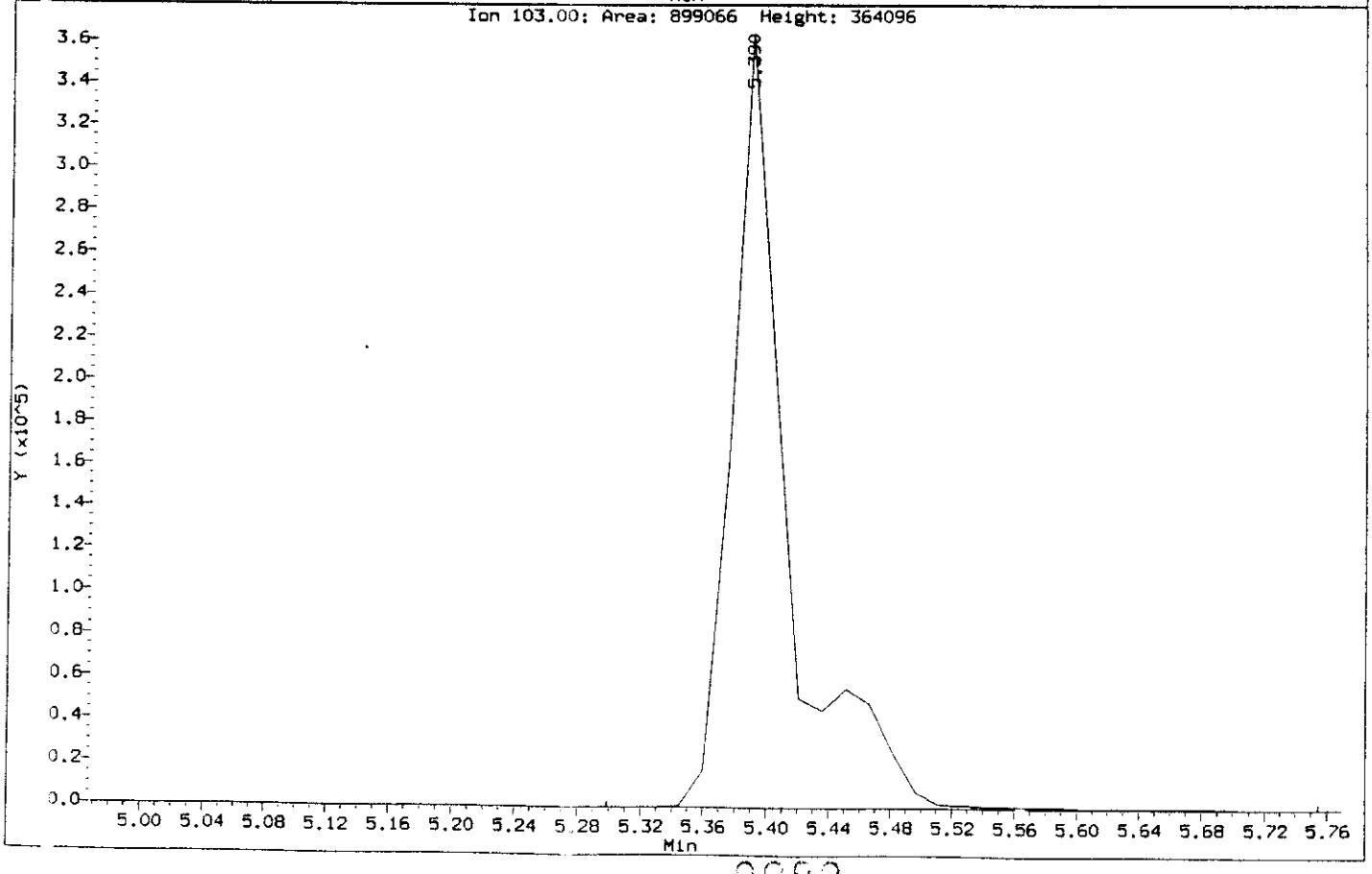




Data File: /chem/W.i/Wsvr.p/wceto14.b/ce020.d
Injection Date: 18-DEC-2000 10:04
Instrument: W.i
Client Sample ID: ASTD020

Compound: Trichlorofluoromethane
CAS Number: 75-69-4

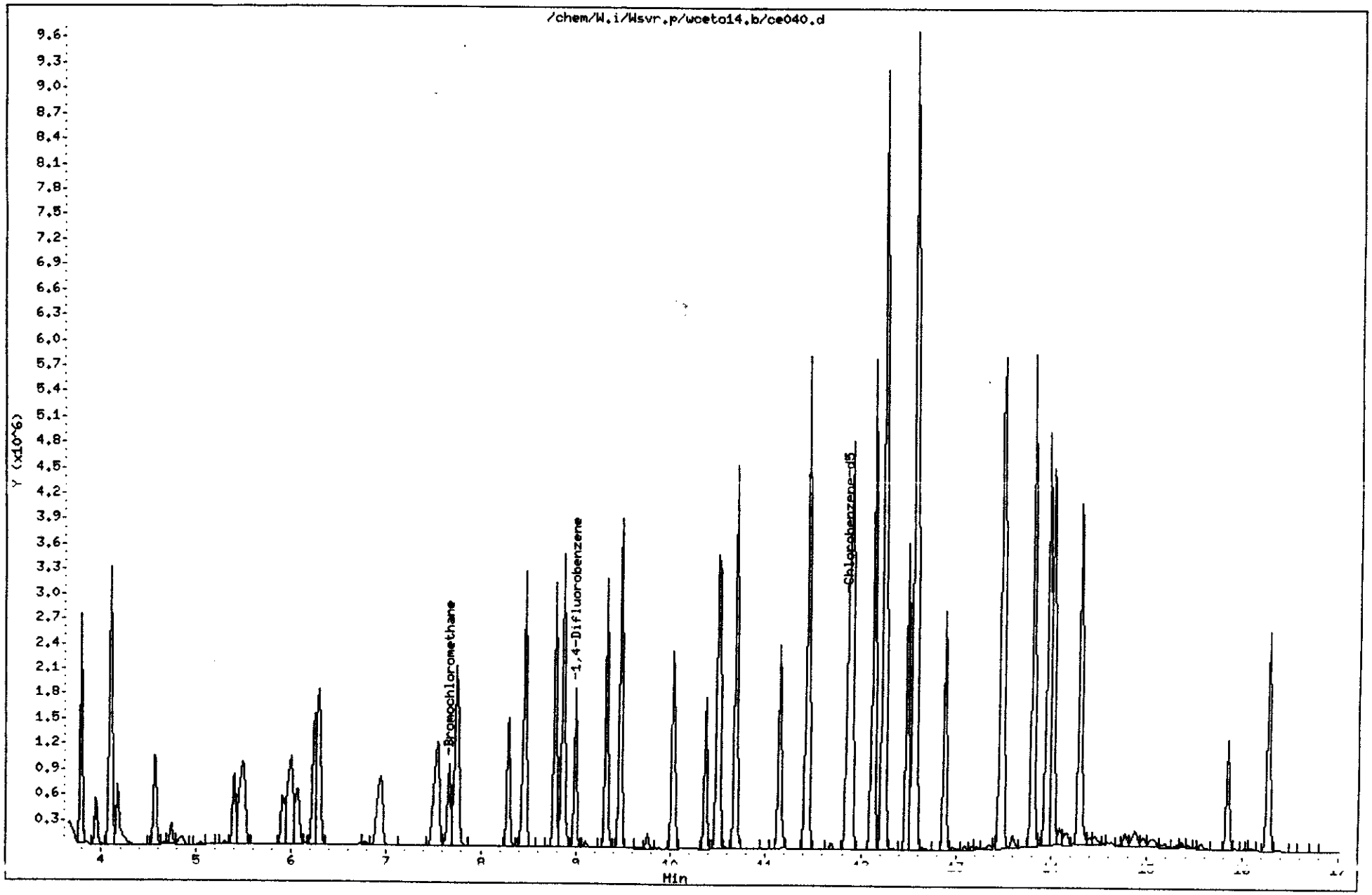




Data File: /chem/W.i/Wsvr.p/woeto14.b/ce040.d
Date : 18-DEC-2000 10:38
Client ID: ASTD040
Sample Info: ASTD040;ASTD040
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i

Operator: GHH
Column diameter: 0.35



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STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wceto14.b/ce040.d
Lab Smp Id: ASTD040 Client Smp ID: ASTD040
Inj Date : 18-DEC-2000 10:38
Operator : GMM Inst ID: W.i
Smp Info : ASTD040;ASTD040
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wceto14.b/ato14.m
Meth Date : 26-Dec-2000 14:39 mim Quant Type: ISTD
Cal Date : 18-DEC-2000 10:38 Cal File: ce040.d
Als bottle: 5 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
1 Dichlorodifluoromethane	85	3.782	3.797	(0.493)	2465306	38.0000	37
2 Chloromethane	50	3.940	3.955	(0.514)	669031	40.0000	39
3 Dichlorotetrafluoroethane	85	4.099	4.085	(0.535)	2589407	40.0000	39(M)
4 Vinyl Chloride	62	4.171	4.171	(0.544)	740044	40.0000	39
5 Bromomethane	94	4.560	4.546	(0.595)	959527	40.0000	40(AM)
6 Chloroethane	64	4.748	4.719	(0.619)	481500	40.0000	41(AM)
7 Trichlorofluoromethane	101	5.482	5.375	(0.715)	2557931	40.0000	39(M)
8 1,1-Dichloroethene	96	5.967	5.891	(0.778)	909769	40.0000	40(M)
9 Methylene Chloride	49	6.058	5.982	(0.790)	1007467	40.0000	40
10 Freon TF	101	6.286	6.210	(0.820)	2068956	40.0000	39(M)
11 1,1-Dichloroethane	63	6.938	6.892	(0.905)	1665783	40.0000	40
12 cis-1,2-Dichloroethene	61	7.530	7.484	(0.982)	1255985	40.0000	38
* 13 Bromochloromethane	128	7.667	7.621	(1.000)	330403	10.0000	
14 Chloroform	83	7.743	7.697	(1.010)	2169595	40.0000	38

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
	15 1,2-Dichloroethane	62	8.289	8.243	(1.081)	1552900	40.0000	39
	16 1,1,1-Trichloroethane	97	8.456	8.425	(1.103)	2126643	40.0000	38
	17 Benzene	78	8.775	8.744	(0.976)	2907385	40.0000	39
	18 Carbon Tetrachloride	117	8.866	8.835	(0.986)	2179159	40.0000	39
*	19 1,4-Difluorobenzene	114	8.987	8.956	(1.000)	1513848	10.0000	
	20 1,2-Dichloropropane	63	9.321	9.290	(1.037)	1094847	40.0000	39
	21 Trichloroethene	95	9.473	9.442	(1.054)	1405450	40.0000	38
	22 cis-1,3-Dichloropropene	75	10.019	10.003	(1.115)	1593876	40.0000	40(A)
	23 trans-1,3-Dichloropropene	75	10.368	10.337	(1.154)	1175811	40.0000	40(A)
	24 1,1,2-Trichloroethane	83	10.490	10.474	(1.167)	1166043	40.0000	39
	25 Toluene	92	10.687	10.656	(0.901)	2340569	40.0000	40
	26 1,2-Dibromoethane	107	11.142	11.126	(0.940)	2004367	40.0000	40
	27 Tetrachloroethene	166	11.430	11.415	(0.964)	1799337	40.0000	39
*	28 Chlorobenzene-d5	117	11.855	11.840	(1.000)	1652791	10.0000	
	29 Chlorobenzene	112	11.886	11.870	(1.003)	2941041	40.0000	39
	30 Ethylbenzene	91	12.113	12.098	(1.022)	5209340	40.0000	39
	31 Xylene (m,p)	106	12.235	12.219	(1.032)	3998091	80.0000	80(A)
	32 Styrene	104	12.478	12.462	(1.052)	2266830	40.0000	39
M	33 Xylene (total)	106				5962135	40.0000	120
	34 1,1,2,2-Tetrachloroethane	83	12.553	12.523	(1.059)	2982197	40.0000	40
	35 Xylene (o)	106	12.553	12.538	(1.059)	1964044	40.0000	40(A)
	36 1,3,5-Trimethylbenzene	105	13.479	13.463	(1.137)	4187308	40.0000	40(A)
	37 1,2,4-Trimethylbenzene	105	13.798	13.782	(1.164)	4028961	40.0000	41(A)
	38 1,3-Dichlorobenzene	146	13.950	13.934	(1.177)	2866831	40.0000	42(A)
	39 1,4-Dichlorobenzene	146	14.010	13.995	(1.182)	2864819	40.0000	41(A)
	40 1,2-Dichlorobenzene	146	14.299	14.283	(1.206)	2420280	40.0000	42(A)
	41 1,2,4-Trichlorobenzene	180	15.847	15.846	(1.337)	533290	40.0000	52(A)
	42 Hexachlorobutadiene	225	16.272	16.271	(1.373)	613645	40.0000	47(A)

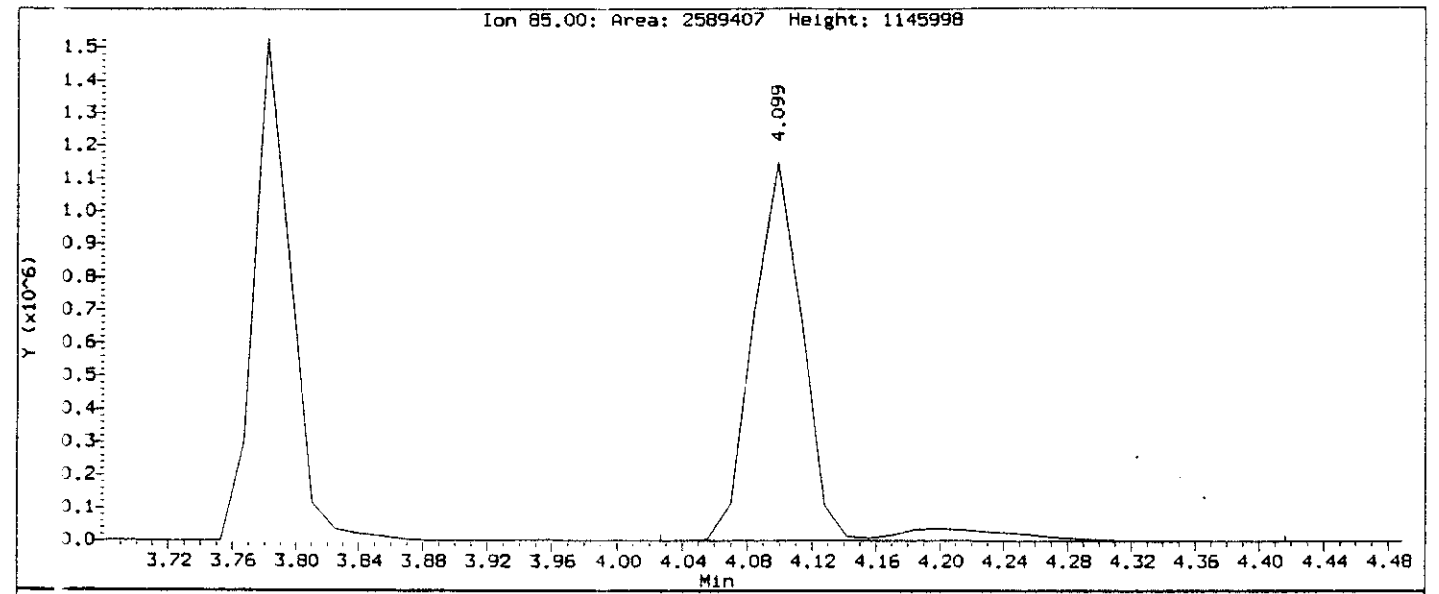
QC Flag Legend

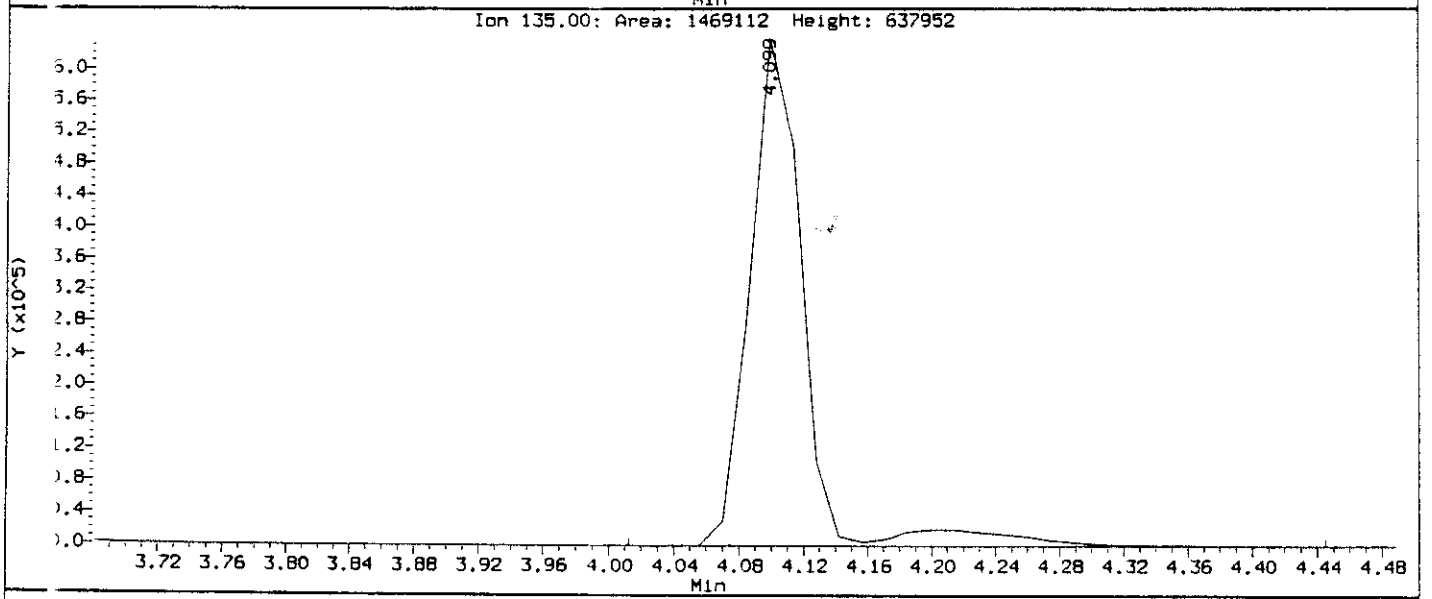
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

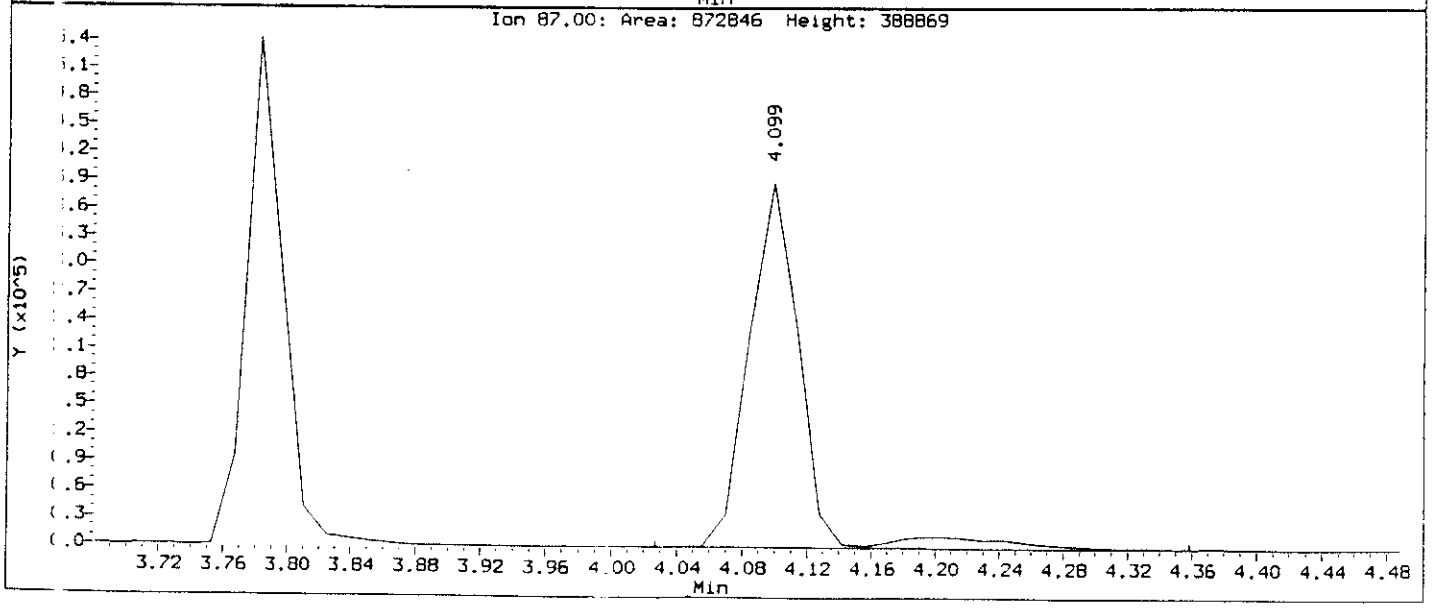
mrm 12/26/00

Data File: /chem/W.i/Wsvr.p/wceto14.b/ce040.d
Injection Date: 18-DEC-2000 10:38
Instrument: W.i
Client Sample ID: ASTD040

Compound: Dichlorotetrafluoroethane
CAS Number: 76-14-2

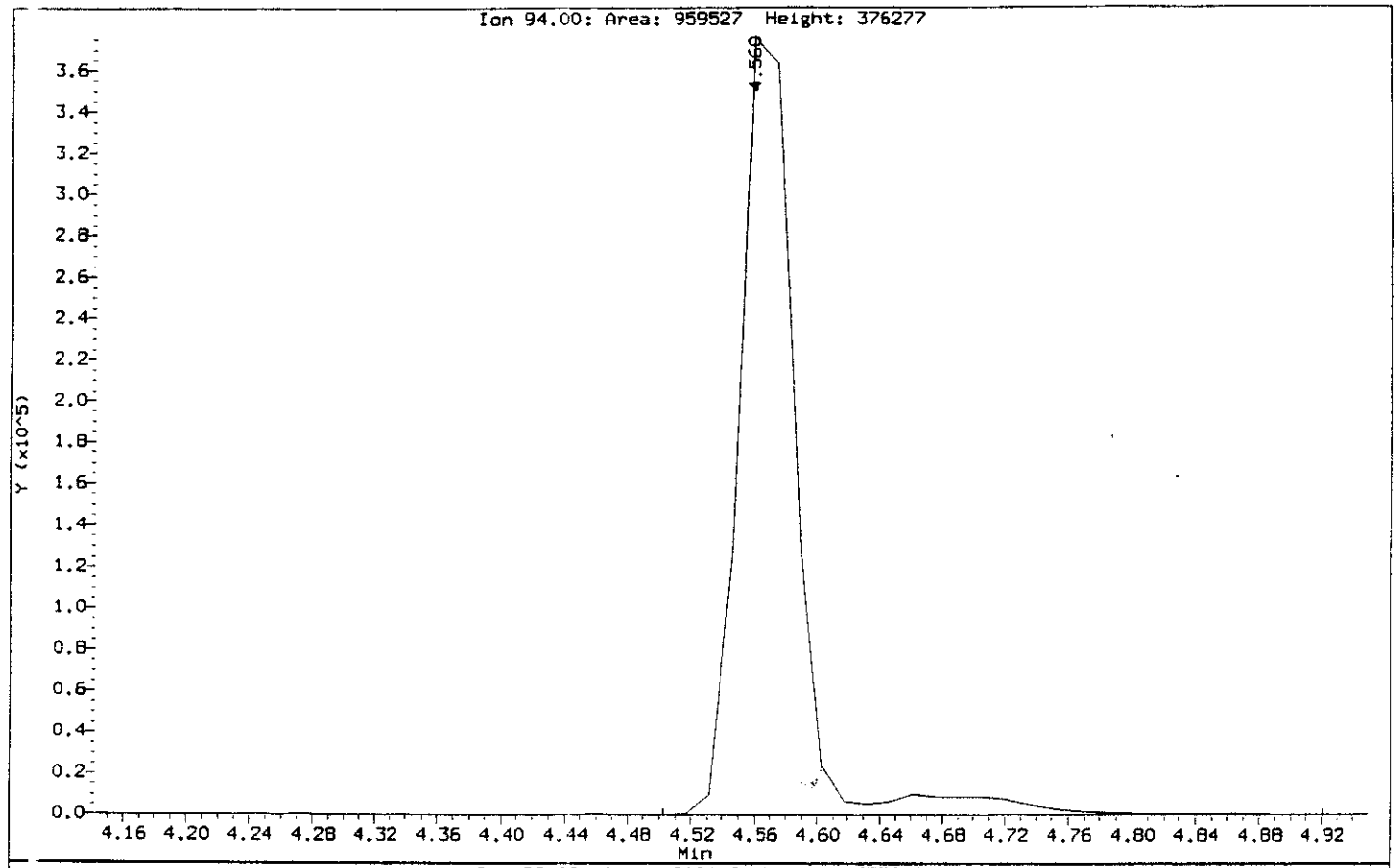


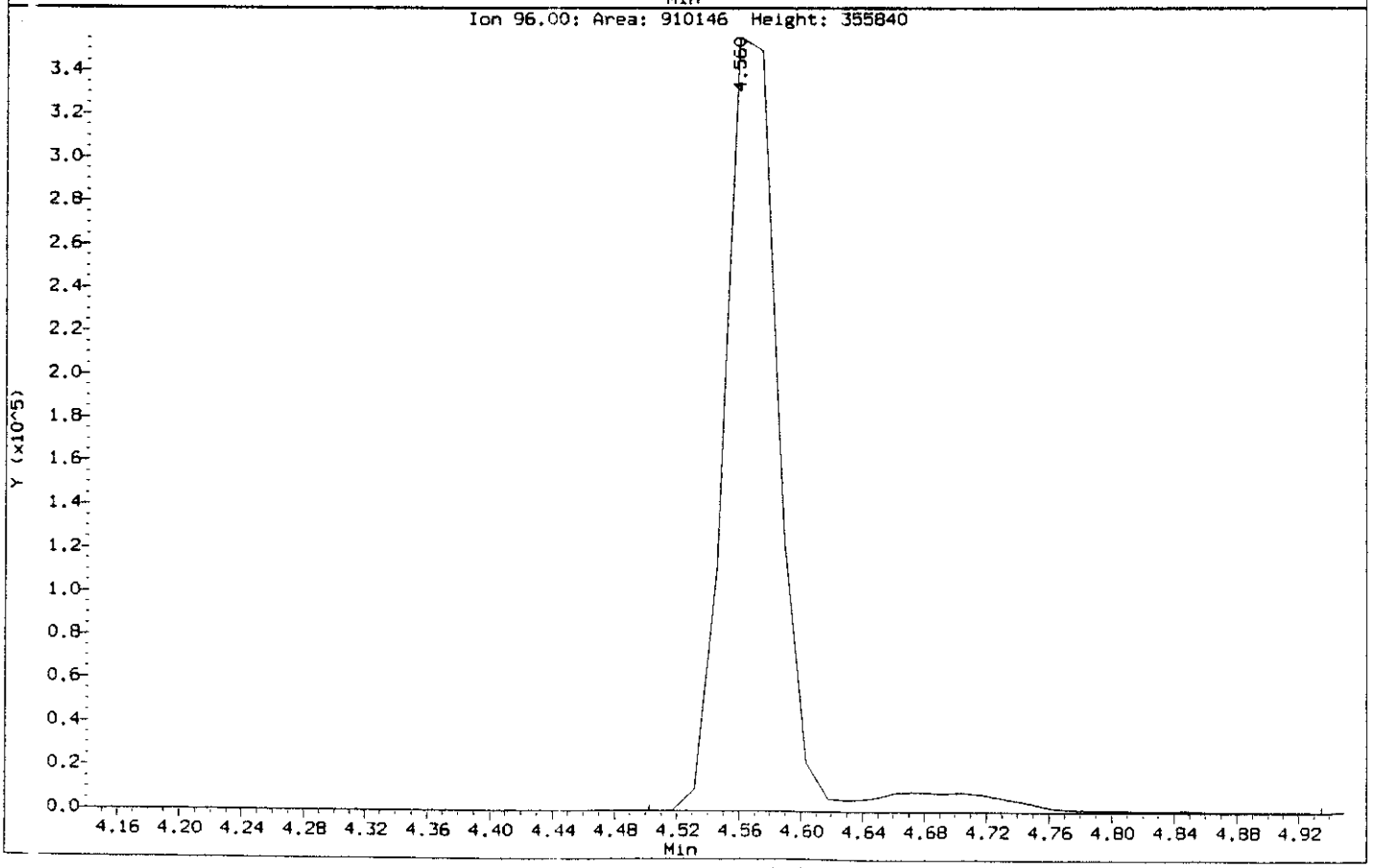




Data File: /chem/W.i/Wsvr.p/wceto14.b/ce040.d
Injection Date: 18-DEC-2000 10:38
Instrument: W.i
Client Sample ID: ASTD040

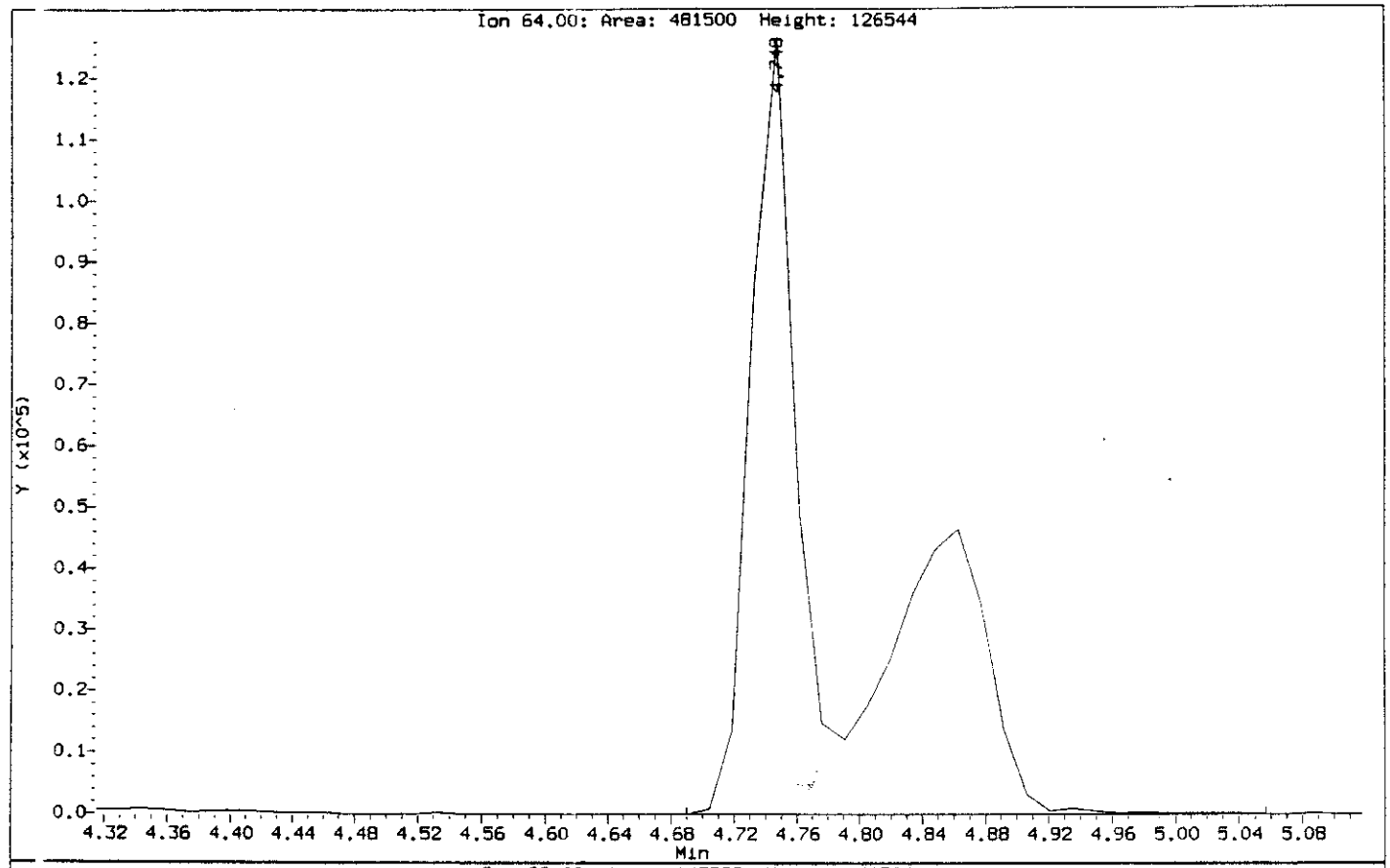
Compound: Bromomethane
CAS Number: 74-83-9

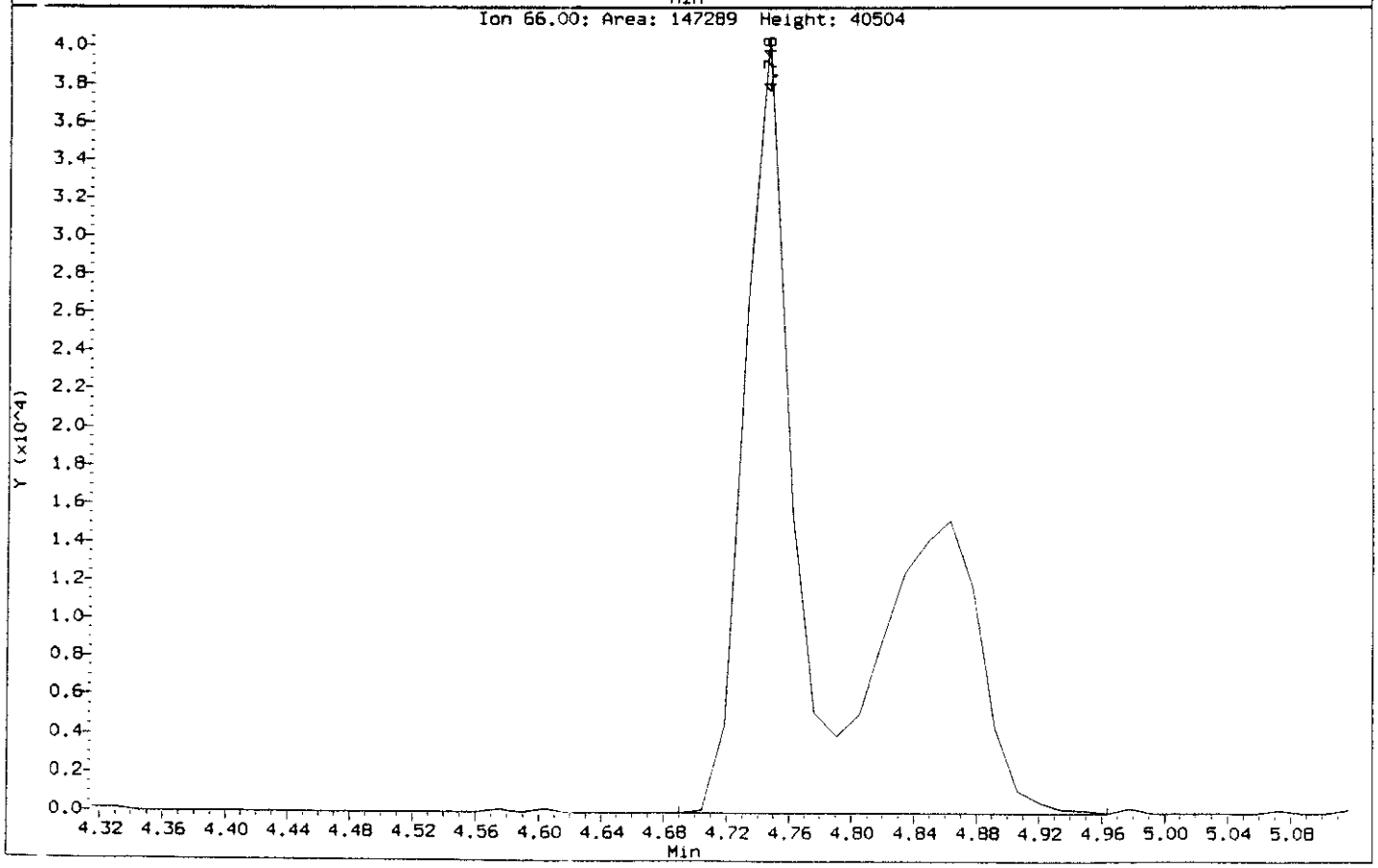




Da a File: /chem/W.i/Wsvr.p/wceto14.b/ce040.d
In ection Date: 18-DEC-2000 10:38
In trument: W.i
Cl ent Sample ID: ASTD040

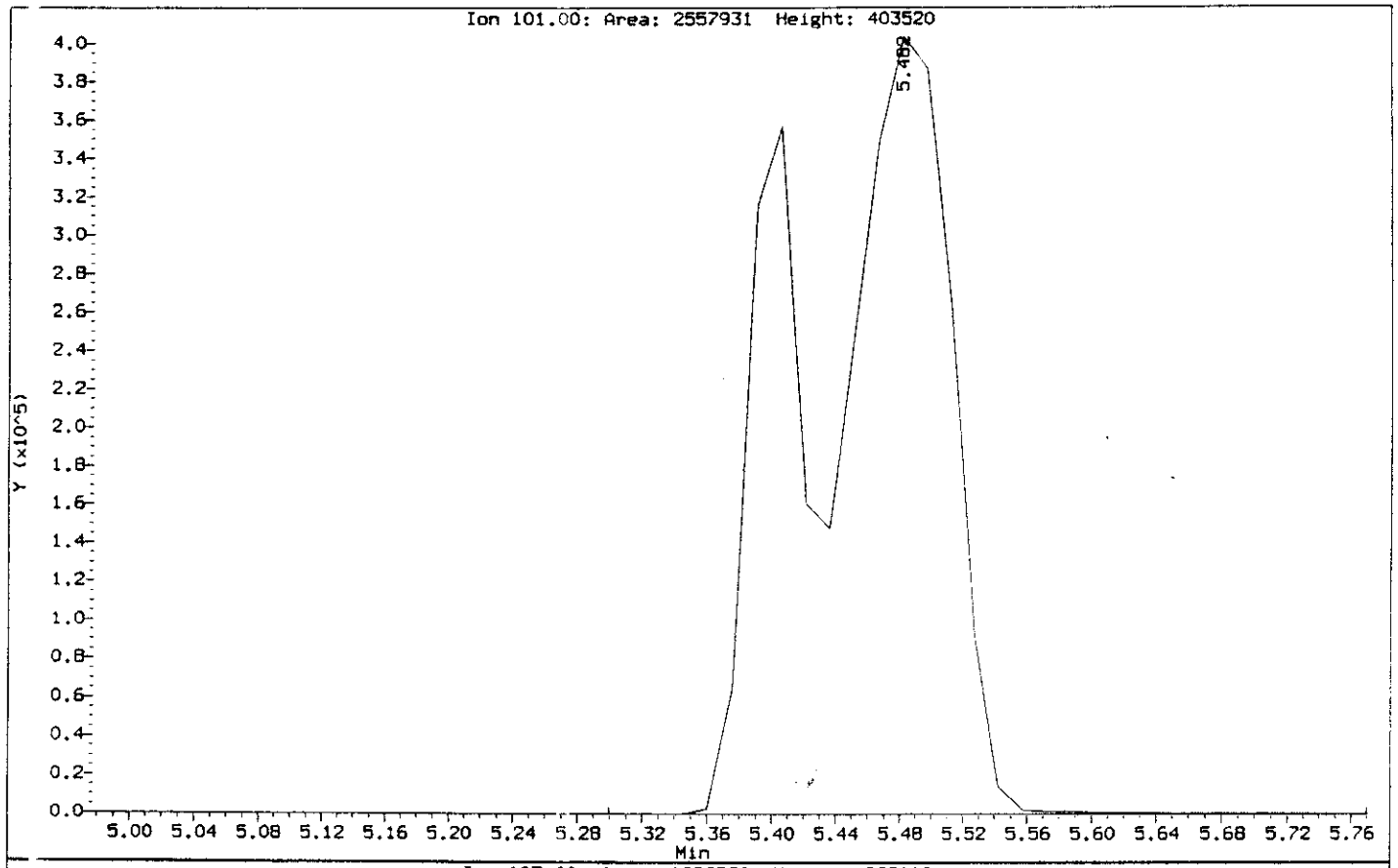
Co pound: Chloroethane
CA Number: 75-00-3

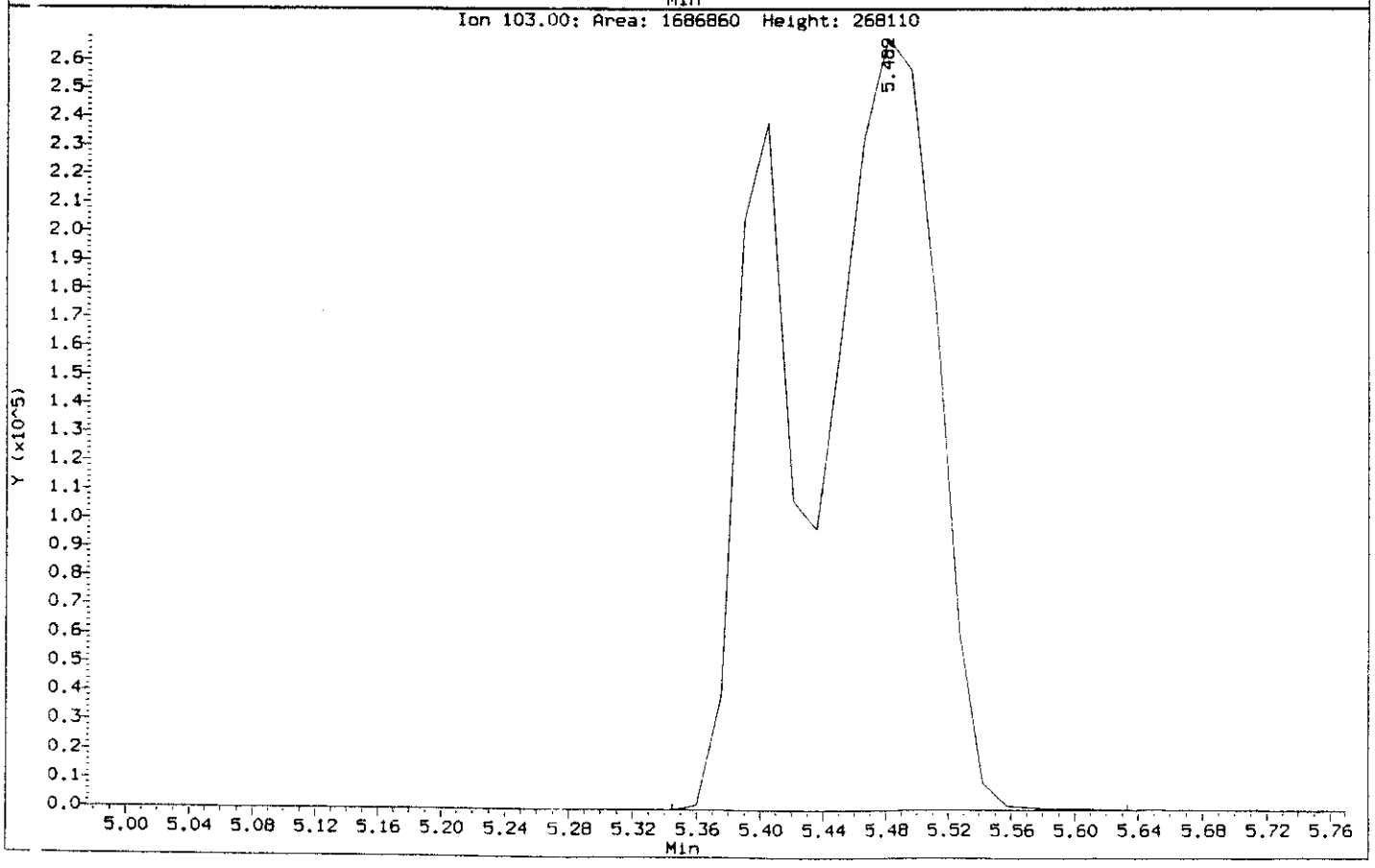




Data File: /chem/W.i/Wsvr.p/wceto14.b/ce040.d
Injection Date: 18-DEC-2000 10:38
Instrument: W.i
Client Sample ID: ASTD040

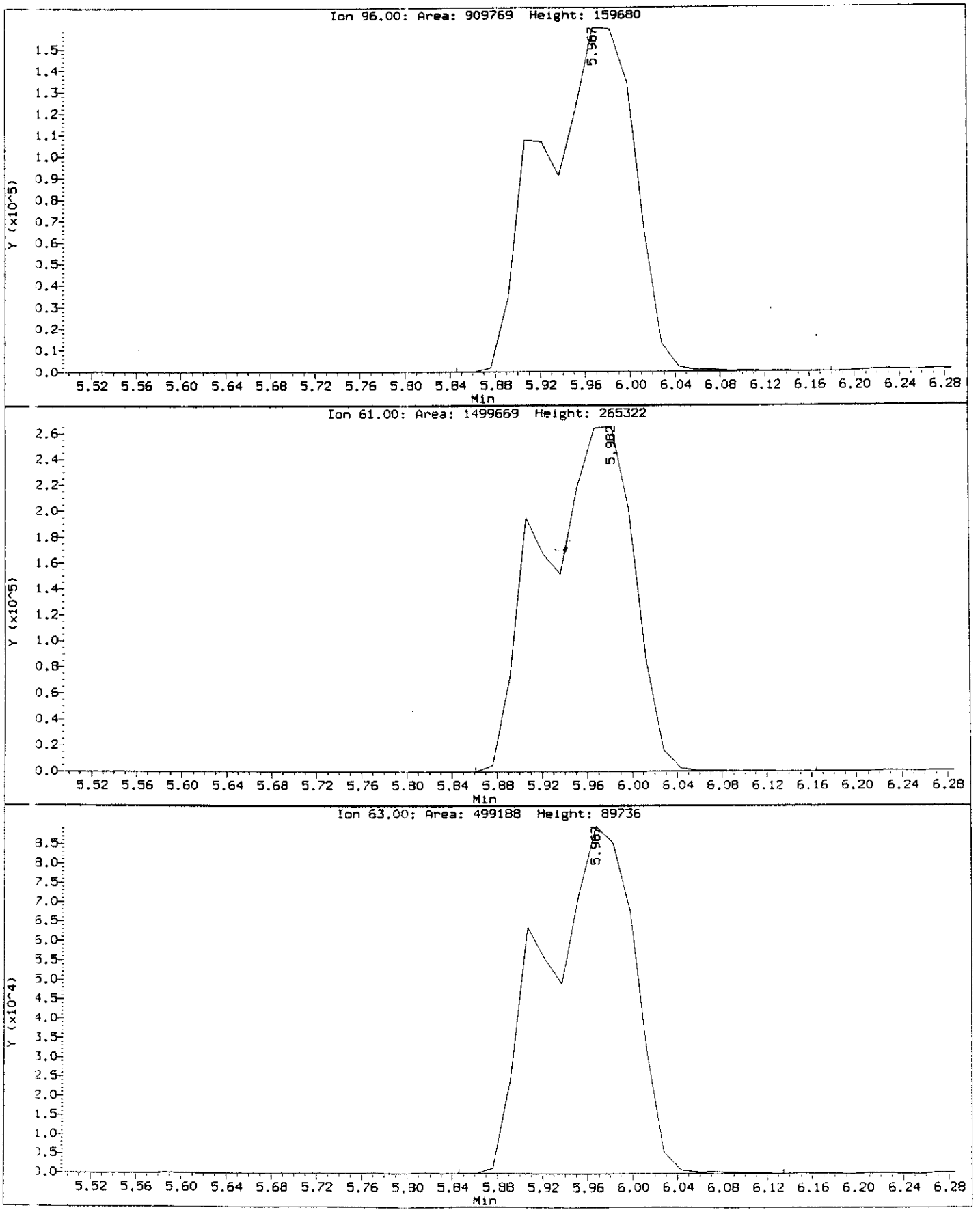
Compound: Trichlorofluoromethane
CAS Number: 75-69-4





Data File: /chem/W.i/Wsvr.p/wceto14.b/ce040.d
Injection Date: 18-DEC-2000 10:38
Instrument: W.i
Client Sample ID: ASTD040

Compound: 1,1-Dichloroethene
CAS Number: 75-35-4



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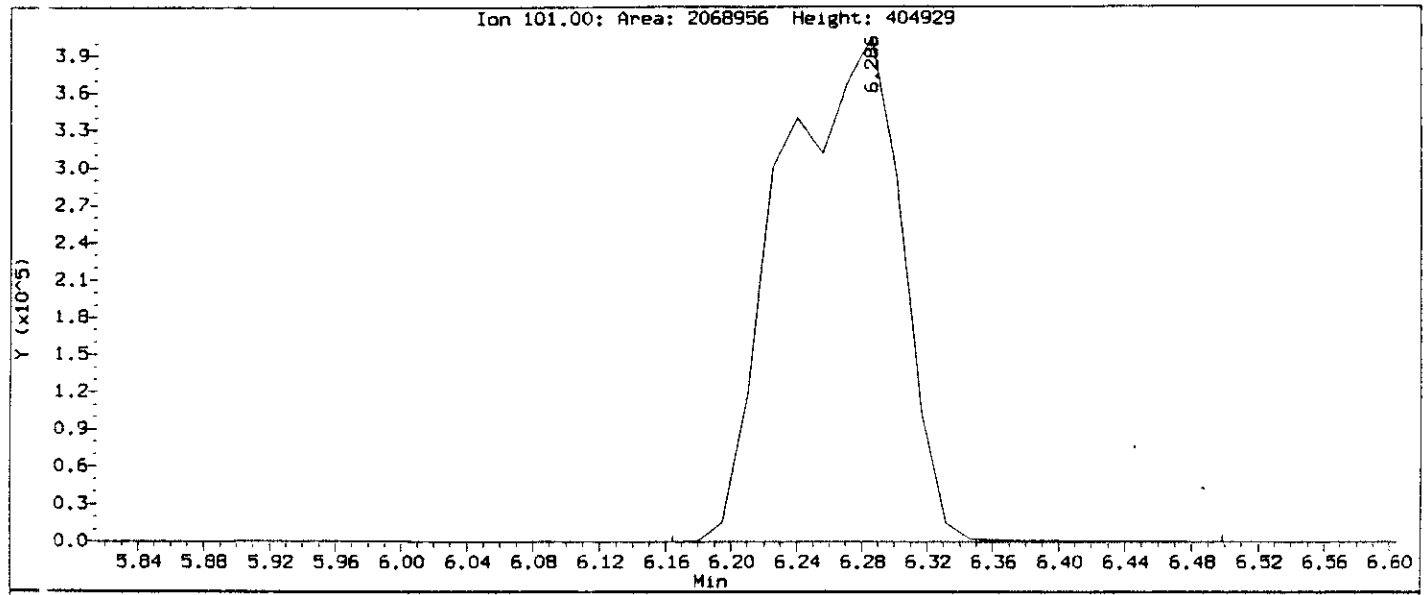
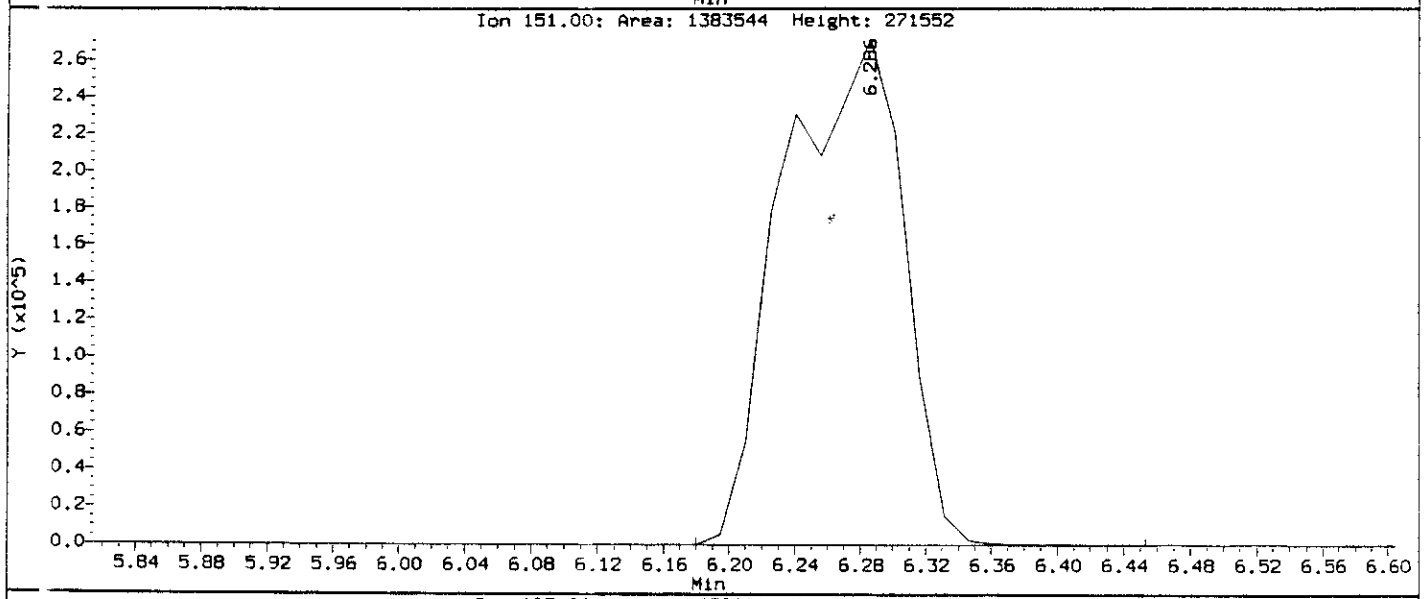
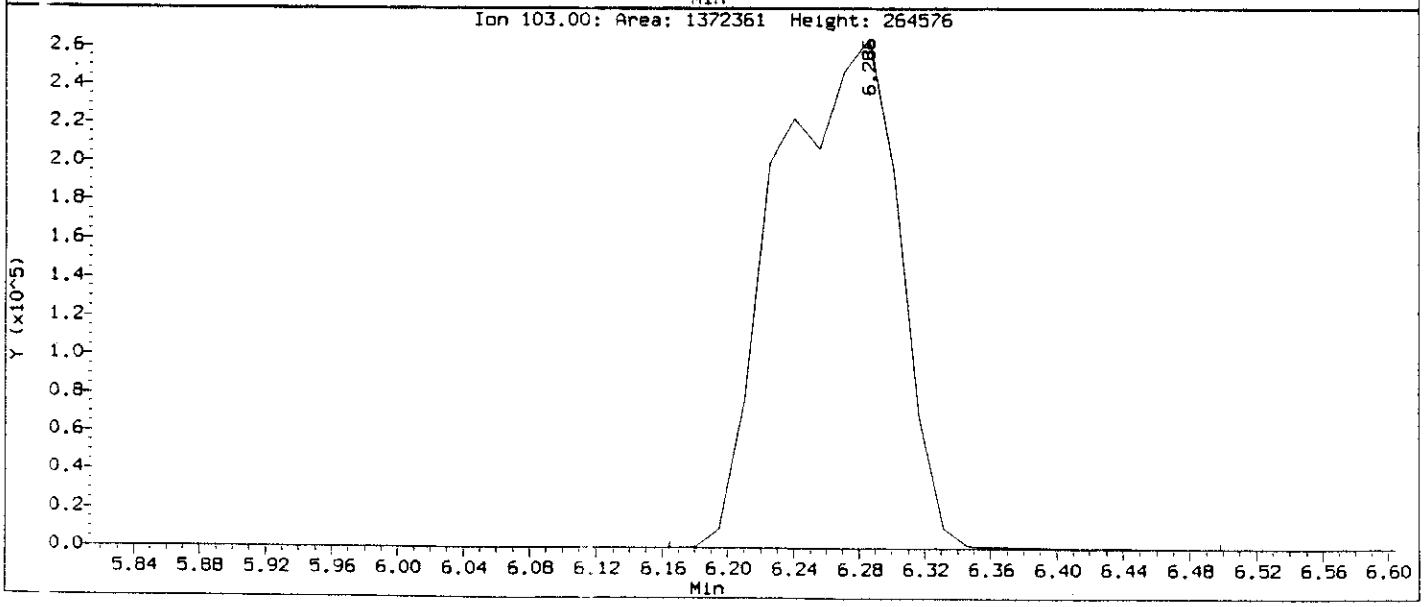
In ection Date: 18-DEC-2000 10:38
In trument: W.i
Cl ent Sample ID: ASTD040

Co pound: Freon TF
CA Number: 76-13-1







STL Burlington

INITIAL CALIBRATION DATA

Start Cal Date : 18-DEC-2000 10:04
End Cal Date : 18-DEC-2000 13:44
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/W.i/Wsvr.p/wceto14.b/ato14.m
Cal Date : 26-Dec-2000 14:40 mim
Curve Type : Average

Calibration File Names:
Level 1: /chem/W.i/Wsvr.p/wceto14.b/ce0005i2.d
Level 2: /chem/W.i/Wsvr.p/wceto14.b/ce005.d
Level 3: /chem/W.i/Wsvr.p/wceto14.b/ce010i2.d
Level 4: /chem/W.i/Wsvr.p/wceto14.b/ce020.d
Level 5: /chem/W.i/Wsvr.p/wceto14.b/ce040.d

Compound	0.50000 Level 1	5.000 Level 2	10.000 Level 3	20.000 Level 4	40.000 Level 5	RRF	% RSD
1 Dichlorodifluoromethane	2.82890	2.55636	2.33420	2.07869	1.96356	2.35234	14.956
2 Chloromethane	0.67602	0.64687	0.61417	0.52319	0.50622	0.59330	12.682
3 Dichlorotetrafluoroethane	2.96272	2.57613	2.41371	2.02840	1.95928	2.38805	17.259
4 Vinyl Chloride	0.68450	0.69216	0.67015	0.58497	0.55996	0.63835	9.603
5 Bromomethane	0.93001	0.92929	0.81287	0.71634	0.72603	0.82291	12.691
6 Chloroethane	0.42855	0.43751	0.39748	0.33859	0.36433	0.39329	10.672
7 Trichlorofluoromethane	2.51971	2.47777	2.22203	2.04239	1.93546	2.23947	11.534
8 1,1-Dichloroethene	0.92542	0.87980	0.79211	0.70112	0.68838	0.79737	13.208
9 Methylene Chloride	1.44608	0.96687	0.90655	0.77280	0.76230	0.97092	28.798
10 Freon TF	2.13207	1.95915	1.82171	1.61514	1.56548	1.81871	12.997
11 1,1-Dichloroethane	1.70406	1.69577	1.49474	1.29141	1.26042	1.48928	14.257
12 cis-1,2-Dichloroethene	1.19167	1.24773	1.10154	1.06404	0.95034	1.11106	10.390
14 Chloroform	2.26467	2.16705	1.95206	1.81495	1.64163	1.96807	12.900
15 1,2-Dichloroethane	1.48176	1.42676	1.28600	1.23977	1.17500	1.32186	9.729
16 1,1,1-Trichloroethane	2.10013	2.09067	1.80070	1.75038	1.60913	1.87020	11.617
17 Benzene	0.69814	0.61048	0.55149	0.51394	0.48013	0.57084	15.074
18 Carbon Tetrachloride	0.49086	0.44478	0.42748	0.38129	0.35987	0.42086	12.348
20 1,2-Dichloropropane	0.25479	0.23097	0.20962	0.19367	0.18081	0.21397	13.797
21 Trichloroethene	0.33068	0.30142	0.27349	0.24904	0.23210	0.27735	14.294
22 cis-1,3-Dichloropropene	0.24595	0.25346	0.25751	0.25597	0.26322	0.25522	2.469
23 trans-1,3-Dichloropropene	0.17248	0.18226	0.16648	0.18894	0.19418	0.18087	6.314
24 1,1,2-Trichloroethane	0.26384	0.24834	0.22719	0.20590	0.19256	0.22757	12.891
25 Toluene	0.42147	0.44197	0.40421	0.36129	0.35403	0.39660	9.597
26 1,2-Dibromoethane	0.34854	0.34990	0.33610	0.30516	0.30318	0.32857	6.978
27 Tetrachloroethene	0.35849	0.34167	0.30877	0.27931	0.27217	0.31208	12.105
29 Chlorobenzene	0.66041	0.56197	0.52136	0.46191	0.44486	0.53010	16.334

STL Burlington

INITIAL CALIBRATION DATA

Start Cal Date : 18-DEC-2000 10:04
End Cal Date : 18-DEC-2000 13:44
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/W.i/Wsvr.p/wceto14.b/ato14.m
Cal Date : 26-Dec-2000 14:40 mim
Curve Type : Average

	Compound	0.50000 Level 1	5.000 Level 2	10.000 Level 3	20.000 Level 4	40.000 Level 5	RRF	% RSD	
	30 Ethylbenzene	1.00334	1.01464	0.93787	0.81869	0.78796	0.91250	11.447	
	31 Xylene (m,p)	0.36765	0.34686	0.33420	0.29813	0.30237	0.32984	8.965	
	32 Styrene	0.36313	0.24312	0.33430	0.36048	0.34288	0.32878	15.018	
M	33 Xylene (total)	1.09735	1.03106	0.99230	0.88901	0.90183	0.98231	8.947	
	34 1,1,2,2-Tetrachloroethane	0.66080	0.54170	0.51274	0.45869	0.45109	0.52500	16.143	
	35 Xylene (o)	0.36206	0.33733	0.32391	0.29274	0.29708	0.32262	8.928	
	36 1,3,5-Trimethylbenzene	0.68412	0.67375	0.66852	0.62174	0.63337	0.65630	4.136	
	37 1,2,4-Trimethylbenzene	0.64061	0.58943	0.60366	0.58287	0.60942	0.60520	3.714	
	38 1,3-Dichlorobenzene	0.47818	0.42455	0.39769	0.39760	0.43363	0.42633	7.771	
	39 1,4-Dichlorobenzene	0.55761	0.37402	0.40780	0.40487	0.43333	0.43553	16.397	
	40 1,2-Dichlorobenzene	0.39454	0.30579	0.31949	0.32954	0.36609	0.34309	10.617	
	41 1,2,4-Trichlorobenzene	0.04105	0.03426	0.03430	0.04413	0.08067	0.04688	41.312	<-
	42 Hexachlorobutadiene	0.11840	0.06655	0.06744	0.06458	0.09282	0.08196	28.590	

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81024

Instrument ID: W Calibration Date: 12/18/00 Time: 1344

Lab File ID: CE010I2 Init. Calib. Date(s): 12/18/00 12/18/00

Heated Purge: (Y/N) N Init. Calib. Times: 1004 1344

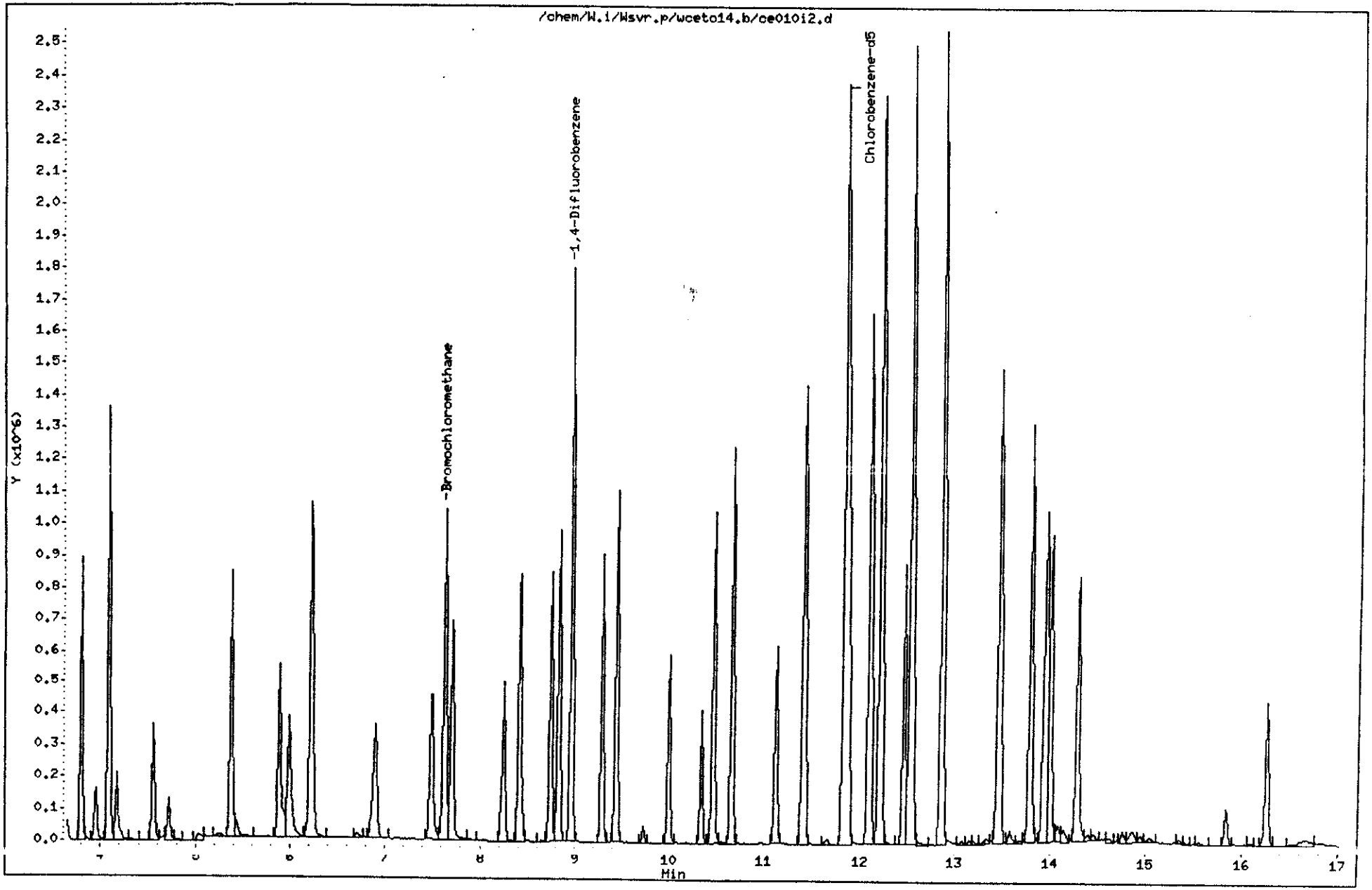
GC Column: DB-1 ID: 0.35 (mm)

COMPOUND	$\overline{RRF}$	RRF10	MIN RRF	%D	MAX %D
Chloromethane	0.593	0.614	0.1	3.5	30.0
Vinyl Chloride	0.638	0.670	0.01	5.0	30.0
Bromomethane	0.823	0.813	0.01	1.2	30.0
Chloroethane	0.393	0.397	0.01	1.0	30.0
Trichlorofluoromethane	2.239	2.222	0.01	0.8	30.0
Methylene Chloride	0.971	0.906	0.01	6.7	30.0
1,1-Dichloroethane	1.489	1.495	0.1	0.4	30.0
cis-1,2-Dichloroethene	1.111	1.102	0.01	0.8	30.0
Chloroform	1.968	1.952	0.01	0.8	30.0
1,1,1-Trichloroethane	1.870	1.801	0.01	3.7	30.0
Carbon Tetrachloride	0.421	0.427	0.01	1.4	30.0
Benzene	0.571	0.551	0.01	3.5	30.0
1,2-Dichloroethane	1.322	1.286	0.01	2.7	30.0
Trichloroethene	0.277	0.273	0.01	1.4	30.0
1,2-Dichloropropane	0.214	0.210	0.01	1.9	30.0
cis-1,3-Dichloropropene	0.255	0.258	0.01	1.2	30.0
Toluene	0.396	0.404	0.01	2.0	30.0
trans-1,3-Dichloropropene	0.181	0.166	0.01	8.3	30.0
1,1,2-Trichloroethane	0.227	0.227	0.01	0.0	30.0
Tetrachloroethene	0.312	0.309	0.01	1.0	30.0
Chlorobenzene	0.530	0.521	0.3	1.7	30.0
Ethylbenzene	0.913	0.938	0.01	2.7	30.0
Xylene (total)	0.982	0.992	0.01	1.0	30.0
Styrene	0.329	0.334	0.01	1.5	30.0
Xylene (m,p)	0.330	0.334	0.01	1.2	30.0
Xylene (o)	0.323	0.324	0.01	0.3	30.0
1,1,2,2-Tetrachloroethane	0.525	0.513	0.01	2.3	30.0
1,3-Dichlorobenzene	0.426	0.398	0.01	6.6	30.0
1,4-Dichlorobenzene	0.436	0.408	0.01	6.4	30.0
1,2-Dichlorobenzene	0.343	0.319	0.01	7.0	30.0

Data File: /chem/W.i/Wsvr.p/wceto14.b/ce010i2.d
Date : 18-DEC-2000 13:44
Client ID: ASTD010
Sample Info: ASTD010;ASTD010
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i

Operator: GMM
Column diameter: 0.35



0095

STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wceto14.b/ce010i2.d
Lab Smp Id: ASTD010 Client Smp ID: ASTD010
Inj Date : 18-DEC-2000 13:44
Operator : GMM Inst ID: W.i
Smp Info : ASTD010;ASTD010
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wceto14.b/ato14.m
Meth Date : 26-Dec-2000 14:40 mim Quant Type: ISTD
Cal Date : 18-DEC-2000 13:44 Cal File: ce010i2.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1 Dichlorodifluoromethane	85	3.797	3.797	(0.498)	783179	10.0000	9.9
2 Chloromethane	50	3.955	3.955	(0.519)	206070	10.0000	10
3 Dichlorotetrafluoroethane	85	4.085	4.085	(0.536)	809859	10.0000	10
4 Vinyl Chloride	62	4.171	4.171	(0.547)	224852	10.0000	10
5 Bromomethane	94	4.546	4.546	(0.597)	272737	10.0000	9.9
6 Chloroethane	64	4.719	4.719	(0.619)	133364	10.0000	10(M)
7 Trichlorofluoromethane	101	5.375	5.375	(0.705)	745546	10.0000	9.9(M)
8 1,1-Dichloroethene	96	5.891	5.891	(0.773)	265771	10.0000	9.9
9 Methylene Chloride	49	5.982	5.982	(0.785)	304170	10.0000	9.3
10 Freon TF	101	6.210	6.210	(0.815)	611228	10.0000	10
11 1,1-Dichloroethane	63	6.892	6.892	(0.904)	501522	10.0000	10
12 cis-1,2-Dichloroethene	61	7.484	7.484	(0.982)	369594	10.0000	9.9
* 13 Bromochloromethane	128	7.621	7.621	(1.000)	335524	10.0000	
14 Chloroform	83	7.697	7.697	(1.010)	654964	10.0000	9.9

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
	15 1,2-Dichloroethane	62	8.243	8.243	(1.082)	431485	10.0000	9.7
	16 1,1,1-Trichloroethane	97	8.425	8.425	(1.106)	604178	10.0000	9.6
	17 Benzene	78	8.744	8.744	(0.976)	795923	10.0000	9.7
	18 Carbon Tetrachloride	117	8.835	8.835	(0.986)	616952	10.0000	10
*	19 1,4-Difluorobenzene	114	8.956	8.956	(1.000)	1443226	10.0000	
	20 1,2-Dichloropropane	63	9.290	9.290	(1.037)	302529	10.0000	9.8
	21 Trichloroethene	95	9.442	9.442	(1.054)	394714	10.0000	9.9
	22 cis-1,3-Dichloropropene	75	10.003	10.003	(1.117)	371649	10.0000	10
	23 trans-1,3-Dichloropropene	75	10.337	10.337	(1.154)	240262	10.0000	9.2
	24 1,1,2-Trichloroethane	83	10.474	10.474	(1.169)	327884	10.0000	10
	25 Toluene	92	10.656	10.656	(0.900)	608775	10.0000	10
	26 1,2-Dibromoethane	107	11.126	11.126	(0.940)	506187	10.0000	10
	27 Tetrachloroethene	166	11.415	11.415	(0.964)	465030	10.0000	9.9
*	28 Chlorobenzene-d5	117	11.840	11.840	(1.000)	1506068	10.0000	
	29 Chlorobenzene	112	11.870	11.870	(1.003)	785207	10.0000	9.8
	30 Ethylbenzene	91	12.098	12.098	(1.022)	1412489	10.0000	10
	31 Xylene (m,p)	106	12.219	12.219	(1.032)	1006652	20.0000	20
	32 Styrene	104	12.462	12.462	(1.053)	503486	10.0000	10
M	33 Xylene (total)	106				1494475	10.0000	30
	34 1,1,2,2-Tetrachloroethane	83	12.523	12.523	(1.058)	772225	10.0000	9.8
	35 Xylene (o)	106	12.538	12.538	(1.059)	487823	10.0000	10
	36 1,3,5-Trimethylbenzene	105	13.463	13.463	(1.137)	1006840	10.0000	10
	37 1,2,4-Trimethylbenzene	105	13.782	13.782	(1.164)	909158	10.0000	10
	38 1,3-Dichlorobenzene	146	13.934	13.934	(1.177)	598947	10.0000	9.3
	39 1,4-Dichlorobenzene	146	13.995	13.995	(1.182)	614179	10.0000	9.4
	40 1,2-Dichlorobenzene	146	14.283	14.283	(1.206)	481180	10.0000	9.3
	41 1,2,4-Trichlorobenzene	180	15.846	15.846	(1.338)	51665	10.0000	7.3
	42 Hexachlorobutadiene	225	16.271	16.271	(1.374)	101567	10.0000	8.2

QC Flag Legend

M - Compound response manually integrated.

MJM 12/26/00

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

METHOD TO-14A
VOLATILE ORGANIC ANALYSIS

RAW QC DATA

Data File: /chem/W.i/Wsvr.p/wceto14.b/ce001p.d

Date : 18-DEC-2000 08:05

Client ID: WBFB001

Instrument: W.i

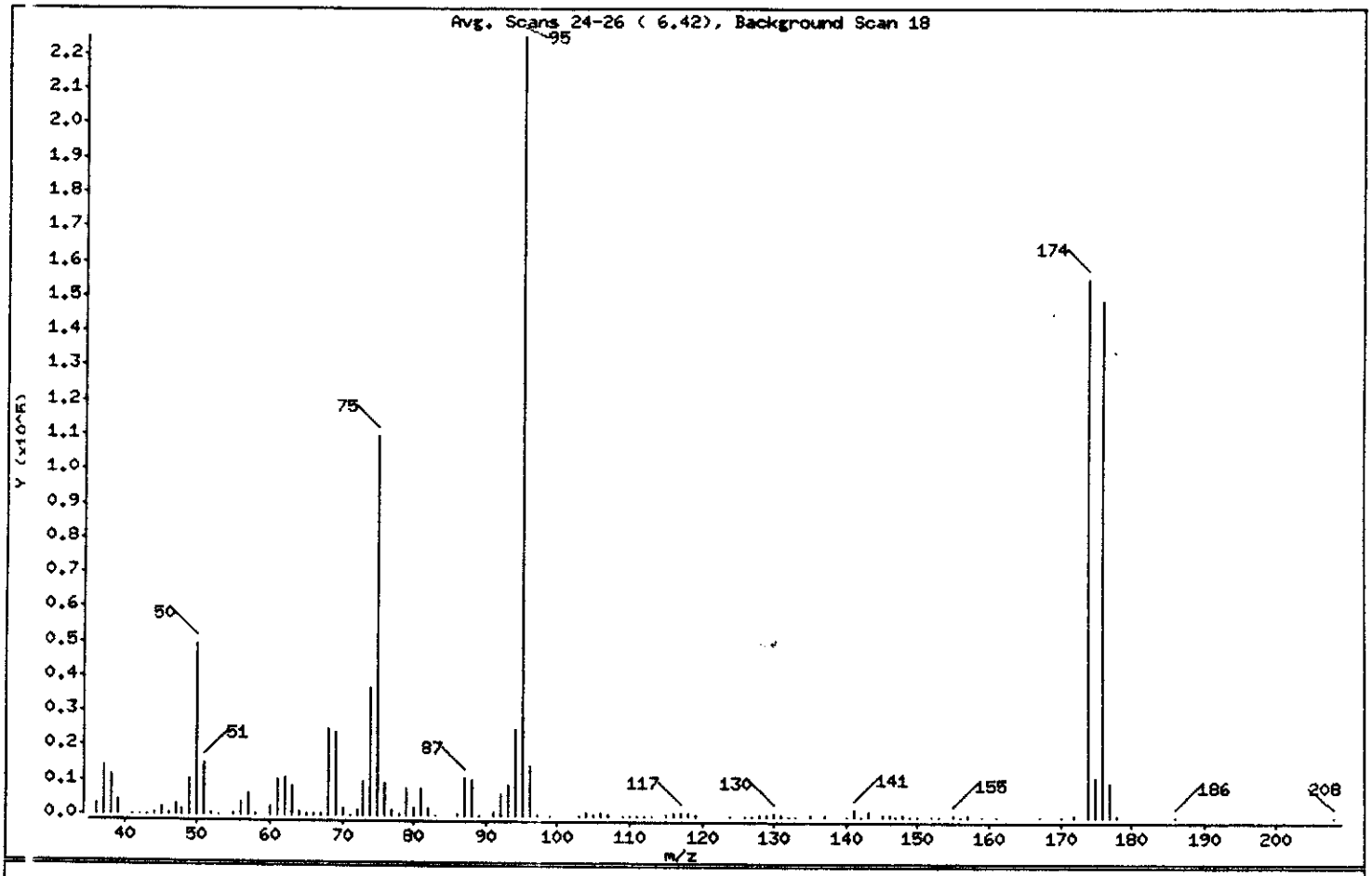
Sample Info: WBFB001

Operator: GHM

Column phase: DB-1

Column diameter: 0.32

% 1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	21.79
75	30.00 - 66.00% of mass 95	48.61
96	5.00 - 9.00% of mass 95	6.36
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 120.00% of mass 95	68.86
175	4.00 - 9.00% of mass 174	5.04 (7.32)
176	93.00 - 101.00% of mass 174	66.24 (96.20)
177	5.00 - 9.00% of mass 176	4.37 (6.59)

Data File: /chem/W.i/Wsvr.p/wceto14.b/ce001p.d

Date : 18-DEC-2000 08:05

Client ID: WBFB001

Instrument: W.i

Sample Info: WBFB001

Operator: GMH

Column phase: DB-1

Column diameter: 0.32

Data File: ce001p.d

Spectrum: Avg. Scans 24-26 (6.42), Background Scan 18

Location of Maximum: 95.00

Number of points: 110

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2910	67.00	467	99.00	61	141.00	1879
37.00	13908	68.00	24824	103.00	213	142.00	233
38.00	11543	69.00	24000	104.00	922	143.00	1744
39.00	4393	70.00	1985	105.00	477	145.00	270
41.00	19	71.00	58	106.00	1041	146.00	374
42.00	23	72.00	1387	107.00	347	147.00	146
43.00	128	73.00	9701	109.00	117	148.00	339
44.00	575	74.00	36752	110.00	170	149.00	164
45.00	2314	75.00	109456	111.00	169	150.00	186
46.00	288	76.00	9129	112.00	51	152.00	147
47.00	3115	77.00	1332	113.00	127	153.00	59
48.00	1547	78.00	706	115.00	363	155.00	429
49.00	10543	79.00	8023	116.00	795	156.00	50
50.00	49064	80.00	2151	117.00	1125	157.00	311
51.00	15141	81.00	7941	118.00	809	159.00	147
52.00	397	82.00	1817	119.00	705	161.00	205
53.00	26	83.00	11	124.00	52	167.00	197
55.00	500	86.00	289	126.00	118	170.00	57
56.00	3604	87.00	10899	127.00	56	172.00	704
57.00	6303	88.00	10210	128.00	726	174.00	155008
58.00	279	89.00	63	129.00	529	175.00	11355
60.00	2433	91.00	886	130.00	988	176.00	149120
61.00	10471	92.00	6033	131.00	406	177.00	9829
62.00	10783	93.00	8855	132.00	57	178.00	282
63.00	8274	94.00	25088	133.00	64	186.00	65
64.00	815	95.00	225152	135.00	313	208.00	51
65.00	540	96.00	14324	137.00	339		
66.00	299	97.00	558	140.00	131		

Data File: /chem/W.i/Wsvr.p/wceto14.b/ce001p.d

Date : 18-DEC-2000 08:05

Client ID: WBFB001

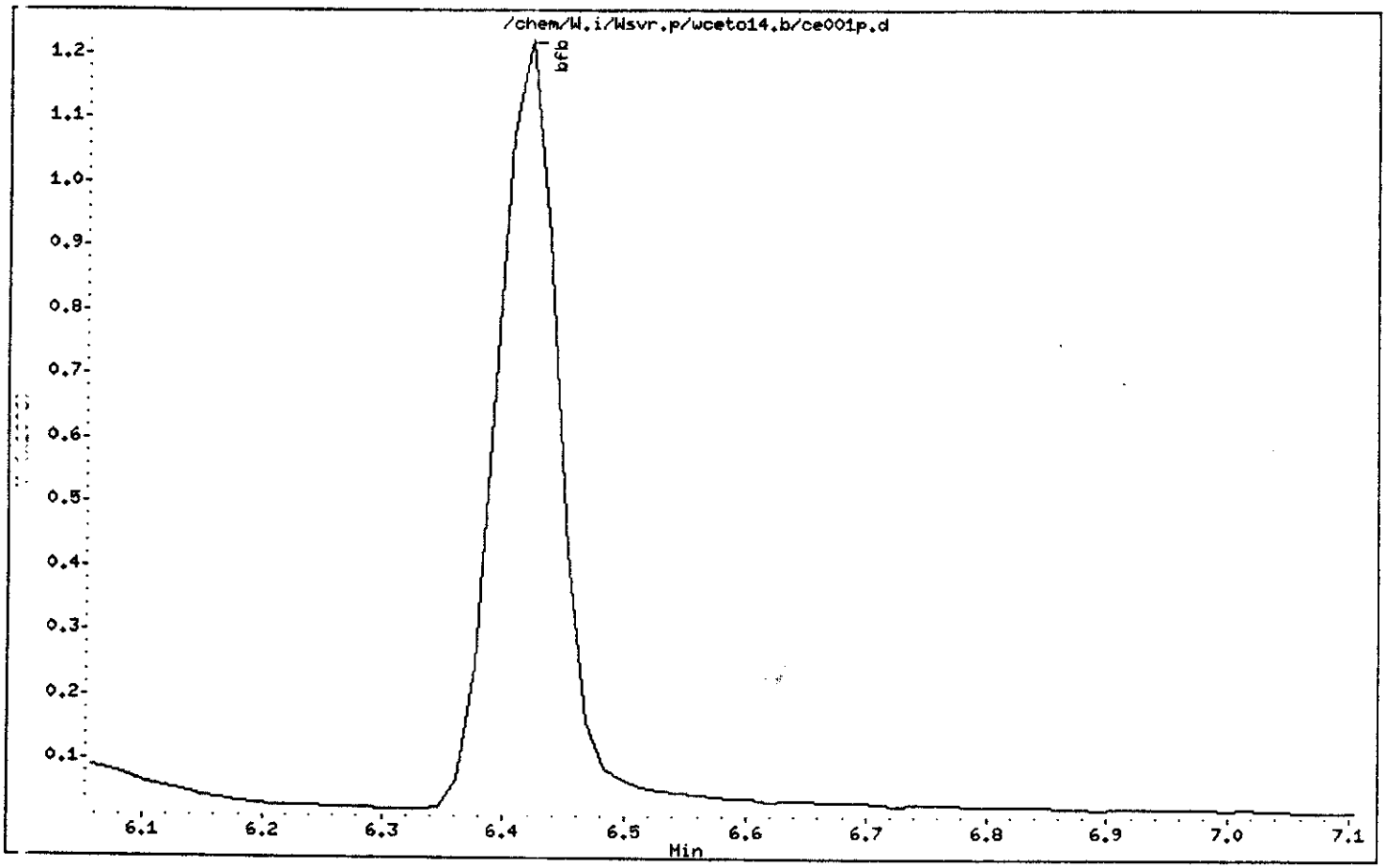
Instrument: W.i

Sample Info: WBFB001

Operator: GMM

Column phase: DB-1

Column diameter: 0.32



FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

STLVT SAMPLE NO.

ABLKL4

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81024

Matrix: (soil/water) AIR Lab Sample ID: ABLKL4

Sample wt/vol: 200 (g/mL) ML Lab File ID: CEB001

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 12/18/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-09-2	Methylene Chloride	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
1330-20-7	Xylene (m,p)	0.50	U
95-47-6	Xylene (o)	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

STLVT SAMPLE NO.

ABLKL4

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81024

Matrix: (soil/water) AIR Lab Sample ID: ABLKL4

Sample wt/vol: 200 (g/mL) ML Lab File ID: CEB001

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 12/18/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ppbv

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
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29.				
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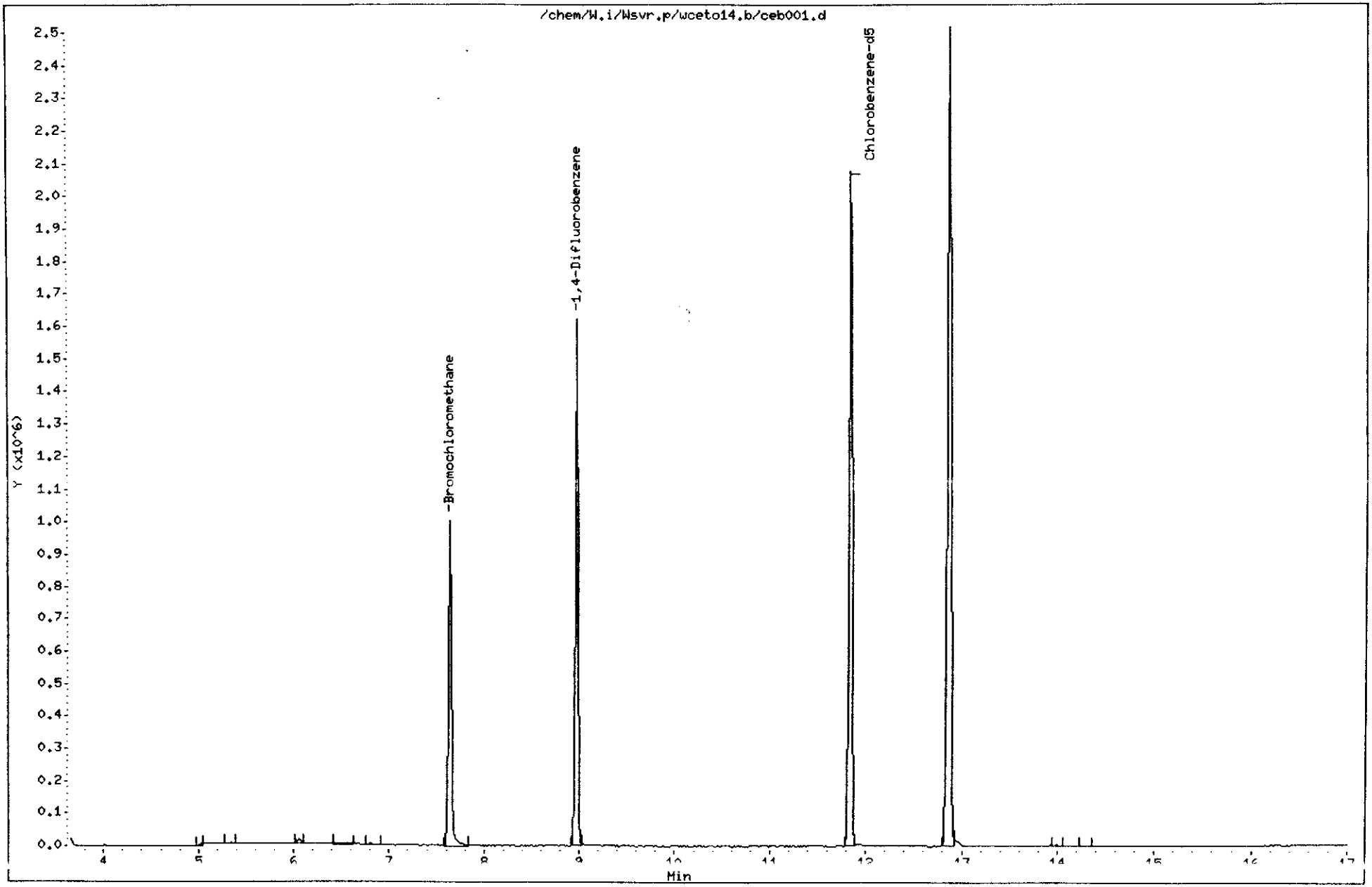
FORM I VOA-TIC

Data File: /chem/W.i/Wsvr.p/wceto14.b/ceb001.d
Date : 18-DEC-2000 15:25
Client ID: ABLKL4
Sample Info: ABLKL4;ABLKL4;;1218L4
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i
Operator: GMH
Column diameter: 0.35



STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wceto14.b/ceb001.d
Lab Smp Id: ABLKL4 Client Smp ID: ABLKL4
Inj Date : 18-DEC-2000 15:25
Operator : GMM Inst ID: W.i
Smp Info : ABLKL4;ABLKL4;;1218L4
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wceto14.b/ato14.m
Meth Date : 26-Dec-2000 14:40 mim Quant Type: ISTD
Cal Date : 18-DEC-2000 13:44 Cal File: ce010i2.d
Als bottle: 2 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA2.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
2 Chloromethane	50	Compound Not Detected.					
4 Vinyl Chloride	62	Compound Not Detected.					
5 Bromomethane	94	Compound Not Detected.					
6 Chloroethane	64	Compound Not Detected.					
7 Trichlorofluoromethane	101	Compound Not Detected.					
9 Methylene Chloride	49	Compound Not Detected.					
11 1,1-Dichloroethane	63	Compound Not Detected.					
12 cis-1,2-Dichloroethene	61	Compound Not Detected.					
* 13 Bromochloromethane	128	7.637	7.621	(1.000)	297081	10.0000	
14 Chloroform	83	Compound Not Detected.					
15 1,2-Dichloroethane	62	Compound Not Detected.					
16 1,1,1-Trichloroethane	97	Compound Not Detected.					
17 Benzene	78	Compound Not Detected.					
18 Carbon Tetrachloride	117	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
*	19 1,4-Difluorobenzene	114	8.972	8.956	(1.000)	1382662	10.0000	
	20 1,2-Dichloropropane	63	Compound Not Detected.					
	21 Trichloroethene	95	Compound Not Detected.					
	22 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	23 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	24 1,1,2-Trichloroethane	83	Compound Not Detected.					
	25 Toluene	92	Compound Not Detected.					
	27 Tetrachloroethene	166	Compound Not Detected.					
*	28 Chlorobenzene-d5	117	11.840	11.840	(1.000)	1481319	10.0000	
	29 Chlorobenzene	112	Compound Not Detected.					
	30 Ethylbenzene	91	Compound Not Detected.					
	31 Xylene (m,p)	106	Compound Not Detected.					
	32 Styrene	104	Compound Not Detected.					
M	33 Xylene (total)	106	Compound Not Detected.					
	34 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	35 Xylene (o)	106	Compound Not Detected.					
	38 1,3-Dichlorobenzene	146	Compound Not Detected.					
	39 1,4-Dichlorobenzene	146	Compound Not Detected.					
	40 1,2-Dichlorobenzene	146	Compound Not Detected.					

STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wceto14.b/ceb001.d
Lab Smp Id: ABLKL4 Client Smp ID: ABLKL4
Inj Date : 18-DEC-2000 15:25
Operator : GMM Inst ID: W.i
Smp Info : ABLKL4;ABLKL4;;1218L4
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wceto14.b/ato14.m
Meth Date : 26-Dec-2000 14:40 mim Quant Type: ISTD
Cal Date : 18-DEC-2000 13:44 Cal File: ce010i2.d
Als bottle: 2 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA2.sub
Target Version: 3.50
Processing Host: chemsvr4

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

STLVT SAMPLE NO.

L4_ICVLCS

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81024

Matrix: (soil/water) AIR Lab Sample ID: L4_ICVLCS

Sample wt/vol: 200 (g/mL) ML Lab File ID: CE010Q

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 12/18/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	9.5	
75-01-4	Vinyl Chloride	9.5	
74-83-9	Bromomethane	9.1	
75-00-3	Chloroethane	9.0	
75-69-4	Trichlorofluoromethane	9.4	
75-09-2	Methylene Chloride	8.7	
75-34-3	1,1-Dichloroethane	9.4	
156-59-2	cis-1,2-Dichloroethene	9.4	
67-66-3	Chloroform	9.4	
71-55-6	1,1,1-Trichloroethane	9.1	
56-23-5	Carbon Tetrachloride	9.6	
71-43-2	Benzene	9.3	
107-06-2	1,2-Dichloroethane	9.7	
79-01-6	Trichloroethene	9.7	
78-87-5	1,2-Dichloropropane	9.5	
10061-01-5	cis-1,3-Dichloropropene	9.5	
108-88-3	Toluene	9.6	
10061-02-6	trans-1,3-Dichloropropene	8.6	
79-00-5	1,1,2-Trichloroethane	9.7	
127-18-4	Tetrachloroethene	9.2	
108-90-7	Chlorobenzene	9.3	
100-41-4	Ethylbenzene	9.6	
1330-20-7	Xylene (total)	29	
100-42-5	Styrene	11	
1330-20-7	Xylene (m,p)	19	
95-47-6	Xylene (o)	9.6	
79-34-5	1,1,2,2-Tetrachloroethane	9.9	
541-73-1	1,3-Dichlorobenzene	10	
106-46-7	1,4-Dichlorobenzene	10	
95-50-1	1,2-Dichlorobenzene	10	

Data File: /chem/W.i/Wsvr.p/wceto14.b/ce010q.d

Date : 18-DEC-2000 14:17

Client ID: L4_ICVLCS

Instrument: W.i

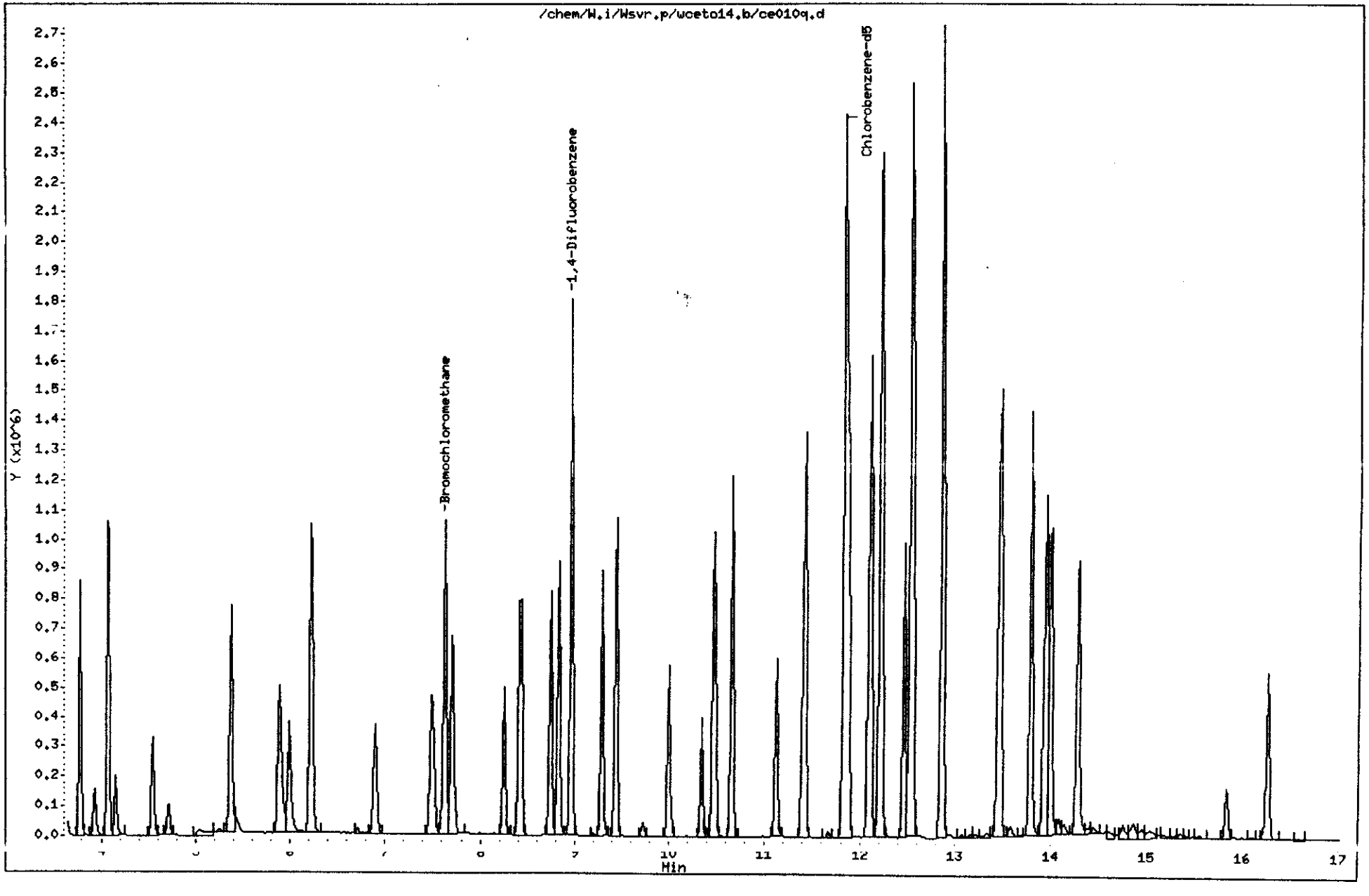
Sample Info: L4_ICV;L4_ICVLCS

Purge Volume: 200.0

Operator: GMH

Column phase: DB-1

Column diameter: 0.35



0105

STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wceto14.b/ce010q.d
Lab Smp Id: L4_ICVLCS Client Smp ID: L4_ICVLCS
Inj Date : 18-DEC-2000 14:17
Operator : GMM Inst ID: W.i
Smp Info : L4_ICV;L4_ICVLCS
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wceto14.b/ato14.m
Meth Date : 26-Dec-2000 14:40 mim Quant Type: ISTD
Cal Date : 18-DEC-2000 13:44 Cal File: ce010i2.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
1 Dichlorodifluoromethane	85	3.780	3.797	(0.496)	746358	9.33348	9.3
2 Chloromethane	50	3.939	3.955	(0.517)	191492	9.49458	9.5
3 Dichlorotetrafluoroethane	85	4.069	4.085	(0.534)	747656	9.20991	9.2
4 Vinyl Chloride	62	4.155	4.171	(0.545)	207034	9.54070	9.5
5 Bromomethane	94	4.544	4.546	(0.596)	253870	9.07523	9.1
6 Chloroethane	64	4.717	4.719	(0.619)	120784	9.03426	9.0(M)
7 Trichlorofluoromethane	101	5.376	5.375	(0.705)	716553	9.41236	9.4(M)
8 1,1-Dichloroethene	96	5.892	5.891	(0.773)	253482	9.35160	9.4
9 Methylene Chloride	49	5.983	5.982	(0.785)	287208	8.70182	8.7
10 Freon TF	101	6.211	6.210	(0.815)	585471	9.46975	9.5
11 1,1-Dichloroethane	63	6.894	6.892	(0.904)	477215	9.42615	9.4
12 cis-1,2-Dichloroethene	61	7.486	7.484	(0.982)	356603	9.44152	9.4
* 13 Bromochloromethane	128	7.622	7.621	(1.000)	339941	10.0000	(Q)
14 Chloroform	83	7.698	7.697	(1.010)	630819	9.42889	9.4

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
	15 1,2-Dichloroethane	62	8.244	8.243	(1.082)	436880	9.72240	9.7
	16 1,1,1-Trichloroethane	97	8.426	8.425	(1.106)	579758	9.11916	9.1
	17 Benzene	78	8.745	8.744	(0.976)	764070	9.33408	9.3
	18 Carbon Tetrachloride	117	8.836	8.835	(0.986)	581541	9.63601	9.6
*	19 1,4-Difluorobenzene	114	8.958	8.956	(1.000)	1434000	10.0000	
	20 1,2-Dichloropropane	63	9.291	9.290	(1.037)	292281	9.52566	9.5
	21 Trichloroethene	95	9.443	9.442	(1.054)	384266	9.66182	9.7
	22 cis-1,3-Dichloropropene	75	10.005	10.003	(1.117)	348128	9.51202	9.5
	23 trans-1,3-Dichloropropene	75	10.339	10.337	(1.154)	224422	8.65277	8.6
	24 1,1,2-Trichloroethane	83	10.475	10.474	(1.169)	315316	9.66248	9.7
	25 Toluene	92	10.657	10.656	(0.900)	584045	9.59851	9.6
	26 1,2-Dibromoethane	107	11.128	11.126	(0.940)	488202	9.68437	9.7
	27 Tetrachloroethene	166	11.416	11.415	(0.964)	443018	9.25248	9.2
*	28 Chlorobenzene-d5	117	11.841	11.840	(1.000)	1534243	10.0000	
	29 Chlorobenzene	112	11.871	11.870	(1.003)	755097	9.28431	9.3
	30 Ethylbenzene	91	12.099	12.098	(1.022)	1350371	9.64554	9.6
	31 Xylene (m,p)	106	12.220	12.219	(1.032)	980171	19.3686	19
	32 Styrene	104	12.463	12.462	(1.053)	567917	11.2585	11
M	33 Xylene (total)	106				1457422	29.0105	29
	34 1,1,2,2-Tetrachloroethane	83	12.524	12.523	(1.058)	798442	9.91257	9.9
	35 Xylene (o)	106	12.539	12.538	(1.059)	477251	9.64181	9.6
	36 1,3,5-Trimethylbenzene	105	13.465	13.463	(1.137)	1044500	10.3732	10
	37 1,2,4-Trimethylbenzene	105	13.783	13.782	(1.164)	987639	10.6367	11
	38 1,3-Dichlorobenzene	146	13.935	13.934	(1.177)	663101	10.1376	10
	39 1,4-Dichlorobenzene	146	13.996	13.995	(1.182)	669222	10.0153	10
	40 1,2-Dichlorobenzene	146	14.284	14.283	(1.206)	533130	10.1282	10
	41 1,2,4-Trichlorobenzene	180	15.847	15.846	(1.338)	72465	10.0747	10
	42 Hexachlorobutadiene	225	16.257	16.271	(1.373)	127872	10.1693	10

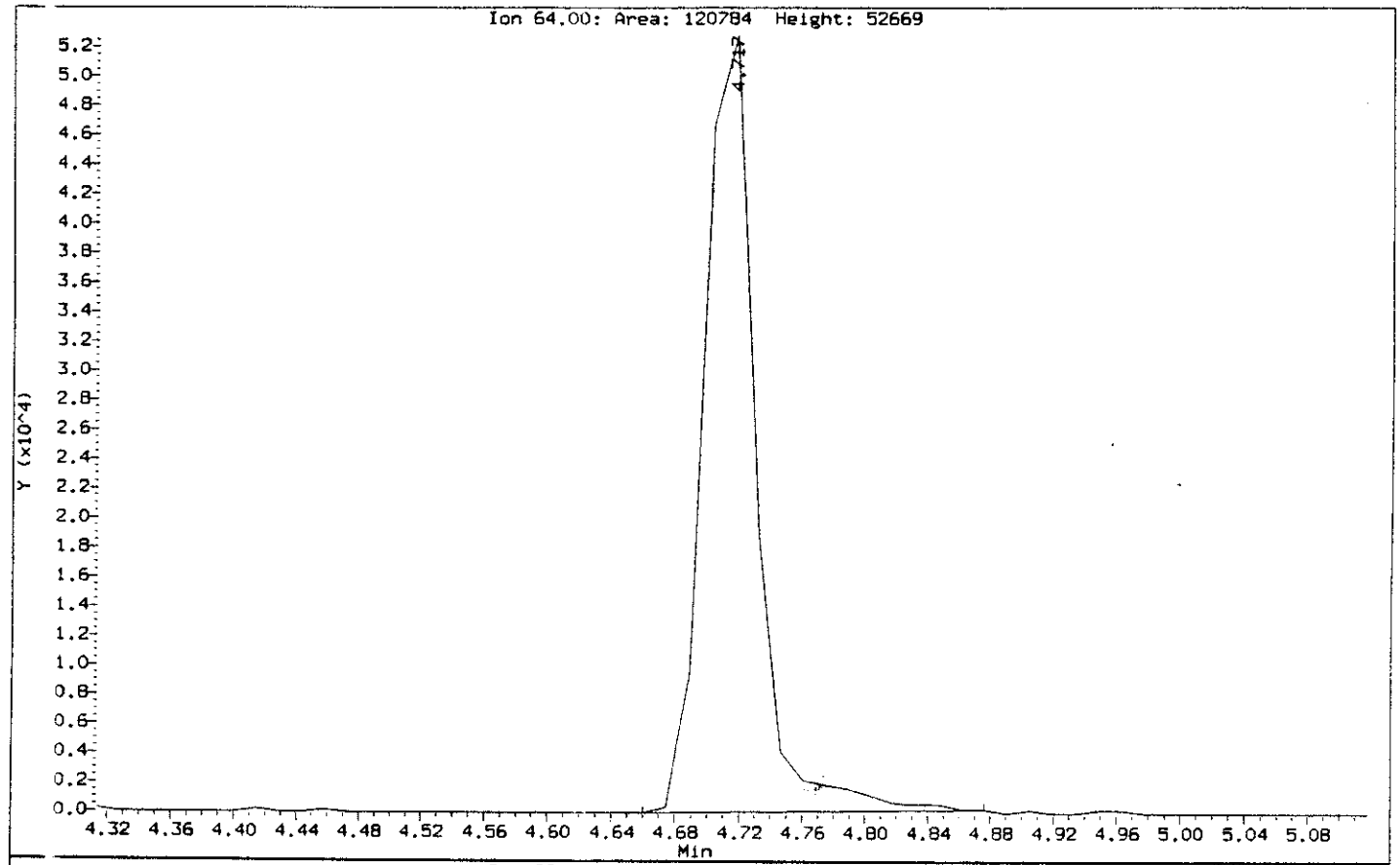
QC Flag Legend

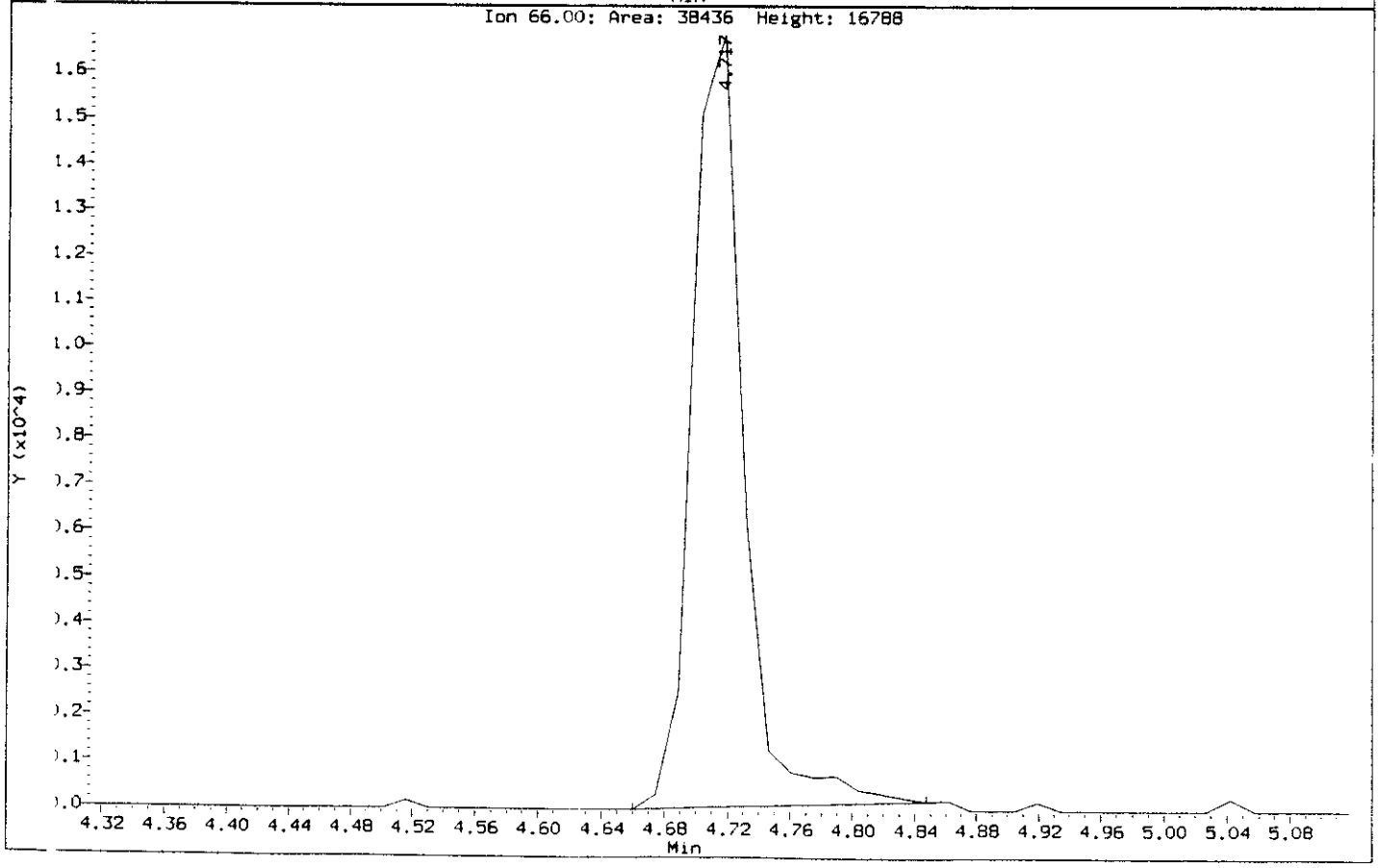
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

MWM 12/26/00

Data File: /chem/W.i/Wsvr.p/wceto14.b/ce010q.d
Injection Date: 18-DEC-2000 14:17
Instrument: W.i
Client Sample ID: L4_ICVLCS

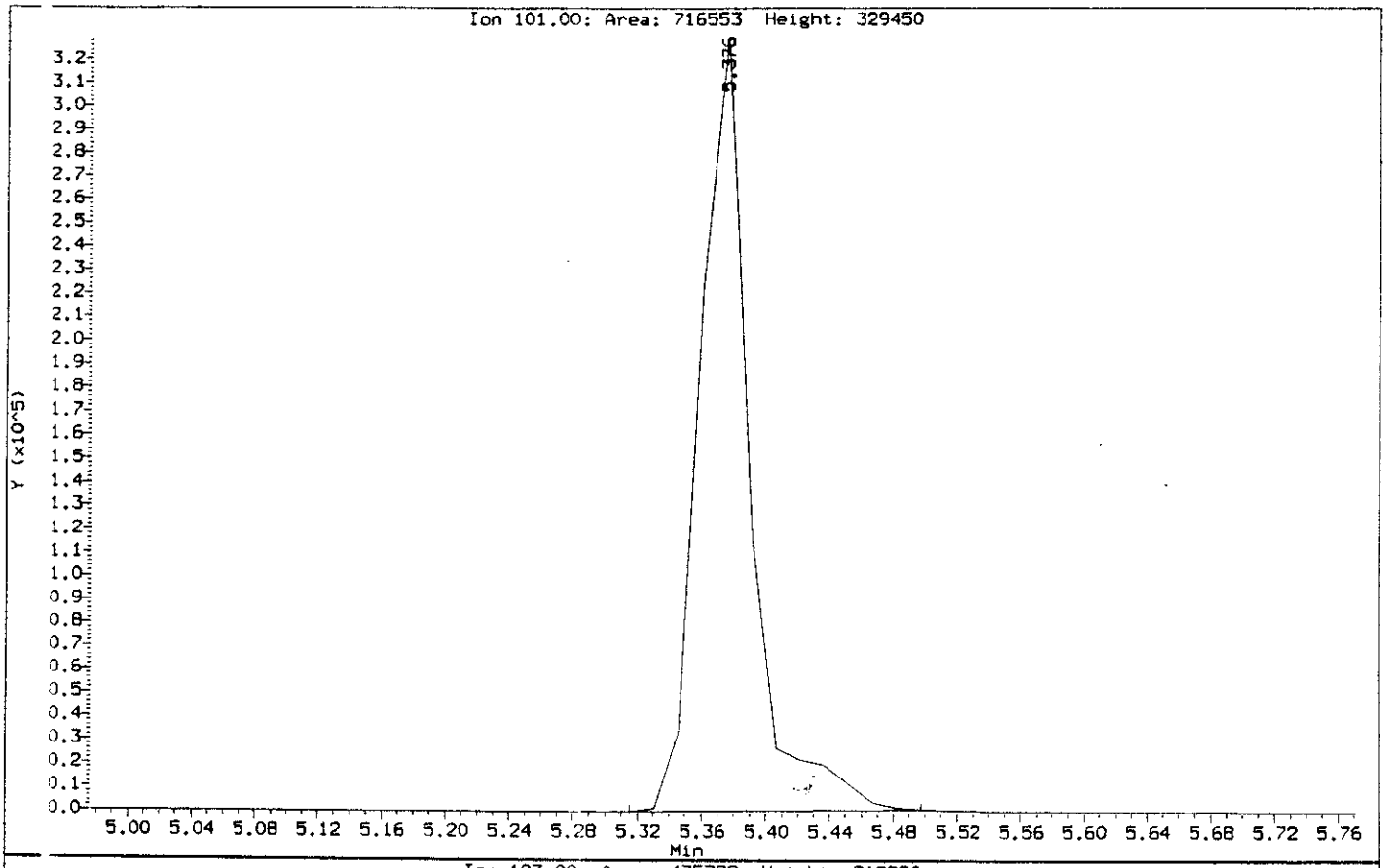
Compound: Chloroethane
CAS Number: 75-00-3

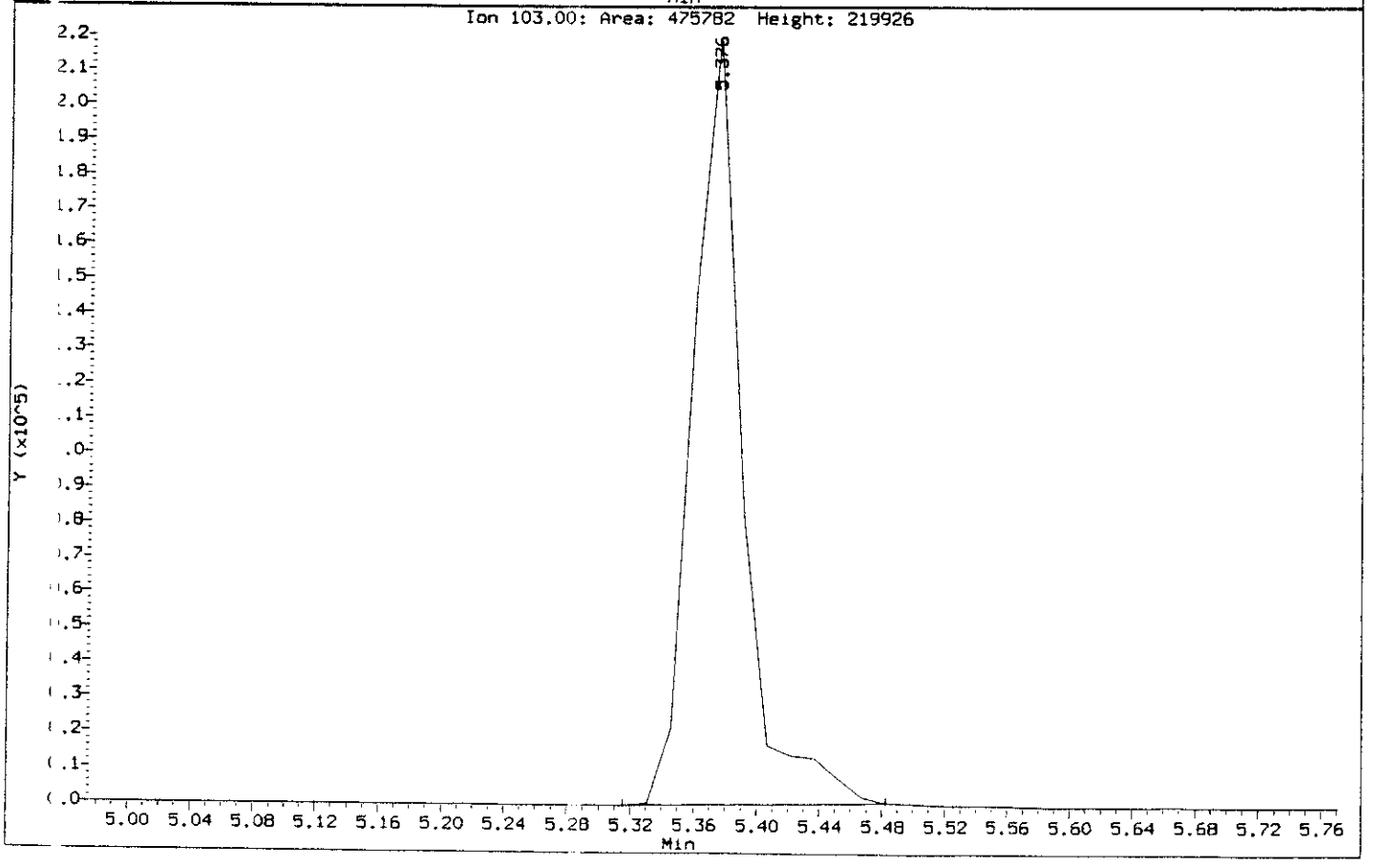




Data File: /chem/W.i/Wsvr.p/wceto14.b/ce010q.d
Injection Date: 18-DEC-2000 14:17
Instrument: W.i
Client Sample ID: L4_ICVLCS

Compound: Trichlorofluoromethane
CAS Number: 75-69-4





STL Burlington

RECOVERY REPORT

Client Name: STLVT
Sample Matrix: GAS
Lab Smp Id: L4_ICVLCS
Level: LOW
Data Type: MS DATA
SpikeList File: all.spk
Sublist File: all.sub
Method File: /chem/W.i/Wsvr.p/wceto14.b/ato14.m
Misc Info:

Client SDG:
Fraction: VOA
Client Smp ID: L4_ICVLCS
Operator: GMM
SampleType: LCS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ppbv	CONC RECOVERED ppbv	% RECOVERED	LIMITS
1 Dichlorodifluorome	10	9.3	93.33	70-130
2 Chloromethane	10	9.5	94.95	70-130
3 Dichlorotetrafluor	10	9.2	92.10	70-130
4 Vinyl Chloride	10	9.5	95.41	70-130
5 Bromomethane	10	9.1	90.75	70-130
6 Chloroethane	10	9.0	90.34	70-130
7 Trichlorofluoromet	10	9.4	94.12	70-130
8 1,1-Dichloroethene	10	9.4	93.52	70-130
9 Methylene Chloride	10	8.7	87.02	70-130
10 Freon TF	10	9.5	94.70	70-130
11 1,1-Dichloroethane	10	9.4	94.26	70-130
12 cis-1,2-Dichloroet	10	9.4	94.42	70-130
14 Chloroform	10	9.4	94.29	70-130
15 1,2-Dichloroethane	10	9.7	97.22	70-130
16 1,1,1-Trichloroeth	10	9.1	91.19	70-130
17 Benzene	10	9.3	93.34	70-130
18 Carbon Tetrachlori	10	9.6	96.36	70-130
20 1,2-Dichloropropan	10	9.5	95.26	70-130
21 Trichloroethene	10	9.7	96.62	70-130
22 cis-1,3-Dichloropr	10	9.5	95.12	70-130
23 trans-1,3-Dichloro	10	8.6	86.53	70-130
24 1,1,2-Trichloroeth	10	9.7	96.62	70-130
25 Toluene	10	9.6	95.99	70-130
26 1,2-Dibromoethane	10	9.7	96.84	70-130
27 Tetrachloroethene	10	9.2	92.52	70-130
29 Chlorobenzene	10	9.3	92.84	70-130
30 Ethylbenzene	10	9.6	96.46	70-130
31 Xylene (m,p)	20	19	96.84	70-130
32 Styrene	10	11	112.59	70-130
34 1,1,2,2-Tetrachlor	10	9.9	99.13	70-130
35 Xylene (o)	10	9.6	96.42	70-130
36 1,3,5-Trimethylben	10	10	103.73	70-130
37 1,2,4-Trimethylben	10	11	106.37	70-130

SPIKE COMPOUND	CONC ADDED ppbv	CONC RECOVERED ppbv	% RECOVERED	LIMITS
38 1,3-Dichlorobenzen	10	10	101.38	70-130
39 1,4-Dichlorobenzen	10	10	100.15	70-130
40 1,2-Dichlorobenzen	10	10	101.28	70-130
41 1,2,4-Trichloroben	10	10	100.75	70-130
42 Hexachlorobutadien	10	10	101.69	70-130

SEVERN
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SERVICES

Severn Trent Laboratories, Inc.

SAMPLE PREPARATION

Severn Trent Laboratories-VT
Instrument Run Log
Instrument W

ETR #	SDG #
81024	81024
81015	BBL5001

Batch: wcet014
Opened: 12 / 18 / 00 Time: 0805
Closed: 12 / 19 / 00 Time: 0805

Temp: 19.5 °C B.P.: 29.27 Hg

Tune: ✓ 352K
ISTD Tag #: 01-1388

INJ. TIME	LAB ID	CAN ID #	CLIENT ID	ETR #	INLET #	SAMPLE VOLUME (mL)	DILUTION FACTOR	ISTD RECOVERY	CONC.	ANALYST	COMMENTS
0805	CE001P	n/a	WBFB001	n/a	n/a	n/a	n/a	n/a	✓	GMM	
0830	CE0005	6080	ASTD0005		2	20		✓	✓		AT12150001
1114	CE005	6076	005		3	25		✓	✓		AT12150001
0933	CE010		010		3	50		✓	✓		
1004	CE020		020		3	100		✓	✓		
1038	CE040		040		3	200		✓	✓		
1223	CE0005.2	6080	0005		2	20		✓	✓		AT11290001
1344	CE010.2	6076	010		3	50		✓	✓		
1417	CE0109	6063	L4-ICV		4	200		✓	✓		
1525	CEB001	n/a	ABLKL4		1	200		✓	✓		
1635	440589	6112	-ACAIA1-	81024	2	200	1:1	✓	✓		C
1707	440590	6104	-ACA2IA1-		3			✓	✓		C
1741	440591	6139	-ACAEA-		4			✓	✓		C
1815	440544	6144	AA-01-01	81015	6			✓	✓		C
1849	440545	6073	AA-02-01		7			✓	✓		C
1923	440546	6039	AA-03-01		9			✓	✓		C
1959	440547	6164	AA-04-01		10			✓	✓		
2033	440548	6056	GV-01-01		11			✓	↑		

GCMS 0042B 113098

Severn Trent Laboratories - VT

SEVERN
TRENT
SERVICES

Severn Trent Laboratories, Inc.

SAMPLE HANDLING

PLEASE FOLD THIS SHIPPING DOCUMENT IN HALF AND PLACE IT IN A WAYBILL POUCH AFFIXED TO YOUR SHIPMENT SO THAT THE BAR-CODE PORTION OF THE LABEL CAN BE READ AND SCANNED.
***WARNING: USE ONLY THE PRINTED ORIGINAL LABEL FOR SHIPPING. USING A PHOTOCOPY OF THIS LABEL FOR SHIPPING PURPOSES IS FRAUDULENT AND COULD RESULT IN ADDITIONAL BILLING CHARGES, ALONG WITH THE CANCELLATION OF YOUR FEDEX ACCOUNT NUMBER.

FROM: Randy Dumaop (904)777-4812
CCI / J.A. Jones Environmental
6219 Authority Ave.
Building 1
Jacksonville, FL 32215

SHIPPER'S FEDEX ACCOUNT NUMBER

FedEx
Federal Express

TO: Ron Pentkowski (802)655-1203
Severn Trent Laboratories
208 South Park Drive
Suite 1

Colchester, VT 05446-

SHIP DATE: 12DEC00
MAN-WGT: 25 LBS

REF: 154282.99.22.01.01

DELIVERY ADDRESS BARCODE (FEDEX-EDR)

CAD # 3844729 ** 2DAY **

THU
AA

Deliver By:
BTV 14DEC00

TRK # 7919 1909 9377 FORM 0201

05446-VT-US SB BTVA

12-15-00 1000

0119

SEVERN TRENT LABORATORIES LOG-IN SHEET - Form DC-1

Lab Name: Severn Trent Laboratories - VT

Page 1 of 1

Received By (Print Name): Frank Bessette

Log-in Date: 12-15-00

Received By (Signature):

Case Number: 20031

Sample Delivery Group No: 81024

ETR Number: 81024

REMARKS:

1. **Custody Seal** Present/~~Absent~~*
   Intact/~~Broken~~
2. **Custody Seal Nos.:** ✓
3. **Chain-of-Custody Records** Present/~~Absent~~*
4. **Sample Information Sheets** ~~Present~~/Absent*
5. **Airbill** Airbill/~~Sticker~~
   Present/~~Absent~~*
6. **Airbill No.:** 7919-1909-9377
7. **Sample Tags** ~~Present~~/Absent*
   Sample Tag Numbers ~~Listed~~/Not Listed on Chain-of-Custody
8. **Sample Condition:** Intact/~~Broken~~*
   ~~Leaking~~
9. **Does information on the custody records, sample information sheets, sample tags and labels agree?** Yes/~~No~~*
10. **Date Received at Lab:** 12-15-00
11. **Time Received:** 1000
12. **Cooler Temperature:** N/A

Sample Transfer

Fraction: All

Area #: Level 4

By: FNB

On: 12-15-00

CORRESPONDING			
CLIENT SAMPLE #	SAMPLE TAG #	ASSIGNED LAB #	REMARKS: CONDITION OF SAMPLE SHIPMENT, ETC.
023ACATA121000	NA	440589	Were air bubbles present
023ACATA121000	"	440590	in any VOA vials? NA
023ACAEA121000	"	440591	Samples rec'd
			intact in a box
			with unbroken
			custody seals
			present.
			For sample trun-
			cation removed
			dashes.
			FNB 12-15-00

* Contact Project Director

Reviewed by: _____

Logbook No.: _____

Date: _____

Logbook Page No.: _____

0120

** COOLER RECEIPT CHECKLIST **

WERE CUSTODY SEALS PRESENT ON THE COOLERS?

YES NO

IF SO, WERE THERE CUSTODY SEAL NUMBERS?

YES NO

LIST THE CUSTODY SEAL NUMBERS. / /

WHAT TYPE OF COOLING WAS UTILIZED?

ICE MELTED ICE PACKS NONE

COOLER TEMPERATURE (degrees c): Box

DATE AND TIME COOLER RECEIVED: 12-15-00 1000

DO SAMPLES APPEAR TO BE INTACT: YES NO

DO ANY SAMPLES HAVE SHORT HOLDING TIMES?
(less than seven days)

WET CHEM	YES	NO
EXTRACTABLES	YES	NO
UNPRES VOA	YES	NO

RADIATION SCREEN RESULTS <0.05 MR/HR YES NO

Appendix B

Laboratory Analytical Report for Groundwater Samples

(CD only)

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia, 30071, Phone (770) 449-8800

CASE NARRATIVE for Project Number: 26563
Client Project: NAS Cecil Field 103rd Street GW Sampling / 154282 / CTO - 0029

The following items were noted concerning this project:

1. The following samples were received at Accura Analytical Laboratory on 12/21/00 at 1100.

Client I.D.	Laboratory I.D.
029-SMW01-Q4-00-07	AC05535
029-SMW02-Q4-00-07	AC05536
029-SMW03-Q4-00-07	AC05537
029-SMW07-Q4-00-07	AC05538
029-SMW10-Q4-00-07	AC05539
029-SMW11-Q4-00-07	AC05540
029-DUP-Q4-00-07	AC05541
029-EQB-Q4-00-07	AC05542
Trip Blank	AC05543

CCI NAVY RAC PMO
JAN 30 2001

2. The sample cooler temperature was noted to be 2^0C upon receipt.

3. The pH for the samples for the VOC analysis was noted at <2.0 prior to analysis.

4. The J values noted for the FL-PRO and VOC analyses indicate estimated values where the compounds are present at concentrations that are less than the quantitation limits, but above the method detection limits.

5. The B values noted for the FL-PRO and VOC analyses indicate that the compounds are present in the blank and in the samples, and the results should be considered estimated due to blank contamination.

6. The PAH by HPLC analysis was performed by a subcontract laboratory.

7. TICS were detected for the VOC analysis for sample 029-SW07-Q4-00-07.

8. The following samples required dilution due to high analyte concentration, resulting in elevated detection limits:

VOC – SW-846-8260B	FL-PRO
029-SMW11-Q4-00-07 (1,2,4-Trimethylbenzene)	029-SMW11-Q4-00-07

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9. The detection limits are elevated for the following sample due to limited sample volume:

PAH by HPLC – SW-846-8310
029-SW07-Q4-00-07

10. The following surrogates were outside the method specified limits :

FL-PRO

Nonatriacontane (C39) -	029-SWM01-Q4-00-07
	029-SWM02-Q4-00-07
	029-SWM03-Q4-00-07
	029-SWM07-Q4-00-07
	029-SMW10-Q4-00-07
	029-SMW11-Q4-00-07
	029-DUP-Q4-00-07
	029-EQB-Q4-00-07
	Method Blank
	Laboratory Control Sample
	Matrix Spike
	Matrix Spike Duplicate
o-Terphenyl -	029-SWM01-Q4-00-07
	029-SWM02-Q4-00-07
	029-SWM07-Q4-00-07
	029-SMW10-Q4-00-07
	029-SMW11-Q4-00-07
	029-DUP-Q4-00-07
	Laboratory Control Sample
	Matrix Spike
	Matrix Spike Duplicate

All recoveries were within established in-house limits; therefore the data was accepted.

11. The following surrogate was outside the subcontract laboratory's historical limits:

PAH by HPLC – SW-846-8310
p-Terphenyl d14 - 029-SMW07-Q4-00-07

12. The Laboratory Control Sample recovery was outside the project specified limit:

FL-PRO

The results for this analysis should be considered estimated.

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13. The following spike recoveries were outside the project specified limits:

VOC – SW-846-8260B

MS - 1,2,4-Trimethylbenzene 1,2-Dibromo-3-chloropropane n-Butylbenzene Naphthalene

MSD - 1,2,4-Trimethylbenzene 1,2-Dibromo-3-chloropropane 1,3,5-Trimethylbenzene n-Butylbenzene Naphthalene

FL-PRO

MS - FL-PRO

14. The following spike recoveries were outside the subcontract laboratory's historical limit:

PAH by HPLC – SW-846-8310

MS - Naphthalene 2-Methylnaphthalene Phenanthrene Anthracene Pyrene Benzo(b)fluoranthene

MSD - Naphthalene 1-Methylnaphthalene 2-Methylnaphthalene Acenapthene Phenanthrene Anthracene Fluoranthene Pyrene Benzo(a)anthracene

15. The relative percent difference between the matrix spike and matrix spike duplicate was outside the project specified limit for the following analytes:

VOC – SW-846-8260B

1,2,4-Trimethylbenzene 1,3,5-Trimethylbenzene Ethylbenzene Isopropylbenzene n-Propylbenzene p-Isopropyltoluene sec-Butylbenzene

FL-PRO

FL-PRO

16. The relative percent difference between the matrix spike and matrix spike duplicate was outside the subcontract laboratory's historical limit for the following analytes:

PAH by HPLC – SW-846-8310

Naphthalene 1-Methylnaphthalene 2-Methylnaphthalene Acenapthene

17. Project Specific QC is reported for all analyses.

Quality Assurance

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ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30017, Phone (770)449-8800, FAX (770)449-5477

FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: AC05535 **Accura Project #: 26563**

Client: CH2M HILL - CCI Date Sampled: 12/20/00

Client Contact: DAVID GARRITY Date Received: 12/21/00

Client Project Number: 154282 / CTO - 0029 Date Reported: 1/29/01

Client Project Name: NAS CECIL FIELD 103rd STREET GW SAMPLING Sample Matrix: WATER

Client Sample ID: 029-SMW01-Q4-00-07

ANALYSIS: Metals - Lead Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 12/28/00 Date Analyzed: 1/2/01 Result Units: mg/L

Analyte Name	Analytical Results	Reported Detection Limits
Lead	0.11	0.010

ANALYSIS: PAH's by HPLC Method Ref: 8310

Date Ext/Dig/Prep: 12/26/00 Date Analyzed: 1/4/01 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
1-Methylnapthalene	<RDL	1.02
2-Methylnapthalene	<RDL	1.02
Acenaphthene	<RDL	1.02
Acenaphthylene	<RDL	2.04
Anthracene	<RDL	0.67
Benzo(a)anthracene	<RDL	0.13
Benzo(a)pyrene	<RDL	0.10
Benzo(b)fluoranthene	<RDL	0.18
Benzo(g,h,i)perylene	<RDL	0.78
Benzo(k)fluoranthene	<RDL	0.17
Chrysene	<RDL	0.15
Dibenzo(a,h)anthracene	<RDL	0.31
Fluoranthene	<RDL	0.21
Fluorene	<RDL	0.51
Indeno(1,2,3-cd)pyrene	<RDL	0.44
Naphthalene	<RDL	1.02
Phenanthrene	<RDL	0.65
Pyrene	<RDL	0.28

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 12/26/00 Date Analyzed: 1/2/01 Result Units: mg/L

Analyte Name	Analytical Results	Reported Detection Limits
Petroleum Range Organics (PRO)	0.47JB	1.0

ANALYSIS: VOC's Navy (25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 12/29/00 Date Analyzed: 12/29/00 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RDL	2.5
1,1,1-Trichloroethane	<RDL	4
1,1,2,2-Tetrachloroethane	<RDL	2

1,1,2-Trichloroethane	<RDL	5
1,1-Dichloroethane	<RDL	2
1,1-Dichloroethene	<RDL	6
1,2,3-Trichlorobenzene	0.91 J	1.5
1,2,3-Trichloropropane	<RDL	16
1,2,4-Trichlorobenzene	0.57 J	2
1,2,4-Trimethylbenzene	<RDL	6.5
1,2-Dibromo-3-chloropropane	<RDL	13
1,2-Dichlorobenzene	<RDL	1.5
1,2-Dichloroethane	<RDL	3
1,2-Dichloropropane	<RDL	2
1,2-Ethylene Dibromide	<RDL	3
1,3,5-Trimethylbenzene	<RDL	2.5
1,3-Dichlorobenzene	<RDL	6
1,3-Dichloropropane	<RDL	2
1,4-Dichlorobenzene	<RDL	1.5
2,2-Dichloropropane	<RDL	17.5
2-Chlorotoluene	<RDL	2
4-Chlorotoluene	<RDL	3
Benzene	<RDL	2
Bromobenzene	<RDL	1.5
Bromochloromethane	<RDL	2
Bromodichloromethane	<RDL	4
Bromoform	<RDL	6
Bromomethane	<RDL	5.5
Carbon tetrachloride	<RDL	10.5
Chlorobenzene	<RDL	2
Chloroethane	<RDL	5
Chloroform	<RDL	1.5
Chloromethane	<RDL	6.5
cis-1,2-Dichloroethene	<RDL	6
cis-1,3-Dichloropropene	<RDL	5
Dibromochloromethane	<RDL	2.5
Dibromomethane	<RDL	12
Dichlorodifluoromethane	<RDL	5
Ethylbenzene	<RDL	3
Hexachlorobutadiene	<RDL	5.5
Isopropylbenzene	<RDL	2.5
Methylene chloride	<RDL	1.5
n-Butylbenzene	<RDL	5.5
n-Propylbenzene	<RDL	2
Naphthalene	2.0 JB	2
p-Isopropyltoluene	<RDL	6
Sec-Butylbenzene	<RDL	6.5
Styrene	<RDL	2
Tert-Butylbenzene	<RDL	7
Tetrachloroethylene	<RDL	7
Toluene	<RDL	5.5
Total Xylenes	<RDL	5
trans-1,2-Dichloroethene	<RDL	3
trans-1,3-Dichloropropene	<RDL	5
Trichloroethylene	<RDL	5

Trichlorofluoromethane	<RDL	4
Vinyl chloride	<RDL	5.5

ANALYSIS: X PAH Surrogates (Liquid) Method Ref: 8310

Date Ext/Dig/Prep: 12/26/00 Date Analyzed: 1/4/01 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
p-terphenyl d14 (Range 20-140)	30	

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 12/26/00 Date Analyzed: 1/2/01 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
C(39) (Range 42-193)	15	
o-Terphenyl (Range 82-142)	59	

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 12/29/00 Date Analyzed: 12/29/00 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
1,2-Dichloroethane-d4 (78-128)	82	
4-Bromofluorobenzene (86-112)	94	
Toluene-d8 (84-108)	92	

Accura Analytical Laboratory, Inc.

