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THIRD QUARTER 2002 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

7/1/2003

CH2MHILL CONSTRUCTORS INC

Third Quarter 2002
Operations and Maintenance Status Report

Air Sparging and Soil Vapor Extraction System
103rd Street and "A" Avenue
Jet Fuel Transfer Pipeline

Naval Air Station Cecil Field
Jacksonville, Florida

Contract No. N62467-98-D-0995
Contract Task Order No. 0062

Submitted to:

U.S. Naval Facilities
Engineering Command
Southern Division

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July 2003

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Acronyms

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	U.S. 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 Liquids
NAS	Naval Air Station
NAVFAC	Naval Facilities Engineering Command
O&M	Operation and Maintenance
psi	pounds per square inch
RAP	Remedial Action Plan
scfm	standard cubic feet per minute
SCTLs	Soil Cleanup Target Levels
SVE	soil vapor extraction
SVOC	semi-volatile organic compound
TRPH	total recoverable pertoleum hydrocarbon
TtNUS	Tetra Tech NUS
VOC	volatile organic compound

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 operation and maintenance (O&M) services at 103rd Street and "A" Avenue Jet Fuel Transfer Pipeline (103rd Street and "A" Avenue), Naval Air Station (NAS) Cecil Field, Jacksonville, Florida, under Response Action Contract No. N62467-98-D-0995, Contract Task Order (CTO) No. 0062.

Air sparging (AS) and soil vapor extraction (SVE) systems were installed at the 103rd Street site to reduce the concentration and volume of petroleum hydrocarbon contaminants in site groundwater and unsaturated soils. The purpose of this 3rd Quarter 2002 Operation and Maintenance Status Report is to provide a summary of activities performed at the site during the period from June 1, 2002, to September 30, 2002.

1.1 Objective

The objective of the remedial action at 103rd Street and "A" Avenue is to reduce the concentrations and volume of petroleum contaminants in the groundwater and unsaturated soils to Florida Department of Environmental Protection (FDEP) Groundwater Cleanup Target Levels (GCTLs) and Soil Cleanup Target Levels (SCTLs), as specified in Tables I and II of Chapter 62-777, Florida Administrative Code (FAC). AS and SVE are the two technologies currently 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 NAS Cecil Field. An 8-inch diameter, steel pipeline was completed in 1952 to transfer jet fuel from NAS Jacksonville to NAS Cecil Field. A small leak (1/8-inch diameter) was discovered in July 1997 in the pipeline located beneath the eastbound lane of 103rd Street. 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 (Tetra Tech NUS [TtNUS], 1999).

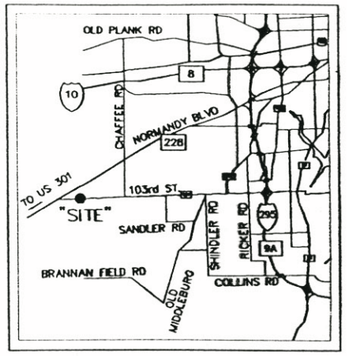
Site assessment activities performed by TtNUS identified the presence of light non-aqueous phase liquid (LNAPL) and soil and groundwater contamination at the site. A Remedial Action Plan (RAP) was submitted in August 1999 that specified AS and SVE as the remedial alternatives to address the soil and groundwater contamination at the site (TtNUS, 1999). The AS and SVE systems were constructed by CCI and system start-up was initiated on May 23, 2000. The system has been operated and maintained by CCI since start-up.

1.3 Remediation System/Technology Description

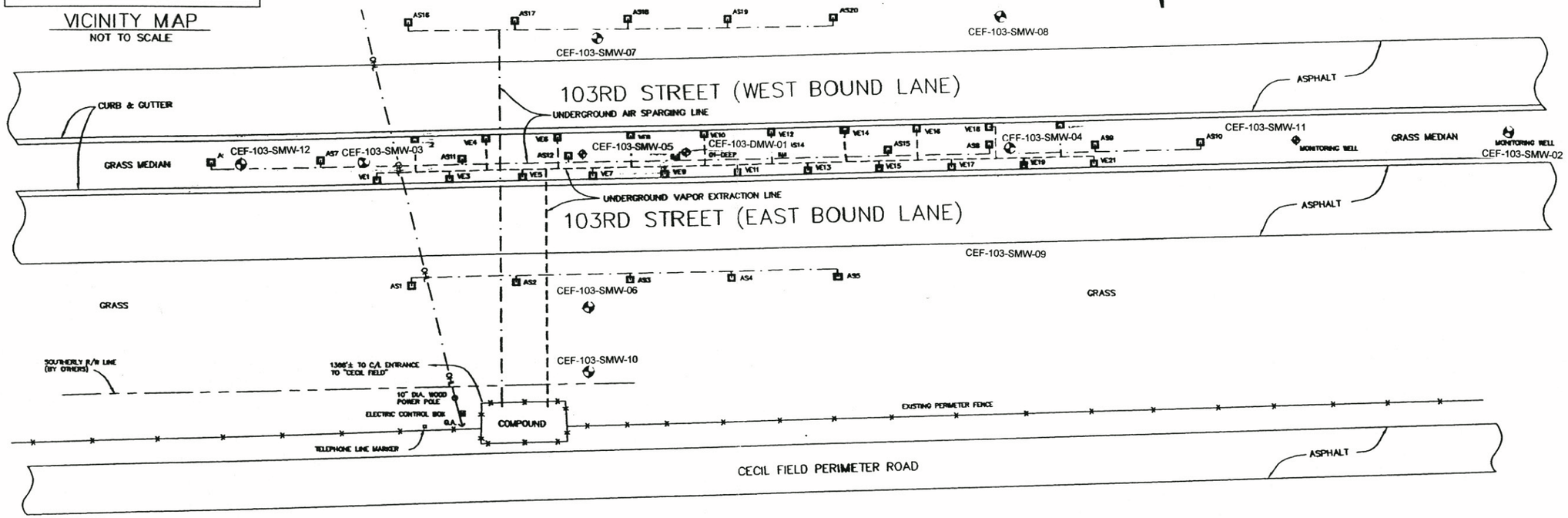
Air sparging is a physical treatment method of expediting the transfer of volatile organic compounds (VOCs) from the soil and groundwater to the sparging air for eventual removal of contaminant-laden air using a SVE system. Atmospheric air is injected into air sparge wells, which are screened within 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 such that the sparge air is captured and removed from the subsurface. SVE is performed by applying a negative pressure, or vacuum, to wells screened 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 103rd Street and "A" Avenue AS system consists of 22 air sparging wells (AS-1 through AS-22), a rotary screw-type compressor, a receiver tank, and associated piping and instrumentation. The air sparging wells are screened from approximately 22 to 25 feet below land surface (bls). The AS 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). AS wells AS-1 through AS-20 were installed by May 2000. In April 2002, two additional AS wells (AS-21 and AS-22) were installed in the vicinity of well CEF-103-SMW-11 (CCI, 2003). These wells began operation on May 2, 2002. The locations of the air sparge wells are shown on Figure 1-1.

The SVE system at the 103rd Street and "A" Avenue site consists of 21 vertical vapor extraction 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 (Hg) at the wellhead. The locations of the SVE wells are shown on Figure 1-1.



VICINITY MAP
NOT TO SCALE



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

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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
Air Sparging/SVE 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 weekly during the monitoring period. During an O&M check, a preventative maintenance checklist (based upon manufacturers' recommendations) is completed, and any required maintenance activity is performed. All meters and gauges at the system are read and recorded during the O&M check. Well vault gauges and meters are read on a monthly basis.

The SVE system was deactivated on September 9, 2002, and three of the four AS system legs were deactivated on September 20, 2002, with approval from FDEP (FDEP, July 2002). The systems were deactivated because contaminant concentrations were below FDEP GCTLs for three consecutive quarters in all monitoring wells except CEF-103-SMW-11. One leg of the AS system that includes the new AS wells (AS 21 and AS 22) continued operation to further reduce contaminant concentrations in the vicinity of monitoring well CEF 103-SMW-11. The other AS wells on the leg with AS 21 and AS 22 (AS 8, AS 9, AS 10, AS 14, and AS 15) continued operation to prevent the air compressor from cycling due to overcapacity.

2.1 Operational Efficiencies

	Period	To Date
Air Sparging System		
Hours of Possible Operation	2,928	20,640
Hours of Actual Operation	2,303	14,598
Percent Hours of Operation	78.7	70.7
Soil Vapor Extraction System		
Hours of Possible Operation	2,424	20,136
Hours of Actual Operation	2,341	16,164
Percent Hours of Operation	96.6	80.3

2.2 Summary of Maintenance and System Downtime

2.2.1 Air Sparging System

During the period from June 1 to September 30, 2002, the AS system ran a total of 96 days out of a possible 122 days resulting in 625 hours of downtime. The AS system downtime is detailed as follows:

- Down for a total of 453 hours due to power interruptions. After each occurrence, the panel alarm was reset and the air compressor was restarted.
- Manually shut down for a total of 144 hours to repair a leaking fitting on the air compressor oiling system. The fitting was special ordered. Replaced the fitting and restarted the AS system.

- Manually shut down for a total of 26 hours for the 3rd Quarter 2002 groundwater sampling event. Restarted the AS system after the sampling event was completed.
- Manually shut down for a total of 2 hours to install a ball valve on each of the four legs of the air compressor discharge manifold so that each leg could be shut off individually. Restarted the system after the installation was completed.

2.2.2 SVE System

During the period from June 1 to September 9, 2002, the SVE system ran a total of 97.5 days out of a possible 101 days, resulting in 83 hours of downtime. The SVE system was deactivated on September 9, 2002, with approval from FDEP (FDEP, July 2002). The SVE system downtime is detailed as follows:

- Downtime for a total of 83 hours for high level in the moisture separator water storage tank. This was the result of water being drawn into the SVE wells during rain events. After each occurrence, the water in the storage tank was removed for proper disposal and the system was restarted.

2.3 Pressure/Flow Rate Monitoring

2.3.1 Air Sparge System

During the 3rd Quarter 2002 monitoring period, injection pressure was measured at each AS wellhead on a monthly basis with the exception of August 2002. No AS wellhead readings were collected in August 2002, due to possible system turnover to another operator. Only system pressures and flow rates were measured in August 2002. The 3rd Quarter AS wellhead pressure data is provided in Table 2-1.

The wellhead pressures for the operating AS wells during the 3rd Quarter 2002 averaged 9.3 psi, compared to the design pressure of 9 psi.

2.3.2 Vapor Extraction System

During the 3rd Quarter 2002, vacuum pressure and flow rates were measured at each vapor extraction wellhead on a monthly basis with the exception of August 2002. No vapor extraction wellhead readings were collected in August 2002 due to possible system turnover to another operator. Only system vacuum pressure and flow rates were measured in August 2002. The 3rd Quarter vapor extraction wellhead flows and vacuum pressure data are provided in Table 2-2.

During the 3rd Quarter 2002, the wellhead vacuum pressures for the SVE wells averaged 26.5 inches of water column, compared to the design vacuum pressure of 54 inches of water column. The actual wellhead vacuum is maintained at a level that is less than the design wellhead vacuum to minimize the groundwater/rainwater drawn into the vapor extraction wells due to the shallow water table. The average total flow rate for the vapor extraction system was approximately 800 standard cubic feet per minute (scfm) during the 3rd Quarter, compared to the design flow rate of 350 scfm. The airflow rates averaged 38.1 scfm for each extraction well compared to the design extraction flow rate of 16 to 17 scfm per well. The

vapor extraction flow rates were increased in an attempt to keep water from collecting in the piping system.

2.4 Water Level Measurements

Depth to groundwater measurements were recorded on a monthly basis from 13 monitoring wells during the 3rd Quarter 2002 with the exception of August 2002 due to possible turnover of system operations to another operator. The results from the 3rd Quarter 2002 groundwater level measurement surveys are provided in Table 2-3. LNAPL was not detected in monitoring wells during the 3rd Quarter 2002.

The potentiometric surface of the groundwater at the site based on June 26, 2002, water levels is depicted on Figure 2-1. In general, the groundwater at the site flows radially from the area in the vicinity of monitoring wells CEF-103-SWM-03, -05, and –07 to the east, south and west.

TABLE 2-1
Air Sparge System Well Measurements

AS Well	Date	Wellhead Flow (acfm)	Wellhead Pressure (psi)
AS-1	06/26/2002	NR	9
	07/29/2002	NR	8
	08/30/2002	NR	NR
	09/20/2002	0	0
AS-2	06/26/2002	NR	9
	07/29/2002	NR	9
	08/30/2002	NR	NR
	09/20/2002	0	0
AS-3	06/26/2002	NR	9
	07/29/2002	NR	8
	08/30/2002	NR	NR
	09/20/2002	0	0
AS-4	06/26/2002	NR	9
	07/29/2002	NR	10
	08/30/2002	NR	NR
	09/20/2002	0	0
AS-5	06/26/2002	NR	10
	07/29/2002	NR	10
	08/30/2002	NR	NR
	09/20/2002	0	0
AS-6	06/26/2002	NR	9
	07/29/2002	NR	8
	08/30/2002	NR	NR
	09/20/2002	0	0
AS-7	06/26/2002	NR	9
	07/29/2002	NR	9
	08/30/2002	NR	NR
	09/20/2002	0	0
AS-8	06/26/2002	NR	10
	07/29/2002	NR	10
	08/30/2002	NR	NR
	09/20/2002	2	10
AS-9	06/26/2002	NR	9
	07/29/2002	NR	9
	08/30/2002	NR	NR
	09/20/2002	2	14
AS-10	No recordings due to malfunctioning flow meter		
AS-11	06/26/2002	NR	10
	07/29/2002	NR	10
	08/30/2002	NR	NR
	09/20/2002	0	0
AS-12	06/26/2002	NR	10
	07/29/2002	NR	10
	08/30/2002	NR	NR
	09/20/2002	0	0
AS-13	06/26/2002	NR	10
	07/29/2002	NR	10
	08/30/2002	NR	NR
	09/20/2002	0	0
AS-14	06/26/2002	NR	10
	07/29/2002	NR	9
	08/30/2002	NR	NR

TABLE 2-1
Air Sparge System Well Measurements

AS Well	Date	Wellhead Flow (acfm)	Wellhead Pressure (psi)
	09/20/2002	2	10
AS-15	06/26/2002	NR	9
	07/29/2002	NR	9
	08/30/2002	NR	NR
	09/20/2002	2	10
AS-16	06/26/2002	NR	8
	07/29/2002	NR	9
	08/30/2002	NR	NR
	09/20/2002	0	0
AS-17	06/26/2002	NR	8
	07/29/2002	NR	9
	08/30/2002	NR	NR
	09/20/2002	0	0
AS-18	06/26/2002	NR	9
	07/29/2002	NR	8
	08/30/2002	NR	NR
	09/20/2002	0	0
AS-19	06/26/2002	NR	9
	07/29/2002	NR	9
	08/30/2002	NR	NR
	09/20/2002	0	0
AS-20	06/26/2002	NR	8
	07/29/2002	NR	NR
	08/30/2002	NR	NR
	09/20/2002	0	0
AS-21	06/26/2002	50	11
	07/29/2002	20	11
	08/30/2002	NR	NR
	09/20/2002	170	9
AS-22	06/26/2002	55	9.5
	07/29/2002	30	10
	08/30/2002	NR	NR
	09/20/2002	160	8.5

Note: AS wells (AS-1 through 7, AS-11 through 13, and AS-16 through 20) were inactive on 09/20/2002

NR = not recorded
psi = pounds per square inch
acfm = actual cubic feet per minute

TABLE 2-2
SVE System Well Measurements

SVE Well	Date	Wellhead Vacuum (in H_2O)	Wellhead Flow (scfm)
VEW-1	06/26/2002	34	164.7
	07/29/2002	16	75.4
	08/30/2002	NM	NM
VEW-2	06/26/2002	35	40.3
	07/29/2002	11	17.0
	08/30/2002	NM	NM
VEW-3	06/26/2002	36	135.5
	07/29/2002	11	46.5
	08/30/2002	NM	NM
VEW-4	06/26/2002	35	49.3
	07/29/2002	20	23.7
	08/30/2002	NM	NM
VEW-5	06/26/2002	36	0.0
	07/29/2002	11	17.0
VEW-6	06/26/2002	35	23.3
	07/29/2002	15	26.7
	08/30/2002	NM	NM
VEW-7	06/26/2002	35	20.1
	07/29/2002	18	16.8
	08/30/2002	NM	NM
VEW-8	06/26/2002	37	20.1
	07/29/2002	35	32.9
	08/30/2002	NM	NM
VEW-9	06/26/2002	35	45.0
	07/29/2002	38	20.1
	08/30/2002	NM	NM
VEW-10	06/26/2002	35	26.0
	07/29/2002	28	16.6
	08/30/2002	NM	NM
VEW-11	06/26/2002	35	32.9
	07/29/2002	24	39.1
	08/30/2002	NM	NM
VEW-12	06/26/2002	35	28.5
	07/29/2002	14	20.7
	08/30/2002	NM	NM
VEW-13	06/26/2002	32	30.9
	07/29/2002	12	16.9
	08/30/2002	NM	NM
VEW-14	06/26/2002	35	20.1
	07/29/2002	12	16.9
	08/30/2002	NM	NM
VEW-15	06/26/2002	15	44.7
	07/29/2002	13	41.5
	08/30/2002	NM	NM
VEW-16	06/26/2002	36	20.1
	07/29/2002	10	17.0
	08/30/2002	NM	NM

TABLE 2-2
SVE System Well Measurements

SVE Well	Date	Wellhead Vacuum (in H_2O)	Wellhead Flow (scfm)
VEW-17	06/26/2002	35	23.3
	07/29/2002	10	17.0
	08/30/2002	NM	NM
VEW-18	06/26/2002	35	23.3
	07/29/2002	35	58.2
	08/30/2002	NM	NM
VEW-19	06/26/2002	35	68.8
	07/29/2002	36	30.7
	08/30/2002	NM	NM
VEW-20	06/26/2002	35	36.8
	07/29/2002	16	23.8
	08/30/2002	NM	NM
VEW-21	06/26/2002	35	125.3
	07/29/2002	11	46.5
	08/30/2002	NM	NM

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

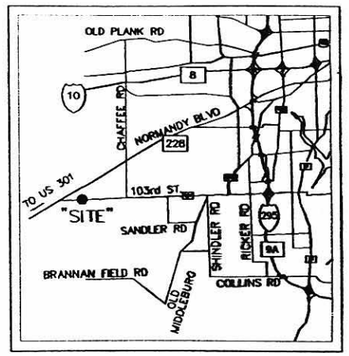
TABLE 2-3
Water Level Measurements

Well Identification	Date	Top of Casing Elevation (feet MSL)	Depth to Groundwater (feet bgs)	Groundwater Elevation (feet MSL)
CEF-103-SMW-01	06/26/2002	81.85	5.05	76.80
	07/29/2002		1.78	80.07
	08/30/2002		NM	NM
	09/12/2002		3.77	78.08
CEF-103-SMW-02	06/26/2002	82.30	5.78	76.52
	07/29/2002		3.25	79.05
	08/30/2002		NM	NM
	09/12/2002		5.11	77.19
CEF-103-SMW-03	06/26/2002	82.03	4.95	77.08
	07/29/2002		3.58	78.45
	08/30/2002		NM	NM
	09/12/2002		7.85	74.18
CEF-103-SMW-04	06/26/2002	82.23	6.45	75.78
	07/29/2002		2.74	79.49
	08/30/2002		NM	NM
	09/12/2002		7.65	74.58
CEF-103-SMW-05	06/26/2002	82.37	5.53	76.84
	07/29/2002		2.95	79.42
	08/30/2002		NM	NM
	09/12/2002		5.16	77.21
CEF-103-SMW-06	06/26/2002	77.33	0.40	76.93
	07/29/2002		0.00	77.33
	08/30/2002		NM	NM
	09/12/2002		3.15	74.18
CEF-103-SMW-07	06/26/2002	79.35	1.78	77.57
	07/29/2002		2.65	76.70
	08/30/2002		NM	NM
	09/12/2002		4.40	74.95
CEF-103-SMW-08	06/26/2002	79.55	3.09	76.46
	07/29/2002		2.52	77.03
	08/30/2002		NM	NM
	09/12/2002		2.60	76.95
CEF-103-SMW-09	06/26/2002	79.67	3.30	76.37
	07/29/2002		1.15	78.52
	08/30/2002		NM	NM
	09/12/2002		2.96	76.71
CEF-103-SMW-10	06/26/2002	77.29	1.75	75.54
	07/29/2002		0.30	76.99
	08/30/2002		NM	NM
	09/12/2002		0.75	76.54
CEF-103-SMW-11	06/26/2002	82.48	6.14	76.34
	07/29/2002		3.15	79.33
	08/30/2002		NM	NM
	09/12/2002		6.88	75.60

TABLE 2-3
Water Level Measurements

Well Identification	Date	Top of Casing Elevation (feet MSL)	Depth to Groundwater (feet bgs)	Groundwater Elevation (feet MSL)
CEF-103-SMW-12	06/26/2002	82.04	5.61	76.43
	07/29/2002		2.59	79.45
	08/30/2002		NM	NM
	09/12/2002		4.39	77.65
CEF-103-DMW-01	06/26/2002	82.40	7.35	75.05
	07/29/2002		4.26	78.14
	08/30/2002		NM	NM
	09/12/2002		4.78	77.62

Notes:
Top of Casing Elevations is referenced to National Geodetic Vertical Datum 1929 (NGVD 1929).
All measurements reported in feet.
bgs = below ground surface
MSL = Elevations are respect to Mean Sea Level
NM = Not Measured



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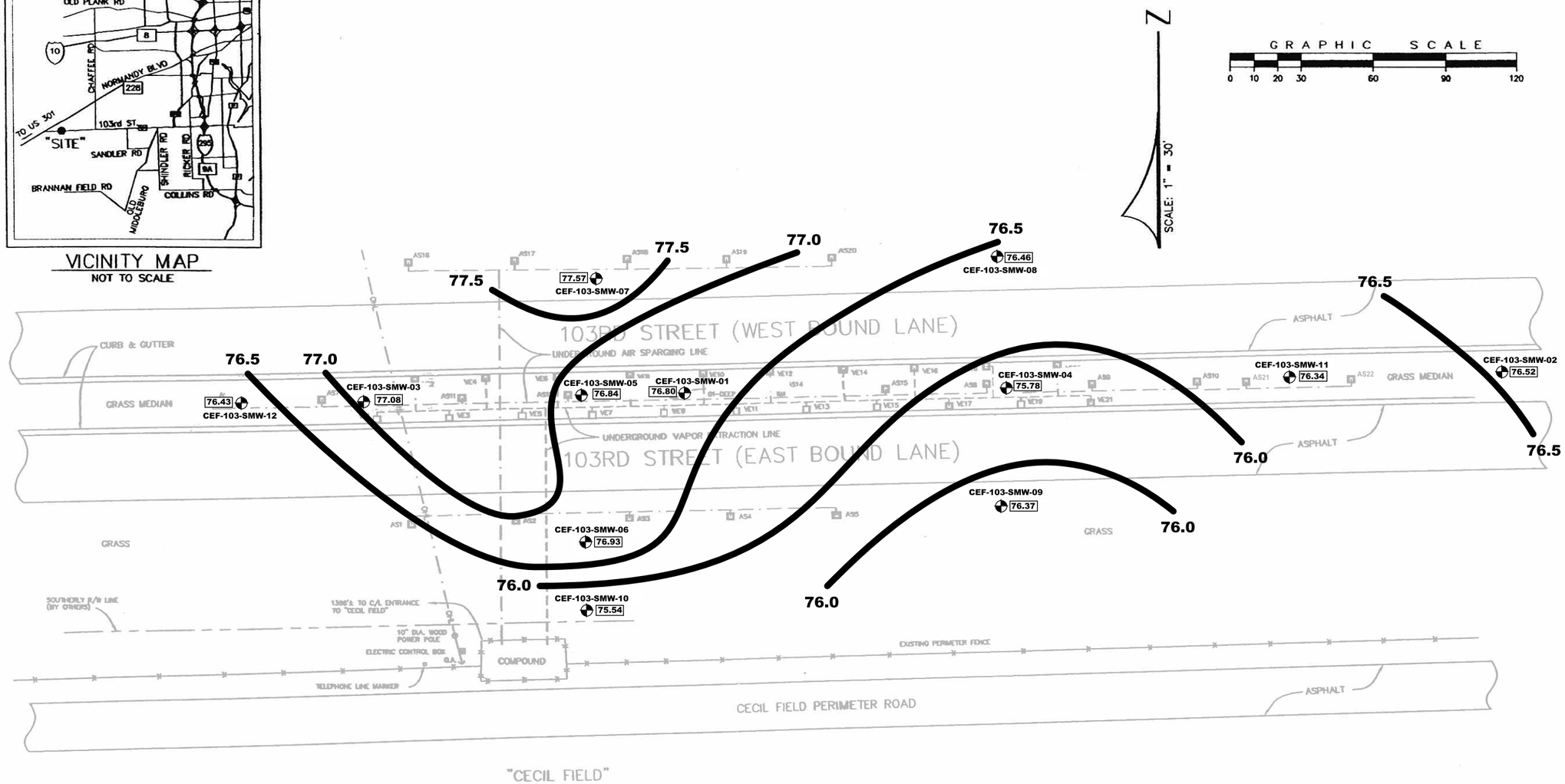

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UNDERGROUND AIR SPARGING LINE

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

Monitoring Well

74.22 Water Level Elevation (Feet MSL)

74.22 Water Elevation Contour (Feet MSL)

Figure 2-1
Potentiometric Surface Map-June 26, 2002
103rd Street and A Avenue
Jet Fuel Transfer Pipeline
NAS Cecil Field
Jacksonville, Florida

CH2MHILL

A032003004ATL\Cecil Field 111.fh8

3.0 Summary of Sampling and Laboratory Analytical Results

The data validation report is provided in Appendix A. Air and groundwater monitoring are described below.

3.1 Vapor Monitoring

The SVE effluent was sampled monthly for analysis 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 C, and analytical results are summarized in Table 3-1.

3.2 Groundwater Monitoring

CCI conducted the 3rd Quarter 2002 groundwater sampling event on September 13, 2002. Groundwater samples were collected from nine onsite monitoring wells (CEF-103-SMW-01, -02, -03, -04, -05, -06, -07, -10, and -11) and laboratory analyzed for VOCs by EPA Method 8260B, semi-volatile organic compounds by USEPA Method 8310, lead by EPA Method 6010B, and Total Recoverable Petroleum Hydrocarbons (TRPH) by the Florida Petroleum Organic (FL-PRO) Method. The 3rd Quarter 2002 groundwater laboratory analytical results are summarized in Table 3-2. Historic groundwater analytical results are provided in Table 1 of the Appendix A. A site map showing the locations of the monitoring wells are shown on Figure 1-1. Copies of the analytical laboratory reports from the groundwater sampling events are provided in Appendix D.

Field parameters consisting of pH, temperature, dissolved oxygen (DO), and specific conductivity were measured during purging of the monitoring wells. The field parameters are summarized in Table 3-3.

Lead was the only parameter detected (two groundwater samples from wells CEF-SMW-03 and –11) at concentrations above a GCTL during the 3rd Quarter 2002. Historically, lead was detected above the GCTL in a majority of the wells at the site. Concentrations of lead greater than the GCTL have historically been detected in all the shallow monitoring wells since before system startup. The AS/SVE system does not remove lead from the subsurface. The detection of lead may be attributed to elevated turbidity. High turbidity or suspended solids (introduced during sample collection) may result in high concentrations of dissolved metals that are actually naturally occurring metals absorbed onto suspended solids.

Since system startup in May 2000, groundwater contaminant concentrations other than lead have been below the FDEP GCTLs in the site monitoring wells with the exception of well CEF-103-SMW-11. Monitoring well CEF-103-SMW-11 was located outside the treatment zone of the AS system until the AS system was extended to include the CEF-103-SMW-11 area with AS wells AS-21 and AS-22. Since operation of wells AS-21 and AS-22 began on May 2, 2002, the groundwater contaminant concentrations with the exception of lead in CEF-103-SMW-11 have decreased to below GCTLs.

TABLE 3-1
Air Analytical Results

	StationID:	SVE Effluent	SVE Effluent	SVE Effluent	SVE Effluent
	Client Sample ID:	SVE-E-A-0610-02-25	SVE-E-A-0715-02-26	SVE-E-A-0821-02-27	SVE-E-A-0909-02-28
	Date Collected	06/10/02	07/15/02	08/21/02	09/09/02
Parameter	**Units**				
1,1,1-Trichloroethane	mg/m^3	60 U	60 U	60 U	70 U
1,1,2,2-Tetrachloroethane	mg/m^3	60 U	60 U	60 U	70 U
1,1,2-Trichloroethane	mg/m^3	60 U	60 U	60 U	70 U
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/m^3	60 U	60 U	60 U	70 U
1,1-Dichloroethane	mg/m^3	60 U	60 U	60 U	70 U
1,1-Dichloroethene	mg/m^3	60 U	60 U	60 U	70 U
1,2,4-Trichlorobenzene	mg/m^3	60 U	60 U	60 U	70 U
1,2,4-Trimethylbenzene	mg/m^3	60 U	60 U	60 U	70 U
1,2-Dibromoethane (Ethylene dibromide)	mg/m^3	60 U	60 U	60 U	70 U
1,2-Dichloroethane	mg/m^3	60 U	60 U	60 U	70 U
1,2-Dichlorobenzene	mg/m^3	60 U	60 U	60 U	70 U
1,3-Dichlorobenzene	mg/m^3	60 U	60 U	60 U	70 U
1,4-Dichlorobenzene	mg/m^3	60 U	60 U	60 U	70 U
1,2-Dichloropropane	mg/m^3	60 U	60 U	60 U	70 U
1,3,5-Trimethylbenzene (Mesitylene)	mg/m^3	60 U	60 U	60 U	70 U
2-Chlorotoluene	mg/m^3	60 U	60 U	60 U	70 U
4-Ethyltoluene	mg/m^3	60 U	60 U	60 U	70 U
Benzene	mg/m^3	60 U	60 U	60 U	70 U
Bromoform	mg/m^3	60 U	60 U	60 U	70 U
Bromomethane	mg/m^3	60 U	60 U	60 U	70 U
Bromodichloromethane	mg/m^3	60 U	60 U	60 U	70 U
Carbon disulfide	mg/m^3	60 U	60 U	60 U	70 U
Carbon tetrachloride	mg/m^3	60 U	60 U	60 U	70 U
Chlorobenzene	mg/m^3	60 U	60 U	60 U	70 U
Chloroethane	mg/m^3	60 U	60 U	60 U	70 U
Chloroform	mg/m^3	60 U	60 U	60 U	70 U
Chloromethane	mg/m^3	60 U	60 U	60 U	70 U
cis-1,2-Dichloroethene	mg/m^3	60 U	60 U	60 U	70 U
cis-1,3-Dichloropropene	mg/m^3	60 U	60 U	60 U	70 U
Dibromochloromethane	mg/m^3	60 U	60 U	60 U	70 U
Dichlorodifluoromethane	mg/m^3	60 U	60 U	60 U	70 U
Dichlorotetrafluoroethane	mg/m^3	60 U	60 U	60 U	70 U
Ethylbenzene	mg/m^3	60 U	60 U	60 U	70 U
Hexachlorobutadiene	mg/m^3	60 U	NA	60 U	70 U
Hexane	mg/m^3	60 U	60 U	60 U	70 U

TABLE 3-1
Air Analytical Results

	StationID:	SVE Effluent	SVE Effluent	SVE Effluent	SVE Effluent
	Client Sample ID:	SVE-E-A-0610-02-25	SVE-E-A-0715-02-26	SVE-E-A-0821-02-27	SVE-E-A-0909-02-28
	Date Collected	06/10/02	07/15/02	08/21/02	09/09/02
Parameter	**Units**				
m&p-Xylene (1,3-dimethylbenzene)	mg/m^3	120 U	120 U	140 U	140 U
Methyl t-butyl ether (MTBE)	mg/m^3	60 U	60 U	60 U	70 U
Methylene chloride	mg/m^3	60 U	60 U	60 U	70 U
o-Xylene (1,2-Dimethylbenzene)	mg/m^3	60 U	60 U	60 U	70 U
Styrene	mg/m^3	60 U	60 U	60 U	70 U
Tetrachloroethene (PCE)	mg/m^3	60 U	60 U	60 U	70 U
Toluene	mg/m^3	60 U	60 U	60 U	50 J
trans-1,2-Dichloroethene	mg/m^3	60 U	60 U	60 U	70 U
trans-1,3-Dichloropropene	mg/m^3	60 U	60 U	60 U	70 U
trans-1,4-dichloro-2-butene	mg/m^3	60 U	60 U	60 U	70 U
Trichloroethene (TCE)	mg/m^3	60 U	60 U	60 U	70 U
Trichlorofluoromethane	mg/m^3	60 U	60 U	60 U	70 U
Vinyl chloride	mg/m^3	60 U	60 U	60 U	70 U
Total Volatile Organics (mg/m^3)		0	0	0	0.05

ug/m^3 - micro grams per cubic meter
mg/m^3 - milligrams per cubic meter
U - result is not detected
= - value equal to
J - result is estimated
NA - not analyzed

TABLE 3-2
Groundwater Analytical Results

Sample I.D.	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	Naphthalene	Lead	Acenaphthylene	Fluoranthene	Phenanthrene	Fluorene	TPH
	NADC[1]	**100**	**400**	**300**	**200**	**700**	**700**	**100**	**20**	**100**	**270**	**50**	**8**	**500**	**NE**	**NE**	**NE**	**200**	**200**	**200**	**150**	**2100**	**2800**	**2100**	**2800**	**50000**
	GCTL[1]	**1**	**40**	**30**	**20**	**70**	**70**	**10**	**0.2**	**10**	**2.7**	**0.5**	**0.8**	**5**	**NE**	**NE**	**NE**	**20**	**20**	**20**	**15**	**210**	**280**	**210**	**280**	**5000**
		Micrograms per liter (µg/L)																								
CEF-103-SMW01	09/12/02	1 U	1 U	1 U	2 U	1 U	1 U	1 U	0.56 U	1 U	1 U	0.46 U	0.2 U	1 U	0.19 U	0.19 U	0.21 U	0.21 U	0.21 U	0.21 U	5 U	0.21 U	0.21 U	0.21 U	0.21 U	220 =
CEF-103-SMW02	09/12/02	1 U	1 U	1 U	2 U	1 U	1 U	1 U	0.56 U	1 U	1 U	0.46 U	0.2 U	1 U	0.19 U	0.19 U	0.21 U	0.21 U	0.44 =	0.25 =	5 U	0.21 U	0.34 =	0.41 =	0.21 U	1600 J
CEF-103-SMW03	09/12/02	1 U	1 U	1 U	2 U	1 U	1 U	1 U	0.56 U	1 U	1 U	0.46 U	0.2 U	1 U	0.19 U	0.19 U	0.21 U	0.22 U	0.39 =	0.22 U	**31.3 =**	0.22 U	0.22 U	0.22 U	0.22 U	240 J
CEF-103-SMW04	09/12/02	1 U	1 U	1 U	2 U	1 U	1 U	1 U	0.56 U	1 U	1 U	0.46 U	0.2 U	1 U	0.19 U	0.19 U	0.21 U	0.22 U	0.22 U	0.22 U	5 U	0.22 U	0.22 U	0.22 U	0.22 U	640 =
CEF-103-SMW05	09/12/02	1 U	1 U	1 U	2 U	1 U	1 U	1 U	0.56 U	1 U	1 U	0.46 U	0.2 U	1 U	0.19 U	0.19 U	0.21 U	0.22 U	0.22 U	0.22 U	5 U	0.22 U	0.22 U	0.22 U	0.22 U	370 =
CEF-103-SMW06	09/13/02	1 U	1 U	1 U	2 U	1 U	1 U	1 U	0.56 U	1 U	1 U	0.46 U	0.2 U	1 U	0.19 U	0.19 U	0.21 U	0.22 U	0.22 U	0.22 U	5 U	0.22 U	0.21 J	0.43 =	0.22 U	210 UJ
CEF-103-SMW07	09/13/02	1 U	1 U	1 U	2 U	1 U	1 U	1 U	0.56 U	1 U	1 U	0.46 U	0.2 U	1 U	0.19 U	0.19 U	0.21 U	0.21 U	0.21 U	0.21 U	2.4 J	0.21 U	0.21 U	0.21 U	0.21 U	200 UJ
CEF-103-SMW10	09/13/02	1 U	1 U	1 U	2 U	1 U	1 U	1 U	0.56 U	1 U	1 U	0.46 U	0.2 U	1 U	0.19 U	0.19 U	0.21 U	0.21 U	0.23 =	0.21 U	5 U	0.21 U	0.21 U	0.21 U	0.21 U	220 U
CEF-103-SMW11	09/12/02	1 U	1 U	1 U	2 U	1 U	1 U	1 U	0.56 U	1 U	1 U	0.46 U	0.2 U	1 U	0.19 U	0.19 U	0.21 U	0.21 U	0.21 U	0.21 U	**35.1 =**	0.34 =	0.21 U	0.21 U	0.21 U	1700 J
CEF-103-DMW-01	09/12/02	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Notes:
NADC - Natural Attenuation Default Concentration
GCTL - Groundwater Cleanup Target Level
1 = Ch 62-777 F.A.C Groundwater Cleanup Target Levels (GCTLs) reported in µg/L
U - result is not detected
= - value equal to
J - result is estimated
NE - Not established
NT - Parameter was not tested for by laboratory
Bold indicates concentration exceeds GCTL
Shaded indicates concentration exceeds NADC

TABLE 3-3
Field Parameter Measurements

Well Identification	Date	pH	Conductivity (mS/cm)	Dissolved O_2 (mg/l)	Temperature (^oC)
CEF-103-SMW-01	09/12/02	6.51	0.655	1.59	27.4
CEF-103-SMW-02	09/12/02	6.37	0.641	1.43	28
CEF-103-SMW-03	09/12/02	NR	NR	NR	NR
CEF-103-SMW-04	09/12/02	7.63	0.391	4.62	29.1
CEF-103-SMW-05	09/12/02	NR	NR	NR	NR
CEF-103-SMW-06	09/12/02	3.83	0.780	2.46	26.3
CEF-103-SMW-07	09/12/02	6.16	0.245	1.47	26.5
CEF-103-SMW-08	09/12/02	NR	NR	NR	NR
CEF-103-SMW-09	09/12/02	NR	NR	NR	NR
CEF-103-SMW-10	09/12/02	5.38	0.261	1.93	26
CEF-103-SMW-11	09/12/02	7.28	0.416	4.91	29.1
CEF-103-SMW-12	09/12/02	NR	NR	NR	NR

Notes:
NR = no reading taken
mS/cm – milliSiemens per centimeter
mg/L - milligrams per liter
^oC - degrees Celsius

4.0 Conclusions and Recommendations

No organic parameters were detected during the 3rd Quarter 2002 sampling event at concentrations that exceeded the FDEP GCTLs. Since system start up in May 2000, organic parameter contaminant concentrations have remained below the FDEP GCTLs in the site monitoring well with the exception of well CEF-103-SMW-11. Since operation of wells AS-21 and AS-22 began on May 2, 2002, the organic parameter contaminant concentrations in CEF-103-SMW-11 have decreased to below GCTLs.

Lead was the only parameter detected at concentrations above the GCTLs during the 3rd Quarter 2002. Historically, lead was detected above the GCTLs in a majority of the wells at the site.

CCI recommends ceasing operation of the AS system because: 1) groundwater samples have shown no organic levels above the FDEP GCTLs in site monitoring wells for two consecutive quarters, and 2) AS has little to no effect in the treatment of dissolved lead in groundwater. CCI recommends groundwater sample collection for lead analyses from the shallow monitoring wells on a quarterly basis; however, we do not recommend further monitoring for VOCs in groundwater.

5.0 References

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.

CH2M HILL Constructors, Inc. June 2003. Construction Completion Report, Extension of Air Sparging System, 103rd Street and "A" Avenue Jet Fuel Transfer Pipeline, Naval Air Station Cecil Field, Jacksonville, Florida.

Florida Department of Environmental Protection (David Grabka), July 31, 2002. Letter to Wayne Hansel, Subject « Fourth Quarter 2001 Operations and Maintenance Status Report, AS/SVE 103rd Street aand A Avenue Jet Fuel Transfer Pipeline with recommendations, Naval Air Station Cecil Field, Jacksonville, Florida

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.

Appendix A

Historical Data

TABLE 1

Groundater 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	0.068
	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	0.11
	03/27/01	<1	<5.5	<3	<5	<1.5	<2	<6.5	<13	<2.5	<6.5	<5.5	<2.5	0.53	<2	<6	<6.5	<1	<1	<2	<1	0.97	0.049
	05/23/01	0	5.5	<3	<5	1.5	2	<6.5	13	<2.5	0.63	5.5	<2.5	0.87	<2	<6	<6.5	<1	<1	2	<1	1	0.1
	08/30/01	<0.5	<1	0.55	1.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.21	<0.21	NA	<0.21	<0.52	0.015
	11/27/01	<1	<1	<1	<2	<1	<1	<1	<0..56	<1	<1	<0.46	<0.2	<2	<0.19	<0.19	<0.21	<0.22	<0.22	<1	<0.22	<0.54	<0.002
	02/26/02	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<0.2	<1	<0.19	<0.19	<0.21	<0.21	<0.21	<1	<0.21	<0.22	<0.005
	05/21/02	<1	<1	<1	<2	<1	<1	<1	<0.56	<1	<1	<0.46	<0.2	<1	<0.19	<0.19	<0.21	<0.21	<0.21	<1	<0.21	<0.21	<0.005
	05/21/02	<1	<1	<1	<2	<1	<1	<1	<0.56	<1	<1	<0.46	<0.2	<1	<0.19	<0.19	<0.21	<0.21	<0.21	<1	<0.21	<0.21	<0.005
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	0.036
	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	0.032
	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	0.17
	03/27/01	<1	<5.5	<3	<5	<1.5	<2	<6.5	<13	<2.5	<6.5	<5.5	<2.5	0.51	<2	<6	<6.5	<1	<1	<2	<1	0.87	0.015
	05/23/01	<1	<5.5	<3	<5	<1.5	<2	<6.5	<13	<2.5	0.61	<5.5	<2.5	0.96	<2	<6	<6.5	<1	<1	<2	<1	<1	0.1
	08/30/01	<0.5	<1	0.49	1.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.21	<0.21	NA	<0.21	0.24	0.03
	11/27/01	<1	<1	<1	<2	<1	<1	<1	<0..56	<1	<1	<0.46	<0.2	<2	<0.19	<0.19	<0.21	<0.2	<0.2	<1	<0.2	<0.52	0.01
	02/26/02	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<0.2	<1	<0.19	<0.19	<0.21	<0.21	<0.21	<1	<0.21	<0.23	<0.005
	05/21/02	<1	<1	<1	<2	<1	<1	<1	<0.56	<1	<1	<0.46	<0.2	<1	<0.19	<0.19	<0.21	<0.21	<0.21	<1	<0.21	<0.22	0.01
	05/21/02	<1	<1	<1	<2	<1	<1	<1	<0.56	<1	<1	<0.46	<0.2	<1	<0.19	<0.19	<0.21	<0.21	<0.21	<1	<0.21	<0.22	0.01
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	0.057
	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	0.051
	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
	03/27/01	<1	<5.5	<3	<5	<1.5	<2	<6.5	<13	<2.5	<6.5	<5.5	<2.5	0.65	<2	<6	<6.5	<1	<1	<2	<1	0.75	0.047
	05/23/01	<1	<5.5	<3	<5	<1.5	<2	<6.5	<13	<2.5	<6.5	<5.5	<2.5	1.3	<2	<6	<6.5	<1	<1	<2	<1	<1	0.013
	08/30/01	<0.5	<1	0.48	<3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.21	<0.21	NA	<0.21	<0.52	0.132
	11/28/01	<1	<1	<1	<2	<1	<1	<1	<0..56	<1	<1	<0.46	<0.2	<2	<0.19	<0.19	<0.21	<0.22	<0.22	<1	<0.22	0.95	0.122
	02/26/02	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<0.2	<1	<0.19	<0.19	<0.21	<0.22	<0.22	<1	<0.22	<0.22	0.0222
	05/22/02	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	05/22/02	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
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	<0.01
	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
	03/27/01	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	05/23/01	1	<5.5	<3	<5	<1.5	<2	0.69	<13	0.72	<6.5	<5.5	<2.5	1.1	<2	<6	<6.5	<1	<1	<2	<1	4.6	0.013
	08/30/01	<0.5	<1	0.47	0.71	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.21	<0.21	NA	<0.21	3.3	0.059
	11/28/01	<1	<1	<1	<2	<1	<1	<1	<0..56	<1	<1	<0.46	<0.2	<2	<0.19	<0.19	<0.21	<0.2	<0.2	<1	<0.2	7.8	<0.002

TABLE 1
Groundater 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
	02/26/02	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<0.2	<1	<0.19	<0.19	<0.21	1.2	1.2	<1	1.2	0.64	<0.005
	05/22/02	<1	<1	<1	<2	<1	<1	<1	<0.56	<1	<1	<0.46	<0.2	<1	<0.19	<0.19	<0.21	<0.23	<0.23	<1	<0.23	1.5	0.0035
	05/22/02	<1	<1	<1	<2	<1	<1	<1	<0.56	<1	<1	<0.46	<0.2	<1	<0.19	<0.19	<0.21	<0.23	<0.23	<1	<0.23	1.5	0.0035
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	0.025
	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
	03/27/01	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	05/23/01	<1	<5.5	<3	<5	<1.5	<2	<6.5	<13	<2.5	<6.5	<5.5	<2.5	1.1	<2	<6	<6.5	<1	<1	<2	<1	1	0.021
	08/30/01	<0.5	5.1	0.47	<3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.21	<0.21	NA	<0.21	0.49	0.018
	11/27/01	<1	<1	<1	<2	<1	<1	<1	<0..56	<1	<1	<0.46	<0.2	<2	<0.19	<0.19	<0.21	<0.22	<0.22	<1	<0.22	0.37	<0.002
	02/26/02	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<0.2	<1	<0.19	<0.19	<0.21	<0.21	<0.21	<1	<0.21	<0.22	<0.005
	05/21/02	<1	<1	<1	<2	<1	<1	<1	<0.56	<1	<1	<0.46	<0.2	<1	<0.19	<0.19	<0.21	<0.21	<0.21	<1	<0.21	<0.21	<0.005
	05/21/02	<1	<1	<1	<2	<1	<1	<1	<0.56	<1	<1	<0.46	<0.2	<1	<0.19	<0.19	<0.21	<0.21	<0.21	<1	<0.21	<0.21	<0.005
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	0.033
	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
	03/27/01	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	05/23/01	<1	<5.5	<3	<5	<1.5	<2	<6.5	<13	<2.5	0.59	<5.5	<2.5	0.95	<2	<6	<6.5	<1	<1	<2	<1	<1	0.086
	08/30/01	<0.5	<1	0.51	<3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.22	<0.22	NA	<0.22	<0.51	0.248
	11/27/01	<1	<1	<1	<2	<1	<1	<1	<0..56	<1	<1	<0.46	<0.2	<2	<0.19	<0.19	<0.21	<0.21	<0.21	<1	<0.21	<0.52	0.068
	02/26/02	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<0.2	<1	<0.19	<0.19	<0.21	<0.21	<0.21	<1	<0.21	<0.21	<0.005
	05/22/02	<1	<1	<1	<2	<1	<1	<1	<0.56	<1	<1	<0.46	<0.2	<1	<0.19	<0.19	<0.21	<0.2	<0.24	<1	<0.2	<0.52	0.0101
	05/22/02	<1	<1	<1	<2	<1	<1	<1	<0.56	<1	<1	<0.46	<0.2	<1	<0.19	<0.19	<0.21	<0.2	<0.24	<1	<0.2	<0.52	0.0101
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	0.013
	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	0.086
	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	0.17
	03/27/01	<1	<5.5	<3	<5	<1.5	<2	<6.5	<13	<2.5	<6.5	<5.5	<2.5	0.53	<2	<6	<6.5	<1	<1	<2	<1	1.3	0.07
	05/23/01	<1	<5.5	<3	<5	<1.5	<2	<6.5	<13	<2.5	0.87	<5.5	<2.5	1.1	<2	<6	<6.5	<1	<1	<2	<1	<1	0.071
	08/30/01	<0.5	<1	0.44	<3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.21	<0.21	NA	<0.21	<0.52	0.049
	11/27/01	<1	<1	<1	<2	<1	<1	<1	<0..56	<1	<1	<0.46	<0.2	<2	<0.19	<0.19	<0.21	<0.2	<0.2	<1	<0.2	<0.5	0.025
	02/26/02	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<0.2	<1	<0.19	<0.19	<0.21	<0.21	<0.21	<1	<0.21	<0.22	0.0038
	05/22/02	<1	<1	<1	<2	<1	<1	<1	<0.56	<1	<1	<0.46	<0.2	<1	<0.19	<0.19	<0.21	<0.21	0.31	<1	<0.21	<0.53	0.0106
	05/22/02	<1	<1	<1	<2	<1	<1	<1	<0.56	<1	<1	<0.46	<0.2	<1	<0.19	<0.19	<0.21	<0.21	0.31	<1	<0.21	<0.53	0.0106
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	0.042
	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
	03/27/01	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

TABLE 1

Groundater 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
	05/23/01	<1	<5.5	<3	<5	<1.5	<2	<6.5	<13	<2.5	1	<5.5	<2.5	1	<2	<6	<6.5	<1	<1	<2	<1	<1	0.16
	08/30/01	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/27/01	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/26/02	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	05/22/02	<1	<1	<1	<2	<1	<1	<1	<0.56	<1	<1	<0.46	<0.2	<1	<0.19	<0.19	<0.21	<0.21	0.31	<1	<0.21	<0.56	<0.005
	05/22/02	<1	<1	<1	<2	<1	<1	<1	<0.56	<1	<1	<0.46	<0.2	<1	<0.19	<0.19	<0.21	<0.21	0.31	<1	<0.21	<0.56	<0.005
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	<0.024
	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
	03/27/01	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	05/23/01	<1	<5.5	<3	<5	<1.5	<2	<6.5	<13	<2.5	0.78	<5.5	<2.5	1.1	<2	<6	<6.5	<1	<1	<2	<1	1	0.09
	08/30/01	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/27/01	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/26/02	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	05/22/02	<1	<1	<1	<2	<1	<1	<1	<0.56	<1	<1	<0.46	<0.2	<1	<0.19	<0.19	<0.21	<0.21	0.34	<1	<0.21	0.28 J	<0.005
	05/22/02	<1	<1	<1	<2	<1	<1	<1	<0.56	<1	<1	<0.46	<0.2	<1	<0.19	<0.19	<0.21	<0.21	0.34	<1	<0.21	0.28 J	<0.005
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	0.052
	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	0.24
	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	0.34
	03/27/01	<1	<5.5	<3	<5	<1.5	<2	<6.5	<13	<2.5	<6.5	<5.5	<2.5	1	<2	<6	<6.5	<1	<1	<2	<1	0.66	0.05
	05/23/01	<1	<5.5	<3	<5	<1.5	<2	<6.5	<13	<2.5	1.1	<5.5	<2.5	1.1	<2	<6	<6.5	<1	<1	<2	<1	<1	0.065
	08/30/01	<0.5	<1	0.47	<3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.21	<0.21	NA	<0.21	<0.52	0.016
	11/27/01	<1	<1	<1	<2	<1	<1	<1	<0..56	<1	<1	<0.46	<0.2	<2	<0.19	<0.19	<0.21	<0.2	<0.2	<1	<0.2	<0.51	<0.002
	02/26/02	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<0.2	<1	<0.19	<0.19	<0.21	<0.2	<0.2	<1	<0.2	<0.21	<0.005
	05/22/02	<1	<1	<1	<2	<1	<1	<1	<0.56	<1	<1	<0.46	<0.2	<1	<0.19	<0.19	<0.21	<0.21	<0.21	<1	<0.21	<0.52	0.0047
	05/22/02	<1	<1	<1	<2	<1	<1	<1	<0.56	<1	<1	<0.46	<0.2	<1	<0.19	<0.19	<0.21	<0.21	<0.21	<1	<0.21	<0.52	0.0047
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	0.054
	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	0.051
	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	0.14
	03/27/01	<1	<5.5	10	14	<1.5	<2	46	<13	11	<6.5	<5.5	5.6	<1.5	5.4	4.1	5.4	3.16	2.17	17	2.74	20	0.032
	05/23/01	1	<5.5	23	29	<1.5	<2	61	<13	14	<6.5	<5.5	11	1	11	4.2	5.8	10.9	7.88	37	18.4	6.4	0.037
	08/30/01	<0.5	<1.0	10	17.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.2	0.74	NA	3.6	20	<0.03
	10/10/01	0.32	<40	36	50.5	<70	<70	100	0.56	21	<2.7	<0.39	15	<5	16	5	6	NA	NA	76	NA	NA	NA
	11/27/01	0.42	0.19	44	36	<1	<1	123	<0.56	13	<1	<0.46	18	<2	18	8.3	9.4	12	10	83	19	20	<0.01
	02/26/02	0.32	0.28	39	36.5	<1	<1	78.9	<1	8.4	<1	<1	18.4	<1	17.7	7.9	8.7	19.2	11.9	64.6	20.7	6.2	<0.005
	05/22/02	<1	<1	3.2	0.59 J	<1	<1	0.6 J	<0.56	0.7 J	<1	<0.46	2.3	<2	1.6	2.3	1.6	1.1	1.1	5.4	2.3	1.5	<0.005
	05/22/02	<1	<1	3.2	0.59 J	<1	<1	0.6 J	<0.56	0.7 J	<1	<0.46	2.3	<2	1.6	2.3	1.6	1.1	1.1	5.4	2.3	1.5	<0.005

TABLE 1

Groundater 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-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	0.074
	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
	03/27/01	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	05/23/01	<1	<5.5	<3	<5	<1.5	<2	<6.5	<13	<2.5	0.51	<5.5	<2.5	1.2	<2	<6	<6.5	<1	<1	1.1	<1	1.1	0.031
	08/30/01	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/27/01	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/26/02	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	05/21/02	<1	<1	<1	<2	<1	<1	<1	<0.56	<1	<1	<0.46	<0.2	<1	<0.19	<0.19	<0.21	<0.21	0.23	<1	<0.21	<0.21	0.0119
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	<0.01
	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
	03/27/01	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	05/23/01	<1	<5.5	<3	<5	<1.5	<2	<6.5	<13	<2.5	1.3	<5.5	<2.5	1.1	<2	<6	<6.5	<1	<1	<2	<1	<1	<.01
	08/30/01	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/27/01	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/26/02	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	05/21/02	<1	<1	<1	<2	<1	<1	<1	<0.56	<1	<1	<0.46	<0.2	<1	<0.19	<0.19	<0.21	<0.21	<0.21	<1	<0.21	>0.21	<0.005
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

NOTES:

1. All results in ug/L except FL PRO and lead are in mg/L
2. NA = not analyzed
3. NS = not sampled
4. Shade = concentration is above groundwater cleanup target levels (GCTLs)

Appendix B

Data Validation Report

e*data, inc.
Environmental Data Management
& Chemistry Consulting Services

030121

February 21, 2003

FEB 2 2003

Christelle Newsome
CH2M HILL Constructors, Inc.
115 Perimeter Center Place, N.E.
Suite 700
Atlanta, GA 30346-1278

Subject: Data Validation Services for CTO – 062 – NAS, Cecil Field, Project Number: 163151.

Dear Ms. Newsome,

Enclosed please find the data validation package for CTO-062. A copy of the validated database file in comma-delimited variable (csv) file format has been emailed to your attention at cnewsome@CH2M.com. Three additional fields were added for the validated results (Valid_Result), validated qualifiers (Valid_Qual) and qualifier codes (Qual_Code).

This report addresses thirteen sample delivery groups (SDGs) for the sampling effort. The SDGs are 2209102, 2209178, C207404, C207405, C208603, C208604, C209256, C209257, L0209285, L0209310, L0209337, L0209516, and L0209517. Mr. Richard Baldino, a senior data validator, conducted the data validation effort.

Please call me at (847) 494-2685 if you have any questions or need additional information.

Sincerely,

Richard Baldino
Senior Environmental Chemist

Enclosures
RAB/rab

edata:CTO-062 Cover.doc

Approved for Quality Assurance Release by:
Rev. 0 Date 2/27/03

300 N. Carlyle Place
Arlington Heights, IL 60004

Tel: (847) 494-2685
Fax: (847) 628-0964
richardbaldino@attbi.com

DATA VALIDATION REPORT
(NAVAL AIR STATION)

NAS, Cecil Field

CTO-062

PROJECT NO 163151

February 21, 2003

Prepared For CCI

Prepared by E-Data, Inc.
300 N. Carlyle, Suite 100
Arlington Heights, IL 60004

Data Validation Reference Package

Acronyms and Abbreviations

CLP	Contract Laboratory Program
COC	Chain-of-Custody
%D	Percent Difference
DUP	Duplicate
GC	Gas Chromatography
GS/MS	Gas Chromatography/Mass Spectroscopy
IS	Internal Standard
LCS	Laboratory Control Sample
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
NFG	Nation Functional Guidelines
%REC	Percent Recovery
QA	Quality Assurance
QC	Quality Control
RL	Reporting Limits
RPD	Relative Percent Difference
RSD	Relative Standard Deviation
SVOCs	Semi Volatile Organic Compounds
VOC	Volatile Organic Compound

Data Qualifier Reference Table

Final validated data were assigned qualifiers per USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review and USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (NFG). Table 1 presents all data qualifiers used in the data validation effort - CTO-062.

TABLE 1
EXAMPLE DATA QUALIFIER REFERENCE
(CTO-062)

Qualifier	Organic	Inorganic
[=]	The parameter was detected at the reported concentration.	The parameter was detected at the reported concentration.
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit of the sample detection limit.
J	The analyte was positively identified: the associated numerical value is the approximate concentration of the analyte in the sample.	The associated value is an estimated quantity.
N	The analysis indicates the presence of an analyte for which there was presumptive evidence to make a "tentative identification."	Not applicable.
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.	Not applicable.
UJ	The analyte was not deemed above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.	The material was analyzed for, but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
R	The sample results are rejected due to serious deficiencies in the ability to analyze the sample and to meet the quality control criteria. The presence or absence of the analyte cannot be verified OR a more appropriate analyses is present.	The data are unusable. (Note: Analyte may or not be present).

Qualification Code Reference Table

Qualification codes explain why data qualifiers have been applied and identify possible limitations of data use. Table 2 presents all data qualifier codes used in the data validation effort - CTO-062.

TABLE 2
EXAMPLE DATA QUALIFIER CODE REFERENCE
(CTO-062)

Qualifier	Organics	Inorganics
H	Holding times were exceeded.	Holding times were exceeded.
S	Surrogate recovery was outside QC limits.	The sequence or number of standards used for the calibration was incorrect.
C	Calibration %RSD or %D were noncompliant.	Correlation coefficient is <0.995.
R	Calibration RRF was <0.05.	%R for calibration is not within control limits.
B	Presumed contamination from preparation (method) blank.	Presumed contamination from preparation (method) blank or calibration blank.
L	Laboratory Blank Spike/Blank Spike Duplicate %R was not within control limits.	Laboratory Control Sample %R was not within control limits.
Q	MS/MSD recovery was poor or RPD high.	MS recovery was poor.
E	Duplicates showed poor agreement.	Duplicates showed poor agreement.
I	Internal standard performance was unsatisfactory.	ICP ICS results were unsatisfactory.
A	Not applicable.	ICP Serial Dilution %D were not within control limits.
M	Tuning (BFB or DFTPP) was noncompliant.	Not applicable.
T	Presumed contamination from trip blank.	Not applicable.
+	False positive—reported compound was not present.	Not applicable.
-	False negative—compound was present but not reported.	Not applicable.
F	Presumed contamination from FB or ER.	Presumed contamination from FB or ER
$	Reported result or other information was incorrect.	Reported result or other information was incorrect.
?	TIC identity or reported retention time has been changed.	Not applicable.
D	The analysis with this flag should not be used because another more technically sound analysis is available.	The analysis with this flag should not be used because another more technically sound analysis is available.
P	Instrument performance for pesticides was poor.	Poor Digestion Spike recovery was not within control limits.
*#	Unusual problems found with the data that have been described in Section 2, "Data Validation Findings." The number following the asterisk (*) will indicate the subsection where a description of the problem can be found.	Unusual problems found with the data that have been described in Section 2, "Data Validation Findings." The number following the asterisk (*) will indicate the subsection where a description of the problem can be found.

Data Validation Report

Introduction

This report describes the data validation services provided by E-Data Inc., in support of CCI project numbers 2209102, 2209178, C207404, C207405, C208603, C208604, C209256, C209257, L0209285, L0209310, L0209337, L0209516, and L0209517 as part of CCI contact number CTO-062.

CCI collected water samples and associated field QC samples between December 3rd and July 15th, 2002 and October 3rd, 2002. Samples were taken from 6 air sampling locations, 4 soil sampling locations, and 40 water sampling locations. Field quality control samples include 4 field duplicate samples, 6 equipment rinsate blank samples, and 7trip blank samples. The laboratory prepared project-specific samples for MS/MSD pair analyses where applicable for all organic, inorganic, and wet chemistry analyses.

A summary of the samples and required analyses is shown in Table 3. Samples contained in SDGs L0209285, L0209310, L0209337, L0209516, and L0209517 were submitted to Kemron Environmental Services, located in Marietta, Ohio. Samples contained in SDGs 2209102 and 2209178 were submitted to PEL Laboratories, located in Tampa, Florida. Samples contained in SDGs C207404, C207405, C208603, C208604, C209256, and C209257 were submitted to Severn Trent Services, located in Pensacola, Florida.

Laboratory data were validated using CCI-approved checklists based on the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review and USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review. A copy of the laboratory reports with data qualifiers applied during the data validation and chain-of-custody forms are provided in Appendix A. Appendix B contains copies of the completed data validation checklists.

At least 50 percent of the sample results from the final validated-laboratory reports were compared to the electronic data. Table C-1 (Appendix C) summarizes the 1390 sample results that were verified. The database contains 2605 results from regular, field duplicate, equipment blank, and trip blank samples.

This report addresses thirteen sample delivery groups (SDGs) for the sampling effort. The SDGs are 2209102, 2209178, C207404, C207405, C208603, C208604, C209256, C209257, L0209285, L0209310, L0209337, L0209516, and L0209517. Mr. Richard Baldino, a senior data validator, conducted the data validation effort.

Table 3
SUMMARY OF REQUESTED ANALYSES
(CTO-062)

Lab Sample ID	Field ID	Matrix	QA/QC TYPE	Sample Date	Receive Date	Metals	Nitrite	Nitrate	PAHs	Phosphorus	TPH	VOCs
220910201	01Q30228	Water	N	12-Sep-02	14-Sep-02	X			X		X	X
220910202	02Q30228	Water	N	12-Sep-02	14-Sep-02	X			X		X	X
220910203	03Q30228	Water	N	12-Sep-02	14-Sep-02	X			X		X	X
220910204	04Q30228	Water	N	12-Sep-02	14-Sep-02	X			X		X	X
220910205	05Q30228	Water	N	12-Sep-02	14-Sep-02	X			X		X	X
220910206	06Q30228	Water	N	13-Sep-02	14-Sep-02	X			X		X	X
220910207	07Q30228	Water	N	13-Sep-02	14-Sep-02	X			X		X	X
220910208	10Q30228	Water	N	13-Sep-02	14-Sep-02	X			X		X	X
220910209	11Q30228	Water	N	12-Sep-02	14-Sep-02	X			X		X	X
220910212	DUPQ30228	Water	FD	12-Sep-02	14-Sep-02	X			X		X	X
220910213	EQBQ30228	Water	EB	13-Sep-02	14-Sep-02	X			X		X	X
220910214	TBQ30228	Water	TB	13-Sep-02	14-Sep-02							X
220917801	062MW4Q302	Water	N	24-Sep-02	25-Sep-02				X			X
220917802	062MW9Q302	Water	N	23-Sep-02	25-Sep-02				X			X
220917803	062MW13Q302	Water	N	23-Sep-02	25-Sep-02				X			X
220917804	062MW20Q302	Water	N	23-Sep-02	25-Sep-02				X			X
220917807	062MW22Q302	Water	N	23-Sep-02	25-Sep-02				X			X
220917808	062VEW2Q302	Water	N	23-Sep-02	25-Sep-02				X			X
220917809	062VEW3Q302	Water	N	23-Sep-02	25-Sep-02				X			X
220917810	062VEW4Q302	Water	N	23-Sep-02	25-Sep-02				X			X
220917811	062VEW5Q302	Water	N	23-Sep-02	25-Sep-02				X			X
220917812	062VEW6Q302	Water	N	23-Sep-02	25-Sep-02				X			X
220917813	062VEW7Q302	Water	N	24-Sep-02	25-Sep-02				X			X
220917814	062VEW8Q302	Water	N	23-Sep-02	25-Sep-02				X			X
220917815	062DUPQ302	Water	FD	23-Sep-02	25-Sep-02				X			X
220917816	062EQBQ302	Water	EB	23-Sep-02	25-Sep-02				X			X
220917817	062TBQ302	Water	TB	25-Sep-02	25-Sep-02							X
C207404*1	062-SVE-E-A-0715-02-26	Air	N	15-Jul-02	18-Jul-02							X
C207405*1	062-SVE-E-A-0715-02-30	Air	N	15-Jul-02	18-Jul-02							X
C208603*1	062-SVE-E-A-0821-02-31	Air	N	21-Aug-02	27-Aug-02							X
C208604*1	062-SVE-E-A-0821-02-27	Air	N	21-Aug-02	27-Aug-02							X
C209256*1	062-SVE-E-A-0909-02-32	Air	N	09-Sep-02	12-Sep-02							X
C209257*1	062-SVE-E-A-0909-02-28	Air	N	09-Sep-02	12-Sep-02							X
L0209285-01	062-CEF9-2S-Q3-02-21	Water	N	16-Sep-02	17-Sep-02		X	X	X	X	X	X
L0209285-02	062-CEF9-3S-Q3-02-21	Water	N	16-Sep-02	17-Sep-02		X	X	X	X	X	X
L0209285-03	062-CEF9-5S-Q3-02-21	Water	N	16-Sep-02	17-Sep-02		X	X	X	X	X	X
L0209285-04	062-CEF9-7D-Q3-02-21	Water	N	16-Sep-02	17-Sep-02		X	X	X	X	X	X
L0209285-07	062-CEF9-9S-Q3-02-21	Water	N	16-Sep-02	17-Sep-02		X	X	X	X	X	X
L0209285-08	062-9DUP-Q3-02-21	Water	FD	16-Sep-02	17-Sep-02		X	X	X	X	X	X
L0209285-09	062-9EQB-Q3-02-21	Water	EB	16-Sep-02	17-Sep-02		X	X	X	X	X	X
L0209285-10	062-9TB-Q3-02-21	Water	TB	16-Sep-02	17-Sep-02							X
L0209310-01	062-CEF46-2S-Q3-02-20	Water	N	17-Sep-02	18-Sep-02		X	X	X	X	X	X
L0209310-02	062-CEF46-7I-Q3-02-20	Water	N	17-Sep-02	18-Sep-02		X	X	X	X	X	X
L0209310-03	062-CEF46-9I-Q3-02-20	Water	N	17-Sep-02	18-Sep-02		X	X	X	X	X	X
L0209310-06	062-CEF46-12I-Q3-02-20	Water	N	17-Sep-02	18-Sep-02		X	X	X	X	X	X
L0209310-07	062-CEF46-13I-Q3-02-20	Water	N	17-Sep-02	18-Sep-02		X	X	X	X	X	X
L0209310-08	062-CEF46-14D-Q3-02-20	Water	N	17-Sep-02	18-Sep-02		X	X	X	X	X	X
L0209310-09	062-CEF46-15I-Q3-02-20	Water	N	17-Sep-02	18-Sep-02		X	X	X	X	X	X
L0209310-10	062-46DUP-Q3-02-20	Water	FD	17-Sep-02	18-Sep-02		X	X	X	X	X	X
L0209310-11	062-46EQB-Q3-02-20	Water	EB	17-Sep-02	18-Sep-02		X	X	X	X	X	X
L0209310-12	062-46TB1-Q3-02-20	Water	TB	17-Sep-02	18-Sep-02							X

Table 3
SUMMARY OF REQUESTED ANALYSES
(CTO-062)

Lab Sample ID	Field ID	Matrix	QA/QC TYPE	Sample Date	Receive Date	Metals	Nitrite	Nitrate	PAHs	Phosphorus	TPH	VOCs
L0209337-01	062-CEF46-1S-Q3-02-20	Water	N	18-Sep-02	19-Sep-02		X	X	X	X	X	X
L0209337-02	062-CEF46-5I-Q3-02-20	Water	N	18-Sep-02	19-Sep-02				X		X	X
L0209337-03	062-CEF46-6D-Q3-02-20	Water	N	18-Sep-02	19-Sep-02				X		X	X
L0209337-04	062-CEF46-21I-Q3-02-20	Water	N	18-Sep-02	19-Sep-02				X		X	X
L0209337-05	062-CEF46-24D-Q3-02-20	Water	N	18-Sep-02	19-Sep-02		X	X	X	X	X	X
L0209337-06	062-CEF46-25I-Q3-02-20	Water	N	18-Sep-02	19-Sep-02				X		X	X
L0209337-07	062-CEF46-26I-Q3-02-20	Water	N	18-Sep-02	19-Sep-02				X		X	X
L0209337-08	062-46TB-Q3-02-20	Water	TB	18-Sep-02	19-Sep-02							X
L0209516-01	062-CEF46-SB1-S-Q3-02	Soil	N	26-Sep-02	27-Sep-02				X		X	X
L0209516-02	062-CEF46-SB2-S-Q3-02	Soil	N	26-Sep-02	27-Sep-02				X		X	X
L0209516-03	062-CEF46-SB14-S-Q3-02	Soil	N	26-Sep-02	27-Sep-02				X		X	X
L0209516-04	062-CEF46-EQB-W-Q3-02	Water	EB	26-Sep-02	27-Sep-02				X		X	X
L0209516-05	062-CEF46-TB-W-Q3-02	Water	TB	26-Sep-02	27-Sep-02							X
L0209517-01	062-CEF9-SB1-S-Q3-02	Soil	N	26-Sep-02	27-Sep-02				X		X	X
L0209517-02	062-CEF9-EQB-W-Q3-02	Water	EB	26-Sep-02	27-Sep-02				X		X	X
L0209517-03	062-CEF9-TB-W-Q3-02	Water	TB	26-Sep-02	27-Sep-02							X

Data Validation Findings Summary

This section presents a summary of the data validation findings of the data reviewer.

General Comments

Laboratory results reported for metals at concentration levels less than the contracted reporting limits were qualified as trace concentrations by the laboratory and flagged "B" on the laboratory reports. The "B" flagged results were revised to a "J" flag, meaning the concentration value is an estimate.

Volatile Organic Analyses

Toluene was measured in some of the DI field blanks. Action levels were determined using the 5X Rule for toluene. Sample results less than the action levels are qualified as non-detected and flagged "U."

Surrogate recoveries in some samples were outside the laboratory established control limits. Samples that exhibited high surrogate recoveries were considered estimated and flagged "J" for detected VOC compounds only.

MS/MSD analyses were performed on project specific samples in various SDGs. Some of the accuracy and precision objectives were not met. However, the deficiencies do not suggest that the laboratory was unable to detect these constituents if they are present in the field samples. Some SDGs did not have MS/MSD analyses performed as part of the analytical batch. No LCS recovery deficiencies were noted. No action was taken to qualify the sample results based on the MS/MSD deficiencies or lack of MS/MSD samples alone.

Polynuclear Aromatic Hydrocarbon Analyses

Anthracene, benzo(a)anthracene, benzo(b)fluoranthene, fluoranthene, benzo(g,h,i)perylene, and phenanthrene were measured in some of the laboratory method blanks and DI field blanks. Action levels were determined using the 5X Rule for PAH compounds. Sample results less than the action levels are qualified as non-detected and flagged "U."

Surrogate recoveries in some samples were outside the laboratory established control limits. Samples that exhibited high surrogate recoveries were considered estimated and flagged "J" for detected PAH compounds only. Samples that exhibited low surrogate recoveries were considered estimated and flagged "J" for detected PAH compounds and "UJ" for non-detected PAH compounds.

Laboratory Control Samples (LCS) were performed as part of each analytical batch as a check of analytical accuracy. Some of the accuracy objectives were not met. When LCS recovery objectives were not met, field samples were considered estimated and flagged "J" for detects and "UJ" for non-detects.

MS/MSD analyses were performed on project specific samples in various SDGs. Some of the accuracy and precision objectives were not met. However, the deficiencies do not suggest that the laboratory was unable to detect these constituents if they are present in the field samples. Some SDGs did not have MS/MSD analyses performed as part of the

analytical batch. Where no LCS recovery deficiencies were noted, no action was taken to qualify the sample results based on the MS/MSD deficiencies or lack of MS/MSD samples alone.

Metals Analyses

Low-level check standards were not analyzed in the analytical batches associated with this project. Low-level check standards are used to check instrument accuracy near the laboratory established reporting limit. Initial Calibration Verification (ICV) standards were run and recoveries were acceptable. No other analytical problems were indicated by QA/QC criteria for this project. No action was taken.

Total Petroleum Hydrocarbon Analyses

TPH was measured in some of the DI field blanks. Action levels were determined using the 5X Rule for TPH. Sample results less than the action levels are qualified as non-detected and flagged "U."

MS/MSD analyses were performed on project specific samples in various SDGs. Some of the accuracy and precision objectives were not met. However, the deficiencies do not suggest that the laboratory was unable to detect these constituents if they are present in the field samples. Some SDGs did not have MS/MSD analyses performed as part of the analytical batch. Where no LCS recovery deficiencies were noted, no action was taken to qualify the sample results based on the MS/MSD deficiencies or lack of MS/MSD samples alone.

The surrogate recoveries of o-terphenyl in some of the samples tested were outside the laboratory established control limits. Surrogate standards are used to test the accuracy of the sample extraction and sample analysis. Low surrogate recoveries indicate a possible negative bias in either the sample extraction or analysis. High surrogate recoveries indicate a possible positive bias in either the sample extraction or analysis. Where surrogate recoveries were low, TPH results for the affected samples were considered estimated and flagged "J" for detects and "UJ" for non-detects. Where surrogate recoveries were high, TPH results for the affected samples were considered estimated and flagged "J" for detects only.

General Chemistry Analyses

Nitrate was measured in the DI field blank. Action levels were determined using the 5X Rule for nitrate. Sample results less than the action level are qualified as non-detected and flagged "U."

Technical Validity and Usability

The analytical performance of this data set is very strong. The analytical results meet the data quality objectives defined by the applicable method and NFG, except as noted in the data validation findings.

Summary of Qualified Data

A summary of the data qualified during the data validation exercise is summarized in Table 4.

Table 4
Summary of Qualified Data
(CTO-062)

Lab Sample ID	Field Sample ID	Analysis	Method	Parameter Name	Result	Lab Qual	DV Qual	DV Qual Code
220910202	02Q30228	TPH	FL-PRO	Petroleum Hydrocarbons	1.6	=	J	S
220910203	03Q30228	TPH	FL-PRO	Petroleum Hydrocarbons	0.24	=	J	S
220910206	06Q30228	TPH	FL-PRO	Petroleum Hydrocarbons	0.21	U	UJ	S
220910207	07Q30228	TPH	FL-PRO	Petroleum Hydrocarbons	0.2	U	UJ	S
220910209	11Q30228	TPH	FL-PRO	Petroleum Hydrocarbons	1.7	=	J	S
220910213	EQBQ30228	VOCs	SW8260B	Toluene	0.66	F	U	F
220917804	062MW20Q302	VOCs	SW8021	Toluene	0.24	F	U	F
220917816	062EQBQ302	VOCs	SW8021	Toluene	0.21	F	U	F
220917817	062TBQ302	VOCs	SW8021	Toluene	0.31	F	U	F
C209257*1	062-SVE-E-A-0909-02-28	VOCs	TO14	Toluene	0.059	JB	J	<
L0209285-01	062-CEF9-2S-Q3-02-21	NO3	SW9056	Nitrate	0.109	J	U	F
L0209285-01	062-CEF9-2S-Q3-02-21	PAHs	SW8310	Dibenz(a,h)anthracene	0.0837	U	UJ	L
L0209285-01	062-CEF9-2S-Q3-02-21	PAHs	SW8310	Fluoranthene	0.0543	U	UJ	L
L0209285-01	062-CEF9-2S-Q3-02-21	PAHs	SW8310	Acenaphthylene	0.382	U	UJ	L
L0209285-01	062-CEF9-2S-Q3-02-21	PAHs	SW8310	Phenanthrene	0.312	U	UJ	L
L0209285-01	062-CEF9-2S-Q3-02-21	PAHs	SW8310	Fluorene	0.608	U	UJ	L
L0209285-01	062-CEF9-2S-Q3-02-21	PAHs	SW8310	Anthracene	0.31	U	UJ	L
L0209285-01	062-CEF9-2S-Q3-02-21	PAHs	SW8310	Pyrene	0.075	J	J	L
L0209285-01	062-CEF9-2S-Q3-02-21	PAHs	SW8310	Benzo(g,h,i)perylene	0.146	J	J	L
L0209285-01	062-CEF9-2S-Q3-02-21	PAHs	SW8310	Benzo(k)fluoranthene	0.0783	U	UJ	L
L0209285-01	062-CEF9-2S-Q3-02-21	PAHs	SW8310	Naphthalene	1.1	=	J	L
L0209285-01	062-CEF9-2S-Q3-02-21	PAHs	SW8310	Chrysene	0.0261	U	UJ	L
L0209285-01	062-CEF9-2S-Q3-02-21	PAHs	SW8310	Benzo(a)anthracene	0.0326	U	UJ	L
L0209285-01	062-CEF9-2S-Q3-02-21	PAHs	SW8310	Benzo(b)fluoranthene	0.126	J	UJ	LF
L0209285-01	062-CEF9-2S-Q3-02-21	PAHs	SW8310	Indeno(1,2,3-cd)pyrene	0.087	U	UJ	L
L0209285-01	062-CEF9-2S-Q3-02-21	PAHs	SW8310	2-Methylnaphthalene	0.608	J	J	L
L0209285-01	062-CEF9-2S-Q3-02-21	PAHs	SW8310	Benzo(a)pyrene	0.0576	U	UJ	L
L0209285-01	062-CEF9-2S-Q3-02-21	PAHs	SW8310	1-Methylnaphthalene	0.393	U	UJ	L
L0209285-01	062-CEF9-2S-Q3-02-21	PAHs	SW8310	Acenaphthene	0.451	U	UJ	L
L0209285-01	062-CEF9-2S-Q3-02-21	TPH	SW8015	FLPRO	851	=	U	F
L0209285-02	062-CEF9-3S-Q3-02-21	NO3	SW9056	Nitrate	0.223	J	U	F
L0209285-02	062-CEF9-3S-Q3-02-21	PAHs	SW8310	Chrysene	0.0255	U	UJ	L
L0209285-02	062-CEF9-3S-Q3-02-21	PAHs	SW8310	Benzo(a)anthracene	0.0319	U	UJ	L
L0209285-02	062-CEF9-3S-Q3-02-21	PAHs	SW8310	Benzo(g,h,i)perylene	0.0532	U	UJ	L
L0209285-02	062-CEF9-3S-Q3-02-21	PAHs	SW8310	Anthracene	0.303	U	UJ	L
L0209285-02	062-CEF9-3S-Q3-02-21	PAHs	SW8310	Naphthalene	0.382	U	UJ	L
L0209285-02	062-CEF9-3S-Q3-02-21	PAHs	SW8310	Acenaphthylene	0.373	U	UJ	L
L0209285-02	062-CEF9-3S-Q3-02-21	PAHs	SW8310	Phenanthrene	0.305	U	UJ	L
L0209285-02	062-CEF9-3S-Q3-02-21	PAHs	SW8310	2-Methylnaphthalene	0.382	J	J	L
L0209285-02	062-CEF9-3S-Q3-02-21	PAHs	SW8310	Benzo(b)fluoranthene	0.179	J	UJ	LF
L0209285-02	062-CEF9-3S-Q3-02-21	PAHs	SW8310	Pyrene	0.0753	J	J	L
L0209285-02	062-CEF9-3S-Q3-02-21	PAHs	SW8310	Indeno(1,2,3-cd)pyrene	0.0851	U	UJ	L
L0209285-02	062-CEF9-3S-Q3-02-21	PAHs	SW8310	Fluorene	0.595	U	UJ	L
L0209285-02	062-CEF9-3S-Q3-02-21	PAHs	SW8310	Benzo(a)pyrene	0.0564	U	UJ	L
L0209285-02	062-CEF9-3S-Q3-02-21	PAHs	SW8310	Dibenz(a,h)anthracene	0.0819	U	UJ	L
L0209285-02	062-CEF9-3S-Q3-02-21	PAHs	SW8310	Benzo(k)fluoranthene	0.0766	U	UJ	L
L0209285-02	062-CEF9-3S-Q3-02-21	PAHs	SW8310	Acenaphthene	0.441	U	UJ	L
L0209285-02	062-CEF9-3S-Q3-02-21	PAHs	SW8310	1-Methylnaphthalene	0.385	U	UJ	L
L0209285-02	062-CEF9-3S-Q3-02-21	PAHs	SW8310	Fluoranthene	0.0532	U	UJ	L
L0209285-02	062-CEF9-3S-Q3-02-21	TPH	SW8015	FLPRO	674	=	U	F
L0209285-03	062-CEF9-5S-Q3-02-21	NO3	SW9056	Nitrate	0.127	J	U	F
L0209285-03	062-CEF9-5S-Q3-02-21	PAHs	SW8310	Benzo(a)anthracene	0.0328	U	UJ	L
L0209285-03	062-CEF9-5S-Q3-02-21	PAHs	SW8310	Chrysene	0.0262	U	UJ	L
L0209285-03	062-CEF9-5S-Q3-02-21	PAHs	SW8310	Benzo(b)fluoranthene	0.0372	U	UJ	L
L0209285-03	062-CEF9-5S-Q3-02-21	PAHs	SW8310	Indeno(1,2,3-cd)pyrene	0.0874	U	UJ	L
L0209285-03	062-CEF9-5S-Q3-02-21	PAHs	SW8310	Benzo(a)pyrene	0.0579	U	UJ	L
L0209285-03	062-CEF9-5S-Q3-02-21	PAHs	SW8310	Acenaphthene	0.454	U	UJ	L

Table 4
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Lab Sample ID	Field Sample ID	Analysis	Method	Parameter Name	Result	Lab Qual	DV Qual	DV Qual Code
L0209285-03	062-CEF9-5S-Q3-02-21	PAHs	SW8310	1-Methylnaphthalene	0.396	U	UJ	L
L0209285-03	062-CEF9-5S-Q3-02-21	PAHs	SW8310	Naphthalene	0.392	U	UJ	L
L0209285-03	062-CEF9-5S-Q3-02-21	PAHs	SW8310	Pyrene	0.0743	U	UJ	L
L0209285-03	062-CEF9-5S-Q3-02-21	PAHs	SW8310	2-Methylnaphthalene	0.367	U	UJ	L
L0209285-03	062-CEF9-5S-Q3-02-21	PAHs	SW8310	Anthracene	0.311	U	UJ	L
L0209285-03	062-CEF9-5S-Q3-02-21	PAHs	SW8310	Phenanthrene	0.314	U	UJ	L
L0209285-03	062-CEF9-5S-Q3-02-21	PAHs	SW8310	Benzo(k)fluoranthene	0.0787	U	UJ	L
L0209285-03	062-CEF9-5S-Q3-02-21	PAHs	SW8310	Fluoranthene	0.0546	U	UJ	L
L0209285-03	062-CEF9-5S-Q3-02-21	PAHs	SW8310	Benzo(g,h,i)perylene	0.0546	U	UJ	L
L0209285-03	062-CEF9-5S-Q3-02-21	PAHs	SW8310	Acenaphthylene	0.384	U	UJ	L
L0209285-03	062-CEF9-5S-Q3-02-21	PAHs	SW8310	Fluorene	0.611	U	UJ	L
L0209285-03	062-CEF9-5S-Q3-02-21	PAHs	SW8310	Dibenz(a,h)anthracene	0.0842	U	UJ	L
L0209285-03	062-CEF9-5S-Q3-02-21	TPH	SW8015	FLPRO	423	J	U	F
L0209285-04	062-CEF9-7D-Q3-02-21	PAHs	SW8310	Chrysene	0.024	U	UJ	L
L0209285-04	062-CEF9-7D-Q3-02-21	PAHs	SW8310	Naphthalene	0.359	U	UJ	L
L0209285-04	062-CEF9-7D-Q3-02-21	PAHs	SW8310	Benzo(a)anthracene	0.03	U	UJ	L
L0209285-04	062-CEF9-7D-Q3-02-21	PAHs	SW8310	Fluorene	0.559	U	UJ	L
L0209285-04	062-CEF9-7D-Q3-02-21	PAHs	SW8310	Phenanthrene	0.287	U	UJ	L
L0209285-04	062-CEF9-7D-Q3-02-21	PAHs	SW8310	Acenaphthylene	0.351	U	UJ	L
L0209285-04	062-CEF9-7D-Q3-02-21	PAHs	SW8310	Acenaphthene	0.415	U	UJ	L
L0209285-04	062-CEF9-7D-Q3-02-21	PAHs	SW8310	Benzo(k)fluoranthene	0.072	U	UJ	L
L0209285-04	062-CEF9-7D-Q3-02-21	PAHs	SW8310	2-Methylnaphthalene	0.336	U	UJ	L
L0209285-04	062-CEF9-7D-Q3-02-21	PAHs	SW8310	Indeno(1,2,3-cd)pyrene	0.08	U	UJ	L
L0209285-04	062-CEF9-7D-Q3-02-21	PAHs	SW8310	Anthracene	0.285	U	UJ	L
L0209285-04	062-CEF9-7D-Q3-02-21	PAHs	SW8310	Fluoranthene	0.05	U	UJ	L
L0209285-04	062-CEF9-7D-Q3-02-21	PAHs	SW8310	Dibenz(a,h)anthracene	0.077	U	UJ	L
L0209285-04	062-CEF9-7D-Q3-02-21	PAHs	SW8310	1-Methylnaphthalene	0.362	U	UJ	L
L0209285-04	062-CEF9-7D-Q3-02-21	PAHs	SW8310	Benzo(b)fluoranthene	0.0968	J	UJ	LF
L0209285-04	062-CEF9-7D-Q3-02-21	PAHs	SW8310	Benzo(a)pyrene	0.053	U	UJ	L
L0209285-04	062-CEF9-7D-Q3-02-21	PAHs	SW8310	Benzo(g,h,i)perylene	0.05	U	UJ	L
L0209285-04	062-CEF9-7D-Q3-02-21	PAHs	SW8310	Pyrene	0.068	U	UJ	L
L0209285-04	062-CEF9-7D-Q3-02-21	TPH	SW8015	FLPRO	420	J	U	F
L0209285-07	062-CEF9-9S-Q3-02-21	PAHs	SW8310	Benzo(k)fluoranthene	0.075	U	UJ	L
L0209285-07	062-CEF9-9S-Q3-02-21	PAHs	SW8310	Dibenz(a,h)anthracene	0.0802	U	UJ	L
L0209285-07	062-CEF9-9S-Q3-02-21	PAHs	SW8310	Benzo(b)fluoranthene	0.126	J	UJ	LF
L0209285-07	062-CEF9-9S-Q3-02-21	PAHs	SW8310	Benzo(g,h,i)perylene	0.0683	J	J	L
L0209285-07	062-CEF9-9S-Q3-02-21	PAHs	SW8310	Indeno(1,2,3-cd)pyrene	0.0833	U	UJ	L
L0209285-07	062-CEF9-9S-Q3-02-21	PAHs	SW8310	Chrysene	0.025	U	UJ	L
L0209285-07	062-CEF9-9S-Q3-02-21	PAHs	SW8310	Fluorene	0.582	U	UJ	L
L0209285-07	062-CEF9-9S-Q3-02-21	PAHs	SW8310	Fluoranthene	0.0521	U	UJ	L
L0209285-07	062-CEF9-9S-Q3-02-21	PAHs	SW8310	Benzo(a)pyrene	0.0552	U	UJ	L
L0209285-07	062-CEF9-9S-Q3-02-21	PAHs	SW8310	Anthracene	0.297	U	UJ	L
L0209285-07	062-CEF9-9S-Q3-02-21	PAHs	SW8310	2-Methylnaphthalene	3.44	=	J	L
L0209285-07	062-CEF9-9S-Q3-02-21	PAHs	SW8310	Pyrene	0.0844	J	J	L
L0209285-07	062-CEF9-9S-Q3-02-21	PAHs	SW8310	Benzo(a)anthracene	0.101	J	UJ	LF
L0209285-07	062-CEF9-9S-Q3-02-21	PAHs	SW8310	Phenanthrene	0.299	U	UJ	L
L0209285-07	062-CEF9-9S-Q3-02-21	PAHs	SW8310	Acenaphthylene	0.366	U	UJ	L
L0209285-07	062-CEF9-9S-Q3-02-21	PAHs	SW8310	1-Methylnaphthalene	1.34	=	J	L
L0209285-07	062-CEF9-9S-Q3-02-21	PAHs	SW8310	Naphthalene	12.9	=	J	L
L0209285-07	062-CEF9-9S-Q3-02-21	PAHs	SW8310	Acenaphthene	0.432	U	UJ	L
L0209285-07	062-CEF9-9S-Q3-02-21	TPH	SW8015	FLPRO	697	=	U	F
L0209285-08	062-9DUP-Q3-02-21	PAHs	SW8310	Fluorene	0.588	U	UJ	L
L0209285-08	062-9DUP-Q3-02-21	PAHs	SW8310	Acenaphthene	0.437	U	UJ	L
L0209285-08	062-9DUP-Q3-02-21	PAHs	SW8310	Naphthalene	13.4	=	J	L
L0209285-08	062-9DUP-Q3-02-21	PAHs	SW8310	Benzo(g,h,i)perylene	0.0816	J	J	L
L0209285-08	062-9DUP-Q3-02-21	PAHs	SW8310	Benzo(b)fluoranthene	0.0684	J	UJ	LF
L0209285-08	062-9DUP-Q3-02-21	PAHs	SW8310	Pyrene	0.0754	J	J	L

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Lab Sample ID	Field Sample ID	Analysis	Method	Parameter Name	Result	Lab Qual	DV Qual	DV Qual Code
L0209285-08	062-9DUP-Q3-02-21	PAHs	SW8310	Indeno(1,2,3-cd)pyrene	0.0842	U	UJ	L
L0209285-08	062-9DUP-Q3-02-21	PAHs	SW8310	Benzo(k)fluoranthene	0.0758	U	UJ	L
L0209285-08	062-9DUP-Q3-02-21	PAHs	SW8310	2-Methylnaphthalene	3.53	=	J	L
L0209285-08	062-9DUP-Q3-02-21	PAHs	SW8310	Benzo(a)anthracene	0.0794	J	UJ	LF
L0209285-08	062-9DUP-Q3-02-21	PAHs	SW8310	Phenanthrene	0.302	U	UJ	L
L0209285-08	062-9DUP-Q3-02-21	PAHs	SW8310	Benzo(a)pyrene	0.0558	U	UJ	L
L0209285-08	062-9DUP-Q3-02-21	PAHs	SW8310	Chrysene	0.0253	U	UJ	L
L0209285-08	062-9DUP-Q3-02-21	PAHs	SW8310	Acenaphthylene	0.369	U	UJ	L
L0209285-08	062-9DUP-Q3-02-21	PAHs	SW8310	Dibenz(a,h)anthracene	0.0811	U	UJ	L
L0209285-08	062-9DUP-Q3-02-21	PAHs	SW8310	Fluoranthene	0.0526	U	UJ	L
L0209285-08	062-9DUP-Q3-02-21	PAHs	SW8310	1-Methylnaphthalene	1.43	=	J	L
L0209285-08	062-9DUP-Q3-02-21	PAHs	SW8310	Anthracene	0.3	U	UJ	L
L0209285-08	062-9DUP-Q3-02-21	TPH	SW8015	FLPRO	633	=	U	F
L0209285-09	062-9EQB-Q3-02-21	TPH	SW8015	FLPRO	417	J	U	F
L0209310-01	062-CEF46-2S-Q3-02-20	TPH	SW8015	FLPRO	488	J	UJ	SF
L0209310-02	062-CEF46-7I-Q3-02-20	PAHs	SW8310	Benzo(b)fluoranthene	0.0351	U	UJ	S
L0209310-02	062-CEF46-7I-Q3-02-20	PAHs	SW8310	Benzo(k)fluoranthene	0.0742	U	UJ	S
L0209310-02	062-CEF46-7I-Q3-02-20	PAHs	SW8310	Acenaphthylene	0.362	U	UJ	S
L0209310-02	062-CEF46-7I-Q3-02-20	PAHs	SW8310	Chrysene	0.0247	U	UJ	S
L0209310-02	062-CEF46-7I-Q3-02-20	PAHs	SW8310	Fluorene	0.576	U	UJ	S
L0209310-02	062-CEF46-7I-Q3-02-20	PAHs	SW8310	Phenanthrene	0.296	U	UJ	S
L0209310-02	062-CEF46-7I-Q3-02-20	PAHs	SW8310	Benzo(g,h,i)perylene	0.0515	U	UJ	S
L0209310-02	062-CEF46-7I-Q3-02-20	PAHs	SW8310	Acenaphthene	0.428	U	UJ	S
L0209310-02	062-CEF46-7I-Q3-02-20	PAHs	SW8310	Naphthalene	9.75	=	J	S
L0209310-02	062-CEF46-7I-Q3-02-20	PAHs	SW8310	Fluoranthene	0.0515	U	UJ	S
L0209310-02	062-CEF46-7I-Q3-02-20	PAHs	SW8310	Anthracene	0.294	U	UJ	S
L0209310-02	062-CEF46-7I-Q3-02-20	PAHs	SW8310	Dibenz(a,h)anthracene	0.0794	U	UJ	S
L0209310-02	062-CEF46-7I-Q3-02-20	PAHs	SW8310	Benzo(a)pyrene	0.0546	U	UJ	S
L0209310-02	062-CEF46-7I-Q3-02-20	PAHs	SW8310	1-Methylnaphthalene	0.373	U	UJ	S
L0209310-02	062-CEF46-7I-Q3-02-20	PAHs	SW8310	Pyrene	0.0701	U	UJ	S
L0209310-02	062-CEF46-7I-Q3-02-20	PAHs	SW8310	2-Methylnaphthalene	1.37	=	J	S
L0209310-02	062-CEF46-7I-Q3-02-20	PAHs	SW8310	Indeno(1,2,3-cd)pyrene	0.0825	U	UJ	S
L0209310-02	062-CEF46-7I-Q3-02-20	PAHs	SW8310	Benzo(a)anthracene	0.0309	U	UJ	S
L0209310-02	062-CEF46-7I-Q3-02-20	TPH	SW8015	FLPRO	950	=	U	F
L0209310-03	062-CEF46-9I-Q3-02-20	TPH	SW8015	FLPRO	623	=	U	F
L0209310-06	062-CEF46-12I-Q3-02-20	NO3	SW9056	Nitrate	0.107	J	U	F
L0209310-06	062-CEF46-12I-Q3-02-20	TPH	SW8015	FLPRO	564	=	U	F
L0209310-07	062-CEF46-13I-Q3-02-20	TPH	SW8015	FLPRO	745	=	U	F
L0209310-08	062-CEF46-14D-Q3-02-20	TPH	SW8015	FLPRO	554	=	U	F
L0209310-09	062-CEF46-15I-Q3-02-20	TPH	SW8015	FLPRO	668	=	U	F
L0209337-01	062-CEF46-1S-Q3-02-20	PAHs	SW8310	Fluorene	0.559	U	UJ	S
L0209337-01	062-CEF46-1S-Q3-02-20	PAHs	SW8310	Chrysene	0.024	U	UJ	S
L0209337-01	062-CEF46-1S-Q3-02-20DL1	PAHs	SW8310	Chrysene	0.24	U	R	D
L0209337-01	062-CEF46-1S-Q3-02-20	PAHs	SW8310	Acenaphthene	0.415	U	UJ	S
L0209337-01	062-CEF46-1S-Q3-02-20DL1	PAHs	SW8310	Acenaphthene	4.15	U	R	D
L0209337-01	062-CEF46-1S-Q3-02-20DL1	PAHs	SW8310	Pyrene	0.68	U	R	D
L0209337-01	062-CEF46-1S-Q3-02-20	PAHs	SW8310	Dibenz(a,h)anthracene	0.077	U	UJ	S
L0209337-01	062-CEF46-1S-Q3-02-20DL1	PAHs	SW8310	Acenaphthylene	3.51	U	R	D
L0209337-01	062-CEF46-1S-Q3-02-20DL1	PAHs	SW8310	Fluorene	5.59	U	R	D
L0209337-01	062-CEF46-1S-Q3-02-20DL1	PAHs	SW8310	Dibenz(a,h)anthracene	0.77	U	R	D
L0209337-01	062-CEF46-1S-Q3-02-20	PAHs	SW8310	Phenanthrene	0.287	U	UJ	S
L0209337-01	062-CEF46-1S-Q3-02-20DL1	PAHs	SW8310	Benzo(k)fluoranthene	0.72	U	R	D
L0209337-01	062-CEF46-1S-Q3-02-20DL1	PAHs	SW8310	Phenanthrene	2.87	U	R	D
L0209337-01	062-CEF46-1S-Q3-02-20	PAHs	SW8310	Benzo(k)fluoranthene	0.072	U	UJ	S
L0209337-01	062-CEF46-1S-Q3-02-20	PAHs	SW8310	Acenaphthylene	0.351	U	UJ	S
L0209337-01	062-CEF46-1S-Q3-02-20	PAHs	SW8310	Pyrene	0.068	U	UJ	S
L0209337-01	062-CEF46-1S-Q3-02-20	PAHs	SW8310	Fluoranthene	0.05	U	UJ	S