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30017, Phone (770)449-8800, FAX (770)449-5477

FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: AC05536 **Accura Project #: 26563**

Client: CH2M HILL - CCI Date Sampled: 12/20/00

Client Contact: DAVID GARRITY Date Received: 12/21/00

Client Project Number: 154282 / CTO - 0029 Date Reported: 1/29/01

Client Project Name: NAS CECIL FIELD 103rd STREET GW SAMPLING Sample Matrix: WATER

Client Sample ID: 029-SMW02-Q4-00-07

ANALYSIS: Metals - Lead Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 12/28/00 Date Analyzed: 1/2/01 Result Units: mg/L

Analyte Name	Analytical Results	Reported Detection Limits
Lead	0.17	0.010

ANALYSIS: PAH's by HPLC Method Ref: 8310

Date Ext/Dig/Prep: 12/26/00 Date Analyzed: 1/4/01 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
1-Methylnapthalene	<RDL	1.01
2-Methylnapthalene	<RDL	1.01
Acenaphthene	<RDL	1.01
Acenaphthylene	<RDL	2.02
Anthracene	<RDL	0.67
Benzo(a)anthracene	<RDL	0.13
Benzo(a)pyrene	<RDL	0.10
Benzo(b)fluoranthene	<RDL	0.18
Benzo(g,h,i)perylene	<RDL	0.77
Benzo(k)fluoranthene	<RDL	0.17
Chrysene	<RDL	0.15
Dibenzo(a,h)anthracene	<RDL	0.30
Fluoranthene	<RDL	0.21
Fluorene	<RDL	0.51
Indeno(1,2,3-cd)pyrene	<RDL	0.43
Naphthalene	<RDL	1.01
Phenanthrene	<RDL	0.65
Pyrene	<RDL	0.27

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 12/26/00 Date Analyzed: 1/2/01 Result Units: mg/L

Analyte Name	Analytical Results	Reported Detection Limits
Petroleum Range Organics (PRO)	0.58JB	1.0

ANALYSIS: VOC's Navy (25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 12/30/00 Date Analyzed: 12/30/00 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RDL	2.5
1,1,1-Trichloroethane	<RDL	4
1,1,2,2-Tetrachloroethane	<RDL	2

1,1,2-Trichloroethane	<RDL	5
1,1-Dichloroethane	<RDL	2
1,1-Dichloroethene	<RDL	6
1,2,3-Trichlorobenzene	<RDL	1.5
1,2,3-Trichloropropane	<RDL	16
1,2,4-Trichlorobenzene	<RDL	2
1,2,4-Trimethylbenzene	0.64 J	6.5
1,2-Dibromo-3-chloropropane	<RDL	13
1,2-Dichlorobenzene	<RDL	1.5
1,2-Dichloroethane	<RDL	3
1,2-Dichloropropane	<RDL	2
1,2-Ethylene Dibromide	<RDL	3
1,3,5-Trimethylbenzene	<RDL	2.5
1,3-Dichlorobenzene	<RDL	6
1,3-Dichloropropane	<RDL	2
1,4-Dichlorobenzene	<RDL	1.5
2,2-Dichloropropane	<RDL	17.5
2-Chlorotoluene	<RDL	2
4-Chlorotoluene	<RDL	3
Benzene	<RDL	2
Bromobenzene	<RDL	1.5
Bromochloromethane	<RDL	2
Bromodichloromethane	<RDL	4
Bromoform	<RDL	6
Bromomethane	<RDL	5.5
Carbon tetrachloride	<RDL	10.5
Chlorobenzene	<RDL	2
Chloroethane	<RDL	5
Chloroform	<RDL	1.5
Chloromethane	<RDL	6.5
cis-1,2-Dichloroethene	<RDL	6
cis-1,3-Dichloropropene	<RDL	5
Dibromochloromethane	<RDL	2.5
Dibromomethane	<RDL	12
Dichlorodifluoromethane	<RDL	5
Ethylbenzene	<RDL	3
Hexachlorobutadiene	<RDL	5.5
Isopropylbenzene	<RDL	2.5
Methylene chloride	<RDL	1.5
n-Butylbenzene	<RDL	5.5
n-Propylbenzene	<RDL	2
Naphthalene	1.5 JB	2
p-Isopropyltoluene	<RDL	6
Sec-Butylbenzene	<RDL	6.5
Styrene	<RDL	2
Tert-Butylbenzene	<RDL	7
Tetrachloroethylene	<RDL	7
Toluene	<RDL	5.5
Total Xylenes	<RDL	5
trans-1,2-Dichloroethene	<RDL	3
trans-1,3-Dichloropropene	<RDL	5
Trichloroethylene	<RDL	5

Trichlorofluoromethane	<RDL	4
Vinyl chloride	<RDL	5.5

ANALYSIS: X PAH Surrogates (Liquid) Method Ref: 8310

Date Ext/Dig/Prep: 12/26/00 Date Analyzed: 1/4/01 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
p-terphenyl d14 (Range 20-140)	33	

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 12/26/00 Date Analyzed: 1/2/01 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
C(39) (Range 42-193)	6	
o-Terphenyl (Range 82-142)	61	

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 12/30/00 Date Analyzed: 12/30/00 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
1,2-Dichloroethane-d4 (78-128)	85	
4-Bromofluorobenzene (86-112)	93	
Toluene-d8 (84-108)	96	

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LABORATORY REPORT

Accura Sample ID #: AC05537 **Accura Project #: 26563**

Client: CH2M HILL - CCI Date Sampled: 12/20/00

Client Contact: DAVID GARRITY Date Received: 12/21/00

Client Project Number: 154282 / CTO - 0029 Date Reported: 1/29/01

Client Project Name: NAS CECIL FIELD 103rd STREET GW SAMPLING Sample Matrix: WATER

Client Sample ID: 029-SMW03-Q4-00-07

ANALYSIS: Metals - Lead Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 12/28/00 Date Analyzed: 1/2/01 Result Units: mg/L

Analyte Name	Analytical Results	Reported Detection Limits
Lead	<RDL	0.010

ANALYSIS: PAH's by HPLC Method Ref: 8310

Date Ext/Dig/Prep: 12/26/00 Date Analyzed: 1/4/01 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
1-Methylnapthalene	<RDL	1.02
2-Methylnapthalene	<RDL	1.02
Acenaphthene	<RDL	1.02
Acenaphthylene	<RDL	2.04
Anthracene	<RDL	0.67
Benzo(a)anthracene	<RDL	0.13
Benzo(a)pyrene	<RDL	0.10
Benzo(b)fluoranthene	<RDL	0.18
Benzo(g,h,i)perylene	<RDL	0.78
Benzo(k)fluoranthene	<RDL	0.17
Chrysene	<RDL	0.15
Dibenzo(a,h)anthracene	<RDL	0.31
Fluoranthene	<RDL	0.21
Fluorene	<RDL	0.51
Indeno(1,2,3-cd)pyrene	<RDL	0.44
Naphthalene	<RDL	1.02
Phenanthrene	<RDL	0.65
Pyrene	<RDL	0.28

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 12/26/00 Date Analyzed: 1/3/01 Result Units: mg/L

Analyte Name	Analytical Results	Reported Detection Limits
Petroleum Range Organics (PRO)	0.44JB	1.0

ANALYSIS: VOC's Navy (25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 12/29/00 Date Analyzed: 12/29/00 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RDL	2.5
1,1,1-Trichloroethane	<RDL	4
1,1,2,2-Tetrachloroethane	<RDL	2

1,1,2-Trichloroethane	<RDL	5
1,1-Dichloroethane	<RDL	2
1,1-Dichloroethene	<RDL	6
1,2,3-Trichlorobenzene	<RDL	1.5
1,2,3-Trichloropropane	<RDL	16
1,2,4-Trichlorobenzene	<RDL	2
1,2,4-Trimethylbenzene	<RDL	6.5
1,2-Dibromo-3-chloropropane	<RDL	13
1,2-Dichlorobenzene	<RDL	1.5
1,2-Dichloroethane	<RDL	3
1,2-Dichloropropane	<RDL	2
1,2-Ethylene Dibromide	<RDL	3
1,3,5-Trimethylbenzene	<RDL	2.5
1,3-Dichlorobenzene	<RDL	6
1,3-Dichloropropane	<RDL	2
1,4-Dichlorobenzene	<RDL	1.5
2,2-Dichloropropane	<RDL	17.5
2-Chlorotoluene	<RDL	2
4-Chlorotoluene	<RDL	3
Benzene	<RDL	2
Bromobenzene	<RDL	1.5
Bromochloromethane	<RDL	2
Bromodichloromethane	<RDL	4
Bromoform	<RDL	6
Bromomethane	<RDL	5.5
Carbon tetrachloride	<RDL	10.5
Chlorobenzene	<RDL	2
Chloroethane	<RDL	5
Chloroform	<RDL	1.5
Chloromethane	<RDL	6.5
cis-1,2-Dichloroethene	<RDL	6
cis-1,3-Dichloropropene	<RDL	5
Dibromochloromethane	<RDL	2.5
Dibromomethane	<RDL	12
Dichlorodifluoromethane	<RDL	5
Ethylbenzene	<RDL	3
Hexachlorobutadiene	<RDL	5.5
Isopropylbenzene	<RDL	2.5
Methylene chloride	<RDL	1.5
n-Butylbenzene	<RDL	5.5
n-Propylbenzene	<RDL	2
Naphthalene	1.4 JB	2
p-Isopropyltoluene	<RDL	6
Sec-Butylbenzene	<RDL	6.5
Styrene	<RDL	2
Tert-Butylbenzene	<RDL	7
Tetrachloroethylene	<RDL	7
Toluene	<RDL	5.5
Total Xylenes	<RDL	5
trans-1,2-Dichloroethene	<RDL	3
trans-1,3-Dichloropropene	<RDL	5
Trichloroethylene	<RDL	5

Trichlorofluoromethane	<RDL	4
Vinyl chloride	<RDL	5.5

ANALYSIS: X PAH Surrogates (Liquid) Method Ref: 8310

Date Ext/Dig/Prep: 12/26/00 Date Analyzed: 1/4/01 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
p-terphenyl d14 (Range 20-140)	53	

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 12/26/00 Date Analyzed: 1/3/01 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
C(39) (Range 42-193)	10	
o-Terphenyl (Range 82-142)	89	

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 12/29/00 Date Analyzed: 12/29/00 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
1,2-Dichloroethane-d4 (78-128)	98	
4-Bromofluorobenzene (86-112)	98	
Toluene-d8 (84-108)	92	

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LABORATORY REPORT

Accura Sample ID #: AC05538 **Accura Project #: 26563**

Client: CH2M HILL - CCI Date Sampled: 12/20/00

Client Contact: DAVID GARRITY Date Received: 12/21/00

Client Project Number: 154282 / CTO - 0029 Date Reported: 1/29/01

Client Project Name: NAS CECIL FIELD 103rd STREET GW SAMPLING Sample Matrix: WATER

Client Sample ID: 029-SMW07-Q4-00-07

ANALYSIS: Metals - Lead Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 12/28/00 Date Analyzed: 1/2/01 Result Units: mg/L

Analyte Name	Analytical Results	Reported Detection Limits
Lead	0.17	0.010

ANALYSIS: PAH's by HPLC Method Ref: 8310

Date Ext/Dig/Prep: 12/26/00 Date Analyzed: 1/4/01 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
1-Methylnapthalene	<RDL	11.1
2-Methylnapthalene	<RDL	11.1
Acenaphthene	<RDL	11.1
Acenaphthylene	<RDL	22.2
Anthracene	<RDL	7.33
Benzo(a)anthracene	<RDL	1.44
Benzo(a)pyrene	<RDL	1.11
Benzo(b)fluoranthene	<RDL	2.00
Benzo(g,h,i)perylene	<RDL	8.44
Benzo(k)fluoranthene	<RDL	1.89
Chrysene	<RDL	1.67
Dibenzo(a,h)anthracene	<RDL	3.33
Fluoranthene	<RDL	2.33
Fluorene	<RDL	5.56
Indeno(1,2,3-cd)pyrene	<RDL	4.78
Naphthalene	<RDL	11.1
Phenanthrene	<RDL	7.11
Pyrene	<RDL	3.00

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 12/26/00 Date Analyzed: 1/2/01 Result Units: mg/L

Analyte Name	Analytical Results	Reported Detection Limits
Petroleum Range Organics (PRO)	0.67JB	1.0

ANALYSIS: VOC's Navy (25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 12/29/00 Date Analyzed: 12/29/00 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RDL	2.5
1,1,1-Trichloroethane	<RDL	4
1,1,2,2-Tetrachloroethane	<RDL	2

1,1,2-Trichloroethane	<RDL	5
1,1-Dichloroethane	<RDL	2
1,1-Dichloroethene	<RDL	6
1,2,3-Trichlorobenzene	<RDL	1.5
1,2,3-Trichloropropane	<RDL	16
1,2,4-Trichlorobenzene	<RDL	2
1,2,4-Trimethylbenzene	<RDL	6.5
1,2-Dibromo-3-chloropropane	<RDL	13
1,2-Dichlorobenzene	<RDL	1.5
1,2-Dichloroethane	<RDL	3
1,2-Dichloropropane	<RDL	2
1,2-Ethylene Dibromide	<RDL	3
1,3,5-Trimethylbenzene	<RDL	2.5
1,3-Dichlorobenzene	<RDL	6
1,3-Dichloropropane	<RDL	2
1,4-Dichlorobenzene	<RDL	1.5
2,2-Dichloropropane	<RDL	17.5
2-Chlorotoluene	<RDL	2
4-Chlorotoluene	<RDL	3
Benzene	<RDL	2
Bromobenzene	<RDL	1.5
Bromochloromethane	<RDL	2
Bromodichloromethane	<RDL	4
Bromoform	<RDL	6
Bromomethane	<RDL	5.5
Carbon tetrachloride	<RDL	10.5
Chlorobenzene	<RDL	2
Chloroethane	<RDL	5
Chloroform	<RDL	1.5
Chloromethane	<RDL	6.5
cis-1,2-Dichloroethene	<RDL	6
cis-1,3-Dichloropropene	<RDL	5
Dibromochloromethane	<RDL	2.5
Dibromomethane	<RDL	12
Dichlorodifluoromethane	<RDL	5
Ethylbenzene	<RDL	3
Hexachlorobutadiene	<RDL	5.5
Isopropylbenzene	<RDL	2.5
Methylene chloride	<RDL	1.5
n-Butylbenzene	<RDL	5.5
n-Propylbenzene	<RDL	2
Naphthalene	1.1 JB	2
p-Isopropyltoluene	<RDL	6
Sec-Butylbenzene	<RDL	6.5
Styrene	<RDL	2
Tert-Butylbenzene	<RDL	7
Tetrachloroethylene	<RDL	7
Toluene	<RDL	5.5
Total Xylenes	<RDL	5
trans-1,2-Dichloroethene	<RDL	3
trans-1,3-Dichloropropene	<RDL	5
Trichloroethylene	<RDL	5

Trichlorofluoromethane	<RDL	4
Vinyl chloride	<RDL	5.5

ANALYSIS: X PAH Surrogates (Liquid) Method Ref: 8310

Date Ext/Dig/Prep: 12/26/00 Date Analyzed: 1/4/01 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
p-terphenyl d14 (Range 20-140)	19	

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 12/26/00 Date Analyzed: 1/2/01 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
C(39) (Range 42-193)	16	
o-Terphenyl (Range 82-142)	35	

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 12/29/00 Date Analyzed: 12/29/00 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
1,2-Dichloroethane-d4 (78-128)	95	
4-Bromofluorobenzene (86-112)	96	
Toluene-d8 (84-108)	94	

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LABORATORY REPORT

Accura Sample ID #: AC05539 **Accura Project #: 26563**

Client: CH2M HILL - CCI
Client Contact: DAVID GARRITY
Client Project Number: 154282 / CTO - 0029
Client Project Name: NAS CECIL FIELD 103rd STREET GW SAMPLING
Client Sample ID: 029-SMW10-Q4-00-07

Date Sampled: 12/20/00
Date Received: 12/21/00
Date Reported: 1/29/01
Sample Matrix: WATER

ANALYSIS: Metals - Lead Method Ref: 3010A/6010B
Date Ext/Dig/Prep: 12/28/00 Date Analyzed: 1/2/01 Result Units: mg/L

Analyte Name	Analytical Results	Reported Detection Limits
Lead	0.34	0.010

ANALYSIS: PAH's by HPLC Method Ref: 8310
Date Ext/Dig/Prep: 12/26/00 Date Analyzed: 1/4/01 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
1-Methylnapthalene	<RDL	1.01
2-Methylnapthalene	<RDL	1.01
Acenaphthene	<RDL	1.01
Acenaphthylene	<RDL	2.02
Anthracene	<RDL	0.67
Benzo(a)anthracene	<RDL	0.13
Benzo(a)pyrene	<RDL	0.10
Benzo(b)fluoranthene	<RDL	0.18
Benzo(g,h,i)perylene	<RDL	0.77
Benzo(k)fluoranthene	<RDL	0.17
Chrysene	<RDL	0.15
Dibenzo(a,h)anthracene	<RDL	0.30
Fluoranthene	<RDL	0.21
Fluorene	<RDL	0.51
Indeno(1,2,3-cd)pyrene	<RDL	0.43
Naphthalene	<RDL	1.01
Phenanthrene	<RDL	0.65
Pyrene	<RDL	0.27

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO
Date Ext/Dig/Prep: 12/26/00 Date Analyzed: 1/2/01 Result Units: mg/L

Analyte Name	Analytical Results	Reported Detection Limits
Petroleum Range Organics (PRO)	0.39JB	1.0

ANALYSIS: VOC's Navy (25 ml purge) Method Ref: 8260B
Date Ext/Dig/Prep: 12/29/00 Date Analyzed: 12/29/00 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RDL	2.5
1,1,1-Trichloroethane	<RDL	4
1,1,2,2-Tetrachloroethane	<RDL	2

1,1,2-Trichloroethane	<RDL	5
1,1-Dichloroethane	<RDL	2
1,1-Dichloroethene	<RDL	6
1,2,3-Trichlorobenzene	<RDL	1.5
1,2,3-Trichloropropane	<RDL	16
1,2,4-Trichlorobenzene	<RDL	2
1,2,4-Trimethylbenzene	<RDL	6.5
1,2-Dibromo-3-chloropropane	<RDL	13
1,2-Dichlorobenzene	<RDL	1.5
1,2-Dichloroethane	<RDL	3
1,2-Dichloropropane	<RDL	2
1,2-Ethylene Dibromide	<RDL	3
1,3,5-Trimethylbenzene	<RDL	2.5
1,3-Dichlorobenzene	<RDL	6
1,3-Dichloropropane	<RDL	2
1,4-Dichlorobenzene	<RDL	1.5
2,2-Dichloropropane	<RDL	17.5
2-Chlorotoluene	<RDL	2
4-Chlorotoluene	<RDL	3
Benzene	<RDL	2
Bromobenzene	<RDL	1.5
Bromochloromethane	<RDL	2
Bromodichloromethane	<RDL	4
Bromoform	<RDL	6
Bromomethane	<RDL	5.5
Carbon tetrachloride	<RDL	10.5
Chlorobenzene	<RDL	2
Chloroethane	<RDL	5
Chloroform	<RDL	1.5
Chloromethane	<RDL	6.5
cis-1,2-Dichloroethene	<RDL	6
cis-1,3-Dichloropropene	<RDL	5
Dibromochloromethane	<RDL	2.5
Dibromomethane	<RDL	12
Dichlorodifluoromethane	<RDL	5
Ethylbenzene	<RDL	3
Hexachlorobutadiene	<RDL	5.5
Isopropylbenzene	<RDL	2.5
Methylene chloride	<RDL	1.5
n-Butylbenzene	<RDL	5.5
n-Propylbenzene	<RDL	2
Naphthalene	1.0 JB	2
p-Isopropyltoluene	<RDL	6
Sec-Butylbenzene	<RDL	6.5
Styrene	<RDL	2
Tert-Butylbenzene	<RDL	7
Tetrachloroethylene	<RDL	7
Toluene	<RDL	5.5
Total Xylenes	<RDL	5
trans-1,2-Dichloroethene	<RDL	3
trans-1,3-Dichloropropene	<RDL	5
Trichloroethylene	<RDL	5

Trichlorofluoromethane	<RDL	4
Vinyl chloride	<RDL	5.5

ANALYSIS: X PAH Surrogates (Liquid) Method Ref: 8310

Date Ext/Dig/Prep: 12/26/00 Date Analyzed: 1/4/01 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
p-terphenyl d14 (Range 20-140)	52	

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 12/26/00 Date Analyzed: 1/2/01 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
C(39) (Range 42-193)	6	
o-Terphenyl (Range 82-142)	57	

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 12/29/00 Date Analyzed: 12/29/00 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
1,2-Dichloroethane-d4 (78-128)	87	
4-Bromofluorobenzene (86-112)	95	
Toluene-d8 (84-108)	93	

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LABORATORY REPORT

Accura Sample ID #: AC05540 **Accura Project #: 26563**

Client: CH2M HILL - CCI Date Sampled: 12/20/00

Client Contact: DAVID GARRITY Date Received: 12/21/00

Client Project Number: 154282 / CTO - 0029 Date Reported: 1/29/01

Client Project Name: NAS CECIL FIELD 103rd STREET GW SAMPLING Sample Matrix: WATER

Client Sample ID: 029-SMW11-Q4-00-07

ANALYSIS: Metals - Lead Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 1/3/01 Date Analyzed: 1/4/01 Result Units: mg/L

Analyte Name	Analytical Results	Reported Detection Limits
Lead	0.14	0.010

ANALYSIS: PAH's by HPLC Method Ref: 8310

Date Ext/Dig/Prep: 12/26/00 Date Analyzed: 1/4/01 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
1-Methylnapthalene	6	1.01
2-Methylnapthalene	5	1.01
Acenaphthene	<RDL	1.01
Acenaphthylene	<RDL	2.02
Anthracene	<RDL	0.67
Benzo(a)anthracene	<RDL	0.13
Benzo(a)pyrene	<RDL	0.10
Benzo(b)fluoranthene	<RDL	0.18
Benzo(g,h,i)perylene	<RDL	0.77
Benzo(k)fluoranthene	<RDL	0.17
Chrysene	<RDL	0.15
Dibenzo(a,h)anthracene	<RDL	0.30
Fluoranthene	<RDL	0.21
Fluorene	<RDL	0.51
Indeno(1,2,3-cd)pyrene	<RDL	0.43
Naphthalene	11	1.01
Phenanthrene	<RDL	0.65
Pyrene	<RDL	0.27

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 12/26/00 Date Analyzed: 1/3/01 Result Units: mg/L

Analyte Name	Analytical Results	Reported Detection Limits
Petroleum Range Organics (PRO)	15	5.0

ANALYSIS: VOC's Navy (25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 12/29/00 Date Analyzed: 12/29/00 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RDL	2.5
1,1,1-Trichloroethane	<RDL	4
1,1,2,2-Tetrachloroethane	<RDL	2

1,1,2-Trichloroethane	<RDL	5
1,1-Dichloroethane	<RDL	2
1,1-Dichloroethene	<RDL	6
1,2,3-Trichlorobenzene	1.2 J	1.5
1,2,3-Trichloropropane	<RDL	16
1,2,4-Trichlorobenzene	0.78 J	2
1,2,4-Trimethylbenzene	87	33
1,2-Dibromo-3-chloropropane	<RDL	13
1,2-Dichlorobenzene	<RDL	1.5
1,2-Dichloroethane	<RDL	3
1,2-Dichloropropane	<RDL	2
1,2-Ethylene Dibromide	<RDL	3
1,3,5-Trimethylbenzene	22	2.5
1,3-Dichlorobenzene	<RDL	6
1,3-Dichloropropane	<RDL	2
1,4-Dichlorobenzene	<RDL	1.5
2,2-Dichloropropane	<RDL	17.5
2-Chlorotoluene	<RDL	2
4-Chlorotoluene	<RDL	3
Benzene	<RDL	2
Bromobenzene	<RDL	1.5
Bromochloromethane	<RDL	2
Bromodichloromethane	<RDL	4
Bromoform	<RDL	6
Bromomethane	<RDL	5.5
Carbon tetrachloride	<RDL	10.5
Chlorobenzene	<RDL	2
Chloroethane	<RDL	5
Chloroform	<RDL	1.5
Chloromethane	<RDL	6.5
cis-1,2-Dichloroethene	<RDL	6
cis-1,3-Dichloropropene	<RDL	5
Dibromochloromethane	<RDL	2.5
Dibromomethane	<RDL	12
Dichlorodifluoromethane	<RDL	5
Ethylbenzene	20	3
Hexachlorobutadiene	<RDL	5.5
Isopropylbenzene	8.0	2.5
Methylene chloride	<RDL	1.5
n-Butylbenzene	<RDL	5.5
n-Propylbenzene	8.3	2
Naphthalene	31 B	2
p-Isopropyltoluene	9.6	6
Sec-Butylbenzene	5.9 J	6.5
Styrene	<RDL	2
Tert-Butylbenzene	<RDL	7
Tetrachloroethylene	<RDL	7
Toluene	<RDL	5.5
Total Xylenes	10	5
trans-1,2-Dichloroethene	<RDL	3
trans-1,3-Dichloropropene	<RDL	5
Trichloroethylene	<RDL	5

Trichlorofluoromethane	<RDL	4
Vinyl chloride	<RDL	5.5

ANALYSIS: X PAH Surrogates (Liquid) Method Ref: 8310

Date Ext/Dig/Prep: 12/26/00 Date Analyzed: 1/4/01 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
p-terphenyl d14 (Range 20-140)	37	

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 12/26/00 Date Analyzed: 1/3/01 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
C(39) (Range 42-193)	18	
o-Terphenyl (Range 82-142)	57	

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 12/29/00 Date Analyzed: 12/29/00 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
1,2-Dichloroethane-d4 (78-128)	88	
4-Bromofluorobenzene (86-112)	100	
Toluene-d8 (84-108)	94	

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LABORATORY REPORT

Accura Sample ID #: AC05541 **Accura Project #: 26563**

Client: CH2M HILL - CCI
Client Contact: DAVID GARRITY
Client Project Number: 154282 / CTO - 0029
Client Project Name: NAS CECIL FIELD 103rd STREET GW SAMPLING
Client Sample ID: 029-DUP-Q4-00-07

Date Sampled: 12/20/00
Date Received: 12/21/00
Date Reported: 1/29/01
Sample Matrix: WATER

ANALYSIS: Metals - Lead Method Ref: 3010A/6010B
Date Ext/Dig/Prep: 12/28/00 Date Analyzed: 1/2/01 Result Units: mg/L

Analyte Name	Analytical Results	Reported Detection Limits
Lead	0.19	0.010

ANALYSIS: PAH's by HPLC Method Ref: 8310
Date Ext/Dig/Prep: 12/26/00 Date Analyzed: 1/4/01 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
1-Methylnapthalene	<RDL	1.01
2-Methylnapthalene	<RDL	1.01
Acenaphthene	<RDL	1.01
Acenaphthylene	<RDL	2.02
Anthracene	<RDL	0.67
Benzo(a)anthracene	<RDL	0.13
Benzo(a)pyrene	<RDL	0.10
Benzo(b)fluoranthene	<RDL	0.18
Benzo(g,h,i)perylene	<RDL	0.77
Benzo(k)fluoranthene	<RDL	0.17
Chrysene	<RDL	0.15
Dibenzo(a,h)anthracene	<RDL	0.30
Fluoranthene	<RDL	0.21
Fluorene	<RDL	0.51
Indeno(1,2,3-cd)pyrene	<RDL	0.43
Naphthalene	<RDL	1.01
Phenanthrene	<RDL	0.65
Pyrene	<RDL	0.27

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO
Date Ext/Dig/Prep: 12/26/00 Date Analyzed: 1/2/01 Result Units: mg/L

Analyte Name	Analytical Results	Reported Detection Limits
Petroleum Range Organics (PRO)	0.42JB	1.0

ANALYSIS: VOC's Navy (25 ml purge) Method Ref: 8260B
Date Ext/Dig/Prep: 12/29/00 Date Analyzed: 12/29/00 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RDL	2.5
1,1,1-Trichloroethane	<RDL	4
1,1,2,2-Tetrachloroethane	<RDL	2

1,1,2-Trichloroethane	<RDL	5
1,1-Dichloroethane	<RDL	2
1,1-Dichloroethene	<RDL	6
1,2,3-Trichlorobenzene	<RDL	1.5
1,2,3-Trichloropropane	<RDL	16
1,2,4-Trichlorobenzene	<RDL	2
1,2,4-Trimethylbenzene	<RDL	6.5
1,2-Dibromo-3-chloropropane	<RDL	13
1,2-Dichlorobenzene	<RDL	1.5
1,2-Dichloroethane	<RDL	3
1,2-Dichloropropane	<RDL	2
1,2-Ethylene Dibromide	<RDL	3
1,3,5-Trimethylbenzene	<RDL	2.5
1,3-Dichlorobenzene	<RDL	6
1,3-Dichloropropane	<RDL	2
1,4-Dichlorobenzene	<RDL	1.5
2,2-Dichloropropane	<RDL	17.5
2-Chlorotoluene	<RDL	2
4-Chlorotoluene	<RDL	3
Benzene	<RDL	2
Bromobenzene	<RDL	1.5
Bromochloromethane	<RDL	2
Bromodichloromethane	<RDL	4
Bromoform	<RDL	6
Bromomethane	<RDL	5.5
Carbon tetrachloride	<RDL	10.5
Chlorobenzene	<RDL	2
Chloroethane	<RDL	5
Chloroform	<RDL	1.5
Chloromethane	<RDL	6.5
cis-1,2-Dichloroethene	<RDL	6
cis-1,3-Dichloropropene	<RDL	5
Dibromochloromethane	<RDL	2.5
Dibromomethane	<RDL	12
Dichlorodifluoromethane	<RDL	5
Ethylbenzene	<RDL	3
Hexachlorobutadiene	<RDL	5.5
Isopropylbenzene	<RDL	2.5
Methylene chloride	<RDL	1.5
n-Butylbenzene	<RDL	5.5
n-Propylbenzene	<RDL	2
Naphthalene	1.0 JB	2
p-Isopropyltoluene	<RDL	6
Sec-Butylbenzene	<RDL	6.5
Styrene	<RDL	2
Tert-Butylbenzene	<RDL	7
Tetrachloroethylene	<RDL	7
Toluene	<RDL	5.5
Total Xylenes	<RDL	5
trans-1,2-Dichloroethene	<RDL	3
trans-1,3-Dichloropropene	<RDL	5
Trichloroethylene	<RDL	5

Trichlorofluoromethane	<RDL	4
Vinyl chloride	<RDL	5.5

ANALYSIS: X_PAH Surrogates (Liquid) Method Ref: 8310

Date Ext/Dig/Prep: 12/26/00 Date Analyzed: 1/4/01 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
p-terphenyl d14 (Range 20-140)	39	

ANALYSIS: X_PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 12/26/00 Date Analyzed: 1/2/01 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
C(39) (Range 42-193)	5	
o-Terphenyl (Range 82-142)	62	

ANALYSIS: X_VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 12/29/00 Date Analyzed: 12/29/00 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
1,2-Dichloroethane-d4 (78-128)	89	
4-Bromofluorobenzene (86-112)	94	
Toluene-d8 (84-108)	93	

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LABORATORY REPORT

Accura Sample ID #: AC05542 **Accura Project #: 26563**

Client: CH2M HILL - CCI
Client Contact: DAVID GARRITY
Client Project Number: 154282 / CTO - 0029
Client Project Name: NAS CECIL FIELD 103rd STREET GW SAMPLING
Client Sample ID: 029-EQB-Q4-00-07

Date Sampled: 12/20/00
Date Received: 12/21/00
Date Reported: 1/29/01
Sample Matrix: WATER

ANALYSIS: Metals - Lead Method Ref: 3010A/6010B
Date Ext/Dig/Prep: 12/28/00 Date Analyzed: 1/2/01 Result Units: mg/L

Analyte Name	Analytical Results	Reported Detection Limits
Lead	<RDL	0.010

ANALYSIS: PAH's by HPLC Method Ref: 8310
Date Ext/Dig/Prep: 12/26/00 Date Analyzed: 1/4/01 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
1-Methylnapthalene	<RDL	1.01
2-Methylnapthalene	<RDL	1.01
Acenaphthene	<RDL	1.01
Acenaphthylene	<RDL	2.02
Anthracene	<RDL	0.67
Benzo(a)anthracene	<RDL	0.13
Benzo(a)pyrene	<RDL	0.10
Benzo(b)fluoranthene	<RDL	0.18
Benzo(g,h,i)perylene	<RDL	0.77
Benzo(k)fluoranthene	<RDL	0.17
Chrysene	<RDL	0.15
Dibenzo(a,h)anthracene	<RDL	0.30
Fluoranthene	<RDL	0.21
Fluorene	<RDL	0.51
Indeno(1,2,3-cd)pyrene	<RDL	0.43
Naphthalene	<RDL	1.01
Phenanthrene	<RDL	0.65
Pyrene	<RDL	0.27

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO
Date Ext/Dig/Prep: 12/26/00 Date Analyzed: 1/3/01 Result Units: mg/L

Analyte Name	Analytical Results	Reported Detection Limits
Petroleum Range Organics (PRO)	0.38JB	1.0

ANALYSIS: VOC's Navy (25 ml purge) Method Ref: 8260B
Date Ext/Dig/Prep: 12/29/00 Date Analyzed: 12/29/00 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RDL	2.5
1,1,1-Trichloroethane	<RDL	4
1,1,2,2-Tetrachloroethane	<RDL	2

1,1,2-Trichloroethane	<RDL	5
1,1-Dichloroethane	<RDL	2
1,1-Dichloroethene	<RDL	6
1,2,3-Trichlorobenzene	<RDL	1.5
1,2,3-Trichloropropane	<RDL	16
1,2,4-Trichlorobenzene	<RDL	2
1,2,4-Trimethylbenzene	<RDL	6.5
1,2-Dibromo-3-chloropropane	<RDL	13
1,2-Dichlorobenzene	<RDL	1.5
1,2-Dichloroethane	<RDL	3
1,2-Dichloropropane	<RDL	2
1,2-Ethylene Dibromide	<RDL	3
1,3,5-Trimethylbenzene	<RDL	2.5
1,3-Dichlorobenzene	<RDL	6
1,3-Dichloropropane	<RDL	2
1,4-Dichlorobenzene	<RDL	1.5
2,2-Dichloropropane	<RDL	17.5
2-Chlorotoluene	<RDL	2
4-Chlorotoluene	<RDL	3
Benzene	<RDL	2
Bromobenzene	<RDL	1.5
Bromochloromethane	<RDL	2
Bromodichloromethane	<RDL	4
Bromoform	<RDL	6
Bromomethane	<RDL	5.5
Carbon tetrachloride	<RDL	10.5
Chlorobenzene	<RDL	2
Chloroethane	<RDL	5
Chloroform	1.1 J	1.5
Chloromethane	<RDL	6.5
cis-1,2-Dichloroethene	<RDL	6
cis-1,3-Dichloropropene	<RDL	5
Dibromochloromethane	<RDL	2.5
Dibromomethane	<RDL	12
Dichlorodifluoromethane	<RDL	5
Ethylbenzene	<RDL	3
Hexachlorobutadiene	<RDL	5.5
Isopropylbenzene	<RDL	2.5
Methylene chloride	<RDL	1.5
n-Butylbenzene	<RDL	5.5
n-Propylbenzene	<RDL	2
Naphthalene	1.0 JB	2
p-Isopropyltoluene	<RDL	6
Sec-Butylbenzene	<RDL	6.5
Styrene	<RDL	2
Tert-Butylbenzene	<RDL	7
Tetrachloroethylene	<RDL	7
Toluene	<RDL	5.5
Total Xylenes	<RDL	5
trans-1,2-Dichloroethene	<RDL	3
trans-1,3-Dichloropropene	<RDL	5
Trichloroethylene	<RDL	5

Trichlorofluoromethane	<RDL	4
Vinyl chloride	<RDL	5.5

ANALYSIS: X PAH Surrogates (Liquid) Method Ref: 8310

Date Ext/Dig/Prep: 12/26/00 Date Analyzed: 1/4/01 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
p-terphenyl d14 (Range 20-140)	75	

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 12/26/00 Date Analyzed: 1/3/01 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
C(39) (Range 42-193)	5	
o-Terphenyl (Range 82-142)	88	

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 12/29/00 Date Analyzed: 12/29/00 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
1,2-Dichloroethane-d4 (78-128)	96	
4-Bromofluorobenzene (86-112)	93	
Toluene-d8 (84-108)	92	

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LABORATORY REPORT

Accura Sample ID #: AC05543 **Accura Project #: 26563**

Client: CH2M HILL - CCI Date Sampled: 12/20/00

Client Contact: DAVID GARRITY Date Received: 12/21/00

Client Project Number: 154282 / CTO - 0029 Date Reported: 1/29/01

Client Project Name: NAS CECIL FIELD 103rd STREET GW SAMPLING Sample Matrix: WATER

Client Sample ID: TRIP BLANK

ANALYSIS: VOC's Navy (25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 12/29/00 Date Analyzed: 12/29/00 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RDL	2.5
1,1,1-Trichloroethane	<RDL	4
1,1,2,2-Tetrachloroethane	<RDL	2
1,1,2-Trichloroethane	<RDL	5
1,1-Dichloroethane	<RDL	2
1,1-Dichloroethene	<RDL	6
1,2,3-Trichlorobenzene	<RDL	1.5
1,2,3-Trichloropropane	<RDL	16
1,2,4-Trichlorobenzene	<RDL	2
1,2,4-Trimethylbenzene	<RDL	6.5
1,2-Dibromo-3-chloropropane	<RDL	13
1,2-Dichlorobenzene	<RDL	1.5
1,2-Dichloroethane	<RDL	3
1,2-Dichloropropane	<RDL	2
1,2-Ethylene Dibromide	<RDL	3
1,3,5-Trimethylbenzene	<RDL	2.5
1,3-Dichlorobenzene	<RDL	6
1,3-Dichloropropane	<RDL	2
1,4-Dichlorobenzene	<RDL	1.5
2,2-Dichloropropane	<RDL	17.5
2-Chlorotoluene	<RDL	2
4-Chlorotoluene	<RDL	3
Benzene	<RDL	2
Bromobenzene	<RDL	1.5
Bromochloromethane	<RDL	2
Bromodichloromethane	<RDL	4
Bromoform	<RDL	6
Bromomethane	<RDL	5.5
Carbon tetrachloride	<RDL	10.5
Chlorobenzene	<RDL	2
Chloroethane	<RDL	5
Chloroform	<RDL	1.5
Chloromethane	<RDL	6.5
cis-1,2-Dichloroethene	<RDL	6
cis-1,3-Dichloropropene	<RDL	5

Dibromochloromethane	<RDL	2.5
Dibromomethane	<RDL	12
Dichlorodifluoromethane	<RDL	5
Ethylbenzene	<RDL	3
Hexachlorobutadiene	<RDL	5.5
Isopropylbenzene	<RDL	2.5
Methylene chloride	0.86 J	1.5
n-Butylbenzene	<RDL	5.5
n-Propylbenzene	<RDL	2
Naphthalene	0.98 JB	2
p-Isopropyltoluene	<RDL	6
Sec-Butylbenzene	<RDL	6.5
Styrene	<RDL	2
Tert-Butylbenzene	<RDL	7
Tetrachloroethylene	<RDL	7
Toluene	<RDL	5.5
Total Xylenes	<RDL	5
trans-1,2-Dichloroethene	<RDL	3
trans-1,3-Dichloropropene	<RDL	5
Trichloroethylene	<RDL	5
Trichlorofluoromethane	<RDL	4
Vinyl chloride	<RDL	5.5

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 12/29/00 Date Analyzed: 12/29/00 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
1,2-Dichloroethane-d4 (78-128)	87	
4-Bromofluorobenzene (86-112)	95	
Toluene-d8 (84-108)	95	

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LABORATORY REPORT

Accura Sample ID #: AC05544 **Accura Project #: 26563**

Client: CH2M HILL - CCI Date Sampled: 12/21/00

Client Contact: DAVID GARRITY Date Received: 12/21/00

Client Project Number: 154282 / CTO - 0029 Date Reported: 1/29/01

Client Project Name: NAS CECIL FIELD 103rd STREET GW SAMPLING Sample Matrix: WATER

Client Sample ID: METHOD BLANK

ANALYSIS: Metals - Lead Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 12/28/00 Date Analyzed: 1/2/01 Result Units: mg/L

Analyte Name	Analytical Results	Reported Detection Limits
Lead	<RDL	0.010

ANALYSIS: PAH's by HPLC Method Ref: 8310

Date Ext/Dig/Prep: 12/26/00 Date Analyzed: 1/4/01 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
1-Methylnapthalene	<RDL	1
2-Methylnapthalene	<RDL	1
Acenaphthene	<RDL	1
Acenaphthylene	<RDL	2
Anthracene	<RDL	0.66
Benzo(a)anthracene	<RDL	0.13
Benzo(a)pyrene	<RDL	0.1
Benzo(b)fluoranthene	<RDL	0.18
Benzo(g,h,i)perylene	<RDL	0.76
Benzo(k)fluoranthene	<RDL	0.17
Chrysene	<RDL	0.15
Dibenzo(a,h)anthracene	<RDL	0.3
Fluoranthene	<RDL	0.21
Fluorene	<RDL	0.5
Indeno(1,2,3-cd)pyrene	<RDL	0.43
Naphthalene	<RDL	1
Phenanthrene	<RDL	0.64
Pyrene	<RDL	0.27

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 12/26/00 Date Analyzed: 1/4/01 Result Units: mg/L

Analyte Name	Analytical Results	Reported Detection Limits
Petroleum Range Organics (PRO)	0.38J	1.0

ANALYSIS: VOC's Navy (25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 12/29/00 Date Analyzed: 12/29/00 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RDL	2.5
1,1,1-Trichloroethane	<RDL	4
1,1,2,2-Tetrachloroethane	<RDL	2

1,1,2-Trichloroethane	<RDL	5
1,1-Dichloroethane	<RDL	2
1,1-Dichloroethene	<RDL	6
1,2,3-Trichlorobenzene	<RDL	1.5
1,2,3-Trichloropropane	<RDL	16
1,2,4-Trichlorobenzene	<RDL	2
1,2,4-Trimethylbenzene	<RDL	6.5
1,2-Dibromo-3-chloropropane	<RDL	13
1,2-Dichlorobenzene	<RDL	1.5
1,2-Dichloroethane	<RDL	3
1,2-Dichloropropane	<RDL	2
1,2-Ethylene Dibromide	<RDL	3
1,3,5-Trimethylbenzene	<RDL	2.5
1,3-Dichlorobenzene	<RDL	6
1,3-Dichloropropane	<RDL	2
1,4-Dichlorobenzene	<RDL	1.5
2,2-Dichloropropane	<RDL	17.5
2-Chlorotoluene	<RDL	2
4-Chlorotoluene	<RDL	3
Benzene	<RDL	2
Bromobenzene	<RDL	1.5
Bromochloromethane	<RDL	2
Bromodichloromethane	<RDL	4
Bromoform	<RDL	6
Bromomethane	<RDL	5.5
Carbon tetrachloride	<RDL	10.5
Chlorobenzene	<RDL	2
Chloroethane	<RDL	5
Chloroform	<RDL	1.5
Chloromethane	<RDL	6.5
cis-1,2-Dichloroethene	<RDL	6
cis-1,3-Dichloropropene	<RDL	5
Dibromochloromethane	<RDL	2.5
Dibromomethane	<RDL	12
Dichlorodifluoromethane	<RDL	5
Ethylbenzene	<RDL	3
Hexachlorobutadiene	<RDL	5.5
Isopropylbenzene	<RDL	2.5
Methylene chloride	<RDL	1.5
n-Butylbenzene	<RDL	5.5
n-Propylbenzene	<RDL	2
Naphthalene	1.1 J	2
p-Isopropyltoluene	<RDL	6
Sec-Butylbenzene	<RDL	6.5
Styrene	<RDL	2
Tert-Butylbenzene	<RDL	7
Tetrachloroethylene	<RDL	7
Toluene	<RDL	5.5
Total Xylenes	<RDL	5
trans-1,2-Dichloroethene	<RDL	3
trans-1,3-Dichloropropene	<RDL	5
Trichloroethylene	<RDL	5

Trichlorofluoromethane	<RDL	4
Vinyl chloride	<RDL	5.5

ANALYSIS: X PAH Surrogates (Liquid) Method Ref: 8310

Date Ext/Dig/Prep: 12/26/00 Date Analyzed: 1/4/01 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
p-terphenyl d14 (Range 20-140)	96	

ANALYSIS: X PRO QC Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 12/26/00 Date Analyzed: 1/4/01 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
C(39) (Range 42-193)	5	
o-Terphenyl (Range 82-142)	85	

ANALYSIS: X VOC QC Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 12/29/00 Date Analyzed: 12/29/00 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
1,2-Dichloroethane-d4 (78-114)	81	
4-Bromofluorobenzene (85-111)	96	
Toluene-d8 (88-106)	99	

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PROJECT QUALITY CONTROL RESULTS
AAL PROJECT #26563

		Project Control Rec.				Accuracy Limits		Project Control		Precision Limits		Project Control Recoveries		Accuracy Limits		Project Control		Precision Limits	
		MS	MSD	MS	MSD	MS/MSD Recoveries		MS/MSD % Deviation		MS/MSD Deviation		LCS	LCS	LCS Recoveries		Field Dup % Deviation		Field Dup Deviation	
Method No[1]	Analyte / Component	Water		Soil[2]		Water	Soil[2]	Water	Soil[2]	Water	Soil[2]	Water	Soil[2]	Water	Soil[2]	Water	Soil[2]	Water	Soil[2]
	VOLATILES BY GC/MS					%	%			%	%			%	%			%	%
8260B	1,1,1,2-Tetrachloroethane	100	99			60-140	20-150	1%		<30	<50	101		62-108	62-108			<50	<75
8260B	1,1,1-Trichloroethane	97	96			60-140	20-150	1%		<30	<50	96		65-135	65-135			<50	<75
8260B	1,1,2,2-Tetrachloroethane	101	107			60-140	20-150	6%		<30	<50	102		64-135	64-135			<50	<75
8260B	1,1,2-Trichloroethane	106	109			60-140	20-150	3%		<30	<50	101		65-135	65-135			<50	<75
8260B	1,1-Dichloroethane	106	99			60-140	20-150	6%		<30	<50	102		62-135	62-135			<50	<75
8260B	1,1-Dichloroethene	98	100			60-140	20-150	2%		<30	<50	100		65-135	65-135			<50	<75
8260B	1,2,3-Trichlorobenzene	102	109			60-140	20-150	6%		<30	<50	99		65-147	65-147			<50	<75
8260B	1,2,3-Trichloropropane	104	102			60-140	20-150	2%		<30	<50	96		65-135	65-135			<50	<75
8260B	1,2,4-Trichlorobenzene	101	103			60-140	20-150	3%		<30	<50	98		65-145	65-145			<50	<75
8260B	1,2,4-Trimethylbenzene	256	-6			60-140	20-150	210%		<30	<50	99		65-135	65-135			<50	<75
8260B	1,2-Dichloroethane	100	105			60-140	20-150	5%		<30	<50	97		58-137	58-137			<50	<75
8260B	1,2-Dichlorobenzene	98	92			60-140	20-150	6%		<30	<50	99		65-135	65-135			<50	<75
8260B	1,2-Dibromo-3-chloropropane	200	176			60-140	20-150	13%		<30	<50	94		49-135	49-135			<50	<75
8260B	1,2-Dichloropropane	102	96			60-140	20-150	6%		<30	<50	96		60-135	60-135			<50	<75
8260B	1,2-Ethylene Dibromide	101	113			60-140	20-150	11%		<30	<50	102		65-135	65-135			<50	<75
8260B	1,3,5-Trimethylbenzene	134	54			60-140	20-150	85%		<30	<50	97		62-135	62-135			<50	<75
8260B	1,3-Dichlorobenzene	101	91			60-140	20-150	10%		<30	<50	96		65-135	65-135			<50	<75
8260B	1,3-Dichloropropane	100	109			60-140	20-150	8%		<30	<50	105		65-135	65-135			<50	<75
8260B	1,4-Dichlorobenzene	96	93			60-140	20-150	3%		<30	<50	99		65-135	65-135			<50	<75
8260B	2,2-Dichloropropane	87	94			60-140	20-150	8%		<30	<50	95		65-135	65-135			<50	<75
8260B	2-Chlorotoluene	119	98			60-140	20-150	19%		<30	<50	93		63-135	63-135			<50	<75
8260B	4-Chlorotoluene	123	109			60-140	20-150	13%		<30	<50	97		64-135	64-135			<50	<75
8260B	Benzene	103	97			60-140	20-150	5%		<30	<50	101		65-135	65-135			<50	<75
8260B	Bromobenzene	105	99			60-140	20-150	6%		<30	<50	103		65-135	65-135			<50	<75
8260B	Bromochloromethane	105	109			60-140	20-150	4%		<30	<50	105		63-135	63-135			<50	<75
8260B	Bromodichloromethane	101	104			60-140	20-150	3%		<30	<50	102		65-135	65-135			<50	<75
8260B	Bromoform	96	102			60-140	20-150	6%		<30	<50	97		65-135	65-135			<50	<75
8260B	Bromomethane	102	96			60-140	20-150	6%		<30	<50	99		62-135	62-135			<50	<75
8260B	Carbon Tetrachloride	95	96			60-140	20-150	1%		<30	<50	98		52-135	52-135			<50	<75
8260B	Chlorobenzene	99	94			60-140	20-150	6%		<30	<50	98		65-135	65-135			<50	<75
8260B	Chloroethane	109	103			60-140	20-150	6%		<30	<50	109		55-135	55-135			<50	<75
8260B	Chloroform	99	96			60-140	20-150	3%		<30	<50	99		64-135	64-135			<50	<75
8260B	Chloromethane	109	106			60-140	20-150	3%		<30	<50	106		65-135	65-135			<50	<75
8260B	Cis-1,2-Dichloroethene	103	99			60-140	20-150	4%		<30	<50	104		65-135	65-135			<50	<75
8260B	Cis-1,3-Dichloropropene	100	108			60-140	20-150	8%		<30	<50	101		64-135	64-135			<50	<75
8260B	Dibromochloromethane	100	114			60-140	20-150	13%		<30	<50	106		63-135	63-135			<50	<75
8260B	Dibromomethane	104	113			60-140	20-150	8%		<30	<50	101		59-137	59-137			<50	<75
8260B	Dichlorodifluoromethane	105	99			60-140	20-150	5%		<30	<50	108		65-135	65-135			<50	<75
8260B	Ethylbenzene	121	81			60-140	20-150	40%		<30	<50	102		65-135	65-135			<50	<75
8260B	Hexachlorobutadiene	98	87			60-140	20-150	12%		<30	<50	98		65-135	65-135			<50	<75
8260B	Isopropylbenzene	113	78			60-140	20-150	36%		<30	<50	95		65-135	65-135			<50	<75
8260B	total-Xylene	106	89			60-140	20-150	18%		<30	<50	100		65-135	65-135			<50	<75
8260B	Methylene Chloride	85	82			60-140	20-150	3%		<30	<50	97		65-135	65-135			<50	<75
8260B	n-Butylbenzene	178	144			60-140	20-150	21%		<30	<50	99		65-135	65-135			<50	<75
8260B	n-Propylbenzene	122	83			60-140	20-150	37%		<30	<50	101		65-135	65-135			<50	<75
8260B	Naphthalene	198	146			60-140	20-150	30%		<30	<50	80		65-135	65-135			<50	<75
8260B	p-Isopropyltoluene	116	75			60-140	20-150	43%		<30	<50	98		65-135	65-135			<50	<75
8260B	Sec-Butylbenzene	104	73			60-140	20-150	35%		<30	<50	97		65-135	65-135			<50	<75

Notes:
1) SW-846 Methods unless otherwise noted
2) Includes sediments, waste, solids

NS = Not Specified
NA = Not Applicable

PROJECT QUALITY CONTROL RESULTS
AAL PROJECT #26563

		Project Control Rec.				Accuracy Limits		Project Control		Precision Limits		Project Control Recoveries		Accuracy Limits		Project Control		Precision Limits	
		MS	MSD	MS	MSD	MS/MSD Recoveries		MS/MSD % Deviation		MS/MSD Deviation		LCS	LCS	LCS Recoveries		Field Dup % Deviation		Field Dup Deviation	
Method No[1]	Analyte / Component	Water		Soil[2]		Water	Soil[2]	Water	Soil[2]	Water	Soil[2]	Water	Soil[2]	Water	Soil[2]	Water	Soil[2]	Water	Soil[2]
	VOLATILES BY GC/MS					%	%			%	%			%	%			%	%
8260B	Styrene	102	100			60-140	20-150	2%		<30	<50	102		65-135	65-135			<50	<75
8260B	Trichloroethylene	101	96			60-140	20-150	5%		<30	<50	98		61-135	61-135			<50	<75
8260B	Tert-Butylbenzene	62	66			60-140	20-150	5%		<30	<50	97		65-135	65-135			<50	<75
8260B	Tetrachloroethylene	102	92			60-140	20-150	10%		<30	<50	98		61-135	61-135			<50	<75
8260B	Toluene	103	95			60-140	20-150	8%		<30	<50	100		64-135	64-135			<50	<75
8260B	Trans-1,2-Dichloroethene	103	99			60-140	20-150	4%		<30	<50	102		65-135	65-135			<50	<75
8260B	Trans-1,3-Dichloropropene	97	111			60-140	20-150	13%		<30	<50	100		56-135	56-135			<50	<75
8260B	Trichlorofluoromethane	95	97			60-140	20-150	2%		<30	<50	97		57-135	57-135			<50	<75
8260B	Vinyl Chloride	92	93			60-140	20-150	1%		<30	<50	94		36-144	36-144			<50	<75
8260B	Toluene-d8 (surr)	102	94			75-125	65-135	8%		NA	NA	99		NA	NA			NA	NA
8260B	4-Bromofluorobenzene (surr)	101	97			75-125	65-135	4%		NA	NA	98		NA	NA			NA	NA
8260B	1,2-Dichloroethane-d4 (surr)	98	103			62-139	52-149	5%		NA	NA	96		NA	NA			NA	NA
	METALS BY ICP					%	%			%	%			%	%			%	%
6010B	Lead	96	100			50-150	30-170	4%	#DIV/0!	<30	<50	99		79-116	79-116			<50	<75
	PETROLEUM HYDROCARBONS					%	%			%	%			%	%			%	%
FL-PRO	TPH	17	54			50-150	30-170	104%	#DIV/0!	<30	<50	48		75-125	70-130			<50	<75

Notes:
1) SW-846 Methods unless otherwise noted
2) Includes sediments, waste, solids

NS = Not Specified
NA = Not Applicable

AAL #26563 ABL/2°C.

CH2M Hill Constructors, Inc.
115 Perimeter Center Place, Suite 700
Atlanta, GA 30346-1278
Tel No (770) 604-9182 ; Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

AAL # 26563

COC NUMBER: **154282-09**

PROJECT NAME:	PROJECT NUMBER:	LAB NAME AND CONTACT:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No. , and Fax No.):
N.A.S. Cecil Field 103rd Street	154282	Accura Analytical Laboratory, Inc.	Jennifer Zimmerman / J.A Jones Env. Services	6219 Authority Ave. Building 1 Jacksonville, FL 32222 (904) 7774812 FAX: (904)
PROJECT PHASE/SITE/TASK:	CTO OR DO NUMBER:	LAB PO NUMBER:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No. , and Fax No.):
103rd Street Quarterly GW Sampling Event	0029	1760	Jeff Wilmoth / CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 Ext.561 FAX:604-9282
PROJECT CONTACT:	PROJECT TEL NO AND FAX NO:	LAB TEL NO AND FAX NO:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No. , and Fax No.):
David Garrity	Ph:(904)777-4812 Fax:(904) 777-4262	Ph: 770-449-8800 Fax: 770-449-5477		

ANALYSES REQUIRED (Include Method Numbers)

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	Volatiles by 8021B	PAHs by 8310	Lead by 239.2	TRPH by FL-PRO							SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID AC
1	029-SMW01-Q4-00-07	CEF-103-SMW-01	W	12/20/00	9:30	III/C	14	2	2	1	2							Grab		05535
2	029-SMW02-Q4-00-07	CEF-103-SMW-02	W	12/20/00	12:10	III/C	14	2	2	1	2							Grab		05536
3	029-SMW03-Q4-00-07	CEF-103-SMW-03	W	12/20/00	10:40	III/C	14	2	2	1	2							Grab		05537
4	029-SMW07-Q4-00-07	CEF-103-SMW-07	W	12/20/00	14:05	III/C	14	2	2	1	2							Grab		05538
5	029-SMW10-Q4-00-07	CEF-103-SMW-10	W	12/20/00	13:25	III/C	14	2	2	1	2							Grab		05539
6	029-SMW11-Q4-00-07	CEF-103-SMW-11	W	12/20/00	11:25	III/C	14	4	4	2	4							Grab	MS / MSD	05540
7	029-DUP-Q4-00-07	Duplicate	W			III/C	14	2	2	1	2							Grab		05541
8	029-EQB-Q4-00-07	Equipment Blank	W	12/20/00	10:50	III/C	14	2	2	1	2							Grab		05542
9	Temp Blank	Temp Blank	W	12/20/00		III/C	14					4						Grab	Prepared In Field	—
10	Trip Blank	Trip Blank	W	12/20/00		III/C	14					1						Grab	Prepared By Lab	05543

SAMPLER(S) AND COMPANY: (please print)	COURIER AND SHIPPING NUMBER:	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:
Randy Dumaop / Scott Sloan J.A. Jones Environmental Services	Federal Express TRK # 790429118080, 791927679277, 791927680822, 792388211937.	2°C / Good

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature:			Printed Name and Signature:		
R.Dumaop R. Dumaop	12/20/00	17:30	Federal Express	12/20/00	17:30
Printed Name and Signature:			Printed Name and Signature:		
FED EX.	12-21-00	1100	ARNOLD B LIGHT Arnold B Light	12-21-00	1100.
Printed Name and Signature:			Printed Name and Signature:		
				ABL-12-21-00	

Distribution: [ ] **Original** - Laboratory (To be returned with Analytical Report); [ ] **Copy 1** - Project File; [ ] **Copy 2** - PMO

Form CCI001, Rev 02/00

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	STD1-Blank	JAN0201	WATERS2	01/02/01	09:57		X	IR
2	STD8	JAN0201	WATERS2	01/02/01	10:04		X	IR
3	STD3	JAN0201	WATERS2	01/02/01	10:09		X	IR
4	STD4	JAN0201	WATERS2	01/02/01	10:13		X	IR
5	STD2	JAN0201	WATERS2	01/02/01	10:18		X	IR
6	ICV 2	JAN0201	WATERS2	01/02/01	10:23	ma	Q	CONC
7	ICV 1	JAN0201	WATERS2	01/02/01	10:29	ma	Q	CONC
8	ICB	JAN0201	WATERS2	01/02/01	10:36	ma	B	CONC
9	ICS A	JAN0201	WATERS2	01/02/01	10:42	ma	Q	CONC
10	ICS AB	JAN0201	WATERS2	01/02/01	10:49	ma	Q	CONC
11	SS I	JAN0201	WATERS2	01/02/01	10:55	ma	Q	CONC
12	SS I LOW	JAN0201	WATERS2	01/02/01	11:02	ma	Q	CONC
13	qmw1228001 0930	JAN0201	WATERS2	01/02/01	11:08	ma	S	CONC
14	qmw1228002lcs	JAN0201	WATERS2	01/02/01	11:14	ma	S	CONC
15	qmw1228003lcsd	JAN0201	WATERS2	01/02/01	11:20	ma	S	CONC
16	05526	JAN0201	WATERS2	01/02/01	11:26	ma	S	CONC
17	05527	JAN0201	WATERS2	01/02/01	11:32	ma	S	CONC
18	05535	JAN0201	WATERS2	01/02/01	11:39	ma	S	CONC
19	05536	JAN0201	WATERS2	01/02/01	11:45	ma	S	CONC
20	05537	JAN0201	WATERS2	01/02/01	11:51	ma	S	CONC
21	05538	JAN0201	WATERS2	01/02/01	11:57	ma	S	CONC
22	05539	JAN0201	WATERS2	01/02/01	12:03	ma	S	CONC
23	ICV 2	JAN0201	WATERS2	01/02/01	12:11	ma	Q	CONC
24	ICV 1	JAN0201	WATERS2	01/02/01	12:19	ma	Q	CONC
25	ICB	JAN0201	WATERS2	01/02/01	12:26	ma	B	CONC
26	05540	JAN0201	WATERS2	01/02/01	12:32	ma	S	CONC
27	05541	JAN0201	WATERS2	01/02/01	12:39	ma	S	CONC
28	05542	JAN0201	WATERS2	01/02/01	12:45	ma	S	CONC
29	05541 d	JAN0201	WATERS2	01/02/01	12:51	ma	S	CONC
30	05541 ms	JAN0201	WATERS2	01/02/01	12:57	ma	S	CONC
31	05541 msd	JAN0201	WATERS2	01/02/01	13:03	ma	S	CONC
32	05595	JAN0201	WATERS2	01/02/01	13:10	ma	S	CONC
33	05596	JAN0201	WATERS2	01/02/01	13:16	ma	S	CONC
34	05509 1:4sd	JAN0201	WATERS2	01/02/01	13:22	ma	S	CONC
35	05509 1:1msa	JAN0201	WATERS2	01/02/01	13:28	ma	S	CONC
36	ICV 2	JAN0201	WATERS2	01/02/01	13:36	ma	Q	CONC
37	ICV 1	JAN0201	WATERS2	01/02/01	13:43	ma	Q	CONC
38	ICB	JAN0201	WATERS2	01/02/01	13:49	ma	B	CONC
39	SS I	JAN0201	WATERS2	01/02/01	13:55	ma	Q	CONC
40	SS I LOW	JAN0201	WATERS2	01/02/01	14:02	ma	Q	CONC
41	ICS A	JAN0201	WATERS2	01/02/01	14:08	ma	Q	CONC
42	ICS AB	JAN0201	WATERS2	01/02/01	14:14	ma	Q	CONC

Proj. # 26563 (pb)

524

lm 01/2/01

#	Element	STD'lank	STD8	STD3	STD4	STD2	ICV 2
1	Ag3280	-.00109	.84003				.9903
2	Al3082	.01546		.10158			1.002
3	As1890	-.00416			.39139		1.025
4	Ba4934	0				2.48877	1.021
5	Be3130	-.0028		1.47687			1.054
6	Ca3179	.00101				.05542	1.014
7	Cd2265	-.00091				1.17634	1.004
8	Co2286	-.00132				.88485	1.016
9	Cr2677	.00034			.60194		1.019
10	Cu3247	.00866				.73383	1.012
11	Fe2714	.00056		.03194			Q1.091
12	K_7664	.01432				3.00636	Q9.123
13	Mg2790	-.00004				.05525	.9698
14	Mn2576	.00029				.74991	1.014
15	Ni2316	-.00325		.61359			.9982
16	2203/1	.00937				2.74017	1.014
17	2203/2	.00119				2.50764	.9953
18	1960/1	-.04075			1.51677		1.019
19	1960/2	.01272			.71815		1.010
20	Sb2068	.00251		.51816			.9943
21	Sn1899	-.00129		.32652			.9837
22	Tl1908	-.00143		.1624			1.017
23	V_2924	-.00002			.01421		1.009
24	Zn2062	-.0003				.15371	1.001
25	Pb2203						1.008
26	Se1960						1.016

#	Element	ICV 1	ICB	ICS A	ICS AB	SS I	SS I LOW
1	Ag3280	.1985	.0003	.0004	.3113	.0009	.0003
2	Al3082	.1987	-.0265	49.94	52.24	Q.0645	.0099
3	As1890	.2019	-.0039	-.0099	1.055	.0380	Q.0065
4	Ba4934	.2066	.0001	.0003	.3066	.0414	.0110
5	Be3130	Q.2124	.0003	.0001	.1006	.0011	.0004
6	Ca3179	.2101	.0017	48.90	50.80	.0799	.0197
7	Cd2265	.2021	.0002	.0072	.3121	Q.0012	.0002
8	Co2286	.2048	.0005	.0009	.3083	.0109	.0028
9	Cr2677	.2054	-.0001	.0003	.3059	.0040	Q.0005
10	Cu3247	.2030	-.0010	Q.0306	.3461	.0044	.0011
11	Fe2714	Q.2248	.0015	47.58	49.64	Q.0412	.0367
12	K_7664	Q1.740	-.0108	Q.2175	Q26.58	.0061	-.0045
13	Mg2790	.1930	.0004	49.22	51.12	.0144	.0073
14	Mn2576	.2048	-.0000	.0014	.2053	.0106	.0029
15	Ni2316	.2015	.0010	.0017	.3023	.0106	Q.0030
16	2203/1	.1998	-.0026	.0181	1.066	.0083	.0037
17	2203/2	.2003	.0021	.0020	1.045	.0121	.0053
18	1960/1	.2083	-.0019	.0154	.5491	.0492	.0173
19	1960/2	.2008	-.0063	-.0054	.5377	.0360	.0052
20	Sb2068	.1987	-.0007	.0046	1.052	.0084	.0020
21	Sn1899	.1990	.0039	.0049	1.033	.0025	.0022
22	Tl1908	.2058	.0026	Q.0412	1.126	.0437	.0113
23	V_2924	.2025	.0001	.0036	.3051	.0105	Q.0036

#	Element	ICV 1	ICB	ICS A	ICS AB	SS I	SS I LOW
24	Zn2062	.2025	.0001	.0037	.3040	.0113	.0027
25	Pb2203	.2002	-.0008	.0130	1.060	.0098	Q.0045
26	Se1960	.2060	-.0032	.0084	.5452	.0450	Q.0135

#	Element	qmw'0930	qmw'21cs	qmw'1csd	05526	05527	05535
	11.08						11.39
1	Ag3280	.0001	.9779	1.008	.0003	.0000	-.0006
2	Al3082	.0149	1.001	1.022	9.968	3.056	61.22
3	As1890	-.0088	1.002	1.032	-.0062	-.0066	.0022
4	Ba4934	.0002	1.010	1.031	.0938	.0767	.2701
5	Be3130	.0001	.9774	1.003	.0013	.0004	.0082
6	Ca3179	.0550	1.009	1.036	6.862	11.09	109.3
7	Cd2265	.0001	.9861	1.014	.0016	.0001	.0020
8	Co2286	.0005	.9955	1.024	.0148	.0009	.0034
9	Cr2677	-.0002	.9895	1.018	.0067	.0012	.0642
10	Cu3247	-.0004	.9994	1.021	.0477	.0114	.0423
11	Fe2714	.0157	1.108	1.144	15.96	3.645	16.53
12	K_7664	.0031	9.669	9.905	1.705	3.180	9.033
13	Mg2790	.0048	.9393	.9648	4.607	3.491	8.051
14	Mn2576	.0001	.9963	1.024	.2530	.0446	.1790
15	Ni2316	.0006	.9758	1.003	.0168	.0040	.0212
16	2203/1	-.0003	.9924	1.013	.0039	-.0003	.1152
17	2203/2	.0032	.9911	1.013	.0045	.0020	.1063
18	1960/1	.0002	.9789	.9913	.0020	.0031	.0189
19	1960/2	-.0022	.9878	1.004	-.0010	-.0023	.0020
20	Sb2068	.0003	.9694	.9950	.0010	.0000	.0052
21	Sn1899	.0023	1.924	1.949	.0084	.0103	.0030
22	Tl1908	.0032	.9855	1.016	.0135	.0028	.0169
23	V_2924	.0001	.9842	1.008	.0484	.0117	.0972
24	Zn2062	.0118	.9817	1.015	.0405	.0207	.0503
25	Pb2203	.0011	.9922	1.013	.0043	.0007	.1125
26	Se1960	-.0004	.9820	.9956	.0012	.0015	.0131

#	Element	05536	05537	05538	05539	ICV 2	ICV 1
		11.45	11.51	11.57	12.03		
1	Ag3280	.0001	.0000	-.0021	-.0009	1.018	.2024
2	Al3082	292.5	.7321	170.6	347.6	Q1.149	Q.3028
3	As1890	.0036	-.0032	.0231	.0195	Q1.064	.2078
4	Ba4934	.6662	.1059	.8027	1.846	1.032	.2055
5	Be3130	.0023	.0036	.0220	.0139	Q1.100	Q.2188
6	Ca3179	194.1	125.3	68.62	82.98	Q1.072	Q.2171
7	Cd2265	.0023	.0019	.0105	.0347	1.029	.2046
8	Co2286	.0049	.0426	.0128	.0284	1.037	.2061
9	Cr2677	.1582	.0033	.2634	.3054	1.037	.2054
10	Cu3247	.1202	.0152	.0768	1.305	1.025	.2012
11	Fe2714	23.93	8.448	81.52	258.4	Q1.182	Q.2541
12	K_7664	15.26	3.857	5.740	12.05	Q9.047	Q1.665
13	Mg2790	20.05	14.68	8.049	23.36	.9659	Q.1884
14	Mn2576	.2006	.1063	.4179	.2037	1.036	.2067
15	Ni2316	.0403	.0501	.0478	.0850	1.016	.2020
16	2203/1	.1932	.0080	.1803	.3710	1.032	.2016
17	2203/2	.1272	.0072	.1418	.2712	1.023	.2089

#	Element	05536	05537	05538	05539	ICV 2	ICV 1
		11.45	11.51	11.57	12.03		
18	1960/1	.0585	.0049	.0426	.0634	1.020	.2058
19	1960/2	.0413	-.0048	.0075	.0156	1.027	.2073
20	Sb2068	.0411	.0007	.0209	.0515	1.003	.1974
21	Sn1899	.0077	.0042	.0068	.0154	1.006	.1999
22	Tl1908	.0145	.0099	.0698	.2131	Q1.058	.2103
23	V_2924	.2062	.0148	.4376	.4937	1.017	.2018
24	Zn2062	.1112	.0599	.0834	.4360	1.023	.2047
25	Pb2203	.1715	.0080	.1676	.3379	1.029	.2042
26	Se1960	.0513	.0019	.0300	.0457	1.022	.2065

#	Element	ICB	05540	05541	05542	05541 d	05541 ms
			12.32	12.39	12.45		
1	Ag3280	.0002	-.0001	-.0005	.0004	-.0006	.9627
2	Al3082	.0644	146.0	208.4	.1146	248.3	332.9
3	As1890	-.0039	-.0022	.0093	-.0055	.0074	.9373
4	Ba4934	.0002	1.112	1.112	.0010	1.230	2.145
5	Be3130	.0003	.0107	.0084	.0002	.0090	.9519
6	Ca3179	-.0031	220.5	68.15	.3633	69.37	68.81
7	Cd2265	.0001	.0095	.0167	-.0002	.0184	.9355
8	Co2286	.0010	.0023	.0209	.0007	.0223	.9556
9	Cr2677	.0002	.1974	.1835	.0005	.2128	1.143
10	Cu3247	-.0025	.0836	.7790	-.0030	.8221	1.861
11	Fe2714	.0003	84.56	149.0	.0418	164.9	174.9
12	K_7664	-.0003	7.928	7.952	.0121	9.130	22.81
13	Mg2790	.0018	12.41	18.77	.0775	19.75	21.36
14	Mn2576	-.0001	.8041	.1617	.0001	.1756	1.099
15	Ni2316	.0024	.0266	.0593	.0017	.0639	.9756
16	2203/1	-.0009	.1739	.2140	.0009	.2378	1.183
17	2203/2	.0038	.1341	.1514	.0021	.1739	1.124
18	1960/1	.0040	.0326	.0475	.0016	.0434	.9218
19	1960/2	-.0035	.0101	.0035	-.0054	.0120	.9469
20	Sb2068	-.0011	.0220	.0292	.0003	.0359	.2863
21	Sn1899	.0012	.0073	.0073	.0004	.0100	1.357
22	Tl1908	.0050	.0684	.1225	.0027	.1307	1.147
23	V_2924	-.0022	.1835	.2981	.0002	.3347	1.266
24	Zn2062	.0005	.0911	.3523	.0128	.3703	1.266
25	Pb2203	.0009	.1609	.1934	.0015	.2167	1.164
26	Se1960	.0017	.0244	.0318	-.0006	.0317	.9285

95% MS/MSD RPD 2.1

#	Element	055' msd	05595	05596	055':4sd	055'1msa	ICV 2
					526	526	
1	Ag3280	.9496	.0001	.0005	.0025	.2028	1.026
2	Al3082	317.1	8.285	.5709	9.417	10.25	Q1.123
3	As1890	.9331	-.0043	-.0048	.0005	.2066	Q1.076
4	Ba4934	2.145	.0880	.0236	.0863	.2989	1.031
5	Be3130	.9451	.0008	.0003	.0024	.2181	Q1.119
6	Ca3179	68.33	1.030	4.772	6.610	7.281	1.045
7	Cd2265	.9222	.0011	.0001	.0031	.2010	1.025
8	Co2286	.9438	.0025	.0021	.0210	.2200	1.034
9	Cr2677	1.127	.0045	.0006	.0051	.2096	1.025
10	Cu3247	1.845	.0027	-.0018	.0216	.2479	1.036
11	Fe2714	173.1	12.23	1.382	14.64	16.53	Q1.114

#	Element	055' msd	05595	05596	055':4sd	055'1msa	ICV 2
12	K_7664	21.90	1.900	1.943	1.502	3.534	Q8.923
13	Mg2790	20.83	.9085	.8108	4.115	4.654	Q.9352
14	Mn2576	1.083	.2859	.1532	.2289	.4615	1.037
15	Ni2316	.9635	.0039	.0023	.0339	.2182	.9993
16	2203/1	1.170	.0128	.0042	-.0017	.2081	1.019
17	2203/2	1.110	.0075	.0019	.0100	.2091	1.058
18	1960/1	.9284	.0044	.0043	.0858	.2062	1.001
19	1960/2	.9182	-.0045	-.0052	-.0646	.1908	1.050
20	Sb2068	.2132	.0011	.0019	-.0100	.2030	.9897
21	Sn1899	1.317	.0033	.0007	.0127	.2149	.9961
22	Tl1908	1.137	.0150	.0026	.0457	.2291	Q1.076
23	V_2924	1.248	.0069	-.0011	.0568	.2502	1.008
24	Zn2062	1.258	.0221	.0418	.1172	.2435	1.001
25	Pb2203	1.150	.0113	.0037	.0034	.2088	1.032
26	Se1960	.9234	.0016	.0013	.0366	.2014	1.017

#	Element	ICV 1	ICB	SS I	SS I LOW	ICS A	ICS AB
1	Ag3280	.2055	.0005	Q.0015	.0007	.0004	.3202
2	Al3082	Q.3552	.1285	Q.1982	.1380	47.61	50.00
3	As1890	Q.2140	-.0059	.0415	Q.0072	-.0063	1.092
4	Ba4934	.2077	.0001	.0412	.0106	.0003	.3074
5	Be3130	Q.2243	.0003	Q.0013	.0006	.0001	.1063
6	Ca3179	.2013	-.0144	.0661	.0030	50.54	52.59
7	Cd2265	.2056	-.0001	.0011	.0001	.0046	.3126
8	Co2286	.2085	.0015	.0114	Q.0039	.0020	.3105
9	Cr2677	.2045	-.0001	.0040	.0009	.0007	.3026
10	Cu3247	.2033	-.0048	Q.0001	-.0037	Q.0256	.3486
11	Fe2714	Q.2312	-.0087	Q.0294	.0265	48.46	50.63
12	K_7664	Q1.676	-.0115	-.0275	-.0255	Q.2054	Q25.49
13	Mg2790	.1899	.0030	.0093	.0055	47.06	48.88
14	Mn2576	.2087	-.0001	.0106	.0027	.0013	.2082
15	Ni2316	.2011	.0022	Q.0130	Q.0043	.0044	.3019
16	2203/1	.2021	.0008	.0094	.0037	.0205	1.057
17	2203/2	.2117	.0013	.0111	.0035	.0025	1.094
18	1960/1	.2044	.0090	.0493	.0195	.0185	.5340
19	1960/2	.2057	-.0081	.0374	.0009	-.0107	.5427
20	Sb2068	.2003	-.0005	.0090	.0022	.0065	1.031
21	Sn1899	.1975	.0019	.0029	.0027	.0041	1.038
22	Tl1908	Q.2226	.0022	.0465	Q.0156	Q.0452	1.173
23	V_2924	.1994	.0002	.0103	Q.0036	.0024	.3048
24	Zn2062	.2029	.0010	.0120	.0040	.0040	.3024
25	Pb2203	.2055	.0012	.0102	Q.0039	.0148	1.070
26	Se1960	.2051	.0035	.0455	Q.0135	.0087	.5368

Analysis Report Summary 01/04/01 05:15:47 PM

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	STD1-Blank	JAN0401	WATERS2	01/04/01	08:38		X	IR
2	STD8	JAN0401	WATERS2	01/04/01	08:45		X	IR
3	STD3	JAN0401	WATERS2	01/04/01	08:48		X	IR
4	STD4	JAN0401	WATERS2	01/04/01	08:52		X	IR
5	STD2	JAN0401	WATERS2	01/04/01	08:57		X	IR
6	ICV 2	JAN0401	WATERS2	01/04/01	09:01	ma	Q	CONC
7	ICV 1	JAN0401	WATERS2	01/04/01	09:09	ma	Q	CONC
8	ICB	JAN0401	WATERS2	01/04/01	09:15	ma	B	CONC
9	ICS A	JAN0401	WATERS2	01/04/01	09:33	ma	Q	CONC
10	ICS AB	JAN0401	WATERS2	01/04/01	09:39	ma	Q	CONC
11	SS I	JAN0401	WATERS2	01/04/01	09:45	ma	Q	CONC
12	SS I LOW	JAN0401	WATERS2	01/04/01	10:02	ma	Q	CONC
13	05599 TL	JAN0401	WATERS2	01/04/01	10:08	ma	S	CONC
14	05601 TL	JAN0401	WATERS2	01/04/01	10:14	ma	S	CONC
15	05619 TL	JAN0401	WATERS2	01/04/01	10:19	ma	S	CONC
16	05621 TL	JAN0401	WATERS2	01/04/01	10:25	ma	S	CONC
17	ICV 2	JAN0401	WATERS2	01/04/01	10:32	ma	Q	CONC
18	ICV 1	JAN0401	WATERS2	01/04/01	10:38	ma	Q	CONC
19	ICB Proj. # 26563	JAN0401	WATERS2	01/04/01	10:44	ma	B	CONC
20	QMW0103011 0810	JAN0401	WATERS2	01/04/01	10:49	ma	S	CONC
21	QMW0103012LCS (pb)	JAN0401	WATERS2	01/04/01	10:55	ma	S	CONC
22	QMW0103013LCSD	JAN0401	WATERS2	01/04/01	11:01	ma	S	CONC
23	06007	JAN0401	WATERS2	01/04/01	11:07	ma	S	CONC
24	05540	JAN0401	WATERS2	01/04/01	11:12	ma	S	CONC
25	05540 D	JAN0401	WATERS2	01/04/01	11:18	ma	S	CONC
26	05540 MS	JAN0401	WATERS2	01/04/01	11:24	ma	S	CONC
27	05540 MSD	JAN0401	WATERS2	01/04/01	11:29	ma	S	CONC
28	ICV 2	JAN0401	WATERS2	01/04/01	11:36	ma	Q	CONC
29	ICV 1	JAN0401	WATERS2	01/04/01	11:42	ma	Q	CONC
30	ICB	JAN0401	WATERS2	01/04/01	11:48	ma	B	CONC
31	QMW0102014 1240	JAN0401	WATERS2	01/04/01	11:54	ma	S	CONC
32	QMW0102015LCS	JAN0401	WATERS2	01/04/01	11:59	ma	S	CONC
33	QMW0102016LCSD	JAN0401	WATERS2	01/04/01	12:05	ma	S	CONC
34	05637	JAN0401	WATERS2	01/04/01	12:11	ma	S	CONC
35	05639	JAN0401	WATERS2	01/04/01	12:17	ma	S	CONC
36	05641	JAN0401	WATERS2	01/04/01	12:22	ma	S	CONC
37	05643	JAN0401	WATERS2	01/04/01	12:28	ma	S	CONC
38	05644	JAN0401	WATERS2	01/04/01	12:34	ma	S	CONC
39	05645	JAN0401	WATERS2	01/04/01	12:39	ma	S	CONC
40	05646	JAN0401	WATERS2	01/04/01	12:45	ma	S	CONC
41	ICV 2	JAN0401	WATERS2	01/04/01	12:52	ma	Q	CONC
42	ICV 1	JAN0401	WATERS2	01/04/01	12:58	ma	Q	CONC
43	ICB	JAN0401	WATERS2	01/04/01	13:04	ma	B	CONC
44	05647	JAN0401	WATERS2	01/04/01	13:10	ma	S	CONC
45	05647 D	JAN0401	WATERS2	01/04/01	13:16	ma	S	CONC
46	05647 MS	JAN0401	WATERS2	01/04/01	13:21	ma	S	CONC
47	ICV 1	JAN0401	WATERS2	01/04/01	13:34	ma	Q	CONC
48	ICV 2	JAN0401	WATERS2	01/04/01	13:40	ma	Q	CONC
49	ICB	JAN0401	WATERS2	01/04/01	13:46	ma	B	CONC
50	05647	JAN0401	WATERS2	01/04/01	13:52	ma	S	CONC
51	05647 D	JAN0401	WATERS2	01/04/01	13:58	ma	S	CONC
52	05647 MS	JAN0401	WATERS2	01/04/01	14:04	ma	S	CONC
53	05647 MSD	JAN0401	WATERS2	01/04/01	14:09	ma	S	CONC

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
54	05648	JAN0401	WATERS2	01/04/01	14:15	ma	S	CONC
55	05682	JAN0401	WATERS2	01/04/01	14:21	ma	S	CONC
56	05684	JAN0401	WATERS2	01/04/01	14:26	ma	S	CONC
57	05686	JAN0401	WATERS2	01/04/01	14:32	ma	S	CONC
58	05687	JAN0401	WATERS2	01/04/01	14:38	ma	S	CONC
59	05688	JAN0401	WATERS2	01/04/01	14:44	ma	S	CONC
60	ICV 2	JAN0401	WATERS2	01/04/01	14:50	ma	Q	CONC
61	ICV 1	JAN0401	WATERS2	01/04/01	14:56	ma	Q	CONC
62	ICV 2	JAN0401	WATERS2	01/04/01	15:17	ma	Q	CONC
63	ICB	JAN0401	WATERS2	01/04/01	15:24	ma	B	CONC
64	05689	JAN0401	WATERS2	01/04/01	15:30	ma	S	CONC
65	05690	JAN0401	WATERS2	01/04/01	15:36	ma	S	CONC
66	05691	JAN0401	WATERS2	01/04/01	15:42	ma	S	CONC
67	05692	JAN0401	WATERS2	01/04/01	15:47	ma	S	CONC
68	05692 D	JAN0401	WATERS2	01/04/01	15:53	ma	S	CONC
69	05692 MS	JAN0401	WATERS2	01/04/01	15:59	ma	S	CONC
70	05692 MSD	JAN0401	WATERS2	01/04/01	16:04	ma	S	CONC
71	05637 1:4SD	JAN0401	WATERS2	01/04/01	16:10	ma	S	CONC
72	05637 1:1MSA	JAN0401	WATERS2	01/04/01	16:16	ma	S	CONC
73	ICV 2	JAN0401	WATERS2	01/04/01	16:24	ma	Q	CONC
74	ICV 1	JAN0401	WATERS2	01/04/01	16:30	ma	Q	CONC
75	ICB	JAN0401	WATERS2	01/04/01	16:44	ma	B	CONC
76	SS I	JAN0401	WATERS2	01/04/01	16:50	ma	Q	CONC
77	SS I LOW	JAN0401	WATERS2	01/04/01	16:55	ma	Q	CONC
78	ICS A	JAN0401	WATERS2	01/04/01	17:01	ma	Q	CONC
79	ICS AB	JAN0401	WATERS2	01/04/01	17:07	ma	Q	CONC

#	Element	STD'lank	STD8	STD3	STD4	STD2	ICV 2
1	Ag3280	-.00113	.86453				1.008
2	Al3082	.03033		.1101			Q.8664
3	As1890	-.005			.41979		.9992
4	Ba4934	.00004				2.71178	.9930
5	Be3130	-.00294		1.54451			Q1.060
6	Ca3179	.00111				.05884	.9851
7	Cd2265	-.00095				1.22765	.9812
8	Co2286	-.00136				.93517	.9908
9	Cr2677	.00051			.63289		1.005
10	Cu3247	.00933				.79332	.9857
11	Fe2714	.00078		.0334			Q1.081
12	K_7664	.01415				2.82649	Q8.874
13	Mg2790	.00006				.05988	Q.9370
14	Mn2576	.00046				.7942	.9880
15	Ni2316	-.00339		.62654			.9954
16	2203/1	.00681				2.94645	.9786
17	2203/2	.00336				2.71087	.9753
18	1960/1	-.04216			1.6804		1.000
19	1960/2	.0116			.77759		.9950
20	Sb2068	.00245		.53857			.9892
21	Sn1899	-.00099		.34585			.9864
22	Tl1908	-.00135		.17371			1.003
23	V_2924	-.00002			.01494		.9914
24	Zn2062	-.00024				.16771	.9859
25	Pb2203						.9778
26	Se1960						.9987

#	Element	ICV 1	ICB	ICS A	ICS AB	SS I	SS I LOW
1	Ag3280	.2002	.0002	.0004	.3187	.0012	.0004
2	Al3082	Q-.0016	-.3361	56.27	58.41	Q-.2268	-.2921
3	As1890	.1928	-.0034	-.0036	1.046	.0402	Q.0066
4	Ba4934	.1996	.0002	.0003	.2991	.0403	.0105
5	Be3130	Q.2113	.0002	-.0001	.1023	.0010	.0002
6	Ca3179	.1986	-.0050	48.55	50.03	.0858	.0107
7	Cd2265	.1967	.0005	.0061	.3055	.0011	.0003
8	Co2286	.1975	.0002	.0012	.3024	.0104	.0027
9	Cr2677	.2000	-.0006	-.0008	.3032	.0035	Q.0002
10	Cu3247	.1957	-.0007	Q.0322	.3409	Q.0039	-.0001
11	Fe2714	Q.2248	-.0117	48.43	50.03	Q.0452	.0206
12	K_7664	Q1.671	.0117	Q.2206	Q25.43	.0000	.0028
13	Mg2790	Q.1838	-.0030	48.61	49.97	.0183	-.0003
14	Mn2576	.1973	-.0002	.0011	.2014	.0101	.0025
15	Ni2316	.1993	.0010	.0026	.3048	Q.0120	Q.0048
16	2203/1	.1934	-.0002	.0160	1.047	.0107	.0031
17	2203/2	.1935	.0012	.0029	1.034	.0103	.0032
18	1960/1	.2039	.0055	.0145	.5495	.0530	.0163
19	1960/2	.2037	-.0002	-.0012	.5342	.0372	.0124
20	Sb2068	.1976	.0002	.0062	1.051	.0089	.0026
21	Sn1899	.1976	.0005	-.0011	1.040	.0016	-.0028
22	Tl1908	.2006	.0013	Q.0376	1.117	.0471	.0106
23	V_2924	.1968	.0000	.0036	.3039	.0094	Q.0036

#	Element	ICV 1	ICB	ICS A	ICS AB	SS I	SS I LOW
24	Zn2062	.1964	-.0002	.0032	.3012	.0104	.0029
25	Pb2203	.1937	.0005	.0119	1.043	.0108	Q.0034
26	Se1960	.2041	.0038	.0092	.5443	.0480	Q.0152

#	Element	05599 TL	05601 TL	05619 TL	05621 TL	ICV 2	ICV 1
1	Ag3280	.0004	.0004	.0002	.0001	.9777	.1987
2	Al3082	.2364	.0170	.0900	-.0251	Q.8655	Q.0711
3	As1890	-.0052	-.0052	-.0042	-.0058	.9871	.1992
4	Ba4934	.0598	.0172	.0280	.0495	.9465	.1935
5	Be3130	.0001	.0000	.0000	.0001	1.043	Q.2126
6	Ca3179	3.877	2.040	2.834	4.318	.9556	.1911
7	Cd2265	-.0004	.0002	-.0002	-.0002	Q.9443	.1937
8	Co2286	.0013	.0001	.0006	.0006	.9580	.1956
9	Cr2677	-.0002	-.0005	-.0003	-.0007	.9665	.1967
10	Cu3247	.0273	.0109	.0054	.0059	.9452	.1895
11	Fe2714	.0087	5.586	.1169	.0106	1.045	Q.2143
12	K_7664	.5187	1.039	.7570	1.177	Q8.260	Q1.604
13	Mg2790	4.346	.8079	2.732	1.755	Q.8790	Q.1786
14	Mn2576	.0149	.0218	.0101	.0119	.9571	.1951
15	Ni2316	.0015	.0015	.0028	.0021	.9516	.1960
16	2203/1	.0024	.0030	.0025	.0019	.9479	.1909
17	2203/2	.0023	-.0004	.0020	.0000	.9613	.1948
18	1960/1	-.0011	.0055	.0025	.0085	.9563	.1998
19	1960/2	-.0017	.0025	-.0024	.0027	.9723	.1952
20	Sb2068	.0011	.0015	-.0013	-.0004	Q.9410	.1899
21	Sn1899	-.0021	.0059	-.0017	.0040	.9501	.1972
22	Tl1908	.0002	.0034	-.0011	.0011	.9801	.2013
23	V_2924	.0001	.0001	-.0011	.0001	.9491	.1936
24	Zn2062	.0177	.0422	.0171	.0114	.9487	.1925
25	Pb2203	.0026	.0021	.0026	.0015	.9526	.1924
26	Se1960	-.0011	.0047	.0011	.0068	.9618	.1985

#	Element	ICB	QMW'0810	QMW'2LCS	QMW'LCSD	06007	05540
			10.49				
1	Ag3280	.0006	.0003	1.003	1.032	.0020	-.0003
2	Al3082	-.2462	-.2609	.8871	.9892	4.390	143.2
3	As1890	-.0027	.0012	1.020	1.035	-.0036	.0018
4	Ba4934	.0003	.0001	1.002	1.040	.1568	1.023
5	Be3130	.0004	.0001	1.028	1.040	.0002	.0105
6	Ca3179	-.0100	.0197	1.015	1.036	25.33	208.4
7	Cd2265	.0002	-.0002	.9892	.9983	.0028	.0070
8	Co2286	.0010	.0005	.9985	1.013	.0044	.0012
9	Cr2677	-.0005	-.0008	1.002	1.014	.0414	.1758
10	Cu3247	-.0026	-.0029	.9984	1.042	.1328	.0868
11	Fe2714	-.0194	.0028	1.120	1.226	5.387	80.27
12	K_7664	.0047	-.0054	9.633	9.794	88.23	6.942
13	Mg2790	-.0035	.0013	.9305	.9525	2.758	11.52
14	Mn2576	-.0001	-.0002	1.007	1.018	.1130	.7592
15	Ni2316	.0024	.0021	.9905	1.004	.0138	.0246
16	2203/1	-.0012	.0013	.9814	.9958	.0800	.1520
17	2203/2	-.0005	-.0007	.9956	1.015	.0781	.1247

#	Element	ICB	QMW'0810	QMW'2LCS	QMW'LCSD	06007	05540
			8·10				11·12
18	1960/1	.0098	.0047	.9672	.9911	.0055	.0294
19	1960/2	-.0006	.0001	.9898	1.013	.0017	.0167
20	Sb2068	.0005	.0013	.9840	1.006	.0133	.0180
21	Sn1899	-.0003	-.0007	2.032	2.054	.0134	.0034
22	Tl1908	.0034	.0017	1.029	1.046	.0036	.0629
23	V_2924	-.0021	-.0021	.9919	1.013	.0119	.1678
24	Zn2062	.0007	.0009	.9833	.9767	2.000	.0833
25	Pb2203	-.0007	.0009	.9864	1.002	.0796	.1432
26	Se1960	.0065	.0034	.9749	.9984	.0045	.0245

#	Element	05540 D	05540 MS	055' MSD	ICV 2	ICV 1	ICB
1	Ag3280	-.0001	.9965	1.028	1.021	.1982	.0005
2	Al3082	137.0	167.3	185.9	1.005	Q.0508	-.2247
3	As1890	.0019	.9531	.9873	1.027	.1984	-.0013
4	Ba4934	.9983	1.974	2.049	.9863	.1931	.0003
5	Be3130	.0096	.9737	1.001	Q1.099	Q.2144	.0004
6	Ca3179	195.4	211.5	217.0	Q1.099	Q.2288	.0019
7	Cd2265	.0066	.9148	.9422	.9873	.1927	-.0002
8	Co2286	.0011	.9338	.9604	.9991	.1948	.0011
9	Cr2677	.1629	1.085	1.125	1.005	.1953	-.0005
10	Cu3247	.0761	1.116	1.154	.9934	.1896	-.0037
11	Fe2714	75.87	83.28	87.00	Q1.138	Q.2242	-.0133
12	K_7664	6.822	20.11	21.35	Q8.575	Q1.572	-.0219
13	Mg2790	11.13	12.67	13.31	Q.9167	Q.1778	-.0004
14	Mn2576	.7175	1.683	1.730	.9989	.1951	-.0001
15	Ni2316	.0225	.9484	.9781	.9860	.1932	.0019
16	2203/1	.1402	1.092	1.134	.9864	.1934	.0010
17	2203/2	.1189	1.093	1.122	.9947	.1933	.0004
18	1960/1	.0249	.9432	.9831	.9877	.2020	.0061
19	1960/2	.0176	.9670	.9938	1.008	.1989	-.0020
20	Sb2068	.0178	.3250	.3243	.9730	.1924	.0008
21	Sn1899	.0025	1.325	1.383	.9941	.1923	.0015
22	Tl1908	.0615	1.087	1.127	1.038	.2015	.0057
23	V_2924	.1563	1.089	1.125	.9890	.1936	-.0009
24	Zn2062	.0751	.9611 96	.9858 100	.9839	.1897	.0002
25	Pb2203	.1334	1.092	1.130	.9894	.1936	.0010
26	Se1960	.0219	.9504	.9858	.9947	.2012	.0036

MS/MSD
RPD = 4·1

#	Element	QMW'1240	QMW'5LCS	QMW'LCSD	05637	05639	05641
1	Ag3280	.0004	.9823	.8974	.0007	.0006	.0003
2	Al3082	-.1426	.9493	.9760	-.2825	-.4874	-.4683
3	As1890	-.0014	1.043	1.031	-.0040	-.0006	-.0058
4	Ba4934	.0002	1.008	1.004	.0189	.0484	.0566
5	Be3130	.0001	1.063	1.056	.0004	.0002	.0001
6	Ca3179	.0747	1.086	1.078	7.046	72.22	48.90
7	Cd2265	-.0002	1.002	1.001	.0009	.0000	.0017
8	Co2286	.0009	1.018	1.014	.0014	.0012	.0019
9	Cr2677	-.0003	1.016	1.008	.0002	.0009	.0001
10	Cu3247	-.0021	1.021	1.017	.0009	.0065	.0087
11	Fe2714	-.0061	1.119	1.099	15.79	3.949	21.54

#	Element	QMW'1240	QMW'5LCS	QMW'LCSD	05637	05639	05641
12	K_7664	.0095	9.139	9.147	1.433	7.252	4.124
13	Mg2790	.0022	.9274	.9146	2.890	14.41	14.53
14	Mn2576	.0004	1.022	1.015	.0185	.1173	.3259
15	Ni2316	.0027	.9996	.9915	.0027	.0035	.0024
16	2203/1	.0008	.9992	.9991	.0058	.0039	.0052
17	2203/2	.0006	1.027	1.018	-.0005	-.0009	-.0000
18	1960/1	.0026	.9733	.9648	.0024	.0008	.0010
19	1960/2	.0036	1.005	.9946	-.0015	.0016	-.0013
20	Sb2068	.0017	.9861	.9809	.0014	.0014	.0029
21	Sn1899	-.0027	2.078	2.068	.0027	-.0004	.0017
22	Tl1908	.0038	1.050	1.052	.0174	.0041	.0189
23	V_2924	.0002	1.008	.9979	.0001	.0001	.0001
24	Zn2062	.0010	.9988	.9908	.0103	.0130	.0100
25	Pb2203	.0010	1.009	1.006	.0040	.0026	.0037
26	Se1960	.0032	.9842	.9749	.0013	.0013	.0004

#	Element	05643	05644	05645	05646	ICV 2	ICV 1
1	Ag3280	.0003	.0007	.0005	.0003	1.023	.2039
2	Al3082	-1.961	-.1319	.2307	.6121	.9788	Q.1085
3	As1890	-.0153	-.0050	-.0005	-.0006	1.033	.2064
4	Ba4934	.0244	.0004	.0230	.0283	.9702	.1958
5	Be3130	.0000	.0001	.0002	.0000	Q1.110	Q.2219
6	Ca3179	43.89	.0889	6.443	15.83	1.003	.1909
7	Cd2265	.0188	-.0001	-.0006	-.0006	.9765	.1957
8	Co2286	.0000	.0008	.0014	.0016	.9960	.2000
9	Cr2677	.0002	-.0002	.0008	.0086	.9943	.1982
10	Cu3247	.0477	-.0043	-.0021	.0003	.9894	.1934
11	Fe2714	234.2	.0589	1.360	2.264	Q1.099	Q.2232
12	K_7664	1.836	.0031	2.197	2.146	Q8.102	Q1.551
13	Mg2790	6.497	.0065	1.964	4.447	Q.8848	Q.1740
14	Mn2576	1.056	.0011	.0695	.1571	.9979	.2002
15	Ni2316	.0265	.0020	.0033	.0038	.9679	.1965
16	2203/1	.0293	.0035	.0043	.0036	.9819	.1935
17	2203/2	.0026	-.0002	.0006	-.0011	1.007	.1988
18	1960/1	-.0092	.0046	.0048	.0039	.9662	.1973
19	1960/2	-.0255	-.0029	.0004	.0014	1.002	.2014
20	Sb2068	.0061	.0018	.0005	.0019	.9558	.1947
21	Sn1899	.0024	.0000	.0058	-.0004	.9881	.1993
22	Tl1908	.1786	-.0001	.0037	-.0011	1.045	.2109
23	V_2924	.0035	-.0033	.0003	.0012	.9780	.1950
24	Zn2062	.0337	.0077	.0492	.0279	.9732	.1950
25	Pb2203	.0206	.0025	.0033	.0023	.9905	.1955
26	Se1960	-.0144	.0023	.0035	.0032	.9785	.1989

#	Element	ICB	05647	05647 D	05647 MS	ICV 1	ICV 2
1	Ag3280	.0004	.0007	.0004	.8685	.2008	1.015
2	Al3082	-.1389	-.2102	-.2054	.9509	Q.1692	1.003
3	As1890	-.0041	-.0029	-.0050	1.032	.2028	1.031
4	Ba4934	.0002	.0348	.0345	1.031	.2003	.9684
5	Be3130	.0003	.0001	.0000	1.071	Q.2136	Q1.102

#	Element	ICB	05647	05647 D	05647 MS	ICV 1	ICV 2
6	Ca3179	-.0165	26.76	26.70	28.82	Q.1799	.9824
7	Cd2265	-.0000	-.0001	-.0004	.9909	Q.1815	.9589
8	Co2286	.0008	.0013	.0004	1.014	Q.1832	.9791
9	Cr2677	-.0003	.0050	-.0000	.9983	.1904	.9828
10	Cu3247	-.0051	-.0010	-.0014	1.032	.2023	.9958
11	Fe2714	-.0240	2.097	2.015	3.181	Q.2514	Q1.113
12	K_7664	.0095	4.077	3.984	14.32	Q1.559	Q7.981
13	Mg2790	.0011	2.663	2.651	3.700	Q.1785	Q.8716
14	Mn2576	-.0002	.1645	.1640	1.182	.1935	.9908
15	Ni2316	.0029	.0029	.0019	.9866	.1968	.9597
16	2203/1	.0011	.0024	.0018	1.012	.1709	.9398
17	2203/2	-.0018	-.0010	.0001	1.031	.1854	.9746
18	1960/1	.0073	.0054	.0025	.9633	.2075	.9673
19	1960/2	-.0054	-.0030	-.0008	.9883	.2071	.9902
20	Sb2068	.0013	.0017	.0018	.9737	.1976	.9506
21	Sn1899	-.0007	.0000	.0003	2.078	Q.1864	.9844
22	Tl1908	.0037	.0030	.0008	1.079	.2016	1.041
23	V_2924	.0001	.0013	-.0011	.9916	.1917	.9689
24	Zn2062	.0001	.1520	.1067	1.088	Q.1778	.9610
25	Pb2203	.0004	.0015	.0015	1.019	Q.1760	.9517
26	Se1960	.0033	.0028	.0016	.9718	.2076	.9751

#	Element	ICB	05647	05647 D	05647 MS	056' MSD	05648
1	Ag3280	.0006	.0008	.0005	.9544	.8990	.0005
2	Al3082	-.0789	-.1706	-.1556	1.023	1.048	.4602
3	As1890	-.0005	-.0003	.0008	1.045	1.031	-.0058
4	Ba4934	.0003	.0347	.0347	1.060	1.059	.0499
5	Be3130	.0002	.0001	-.0000	1.067	1.036	.0005
6	Ca3179	-.0189	26.54	26.48	28.44	26.70	15.01
7	Cd2265	-.0019	-.0013	-.0014	.9848	.9571	.0008
8	Co2286	-.0025	-.0017	-.0012	1.011	.9855	.0010
9	Cr2677	-.0004	.0002	-.0002	.9926	.9601	.0046
10	Cu3247	-.0051	-.0012	-.0013	1.068	1.074	.0058
11	Fe2714	.0004	2.073	2.025	3.186	3.076	20.55
12	K_7664	.0017	4.026	3.942	14.67	14.48	4.071
13	Mg2790	-.0033	2.645	2.651	3.752	3.631	4.207
14	Mn2576	-.0001	.1634	.1634	1.181	1.145	.0838
15	Ni2316	.0055	.0054	.0043	.9833	.9623	.0044
16	2203/1	-.0061	-.0006	-.0012	.9964	.9781	.0039
17	2203/2	-.0020	-.0024	.0008	1.027	1.014	.0020
18	1960/1	.0080	.0058	.0083	.9773	.9603	.0038
19	1960/2	.0002	.0011	-.0017	1.011	1.006	-.0038
20	Sb2068	.0027	.0023	.0027	.9875	.9741	.0039
21	Sn1899	.0015	.0005	-.0008	2.079	2.045	.0016
22	Tl1908	.0021	.0014	.0001	1.100	1.092	.0193
23	V_2924	.0001	.0001	-.0011	.9970	.9742	.0036
24	Zn2062	-.0006	.1118	.1083	1.063	1.026	.0194
25	Pb2203	-.0044	-.0009	-.0003	1.007	.9901	.0035
26	Se1960	.0056	.0044	.0052	.9887	.9759	.0015

#	Element	05682	05684	05686	05687	05688	ICV 2
1	Ag3280	.0004	.0006	.0005	.0003	.0001	1.018
2	Al3082	.3661	.2836	.4442	1.436	1.579	Q1.155
3	As1890	-.0052	-.0023	-.0087	-.0023	-.0065	1.024
4	Ba4934	.1072	.1078	.0479	.0779	.0478	.9717
5	Be3130	.0001	-.0000	.0002	.0001	.0000	Q1.111
6	Ca3179	27.71	20.81	.9710	12.95	8.735	.9911
7	Cd2265	-.0008	-.0001	-.0009	-.0012	-.0013	.9676
8	Co2286	.0004	.0008	.0003	-.0006	.0002	.9893
9	Cr2677	.0001	.0004	.0023	.0021	.0015	.9846
10	Cu3247	.0004	.0029	.0043	.1311	.0344	.9957
11	Fe2714	.3831	8.042	.2605	-.0004	.7478	Q1.086
12	K_7664	11.72	34.88	.2808	1.140	1.601	Q7.829
13	Mg2790	7.679	8.618	.7263	5.132	2.234	Q.8801
14	Mn2576	.0198	.0997	.0104	.0026	.0247	.9909
15	Ni2316	.0029	.0059	.0044	.0049	.0043	.9552
16	2203/1	.0020	.0045	-.0001	.0089	.0029	.9731
17	2203/2	-.0008	-.0014	-.0003	.0083	.0006	.9986
18	1960/1	.0044	.0045	.0021	.0078	.0044	.9637
19	1960/2	-.0020	.0011	.0019	-.0023	-.0031	.9976
20	Sb2068	.0022	.0021	.0021	.0019	.0017	.9470
21	Sn1899	.0002	-.0022	-.0026	-.0003	-.0001	.9890
22	Tl1908	.0011	.0049	.0044	-.0030	.0009	1.038
23	V_2924	.0000	.0000	.0024	.0070	.0036	.9671
24	Zn2062	.0046	.1946	.0235	.0058	.0141	.9691
25	Pb2203	.0013	.0028	.0001	.0089	.0024	.9819
26	Se1960	.0025	.0036	.0022	.0046	.0021	.9752

#	Element	ICV 1	ICV 2	ICB	05689	05690	05691
1	Ag3280	.2042	1.040	.0009	-.0026	.0001	.0003
2	Al3082	Q.2572	1.035	.1230	-.9334	-.2273	.1498
3	As1890	.2030	1.049	-.0012	-.0051	-.0001	-.0026
4	Ba4934	.1949	.9947	.0004	.2169	.0158	.0428
5	Be3130	Q.2229	Q1.081	.0004	-.0001	-.0001	-.0001
6	Ca3179	Q.1873	.9965	-.0190	128.2	38.86	10.55
7	Cd2265	.1939	.9926	.0000	.0046	-.0009	-.0009
8	Co2286	.1989	1.013	.0013	.0248	.0166	-.0003
9	Cr2677	.1969	1.005	.0002	-.0005	-.0000	.0036
10	Cu3247	.1937	1.019	-.0046	.0277	.0112	-.0027
11	Fe2714	Q.2228	Q1.095	-.0274	47.13	3.550	.2465
12	K_7664	Q1.463	Q8.632	.0167	6.324	2.650	1.154
13	Mg2790	Q.1782	Q.8972	-.0001	41.49	12.82	3.937
14	Mn2576	.1988	1.015	.0000	18.94	1.921	.0116
15	Ni2316	.1938	.9784	.0029	.0140	.0076	.0054
16	2203/1	.1916	.9901	-.0000	.0067	.0007	.0006
17	2203/2	.2002	1.018	-.0013	.0004	-.0008	-.0002
18	1960/1	.1947	.9822	.0087	.0066	.0042	.0036
19	1960/2	.1946	1.026	-.0037	-.0082	.0007	.0002
20	Sb2068	.1913	.9620	.0013	.0043	.0028	.0022
21	Sn1899	.1968	1.030	-.0021	-.0024	-.0029	.0001
22	Tl1908	Q.2124	Q1.066	.0005	.0320	.0031	.0033
23	V_2924	.1951	.9916	.0013	.0016	.0034	.0012

#	Element	ICV 1	ICV 2	ICB	05689	05690	05691
24	Zn2062	.1945	.9876	.0004	.0158	.0060	.0088
25	Pb2203	.1947	.9996	-.0002	.0049	.0004	.0006
26	Se1960	.1949	.9971	.0048	.0018	.0033	.0027

#	Element	05692	05692 D	05692 MS	056' MSD	056':4SD	056'1MSA
1	Ag3280	.0004	.0004	1.094	1.079	.0044	.2099
2	Al3082	1.714	1.741	4.397	4.378	-.2819	.3271
3	As1890	-.0058	-.0030	1.082	1.059	.0089	.2047
4	Ba4934	.0342	.0322	1.076	1.060	.0197	.2198
5	Be3130	-.0001	-.0000	1.134	1.111	.0023	.2249
6	Ca3179	7.032	6.638	8.192	7.794	6.726	7.468
7	Cd2265	-.0008	-.0007	1.026	1.010	.0031	.1977
8	Co2286	.0023	.0016	1.056	1.039	.0093	.2057
9	Cr2677	.0032	.0030	1.040	1.028	-.0023	.2032
10	Cu3247	.0004	-.0004	1.088	1.071	-.0181	.2028
11	Fe2714	2.625	2.580	4.054	4.015	13.86	16.40
12	K_7664	1.173	1.092	10.79	10.54	1.584	3.251
13	Mg2790	3.939	3.733	4.936	4.747	2.546	3.098
14	Mn2576	.1503	.1419	1.205	1.183	.5059	.2239
15	Ni2316	.0048	.0044	1.016	1.003	.0286	.2010
16	2203/1	.0036	.0041	1.038	1.015	.0135	.2045
17	2203/2	-.0001	-.0001	1.074	1.051	-.0020	.2016
18	1960/1	.0041	.0032	.9881	.9592	.1034	.2025
19	1960/2	-.0001	-.0013	1.037	1.006	-.0527	.2017
20	Sb2068	.0018	.0032	1.002	.9865	-.0135	.1927
21	Sn1899	-.0023	-.0017	2.169	2.131	.0282	.2056
22	Tl1908	.0023	.0039	1.123	1.104	.0410	.2349
23	V_2924	.0083	.0070	1.039	1.023	.0008	.2040
24	Zn2062	.0316	.0068	1.031	1.005	1.772	.2116
25	Pb2203	.0026	.0030	1.050	1.027	.0096	.2040
26	Se1960	.0029	.0019	1.005	.9749	.0524	.2027

#	Element	ICV 2	ICV 1	ICB	SS I	SS I LOW	ICS A
1	Ag3280	1.031	.2014	.0008	Q.0016	.0008	.0008
2	Al3082	1.032	Q.2650	.1729	Q-.0034	-.0877	52.34
3	As1890	1.029	.2084	-.0026	.0434	.0081	-.0002
4	Ba4934	.9821	.1950	.0003	.0404	.0105	.0004
5	Be3130	Q1.071	Q.2225	.0003	.0011	.0003	.0001
6	Ca3179	.9967	Q.1841	-.0177	.0688	.0027	48.62
7	Cd2265	.9882	.1943	-.0000	.0011	-.0001	.0038
8	Co2286	1.004	.1976	.0010	.0114	Q.0037	.0019
9	Cr2677	1.002	.1960	-.0001	.0034	Q.0004	.0005
10	Cu3247	1.003	.1925	-.0045	Q-.0001	-.0038	Q.0262
11	Fe2714	Q1.085	Q.2146	-.0207	Q.0265	.0261	48.13
12	K_7664	Q8.358	Q1.447	.0129	-.0106	.0059	Q.2249
13	Mg2790	Q.8889	Q.1761	.0028	.0132	.0043	45.42
14	Mn2576	1.006	.1977	-.0001	.0102	.0024	.0012
15	Ni2316	.9714	.1937	.0039	Q.0131	Q.0064	.0046
16	2203/1	.9833	.1922	.0015	.0114	.0047	.0200
17	2203/2	1.014	.1965	.0000	.0111	.0017	.0013

#	Element	ICV 2	ICV 1	ICB	SS I	SS I LOW	ICS A
18	1960/1	.9805	.1957	.0060	.0523	.0155	.0165
19	1960/2	1.017	.1934	-.0036	.0349	.0077	-.0069
20	Sb2068	.9557	.1921	.0005	.0089	.0032	.0051
21	Sn1899	1.025	.2006	.0000	.0000	-.0024	.0027
22	Tl1908	Q1.057	.2042	.0005	.0446	Q.0122	Q.0377
23	V_2924	.9858	.1903	.0001	.0105	Q.0047	.0013
24	Zn2062	.9853	.1944	.0007	.0111	.0032	.0032
25	Pb2203	.9938	.1939	.0013	.0116	Q.0039	.0140
26	Se1960	.9927	.1952	.0030	.0467	Q.0131	.0086

#	Element	ICS AB
1	Ag3280	.3250
2	Al3082	56.28
3	As1890	1.079
4	Ba4934	.2987
5	Be3130	.1076
6	Ca3179	51.29
7	Cd2265	.3026
8	Co2286	.3062
9	Cr2677	.3009
10	Cu3247	.3460
11	Fe2714	51.18
12	K_7664	23.02
13	Mg2790	48.43
14	Mn2576	.2043
15	Ni2316	.3002
16	2203/1	1.048
17	2203/2	1.068
18	1960/1	.5347
19	1960/2	.5415
20	Sb2068	1.030
21	Sn1899	1.057
22	Tl1908	1.169
23	V_2924	.3035
24	Zn2062	.2974
25	Pb2203	1.055
26	Se1960	.5369

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\010201\01020108.D
Acq On : 2 Jan 2001 17:02
Sample : AC05535
Misc : 26563 1000mL
IntFile : events.e
Quant Time: Jan 2 17:57 2001 Quant Results File: PRO1208.RES

Vial: 8
Operator: MT
Inst : DRO-B
Multiplr: 1.00

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.10	1356729	29.384 ug/mlm
Spiked Amount 50.000		Recovery =	58.77% x MT
3) SC C(39)	34.37	1922713	43.767 ug/mlm
Spiked Amount 300.000		Recovery =	14.59% x MT
Target Compounds			
1) HM Florida PRO	3.70	26529792	466.454 ug/ml /1000 =

6.475 Bppm
MT

(f)=RT Delta > 1/2 Window (m)=manual int.

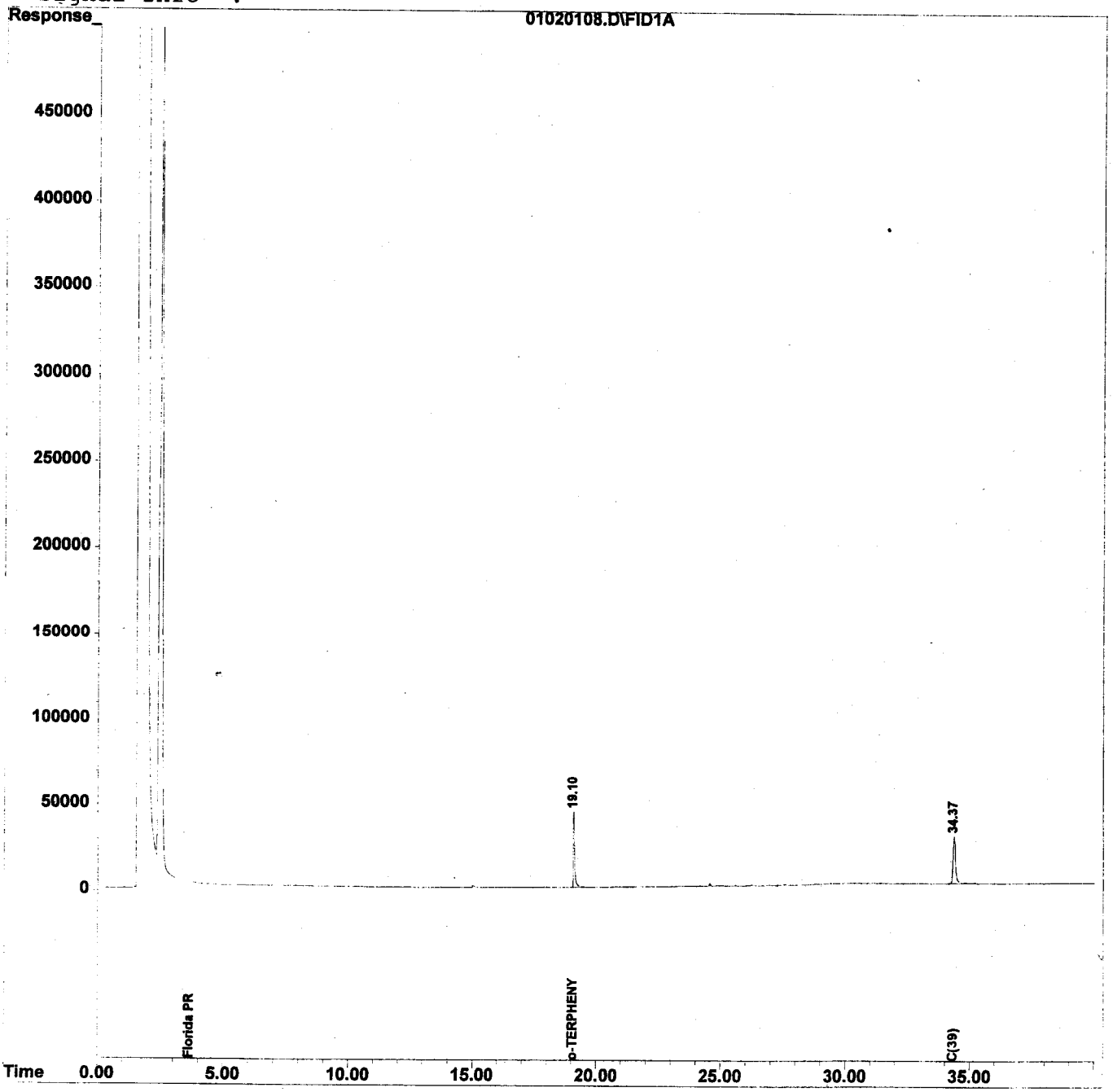
Quantitation Report

Data File : C:\HPCHEM\2\DATA\010201\01020108.D
Acq On : 2 Jan 2001 17:02
Sample : AC05535
Misc : 26563 1000mL
IntFile : events.e
Quant Time: Jan 2 17:57 2001 Quant Results File: PRO1208.RES

Vial: 8
Operator: MT
Inst : DRO-B
Multiplr: 1.00

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\122900\C18253.D
Acq On : 29 Dec 2000 17:19
Sample : AC05535 25ml DF=1
Misc : 2656~~2~~3/C12140025 VR
MS Integration Params: rteint.p
Quant Time: Dec 29 17:45 2000

Vial: 4
Operator: TAG/VR
Inst : VOA-C
Multiplr: 1.00

Quant Results File: 12290025.RES

Quant Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 10:24:33 2000
Response via : Initial Calibration
DataAcq Meth : 12290025

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	6.47	168	480379	10.00 ug\L	0.00
45) Chlorobenzene-d5	12.79	117	312091	10.00 ug\L	0.02
61) 1,4-Dichlorobenzene-d4	16.90	152	154548	10.00 ug\L	0.00
System Monitoring Compounds					
32) 1,2-Dichloroethane-d4	6.96	65	78265	8.21 ug\L	0.02
Spiked Amount 10.000	Range 80 - 120		Recovery = 82.10%		
46) Toluene-d8	10.27	98	426695	9.23 ug\L	-0.01
Spiked Amount 10.000	Range 87 - 104		Recovery = 92.30%		
65) Bromofluorobenzene	14.86	95	200310	9.35 ug\L	-0.01
Spiked Amount 10.000	Range 84 - 110		Recovery = 93.50%		
Target Compounds					Qvalue
34) Isobutyl alcohol	7.09	43	76	~~26.41 ug\L #~~	17
36) Trichloroethene	7.76	95	12547	~~0.55 ug\L #~~	9
64) 1,4-dichloro-2-Butene	14.86	75	100632	~~21.01 ug\L #~~	100
68) 1,2,3-Trichloropropane	14.86	75	100632	~~21.01 ug\L #~~	100
83) 1,2,4-trichlorobenzene	20.46	180	7925	0.57 ug\L	100
85) Naphthalene	20.88	128	11777	2.01 ug\L	100
86) 1,2,3-Trichlorobenzene	21.32	180	8839	0.91 ug\L #	87

VR
01/02/01

(#) = qualifier out of range (m) = manual integration

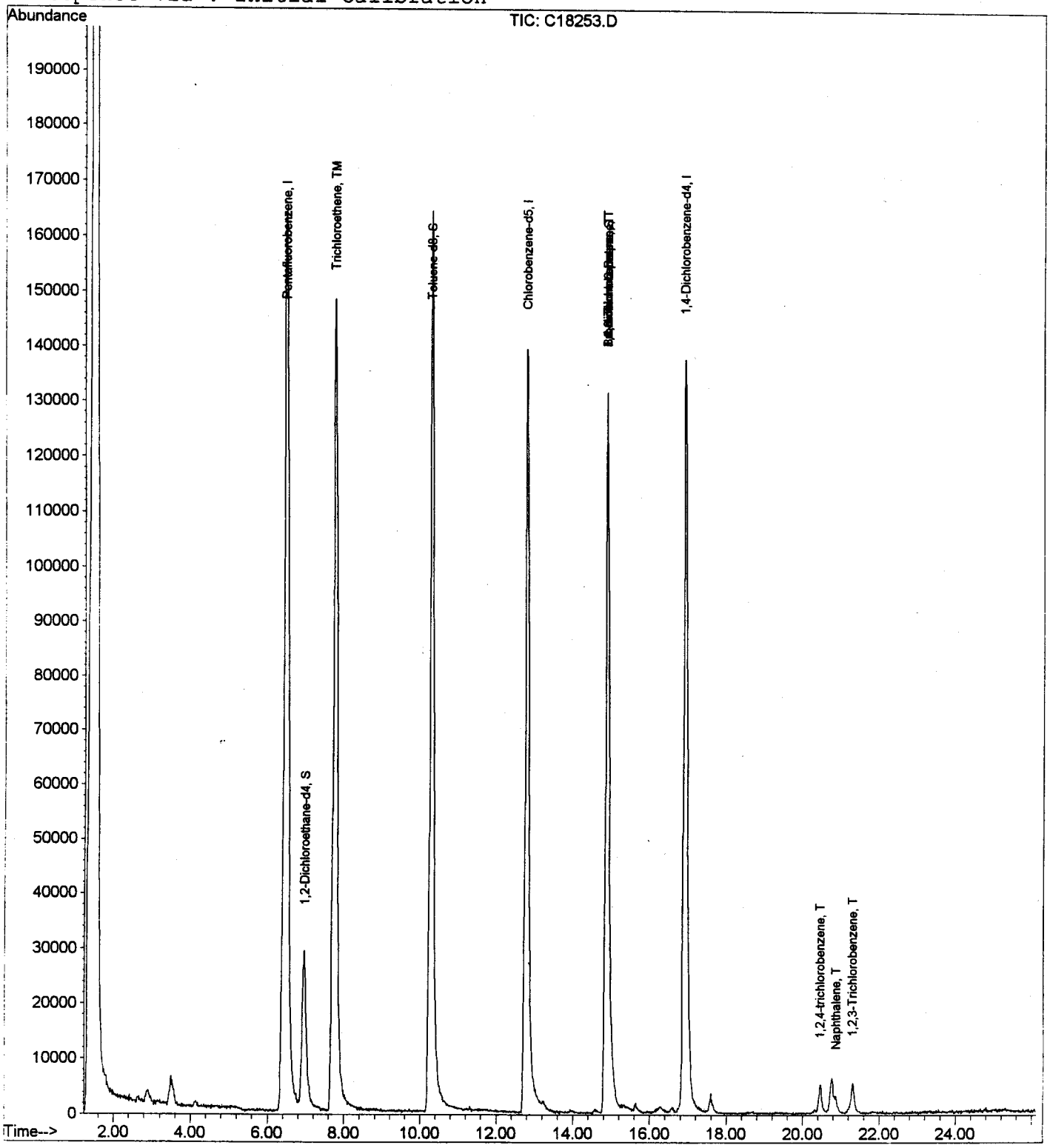
Quantitation Report

Data File : C:\HPCHEM\1\DATA\122900\C18253.D
Acq On : 29 Dec 2000 17:19
Sample : AC05535 25ml DF=1
Misc : 26562/C12140025
MS Integration Params: rteint.p
Quant Time: Dec 29 17:45 2000

Vial: 4
Operator: TAG/VR
Inst : VOA-C
Multiplr: 1.00

Quant Results File: 12290025.RES

Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 08:48:11 2000
Response via : Initial Calibration



1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

029-SMW01-Q4

Lab Name: Accura Analytical Lab. Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: AC05535

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: C18253.D

Level: (low/med) LOW Date Received: 12/21/00

% Moisture: not dec. _____ Date Analyzed: 12/29/00

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\122900\C18253.D
Acq On : 29 Dec 2000 17:19
Sample : AC05535 25ml DF=1
Misc : 26562/C12140025
MS Integration Params: LSCINT.P

Vial: 4
Operator: TAG/VR
Inst : VOA-C
Multiplr: 1.00

Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Smoothing : OFF
Sampling : 1
Start Thrs: 0.2
Stop Thrs : 0

Filtering: 5
Min Area: 1 % of largest Peak
Max Peaks: 100
Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

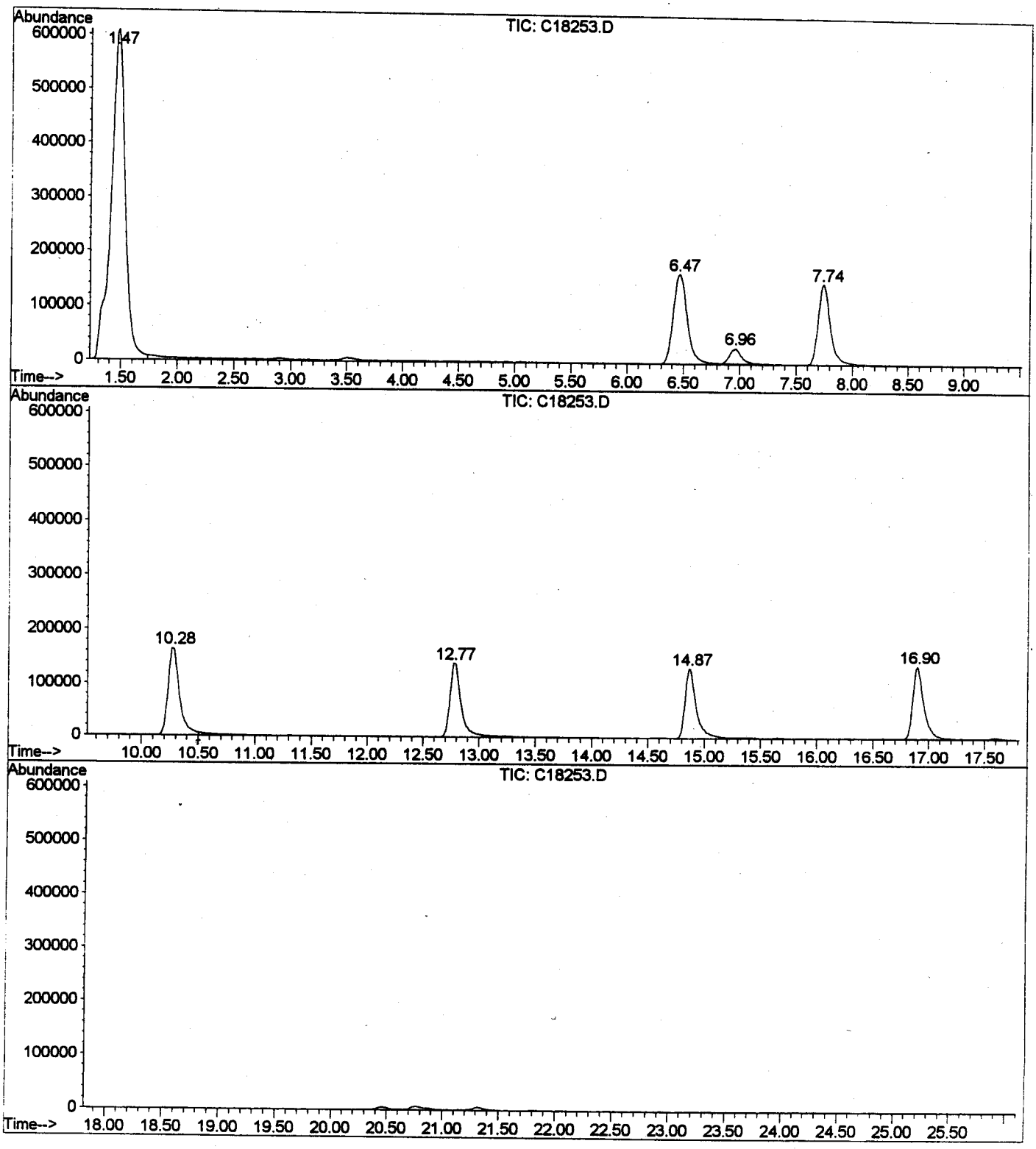
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	1.472	3	26	53	rBV	608216	5203155	100.00%	44.119%
2	6.472	513	533	559	rBV2	164348	1416340	27.22%	12.009%
3	6.965	569	583	600	rBV4	27295	191513	3.68%	1.624%
4	7.744	645	662	689	rBV2	148003	1102567	21.19%	9.349%
5	10.278	903	919	942	rBV	164247	1128916	21.70%	9.572%
6	12.773	1161	1172	1202	rBV3	139150	935623	17.98%	7.933%
7	14.874	1371	1385	1419	rBV2	131373	891965	17.14%	7.563%
8	16.896	1575	1590	1617	rBV	136597	923455	17.75%	7.830%

Sum of corrected areas: 11793534

C18253.D 12290025.M Thu Jan 04 10:19:07 2001 RPT1

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\122900\C18253.D
Operator : TAG/VR
Acquired : 29 Dec 2000 17:19 using AcqMethod 12290025
Instrument : VOA-C
Sample Name: AC05535 25ml DF=1
Misc Info : 26562/C12140025
Vial Number: 4
Quant File :12290025.RES (RTE Integrator)



C18253.D 12290025.M Thu Jan 04 10:19:08 2001 RPT1

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\122900\C18253.D
Acq On : 29 Dec 2000 17:19
Sample : AC05535 25ml DF=1
Misc : 26562/C12140025
MS Integration Params: LSCINT.P

Vial: 4
Operator: TAG/VR
Inst : VOA-C
Multiplr: 1.00

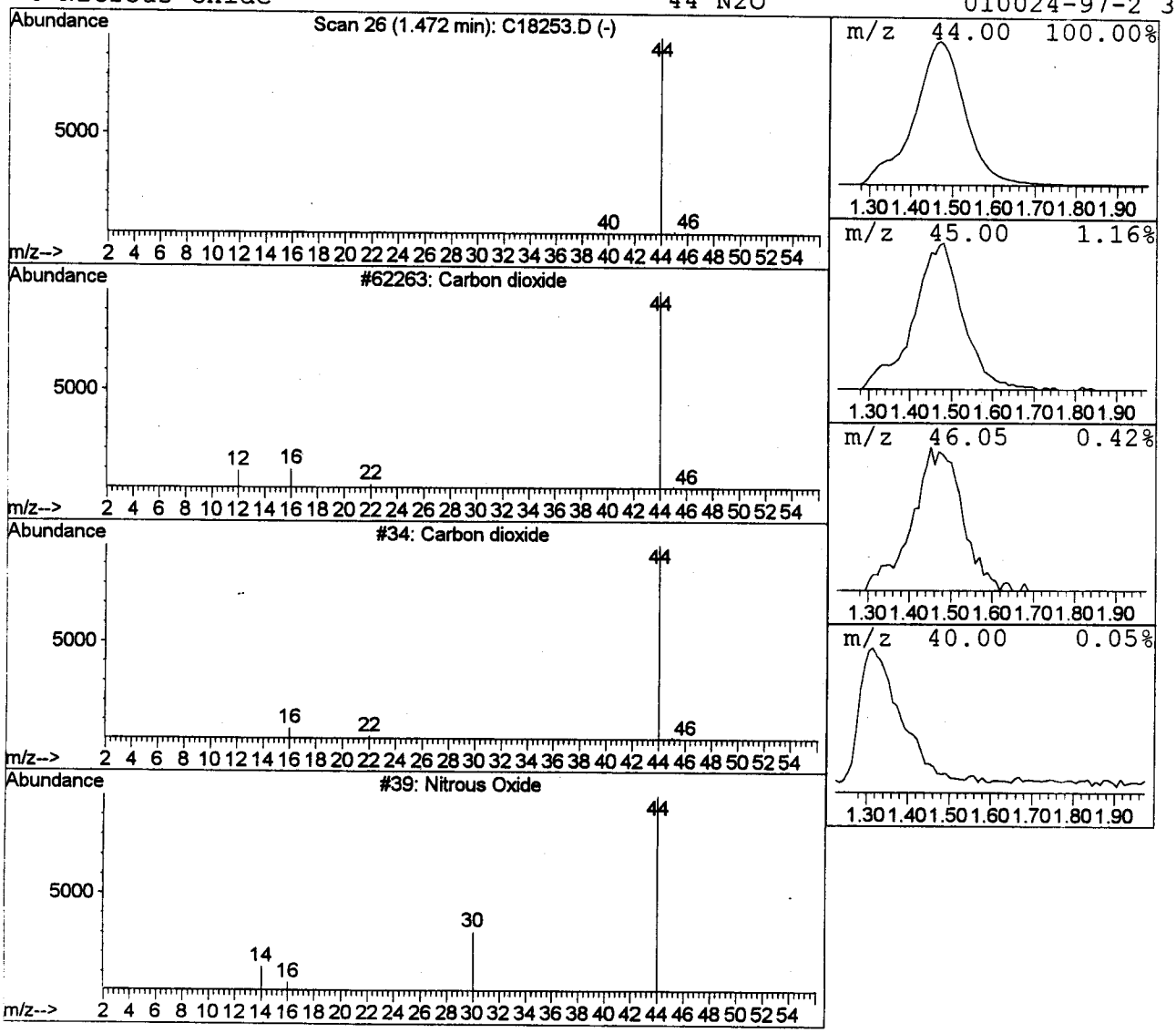
Quant Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

****

Peak Number 1 Carbon dioxide Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.47	36.74 ug\L	5203160	Pentafluorobenzene	6.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbon dioxide	44	CO2	000124-38-9	4
2	Carbon dioxide	44	CO2	000124-38-9	4
3	Nitrous Oxide	44	N2O	010024-97-2	3
4	Nitrous Oxide	44	N2O	010024-97-2	3



Data File : C:\HPCHEM\1\DATA\122900\C18253.D
Acq On : 29 Dec 2000 17:19
Sample : AC05535 25ml DF=1
Misc : 26562/C12140025
MS Integration Params: LSCINT.P

Vial: 4
Operator: TAG/VR
Inst : VOA-C
Multiplr: 1.00

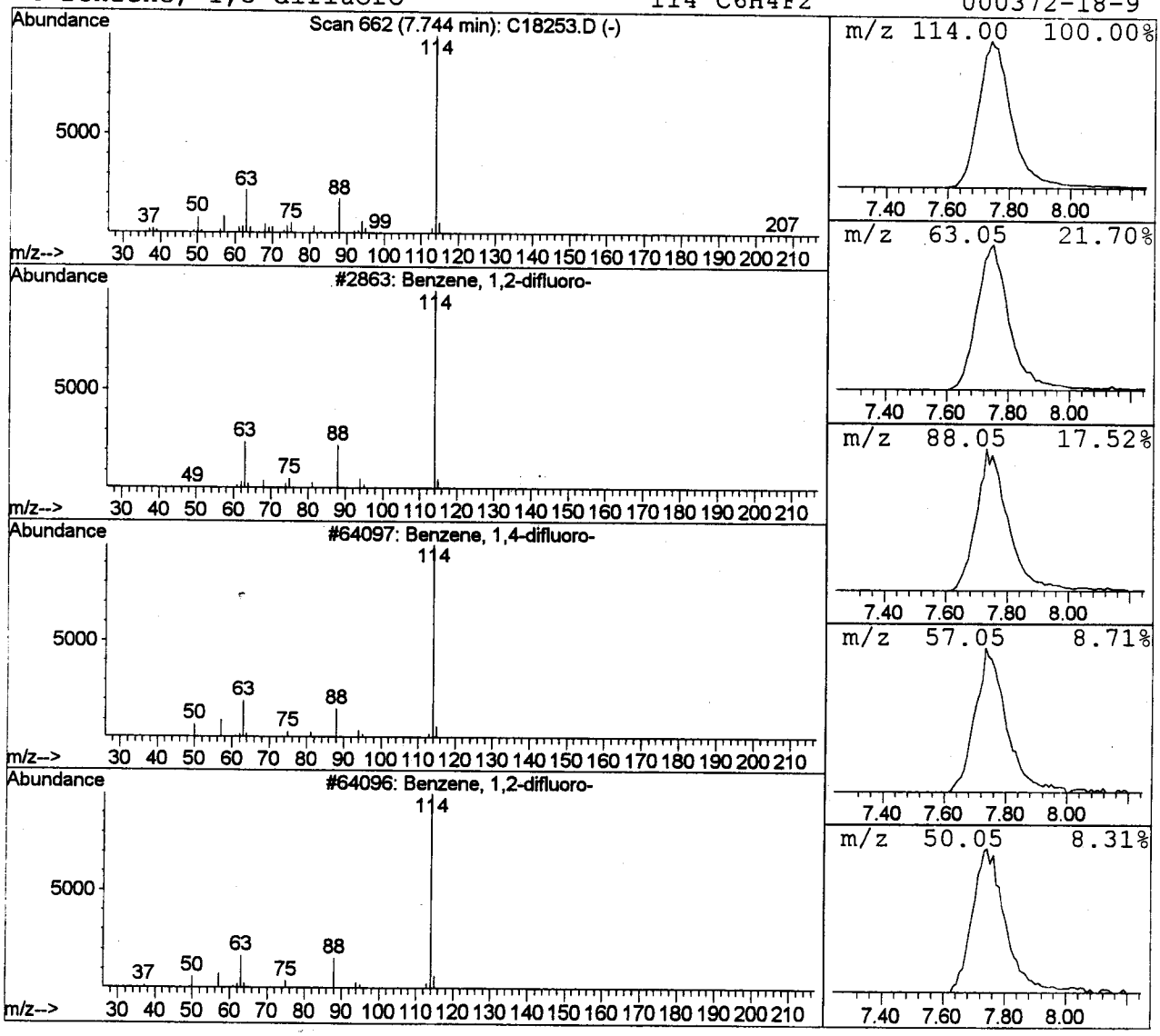
Quant Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

****

Peak Number 2 Benzene, 1,2-difluoro- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.74	7.78 ug\L	1102570	Pentafluorobenzene	6.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2-difluoro-	114	C6H4F2	000367-11-3	97
2	Benzene, 1,4-difluoro-	114	C6H4F2	000540-36-3	97
3	Benzene, 1,2-difluoro-	114	C6H4F2	000367-11-3	95
4	Benzene, 1,3-difluoro-	114	C6H4F2	000372-18-9	95



Tentatively Identified Compound (LSC) summary

Operator ID: TAG/VR Date Acquired: 29 Dec 2000 17:19
Data File: C:\HPCHEM\1\DATA\122900\C18253.D
Name: AC05535 25ml DF=1
Misc: 26562/C12140025
Method: c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title: 8260 CALIBRATION FOR 25ML WATER
Library Searched: C:\DATABASE\NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Carbon dioxide	1.47	36.7	ug\L	5203160	ISTD01	6.47	1416340	10.0
Benzene, 1,2-difluor	7.74	7.8	ug\L	1102570	ISTD01	6.47	1416340	10.0

C18253.D 12290025.M Thu Jan 04 10:19:12 2001 RPT1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\010201\01020109.D
Acq On : 2 Jan 2001 17:51
Sample : AC05536
Misc : 26563 1000mL
IntFile : events.e
Quant Time: Jan 2 18:39 2001 Quant Results File: PRO1208.RES

Vial: 9
Operator: MT
Inst : DRO-B
Multiplr: 1.00

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.10	1401907	30.362 ug/mlm
Spiked Amount 50.000		Recovery =	60.72% x MT
3) SC C(39)	34.36	827250	18.831 ug/mlm
Spiked Amount 300.000		Recovery =	6.28% x MT
Target Compounds			
1) HM Florida PRO	3.70	33094204	581.871 ug/ml /1000 =

0.58 JB ppm
MT

(f)=RT Delta > 1/2 Window (m)=manual int.

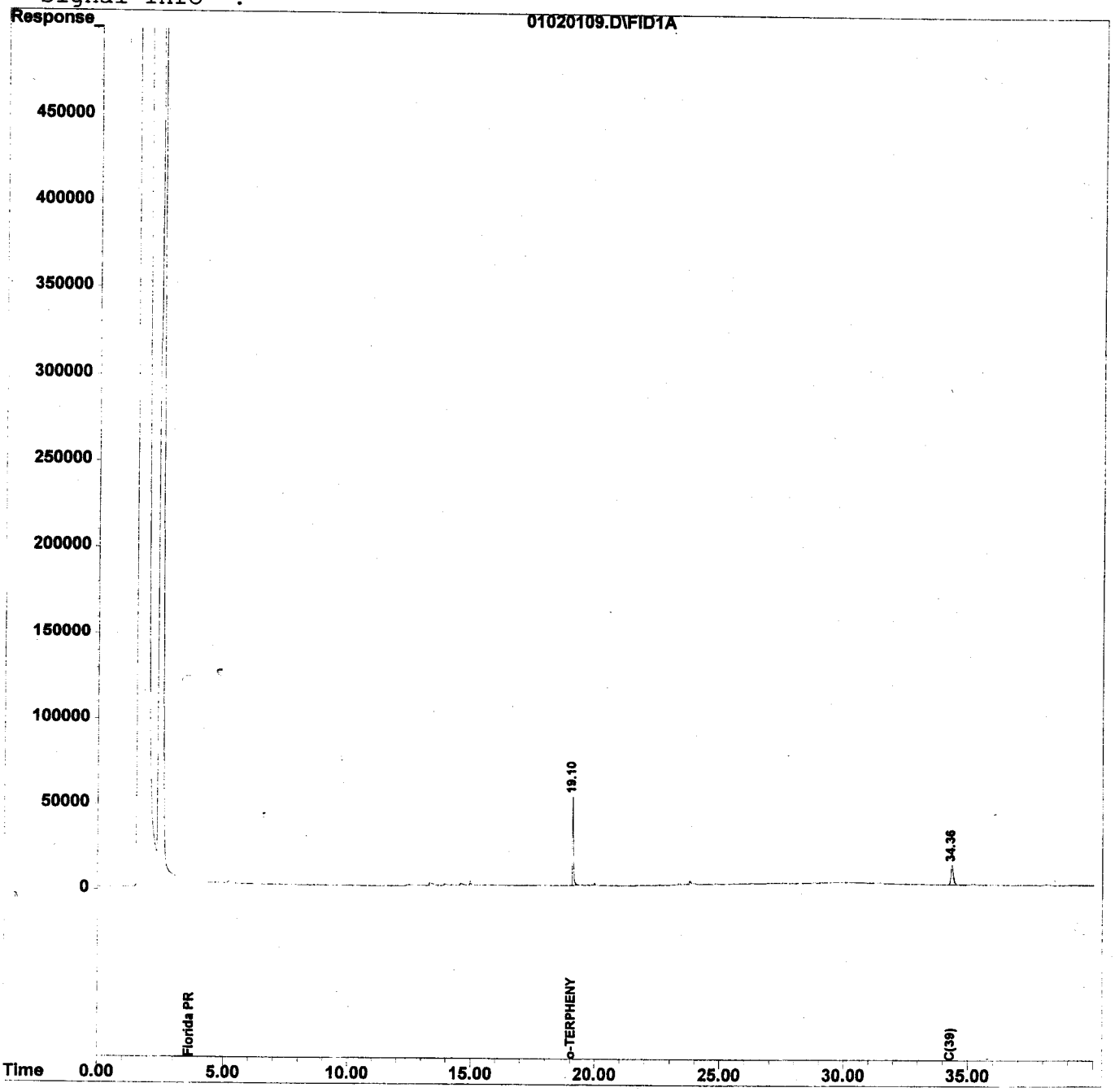
Quantitation Report

Data File : C:\HPCHEM\2\DATA\010201\01020109.D
Acq On : 2 Jan 2001 17:51
Sample : AC05536
Misc : 26563 1000mL
IntFile : events.e
Quant Time: Jan 2 18:39 2001 Quant Results File: PRO1208.RES

Vial: 9
Operator: MT
Inst : DRO-B
Multiplr: 1.00

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\122900\C18267.D
Acq On : 30 Dec 2000 00:52
Sample : AC05536 25ml DF=1
Misc : 26563/C12140025
MS Integration Params: rteint.p
Quant Time: Dec 30 1:19 2000

Vial: 3
Operator: TAG/VR
Inst : VOA-C
Multiplr: 1.00

Quant Results File: 12290025.RES

Quant Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 10:24:33 2000
Response via : Initial Calibration
DataAcq Meth : 12290025

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	6.47	168	435425	10.00 ug\L	0.00
45) Chlorobenzene-d5	12.77	117	299821	10.00 ug\L	0.00
61) 1,4-Dichlorobenzene-d4	16.90	152	144712	10.00 ug\L	0.01
System Monitoring Compounds					
32) 1,2-Dichloroethane-d4	6.96	65	73708	8.53 ug\L	0.01
Spiked Amount 10.000	Range 80 - 120		Recovery = 85.30%		
46) Toluene-d8	10.28	98	427453	9.63 ug\L	0.00
Spiked Amount 10.000	Range 87 - 104		Recovery = 96.30%		
65) Bromofluorobenzene	14.87	95	187372	9.34 ug\L	0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 93.40%		
Target Compounds					Qvalue
11) Acetone	3.07	58	60	~~2.24 ug\L #~~	1
64) 1,4-dichloro-2-Butene	14.87	75	92300	~~20.58 ug\L #~~	100
68) 1,2,3-Trichloropropane	14.87	75	92300	~~20.58 ug\L #~~	100
75) 1,2,4-Trimethylbenzene	16.30	105	32330	0.64 ug\L	86
85) Naphthalene	20.86	128	5698	1.50 ug\L	100

VR
01/02/2001

(#) = qualifier out of range (m) = manual integration

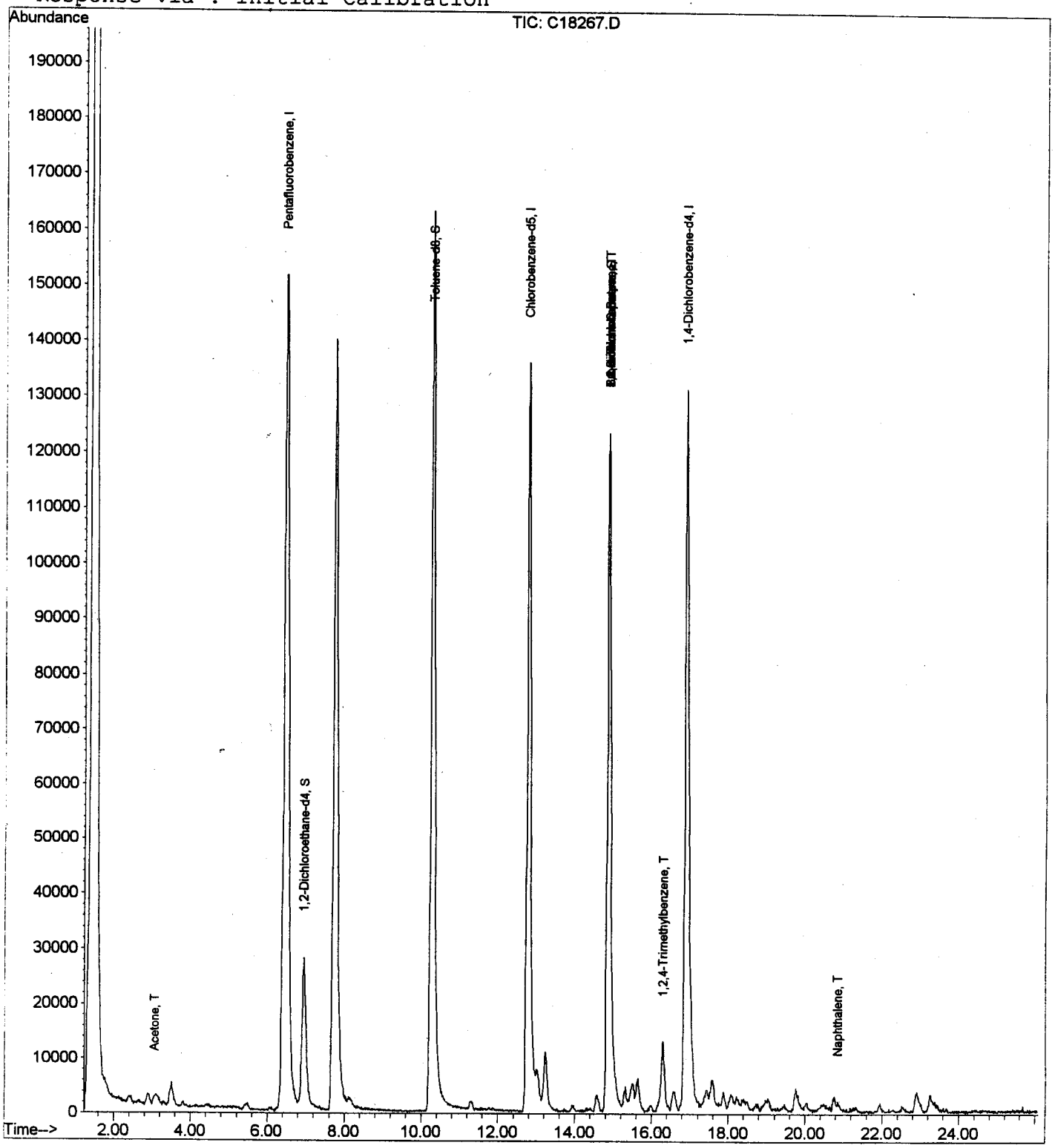
Quantitation Report

Data File : C:\HPCHEM\1\DATA\122900\C18267.D
Acq On : 30 Dec 2000 00:52
Sample : AC05536 25ml DF=1
Misc : 26563/C12140025
MS Integration Params: rteint.p
Quant Time: Dec 30 1:19 2000

Vial: 3
Operator: TAG/VR
Inst : VOA-C
Multiplr: 1.00

Quant Results File: 12290025.RES

Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 08:48:11 2000
Response via : Initial Calibration



1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

029-SMW02-Q4

Lab Name: Accura Analytical Lab. Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: AC05536

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: C18267.D

Level: (low/med) LOW Date Received: 12/21/00

% Moisture: not dec. _____ Date Analyzed: 12/30/00

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\122900\C18267.D Vial: 3
Acq On : 30 Dec 2000 00:52 Operator: TAG/VR
Sample : AC05536 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

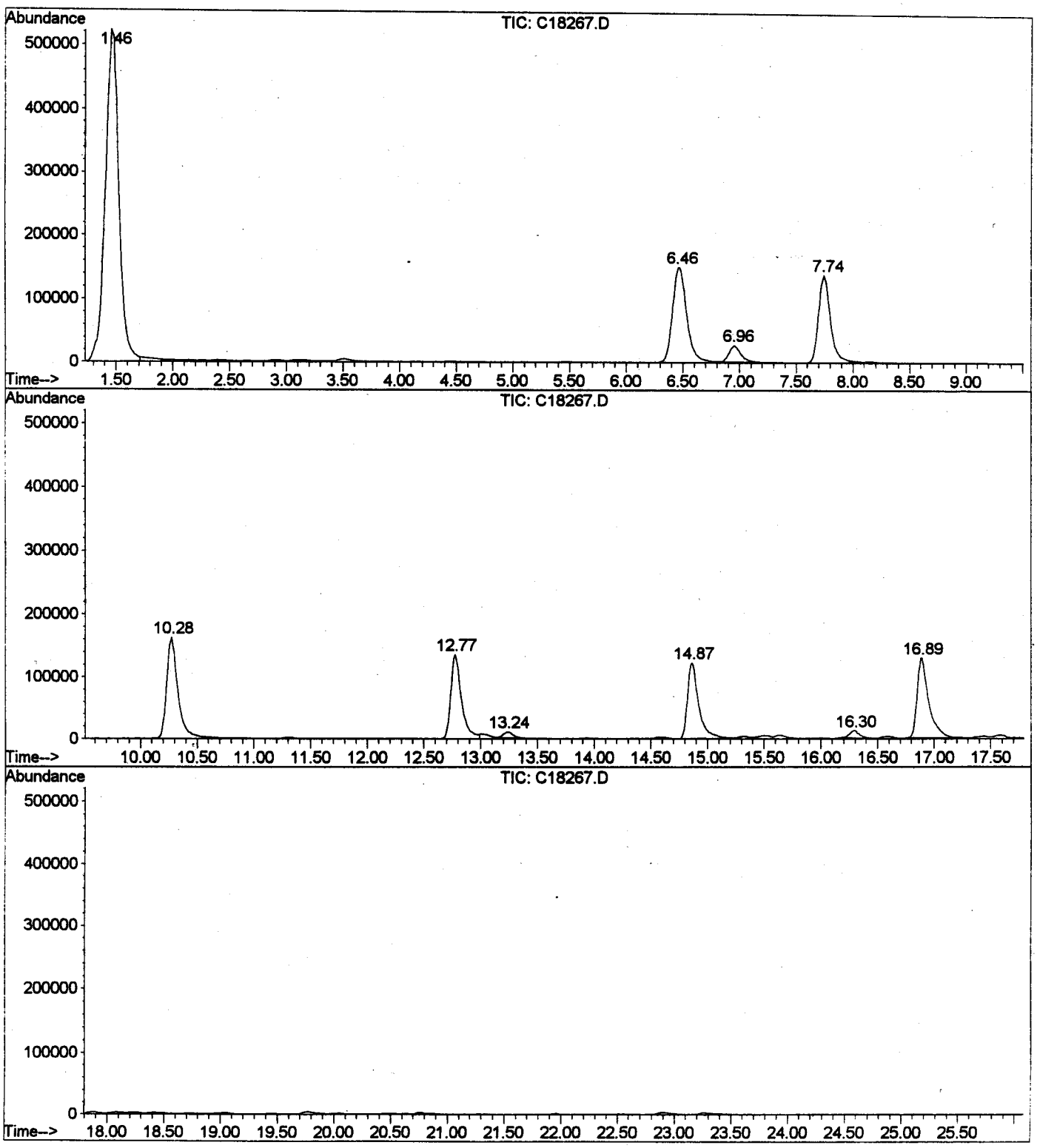
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	1.463	3	25	50	rBV	522464	4304670	100.00%	40.255%
2	6.463	513	532	566	rBV2	150867	1304259	30.30%	12.197%
3	6.956	569	582	602	rVB2	26824	188347	4.38%	1.761%
4	7.745	646	662	688	rBV	139612	1017858	23.65%	9.518%
5	10.279	903	919	955	rBV2	162913	1124072	26.11%	10.512%
6	12.774	1159	1172	1194	rBV3	135568	890855	20.70%	8.331%
7	13.238	1208	1219	1230	rVB2	9556	55297	1.28%	0.517%
8	14.865	1372	1384	1414	rBV3	122889	828262	19.24%	7.745%
9	16.295	1518	1529	1540	rVB2	11340	64553	1.50%	0.604%
10	16.887	1577	1589	1620	rBV	129827	915378	21.26%	8.560%

Sum of corrected areas: 10693551

C18267.D 12290025.M Thu Jan 04 10:20:02 2001 RPT1

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\122900\C18267.D
Operator : TAG/VR
Acquired : 30 Dec 2000 00:52 using AcqMethod 12290025
Instrument : VOA-C
Sample Name: AC05536 25ml DF=1
Misc Info : 26563/C12140025
Vial Number: 3
Quant File :12290025.RES (RTE Integrator)



C18267.D 12290025.M Thu Jan 04 10:20:03 2001 RPT1

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\122900\C18267.D
Acq On : 30 Dec 2000 00:52
Sample : AC05536 25ml DF=1
Misc : 26563/C12140025
MS Integration Params: LSCINT.P

Vial: 3
Operator: TAG/VR
Inst : VOA-C
Multiplr: 1.00

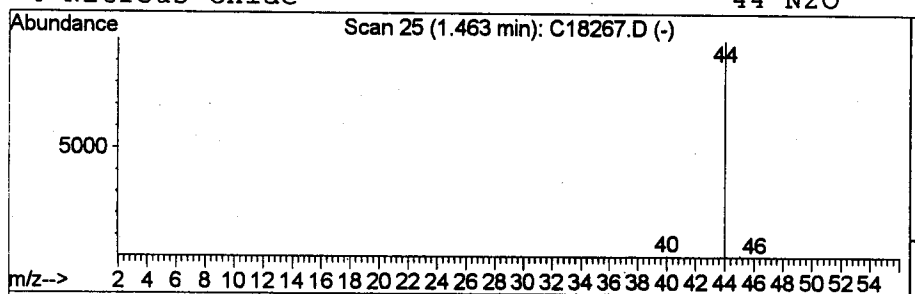
Quant Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

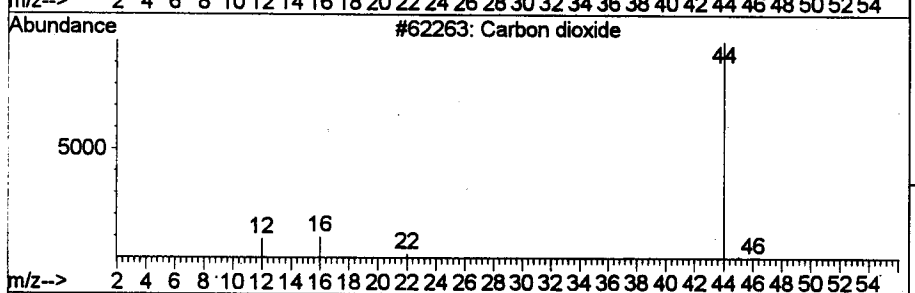
****

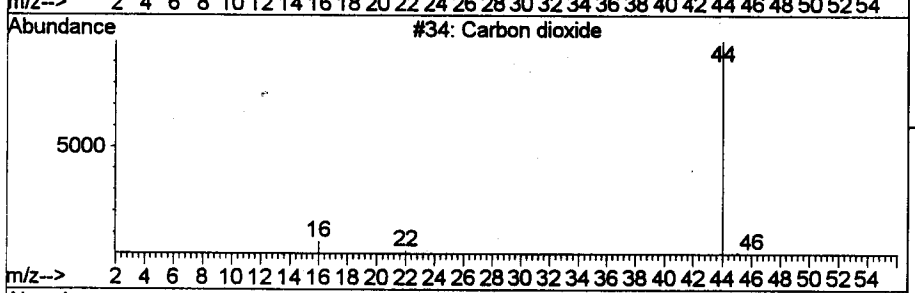
Peak Number 1 Carbon dioxide Concentration Rank 1

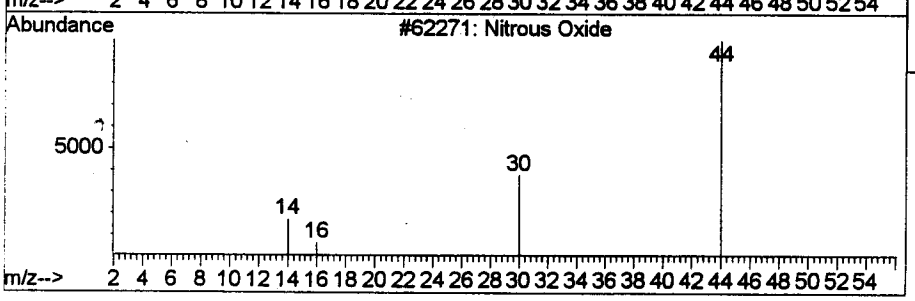
R.T.	EstConc	Area	Relative to ISTD	R.T.
1.46	33.00 ug\L	4304670	Pentafluorobenzene	6.47

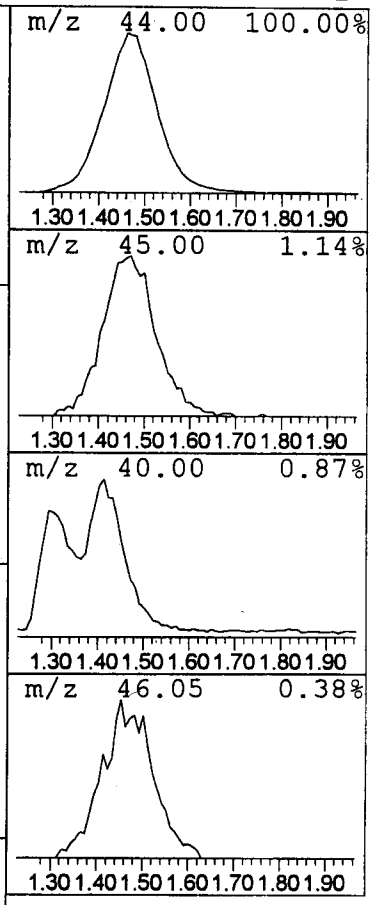
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbon dioxide	44	CO2	000124-38-9	4
2	Carbon dioxide	44	CO2	000124-38-9	4
3	Nitrous Oxide	44	N2O	010024-97-2	3
4	Nitrous Oxide	44	N2O	010024-97-2	3











Data File : C:\HPCHEM\1\DATA\122900\C18267.D
Acq On : 30 Dec 2000 00:52
Sample : AC05536 25ml DF=1
Misc : 26563/C12140025
MS Integration Params: LSCINT.P

Vial: 3
Operator: TAG/VR
Inst : VOA-C
Multiplr: 1.00

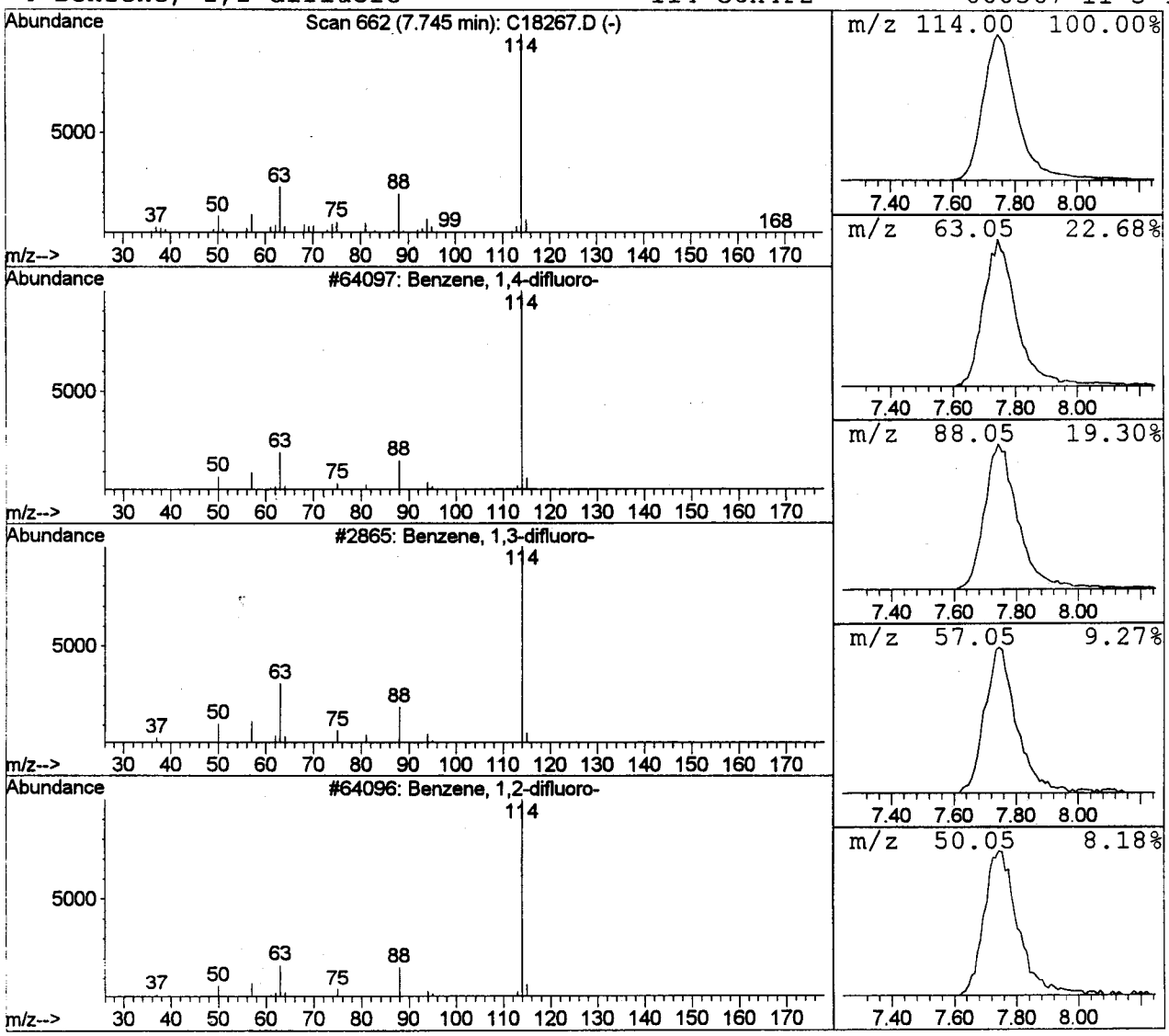
Quant Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

****

Peak Number 2 Benzene, 1,4-difluoro- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.74	7.80 ug\L	1017860	Pentafluorobenzene	6.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,4-difluoro-	114	C6H4F2	000540-36-3	97
2	Benzene, 1,3-difluoro-	114	C6H4F2	000372-18-9	96
3	Benzene, 1,2-difluoro-	114	C6H4F2	000367-11-3	95
4	Benzene, 1,2-difluoro-	114	C6H4F2	000367-11-3	95



Tentatively Identified Compound (LSC) summary

Operator ID: TAG/VR Date Acquired: 30 Dec 2000 00:52
Data File: C:\HPCHEM\1\DATA\122900\C18267.D
Name: AC05536 25ml DF=1
Misc: 26563/C12140025
Method: c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title: 8260 CALIBRATION FOR 25ML WATER
Library Searched: C:\DATABASE\NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Carbon dioxide	1.46	33.0	ug\L	4304670	ISTD01	6.47	1304260	10.0
Benzene, 1,4-difluor	7.74	7.8	ug\L	1017860	ISTD01	6.47	1304260	10.0

C18267.D 12290025.M Thu Jan 04 10:20:07 2001 RPT1

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\122900\C18255.D
Acq On : 29 Dec 2000 18:20
Sample : AC05536 25ml DF=1
Misc : 26563/C12140025
MS Integration Params: rteint.p
Quant Time: Dec 29 18:46 2000

Vial: 6
Operator: TAG/VR
Inst : VOA-C
Multiplr: 1.00

Quant Results File: 12290025.RES

Quant Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 10:24:33 2000
Response via : Initial Calibration
DataAcq Meth : 12290025

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	6.47	168	456909	10.00 ug\L	0.00
45) Chlorobenzene-d5	12.78	117	321887	10.00 ug\L	0.00
61) 1,4-Dichlorobenzene-d4	16.91	152	162899	10.00 ug\L	0.02
System Monitoring Compounds					
32) 1,2-Dichloroethane-d4	6.96	65	84866	9.36 ug\L	0.02
Spiked Amount 10.000	Range 80 - 120		Recovery = 93.60%		
46) Toluene-d8	10.28	98	436441	9.16 ug\L	0.00
Spiked Amount 10.000	Range 87 - 104		Recovery = 91.60%		
65) Bromofluorobenzene	14.87	95	218287	9.67 ug\L	0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 96.70%		

Target Compounds					Qvalue
8) Acrolein	4.12	56	328	~~1.27 ug\L #~~	1
16) Methylene Chloride	3.50	86	2685	~~-0.81 ug\L #~~	1
34) Isobutyl alcohol	7.15	43	67	~~-26.50 ug\L #~~	17
36) Trichloroethene	7.74	95	12766	~~0.59 ug\L #~~	9
64) 1,4-dichloro-2-Butene	14.87	75	109925	~~21.78 ug\L #~~	100
68) 1,2,3-Trichloropropane	14.87	75	109925	~~21.77 ug\L #~~	100
83) 1,2,4-trichlorobenzene	20.49	180	9470	0.65 ug\L	100
84) Hexachlorobutadiene	20.76	225	11645	0.56 ug\L	100
85) Naphthalene	20.88	128	16624	2.37 ug\L	100
86) 1,2,3-Trichlorobenzene	21.34	180	10353	1.01 ug\L #	95

VR
01/02/01

File copy

(#) = qualifier out of range (m) = manual integration

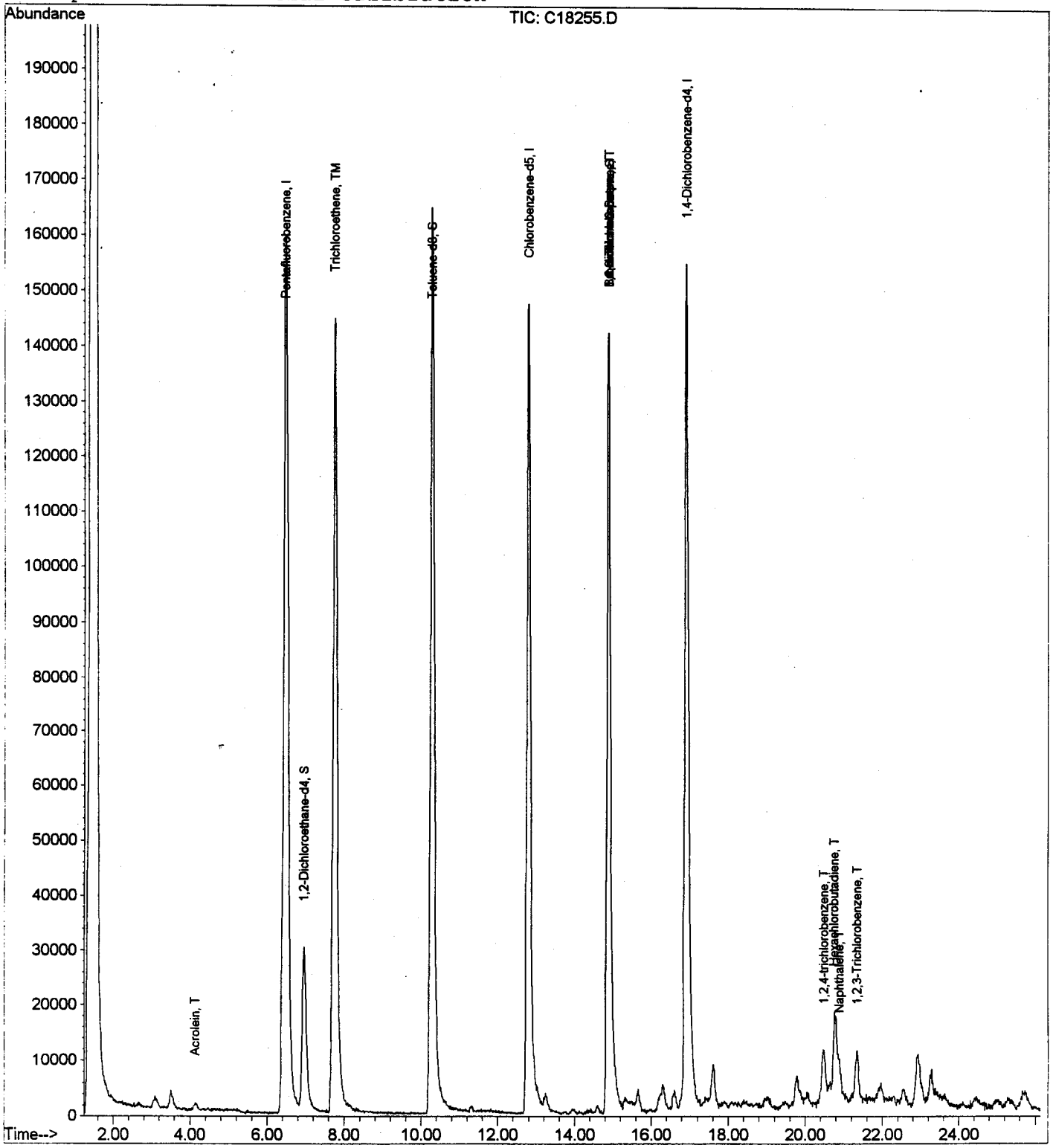
Quantitation Report

Data File : C:\HPCHEM\1\DATA\122900\C18255.D
Acq On : 29 Dec 2000 18:20
Sample : AC05536 25ml DF=1
Misc : 26563/C12140025
MS Integration Params: rteint.p
Quant Time: Dec 29 18:46 2000

Vial: 6
Operator: TAG/VR
Inst : VOA-C
Multiplr: 1.00

Quant Results File: 12290025.RES

Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 08:48:11 2000
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\010301\01030107.D
Acq On : 3 Jan 2001 17:50
Sample : AC05537
Misc : 26563 1000mL
IntFile : events.e
Quant Time: Jan 4 10:11 2001 Quant Results File: PRO1208.RES

Vial: 7
Operator: MT
Inst : DRO-B
Multiplr: 1.00

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.08	2053631	44.477 ug/mlm
Spiked Amount 50.000		Recovery =	88.95% ✓MT
3) SC C(39)	34.33	1309286	29.803 ug/mlm
Spiked Amount 300.000		Recovery =	9.93% ✓MT
Target Compounds			
1) HM Florida PRO	3.70	24866700	437.213 ug/ml/1000 =

0.44JB ppm
MT

(f)=RT Delta > 1/2 Window (m)=manual int.

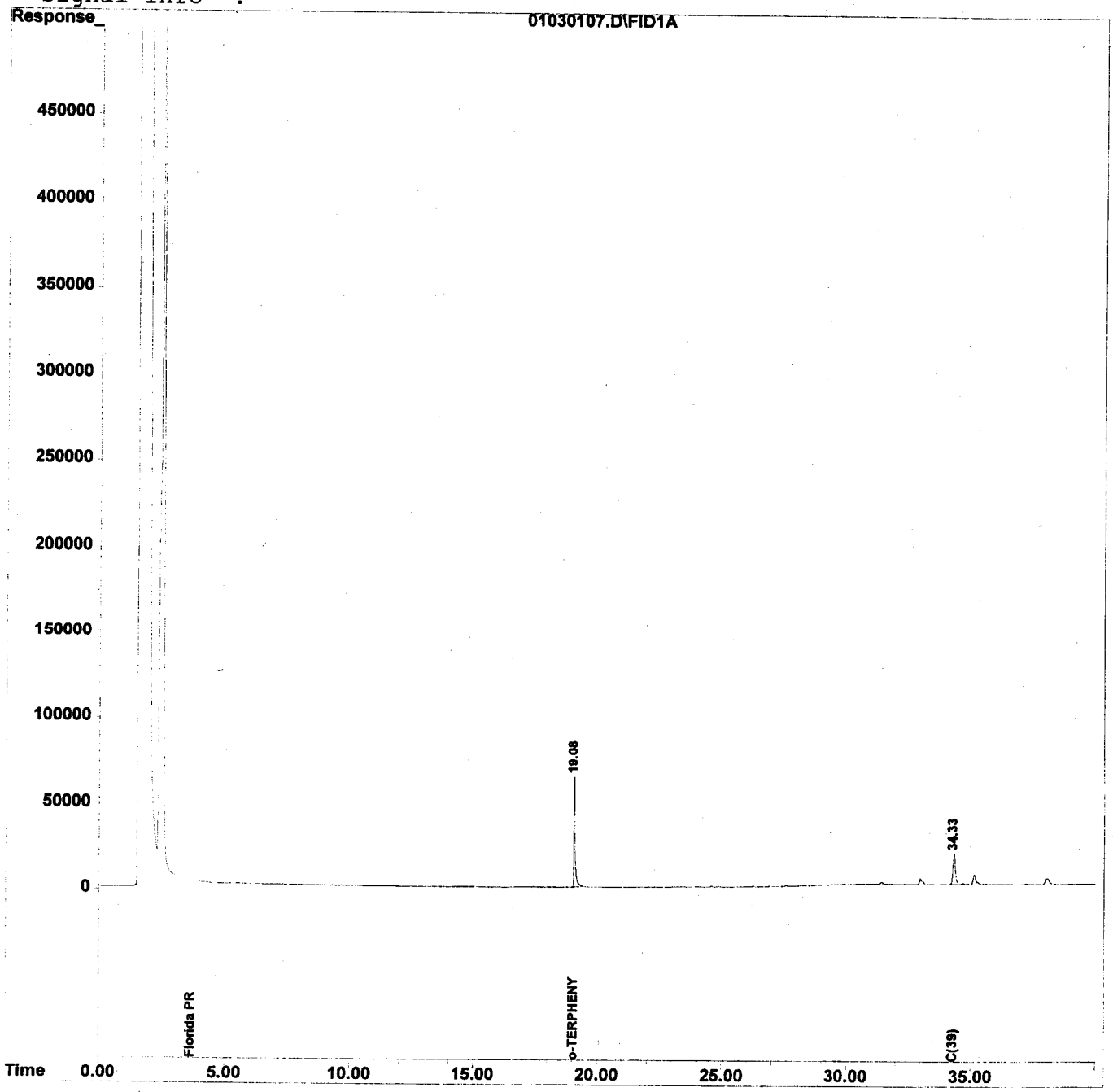
Quantitation Report

Data File : C:\HPCHEM\2\DATA\010301\01030107.D
Acq On : 3 Jan 2001 17:50
Sample : AC05537
Misc : 26563 1000mL
IntFile : events.e
Quant Time: Jan 4 10:11 2001 Quant Results File: PRO1208.RES

Vial: 7
Operator: MT
Inst : DRO-B
Multiplr: 1.00

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\122900\C18256.D
Acq On : 29 Dec 2000 18:51
Sample : AC05537 25ml DF=1
Misc : 26563/C12140025
MS Integration Params: rteint.p
Quant Time: Dec 29 19:17 2000

Vial: 7
Operator: TAG/VR
Inst : VOA-C
Multiplr: 1.00

Quant Results File: 12290025.RES

Quant Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 10:24:33 2000
Response via : Initial Calibration
DataAcq Meth : 12290025

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	6.46	168	464330	10.00 ug\L	-0.01
45) Chlorobenzene-d5	12.78	117	336287	10.00 ug\L	0.00
61) 1,4-Dichlorobenzene-d4	16.90	152	171378	10.00 ug\L	0.00
System Monitoring Compounds					
32) 1,2-Dichloroethane-d4	6.94	65	90511	9.82 ug\L	-0.01
Spiked Amount 10.000	Range 80 - 120		Recovery = 98.20%		
46) Toluene-d8	10.27	98	457175	9.18 ug\L	-0.01
Spiked Amount 10.000	Range 87 - 104		Recovery = 91.80%		
65) Bromofluorobenzene	14.86	95	231809	9.76 ug\L	-0.01
Spiked Amount 10.000	Range 84 - 110		Recovery = 97.60%		

Target Compounds					Qvalue
11) Acetone	3.01	58	65	~~2.24 ug\L #~~	1
64) 1,4-dichloro-2-Butene	14.85	75	113196	~~21.32 ug\L #~~	100
68) 1,2,3-Trichloropropane	14.85	75	113196	~~21.31 ug\L #~~	100
85) Naphthalene	20.88	128	5757	1.42 ug\L	100

VR
01/02/01

(#) = qualifier out of range (m) = manual integration

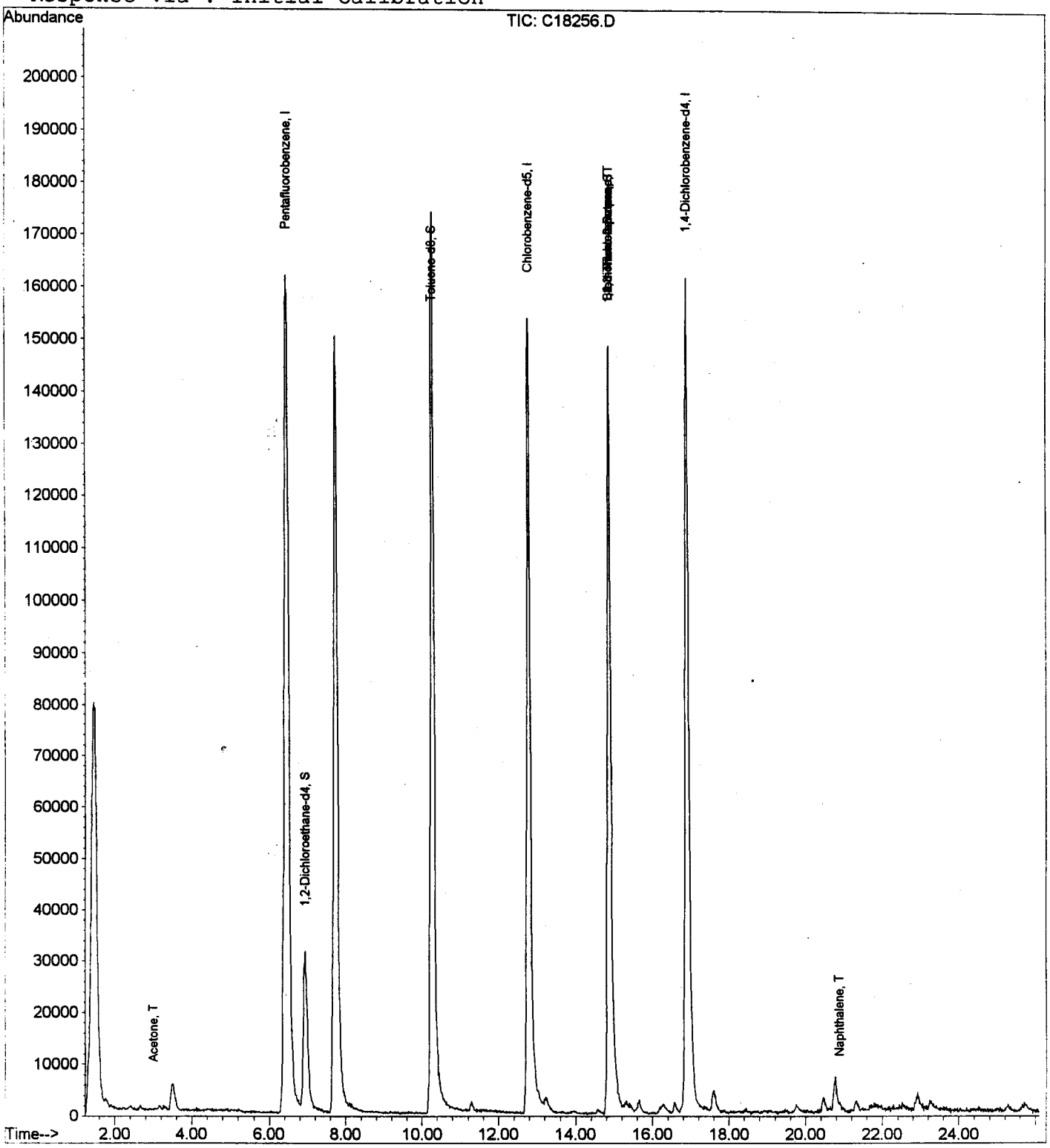
Quantitation Report

Data File : C:\HPCHEM\1\DATA\122900\C18256.D
Acq On : 29 Dec 2000 18:51
Sample : AC05537 25ml DF=1
Misc : 26563/C12140025
MS Integration Params: rteint.p
Quant Time: Dec 29 19:17 2000

Vial: 7
Operator: TAG/VR
Inst : VOA-C
Multiplr: 1.00

Quant Results File: 12290025.RES

Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 08:48:11 2000
Response via : Initial Calibration



1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

029-SMW03-Q4

Lab Name: Accura Analytical Lab. Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: AC05537

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: C18256.D

Level: (low/med) LOW Date Received: 12/21/00

% Moisture: not dec. _____ Date Analyzed: 12/29/00

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\122900\C18256.D
Acq On : 29 Dec 2000 18:51
Sample : AC05537 25ml DF=1
Misc : 26563/C12140025
MS Integration Params: LSCINT.P

Vial: 7
Operator: TAG/VR
Inst : VOA-C
Multiplr: 1.00

Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Smoothing : OFF
Sampling : 1
Start Thrs: 0.2
Stop Thrs : 0

Filtering: 5
Min Area: 1 % of largest Peak
Max Peaks: 100
Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

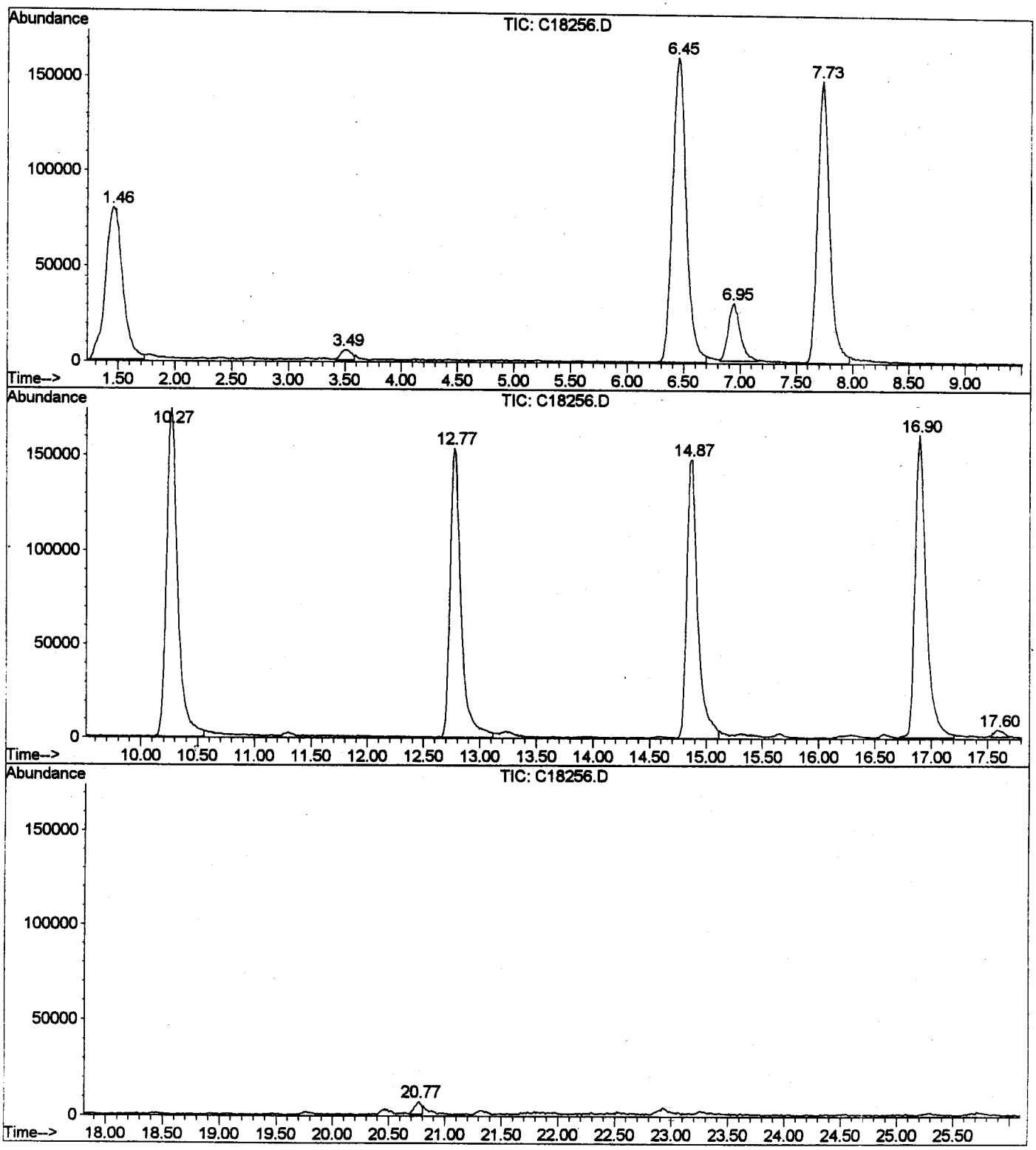
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	1.462	3	25	52	rBV	79752	837522	60.82%	10.551%
2	3.494	223	231	240	rBV5	5133	33096	2.40%	0.417%
3	6.452	512	531	556	rBV2	161614	1377115	100.00%	17.348%
4	6.945	568	581	603	rVB2	30401	227775	16.54%	2.869%
5	7.734	645	661	685	rBV2	149956	1098393	79.76%	13.837%
6	10.269	903	918	947	rBV	173829	1191601	86.53%	15.011%
7	12.774	1159	1172	1207	rBV	153493	1030616	74.84%	12.983%
8	14.874	1371	1385	1409	rBV2	148326	1005619	73.02%	12.668%
9	16.896	1570	1590	1621	rBV	161210	1089233	79.10%	13.722%
10	17.596	1654	1661	1672	rVB5	3597	20466	1.49%	0.258%
11	20.772	1974	1983	1986	rBV7	6442	26533	1.93%	0.334%

Sum of corrected areas: 7937969

C18256.D 12290025.M Thu Jan 04 10:21:06 2001 RPT1

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\122900\C18256.D
Operator : TAG/VR
Acquired : 29 Dec 2000 18:51 using AcqMethod 12290025
Instrument : VOA-C
Sample Name: AC05537 25ml DF=1
Misc Info : 26563/C12140025
Vial Number: 7
Quant File :12290025.RES (RTE Integrator)



C18256.D 12290025.M Thu Jan 04 10:21:07 2001 RPT1

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\122900\C18256.D
Acq On : 29 Dec 2000 18:51
Sample : AC05537 25ml DF=1
Misc : 26563/C12140025
MS Integration Params: LSCINT.P

Vial: 7
Operator: TAG/VR
Inst : VOA-C
Multiplr: 1.00

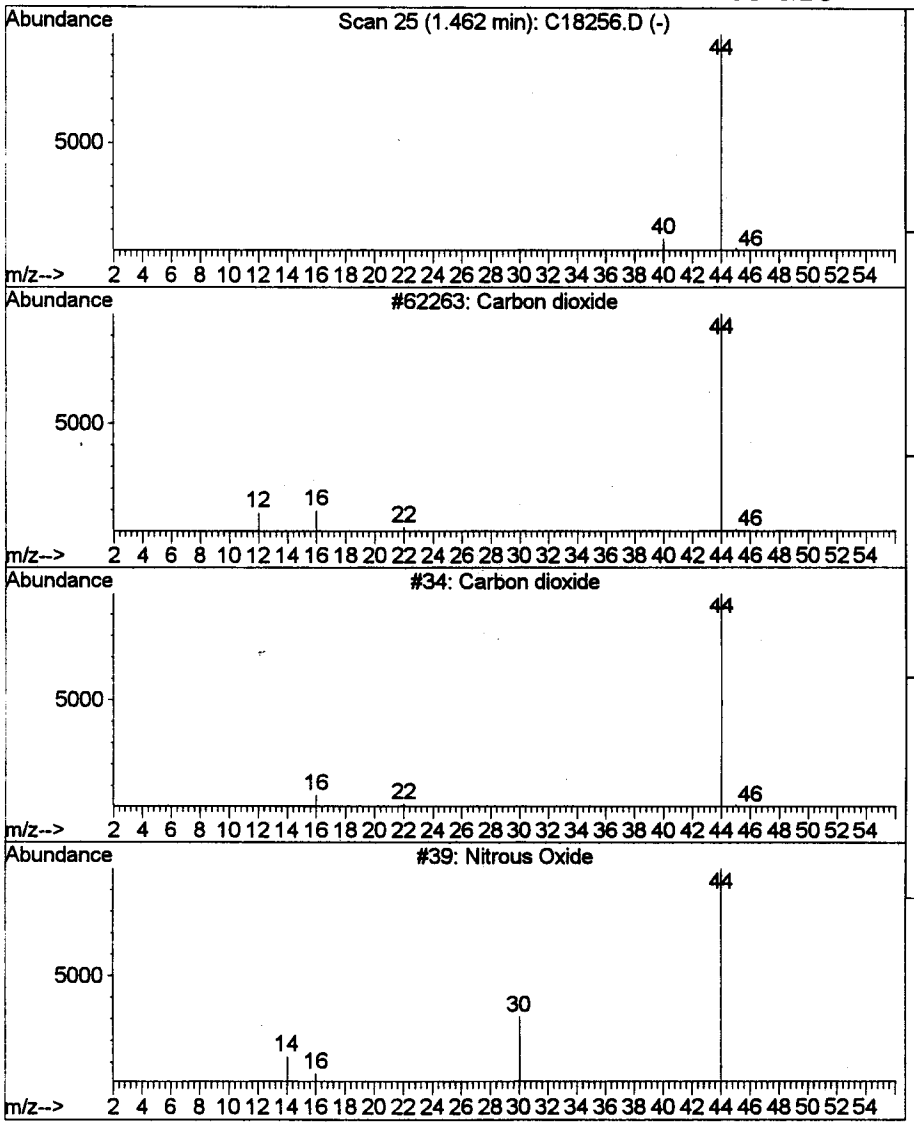
Quant Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

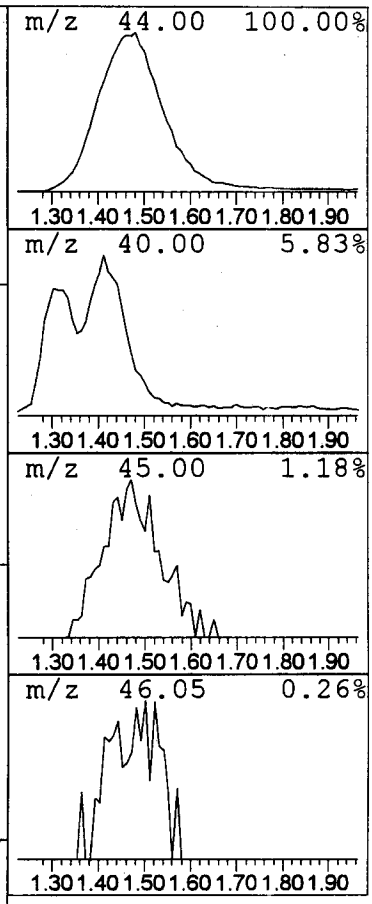
****

Peak Number 1 Carbon dioxide Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.46	6.08 ug\L	837522	Pentafluorobenzene	6.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbon dioxide	44	CO2	000124-38-9	3
2	Carbon dioxide	44	CO2	000124-38-9	3
3	Nitrous Oxide	44	N2O	010024-97-2	3
4	Nitrous Oxide	44	N2O	010024-97-2	3





Data File : C:\HPCHEM\1\DATA\122900\C18256.D
Acq On : 29 Dec 2000 18:51
Sample : AC05537 25ml DF=1
Misc : 26563/C12140025
MS Integration Params: LSCINT.P

Vial: 7
Operator: TAG/VR
Inst : VOA-C
Multiplr: 1.00

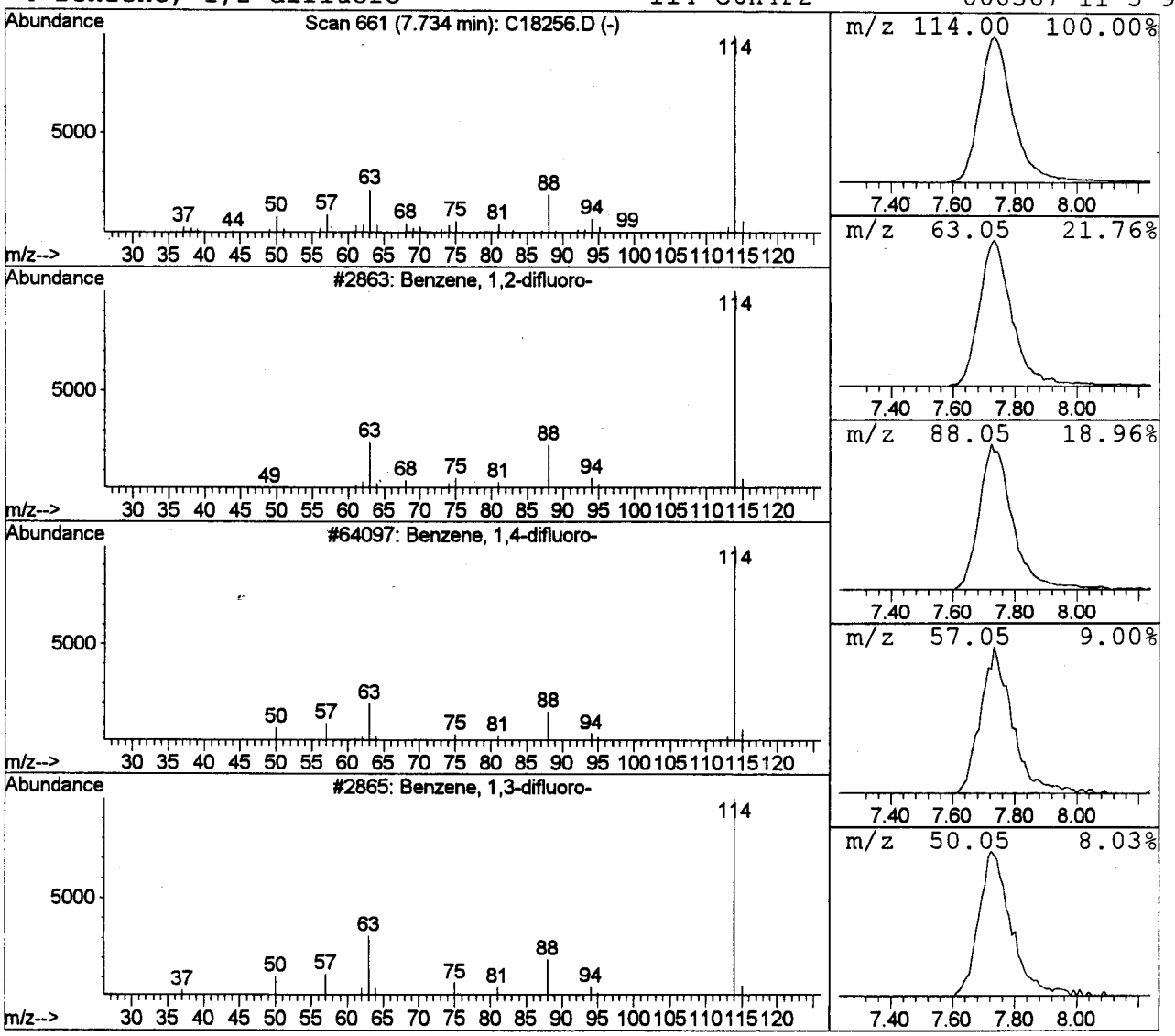
Quant Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

****

Peak Number 2 Benzene, 1,2-difluoro- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.73	7.98 ug\L	1098390	Pentafluorobenzene	6.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2-difluoro-	114	C6H4F2	000367-11-3	97
2	Benzene, 1,4-difluoro-	114	C6H4F2	000540-36-3	97
3	Benzene, 1,3-difluoro-	114	C6H4F2	000372-18-9	96
4	Benzene, 1,2-difluoro-	114	C6H4F2	000367-11-3	94



Tentatively Identified Compound (LSC) summary

Operator ID: TAG/VR Date Acquired: 29 Dec 2000 18:51
Data File: C:\HPCHEM\1\DATA\122900\C18256.D
Name: AC05537 25ml DF=1
Misc: 26563/C12140025
Method: c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title: 8260 CALIBRATION FOR 25ML WATER
Library Searched: C:\DATABASE\NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Carbon dioxide	1.46	6.1	ug\L	837522	ISTD01	6.46	1377120	10.0
Benzene, 1,2-difluor	7.73	8.0	ug\L	1098390	ISTD01	6.46	1377120	10.0

C18256.D 12290025.M Thu Jan 04 10:21:11 2001 RPT1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\010201\01020111.D
Acq On : 2 Jan 2001 19:28
Sample : AC05538
Misc : 26563 1000mL
IntFile : events.e
Quant Time: Jan 3 10:30 2001 Quant Results File: PRO1208.RES

Vial: 11
Operator: MT
Inst : DRO-B
Multiplr: 1.00

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.11	811988	17.586 ug/mlm
Spiked Amount 50.000		Recovery =	35.17% x MT
3) SC C(39)	34.39	2167436	49.338 ug/mlm
Spiked Amount 300.000		Recovery =	16.45% x MT
Target Compounds			
1) HM Florida PRO	3.70	37920579	666.730 ug/ml /1000 =

0.67JB ppm
MT

(f)=RT Delta > 1/2 Window (m)=manual int.

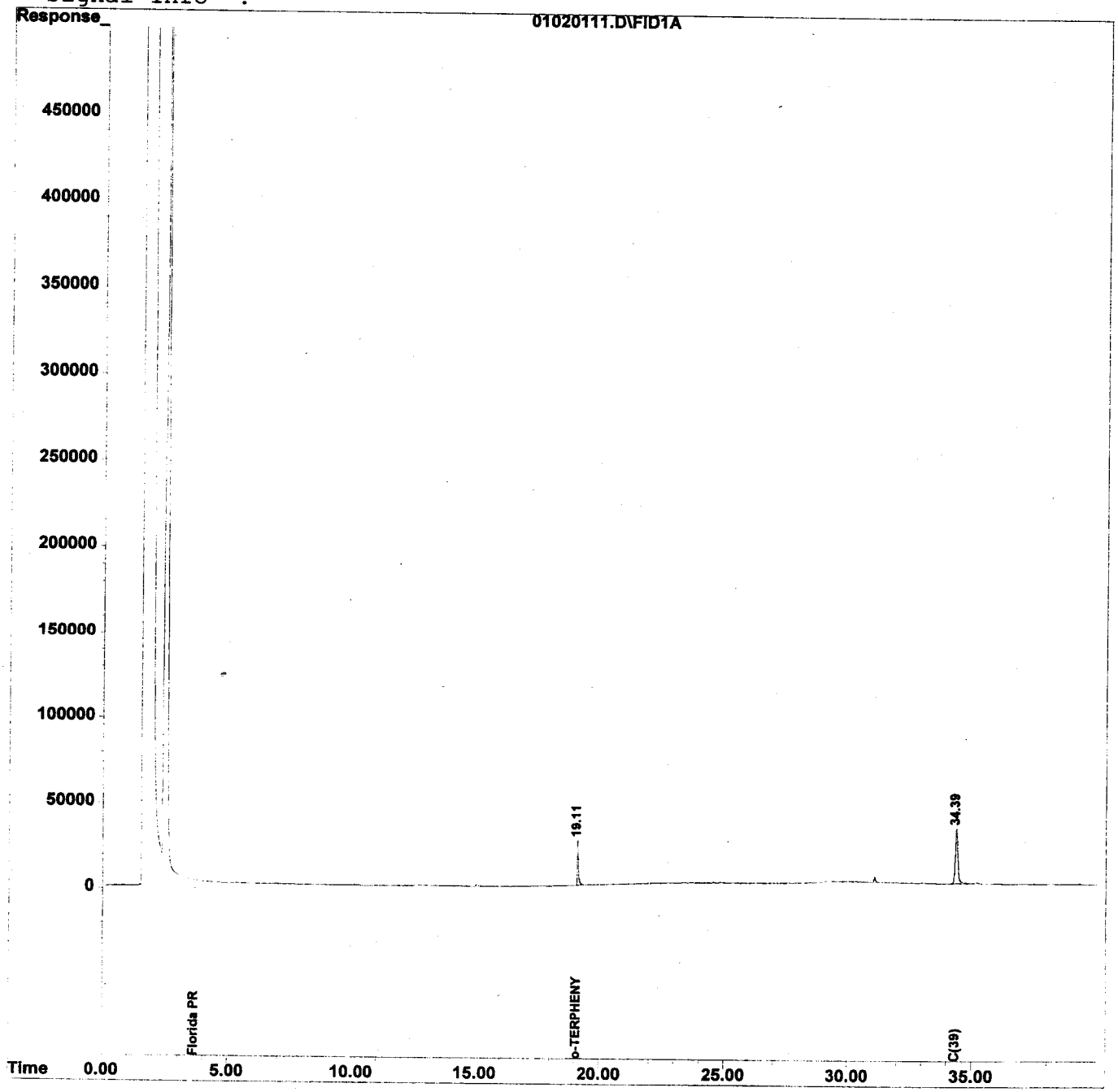
Quantitation Report

Data File : C:\HPCHEM\2\DATA\010201\01020111.D
Acq On : 2 Jan 2001 19:28
Sample : AC05538
Misc : 26563 1000mL
IntFile : events.e
Quant Time: Jan 3 10:30 2001 Quant Results File: PRO1208.RES

Vial: 11
Operator: MT
Inst : DRO-B
Multiplr: 1.00

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\122900\C18257.D
Acq On : 29 Dec 2000 19:22
Sample : AC05538 25ml DF=1
Misc : 26563/C12140025
MS Integration Params: rteint.p
Quant Time: Dec 29 19:48 2000

Vial: 8
Operator: TAG/VR
Inst : VOA-C
Multiplr: 1.00

Quant Results File: 12290025.RES

Quant Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 10:24:33 2000
Response via : Initial Calibration
DataAcq Meth : 12290025

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	6.48	168	480347	10.00 ug\L	0.00
45) Chlorobenzene-d5	12.79	117	337639	10.00 ug\L	0.02
61) 1,4-Dichlorobenzene-d4	16.91	152	173242	10.00 ug\L	0.02
System Monitoring Compounds					
32) 1,2-Dichloroethane-d4	6.98	65	90235	9.47 ug\L	0.03
Spiked Amount 10.000	Range 80 - 120		Recovery = 94.70%		
46) Toluene-d8	10.28	98	470366	9.41 ug\L	0.00
Spiked Amount 10.000	Range 87 - 104		Recovery = 94.10%		
65) Bromofluorobenzene	14.87	95	230280	9.59 ug\L	0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 95.90%		

Target Compounds					Qvalue
8) Acrolein	3.38	56	146	~~0.54 ug\L #~~	1
15) Acetonitrile	3.31	41	943	~~0.50 ug\L #~~	38
16) Methylene Chloride	3.53	86	2021	~~0.92 ug\L #~~	1
34) Isobutyl alcohol	7.12	43	78	~~26.38 ug\L #~~	1
36) Trichloroethene	7.74	95	14008	~~0.62 ug\L #~~	9
64) 1,4-dichloro-2-Butene	14.87	75	117892	~~21.96 ug\L #~~	100
68) 1,2,3-Trichloropropane	14.87	75	117892	~~21.95 ug\L #~~	100
85) Naphthalene	20.89	128	2047	1.12 ug\L	100

VR
01/02/01

(#) = qualifier out of range (m) = manual integration

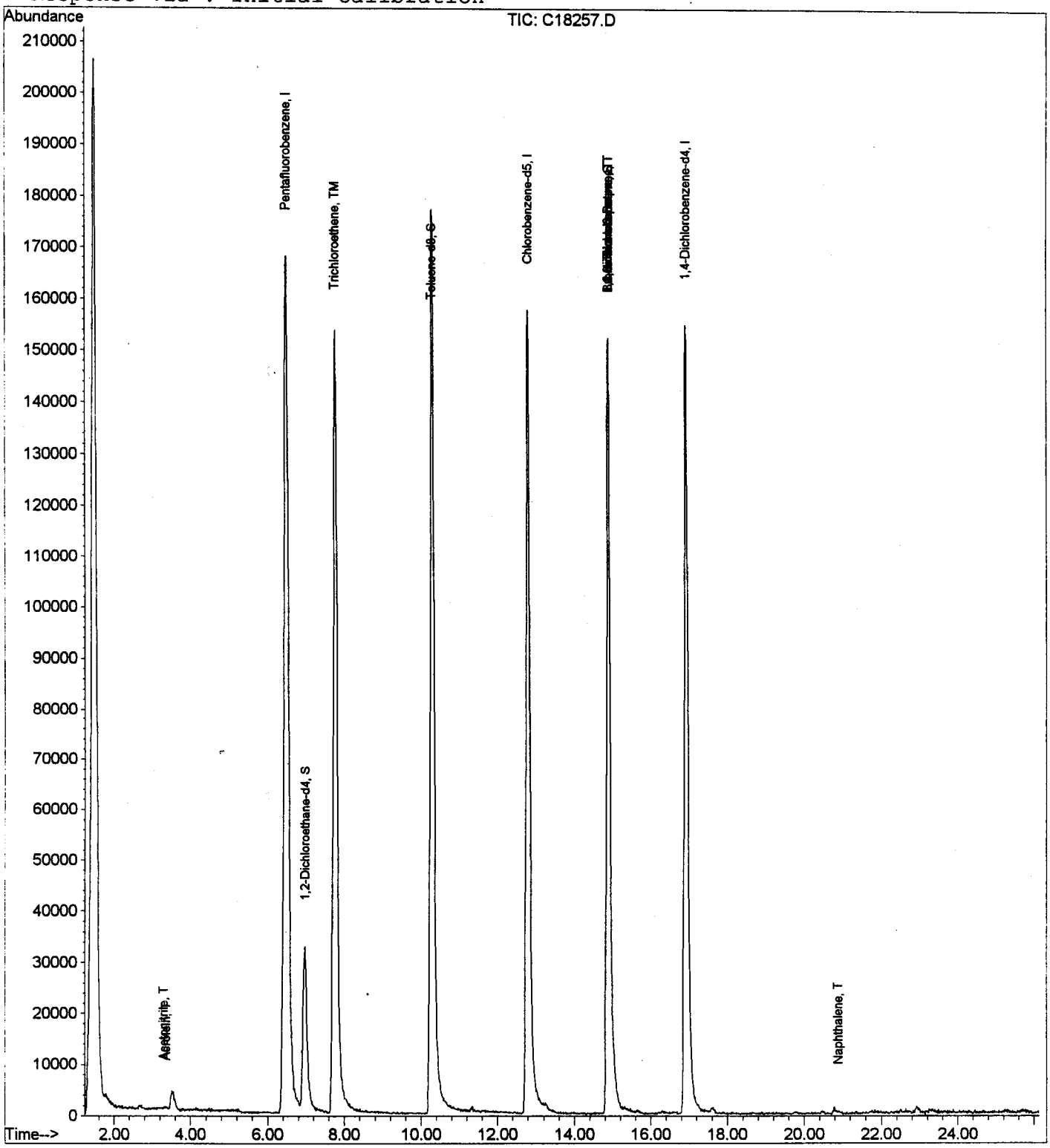
Quantitation Report

Data File : C:\HPCHEM\1\DATA\122900\C18257.D
Acq On : 29 Dec 2000 19:22
Sample : AC05538 25ml DF=1
Misc : 26563/C12140025
MS Integration Params: rteint.p
Quant Time: Dec 29 19:48 2000

Vial: 8
Operator: TAG/VR
Inst : VOA-C
Multiplr: 1.00

Quant Results File: 12290025.RES

Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 08:48:11 2000
Response via : Initial Calibration



1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

029-SMW07-Q4

Lab Name: Accura Analytical Lab. Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: AC05538

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: C18257.D

Level: (low/med) LOW Date Received: 12/21/00

% Moisture: not dec. _____ Date Analyzed: 12/29/00

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\122900\C18257.D
Acq On : 29 Dec 2000 19:22
Sample : AC05538 25ml DF=1
Misc : 26563/C12140025
MS Integration Params: LSCINT.P

Vial: 8
Operator: TAG/VR
Inst : VOA-C
Multiplr: 1.00

Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Smoothing : OFF
Sampling : 1
Start Thrs: 0.2
Stop Thrs : 0

Filtering: 5
Min Area: 1 % of largest Peak
Max Peaks: 100
Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

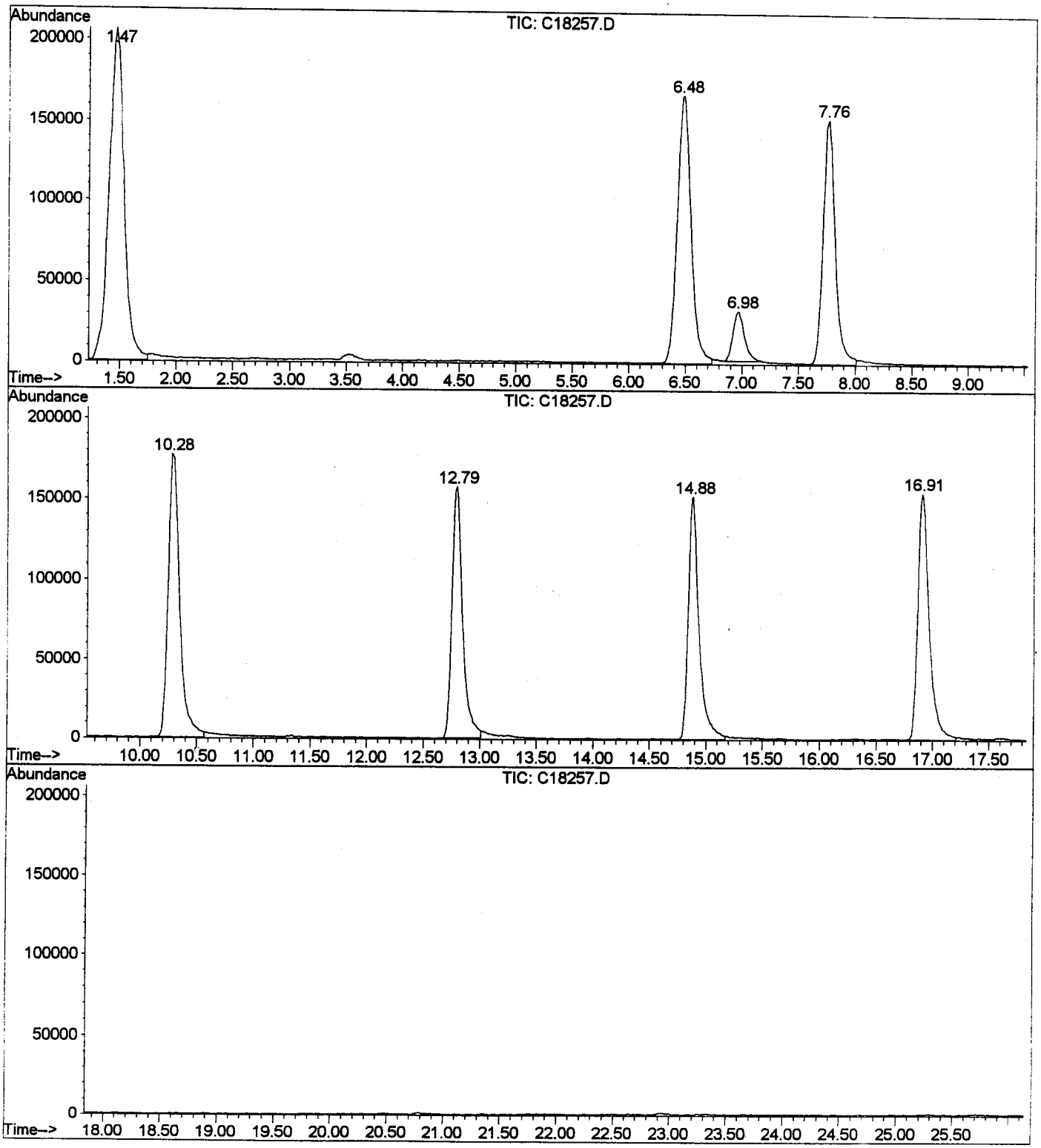
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	1.472	3	26	54	rBV	206074	1887204	100.00%	20.938%
2	6.482	515	534	560	rBV	167626	1427664	75.65%	15.840%
3	6.975	570	584	602	rBV5	31037	221522	11.74%	2.458%
4	7.764	646	664	689	rBV3	153280	1144030	60.62%	12.693%
5	10.279	906	919	948	rBV2	176835	1241327	65.78%	13.772%
6	12.794	1160	1174	1196	rBV3	157130	1025610	54.35%	11.379%
7	14.884	1373	1386	1415	rBV2	151698	1006630	53.34%	11.168%
8	16.906	1579	1591	1622	rBV2	154164	1059315	56.13%	11.753%

Sum of corrected areas: 9013302

C18257.D 12290025.M Thu Jan 04 10:21:55 2001 RPT1

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\122900\C18257.D
Operator : TAG/VR
Acquired : 29 Dec 2000 19:22 using AcqMethod 12290025
Instrument : VOA-C
Sample Name: AC05538 25ml DF=1
Misc Info : 26563/C12140025
Vial Number: 8
Quant File :12290025.RES (RTE Integrator)



C18257.D 12290025.M Thu Jan 04 10:21:56 2001 RPT1

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\122900\C18257.D
Acq On : 29 Dec 2000 19:22
Sample : AC05538 25ml DF=1
Misc : 26563/C12140025
MS Integration Params: LSCINT.P

Vial: 8
Operator: TAG/VR
Inst : VOA-C
Multiplr: 1.00

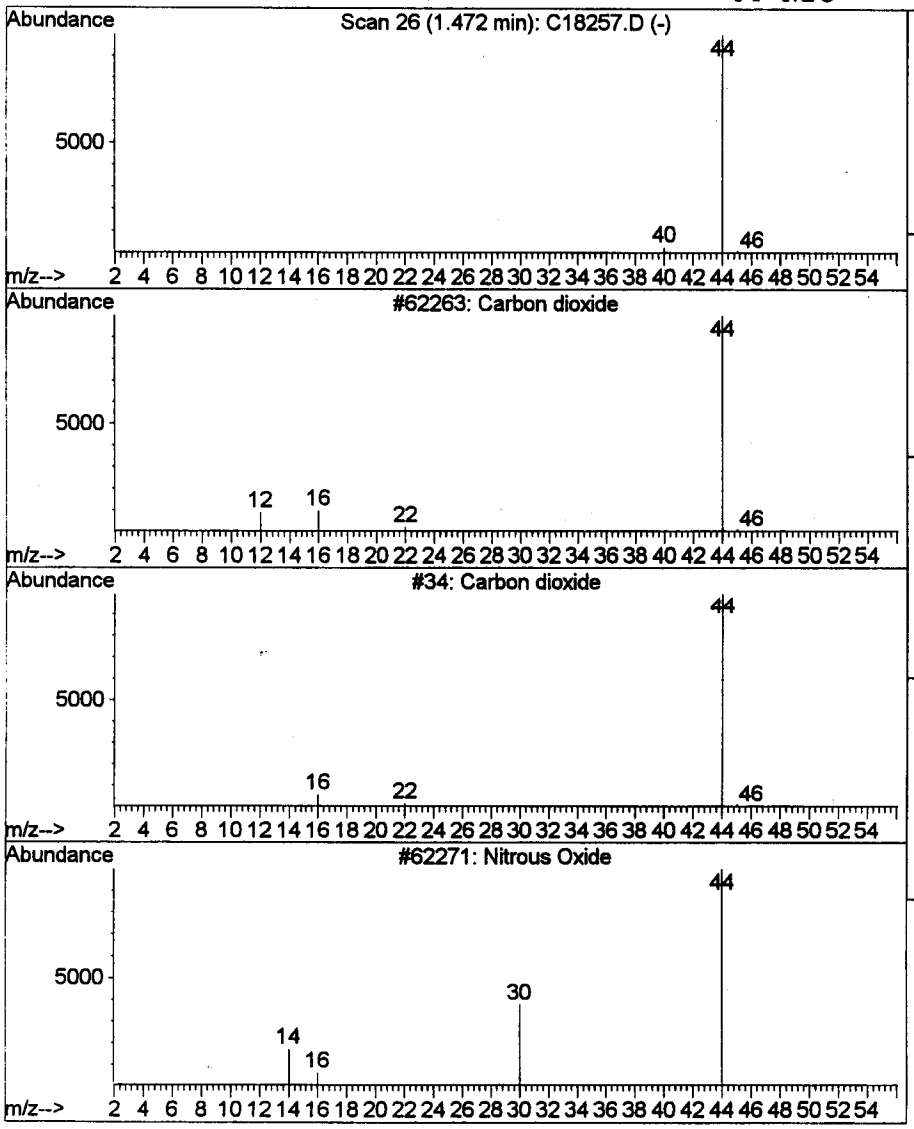
Quant Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

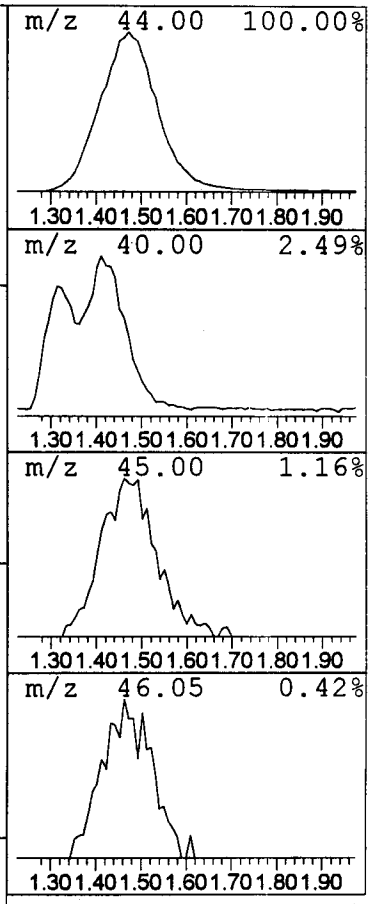
****

Peak Number 1 Carbon dioxide Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.47	13.22 ug\L	1887200	Pentafluorobenzene	6.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbon dioxide	44	CO2	000124-38-9	4
2	Carbon dioxide	44	CO2	000124-38-9	4
3	Nitrous Oxide	44	N2O	010024-97-2	3
4	Nitrous Oxide	44	N2O	010024-97-2	3





Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\122900\C18257.D
Acq On : 29 Dec 2000 19:22
Sample : AC05538 25ml DF=1
Misc : 26563/C12140025
MS Integration Params: LSCINT.P

Vial: 8
Operator: TAG/VR
Inst : VOA-C
Multiplr: 1.00

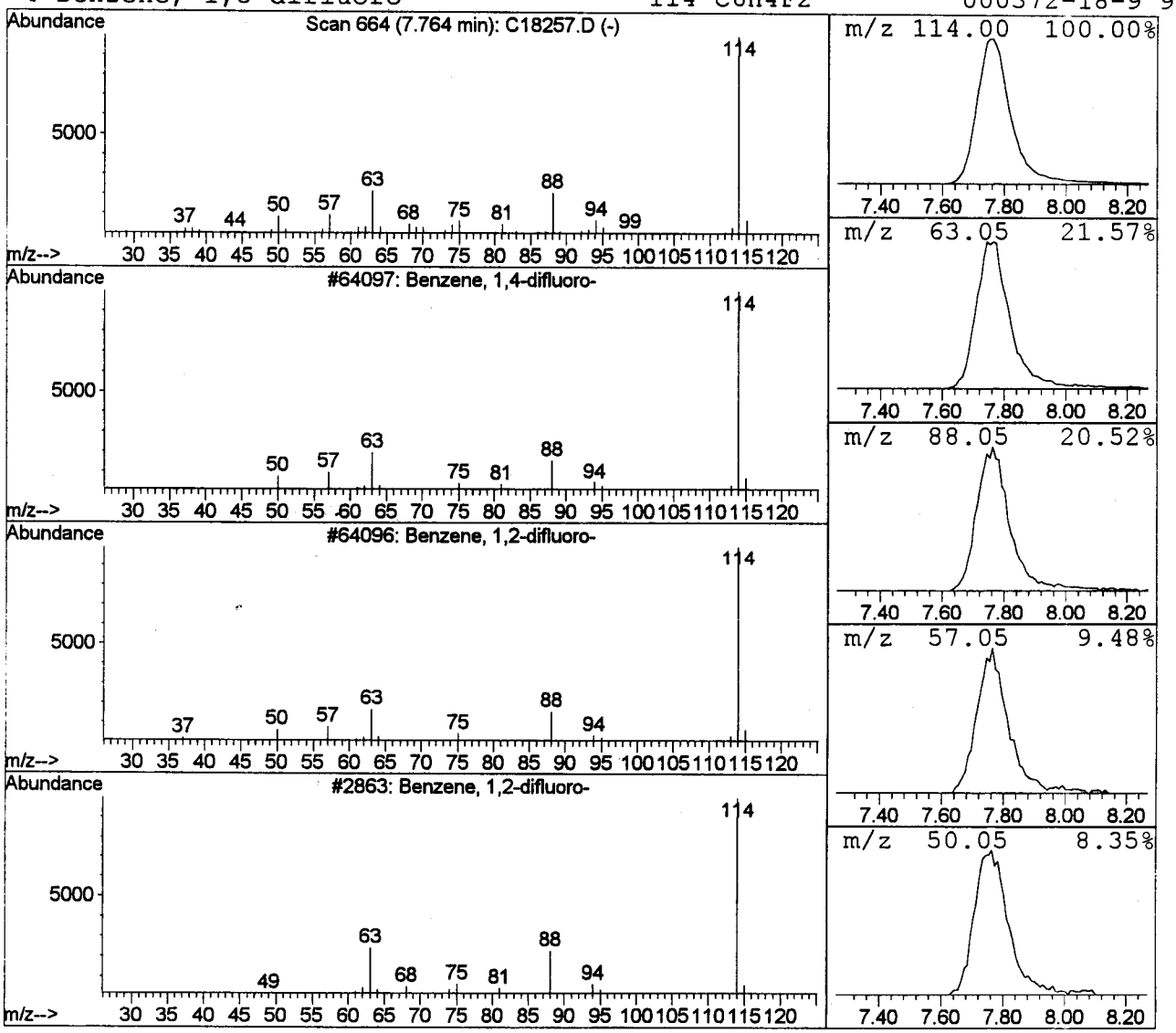
Quant Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

****

Peak Number 2 Benzene, 1,4-difluoro- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.76	8.01 ug\L	1144030	Pentafluorobenzene	6.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,4-difluoro-	114	C6H4F2	000540-36-3	97
2	Benzene, 1,2-difluoro-	114	C6H4F2	000367-11-3	95
3	Benzene, 1,2-difluoro-	114	C6H4F2	000367-11-3	95
4	Benzene, 1,3-difluoro-	114	C6H4F2	000372-18-9	94



Tentatively Identified Compound (LSC) summary

Operator ID: TAG/VR Date Acquired: 29 Dec 2000 19:22
Data File: C:\HPCHEM\1\DATA\122900\C18257.D
Name: AC05538 25ml DF=1
Misc: 26563/C12140025
Method: c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title: 8260 CALIBRATION FOR 25ML WATER
Library Searched: C:\DATABASE\NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Carbon dioxide	1.47	13.2	ug\L	1887200	ISTD01	6.48	1427660	10.0
Benzene, 1,4-difluor	7.76	8.0	ug\L	1144030	ISTD01	6.48	1427660	10.0

C18257.D 12290025.M Thu Jan 04 10:22:00 2001 RPT1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\010201\01020112.D Vial: 12
Acq On : 2 Jan 2001 20:17 Operator: MT
Sample : AC05539 Inst : DRO-B
Misc : 26563 1000mL Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 3 10:30 2001 Quant Results File: PRO1208.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.12	1310550	28.383 ug/mlm
Spiked Amount 50.000		Recovery =	56.77% x NT
3) SC C(39)	34.39	772688	17.589 ug/mlm
Spiked Amount 300.000		Recovery =	5.86% x NT
Target Compounds			
1) HM Florida PRO	3.70	22356862	393.084 ug/ml /1000 =

0.39JB ppm

MT

(f)=RT Delta > 1/2 Window (m)=manual int.

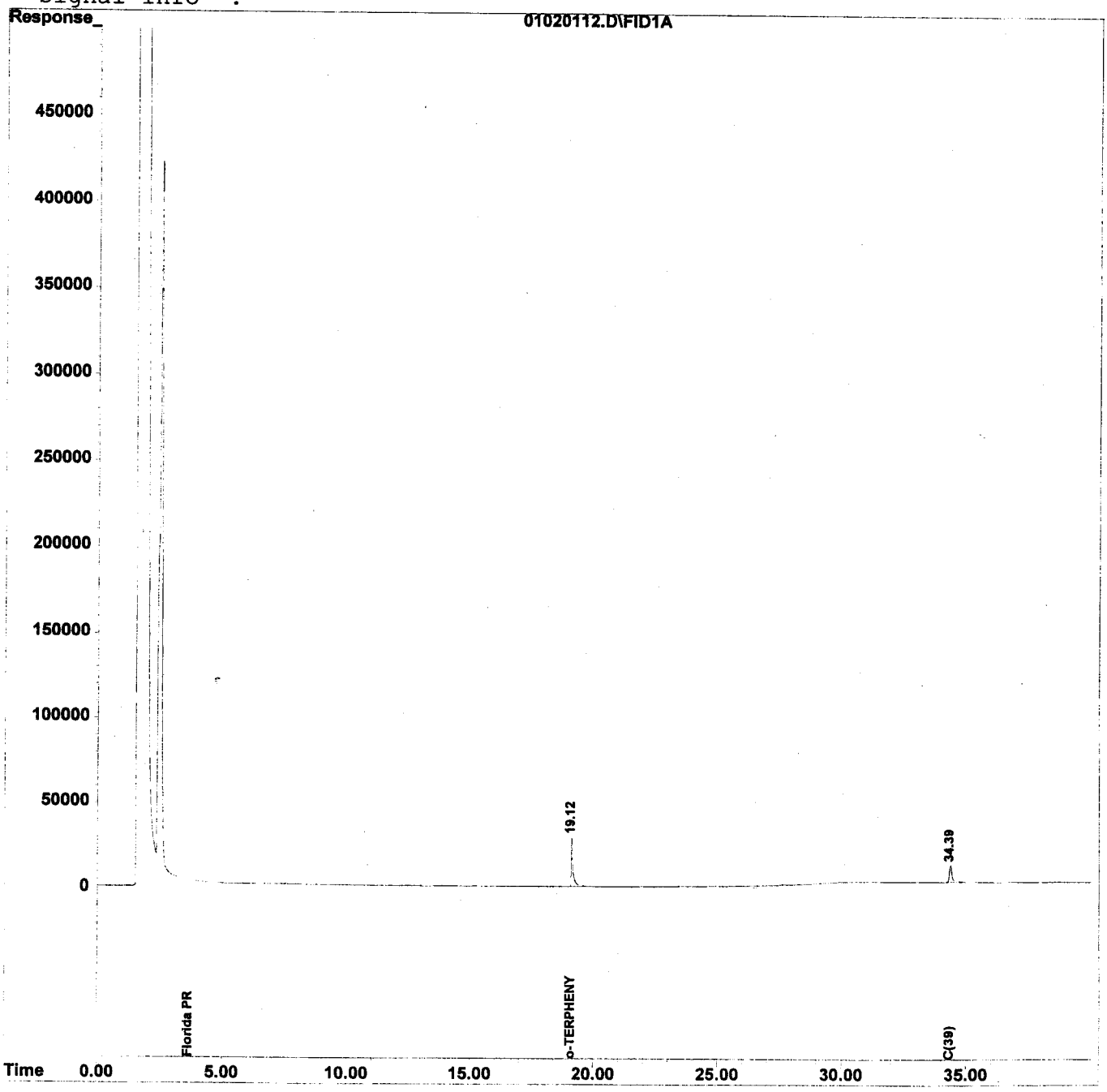
Quantitation Report

Data File : C:\HPCHEM\2\DATA\010201\01020112.D
Acq On : 2 Jan 2001 20:17
Sample : AC05539
Misc : 26563 1000mL
IntFile : events.e
Quant Time: Jan 3 10:30 2001 Quant Results File: PRO1208.RES

Vial: 12
Operator: MT
Inst : DRO-B
Multiplr: 1.00

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\122900\C18258.D Vial: 9
Acq On : 29 Dec 2000 19:52 Operator: TAG/VR
Sample : AC05539 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 29 20:18 2000 Quant Results File: 12290025.RES

Quant Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 10:24:33 2000
Response via : Initial Calibration
DataAcq Meth : 12290025

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	6.48	168	458590	10.00 ug\L	0.00
45) Chlorobenzene-d5	12.79	117	318529	10.00 ug\L	0.02
61) 1,4-Dichlorobenzene-d4	16.91	152	156485	10.00 ug\L	0.02
System Monitoring Compounds					
32) 1,2-Dichloroethane-d4	6.96	65	79426	8.73 ug\L	0.02
Spiked Amount 10.000	Range 80 - 120		Recovery = 87.30%		
46) Toluene-d8	10.27	98	440581	9.34 ug\L	0.00
Spiked Amount 10.000	Range 87 - 104		Recovery = 93.40%		
65) Bromofluorobenzene	14.88	95	205672	9.48 ug\L	0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 94.80%		

Target Compounds					Qvalue
36) Trichloroethene	7.75	95	12766	~~0.59 ug\L #~~	9
64) 1,4-dichloro-2-Butene	14.87	75	97886	~~20.19 ug\L #~~	100
68) 1,2,3-Trichloropropane	14.87	75	97886	~~20.18 ug\L #~~	100
85) Naphthalene	20.87	128	641	1.01 ug\L	100

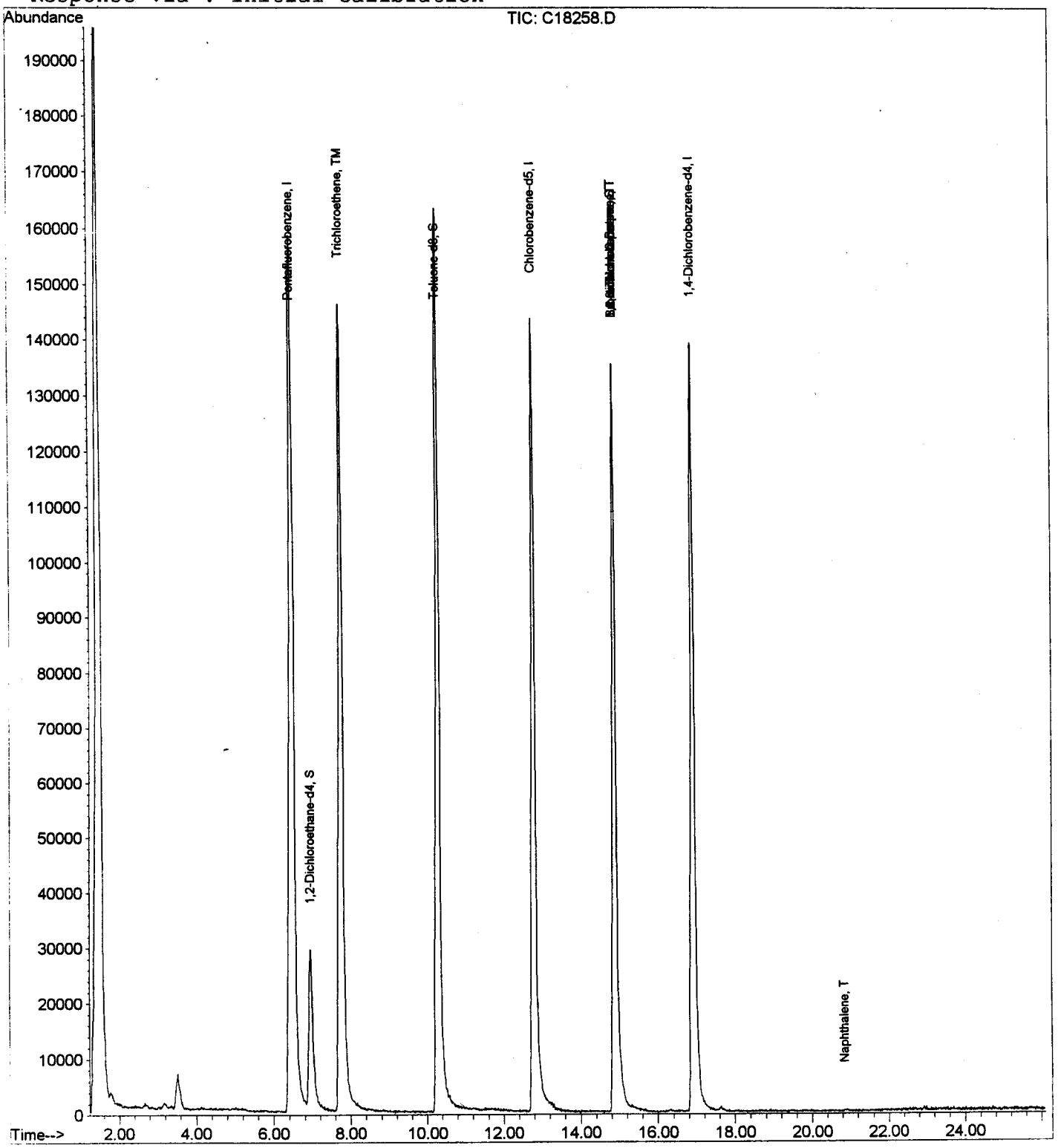
01/02/01

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\122900\C18258.D Vial: 9
Acq On : 29 Dec 2000 19:52 Operator: TAG/VR
Sample : AC05539 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 29 20:18 2000 Quant Results File: 12290025.RES

Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 08:48:11 2000
Response via : Initial Calibration



1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

029-SMW10-Q4

Lab Name: Accura Analytical Lab. Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: AC05539

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: C18258.D

Level: (low/med) LOW Date Received: 12/21/00

% Moisture: not dec. _____ Date Analyzed: 12/29/00

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\122900\C18258.D Vial: 9
Acq On : 29 Dec 2000 19:52 Operator: TAG/VR
Sample : AC05539 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

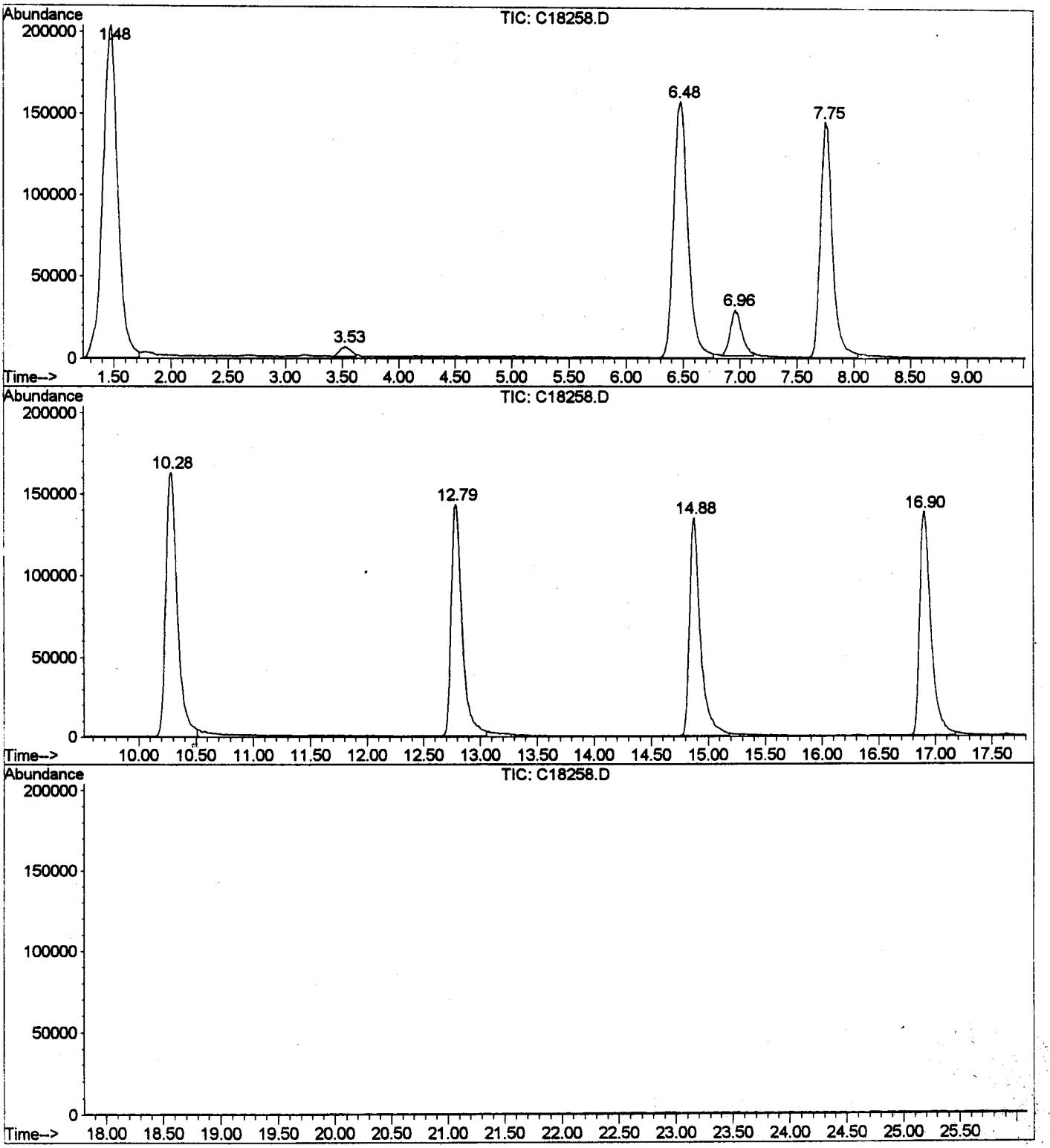
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	1.477	3	26	51	rBV	203620	1827251	100.00%	21.681%
2	3.529	222	234	243	rBV4	6263	40160	2.20%	0.477%
3	6.477	514	533	562	rBV2	158100	1363788	74.64%	16.182%
4	6.961	569	582	598	rBV2	27916	195500	10.70%	2.320%
5	7.749	647	662	691	rBV2	145612	1071257	58.63%	12.711%
6	10.284	902	919	942	rBV2	162915	1127485	61.70%	13.378%
7	12.789	1160	1173	1200	rBV2	143057	953012	52.16%	11.308%
8	14.880	1372	1385	1416	rBV2	134861	900120	49.26%	10.680%
9	16.901	1579	1590	1618	rBV	138609	949203	51.95%	11.263%

Sum of corrected areas: 8427776

C18258.D 12290025.M Thu Jan 04 10:22:41 2001 RPT1

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\122900\C18258.D
Operator : TAG/VR
Acquired : 29 Dec 2000 19:52 using AcqMethod 12290025
Instrument : VOA-C
Sample Name: AC05539 25ml DF=1
Misc Info : 26563/C12140025
Vial Number: 9
Quant File :12290025.RES (RTE Integrator)



C18258.D 12290025.M Thu Jan 04 10:22:42 2001 RPT1

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\122900\C18258.D Vial: 9
Acq On : 29 Dec 2000 19:52 Operator: TAG/VR
Sample : AC05539 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: LSCINT.P

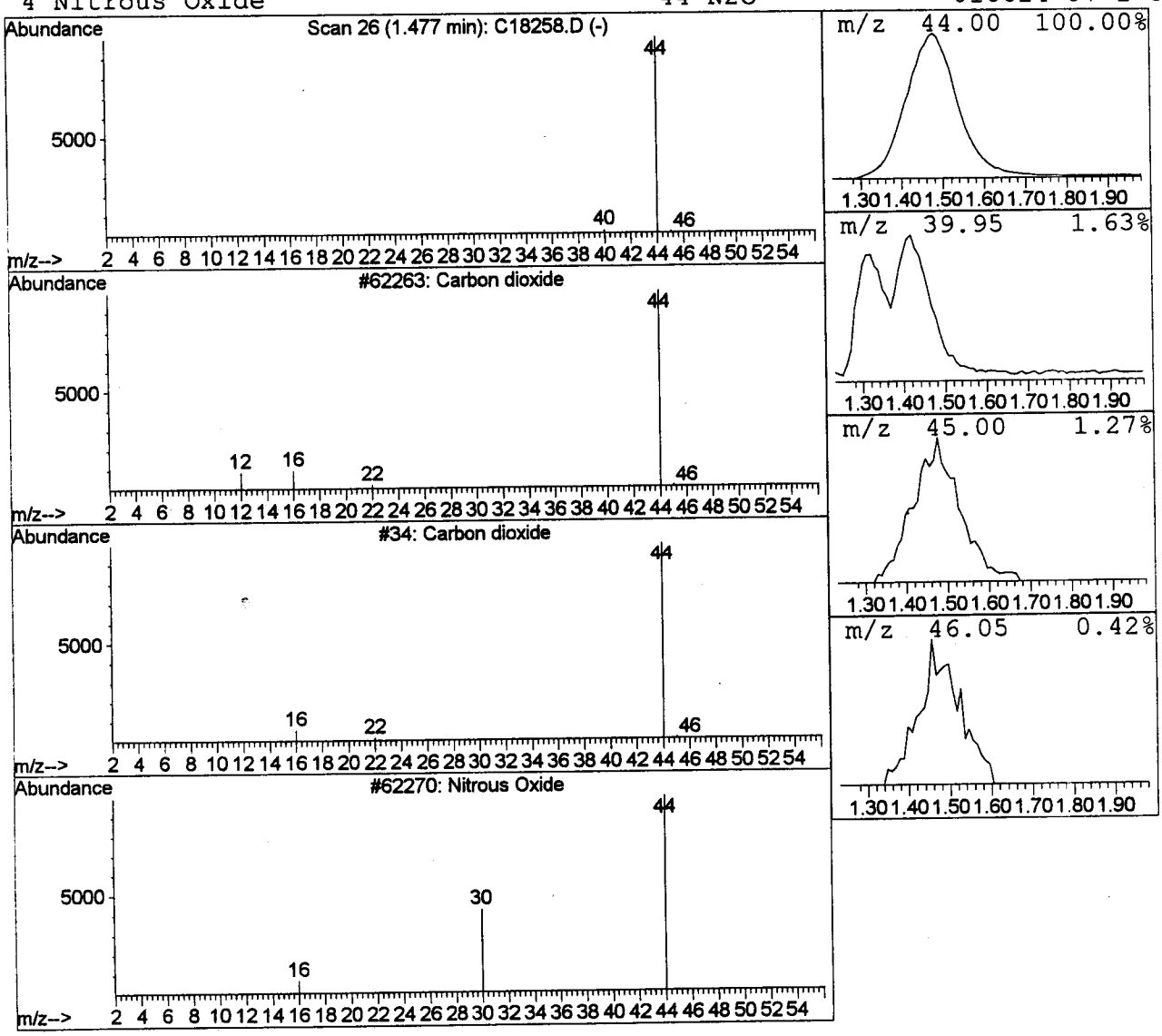
Quant Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

****

Peak Number 1 Carbon dioxide Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.48	13.40 ug\L	1827250	Pentafluorobenzene	6.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbon dioxide	44	CO2	000124-38-9	4
2	Carbon dioxide	44	CO2	000124-38-9	4
3	Nitrous Oxide	44	N2O	010024-97-2	3
4	Nitrous Oxide	44	N2O	010024-97-2	3



Data File : C:\HPCHEM\1\DATA\122900\C18258.D
Acq On : 29 Dec 2000 19:52
Sample : AC05539 25ml DF=1
Misc : 26563/C12140025
MS Integration Params: LSCINT.P

Vial: 9
Operator: TAG/VR
Inst : VOA-C
Multiplr: 1.00

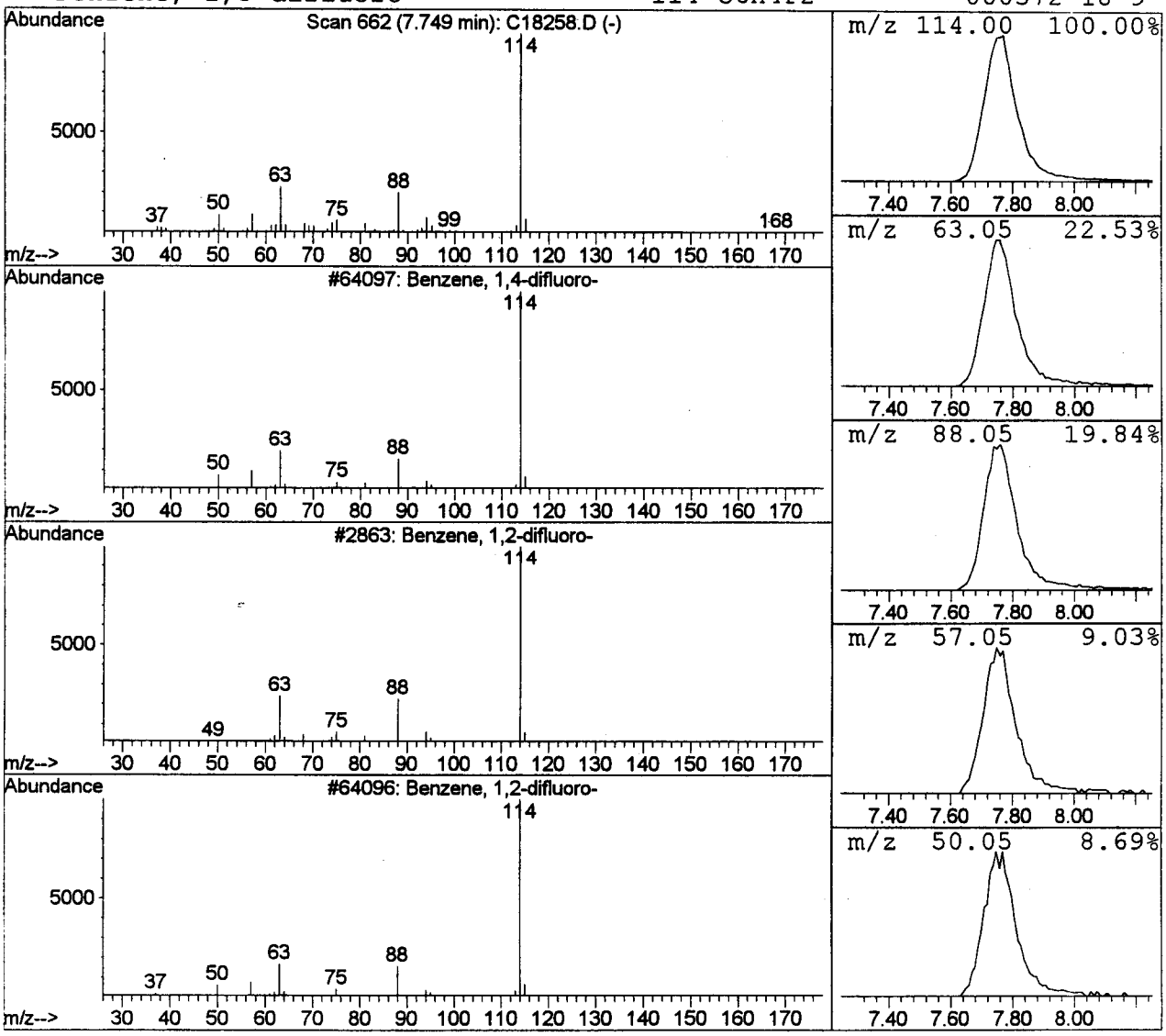
Quant Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

****

Peak Number 2 Benzene, 1,4-difluoro- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.75	7.86 ug\L	1071260	Pentafluorobenzene	6.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,4-difluoro-	114	C6H4F2	000540-36-3	97
2	Benzene, 1,2-difluoro-	114	C6H4F2	000367-11-3	95
3	Benzene, 1,2-difluoro-	114	C6H4F2	000367-11-3	94
4	Benzene, 1,3-difluoro-	114	C6H4F2	000372-18-9	94



Tentatively Identified Compound (LSC) summary

Operator ID: TAG/VR Date Acquired: 29 Dec 2000 19:52
Data File: C:\HPCHEM\1\DATA\122900\C18258.D
Name: AC05539 25ml DF=1
Misc: 26563/C12140025
Method: c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title: 8260 CALIBRATION FOR 25ML WATER
Library Searched: C:\DATABASE\NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Carbon dioxide	1.48	13.4	ug\L	1827250	ISTD01	6.48	1363790	10.0
Benzene, 1,4-difluor	7.75	7.9	ug\L	1071260	ISTD01	6.48	1363790	10.0

C18258.D 12290025.M Thu Jan 04 10:22:46 2001 RPT1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\010301\01030110.D Vial: 10
Acq On : 3 Jan 2001 20:17 Operator: MT
Sample : AC05540 5X Inst : DRO-B
Misc : 26563 1000mL Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 4 10:12 2001 Quant Results File: PRO1208.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.09	262079	5.676 ug/mlm
Spiked Amount 50.000		Recovery =	11.35% x5 = 57 x MT
3) SC C(39)	34.36	461848	10.513 ug/mlm
Spiked Amount 300.000		Recovery =	3.50% x5 = 18 x MT
Target Compounds			
1) HM Florida PRO	3.70	172081616	3025.585 ug/ml /1000 =

MT 1-04-00
3.026/~~42~~ x 5 =

15ppm
MT

(f)=RT Delta > 1/2 Window (m)=manual int.

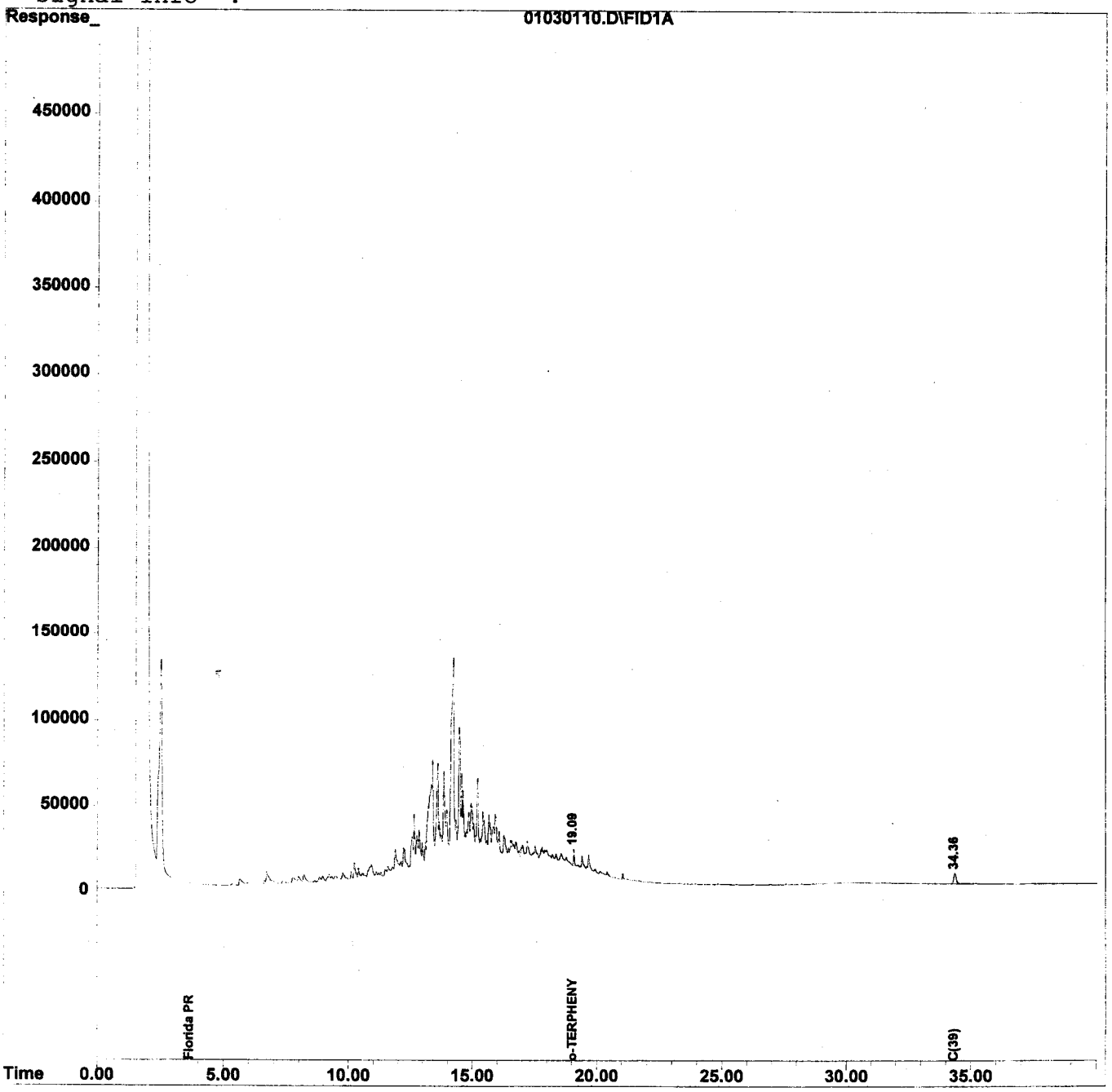
Quantitation Report

Data File : C:\HPCHEM\2\DATA\010301\01030110.D
Acq On : 3 Jan 2001 20:17
Sample : AC05540 5X
Misc : 26563 1000mL
IntFile : events.e
Quant Time: Jan 4 10:12 2001 Quant Results File: PRO1208.RES

Vial: 10
Operator: MT
Inst : DRO-B
Multiplr: 1.00

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\122900\C18254.D
Acq On : 29 Dec 2000 17:50
Sample : AC05540 25ml DF=1
Misc : 26563/C12140025
MS Integration Params: rteint.p
Quant Time: Dec 29 18:16 2000

Vial: 5
Operator: TAG/VR
Inst : VOA-C
Multiplr: 1.00

Quant Results File: 12290025.RES

Quant Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 10:24:33 2000
Response via : Initial Calibration
DataAcq Meth : 12290025

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	6.45	168	469188	10.00 ug\L	-0.02
45) Chlorobenzene-d5	12.77	117	320997	10.00 ug\L	0.00
61) 1,4-Dichlorobenzene-d4	16.89	152	159565	10.00 ug\L	0.00
System Monitoring Compounds					
32) 1,2-Dichloroethane-d4	6.93	65	81745	8.78 ug\L	-0.01
Spiked Amount 10.000	Range 80 - 120		Recovery = 87.80%		
46) Toluene-d8	10.26	98	446629	9.40 ug\L	-0.02
Spiked Amount 10.000	Range 87 - 104		Recovery = 94.00%		
65) Bromofluorobenzene	14.86	95	220814	9.98 ug\L	-0.01
Spiked Amount 10.000	Range 84 - 110		Recovery = 99.80%		

Target Compounds					Qvalue
8) Acrolein	4.08	56	148	~~0.56 ug\L #~~	1
11) Acetone	3.04	58	200	~~3.26 ug\L #~~	32
16) Methylene Chloride	3.51	86	4391	~~0.58 ug\L #~~	58
34) Isobutyl alcohol	7.18	43	642	~~17.51 ug\L #~~	17
41) 2-Nitropropane	9.59	43	828	~~2.87 ug\L #~~	100
49) Ethylmethacrylate	11.10	69	464	~~1.13 ug\L #~~	1
53) 2-Hexanone	11.72	43	1904	~~1.29 ug\L #~~	41
58) Ethylbenzene	13.03	91	1217556	19.59 ug\L	99
59) total-Xylene	14.57	106	94305m	10.29 ug\L	
63) Isopropylbenzene	14.59	105	619808	8.00 ug\L	99
64) 1,4-dichloro-2-Butene	15.31	75	3680	~~0.74 ug\L #~~	100
68) 1,2,3-Trichloropropane	15.31	75	3680	~~0.74 ug\L #~~	100
69) n-Propylbenzene	15.31	91	688656	8.28 ug\L	98
70) 2-Chlorotoluene	15.49	91	151339	~~3.33 ug\L #~~	33
71) 4-Chlorotoluene	15.63	91	149871	~~2.47 ug\L #~~	54
72) 1,3,5-Trimethylbenzene	15.63	105	1332180	22.43 ug\L	88
74) tert-Butylbenzene	16.29	119	469779	~~6.53 ug\L #~~	56
75) 1,2,4-Trimethylbenzene	16.29	105	4093371	73.45 ug\L #	85 NDL
76) sec-Butylbenzene	16.58	105	528857	5.92 ug\L	94
78) Isopropyltoluene	16.83	119	669062	9.58 ug\L	94
81) n-Butylbenzene	17.58	91	367129	~~5.41 ug\L #~~	1
82) 1,2-Dibromo-3-chloropropan	19.05	75	10131	~~9.32 ug\L #~~	16
83) 1,2,4-trichlorobenzene	20.44	180	11123	0.78 ug\L	100
85) Naphthalene	20.88	128	350497	31.36 ug\L	100
86) 1,2,3-Trichlorobenzene	21.31	180	12350	1.23 ug\L #	77

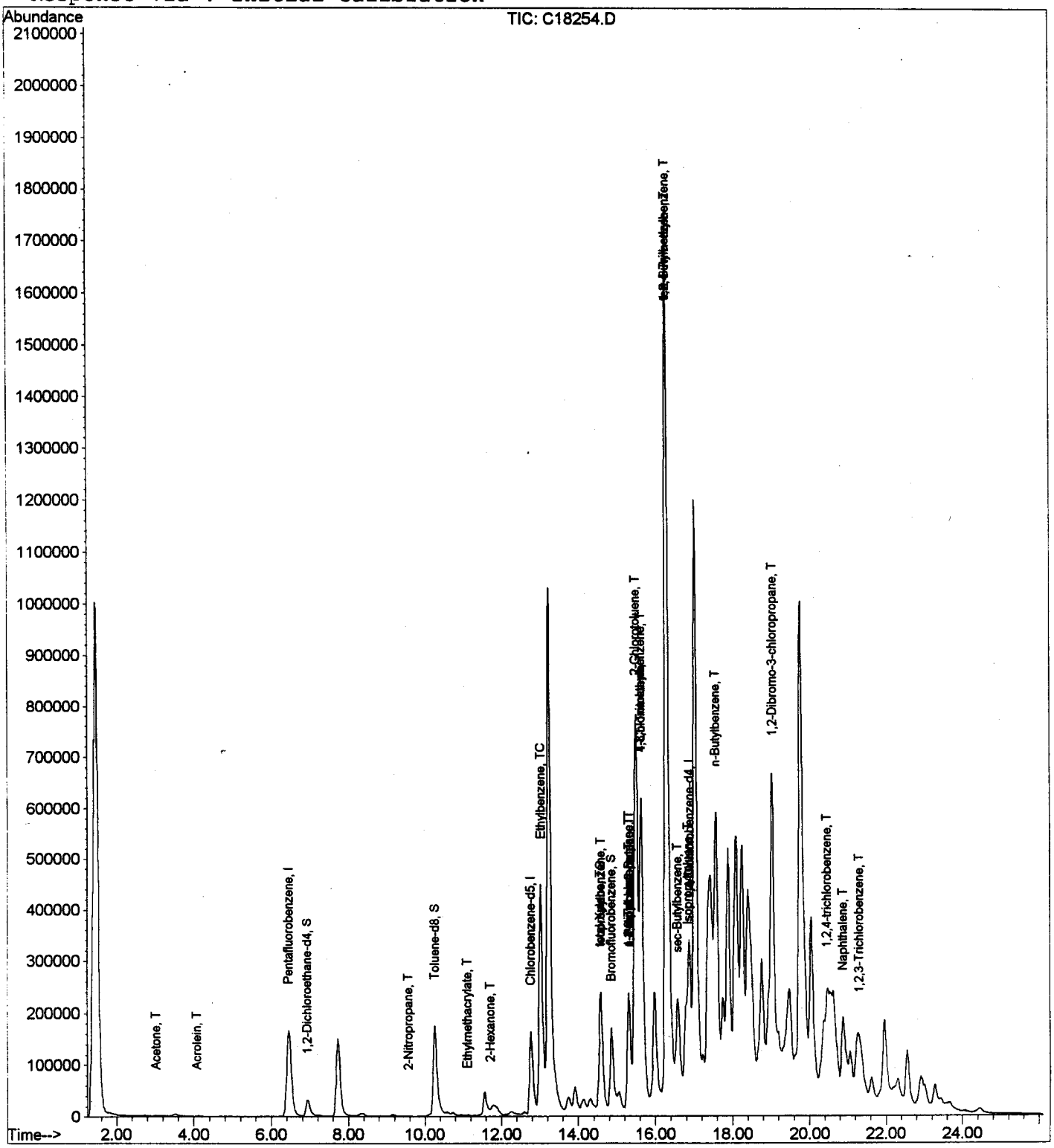
VR
01/02/01

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\122900\C18254.D Vial: 5
Acq On : 29 Dec 2000 17:50 Operator: TAG/VR
Sample : AC05540 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 29 18:16 2000 Quant Results File: 12290025.RES

Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 10:24:33 2000
Response via : Initial Calibration



1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

029-SMW11-Q4

Lab Name: Accura Analytical Lab. Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: AC05540

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: C18254.D

Level: (low/med) LOW Date Received: 12/21/00

% Moisture: not dec. _____ Date Analyzed: 12/29/00

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 17

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000000-00-0	2,3,5-Trimethylfuran	11.56	3	JN
2. 000611-14-3	Benzene, 1-ethyl-2-methyl-	15.49	26	JN
3. 000622-96-8	Benzene, 1-ethyl-4-methyl-	15.99	6	JN
4. 000622-96-8	Benzene, 1-ethyl-4-methyl-	17.02	32	JN
5.	Aromatic, unknown	17.43	16	J
6. 001758-88-9	Benzene, 2-ethyl-1,4-dimethyl-	17.57	14	JN
7. 000135-01-3	Benzene Isomer, diethyl-	17.75	3	JN
8. 001074-43-7	Benzene, 1-methyl-3-propyl-	17.88	12	JN
9. 000535-77-3	Benzene, 1-methyl-3-(1-methylet	18.09	15	JN
10. 000874-41-9	Benzene, 1-ethyl-2,4-dimethyl-	18.24	13	JN
11. 027133-93-3	2,3-Dihydro-1-methylindene	18.40	14	JN
12. 000099-87-6	Benzene, 1-methyl-4-(1-methylet	18.76	4	JN
13. 000527-53-7	Benzene, 1,2,3,5-tetramethyl-	19.03	13	JN
14. 000099-87-6	Benzene Isomer, methyl(methyle	19.77	32	JN
15. 000119-64-2	Naphthalene, 1,2,3,4-tetrahydro-	20.05	10	JN
16. 002809-64-5	Naphthalene Isomer, tetrahydro-	21.95	4	JN
17. 002809-64-5	Naphthalene, 1,2,3,4-tetrahydro-	22.55	3	JN

LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\122900\C18254.D Vial: 5
Acq On : 29 Dec 2000 17:50 Operator: TAG/VR
Sample : AC05540 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\DATA\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	1.459	3	24	55	rBV	1002519	8721259	79.01%	9.504%
2	6.449	512	530	562	rBV	165474	1401218	12.69%	1.527%
3	6.932	567	579	601	rBV5	30719	234717	2.13%	0.256%
4	7.721	643	659	687	rBV2	149641	1099069	9.96%	1.198%
5	10.266	903	917	940	rBV	169632	1186105	10.75%	1.293%
6	11.558	1037	1048	1061	rBV3	43327	289450	2.62%	0.315%
7	12.771	1160	1171	1186	rBV	157316	995260	9.02%	1.085%
8	13.027	1186	1197	1207	rVV	439529	2700435	24.46%	2.943%
9	13.234	1208	1218	1257	rVB2	1016708	6986807	63.30%	7.614%
10	13.747	1261	1270	1279	rBV7	21431	130681	1.18%	0.142%
11	13.924	1280	1288	1300	rVB2	39741	215020	1.95%	0.234%
12	14.585	1343	1355	1373	rBV2	220932	1380509	12.51%	1.504%
13	14.861	1373	1383	1397	rBV2	150384	914004	8.28%	0.996%
14	15.315	1417	1429	1436	rBV	219786	1305713	11.83%	1.423%
15	15.492	1437	1447	1456	rVV	741930	5284213	47.87%	5.759%
16	15.630	1457	1461	1483	rVB	581533	3367868	30.51%	3.670%
17	15.985	1486	1497	1512	rBV	196371	1213894	11.00%	1.323%
18	16.291	1516	1528	1548	rBV	1708957	11038050	100.00%	12.029%
19	16.577	1550	1557	1569	rVB3	149421	873725	7.92%	0.952%
20	16.873	1570	1587	1593	rBV4	261464	2050975	18.58%	2.235%
21	17.021	1594	1602	1619	rVB2	1090525	6584131	59.65%	7.175%
22	17.425	1628	1643	1650	rBV5	362472	3254447	29.48%	3.547%
23	17.573	1653	1658	1670	rVV4	485516	2799772	25.36%	3.051%
24	17.751	1671	1676	1681	rVV3	123417	582373	5.28%	0.635%
25	17.879	1682	1689	1700	rVV	415339	2439054	22.10%	2.658%
26	18.086	1700	1710	1719	rVV2	438724	3146632	28.51%	3.429%
27	18.244	1719	1726	1735	rVV3	420231	2635726	23.88%	2.872%
28	18.402	1736	1742	1763	rVB3	333796	2864633	25.95%	3.122%
29	18.757	1771	1778	1789	rVB4	165589	841286	7.62%	0.917%
30	19.033	1799	1806	1819	rVB	504891	2736628	24.79%	2.982%
31	19.772	1870	1881	1900	rBV	880359	6477494	58.68%	7.059%
32	20.049	1901	1909	1927	rVB2	312684	1998535	18.11%	2.178%

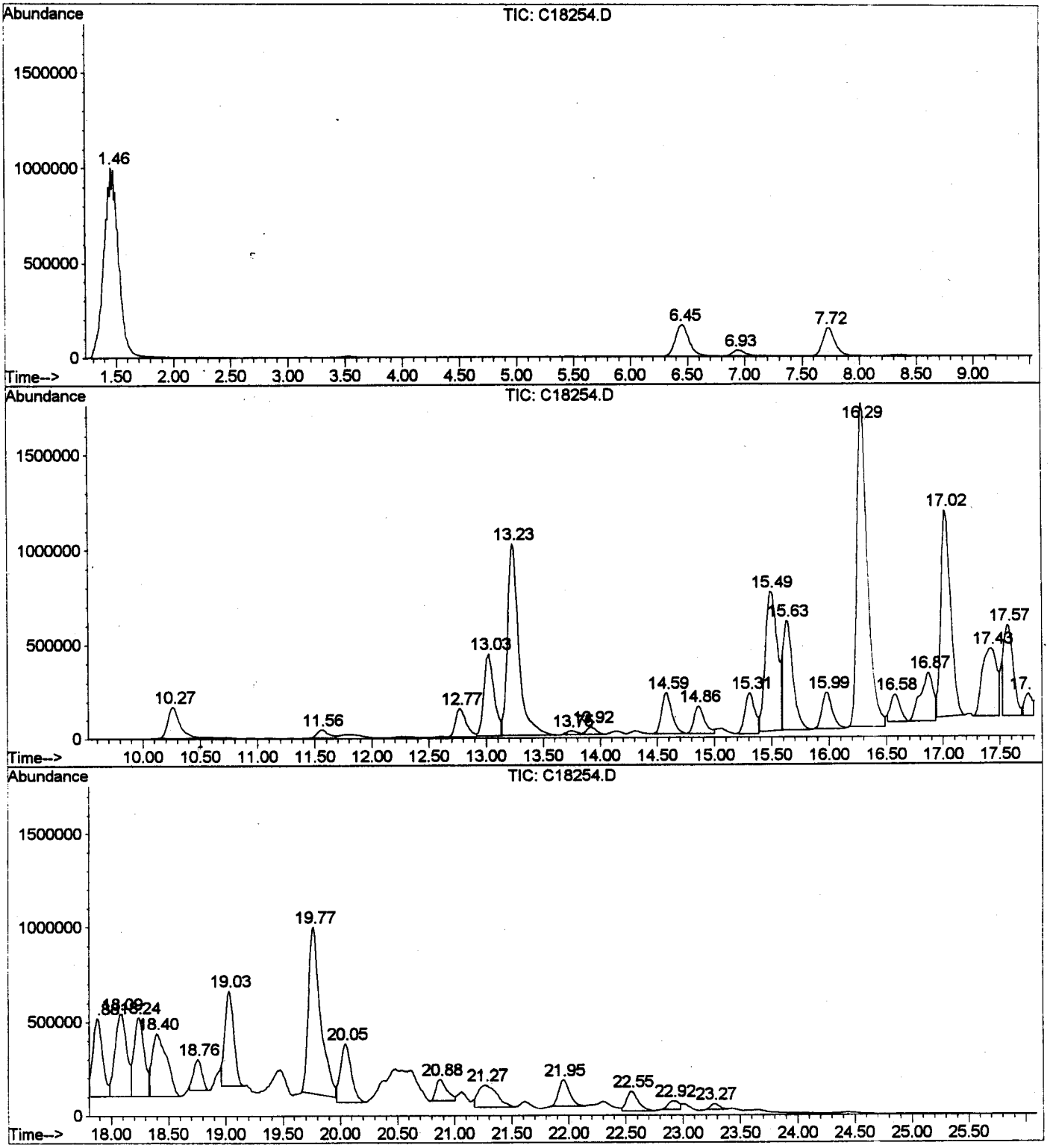
33	20.877	1985	1993	2006	rBV3	110884	694813	6.29%	0.757%
34	21.271	2023	2033	2059	rVB7	114939	1297956	11.76%	1.414%
35	21.952	2092	2102	2122	rBV3	135340	888480	8.05%	0.968%
36	22.553	2154	2163	2183	rVB3	102244	686771	6.22%	0.748%
37	22.918	2190	2200	2206	rBV5	44231	280493	2.54%	0.306%
38	23.273	2229	2236	2246	rBV2	31093	164425	1.49%	0.179%

Sum of corrected areas: 91762621

C18254.D 12290025.M Thu Jan 04 14:26:49 2001 RPT1

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\122900\C18254.D
Operator : TAG/VR
Acquired : 29 Dec 2000 17:50 using AcqMethod 12290025
Instrument : VOA-C
Sample Name: AC05540 25ml DF=1
Misc Info : 26563/C12140025
Vial Number: 5
Quant File :12290025.RES (RTE Integrator)



C18254.D 12290025.M Thu Jan 04 14:26:50 2001 RPT1

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\122900\C18254.D Vial: 5
Acq On : 29 Dec 2000 17:50 Operator: TAG/VR
Sample : AC05540 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: LSCINT.P

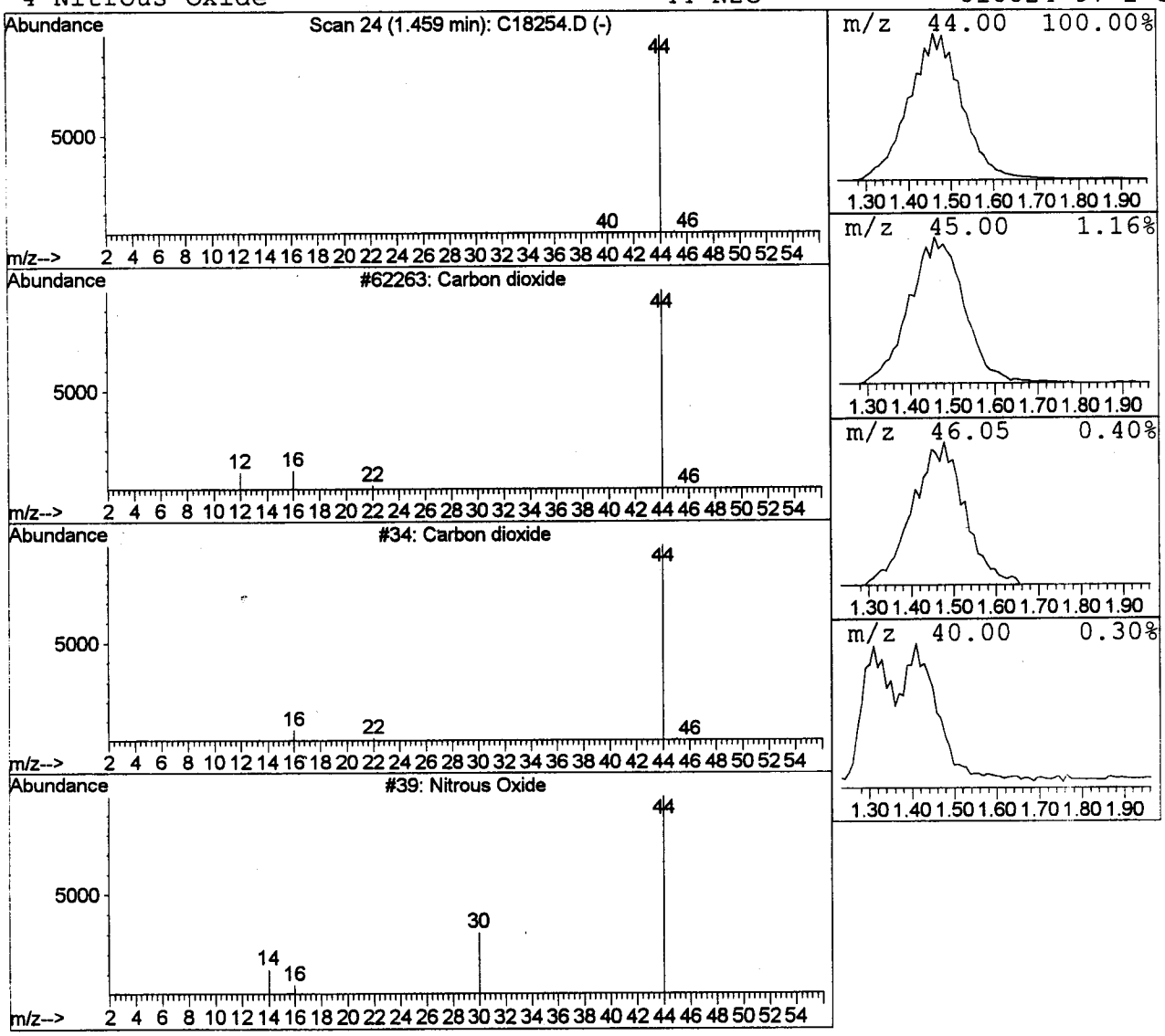
Quant Method : C:\HPCHEM\1\DATA\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

****

Peak Number 1 Carbon dioxide Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.46	62.24 ug\L	8721260	Pentafluorobenzene	6.45

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbon dioxide	44	CO2	000124-38-9	4
2	Carbon dioxide	44	CO2	000124-38-9	4
3	Nitrous Oxide	44	N2O	010024-97-2	3
4	Nitrous Oxide	44	N2O	010024-97-2	3



Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\122900\C18254.D Vial: 5
Acq On : 29 Dec 2000 17:50 Operator: TAG/VR
Sample : AC05540 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: LSCINT.P

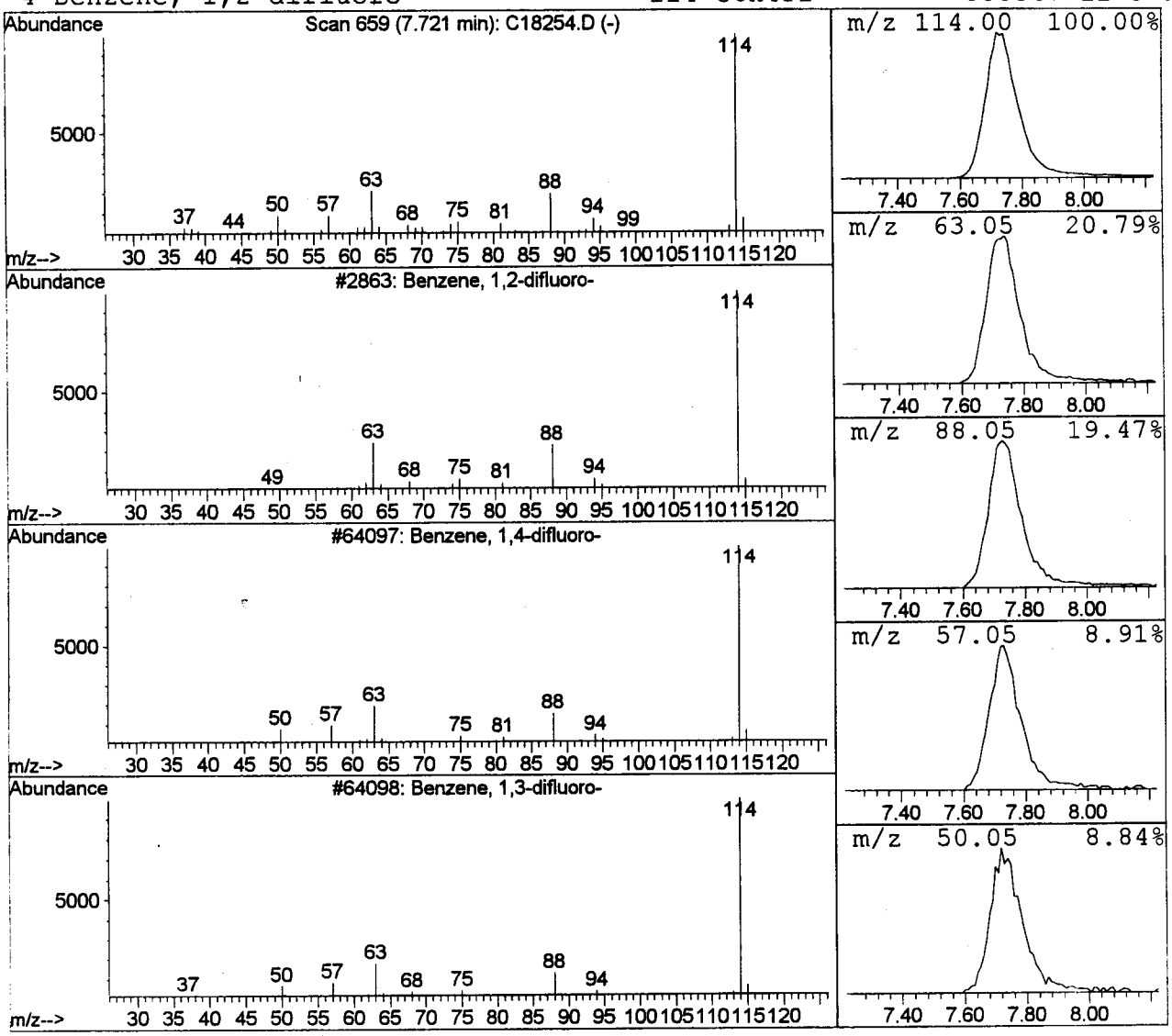
Quant Method : C:\HPCHEM\1\DATA\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

****

Peak Number 2 Benzene, 1,2-difluoro- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.72	7.84 ug\L	1099070	Pentafluorobenzene	6.45

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2-difluoro-	114	C6H4F2	000367-11-3	97
2	Benzene, 1,4-difluoro-	114	C6H4F2	000540-36-3	97
3	Benzene, 1,3-difluoro-	114	C6H4F2	000372-18-9	95
4	Benzene, 1,2-difluoro-	114	C6H4F2	000367-11-3	94



Data File : C:\HPCHEM\1\DATA\122900\C18254.D
Acq On : 29 Dec 2000 17:50
Sample : AC05540 25ml DF=1
Misc : 26563/C12140025
MS Integration Params: LSCINT.P

Vial: 5
Operator: TAG/VR
Inst : VOA-C
Multiplr: 1.00

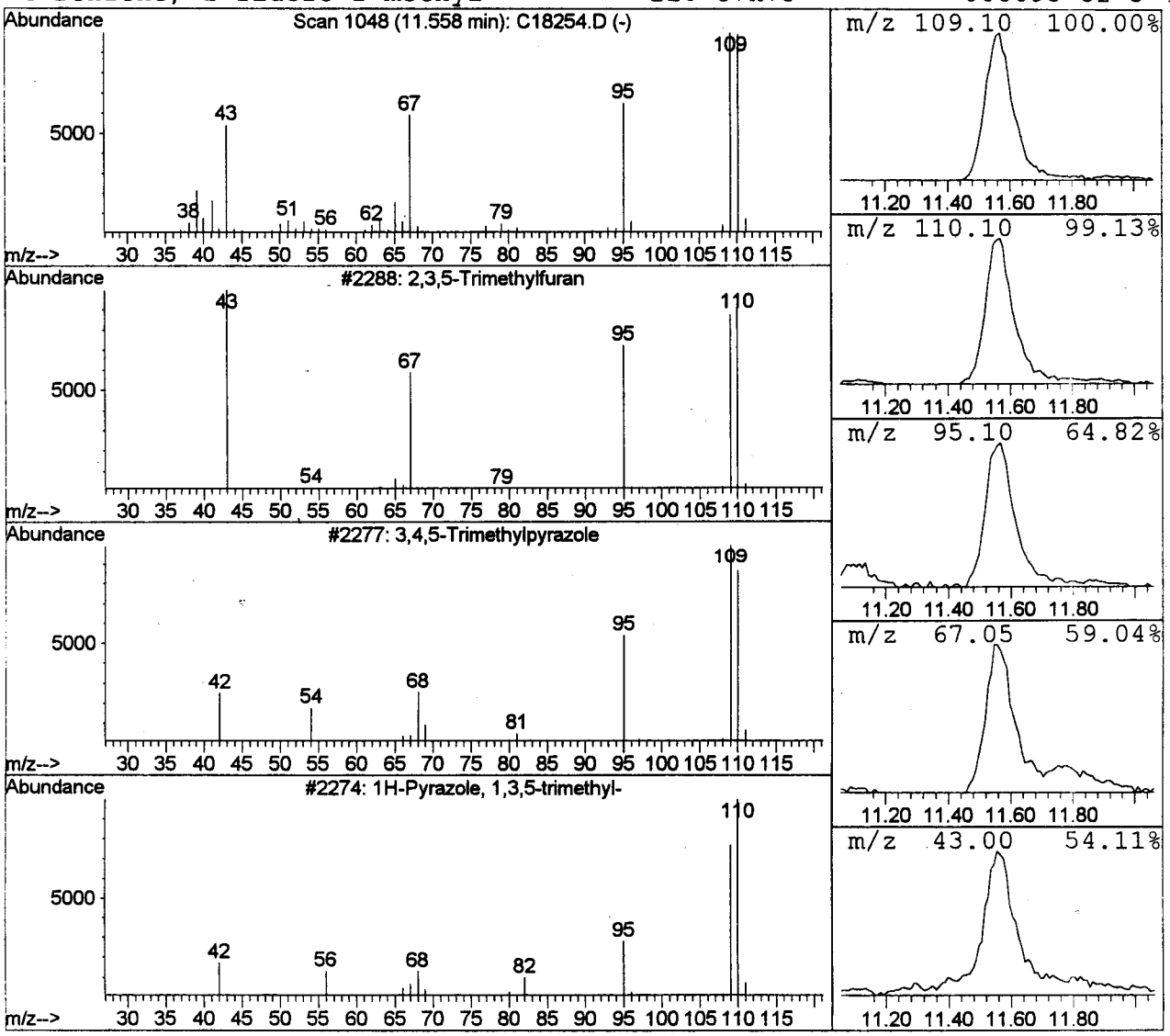
Quant Method : C:\HPCHEM\1\DATA\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

****

Peak Number 3 2,3,5-Trimethylfuran Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.56	2.91 ug\L	289450	Chlorobenzene-d5	12.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,3,5-Trimethylfuran	110	C7H10O	000000-00-0	86
2	3,4,5-Trimethylpyrazole	110	C6H10N2	005519-42-6	72
3	1H-Pyrazole, 1,3,5-trimethyl-	110	C6H10N2	001072-91-9	50
4	Benzene, 1-fluoro-2-methyl-	110	C7H7F	000095-52-3	49



Data File : C:\HPCHEM\1\DATA\122900\C18254.D
Acq On : 29 Dec 2000 17:50
Sample : AC05540 25ml DF=1
Misc : 26563/C12140025
MS Integration Params: LSCINT.P

Vial: 5
Operator: TAG/VR
Inst : VOA-C
Multiplr: 1.00

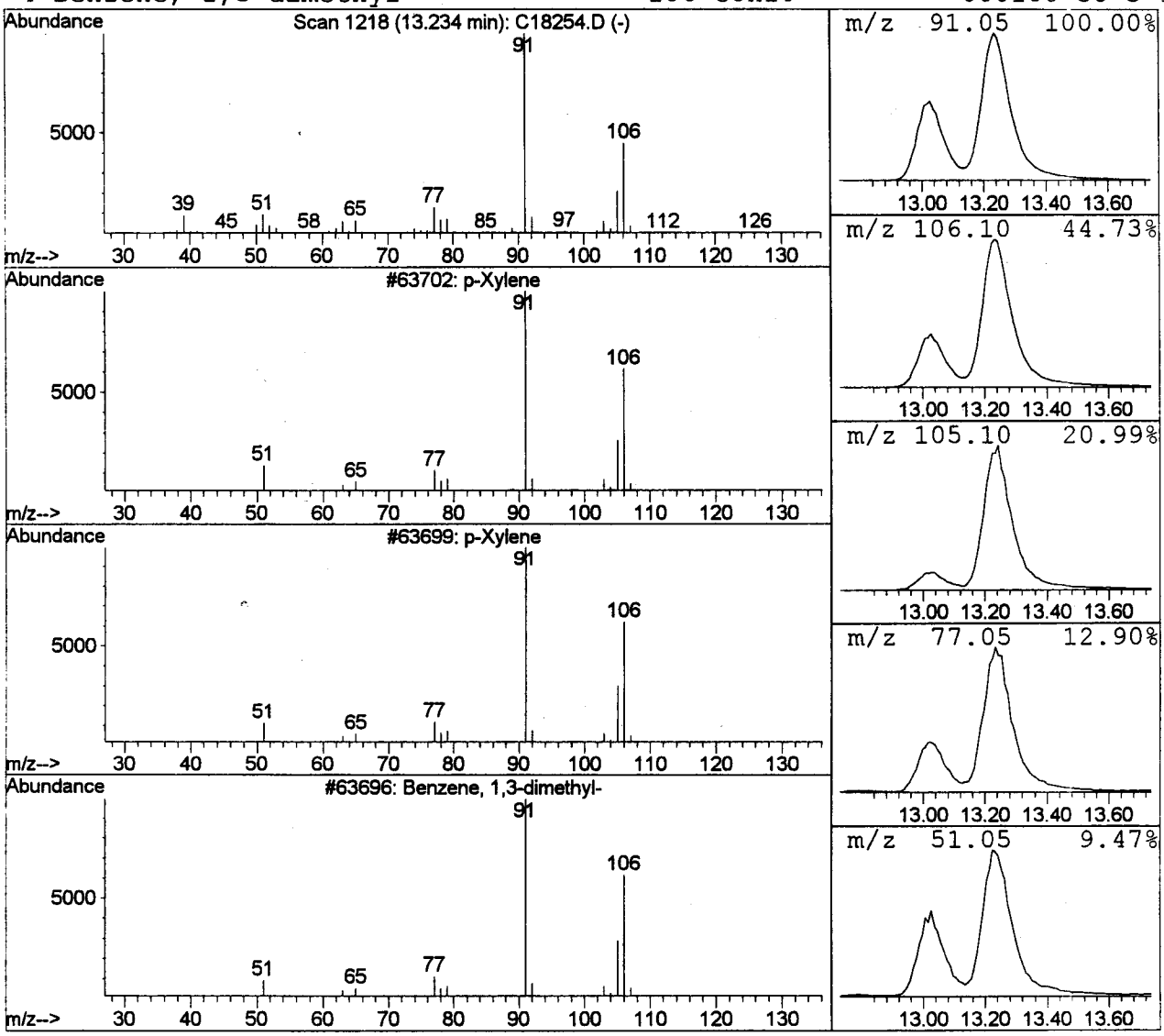
Quant Method : C:\HPCHEM\1\DATA\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

****

Peak Number 4 p-Xylene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.23	70.20 ug\L	6986810	Chlorobenzene-d5	12.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	p-Xylene	106	C8H10	000106-42-3	97
2	p-Xylene	106	C8H10	000106-42-3	97
3	Benzene, 1,3-dimethyl-	106	C8H10	000108-38-3	97
4	Benzene, 1,3-dimethyl-	106	C8H10	000108-38-3	97



Data File : C:\HPCHEM\1\DATA\122900\C18254.D Vial: 5
Acq On : 29 Dec 2000 17:50 Operator: TAG/VR
Sample : AC05540 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: LSCINT.P

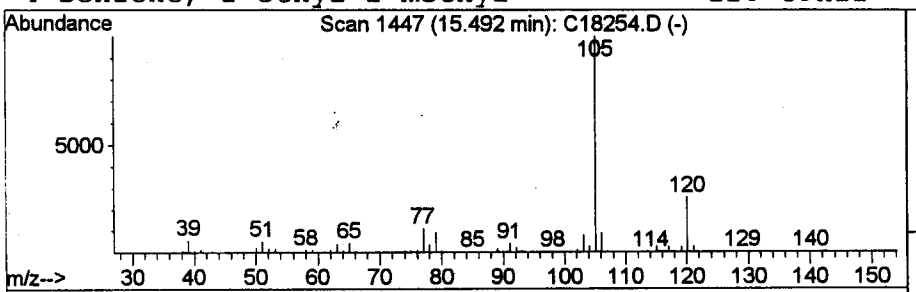
Quant Method : C:\HPCHEM\1\DATA\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

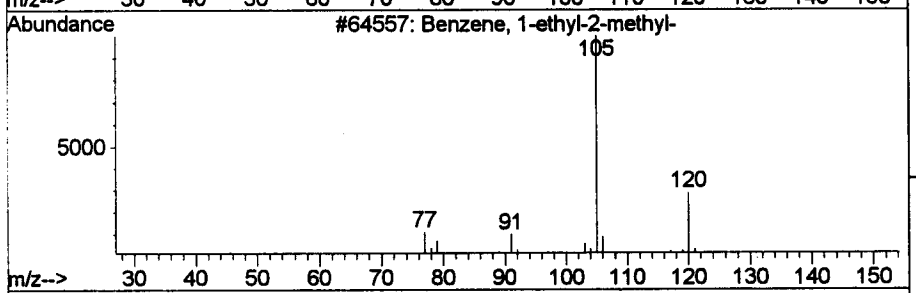
****

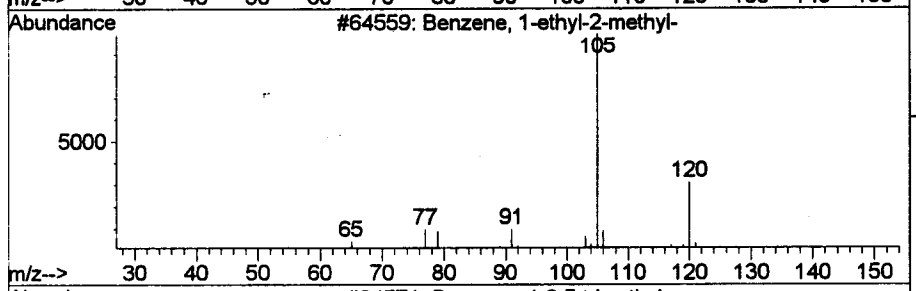
Peak Number 5 Benzene, 1-ethyl-2-methyl- Concentration Rank 5

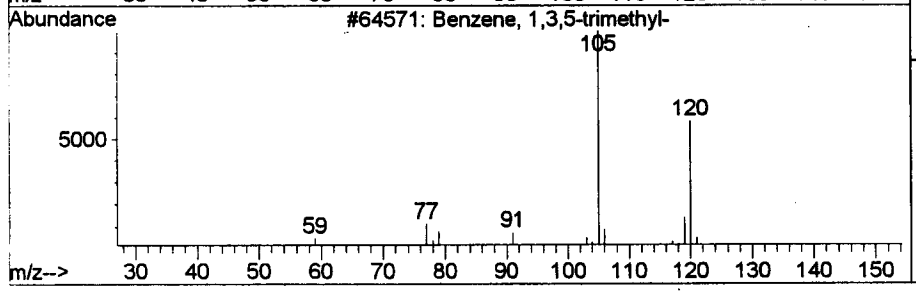
R.T.	EstConc	Area	Relative to ISTD	R.T.
15.49	25.76 ug\L	5284210	1,4-Dichlorobenzene-d4	16.89

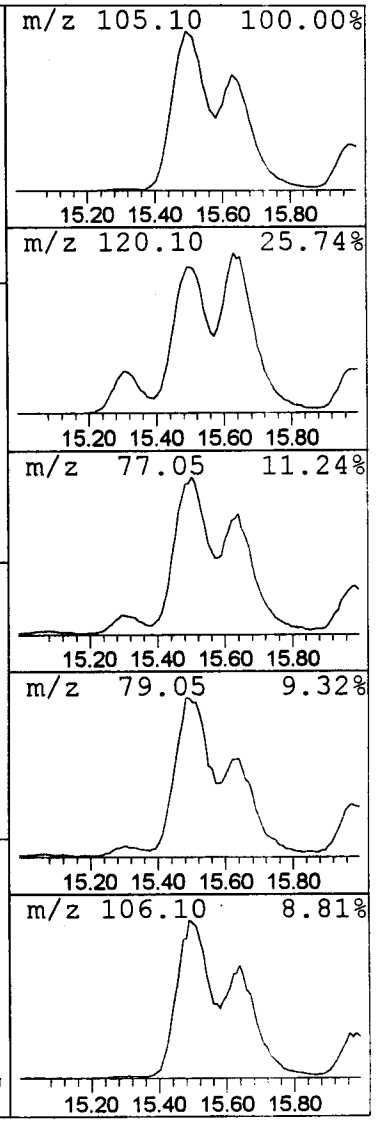
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	94
2	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	94
3	Benzene, 1,3,5-trimethyl-	120	C9H12	000108-67-8	91
4	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	91











Data File : C:\HPCHEM\1\DATA\122900\C18254.D Vial: 5
Acq On : 29 Dec 2000 17:50 Operator: TAG/VR
Sample : AC05540 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: LSCINT.P

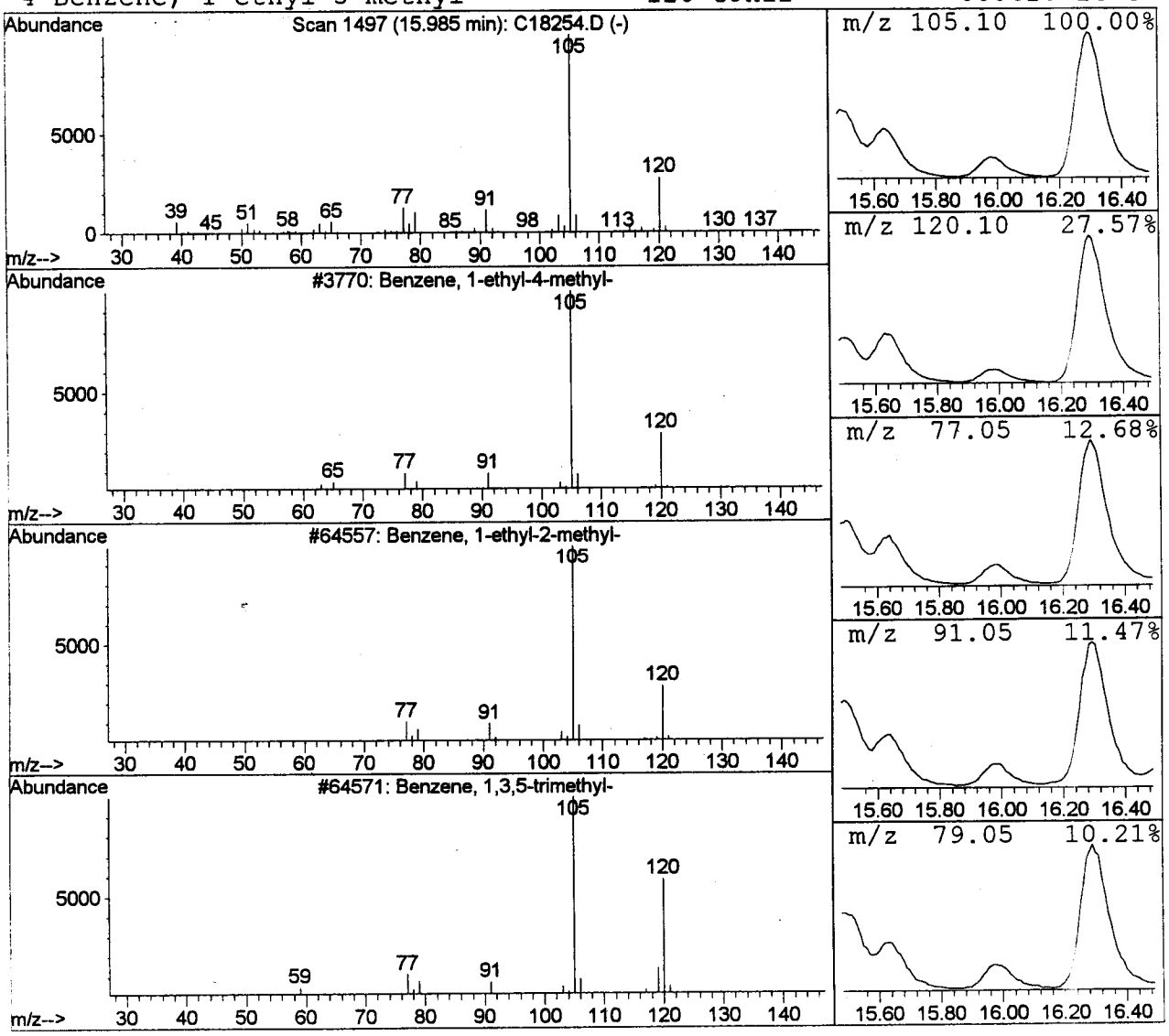
Quant Method : C:\HPCHEM\1\DATA\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

****

Peak Number 6 Benzene, 1-ethyl-4-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.99	5.92 ug\L	1213890	1,4-Dichlorobenzene-d4	16.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-4-methyl-	120	C9H12	000622-96-8	94
2	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	91
3	Benzene, 1,3,5-trimethyl-	120	C9H12	000108-67-8	91
4	Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	91



Data File : C:\HPCHEM\1\DATA\122900\C18254.D Vial: 5
Acq On : 29 Dec 2000 17:50 Operator: TAG/VR
Sample : AC05540 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: LSCINT.P

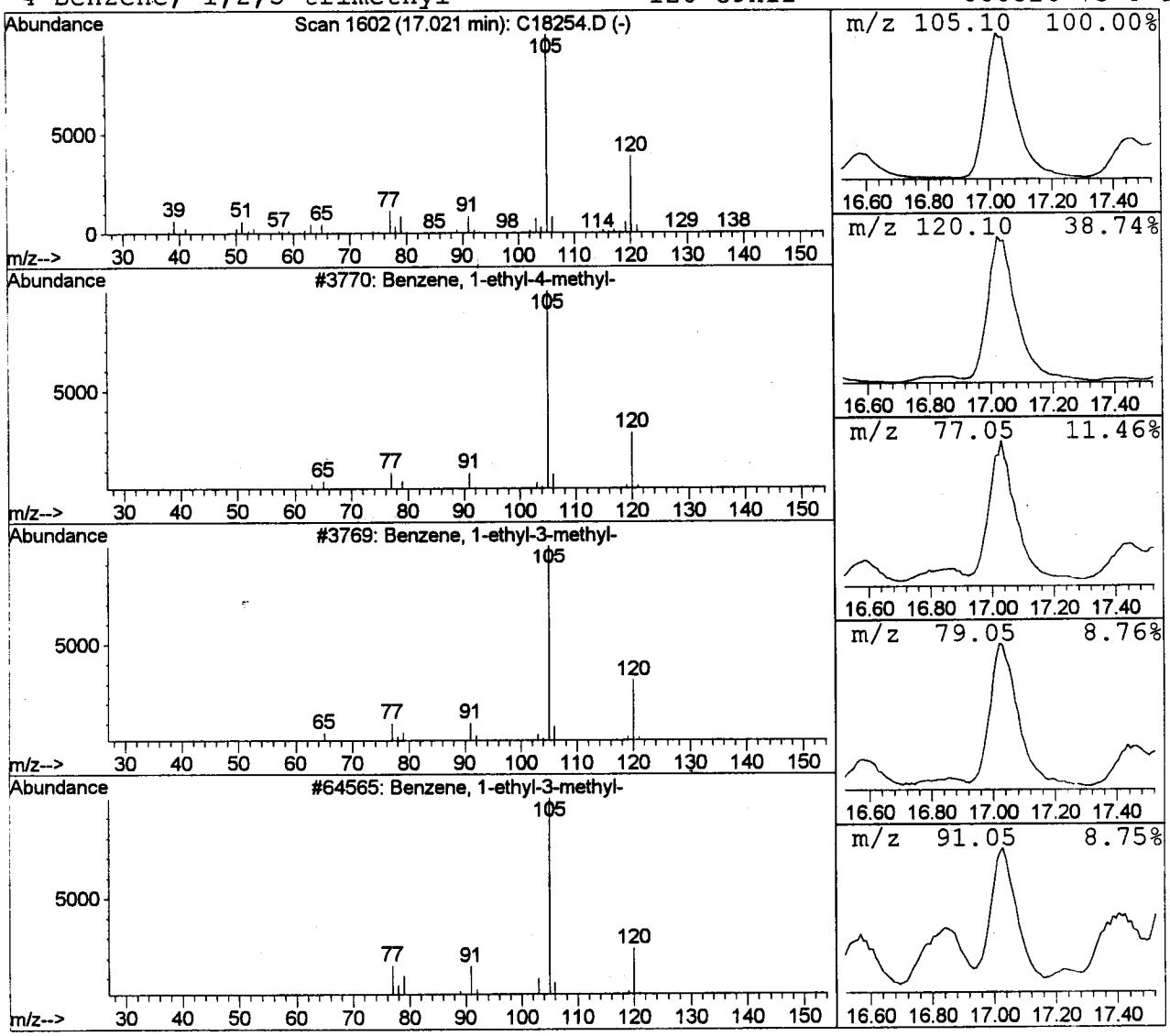
Quant Method : C:\HPCHEM\1\DATA\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

****

Peak Number 7 Benzene, 1-ethyl-4-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.02	32.10 ug\L	6584130	1,4-Dichlorobenzene-d4	16.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-4-methyl-	120	C9H12	000622-96-8	94
2	Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	94
3	Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	91
4	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	91



Data File : C:\HPCHEM\1\DATA\122900\C18254.D Vial: 5
Acq On : 29 Dec 2000 17:50 Operator: TAG/VR
Sample : AC05540 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: LSCINT.P

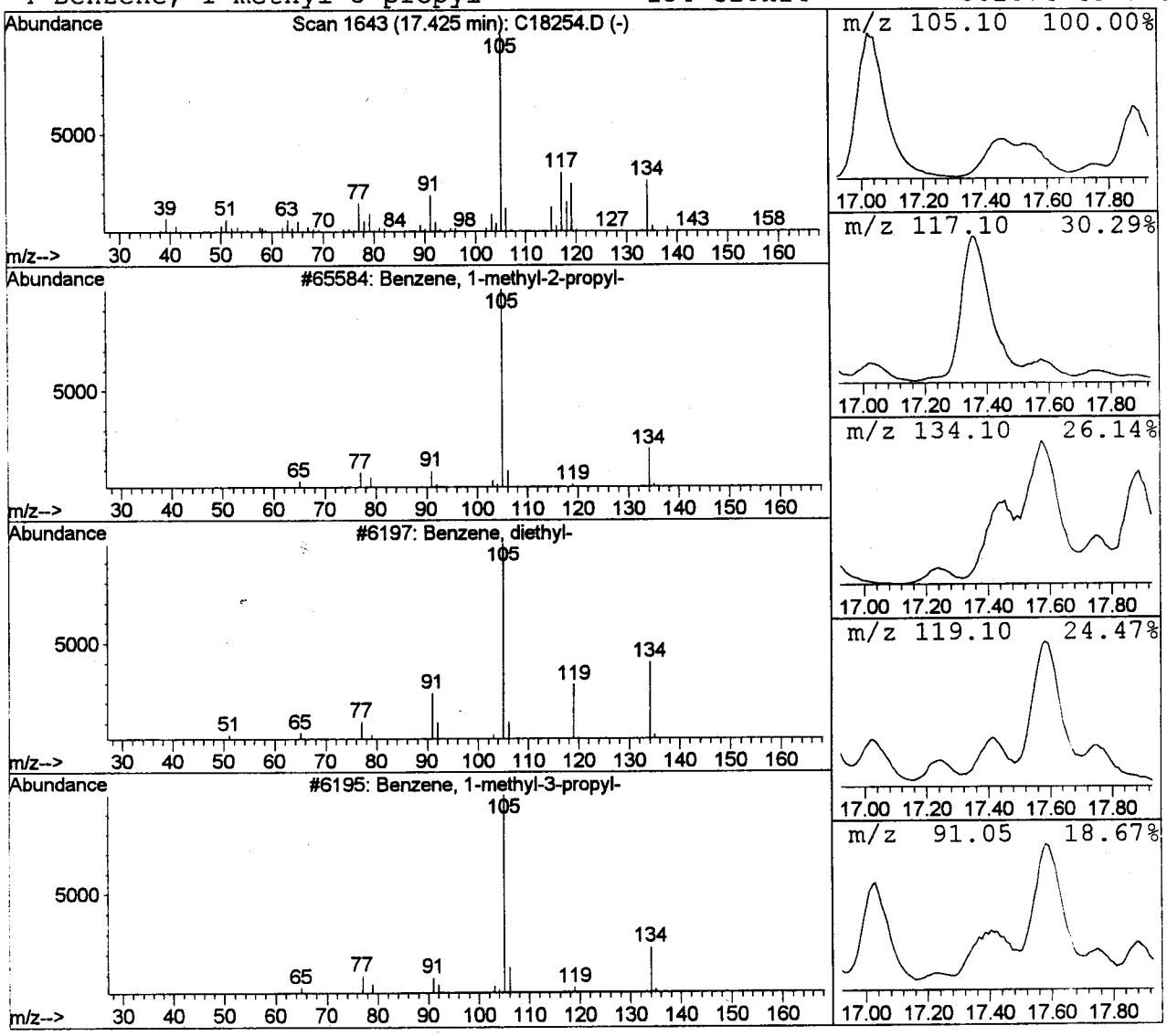
Quant Method : C:\HPCHEM\1\DATA\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

****

Peak Number 8 Benzene, 1-methyl-2-propyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.43	15.87 ug\L	3254450	1,4-Dichlorobenzene-d4	16.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methyl-2-propyl-	134	C10H14	001074-17-5	55
2	Benzene, diethyl-	134	C10H14	025340-17-4	50
3	Benzene, 1-methyl-3-propyl-	134	C10H14	001074-43-7	49
4	Benzene, 1-methyl-3-propyl-	134	C10H14	001074-43-7	49



Data File : C:\HPCHEM\1\DATA\122900\C18254.D Vial: 5
Acq On : 29 Dec 2000 17:50 Operator: TAG/VR
Sample : AC05540 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: LSCINT.P

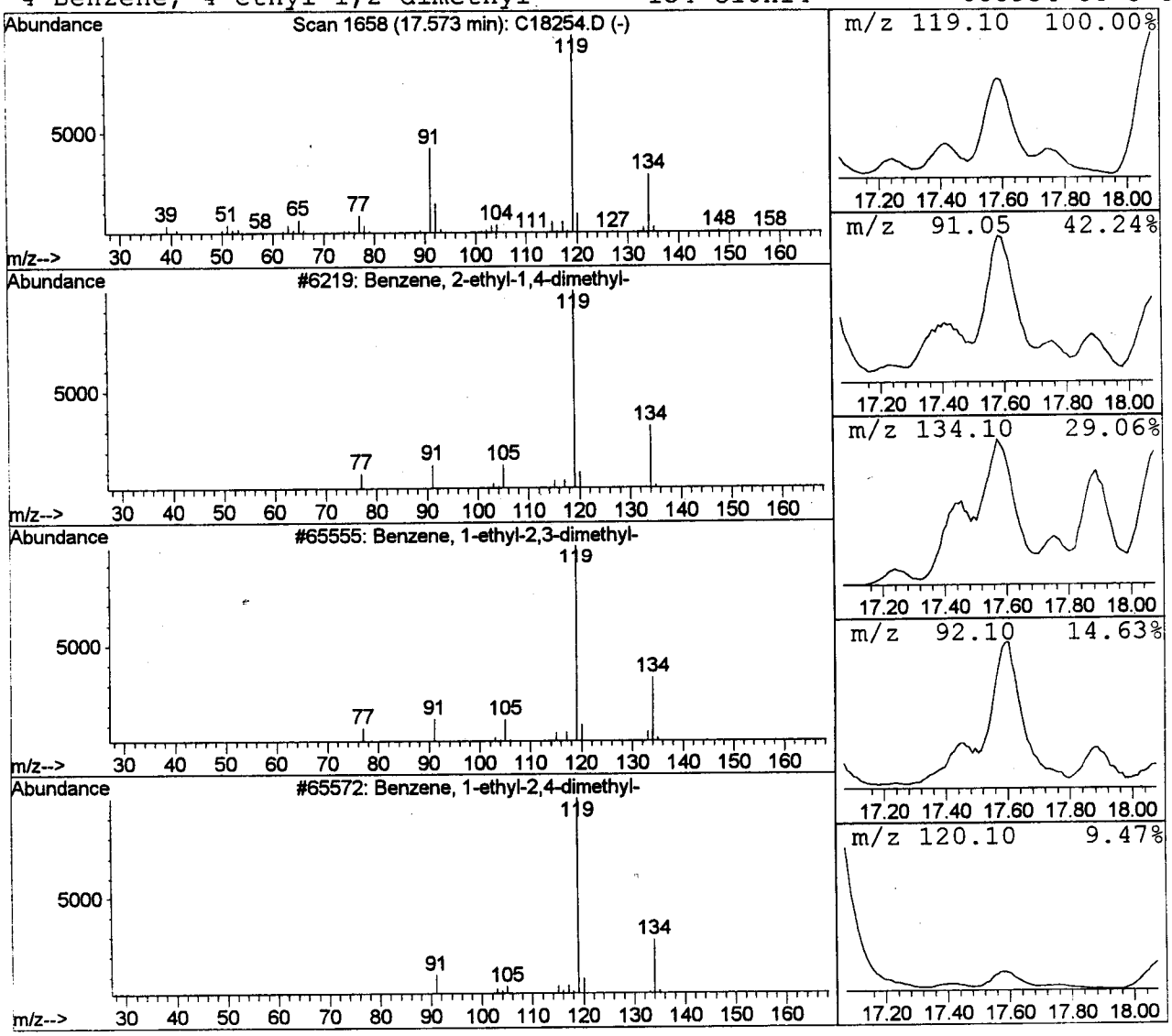
Quant Method : C:\HPCHEM\1\DATA\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

****

Peak Number 9 Benzene, 2-ethyl-1,4-dimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.57	13.65 ug\L	2799770	1,4-Dichlorobenzene-d4	16.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	90
2	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	87
3	Benzene, 1-ethyl-2,4-dimethyl-	134	C10H14	000874-41-9	87
4	Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	87



Data File : C:\HPCHEM\1\DATA\122900\C18254.D
Acq On : 29 Dec 2000 17:50
Sample : AC05540 25ml DF=1
Misc : 26563/C12140025
MS Integration Params: LSCINT.P

Vial: 5
Operator: TAG/VR
Inst : VOA-C
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\DATA\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

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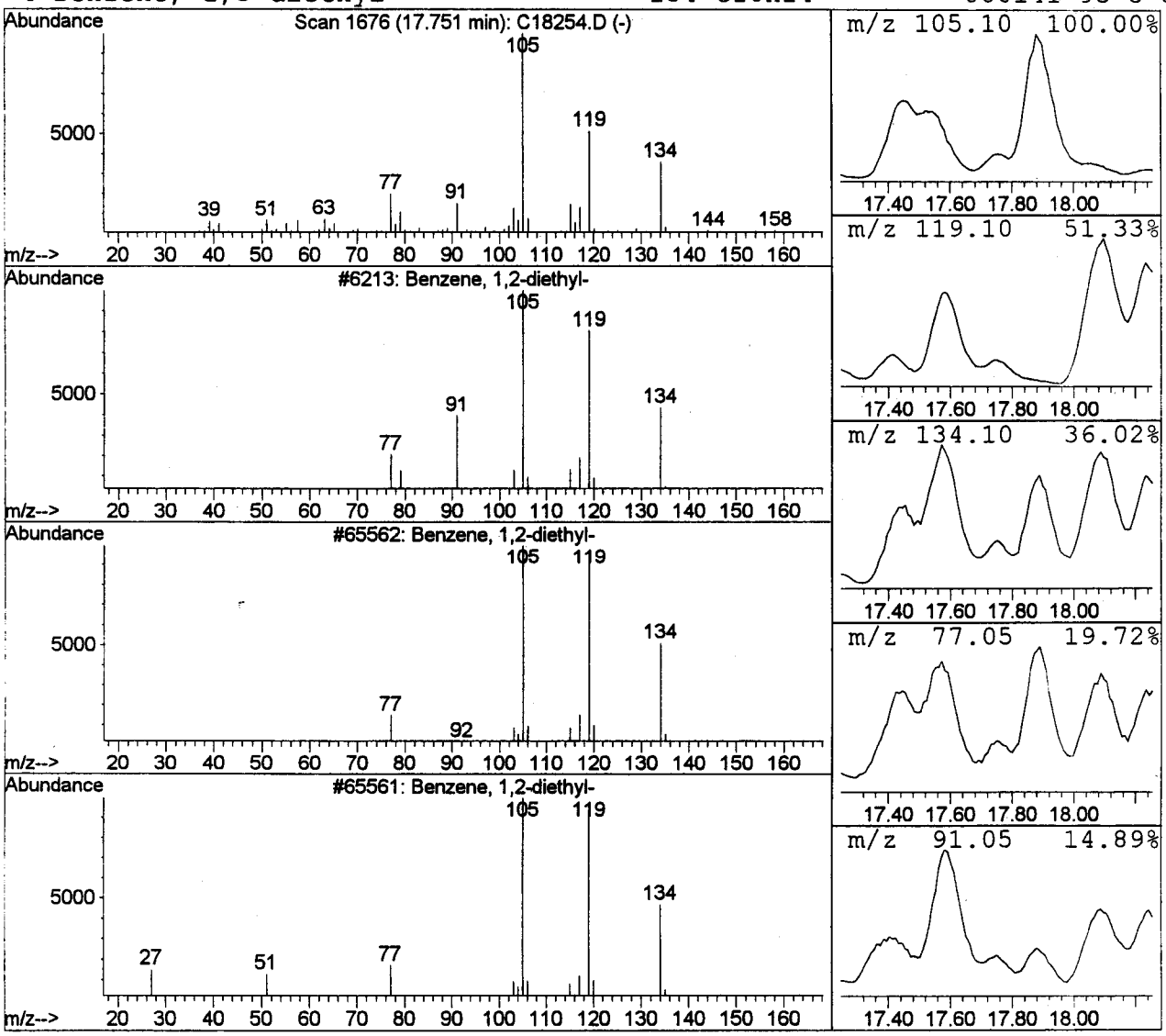
Peak Number 10 Benzene, 1,2-diethyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.75	2.84 ug\L	582373	1,4-Dichlorobenzene-d4	16.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2-diethyl-	134	C10H14	000135-01-3	81
2	Benzene, 1,2-diethyl-	134	C10H14	000135-01-3	72
3	Benzene, 1,2-diethyl-	134	C10H14	000135-01-3	53
4	Benzene, 1,3-diethyl-	134	C10H14	000141-93-5	50



Data File : C:\HPCHEM\1\DATA\122900\C18254.D
Acq On : 29 Dec 2000 17:50
Sample : AC05540 25ml DF=1
Misc : 26563/C12140025
MS Integration Params: LSCINT.P

Vial: 5
Operator: TAG/VR
Inst : VOA-C
Multiplr: 1.00

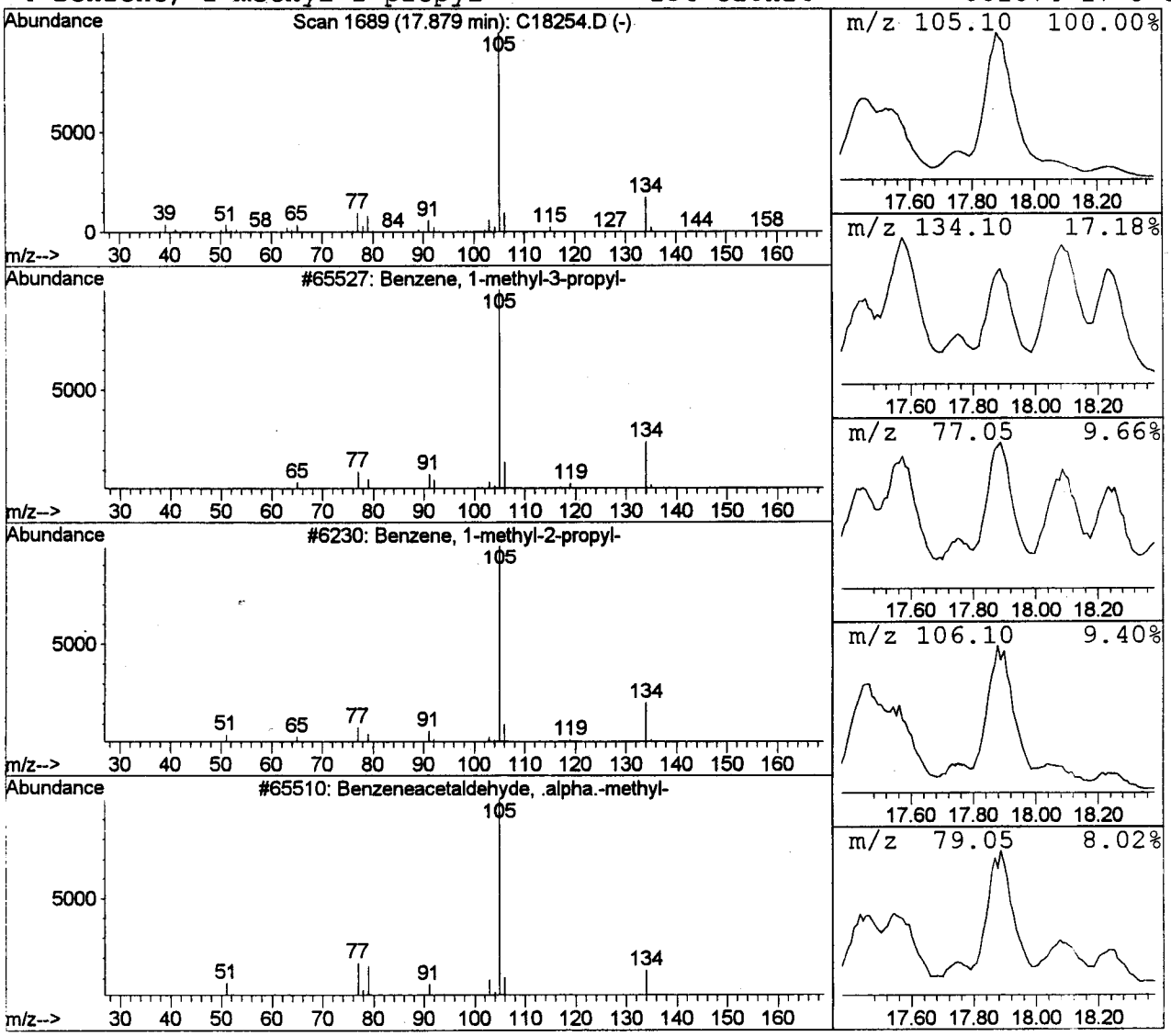
Quant Method : C:\HPCHEM\1\DATA\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

****

Peak Number 11 Benzene, 1-methyl-3-propyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.88	11.89 ug\L	2439050	1,4-Dichlorobenzene-d4	16.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methyl-3-propyl-	134	C10H14	001074-43-7	91
2	Benzene, 1-methyl-2-propyl-	134	C10H14	001074-17-5	90
3	Benzeneacetaldehyde, .alpha.-methyl	134	C9H10O	000093-53-8	90
4	Benzene, 1-methyl-2-propyl-	134	C10H14	001074-17-5	87



Data File : C:\HPCHEM\1\DATA\122900\C18254.D Vial: 5
Acq On : 29 Dec 2000 17:50 Operator: TAG/VR
Sample : AC05540 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\DATA\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

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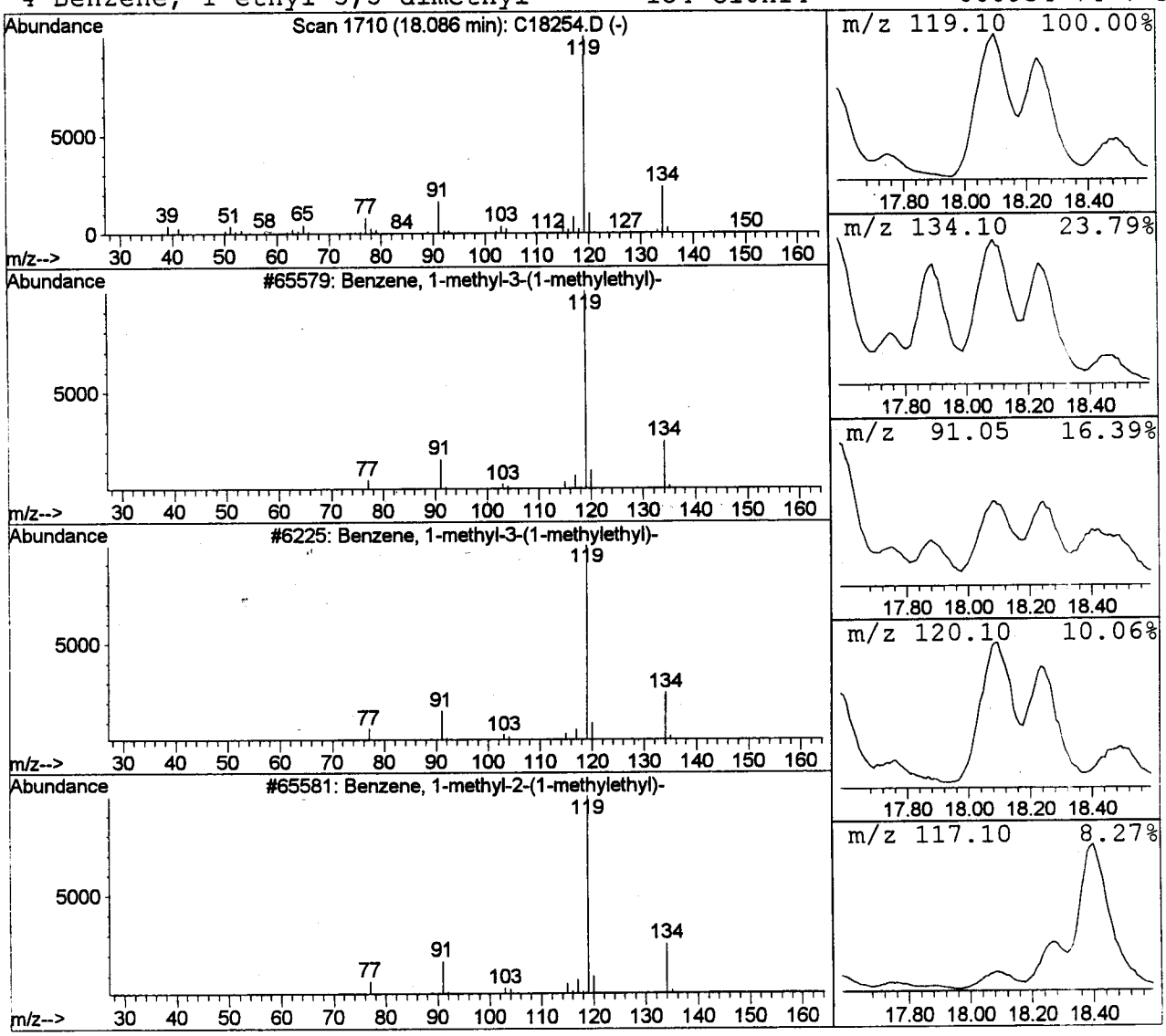
Peak Number 12 Benzene, 1-methyl-3-(1-methyle Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.09	15.34 ug\L	3146630	1,4-Dichlorobenzene-d4	16.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methyl-3-(1-methylethyl)	134	C10H14	000535-77-3	94
2	Benzene, 1-methyl-3-(1-methylethyl)	134	C10H14	000535-77-3	94
3	Benzene, 1-methyl-2-(1-methylethyl)	134	C10H14	000527-84-4	91
4	Benzene, 1-ethyl-3,5-dimethyl-	134	C10H14	000934-74-7	91



Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\122900\C18254.D Vial: 5
Acq On : 29 Dec 2000 17:50 Operator: TAG/VR
Sample : AC05540 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\DATA\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

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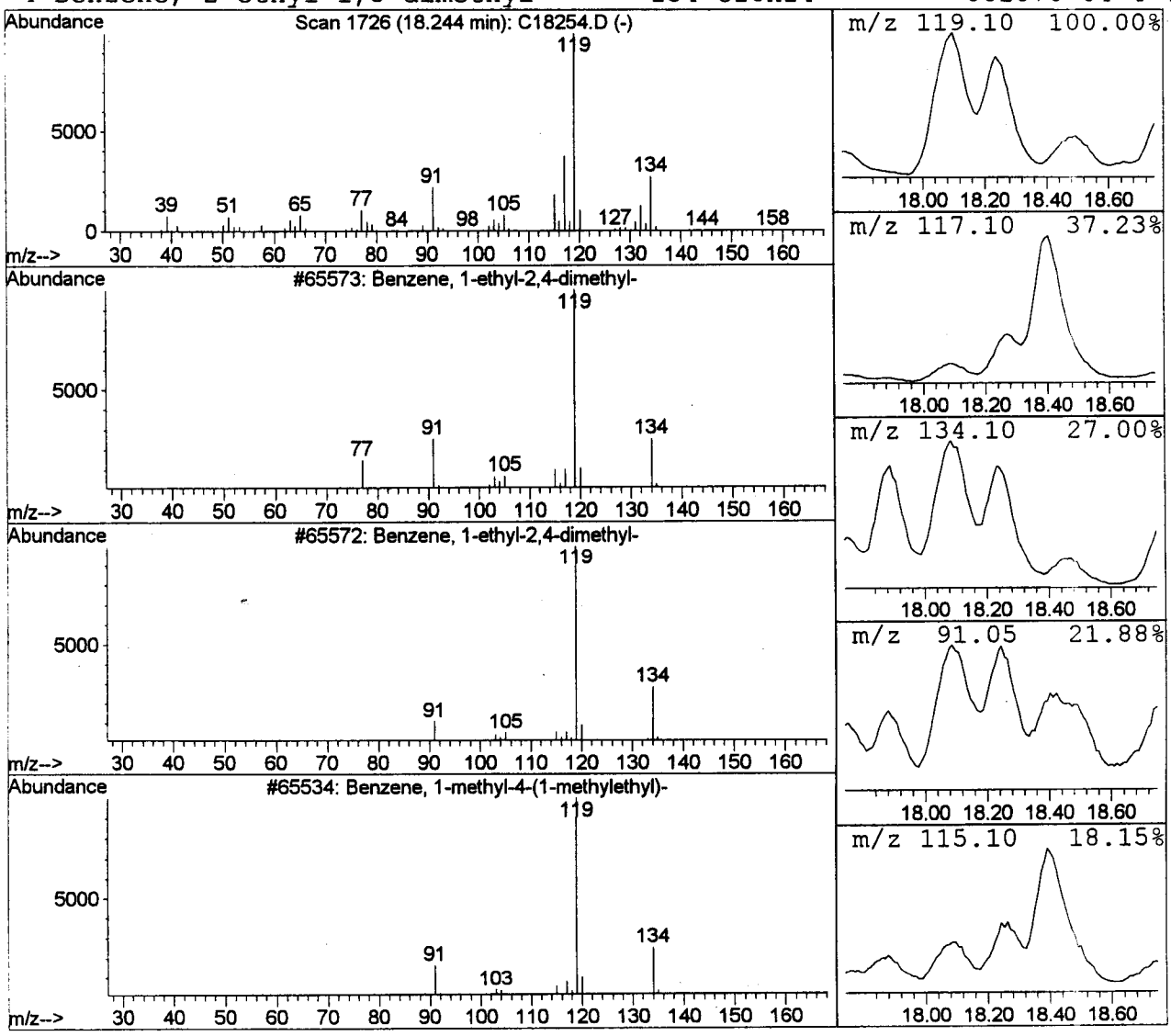
Peak Number 13 Benzene, 1-ethyl-2,4-dimethyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.24	12.85 ug\L	2635730	1,4-Dichlorobenzene-d4	16.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-2,4-dimethyl-	134	C10H14	000874-41-9	81
2	Benzene, 1-ethyl-2,4-dimethyl-	134	C10H14	000874-41-9	81
3	Benzene, 1-methyl-4-(1-methylethyl)	134	C10H14	000099-87-6	76
4	Benzene, 2-ethyl-1,3-dimethyl-	134	C10H14	002870-04-4	76



Data File : C:\HPCHEM\1\DATA\122900\C18254.D
Acq On : 29 Dec 2000 17:50
Sample : AC05540 25ml DF=1
Misc : 26563/C12140025
MS Integration Params: LSCINT.P

Vial: 5
Operator: TAG/VR
Inst : VOA-C
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\DATA\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

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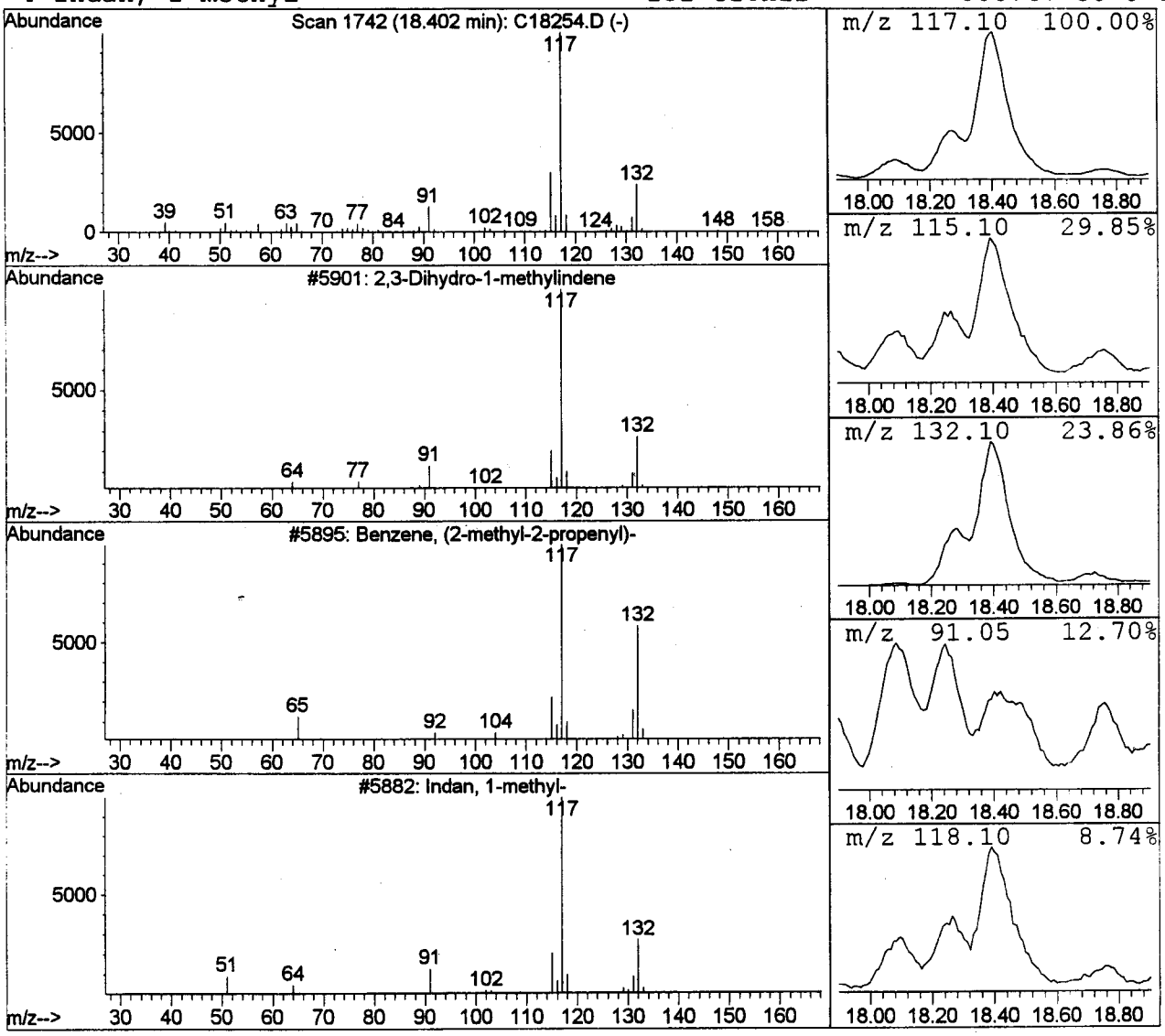
Peak Number 14 2,3-Dihydro-1-methylindene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.40	13.97 ug\L	2864630	1,4-Dichlorobenzene-d4	16.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,3-Dihydro-1-methylindene	132	C10H12	027133-93-3	90
2	Benzene, (2-methyl-2-propenyl)-	132	C10H12	003290-53-7	87
3	Indan, 1-methyl-	132	C10H12	000767-58-8	87
4	Indan, 1-methyl-	132	C10H12	000767-58-8	83



Data File : C:\HPCHEM\1\DATA\122900\C18254.D Vial: 5
Acq On : 29 Dec 2000 17:50 Operator: TAG/VR
Sample : AC05540 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\DATA\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

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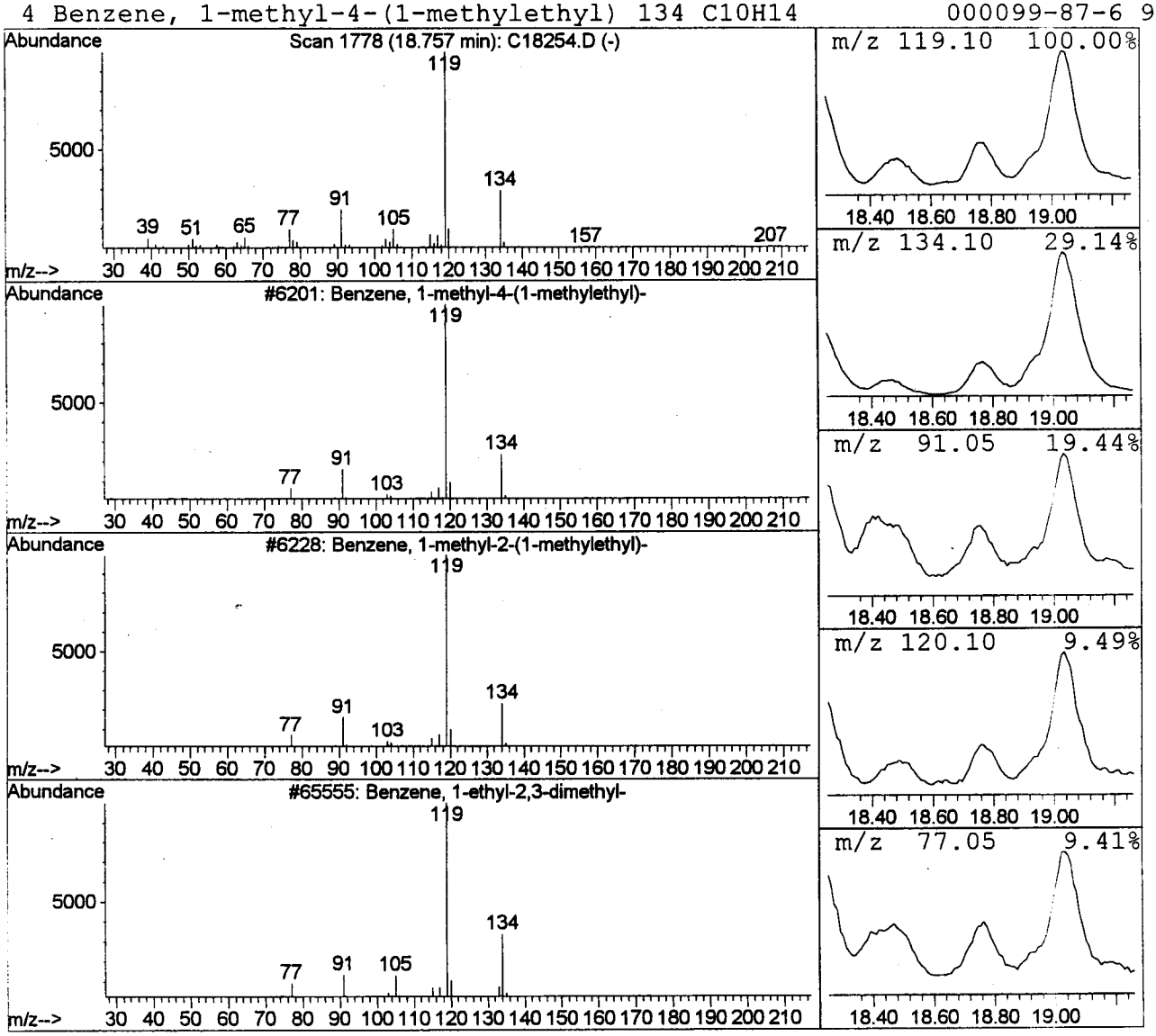
Peak Number 15 Benzene, 1-methyl-4-(1-methyle Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.76	4.10 ug\L	841286	1,4-Dichlorobenzene-d4	16.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methyl-4-(1-methylethyl)	134	C10H14	000099-87-6	94
2	Benzene, 1-methyl-2-(1-methylethyl)	134	C10H14	000527-84-4	93
3	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	91
4	Benzene, 1-methyl-4-(1-methylethyl)	134	C10H14	000099-87-6	91



Data File : C:\HPCHEM\1\DATA\122900\C18254.D Vial: 5
Acq On : 29 Dec 2000 17:50 Operator: TAG/VR
Sample : AC05540 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\DATA\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