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Lab Sample ID	Field Sample ID	Analysis	Method	Parameter Name	Result	Lab Qual	DV Qual	DV Qual Code
L0209337-01	062-CEF46-1S-Q3-02-20	PAHs	SW8310	Anthracene	0.285	U	UJ	S
L0209337-01	062-CEF46-1S-Q3-02-20	PAHs	SW8310	Benzo(b)fluoranthene	0.034	U	UJ	S
L0209337-01	062-CEF46-1S-Q3-02-20	PAHs	SW8310	Benzo(a)pyrene	0.053	U	UJ	S
L0209337-01	062-CEF46-1S-Q3-02-20DL1	PAHs	SW8310	Benzo(b)fluoranthene	0.34	U	R	D
L0209337-01	062-CEF46-1S-Q3-02-20DL1	PAHs	SW8310	Benzo(a)pyrene	0.53	U	R	D
L0209337-01	062-CEF46-1S-Q3-02-20DL1	PAHs	SW8310	Indeno(1,2,3-cd)pyrene	0.8	U	R	D
L0209337-01	062-CEF46-1S-Q3-02-20DL1	PAHs	SW8310	2-Methylnaphthalene	3.36	U	R	D
L0209337-01	062-CEF46-1S-Q3-02-20DL1	PAHs	SW8310	Anthracene	2.85	U	R	D
L0209337-01	062-CEF46-1S-Q3-02-20DL1	PAHs	SW8310	Fluoranthene	0.5	U	R	D
L0209337-01	062-CEF46-1S-Q3-02-20	PAHs	SW8310	Benzo(a)anthracene	0.03	U	UJ	S
L0209337-01	062-CEF46-1S-Q3-02-20	PAHs	SW8310	Naphthalene	157	I	R	D
L0209337-01	062-CEF46-1S-Q3-02-20DL1	PAHs	SW8310	Benzo(a)anthracene	0.3	U	R	D
L0209337-01	062-CEF46-1S-Q3-02-20DL1	PAHs	SW8310	Naphthalene	173	=	J	S
L0209337-01	062-CEF46-1S-Q3-02-20	PAHs	SW8310	2-Methylnaphthalene	52	=	J	S
L0209337-01	062-CEF46-1S-Q3-02-20DL1	PAHs	SW8310	1-Methylnaphthalene	3.62	U	R	D
L0209337-01	062-CEF46-1S-Q3-02-20	PAHs	SW8310	Benzo(g,h,i)perylene	0.05	U	UJ	S
L0209337-01	062-CEF46-1S-Q3-02-20DL1	PAHs	SW8310	Benzo(g,h,i)perylene	0.5	U	R	D
L0209337-01	062-CEF46-1S-Q3-02-20	PAHs	SW8310	1-Methylnaphthalene	18.6	=	J	S
L0209337-01	062-CEF46-1S-Q3-02-20	PAHs	SW8310	Indeno(1,2,3-cd)pyrene	0.08	U	UJ	S
L0209337-02	062-CEF46-5I-Q3-02-20	PAHs	SW8310	Chrysene	0.0255	U	UJ	S
L0209337-02	062-CEF46-5I-Q3-02-20	PAHs	SW8310	Benzo(a)pyrene	0.0564	U	UJ	S
L0209337-02	062-CEF46-5I-Q3-02-20	PAHs	SW8310	1-Methylnaphthalene	0.385	U	UJ	S
L0209337-02	062-CEF46-5I-Q3-02-20	PAHs	SW8310	Dibenz(a,h)anthracene	0.0819	U	UJ	S
L0209337-02	062-CEF46-5I-Q3-02-20	PAHs	SW8310	Benzo(a)anthracene	0.0319	U	UJ	S
L0209337-02	062-CEF46-5I-Q3-02-20	PAHs	SW8310	Pyrene	0.0723	U	UJ	S
L0209337-02	062-CEF46-5I-Q3-02-20	PAHs	SW8310	Acenaphthene	0.441	U	UJ	S
L0209337-02	062-CEF46-5I-Q3-02-20	PAHs	SW8310	Benzo(b)fluoranthene	0.0362	U	UJ	S
L0209337-02	062-CEF46-5I-Q3-02-20	PAHs	SW8310	Fluorene	0.595	U	UJ	S
L0209337-02	062-CEF46-5I-Q3-02-20	PAHs	SW8310	Naphthalene	0.382	U	UJ	S
L0209337-02	062-CEF46-5I-Q3-02-20	PAHs	SW8310	Indeno(1,2,3-cd)pyrene	0.0851	U	UJ	S
L0209337-02	062-CEF46-5I-Q3-02-20	PAHs	SW8310	Fluoranthene	0.0532	U	UJ	S
L0209337-02	062-CEF46-5I-Q3-02-20	PAHs	SW8310	Phenanthrene	0.305	U	UJ	S
L0209337-02	062-CEF46-5I-Q3-02-20	PAHs	SW8310	Anthracene	0.303	U	UJ	S
L0209337-02	062-CEF46-5I-Q3-02-20	PAHs	SW8310	Benzo(k)fluoranthene	0.0766	U	UJ	S
L0209337-02	062-CEF46-5I-Q3-02-20	PAHs	SW8310	Benzo(g,h,i)perylene	0.0532	U	UJ	S
L0209337-02	062-CEF46-5I-Q3-02-20	PAHs	SW8310	2-Methylnaphthalene	0.357	U	UJ	S
L0209337-02	062-CEF46-5I-Q3-02-20	PAHs	SW8310	Acenaphthylene	0.373	U	UJ	S
L0209337-02	062-CEF46-5I-Q3-02-20	TPH	SW8015	FLPRO	776	=	U	F
L0209337-03	062-CEF46-6D-Q3-02-20	PAHs	SW8310	Acenaphthene	0.446	U	UJ	S
L0209337-03	062-CEF46-6D-Q3-02-20	PAHs	SW8310	Benzo(a)pyrene	0.057	U	UJ	S
L0209337-03	062-CEF46-6D-Q3-02-20	PAHs	SW8310	Benzo(k)fluoranthene	0.0774	U	UJ	S
L0209337-03	062-CEF46-6D-Q3-02-20	PAHs	SW8310	Anthracene	0.306	U	UJ	S
L0209337-03	062-CEF46-6D-Q3-02-20	PAHs	SW8310	Benzo(b)fluoranthene	0.0366	U	UJ	S
L0209337-03	062-CEF46-6D-Q3-02-20	PAHs	SW8310	Benzo(a)anthracene	0.0323	U	UJ	S
L0209337-03	062-CEF46-6D-Q3-02-20	PAHs	SW8310	Acenaphthylene	0.377	U	UJ	S
L0209337-03	062-CEF46-6D-Q3-02-20	PAHs	SW8310	Benzo(g,h,i)perylene	0.0538	U	UJ	S
L0209337-03	062-CEF46-6D-Q3-02-20	PAHs	SW8310	Fluoranthene	0.0538	U	UJ	S
L0209337-03	062-CEF46-6D-Q3-02-20	PAHs	SW8310	1-Methylnaphthalene	0.389	U	UJ	S
L0209337-03	062-CEF46-6D-Q3-02-20	PAHs	SW8310	Naphthalene	0.386	U	UJ	S
L0209337-03	062-CEF46-6D-Q3-02-20	PAHs	SW8310	Fluorene	0.601	U	UJ	S
L0209337-03	062-CEF46-6D-Q3-02-20	PAHs	SW8310	Chrysene	0.0258	U	UJ	S
L0209337-03	062-CEF46-6D-Q3-02-20	PAHs	SW8310	Pyrene	0.0731	U	UJ	S
L0209337-03	062-CEF46-6D-Q3-02-20	PAHs	SW8310	Indeno(1,2,3-cd)pyrene	0.086	U	UJ	S
L0209337-03	062-CEF46-6D-Q3-02-20	PAHs	SW8310	Dibenz(a,h)anthracene	0.0828	U	UJ	S
L0209337-03	062-CEF46-6D-Q3-02-20	PAHs	SW8310	2-Methylnaphthalene	0.361	U	UJ	S
L0209337-03	062-CEF46-6D-Q3-02-20	PAHs	SW8310	Phenanthrene	0.309	U	UJ	S
L0209337-03	062-CEF46-6D-Q3-02-20	TPH	SW8015	FLPRO	840	=	U	F

Table 4
Summary of Qualified Data
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Lab Sample ID	Field Sample ID	Analysis	Method	Parameter Name	Result	Lab Qual	DV Qual	DV Qual Code
L0209337-04	062-CEF46-21I-Q3-02-20	PAHs	SW8310	Pyrene	0.068	U	UJ	S
L0209337-04	062-CEF46-21I-Q3-02-20	PAHs	SW8310	Naphthalene	0.359	U	UJ	S
L0209337-04	062-CEF46-21I-Q3-02-20	PAHs	SW8310	Benzo(b)fluoranthene	0.034	U	UJ	S
L0209337-04	062-CEF46-21I-Q3-02-20	PAHs	SW8310	Anthracene	0.285	U	UJ	S
L0209337-04	062-CEF46-21I-Q3-02-20	PAHs	SW8310	Fluorene	0.559	U	UJ	S
L0209337-04	062-CEF46-21I-Q3-02-20	PAHs	SW8310	Phenanthrene	0.287	U	UJ	S
L0209337-04	062-CEF46-21I-Q3-02-20	PAHs	SW8310	Benzo(g,h,i)perylene	0.05	U	UJ	S
L0209337-04	062-CEF46-21I-Q3-02-20	PAHs	SW8310	Acenaphthylene	0.351	U	UJ	S
L0209337-04	062-CEF46-21I-Q3-02-20	PAHs	SW8310	Acenaphthene	0.415	U	UJ	S
L0209337-04	062-CEF46-21I-Q3-02-20	PAHs	SW8310	Benzo(k)fluoranthene	0.072	U	UJ	S
L0209337-04	062-CEF46-21I-Q3-02-20	PAHs	SW8310	2-Methylnaphthalene	0.336	U	UJ	S
L0209337-04	062-CEF46-21I-Q3-02-20	PAHs	SW8310	Benzo(a)pyrene	0.053	U	UJ	S
L0209337-04	062-CEF46-21I-Q3-02-20	PAHs	SW8310	Dibenz(a,h)anthracene	0.077	U	UJ	S
L0209337-04	062-CEF46-21I-Q3-02-20	PAHs	SW8310	Indeno(1,2,3-cd)pyrene	0.08	U	UJ	S
L0209337-04	062-CEF46-21I-Q3-02-20	PAHs	SW8310	Fluoranthene	0.05	U	UJ	S
L0209337-04	062-CEF46-21I-Q3-02-20	PAHs	SW8310	Benzo(a)anthracene	0.03	U	UJ	S
L0209337-04	062-CEF46-21I-Q3-02-20	PAHs	SW8310	Chrysene	0.024	U	UJ	S
L0209337-04	062-CEF46-21I-Q3-02-20	PAHs	SW8310	1-Methylnaphthalene	0.362	U	UJ	S
L0209337-04	062-CEF46-21I-Q3-02-20	TPH	SW8015	FLPRO	834	=	U	F
L0209337-05	062-CEF46-24D-Q3-02-20	PAHs	SW8310	Acenaphthylene	0.366	U	UJ	S
L0209337-05	062-CEF46-24D-Q3-02-20	PAHs	SW8310	2-Methylnaphthalene	0.35	U	UJ	S
L0209337-05	062-CEF46-24D-Q3-02-20	PAHs	SW8310	Fluoranthene	0.0521	U	UJ	S
L0209337-05	062-CEF46-24D-Q3-02-20	PAHs	SW8310	Anthracene	0.297	U	UJ	S
L0209337-05	062-CEF46-24D-Q3-02-20	PAHs	SW8310	Benzo(b)fluoranthene	0.0354	U	UJ	S
L0209337-05	062-CEF46-24D-Q3-02-20	PAHs	SW8310	Naphthalene	0.374	U	UJ	S
L0209337-05	062-CEF46-24D-Q3-02-20	PAHs	SW8310	Benzo(a)pyrene	0.0552	U	UJ	S
L0209337-05	062-CEF46-24D-Q3-02-20	PAHs	SW8310	1-Methylnaphthalene	0.377	U	UJ	S
L0209337-05	062-CEF46-24D-Q3-02-20	PAHs	SW8310	Indeno(1,2,3-cd)pyrene	0.0833	U	UJ	S
L0209337-05	062-CEF46-24D-Q3-02-20	PAHs	SW8310	Pyrene	0.0708	U	UJ	S
L0209337-05	062-CEF46-24D-Q3-02-20	PAHs	SW8310	Chrysene	0.025	U	UJ	S
L0209337-05	062-CEF46-24D-Q3-02-20	PAHs	SW8310	Benzo(a)anthracene	0.0313	U	UJ	S
L0209337-05	062-CEF46-24D-Q3-02-20	PAHs	SW8310	Benzo(g,h,i)perylene	0.0521	U	UJ	S
L0209337-05	062-CEF46-24D-Q3-02-20	PAHs	SW8310	Benzo(k)fluoranthene	0.075	U	UJ	S
L0209337-05	062-CEF46-24D-Q3-02-20	PAHs	SW8310	Dibenz(a,h)anthracene	0.0802	U	UJ	S
L0209337-05	062-CEF46-24D-Q3-02-20	PAHs	SW8310	Acenaphthene	0.432	U	UJ	S
L0209337-05	062-CEF46-24D-Q3-02-20	PAHs	SW8310	Phenanthrene	0.299	U	UJ	S
L0209337-05	062-CEF46-24D-Q3-02-20	PAHs	SW8310	Fluorene	0.582	U	UJ	S
L0209337-05	062-CEF46-24D-Q3-02-20	TPH	SW8015	FLPRO	779	=	U	F
L0209337-06	062-CEF46-25I-Q3-02-20	PAHs	SW8310	Anthracene	0.285	U	UJ	S
L0209337-06	062-CEF46-25I-Q3-02-20	PAHs	SW8310	Indeno(1,2,3-cd)pyrene	0.08	U	UJ	S
L0209337-06	062-CEF46-25I-Q3-02-20	PAHs	SW8310	Benzo(a)anthracene	0.03	U	UJ	S
L0209337-06	062-CEF46-25I-Q3-02-20	PAHs	SW8310	Dibenz(a,h)anthracene	0.077	U	UJ	S
L0209337-06	062-CEF46-25I-Q3-02-20	PAHs	SW8310	Naphthalene	0.359	U	UJ	S
L0209337-06	062-CEF46-25I-Q3-02-20	PAHs	SW8310	Acenaphthene	0.415	U	UJ	S
L0209337-06	062-CEF46-25I-Q3-02-20	PAHs	SW8310	Benzo(a)pyrene	0.053	U	UJ	S
L0209337-06	062-CEF46-25I-Q3-02-20	PAHs	SW8310	Fluoranthene	0.05	U	UJ	S
L0209337-06	062-CEF46-25I-Q3-02-20	PAHs	SW8310	1-Methylnaphthalene	0.362	U	UJ	S
L0209337-06	062-CEF46-25I-Q3-02-20	PAHs	SW8310	Acenaphthylene	0.351	U	UJ	S
L0209337-06	062-CEF46-25I-Q3-02-20	PAHs	SW8310	Fluorene	0.559	U	UJ	S
L0209337-06	062-CEF46-25I-Q3-02-20	PAHs	SW8310	Chrysene	0.024	U	UJ	S
L0209337-06	062-CEF46-25I-Q3-02-20	PAHs	SW8310	Benzo(g,h,i)perylene	0.05	U	UJ	S
L0209337-06	062-CEF46-25I-Q3-02-20	PAHs	SW8310	2-Methylnaphthalene	0.336	U	UJ	S
L0209337-06	062-CEF46-25I-Q3-02-20	PAHs	SW8310	Benzo(k)fluoranthene	0.072	U	UJ	S
L0209337-06	062-CEF46-25I-Q3-02-20	PAHs	SW8310	Benzo(b)fluoranthene	0.034	U	UJ	S
L0209337-06	062-CEF46-25I-Q3-02-20	PAHs	SW8310	Phenanthrene	0.287	U	UJ	S
L0209337-06	062-CEF46-25I-Q3-02-20	PAHs	SW8310	Pyrene	0.068	U	UJ	S
L0209337-06	062-CEF46-25I-Q3-02-20	TPH	SW8015	FLPRO	810	=	U	F

Table 4
Summary of Qualified Data
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Lab Sample ID	Field Sample ID	Analysis	Method	Parameter Name	Result	Lab Qual	DV Qual	DV Qual Code
L0209337-07	062-CEF46-26I-Q3-02-20	PAHs	SW8310	Dibenz(a,h)anthracene	0.0819	U	UJ	S
L0209337-07	062-CEF46-26I-Q3-02-20	PAHs	SW8310	Indeno(1,2,3-cd)pyrene	0.0851	U	UJ	S
L0209337-07	062-CEF46-26I-Q3-02-20	PAHs	SW8310	Pyrene	0.0723	U	UJ	S
L0209337-07	062-CEF46-26I-Q3-02-20	PAHs	SW8310	Chrysene	0.0255	U	UJ	S
L0209337-07	062-CEF46-26I-Q3-02-20	PAHs	SW8310	2-Methylnaphthalene	0.357	U	UJ	S
L0209337-07	062-CEF46-26I-Q3-02-20	PAHs	SW8310	Benzo(k)fluoranthene	0.0766	U	UJ	S
L0209337-07	062-CEF46-26I-Q3-02-20	PAHs	SW8310	Benzo(a)pyrene	0.0564	U	UJ	S
L0209337-07	062-CEF46-26I-Q3-02-20	PAHs	SW8310	Anthracene	0.303	U	UJ	S
L0209337-07	062-CEF46-26I-Q3-02-20	PAHs	SW8310	Acenaphthene	0.441	U	UJ	S
L0209337-07	062-CEF46-26I-Q3-02-20	PAHs	SW8310	Fluorene	0.595	U	UJ	S
L0209337-07	062-CEF46-26I-Q3-02-20	PAHs	SW8310	Phenanthrene	0.305	U	UJ	S
L0209337-07	062-CEF46-26I-Q3-02-20	PAHs	SW8310	Naphthalene	0.382	U	UJ	S
L0209337-07	062-CEF46-26I-Q3-02-20	PAHs	SW8310	Benzo(b)fluoranthene	0.0362	U	UJ	S
L0209337-07	062-CEF46-26I-Q3-02-20	PAHs	SW8310	Fluoranthene	0.0532	U	UJ	S
L0209337-07	062-CEF46-26I-Q3-02-20	PAHs	SW8310	Benzo(a)anthracene	0.0319	U	UJ	S
L0209337-07	062-CEF46-26I-Q3-02-20	PAHs	SW8310	Benzo(g,h,i)perylene	0.0532	U	UJ	S
L0209337-07	062-CEF46-26I-Q3-02-20	PAHs	SW8310	1-Methylnaphthalene	0.385	U	UJ	S
L0209337-07	062-CEF46-26I-Q3-02-20	PAHs	SW8310	Acenaphthylene	0.373	U	UJ	S
L0209337-07	062-CEF46-26I-Q3-02-20	TPH	SW8015	FLPRO	1350	=	U	F
L0209516-01	062-CEF46-SB1-S-Q3-02DL1	PAHs	SW8310	Anthracene	500	U	R	D
L0209516-01	062-CEF46-SB1-S-Q3-02	PAHs	SW8310	2-Methylnaphthalene	14900	I	R	D
L0209516-01	062-CEF46-SB1-S-Q3-02DL1	PAHs	SW8310	Acenaphthylene	548	U	R	D
L0209516-01	062-CEF46-SB1-S-Q3-02DL1	PAHs	SW8310	Phenanthrene	573	U	R	D
L0209516-01	062-CEF46-SB1-S-Q3-02DL1	PAHs	SW8310	Acenaphthene	682	U	R	D
L0209516-01	062-CEF46-SB1-S-Q3-02DL1	PAHs	SW8310	Pyrene	45.1	U	R	D
L0209516-01	062-CEF46-SB1-S-Q3-02	PAHs	SW8310	Naphthalene	10300	I	R	D
L0209516-01	062-CEF46-SB1-S-Q3-02DL1	PAHs	SW8310	Fluorene	695	U	R	D
L0209516-01	062-CEF46-SB1-S-Q3-02DL1	PAHs	SW8310	Benzo(b)fluoranthene	58.5	U	R	D
L0209516-01	062-CEF46-SB1-S-Q3-02DL1	PAHs	SW8310	Benzo(k)fluoranthene	24.4	U	R	D
L0209516-01	062-CEF46-SB1-S-Q3-02DL1	PAHs	SW8310	Benzo(a)pyrene	35.3	U	R	D
L0209516-01	062-CEF46-SB1-S-Q3-02DL1	PAHs	SW8310	Benzo(a)anthracene	46.3	U	R	D
L0209516-01	062-CEF46-SB1-S-Q3-02DL1	PAHs	SW8310	Indeno(1,2,3-cd)pyrene	39	U	R	D
L0209516-01	062-CEF46-SB1-S-Q3-02DL1	PAHs	SW8310	Fluoranthene	45.1	U	R	D
L0209516-01	062-CEF46-SB1-S-Q3-02DL1	PAHs	SW8310	Chrysene	46.3	U	R	D
L0209516-01	062-CEF46-SB1-S-Q3-02DL1	PAHs	SW8310	Benzo(g,h,i)perylene	43.9	U	R	D
L0209516-01	062-CEF46-SB1-S-Q3-02DL1	PAHs	SW8310	Dibenz(a,h)anthracene	54.8	U	R	D
L0209516-02	062-CEF46-SB2-S-Q3-02	PAHs	SW8310	Benzo(g,h,i)perylene	16	J	J	S
L0209516-02	062-CEF46-SB2-S-Q3-02DL1	PAHs	SW8310	Benzo(g,h,i)perylene	42	U	R	D
L0209516-02	062-CEF46-SB2-S-Q3-02DL1	PAHs	SW8310	Acenaphthene	653	U	R	D
L0209516-02	062-CEF46-SB2-S-Q3-02	PAHs	SW8310	Indeno(1,2,3-cd)pyrene	7.95	J	J	S
L0209516-02	062-CEF46-SB2-S-Q3-02	PAHs	SW8310	Phenanthrene	986	=	J	S
L0209516-02	062-CEF46-SB2-S-Q3-02DL1	PAHs	SW8310	Phenanthrene	548	U	R	D
L0209516-02	062-CEF46-SB2-S-Q3-02DL1	PAHs	SW8310	Benzo(b)fluoranthene	56	U	R	D
L0209516-02	062-CEF46-SB2-S-Q3-02DL1	PAHs	SW8310	Acenaphthylene	525	U	R	D
L0209516-02	062-CEF46-SB2-S-Q3-02	PAHs	SW8310	Dibenz(a,h)anthracene	32.1	J	J	S
L0209516-02	062-CEF46-SB2-S-Q3-02	PAHs	SW8310	Naphthalene	11300	I	R	D
L0209516-02	062-CEF46-SB2-S-Q3-02	PAHs	SW8310	Benzo(b)fluoranthene	30.2	J	J	S
L0209516-02	062-CEF46-SB2-S-Q3-02DL1	PAHs	SW8310	Dibenz(a,h)anthracene	52.5	U	R	D
L0209516-02	062-CEF46-SB2-S-Q3-02DL1	PAHs	SW8310	Fluorene	664	U	R	D
L0209516-02	062-CEF46-SB2-S-Q3-02DL1	PAHs	SW8310	Anthracene	478	U	R	D
L0209516-02	062-CEF46-SB2-S-Q3-02	PAHs	SW8310	Benzo(a)anthracene	116	J	J	S
L0209516-02	062-CEF46-SB2-S-Q3-02	PAHs	SW8310	1-Methylnaphthalene	6680	I	R	D
L0209516-02	062-CEF46-SB2-S-Q3-02DL1	PAHs	SW8310	Benzo(a)anthracene	44.3	U	R	D
L0209516-02	062-CEF46-SB2-S-Q3-02DL1	PAHs	SW8310	Pyrene	43.1	U	R	D
L0209516-02	062-CEF46-SB2-S-Q3-02DL1	PAHs	SW8310	Indeno(1,2,3-cd)pyrene	37.3	U	R	D
L0209516-02	062-CEF46-SB2-S-Q3-02	PAHs	SW8310	Fluoranthene	173	J	J	S
L0209516-02	062-CEF46-SB2-S-Q3-02	PAHs	SW8310	Pyrene	60	J	J	S

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Summary of Qualified Data
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Lab Sample ID	Field Sample ID	Analysis	Method	Parameter Name	Result	Lab Qual	DV Qual	DV Qual Code
L0209516-02	062-CEF46-SB2-S-Q3-02DL1	PAHs	SW8310	Fluoranthene	43.1	U	R	D
L0209516-02	062-CEF46-SB2-S-Q3-02DL1	PAHs	SW8310	Chrysene	44.3	U	R	D
L0209516-02	062-CEF46-SB2-S-Q3-02	PAHs	SW8310	Benzo(a)pyrene	29.4	=	J	S
L0209516-02	062-CEF46-SB2-S-Q3-02DL1	PAHs	SW8310	Benzo(a)pyrene	33.8	U	R	D
L0209516-02	062-CEF46-SB2-S-Q3-02	PAHs	SW8310	2-Methylnaphthalene	14600	I	R	D
L0209516-02	062-CEF46-SB2-S-Q3-02DL1	PAHs	SW8310	Benzo(k)fluoranthene	23.3	U	R	D
L0209516-02	062-CEF46-SB2-S-Q3-02	PAHs	SW8310	Benzo(k)fluoranthene	41.9	J	J	S
L0209516-03	062-CEF46-SB14-S-Q3-02	VOCs	SW8021B	Xylene (total)	23.4	=	J	S
L0209516-03	062-CEF46-SB14-S-Q3-02	VOCs	SW8021B	Ethylbenzene	24.9	=	J	S
L0209516-03	062-CEF46-SB14-S-Q3-02	VOCs	SW8021B	tert-Butyl methyl ether	3.68	=	J	S
L0209516-04	062-CEF46-EQB-W-Q3-02	PAHs	SW8310	Anthracene	0.337	J	U	F
L0209516-04	062-CEF46-EQB-W-Q3-02	TPH	SW8015	FLPRO	1320	=	U	F
L0209517-01	062-CEF9-SB1-S-Q3-02	PAHs	SW8310	Chrysene	105	=	J	S
L0209517-01	062-CEF9-SB1-S-Q3-02	PAHs	SW8310	Benzo(k)fluoranthene	91.1	=	J	S
L0209517-01	062-CEF9-SB1-S-Q3-02	PAHs	SW8310	Pyrene	188	=	J	S
L0209517-01	062-CEF9-SB1-S-Q3-02	PAHs	SW8310	Naphthalene	67.6	U	UJ	S
L0209517-01	062-CEF9-SB1-S-Q3-02	PAHs	SW8310	Fluoranthene	105	J	J	S
L0209517-01	062-CEF9-SB1-S-Q3-02	PAHs	SW8310	1-Methylnaphthalene	5.63	U	UJ	S
L0209517-01	062-CEF9-SB1-S-Q3-02	PAHs	SW8310	Benzo(a)anthracene	49.4	=	J	S
L0209517-01	062-CEF9-SB1-S-Q3-02	PAHs	SW8310	Indeno(1,2,3-cd)pyrene	104	J	J	S
L0209517-01	062-CEF9-SB1-S-Q3-02	PAHs	SW8310	Anthracene	44	U	UJ	S
L0209517-01	062-CEF9-SB1-S-Q3-02	PAHs	SW8310	Fluorene	61.2	U	UJ	S
L0209517-01	062-CEF9-SB1-S-Q3-02	PAHs	SW8310	2-Methylnaphthalene	11.5	J	J	S
L0209517-01	062-CEF9-SB1-S-Q3-02	PAHs	SW8310	Acenaphthene	60.1	U	UJ	S
L0209517-01	062-CEF9-SB1-S-Q3-02	PAHs	SW8310	Acenaphthylene	48.3	U	UJ	S
L0209517-01	062-CEF9-SB1-S-Q3-02	PAHs	SW8310	Benzo(b)fluoranthene	227	=	J	S
L0209517-01	062-CEF9-SB1-S-Q3-02	PAHs	SW8310	Benzo(g,h,i)perylene	257	=	J	S
L0209517-01	062-CEF9-SB1-S-Q3-02	PAHs	SW8310	Dibenz(a,h)anthracene	143	=	J	S
L0209517-01	062-CEF9-SB1-S-Q3-02	PAHs	SW8310	Phenanthrene	50.4	U	UJ	S
L0209517-01	062-CEF9-SB1-S-Q3-02	PAHs	SW8310	Benzo(a)pyrene	201	=	J	S
L0209517-02	062-CEF9-EQB-W-Q3-02	PAHs	SW8310	Anthracene	0.369	J	U	F
L0209517-02	062-CEF9-EQB-W-Q3-02	PAHs	SW8310	Phenanthrene	0.386	J	U	F
L0209517-02	062-CEF9-EQB-W-Q3-02	TPH	SW8015	FLPRO	1250	=	U	F

Appendix C

Laboratory Analytical Reports for Air Samples
(provided on CD)

SEVERN TRENT SERVICES

STL Pensacola

CASE NARRATIVE

STL Order Number: C207404
Project: CH2M Hill Construction
NAS Cecil Field, 103RD Street – CTO-0062

Client Sample ID	STL Sample ID
062-SVE-E-A-0715-02-26	C207404-1

The above-referenced samples were received at STL Pensacola on July 18, 2002. See Project Sample Inspection Form (PSIF) for further information.

Rick Hayes
Senior Project Manager

7/30/02

SEVERN TRENT SERVICES

STL Pensacola

LOG NO: C2-07404
Received: 18 JUL 02
Reported: 30 JUL 02

Ms. Tatiana Romanova
CH2M Hill Constructors, Inc. (CCI)
115 Perimeter Center Place, NE Suite 700
Atlanta, GA 30346

Client PO. No.: 2916

Contract No.: CT0-0062
Project: CTO-0062, 103RD STREET MONTHLY AIR
Sampled By: Client
Code: 110120730

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , AIR SAMPLES	DATE/ TIME SAMPLED
07404-1	062-SVE-E-A-0715-02-26	07-15-02/14:30

PARAMETER	07404-1
Volatile Organic Compounds in Air (MOD-TO14)	
Benzene, mg/m3	0.060U
Bromodichloromethane, mg/m3	0.060U
Bromoform, mg/m3	0.060U
Bromomethane (Methyl bromide), mg/m3	0.060U
Carbon disulfide, mg/m3	0.060U
Carbon tetrachloride, mg/m3	0.060U
Chlorobenzene, mg/m3	0.060U
Chloroethane, mg/m3	0.060U
Chloroform, mg/m3	0.060U
Chloromethane (Methyl chloride), mg/m3	0.060U
2-Chlorotoluene, mg/m3	0.060U
Dibromochloromethane, mg/m3	0.060U
1,2-Dibromoethane (EDB), mg/m3	0.060U
1,2-Dichlorobenzene, mg/m3	0.060U
1,3-Dichlorobenzene, mg/m3	0.060U
1,4-Dichlorobenzene, mg/m3	0.060U
trans-1,4-Dichloro-2-butene, mg/m3	0.060U
Dichlorodifluoromethane, mg/m3	0.060U
1,1-Dichloroethane, mg/m3	0.060U
1,2-Dichloroethane, mg/m3	0.060U
1,1-Dichloroethene, mg/m3	0.060U
cis-1,2-Dichloroethene, mg/m3	0.060U
trans-1,2-Dichloroethene, mg/m3	0.060U
1,2-Dichloropropane, mg/m3	0.060U
cis-1,3-Dichloropropene, mg/m3	0.060U

SEVERN TRENT SERVICES

STL Pensacola

LOG NO: C2-07404
Received: 18 JUL 02
Reported: 30 JUL 02

Ms. Tatiana Romanova
CH2M Hill Constructors, Inc. (CCI)
115 Perimeter Center Place, NE Suite 700
Atlanta, GA 30346

Client PO. No.: 2916

Contract No.: CT0-0062
Project: CTO-0062, 103RD STREET MONTHLY AIR
Sampled By: Client
Code: 110120730

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , AIR SAMPLES	DATE/ TIME SAMPLED
07404-1	062-SVE-E-A-0715-02-26	07-15-02/14:30

PARAMETER	07404-1
trans-1,3-Dichloropropene, mg/m3	0.060U
Dichlorotetrafluoroethane, mg/m3	0.060U
Ethylbenzene, mg/m3	0.060U
Hexane, mg/m3	0.060U
4-Ethyltoluene, mg/m3	0.060U
Methylene chloride (Dichloromethane), mg/m3	0.060U
Methyl t-butyl ether (MTBE), mg/m3	0.060U
Styrene, mg/m3	0.060U
1,1,2,2-Tetrachloroethane, mg/m3	0.060U
Tetrachloroethene, mg/m3	0.060U
Toluene, mg/m3	0.060U
1,2,4-Trichlorobenzene, mg/m3	0.060U
1,1,1-Trichloroethane, mg/m3	0.060U
1,1,2-Trichloroethane, mg/m3	0.060U
Trichloroethene, mg/m3	0.060U
Trichlorofluoromethane, mg/m3	0.060U
1,1,2-Trichloro-1,2,2-trifluoroethane, mg/m3	0.060U
1,2,4-Trimethylbenzene, mg/m3	0.060U
1,3,5-Trimethylbenzene, mg/m3	0.060U
Vinyl chloride, mg/m3	0.060U
o-Xylene, mg/m3	0.060U
m&p-Xylene, mg/m3	0.12U
Surrogate - 1,2-Dichloroethane-d4	99 %
Surrogate - Toluene-d8	98 %
Surrogate - 4-Bromofluorobenzene	96 %
Dilution Factor	1

SEVERN TRENT SERVICES

STL Pensacola

LOG NO: C2-07404
Received: 18 JUL 02
Reported: 30 JUL 02

Ms. Tatiana Romanova
CH2M Hill Constructors, Inc. (CCI)
115 Perimeter Center Place, NE Suite 700
Atlanta, GA 30346

Client PO. No.: 2916

Contract No.: CT0-0062
Project: CTO-0062, 103RD STREET MONTHLY AIR
Sampled By: Client
Code: 110120730

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , AIR SAMPLES	DATE/ TIME SAMPLED
07404-1	062-SVE-E-A-0715-02-26	07-15-02/14:30

PARAMETER	07404-1
Prep Date	07.22.02
Prep Time	12:19
Analysis Date	07.22.02
Analysis Time	12:32
Batch ID	MAA126
Prep Method	MOD-TO14
Analyst	BDH

SEVERN TRENT SERVICES

STL Pensacola

LOG NO: C2-07404
Received: 18 JUL 02
Reported: 30 JUL 02

Ms. Tatiana Romanova
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115 Perimeter Center Place, NE Suite 700
Atlanta, GA 30346

Client PO. No.: 2916

Contract No.: CT0-0062
Project: CTO-0062, 103RD STREET MONTHLY AIR
Sampled By: Client
Code: 110120730

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR AIR SAMPLES	DATE/ TIME SAMPLED
07404-2	Method Blank	
07404-3	Lab Control Standard True Value	
07404-4	Lab Control Standard Result	
07404-5	Lab Control Standard % Recovery	
07404-6	LCS Accuracy Control Limit (%R)	

PARAMETER	07404-2	07404-3	07404-4	07404-5	07404-6
Volatile Organic Compounds in Air (MOD-TO14)					
Benzene, mg/m3	0.030U	0.5000	0.5157	103 %	87-116
Bromodichloromethane, mg/m3	0.030U	---	---	---	---
Bromoform, mg/m3	0.030U	---	---	---	---
Bromomethane (Methyl bromide), mg/m3	0.030U	---	---	---	---
Carbon disulfide, mg/m3	0.030U	---	---	---	---
Carbon tetrachloride, mg/m3	0.030U	---	---	---	---
Chlorobenzene, mg/m3	0.030U	0.5000	0.5037	101 %	88-111
Chloroethane, mg/m3	0.030U	---	---	---	---
Chloroform, mg/m3	0.030U	---	---	---	---
Chloromethane (Methyl chloride), mg/m3	0.030U	---	---	---	---
2-Chlorotoluene, mg/m3	0.030U	---	---	---	---
Dibromochloromethane, mg/m3	0.030U	---	---	---	---
1,2-Dibromoethane (EDB), mg/m3	0.030U	---	---	---	---
1,2-Dichlorobenzene, mg/m3	0.030U	---	---	---	---
1,3-Dichlorobenzene, mg/m3	0.030U	---	---	---	---
1,4-Dichlorobenzene, mg/m3	0.030U	---	---	---	---
trans-1,4-Dichloro-2-butene , mg/m3	0.030U	---	---	---	---

SEVERN TRENT SERVICES

STL Pensacola
LOG NO: C2-07404
Received: 18 JUL 02
Reported: 30 JUL 02

Ms. Tatiana Romanova
CH2M Hill Constructors, Inc. (CCI)
115 Perimeter Center Place, NE Suite 700
Atlanta, GA 30346

Client PO. No.: 2916

Contract No.: CT0-0062
Project: CTO-0062, 103RD STREET MONTHLY AIR
Sampled By: Client
Code: 110120730

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR AIR SAMPLES	DATE/ TIME SAMPLED
07404-2	Method Blank	
07404-3	Lab Control Standard True Value	
07404-4	Lab Control Standard Result	
07404-5	Lab Control Standard % Recovery	
07404-6	LCS Accuracy Control Limit (%R)	

PARAMETER	07404-2	07404-3	07404-4	07404-5	07404-6
Dichlorodifluoromethane, mg/m3	0.030U	---	---	---	---
1,1-Dichloroethane, mg/m3	0.030U	---	---	---	---
1,2-Dichloroethane, mg/m3	0.030U	---	---	---	---
1,1-Dichloroethene, mg/m3	0.030U	0.5000	0.5307	106 %	58-138
cis-1,2-Dichloroethene, mg/m3	0.030U	---	---	---	---
trans-1,2-Dichloroethene, mg/m3	0.030U	---	---	---	---
1,2-Dichloropropane, mg/m3	0.030U	---	---	---	---
cis-1,3-Dichloropropene, mg/m3	0.030U	---	---	---	---
trans-1,3-Dichloropropene, mg/m3	0.030U	---	---	---	---
Dichlorotetrafluoroethane, mg/m3	0.030U	---	---	---	---
Ethylbenzene, mg/m3	0.030U	---	---	---	---
Hexane, mg/m3	0.030U	---	---	---	---
4-Ethyltoluene, mg/m3	0.030U	---	---	---	---
Methylene chloride (Dichloromethane), mg/m3	0.030U	---	---	---	---
Methyl t-butyl ether (MTBE), mg/m3	0.030U	---	---	---	---
Styrene, mg/m3	0.030U	---	---	---	---
1,1,2,2-Tetrachloroethane, mg/m3	0.030U	---	---	---	---
Tetrachloroethene, mg/m3	0.030U	---	---	---	---
Toluene, mg/m3	0.030U	0.5000	0.4997	100 %	86-113
1,2,4-Trichlorobenzene, mg/m3	0.030U	---	---	---	---

SEVERN TRENT SERVICES

STL Pensacola

LOG NO: C2-07404
Received: 18 JUL 02
Reported: 30 JUL 02

Ms. Tatiana Romanova
CH2M Hill Constructors, Inc. (CCI)
115 Perimeter Center Place, NE Suite 700
Atlanta, GA 30346

Client PO. No.: 2916

Contract No.: CT0-0062
Project: CTO-0062, 103RD STREET MONTHLY AIR
Sampled By: Client
Code: 110120730

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR AIR SAMPLES	DATE/ TIME SAMPLED
07404-2	Method Blank	
07404-3	Lab Control Standard True Value	
07404-4	Lab Control Standard Result	
07404-5	Lab Control Standard % Recovery	
07404-6	LCS Accuracy Control Limit (%R)	

PARAMETER	07404-2	07404-3	07404-4	07404-5	07404-6
1,1,1-Trichloroethane, mg/m3	0.030U	---	---	---	---
1,1,2-Trichloroethane, mg/m3	0.030U	---	---	---	---
Trichloroethene, mg/m3	0.030U	0.5000	0.5222	104 %	85-116
Trichlorofluoromethane, mg/m3	0.030U	---	---	---	---
1,1,2-Trichloro-1,2,2-trifl uoroethane, mg/m3	0.030U	---	---	---	---
1,2,4-Trimethylbenzene, mg/m3	0.030U	---	---	---	---
1,3,5-Trimethylbenzene, mg/m3	0.030U	---	---	---	---
Vinyl chloride, mg/m3	0.030U	---	---	---	---
o-Xylene, mg/m3	0.030U	---	---	---	---
m&p-Xylene, mg/m3	0.060U	---	---	---	---
Surrogate - 1,2-Dichloroethane-d4	101 %	0.5000	0.4902	98 %	61-140
Surrogate - Toluene-d8	98 %	0.5000	0.4954	99 %	90-109
Surrogate - 4-Bromofluorobenzene	99 %	0.5000	0.4845	97 %	87-112
Dilution Factor	1	---	1	---	---
Prep Date	07.22.02	---	07.22.02	---	---
Prep Time	10:36	---	11:10	---	---
Analysis Date	07.22.02	---	07.22.02	---	---
Analysis Time	10:49	---	11:23	---	---
Batch ID	MAA126	MAA126	MAA126	MAA126	MAA126
Prep Method	MOD-TO14	---	MOD-TO14	---	---
Analyst	BDH	---	BDH	---	---

SEVERN TRENT SERVICES

STL Pensacola

LOG NO: C2-07404
Received: 18 JUL 02
Reported: 30 JUL 02

Ms. Tatiana Romanova
CH2M Hill Constructors, Inc. (CCI)
115 Perimeter Center Place, NE Suite 700
Atlanta, GA 30346

Client PO. No.: 2916

Contract No.: CT0-0062
Project: CTO-0062, 103RD STREET MONTHLY AIR
Sampled By: Client
Code: 110120730

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR AIR SAMPLES	DATE/ TIME SAMPLED
07404-2	Method Blank	
07404-3	Lab Control Standard True Value	
07404-4	Lab Control Standard Result	
07404-5	Lab Control Standard % Recovery	
07404-6	LCS Accuracy Control Limit (%R)	

PARAMETER	07404-2	07404-3	07404-4	07404-5	07404-6

These test results meet all the requirements of NELAC. All questions regarding this test report should be directed to the STL Project Manager who signed this test report.
Data from any samples that do not meet client, federal, or state sample acceptance criteria (collection, preservation, or holding time) will be flagged, or noted on a corrective action form or case narrative, or addressed on the Project Sample Inspection Form (PSIF).
A statement of the estimated uncertainty of the test result is available upon request.

Rick Hayes, Project Manager

Final Page Of Report

STL Pensacola
PROJECT SAMPLE INSPECTION FORM

SEVERN TRENT SERVICES

Lab Order #: C207404 Date Received: 18-Jul-02

1. Was there a Chain of Custody? **Yes** No*
2. Was Chain of Custody properly filled out and relinquished? **Yes** No*
3. Were samples received cold? (Criteria: 2° - 6°C: STL-SOP) Yes No* **N/A**
4. Were all samples properly labeled and identified? **Yes** No*
5. Did samples require splitting or compositing◆? Yes* **No**
   Req By: PM Client Other◆
6. Were samples received in proper containers for analysis requested? **Yes** No*
7. Were all sample containers received intact? **Yes** No*
8. Were samples checked for preservative? *(Check pH of all H_2O requiring preservative (STL-PN SOP 917) except VOA vials that require zero headspace)*• Yes No* **N/A**
9. Is there sufficient volume for analysis requested? Yes No* **N/A (Can)**
10. Were samples received within Holding Time? (REFER TO STL-SOP 1040) **Yes** No*
11. Is Headspace visible > ¼" in diameter in VOA vials?★ If any headspace is evident, comment in out-of-control section. Yes* No **N/A**
12. If sent, were matrix spike bottles returned? Yes No* **N/A**
13. Was Project Manager notified of problems? (initials:_____) Yes No* **N/A**

Airbill Number(s): 7920 6964 4215

Shipped By: FEDEX

Cooler Number(s): Air Cans

Shipping Charges: N/A

Cooler Weight(s): N/A

Cooler Temp(s) (°C): N/A

(LIST THERMOMETER NUMBER(S) FOR VERIFICATION)

Out of Control Events and Inspection Comments:

(USE BACK OF PSIF FOR ADDITIONAL NOTES AND COMMENTS)

Inspected By: pez Date: 7/18/02 Logged By: pez Date: 7/18/02

* *Note all Out-of-Control and/or questionable events on Comment Section of this form. For holding times, the analytical department will flag immediate hold time samples(pH, Dissolved O_2, Residual CL) as out of hold time, therefore, these samples will not be documented on this PSIF.*

◆ *If Other, note who requested the splitting or compositing of samples on the Comment Section of this form. All volatile samples requested to be split or composited must be done in the Volatile Lab. Document: "Volatile sample values may be compromised due to sample splitting (compositing)"*

• *All preservatives for the State of North Carolina, the State of New York, and other requested samples are to be recorded on the sheet provided to record pH results (STL-SOP 938, section 2.2.9).*

★ *According to EPA, ¼" of headspace is allowed in 40 ml vials requiring volatile analysis, however, STL makes it policy to record any headspace as out-of-control (STL-SOP 938, section 2.2.12).*

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

C207 404

CHAIN-OF-CUSTODY RECORD

COC NUMBER
163151-055

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	163151	STL - Pensacola Rick Hayes	Bill Canelos J.A Jones Env. Services	6219 Authority Road, Jacksonville, FL 32221 PH: (904) 7774812 FAX: (904) 7774262
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	0062	2916	Christelle Newsome / 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.)
Bill Canelos	Ph:(904)777-4812 Fax:(904) 777-4262	Ph: (850) 474-1001 Fax: (850) 4782671		

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 TO-14										SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	062-SVE-E-A-0715-02-26	SVE Effluent	AIR	07/15/02	14:30	III/C	14 Day	1										Grab	Summa Canister	1
2																				
3																				
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 / Sean Smith J.A. Jones Environmental Services	Federal Express TRK # 792069644215.	

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature			Printed Name and Signature		
Randy Dumaop	7/16/02	11:00	Federal Express	7/16/02	11:00
Printed Name and Signature			Printed Name and Signature		
			R-ELSPER mon/ Rob Edgar	7/18/02	0940
Printed Name and Signature			Printed Name and Signature		

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

Form CCI001, Rev 02/00

NAS Cecil Field, CTO-0062

STL Pensacola

From: Randy Dumaop (904)777-4812
CCI / J.A. JONES ENV. SERVICES
6219 Authority Ave

Jacksonville, FL, 32221

REVENUE BARCODE

C207404

FedEx.

To: Rick Hayes (850)474-1001
STL Pensacola
3355 McLemore Dr

Pensacola, FL, 32514

SHIP DATE: 15JUL02
WEIGHT: 16 LBS

184=103rd
DT=199

Ref: 163151/99.22.01.01/30857

DELIVERY ADDRESS BARCODE(FEDEX-EDR)

FedEx ** 2DAY **

TRK # 7920 6964 4215 FORM 0201

BFM

WED
AA

Deliver by:
17JUL02

32514-FL-US F3 PNSA

Shipping Label

Schedule Courier | Find a Dropoff Location | Shipping History

Shipment Complete | Cancel Shipment | Edit Shipment Information

1. Use the "Print" feature from your browser to send this page to your laser printer.
2. Fold the printed page along the horizontal line.
3. Place label in air waybill pouch and affix it to your shipment so that the barcode portion of the label can be read and s

Shipment Details

To print a copy of the shipment information for your records, please click "Shipment Details".

Shipment Details

Ship a New Package

Ship Inside U.S. | Ship Outside U.S. | Ship to Same Recipient

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Attach one file Label here

SAMPLE CHECK LIST
STL Pensacola

Paperwork by: ✓
Labeled by: ✓
Delivered by: ✓

CH2M-CONST-GA C207404
CH2M Hill Constructors, Inc. (CCI)

Type of Container	Wet Chem	Metals	Extractions	Organics/ Special Projects	VOA	GCMS	Preservative	Number of Containers	Initials	Date	Time
1/2 Gal Plastic											
32 oz. Plastic											
16 oz. Plastic											
8 oz. Plastic											
5g Encore											
25g Encore											
Whirlpak Bag											
Sterile Cup											
1L Amber											
500 ml Amber											
250 ml Amber											
120 ml Amber											
40 ml Vial											
2 oz. W/M											
4 oz. W/M											
8 oz. W/M											
16 oz. W/M											
32 oz. W/M											
Air Canister						✓	Ø	1			
Air Bag											
Tube/Cartridge											
Plastic Bag											
Acknowledgment											
COMMENTS											

Explanation of CLP Data Qualifiers
Organics

U: This flag indicates the compound was analyzed for but not detected. The CRQL shall be adjusted according to the equation listed in Exhibit D. CRQLs are listed in Exhibit C.

J: This flag indicates an estimated value. This flag is used (1) when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, (2) when the mass spectral and retention time data indicate the presence of a compound that meets the volatile and semivolatile GC/MS identification criteria, and the result is less than the CRQL but greater than zero, and (3) when the retention time data indicate the presence of a compound that meets the pesticide/Aroclor identification criteria, and the result is less than the CRQL but greater than zero. For example, if the sample quantitation limit is 10 µg/L, but a concentration of 3 µg/L is calculated, report it as 3J.
NOTE: The J flag is not used and the compound is not reported as being identified for Pesticide/Aroclor results less than the CRQL if the pesticide residue analysis expert determines that the peaks used for compound identification resulted from instrument noise or other interferences (column bleed, solvent contamination, etc.).

N: This flag indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It is applied to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the N flag is not used.

P: This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns (see Form X). **The lower of the two values is reported on Form I and flagged with a P.**

C: This flag applies to pesticide results where the **identification** has been confirmed by GC/MS. If GC/MS confirmation was attempted but was unsuccessful, do **not** apply this flag; use a laboratory-defined flag instead (see the X qualifier).

B: This flag is used when the analyte is found in the associated method blank as well as in the sample. It indicates probable blank contamination and warns the data user to take appropriate action. This flag shall be used for a tentatively identified compound as well as for a positively identified target compound. The combination of flags BU or UB is expressly prohibited. Blank contaminants are flagged B only when they are detected in the sample.

E: This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis. If one or more compounds have a response greater than the upper level of the calibration range, the sample or extract shall be diluted and reanalyzed according to the specifications in Exhibit D; exceptions are also noted in Exhibit D. All such compounds with a response greater than the upper level of the calibration range shall have the concentration flagged with an E on Form I for the original analysis.
NOTE: For total xylene, where three isomers are quantified as two peaks, the calibration range of **each peak** shall be considered separately. For example, a diluted analysis is **not** required for total xylene unless the concentration of the peak representing the single isomer exceeds 200 µg/L or the peak representing the two co-eluting isomers on that GC column exceeds 400 µg/L.

D: If a sample or extract is reanalyzed at a higher dilution factor, for example when the concentration of an analyte exceeds the upper calibration range, the DL suffix is appended to the sample number on Form I for the more diluted sample, and **all** reported concentrations on that Form I are flagged with the D flag. This flag alerts data users that any discrepancies between the reported concentrations may be due to dilution of the sample or extract. NOTE 1: The D flag is not applied to compounds which are not detected in the sample analysis (i.e., compounds reported with the CRQL and the U flag). NOTE 2: Separate Form Is are required for reporting the original analysis (EPA Sample No. XXXXX) and the more diluted sample analysis (EPA Sample No. XXXXXDL) (i.e., the results from both analyses cannot be combined on a single Form I).

A: This flag indicates that a tentatively identified compound is a suspected aldol-condensation product.

X: Other specific flags may be required to properly define the results. If used, the flags shall be fully described, with the description attached to the sample data summary package and the SDG Narrative. Begin by using X. If more than one flag is required, use Y and Z as needed. If more than five qualifiers are required for a sample result, use the X flag to represent a combination of several flags. For instance,
the X flag might combine the A, B, and D flags for some samples. The laboratory-defined flags **are limited to** X, Y, and Z.

Explanation of CLP Data Qualifiers
Inorganic

C - Concentration Qualifier

U - The analyte was analyzed for but not detected (at or above the RL or the MDL, whichever is entered next to the "U" value).

B - The reported value is less than the STL Pensacola Reporting Limit (RL) or client-requested reporting limit (RL) but greater than or equal to the STL Pensacola Method Detection Limit (MDL).

Q - QC Qualifier

E - The reported value is estimated because of the presence of interference. An explanatory note shall be included in the case narrative.

N - The spiked sample recovery is not within control limits.

* - Duplicate analysis not within control limits

M - The duplicate injection precision was not met.

S - The reported value was determined by the Method of Standard Addition (MSA).

W - Post-digestion spike for Furnace AA analysis is out of control limits (85-115%), while sample absorbance is less than 50% of spike absorbance and post spike recovery is greater than or equal to 40%, the sample is flagged with a "W" and no further action is required.

+ - The Standard Additions Correlation Coefficient is <0.995.

NOTE: Entering "S," "W," or "+" is mutually exclusive. No combination of these qualifiers can appear in the same field for an analyte.

M - Method Qualifier

P - ICP
F - Furnace AA
CV - Cold Vapor AA (mercury)
AV - Automated Cold Vapor AA (mercury)

Revised 5/10/01

STL Pensacola Data Qualifiers for Final Report

B	The analyte was detected in the associated method blank and in the client's sample.
C	The compound has been quantitated against a one point calibration.
D	Recovery is not calculable due to dilution.
E	Estimated value because the analyte concentration exceeds the upper calibration range of the instrument or method.
I	Estimated value because the analyte concentration is less than the lower calibration range of the instrument but is at the method detection limit or greater than the method detection limit.
H	Sample and/or duplicate is below 5 X (times) the STL Reporting Limit and the absolute difference between the results exceeds the STL Reporting Limit.
J1	A sample surrogate or an LCS target compound recovered above the upper control limit (UCL). Compounds qualified with a J1 may be biased high.
J2	A sample surrogate or an LCS target compound recovered outside the lower control limit (LCL). Compounds qualified with a J2 may be biased low.
M1	A matrix effect was present.
M2	The MS and/or MSD %R or RPD was outside upper or lower control limits; not necessarily due to matrix effect.
N/C	Not Calculable; Sample spiked is > 4X spike concentration (may also use this flag in place of negative numbers).
R1	Internal standard area exceeds the acceptance criteria
R2	Calibration verification exceeds the acceptance criteria.
S1	The Method of Standard Additions (MSA) has been performed on this sample.
T	Second-column or detector confirmation exceeded the SW-846 criteria of 40% RPD for this compound.
TIC	The compound is not included in the initial calibration curve. It is searched for qualitatively or as a Tentatively Identified Compound.
U	The analyte was not detected at or above the MDL or the RL, whichever is entered next to the "U" value.
W	Post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is less than 50% spike absorbance.

When the laboratory receives a sample that does not meet EPA requirements for sample collection, preservation or holding time, the laboratory is required to reject the samples. The client must be notified and asked whether the lab should proceed with analysis. Data from any samples that do not meet sample acceptance criteria (collection, preservation and holding time), must be flagged, or noted on a corrective action form or case narrative, or addressed on the Project Sample Inspection Form (PSIF) in an unambiguous manner clearly defining the nature and substance of the variation. NPDES samples from North Carolina that do not meet EPA requirements for sample collection, preservation or holding time are non-reportable for NPDES compliance monitoring.

Abbreviations

ND	Not Detected at or above the STL Pensacola reporting limit (RL)
NS	Not Submitted
NA	Not Applicable
MDL	STL Pensacola Method Detection Limit
RL	STL Pensacola Reporting Limit
NoMS	Not enough sample provided to prepare and/or analyze a method-required matrix spike (MS) and/or duplicate (MSD)

Florida Projects Inorganic/Organic

Refer to FL DEP 62-160.700(7); Table 7 Data Qualifier Codes. FL DEP Rule 62-160.670(1)(h) states that laboratories shall include the analytical result for each analysis with applicable data qualifiers. FL DEP Rule 62-160.700(7), Table 7 lists the FL DEP data qualifiers. FL DEP Rule 62-160.700(3), Table 3 lists the Florida sites which require data qualifiers.

AFCEE QAPP Projects

Refer to AFCEE QAPP for appropriate data qualifiers (AFCEE QAPP Version will be specified by client for the project).

Arizona DEQ Projects

Any qualified data submitted to Arizona DEQ (ADEQ) after January 1, 2001 must be designated using the Arizona Data Qualifiers as developed by the Arizona ELAC technical subcommittee. Refer to the ADEQ qualifier list.

CLP and CLP-like Projects

Refer to referenced CLP Statement of Work (SOW) for explanation of data qualifiers. CLP SOW to be followed must be specified to client.

STL PENSACOLA
Certifications, Memberships & Affiliations

Alabama *Department of Environmental Management, Laboratory ID No. 40150 (Drinking Water by Reciprocity with FL), expires 06/30/02*

Arizona *Department of Health Services, Lab ID No. AZ0589 (Hazardous Waste & Wastewater), expires 01/11/03*

Arkansas *Department of Pollution Control and Ecology, (No Laboratory ID No. assigned by state) (Environmental), expires 02/20/03*

California *Department of Health Services,* ***NELAP*** *Laboratory ID No. 01128CA (Hazardous Waste and Wastewater), expires 03/31/02*

Connecticut *Department of Health Services, Connecticut Lab Approval No. PH-0697 (D W, H W and Wastewater), expires 09/30/03*

Florida *DOH,* ***NELAP*** *Laboratory ID No. E81010 (Drinking Water, Hazardous Waste and Wastewater), expires 06/30/03*

Florida *DEP/DOH CompQAP # 980156*

Kansas *Department of Health & Environment,* ***NELAP*** *Laboratory ID No. E10253 (Wastewater and Hazardous Waste), expires 10/31/02*

Kentucky *NR&EPC, Laboratory ID No. 90043 (Drinking Water), expires 12/31/02.*

Louisiana *DEQ, LELAP,* ***NELAP*** *Laboratory ID No. 02075, Agency Interest ID 30748 (Environmental, expires 6/30/03)*

Maryland *DH&MH Laboratory ID No. 233 (Drinking Water by Reciprocity with Florida), expires 09/30/02*

Massachusetts *DEP, Laboratory ID No. M-FL094 (Wastewater), expires 06/30/03*

Michigan *Bureau of E&OccH, Laboratory ID No.9912 (Drinking Water by Reciprocity with Florida), expires 06/30/02*

New Hampshire *DES ELAP,* ***NELAP*** *Laboratory ID No. 250501 (Wastewater), expires 08/16/02*

New Jersey *DEP&E,* ***NELAP*** *Laboratory ID No. FL006 (Wastewater and Hazardous Waster), expires 06/30/03.*

New York State *Department of Health,* ***NELAP*** *Laboratory ID No. 11503 (WW and Solids/Hazardous Waste), expires 04/01/2003*

North Carolina *DENR, Laboratory ID No. 314 (Hazardous Waste and Wastewater), expires 12/31/02.*

North Dakota *DH&Consol Labs, Laboratory ID No. R-108 Wastewater and Hazardous Waste by Reciprocity with Florida), expires 06/30/02*

Oklahoma *Department of Environmental Quality, Laboratory ID No. 9810 (Hazardous Waste and Wastewater), expires 08/31/02*

Pennsylvania *Department of Environmental Resources,* ***NELAP*** *Laboratory ID No. 68-467 (Drinking Water & Wastewater), expires 12/01/02*

South Carolina *DH&EC, Laboratory ID No. 96026 (Wastewater & Solids/Hazardous Waste by Reciprocity with FL), expires 06/30/02*

Tennessee *Department of Health & Environment, Laboratory ID No. 02907 (Drinking Water), expires 08/03/04*

Virginia *Department of General Services, Laboratory ID No. 00008 (Drinking Water by Reciprocity with FL), expires 06/30/03.*

Washington *Department of Ecology, Laboratory ID No. C282 (Hazardous Waste and Wastewater), expires 09/14/02.*

West Virginia *DOE, Office of Water Resources, Laboratory ID No. 136 (Haz Waste and Wastewater), expires 04/30/02.*

*American Industrial Hygiene Association (**AIHA**) Accredited Laboratory, Laboratory ID No. 100704, expires April 1, 2004. Participant in AIHA sponsored Laboratory PAT Rounds*

EPA ICR *(Information Collection Rule) Approved Laboratory, Laboratory ID No. ICRFL031*

*Naval Facilities Engineering Services Center (**NFESC**), expires July 5, 2002.*

*United States Army Corps. of Engineers (**USACE**), MRD, expires January 5, 2003.*

STL Pensacola also has a foreign soil permit to accept soils from locations other than the continental United States Permit No. S-37599

certlist condcert lst revised 07/24/02

AIR VOLATILE CASE NARRATIVE

LABORATORY NAME: STL PENSACOLA
CASE NUMBER: NA
SDG#: 207404
PROJECT NAME: N.A.S. Cecil Field, 103rd Street

RECEIVED July 18, 2002

CLIENT ID#	STL ID #	STL SAMPLE NAME IN PACKAGE
062-SVE-E-A-0715-02-26	207404-1	SVEEA

The sample was received in good condition. No MS/MSD was analyzed due to matrix type. Due to software limitations there are no Form I's.

Larry Dilmore
GC/MS SUPERVISOR
July 29, 2002

2A

AIR VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name : STL PENSACOLA Contract : NA
Project : NA Site : NA Location : NA Group : NA
Lab File ID (Standard): CM0722A.D Date Analyzed : 22 Jul 2002
Instrument ID : MARILYN Time Analyzed : 9:57 am
GC Column : CAP ID : MARI Heated Purge (Y:N) : N
Level :

File	Sample	SMC1 #	SMC2 #	SMC3 #	SMC4 #	SMC5 #	SMC6 #	TOTAL OUT
74041	062SVEEA0715022	99	98	96	0	0	0	0
MA126ABK	VBLKMA\ DAILY M	101	98	99	0	0	0	0
MA126LCS	VLCSMA\ BATCH #	98	99	97	0	0	0	0

		QC Limits
SMC1	= 1,2-Dichloroethane d4 SURR#1	(61 -140)
SMC2	= Toluene-d8 SURR#2	(90 -109)
SMC3	= 4-Bromofluorobenzene SURR#3	(87 -112)
SMC4	=	(0 -0)
SMC5	=	(0 -0)
SMC6	=	(0 -0)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

TO-14 NG-MG/M3 CONVERSION		Sample #	3	4	5	6
order #	207404					
Batch	MAA126	Actual	mg/m3	mg/m3		
		ng result	TRUE	RESULT	% REC	rec limit
Benzene		257.84	0.5000	0.5157	103%	87-116%
Chlorobenzene		251.85	0.5000	0.5037	101%	88-111%
1,1-Dichloroethene		265.34	0.5000	0.5307	106%	58-138%
Toluene		249.83	0.5000	0.4997	100%	86-113%
Trichloroethene		261.08	0.5000	0.5222	104%	85-116%
1,2-Dichloroethane-d4		245.1	0.5000	0.4902	98%	61-140%
Toluene-d8		247.68	0.5000	0.4954	99%	90-109%
4-Bromofluorobenzene		242.27	0.5000	0.4845	97%	87-112%

LCS Blank Summary Report

Data File : D:\HPCHEM\1\DATA\MARILYN\2M0722A\MA126LCS.D Vial: 16
Acq On : 22 Jul 2002 11:23 am Operator: BDH
Sample : VLCSMA\ BATCH #126 LCS 50ppb/250ng Inst : MARILYN
Misc : Pi/Pf=1 MA126ABK 2nd SOURCE Multiplr: 1.00
MS Integration Params: rteint.p
Matrix : WATER

Method : D:\HPCHEM\1\METHODS\MARILYN\CRV070902 TO14\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Jul 29 14:34:51 2002
Response via : Multiple Level Calibration

		Compound Name	Conc	Added	Recv(%)	QC Range	Q
10)	MC	1,1-Dichloroethene	265.34	250.00	106.14	58 to 138%	[ ]
27)	M	Benzene	257.84	250.00	103.14	87 to 116%	[ ]
28)	M	Trichloroethene	261.08	250.00	104.43	85 to 116%	[ ]
33)	MC	Toluene	249.83	250.00	99.93	86 to 113%	[ ]
39)	MP	Chlorobenzene	251.85	250.00	100.74	88 to 111%	[ ]

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKMA

Lab Name: STL PENSACOLA Contract: N/A

Lab Code: STL PN Case No.: N/A SAS No.: N/A SDG No.: C207404

Lab File ID: MA126ABK.D Lab Sample ID: VBLKMA\ DAILY M

Date Analyzed: 7/22/02 Time Analyzed: 10:49

GC Column: CAP ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: MARILYN

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS AND 2ND	VLCSMA\ BATCH #126 L	MA126LCS.D	11:23
02	SVEEA	062SVEEA07150226\ 07	74041.D	12:32

COMMENTS

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL PENSACOLA Contract: N/A

Lab Code: STL PN Case No.: N/A SAS No.: N/A SDG No.: C207404

Lab File ID: BFM0709A.D BFB Injection Date: 7/9/02

Instrument ID: MARILYN BFB Injection Time: 10:51

GC Column: CAP ID: 0.53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	15.5
75	30.0 - 66.0% of mass 95	39.5
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	80.2
175	4.0 - 9.0% of mass 174	6.3 (7.8)1
176	93.0 - 101.0% of mass 174	78.7 (98.1)1
177	5.0 - 9.0% of mass 176	5.5 (6.9)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	VSTD0025	25NG/1UL/5PPB INITIAL	CMA0025.D	7/9/02	12:19
02	VSTD0250	250NG/10UL/50PPB INITI	CMA0250.D	7/9/02	13:34
03	VSTD0500	500NG/20UL/100PPB INI	CMA0500.D	7/9/02	14:10
04	VSTD1000	1000NG/40UL/200PPB IN	CMA1000.D	7/9/02	15:12
05	VSTD1500	1500NG/60UL/300PPB IN	CMA1500.D	7/9/02	16:12
06	VSTD0100	100NG/4UL/20PPB INITI	CMA0100R.D	7/9/02	17:10

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL PENSACOLA Contract: N/A

Lab Code: STL PN Case No.: N/A SAS No.: N/A SDG No.: C207404

Lab File ID: BFM0722A.D BFB Injection Date: 7/22/02

Instrument ID: MARILYN BFB Injection Time: 8:58

GC Column: CAP ID: 0.53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	16.0	
75	30.0 - 66.0% of mass 95	39.4	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	7.2	
173	Less than 2.0% of mass 174	0.0	(0.0)1
174	50.0 - 120.0% of mass 95	87.4	
175	4.0 - 9.0% of mass 174	6.5	(7.5)1
176	93.0 - 101.0% of mass 174	83.4	(95.4)1
177	5.0 - 9.0% of mass 176	5.8	(6.9)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	VSTD0250MA	VSTD050\ DAILY CALIBR	CM0722A.D	7/22/02	9:57
02	VBLKMA	VBLKMA\ DAILY METHO	MA126ABK.D	7/22/02	10:49
03	LCS AND 2ND	VLCSMA\ BATCH #126 L	MA126LCS.D	7/22/02	11:23
04	SVEEA	062SVEEA07150226\ 07	74041.D	7/22/02	12:32

Response Factor Report MARILYN

Method : D:\HPCHEM\1\METHODS\MARILYN\CRV070902 TO14\TO14S.M (RTE Inte
Title : TO14
Last Update : Mon Jul 29 14:17:31 2002
Response via : Initial Calibration

Calibration Files
25 =CMA0025.D 250 =CMA0250.D 1500 =CMA1500.D
1000 =CMA1000.D 100 =CMA0100R.D 500 =CMA0500.D

		Compound	25	250	1500	1000	100	500	Avg	%RSD
1)	I	Bromochloromethane IS	----------ISTD----------							
2)		Dichlorodifluoromet	0.814	0.986	0.748	0.801	0.784	0.892	0.838	10.37
3)		Dichlorotetrafluoro	1.012	1.010	0.782	0.878	1.064	1.052	0.966	11.60
4)	P	Chloromethane	0.536	0.600	0.550	0.535	0.504	0.621	0.558	7.93
5)	C	Vinyl chloride	0.581	0.663	0.598	0.607	0.572	0.623	0.607	5.38#
6)		Bromomethane	0.986	0.989	0.889	0.909	0.907	0.992	0.945	5.14
7)		Chloroethane	0.417	0.492	0.471	0.457	0.417	0.507	0.460	8.15
8)		Trichlorofluorometh	1.983	2.436	2.337	2.296	2.172	2.467	2.282	7.90
9)		1,1,2-Trichlorotrif	1.712	2.051	2.062	1.952	1.865	2.105	1.958	7.59
10)	MC	1,1-Dichloroethene	0.845	1.047	0.978	0.956	0.876	1.033	0.956	8.56#
11)		Iodomethane							0.000	-1.00
12)		Methylene chloride	1.048	1.310	1.264	1.240	1.180	1.326	1.228	8.33
13)		Carbon disulfide	2.337	2.858	2.673	2.624	2.544	2.841	2.646	7.36
14)		methyl-Tert-Butyl E	1.690	1.877	2.039	1.848	1.771	1.926	1.858	6.53
15)		trans-1,2-Dichloroe	0.950	1.181	1.184	1.122	1.069	1.191	1.116	8.40
16)		n-Hexane	0.850	1.006	1.051	0.997	1.015	1.079	1.000	7.94
17)	P	1,1-Dichloroethane	1.610	1.937	1.947	1.814	1.762	1.941	1.835	7.33
18)		cis-1,2-Dichloroeth	1.262	1.549	1.566	1.476	1.389	1.559	1.467	8.25
19)	C	Chloroform	1.968	2.393	2.380	2.248	2.127	2.375	2.249	7.65#
20)		Isooctane	2.762	3.469	3.625	3.523		3.750	3.426	11.27
21)		1,1,1-Trichloroetha	1.850	2.169	2.188	2.070	1.957	2.189	2.070	6.80
22)		Carbon tetrachlorid	1.917	2.345	2.346	2.200	2.134	2.364	2.218	7.85
23)	S	1,2-Dichloroethane	1.055	1.012	1.080	1.033	1.051	1.067	1.050	2.31
24)		1,2-Dichloroethane	0.963	1.176	1.237	1.150	1.049	1.196	1.129	9.10
25)		1,2-Dibromoethane	1.749	2.118	2.245	2.101	1.956	2.155	2.054	8.58
26)	I	1,4-Difluorobenzene I	----------ISTD----------							
27)	M	Benzene	0.583	0.689	0.659	0.649	0.633	0.689	0.650	6.11
28)	M	Trichloroethene	0.353	0.420	0.410	0.404	0.380	0.425	0.399	6.90
29)	C	1,2-Dichloropropane	0.234	0.300	0.291	0.285	0.271	0.299	0.280	8.91#
30)		Bromodichloromethan	0.586	0.695	0.681	0.670	0.636	0.702	0.662	6.66
31)		cis-1,3-Dichloropro	0.382	0.458	0.453	0.445	0.410	0.463	0.435	7.44
32)	S	Toluene-d8 SURR#2	0.774	0.775	0.764	0.768	0.769	0.774	0.771	0.55
33)	MC	Toluene	0.420	0.497	0.472	0.470	0.437	0.497	0.466	6.76#
34)		trans-1,3-Dichlorop	0.310	0.386	0.392	0.381	0.342	0.393	0.367	9.28
35)		1,1,2-Trichloroetha	0.263	0.302	0.304	0.296	0.280	0.305	0.292	5.69
36)	I	Chlorobenzene-d5 IS#3	----------ISTD----------							
37)		Tetrachloroethene	0.486	0.567	0.557	0.533	0.509	0.566	0.536	6.20
38)		Dibromochloromethan	0.614	0.699	0.720	0.681	0.641	0.710	0.678	6.15
39)	MP	Chlorobenzene	0.792	0.954	0.905	0.886	0.862	0.940	0.890	6.60
40)	C	Ethylbenzene	0.317	0.375	0.355	0.350	0.341	0.369	0.351	5.93#
41)		m,p-Xylene	0.408	0.493	0.460	0.460	0.449	0.491	0.460	6.75

L = Linear LO = Linear+Origin Q = Quad QO = Quad+Origin R = Corr. Coef
(#) = Out of Range ### Number of calibration levels exceeded format ###
TO14S.M Mon Jul 29 14:17:43 2002 Page 1

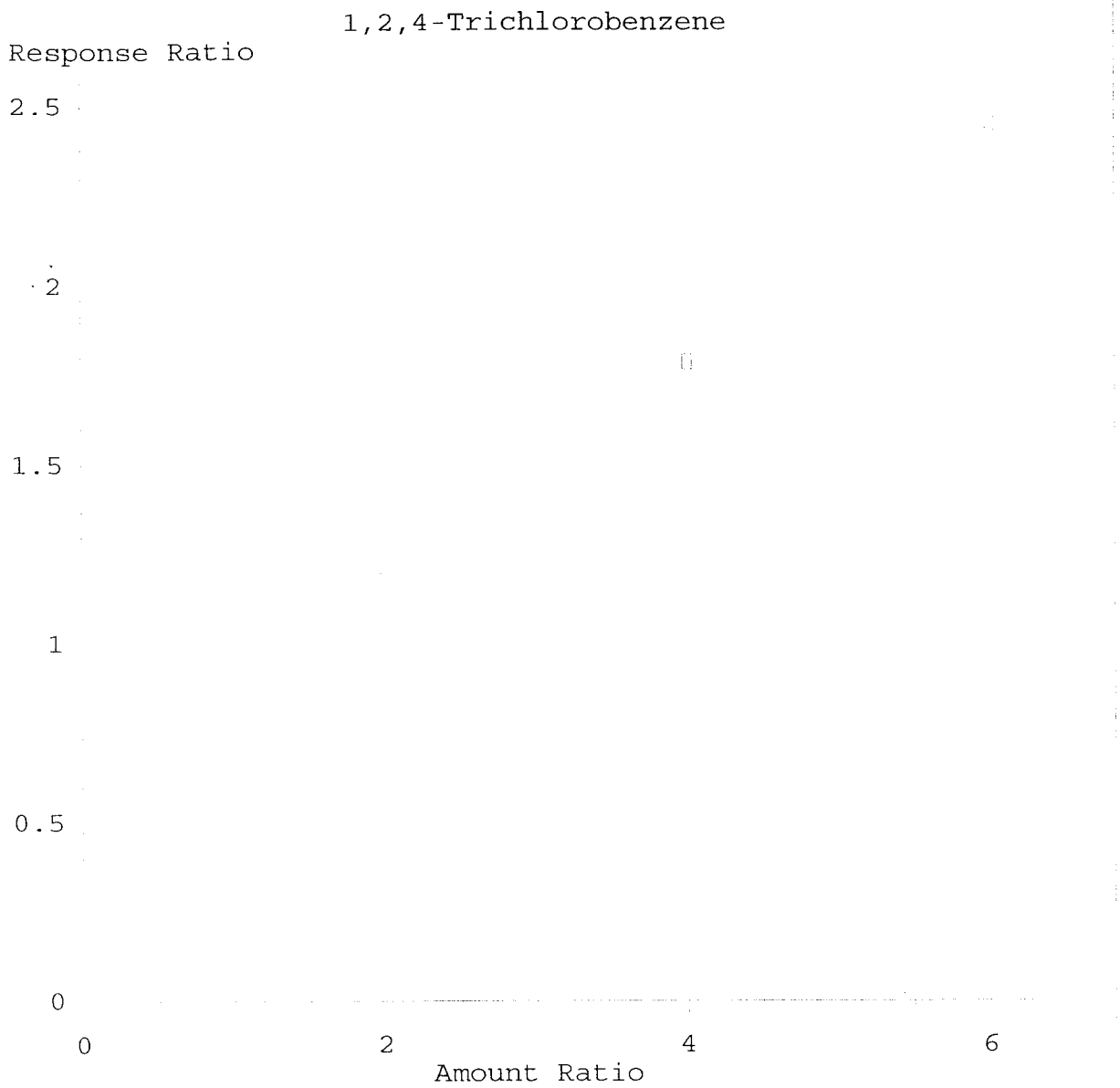
Response Factor Report MARILYN

Method : D:\HPCHEM\1\METHODS\MARILYN\CRV070902 TO14\TO14S.M (RTE Inte
Title : TO14
Last Update : Mon Jul 29 14:17:31 2002
Response via : Initial Calibration

Calibration Files
25 =CMA0025.D 250 =CMA0250.D 1500 =CMA1500.D
1000 =CMA1000.D 100 =CMA0100R.D 500 =CMA0500.D

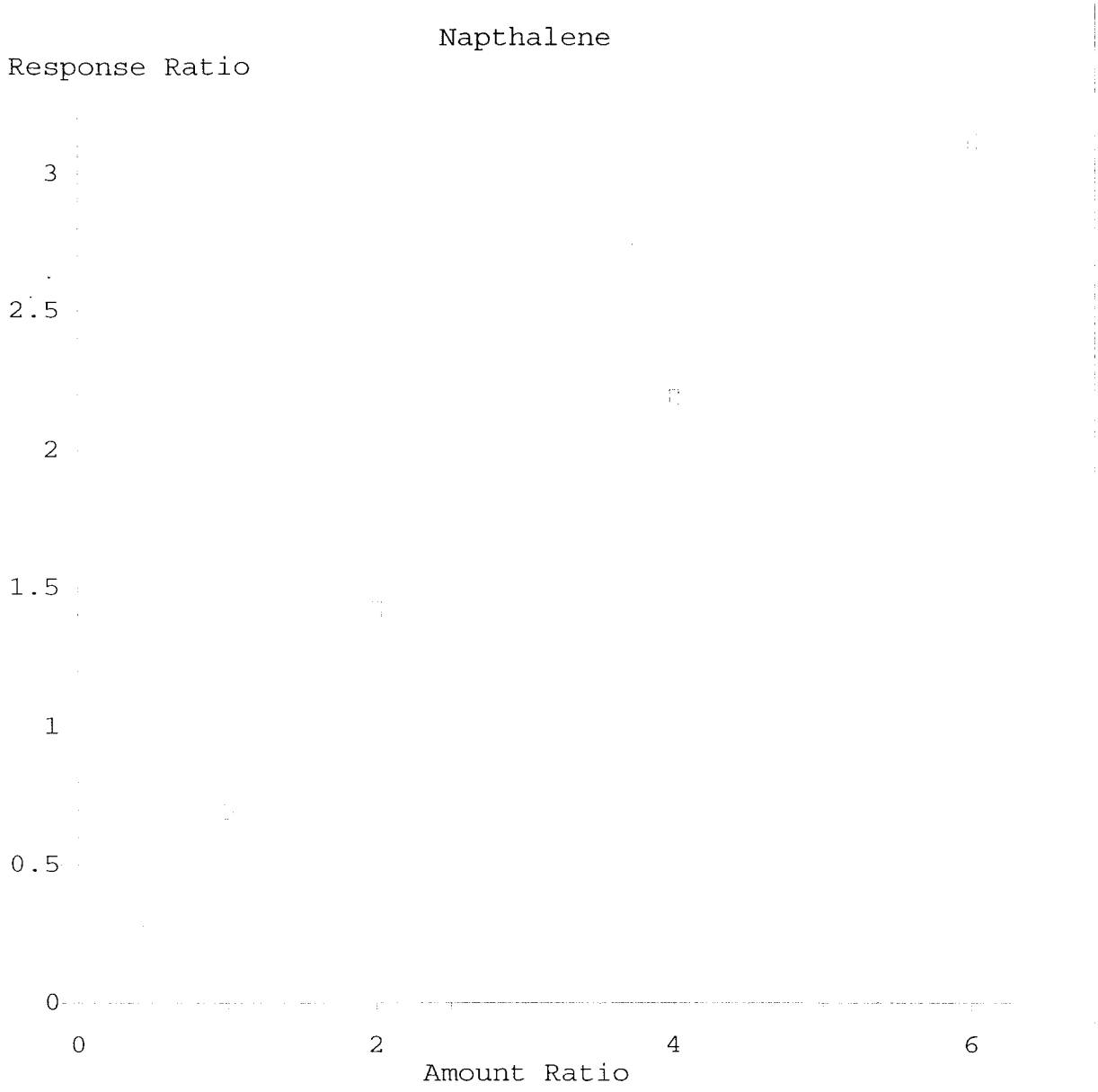
		Compound	25	250	1500	1000	100	500	Avg	%RSD
42)		o-Xylene	0.406	0.464	0.442	0.446	0.431	0.474	0.444	5.44
43)		Styrene	0.662	0.819	0.771	0.776	0.734	0.823	0.764	7.87
44)	P	Bromoform	0.678	0.764	0.771	0.749	0.715	0.795	0.745	5.66
45)	P	1,1,2,2-Tetrachloro	0.570	0.599	0.589	0.579	0.579	0.618	0.589	2.97
46)	S	4-Bromofluorobenzen	0.847	0.831	0.811	0.829	0.829	0.840	0.831	1.46
47)		1,4-Dichloro-2-bute	0.100	0.129	0.139	0.136	0.106	0.137	0.125	13.87
48)		4-Ethyltoluene	1.019	1.183	1.064	1.110	1.121	1.249	1.124	7.31
49)		1,3,5-Trimethylbenz	0.877	0.976	0.817	0.832	0.967	0.894	0.894	7.44
50)		2-Chlorotoluene	1.108	1.221	1.067	1.095	1.131	1.214	1.139	5.59
51)		1,2,4-Trimethylbenz	0.887	0.999	0.854	0.883	0.928	1.009	0.927	6.95
52)		1,3-Dichlorobenzene	0.756	0.868	0.731	0.757	0.778	0.877	0.794	7.85
53)		1,4-Dichlorobenzene	0.773	0.903	0.774	0.796	0.823	0.919	0.831	7.76
54)		1,2-Dichlorobenzene	0.689	0.835	0.663	0.686	0.754	0.826	0.742	10.10
55)		1,2,4-Trichlorobenz	0.621	0.586	0.408	0.447	0.540	0.589	-----	
							L	M= 0.400	R^2=0.980	
								B= 0.153		
56)		Napthalene	0.899	0.693	0.520	0.548	0.761	0.711	-----	
							L	M= 0.505	R^2=0.988	
								B= 0.170		
57)		Hexachlorobutadiene		0.516	0.261	0.286	0.481	0.465	-----	
							Q	A= -0.027	R^2=0.966	
								B= 0.397		
								C= 0.122		

L = Linear LO = Linear+Origin Q = Quad QO = Quad+Origin R = Corr. Coef
(#) = Out of Range ### Number of calibration levels exceeded format ###
TO14S.M Mon Jul 29 14:17:44 2002 Page 2



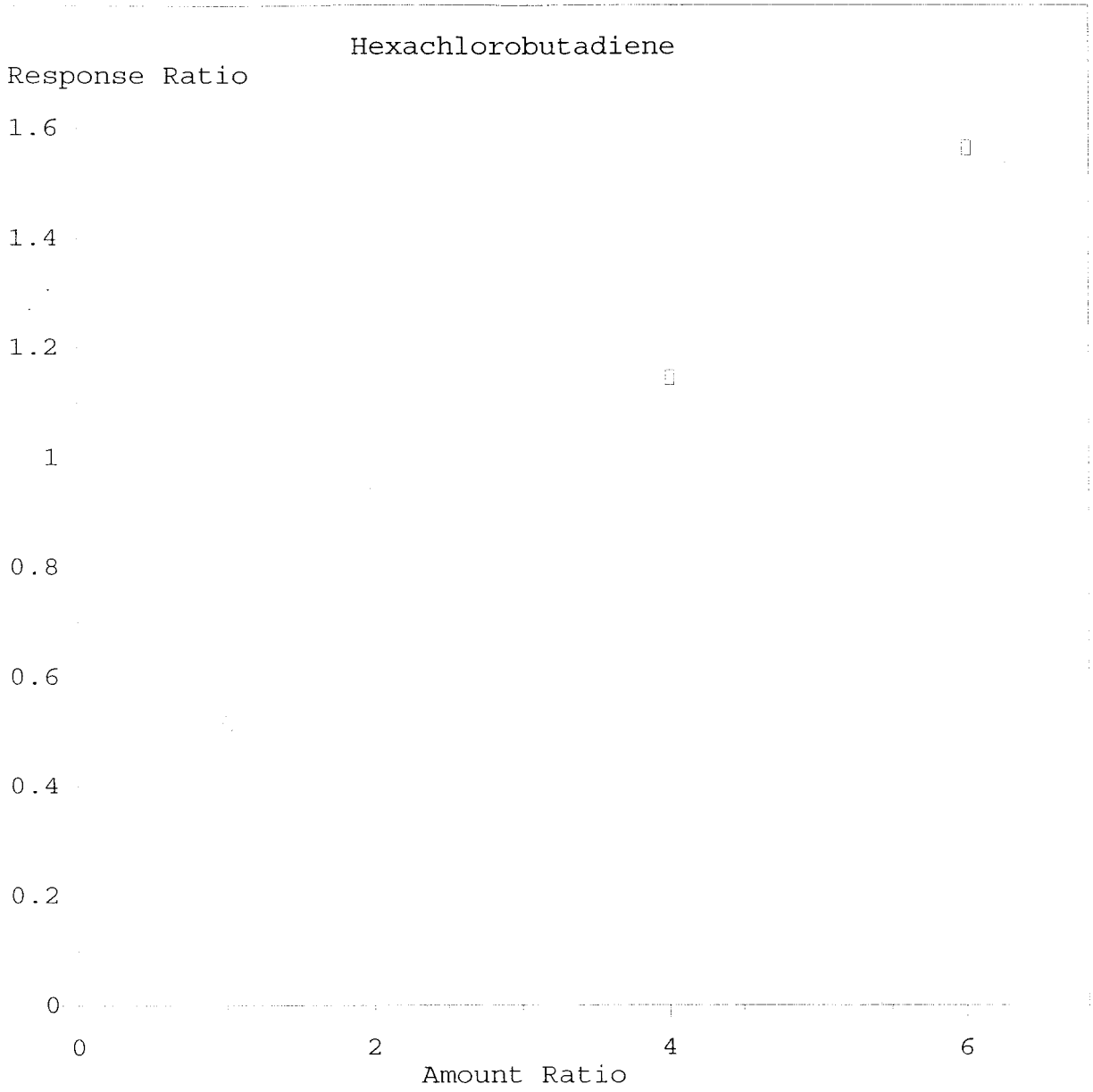
Resp Ratio = 4.00e-001 * Amt + 1.53e-001
Coef of Det (r^2) = 0.980 Curve Fit: Linear

Method Name: D:\HPCHEM\1\METHODS\MARILYN\CRV070902 TO14\TO14S.M
Calibration Table Last Updated: Mon Jul 29 14:17:31 2002



Resp Ratio = 5.05e-001 * Amt + 1.70e-001
Coef of Det (r^2) = 0.988 Curve Fit: Linear

Method Name: D:\HPCHEM\1\METHODS\MARILYN\CRV070902 TO14\TO14S.M
Calibration Table Last Updated: Mon Jul 29 14:17:31 2002



R = -2.74e-002 A*A + 3.97e-001 A + 1.22e-001
Curve Fit: Quadratic

Method Name: D:\HPCHEM\1\METHODS\MARILYN\CRV070902 TO14\TO14S.M
Calibration Table Last Updated: Mon Jul 29 14:17:31 2002

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\MARILYN\2M0722A\CM0722A.D Vial: 14
Acq On : 22 Jul 2002 9:57 am Operator: BDH
Sample : VSTD050\ DAILY CALIBRATION CHECK Inst : MARILYN
Misc : Pi/Pf=1 MA126ABK 250ng Multiplr: 1.00
MS Integration Params: rteint.p

Method : D:\HPCHEM\1\METHODS\MARILYN\CRV070902 TO14\TO14S.M (RTE Integ
Title : TO14
Last Update : Mon Jul 29 14:34:51 2002
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 2% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane IS#1	1.000	1.000	0.0	88	0.00
2		Dichlorodifluoromethane	0.838	1.124	-34.1#	101	0.00
3		Dichlorotetrafluoroethane	0.966	1.308	-35.4#	114	0.00
4	P	Chloromethane	0.558	0.529	5.2#	78	0.00
5	C	Vinyl chloride	0.607	0.618	-1.8#	82	0.00
6		Bromomethane	0.945	0.901	4.7#	81	0.00
7		Chloroethane	0.460	0.440	4.3#	79	0.00
8		Trichlorofluoromethane	2.282	2.413	-5.7#	88	0.00
9		1,1,2-Trichlorotrifluoroeth	1.958	2.043	-4.3#	88	0.00
10	MC	1,1-Dichloroethene	0.956	0.991	-3.7#	84	0.00
11		Iodomethane	0.000	0.000	0.0	256#	0.00
12		Methylene chloride	1.228	1.152	6.2#	78	0.00
13		Carbon disulfide	2.646	2.700	-2.0#	84	0.00
14		methyl-Tert-Butyl Ether	1.858	1.961	-5.5#	92	0.00
15		trans-1,2-Dichloroethene	1.116	1.133	-1.5	85	0.00
16		n-Hexane	1.000	1.058	-5.8#	93	0.00
17	P	1,1-Dichloroethane	1.835	1.855	-1.1	85	0.00
18		cis-1,2-Dichloroethene	1.467	1.479	-0.8	84	0.00
19	C	Chloroform	2.249	2.328	-3.5#	86	0.00
20		Isooctane	3.426	3.646	-6.4#	93	0.00
21		1,1,1-Trichloroethane	2.070	2.160	-4.3#	88	0.00
22		Carbon tetrachloride	2.218	2.321	-4.6#	88	0.00
23	S	1,2-Dichloroethane d4 SURR#	1.050	1.057	-0.7	92	0.00
24		1,2-Dichloroethane	1.129	1.168	-3.5#	88	0.00
25		1,2-Dibromoethane	2.054	2.168	-5.6#	91	0.00
26	I	1,4-Difluorobenzene IS#2	1.000	1.000	0.0	90	0.00
27	M	Benzene	0.650	0.663	-2.0#	86	0.00
28	M	Trichloroethene	0.399	0.409	-2.5#	87	0.00
29	C	1,2-Dichloropropane	0.280	0.282	-0.7#	85	0.00
30		Bromodichloromethane	0.662	0.676	-2.1#	87	0.00
31		cis-1,3-Dichloropropene	0.435	0.438	-0.7	86	0.00
32	S	Toluene-d8 SURR#2	0.771	0.752	2.5#	87	0.00
33	MC	Toluene	0.466	0.458	1.7#	83	0.00
34		trans-1,3-Dichloropropene	0.367	0.371	-1.1	86	0.00
35		1,1,2-Trichloroethane	0.292	0.300	-2.7#	89	0.00
36	I	Chlorobenzene-d5 IS#3	1.000	1.000	0.0	87	0.00
37		Tetrachloroethene	0.536	0.560	-4.5#	86	0.00
38		Dibromochloromethane	0.678	0.710	-4.7#	89	0.00
39	MP	Chlorobenzene	0.890	0.887	0.3	81	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\MARILYN\2M0722A\CM0722A.D Vial: 14
Acq On : 22 Jul 2002 9:57 am Operator: BDH
Sample : VSTD050\ DAILY CALIBRATION CHECK Inst : MARILYN
Misc : Pi/Pf=1 MA126ABK 250ng Multiplr: 1.00
MS Integration Params: rteint.p

Method : D:\HPCHEM\1\METHODS\MARILYN\CRV070902 TO14\TO14S.M (RTE Integ
Title : TO14
Last Update : Mon Jul 29 14:34:51 2002
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 2% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
40	C	Ethylbenzene	0.351	0.353	-0.6#	82	0.00
41		m,p-Xylene	0.460	0.463	-0.7	82	0.00
42		o-Xylene	0.444	0.425	4.3#	80	0.00
43		Styrene	0.764	0.767	-0.4	82	0.00
44	P	Bromoform	0.745	0.825	-10.7#	94	0.00
45	P	1,1,2,2-Tetrachloroethane	0.589	0.632	-7.3#	92	0.00
46	S	4-Bromofluorobenzene SURR#3	0.831	0.835	-0.5	88	0.00
47		1,4-Dichloro-2-butene	0.125	0.138	-10.4#	94	0.00
48		4-Ethyltoluene	1.124	1.175	-4.5#	87	0.00
49		1,3,5-Trimethylbenzene	0.894	0.944	-5.6#	84	0.00
50		2-Chlorotoluene	1.139	1.120	1.7	80	0.00
51		1,2,4-Trimethylbenzene	0.927	0.927	0.0	81	0.00
52		1,3-Dichlorobenzene	0.794	0.802	-1.0	81	0.00
53		1,4-Dichlorobenzene	0.831	0.818	1.6	79	0.00
54		1,2-Dichlorobenzene	0.742	0.766	-3.2#	80	0.00
55		1,2,4-Trichlorobenzene	0.532	0.566	-6.4#	84	0.00
56		Napthalene	0.689	0.708	-2.8#	89	0.00
57		Hexachlorobutadiene	0.402	0.487	-21.1#	83	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\MARILYN\2M0722A\CM0722A.D Vial: 14
Acq On : 22 Jul 2002 9:57 am Operator: BDH
Sample : VSTD050\ DAILY CALIBRATION CHECK Inst : MARILYN
Misc : Pi/Pf=1 MA126ABK 250ng Multiplr: 1.00
MS Integration Params: rteint.p

Method : D:\HPCHEM\1\METHODS\MARILYN\CRV070902 TO14\TO14S.M (RTE Integ
Title : TO14
Last Update : Mon Jul 29 14:34:51 2002
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 2% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Bromochloromethane IS#1	250.000	250.000	0.0	88	0.00
2		Dichlorodifluoromethane	250.000	335.581	-34.2#	101	0.00
3		Dichlorotetrafluoroethane	250.000	338.241	-35.3#	114	0.00
4	P	Chloromethane	250.000	237.204	5.1#	78	0.00
5	C	Vinyl chloride	250.000	254.295	-1.7#	82	0.00
6		Bromomethane	250.000	238.400	4.6#	81	0.00
7		Chloroethane	250.000	239.261	4.3#	79	0.00
8		Trichlorofluoromethane	250.000	264.385	-5.8#	88	0.00
9		1,1,2-Trichlorotrifluoroeth	250.000	260.843	-4.3#	88	0.00
10	MC	1,1-Dichloroethene	250.000	259.158	-3.7#	84	0.00
11		Iodomethane	-1.000	0.000	0.0	256	0.00
12		Methylene chloride	250.000	234.557	6.2#	78	0.00
13		Carbon disulfide	250.000	255.098	-2.0#	84	0.00
14		methyl-Tert-Butyl Ether	250.000	263.791	-5.5#	92	0.00
15		trans-1,2-Dichloroethene	250.000	253.858	-1.5	85	0.00
16		n-Hexane	250.000	264.569	-5.8#	93	0.00
17	P	1,1-Dichloroethane	250.000	252.718	-1.1	85	0.00
18		cis-1,2-Dichloroethene	250.000	252.111	-0.8	84	0.00
19	C	Chloroform	250.000	258.796	-3.5#	86	0.00
20		Isooctane	250.000	266.047	-6.4#	93	0.00
21		1,1,1-Trichloroethane	250.000	260.767	-4.3#	88	0.00
22		Carbon tetrachloride	250.000	261.604	-4.6#	88	0.00
23	S	1,2-Dichloroethane d4 SURR#	250.000	251.805	-0.7	92	0.00
24		1,2-Dichloroethane	250.000	258.841	-3.5#	88	0.00
25		1,2-Dibromoethane	250.000	263.849	-5.5#	91	0.00
26	I	1,4-Difluorobenzene IS#2	250.000	250.000	0.0	90	0.00
27	M	Benzene	250.000	255.010	-2.0#	86	0.00
28	M	Trichloroethene	250.000	256.074	-2.4#	87	0.00
29	C	1,2-Dichloropropane	250.000	252.056	-0.8#	85	0.00
30		Bromodichloromethane	250.000	255.437	-2.2#	87	0.00
31		cis-1,3-Dichloropropene	250.000	251.784	-0.7	86	0.00
32	S	Toluene-d8 SURR#2	250.000	244.001	2.4#	87	0.00
33	MC	Toluene	250.000	245.686	1.7#	83	0.00
34		trans-1,3-Dichloropropene	250.000	252.247	-0.9	86	0.00
35		1,1,2-Trichloroethane	250.000	257.187	-2.9#	89	0.00
36	I	Chlorobenzene-d5 IS#3	250.000	250.000	0.0	87	0.00
37		Tetrachloroethene	250.000	261.076	-4.4#	86	0.00
38		Dibromochloromethane	250.000	262.046	-4.8#	89	0.00
39	MP	Chlorobenzene	250.000	249.287	0.3	81	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\MARILYN\2M0722A\CM0722A.D Vial: 14
Acq On : 22 Jul 2002 9:57 am Operator: BDH
Sample : VSTD050\ DAILY CALIBRATION CHECK Inst : MARILYN
Misc : Pi/Pf=1 MA126ABK 250ng Multiplr: 1.00
MS Integration Params: rteint.p

Method : D:\HPCHEM\1\METHODS\MARILYN\CRV070902 TO14\TO14S.M (RTE Integ
Title : TO14
Last Update : Mon Jul 29 14:34:51 2002
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 2% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
40	C	Ethylbenzene	250.000	251.165	-0.5#	82	0.00
41		m,p-Xylene	500.000	502.905	-0.6	82	0.00
42		o-Xylene	250.000	239.440	4.2#	80	0.00
43		Styrene	250.000	250.975	-0.4	82	0.00
44	P	Bromoform	250.000	276.801	-10.7#	94	0.00
45	P	1,1,2,2-Tetrachloroethane	250.000	268.308	-7.3#	92	0.00
46	S	4-Bromofluorobenzene SURR#3	250.000	251.132	-0.5	88	0.00
47		1,4-Dichloro-2-butene	250.000	277.562	-11.0#	94	0.00
48		4-Ethyltoluene	250.000	261.356	-4.5#	87	0.00
49		1,3,5-Trimethylbenzene	250.000	264.072	-5.6#	84	0.00
50		2-Chlorotoluene	250.000	245.662	1.7	80	0.00
51		1,2,4-Trimethylbenzene	250.000	250.095	-0.0	81	0.00
52		1,3-Dichlorobenzene	250.000	252.370	-0.9	81	0.00
53		1,4-Dichlorobenzene	250.000	245.996	1.6	79	0.00
54		1,2-Dichlorobenzene	250.000	258.018	-3.2#	80	0.00
55		1,2,4-Trichlorobenzene	250.000	263.466	-5.4#	84	0.00
56		Napthalene	250.000	268.350	-7.3#	89	0.00
57		Hexachlorobutadiene	250.000	252.021	-0.8	83	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL PENSACOLA Contract: N/A

Lab Code: STL PN Case No.: N/A SAS No.: N/A SDG No.: C207404

Lab File ID (Standard): CM0722A.D Date Analyzed: 7/22/02

Instrument ID: MARILYN Time Analyzed: 9:57

GC Column: CAP ID: 0.53 (mm) Heated Purge: (Y/N) N

		IS1BCM			IS2DFB			IS3CLB		
		AREA	#	RT	#	AREA	#	RT	#	AREA	#	RT	#
	12 HOUR STD	402030		11.16		1628885		13.10		1233699		20.38	
	UPPER LIMIT	804060		11.66		3257770		13.60		2467398		20.88	
	LOWER LIMIT	201015		10.66		814443		12.60		616850		19.88	
	EPA SAMPLE NO.												
01	VBLKMA	402552		11.16		1604130		13.10		1212444		20.39	
02	LCS AND 2ND	412585		11.19		1681582		13.13		1275905		20.39	
03	SVEEA	415047		11.20		1747319		13.14		1287369		20.41	

IS1 BCM = Bromochloromethane IS#

IS2 DFB = 1,4-Difluorobenzene IS#2

IS3 CLB = Chlorobenzene-d5 IS#3

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

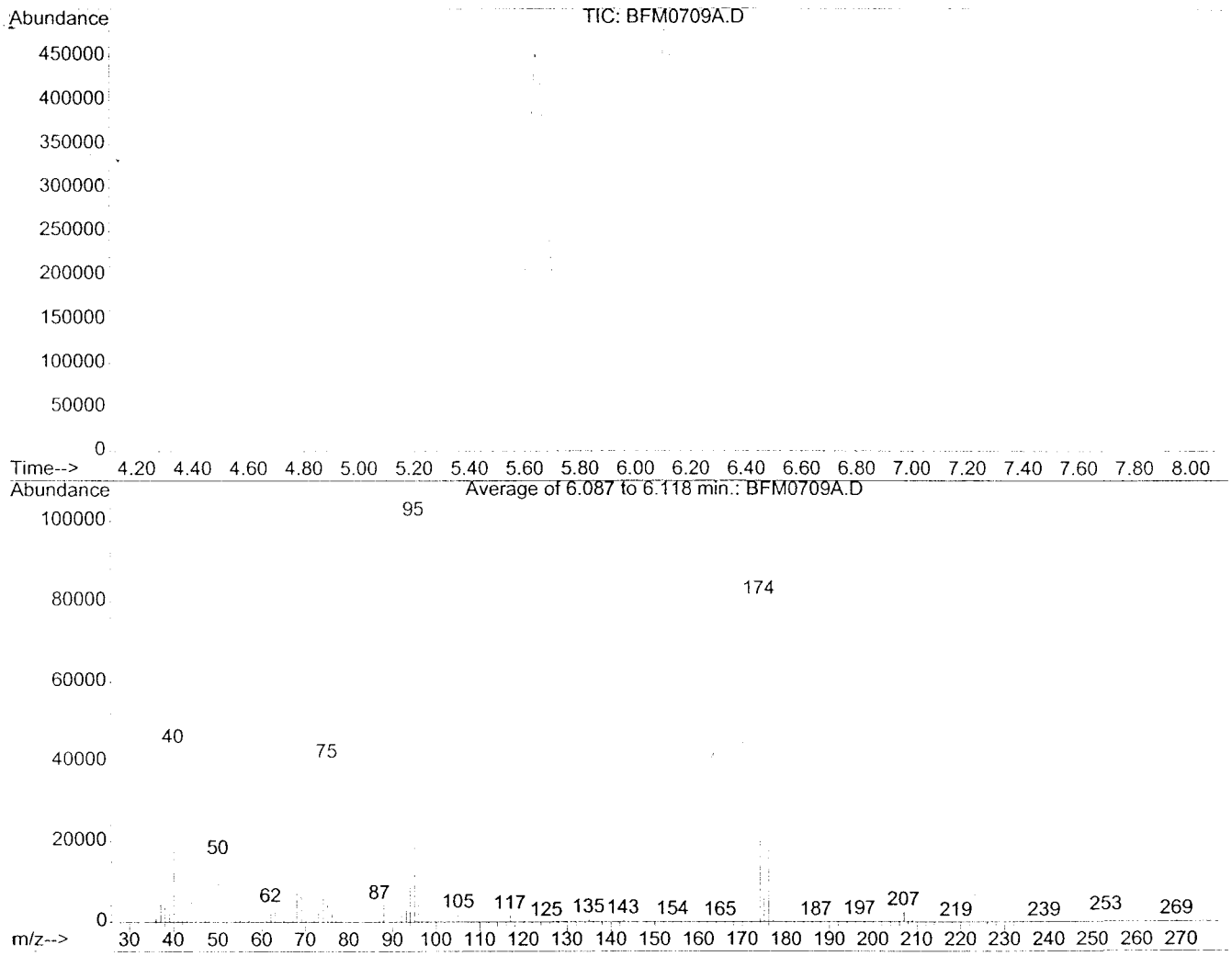
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.