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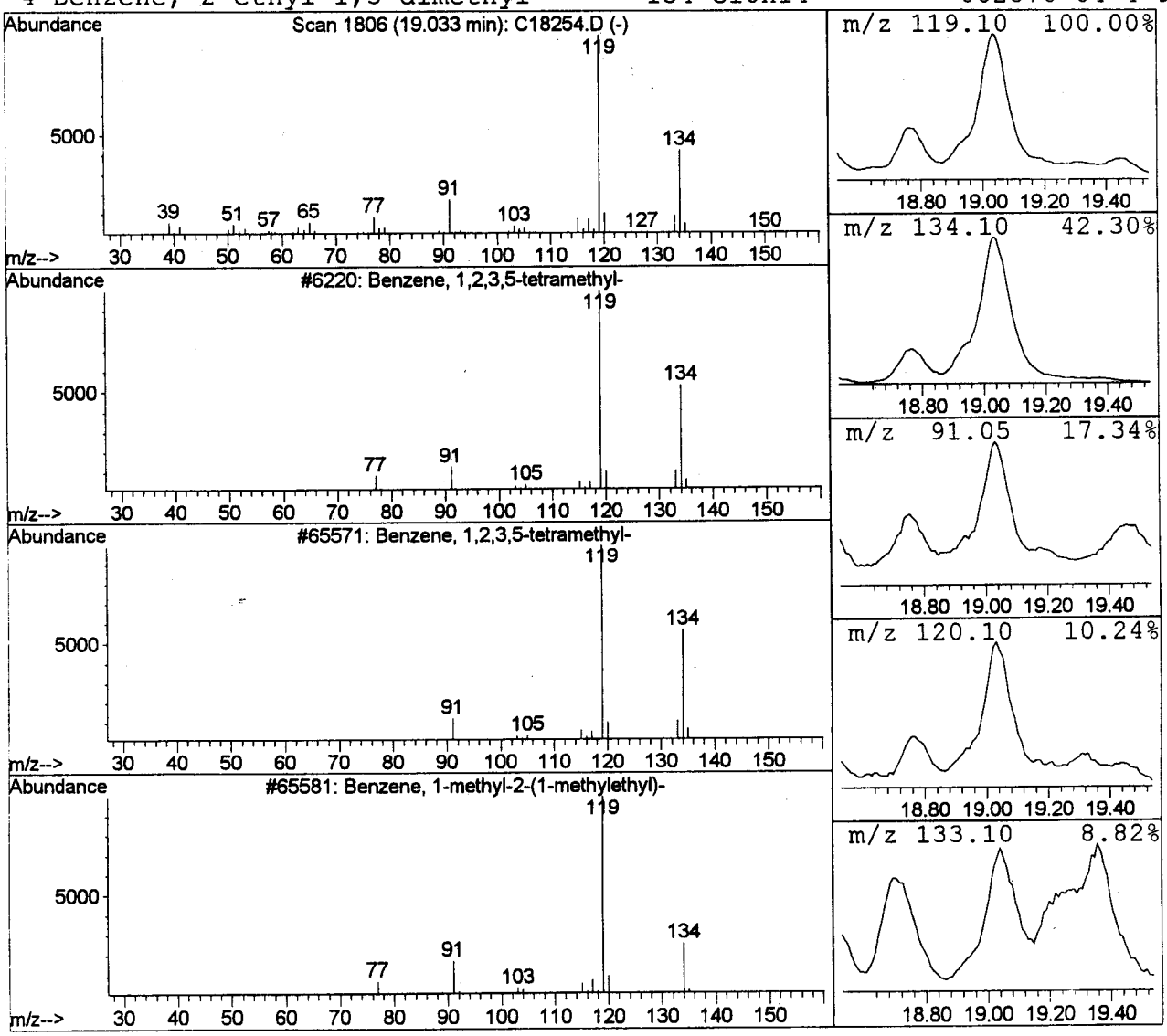
Peak Number 16 Benzene, 1,2,3,5-tetramethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.03	13.34 ug\L	2736630	1,4-Dichlorobenzene-d4	16.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	94
2	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	94
3	Benzene, 1-methyl-2-(1-methylethyl)	134	C10H14	000527-84-4	94
4	Benzene, 2-ethyl-1,3-dimethyl-	134	C10H14	002870-04-4	91



Data File : C:\HPCHEM\1\DATA\122900\C18254.D Vial: 5
Acq On : 29 Dec 2000 17:50 Operator: TAG/VR
Sample : AC05540 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\DATA\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

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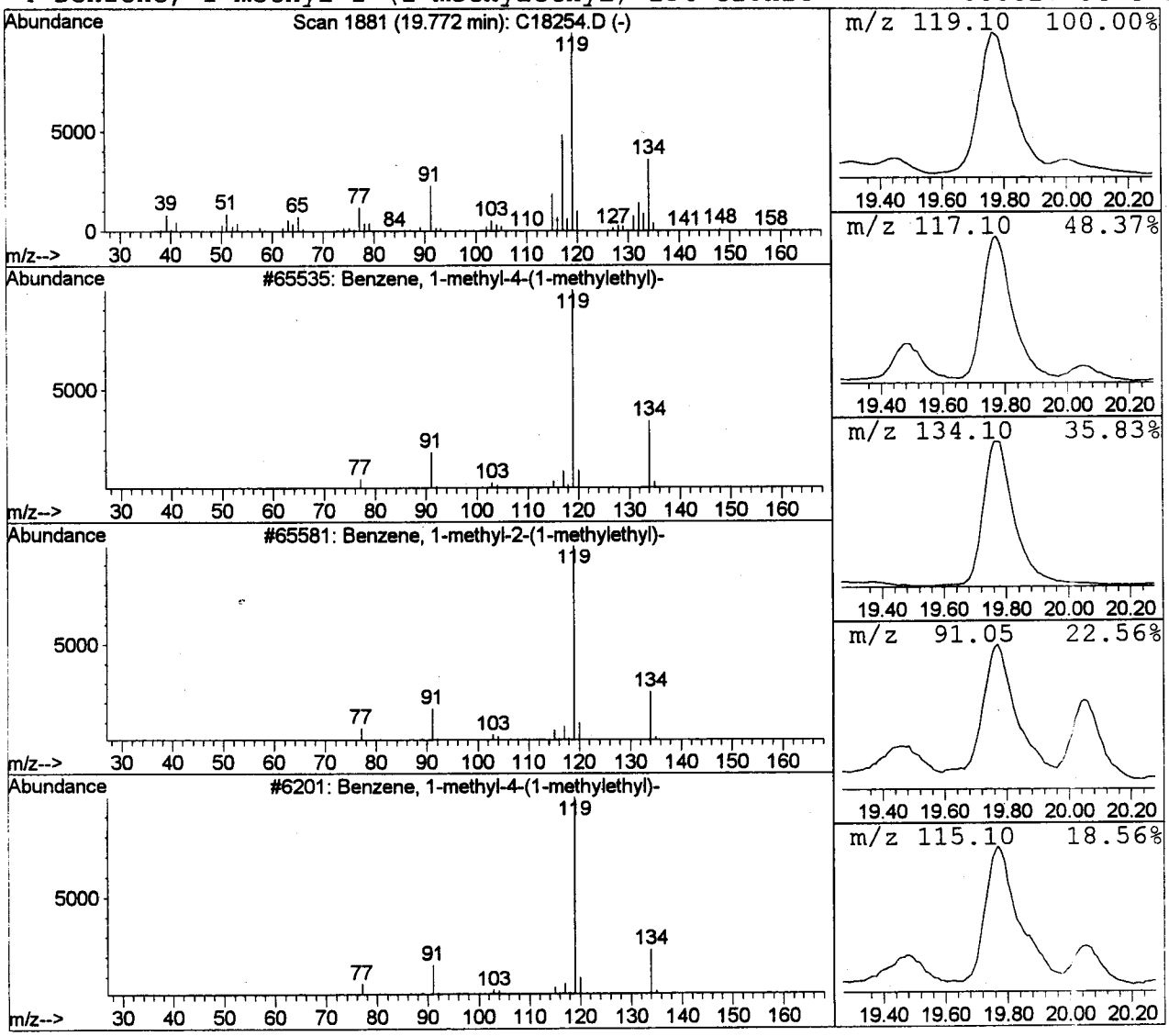
Peak Number 17 Benzene, 1-methyl-4-(1-methyle Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.77	31.58 ug\L	6477490	1,4-Dichlorobenzene-d4	16.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methyl-4-(1-methylethyl)	134	C10H14	000099-87-6	70
2	Benzene, 1-methyl-2-(1-methylethyl)	134	C10H14	000527-84-4	64
3	Benzene, 1-methyl-4-(1-methylethyl)	134	C10H14	000099-87-6	64
4	Benzene, 1-methyl-2-(1-methylethyl)	134	C10H14	000527-84-4	64



Data File : C:\HPCHEM\1\DATA\122900\C18254.D
Acq On : 29 Dec 2000 17:50
Sample : AC05540 25ml DF=1
Misc : 26563/C12140025
MS Integration Params: LSCINT.P

Vial: 5
Operator: TAG/VR
Inst : VOA-C
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\DATA\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

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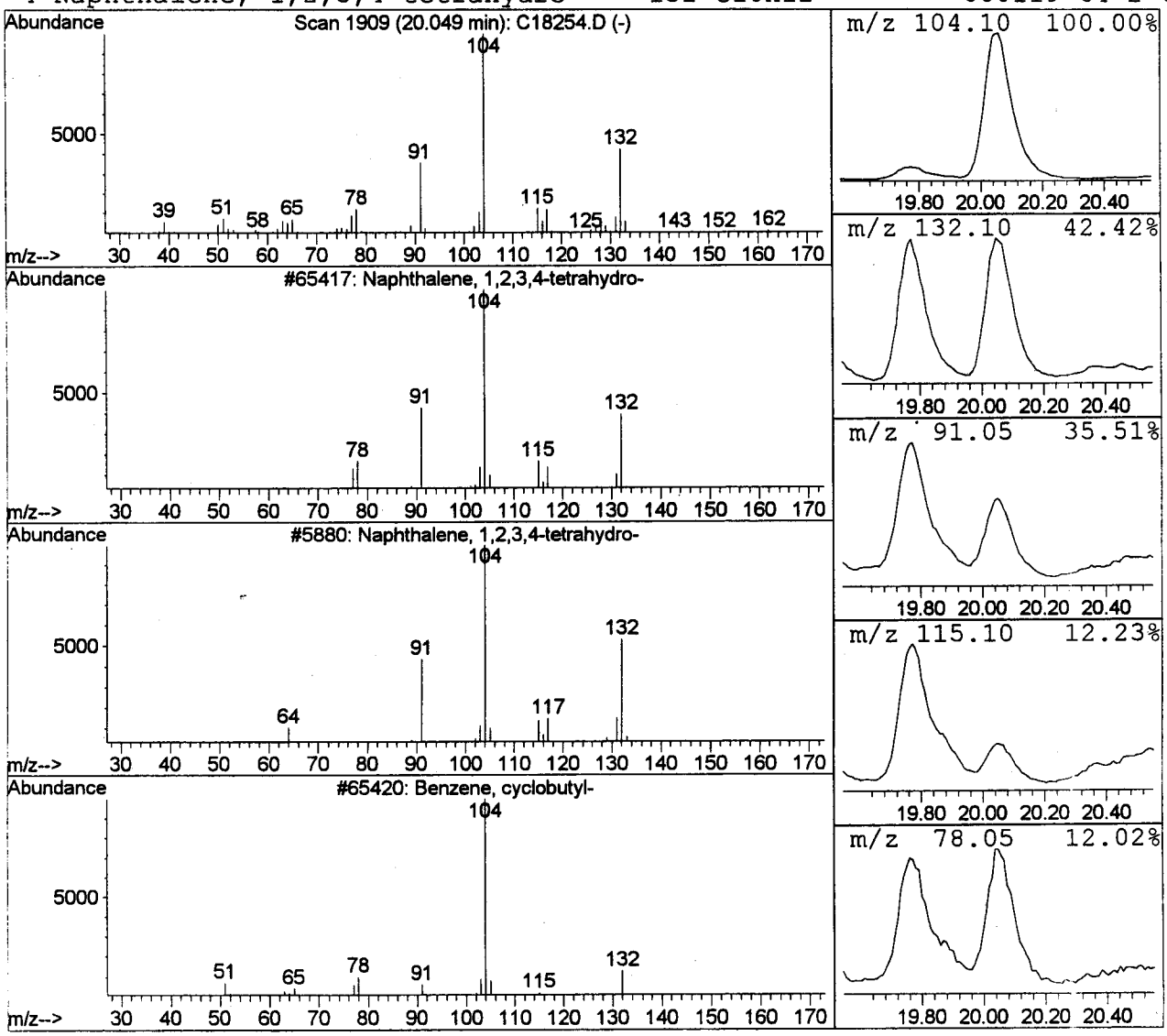
Peak Number 18 Naphthalene, 1,2,3,4-tetrahydr Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.05	9.74 ug\L	1998540	1,4-Dichlorobenzene-d4	16.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,2,3,4-tetrahydro-	132	C10H12	000119-64-2	95
2	Naphthalene, 1,2,3,4-tetrahydro-	132	C10H12	000119-64-2	83
3	Benzene, cyclobutyl-	132	C10H12	004392-30-7	64
4	Naphthalene, 1,2,3,4-tetrahydro-	132	C10H12	000119-64-2	64



Data File : C:\HPCHEM\1\DATA\122900\C18254.D Vial: 5
Acq On : 29 Dec 2000 17:50 Operator: TAG/VR
Sample : AC05540 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\DATA\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

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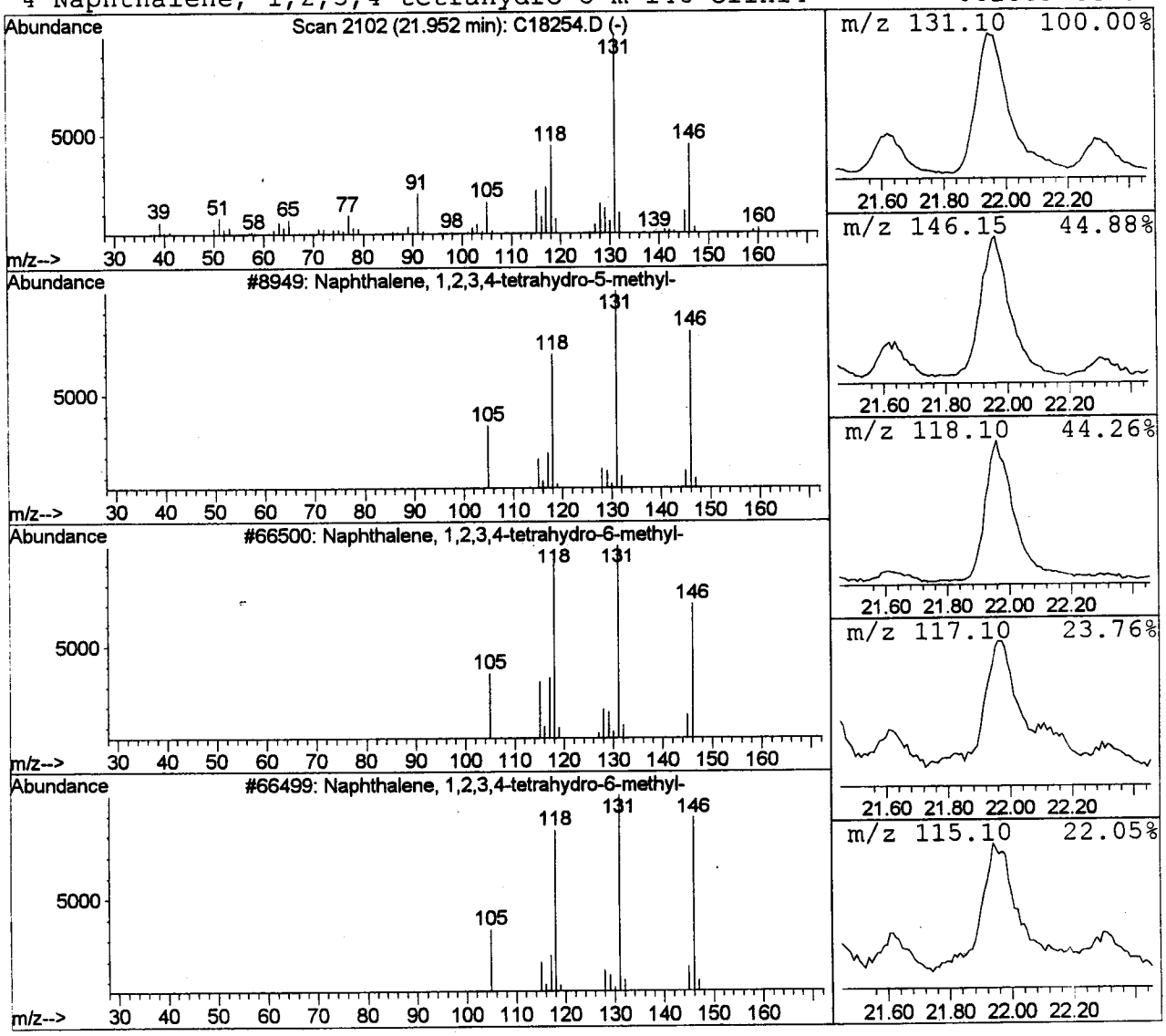
Peak Number 19 Naphthalene, 1,2,3,4-tetrahydr Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.95	4.33 ug\L	888480	1,4-Dichlorobenzene-d4	16.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,2,3,4-tetrahydro-5-m	146	C11H14	002809-64-5	76
2	Naphthalene, 1,2,3,4-tetrahydro-6-m	146	C11H14	001680-51-9	76
3	Naphthalene, 1,2,3,4-tetrahydro-6-m	146	C11H14	001680-51-9	70
4	Naphthalene, 1,2,3,4-tetrahydro-5-m	146	C11H14	002809-64-5	70



Data File : C:\HPCHEM\1\DATA\122900\C18254.D Vial: 5
Acq On : 29 Dec 2000 17:50 Operator: TAG/VR
Sample : AC05540 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\DATA\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

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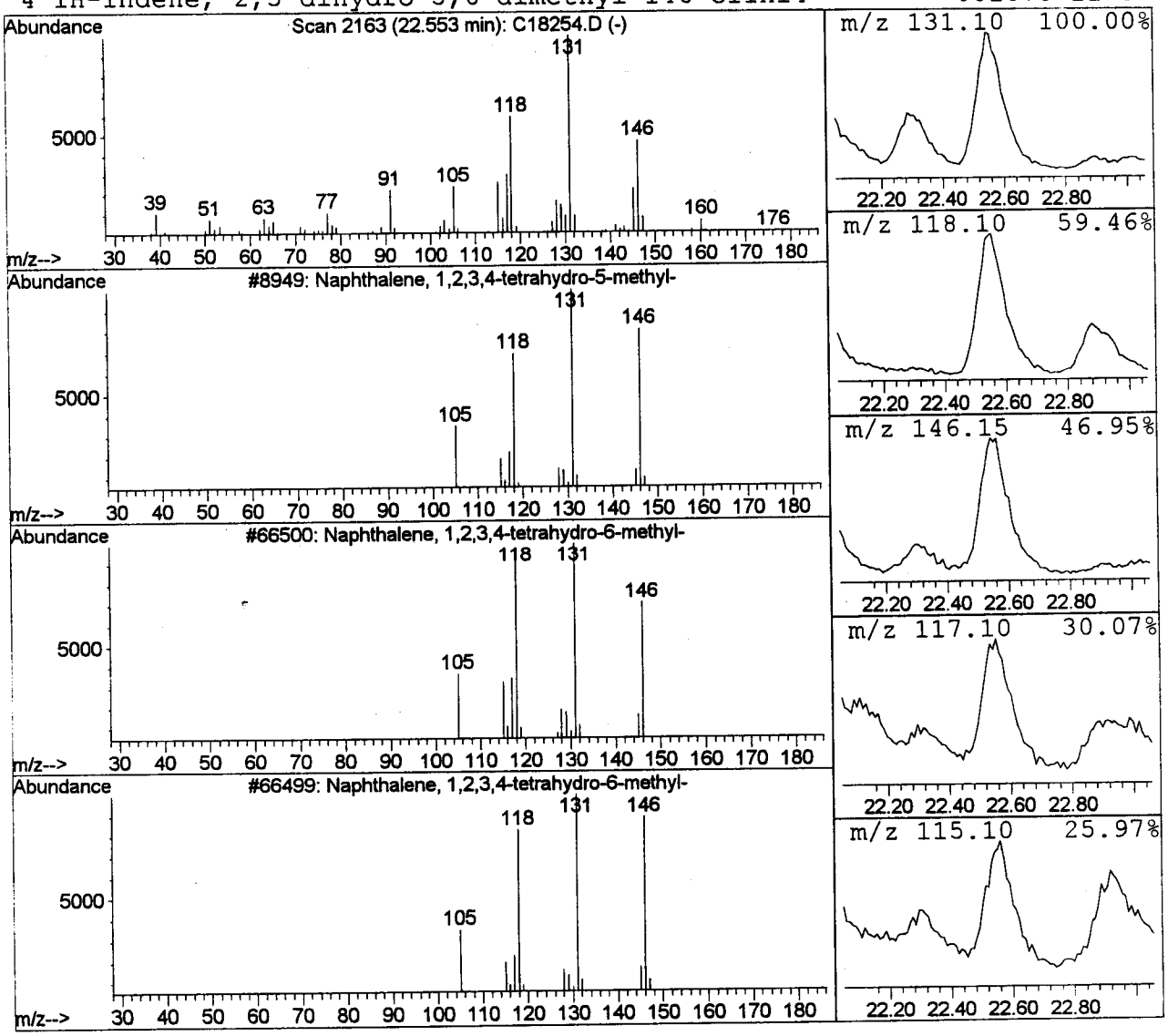
Peak Number 20 Naphthalene, 1,2,3,4-tetrahydr Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.55	3.35 ug\L	686771	1,4-Dichlorobenzene-d4	16.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,2,3,4-tetrahydro-5-m	146	C11H14	002809-64-5	91
2	Naphthalene, 1,2,3,4-tetrahydro-6-m	146	C11H14	001680-51-9	90
3	Naphthalene, 1,2,3,4-tetrahydro-6-m	146	C11H14	001680-51-9	81
4	1H-Indene, 2,3-dihydro-5,6-dimethyl	146	C11H14	001075-22-5	64



Tentatively Identified Compound (LSC) summary

Operator ID: TAG/VR Date Acquired: 29 Dec 2000 17:50
Data File: C:\HPCHEM\1\DATA\122900\C18254.D
Name: AC05540 25ml DF=1
Misc: 26563/C12140025
Method: C:\HPCHEM\1\DATA\122900\12290025.M (RTE Integrator)
Title: 8260 CALIBRATION FOR 25ML WATER
Library Searched: C:\DATABASE\NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Carbon dioxide	1.46	62.2	ug\L	8721260	ISTD01	6.45	1401220	10.0
Benzene, 1,2-difluor	7.72	7.8	ug\L	1099070	ISTD01	6.45	1401220	10.0
2,3,5-Trimethylfuran	11.56	2.9	ug\L	289450	ISTD02	12.77	995260	10.0
p-Xylene	13.23	70.2	ug\L	6986810	ISTD02	12.77	995260	10.0
Benzene, 1-ethyl-2-m	15.49	25.8	ug\L	5284210	ISTD03	16.89	2050980	10.0
Benzene, 1-ethyl-4-m	15.99	5.9	ug\L	1213890	ISTD03	16.89	2050980	10.0
Benzene, 1-ethyl-4-m	17.02	32.1	ug\L	6584130	ISTD03	16.89	2050980	10.0
Benzene, 1-methyl-2-	17.43	15.9	ug\L	3254450	ISTD03	16.89	2050980	10.0
Benzene, 2-ethyl-1,4	17.57	13.7	ug\L	2799770	ISTD03	16.89	2050980	10.0
Benzene, 1,2-diethyl	17.75	2.8	ug\L	582373	ISTD03	16.89	2050980	10.0
Benzene, 1-methyl-3-	17.88	11.9	ug\L	2439050	ISTD03	16.89	2050980	10.0
Benzene, 1-methyl-3-	18.09	15.3	ug\L	3146630	ISTD03	16.89	2050980	10.0
Benzene, 1-ethyl-2,4	18.24	12.9	ug\L	2635730	ISTD03	16.89	2050980	10.0
2,3-Dihydro-1-methyl	18.40	14.0	ug\L	2864630	ISTD03	16.89	2050980	10.0
Benzene, 1-methyl-4-	18.76	4.1	ug\L	841286	ISTD03	16.89	2050980	10.0
Benzene, 1,2,3,5-tet	19.03	13.3	ug\L	2736630	ISTD03	16.89	2050980	10.0
Benzene, 1-methyl-4-	19.77	31.6	ug\L	6477490	ISTD03	16.89	2050980	10.0
Naphthalene, 1,2,3,4	20.05	9.7	ug\L	1998540	ISTD03	16.89	2050980	10.0
Naphthalene, 1,2,3,4	21.95	4.3	ug\L	888480	ISTD03	16.89	2050980	10.0
Naphthalene, 1,2,3,4	22.55	3.3	ug\L	686771	ISTD03	16.89	2050980	10.0

C18254.D 12290025.M Thu Jan 04 14:27:13 2001 RPT1

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\122900\C18266.D Vial: 2
Acq On : 30 Dec 2000 00:22 Operator: TAG/VR
Sample : AC05540 5ml DF=5 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 30 0:49 2000 Quant Results File: 12290025.RES

Quant Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 10:24:33 2000
Response via : Initial Calibration
DataAcq Meth : 12290025

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.46	168	407974	10.00	ug\L	-0.01
45) Chlorobenzene-d5	12.77	117	280200	10.00	ug\L	0.00
61) 1,4-Dichlorobenzene-d4	16.88	152	142543	10.00	ug\L	0.00
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	6.96	65	68513	8.46	ug\L	0.02
Spiked Amount 10.000	Range 80 - 120		Recovery = 84.60%			
46) Toluene-d8	10.27	98	389595	9.39	ug\L	0.00
Spiked Amount 10.000	Range 87 - 104		Recovery = 93.90%			
65) Bromofluorobenzene	14.87	95	179118	9.07	ug\L	0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 90.70%			

Target Compounds						Qvalue
16) Methylene Chloride	3.52	86	1334	-0.98	ug\L #	1
34) Isobutyl alcohol	7.14	43	374	-20.83	ug\L #	1
41) 2-Nitropropane	9.19	43	219	2.03	ug\L #	100
49) Ethylmethacrylate	10.74	69	61	1.07	ug\L #	63
58) Ethylbenzene	13.03	91	216151	3.98	ug\L	99
59) total-Xylene	14.58	106	17297m	2.16	ug\L	
63) Isopropylbenzene	14.58	105	111239	1.61	ug\L	99
64) 1,4-dichloro-2-Butene	15.49	75	3084	0.70	ug\L #	100
68) 1,2,3-Trichloropropane	15.49	75	3084	0.70	ug\L #	100
69) n-Propylbenzene	15.30	91	132807	1.79	ug\L	96
70) 2-Chlorotoluene	15.49	91	22789	0.56	ug\L #	31
71) 4-Chlorotoluene	15.64	91	27189	0.50	ug\L #	47
72) 1,3,5-Trimethylbenzene	15.63	105	247221	4.66	ug\L	88
74) tert-Butylbenzene	16.28	119	99075	1.54	ug\L #	56
75) 1,2,4-Trimethylbenzene	16.28	105	866547	17.41	ug\L #	85 87
76) sec-Butylbenzene	16.57	105	96159	1.21	ug\L	93
78) Isopropyltoluene	16.83	119	122809	1.97	ug\L #	81
81) n-Butylbenzene	17.57	91	68079	1.12	ug\L #	1
82) 1,2-Dibromo-3-chloropropan	19.00	75	849	1.84	ug\L #	16
85) Naphthalene	20.87	128	59254	6.71	ug\L	100

VR
01/02/01

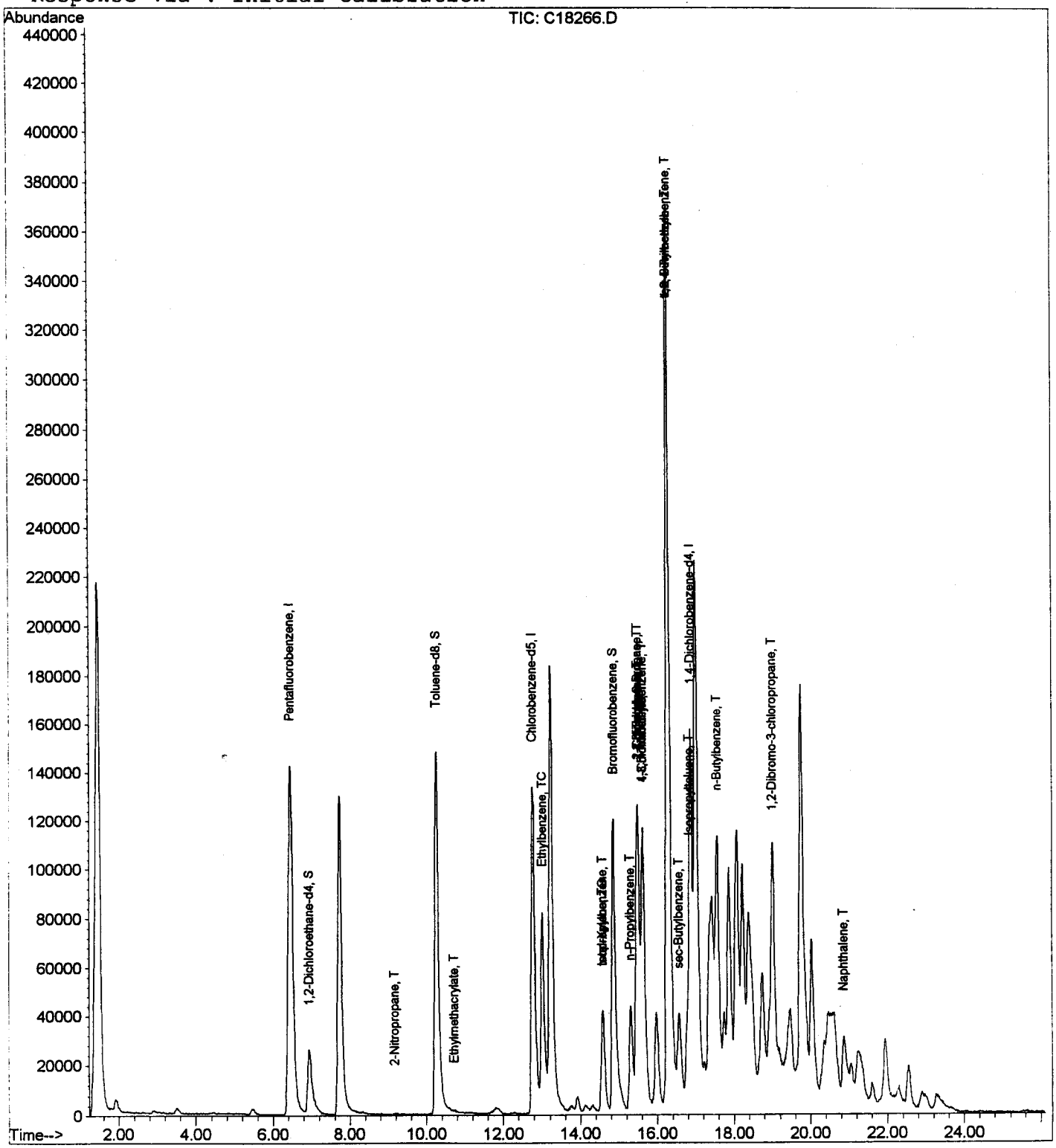
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\122900\C18266.D
Acq On : 30 Dec 2000 00:22
Sample : AC05540 5ml DF=5
Misc : 26563/C12140025
MS Integration Params: rteint.p
Quant Time: Dec 30 0:49 2000

Vial: 2
Operator: TAG/VR
Inst : VOA-C
Multiplr: 1.00
Quant Results File: 12290025.RES

Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 08:48:11 2000
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\010201\01020116.D Vial: 16
Acq On : 2 Jan 2001 23:32 Operator: MT
Sample : AC05541 Inst : DRO-B
Misc : 26563 1000mL Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 3 11:10 2001 Quant Results File: PRO1208.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.12	1430991	30.992 ug/mlm
Spiked Amount 50.000		Recovery =	61.98% x MT
3) SC C(39)	34.40	720095	16.392 ug/mlm
Spiked Amount 300.000		Recovery =	5.46% x MT
Target Compounds			
1) HM Florida PRO	3.70	23717632	417.010 ug/ml /1000 =

0.425 B ppm

MT

(f)=RT Delta > 1/2 Window (m)=manual int.

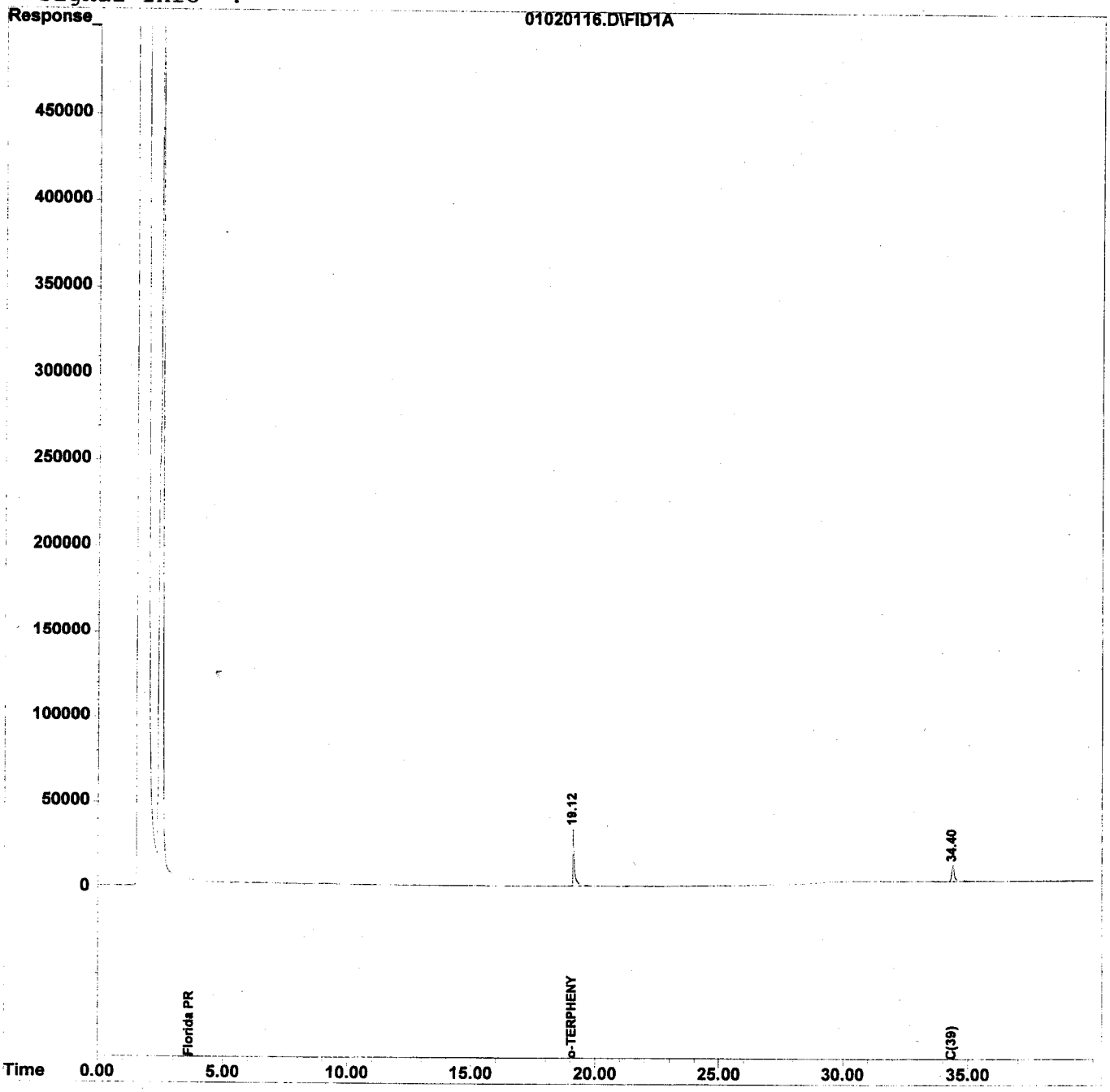
Quantitation Report

Data File : C:\HPCHEM\2\DATA\010201\01020116.D
Acq On : 2 Jan 2001 23:32
Sample : AC05541
Misc : 26563 1000mL
IntFile : events.e
Quant Time: Jan 3 11:10 2001 Quant Results File: PRO1208.RES

Vial: 16
Operator: MT
Inst : DRO-B
Multiplr: 1.00

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\122900\C18259.D Vial: 10
Acq On : 29 Dec 2000 20:22 Operator: TAG/VR
Sample : AC05541 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 29 20:48 2000 Quant Results File: 12290025.RES

Quant Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 10:24:33 2000
Response via : Initial Calibration
DataAcq Meth : 12290025

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	6.48	168	451724	10.00 ug\L	0.00
45) Chlorobenzene-d5	12.79	117	309839	10.00 ug\L	0.01
61) 1,4-Dichlorobenzene-d4	16.91	152	149570	10.00 ug\L	0.02
System Monitoring Compounds					
32) 1,2-Dichloroethane-d4	6.96	65	79630	8.88 ug\L	0.01
Spiked Amount 10.000	Range 80 - 120		Recovery = 88.80%		
46) Toluene-d8	10.28	98	427808	9.33 ug\L	0.00
Spiked Amount 10.000	Range 87 - 104		Recovery = 93.30%		
65) Bromofluorobenzene	14.87	95	195068	9.41 ug\L	0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 94.10%		

Target Compounds					Qvalue
16) Methylene Chloride	3.50	86	3198	~~0.73 ug\L~~ #	1
36) Trichloroethene	7.75	95	12100	~~0.57 ug\L~~ #	9
64) 1,4-dichloro-2-Butene	14.87	75	98442	~~21.24 ug\L~~ #	100
68) 1,2,3-Trichloropropane	14.87	75	98442	~~21.23 ug\L~~ #	100
85) Naphthalene	20.90	128	580	1.01 ug\L	100

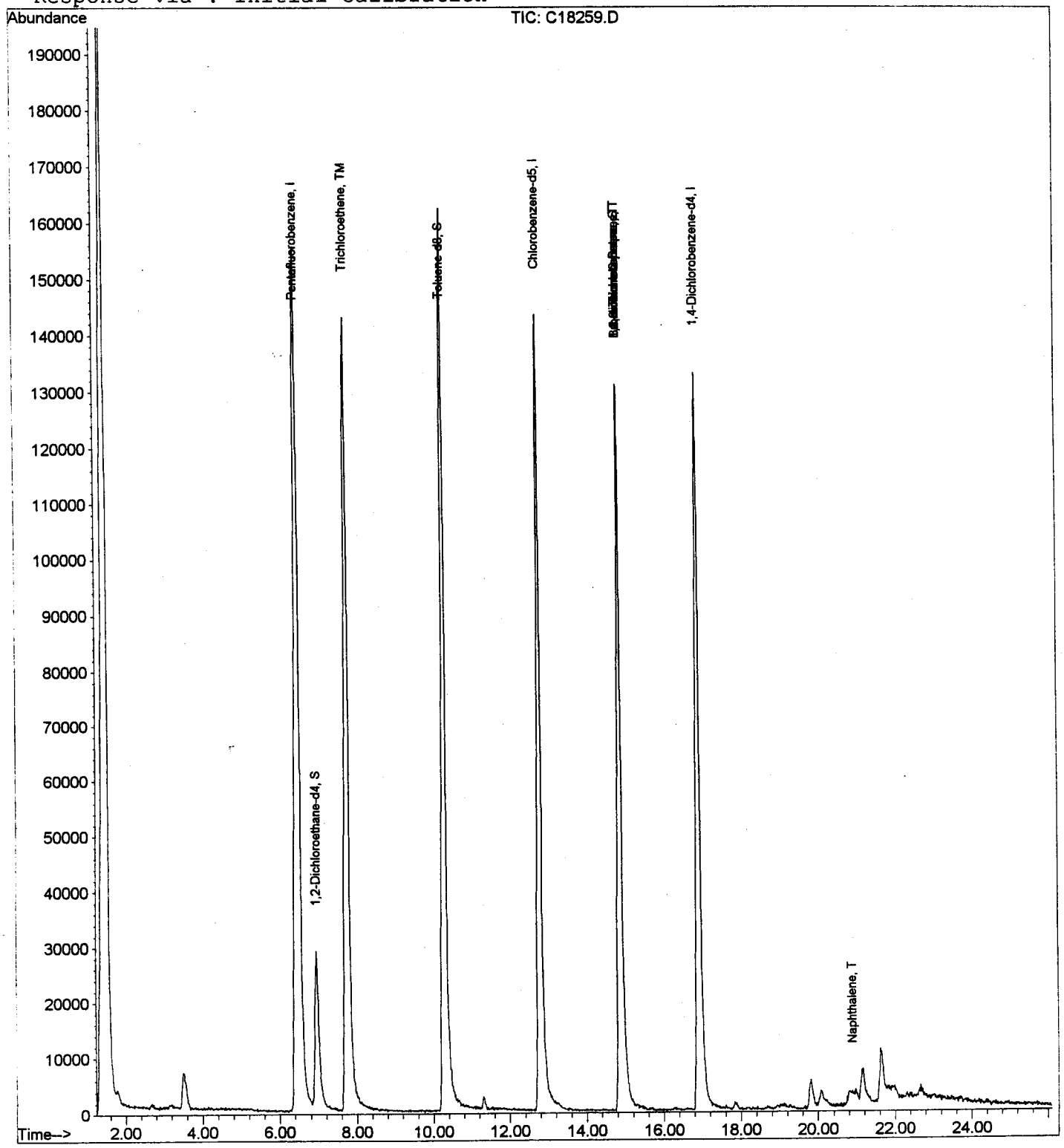
VR
01/02/01

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\122900\C18259.D Vial: 10
Acq On : 29 Dec 2000 20:22 Operator: TAG/VR
Sample : AC05541 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 29 20:48 2000 Quant Results File: 12290025.RES

Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 08:48:11 2000
Response via : Initial Calibration



1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

029-DUP-Q4

Lab Name: Accura Analytical Lab. Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: AC05541

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: C18259.D

Level: (low/med) LOW Date Received: 12/21/00

% Moisture: not dec. _____ Date Analyzed: 12/29/00

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\122900\C18259.D
Acq On : 29 Dec 2000 20:22
Sample : AC05541 25ml DF=1
Misc : 26563/C12140025
MS Integration Params: LSCINT.P

Vial: 10
Operator: TAG/VR
Inst : VOA-C
Multiplr: 1.00

Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Smoothing : OFF
Sampling : 1
Start Thrs: 0.2
Stop Thrs : 0

Filtering: 5
Min Area: 1 % of largest Peak
Max Peaks: 100
Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

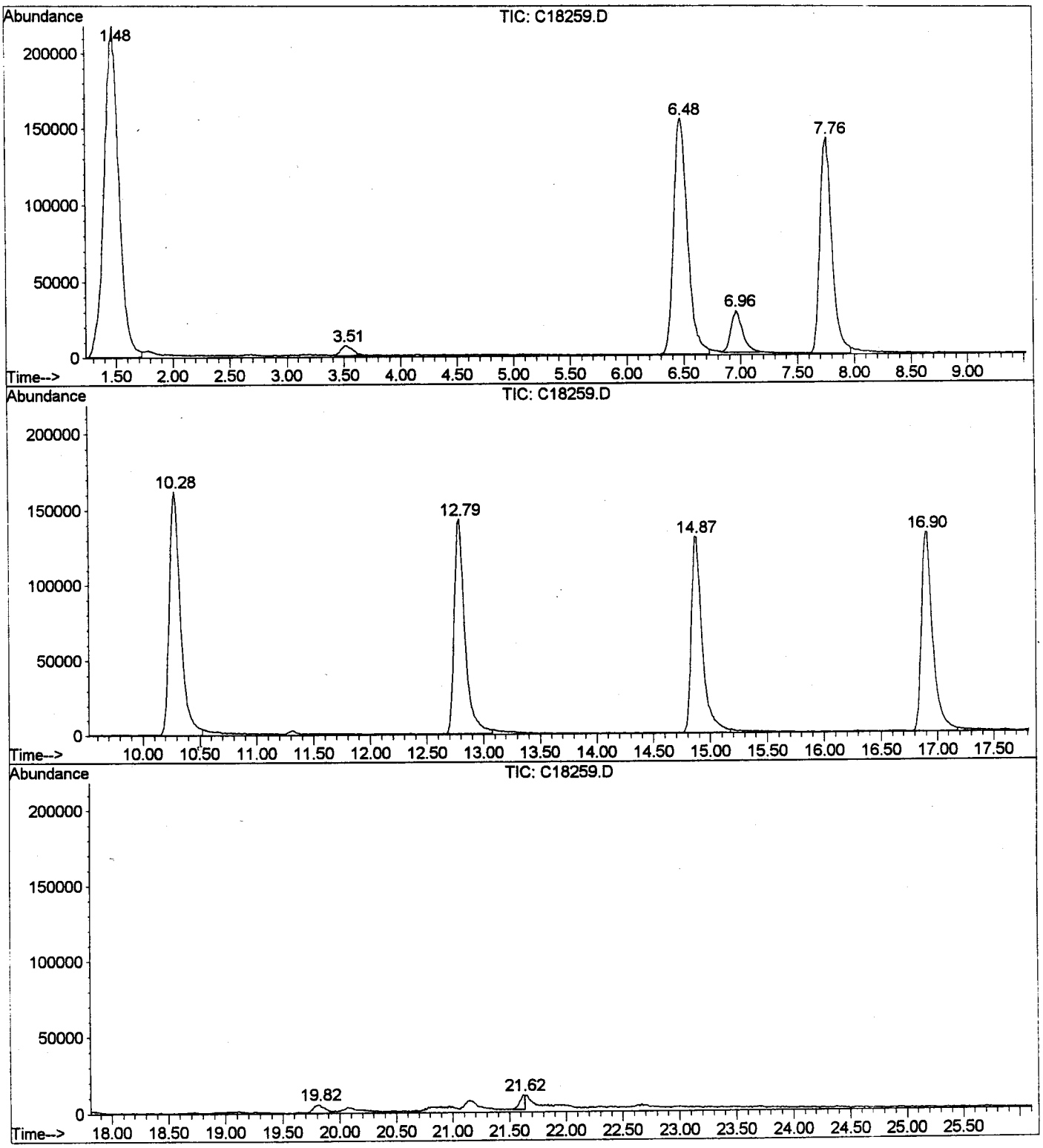
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	1.477	3	26	51	rBV	218107	1963983	100.00%	23.275%
2	3.509	223	232	250	rVB5	6565	48343	2.46%	0.573%
3	6.477	515	533	558	rBV	155220	1323220	67.37%	15.682%
4	6.960	569	582	602	rBV3	27652	193739	9.86%	2.296%
5	7.759	647	663	684	rBV2	142524	1037129	52.81%	12.291%
6	10.284	905	919	943	rBV	161997	1103233	56.17%	13.075%
7	12.789	1160	1173	1202	rBV	142838	927698	47.24%	10.994%
8	14.870	1373	1384	1415	rBV2	130520	868702	44.23%	10.295%
9	16.901	1577	1590	1618	rBV2	132484	909002	46.28%	10.773%
10	19.820	1875	1886	1899	rBV7	5228	34688	1.77%	0.411%
11	21.625	2059	2069	2070	rBV3	9539	28264	1.44%	0.335%

Sum of corrected areas: 8438001

C18259.D 12290025.M Thu Jan 04 10:26:27 2001 RPT1

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\122900\C18259.D
Operator : TAG/VR
Acquired : 29 Dec 2000 20:22 using AcqMethod 12290025
Instrument : VOA-C
Sample Name: AC05541 25ml DF=1
Misc Info : 26563/C12140025
Vial Number: 10
Quant File :12290025.RES (RTE Integrator)



C18259.D 12290025.M Thu Jan 04 10:26:28 2001 RPT1

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\122900\C18259.D
Acq On : 29 Dec 2000 20:22
Sample : AC05541 25ml DF=1
Misc : 26563/C12140025
MS Integration Params: LSCINT.P

Vial: 10
Operator: TAG/VR
Inst : VOA-C
Multiplr: 1.00

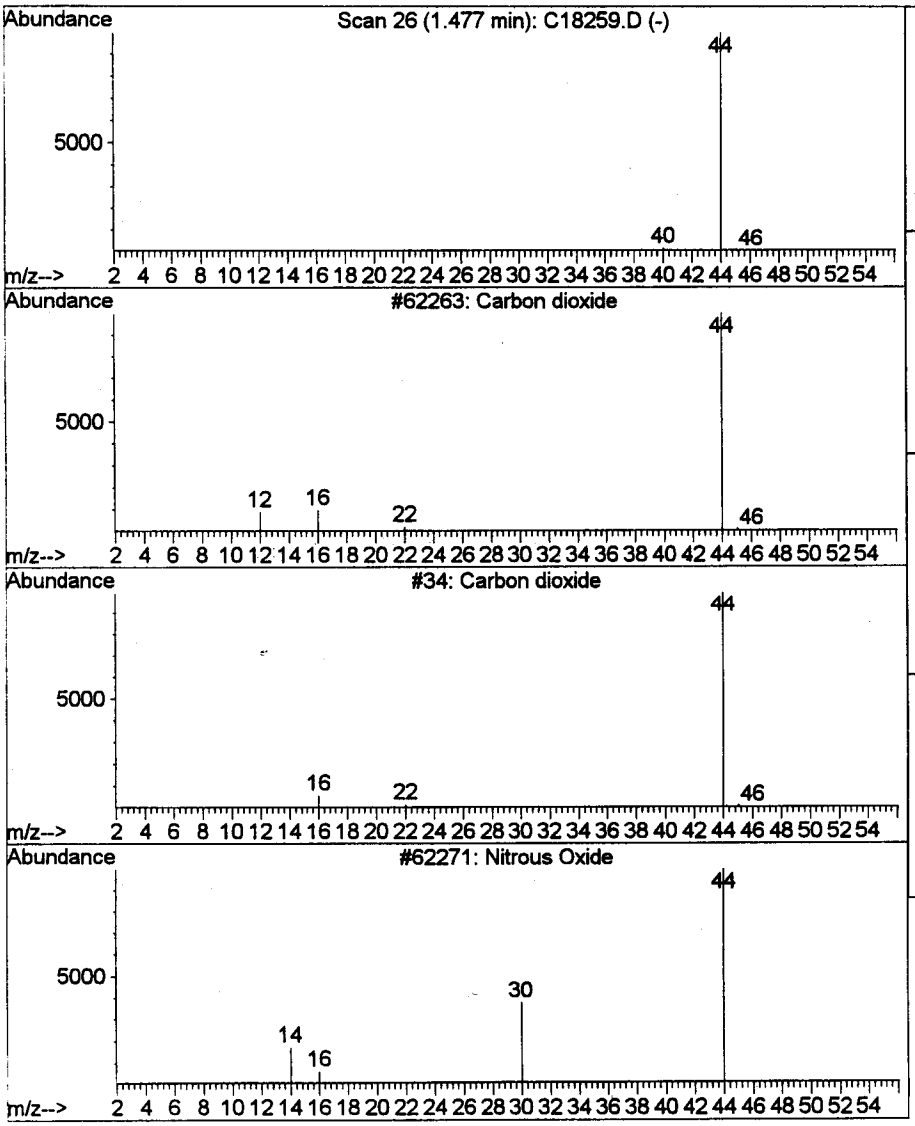
Quant Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

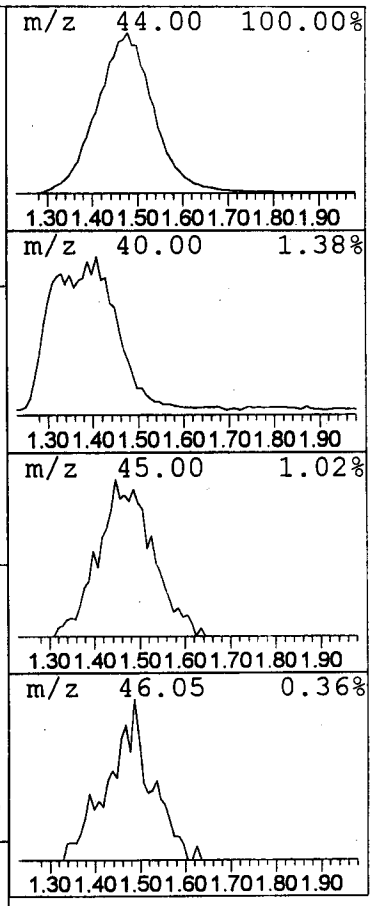
****

Peak Number 1 Carbon dioxide Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.48	14.84 ug\L	1963980	Pentafluorobenzene	6.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbon dioxide	44	CO2	000124-38-9	4
2	Carbon dioxide	44	CO2	000124-38-9	4
3	Nitrous Oxide	44	N2O	010024-97-2	3
4	Nitrous Oxide	44	N2O	010024-97-2	3





Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\122900\C18259.D Vial: 10
Acq On : 29 Dec 2000 20:22 Operator: TAG/VR
Sample : AC05541 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: LSCINT.P

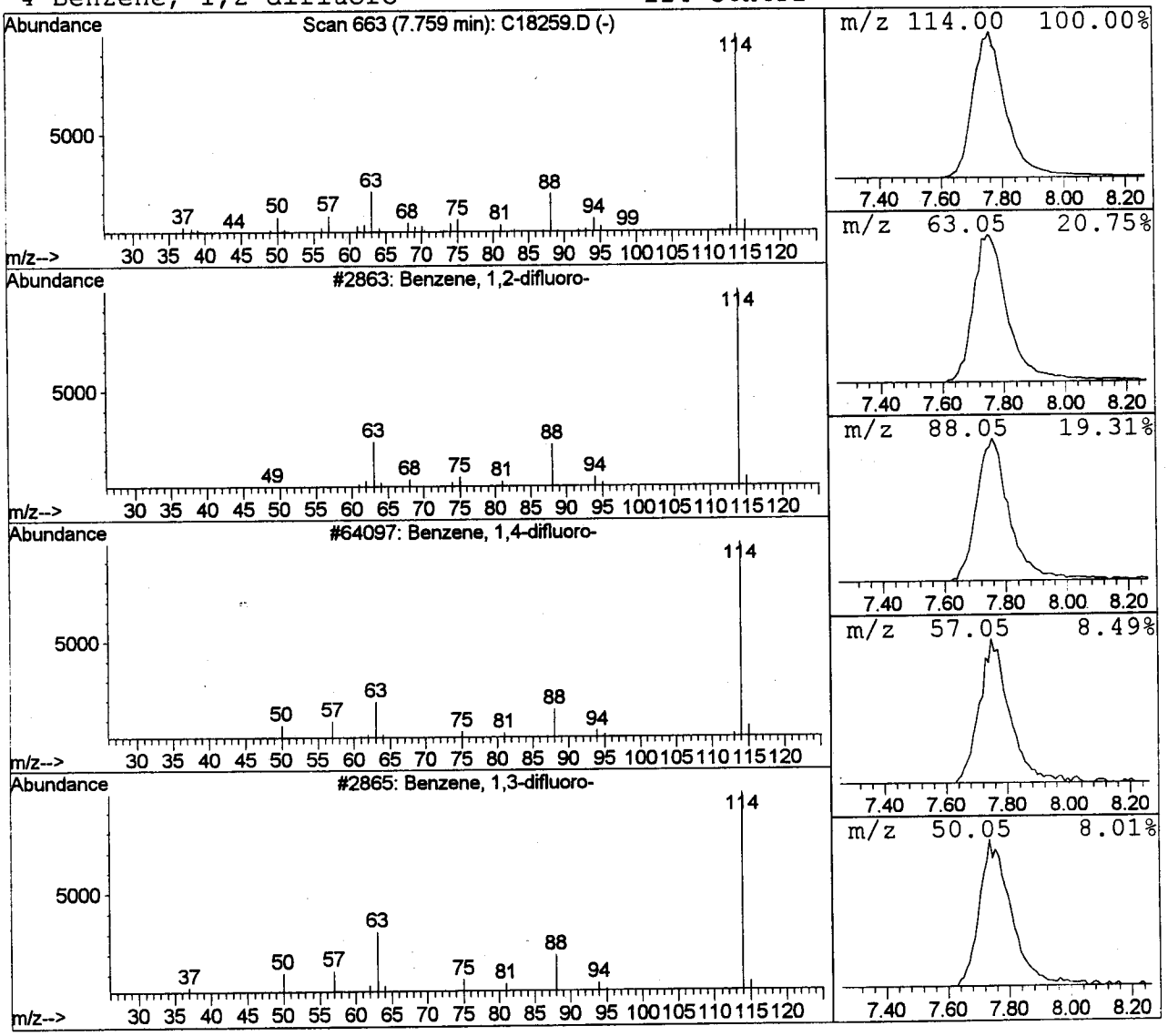
Quant Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

****

Peak Number 2 Benzene, 1,2-difluoro- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.76	7.84 ug\L	1037130	Pentafluorobenzene	6.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2-difluoro-	114	C6H4F2	000367-11-3	95
2	Benzene, 1,4-difluoro-	114	C6H4F2	000540-36-3	93
3	Benzene, 1,3-difluoro-	114	C6H4F2	000372-18-9	91
4	Benzene, 1,2-difluoro-	114	C6H4F2	000367-11-3	91



Tentatively Identified Compound (LSC) summary

Operator ID: TAG/VR Date Acquired: 29 Dec 2000 20:22
Data File: C:\HPCHEM\1\DATA\122900\C18259.D
Name: AC05541 25ml DF=1
Misc: 26563/C12140025
Method: c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title: 8260 CALIBRATION FOR 25ML WATER
Library Searched: C:\DATABASE\NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Carbon dioxide	1.48	14.8	ug\L	1963980	ISTD01	6.48	1323220	10.0
Benzene, 1,2-difluor	7.76	7.8	ug\L	1037130	ISTD01	6.48	1323220	10.0

C18259.D 12290025.M Thu Jan 04 10:26:30 2001 RPT1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\010201\01020117.D Vial: 17
Acq On : 3 Jan 2001 00:21 Operator: MT
Sample : AC05542 Inst : DRO-B
Misc : 26563 1000mL Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 3 11:10 2001 Quant Results File: PRO1208.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.12	2020279	43.755 ug/mlm
Spiked Amount 50.000		Recovery =	87.51% ✓ MT
3) SC C(39)	34.41	692104	15.754 ug/mlm
Spiked Amount 300.000		Recovery =	5.25% x MT
Target Compounds			
1) HM Florida PRO	3.70	21735849	382.166 ug/ml /1000 =

0.38JB ppm

MT

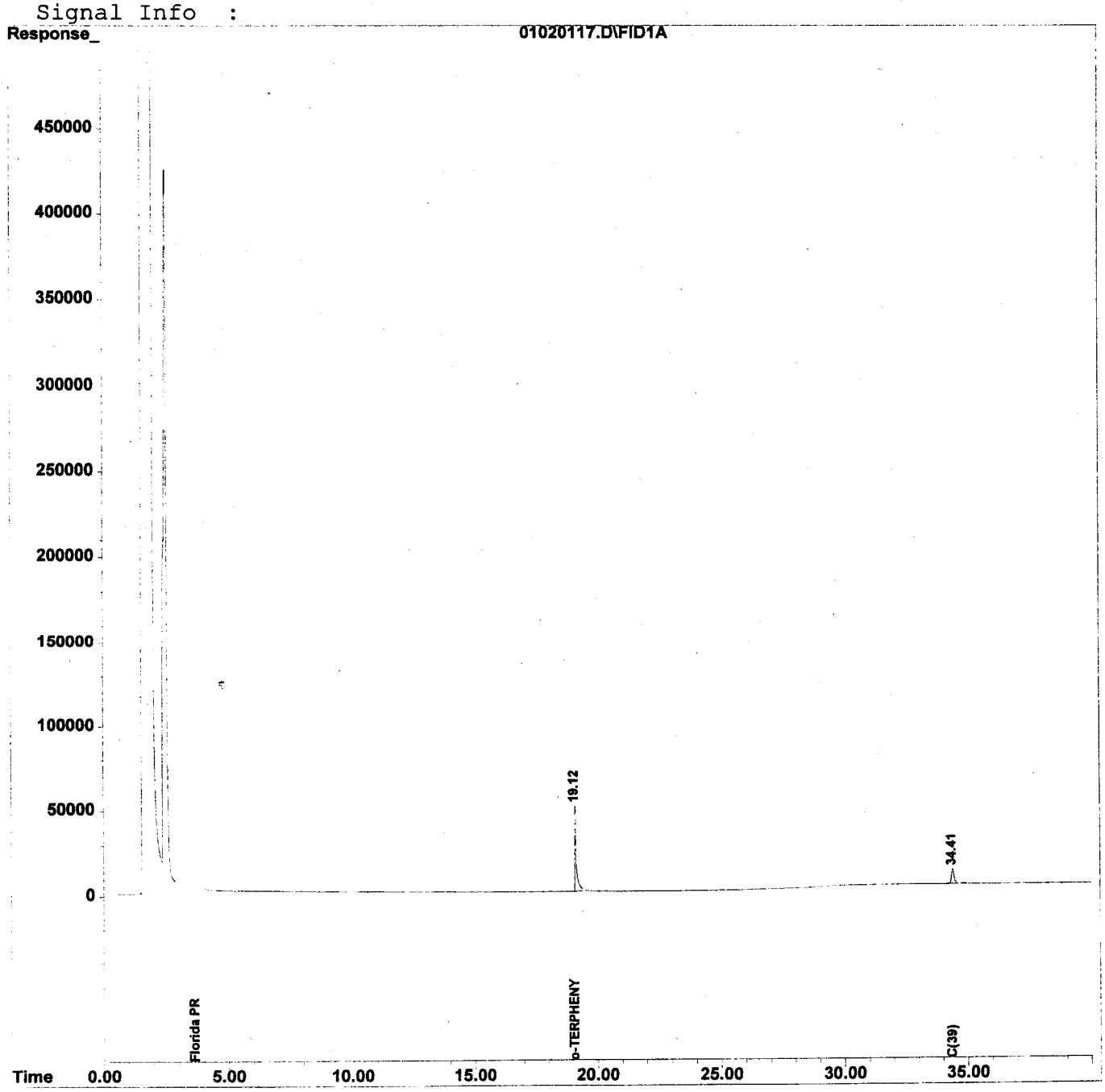
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\010201\01020117.D Vial: 17
Acq On : 3 Jan 2001 00:21 Operator: MT
Sample : AC05542 Inst : DRO-B
Misc : 26563 1000mL Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 3 11:10 2001 Quant Results File: PRO1208.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\122900\C18260.D Vial: 11
Acq On : 29 Dec 2000 20:52 Operator: TAG/VR
Sample : AC05542 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 29 21:18 2000 Quant Results File: 12290025.RES

Quant Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 10:24:33 2000
Response via : Initial Calibration
DataAcq Meth : 12290025

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	6.47	168	392304	10.00 ug\L	0.00
45) Chlorobenzene-d5	12.78	117	272521	10.00 ug\L	0.00
61) 1,4-Dichlorobenzene-d4	16.90	152	140405	10.00 ug\L	0.02
System Monitoring Compounds					
32) 1,2-Dichloroethane-d4	6.96	65	74358	9.55 ug\L	0.02
Spiked Amount 10.000	Range 80 - 120		Recovery	= 95.50%	
46) Toluene-d8	10.27	98	369342	9.15 ug\L	0.00
Spiked Amount 10.000	Range 87 - 104		Recovery	= 91.50%	
65) Bromofluorobenzene	14.87	95	181799	9.34 ug\L	0.00
Spiked Amount 10.000	Range 84 - 110		Recovery	= 93.40%	
Target Compounds					Qvalue
8) Acrolein	4.07	56	120	~~0.54 ug\L #~~	1
11) Acetone	3.04	58	95	~~2.61 ug\L #~~	1
27) Chloroform	6.09	83	26592	1.07 ug\L	99
64) 1,4-dichloro-2-Butene	14.87	75	91082	~~20.94 ug\L #~~	100
68) 1,2,3-Trichloropropane	14.87	75	91082	~~20.93 ug\L #~~	100
85) Naphthalene	20.89	128	682	1.02 ug\L	100

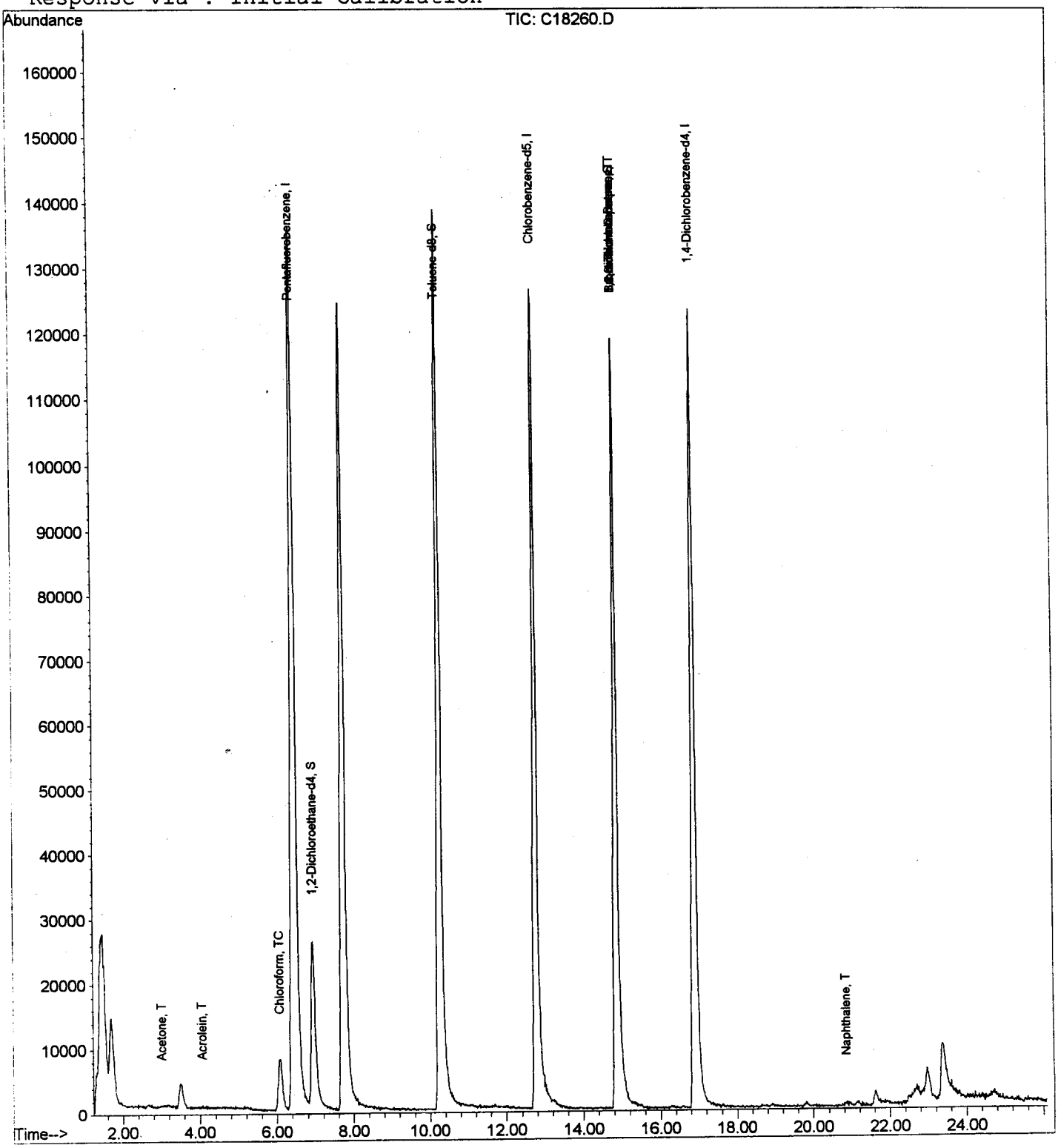
VR
01/02/01

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\122900\C18260.D Vial: 11
Acq On : 29 Dec 2000 20:52 Operator: TAG/VR
Sample : AC05542 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 29 21:18 2000 Quant Results File: 12290025.RES

Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 08:48:11 2000
Response via : Initial Calibration



1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

029-EQB-Q4

Lab Name: Accura Analytical Lab. Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: AC05542

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: C18260.D

Level: (low/med) LOW Date Received: 12/21/00

% Moisture: not dec. _____ Date Analyzed: 12/29/00

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\122900\C18260.D
Acq On : 29 Dec 2000 20:52
Sample : AC05542 25ml DF=1
Misc : 26563/C12140025
MS Integration Params: LSCINT.P

Vial: 11
Operator: TAG/VR
Inst : VOA-C
Multiplr: 1.00

Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Smoothing : OFF
Sampling : 1
Start Thrs: 0.2
Stop Thrs : 0

Filtering: 5
Min Area: 1 % of largest Peak
Max Peaks: 100
Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

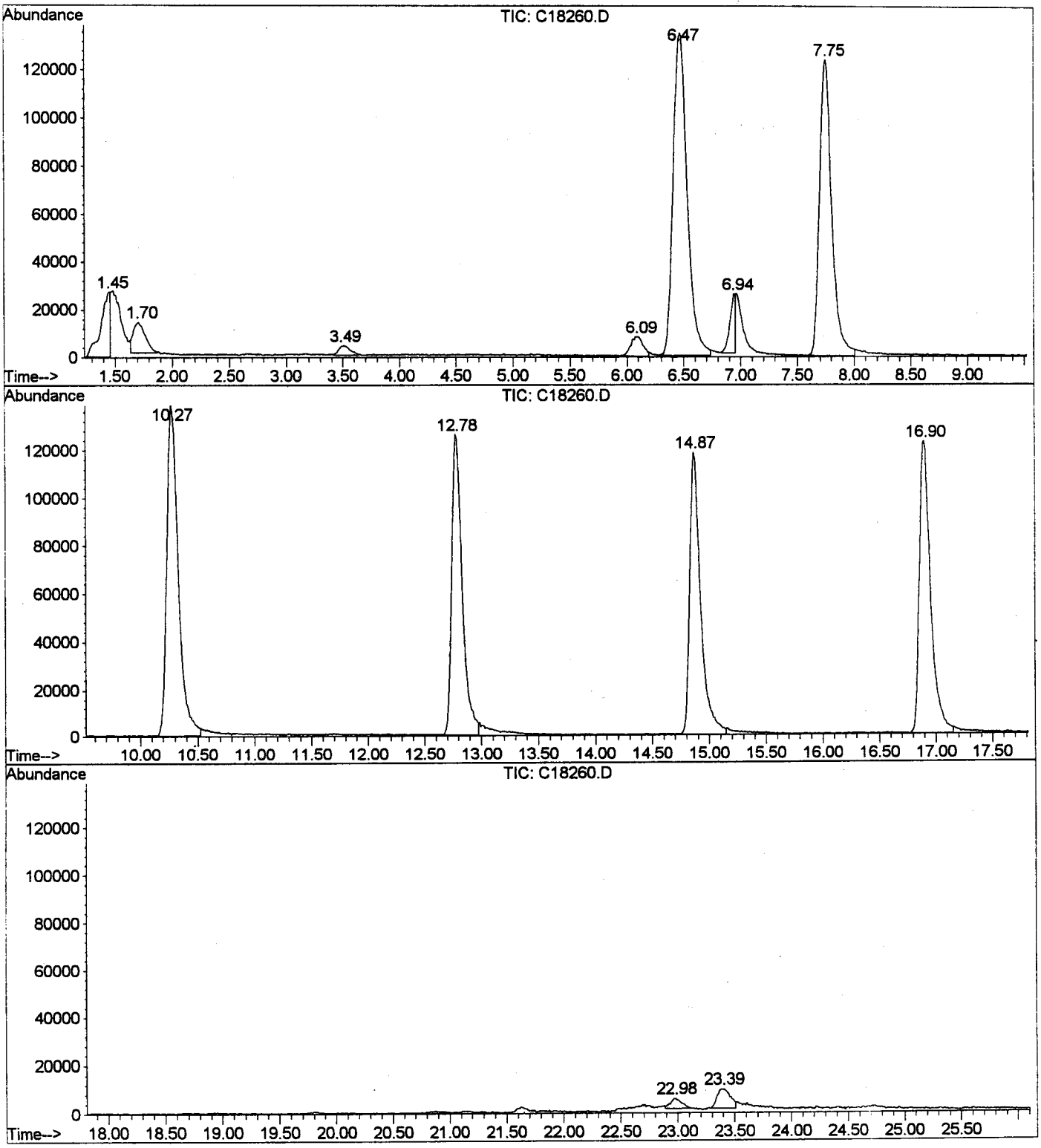
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	1.448	3	23	24	rBV	27006	151284	13.12%	2.532%
2	1.704	42	49	66	rVB2	12866	93766	8.13%	1.569%
3	3.489	222	230	245	rBV7	3761	26338	2.28%	0.441%
4	6.093	477	494	504	rBV2	7936	59677	5.18%	0.999%
5	6.467	512	532	559	rBV2	135319	1152678	100.00%	19.288%
6	6.941	569	580	581	rBV	24757	80256	6.96%	1.343%
7	7.749	646	662	688	rBV	124184	920155	79.83%	15.397%
8	10.274	903	918	943	rBV	138458	950549	82.46%	15.906%
9	12.779	1160	1172	1192	rBV	126108	819365	71.08%	13.711%
10	14.870	1370	1384	1412	rBV	118548	785430	68.14%	13.143%
11	16.901	1576	1590	1615	rBV2	123099	840372	72.91%	14.062%
12	22.976	2197	2206	2219	rVB8	4407	29272	2.54%	0.490%
13	23.390	2238	2248	2260	rBV7	8204	66896	5.80%	1.119%

Sum of corrected areas: 5976038

C18260.D 12290025.M Thu Jan 04 10:31:02 2001 RPT1

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\122900\C18260.D
Operator : TAG/VR
Acquired : 29 Dec 2000 20:52 using AcqMethod 12290025
Instrument : VOA-C
Sample Name: AC05542 25ml DF=1
Misc Info : 26563/C12140025
Vial Number: 11
Quant File :12290025.RES (RTE Integrator)



C18260.D 12290025.M Thu Jan 04 10:31:03 2001 RPT1

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\122900\C18260.D Vial: 11
Acq On : 29 Dec 2000 20:52 Operator: TAG/VR
Sample : AC05542 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: LSCINT.P

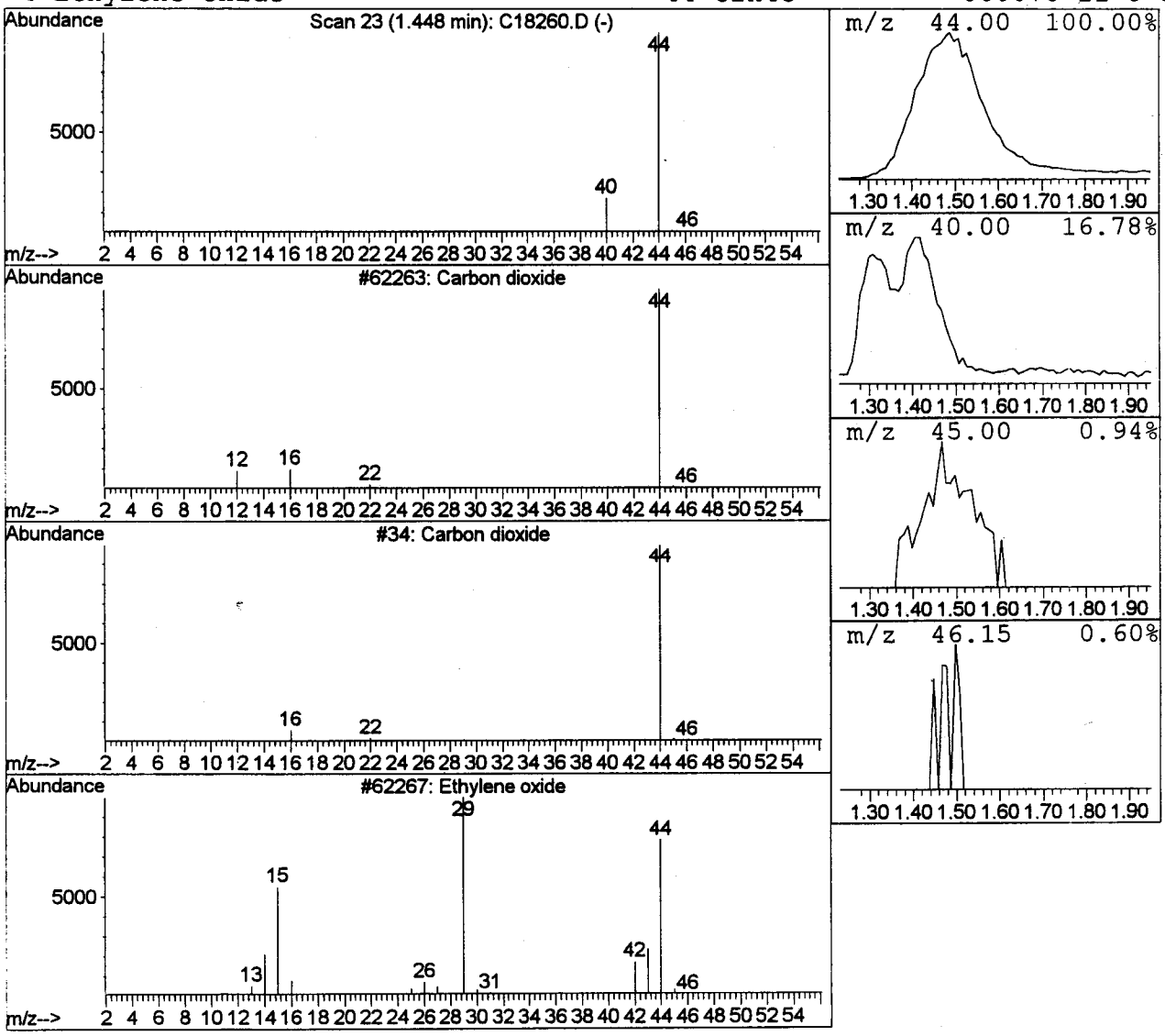
Quant Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

****

Peak Number 1 Carbon dioxide Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.45	1.31 ug\L	151284	Pentafluorobenzene	6.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbon dioxide	44	CO2	000124-38-9	4
2	Carbon dioxide	44	CO2	000124-38-9	4
3	Ethylene oxide	44	C2H4O	000075-21-8	3
4	Ethylene oxide	44	C2H4O	000075-21-8	3



Data File : C:\HPCHEM\1\DATA\122900\C18260.D Vial: 11
Acq On : 29 Dec 2000 20:52 Operator: TAG/VR
Sample : AC05542 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: LSCINT.P

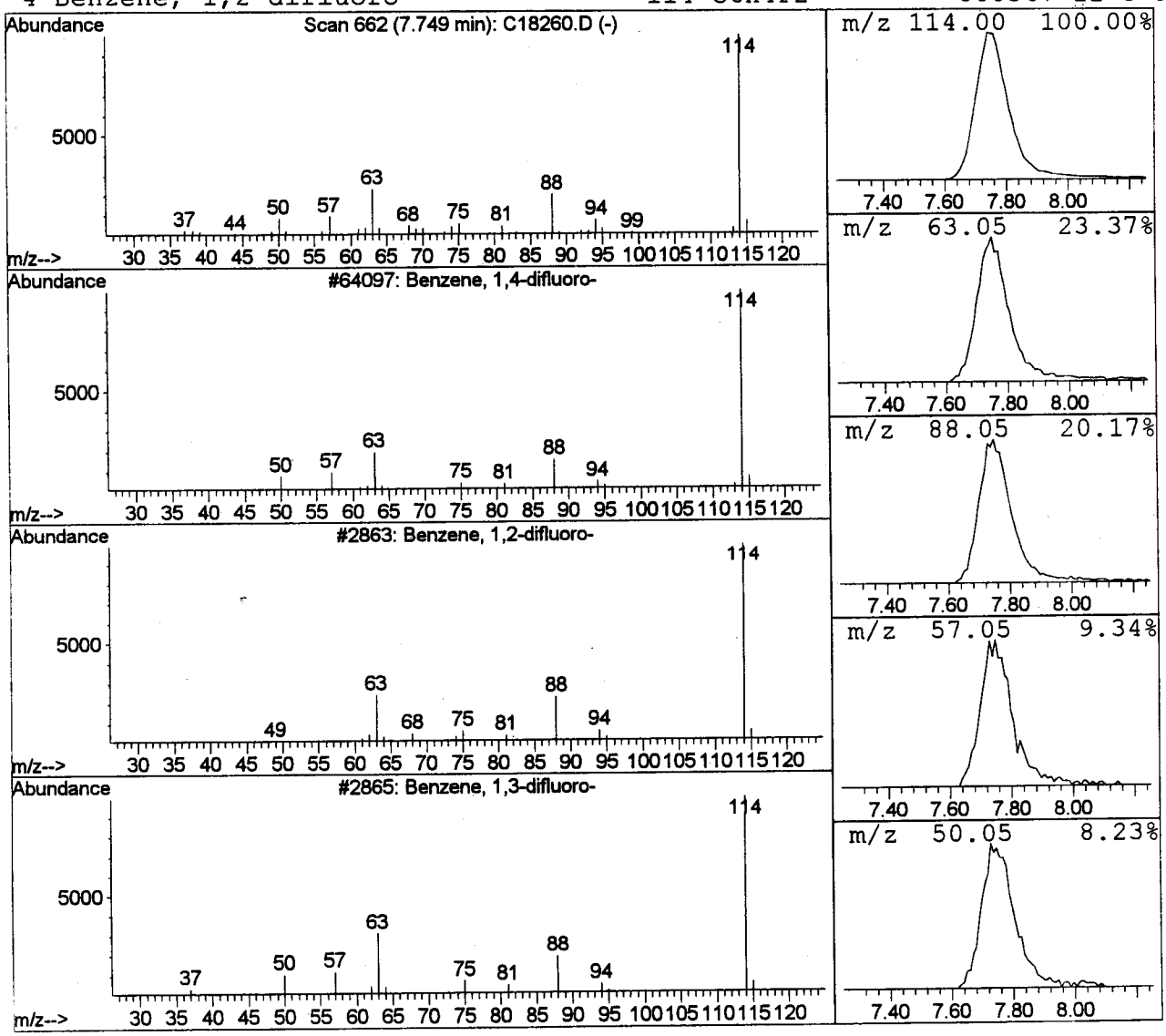
Quant Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

****

Peak Number 2 Benzene, 1,4-difluoro- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.75	7.98 ug\L	920155	Pentafluorobenzene	6.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,4-difluoro-	114	C6H4F2	000540-36-3	97
2	Benzene, 1,2-difluoro-	114	C6H4F2	000367-11-3	95
3	Benzene, 1,3-difluoro-	114	C6H4F2	000372-18-9	95
4	Benzene, 1,2-difluoro-	114	C6H4F2	000367-11-3	94



Tentatively Identified Compound (LSC) summary

Operator ID: TAG/VR Date Acquired: 29 Dec 2000 20:52
Data File: C:\HPCHEM\1\DATA\122900\C18260.D
Name: AC05542 25ml DF=1
Misc: 26563/C12140025
Method: c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title: 8260 CALIBRATION FOR 25ML WATER
Library Searched: C:\DATABASE\NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Carbon dioxide	1.45	1.3	ug\L	151284	ISTD01	6.47	1152680	10.0
Benzene, 1,4-difluor	7.75	8.0	ug\L	920155	ISTD01	6.47	1152680	10.0

C18260.D 12290025.M Thu Jan 04 10:31:07 2001 RPT1

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\122900\C18261.D Vial: 12
Acq On : 29 Dec 2000 21:22 Operator: TAG/VR
Sample : AC05543 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 29 21:48 2000 Quant Results File: 12290025.RES

Quant Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 10:24:33 2000
Response via : Initial Calibration
DataAcq Meth : 12290025

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	6.48	168	426363	10.00 ug\L	0.00
45) Chlorobenzene-d5	12.79	117	290790	10.00 ug\L	0.01
61) 1,4-Dichlorobenzene-d4	16.90	152	143371	10.00 ug\L	0.01
System Monitoring Compounds					
32) 1,2-Dichloroethane-d4	6.96	65	73401	8.67 ug\L	0.01
Spiked Amount 10.000	Range 80 - 120		Recovery = 86.70%		
46) Toluene-d8	10.27	98	409186	9.50 ug\L	0.00
Spiked Amount 10.000	Range 87 - 104		Recovery = 95.00%		
65) Bromofluorobenzene	14.87	95	189030	9.51 ug\L	0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 95.10%		

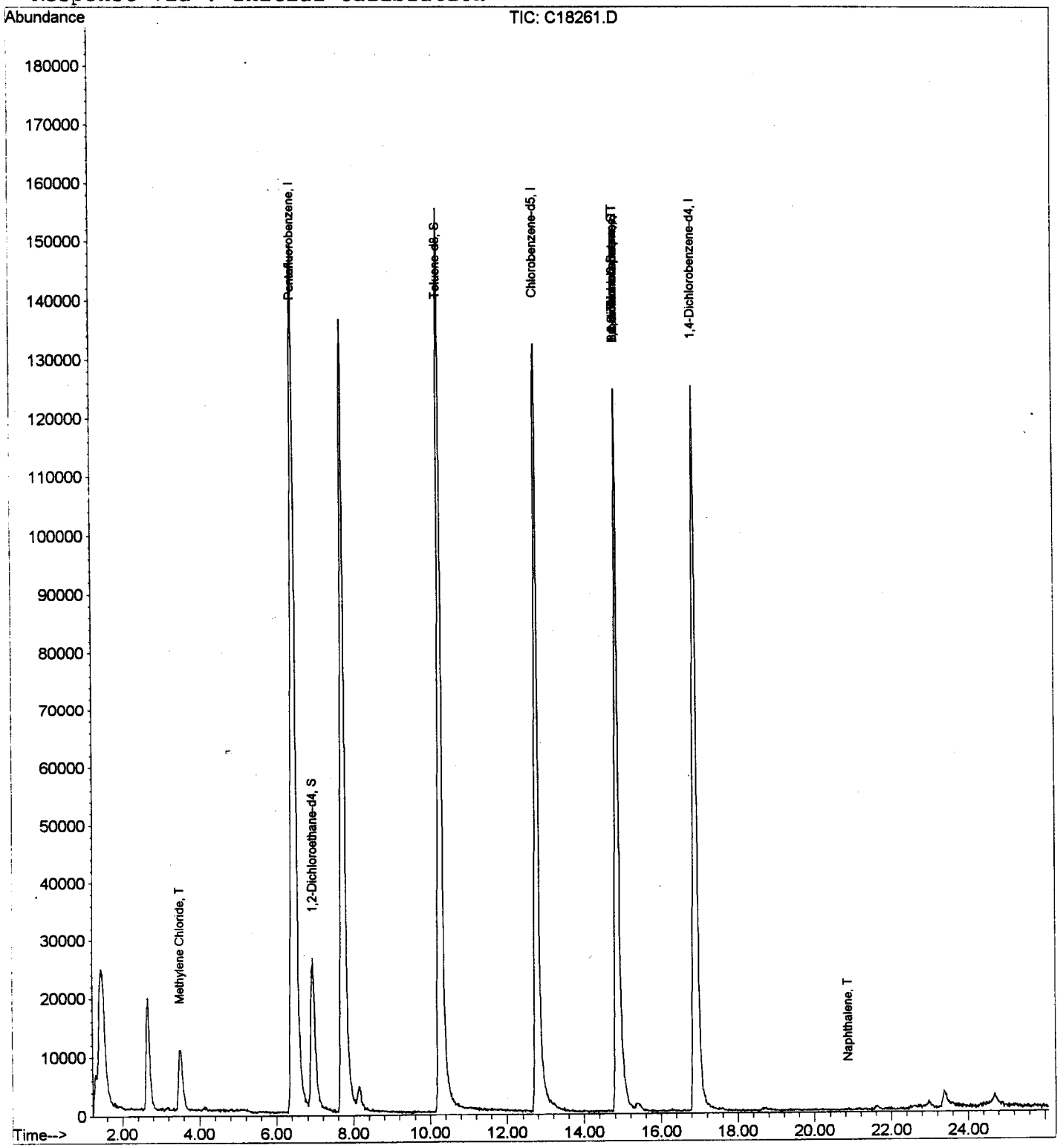
Target Compounds					Qvalue
16) Methylene Chloride	3.51	86	13223	0.86 ug\L #	28
34) Isobutyl alcohol	7.08	43	65	~~-26.46 ug\L~~ #	17
64) 1,4-dichloro-2-Butene	14.88	75	89700	~~20.19 ug\L~~ #	100
68) 1,2,3-Trichloropropane	14.88	75	89700	~~20.18 ug\L~~ #	100
85) Naphthalene	20.88	128	295	0.98 ug\L	100

VR
01/02/01

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\122900\C18261.D Vial: 12
Acq On : 29 Dec 2000 21:22 Operator: TAG/VR
Sample : AC05543 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 29 21:48 2000 Quant Results File: 12290025.RES

Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 08:48:11 2000
Response via : Initial Calibration



1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TRIP BLANK

Lab Name: Accura Analytical Lab. Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: AC05543

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: C18261.D

Level: (low/med) LOW Date Received: 12/21/00

% Moisture: not dec. _____ Date Analyzed: 12/29/00

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\122900\C18261.D
Acq On : 29 Dec 2000 21:22
Sample : AC05543 25ml DF=1
Misc : 26563/C12140025
MS Integration Params: LSCINT.P

Vial: 12
Operator: TAG/VR
Inst : VOA-C
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Smoothing : OFF
Sampling : 1
Start Thrs: 0.2
Stop Thrs : 0

Filtering: 5
Min Area: 1 % of largest Peak
Max Peaks: 100
Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

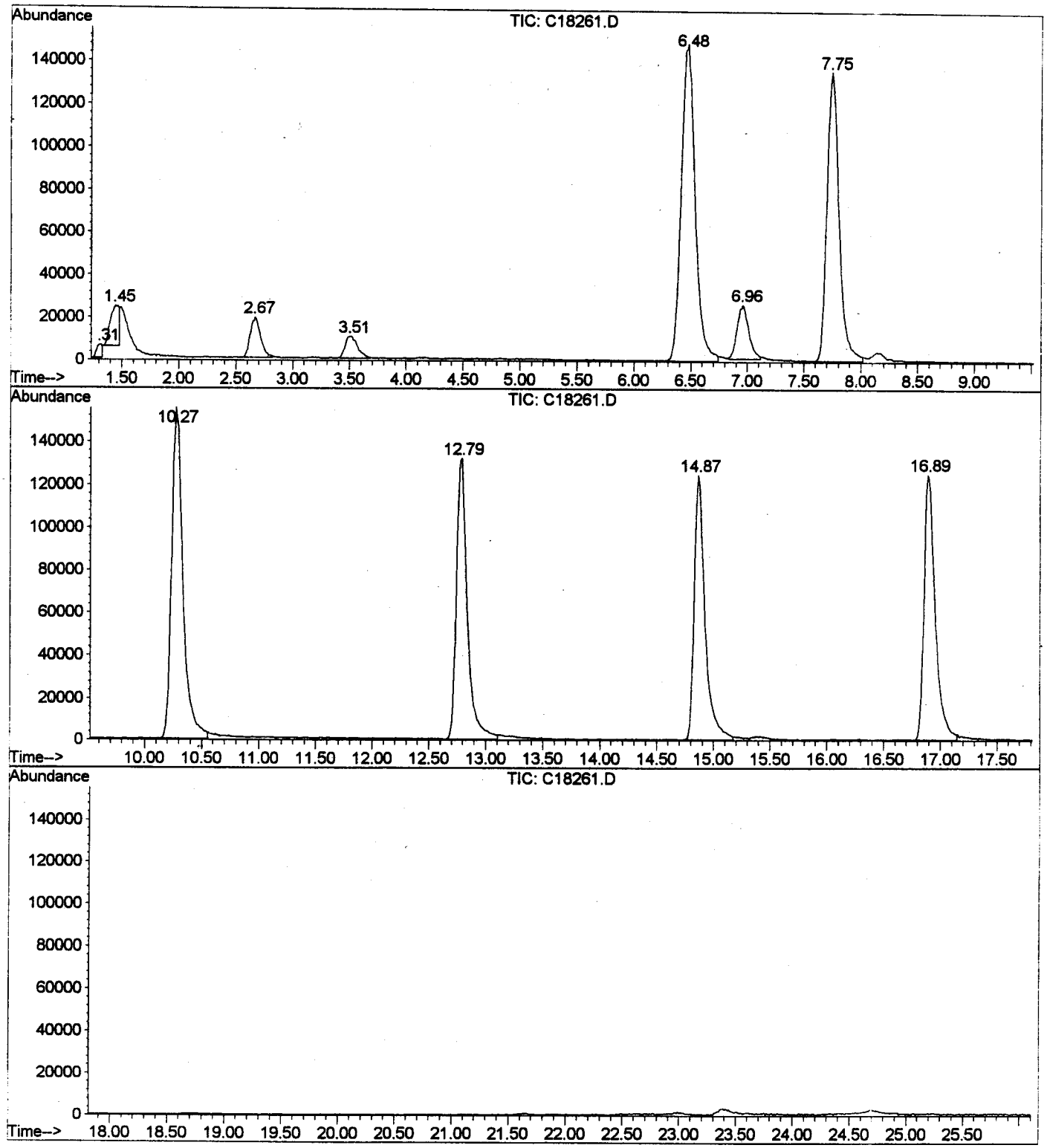
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	1.309	3	9	11	rBV	6237	21326	1.68%	0.333%
2	1.447	13	23	26	rBV2	18726	95852	7.54%	1.498%
3	2.670	136	147	163	rBV	18861	118177	9.30%	1.847%
4	3.509	223	232	250	rVB3	10023	74910	5.90%	1.171%
5	6.477	514	533	560	rBV	148946	1270498	100.00%	19.860%
6	6.960	569	582	598	rBV4	25289	181506	14.29%	2.837%
7	7.749	647	662	689	rBV2	136177	994111	78.25%	15.539%
8	10.274	905	918	946	rBV	155128	1074800	84.60%	16.801%
9	12.789	1160	1173	1205	rBV3	131958	888832	69.96%	13.894%
10	14.869	1370	1384	1415	rBV	124276	825742	64.99%	12.908%
11	16.891	1578	1589	1615	rBV	124693	851599	67.03%	13.312%

Sum of corrected areas: 6397353

C18261.D 12290025.M Fri Jan 05 08:08:57 2001 RPT1

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\122900\C18261.D
Operator : TAG/VR
Acquired : 29 Dec 2000 21:22 using AcqMethod 12290025
Instrument : VOA-C
Sample Name: AC05543 25ml DF=1
Misc Info : 26563/C12140025
Vial Number: 12
Quant File :12290025.RES (RTE Integrator)



C18261.D 12290025.M Fri Jan 05 08:08:58 2001 RPT1

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\122900\C18261.D
Acq On : 29 Dec 2000 21:22
Sample : AC05543 25ml DF=1
Misc : 26563/C12140025
MS Integration Params: LSCINT.P

Vial: 12
Operator: TAG/VR
Inst : VOA-C
Multiplr: 1.00

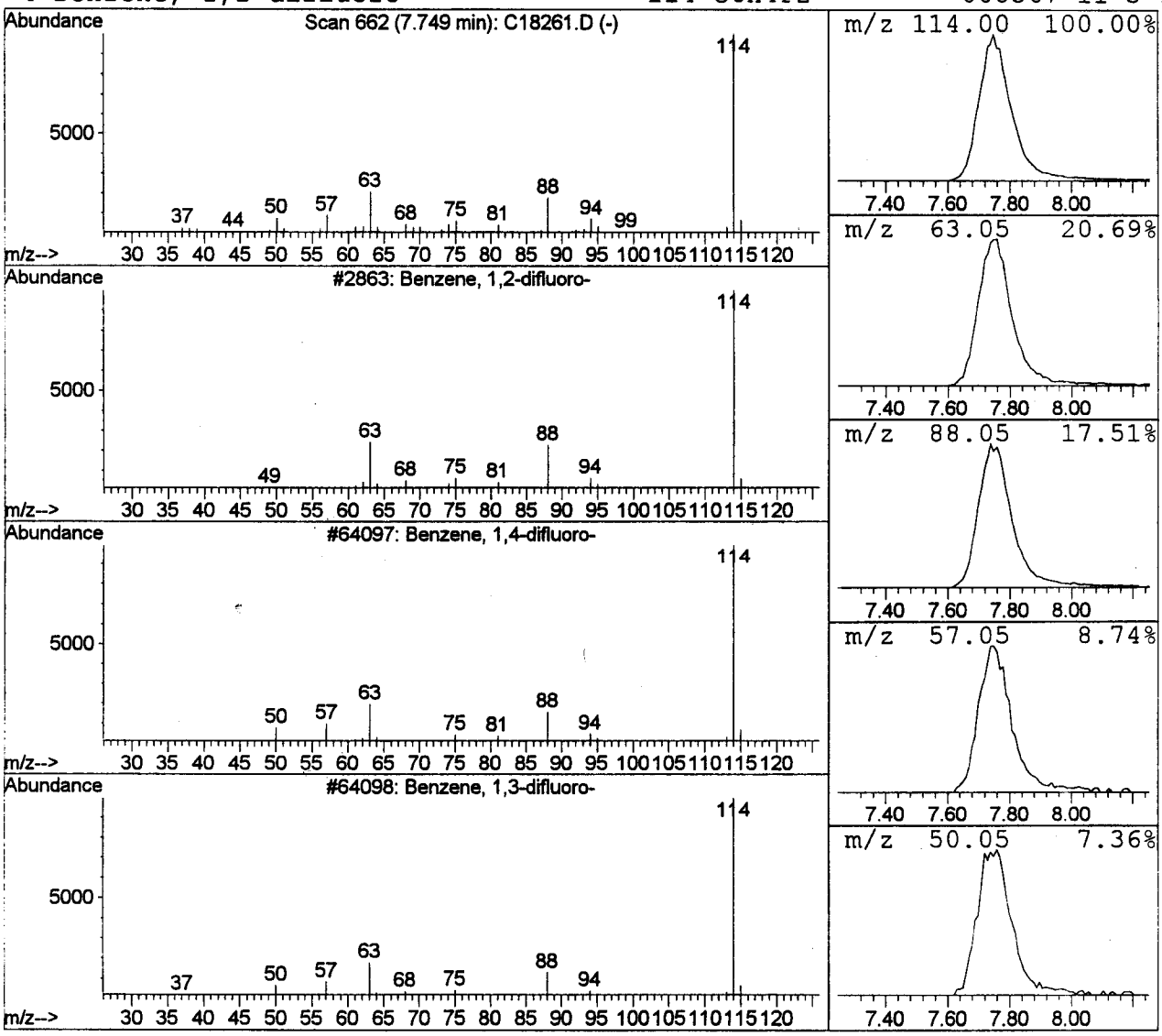
Quant Method : C:\HPCHEM\1\DATA\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

****

Peak Number 1 Benzene, 1,2-difluoro- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.75	7.82 ug\L	994111	Pentafluorobenzene	6.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2-difluoro-	114	C6H4F2	000367-11-3	97
2	Benzene, 1,4-difluoro-	114	C6H4F2	000540-36-3	97
3	Benzene, 1,3-difluoro-	114	C6H4F2	000372-18-9	95
4	Benzene, 1,2-difluoro-	114	C6H4F2	000367-11-3	94



Tentatively Identified Compound (LSC) summary

Operator ID: TAG/VR Date Acquired: 29 Dec 2000 21:22
Data File: C:\HPCHEM\1\DATA\122900\C18261.D
Name: AC05543 25ml DF=1
Misc: 26563/C12140025
Method: C:\HPCHEM\1\DATA\122900\12290025.M (RTE Integrator)
Title: 8260 CALIBRATION FOR 25ML WATER
Library Searched: C:\DATABASE\NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Benzene, 1,2-difluor	7.75	7.8	ug\L	994111	ISTD01	6.48	1270500	10.0

C18261.D 12290025.M Fri Jan 05 08:09:00 2001 RPT1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\010401\01040103.D Vial: 3
Acq On : 4 Jan 2001 12:24 Operator: MT
Sample : QFW1226001 Inst : DRO-B
Misc : PROW BLANK Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 4 13:05 2001 Quant Results File: PRO1208.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.08	1973407	42.739 ug/mlm
Spiked Amount 50.000		Recovery =	85.48% ✓ MT
3) SC C(39)	34.30	588738	13.402 ug/mlm
Spiked Amount 300.000		Recovery =	4.47% x MT
Target Compounds			
1) HM Florida PRO	3.70	21866968	384.471 ug/ml /1000 =

0.385 ppm
MT

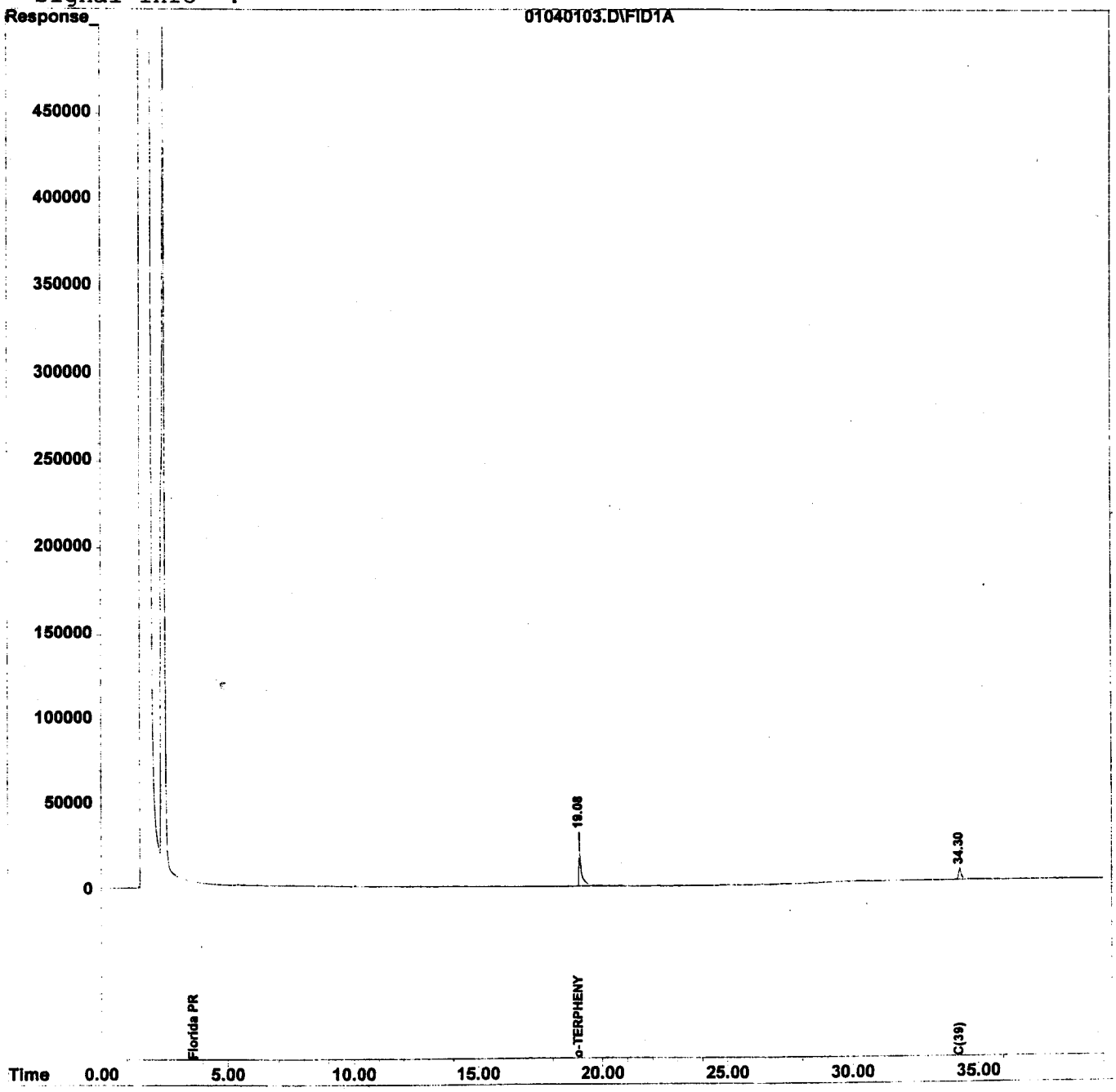
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\010401\01040103.D Vial: 3
Acq On : 4 Jan 2001 12:24 Operator: MT
Sample : QFW1226001 Inst : DRO-B
Misc : PROW BLANK Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 4 13:05 2001 Quant Results File: PRO1208.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\122900\C18251.D Vial: 2
Acq On : 29 Dec 2000 15:59 Operator: TAG/VR
Sample : QVW 122900 C1 Inst : VOA-C
Misc : WATER BLANK 25ml DF=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 29 16:26 2000 Quant Results File: 12290025.RES

Quant Method : C:\HPCHEM\1\DATA\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 10:24:33 2000
Response via : Initial Calibration
DataAcq Meth : 12290025

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	6.45	168	441442	10.00 ug\L	-0.02
45) Chlorobenzene-d5	12.77	117	281553	10.00 ug\L	0.00
61) 1,4-Dichlorobenzene-d4	16.90	152	136373	10.00 ug\L	0.01
System Monitoring Compounds					
32) 1,2-Dichloroethane-d4	6.95	65	70982	8.10 ug\L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 81.00%		
46) Toluene-d8	10.27	98	414146	9.93 ug\L	0.00
Spiked Amount 10.000	Range 87 - 104		Recovery = 99.30%		
65) Bromofluorobenzene	14.87	95	182227	9.64 ug\L	0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 96.40%		

Target Compounds					Qvalue
16) Methylene Chloride	3.50	86	1123	~~1.03 ug\L #~~	58
34) Isobutyl alcohol	7.16	43	182	~~24.54 ug\L #~~	17
36) Trichloroethene	7.74	95	11421	~~0.55 ug\L #~~	9
64) 1,4-dichloro-2-Butene	14.88	75	89405	~~21.16 ug\L #~~	100
68) 1,2,3-Trichloropropane	14.88	75	89405	~~21.15 ug\L #~~	100
85) Naphthalene	20.86	128	891	1.05 ug\L	100

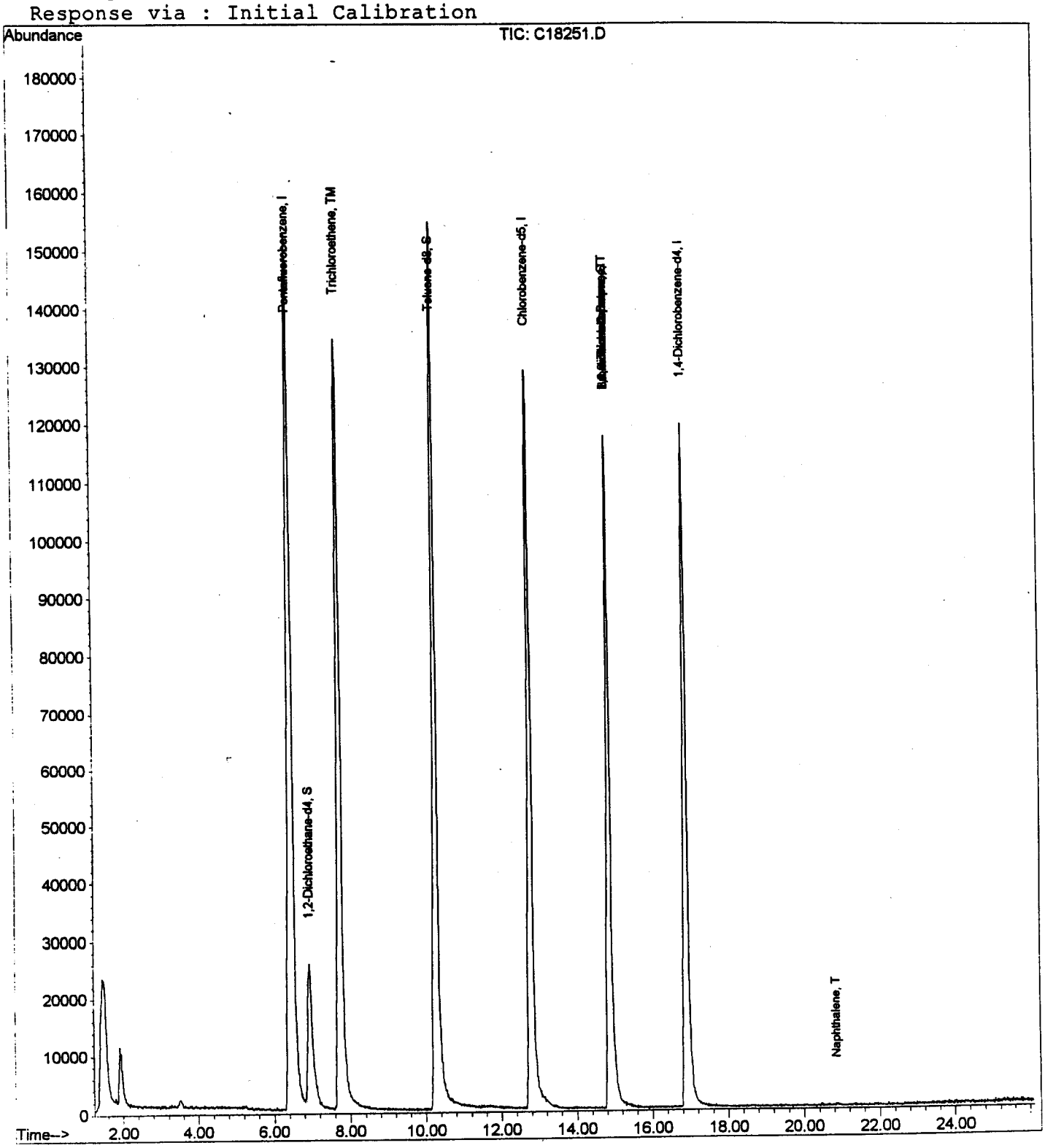
VR
12/29/00

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\122900\C18251.D Vial: 2
Acq On : 29 Dec 2000 15:59 Operator: TAG/VR
Sample : QVW 122900 C1 Inst : VOA-C
Misc : WATER BLANK 25ml DF=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 29 16:26 2000 Quant Results File: 12290025.RES

Method : C:\HPCHEM\1\DATA\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 08:48:11 2000
Response via : Initial Calibration



1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

WATER BLANK

Lab Name: Accura Analytical Lab. Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: QVW122900 C1

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: C18251.D

Level: (low/med) LOW Date Received: 12/21/00

% Moisture: not dec. _____ Date Analyzed: 12/29/00

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\122900\C18251.D
Acq On : 29 Dec 2000 15:59
Sample : QVW 122900 C1
Misc : WATER BLANK 25ml DF=1
MS Integration Params: LSCINT.P

Vial: 2
Operator: TAG/VR
Inst : VOA-C
Multiplr: 1.00

Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Smoothing : OFF
Sampling : 1
Start Thrs: 0.2
Stop Thrs : 0

Filtering: 5
Min Area: 1 % of largest Peak
Max Peaks: 100
Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

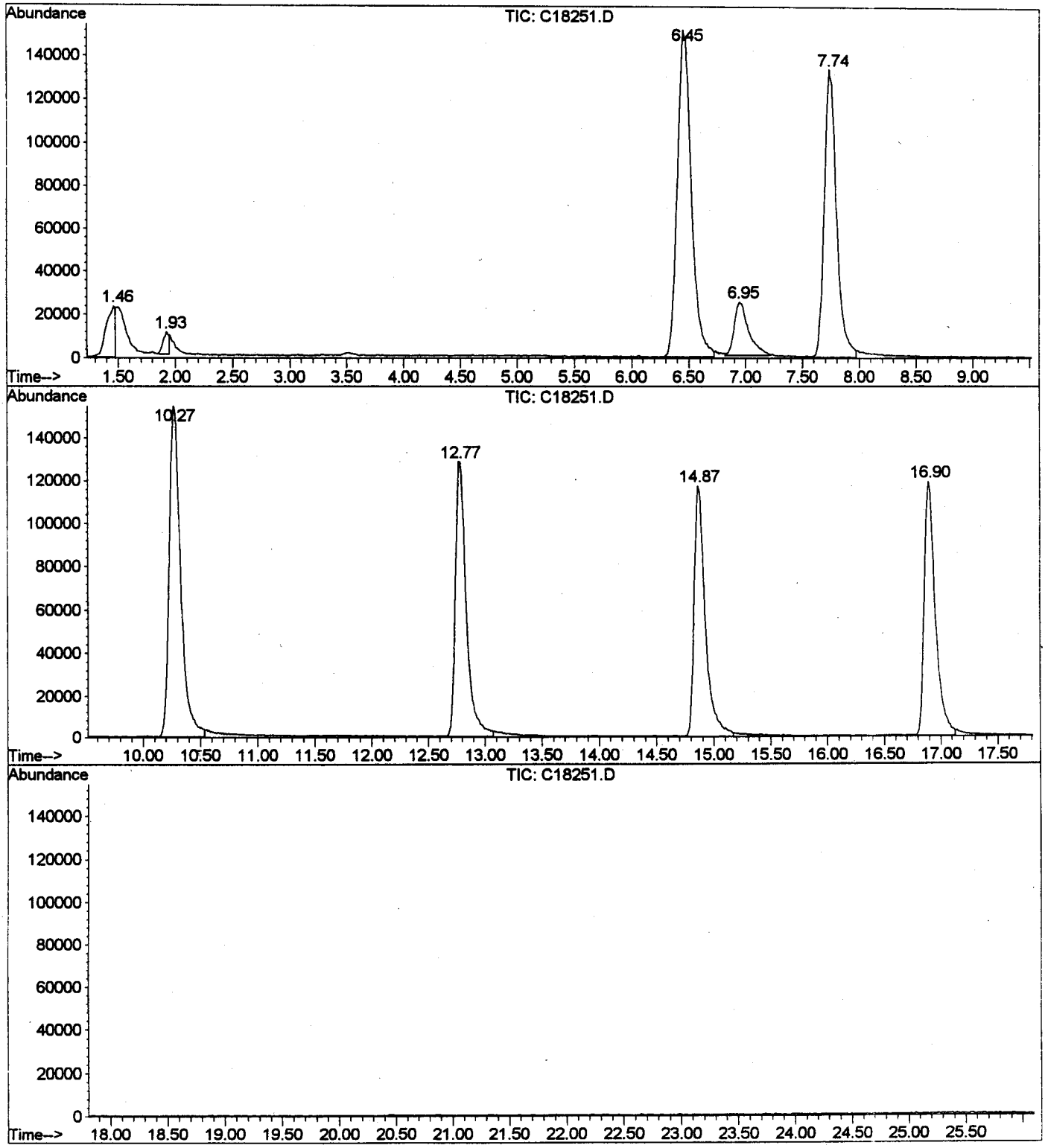
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	1.463	4	25	26	rBV2	23124	119766	9.27%	1.941%
2	1.927	63	72	74	rBV	9766	33330	2.58%	0.540%
3	6.453	513	531	558	rBV2	152168	1291308	100.00%	20.929%
4	6.946	568	581	609	rVB5	24563	214909	16.64%	3.483%
5	7.735	644	661	685	rBV	134014	991282	76.77%	16.066%
6	10.270	904	918	945	rBV	154231	1065179	82.49%	17.264%
7	12.775	1161	1172	1202	rBV2	128384	859241	66.54%	13.926%
8	14.865	1371	1384	1415	rBV2	117044	792061	61.34%	12.837%
9	16.897	1578	1590	1613	rBV2	119030	802976	62.18%	13.014%

Sum of corrected areas: 6170052

C18251.D 12290025.M Thu Jan 04 10:33:03 2001 RPT1

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\122900\C18251.D
Operator : TAG/VR
Acquired : 29 Dec 2000 15:59 using AcqMethod 12290025
Instrument : VOA-C
Sample Name: QVW 122900 C1
Misc Info : WATER BLANK 25ml DF=1
Vial Number: 2
Quant File :12290025.RES (RTE Integrator)



C18251.D 12290025.M Thu Jan 04 10:33:04 2001 RPT1

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\122900\C18251.D
Acq On : 29 Dec 2000 15:59
Sample : QVW 122900 C1
Misc : WATER BLANK 25ml DF=1
MS Integration Params: LSCINT.P

Vial: 2
Operator: TAG/VR
Inst : VOA-C
Multiplr: 1.00

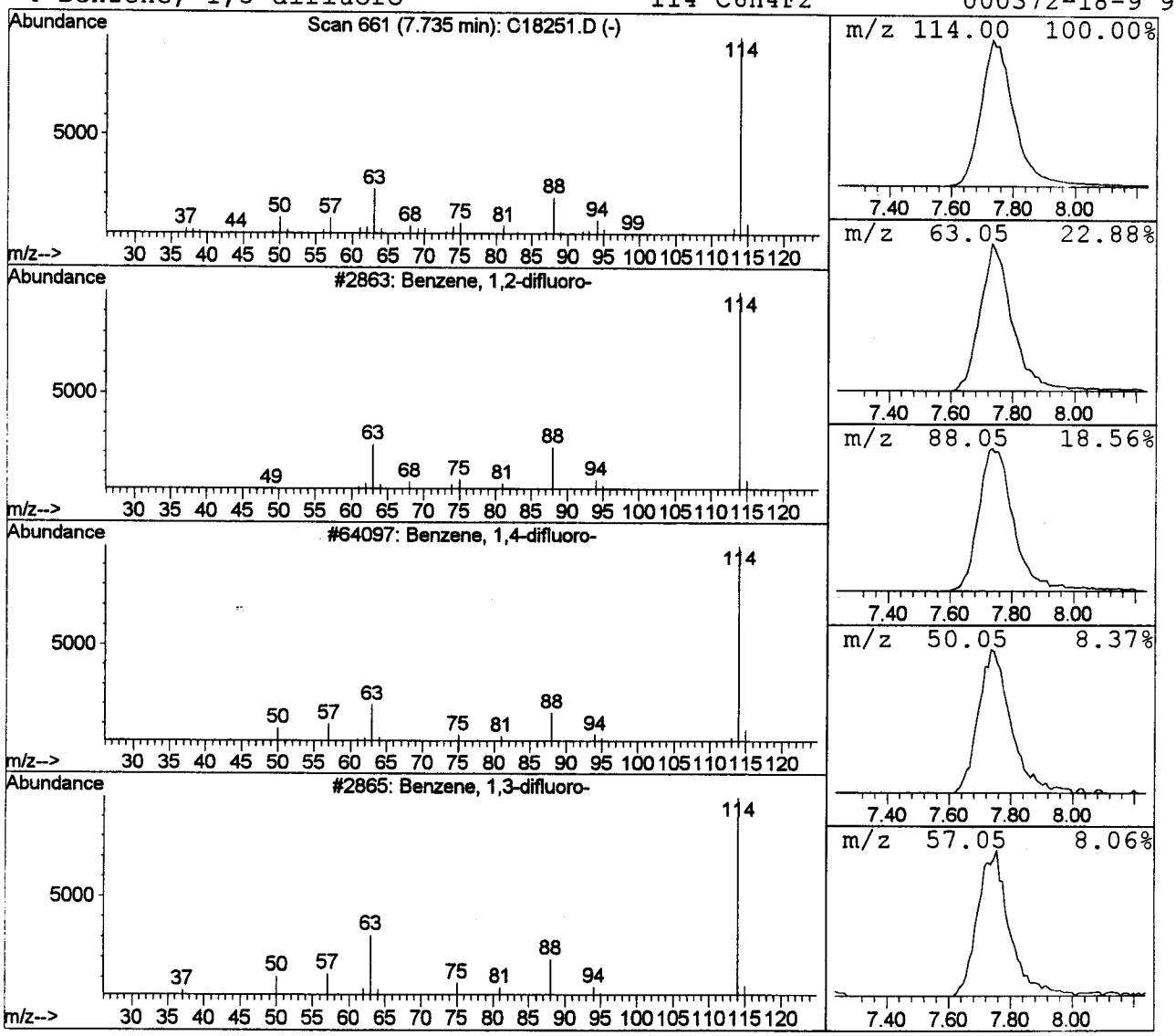
Quant Method : C:\HPCHEM\1\DATA\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

****

Peak Number 1 Benzene, 1,2-difluoro- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.74	7.68 ug\L	991282	Pentafluorobenzene	6.45

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2-difluoro-	114	C6H4F2	000367-11-3	97
2	Benzene, 1,4-difluoro-	114	C6H4F2	000540-36-3	97
3	Benzene, 1,3-difluoro-	114	C6H4F2	000372-18-9	96
4	Benzene, 1,3-difluoro-	114	C6H4F2	000372-18-9	91



Tentatively Identified Compound (LSC) summary

Operator ID: TAG/VR Date Acquired: 29 Dec 2000 15:59
Data File: C:\HPCHEM\1\DATA\122900\C18251.D
Name: QVW 122900 C1
Misc: WATER BLANK 25ml DF=1
Method: C:\HPCHEM\1\DATA\122900\12290025.M (RTE Integrator)
Title: 8260 CALIBRATION FOR 25ML WATER
Library Searched: C:\DATABASE\NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Benzene, 1,2-difluor	7.74	7.7	ug\L	991282	ISTD01	6.45	1291310	10.0

C18251.D 12290025.M Thu Jan 04 10:33:07 2001 RPT1

INITIAL CALIBRATION
5 POINT DRO

DATE:	12/8/00			
METHOD:	FL PRO			
INSTRUMENT:	DRO-B ; FRONT COLUMN			
ANALYST:	MT			
ICAL ID:	PRO1208			
CONCENTRATION (PPM)			**AREA**	**Rf**
850			62182797	73156.2
2550			138696300	54390.7
4250			225396394	53034.4
5950			320089278	53796.5
7692			384596146	49999.5
AVERAGE Rf:			56875.5	
% RSD:			16.3	

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\011001\01100104.D Vial: 4
Acq On : 10 Jan 2001 17:48 Operator: MT
Sample : 4250 PHS PRO CCV Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 10 18:39 2001 Quant Results File: PRO1208.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.08	2444482	52.942 ug/mlm
Spiked Amount 50.000		Recovery =	105.88% MT
3) SC C(39)	34.43	13730556	312.551 ug/mlm
Spiked Amount 300.000		Recovery =	104.18% MT
Target Compounds			
1) HM Florida PRO	3.70	227224656	3995.125 ug/ml

94% MT

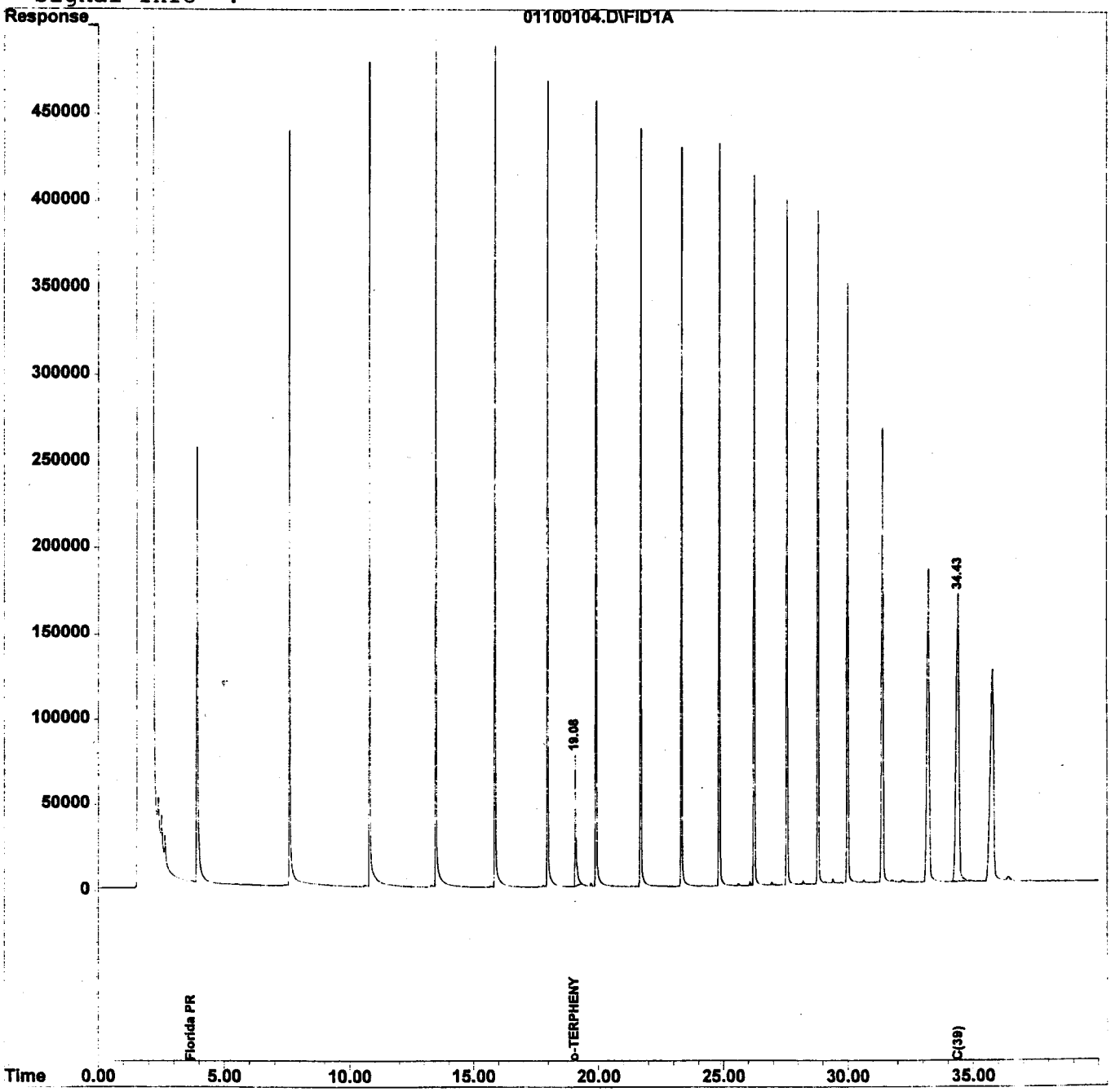
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\011001\01100104.D Vial: 4
Acq On : 10 Jan 2001 17:48 Operator: MT
Sample : 4250 PHS PRO CCV Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 10 18:39 2001 Quant Results File: PRO1208.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\011001\01100101.D Vial: 1
Acq On : 10 Jan 2001 13:36 Operator: MT
Sample : 4250 PHS PRO CCV Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 10 16:33 2001 Quant Results File: PRO1208.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.12	2506056	54.275 ug/mlm
Spiked Amount 50.000		Recovery =	108.55% MT
3) SC C(39)	34.50	13207122	300.636 ug/mlm
Spiked Amount 300.000		Recovery =	100.21% MT
Target Compounds			
1) HM Florida PRO	3.70	215880552	3795.670 ug/ml

89%
MT

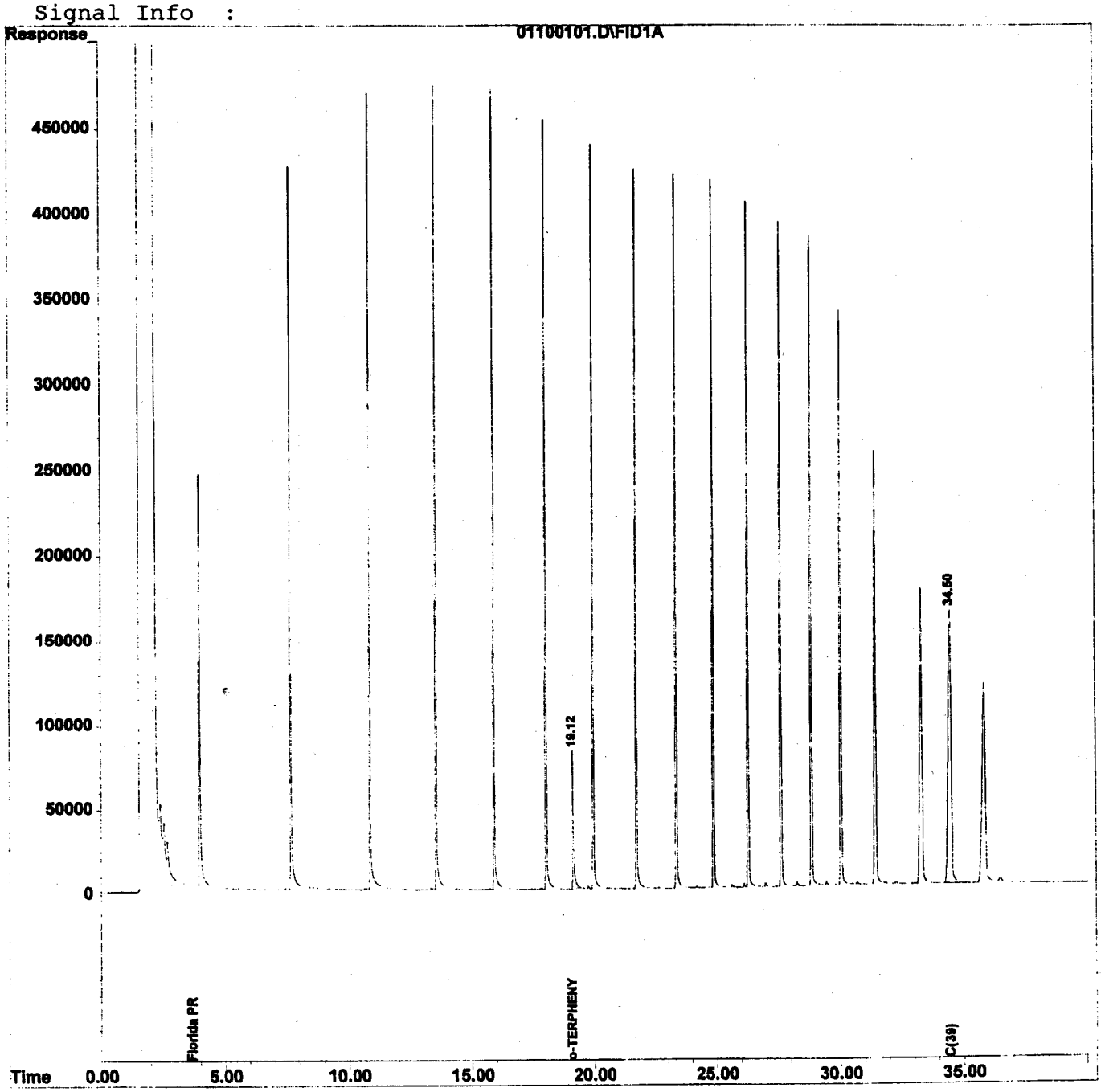
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\011001\01100101.D Vial: 1
Acq On : 10 Jan 2001 13:36 Operator: MT
Sample : 4250 PHS PRO CCV Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 10 16:33 2001 Quant Results File: PRO1208.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\010901\01090116.D Vial: 13
Acq On : 10 Jan 2001 6:37 Operator: MT
Sample : 4250 PHS PRO CCV Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 10 13:26 2001 Quant Results File: PRO1208.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.10	2064695	44.716 ug/mlm
Spiked Amount 50.000		Recovery =	89.43% ✓ MT
3) SC C(39)	34.49	11872833	270.263 ug/mlm
Spiked Amount 300.000		Recovery =	90.09% ✓ MT
Target Compounds			
1) HM Florida PRO	3.70	187828901	3302.458 ug/ml

78% ✓
MT

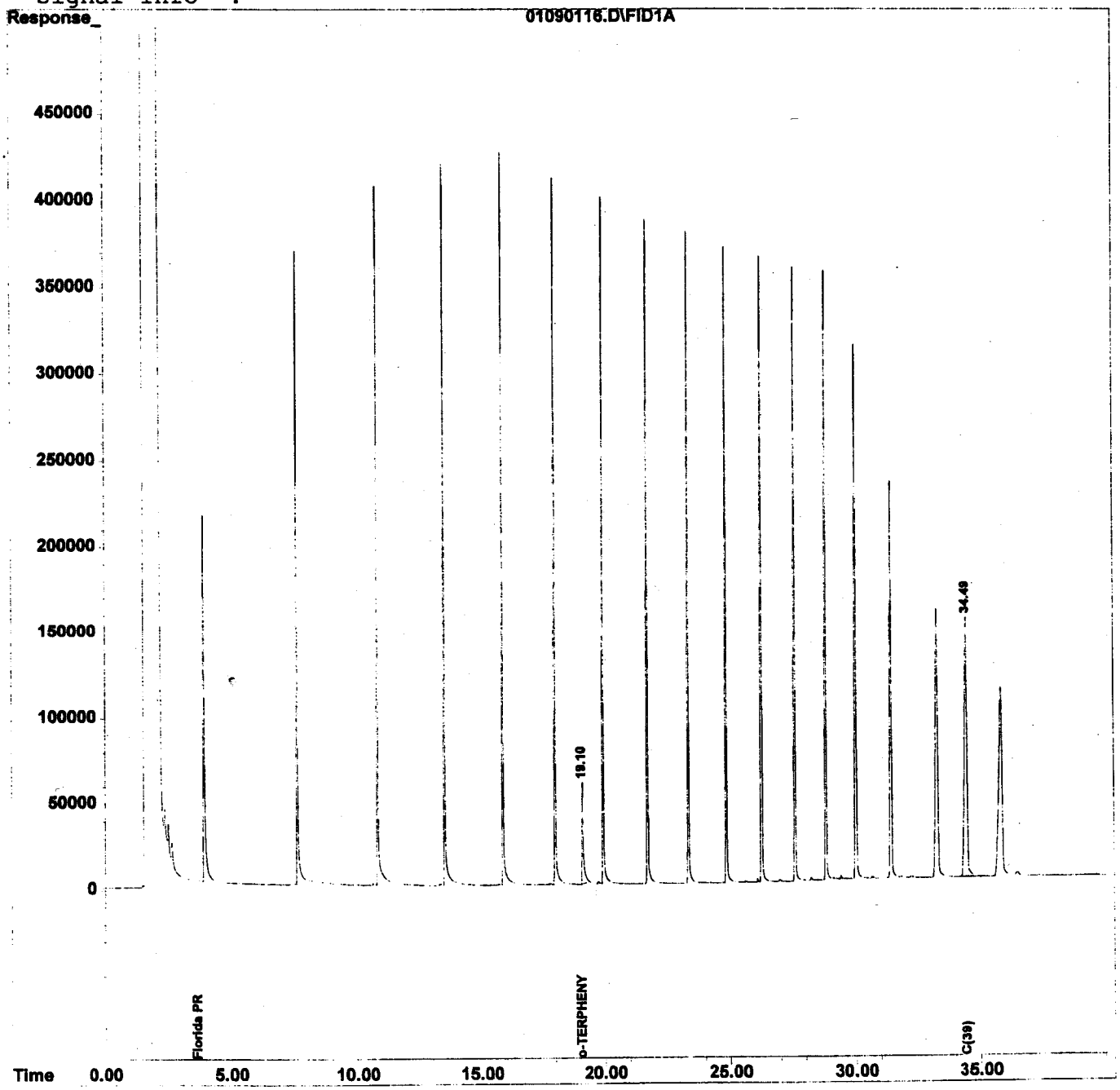
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\010901\01090116.D Vial: 13
Acq On : 10 Jan 2001 6:37 Operator: MT
Sample : 4250 PHS PRO CCV Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 10 13:26 2001 Quant Results File: PRO1208.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\010901\01090113.D Vial: 13
Acq On : 10 Jan 2001 4:12 Operator: MT
Sample : 4250 PHS PRO CCV Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 10 13:25 2001 Quant Results File: PRO1208.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.10	2114393	45.793 ug/mlm
Spiked Amount 50.000		Recovery =	91.59% ✓ MT
3) SC C(39)	34.49	11567248	263.307 ug/mlm
Spiked Amount 300.000		Recovery =	87.77% ✓ MT
Target Compounds			
1) HM Florida PRO	3.70	184495918	3243.857 ug/ml

76% ✓
MT

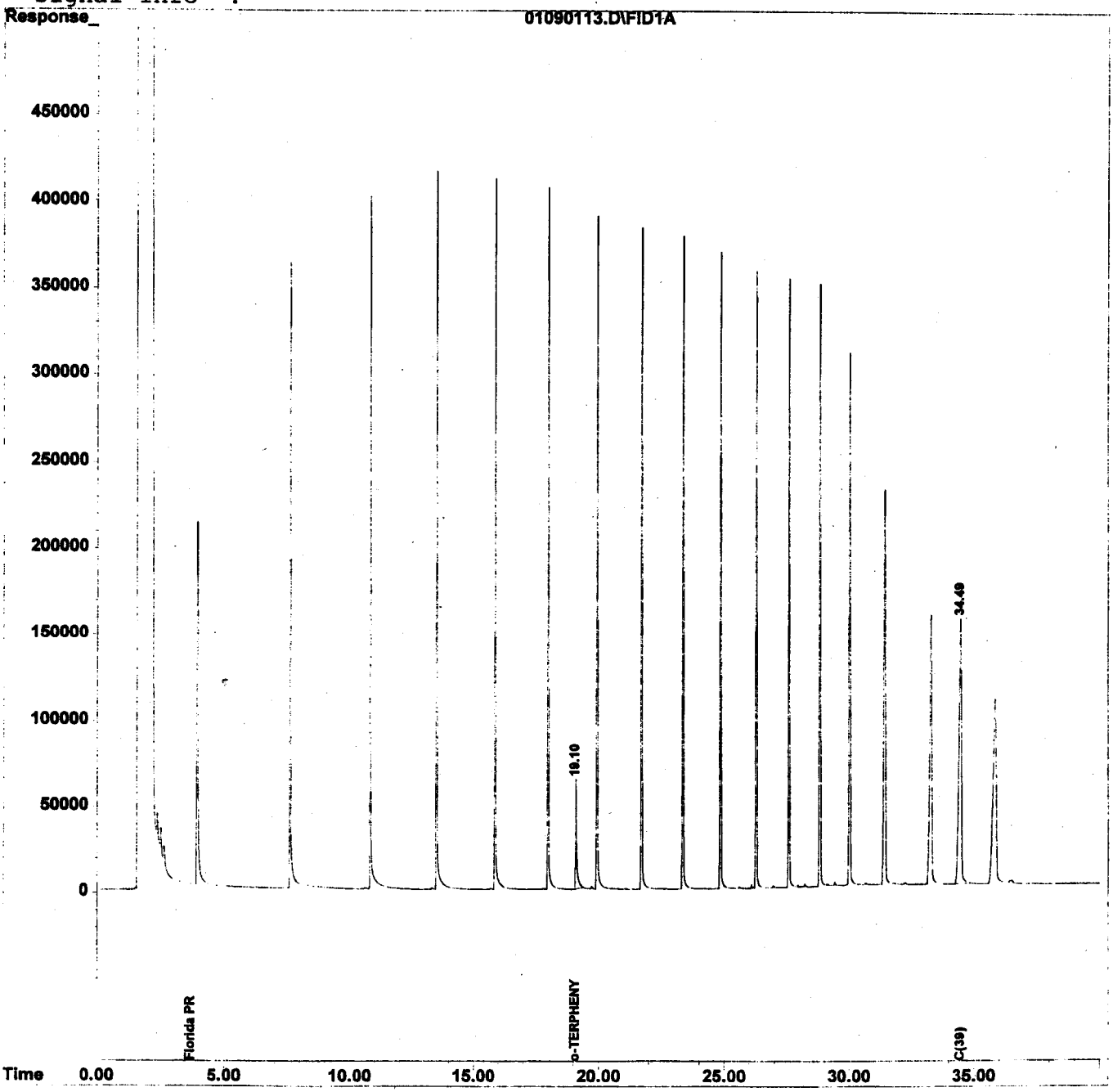
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\010901\01090113.D Vial: 13
Acq On : 10 Jan 2001 4:12 Operator: MT
Sample : 4250 PHS PRO CCV Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 10 13:25 2001 Quant Results File: PRO1208.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\010901\01090101.D Vial: 1
Acq On : 9 Jan 2001 18:28 Operator: MT
Sample : 4250 PHS PRO CCV Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 9 19:09 2001 Quant Results File: PRO1208.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.09	1983164	42.951 ug/mlm
Spiked Amount 50.000		Recovery =	85.90% MT
3) SC C(39)	34.42	10531622	239.733 ug/mlm
Spiked Amount 300.000		Recovery =	79.91% MT
Target Compounds			
1) HM Florida PRO	3.70	190528897	3349.930 ug/ml

79% ✓
MT

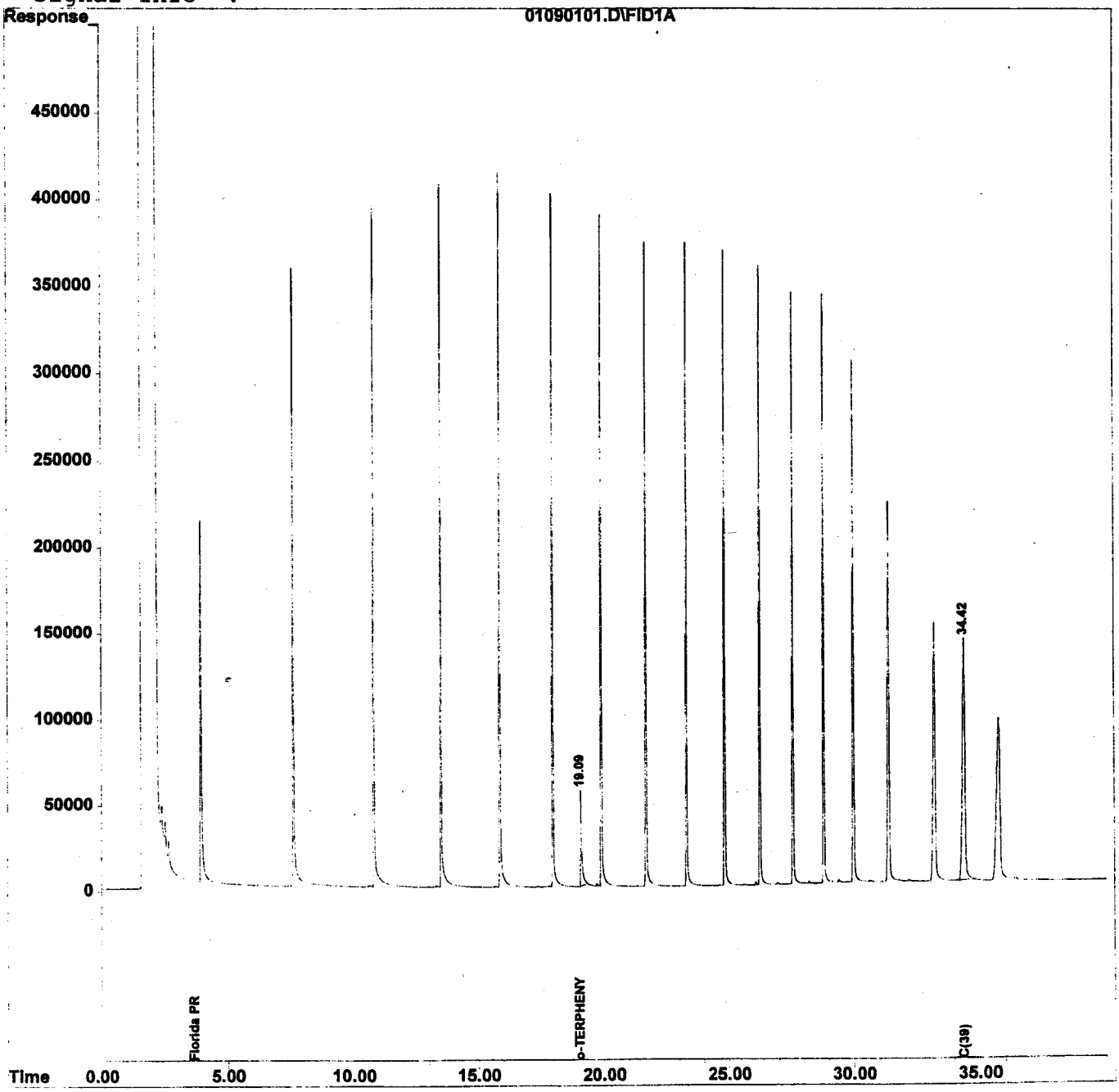
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\010901\01090101.D Vial: 1
Acq On : 9 Jan 2001 18:28 Operator: MT
Sample : 4250 PHS PRO CCV Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 9 19:09 2001 Quant Results File: PRO1208.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\010401\01040105.D Vial: 5
Acq On : 4 Jan 2001 14:03 Operator: MT
Sample : 4250 PHS PRO CCV Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 4 15:53 2001 Quant Results File: PRO1208.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.06f	2490066	53.929 ug/mlm
Spiked Amount 50.000		Recovery =	107.86% ✓ MT
3) SC C(39)	34.41	13634536	310.365 ug/mlm
Spiked Amount 300.000		Recovery =	103.46% ✓ MT
Target Compounds			
1) HM Florida PRO	3.70	224513331	3947.454 ug/ml

93% ✓
MT

(f)=RT Delta > 1/2 Window (m)=manual int.

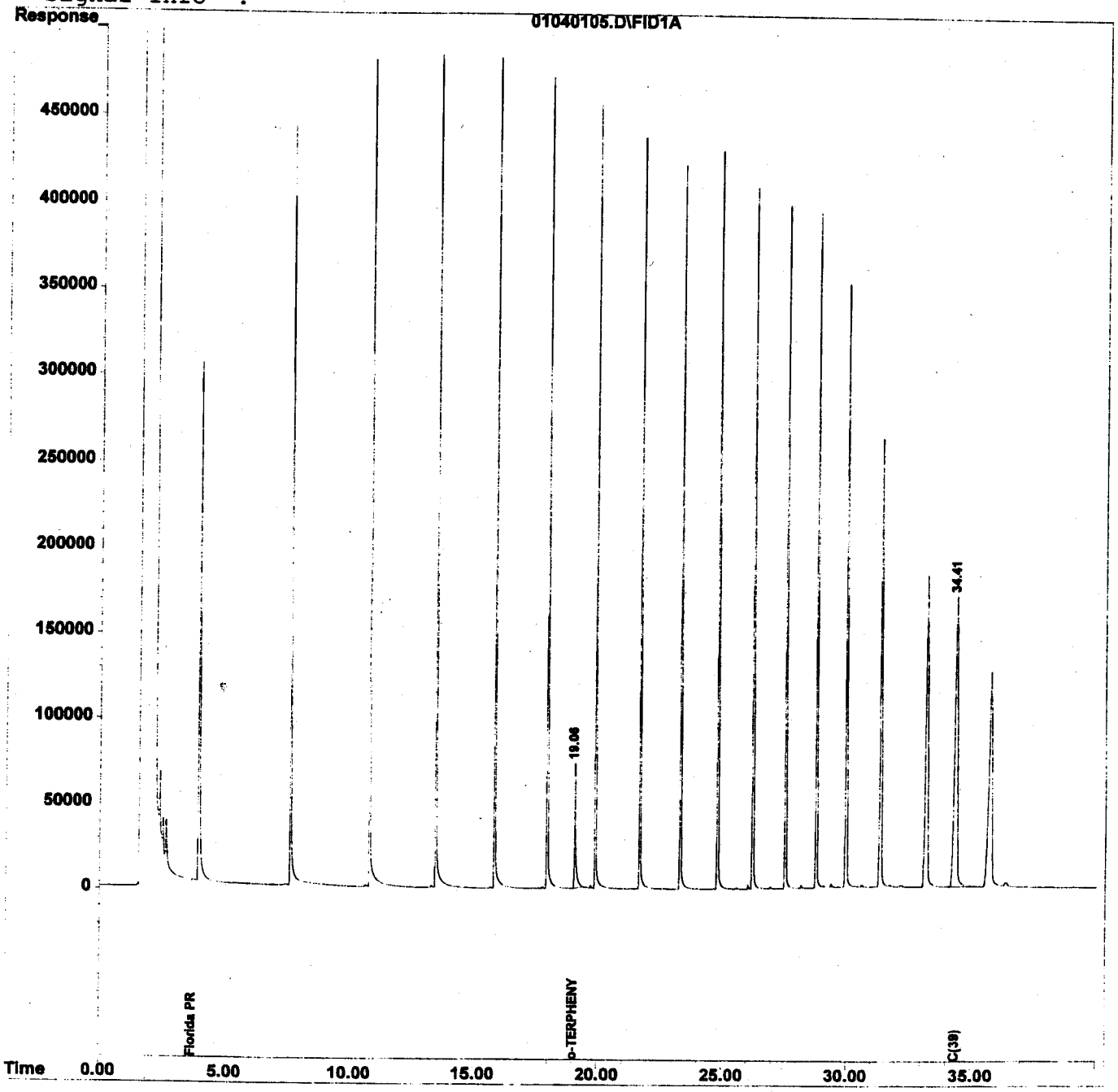
Quantitation Report

Data File : C:\HPCHEM\2\DATA\010401\01040105.D
Acq On : 4 Jan 2001 14:03
Sample : 4250 PHS PRO CCV
Misc :
IntFile : events.e
Quant Time: Jan 4 15:53 2001 Quant Results File: PRO1208.RES

Vial: 5
Operator: MT
Inst : DRO-B
Multiplr: 1.00

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\010401\01040101.D Vial: 1
Acq On : 4 Jan 2001 10:46 Operator: MT
Sample : 4250 PHS PRO CCV Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 4 11:38 2001 Quant Results File: PRO1208.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.15	2816878	61.007 ug/mlm
Spiked Amount 50.000		Recovery =	122.01% MT
3) SC C(39)	34.56	13966684	317.926 ug/mlm
Spiked Amount 300.000		Recovery =	105.98% MT
Target Compounds			
1) HM Florida PRO	3.70	230794632	4057.893 ug/ml

95%
MT

(f)=RT Delta > 1/2 Window (m)=manual int.

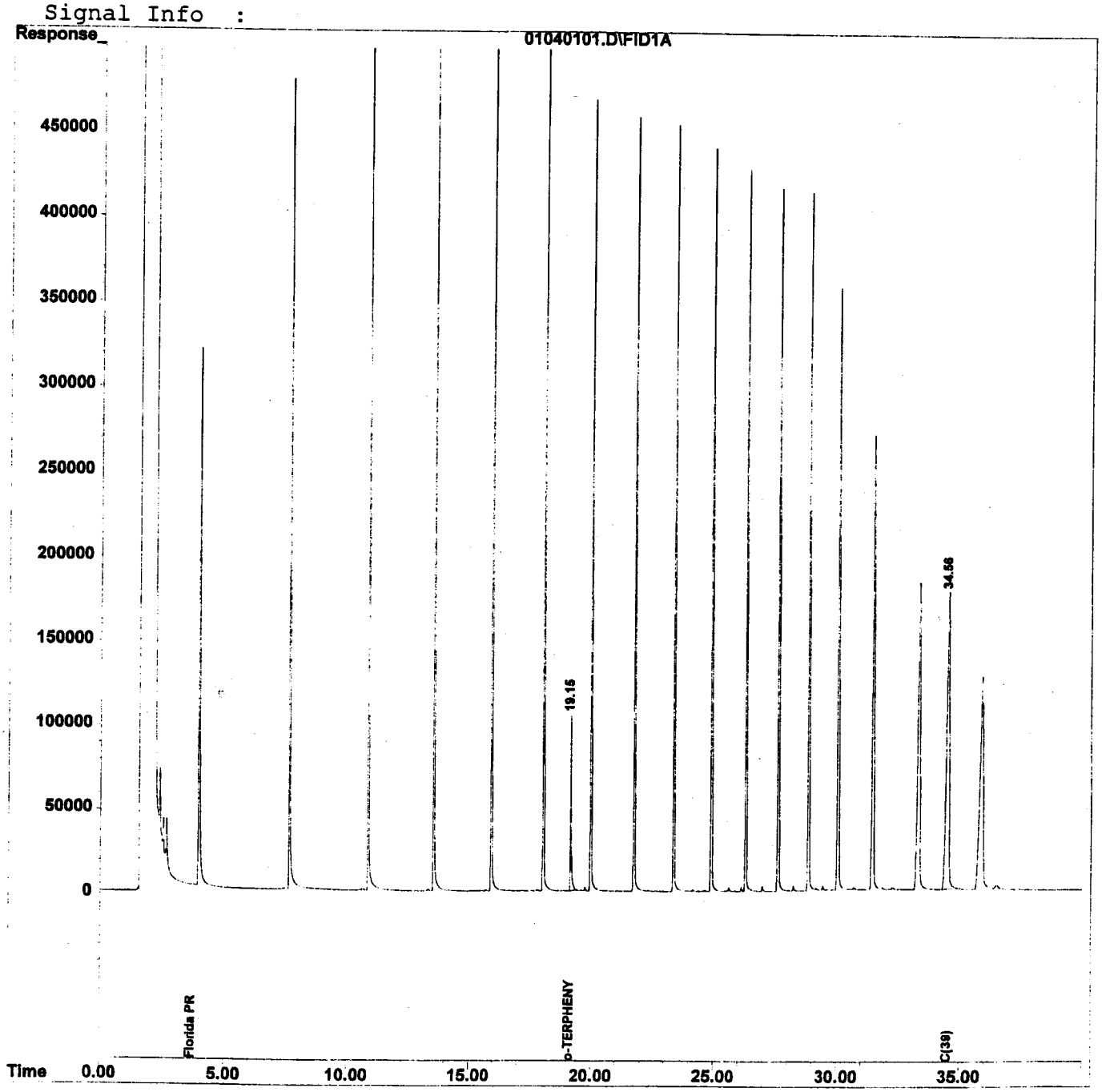
Quantitation Report

Data File : C:\HPCHEM\2\DATA\010401\01040101.D
Acq On : 4 Jan 2001 10:46
Sample : 4250 PHS PRO CCV
Misc :
IntFile : events.e
Quant Time: Jan 4 11:38 2001 Quant Results File: PRO1208.RES

Vial: 1
Operator: MT
Inst : DRO-B
Multiplr: 1.00

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\010301\01030112.D
Acq On : 3 Jan 2001 21:54
Sample : 4250 PHS PRO CCV
Misc :
IntFile : events.e
Quant Time: Jan 4 10:15 2001 Quant Results File: PRO1208.RES

Vial: 12
Operator: MT
Inst : DRO-B
Multiplr: 1.00

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.11	2518212	54.539 µg/mlm
Spiked Amount 50.000		Recovery =	109.08% MT
3) SC C(39)	34.52	13592588	309.410 ug/mlm
Spiked Amount 300.000		Recovery =	103.14% MT
Target Compounds			
1) HM Florida PRO	3.70	232654753	4090.598 ug/ml

96% MT

(f)=RT Delta > 1/2 Window (m)=manual int.

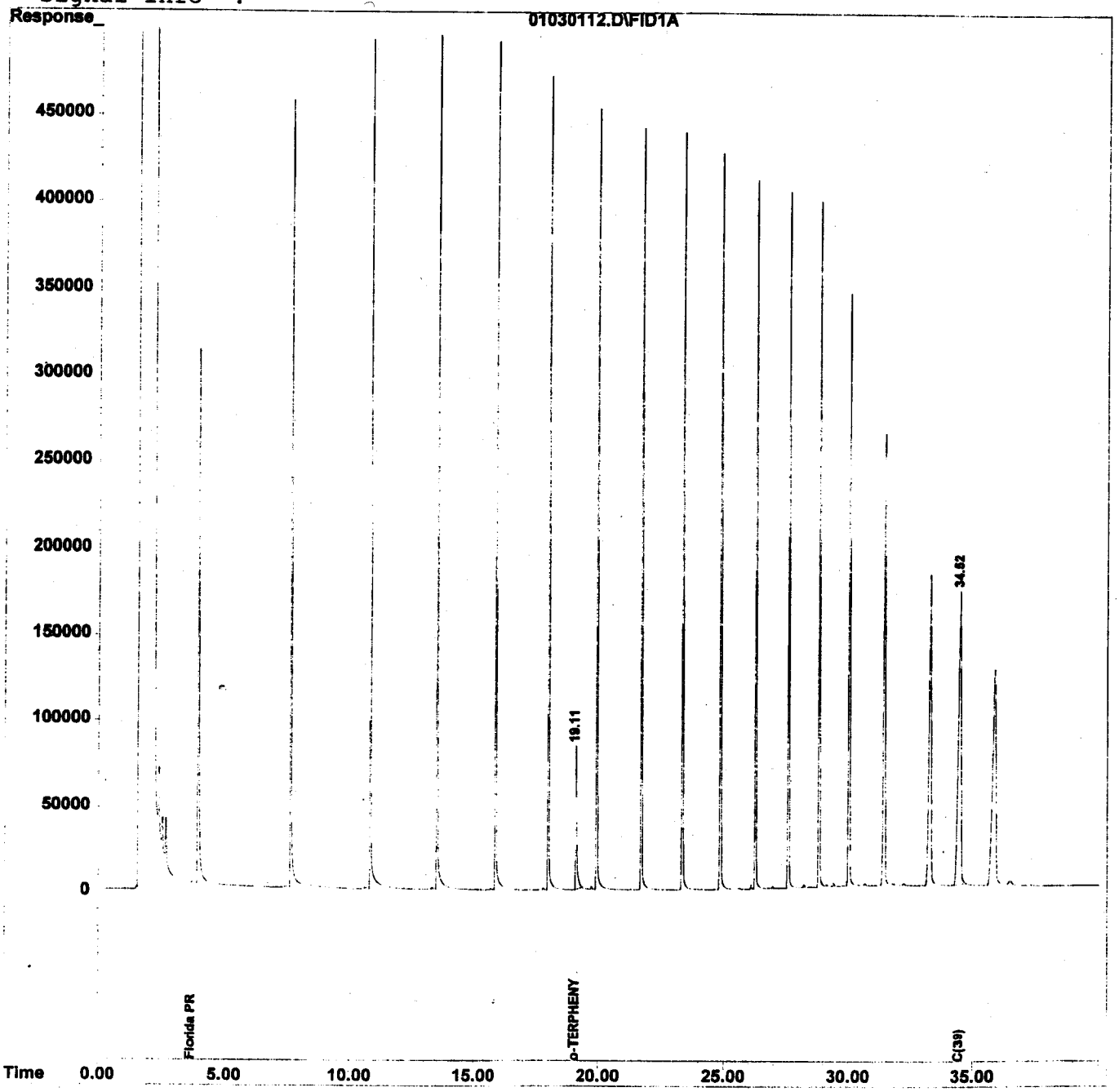
Quantitation Report

Data File : C:\HPCHEM\2\DATA\010301\01030112.D
Acq On : 3 Jan 2001 21:54
Sample : 4250 PHS PRO CCV
Misc :
IntFile : events.e
Quant Time: Jan 4 10:15 2001 Quant Results File: PRO1208.RES

Vial: 12
Operator: MT
Inst : DRO-B
Multiplr: 1.00

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\010301\01030101.D
Acq On : 3 Jan 2001 12:24
Sample : 4250 PHS PRO CCV
Misc :
IntFile : events.e
Quant Time: Jan 3 13:23 2001 Quant Results File: PRO1208.RES

Vial: 1
Operator: MT
Inst : DRO-B
Multiplr: 1.00

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.12	2709531	58.682 ug/mlm
Spiked Amount 50.000		Recovery =	117.36% ✓MT
3) SC C(39)	34.54	14637432	333.194 ug/mlm
Spiked Amount 300.000		Recovery =	111.06% ✓MT
Target Compounds			
1) HM Florida PRO	3.70	248213485	4364.156 ug/ml

103% ✓
MT

(f)=RT Delta > 1/2 Window (m)=manual int.

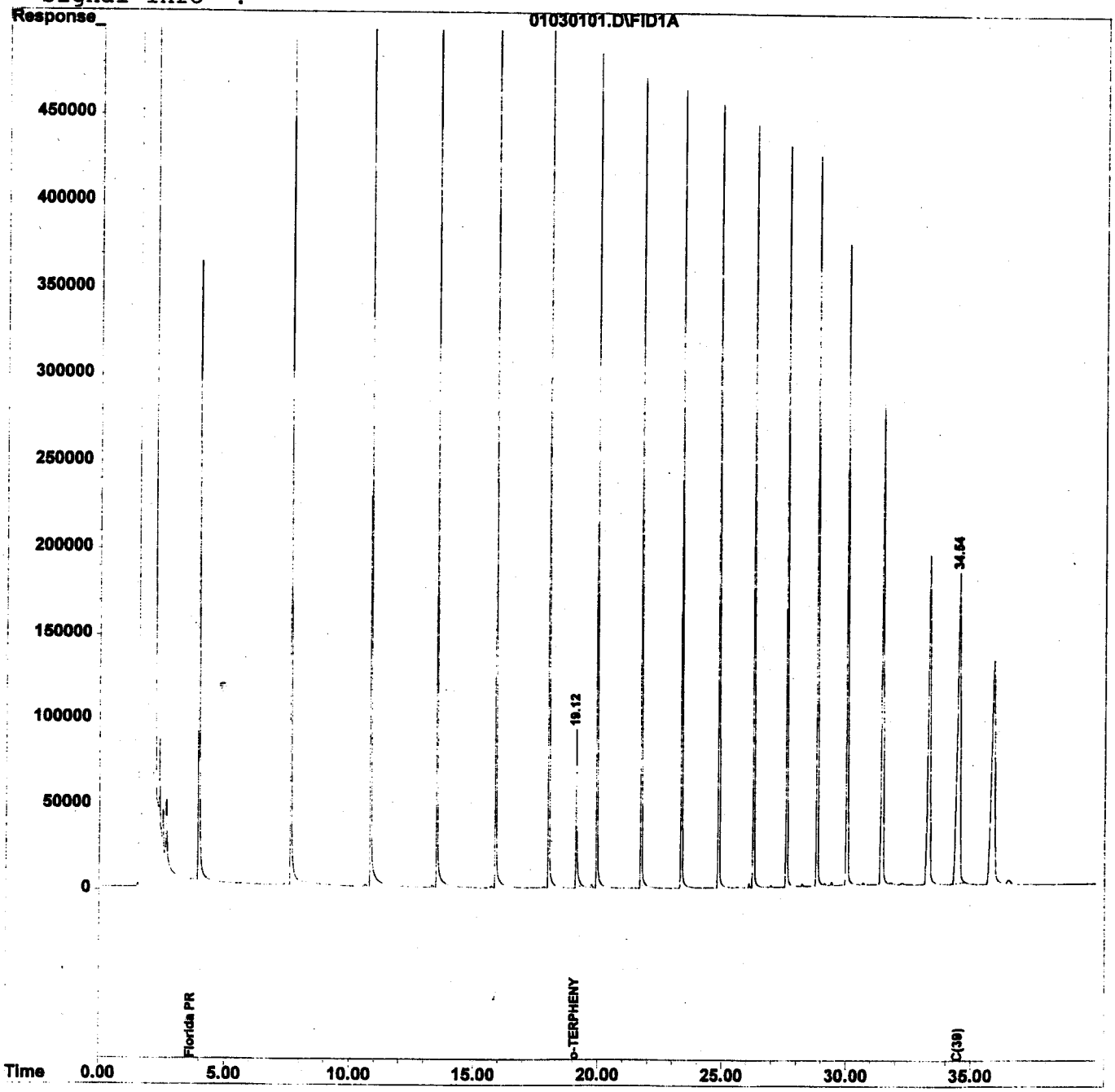
Quantitation Report

Data File : C:\HPCHEM\2\DATA\010301\01030101.D
Acq On : 3 Jan 2001 12:24
Sample : 4250 PHS PRO CCV
Misc :
IntFile : events.e
Quant Time: Jan 3 13:23 2001 Quant Results File: PRO1208.RES

Vial: 1
Operator: MT
Inst : DRO-B
Multiplr: 1.00

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\010201\01020118.D
Acq On : 3 Jan 2001 1:09
Sample : 4250 PHS PRO CCV
Misc :
IntFile : events.e
Quant Time: Jan 3 11:10 2001 Quant Results File: PRO1208.RES

Vial: 13
Operator: MT
Inst : DRO-B
Multiplr: 1.00

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.12	2492388	53.979 µg/mlm
Spiked Amount 50.000		Recovery =	107.96% ✓MT
3) SC C(39)	34.55	13230033	301.157 ug/mlm
Spiked Amount 300.000		Recovery =	100.39% ✓MT
Target Compounds			
1) HM Florida PRO	3.70	224086525	3939.950 ug/ml

93% ✓
MT

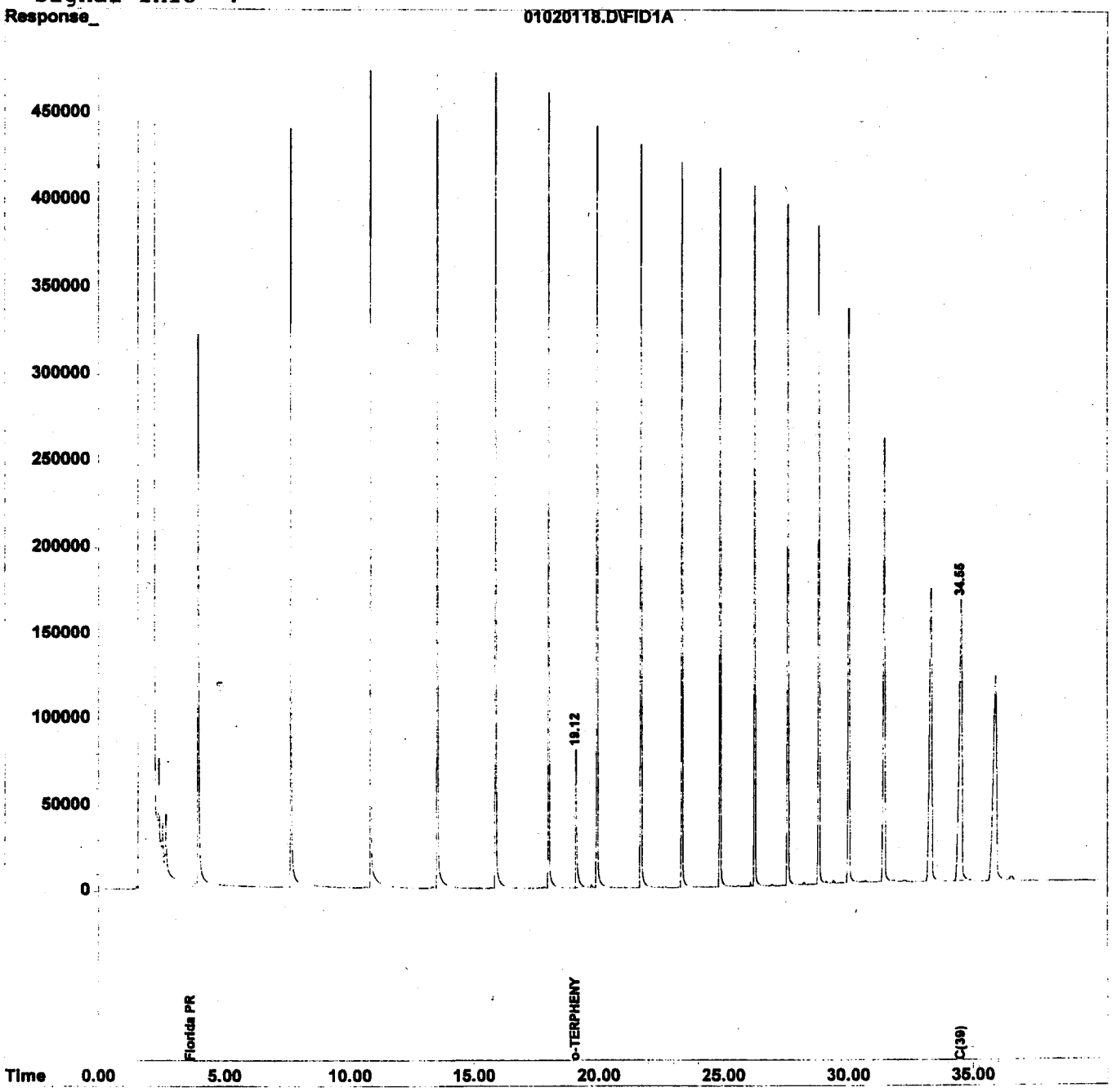
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\010201\01020118.D Vial: 13
Acq On : 3 Jan 2001 1:09 Operator: MT
Sample : 4250 PHS PRO CCV Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 3 11:10 2001 Quant Results File: PRO1208.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\010201\01020113.D
Acq On : 2 Jan 2001 21:06
Sample : 4250 PHS PRO CCV
Misc :
IntFile : events.e
Quant Time: Jan 3 11:07 2001 Quant Results File: PRO1208.RES

Vial: 13
Operator: MT
Inst : DRO-B
Multiplr: 1.00

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.11	2652442	57.446 ug/mlm
Spiked Amount 50.000		Recovery =	114.89% MT
3) SC C(39)	34.53	14183506	322.861 ug/mlm
Spiked Amount 300.000		Recovery =	107.62% MT
Target Compounds			
1) HM Florida PRO	3.70	238184187	4187.819 ug/ml

99%
MT

(f)=RT Delta > 1/2 Window (m)=manual int.

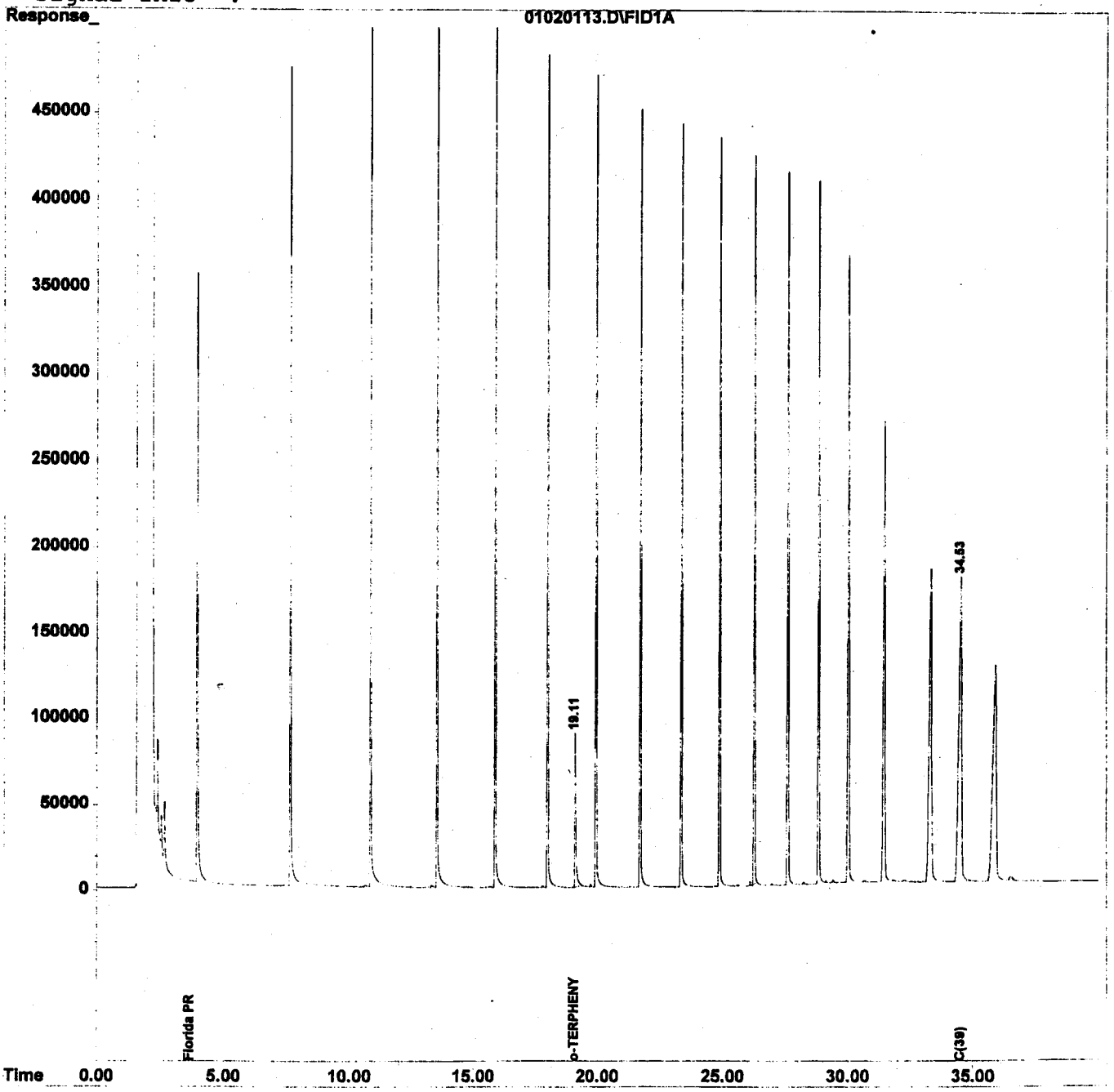
Quantitation Report

Data File : C:\HPCHEM\2\DATA\010201\01020113.D
Acq On : 2 Jan 2001 21:06
Sample : 4250 PHS PRO CCV
Misc :
IntFile : events.e
Quant Time: Jan 3 11:07 2001 Quant Results File: PRO1208.RES

Vial: 13
Operator: MT
Inst : DRO-B
Multiplr: 1.00

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\010201\01020101.D
Acq On : 2 Jan 2001 10:43
Sample : 4250 PHS PRO CCV
Misc :
IntFile : events.e
Quant Time: Jan 2 11:40 2001 Quant Results File: PRO1208.RES

Vial: 1
Operator: MT
Inst : DRO-B
Multiplr: 1.00

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.12	2601174	56.335 µg/mlm
Spiked Amount 50.000		Recovery =	112.67% ✓MT
3) SC C(39)	34.53	14445558	328.826 ug/mlm
Spiked Amount 300.000		Recovery =	109.61% ✓MT
Target Compounds			
1) HM Florida PRO	3.70	240064282	4220.875 ug/ml

99% ✓
MT

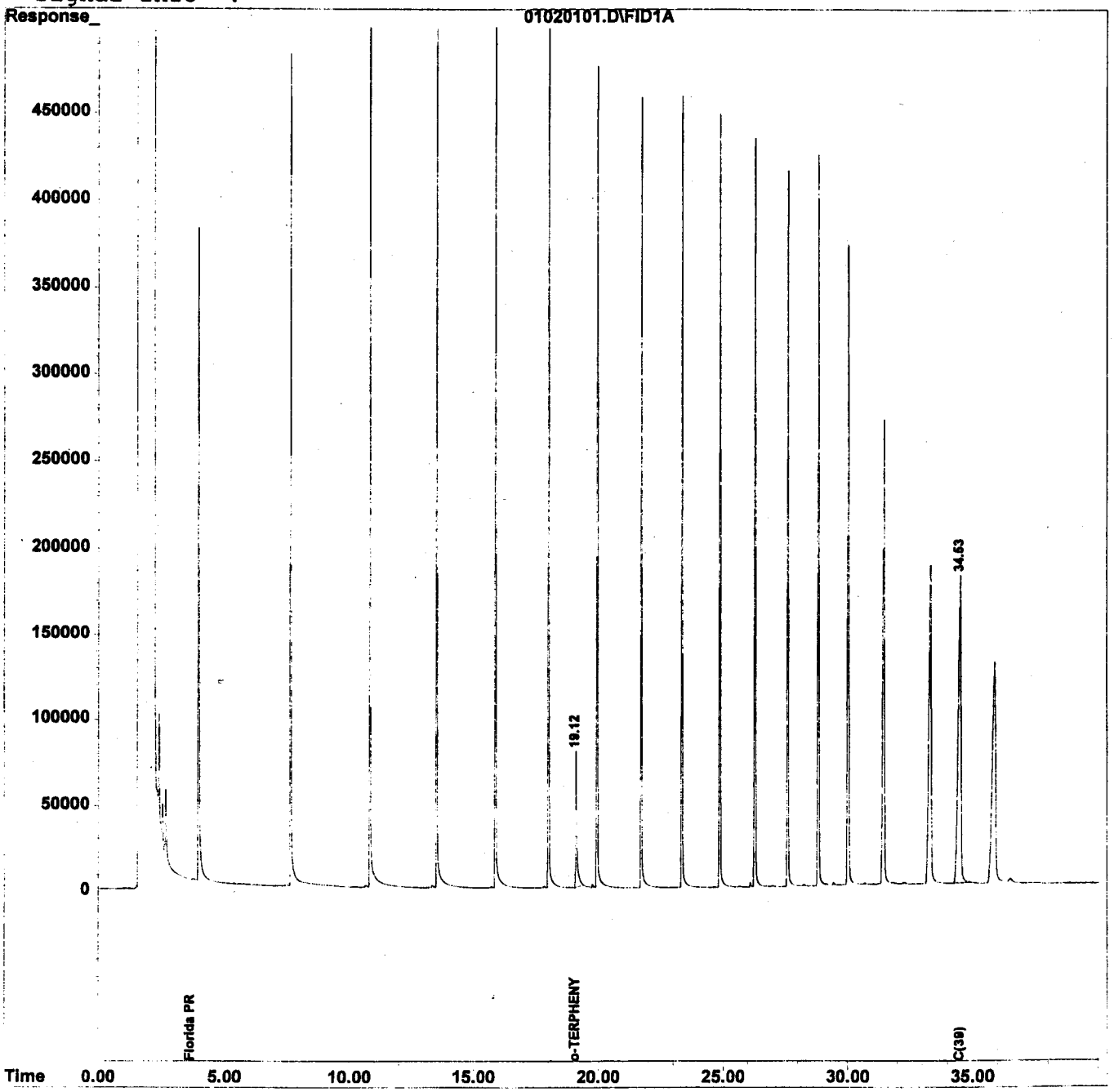
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\010201\01020101.D Vial: 1
Acq On : 2 Jan 2001 10:43 Operator: MT
Sample : 4250 PHS PRO CCV Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 2 11:40 2001 Quant Results File: PRO1208.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :



Accura Analytical Laboratory, Inc.

MS/MSD Report

Sample ID:	AC05540 MS/MSD	**Date Acquired:**	1/3/01
Operator:	MT	**Instrument ID:**	DRO-B
Data File:	01030103+04	**Vial #**	3+4
Method:	FL PRO	**Matrix:**	Water

Compound	Expected Rec. (ppm)	MS Rec. (ppm)	MS % Recovery	MSD Rec. (ppm)	MSD % Recovery	Recovery Limits (%)	MS Pass/ Fail	MSD Pass/ Fail	%RPD	%RPD Limit	%RPD Pass/ Fail
PRO	4.25	0.728	17%	2.289	54%	41 - 101	Fail	Pass	103%	< 20	Fail

Surrogates	Expected Rec. (ppm)	MS Rec. (ppm)	MS % Recovery	MSD Rec. (ppm)	MSD % Recovery	Recovery Limits (%)*	MS Pass/ Fail	MSD Pass/ Fail
O-Terphenyl	50	18.57	37%	21.44	43%	82 - 142	Fail	Fail
C(39)	300	15.96	5%	4.12	1%	42 - 193	Fail	Fail

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\010301\01030103.D
Acq On : 3 Jan 2001 14:34
Sample : AC05540 MS 5X
Misc : 26563 1000mL
IntFile : events.e
Quant Time: Jan 4 10:09 2001 Quant Results File: PRO1208.RES

Vial: 3
Operator: MT
Inst : DRO-B
Multiplr: 1.00

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.11	171494	3.714 ug/mlm
Spiked Amount 50.000		Recovery =	7.43% x5 = 37 x MT
3) SC C(39)	34.39	140243	3.192 ug/mlm
Spiked Amount 300.000		Recovery =	1.06% x5 = 5.3 x MT
Target Compounds			
1) HM Florida PRO	3.70	180362726	3171.186 ug/ml ~~10~~ MT 1.04.00

3025.585
145.601 / 1000 =
0.146 x 5 =
0.728 / 4.25 x 100% =
17%
MT

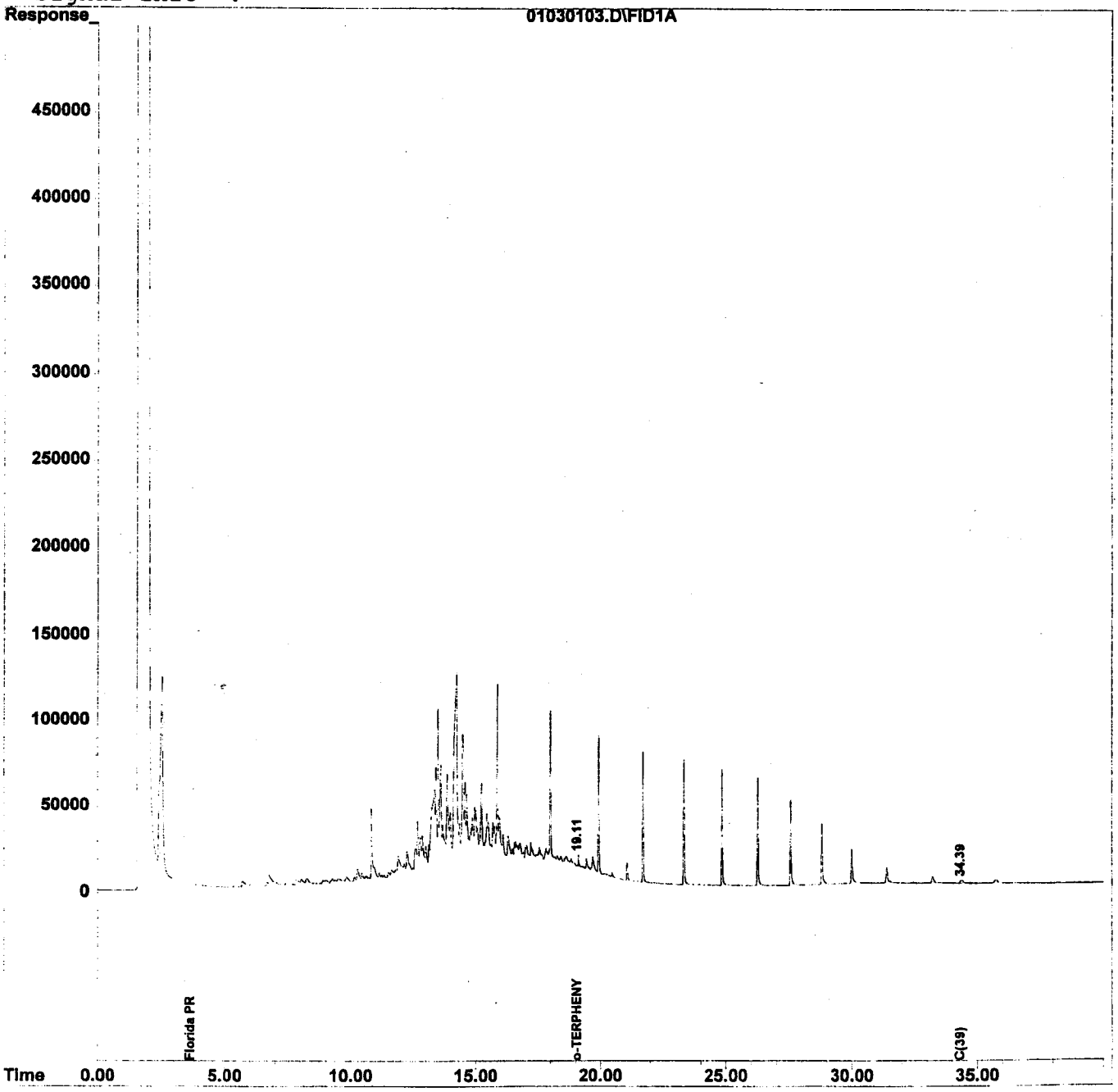
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\010301\01030103.D Vial: 3
Acq On : 3 Jan 2001 14:34 Operator: MT
Sample : AC05540 MS 5X Inst : DRO-B
Misc : 26563 1000mL Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 4 10:09 2001 Quant Results File: PRO1208.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\010301\01030104.D Vial: 4
Acq On : 3 Jan 2001 15:23 Operator: MT
Sample : AC05540 MSD 5X Inst : DRO-B
Misc : 26563 1000mL Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 4 10:09 2001 Quant Results File: PRO1208.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.08	197996	4.288 ug/mlm
Spiked Amount 50.000		Recovery =	8.58% x5 = 43 x MT
3) SC C(39)	34.35	36210	0.824 ug/mlm
Spiked Amount 300.000		Recovery =	0.27% x5 = 1.4 x MT
Target Compounds			
1) HM Florida PRO	3.70	198096693	3482.989 ug/ml

- 3025.585

457.989 /1000 =

0.458 x 5 =

2.289 /4.25 x 100% =

54%

MT

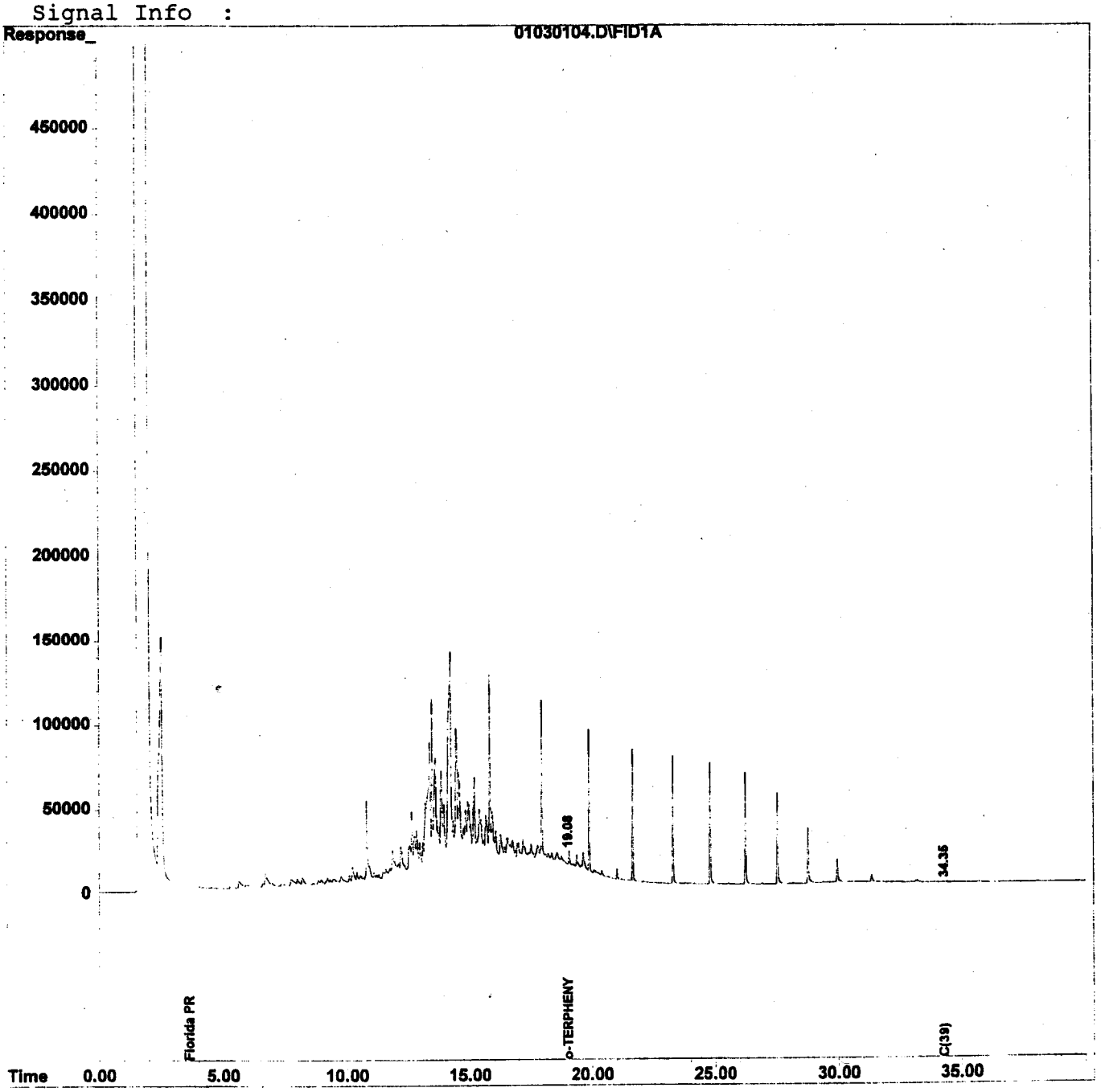
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\010301\01030104.D Vial: 4
Acq On : 3 Jan 2001 15:23 Operator: MT
Sample : AC05540 MSD 5X Inst : DRO-B
Misc : 26563 1000mL Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 4 10:09 2001 Quant Results File: PRO1208.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :



Accura Analytical Laboratory, Inc.

LCS Report

Sample ID:	QFW1226002	**Date Acquired:**	1/4/01
Operator:	MT	**Instrument ID:**	DRO-B
Data File:	01040104	**AS POS.#**	4
Method:	FLPRO	**Matrix:**	WATER

Compound	Expected Rec. (ppm)	Actual Rec. (ppm)	Percent Recovery	Recovery Limits (%)	Pass/ Fail
PRO	4.25	2.061	48 %	55 - 118	Fail

Surrogates	Expected Rec. (ppm)	Actual Rec. (ppm)	Percent Recovery	Recovery Limits (%)	Pass/ Fail
ortho-terphenyl	50	37.65	75%	82 - 142	Fail
C(39)	300	5.88	2%	42 - 193	Fail

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\010401\01040104.D Vial: 4
Acq On : 4 Jan 2001 13:13 Operator: MT
Sample : QFW1226002 Inst : DRO-B
Misc : PROW LCS Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 4 14:28 2001 Quant Results File: PRO1208.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.07	1738247	37.646 ug/mlm
Spiked Amount 50.000		Recovery =	75.29% x MT
3) SC C(39)	34.30	258437	5.883 ug/mlm
Spiked Amount 300.000		Recovery =	1.96% x MT
Target Compounds			
1) HM Florida PRO	3.70	117227422	2061.124 ug/ml /1000 =

2.061 /4.25 x 100% =

48% x

MT

(f)=RT Delta > 1/2 Window (m)=manual int.

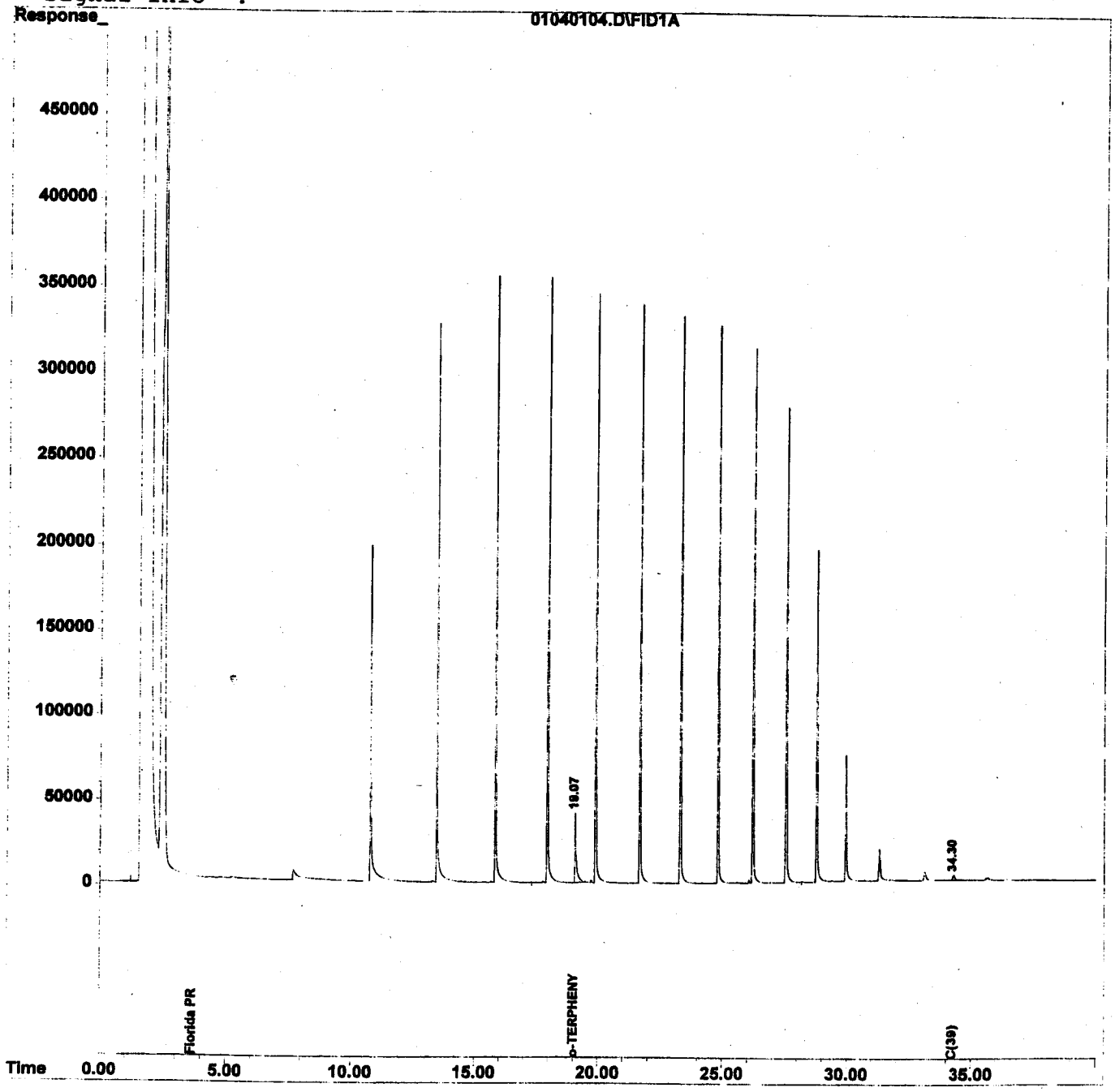
Quantitation Report

Data File : C:\HPCHEM\2\DATA\010401\01040104.D
Acq On : 4 Jan 2001 13:13
Sample : QFW1226002
Misc : PROW LCS
IntFile : events.e
Quant Time: Jan 4 14:28 2001 Quant Results File: PRO1208.RES

Vial: 4
Operator: MT
Inst : DRO-B
Multiplr: 1.00

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :



SVO GC CALIBRATION CHECKLIST
FL-PRO

DATE / INSTRUMENT: 12-08-00 / DRO-B	METHOD: FL-PRO
MATRIX: Soil / Water	

Are all standards within expiration dates for both stock and serial standards?	Y	N	NA
Is the Initial Calibration compliant with the method specifications?	Y	N	NA
Were daily retention time windows updated?	Y	N	NA
Is the runlog completely filled out (including review signature/date)?	Y	N	NA
Are all mistakes single lined, initialled, and dated?	Y	N	NA

Analyst: MT		Reviewer: YGK	
Date: 12-11-00	Time: 18:15	Date: 12/20/00	Time: 10:50

Sequence Date: 12-08-00
Analyst Initials: MT
Run Method: PRO0901
Quant Method: ↓

	Sample		Blank/LCS	
Water OTP/C(39) Limits	82-142	42-193	82-142	42-193
Soil OTP/C(39) Limits	62-109	60-118	62-109	60-118

Compound: FL PRO
Date: 9-01-00

Vial Position	AAL Sample I.D. #	Extraction Date	Matrix	Dilution Factor	OTP/C(39) Recovery		PRO Spike Recovery	AAL Std. I.D. #	Status	Comments
1	Solv Blank	NA	$MeCl_2$	1X	NA	NA	NA		✓	
2	850 PHS PRO ICAL	↓	Std.	↓	↓	↓	↓	005V226	✓	
3	2550	↓	↓	↓	↓	↓	↓	005V227	✓	
4	4250	↓	↓	↓	↓	↓	↓	005V228	✓	
5	5950	↓	↓	↓	↓	↓	↓	005V229	✓	
6	~~8500~~ 7692 MT 11-14-00	↓	↓	↓	↓	↓	↓	005V230	✓	
7	Solv Blank	↓	$MeCl_2$	↓	↓	↓	↓		✓	
8	4250 PHS PRO ICV	↓	Std.	↓	MT 11-15-00 ~~89~~ 82	MT 11-15-00 ~~85~~ 70	MT 11-15-00 ~~114~~ 82	005V231	✓	
9	QFW1205001	12-05-00	W	↓	101	5.1	NA		✓	<½RDL
10	QFW1205002	↓	↓	↓	88	5.1	63		✓	
11	04004 MS	↓	↓	↓	75	3.4	60		✓	
12	04004 MSD	↓	↓	↓	85	4.7	60		✓	
13	03938	↓	↓	↓	93	14	NA		✓	
14	04002	↓	↓	↓	84	7.1	↓		✓	
15	04003	↓	↓	↓	65	5.1	↓		✓	
16	04004	↓	↓	↓	74	6.1	↓		✓	
17	04005	↓	↓	↓	66	3.2	↓		✓	
18	04006	↓	↓	↓	72	8.0	↓		✓	
19	4250 PHS PRO CCV	NA	Std.	↓	79	87	79	005V231	✓	
20	Solv Blank	↓	$MeCl_2$	↓	NA	NA	NA		✓	
21	04007	12-05-00	W	↓	37	6.1	↓		✓	
22	04008	↓	↓	↓	89	10	↓		✓	

Initials / Date: MT 12-11-00

ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

Standard Name: FL PRO ICAL
Lab Standard ID# 00SV226 - 00SV230

Date Made: 12-08-00
Expire Date: 6-08-01
Matrix: $MeCl_2$

Prepared By: MT

Standard	Lot/Lab ID#	Conc.	Amount Used	Final Conc.
FL TRPH Std.	S00A117, S00A197, S00A198	500 ppm	100 µl	850 PHS
			300	2550
			500	4250
			700	5950
			1000	~~8500~~ 8500
				50 ppm
OTP	S00A073-2	10,000 ppm	5 µl added	300 ppm
C(39)	S00A187	3000 ppm	100 µl added	—
$MeCl_2$	EX00114	—	*	
* All Stds. brought up to a final vol. = 1 mL				
	MT 12-08-00			

Standard Name: FL PRO CCV
Lab Standard ID# 00SV231

Date Made: 12-08-00
Expire Date: 6-08-01
Matrix: $MeCl_2$

Prepared By: MT

Standard	Lot/Lab ID#	Conc.	Amount Used	Final Conc.
FL TRPH Std.	S00A117	500 ppm	500 µl	4250 PHS
OTP	S00A073-2	10,000	5	50 ppm
C(39)	S00A092-8	3000	100	300 ppm
$MeCl_2$	EX00114	—	395	—
	MT 12-08-00			

STPRLGFR.XLS

INITIAL CALIBRATION
5 POINT DRO

DATE:	12/8/00			
METHOD:	FL PRO			
INSTRUMENT:	DRO-B ; FRONT COLUMN			
ANALYST:	MT			
ICAL ID:	PRO1208			
CONCENTRATION (PPM)			**AREA**	**Rf**
850			62182797	73156.2
2550			138696300	54390.7
4250			225396394	53034.4
5950			320089278	53796.5
7692			384596146	49999.5
AVERAGE Rf:			56875.5	
% RSD:			16.3	

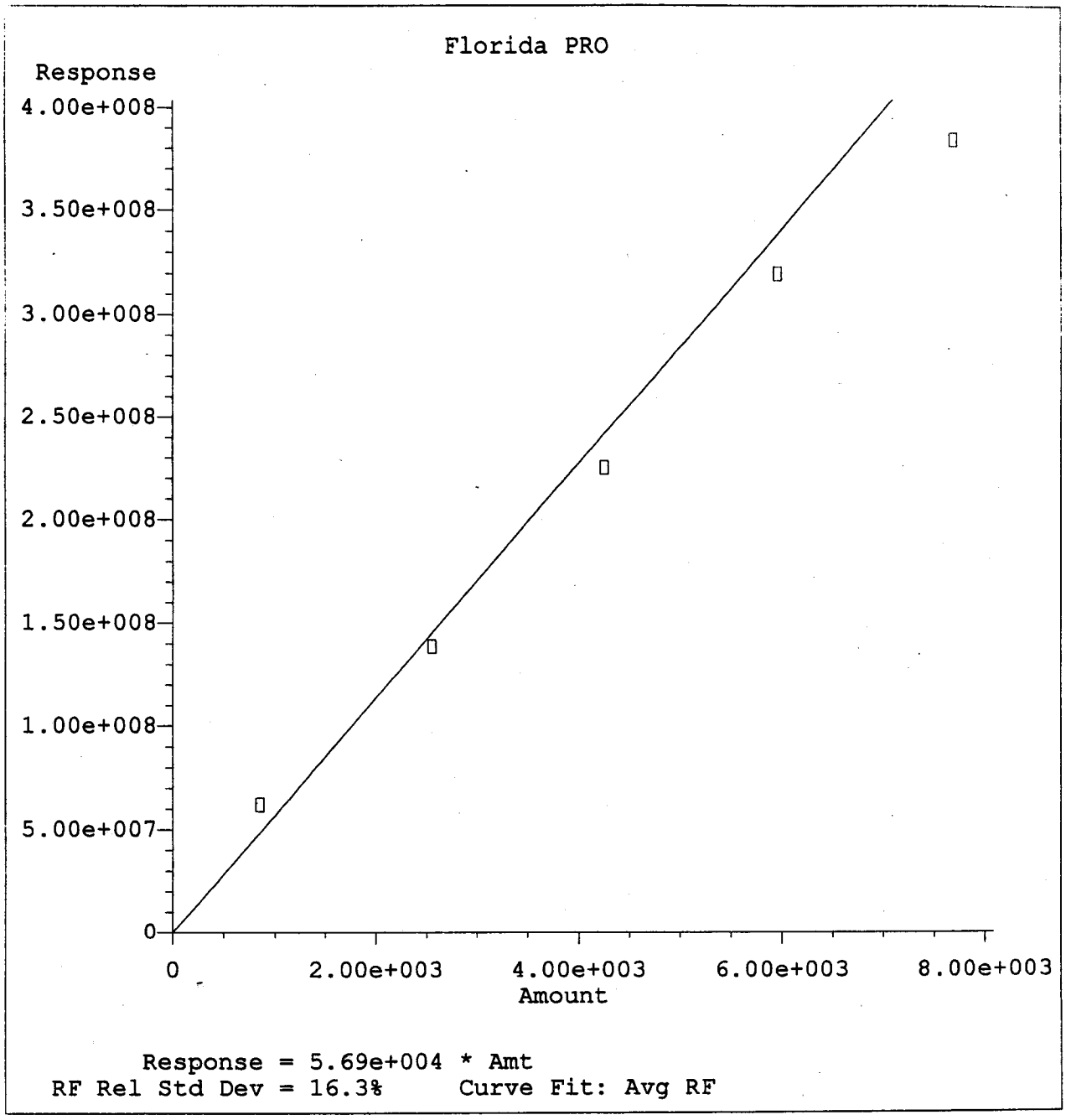
Response Factor Report DRO-B

Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Mon Dec 11 16:05:37 2000

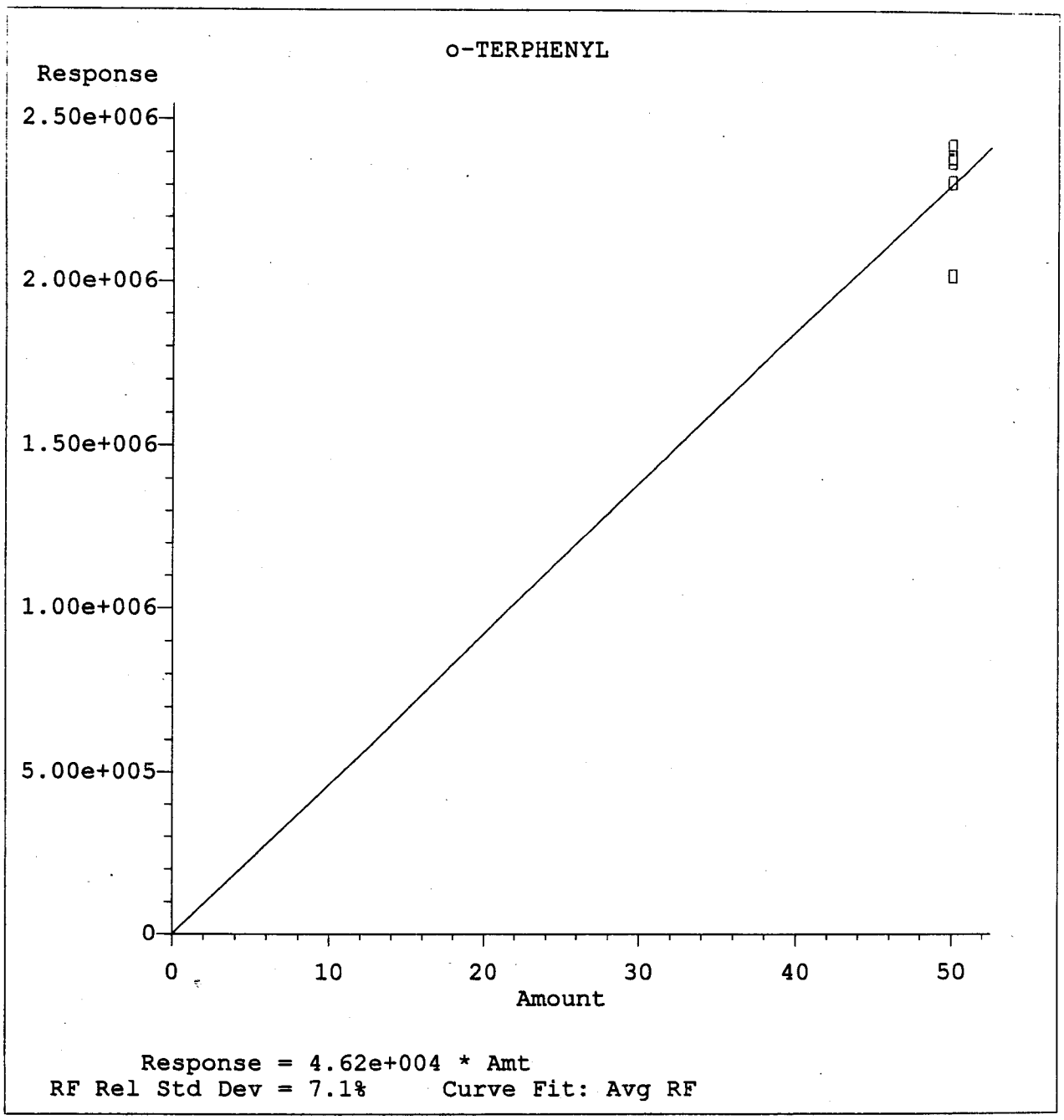
Calibration Files
1 =12080002.D 2 =12080003.D 3 =12080004.D
4 =12080005.D 5 =12080006.D

		Compound	1	2	3	4	5	Avg	%RSD
1)	HM	Florida PRO	7.316	5.439	5.303	5.380	5.000	5.688 E4	16.28
2)	SC	o-TERPHENYL	4.634	4.761	4.788	4.852	4.052	4.617 E4	7.06
3)	SC	C(39)	4.379	4.697	4.519	4.375	3.995	4.393 E4	5.89

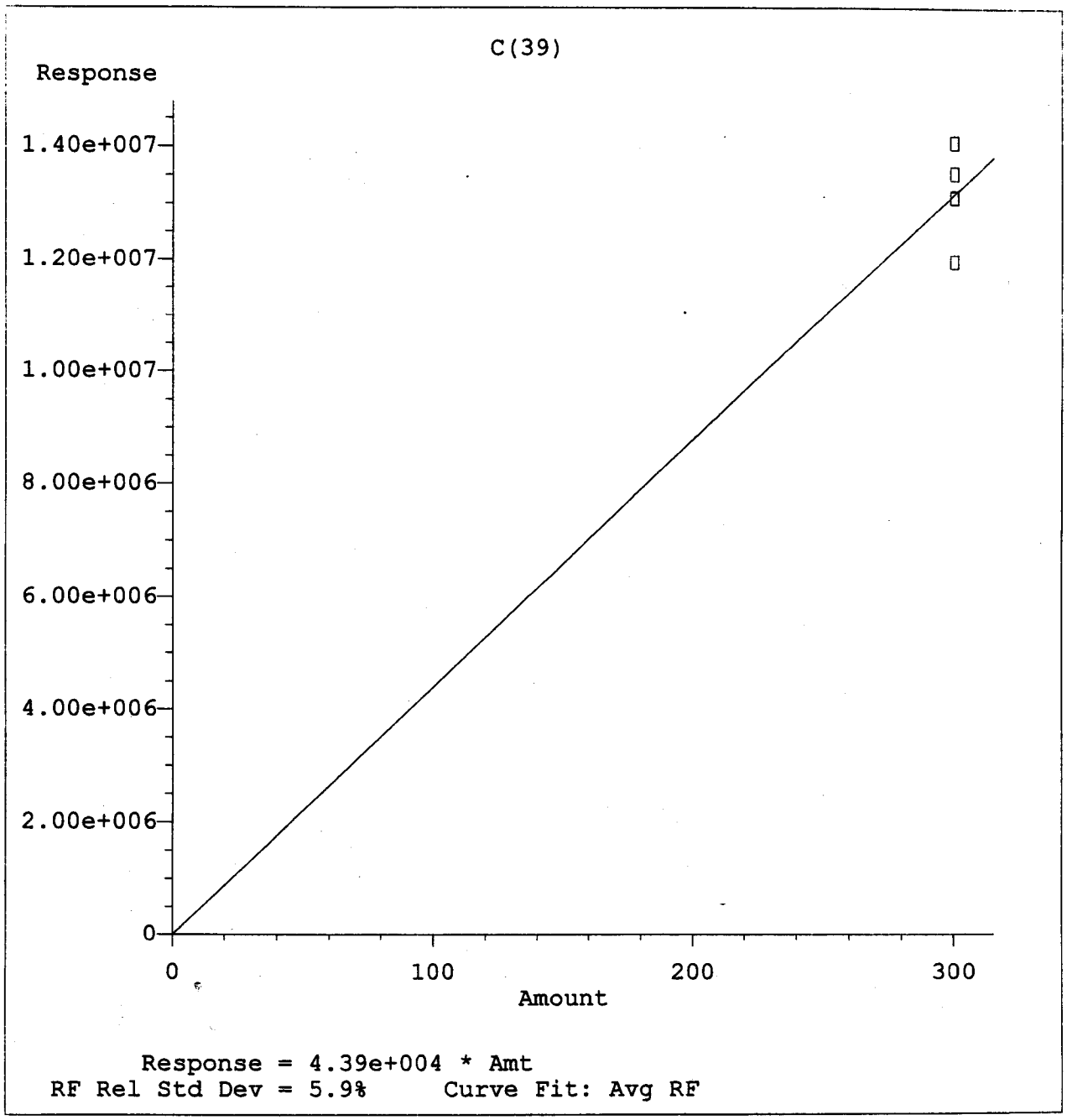
(#) = Out of Range



Method Name: C:\HPCHEM\2\METHODS\PRO1208.M
Calibration Table Last Updated: Mon Dec 18 12:09:37 2000



Method Name: C:\HPCHEM\2\METHODS\PRO1208.M
Calibration Table Last Updated: Fri Dec 08 17:06:58 2000



Method Name: C:\HPCHEM\2\METHODS\PRO1208.M
Calibration Table Last Updated: Fri Dec 08 17:06:58 2000

DATA ANALYSIS PARAMETERS

Method Name: C:\HPCHEM\2\METHODS\PRO1208.M

Percent Report Settings

Sort By: Signal

Output Destination
    Screen: No
    Printer: Yes
    File: No

Integration Events: AutoIntegrate

Generate Report During Run Method: No

Signal Correlation Window: 0.020

Quantitative Report Settings

Report Type: Summary

Output Destination
    Screen: No
    Printer: Yes
    File: No

Generate Report During Run Method: Yes

FLORIDA PRO BY GC; INST. #2
Calibration Last Updated: Mon Dec 11 16:05:37 2000

Reference Window: 2.00 Minutes
Non-Reference Window: 0.05 Minutes
Correlation Window: 0.10 minutes
Default Multiplier: 1.00
Default Sample Concentration: 0.00

Compound Information

---

1) Florida PRO ( )
Ret. Time 3.70 min., Extract & Integrate from 3.70 to 38.00 min.

Lvl	ID	Conc (ug/ml)	Response
1		850.000	62182797
2		2550.000	138696300
3		4250.000	225396394
4		5950.000	320089278
5		7692.000	384596146

Curve Fit: Avg. RF

---

2) o-TERPHENYL ( )
Ret. Time 19.24 min., Extract & Integrate from 19.14 to 19.34 min.

Lvl	ID	Conc (ug/ml)	Response
1		50.000	2316891
2		50.000	2380453
3		50.000	2394194
4		50.000	2425862
5		50.000	2025865

Curve Fit: Avg. RF

---

3) C(39) ( )
Ret. Time 34.72 min., Extract & Integrate from 34.22 to 35.22 min.

Lvl	ID	Conc (ug/ml)	Response
1		300.000	13137951
2		300.000	14092023
3		300.000	13556352
4		300.000	13125618
5		300.000	11984023

Curve Fit: Avg. RF

END OF DATA ANALYSIS PARAMETERS

Mon Dec 18 12:17:01 2000

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\120800\12080002.D Vial: 2
Acq On : 8 Dec 2000 13:11 Operator: MT
Sample : 850 PHS PRO ICAL Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Dec 8 15:16 2000 Quant Results File: PRO0901.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0901.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Mon Nov 27 15:46:57 2000
Response via : Initial Calibration
DataAcq Meth : PRO0901.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.19f	2316891	52.497 ug/mlm
Spiked Amount 50.000		Recovery =	104.99%
3) SC C(39)	34.71	13137951	281.879 ug/mlm
Spiked Amount 300.000		Recovery =	93.96%
Target Compounds			
1) HM Florida PRO	3.70	62182797	1526.199 ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

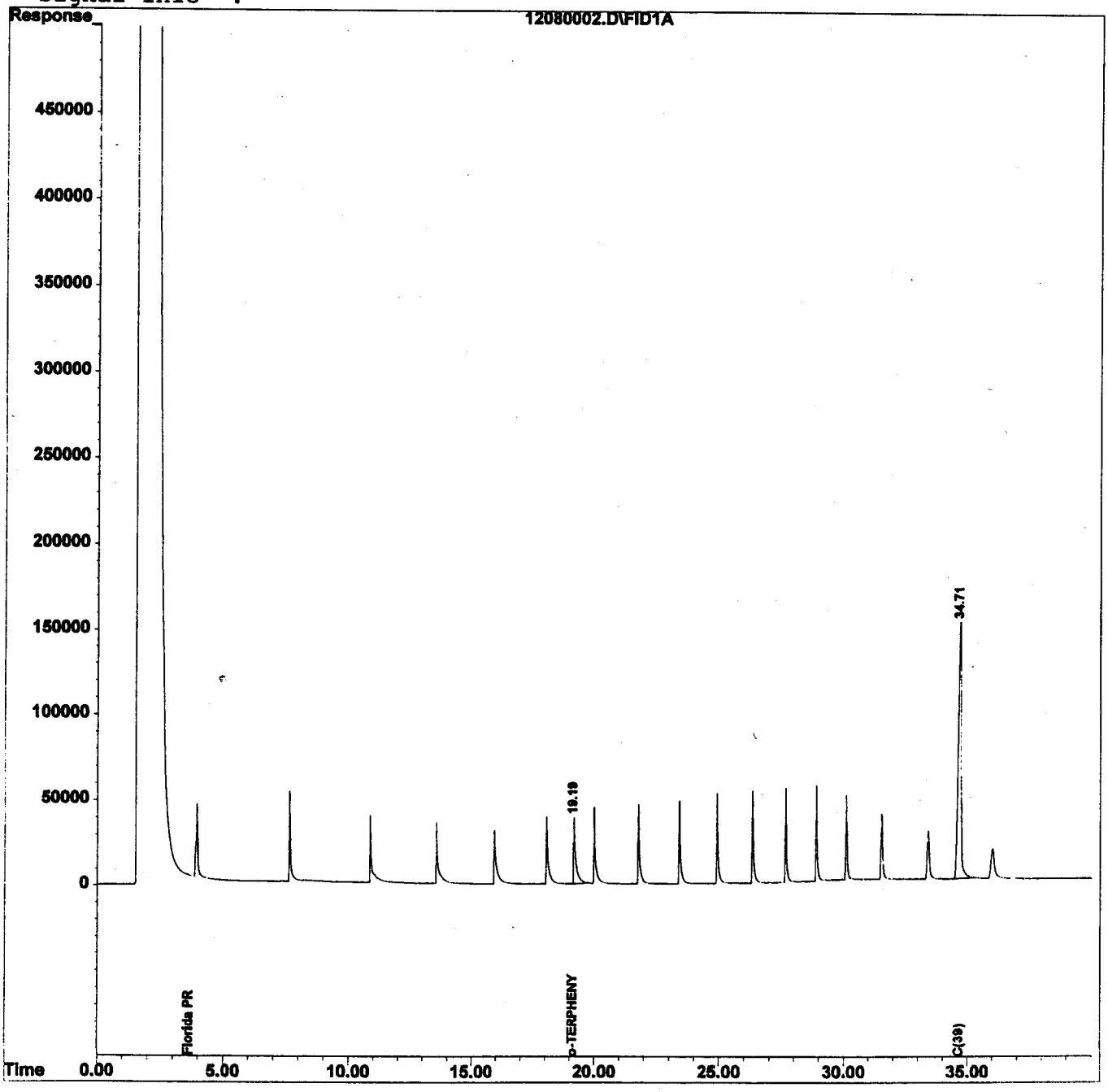
Quantitation Report

Data File : C:\HPCHEM\2\DATA\120800\12080002.D
Acq On : 8 Dec 2000 13:11
Sample : 850 PHS PRO ICAL
Misc :
IntFile : events.e
Quant Time: Dec 8 15:16 2000 Quant Results File: PRO0901.RES

Vial: 2
Operator: MT
Inst : DRO-B
Multiplr: 1.00

Quant Method : C:\HPCHEM\2\METHODS\PRO0901.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Mon Nov 27 15:46:57 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0901.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\120800\12080003.D Vial: 3
Acq On : 8 Dec 2000 13:59 Operator: MT
Sample : 2550 PHS PRO ICAL Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Dec 8 15:16 2000 Quant Results File: PRO0901.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0901.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Mon Nov 27 15:46:57 2000
Response via : Initial Calibration
DataAcq Meth : PRO0901.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.17f	2380453	53.938 ug/mlm
Spiked Amount 50.000		Recovery =	107.88%
3) SC C(39)	34.70	14092023	302.349 ug/mlm
Spiked Amount 300.000		Recovery =	100.78%
Target Compounds			
1) HM Florida PRO	3.70	138696300	3404.128 ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

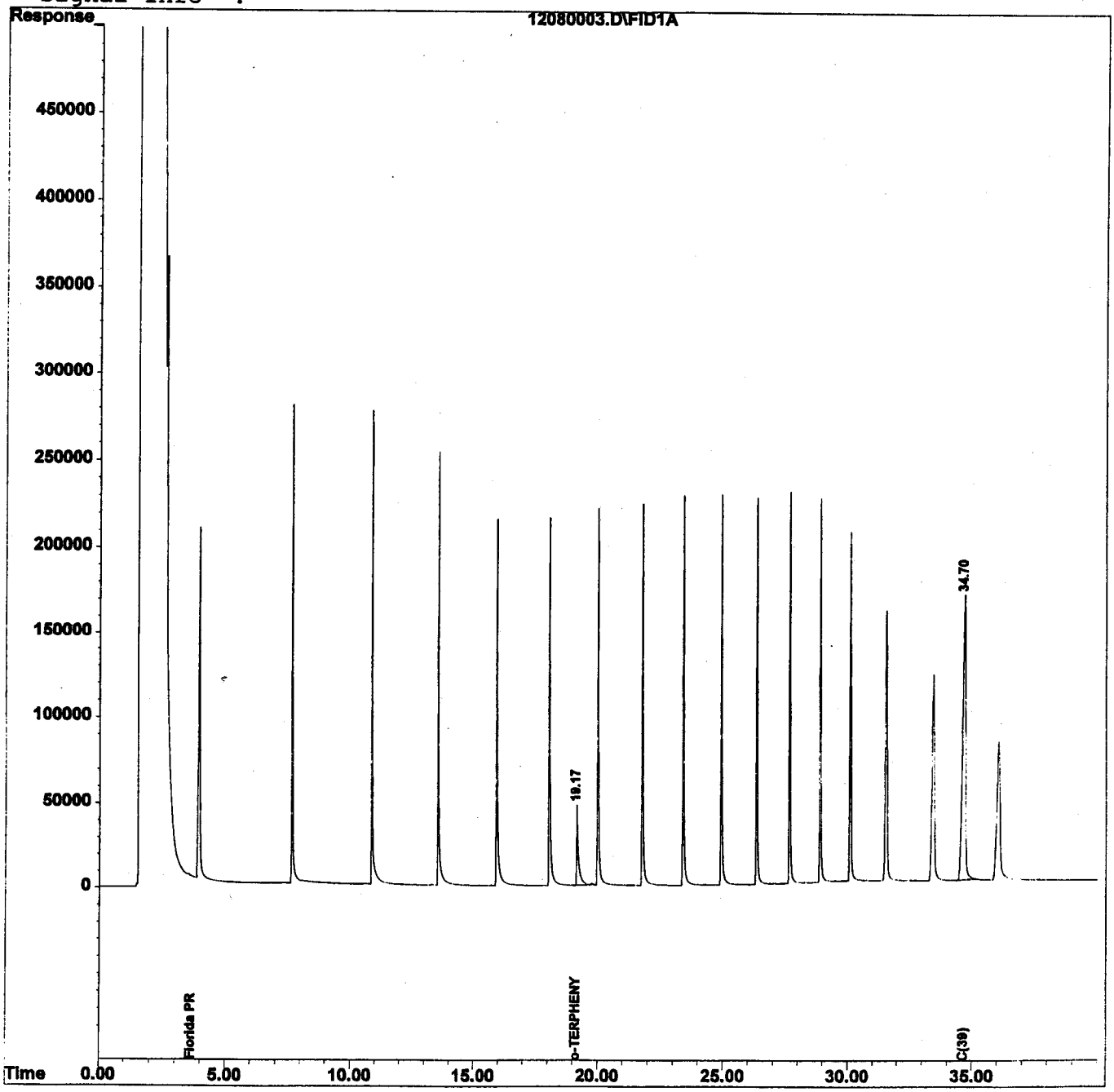
Quantitation Report

Data File : C:\HPCHEM\2\DATA\120800\12080003.D
Acq On : 8 Dec 2000 13:59
Sample : 2550 PHS PRO ICAL
Misc :
IntFile : events.e
Quant Time: Dec 8 15:16 2000 Quant Results File: PRO0901.RES

Vial: 3
Operator: MT
Inst : DRO-B
Multiplr: 1.00

Quant Method : C:\HPCHEM\2\METHODS\PRO0901.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Mon Nov 27 15:46:57 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0901.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\120800\12080004.D Vial: 4
Acq On : 8 Dec 2000 14:48 Operator: MT
Sample : 4250 PHS PRO ICAL Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Dec 8 15:34 2000 Quant Results File: PRO0901.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0901.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Mon Nov 27 15:46:57 2000
Response via : Initial Calibration
DataAcq Meth : PRO0901.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.16	2394194	54.249 ug/mlm
Spiked Amount 50.000		Recovery =	108.50%
3) SC C(39)	34.70	13556352	290.856 ug/mlm
Spiked Amount 300.000		Recovery =	96.95%
Target Compounds			
1) HM Florida PRO	3.70	225396394	5532.074 ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

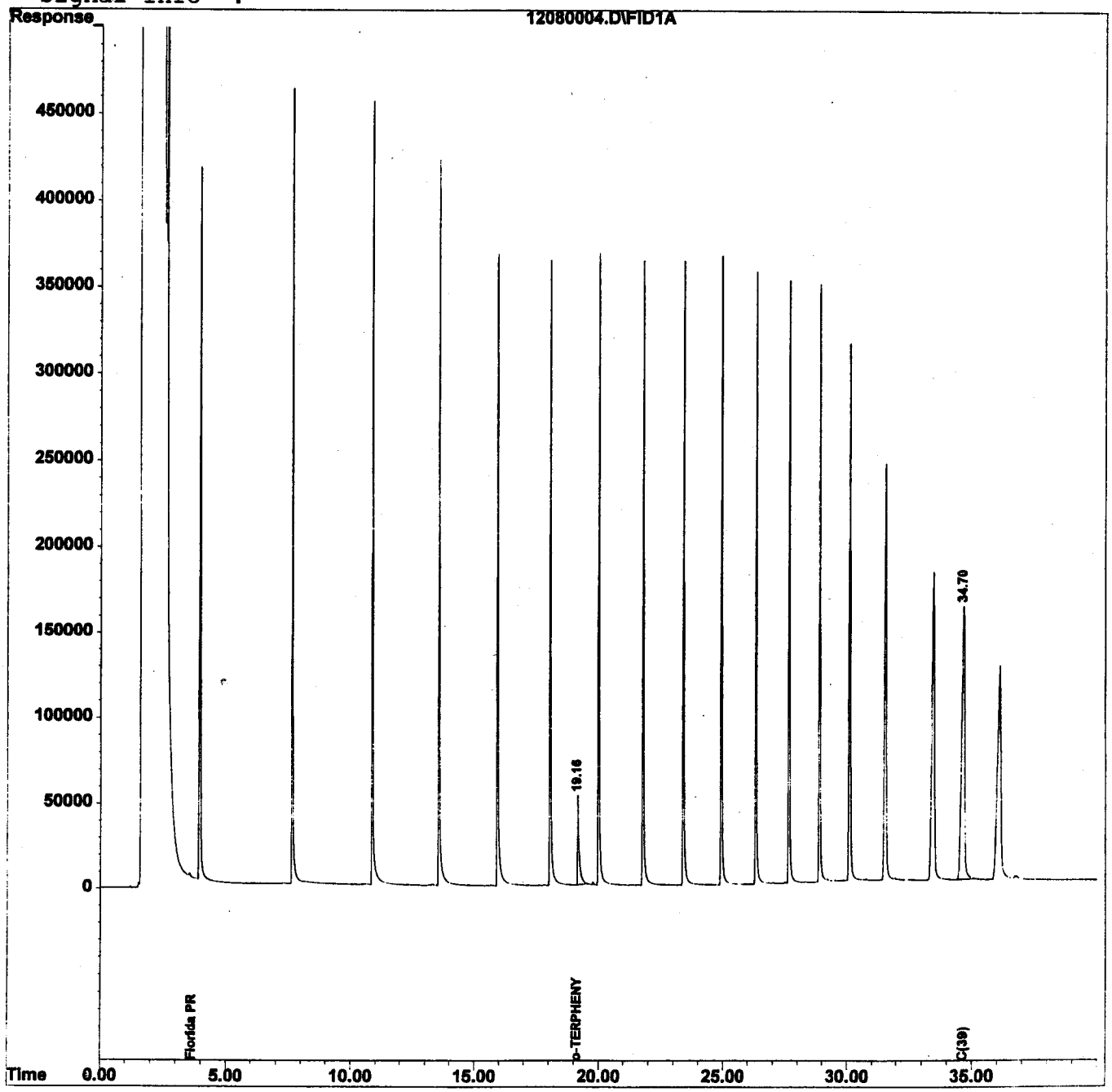
Quantitation Report

Data File : C:\HPCHEM\2\DATA\120800\12080004.D
Acq On : 8 Dec 2000 14:48
Sample : 4250 PHS PRO ICAL
Misc :
IntFile : events.e
Quant Time: Dec 8 15:34 2000 Quant Results File: PRO0901.RES

Vial: 4
Operator: MT
Inst : DRO-B
Multiplr: 1.00

Quant Method : C:\HPCHEM\2\METHODS\PRO0901.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Mon Nov 27 15:46:57 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0901.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\120800\12080005.D Vial: 5
Acq On : 8 Dec 2000 15:36 Operator: MT
Sample : 5950 PHS PRO ICAL Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Dec 8 16:17 2000 Quant Results File: PRO0901.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0901.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Mon Nov 27 15:46:57 2000
Response via : Initial Calibration
DataAcq Meth : PRO0901.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.16	2425862	54.966 ug/mlm
Spiked Amount 50.000		Recovery =	109.93%
3) SC C(39)	34.70	13125618	281.614 ug/mlm
Spiked Amount 300.000		Recovery =	93.87%
Target Compounds			
1) HM Florida PRO	3.70	320089278	7856.193 ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

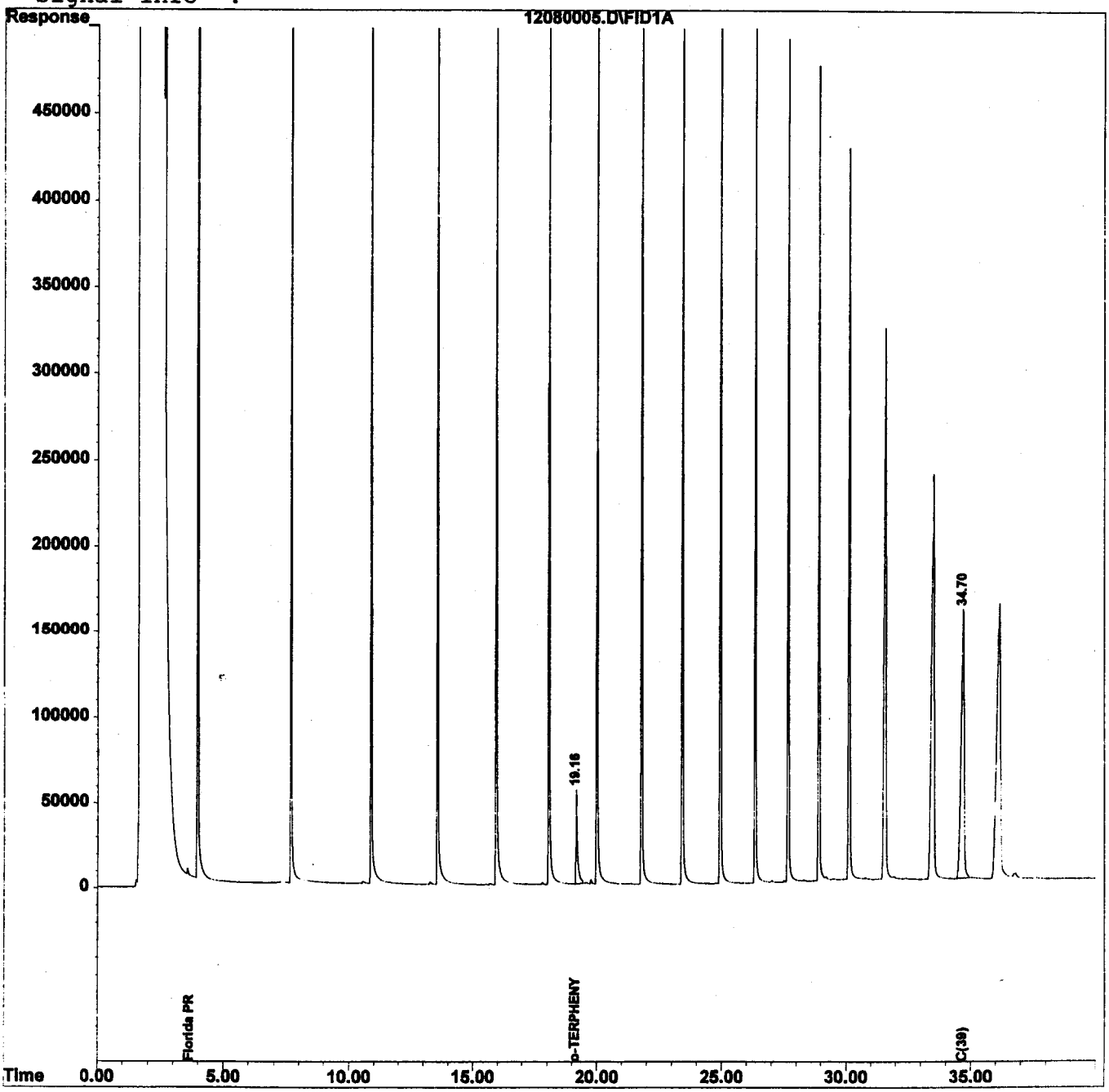
Quantitation Report

Data File : C:\HPCHEM\2\DATA\120800\12080005.D
Acq On : 8 Dec 2000 15:36
Sample : 5950 PHS PRO ICAL
Misc :
IntFile : events.e
Quant Time: Dec 8 16:17 2000 Quant Results File: PRO0901.RES

Vial: 5
Operator: MT
Inst : DRO-B
Multiplr: 1.00

Quant Method : C:\HPCHEM\2\METHODS\PRO0901.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Mon Nov 27 15:46:57 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0901.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\120800\12080006.D Vial: 6
Acq On : 8 Dec 2000 16:25 Operator: MT
Sample : 8500 PHS PRO ICAL Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Dec 8 17:06 2000 Quant Results File: PRO0901.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0901.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Mon Nov 27 15:46:57 2000
Response via : Initial Calibration
DataAcq Meth : PRO0901.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.17	2025865	45.903 ug/mlm
Spiked Amount 50.000		Recovery =	91.81%
3) SC C(39)	34.72	11984023	257.121 ug/mlm
Spiked Amount 300.000		Recovery =	85.71%
Target Compounds			
1) HM Florida PRO	3.70	384596146	9439.434 ug/ml

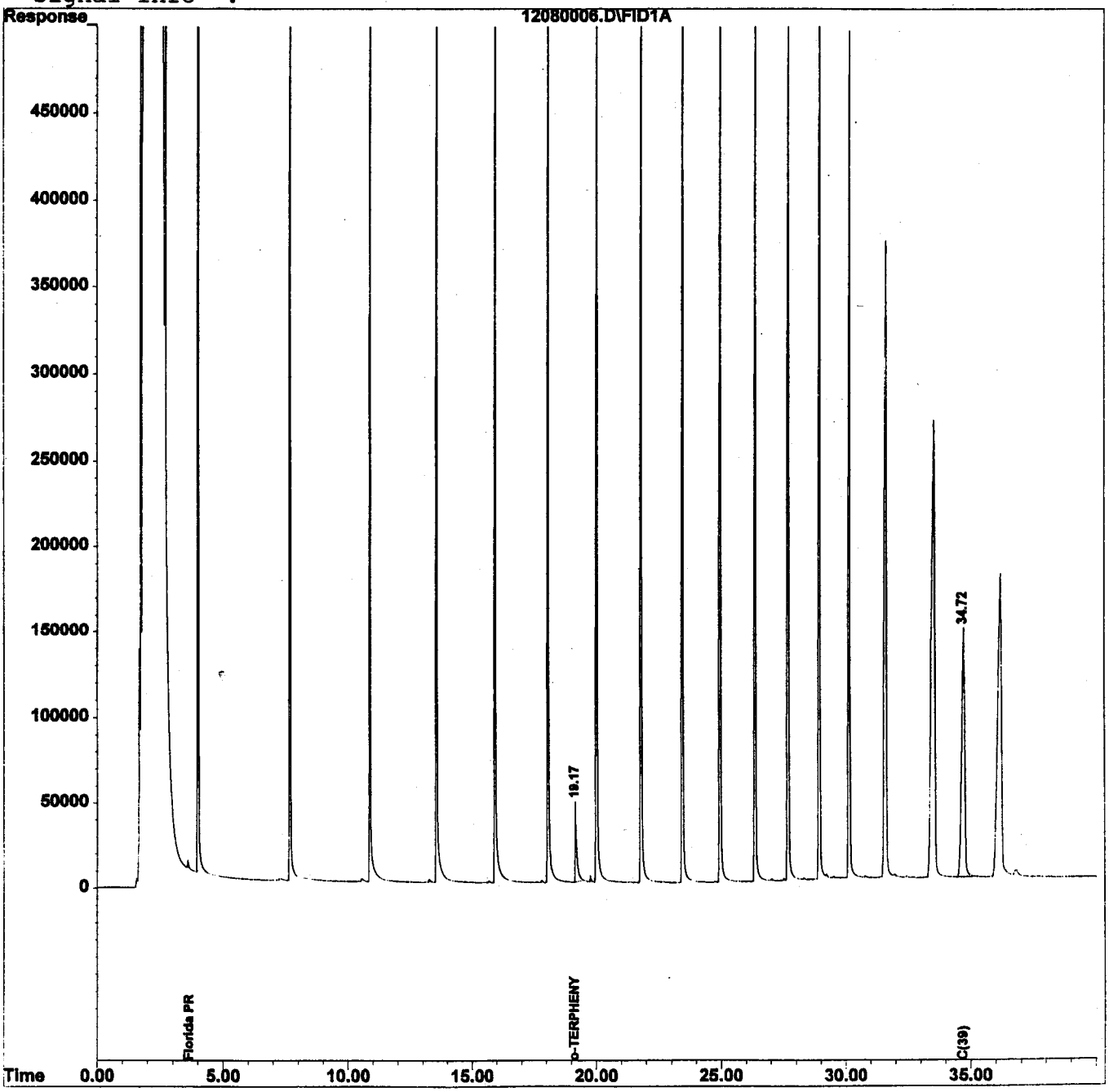
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\120800\12080006.D Vial: 6
Acq On : 8 Dec 2000 16:25 Operator: MT
Sample : 8500 PHS PRO ICAL Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Dec 8 17:06 2000 Quant Results File: PRO0901.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0901.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Mon Nov 27 15:46:57 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0901.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\120800\12080008.D Vial: 8
Acq On : 8 Dec 2000 21:59 Operator: MT
Sample : 4250 PHS PRO ICV Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Dec 18 12:18 2000 Quant Results File: PRO1208.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Mon Dec 18 12:09:37 2000
Response via : Initial Calibration
DataAcq Meth : PRO0901.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.20	1889314	40.918 ug/mlm
Spiked Amount 50.000		Recovery =	81.84% ✓MT
3) SC C(39)	34.73	11867881	270.150 ug/mlm
Spiked Amount 300.000		Recovery =	90.05% ✓MT
Target Compounds			
1) HM Florida PRO	3.70	197434255	3471.342 ug/ml

82% ✓
MT

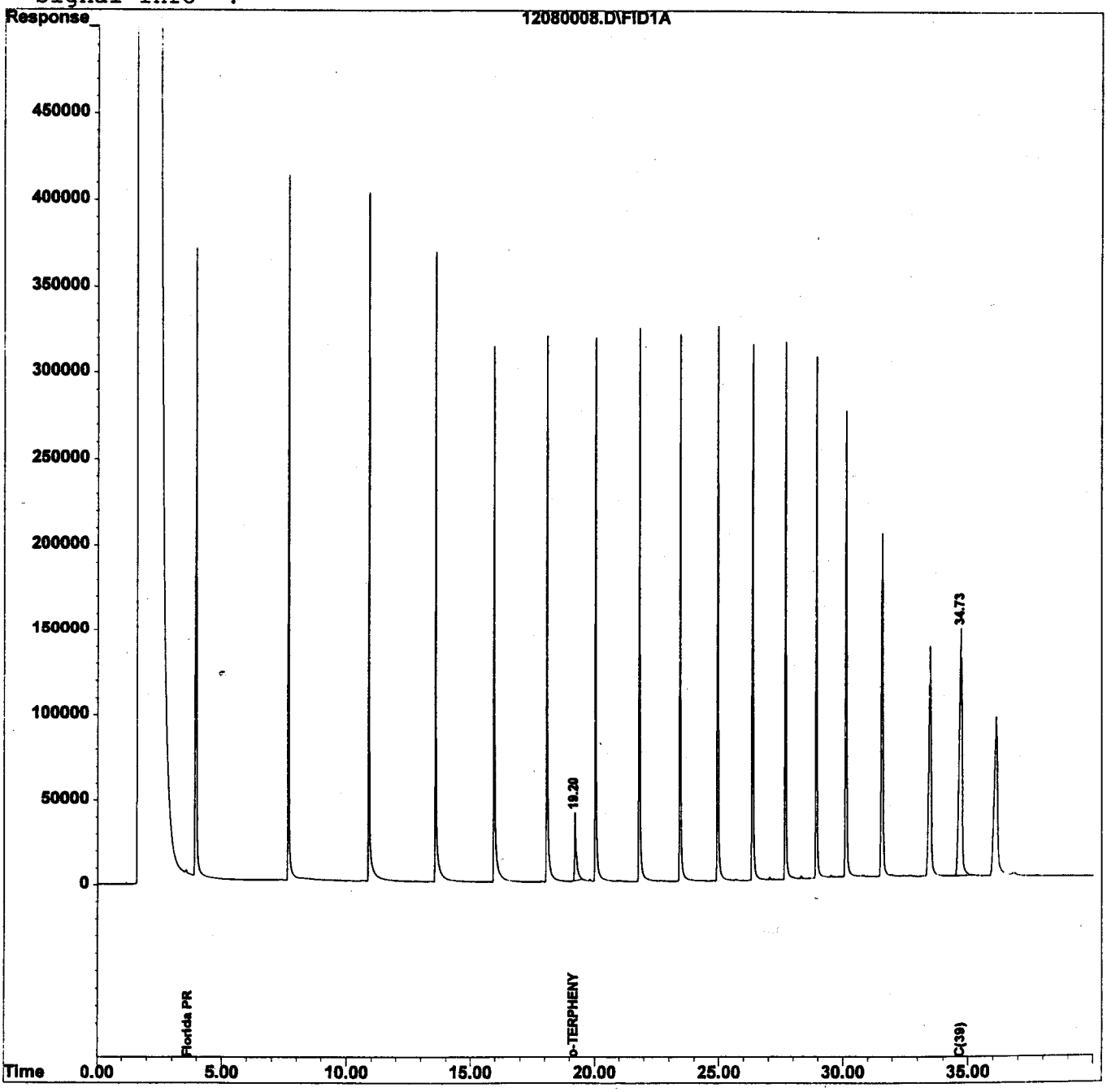
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\120800\12080008.D Vial: 8
Acq On : 8 Dec 2000 21:59 Operator: MT
Sample : 4250 PHS PRO ICV Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Dec 18 12:18 2000 Quant Results File: PRO1208.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Mon Dec 18 12:09:37 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0901.M

Volume Inj. :
Signal Phase :
Signal Info :



Accura Analytical Laboratory
GC/MS VOLATILE INSTRUMENT C RUNLOG

Date: 12/29/00
Analyst(s): TAG/VR
Calib. File 122800A.W
Quant ID File: 122900A5.M

BFB Standard Lot #: V00048
Surrogate Standard Lot #: V00052
Internal Standard lot #: V00076
Calib.Standard Lot #: V00084, V00057

GC Conditions
BFB: 80°C-10°C/10min-155°C
Samples: 40°C(4m)-8°C/min-180°C(2m)

	CCV IS RT	CCV IS Areas
IS1	6.46	482267
IS2	12.78	301043
IS3	16.89	149855

Surrogate Limits

	DCE	TOL-d8	BFB
QC	78-114	88-106	85-111
Sample	78-128	~~85-111~~ 84-108 VR	86-112

MS Conditions
EM: 1671
Tune File: BFB01.M
Scan Delay: 1.00 min

File Name	Project ID	Lab Sam. ID	Client Sam. ID	Matrix	Volume	DF	ALS #	pH	-Cl	IS	SS	Comments
C18247	QC	BFB 50ng	—	—	2ml	—	—	—	—	—	—	13:43
C18248	↓	CCV 50ppb	—	W	25ml	1	1	—	—	✓	✓	
C18249		Water BLK	—	W	25ml	1	2	—	—	✓	✓	QVW122900C1
C18250		Water BLK	—	W	25ml	1	2	—	—	✓	X	
C18251		Water BLK	—	W	25ml	1	2	—	—	✓	✓	
C18252	↓	Water BLK SPIKE	—	W	25ml	1	3	—	—	✓	✓	QVWBS122900C1
C18253	26563	AC05535	—	W	25ml	1	4	1	X	✓	✓	
C18254	↓	AC05540	—	W	25ml	1	5	2	X	✓	✓	
C18255		AC05536	—	W	25ml	1	6	1	X	✓	✓	
C18256		AC05537	—	W	25ml	1	7	1	X	✓	✓	
C18257		AC05538	—	W	25ml	1	8	1	X	✓	✓	
C18258		AC05539	—	W	25ml	1	9	1	X	✓	✓	
C18259		AC05541	—	W	25ml	1	10	1	X	✓	✓	
C18260		AC05542	—	W	25ml	1	11	1	X	✓	✓	
C18261	↓	AC05543	—	W	25ml	1	12	1	X	✓	✓	
C18262	26562	AC05532	—	W	25ml	1	14	1	X	✓	✓	NDIL
C18263	↓	AC05533	—	W	25ml	1	15	1	X	✓	✓	
C18264	26555	AC05510	—	W	1ml	25	16	1	X	✓	✓	
C18265	↓	AC05509	—	W	0.1ml	250	1	4	X	✓	✓	NDIL
C18266	26563	AC05540	—	W	5ml	5	2	2	X	✓	✓	RI
C18267		AC05536	—	W	25ml	1	3	1	X	✓	✓	
C18268		AC05540MS	—	W	25ml	1	4	2	X	✓	✓	
C18269	↓	AC05540MSD	—	W	25ml	1	5	2	X	✓	✓	RI 1:53
C												
C												
C												
C												

Note: NDIL=Need Dilution NRI=Needs Reinjection MI=Matrix Interferences NC=Needs Concentrated

VR 01/01/01

Sign/Date: VR 01/01/01 7:58

Accura Analytical Laboratory
GC/MS VOLATILE INSTRUMENT C RUNLOG

Date: 12/29/00
Analyst(s): TAG / VR
Calib. File 122800A.W
Quant ID File: 122900C5.M

BFB Standard Lot #: V00048
Surrogate Standard Lot #: V00052
Internal Standard lot #: V0076
Calib.Standard Lot #: V0084, V00057

GC Conditions
BFB: 80°C-10°C/10min-155°C
Samples: 40°C(4m)-8°C/min-180°C(2m)

	CCV IS RT	CCV IS Areas
#1	6.46	482267
#2	12.78	301043
#3	16.89	149855

Surrogate Limits

	DCE	TOL-d8	BFB
QC	78-114	88-106	85-111
Sample	78-128	~~85-111~~ 84-108 VR	86-112

MS Conditions
EM: 1671
Tune File: BFB01.M
Scan Delay: 1.00 min

File Name	Project ID	Lab Sam. ID	Client Sam. ID	Matrix	Volume	DF	ALS #	pH	-Cl	IS	SS	Comments
C18247	QC	BFB 50ng	—	—	2ml	—	—	—	—	—	—	13:43
C18248	↓	CCV 50ppb	—	W	25ml	1	1	—	—	✓	✓	
C18249	↓	Water BLK	—	W	25ml	1	2	—	—	✓	✓	QVW122900C1
C18250	↓	Water BLK	—	W	25ml	1	2	—	—	✓	X	
C18251	↓	Water BLK	—	W	25ml	1	2	—	—	✓	✓	
C18252	↓	Water BLK SPIKE	—	W	25ml	1	3	—	—	✓	✓	QVWBS122900C1
C18253	26563	AC05535	—	W	25ml	1	4	1	X	✓	✓	
C18254	↓	AC05540	—	W	25ml	1	5	2	X	✓	✓	
C18255	↓	AC05536	—	W	25ml	1	6	1	X	✓	✓	
C18256	↓	AC05537	—	W	25ml	1	7	1	X	✓	✓	
C18257	↓	AC05538	—	W	25ml	1	8	1	X	✓	✓	
C18258	↓	AC05539	—	W	25ml	1	9	1	X	✓	✓	
C18259	↓	AC05541	—	W	25ml	1	10	1	X	✓	✓	
C18260	↓	AC05542	—	W	25ml	1	11	1	X	✓	✓	
C18261	↓	AC05543	—	W	25ml	1	12	1	X	✓	✓	
C18262	26562	AC05532	—	W	25ml	1	14	1	X	✓	✓	NDIL
C18263	↓	AC05533	—	W	25ml	1	15	1	X	✓	✓	
C18264	26555	AC05510	—	W	1ml	25	16	1	X	✓	✓	
C18265	↓	AC05509	—	W	0.1ml	250	1	4	X	✓	✓	NDIL
C18266	26563	AC05540	—	W	5ml	5	2	2	X	✓	✓	RI
C18267	↓	AC05536	—	W	25ml	1	3	1	X	✓	✓	
C18268	↓	AC05540MS	—	W	25ml	1	4	2	X	✓	✓	
C18269	↓	AC05540MSD	—	W	25ml	1	5	2	X	✓	✓	RI 1:53
C												
C												
C												
C												

Note: NDIL=Need Dilution NRI=Needs Reinjection MI=Matrix Interferences NC=Needs Concentrated

VR 01/01/01

Sign/Date: VR 01/01/01 7:58

VOA GC/MS QC CHECKLIST

SW-846-8260B

26563 Project Specific Q.C

BATCH #: C12140025-M	METHOD: 8260B
MATRIX: water	

Are BS/BSD/MS/MSD recoveries within recovery ranges?	Y	N	NA
Is/Are blank result(s) less than 1/2 RDL for analytes of interest?	Y	N	NA
Are all surrogate recoveries within recovery ranges?	Y	N	NA
Are all Internal Standard areas w/in -50% to +100% of that in the CCV?	Y	N	NA
Are all Internal Standard retention times w/in 30 seconds of that in the CCV?	Y	N	NA
Are all MS/MSD compounds below the high standard?	Y	N	NA
Were sample analyses performed within holding times?	Y	N	NA
Were analyses performed such that carryover was not a problem?	Y	N	NA
Is the run log completely filled out (including review signature/date)?	Y	N	NA
Are all mistakes single lined out, initialled, & dated?	Y	N	NA

Analyst: JR	Reviewer: Thomas A. Patel
Date: 01/03/01 Time: 14:38	Date: 1/5/2001 Time: 10:10

Spike Recovery and RPD Summary Report - WATER

Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 08:48:11 2000
Response via : Initial Calibration

Non-Spiked Sample: C18254.D

	Spike Sample	Spike Duplicate Sample
File ID :	C18268.D	C18283.D
Sample :	AC05540MS 25ml DF=1	AC05540MSD 25ml DF=1
Acq Time:	30 Dec 2000 1:23	2 Jan 2001 17:49

Compound	Sample Conc	Spike Added	Spike Res	Dup Res	Spike %Rec	Dup %Rec	RPD	QC Limits RPD	QC Limits % Rec
1,1-Dichloroethene	0.0	10	10	10	98	100	2	20	82-118
Benzene	0.2	10	10	10	103	97	5	20	83-121
Trichloroethene	0.1	10	10	10	101	96	5	20	68-109
Toluene	0.5	10	11	10	103	95	8	20	85-109
Chlorobenzene	0.1	10	10	9	99	94	6	20	82-110

- Fails Limit Check

12290025.M Wed Jan 03 14:36:38 2001 RPT1

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\122900\C18268.D Vial: 4
Acq On : 30 Dec 2000 1:23 Operator: TAG/VR
Sample : AC05540MS 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 30 1:49 2000 Quant Results File: 12290025.RES

Quant Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 10:24:33 2000
Response via : Initial Calibration
DataAcq Meth : 12290025

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.46	168	386210	10.00	ug\L	-0.01
45) Chlorobenzene-d5	12.77	117	262816	10.00	ug\L	0.00
61) 1,4-Dichlorobenzene-d4	16.89	152	132256	10.00	ug\L	0.00

System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	6.94	65	74858	9.77	ug\L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 97.70%			
46) Toluene-d8	10.26	98	395191	10.16	ug\L	-0.01
Spiked Amount 10.000	Range 87 - 104		Recovery = 101.60%			
65) Bromofluorobenzene	14.86	95	184589	10.07	ug\L	-0.01
Spiked Amount 10.000	Range 84 - 110		Recovery = 100.70%			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.59	85	263116	10.50	ug\L	99
3) Chloromethane	1.76	50	94824	10.95	ug\L	98
4) Vinyl Chloride	1.83	62	109548	9.18	ug\L	99
5) Bromomethane	2.12	94	107946	10.19	ug\L	100
6) Chloroethane	2.20	64	68756	10.94	ug\L	99
7) Trichlorofluoromethane	2.41	101	323275	9.46	ug\L #	100
8) Acrolein	3.80	56	2421	11.13	ug\L #	3
9) Acrylonitrile	3.85	53	8244	19.72	ug\L #	69
10) 1,1-Dichloroethene	2.92	96	126017	9.83	ug\L	99
11) Acetone	3.02	58	2695	26.51	ug\L #	20
12) Iodomethane	3.10	142	155846	8.31	ug\L	99
13) Allylchloride	3.32	39	102545	10.03	ug\L #	37
14) Carbon Disulfide	3.16	76	240356	9.47	ug\L	99
15) Acetonitrile	3.32	41	153277	101.12	ug\L	93
16) Methylene Chloride	3.49	86	56234	8.47	ug\L #	35
17) trans-1,2-Dichloroethene	3.81	96	133839	10.33	ug\L	97
18) MethylTertButylEther	3.81	73	102046	9.71	ug\L	95
19) 1,1-Dichloroethane	4.44	63	217153	10.56	ug\L	99
20) Vinyl Acetate	3.80	43	23359	9.94	ug\L #	73
21) 2,2-Dichloropropane	5.41	77	195309	8.67	ug\L	98
22) cis-1,2-Dichloroethene	5.47	96	112451	10.28	ug\L	96
23) 2-Butanone	5.56	72	2349	12.91	ug\L #	92
24) Propionitrile	5.75	54	8046	77.83	ug\L #	78
25) Methacrylonitrile	5.94	41	100453	101.49	ug\L	95
26) Bromochloromethane	5.93	128	43835	10.52	ug\L	86
27) Chloroform	6.08	83	243578	9.93	ug\L	99
28) 1,1,1-Trichloroethane	6.31	97	281911	9.69	ug\L #	75
29) Carbon Tetrachloride	6.57	119	249058	9.53	ug\L #	76
31) 1,1-Dichloropropene	6.61	77	68750	9.73	ug\L #	1

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\122900\C18268.D
Acq On : 30 Dec 2000 1:23
Sample : AC05540MS 25ml DF=1
Misc : 26563/C12140025
MS Integration Params: rteint.p
Quant Time: Dec 30 1:49 2000

Vial: 4
Operator: TAG/VR
Inst : VOA-C
Multiplr: 1.00

Quant Results File: 12290025.RES

Quant Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 10:24:33 2000
Response via : Initial Calibration
DataAcq Meth : 12290025

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
33) Benzene	6.98	78	366440	10.49 ug\L	100
34) Isobutyl alcohol	7.16	43	6474	95.79 ug\L #	51
35) 1,2-Dichloroethane	7.08	62	89291	9.96 ug\L	100
36) Trichloroethene	8.14	95	186384	10.19 ug\L	93
37) 1,2-Dichloropropane	8.56	63	106610	10.22 ug\L #	97
38) Dibromomethane	8.79	93	48434	10.42 ug\L #	86
39) Methylmethacrylate	8.87	69	18582	10.62 ug\L	89
40) Bromodichloromethane	9.11	83	168653	10.10 ug\L	98
41) 2-Nitropropane	9.52	43	4479	9.58 ug\L #	100
42) 2-Chloroethyl-vinyl ether	9.69	63	66	2.94 ug\L #	47
43) cis-1,3-Dichloropropene	9.87	75	120256	9.98 ug\L	98
44) 4-Methyl-2-Pentanone	10.21	85	4038	8.17 ug\L #	1
47) Toluene	10.38	92	269648	10.79 ug\L	100
48) trans-1,3-Dichloropropene	10.88	75	77510	9.72 ug\L	95
49) Ethylmethacrylate	11.05	69	46234	9.84 ug\L #	89
50) 1,1,2-Trichloroethane	11.19	83	48298	10.63 ug\L	91
51) Tetrachloroethene	11.31	164	169901	10.20 ug\L	93
52) 1,3-Dichloropropane	11.45	76	84038	10.04 ug\L	100
53) 2-Hexanone	11.65	43	15132	12.50 ug\L #	57
54) Dibromochloromethane	11.85	129	90104	10.05 ug\L	95
55) 1,2-Dibromoethane	11.98	107	59991	10.09 ug\L #	94
56) Chlorobenzene	12.82	112	283541	9.97 ug\L	95
57) 1,1,1,2-Tetrachloroethane	13.01	131	119222	9.96 ug\L	94
58) Ethylbenzene	13.04	91	1611542	31.67 ug\L	98
59) total-Xylene	13.92	106	316606m	42.18 ug\L	
60) Styrene	13.97	104	261358	10.33 ug\L	95
62) Bromoform	14.31	173	41453	9.61 ug\L #	97
63) Isopropylbenzene	14.57	105	1237582	19.27 ug\L	98
64) 1,4-dichloro-2-Butene	15.27	75	42429	10.35 ug\L #	100
66) Bromobenzene	15.09	156	115083	10.53 ug\L #	62
67) 1,1,2,2-Tetrachloroethane	15.24	83	50903	10.15 ug\L #	92
68) 1,2,3-Trichloropropane	15.27	75	42429	10.35 ug\L #	100
69) n-Propylbenzene	15.31	91	1408101	20.43 ug\L	99
70) 2-Chlorotoluene	15.42	91	447277	11.86 ug\L #	87
71) 4-Chlorotoluene	15.64	91	619814	12.34 ug\L #	90
72) 1,3,5-Trimethylbenzene	15.64	105	1764405	35.84 ug\L	88
73) Pentachloroethane	16.24	167	73469	10.17 ug\L	99
74) tert-Butylbenzene	16.20	119	370573	6.22 ug\L #	67
75) 1,2,4-Trimethylbenzene	16.29	105	4575048	99.04 ug\L	86
76) sec-Butylbenzene	16.58	105	1206297	16.30 ug\L	93
77) 1,3-Dichlorobenzene	16.76	146	216911	10.30 ug\L	96
78) Isopropyltoluene	16.85	119	1226185	21.18 ug\L	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\122900\C18268.D
Acq On : 30 Dec 2000 1:23
Sample : AC05540MS 25ml DF=1
Misc : 26563/C12140025
MS Integration Params: rteint.p
Quant Time: Dec 30 1:49 2000

Vial: 4
Operator: TAG/VR
Inst : VOA-C
Multiplr: 1.00

Quant Results File: 12290025.RES

Quant Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 10:24:33 2000
Response via : Initial Calibration
DataAcq Meth : 12290025

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
79) 1,4-Dichlorobenzene	16.92	146	232715	9.86 ug\L	98
80) 1,2-Dichlorobenzene	17.58	146	165828	10.01 ug\L	97
81) n-Butylbenzene	17.59	91	1002225	17.80 ug\L #	46
82) 1,2-Dibromo-3-chloropropan	19.02	75	19276	20.01 ug\L #	62
83) 1,2,4-trichlorobenzene	20.44	180	128829	10.83 ug\L	100
84) Hexachlorobutadiene	20.75	225	169781	10.07 ug\L	100
85) Naphthalene	20.87	128	479738	51.17 ug\L	100
86) 1,2,3-Trichlorobenzene	21.31	180	95600	11.47 ug\L #	81

(#) = qualifier out of range (m) = manual integration

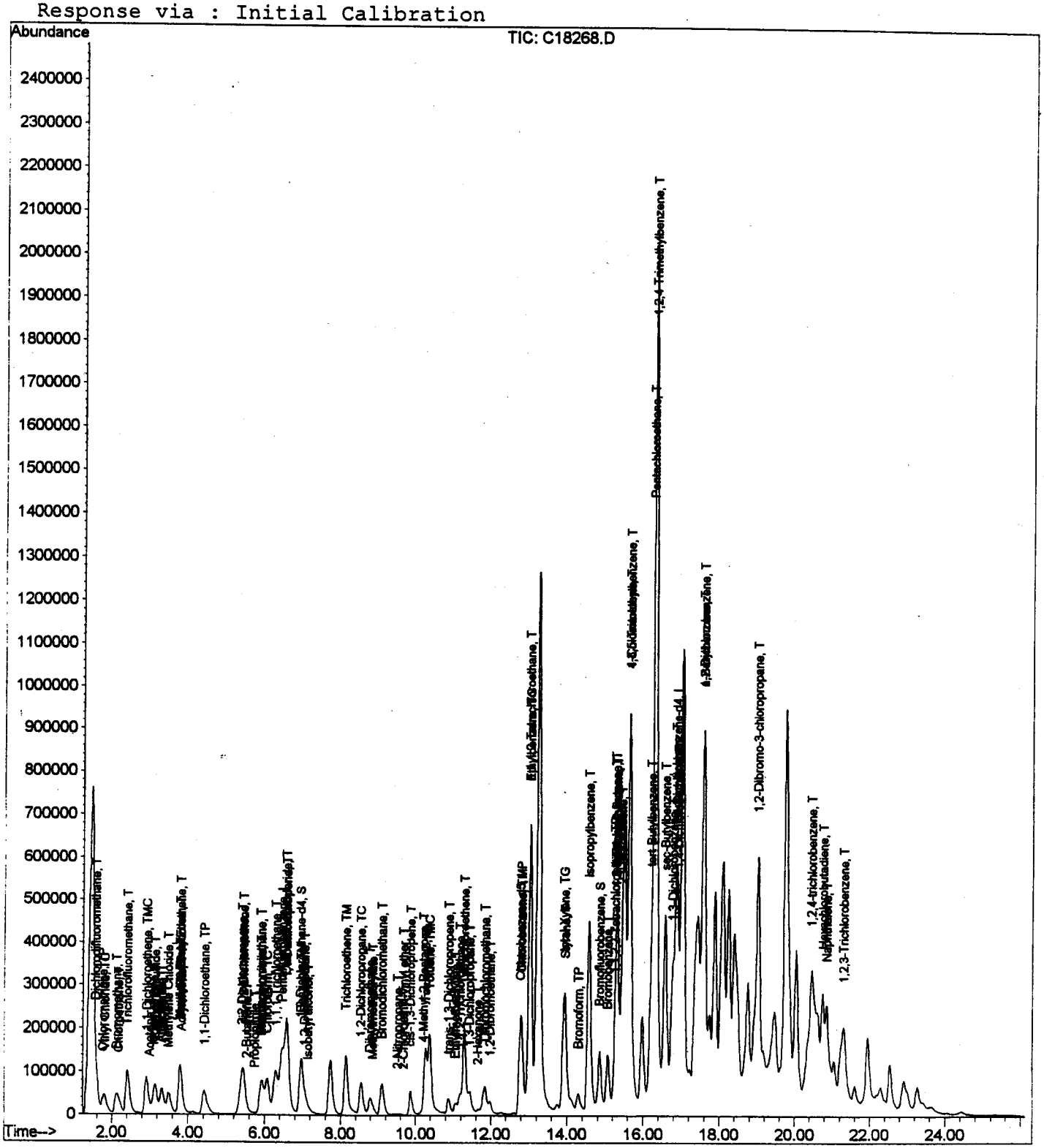
Quantitation Report

Data File : C:\HPCHEM\1\DATA\122900\C18268.D
Acq On : 30 Dec 2000 1:23
Sample : AC05540MS 25ml DF=1
Misc : 26563/C12140025
MS Integration Params: rteint.p
Quant Time: Dec 30 1:49 2000

Vial: 4
Operator: TAG/VR
Inst : VOA-C
Multiplr: 1.00

Quant Results File: 12290025.RES

Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 08:48:11 2000
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\010201\C18283.D
Acq On : 2 Jan 2001 17:49
Sample : AC05540MSD 25ml DF=1
Misc : 26563/C12140025
MS Integration Params: rteint.p
Quant Time: Jan 2 18:15 2001

Vial: 11
Operator: TAG/VR
Inst : VOA-C
Multiplr: 1.00
Quant Results File: 01020125.RES

Quant Method : c:\hpchem\1\data\010201\01020125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 10:24:33 2000
Response via : Initial Calibration
DataAcq Meth : 01020125

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.45	168	431208	10.00	ug\L	-0.02
45) Chlorobenzene-d5	12.77	117	304259	10.00	ug\L	0.00
61) 1,4-Dichlorobenzene-d4	16.88	152	160897	10.00	ug\L	0.00
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	6.94	65	88186	10.30	ug\L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 103.00%			
46) Toluene-d8	10.26	98	422285	9.37	ug\L	-0.02
Spiked Amount 10.000	Range 87 - 104		Recovery = 93.70%			
65) Bromofluorobenzene	14.86	95	215617	9.67	ug\L	-0.02
Spiked Amount 10.000	Range 84 - 110		Recovery = 96.70%			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.59	85	278250	9.95	ug\L	99
3) Chloromethane	1.77	50	103258	10.68	ug\L	96
4) Vinyl Chloride	1.84	62	123612	9.28	ug\L	99
5) Bromomethane	2.12	94	113397	9.59	ug\L	98
6) Chloroethane	2.22	64	72474	10.33	ug\L	96
7) Trichlorofluoromethane	2.43	101	368894	9.66	ug\L #	100
8) Acrolein	3.77	56	1935	7.97	ug\L #	19
9) Acrylonitrile	3.84	53	9951	21.14	ug\L #	54
10) 1,1-Dichloroethene	2.93	96	143028	9.99	ug\L	97
11) Acetone	3.05	58	1010	10.06	ug\L #	1
12) Iodomethane	3.11	142	197611	9.31	ug\L	100
13) Allylchloride	3.33	39	108156	9.47	ug\L #	21
14) Carbon Disulfide	3.16	76	306455	10.82	ug\L	99
15) Acetonitrile	3.33	41	165801	97.97	ug\L	94
16) Methylene Chloride	3.49	86	61263	8.23	ug\L #	1
17) trans-1,2-Dichloroethene	3.80	96	143129	9.90	ug\L	97
18) MethylTertButylEther	3.80	73	129346	11.02	ug\L	96
19) 1,1-Dichloroethane	4.42	63	227706	9.92	ug\L	99
20) Vinyl Acetate	3.80	43	29181	11.12	ug\L #	73
21) 2,2-Dichloropropane	5.39	77	236132	9.39	ug\L	97
22) cis-1,2-Dichloroethene	5.46	96	120830	9.89	ug\L #	11
23) 2-Butanone	5.60	72	1224	8.31	ug\L #	1
24) Propionitrile	5.75	54	15311	116.67	ug\L #	67
25) Methacrylonitrile	5.93	41	121668	110.09	ug\L	96
26) Bromochloromethane	5.90	128	50772	10.92	ug\L #	76
27) Chloroform	6.06	83	263004	9.60	ug\L	99
28) 1,1,1-Trichloroethane	6.30	97	310304	9.55	ug\L #	75
29) Carbon Tetrachloride	6.56	119	279422	9.58	ug\L #	78
31) 1,1-Dichloropropene	6.59	77	77886	9.88	ug\L #	1

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\010201\C18283.D Vial: 11
Acq On : 2 Jan 2001 17:49 Operator: TAG/VR
Sample : AC05540MSD 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 2 18:15 2001 Quant Results File: 01020125.RES

Quant Method : c:\hpchem\1\data\010201\01020125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 10:24:33 2000
Response via : Initial Calibration
DataAcq Meth : 01020125

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
33)	Benzene	6.96	78	389249	9.98	ug\L		100
34)	Isobutyl alcohol	7.16	43	14853	225.91	ug\L		90
35)	1,2-Dichloroethane	7.09	62	105069	10.50	ug\L		100
36)	Trichloroethene	8.12	95	198891	9.74	ug\L		93
37)	1,2-Dichloropropane	8.55	63	111661	9.59	ug\L	#	95
38)	Dibromomethane	8.78	93	58848	11.33	ug\L	#	85
39)	Methylmethacrylate	8.85	69	24661	12.63	ug\L		91
40)	Bromodichloromethane	9.09	83	193858	10.40	ug\L		97
41)	2-Nitropropane	9.54	43	6969	12.70	ug\L	#	100
42)	2-Chloroethyl-vinyl ether	9.68	63	256	3.79	ug\L	#	47
43)	cis-1,3-Dichloropropene	9.86	75	145798	10.84	ug\L		97
44)	4-Methyl-2-Pentanone	10.18	85	5253	9.52	ug\L	#	58
47)	Toluene	10.37	92	289978	10.02	ug\L		99
48)	trans-1,3-Dichloropropene	10.88	75	102249	11.08	ug\L		92
49)	Ethylmethacrylate	11.05	69	61782	11.20	ug\L	#	85
50)	1,1,2-Trichloroethane	11.17	83	57457	10.93	ug\L		96
51)	Tetrachloroethene	11.28	164	178677	9.27	ug\L		94
52)	1,3-Dichloropropane	11.43	76	105914	10.93	ug\L		99
53)	2-Hexanone	11.65	43	20873	14.90	ug\L	#	80
54)	Dibromochloromethane	11.83	129	118623	11.43	ug\L		100
55)	1,2-Dibromoethane	11.98	107	77870	11.31	ug\L	#	100
56)	Chlorobenzene	12.82	112	310171	9.42	ug\L		95
57)	1,1,1,2-Tetrachloroethane	12.99	131	137802	9.94	ug\L		95
58)	Ethylbenzene	13.03	91	1629353	27.66	ug\L		98
59)	total-Xylene	13.92	106	320869m	36.92	ug\L		
60)	Styrene	13.95	104	297154	10.15	ug\L		95
62)	Bromoform	14.31	173	54184	10.20	ug\L		99
63)	Isopropylbenzene	14.56	105	1235216	15.81	ug\L		98
64)	1,4-dichloro-2-Butene	15.25	75	50778	10.18	ug\L	#	100
66)	Bromobenzene	15.08	156	131971	9.93	ug\L	#	60
67)	1,1,2,2-Tetrachloroethane	15.23	83	65719	10.77	ug\L	#	94
68)	1,2,3-Trichloropropane	15.25	75	50778	10.18	ug\L	#	100
69)	n-Propylbenzene	15.30	91	1393228	16.61	ug\L		98
70)	2-Chlorotoluene	15.44	91	448996	9.79	ug\L	#	95
71)	4-Chlorotoluene	15.63	91	663514	10.86	ug\L		93
72)	1,3,5-Trimethylbenzene	15.63	105	1665878	27.82	ug\L		92
73)	Pentachloroethane	16.23	167	84800	9.65	ug\L		98
74)	tert-Butylbenzene	16.20	119	475204	6.55	ug\L	#	78
75)	1,2,4-Trimethylbenzene	16.29	105	4092822	72.83	ug\L		87
76)	sec-Butylbenzene	16.58	105	1188858	13.20	ug\L		92
77)	1,3-Dichlorobenzene	16.75	146	239953	9.36	ug\L		98
78)	Isopropyltoluene	16.85	119	1202880	17.08	ug\L		97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\010201\C18283.D
Acq On : 2 Jan 2001 17:49
Sample : AC05540MSD 25ml DF=1
Misc : 26563/C12140025
MS Integration Params: rteint.p
Quant Time: Jan 2 18:15 2001

Vial: 11
Operator: TAG/VR
Inst : VOA-C
Multiplr: 1.00
Quant Results File: 01020125.RES

Quant Method : c:\hpchem\1\data\010201\01020125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 10:24:33 2000
Response via : Initial Calibration
DataAcq Meth : 01020125

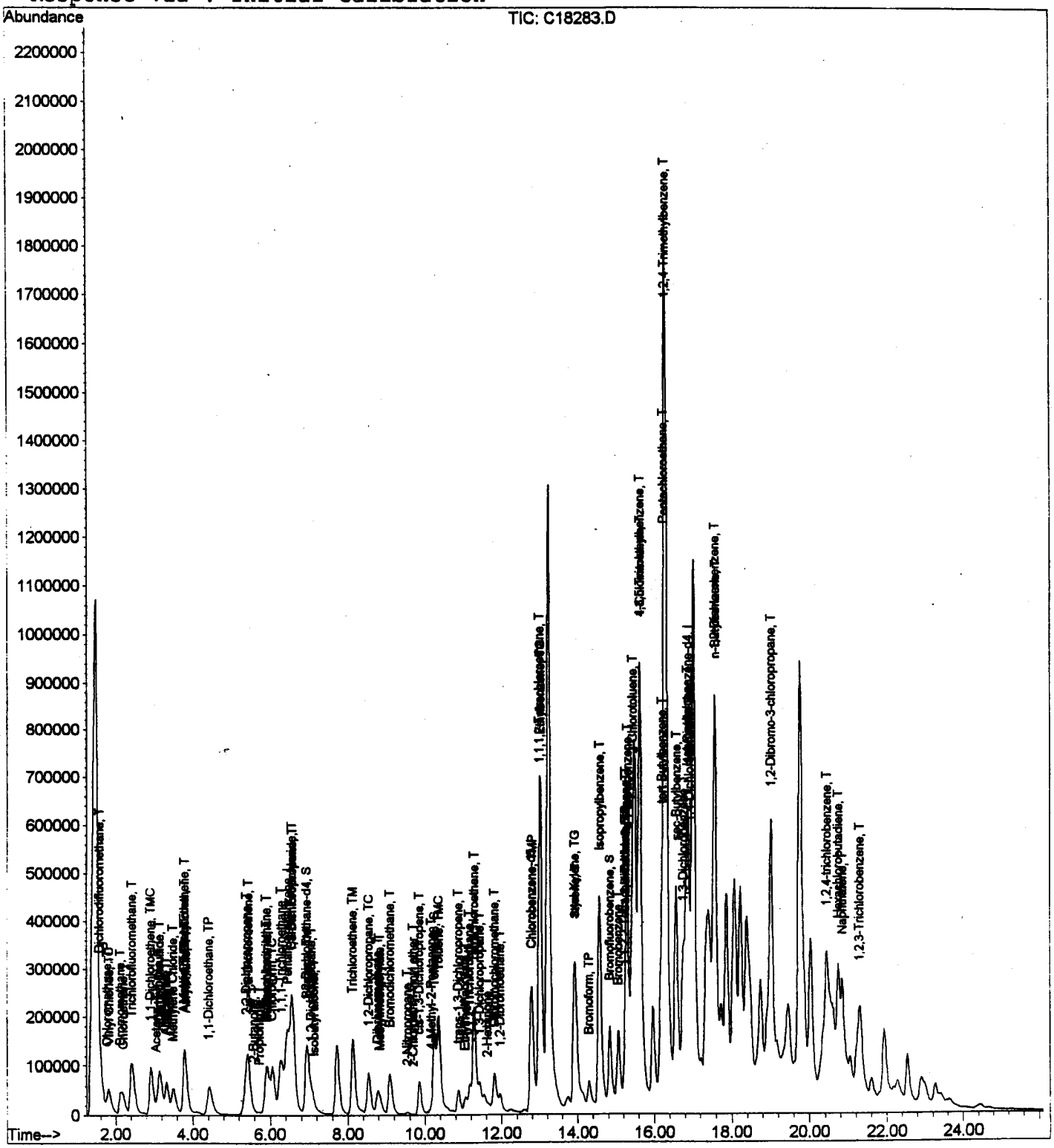
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
79)	1,4-Dichlorobenzene	16.92	146	274648	9.57 ug\L	99
80)	1,2-Dichlorobenzene	17.57	146	191111	9.48 ug\L	98
81)	n-Butylbenzene	17.59	91	983043	14.35 ug\L #	51
82)	1,2-Dibromo-3-chloropropan	19.00	75	20399	17.55 ug\L #	77
83)	1,2,4-trichlorobenzene	20.45	180	160627	11.10 ug\L	100
84)	Hexachlorobutadiene	20.76	225	184725	9.00 ug\L	100
85)	Naphthalene	20.87	128	522968	45.95 ug\L	100
86)	1,2,3-Trichlorobenzene	21.31	180	122978	12.13 ug\L #	67

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\010201\C18283.D Vial: 11
Acq On : 2 Jan 2001 17:49 Operator: TAG/VR
Sample : AC05540MSD 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 2 18:15 2001 Quant Results File: 01020125.RES

Method : c:\hpchem\1\data\010201\01020125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 08:48:11 2000
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\122900\C18254.D
Acq On : 29 Dec 2000 17:50
Sample : AC05540 25ml DF=1
Misc : 26563/C12140025
MS Integration Params: rteint.p
Quant Time: Dec 29 18:16 2000

Vial: 5
Operator: TAG/VR
Inst : VOA-C
Multiplr: 1.00

Quant Results File: 12290025.RES

Quant Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 10:24:33 2000
Response via : Initial Calibration
DataAcq Meth : 12290025

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	6.45	168	469188	10.00 ug\L	-0.02
45) Chlorobenzene-d5	12.77	117	320997	10.00 ug\L	0.00
61) 1,4-Dichlorobenzene-d4	16.89	152	159565	10.00 ug\L	0.00
System Monitoring Compounds					
32) 1,2-Dichloroethane-d4	6.93	65	81745	8.78 ug\L	-0.01
Spiked Amount 10.000	Range 80 - 120		Recovery = 87.80%		
46) Toluene-d8	10.26	98	446629	9.40 ug\L	-0.02
Spiked Amount 10.000	Range 87 - 104		Recovery = 94.00%		
65) Bromofluorobenzene	14.86	95	220814	9.98 ug\L	-0.01
Spiked Amount 10.000	Range 84 - 110		Recovery = 99.80%		

Target Compounds					Qvalue
8) Acrolein	4.08	56	148	~~0.56 ug\L #~~	1
11) Acetone	3.04	58	200	~~3.26 ug\L #~~	32
16) Methylene Chloride	3.51	86	4391	~~0.58 ug\L #~~	58
34) Isobutyl alcohol	7.18	43	642	~~17.51 ug\L #~~	17
41) 2-Nitropropane	9.59	43	828	~~2.87 ug\L #~~	100
49) Ethylmethacrylate	11.10	69	464	~~1.13 ug\L #~~	1
53) 2-Hexanone	11.72	43	1904	~~1.29 ug\L #~~	41
58) Ethylbenzene	13.03	91	1217556	19.59 ug\L	99
59) total-Xylene	14.57	106	94305m	10.29 ug\L	
63) Isopropylbenzene	14.59	105	619808	8.00 ug\L	99
64) 1,4-dichloro-2-Butene	15.31	75	3680	~~0.74 ug\L #~~	100
68) 1,2,3-Trichloropropane	15.31	75	3680	~~0.74 ug\L #~~	100
69) n-Propylbenzene	15.31	91	688656	8.28 ug\L	98
70) 2-Chlorotoluene	15.49	91	151339	~~3.33 ug\L #~~	33
71) 4-Chlorotoluene	15.63	91	149871	~~2.47 ug\L #~~	54
72) 1,3,5-Trimethylbenzene	15.63	105	1332180	22.43 ug\L	88
74) tert-Butylbenzene	16.29	119	469779	6.53 ug\L #	56
75) 1,2,4-Trimethylbenzene	16.29	105	4093371	73.45 ug\L #	85 NDIL
76) sec-Butylbenzene	16.58	105	528857	~~5.92 ug\L~~	94
78) Isopropyltoluene	16.83	119	669062	9.58 ug\L	94
81) n-Butylbenzene	17.58	91	367129	~~5.41 ug\L #~~	1
82) 1,2-Dibromo-3-chloropropan	19.05	75	10131	~~9.32 ug\L #~~	16
83) 1,2,4-trichlorobenzene	20.44	180	11123	0.78 ug\L	100
85) Naphthalene	20.88	128	350497	31.36 ug\L	100
86) 1,2,3-Trichlorobenzene	21.31	180	12350	1.23 ug\L #	77

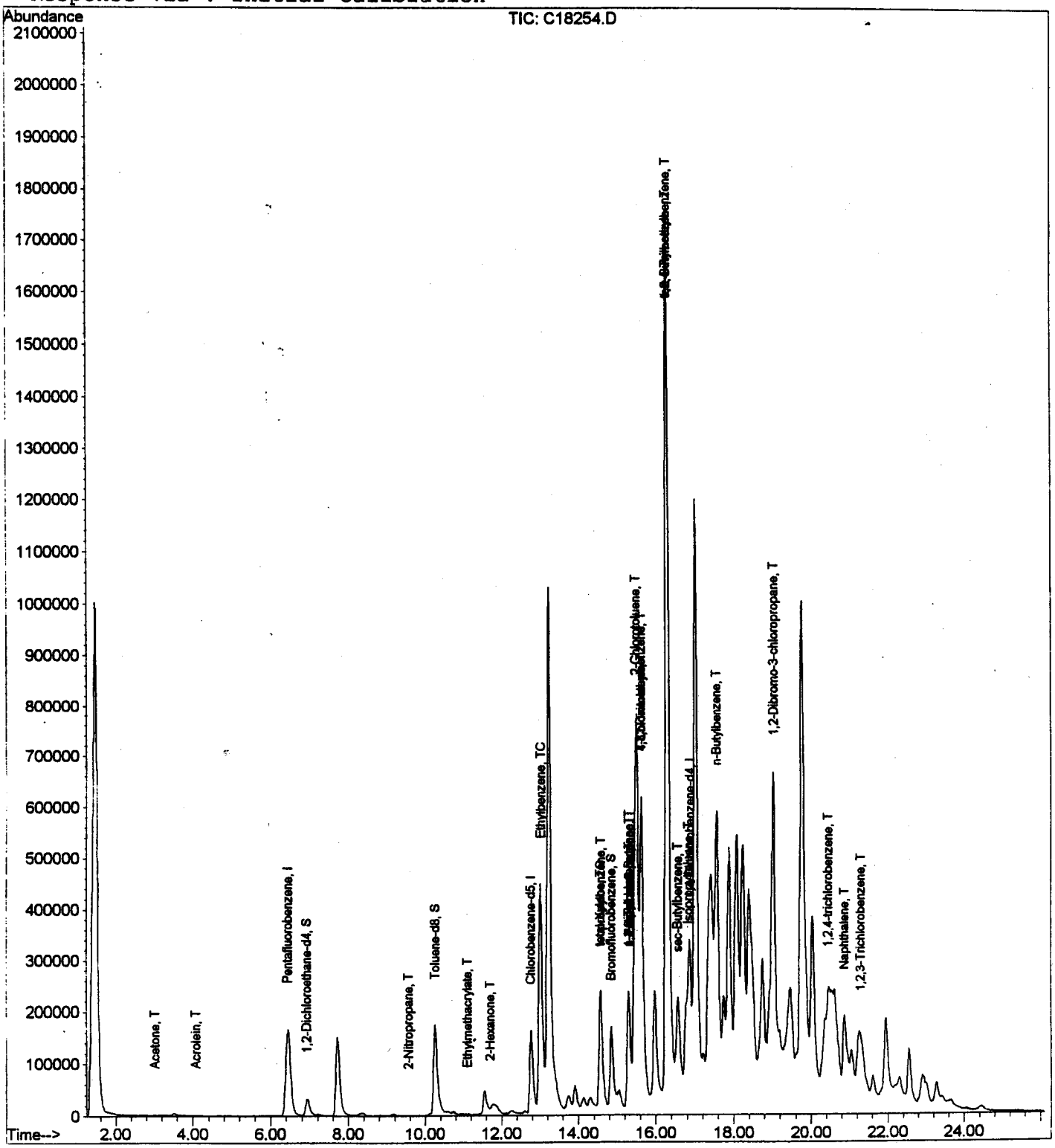
VR
01/03/01

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\122900\C18254.D Vial: 5
Acq On : 29 Dec 2000 17:50 Operator: TAG/VR
Sample : AC05540 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 29 18:16 2000 Quant Results File: 12290025.RES

Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 08:48:11 2000
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\122900\C18252.D Vial: 3
Acq On : 29 Dec 2000 16:31 Operator: TAG/VR
Sample : QVWBS 122900 C1 Inst : VOA-C
Misc : WATER BLANK SPIKE 25ml DF=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 29 16:57 2000 Quant Results File: 12290025.RES

Quant Method : C:\HPCHEM\1\DATA\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 10:24:33 2000
Response via : Initial Calibration
DataAcq Meth : 12290025

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.48	168	441828	10.00	ug\L	0.00
45) Chlorobenzene-d5	12.78	117	299378	10.00	ug\L	0.00
61) 1,4-Dichlorobenzene-d4	16.90	152	154687	10.00	ug\L	0.01
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	6.95	65	84053	9.59	ug\L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 95.90%			
46) Toluene-d8	10.27	98	439536	9.92	ug\L	0.00
Spiked Amount 10.000	Range 87 - 104		Recovery = 99.20%			
65) Bromofluorobenzene	14.87	95	209008	9.75	ug\L	0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 97.50%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.59	85	310413	10.83	ug\L	100
3) Chloromethane	1.78	50	105396	10.64	ug\L	99
4) Vinyl Chloride	1.83	62	128081	9.38	ug\L	99
5) Bromomethane	2.15	94	120210	9.92	ug\L	97
6) Chloroethane	2.22	64	78072	10.86	ug\L	97
7) Trichlorofluoromethane	2.43	101	380654	9.73	ug\L #	100
8) Acrolein	3.78	56	2225	8.94	ug\L #	70
9) Acrylonitrile	3.87	53	9055	19.02	ug\L #	86
10) 1,1-Dichloroethene	2.93	96	146565	9.99	ug\L	98
11) Acetone	3.02	58	1325	12.39	ug\L #	48
12) Iodomethane	3.12	142	176315	8.23	ug\L	99
13) Allylchloride	3.35	39	114936	9.83	ug\L #	22
14) Carbon Disulfide	3.17	76	347214	11.96	ug\L #	75
15) Acetonitrile	3.34	41	171531	98.92	ug\L	93
16) Methylene Chloride	3.52	86	72439	9.68	ug\L #	37
17) trans-1,2-Dichloroethene	3.82	96	151165	10.20	ug\L	95
18) MethylTertButylEther	3.81	73	118589	9.86	ug\L	96
19) 1,1-Dichloroethane	4.44	63	240832	10.24	ug\L	99
20) Vinyl Acetate	3.80	43	15206	5.65	ug\L #	73
21) 2,2-Dichloropropane	5.41	77	243858	9.46	ug\L	96
22) cis-1,2-Dichloroethene	5.48	96	129640	10.36	ug\L	94
23) 2-Butanone	5.59	72	640	6.34	ug\L #	1
24) Propionitrile	5.76	54	7155	65.55	ug\L #	57
25) Methacrylonitrile	5.96	41	115445	101.95	ug\L	99
26) Bromochloromethane	5.92	128	50095	10.51	ug\L #	76
27) Chloroform	6.09	83	276669	9.86	ug\L	98
28) 1,1,1-Trichloroethane	6.31	97	319325	9.59	ug\L #	75
29) Carbon Tetrachloride	6.58	119	291488	9.75	ug\L #	78
31) 1,1-Dichloropropene	6.60	77	78061	9.66	ug\L #	1

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\122900\C18252.D Vial: 3
Acq On : 29 Dec 2000 16:31 Operator: TAG/VR
Sample : QVWBS 122900 C1 Inst : VOA-C
Misc : WATER BLANK SPIKE 25ml DF=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 29 16:57 2000 Quant Results File: 12290025.RES

Quant Method : C:\HPCHEM\1\DATA\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 10:24:33 2000
Response via : Initial Calibration
DataAcq Meth : 12290025

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
33) Benzene	6.98	78	403173	10.09 ug\L		100
34) Isobutyl alcohol	7.15	43	13649	199.77 ug\L	#	44
35) 1,2-Dichloroethane	7.10	62	99870	9.74 ug\L		99
36) Trichloroethene	8.15	95	204478	9.77 ug\L		92
37) 1,2-Dichloropropane	8.56	63	114826	9.63 ug\L	#	95
38) Dibromomethane	8.80	93	53664	10.09 ug\L	#	85
39) Methylmethacrylate	8.87	69	20995	10.49 ug\L		92
40) Bromodichloromethane	9.11	83	194359	10.18 ug\L		98
41) 2-Nitropropane	9.54	43	5088	9.53 ug\L	#	100
42) 2-Chloroethyl-vinyl ether	9.70	63	64	2.89 ug\L	#	47
43) cis-1,3-Dichloropropene	9.88	75	139185	10.10 ug\L		97
44) 4-Methyl-2-Pentanone	10.18	85	1986	3.51 ug\L	#	1
47) Toluene	10.39	92	285515	10.03 ug\L		99
48) trans-1,3-Dichloropropene	10.88	75	91005	10.02 ug\L		96
49) Ethylmethacrylate	11.07	69	53266	9.94 ug\L	#	98
50) 1,1,2-Trichloroethane	11.18	83	52045	10.06 ug\L		97
51) Tetrachloroethene	11.32	164	185028	9.75 ug\L		94
52) 1,3-Dichloropropane	11.46	76	100302	10.52 ug\L		98
53) 2-Hexanone	11.68	43	13458	9.76 ug\L	#	94
54) Dibromochloromethane	11.84	129	108584	10.63 ug\L		99
55) 1,2-Dibromoethane	11.98	107	69127	10.20 ug\L	#	97
56) Chlorobenzene	12.83	112	320692	9.89 ug\L		95
57) 1,1,1,2-Tetrachloroethane	13.01	131	138347	10.14 ug\L		95
58) Ethylbenzene	13.03	91	590508	10.19 ug\L		99
59) total-Xylene	13.92	106	256990m	30.05 ug\L		
60) Styrene	13.97	104	293856	10.20 ug\L		96
62) Bromoform	14.33	173	48877	9.68 ug\L		98
63) Isopropylbenzene	14.58	105	716895	9.54 ug\L		98
64) 1,4-dichloro-2-Butene	15.27	75	46196	9.64 ug\L	#	100
66) Bromobenzene	15.08	156	131920	10.32 ug\L	#	58
67) 1,1,2,2-Tetrachloroethane	15.23	83	60062	10.24 ug\L		100
68) 1,2,3-Trichloropropane	15.27	75	46196	9.63 ug\L	#	100
69) n-Propylbenzene	15.31	91	810276	10.05 ug\L		97
70) 2-Chlorotoluene	15.44	91	411647	9.33 ug\L		94
71) 4-Chlorotoluene	15.64	91	568494	9.68 ug\L		98
72) 1,3,5-Trimethylbenzene	15.64	105	556617	9.67 ug\L		89
73) Pentachloroethane	16.25	167	87075	10.31 ug\L		97
74) tert-Butylbenzene	16.21	119	677135	9.71 ug\L		97
75) 1,2,4-Trimethylbenzene	16.30	105	535815	9.92 ug\L		99
76) sec-Butylbenzene	16.58	105	837110	9.67 ug\L		96
77) 1,3-Dichlorobenzene	16.77	146	236305	9.59 ug\L		96
78) Isopropyltoluene	16.87	119	665199	9.82 ug\L		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\122900\C18252.D Vial: 3
Acq On : 29 Dec 2000 16:31 Operator: TAG/VR
Sample : QVWBS 122900 C1 Inst : VOA-C
Misc : WATER BLANK SPIKE 25ml DF=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 29 16:57 2000 Quant Results File: 12290025.RES

Quant Method : C:\HPCHEM\1\DATA\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 10:24:33 2000
Response via : Initial Calibration
DataAcq Meth : 12290025

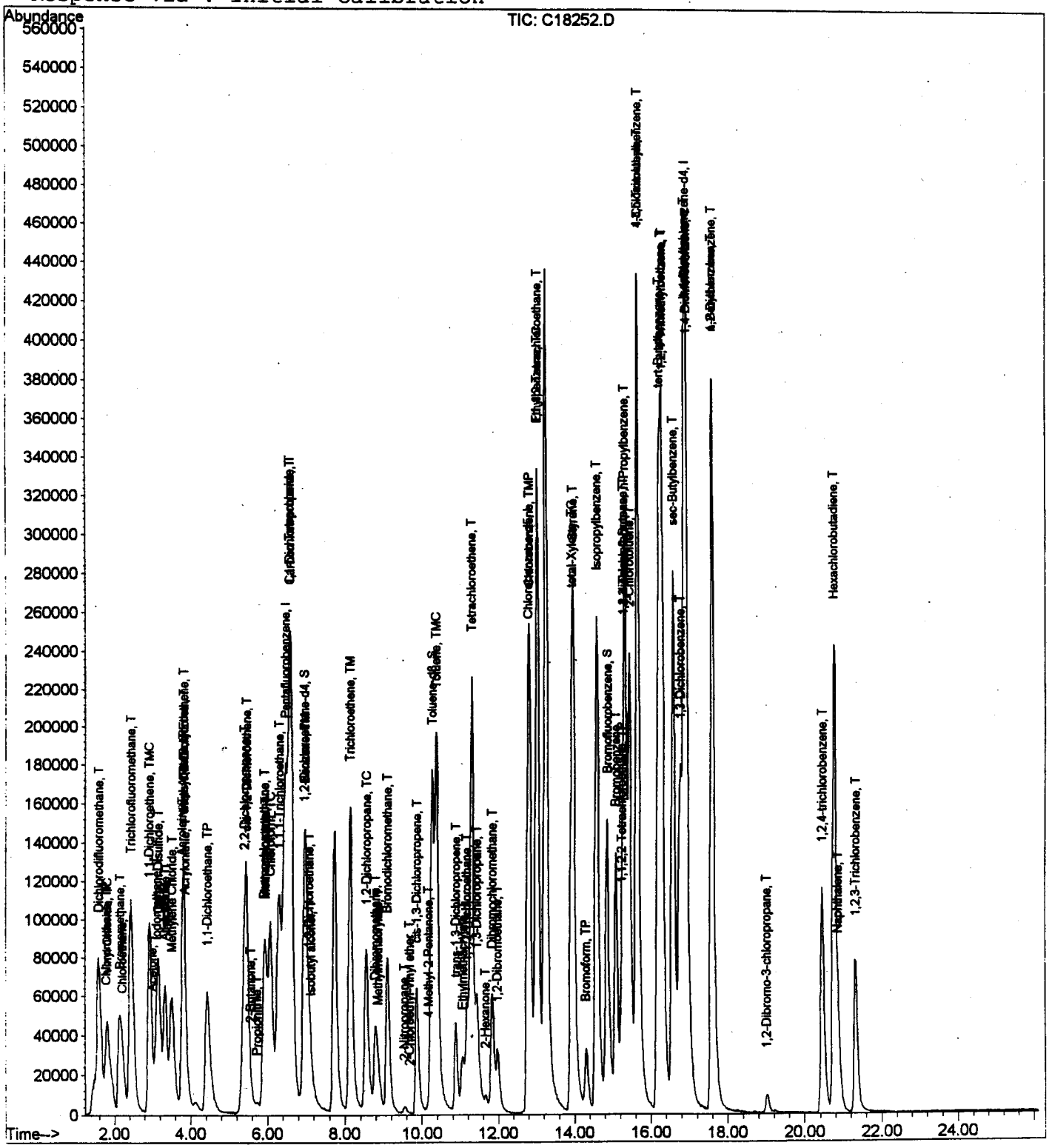
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
79) 1,4-Dichlorobenzene	16.94	146	272734	9.88 ug\L	97
80) 1,2-Dichlorobenzene	17.58	146	192538	9.94 ug\L	98
81) n-Butylbenzene	17.60	91	651871	9.90 ug\L	93
82) 1,2-Dibromo-3-chloropropan	19.02	75	9956	9.43 ug\L #	85
83) 1,2,4-trichlorobenzene	20.46	180	136509	9.82 ug\L	100
84) Hexachlorobutadiene	20.78	225	193053	9.79 ug\L	100
85) Naphthalene	20.88	128	90617	9.07 ug\L	100
86) 1,2,3-Trichlorobenzene	21.34	180	96623	9.91 ug\L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\122900\C18252.D Vial: 3
Acq On : 29 Dec 2000 16:31 Operator: TAG/VR
Sample : QVWBS 122900 C1 Inst : VOA-C
Misc : WATER BLANK SPIKE 25ml DF=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 29 16:57 2000 Quant Results File: 12290025.RES

Method : C:\HPCHEM\1\DATA\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 08:48:11 2000
Response via : Initial Calibration



VOA GC/MS CALIBRATION CHECKLIST
SW-846-8260B

DATE / INSTRUMENT: 12/28/00 / C	METHOD: 8260B
MATRIX: water - 25ml	

Are all standards within expiration dates for both stock and serial standards?	Y	N	NA
Are Tuning results compliant with method?	Y	N	NA
Are all Initial Calibration RSDs compliant for CCCs and non-CCC compounds?	Y	N	NA
If RSDs are non-compliant, was initial calibration curve constructed using one of the alternative methods from method 8000B? (List analytes below)	Y	N	NA

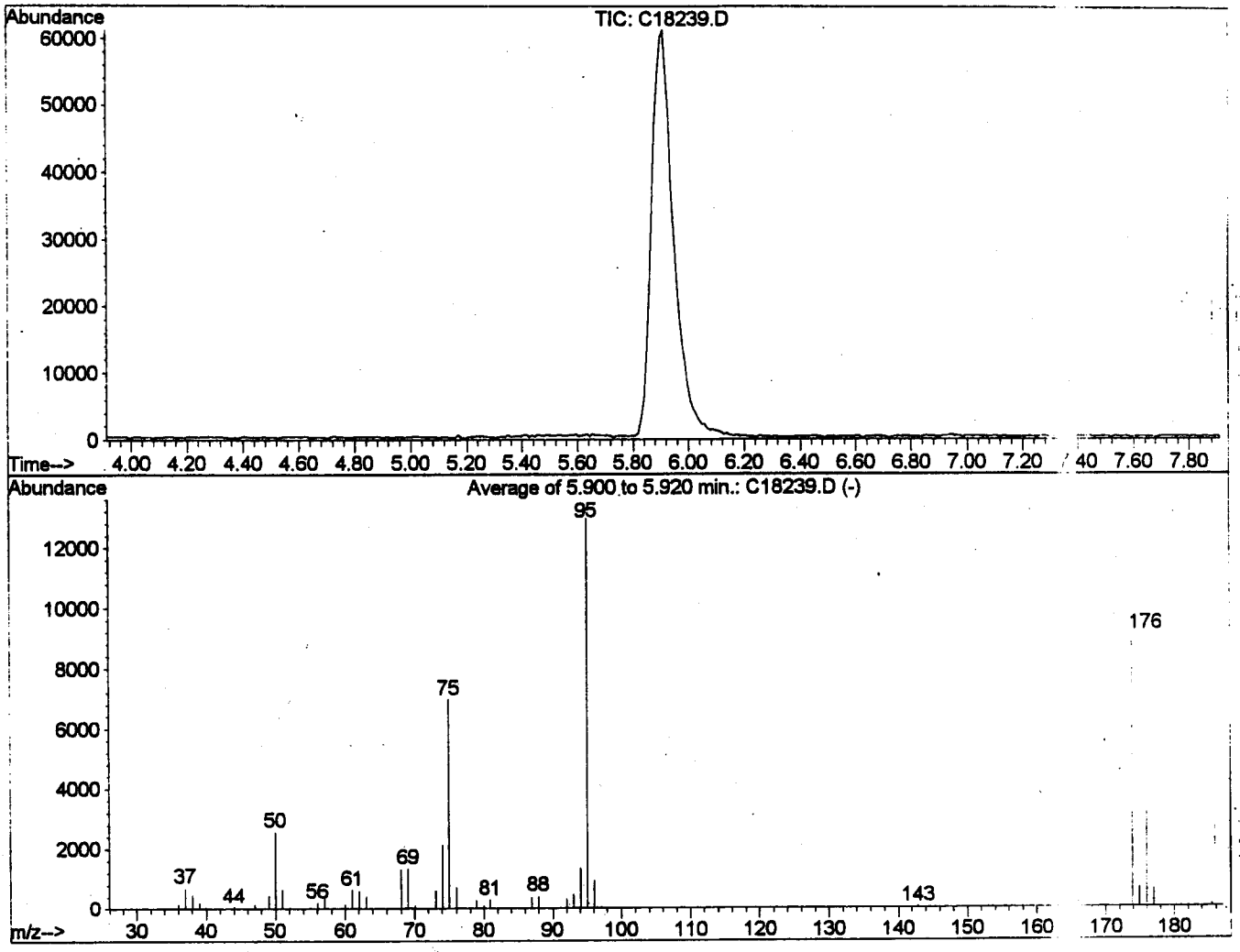
Is the runlog completely filled out (including review signature/date)? Y N NA

Are all mistakes single lined, initialled, and dated? Y N NA

Analyst: VR	Reviewer: Thomas A. Gatel
Date: 12/29/00 Time: 14:10	Date: 12/29/00 Time: 17:10

BFB

Data File : C:\HPCHEM\1\DATA\122800A\C18239.D Vial: 1
Acq On : 28 Dec 2000 15:59 Operator: TAG/VR
Sample : BFB 50ng V00048 Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\BFB01.M (RTE Integrator)
Title :



AutoFind: Scans 475, 476, 477; Background Corrected with Scan 463

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.8	2568	PASS
75	95	30	60	53.8	6981	PASS
95	95	100	100	100.0	12968	PASS
96	95	5	9	7.3	941	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	69.5	9017	PASS
175	174	5	9	7.6	681	PASS
176	174	95	101	100.7	9081	PASS
177	176	5	9	6.8	620	PASS

C18239.D BFB01.M Thu Dec 28 16:12:02 2000 RPT1 .