* Values outside of contract required QC limits

BFB

Data File : D:\HPCHEM\1\DATA\MARILYN\2M0709A\BFM0709A.D Vial: 13
Acq On : 9 Jul 2002 10:51 am Operator: BDH
Sample : DAILY BFB 12HR. TUNE 50ppb Inst : MARILYN
Misc : Pi/Pf=1 MAB121ABK BFB TUNE CHECK Multiplr: 1.00
MS Integration Params: rteint.p
Method : D:\HPCHEM\1\METHODS\MARILYN\CRV070902 TO14\TO14S.M (RTE Integr
Title : TO14



Spectrum Information: Average of 6.087 to 6.118 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.5	15529	PASS
75	95	30	60	39.5	39524	PASS
95	95	100	100	100.0	100000	PASS
96	95	5	9	6.8	6764	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	80.2	80249	PASS
175	174	5	9	7.8	6277	PASS
176	174	95	101	98.1	78707	PASS
177	176	5	9	6.9	5468	PASS

BFM0709A.D TO14S.M Mon Jul 29 14:19:59 2002

Quantitation Report

Data File : D:\HPCHEM\1\DATA\MARILYN\2M0709A\CMA0025.D Vial: 14
Acq On : 9 Jul 2002 12:19 pm Operator: BDH
Sample : 25ng/1uL/5ppb INITIAL CALIB. Inst : MARILYN
Misc : Pi/Pf=1 MA121ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 9 13:59 2002 Quant Results File: TO14S.RES

Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Fri Jun 14 10:14:04 2002
Response via : Initial Calibration
DataAcq Meth : TO14S
IS QA File : D:\HPCHEM\1\DATA02\M0617A\CM0617A.D (17 Jun 2002 10:10)

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) Bromochloromethane IS#1	11.19	128	446302	250.00	ng	-0.07 96.14%
26) 1,4-Difluorobenzene IS#2	13.15	114	1762022	250.00	ng	-0.05 94.04%
36) Chlorobenzene-d5 IS#3	20.45	117	1356408	250.00	ng	-0.07 94.21%

System Monitoring Compounds

23) 1,2-Dichloroethane d4 SURR	12.34	65	470790	194.48	ng	-0.07
Spiked Amount 250.000 Range 61 - 140 Recovery = 77.79%						
32) Toluene-d8 SURR#2	16.69	98	1363361	252.92	ng	-0.07
Spiked Amount 250.000 Range 90 - 109 Recovery = 101.17%						
46) 4-Bromofluorobenzene SURR#	23.59	95	1148577	225.44	ng	-0.07
Spiked Amount 250.000 Range 87 - 112 Recovery = 90.18%						

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.63	85	36341m	13.05	ng	# 97
3) Dichlorotetrafluoroethane	3.83	135	45176	15.65	ng	# 47
4) Chloromethane	4.12	50	23925	17.12	ng	# 69
5) Vinyl chloride	4.29	62	25952	18.33	ng	# 87
6) Bromomethane	5.15	94	44007	21.66	ng	# 79
7) Chloroethane	5.30	64	18609	31.78	ng	# 67
8) Trichlorofluoromethane	5.77	101	88510	16.12	ng	97
9) 1,1,2-Trichlorotrifluoroet	6.56	151	76392	21.19	ng	# 79
10) 1,1-Dichloroethene	6.92	96	37699	20.15	ng	81
12) Methylene chloride	7.85	49	46771	18.86	ng	92
13) Carbon disulfide	7.96	76	104320	19.53	ng	98
14) methyl-Tert-Butyl Ether	8.18	73	75440	22.79	ng	# 86
15) trans-1,2-Dichloroethene	8.44	96	42416	19.23	ng	91
16) n-Hexane	8.57	57	37950	18.64	ng	# 1
17) 1,1-Dichloroethane	9.28	63	71871	18.94	ng	# 91
18) cis-1,2-Dichloroethene	10.52	61	56331	18.21	ng	89
19) Chloroform	10.83	83	87840	18.00	ng	# 96
20) Isooctane	11.80	57	123284	18.14	ng	96
21) 1,1,1-Trichloroethane	11.70	97	82574	17.70	ng	95
22) Carbon tetrachloride	12.26	117	85562	17.89	ng	98
24) 1,2-Dichloroethane	12.54	62	43001	16.57	ng	# 92
25) 1,2-Dibromoethane	19.48	107	78066	22.23	ng	97
27) Benzene	12.62	78	102795	21.23	ng	95

(#) = qualifier out of range (m) = manual integration
CMA0025.D TO14S.M Mon Jul 29 14:25:55 2002

Quantitation Report

Data File : D:\HPCHEM\1\DATA\MARILYN\2M0709A\CMA0025.D Vial: 14
Acq On : 9 Jul 2002 12:19 pm Operator: BDH
Sample : 25ng/1uL/5ppb INITIAL CALIB. Inst : MARILYN
Misc : Pi/Pf=1 MA121ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 9 13:59 2002 Quant Results File: TO14S.RES

Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Fri Jun 14 10:14:04 2002
Response via : Initial Calibration
DataAcq Meth : TO14S

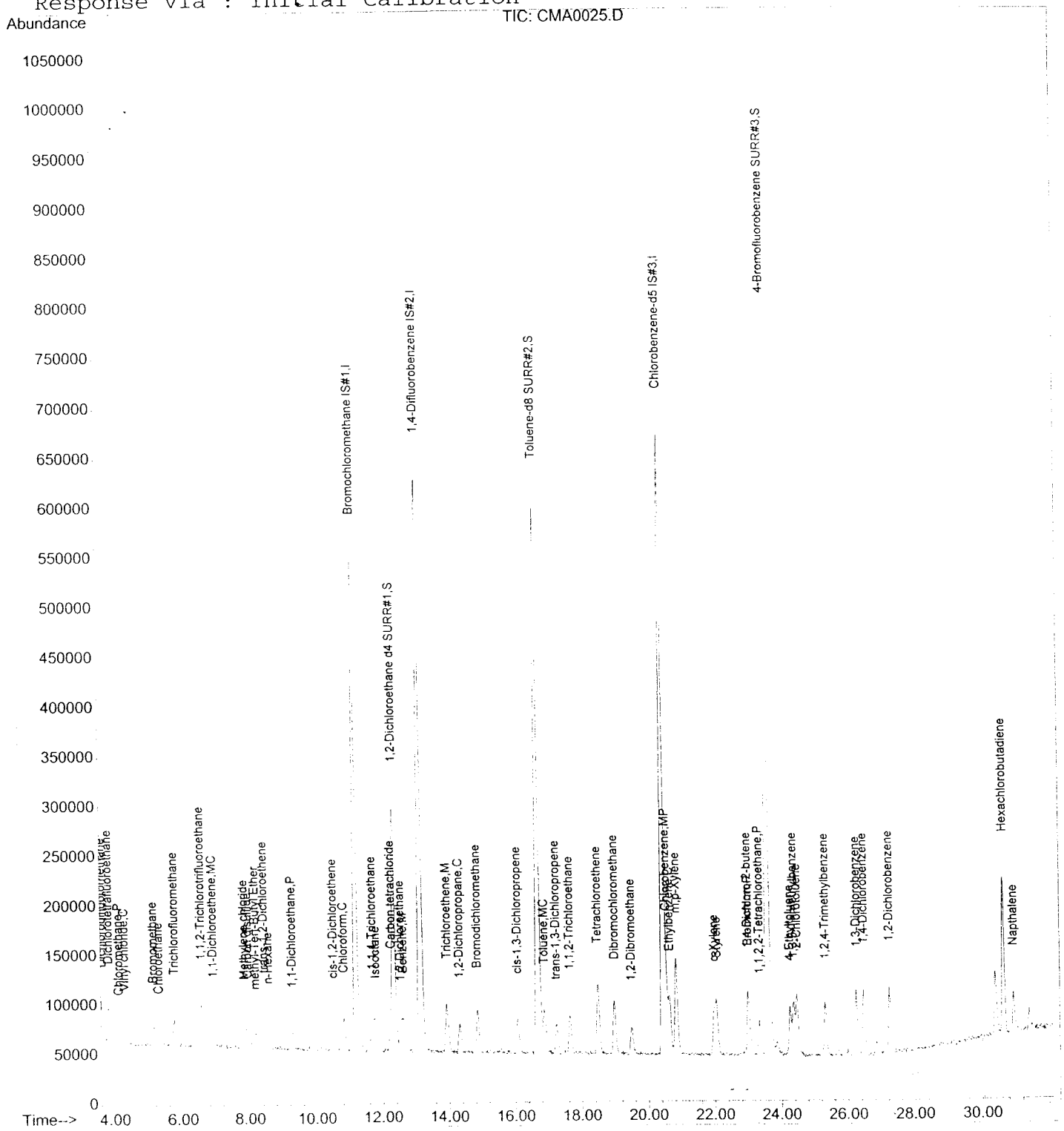
Compound	R.T.	QIon	Response	Conc Unit		Qvalue
28) Trichloroethene	13.94	130	62152	22.83 ng		90
29) 1,2-Dichloropropane	14.31	63	41148	19.88 ng		95
30) Bromodichloromethane	14.84	83	103167	18.85 ng	#	97
31) cis-1,3-Dichloropropene	16.07	75	67233	20.29 ng		94
33) Toluene	16.88	92	73948	22.69 ng	#	95
34) trans-1,3-Dichloropropene	17.23	75	54554	19.44 ng		94
35) 1,1,2-Trichloroethane	17.64	97	46404	24.41 ng		96
37) Tetrachloroethene	18.48	164	65925	23.18 ng		90
38) Dibromochloromethane	18.99	127	83299	22.56 ng	#	96
39) Chlorobenzene	20.54	112	107379	22.63 ng		98
40) Ethylbenzene	20.63	106	42983	22.14 ng		95
41) m,p-Xylene	20.84	106	110792	44.40 ng		99
42) o-Xylene	21.99	106	55063	22.47 ng		87
43) Styrene	22.06	104	89778	21.37 ng		94
44) Bromoform	22.99	173	91964	25.61 ng		99
45) 1,1,2,2-Tetrachloroethane	23.34	83	77325	28.14 ng	#	97
47) 1,4-Dichloro-2-butene	22.98	75	13497	21.73 ng	#	80
48) 4-Ethyltoluene	24.25	105	138229	21.40 ng		95
49) 1,3,5-Trimethylbenzene	24.36	105	118984	24.72 ng		91
50) 2-Chlorotoluene	24.47	91	150233	23.05 ng		100
51) 1,2,4-Trimethylbenzene	25.32	105	120317	23.52 ng		100
52) 1,3-Dichlorobenzene	26.26	146	102596	24.86 ng	#	89
53) 1,4-Dichlorobenzene	26.47	146	104901	24.73 ng	#	90
54) 1,2-Dichlorobenzene	27.24	146	93405	25.17 ng	#	91
55) 1,2,4-Trichlorobenzene	30.39	180	84277	Below Cal		96
56) Napthalene	30.93	128	121970	24.65 ng	#	86
57) Hexachlorobutadiene	30.64	225	108856	52.60 ng		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\MARILYN\2M0709A\CMA0025.D Vial: 14
Acq On : 9 Jul 2002 12:19 pm Operator: BDH
Sample : 25ng/1uL/5ppb INITIAL CALIB. Inst : MARILYN
Misc : Pi/Pf=1 MA121ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 9 13:59 2002 Quant Results File: TO14S.RES

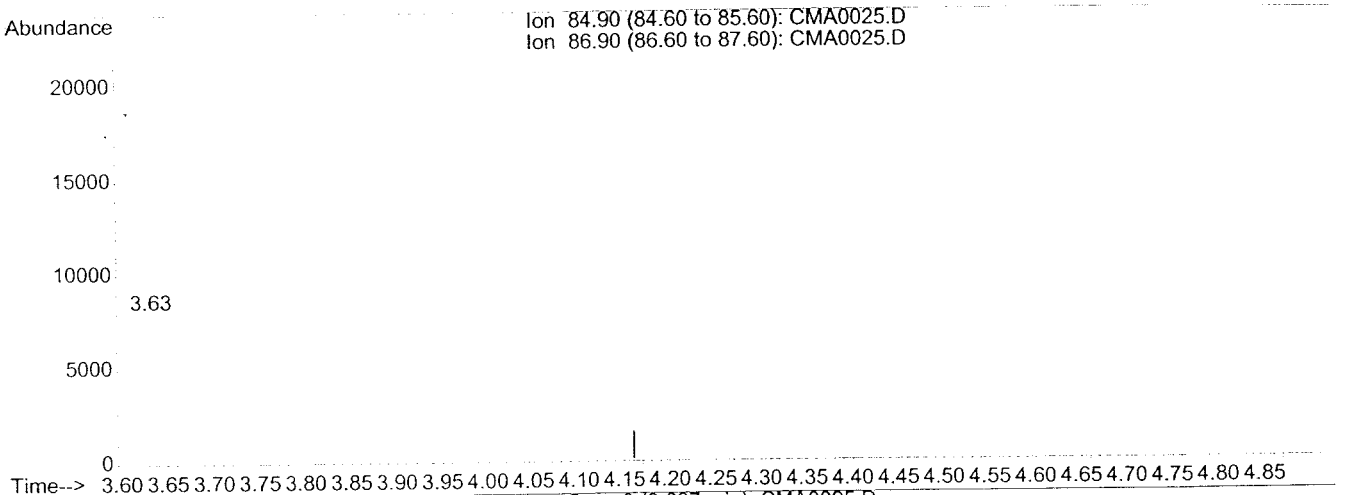
Method : D:\HPCHEM\1\METHODS\MARILYN\CRV070902 TO14\TO14S.M (RTE Inte
Title : TO14
Last Update : Mon Jul 29 14:17:31 2002
Response via : Initial Calibration

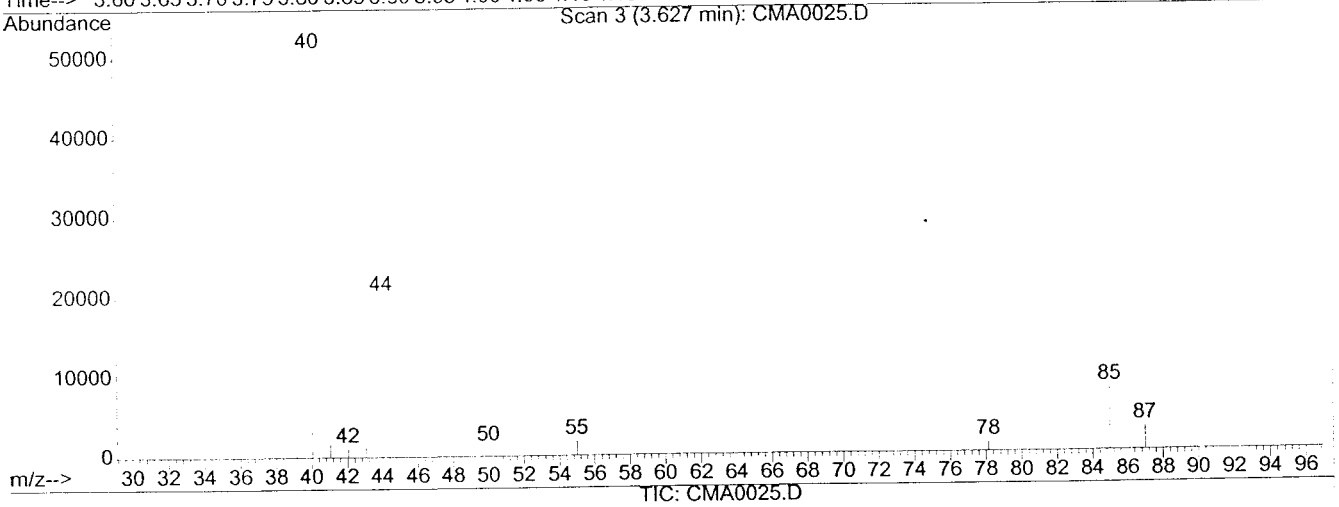


Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\MARILYN\2M0709A\CMA0025.D Vial: 14
Acq On : 9 Jul 2002 12:19 pm Operator: BDH
Sample : 25ng/1uL/5ppb INITIAL CALIB. Inst : MARILYN
Misc : Pi/Pf=1 MA121ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 9 13:59 2002 Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\MARILYN\CRV070902 TO14\TO14S.M (RTE In
Title : TO14
Last Update : Mon Jul 29 14:17:31 2002
Response via : Multiple Level Calibration





(2) Dichlorodifluoromethane

3.63min 13.05ng m

response 36341

Ion	Exp%	Act%
84.90	100	100
86.90	33.50	69.00#
0.00	0.00	0.00
0.00	0.00	0.00

CMA0025.D TO14S.M Mon Jul 29 14:27:54 2002

Quantitation Report

Data File : D:\HPCHEM\1\DATA\MARILYN\2M0709A\CMA0100R.D Vial: 14
Acq On : 9 Jul 2002 5:10 pm Operator: BDH
Sample : 100ng/4uL/20ppb INITIAL CALIB. Inst : MARILYN
Misc : Pi/Pf=1 MAB121ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 9 17:43 2002 Quant Results File: TO14S.RES

Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Tue Jul 09 14:15:24 2002
Response via : Initial Calibration
DataAcq Meth : TO14S
IS QA File : D:\HPCHEM\1\DATA02\M0709A\CMA0250.D (9 Jul 2002 13:34)

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) Bromochloromethane IS#1	11.19	128	450089	250.00 ng	-0.02 99.04%
26) 1,4-Difluorobenzene IS#2	13.13	114	1799470	250.00 ng	-0.02 99.19%
36) Chlorobenzene-d5 IS#3	20.43	117	1369282	250.00 ng	0.00 96.96%

System Monitoring Compounds

23) 1,2-Dichloroethane d4 SURR	12.32	65	473186	221.60 ng	-0.03
Spiked Amount 250.000 Range 61 - 140 Recovery = 88.64%					
32) Toluene-d8 SURR#2	16.67	98	1383200	250.38 ng	-0.02
Spiked Amount 250.000 Range 90 - 109 Recovery = 100.15%					
46) 4-Bromofluorobenzene SURR#	23.58	95	1134785	234.68 ng	0.02
Spiked Amount 250.000 Range 87 - 112 Recovery = 93.87%					

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.64	85	141098m	64.04 ng	#	98
3) Dichlorotetrafluoroethane	3.84	135	191559	79.43 ng	#	51
4) Chloromethane	4.12	50	90694	76.27 ng	#	78
5) Vinyl chloride	4.31	62	102949	80.84 ng	#	93
6) Bromomethane	5.16	94	163229	86.98 ng	#	93
7) Chloroethane	5.29	64	75070	81.49 ng	#	94
8) Trichlorofluoromethane	5.77	101	391117	82.01 ng		99
9) 1,1,2-Trichlorotrifluoroet	6.59	151	335779	95.74 ng	#	77
10) 1,1-Dichloroethene	6.93	96	157706	88.91 ng		90
12) Methylene chloride	7.86	49	212511	91.53 ng		96
13) Carbon disulfide	7.96	76	458079	91.04 ng		100
14) methyl-Tert-Butyl Ether	8.16	73	318768	101.66 ng		97
15) trans-1,2-Dichloroethene	8.44	96	192499	93.22 ng		91
16) n-Hexane	8.55	57	182798	101.46 ng	#	1
17) 1,1-Dichloroethane	9.28	63	317277	90.11 ng		98
18) cis-1,2-Dichloroethene	10.52	61	250102	88.05 ng		88
19) Chloroform	10.83	83	382920	87.18 ng		96
20) Isooctane	11.78	57	859245	145.08 ng		94
21) 1,1,1-Trichloroethane	11.70	97	352247	85.20 ng	#	84
22) Carbon tetrachloride	12.26	117	384200	88.76 ng		99
24) 1,2-Dichloroethane	12.52	62	188801	83.62 ng	#	97
25) 1,2-Dibromoethane	19.48	107	352093	102.77 ng		98
27) Benzene	12.60	78	455305	97.63 ng		97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\MARILYN\2M0709A\CMA0100R.D Vial: 14
Acq On : 9 Jul 2002 5:10 pm Operator: BDH
Sample : 100ng/4uL/20ppb INITIAL CALIB. Inst : MARILYN
Misc : Pi/Pf=1 MAB121ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 9 17:43 2002 Quant Results File: TO14S.RES

Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Tue Jul 09 14:15:24 2002
Response via : Initial Calibration
DataAcq Meth : TO14S

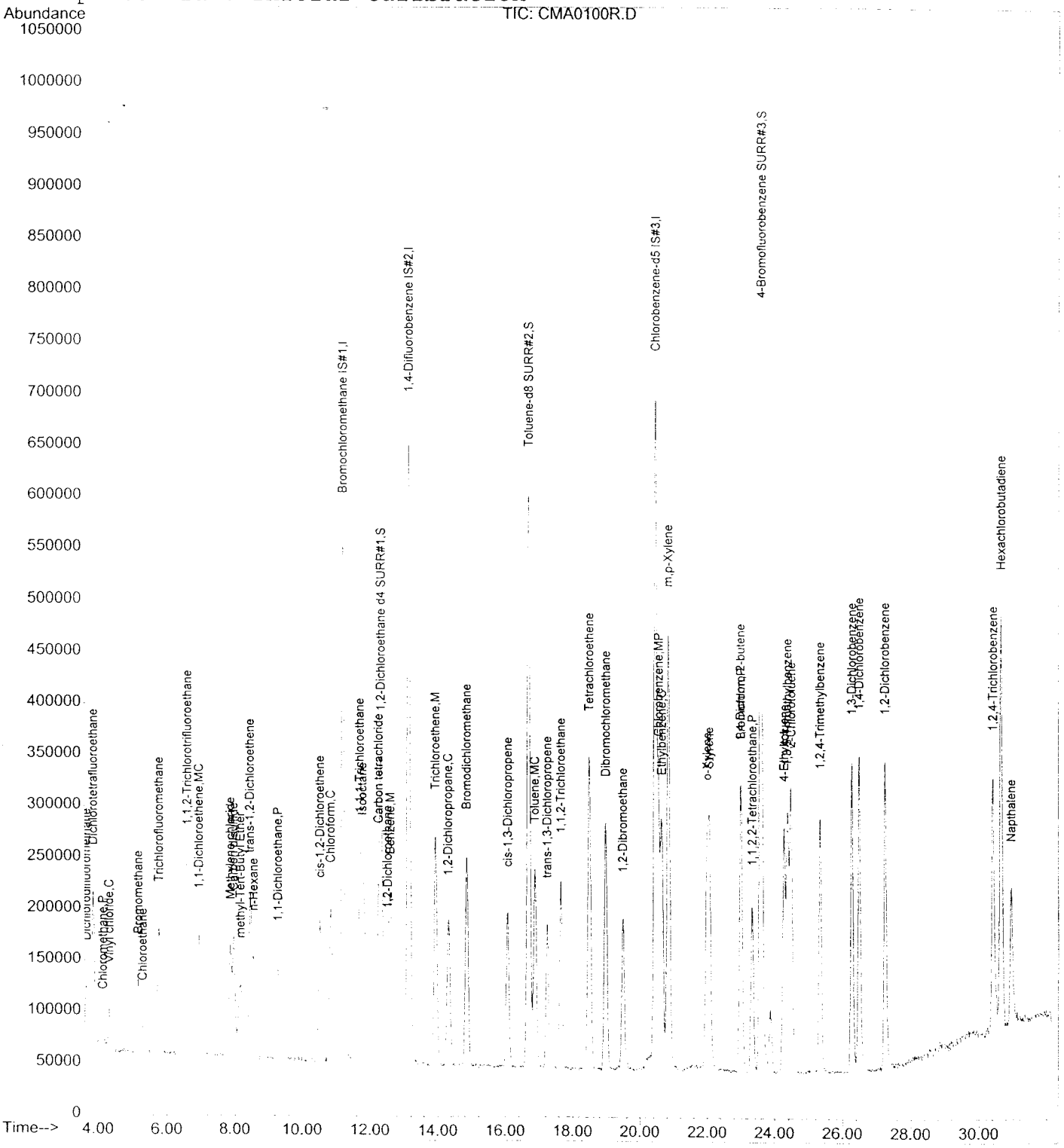
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
28)	Trichloroethene	13.92	130	273846	99.78	ng		91
29)	1,2-Dichloropropane	14.29	63	195300	97.91	ng		95
30)	Bromodichloromethane	14.84	83	457468	92.15	ng		100
31)	cis-1,3-Dichloropropene	16.07	75	294889	93.91	ng		94
33)	Toluene	16.86	92	314873	97.28	ng	#	98
34)	trans-1,3-Dichloropropene	17.23	75	246251	93.74	ng		98
35)	1,1,2-Trichloroethane	17.63	97	201806	105.64	ng		94
37)	Tetrachloroethene	18.47	164	278778	98.87	ng		90
38)	Dibromochloromethane	18.97	127	351337	99.16	ng	#	96
39)	Chlorobenzene	20.54	112	472076	100.56	ng		90
40)	Ethylbenzene	20.63	106	186863	99.29	ng		98
41)	m,p-Xylene	20.82	106	492388	201.33	ng		94
42)	o-Xylene	21.98	106	236278	99.71	ng		95
43)	Styrene	22.05	104	402265	98.80	ng		94
44)	Bromoform	22.99	173	391564	108.25	ng		99
45)	1,1,2,2-Tetrachloroethane	23.33	83	316978	113.92	ng		99
47)	1,4-Dichloro-2-butene	22.98	75	58288	97.84	ng		94
48)	4-Ethyltoluene	24.27	105	614244	101.77	ng		99
49)	1,3,5-Trimethylbenzene	24.36	105	529511	113.17	ng		100
50)	2-Chlorotoluene	24.47	91	619588	99.98	ng		98
51)	1,2,4-Trimethylbenzene	25.32	105	508115	102.99	ng		99
52)	1,3-Dichlorobenzene	26.25	146	426051	103.99	ng	#	92
53)	1,4-Dichlorobenzene	26.47	146	450830	106.30	ng	#	92
54)	1,2-Dichlorobenzene	27.23	146	412743	110.76	ng	#	91
55)	1,2,4-Trichlorobenzene	30.40	180	295811	117.44	ng		99
56)	Napthalene	30.94	128	417029	136.96	ng	#	90
57)	Hexachlorobutadiene	30.63	225	263654	115.84	ng		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\MARILYN\2M0709A\CMA0100R.D Vial: 14
Acq On : 9 Jul 2002 5:10 pm Operator: BDH
Sample : 100ng/4uL/20ppb INITIAL CALIB. Inst : MARILYN
Misc : Pi/Pf=1 MAB121ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 9 17:43 2002 Quant Results File: TO14S.RES

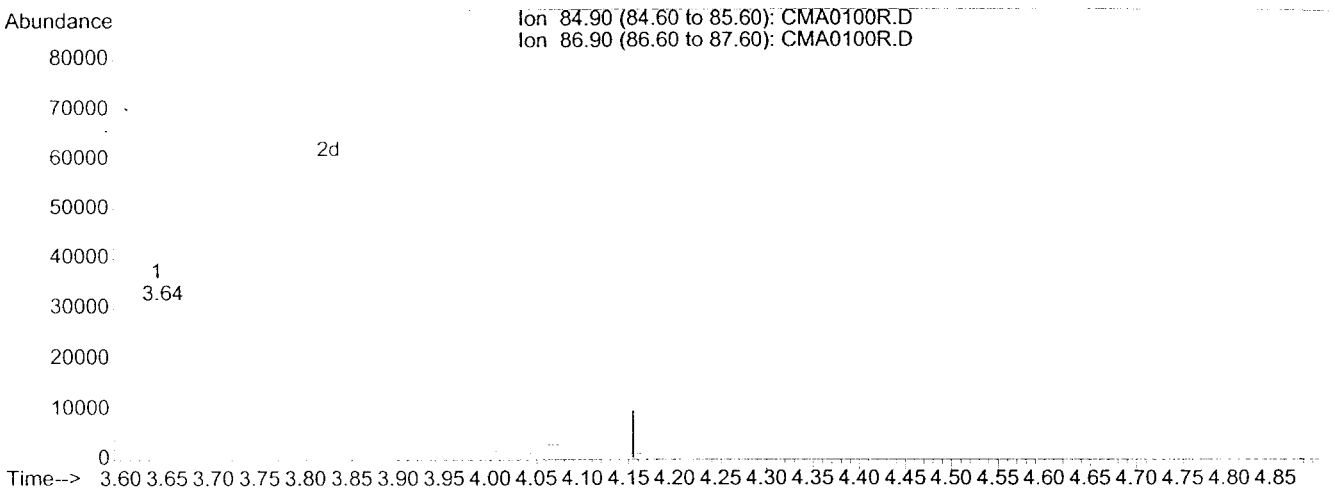
Method : D:\HPCHEM\1\METHODS\MARILYN\CRV070902 TO14\TO14S.M (RTE Inte
Title : TO14
Last Update : Mon Jul 29 14:17:31 2002
Response via : Initial Calibration

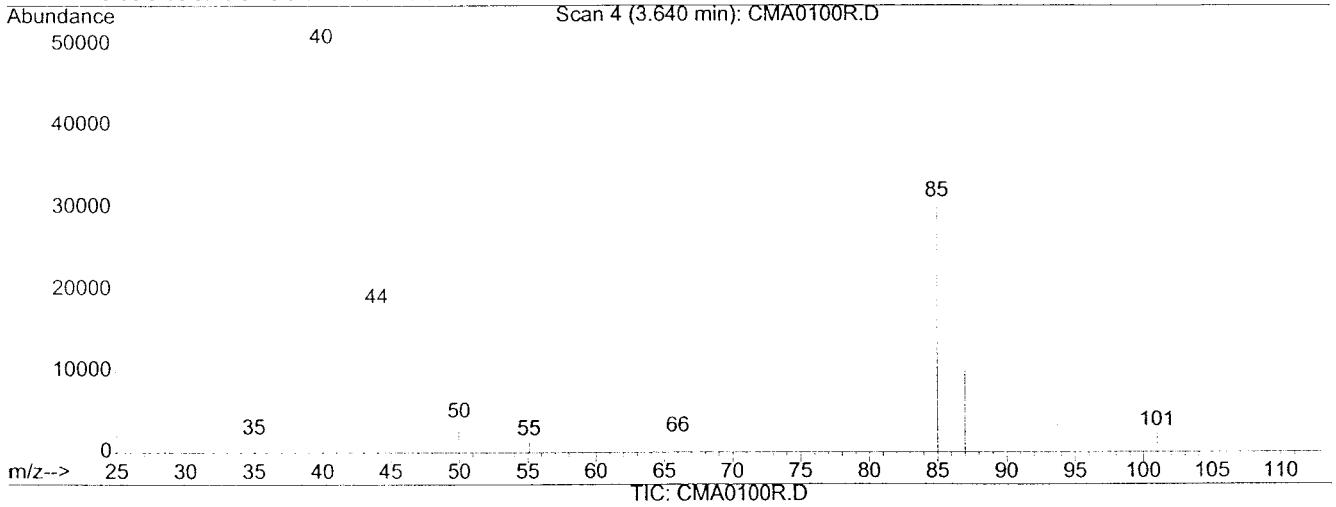


Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\MARILYN\2M0709A\CMA0100R.D Vial: 14
Acq On : 9 Jul 2002 5:10 pm Operator: BDH
Sample : 100ng/4uL/20ppb INITIAL CALIB. Inst : MARILYN
Misc : Pi/Pf=1 MAB121ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 9 17:43 2002 Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\MARILYN\CRV070902 TO14\TO14S.M (RTE In
Title : TO14
Last Update : Mon Jul 29 14:17:31 2002
Response via : Multiple Level Calibration





(2) Dichlorodifluoromethane

3.64min 64.04ng m

response 141098

Ion	Exp%	Act%
84.90	100	100
86.90	33.50	19.96#
0.00	0.00	0.00
0.00	0.00	0.00

CMA0100R.D TO14S.M Mon Jul 29 14:28:17 2002

Quantitation Report

Data File : D:\HPCHEM\1\DATA\MARILYN\2M0709A\CMA0250.D Vial: 16
Acq On : 9 Jul 2002 1:34 pm Operator: BDH
Sample : 250ng/10uL/50ppb INITIAL CALIB. Inst : MARILYN
Misc : Pi/Pf=1 MA121ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 9 14:13 2002 Quant Results File: TO14S.RES

Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Fri Jun 14 10:14:04 2002
Response via : Initial Calibration
DataAcq Meth : TO14S
IS QA File : D:\HPCHEM\1\DATA02\M0617A\CM0617A.D (17 Jun 2002 10:10)

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) Bromochloromethane IS#1	11.20	128	454472	250.00	ng	-0.05 97.90%
26) 1,4-Difluorobenzene IS#2	13.15	114	1814091	250.00	ng	-0.05 96.82%
36) Chlorobenzene-d5 IS#3	20.43	117	1412206	250.00	ng	-0.08 98.08%

System Monitoring Compounds

23) 1,2-Dichloroethane d4 SURR	12.35	65	459847	186.55	ng	-0.05
Spiked Amount 250.000 Range 61 - 140 Recovery = 74.62%						
32) Toluene-d8 SURR#2	16.69	98	1405019	253.17	ng	-0.07
Spiked Amount 250.000 Range 90 - 109 Recovery = 101.27%						
46) 4-Bromofluorobenzene SURR#	23.57	95	1173389	221.21	ng	-0.08
Spiked Amount 250.000 Range 87 - 112 Recovery = 88.48%						

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.66	85	448141m	157.98	ng	# 98
3) Dichlorotetrafluoroethane	3.86	135	459237	156.24	ng	# 56
4) Chloromethane	4.14	50	272606	191.58	ng	# 92
5) Vinyl chloride	4.32	62	301200	208.93	ng	96
6) Bromomethane	5.18	94	449470	217.28	ng	# 95
7) Chloroethane	5.30	64	223511	215.83	ng	96
8) Trichlorofluoromethane	5.78	101	1107134	198.05	ng	99
9) 1,1,2-Trichlorotrifluoroet	6.61	151	932107	253.85	ng	# 77
10) 1,1-Dichloroethene	6.95	96	475657	249.73	ng	88
12) Methylene chloride	7.88	49	595404	235.83	ng	94
13) Carbon disulfide	7.99	76	1298775	238.81	ng	99
14) methyl-Tert-Butyl Ether	8.17	73	852971	253.09	ng	97
15) trans-1,2-Dichloroethene	8.45	96	536537	238.82	ng	92
16) n-Hexane	8.56	57	457275	220.55	ng	# 1
17) 1,1-Dichloroethane	9.29	63	880405	227.84	ng	97
18) cis-1,2-Dichloroethene	10.52	61	704077	223.46	ng	92
19) Chloroform	10.85	83	1087597	218.86	ng	98
20) Isooctane	11.81	57	1576711	227.82	ng	94
21) 1,1,1-Trichloroethane	11.70	97	985957	207.56	ng	90
22) Carbon tetrachloride	12.28	117	1065526	218.77	ng	99
24) 1,2-Dichloroethane	12.54	62	534422	202.17	ng	# 97
25) 1,2-Dibromoethane	19.48	107	962515	269.12	ng	99
27) Benzene	12.63	78	1250233	250.75	ng	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\MARILYN\2M0709A\CMA0250.D Vial: 16
Acq On : 9 Jul 2002 1:34 pm Operator: BDH
Sample : 250ng/10uL/50ppb INITIAL CALIB. Inst : MARILYN
Misc : Pi/Pf=1 MA121ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 9 14:13 2002 Quant Results File: TO14S.RES

Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Fri Jun 14 10:14:04 2002
Response via : Initial Calibration
DataAcq Meth : TO14S

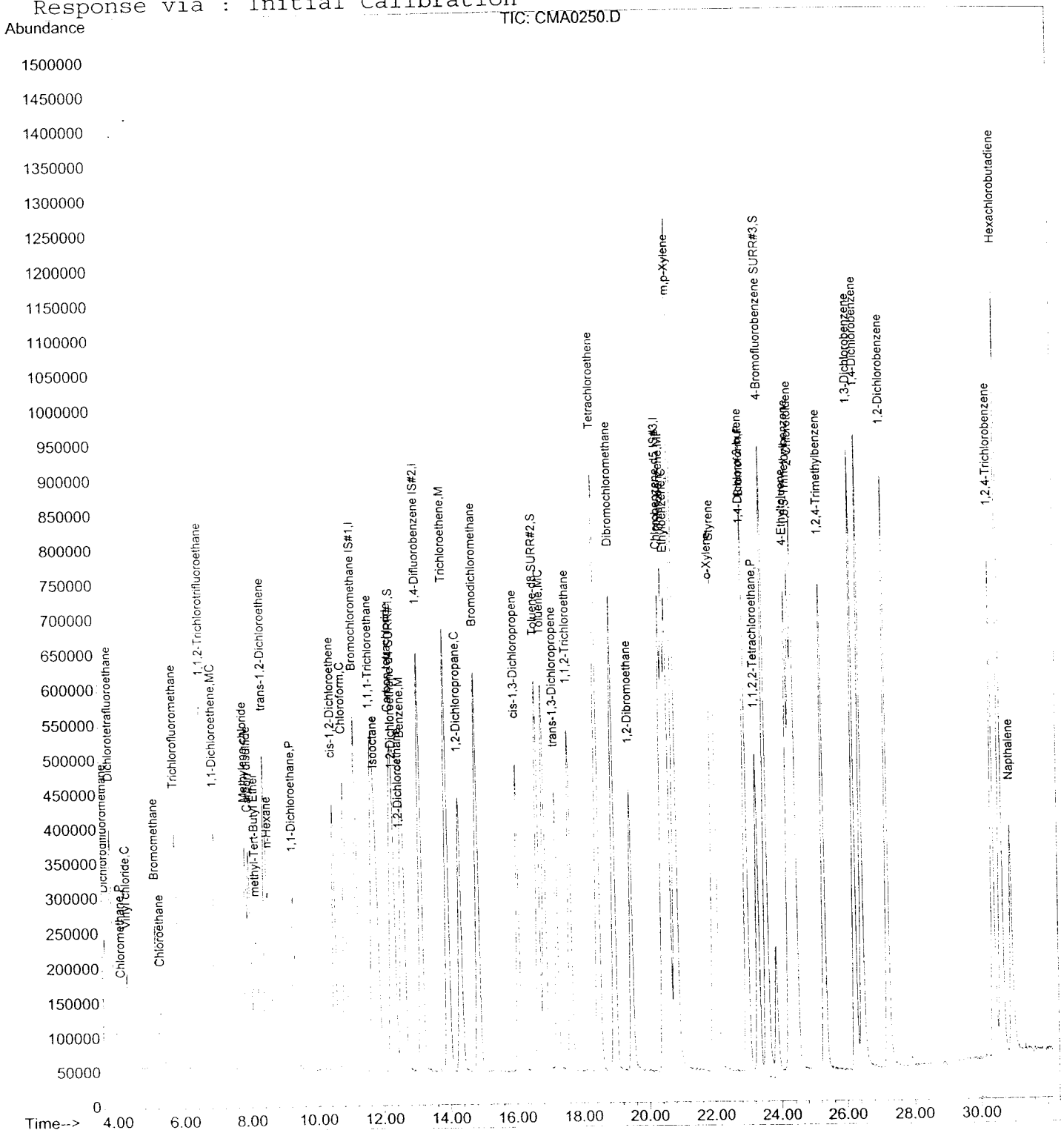
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
28)	Trichloroethene	13.94	130	762188	271.95 ng		91
29)	1,2-Dichloropropane	14.33	63	543402	254.95 ng		95
30)	Bromodichloromethane	14.85	83	1261319	223.88 ng		98
31)	cis-1,3-Dichloropropene	16.07	75	830908	243.56 ng		93
33)	Toluene	16.87	92	901436	268.61 ng	#	98
34)	trans-1,3-Dichloropropene	17.23	75	700875	242.54 ng		98
35)	1,1,2-Trichloroethane	17.63	97	548747	280.40 ng		96
37)	Tetrachloroethene	18.47	164	800889	270.51 ng		90
38)	Dibromochloromethane	18.97	127	987660	256.90 ng	#	95
39)	Chlorobenzene	20.54	112	1346673	272.61 ng		89
40)	Ethylbenzene	20.63	106	528978	261.73 ng		99
41)	m,p-Xylene	20.82	106	1393214	536.26 ng		95
42)	o-Xylene	21.97	106	655774	257.08 ng		97
43)	Styrene	22.04	104	1157257	264.56 ng		93
44)	Bromoform	22.99	173	1078465	288.49 ng		99
45)	1,1,2,2-Tetrachloroethane	23.32	83	845458	295.48 ng		98
47)	1,4-Dichloro-2-butene	22.96	75	182538	282.27 ng		90
48)	4-Ethyltoluene	24.25	105	1670484	248.34 ng		100
49)	1,3,5-Trimethylbenzene	24.36	105	1378412	275.09 ng		89
50)	2-Chlorotoluene	24.45	91	1723773	254.02 ng		97
51)	1,2,4-Trimethylbenzene	25.31	105	1410942	264.91 ng		98
52)	1,3-Dichlorobenzene	26.24	146	1225308	285.20 ng	#	91
53)	1,4-Dichlorobenzene	26.46	146	1274888	288.63 ng	#	93
54)	1,2-Dichlorobenzene	27.22	146	1179327	305.20 ng	#	91
55)	1,2,4-Trichlorobenzene	30.39	180	827261	346.52 ng		98
56)	Napthalene	30.93	128	978100	393.82 ng	#	91
57)	Hexachlorobutadiene	30.62	225	728010	337.88 ng		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\MARILYN\2M0709A\CMA0250.D Vial: 16
Acq On : 9 Jul 2002 1:34 pm Operator: BDH
Sample : 250ng/10uL/50ppb INITIAL CALIB. Inst : MARILYN
Misc : Pi/Pf=1 MA121ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 9 14:13 2002 Quant Results File: TO14S.RES

Method : D:\HPCHEM\1\METHODS\MARILYN\CRV070902 TO14\TO14S.M (RTE Inte
Title : TO14
Last Update : Mon Jul 29 14:17:31 2002
Response via : Initial Calibration



CMA0250.D TO14S.M Mon Jul 29 14:26:34 2002 Page 3

Quantitation Report

Data File : D:\HPCHEM\1\DATA\MARILYN\2M0709A\CMA0500.D Vial: 14
Acq On : 9 Jul 2002 2:10 pm Operator: BDH
Sample : 500ng/20uL/100ppb INITIAL CALIB. Inst : MARILYN
Misc : Pi/Pf=1 MA121ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 9 15:02 2002 Quant Results File: TO14S.RES

Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Tue Jul 09 14:15:24 2002
Response via : Initial Calibration
DataAcq Meth : TO14S
IS QA File : D:\HPCHEM\1\DATA02\M0709A\CMA0250.D (9 Jul 2002 13:34)

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) Bromochloromethane IS#1	11.22	128	448743	250.00	ng	0.02 98.74%
26) 1,4-Difluorobenzene IS#2	13.17	114	1798543	250.00	ng	0.02 99.14%
36) Chlorobenzene-d5 IS#3	20.45	117	1393730	250.00	ng	0.02 98.69%

System Monitoring Compounds

23) 1,2-Dichloroethane d4 SURR	12.36	65	478837	224.92	ng	0.00
Spiked Amount 250.000 Range 61 - 140 Recovery = 89.97%						
32) Toluene-d8 SURR#2	16.69	98	1392944	252.28	ng	0.00
Spiked Amount 250.000 Range 90 - 109 Recovery = 100.91%						
46) 4-Bromofluorobenzene SURR#	23.59	95	1171155	237.96	ng	0.02
Spiked Amount 250.000 Range 87 - 112 Recovery = 95.18%						

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.66	85	800226m	364.32	ng	# 99
3) Dichlorotetrafluoroethane	3.86	135	944456	392.80	ng	# 55
4) Chloromethane	4.14	50	557587	470.31	ng	93
5) Vinyl chloride	4.33	62	559296	440.51	ng	98
6) Bromomethane	5.18	94	890458	475.94	ng	# 98
7) Chloroethane	5.32	64	454795	495.16	ng	95
8) Trichlorofluoromethane	5.80	101	2214411	465.70	ng	99
9) 1,1,2-Trichlorotrifluoroet	6.61	151	1888802	540.17	ng	# 77
10) 1,1-Dichloroethene	6.97	96	927433	524.43	ng	90
12) Methylene chloride	7.88	49	1189672	513.93	ng	94
13) Carbon disulfide	7.99	76	2549537	508.22	ng	99
14) methyl-Tert-Butyl Ether	8.20	73	1728225	552.81	ng	96
15) trans-1,2-Dichloroethene	8.47	96	1068847	519.17	ng	92
16) n-Hexane	8.58	57	968363	539.12	ng	# 1
17) 1,1-Dichloroethane	9.31	63	1741866	496.19	ng	99
18) cis-1,2-Dichloroethene	10.54	61	1399060	494.05	ng	90
19) Chloroform	10.87	83	2131977	486.83	ng	97
20) Isooctane	11.83	57	3365532	569.94	ng	94
21) 1,1,1-Trichloroethane	11.72	97	1964836	476.66	ng	89
22) Carbon tetrachloride	12.30	117	2121668	491.62	ng	100
24) 1,2-Dichloroethane	12.56	62	1072993	476.64	ng	# 97
25) 1,2-Dibromoethane	19.49	107	1934208	566.25	ng	100
27) Benzene	12.64	78	2480022	532.08	ng	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\MARILYN\2M0709A\CMA0500.D Vial: 14
Acq On : 9 Jul 2002 2:10 pm Operator: BDH
Sample : 500ng/20uL/100ppb INITIAL CALIB. Inst : MARILYN
Misc : Pi/Pf=1 MA121ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 9 15:02 2002 Quant Results File: TO14S.RES

Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Tue Jul 09 14:15:24 2002
Response via : Initial Calibration
DataAcq Meth : TO14S

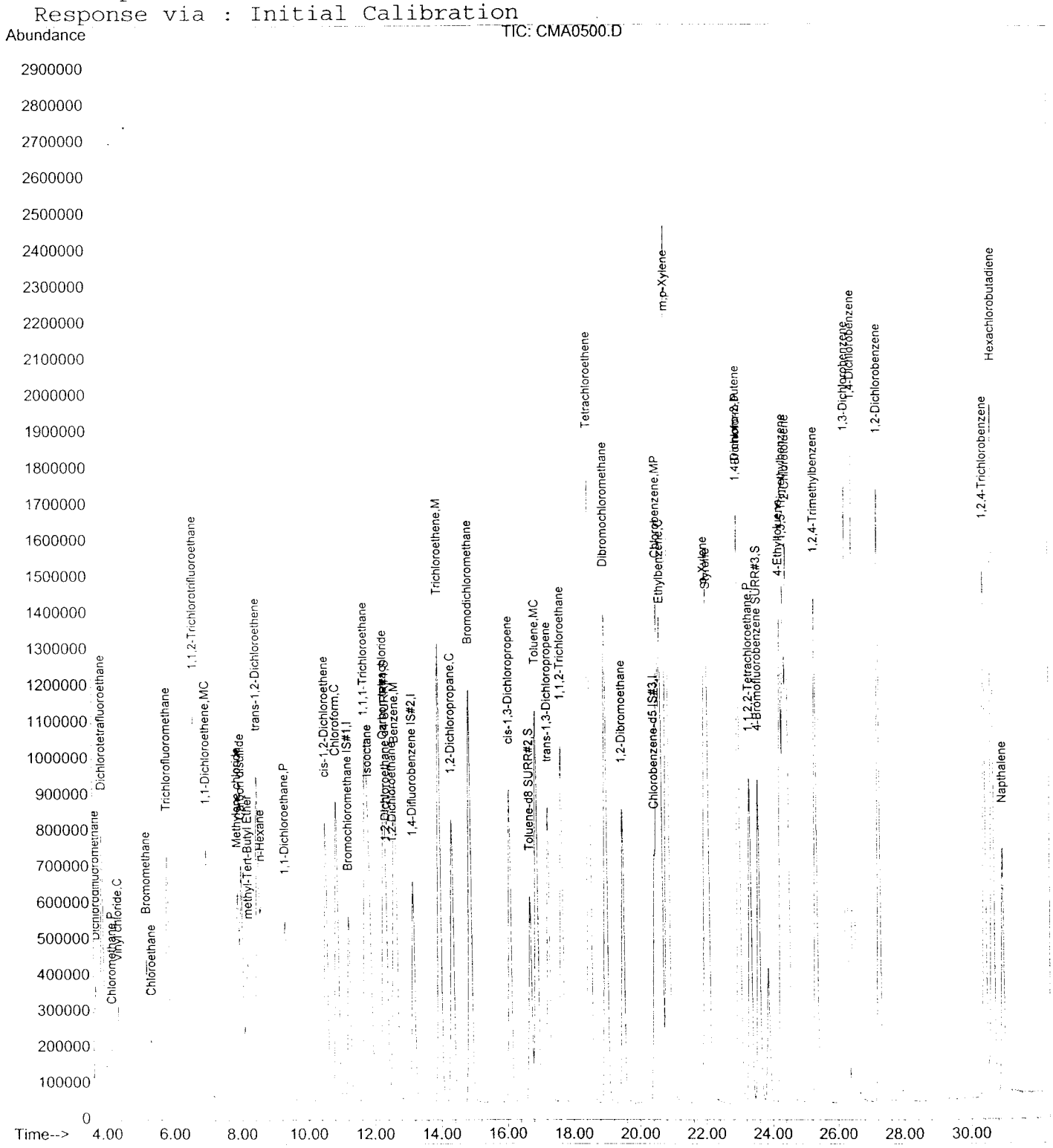
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
28)	Trichloroethene	13.96	130	1530413	557.94 ng		91
29)	1,2-Dichloropropane	14.33	63	1073791	538.61 ng		94
30)	Bromodichloromethane	14.87	83	2526591	509.23 ng		99
31)	cis-1,3-Dichloropropene	16.09	75	1665375	530.61 ng		94
33)	Toluene	16.89	92	1788695	552.92 ng	#	98
34)	trans-1,3-Dichloropropene	17.25	75	1413778	538.43 ng		97
35)	1,1,2-Trichloroethane	17.65	97	1095470	573.76 ng		97
37)	Tetrachloroethene	18.49	164	1577121	549.50 ng		91
38)	Dibromochloromethane	18.97	127	1978932	548.72 ng	#	95
39)	Chlorobenzene	20.54	112	2620457	548.39 ng		89
40)	Ethylbenzene	20.65	106	1029508	537.45 ng		99
41)	m,p-Xylene	20.84	106	2735751	1099.00 ng		95
42)	o-Xylene	21.99	106	1320586	547.54 ng		95
43)	Styrene	22.07	104	2295060	553.78 ng		94
44)	Bromoform	23.00	173	2215451	601.71 ng		99
45)	1,1,2,2-Tetrachloroethane	23.32	83	1723706	608.65 ng		99
47)	1,4-Dichloro-2-butene	22.98	75	382872	631.41 ng		91
48)	4-Ethyltoluene	24.26	105	3480214	566.51 ng		94
49)	1,3,5-Trimethylbenzene	24.36	105	2491350	523.11 ng	#	80
50)	2-Chlorotoluene	24.47	91	3382777	536.29 ng		96
51)	1,2,4-Trimethylbenzene	25.33	105	2811260	559.80 ng		97
52)	1,3-Dichlorobenzene	26.26	146	2445471	586.42 ng	#	91
53)	1,4-Dichlorobenzene	26.46	146	2562428	593.60 ng	#	92
54)	1,2-Dichlorobenzene	27.24	146	2301663	606.81 ng	#	93
55)	1,2,4-Trichlorobenzene	30.39	180	1641125	640.12 ng		99
56)	Napthalene	30.93	128	1982452	639.63 ng	#	91
57)	Hexachlorobutadiene	30.64	225	1296914	559.84 ng		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\MARILYN\2M0709A\CMA0500.D Vial: 14
Acq On : 9 Jul 2002 2:10 pm Operator: BDH
Sample : 500ng/20uL/100ppb INITIAL CALIB. Inst : MARILYN
Misc : Pi/Pf=1 MA121ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 9 15:02 2002 Quant Results File: TO14S.RES

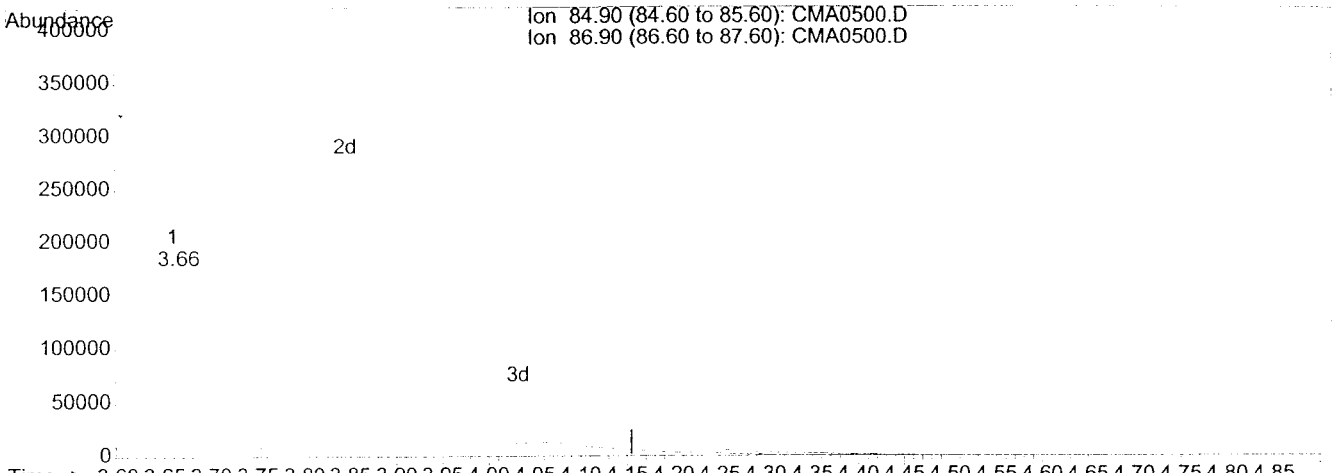
Method : D:\HPCHEM\1\METHODS\MARILYN\CRV070902 TO14\TO14S.M (RTE Inte
Title : TO14
Last Update : Mon Jul 29 14:17:31 2002
Response via : Initial Calibration

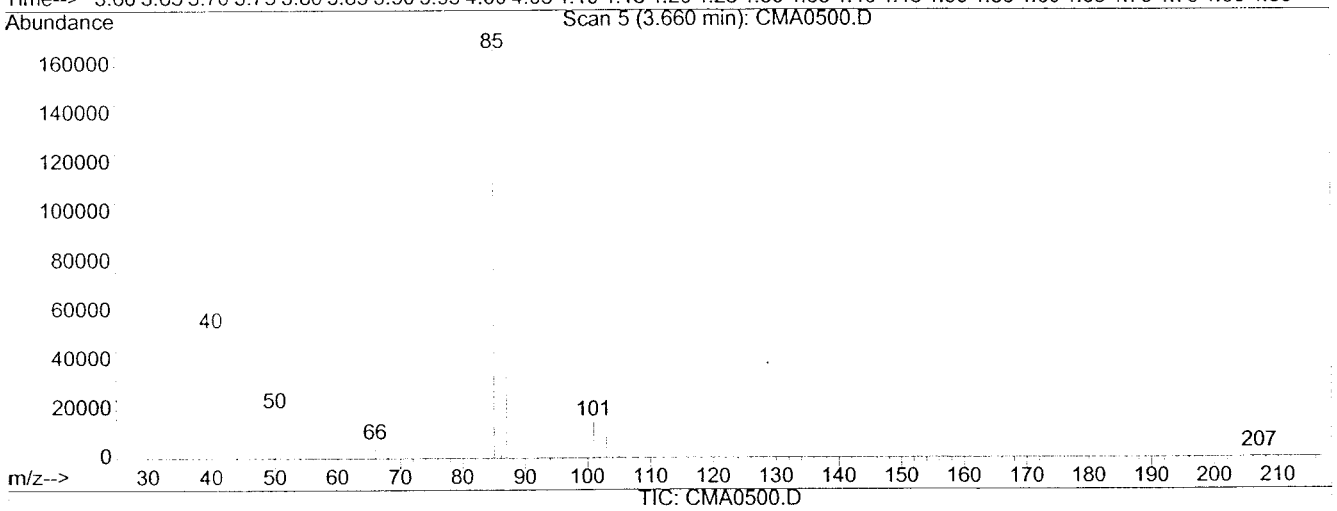


Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\MARILYN\2M0709A\CMA0500.D Vial: 14
Acq On : 9 Jul 2002 2:10 pm Operator: BDH
Sample : 500ng/20uL/100ppb INITIAL CALIB. Inst : MARILYN
Misc : Pi/Pf=1 MA121ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 9 15:02 2002 Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\MARILYN\CRV070902 TO14\TO14S.M (RTE In
Title : TO14
Last Update : Mon Jul 29 14:17:31 2002
Response via : Multiple Level Calibration





(2) Dichlorodifluoromethane

3.66min 364.32ng m

response 800226

Ion	Exp%	Act%
84.90	100	100
86.90	33.50	20.88#
0.00	0.00	0.00
0.00	0.00	0.00

CMA0500.D TO14S.M Mon Jul 29 14:29:00 2002

Quantitation Report

Data File : D:\HPCHEM\1\DATA\MARILYN\2M0709A\CMA1000.D Vial: 14
Acq On : 9 Jul 2002 3:12 pm Operator: BDH
Sample : 1000ng/40uL/200ppb INITIAL CALIB. Inst : MARILYN
Misc : Pi/Pf=1 MA121ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 9 15:49 2002 Quant Results File: TO14S.RES

Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Tue Jul 09 14:15:24 2002
Response via : Initial Calibration
DataAcq Meth : TO14S
IS QA File : D:\HPCHEM\1\DATA02\M0709A\CMA0250.D (9 Jul 2002 13:34)

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) Bromochloromethane IS#1	11.21	128	448649	250.00	ng	0.00 98.72%
26) 1,4-Difluorobenzene IS#2	13.15	114	1777402	250.00	ng	0.00 97.98%
36) Chlorobenzene-d5 IS#3	20.45	117	1394569	250.00	ng	0.02 98.75%

System Monitoring Compounds

23) 1,2-Dichloroethane d4 SURR	12.34	65	463357	217.69	ng	0.00
Spiked Amount 250.000 Range 61 - 140 Recovery = 87.08%						
32) Toluene-d8 SURR#2	16.69	98	1364883	250.13	ng	0.00
Spiked Amount 250.000 Range 90 - 109 Recovery = 100.05%						
46) 4-Bromofluorobenzene SURR#	23.59	95	1156426	234.82	ng	0.02
Spiked Amount 250.000 Range 87 - 112 Recovery = 93.93%						

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.65	85	1437249m	654.47	ng	# 99
3) Dichlorotetrafluoroethane	3.83	135	1575902	655.55	ng	# 54
4) Chloromethane	4.13	50	959254	809.27	ng	94
5) Vinyl chloride	4.30	62	1089046	857.94	ng	96
6) Bromomethane	5.15	94	1630758	871.80	ng	# 98
7) Chloroethane	5.28	64	819387	892.30	ng	96
8) Trichlorofluoromethane	5.76	101	4121261	866.91	ng	100
9) 1,1,2-Trichlorotrifluoroet	6.58	151	3502827	1001.96	ng	# 76
10) 1,1-Dichloroethene	6.94	96	1715847	970.46	ng	88
12) Methylene chloride	7.85	49	2225799	961.73	ng	94
13) Carbon disulfide	7.96	76	4708309	938.75	ng	99
14) methyl-Tert-Butyl Ether	8.17	73	3316423	1061.06	ng	96
15) trans-1,2-Dichloroethene	8.44	96	2013464	978.20	ng	91
16) n-Hexane	8.55	57	1788317	995.82	ng	# 1
17) 1,1-Dichloroethane	9.28	63	3254863	927.39	ng	99
18) cis-1,2-Dichloroethene	10.51	61	2649019	935.64	ng	90
19) Chloroform	10.84	83	4034777	921.53	ng	98
20) Isooctane	11.80	57	6321740	1070.79	ng	94
21) 1,1,1-Trichloroethane	11.71	97	3714244	901.24	ng	89
22) Carbon tetrachloride	12.27	117	3949003	915.23	ng	100
24) 1,2-Dichloroethane	12.55	62	2064598	917.32	ng	# 96
25) 1,2-Dibromoethane	19.49	107	3769865	1103.87	ng	99
27) Benzene	12.61	78	4616814	1002.31	ng	98

(#) = qualifier out of range (m) = manual integration
CMA1000.D TO14S.M Mon Jul 29 14:26:59 2002 Page 1

Quantitation Report

Data File : D:\HPCHEM\1\DATA\MARILYN\2M0709A\CMA1000.D Vial: 14
Acq On : 9 Jul 2002 3:12 pm Operator: BDH
Sample : 1000ng/40uL/200ppb INITIAL CALIB. Inst : MARILYN
Misc : Pi/Pf=1 MA121ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 9 15:49 2002 Quant Results File: TO14S.RES

Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Tue Jul 09 14:15:24 2002
Response via : Initial Calibration
DataAcq Meth : TO14S

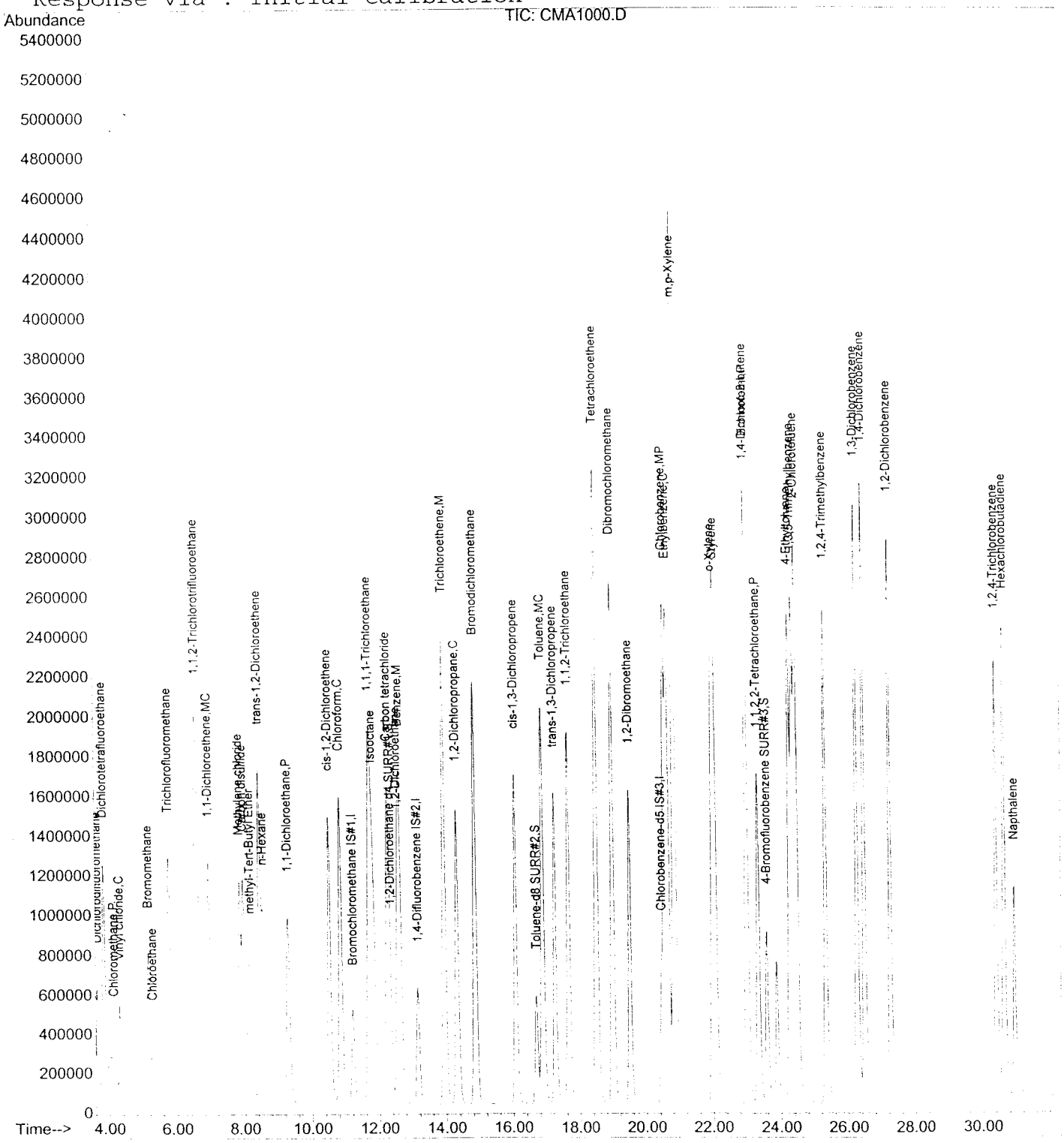
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
28)	Trichloroethene	13.94	130	2870885	1059.08 ng		91
29)	1,2-Dichloropropane	14.32	63	2026799	1028.72 ng		93
30)	Bromodichloromethane	14.86	83	4763535	971.50 ng		98
31)	cis-1,3-Dichloropropene	16.07	75	3163035	1019.76 ng		93
33)	Toluene	16.88	92	3342785	1045.61 ng	#	97
34)	trans-1,3-Dichloropropene	17.24	75	2712220	1045.23 ng		96
35)	1,1,2-Trichloroethane	17.66	97	2107155	1116.77 ng		96
37)	Tetrachloroethene	18.49	164	2972745	1035.14 ng		90
38)	Dibromochloromethane	18.98	127	3799391	1052.87 ng	#	94
39)	Chlorobenzene	20.54	112	4941702	1033.54 ng		89
40)	Ethylbenzene	20.64	106	1954957	1019.96 ng		96
41)	m,p-Xylene	20.84	106	5132812	2060.70 ng		94
42)	o-Xylene	21.99	106	2488551	1031.18 ng		92
43)	Styrene	22.07	104	4330414	1044.26 ng		93
44)	Bromoform	23.00	173	4177832	1134.00 ng		99
45)	1,1,2,2-Tetrachloroethane	23.32	83	3227456	1138.94 ng		98
47)	1,4-Dichloro-2-butene	22.98	75	760202	1252.93 ng		89
48)	4-Ethyltoluene	24.27	105	6190816	1007.14 ng		93
49)	1,3,5-Trimethylbenzene	24.36	105	4640666	973.82 ng	#	81
50)	2-Chlorotoluene	24.47	91	6110262	968.11 ng		95
51)	1,2,4-Trimethylbenzene	25.33	105	4928051	980.72 ng		96
52)	1,3-Dichlorobenzene	26.26	146	4221997	1011.83 ng	#	92
53)	1,4-Dichlorobenzene	26.48	146	4438136	1027.50 ng	#	92
54)	1,2-Dichlorobenzene	27.24	146	3823941	1007.54 ng	#	92
55)	1,2,4-Trichlorobenzene	30.39	180	2492770	971.73 ng		98
56)	Napthalene	30.93	128	3054341	984.88 ng	#	92
57)	Hexachlorobutadiene	30.64	225	1595613	688.37 ng		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\MARILYN\2M0709A\CMA1000.D Vial: 14
Acq On : 9 Jul 2002 3:12 pm Operator: BDH
Sample : 1000ng/40uL/200ppb INITIAL CALIB. Inst : MARILYN
Misc : Pi/Pf=1 MA121ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 9 15:49 2002 Quant Results File: TO14S.RES

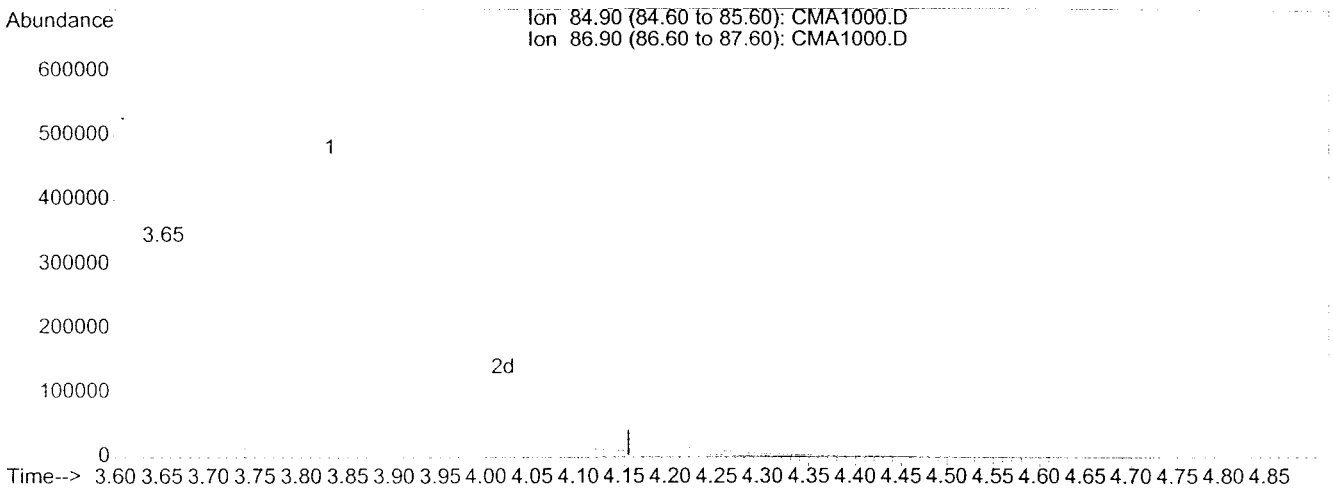
Method : D:\HPCHEM\1\METHODS\MARILYN\CRV070902 TO14\TO14S.M (RTE Inte
Title : TO14
Last Update : Mon Jul 29 14:17:31 2002
Response via : Initial Calibration

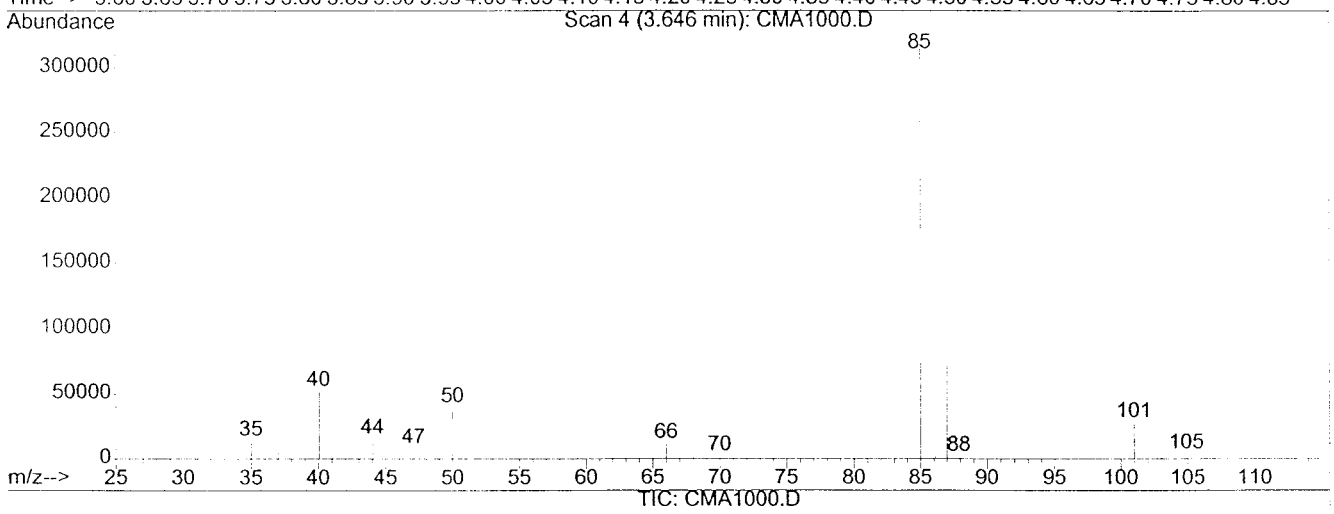


Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\MARILYN\2M0709A\CMA1000.D Vial: 14
Acq On : 9 Jul 2002 3:12 pm Operator: BDH
Sample : 1000ng/40uL/200ppb INITIAL CALIB. Inst : MARILYN
Misc : Pi/Pf=1 MA121ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 9 15:49 2002 Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\MARILYN\CRV070902 TO14\TO14S.M (RTE In
Title : TO14
Last Update : Mon Jul 29 14:17:31 2002
Response via : Multiple Level Calibration





(2) Dichlorodifluoromethane

3.65min 654.47ng m

response 1437249

Ion	Exp%	Act%
84.90	100	100
86.90	33.50	47.81#
0.00	0.00	0.00
0.00	0.00	0.00

CMA1000.D TO14S.M Mon Jul 29 14:29:25 2002

Quantitation Report

Data File : D:\HPCHEM\1\DATA\MARILYN\2M0709A\CMA1500.D Vial: 14
Acq On : 9 Jul 2002 4:12 pm Operator: BDH
Sample : 1500ng/60uL/300ppb INITIAL CALIB. Inst : MARILYN
Misc : Pi/Pf=1 MA121ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 9 16:47 2002 Quant Results File: TO14S.RES

Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Tue Jul 09 14:15:24 2002
Response via : Initial Calibration
DataAcq Meth : TO14S
IS QA File : D:\HPCHEM\1\DATA02\M0709A\CMA0250.D (9 Jul 2002 13:34)

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) Bromochloromethane IS#1	11.20	128	435103	250.00 ng	0.00 95.74%
26) 1,4-Difluorobenzene IS#2	13.13	114	1811111	250.00 ng	-0.02 99.84%
36) Chlorobenzene-d5 IS#3	20.43	117	1357600	250.00 ng	0.00 96.13%

System Monitoring Compounds

23) 1,2-Dichloroethane d4 SURR	12.34	65	469781	227.58 ng	-0.02
Spiked Amount 250.000 Range 61 - 140 Recovery = 91.03%					
32) Toluene-d8 SURR#2	16.69	98	1384354	248.98 ng	0.00
Spiked Amount 250.000 Range 90 - 109 Recovery = 99.59%					
46) 4-Bromofluorobenzene SURR#	23.58	95	1101391	229.74 ng	0.02
Spiked Amount 250.000 Range 87 - 112 Recovery = 91.90%					

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.64	85	1953947m	917.45 ng	#	99
3) Dichlorotetrafluoroethane	3.83	135	2040692	875.32 ng	#	55
4) Chloromethane	4.12	50	1436739	1249.84 ng		93
5) Vinyl chloride	4.29	62	1561536	1268.46 ng		98
6) Bromomethane	5.15	94	2319886	1278.81 ng	#	99
7) Chloroethane	5.27	64	1228572	1379.55 ng	#	89
8) Trichlorofluoromethane	5.75	101	6101912	1323.50 ng		99
9) 1,1,2-Trichlorotrifluoroet	6.56	151	5382826	1587.66 ng	#	76
10) 1,1-Dichloroethene	6.93	96	2553820	1489.37 ng		89
12) Methylene chloride	7.85	49	3299667	1470.11 ng		94
13) Carbon disulfide	7.96	76	6979266	1434.85 ng		99
14) methyl-Tert-Butyl Ether	8.16	73	5323100	1756.10 ng		96
15) trans-1,2-Dichloroethene	8.44	96	3089735	1547.81 ng		91
16) n-Hexane	8.55	57	2743776	1575.43 ng	#	1
17) 1,1-Dichloroethane	9.28	63	5082881	1493.32 ng		99
18) cis-1,2-Dichloroethene	10.50	61	4089262	1489.30 ng		90
19) Chloroform	10.83	83	6214416	1463.54 ng		97
20) Isooctane	11.79	57	9463976	1652.94 ng		94
21) 1,1,1-Trichloroethane	11.68	97	5711179	1428.93 ng		89
22) Carbon tetrachloride	12.26	117	6125375	1463.83 ng		100
24) 1,2-Dichloroethane	12.54	62	3230412	1479.98 ng	#	97
25) 1,2-Dibromoethane	19.48	107	5860122	1769.36 ng		99
27) Benzene	12.62	78	7157505	1524.97 ng		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\MARILYN\2M0709A\CMA1500.D Vial: 14
Acq On : 9 Jul 2002 4:12 pm Operator: BDH
Sample : 1500ng/60uL/300ppb INITIAL CALIB. Inst : MARILYN
Misc : Pi/Pf=1 MA121ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 9 16:47 2002 Quant Results File: TO14S.RES

Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Tue Jul 09 14:15:24 2002
Response via : Initial Calibration
DataAcq Meth : TO14S

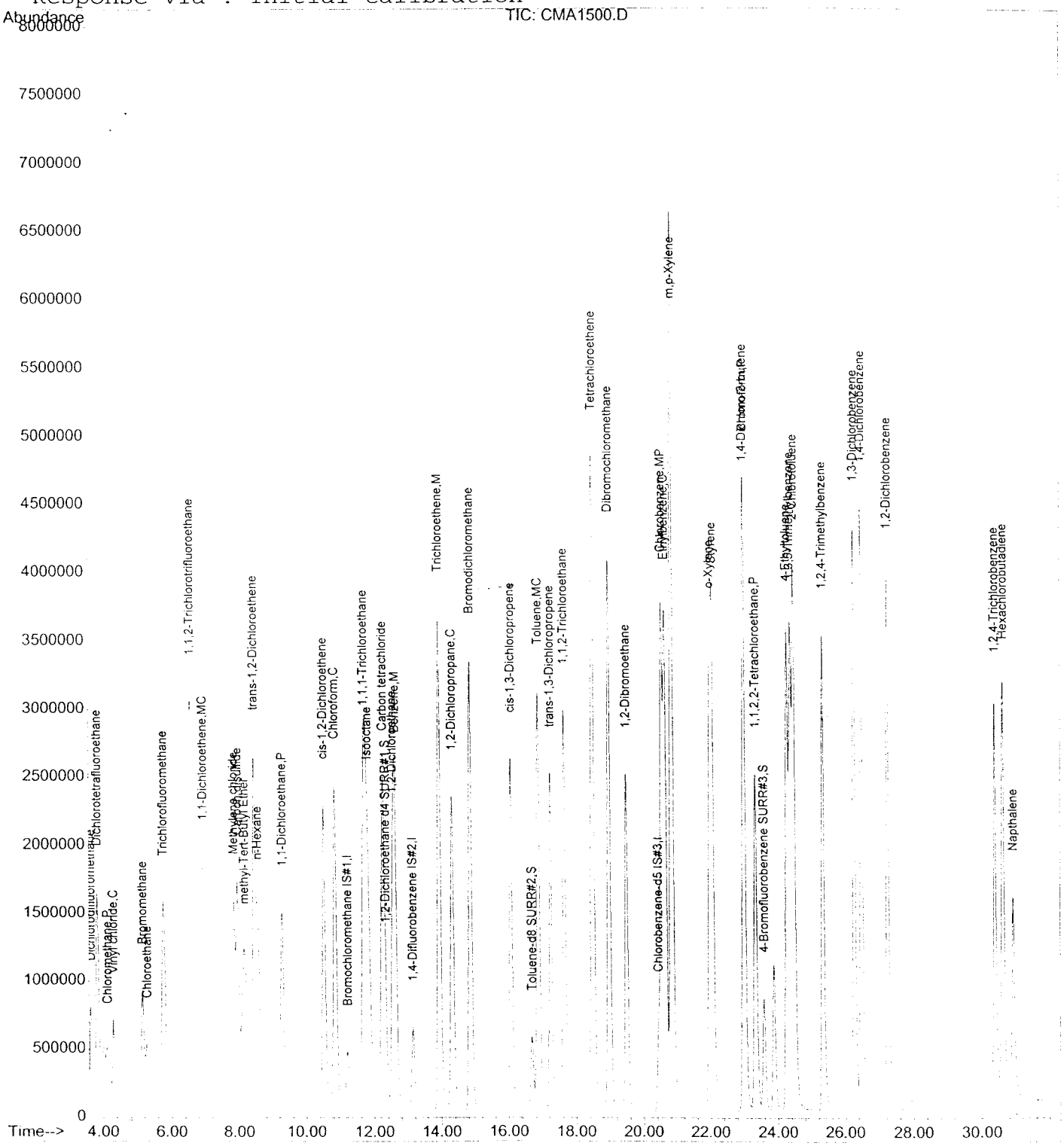
Compound	R.T.	QIon	Response	Conc Unit		Qvalue
28) Trichloroethene	13.92	130	4458959	1614.31 ng		91
29) 1,2-Dichloropropane	14.31	63	3162716	1575.39 ng		93
30) Bromodichloromethane	14.85	83	7399402	1480.98 ng		99
31) cis-1,3-Dichloropropene	16.06	75	4926312	1558.68 ng		93
33) Toluene	16.87	92	5133500	1575.85 ng	#	97
34) trans-1,3-Dichloropropene	17.23	75	4262904	1612.25 ng		96
35) 1,1,2-Trichloroethane	17.63	97	3299207	1716.00 ng		97
37) Tetrachloroethene	18.49	164	4535562	1622.34 ng		90
38) Dibromochloromethane	18.97	127	5865372	1669.64 ng	#	94
39) Chlorobenzene	20.54	112	7372901	1584.00 ng		89
40) Ethylbenzene	20.63	106	2888945	1548.29 ng		99
41) m,p-Xylene	20.83	106	7492047	3089.78 ng		93
42) o-Xylene	21.98	106	3597132	1531.14 ng		94
43) Styrene	22.06	104	6282190	1556.17 ng		93
44) Bromoform	22.99	173	6278130	1750.49 ng		99
45) 1,1,2,2-Tetrachloroethane	23.33	83	4799854	1739.95 ng		98
47) 1,4-Dichloro-2-butene	22.98	75	1133888	1919.71 ng		90
48) 4-Ethyltoluene	24.27	105	8668320	1448.59 ng		100
49) 1,3,5-Trimethylbenzene	24.36	105	6654621	1434.46 ng		89
50) 2-Chlorotoluene	24.47	91	8695121	1415.17 ng		95
51) 1,2,4-Trimethylbenzene	25.32	105	6953234	1421.43 ng		98
52) 1,3-Dichlorobenzene	26.25	146	5951218	1465.08 ng	#	92
53) 1,4-Dichlorobenzene	26.47	146	6304205	1499.27 ng	#	92
54) 1,2-Dichlorobenzene	27.23	146	5400049	1461.56 ng	#	92
55) 1,2,4-Trichlorobenzene	30.37	180	3323771	1330.95 ng		98
56) Napthalene	30.91	128	4234806	1402.71 ng	#	92
57) Hexachlorobutadiene	30.62	225	2122794	940.74 ng		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\MARILYN\2M0709A\CMA1500.D Vial: 14
Acq On : 9 Jul 2002 4:12 pm Operator: BDH
Sample : 1500ng/60uL/300ppb INITIAL CALIB. Inst : MARILYN
Misc : Pi/Pf=1 MA121ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 9 16:47 2002 Quant Results File: TO14S.RES

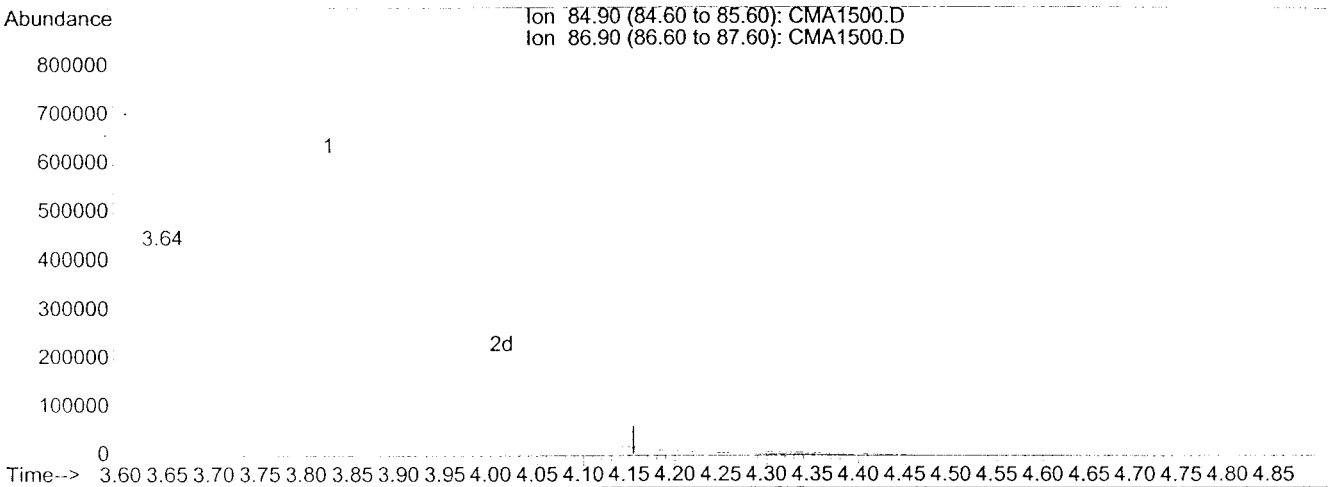
Method : D:\HPCHEM\1\METHODS\MARILYN\CRV070902 TO14\TO14S.M (RTE Inte
Title : TO14
Last Update : Mon Jul 29 14:17:31 2002
Response via : Initial Calibration

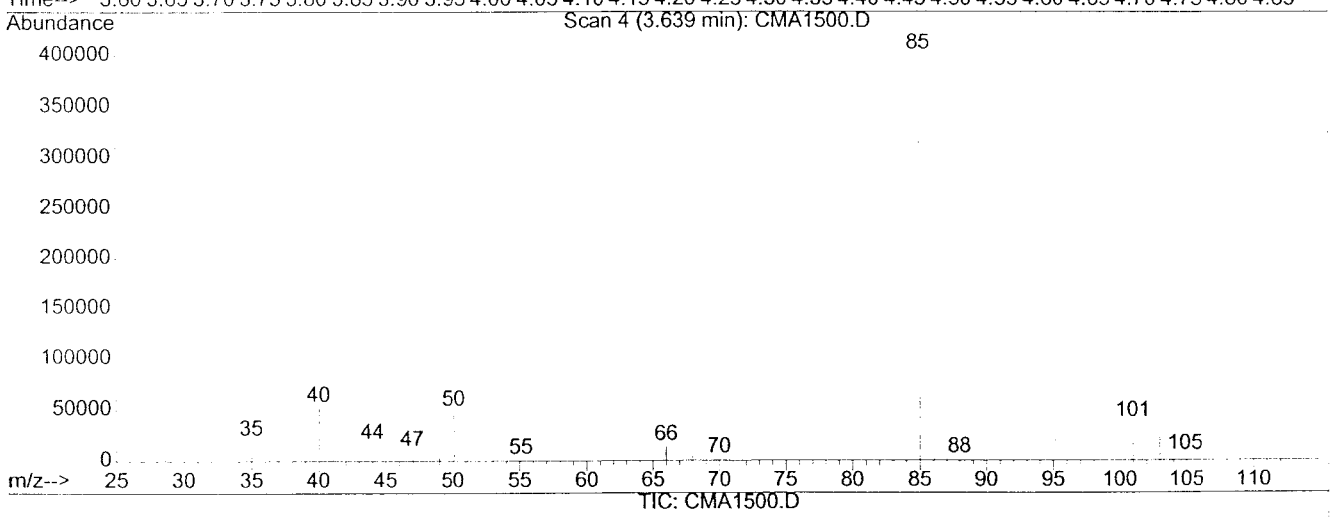


Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\MARILYN\2M0709A\CMA1500.D Vial: 14
Acq On : 9 Jul 2002 4:12 pm Operator: BDH
Sample : 1500ng/60uL/300ppb INITIAL CALIB. Inst : MARILYN
Misc : Pi/Pf=1 MA121ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 9 16:47 2002 Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\MARILYN\CRV070902 TO14\TO14S.M (RTE In
Title : TO14
Last Update : Mon Jul 29 14:17:31 2002
Response via : Multiple Level Calibration





(2) Dichlorodifluoromethane

3.64min 917.45ng m

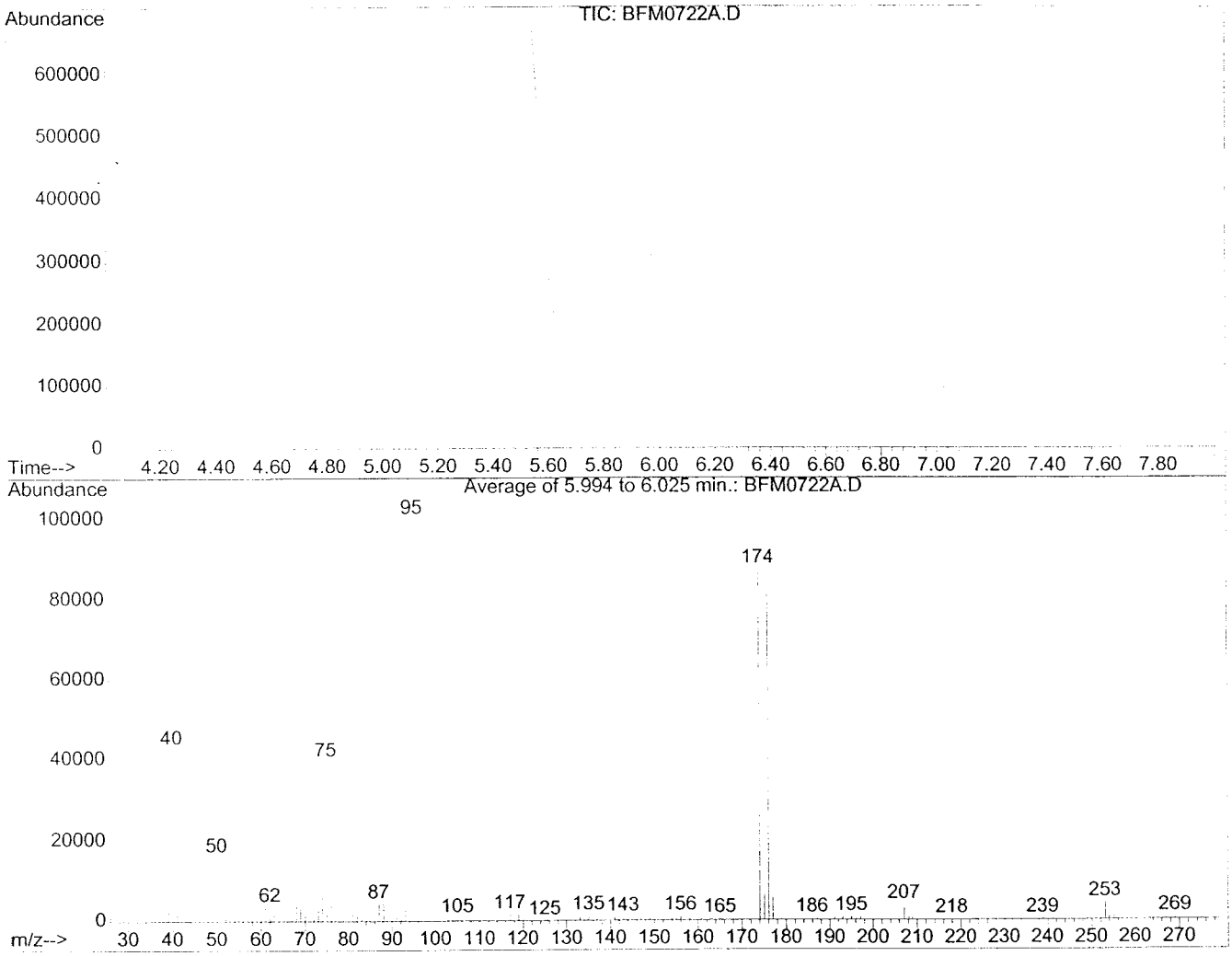
response 1953947

Ion	Exp%	Act%
84.90	100	100
86.90	33.50	43.53#
0.00	0.00	0.00
0.00	0.00	0.00

CMA1500.D TO14S.M Mon Jul 29 14:29:43 2002

BFB

Data File : D:\HPCHEM\1\DATA\MARILYN\2M0722A\BFM0722A.D Vial: 13
Acq On : 22 Jul 2002 8:58 am Operator: BDH
Sample : BFB050\ DAILY 12 HOUR BFB TUNE CHECK Inst : MARILYN
Misc : Pi/Pf=1 MA126ABK 250ng Multiplr: 1.00
MS Integration Params: rteint.p
Method : D:\HPCHEM\1\METHODS\MARILYN\CRV070902 TO14\TO14S.M (RTE Integr
Title : TO14



Spectrum Information: Average of 5.994 to 6.025 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.0	15984	PASS
75	95	30	60	39.4	39404	PASS
95	95	100	100	100.0	100000	PASS
96	95	5	9	7.2	7194	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	87.4	87406	PASS
175	174	5	9	7.5	6545	PASS
176	174	95	101	95.4	83362	PASS
177	176	5	9	6.9	5759	PASS

BFM0722A.D TO14S.M Mon Jul 29 14:34:36 2002

Quantitation Report

Data File : D:\HPCHEM\1\DATA02\M0722A\CM0722A.D Vial: 14
Acq On : 22 Jul 2002 9:57 Operator: BDH
Sample : VSTD050\ DAILY CALIBRATION CHECK Inst : MARILYN
Misc : Pi/Pf=1 MA126ABK 250ng Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 22 10:42 2002 Quant Results File: TO14S.RES

Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Jul 22 10:35:55 2002
Response via : Initial Calibration
DataAcq Meth : TO14S
IS QA File : D:\HPCHEM\1\DATA02\M0722A\CM0722A.D (22 Jul 2002 9:57)

BH 7/22/02 passes

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) Bromochloromethane IS#1	11.16	128	402030	250.00	ng	0.00 100.00%
26) 1,4-Difluorobenzene IS#2	13.10	114	1628885	250.00	ng	0.00 100.00%
36) Chlorobenzene-d5 IS#3	20.38	117	1233699	250.00	ng	0.00 100.00%

System Monitoring Compounds

23) 1,2-Dichloroethane d4 SURR	12.31	65	425014m	251.80	ng	0.00
Spiked Amount 250.000 Range 61 - 140 Recovery = 100.72%						
32) Toluene-d8 SURR#2	16.64	98	1225122	244.00	ng	0.00
Spiked Amount 250.000 Range 90 - 109 Recovery = 97.60%						
46) 4-Bromofluorobenzene SURR#	23.51	95	1030101	251.13	ng	0.02
Spiked Amount 250.000 Range 87 - 112 Recovery = 100.45%						

Target Compounds

							Qvalue
2) Dichlorodifluoromethane	3.60	85	451963	335.58	ng		99
3) Dichlorotetrafluoroethane	3.80	135	525700m	338.24	ng	#	53
4) Chloromethane	4.08	50	212711	237.20	ng	#	94
5) Vinyl chloride	4.27	62	248377	254.29	ng		97
6) Bromomethane	5.12	94	362366	238.40	ng	#	97
7) Chloroethane	5.26	64	176969	239.26	ng		96
8) Trichlorofluoromethane	5.73	101	970286	264.39	ng		97
9) 1,1,2-Trichlorotrifluoroet	6.54	151	821179	260.84	ng	#	77
10) 1,1-Dichloroethene	6.91	96	398351	259.16	ng		88
12) Methylene chloride	7.82	49	463211	234.56	ng		92
13) Carbon disulfide	7.92	76	1085555	255.10	ng		100
14) methyl-Tert-Butyl Ether	8.12	73	788349	263.79	ng		98
15) trans-1,2-Dichloroethene	8.41	96	455631	253.86	ng		91
16) n-Hexane	8.52	57	425339	264.57	ng	#	1
17) 1,1-Dichloroethane	9.25	63	745841	252.72	ng		99
18) cis-1,2-Dichloroethene	10.48	61	594754	252.11	ng		90
19) Chloroform	10.80	83	935867	258.80	ng		98
20) Isooctane	11.77	57	1465719	266.05	ng		94
21) 1,1,1-Trichloroethane	11.66	97	868239	260.77	ng		90
22) Carbon tetrachloride	12.23	117	932990	261.60	ng		100
24) 1,2-Dichloroethane	12.50	62	469772	258.84	ng	#	96
25) 1,2-Dibromoethane	19.43	107	871463	263.85	ng		98
27) Benzene	12.57	78	1080721	255.01	ng		96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA02\M0722A\CM0722A.D Vial: 14
Acq On : 22 Jul 2002 9:57 Operator: BDH
Sample : VSTD050\ DAILY CALIBRATION CHECK Inst : MARILYN
Misc : Pi/Pf=1 MA126ABK 250ng Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 22 10:42 2002 Quant Results File: TO14S.RES

Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Jul 22 10:35:55 2002
Response via : Initial Calibration
DataAcq Meth : TO14S

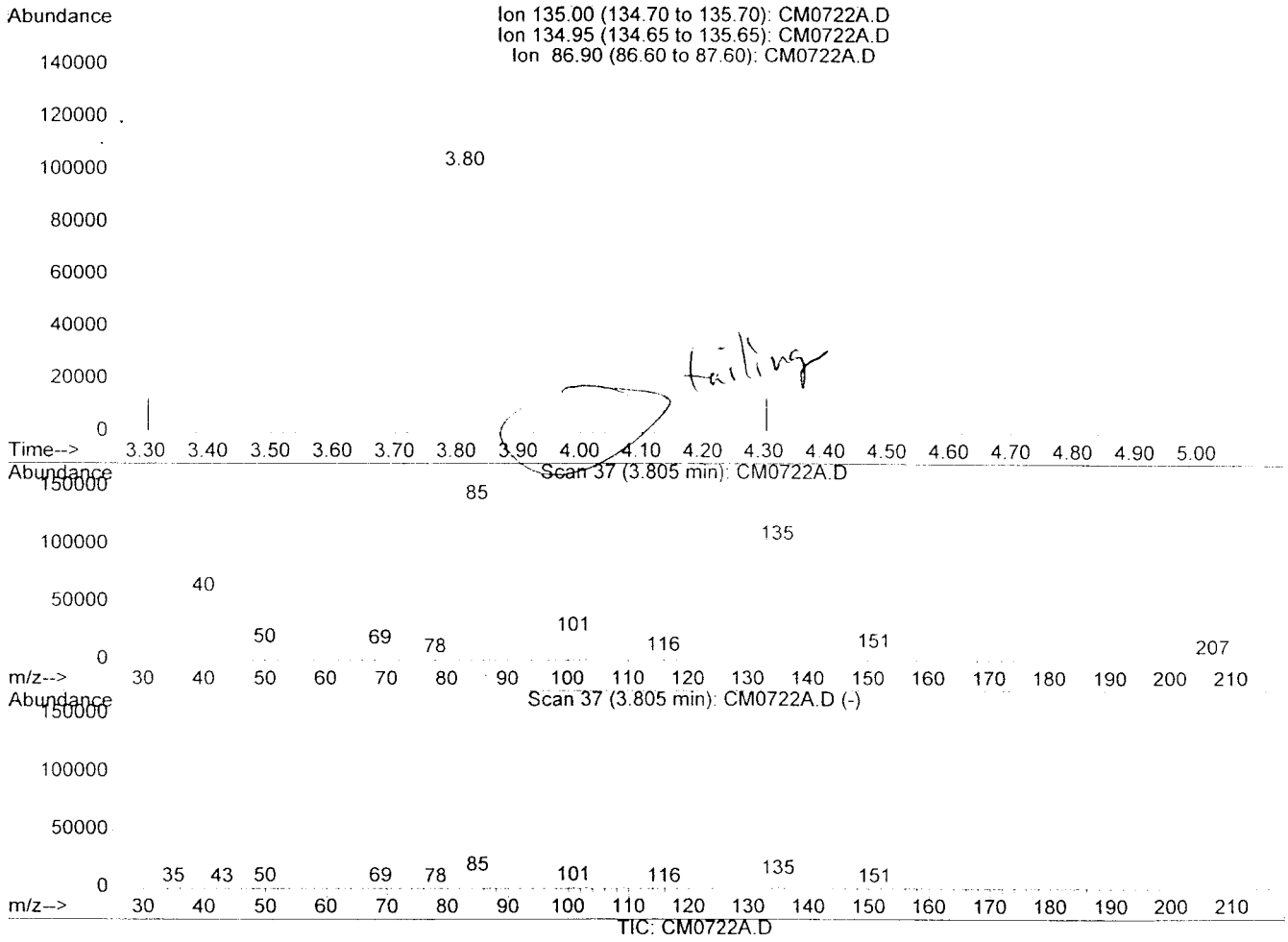
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
28)	Trichloroethene	13.89	130	665419	256.07 ng		90
29)	1,2-Dichloropropane	14.28	63	459577	252.06 ng		94
30)	Bromodichloromethane	14.81	83	1101131	255.44 ng		99
31)	cis-1,3-Dichloropropene	16.02	75	713760	251.78 ng		92
33)	Toluene	16.83	92	745399	245.69 ng	#	98
34)	trans-1,3-Dichloropropene	17.20	75	603966	252.25 ng		97
35)	1,1,2-Trichloroethane	17.60	97	488958	257.19 ng		96
37)	Tetrachloroethene	18.44	164	690913	261.08 ng		90
38)	Dibromochloromethane	18.92	127	876333	262.05 ng	#	94
39)	Chlorobenzene	20.49	112	1094503	249.29 ng		89
40)	Ethylbenzene	20.58	106	435272	251.17 ng		94
41)	m,p-Xylene	20.78	106	1142363	502.90 ng		93
42)	o-Xylene	21.92	106	524463	239.44 ng		99
43)	Styrene	22.01	104	946775	250.97 ng		93
44)	Bromoform	22.94	173	1017877	276.80 ng		99
45)	1,1,2,2-Tetrachloroethane	23.27	83	779796	268.31 ng		99
47)	1,4-Dichloro-2-butene	22.92	75	170762	277.56 ng		89
48)	4-Ethyltoluene	24.20	105	1450084	261.36 ng		93
49)	1,3,5-Trimethylbenzene	24.31	105	1164723	264.07 ng		92
50)	2-Chlorotoluene	24.41	91	1381168	245.66 ng		96
51)	1,2,4-Trimethylbenzene	25.27	105	1143546	250.10 ng		98
52)	1,3-Dichlorobenzene	26.20	146	989403	252.37 ng	#	92
53)	1,4-Dichlorobenzene	26.42	146	1009202	246.00 ng	#	93
54)	1,2-Dichlorobenzene	27.18	146	944649	258.02 ng	#	92
55)	1,2,4-Trichlorobenzene	30.33	180	698711	263.47 ng		99
56)	Napthalene	30.85	128	873551	268.35 ng	#	91
57)	Hexachlorobutadiene	30.56	225	600632	252.02 ng		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA02\M0722A\CM0722A.D Vial: 14
Acq On : 22 Jul 2002 9:57 Operator: BDH
Sample : VSTD050\ DAILY CALIBRATION CHECK Inst : MARILYN
Misc : Pi/Pf=1 MA126ABK 250ng Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 22 10:39 2002 Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Jul 22 10:35:55 2002
Response via : Multiple Level Calibration



(3) Dichlorotetrafluoroethane

before

3.80min 356.24ng

response 553671

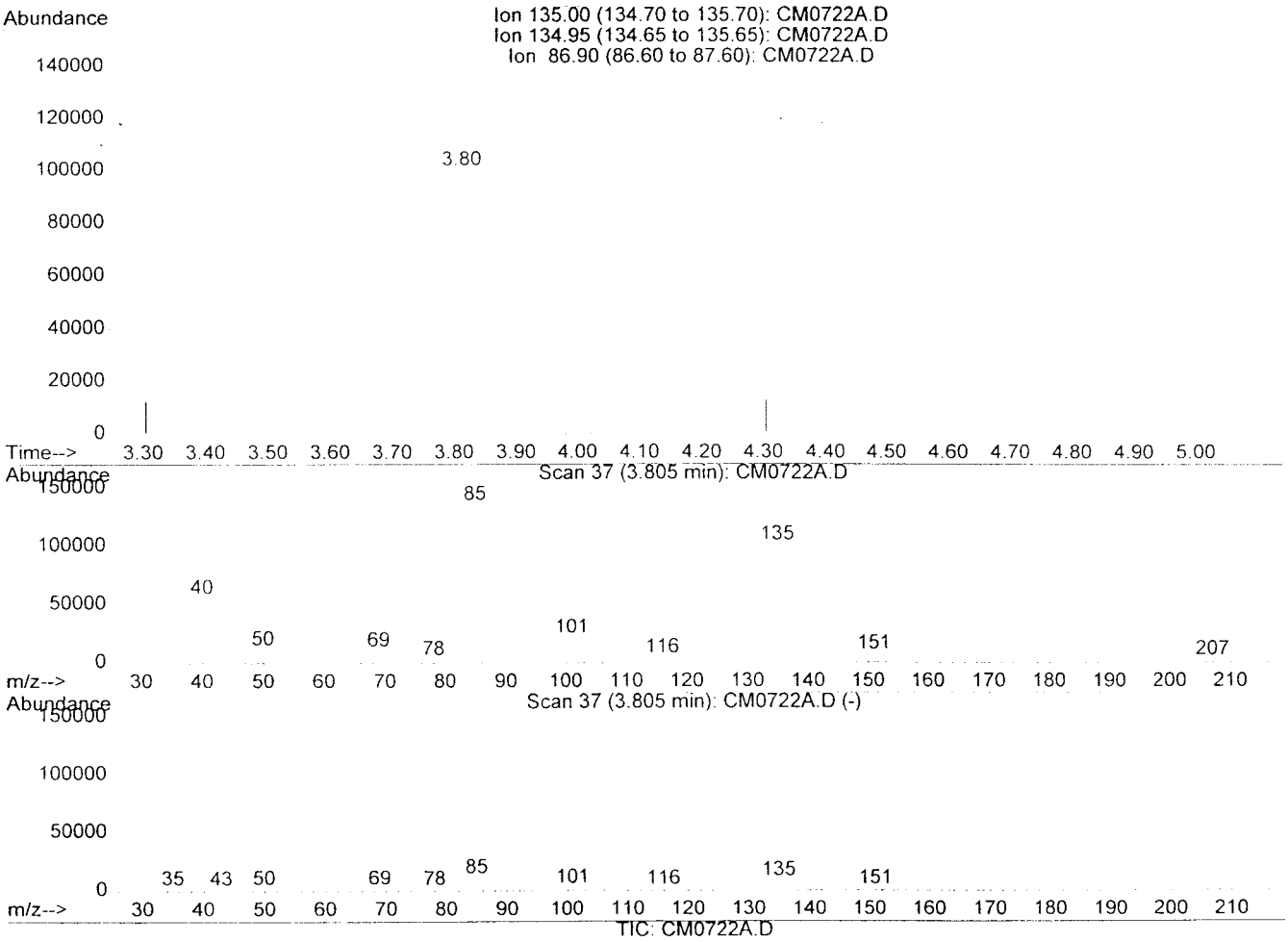
Ion	Exp%	Act%
135.00	100	100
134.95	56.30	100.00#
86.90	32.70	46.33#
0.00	0.00	0.00

CM0722A.D TO14S.M Mon Jul 22 10:42:09 2002

Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA02\M0722A\CM0722A.D Vial: 14
Acq On : 22 Jul 2002 9:57 Operator: BDH
Sample : VSTD050\ DAILY CALIBRATION CHECK Inst : MARILYN
Misc : Pi/Pf=1 MA126ABK 250ng Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 22 10:42 2002 Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Jul 22 10:35:55 2002
Response via : Multiple Level Calibration



(3) Dichlorotetrafluoroethane

3.80min 338.24ng m

response 525700

Ion	Exp%	Act%
135.00	100	100
134.95	56.30	105.32#
86.90	32.70	48.79#
0.00	0.00	0.00

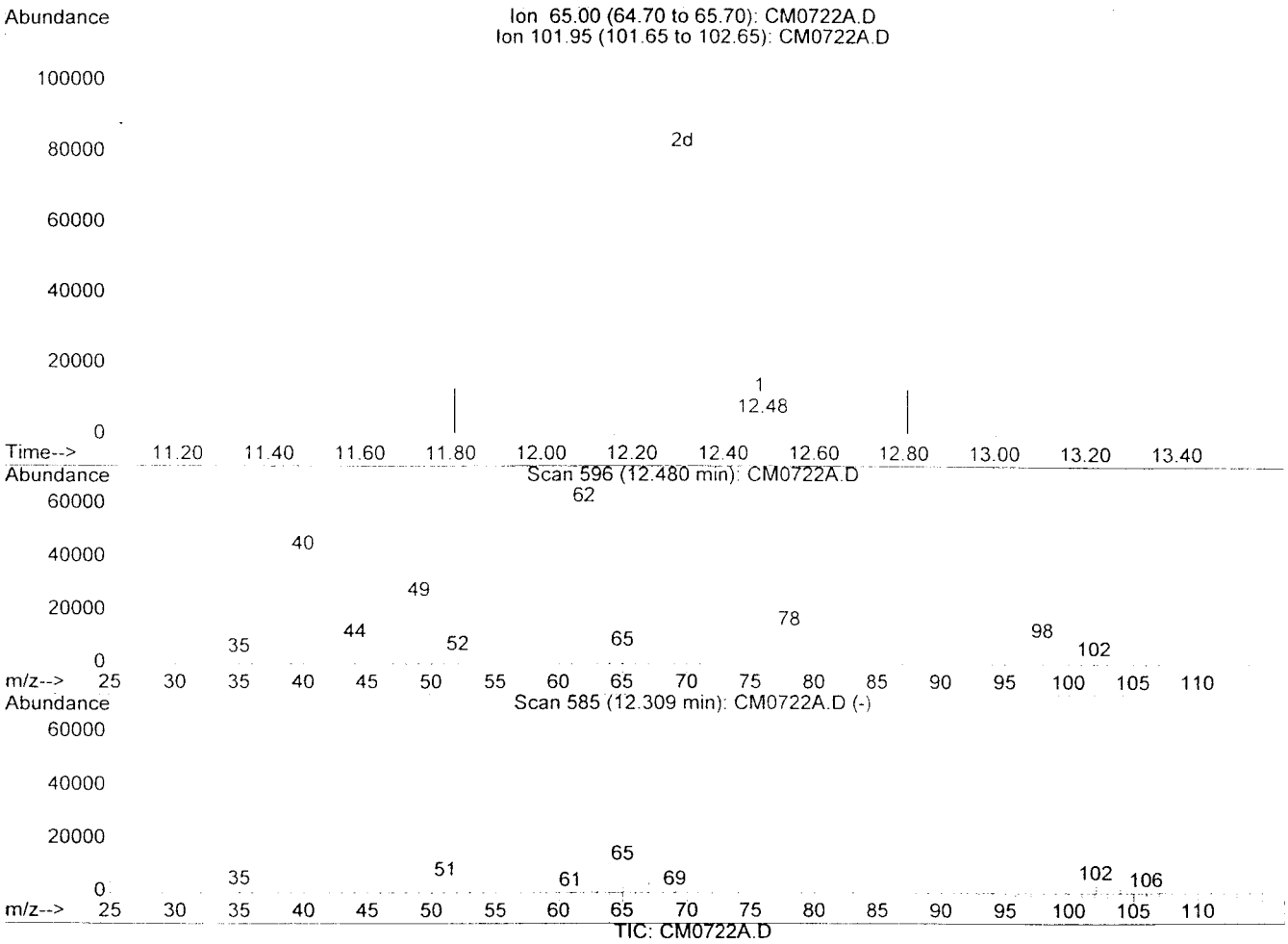
after
BH
7-22-02

CM0722A.D TO14S.M Mon Jul 22 10:42:26 2002

Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA02\M0722A\CM0722A.D Vial: 14
Acq On : 22 Jul 2002 9:57 Operator: BDH
Sample : VSTD050\ DAILY CALIBRATION CHECK Inst : MARILYN
Misc : Pi/Pf=1 MA126ABK 250ng Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 22 10:39 2002 Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Jul 22 10:35:55 2002
Response via : Multiple Level Calibration



(23) 1,2-Dichloroethane d4 SURR#1 (S)

12.48min 14.04ng

response 23696

Ion	Exp%	Act%
65.00	100	100
101.95	22.40	25.30
0.00	0.00	0.00
0.00	0.00	0.00

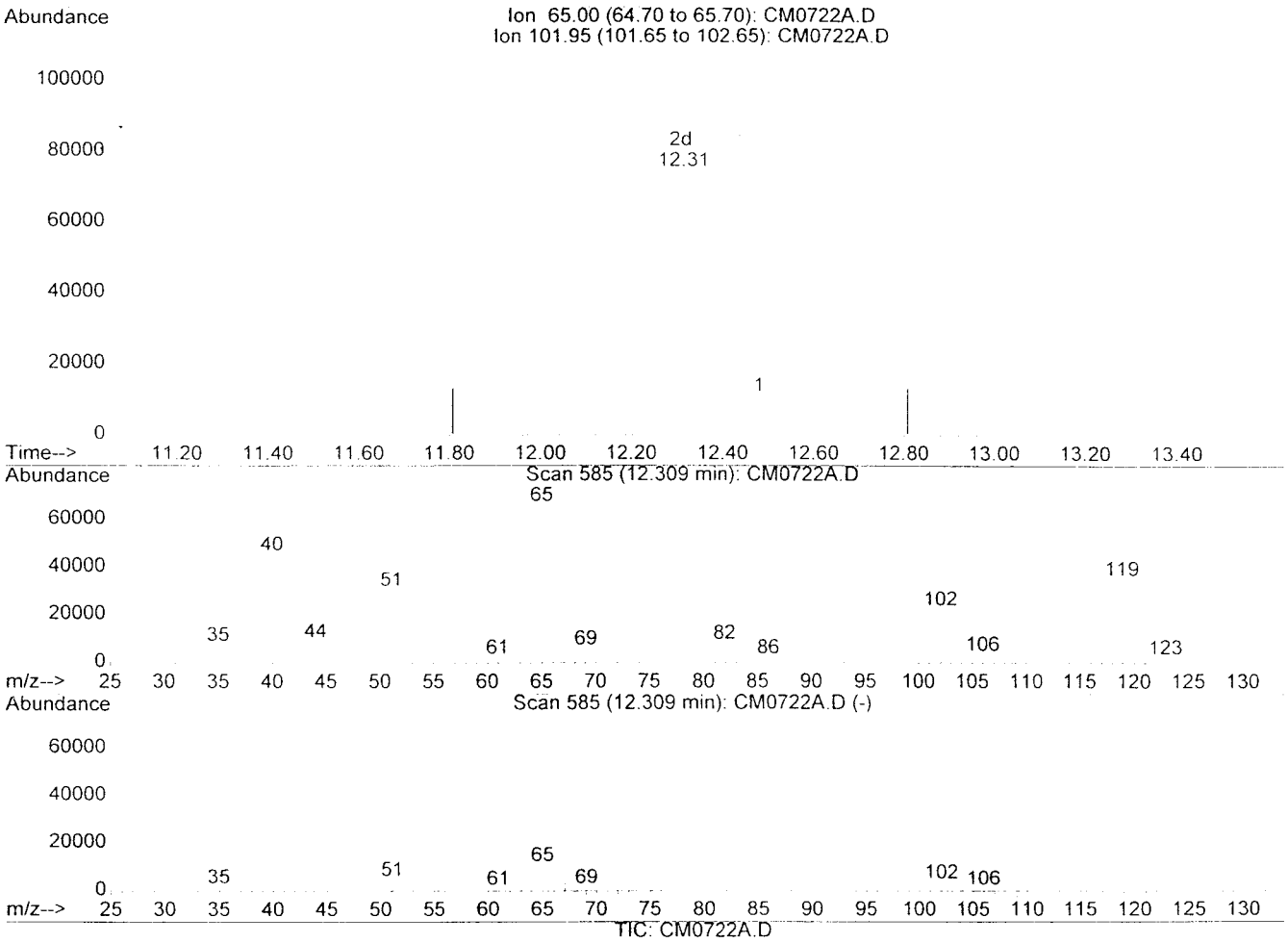
before (missed peak)

CM0722A.D TO14S.M Mon Jul 22 10:39:21 2002

Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA02\M0722A\CM0722A.D Vial: 14
Acq On : 22 Jul 2002 9:57 Operator: BDH
Sample : VSTD050\ DAILY CALIBRATION CHECK Inst : MARILYN
Misc : Pi/Pf=1 MA126ABK 250ng Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 22 10:39 2002 Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Jul 22 10:35:55 2002
Response via : Multiple Level Calibration



(23) 1,2-Dichloroethane d4 SURR#1 (S)

12.31min 251.80ng m

response 425014

Ion	Exp%	Act%
65.00	100	100
101.95	22.40	1.41#
0.00	0.00	0.00
0.00	0.00	0.00

after BH 7-22-02

CM0722A.D TO14S.M Mon Jul 22 10:39:27 2002

Quantitation Report

Data File : D:\HPCHEM\1\DATA02\M0722A\CM0722A.D Vial: 14
Acq On : 22 Jul 2002 9:57 Operator: BDH
Sample : VSTD050\ DAILY CALIBRATION CHECK Inst : MARILYN
Misc : Pi/Pf=1 MA126ABK 250ng Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 22 10:29 2002 Quant Results File: TO14S.RES

Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Thu Jul 11 10:01:57 2002
Response via : Initial Calibration
DataAcq Meth : TO14S
IS QA File : D:\HPCHEM\1\DATA02\M0718A\CM0718A.D (18 Jul 2002 9:35)

original

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) Bromochloromethane IS#1	11.16	128	402030	250.00	ng	-0.06 79.69%
26) 1,4-Difluorobenzene IS#2	13.10	114	1628885	250.00	ng	-0.06 80.01%
36) Chlorobenzene-d5 IS#3	20.38	117	1233699	250.00	ng	-0.09 78.75%

System Monitoring Compounds						
23) 1,2-Dichloroethane d4 SURR	12.48	65	23696	14.04	ng	0.12
Spiked Amount 250.000 Range 61 - 140 Recovery = 5.62%#						
32) Toluene-d8 SURR#2	16.64	98	1225122	244.00	ng	-0.07
Spiked Amount 250.000 Range 90 - 109 Recovery = 97.60%						
46) 4-Bromofluorobenzene SURR#	23.51	95	1030101	251.13	ng	-0.10
Spiked Amount 250.000 Range 87 - 112 Recovery = 100.45%						

Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.60	85	451963	335.58	ng		99
3) Dichlorotetrafluoroethane	3.80	135	553671	356.24	ng	#	53
4) Chloromethane	4.08	50	212711	237.20	ng	#	94
5) Vinyl chloride	4.27	62	248377	254.29	ng		97
6) Bromomethane	5.12	94	362366	238.40	ng	#	97
7) Chloroethane	5.26	64	176969	239.26	ng		96
8) Trichlorofluoromethane	5.73	101	970286	264.39	ng		97
9) 1,1,2-Trichlorotrifluoroet	6.54	151	821179	260.84	ng	#	77
10) 1,1-Dichloroethene	6.91	96	398351	259.16	ng		88
12) Methylene chloride	7.82	49	463211	234.56	ng		92
13) Carbon disulfide	7.92	76	1085555	255.10	ng		100
14) methyl-Tert-Butyl Ether	8.12	73	788349	263.79	ng		98
15) trans-1,2-Dichloroethene	8.41	96	455631	253.86	ng		91
16) n-Hexane	8.52	57	425339	264.57	ng	#	1
17) 1,1-Dichloroethane	9.25	63	745841	252.72	ng		99
18) cis-1,2-Dichloroethene	10.48	61	594754	252.11	ng		90
19) Chloroform	10.80	83	935867	258.80	ng		98
20) Isooctane	11.77	57	1465719	266.05	ng		94
21) 1,1,1-Trichloroethane	11.66	97	868239	260.77	ng		90
22) Carbon tetrachloride	12.23	117	932990	261.60	ng		100
24) 1,2-Dichloroethane	12.50	62	469772	258.84	ng	#	96
25) 1,2-Dibromoethane	19.43	107	871463	263.85	ng		98
27) Benzene	12.57	78	1080721	255.01	ng		96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA02\M0722A\CM0722A.D Vial: 14
Acq On : 22 Jul 2002 9:57 Operator: BDH
Sample : VSTD050\ DAILY CALIBRATION CHECK Inst : MARILYN
Misc : Pi/Pf=1 MA126ABK 250ng Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 22 10:29 2002 Quant Results File: TO14S.RES

Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Thu Jul 11 10:01:57 2002
Response via : Initial Calibration
DataAcq Meth : TO14S

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
28)	Trichloroethene	13.89	130	665419	256.07 ng		90
29)	1,2-Dichloropropane	14.28	63	459577	252.06 ng		94
30)	Bromodichloromethane	14.81	83	1101131	255.44 ng		99
31)	cis-1,3-Dichloropropene	16.02	75	713760	251.78 ng		92
33)	Toluene	16.83	92	745399	245.69 ng	#	98
34)	trans-1,3-Dichloropropene	17.20	75	603966	252.25 ng		97
35)	1,1,2-Trichloroethane	17.60	97	488958	257.19 ng		96
37)	Tetrachloroethene	18.44	164	690913	261.08 ng		90
38)	Dibromochloromethane	18.92	127	876333	262.05 ng	#	94
39)	Chlorobenzene	20.49	112	1094503	249.29 ng		89
40)	Ethylbenzene	20.58	106	435272	251.17 ng		94
41)	m,p-Xylene	20.78	106	1142363	502.90 ng		94
42)	o-Xylene	21.92	106	524463	239.44 ng		99
43)	Styrene	22.01	104	946775	250.97 ng		93
44)	Bromoform	22.94	173	1017877	276.80 ng		99
45)	1,1,2,2-Tetrachloroethane	23.27	83	779796	268.31 ng		99
47)	1,4-Dichloro-2-butene	22.92	75	170762	277.56 ng		89
48)	4-Ethyltoluene	24.20	105	1450084	261.36 ng		93
49)	1,3,5-Trimethylbenzene	24.31	105	1194240	270.76 ng		94
50)	2-Chlorotoluene	24.41	91	1381168	245.66 ng		96
51)	1,2,4-Trimethylbenzene	25.27	105	1143546	250.10 ng		98
52)	1,3-Dichlorobenzene	26.20	146	989403	252.37 ng	#	92
53)	1,4-Dichlorobenzene	26.42	146	1009202	246.00 ng	#	93
54)	1,2-Dichlorobenzene	27.18	146	944649	258.02 ng	#	92
55)	1,2,4-Trichlorobenzene	30.33	180	698711	263.47 ng		99
56)	Napthalene	30.85	128	883735	272.43 ng	#	90
57)	Hexachlorobutadiene	30.56	225	600632	252.02 ng		99

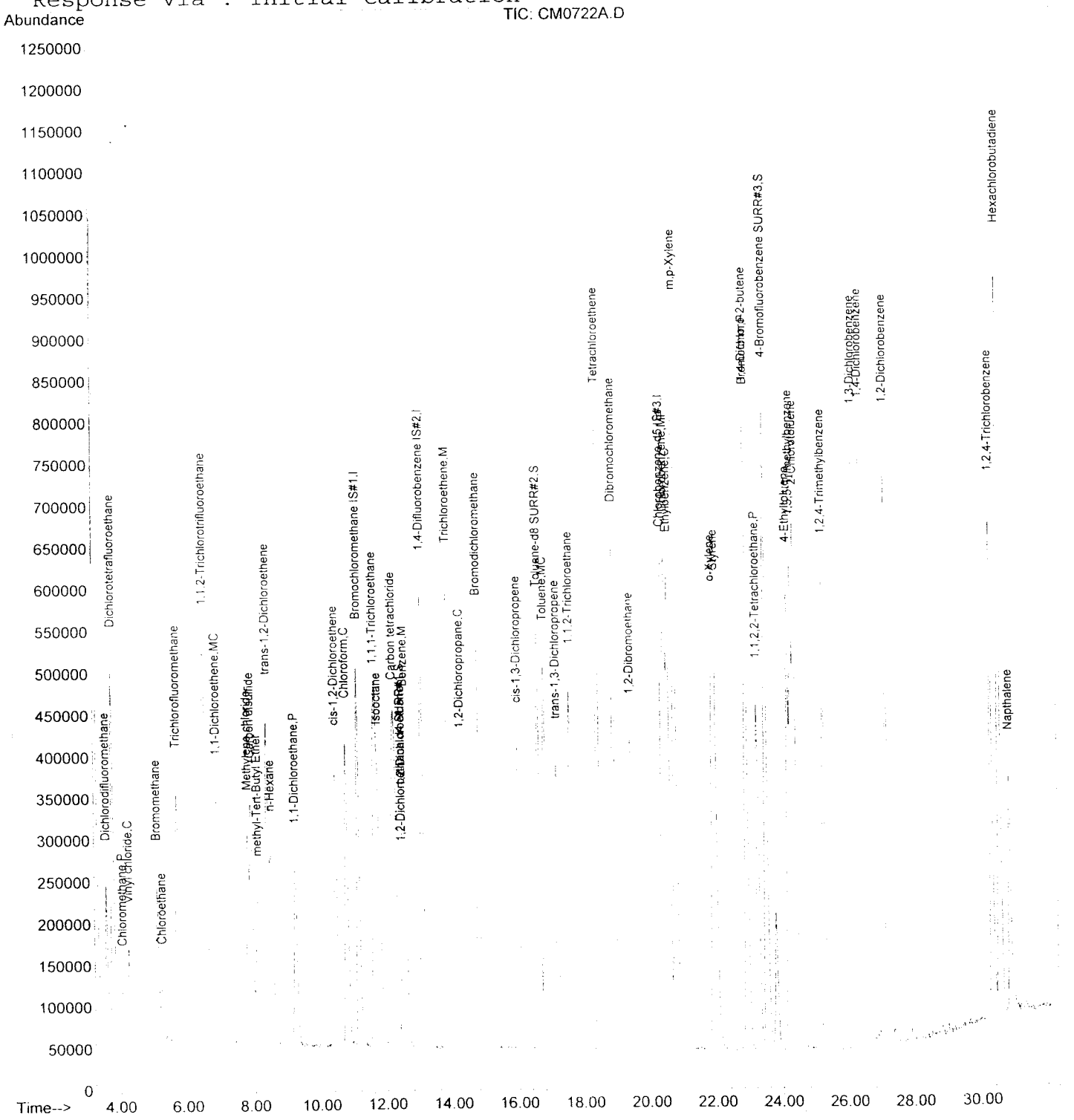
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA02\M0722A\CM0722A.D
Acq On : 22 Jul 2002 9:57
Sample : VSTD050\ DAILY CALIBRATION CHECK
Misc : Pi/Pf=1 MA126ABK 250ng
MS Integration Params: rteint.p
Quant Time: Jul 22 10:39 2002

Vial: 14
Operator: BDH
Inst : MARILYN
Multiplr: 1.00
Quant Results File: TO14S.RES

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Jul 22 10:35:55 2002
Response via : Initial Calibration



Quantitation Report

Data File : D:\HPCHEM\1\DATA02\M0722A\MA126ABK.D
Acq On : 22 Jul 2002 10:49
Sample : VBLKMA\ DAILY METHOD BLANK
Misc : Pi/Pf=1 MA126ABK
MS Integration Params: rteint.p
Quant Time: Jul 22 11:22 2002

Vial: 15
Operator: BDH
Inst : MARILYN
Multiplr: 1.00

Quant Results File: TO14S.RES

Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Jul 22 10:42:36 2002
Response via : Initial Calibration
DataAcq Meth : TO14S
IS QA File : D:\HPCHEM\1\DATA02\M0722A\CM0722A.D (22 Jul 2002 9:57)

original BH 7/22/02

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) Bromochloromethane IS#1	11.16	128	402552	250.00	ng	0.00 100.13%
26) 1,4-Difluorobenzene IS#2	13.10	114	1604130	250.00	ng	0.00 98.48%
36) Chlorobenzene-d5 IS#3	20.39	117	1212444	250.00	ng	0.01 98.28%

System Monitoring Compounds

23) 1,2-Dichloroethane d4 SURR	12.31	65	426342	252.26	ng	0.00
Spiked Amount 250.000	Range 61 - 140		Recovery = 100.90%			
32) Toluene-d8 SURR#2	16.64	98	1214324	245.58	ng	0.00
Spiked Amount 250.000	Range 90 - 109		Recovery = 98.23%			
46) 4-Bromofluorobenzene SURR#	23.53	95	994920	246.81	ng	0.01
Spiked Amount 250.000	Range 87 - 112		Recovery = 98.72%			

Target Compounds

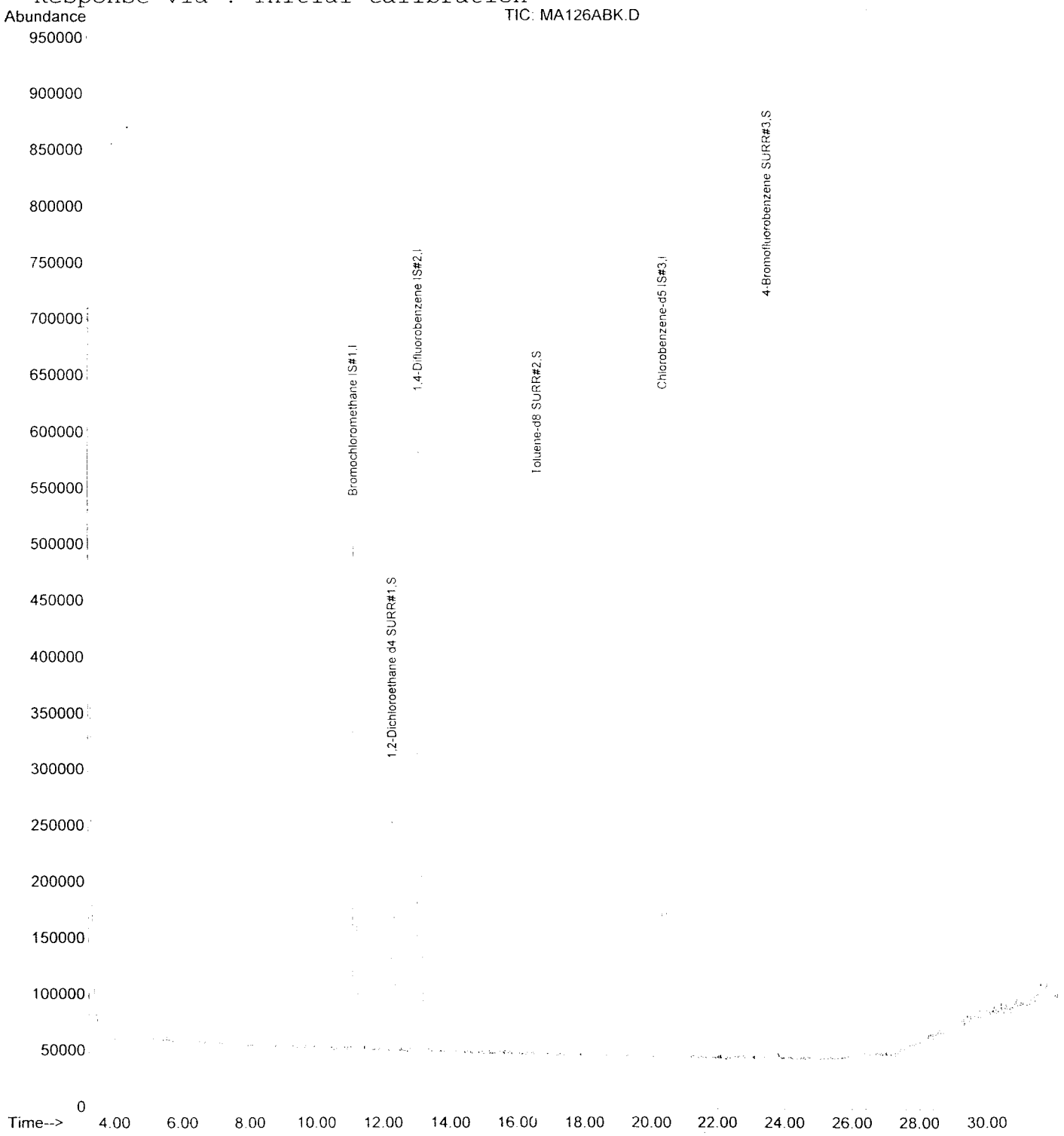
					Qvalue
56) Napthalene	30.87	128	3363	Below Cal NSF	# 64

(#) = qualifier out of range (m) = manual integration
MA126ABK.D TO14S.M Mon Jul 22 11:22:12 2002

Quantitation Report

Data File : D:\HPCHEM\1\DATA02\M0722A\MA126ABK.D Vial: 15
Acq On : 22 Jul 2002 10:49 Operator: BDH
Sample : VBLKMA\ DAILY METHOD BLANK Inst : MARILYN
Misc : Pi/Pf=1 MA126ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 22 11:22 2002 Quant Results File: TO14S.RES

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Jul 22 10:42:36 2002
Response via : Initial Calibration



Quantitation Report

Data File : D:\HPCHEM\1\DATA02\M0722A\MA126LCS.D Vial: 16
Acq On : 22 Jul 2002 11:23 Operator: BDH
Sample : VLCSMA\ BATCH #126 LCS 50ppb/250ng Inst : MARILYN
Misc : Pi/Pf=1 MA126ABK 2nd SOURCE Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 22 11:56 2002 Quant Results File: TO14S.RES

Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Jul 22 10:42:36 2002
Response via : Initial Calibration
DataAcq Meth : TO14S
IS QA File : D:\HPCHEM\1\DATA02\M0722A\CM0722A.D (22 Jul 2002 9:57)

original - passes BH 7/22/02

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) Bromochloromethane IS#1	11.19	128	412585	250.00	ng	0.03 102.63%
26) 1,4-Difluorobenzene IS#2	13.13	114	1681582	250.00	ng	0.03 103.23%
36) Chlorobenzene-d5 IS#3	20.39	117	1275905	250.00	ng	0.02 103.42%

System Monitoring Compounds

23) 1,2-Dichloroethane d4 SURR	12.32	65	424552	245.10	ng	0.02
Spiked Amount 250.000 Range 61 - 140 Recovery = 98.04%						
32) Toluene-d8 SURR#2	16.65	98	1283848	247.68	ng	0.02
Spiked Amount 250.000 Range 90 - 109 Recovery = 99.07%						
46) 4-Bromofluorobenzene SURR#	23.53	95	1027750	242.27	ng	0.02
Spiked Amount 250.000 Range 87 - 112 Recovery = 96.91%						

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.62	85	8422	6.09	ng	# 41
8) Trichlorofluoromethane	5.76	101	6772	1.80	ng	# 56
9) 1,1,2-Trichlorotrifluoroet	6.55	151	8619	2.67	ng	# 78
10) 1,1-Dichloroethene	6.94	96	418565	265.34	ng	87
12) Methylene chloride	7.85	49	944	0.47	ng	# 24
13) Carbon disulfide	7.98	76	12100	2.77	ng	# 74
15) trans-1,2-Dichloroethene	8.44	96	1054	0.57	ng	# 1
16) n-Hexane	8.55	57	8987	5.45	ng	# 1
20) Isooctane	11.83	57	31276	5.53	ng	# 67
22) Carbon tetrachloride	12.25	117	1070	0.29	ng	# 80
24) 1,2-Dichloroethane	12.57	62	1224	0.66	ng	# 49
27) Benzene	12.60	78	1128062	257.84	ng	96
28) Trichloroethene	13.92	130	700384	261.08	ng	90
33) Toluene	16.86	92	782479	249.83	ng	# 99
34) trans-1,3-Dichloropropene	16.86	75	3669	1.48	ng	# 1
37) Tetrachloroethene	18.45	164	5157	1.88	ng	# 56
39) Chlorobenzene	20.50	112	1143599	251.85	ng	# 82
41) m,p-Xylene	20.80	106	6142	2.61	ng	81
45) 1,1,2,2-Tetrachloroethane	23.27	83	1034	0.34	ng	# 30
48) 4-Ethyltoluene	24.31	105	16015	2.79	ng	# 77
49) 1,3,5-Trimethylbenzene	24.31	105	16015	3.51	ng	91
50) 2-Chlorotoluene	24.43	91	14431	2.48	ng	# 61
51) 1,2,4-Trimethylbenzene	25.28	105	16549	3.50	ng	# 78

(#) = qualifier out of range (m) = manual integration
MA126LCS.D TO14S.M Mon Jul 22 11:56:06 2002 Page 1

Quantitation Report

Data File : D:\HPCHEM\1\DATA02\M0722A\MA126LCS.D
Acq On : 22 Jul 2002 11:23
Sample : VLCSMA\ BATCH #126 LCS 50ppb/250ng
Misc : Pi/Pf=1 MA126ABK 2nd SOURCE
MS Integration Params: rteint.p
Quant Time: Jul 22 11:56 2002

Vial: 16
Operator: BDH
Inst : MARILYN
Multiplr: 1.00
Quant Results File: TO14S.RES

Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Jul 22 10:42:36 2002
Response via : Initial Calibration
DataAcq Meth : TO14S

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
52) 1,3-Dichlorobenzene	26.21	146	13784	3.40 ng	#	67
53) 1,4-Dichlorobenzene	26.43	146	13697	3.23 ng	#	69
54) 1,2-Dichlorobenzene	27.19	146	11301	2.98 ng	#	68
55) 1,2,4-Trichlorobenzene	30.33	180	16309	Below Cal	#	86
56) Napthalene	30.87	128	21145	Below Cal	#	64
57) Hexachlorobutadiene	30.56	225	31536	Below Cal		97

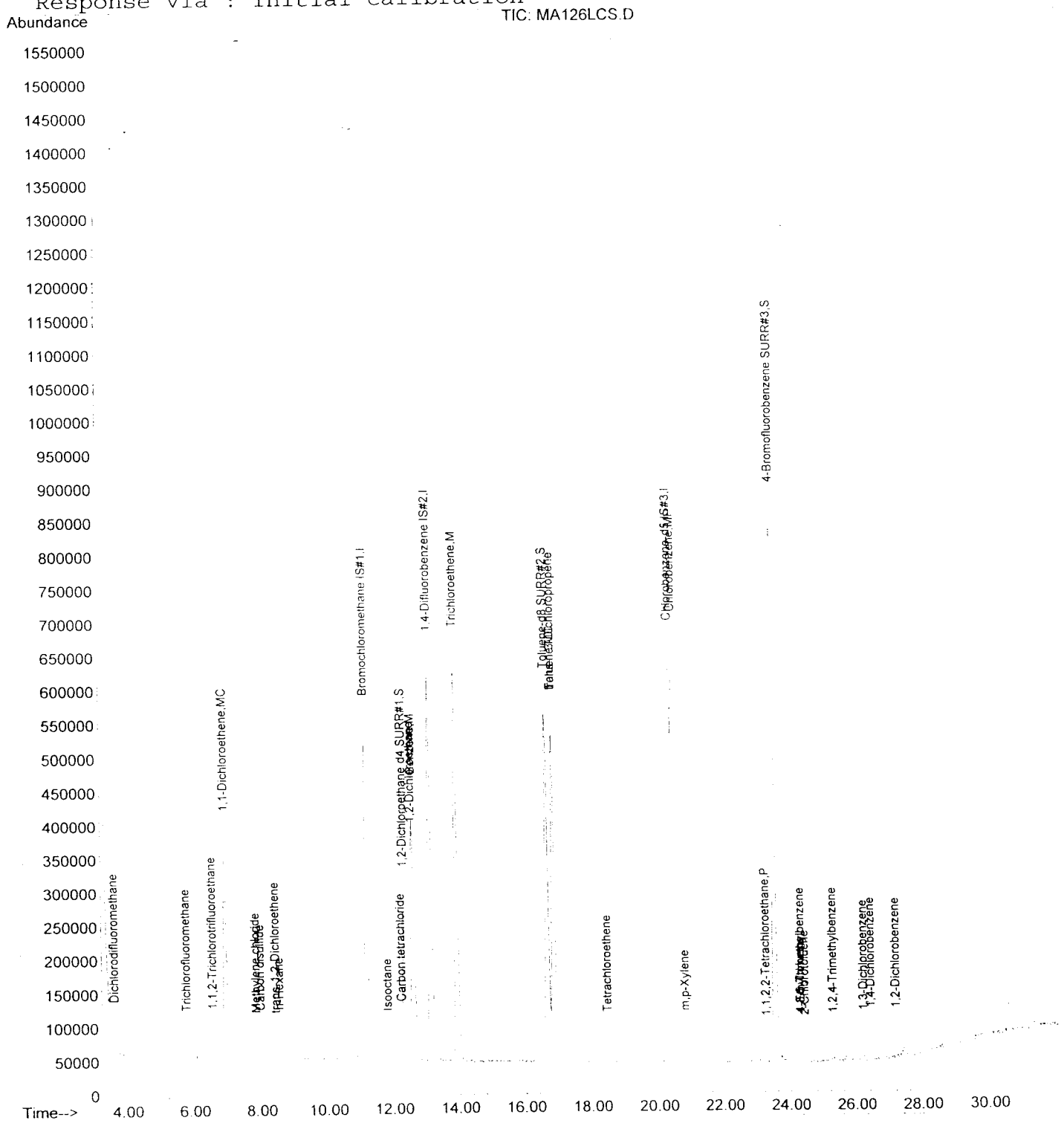
(#) = qualifier out of range (m) = manual integration
MA126LCS.D TO14S.M Mon Jul 22 11:56:06 2002

Quantitation Report

Data File : D:\HPCHEM\1\DATA02\M0722A\MA126LCS.D
Acq On : 22 Jul 2002 11:23
Sample : VLCSMA\ BATCH #126 LCS 50ppb/250ng
Misc : Pi/Pf=1 MA126ABK 2nd SOURCE
MS Integration Params: rteint.p
Quant Time: Jul 22 11:56 2002

Vial: 16
Operator: BDH
Inst : MARILYN
Multiplr: 1.00
Quant Results File: TO14S.RES

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Jul 22 10:42:36 2002
Response via : Initial Calibration



Quantitation Report

Data File : D:\HPCHEM\1\DATA02\M0722A\74041.D
Acq On : 22 Jul 2002 12:32
Sample : 062SVEEA07150226\ 07404-1 ST. 500mls
Misc : MA126ABK
MS Integration Params: rteint.p
Quant Time: Jul 22 14:07 2002

Vial: 1
Operator: BDH
Inst : MARILYN
Multiplr: 0.004

Quant Results File: TO14S.RES

Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Jul 22 10:42:36 2002
Response via : Initial Calibration
DataAcq Meth : TO14S
IS QA File : D:\HPCHEM\1\DATA02\M0722A\CM0722A.D (22 Jul 2002 9:57)

BH 7-22-02

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) Bromochloromethane IS#1	11.20	128	415047	250.00 ng	0.04 103.24%
26) 1,4-Difluorobenzene IS#2	13.14	114	1747319	250.00 ng	0.04 107.27%
36) Chlorobenzene-d5 IS#3	20.41	117	1287369	250.00 ng	0.04 104.35%

System Monitoring Compounds

23) 1,2-Dichloroethane d4 SURR	12.33	65	433270	248.65 ng	0.02
Spiked Amount 250.000	Range 61 - 140		Recovery = 99.46%		
32) Toluene-d8 SURR#2	16.66	98	1316584	244.44 ng	0.02
Spiked Amount 250.000	Range 90 - 109		Recovery = 97.78%		
46) 4-Bromofluorobenzene SURR#	23.53	95	1027067	239.95 ng	0.02
Spiked Amount 250.000	Range 87 - 112		Recovery = 95.98%		

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
74041.D TO14S.M Mon Jul 22 14:07:19 2002

Quantitation Report

Data File : D:\HPCHEM\1\DATA02\M0722A\74041.D
Acq On : 22 Jul 2002 12:32
Sample : 062SVEEA07150226\ 07404-1 ST. 500mls
Misc : MA126ABK
MS Integration Params: rteint.p
Quant Time: Jul 22 13:04 2002

Vial: 1
Operator: BDH
Inst : MARILYN
Multiplr: 1.00

Quant Results File: TO14S.RES

Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Jul 22 10:42:36 2002
Response via : Initial Calibration
DataAcq Meth : TO14S
IS QA File : D:\HPCHEM\1\DATA02\M0722A\CM0722A.D (22 Jul 2002 9:57)

original BH 7/22/02

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) Bromochloromethane IS#1	11.20	128	415047	250.00 ng	0.04 103.24%
26) 1,4-Difluorobenzene IS#2	13.14	114	1747319	250.00 ng	0.04 107.27%
36) Chlorobenzene-d5 IS#3	20.41	117	1287369	250.00 ng	0.04 104.35%

System Monitoring Compounds

23) 1,2-Dichloroethane d4 SURR	12.33	65	433270	248.65 ng	0.02
Spiked Amount 250.000 Range 61 - 140 Recovery = 99.46%					
32) Toluene-d8 SURR#2	16.66	98	1316584	244.44 ng	0.02
Spiked Amount 250.000 Range 90 - 109 Recovery = 97.78%					
46) 4-Bromofluorobenzene SURR#	23.53	95	1027067	239.95 ng	0.02
Spiked Amount 250.000 Range 87 - 112 Recovery = 95.98%					

Target Compounds

					Qvalue
6) Bromomethane	5.21	94	940	0.60 ng	# 9
14) methyl-Tert-Butyl Ether	8.19	73	935	0.30 ng	# 52
48) 4-Ethyltoluene	24.33	105	938	0.16 ng	# 46
49) 1,3,5-Trimethylbenzene	24.33	105	938	0.20 ng	# 30
51) 1,2,4-Trimethylbenzene	25.68	105	7795	1.63 ng	# 31
57) Hexachlorobutadiene	30.56	225	8512	Below Cal	# 71

CRL/NR/NSF

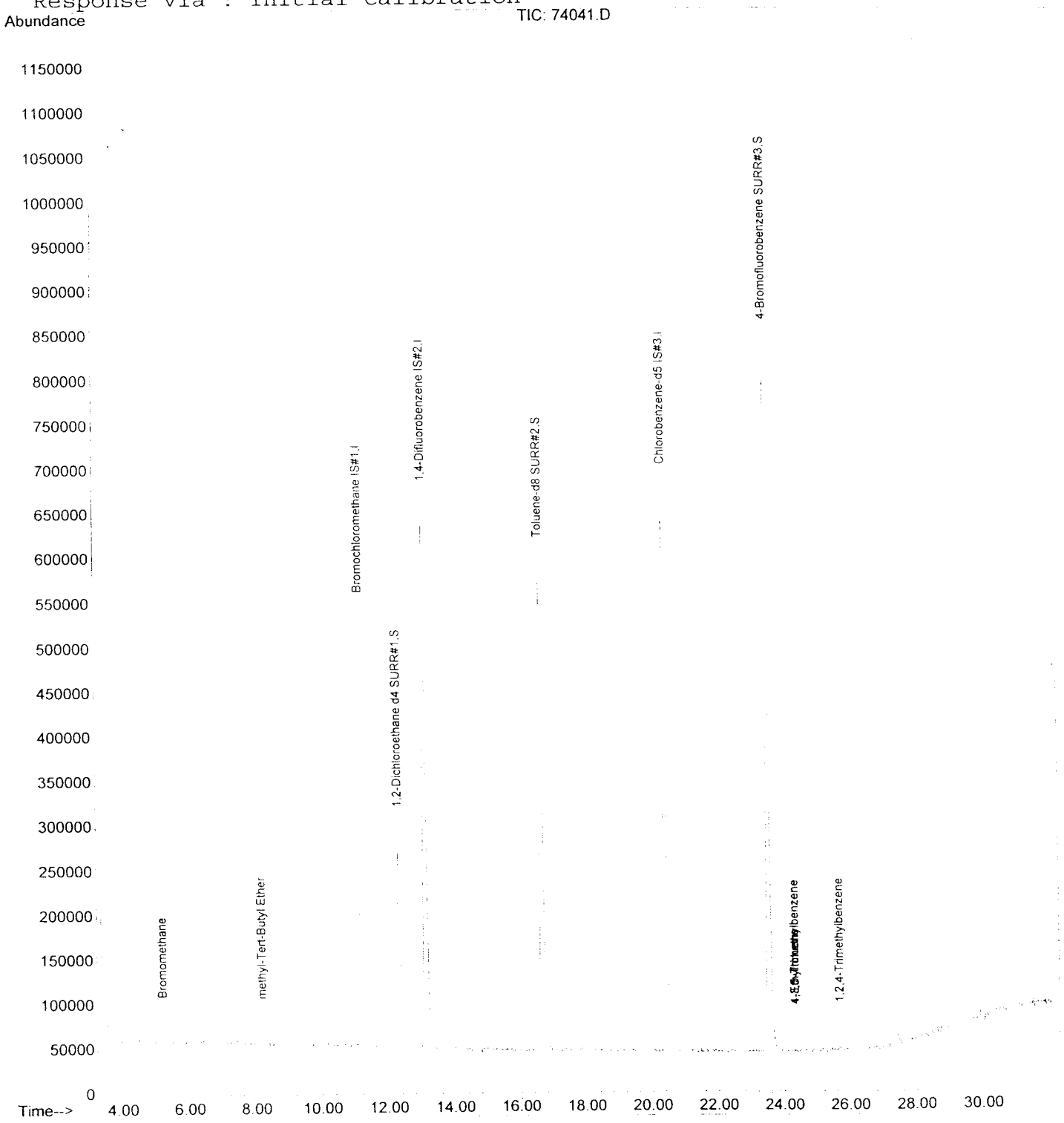
(#) = qualifier out of range (m) = manual integration
74041.D TO14S.M Mon Jul 22 13:04:15 2002

Quantitation Report

Data File : D:\HPCHEM\1\DATA02\M0722A\74041.D
Acq On : 22 Jul 2002 12:32
Sample : 062SVEEA07150226\ 07404-1 ST. 500mls
Misc : MA126ABK
MS Integration Params: rteint.p
Quant Time: Jul 22 13:04 2002

Vial: 1
Operator: BDH
Inst : MARILYN
Multiplr: 1.00
Quant Results File: TO14S.RES

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Jul 22 10:42:36 2002
Response via : Initial Calibration



STL Pensacola / GCMS Volatiles Run Log

New To14 Curve

Date 7-9-02 Instrument ID : MARILYN Method : TO14 /8260AIR /8260WATER /624MOD

Batch MAB121 (1) 2 3 Batch _____ 1 2 3

IS# 8 -MSW- 34 - 1 TO14 8 -MSW- 32 - 1 AIR-SPK 8 -MSW- 36 - 2 Maint. _____

BFB 8 -MSW- 34 - 1 8260 -MSW- - W-SPK -MSW- -

TIME	POS	METH	FILE NAME/ SAMPLE ID	DIL.	RR	PRES	MATRIX	QC PASS**	*INIT	COMMENTS
10:51	#13	BFBSTL	~~BFM0709A~~	50ppb		N/A	W		~~BAH~~	Daily 12 hour BFB Tune
~~11:14~~	~~BH~~ 7/9 14	To14S.m	CM0709A	250ng			W	Yes	~~BAH~~	Daily Cal Check ~~BFB tune~~ (not needed) File CMA0250 used for CCV
11:14	15		MAB121ABK	ST						Daily Method Blank
18:04	16		MAB121 LCS	50ppb						Batch# 121 LCS / 2nd Source
12:19	14		CMA0025	25ng		Y N				5ppb-ICAL
12:57	14		0100	100ng		Y N				20ppb-
13:34	14		0250	250ng		Y N				50ppb- (and CCV)
14:10	14		0500	500ng		Y N				100ppb-
—	14	BFBSTL	BLKTUBE	—		Y N	—	—		Port. #14 Carry-over clean-up
15:12	14	To14S.m	CMA1000	1000ng		Y N	W	Yes		200ppb-ICAL
—	14	BFBSTL	BLKTUBE	—		Y N	—	—		Port #14 Carry-over cleanup
16:12	14	To14S.m	CMA1500	1500ng		Y N	W	Yes		300ppb-ICAL
—	14	BFBSTL	BLKTUBE	—		Y N	—	—		Port #14 Carry-over cleanup
17:10	14	To14S.m	CMA0100R	100ng		Y N	W	Yes		20ppb ICAL re-run
—	14	BFBSTL	BLKTUBE	—		Y N	—	—		Port #14 Carry-over cleanup
:						Y N				
:						Y N				
:						Y N				
:						Y N				~~BAH~~ 7/9/02
:						Y N				
:						Y N				* see OCCE
:						Y N				
:						Y N				

* The analyst whose name appears above is the analyst who removed the sample(s) from the sample storage refrigerator, maintained custody during analysis and relinquished sample(s) back to the sample storage refrigerator.

** Iss and surrogates were checked automatically using the software and generic Forms II and VIII that are located in the daily folder.

STL Pensacola
NAS Cecil Field, CTO-0062

STL Pensacola / GCMS Volatiles Run Log

Date 7-22-02 Instrument ID : MARILYN Method TO14 /8260AIR /8260WATER /624MOD

Batch MA126 1 2 3 Batch 1 2 3

TS# 8 -MSW- 34 - 1 TO14 8 -MSW- 32 - 1 AIR-SPK 8 -MSW- 36 - 2 Maint. ____

BFB 8 -MSW- 34 - 1 8260 -MSW- - W-SPK -MSW- -

TIME	POS	METH	FILE NAME/ SAMPLE ID	DIL.	RR	PRES	MATRIX	QC PASS**	*INIT	COMMENTS
08:58	#13	BFBSTL	~~BFM0722A~~	250ng			W		BDH	
09:57	14	To14Sim	CM0722A	50ppb			W	Yes	BDH	Daily Cal Check / BFB tune
10:49	15		MA126A BK	ST						Daily Method Blank
11:23	16		MA126 LCS	50ppb						Batch# 126 LCS
11:57	1		QC109	ST.		Y N	A (TO14)			QC Can Check #109 - passed
12:32	1		7404-1	ST.		Y N				500mls
14:56	1		7405-1	ST.		Y N				500mls
:						Y N				
:						Y N				
:						Y N				
:						Y N				
:						Y N				
:						Y N				
:						Y N				
:						Y N				
:						Y N				
:						Y N				
:						Y N				Screened 8260 Airs 7331(1), 7449(1-4)
:						Y N				
:						Y N				
:						Y N				
:						Y N				
:						Y N				

The analyst whose name appears above is the analyst who removed the sample(s) from the sample storage refrigerator, maintained custody during analysis d relinquished sample(s) back to the sample storage refrigerator.

Iss and surrogates were checked automatically using the software and generic Forms II and VIII that are located in the daily folder.

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STL Pensacola

NAS Cecil Field, CTO-0062

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STL - PENSACOLA, FL / GCMS

GC/MS WORKING STANDARDS LOG

ug/ml = ppm
ug/l = ppb

Sol. Name: TO-14 Calibration Std
Date: 1-25-02
Analyst: [illegible]

Standard I.D.: 8 -MSW32- 1
Location: MS018-Std Freezer
Solvent: MeOH - Lot V30E40

Parent I.D.	Lot #	Exp. Date	Parent Conc. (ppm) ug/ml	Aliquot (ul)	Final Volume (ml)	Final Conc.
8-VN-4-5	LB-01730	1/2/03	2500 µg/ml	250 µl	25 ml	25 µg/ml

Comments: expires 6/25/02 expires 7/25/02 & 2/5/02

Sol. Name: 8 IS/Surr
Date: 2-18-02
Analyst: [illegible]

Standard I.D.: 8 -MSW32-2
Location: MS018-Std Freezer
Solvent: MeOH Lot # V30E40

Parent I.D.	Lot #	Exp. Date	Parent Conc. (ppm) ug/ml	Aliquot (ul)	Final Volume (ml)	Final Conc.
8-VN2-21 (IS)	A018631	06/04	2500 µg/ml	500 µl	50 ml	25 µg/ml
8-VN3-1 (Surr)	A019474	08/04	↓	↓	↓	↓

Comments: Expires 8-18-02

Sol. Name: IS/SUMA
Date: 3/1/02
Analyst: [illegible]

Standard I.D.: 8-MSW 32-3
Location: KAT - prep
Solvent: V30E40 MeOH

Parent I.D.	Lot #	Exp. Date	Parent Conc. (ppm) ug/ml	Aliquot (ul)	Final Volume (ml)	Final Conc.
8-VN-2-21 IS	A018631	6/04	2500	500	10	125 µg/ml
8-VN-3-1 Surr	A019474	8/04	2500	500	10	

Comments: expires 9/1/02

GC/MS WORKING STANDARDS LOG

ug/ml = ppm
ug/l = ppb
Sol. Name: 1014 IS/Surr
Date: 4-11-02
Analyst: BDH

Standard I.D.: 8 -MSW34- 1
Location: 6C/MS Freezer MS018
Solvent: Methanol

Parent I.D.	Lot #	Exp. Date	Parent Conc. (ppm) ug/ml	Aliquot (ul)	Final Volume (ml)	Final Conc.
8-VN4-14 (IS)	A018019	3/05	2500 ug/ml	500 uls	50 mls	25 ppm
8-VN4-15 (Surr)	A021561	4/06	↓	↓	↓	↓

Comments: expires 10-11-02

Sol. Name: IS/SURR
Date: 4-15-02
Analyst: [illegible]

Standard I.D.: 8 -MSW34-2
Location: GC/MS Freezer MS018
Solvent: MeOH Lot V30E40

Parent I.D.	Lot #	Exp. Date	Parent Conc. (ppm) ug/ml	Aliquot (ul)	Final Volume (ml)	Final Conc.
8-VW2-21 (IS)	A018631	06/04	2500 ug/ml	500 ul	50 ml	25 ug/ml
8-VW3-11 (Surr)	A019474	08/04	2500 ug/ml	500 ul	50 ml	25 ug/ml

Comments: Expires 10-15-02

Sol. Name: Matrix Spike
Date: 4/16/02
Analyst: [illegible]

Standard I.D.: 8 -MSW34-3
Location: MS018
Solvent: MeOH V30E40

Parent I.D.	Lot #	Exp. Date	Parent Conc. (ppm) ug/ml	Aliquot (ul)	Final Volume (ml)	Final Conc.
Custom Mix 8-VW4-17	LB03455	3/03	2000	625	50	25 µg/ml
Iodomethane 8-VW4-11	LB00103	12/02	↓	↓	↓	↓
Mix 6 8-VW-3-14	LA99456	11/02				
502/504 8-VW-3-15	LA90534	10/03				
Freon 113 8-VW-3-13	LA93546	6/04				
Keytones 8-VW-3-16	LA97408	9/30/02		1250		

Comments: expires 9/30/02

NEAT AND PURCHASED STOCK SOLUTIONS LOG BOOK

COMPOUND I.D. (SOL. NAME)	LOT #	SUPPLIER	PURITY (CONC.)	RC'D DATE	EXP. DATE	# of AMPULES	LOG I.D.
Iso-octane	B0110734	Accu STD	2000 µg/ml	11/16/01	12/31/02	5	8-VN 4-1
Custom 8260 short list	LA-95178	Supelco	5000 µg/ml	11/20/01	11/20/02	3	8-VN 4-2
Dichloro Fluoroethane		Pall Memb.	99+ %				8-VN 4-3
ASAHIKLIN AK-225	NA	Pall Membrane	99+ %	12/18/01	12/18/02	1	8-VN 4-4
Custom TO14 STD MIX	LB01788	Supelco	2500 µg/ml	1/7/02	1/2/03	4	8-VN 4-5
8260 IS	A21640	Restek	2500 µg/ml	3/7/02	4/05	10	8-VN 4-6
Vol's Mix 6	LB02915	Supelco	2000 µg/ml	3/21/02	5/03	3	8-VN 4-7
Freon 113	LB02626	Supelco	2000 µg/ml	3/21/02	2/05	2	8-VN 4-8
502/524 Mix	LB02048	Supelco	2000 µg/ml	3/21/02	5/04	3	8-VN 4-9
8260 Ketone	LA97488	Supelco	2000-2000 µg/ml	3/21/02	9/03	3	8-VN 4-10
Iodomethane	LB00103	Supelco	2000 µg/ml	3/21/02	12/02	3	8-VN 4-11
8260 Kit	Various	Restek	Various	3/21/02	Various	2	8-VN 4-12
Freon 113	A021343	Restek	2000 µg/ml	3/21/02	3/03	3	8-VN 4-13
VOA IS (TO14)	A018019	Restek	2500 µg/ml	3/21/02	3/05	3	8-VN 4-14
VOA Surr (TO14)	A021561	Restek	2500 µg/ml	3/21/02	4/06	2	8-VN 4-15
8260 Ketone	LB03079	Supelco	2000-2000 µg/ml	3/22	8/04	3	8-VN 4-16
Custom Mix	LB03455	Supelco	2000-4000 µg/ml	3/25	3/25/03	3	8-VN 4-17
1,2-Methyl Naphthalene	H-001500S-MIX	Acc STD	1000 µg/ml	6/6/02	6/6/03	2	8-VN 4-18
8260 Surr Mix	A022261	Restek	2500 µg/ml	6/12/02	5/05	10	8-VN 4-19
IPE	A019529	Restek	2000 µg/ml	7/8/02	5/04	3	-VN 4-20
							-VN -
							-VN -
							-VN -
							-VN -
							-VN -
							-VN -
							-VN -

STL - PENSACOLA, FL / GCMS

GC/MS WORKING STANDARDS LOG

ug/ml = ppm
ug/l = ppb

Sol. Name: IS/SURR
Date: 6-26-02
Analyst: WD

Standard I.D.: 8 -MSW36-1
Location: GC/MS Freezer MS018
Solvent: MeOH Lot V30E40

Parent I.D.	Lot #	Exp. Date	Parent Conc. (ppm) ug/ml	Aliquot (ul)	Final Volume (ml)	Final Conc.
8-VN-3-12 (IS)	A029253	11/04	2500 ug/ml	500 ml	50 ml	25 ug/ml
8-VN-3-11 (SURR)	A019474	8/04	2500 ug/ml	500 ml	50 ml	25 ug/ml

Comments: Expires 12-26-02

Sol. Name: AIR SPIKE
Date: 7-8-02
Analyst: BDH

Standard I.D.: 8 -MSW36-2
Location: GC/MS Freezer MS018
Solvent: MeOH Lot V30E46

Parent I.D.	Lot #	Exp. Date	Parent Conc. (ppm) ug/ml	Aliquot (ul)	Final Volume (ml)	Final Conc.
8-VN1-27	LA89933	5/1/2003	1000	625	25 mls	25 ppm

Comments: expires 1/8/03

Sol. Name:
Date:
Analyst:

Standard I.D.: -MSW -
Location:
Solvent:

Parent I.D.	Lot #	Exp. Date	Parent Conc. (ppm) ug/ml	Aliquot (ul)	Final Volume (ml)	Final Conc.

Comments:

NEAT AND PURCHASED STOCK SOLUTIONS LOG BOOK

COMPOUND I.D. (SOL. NAME)	LOT #	SUPPLIER	PURITY (CONC.)	RC'D DATE	EXP. DATE	# of AMPULES	LOG I.D.
Iso-octane	B0110734	Accu STD	2000 µg/ml	11/16/01	12/31/02	5	8-VN 4-1
Custom 8260 short list	LA-95178	Supelco	5000 µg/ml	11/20/01	11/20/02	3	8-VN 4-2
Dichlorofluoroethane		Pall Memb.	99+%				8-VN 4-3
ASAHIKLIN AK-225	NA	Pall Membrane	99+%	12/18/01	12/18/02	1	8-VN 4-4
Custom T014 STD mix	LB81782	Supelco	2500 µg/ml	1/7/02	1/2/03	4	8-VN 4-5
8260 IS	A21640	Restek	2500 µg/ml	3/7/02	4/05	10	8-VN 4-6
Vol 3 Mix 6	LB02915	Supelco	2000 µg/ml	3/21/02	5/03	3	8-VN 4-7
Freon 113	LB02426	Supelco	2000 µg/ml	3/21/02	2/05	2	8-VN 4-8
502/524 Mix	LB02048	Supelco	2000 µg/ml	3/21/02	5/04	3	8-VN 4-9
8260 Ketone	LA97488	Supelco	2000-2000 µg/ml	3/21/02	9/03	3	8-VN 4-10
Iodomethane	LB00103	Supelco	2000 µg/ml	3/21/02	12/02	3	8-VN 4-11
8260 Kit	Various	Restek	Various	3/21/02	Various	2	8-VN 4-12
Freon 113	A021343	Restek	2000 µg/ml	3/21/02	3/03	3	8-VN 4-13
VOA IS (T014)	A018019	Restek	2500 µg/ml	3/21/02	3/05	3	8-VN 4-14
VOA Surr (T014)	A021561	Restek	2500 µg/ml	3/21/02	4/06	2	8-VN 4-15
8260 Ketone	LB03079	Supelco	2000-2000 µg/ml	3/22	8/04	3	8-VN 4-16
Custom Mix	LB03455	Supelco	2000-4000 µg/ml	3/25	3/25/03	3	8-VN 4-17
1&2-Methyl Naphthalene	H-001500S-MIX	Acc STD	1000 µg/ml	6/6/02	6/6/03	2	8-VN 4-18
8260 Surr. Mix	A022661	Restek	2500 µg/ml	6/12/02	5/05	10	8-VN 4-19
IPE	A019529	Restek	2000 µg/ml	7/8/02	5/04	3	8-VN 4-20
							-VN -
							-VN -
							-VN -
							-VN -
							-VN -
							-VN -
							-VN -

SEVERN TRENT SERVICES

STL Pensacola

CASE NARRATIVE

Order: C208604
Project: CTO-0062, 103RD STREET MONTHLY AIR

The following samples were received at STL Pensacola on August 26, 2002 good condition. Please see Project Sample Inspection Sheet (PSIF) for further information.

SAMPLE#	SAMPLE DESCRIPTION	MATRIX
C208604*1	062-SVE-E-A-0821-02-27	Air

Rick Hayes

8-6-02
Date

SEVERN TRENT SERVICES

STL Pensacola

LOG NO: C2-08604
Received: 27 AUG 02
Reported: 06 SEP 02

Ms. Tatiana Romanova
CH2M Hill Constructors, Inc. (CCI)
115 Perimeter Center Place, NE Suite 700
Atlanta, GA 30346

Client PO. No.: 2916

Contract No.: CT0-0062
Project: CTO-0062, 103RD STREET MONTHLY AIR
Sampled By: Client
Code: 10062096

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , AIR SAMPLES	DATE/ TIME SAMPLED
08604-1	062-SVE-E-A-0821-02-27	08-21-02/15:45

PARAMETER	08604-1
Volatile Organic Compounds in Air (MOD-TO14)	
Benzene, mg/m3	0.068U
Bromodichloromethane, mg/m3	0.068U
Bromoform, mg/m3	0.068U
Bromomethane (Methyl bromide), mg/m3	0.068U
Carbon disulfide, mg/m3	0.068U
Carbon tetrachloride, mg/m3	0.068U
Chlorobenzene, mg/m3	0.068U
Chloroethane, mg/m3	0.068U
Chloroform, mg/m3	0.068U
Chloromethane (Methyl chloride), mg/m3	0.068U
2-Chlorotoluene, mg/m3	0.068U
Dibromochloromethane, mg/m3	0.068U
1,2-Dibromoethane (EDB), mg/m3	0.068U
1,2-Dichlorobenzene, mg/m3	0.068U
1,3-Dichlorobenzene, mg/m3	0.068U
1,4-Dichlorobenzene, mg/m3	0.068U
trans-1,4-Dichloro-2-butene, mg/m3	0.068U
Dichlorodifluoromethane, mg/m3	0.068U
1,1-Dichloroethane, mg/m3	0.068U
1,2-Dichloroethane, mg/m3	0.068U
1,1-Dichloroethene, mg/m3	0.068U
cis-1,2-Dichloroethene, mg/m3	0.068U
trans-1,2-Dichloroethene, mg/m3	0.068U
1,2-Dichloropropane, mg/m3	0.068U
cis-1,3-Dichloropropene, mg/m3	0.068U

SEVERN TRENT SERVICES

STL Pensacola
LOG NO: C2-08604
Received: 27 AUG 02
Reported: 06 SEP 02

Ms. Tatiana Romanova
CH2M Hill Constructors, Inc. (CCI)
115 Perimeter Center Place, NE Suite 700
Atlanta, GA 30346

Client PO. No.: 2916

Contract No.: CT0-0062
Project: CTO-0062, 103RD STREET MONTHLY AIR
Sampled By: Client
Code: 10062096

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , AIR SAMPLES	DATE/ TIME SAMPLED
08604-1	062-SVE-E-A-0821-02-27	08-21-02/15:45

PARAMETER	08604-1
trans-1,3-Dichloropropene, mg/m3	0.068U
Dichlorotetrafluoroethane, mg/m3	0.068U
Ethylbenzene, mg/m3	0.068U
Hexane, mg/m3	0.068U
4-Ethyltoluene, mg/m3	0.068U
Hexachlorobutadiene, mg/m3	0.068U
Methylene chloride (Dichloromethane), mg/m3	0.068U
Methyl t-butyl ether (MTBE), mg/m3	0.068U
Styrene, mg/m3	0.068U
1,1,2,2-Tetrachloroethane, mg/m3	0.068U
Tetrachloroethene, mg/m3	0.068U
Toluene, mg/m3	0.068U
1,2,4-Trichlorobenzene, mg/m3	0.068U
1,1,1-Trichloroethane, mg/m3	0.068U
1,1,2-Trichloroethane, mg/m3	0.068U
Trichloroethene, mg/m3	0.068U
Trichlorofluoromethane, mg/m3	0.068U
1,1,2-Trichloro-1,2,2-trifluoroethane, mg/m3	0.068U
1,2,4-Trimethylbenzene, mg/m3	0.068U
1,3,5-Trimethylbenzene, mg/m3	0.068U
Vinyl chloride, mg/m3	0.068U
o-Xylene, mg/m3	0.068U
m&p-Xylene, mg/m3	0.14U
Surrogate - 1,2-Dichloroethane-d4	106 %
Surrogate - Toluene-d8	102 %
Surrogate - 4-Bromofluorobenzene	103 %

SEVERN TRENT SERVICES

STL Pensacola

LOG NO: C2-08604
Received: 27 AUG 02
Reported: 06 SEP 02

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Contract No.: CT0-0062
Project: CTO-0062, 103RD STREET MONTHLY AIR
Sampled By: Client
Code: 10062096

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , AIR SAMPLES	DATE/ TIME SAMPLED
08604-1	062-SVE-E-A-0821-02-27	08-21-02/15:45

PARAMETER	08604-1
Dilution Factor	1
Prep Date	09.03.02
Prep Time	12:19
Analysis Date	09.03.02
Analysis Time	12:32
Batch ID	MAA154
Prep Method	MOD-TO14
Analyst	BDH

SEVERN TRENT SERVICES

STL Pensacola

LOG NO: C2-08604
Received: 27 AUG 02
Reported: 06 SEP 02

Ms. Tatiana Romanova
CH2M Hill Constructors, Inc. (CCI)
115 Perimeter Center Place, NE Suite 700
Atlanta, GA 30346

Client PO. No.: 2916

Contract No.: CTO-0062
Project: CTO-0062, 103RD STREET MONTHLY AIR
Sampled By: Client
Code: 10062096

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR AIR SAMPLES	DATE/ TIME SAMPLED
08604-2	Method Blank	
08604-3	Lab Control Standard True Value	
08604-4	Lab Control Standard Result	
08604-5	Lab Control Standard % Recovery	
08604-6	LCS Accuracy Control Limit (%R)	

PARAMETER	08604-2	08604-3	08604-4	08604-5	08604-6
Volatile Organic Compounds in Air (MOD-TO14)					
Benzene, mg/m3	0.030U	0.5000	0.5288	106 %	87-116
Bromodichloromethane, mg/m3	0.030U	---	---	---	---
Bromoform, mg/m3	0.030U	---	---	---	---
Bromomethane (Methyl bromide), mg/m3	0.030U	---	---	---	---
Carbon disulfide, mg/m3	0.030U	---	---	---	---
Carbon tetrachloride, mg/m3	0.030U	---	---	---	---
Chlorobenzene, mg/m3	0.030U	0.5000	0.5410	108 %	88-111
Chloroethane, mg/m3	0.030U	---	---	---	---
Chloroform, mg/m3	0.030U	---	---	---	---
Chloromethane (Methyl chloride), mg/m3	0.030U	---	---	---	---
2-Chlorotoluene, mg/m3	0.030U	---	---	---	---
Dibromochloromethane, mg/m3	0.030U	---	---	---	---
1,2-Dibromoethane (EDB), mg/m3	0.030U	---	---	---	---
1,2-Dichlorobenzene, mg/m3	0.030U	---	---	---	---
1,3-Dichlorobenzene, mg/m3	0.030U	---	---	---	---
1,4-Dichlorobenzene, mg/m3	0.030U	---	---	---	---
trans-1,4-Dichloro-2-butene , mg/m3	0.030U	---	---	---	---

SEVERN TRENT SERVICES

STL Pensacola

LOG NO: C2-08604
Received: 27 AUG 02
Reported: 06 SEP 02

Ms. Tatiana Romanova
CH2M Hill Constructors, Inc. (CCI)
115 Perimeter Center Place, NE Suite 700
Atlanta, GA 30346

Client PO. No.: 2916

Contract No.: CT0-0062
Project: CTO-0062, 103RD STREET MONTHLY AIR
Sampled By: Client
Code: 10062096

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR AIR SAMPLES	DATE/ TIME SAMPLED
08604-2	Method Blank	
08604-3	Lab Control Standard True Value	
08604-4	Lab Control Standard Result	
08604-5	Lab Control Standard % Recovery	
08604-6	LCS Accuracy Control Limit (%R)	

PARAMETER	08604-2	08604-3	08604-4	08604-5	08604-6
Dichlorodifluoromethane, mg/m3	0.030U	---	---	---	---
1,1-Dichloroethane, mg/m3	0.030U	---	---	---	---
1,2-Dichloroethane, mg/m3	0.030U	---	---	---	---
1,1-Dichloroethene, mg/m3	0.030U	0.5000	0.4997	100 %	58-138
cis-1,2-Dichloroethene, mg/m3	0.030U	---	---	---	---
trans-1,2-Dichloroethene, mg/m3	0.030U	---	---	---	---
1,2-Dichloropropane, mg/m3	0.030U	---	---	---	---
cis-1,3-Dichloropropene, mg/m3	0.030U	---	---	---	---
trans-1,3-Dichloropropene, mg/m3	0.030U	---	---	---	---
Dichlorotetrafluoroethane, mg/m3	0.030U	---	---	---	---
Ethylbenzene, mg/m3	0.030U	---	---	---	---
Hexane, mg/m3	0.030U	---	---	---	---
4-Ethyltoluene, mg/m3	0.030U	---	---	---	---
Hexachlorobutadiene, mg/m3	0.030U	---	---	---	---
Methylene chloride (Dichloromethane), mg/m3	0.030U	---	---	---	---
Methyl t-butyl ether (MTBE), mg/m3	0.030U	---	---	---	---
Styrene, mg/m3	0.030U	---	---	---	---
1,1,2,2-Tetrachloroethane, mg/m3	0.030U	---	---	---	---
Tetrachloroethene, mg/m3	0.030U	---	---	---	---
Toluene, mg/m3	0.030U	0.5000	0.5235	105 %	86-113

SEVERN TRENT SERVICES

STL Pensacola

LOG NO: C2-08604
Received: 27 AUG 02
Reported: 06 SEP 02

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Atlanta, GA 30346

Client PO. No.: 2916

Contract No.: CT0-0062
Project: CTO-0062, 103RD STREET MONTHLY AIR
Sampled By: Client
Code: 10062096

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR AIR SAMPLES	DATE/ TIME SAMPLED
08604-2	Method Blank	
08604-3	Lab Control Standard True Value	
08604-4	Lab Control Standard Result	
08604-5	Lab Control Standard % Recovery	
08604-6	LCS Accuracy Control Limit (%R)	

PARAMETER	08604-2	08604-3	08604-4	08604-5	08604-6
1,2,4-Trichlorobenzene, mg/m3	0.030U	---	---	---	---
1,1,1-Trichloroethane, mg/m3	0.030U	---	---	---	---
1,1,2-Trichloroethane, mg/m3	0.030U	---	---	---	---
Trichloroethene, mg/m3	0.030U	0.5000	0.5303	106 %	85-116
Trichlorofluoromethane, mg/m3	0.030U	---	---	---	---
1,1,2-Trichloro-1,2,2-trifl uoroethane, mg/m3	0.030U	---	---	---	---
1,2,4-Trimethylbenzene, mg/m3	0.030U	---	---	---	---
1,3,5-Trimethylbenzene, mg/m3	0.030U	---	---	---	---
Vinyl chloride, mg/m3	0.030U	---	---	---	---
o-Xylene, mg/m3	0.030U	---	---	---	---
m&p-Xylene, mg/m3	0.060U	---	---	---	---
Surrogate - 1,2-Dichloroethane-d4	97 %	0.5000	0.4982	100 %	61-140
Surrogate - Toluene-d8	98 %	0.5000	0.4839	97 %	90-109
Surrogate - 4-Bromofluorobenzene	102 %	0.5000	0.5031	101 %	87-112
Dilution Factor	1	---	1	---	---
Prep Date	09.03.02	---	09.03.02	---	---
Prep Time	09:12	---	09:50	---	---
Analysis Date	09.03.02	---	09.03.02	---	---
Analysis Time	09:25	---	10:03	---	---
Batch ID	MAA154	MAA154	MAA154	MAA154	MAA154
Prep Method	MOD-TO14	---	MOD-TO14	---	---
Analyst	BDH	---	BDH	---	---

SEVERN TRENT SERVICES

STL Pensacola

LOG NO: C2-08604
Received: 27 AUG 02
Reported: 06 SEP 02

Ms. Tatiana Romanova
CH2M Hill Constructors, Inc. (CCI)
115 Perimeter Center Place, NE Suite 700
Atlanta, GA 30346

Client PO. No.: 2916

Contract No.: CT0-0062
Project: CTO-0062, 103RD STREET MONTHLY AIR
Sampled By: Client
Code: 10062096

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR AIR SAMPLES	DATE/ TIME SAMPLED
08604-2	Method Blank	
08604-3	Lab Control Standard True Value	
08604-4	Lab Control Standard Result	
08604-5	Lab Control Standard % Recovery	
[illegible]	[illegible] Control Limit (%R)	

PARAMETER	08604-2	08604-3	08604-4	08604-5	08604-6

These test results meet all the requirements of NELAC. All questions regarding this test report should be directed to the STL Project Manager who signed this test report.
Data from any samples that do not meet client, federal, or state sample acceptance criteria (collection, preservation, or holding time) will be flagged, or noted on a corrective action form or case narrative, or addressed on the Project Sample Inspection Form (PSIF).
A statement of the estimated uncertainty of the test result is available upon request.

Rick Hayes, Project Manager

Final Page Of Report

Explanation of CLP Data Qualifiers
Organics

U: This flag indicates the compound was analyzed for but not detected. The CRQL shall be adjusted according to the equation listed in Exhibit D. CRQLs are listed in Exhibit C.

J: This flag indicates an estimated value. This flag is used (1) when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, (2) when the mass spectral and retention time data indicate the presence of a compound that meets the volatile and semivolatile GC/MS identification criteria, and the result is less than the CRQL but greater than zero, and (3) when the retention time data indicate the presence of a compound that meets the pesticide/Aroclor identification criteria, and the result is less than the CRQL but greater than zero. For example, if the sample quantitation limit is 10 µg/L, but a concentration of 3 µg/L is calculated, report it as 3J.
NOTE: The J flag is not used and the compound is not reported as being identified for Pesticide/Aroclor results less than the CRQL if the pesticide residue analysis expert determines that the peaks used for compound identification resulted from instrument noise or other interferences (column bleed, solvent contamination, etc.).

N: This flag indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds where the identification is based on a mass spectral library search. It is applied to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the N flag is not used.

P: This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns (see Form X). **The lower of the two values is reported on Form I and flagged with a P.**

C: This flag applies to pesticide results where the **identification** has been confirmed by GC/MS. If GC/MS confirmation was attempted but was unsuccessful, do **not** apply this flag; use a laboratory-defined flag instead (see the X qualifier).

B: This flag is used when the analyte is found in the associated method blank as well as in the sample. It indicates probable blank contamination and warns the data user to take appropriate action. This flag shall be used for a tentatively identified compound as well as for a positively identified target compound. The combination of flags BU or UB is expressly prohibited. Blank contaminants are flagged B only when they are detected in the sample.

E: This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis. If one or more compounds have a response greater than the upper level of the calibration range, the sample or extract shall be diluted and reanalyzed according to the specifications in Exhibit D; exceptions are also noted in Exhibit D. All such compounds with a response greater than the upper level of the calibration range shall have the concentration flagged with an E on Form I for the original analysis.
NOTE: For total xylene, where three isomers are quantified as two peaks, the calibration range of **each peak** shall be considered separately. For example, a diluted analysis is **not** required for total xylene unless the concentration of the peak representing the single isomer exceeds 200 µg/L or the peak representing the two co-eluting isomers on that GC column exceeds 400 µg/L.

D: If a sample or extract is reanalyzed at a higher dilution factor, for example when the concentration of an analyte exceeds the upper calibration range, the DL suffix is appended to the sample number on Form I for the more diluted sample, and **all** reported concentrations on that Form I are flagged with the D flag. This flag alerts data users that any discrepancies between the reported concentrations may be due to dilution of the sample or extract. NOTE 1: The D flag is not applied to compounds which are not detected in the sample analysis (i.e., compounds reported with the CRQL and the U flag). NOTE 2: Separate Form Is are required for reporting the original analysis (EPA Sample No. XXXXX) and the more diluted sample analysis (EPA Sample No. XXXXXDL) (i.e., the results from both analyses cannot be combined on a single Form I).

A: This flag indicates that a tentatively identified compound is a suspected aldol-condensation product.

X: Other specific flags may be required to properly define the results. If used, the flags shall be fully described, with the description attached to the sample data summary package and the SDG Narrative. Begin by using X. If more than one flag is required, use Y and Z as needed. If more than five qualifiers are required for a sample result, use the X flag to represent a combination of several flags. For instance,
the X flag might combine the A, B, and D flags for some samples. The laboratory-defined flags **are limited to** X, Y, and Z.

Explanation of CLP Data Qualifiers
Inorganic

C - Concentration Qualifier

U - The analyte was analyzed for but not detected (at or above the RL or the MDL, whichever is entered next to the "U" value).

B - The reported value is less than the STL Pensacola Reporting Limit (RL) or client-requested reporting limit (RL) but greater than or equal to the STL Pensacola Method Detection Limit (MDL).

Q - QC Qualifier

E - The reported value is estimated because of the presence of interference. An explanatory note shall be included in the case narrative.

N - The spiked sample recovery is not within control limits.

* - Duplicate analysis not within control limits

M - The duplicate injection precision was not met.

S - The reported value was determined by the Method of Standard Addition (MSA).

W - Post-digestion spike for Furnace AA analysis is out of control limits (85-115%), while sample absorbance is less than 50% of spike absorbance and post spike recovery is greater than or equal to 40%, the sample is flagged with a "W" and no further action is required.

+ - The Standard Additions Correlation Coefficient is <0.995.

NOTE: Entering "S," "W," or "+" is mutually exclusive. No combination of these qualifiers can appear in the same field for an analyte.

M - Method Qualifier

P - ICP
F - Furnace AA
CV - Cold Vapor AA (mercury)
AV - Automated Cold Vapor AA (mercury)

Revised 5/10/01

SEVERN TRENT STL

STL Pensacola Data Qualifiers for Final Report

B	The analyte was detected in the associated method blank and in the client's sample.
C	The compound has been quantitated against a one point calibration.
D	Recovery is not calculable due to dilution.
E	Estimated value because the analyte concentration exceeds the upper calibration range of the instrument or method.
I	Estimated value because the analyte concentration is less than the lower calibration range of the instrument but is at the method detection limit or greater than the method detection limit.
H	Sample and/or duplicate is below 5 X (times) the STL Reporting Limit and the absolute difference between the results exceeds the STL Reporting Limit.
J1	A sample surrogate or an LCS target compound recovered above the upper control limit (UCL). Compounds qualified with a J1 may be biased high.
J2	A sample surrogate or an LCS target compound recovered outside the lower control limit (LCL). Compounds qualified with a J2 may be biased low.
M1	A matrix effect was present.
M2	The MS and/or MSD %R or RPD was outside upper or lower control limits; not necessarily due to matrix effect.
N/C	Not Calculable; Sample spiked is > 4X spike concentration (may use this flag in place of negative numbers).
R1	Internal standard area exceeds the acceptance criteria
R2	Calibration verification exceeds the acceptance criteria.
S1	The Method of Standard Additions (MSA) has been performed on this sample.
T	Second-column or detector confirmation exceeded the SW-846 criteria of 40% RPD for this compound.
TIC	The compound is not included in the initial calibration curve. It is searched for qualitatively or as a Tentatively Identified Compound.
U or <	The analyte was not detected at or above the MDL or the RL, whichever is entered next to the "U" or "<".
W	Post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is less than 50% spike absorbance.

It is permissible to submit an Out-of-Control Events/Corrective Action form and/or Case Narrative in lieu of using above qualifiers.

When the laboratory receives a sample that does not meet EPA requirements for sample collection, preservation or holding time, the laboratory is required to reject the samples. The client must be notified and asked whether the lab should proceed with analysis. Data from any samples that do not meet sample acceptance criteria (collection, preservation and holding time), must be flagged, or noted on a corrective action form or case narrative, or addressed on the Project Sample Inspection Form (PSIF) in an unambiguous manner clearly defining the nature and substance of the variation. NPDES samples from North Carolina that do not meet EPA requirements for sample collection, preservation or holding time are non-reportable for NPDES compliance monitoring.

Abbreviations

ND	Not Detected at or above the STL Pensacola reporting limit (RL)
NS	Not Submitted
NA	Not Applicable
MDL	STL Pensacola Method Detection Limit
RL	STL Pensacola Reporting Limit
NoMS	Not enough sample provided to prepare and/or analyze a method-required matrix spike (MS) and/or duplicate (MSD)

Florida Projects Inorganic/Organic

Refer to FL DEP 62-160.700(7), Table 7 Data Qualifier Codes. FL DEP Rule 62-160.670(1)(h) states that laboratories shall include the analytical result for each analysis with applicable data qualifiers. FL DEP Rule 62-160.700(7), Table 7 lists the FL DEP data qualifiers. FL DEP Rule 62-160.700(3), Table 3 lists the Florida sites which require data qualifiers.

AFCEE QAPP Projects

Refer to AFCEE QAPP for appropriate data qualifiers (AFCEE QAPP Version will be specified by client for the project).

Arizona DEQ Projects

Any qualified data submitted to Arizona DEQ (ADEQ) after January 1, 2001 must be designated using the Arizona Data Qualifiers as developed by the Arizona ELAC technical subcommittee. Refer to the ADEQ qualifier list.

CLP and CLP-like Projects

Refer to referenced CLP Statement of Work (SOW) for explanation of data qualifiers. CLP SOW to be followed must be specified to client.

STL PENSACOLA
Certifications, Memberships & Affiliations

Alabama *Department of Environmental Management, Laboratory ID No. 40150 (Drinking Water by Reciprocity with FL), expires 06/30/03*

Arizona *Department of Health Services, Lab ID No. AZ0589 (Hazardous Waste & Wastewater), expires 01/11/03*

Arkansas *Department of Pollution Control and Ecology, (No Laboratory ID No. assigned by state) (Environmental), expires 02/20/03*

California *Department of Health Services,* ***ELAP*** *Laboratory ID No. 1-2510 (Hazardous Waste and Wastewater), expires 03/31/03*

Connecticut *Department of Health Services, Connecticut Lab Approval No. PH-0697 (D W, H W and Wastewater), expires 09/30/03*

Florida *DOH,* ***NELAP*** *Laboratory ID No. E81010 (Drinking Water, Hazardous Waste and Wastewater), expires 06/30/03*

Florida *DEP/DOH CompQAP # 980156*

Kansas *Department of Health & Environment,* ***NELAP*** *Laboratory ID No. E10253 (Wastewater and Hazardous Waste), expires 10/31/02*

Kentucky *NR&EPC, Laboratory ID No. 90043 (Drinking Water), expires 12/31/02.*

Louisiana *DEQ, LELAP,* ***NELAP*** *Laboratory ID No. 02075, Agency Interest ID 30748 (Environmental, expires 6/30/03)*

Maryland *DH&MH Laboratory ID No. 233 (Drinking Water by Reciprocity with Florida), expires 09/30/02*

Massachusetts *DEP, Laboratory ID No. M-FL094 (Wastewater), expires 06/30/03*

Michigan *Bureau of E&OccH, Laboratory ID No.9912 (Drinking Water by Reciprocity with Florida), expires 06/30/02*

New Hampshire *DES ELAP,* ***NELAP*** *Laboratory ID No. 250501 (Wastewater), expires 08/16/02*

New Jersey *DEP&E,* ***NELAP*** *Laboratory ID No. FL006 (Wastewater and Hazardous Waster), expires 06/30/03.*

New York State *Department of Health,* ***NELAP*** *Laboratory ID No. 11503 (WW and Solids/Hazardous Waste), expires 04/01/2003*

North Carolina *DENR, Laboratory ID No. 314 (Hazardous Waste and Wastewater), expires 12/31/02.*

North Dakota *DH&Consol Labs, Laboratory ID No. R-108 Wastewater and Hazardous Waste by Reciprocity with Florida), expires 06/30/02*

Oklahoma *Department of Environmental Quality, Laboratory ID No. 9810 (Hazardous Waste and Wastewater), expires 08/31/03*

Pennsylvania *Department of Environmental Resources,* ***NELAP*** *Laboratory ID No. 68-467 (Drinking Water & Wastewater), expires 12/01/02*

South Carolina *DH&EC, Laboratory ID No. 96026 (Wastewater & Solids/Hazardous Waste by Reciprocity with FL), expires 06/30/02*

Tennessee *Department of Health & Environment, Laboratory ID No. 02907 (Drinking Water), expires 08/03/04*

Virginia *Department of General Services, Laboratory ID No. 00008 (Drinking Water by Reciprocity with FL), expires 06/30/03.*

Washington *Department of Ecology, Laboratory ID No. C282 (Hazardous Waste and Wastewater), expires 09/14/02.*

West Virginia *DOE, Office of Water Resources, Laboratory ID No. 136 (Haz Waste and Wastewater), expires 04/30/02.*

American Industrial Hygiene Association ***(AIHA)*** *Accredited Laboratory, Laboratory ID No. 100704, expires April 1, 2004. Participant in AIHA sponsored Laboratory PAT Rounds*

EPA ICR *(Information Collection Rule) Approved Laboratory, Laboratory ID No. ICRFL031*

Naval Facilities Engineering Services Center ***(NFESC)****, expires July 5, 2002.*

United States Army Corps. of Engineers ***(USACE)****, MRD, expires January 5, 2003.*

STL Pensacola also has a foreign soil permit to accept soils from locations other than the continental United States. Permit No. S-37599

certlist\condcert.lst revised 08/13/02

C208604

FedEx Express *USA Airbill* FedEx Tracking Number 8347 0807 3543

Form I.D. No. 0200

1 From

Date 8/26/02

Sender's Name B. Canelos Phone 904 777-4812

Company CCI / JA Jones

Address 6219 Authority Ave Dept./Floor/Suite/Room

City Jacksonville State FL ZIP 32221

2 Your Internal Billing Reference

3 To

Recipient's Name Rick Hayes Phone 850 474-1001

Company STL - Labs

Address 3355 McLemore Dr.

To "HOLD" at FedEx location, print FedEx address. We cannot deliver to P.O. boxes or P.O. ZIP codes.

Address Dept./Floor/Suite/Room

City Pensacola State FL ZIP 32514

8347 0807 3543

4a Express Package Service *Packages up to 150 lbs.* Delivery commitment may be later in some areas

- [ ] FedEx Priority Overnight — Next business morning
- [x] FedEx Standard Overnight — Next business afternoon
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations
- [ ] FedEx 2Day — Second business day
- [ ] FedEx Express Saver — Third business day

FedEx Envelope rate not available. Minimum charge: One-pound rate

4b Express Freight Service *Packages over 150 lbs.* Delivery commitment may be later in some areas.

- [ ] FedEx 1Day Freight* — Next business day
- [ ] FedEx 2Day Freight — Second business day
- [ ] FedEx 3Day Freight — Third business day

* Call for Confirmation: _____

5 Packaging * Declared value limit $500

- [ ] FedEx Envelope*
- [ ] FedEx Pak* — Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak
- [x] Other

6 Special Handling

- [ ] **SATURDAY Delivery** — Available only for FedEx Priority Overnight and FedEx 2Day to select ZIP codes
- [ ] **HOLD Weekday** at FedEx Location — Not available for FedEx First Overnight
- [ ] **HOLD Saturday** at FedEx Location — Available only for FedEx Priority Overnight and FedEx 2Day to select locations

Does this shipment contain dangerous goods?

- [x] No
- [ ] Yes — As per attached Shipper's Declaration
- [ ] Yes — Shipper's Declaration not required
- [ ] Dry Ice — Dry Ice, 9, UN 1845 _____ x _____ kg
- [ ] Cargo Aircraft Only

Dangerous Goods (including Dry Ice) cannot be shipped in FedEx packaging.

7 Payment *Bill to:*

- [x] Sender — Acct. No. in Section 1 will be billed
- [ ] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

Total Packages	Total Weight	Total Declared Value†	Total Charges
1	15	$ .00	

Credit Card Auth.

†Our liability is limited to $100 unless you declare a higher value. See back for details.

8 Release Signature *Sign to authorize delivery without obtaining signature.*

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

Questions? Visit our Web site at fedex.com or call 1.800.Go.FedEx 800.463.3339.

446

NAS Cecil Field 103rd St., CTO-0062

STL Pensacola 13

STL Pensacola
PROJECT SAMPLE INSPECTION FORM

SEVERN TRENT SERVICES

Lab Order #: C208604 Date Received: 8/27/02

1. Was there a Chain of Custody? (Yes) No+
2. Was Chain of Custody properly filled out and relinquished? (Yes) No+
3. Were samples received cold? (Criteria: 2° - 6°C: STL-SOP) Yes No+ (N/A)
4. Were all samples properly labeled and identified? (Yes) No+
5. Did samples require splitting or compositing♦? Yes+ (No)
   Req By: PM Client Other♦
6. Were samples received in proper containers for analysis requested? (Yes) No+
7. Were all sample containers received intact? (Yes) No+
8. Were samples checked for preservative? *(Check pH of all H_2O requiring preservative (STL-PN SOP 917) except VOA vials that require zero headspace)*+ Yes No+ (N/A)
9. Is there sufficient volume for analysis requested? Yes No+ (N/A) (Gen)
10. Were samples received within Holding Time? (REFER TO STL-SOP 1040) (Yes) No+
11. Is Headspace visible > ¼" in diameter in VOA vials?* If any headspace is evident, comment in out-of-control section. Yes+ No (N/A)
12. If sent, were matrix spike bottles returned? Yes No+ (N/A)
13. Was Project Manager notified of problems? (initials:_____) Yes No+ (N/A)

Airbill Number(s): 8347 0807 3543

Shipped By: Fed Ex

Cooler Number(s): CAN #1 285

Shipping Charges: N/A

Cooler Weight(s): 15 #

Cooler Temp(s) (°C): N/A

(LIST THERMOMETER NUMBER(S) FOR VERIFICATION)

Out of Control Events and Inspection Comments:

(USE BACK OF PSIF FOR ADDITIONAL NOTES AND COMMENTS)

Inspected By: MAS Date: 8/27/02 Logged By: [illegible] Date: 8/28/02

♣ *Note all Out-of-Control and/or questionable events on Comment Section of this form. For holding times, the analytical department will flag immediate hold time samples(pH, Dissolved O_2, Residual CL) as out of hold time, therefore, these samples will not be documented on this PSIF.*

♦ *If Other, note who requested the splitting or compositing of samples on the Comment Section of this form. All volatile samples requested to be split or composited must be done in the Volatile Lab. Document: "Volatile sample values may be compromised due to sample splitting (compositing)"*

\+ *All preservatives for the State of North Carolina, the State of New York, and other requested samples are to be recorded on the sheet provided to record pH results (STL-SOP 938, section 2.2.9).*

* *According to EPA, ¼" of headspace is allowed in 40 ml vials requiring volatile analysis, however, STL makes it policy to record any headspace as out-of-control (STL-SOP 938, section 2.2.12).*

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

C208 604

CHAIN-OF-CUSTODY RECORD

COC NUMBER
163151-056

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	163151	STL - Pensacola Rick Hayes	Bill Canelos J.A Jones Env. Services	6219 Authority Road, Jacksonville, FL 32221 PH: (904) 7774812 FAX: (904) 7774262
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	0062	2916	Christelle Newsome / 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.)
Bill Canelos	Ph:(904)777-4812 Fax:(904) 777-4262	Ph: (850) 474-1001 Fax: (850) 4782671		

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 TO-14										SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	062-SVE-E-A-0821-02-27	SVE Effluent	AIR	08/21/02	15:45	III/C	14 Day	1							285			Grab	Summa Canister	1
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				

SAMPLER(S) AND COMPANY: (please print)	COURIER AND SHIPPING NUMBER:	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:
Sean Smith J.A. Jones Environmental Services	Federal Express TRK # 8347 0807 3543	

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature:			Printed Name and Signature:		
Bill Canelos Bill Canelos	8/26/02	16:00	Federal Express	8/26/02	16:00
Printed Name and Signature:			Printed Name and Signature:		
			Mark Swafford / Mark Swafford	8/27 02	914
Printed Name and Signature:			Printed Name and Signature:		

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

Form CC1001, Rev 02/00

NAS Cecil Field 103rd St., CTO-0062

STL Pensacola

15

Attach one file Label here

CH2M-CONST-GA C208604
CH2M Hill Constructors, Inc. (CCI)

SAMPLE CHECK LIST
STL Pensacola

Paperwork by: JLEE
Labeled by: JLE
Delivered by: JLE

Type of Container	Wet Chem	Metals	Extractions	Organics/ Special Projects	VOA	GCMS	Preservative	Number of Containers	Initials	Date	Time
1/2 Gal Plastic											
32 oz. Plastic											
16 oz. Plastic											
8 oz. Plastic											
5g Encore											
25g Encore											
Whirlpak Bag											
Sterile Cup											
1L Amber											
500 ml Amber											
250 ml Amber											
120 ml Amber											
40 ml Vial											
2 oz. W/M											
4 oz. W/M											
8 oz. W/M											
16 oz. W/M											
32 oz. W/M											
Air Canister						✓	Ø	1			
Air Bag											
Tube/Cartridge											
Plastic Bag											
Acknowledgment											
COMMENTS											

C208604

FedEx Express USA Airbill

FedEx Tracking Number 8347080735 43

Form I.D. No. 0200

1 From

Date 8/26/02 [redacted]

Sender's Name B. Canales Phone 904 777-4812

Company CCI / JA Jones

Address 6219 Authority Ave Dept./Floor/Suite/Room

City Jacksonville State FL ZIP 32221

2 Your Internal Billing Reference

3 To

Recipient's Name Rick Hayes Phone 850 474-1001

Company STL - Labs

Address 3355 McLemore Dr.

To "HOLD" at FedEx location, print FedEx address. We cannot deliver to P.O. boxes or P.O. ZIP codes.