Response Factor Report VOA-C

Method : C:\HPCHEM\1\DATA\122800A\12280025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 08:38:15 2000
Response via : Initial Calibration

Calibration Files

1	=C18242.D	4	=C18241.D	10	=C18240.D
20	=C18243.D	30	=C18244.D	40	=C18245.D

		Compound	1	4	10	20	30	40	Avg	RSD
1)	I	Pentafluorobenzene	----------	----------	----------	ISTD	----------	----------	----------	
2)	T	Dichlorodifluoromet	0.652	0.624	0.621	0.664	0.649	0.682	0.6[illegible]9	3.58
3)	TP	Chloromethane	0.228	0.225	0.209	0.227	0.226	0.232	0.[illegible]4	3.59
4)	TC	Vinyl Chloride	0.301	0.303	0.297	0.319	0.310	0.323	0.[illegible]09	3.28
5)	T	Bromomethane	0.335	0.292	0.279	0.256	0.241	0.242	0.[illegible]4	13.11
6)	T	Chloroethane	0.166	0.165	0.170	0.163	0.158	0.154	0.[illegible]3	3.69
7)	T	Trichlorofluorometh	0.872	0.864	0.856	0.905	0.887	0.927	0.[illegible]5	3.04
8)	T	Acrolein		0.005	0.005	0.006	0.006	0.006	0.[illegible]06	8.82
9)	T	Acrylonitrile	0.005	0.009	0.010	0.012	0.012	0.012	0.[illegible]0	27.80
10)	TMC	1,1-Dichloroethene	0.322	0.319	0.325	0.342	0.336	0.348	0.[illegible]32	3.58
11)	T	Acetone		0.001	0.002	0.003	0.003	0.003	0.002	30.02
12)	T	Iodomethane	0.336	0.394	0.439	0.545	0.529	0.531	0.462	18.67
13)	T	Allylchloride	0.271	0.267	0.256	0.267	0.264	0.263	0.265	1.93
14)	T	Carbon Disulfide	0.619	0.620	0.785	0.621	0.608	0.688	0.657	10.51
15)	T	Acetonitrile	0.039	0.039	0.038	0.041	0.039	0.040	0.[illegible]39	2.11
16)	T	Methylene Chloride	0.669	0.183	0.148	0.150	0.152	0.161	0.[illegible]4	85.47
17)	T	trans-1,2-Dichloroe	0.317	0.325	0.326	0.344	0.342	0.358	0.[illegible]35	4.51
18)	T	MethylTertButylEthe	0.261	0.260	0.250	0.288	0.285	0.289	0.[illegible]72	6.27
19)	TP	1,1-Dichloroethane	0.524	0.517	0.523	0.543	0.536	0.551	0.[illegible]32	2.43
20)	T	Vinyl Acetate	0.058	0.060	0.057	0.064	0.062	0.064	0.[illegible]61	5.06
21)	T	2,2-Dichloropropane	0.484	0.548	0.570	0.623	0.625	0.650	0.[illegible]83	10.62
22)	T	cis-1,2-Dichloroeth	0.279	0.264	0.275	0.289	0.290	0.302	0.[illegible]83	4.72
23)	T	2-Butanone		0.002	0.004	0.004	0.007	0.006	0.[illegible]05	42.28
24)	T	Propionitrile	0.001	0.002	0.002	0.003	0.003	0.004	0.[illegible]3	43.33
25)	T	Methacrylonitrile	0.025	0.025	0.023	0.027	0.026	0.027	0.[illegible]6	5.27
26)	T	Bromochloromethane	0.101	0.102	0.103	0.113	0.111	0.117	0.[illegible]08	6.25
27)	TC	Chloroform	0.628	0.606	0.611	0.652	0.648	0.665	0.[illegible]35	3.78
28)	T	1,1,1-Trichloroetha	0.702	0.717	0.731	0.772	0.776	0.822	0.753	5.94
29)	T	Carbon Tetrachlorid	0.658	0.644	0.637	0.692	0.696	0.733	0.[illegible]76	5.45
30)	T	1,4-Dioxane		0.000	0.000	0.001	0.001	0.001	0.000	20.27
31)	T	1,1-Dichloropropene	0.180	0.179	0.183	0.186	0.183	0.187	0.183	1.64
32)	S	1,2-Dichloroethane-	0.204	0.193	0.185	0.204	0.200	0.206	0.198	4.08
33)	TM	Benzene	0.887	0.869	0.885	0.923	0.915	0.945	0.904	3.13
34)	T	Isobutyl alcohol	0.002	0.002	0.001	0.002	0.001	0.001	0.002	19.59
35)	T	1,2-Dichloroethane	0.222	0.221	0.221	0.246	0.238	0.245	0.232	5.25
36)	TM	Trichloroethene	0.471	0.451	0.462	0.481	0.486	0.490	0.4[illegible]3	3.20
37)	TC	1,2-Dichloropropane	0.254	0.261	0.256	0.279	0.283	0.287	0.2[illegible]0	5.48
38)	T	Dibromomethane	0.118	0.107	0.112	0.128	0.126	0.131	0.1[illegible]0	7.83
39)	T	Methylmethacrylate	0.037	0.039	0.042	0.051	0.051	0.051	0.0[illegible]5	14.42
40)	T	Bromodichloromethan	0.378	0.387	0.405	0.462	0.469	0.493	0.[illegible]2	11.18
41)	T	2-Nitropropane	0.003	0.007	0.010	0.014	0.015	0.014	0.0[illegible]0	43.69
42)	T	2-Chloroethyl-vinyl	0.008	0.001	0.001	0.004	0.006	0.004	0.0[illegible]4	72.40
43)	T	cis-1,3-Dichloropro	0.258	0.288	0.297	0.336	0.337	0.356	0.3[illegible]2	11.86
44)	T	4-Methyl-2-Pentanon		0.015	0.014	0.011	0.012	0.011	0.0[illegible]3	13.38

(#) = Out of Range

Response Factor Report VOA-C

Method : C:\HPCHEM\1\DATA\122800A\12280025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 08:38:15 2000
Response via : Initial Calibration

Calibration Files
1 =C18242.D 4 =C18241.D 10 =C18240.D
20 =C18243.D 30 =C18244.D 40 =C18245.D

		Compound	1	4	10	20	30	40	Avg	%RSD
45)	I	Chlorobenzene-d5	----------ISTD----------							
46)	S	Toluene-d8	1.384	1.511	1.498	1.510	1.500	1.481	1.481	3.28
47)	TMC	Toluene	0.879	0.934	0.945	0.984	0.982	0.982	0.951	4.35
48)	T	trans-1,3-Dichlorop	0.227	0.284	0.293	0.330	0.336	0.350	0.303	14.86
49)	T	Ethylmethacrylate	0.127	0.161	0.160	0.188	0.190	0.198	0.171	15.52
50)	T	1,1,2-Trichloroetha	0.152	0.169	0.171	0.182	0.181	0.182	0.173	6.70
51)	T	Tetrachloroethene	0.585	0.633	0.642	0.641	0.639	0.662	0.634	4.08
52)	T	1,3-Dichloropropane	0.288	0.307	0.316	0.332	0.329	0.339	0.318	5.92
53)	T	2-Hexanone	0.040	0.043	0.044	0.052	0.048	0.049	0.046	9.64
54)	T	Dibromochloromethan	0.259	0.324	0.320	0.370	0.379	0.395	0.341	14.77
55)	T	1,2-Dibromoethane	0.179	0.219	0.221	0.243	0.244	0.253	0.226	11.86
56)	TMP	Chlorobenzene	1.058	1.079	1.065	1.077	1.100	1.118	1.083	2.07
57)	T	1,1,1,2-Tetrachloro	0.388	0.439	0.446	0.480	0.483	0.498	0.456	8.85
58)	TC	Ethylbenzene	1.719	1.946	1.959	1.997	2.020	1.977	1.936	5.66
59)	TG	total-Xylene	0.270	0.282	0.287	0.282	0.295	0.299	0.286	3.61
60)	T	Styrene	0.816	0.907	0.979	1.024	1.015	1.033	0.962	8.87
61)	I	1,4-Dichlorobenzene-d	----------ISTD----------							
62)	TP	Bromoform	0.205	0.263	0.293	0.339	0.361	0.394	0.309	22.36
63)	T	Isopropylbenzene	4.522	4.844	4.895	4.877	4.953	5.053	4.857	3.71
64)	T	1,4-dichloro-2-Bute	0.389	0.265	0.275	0.300	0.301	0.329	0.310	14.40
65)	S	Bromofluorobenzene		1.387	1.394	1.375	1.366	1.407	1.386	1.16
66)	T	Bromobenzene	0.754	0.779	0.802	0.842	0.865	0.914	0.826	7.14
67)	TP	1,1,2,2-Tetrachloro	0.341	0.372	0.362	0.398	0.394	0.409	0.379	6.79
68)	T	1,2,3-Trichloroprop	0.389	0.266	0.275	0.300	0.301	0.329	0.310	14.35
69)	T	n-Propylbenzene	4.985	5.217	5.345	5.120	5.295	5.312	5.212	2.64
70)	T	2-Chlorotoluene	2.864	2.828	2.815	2.985	2.743	2.874	2.842	2.82
71)	T	4-Chlorotoluene	3.851	3.670	3.762	3.833	3.776	3.895	3.798	2.09
72)	T	1,3,5-Trimethylbenz	3.545	3.748	3.793	3.732	3.769	3.744	3.722	2.40
73)	T	Pentachloroethane	0.427	0.500	0.537	0.585	0.595	0.633	0.546	13.65
74)	T	tert-Butylbenzene	4.278	4.531	4.525	4.525	4.516	4.664	4.507	2.78
75)	T	1,2,4-Trimethylbenz	3.448	3.513	3.479	3.481	3.487	3.548	3.493	0.98
76)	T	sec-Butylbenzene	5.331	5.616	5.628	5.611	5.617	5.773	5.596	2.57
77)	T	1,3-Dichlorobenzene	1.564	1.578	1.603	1.557	1.609	1.645	1.593	2.07
78)	T	Isopropyltoluene	4.094	4.390	4.449	4.420	4.388	4.528	4.378	3.39
79)	T	1,4-Dichlorobenzene	1.846	1.781	1.682	1.783	1.736	1.875	1.784	3.96
80)	T	1,2-Dichlorobenzene	1.279	1.241	1.220	1.236	1.240	1.298	1.252	2.35
81)	T	n-Butylbenzene	3.881	4.213	4.331	4.329	4.365	4.421	4.257	4.61
82)	T	1,2-Dibromo-3-chlor	0.046	0.060	0.059	0.073	0.076	0.075	0.065	18.14
83)	T	1,2,4-trichlorobenz	0.916	0.845	0.837	0.910	0.923	0.964	0.899	5.44
84)	T	Hexachlorobutadiene	1.299	1.366	1.323	1.280	1.206	1.177	1.275	5.62
85)	T	Naphthalene	0.978	0.686	0.555	0.637	0.677	0.735	0.711	20.22
86)	T	1,2,3-Trichlorobenz	0.677	0.631	0.577	0.618	0.626	0.654	0.630	5.37

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\122800A\C18242.D
Acq On : 28 Dec 2000 17:21
Sample : ICAL 1 ppb (V00083,V00057)
Misc : QC
MS Integration Params: rteint.p
Quant Time: Dec 29 8:38 2000

Vial: 3
Operator: TAG/VR
Inst : VOA-C
Multiplr: 1.00

Quant Results File: 12280025.RES

Quant Method : c:\hpchem\1\data\122800A\12280025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Dec 12 10:52:52 2000
Response via : Initial Calibration
DataAcq Meth : 12280025

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Pentafluorobenzene	6.48	168	416006	10.00 ug\L		0.01
45) Chlorobenzene-d5	12.79	117	302874	10.00 ug\L		0.00
61) 1,4-Dichlorobenzene-d4	16.90	152	146495	10.00 ug\L		0.00
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	6.94	65	8483	0.94 ug\L		-0.03
Spiked Amount 10.000	Range 80 - 120		Recovery = 9.40%#			
46) Toluene-d8	10.27	98	41924m	0.96 ug\L		0.00
Spiked Amount 10.000	Range 87 - 104		Recovery = 9.60%#			
65) Bromofluorobenzene	14.85	95	22018	1.11 ug\L		-0.02
Spiked Amount 10.000	Range 84 - 110		Recovery = 11.10%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.61	85	27118	1.10 ug\L		99
3) Chloromethane	1.78	50	9467	1.15 ug\L		96
4) Vinyl Chloride	1.84	62	12536	1.07 ug\L		96
6) Chloroethane	2.21	64	6920	1.14 ug\L	#	69
7) Trichlorofluoromethane	2.40	101	36281	0.99 ug\L	#	100
8) Acrolein	3.81	56	126	9.19 ug\L	#	95
9) Acrylonitrile	3.86	53	408m	1.52 ug\L		
10) 1,1-Dichloroethene	2.93	96	13416	1.02 ug\L		96
11) Acetone	2.64	58	0m	3.94 ug\L		
12) Iodomethane	3.10	142	13961m	1.81 ug\L		
13) Allylchloride	3.35	39	11286m	1.01 ug\L		
14) Carbon Disulfide	3.17	76	25767	1.05 ug\L		97
15) Acetonitrile	3.31	41	16126	10.05 ug\L	#	34
16) Methylene Chloride	3.51	86	27816m	4.93 ug\L		
17) trans-1,2-Dichloroethene	3.81	96	13198	0.98 ug\L		98
18) MethylTertButylEther	3.81	73	10857m	0.84 ug\L		
19) 1,1-Dichloroethane	4.45	63	21802	1.01 ug\L	#	97
20) Vinyl Acetate	3.81	43	2399m	0.78 ug\L		
21) 2,2-Dichloropropane	5.40	77	20122	0.82 ug\L	#	74
22) cis-1,2-Dichloroethene	5.46	96	11590	0.98 ug\L	#	11
24) Propionitrile	5.77	54	265m	17.71 ug\L		
25) Methacrylonitrile	5.96	41	10574m	8.91 ug\L		
26) Bromochloromethane	5.93	128	4183	0.89 ug\L	#	80
27) Chloroform	6.08	83	26114	0.98 ug\L		98
28) 1,1,1-Trichloroethane	6.30	97	29222	0.92 ug\L	#	34
29) Carbon Tetrachloride	6.60	119	27354	0.96 ug\L	#	3
30) 1,4-Dioxane	8.48	88	70	3.08 ug\L	#	24
31) 1,1-Dichloropropene	6.60	77	7493	1.00 ug\L	#	1
33) Benzene	6.99	78	36912m	1.01 ug\L		

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\122800A\C18242.D
Acq On : 28 Dec 2000 17:21
Sample : ICAL 1 ppb (V00083,V00057)
Misc : QC
MS Integration Params: rteint.p
Quant Time: Dec 29 8:38 2000

Vial:
Operator: [illegible]G/VR
Inst : [illegible]A-C
Multiplr: [illegible]00

Quant Results File: [illegible]280025.RES

Quant Method : c:\hpchem\1\data\122800A\12280025.M (RTE Integrat[illegible]r)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Dec 12 10:52:52 2000
Response via : Initial Calibration
DataAcq Meth : 12280025

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
34)	Isobutyl alcohol	7.08	43	1800m	23.78 ug\l		
35)	1,2-Dichloroethane	7.08	62	9238	0.90 ug\l	#	83
36)	Trichloroethene	8.14	95	19580	1.00 ug\l		95
37)	1,2-Dichloropropane	8.58	63	10558	0.91 ug\l	#	89
38)	Dibromomethane	8.81	93	4918m	0.91 ug\l		
39)	Methylmethacrylate	8.90	69	1544m	0.69 ug\l		
40)	Bromodichloromethane	9.10	83	15706m	0.80 ug\l		
43)	cis-1,3-Dichloropropene	9.88	75	10730	0.74 ug\l		95
44)	4-Methyl-2-Pentanone	10.24	85	61m	-3.24 ug\l		
47)	Toluene	10.38	92	26611	0.98 ug\l		97
48)	trans-1,3-Dichloropropene	10.88	75	6887m	0.69 ug\l		
49)	Ethylmethacrylate	11.09	69	3849m	0.66 ug\l		
50)	1,1,2-Trichloroethane	11.19	83	4615	0.88 ug\l		91
51)	Tetrachloroethene	11.31	164	17711	0.99 ug\l		92
52)	1,3-Dichloropropane	11.45	76	8726	0.86 ug\l	#	42
53)	2-Hexanone	11.72	43	1199m	0.79 ug\l		
54)	Dibromochloromethane	11.85	129	7842	0.69 ug\l		97
55)	1,2-Dibromoethane	11.98	107	5417	0.73 ug\l	#	94
56)	Chlorobenzene	12.83	112	32036m	1.03 ug\l		
57)	1,1,1,2-Tetrachloroethane	13.01	131	11743m	0.82 ug\l		
58)	Ethylbenzene	13.04	91	52076	0.92 ug\l		100
59)	total-Xylene	13.93	106	24508m	2.90 ug\l		
60)	Styrene	13.97	104	24702m	0.83 ug\l		
62)	Bromoform	14.33	173	3007m	1.25 ug\l		
63)	Isopropylbenzene	14.59	105	66239	1.04 ug\l		99
64)	1,4-dichloro-2-Butene	15.26	75	5694	1.27 ug\l	#	100
66)	Bromobenzene	15.09	156	11053	0.95 ug\l	#	75
67)	1,1,2,2-Tetrachloroethane	15.24	83	4990m	0.88 ug\l		
68)	1,2,3-Trichloropropane	15.26	75	5694	1.27 ug\l	#	100
69)	n-Propylbenzene	15.32	91	73022	1.06 ug\l		96
70)	2-Chlorotoluene	15.42	91	41963	1.11 ug\l		97
71)	4-Chlorotoluene	15.65	91	56419	1.09 ug\l	#	96
72)	1,3,5-Trimethylbenzene	15.65	105	51931	1.06 ug\l		90
73)	Pentachloroethane	16.25	167	6260m	0.76 ug\l		
74)	tert-Butylbenzene	16.20	119	62675	1.02 ug\l		98
75)	1,2,4-Trimethylbenzene	16.30	105	50505	1.06 ug\l		96
76)	sec-Butylbenzene	16.59	105	78103	1.06 ug\l		98
77)	1,3-Dichlorobenzene	16.76	146	22908	1.02 ug\l		96
78)	Isopropyltoluene	16.87	119	59978	1.00 ug\l		99
79)	1,4-Dichlorobenzene	16.94	146	27050	1.07 ug\l		95
80)	1,2-Dichlorobenzene	17.59	146	18732	1.04 ug\l		97
81)	n-Butylbenzene	17.59	91	56849	0.98 ug\l	#	55

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\122800A\C18242.D Vial: 3
Acq On : 28 Dec 2000 17:21 Operator: [illegible]G/VR
Sample : ICAL 1 ppb (V00083,V00057) Inst : [illegible]A-C
Misc : QC Multiplr: [illegible]
MS Integration Params: rteint.p
Quant Time: Dec 29 8:38 2000 Quant Results File: [illegible]280025.RES

Quant Method : c:\hpchem\1\data\122800A\12280025.M (RTE Integrat[illegible])
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Dec 12 10:52:52 2000
Response via : Initial Calibration
DataAcq Meth : 12280025

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82)	1,2-Dibromo-3-chloropropan	19.04	75	675m	0.62 ug\l	
83)	1,2,4-trichlorobenzene	20.47	180	13412	0.92 ug\l	100
84)	Hexachlorobutadiene	20.78	225	19027	1.07 ug\l	100
85)	Naphthalene	20.89	128	14327m	1.00 ug\l	
86)	1,2,3-Trichlorobenzene	21.34	180	9916m	0.94 ug\l	

(#) = qualifier out of range (m) = manual integration

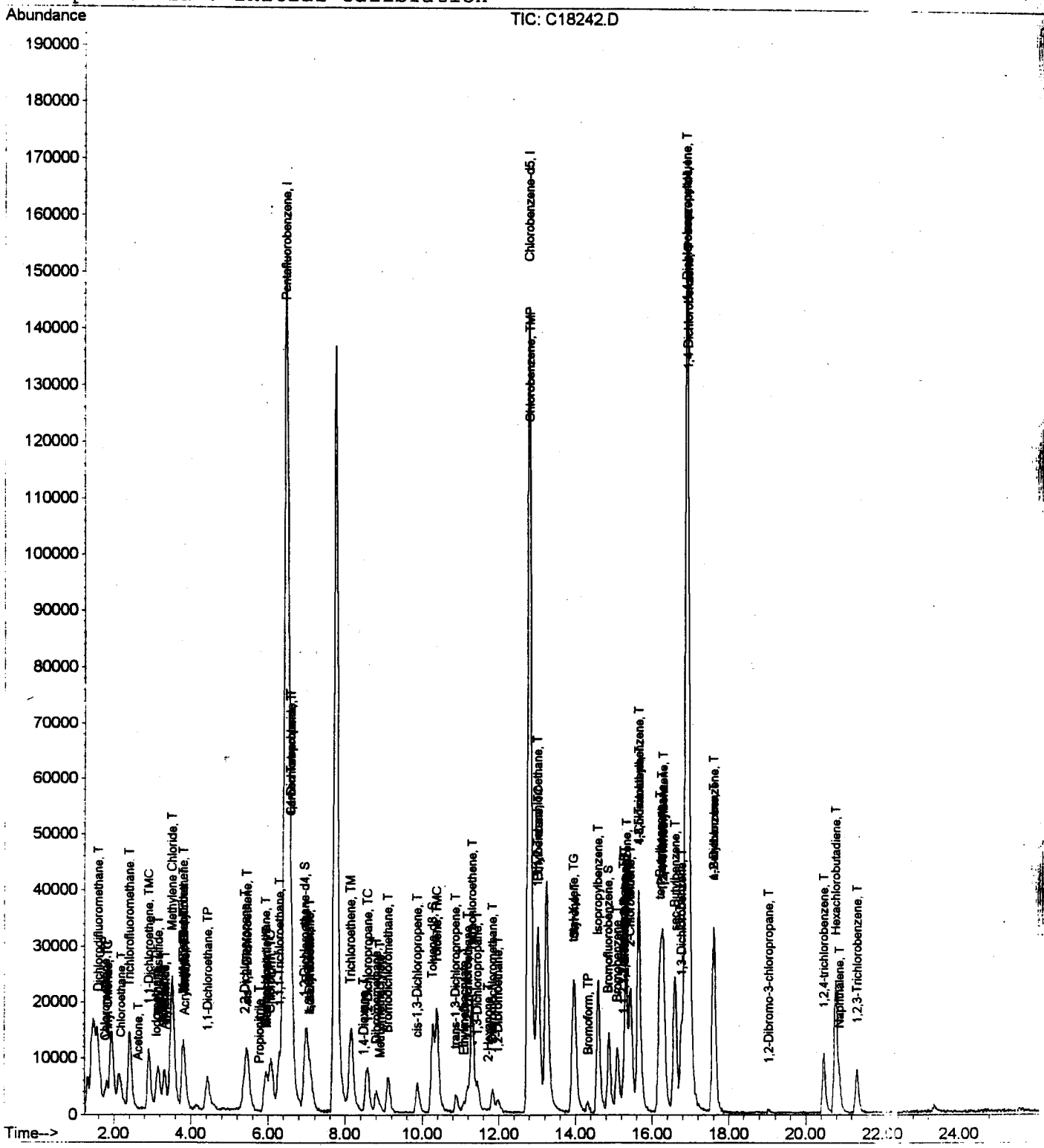
Quantitation Report

Data File : C:\HPCHEM\1\DATA\122800A\C18242.D
Acq On : 28 Dec 2000 17:21
Sample : ICAL 1 ppb (V00083,V00057)
Misc : QC
MS Integration Params: rteint.p
Quant Time: Dec 29 8:38 2000

Vial: 3
Operator: TAG/VR
Inst : VOA-C
Multiplr: 1.00

Quant Results File: 12280025.RES

Method : C:\HPCHEM\1\DATA\122800A\12280025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 08:48:11 2000
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\122800A\C18241.D Vial: [illegible]
Acq On : 28 Dec 2000 16:50 Operator: [illegible]G/VR
Sample : ICAL 4 ppb (V00083,V00057) Inst : [illegible]A-C
Misc : QC Multiplr: [illegible]00
MS Integration Params: rteint.p
Quant Time: Dec 29 8:34 2000 Quant Results File: [illegible]280025.RES

Quant Method : c:\hpchem\1\data\122800A\12280025.M (RTE Integra[illegible])
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Dec 12 10:52:52 2000
Response via : Initial Calibration
DataAcq Meth : 12280025

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	6.46	168	413543	10.00 ug\L	0.00
45) Chlorobenzene-d5	12.78	117	273956	10.00 ug\L	0.00
61) 1,4-Dichlorobenzene-d4	16.91	152	140156	10.00 ug\L	0.00
System Monitoring Compounds					
32) 1,2-Dichloroethane-d4	6.97	65	31884	3.54 ug\L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery	= 35.40%#	
46) Toluene-d8	10.28	98	165574	4.21 ug\L	0.00
Spiked Amount 10.000	Range 87 - 104		Recovery	= 42.[illegible]0 #	
65) Bromofluorobenzene	14.87	95	77772	4.10 ug\L	0.00
Spiked Amount 10.000	Range 84 - 110		Recovery	= 41.[illegible]0%#	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.59	85	103292	4.23 ug\L	98
3) Chloromethane	1.78	50	37144	4.52 ug\L	97
4) Vinyl Chloride	1.85	62	50192	4.30 ug\L	99
5) Bromomethane	2.13	94	48229	3.68 ug\L	97
6) Chloroethane	2.21	64	27366	4.54 ug\L	97
7) Trichlorofluoromethane	2.43	101	142899	3.90 ug\L #	100
8) Acrolein	3.83	56	1653	15.79 ug\L #	70
9) Acrylonitrile	3.89	53	2928m	6.56 ug\L	
10) 1,1-Dichloroethene	2.93	96	52687	4.03 ug\L	97
11) Acetone	3.82	58	193m	5.54 ug\L	
12) Iodomethane	3.13	142	65131m	4.20 ug\L	
13) Allylchloride	3.33	39	44143	3.96 ug\L #	33
14) Carbon Disulfide	3.18	76	102494	4.21 ug\L	97
15) Acetonitrile	3.33	41	64196	40.25 ug\L	91
16) Methylene Chloride	3.51	86	30252	5.39 ug\L #	36
17) trans-1,2-Dichloroethene	3.81	96	53753	4.01 ug\L	99
18) MethylTertButylEther	3.83	73	43059m	3.37 ug\L	
19) 1,1-Dichloroethane	4.43	63	85568	3.97 ug\L	100
20) Vinyl Acetate	3.80	43	9867	3.25 ug\L #	73
21) 2,2-Dichloropropane	5.42	77	90586	3.70 ug\L	95
22) cis-1,2-Dichloroethene	5.46	96	43659	3.70 ug\L	98
23) 2-Butanone	5.55	72	321m	8.07 ug\L	
24) Propionitrile	5.76	54	3575m	38.54 ug\L	
25) Methacrylonitrile	5.97	41	41483	35.18 ug\L #	41
26) Bromochloromethane	5.92	128	16903	3.64 ug\L #	80
27) Chloroform	6.10	83	100259	3.77 ug\L	100
28) 1,1,1-Trichloroethane	6.30	97	118643	3.76 ug\L #	70
29) Carbon Tetrachloride	6.59	119	106451	3.76 ug\L #	51
30) 1,4-Dioxane	8.90	88	1034m	45.80 ug\L	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\122800A\C18241.D
Acq On : 28 Dec 2000 16:50
Sample : ICAL 4 ppb (V00083,V00057)
Misc : QC
MS Integration Params: rteint.p
Quant Time: Dec 29 8:34 2000

Vial: [illegible]
Operator: [illegible]G/VR
Inst : [illegible]A-C
Multiplr: [illegible]00

Quant Results File: [illegible]280025.RES

Quant Method : c:\hpchem\1\data\122800A\12280025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Dec 12 10:52:52 2000
Response via : Initial Calibration
DataAcq Meth : 12280025

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
31) 1,1-Dichloropropene	6.62	77	29624	3.99 ug\l	#	1
33) Benzene	6.97	78	143775	3.97 ug\l		100
34) Isobutyl alcohol	7.17	43	6416m	96.78 ug\l		
35) 1,2-Dichloroethane	7.10	62	36487	3.57 ug\l		97
36) Trichloroethene	8.16	95	74552	3.81 ug\l		91
37) 1,2-Dichloropropane	8.56	63	43202	3.76 ug\l		98
38) Dibromomethane	8.79	93	17709	3.28 ug\l	#	78
39) Methylmethacrylate	8.87	69	6460	2.90 ug\l	#	77
40) Bromodichloromethane	9.11	83	63971	3.27 ug\l		97
41) 2-Nitropropane	9.54	43	1149m	1.87 ug\l		
42) 2-Chloroethyl-vinyl ether	9.58	63	135m	2.37 ug\l		
43) cis-1,3-Dichloropropene	9.87	75	47615	3.31 ug\l		96
44) 4-Methyl-2-Pentanone	10.21	85	2447m	2.36 ug\l		
47) Toluene	10.39	92	102298	4.16 ug\l		98
48) trans-1,3-Dichloropropene	10.89	75	31120m	3.44 ug\l		
49) Ethylmethacrylate	11.09	69	17669m	3.34 ug\l		
50) 1,1,2-Trichloroethane	11.20	83	18501	3.90 ug\l		93
51) Tetrachloroethene	11.31	164	69410	4.28 ug\l		93
52) 1,3-Dichloropropane	11.45	76	33626	3.66 ug\l		98
53) 2-Hexanone	11.69	43	4742m	3.44 ug\l		
54) Dibromochloromethane	11.86	129	35501	3.47 ug\l		95
55) 1,2-Dibromoethane	11.97	107	24014m	3.60 ug\l		
56) Chlorobenzene	12.82	112	118259	4.20 ug\l		97
57) 1,1,1,2-Tetrachloroethane	13.01	131	48102	3.71 ug\l		94
58) Ethylbenzene	13.03	91	213193	4.15 ug\l		98
59) total-Xylene	13.94	106	92834m	12.13 ug\l		
60) Styrene	13.99	104	99413	3.71 ug\l		94
62) Bromoform	14.32	173	14731m	3.49 ug\l		
63) Isopropylbenzene	14.59	105	271585	4.45 ug\l		99
64) 1,4-dichloro-2-Butene	15.27	75	14873m	3.47 ug\l		
66) Bromobenzene	15.08	156	43674m	3.93 ug\l		
67) 1,1,2,2-Tetrachloroethane	15.24	83	20834	3.84 ug\l		99
68) 1,2,3-Trichloropropane	15.27	75	14914m	3.48 ug\l		
69) n-Propylbenzene	15.32	91	292494	4.42 ug\l		96
70) 2-Chlorotoluene	15.43	91	158535m	4.40 ug\l		
71) 4-Chlorotoluene	15.64	91	205757	4.16 ug\l		97
72) 1,3,5-Trimethylbenzene	15.64	105	210110	4.48 ug\l		89
73) Pentachloroethane	16.25	167	28042	3.57 ug\l		98
74) tert-Butylbenzene	16.21	119	254024	4.34 ug\l		98
75) 1,2,4-Trimethylbenzene	16.29	105	196927	4.33 ug\l		99
76) sec-Butylbenzene	16.59	105	314838	4.45 ug\l		95
77) 1,3-Dichlorobenzene	16.78	146	88493	4.12 ug\l		97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\122800A\C18241.D Vial:
Acq On : 28 Dec 2000 16:50 Operator: [illegible]
Sample : ICAL 4 ppb (V00083,V00057) Inst : [illegible]A-C
Misc : QC Multiplr: [illegible]00
MS Integration Params: rteint.p
Quant Time: Dec 29 8:34 2000 Quant Results File: [illegible]280025.RES

Quant Method : c:\hpchem\1\data\122800A\12280025.M (RTE Integra[illegible])
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Dec 12 10:52:52 2000
Response via : Initial Calibration
DataAcq Meth : 12280025

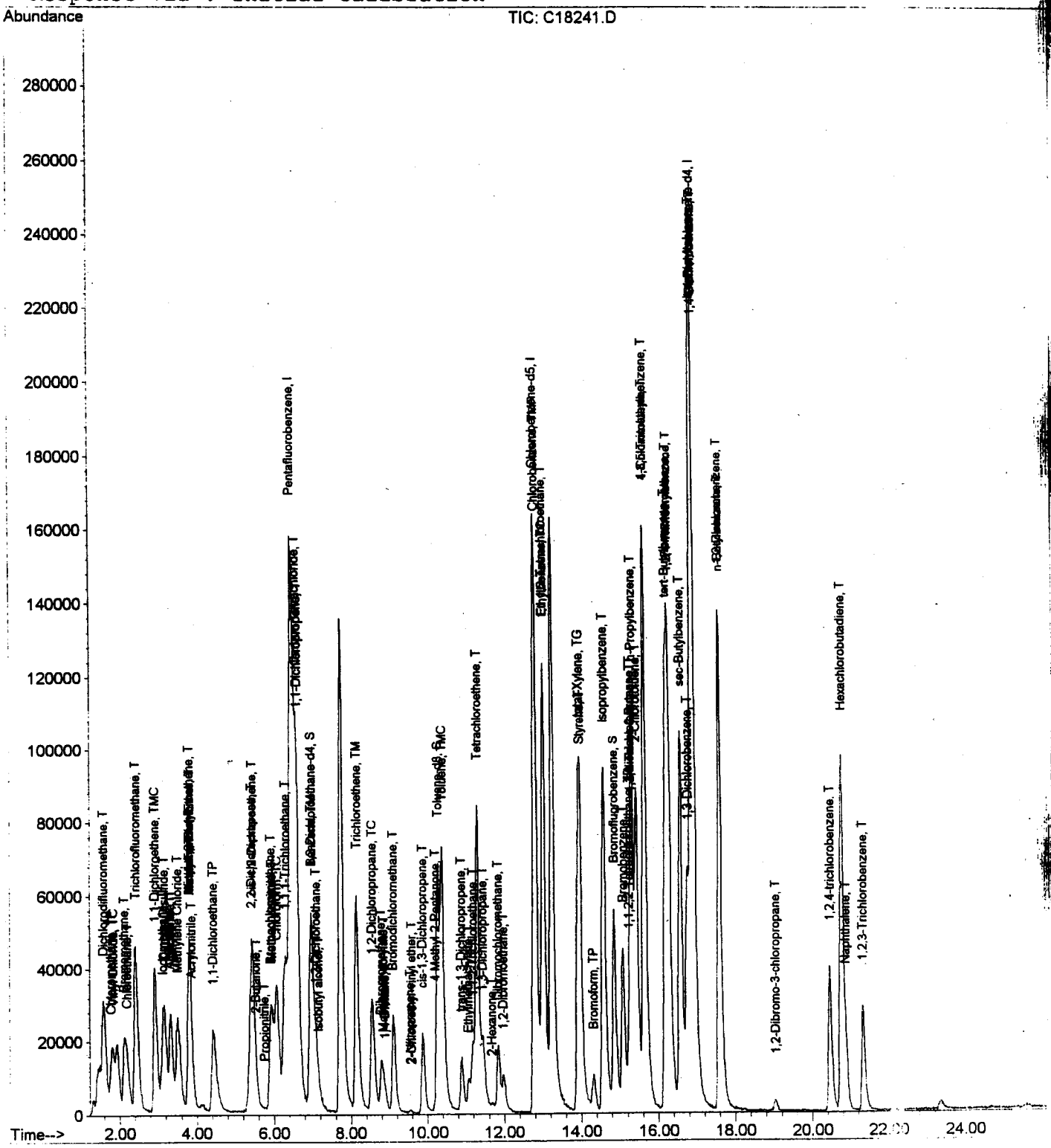
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
78)	Isopropyltoluene	16.88	119	246120	4.31 ug\l		97
79)	1,4-Dichlorobenzene	16.94	146	99837	4.12 ug\l		100
80)	1,2-Dichlorobenzene	17.59	146	69570	4.05 ug\l		98
81)	n-Butylbenzene	17.61	91	236216	4.26 ug\l		94
82)	1,2-Dibromo-3-chloropropan	19.06	75	3338	3.19 ug\l	#	80
83)	1,2,4-trichlorobenzene	20.47	180	47350m	3.40 ug\l		
84)	Hexachlorobutadiene	20.76	225	76603	4.51 ug\l		100
85)	Naphthalene	20.88	128	38446m	3.35 ug\l		
86)	1,2,3-Trichlorobenzene	21.32	180	35369m	3.52 ug\l		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\122800A\C18241.D Vial: [illegible]
Acq On : 28 Dec 2000 16:50 Operator: TAG/VR
Sample : ICAL 4 ppb (V00083,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 29 8:34 2000 Quant Results File: 12280025.RES

Method : C:\HPCHEM\1\DATA\122800A\12280025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 08:48:11 2000
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\122800A\C18240.D
Acq On : 28 Dec 2000 16:20
Sample : ICAL 10 ppb (V00083,V00057)
Misc : QC
MS Integration Params: rteint.p
Quant Time: Dec 29 8:30 2000

Vial:
Operator: [illegible]G/VR
Inst : [illegible]A-C
Multiplr: [illegible]00

Quant Results File: [illegible]280025.RES

Quant Method : c:\hpchem\1\data\122800A\12280025.M (RTE Integrat[illegible])
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Dec 12 10:52:52 2000
Response via : Initial Calibration
DataAcq Meth : 12280025

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.46	168	408233	10.00	ug\l	0.00
45) Chlorobenzene-d5	12.78	117	269417	10.00	ug\l	0.00
61) 1,4-Dichlorobenzene-d4	16.89	152	136003	10.00	ug\l	-0.01
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	6.96	65	75499	8.50	ug\l	-0.01
Spiked Amount 10.000	Range 80 - 120		Recovery = 85.[illegible]0%			
46) Toluene-d8	10.28	98	403487	10.42	ug\l	0.00
Spiked Amount 10.000	Range 87 - 104		Recovery = 104.[illegible]0%			
65) Bromofluorobenzene	14.87	95	189653	10.32	ug\l	0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 103.[illegible]0%			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.58	85	253354	10.51	ug\L	99
3) Chloromethane	1.77	50	85126	10.49	ug\L	100
4) Vinyl Chloride	1.84	62	121413	10.54	ug\l	100
5) Bromomethane	2.13	94	113916	11.57	ug\l	98
6) Chloroethane	2.20	64	69410	11.67	ug\l	97
7) Trichlorofluoromethane	2.44	101	349621	9.67	ug\l #	100
8) Acrolein	3.81	56	4241m	27.21	ug\l	
9) Acrylonitrile	3.86	53	7825m	16.55	ug\l	
10) 1,1-Dichloroethene	2.92	96	132521	10.26	ug\l	98
11) Acetone	3.04	58	867m	11.25	ug\l	
12) Iodomethane	3.12	142	179276	9.64	ug\L	100
13) Allylchloride	3.33	39	104537	9.49	ug\l #	22
14) Carbon Disulfide	3.17	76	320434	13.33	ug\l	95
15) Acetonitrile	3.35	41	156566	99.43	ug\l	93
16) Methylene Chloride	3.51	86	60474	10.92	ug\l #	35
17) trans-1,2-Dichloroethene	3.82	96	133180	10.07	ug\l	97
18) MethylTertButylEther	3.81	73	101999	8.08	ug\l	95
19) 1,1-Dichloroethane	4.44	63	213567	10.04	ug\l	100
20) Vinyl Acetate	3.80	43	23454m	7.82	ug\L	
21) 2,2-Dichloropropane	5.42	77	232830	9.63	ug\L	95
22) cis-1,2-Dichloroethene	5.47	96	112367	9.65	ug\L	95
23) 2-Butanone	5.54	72	1577m	12.73	ug\L	
24) Propionitrile	5.79	54	9834m	78.71	ug\l	
25) Methacrylonitrile	5.95	41	95509	82.05	ug\l	97
26) Bromochloromethane	5.92	128	42191	9.19	ug\l	84
27) Chloroform	6.10	83	249252	9.49	ug\l	99
28) 1,1,1-Trichloroethane	6.31	97	298450	9.57	ug\l #	77
29) Carbon Tetrachloride	6.59	119	259969	9.30	ug\l #	76
30) 1,4-Dioxane	8.96	88	3692m	165.67	ug\L	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\122800A\C18240.D
Acq On : 28 Dec 2000 16:20
Sample : ICAL 10 ppb (V00083,V00057)
Misc : QC
MS Integration Params: rteint.p
Quant Time: Dec 29 8:30 2000

Vial: 1
Operator: TAG/VR
Inst : VOA-C
Multiplr: 1.00

Quant Results File: 280025.RES

Quant Method : c:\hpchem\1\data\122800A\12280025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Dec 12 10:52:52 2000
Response via : Initial Calibration
DataAcq Meth : 12280025

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
31)	1,1-Dichloropropene	6.60	77	74758	10.19 ug\L	#	1
33)	Benzene	6.99	78	361258	10.11 ug\L		100
34)	Isobutyl alcohol	7.17	43	11600m	180.95 ug\L		
35)	1,2-Dichloroethane	7.09	62	90261	8.96 ug\L	#	87
36)	Trichloroethene	8.16	95	188687	9.77 ug\L		92
37)	1,2-Dichloropropane	8.55	63	104305	9.21 ug\L	#	96
38)	Dibromomethane	8.79	93	45880	8.60 ug\L	#	84
39)	Methylmethacrylate	8.87	69	17326	7.89 ug\L		89
40)	Bromodichloromethane	9.12	83	165415	8.57 ug\L		99
41)	2-Nitropropane	9.54	43	4129m	6.79 ug\L		
42)	2-Chloroethyl-vinyl ether	9.67	63	444m	2.51 ug\L		
43)	cis-1,3-Dichloropropene	9.88	75	121181	8.52 ug\L		99
44)	4-Methyl-2-Pentanone	10.21	85	5906m	10.66 ug\L		
47)	Toluene	10.39	92	254639	10.52 ug\L		99
48)	trans-1,3-Dichloropropene	10.88	75	78987	8.87 ug\L		96
49)	Ethylmethacrylate	11.08	69	43225	8.32 ug\L	#	99
50)	1,1,2-Trichloroethane	11.19	83	46060	9.88 ug\L		93
51)	Tetrachloroethene	11.31	164	172877	10.83 ug\L		93
52)	1,3-Dichloropropane	11.45	76	85007	9.41 ug\L		97
53)	2-Hexanone	11.67	43	11979m	8.83 ug\L		
54)	Dibromochloromethane	11.85	129	86137	8.55 ug\L		99
55)	1,2-Dibromoethane	11.99	107	59448m	9.05 ug\L		
56)	Chlorobenzene	12.83	112	286883	10.35 ug\L		96
57)	1,1,1,2-Tetrachloroethane	13.01	131	120223	9.43 ug\L		96
58)	Ethylbenzene	13.03	91	527682	10.43 ug\L		98
59)	total-Xylene	13.93	106	231572m	30.77 ug\L		
60)	Styrene	13.98	104	263789	10.02 ug\L		97
62)	Bromoform	14.31	173	39906m	8.46 ug\L		
63)	Isopropylbenzene	14.59	105	665673	11.25 ug\L		98
64)	1,4-dichloro-2-Butene	15.27	75	37447	9.01 ug\L	#	100
66)	Bromobenzene	15.09	156	109137	10.13 ug\L	#	63
67)	1,1,2,2-Tetrachloroethane	15.25	83	49201	9.36 ug\L		99
68)	1,2,3-Trichloropropane	15.27	75	37447	9.01 ug\L	#	100
69)	n-Propylbenzene	15.31	91	726995	11.33 ug\L		96
70)	2-Chlorotoluene	15.43	91	382881m	10.95 ug\L		
71)	4-Chlorotoluene	15.63	91	511617	10.65 ug\L		99
72)	1,3,5-Trimethylbenzene	15.64	105	515907	11.33 ug\L		89
73)	Pentachloroethane	16.26	167	72973	9.57 ug\L		98
74)	tert-Butylbenzene	16.21	119	615444	10.84 ug\L		96
75)	1,2,4-Trimethylbenzene	16.30	105	473215	10.72 ug\L		99
76)	sec-Butylbenzene	16.58	105	765379	11.15 ug\L		97
77)	1,3-Dichlorobenzene	16.76	146	217982	10.46 ug\L		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\122800A\C18240.D Vial: [illegible]
Acq On : 28 Dec 2000 16:20 Operator: [illegible]G/VR
Sample : ICAL 10 ppb (V00083,V00057) Inst : [illegible]A-C
Misc : QC Multiplr: [illegible]00
MS Integration Params: rteint.p
Quant Time: Dec 29 8:30 2000 Quant Results File: [illegible]280025.RES

Quant Method : c:\hpchem\1\data\122800A\12280025.M (RTE Integrat[illegible])
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Dec 12 10:52:52 2000
Response via : Initial Calibration
DataAcq Meth : 12280025

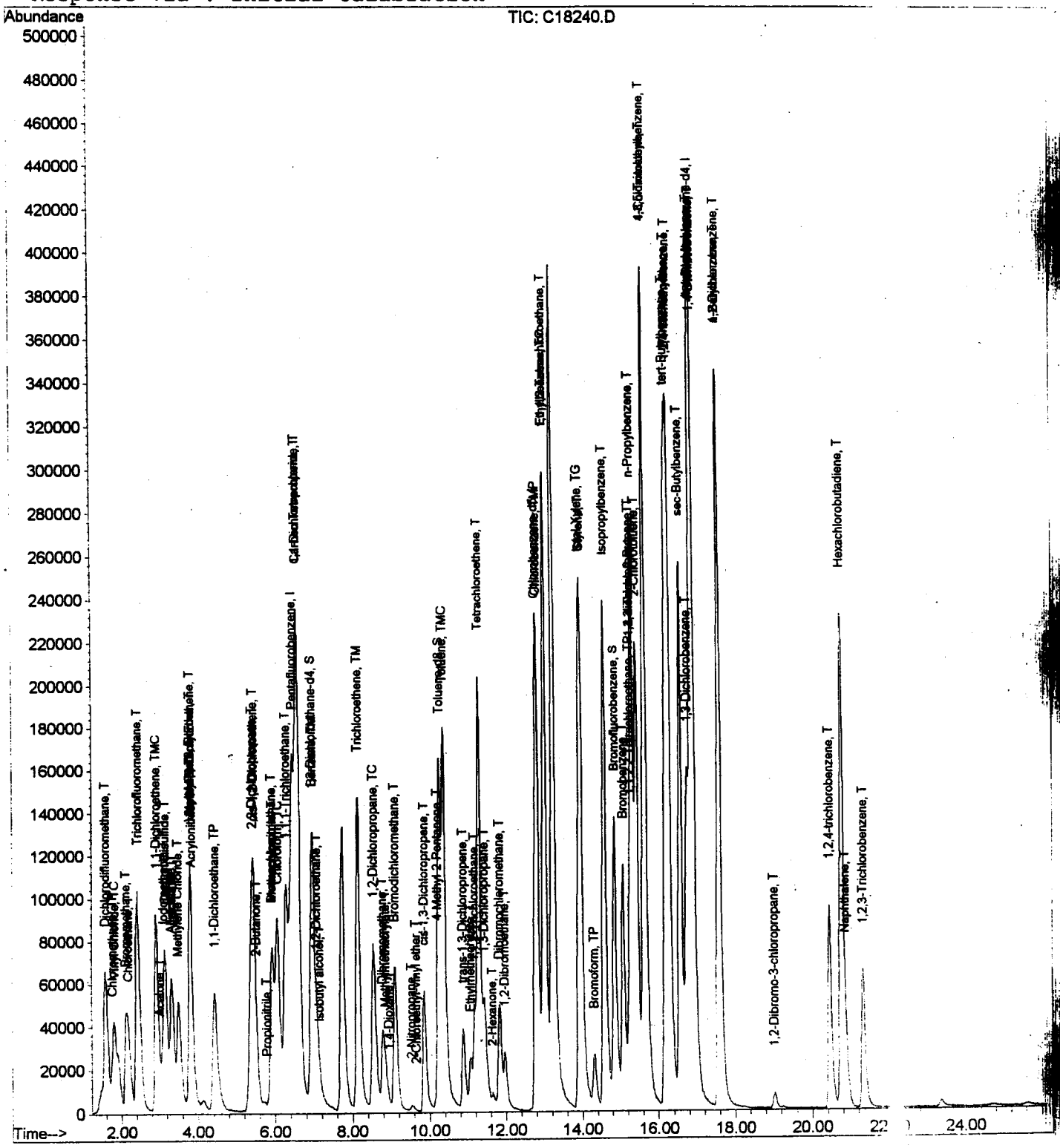
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
78)	Isopropyltoluene	16.87	119	605056	10.92 ug\l		99
79)	1,4-Dichlorobenzene	16.94	146	228784	9.74 ug\l		97
80)	1,2-Dichlorobenzene	17.58	146	165969	9.96 ug\l		99
81)	n-Butylbenzene	17.60	91	588994	10.96 ug\l		92
82)	1,2-Dibromo-3-chloropropan	19.03	75	8048	7.91 ug\l	#	56
83)	1,2,4-trichlorobenzene	20.46	180	113861	8.42 ug\l		100
84)	Hexachlorobutadiene	20.76	225	179922	10.91 ug\l		100
85)	Naphthalene	20.88	128	75515m	7.08 ug\l		
86)	1,2,3-Trichlorobenzene	21.33	180	78463m	8.05 ug\l		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\122800A\C18240.D Vial: [illegible]
Acq On : 28 Dec 2000 16:20 Operator: [illegible]G/VR
Sample : ICAL 10 ppb (V00083,V00057) Inst : [illegible]A-C
Misc : QC Multiplr: [illegible]00
MS Integration Params: rteint.p
Quant Time: Dec 29 8:30 2000 Quant Results File: [illegible]280025.RES

Method : C:\HPCHEM\1\DATA\122800A\12280025.M (RTE Integrat[illegible])
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 08:48:11 2000
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\122800A\C18243.D Vial: 4
Acq On : 28 Dec 2000 17:51 Operator: TAG/VR
Sample : ICAL 20 ppb (V00083,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 29 8:08 2000 Quant Results File: 12280025.RES

Quant Method : c:\hpchem\1\data\122800A\12280025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Dec 12 10:52:52 2000
Response via : Initial Calibration
DataAcq Meth : 12280025

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.46	168	397992	10.00	ug\L	0.00
45) Chlorobenzene-d5	12.78	117	272656	10.00	ug\L	0.00
61) 1,4-Dichlorobenzene-d4	16.90	152	140699	10.00	ug\L	0.00
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	6.96	65	162225	18.73	ug\L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 187.30%#			
46) Toluene-d8	10.28	98	823670	21.02	ug\L	0.01
Spiked Amount 10.000	Range 87 - 104		Recovery = 210.20%#			
65) Bromofluorobenzene	14.86	95	387056	20.35	ug\L	0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 203.50%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.59	85	528342	22.48	ug\L	98
3) Chloromethane	1.77	50	180606	22.83	ug\L	98
4) Vinyl Chloride	1.84	62	254035	22.61	ug\L	100
5) Bromomethane	2.14	94	204164	22.94	ug\L	98
6) Chloroethane	2.21	64	130023	22.41	ug\L	99
7) Trichlorofluoromethane	2.44	101	720213	20.44	ug\L #	100
8) Acrolein	3.84	56	9381m	50.77	ug\L	
9) Acrylonitrile	3.87	53	18757m	39.64	ug\L	
10) 1,1-Dichloroethene	2.94	96	271930	21.59	ug\L	99
11) Acetone	3.06	58	2302m	23.86	ug\L	
12) Iodomethane	3.13	142	433643	22.19	ug\L	98
13) Allylchloride	3.35	39	212476	19.79	ug\L #	23
14) Carbon Disulfide	3.18	76	494195m	21.09	ug\L	
15) Acetonitrile	3.36	41	323148	210.51	ug\L	94
16) Methylene Chloride	3.52	86	119652	22.17	ug\L #	31
17) trans-1,2-Dichloroethene	3.81	96	273804	21.24	ug\L	99
18) MethylTertButylEther	3.82	73	229459	18.65	ug\L	95
19) 1,1-Dichloroethane	4.45	63	432147	20.84	ug\L	98
20) Vinyl Acetate	3.80	43	51037	17.45	ug\L #	73
21) 2,2-Dichloropropane	5.41	77	496045	21.05	ug\L	96
22) cis-1,2-Dichloroethene	5.48	96	230151	20.27	ug\L	99
23) 2-Butanone	5.55	72	3352	19.62	ug\L #	38
24) Propionitrile	5.76	54	24289m	174.78	ug\L	
25) Methacrylonitrile	5.94	41	213370	188.02	ug\L	98
26) Bromochloromethane	5.92	128	90322	20.19	ug\L #	82
27) Chloroform	6.09	83	519283	20.28	ug\L	100
28) 1,1,1-Trichloroethane	6.31	97	614376	20.21	ug\L #	78
29) Carbon Tetrachloride	6.60	119	551042	20.23	ug\L	82
30) 1,4-Dioxane	8.90	88	8731m	401.86	ug\L	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\122800A\C18243.D Vial: -
Acq On : 28 Dec 2000 17:51 Operator: [illegible]G/VR
Sample : ICAL 20 ppb (V00083,V00057) Inst : [illegible]A-C
Misc : QC Multiplr: [illegible]00
MS Integration Params: rteint.p
Quant Time: Dec 29 8:08 2000 Quant Results File: [illegible]280025.RES

Quant Method : c:\hpchem\1\data\122800A\12280025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Dec 12 10:52:52 2000
Response via : Initial Calibration
DataAcq Meth : 12280025

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
31)	1,1-Dichloropropene	6.60	77	147978	20.69 ug\I	#	1
33)	Benzene	6.99	78	735070	21.11 ug\I		100
34)	Isobutyl alcohol	7.16	43	25164m	408.10 ug\I		
35)	1,2-Dichloroethane	7.10	62	195705	19.92 ug\I		97
36)	Trichloroethene	8.16	95	383081	20.35 ug\I		90
37)	1,2-Dichloropropane	8.57	63	222466	20.14 ug\I	#	96
38)	Dibromomethane	8.80	93	102038	19.63 ug\I	#	85
39)	Methylmethacrylate	8.86	69	40345	18.84 ug\I		89
40)	Bromodichloromethane	9.11	83	368076	19.56 ug\I		99
41)	2-Nitropropane	9.55	43	10979m	18.52 ug\L		
42)	2-Chloroethyl-vinyl ether	9.65	63	3036m	3.78 ug\L		
43)	cis-1,3-Dichloropropene	9.88	75	267535	19.30 ug\I		99
44)	4-Methyl-2-Pentanone	10.18	85	8965m	18.48 ug\I		
47)	Toluene	10.38	92	536758	21.91 ug\I		100
48)	trans-1,3-Dichloropropene	10.88	75	180012	19.98 ug\I		93
49)	Ethylmethacrylate	11.06	69	102292	19.45 ug\I	#	94
50)	1,1,2-Trichloroethane	11.19	83	99489	21.08 ug\I		96
51)	Tetrachloroethene	11.31	164	349496	21.64 ug\I		93
52)	1,3-Dichloropropane	11.45	76	181282	19.82 ug\I		100
53)	2-Hexanone	11.67	43	28286	20.61 ug\L	#	97
54)	Dibromochloromethane	11.85	129	201938	19.81 ug\I		98
55)	1,2-Dibromoethane	11.99	107	132530	19.94 ug\I	#	99
56)	Chlorobenzene	12.84	112	587035	20.93 ug\I		96
57)	1,1,1,2-Tetrachloroethane	13.01	131	261615	20.27 ug\I		95
58)	Ethylbenzene	13.03	91	1088852	21.27 ug\I		98
59)	total-Xylene	13.93	106	460949m	60.51 ug\I		
60)	Styrene	13.98	104	558431	20.96 ug\L		95
62)	Bromoform	14.32	173	95278	18.60 ug\L		97
63)	Isopropylbenzene	14.58	105	1372289	22.42 ug\L		98
64)	1,4-dichloro-2-Butene	15.27	75	84398	19.62 ug\L	#	100
66)	Bromobenzene	15.10	156	236808	21.24 ug\I	#	63
67)	1,1,2,2-Tetrachloroethane	15.25	83	111866	20.56 ug\I		98
68)	1,2,3-Trichloropropane	15.27	75	84398	19.62 ug\I	#	100
69)	n-Propylbenzene	15.31	91	1440692	21.71 ug\I		94
70)	2-Chlorotoluene	15.43	91	839979m	23.22 ug\I		
71)	4-Chlorotoluene	15.64	91	1078582	21.70 ug\I		98
72)	1,3,5-Trimethylbenzene	15.65	105	1050294	22.31 ug\I		88
73)	Pentachloroethane	16.25	167	164661	20.87 ug\I		97
74)	tert-Butylbenzene	16.20	119	1273302	21.67 ug\I		97
75)	1,2,4-Trimethylbenzene	16.30	105	979634	21.45 ug\I		99
76)	sec-Butylbenzene	16.59	105	1578892	22.24 ug\I		97
77)	1,3-Dichlorobenzene	16.76	146	438172	20.32 ug\I		96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\122800A\C18243.D Vial: -
Acq On : 28 Dec 2000 17:51 Operator: [illegible]G/VR
Sample : ICAL 20 ppb (V00083,V00057) Inst : [illegible]A-C
Misc : QC Multiplr: [illegible]00
MS Integration Params: rteint.p
Quant Time: Dec 29 8:08 2000 Quant Results File: [illegible]280025.RES

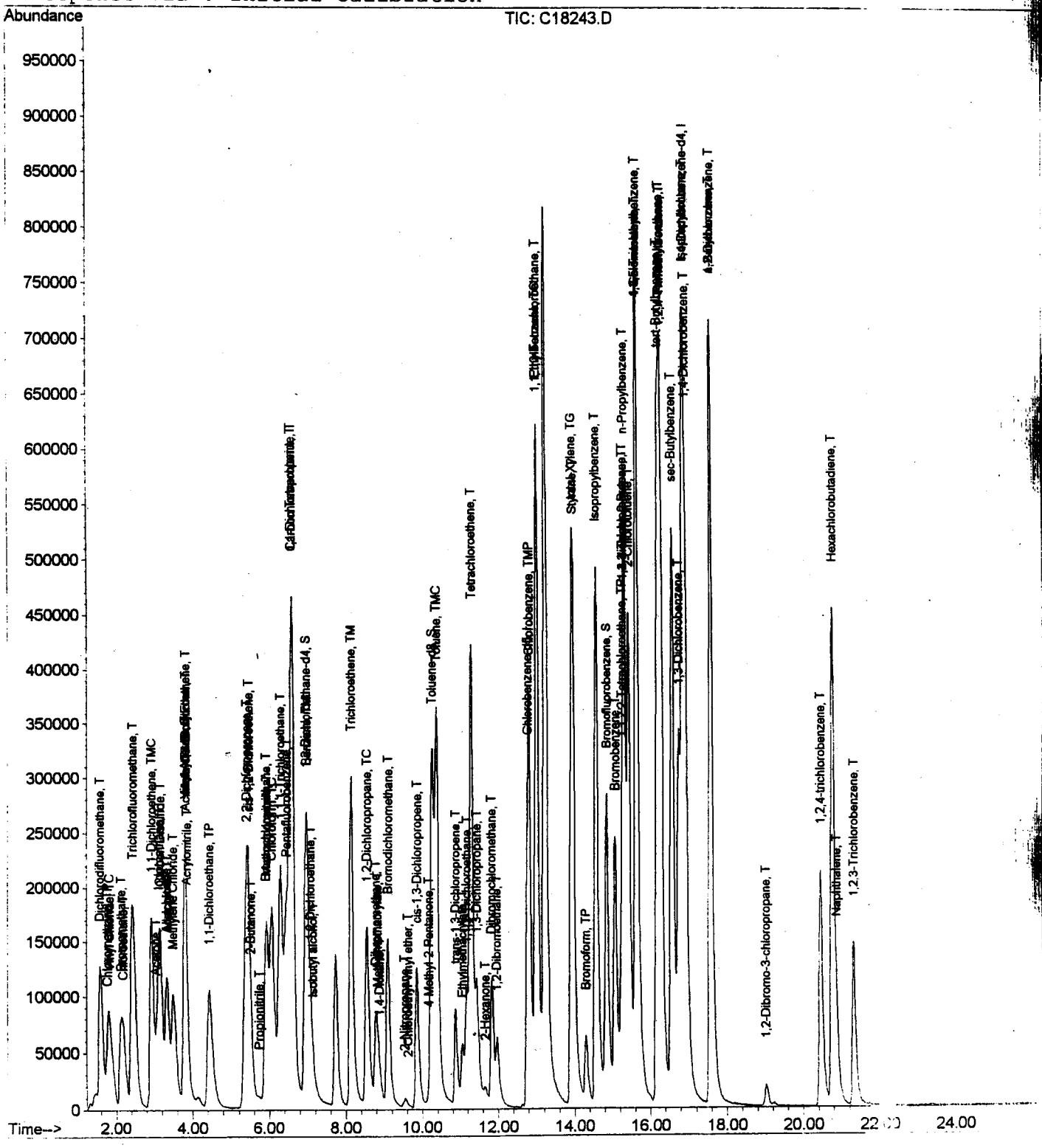
Quant Method : c:\hpchem\1\data\122800A\12280025.M (RTE Integra[illegible])
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Dec 12 10:52:52 2000
Response via : Initial Calibration
DataAcq Meth : 12280025

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
78)	Isopropyltoluene	16.87	119	1243883	21.70 ug\I	98
79)	1,4-Dichlorobenzene	16.94	146	501640	20.64 ug\I	98
80)	1,2-Dichlorobenzene	17.58	146	347895	20.18 ug\I	98
81)	n-Butylbenzene	17.60	91	1218255	21.91 ug\I	93
82)	1,2-Dibromo-3-chloropropan	19.01	75	20454	19.44 ug\I	85
83)	1,2,4-trichlorobenzene	20.46	180	256153	18.32 ug\I	100
84)	Hexachlorobutadiene	20.77	225	360062	21.11 ug\I	100
85)	Naphthalene	20.88	128	179248	16.63 ug\L	100
86)	1,2,3-Trichlorobenzene	21.33	180	173876	17.24 ug\I	96

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\122800A\C18243.D Vial: 4
Acq On : 28 Dec 2000 17:51 Operator: TAG/VR
Sample : ICAL 20 ppb (V00083,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 29 8:08 2000 Quant Results File: 12280025.RES

Method : C:\HPCHEM\1\DATA\122800A\12280025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 08:48:11 2000
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\122800A\C18244.D
Acq On : 28 Dec 2000 18:21
Sample : ICAL 30 ppb (V00083,V00057)
Misc : QC
MS Integration Params: rteint.p
Quant Time: Dec 29 8:12 2000

Vial: 5
Operator: TAG/VR
Inst : VOA-C
Multiplr: 1.00
Quant Results File: 12280025.RES

Quant Method : c:\hpchem\1\data\122800A\12280025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Dec 12 10:52:52 2000
Response via : Initial Calibration
DataAcq Meth : 12280025

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	6.47	168	411836	10.00 ug\l	0.00
45) Chlorobenzene-d5	12.78	117	280988	10.00 ug\l	0.00
61) 1,4-Dichlorobenzene-d4	16.90	152	142795	10.00 ug\l	0.00
System Monitoring Compounds					
32) 1,2-Dichloroethane-d4	6.96	65	246590	27.51 ug\l	-0.01
Spiked Amount 10.000	Range 80 - 120		Recovery = 275.0%#		
46) Toluene-d8	10.29	98	1264314	31.31 ug\l	0.02
Spiked Amount 10.000	Range 87 - 104		Recovery = 313.0%#		
65) Bromofluorobenzene	14.87	95	585016	30.31 ug\l	0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 303.0%#		

Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.59	85	802340	33.00 ug\l	99
3) Chloromethane	1.78	50	279604	34.16 ug\l	97
4) Vinyl Chloride	1.84	62	383472	32.99 ug\l	99
5) Bromomethane	2.13	94	298145	33.18 ug\l	99
6) Chloroethane	2.23	64	194652	32.43 ug\l	98
7) Trichlorofluoromethane	2.45	101	1095856	30.06 ug\l #	100
8) Acrolein	3.80	56	14880	73.21 ug\l #	95
9) Acrylonitrile	3.85	53	29244m	59.37 ug\l	
10) 1,1-Dichloroethene	2.94	96	415084	31.85 ug\l	99
11) Acetone	3.01	58	3250	31.12 ug\l #	66
12) Iodomethane	3.12	142	653404	31.78 ug\l	98
13) Allylchloride	3.34	39	326142	29.36 ug\l #	22
14) Carbon Disulfide	3.17	76	751413m	31.00 ug\l	
15) Acetonitrile	3.36	41	483203	304.19 ug\l	92
16) Methylene Chloride	3.51	86	187960	33.65 ug\l #	36
17) trans-1,2-Dichloroethene	3.82	96	422699	31.69 ug\l	98
18) MethylTertButylEther	3.81	73	351993	27.64 ug\l	95
19) 1,1-Dichloroethane	4.46	63	662235	30.86 ug\l	98
20) Vinyl Acetate	3.81	43	76619	25.31 ug\l #	73
21) 2,2-Dichloropropane	5.41	77	772259	31.67 ug\l	96
22) cis-1,2-Dichloroethene	5.49	96	358622	30.52 ug\l	99
23) 2-Butanone	5.52	72	8409m	37.74 ug\l	
24) Propionitrile	5.75	54	42545	284.73 ug\l #	92
25) Methacrylonitrile	5.94	41	320295	272.76 ug\l	96
26) Bromochloromethane	5.94	128	136583	29.50 ug\l #	83
27) Chloroform	6.10	83	801166	30.24 ug\l	99
28) 1,1,1-Trichloroethane	6.30	97	958248	30.46 ug\l #	79
29) Carbon Tetrachloride	6.59	119	859668	30.50 ug\l	85
30) 1,4-Dioxane	8.89	88	12824m	570.40 ug\l	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\122800A\C18244.D
Acq On : 28 Dec 2000 18:21
Sample : ICAL 30 ppb (V00083,V00057)
Misc : QC
MS Integration Params: rteint.p
Quant Time: Dec 29 8:12 2000

Vial: [illegible]
Operator: [illegible]G/VR
Inst : [illegible]A-C
Multiplr: [illegible]00

Quant Results File: [illegible]280025.RES

Quant Method : c:\hpchem\1\data\122800A\12280025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Dec 12 10:52:52 2000
Response via : Initial Calibration
DataAcq Meth : 12280025

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
31)	1,1-Dichloropropene	6.61	77	225537	30.48 ug\l	#	1
33)	Benzene	6.99	78	1130534	31.37 ug\l		100
34)	Isobutyl alcohol	7.16	43	36101	567.51 ug\l		99
35)	1,2-Dichloroethane	7.08	62	293848	28.90 ug\l		98
36)	Trichloroethene	8.15	95	600437	30.83 ug\l		93
37)	1,2-Dichloropropane	8.56	63	349803	30.61 ug\l	#	95
38)	Dibromomethane	8.79	93	155452	28.90 ug\l	#	83
39)	Methylmethacrylate	8.87	69	63027	28.44 ug\l		94
40)	Bromodichloromethane	9.12	83	578968	29.73 ug\l		100
41)	2-Nitropropane	9.55	43	17942	29.25 ug\l	#	100
42)	2-Chloroethyl-vinyl ether	9.70	63	7573m	5.87 ug\l		
43)	cis-1,3-Dichloropropene	9.87	75	416050	29.00 ug\l		98
44)	4-Methyl-2-Pentanone	10.18	85	14924m	31.79 ug\l		
47)	Toluene	10.39	92	827473	32.77 ug\l		99
48)	trans-1,3-Dichloropropene	10.88	75	282906	30.47 ug\l		95
49)	Ethylmethacrylate	11.07	69	160220	29.56 ug\l	#	95
50)	1,1,2-Trichloroethane	11.20	83	152321	31.32 ug\l		95
51)	Tetrachloroethene	11.31	164	538509	32.36 ug\l		93
52)	1,3-Dichloropropane	11.45	76	277458	29.43 ug\l		100
53)	2-Hexanone	11.68	43	40581	28.69 ug\L	#	96
54)	Dibromochloromethane	11.85	129	319499	30.42 ug\l		96
55)	1,2-Dibromoethane	11.99	107	205282	29.97 ug\l	#	98
56)	Chlorobenzene	12.82	112	926951	32.06 ug\l		95
57)	1,1,1,2-Tetrachloroethane	13.01	131	407126	30.61 ug\l		95
58)	Ethylbenzene	13.03	91	1702819	32.28 ug\l		99
59)	total-Xylene	13.93	106	744830m	94.88 ug\l		
60)	Styrene	13.98	104	855804	31.16 ug\l		95
62)	Bromoform	14.32	173	154738	29.34 ug\L		99
63)	Isopropylbenzene	14.59	105	2121608	34.15 ug\L		98
64)	1,4-dichloro-2-Butene	15.27	75	128752	29.50 ug\L	#	100
66)	Bromobenzene	15.08	156	370507	32.74 ug\l	#	61
67)	1,1,2,2-Tetrachloroethane	15.25	83	168707	30.56 ug\l	#	98
68)	1,2,3-Trichloropropane	15.27	75	128752	29.50 ug\l	#	100
69)	n-Propylbenzene	15.31	91	2268364	33.68 ug\l		96
70)	2-Chlorotoluene	15.44	91	1174850m	32.00 ug\l		
71)	4-Chlorotoluene	15.64	91	1617611	32.07 ug\l		98
72)	1,3,5-Trimethylbenzene	15.64	105	1614505	33.78 ug\L		89
73)	Pentachloroethane	16.26	167	255058	31.85 ug\L		96
74)	tert-Butylbenzene	16.21	119	1934429	32.44 ug\l		97
75)	1,2,4-Trimethylbenzene	16.29	105	1493655	32.22 ug\l		99
76)	sec-Butylbenzene	16.58	105	2406326	33.39 ug\l		97
77)	1,3-Dichlorobenzene	16.77	146	689296	31.50 ug\l		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\122800A\C18244.D
Acq On : 28 Dec 2000 18:21
Sample : ICAL 30 ppb (V00083,V00057)
Misc : QC
MS Integration Params: rteint.p
Quant Time: Dec 29 8:12 2000

Vial: [illegible]
Operator: [illegible]G/VR
Inst : [illegible]A-C
Multiplr: [illegible]00

Quant Results File: [illegible]280025.RES

Quant Method : c:\hpchem\1\data\122800A\12280025.M (RTE Integrat[illegible]r)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Dec 12 10:52:52 2000
Response via : Initial Calibration
DataAcq Meth : 12280025

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
78)	Isopropyltoluene	16.87	119	1879668	32.30 ug\l	98
79)	1,4-Dichlorobenzene	16.94	146	743474	30.14 ug\l	99
80)	1,2-Dichlorobenzene	17.59	146	531067	30.35 ug\l	98
81)	n-Butylbenzene	17.60	91	1869787	33.13 ug\l	93
82)	1,2-Dibromo-3-chloropropan	19.03	75	32450	30.39 ug\l	85
83)	1,2,4-trichlorobenzene	20.46	180	395422	27.86 ug\l	100
84)	Hexachlorobutadiene	20.77	225	516658	29.84 ug\l	100
85)	Naphthalene	20.89	128	289991	26.68 ug\l	100
86)	1,2,3-Trichlorobenzene	21.32	180	268103	26.20 ug\l	98

(#) = qualifier out of range (m) = manual integration

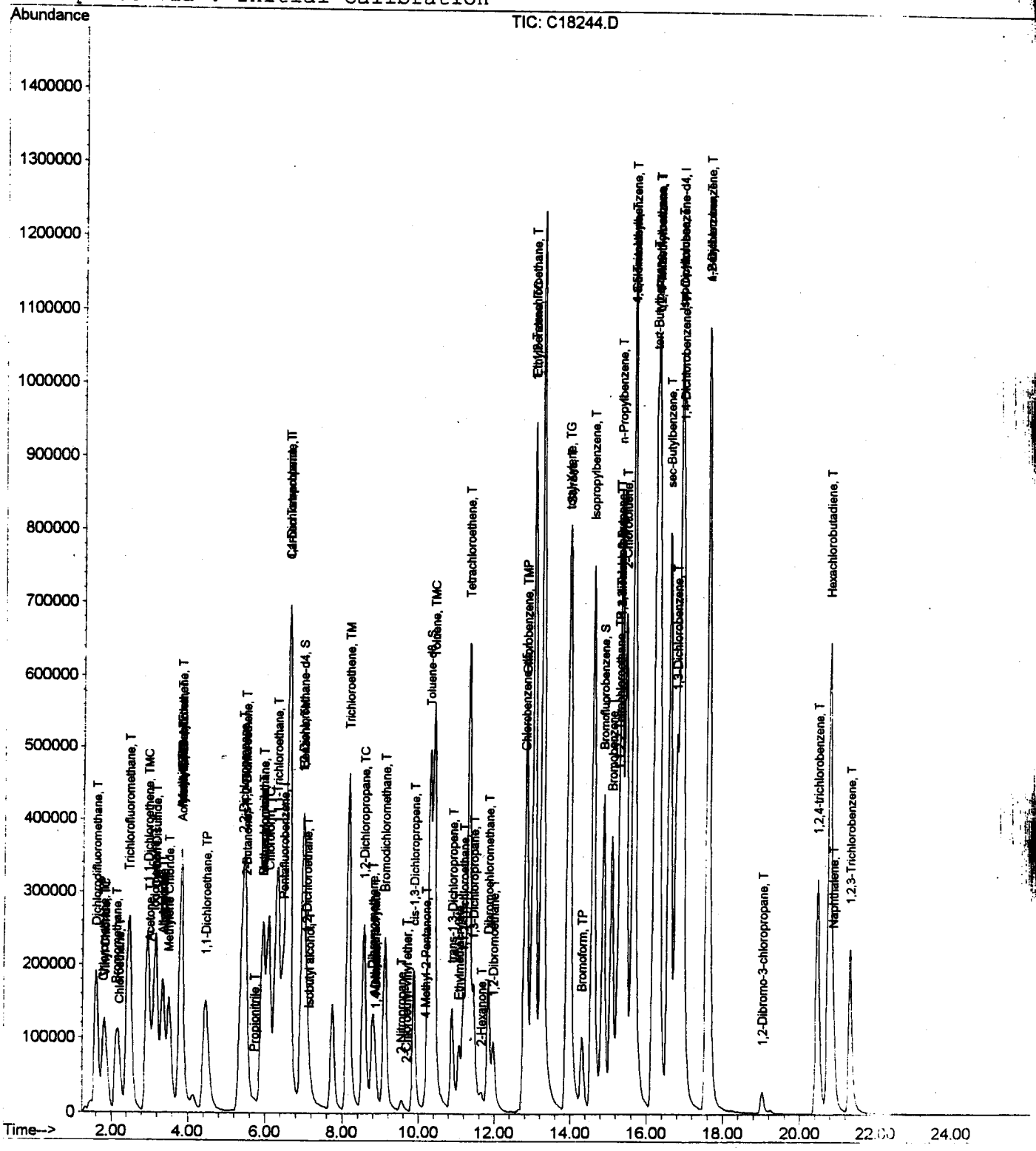
Quantitation Report

Data File : C:\HPCHEM\1\DATA\122800A\C18244.D
Acq On : 28 Dec 2000 18:21
Sample : ICAL 30 ppb (V00083,V00057)
Misc : QC
MS Integration Params: rteint.p
Quant Time: Dec 29 8:12 2000

Vial: 5
Operator: TAG/VR
Inst : MA-C
Multiplr: 1.00

Quant Results File: 12280025.RES

Method : C:\HPCHEM\1\DATA\122800A\12280025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 08:48:11 2000
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\122800A\C18245.D
Acq On : 28 Dec 2000 18:51
Sample : ICAL 40 ppb (V00083,V00057)
Misc : QC
MS Integration Params: rteint.p
Quant Time: Dec 29 8:17 2000

Vial: [illegible]
Operator: T[illegible]G/VR
Inst : V[illegible]A-C
Multiplr: 1 00

Quant Results File: 1[illegible]280025.RES

Quant Method : c:\hpchem\1\data\122800A\12280025.M (RTE Integra[illegible])
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Dec 12 10:52:52 2000
Response via : Initial Calibration
DataAcq Meth : 12280025

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	6.47	168	389057	10.00 ug\L	0.00
45) Chlorobenzene-d5	12.77	117	270025	10.00 ug\L	-0.02
61) 1,4-Dichlorobenzene-d4	16.89	152	132960	10.00 ug\L	0.00
System Monitoring Compounds					
32) 1,2-Dichloroethane-d4	6.95	65	320239	37.82 ug\L	-0.02
Spiked Amount 10.000	Range 80 - 120		Recovery = 378.[illegible]0%#		
46) Toluene-d8	10.27	98	1599218	41.22 ug\L	0.00
Spiked Amount 10.000	Range 87 - 104		Recovery = 412.[illegible]0%#		
65) Bromofluorobenzene	14.86	95	748211	41.63 ug\L	0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 416.[illegible]0%#		

Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.60	85	1060735	46.18 ug\L	99
3) Chloromethane	1.77	50	360485	46.62 ug\L	99
4) Vinyl Chloride	1.84	62	502034	45.72 ug\L	99
5) Bromomethane	2.12	94	377176	45.11 ug\L	99
6) Chloroethane	2.22	64	239390	42.22 ug\L	98
7) Trichlorofluoromethane	2.46	101	1443155	41.90 ug\L #	100
8) Acrolein	3.81	56	18819	95.08 ug\L #	95
9) Acrylonitrile	3.87	53	36785m	78.81 ug\L	
10) 1,1-Dichloroethene	2.95	96	542261	44.05 ug\L	98
11) Acetone	3.03	58	4116m	40.37 ug\L	
12) Iodomethane	3.12	142	826035	42.13 ug\L	98
13) Allylchloride	3.35	39	409618	39.04 ug\L #	23
14) Carbon Disulfide	3.17	76	1070749	46.75 ug\L	99
15) Acetonitrile	3.35	41	620285	413.35 ug\L	94
16) Methylene Chloride	3.51	86	251000	47.57 ug\L #	37
17) trans-1,2-Dichloroethene	3.82	96	556938	44.20 ug\L	96
18) MethylTertButylEther	3.81	73	449236	37.34 ug\L	96
19) 1,1-Dichloroethane	4.46	63	856876	42.27 ug\L	98
20) Vinyl Acetate	3.81	43	100170m	35.03 ug\L	
21) 2,2-Dichloropropane	5.42	77	1012140	43.94 ug\L	97
22) cis-1,2-Dichloroethene	5.49	96	469905	42.33 ug\L	97
23) 2-Butanone	5.53	72	9616m	44.23 ug\L	
24) Propionitrile	5.76	54	57418	399.88 ug\L #	80
25) Methacrylonitrile	5.94	41	422550	380.90 ug\L	98
26) Bromochloromethane	5.93	128	181991	41.62 ug\L #	79
27) Chloroform	6.10	83	1035405	41.38 ug\L	99
28) 1,1,1-Trichloroethane	6.32	97	1279945	43.07 ug\L	92
29) Carbon Tetrachloride	6.60	119	1140003	42.81 ug\L	87
30) 1,4-Dioxane	8.88	88	16272m	766.15 ug\L	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\122800A\C18245.D
Acq On : 28 Dec 2000 18:51
Sample : ICAL 40 ppb (V00083,V00057)
Misc : QC
MS Integration Params: rteint.p
Quant Time: Dec 29 8:17 2000

Vial: 4
Operator: 1 G/VR
Inst : V A-C
Multiplr: 1 00

Quant Results File: 1 280025.RES

Quant Method : c:\hpchem\1\data\122800A\12280025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Dec 12 10:52:52 2000
Response via : Initial Calibration
DataAcq Meth : 12280025

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
31) 1,1-Dichloropropene	6.61	77	290312	41.53 ug\I	#	1
33) Benzene	6.99	78	1470061	43.18 ug\I		100
34) Isobutyl alcohol	7.16	43	42288	704.76 ug\I		89
35) 1,2-Dichloroethane	7.09	62	381205	39.69 ug\I		96
36) Trichloroethene	8.16	95	762794	41.46 ug\I		90
37) 1,2-Dichloropropane	8.58	63	446250	41.34 ug\I	#	87
38) Dibromomethane	8.80	93	203454	40.04 ug\I	#	84
39) Methylmethacrylate	8.86	69	80031	38.22 ug\I		94
40) Bromodichloromethane	9.11	83	766561	41.67 ug\I		99
41) 2-Nitropropane	9.55	43	21301	36.76 ug\I	#	100
42) 2-Chloroethyl-vinyl ether	9.67	63	6303m	5.44 ug\I		
43) cis-1,3-Dichloropropene	9.87	75	553658	40.85 ug\I		97
44) 4-Methyl-2-Pentanone	10.21	85	17672m	40.71 ug\I		
47) Toluene	10.38	92	1060382	43.70 ug\I		100
48) trans-1,3-Dichloropropene	10.89	75	377834	42.35 ug\I		92
49) Ethylmethacrylate	11.07	69	214078	41.10 ug\I	#	95
50) 1,1,2-Trichloroethane	11.20	83	196212	41.98 ug\I		96
51) Tetrachloroethene	11.31	164	715222	44.72 ug\I		92
52) 1,3-Dichloropropane	11.45	76	365700	40.37 ug\I		100
53) 2-Hexanone	11.66	43	52843	38.88 ug\I		96
54) Dibromochloromethane	11.85	129	426576	42.26 ug\I		99
55) 1,2-Dibromoethane	11.98	107	272809	41.44 ug\I	#	98
56) Chlorobenzene	12.83	112	1207502	43.46 ug\I		96
57) 1,1,1,2-Tetrachloroethane	13.01	131	538285	42.12 ug\I		94
58) Ethylbenzene	13.04	91	2135654	42.13 ug\I		98
59) total-Xylene	13.92	106	968178m	128.34 ug\I		
60) Styrene	13.98	104	1115864	42.28 ug\I		97
62) Bromoform	14.32	173	209291	42.29 ug\I	#	96
63) Isopropylbenzene	14.58	105	2687429	46.46 ug\I		98
64) 1,4-dichloro-2-Butene	15.27	75	175192	43.11 ug\I	#	100
66) Bromobenzene	15.09	156	486235	46.15 ug\I	#	60
67) 1,1,2,2-Tetrachloroethane	15.23	83	217727	42.36 ug\I	#	99
68) 1,2,3-Trichloropropane	15.27	75	175192	43.11 ug\I	#	100
69) n-Propylbenzene	15.31	91	2825089	45.05 ug\I		95
70) 2-Chlorotoluene	15.43	91	1528769m	44.72 ug\I		
71) 4-Chlorotoluene	15.64	91	2071581	44.11 ug\I		99
72) 1,3,5-Trimethylbenzene	15.65	105	1991362	44.75 ug\I		89
73) Pentachloroethane	16.25	167	336563	45.14 ug\I		96
74) tert-Butylbenzene	16.20	119	2480535	44.68 ug\I		97
75) 1,2,4-Trimethylbenzene	16.29	105	1887171	43.72 ug\I		99
76) sec-Butylbenzene	16.59	105	3070193	45.75 ug\I		97
77) 1,3-Dichlorobenzene	16.76	146	874988	42.94 ug\I		98

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\122800A\C18245.D
Acq On : 28 Dec 2000 18:51
Sample : ICAL 40 ppb (V00083,V00057)
Misc : QC
MS Integration Params: rteint.p
Quant Time: Dec 29 8:17 2000

Vial: [illegible]
Operator: [illegible]G/VR
Inst : [illegible]A-C
Multiplr: [illegible]00

Quant Results File: [illegible]280025.RES

Quant Method : c:\hpchem\1\data\122800A\12280025.M (RTE Integrat[illegible]r)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Dec 12 10:52:52 2000
Response via : Initial Calibration
DataAcq Meth : 12280025

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
78)	Isopropyltoluene	16.86	119	2408348	44.45 ug\l		98
79)	1,4-Dichlorobenzene	16.93	146	997445	43.43 ug\l		97
80)	1,2-Dichlorobenzene	17.57	146	690218	42.37 ug\l		98
81)	n-Butylbenzene	17.59	91	2351116	44.74 ug\l		93
82)	1,2-Dibromo-3-chloropropan	19.02	75	39654	39.88 ug\l	#	75
83)	1,2,4-trichlorobenzene	20.46	180	512618	38.80 ug\l		100
84)	Hexachlorobutadiene	20.78	225	625740	38.82 ug\l		100
85)	Naphthalene	20.89	128	390709	38.74 ug\l		100
86)	1,2,3-Trichlorobenzene	21.33	180	347648	36.48 ug\l		97

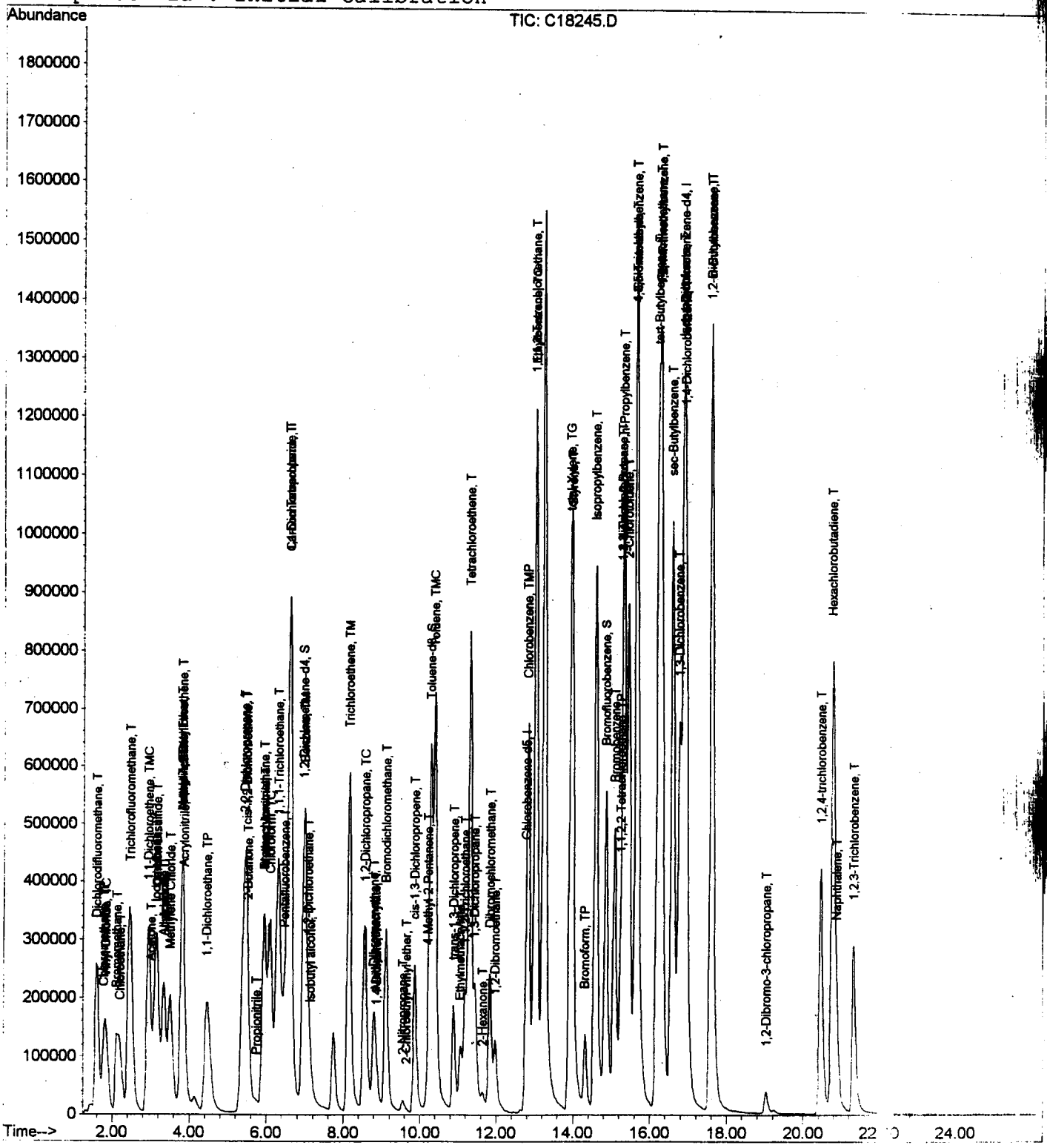
(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\122800A\C18245.D
Acq On : 28 Dec 2000 18:51
Sample : ICAL 40 ppb (V00083,V00057)
Misc : QC
MS Integration Params: rteint.p
Quant Time: Dec 29 8:17 2000

Vial: 6
Operator: TAG/VR
Inst : VOA-C
Multiplr: 1.00

Quant Results File: 12280025.RES

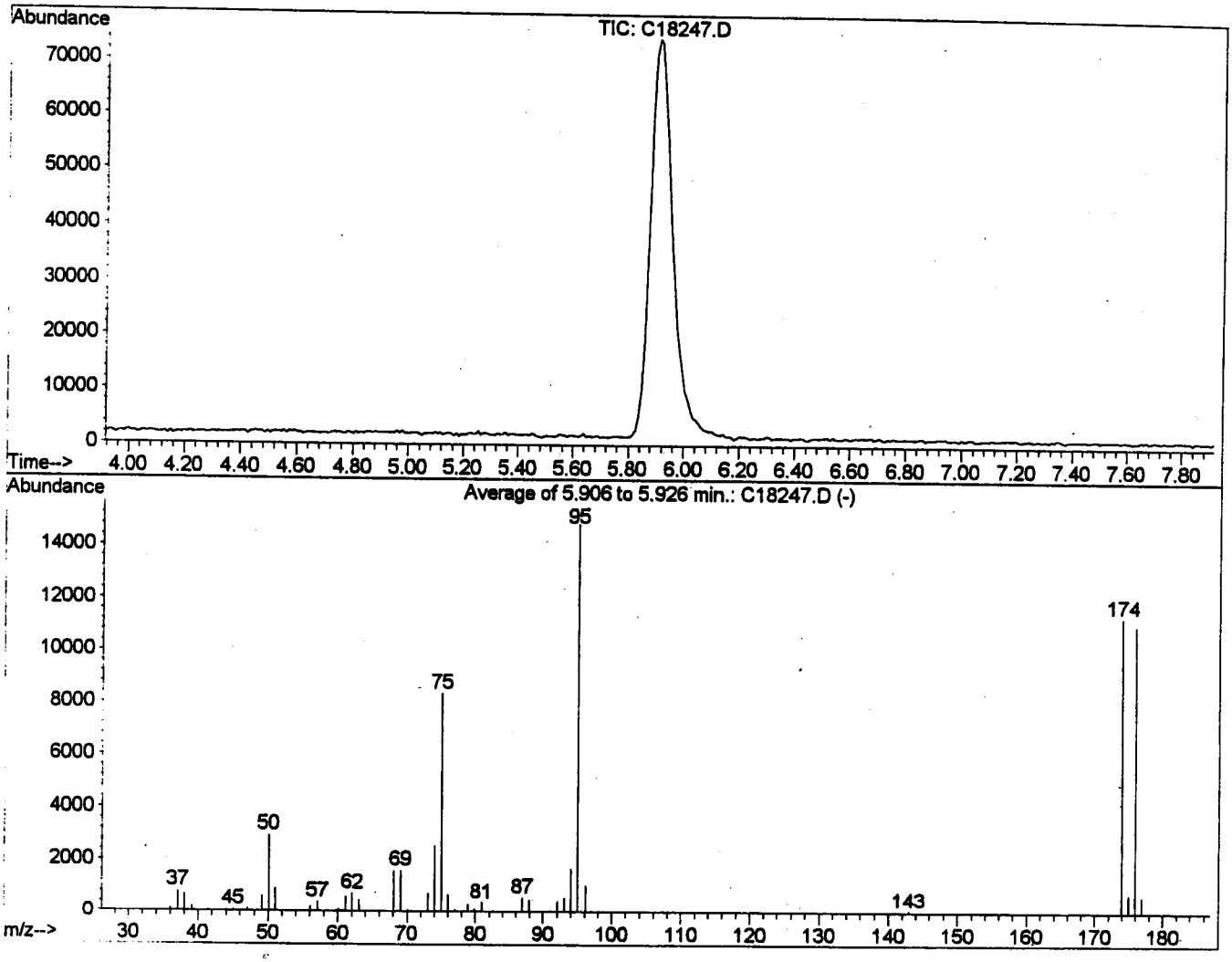
Method : C:\HPCHEM\1\DATA\122800A\12280025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 08:48:11 2000
Response via : Initial Calibration



BFB

Data File : C:\HPCHEM\1\DATA\122900\C18247.D
Acq On : 29 Dec 2000 13:43
Sample : BFB 50ng V00048
Misc : QC
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\DATA\122800A\12280025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER

Vial: 1
Operator: TAG/VR
Inst : VOA-C
Multiplr: 1.00



AutoFind: Scans 475, 476, 477; Background Corrected with Scan 463

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.9	2951	PASS
75	95	30	60	56.4	8377	PASS
95	95	100	100	100.0	14863	PASS
96	95	5	9	7.1	1060	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	76.7	11398	PASS
175	174	5	9	6.6	755	PASS
176	174	95	101	97.4	11097	PASS
177	176	5	9	6.1	678	PASS

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\122900\C18248.D Vial: 1
Acq On : 29 Dec 2000 14:03 Operator: TAG/VR
Sample : ICV/CCV 10 ppb (V00084,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 29 14:33 2000 Quant Results File: 12290025.RES

Quant Method : C:\HPCHEM\1\DATA\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 10:24:33 2000
Response via : Initial Calibration
DataAcq Meth : 12290025

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	6.46	168	482267	10.00 ug\L	-0.02
45) Chlorobenzene-d5	12.78	117	301043	10.00 ug\L	0.00
61) 1,4-Dichlorobenzene-d4	16.89	152	149855	10.00 ug\L	0.00
System Monitoring Compounds					
32) 1,2-Dichloroethane-d4	6.96	65	79437	8.30 ug\L	0.01
Spiked Amount 10.000	Range 80 - 120		Recovery = 83.00%		
46) Toluene-d8	10.26	98	470034	10.55 ug\L	-0.02
Spiked Amount 10.000	Range 87 - 104		Recovery = 105.50%#		
65) Bromofluorobenzene	14.86	95	198419	9.55 ug\L	-0.02
Spiked Amount 10.000	Range 84 - 110		Recovery = 95.50%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.58	85	330203	10.56 ug\L	100
3) Chloromethane	1.77	50	109121	10.09 ug\L	98
4) Vinyl Chloride	1.84	62	135183	9.07 ug\L	99
5) Bromomethane	2.14	94	129876	9.82 ug\L	97
6) Chloroethane	2.22	64	82759	10.54 ug\L #	42
7) Trichlorofluoromethane	2.41	101	390864	9.16 ug\L #	100
8) Acrolein	3.80	56	4042	14.89 ug\L #	4
9) Acrylonitrile	3.84	53	4131	9.24 ug\L #	80
10) 1,1-Dichloroethene	2.93	96	155511	9.71 ug\L	95
11) Acetone	3.01	58	1153m	10.23 ug\L	
12) Iodomethane	3.10	142	140385	6.25 ug\L	99
13) Allylchloride	3.33	39	115020	9.01 ug\L #	23
14) Carbon Disulfide	3.17	76	268030	8.46 ug\L	100
15) Acetonitrile	3.32	41	172835	91.31 ug\L	93
16) Methylene Chloride	3.51	86	64876	7.73 ug\L #	41
17) trans-1,2-Dichloroethene	3.80	96	156130	9.65 ug\L	94
18) MethylTertButylEther	3.80	73	103934	7.92 ug\L	95
19) 1,1-Dichloroethane	4.44	63	238763	9.30 ug\L	99
20) Vinyl Acetate	3.80	43	22857	7.79 ug\L #	73
21) 2,2-Dichloropropane	5.40	77	263860	9.38 ug\L #	55
22) cis-1,2-Dichloroethene	5.45	96	125774	9.21 ug\L	98
23) 2-Butanone	5.59	72	1804m	9.59 ug\L	
24) Propionitrile	5.74	54	6515	58.45 ug\L #	57
25) Methacrylonitrile	5.95	41	95676	77.41 ug\L	96
26) Bromochloromethane	5.93	128	46198	8.88 ug\L #	79
27) Chloroform	6.09	83	272328	8.89 ug\L	100
28) 1,1,1-Trichloroethane	6.30	97	332698	9.16 ug\L #	76
29) Carbon Tetrachloride	6.58	119	303117	9.29 ug\L #	79
31) 1,1-Dichloropropene	6.61	77	81024	9.19 ug\L #	1

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\122900\C18248.D Vial: 1
Acq On : 29 Dec 2000 14:03 Operator: TAG/VR
Sample : ICV/CCV 10 ppb (V00084,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 29 14:33 2000 Quant Results File: 12290025.RES

Quant Method : C:\HPCHEM\1\DATA\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 10:24:33 2000
Response via : Initial Calibration
DataAcq Meth : 12290025

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
33)	Benzene	6.97	78	401980	9.22 ug\L		100
34)	Isobutyl alcohol	7.18	43	12252	159.39 ug\L	#	51
35)	1,2-Dichloroethane	7.09	62	92339	8.25 ug\L		99
36)	Trichloroethene	8.15	95	206141	9.03 ug\L		91
37)	1,2-Dichloropropane	8.57	63	112048	8.61 ug\L	#	94
38)	Dibromomethane	8.79	93	48434	8.34 ug\L	#	83
39)	Methylmethacrylate	8.85	69	18177	8.32 ug\L	#	82
40)	Bromodichloromethane	9.11	83	183541	8.81 ug\L		99
41)	2-Nitropropane	9.53	43	4335m	7.80 ug\L		
42)	2-Chloroethyl-vinyl ether	9.64	63	988m	6.72 ug\L		
43)	cis-1,3-Dichloropropene	9.87	75	132252	8.79 ug\L		98
44)	4-Methyl-2-Pentanone	10.38	85	7063m	11.45 ug\L		
47)	Toluene	10.38	92	293701	10.26 ug\L		99
48)	trans-1,3-Dichloropropene	10.88	75	82671	9.05 ug\L		95
49)	Ethylmethacrylate	11.06	69	44625	8.46 ug\L	#	93
50)	1,1,2-Trichloroethane	11.19	83	46806	9.00 ug\L		97
51)	Tetrachloroethene	11.30	164	195592	10.25 ug\L		91
52)	1,3-Dichloropropane	11.46	76	86648	9.04 ug\L		99
53)	2-Hexanone	11.68	43	10413	7.51 ug\L	#	85
54)	Dibromochloromethane	11.84	129	95806	9.33 ug\L		100
55)	1,2-Dibromoethane	11.99	107	61696	9.06 ug\L	#	98
56)	Chlorobenzene	12.83	112	318416	9.77 ug\L		93
57)	1,1,1,2-Tetrachloroethane	13.02	131	128874	9.39 ug\L		94
58)	Ethylbenzene	13.03	91	592296	10.16 ug\L		98
59)	total-Xylene	13.92	106	254683m	29.62 ug\L		
60)	Styrene	13.97	104	278328	9.61 ug\L		95
62)	Bromoform	14.31	173	43363	9.01 ug\L	#	96
63)	Isopropylbenzene	14.57	105	731530	10.05 ug\L		98
64)	1,4-dichloro-2-Butene	15.27	75	37977	8.18 ug\L	#	100
66)	Bromobenzene	15.08	156	123294	9.96 ug\L	#	60
67)	1,1,2,2-Tetrachloroethane	15.23	83	50844	8.95 ug\L		99
68)	1,2,3-Trichloropropane	15.27	75	37977	8.18 ug\L	#	100
69)	n-Propylbenzene	15.31	91	787555	10.08 ug\L		96
70)	2-Chlorotoluene	15.42	91	406100	9.50 ug\L		93
71)	4-Chlorotoluene	15.64	91	546876	9.61 ug\L		97
72)	1,3,5-Trimethylbenzene	15.64	105	545724	9.78 ug\L		91
73)	Pentachloroethane	16.24	167	80563	9.84 ug\L		96
74)	tert-Butylbenzene	16.20	119	676096	10.01 ug\L		96
75)	1,2,4-Trimethylbenzene	16.29	105	512173	9.79 ug\L		99
76)	sec-Butylbenzene	16.58	105	844728	10.07 ug\L		96
77)	1,3-Dichlorobenzene	16.76	146	228913	9.59 ug\L		95
78)	Isopropyltoluene	16.86	119	667128	10.17 ug\L		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\122900\C18248.D Vial: 1
Acq On : 29 Dec 2000 14:03 Operator: TAG/VR
Sample : ICV/CCV 10 ppb (V00084,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 29 14:33 2000 Quant Results File: 12290025.RES

Quant Method : C:\HPCHEM\1\DATA\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 10:24:33 2000
Response via : Initial Calibration
DataAcq Meth : 12290025

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
79) 1,4-Dichlorobenzene	16.93	146	257420	9.63 ug\L	97
80) 1,2-Dichlorobenzene	17.58	146	177843	9.48 ug\L	97
81) n-Butylbenzene	17.60	91	662641	10.39 ug\L	93
82) 1,2-Dibromo-3-chloropropan	19.02	75	8857	8.75 ug\L	88
83) 1,2,4-trichlorobenzene	20.46	180	123670	9.18 ug\L	100
84) Hexachlorobutadiene	20.77	225	187996	9.84 ug\L	100
85) Naphthalene	20.88	128	76774	8.05 ug\L	100
86) 1,2,3-Trichlorobenzene	21.32	180	78200	8.28 ug\L	98

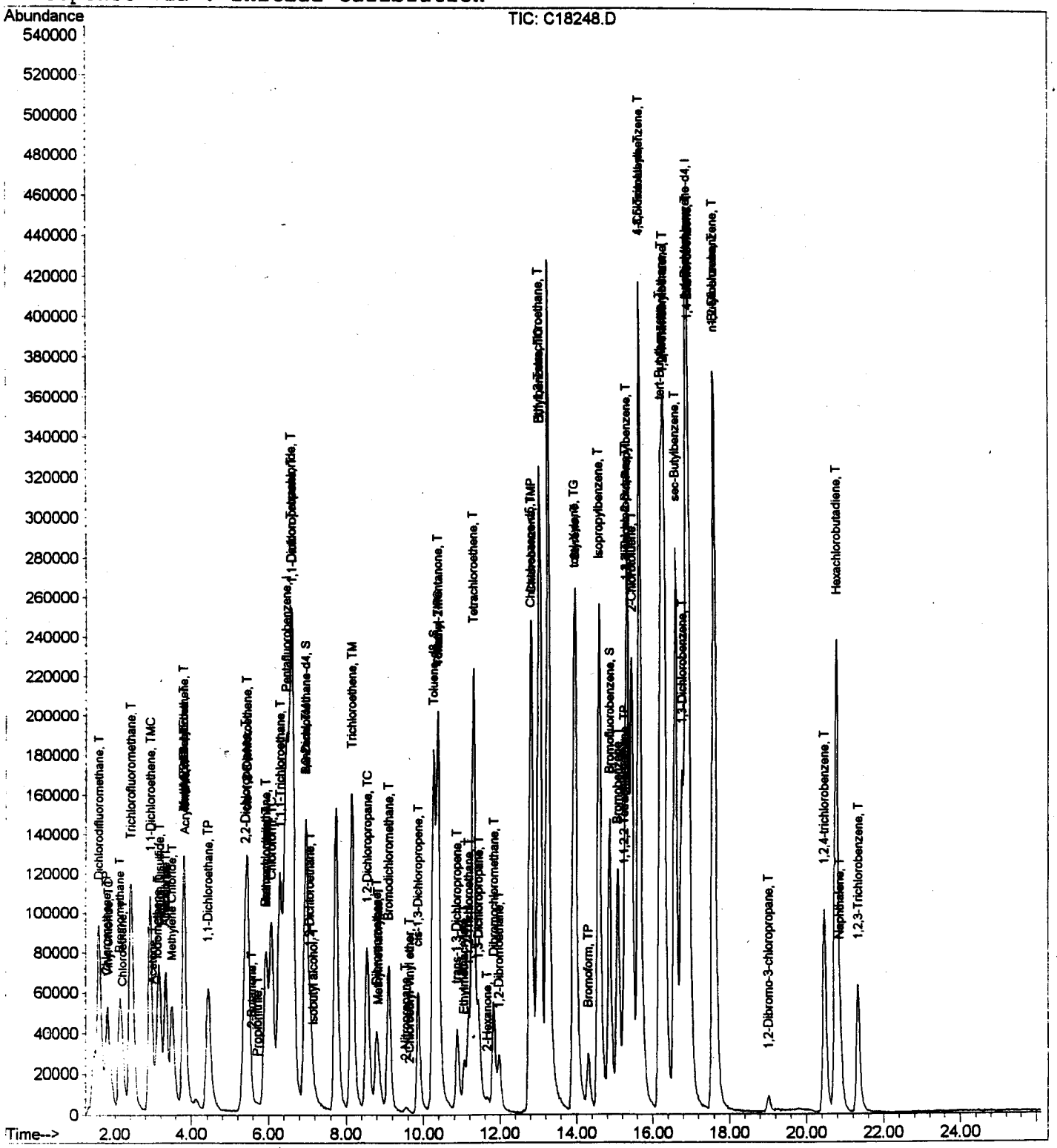
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\122900\C18248.D
Acq On : 29 Dec 2000 14:03
Sample : ICV/CCV 10 ppb (V00084,V00057)
Misc : QC
MS Integration Params: rteint.p
Quant Time: Dec 29 14:33 2000

Vial: 1
Operator: TAG/VR
Inst : VOA-C
Multiplr: 1.00
Quant Results File: 12290025.RES

Method : C:\HPCHEM\1\DATA\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 10:24:33 2000
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\122900\C18248.D
Acq On : 29 Dec 2000 14:03
Sample : ICV/CCV 10 ppb (V00084,V00057)
Misc : QC
MS Integration Params: rteint.p

Vial: 1
Operator: TAG/VR
Inst : VOA-C
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 10:24:33 2000
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	118	-0.02
2	T	Dichlorodifluoromethane	0.649	0.685	-5.5	130	-0.03
3	TP	Chloromethane	0.224	0.226	-0.9	128	0.00
4	TC	Vinyl Chloride	0.309	0.280	9.4	111	0.00
5	T	Bromomethane	0.274	0.269	1.8	114	0.02
6	T	Chloroethane	0.163	0.172	-5.5	119	0.00
7	T	Trichlorofluoromethane	0.885	0.810	8.5	112	-0.02
8	T	Acrolein	0.006	0.004	33.3#	95	0.02
9	T	Acrylonitrile	0.010	0.004	60.0#	53	-0.02
10	TMC	1,1-Dichloroethene	0.332	0.322	3.0	117	0.00
11	T	Acetone	0.002	0.002	0.0	133	-0.03
12	T	Iodomethane	0.462	0.291	37.0#	78	-0.03
13	T	Allylchloride	0.265	0.238	10.2	110	0.00
14	T	Carbon Disulfide	0.657	0.556	15.4	84	0.00
15	T	Acetonitrile	0.039	0.036	7.7	110	0.00
16	T	Methylene Chloride	0.244	0.135	44.7#	107	0.00
17	T	trans-1,2-Dichloroethene	0.335	0.324	3.3	117	-0.02
18	T	MethylTertButylEther	0.272	0.216	20.6	102	0.00
19	TP	1,1-Dichloroethane	0.532	0.495	7.0	112	0.00
20	T	Vinyl Acetate	0.061	0.047	23.0	97	0.00
21	T	2,2-Dichloropropane	0.583	0.547	6.2	113	-0.02
22	T	cis-1,2-Dichloroethene	0.283	0.261	7.8	112	-0.02
23	T	2-Butanone	0.005	0.004	20.0	114	0.00
24	T	Propionitrile	0.003	0.001	66.7#	66	-0.03
25	T	Methacrylonitrile	0.026	0.020	23.1	100	0.00
26	T	Bromochloromethane	0.108	0.096	11.1	109	0.01
27	TC	Chloroform	0.635	0.565	11.0	109	0.00
28	T	1,1,1-Trichloroethane	0.753	0.690	8.4	111	0.00
29	T	Carbon Tetrachloride	0.676	0.629	7.0	117	0.00
30	T	1,4-Dioxane	0.000	0.000	0.0	0#	0.01
31	T	1,1-Dichloropropene	0.183	0.168	8.2	108	0.00
32	S	1,2-Dichloroethane-d4	0.198	0.165	16.7	105	0.01
33	TM	Benzene	0.904	0.834	7.7	111	0.00
34	T	Isobutyl alcohol	0.002	0.001	50.0#	106	0.01
35	T	1,2-Dichloroethane	0.232	0.191	17.7	102	0.00
36	TM	Trichloroethene	0.473	0.427	9.7	109	0.00
37	TC	1,2-Dichloropropane	0.270	0.232	14.1	107	0.00
38	T	Dibromomethane	0.120	0.100	16.7	106	0.00
39	T	Methylmethacrylate	0.045	0.038	15.6	105	0.00
40	T	Bromodichloromethane	0.432	0.381	11.8	111	0.00
41	T	2-Nitropropane	0.010	0.009	10.0	105	-0.02
42	T	2-Chloroethyl-vinyl ether	0.004	0.002	50.0#	223#	-0.04

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\122900\C18248.D Vial: 1
Acq On : 29 Dec 2000 14:03 Operator: TAG/VR
Sample : ICV/CCV 10 ppb (V00084,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\DATA\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 10:24:33 2000
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
43	T	cis-1,3-Dichloropropene	0.312	0.274	12.2	109	0.00
44	T	4-Methyl-2-Pentanone	0.013	0.015	-15.4	120	0.19
45	I	Chlorobenzene-d5	1.000	1.000	0.0	112	0.00
46	S	Toluene-d8	1.481	1.561	-5.4	116	-0.02
47	TMC	Toluene	0.951	0.976	-2.6	115	0.00
48	T	trans-1,3-Dichloropropene	0.303	0.275	9.2	105	0.00
49	T	Ethylmethacrylate	0.171	0.148	13.5	103	-0.02
50	T	1,1,2-Trichloroethane	0.173	0.155	10.4	102	0.00
51	T	Tetrachloroethene	0.634	0.650	-2.5	113	0.00
52	T	1,3-Dichloropropane	0.318	0.288	9.4	102	0.00
53	T	2-Hexanone	0.046	0.035	23.9	87	-0.02
54	T	Dibromochloromethane	0.341	0.318	6.7	111	0.00
55	T	1,2-Dibromoethane	0.226	0.205	9.3	104	0.00
56	TMP	Chlorobenzene	1.083	1.058	2.3	111	0.00
57	T	1,1,1,2-Tetrachloroethane	0.456	0.428	6.1	107	0.00
58	TC	Ethylbenzene	1.936	1.967	-1.6	112	0.01
59	TG	total-Xylene	0.286	0.282	1.4	110	0.00
60	T	Styrene	0.962	0.925	3.8	106	0.00
61	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	110	0.00
62	TP	Bromoform	0.309	0.289	6.5	109	-0.02
63	T	Isopropylbenzene	4.857	4.882	-0.5	110	0.00
64	T	1,4-dichloro-2-Butene	0.310	0.253	18.4	101	0.01
65	S	Bromofluorobenzene	1.386	1.324	4.5	105	-0.02
66	T	Bromobenzene	0.826	0.823	0.4	113	-0.02
67	TP	1,1,2,2-Tetrachloroethane	0.379	0.339	10.6	103	0.00
68	T	1,2,3-Trichloropropane	0.310	0.253	18.4	101	0.01
69	T	n-Propylbenzene	5.212	5.255	-0.8	108	0.00
70	T	2-Chlorotoluene	2.852	2.710	5.0	106	-0.02
71	T	4-Chlorotoluene	3.798	3.649	3.9	107	0.00
72	T	1,3,5-Trimethylbenzene	3.722	3.642	2.1	106	0.00
73	T	Pentachloroethane	0.546	0.538	1.5	110	0.00
74	T	tert-Butylbenzene	4.507	4.512	-0.1	110	0.00
75	T	1,2,4-Trimethylbenzene	3.493	3.418	2.1	108	0.00
76	T	sec-Butylbenzene	5.596	5.637	-0.7	110	0.00
77	T	1,3-Dichlorobenzene	1.593	1.528	4.1	105	0.00
78	T	Isopropyltoluene	4.378	4.452	-1.7	110	0.00
79	T	1,4-Dichlorobenzene	1.784	1.718	3.7	113	0.00
80	T	1,2-Dichlorobenzene	1.252	1.187	5.2	107	0.00
81	T	n-Butylbenzene	4.257	4.422	-3.9	113	0.00
82	T	1,2-Dibromo-3-chloropropane	0.065	0.059	9.2	110	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\122900\C18248.D Vial: 1
Acq On : 29 Dec 2000 14:03 Operator: TAG/VR
Sample : ICV/CCV 10 ppb (V00084,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\DATA\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 10:24:33 2000
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
83	T	1,2,4-trichlorobenzene	0.899	0.825	8.2	109	0.01
84	T	Hexachlorobutadiene	1.275	1.255	1.6	104	0.00
85	T	Naphthalene	0.711	0.512	28.0#	102	0.00
86	T	1,2,3-Trichlorobenzene	0.630	0.522	17.1	100	0.00

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\122900\C18251.D Vial: 2
Acq On : 29 Dec 2000 15:59 Operator: TAG/VR
Sample : QVW 122900 C1 Inst : VOA-C
Misc : WATER BLANK 25ml DF=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 29 16:26 2000 Quant Results File: 12290025.RES

Quant Method : C:\HPCHEM\1\DATA\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 10:24:33 2000
Response via : Initial Calibration
DataAcq Meth : 12290025

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	6.45	168	441442	10.00 ug\L	-0.02
45) Chlorobenzene-d5	12.77	117	281553	10.00 ug\L	0.00
61) 1,4-Dichlorobenzene-d4	16.90	152	136373	10.00 ug\L	0.01
System Monitoring Compounds					
32) 1,2-Dichloroethane-d4	6.95	65	70982	8.10 ug\L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 81.00%		
46) Toluene-d8	10.27	98	414146	9.93 ug\L	0.00
Spiked Amount 10.000	Range 87 - 104		Recovery = 99.30%		
65) Bromofluorobenzene	14.87	95	182227	9.64 ug\L	0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 96.40%		

Target Compounds					Qvalue
16) Methylene Chloride	3.50	86	1123	~~-1.03 ug\L #~~	58
34) Isobutyl alcohol	7.16	43	182	~~-24.54 ug\L #~~	17
36) Trichloroethene	7.74	95	11421	~~-0.55 ug\L #~~	9
64) 1,4-dichloro-2-Butene	14.88	75	89405	~~21.16 ug\L #~~	100
68) 1,2,3-Trichloropropane	14.88	75	89405	~~21.15 ug\L #~~	100
85) Naphthalene	20.86	128	891	1.05 ug\L	100

VR
12/29/00

(#) = qualifier out of range (m) = manual integration

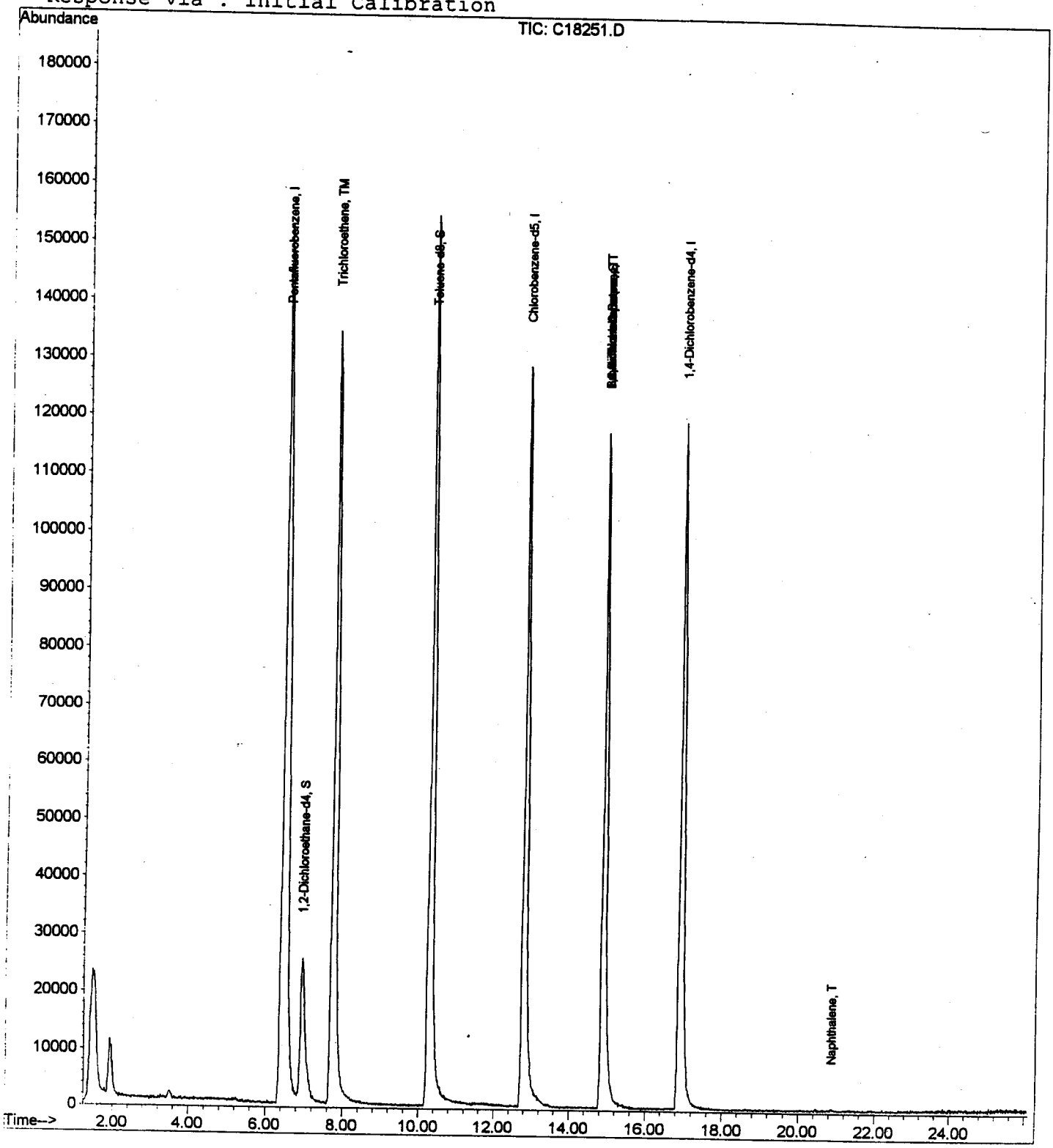
Quantitation Report

Data File : C:\HPCHEM\1\DATA\122900\C18251.D
Acq On : 29 Dec 2000 15:59
Sample : QVW 122900 C1
Misc : WATER BLANK 25ml DF=1
MS Integration Params: rteint.p
Quant Time: Dec 29 16:26 2000

Vial: 2
Operator: TAG/VR
Inst : VOA-C
Multiplr: 1.00

Quant Results File: 12290025.RES

Method : C:\HPCHEM\1\DATA\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 08:48:11 2000
Response via : Initial Calibration



TestAmerica
INCORPORATED

CASE NARRATIVE
January 11, 2001

Client: ACCURA ANALYTICAL (2656)
ATTN: BONNIE HOGUE
6017 FINANCIAL DR.
NORCROSS, GA 30071
1-770-449-8800 ext. 233

Client Project: #26563
Laboratory Project: 220787
Date Received: 12/21/00

Matrix: Water
Number of samples : 8
Date Collected : 12/20/00

Sample Receipt Notes: Per enclosed Chain of Custody, samples were properly preserved and received in good condition on 12/21/00. There were no anomalies noted in sample log-in. Analyses were extracted and performed within method required holding times following Test Methods for Evaluating Solid Waste, Physical/Chemical Methods (SW-846). Package was completed as a 'Level IV' with 'TETRATEC' electronic deliverables.

QC Notes:

PAH by SW846/8310 – BATCH: 5773
Eight ground water samples (TA #'s 00-A183950-183957) was extracted and analyzed for PAH by Method SW846 8310. All QC calibrations were within method required QC limits. All analyte compounds were calculated using linear regression. The method prep blank had no reported detection for analyte compounds. Surrogate recoveries were within required QC limit of 20-140%, except for 029-SMW7-04-00-07 – 19% was outside the required QC limit biased low. The sample used for MS/MSD was Sample ID: 029-SMW11-04-00-07 of this delivery group. The MS/MSD had fourteen out of the thirty-six spiked compounds outside the required QC limit for this QC batch. The %RPD had four of the spiked compounds outside the required QC limits. The Control spiked compounds were within required historical QC limits. The QC was accepted for this batch.

Note:
The Concentration of the Control is at 2.0ug/L because prep lab inadvertently added 2 mls of the standard when they should have added 1 ml.

PH by SW846/9040/150.1- Batch: 1168
Eight ground water samples (TA #'s 00-A183950-183957) were analyzed for PH by Method SW846 9040 150.1. A duplicate was performed on client sample # 029-SMW11-Q4-00-07 (TA # 00-A183955) yielding an acceptable RPD value. The pH meters used were calibrated to acceptable tolerances within method limits.

If you have any questions as you review this package, please call me at 1-800-765-0980.

Thanks

Glenn L. Norton
Technical Services
TestAmerica, Inc. - Nashville

2960 FOSTER CREIGHTON DRIVE / NASHVILLE,TN 37204 / 615-726-0177 / FAX: 615-726-0954 / 800-765-0980

ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

FAX COC TO NORCROSS

220787 **SUBCONTRACTOR CHAIN OF CUSTODY**

SUBCONTRACTED TO: **TEST AMERICA, INC.**

Subcontracted by: ACCURA ANALYTICAL LABORATORY, INC **(Acct# 2656)**

Address: 6017 Financial Drive, Norcross, GA 30071

Accura Lab Contact Name: ~~Mr. David Fuller~~ Ms. Bonnie Hogue

Contact Phone # (770) 449 - 8800, ext. ~~204~~ 233

Fax Number: (770) 449 - 5477

AAL PROJECT #: ~~25~~ 26563 DJ 12/21/00

Quote Number: 030100102199

12/21/00 DJ

For Laboratory Use Only

Custody Seal: (Y) N

QC Level: N 1 2 3 4

Entered into LIMS: 12/22/00

Page 1 OF 1

Init/Temp: 2.5°C

LAB Project # 220787

Sample Condition:

AAL #	Sample Date / Time	Comp	Grab	Matrix	Preserved	Station Location:	No. of Containers	PAH's (8310) *	Remarks	LAB #
AC	12/20/00 09:30		X	W	4°	029-SMW01-Q4-00-07	2	X	* CCI-NAVY	183950
AC	12:10					029-SMW02-Q4-00-07	2		~~DATA~~ PACKAGE III/C	951
AC	10:40					029-SMW03-Q4-00-07	2		~~REQUIRED~~.	952
AC	14:05					029-SMW07-Q4-00-07	2			953
AC	13:25					029-SMW10-Q4-00-07	2			954
AC	11:25					029-SMW11-Q4-00-07	4		MS/MSD	955
AC						029-DUP-Q4-00-07	2			956
AC	10:50					029-EQB-Q4-00-07	2			183957
AC										
AC										

Relinquished By:	Date / Time	Received By:	Date / Time	Special Requirements Or Remarks:
[signature]	12/21/00 12:19	[signature]	12/21 12:20	12/21/00 DJ ~~PLEASE FAX RESULTS!!~~ FAX PRELIMINARY
Relinquished By:	Date / Time	Received By:	Date / Time	Turnaround Time Requested:
[signature]	12/21 17:00			14 day Preliminary / 21 day Final

Matrix Guide: (S = Soil) (W = Water) (L = Liquid) (C = Cartridge) (SL = Sludge) (A = Air Sample) (F = Foods) (M = Miscellaneous) (D = Digestate)

TestAmerica-sub-coc
Revised 05/10/97

TESTAMERICA,INC.-NASHVILLE

COOLER RECEIPT FORM

Client: Accura Analytical Lab BC# 220787

Cooler Received On: 12/22/00 And Opened On: 12/22/00 By: James Jacobs

J Jacobs
(Signature)

1. Temperature of Cooler when opened 2.5 Degrees Celsius
2. Were custody seals on outside of cooler?.....YES NO
   a. If yes, how many, what kind and where:_____
3. Were custody seals on containers and intact?.....NO YES
4. Were the seals intact, signed, and dated correctly?.....~~YES NO~~
5. Were custody papers inside cooler?.....YES NO
6. Were custody papers properly filled out (ink,signed,etc)?.....YES NO
7. Did you sign the custody papers in the appropriate place?.....YES NO
8. What kind of packing material used? Bubblewrap Peanuts Vermiculite Other None
9. Was sufficient ice used (if appropriate)?.....YES NO
10. Did all bottles arrive in good condition(unbroken)?.....YES NO
11. Were all bottle labels complete (#,date,signed,pres,etc)?.....YES NO
12. Did all bottle labels and tags agree with custody papers?.....YES NO
13. Were correct bottles used for the analysis requested?.....YES NO
14. a. Were VOA vials received?.....YES NO
    b. Was there any observable head space present in any VOA vial?.....~~NO YES~~
15. Was sufficient amount of sample sent in each bottle?.....YES NO
16. Were correct preservatives used?.....YES NO
17. Was residual chlorine present?.....NO YES
17. Corrective action taken, if necessary:

    See attached for resolution

PAH'S by SW846/8310

SUMMARY DATA

TESTAMERICA, INC
2960 FOSTER CREIGHTON DRIVE
NASHVILLE, TN 37204
1-800-765-0980

TestAmerica
INCORPORATED

Sample Identification

029-SMW01-Q4-00-07

Matrix: Ground water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: 8310
Delivery Group: 220787
Instrument:
Vol Extracted: ml
Extract Vol: ml

Lab Sample ID: 00-A183950
Date Sampled:: 12/20/00
Date Received: 12/22/00
Analysis Date: 1/ 4/01
Analysis Time: 19:40
Sample QC Group: 5773

Extraction Date:

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1	U
83-32-9	Acenaphthene	1	U
120-12-7	Anthracene	1	U
206-44-0	Fluoranthene	0	U
7782-41-4	Fluorene	1	U
129-00-0	Pyrene	0	U
56-55-3	Benzo(a)anthracene	0	U
50-32-8	Benzo(a)pyrene	0	U
205-99-2	Benzo(b)fluoranthene	0	U
207-08-9	Benzo(k)fluoranthene	0	U
218-01-9	Chrysene	0	U
53-70-3	Dibenzo(a,h)anthracene	0	U
193-39-5	Indeno(1,2,3-cd)pyrene	0	U
208-96-8	Acenaphthylene	2	U
191-24-2	Benzo(g,h,i)perylene	1	U
85-01-8	Phenanthrene	1	U
90-12-0	1-Methylnapthalene	1	U
91-57-6	2-Methylnaphthalene	1	U

TestAmerica
INCORPORATED

Sample Identification

029-SMW02-Q4-00-07

Matrix: Ground water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: 8310
Delivery Group: 220787
Instrument:
Vol Extracted: ml
Extract Vol: ml

Lab Sample ID: 00-A183951
Date Sampled:: 12/20/00
Date Received: 12/22/00
Analysis Date: 1/ 4/01
Analysis Time: 19:40
Sample QC Group: 5773

Extraction Date:

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1	U
83-32-9	Acenaphthene	1	U
120-12-7	Anthracene	1	U
206-44-0	Fluoranthene	0	U
7782-41-4	Fluorene	1	U
129-00-0	Pyrene	0	U
56-55-3	Benzo(a)anthracene	0	U
50-32-8	Benzo(a)pyrene	0	U
205-99-2	Benzo(b)fluoranthene	0	U
207-08-9	Benzo(k)fluoranthene	0	U
218-01-9	Chrysene	0	U
53-70-3	Dibenzo(a,h)anthracene	0	U
193-39-5	Indeno(1,2,3-cd)pyrene	0	U
208-96-8	Acenaphthylene	2	U
191-24-2	Benzo(g,h,i)perylene	1	U
85-01-8	Phenanthrene	1	U
90-12-0	1-Methylnapthalene	1	U
91-57-6	2-Methylnaphthalene	1	U

TestAmerica
INCORPORATED

Sample Identification

029-SMW03-Q4-00-07

Matrix: Ground water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: 8310
Delivery Group: 220787
Instrument:
Vol Extracted: ml
Extract Vol: ml

Lab Sample ID: 00-A183952
Date Sampled:: 12/20/00
Date Received: 12/22/00
Analysis Date: 1/ 4/01
Analysis Time: 19:40
Sample QC Group: 5773

Extraction Date:

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1	U
83-32-9	Acenaphthene	1	U
120-12-7	Anthracene	1	U
206-44-0	Fluoranthene	0	U
7782-41-4	Fluorene	1	U
129-00-0	Pyrene	0	U
56-55-3	Benzo(a)anthracene	0	U
50-32-8	Benzo(a)pyrene	0	U
205-99-2	Benzo(b)fluoranthene	0	U
207-08-9	Benzo(k)fluoranthene	0	U
218-01-9	Chrysene	0	U
53-70-3	Dibenzo(a,h)anthracene	0	U
193-39-5	Indeno(1,2,3-cd)pyrene	0	U
208-96-8	Acenaphthylene	2	U
191-24-2	Benzo(g,h,i)perylene	1	U
85-01-8	Phenanthrene	1	U
90-12-0	1-Methylnapthalene	1	U
91-57-6	2-Methylnaphthalene	1	U

TestAmerica
INCORPORATED

Sample Identification

029-SMW07-Q4-00-07

Matrix: Ground water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: 8310
Delivery Group: 220787
Instrument:
Vol Extracted: ml
Extract Vol: ml

Lab Sample ID: 00-A183953
Date Sampled:: 12/20/00
Date Received: 12/22/00
Analysis Date: 1/ 4/01
Analysis Time: 19:40
Sample QC Group: 5773

Extraction Date:

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	11	U
83-32-9	Acenaphthene	11	U
120-12-7	Anthracene	7	U
206-44-0	Fluoranthene	2	U
7782-41-4	Fluorene	6	U
129-00-0	Pyrene	3	U
56-55-3	Benzo(a)anthracene	1	U
50-32-8	Benzo(a)pyrene	1	U
205-99-2	Benzo(b)fluoranthene	2	U
207-08-9	Benzo(k)fluoranthene	2	U
218-01-9	Chrysene	2	U
53-70-3	Dibenzo(a,h)anthracene	3	U
193-39-5	Indeno(1,2,3-cd)pyrene	5	U
208-96-8	Acenaphthylene	22	U
191-24-2	Benzo(g,h,i)perylene	8	U
85-01-8	Phenanthrene	7	U
90-12-0	1-Methylnapthalene	11	U
91-57-6	2-Methylnaphthalene	11	U

TestAmerica
INCORPORATED

Sample Identification

029-SMW10-Q4-00-07

Matrix: Ground water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: 8310
Delivery Group: 220787
Instrument:
Vol Extracted: ml
Extract Vol: ml

Lab Sample ID: 00-A183954
Date Sampled:: 12/20/00
Date Received: 12/22/00
Analysis Date: 1/ 4/01
Analysis Time: 19:40
Sample QC Group: 5773

Extraction Date:

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1	U
83-32-9	Acenaphthene	1	U
120-12-7	Anthracene	1	U
206-44-0	Fluoranthene	0	U
7782-41-4	Fluorene	1	U
129-00-0	Pyrene	0	U
56-55-3	Benzo(a)anthracene	0	U
50-32-8	Benzo(a)pyrene	0	U
205-99-2	Benzo(b)fluoranthene	0	U
207-08-9	Benzo(k)fluoranthene	0	U
218-01-9	Chrysene	0	U
53-70-3	Dibenzo(a,h)anthracene	0	U
193-39-5	Indeno(1,2,3-cd)pyrene	0	U
208-96-8	Acenaphthylene	2	U
191-24-2	Benzo(g,h,i)perylene	1	U
85-01-8	Phenanthrene	1	U
90-12-0	1-Methylnapthalene	1	U
91-57-6	2-Methylnaphthalene	1	U

TestAmerica
INCORPORATED

Sample Identification

029-SMW11-Q4-00-07

Matrix: Ground water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: 8310
Delivery Group: 220787
Instrument:
Vol Extracted: ml
Extract Vol: ml

Lab Sample ID: 00-A183955
Date Sampled:: 12/20/00
Date Received: 12/22/00
Analysis Date: 1/ 4/01
Analysis Time: 19:40
Sample QC Group: 5773

Extraction Date:

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	11	
83-32-9	Acenaphthene	1	U
120-12-7	Anthracene	1	U
206-44-0	Fluoranthene	0	U
7782-41-4	Fluorene	1	U
129-00-0	Pyrene	0	U
56-55-3	Benzo(a)anthracene	0	U
50-32-8	Benzo(a)pyrene	0	U
205-99-2	Benzo(b)fluoranthene	0	U
207-08-9	Benzo(k)fluoranthene	0	U
218-01-9	Chrysene	0	U
53-70-3	Dibenzo(a,h)anthracene	0	U
193-39-5	Indeno(1,2,3-cd)pyrene	0	U
208-96-8	Acenaphthylene	2	U
191-24-2	Benzo(g,h,i)perylene	1	U
85-01-8	Phenanthrene	1	U
90-12-0	1-Methylnapthalene	6	
91-57-6	2-Methylnaphthalene	5	

TestAmerica
INCORPORATED

Sample Identification

029-DUP-Q4-00-07

Matrix: Ground water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: 8310
Delivery Group: 220787
Instrument:
Vol Extracted: ml
Extract Vol: ml

Lab Sample ID: 00-A183956
Date Sampled:: 12/20/00
Date Received: 12/22/00
Analysis Date: 1/ 4/01
Analysis Time: 19:40
Sample QC Group: 5773

Extraction Date:

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1	U
83-32-9	Acenaphthene	1	U
120-12-7	Anthracene	1	U
206-44-0	Fluoranthene	0	U
7782-41-4	Fluorene	1	U
129-00-0	Pyrene	0	U
56-55-3	Benzo(a)anthracene	0	U
50-32-8	Benzo(a)pyrene	0	U
205-99-2	Benzo(b)fluoranthene	0	U
207-08-9	Benzo(k)fluoranthene	0	U
218-01-9	Chrysene	0	U
53-70-3	Dibenzo(a,h)anthracene	0	U
193-39-5	Indeno(1,2,3-cd)pyrene	0	U
208-96-8	Acenaphthylene	2	U
191-24-2	Benzo(g,h,i)perylene	1	U
85-01-8	Phenanthrene	1	U
90-12-0	1-Methylnapthalene	1	U
91-57-6	2-Methylnaphthalene	1	U

TestAmerica
INCORPORATED

Sample Identification

029-EQB-Q4-00-07

Matrix: Ground water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: 8310
Delivery Group: 220787
Instrument:
Vol Extracted: ml
Extract Vol: ml

Lab Sample ID: 00-A183957
Date Sampled:: 12/20/00
Date Received: 12/22/00
Analysis Date: 1/ 4/01
Analysis Time: 19:40
Sample QC Group: 5773

Extraction Date:

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1	U
83-32-9	Acenaphthene	1	U
120-12-7	Anthracene	1	U
206-44-0	Fluoranthene	0	U
7782-41-4	Fluorene	1	U
129-00-0	Pyrene	0	U
56-55-3	Benzo(a)anthracene	0	U
50-32-8	Benzo(a)pyrene	0	U
205-99-2	Benzo(b)fluoranthene	0	U
207-08-9	Benzo(k)fluoranthene	0	U
218-01-9	Chrysene	0	U
53-70-3	Dibenzo(a,h)anthracene	0	U
193-39-5	Indeno(1,2,3-cd)pyrene	0	U
208-96-8	Acenaphthylene	2	U
191-24-2	Benzo(g,h,i)perylene	1	U
85-01-8	Phenanthrene	1	U
90-12-0	1-Methylnapthalene	1	U
91-57-6	2-Methylnaphthalene	1	U

TestAmerica
INCORPORATED

Sample Identification

BLANK

Matrix: Water
% Dry Weight:
Units: UG/L
Dilution Factor: 1
Analysis Method: SW8310
Delivery Group: 220787
Instrument:
Vol Extracted: 1000 ml
Extract Vol: 1.0 ml

Lab Sample ID: BLANK
Date Sampled: 12/20/00
Date Received: 12/22/00
Analysis Date: 1/ 4/01
Analysis Time: 19:40
Sample QC Group: 5773

Extraction Date:

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1.00	U
83-32-9	Acenaphthene	1.00	U
120-12-7	Anthracene	0.66	U
206-44-0	Fluoranthene	0.21	U
7782-41-4	Fluorene	0.50	U
129-00-0	Pyrene	0.27	U
56-55-3	Benzo(a)anthracene	0.13	U
50-32-8	Benzo(a)pyrene	0.10	U
205-99-2	Benzo(b)fluoranthene	0.18	U
207-08-9	Benzo(k)fluoranthene	0.17	U
218-01-9	Chrysene	0.15	U
53-70-3	Dibenzo(a,h)anthracene	0.30	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.43	U
208-96-8	Acenaphthylene	2.00	U
191-24-2	Benzo(g,h,i)perylene	0.76	U
85-01-8	Phenanthrene	0.64	U
90-12-0	1-Methylnapthalene	1.00	U
91-57-6	2-Methylnaphthalene	1.00	U

2A

8310 PAH SURROGATE RECOVERY SUMMARY

Lab Name: Test America

SDG # 220787

	SAMPLE NO.			Surrogat % Recovery		TOT OUT
01	BLANK W			96		0
02	029-SMW11-04-00-07 MS			86		0
03	029-SMW11-04-00-07 MSD			118		0
04	CONTROL W			126		0
05	029-SMW01-04-00-07			30		0
06	029-SMW02-04-00-07			33		0
07	029-SMW03-04-00-07			53		0
08	029-SMW7-04-00-07			19		1
09	029-SMW10-04-00-07			52		0
10	029-SMW11-04-00-07			37		0
11	029-DUP-04-00-07			39		0
12	029-E0B-04-00-07			75		0
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

QC LIMITS: 20-140

Surrogate used: **P-Terphenyl d-14**

(+): Surrogate not determined due to interference

*** Values outside of contract required QC limits**

D System Monitoring Compound diluted out

8310 PAH MATRIX SPIKE/SPIKE DUPLICATE SUMMARY

Lab Name : Test America **Matrix Spike No:** 029-SMW11-04-00-07 MS

SDG # 220787

COMPOUND	Spike Added ug/L		Sample Conc. ug/L	MS CONC ug/L	MS %	QC Limits %REC	
Napthalene	1.000		11.1	12.84	175.0	20-151	*
Acenapthylene	1.000		0.0	0.50	50.0	20-140	
1-Methyl-naphthalene	1.000		6.2	7.16	99.0	10-118	
2-Methyl-naphthalene	1.000		4.8	4.74	-2.0	10-118	*
Acenapthene	1.000		0.0	0.44	44.0	18-134	
Flourene	1.000		0.0	1.14	114.0	40-143	
Phenanthrene	1.000		0.0	1.56	156.0	33-105	*
Anthracene	1.000		0.0	1.14	114.0	38-97	*
Flouranthene	1.000		0.0	1.28	128.0	40-143	
Pyrene	1.000		0.0	1.32	132.0	33-129	*
Benzo(a)anthracene	1.000		0.0	1.04	104.0	47-113	
Chrysene	1.000		0.0	0.90	90.0	45-115	
Benzo(b)flouranthene	1.000		0.0	1.14	114.0	47-113	*
Benzo(k)flouranthene	1.000		0.0	0.96	96.0	48-118	
Benzo(a)pyrene	1.000		0.0	0.90	90.0	34-119	
Dibenz(ah)anthracene	1.000		0.0	1.08	108.0	42-113	
Benzo(ghi)Perylene	1.000		0.0	0.88	88.0	42-130	
Indeno(123cd)pyrene	1.000		0.0	0.88	88.0	38-114	

COMPOUND	Raw Value ug/L		MSD Concen ug/L	MSD REC %	% RPD	%RPD QC Limits	QC Limits %REC
Napthalene	7.79000		15.58	449.0 *	88 *	70	20-151
Acenapthylene	0.13000		0.26	26.0	63	91	20-140
1-Methyl-naphthalene	4.43000		8.86	269.0 *	92 *	31	10-118
2-Methyl-naphthalene	2.94000		5.88	112.0	207 *	79	10-118
Acenapthene	1.36000		2.72	272.0 *	144 *	77	18-134
Flourene	0.69000		1.38	138.0	19	61	40-143
Phenanthrene	0.92000		1.84	184.0 *	16	65	33-105
Anthracene	0.72000		1.44	144.0 *	23	62	38-97
Flouranthene	0.82000		1.64	164.0 *	25	64	40-143
Pyrene	0.82000		1.64	164.0 *	22	62	33-129
Benzo(a)anthracene	0.61000		1.22	122.0 *	16	59	47-113
Chrysene	0.55000		1.10	110.0	20	58	45-115
Benzo(b)flouranthene	0.46000		0.92	92.0	21	59	47-113
Benzo(k)flouranthene	0.48000		0.96	96.0	0	59	48-118
Benzo(a)pyrene	0.43000		0.86	86.0	5	62	34-119
Dibenz(ah)anthracene	0.34000		0.68	68.0	45	64	42-113
Benzo(ghi)Perylene	0.31000		0.62	62.0	35	69	42-130
Indeno(123cd)pyrene	0.40000		0.80	80.0	10	70	38-114

* **Values outside of contract required QC limits**

8310 PAH LABORATORY CONTROL SPIKE SUMMARY

Lab Name : Test America **Lab Control Spike No:** CONTROL W

SDG # 220787

COMPOUND	Spike Added ug/L		Sample Conc. ug/L	Raw Value ug/L	LCS REC ug/L	LCS %	QC Limits Limits
Napthalene	2.000		0	1.56	1.56000	78.0	20-151
Acenapthylene	2.000		0	1.24	1.24000	62.0	20-140
1-Methyl-naphthalene	2.000		0	0.92	0.92000	46.0	26-100
2-Methyl-naphthalene	2.000		0	0.94	0.94000	47.0	10-118
Acenapthene	2.000		0	0.82	0.82000	41.0	18-134
Flourene	2.000		0	1.24	1.24000	62.0	33-105
Phenanthrene	2.000		0	1.28	1.28000	64.0	37-105
Anthracene	2.000		0	1.22	1.22000	61.0	38-97
Flouranthene	2.000		0	1.36	1.36000	68.0	40-143
Pyrene	2.000		0	1.26	1.26000	63.0	33-129
Benzo(a)anthracene	2.000		0	1.32	1.32000	66.0	47-113
Chrysene	2.000		0	1.52	1.52000	76.0	45-115
Benzo(b)flouranthene	2.000		0	1.28	1.28000	64.0	47-113
Benzo(k)flouranthene	2.000		0	1.30	1.30000	65.0	48-118
Benzo(a)pyrene	2.000		0	1.26	1.26000	63.0	34-119
Dibenz(ah)anthracene	2.000		0	1.50	1.50000	75.0	42-113
Benzo(ghi)Perylene	2.000		0	1.28	1.28000	64.0	42-130
Indeno(123cd)pyrene	2.000		0	1.28	1.28000	64.0	38-114

* **Values outside of contract required QC limits**

4C

8310 PAH,S METHOD BLANK SUMMARY

SAMPLE NO.

XBLANK W

Lab Name: Test America

Lab Sample ID: 30515 wbb

SDG # 220787

Lab File ID: 0104hp3.021

Instrument ID: HPLC 3

Date Analyzed: 01/04/00

Extract Volume: 1000 ml

Time Analyzed: 17:55

Volume Extracted: 1 ml

Date Received: 12/21/00

HPLC Column: Reverse Pahse c18

Date Extracted: 12/26/00

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD AND LCS:

	CLIENT ID	LAB ID	LAB FILE ID	DATE	TIME ANALYZED
01	029-SMW11-04-00-07 MS	30516 wsb	0104hp3.022	1/4/01	18:21
02	029-SMW11-04-00-07 MSD	30517 wsb	0104hp3.023	1/4/01	18:48
03	CONTROL W	30984 lcs	0104hp3.024	1/4/01	19:14
04	029-SMW01-04-00-07	183950	0104hp3.025	1/4/01	19:40
05	029-SMW02-04-00-07	183951	0104hp3.026	1/4/01	20:06
06	029-SMW03-04-00-07	183952	0104hp3.027	1/4/01	20:32
07	029-SMW7-04-00-07	183953	0104hp3.028	1/4/01	20:59
08	029-SMW10-04-00-07	183954	0104hp3.029	1/4/01	21:25
09	029-SMW11-04-00-07	183955	0104hp3.030	1/4/01	21:51
10	029-DUP-04-00-07	183956	0104hp3.032	1/4/01	22:44
11	029-E0B-04-00-07	183957	0104hp3.033	1/4/01	23:10
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					

COMMENTS:

PAH'S by SW846/8310

RAW DATA

TESTAMERICA, INC
2960 FOSTER CREIGHTON DRIVE
NASHVILLE, TN 37204
1-800-765-0980

TestAmerica
INCORPORATED

Sample Identification

029-SMW01-Q4-00-07

Matrix: Ground water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: 8310
Delivery Group: 220787
Instrument:
Vol Extracted: ml
Extract Vol: ml

Lab Sample ID: 00-A183950
Date Sampled:: 12/20/00
Date Received: 12/22/00
Analysis Date: 1/ 4/01
Analysis Time: 19:40
Sample QC Group: 5773

Extraction Date:

FORM I

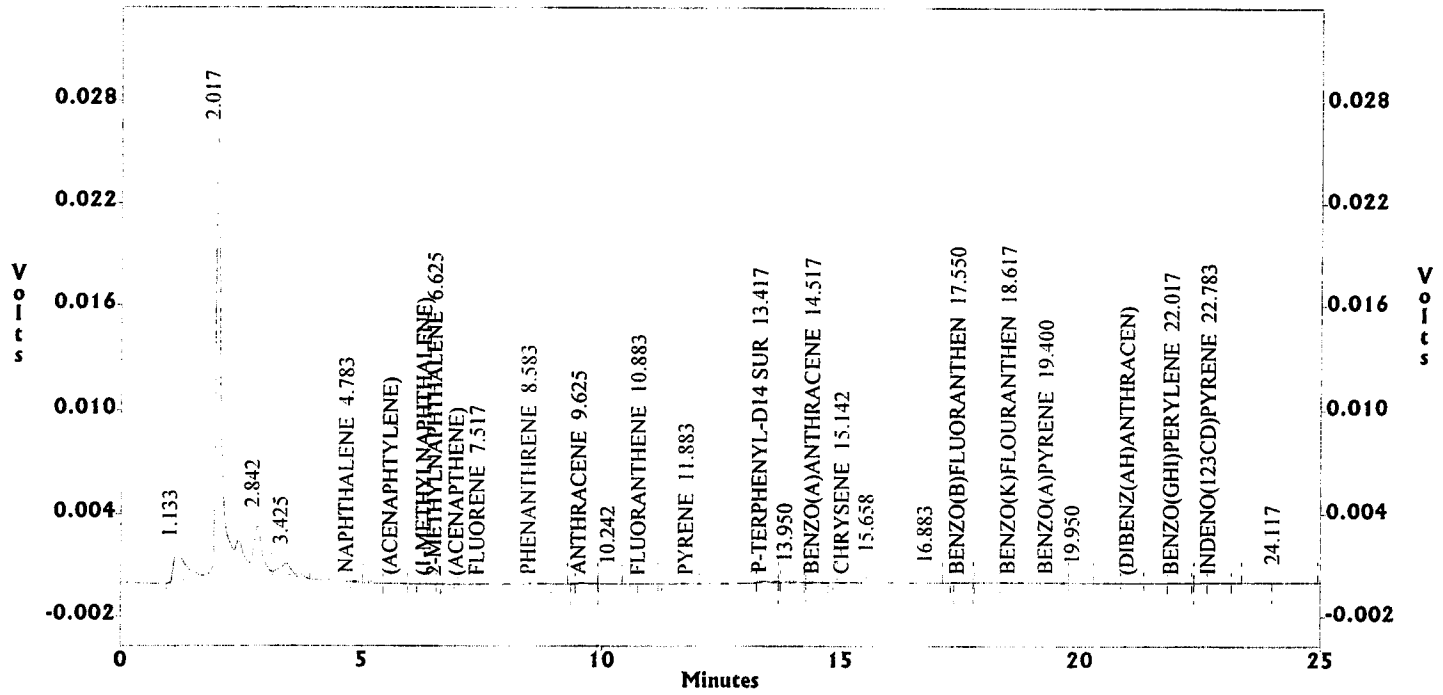
CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1	U
83-32-9	Acenaphthene	1	U
120-12-7	Anthracene	1	U
206-44-0	Fluoranthene	0	U
7782-41-4	Fluorene	1	U
129-00-0	Pyrene	0	U
56-55-3	Benzo(a)anthracene	0	U
50-32-8	Benzo(a)pyrene	0	U
205-99-2	Benzo(b)fluoranthene	0	U
207-08-9	Benzo(k)fluoranthene	0	U
218-01-9	Chrysene	0	U
53-70-3	Dibenzo(a,h)anthracene	0	U
193-39-5	Indeno(1,2,3-cd)pyrene	0	U
208-96-8	Acenaphthylene	2	U
191-24-2	Benzo(g,h,i)perylene	1	U
85-01-8	Phenanthrene	1	U
90-12-0	1-Methylnapthalene	1	U
91-57-6	2-Methylnaphthalene	1	U

2960 Foster Creighton Drive / Nashville,TN 37204 / 615-726-0177 / Fax: 615-726-0954 / 800-765-0980

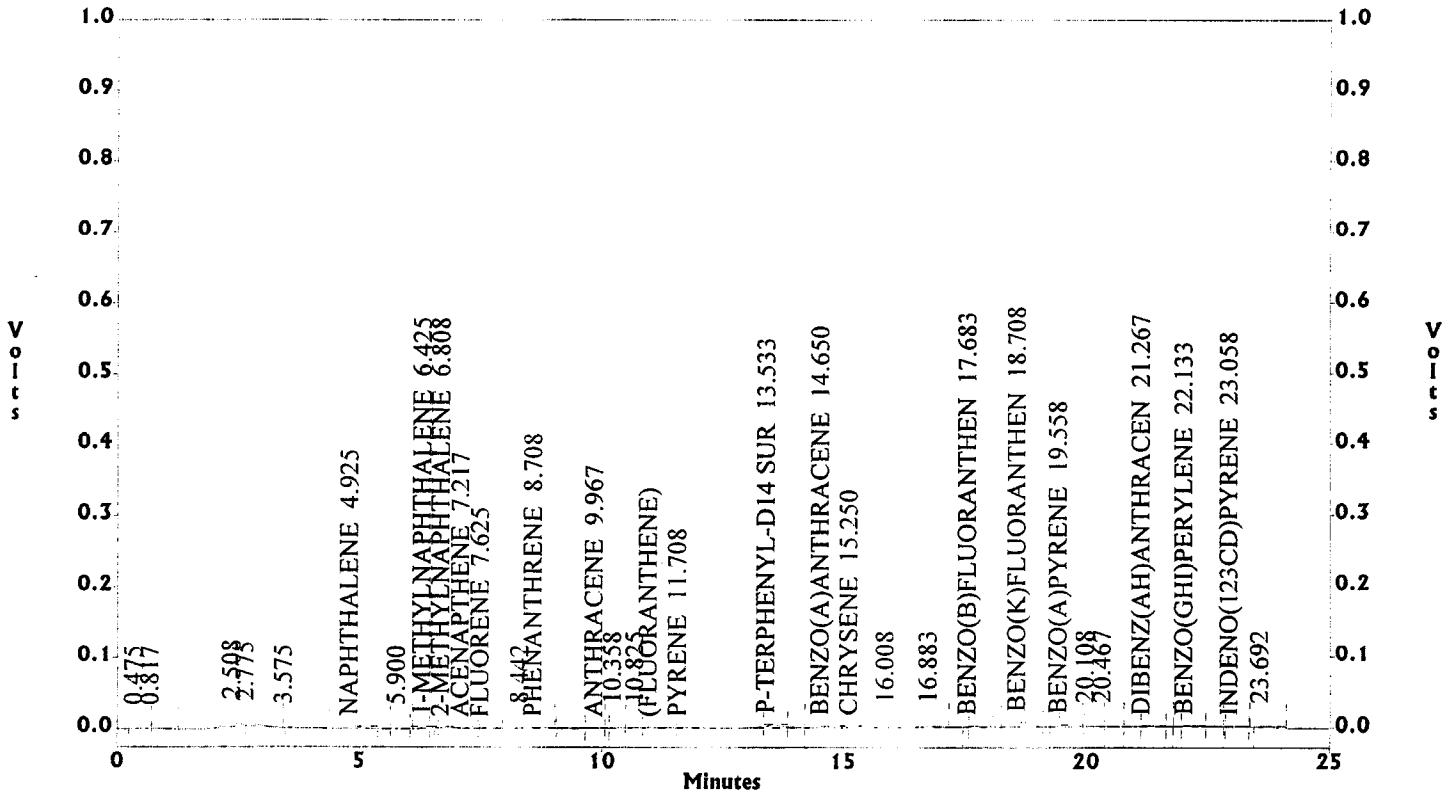
HPLC 1

File : c:\ezchromb\chrom\0104hp3.025
Method : c:\ezchromb\methods\lc1\13ph1204.met
Sample ID : 183950
Acquired : Jan 04, 2001 19:40:29
Printed : Jan 05, 2001 07:40:36
User : System

c:\ezchromb\chrom\0104hp3.025 -- Channel A



c:\ezchromb\chrom\0104hp3.025 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\0104hp3.025
Method : c:\ezchromb\methods\lc1\l3ph1204.met
Sample ID : 183950
Acquired : Jan 04, 2001 19:40:29
Printed : Jan 05, 2001 07:40:37
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	4.78	390	0.20
ACENAPHTYLENE	5.70	0	0.00
1-METHYLNAPHT	6.40	0	0.00
2-METHYLNAPHT	6.63	133	0.08
ACENAPTHENE	7.08	0	0.00
FLUORENE	7.52	320	0.04
PHENANTHRENE	8.58	987	0.04
ANTHRACENE	9.63	772	0.01
FLUORANTHENE	10.88	190	0.03
PYRENE	11.88	493	0.10
P-TERPHENYL-D	13.42	1492	0.30 ✓
BENZO(A)ANTHR	14.52	211	0.02
CHRYSENE	15.14	320	0.02
BENZO(B)FLUOR	17.55	145	0.01
BENZO(K)FLOUR	18.62	473	0.06
BENZO(A)PYREN	19.40	394	0.06
DIBENZ(AH)ANT	21.10	0	0.00
BENZO(GHI)PER	22.02	442	0.10
INDENO(123CD)	22.78	687	0.08

Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	4.93	60505	0.23
1-METHYLNAPHT	6.43	38487	0.04
2-METHYLNAPHT	6.81	25822	0.00
ACENAPTHENE	7.22	5403	0.00
FLUORENE	7.63	8398	0.08
PHENANTHRENE	8.71	11764	0.00
ANTHRACENE	9.97	12983	0.05
FLUORANTHENE	11.10	0	0.00
PYRENE	11.71	23998	0.03
P-TERPHENYL-D	13.53	113839	0.53
BENZO(A)ANTHR	14.65	37519	0.04
CHRYSENE	15.25	57235	0.03
BENZO(B)FLUOR	17.68	20566	0.00
BENZO(K)FLUOR	18.71	103571	0.00
BENZO(A)PYREN	19.56	38704	0.03
DIBENZ(AH)ANT	21.27	16342	0.00
BENZO(GHI)PER	22.13	23472	0.00
INDENO(123CD)	23.06	6190	0.05

TestAmerica
INCORPORATED

Sample Identification

029-SMW02-Q4-00-07

Matrix: Ground water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: 8310
Delivery Group: 220787
Instrument:
Vol Extracted: ml
Extract Vol: ml

Lab Sample ID: 00-A183951
Date Sampled:: 12/20/00
Date Received: 12/22/00
Analysis Date: 1/ 4/01
Analysis Time: 19:40
Sample QC Group: 5773

Extraction Date:

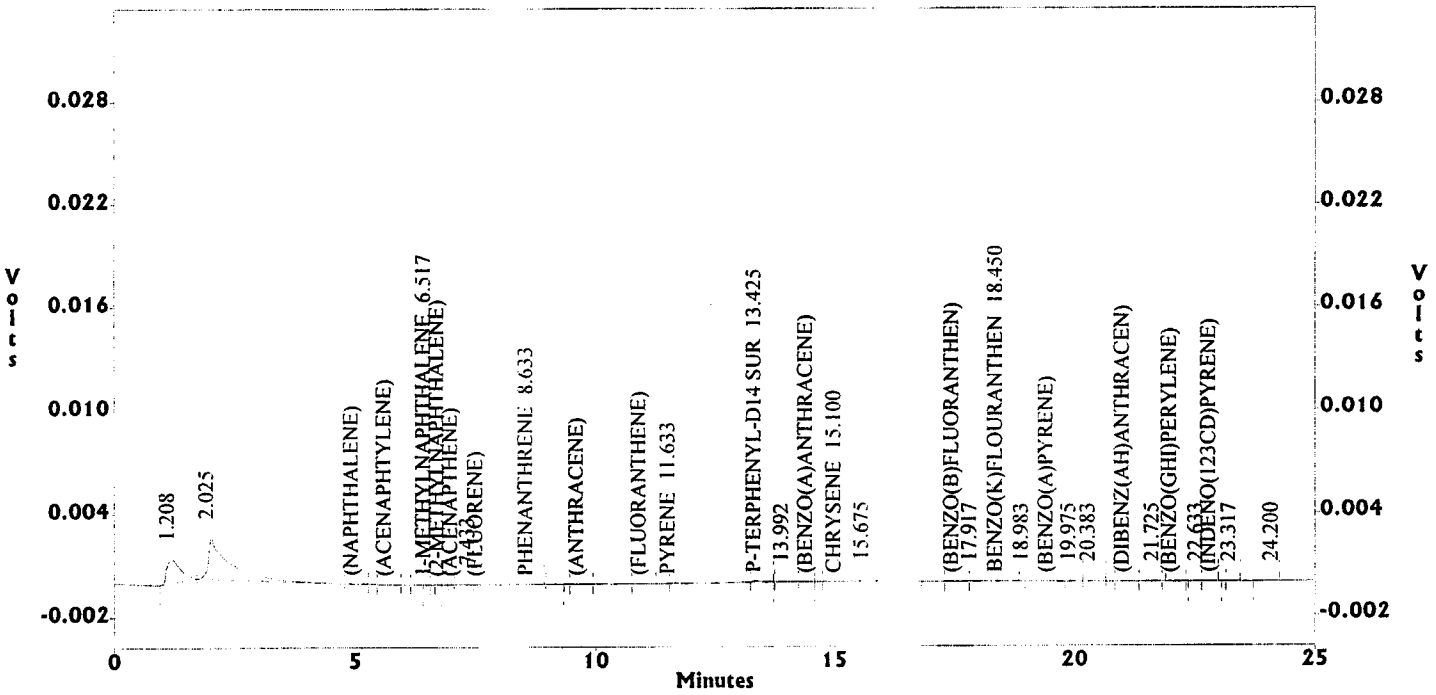
FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1	U
83-32-9	Acenaphthene	1	U
120-12-7	Anthracene	1	U
206-44-0	Fluoranthene	0	U
7782-41-4	Fluorene	1	U
129-00-0	Pyrene	0	U
56-55-3	Benzo(a)anthracene	0	U
50-32-8	Benzo(a)pyrene	0	U
205-99-2	Benzo(b)fluoranthene	0	U
207-08-9	Benzo(k)fluoranthene	0	U
218-01-9	Chrysene	0	U
53-70-3	Dibenzo(a,h)anthracene	0	U
193-39-5	Indeno(1,2,3-cd)pyrene	0	U
208-96-8	Acenaphthylene	2	U
191-24-2	Benzo(g,h,i)perylene	1	U
85-01-8	Phenanthrene	1	U
90-12-0	1-Methylnapthalene	1	U
91-57-6	2-Methylnaphthalene	1	U

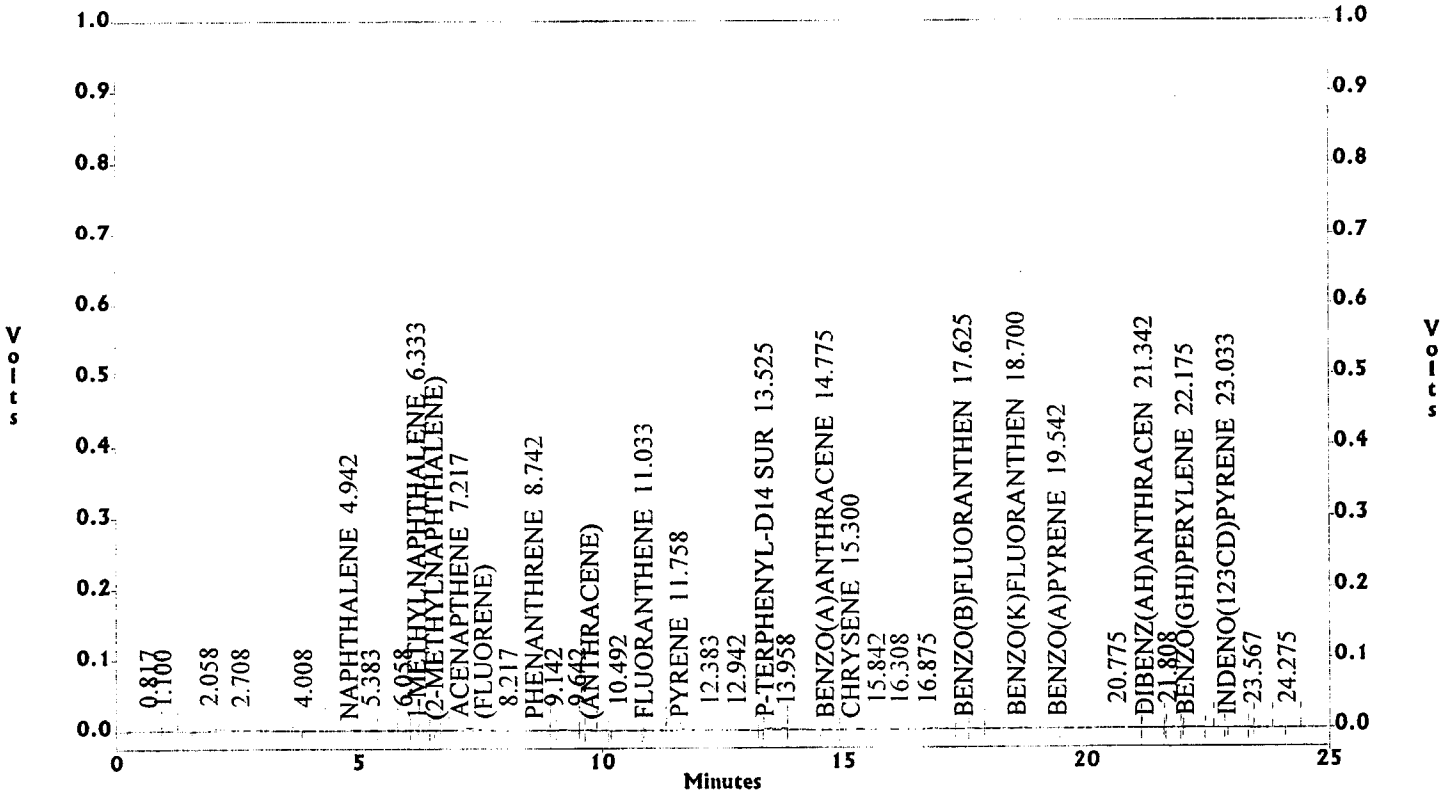
HPLC 1

File : c:\ezchromb\chrom\0104hp3.026
Method : c:\ezchromb\methods\lc1\13ph1204.met
Sample ID : 183951
Acquired : Jan 04, 2001 20:06:43
Printed : Jan 05, 2001 07:40:39
User : System

c:\ezchromb\chrom\0104hp3.026 -- Channel A



c:\ezchromb\chrom\0104hp3.026 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\0104hp3.026
Method : c:\ezchromb\methods\lc1\l3ph1204.met
Sample ID : 183951
Acquired : Jan 04, 2001 20:06:43
Printed : Jan 05, 2001 07:40:39
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	5.02	0	0.00
ACENAPHTYLENE	5.70	0	0.00
1-METHYLNAPHT	6.52	64	0.06
2-METHYLNAPHT	6.80	0	0.00
ACENAPTHENE	7.08	0	0.00
FLUORENE	7.60	0	0.00
PHENANTHRENE	8.63	390	0.02
ANTHRACENE	9.70	0	0.00
FLUORANTHENE	11.02	0	0.00
PYRENE	11.63	1151	0.23
P-TERPHENYL-D	13.43	1627	0.33
BENZO(A)ANTHR	14.50	0	0.00
CHRYSENE	15.10	239	0.02
BENZO(B)FLUOR	17.55	0	0.00
BENZO(K)FLOUR	18.45	146	0.03
BENZO(A)PYREN	19.51	0	0.00
DIBENZ(AH)ANT	21.10	0	0.00
BENZO(GHI)PER	22.08	0	0.00
INDENO(123CD)	22.90	0	0.00

Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	4.94	18031	0.08
1-METHYLNAPHT	6.33	6281	0.00
2-METHYLNAPHT	6.70	0	0.00
ACENAPTHENE	7.22	95406	0.09
FLUORENE	7.70	0	0.00
PHENANTHRENE	8.74	7497	0.00
ANTHRACENE	9.90	0	0.00
FLUORANTHENE	11.03	12956	0.05
PYRENE	11.76	37580	0.05
P-TERPHENYL-D	13.52	45815	0.18
BENZO(A)ANTHR	14.77	10313	0.02
CHRYSENE	15.30	14757	0.02
BENZO(B)FLUOR	17.63	6352	0.00
BENZO(K)FLUOR	18.70	21494	0.00
BENZO(A)PYREN	19.54	9534	0.02
DIBENZ(AH)ANT	21.34	2383	0.00
BENZO(GHI)PER	22.17	7612	0.00
INDENO(123CD)	23.03	5023	0.04

TestAmerica
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Sample Identification

029-SMW03-Q4-00-07

Matrix: Ground water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: 8310
Delivery Group: 220787
Instrument:
Vol Extracted: ml
Extract Vol: ml

Lab Sample ID: 00-A183952
Date Sampled:: 12/20/00
Date Received: 12/22/00
Analysis Date: 1/ 4/01
Analysis Time: 19:40
Sample QC Group: 5773

Extraction Date:

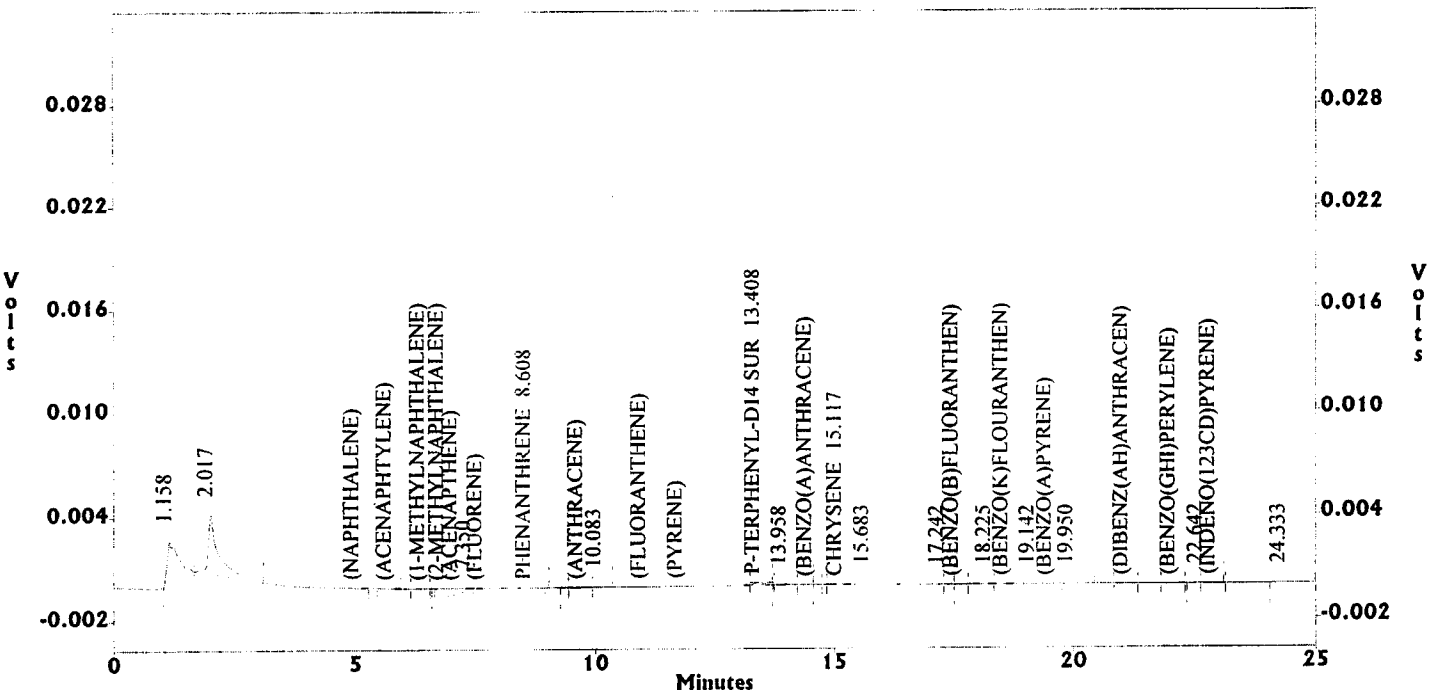
FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1	U
83-32-9	Acenaphthene	1	U
120-12-7	Anthracene	1	U
206-44-0	Fluoranthene	0	U
7782-41-4	Fluorene	1	U
129-00-0	Pyrene	0	U
56-55-3	Benzo(a)anthracene	0	U
50-32-8	Benzo(a)pyrene	0	U
205-99-2	Benzo(b)fluoranthene	0	U
207-08-9	Benzo(k)fluoranthene	0	U
218-01-9	Chrysene	0	U
53-70-3	Dibenzo(a,h)anthracene	0	U
193-39-5	Indeno(1,2,3-cd)pyrene	0	U
208-96-8	Acenaphthylene	2	U
191-24-2	Benzo(g,h,i)perylene	1	U
85-01-8	Phenanthrene	1	U
90-12-0	1-Methylnapthalene	1	U
91-57-6	2-Methylnaphthalene	1	U

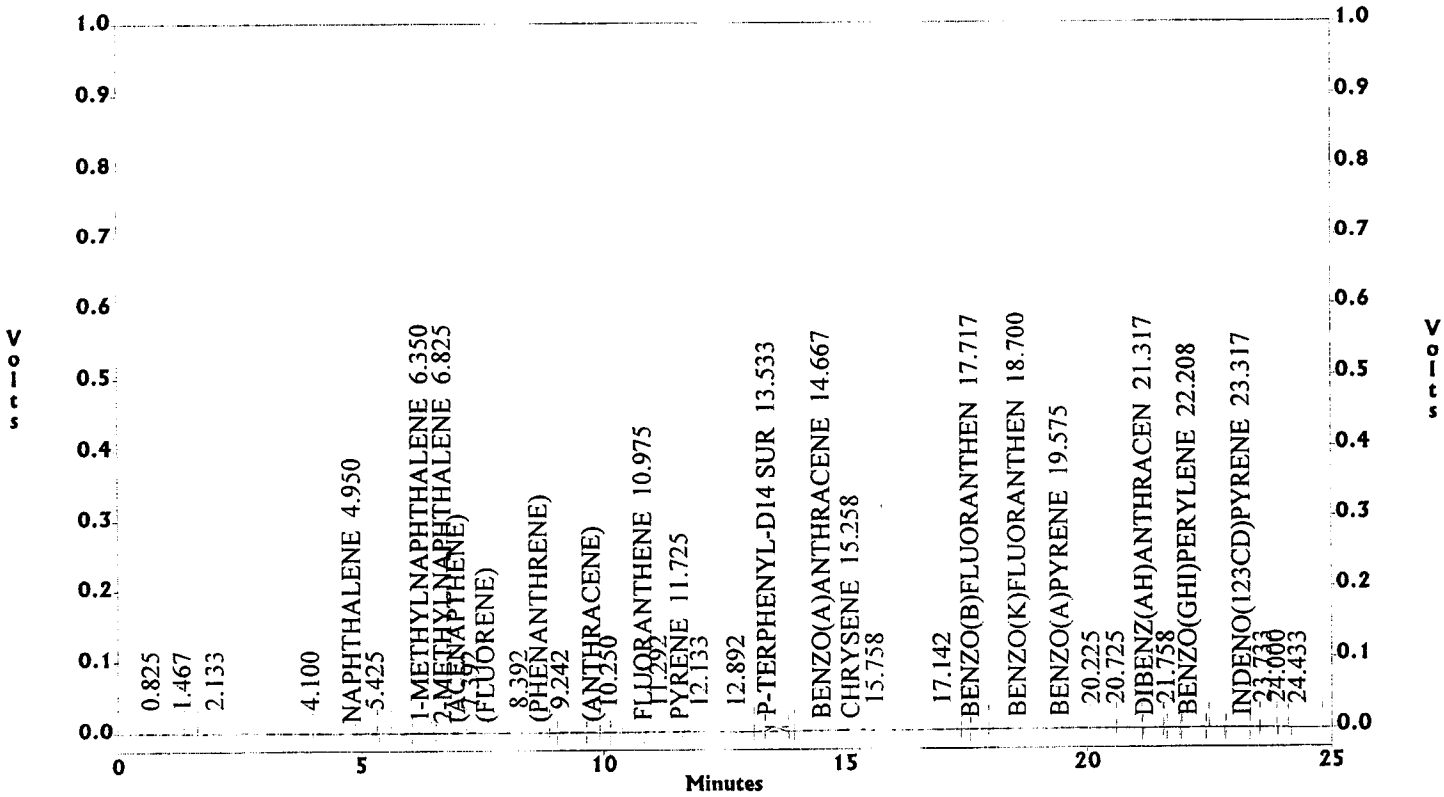
HPLC 1

File : c:\ezchromb\chrom\0104hp3.027
Method : c:\ezchromb\methods\lc1\l3ph1204.met
Sample ID : 183952
Acquired : Jan 04, 2001 20:32:56
Printed : Jan 05, 2001 07:40:41
User : System

c:\ezchromb\chrom\0104hp3.027 -- Channel A



c:\ezchromb\chrom\0104hp3.027 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\0104hp3.027
Method : c:\ezchromb\methods\lc1\l3ph1204.met
Sample ID : 183952
Acquired : Jan 04, 2001 20:32:56
Printed : Jan 05, 2001 07:40:41
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	5.02	0	0.00
ACENAPHTYLENE	5.70	0	0.00
1-METHYLNAPHT	6.40	0	0.00
2-METHYLNAPHT	6.80	0	0.00
ACENAPTHENE	7.08	0	0.00
FLUORENE	7.60	0	0.00
PHENANTHRENE	8.61	428	0.02
ANTHRACENE	9.70	0	0.00
FLUORANTHENE	11.02	0	0.00
PYRENE	11.80	0	0.00
P-TERPHENYL-D	13.41	2618	0.53
BENZO(A)ANTHR	14.50	0	0.00
CHRYSENE	15.12	260	0.02
BENZO(B)FLUOR	17.55	0	0.00
BENZO(K)FLOUR	18.59	0	0.00
BENZO(A)PYREN	19.51	0	0.00
DIBENZ(AH)ANT	21.10	0	0.00
BENZO(GHI)PER	22.08	0	0.00
INDENO(123CD)	22.90	0	0.00

Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	4.95	19829	0.09
1-METHYLNAPHT	6.35	15917	0.00
2-METHYLNAPHT	6.82	6824	0.00
ACENAPTHENE	7.10	0	0.00
FLUORENE	7.70	0	0.00
PHENANTHRENE	8.80	0	0.00
ANTHRACENE	9.90	0	0.00
FLUORANTHENE	10.98	17101	0.08
PYRENE	11.73	7971	0.00
P-TERPHENYL-D	13.53	106029	0.49
BENZO(A)ANTHR	14.67	36407	0.04
CHRYSENE	15.26	26785	0.02
BENZO(B)FLUOR	17.72	7799	0.00
BENZO(K)FLUOR	18.70	31521	0.00
BENZO(A)PYREN	19.58	15050	0.02
DIBENZ(AH)ANT	21.32	3299	0.00
BENZO(GHI)PER	22.21	7524	0.00
INDENO(123CD)	23.32	4356	0.04

TestAmerica
INCORPORATED

Sample Identification

029-SMW07-Q4-00-07

Matrix: Ground water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: 8310
Delivery Group: 220787
Instrument:
Vol Extracted: ml
Extract Vol: ml

Lab Sample ID: 00-A183953
Date Sampled:: 12/20/00
Date Received: 12/22/00
Analysis Date: 1/ 4/01
Analysis Time: 19:40
Sample QC Group: 5773

Extraction Date:

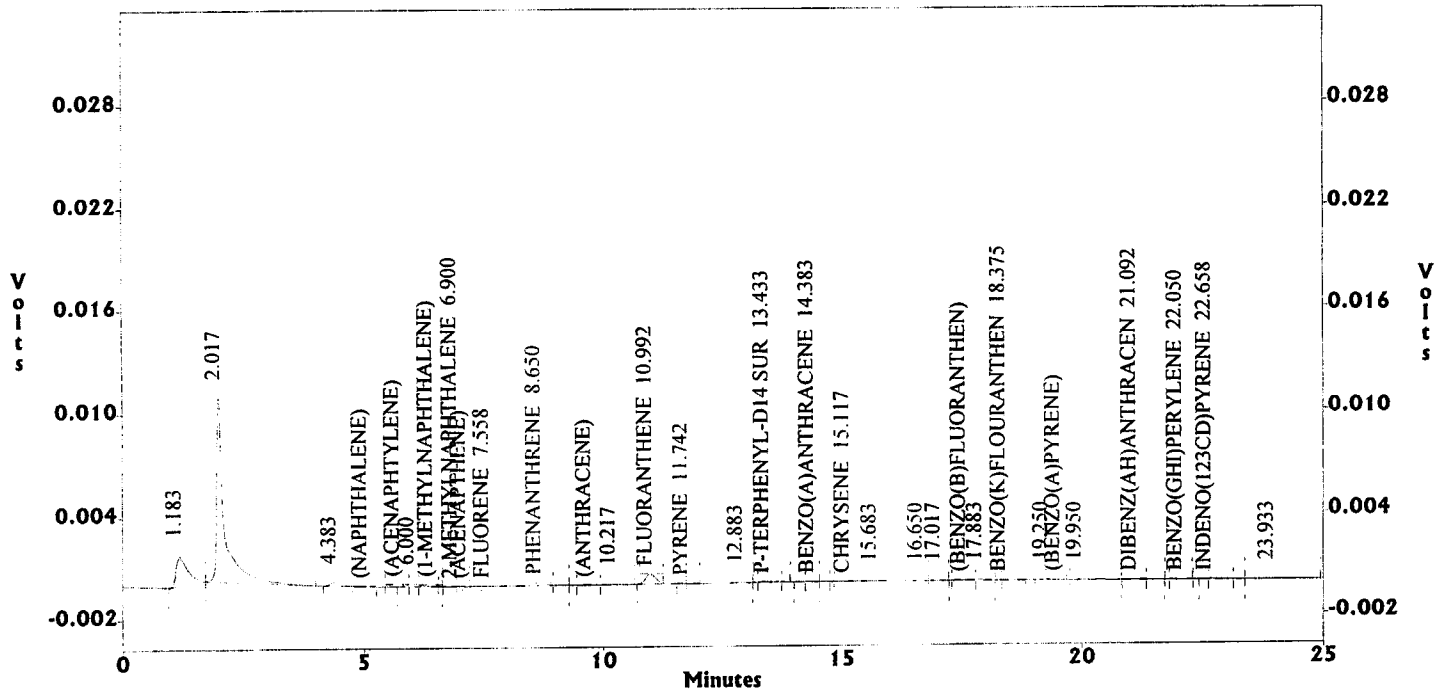
FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	11	U
83-32-9	Acenaphthene	11	U
120-12-7	Anthracene	7	U
206-44-0	Fluoranthene	2	U
7782-41-4	Fluorene	6	U
129-00-0	Pyrene	3	U
56-55-3	Benzo(a)anthracene	1	U
50-32-8	Benzo(a)pyrene	1	U
205-99-2	Benzo(b)fluoranthene	2	U
207-08-9	Benzo(k)fluoranthene	2	U
218-01-9	Chrysene	2	U
53-70-3	Dibenzo(a,h)anthracene	3	U
193-39-5	Indeno(1,2,3-cd)pyrene	5	U
208-96-8	Acenaphthylene	22	U
191-24-2	Benzo(g,h,i)perylene	8	U
85-01-8	Phenanthrene	7	U
90-12-0	1-Methylnapthalene	11	U
91-57-6	2-Methylnaphthalene	11	U

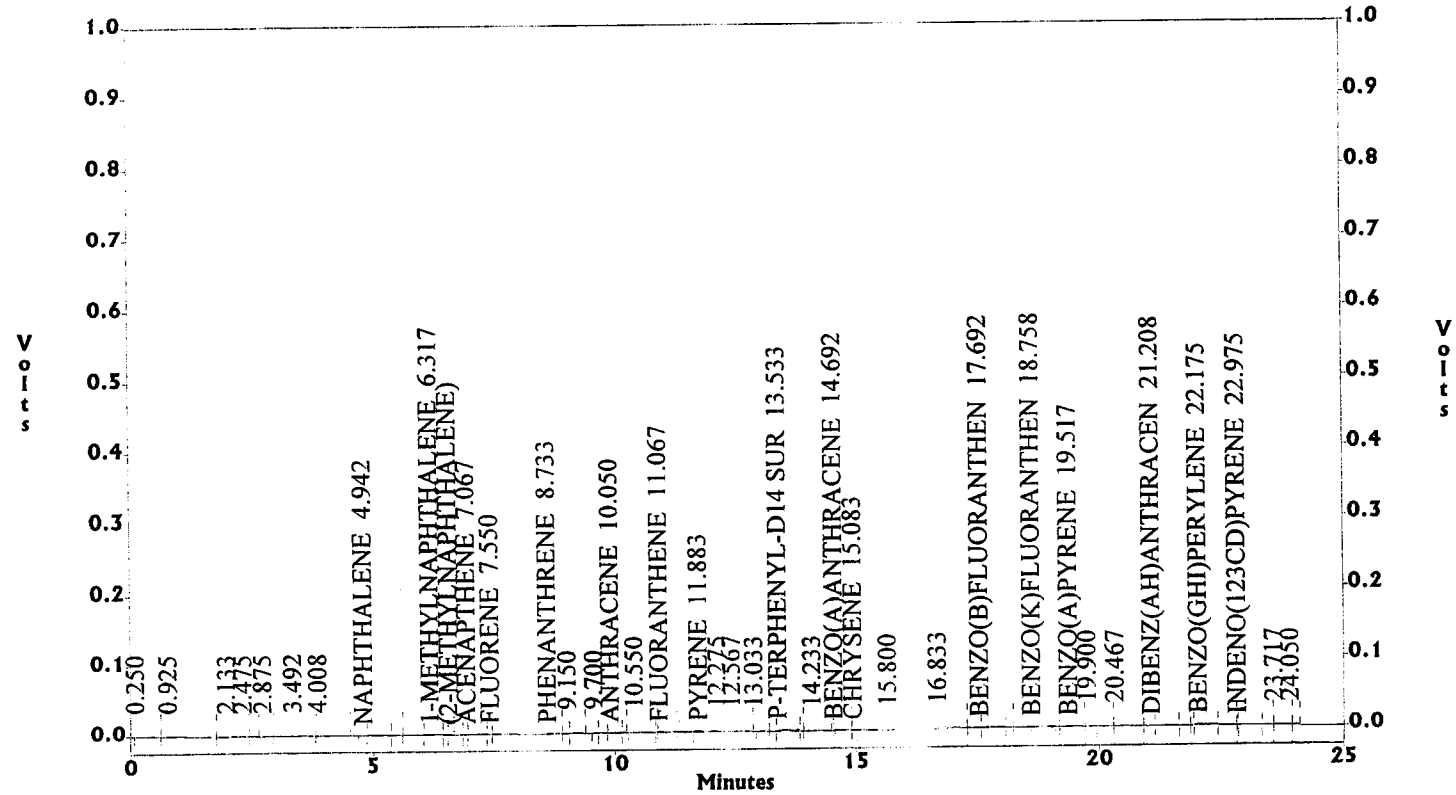
HPLC 1

File : c:\ezchromb\chrom\0104hp3.028
Method : c:\ezchromb\methods\lc1\l3ph1204.met
Sample ID : 183953
Acquired : Jan 04, 2001 20:59:09
Printed : Jan 05, 2001 07:40:44
User : System

c:\ezchromb\chrom\0104hp3.028 -- Channel A



c:\ezchromb\chrom\0104hp3.028 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\0104hp3.028
Method : c:\ezchromb\methods\lc1\l3ph1204.met
Sample ID : 183953
Acquired : Jan 04, 2001 20:59:09
Printed : Jan 05, 2001 07:40:44
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	5.02	0	0.00
ACENAPHTYLENE	5.70	0	0.00
1-METHYLNAPHT	6.40	0	0.00
2-METHYLNAPHT	6.90	180	0.11
ACENAPTHENE	7.08	0	0.00
FLUORENE	7.56	238	0.03
PHENANTHRENE	8.65	3086	0.12
ANTHRACENE	9.70	0	0.00
FLUORANTHENE	10.99	9694	1.66
PYRENE	11.74	34	0.01
P-TERPHENYL-D	13.43	913	0.19
BENZO(A)ANTHR	14.38	235	0.02
CHRYSENE	15.12	384	0.03
BENZO(B)FLUOR	17.55	0	0.00
BENZO(K)FLOUR	18.38	429	0.05
BENZO(A)PYREN	19.51	0	0.00
DIBENZ(AH)ANT	21.09	436	0.17
BENZO(GHI)PER	22.05	154	0.05
INDENO(123CD)	22.66	407	0.06

Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	4.94	19940	0.09
1-METHYLNAPHT	6.32	28096	0.02
2-METHYLNAPHT	6.70	0	0.00
ACENAPTHENE	7.07	20301	0.00
FLUORENE	7.55	9626	0.09
PHENANTHRENE	8.73	10371	0.00
ANTHRACENE	10.05	3889	0.00
FLUORANTHENE	11.07	8764	0.02
PYRENE	11.88	9943	0.00
P-TERPHENYL-D	13.53	42745	0.16
BENZO(A)ANTHR	14.69	10063	0.02
CHRYSENE	15.08	20747	0.02
BENZO(B)FLUOR	17.69	16040	0.00
BENZO(K)FLUOR	18.76	18218	0.00
BENZO(A)PYREN	19.52	6632	0.02
DIBENZ(AH)ANT	21.21	10696	0.00
BENZO(GHI)PER	22.17	30581	0.00
INDENO(123CD)	22.98	4520	0.04

TestAmerica
INCORPORATED

Sample Identification

029-SMW10-Q4-00-07

Matrix: Ground water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: 8310
Delivery Group: 220787
Instrument:
Vol Extracted: ml
Extract Vol: ml

Lab Sample ID: 00-A183954
Date Sampled:: 12/20/00
Date Received: 12/22/00
Analysis Date: 1/ 4/01
Analysis Time: 19:40
Sample QC Group: 5773

Extraction Date:

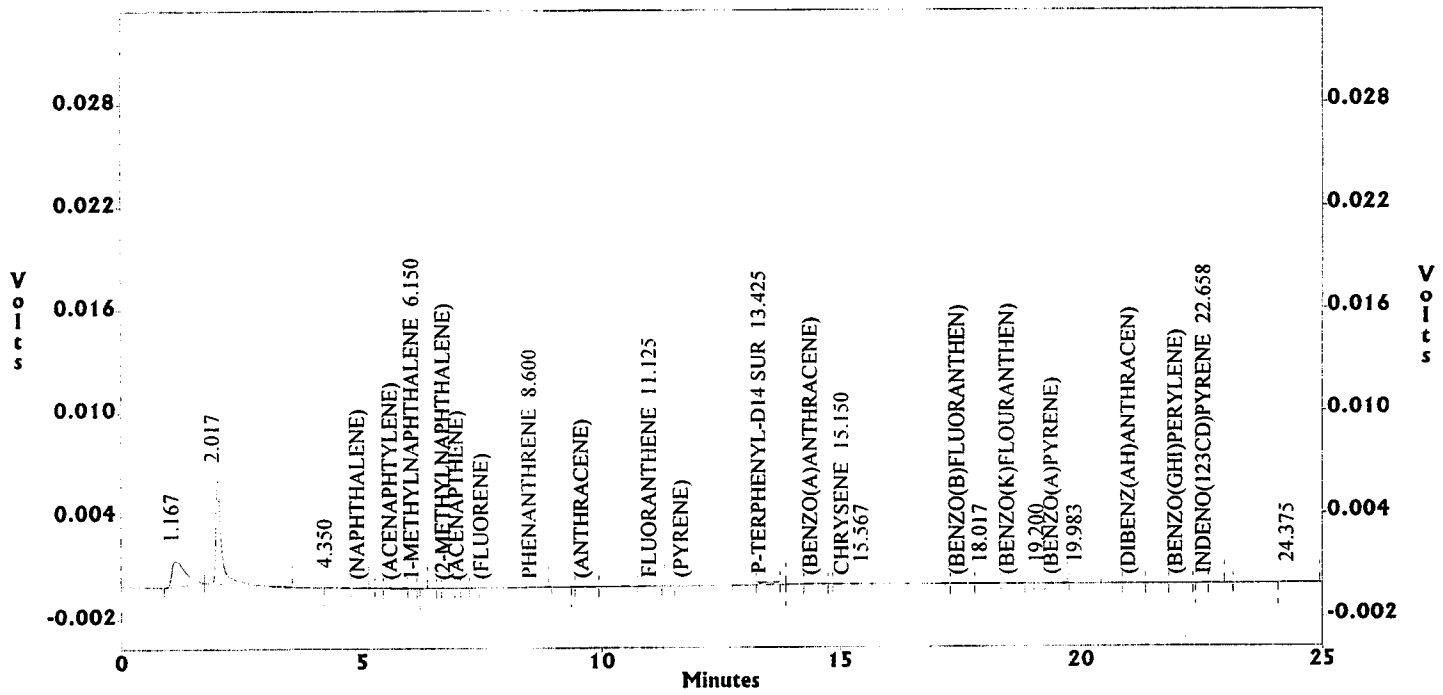
FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1	U
83-32-9	Acenaphthene	1	U
120-12-7	Anthracene	1	U
206-44-0	Fluoranthene	0	U
7782-41-4	Fluorene	1	U
129-00-0	Pyrene	0	U
56-55-3	Benzo(a)anthracene	0	U
50-32-8	Benzo(a)pyrene	0	U
205-99-2	Benzo(b)fluoranthene	0	U
207-08-9	Benzo(k)fluoranthene	0	U
218-01-9	Chrysene	0	U
53-70-3	Dibenzo(a,h)anthracene	0	U
193-39-5	Indeno(1,2,3-cd)pyrene	0	U
208-96-8	Acenaphthylene	2	U
191-24-2	Benzo(g,h,i)perylene	1	U
85-01-8	Phenanthrene	1	U
90-12-0	1-Methylnapthalene	1	U
91-57-6	2-Methylnaphthalene	1	U

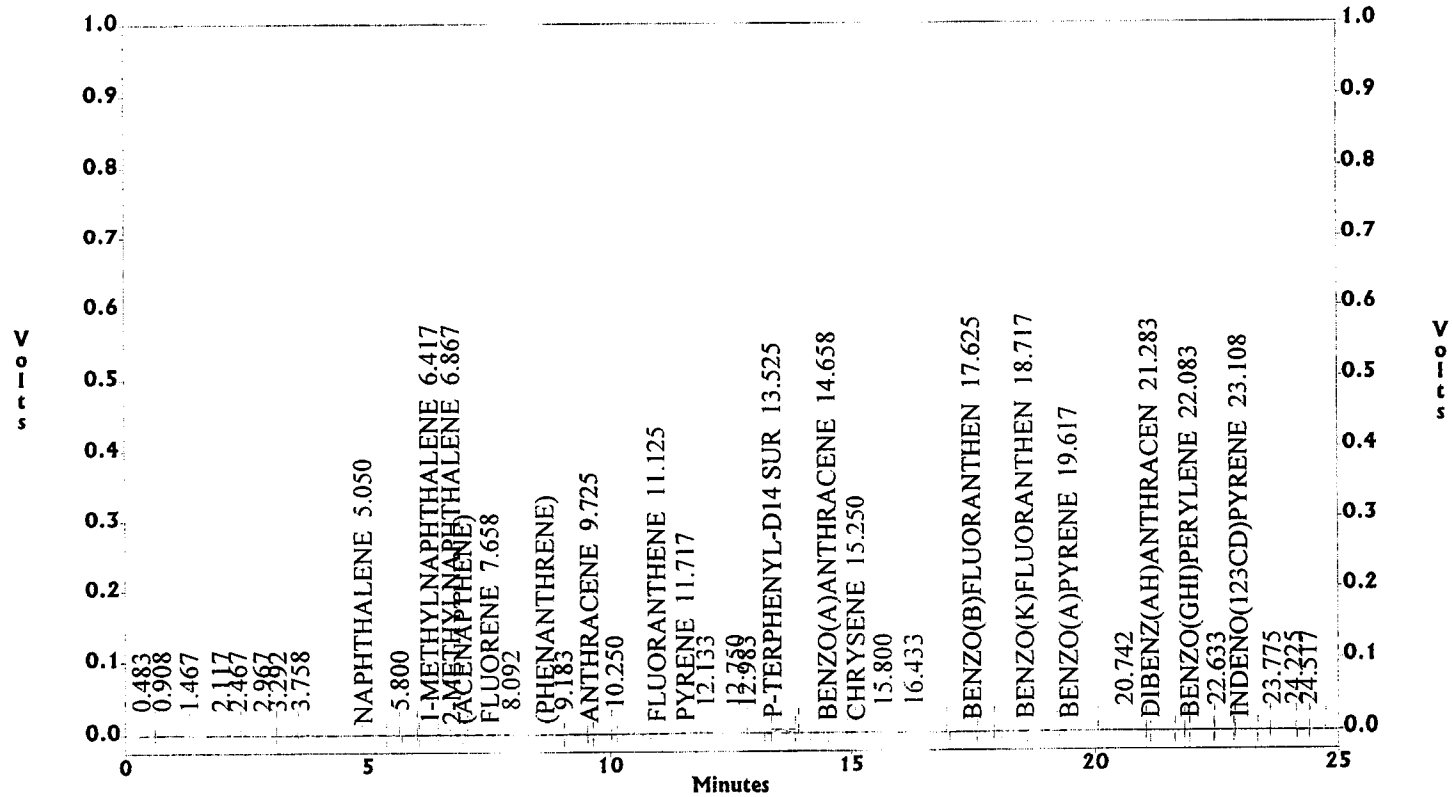
HPLC 1

File : c:\ezchromb\chrom\0104hp3.029
Method : c:\ezchromb\methods\lc1\l3ph1204.met
Sample ID : 183954
Acquired : Jan 04, 2001 21:25:25
Printed : Jan 05, 2001 07:40:48
User : System

c:\ezchromb\chrom\0104hp3.029 -- Channel A



c:\ezchromb\chrom\0104hp3.029 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\0104hp3.029
Method : c:\ezchromb\methods\lc1\l3ph1204.met
Sample ID : 183954
Acquired : Jan 04, 2001 21:25:25
Printed : Jan 05, 2001 07:40:48
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	5.02	0	0.00
ACENAPHTYLENE	5.70	0	0.00
1-METHYLNAPHT	6.15	19	0.02
2-METHYLNAPHT	6.80	0	0.00
ACENAPTHENE	7.08	0	0.00
FLUORENE	7.60	0	0.00
PHENANTHRENE	8.60	350	0.01
ANTHRACENE	9.70	0	0.00
FLUORANTHENE	11.13	463	0.08
PYRENE	11.80	0	0.00
P-TERPHENYL-D	13.43	2549	0.52
BENZO(A)ANTHR	14.50	0	0.00
CHRYSENE	15.15	1356	0.09
BENZO(B)FLUOR	17.55	0	0.00
BENZO(K)FLOUR	18.59	0	0.00
BENZO(A)PYREN	19.51	0	0.00
DIBENZ(AH)ANT	21.10	0	0.00
BENZO(GHI)PER	22.08	0	0.00
INDENO(123CD)	22.66	206	0.05

Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	5.05	21733	0.10
1-METHYLNAPHT	6.42	7170	0.00
2-METHYLNAPHT	6.87	6313	0.00
ACENAPTHENE	7.10	0	0.00
FLUORENE	7.66	16711	0.11
PHENANTHRENE	8.80	0	0.00
ANTHRACENE	9.73	11360	0.03
FLUORANTHENE	11.13	18177	0.08
PYRENE	11.72	21099	0.02
P-TERPHENYL-D	13.52	83181	0.37
BENZO(A)ANTHR	14.66	25735	0.03
CHRYSENE	15.25	19816	0.02
BENZO(B)FLUOR	17.63	15508	0.00
BENZO(K)FLUOR	18.72	25125	0.00
BENZO(A)PYREN	19.62	6561	0.02
DIBENZ(AH)ANT	21.28	6825	0.00
BENZO(GHI)PER	22.08	3366	0.00
INDENO(123CD)	23.11	6056	0.05

TestAmerica
INCORPORATED

Sample Identification

029-SMW11-Q4-00-07

Matrix: Ground water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: 8310
Delivery Group: 220787
Instrument:
Vol Extracted: ml
Extract Vol: ml

Lab Sample ID: 00-A183955
Date Sampled:: 12/20/00
Date Received: 12/22/00
Analysis Date: 1/ 4/01
Analysis Time: 19:40
Sample QC Group: 5773

Extraction Date:

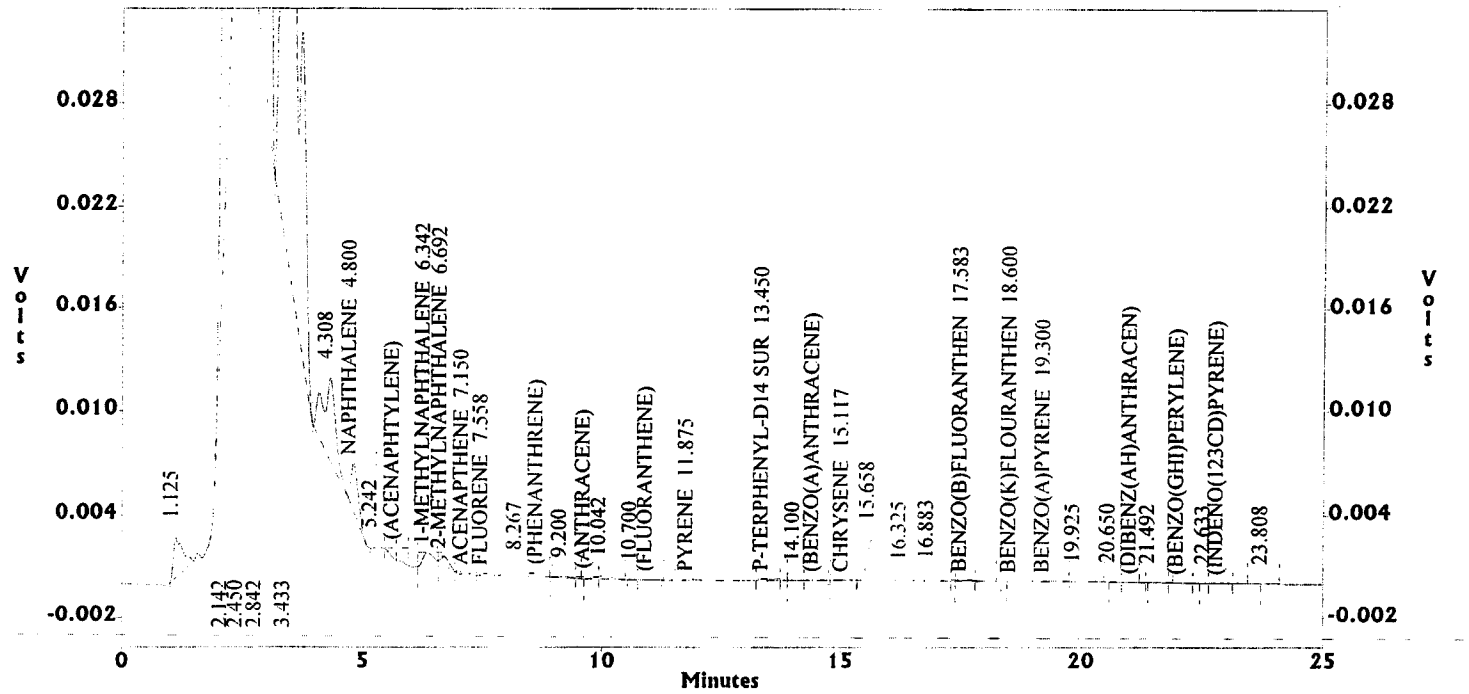
FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	11	
83-32-9	Acenaphthene	1	U
120-12-7	Anthracene	1	U
206-44-0	Fluoranthene	0	U
7782-41-4	Fluorene	1	U
129-00-0	Pyrene	0	U
56-55-3	Benzo(a)anthracene	0	U
50-32-8	Benzo(a)pyrene	0	U
205-99-2	Benzo(b)fluoranthene	0	U
207-08-9	Benzo(k)fluoranthene	0	U
218-01-9	Chrysene	0	U
53-70-3	Dibenzo(a,h)anthracene	0	U
193-39-5	Indeno(1,2,3-cd)pyrene	0	U
208-96-8	Acenaphthylene	2	U
191-24-2	Benzo(g,h,i)perylene	1	U
85-01-8	Phenanthrene	1	U
90-12-0	1-Methylnapthalene	6	
91-57-6	2-Methylnaphthalene	5	

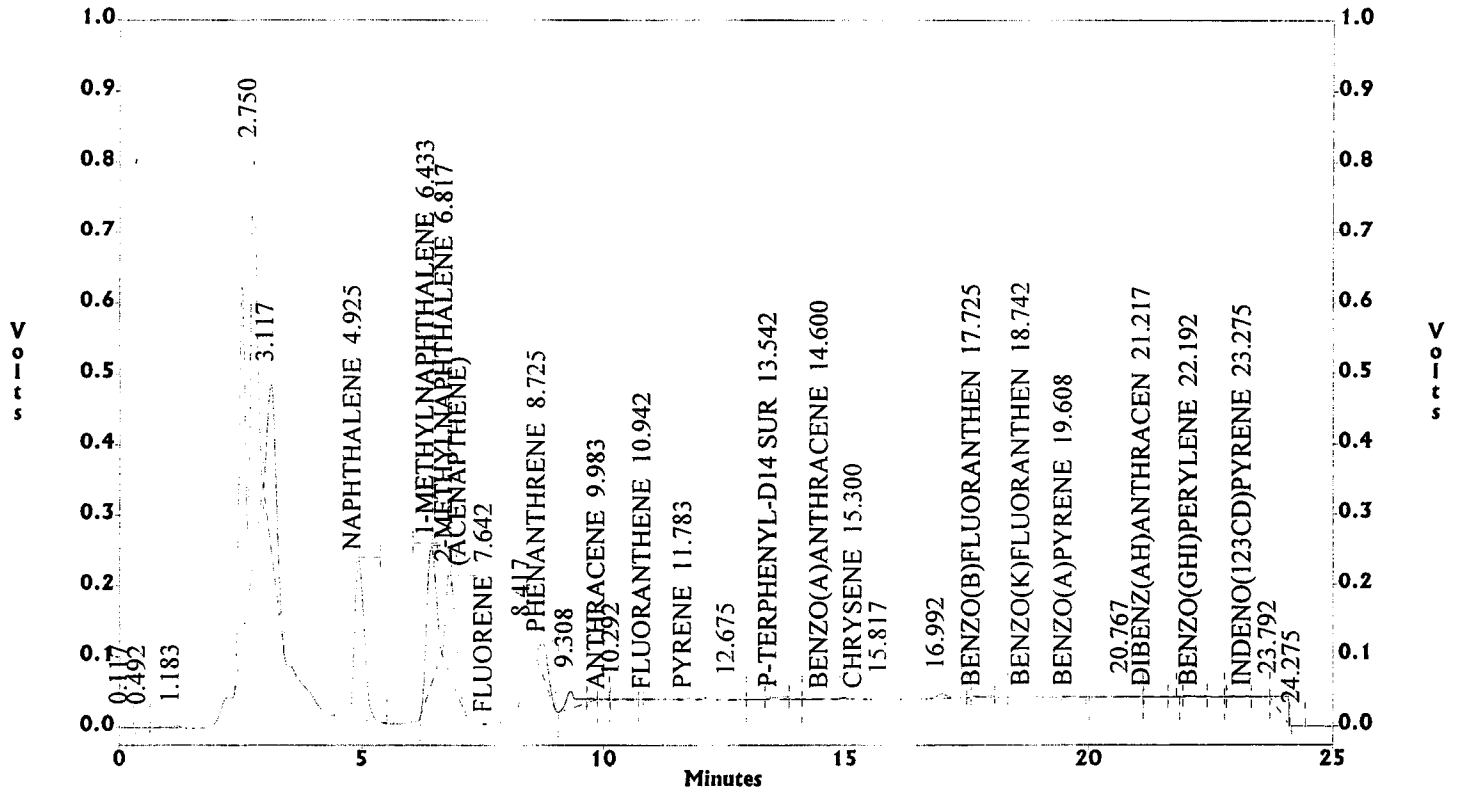
HPLC 1

File : c:\ezchromb\chrom\0104hp3.030
Method : c:\ezchromb\methods\lc1\13ph1204.met
Sample ID : 183955
Acquired : Jan 04, 2001 21:51:40
Printed : Jan 05, 2001 07:40:50
User : System

c:\ezchromb\chrom\0104hp3.030 -- Channel A



c:\ezchromb\chrom\0104hp3.030 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\0104hp3.030
Method : c:\ezchromb\methods\lc1\l3ph1204.met
Sample ID : 183955
Acquired : Jan 04, 2001 21:51:40
Printed : Jan 05, 2001 07:40:51
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	4.80	29578	15.21
ACENAPHTYLENE	5.70	0	0.00
1-METHYLNAPHT	6.34	8195	8.01
2-METHYLNAPHT	6.69	5649	3.48
ACENAPTHENE	7.15	1156	2.09
FLUORENE	7.56	1320	0.16
PHENANTHRENE	8.70	0	0.00
ANTHRACENE	9.70	0	0.00
FLUORANTHENE	11.02	0	0.00
PYRENE	11.88	1208	0.24
P-TERPHENYL-D	13.45	1841	0.37
BENZO(A)ANTHR	14.50	0	0.00
CHRYSENE	15.12	265	0.02
BENZO(B)FLUOR	17.58	1092	0.07
BENZO(K)FLOUR	18.60	184	0.03
BENZO(A)PYREN	19.30	216	0.05
DIBENZ(AH)ANT	21.10	0	0.00
BENZO(GHI)PER	22.08	0	0.00
INDENO(123CD)	22.90	0	0.00

Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	4.93	3177577	11.09
1-METHYLNAPHT	6.43	2542933	6.17
2-METHYLNAPHT	6.82	2017101	4.76
ACENAPTHENE	7.10	0	0.00
FLUORENE	7.64	13955	0.10
PHENANTHRENE	8.73	623006	3.07
ANTHRACENE	9.98	3098	0.00
FLUORANTHENE	10.94	9715	0.02
PYRENE	11.78	43326	0.07
P-TERPHENYL-D	13.54	67441	0.29
BENZO(A)ANTHR	14.60	11941	0.03
CHRYSENE	15.30	26780	0.02
BENZO(B)FLUOR	17.73	21693	0.00
BENZO(K)FLUOR	18.74	27547	0.00
BENZO(A)PYREN	19.61	16819	0.02
DIBENZ(AH)ANT	21.22	3519	0.00
BENZO(GHI)PER	22.19	17724	0.00
INDENO(123CD)	23.27	8401	0.07

TestAmerica
INCORPORATED

Sample Identification

029-DUP-Q4-00-07

Matrix: Ground water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: 8310
Delivery Group: 220787
Instrument:
Vol Extracted: ml
Extract Vol: ml

Lab Sample ID: 00-A183956
Date Sampled:: 12/20/00
Date Received: 12/22/00
Analysis Date: 1/ 4/01
Analysis Time: 19:40
Sample QC Group: 5773

Extraction Date:

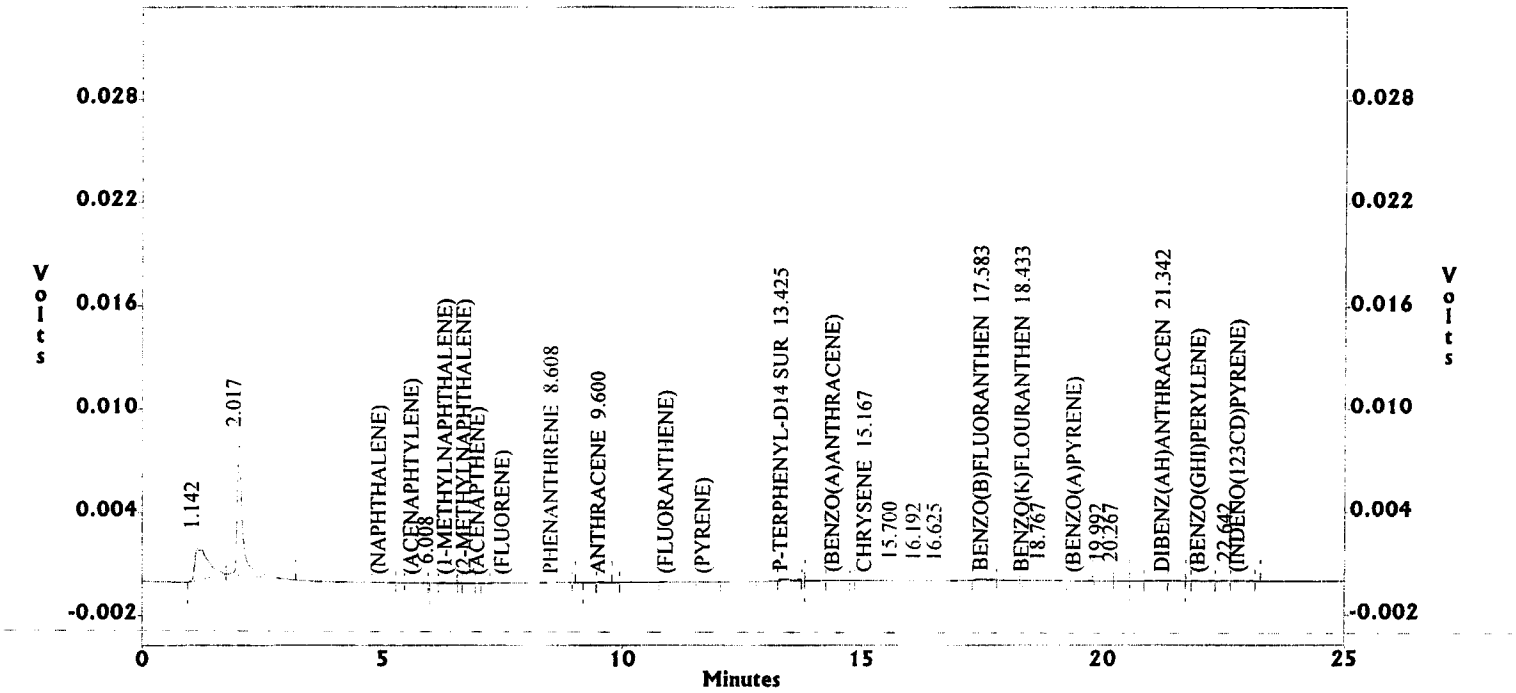
FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1	U
83-32-9	Acenaphthene	1	U
120-12-7	Anthracene	1	U
206-44-0	Fluoranthene	0	U
7782-41-4	Fluorene	1	U
129-00-0	Pyrene	0	U
56-55-3	Benzo(a)anthracene	0	U
50-32-8	Benzo(a)pyrene	0	U
205-99-2	Benzo(b)fluoranthene	0	U
207-08-9	Benzo(k)fluoranthene	0	U
218-01-9	Chrysene	0	U
53-70-3	Dibenzo(a,h)anthracene	0	U
193-39-5	Indeno(1,2,3-cd)pyrene	0	U
208-96-8	Acenaphthylene	2	U
191-24-2	Benzo(g,h,i)perylene	1	U
85-01-8	Phenanthrene	1	U
90-12-0	1-Methylnapthalene	1	U
91-57-6	2-Methylnaphthalene	1	U

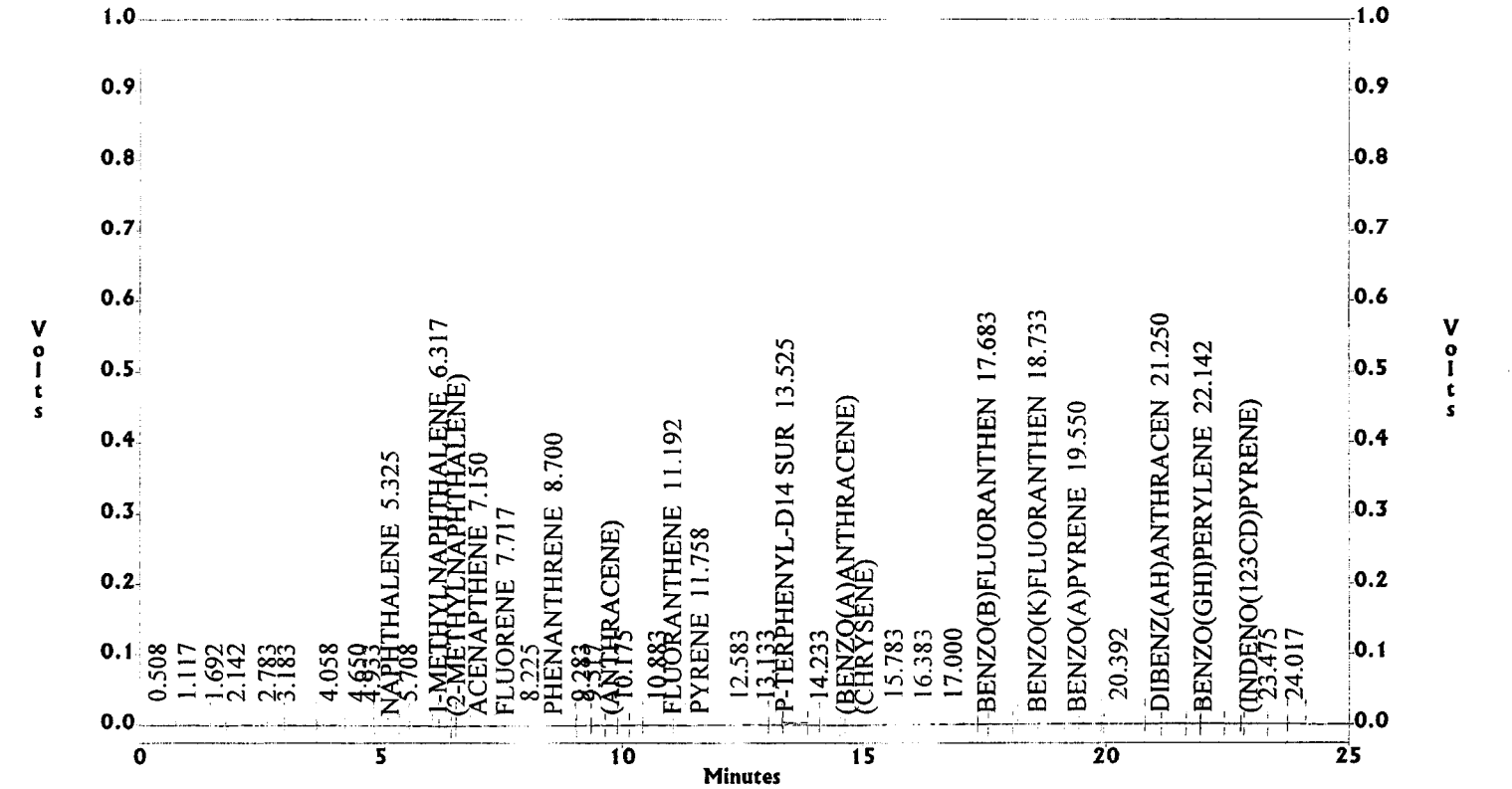
HPLC 1

File : c:\ezchromb\chrom\0104hp3.032
Method : c:\ezchromb\methods\lc1\l3ph1204.met
Sample ID : 183956
Acquired : Jan 04, 2001 22:44:09
Printed : Jan 05, 2001 07:40:56
User : System

c:\ezchromb\chrom\0104hp3.032 -- Channel A



c:\ezchromb\chrom\0104hp3.032 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\0104hp3.032
Method : c:\ezchromb\methods\lc1\l3ph1204.met
Sample ID : 183956
Acquired : Jan 04, 2001 22:44:09
Printed : Jan 05, 2001 07:40:56
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	5.02	0	0.00
ACENAPHTYLENE	5.70	0	0.00
1-METHYLNAPHT	6.40	0	0.00
2-METHYLNAPHT	6.80	0	0.00
ACENAPTHENE	7.08	0	0.00
FLUORENE	7.60	0	0.00
PHENANTHRENE	8.61	516	0.02
ANTHRACENE	9.60	197	0.00
FLUORANTHENE	11.02	0	0.00
PYRENE	11.80	0	0.00
P-TERPHENYL-D	13.43	1923	0.39
BENZO(A)ANTHR	14.50	0	0.00
CHRYSENE	15.17	1010	0.07
BENZO(B)FLUOR	17.58	2642	0.18
BENZO(K)FLOUR	18.43	91	0.03
BENZO(A)PYREN	19.51	0	0.00
DIBENZ(AH)ANT	21.34	846	0.33
BENZO(GHI)PER	22.08	0	0.00
INDENO(123CD)	22.90	0	0.00

Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	5.32	4002	0.03
1-METHYLNAPHT	6.32	3328	0.00
2-METHYLNAPHT	6.70	0	0.00
ACENAPTHENE	7.15	17748	0.00
FLUORENE	7.72	4632	0.07
PHENANTHRENE	8.70	5847	0.00
ANTHRACENE	9.90	0	0.00
FLUORANTHENE	11.19	4912	0.00
PYRENE	11.76	28646	0.04
P-TERPHENYL-D	13.52	60335	0.26
BENZO(A)ANTHR	14.78	0	0.00
CHRYSENE	15.17	0	0.00
BENZO(B)FLUOR	17.68	7732	0.00
BENZO(K)FLUOR	18.73	17431	0.00
BENZO(A)PYREN	19.55	8762	0.02
DIBENZ(AH)ANT	21.25	11664	0.00
BENZO(GHI)PER	22.14	10193	0.00
INDENO(123CD)	23.09	0	0.00

TestAmerica
INCORPORATED

Sample Identification

029-EQB-Q4-00-07

Matrix: Ground water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: 8310
Delivery Group: 220787
Instrument:
Vol Extracted: ml
Extract Vol: ml

Lab Sample ID: 00-A183957
Date Sampled:: 12/20/00
Date Received: 12/22/00
Analysis Date: 1/ 4/01
Analysis Time: 19:40
Sample QC Group: 5773

Extraction Date:

FORM I

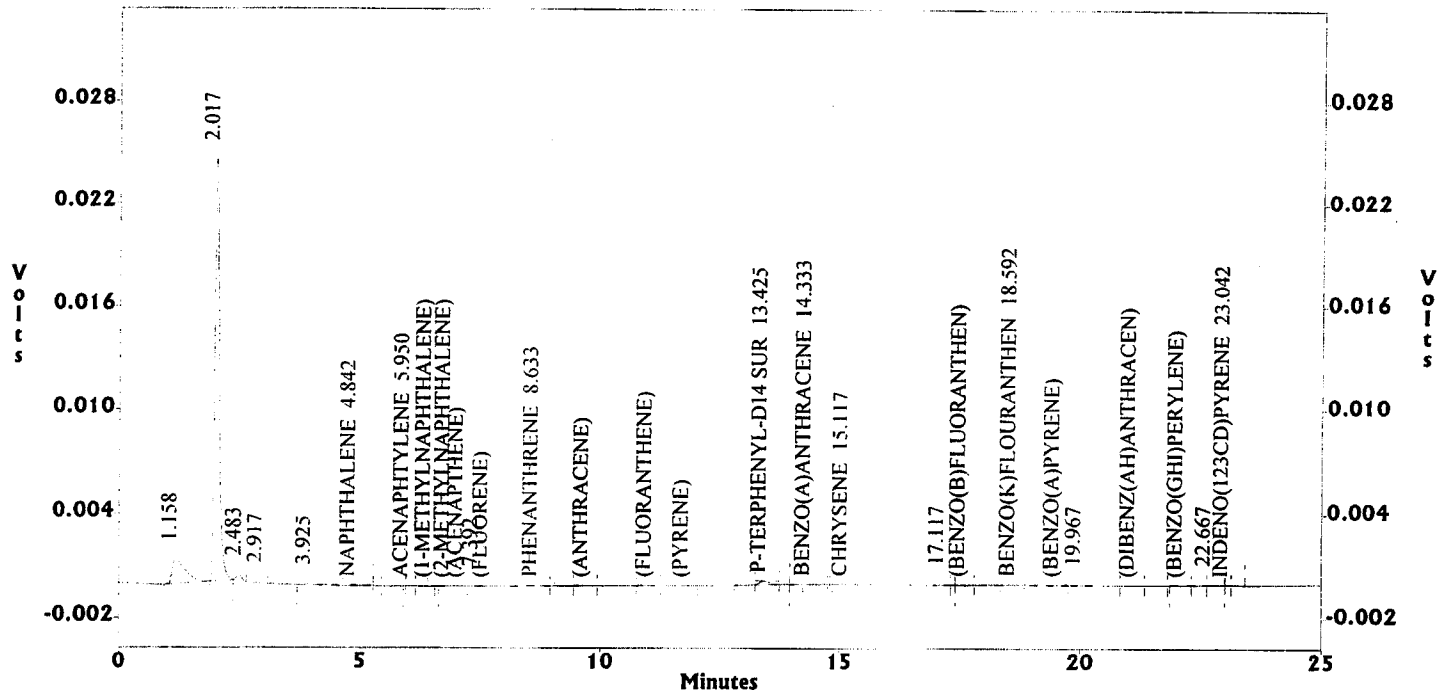
CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1	U
83-32-9	Acenaphthene	1	U
120-12-7	Anthracene	1	U
206-44-0	Fluoranthene	0	U
7782-41-4	Fluorene	1	U
129-00-0	Pyrene	0	U
56-55-3	Benzo(a)anthracene	0	U
50-32-8	Benzo(a)pyrene	0	U
205-99-2	Benzo(b)fluoranthene	0	U
207-08-9	Benzo(k)fluoranthene	0	U
218-01-9	Chrysene	0	U
53-70-3	Dibenzo(a,h)anthracene	0	U
193-39-5	Indeno(1,2,3-cd)pyrene	0	U
208-96-8	Acenaphthylene	2	U
191-24-2	Benzo(g,h,i)perylene	1	U
85-01-8	Phenanthrene	1	U
90-12-0	1-Methylnapthalene	1	U
91-57-6	2-Methylnaphthalene	1	U

2960 Foster Creighton Drive / Nashville,TN 37204 / 615-726-0177 / Fax: 615-726-0954 / 800-765-0980

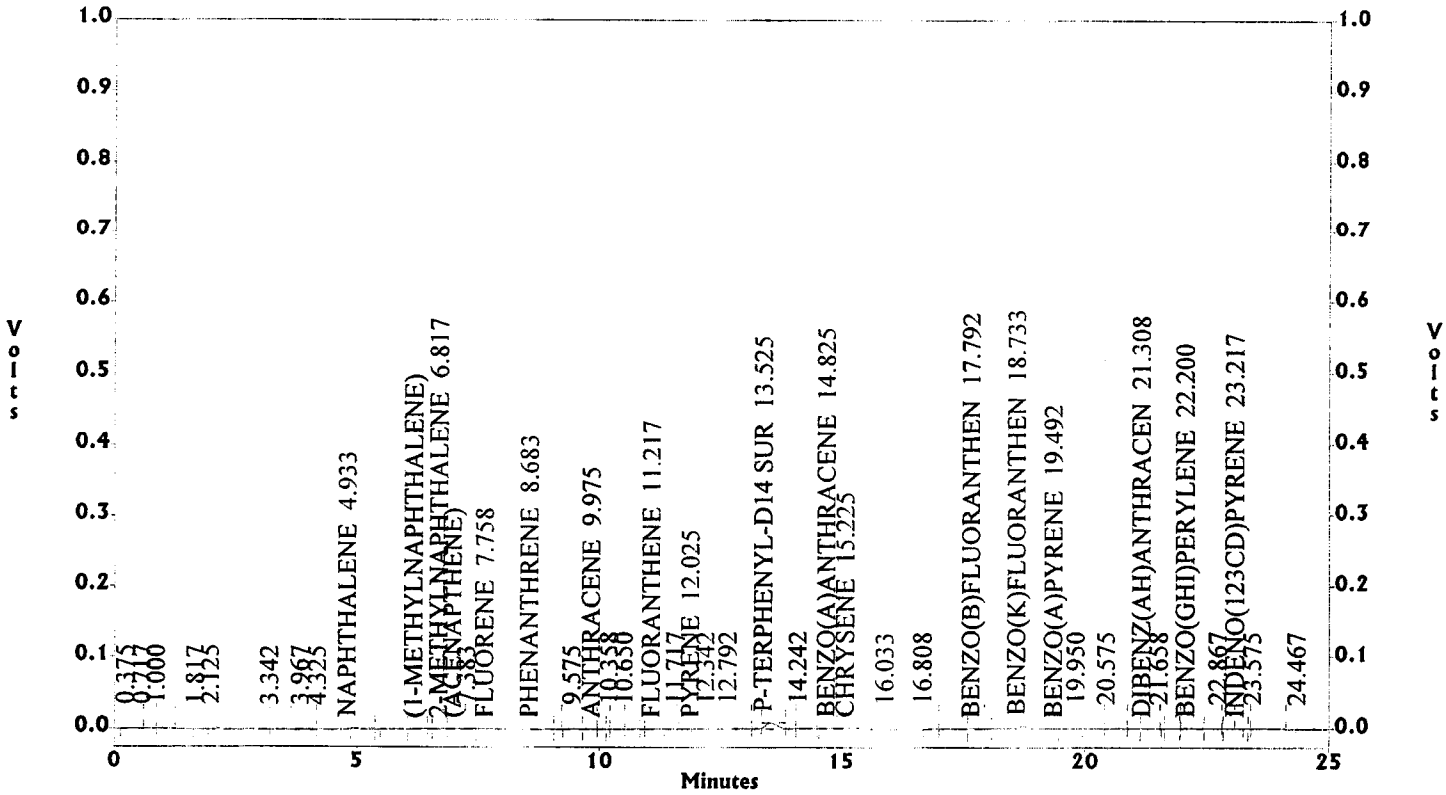
HPLC 1

File : c:\ezchromb\chrom\0104hp3.033
Method : c:\ezchromb\methods\lc1\13ph1204.met
Sample ID : 183957
Acquired : Jan 04, 2001 23:10:23
Printed : Jan 05, 2001 07:40:59
User : System

c:\ezchromb\chrom\0104hp3.033 -- Channel A



c:\ezchromb\chrom\0104hp3.033 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\0104hp3.033
Method : c:\ezchromb\methods\lc1\13ph1204.met
Sample ID : 183957
Acquired : Jan 04, 2001 23:10:23
Printed : Jan 05, 2001 07:41:00
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	4.84	299	0.15
ACENAPHTYLENE	5.95	106	0.08
1-METHYLNAPHT	6.40	0	0.00
2-METHYLNAPHT	6.80	0	0.00
ACENAPTHENE	7.08	0	0.00
FLUORENE	7.60	0	0.00
PHENANTHRENE	8.63	387	0.02
ANTHRACENE	9.70	0	0.00
FLUORANTHENE	11.02	0	0.00
PYRENE	11.80	0	0.00
P-TERPHENYL-D	13.43	3704	0.75
BENZO(A)ANTHR	14.33	392	0.03
CHRYSENE	15.12	1012	0.07
BENZO(B)FLUOR	17.55	0	0.00
BENZO(K)FLOUR	18.59	2895	0.25
BENZO(A)PYREN	19.51	0	0.00
DIBENZ(AH)ANT	21.10	0	0.00
BENZO(GHI)PER	22.08	0	0.00
INDENO(123CD)	23.04	31	0.04

Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	4.93	32432	0.13
1-METHYLNAPHT	6.30	0	0.00
2-METHYLNAPHT	6.82	47895	0.00
ACENAPTHENE	7.10	0	0.00
FLUORENE	7.76	6851	0.08
PHENANTHRENE	8.68	19858	0.01
ANTHRACENE	9.98	2803	0.00
FLUORANTHENE	11.22	11835	0.04
PYRENE	12.02	2981	0.00
P-TERPHENYL-D	13.52	132711	0.63
BENZO(A)ANTHR	14.82	13282	0.03
CHRYSENE	15.23	25343	0.02
BENZO(B)FLUOR	17.79	17103	0.00
BENZO(K)FLUOR	18.73	58425	0.00
BENZO(A)PYREN	19.49	5241	0.02
DIBENZ(AH)ANT	21.31	7507	0.00
BENZO(GHI)PER	22.20	7777	0.00
INDENO(123CD)	23.22	357	0.01

6C

8310 PAH INITIAL CALIBRATION

Lab Name : Test America **Insturment ID:** HPLC 3

SDG # 220787 **Calibration Date :** 12/04/00

UV CHANNEL

.05 initial cal	RF=1	1204hp3.001	.5 1,2m-naph	RF=4	1227hp3.002
.1 initial cal	RF=2	1204hp3.002	1.0 1,2m-naph	RF=5	1227hp3.003
.25 initial cal	RF=3	1204hp3.003	2.5 1,2m-naph	RF=6	1227hp3.004
.5 initial cal	RF=4	1204hp3.004	5.0 1,2m-naph	RF=7	1227hp3.005
1.0 initial cal	RF=5	1204hp3.005	10.0 1,2m-naph	RF=8	1227hp3.006
2.5 initial cal	RF=6	1204hp3.006	20.0 1,2m-naph	RF=9	1227hp3.007
5.0 initial cal	RF=7	1204hp3.007			
10.0 initial cal	RF=8	1204hp3.008			
20 initial cal	RF=9	1204hp3.009			

COMPOUND	RF 1 0.05	RF 2 0.1	RF 3 0.25	RF 4 0.5	RF 5 1	RF 6 2.5	RF 7 5	RF 8 10	RF 9 20	RF % RSD	Average RF
Napthalene		2400	1756	1848	1790	1906	1762	1759	1844	11.5	1883
Acenapthylene		1320	1392	1334	1302	1386	1284	1270	1336	9.1	1328
1-Methyl-naphthalene				1106	996	942	1099	1017	976	6.5	1023
2-Methyl-naphthalene				1700	1618	1497	1747	1617	1557	5.6	1623
Acenapthene		440	416	714	526	547	508	506	531	21.6	524
Flourene		7990	7488	7974	7528	8112	7499	7490	7906	11.2	7748
Phenanthrene	29000	25650	24700	25128	24767	26660	24639	24609	25936	5.6	25677
Anthracene	69220	58340	57744	59542	59411	64220	59164	58575		6.5	60777
Flouranthene	6540	5340	5832	5626	5673	6167	5695	5708	6038	6.0	5847
Pyrene	6680	5880	4904	4712	4633	4981	4598	4611	4879	13.9	5098
Benzo(a)anthracene	13740	11990	11748	12072	12004	13010	12090	12138	12862	6.3	12406
Chrysene	16980	13710	13476	13854	13743	14697	13597	13626	14402	9.2	14232
Benzo(b)flouranthen	19340	14540	13296	13644	13639	14682				15.2	14857
Benzo(k)flouranthen	17700	12990	11292	11878	11858	12796				17.9	13086
Benzo(a)pyrene	14100	11700	11148	11840	12134	13114				8.7	12339
Dibenz(ah)anthrace	2080	2670	1952	3270	2673	2586				18.7	2539
Benzo(ghi)Perylene	5000	5150	4824	4962	5015	5249				3.0	5033
Indeno(123cd)pyren	18180	14230	14064	14548	14584	16174				10.5	15297

AVERAGE RF	11184
AVERAGE RF % RSD	10.4

6C

8310 PAH INITIAL CALIBRATION

Lab Name : Test America **Insturment ID:** HPLC 3

SDG # 220787 **Calibration Date** 12/04/00

FLOURECENSE CHANNEL

.05 initial cal	RF=1	1204hp3.001	.5 1,2m-naph	RF=4	1227hp3.002
.1 initial cal	RF=2	1204hp3.002	1.0 1,2m-naph	RF=5	1227hp3.003
.25 initial cal	RF=3	1204hp3.003	2.5 1,2m-naph	RF=6	1227hp3.004
.5 initial cal	RF=4	1204hp3.004	5.0 1,2m-naph	RF=7	1227hp3.005
1.0 initial cal	RF=5	1204hp3.005	10.0 1,2m-naph	RF=8	1227hp3.006
2.5 initial cal	RF=6	1204hp3.006	20.0 1,2m-naph	RF=9	1227hp3.007
5.0 initial cal	RF=7	1204hp3.007			
10.0 initial cal	RF=8	1204hp3.008			
20 initial cal	RF=9	1204hp3.009			

COMPOUND	RF 1 0.05	RF 2 0.1	RF 3 0.25	RF 4 0.5	RF 5 1	RF 6 2.5	RF 7 5	RF 8 10	RF 9 20	RF % RSD	Average RF
Napthalene		246640	295500	304796	269027	296088	273446	275399	289994	6.7	281361
1-Methyl-naphthalene				440252	424251	393663	455372	419699	404731	5.3	422995
2-Methyl-naphthalene				447678	428576	397444	459263	427611	411922	5.3	428749
Acenapthene		782290	796324	835070	827524	903621	837321			4.6	830358
Flourene		311390	305248	313726	312761	337461	312906	311653	329018	3.4	316770
Phenanthrene	351680	327190	264580	237040	207898	218697	198175	198447		23.7	250463
Anthracene	153120	121090	156160	158684	133658	143609	135378	133251		9.4	141869
Flouranthene	123420	153620	133624	164954	144637	150128	141670	139034		8.8	143886
Pyrene	713200	439360	494284	554546	536981	583564	542959			15.4	552128
Benzo(a)anthrac	2007000	1531810	1528336	2E+06	2E+06	1716440				11.2	1655306
Chrysene	3354000	2603320	2327560	2E+06	2E+06	2570864				14.7	2604772
Benzo(b)flourant	1062940	931740	933764	1E+06	965971	1040020	960290	961708		4.9	982325
Benzo(k)flouranth	7334300	6215850	6256048	6E+06	6E+06	5902146				7.5	6443572
Benzo(a)pyrene	2803780	2275920	2317712	2E+06	2E+06	2597777				8.0	2469786
Dibenz(ah)anthra	961300	770490	852488	794548	801235	861730	800964			7.4	834679
Benzo(ghi)Peryle	1123220	991980	965184	1E+06	1E+06	1076459	998031	998195		5.1	1021461
Indeno(123cd)pyr	157600	111860	156396	164500	148429	141044				11.3	146638

AVERAGE RF	1148654
AVERAGE RF % RSD	9.0

8310 PAH CALCULATION SHEET

Lab Name : Test America **Insturment ID:** HPLC 3

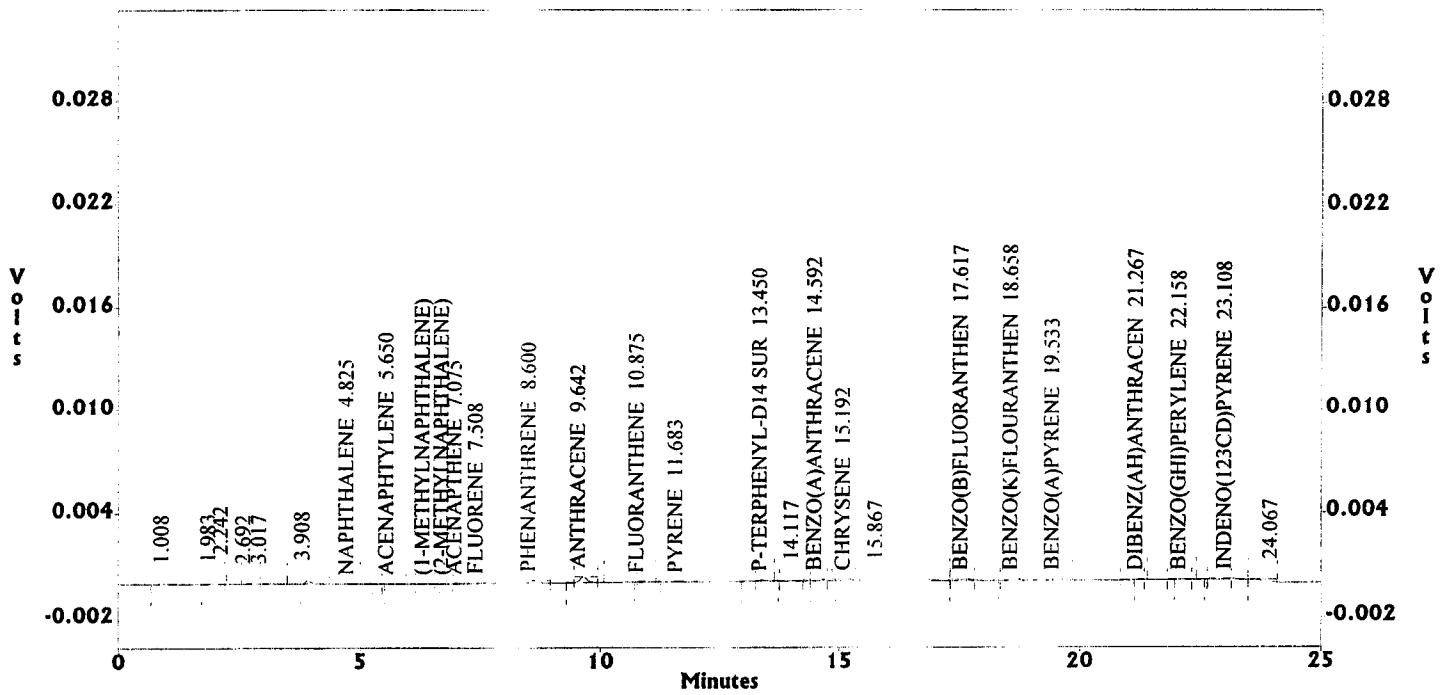
SDG # 220787 **Calibration Date :** 12/04/00

		UV CHANNEL	
Napthalene	Linear Fit :	Amount = 0.000524231 X Area - 0.153250	0.998
Acenapthylene	Linear Fit :	Amount = 0.000767821 X Area - 0.13684	0.998
1-Methyl-naphthalene	Linear Fit :	Amount = 0.000858905 X Area - 0.0266422	0.998
2-Methyl-naphthalene	Linear Fit :	Amount = 0.000624963 X Area - 0.00261427	0.998
Acenapthene	Linear Fit :	Amount = 0.00155944 X Area - 0.114265	0.998
Flourene	Linear Fit :	Amount = 0.000123694 X Area - 0.0933907	0.998
Phenanthrene	Linear Fit :	Amount = 3.95486e-005 X Area - 0.110489	0.998
Anthracene	Linear Fit :	Amount = 1.70264e-005 X Area - 0.113166	0.998
Flouranthene	Linear Fit :	Amount = 0.000168515 X Area - 0.0993025	0.998
Pyrene	Linear Fit :	Amount = 0.000209438 X Area - 0.112482	0.998
P-Terphenyl-d14 (Surr)	Linear Fit :	Amount = 0.000181481 X Area - 0.00955066	0.998
Benzo(a)anthracene	Linear Fit :	Amount = 7.04928e-005 X Area + 0.0134226	0.998
Chrysene	Linear Fit :	Amount = 5.16555e-005 X Area + 0.00992993	0.998
Benzo(b)flouranthene	Linear Fit :	Amount = 6.13782e-005 X Area + .0189121	0.998
Benzo(k)flouranthene	Linear Fit :	Amount = 7.13164e-005 X Area + 0.0190715	0.998
Benzo(a)pyrene	Linear Fit :	Amount = 7.02936e-005 X Area +.0621985	0.998
Dibenz(ah)anthracene	Linear Fit :	Amount = 0.000365789 X Area + 0.0552831	0.998
Benzo(ghi)Perylene	Linear Fit :	Amount = 0.000171476 X Area + 0.0270747	0.998
Indeno(123cd)pyrene	Linear Fit :	Amount = 5.69335e-005 X Area + 0.0216094	0.998
		FLOURESENSE CHANNEL	
Napthalene	Linear Fit :	Amount = 3.48239e-006 X Area + 0.0234356	0.998
1-Methyl-naphthalene	Linear Fit :	Amount = 2.44753e-006 X Area - 0.0529005	0.998
2-Methyl-naphthalene	Linear Fit :	Amount = 2.41673e-006 X Area - 0.114008	0.998
Acenapthene	Linear Fit :	Amount = 1.194e-007 X Area - 0.02234	0.998
Flourene	Linear Fit :	Amount = 3.06204e-006 X Area + 0.0564941	0.998
Phenanthrene	Linear Fit :	Amount = 5.07568e-006 X Area - 0.091102	0.998
Anthracene	Linear Fit :	Amount = 7.50675E-006 X Area - 0.0524428	0.998
Flouranthene	Linear Fit :	Amount = 7.18226e-006X Area - 0.0466993	0.998
Pyrene	Linear Fit :	Amount = 1.82186e-006 X Area - 0.0137142	0.998
Benzo(a)anthracene	Linear Fit :	Amount = 5.84321e-007 X Area + 0.0183546	0.998
Chrysene	Linear Fit :	Amount = 3.90965e-007 X Area + 0.0115626	0.998
Benzo(b)flouranthene	Linear Fit :	Amount = 1.03971e-007 X Area -0.0261989	0.998
Benzo(k)flouranthene	Linear Fit :	Amount = 1.68837e-007 X Area - 0.0244812	0.998
Benzo(a)pyrene	Linear Fit :	Amount = 3.85577e-007 X Area + 0.0184005	0.998
Dibenz(ah)anthracene	Linear Fit :	Amount = 1.25397e-007 X Area - 0.0305031	0.998
Benzo(ghi)Perylene	Linear Fit :	Amount = 1.00154e-006 X Area - 0.0256369	0.998
Indeno(123cd)pyrene	Linear Fit :	Amount = 6.59776e-006 X Area + 0.0108279	0.998

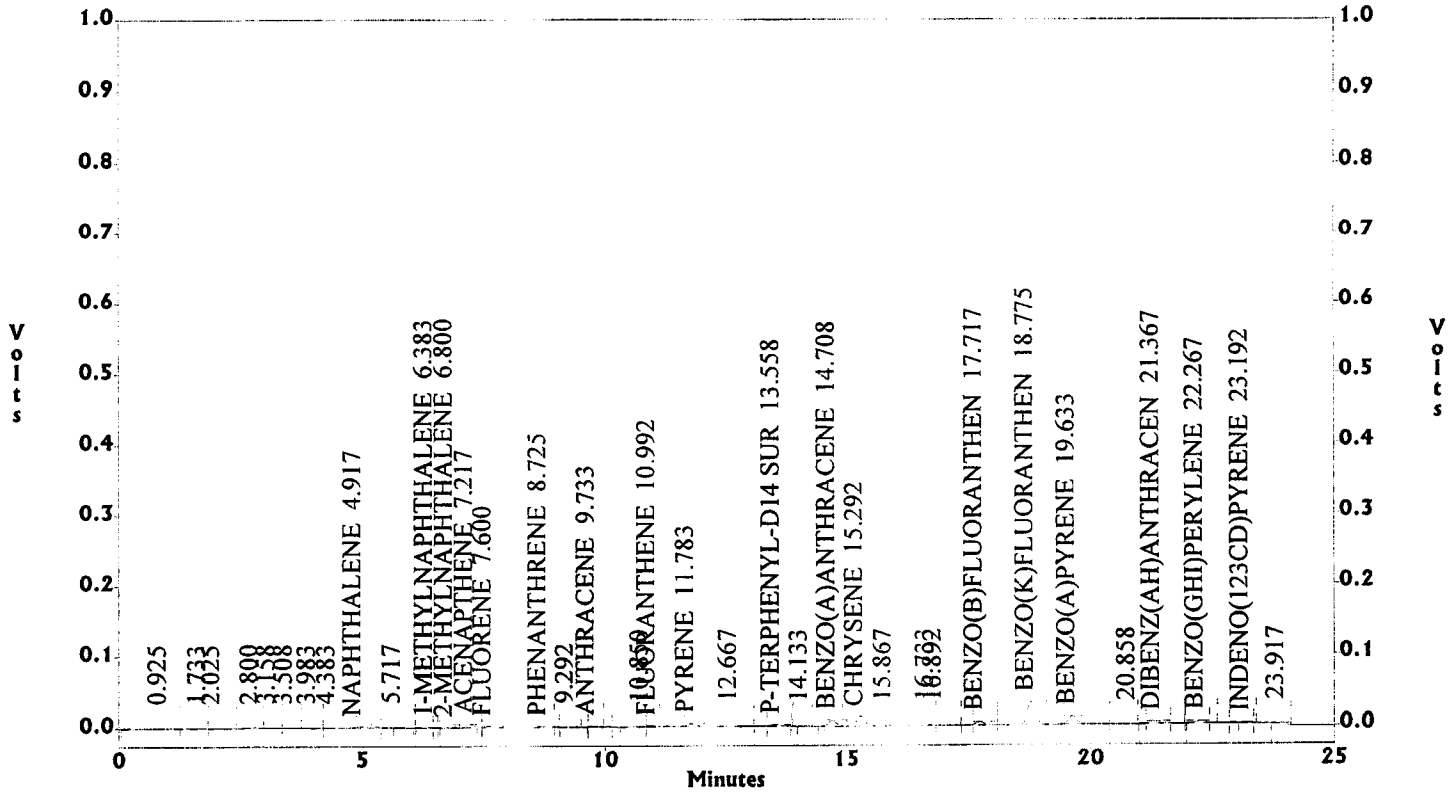
HPLC 1

File : c:\ezchromb\chrom\1204hp3.001
Method : c:\ezchromb\methods\lc1\13ph1204.met
Sample ID : .05 initial cal
Acquired : Dec 04, 2000 05:51:42
Printed : Jan 05, 2001 14:09:49
User : System

c:\ezchromb\chrom\1204hp3.001 -- Channel A



c:\ezchromb\chrom\1204hp3.001 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\1204hp3.001
Method : c:\ezchromb\methods\lc1\l3ph1204.met
Sample ID : .05 initial cal
Acquired : Dec 04, 2000 05:51:42
Printed : Jan 05, 2001 14:09:49
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	4.82	122	0.06
ACENAPHTYLENE	5.65	50	0.04
1-METHYLNAPHT	6.40	0	0.00
2-METHYLNAPHT	6.80	0	0.00
ACENAPTHENE	7.07	39	0.07
FLUORENE	7.51	517	0.06
PHENANTHRENE	8.60	1450	0.06
ANTHRACENE	9.64	3461	0.06
FLUORANTHENE	10.88	327	0.06
PYRENE	11.68	334	0.07
P-TERPHENYL-D	13.45	592	0.12
BENZO(A)ANTHR	14.59	687	0.06
CHRYSENE	15.19	849	0.06
BENZO(B)FLUOR	17.62	967	0.07
BENZO(K)FLOUR	18.66	885	0.09
BENZO(A)PYREN	19.53	705	0.08
DIBENZ(AH)ANT	21.27	104	0.04
BENZO(GHI)PER	22.16	250	0.07
INDENO(123CD)	23.11	909	0.09

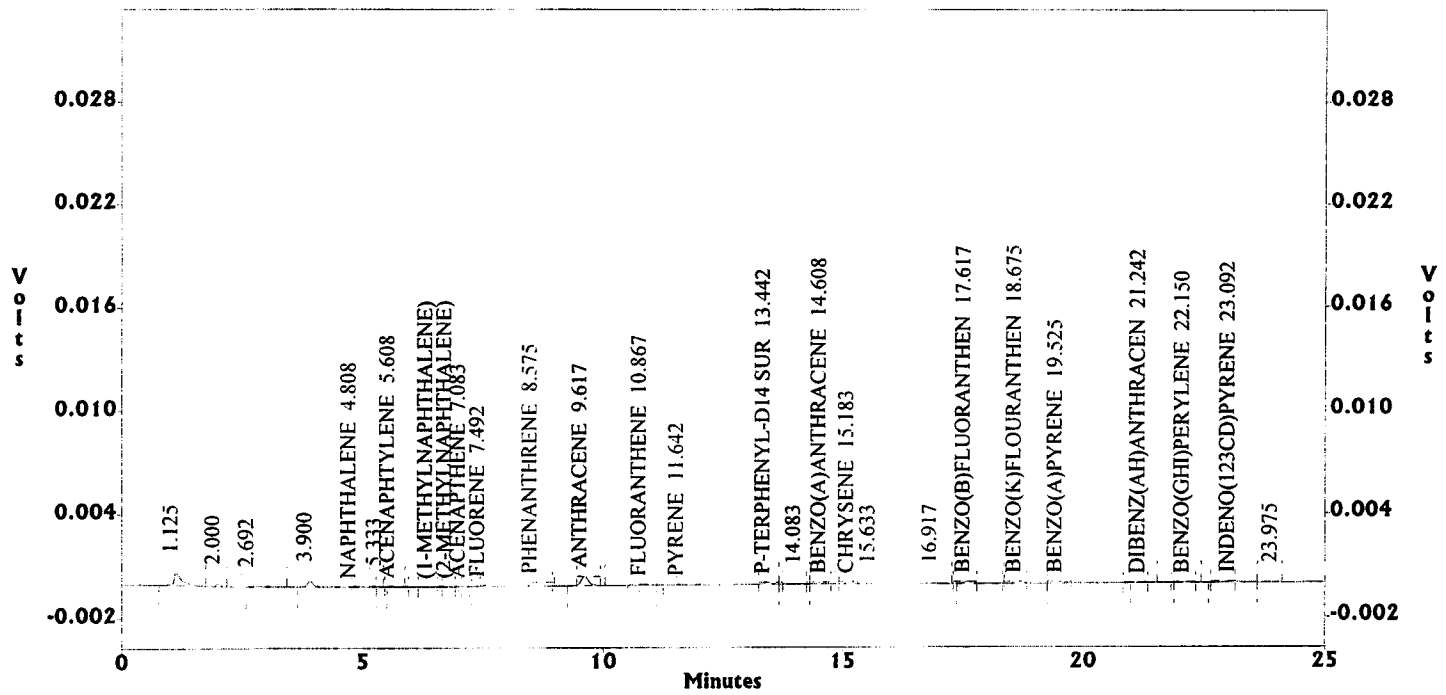
Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	4.92	17156	0.08
1-METHYLNAPHT	6.38	8294	0.00
2-METHYLNAPHT	6.80	10807	0.00
ACENAPTHENE	7.22	49461	0.04
FLUORENE	7.60	20104	0.12
PHENANTHRENE	8.73	17584	0.00
ANTHRACENE	9.73	7656	0.01
FLUORANTHENE	10.99	6171	0.00
PYRENE	11.78	35660	0.05
P-TERPHENYL-D	13.56	29846	0.10
BENZO(A)ANTHR	14.71	100350	0.08
CHRYSENE	15.29	167700	0.08
BENZO(B)FLUOR	17.72	53147	0.03
BENZO(K)FLUOR	18.77	366715	0.04
BENZO(A)PYREN	19.63	140189	0.07
DIBENZ(AH)ANT	21.37	48065	0.03
BENZO(GHI)PER	22.27	56161	0.03
INDENO(123CD)	23.19	7880	0.06

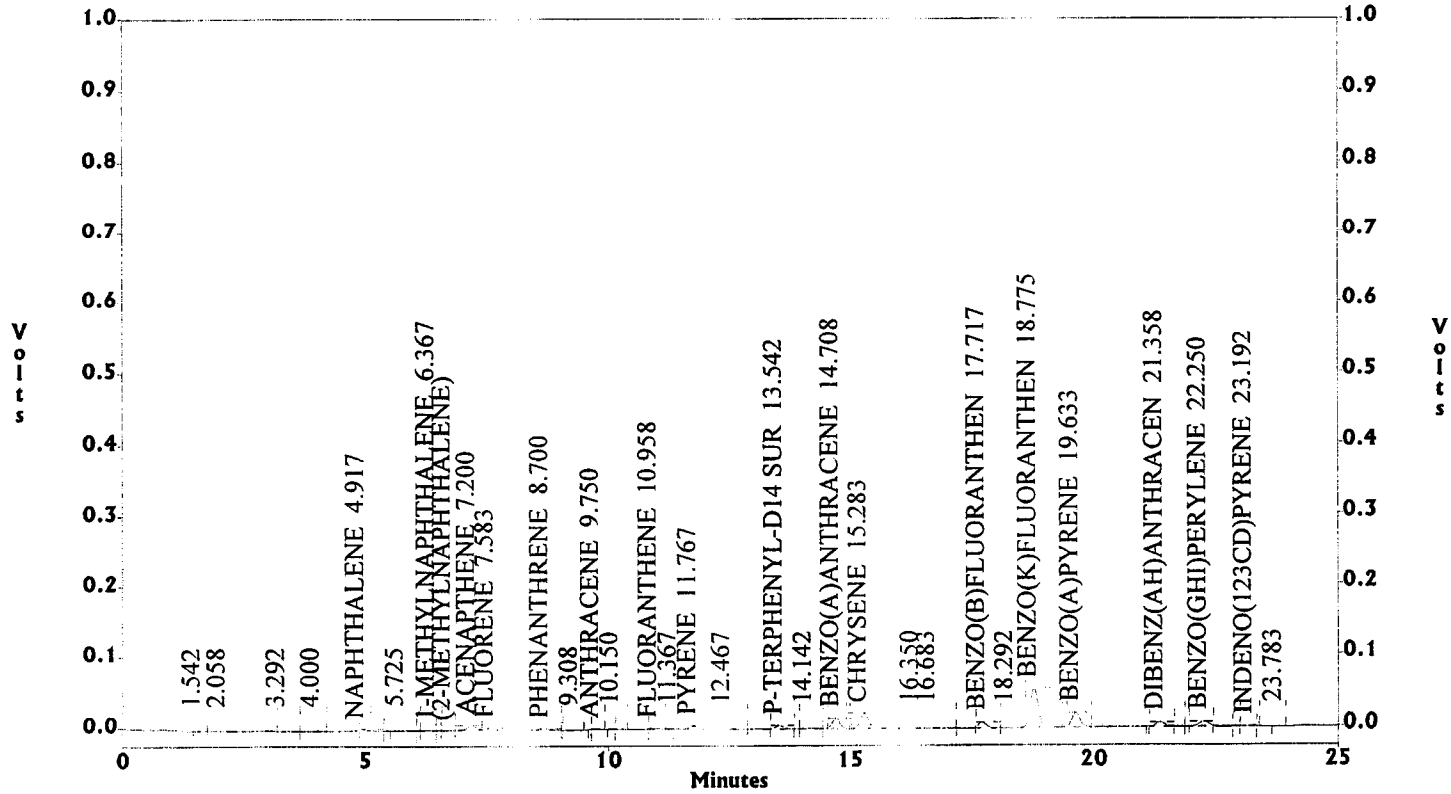
HPLC 1

File : c:\ezchromb\chrom\1204hp3.002
Method : c:\ezchromb\methods\lc1\13ph1204.met
Sample ID : .1 initial cal
Acquired : Dec 04, 2000 06:17:56
Printed : Jan 05, 2001 14:09:52
User : System

c:\ezchromb\chrom\1204hp3.002 -- Channel A



c:\ezchromb\chrom\1204hp3.002 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\1204hp3.002
Method : c:\ezchromb\methods\lc1\l3ph1204.met
Sample ID : .1 initial cal
Acquired : Dec 04, 2000 06:17:56
Printed : Jan 05, 2001 14:09:52
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	4.81	240	0.13
ACENAPHTYLENE	5.61	132	0.10
1-METHYLNAPHT	6.40	0	0.00
2-METHYLNAPHT	6.80	0	0.00
ACENAPTHENE	7.08	44	0.08
FLUORENE	7.49	799	0.10
PHENANTHRENE	8.57	2565	0.10
ANTHRACENE	9.62	5834	0.10
FLUORANTHENE	10.87	534	0.09
PYRENE	11.64	588	0.12
P-TERPHENYL-D	13.44	1369	0.28
BENZO(A)ANTHR	14.61	1199	0.10
CHRYSENE	15.18	1371	0.10
BENZO(B)FLUOR	17.62	1454	0.10
BENZO(K)FLOUR	18.67	1299	0.12
BENZO(A)PYREN	19.52	1170	0.12
DIBENZ(AH)ANT	21.24	267	0.11
BENZO(GHI)PER	22.15	515	0.12
INDENO(123CD)	23.09	1423	0.12

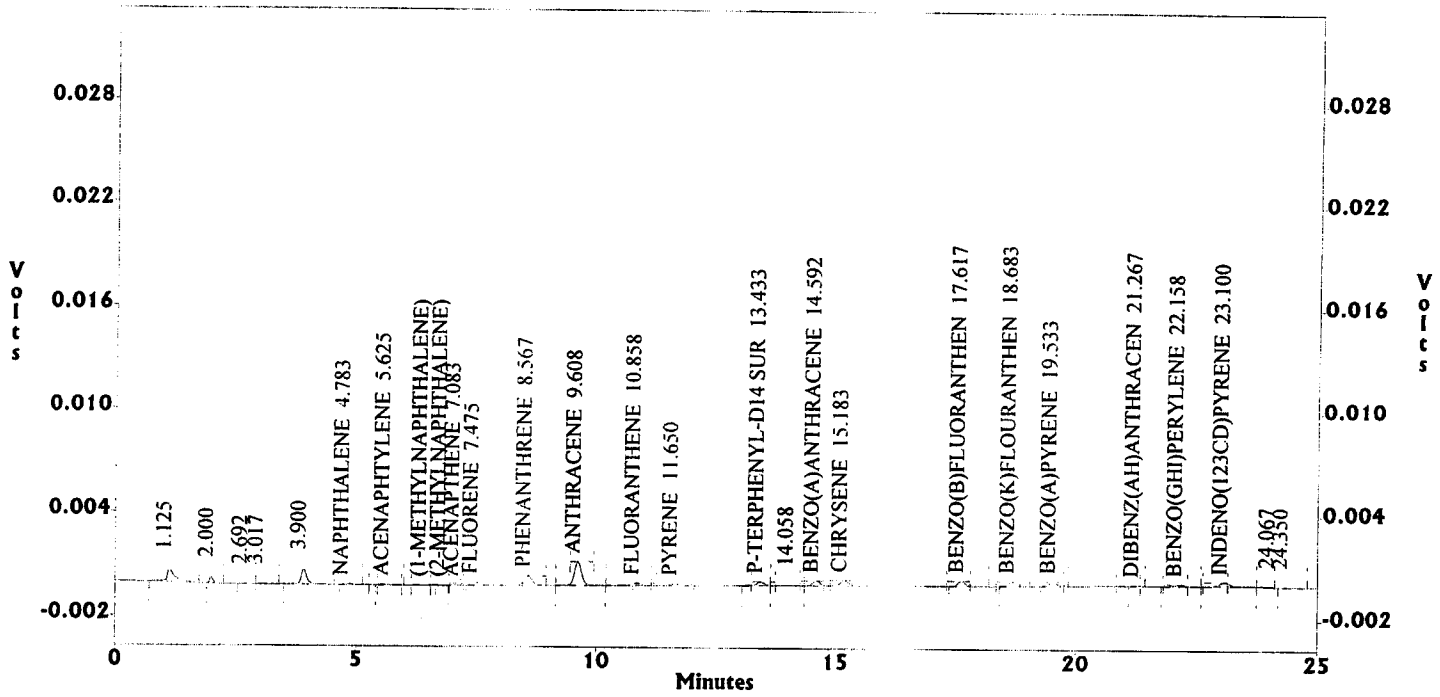
Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	4.92	24664	0.11
1-METHYLNAPHT	6.37	7605	0.00
2-METHYLNAPHT	6.70	0	0.00
ACENAPTHENE	7.20	78229	0.07
FLUORENE	7.58	31139	0.15
PHENANTHRENE	8.70	32719	0.07
ANTHRACENE	9.75	12109	0.04
FLUORANTHENE	10.96	15362	0.06
PYRENE	11.77	43936	0.07
P-TERPHENYL-D	13.54	61781	0.26
BENZO(A)ANTHR	14.71	153181	0.11
CHRYSENE	15.28	260332	0.11
BENZO(B)FLUOR	17.72	93174	0.07
BENZO(K)FLUOR	18.77	621585	0.08
BENZO(A)PYREN	19.63	227592	0.11
DIBENZ(AH)ANT	21.36	77049	0.07
BENZO(GHI)PER	22.25	99198	0.07
INDENO(123CD)	23.19	11186	0.08

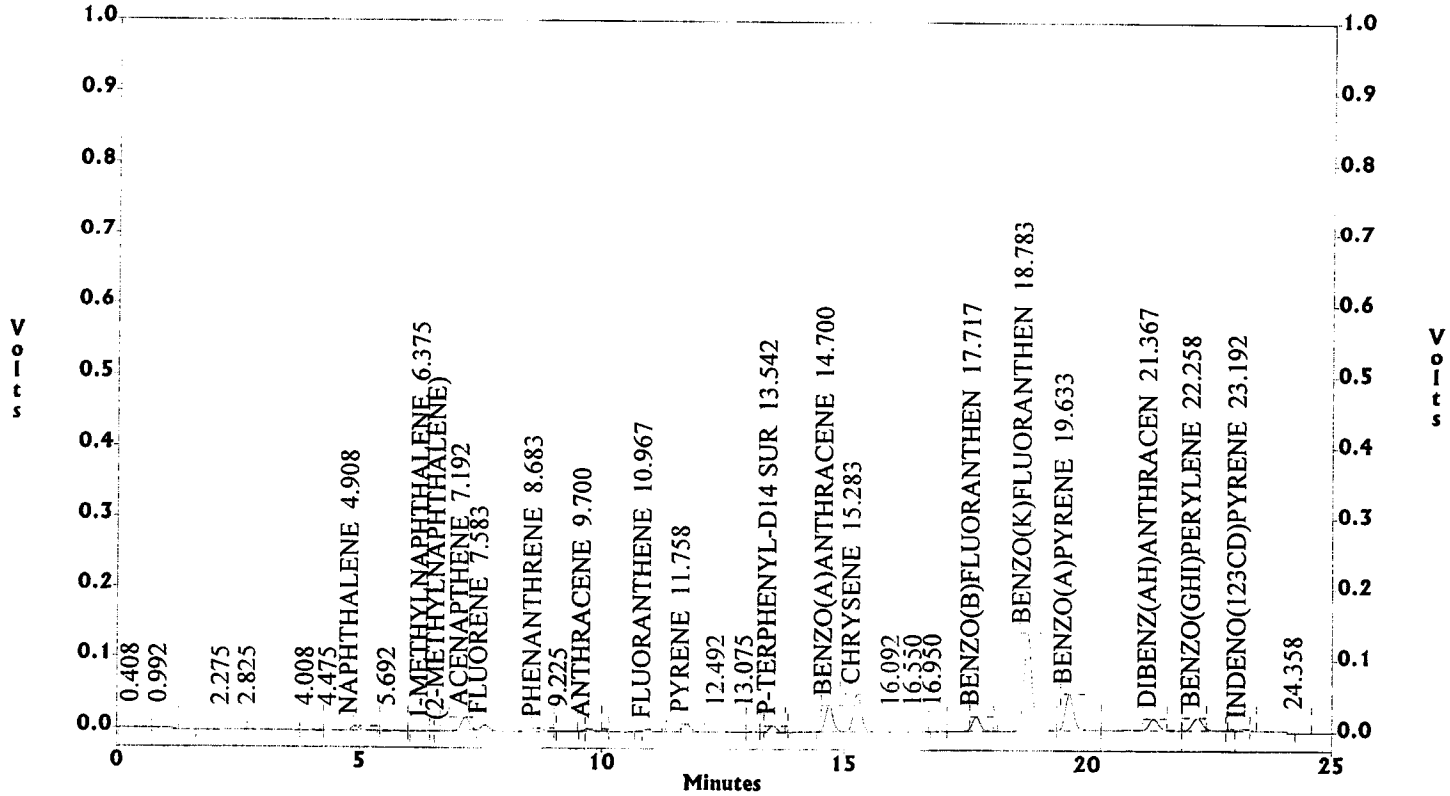
HPLC 1

File : c:\ezchromb\chrom\1204hp3.003
Method : c:\ezchromb\methods\lc1\l3ph1204.met
Sample ID : .25 initial cal
Acquired : Dec 04, 2000 06:44:10
Printed : Jan 05, 2001 14:09:53
User : System

c:\ezchromb\chrom\1204hp3.003 -- Channel A



c:\ezchromb\chrom\1204hp3.003 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\1204hp3.003
Method : c:\ezchromb\methods\lc1\l3ph1204.met
Sample ID : .25 initial cal
Acquired : Dec 04, 2000 06:44:10
Printed : Jan 05, 2001 14:09:54
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	4.78	439	0.23
ACENAPHTYLENE	5.63	348	0.27
1-METHYLNAPHT	6.40	0	0.00
2-METHYLNAPHT	6.80	0	0.00
ACENAPTHENE	7.08	104	0.19
FLUORENE	7.47	1872	0.23
PHENANTHRENE	8.57	6175	0.24
ANTHRACENE	9.61	14436	0.24
FLUORANTHENE	10.86	1458	0.25
PYRENE	11.65	1226	0.24
P-TERPHENYL-D	13.43	2181	0.44
BENZO(A)ANTHR	14.59	2937	0.24
CHRYSENE	15.18	3369	0.23
BENZO(B)FLUOR	17.62	3324	0.22
BENZO(K)FLOUR	18.68	2823	0.24
BENZO(A)PYREN	19.53	2787	0.24
DIBENZ(AH)ANT	21.27	488	0.19
BENZO(GHI)PER	22.16	1206	0.25
INDENO(123CD)	23.10	3516	0.25

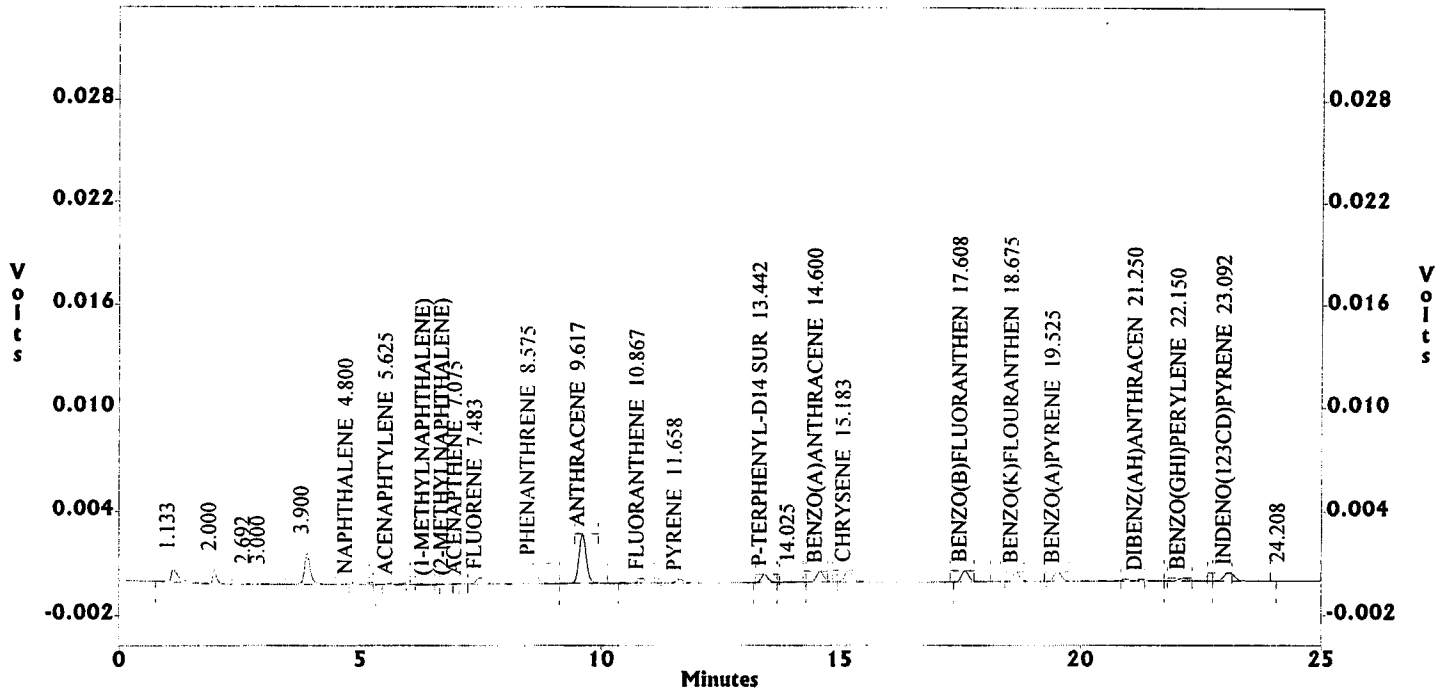
Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	4.91	73875	0.28
1-METHYLNAPHT	6.38	6312	0.00
2-METHYLNAPHT	6.70	0	0.00
ACENAPTHENE	7.19	199081	0.22
FLUORENE	7.58	76312	0.29
PHENANTHRENE	8.68	66145	0.24
ANTHRACENE	9.70	39040	0.24
FLUORANTHENE	10.97	33406	0.19
PYRENE	11.76	123571	0.21
P-TERPHENYL-D	13.54	99250	0.46
BENZO(A)ANTHR	14.70	382084	0.24
CHRYSENE	15.28	581890	0.24
BENZO(B)FLUOR	17.72	233441	0.22
BENZO(K)FLUOR	18.78	1564012	0.24
BENZO(A)PYREN	19.63	579428	0.24
DIBENZ(AH)ANT	21.37	213122	0.24
BENZO(GHI)PER	22.26	241296	0.22
INDENO(123CD)	23.19	36516	0.25

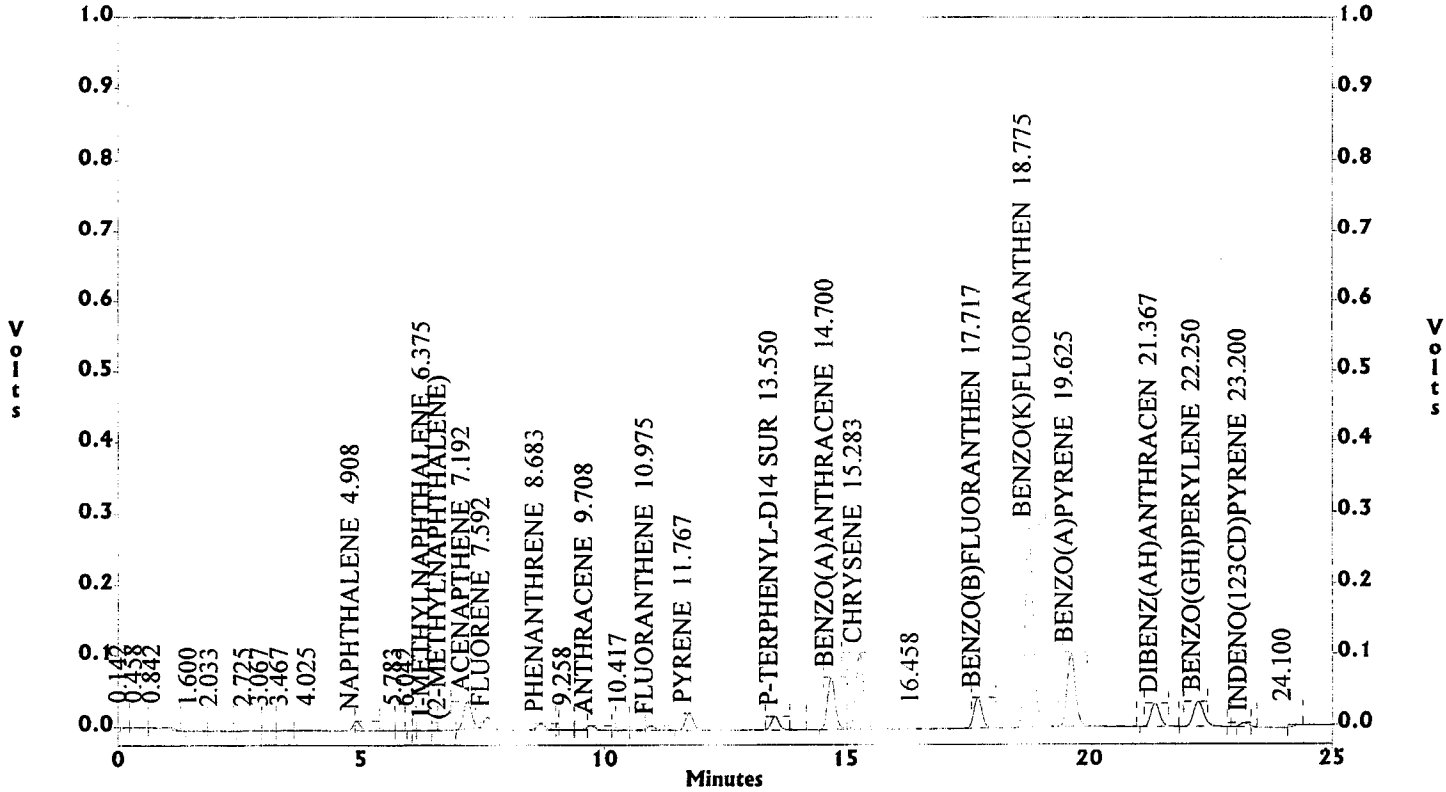
HPLC 1

File : c:\ezchromb\chrom\1204hp3.004
Method : c:\ezchromb\methods\lc1\13ph1204.met
Sample ID : .5 initial cal
Acquired : Dec 04, 2000 07:10:24
Printed : Jan 05, 2001 14:09:55
User : System

c:\ezchromb\chrom\1204hp3.004 -- Channel A



c:\ezchromb\chrom\1204hp3.004 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\1204hp3.004
Method : c:\ezchromb\methods\lc1\l3ph1204.met
Sample ID : .5 initial cal
Acquired : Dec 04, 2000 07:10:24
Printed : Jan 05, 2001 14:09:55
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	4.80	924	0.49
ACENAPHTYLENE	5.63	667	0.52
1-METHYLNAPHT	6.40	0	0.00
2-METHYLNAPHT	6.80	0	0.00
ACENAPTHENE	7.07	357	0.65
FLUORENE	7.48	3987	0.50
PHENANTHRENE	8.57	12564	0.49
ANTHRACENE	9.62	29771	0.49
FLUORANTHENE	10.87	2813	0.48
PYRENE	11.66	2356	0.46
P-TERPHENYL-D	13.44	4270	0.87
BENZO(A)ANTHR	14.60	6036	0.49
CHRYSENE	15.18	6927	0.48
BENZO(B)FLUOR	17.61	6822	0.46
BENZO(K)FLOUR	18.67	5939	0.48
BENZO(A)PYREN	19.52	5920	0.48
DIBENZ(AH)ANT	21.25	1635	0.64
BENZO(GHI)PER	22.15	2481	0.49
INDENO(123CD)	23.09	7274	0.48

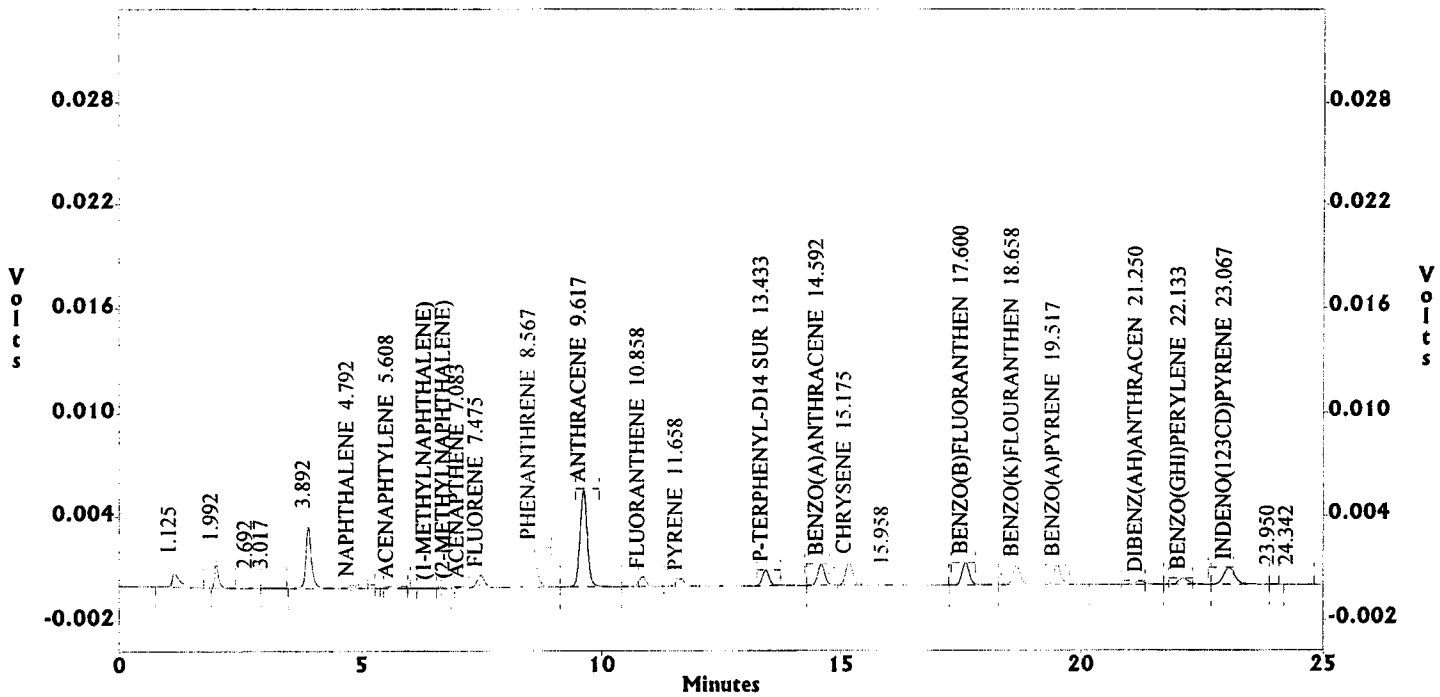
Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	4.91	152398	0.55
1-METHYLNAPHT	6.38	3797	0.00
2-METHYLNAPHT	6.70	0	0.00
ACENAPTHENE	7.19	417535	0.48
FLUORENE	7.59	156863	0.54
PHENANTHRENE	8.68	118520	0.51
ANTHRACENE	9.71	79342	0.54
FLUORANTHENE	10.98	82477	0.55
PYRENE	11.77	277273	0.49
P-TERPHENYL-D	13.55	227981	1.13
BENZO(A)ANTHR	14.70	784927	0.48
CHRYSENE	15.28	1193626	0.48
BENZO(B)FLUOR	17.72	501085	0.49
BENZO(K)FLUOR	18.77	3235247	0.52
BENZO(A)PYREN	19.63	1207252	0.48
DIBENZ(AH)ANT	21.37	397274	0.47
BENZO(GHI)PER	22.25	503609	0.48
INDENO(123CD)	23.20	75425	0.51

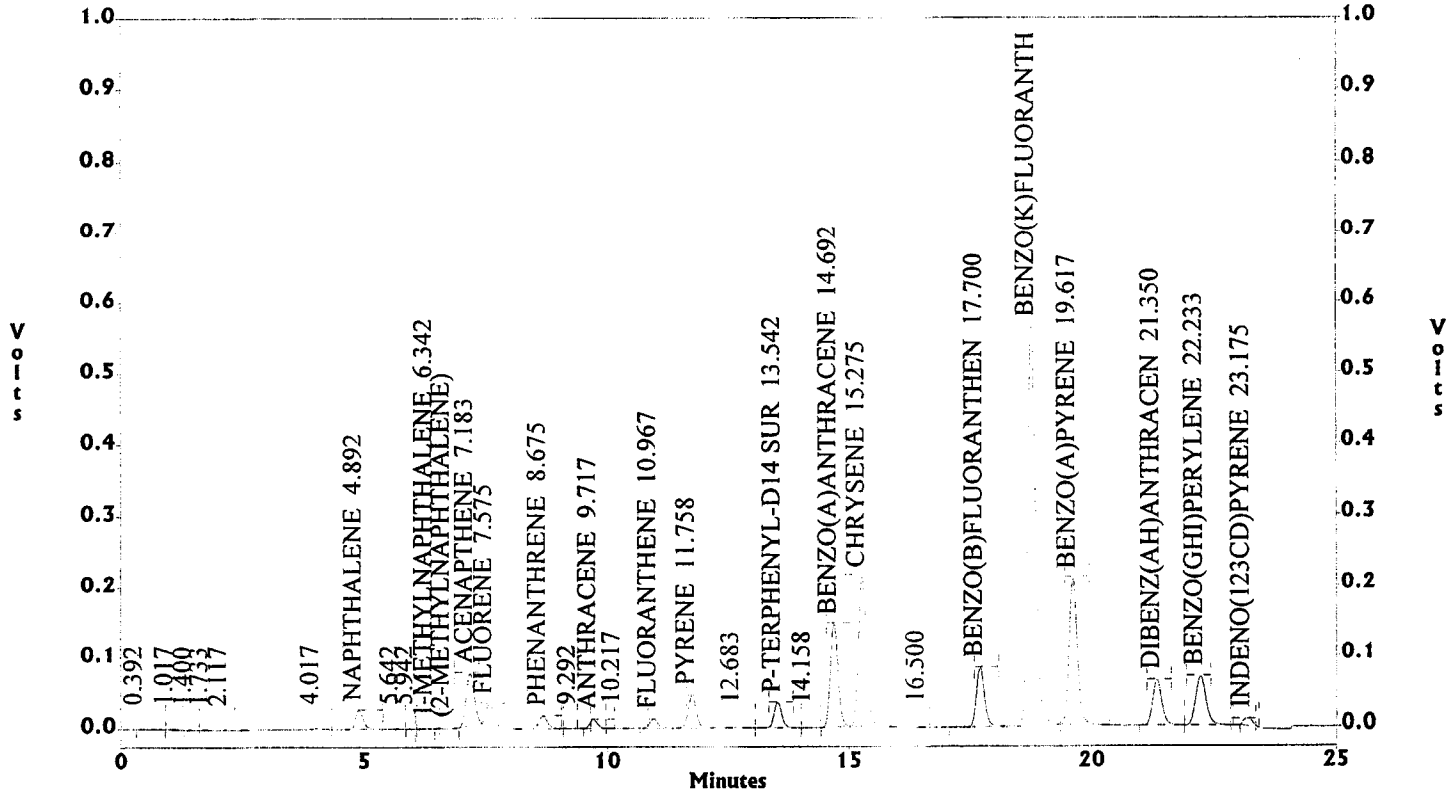
HPLC 1

File : c:\ezchromb\chrom\1204hp3.005
Method : c:\ezchromb\methods\lc1\l3ph1204.met
Sample ID : 1.0 initial cal
Acquired : Dec 04, 2000 07:36:38
Printed : Jan 05, 2001 14:09:57
User : System

c:\ezchromb\chrom\1204hp3.005 -- Channel A



c:\ezchromb\chrom\1204hp3.005 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\1204hp3.005
Method : c:\ezchromb\methods\lc1\l3ph1204.met
Sample ID : 1.0 initial cal
Acquired : Dec 04, 2000 07:36:38
Printed : Jan 05, 2001 14:09:57
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	4.79	1790	0.95
ACENAPHTYLENE	5.61	1302	1.01
1-METHYLNAPHT	6.40	0	0.00
2-METHYLNAPHT	6.80	0	0.00
ACENAPTHENE	7.08	526	0.95
FLUORENE	7.47	7528	0.94
PHENANTHRENE	8.57	24767	0.96
ANTHRACENE	9.62	59411	0.98
FLUORANTHENE	10.86	5673	0.97
PYRENE	11.66	4633	0.91
P-TERPHENYL-D	13.43	9141	1.86
BENZO(A)ANTHR	14.59	12004	0.97
CHRYSENE	15.18	13743	0.95
BENZO(B)FLUOR	17.60	13639	0.92
BENZO(K)FLOUR	18.66	11858	0.95
BENZO(A)PYREN	19.52	12134	0.95
DIBENZ(AH)ANT	21.25	2673	1.05
BENZO(GHI)PER	22.13	5015	0.97
INDENO(123CD)	23.07	14584	0.93

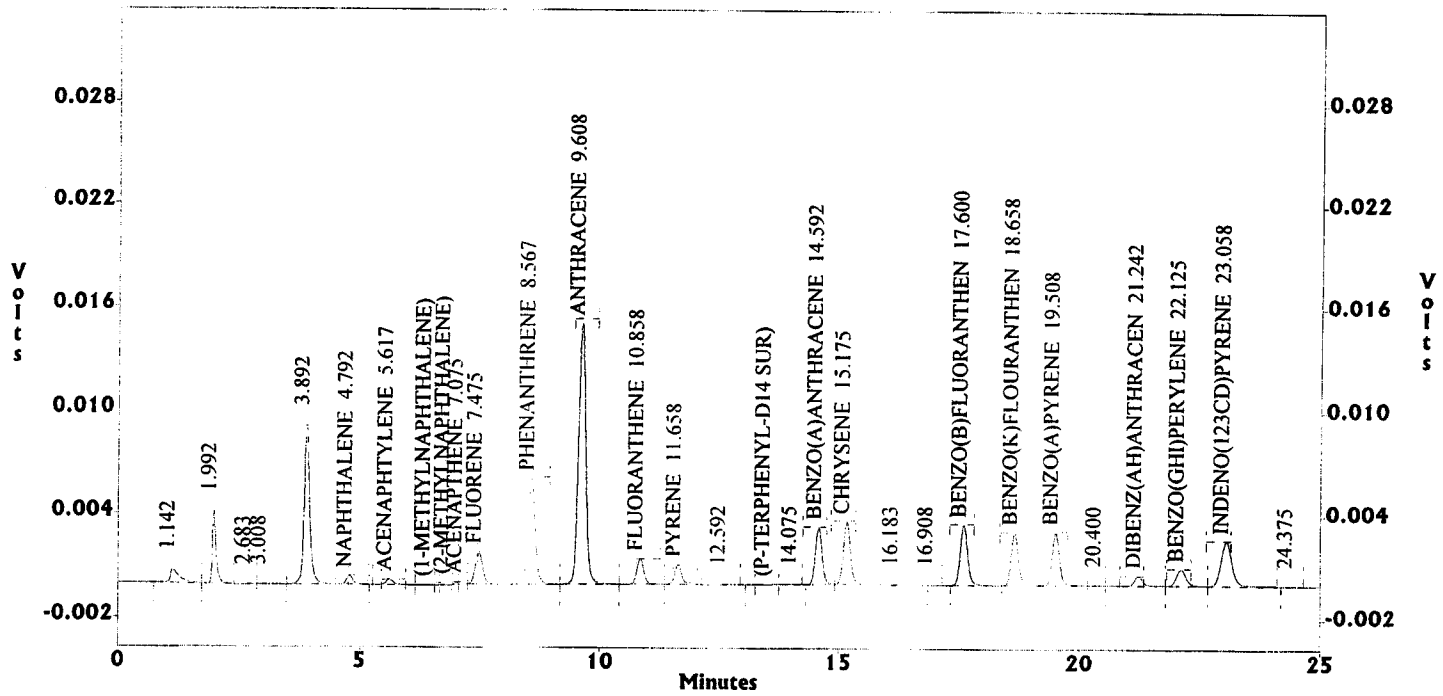
Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	4.89	269027	0.96
1-METHYLNAPHT	6.34	5247	0.00
2-METHYLNAPHT	6.70	0	0.00
ACENAPTHENE	7.18	827524	0.97
FLUORENE	7.57	312761	1.01
PHENANTHRENE	8.68	207898	0.96
ANTHRACENE	9.72	133658	0.95
FLUORANTHENE	10.97	144637	0.99
PYRENE	11.76	536981	0.96
P-TERPHENYL-D	13.54	383616	1.93
BENZO(A)ANTHR	14.69	1578393	0.94
CHRYSENE	15.27	2385636	0.94
BENZO(B)FLUOR	17.70	965971	0.98
BENZO(K)FLUOR	18.77	6482594	1.07
BENZO(A)PYREN	19.62	2409023	0.95
DIBENZ(AH)ANT	21.35	801235	0.97
BENZO(GHI)PER	22.23	1011404	0.99
INDENO(123CD)	23.17	123955	0.83

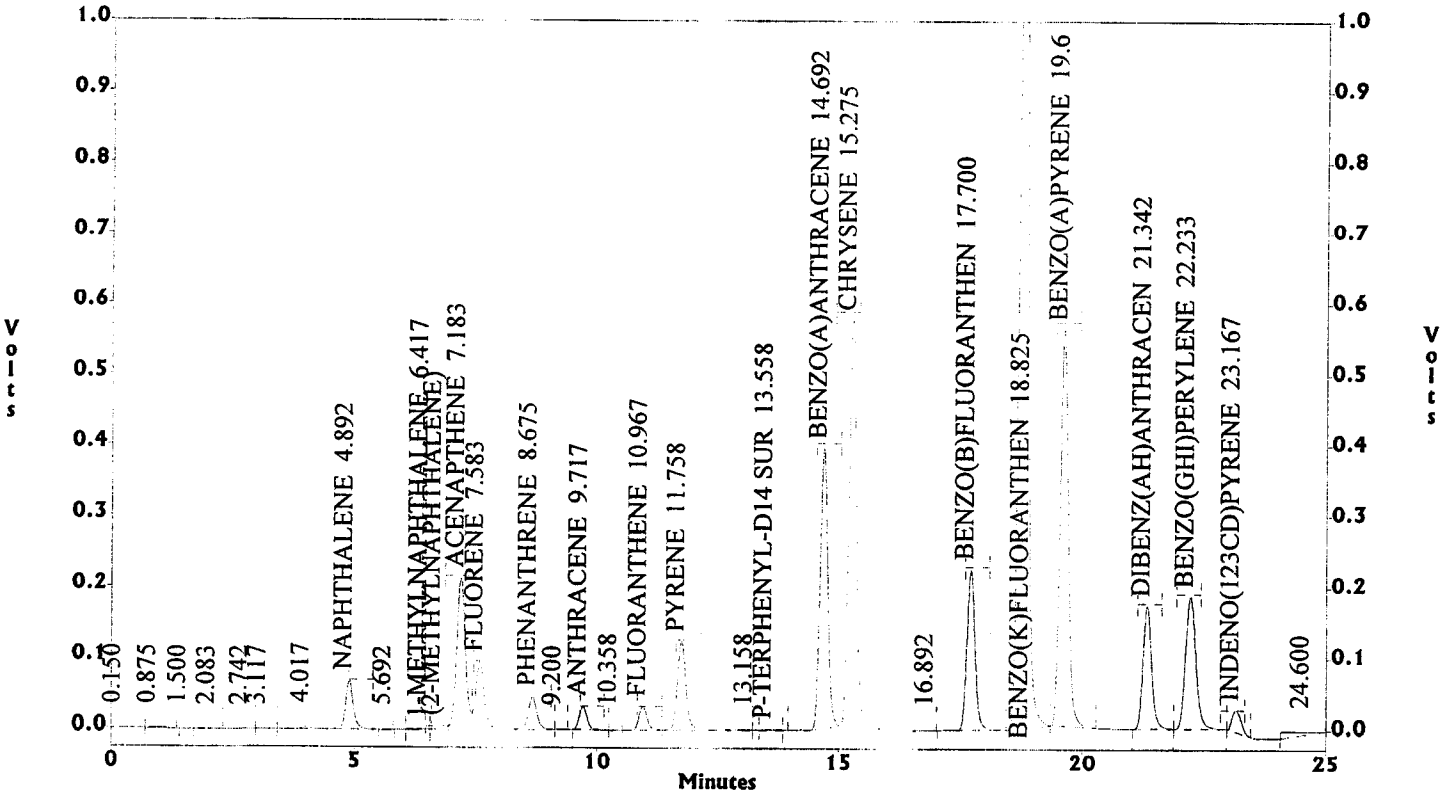
HPLC 1

File : c:\ezchromb\chrom\1204hp3.006
Method : c:\ezchromb\methods\lc1\l3ph1204.met
Sample ID : 2.5 initial cal
Acquired : Dec 04, 2000 08:02:52
Printed : Jan 05, 2001 14:09:59
User : System

c:\ezchromb\chrom\1204hp3.006 -- Channel A



c:\ezchromb\chrom\1204hp3.006 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\1204hp3.006
Method : c:\ezchromb\methods\lc1\l3ph1204.met
Sample ID : 2.5 initial cal
Acquired : Dec 04, 2000 08:02:52
Printed : Jan 05, 2001 14:09:59
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	4.79	4765	2.53
ACENAPHTYLENE	5.62	3465	2.68
1-METHYLNAPHT	6.40	0	0.00
2-METHYLNAPHT	6.80	0	0.00
ACENAPTHENE	7.07	1368	2.48
FLUORENE	7.47	20282	2.52
PHENANTHRENE	8.57	66652	2.60
ANTHRACENE	9.61	160551	2.64
FLUORANTHENE	10.86	15419	2.64
PYRENE	11.66	12454	2.44
P-TERPHENYL-D	13.50	0	0.00
BENZO(A)ANTHR	14.59	32527	2.62
CHRYSENE	15.18	36744	2.55
BENZO(B)FLUOR	17.60	36706	2.47
BENZO(K)FLOUR	18.66	31990	2.52
BENZO(A)PYREN	19.51	32785	2.52
DIBENZ(AH)ANT	21.24	6465	2.55
BENZO(GHI)PER	22.13	13124	2.51
INDENO(123CD)	23.06	40435	2.53

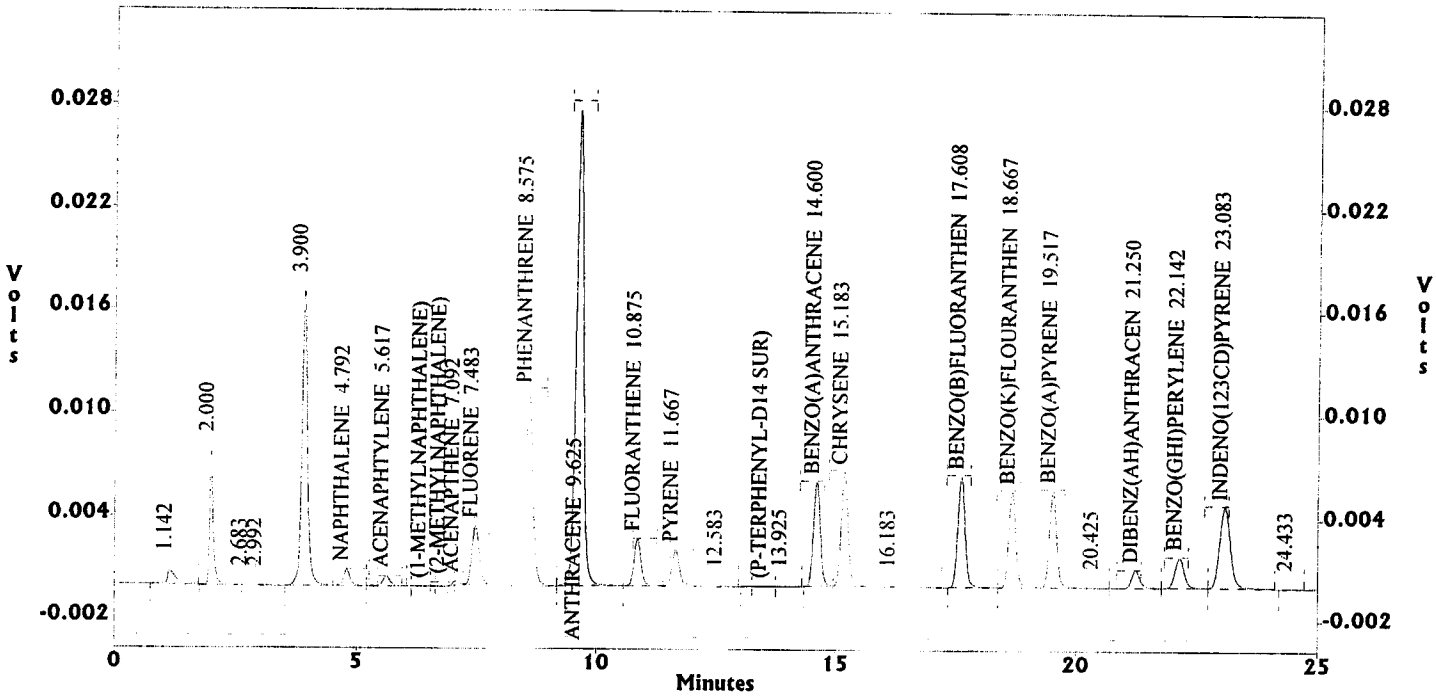
Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	4.89	740220	2.60
1-METHYLNAPHT	6.42	10684	0.00
2-METHYLNAPHT	6.70	0	0.00
ACENAPTHENE	7.18	2259054	2.67
FLUORENE	7.58	843653	2.64
PHENANTHRENE	8.68	546744	2.68
ANTHRACENE	9.72	359024	2.64
FLUORANTHENE	10.97	375322	2.65
PYRENE	11.76	1458911	2.64
P-TERPHENYL-D	13.56	15155	0.02
BENZO(A)ANTHR	14.69	4291100	2.53
CHRYSENE	15.27	6427160	2.52
BENZO(B)FLUOR	17.70	2600051	2.68
BENZO(K)FLUOR	18.83	14755366	2.47
BENZO(A)PYREN	19.62	6494444	2.52
DIBENZ(AH)ANT	21.34	2154327	2.67
BENZO(GHI)PER	22.23	2691149	2.67
INDENO(123CD)	23.17	377610	2.50

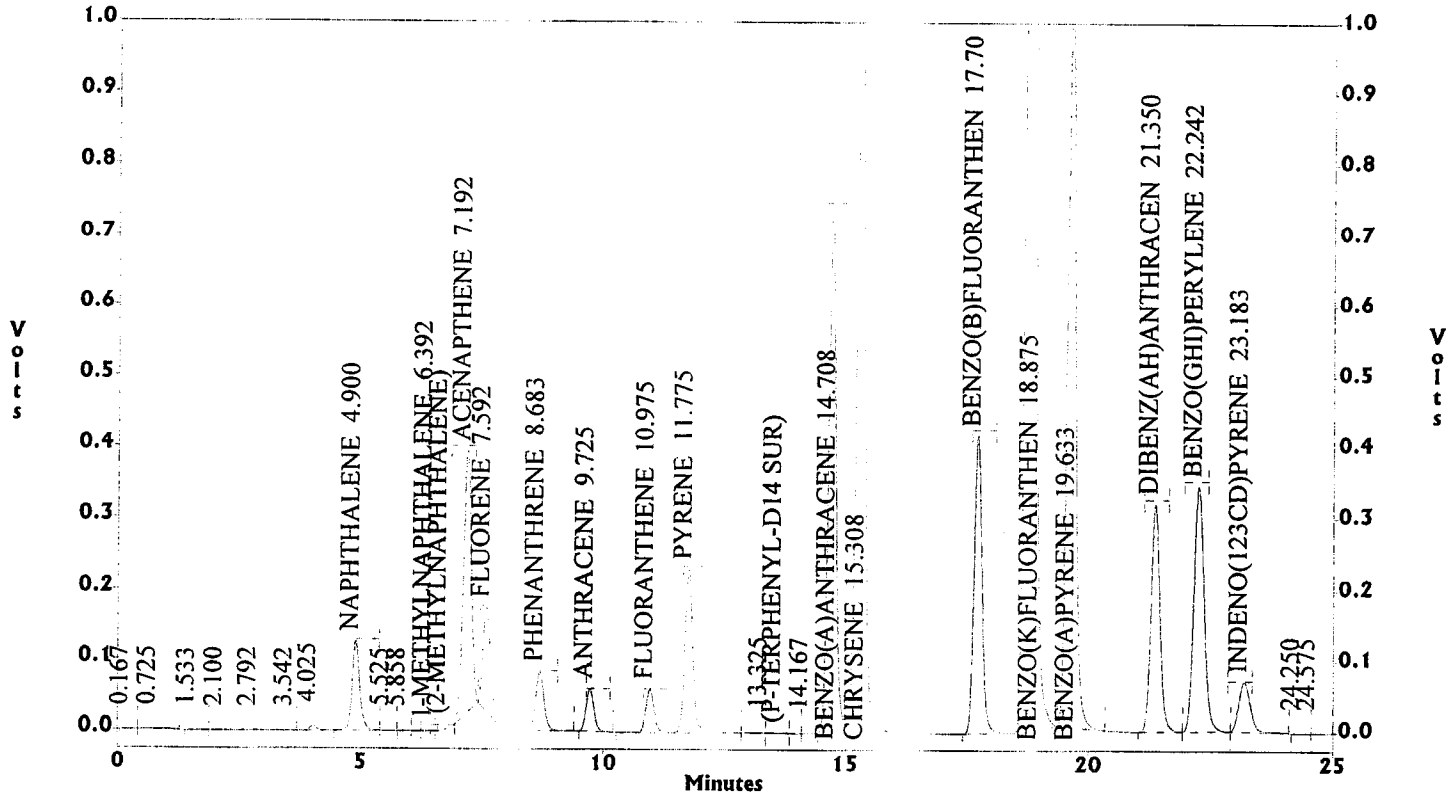
HPLC 1

File : c:\ezchromb\chrom\1204hp3.007
Method : c:\ezchromb\methods\lcl\l3phl204.met
Sample ID : 5.0 initial cal
Acquired : Dec 04, 2000 08:29:05
Printed : Jan 05, 2001 14:10:02
User : System

c:\ezchromb\chrom\1204hp3.007 -- Channel A



c:\ezchromb\chrom\1204hp3.007 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\1204hp3.007
Method : c:\ezchromb\methods\lc1\l3ph1204.met
Sample ID : 5.0 initial cal
Acquired : Dec 04, 2000 08:29:05
Printed : Jan 05, 2001 14:10:02
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	4.79	8810	4.68
ACENAPHTYLENE	5.62	6424	4.97
1-METHYLNAPHT	6.40	0	0.00
2-METHYLNAPHT	6.80	0	0.00
ACENAPTHENE	7.09	2544	4.61
FLUORENE	7.48	37496	4.67
PHENANTHRENE	8.57	123198	4.80
ANTHRACENE	9.63	295821	4.87
FLUORANTHENE	10.88	28477	4.87
PYRENE	11.67	22991	4.51
P-TERPHENYL-D	13.50	0	0.00
BENZO(A)ANTHR	14.60	60454	4.86
CHRYSENE	15.18	67986	4.72
BENZO(B)FLUOR	17.61	68127	4.59
BENZO(K)FLOUR	18.67	59279	4.66
BENZO(A)PYREN	19.52	60990	4.66
DIBENZ(AH)ANT	21.25	12036	4.74
BENZO(GHI)PER	22.14	24459	4.67
INDENO(123CD)	23.08	74386	4.62

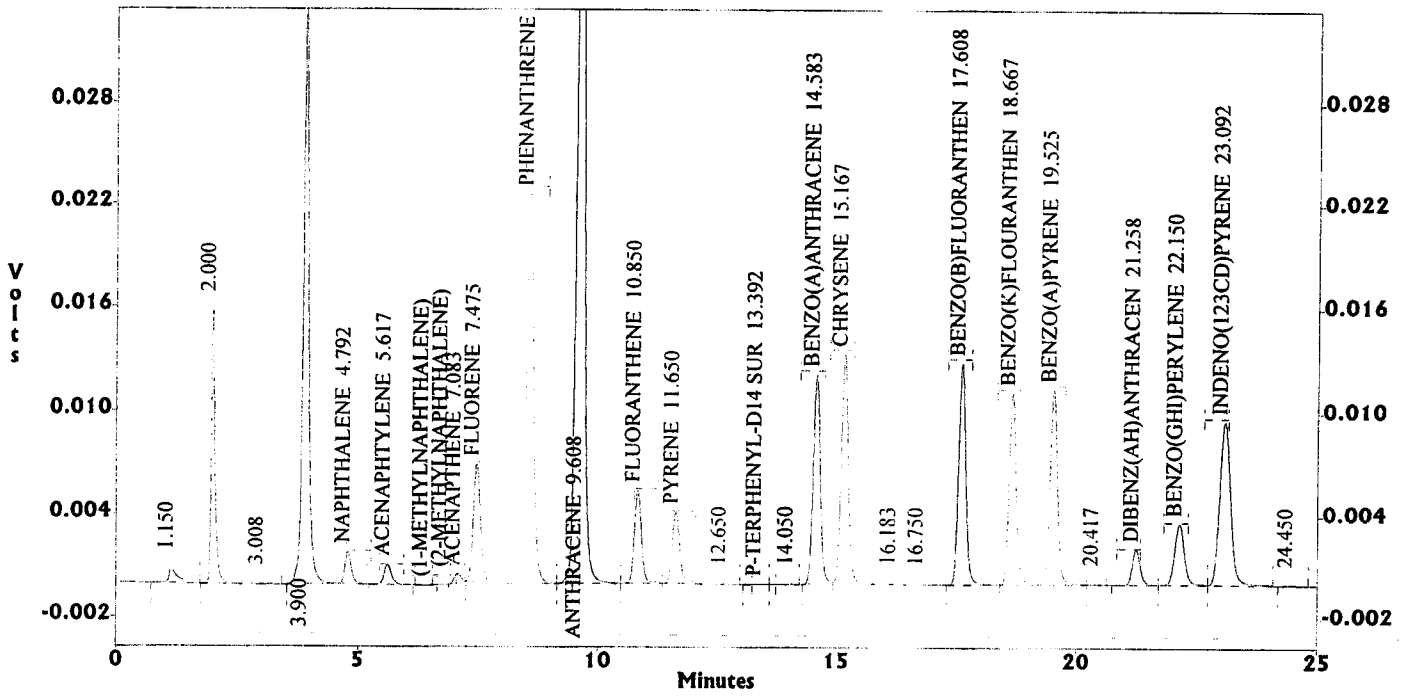
Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	4.90	1367232	4.78
1-METHYLNAPHT	6.39	5879	0.00
2-METHYLNAPHT	6.70	0	0.00
ACENAPTHENE	7.19	4186607	4.98
FLUORENE	7.59	1564530	4.85
PHENANTHRENE	8.68	990879	4.94
ANTHRACENE	9.73	676891	5.03
FLUORANTHENE	10.98	708352	5.04
PYRENE	11.77	2714797	4.93
P-TERPHENYL-D	13.60	0	0.00
BENZO(A)ANTHR	14.71	7979133	4.68
CHRYSENE	15.31	11749645	4.61
BENZO(B)FLUOR	17.71	4801451	4.97
BENZO(K)FLUOR	18.88	18401800	3.08
BENZO(A)PYREN	19.63	11984582	4.64
DIBENZ(AH)ANT	21.35	4004820	4.99
BENZO(GHI)PER	22.24	4990158	4.97
INDENO(123CD)	23.18	1139734	7.53

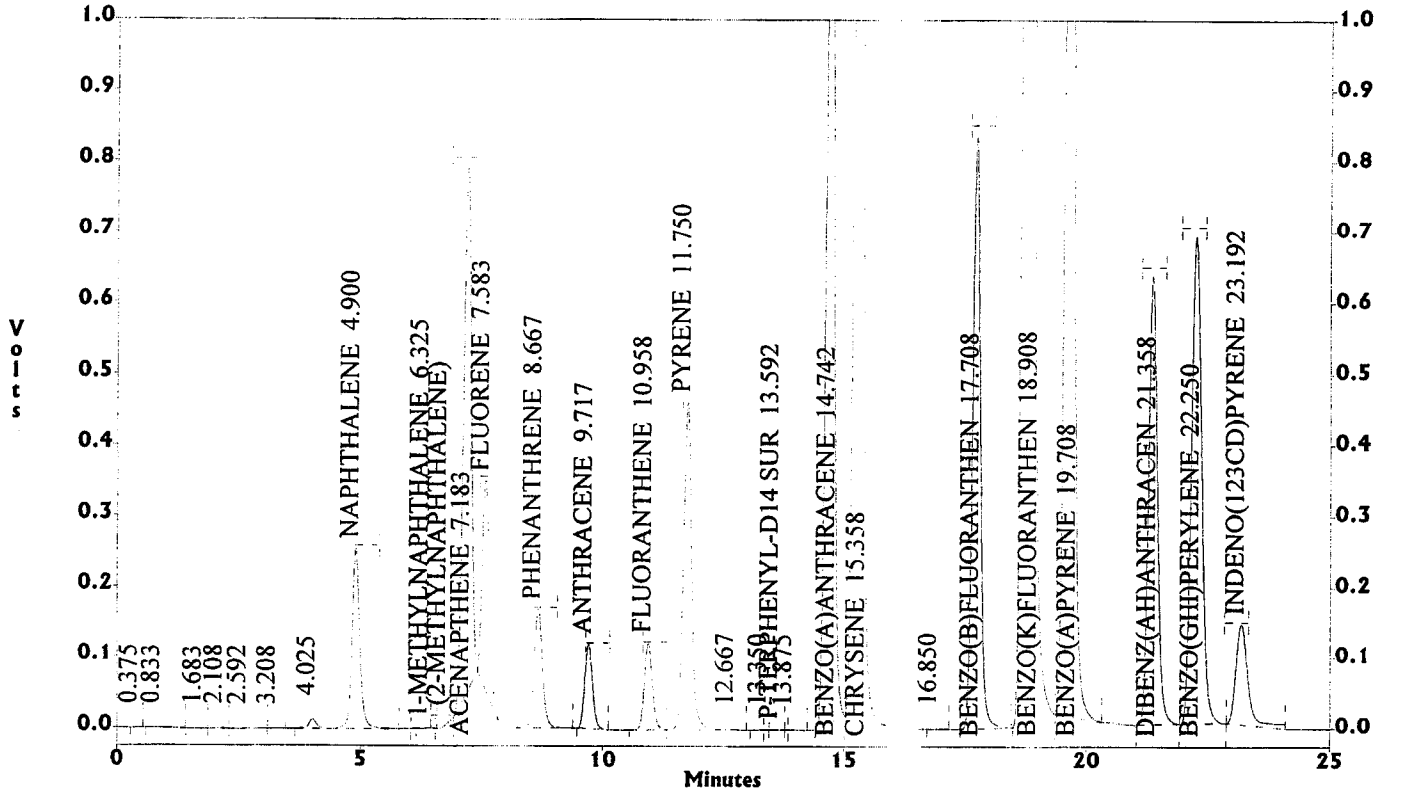
HPLC 1

File : c:\ezchromb\chrom\1204hp3.008
Method : c:\ezchromb\methods\lc1\l3ph1204.met
Sample ID : 10.0 initial cal
Acquired : Dec 04, 2000 08:55:19
Printed : Jan 05, 2001 14:10:04
User : System

c:\ezchromb\chrom\1204hp3.008 -- Channel A



c:\ezchromb\chrom\1204hp3.008 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\1204hp3.008
Method : c:\ezchromb\methods\lc1\13ph1204.met
Sample ID : 10.0 initial cal
Acquired : Dec 04, 2000 08:55:19
Printed : Jan 05, 2001 14:10:04
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	4.79	17596	9.34
ACENAPHTYLENE	5.62	12706	9.84
1-METHYLNAPHT	6.40	0	0.00
2-METHYLNAPHT	6.80	0	0.00
ACENAPTHENE	7.08	5066	9.17
FLUORENE	7.47	74907	9.32
PHENANTHRENE	8.57	246090	9.58
ANTHRACENE	9.61	585752	9.64
FLUORANTHENE	10.85	57082	9.76
PYRENE	11.65	46117	9.05
P-TERPHENYL-D	13.39	221	0.04
BENZO(A)ANTHR	14.58	121380	9.77
CHRYSENE	15.17	136267	9.46
BENZO(B)FLUOR	17.61	136753	9.20
BENZO(K)FLOUR	18.67	119036	9.33
BENZO(A)PYREN	19.52	122741	9.35
DIBENZ(AH)ANT	21.26	24121	9.50
BENZO(GHI)PER	22.15	49403	9.41
INDENO(123CD)	23.09	148485	9.19

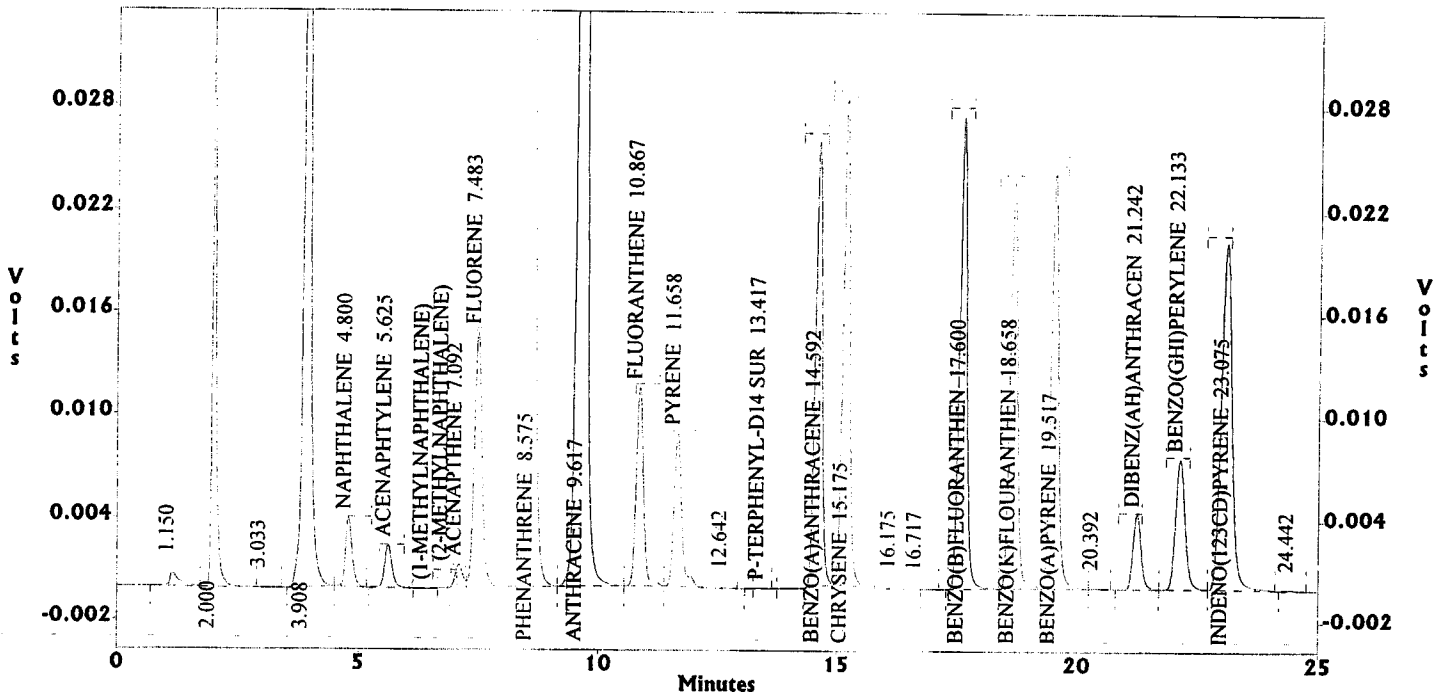
Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	4.90	2753995	9.61
1-METHYLNAPHT	6.32	5874	0.00
2-METHYLNAPHT	6.70	0	0.00
ACENAPTHENE	7.18	8368973	9.97
FLUORENE	7.58	3116534	9.60
PHENANTHRENE	8.67	1984470	9.98
ANTHRACENE	9.72	1332511	9.95
FLUORANTHENE	10.96	1390347	9.94
PYRENE	11.75	5380617	9.79
P-TERPHENYL-D	13.59	2482	0.00
BENZO(A)ANTHR	14.74	13721678	8.04
CHRYSENE	15.36	16189476	6.34
BENZO(B)FLUOR	17.71	9617082	9.97
BENZO(K)FLUOR	18.91	22040732	3.70
BENZO(A)PYREN	19.71	16716255	6.46
DIBENZ(AH)ANT	21.36	7969578	9.96
BENZO(GHI)PER	22.25	9981953	9.97
INDENO(123CD)	23.19	2487825	16.42

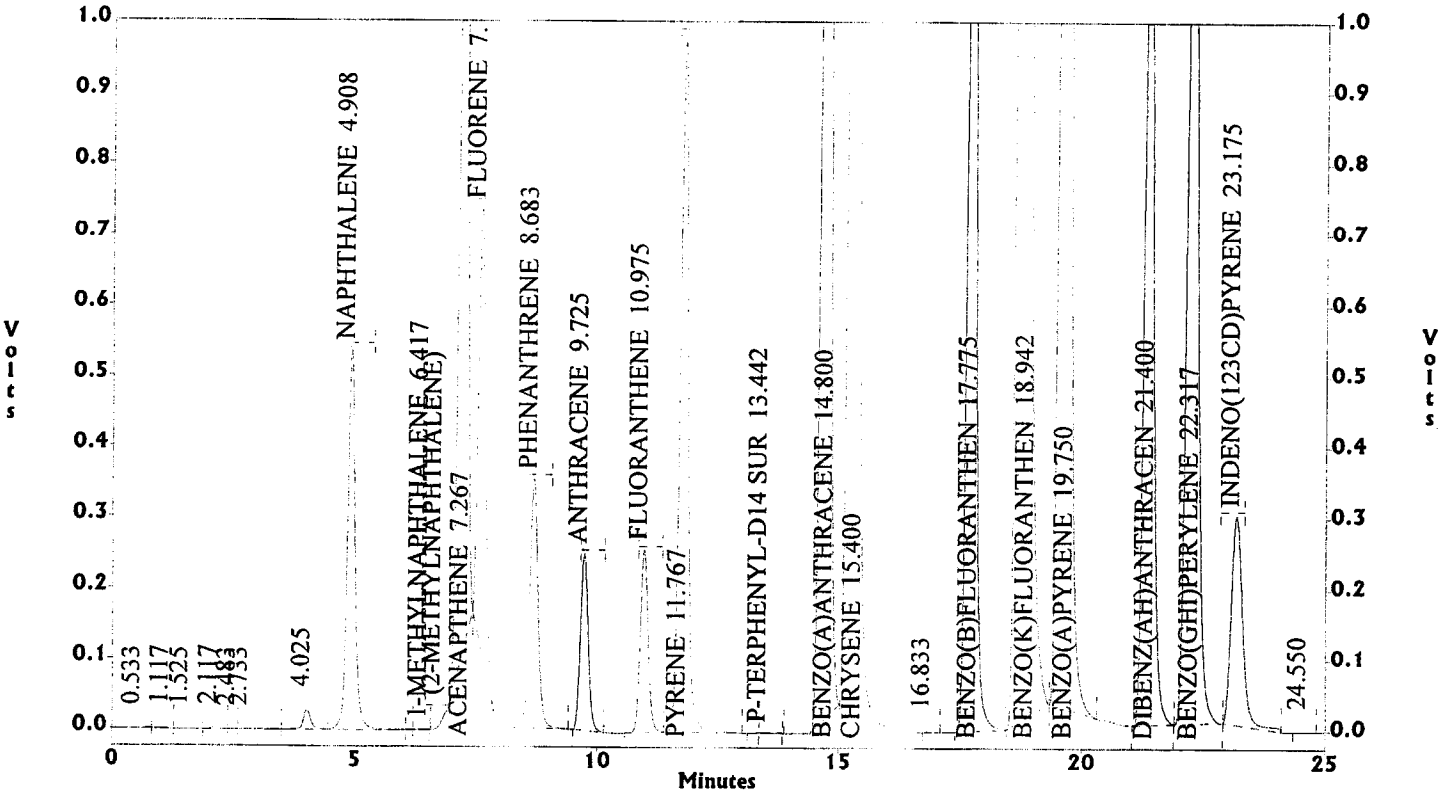
HPLC 1

File : c:\ezchromb\chrom\1204hp3.009
Method : c:\ezchromb\methods\lc1\l3ph1204.met
Sample ID : 20 initial cal
Acquired : Dec 04, 2000 09:21:32
Printed : Jan 05, 2001 14:10:06
User : System

c:\ezchromb\chrom\1204hp3.009 -- Channel A



c:\ezchromb\chrom\1204hp3.009 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\1204hp3.009
Method : c:\ezchromb\methods\lc1\l3ph1204.met
Sample ID : 20 initial cal
Acquired : Dec 04, 2000 09:21:32
Printed : Jan 05, 2001 14:10:06
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	4.80	36882	19.58
ACENAPHTYLENE	5.63	26739	20.70
1-METHYLNAPHT	6.40	0	0.00
2-METHYLNAPHT	6.80	0	0.00
ACENAPTHENE	7.09	10628	19.25
FLUORENE	7.48	158122	19.68
PHENANTHRENE	8.57	518721	20.20
ANTHRACENE	9.62	1209726	19.90
FLUORANTHENE	10.87	120775	20.66
PYRENE	11.66	97580	19.14
P-TERPHENYL-D	13.42	487	0.10
BENZO(A)ANTHR	14.59	257256	20.70
CHRYSENE	15.18	288059	19.99
BENZO(B)FLUOR	17.60	289570	19.49
BENZO(K)FLOUR	18.66	252207	19.75
BENZO(A)PYREN	19.52	260962	19.85
DIBENZ(AH)ANT	21.24	51221	20.18
BENZO(GHI)PER	22.13	104924	19.96
INDENO(123CD)	23.08	313937	19.39

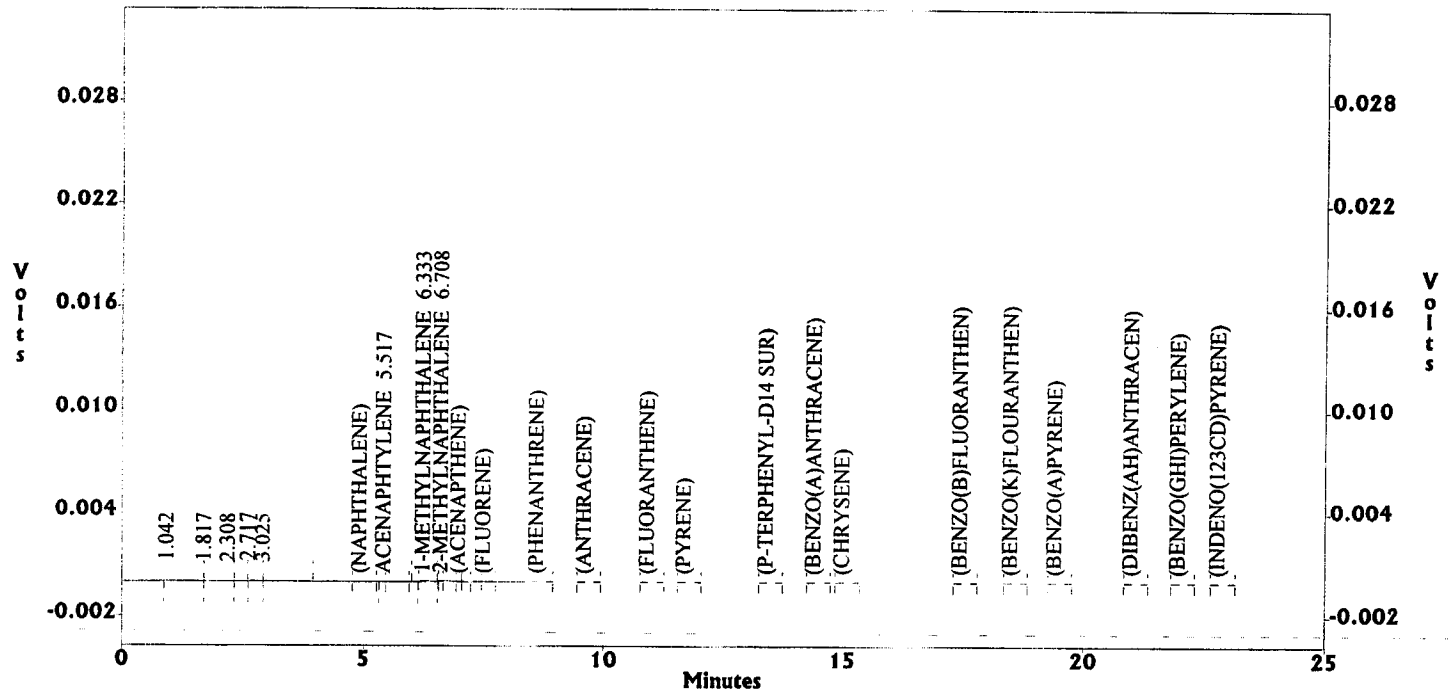
Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	4.91	5799885	20.22
1-METHYLNAPHT	6.42	7901	0.00
2-METHYLNAPHT	6.70	0	0.00
ACENAPTHENE	7.27	13628614	16.25
FLUORENE	7.59	6580364	20.21
PHENANTHRENE	8.68	4187593	21.16
ANTHRACENE	9.73	2800871	20.97
FLUORANTHENE	10.98	2931009	21.00
PYRENE	11.77	11318958	20.61
P-TERPHENYL-D	13.44	19956	0.05
BENZO(A)ANTHR	14.80	17530794	10.26
CHRYSENE	15.40	19675304	7.70
BENZO(B)FLUOR	17.77	15699009	16.30
BENZO(K)FLUOR	18.94	25765960	4.33
BENZO(A)PYREN	19.75	20521086	7.93
DIBENZ(AH)ANT	21.40	15049605	18.84
BENZO(GHI)PER	22.32	18131648	18.13
INDENO(123CD)	23.17	4797876	31.67

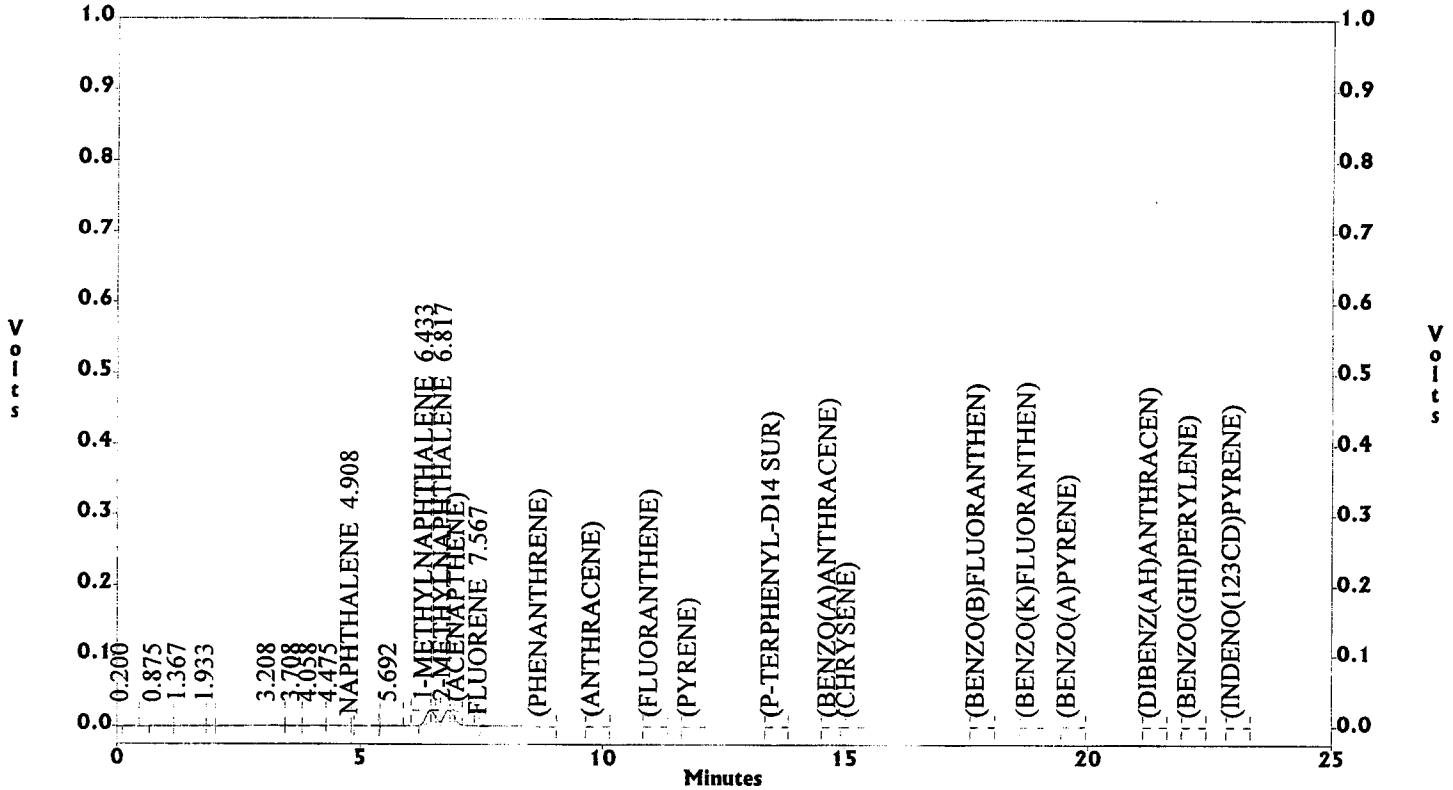
HPLC 1

File : c:\ezchromb\chrom\1227hp3.002
Method : c:\ezchromb\methods\lc1\13ph1204.met
Sample ID : .5 1,2m-naph
Acquired : Dec 27, 2000 06:00:06
Printed : Jan 05, 2001 14:09:10
User : System

c:\ezchromb\chrom\1227hp3.002 -- Channel A



c:\ezchromb\chrom\1227hp3.002 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\1227hp3.002
Method : c:\ezchromb\methods\lc1\l3ph1204.met
Sample ID : .5 1,2m-naph
Acquired : Dec 27, 2000 06:00:06
Printed : Jan 05, 2001 14:09:10
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	5.02	0	0.00
ACENAPHTYLENE	5.52	179	0.14
1-METHYLNAPHT	6.33	553	0.54
2-METHYLNAPHT	6.71	850	0.52
ACENAPTHENE	7.08	0	0.00
FLUORENE	7.60	0	0.00
PHENANTHRENE	8.70	0	0.00
ANTHRACENE	9.70	0	0.00
FLUORANTHENE	11.02	0	0.00
PYRENE	11.80	0	0.00
P-TERPHENYL-D	13.50	0	0.00
BENZO(A)ANTHR	14.50	0	0.00
CHRYSENE	15.10	0	0.00
BENZO(B)FLUOR	17.55	0	0.00
BENZO(K)FLOUR	18.59	0	0.00
BENZO(A)PYREN	19.51	0	0.00
DIBENZ(AH)ANT	21.10	0	0.00
BENZO(GHI)PER	22.08	0	0.00
INDENO(123CD)	22.90	0	0.00

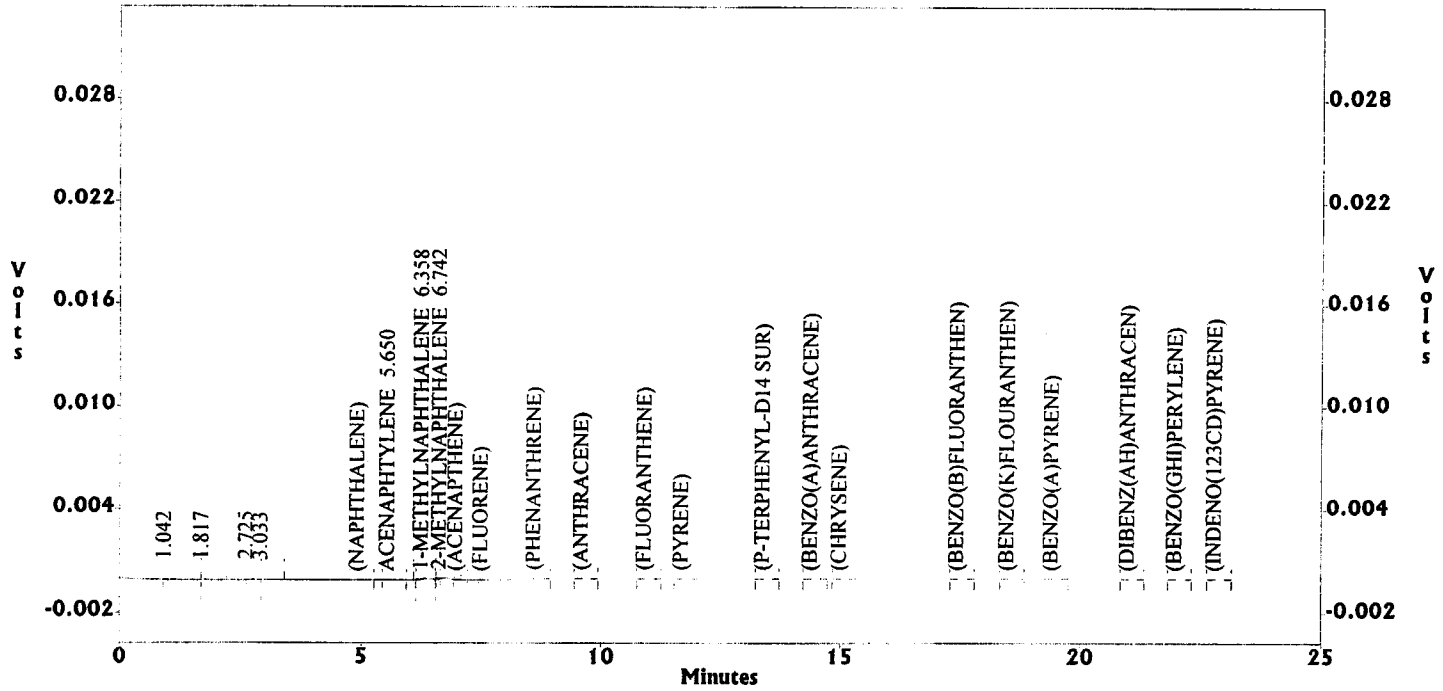
Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	4.91	4217	0.04
1-METHYLNAPHT	6.43	220126	0.49
2-METHYLNAPHT	6.82	223839	0.43
ACENAPTHENE	7.10	0	0.00
FLUORENE	7.57	2703	0.06
PHENANTHRENE	8.80	0	0.00
ANTHRACENE	9.90	0	0.00
FLUORANTHENE	11.10	0	0.00
PYRENE	11.90	0	0.00
P-TERPHENYL-D	13.60	0	0.00
BENZO(A)ANTHR	14.78	0	0.00
CHRYSENE	15.17	0	0.00
BENZO(B)FLUOR	17.83	0	0.00
BENZO(K)FLUOR	18.86	0	0.00
BENZO(A)PYREN	19.70	0	0.00
DIBENZ(AH)ANT	21.39	0	0.00
BENZO(GHI)PER	22.19	0	0.00
INDENO(123CD)	23.09	0	0.00

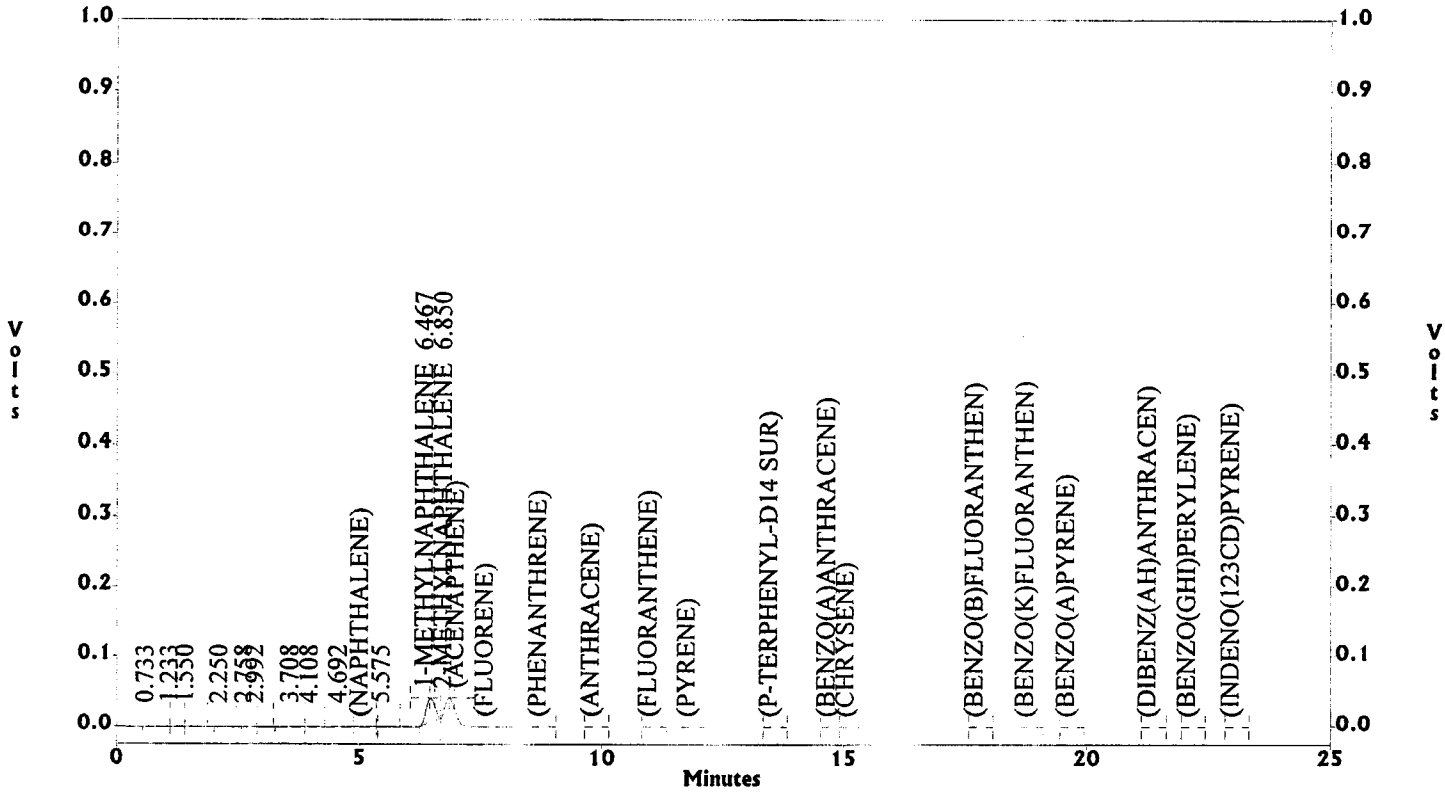
HPLC 1

File : c:\ezchromb\chrom\1227hp3.003
Method : c:\ezchromb\methods\lc1\l3ph1204.met
Sample ID : 1.0 1,2m-naph
Acquired : Dec 27, 2000 06:11:10
Printed : Jan 05, 2001 14:09:12
User : System

c:\ezchromb\chrom\1227hp3.003 -- Channel A



c:\ezchromb\chrom\1227hp3.003 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\1227hp3.003
Method : c:\ezchromb\methods\lc1\l3ph1204.met
Sample ID : 1.0 1,2m-naph
Acquired : Dec 27, 2000 06:11:10
Printed : Jan 05, 2001 14:09:12
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	5.02	0	0.00
ACENAPHTYLENE	5.65	240	0.19
1-METHYLNAPHT	6.36	996	0.97
2-METHYLNAPHT	6.74	1618	1.00
ACENAPTHENE	7.08	0	0.00
FLUORENE	7.60	0	0.00
PHENANTHRENE	8.70	0	0.00
ANTHRACENE	9.70	0	0.00
FLUORANTHENE	11.02	0	0.00
PYRENE	11.80	0	0.00
P-TERPHENYL-D	13.50	0	0.00
BENZO(A)ANTHR	14.50	0	0.00
CHRYSENE	15.10	0	0.00
BENZO(B)FLUOR	17.55	0	0.00
BENZO(K)FLOUR	18.59	0	0.00
BENZO(A)PYREN	19.51	0	0.00
DIBENZ(AH)ANT	21.10	0	0.00
BENZO(GHI)PER	22.08	0	0.00
INDENO(123CD)	22.90	0	0.00