Address Dept./Floor/Suite/Room

City Pensacola State FL ZIP 32514

8347 0807 3543

4a Express Package Service *Packages up to 150 lbs.* Delivery commitment may be later in some areas

- [ ] FedEx Priority Overnight — Next business morning
- [X] FedEx Standard Overnight — Next business afternoon
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations
- [ ] FedEx 2Day — Second business day
- [ ] FedEx Express Saver — Third business day

FedEx Envelope rate not available. Minimum charge: One-pound rate

4b Express Freight Service *Packages over 150 lbs.* Delivery commitment may be later in some areas

- [ ] FedEx 1Day Freight* — Next business day
- [ ] FedEx 2Day Freight — Second business day
- [ ] FedEx 3Day Freight — Third business day

* Call for Confirmation

5 Packaging * Declared value limit $500

- [ ] FedEx Envelope*
- [ ] FedEx Pak* — Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak
- [X] Other

6 Special Handling

- [ ] SATURDAY Delivery — Available only for FedEx Priority Overnight and FedEx 2Day to select ZIP codes
- [ ] HOLD Weekday at FedEx Location — Not available for FedEx First Overnight
- [ ] HOLD Saturday at FedEx Location — Available only for FedEx Priority Overnight and FedEx 2Day to select locations

Does this shipment contain dangerous goods?

- [X] No
- [ ] Yes — As per attached Shipper's Declaration
- [ ] Yes — Shipper's Declaration not required
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg
- [ ] Cargo Aircraft Only

Dangerous Goods (including Dry Ice) cannot be shipped in FedEx packaging

7 Payment *Bill to:*

- [X] Sender — Acct. No. in Section 1 will be billed
- [ ] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

[redacted]

Total Packages	Total Weight	Total Declared Value†	Total Charges
1	1 lb	$ .00	

†Our liability is limited to $100 unless you declare a higher value. See back for details

Credit Card Auth

8 Release Signature *Sign to authorize delivery without obtaining signature*

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

Questions? Visit our Web site at fedex.com or call 1.800.Go.FedEx 800.463.3339

446

AIR VOLATILE CASE NARRATIVE

LABORATORY NAME: STL PENSACOLA
CASE NUMBER: NA
SDG#: 208604
PROJECT NAME: N.A.S. Cecil Field, 103rd Street

RECEIVED: August 27, 2002

CLIENT ID#	STL ID #	STL SAMPLE NAME IN PACKAGE
062-SVE-E-A-0821-02-27	208604-1	SVEEA

The sample was received in good condition. No MS/MSD was analyzed due to matrix type. Due to software limitations there are no Form I's.

Larry Dilmore
GC/MS SUPERVISOR
September 4, 2002

2A

AIR VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name : STL PENSACOLA Contract : NA
Project : NA Site : NA Location : NA Group : NA
Lab File ID (Standard): CM0903A.D Date Analyzed : 3 Sep 2002
Instrument ID : MARILYN Time Analyzed : 8:47 am
GC Column : CAP ID : MARI Heated Purge (Y:N) : N
Level :

File	Sample	SMC1 #	SMC2 #	SMC3 #	SMC4 #	SMC5 #	SMC6 #	TOTAL OUT
86041	062SVEEA0821022	106	102	103	0	0	0	0
MA154ABK	VBLKMA\ DAILY M	97	98	102	0	0	0	0
MA154LCS	VLCSMA\ BATCH #	100	97	101	0	0	0	0

		QC Limits
SMC1	= 1,2-Dichloroethane d4 SURR#1	(61 -140)
SMC2	= Toluene-d8 SURR#2	(90 -109)
SMC3	= 4-Bromofluorobenzene SURR#3	(87 -112)
SMC4	=	(0 -0)
SMC5	=	(0 -0)
SMC6	=	(0 -0)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

TO-14 NG-MG/M3 CONVERSION		Sample #	3	4	5	6
order #	208604					
Batch	MAA154	Actual	mg/m3	mg/m3		
		ng result	TRUE	RESULT	% REC	rec limit
Benzene		264.4	0.5000	0.5288	106%	87-116%
Chlorobenzene		270.52	0.5000	0.5410	108%	88-111%
1,1-Dichloroethene		249.86	0.5000	0.4997	100%	58-138%
Toluene		261.73	0.5000	0.5235	105%	86-113%
Trichloroethene		265.14	0.5000	0.5303	106%	85-116%
1,2-Dichloroethane-d4		249.12	0.5000	0.4982	100%	61-140%
Toluene-d8		241.97	0.5000	0.4839	97%	90-109%
4-Bromofluorobenzene		251.53	0.5000	0.5031	101%	87-112%

LCS Blank Summary Report

Data File : D:\HPCHEM\1\DATA\MARILYN\2M0903A\MA154LCS.D Vial: 3
Acq On : 3 Sep 2002 10:03 am Operator: BDH
Sample : VLCSMA\ BATCH #154 LCS 50ppb/250ng Inst : MARILYN
Misc : Pi/Pf=1 MA154ABK 2nd SOURCE Multiplr: 1.00
MS Integration Params: rteint.p
Matrix : WATER

Method : D:\HPCHEM\1\METHODS\MARILYN\CRV080502 TO14\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Tue Sep 03 16:22:53 2002
Response via : Multiple Level Calibration

		Compound Name	Conc	Added	Recv(%)	QC Range	Q
10)	MC	1,1-Dichloroethene	249.86	250.00	99.95	58 to 138%	[ ]
27)	M	Benzene	264.40	250.00	105.76	87 to 116%	[ ]
28)	M	Trichloroethene	265.14	250.00	106.05	85 to 116%	[ ]
33)	MC	Toluene	261.73	250.00	104.69	86 to 113%	[ ]
39)	MP	Chlorobenzene	270.52	250.00	108.21	88 to 111%	[ ]

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKMA

Lab Name: STL PENSACOLA Contract: N/A

Lab Code: STL PN Case No.: N/A SAS No.: N/A SDG No.: C208604

Lab File ID: MA154ABK.D Lab Sample ID: VBLKMA\ DAILY M

Date Analyzed: 9/3/02 Time Analyzed: 9:25

GC Column: CAP ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: MARILYN

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS AND 2ND	VLCSMA\ BATCH #154 L	MA154LCS.D	10:03
02	SVEEA	062SVEEA08210227\ 86	86041.D	12:32

COMMENTS

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL PENSACOLA Contract: N/A

Lab Code: STL PN Case No.: N/A SAS No.: N/A SDG No.: C208604

Lab File ID: BFM0805A.D BFB Injection Date: 8/5/02

Instrument ID: MARILYN BFB Injection Time: 13:21

GC Column: CAP ID: 0.53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	15.9
75	30.0 - 66.0% of mass 95	42.2
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	78.6
175	4.0 - 9.0% of mass 174	5.3 (6.8)1
176	93.0 - 101.0% of mass 174	76.3 (97.0)1
177	5.0 - 9.0% of mass 176	4.9 (6.4)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	VSTD0250	250NG/10UL/50PPB INITI	CMA0250.D	8/5/02	14:33
02	VSTD0025	25NG/1UL/5PPB INITIAL	CMA0025.D	8/5/02	15:11
03	VSTD0100	100NG/4UL/20PPB INITI	CMA0100.D	8/5/02	15:48
04	VSTD0500	500NG/20UL/100PPB INI	CMA0500.D	8/5/02	16:23
05	VSTD1000	1000NG/40UL/200PPB IN	CMA1000.D	8/5/02	17:00
06	VSTD1500	1500NG/60UL/300PPB IN	CMA1500.D	8/5/02	17:38

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL PENSACOLA Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 208604

Lab File ID: CM0903A.D BFB Injection Date: 9/03/02

Instrument ID: MARILYN BFB Injection Time: 08:47

GC Column: CAP Heated Purge: (Y/N) N

M/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.0
75	30.0 - 66.0% of mass 95	41.1
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 95	0.0 (0.00)1
174	50.0 - 120.0% of mass 95	76.5
175	4.0 - 9.0% of mass 174	5.7 (7.5)1
176	93.0 - 101.0% of mass 174	75.9 (99.2)1
177	5.0 - 9.0% of mass 176	4.7 (6.2)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
1.	VSTD0250MA	VSTD050\DAILY CALI	CM0903A.D	9/03/02	08:47
2.	VBLKMA	VBLKMA\DAILY METHO	MA154ABK.D	9/03/02	09:25
3.	LCS AND 2ND	VLCSMA\BATCH#154 L	MA154LCS.D	9/03/02	10:03
4.	SVEEA	062SVEEA08210227\8	86041.D	9/03/02	12:32

page 1 of 1

FORM V - VOA

Response Factor Report MARILYN

Method : D:\HPCHEM\1\METHODS\MARILYN\CRV080502 TO14\TO14S.M (RTE Inte
Title : TO14
Last Update : Tue Sep 03 16:09:28 2002
Response via : Initial Calibration

Calibration Files
25 =CMA0025.D 250 =CMA0250.D 1500 =CMA1500.D
1000 =CMA1000.D 100 =CMA0100.D 500 =CMA0500.D

		Compound	25	250	1500	1000	100	500	Avg	%RSD
1)	I	Bromochloromethane IS	----------ISTD----------							
2)		Dichlorodifluoromet	0.448	0.847	0.878	0.778	0.867	0.840	-----	
							L	M= 0.856	R^2=0.995	
								B= -0.039		
3)		Dichlorotetrafluoro	0.998	1.337	1.160	1.246	1.143	1.322	1.201	10.63
4)	P	Chloromethane	0.682	0.744	0.862	0.839	0.633	0.756	0.753	11.71
5)	C	Vinyl chloride	0.505	0.728	0.693	0.698	0.616	0.708	0.658	12.82#
6)		Bromomethane	0.629	0.584	0.674	0.678	0.529	0.658	0.625	9.36
7)		Chloroethane	0.241	0.488	0.428	0.457	0.407	0.475	-----	
							L	M= 0.433	R^2=0.997	
								B= 0.033		
8)		Trichlorofluorometh	2.161	2.739	2.489	2.644	2.251	2.766	2.508	10.17
9)		1,1,2-Trichlorotrif	1.789	2.282	2.376	2.383	1.842	2.323	2.166	12.67
10)	MC	1,1-Dichloroethene	0.996	1.171	1.146	1.199	0.939	1.190	1.107	10.02#
11)		Iodomethane							0.000	-1.00
12)		Methylene chloride	1.226	1.379	1.343	1.407	1.191	1.387	1.322	6.88
13)		Carbon disulfide	2.724	3.175	3.135	3.222	2.667	3.218	3.024	8.49
14)		methyl-Tert-Butyl E	1.820	2.167	2.349	2.371	1.852	2.251	2.135	11.38
15)		trans-1,2-Dichloroe	1.126	1.340	1.369	1.387	1.083	1.359	1.278	10.61
16)		n-Hexane	1.292	1.249	1.327	1.321	1.080	1.272	1.257	7.27
17)	P	1,1-Dichloroethane	1.725	2.159	2.225	2.254	1.778	2.175	2.053	11.52
18)		cis-1,2-Dichloroeth	1.375	1.734	1.781	1.826	1.410	1.743	1.645	12.08
19)	C	Chloroform	2.037	2.613	2.645	2.689	2.141	2.599	2.454	11.67#
20)		Isooctane	3.678	4.139	4.436	4.396	3.403	4.232	4.047	10.29
21)		1,1,1-Trichloroetha	1.887	2.369	2.414	2.466	1.889	2.387	2.235	12.12
22)		Carbon tetrachlorid	1.852	2.397	2.490	2.506	1.916	2.432	2.266	13.19
23)	S	1,2-Dichloroethane	1.130	1.080	1.133	1.156	1.075	1.113	1.114	2.86
24)		1,2-Dichloroethane	1.050	1.255	1.318	1.347	1.057	1.268	1.216	10.71
25)		1,2-Dibromoethane	1.923	2.242	2.266	2.324	1.845	2.247	2.141	9.48
26)	I	1,4-Difluorobenzene I	----------ISTD----------							
27)	M	Benzene	0.635	0.738	0.733	0.729	0.644	0.738	0.703	7.00
28)	M	Trichloroethene	0.348	0.423	0.423	0.421	0.359	0.422	0.399	8.91
29)	C	1,2-Dichloropropane	0.254	0.313	0.316	0.314	0.272	0.311	0.297	9.03#
30)		Bromodichloromethan	0.586	0.715	0.712	0.709	0.621	0.707	0.675	8.38
31)		cis-1,3-Dichloropro	0.397	0.473	0.481	0.479	0.404	0.471	0.451	8.69
32)	S	Toluene-d8 SURR#2	0.747	0.729	0.731	0.741	0.745	0.736	0.738	0.98
33)	MC	Toluene	0.389	0.470	0.470	0.471	0.399	0.476	0.446	9.01#
34)		trans-1,3-Dichlorop	0.332	0.395	0.405	0.405	0.341	0.401	0.380	8.94
35)		1,1,2-Trichloroetha	0.271	0.310	0.311	0.309	0.262	0.307	0.295	7.56
36)	I	Chlorobenzene-d5 IS#3	----------ISTD----------							
37)		Tetrachloroethene	0.456	0.579	0.596	0.580	0.481	0.586	0.546	11.23

L = Linear LO = Linear+Origin Q = Quad QO = Quad+Origin R = Corr. Coef
(#) = Out of Range ### Number of calibration levels exceeded format ###

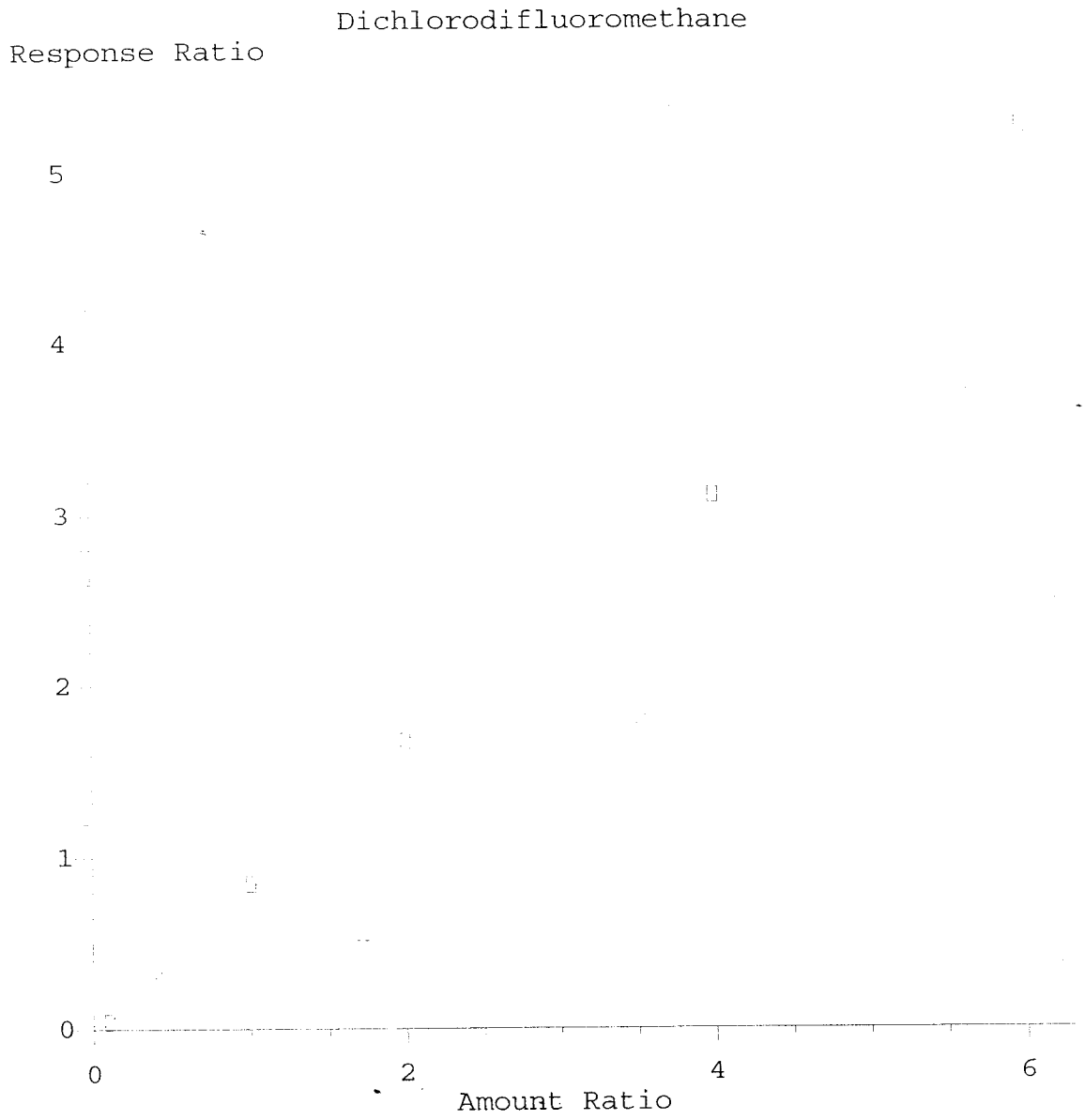
Response Factor Report MARILYN

Method : D:\HPCHEM\1\METHODS\MARILYN\CRV080502 TO14\TO14S.M (RTE Inte
Title : TO14
Last Update : Tue Sep 03 16:09:28 2002
Response via : Initial Calibration

Calibration Files
25 =CMA0025.D 250 =CMA0250.D 1500 =CMA1500.D
1000 =CMA1000.D 100 =CMA0100.D 500 =CMA0500.D

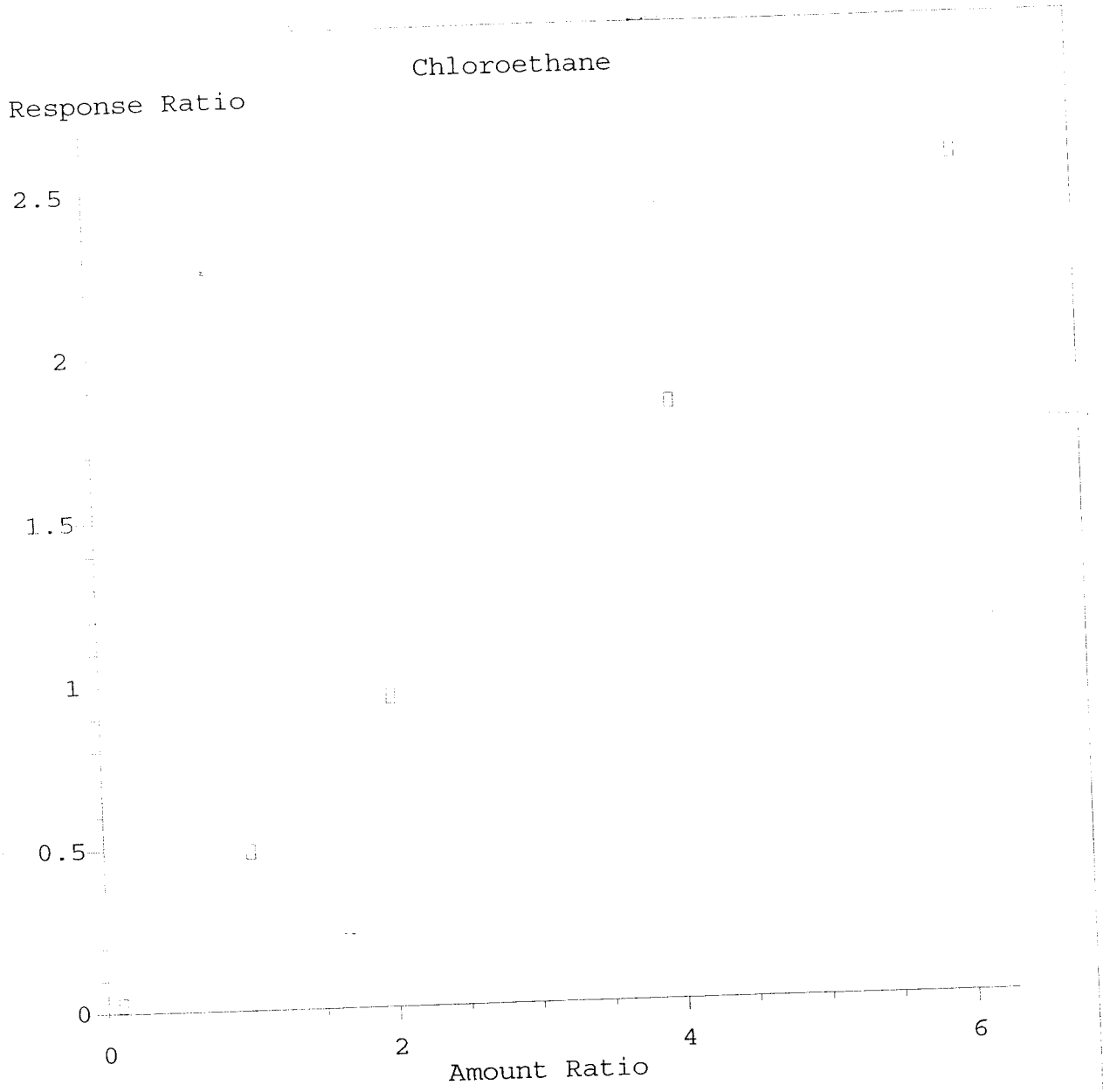
		Compound	25	250	1500	1000	100	500	Avg	%RSD
38)		Dibromochloromethan	0.649	0.779	0.772	0.758	0.649	0.751	0.726	8.34
39)	MP	Chlorobenzene	0.728	0.947	0.936	0.934	0.788	0.947	0.880	10.96
40)	C	Ethylbenzene	0.284	0.366	0.374	0.368	0.305	0.374	0.345	11.54#
41)		m,p-Xylene	0.342	0.454	0.448	0.455	0.371	0.453	0.421	11.96
42)		o-Xylene	0.314	0.431	0.433	0.434	0.348	0.433	0.399	13.44
43)		Styrene	0.525	0.727	0.728	0.738	0.589	0.738	0.674	13.81
44)	P	Bromoform	0.720	0.842	0.766	0.772	0.684	0.801	0.764	7.35
45)	P	1,1,2,2-Tetrachloro	0.656	0.724	0.616	0.639	0.599	0.681	0.652	6.99
46)	S	4-Bromofluorobenzen	0.785	0.776	0.748	0.762	0.785	0.783	0.773	1.96
47)		1,4-Dichloro-2-bute	0.139	0.166	0.157	0.158	0.137	0.164	0.153	8.17
48)		4-Ethyltoluene	0.871	1.059	1.035	1.062	0.834	1.135	0.999	11.92
49)		[illegible]methylbenz	0.577	0.882	0.774	0.800	0.732	0.848	0.769	14.01
50)		2-Chlorotoluene	0.856	1.052	1.063	1.089	0.898	1.077	1.006	10.07
51)		1,2,4-Trimethylbenz	0.614	0.824	0.827	0.851	0.674	0.849	0.773	13.24
52)		1,3-Dichlorobenzene	0.525	0.702	0.682	0.705	0.580	0.710	0.651	12.06
53)		1,4-Dichlorobenzene	0.531	0.715	0.701	0.729	0.611	0.738	0.671	12.30
54)		1,2-Dichlorobenzene	0.486	0.678	0.619	0.646	0.549	0.650	0.605	12.04
55)		1,2,4-Trichlorobenz	0.317	0.445	0.460	0.444	0.353	0.455	0.412	14.87
56)		Napthalene	0.489	0.633	0.669	0.650	0.465	0.601	0.585	14.86
57)		Hexachlorobutadiene	0.248	0.351	0.346	0.363	0.291	0.359	0.326	14.19

L = Linear LO = Linear+Origin Q = Quad QO = Quad+Origin R = Corr. Coef
(#) = Out of Range ### Number of calibration levels exceeded format ###



Resp Ratio = 8.56e-001 * Amt - 3.89e-002
Coef of Det (r^2) = 0.995 Curve Fit: Linear

Method Name: D:\HPCHEM\1\METHODS\MARILYN\CRV080502 TO14\TO14S.M
Calibration Table Last Updated: Tue Sep 03 16:09:28 2002



Resp Ratio = 4.33e-001 * Amt + 3.32e-002
Coef.of Det (r^2) = 0.997 Curve Fit: Linear

Method Name: D:\HPCHEM\1\METHODS\MARILYN\CRV080502 TO14\TO14S.M
Calibration Table Last Updated: Tue Sep 03 16:09:28 2002

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\MARILYN\2M0903A\CM0903A.D Vial: 1
Acq On : 3 Sep 2002 8:47 am Operator: BDH
Sample : VSTD050\ DAILY CALIBRATION CHECK Inst : MARILYN
Misc : Pi/Pf=1 MA154ABK 250ng Multiplr: 1.00
MS Integration Params: rteint.p

Method : D:\HPCHEM\1\METHODS\MARILYN\CRV080502 TO14\TO14S.M (RTE Integ
Title : TO14
Last Update : Wed Sep 04 08:10:43 2002
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 2% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane IS#1	1.000	1.000	0.0	91	0.00
2		Dichlorodifluoromethane	0.776	0.958	-23.5#	103	0.00
3		Dichlorotetrafluoroethane	1.201	1.426	-18.7#	97	0.00
4	P	Chloromethane	0.753	0.764	-1.5	93	0.00
5	C	Vinyl chloride	0.658	0.766	-16.4#	96	0.00
6		Bromomethane	0.625	0.653	-4.5#	101	0.00
7		Chloroethane	0.416	0.540	-29.8#	100	0.00
8		Trichlorofluoromethane	2.508	2.777	-10.7#	92	0.00
9		1,1,2-Trichlorotrifluoroeth	2.166	2.367	-9.3#	94	0.00
10	MC	1,1-Dichloroethene	1.107	1.196	-8.0#	93	0.00
11		Iodomethane	0.000	0.000	0.0	151#	0.00
12		Methylene chloride	1.322	1.445	-9.3#	95	0.00
13		Carbon disulfide	3.024	3.255	-7.6#	93	0.00
14		methyl-Tert-Butyl Ether	2.135	2.243	-5.1#	94	0.00
15		trans-1,2-Dichloroethene	1.278	1.380	-8.0#	93	0.00
16		n-Hexane	1.257	1.310	-4.2#	95	0.00
17	P	1,1-Dichloroethane	2.053	2.229	-8.6#	94	0.00
18		cis-1,2-Dichloroethene	1.645	1.788	-8.7#	94	0.00
19	C	Chloroform	2.454	2.714	-10.6#	94	0.00
20		Isooctane	4.047	4.317	-6.7#	95	0.00
21		1,1,1-Trichloroethane	2.235	2.424	-8.5#	93	0.00
22		Carbon tetrachloride	2.266	2.450	-8.1#	93	0.00
23	S	1,2-Dichloroethane d4 SURR#	1.114	1.097	1.5	92	0.00
24		1,2-Dichloroethane	1.216	1.297	-6.7#	94	0.00
25		1,2-Dibromoethane	2.141	2.325	-8.6#	94	0.00
26	I	1,4-Difluorobenzene IS#2	1.000	1.000	0.0	92	0.00
27	M	Benzene	0.703	0.792	-12.7#	98	0.00
28	M	Trichloroethene	0.399	0.444	-11.3#	96	0.00
29	C	1,2-Dichloropropane	0.297	0.321	-8.1#	94	0.00
30		Bromodichloromethane	0.675	0.748	-10.8#	96	0.00
31		cis-1,3-Dichloropropene	0.451	0.490	-8.6#	95	0.00
32	S	Toluene-d8 SURR#2	0.738	0.736	0.3	92	0.00
33	MC	Toluene	0.446	0.489	-9.6#	95	0.00
34		trans-1,3-Dichloropropene	0.380	0.409	-7.6#	95	0.00
35		1,1,2-Trichloroethane	0.295	0.321	-8.8#	95	0.00
36	I	Chlorobenzene-d5 IS#3	1.000	1.000	0.0	94	0.00
37		Tetrachloroethene	0.546	0.595	-9.0#	97	0.00
38		Dibromochloromethane	0.726	0.792	-9.1#	96	0.00
39	MP	Chlorobenzene	0.880	0.981	-11.5#	97	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\MARILYN\2M0903A\CM0903A.D Vial: 1
Acq On : 3 Sep 2002 8:47 am Operator: BDH
Sample : VSTD050\ DAILY CALIBRATION CHECK Inst : MARILYN
Misc : Pi/Pf=1 MA154ABK 250ng Multiplr: 1.00
MS Integration Params: rteint.p

Method : D:\HPCHEM\1\METHODS\MARILYN\CRV080502 TO14\TO14S.M (RTE Integ
Title : TO14
Last Update : Wed Sep 04 08:10:43 2002
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 2% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
40	C	Ethylbenzene	0.345	0.376	-9.0#	97	0.00
41		m,p-Xylene	0.421	0.468	-11.2#	97	0.00
42		o-Xylene	0.399	0.441	-10.5#	96	0.00
43		Styrene	0.674	0.754	-11.9#	98	0.00
44	P	Bromoform	0.764	0.833	-9.0#	93	0.00
45	P	1,1,2,2-Tetrachloroethane	0.652	0.691	-6.0#	90	0.00
46	S	4-Bromofluorobenzene SURR#3	0.773	0.773	0.0	94	0.00
47		1,4-Dichloro-2-butene	0.153	0.159	-3.9#	90	0.00
48		4-Ethyltoluene	0.999	1.017	-1.8	90	0.00
49		1,3,5-Trimethylbenzene	0.769	1.005	-30.7#	107	0.00
50		2-Chlorotoluene	1.006	1.127	-12.0#	101	0.00
51		1,2,4-Trimethylbenzene	0.773	0.877	-13.5#	100	0.00
52		1,3-Dichlorobenzene	0.651	0.734	-12.7#	98	0.00
53		1,4-Dichlorobenzene	0.671	0.764	-13.9#	101	0.00
54		1,2-Dichlorobenzene	0.605	0.701	-15.9#	97	0.00
55		1,2,4-Trichlorobenzene	0.412	0.496	-20.4#	105	0.00
56		Napthalene	0.585	0.615	-5.1#	91	0.00
57		Hexachlorobutadiene	0.326	0.376	-15.3#	101	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\MARILYN\2M0903A\CM0903A.D Vial: 1
Acq On : 3 Sep 2002 8:47 am Operator: BDH
Sample : VSTD050\ DAILY CALIBRATION CHECK Inst : MARILYN
Misc : Pi/Pf=1 MA154ABK 250ng Multiplr: 1.00
MS Integration Params: rteint.p

Method : D:\HPCHEM\1\METHODS\MARILYN\CRV080502 TO14\TO14S.M (RTE Integ
Title : TO14
Last Update : Wed Sep 04 08:10:43 2002
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 2% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Bromochloromethane IS#1	250.000	250.000	0.0	91	0.00
2		Dichlorodifluoromethane	250.000	292.895	-17.2#	103	0.00
3		Dichlorotetrafluoroethane	250.000	296.940	-18.8#	97	0.00
4	P	Chloromethane	250.000	253.834	-1.5	93	0.00
5	C	Vinyl chloride	250.000	291.265	-16.5#	96	0.00
6		Bromomethane	250.000	261.078	-4.4#	101	0.00
7		Chloroethane	250.000	295.718	-18.3#	100	0.00
8		Trichlorofluoromethane	250.000	276.819	-10.7#	92	0.00
9		1,1,2-Trichlorotrifluoroeth	250.000	273.182	-9.3#	94	0.00
10	MC	1,1-Dichloroethene	250.000	270.111	-8.0#	93	0.00
11		Iodomethane	-1.000	0.000	0.0	151	0.00
12		Methylene chloride	250.000	273.307	-9.3#	95	0.00
13		Carbon disulfide	250.000	269.100	-7.6#	93	0.00
14		methyl-Tert-Butyl Ether	250.000	262.679	-5.1#	94	0.00
15		trans-1,2-Dichloroethene	250.000	269.969	-8.0#	93	0.00
16		n-Hexane	250.000	260.530	-4.2#	95	0.00
17	P	1,1-Dichloroethane	250.000	271.467	-8.6#	94	0.00
18		cis-1,2-Dichloroethene	250.000	271.784	-8.7#	94	0.00
19	C	Chloroform	250.000	276.512	-10.6#	94	0.00
20		Isooctane	250.000	266.678	-6.7#	95	0.00
21		1,1,1-Trichloroethane	250.000	271.045	-8.4#	93	0.00
22		Carbon tetrachloride	250.000	270.339	-8.1#	93	0.00
23	S	1,2-Dichloroethane d4 SURR#	250.000	246.124	1.6	92	0.00
24		1,2-Dichloroethane	250.000	266.657	-6.7#	94	0.00
25		1,2-Dibromoethane	250.000	271.504	-8.6#	94	0.00
26	I	1,4-Difluorobenzene IS#2	250.000	250.000	0.0	92	0.00
27	M	Benzene	250.000	281.790	-12.7#	98	0.00
28	M	Trichloroethene	250.000	278.317	-11.3#	96	0.00
29	C	1,2-Dichloropropane	250.000	270.756	-8.3#	94	0.00
30		Bromodichloromethane	250.000	277.000	-10.8#	96	0.00
31		cis-1,3-Dichloropropene	250.000	271.682	-8.7#	95	0.00
32	S	Toluene-d8 SURR#2	250.000	249.442	0.2	92	0.00
33	MC	Toluene	250.000	274.106	-9.6#	95	0.00
34		trans-1,3-Dichloropropene	250.000	269.027	-7.6#	95	0.00
35		1,1,2-Trichloroethane	250.000	272.138	-8.9#	95	0.00
36	I	Chlorobenzene-d5 IS#3	250.000	250.000	0.0	94	0.00
37		Tetrachloroethene	250.000	272.096	-8.8#	97	0.00
38		Dibromochloromethane	250.000	272.653	-9.1#	96	0.00
39	MP	Chlorobenzene	250.000	278.772	-11.5#	97	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\MARILYN\2M0903A\CM0903A.D Vial: 1
Acq On : 3 Sep 2002 8:47 am Operator: BDH
Sample : VSTD050\ DAILY CALIBRATION CHECK Inst : MARILYN
Misc : Pi/Pf=1 MA154ABK 250ng Multiplr: 1.00
MS Integration Params: rteint.p

Method : D:\HPCHEM\1\METHODS\MARILYN\CRV080502 TO14\TO14S.M (RTE Integ
Title : TO14
Last Update : Wed Sep 04 08:10:43 2002
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 2% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
40	C	Ethylbenzene	250.000	272.278	-8.9#	97	0.00
41		m,p-Xylene	500.000	556.517	-11.3#	97	0.00
42		o-Xylene	250.000	276.701	-10.7#	96	0.00
43		Styrene	250.000	279.705	-11.9#	98	0.00
44	P	Bromoform	250.000	272.659	-9.1#	93	0.00
45	P	1,1,2,2-Tetrachloroethane	250.000	264.802	-5.9#	90	0.00
46	S	4-Bromofluorobenzene SURR#3	250.000	249.834	0.1	94	0.00
47		1,4-Dichloro-2-butene	250.000	258.891	-3.6#	90	0.00
48		4-Ethyltoluene	250.000	254.328	-1.7	90	0.00
49		1,3,5-Trimethylbenzene	250.000	326.654	-30.7#	107	0.00
50		2-Chlorotoluene	250.000	280.147	-12.1#	101	0.00
51		1,2,4-Trimethylbenzene	250.000	283.559	-13.4#	100	0.00
52		1,3-Dichlorobenzene	250.000	282.099	-12.8#	98	0.00
53		1,4-Dichlorobenzene	250.000	284.966	-14.0#	101	0.00
54		1,2-Dichlorobenzene	250.000	289.878	-16.0#	97	0.00
55		1,2,4-Trichlorobenzene	250.000	300.503	-20.2#	105	0.00
56		Napthalene	250.000	263.188	-5.3#	91	0.00
57		Hexachlorobutadiene	250.000	288.040	-15.2#	101	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL PENSACOLA Contract: N/A

Lab Code: STL PN Case No.: N/A SAS No.: N/A SDG No.: C208604

Lab File ID (Standard): CM0903A.D Date Analyzed: 9/3/02

Instrument ID: MARILYN Time Analyzed: 8:47

GC Column: CAP ID: 0.53 (mm) Heated Purge: (Y/N) N

		IS1BCM AREA #	RT #	IS2DFB AREA #	RT #	IS3CLB AREA #	RT #
	12 HOUR STD	466027	11.07	1954517	12.99	1361909	20.24
	UPPER LIMIT	932054	11.57	3909034	13.49	2723818	20.74
	LOWER LIMIT	233014	10.57	977259	12.49	680955	19.74
	EPA SAMPLE NO.						
01	VBLKMA	464056	11.07	1898159	13.00	1307484	20.23
02	LCS AND 2ND	434263	11.09	1789711	13.01	1208180	20.25
03	SVEEA	352209	11.08	1643402	13.01	1167032	20.23

IS1 BCM = Bromochloromethane IS#

IS2 DFB = 1,4-Difluorobenzene IS#2

IS3 CLB = Chlorobenzene-d5 IS#3

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.

* Values outside of contract required QC limits

STL Pensacola / GCMS Volatiles Run Log

Date 8-5-02 Instrument ID : MARILYN Method : TO14 /8260AIR /8260WATER /624MOD New To14 Curve

Batch MA135 1 2 3 Batch _____ 1 2 3 37 B #8/6

IS# 8 -MSW- 34 - 1 TO14 8 -MSW- ~~32~~ - 1 AIR-SPK 8 -MSW- 36 - 2 Maint. _____

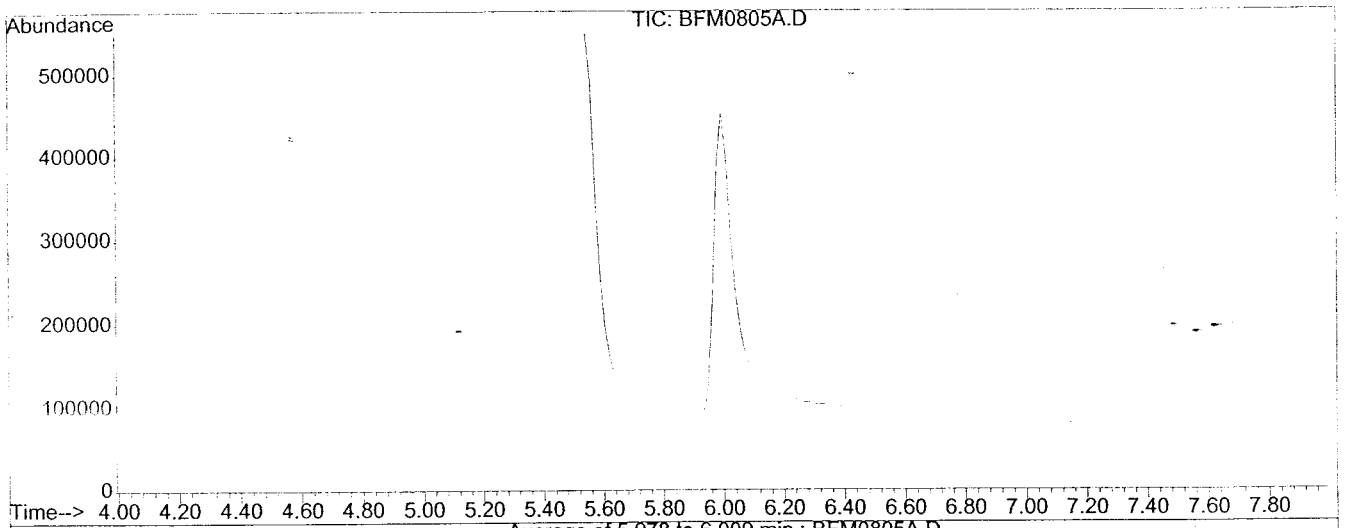
BFB 8 -MSW- 34 - 1 8260 -MSW- - W-SPK -MSW- -

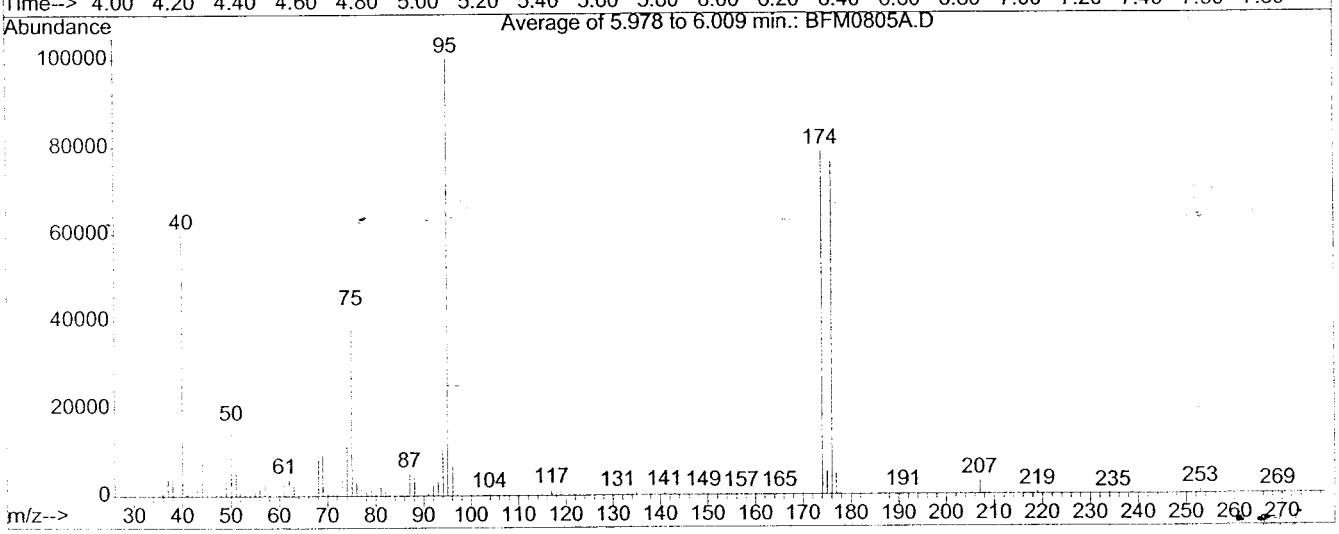
TIME	POS #	METH	FILE NAME/ SAMPLE ID	DIL.	RR	PRES	MATRIX	QC PASS** Yes	*INIT	COMMENTS
13:21	1	BFBSTL	BFM0805A	50ppb			W		BDH	Daily 12 hour BFB Tune
14:33	3	To14S.m	CMA0250	50ppb			W		BDH	Daily Cal Check / ~~BFB tune~~ BH 8/5 / 250ng ICAL too
13:55	2	To14S.m	MA135 A BK	ST						Daily Method Blank
18:17	9		M A135 LCS	50ppb						Batch# 135 LCS
15:11	4		CMA0025	5ppb		Y N				25ng ICAL
15:48	5		0100	20ppb		Y N				100ng
16:23	6		0500	100ppb		Y N				500ng
17:00	7		1000	200ppb		Y N				2000ng
17:38	8		1500	300ppb		Y N				1500ng
14:33	3		CMA0250	50ppb		Y N				250ng (CCV also)
N/A	10		7511-15	X100		Y N	A(To14)			5mb screens only
:	11		-25			Y N				
:	12		-35			Y N				
:	13		7585-15			Y N				
:	14		8022-45			Y N				
	15		-55			Y N				
:						Y N				
:						Y N				
:						Y N				
:						Y N				BH 8/5/02
:						Y N				
:						Y N				
:						Y N				

The analyst whose name appears above is the analyst who removed the sample(s) from the sample storage refrigerator, maintained custody during analysis nd relinquished sample(s) back to the sample storage refrigerator.

BFB

Data File : D:\HPCHEM\1\DATA\MARILYN\2M0805A\BFM0805A.D Vial: 1
Acq On : 5 Aug 2002 1:21 pm Operator: BDH
Sample : DAILY BFB 12HR. TUNE 50ppb Inst : MARILYN
Misc : Pi/Pf=1 MA135ABK BFB TUNE CHECK Multiplr: 1.00
MS Integration Params: rteint.p
Method : D:\HPCHEM\1\METHODS\MARILYN\CRV080502 TO14\TO14S.M (RTE Integr
Title : TO14





Spectrum Information: Average of 5.978 to 6.009 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.9	15931	PASS
75	95	30	60	42.2	42230	PASS
95	95	100	100	100.0	100000	PASS
96	95	5	9	6.8	6750	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	78.6	78645	PASS
175	174	5	9	6.8	5326	PASS
176	174	95	101	97.0	76313	PASS
177	176	5	9	6.4	4891	PASS

BFM0805A.D TO14S.M Tue Sep 03 16:16:46 2002

Response Factor Report MARILYN

Method : D:\HPCHEM\1\METHODS\MARILYN\CRV080502 TO14\TO14S.M (RTE Inte
Title : TO14
Last Update : Tue Sep 03 16:09:28 2002
Response via : Initial Calibration

Calibration Files
25 =CMA0025.D 250 =CMA0250.D 1500 =CMA1500.D
1000 =CMA1000.D 100 =CMA0100.D 500 =CMA0500.D

		Compound	25	250	1500	1000	100	500	Avg	%RSD
1)	I	Bromochloromethane IS	----------ISTD----------							
2)		Dichlorodifluoromet	0.448	0.847	0.878	0.778	0.867	0.840	-----	
							L	M= 0.856	R^2=0.995	
								B= -0.039		
3)		Dichlorotetrafluoro	0.998	1.337	1.160	1.246	1.143	1.322	1.201	10.63
4)	P	Chloromethane	0.682	0.744	0.862	0.839	0.633	0.756	0.753	11.71
5)	C	Vinyl chloride	0.505	0.728	0.693	0.698	0.616	0.708	0.658	12.82#
6)		Bromomethane	0.629	0.584	0.674	0.678	0.529	0.658	0.625	9.36
7)		Chloroethane	0.241	0.488	0.428	0.457	0.407	0.475	-----	
							L	M= 0.433	R^2=0.997	
								B= 0.033		
8)		Trichlorofluorometh	2.161	2.739	2.489	2.644	2.251	2.766	2.508	10.17
9)		1,1,2-Trichlorotrif	1.789	2.282	2.376	2.383	1.842	2.323	2.166	12.67
10)	MC	1,1-Dichloroethene	0.996	1.171	1.146	1.199	0.939	1.190	1.107	10.02#
11)		Iodomethane							0.000	-1.00
12)		Methylene chloride	1.226	1.379	1.343	1.407	1.191	1.387	1.322	6.88
13)		Carbon disulfide	2.724	3.175	3.135	3.222	2.667	3.218	3.024	8.49
14)		methyl-Tert-Butyl E	1.820	2.167	2.349	2.371	1.852	2.251	2.135	11.38
15)		trans-1,2-Dichloroe	1.126	1.340	1.369	1.387	1.083	1.359	1.278	10.61
16)		n-Hexane	1.292	1.249	1.327	1.321	1.080	1.272	1.257	7.27
17)	P	1,1-Dichloroethane	1.725	2.159	2.225	2.254	1.778	2.175	2.053	11.52
18)		cis-1,2-Dichloroeth	1.375	1.734	1.781	1.826	1.410	1.743	1.645	12.08
19)	C	Chloroform	2.037	2.613	2.645	2.689	2.141	2.599	2.454	11.67#
20)		Isooctane	3.678	4.139	4.436	4.396	3.403	4.232	4.047	10.29
21)		1,1,1-Trichloroetha	1.887	2.369	2.414	2.466	1.889	2.387	2.235	12.12
22)		Carbon tetrachlorid	1.852	2.397	2.490	2.506	1.916	2.432	2.266	13.19
23)	S	1,2-Dichloroethane	1.130	1.080	1.133	1.156	1.075	1.113	1.114	2.86
24)		1,2-Dichloroethane	1.050	1.255	1.318	1.347	1.057	1.268	1.216	10.71
25)		1,2-Dibromoethane	1.923	2.242	2.266	2.324	1.845	2.247	2.141	9.48
26)	I	1,4-Difluorobenzene I	----------ISTD----------							
27)	M	Benzene	0.635	0.738	0.733	0.729	0.644	0.738	0.703	7.00
28)	M	Trichloroethene	0.348	0.423	0.423	0.421	0.359	0.422	0.399	8.91
29)	C	1,2-Dichloropropane	0.254	0.313	0.316	0.314	0.272	0.311	0.297	9.03#
30)		Bromodichloromethan	0.586	0.715	0.712	0.709	0.621	0.707	0.675	8.38
31)		cis-1,3-Dichloropro	0.397	0.473	0.481	0.479	0.404	0.471	0.451	8.69
32)	S	Toluene-d8 SURR#2	0.747	0.729	0.731	0.741	0.745	0.736	0.738	0.98
33)	MC	Toluene	0.389	0.470	0.470	0.471	0.399	0.476	0.446	9.01#
34)		trans-1,3-Dichlorop	0.332	0.395	0.405	0.405	0.341	0.401	0.380	8.94
35)		1,1,2-Trichloroetha	0.271	0.310	0.311	0.309	0.262	0.307	0.295	7.56
36)	I	Chlorobenzene-d5 IS#3	----------ISTD----------							
37)		Tetrachloroethene	0.456	0.579	0.596	0.580	0.481	0.586	0.546	11.23

L = Linear LO = Linear+Origin Q = Quad QO = Quad+Origin R = Corr. Coef
(#) = Out of Range ### Number of calibration levels exceeded format ###

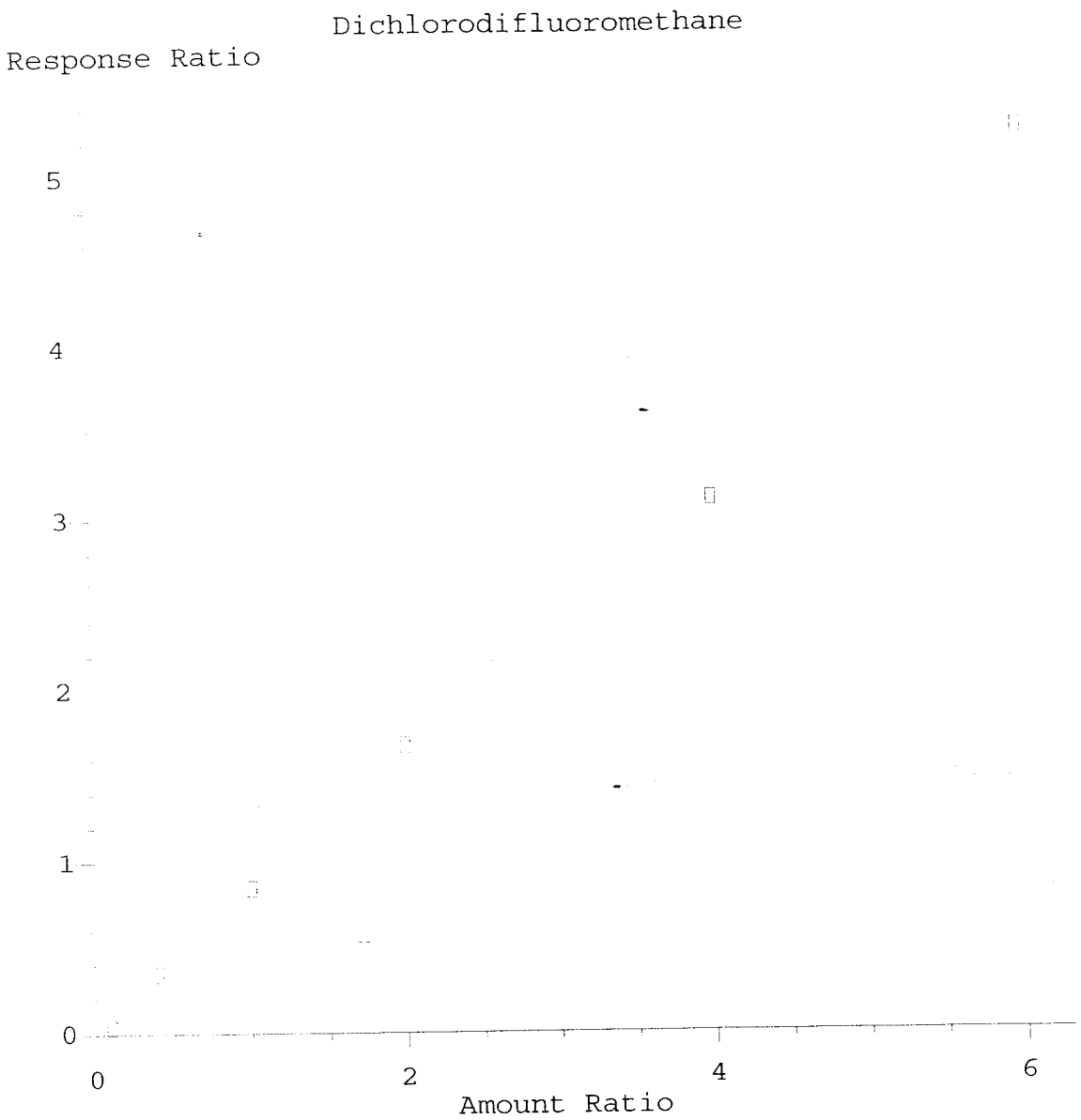
Response Factor Report MARILYN

Method : D:\HPCHEM\1\METHODS\MARILYN\CRV080502 TO14\TO14S.M (RTE Inte
Title : TO14
Last Update : Tue Sep 03 16:09:28 2002
Response via : Initial Calibration

Calibration Files
25 =CMA0025.D 250 =CMA0250.D 1500 =CMA1500.D
1000 =CMA1000.D 100 =CMA0100.D 500 =CMA0500.D

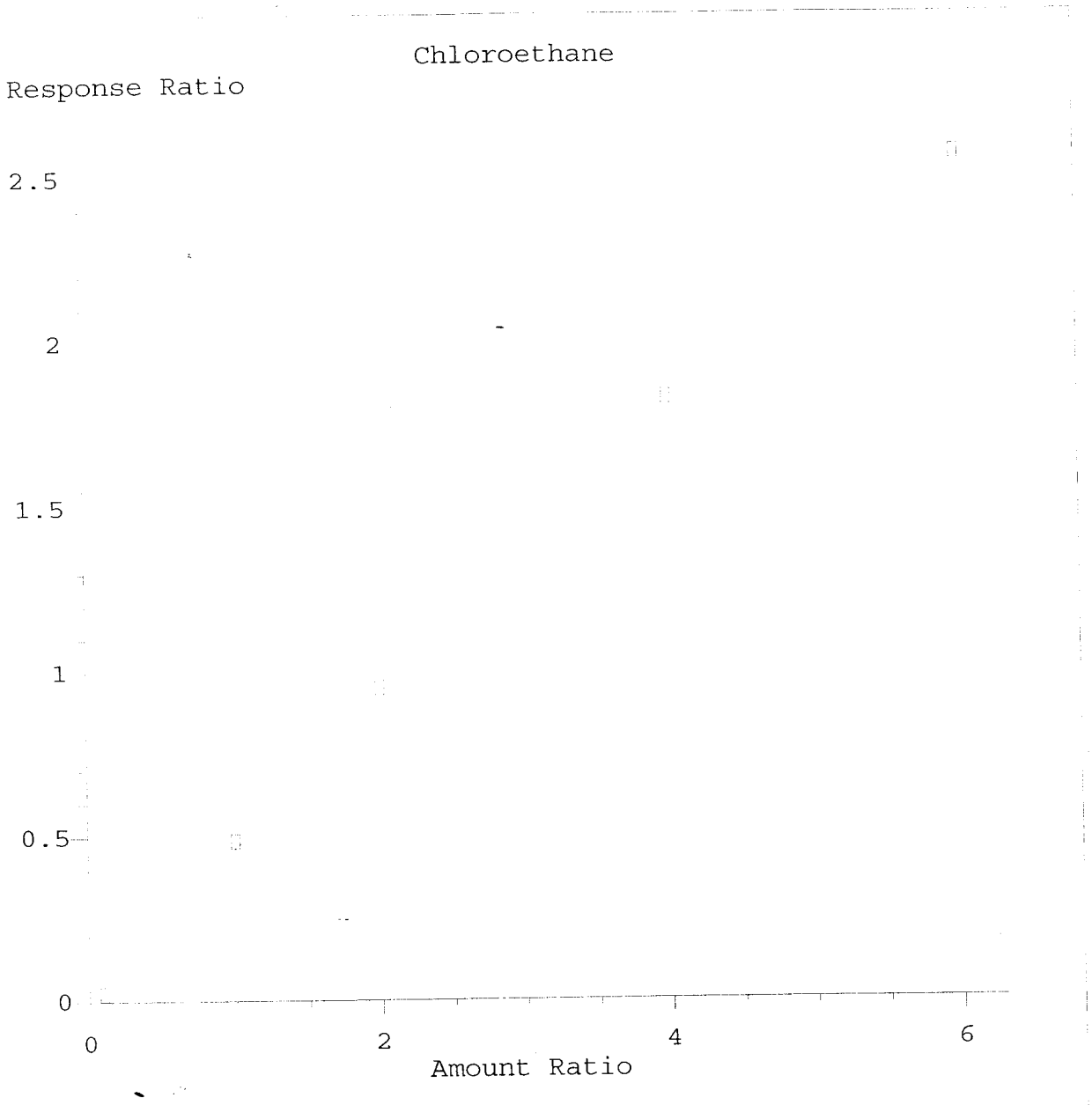
		Compound	25	250	1500	1000	100	500	Avg	%RSD
38)		Dibromochloromethan	0.649	0.779	0.772	0.758	0.649	0.751	0.726	8.34
39)	MP	Chlorobenzene	0.728	0.947	0.936	0.934	0.788	0.947	0.880	10.96
40)	C	Ethylbenzene	0.284	0.366	0.374	0.368	0.305	0.374	0.345	11.54#
41)		m,p-Xylene	0.342	0.454	0.448	0.455	0.371	0.453	0.421	11.96
42)		o-Xylene	0.314	0.431	0.433	0.434	0.348	0.433	0.399	13.44
43)		Styrene	0.525	0.727	0.728	0.738	0.589	0.738	0.674	13.81
44)	P	Bromoform	0.720	0.842	0.766	0.772	0.684	0.801	0.764	7.35
45)	P	1,1,2,2-Tetrachloro	0.656	0.724	0.616	0.639	0.599	0.681	0.652	6.99
46)	S	4-Bromofluorobenzen	0.785	0.776	0.748	0.762	0.785	0.783	0.773	1.96
47)		1,4-Dichloro-2-bute	0.139	0.166	0.157	0.158	0.137	0.164	0.153	8.17
48)		4-Ethyltoluene	0.871	1.059	1.035	1.062	0.834	1.135	0.999	11.92
49)		1,3,5-Trimethylbenz	0.577	0.882	0.774	0.800	0.732	0.848	0.769	14.01
50)		2-Chlorotoluene	0.856	1.052	1.063	1.089	0.898	1.077	1.006	10.07
51)		1,2,4-Trimethylbenz	0.614	0.824	0.827	0.851	0.674	0.849	0.773	13.24
52)		1,3-Dichlorobenzene	0.525	0.702	0.682	0.705	0.580	0.710	0.651	12.06
53)		1,4-Dichlorobenzene	0.531	0.715	0.701	0.729	0.611	0.738	0.671	12.30
54)		1,2-Dichlorobenzene	0.486	0.678	0.619	0.646	0.549	0.650	0.605	12.04
55)		1,2,4-Trichlorobenz	0.317	0.445	0.460	0.444	0.353	0.455	0.412	14.87
56)		Napthalene	0.489	0.633	0.669	0.650	0.465	0.601	0.585	14.86
57)		Hexachlorobutadiene	0.248	0.351	0.346	0.363	0.291	0.359	0.326	14.19

L = Linear LO = Linear+Origin Q = Quad QO = Quad+Origin R = Corr. Coef
(#) = Out of Range ### Number of calibration levels exceeded format ###
TO14S.M Tue Sep 03 16:17:20 2002 Page 2



Resp Ratio = 8.56e-001 * Amt - 3.89e-002
Coef of Det (r^2) = 0.995 Curve Fit: Linear

Method Name: D:\HPCHEM\1\METHODS\MARILYN\CRV080502 TO14\TO14S.M
Calibration Table Last Updated: Wed Sep 04 07:57:40 2002



Resp Ratio = 4.33e-001 * Amt + 3.32e-002
Coef of Det (r^2) = 0.997 Curve Fit: Linear

Method Name: D:\HPCHEM\1\METHODS\MARILYN\CRV080502 TO14\TO14S.M
Calibration Table Last Updated: Wed Sep 04 07:57:40 2002

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0025.D
Acq On : 5 Aug 2002 15:11
Sample : 25ng/1uL/5ppb INITIAL CALIB.
Misc : Pi/Pf=1 MA135ABK
MS Integration Params: rteint.p
Quant Time: Aug 6 9:08 2002

Vial: 4
Operator: BDH
Inst : MARILYN
Multiplr: 1.00

Quant Results File: TO14S.RES

Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Aug 05 15:36:43 2002
Response via : Initial Calibration
DataAcq Meth : TO14S
IS QA File : D:\HPCHEM\1\DATA02\M0805A\CMA0250.D (5 Aug 2002 14:33)

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) Bromochloromethane IS#1	11.05	128	525323	250.00	ng	0.00 102.25%
26) 1,4-Difluorobenzene IS#2	12.96	114	2110562	250.00	ng	0.00 98.85%
36) Chlorobenzene-d5 IS#3	20.20	117	1475437	250.00	ng	0.00 101.94%

System Monitoring Compounds

23) 1,2-Dichloroethane d4 SURR	12.17	65	593404	266.18	ng	0.00
Spiked Amount 250.000 Range 61 - 140 Recovery = 106.47%						
32) Toluene-d8 SURR#2	16.47	98	1576268	244.71	ng	0.00
Spiked Amount 250.000 Range 90 - 109 Recovery = 97.88%						
46) 4-Bromofluorobenzene SURR#	23.32	95	1157795	238.66	ng	0.00
Spiked Amount 250.000 Range 87 - 112 Recovery = 95.46%						

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.73	85	23511m	14.27	ng	# 93
3) Dichlorotetrafluoroethane	3.82	135	52402m	26.75	ng	# 19
4) Chloromethane	4.13	50	35817	29.31	ng	# 83
5) Vinyl chloride	4.41	62	26503	20.40	ng	# 48
6) Bromomethane	5.12	94	33029	17.91	ng	# 66
7) Chloroethane	5.25	64	12653	13.11	ng	# 61
8) Trichlorofluoromethane	5.70	101	113509	23.16	ng	98
9) 1,1,2-Trichlorotrifluoroet	6.50	151	93981	22.41	ng	83
10) 1,1-Dichloroethene	6.85	96	52328	25.50	ng	# 77
12) Methylene chloride	7.75	49	64415	24.73	ng	# 91
13) Carbon disulfide	7.85	76	143116	25.23	ng	96
14) methyl-Tert-Butyl Ether	8.06	73	95627	23.87	ng	# 88
15) trans-1,2-Dichloroethene	8.34	96	59128	24.62	ng	86
16) n-Hexane	8.46	57	67869	31.05	ng	# 1
17) 1,1-Dichloroethane	9.14	63	90595	23.03	ng	# 97
18) cis-1,2-Dichloroethene	10.37	61	72220	22.95	ng	89
19) Chloroform	10.70	83	107007	22.28	ng	98
20) Isooctane	11.66	57	193210	25.83	ng	81
21) 1,1,1-Trichloroethane	11.53	97	99134	22.43	ng	92
22) Carbon tetrachloride	12.09	117	97294	20.80	ng	96
24) 1,2-Dichloroethane	12.37	62	55135	22.98	ng	96
25) 1,2-Dibromoethane	19.25	107	100996	23.17	ng	100
27) Benzene	12.43	78	134095	24.12	ng	93

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0025.D
Acq On : 5 Aug 2002 15:11
Sample : 25ng/1uL/5ppb INITIAL CALIB.
Misc : Pi/Pf=1 MA135ABK
MS Integration Params: rteint.p
Quant Time: Aug 6 9:08 2002

Vial: 4
Operator: BDH
Inst : MARILYN
Multiplr: 1.00

Quant Results File: TO14S.RES

Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Aug 05 15:36:43 2002
Response via : Initial Calibration
DataAcq Meth : TO14S

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
28) Trichloroethene	13.75	130	73470	21.80 ng		92
29) 1,2-Dichloropropane	14.14	63	53636	22.52 ng		99
30) Bromodichloromethane	14.65	83	123603	22.02 ng		100
31) cis-1,3-Dichloropropene	15.87	75	83746	22.67 ng		99
33) Toluene	16.66	92	82066	21.08 ng	#	98
34) trans-1,3-Dichloropropene	17.01	75	70070	22.50 ng		96
35) 1,1,2-Trichloroethane	17.42	97	57189	23.12 ng		96
37) Tetrachloroethene	18.26	164	67210	21.15 ng		91
[illegible]mochloromethane	18.74	127	95791	23.49 ng	#	93
39) Chlorobenzene	20.29	112	107446	20.49 ng		97
40) Ethylbenzene	20.40	106	41895	20.30 ng		99
41) m,p-Xylene	20.60	106	101034	37.73 ng		100
42) o-Xylene	21.72	106	46397	17.94 ng		95
43) Styrene	21.80	104	77440	17.52 ng		96
44) Bromoform	22.74	173	106247	23.74 ng		98
45) 1,1,2,2-Tetrachloroethane	23.07	83	96850	26.91 ng	#	97
47) 1,4-Dichloro-2-butene	22.73	75	20485	26.54 ng	#	86
48) 4-Ethyltoluene	24.00	105	128518	19.73 ng	#	89
49) 1,3,5-Trimethylbenzene	24.13	105	85179	16.44 ng	#	82
50) 2-Chlorotoluene	24.22	91	126306	19.26 ng		97
51) 1,2,4-Trimethylbenzene	25.09	105	90654	17.12 ng		98
52) 1,3-Dichlorobenzene	26.04	146	77461	17.12 ng	#	92
53) 1,4-Dichlorobenzene	26.24	146	78283	16.58 ng	#	90
54) 1,2-Dichlorobenzene	27.01	146	71720	16.98 ng	#	91
55) 1,2,4-Trichlorobenzene	30.15	180	46712	Below Cal		95
56) Napthalene	30.68	128	72114	Below Cal	#	85
57) Hexachlorobutadiene	30.38	225	36641	Below Cal		96

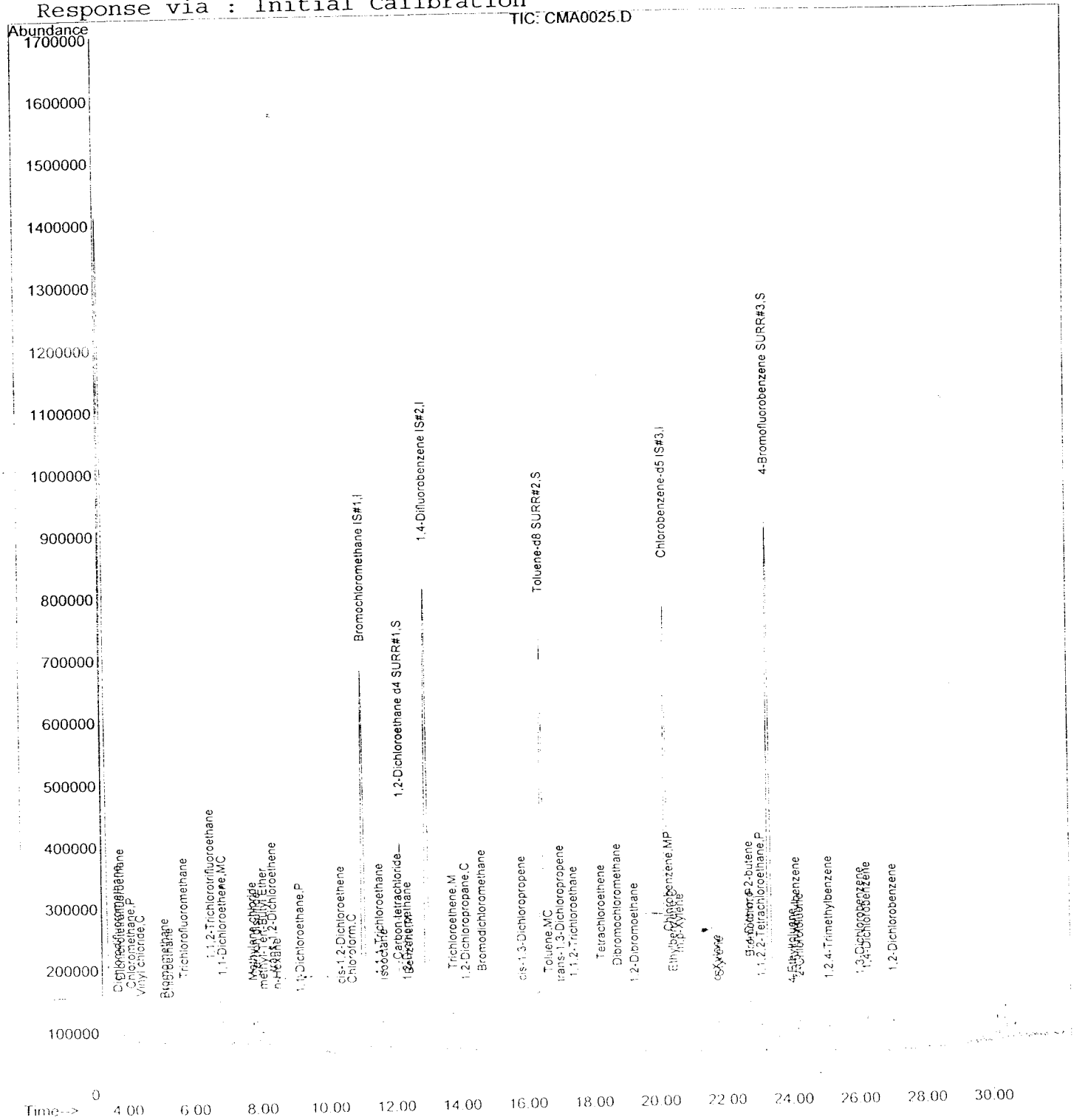
(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0025.D
Acq On : 5 Aug 2002 15:11
Sample : 25ng/1uL/5ppb INITIAL CALIB.
Misc : Pi/Pf=1 MA135ABK
MS Integration Params: rteint.p
Quant Time: Aug 6 9:08 2002

Vial: 4
Operator: BDH
Inst : MARILYN
Multiplr: 1.00

Quant Results File: TO14S.RES

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Tue Aug 06 09:02:44 2002
Response via : Initial Calibration



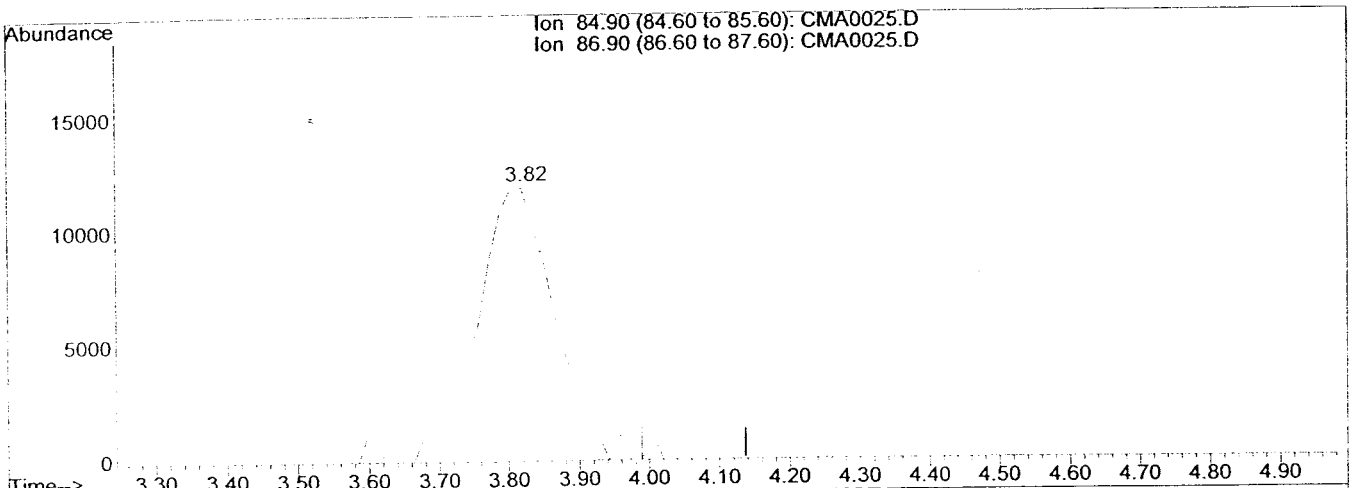
CMA0025.D TO14S.M Tue Aug 06 09:08:48 2002 Page 3

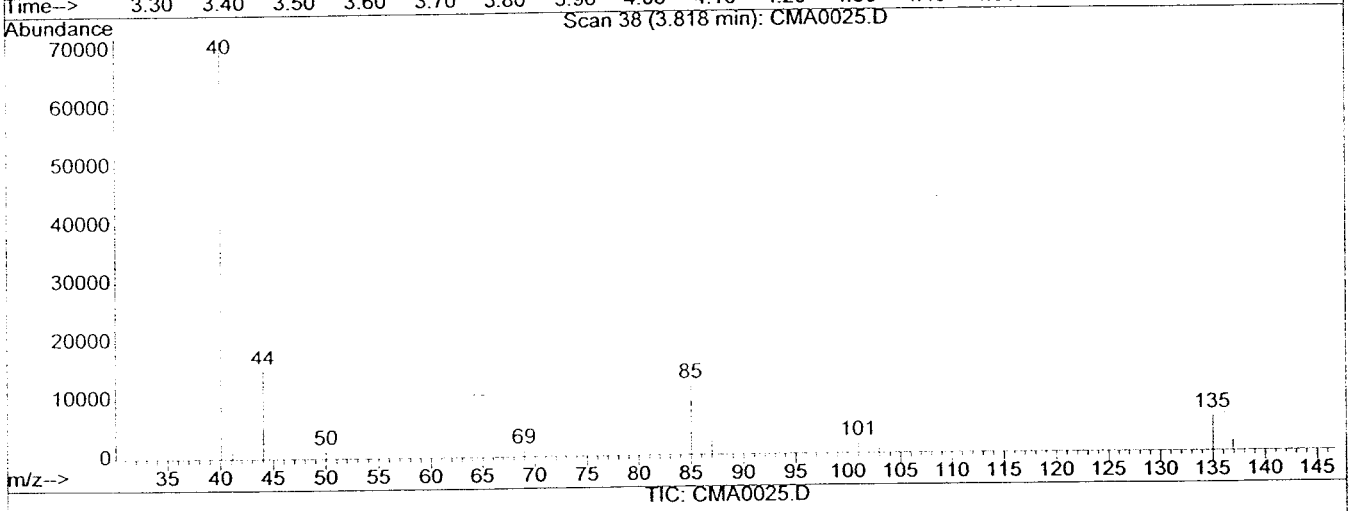
Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0025.D
Acq On : 5 Aug 2002 15:11
Sample : 25ng/1uL/5ppb INITIAL CALIB.
Misc : Pi/Pf=1 MA135ABK
MS Integration Params: rteint.p
Quant Time: Aug 6 8:41 2002

Vial: 4
Operator: BDH
Inst : MARILYN
Multiplr: 1.00

Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Tue Aug 06 09:02:44 2002
Response via : Multiple Level Calibration





(2) Dichlorodifluoromethane

3.82min 72.09ng

response 118746

Ion	Exp%	Act%
84.90	100	100
86.90	33.50	29.70
0.00	0.00	0.00
0.00	0.00	0.00

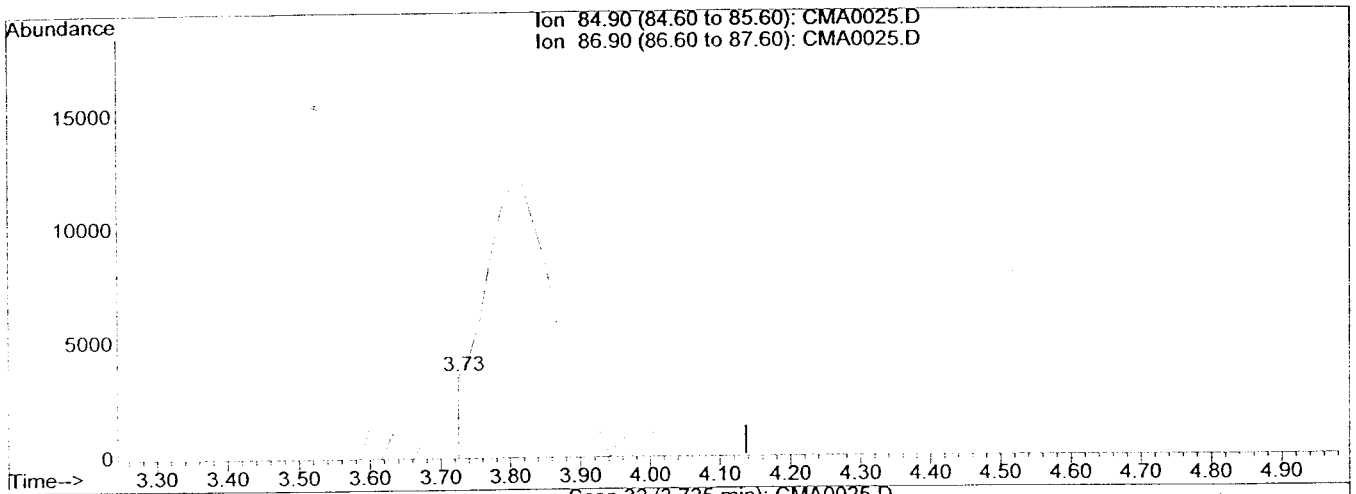
wrong peak

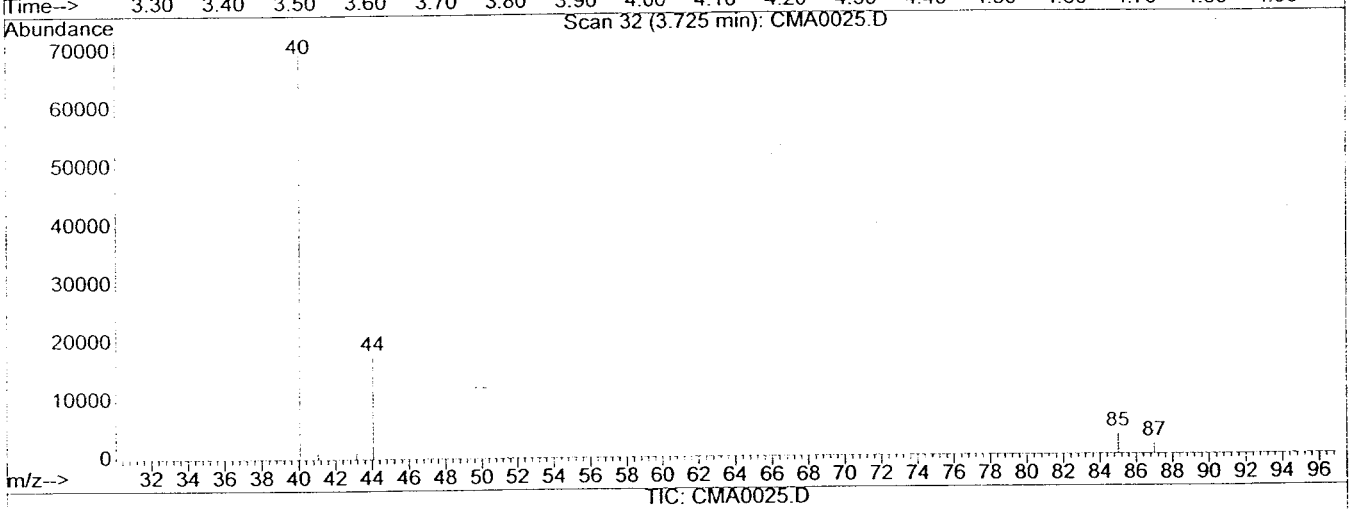
CMA0025.D ~~TO14S.M~~ Tue Aug 06 09:08:16 2002

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0025.D
Acq On : 5 Aug 2002 15:11
Sample : 25ng/1uL/5ppb INITIAL CALIB.
Misc : Pi/Pf=1 MA135ABK
MS Integration Params: rteint.p
Quant Time: Aug 6 9:08 2002

Vial: 4
Operator: BDH
Inst : MARILYN
Multiplr: 1.00
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Tue Aug 06 09:02:44 2002
Response via : Multiple Level Calibration





(2) Dichlorodifluoromethane

3.73min 14.27ng m

response 23511

Ion	Exp%	Act%
84.90	100	100
86.90	33.50	149.99#
0.00	0.00	0.00
0.00	0.00	0.00

5-6-02

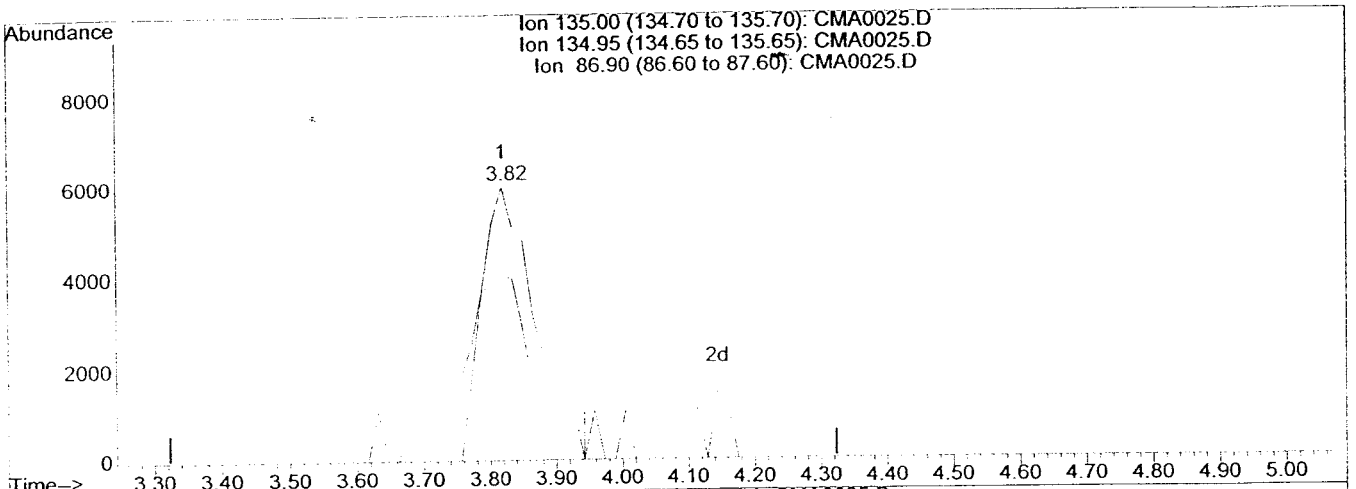
CMA0025.D TO14S.M Tue Aug 06 09:08:26 2002

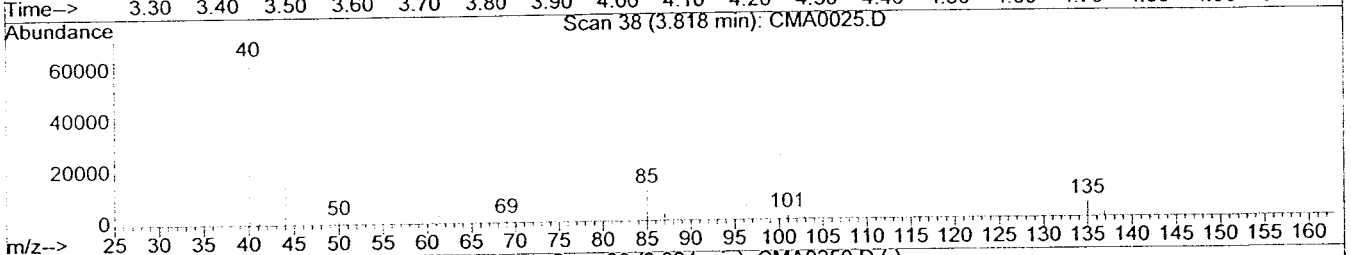
Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0025.D
Acq On : 5 Aug 2002 15:11
Sample : 25ng/1uL/5ppb INITIAL CALIB.
Misc : Pi/Pf=1 MA135ABK
MS Integration Params: rteint.p
Quant Time: Aug 5 15:43 2002

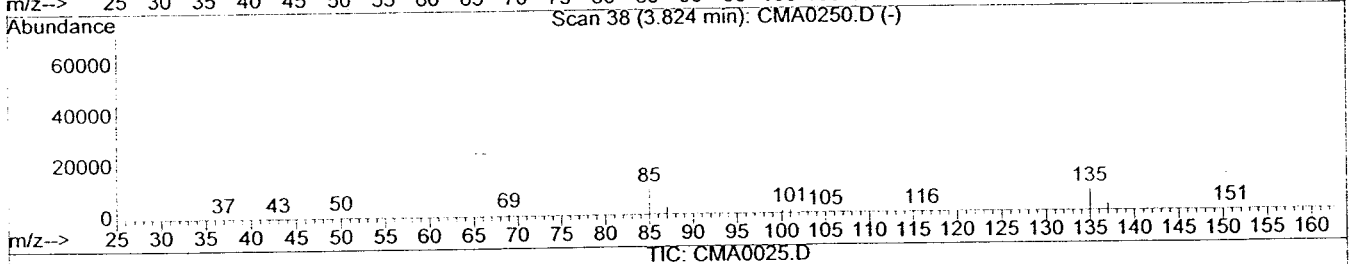
Vial: 4
Operator: BDH
Inst : MARILYN
Multiplr: 1.00

Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Tue Aug 06 08:35:03 2002
Response via : Multiple Level Calibration







TIC: CMA0025.D

(3) Dichlorotetrafluoroethane

3.82min 18.23ng

response 35714

Ion	Exp%	Act%
135.00	100	100
134.95	56.30	100.00#
86.90	32.70	98.74#
0.00	0.00	0.00

Defol
failing

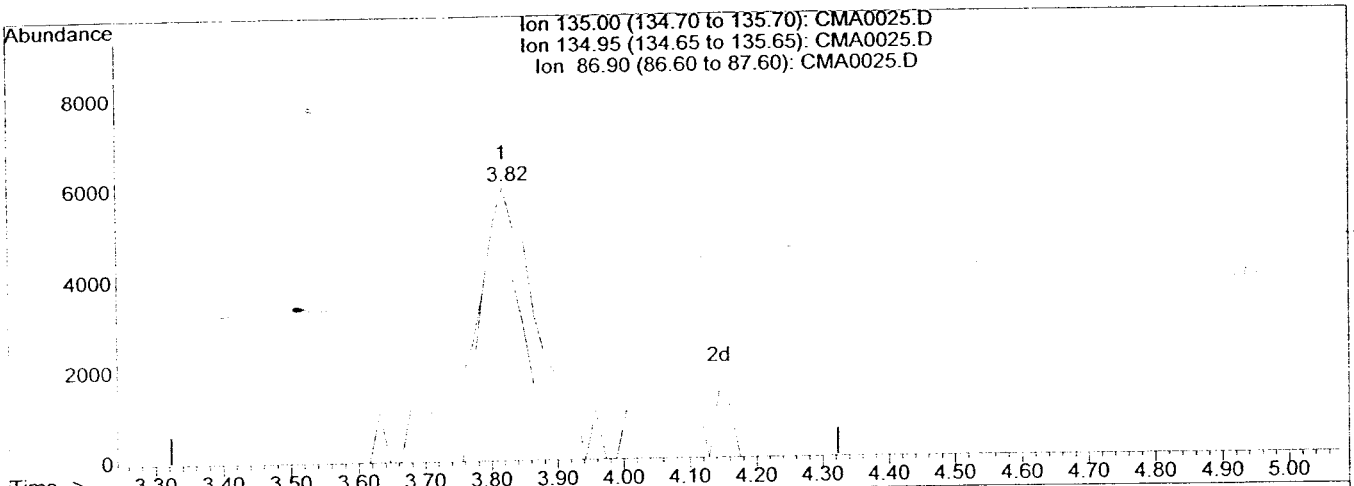
CMA0025.D ~~TO14S.M~~ Tue Aug 06 08:41:18 2002

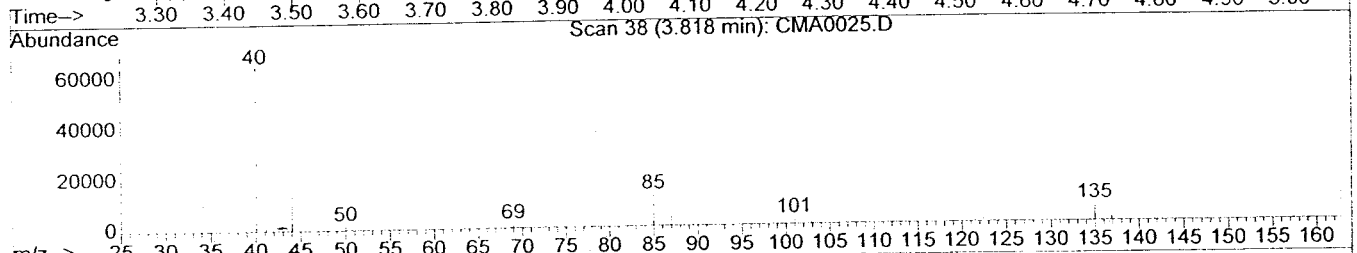
Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0025.D
Acq On : 5 Aug 2002 15:11
Sample : 25ng/1uL/5ppb INITIAL CALIB.
Misc : Pi/Pf=1 MA135ABK
MS Integration Params: rteint.p
Quant Time: Aug 6 8:41 2002

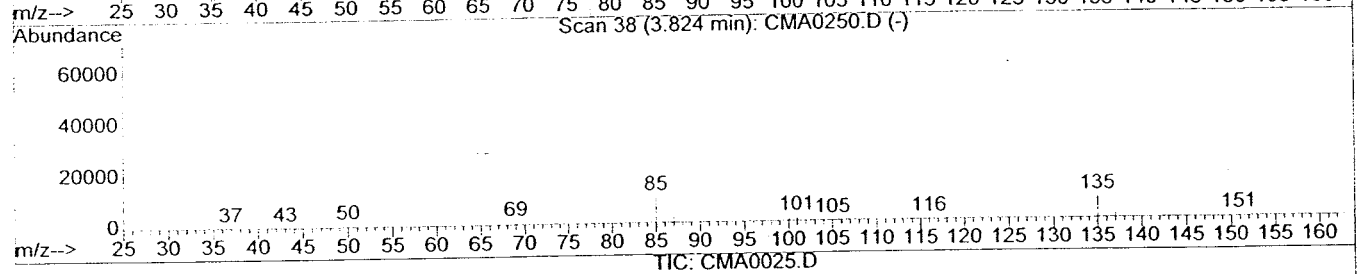
Vial: 4
Operator: BDH
Inst : MARILYN
Multiplr: 1.00

Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Tue Aug 06 08:35:03 2002
Response via : Multiple Level Calibration







TIC: CMA0025.D

(3) Dichlorotetrafluoroethane

3.82min 26.75ng m

response 52402

Ion	Exp%	Act%
135.00	100	100
134.95	56.30	68.15#
86.90	32.70	67.30#
0.00	0.00	0.00

otr
BH
8/6/02

CMA0025.D TO14S.M Tue Aug 06 08:41:31 2002

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0025.D
Acq On : 5 Aug 2002 15:11
Sample : 25ng/1uL/5ppb INITIAL CALIB.
Misc : Pi/Pf=1 MA135ABK
MS Integration Params: rteint.p
Quant Time: Aug 5 15:43 2002

Vial: 4
Operator: BDH
Inst : MARILYN
Multiplr: 1.00

Quant Results File: TO14S.RES

Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Aug 05 15:36:43 2002
Response via : Initial Calibration
DataAcq Meth : TO14S
IS QA File : D:\HPCHEM\1\DATA02\M0805A\CMA0250.D (5 Aug 2002 14:33)

original BDH 8/5/02

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) Bromochloromethane IS#1	11.05	128	525323	250.00 ng	0.00 102.25%
26) 1,4-Difluorobenzene IS#2	12.96	114	2110562	250.00 ng	0.00 98.85%
36) Chlorobenzene-d5 IS#3	20.20	117	1475437	250.00 ng	0.00 101.94%

System Monitoring Compounds

23) 1,2-Dichloroethane d4 SURR	12.17	65	593404	266.18 ng	0.00
Spiked Amount 250.000 Range 61 - 140 Recovery = 106.47%					
32) Toluene-d8 SURR#2	16.47	98	1576268	244.71 ng	0.00
Spiked Amount 250.000 Range 90 - 109 Recovery = 97.88%					
46) 4-Bromofluorobenzene SURR#	23.32	95	1157795	238.66 ng	0.00
Spiked Amount 250.000 Range 87 - 112 Recovery = 95.46%					

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.82	85	118746	72.09 ng		93
3) Dichlorotetrafluoroethane	3.82	135	35714	18.23 ng	#	19
4) Chloromethane	4.13	50	35817	29.31 ng	#	83
5) Vinyl chloride	4.41	62	26503	20.40 ng	#	48
6) Bromomethane	5.12	94	33029	17.91 ng	#	66
7) Chloroethane	5.25	64	12653	13.11 ng	#	61
8) Trichlorofluoromethane	5.70	101	113509	23.16 ng		98
9) 1,1,2-Trichlorotrifluoroet	6.50	151	93981	22.41 ng		83
10) 1,1-Dichloroethene	6.85	96	52328	25.50 ng	#	77
12) Methylene chloride	7.75	49	64415	24.73 ng	#	91
13) Carbon disulfide	7.85	76	143116	25.23 ng		96
14) methyl-Tert-Butyl Ether	8.06	73	95627	23.87 ng	#	88
15) trans-1,2-Dichloroethene	8.34	96	59128	24.62 ng		86
16) n-Hexane	8.46	57	67869	31.05 ng	#	1
17) 1,1-Dichloroethane	9.14	63	90595	23.03 ng	#	97
18) cis-1,2-Dichloroethene	10.37	61	72220	22.95 ng		89
19) Chloroform	10.70	83	107007	22.28 ng		98
20) Isooctane	11.66	57	193210	25.83 ng		81
21) 1,1,1-Trichloroethane	11.53	97	99134	22.43 ng		92
22) Carbon tetrachloride	12.09	117	97294	20.80 ng		96
24) 1,2-Dichloroethane	12.37	62	55135	22.98 ng		96
25) 1,2-Dibromoethane	19.25	107	100996	23.17 ng		100
27) Benzene	12.43	78	134095	24.12 ng		93

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0025.D
Acq On : 5 Aug 2002 15:11
Sample : 25ng/1uL/5ppb INITIAL CALIB.
Misc : Pi/Pf=1 MA135ABK
MS Integration Params: rteint.p
Quant Time: Aug 5 15:43 2002

Vial: 4
Operator: BDH
Inst : MARILYN
Multiplr: 1.00

Quant Results File: TO14S.RES

Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Aug 05 15:36:43 2002
Response via : Initial Calibration
DataAcq Meth : TO14S

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
28) Trichloroethene	13.75	130	73470	21.80 ng		92
29) 1,2-Dichloropropane	14.14	63	53636	22.52 ng		99
30) Bromodichloromethane	14.65	83	123603	22.02 ng		100
31) cis-1,3-Dichloropropene	15.87	75	83746	22.67 ng		99
33) Toluene	16.66	92	82066	21.08 ng	#	98
34) trans-1,3-Dichloropropene	17.01	75	70070	22.50 ng		96
35) 1,1,2-Trichloroethane	17.42	97	57189	23.12 ng		96
37) Tetrachloroethene	18.26	164	67210	21.15 ng		91
38) Dibromochloromethane	18.74	127	95791	23.49 ng	#	93
39) Chlorobenzene	20.29	112	107446	20.49 ng		97
40) Ethylbenzene	20.40	106	41895	20.30 ng		99
41) m,p-Xylene	20.60	106	101034	37.73 ng		100
42) o-Xylene	21.72	106	46397	17.94 ng		95
43) Styrene	21.80	104	77440	17.52 ng		96
44) Bromoform	22.74	173	106247	23.74 ng		98
45) 1,1,2,2-Tetrachloroethane	23.07	83	96850	26.91 ng	#	97
47) 1,4-Dichloro-2-butene	22.73	75	20485	26.54 ng	#	86
48) 4-Ethyltoluene	24.00	105	128518	19.73 ng	#	89
49) 1,3,5-Trimethylbenzene	24.13	105	85179	16.44 ng	#	82
50) 2-Chlorotoluene	24.22	91	126306	19.26 ng		97
51) 1,2,4-Trimethylbenzene	25.09	105	90654	17.12 ng		98
52) 1,3-Dichlorobenzene	26.04	146	77461	17.12 ng	#	92
53) 1,4-Dichlorobenzene	26.24	146	78283	16.58 ng	#	90
54) 1,2-Dichlorobenzene	27.01	146	71720	16.98 ng	#	91
55) 1,2,4-Trichlorobenzene	30.15	180	46712	Below Cal		95
56) Napthalene	30.68	128	72114	Below Cal	#	85
57) Hexachlorobutadiene	30.38	225	36641	Below Cal		96

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0100.D Vial: 5
Acq On : 5 Aug 2002 15:48 Operator: BDH
Sample : 100ng/4uL/20ppb INITIAL CALIB. Inst : MARILYN
Misc : Pi/Pf=1 MA135ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 6 9:10 2002 Quant Results File: TO14S.RES

Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Aug 05 15:54:06 2002
Response via : Initial Calibration
DataAcq Meth : TO14S
IS QA File : D:\HPCHEM\1\DATA02\M0805A\CMA0250.D (5 Aug 2002 14:33)

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) Bromochloromethane IS#1	11.06	128	529243	250.00	ng	0.01 103.01%
26) 1,4-Difluorobenzene IS#2	12.98	114	2105626	250.00	ng	0.01 98.62%
36) Chlorobenzene-d5 IS#3	20.20	117	1479350	250.00	ng	0.00 102.21%

System Monitoring Compounds

23) 1,2-Dichloroethane d4 SURR	12.17	65	568813	250.32	ng	0.00
Spiked Amount 250.000 Range 61 - 140 Recovery = 100.13%						
32) Toluene-d8 SURR#2	16.47	98	1567801	245.41	ng	0.00
Spiked Amount 250.000 Range 90 - 109 Recovery = 98.16%						
46) 4-Bromofluorobenzene SURR#	23.32	95	1161988	241.94	ng	0.00
Spiked Amount 250.000 Range 87 - 112 Recovery = 96.78%						

Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.65	85	183459m	84.55	ng		98
3) Dichlorotetrafluoroethane	3.84	135	242049	130.39	ng	#	60
4) Chloromethane	4.10	50	133967	104.44	ng	#	94
5) Vinyl chloride	4.30	62	130384	101.73	ng	#	88
6) Bromomethane	5.12	94	112078	64.71	ng	#	91
7) Chloroethane	5.25	64	86085	94.57	ng	#	92
8) Trichlorofluoromethane	5.73	101	476470	95.28	ng		99
9) 1,1,2-Trichlorotrifluoroet	6.52	151	389880	91.67	ng		81
10) 1,1-Dichloroethene	6.86	96	198845	93.76	ng		88
12) Methylene chloride	7.76	49	252199	93.87	ng		95
13) Carbon disulfide	7.87	76	564526	96.49	ng		100
14) methyl-Tert-Butyl Ether	8.06	73	392103	96.05	ng		98
15) trans-1,2-Dichloroethene	8.35	96	229351	92.45	ng		93
16) n-Hexane	8.46	57	228658	96.98	ng	#	1
17) 1,1-Dichloroethane	9.16	63	376411	94.02	ng		98
18) cis-1,2-Dichloroethene	10.37	61	298397	92.94	ng		90
19) Chloroform	10.70	83	453201	93.20	ng		98
20) Isooctane	11.65	57	720395	90.91	ng		95
21) 1,1,1-Trichloroethane	11.54	97	399989	89.55	ng		90
22) Carbon tetrachloride	12.11	117	405666	86.49	ng		98
24) 1,2-Dichloroethane	12.38	62	223751	91.42	ng	#	98
25) 1,2-Dibromoethane	19.25	107	390520	87.70	ng		99
27) Benzene	12.45	78	542374	96.50	ng		96

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0100.D
Acq On : 5 Aug 2002 15:48
Sample : 100ng/4uL/20ppb INITIAL CALIB.
Misc : Pi/Pf=1 MA135ABK
MS Integration Params: rteint.p
Quant Time: Aug 6 9:10 2002

Vial: 5
Operator: BDH
Inst : MARILYN
Multiplr: 1.00

Quant Results File: TO14S.RES

Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Aug 05 15:54:06 2002
Response via : Initial Calibration
DataAcq Meth : TO14S

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
28) Trichloroethene	13.76	130	302294	90.08 ng		94
29) 1,2-Dichloropropane	14.13	63	229007	95.22 ng		96
30) Bromodichloromethane	14.66	83	522778	93.36 ng		99
31) cis-1,3-Dichloropropene	15.87	75	340593	91.88 ng		95
33) Toluene	16.68	92	336212	87.55 ng	#	97
34) trans-1,3-Dichloropropene	17.03	75	287004	91.45 ng		99
35) 1,1,2-Trichloroethane	17.44	97	220955	89.14 ng		96
37) Tetrachloroethene	18.26	164	284540	90.18 ng		92
Dibromochloromethane	18.74	127	384241	93.19 ng		97
39) Chlorobenzene	20.29	112	466088	89.70 ng		94
40) Ethylbenzene	20.40	106	180645	88.68 ng		96
41) m,p-Xylene	20.60	106	439375	167.71 ng		95
42) o-Xylene	21.74	106	205641	82.16 ng		97
43) Styrene	21.81	104	348638	81.14 ng		94
44) Bromoform	22.75	-173	404965	89.43 ng		99
45) 1,1,2,2-Tetrachloroethane	23.07	83	354162	95.89 ng		100
47) 1,4-Dichloro-2-butene	22.72	75	80871	99.52 ng		87
48) 4-Ethyltoluene	24.02	105	493499	77.29 ng	#	85
49) 1,3,5-Trimethylbenzene	24.11	105	432997m	88.37 ng	#	61
50) 2-Chlorotoluene	24.22	91	531601	84.01 ng		99
51) 1,2,4-Trimethylbenzene	25.11	105	398786	79.10 ng		99
52) 1,3-Dichlorobenzene	26.04	146	343461m	79.70 ng	#	95
53) 1,4-Dichlorobenzene	26.25	146	361367	80.40 ng	#	93
54) 1,2-Dichlorobenzene	27.02	146	325085	80.55 ng	#	91
55) 1,2,4-Trichlorobenzene	30.15	180	209130	28.49 ng		97
56) Napthalene	30.68	128	274883	24.93 ng	#	90
57) Hexachlorobutadiene	30.38	225	172050	47.66 ng		100

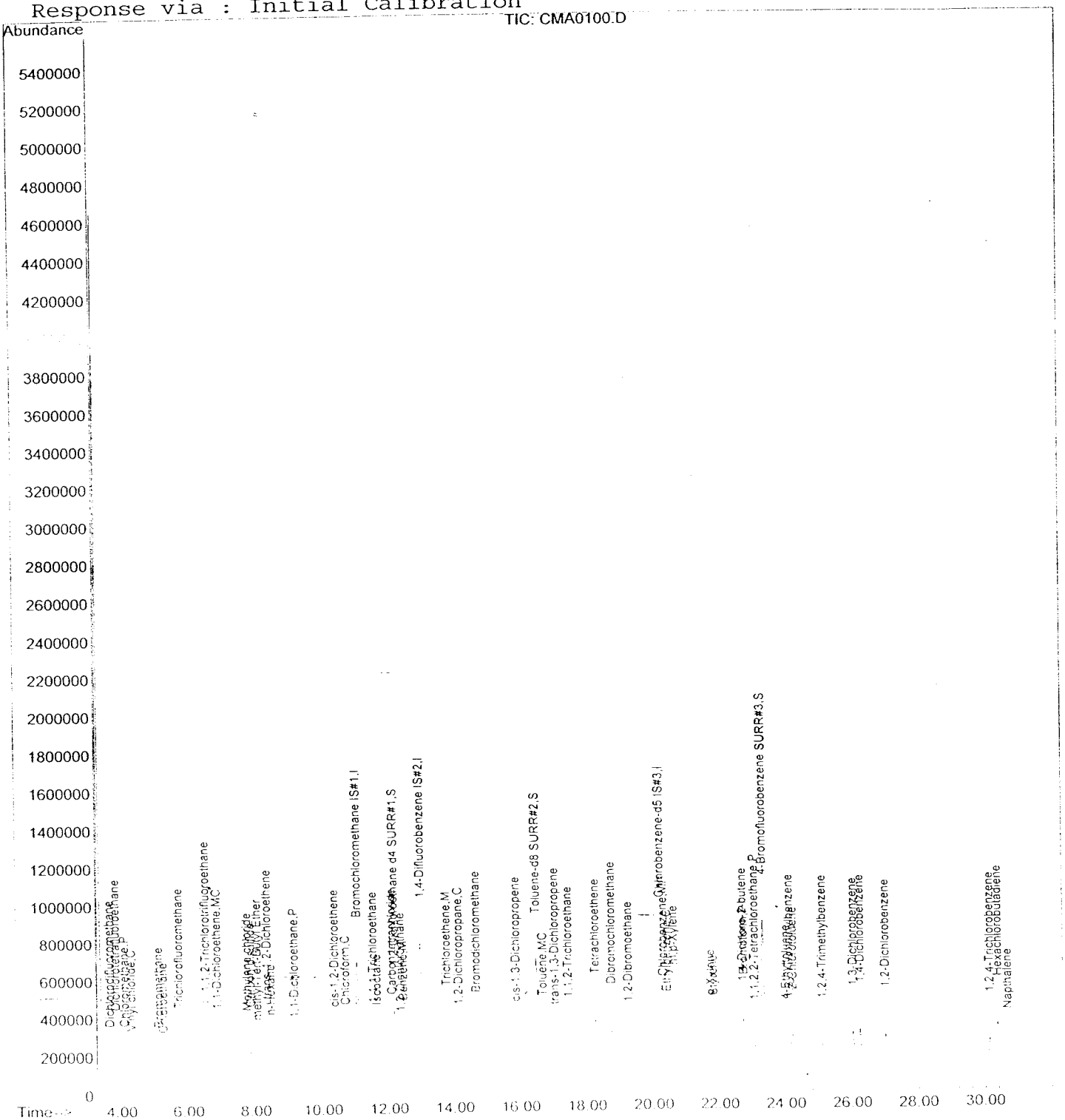
(#) = qualifier out of range (m) manual integration

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0100.D
Acq On : 5 Aug 2002 15:48
Sample : 100ng/4uL/20ppb INITIAL CALIB.
Misc : Pi/Pf=1 MA135ABK
MS Integration Params: rteint.p
Quant Time: Aug 6 9:10 2002

Vial: 5
Operator: BDH
Inst : MARILYN
Multiplr: 1.00

Quant Results File: TO14S.RES

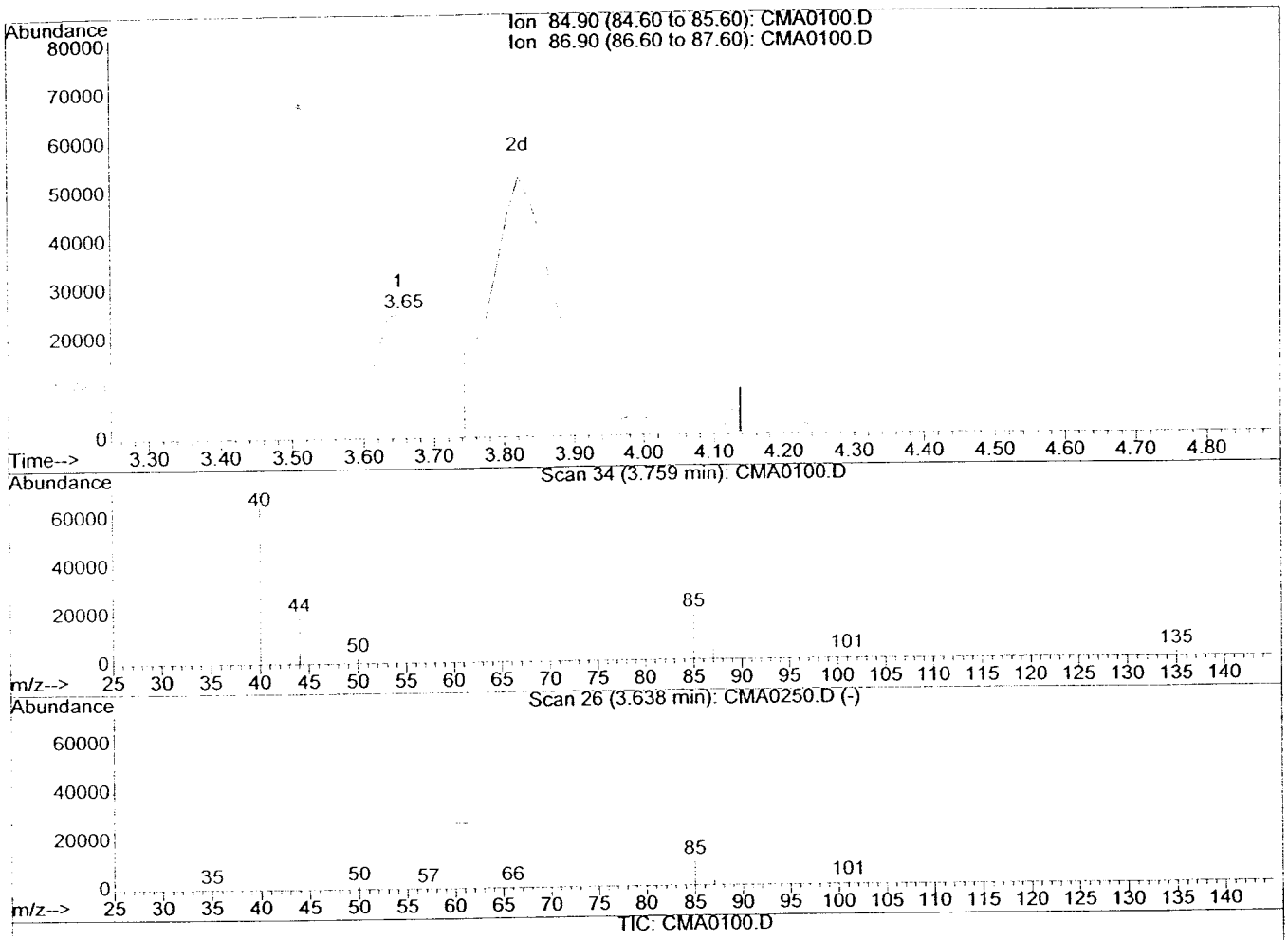
Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Tue Aug 06 09:02:44 2002
Response via : Initial Calibration



Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0100.D
Acq On : 5 Aug 2002 15:48
Sample : 100ng/4uL/20ppb INITIAL CALIB.
Misc : Pi/Pf=1 MA135ABK
MS Integration Params: rteint.p
Quant Time: Aug 5 16:25 2002

Vial: 5
Operator: BDH
Inst : MARILYN
Multiplr: 1.00
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Tue Aug 06 08:35:03 2002
Response via : Multiple Level Calibration



(2) Dichlorodifluoromethane

3.65min 84.55ng

response 183459

Ion	Exp%	Act%
84.90	100	100
86.90	33.50	32.15
0.00	0.00	0.00
0.00	0.00	0.00

before (tailing)

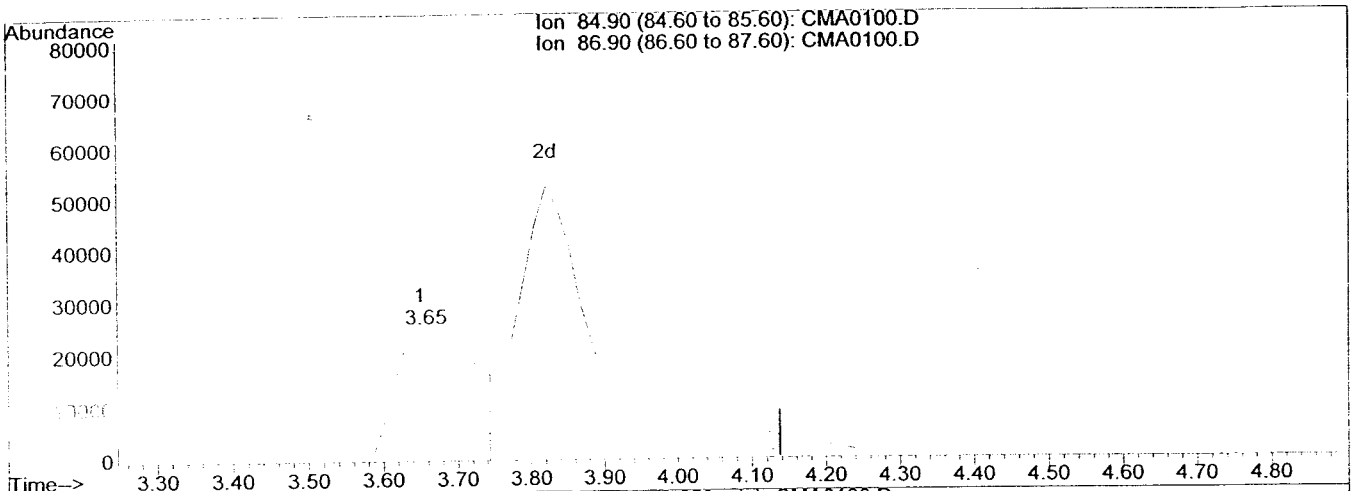
CMA0100.D TO14S.M Tue Aug 06 08:45:20 2002

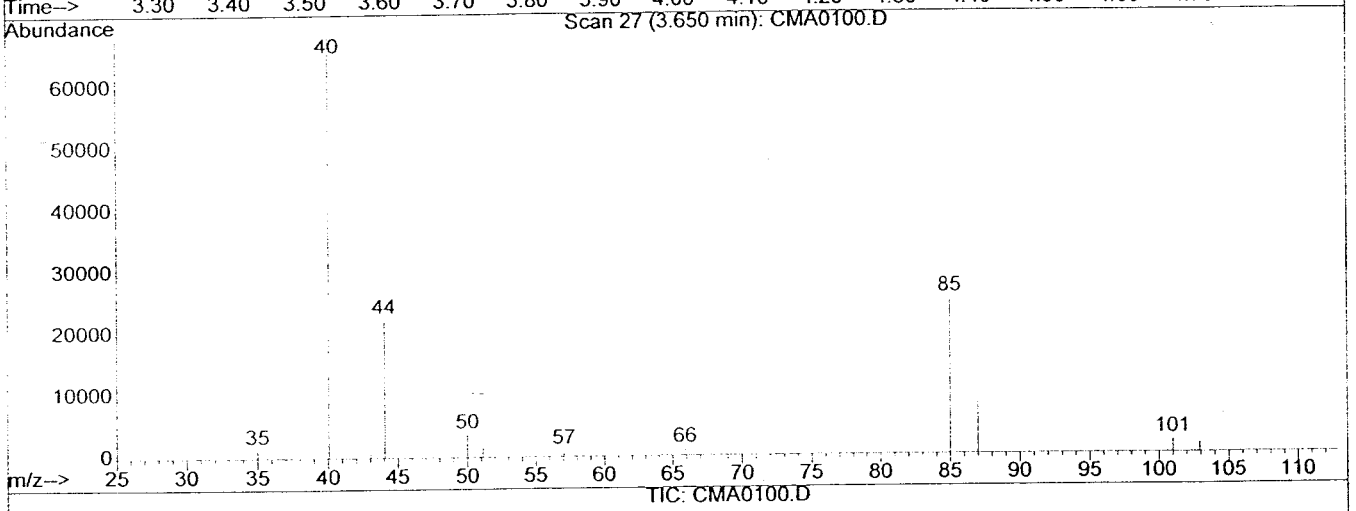
Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0100.D
Acq On : 5 Aug 2002 15:48
Sample : 100ng/4uL/20ppb INITIAL CALIB.
Misc : Pi/Pf=1 MA135ABK
MS Integration Params: rteint.p
Quant Time: Aug 6 9:10 2002

Vial: 5
Operator: BDH
Inst : MARILYN
Multiplr: 1.00

Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Tue Aug 06 09:02:44 2002
Response via : Multiple Level Calibration





(2) Dichlorodifluoromethane

3.65min 84.55ng m

response 183459

Ion	Exp%	Act%
84.90	100	100
86.90	33.50	32.15
0.00	0.00	0.00
0.00	0.00	0.00

Kept
TM 8-6-02

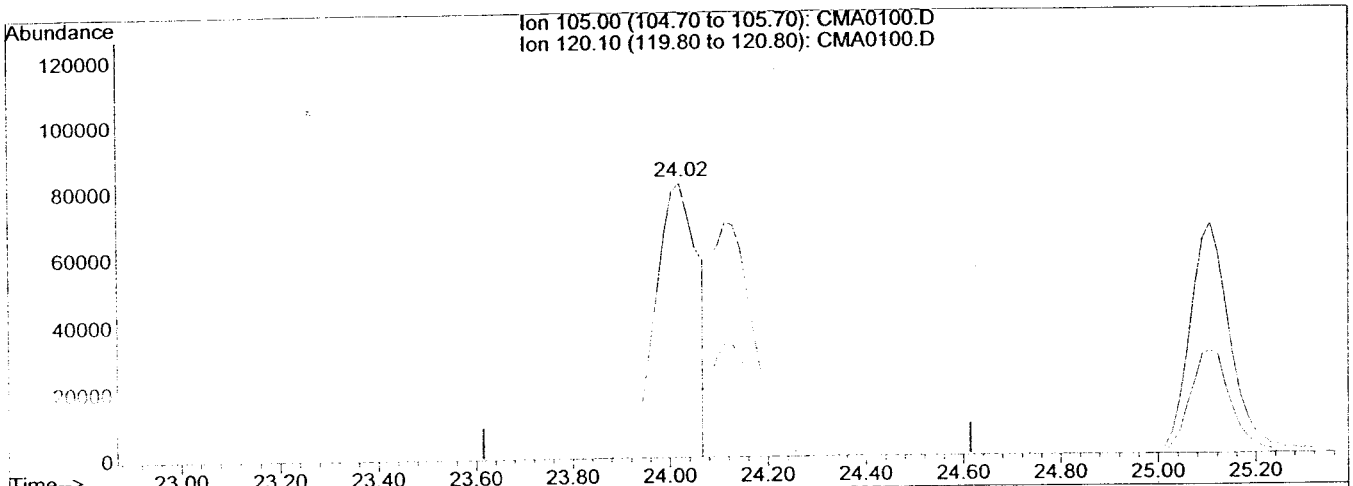
CMA0100.D TO14S.M Tue Aug 06 09:10:41 2002

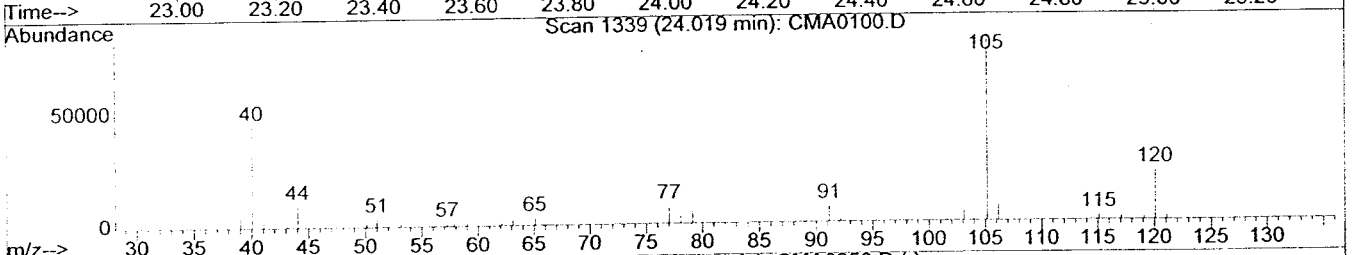
Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0100.D
Acq On : 5 Aug 2002 15:48
Sample : 100ng/4uL/20ppb INITIAL CALIB.
Misc : Pi/Pf=1 MA135ABK
MS Integration Params: rteint.p
Quant Time: Aug 5 16:21 2002

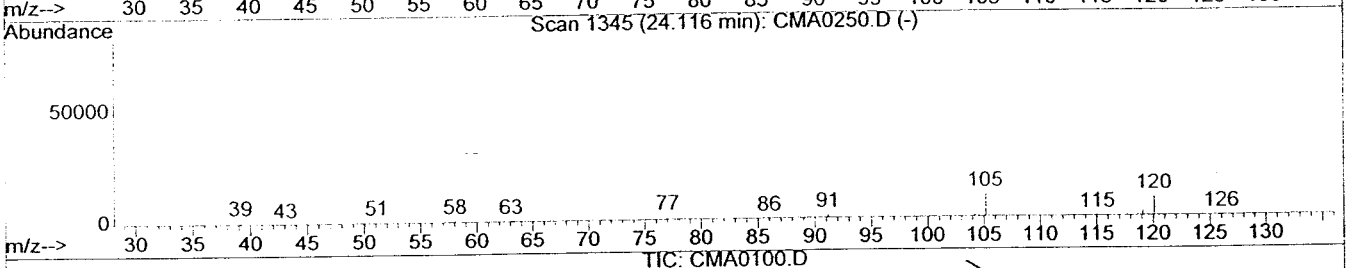
Vial: 5
Operator: BDH
Inst : MARILYN
Multiplr: 1.00

Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Aug 05 15:54:06 2002
Response via : Multiple Level Calibration







TIC: CMA0100.D

(49) 1,3,5-Trimethylbenzene

24.02min 100.71ng

response 493499

Ion	Exp%	Act%
105.00	100	100
120.10	46.70	20.79#
0.00	0.00	0.00
0.00	0.00	0.00

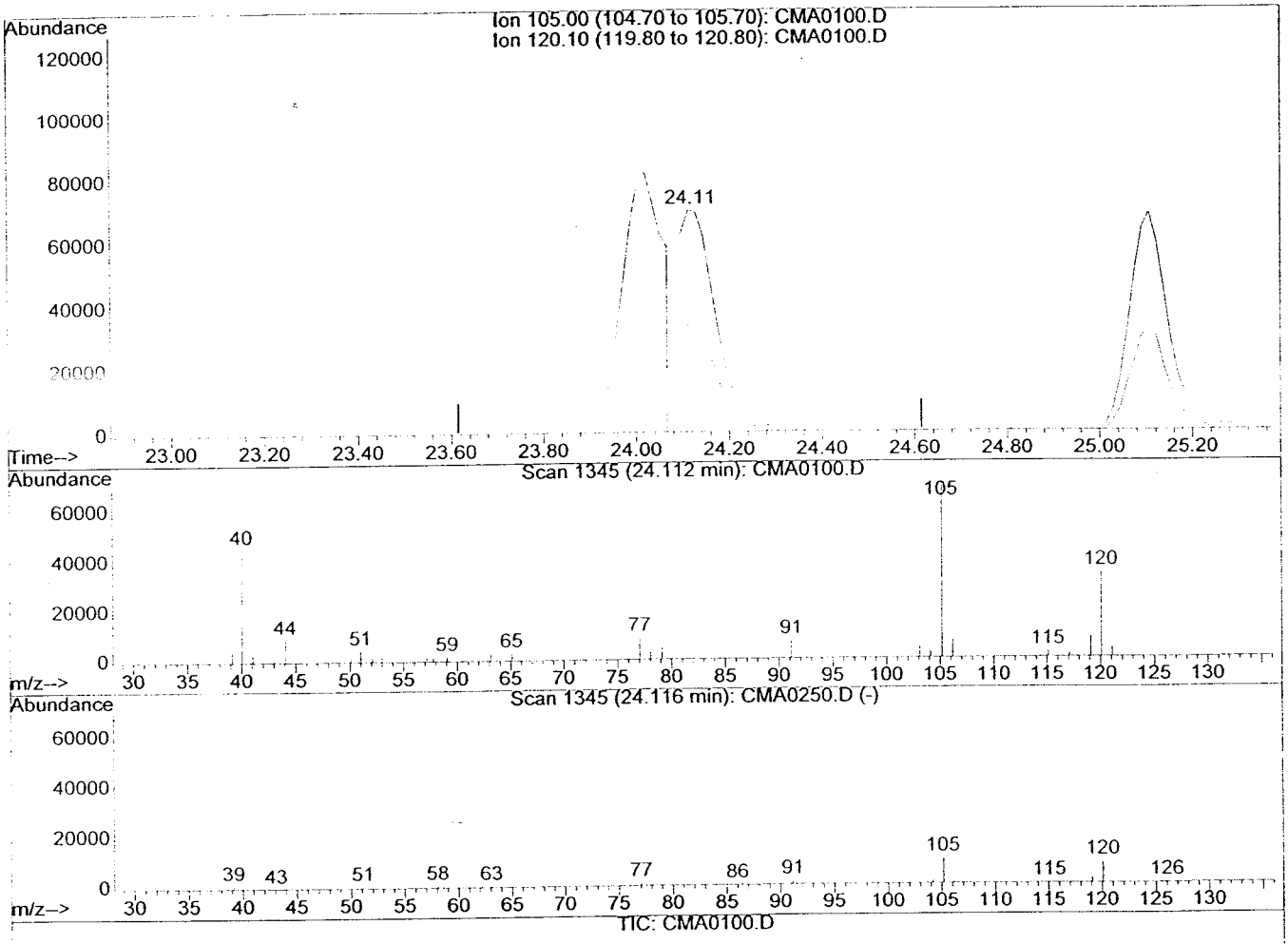
before (mis-integrated)

CMA0100.D TO14S.M Mon Aug 05 16:25:34 2002

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0100.D
Acq On : 5 Aug 2002 15:48
Sample : 100ng/4uL/20ppb INITIAL CALIB.
Misc : Pi/Pf=1 MA135ABK
MS Integration Params: rteint.p
Quant Time: Aug 5 16:25 2002

Vial: 5
Operator: BDH
Inst : MARILYN
Multiplr: 1.00
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Aug 05 15:54:06 2002
Response via : Multiple Level Calibration



(49) 1,3,5-Trimethylbenzene

24.11min 88.37ng m

response 432997

Ion	Exp%	Act%
105.00	100	100
120.10	46.70	23.69#
0.00	0.00	0.00
0.00	0.00	0.00

BH
8/5/02

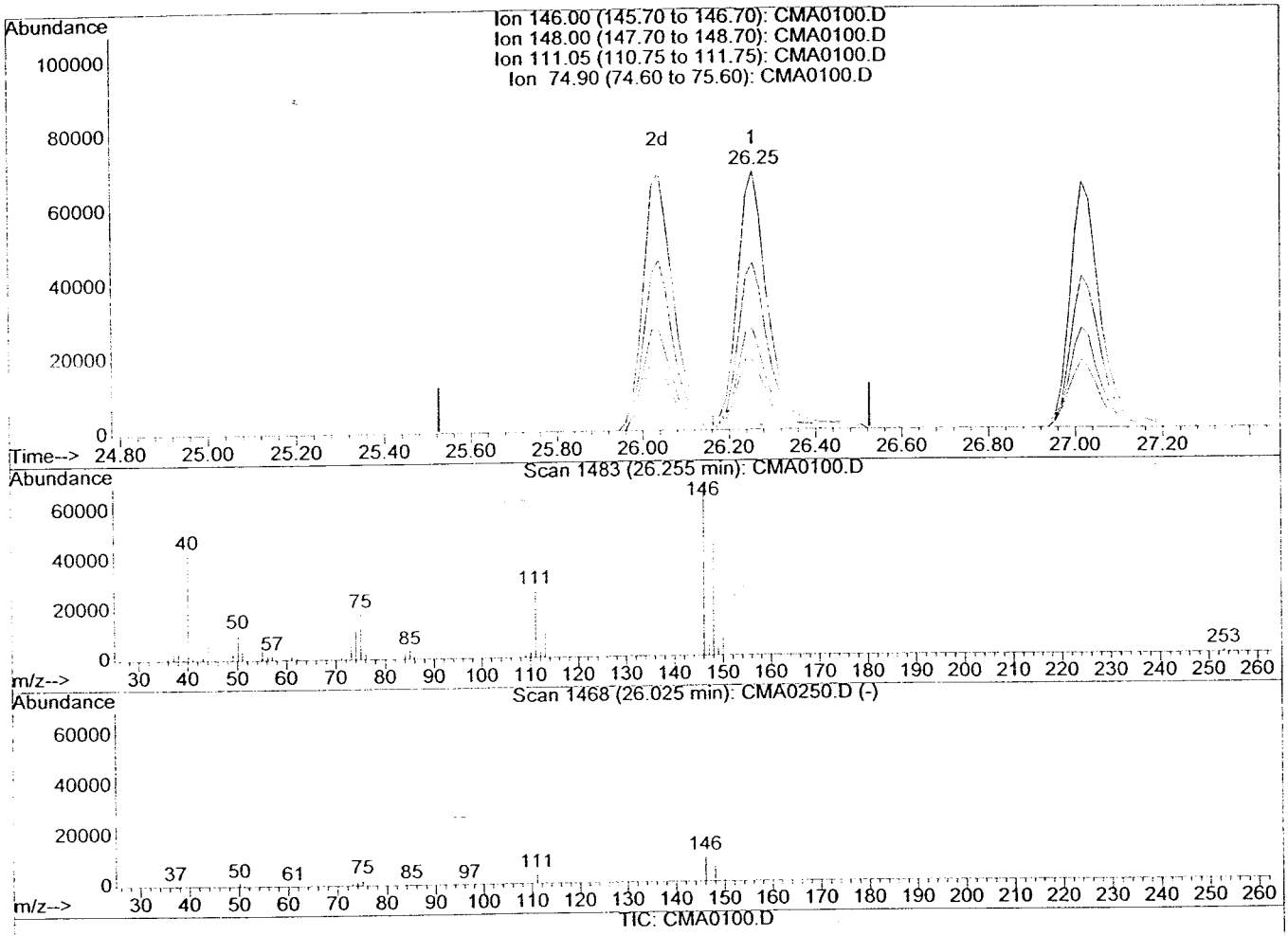
CMA0100.D TO14S.M Mon Aug 05 16:25:43 2002

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0100.D
Acq On : 5 Aug 2002 15:48
Sample : 100ng/4uL/20ppb INITIAL CALIB.
Misc : Pi/Pf=1 MA135ABK
MS Integration Params: rteint.p
Quant Time: Aug 5 16:25 2002

Vial: 5
Operator: BDH
Inst : MARILYN
Multiplr: 1.00

Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Aug 05 15:54:06 2002
Response via : Multiple Level Calibration



(52) 1,3-Dichlorobenzene

26.25min 77.44ng

response 333736

Ion	Exp%	Act%
146.00	100	100
148.00	66.40	65.74
111.05	44.40	40.91
74.90	35.60	29.02

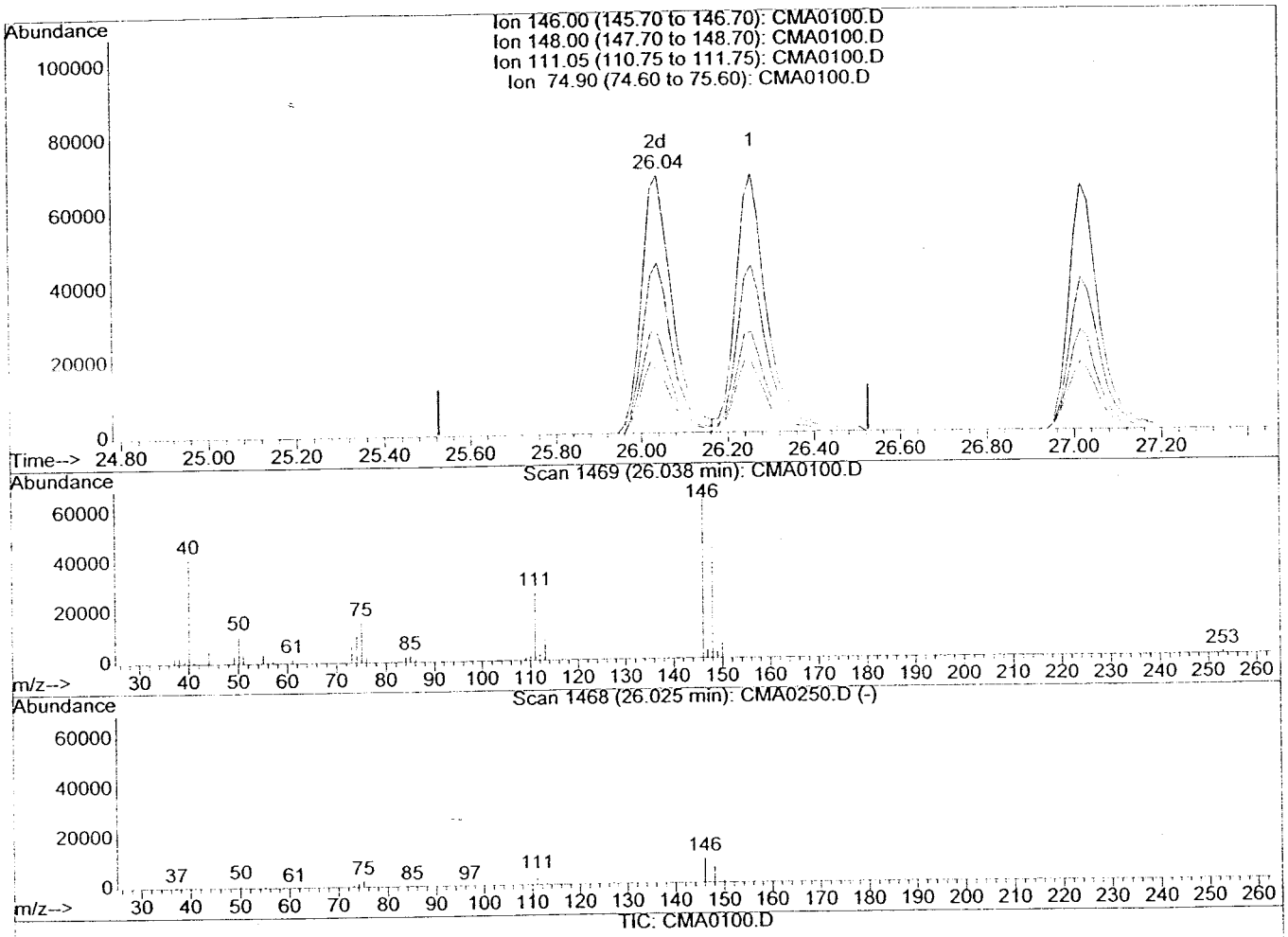
before (wrong peak)

CMA0100.D TO14S.M Mon Aug 05 16:25:52 2002

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0100.D
Acq On : 5 Aug 2002 15:48
Sample : 100ng/4uL/20ppb INITIAL CALIB.
Misc : Pi/Pf=1 MA135ABK
MS Integration Params: rteint.p
Quant Time: Aug 5 16:25 2002

Vial: 5
Operator: BDH
Inst : MARILYN
Multiplr: 1.00
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Aug 05 15:54:06 2002
Response via : Multiple Level Calibration



(52) 1,3-Dichlorobenzene

26.04min 79.70ng m

response 343461

Ion	Exp%	Act%
146.00	100	100
148.00	66.40	63.88
111.05	44.40	39.75
74.90	35.60	28.20#

after
BH
8/5/02

CMA0100.D TO14S.M Mon Aug 05 16:25:58 2002

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0100.D
Acq On : 5 Aug 2002 15:48
Sample : 100ng/4uL/20ppb INITIAL CALIB.
Misc : Pi/Pf=1 MA135ABK
MS Integration Params: rteint.p
Quant Time: Aug 5 16:21 2002

Vial: 5
Operator: BDH
Inst : MARILYN
Multiplr: 1.00

Quant Results File: TO14S.RES

Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Aug 05 15:54:06 2002
Response via : Initial Calibration
DataAcq Meth : TO14S
IS QA File : D:\HPCHEM\1\DATA02\M0805A\CMA0250.D (5 Aug 2002 14:33)

original

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) Bromochloromethane IS#1	11.06	128	529243	250.00	ng	0.01 103.01%
26) 1,4-Difluorobenzene IS#2	12.98	114	2105626	250.00	ng	0.01 98.62%
36) Chlorobenzene-d5 IS#3	20.20	117	1479350	250.00	ng	0.00 102.21%

System Monitoring Compounds

23) 1,2-Dichloroethane d4 SURR	12.17	65	568813	250.32	ng	0.00
Spiked Amount 250.000 Range 61 - 140 Recovery = 100.13%						
32) Toluene-d8 SURR#2	16.47	98	1567801	245.41	ng	0.00
Spiked Amount 250.000 Range 90 - 109 Recovery = 98.16%						
46) 4-Bromofluorobenzene SURR#	23.32	95	1161988	241.94	ng	0.00
Spiked Amount 250.000 Range 87 - 112 Recovery = 96.78%						

Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.65	85	183459	84.55	ng		98
3) Dichlorotetrafluoroethane	3.84	135	242049	130.39	ng	#	60
4) Chloromethane	4.10	50	133967	104.44	ng	#	94
5) Vinyl chloride	4.30	62	130384	101.73	ng	#	88
6) Bromomethane	5.12	94	112078	64.71	ng	#	91
7) Chloroethane	5.25	64	86085	94.57	ng	#	92
8) Trichlorofluoromethane	5.73	101	476470	95.28	ng		99
9) 1,1,2-Trichlorotrifluoroet	6.52	151	389880	91.67	ng		81
10) 1,1-Dichloroethene	6.86	96	198845	93.76	ng		88
12) Methylene chloride	7.76	49	252199	93.87	ng		95
13) Carbon disulfide	7.87	76	564526	96.49	ng		100
14) methyl-Tert-Butyl Ether	8.06	73	392103	96.05	ng		98
15) trans-1,2-Dichloroethene	8.35	96	229351	92.45	ng		93
16) n-Hexane	8.46	57	228658	96.98	ng	#	1
17) 1,1-Dichloroethane	9.16	63	376411	94.02	ng		98
18) cis-1,2-Dichloroethene	10.37	61	298397	92.94	ng		90
19) Chloroform	10.70	83	453201	93.20	ng		98
20) Isooctane	11.65	57	720395	90.91	ng		95
21) 1,1,1-Trichloroethane	11.54	97	399989	89.55	ng		90
22) Carbon tetrachloride	12.11	117	405666	86.49	ng		98
24) 1,2-Dichloroethane	12.38	62	223751	91.42	ng	#	98
25) 1,2-Dibromoethane	19.25	107	390520	87.70	ng		99
27) Benzene	12.45	78	542374	96.50	ng		96

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0100.D
Acq On : 5 Aug 2002 15:48
Sample : 100ng/4uL/20ppb INITIAL CALIB.
Misc : Pi/Pf=1 MA135ABK
MS Integration Params: rteint.p
Quant Time: Aug 5 16:21 2002

Vial: 5
Operator: BDH
Inst : MARILYN
Multiplr: 1.00

Quant Results File: TO14S.RES

Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Aug 05 15:54:06 2002
Response via : Initial Calibration
DataAcq Meth : TO14S

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
28) Trichloroethene	13.76	130	302294	90.08 ng		94
29) 1,2-Dichloropropane	14.13	63	229007	95.22 ng		96
30) Bromodichloromethane	14.66	83	522778	93.36 ng		99
31) cis-1,3-Dichloropropene	15.87	75	340593	91.88 ng		95
33) Toluene	16.68	92	336212	87.55 ng	#	97
34) trans-1,3-Dichloropropene	17.03	75	287004	91.45 ng		99
35) 1,1,2-Trichloroethane	17.44	97	220955	89.14 ng		96
37) Tetrachloroethene	18.26	164	284540	90.18 ng		92
38) Dibromochloromethane	18.74	127	384241	93.19 ng		97
39) Chlorobenzene	20.29	112	466088	89.70 ng		94
40) Ethylbenzene	20.40	106	180645	88.68 ng		96
41) m,p-Xylene	20.60	106	439375	167.71 ng		95
42) o-Xylene	21.74	106	205641	82.16 ng		97
43) Styrene	21.81	104	348638	81.14 ng		94
44) Bromoform	22.75	173	404965	89.43 ng		99
45) 1,1,2,2-Tetrachloroethane	23.07	83	354162	95.89 ng		100
47) 1,4-Dichloro-2-butene	22.72	75	80871	99.52 ng		87
48) 4-Ethyltoluene	24.02	105	493499	77.29 ng	#	85
49) 1,3,5-Trimethylbenzene	24.02	105	493499	100.71 ng	#	61
50) 2-Chlorotoluene	24.22	91	531601	84.01 ng		99
51) 1,2,4-Trimethylbenzene	25.11	105	398786	79.10 ng		99
52) 1,3-Dichlorobenzene	26.25	146	333736	77.44 ng		95
53) 1,4-Dichlorobenzene	26.25	146	361367	80.40 ng	#	93
54) 1,2-Dichlorobenzene	27.02	146	325085	80.55 ng	#	91
55) 1,2,4-Trichlorobenzene	30.15	180	209130	28.49 ng		97
56) Napthalene	30.68	128	274883	24.93 ng	#	90
57) Hexachlorobutadiene	30.38	225	172050	47.66 ng		100

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0250.D
Acq On : 5 Aug 2002 14:33
Sample : 250ng/10uL/50ppb INITIAL CALIB.
Misc : Pi/Pf=1 MA135ABK
MS Integration Params: rteint.p
Quant Time: Aug 6 9:13 2002

Vial: 3
Operator: BDH
Inst : MARILYN
Multiplr: 1.00

Quant Results File: TO14S.RES

Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Jul 22 10:42:36 2002
Response via : Initial Calibration
DataAcq Meth : TO14S
IS QA File : D:\HPCHEM\1\DATA02\M0722A\CM0722A.D (22 Jul 2002 9:57)

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) Bromochloromethane IS#1	11.04	128	513758	250.00	ng	-0.12 127.79%
26) 1,4-Difluorobenzene IS#2	12.97	114	2135053	250.00	ng	-0.13 131.07%
36) Chlorobenzene-d5 IS#3	20.20	117	1447407	250.00	ng	-0.18 117.32%

System Monitoring Compounds						
23) 1,2-Dichloroethane d4 SURR	12.18	65	554812m	257.22	ng	-0.13
Spiked Amount 250.000 Range 61 - 140 Recovery = 102.89%						
32) Toluene-d8 SURR#2	16.48	98	1555851	236.41	ng	-0.16
Spiked Amount 250.000 Range 90 - 109 Recovery = 94.56%						
46) 4-Bromofluorobenzene SURR#	23.32	95	1122647	233.28	ng	-0.19
Spiked Amount 250.000 Range 87 - 112 Recovery = 93.31%						

Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.64	85	434996m	252.74	ng	#	100
3) Dichlorotetrafluoroethane	3.82	135	686897m	345.84	ng		49
4) Chloromethane	4.10	50	382183	333.51	ng	#	95
5) Vinyl chloride	4.31	62	374002	299.64	ng		97
6) Bromomethane	5.13	94	300126	154.51	ng	#	95
7) Chloroethane	5.24	64	250820	265.36	ng		95
8) Trichlorofluoromethane	5.72	101	1407395	300.09	ng		100
9) 1,1,2-Trichlorotrifluoroet	6.51	151	1172168	291.36	ng		81
10) 1,1-Dichloroethene	6.87	96	601591	306.27	ng		87
12) Methylene chloride	7.77	49	708232	280.64	ng		94
13) Carbon disulfide	7.86	76	1631270	299.97	ng		100
14) methyl-Tert-Butyl Ether	8.06	73	1113348	291.52	ng		98
15) trans-1,2-Dichloroethene	8.34	96	688623	300.23	ng		92
16) n-Hexane	8.45	57	641702	312.35	ng	#	1
17) 1,1-Dichloroethane	9.16	63	1109055	294.06	ng		99
18) cis-1,2-Dichloroethene	10.38	61	890816	295.49	ng		91
19) Chloroform	10.70	83	1342692	290.55	ng		98
20) Isooctane	11.65	57	2126597	302.06	ng		94
21) 1,1,1-Trichloroethane	11.54	97	1216948	286.01	ng		89
22) Carbon tetrachloride	12.10	117	1231579	270.23	ng		99
24) 1,2-Dichloroethane	12.38	62	644859	278.04	ng	#	97
25) 1,2-Dibromoethane	19.26	107	1151963	272.93	ng		98
27) Benzene	12.44	78	1576639	283.83	ng		97

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0250.D
Acq On : 5 Aug 2002 14:33
Sample : 250ng/10uL/50ppb INITIAL CALIB.
Misc : Pi/Pf=1 MA135ABK
MS Integration Params: rteint.p
Quant Time: Aug 6 9:13 2002

Vial: 3
Operator: BDH
Inst : MARILYN
Multiplr: 1.00

Quant Results File: TO14S.RES

Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Jul 22 10:42:36 2002
Response via : Initial Calibration
DataAcq Meth : TO14S

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
28) Trichloroethene	13.76	130	902272	264.90 ng		93
29) 1,2-Dichloropropane	14.13	63	668662	279.79 ng		94
30) Bromodichloromethane	14.66	83	1525599	270.00 ng		99
31) cis-1,3-Dichloropropene	15.86	75	1010217	271.88 ng		94
33) Toluene	16.66	92	1002777	252.16 ng	#	98
34) trans-1,3-Dichloropropene	17.02	75	842619	268.49 ng		98
35) 1,1,2-Trichloroethane	17.42	97	661739	265.55 ng		96
37) Tetrachloroethene	18.26	164	838662	270.12 ng		91
38) Dibromochloromethane	18.74	127	1127298	287.32 ng	#	96
39) Chlorobenzene	20.30	112	1371068	266.17 ng		92
40) Ethylbenzene	20.41	106	529523	260.44 ng		99
41) m,p-Xylene	20.61	106	1313633	492.92 ng		94
42) o-Xylene	21.74	106	623134	242.48 ng		98
43) Styrene	21.82	104	1051850	237.66 ng		94
44) Bromoform	22.73	173	1218411	282.41 ng		100
45) 1,1,2,2-Tetrachloroethane	23.08	83	1047650	307.25 ng		99
47) 1,4-Dichloro-2-butene	22.72	75	240027	332.54 ng		90
48) 4-Ethyltoluene	24.01	105	1532808	235.48 ng		94
49) 1,3,5-Trimethylbenzene	24.12	105	1276149	246.62 ng		92
50) 2-Chlorotoluene	24.21	91	1523283	230.94 ng		95
51) 1,2,4-Trimethylbenzene	25.09	105	1193077	222.40 ng		98
52) 1,3-Dichlorobenzene	26.03	146	1016137m	220.92 ng		93
53) 1,4-Dichlorobenzene	26.24	146	1034312	214.89 ng	#	93
54) 1,2-Dichlorobenzene	27.02	146	981458	228.49 ng	#	92
55) 1,2,4-Trichlorobenzene	30.14	180	643383	187.53 ng		99
56) Napthalene	30.67	128	916400	231.31 ng	#	90
57) Hexachlorobutadiene	30.37	225	507487	156.15 ng		99

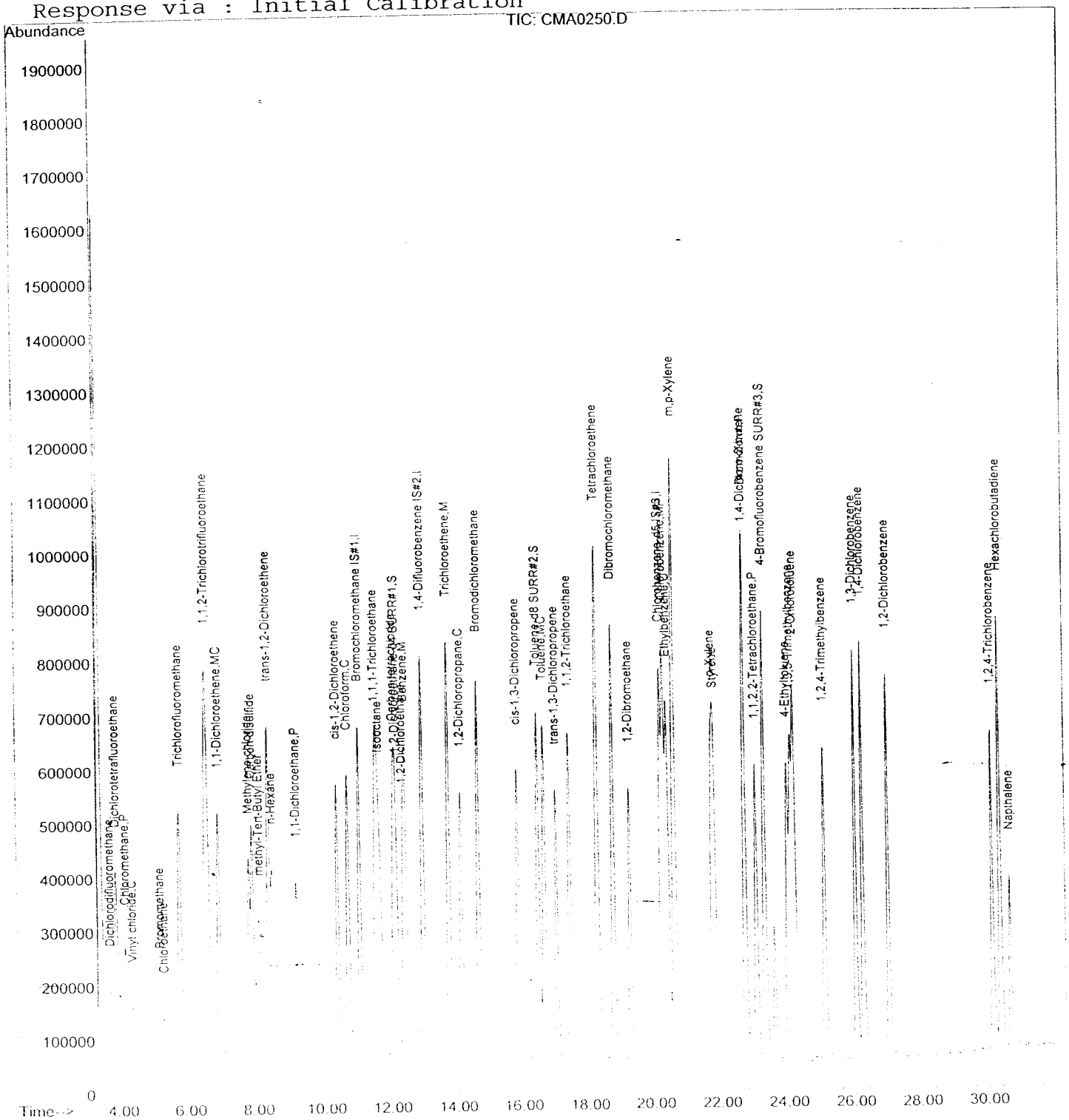
(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0250.D
Acq On : 5 Aug 2002 14:33
Sample : 250ng/10uL/50ppb INITIAL CALIB.
Misc : Pi/Pf=1 MA135ABK
MS Integration Params: rteint.p
Quant Time: Aug 6 9:13 2002

Vial: 3
Operator: BDH
Inst : MARILYN
Multiplr: 1.00

Quant Results File: TO14S.RES

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Tue Aug 06 09:02:44 2002
Response via : Initial Calibration

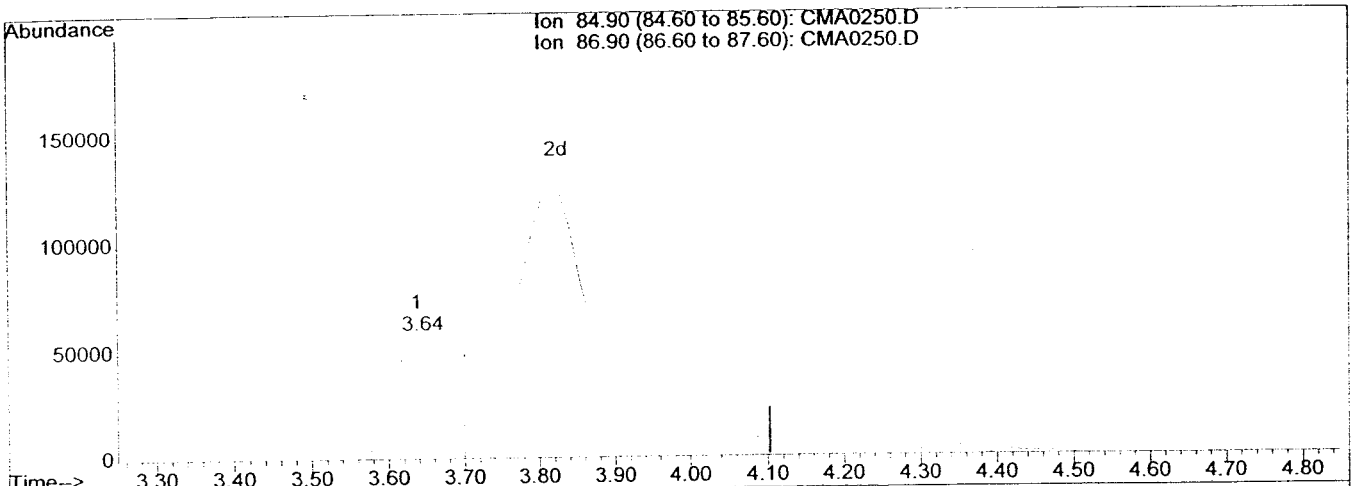


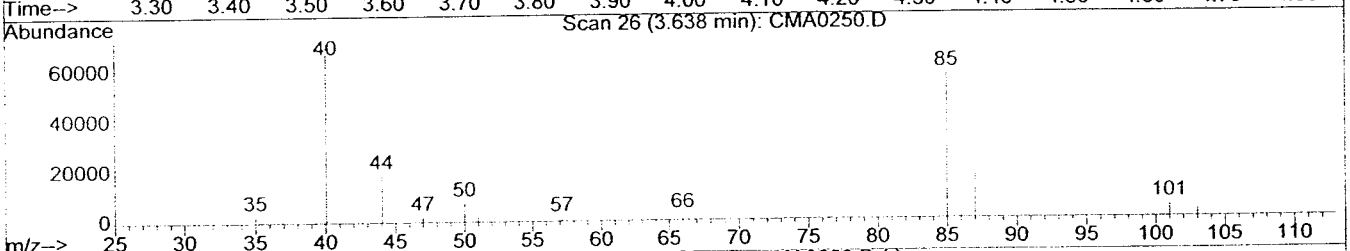
CMA0250.D TO14S.M Tue Aug 06 09:14:03 2002 Page 3

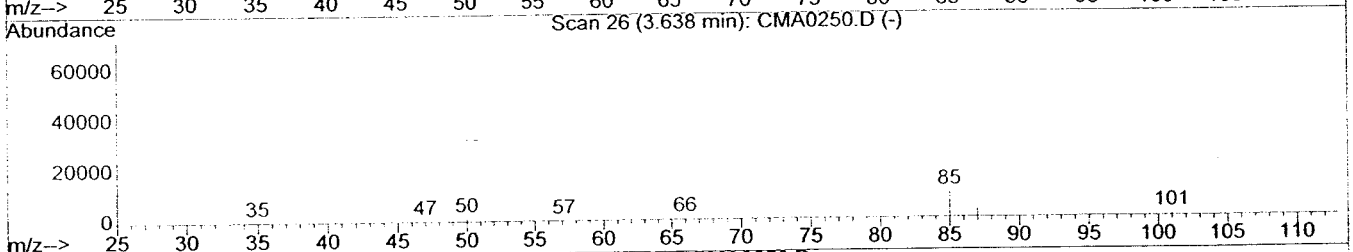
Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0250.D
Acq On : 5 Aug 2002 14:33
Sample : 250ng/10uL/50ppb INITIAL CALIB.
Misc : Pi/Pf=1 MA135ABK
MS Integration Params: rteint.p
Quant Time: Aug 5 15:33 2002

Vial: 3
Operator: BDH
Inst : MARILYN
Multiplr: 1.00
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Tue Aug 06 08:35:03 2002
Response via : Multiple Level Calibration







TIC: CMA0250.D

(2) Dichlorodifluoromethane

3.64min 198.33ng

response 341345

Ion	Exp%	Act%
84.90	100	100
86.90	33.50	33.22
0.00	0.00	0.00
0.00	0.00	0.00

before (tailing)

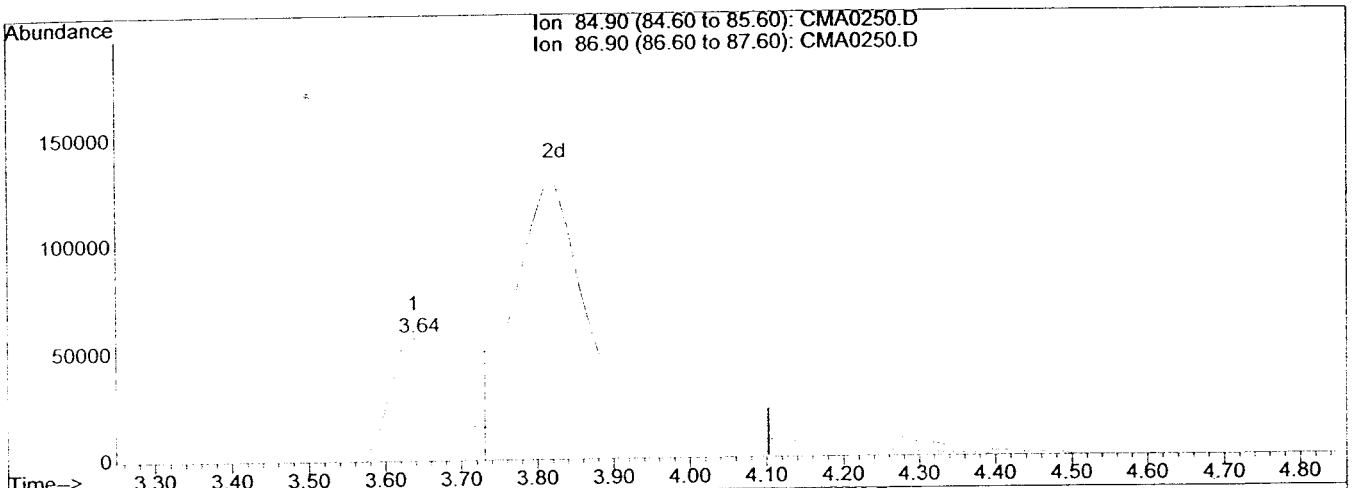
CMA0250.D TO14S.M Tue Aug 06 08:49:39 2002

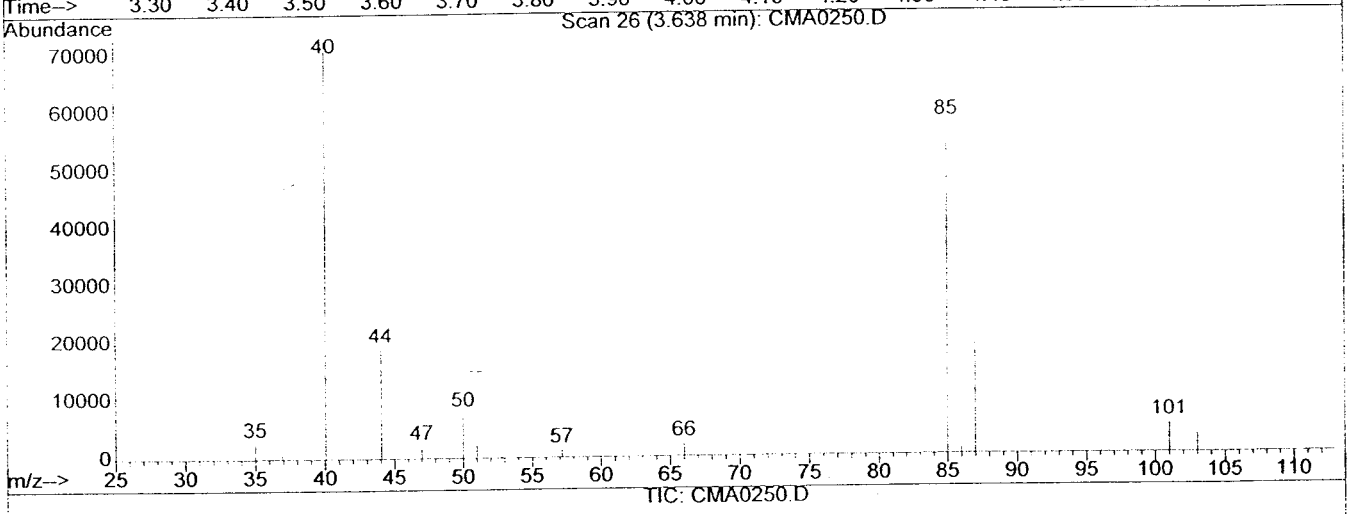
Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0250.D
Acq On : 5 Aug 2002 14:33
Sample : 250ng/10uL/50ppb INITIAL CALIB.
Misc : Pi/Pf=1 MA135ABK
MS Integration Params: rteint.p
Quant Time: Aug 6 9:13 2002

Vial: 3
Operator: BDH
Inst : MARILYN
Multiplr: 1.00
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Tue Aug 06 09:02:44 2002
Response via : Multiple Level Calibration





(2) Dichlorodifluoromethane

3.64min 252.74ng m

response 434996

Ion	Exp%	Act%
84.90	100	100
86.90	33.50	26.07#
0.00	0.00	0.00
0.00	0.00	0.00

BD 8-6-02

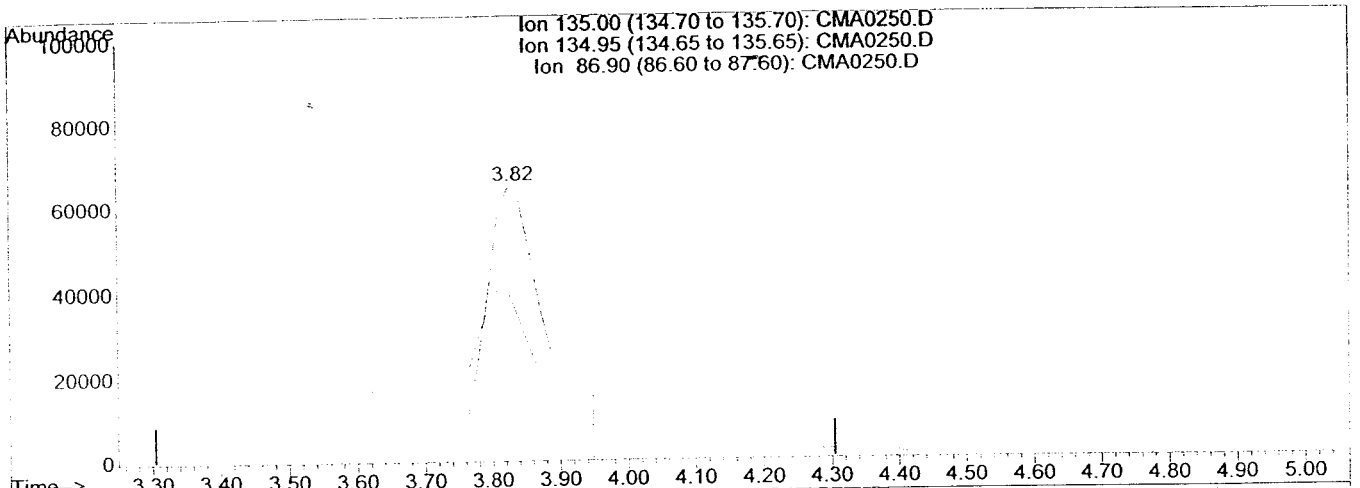
CMA0250.D TO14S.M Tue Aug 06 09:13:33 2002

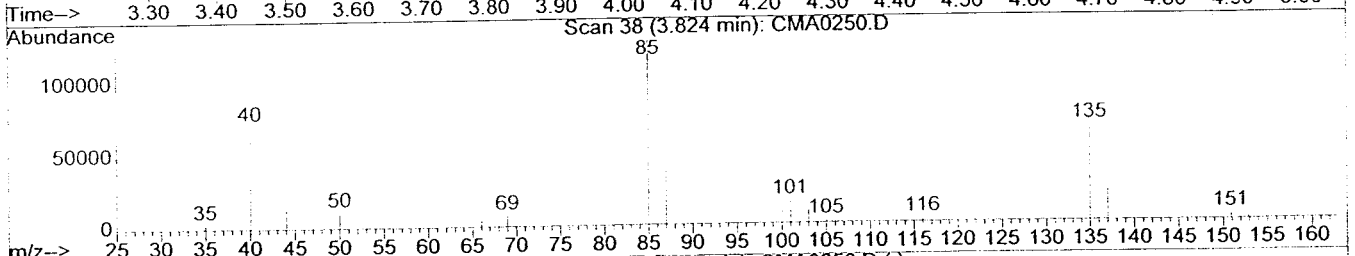
Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0250.D
Acq On : 5 Aug 2002 14:33
Sample : 250ng/10uL/50ppb INITIAL CALIB.
Misc : Pi/Pf=1 MA135ABK
MS Integration Params: rteint.p
Quant Time: Aug 6 8:49 2002

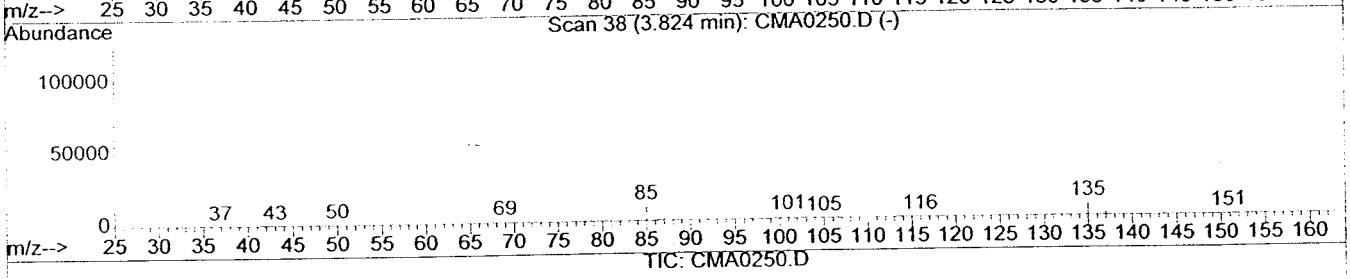
Vial: 3
Operator: BDH
Inst : MARILYN
Multiplr: 1.00

Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Tue Aug 06 08:35:03 2002
Response via : Multiple Level Calibration







TIC: CMA0250.D

(3) Dichlorotetrafluoroethane

3.82min 208.29ng

response 413691

Ion	Exp%	Act%
135.00	100	100
134.95	56.30	100.00#
86.90	32.70	52.61#
0.00	0.00	0.00

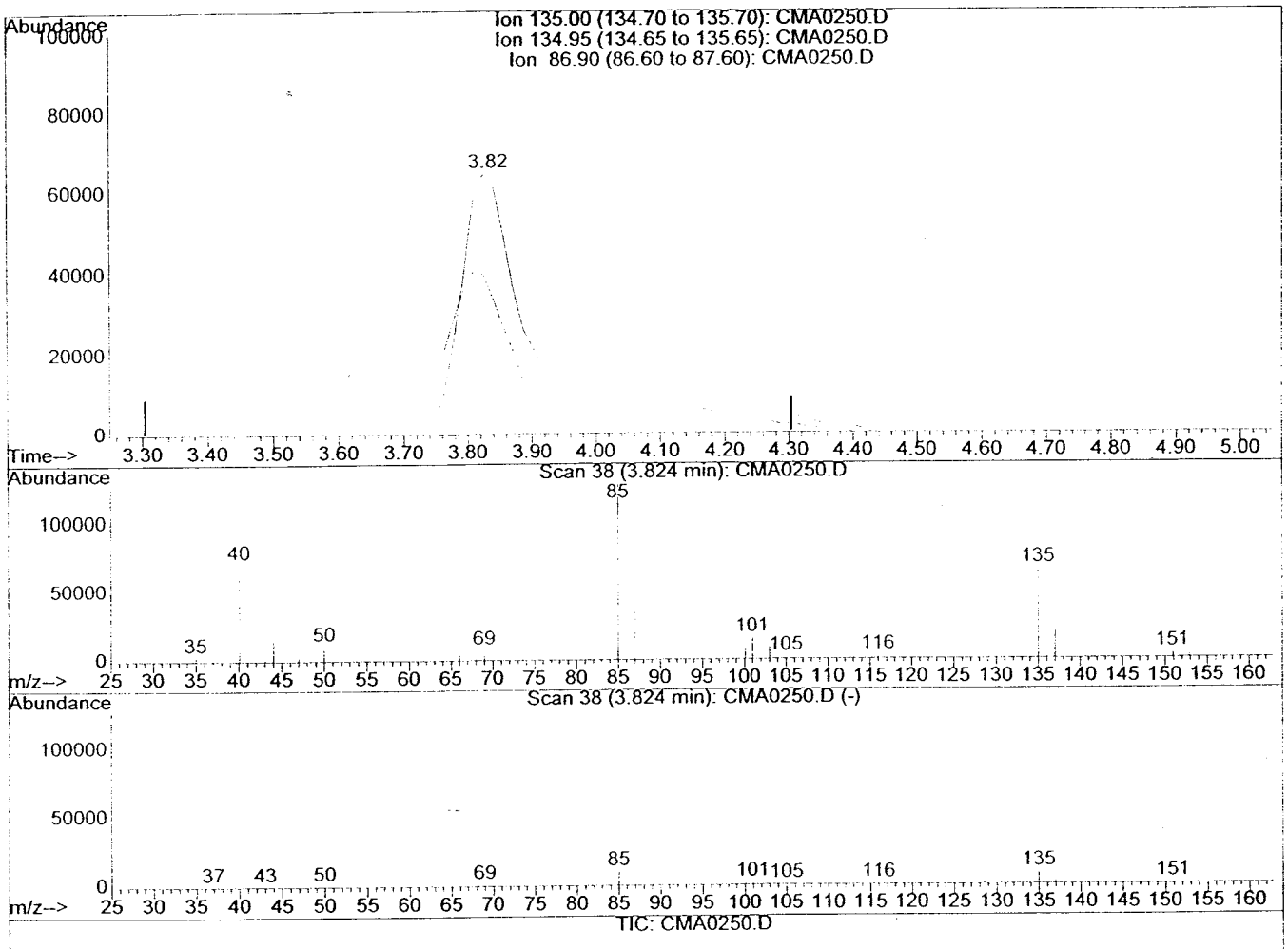
be tail (tailing)

CMA0250.D TO14S.M Tue Aug 06 08:49:57 2002

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0250.D
Acq On : 5 Aug 2002 14:33
Sample : 250ng/10uL/50ppb INITIAL CALIB.
Misc : Pi/Pf=1 MA135ABK
MS Integration Params: rteint.p
Quant Time: Aug 6 8:50 2002

Vial: 3
Operator: BDH
Inst : MARILYN
Multiplr: 1.00
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Tue Aug 06 08:35:03 2002
Response via : Multiple Level Calibration



(3) Dichlorotetrafluoroethane

3.82min 345.84ng m

response 686897

Ion	Exp%	Act%
135.00	100	100
134.95	56.30	60.23
86.90	32.70	31.69
0.00	0.00	0.00

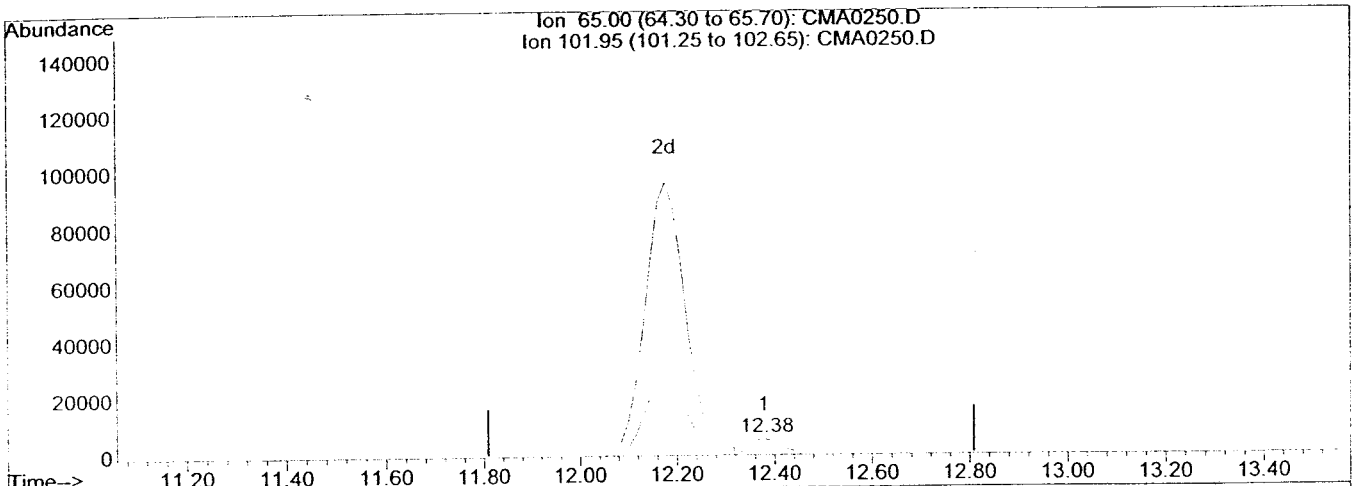
after BH 8-6-02

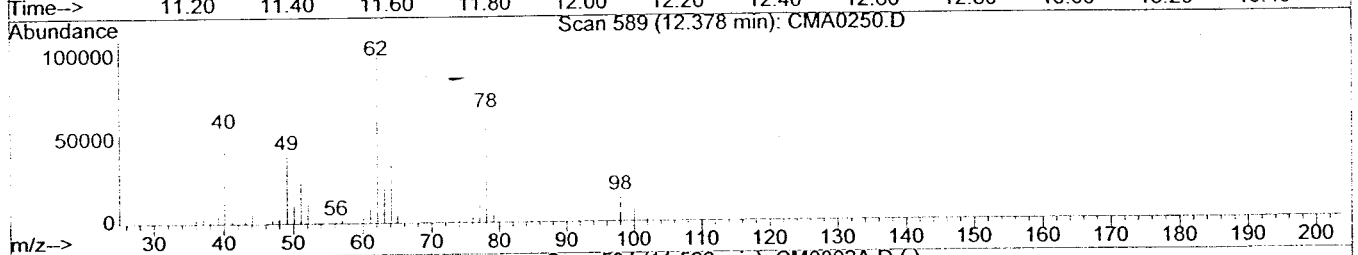
CMA0250.D TO14S.M Tue Aug 06 08:50:06 2002

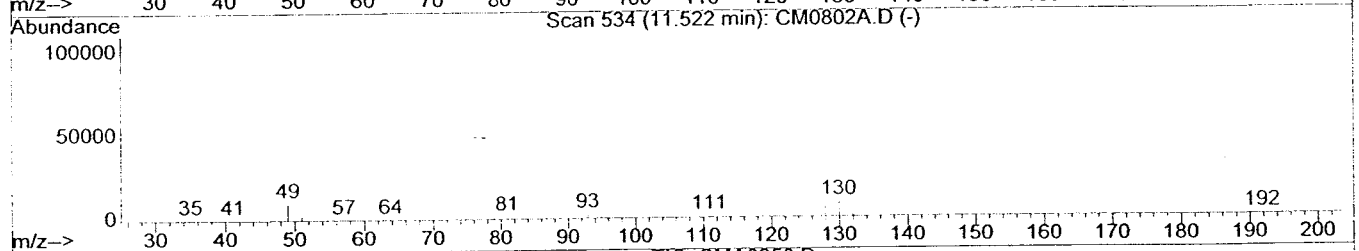
Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0250.D
Acq On : 5 Aug 2002 14:33
Sample : 250ng/10uL/50ppb INITIAL CALIB.
Misc : Pi/Pf=1 MA135ABK
MS Integration Params: rteint.p
Quant Time: Aug 5 15:05 2002

Vial: 3
Operator: BDH
Inst : MARILYN
Multiplr: 1.00
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\8260W50.M (RTE Integrator)
Title : 8260
Last Update : Sun Aug 04 20:59:43 2002
Response via : Multiple Level Calibration







TIC: CMA0250.D

(23) 1,2-Dichloroethane d4 SURR#1 (S)

12.38min 13.50ng

response 29116

Ion	Exp%	Act%
65.00	100	100
101.95	22.40	30.92#
0.00	0.00	0.00
0.00	0.00	0.00

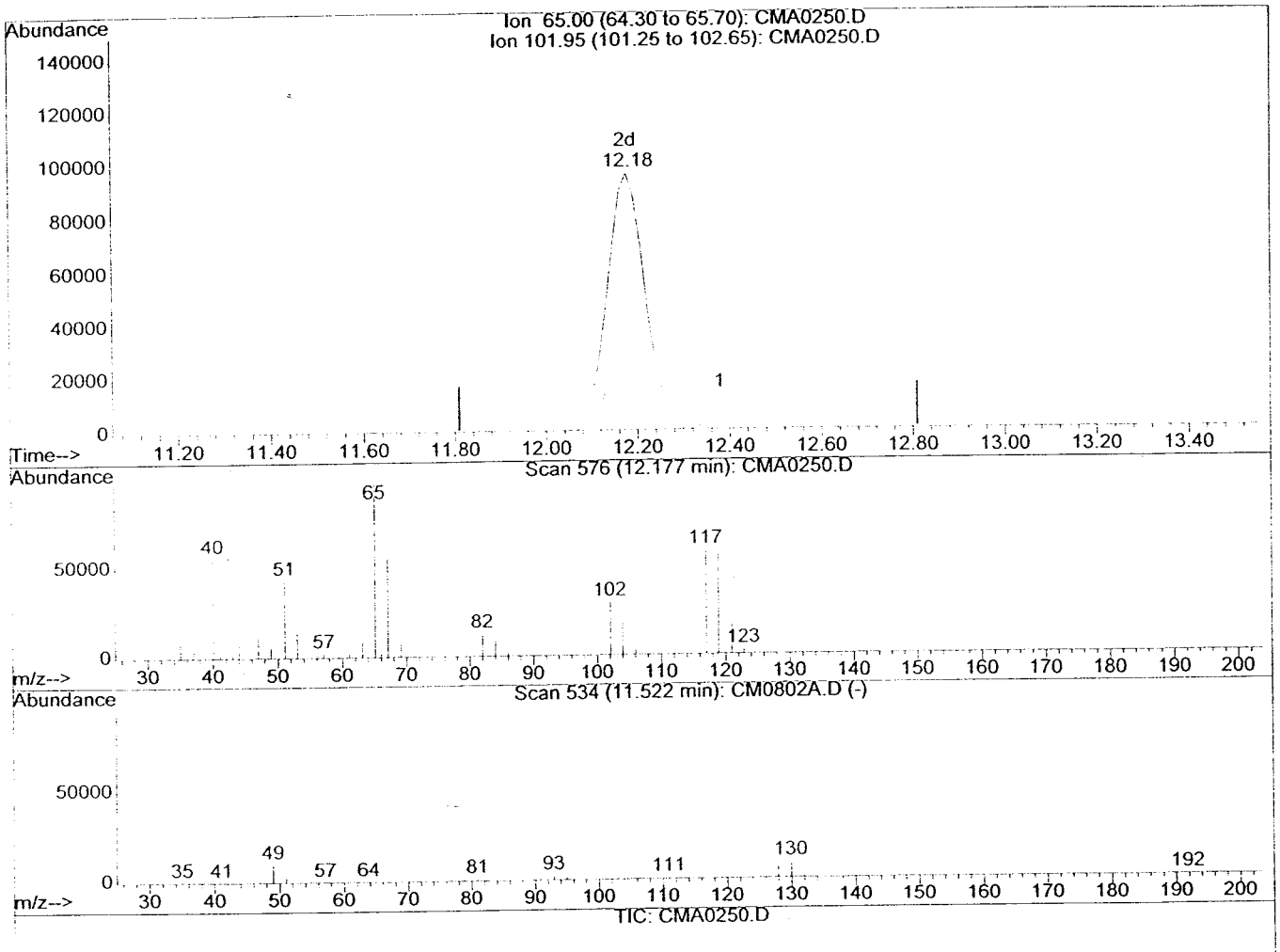
before missed peak

CMA0250.D 8260W50.M Mon Aug 05 15:32:16 2002

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0250.D
Acq On : 5 Aug 2002 14:33
Sample : 250ng/10uL/50ppb INITIAL CALIB.
Misc : Pi/Pf=1 MA135ABK
MS Integration Params: rteint.p
Quant Time: Aug 5 15:32 2002

Vial: 3
Operator: BDH
Inst : MARILYN
Multiplr: 1.00
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\8260W50.M (RTE Integrator)
Title : 8260
Last Update : Sun Aug 04 20:59:43 2002
Response via : Multiple Level Calibration



(23) 1,2-Dichloroethane d4 SURR#1 (S)

12.18min 257.22ng m

response 554812

Ion	Exp%	Act%
65.00	100	100
101.95	22.40	1.62#
0.00	0.00	0.00
0.00	0.00	0.00

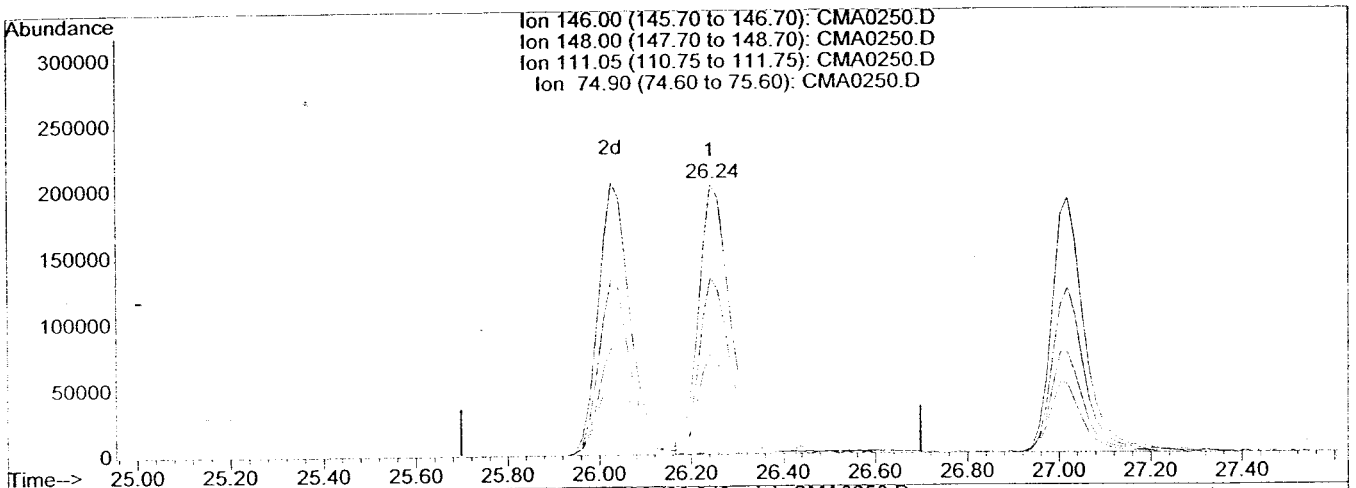
8/5/02

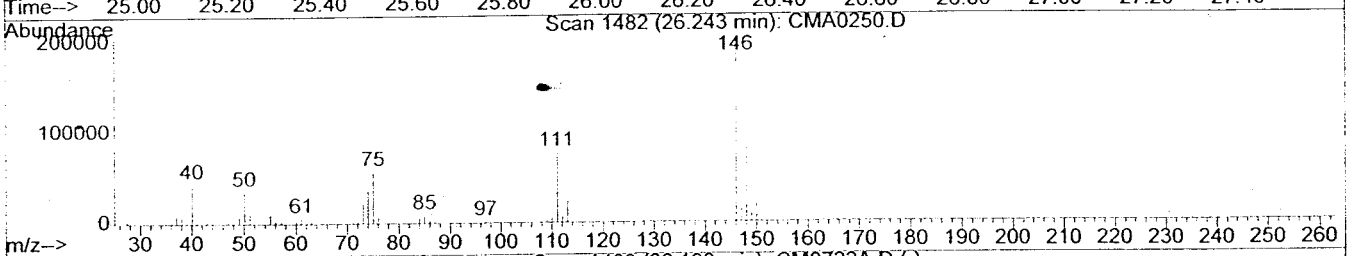
CMA0250.D 8260W50.M Mon Aug 05 15:32:25 2002

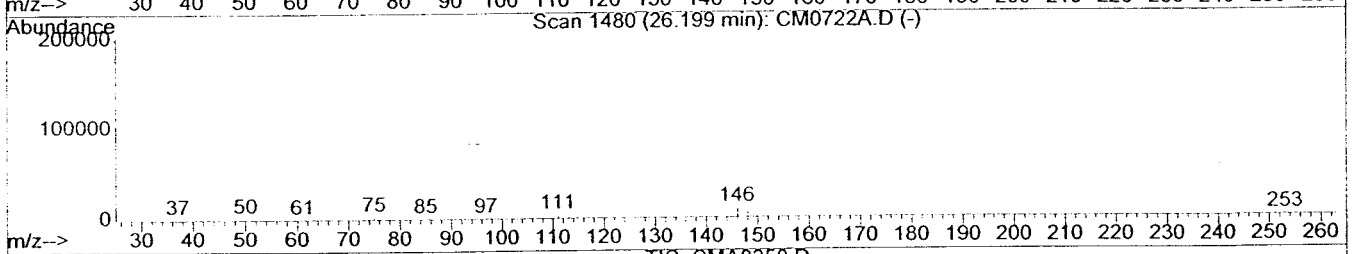
Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0250.D
Acq On : 5 Aug 2002 14:33
Sample : 250ng/10uL/50ppb INITIAL CALIB.
Misc : Pi/Pf=1 MA135ABK
MS Integration Params: rteint.p
Quant Time: Aug 5 15:32 2002

Vial: 3
Operator: BDH
Inst : MARILYN
Multiplr: 1.00
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Jul 22 10:42:36 2002
Response via : Multiple Level Calibration







TIC: CMA0250.D

(52) 1,3-Dichlorobenzene

26.24min 223.44ng

response 1027733

Ion	Exp%	Act%
146.00	100	100
148.00	66.40	65.97
111.05	44.40	37.34
74.90	35.60	28.29#

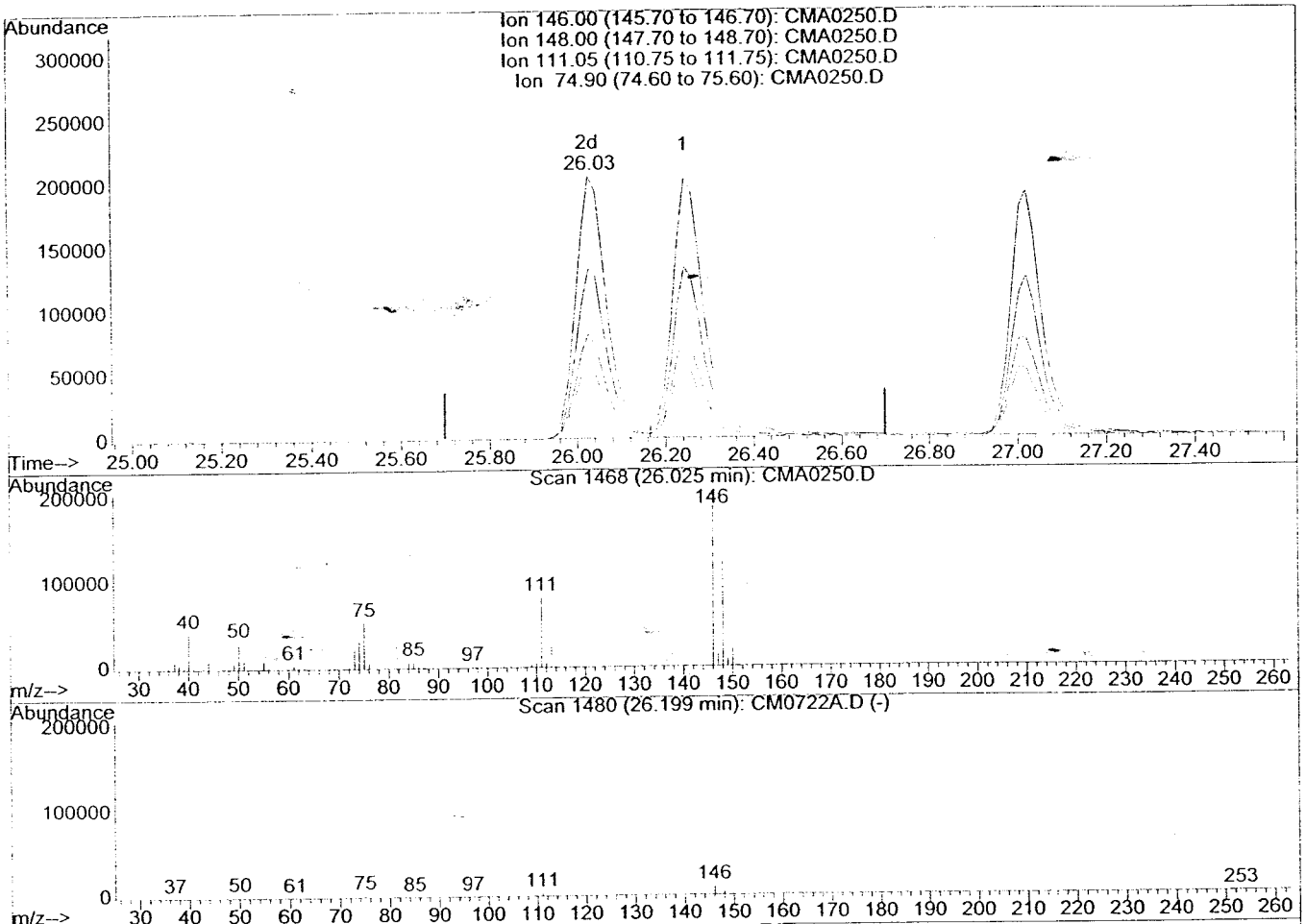
before
(wrong peak)

CMA0250.D TO14S.M Mon Aug 05 15:33:45 2002

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0250.D
Acq On : 5 Aug 2002 14:33
Sample : 250ng/10uL/50ppb INITIAL CALIB.
Misc : Pi/Pf=1 MA135ABK
MS Integration Params: rteint.p
Quant Time: Aug 5 15:33 2002

Vial: 3
Operator: BDH
Inst : MARILYN
Multiplr: 1.00
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Jul 22 10:42:36 2002
Response via : Multiple Level Calibration



(52) 1,3-Dichlorobenzene

26.03min 220.92ng m

response 1016137

Ion	Exp%	Act%
146.00	100	100
148.00	66.40	66.72
111.05	44.40	37.76
74.90	35.60	28.61

8/5/02

CMA0250.D TO14S.M Mon Aug 05 15:33:50 2002

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0250.D
Acq On : 5 Aug 2002 14:33
Sample : 250ng/10uL/50ppb INITIAL CALIB.
Misc : Pi/Pf=1 MA135ABK
MS Integration Params: rteint.p
Quant Time: Aug 5 15:05 2002

Vial: 3
Operator: BDH
Inst : MARILYN
Multiplr: 1.00

Quant Results File: TO14S.RES

Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Jul 22 10:42:36 2002
Response via : Initial Calibration
DataAcq Meth : TO14S
IS QA File : D:\HPCHEM\1\DATA02\M0722A\CM0722A.D (22 Jul 2002 9:57)

original

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) Bromochloromethane IS#1	11.04	128	513758	250.00	ng	-0.12 127.79%
26) 1,4-Difluorobenzene IS#2	12.97	114	2135053	250.00	ng	-0.13 131.07%
36) Chlorobenzene-d5 IS#3	20.20	117	1447407	250.00	ng	-0.18 117.32%

System Monitoring Compounds						
23) 1,2-Dichloroethane d4 SURR	12.38	65	29116	13.50	ng	0.07
Spiked Amount 250.000 Range 61 - 140 Recovery = 5.40%#						
32) Toluene-d8 SURR#2	16.48	98	1555851	236.41	ng	-0.16
Spiked Amount 250.000 Range 90 - 109 Recovery = 94.56%						
46) 4-Bromofluorobenzene SURR#	23.32	95	1122647	233.28	ng	-0.19
Spiked Amount 250.000 Range 87 - 112 Recovery = 93.31%						

Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.64	85	341345	198.33	ng	100
3) Dichlorotetrafluoroethane	3.82	135	413691	208.29	ng	# 49
4) Chloromethane	4.10	50	382183	333.51	ng	# 95
5) Vinyl chloride	4.31	62	374002	299.64	ng	97
6) Bromomethane	5.13	94	300126	154.51	ng	# 95
7) Chloroethane	5.24	64	250820	265.36	ng	95
8) Trichlorofluoromethane	5.72	101	1407395	300.09	ng	100
9) 1,1,2-Trichlorotrifluoroet	6.51	151	1172168	291.36	ng	81
10) 1,1-Dichloroethene	6.87	96	601591	306.27	ng	87
12) Methylene chloride	7.77	49	708232	280.64	ng	94
13) Carbon disulfide	7.86	76	1631270	299.97	ng	100
14) methyl-Tert-Butyl Ether	8.06	73	1113348	291.52	ng	98
15) trans-1,2-Dichloroethene	8.34	96	688623	300.23	ng	92
16) n-Hexane	8.45	57	641702	312.35	ng	# 1
17) 1,1-Dichloroethane	9.16	63	1109055	294.06	ng	99
18) cis-1,2-Dichloroethene	10.38	61	890816	295.49	ng	91
19) Chloroform	10.70	83	1342692	290.55	ng	98
20) Isooctane	11.65	57	2126597	302.06	ng	94
21) 1,1,1-Trichloroethane	11.54	97	1216948	286.01	ng	89
22) Carbon tetrachloride	12.10	117	1231579	270.23	ng	99
24) 1,2-Dichloroethane	12.38	62	644859	278.04	ng	# 97
25) 1,2-Dibromoethane	19.26	107	1151963	272.93	ng	98
27) Benzene	12.44	78	1576639	283.83	ng	97

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0250.D
Acq On : 5 Aug 2002 14:33
Sample : 250ng/10uL/50ppb INITIAL CALIB.
Misc : Pi/Pf=1 MA135ABK
MS Integration Params: rteint.p
Quant Time: Aug 5 15:05 2002

Vial: 3
Operator: BDH
Inst : MARILYN
Multiplr: 1.00

Quant Results File: TO14S.RES

Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Jul 22 10:42:36 2002
Response via : Initial Calibration
DataAcq Meth : TO14S

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
28) Trichloroethene	13.76	130	902272	264.90 ng		93
29) 1,2-Dichloropropane	14.13	63	668662	279.79 ng		94
30) Bromodichloromethane	14.66	83	1525599	270.00 ng		99
31) cis-1,3-Dichloropropene	15.86	75	1010217	271.88 ng		94
33) Toluene	16.66	92	1002777	252.16 ng	#	98
34) trans-1,3-Dichloropropene	17.02	75	842619	268.49 ng		98
35) 1,1,2-Trichloroethane	17.42	97	661739	265.55 ng		96
37) Tetrachloroethene	18.26	164	838662	270.12 ng		91
38) Dibromochloromethane	18.74	127	1127298	287.32 ng	#	96
39) Chlorobenzene	20.30	112	1371068	266.17 ng		92
40) Ethylbenzene	20.41	106	529523	260.44 ng		99
41) m,p-Xylene	20.61	106	1313633	492.92 ng		94
42) o-Xylene	21.74	106	623134	242.48 ng		98
43) Styrene	21.82	104	1051850	237.66 ng		94
44) Bromoform	22.73	173	1218411	282.41 ng		100
45) 1,1,2,2-Tetrachloroethane	23.08	83	1047650	307.25 ng		99
47) 1,4-Dichloro-2-butene	22.72	75	240027	332.54 ng		90
48) 4-Ethyltoluene	24.01	105	1532808	235.48 ng		94
49) 1,3,5-Trimethylbenzene	24.12	105	1276149	246.62 ng		92
50) 2-Chlorotoluene	24.21	91	1523283	230.94 ng		95
51) 1,2,4-Trimethylbenzene	25.09	105	1193077	222.40 ng		98
52) 1,3-Dichlorobenzene	26.24	146	1027733	223.44 ng	#	93
53) 1,4-Dichlorobenzene	26.24	146	1034312	214.89 ng	#	93
54) 1,2-Dichlorobenzene	27.02	146	981458	228.49 ng	#	92
55) 1,2,4-Trichlorobenzene	30.14	180	643383	187.53 ng		99
56) Napthalene	30.67	128	916400	231.31 ng	#	90
57) Hexachlorobutadiene	30.37	225	507487	156.15 ng		99

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0500.D
Acq On : 5 Aug 2002 16:23
Sample : 500ng/20uL/100ppb INITIAL CALIB.
Misc : Pi/Pf=1 MA135ABK
MS Integration Params: rteint.p
Quant Time: Aug 6 9:15 2002

Vial: 6
Operator: BDH
Inst : MARILYN
Multiplr: 1.00

Quant Results File: TO14S.RES

Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Aug 05 16:28:28 2002
Response via : Initial Calibration
DataAcq Meth : TO14S
IS QA File : D:\HPCHEM\1\DATA02\M0805A\CMA0250.D (5 Aug 2002 14:33)

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) Bromochloromethane IS#1	11.07	128	519713	250.00	ng	0.03 101.16%
26) 1,4-Difluorobenzene IS#2	12.98	114	2196175	250.00	ng	0.00 102.86%
36) Chlorobenzene-d5 IS#3	20.21	117	1515823	250.00	ng	0.00 104.73%

System Monitoring Compounds						
23) 1,2-Dichloroethane d4 SURR	12.19	65	578543	258.33	ng	0.00
Spiked Amount 250.000 Range 61 - 140 Recovery = 103.33%						
32) Toluene-d8 SURR#2	16.49	98	1615445	243.73	ng	0.00
Spiked Amount 250.000 Range 90 - 109 Recovery = 97.49%						
46) 4-Bromofluorobenzene SURR#	23.33	95	1186368	243.23	ng	0.00
Spiked Amount 250.000 Range 87 - 112 Recovery = 97.29%						

Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.65	85	873069m	404.31	ng	94
3) Dichlorotetrafluoroethane	3.83	135	1373617m	742.34	ng	52
4) Chloromethane	4.11	50	785469	602.18	ng	93
5) Vinyl chloride	4.33	62	735695	577.54	ng	99
6) Bromomethane	5.14	94	683913	435.57	ng #	98
7) Chloroethane	5.26	64	493770	554.60	ng	98
8) Trichlorofluoromethane	5.73	101	2874815	582.18	ng	100
9) 1,1,2-Trichlorotrifluoroet	6.53	151	2414509	579.26	ng	80
10) 1,1-Dichloroethene	6.88	96	1237420	587.98	ng	87
12) Methylene chloride	7.78	49	1442026	545.78	ng	95
13) Carbon disulfide	7.89	76	3345365	578.03	ng	99
14) methyl-Tert-Butyl Ether	8.07	73	2340245	579.67	ng	99
15) trans-1,2-Dichloroethene	8.37	96	1412989	578.82	ng	92
16) n-Hexane	8.46	57	1321686	565.34	ng #	1
17) 1,1-Dichloroethane	9.17	63	2261142	574.34	ng	99
18) cis-1,2-Dichloroethene	10.40	61	1812191	573.53	ng	90
19) Chloroform	10.71	83	2701105	565.11	ng	98
20) Isooctane	11.66	57	4398515	565.28	ng	95
21) 1,1,1-Trichloroethane	11.57	97	2481586	568.81	ng	89
22) Carbon tetrachloride	12.11	117	2527602	557.89	ng	99
24) 1,2-Dichloroethane	12.39	62	1317499	547.52	ng #	97
25) 1,2-Dibromoethane	19.27	107	2335297	538.78	ng	99
27) Benzene	12.47	78	3240451	551.21	ng	97

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0500.D
Acq On : 5 Aug 2002 16:23
Sample : 500ng/20uL/100ppb INITIAL CALIB.
Misc : Pi/Pf=1 MA135ABK
MS Integration Params: rteint.p
Quant Time: Aug 6 9:15 2002

Vial: 6
Operator: BDH
Inst : MARILYN
Multiplr: 1.00

Quant Results File: TO14S.RES

Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Aug 05 16:28:28 2002
Response via : Initial Calibration
DataAcq Meth : TO14S