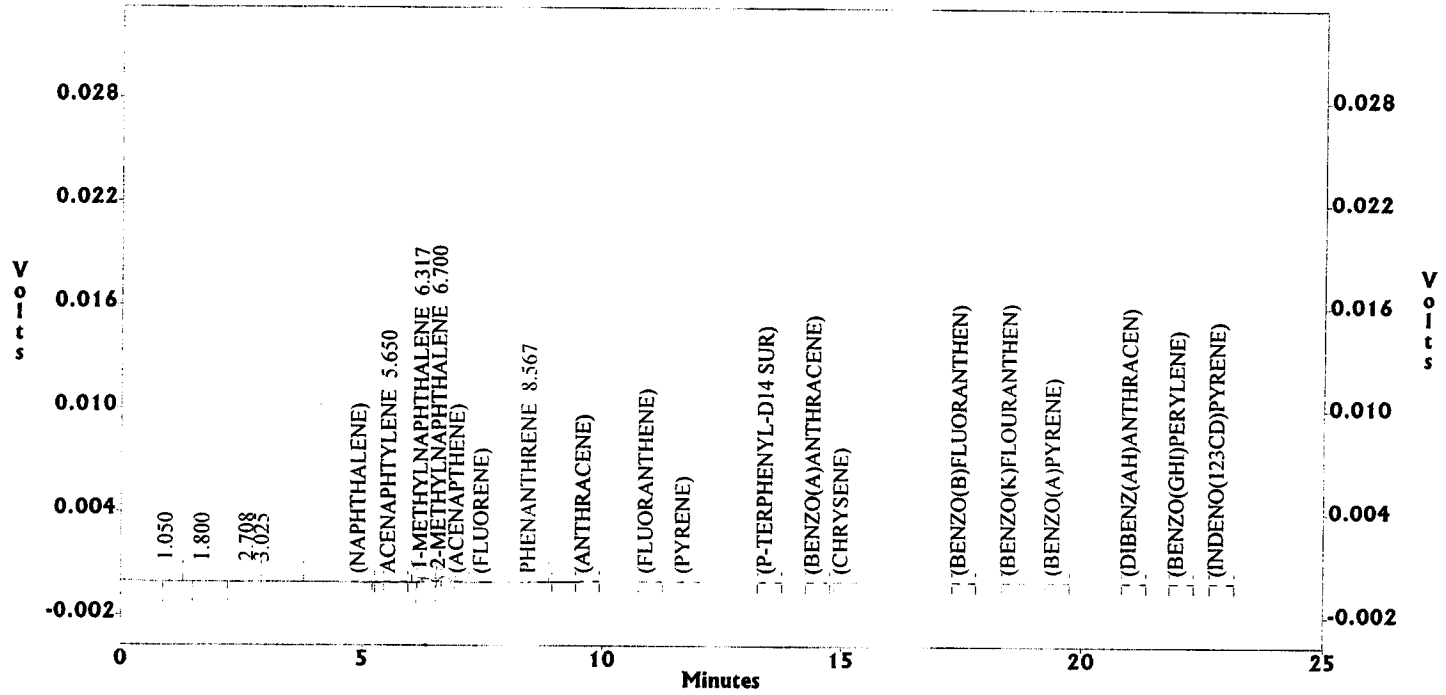
Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	5.13	0	0.00
1-METHYLNAPHT	6.47	424251	0.99
2-METHYLNAPHT	6.85	428576	0.92
ACENAPTHENE	7.10	0	0.00
FLUORENE	7.70	0	0.00
PHENANTHRENE	8.80	0	0.00
ANTHRACENE	9.90	0	0.00
FLUORANTHENE	11.10	0	0.00
PYRENE	11.90	0	0.00
P-TERPHENYL-D	13.60	0	0.00
BENZO(A)ANTHR	14.78	0	0.00
CHRYSENE	15.17	0	0.00
BENZO(B)FLUOR	17.83	0	0.00
BENZO(K)FLUOR	18.86	0	0.00
BENZO(A)PYREN	19.70	0	0.00
DIBENZ(AH)ANT	21.39	0	0.00
BENZO(GHI)PER	22.19	0	0.00
INDENO(123CD)	23.09	0	0.00

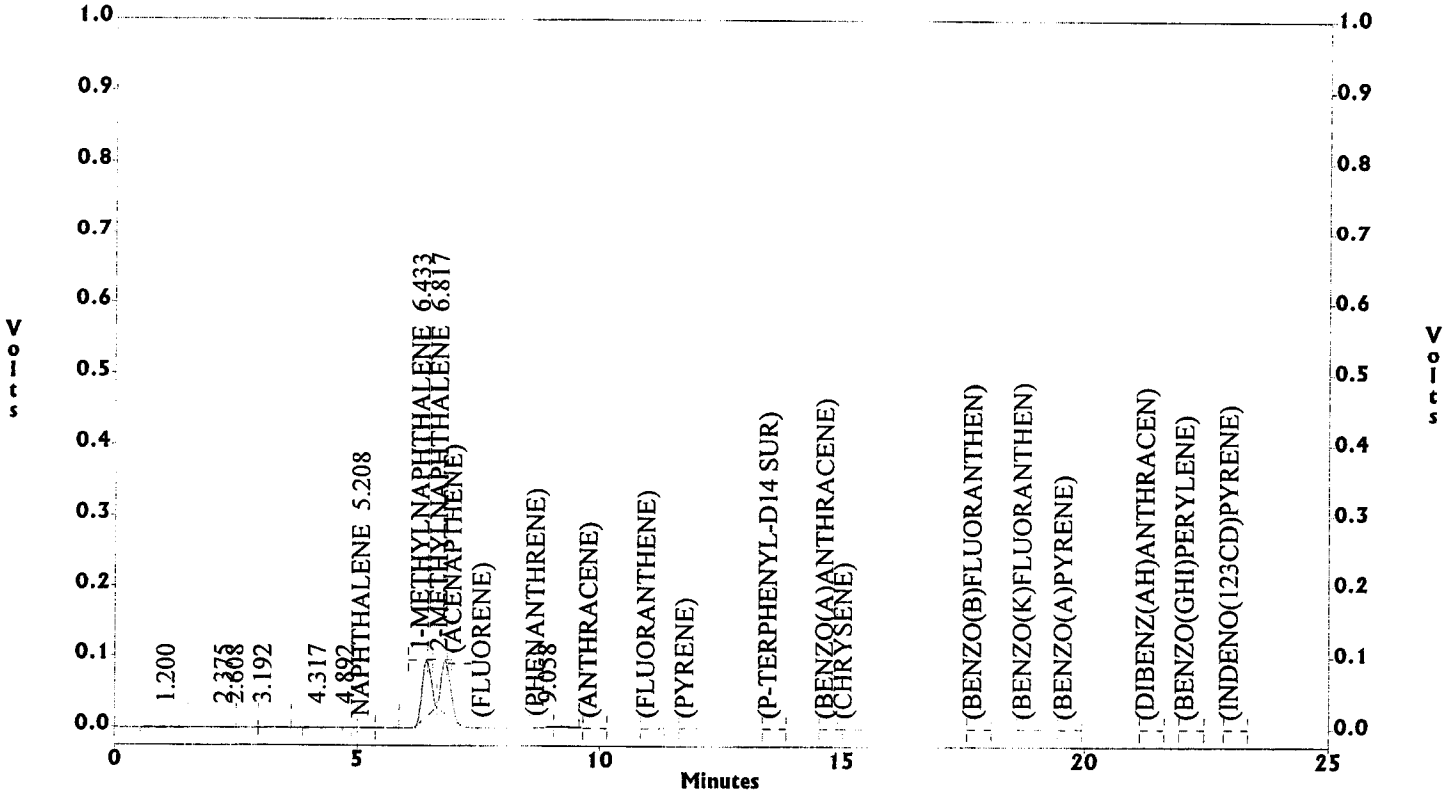
HPLC 1

File : c:\ezchromb\chrom\1227hp3.004
Method : c:\ezchromb\methods\lc1\l3ph1204.met
Sample ID : 2.5 1,2m-naph
Acquired : Dec 27, 2000 06:21:51
Printed : Jan 05, 2001 14:09:14
User : System

c:\ezchromb\chrom\1227hp3.004 -- Channel A



c:\ezchromb\chrom\1227hp3.004 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\1227hp3.004
Method : c:\ezchromb\methods\lc1\l3ph1204.met
Sample ID : 2.5 1,2m-naph
Acquired : Dec 27, 2000 06:21:51
Printed : Jan 05, 2001 14:09:14
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	5.02	0	0.00
ACENAPHTYLENE	5.65	589	0.46
1-METHYLNAPHT	6.32	2355	2.30
2-METHYLNAPHT	6.70	3743	2.31
ACENAPTHENE	7.08	0	0.00
FLUORENE	7.60	0	0.00
PHENANTHRENE	8.57	243	0.01
ANTHRACENE	9.70	0	0.00
FLUORANTHENE	11.02	0	0.00
PYRENE	11.80	0	0.00
P-TERPHENYL-D	13.50	0	0.00
BENZO(A)ANTHR	14.50	0	0.00
CHRYSENE	15.10	0	0.00
BENZO(B)FLUOR	17.55	0	0.00
BENZO(K)FLOUR	18.59	0	0.00
BENZO(A)PYREN	19.51	0	0.00
DIBENZ(AH)ANT	21.10	0	0.00
BENZO(GHI)PER	22.08	0	0.00
INDENO(123CD)	22.90	0	0.00

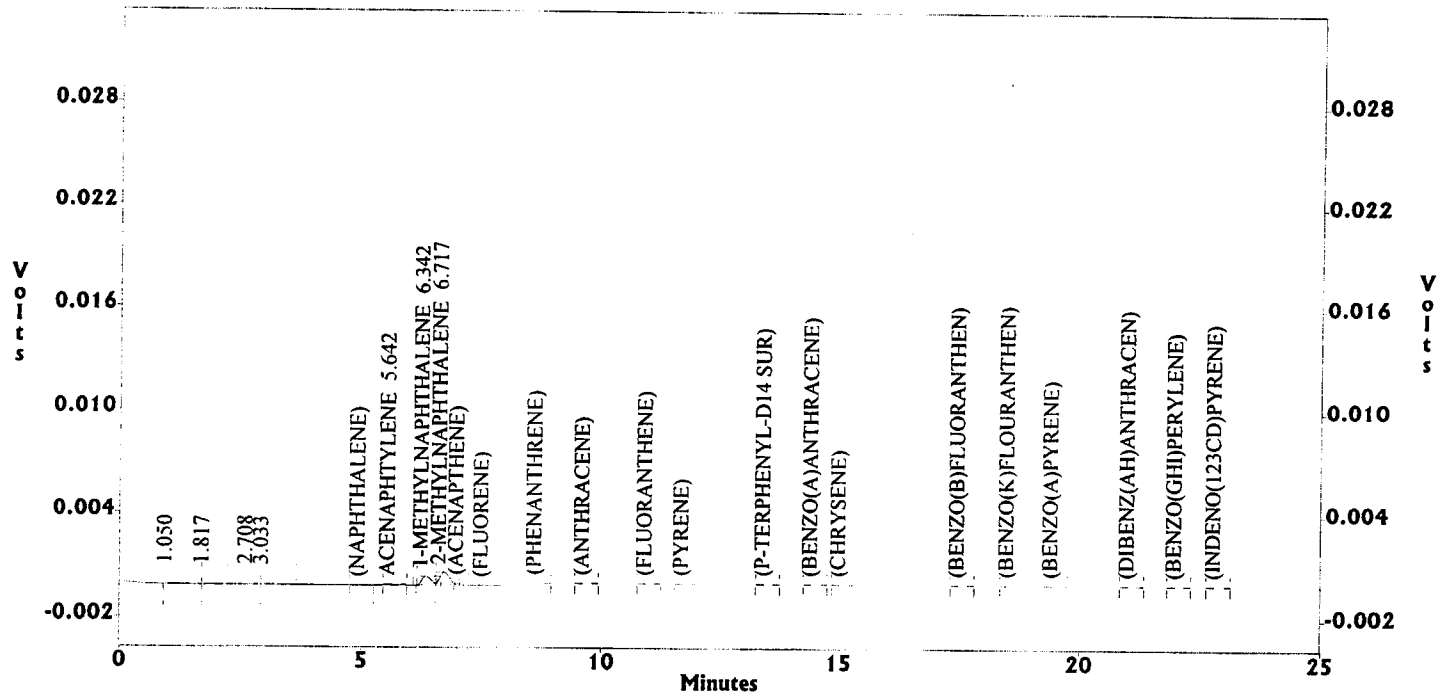
Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	5.21	10681	0.06
1-METHYLNAPHT	6.43	984159	2.36
2-METHYLNAPHT	6.82	993612	2.29
ACENAPTHENE	7.10	0	0.00
FLUORENE	7.70	0	0.00
PHENANTHRENE	8.80	0	0.00
ANTHRACENE	9.90	0	0.00
FLUORANTHENE	11.10	0	0.00
PYRENE	11.90	0	0.00
P-TERPHENYL-D	13.60	0	0.00
BENZO(A)ANTHR	14.78	0	0.00
CHRYSENE	15.17	0	0.00
BENZO(B)FLUOR	17.83	0	0.00
BENZO(K)FLUOR	18.86	0	0.00
BENZO(A)PYREN	19.70	0	0.00
DIBENZ(AH)ANT	21.39	0	0.00
BENZO(GHI)PER	22.19	0	0.00
INDENO(123CD)	23.09	0	0.00

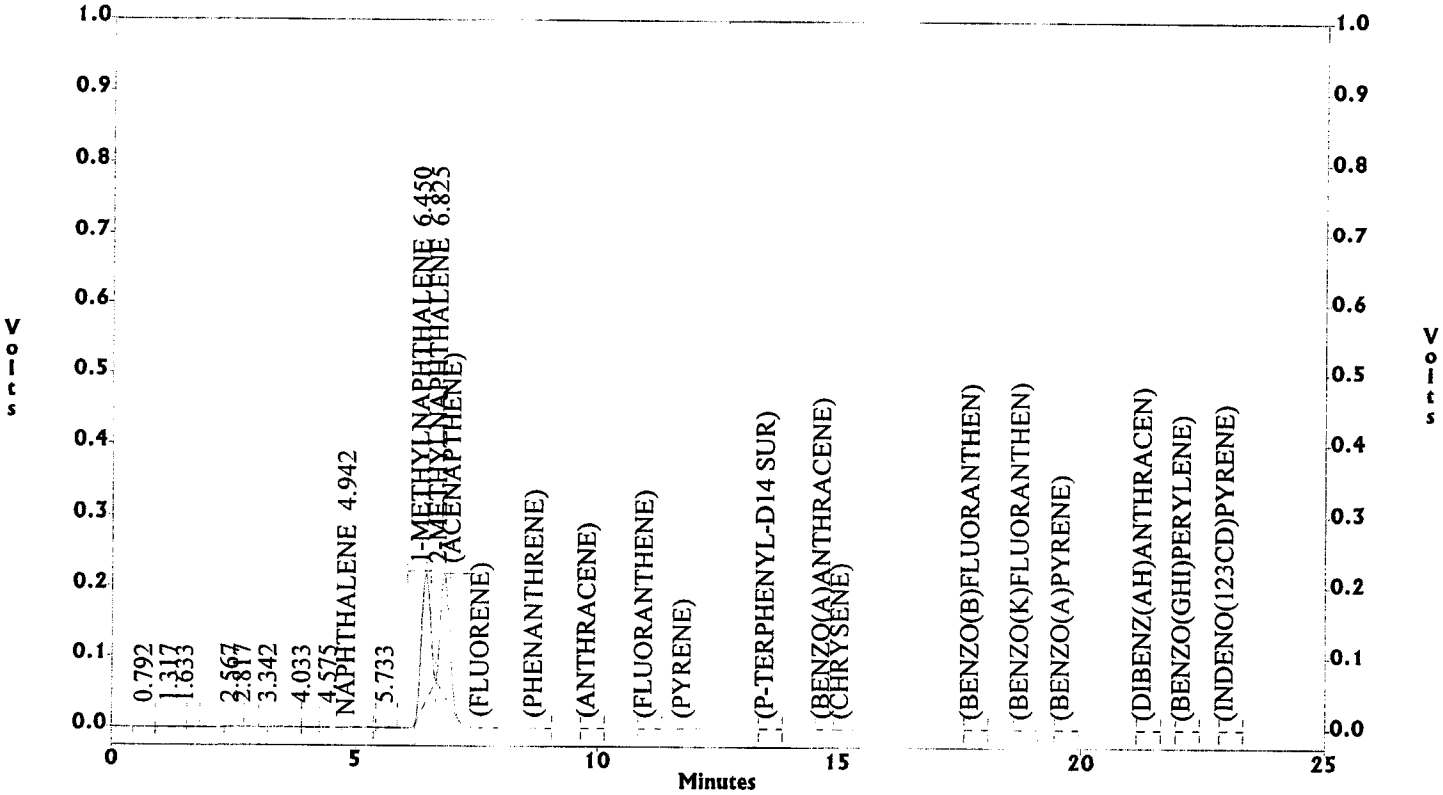
HPLC 1

File : c:\ezchromb\chrom\1227hp3.005
Method : c:\ezchromb\methods\lc1\13ph1204.met
Sample ID : 5.0 1,2m-naph
Acquired : Dec 27, 2000 06:34:44
Printed : Jan 05, 2001 14:09:16
User : System

c:\ezchromb\chrom\1227hp3.005 -- Channel A



c:\ezchromb\chrom\1227hp3.005 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\1227hp3.005
Method : c:\ezchromb\methods\lc1\l3ph1204.met
Sample ID : 5.0 1,2m-naph
Acquired : Dec 27, 2000 06:34:44
Printed : Jan 05, 2001 14:09:16
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	5.02	0	0.00
ACENAPHTYLENE	5.64	1211	0.94
1-METHYLNAPHT	6.34	5495	5.37
2-METHYLNAPHT	6.72	8739	5.38
ACENAPTHENE	7.08	0	0.00
FLUORENE	7.60	0	0.00
PHENANTHRENE	8.70	0	0.00
ANTHRACENE	9.70	0	0.00
FLUORANTHENE	11.02	0	0.00
PYRENE	11.80	0	0.00
P-TERPHENYL-D	13.50	0	0.00
BENZO(A)ANTHR	14.50	0	0.00
CHRYSENE	15.10	0	0.00
BENZO(B)FLUOR	17.55	0	0.00
BENZO(K)FLOUR	18.59	0	0.00
BENZO(A)PYREN	19.51	0	0.00
DIBENZ(AH)ANT	21.10	0	0.00
BENZO(GHI)PER	22.08	0	0.00
INDENO(123CD)	22.90	0	0.00

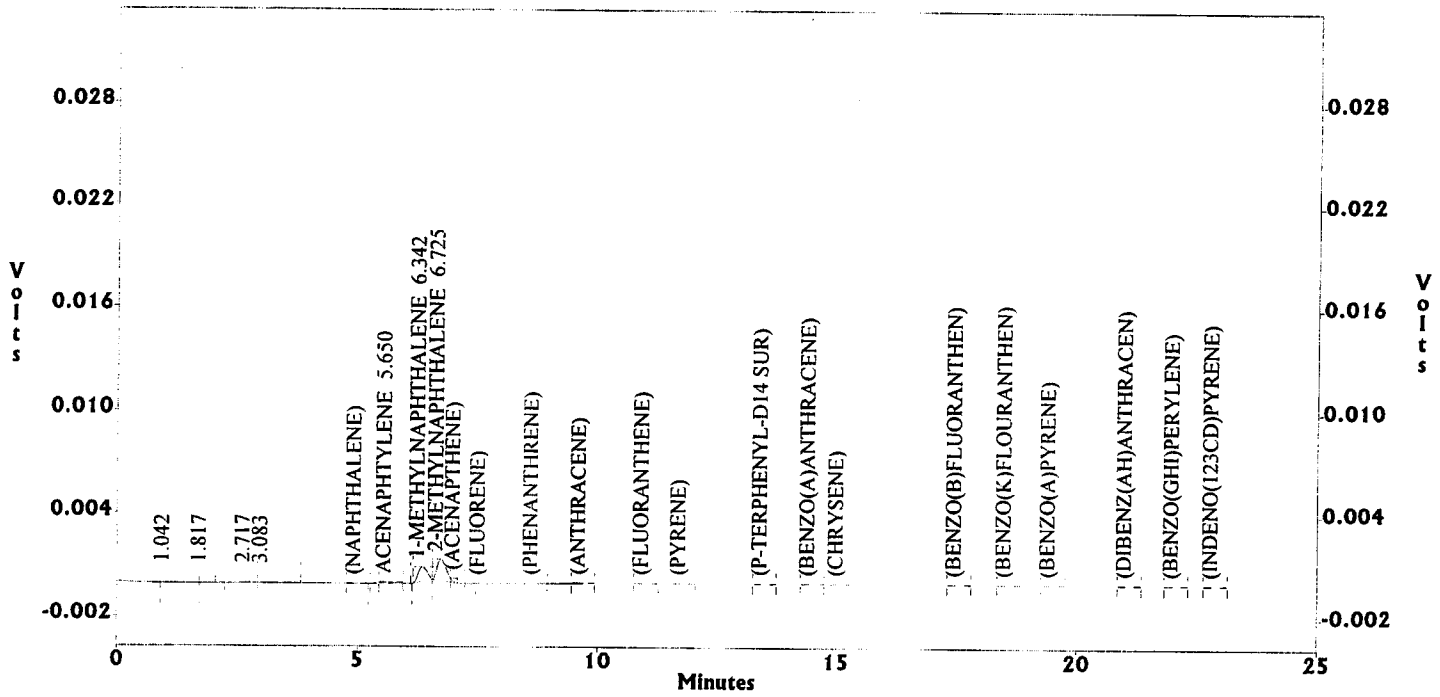
Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	4.94	4108	0.04
1-METHYLNAPHT	6.45	2276862	5.52
2-METHYLNAPHT	6.82	2296318	5.44
ACENAPTHENE	7.10	0	0.00
FLUORENE	7.70	0	0.00
PHENANTHRENE	8.80	0	0.00
ANTHRACENE	9.90	0	0.00
FLUORANTHENE	11.10	0	0.00
PYRENE	11.90	0	0.00
P-TERPHENYL-D	13.60	0	0.00
BENZO(A)ANTHR	14.78	0	0.00
CHRYSENE	15.17	0	0.00
BENZO(B)FLUOR	17.83	0	0.00
BENZO(K)FLUOR	18.86	0	0.00
BENZO(A)PYREN	19.70	0	0.00
DIBENZ(AH)ANT	21.39	0	0.00
BENZO(GHI)PER	22.19	0	0.00
INDENO(123CD)	23.09	0	0.00

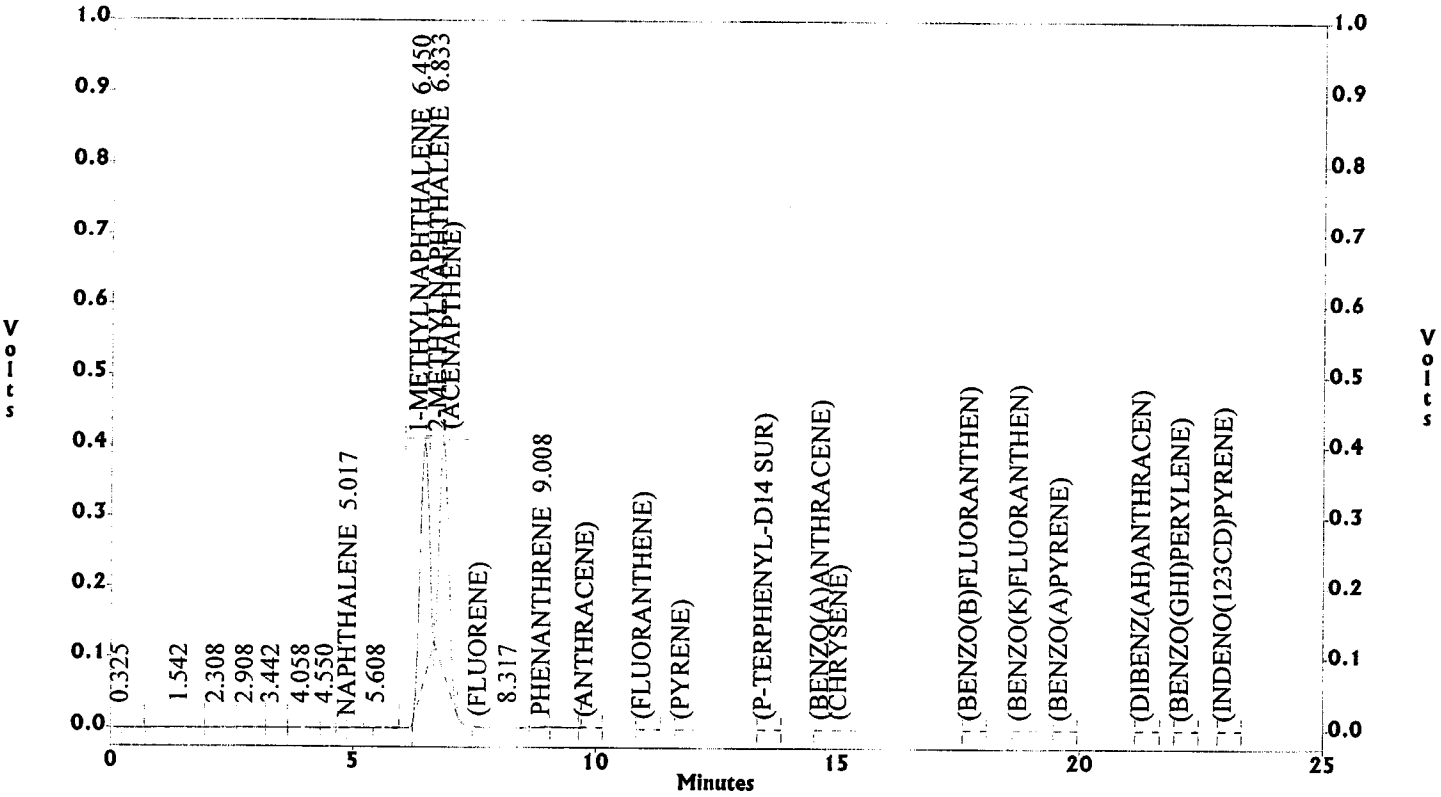
HPLC 1

File : c:\ezchromb\chrom\1227hp3.006
Method : c:\ezchromb\methods\lcl\13ph1204.met
Sample ID : 10.0 1,2m-naph
Acquired : Dec 27, 2000 06:45:30
Printed : Jan 05, 2001 14:09:17
User : System

c:\ezchromb\chrom\1227hp3.006 -- Channel A



c:\ezchromb\chrom\1227hp3.006 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\1227hp3.006
Method : c:\ezchromb\methods\lcl\l3phl204.met
Sample ID : 10.0 1,2m-naph
Acquired : Dec 27, 2000 06:45:30
Printed : Jan 05, 2001 14:09:17
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	5.02	0	0.00
ACENAPHTYLENE	5.65	2188	1.69
1-METHYLNAPHT	6.34	10179	9.95
2-METHYLNAPHT	6.72	16172	9.96
ACENAPTHENE	7.08	0	0.00
FLUORENE	7.60	0	0.00
PHENANTHRENE	8.70	0	0.00
ANTHRACENE	9.70	0	0.00
FLUORANTHENE	11.02	0	0.00
PYRENE	11.80	0	0.00
P-TERPHENYL-D	13.50	0	0.00
BENZO(A)ANTHR	14.50	0	0.00
CHRYSENE	15.10	0	0.00
BENZO(B)FLUOR	17.55	0	0.00
BENZO(K)FLOUR	18.59	0	0.00
BENZO(A)PYREN	19.51	0	0.00
DIBENZ(AH)ANT	21.10	0	0.00
BENZO(GHI)PER	22.08	0	0.00
INDENO(123CD)	22.90	0	0.00

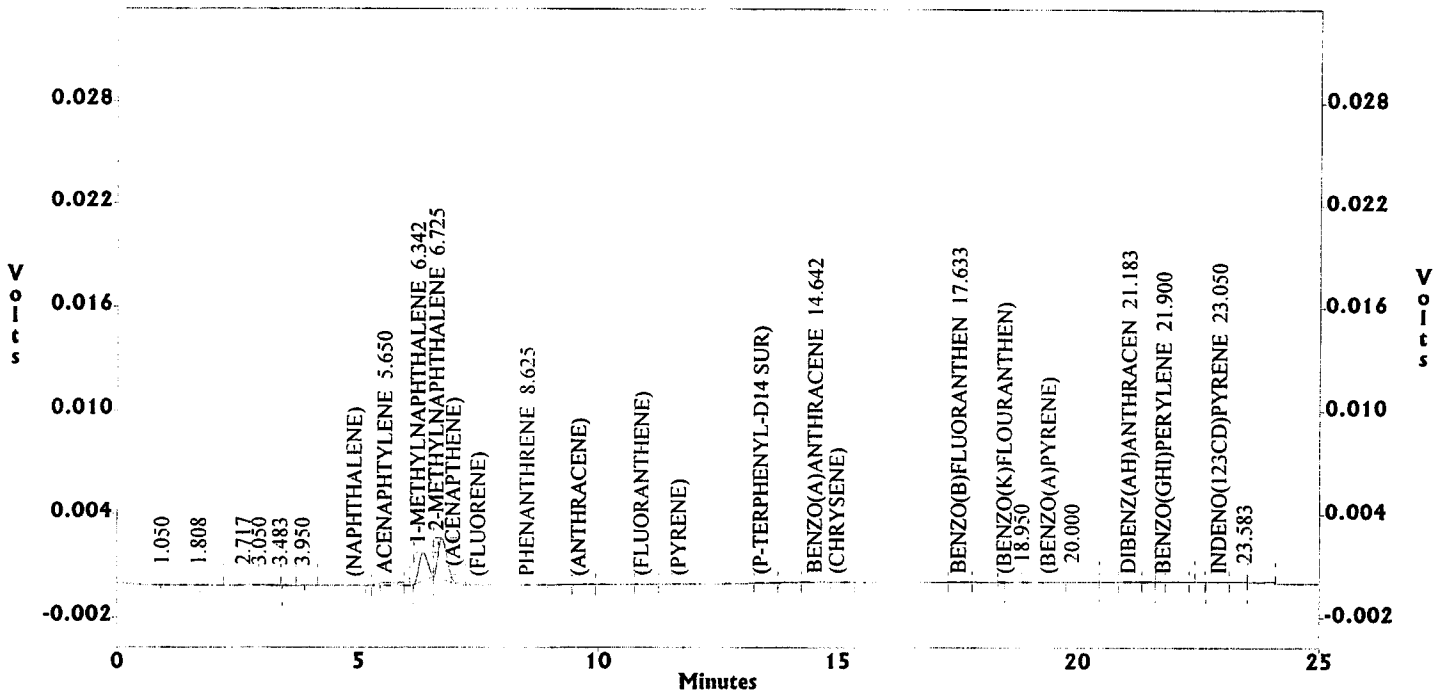
Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	5.02	6597	0.05
1-METHYLNAPHT	6.45	4196990	10.22
2-METHYLNAPHT	6.83	4276115	10.22
ACENAPTHENE	7.10	0	0.00
FLUORENE	7.70	0	0.00
PHENANTHRENE	9.01	45363	0.14
ANTHRACENE	9.90	0	0.00
FLUORANTHENE	11.10	0	0.00
PYRENE	11.90	0	0.00
P-TERPHENYL-D	13.60	0	0.00
BENZO(A)ANTHR	14.78	0	0.00
CHRYSENE	15.17	0	0.00
BENZO(B)FLUOR	17.83	0	0.00
BENZO(K)FLUOR	18.86	0	0.00
BENZO(A)PYREN	19.70	0	0.00
DIBENZ(AH)ANT	21.39	0	0.00
BENZO(GHI)PER	22.19	0	0.00
INDENO(123CD)	23.09	0	0.00

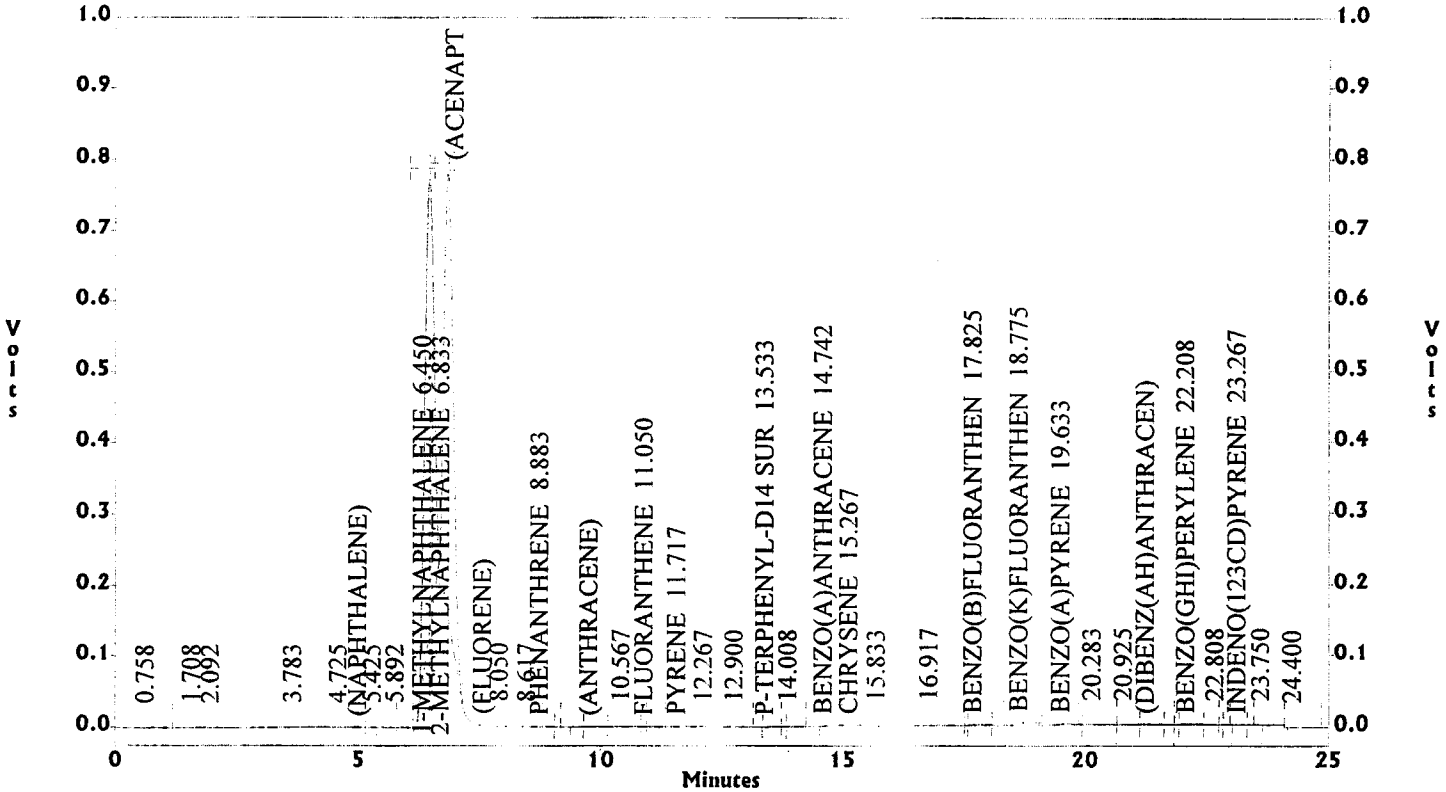
HPLC 1

File : c:\ezchromb\chrom\1227hp3.007
Method : c:\ezchromb\methods\lc1\l3ph1204.met
Sample ID : 20.0 1,2m-naph
Acquired : Dec 27, 2000 06:58:03
Printed : Jan 05, 2001 14:09:20
User : System

c:\ezchromb\chrom\1227hp3.007 -- Channel A



c:\ezchromb\chrom\1227hp3.007 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\1227hp3.007
Method : c:\ezchromb\methods\lc1\l3ph1204.met
Sample ID : 20.0 1,2m-naph
Acquired : Dec 27, 2000 06:58:03
Printed : Jan 05, 2001 14:09:20
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	5.02	0	0.00
ACENAPHTYLENE	5.65	4091	3.17
1-METHYLNAPHT	6.34	19537	19.10
2-METHYLNAPHT	6.72	31151	19.19
ACENAPTHENE	7.08	0	0.00
FLUORENE	7.60	0	0.00
PHENANTHRENE	8.63	149	0.01
ANTHRACENE	9.70	0	0.00
FLUORANTHENE	11.02	0	0.00
PYRENE	11.80	0	0.00
P-TERPHENYL-D	13.50	0	0.00
BENZO(A)ANTHR	14.64	5772	0.46
CHRYSENE	15.10	0	0.00
BENZO(B)FLUOR	17.63	1392	0.09
BENZO(K)FLOUR	18.59	0	0.00
BENZO(A)PYREN	19.51	0	0.00
DIBENZ(AH)ANT	21.18	319	0.13
BENZO(GHI)PER	21.90	225	0.06
INDENO(123CD)	23.05	207	0.05

Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	5.13	0	0.00
1-METHYLNAPHT	6.45	8094628	19.76
2-METHYLNAPHT	6.83	8238449	19.80
ACENAPTHENE	7.10	0	0.00
FLUORENE	7.70	0	0.00
PHENANTHRENE	8.88	3782	0.00
ANTHRACENE	9.90	0	0.00
FLUORANTHENE	11.05	3545	0.00
PYRENE	11.72	28662	0.04
P-TERPHENYL-D	13.53	5453	0.00
BENZO(A)ANTHR	14.74	20194	0.03
CHRYSENE	15.27	30826	0.02
BENZO(B)FLUOR	17.83	20361	0.00
BENZO(K)FLUOR	18.77	50180	0.00
BENZO(A)PYREN	19.63	19488	0.03
DIBENZ(AH)ANT	21.39	0	0.00
BENZO(GHI)PER	22.21	10539	0.00
INDENO(123CD)	23.27	1851	0.02

7C

8310 PAH CONTINUING CALIBRATION CHECK

Lab Name: Test America **Calibration Date:** 12/04/00

SDG # 220787 **Cont. Calib. Date:** 1/4/00

Instrument ID: HPLC 3 **Lab File ID:** 0104HP3.020

UV CHANNEL

COMPOUND	known	actual		%D	MAX %D
Napthalene	1.00	1.15		14.0	15.0
Acenapthylene	1.00	1.28		24.6	15.0
1-Methyl-naphthalene	1.00	0.84		17.4	15.0
2-Methyl-naphthalene	1.00	0.93		7.3	15.0
Acenapthene	1.00	0.64		43.9	15.0
Flourene	1.00	1.06		5.8	15.0
Phenanthrene	1.00	1.06		5.8	15.0
Anthracene	1.00	1.06		5.8	15.0
Flouranthene	1.00	1.08		7.7	15.0
Pyrene	1.00	1.01		1.0	15.0
Benzo(a)anthracene	1.00	1.05		4.9	15.0
Chrysene	1.00	1.23		20.6	15.0
Benzo(b)flouranthene	1.00	0.99		1.0	15.0
Benzo(k)flouranthene	1.00	1.03		3.0	15.0
Benzo(a)pyrene	1.00	1.01		1.0	15.0
Dibenz(ah)anthracene	1.00	1.26		23.0	15.0
Benzo(ghi)Perylene	1.00	1.02		2.0	15.0
Indeno(123cd)pyrene	1.00	1.00		0.0	15.0

AVERAGE: 10.48

FORM VII SV 3/90

7C

8310 PAH CONTINUING CALIBRATION CHECK

Lab Name: Test America **Calibration Date:** 12/04/00

SDG # 220787 **Cont. Calib. Date:** 1/4/00

Instrument ID: HPLC 3 **Lab File ID:** 0104HP3.020

FLOURECENCE CHANNEL

COMPOUND	known	actual		%D	MAX %D
Napthalene	1.00	0.95		5.1	15.0
1-Methyl-naphthalene	1.00	0.95		5.1	15.0
2-Methyl-naphthalene	1.00	0.73		31.2	15.0
Acenapthene	1.00	0.87		13.9	15.0
Flourene	1.00	0.89		11.6	15.0
Phenanthrene	1.00	1.13		12.2	15.0
Anthracene	1.00	0.82		19.8	15.0
Flouranthene	1.00	1.14		13.1	15.0
Pyrene	1.00	1.01		1.0	15.0
Benzo(a)anthracene	1.00	1.09		8.6	15.0
Chrysene	1.00	1.09		8.6	15.0
Benzo(b)flouranthene	1.00	0.99		1.0	15.0
Benzo(k)flouranthene	1.00	1.15		14.0	15.0
Benzo(a)pyrene	1.00	0.87		13.9	15.0
Dibenz(ah)anthracene	1.00	1.00		0.0	15.0
Benzo(ghi)Perylene	1.00	0.92		8.3	15.0
Indeno(123cd)pyrene	1.00	1.46		37.4	15.0

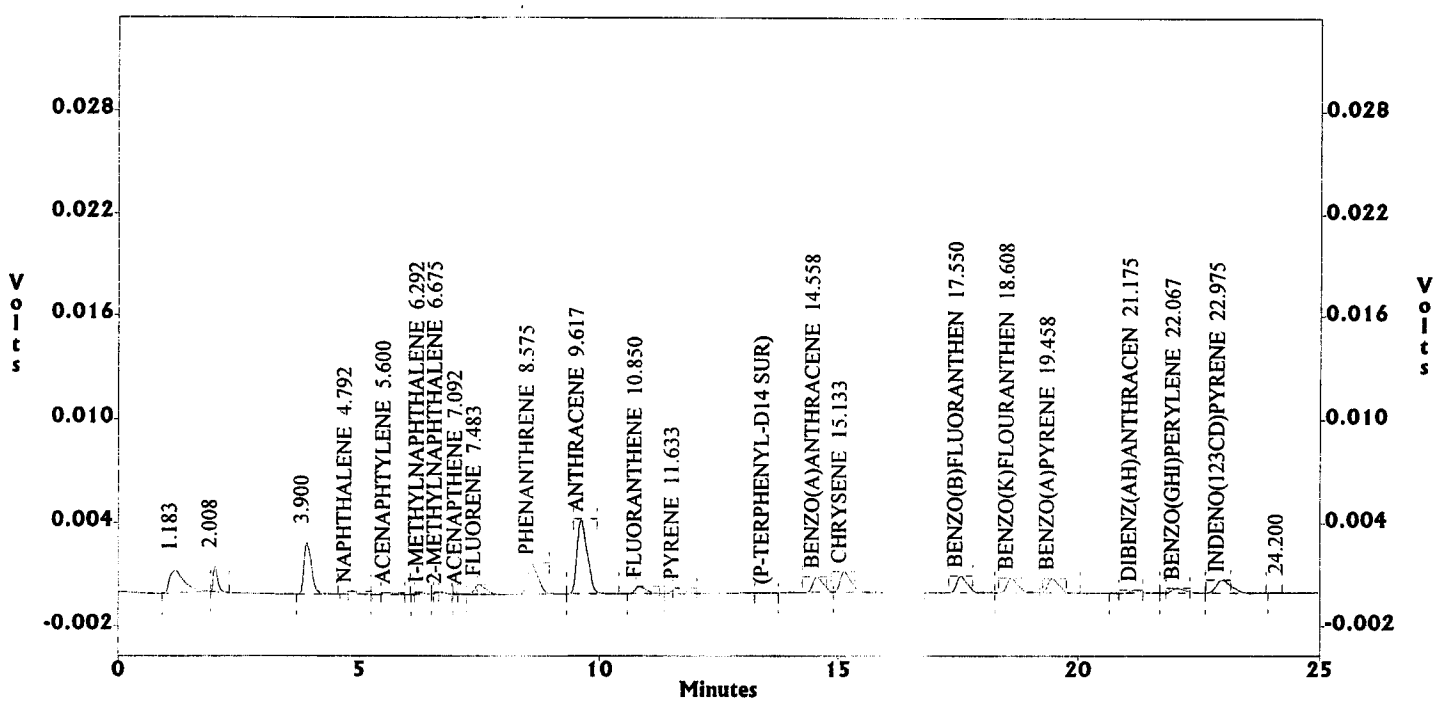
AVERAGE: 12.05

FORM VII SV 3/90

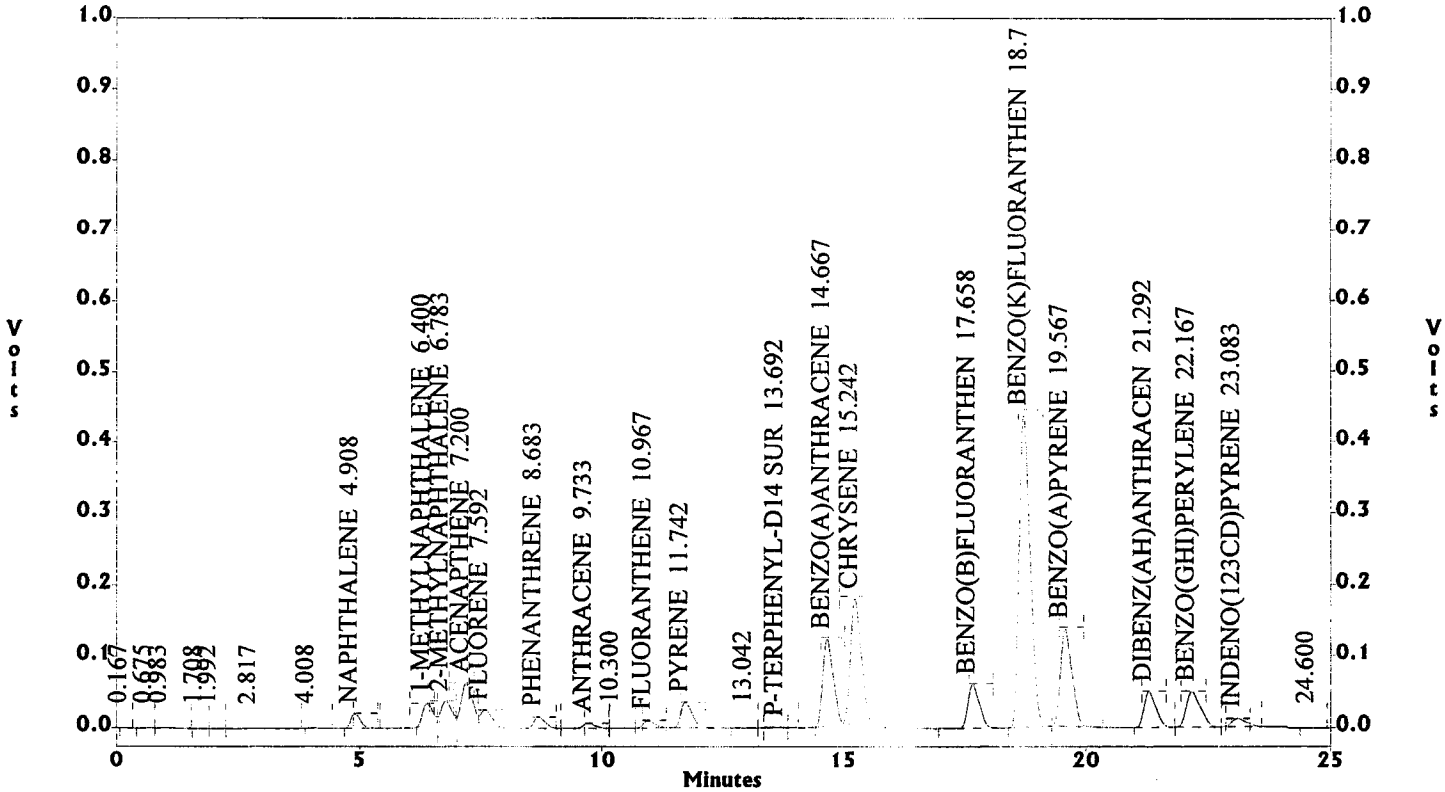
HPLC 1

File : c:\ezchromb\chrom\0104hp3.020
Method : c:\ezchromb\methods\lc1\l3ph1204.met
Sample ID : 1.0ppm(5-w-sn-84-2)
Acquired : Jan 04, 2001 17:29:20
Printed : Jan 05, 2001 07:40:20
User : System

c:\ezchromb\chrom\0104hp3.020 -- Channel A



c:\ezchromb\chrom\0104hp3.020 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\0104hp3.020
Method : c:\ezchromb\methods\lc1\l3ph1204.met
Sample ID : 1.0ppm(5-w-sn-84-2)
Acquired : Jan 04, 2001 17:29:20
Printed : Jan 05, 2001 07:40:20
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	4.79	2244	1.15
ACENAPHTYLENE	5.60	1651	1.28
1-METHYLNAPHT	6.29	861	0.84
2-METHYLNAPHT	6.68	1512	0.93
ACENAPTHENE	7.09	353	0.64
FLUORENE	7.48	8509	1.06
PHENANTHRENE	8.57	27244	1.06
ANTHRACENE	9.62	64486	1.06
FLUORANTHENE	10.85	6296	1.08
PYRENE	11.63	5134	1.01
P-TERPHENYL-D	13.50	0	0.00
BENZO(A)ANTHR	14.56	13053	1.05
CHRYSENE	15.13	17749	1.23
BENZO(B)FLUOR	17.55	14666	0.99
BENZO(K)FLOUR	18.61	12955	1.03
BENZO(A)PYREN	19.46	12890	1.01
DIBENZ(AH)ANT	21.17	3199	1.26
BENZO(GHI)PER	22.07	5270	1.02
INDENO(123CD)	22.98	15684	1.00

Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	4.91	267088	0.95
1-METHYLNAPHT	6.40	409741	0.95
2-METHYLNAPHT	6.78	347639	0.73
ACENAPTHENE	7.20	745246	0.87
FLUORENE	7.59	271265	0.89
PHENANTHRENE	8.68	241443	1.13
ANTHRACENE	9.73	116512	0.82
FLUORANTHENE	10.97	165235	1.14
PYRENE	11.74	563594	1.01
P-TERPHENYL-D	13.69	19765	0.05
BENZO(A)ANTHR	14.67	1832777	1.09
CHRYSENE	15.24	2763760	1.09
BENZO(B)FLUOR	17.66	977409	0.99
BENZO(K)FLUOR	18.72	6947634	1.15
BENZO(A)PYREN	19.57	2219997	0.87
DIBENZ(AH)ANT	21.29	821892	1.00
BENZO(GHI)PER	22.17	941037	0.92
INDENO(123CD)	23.08	219887	1.46

7C

8310 PAH CONTINUING CALIBRATION CHECK

Lab Name: Test America **Calibration Date:** 12/04/00

SDG # 220787 **Cont. Calib. Date:** 1/4/00

Instrument ID: HPLC 3 **Lab File ID:** 0104HP3.031

UV CHANNEL

COMPOUND	known	actual		%D	MAX %D
Napthalene	1.00	1.19		17.4	15.0
Acenapthylene	1.00	1.57		44.4	15.0
1-Methyl-naphthalene	1.00	0.88		12.8	15.0
2-Methyl-naphthalene	1.00	0.91		9.4	15.0
Acenapthene	1.00	0.60		50.0	15.0
Flourene	1.00	1.07		6.8	15.0
Phenanthrene	1.00	1.08		7.7	15.0
Anthracene	1.00	1.08		7.7	15.0
Flouranthene	1.00	1.09		8.6	15.0
Pyrene	1.00	1.01		1.0	15.0
Benzo(a)anthracene	1.00	1.07		6.8	15.0
Chrysene	1.00	1.27		23.8	15.0
Benzo(b)flouranthene	1.00	1.02		2.0	15.0
Benzo(k)flouranthene	1.00	1.05		4.9	15.0
Benzo(a)pyrene	1.00	1.01		1.0	15.0
Dibenz(ah)anthracene	1.00	1.28		24.6	15.0
Benzo(ghi)Perylene	1.00	1.03		3.0	15.0
Indeno(123cd)pyrene	1.00	1.01		1.0	15.0

AVERAGE: 12.92

FORM VII SV 3/90

7C

8310 PAH CONTINUING CALIBRATION CHECK

Lab Name: Test America **Calibration Date:** 12/04/00

SDG # 220787 **Cont. Calib. Date:** 1/4/00

Instrument ID: HPLC 3 **Lab File ID:** 0104HP3.031

FLOURECENCE CHANNEL

COMPOUND	known	actual		%D	MAX %D
Napthalene	1.00	1.14		13.1	15.0
1-Methyl-naphthalene	1.00	0.95		5.1	15.0
2-Methyl-naphthalene	1.00	0.78		24.7	15.0
Acenapthene	1.00	0.84		17.4	15.0
Flourene	1.00	0.97		3.0	15.0
Phenanthrene	1.00	1.27		23.8	15.0
Anthracene	1.00	1.03		3.0	15.0
Flouranthene	1.00	1.12		11.3	15.0
Pyrene	1.00	0.95		5.1	15.0
Benzo(a)anthracene	1.00	1.04		3.9	15.0
Chrysene	1.00	1.10		9.5	15.0
Benzo(b)flouranthene	1.00	1.07		6.8	15.0
Benzo(k)flouranthene	1.00	1.15		14.0	15.0
Benzo(a)pyrene	1.00	0.97		3.0	15.0
Dibenz(ah)anthracene	1.00	1.10		9.5	15.0
Benzo(ghi)Perylene	1.00	0.98		2.0	15.0
Indeno(123cd)pyrene	1.00	1.46		37.4	15.0

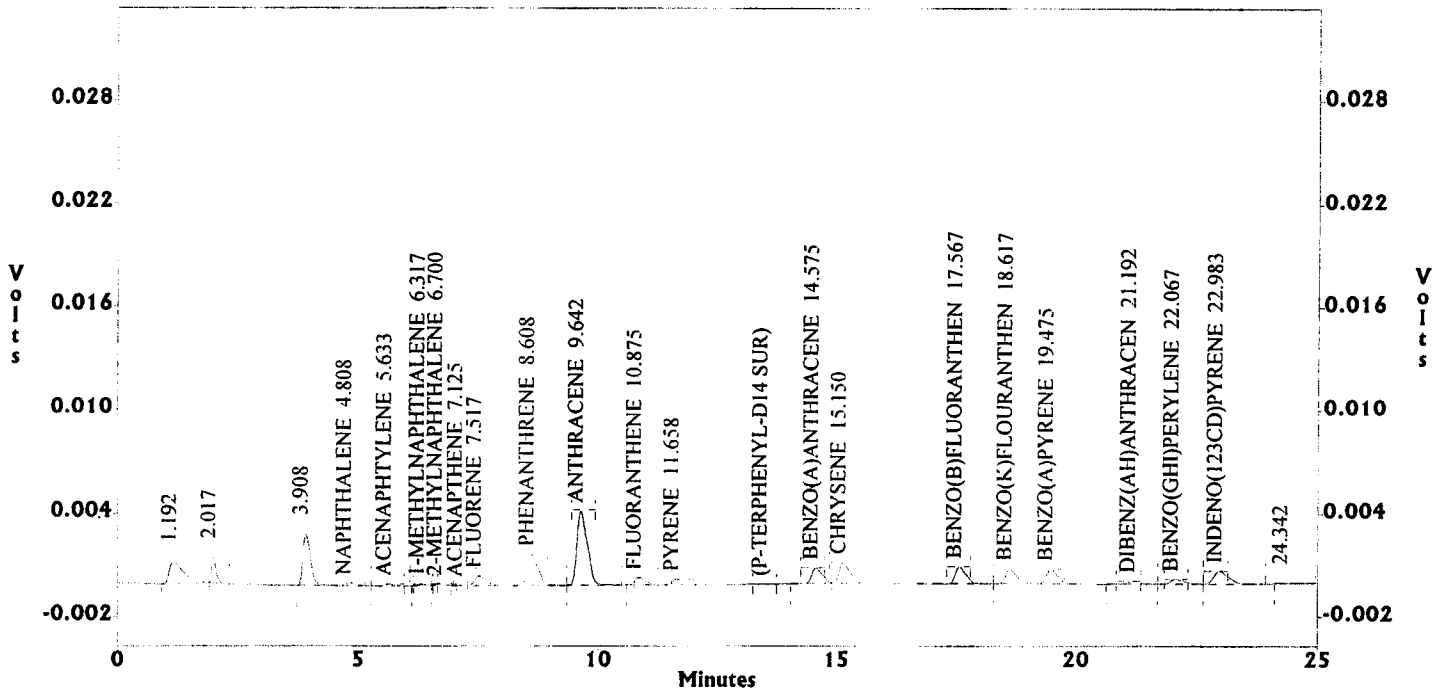
AVERAGE: 11.34

FORM VII SV 3/90

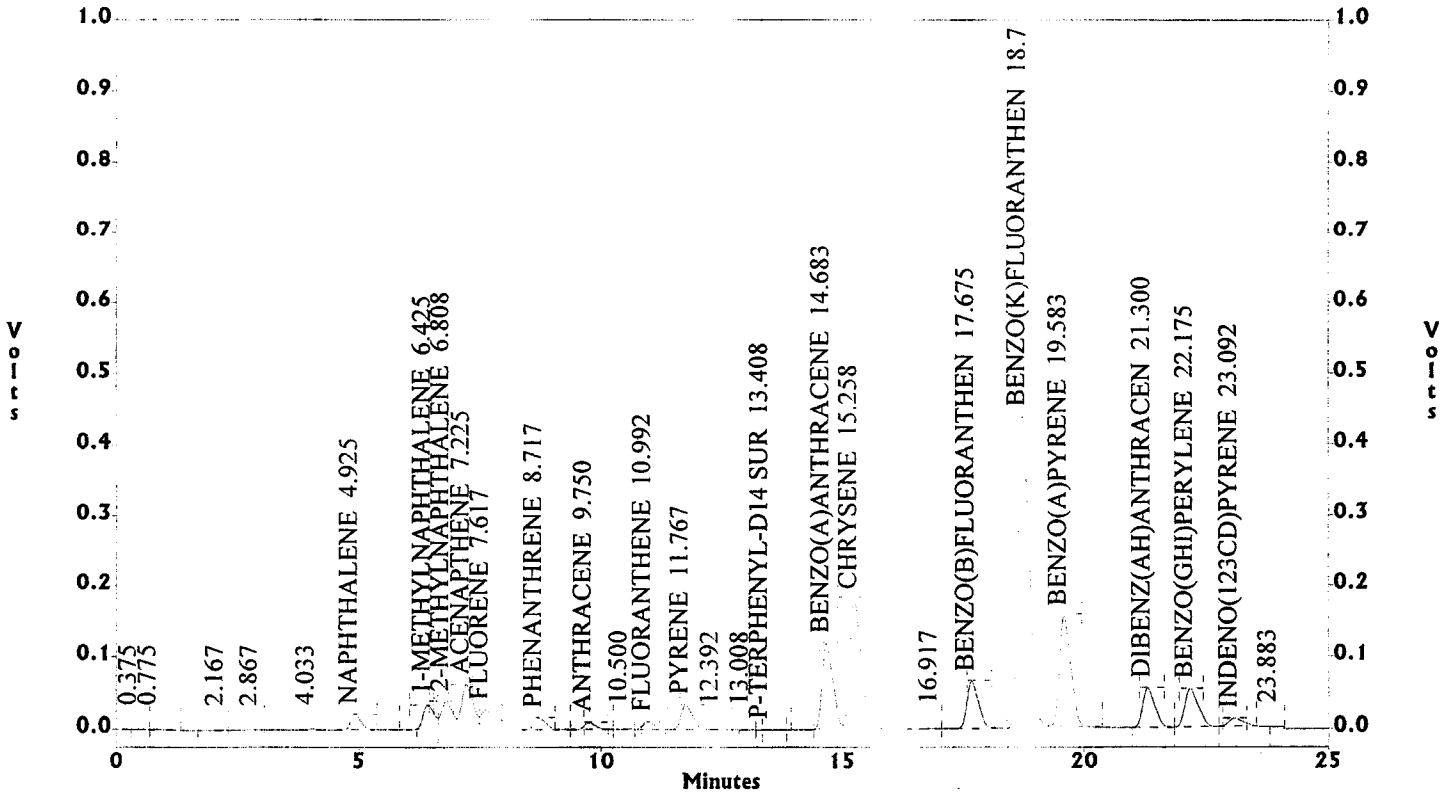
HPLC 1

File : c:\ezchromb\chrom\0104hp3.031
Method : c:\ezchromb\methods\lc1\l3phl204.met
Sample ID : 1.0ppm(5-w-sn-84-2)
Acquired : Jan 04, 2001 22:17:55
Printed : Jan 05, 2001 07:40:52
User : System

c:\ezchromb\chrom\0104hp3.031 -- Channel A



c:\ezchromb\chrom\0104hp3.031 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\0104hp3.031
Method : c:\ezchromb\methods\lc1\13ph1204.met
Sample ID : 1.0ppm(5-w-sn-84-2)
Acquired : Jan 04, 2001 22:17:55
Printed : Jan 05, 2001 07:40:53
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	4.81	2310	1.19
ACENAPHTYLENE	5.63	1639	1.27
1-METHYLNAPHT	6.32	897	0.88
2-METHYLNAPHT	6.70	1473	0.91
ACENAPTHENE	7.13	331	0.60
FLUORENE	7.52	8625	1.07
PHENANTHRENE	8.61	27603	1.08
ANTHRACENE	9.64	65368	1.08
FLUORANTHENE	10.88	6382	1.09
PYRENE	11.66	5137	1.01
P-TERPHENYL-D	13.50	0	0.00
BENZO(A)ANTHR	14.57	13260	1.07
CHRYSENE	15.15	18315	1.27
BENZO(B)FLUOR	17.57	15100	1.02
BENZO(K)FLOUR	18.62	13181	1.05
BENZO(A)PYREN	19.48	12925	1.01
DIBENZ(AH)ANT	21.19	3254	1.28
BENZO(GHI)PER	22.07	5317	1.03
INDENO(123CD)	22.98	15864	1.01

Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	4.93	320459	1.14
1-METHYLNAPHT	6.43	410333	0.95
2-METHYLNAPHT	6.81	368285	0.78
ACENAPTHENE	7.22	720330	0.84
FLUORENE	7.62	299157	0.97
PHENANTHRENE	8.72	268758	1.27
ANTHRACENE	9.75	144694	1.03
FLUORANTHENE	10.99	162738	1.12
PYRENE	11.77	529141	0.95
P-TERPHENYL-D	13.41	8048	0.00
BENZO(A)ANTHR	14.68	1756903	1.04
CHRYSENE	15.26	2780866	1.10
BENZO(B)FLUOR	17.67	1051276	1.07
BENZO(K)FLUOR	18.73	6933531	1.15
BENZO(A)PYREN	19.58	2477010	0.97
DIBENZ(AH)ANT	21.30	898354	1.10
BENZO(GHI)PER	22.17	1005334	0.98
INDENO(123CD)	23.09	219827	1.46

7C

8310 PAH CONTINUING CALIBRATION CHECK

Lab Name: Test America **Calibration Date:** 12/04/00

SDG # 220787 **Cont. Calib. Date:** 1/5/01

Instrument ID: HPLC 3 **Lab File ID:** 0104HP3.040

UV CHANNEL

COMPOUND	known	actual		%D	MAX %D
Napthalene	1.00	1.14		13.1	15.0
Acenapthylene	1.00	1.26		23.0	15.0
1-Methyl-naphthalene	1.00	0.89		11.6	15.0
2-Methyl-naphthalene	1.00	0.91		9.4	15.0
Acenapthene	1.00	0.58		53.2	15.0
Flourene	1.00	1.07		6.8	15.0
Phenanthrene	1.00	1.07		6.8	15.0
Anthracene	1.00	1.07		6.8	15.0
Flouranthene	1.00	1.09		8.6	15.0
Pyrene	1.00	1.03		3.0	15.0
Benzo(a)anthracene	1.00	1.11		10.4	15.0
Chrysene	1.00	1.27		23.8	15.0
Benzo(b)flouranthene	1.00	1.01		1.0	15.0
Benzo(k)flouranthene	1.00	1.04		3.9	15.0
Benzo(a)pyrene	1.00	1.01		1.0	15.0
Dibenz(ah)anthracene	1.00	1.27		23.8	15.0
Benzo(ghi)Perylene	1.00	1.02		2.0	15.0
Indeno(123cd)pyrene	1.00	1.01		1.0	15.0

AVERAGE: 11.62

FORM VII SV 3/90

7C

8310 PAH CONTINUING CALIBRATION CHECK

Lab Name: Test America **Calibration Date:** 12/04/00

SDG # 220787 **Cont. Calib. Date:** 1/5/01

Instrument ID: HPLC 3 **Lab File ID:** 0104HP3.040

FLOURECENCE CHANNEL

COMPOUND	known	actual		%D	MAX %D
Napthalene	1.00	1.08		7.7	15.0
1-Methyl-naphthalene	1.00	0.92		8.3	15.0
2-Methyl-naphthalene	1.00	0.73		31.2	15.0
Acenapthene	1.00	0.85		16.2	15.0
Flourene	1.00	0.99		1.0	15.0
Phenanthrene	1.00	1.21		19.0	15.0
Anthracene	1.00	1.21		19.0	15.0
Flouranthene	1.00	1.12		11.3	15.0
Pyrene	1.00	0.96		4.1	15.0
Benzo(a)anthracene	1.00	1.05		4.9	15.0
Chrysene	1.00	1.11		10.4	15.0
Benzo(b)flouranthene	1.00	1.06		5.8	15.0
Benzo(k)flouranthene	1.00	1.14		13.1	15.0
Benzo(a)pyrene	1.00	0.97		3.0	15.0
Dibenz(ah)anthracene	1.00	1.09		8.6	15.0
Benzo(ghi)Perylene	1.00	0.99		1.0	15.0
Indeno(123cd)pyrene	1.00	1.49		39.4	15.0

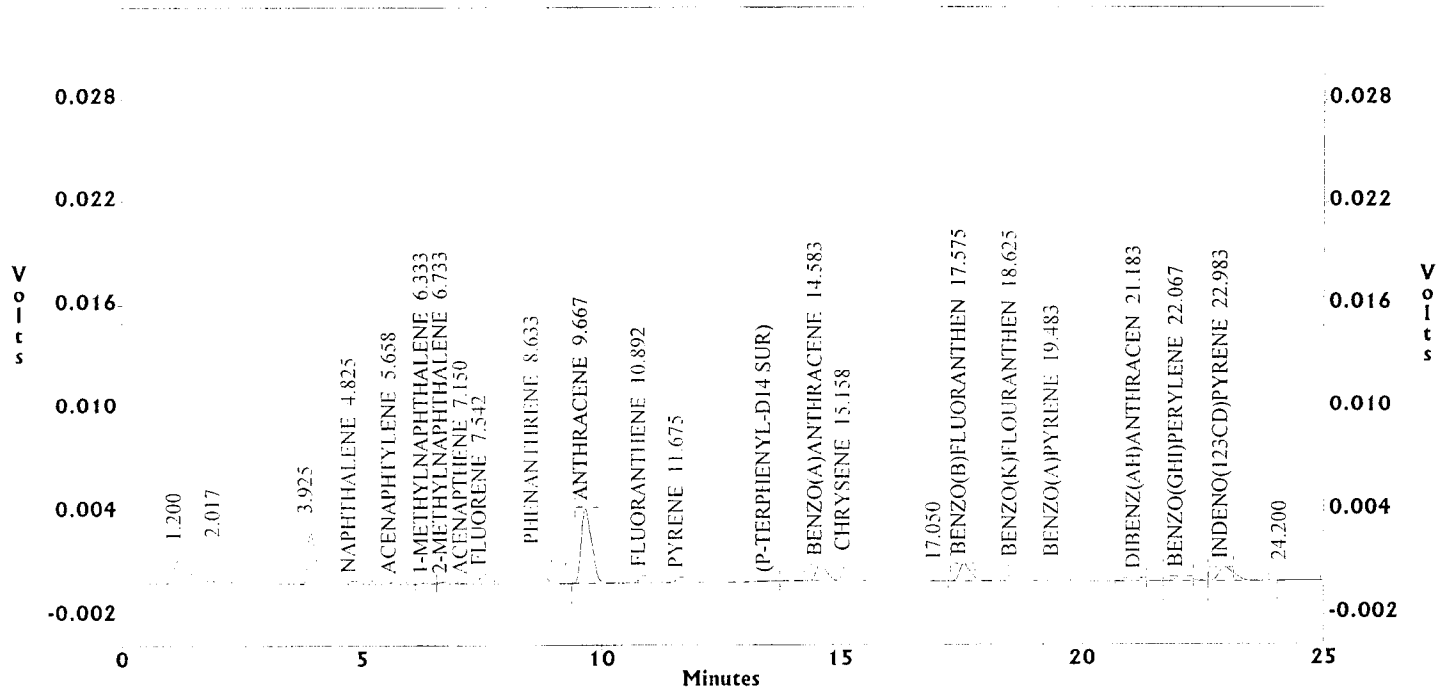
AVERAGE: 12.01

FORM VII SV 3/90

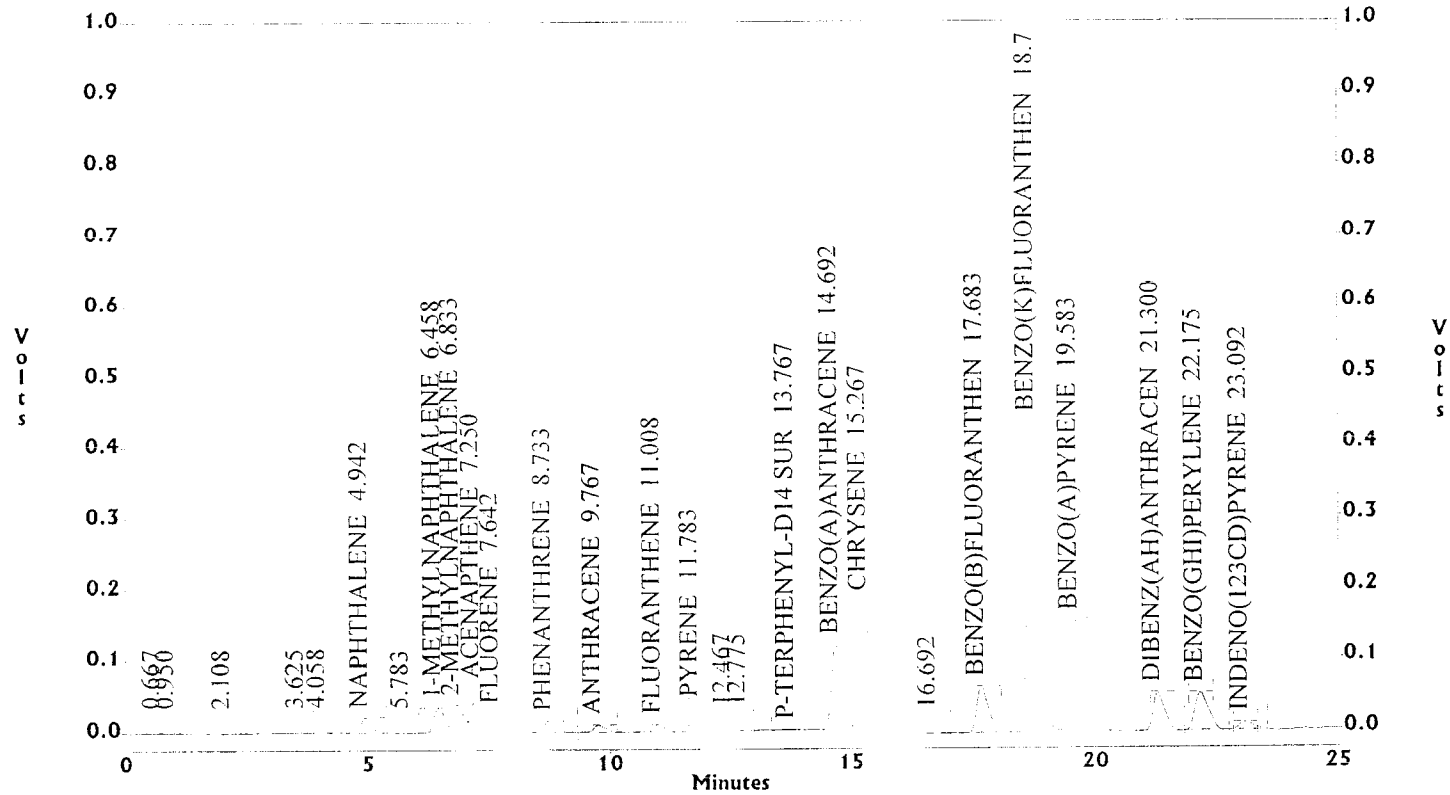
HPLC 1

File : c:\ezchromb\chrom\0104hp3.040
Method : c:\ezchromb\methods\lc1\l3ph1204.met
Sample ID : 1.0ppm(5-w-sn-84-2)
Acquired : Jan 05, 2001 02:13:59
Printed : Jan 05, 2001 07:41:14
User : System

c:\ezchromb\chrom\0104hp3.040 -- Channel A



c:\ezchromb\chrom\0104hp3.040 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\0104hp3.040
Method : c:\ezchromb\methods\lc1\l3ph1204.met
Sample ID : 1.0ppm(5-w-sn-84-2)
Acquired : Jan 05, 2001 02:13:59
Printed : Jan 05, 2001 07:41:15
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	4.82	2225	1.14
ACENAPHTYLENE	5.66	1632	1.26
1-METHYLNAPHT	6.33	906	0.89
2-METHYLNAPHT	6.73	1471	0.91
ACENAPTHENE	7.15	322	0.58
FLUORENE	7.54	8579	1.07
PHENANTHRENE	8.63	27523	1.07
ANTHRACENE	9.67	65287	1.07
FLUORANTHENE	10.89	6351	1.09
PYRENE	11.68	5231	1.03
P-TERPHENYL-D	13.50	0	0.00
BENZO(A)ANTHR	14.58	13794	1.11
CHRYSENE	15.16	18236	1.27
BENZO(B)FLUOR	17.58	15017	1.01
BENZO(K)FLOUR	18.63	13008	1.04
BENZO(A)PYREN	19.48	12946	1.01
DIBENZ(AH)ANT	21.18	3228	1.27
BENZO(GHI)PER	22.07	5280	1.02
INDENO(123CD)	22.98	15798	1.01

Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	4.94	303787	1.08
1-METHYLNAPHT	6.46	397930	0.92
2-METHYLNAPHT	6.83	351269	0.73
ACENAPTHENE	7.25	732134	0.85
FLUORENE	7.64	305330	0.99
PHENANTHRENE	8.73	256766	1.21
ANTHRACENE	9.77	167583	1.21
FLUORANTHENE	11.01	162735	1.12
PYRENE	11.78	534626	0.96
P-TERPHENYL-D	13.77	24475	0.07
BENZO(A)ANTHR	14.69	1762324	1.05
CHRYSENE	15.27	2811494	1.11
BENZO(B)FLUOR	17.68	1042952	1.06
BENZO(K)FLUOR	18.73	6913864	1.14
BENZO(A)PYREN	19.58	2472761	0.97
DIBENZ(AH)ANT	21.30	894570	1.09
BENZO(GHI)PER	22.17	1012175	0.99
INDENO(123CD)	23.09	223670	1.49

TestAmerica
INCORPORATED

Sample Identification

BLANK

Matrix: Water
% Dry Weight:
Units: UG/L
Dilution Factor: 1
Analysis Method: SW8310
Delivery Group: 220787
Instrument:
Vol Extracted: 1000 ml
Extract Vol: 1.0 ml

Lab Sample ID: BLANK
Date Sampled: 12/20/00
Date Received: 12/22/00
Analysis Date: 1/ 4/01
Analysis Time: 19:40
Sample QC Group: 5773

Extraction Date:

FORM I

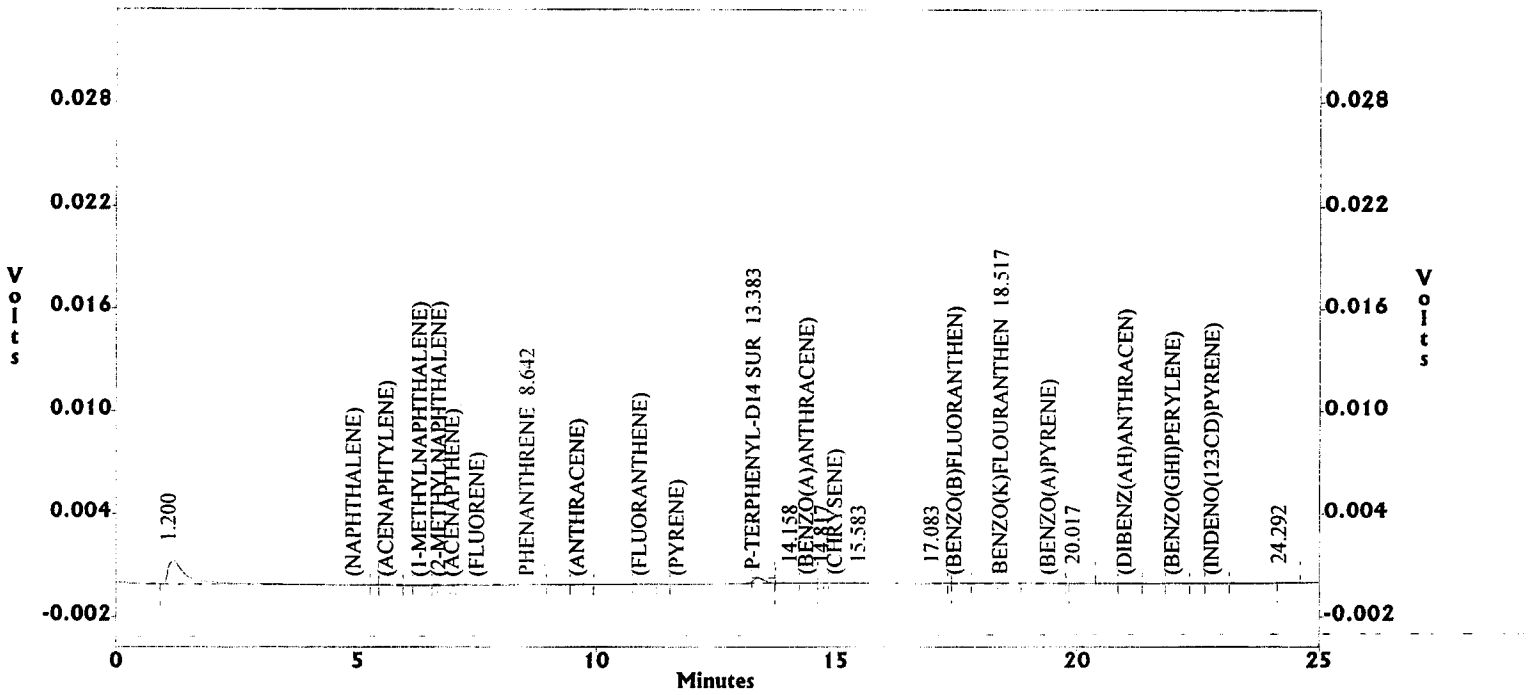
CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1.00	U
83-32-9	Acenaphthene	1.00	U
120-12-7	Anthracene	0.66	U
206-44-0	Fluoranthene	0.21	U
7782-41-4	Fluorene	0.50	U
129-00-0	Pyrene	0.27	U
56-55-3	Benzo(a)anthracene	0.13	U
50-32-8	Benzo(a)pyrene	0.10	U
205-99-2	Benzo(b)fluoranthene	0.18	U
207-08-9	Benzo(k)fluoranthene	0.17	U
218-01-9	Chrysene	0.15	U
53-70-3	Dibenzo(a,h)anthracene	0.30	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.43	U
208-96-8	Acenaphthylene	2.00	U
191-24-2	Benzo(g,h,i)perylene	0.76	U
85-01-8	Phenanthrene	0.64	U
90-12-0	1-Methylnapthalene	1.00	U
91-57-6	2-Methylnaphthalene	1.00	U

2960 Foster Creighton Drive / Nashville,TN 37204 / 615-726-0177 / Fax: 615-726-0954 / 800-765-0980

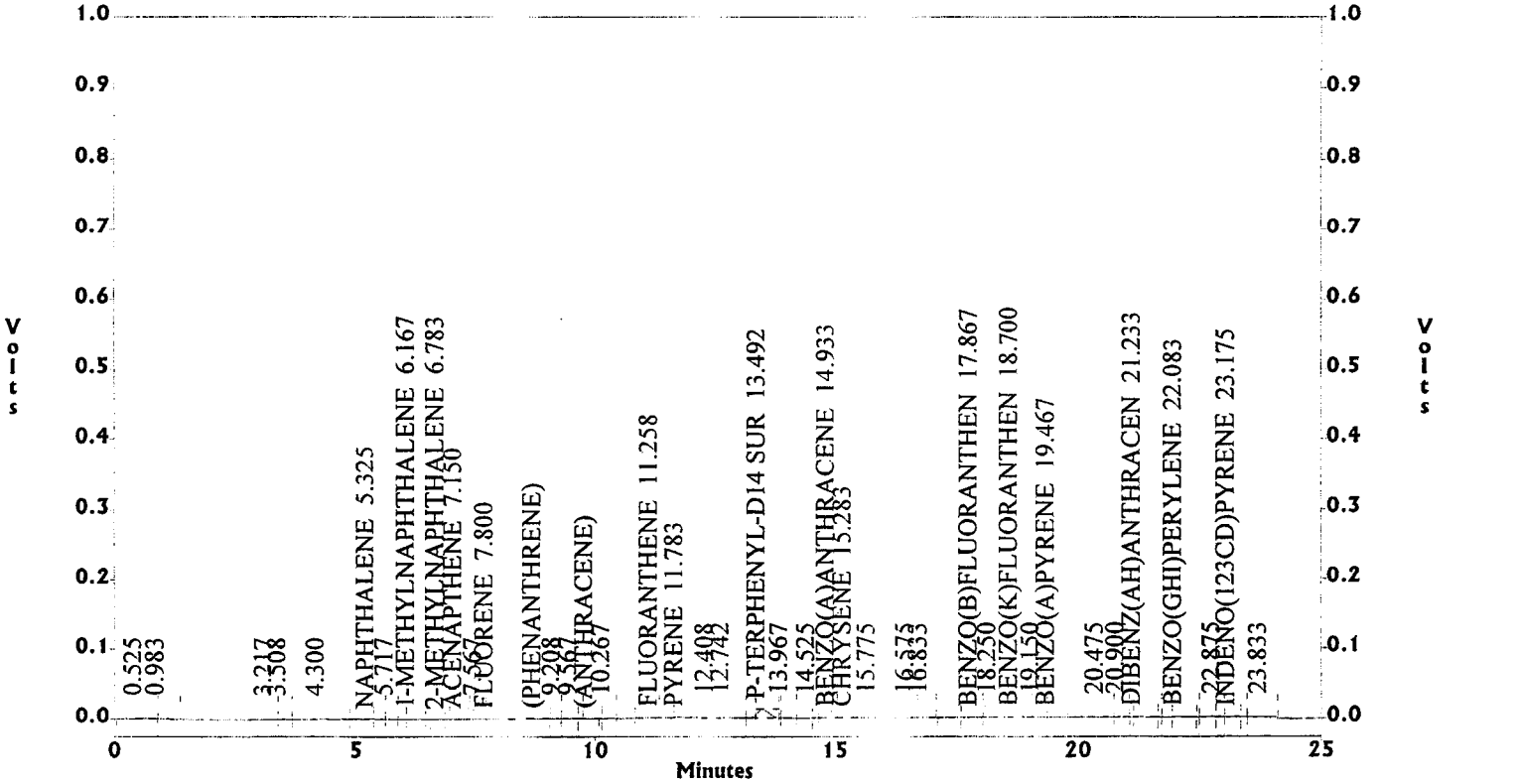
HPLC 1

File : c:\ezchromb\chrom\0104hp3.021
Method : c:\ezchromb\methods\lc1\13ph1204.met
Sample ID : 30515 wbb
Acquired : Jan 04, 2001 17:55:35
Printed : Jan 05, 2001 07:40:23
User : System

c:\ezchromb\chrom\0104hp3.021 -- Channel A



c:\ezchromb\chrom\0104hp3.021 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\0104hp3.021
Method : c:\ezchromb\methods\lc1\13ph1204.met
Sample ID : 30515 wbb
Acquired : Jan 04, 2001 17:55:35
Printed : Jan 05, 2001 07:40:24
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	5.02	0	0.00
ACENAPHTYLENE	5.70	0	0.00
1-METHYLNAPHT	6.40	0	0.00
2-METHYLNAPHT	6.80	0	0.00
ACENAPTHENE	7.08	0	0.00
FLUORENE	7.60	0	0.00
PHENANTHRENE	8.64	303	0.01
ANTHRACENE	9.70	0	0.00
FLUORANTHENE	11.02	0	0.00
PYRENE	11.80	0	0.00
P-TERPHENYL-D	13.38	4745	0.96
BENZO(A)ANTHR	14.50	0	0.00
CHRYSENE	15.10	0	0.00
BENZO(B)FLUOR	17.55	0	0.00
BENZO(K)FLOUR	18.52	2718	0.23
BENZO(A)PYREN	19.51	0	0.00
DIBENZ(AH)ANT	21.10	0	0.00
BENZO(GHI)PER	22.08	0	0.00
INDENO(123CD)	22.90	0	0.00

Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	5.32	22301	0.10
1-METHYLNAPHT	6.17	12082	0.00
2-METHYLNAPHT	6.78	2326	0.00
ACENAPTHENE	7.15	3473	0.00
FLUORENE	7.80	1935	0.06
PHENANTHRENE	8.80	0	0.00
ANTHRACENE	9.90	0	0.00
FLUORANTHENE	11.26	8345	0.01
PYRENE	11.78	26953	0.04
P-TERPHENYL-D	13.49	190503	0.93
BENZO(A)ANTHR	14.93	7065	0.02
CHRYSENE	15.28	9487	0.02
BENZO(B)FLUOR	17.87	9239	0.00
BENZO(K)FLUOR	18.70	13225	0.00
BENZO(A)PYREN	19.47	3636	0.02
DIBENZ(AH)ANT	21.23	6572	0.00
BENZO(GHI)PER	22.08	7542	0.00
INDENO(123CD)	23.17	1994	0.02

1C

SAMPLE NO.

8310 PAH ANALYSIS DATA SHEET

029-SMW11-04-00-07 MS

Lab Name:	Test America	**Lab Sample ID:**	30516 wsb
SDG #:	220787	**Lab File ID:**	0104hp3.022
Matrix: (soil/water)	Water	**Date Analyzed:**	01/04/00
Extract Volume:	500 ml	**Date Received:**	12/21/00
Volume Extracted:	1 ml	**Extraction Date:**	12/26/00
HPLC Column:	Reverse Pahse c18	**Injection Volume:**	5.0 ul

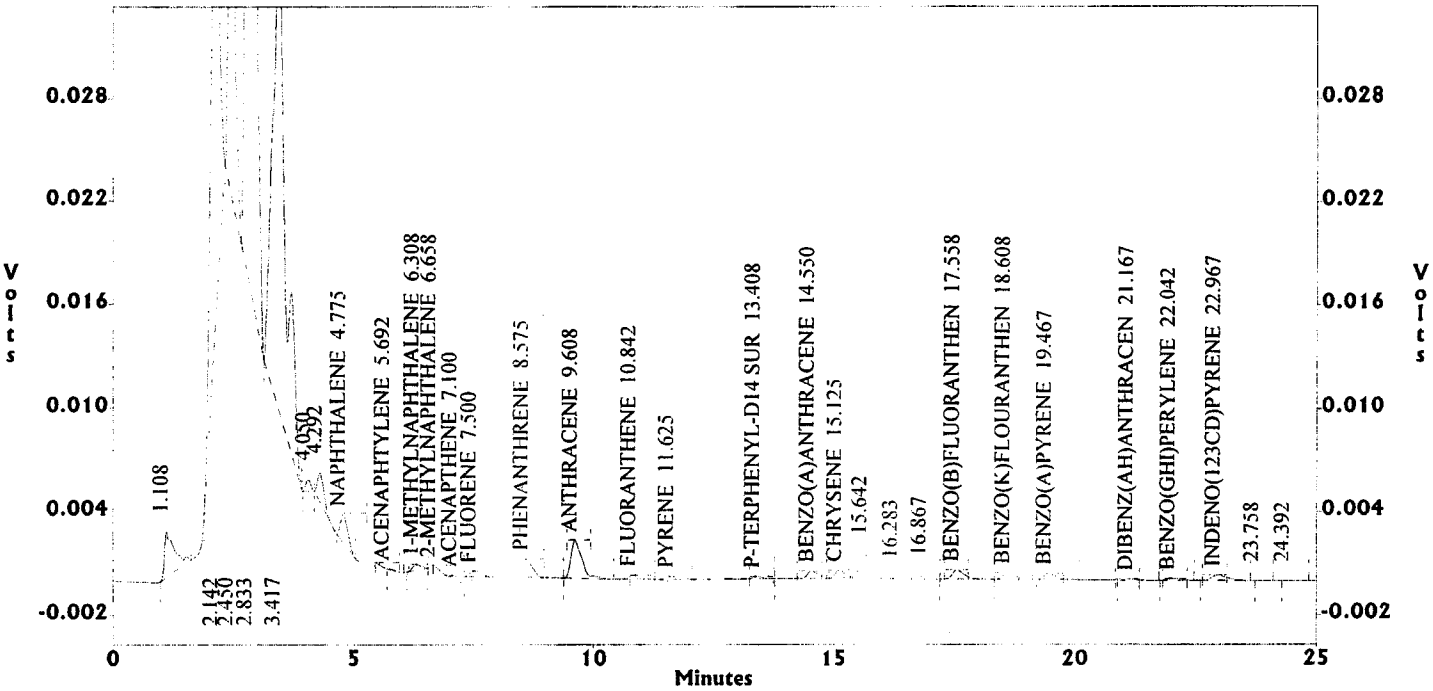
CAS No.	Compound		MS REC ug/L		Q
	Napthalene		12.84000		
	Acenapthylene		3.00000		
	1-Methyl-naphthalene		42.96000		
	2-Methyl-naphthalene		28.44000		
	Acenapthene		2.64000		
	Flourene		6.84000		
	Phenanthrene		9.36000		
	Anthracene		6.84000		
	Flouranthene		7.68000		
	Pyrene		7.92000		
	Benzo(a)anthracene		6.24000		
	Chrysene		5.40000		
	Benzo(b)flouranthene		6.84000		
	Benzo(k)flouranthene		5.76000		
	Benzo(a)pyrene		5.40000		
	Dibenz(ah)anthracene		6.48000		
	Benzo(ghi)Perylene		5.28000		
	Indeno(123cd)pyrene		5.28000		

FORM I VOA 3/90

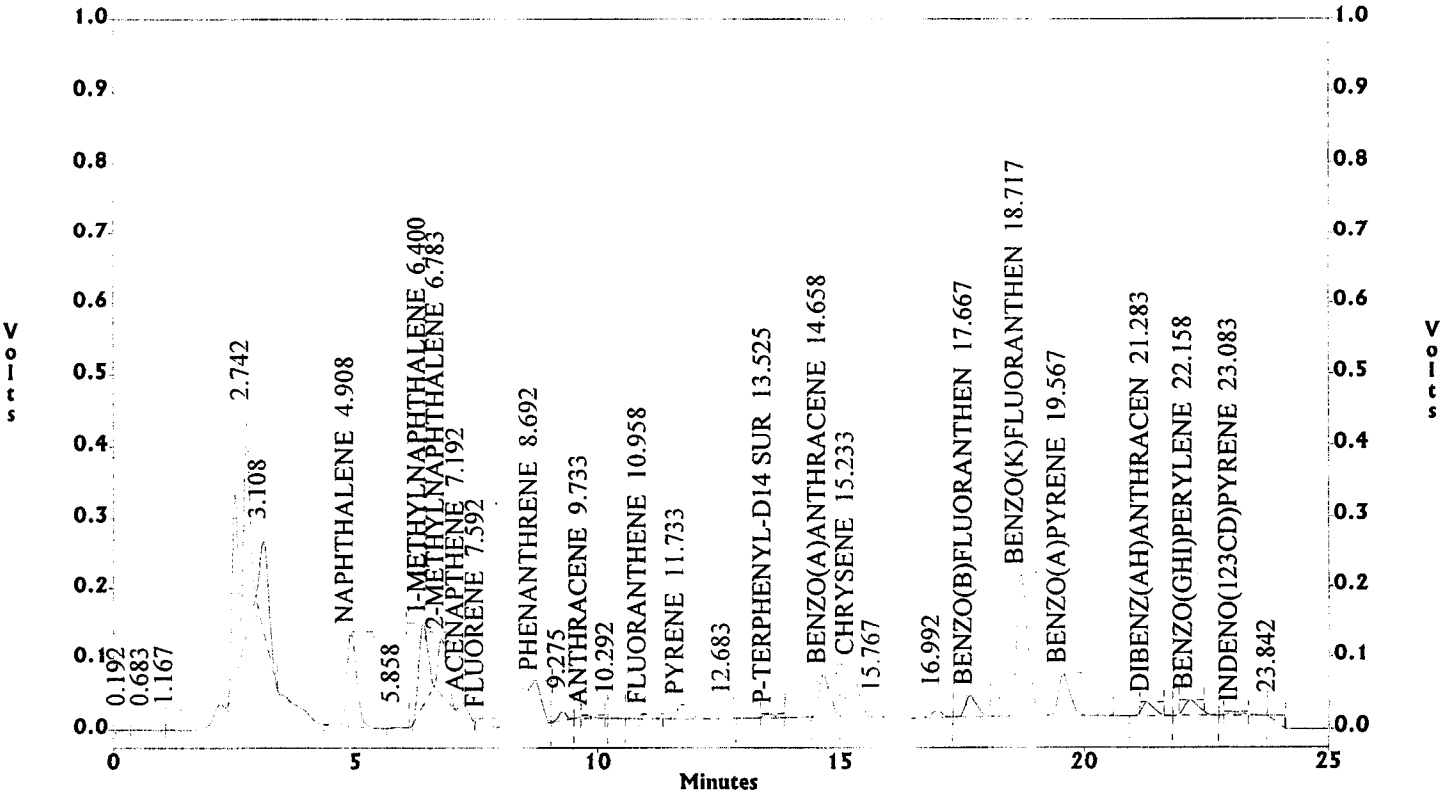
HPLC 1

File : c:\ezchromb\chrom\0104hp3.022
Method : c:\ezchromb\methods\lc1\l3ph1204.met
Sample ID : 30516 wsb
Acquired : Jan 04, 2001 18:21:48
Printed : Jan 05, 2001 07:40:27
User : System

c:\ezchromb\chrom\0104hp3.022 -- Channel A



c:\ezchromb\chrom\0104hp3.022 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\0104hp3.022
Method : c:\ezchromb\methods\lc1\l3ph1204.met
Sample ID : 30516 wsb
Acquired : Jan 04, 2001 18:21:48
Printed : Jan 05, 2001 07:40:28
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	4.78	17115	8.80
ACENAPHTYLENE	5.69	317	0.25
1-METHYLNAPHT	6.31	4237	4.14
2-METHYLNAPHT	6.66	3489	2.15
ACENAPTHENE	7.10	668	1.21
FLUORENE	7.50	4607	0.57
PHENANTHRENE	8.57	20029	0.78
ANTHRACENE	9.61	34863	0.57
FLUORANTHENE	10.84	3714	0.64
PYRENE	11.63	3376	0.66
P-TERPHENYL-D	13.41	2100	0.43
BENZO(A)ANTHR	14.55	6470	0.52
CHRYSENE	15.13	6423	0.45
BENZO(B)FLUOR	17.56	8430	0.57
BENZO(K)FLOUR	18.61	5955	0.48
BENZO(A)PYREN	19.47	5564	0.45
DIBENZ(AH)ANT	21.17	1297	0.51
BENZO(GHI)PER	22.04	2241	0.44
INDENO(123CD)	22.97	6577	0.44

Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	4.91	1837778	6.42
1-METHYLNAPHT	6.40	1482748	3.58
2-METHYLNAPHT	6.78	1027943	2.37
ACENAPTHENE	7.19	199427	0.22
FLUORENE	7.59	94548	0.35
PHENANTHRENE	8.69	1946738	9.79
ANTHRACENE	9.73	60684	0.40
FLUORANTHENE	10.96	94938	0.64
PYRENE	11.73	324567	0.58
P-TERPHENYL-D	13.52	87837	0.40
BENZO(A)ANTHR	14.66	899001	0.54
CHRYSENE	15.23	1114391	0.45
BENZO(B)FLUOR	17.67	466412	0.46
BENZO(K)FLUOR	18.72	3167112	0.51
BENZO(A)PYREN	19.57	929239	0.38
DIBENZ(AH)ANT	21.28	308276	0.36
BENZO(GHI)PER	22.16	416534	0.39
INDENO(123CD)	23.08	97962	0.66

1C

SAMPLE NO

8310 PAH ANALYSIS DATA SHEET

029-SMW11-04-00-07 MSD

Lab Name:	Test America	**Lab Sample ID:**	30517 wsb
SDG #:	220787	**Lab File ID:**	0104hp3.023
Matrix: (soil/water)	Water	**Date Analyzed:**	01/04/00
Extract Volume:	500 ml	**Date Received:**	12/21/00
Volume Extracted:	1 ml	**Extraction Date:**	12/26/00
HPLC Column:	Reverse Pahse c18	**Injection Volume:**	5.0 ul

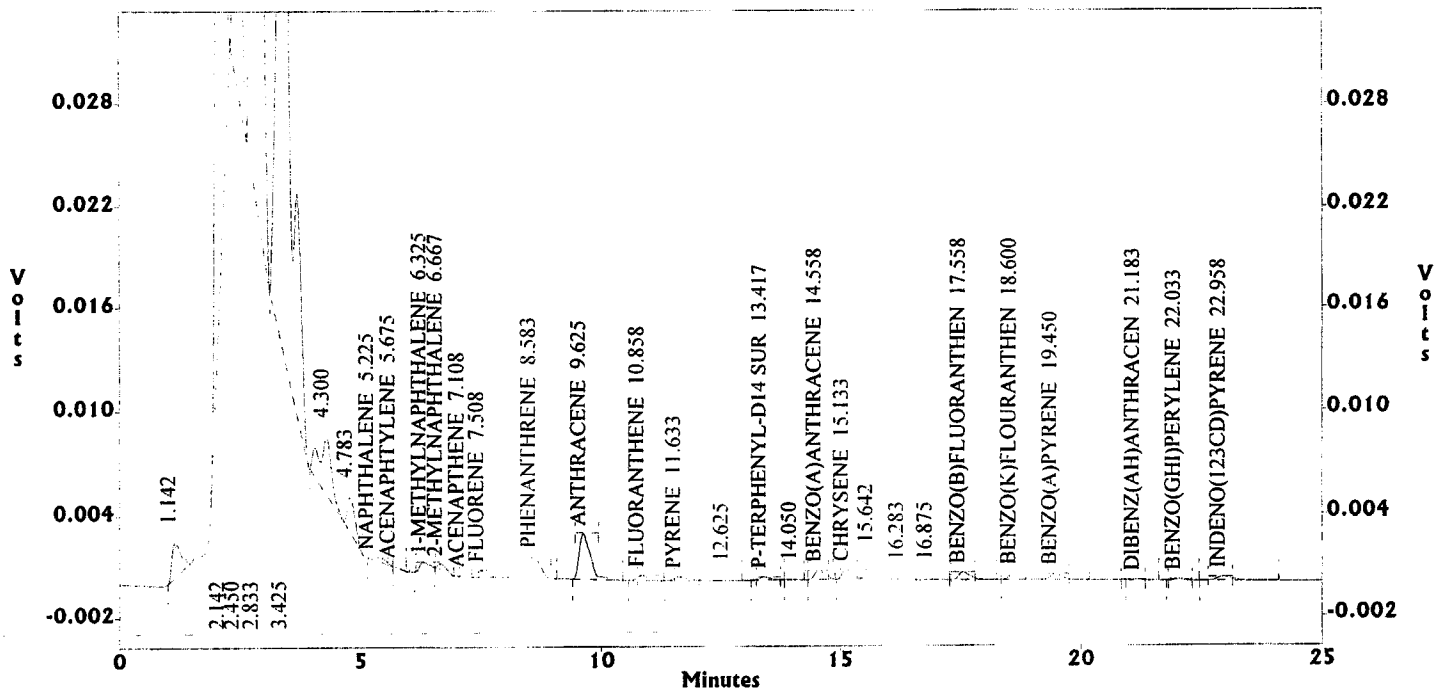
CAS No.	Compound		MSD REC ug/L		Q
	Napthalene		93.48000		
	Acenapthylene		1.56000		
	1-Methyl-naphthalene		53.16000		
	2-Methyl-naphthalene		35.28000		
	Acenapthene		16.32000		
	Flourene		8.28000		
	Phenanthrene		11.04000		
	Anthracene		8.64000		
	Flouranthene		9.84000		
	Pyrene		9.84000		
	Benzo(a)anthracene		7.32000		
	Chrysene		6.60000		
	Benzo(b)flouranthene		5.52000		
	Benzo(k)flouranthene		5.76000		
	Benzo(a)pyrene		5.16000		
	Dibenz(ah)anthracene		4.08000		
	Benzo(ghi)Perylene		3.72000		
	Indeno(123cd)pyrene		4.80000		

FORM I VOA 3/90

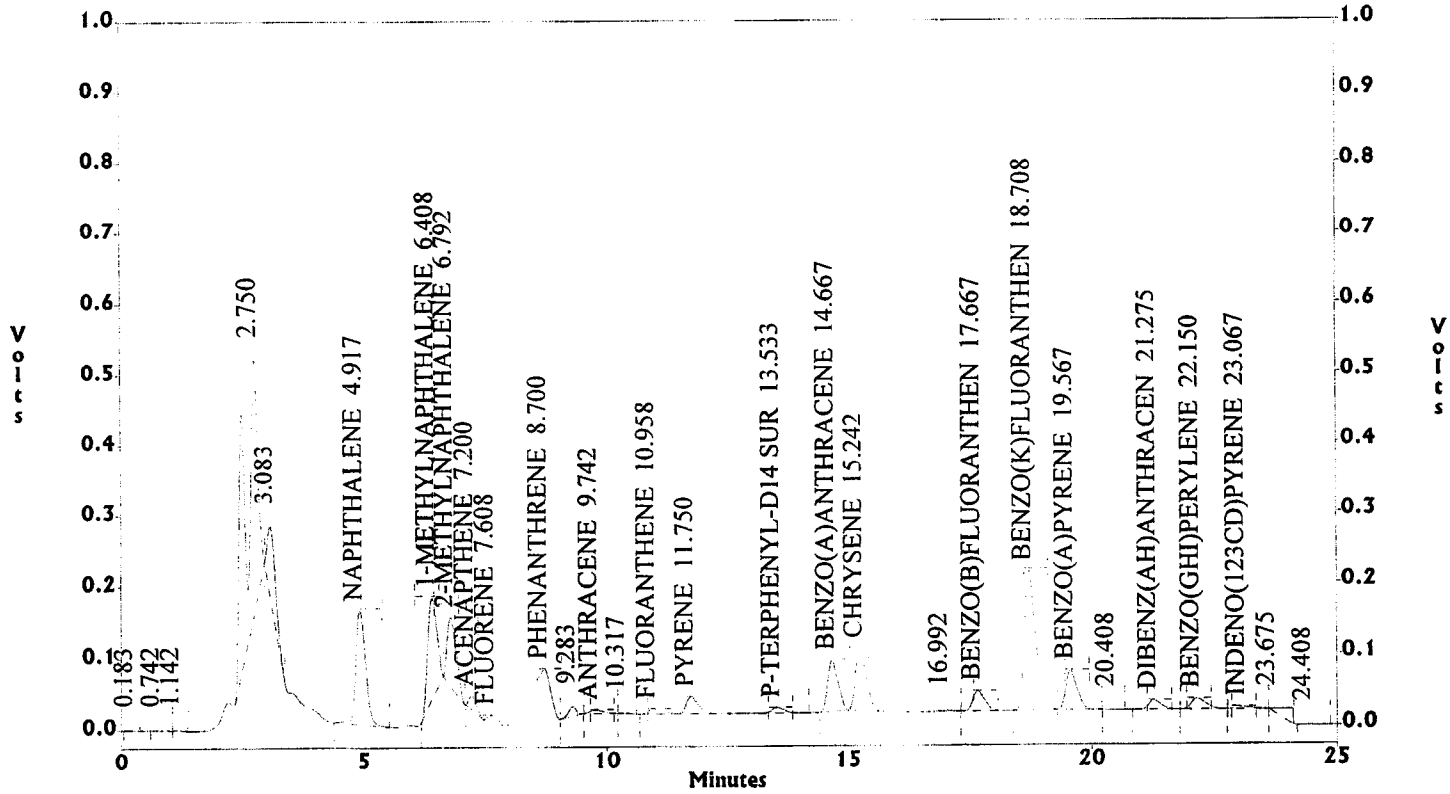
HPLC 1

File : c:\ezchromb\chrom\0104hp3.023
Method : c:\ezchromb\methods\lc1\l3ph1204.met
Sample ID : 30517 wsb
Acquired : Jan 04, 2001 18:48:02
Printed : Jan 05, 2001 07:40:30
User : System

c:\ezchromb\chrom\0104hp3.023 -- Channel A



c:\ezchromb\chrom\0104hp3.023 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\0104hp3.023
Method : c:\ezchromb\methods\lc1\l3ph1204.met
Sample ID : 30517 wsb
Acquired : Jan 04, 2001 18:48:02
Printed : Jan 05, 2001 07:40:30
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	5.22	4883	2.51
ACENAPHTYLENE	5.68	169	0.13
1-METHYLNAPHT	6.32	5274	5.16
2-METHYLNAPHT	6.67	4584	2.82
ACENAPTHENE	7.11	752	1.36
FLUORENE	7.51	5523	0.69
PHENANTHRENE	8.58	23535	0.92
ANTHRACENE	9.63	43503	0.72
FLUORANTHENE	10.86	4767	0.82
PYRENE	11.63	4202	0.82
P-TERPHENYL-D	13.42	2881	0.59
BENZO(A)ANTHR	14.56	7598	0.61
CHRYSENE	15.13	7904	0.55
BENZO(B)FLUOR	17.56	6883	0.46
BENZO(K)FLOUR	18.60	5877	0.48
BENZO(A)PYREN	19.45	5312	0.43
DIBENZ(AH)ANT	21.18	860	0.34
BENZO(GHI)PER	22.03	1514	0.31
INDENO(123CD)	22.96	5960	0.40

Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	4.92	2231197	7.79
1-METHYLNAPHT	6.41	1830147	4.43
2-METHYLNAPHT	6.79	1264419	2.94
ACENAPTHENE	7.20	221950	0.24
FLUORENE	7.61	111484	0.40
PHENANTHRENE	8.70	2400840	12.09
ANTHRACENE	9.74	91598	0.64
FLUORANTHENE	10.96	127679	0.87
PYRENE	11.75	408393	0.73
P-TERPHENYL-D	13.53	156252	0.75
BENZO(A)ANTHR	14.67	1077961	0.65
CHRYSENE	15.24	1371683	0.55
BENZO(B)FLUOR	17.67	456006	0.45
BENZO(K)FLUOR	18.71	3080667	0.50
BENZO(A)PYREN	19.57	882263	0.36
DIBENZ(AH)ANT	21.27	225399	0.25
BENZO(GHI)PER	22.15	303004	0.28
INDENO(123CD)	23.07	68544	0.46

1C

SAMPLE NO

8310 PAH ANALYSIS DATA SHEET

CONTROL W

Lab Name:	Test America	**Lab Sample ID:**	30984 lcs
SDG #:	220787	**Lab File ID:**	0104hp3.024
Matrix: (soil/water)	Water	**Date Analyzed:**	01/04/00
Extract Volume:	500 ml	**Date Received:**	12/21/00
Volume Extracted:	1 ml	**Extraction Date:**	12/26/00
HPLC Column:	Reverse Pahse c18	**Injection Volume:**	5.0 ul

CAS No	Compound		LCS REC ug/L		Q
	Napthalene		1.56000		
	Acenapthylene		1.24000		
	1-Methyl-naphthalene		0.92000		
	2-Methyl-naphthalene		0.94000		
	Acenapthene		0.82000		
	Flourene		1.24000		
	Phenanthrene		1.28000		
	Anthracene		1.22000		
	Flouranthene		1.36000		
	Pyrene		1.26000		
	Benzo(a)anthracene		1.32000		
	Chrysene		1.52000		
	Benzo(b)flouranthene		1.28000		
	Benzo(k)flouranthene		1.30000		
	Benzo(a)pyrene		1.26000		
	Dibenz(ah)anthracene		1.50000		
	Benzo(ghi)Perylene		1.28000		
	Indeno(123cd)pyrene		1.28000		

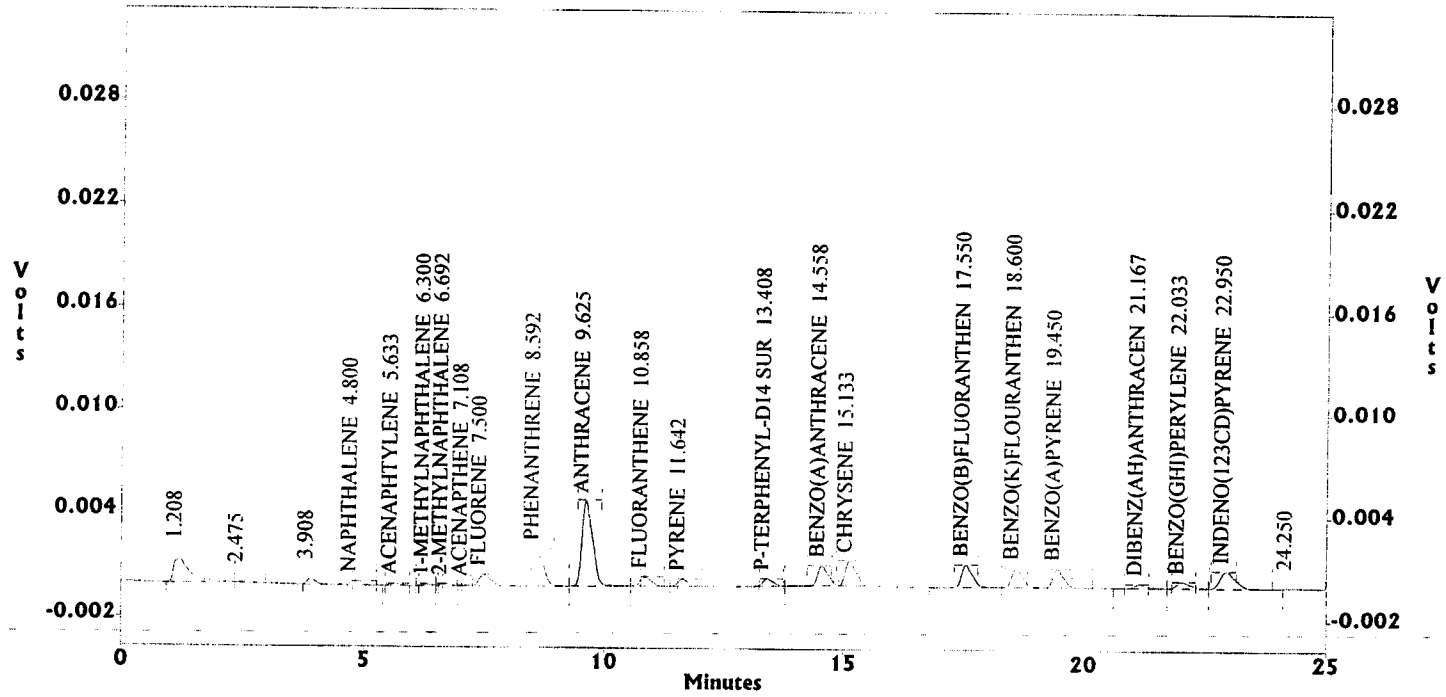
FORM I VOA

3/90

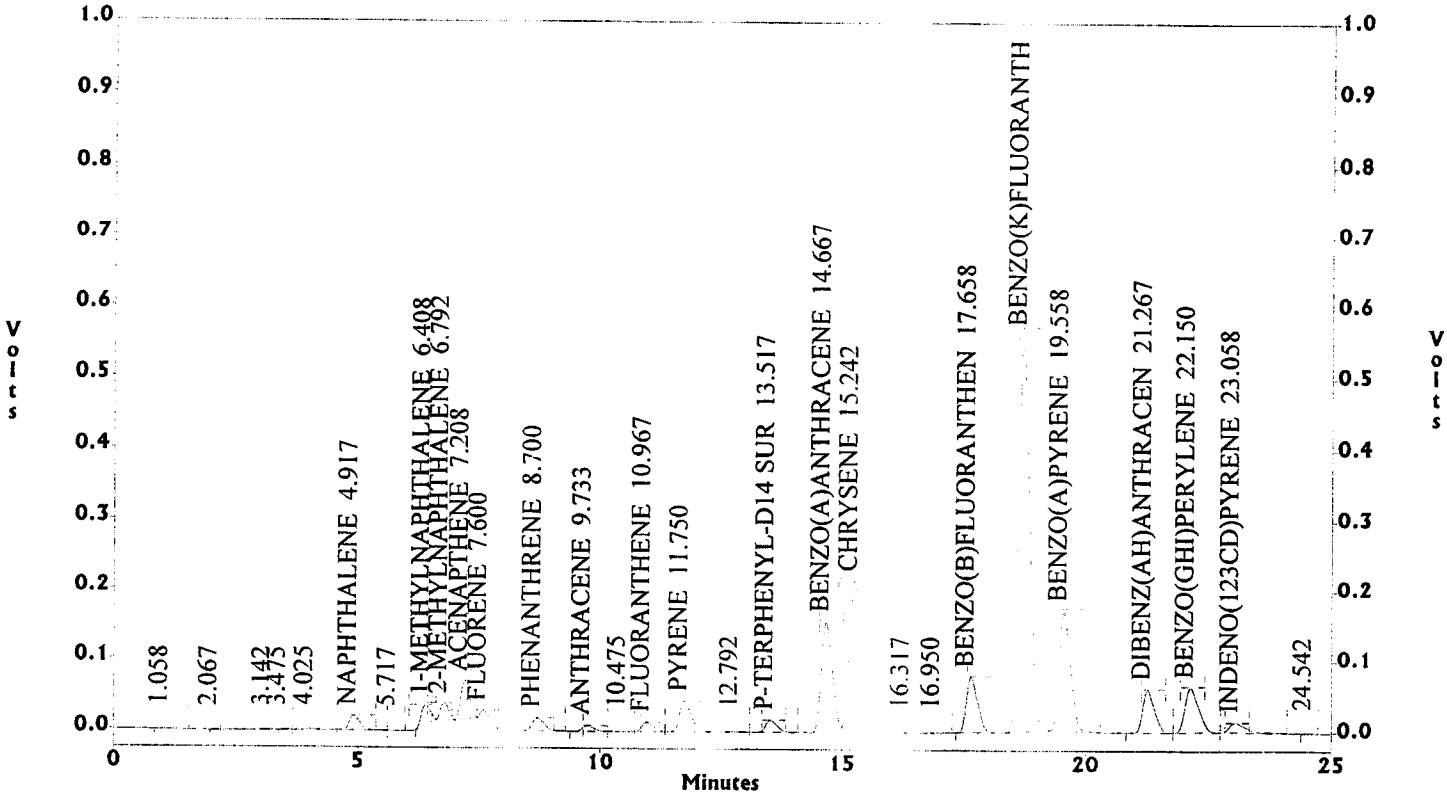
HPLC 1

File : c:\ezchromb\chrom\0104hp3.024
Method : c:\ezchromb\methods\lc1\l3ph1204.met
Sample ID : 30984 lcs
Acquired : Jan 04, 2001 19:14:15
Printed : Jan 05, 2001 07:40:32
User : System

c:\ezchromb\chrom\0104hp3.024 -- Channel A



c:\ezchromb\chrom\0104hp3.024 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\0104hp3.024
Method : c:\ezchromb\methods\lc1\13ph1204.met
Sample ID : 30984 lcs
Acquired : Jan 04, 2001 19:14:15
Printed : Jan 05, 2001 07:40:33
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	4.80	3034	1.56
ACENAPHTYLENE	5.63	1595	1.23
1-METHYLNAPHT	6.30	944	0.92
2-METHYLNAPHT	6.69	1515	0.93
ACENAPTHENE	7.11	389	0.70
FLUORENE	7.50	9872	1.23
PHENANTHRENE	8.59	33018	1.29
ANTHRACENE	9.63	74172	1.22
FLUORANTHENE	10.86	7901	1.35
PYRENE	11.64	6427	1.26
P-TERPHENYL-D	13.41	6152	1.25
BENZO(A)ANTHR	14.56	16360	1.32
CHRYSENE	15.13	21765	1.51
BENZO(B)FLUOR	17.55	19081	1.28
BENZO(K)FLOUR	18.60	16376	1.30
BENZO(A)PYREN	19.45	16183	1.26
DIBENZ(AH)ANT	21.17	3795	1.49
BENZO(GHI)PER	22.03	6638	1.28
INDENO(123CD)	22.95	19990	1.27

Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	4.92	289575	1.03
1-METHYLNAPHT	6.41	346157	0.79
2-METHYLNAPHT	6.79	278044	0.56
ACENAPTHENE	7.21	698670	0.81
FLUORENE	7.60	187552	0.63
PHENANTHRENE	8.70	305107	1.46
ANTHRACENE	9.73	126301	0.90
FLUORANTHENE	10.97	202519	1.41
PYRENE	11.75	700202	1.26
P-TERPHENYL-D	13.52	264277	1.31
BENZO(A)ANTHR	14.67	2308301	1.37
CHRYSENE	15.24	3293721	1.30
BENZO(B)FLUOR	17.66	1242352	1.27
BENZO(K)FLUOR	18.71	8867025	1.47
BENZO(A)PYREN	19.56	2710457	1.06
DIBENZ(AH)ANT	21.27	998021	1.22
BENZO(GHI)PER	22.15	1208830	1.19
INDENO(123CD)	23.06	329871	2.19

Worklist: 1767 Worklist format: bnwlext
Created on: 12/22/00 by: J.Jacobs

HPCL Water

	Log number	Due Date	Due Time	Target Date	pH
1.	blank 30515 WBB				
2.	00-A183950	1/ 5/01		1/ 5/01	7.0
3.	00-A183951	1/ 5/01		1/ 5/01	
4.	00-A183952	1/ 5/01		1/ 5/01	
5.	00-A183953	1/ 5/01		1/ 5/01	
6.	00-A183954	1/ 5/01		1/ 5/01	
7.	00-A183955 X3	1/ 5/01		1/ 5/01	
8.	00-A183956	1/ 5/01		1/ 5/01	
9.	00-A183957	1/ 5/01		1/ 5/01	
10.	Spike 30516 WSB				
11.	mspkdup 30517 WBB				
12.	known 31984 LCS				

Prep by 12/26

MS/MSD 183955

HPLC PAH EXTRACTIONS -- WATER

Worklist #: 1167

Analyst: J.Jacobs

Date Created: 12/22/00

Date Extracted: 12/26/00 gR

Position	Sample ID	Extraction	Vol Ext'd	Ext. Vol
1.	blank		1000	1.0
2.	00-A183950		980	
SW-846 DOC LEVEL IV				
3.	00-A183951		990	
SW-846 DOC LEVEL III				
4.	00-A183952		980	
SW-846 DOC LEVEL III				
5.	00-A183953		990	
SW-846 DOC LEVEL III				
6.	00-A183954		990	
SW-846 DOC LEVEL III				
7.	00-A183955		990	
SW-846 DOC LEVEL III				
8.	00-A183956		990	
SW-846 DOC LEVEL III				

HPLC PAH EXTRACTIONS -- WATER

Worklist #: 1167

Date Created: 12/22/00

Analyst: J.Jacobs

Date Extracted:

Position	Sample ID	Extraction	Vol Ext'd	Ext. Vol
9.	00-A183957	C	990	10

SW-846 DOC LEVEL III

10. Spike Original: 7 Spike Solution: ~~990~~ 500 gk 12/26/00

11. mspkdup Original: 10 Spike Solution: ~~990~~ gk 12/26/00

12. known Laboratory Control Sample: 500 gk 01/05/01

HPCC

TestAmerica
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Nashville, TN

METHYLENE CHLORIDE: P6RJ16-3
ACETONE:
HEXANE:
DIETHYL ETHER:
1,1,2-TRICHLOROTRIFLUOROETHANE (FREON):
METHANOL:
ACETONITRILE:
SILICA GEL:
TOLUENE:
SODIUM CHLORIDE:
PENTANE:
FLORISIL:
SODIUM HYDROXIDE:
SULFURIC ACID:
SODIUM SULFATE (anhydrous): P6D412-3
HYDROCHLORIC ACID:
EDTA:
BORON TRIFLUORIDE/METHANOL (BF-3):
SODIUM SULFATE (aqueous):
POTASSIUM HYDROXIDE (37%):
SULFURIC ACID (25%):
HEXANE/ACETONE MIX (70:30):

SURROGATE: 5WSN74-6

SPIKE: 5WSN73-6

LCS:

1.0mL gR

Oil and Grease Water Bath Temperature:

Soxhlet Extraction Start time: Finish Time:

pH Adjustment: NaOH addition: Sulfuric Acid addition:

Secondary Verification of Samples, Spike, Surrogate, LCS and Extraction Date by: 12/26/00

1.0ppm(5-w-sn-84-2)	l3ph1204.met	0104hp3.001
1.0ppm(5-w-sn-84-2)	l3ph1204.met	0104hp3.002
mdl blank soil	l3ph1204.met	0104hp3.003
mdl-1 soil	l3ph1204.met	0104hp3.004
mdl-2 soil	l3ph1204.met	0104hp3.005
mdl-3 soil	l3ph1204.met	0104hp3.006
mdl-4 soil	l3ph1204.met	0104hp3.007
mdl-5 soil	l3ph1204.met	0104hp3.008
mdl-6 soil	l3ph1204.met	0104hp3.009
mdl-7 soil	l3ph1204.met	0104hp3.010
1.0ppm(5-w-sn-84-2)	l3ph1204.met	0104hp3.011
mdl blank water	l3ph1204.met	0104hp3.012
mdl-1 water	l3ph1204.met	0104hp3.013
mdl-2 water	l3ph1204.met	0104hp3.014
mdl-3 water	l3ph1204.met	0104hp3.015
mdl-4 water	l3ph1204.met	0104hp3.016
mdl-5 water	l3ph1204.met	0104hp3.017
mdl-6 water	l3ph1204.met	0104hp3.018
mdl-7 water	l3ph1204.met	0104hp3.019
1.0ppm(5-w-sn-84-2)	l3ph1204.met	0104hp3.020
30515 wbb	l3ph1204.met	0104hp3.021
30516 wsb 029-5MW11-04-00-07 MS	l3ph1204.met	0104hp3.022
30517 wsb 029-5MW11-04-00-07 MSD	l3ph1204.met	0104hp3.023
30984 lcs	l3ph1204.met	0104hp3.024
183950 029-5MW01-04-00-07	l3ph1204.met	0104hp3.025
183951 029-5MW02-04-00-07	l3ph1204.met	0104hp3.026
183952 029-5MW03-04-00-07	l3ph1204.met	0104hp3.027
183953 029-5MW7-04-00-07	l3ph1204.met	0104hp3.028
183954 029-5MW10-04-00-07	l3ph1204.met	0104hp3.029
183955 029-5MW11-04-00-07	l3ph1204.met	0104hp3.030
1.0ppm(5-w-sn-84-2)	l3ph1204.met	0104hp3.031
183956 029-DUP-04-00-07	l3ph1204.met	0104hp3.032
183957 029-E0B-04-00-07	l3ph1204.met	0104hp3.033
31258 wbb	l3ph1204.met	0104hp3.034
31259 wsb	l3ph1204.met	0104hp3.035
31260 wsb	l3ph1204.met	0104hp3.036
32151 lcs	l3ph1204.met	0104hp3.037
4	l3ph1204.met	0104hp3.038
5	l3ph1204.met	0104hp3.039
1.0ppm(5-w-sn-84-2)	l3ph1204.met	0104hp3.040

TestAmerica INCORPORATED

Property of Nashville Division
2960 Foster Creighton Dr.
Nashville, TN 37204
(615) 726-0177

PH by SW846/9040/150.1

SUMMARY DATA

TESTAMERICA, INC
2960 FOSTER CREIGHTON DRIVE
NASHVILLE, TN 37204
1-800-765-0980

klist: 1168 Worklist format: ph
eated on: 12/22/00 by: J.Jacobs

	Log number	Due Date	Due Time	Target Date	Project
1.	00-A183950	1/ 5/01		1/ 5/01	220787
2.	00-A183951	1/ 5/01		1/ 5/01	220787
3.	00-A183952	1/ 5/01		1/ 5/01	220787
4.	00-A183953	1/ 5/01		1/ 5/01	220787
5.	00-A183954	1/ 5/01		1/ 5/01	220787
6.	00-A183955	1/ 5/01		1/ 5/01	220787
7.	00-A183956	1/ 5/01		1/ 5/01	220787
8.	00-A183957	1/ 5/01		1/ 5/01	220787
9.	Duplicate				

MS/MSD 183955

KAB

KAB

?

12/26/00

pH

Analyst: J.Jacobs

Analysis Date:

Worklist No.: 1168

Date Created: 12/22/00

Pos	Sample	Date	Time		pH	Soil Type
1.	00-A183950	12-26-00	8:46	liquid	6.4	
				solid	Not Requested	

Pos	Sample	Date	Time		pH	Soil Type
2.	00-A183951	12-26-00	8:50	liquid	6.5	
				solid	Not Requested	

Pos	Sample	Date	Time		pH	Soil Type
3.	00-A183952	12-26-00	8:50	liquid	4.4	
				solid	Not Requested	

Pos	Sample	Date	Time		pH	Soil Type
4.	00-A183953	12-26-00	8:54	liquid	6.2	
				solid	Not Requested	

pH

Analyst: J.Jacobs

Analysis Date:

Worklist No.: 1168

Date Created: 12/22/00

Pos	Sample	Date	Time		pH	Soil Type
5.	00-A183954	12-26-00	8:54	liquid	4.2	
				solid	Not Requested	

Pos	Sample	Date	Time		pH	Soil Type
6.	00-A183955	12-26-00	8:57	liquid	6.5	
				solid	Not Requested	

Pos	Sample	Date	Time		pH	Soil Type
7.	00-A183956	12-26-00	8:57	liquid	4.2	
				solid	Not Requested	

Pos	Sample	Date	Time		pH	Soil Type
8.	00-A183957	12-26-00	9:00	liquid	6.7	
				solid	Not Requested	

pH

Analyst: J.Jacobs

Analysis Date:

Worklist No.: 1168

Date Created: 12/22/00

9. Duplicate Original: 6

liquid 6.5 Diff: _____

RD : _____

TestAmerica

lashville Division

Method CWA 150.1, SW-846 9040B

Date: 12-26-00

Daily pH Meter Run Log - Water

KB

pH Meter A

Buffers	pH
1-3	1.00
4-21	4.00
7-24	7.00
10-13	10.00
ICV 7.9	7.00

12-2 12:56

Run #	Sample ID	pH	Temp.
1	184406	7.5	21
2	183974	7.4	21
3	183975	7.4	21
4	183978	7.1	21
5	183950	6.4	21
6	183951	6.5	21
7	183953	6.2	21
8	183955	6.5	21
Duplicate	183955	6.5	21
9	183957	6.7	21
10	184562	8.7	21
Duplicate	184562	8.7	21
ICV	7.9	7.0	21

pH Meter B

Buffers	pH
1-3	1.00
4-21	4.00
7-24	7.00
10-13	10.00
ICV 7.9	7.00

12-1 12:56

Run #	Sample ID	pH	Temp.
1	184384	6.6	21
Duplicate	184384	6.6	21
2	183973	7.6	21
3	183977	7.3	21
4	183979	7.8	21
5	183980	7.4	21
Duplicate	183980	7.4	21
6	183952	4.4	21
7	183954	4.2	21
8	183956	4.32	21
9	184733	7.8	21
10	184558	13.7	21
ICV	7.9	7.0	21

TESTAMERICA,INC.-NASHVILLE

COOLER RECEIPT FORM

Client: Accura Analytical Lab BC# 220787

Cooler Received On: 12-12-00 And Opened On: 12-12-00 By: James Jacobs

(Signature) J Jacobs

1. Temperature of Cooler when opened 2.5 Degrees Celsius
2. Were custody seals on outside of cooler?.....YES NO
   a. If yes, how many, what kind and where: _____
3. Were custody seals on containers and intact?.....NO YES
4. Were the seals intact, signed, and dated correctly?.....~~YES NO~~
5. Were custody papers inside cooler?.....YES NO
6. Were custody papers properly filled out (ink,signed,etc)?.....YES NO
7. Did you sign the custody papers in the appropriate place?.....YES NO
8. What kind of packing material used? Bubblewrap Peanuts Vermiculite Other None
9. Was sufficient ice used (if appropriate)?.....YES NO
10. Did all bottles arrive in good condition(unbroken)?.....YES NO
11. Were all bottle labels complete (#,date,signed,pres,etc)?.....YES NO
12. Did all bottle labels and tags agree with custody papers?.....YES NO
13. Were correct bottles used for the analysis requested?.....YES NO
14. a. Were VOA vials received?.....YES NO
    b. Was there any observable head space present in any VOA vial?.....~~NO YES~~
15. Was sufficient amount of sample sent in each bottle?.....YES NO
16. Were correct preservatives used?.....YES NO
17. Was residual chlorine present?.....NO YES
17. Corrective action taken, if necessary:

    See attached for resolution

TestAmerica
INCORPORATED

ANALYTICAL REPORT

ACCURA ANALYTICAL 2656

6017 FINANCIAL DR.
NORCROSS, GA 30071

Project: #26563
Project Name: ACCURA ANALYTICAL LABORA
Sampler:

Lab Number: 00-A183950
Sample ID: 029-SMW01-Q4-00-07
Sample Type: Ground water
Site ID:

Date Collected: 12/20/00
Time Collected: 9:30
Date Received: 12/22/00
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS										
Naphthalene	ND	ug/l	1.02	1.00	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Acenaphthene	ND	ug/l	1.02	1.00	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Anthracene	ND	ug/l	0.67	0.66	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Fluoranthene	ND	ug/l	0.21	0.21	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Fluorene	ND	ug/l	0.51	0.50	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Pyrene	ND	ug/l	0.28	0.27	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Benzo(a)anthracene	ND	ug/l	0.13	0.13	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Benzo(a)pyrene	ND	ug/l	0.10	0.10	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Benzo(b)fluoranthene	ND	ug/l	0.18	0.18	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Benzo(k)fluoranthene	ND	ug/l	0.17	0.17	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Chrysene	ND	ug/l	0.15	0.15	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Dibenzo(a,h)anthracene	ND	ug/l	0.31	0.30	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Indeno(1,2,3-cd)pyrene	ND	ug/l	0.44	0.43	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Acenaphthylene	ND	ug/l	2.04	2.00	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Benzo(g,h,i)perylene	ND	ug/l	0.78	0.76	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Phenanthrene	ND	ug/l	0.65	0.64	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
1-Methylnapthalene	ND	ug/l	1.02	1.00	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
2-Methylnaphthalene	ND	ug/l	1.02	1.00	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
MISCELLANEOUS CHEMISTRY										
pH	6.40	pH Units			1	12/26/00	8:46	K. Stewart	9040/150.1	1168

ND - Not detected at the report limit.

Sample report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 00-A183950
Sample ID: 029-SMW01-Q4-00-07

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH's	980. ml	1.00 ml	12/26/00		J. Rudden	3510/610

Surrogate	% Recovery	Target Range
PAH Surr., p-terphenyl d14	30.	12. - 152.

= Recovery outside Laboratory historical limits.

These results relate only to the items tested.
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By: _____ Report Date: 1/ 5/01

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director
Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: HRS-E87358

End of Sample Report.

2960 Foster Creighton Drive / Nashville,TN 37204 / 615-726-0177 / Fax: 615-726-0954 / 800-765-0980

TestAmerica
INCORPORATED

ANALYTICAL REPORT

ACCURA ANALYTICAL 2656

6017 FINANCIAL DR.
NORCROSS, GA 30071

Lab Number: 00-A183951
Sample ID: 029-SMW02-Q4-00-07
Sample Type: Ground water
Site ID:

Project: #26563
Project Name: ACCURA ANALYTICAL LABORA
Sampler:

Date Collected: 12/20/00
Time Collected: 12:10
Date Received: 12/22/00
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS										
Naphthalene	ND	ug/l	1.01	1.00	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Acenaphthene	ND	ug/l	1.01	1.00	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Anthracene	ND	ug/l	0.67	0.66	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Fluoranthene	ND	ug/l	0.21	0.21	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Fluorene	ND	ug/l	0.51	0.50	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Pyrene	ND	ug/l	0.27	0.27	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Benzo(a)anthracene	ND	ug/l	0.13	0.13	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Benzo(a)pyrene	ND	ug/l	0.10	0.10	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Benzo(b)fluoranthene	ND	ug/l	0.18	0.18	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Benzo(k)fluoranthene	ND	ug/l	0.17	0.17	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Chrysene	ND	ug/l	0.15	0.15	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Dibenzo(a,h)anthracene	ND	ug/l	0.30	0.30	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Indeno(1,2,3-cd)pyrene	ND	ug/l	0.43	0.43	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Acenaphthylene	ND	ug/l	2.02	2.00	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Benzo(g,h,i)perylene	ND	ug/l	0.77	0.76	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Phenanthrene	ND	ug/l	0.65	0.64	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
1-Methylnapthalene	ND	ug/l	1.01	1.00	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
2-Methylnaphthalene	ND	ug/l	1.01	1.00	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
MISCELLANEOUS CHEMISTRY										
pH	6.50	pH Units			1	12/26/00	8:50	K. Stewart	9040/150.1	1168

ND - Not detected at the report limit.

Sample report continued . . .

TestAmerica
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ANALYTICAL REPORT

Laboratory Number: 00-A183951
Sample ID: 029-SMW02-Q4-00-07

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH's	990. ml	1.00 ml	12/26/00		J. Rudden	3510/610

Surrogate	% Recovery	Target Range
PAH Surr., p-terphenyl d14	33.	12. - 152.

= Recovery outside Laboratory historical limits.

These results relate only to the items tested.
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Report Approved By: _____ Report Date: 1/ 5/01

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director
Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: HRS-E87358

End of Sample Report.

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ANALYTICAL REPORT

ACCURA ANALYTICAL 2656

6017 FINANCIAL DR.
NORCROSS, GA 30071

Lab Number: 00-A183952
Sample ID: 029-SMW03-Q4-00-07
Sample Type: Ground water
Site ID:

Project: #26563
Project Name: ACCURA ANALYTICAL LABORA
Sampler:

Date Collected: 12/20/00
Time Collected: 10:40
Date Received: 12/22/00
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS										
Naphthalene	ND	ug/l	1.02	1.00	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Acenaphthene	ND	ug/l	1.02	1.00	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Anthracene	ND	ug/l	0.67	0.66	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Fluoranthene	ND	ug/l	0.21	0.21	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Fluorene	ND	ug/l	0.51	0.50	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Pyrene	ND	ug/l	0.28	0.27	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Benzo(a)anthracene	ND	ug/l	0.13	0.13	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Benzo(a)pyrene	ND	ug/l	0.10	0.10	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Benzo(b)fluoranthene	ND	ug/l	0.18	0.18	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Benzo(k)fluoranthene	ND	ug/l	0.17	0.17	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Chrysene	ND	ug/l	0.15	0.15	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Dibenzo(a,h)anthracene	ND	ug/l	0.31	0.30	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Indeno(1,2,3-cd)pyrene	ND	ug/l	0.44	0.43	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Acenaphthylene	ND	ug/l	2.04	2.00	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Benzo(g,h,i)perylene	ND	ug/l	0.78	0.76	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Phenanthrene	ND	ug/l	0.65	0.64	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
1-Methylnapthalene	ND	ug/l	1.02	1.00	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
2-Methylnaphthalene	ND	ug/l	1.02	1.00	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
MISCELLANEOUS CHEMISTRY										
pH	4.40	pH Units			1	12/26/00	8:50	K. Stewart	9040/150.1	1168

ND - Not detected at the report limit.

Sample report continued . . .

TestAmerica
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ANALYTICAL REPORT

Laboratory Number: 00-A183952
Sample ID: 029-SMW03-Q4-00-07

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH's	980. ml	1.00 ml	12/26/00		J. Rudden	3510/610

Surrogate	% Recovery	Target Range
PAH Surr., p-terphenyl d14	53.	12. - 152.

- Recovery outside Laboratory historical limits.

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Report Approved By: _____ Report Date: 1/ 5/01

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director
Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: HRS-E87358

End of Sample Report.

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ANALYTICAL REPORT

ACCURA ANALYTICAL 2656

6017 FINANCIAL DR.
NORCROSS, GA 30071

Project: #26563
Project Name: ACCURA ANALYTICAL LABORA
Sampler:

Lab Number: 00-A183953
Sample ID: 029-SMW07-Q4-00-07
Sample Type: Ground water
Site ID:

Date Collected: 12/20/00
Time Collected: 14:05
Date Received: 12/22/00
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS										
Naphthalene	ND	ug/l	11.1	1.00	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Acenaphthene	ND	ug/l	11.1	1.00	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Anthracene	ND	ug/l	7.33	0.66	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Fluoranthene	ND	ug/l	2.33	0.21	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Fluorene	ND	ug/l	5.56	0.50	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Pyrene	ND	ug/l	3.00	0.27	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Benzo(a)anthracene	ND	ug/l	1.44	0.13	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Benzo(a)pyrene	ND	ug/l	1.11	0.10	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Benzo(b)fluoranthene	ND	ug/l	2.00	0.18	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Benzo(k)fluoranthene	ND	ug/l	1.89	0.17	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Chrysene	ND	ug/l	1.67	0.15	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Dibenzo(a,h)anthracene	ND	ug/l	3.33	0.30	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Indeno(1,2,3-cd)pyrene	ND	ug/l	4.78	0.43	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Acenaphthylene	ND	ug/l	22.2	2.00	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Benzo(g,h,i)perylene	ND	ug/l	8.44	0.76	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Phenanthrene	ND	ug/l	7.11	0.64	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
1-Methylnapthalene	ND	ug/l	11.1	1.00	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
2-Methylnaphthalene	ND	ug/l	11.1	1.00	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
MISCELLANEOUS CHEMISTRY										
pH	6.20	pH Units			1	12/26/00	8:54	K. Stewart	9040/150.1	1168

ND = Not detected at the report limit.

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 00-A183953
Sample ID: 029-SMW07-Q4-00-07

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH's	90. ml	1.00 ml	12/26/00		J. Rudden	3510/610

Surrogate	% Recovery	Target Range
PAH Surr., p-terphenyl d14	19.	12. - 152.

- Recovery outside Laboratory historical limits.

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Report Approved By: _____ Report Date: 1/ 5/01

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Michael H. Dunn, M.S., Technical Director
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Eric S. Smith, Assistant Technical Director

Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: HRS-E87358

End of Sample Report.

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ANALYTICAL REPORT

ACCURA ANALYTICAL 2656

6017 FINANCIAL DR.
NORCROSS, GA 30071

Project: #26563
Project Name: ACCURA ANALYTICAL LABORA
Sampler:

Lab Number: 00-A183954
Sample ID: 029-SMW10-Q4-00-07
Sample Type: Ground water
Site ID:

Date Collected: 12/20/00
Time Collected: 13:25
Date Received: 12/22/00
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS										
Naphthalene	ND	ug/l	1.01	1.00	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Acenaphthene	ND	ug/l	1.01	1.00	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Anthracene	ND	ug/l	0.67	0.66	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Fluoranthene	ND	ug/l	0.21	0.21	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Fluorene	ND	ug/l	0.51	0.50	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Pyrene	ND	ug/l	0.27	0.27	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Benzo(a)anthracene	ND	ug/l	0.13	0.13	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Benzo(a)pyrene	ND	ug/l	0.10	0.10	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Benzo(b)fluoranthene	ND	ug/l	0.18	0.18	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Benzo(k)fluoranthene	ND	ug/l	0.17	0.17	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Chrysene	ND	ug/l	0.15	0.15	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Dibenzo(a,h)anthracene	ND	ug/l	0.30	0.30	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Indeno(1,2,3-cd)pyrene	ND	ug/l	0.43	0.43	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Acenaphthylene	ND	ug/l	2.02	2.00	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Benzo(g,h,i)perylene	ND	ug/l	0.77	0.76	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Phenanthrene	ND	ug/l	0.65	0.64	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
1-Methylnapthalene	ND	ug/l	1.01	1.00	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
2-Methylnaphthalene	ND	ug/l	1.01	1.00	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
MISCELLANEOUS CHEMISTRY										
pH	4.20	pH Units			1	12/26/00	8:54	K. Stewart	9040/150.1	1168

ND = Not detected at the report limit.

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 00-A183954
Sample ID: 029-SMW10-Q4-00-07

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH's	990. ml	1.00 ml	12/26/00		J. Rudden	3510/610

Surrogate	% Recovery	Target Range
PAH Surr., p-terphenyl d14	52.	12. - 152.

- Recovery outside Laboratory historical limits.

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Report Approved By: _____ Report Date: 1/ 5/01

Paul E. Lane, Jr., Lab Director
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Eric S. Smith, Assistant Technical Director
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Pamela A. Langford, Technical Serv.

Laboratory Certification Number: HRS-E87358

End of Sample Report.

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ANALYTICAL REPORT

ACCURA ANALYTICAL 2656

6017 FINANCIAL DR.
NORCROSS, GA 30071

Lab Number: 00-A183955
Sample ID: 029-SMW11-Q4-00-07
Sample Type: Ground water
Site ID:

Project: #26563
Project Name: ACCURA ANALYTICAL LABORA
Sampler:

Date Collected: 12/20/00
Time Collected: 11:25
Date Received: 12/22/00
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS										
Naphthalene	11.2	ug/l	1.01	1.00	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Acenaphthene	ND	ug/l	1.01	1.00	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Anthracene	ND	ug/l	0.67	0.66	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Fluoranthene	ND	ug/l	0.21	0.21	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Fluorene	ND	ug/l	0.51	0.50	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Pyrene	ND	ug/l	0.27	0.27	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Benzo(a)anthracene	ND	ug/l	0.13	0.13	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Benzo(a)pyrene	ND	ug/l	0.10	0.10	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Benzo(b)fluoranthene	ND	ug/l	0.18	0.18	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Benzo(k)fluoranthene	ND	ug/l	0.17	0.17	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Chrysene	ND	ug/l	0.15	0.15	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Dibenzo(a,h)anthracene	ND	ug/l	0.30	0.30	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Indeno(1,2,3-cd)pyrene	ND	ug/l	0.43	0.43	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Acenaphthylene	ND	ug/l	2.02	2.00	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Benzo(g,h,i)perylene	ND	ug/l	0.77	0.76	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Phenanthrene	ND	ug/l	0.65	0.64	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
1-Methylnapthalene	6.23	ug/l	1.01	1.00	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
2-Methylnaphthalene	4.81	ug/l	1.01	1.00	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
MISCELLANEOUS CHEMISTRY										
pH	6.50	pH Units			1	12/26/00	8:57	K. Stewart	9040/150.1	1168

ND = Not detected at the report limit.

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 00-A183955
Sample ID: 029-SMW11-Q4-00-07

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH's	990. ml	1.00 ml	12/26/00		J. Rudden	3510/610

Surrogate	% Recovery	Target Range
PAH Surr., p-terphenyl d14	37.	12. - 152.

- Recovery outside Laboratory historical limits.

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Report Approved By: _____ Report Date: 1/ 5/01

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Eric S. Smith, Assistant Technical Director
Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: HRS-E87358

End of Sample Report.

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ANALYTICAL REPORT

ACCURA ANALYTICAL 2656

6017 FINANCIAL DR.
NORCROSS, GA 30071

Project: #26563
Project Name: ACCURA ANALYTICAL LABORA
Sampler:

Lab Number: 00-A183956
Sample ID: 029-DUP-Q4-00-07
Sample Type: Ground water
Site ID:

Date Collected: 12/20/00
Time Collected:
Date Received: 12/22/00
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS										
Naphthalene	ND	ug/l	1.01	1.00	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Acenaphthene	ND	ug/l	1.01	1.00	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Anthracene	ND	ug/l	0.67	0.66	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Fluoranthene	ND	ug/l	0.21	0.21	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Fluorene	ND	ug/l	0.51	0.50	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Pyrene	ND	ug/l	0.27	0.27	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Benzo(a)anthracene	ND	ug/l	0.13	0.13	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Benzo(a)pyrene	ND	ug/l	0.10	0.10	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Benzo(b)fluoranthene	ND	ug/l	0.18	0.18	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Benzo(k)fluoranthene	ND	ug/l	0.17	0.17	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Chrysene	ND	ug/l	0.15	0.15	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Dibenzo(a,h)anthracene	ND	ug/l	0.30	0.30	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Indeno(1,2,3-cd)pyrene	ND	ug/l	0.43	0.43	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Acenaphthylene	ND	ug/l	2.02	2.00	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Benzo(g,h,i)perylene	ND	ug/l	0.77	0.76	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Phenanthrene	ND	ug/l	0.65	0.64	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
1-Methylnapthalene	ND	ug/l	1.01	1.00	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
2-Methylnaphthalene	ND	ug/l	1.01	1.00	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
MISCELLANEOUS CHEMISTRY										
pH	4.20	pH Units			1	12/26/00	8:57	K. Stewart	9040/150.1	1168

ND - Not detected at the report limit.

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 00-A183956
Sample ID: 029-DUP-Q4-00-07

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH's	990. ml	1.00 ml	12/26/00		J. Rudden	3510/610

Surrogate	% Recovery	Target Range
PAH Surr., p-terphenyl d14	39.	12. - 152.

- Recovery outside Laboratory historical limits.

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Report Approved By: E S Smith

Report Date: 1/ 5/01

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director

Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: HRS-E87358

End of Sample Report.

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ANALYTICAL REPORT

ACCURA ANALYTICAL 2656

6017 FINANCIAL DR.
NORCROSS, GA 30071

Project: #26563
Project Name: ACCURA ANALYTICAL LABORA
Sampler:

Lab Number: 00-A183957
Sample ID: 029-EQB-Q4-00-07
Sample Type: Ground water
Site ID:

Date Collected: 12/20/00
Time Collected: 10:50
Date Received: 12/22/00
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS										
Naphthalene	ND	ug/l	1.01	1.00	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Acenaphthene	ND	ug/l	1.01	1.00	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Anthracene	ND	ug/l	0.67	0.66	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Fluoranthene	ND	ug/l	0.21	0.21	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Fluorene	ND	ug/l	0.51	0.50	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Pyrene	ND	ug/l	0.27	0.27	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Benzo(a)anthracene	ND	ug/l	0.13	0.13	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Benzo(a)pyrene	ND	ug/l	0.10	0.10	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Benzo(b)fluoranthene	ND	ug/l	0.18	0.18	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Benzo(k)fluoranthene	ND	ug/l	0.17	0.17	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Chrysene	ND	ug/l	0.15	0.15	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Dibenzo(a,h)anthracene	ND	ug/l	0.30	0.30	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Indeno(1,2,3-cd)pyrene	ND	ug/l	0.43	0.43	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Acenaphthylene	ND	ug/l	2.02	2.00	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Benzo(g,h,i)perylene	ND	ug/l	0.77	0.76	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Phenanthrene	ND	ug/l	0.65	0.64	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
1-Methylnapthalene	ND	ug/l	1.01	1.00	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
2-Methylnaphthalene	ND	ug/l	1.01	1.00	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
MISCELLANEOUS CHEMISTRY										
pH	6.70	pH Units			1	12/26/00	9:00	K. Stewart	9040/150.1	1168

ND - Not detected at the report limit.

Sample report continued . . .

TestAmerica
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ANALYTICAL REPORT

Laboratory Number: 00-A183957
Sample ID: 029-EQB-Q4-00-07

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH's	990. ml	1.00 ml	12/26/00		J. Rudden	3510/610

Surrogate	% Recovery	Target Range
PAH Surr., p-terphenyl d14	75.	12. - 152.

- Recovery outside Laboratory historical limits.

These results relate only to the items tested.
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By: _____ Report Date: 1/ 5/01

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director
Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: HRS-E87358

End of Sample Report.

2960 Foster Creighton Drive / Nashville,TN 37204 / 615-726-0177 / Fax: 615-726-0954 / 800-765-0980

TestAmerica
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PROJECT QUALITY CONTROL DATA

Matrix Spike Recovery

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
UST ANALYSIS								
Naphthalene	mg/l	0.0112	0.128	0.0100	1170#	10. - 116.	5773	00-A183955
Acenaphthene	mg/l	< 0.00101	0.00440	0.0100	44	10. - 101.	5773	00-A183955
Anthracene	mg/l	< 0.00067	0.0114	0.0100	114#	10. - 100.	5773	00-A183955
Fluoranthene	mg/l	< 0.00021	0.0128	0.0100	128	37. - 137.	5773	00-A183955
Fluorene	mg/l	< 0.00051	0.0114	0.0100	114#	17. - 96.	5773	00-A183955
Pyrene	mg/l	< 0.00027	0.0132	0.0100	132#	26. - 129.	5773	00-A183955
Benzo(a)anthracene	mg/l	< 0.00013	0.0104	0.0100	104	29. - 130.	5773	00-A183955
Benzo(a)pyrene	mg/l	< 0.00010	0.00900	0.0100	90	22. - 128.	5773	00-A183955
Benzo(b)fluoranthene	mg/l	< 0.00018	0.0114	0.0100	114	27. - 130.	5773	00-A183955
Benzo(k)fluoranthene	mg/l	< 0.00017	0.00960	0.0100	96	26. - 134.	5773	00-A183955
Chrysene	mg/l	< 0.00015	0.00900	0.0100	90	25. - 132.	5773	00-A183955
Dibenzo(a,h)anthracene	mg/l	< 0.00030	0.0108	0.0100	108	18. - 136.	5773	00-A183955
Indeno(1,2,3-cd)pyrene	mg/l	< 0.00043	0.00880	0.0100	88	18. - 135.	5773	00-A183955
Acenaphthylene	mg/l	< 0.00202	0.00500	0.0100	50	10. - 110.	5773	00-A183955
Benzo(g,h,i)perylene	mg/l	< 0.00077	0.00880	0.0100	88	24. - 135.	5773	00-A183955
Phenanthrene	mg/l	< 0.00065	0.0156	0.0100	156#	17. - 108.	5773	00-A183955
1-Methylnapthalene	mg/l	0.00623	0.0716	0.0100	654#	10. - 122.	5773	00-A183955
2-Methylnaphthalene	mg/l	0.00481	0.0474	0.0100	426#	10. - 109.	5773	00-A183955

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
UST PARAMETERS						
Naphthalene	mg/l	0.128	0.156	19.72	70.	5773
Acenaphthene	mg/l	0.00440	0.00480	8.70	77.	5773
Anthracene	mg/l	0.0114	0.0144	23.26	62.	5773
Fluoranthene	mg/l	0.0128	0.0164	24.66	64.	5773
Fluorene	mg/l	0.0114	0.0138	19.05	61.	5773
Pyrene	mg/l	0.0132	0.0164	21.62	62.	5773
Benzo(a)anthracene	mg/l	0.0104	0.0122	15.93	59.	5773
Benzo(a)pyrene	mg/l	0.00900	0.00860	4.55	62.	5773

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
Benzo(b)fluoranthene	mg/l	0.0114	0.00920	21.36	59.	5773
Benzo(k)fluoranthene	mg/l	0.00960	0.00960	0.00	59.	5773
Chrysene	mg/l	0.00900	0.0110	20.00	58.	5773
Dibenzo(a,h)anthracene	mg/l	0.0108	0.00680	45.45	64.	5773
Indeno(1,2,3-cd)pyrene	mg/l	0.00880	0.00800	9.52	70.	5773
Acenaphthylene	mg/l	0.00500	< 0.00400	22.22	91.	5773
Benzo(g,h,i)perylene	mg/l	0.00880	0.00620	34.67	69.	5773
Phenanthrene	mg/l	0.0156	0.0184	16.47	65.	5773
1-Methylnapthalene	mg/l	0.0716	0.0886	21.22	31.	5773
2-Methylnaphthalene	mg/l	0.0474	0.0588	21.47	79.	5773

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
UST PARAMETERS						
Naphthalene	mg/l	0.0100	0.0156	156 #	20 - 151	5773
Acenaphthene	mg/l	0.0100	0.00820	82	18 - 134	5773
Anthracene	mg/l	0.0100	0.0122	122 #	38 - 97	5773
Fluoranthene	mg/l	0.0100	0.0136	136	40 - 143	5773
Fluorene	mg/l	0.0100	0.0124	124 #	33 - 105	5773
Pyrene	mg/l	0.0100	0.0126	126	33 - 129	5773
Benzo(a)anthracene	mg/l	0.0100	0.0132	132 #	47 - 113	5773
Benzo(a)pyrene	mg/l	0.0100	0.0126	126 #	34 - 119	5773
Benzo(b)fluoranthene	mg/l	0.0100	0.0128	128 #	47 - 113	5773
Benzo(k)fluoranthene	mg/l	0.0100	0.0130	130 #	48 - 118	5773
Chrysene	mg/l	0.0100	0.0152	152 #	45 - 115	5773
Dibenzo(a,h)anthracene	mg/l	0.0100	0.0150	150 #	42 - 113	5773
Indeno(1,2,3-cd)pyrene	mg/l	0.0100	0.0128	128 #	38 - 114	5773
Acenaphthylene	mg/l	0.0100	0.0124	124	20 - 140	5773
Benzo(g,h,i)perylene	mg/l	0.0100	0.0128	128	42 - 130	5773
Phenanthrene	mg/l	0.0100	0.0128	128 #	37 - 105	5773
1-Methylnapthalene	mg/l	0.0100	0.00920	92	10 - 118	5773
2-Methylnaphthalene	mg/l	0.0100	0.00800	80	10 - 118	5773

Project QC continued . . .

TestAmerica
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PROJECT QUALITY CONTROL DATA

Duplicates

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch	Sample Dup'd
pH	pH Units	6.50	6.50	0.00	15.	1168	00-A183955

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
UST PARAMETERS					
Naphthalene	< 0.00100	mg/l	5773	1/ 4/01	19:40
Acenaphthene	< 0.00100	mg/l	5773	1/ 4/01	19:40
Anthracene	< 0.00066	mg/l	5773	1/ 4/01	19:40
Fluoranthene	< 0.00021	mg/l	5773	1/ 4/01	19:40
Fluorene	< 0.00050	mg/l	5773	1/ 4/01	19:40
Pyrene	< 0.00027	mg/l	5773	1/ 4/01	19:40
Benzo(a)anthracene	< 0.00013	mg/l	5773	1/ 4/01	19:40
Benzo(a)pyrene	< 0.00010	mg/l	5773	1/ 4/01	19:40
Benzo(b)fluoranthene	< 0.00018	mg/l	5773	1/ 4/01	19:40
Benzo(k)fluoranthene	< 0.00017	mg/l	5773	1/ 4/01	19:40
Chrysene	< 0.00015	mg/l	5773	1/ 4/01	19:40
Dibenzo(a,h)anthracene	< 0.00030	mg/l	5773	1/ 4/01	19:40
Indeno(1,2,3-cd)pyrene	< 0.00043	mg/l	5773	1/ 4/01	19:40
Acenaphthylene	< 0.00200	mg/l	5773	1/ 4/01	19:40
Benzo(g,h,i)perylene	< 0.00076	mg/l	5773	1/ 4/01	19:40
Phenanthrene	< 0.00064	mg/l	5773	1/ 4/01	19:40
1-Methylnapthalene	< 0.00100	mg/l	5773	1/ 4/01	19:40
2-Methylnaphthalene	< 0.00100	mg/l	5773	1/ 4/01	19:40
PAH Surr., p-terphenyl d14	96.	% Rec	5773	1/ 4/01	19:40

- Value outside Laboratory historical QC limits.

End of Report for Project 220787

ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

FAX COC TO NORCROSS

220787 **SUBCONTRACTOR CHAIN OF CUSTODY**

SUBCONTRACTED TO: **TEST AMERICA, INC.**

Subcontracted by: ACCURA ANALYTICAL LABORATORY, INC (Acct# 2656)
Address: 6017 Financial Drive, Norcross, GA 30071
Accura Lab Contact Name: ~~Mr. David Fuller~~ Ms. Bonnie Hogue
Contact Phone # (770) 449 - 8800, ext. ~~204~~ 233
Fax Number: (770) 449 - 5477

AAL PROJECT #: ~~25~~ 26563
Quote Number: 030100102199

12/21/00 DH

12/21/00 DH

For Laboratory Use Only

Custody Seal: (Y) N
QC Level: N 1 2 3 4
Entered into LIMS: 12/22/00
Sample Condition:
Page 1 OF 1
Init/Temp: 2.5°C
LAB Project # 220787

AAL #	Sample Date / Time	Comp	Grab	Matrix	Preserved	Station Location:	No. of Containers	PAH's (8310)	Remarks	LAB #
AC	12/20/00 09:30		X	W	4°	029-SMW01-Q4-00-07	2	X	*CCI-NAVY	183950
AC	12:10					029-SMW02-Q4-00-07	2		DATA PACKAGE III/C	951
AC	10:40					029-SMW03-Q4-00-07	2		REQUIRED.	952
AC	14:05					029-SMW07-Q4-00-07	2			953
AC	13:25					029-SMW10-Q4-00-07	2			954
AC	11:25					029-SMW11-Q4-00-07	4		MS/MSD	955
AC						029-DUP-Q4-00-07	2			956
AC	10:50					029-EQB-Q4-00-07	2			183957
AC										
AC										

Relinquished By:	Date / Time	Received By:	Date / Time	Special Requirements Or Remarks:
[signature]	12/21/00 12:19	[signature]	12/21 12:20	12/21/00 DH ~~PLEASE FAX RESULTS!!~~ PAR PRELIMINARY
Relinquished By: [signature]	Date / Time 12/21 17:00	Received By: [signature]	Date / Time	Turnaround Time Requested: 14 day Preliminary / 21 day Final

Matrix Guide: (S = Soil) (W = Water) (L = Liquid) (C = Cartridge) (SL = Sludge) (A = Air Sample) (F = Foods) (M = Miscellaneous) (D = Digestate)

TestAmerica-sub-coc
Revised 05/10/00