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
28) Trichloroethene	13.77	130	1851838	533.85 ng		93
29) 1,2-Dichloropropane	14.14	63	1366939	544.75 ng		94
30) Bromodichloromethane	14.67	83	3103955	533.44 ng		99
31) cis-1,3-Dichloropropene	15.88	75	2067203	535.72 ng		94
33) Toluene	16.67	92	2088662	528.84 ng	#	98
34) trans-1,3-Dichloropropene	17.03	75	1761709	538.56 ng		98
35) 1,1,2-Trichloroethane	17.43	97	1349851	527.50 ng		96
37) Tetrachloroethene	18.27	164	1775649	554.06 ng		92
38) Dibromochloromethane	18.75	127	2276755	537.89 ng	#	96
39) Chlorobenzene	20.31	112	2870342	546.83 ng		92
40) Ethylbenzene	20.41	106	1132883	552.37 ng		98
41) m,p-Xylene	20.60	106	2748950	1055.13 ng		96
42) o-Xylene	21.75	106	1314164	529.93 ng		97
43) Styrene	21.81	104	2236856	525.57 ng		94
44) Bromoform	22.74	173	2428299	526.88 ng		99
45) 1,1,2,2-Tetrachloroethane	23.08	83	2065443	542.87 ng		100
47) 1,4-Dichloro-2-butene	22.73	75	496033	574.65 ng		89
48) 4-Ethyltoluene	24.02	105	3440375	550.30 ng	#	88
49) 1,3,5-Trimethylbenzene	24.13	105	2570364	537.36 ng		89
50) 2-Chlorotoluene	24.22	91	3264242	522.41 ng		96
51) 1,2,4-Trimethylbenzene	25.10	105	2575088	524.51 ng		98
52) 1,3-Dichlorobenzene	26.03	146	2151983	510.40 ng	#	93
53) 1,4-Dichlorobenzene	26.25	146	2237107	509.53 ng	#	93
54) 1,2-Dichlorobenzene	27.01	146	1971106	501.72 ng	#	94
55) 1,2,4-Trichlorobenzene	30.15	180	1380225	505.57 ng		99
56) Napthalene	30.68	128	1822625	531.63 ng	#	92
57) Hexachlorobutadiene	30.38	225	1087414	468.52 ng		99

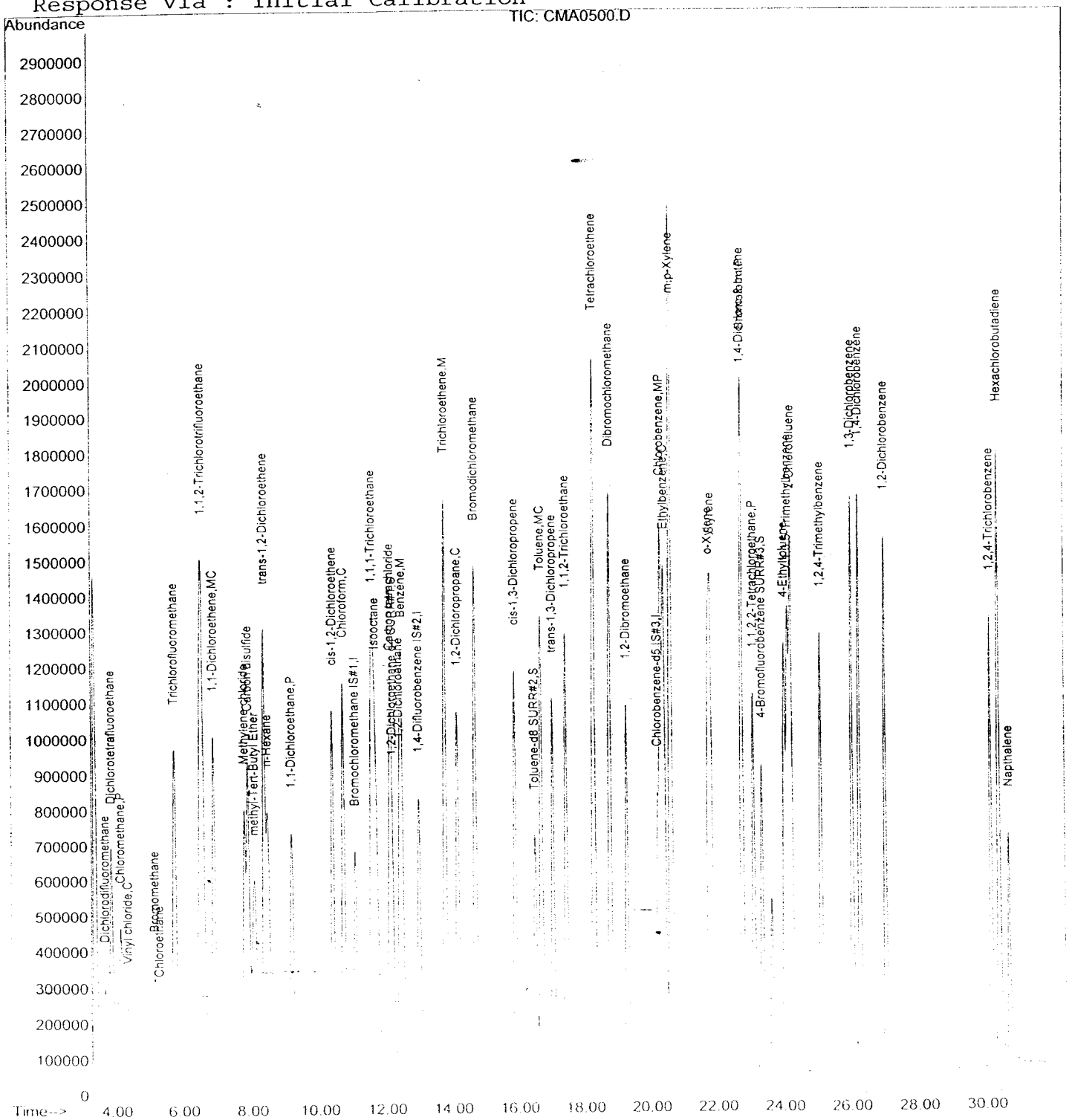
(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0500.D
Acq On : 5 Aug 2002 16:23
Sample : 500ng/20uL/100ppb INITIAL CALIB.
Misc : Pi/Pf=1 MA135ABK
MS Integration Params: rteint.p
Quant Time: Aug 6 9:15 2002

Vial: 6
Operator: BDH
Inst : MARILYN
Multiplr: 1.00

Quant Results File: TO14S.RES

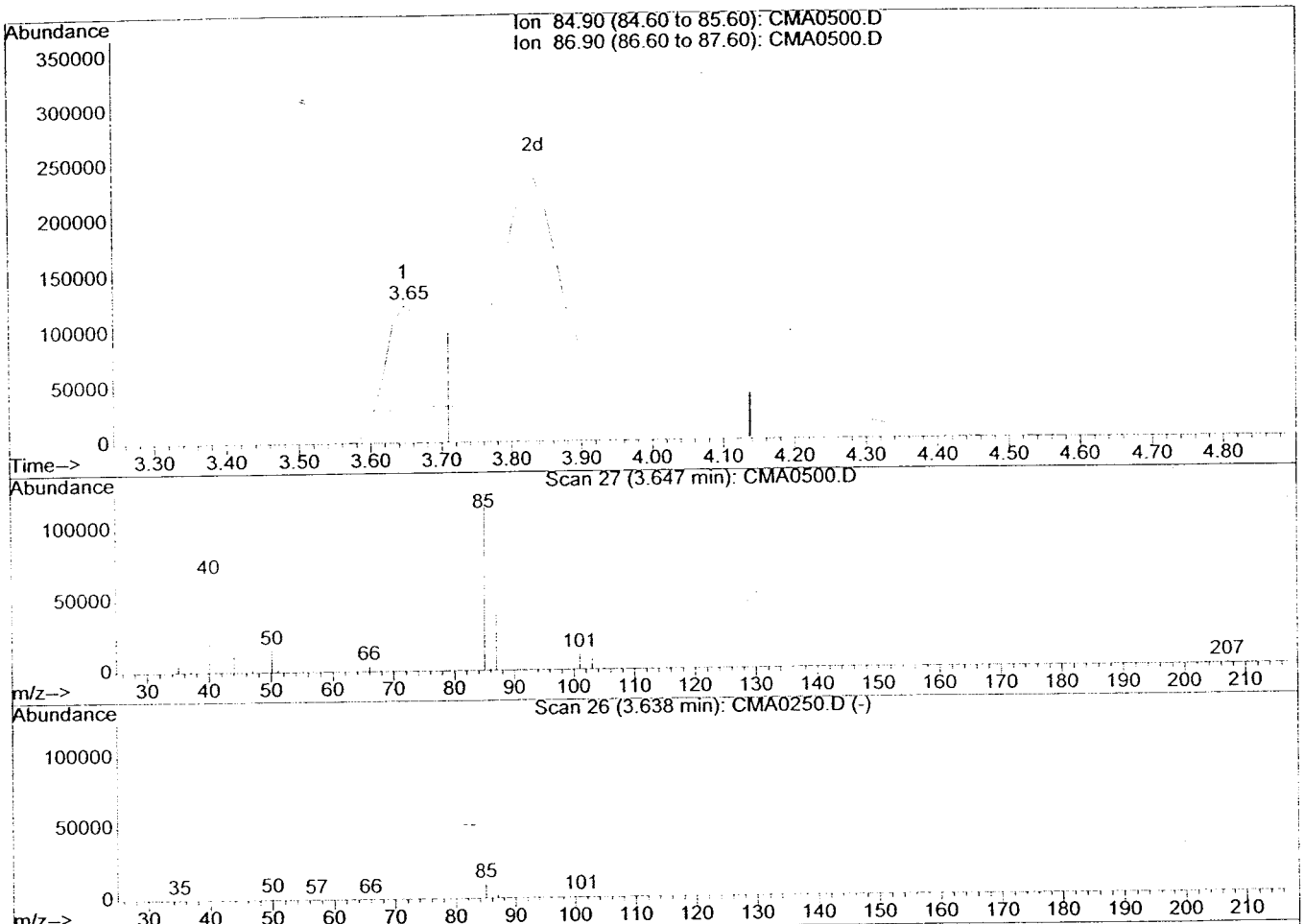
Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Tue Aug 06 09:02:44 2002
Response via : Initial Calibration



Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0500.D
Acq On : 5 Aug 2002 16:23
Sample : 500ng/20uL/100ppb INITIAL CALIB.
Misc : Pi/Pf=1 MA135ABK
MS Integration Params: rteint.p
Quant Time: Aug 5 16:55 2002

Vial: 6
Operator: BDH
Inst : MARILYN
Multiplr: 1.00
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Tue Aug 06 08:35:03 2002
Response via : Multiple Level Calibration



(2) Dichlorodifluoromethane

3.65min 316.70ng

response 683875

Ion	Exp%	Act%
84.90	100	100
86.90	33.50	36.94
0.00	0.00	0.00
0.00	0.00	0.00

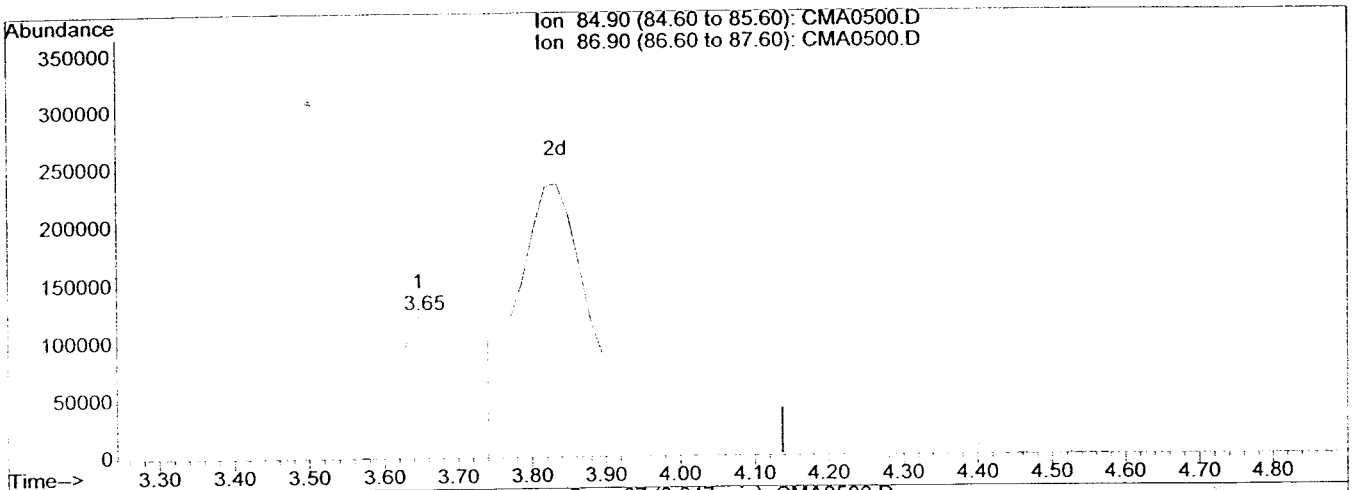
before (tailing)

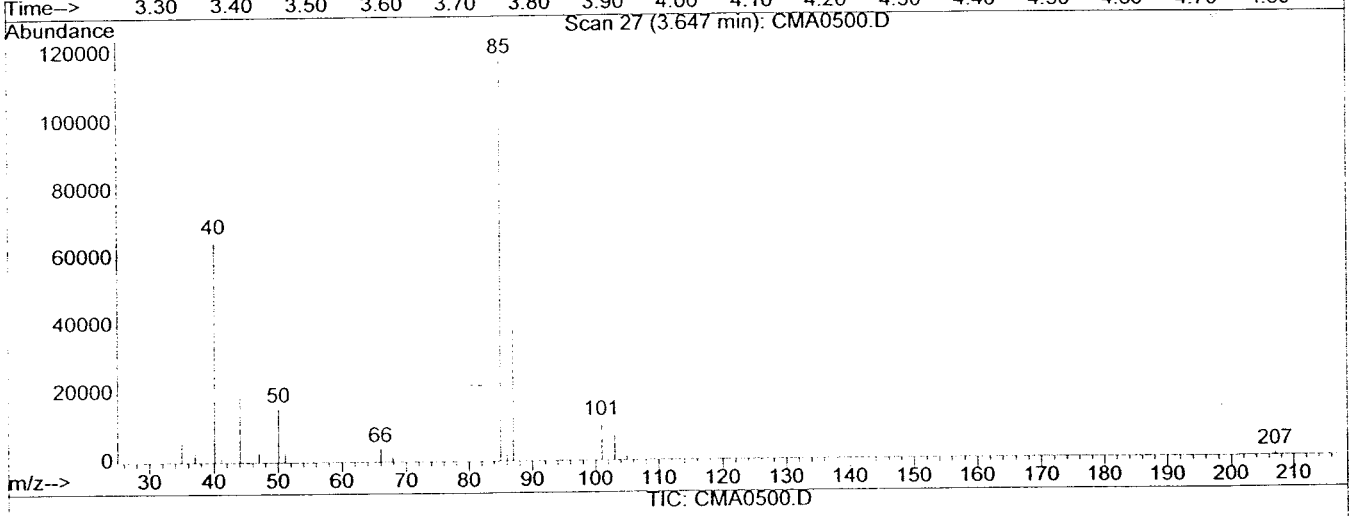
CMA0500.D TO14S.M Tue Aug 06 08:52:26 2002

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0500.D
Acq On : 5 Aug 2002 16:23
Sample : 500ng/20uL/100ppb INITIAL CALIB.
Misc : Pi/Pf=1 MA135ABK
MS Integration Params: rteint.p
Quant Time: Aug 6 9:15 2002

Vial: 6
Operator: BDH
Inst : MARILYN
Multiplr: 1.00
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Tue Aug 06 09:02:44 2002
Response via : Multiple Level Calibration





(2) Dichlorodifluoromethane

3.65min 404.31ng m

response 873069

Ion	Exp%	Act%
84.90	100	100
86.90	33.50	28.93
0.00	0.00	0.00
0.00	0.00	0.00

TM 8-6-02

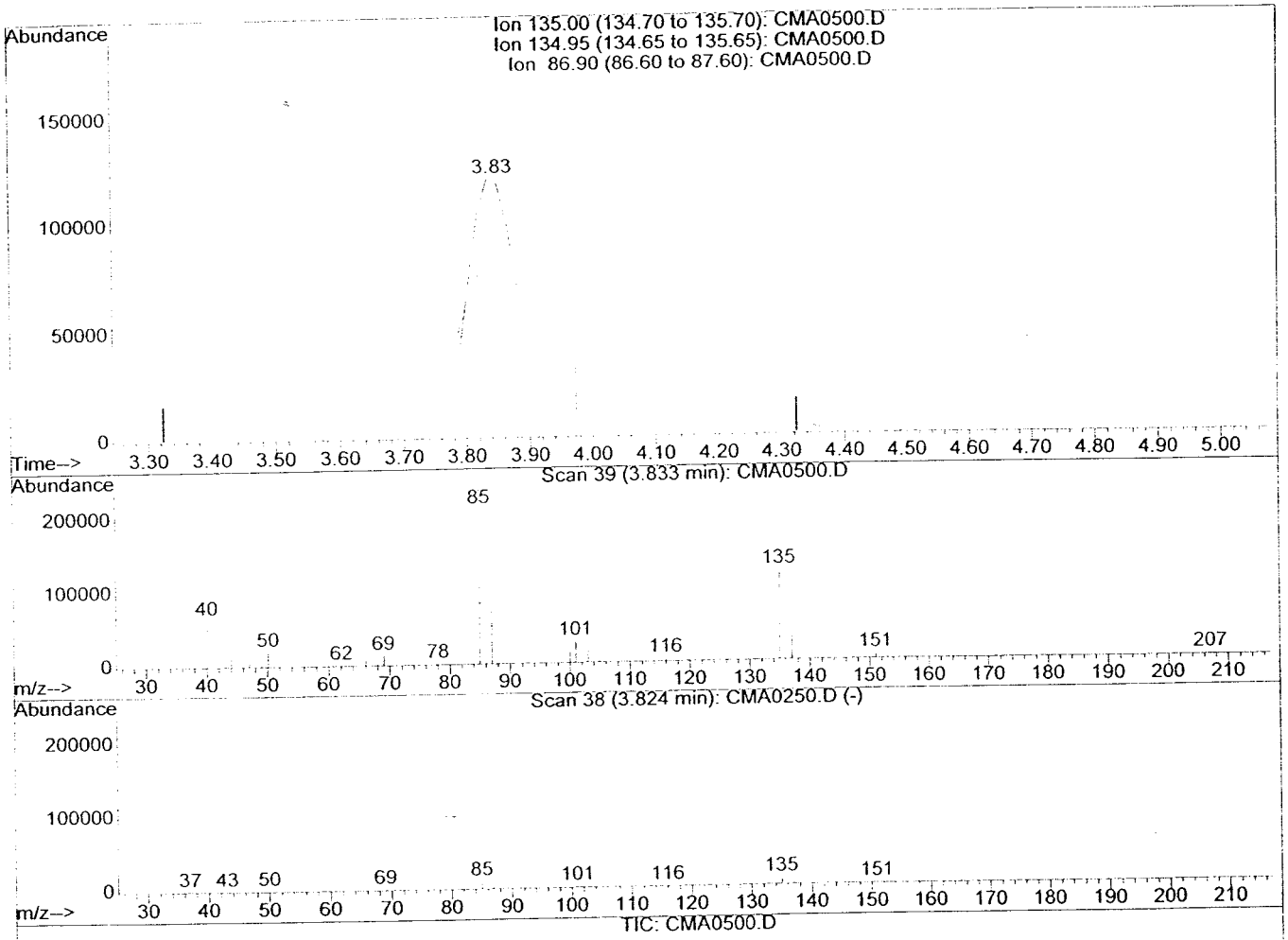
CMA0500.D TO14S.M Tue Aug 06 09:15:37 2002

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0500.D
Acq On : 5 Aug 2002 16:23
Sample : 500ng/20uL/100ppb INITIAL CALIB.
Misc : Pi/Pf=1 MA135ABK
MS Integration Params: rteint.p
Quant Time: Aug 6 8:52 2002

Vial: 6
Operator: BDH
Inst : MARILYN
Multiplr: 1.00

Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Tue Aug 06 08:35:03 2002
Response via : Multiple Level Calibration



(3) Dichlorotetrafluoroethane

3.83min 437.02ng

response 808656

Ion	Exp%	Act%
135.00	100	100
134.95	56.30	100.00#
86.90	32.70	48.14#
0.00	0.00	0.00

before (failing)

CMA0500.D TO14S.M Tue Aug 06 08:53:05 2002

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0500.D
Acq On : 5 Aug 2002 16:23
Sample : 500ng/20uL/100ppb INITIAL CALIB.
Misc : Pi/Pf=1 MA135ABK
MS Integration Params: rteint.p
Quant Time: Aug 5 16:55 2002

Vial: 6
Operator: BDH
Inst : MARILYN
Multiplr: 1.00

Quant Results File: TO14S.RES

Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Aug 05 16:28:28 2002
Response via : Initial Calibration
DataAcq Meth : TO14S
IS QA File : D:\HPCHEM\1\DATA02\M0805A\CMA0250.D (5 Aug 2002 14:33)

original BH 8/5/02

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) Bromochloromethane IS#1	11.07	128	519713	250.00	ng	0.03 101.16%
26) 1,4-Difluorobenzene IS#2	12.98	114	2196175	250.00	ng	0.00 102.86%
36) Chlorobenzene-d5 IS#3	20.21	117	1515823	250.00	ng	0.00 104.73%

System Monitoring Compounds						
23) 1,2-Dichloroethane d4 SURR	12.19	65	578543	258.33	ng	0.00
Spiked Amount 250.000 Range 61 - 140 Recovery = 103.33%						
32) Toluene-d8 SURR#2	16.49	98	1615445	243.73	ng	0.00
Spiked Amount 250.000 Range 90 - 109 Recovery = 97.49%						
46) 4-Bromofluorobenzene SURR#	23.33	95	1186368	243.23	ng	0.00
Spiked Amount 250.000 Range 87 - 112 Recovery = 97.29%						

Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.65	85	683875	316.70	ng	94
3) Dichlorotetrafluoroethane	3.83	135	808656	437.02	ng #	52
4) Chloromethane	4.11	50	785469	602.18	ng	93
5) Vinyl chloride	4.33	62	735695	577.54	ng	99
6) Bromomethane	5.14	94	683913	435.57	ng #	98
7) Chloroethane	5.26	64	493770	554.60	ng	98
8) Trichlorofluoromethane	5.73	101	2874815	582.18	ng	100
9) 1,1,2-Trichlorotrifluoroet	6.53	151	2414509	579.26	ng	80
10) 1,1-Dichloroethene	6.88	96	1237420	587.98	ng	87
12) Methylene chloride	7.78	49	1442026	545.78	ng	95
13) Carbon disulfide	7.89	76	3345365	578.03	ng	99
14) methyl-Tert-Butyl Ether	8.07	73	2340245	579.67	ng	99
15) trans-1,2-Dichloroethene	8.37	96	1412989	578.82	ng	92
16) n-Hexane	8.46	57	1321686	565.34	ng #	1
17) 1,1-Dichloroethane	9.17	63	2261142	574.34	ng	99
18) cis-1,2-Dichloroethene	10.40	61	1812191	573.53	ng	90
19) Chloroform	10.71	83	2701105	565.11	ng	98
20) Isooctane	11.66	57	4398515	565.28	ng	95
21) 1,1,1-Trichloroethane	11.57	97	2481586	568.81	ng	89
22) Carbon tetrachloride	12.11	117	2527602	557.89	ng	99
24) 1,2 Dichloroethane	12.39	62	1317499	547.52	ng #	97
25) 1,2 Dibromoethane	19.27	107	2335297	538.78	ng	99
27) Benzene	12.47	78	3240451	551.21	ng	97

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0500.D
Acq On : 5 Aug 2002 16:23
Sample : 500ng/20uL/100ppb INITIAL CALIB.
Misc : Pi/Pf=1 MA135ABK
MS Integration Params: rteint.p
Quant Time: Aug 5 16:55 2002

Vial: 6
Operator: BDH
Inst : MARILYN
Multiplr: 1.00

Quant Results File: TO14S.RES

Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Aug 05 16:28:28 2002
Response via : Initial Calibration
DataAcq Meth : TO14S

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
28) Trichloroethene	13.77	130	1851838	533.85 ng		93
29) 1,2-Dichloropropane	14.14	63	1366939	544.75 ng		94
30) Bromodichloromethane	14.67	83	3103955	533.44 ng		99
31) cis-1,3-Dichloropropene	15.88	75	2067203	535.72 ng		94
33) Toluene	16.67	92	2088662	528.84 ng	#	98
34) trans-1,3-Dichloropropene	17.03	75	1761709	538.56 ng		98
35) 1,1,2-Trichloroethane	17.43	97	1349851	527.50 ng		96
37) Tetrachloroethene	18.27	164	1775649	554.06 ng		92
38) Dibromochloromethane	18.75	127	2276755	537.89 ng	#	96
39) Chlorobenzene	20.31	112	2870342	546.83 ng		92
40) Ethylbenzene	20.41	106	1132883	552.37 ng		98
41) m,p-Xylene	20.60	106	2748950	1055.13 ng		96
42) o-Xylene	21.75	106	1314164	529.93 ng		97
43) Styrene	21.81	104	2236856	525.57 ng		94
44) Bromoform	22.74	173	2428299	526.88 ng		99
45) 1,1,2,2-Tetrachloroethane	23.08	83	2065443	542.87 ng		100
47) 1,4-Dichloro-2-butene	22.73	75	496033	574.65 ng		89
48) 4-Ethyltoluene	24.02	105	3440375	550.30 ng	#	88
49) 1,3,5-Trimethylbenzene	24.13	105	2570364	537.36 ng		89
50) 2-Chlorotoluene	24.22	91	3264242	522.41 ng		96
51) 1,2,4-Trimethylbenzene	25.10	105	2575088	524.51 ng		98
52) 1,3-Dichlorobenzene	26.03	146	2151983	510.40 ng	#	93
53) 1,4-Dichlorobenzene	26.25	146	2237107	509.53 ng	#	93
54) 1,2-Dichlorobenzene	27.01	146	1971106	501.72 ng	#	94
55) 1,2,4-Trichlorobenzene	30.15	180	1380225	505.57 ng		99
56) Napthalene	30.68	128	1822625	531.63 ng	#	92
57) Hexachlorobutadiene	30.38	225	1087414	468.52 ng		99

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA1000.D
Acq On : 5 Aug 2002 17:00
Sample : 1000ng/40uL/200ppb INITIAL CALIB.
Misc : Pi/Pf=1 MA135ABK
MS Integration Params: rteint.p
Quant Time: Aug 6 9:16 2002

Vial: 7
Operator: BDH
Inst : MARILYN
Multiplr: 1.00

Quant Results File: TO14S.RES

Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Aug 05 17:17:06 2002
Response via : Initial Calibration
DataAcq Meth : TO14S
IS QA File : D:\HPCHEM\1\DATA02\M0805A\CMA0250.D (5 Aug 2002 14:33)

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) Bromochloromethane IS#1	11.06	128	491790	250.00	ng	0.02 95.72%
26) 1,4-Difluorobenzene IS#2	12.97	114	2150910	250.00	ng	0.00 100.74%
36) Chlorobenzene-d5 IS#3	20.20	117	1472598	250.00	ng	0.00 101.74%

System Monitoring Compounds

23) 1,2-Dichloroethane d4 SURR	12.18	65	568485	266.35	ng	0.00
Spiked Amount 250.000 Range 61 - 140 Recovery = 106.54%						
32) Toluene-d8 SURR#2	16.48	98	1592827	247.51	ng	0.00
Spiked Amount 250.000 Range 90 - 109 Recovery = 99.00%						
46) 4-Bromofluorobenzene SURR#	23.32	95	1122363	239.73	ng	0.00
Spiked Amount 250.000 Range 87 - 112 Recovery = 95.89%						

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.65	85	1529847m	777.86	ng	# 100
3) Dichlorotetrafluoroethane	3.82	135	2451209m	1475.72	ng	# 42
4) Chloromethane	4.10	50	1650052	1290.77	ng	90
5) Vinyl chloride	4.38	62	1372772	1113.24	ng	100
6) Bromomethane	5.13	94	1334309	969.53	ng	# 99
7) Chloroethane	5.25	64	898900	1080.29	ng	97
8) Trichlorofluoromethane	5.72	101	5201310	1090.30	ng	100
9) 1,1,2-Trichlorotrifluoroet	6.51	151	4687595	1167.25	ng	80
10) 1,1-Dichloroethene	6.87	96	2359257	1154.82	ng	89
12) Methylene chloride	7.77	49	2767336	1097.95	ng	96
13) Carbon disulfide	7.88	76	6337905	1131.69	ng	100
14) methyl-Tert-Butyl Ether	8.06	73	4664588	1187.78	ng	99
15) trans-1,2-Dichloroethene	8.34	96	2729249	1153.90	ng	92
16) n-Hexane	8.45	57	2599018	1142.22	ng	# 1
17) 1,1-Dichloroethane	9.17	63	4433504	1166.00	ng	99
18) cis-1,2-Dichloroethene	10.38	61	3591268	1177.28	ng	92
19) Chloroform	10.70	83	5288744	1150.69	ng	98
20) Isooctane	11.65	57	8647232	1167.04	ng	94
21) 1,1,1-Trichloroethane	11.54	97	4850674	1156.75	ng	89
22) Carbon tetrachloride	12.10	117	4930490	1144.12	ng	99
24) 1,2-Dichloroethane	12.38	62	2649465	1151.64	ng	# 97
25) 1,2-Dibromoethane	19.26	107	4571494	1106.48	ng	100
27) Benzene	12.46	78	6267988	1075.70	ng	98

(#) = qualifier out of range (m) = manual integration
CMA1000.D TO14S.M Tue Aug 06 09:17:11 2002

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA1000.D
Acq On : 5 Aug 2002 17:00
Sample : 1000ng/40uL/200ppb INITIAL CALIB.
Misc : Pi/Pf=1 MA135ABK
MS Integration Params: rteint.p
Quant Time: Aug 6 9:16 2002

Vial: 7
Operator: BDH
Inst : MARILYN
Multiplr: 1.00

Quant Results File: TO14S.RES

Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Aug 05 17:17:06 2002
Response via : Initial Calibration
DataAcq Meth : TO14S

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
28)	Trichloroethene	13.76	130	3620312	1067.38 ng		93
29)	1,2-Dichloropropane	14.13	63	2700131	1090.62 ng		94
30)	Bromodichloromethane	14.66	83	6101132	1069.45 ng		99
31)	cis-1,3-Dichloropropene	15.87	75	4124266	1088.14 ng		94
33)	Toluene	16.68	92	4049136	1055.30 ng		98
34)	trans-1,3-Dichloropropene	17.04	75	3482794	1083.20 ng		97
35)	1,1,2-Trichloroethane	17.44	97	2659986	1059.68 ng		96
37)	Tetrachloroethene	18.26	164	3418390	1091.11 ng		92
38)	Dibromochloromethane	18.74	127	4467087	1075.81 ng	#	96
39)	Chlorobenzene	20.31	112	5500033	1077.18 ng		92
40)	Ethylbenzene	20.41	106	2169284	1086.42 ng		97
41)	m,p-Xylene	20.61	106	5357491	2147.85 ng		95
42)	o-Xylene	21.74	106	2557684	1079.37 ng		95
43)	Styrene	21.82	104	4347537	1073.27 ng		94
44)	Bromoform	22.73	173	4547630	1014.30 ng		100
45)	1,1,2,2-Tetrachloroethane	23.08	83	3764344	1001.70 ng		100
47)	1,4-Dichloro-2-butene	22.73	75	930592	1076.63 ng		89
48)	4-Ethyltoluene	24.01	105	6255696	1049.28 ng		94
49)	1,3,5-Trimethylbenzene	24.12	105	4713467	1024.26 ng	#	81
50)	2-Chlorotoluene	24.23	91	6412753	1080.33 ng		97
51)	1,2,4-Trimethylbenzene	25.09	105	5011320	1086.29 ng		98
52)	1,3-Dichlorobenzene	26.04	146	4149999	1055.54 ng	#	93
53)	1,4-Dichlorobenzene	26.26	146	4294318	1050.66 ng	#	93
54)	1,2-Dichlorobenzene	27.02	146	3807675	1044.81 ng	#	93
55)	1,2,4-Trichlorobenzene	30.14	180	2617197m	1099.47 ng		98
56)	Napthalene	30.68	128	3829648	1198.41 ng	#	92
57)	Hexachlorobutadiene	30.39	225	2137949	1213.19 ng		99

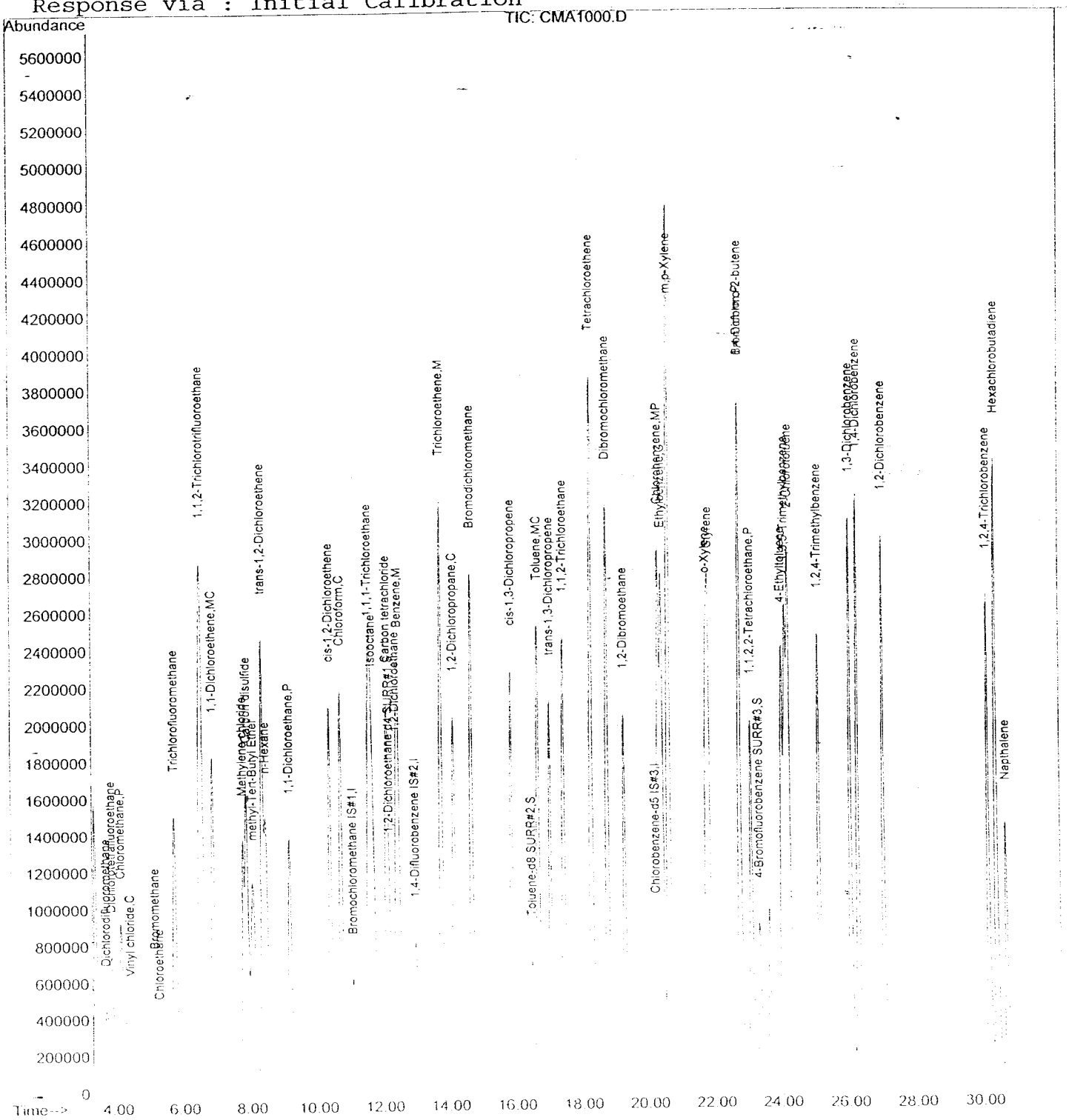
(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA1000.D
Acq On : 5 Aug 2002 17:00
Sample : 1000ng/40uL/200ppb INITIAL CALIB.
Misc : Pi/Pf=1 MA135ABK
MS Integration Params: rteint.p
Quant Time: Aug 6 9:16 2002

Vial: 7
Operator: BDH
Inst : MARILYN
Multiplr: 1.00

Quant Results File: TO14S.RES

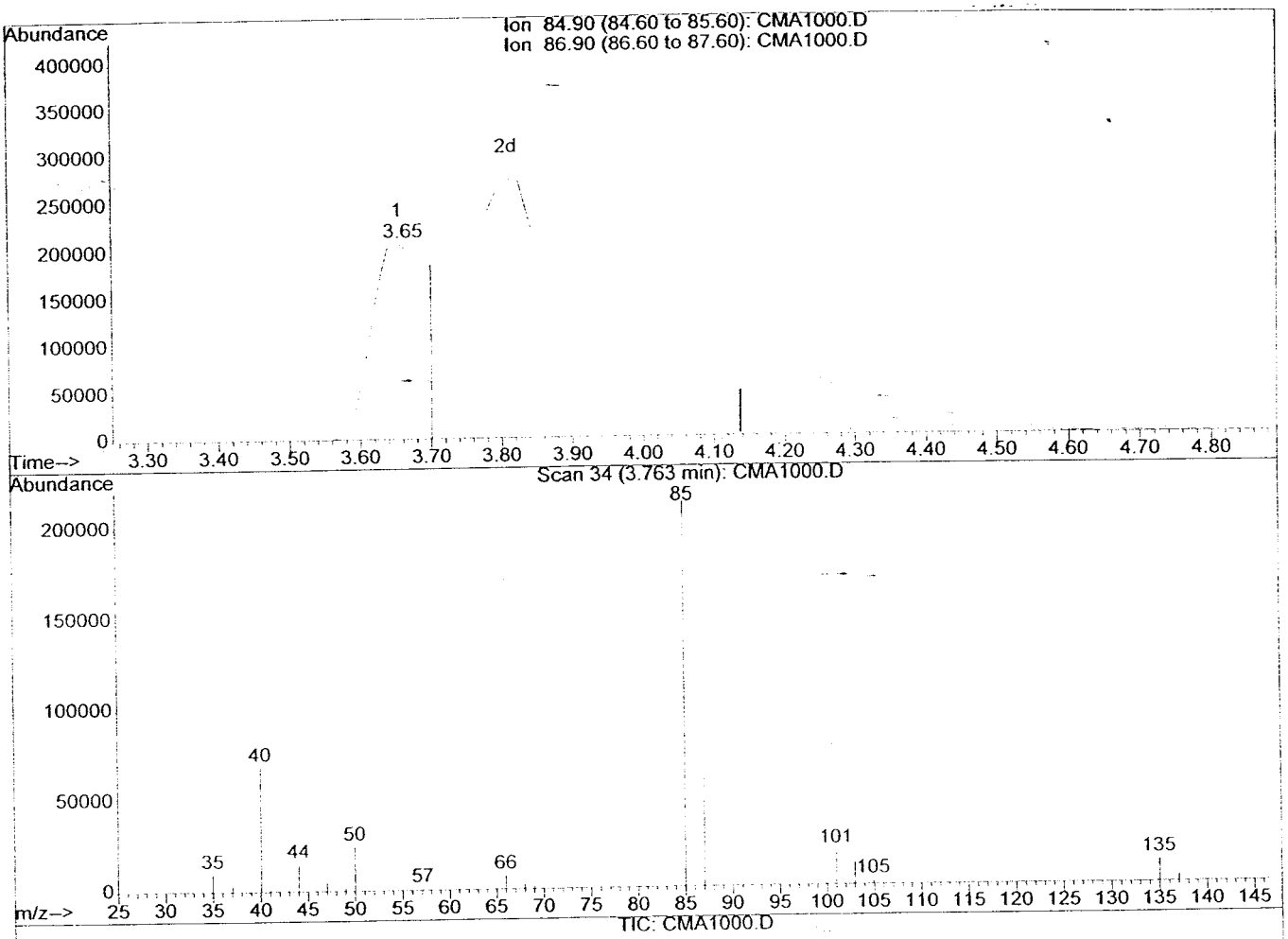
Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Tue Aug 06 09:02:44 2002
Response via : Initial Calibration



Data File : D:\HPCHEM\1\DATA02\M0805A\CMA1000.D
Acq On : 5 Aug 2002 17:00
Sample : 1000ng/40uL/200ppb INITIAL CALIB.
Misc : Pi/Pf=1 MA135ABK
MS Integration Params: rteint.p
Quant Time: Aug 5 17:32 2002

Vial: 7
Operator: BDH
Inst : MARILYN
Multiplr: 1.00
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Aug 05 17:17:06 2002
Response via : Multiple Level Calibration



(2) Dichlorodifluoromethane

3.65min 592.64ng

response 1165578

Ion	Exp%	Act%
84.90	100	100
86.90	33.50	33.31
0.00	0.00	0.00
0.00	0.00	0.00

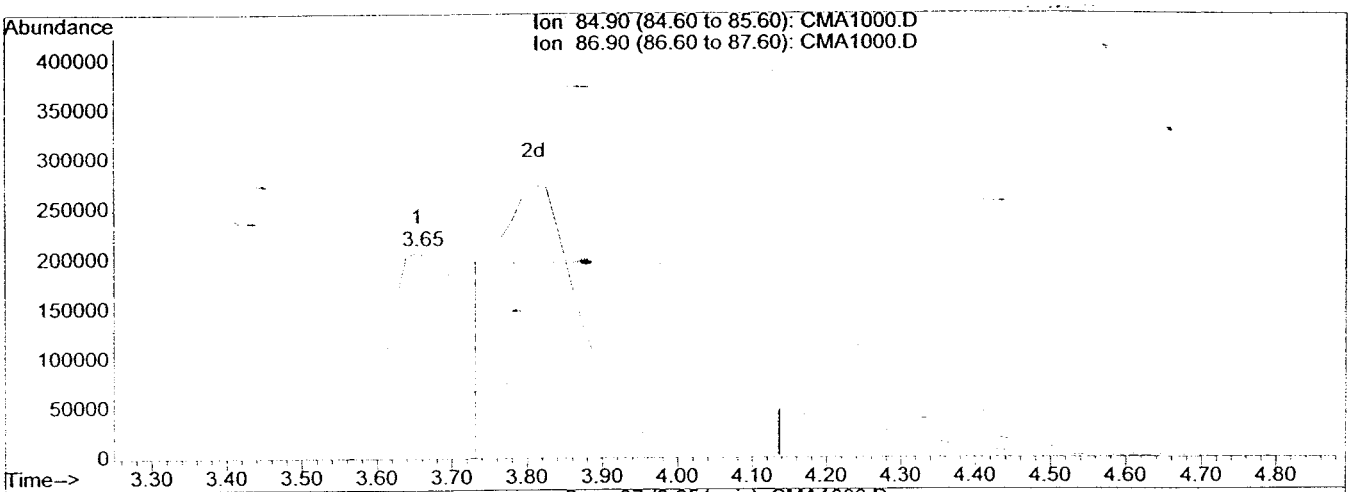
before (failing)

CMA1000.D TO14S.M Tue Aug 06 08:27:22 2002

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA1000.D
Acq On : 5 Aug 2002 17:00
Sample : 1000ng/40uL/200ppb INITIAL CALIB.
Misc : Pi/Pf=1 MA135ABK
MS Integration Params: rteint.p
Quant Time: Aug 6 9:16 2002

Vial: 7
Operator: BDH
Inst : MARILYN
Multiplr: 1.00
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Tue Aug 06 09:02:44 2002
Response via : Multiple Level Calibration



(2) Dichlorodifluoromethane

3.65min 777.86ng m

response 1529847

Ion	Exp%	Act%
84.90	100	100
86.90	33.50	25.38#
0.00	0.00	0.00
0.00	0.00	0.00

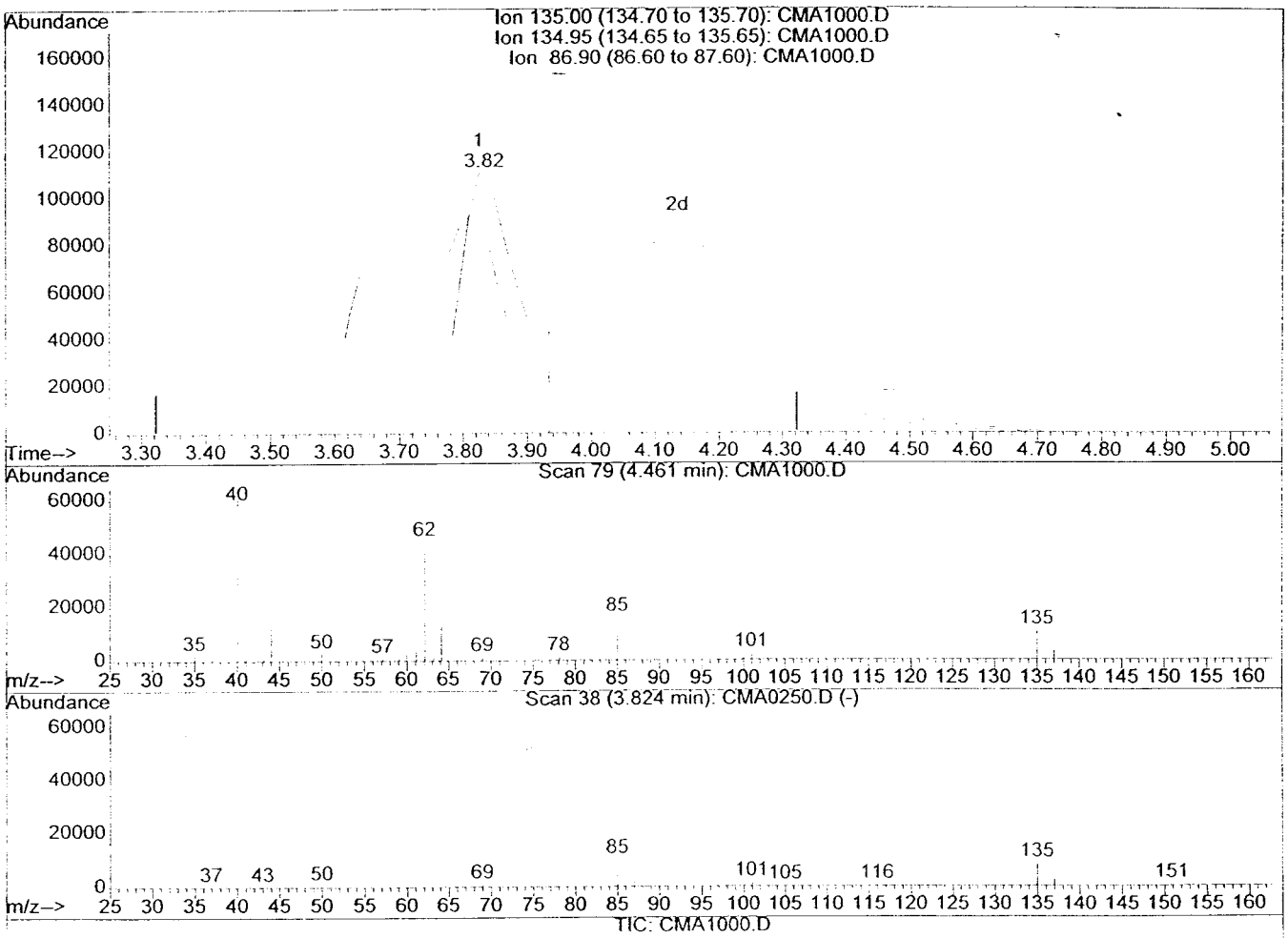
8-6-02

CMA1000.D TO14S.M Tue Aug 06 09:17:01 2002

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA1000.D
Acq On : 5 Aug 2002 17:00
Sample : 1000ng/40uL/200ppb INITIAL CALIB.
Misc : Pi/Pf=1 MA135ABK
MS Integration Params: rteint.p
Quant Time: Aug 6 8:27 2002

Vial: 7
Operator: BDH
Inst : MARILYN
Multiplr: 1.00
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Aug 05 17:17:06 2002
Response via : Multiple Level Calibration



(3) Dichlorotetrafluoroethane

3.82min 439.79ng

response 730494

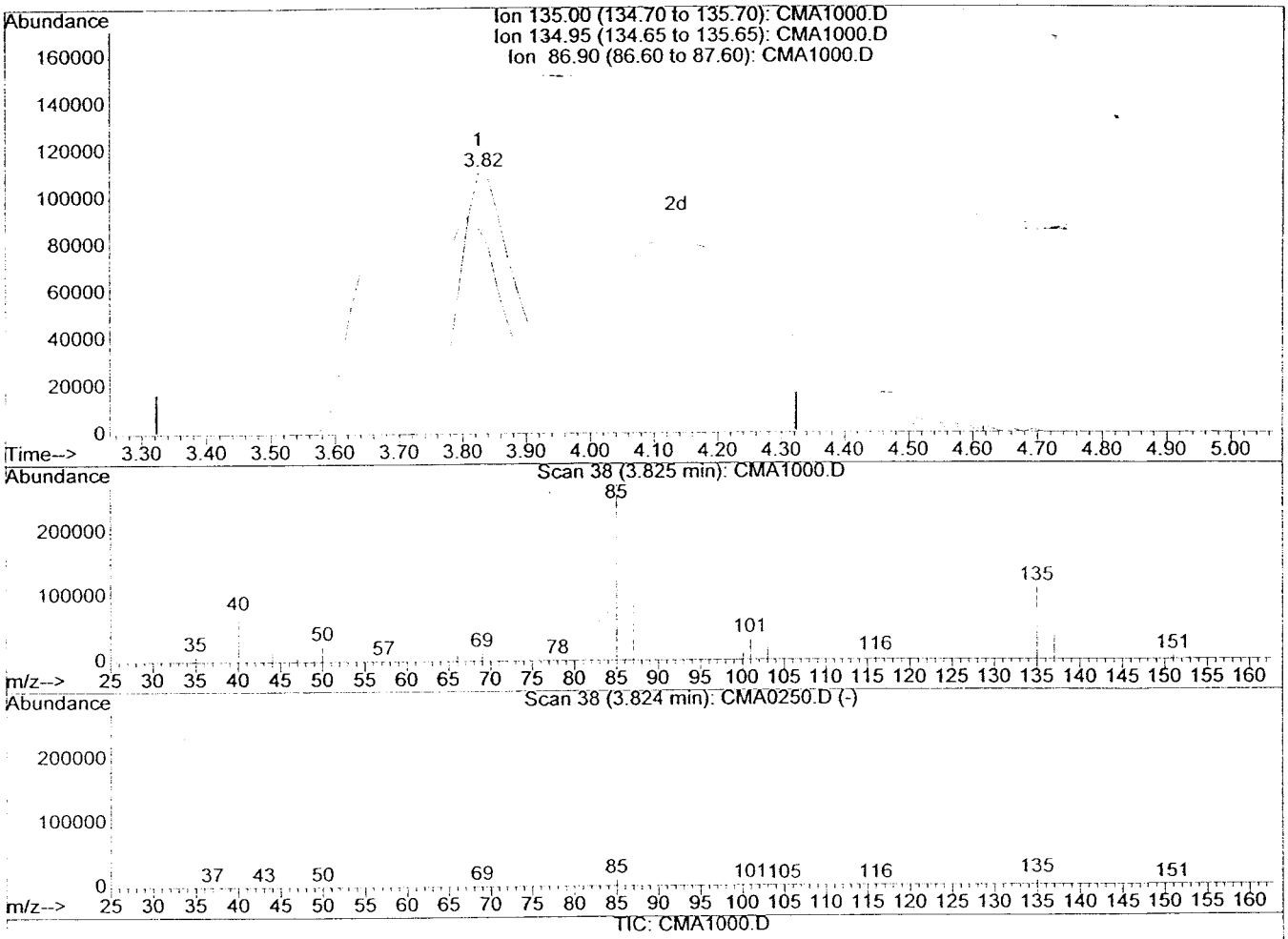
Ion	Exp%	Act%
135.00	100	100
134.95	56.30	100.00#
86.90	32.70	63.08#
0.00	0.00	0.00

Refore (fail Ing)

CMA1000.D TO14S.M Tue Aug 06 08:27:52 2002

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA1000.D Vial: 7
Acq On : 5 Aug 2002 17:00 Operator: BDH
Sample : 1000ng/40uL/200ppb INITIAL CALIB. Inst : MARILYN
Misc : Pi/Pf=1 MA135ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 6 8:27 2002 Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Aug 05 17:17:06 2002
Response via : Multiple Level Calibration



(3) Dichlorotetrafluoroethane

3.82min 1475.72ng m

response 2451209

Ion	Exp%	Act%
135.00	100	100
134.95	56.30	29.80#
86.90	32.70	18.80#
0.00	0.00	0.00

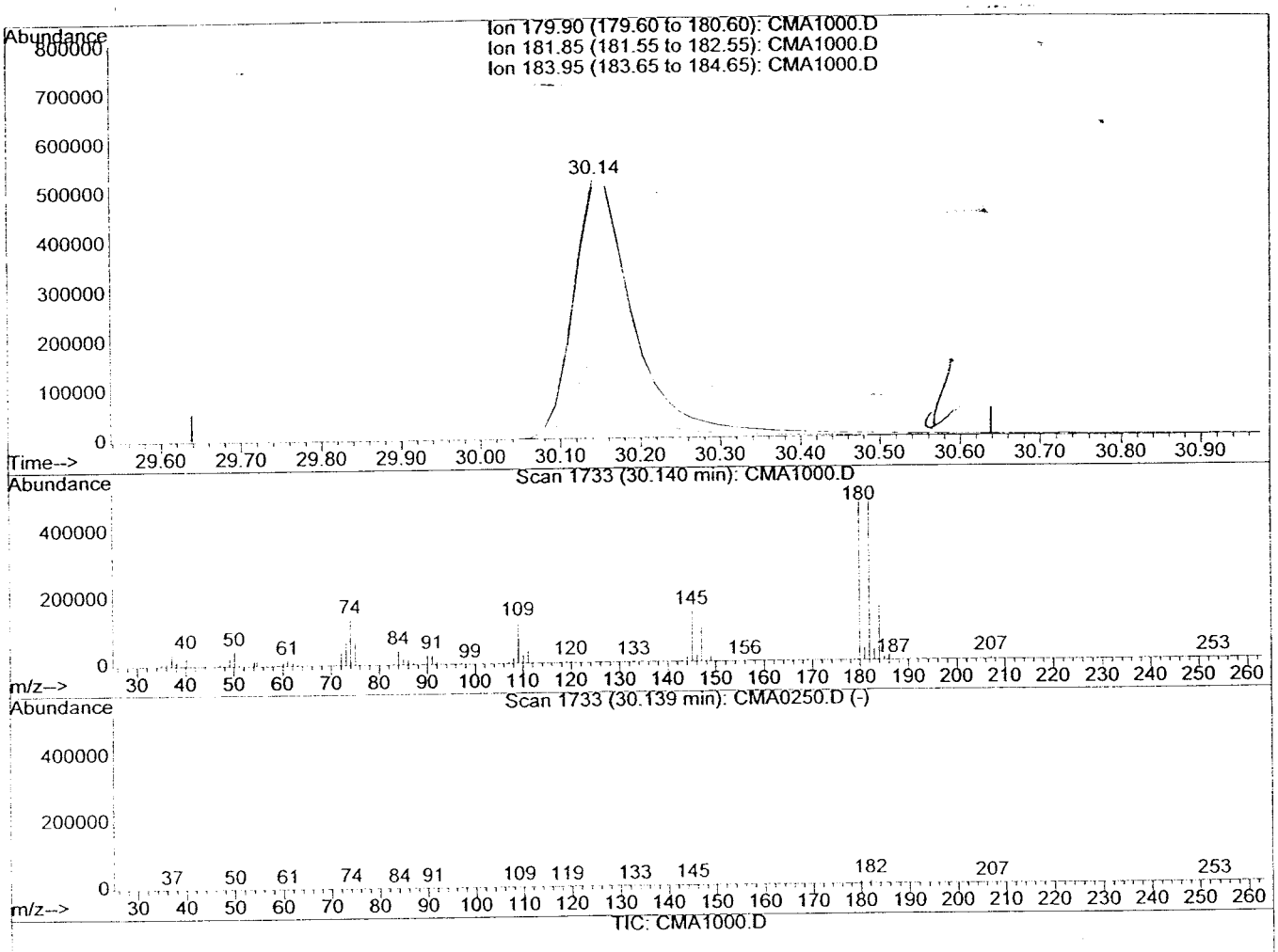
BDH 8/6/02

CMA1000.D TO14S.M Tue Aug 06 08:28:00 2002

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA1000.D
Acq On : 5 Aug 2002 17:00
Sample : 1000ng/40uL/200ppb INITIAL CALIB.
Misc : Pi/Pf=1 MA135ABK
MS Integration Params: rteint.p
Quant Time: Aug 6 8:27 2002

Vial: 7
Operator: BDH
Inst : MARILYN
Multiplr: 1.00
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Tue Aug 06 08:35:03 2002
Response via : Multiple Level Calibration



(55) 1,2,4-Trichlorobenzene

30.14min 1179.19ng

response 2806950

Ion	Exp%	Act%
179.90	100	100
181.85	96.80	98.83
183.95	30.50	31.80
0.00	0.00	0.00

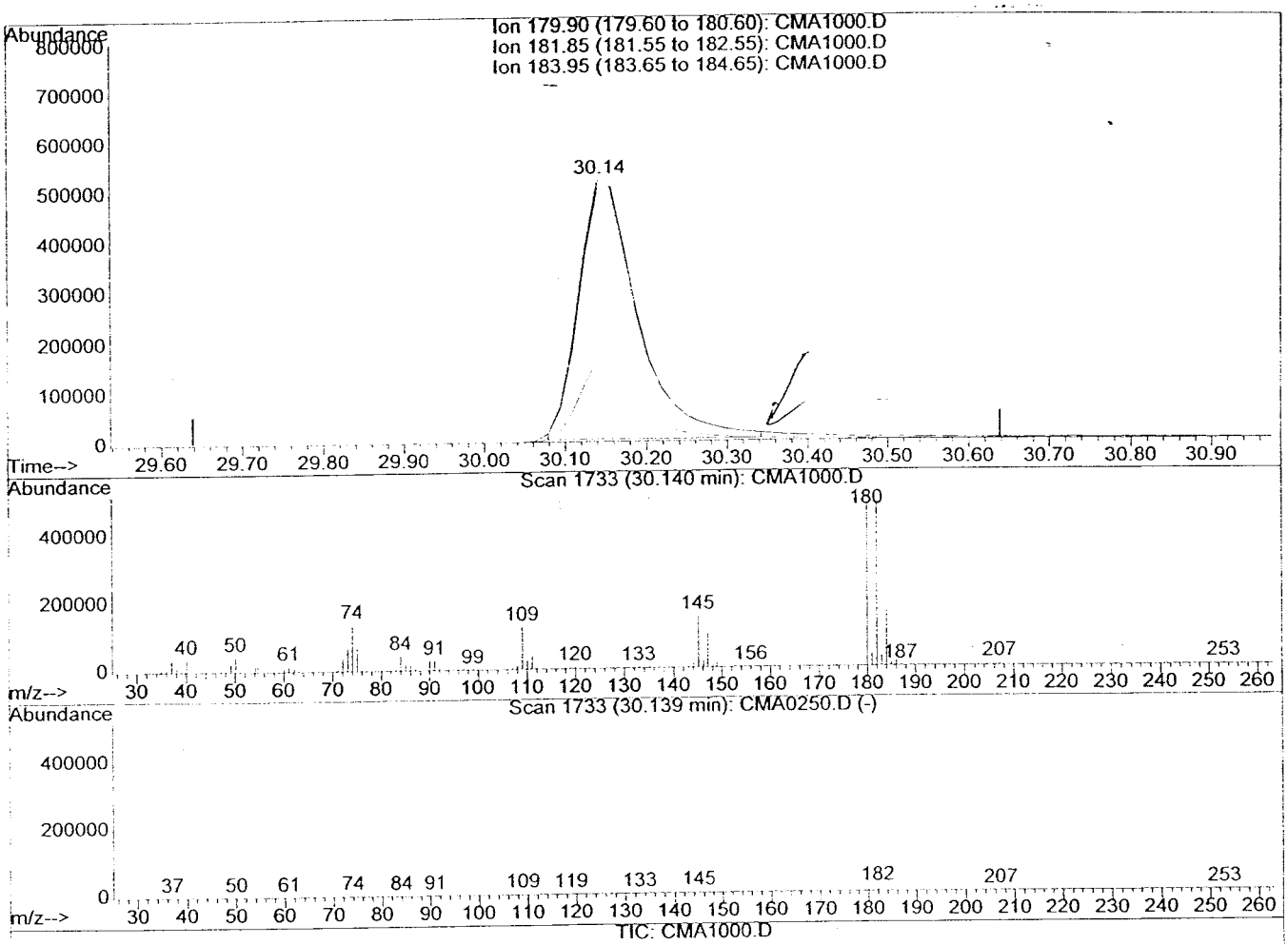
before (tailing)

CMA1000.D TO14S.M Tue Aug 06 08:56:04 2002

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA1000.D
Acq On : 5 Aug 2002 17:00
Sample : 1000ng/40uL/200ppb INITIAL CALIB.
Misc : Pi/Pf=1 MA135ABK
MS Integration Params: rteint.p
Quant Time: Aug 6 8:56 2002

Vial: 7
Operator: BDH
Inst : MARILYN
Multiplr: 1.00
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Tue Aug 06 08:35:03 2002
Response via : Multiple Level Calibration



(55) 1,2,4-Trichlorobenzene

30.14min 1099.47ng m

response 2617197

Ion	Exp%	Act%
179.90	100	100
181.85	96.80	105.99
183.95	30.50	34.10
0.00	0.00	0.00

after
BH
8/6/02

CMA1000.D TO14S.M Tue Aug 06 08:56:38 2002

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA1000.D
Acq On : 5 Aug 2002 17:00
Sample : 1000ng/40uL/200ppb INITIAL CALIB.
Misc : Pi/Pf=1 MA135ABK
MS Integration Params: rteint.p
Quant Time: Aug 5 17:32 2002

Vial: 7
Operator: BDH
Inst : MARILYN
Multiplr: 1.00

Quant Results File: TO14S.RES

Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Aug 05 17:17:06 2002
Response via : Initial Calibration
DataAcq Meth : TO14S
IS QA File : D:\HPCHEM\1\DATA02\M0805A\CMA0250.D (5 Aug 2002 14:33)

original

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) Bromochloromethane IS#1	11.06	128	491790	250.00	ng	0.02 95.72%
26) 1,4-Difluorobenzene IS#2	12.97	114	2150910	250.00	ng	0.00 100.74%
36) Chlorobenzene-d5 IS#3	20.20	117	1472598	250.00	ng	0.00 101.74%

System Monitoring Compounds

23) 1,2-Dichloroethane d4 SURR	12.18	65	568485	266.35	ng	0.00
Spiked Amount 250.000 Range 61 - 140 Recovery = 106.54%						
32) Toluene-d8 SURR#2	16.48	98	1592827	247.51	ng	0.00
Spiked Amount 250.000 Range 90 - 109 Recovery = 99.00%						
46) 4-Bromofluorobenzene SURR#	23.32	95	1122363	239.73	ng	0.00
Spiked Amount 250.000 Range 87 - 112 Recovery = 95.89%						

Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.65	85	1165578	592.64	ng		100
3) Dichlorotetrafluoroethane	3.82	135	730494	439.79	ng	#	42
4) Chloromethane	4.10	50	1650052	1290.77	ng		90
5) Vinyl chloride	4.38	62	1372772	1113.24	ng		100
6) Bromomethane	5.13	94	1334309	969.53	ng	#	99
7) Chloroethane	5.25	64	898900	1080.29	ng		97
8) Trichlorofluoromethane	5.72	101	5201310	1090.30	ng		100
9) 1,1,2-Trichlorotrifluoroet	6.51	151	4687595	1167.25	ng		80
10) 1,1-Dichloroethene	6.87	96	2359257	1154.82	ng		89
12) Methylene chloride	7.77	49	2767336	1097.95	ng		96
13) Carbon disulfide	7.88	76	6337905	1131.69	ng		100
14) methyl-Tert-Butyl Ether	8.06	73	4664588	1187.78	ng		99
15) trans-1,2-Dichloroethene	8.34	96	2729249	1153.90	ng		92
16) n-Hexane	8.45	57	2599018	1142.22	ng	#	1
17) 1,1-Dichloroethane	9.17	63	4433504	1166.00	ng		99
18) cis-1,2-Dichloroethene	10.38	61	3591268	1177.28	ng		92
19) Chloroform	10.70	83	5288744	1150.69	ng		98
20) Isooctane	11.65	57	8647232	1167.04	ng		94
21) 1,1,1-Trichloroethane	11.54	97	4850674	1156.75	ng		89
22) Carbon tetrachloride	12.10	117	4930490	1144.12	ng		99
24) 1,2-Dichloroethane	12.38	62	2649465	1151.64	ng	#	97
25) 1,2-Dibromoethane	19.26	107	4571494	1106.48	ng		100
27) Benzene	12.46	78	6267988	1075.70	ng		98

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA1000.D
Acq On : 5 Aug 2002 17:00
Sample : 1000ng/40uL/200ppb INITIAL CALIB.
Misc : Pi/Pf=1 MA135ABK
MS Integration Params: rteint.p
Quant Time: Aug 5 17:32 2002

Vial: 7
Operator: BDH
Inst : MARILYN
Multiplr: 1.00

Quant Results File: TO14S.RES

Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Aug 05 17:17:06 2002
Response via : Initial Calibration
DataAcq Meth : TO14S

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
28)	Trichloroethene	13.76	130	3620312	1067.38	ng		93
29)	1,2-Dichloropropane	14.13	63	2700131	1090.62	ng		94
30)	Bromodichloromethane	14.66	83	6101132	1069.45	ng		99
31)	cis-1,3-Dichloropropene	15.87	75	4124266	1088.14	ng		94
33)	Toluene	16.68	92	4049136	1055.30	ng		98
34)	trans-1,3-Dichloropropene	17.04	75	3482794	1083.20	ng		97
35)	1,1,2-Trichloroethane	17.44	97	2659986	1059.68	ng		96
37)	Tetrachloroethene	18.26	164	3418390	1091.11	ng		92
38)	Dibromochloromethane	18.74	127	4467087	1075.81	ng	#	96
39)	Chlorobenzene	20.31	112	5500033	1077.18	ng		92
40)	Ethylbenzene	20.41	106	2169284	1086.42	ng		97
41)	m,p-Xylene	20.61	106	5357491	2147.85	ng		95
42)	o-Xylene	21.74	106	2557684	1079.37	ng		95
43)	Styrene	21.82	104	4347537	1073.27	ng		94
44)	Bromoform	22.73	173	4547630	1014.30	ng		100
45)	1,1,2,2-Tetrachloroethane	23.08	83	3764344	1001.70	ng		100
47)	1,4-Dichloro-2-butene	22.73	75	930592	1076.63	ng		89
48)	4-Ethyltoluene	24.01	105	6255696	1049.28	ng		94
49)	1,3,5-Trimethylbenzene	24.12	105	4713467	1024.26	ng	#	81
50)	2-Chlorotoluene	24.23	91	6412753	1080.33	ng		97
51)	1,2,4-Trimethylbenzene	25.09	105	5011320	1086.29	ng		98
52)	1,3-Dichlorobenzene	26.04	146	4149999	1055.54	ng	#	93
53)	1,4-Dichlorobenzene	26.26	146	4294318	1050.66	ng	#	93
54)	1,2-Dichlorobenzene	27.02	146	3807675	1044.81	ng	#	93
55)	1,2,4-Trichlorobenzene	30.14	180	2806950	1179.19	ng		98
56)	Napthalene	30.68	128	3829648	1198.41	ng	#	92
57)	Hexachlorobutadiene	30.39	225	2137949	1213.19	ng		99

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA1500.D
Acq On : 5 Aug 2002 17:38
Sample : 1500ng/60uL/300ppb INITIAL CALIB.
Misc : Pi/Pf=1 MA135ABK
MS Integration Params: rteint.p
Quant Time: Aug 6 9:22 2002

Vial: 8
Operator: BDH
Inst : MARILYN
Multiplr: 1.00

Quant Results File: TO14S.RES

Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Aug 05 17:17:06 2002
Response via : Initial Calibration
DataAcq Meth : TO14S
IS QA File : D:\HPCHEM\1\DATA02\M0805A\CMA0250.D (5 Aug 2002 14:33)

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) Bromochloromethane IS#1	11.05	128	455796	250.00	ng	0.00 88.72%
26) 1,4-Difluorobenzene IS#2	12.98	114	1931533	250.00	ng	0.00 90.47%
36) Chlorobenzene-d5 IS#3	20.21	117	1292747	250.00	ng	0.00 89.31%

System Monitoring Compounds

23) 1,2-Dichloroethane d4 SURR	12.17	65	516454	261.08	ng	0.00
Spiked Amount 250.000 Range 61 - 140 Recovery = 104.43%						
32) Toluene-d8 SURR#2	16.49	98	1412798	244.47	ng	0.00
Spiked Amount 250.000 Range 90 - 109 Recovery = 97.79%						
46) 4-Bromofluorobenzene SURR#	23.33	95	966532	235.16	ng	0.00
Spiked Amount 250.000 Range 87 - 112 Recovery = 94.06%						

Target Compounds

						Qvalue	
2) Dichlorodifluoromethane	3.76	85	2400458m	1316.91	ng	#	99
3) Dichlorotetrafluoroethane	4.19	135	3173504m	2061.45	ng	#	41
4) Chloromethane	4.10	50	2357536	1989.84	ng	#	90
5) Vinyl chloride	4.39	62	1895947	1658.92	ng		99
6) Bromomethane	5.12	94	1842761	1444.72	ng	#	99
7) Chloroethane	5.39	64	1170173	1517.36	ng	#	64
8) Trichlorofluoromethane	5.71	101	6807261	1539.63	ng		99
9) 1,1,2-Trichlorotrifluoroet	6.50	151	6498874	1746.06	ng		80
10) 1,1-Dichloroethene	6.86	96	3133386	1654.86	ng		88
12) Methylene chloride	7.76	49	3672897	1572.31	ng		95
13) Carbon disulfide	7.87	76	8573072	1651.68	ng		100
14) methyl-Tert-Butyl Ether	8.06	73	6422859	1764.66	ng		99
15) trans-1,2-Dichloroethene	8.34	96	3744323	1708.07	ng		92
16) n-Hexane	8.44	57	3627841	1720.28	ng	#	1
17) 1,1-Dichloroethane	9.16	63	6085584	1726.88	ng		99
18) cis-1,2-Dichloroethene	10.37	61	4871796	1723.18	ng		91
19) Chloroform	10.70	83	7233937	1698.20	ng		99
20) Isooctane	11.64	57	12131564	1766.59	ng		94
21) 1,1,1-Trichloroethane	11.53	97	6601753	1698.66	ng		89
22) Carbon tetrachloride	12.09	117	6809424	1704.91	ng		99
24) 1,2-Dichloroethane	12.37	62	3604880	1690.66	ng	#	97
25) 1,2-Dibromoethane	19.27	107	6196330	1618.19	ng		100
27) Benzene	12.45	78	8500240	1624.48	ng		98

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA1500.D
Acq On : 5 Aug 2002 17:38
Sample : 1500ng/60uL/300ppb INITIAL CALIB.
Misc : Pi/Pf=1 MA135ABK
MS Integration Params: rteint.p
Quant Time: Aug 6 9:22 2002

Vial: 8
Operator: BDH
Inst : MARILYN
Multiplr: 1.00
Quant Results File: TO14S.RES

Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Aug 05 17:17:06 2002
Response via : Initial Calibration
DataAcq Meth : TO14S

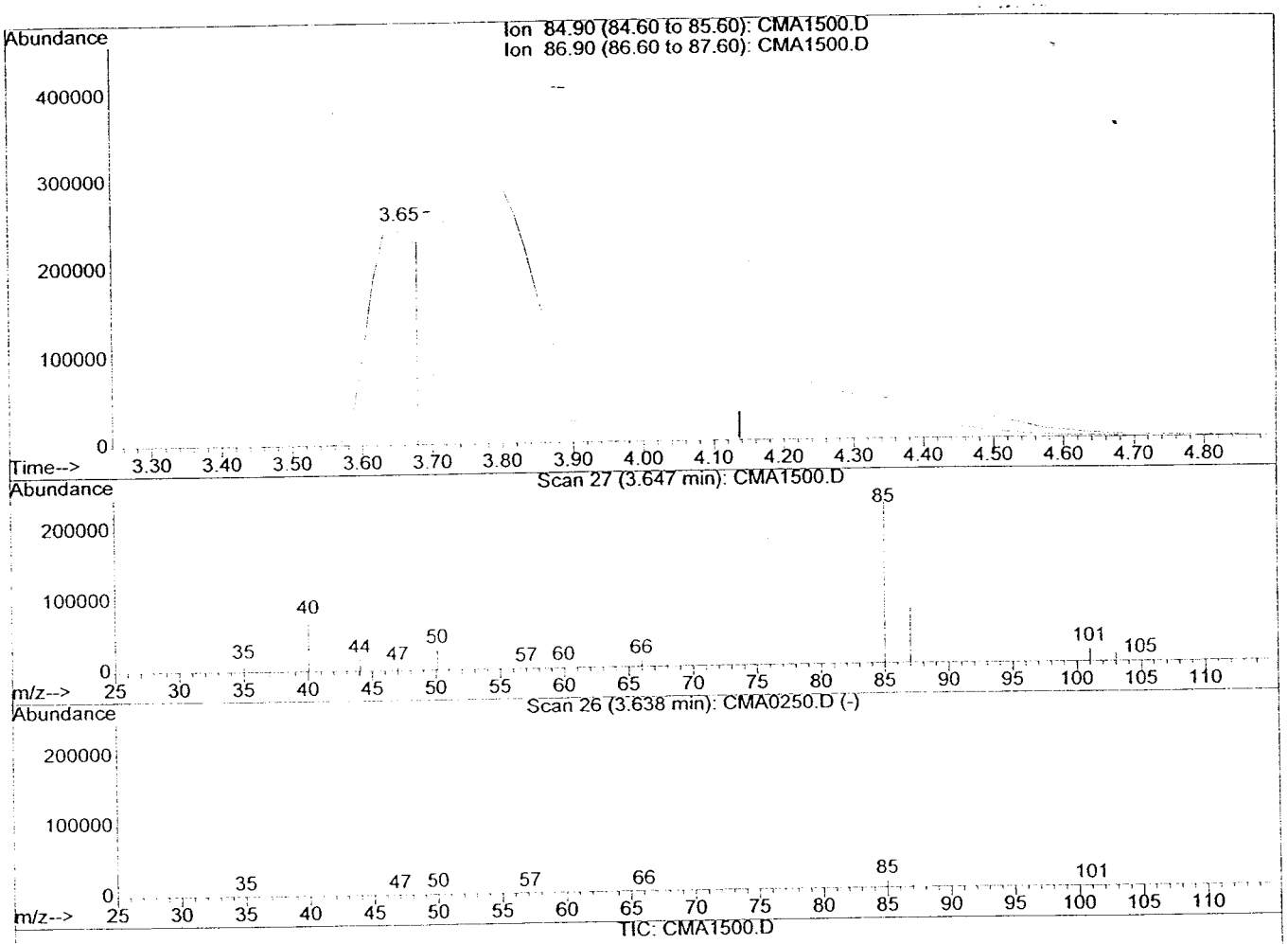
Compound	R.T.	QIon	Response	Conc Unit		Qvalue
28) Trichloroethene	13.75	130	4905602	1610.59 ng		93
29) 1,2-Dichloropropane	14.14	63	3667215	1649.48 ng		94
30) Bromodichloromethane	14.67	83	8246077	1609.60 ng		98
31) cis-1,3-Dichloropropene	15.87	75	5570045	1636.50 ng		94
33) Toluene	16.67	92	5445867	1580.53 ng	#	97
34) trans-1,3-Dichloropropene	17.03	75	4698934	1627.42 ng		97
35) 1,1,2-Trichloroethane	17.43	97	3608551	1600.84 ng		97
37) Tetrachloroethene	18.27	164	4624498	1681.45 ng		92
38) Dibromochloromethane	18.75	127	5988121	1642.75 ng	#	96
39) Chlorobenzene	20.31	112	7257858	1619.21 ng		92
40) Ethylbenzene	20.41	106	2899256	1654.01 ng		97
41) m,p-Xylene	20.62	106	6951940	3174.82 ng		96
42) o-Xylene	21.75	106	3357943	1614.24 ng		95
43) Styrene	21.83	104	5650591	1589.02 ng		95
44) Bromoform	22.74	173	5941755	1509.62 ng		99
45) 1,1,2,2-Tetrachloroethane	23.09	83	4774741	1447.34 ng		99
47) 1,4-Dichloro-2-butene	22.74	75	1218445	1605.77 ng		89
48) 4-Ethyltoluene	24.03	105	8029499	1534.17 ng		94
49) 1,3,5-Trimethylbenzene	24.13	105	6006527	1486.84 ng	#	81
50) 2-Chlorotoluene	24.23	91	8248298	1582.87 ng		97
51) 1,2,4-Trimethylbenzene	25.10	105	6415415	1584.12 ng		97
52) 1,3-Dichlorobenzene	26.04	146	5291893	1533.24 ng	#	93
53) 1,4-Dichlorobenzene	26.25	146	5437283	1515.37 ng	#	93
54) 1,2-Dichlorobenzene	27.03	146	4799427	1500.17 ng	#	93
55) 1,2,4-Trichlorobenzene	30.15	180	3567897	1707.38 ng		98
56) Napthalene	30.68	128	5191275	1850.52 ng	#	92
57) Hexachlorobutadiene	30.40	225	2684141	1735.03 ng		99

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA1500.D
Acq On : 5 Aug 2002 17:38
Sample : 1500ng/60uL/300ppb INITIAL CALIB.
Misc : Pi/Pf=1 MA135ABK
MS Integration Params: rteint.p
Quant Time: Aug 5 18:11 2002

Vial: 8
Operator: BDH
Inst : MARILYN
Multiplr: 1.00
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Aug 05 17:17:06 2002
Response via : Multiple Level Calibration



(2) Dichlorodifluoromethane

3.65min 652.84ng

response 1189987

Ion	Exp%	Act%
84.90	100	100
86.90	33.50	33.13
0.00	0.00	0.00
0.00	0.00	0.00

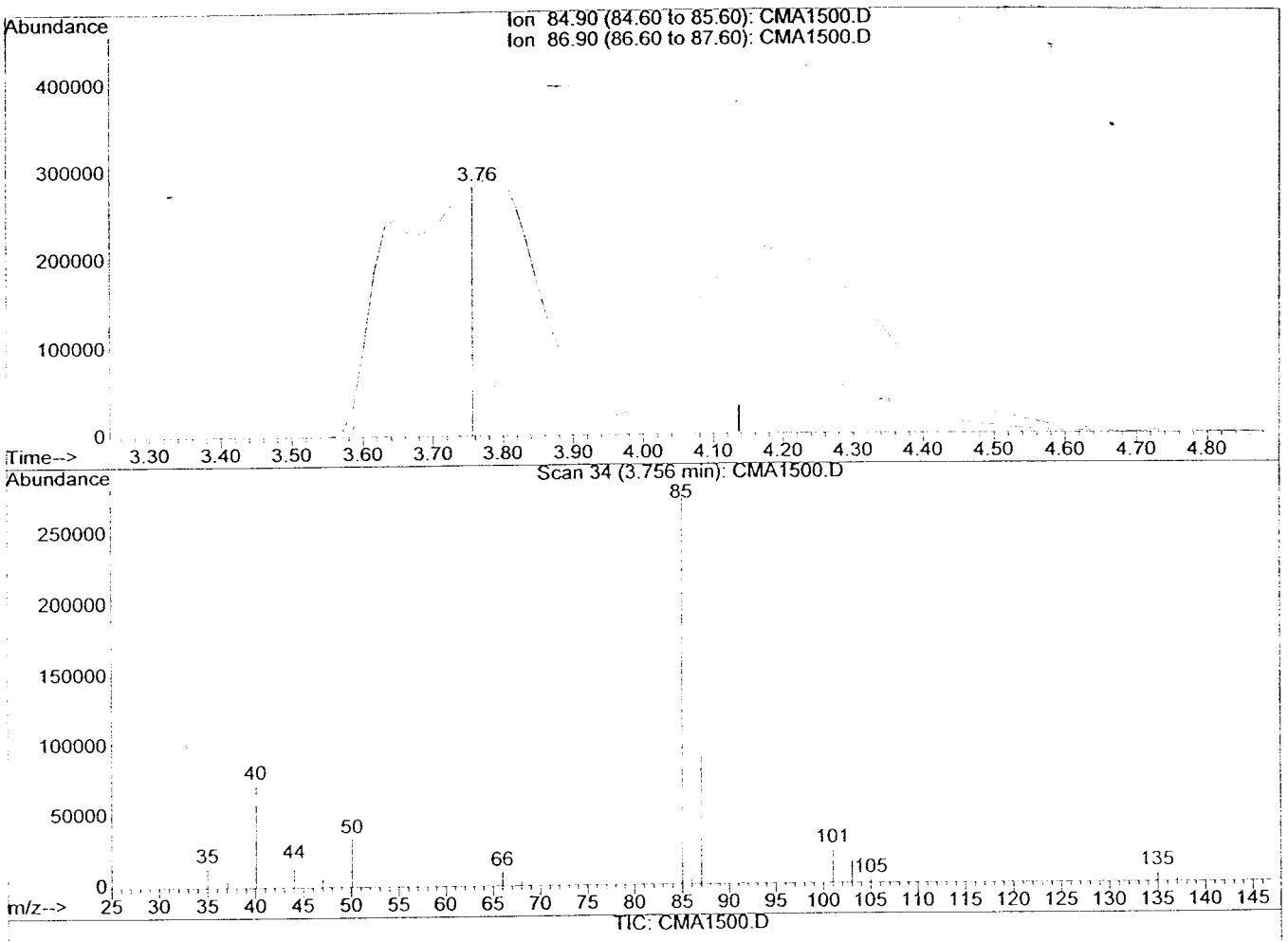
before
(tailing)

CMA1500.D TO14S.M Tue Aug 06 08:32:27 2002

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA1500.D
Acq On : 5 Aug 2002 17:38
Sample : 1500ng/60uL/300ppb INITIAL CALIB.
Misc : Pi/Pf=1 MA135ABK
MS Integration Params: rteint.p
Quant Time: Aug 6 9:22 2002

Vial: 8
Operator: BDH
Inst : MARILYN
Multiplr: 1.00
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Tue Aug 06 09:21:42 2002
Response via : Multiple Level Calibration



(2) Dichlorodifluoromethane

3.76min 1316.91ng m

response 2400458

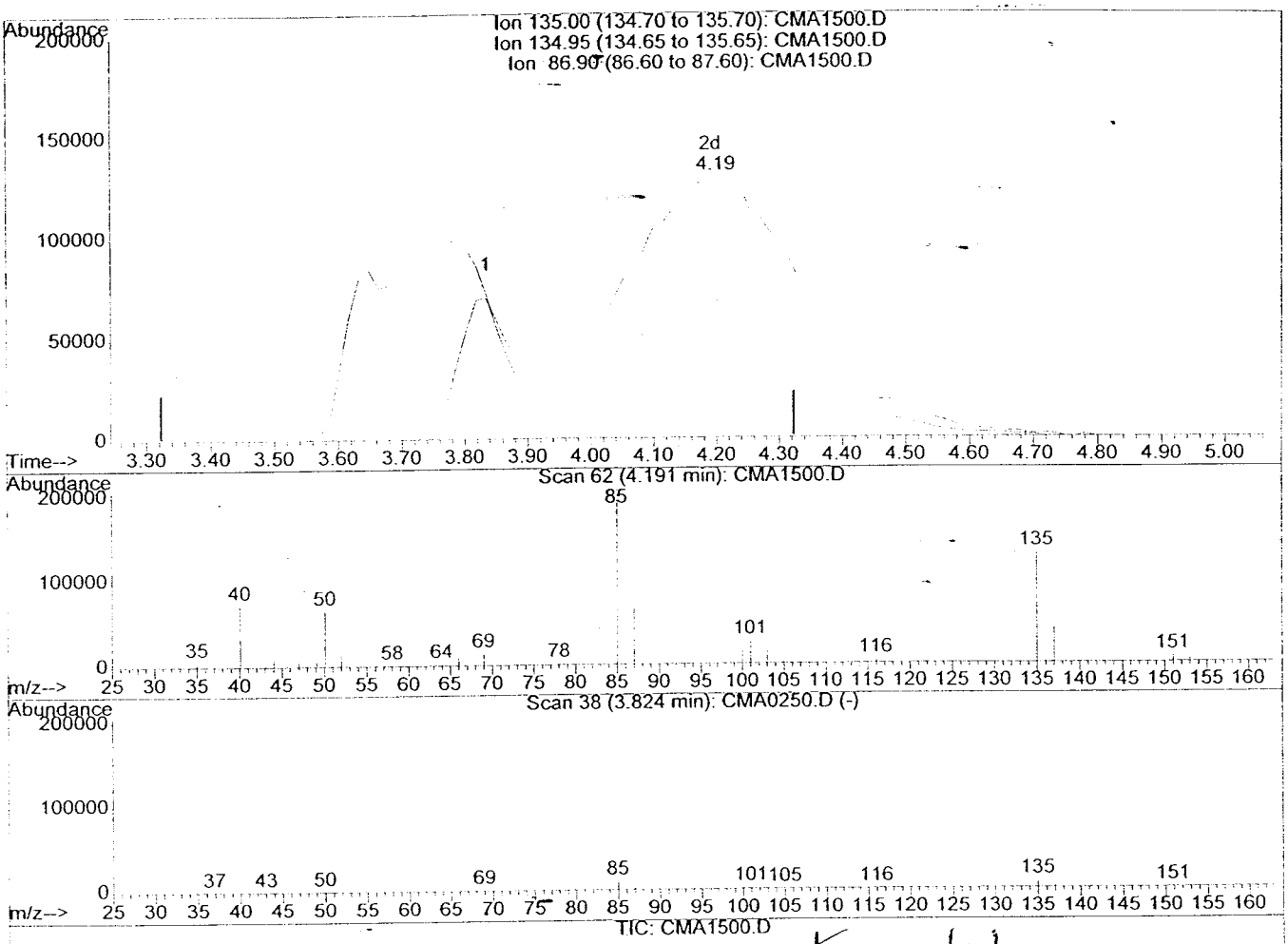
Ion	Exp%	Act%
84.90	100	100
86.90	33.50	16.43#
0.00	0.00	0.00
0.00	0.00	0.00

CMA1500.D TO14S.M Tue Aug 06 09:23:00 2002

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA1500.D
Acq On : 5 Aug 2002 17:38
Sample : 1500ng/60uL/300ppb INITIAL CALIB.
Misc : Pi/Pf=1 MA135ABK
MS Integration Params: rteint.p
Quant Time: Aug 6 8:33 2002

Vial: 8
Operator: BDH
Inst : MARILYN
Multiplr: 1.00
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Aug 05 17:17:06 2002
Response via : Multiple Level Calibration



(3) Dichlorotetrafluoroethane

4.19min 2061.45ng m

response 3173504

Ion	Exp%	Act%
135.00	100	100
134.95	56.30	14.99#
86.90	32.70	0.00#
0.00	0.00	0.00

~~before~~ after (tailing) BDH 8/6/02

CMA1500.D TO14S.M Tue Aug 06 08:33:41 2002

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA1500.D
Acq On : 5 Aug 2002 17:38
Sample : 1500ng/60uL/300ppb INITIAL CALIB.
Misc : Pi/Pf=1 MA135ABK
MS Integration Params: rteint.p
Quant Time: Aug 5 18:11 2002

Vial: 8
Operator: BDH
Inst : MARILYN
Multiplr: 1.00

Quant Results File: TO14S.RES

Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Aug 05 17:17:06 2002
Response via : Initial Calibration
DataAcq Meth : TO14S
IS QA File : D:\HPCHEM\1\DATA02\M0805A\CMA0250.D (5 Aug 2002 14:33)

orig.

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min) Rcv(Ar)
1) Bromochloromethane IS#1	11.05	128	455796	250.00	ng		0.00 88.72%
26) 1,4-Difluorobenzene IS#2	12.98	114	1931533	250.00	ng		0.00 90.47%
36) Chlorobenzene-d5 IS#3	20.21	117	1292747	250.00	ng		0.00 89.31%

System Monitoring Compounds

23) 1,2-Dichloroethane d4 SURR	12.17	65	516454	261.08	ng		0.00
Spiked Amount 250.000 Range 61 - 140 Recovery = 104.43%							
32) Toluene-d8 SURR#2	16.49	98	1412798	244.47	ng		0.00
Spiked Amount 250.000 Range 90 - 109 Recovery = 97.79%							
46) 4-Bromofluorobenzene SURR#	23.33	95	966532	235.16	ng		0.00
Spiked Amount 250.000 Range 87 - 112 Recovery = 94.06%							

Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.65	85	1189987	652.84	ng		99
3) Dichlorotetrafluoroethane	3.83	135	475855	309.11	ng	#	41
4) Chloromethane	4.10	50	2357536	1989.84	ng	#	90
5) Vinyl chloride	4.39	62	1895947	1658.92	ng		99
6) Bromomethane	5.12	94	1842761	1444.72	ng	#	99
7) Chloroethane	5.39	64	1170173	1517.36	ng	#	64
8) Trichlorofluoromethane	5.71	101	6807261	1539.63	ng		99
9) 1,1,2-Trichlorotrifluoroet	6.50	151	6498874	1746.06	ng		80
10) 1,1-Dichloroethene	6.86	96	3133386	1654.86	ng		88
12) Methylene chloride	7.76	49	3672897	1572.31	ng		95
13) Carbon disulfide	7.87	76	8573072	1651.68	ng		100
14) methyl-Tert-Butyl Ether	8.06	73	6422859	1764.66	ng		99
15) trans-1,2-Dichloroethene	8.34	96	3744323	1708.07	ng		92
16) n-Hexane	8.44	57	3627841	1720.28	ng	#	1
17) 1,1-Dichloroethane	9.16	63	6085584	1726.88	ng		99
18) cis-1,2-Dichloroethene	10.37	61	4871796	1723.18	ng		91
19) Chloroform	10.70	83	7233937	1698.20	ng		99
20) Isooctane	11.64	57	12131564	1766.59	ng		94
21) 1,1,1-Trichloroethane	11.53	97	6601753	1698.66	ng		89
22) Carbon tetrachloride	12.09	117	6809424	1704.91	ng		99
24) 1,2-Dichloroethane	12.37	62	3604880	1690.66	ng	#	97
25) 1,2-Dibromoethane	19.27	107	6196330	1618.19	ng		100
27) Benzene	12.45	78	8500240	1624.48	ng		98

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA1500.D
Acq On : 5 Aug 2002 17:38
Sample : 1500ng/60uL/300ppb INITIAL CALIB.
Misc : Pi/Pf=1 MA135ABK
MS Integration Params: rteint.p
Quant Time: Aug 5 18:11 2002

Vial: 8
Operator: BDH
Inst : MARILYN
Multiplr: 1.00

Quant Results File: TO14S.RES

Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Aug 05 17:17:06 2002
Response via : Initial Calibration
DataAcq Meth : TO14S

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
28) Trichloroethene	13.75	130	4905602	1610.59	ng		93
29) 1,2-Dichloropropane	14.14	63	3667215	1649.48	ng		94
30) Bromodichloromethane	14.67	83	8246077	1609.60	ng		98
31) cis-1,3-Dichloropropene	15.87	75	5570045	1636.50	ng		94
33) Toluene	16.67	92	5445867	1580.53	ng	#	97
34) trans-1,3-Dichloropropene	17.03	75	4698934	1627.42	ng		97
35) 1,1,2-Trichloroethane	17.43	97	3608551	1600.84	ng		97
37) Tetrachloroethene	18.27	164	4624498	1681.45	ng		92
38) Dibromochloromethane	18.75	127	5988121	1642.75	ng	#	96
39) Chlorobenzene	20.31	112	7257858	1619.21	ng		92
40) Ethylbenzene	20.41	106	2899256	1654.01	ng		97
41) m,p-Xylene	20.62	106	6951940	3174.82	ng		96
42) o-Xylene	21.75	106	3357943	1614.24	ng		95
43) Styrene	21.83	104	5650591	1589.02	ng		95
44) Bromoform	22.74	173	5941755	1509.62	ng		99
45) 1,1,2,2-Tetrachloroethane	23.09	83	4774741	1447.34	ng		99
47) 1,4-Dichloro-2-butene	22.74	75	1218445	1605.77	ng		89
48) 4-Ethyltoluene	24.03	105	8029499	1534.17	ng		94
49) 1,3,5-Trimethylbenzene	24.13	105	6006527	1486.84	ng	#	81
50) 2-Chlorotoluene	24.23	91	8248298	1582.87	ng		97
51) 1,2,4-Trimethylbenzene	25.10	105	6415415	1584.12	ng		97
52) 1,3-Dichlorobenzene	26.04	146	5291893	1533.24	ng	#	93
53) 1,4-Dichlorobenzene	26.25	146	5437283	1515.37	ng	#	93
54) 1,2-Dichlorobenzene	27.03	146	4799427	1500.17	ng	#	93
55) 1,2,4-Trichlorobenzene	30.15	180	3567897	1707.38	ng		98
56) Napthalene	30.68	128	5191275	1850.52	ng	#	92
57) Hexachlorobutadiene	30.40	225	2684141	1735.03	ng		99

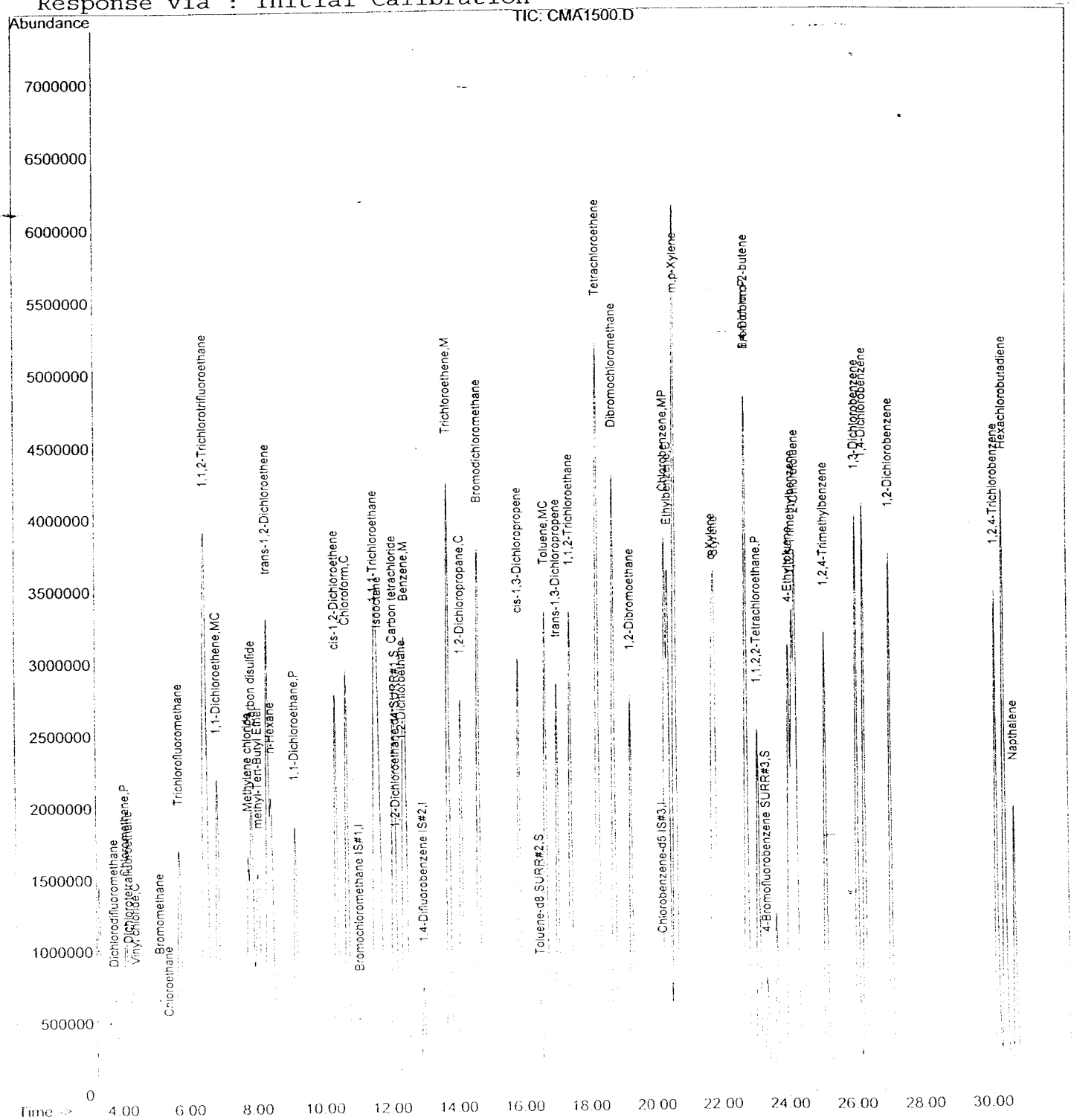
(#) = qualifier out of range (m) manual integration

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA1500.D
Acq On : 5 Aug 2002 17:38
Sample : 1500ng/60uL/300ppb INITIAL CALIB.
Misc : Pi/Pf=1 MA135ABK
MS Integration Params: rteint.p
Quant Time: Aug 6 9:22 2002

Vial: 8
Operator: BDH
Inst : MARILYN
Multiplr: 1.00

Quant Results File: TO14S.RES

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Tue Aug 06 09:21:42 2002
Response via : Initial Calibration



STL Pensacola / GCMS Volatiles Run Log

Date 9-3-02 Instrument ID : MARILYN Method : TO14 /8260AIR /8260WATER /624MOD

Batch MA154 (1) 2 3 Batch _____ 1 2 3

IS# 8 -MSW- 34 - 1 TO14 8 -MSW- 37 - 1 AIR-SPK 8 -MSW- 36 - 2 Maint. _____

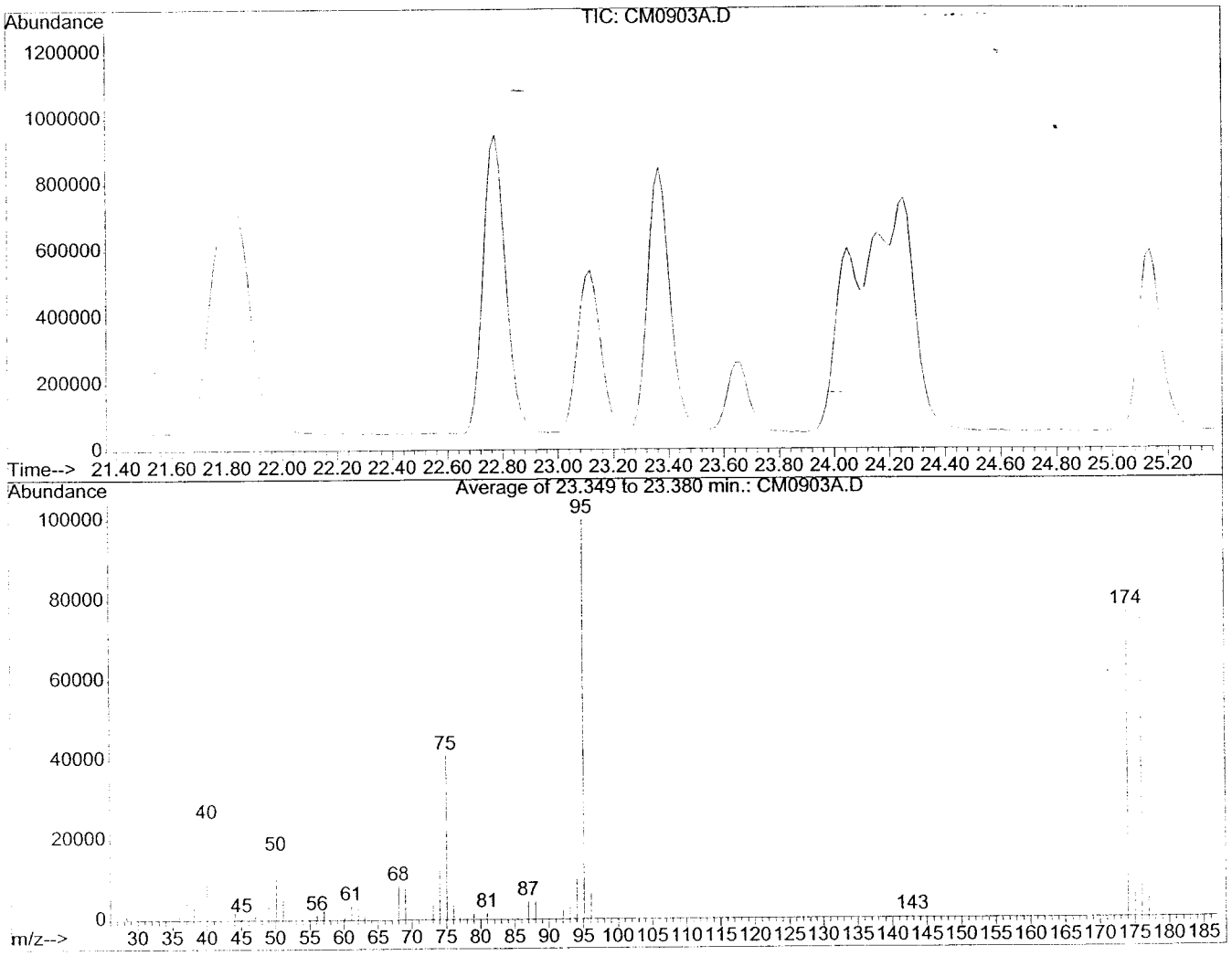
BFB 8 -MSW- 34 - 1 8260 -MSW- - W-SPK -MSW- -

TIME	POS #	METH	FILE NAME/ SAMPLE ID	DIL.	RR	PRES	MATRIX	QC PASS**	*INIT	COMMENTS
08:47	1	To14s.m	CM 0903A	250ng			W	yes	BAA	Daily Cal Check / BFB tune
09:25	2		M A154A BK	ST						Daily Method Blank
10:03	3		M A154 LCS	50ppb						Batch# 154 LCS
10:41	4		8470-2RR	x2000	✓✓	Y N	A (To14)			250uls for n-hexane only
11:16	1		QC206	ST.		Y N				QC Can check #206 - passes
11:53	1		8603-1	ST.		Y N				500uls
12:32	1		8604-1	ST.		Y N				
13:10	1		8605-1	ST.		Y N				re-run x20 for Tetcle
:	1		-2	ST.		Y N				
:	1		-3	ST.		Y N				
:						Y N				
:						Y N				
:						Y N				
:						Y N				
:						Y N				
:						Y N				
:						Y N				
:						Y N				
:						Y N				
:						Y N				
:						Y N				
:						Y N				

* The analyst whose name appears above is the analyst who removed the sample(s) from the sample storage refrigerator, maintained custody during analysis and relinquished sample(s) back to the sample storage refrigerator.

BFB

Data File : D:\HPCHEM\1\DATA\MARILYN\2M0903A\CM0903A.D Vial: 1
Acq On : 3 Sep 2002 8:47 am Operator: BDH
Sample : VSTD050\ DAILY CALIBRATION CHECK Inst : MARILYN
Misc : Pi/Pf=1 MA154ABK 250ng Multiplr: 1.00
MS Integration Params: rteint.p
Method : D:\HPCHEM\1\METHODS\MARILYN\CRV080502 TO14\TO14S.M (RTE Integr
Title : TO14



Spectrum Information: Average of 23.349 to 23.380 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.0	16019	PASS
75	95	30	60	41.1	41064	PASS
95	95	100	100	100.0	100000	PASS
96	95	5	9	6.5	6512	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	76.5	76542	PASS
175	174	5	9	7.5	5716	PASS
176	174	95	101	99.2	75945	PASS
177	176	5	9	6.2	4677	PASS

CM0903A.D TO14S.M Tue Sep 03 16:27:31 2002

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\MARILYN\2M0903A\CM0903A.D Vial: 1
Acq On : 3 Sep 2002 8:47 am Operator: BDH
Sample : VSTD050\ DAILY CALIBRATION CHECK Inst : MARILYN
Misc : Pi/Pf=1 MA154ABK 250ng Multiplier: 1.00
MS Integration Params: rteint.p

Method : D:\HPCHEM\1\METHODS\MARILYN\CRV080502 TO14\TO14S.M (RTE Integ
Title : TO14
Last Update : Tue Sep 03 16:22:53 2002
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 2% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane IS#1	1.000	1.000	0.0	91	0.00
2		Dichlorodifluoromethane	0.776	0.958	-23.5#	103	0.00
3		Dichlorotetrafluoroethane	1.201	1.426	-18.7#	97	0.00
4	P	Chloromethane	0.753	0.764	-1.5	93	0.00
5	C	Vinyl chloride	0.658	0.766	-16.4#	96	0.00
6		Bromomethane	0.625	0.653	-4.5#	101	0.00
7		Chloroethane	0.416	0.540	-29.8#	100	0.00
8		Trichlorofluoromethane	2.508	2.777	-10.7#	92	0.00
9		1,1,2-Trichlorotrifluoroeth	2.166	2.367	-9.3#	94	0.00
10	MC	1,1-Dichloroethene	1.107	1.196	-8.0#	93	0.00
11		Iodomethane	0.000	0.000	0.0	151#	0.00
12		Methylene chloride	1.322	1.445	-9.3#	95	0.00
13		Carbon disulfide	3.024	3.255	-7.6#	93	0.00
14		methyl-Tert-Butyl Ether	2.135	2.243	-5.1#	94	0.00
15		trans-1,2-Dichloroethene	1.278	1.380	-8.0#	93	0.00
16		n-Hexane	1.257	1.310	-4.2#	95	0.00
17	P	1,1-Dichloroethane	2.053	2.229	-8.6#	94	0.00
18		cis-1,2-Dichloroethene	1.645	1.788	-8.7#	94	0.00
19	C	Chloroform	2.454	2.714	-10.6#	94	0.00
20		Isooctane	4.047	4.317	-6.7#	95	0.00
21		1,1,1-Trichloroethane	2.235	2.424	-8.5#	93	0.00
22		Carbon tetrachloride	2.266	2.450	-8.1#	93	0.00
23	S	1,2-Dichloroethane d4 SURR#	1.114	1.097	1.5	92	0.00
24		1,2-Dichloroethane	1.216	1.297	-6.7#	94	0.00
25		1,2-Dibromoethane	2.141	2.325	-8.6#	94	0.00
26	I	1,4-Difluorobenzene IS#2	1.000	1.000	0.0	92	0.00
27	M	Benzene	0.703	0.792	-12.7#	98	0.00
28	M	Trichloroethene	0.399	0.444	-11.3#	96	0.00
29	C	1,2-Dichloropropane	0.297	0.321	-8.1#	94	0.00
30		Bromodichloromethane	0.675	0.748	-10.8#	96	0.00
31		cis-1,3-Dichloropropene	0.451	0.490	-8.6#	95	0.00
32	S	Toluene-d8 SURR#2	0.738	0.736	0.3	92	0.00
33	MC	Toluene	0.446	0.489	-9.6#	95	0.00
34		trans-1,3-Dichloropropene	0.380	0.409	-7.6#	95	0.00
35		1,1,2-Trichloroethane	0.295	0.321	-8.8#	95	0.00
36	I	Chlorobenzene-d5 IS#3	1.000	1.000	0.0	94	0.00
37		Tetrachloroethene	0.546	0.595	-9.0#	97	0.00
38		Dibromochloromethane	0.726	0.792	-9.1#	96	0.00
39	MP	Chlorobenzene	0.880	0.981	-11.5#	97	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\MARILYN\2M0903A\CM0903A.D Vial: 1
Acq On : 3 Sep 2002 8:47 am Operator: BDH
Sample : VSTD050\ DAILY CALIBRATION CHECK Inst : MARILYN
Misc : Pi/Pf=1 MA154ABK 250ng Multiplier: 1.00
MS Integration Params: rteint.p

Method : D:\HPCHEM\1\METHODS\MARILYN\CRV080502 TO14\TO14S.M (RTE Integ
Title : TO14
Last Update : Tue Sep 03 16:22:53 2002
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 2% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
40	C	Ethylbenzene	0.345	0.376	-9.0#	97	0.00
41		m,p-Xylene	0.421	0.468	-11.2#	97	0.00
42		o-Xylene	0.399	0.441	-10.5#	96	0.00
43		Styrene	0.674	0.754	-11.9#	98	0.00
44	P	Bromoform	0.764	0.833	-9.0#	93	0.00
45	P	1,1,2,2-Tetrachloroethane	0.652	0.691	-6.0#	90	0.00
46	S	4-Bromofluorobenzene SURR#3	0.773	0.773	0.0	94	0.00
47		1,4-Dichloro-2-butene	0.153	0.159	-3.9#	90	0.00
48		4-Ethyltoluene	0.999	1.017	-1.8	90	0.00
49		1,3,5-Trimethylbenzene	0.769	1.005	-30.7#	107	0.00
50		2-Chlorotoluene	1.006	1.127	-12.0#	101	0.00
51		1,2,4-Trimethylbenzene	0.773	0.877	-13.5#	100	0.00
52		1,3-Dichlorobenzene	0.651	0.734	-12.7#	98	0.00
53		1,4-Dichlorobenzene	0.671	0.764	-13.9#	101	0.00
54		1,2-Dichlorobenzene	0.605	0.701	-15.9#	97	0.00
55		1,2,4-Trichlorobenzene	0.412	0.496	-20.4#	105	0.00
56		Napthalene	0.585	0.615	-5.1#	91	0.00
57		Hexachlorobutadiene	0.326	0.376	-15.3#	101	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\MARILYN\2M0903A\CM0903A.D Vial: 1
Acq On : 3 Sep 2002 8:47 am Operator: BDH
Sample : VSTD050\ DAILY CALIBRATION CHECK Inst : MARILYN
Misc : Pi/Pf=1 MA154ABK 250ng Multiplier: 1.00
MS Integration Params: rteint.p

Method : D:\HPCHEM\1\METHODS\MARILYN\CRV080502 TO14\TO14S.M (RTE Integ
Title : TO14
Last Update : Tue Sep 03 16:22:53 2002
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 2% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Bromochloromethane IS#1	250.000	250.000	0.0	91	0.00
2		Dichlorodifluoromethane	250.000	292.895	-17.2#	103	0.00
3		Dichlorotetrafluoroethane	250.000	296.940	-18.8#	97	0.00
4	P	Chloromethane	250.000	253.834	-1.5	93	0.00
5	C	Vinyl chloride	250.000	291.265	-16.5#	96	0.00
6		Bromomethane	250.000	261.078	-4.4#	101	0.00
7		Chloroethane	250.000	295.718	-18.3#	100	0.00
8		Trichlorofluoromethane	250.000	276.819	-10.7#	92	0.00
9		1,1,2-Trichlorotrifluoroeth	250.000	273.182	-9.3#	94	0.00
10	MC	1,1-Dichloroethene	250.000	270.111	-8.0#	93	0.00
11		Iodomethane	-1.000	0.000	0.0	151	0.00
12		Methylene chloride	250.000	273.307	-9.3#	95	0.00
13		Carbon disulfide	250.000	269.100	-7.6#	93	0.00
14		methyl-Tert-Butyl Ether	250.000	262.679	-5.1#	94	0.00
15		trans-1,2-Dichloroethene	250.000	269.969	-8.0#	93	0.00
16		n-Hexane	250.000	260.530	-4.2#	95	0.00
17	P	1,1-Dichloroethane	250.000	271.467	-8.6#	94	0.00
18		cis-1,2-Dichloroethene	250.000	271.784	-8.7#	94	0.00
19	C	Chloroform	250.000	276.512	-10.6#	94	0.00
20		Isooctane	250.000	266.678	-6.7#	95	0.00
21		1,1,1-Trichloroethane	250.000	271.045	-8.4#	93	0.00
22		Carbon tetrachloride	250.000	270.339	-8.1#	93	0.00
23	S	1,2-Dichloroethane d4 SURR#	250.000	246.124	1.6	92	0.00
24		1,2-Dichloroethane	250.000	266.657	-6.7#	94	0.00
25		1,2-Dibromoethane	250.000	271.504	-8.6#	94	0.00
26	I	1,4-Difluorobenzene IS#2	250.000	250.000	0.0	92	0.00
27	M	Benzene	250.000	281.790	-12.7#	98	0.00
28	M	Trichloroethene	250.000	278.317	-11.3#	96	0.00
29	C	1,2-Dichloropropane	250.000	270.756	-8.3#	94	0.00
30		Bromodichloromethane	250.000	277.000	-10.8#	96	0.00
31		cis-1,3-Dichloropropene	250.000	271.682	-8.7#	95	0.00
32	S	Toluene-d8 SURR#2	250.000	249.442	0.2	92	0.00
33	MC	Toluene	250.000	274.106	-9.6#	95	0.00
34		trans-1,3-Dichloropropene	250.000	269.027	-7.6#	95	0.00
35		1,1,2-Trichloroethane	250.000	272.138	-8.9#	95	0.00
36	I	Chlorobenzene-d5 IS#3	250.000	250.000	0.0	94	0.00
37		Tetrachloroethene	250.000	272.096	-8.8#	97	0.00
38		Dibromochloromethane	250.000	272.653	-9.1#	96	0.00
39	MP	Chlorobenzene	250.000	278.772	-11.5#	97	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\MARILYN\2M0903A\CM0903A.D Vial: 1
Acq On : 3 Sep 2002 8:47 am Operator: BDH
Sample : VSTD050\ DAILY CALIBRATION CHECK Inst : MARILYN
Misc : Pi/Pf=1 MA154ABK 250ng Multiplier: 1.00
MS Integration Params: rteint.p

Method : D:\HPCHEM\1\METHODS\MARILYN\CRV080502 TO14\TO14S.M (RTE Integ
Title : TO14
Last Update : Tue Sep 03 16:22:53 2002
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 2% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
40	C	Ethylbenzene	250.000	272.278	-8.9#	97	0.00
41		m,p-Xylene	500.000	556.517	-11.3#	97	0.00
42		o-Xylene	250.000	276.701	-10.7#	96	0.00
43		Styrene	250.000	279.705	-11.9#	98	0.00
44	P	Bromoform	250.000	272.659	-9.1#	93	0.00
45	P	1,1,2,2-Tetrachloroethane	250.000	264.802	-5.9#	90	0.00
46	S	4-Bromofluorobenzene SURR#3	250.000	249.834	0.1	94	0.00
47		1,4-Dichloro-2-butene	250.000	258.891	-3.6#	90	0.00
48		4-Ethyltoluene	250.000	254.328	-1.7	90	0.00
49		1,3,5-Trimethylbenzene	250.000	326.654	-30.7#	107	0.00
50		2-Chlorotoluene	250.000	280.147	-12.1#	101	0.00
51		1,2,4-Trimethylbenzene	250.000	283.559	-13.4#	100	0.00
52		1,3-Dichlorobenzene	250.000	282.099	-12.8#	98	0.00
53		1,4-Dichlorobenzene	250.000	284.966	-14.0#	101	0.00
54		1,2-Dichlorobenzene	250.000	289.878	-16.0#	97	0.00
55		1,2,4-Trichlorobenzene	250.000	300.503	-20.2#	105	0.00
56		Napthalene	250.000	263.188	-5.3#	91	0.00
57		Hexachlorobutadiene	250.000	288.040	-15.2#	101	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Quantitation Report

Data File : D:\HPCHEM\1\DATA02\M0903A\CM0903A.D
Acq On : 3 Sep 2002 8:47
Sample : VSTD050\ DAILY CALIBRATION CHECK
Misc : Pi/Pf=1 MA154ABK 250ng
MS Integration Params: rteint.p
Quant Time: Sep 3 9:55 2002

Vial: 1
Operator: BDH
Inst : MARILYN
Multiplr: 1.00

Quant Results File: TO14S.RES

Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Fri Aug 23 10:36:24 2002
Response via : Initial Calibration
DataAcq Meth : TO14S
IS QA File : D:\HPCHEM\1\DATA02\M0823A\CM0823A.D (23 Aug 2002 9:59)

BH 9/3/02

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Air)
1) Bromochloromethane IS#1	11.07	128	466027	250.00 ng	0.04 98.93%
26) 1,4-Difluorobenzene IS#2	12.99	114	1954517	250.00 ng	0.04 95.08%
36) Chlorobenzene-d5 IS#3	20.24	117	1361909	250.00 ng	0.06 94.52%

System Monitoring Compounds					
23) 1,2-Dichloroethane d4 SURR	12.20	65	511297m	246.12 ng	0.06
Spiked Amount 250.000	Range 61 - 140		Recovery = 98.45%		
32) Toluene-d8 SURR#2	16.52	98	1439112	249.44 ng	0.06
Spiked Amount 250.000	Range 90 - 109		Recovery = 99.78%		
46) 4-Bromofluorobenzene SURR#	23.36	95	1052121	249.83 ng	0.06
Spiked Amount 250.000	Range 87 - 112		Recovery = 99.93%		

Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.63	85	446348	292.89 ng		96
3) Dichlorotetrafluoroethane	3.82	135	664778m	296.94 ng	#	48
4) Chloromethane	4.10	50	356068	253.83 ng		95
5) Vinyl chloride	4.30	62	357196	291.26 ng		98
6) Bromomethane	5.12	94	304371	261.08 ng	#	92
7) Chloroethane	5.25	64	251823	295.72 ng		98
8) Trichlorofluoromethane	5.73	101	1294340	276.82 ng		99
9) 1,1,2-Trichlorotrifluoroet	6.52	151	1102888	273.18 ng		81
10) 1,1-Dichloroethene	6.88	96	557386	270.11 ng		88
12) Methylene chloride	7.76	49	673624	273.31 ng		94
13) Carbon disulfide	7.89	76	1516712	269.10 ng		99
14) methyl-Tert-Butyl Ether	8.06	73	1045500	262.68 ng		99
15) trans-1,2-Dichloroethene	8.35	96	642925	269.97 ng		91
16) n-Hexane	8.46	57	610341	260.53 ng	#	1
17) 1,1-Dichloroethane	9.17	63	1038717	271.47 ng		98
18) cis-1,2-Dichloroethene	10.39	61	833306	271.78 ng		90
19) Chloroform	10.71	83	1264872	276.51 ng		98
20) Isooctane	11.67	57	2011970	266.68 ng		94
21) 1,1,1-Trichloroethane	11.57	97	1129465	271.05 ng		90
22) Carbon tetrachloride	12.12	117	1141727	270.34 ng		98
24) 1,2-Dichloroethane	12.40	62	604297	266.66 ng	#	97
25) 1,2-Dibromoethane	19.30	107	1083575	271.50 ng		100
27) Benzene	12.47	78	1548564	281.79 ng		97

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA02\M0903A\CM0903A.D Vial: 1
Acq On : 3 Sep 2002 8:47 Operator: BDH
Sample : VSTD050\ DAILY CALIBRATION CHECK Inst : MARILYN
Misc : Pi/Pf=1 MA154ABK 250ng Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 3 9:55 2002 Quant Results File: TO14S.RES

Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Fri Aug 23 10:36:24 2002
Response via : Initial Calibration
DataAcq Meth : TO14S

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
28)	Trichloroethene	13.79	130	868657	278.32 ng		93
29)	1,2-Dichloropropane	14.16	63	628224	270.76 ng		96
30)	Bromodichloromethane	14.69	83	1461138	277.00 ng		99
31)	cis-1,3-Dichloropropene	15.90	75	957569	271.68 ng		95
33)	Toluene	16.70	92	954966	274.11 ng	#	97
34)	trans-1,3-Dichloropropene	17.06	75	798811	269.03 ng		99
35)	1,1,2-Trichloroethane	17.46	97	628032	272.14 ng		96
37)	Tetrachloroethene	18.30	164	809833	272.10 ng		92
38)	Dibromochloromethane	18.78	127	1079032	272.65 ng	#	96
39)	Chlorobenzene	20.34	112	1336255	278.77 ng		91
40)	Ethylbenzene	20.43	106	511930	272.28 ng		97
41)	m,p-Xylene	20.63	106	1275189	556.52 ng		93
42)	o-Xylene	21.78	106	601216	276.70 ng		95
43)	Styrene	21.84	104	1027287	279.70 ng		95
44)	Bromoform	22.77	173	1135132	272.66 ng		99
45)	1,1,2,2-Tetrachloroethane	23.12	83	941183	264.80 ng		99
47)	1,4-Dichloro-2-butene	22.76	75	216260	258.89 ng		89
48)	4-Ethyltoluene	24.05	105	1384581	254.33 ng		100
49)	1,3,5-Trimethylbenzene	24.16	105	1368180m	326.65 ng	#	73
50)	2-Chlorotoluene	24.25	91	1535210	280.15 ng		97
51)	1,2,4-Trimethylbenzene	25.13	105	1194561	283.56 ng		98
52)	1,3-Dichlorobenzene	26.07	146	999953m	282.10 ng	#	94
53)	1,4-Dichlorobenzene	26.28	146	1041088	284.97 ng	#	94
54)	1,2-Dichlorobenzene	27.04	146	955099	289.88 ng	#	93
55)	1,2,4-Trichlorobenzene	30.18	180	675030	300.50 ng		99
56)	Napthalene	30.71	128	838042	263.19 ng	#	91
57)	Hexachlorobutadiene	30.41	225	511906	288.04 ng		99

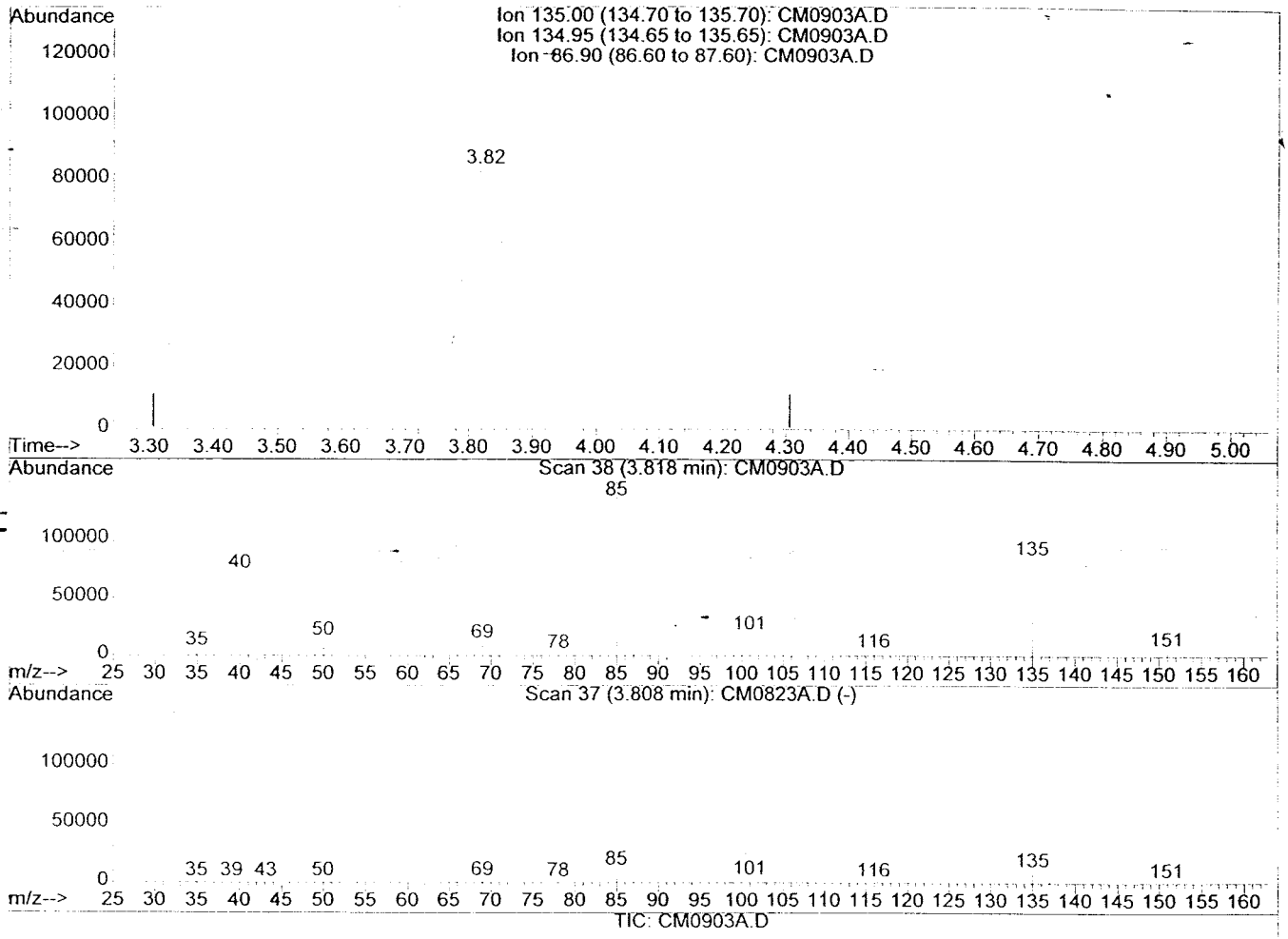
(#) = qualifier out of range (m) = manual integration

Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA02\M0903A\CM0903A.D
Acq On : 3 Sep 2002 8:47
Sample : VSTD050\ DAILY CALIBRATION CHECK
Misc : Pi/Pf=1 MA154ABK 250ng
MS Integration Params: rteint.p
Quant Time: Sep 3 9:19 2002

Vial: 1
Operator: BDH
Inst : MARILYN
Multiplr: 1.00
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Fri Aug 23 10:36:24 2002
Response via : Multiple Level Calibration



(3) Dichlorotetrafluoroethane

3.82min 207.22ng

response 463926

Ion	Exp%	Act%
135.00	100	100
134.95	56.30	100.00#
86.90	32.70	54.90#
0.00	0.00	0.00

before (tailing)

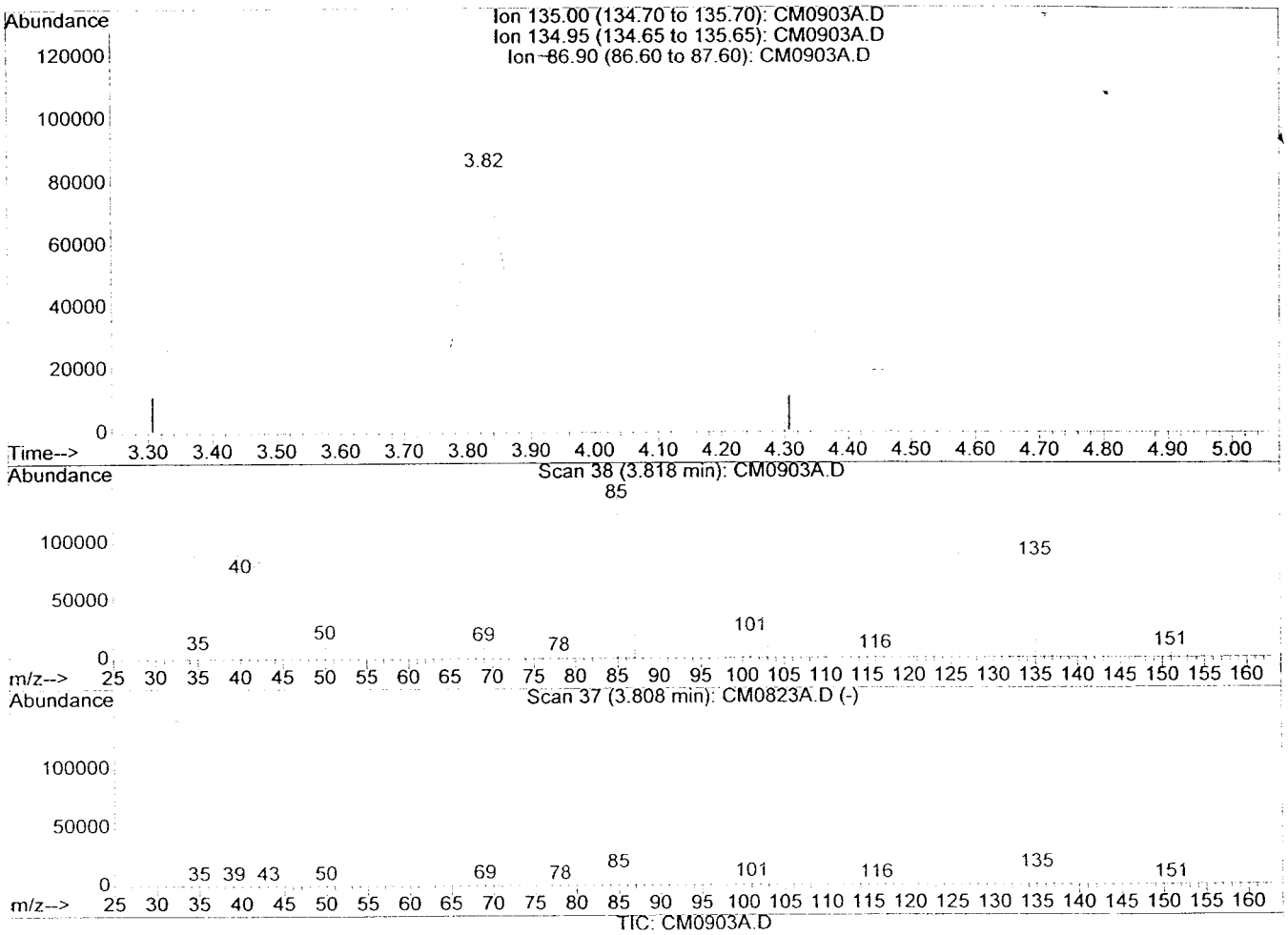
CM0903A.D TO14S.M Tue Sep 03 09:54:06 2002

Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA02\M0903A\CM0903A.D
Acq On : 3 Sep 2002 8:47
Sample : VSTD050\ DAILY CALIBRATION CHECK
Misc : Pi/Pf=1 MA154ABK 250ng
MS Integration Params: rteint.p
Quant Time: Sep 3 9:54 2002

Vial: 1
Operator: BDH
Inst : MARILYN
Multiplr: 1.00
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Fri Aug 23 10:36:24 2002
Response via : Multiple Level Calibration



(3) Dichlorotetrafluoroethane

3.82min 296.94ng m

response 664778

Ion	Exp%	Act%
135.00	100	100
134.95	56.30	69.79#
86.90	32.70	38.31
0.00	0.00	0.00

9-3-02

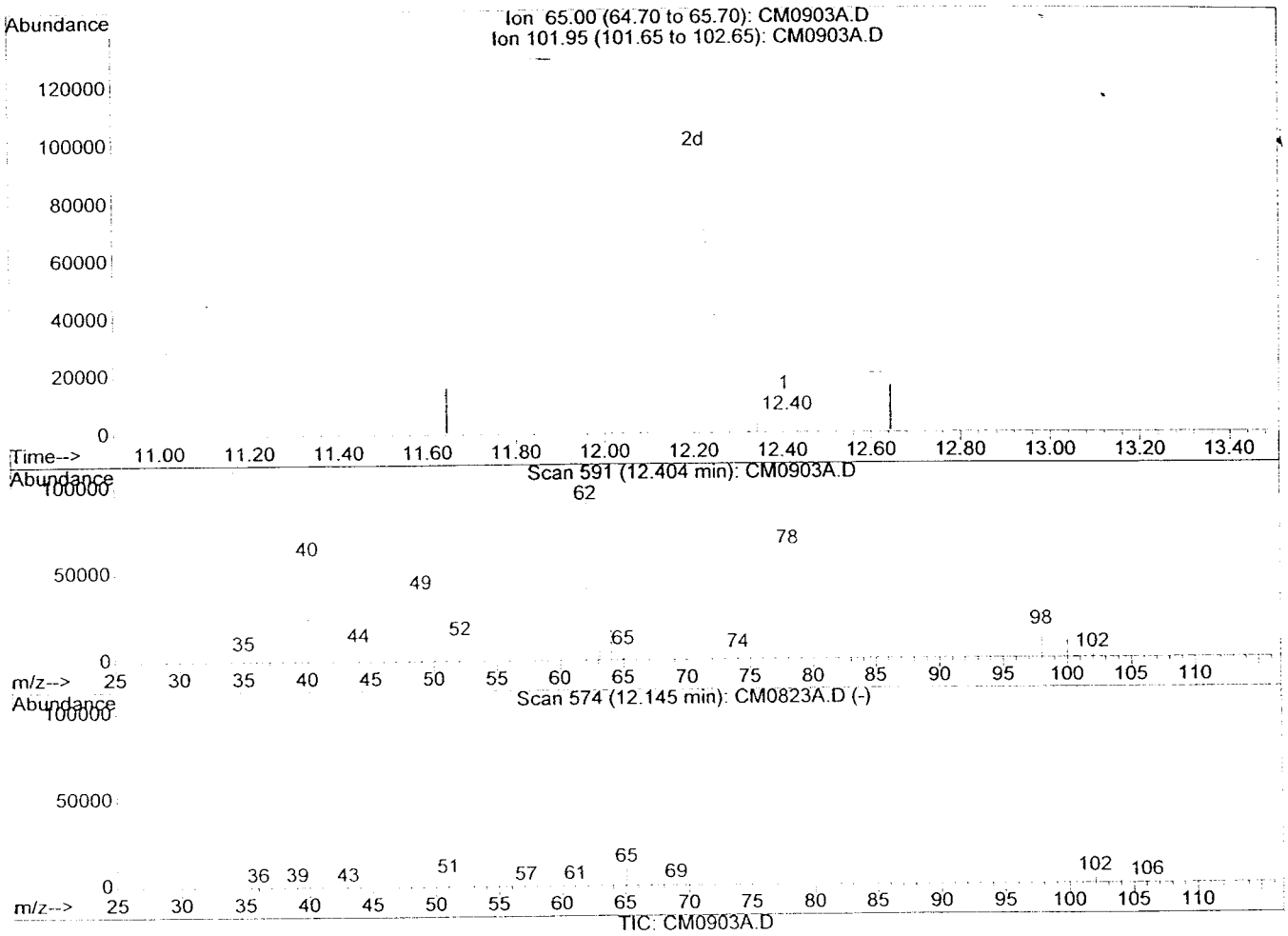
CM0903A.D TO14S.M Tue Sep 03 09:54:21 2002

Quantification Report (Qedit)

Data File : D:\HPCHEM\1\DATA02\M0903A\CM0903A.D
Acq On : 3 Sep 2002 8:47
Sample : VSTD050\ DAILY CALIBRATION CHECK
Misc : Pi/Pf=1 MA154ABK 250ng
MS Integration Params: rteint.p
Quant Time: Sep 3 9:54 2002

Vial: 1
Operator: BDH
Inst : MARILYN
Multiplr: 1.00
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Fri Aug 23 10:36:24 2002
Response via : Multiple Level Calibration



(23) 1,2-Dichloroethane d4 SURR#1 (S)

12.40min 13.71ng

response 28482

Ion	Exp%	Act%
65.00	100	100
101.95	22.40	25.94
0.00	0.00	0.00
0.00	0.00	0.00

(not found (missed peak))

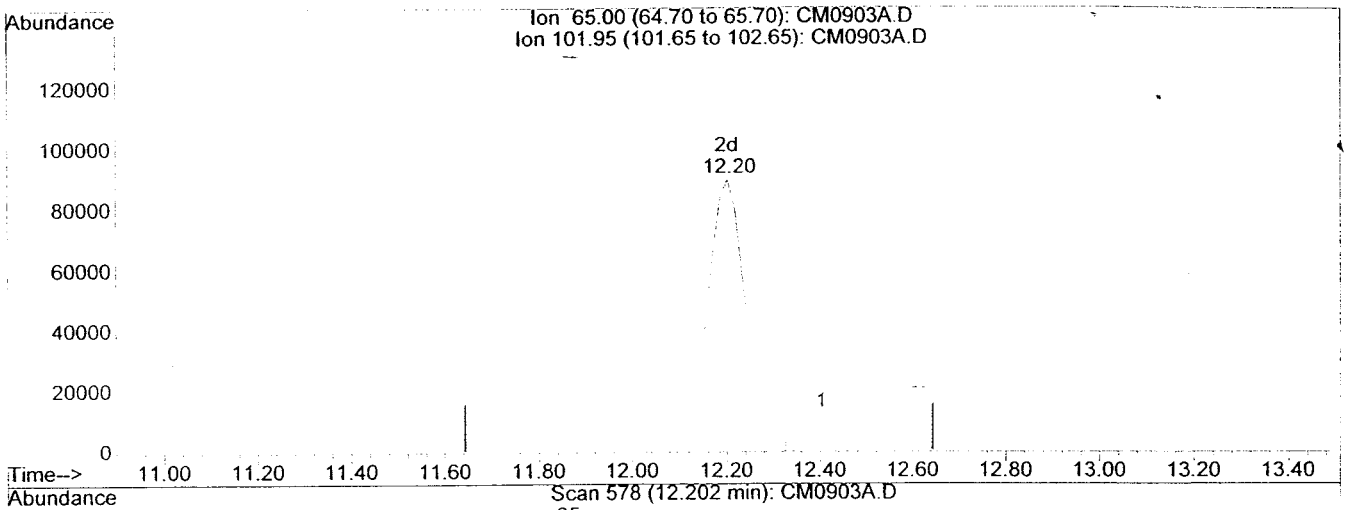
CM0903A.D TO14S.M Tue Sep 03 09:54:40 2002

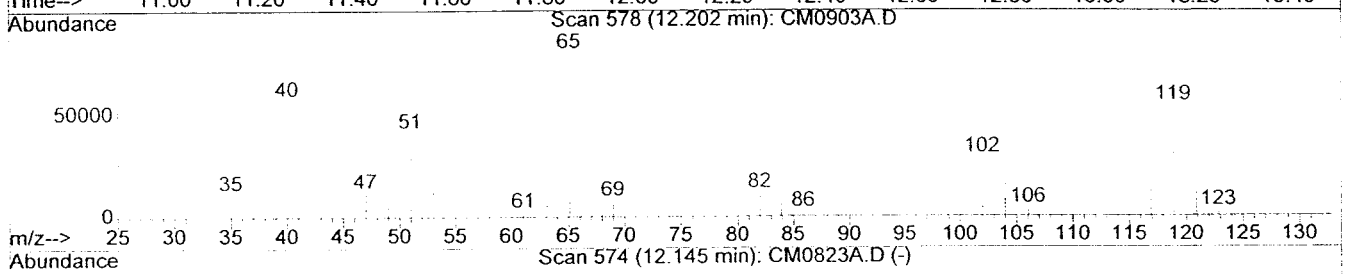
Quantitation Report (Qedit)

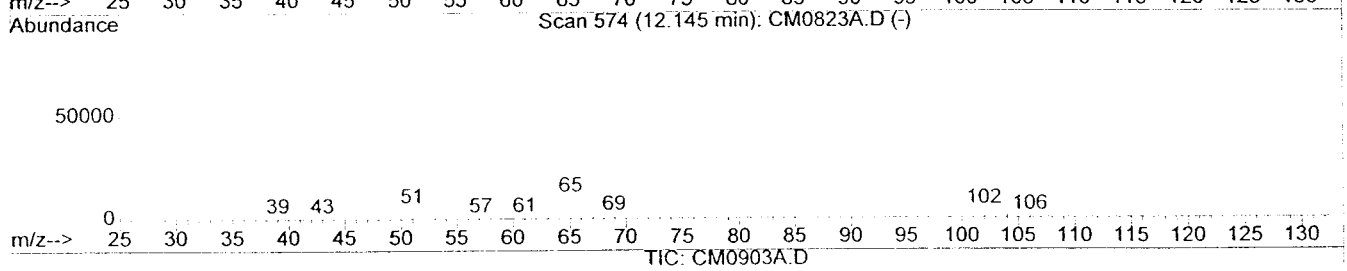
Data File : D:\HPCHEM\1\DATA02\M0903A\CM0903A.D
Acq On : 3 Sep 2002 8:47
Sample : VSTD050\ DAILY CALIBRATION CHECK
Misc : Pi/Pf=1 MA154ABK 250ng
MS Integration Params: rteint.p
Quant Time: Sep 3 9:54 2002

Vial: 1
Operator: BDH
Inst : MARILYN
Multiplr: 1.00
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Fri Aug 23 10:36:24 2002
Response via : Multiple Level Calibration







TIC: CM0903A.D

(23) 1,2-Dichloroethane d4 SURR#1 (S)

12.20min 246.12ng m

response 511297

Ion	Exp%	Act%
65.00	100	100
101.95	22.40	1.44#
0.00	0.00	0.00
0.00	0.00	0.00

after
BDH 9-3-02

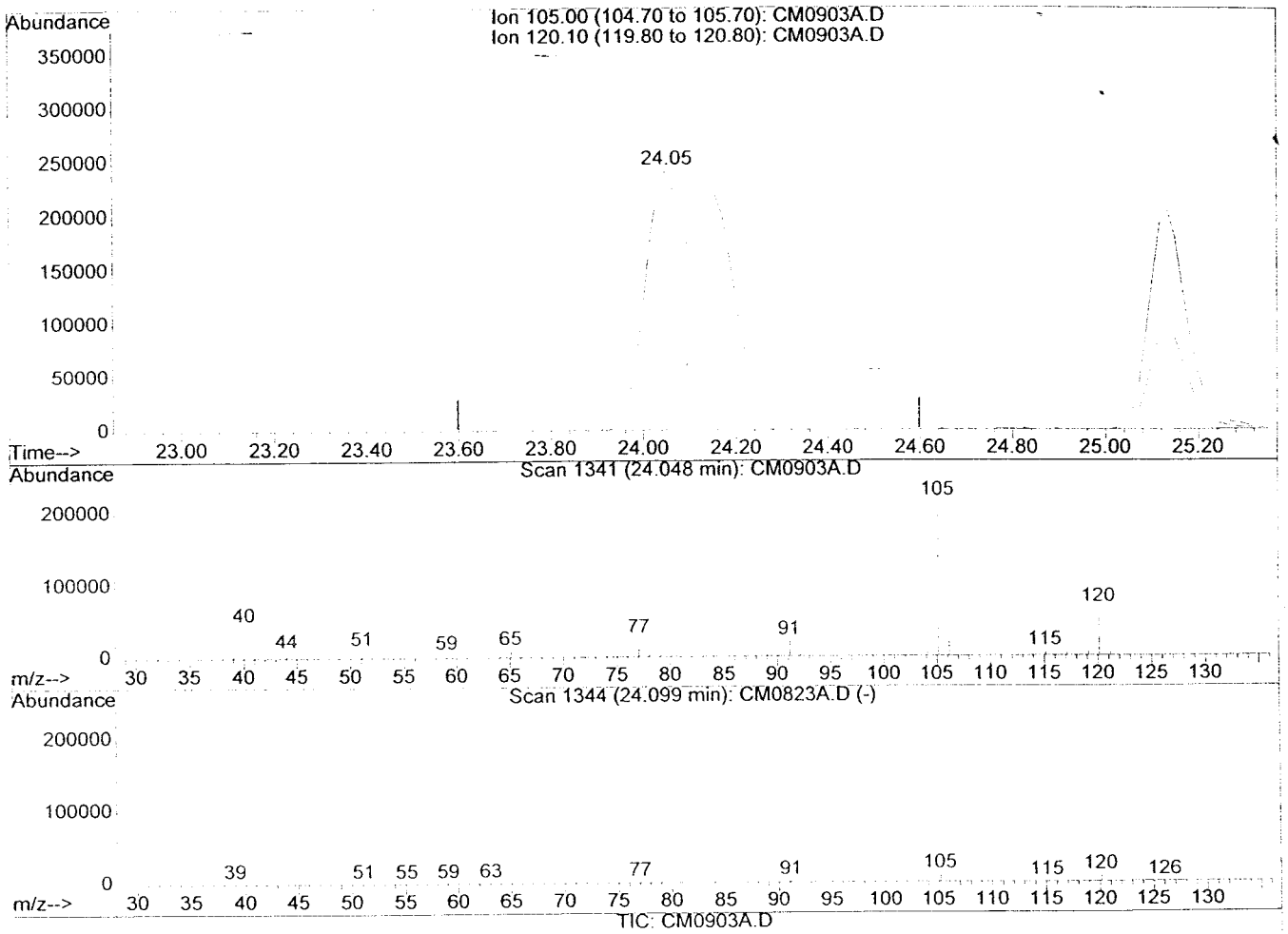
CM0903A.D TO14S.M Tue Sep 03 09:54:47 2002

Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA02\M0903A\CM0903A.D
Acq On : 3 Sep 2002 8:47
Sample : VSTD050\ DAILY CALIBRATION CHECK
Misc : Pi/Pf=1 MA154ABK 250ng
MS Integration Params: rteint.p
Quant Time: Sep 3 9:54 2002

Vial: 1
Operator: BDH
Inst : MARILYN
Multiplr: 1.00
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Fri Aug 23 10:36:24 2002
Response via : Multiple Level Calibration



(49) 1,3,5-Trimethylbenzene

24.05min 330.57ng

response 1384581

Ion	Exp%	Act%
105.00	100	100
120.10	46.70	29.02#
0.00	0.00	0.00
0.00	0.00	0.00

before (wrong peak)

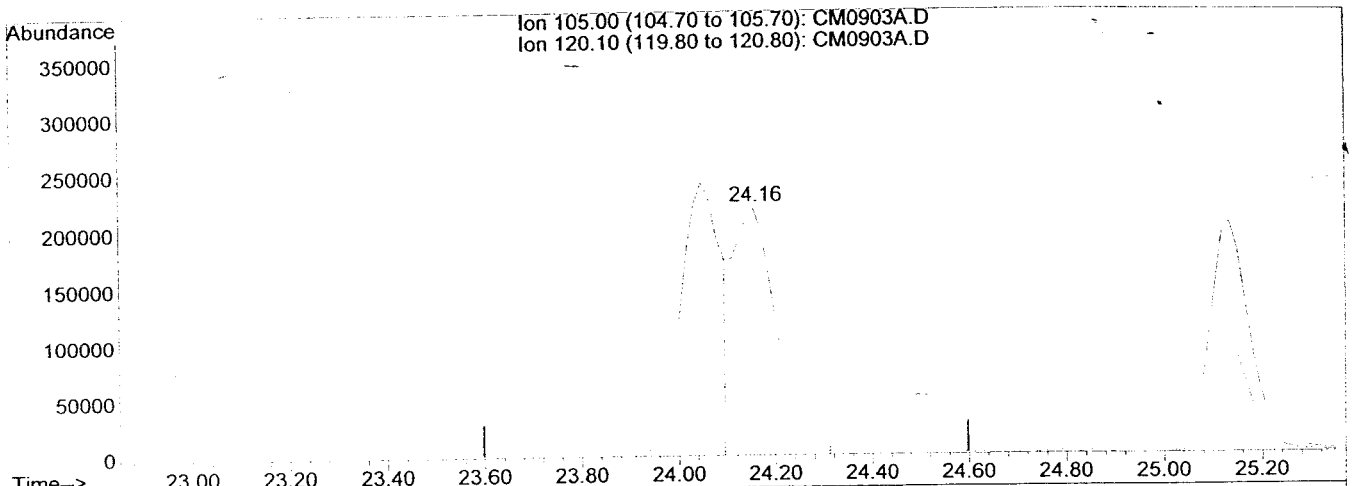
CM0903A.D TO14S.M Tue Sep 03 09:55:14 2002

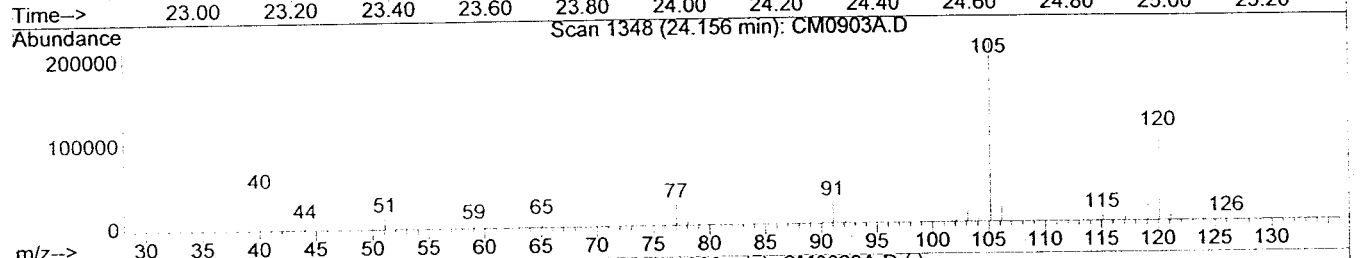
Quantification Report (Qedit)

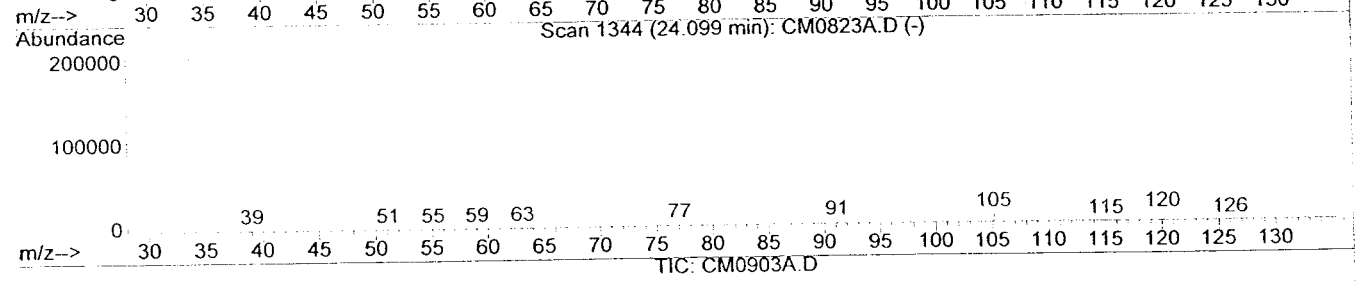
Data File : D:\HPCHEM\1\DATA02\M0903A\CM0903A.D
Acq On : 3 Sep 2002 8:47
Sample : VSTD050\ DAILY CALIBRATION CHECK
Misc : Pi/Pf=1 MA154ABK 250ng
MS Integration Params: rteint.p
Quant Time: Sep 3 9:55 2002

Vial: 1
Operator: BDH
Inst : MARILYN
Multiplr: 1.00
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Fri Aug 23 10:36:24 2002
Response via : Multiple Level Calibration







TIC: CM0903A.D

(49) 1,3,5-Trimethylbenzene

24.16min 326.65ng m

response 1368180

Ion	Exp%	Act%
105.00	100	100
120.10	46.70	29.37#
0.00	0.00	0.00
0.00	0.00	0.00

after
BH
9/3/02

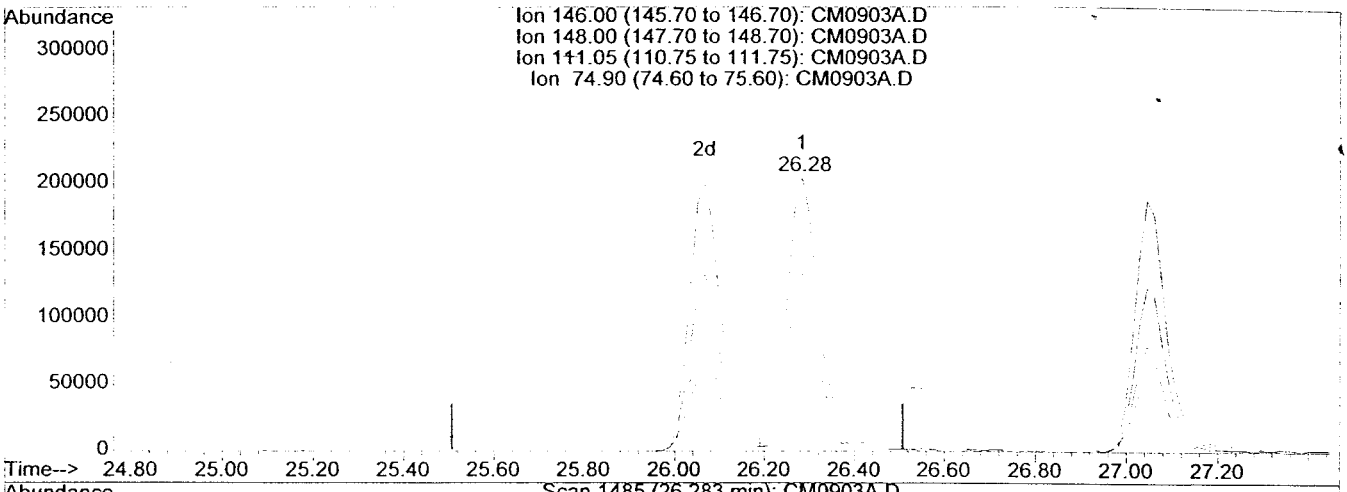
CM0903A.D TO14S.M Tue Sep 03 09:55:29 2002

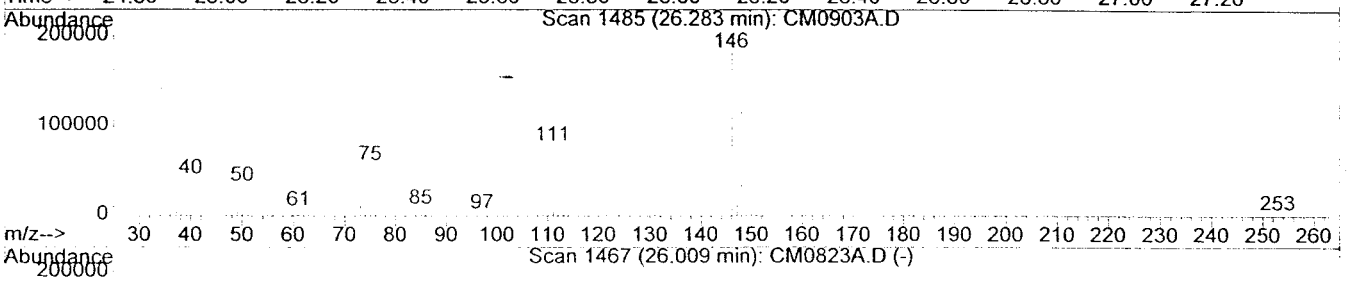
Quantitation Report (Qedit)

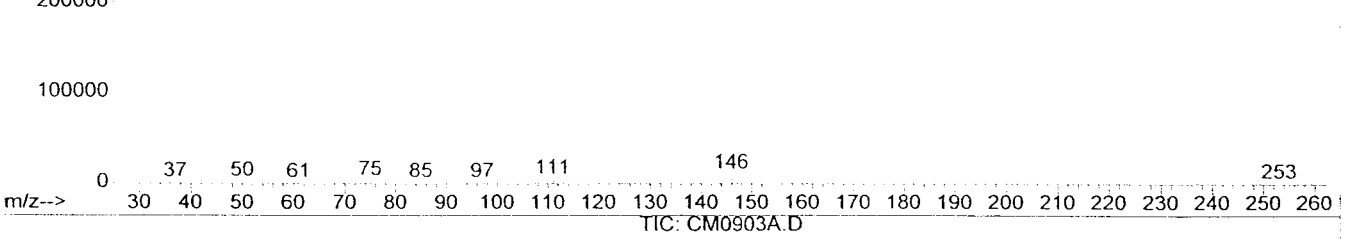
Data File : D:\HPCHEM\1\DATA02\M0903A\CM0903A.D
Acq On : 3 Sep 2002 8:47
Sample : VSTD050\ DAILY CALIBRATION CHECK
Misc : Pi/Pf=1 MA154ABK 250ng
MS Integration Params: rteint.p
Quant Time: Sep 3 9:55 2002

Vial: 1
Operator: BDH
Inst : MARILYN
Multiplr: 1.00
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Fri Aug 23 10:36:24 2002
Response via : Multiple Level Calibration







TIC: CM0903A.D

(52) 1,3-Dichlorobenzene

26.28min 269.15ng

response 954041

Ion	Exp%	Act%
146.00	100	100
148.00	66.40	65.41
111.05	44.40	38.54
74.90	35.60	28.49

before (wrong peak)

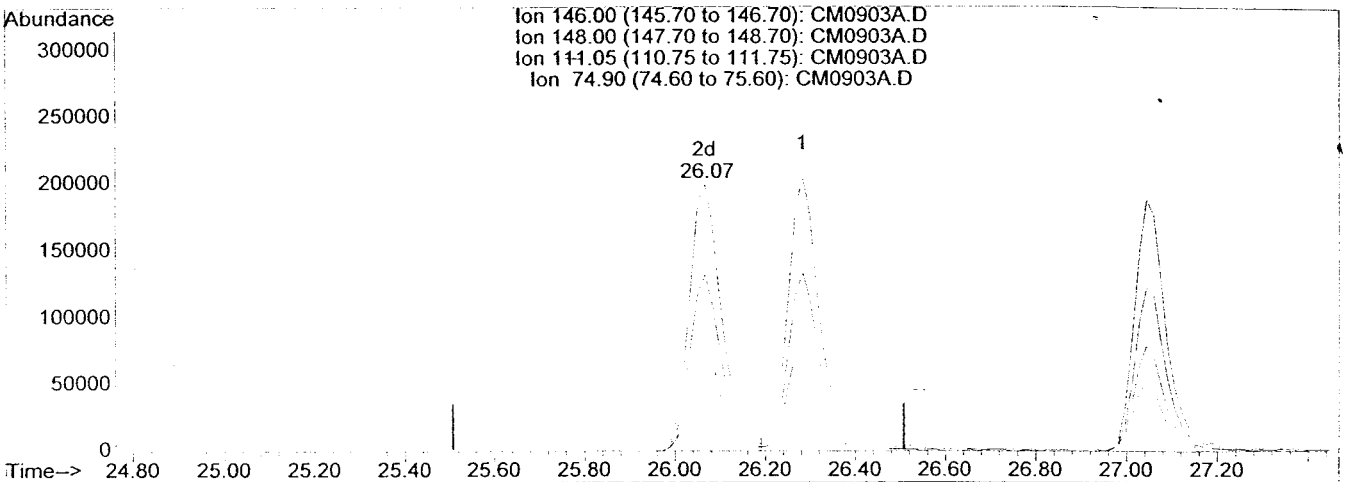
CM0903A.D TO14S.M Tue Sep 03 09:55:38 2002

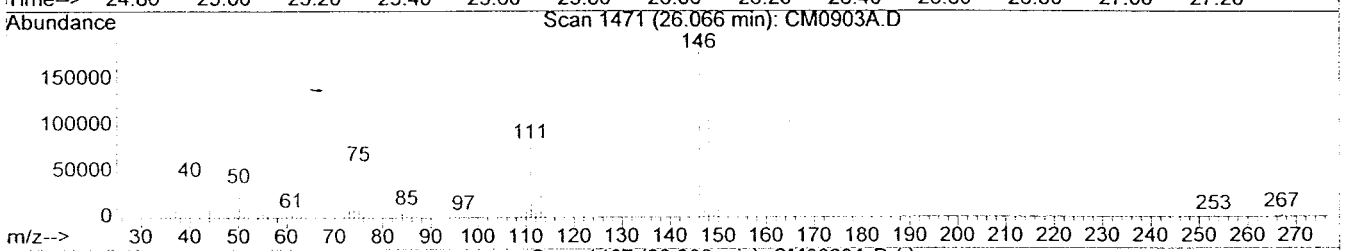
Quantitation Report (Qedit)

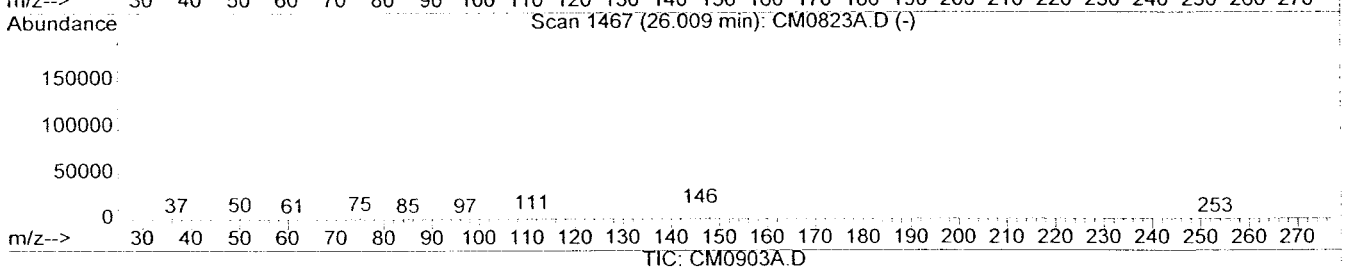
Data File : D:\HPCHEM\1\DATA02\M0903A\CM0903A.D
Acq On : 3 Sep 2002 8:47
Sample : VSTD050\ DAILY CALIBRATION CHECK
Misc : Pi/Pf=1 MA154ABK 250ng
MS Integration Params: rteint.p
Quant Time: Sep 3 9:55 2002

Vial: 1
Operator: BDH
Inst : MARILYN
Multiplr: 1.00
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Fri Aug 23 10:36:24 2002
Response via : Multiple Level Calibration







TIC: CM0903A.D

(52) 1,3-Dichlorobenzene

26.07min 282.10ng m

response 999953

Ion	Exp%	Act%
146.00	100	100
148.00	66.40	62.41
111.05	44.40	36.77
74.90	35.60	27.18#

after
BDH
9-3-02

CM0903A.D TO14S.M Tue Sep 03 09:55:44 2002

Quantification Report

Data File : D:\HPCHEM\1\DATA02\M0903A\CM0903A.D
Acq On : 3 Sep 2002 8:47
Sample : VSTD050\ DAILY CALIBRATION CHECK
Misc : Pi/Pf=1 MA154ABK 250ng
MS Integration Params: rteint.p
Quant Time: Sep 3 9:19 2002

Vial: 1
Operator: BDH
Inst : MARILYN
Multiplr: 1.00

Quant Results File: TO14S.RES

Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Fri Aug 23 10:36:24 2002
Response via : Initial Calibration
DataAcq Meth : TO14S
IS QA File : D:\HPCHEM\1\DATA02\M0823A\CM0823A.D (23 Aug 2002 9:59)

original

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) Bromochloromethane IS#1	11.07	128	466027	250.00	ng	0.04 98.93%
26) 1,4-Difluorobenzene IS#2	12.99	114	1954517	250.00	ng	0.04 95.08%
36) Chlorobenzene-d5 IS#3	20.24	117	1361909	250.00	ng	0.06 94.52%

System Monitoring Compounds

23) 1,2-Dichloroethane d4 SURR	12.40	65	28482	13.71	ng	0.26
Spiked Amount 250.000 Range 61 - 140 Recovery = 5.48%#						
32) Toluene-d8 SURR#2	16.52	98	1439112	249.44	ng	0.06
Spiked Amount 250.000 Range 90 - 109 Recovery = 99.78%						
46) 4-Bromofluorobenzene SURR#	23.36	95	1052121	249.83	ng	0.06
Spiked Amount 250.000 Range 87 - 112 Recovery = 99.93%						

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.63	85	446348	292.89	ng	96
3) Dichlorotetrafluoroethane	3.82	135	463926	207.22	ng #	48
4) Chloromethane	4.10	50	356068	253.83	ng	95
5) Vinyl chloride	4.30	62	357196	291.26	ng	98
6) Bromomethane	5.12	94	304371	261.08	ng #	92
7) Chloroethane	5.25	64	251823	295.72	ng	98
8) Trichlorofluoromethane	5.73	101	1294340	276.82	ng	99
9) 1,1,2-Trichlorotrifluoroet	6.52	151	1102888	273.18	ng	81
10) 1,1-Dichloroethene	6.88	96	557386	270.11	ng	88
12) Methylene chloride	7.76	49	673624	273.31	ng	94
13) Carbon disulfide	7.89	76	1516712	269.10	ng	99
14) methyl-Tert-Butyl Ether	8.06	73	1045500	262.68	ng	99
15) trans-1,2-Dichloroethene	8.35	96	642925	269.97	ng	91
16) n-Hexane	8.46	57	610341	260.53	ng #	1
17) 1,1-Dichloroethane	9.17	63	1038717	271.47	ng	98
18) cis-1,2-Dichloroethene	10.39	61	833306	271.78	ng	90
19) Chloroform	10.71	83	1264872	276.51	ng	98
20) Isooctane	11.67	57	2011970	266.68	ng	94
21) 1,1,1-Trichloroethane	11.57	97	1129465	271.05	ng	90
22) Carbon tetrachloride	12.12	117	1141727	270.34	ng	98
24) 1,2-Dichloroethane	12.40	62	604297	266.66	ng #	97
25) 1,2-Dibromoethane	19.30	107	1083575	271.50	ng	100
27) Benzene	12.47	78	1548564	281.79	ng	97

(#) = qualifier out of range (m) = manual integration
CM0903A.D TO14S.M Tue Sep 03 09:19:39 2002

Data File : D:\HPCHEM\1\DATA02\M0903A\CM0903A.D Vial: 1
Acq On : 3 Sep 2002 8:47 Operator: BDH
Sample : VSTD050\ DAILY CALIBRATION CHECK Inst : MARILYN
Misc : Pi/Pf=1 MA154ABK 250ng Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 3 9:19 2002 Quant Results File: TO14S.RES

Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Fri Aug 23 10:36:24 2002
Response via : Initial Calibration
DataAcq Meth : TO14S

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
28)	Trichloroethene	13.79	130	868657	278.32 ng		93
29)	1,2-Dichloropropane	14.16	63	628224	270.76 ng		96
30)	Bromodichloromethane	14.69	83	1461138	277.00 ng		99
31)	cis-1,3-Dichloropropene	15.90	75	957569	271.68 ng		95
33)	Toluene	16.70	92	954966	274.11 ng	#	97
34)	trans-1,3-Dichloropropene	17.06	75	798811	269.03 ng		99
35)	1,1,2-Trichloroethane	17.46	97	628032	272.14 ng		96
37)	Tetrachloroethene	18.30	164	809833	272.10 ng		92
38)	Dibromochloromethane	18.78	127	1079032	272.65 ng	#	96
39)	Chlorobenzene	20.34	112	1336255	278.77 ng		91
40)	Ethylbenzene	20.43	106	511930	272.28 ng		97
41)	m,p-Xylene	20.63	106	1275189	556.52 ng		93
42)	o-Xylene	21.78	106	601216	276.70 ng		95
43)	Styrene	21.84	104	1027287	279.70 ng		95
44)	Bromoform	22.77	173	1135132	272.66 ng		99
45)	1,1,2,2-Tetrachloroethane	23.12	83	941183	264.80 ng		99
47)	1,4-Dichloro-2-butene	22.76	75	216260	258.89 ng		89
48)	4-Ethyltoluene	24.05	105	1384581	254.33 ng		100
49)	1,3,5-Trimethylbenzene	24.05	105	1384581	330.57 ng	#	73
50)	2-Chlorotoluene	24.25	91	1535210	280.15 ng		97
51)	1,2,4-Trimethylbenzene	25.13	105	1194561	283.56 ng		98
52)	1,3-Dichlorobenzene	26.28	146	954041	269.15 ng		94
53)	1,4-Dichlorobenzene	26.28	146	1041088	284.97 ng	#	94
54)	1,2-Dichlorobenzene	27.04	146	955099	289.88 ng	#	93
55)	1,2,4-Trichlorobenzene	30.18	180	675030	300.50 ng		99
56)	Napthalene	30.71	128	838042	263.19 ng	#	91
57)	Hexachlorobutadiene	30.41	225	511906	288.04 ng		99

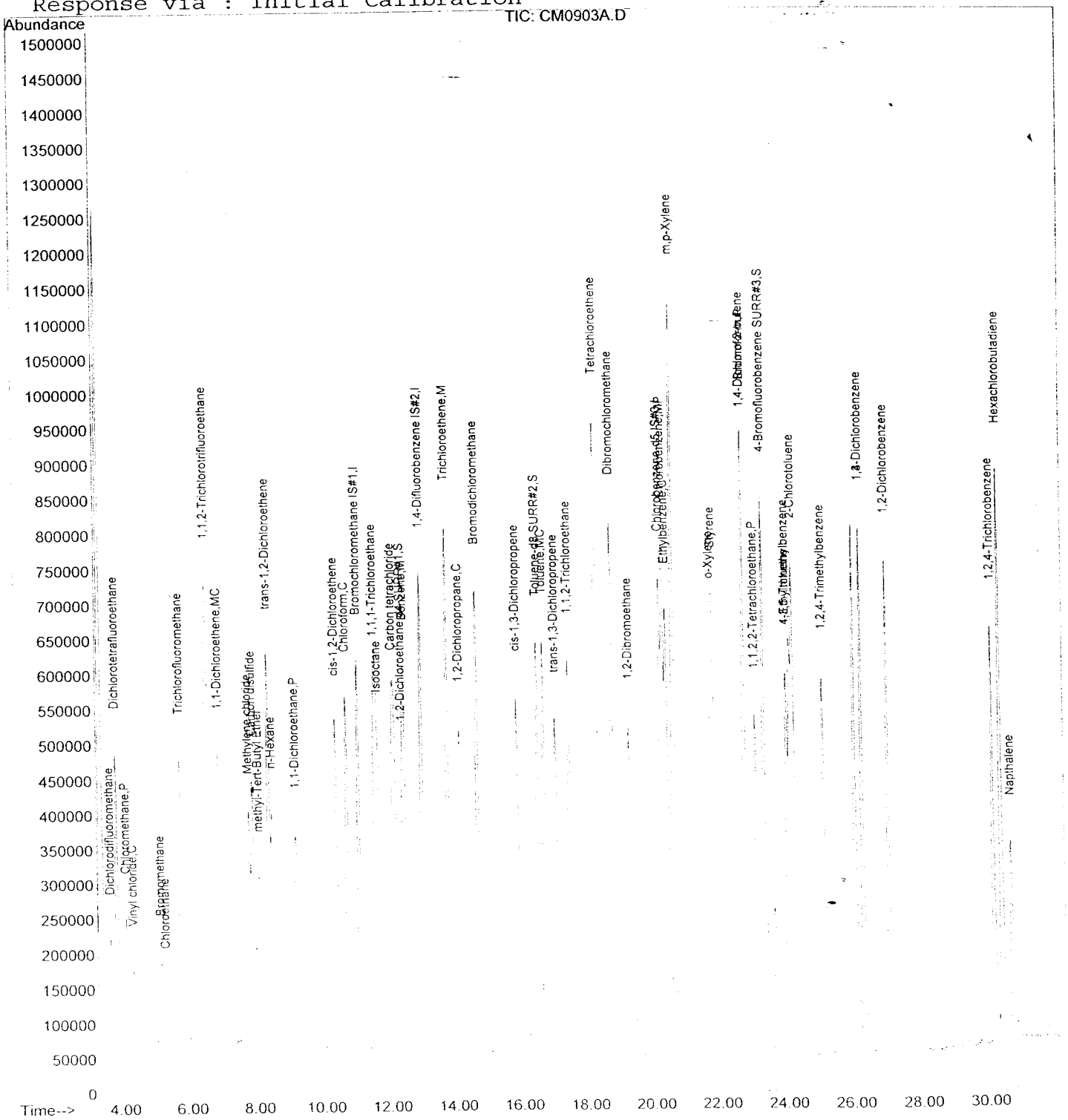
(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA02\M0903A\CM0903A.D
Acq On : 3 Sep 2002 8:47
Sample : VSTD050\ DAILY CALIBRATION CHECK
Misc : Pi/Pf=1 MA154ABK 250ng
MS Integration Params: rteint.p
Quant Time: Sep 3 9:19 2002

Vial: 1
Operator: BDH
Inst : MARILYN
Multiplr: 1.00

Quant Results File: TO14S.RES

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Fri Aug 23 10:36:24 2002
Response via : Initial Calibration



Quantitation Report

Data File : D:\HPCHEM\1\DATA02\M0903A\MA154ABK.D
Acq On : 3 Sep 2002 9:25
Sample : VBLKMA\ DAILY METHOD BLANK
Misc : Pi/Pf=1 MA154ABK
MS Integration Params: rteint.p
Quant Time: Sep 3 9:57 2002

Vial: 2
Operator: BDH
Inst : MARILYN
Multiplr: 1.00

Quant Results File: TO14S.RES

Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Tue Sep 03 09:55:57 2002
Response via : Initial Calibration
DataAcq Meth : TO14S
IS QA File : D:\HPCHEM\1\DATA02\M0903A\CM0903A.D (3 Sep 2002 8:47)

original BH 9/3/02

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) Bromochloromethane IS#1	11.07	128	464056	250.00 ng	0.00 99.58%
26) 1,4-Difluorobenzene IS#2	13.00	114	1898159	250.00 ng	0.00 97.12%
36) Chlorobenzene-d5 IS#3	20.23	117	1307484	250.00 ng	0.00 96.00%

System Monitoring Compounds					
23) 1,2-Dichloroethane d4 SURR	12.21	65	501619	242.49 ng	0.00
Spiked Amount 250.000	Range 61 - 140		Recovery = 97.00%		
32) Toluene-d8 SURR#2	16.52	98	1375032	245.41 ng	0.00
Spiked Amount 250.000	Range 90 - 109		Recovery = 98.16%		
46) 4-Bromofluorobenzene SURR#	23.35	95	1032498	255.38 ng	0.00
Spiked Amount 250.000	Range 87 - 112		Recovery = 102.15%		

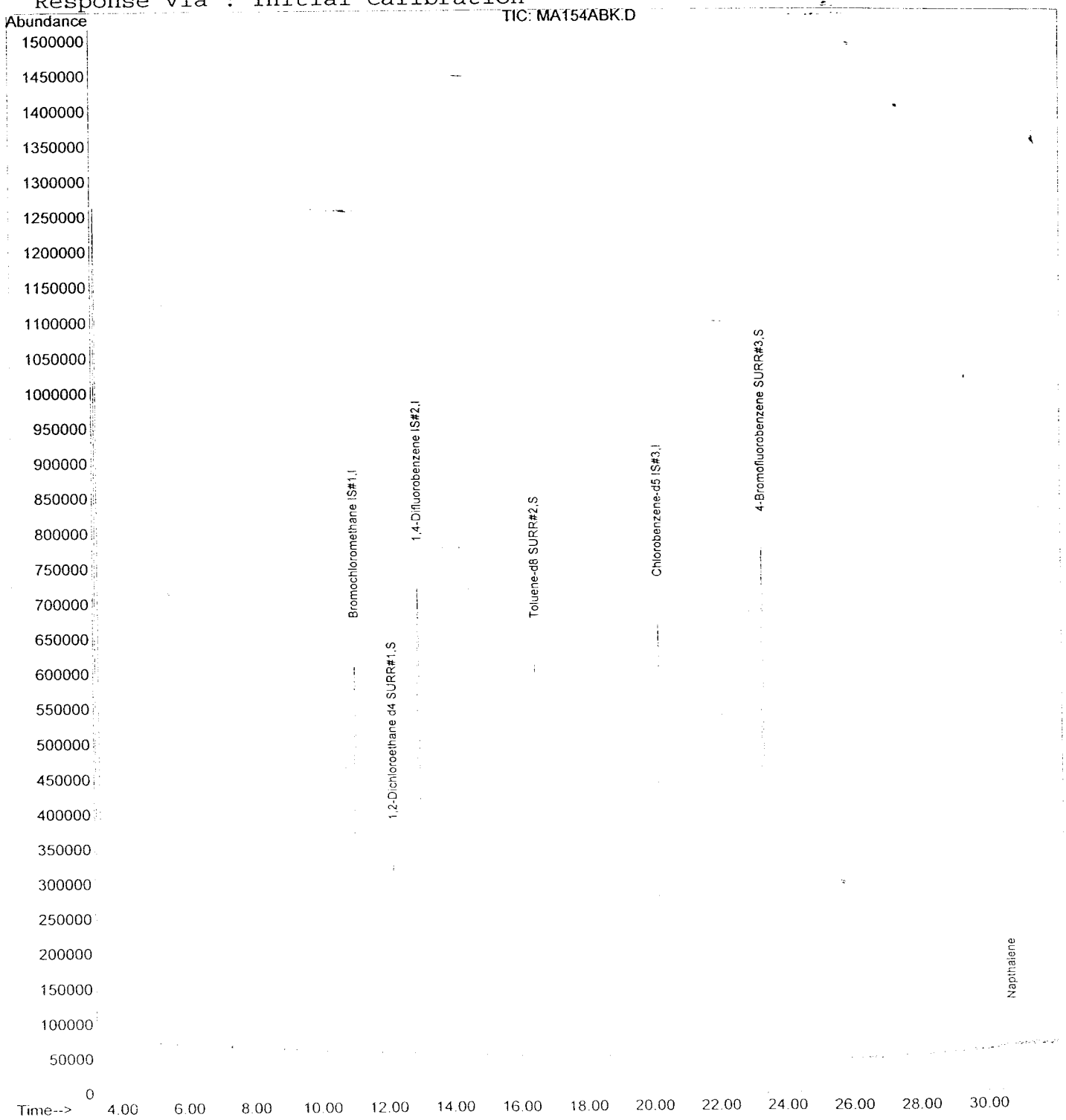
Target Compounds					Qvalue
56) Napthalene	30.70	128	2193	0.72 ng NSI #	64

(#) = qualifier out of range (m) = manual integration
MA154ABK.D TO14S.M Tue Sep 03 09:57:29 2002

Data File : D:\HPCHEM\1\DATA02\M0903A\MA154ABK.D
Acq On : 3 Sep 2002 9:25
Sample : VBLKMA\ DAILY METHOD BLANK
Misc : Pi/Pf=1 MA154ABK
MS Integration Params: rteint.p
Quant Time: Sep 3 9:57 2002

Vial: 2
Operator: BDH
Inst : MARILYN
Multiplr: 1.00
Quant Results File: TO14S.RES

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Tue Sep 03 09:55:57 2002
Response via : Initial Calibration



Quantification Report

Data File : D:\HPCHEM\1\DATA02\M0903A\MA154LCS.D
Acq On : 3 Sep 2002 10:03
Sample : VLCSMA\ BATCH #154 LCS 50ppb/250ng
Misc : Pi/Pf=1 MA154ABK 2nd SOURCE
MS Integration Params: rteint.p
Quant Time: Sep 3 10:37 2002

Vial: 3
Operator: BDH
Inst : MARILYN
Multiplr: 1.00

Quant Results File: TO14S.RES

Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Tue Sep 03 09:55:57 2002
Response via : Initial Calibration
DataAcq Meth : TO14S
IS QA File : D:\HPCHEM\1\DATA02\M0903A\CM0903A.D (3 Sep 2002 8:47)

BH 9/3/02

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) Bromochloromethane IS#1	11.09	128	434263	250.00	ng	0.02 93.18%
26) 1,4-Difluorobenzene IS#2	13.01	114	1789711	250.00	ng	0.02 91.57%
36) Chlorobenzene-d5 IS#3	20.25	117	1208180	250.00	ng	0.00 88.71%

System Monitoring Compounds						
23) 1,2-Dichloroethane d4 SURR	12.20	65	482246	249.12	ng	0.00
Spiked Amount 250.000 Range 61 - 140 Recovery = 99.65%						
32) Toluene-d8 SURR#2	16.52	98	1278287	241.97	ng	0.00
Spiked Amount 250.000 Range 90 - 109 Recovery = 96.79%						
46) 4-Bromofluorobenzene SURR#	23.38	95	939685	251.53	ng	0.02
Spiked Amount 250.000 Range 87 - 112 Recovery = 100.61%						

Target Compounds						Qvalue
10) 1,1-Dichloroethene	6.90	96	480464	249.86	ng	88
27) Benzene	12.48	78	1330484	264.40	ng	97
28) Trichloroethene	13.79	130	757740	265.14	ng	93
33) Toluene	16.72	92	834960	261.73	ng #	97
39) Chlorobenzene	20.36	112	1150332	270.52	ng #	84

(#) = qualifier out of range (m) = manual integration
MA154LCS.D TO14S.M Tue Sep 03 10:38:06 2002

Quantitation Report

Data File : D:\HPCHEM\1\DATA02\M0903A\MA154LCS.D
Acq On : 3 Sep 2002 10:03
Sample : VLCSMA\ BATCH #154 LCS 50ppb/250ng
Misc : Pi/Pf=1 MA154ABK 2nd SOURCE
MS Integration Params: rteint.p
Quant Time: Sep 3 10:36 2002

Vial: 3
Operator: BDH
Inst : MARILYN
Multiplr: 1.00

Quant Results File: TO14S.RES

Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Tue Sep 03 09:55:57 2002
Response via : Initial Calibration
DataAcq Meth : TO14S
IS QA File : D:\HPCHEM\1\DATA02\M0903A\CM0903A.D (3 Sep 2002 8:47)

orig.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) Bromochloromethane IS#1	11.09	128	434263	250.00 ng	0.02 93.18%
26) 1,4-Difluorobenzene IS#2	13.01	114	1789711	250.00 ng	0.02 91.57%
36) Chlorobenzene-d5 IS#3	20.25	117	1208180	250.00 ng	0.00 88.71%

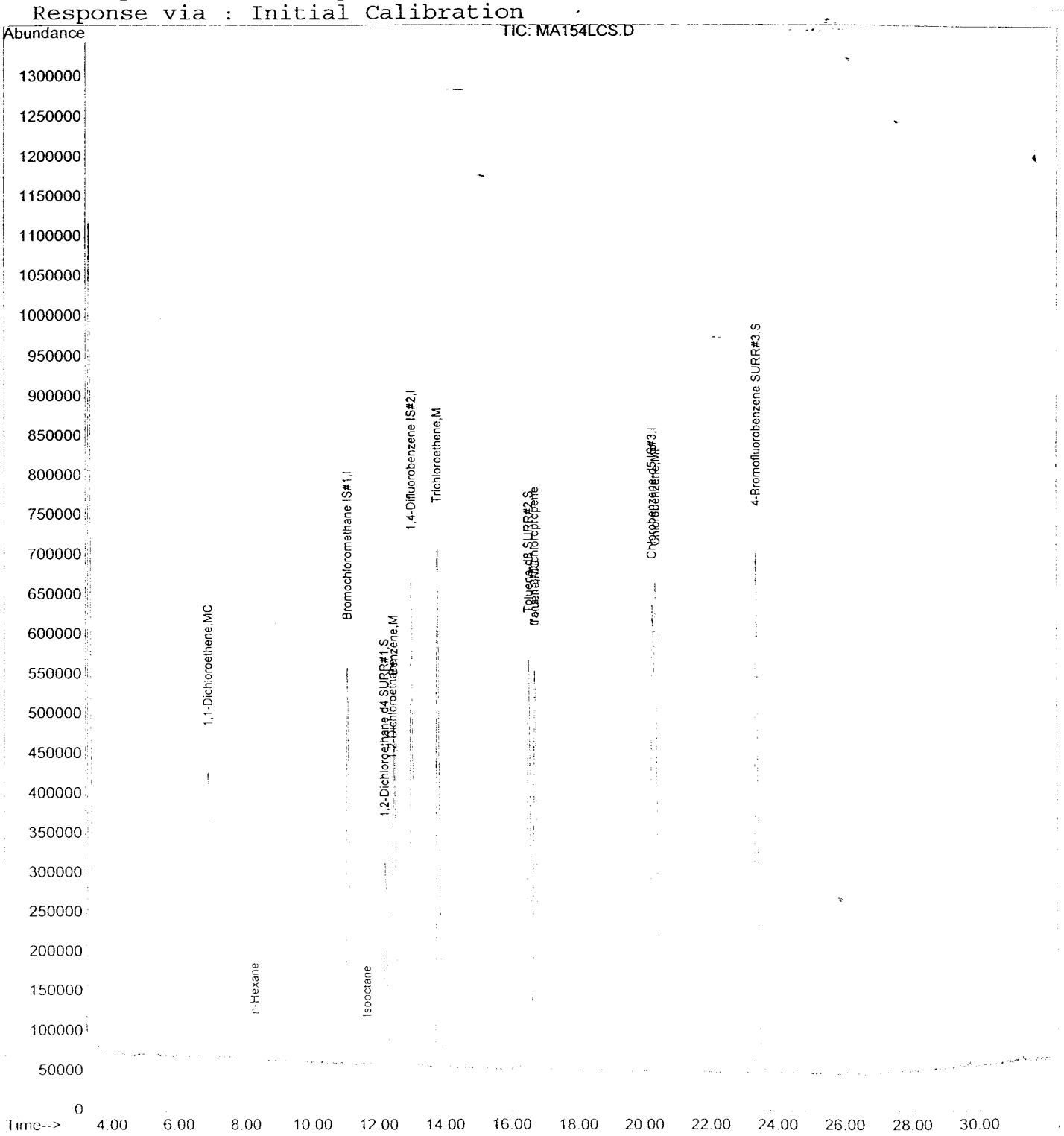
System Monitoring Compounds					
23) 1,2-Dichloroethane d4 SURR	12.20	65	482246	249.12 ng	0.00
Spiked Amount 250.000 Range 61 - 140 Recovery = 99.65%					
32) Toluene-d8 SURR#2	16.52	98	1278287	241.97 ng	0.00
Spiked Amount 250.000 Range 90 - 109 Recovery = 96.79%					
46) 4-Bromofluorobenzene SURR#	23.38	95	939685	251.53 ng	0.02
Spiked Amount 250.000 Range 87 - 112 Recovery = 100.61%					

Target Compounds						Qvalue
10) 1,1-Dichloroethene	6.90	96	480464	249.86 ng		88
16) n-Hexane	8.26	57	979	0.45 ng	#	1
20) Isooctane	11.65	57	933	0.13 ng	#	42
24) 1,2-Dichloroethane	12.45	62	6181	2.93 ng	#	49
27) Benzene	12.48	78	1330484	264.40 ng		97
28) Trichloroethene	13.79	130	757740	265.14 ng		93
33) Toluene	16.72	92	834960	261.73 ng	#	97
34) trans-1,3-Dichloropropene	16.71	75	1126	0.41 ng	#	1
39) Chlorobenzene	20.36	112	1150332	270.52 ng	#	84

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA02\M0903A\MA154LCS.D Vial: 3
Acq On : 3 Sep 2002 10:03 Operator: BDH
Sample : VLCSMA\ BATCH #154 LCS 50ppb/250ng Inst : MARILYN
Misc : Pi/Pf=1 MA154ABK 2nd SOURCE Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 3 10:36 2002 Quant Results File: TO14S.RES

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Tue Sep 03 09:55:57 2002
Response via : Initial Calibration



Quantitation Report

Data File : D:\HPCHEM\1\DATA02\M0903A\86041.D
Acq On : 3 Sep 2002 12:32
Sample : 062SVEEA08210227\ 8604-1 ST. 500mls
Misc : Pf/Pi=2.26 MA154ABK
MS Integration Params: rteint.p
Quant Time: Sep 3 14:12 2002

Vial: 1
Operator: BDH
Inst : MARILYN
Multiplr: ~~0.01~~ .005
Quant Results File: ~~TO14S~~.RES

Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Tue Sep 03 09:55:57 2002
Response via : Initial Calibration
DataAcq Meth : TO14S
IS QA File : D:\HPCHEM\1\DATA02\M0903A\CM0903A.D (3 Sep 2002 8:47)

BH 9/3/02

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) Bromochloromethane IS#1	11.08	128	352209	250.00 ng	0.02 75.58%
26) 1,4-Difluorobenzene IS#2	13.01	114	1643402	250.00 ng	0.02 84.08%
36) Chlorobenzene-d5 IS#3	20.23	117	1167032	250.00 ng	-0.02 85.69%

System Monitoring Compounds

23) 1,2-Dichloroethane d4 SURR	12.20	65	416006	264.97 ng	0.00
Spiked Amount 250.000	Range 61 - 140		Recovery = 105.99%		
32) Toluene-d8 SURR#2	16.50	98	1232847	254.14 ng	-0.02
Spiked Amount 250.000	Range 90 - 109		Recovery = 101.66%		
46) 4-Bromofluorobenzene SURR#	23.35	95	926903	256.85 ng	-0.02
Spiked Amount 250.000	Range 87 - 112		Recovery = 102.74%		

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
86041.D TO14S.M Tue Sep 03 14:13:10 2002

Quantitation Report

Data File : D:\HPCHEM\1\DATA02\M0903A\86041.D
Acq On : 3 Sep 2002 12:32
Sample : 062SVEEA08210227\ 8604-1 ST. 500mls
Misc : Pf/Pi=2.26 MA154ABK
MS Integration Params: rteint.p
Quant Time: Sep 3 13:04 2002

Vial: 1
Operator: BDH
Inst : MARILYN
Multiplr: 1.00

Quant Results File: TO14S.RES

Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Tue Sep 03 09:55:57 2002 original
Response via : Initial Calibration
DataAcq Meth : TO14S
IS QA File : D:\HPCHEM\1\DATA02\M0903A\CM0903A.D (3 Sep 2002 8:47)

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) Bromochloromethane IS#1	11.08	128	352209	250.00	ng	0.02 75.58%
26) 1,4-Difluorobenzene IS#2	13.01	114	1643402	250.00	ng	0.02 84.08%
36) Chlorobenzene-d5 IS#3	20.23	117	1167032	250.00	ng	-0.02 85.69%

System Monitoring Compounds

23) 1,2-Dichloroethane d4 SURR	12.20	65	416006	264.97	ng	0.00
Spiked Amount 250.000	Range 61 - 140		Recovery = 105.99%			
32) Toluene-d8 SURR#2	16.50	98	1232847	254.14	ng	-0.02
Spiked Amount 250.000	Range 90 - 109		Recovery = 101.66%			
46) 4-Bromofluorobenzene SURR#	23.35	95	926903	256.85	ng	-0.02
Spiked Amount 250.000	Range 87 - 112		Recovery = 102.74%			

Target Compounds						Qvalue
6) Bromomethane	5.15	94	4499	5.11	ng	# 9
12) Methylene chloride	7.79	49	995	0.53	ng	# 24
20) Isooctane	11.69	57	977	0.17	ng	# 42

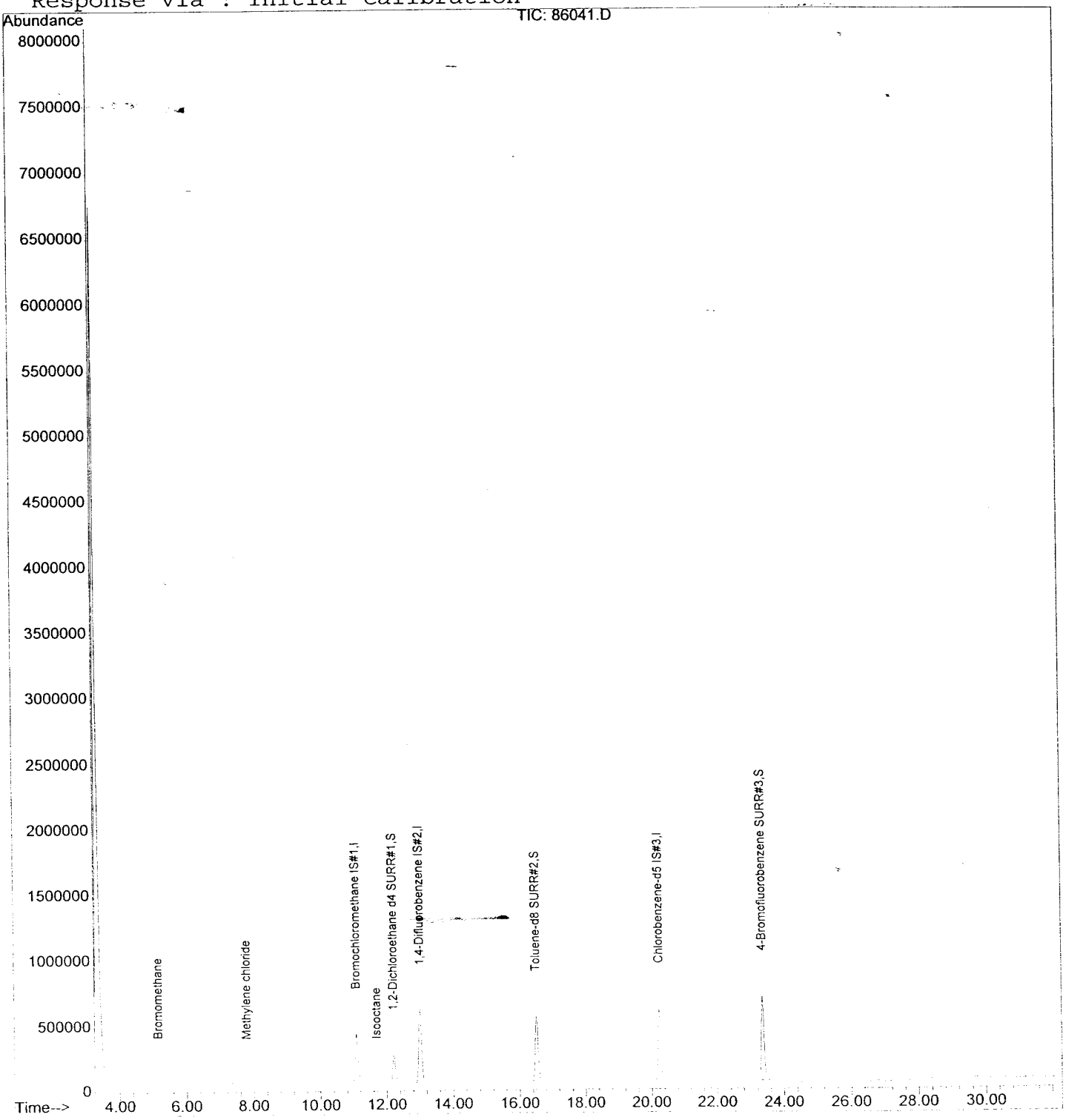
(#) = qualifier out of range (m) = manual integration
86041.D TO14S.M Tue Sep 03 13:04:24 2002

Quantitation Report

Data File : D:\HPCHEM\1\DATA02\M0903A\86041.D
Acq On : 3 Sep 2002 12:32
Sample : 062SVEEA08210227\ 8604-1 ST. 500mls
Misc : Pf/Pi=2.26 MA154ABK
MS Integration Params: rteint.p
Quant Time: Sep 3 13:04 2002

Vial: 1
Operator: BDH
Inst : MARILYN
Multiplr: 1.00
Quant Results File: TO14S.RES

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Tue Sep 03 09:55:57 2002
Response via : Initial Calibration



T014

STL - PENSACOLA, FL / GCMS

NEAT AND PURCHASED STOCK SOLUTIONS LOG BOOK

COMPOUND I.D. (SOL. NAME)	LOT #	SUPPLIER	PURITY (CONC.)	EXPIRATION DATE	~~DATE OPENED~~ # Ampules	LOG I.D.
8260 IS STD	A014811	Restek	2500 µg/ml	2/2003	10	P-VN 1-1
MTBE	A014918	Restek	2000 µg/ml	6/2003	2	P-VN 1-2
Iodomethane	LA83933	Supelco	2000 µg/ml	6/2000	2	P-VN 1-3
Carbon Disulfide	LA85600	Supelco	5000 µg/ml	10/2002	2	P-VN 1-4
8240 Matrix Spike	LA84166	Supelco	2500 µg/ml	7/2002	5	P-VN 1-5
APPIX-A Custom Mix	81859 ~~LA77217~~	Supelco	2000-6000 µg/ml	3/2000	1	8-VN 1-6
APPIX-B Custom Mix	LA81858	Supelco	2000 µg/ml	3/2000	1	8-VN 1-7
BP Short List std	LA87431	Supelco	5000 µg/ml	1/2001	3	8-VN 1-8
MTBE	LA83423	Supelco	2000 µg/ml	6/2002	1	P-VN 1-9
8260 SURR	A014205	Restek	2500 µg/ml	12/2002	10	P-VN 1-10
Chloroprene	P0587	Ultra	100 µg/ml	05/2001	1	8-VN 1-11
Isopropyl ether	LA87616	Supelco	5000 µg/ml	1/17/2001	3	P-VN 1-12
Equity 8260 keytone	LA86031	Supelco	2000 µg/ml	12/2001	6	P-VN 1-13
Equity Iodomethane	LA88752	Supelco	2000 µg/ml	5/2001	2	P-VN 1-14
Vinyl Acetate	A016259	Restek	10,000 µg/ml	4/2001	5	P-VN 1-15
Custom keytone Mix	A016258	Restek	2000/10000 µg/ml	4/2001	5	P-VN 1-16
8260 Matrix Custom	LA89925	Supelco	2000/10000	4/22/2001	3	P-VN 1-17
8260 Volatiles Kit	Various	Restek	2000/Various	10/2001 ← earliest	1	P-VN 1-18
MTBE	A015850	Restek	2000	10/2003	1	P-VN 1-19
Volatile Mix 4	LA84440	Supelco	2000	7/2001	1	P-VN 1-20
Carbon Disulfide	LA88605	Supelco	5000	10/2002	1	P-VN 1-21
1&2-Methyl-Naphthalene	LA90433	Supelco	2000	5/10/2001	3	P-VN 1-22
Isopropyl Ether	A016295	Restek	2000	5/12/2001	3	P-VN 1-23
1&2-Methyl Naphthalene	A016464	Restek	4000	5/15/2001	5	P-VN 1-24
Volatile Mix 6	LA89847	Supelco	2000	7/2001	2	P-VN 1-25
T014 Custom Mix	LA90724	Supelco	2500 µg/ml	7/1/2001	4	8-VN 1-26
VOA Short list matrix spike	LA89933	Supelco	1000 µg/ml	5/1/2003	5	8-VN 1-27

* To be used if neat standard is to be kept after container is opened.

STL – PENSACOLA, FL / GCMS

NEAT AND PURCHASED STOCK SOLUTIONS LOG BOOK

COMPOUND I.D. (SOL. NAME)	LOT #	SUPPLIER	PURITY (CONC.)	RC'D DATE	EXP. DATE	# of AMPULES	LOG I.D.
Iso-octane	B0110734	Accu STD	2000 µg/ml	11/16/01	12/31/02	5	8-VN 4-1
Custom 8260 short list	LA-95178	Supelco	5000 µg/ml	11/20/01	11/20/02	3	8-VN 4-2
Dichloroflurorethane		Pall Memb.	99+ %				8-VN 4-3
ASAHIKLIN-AK-225	NA	Pall Membrane	99+ %	12/18/01	12/18/02	1	8-VN 4-4
Custom TO14 STD. MIX	LB01788	Supelco	2500 µg/ml	1/7/02	1/2/03	4	8-VN 4-5
8260 IS	A21640	Restek	2500 µg/ml	3/7/02	4/05	10	8-VN 4-6
Vol's Mix 6	LB02915	Supelco	2000 µg/ml	3/21/02	5/03	3	8-VN 4-7
Freon 113	LB02616	Supelco	2000 µg/ml	3/21/02	2/05	2	8-VN 4-8
502/524 Mix	LB02048	Supelco	2000 µg/ml	3/21/02	5/04	3	8-VN 4-9
8260 Keytone	LA97448	Supelco	2000-2000 µg/ml	3/21/02	9/03	3	8-VN 4-10
Iodomethane	LB00103	Supelco	2000 µg/ml	3/21/02	12/02	3	8-VN 4-11
8260 Kit	Various	Restek	Various	3/21/02	Various	2	8-VN 4-12
Freon 113	A021343	Restek	2000 µg/ml	3/21/02	3/03	3	8-VN 4-13
VOA IS (TO14)	A018019	Restek	2500 µg/ml	3/21/02	3/05	3	8-VN 4-14
VOA Surr (TO14)	A021561	Restek	2500 µg/ml	3/21/02	4/06	2	8-VN 4-15
8260 Keytone	LB03079	Supelco	2000-2000 µg/ml	3/22	8/04	3	8-VN 4-16
Custom Mix	LB03455	Supelco	2000-4000 µg/ml	3/25	3/25/03	3	8-VN 4-17
1&2-Methyl Naphthalene	H-001500S-MIX	Accu STD	1000 µg/ml	6/6/02	6/6/03	2	8-VN 4-18
8260 Surr. Mix	A022061	Restek	2500 µg/ml	6/12/02	5/05	10	8-VN 4-19
IPE	A019529	Restek	2000 µg/ml	7/8/02	5/04	3	-VN 4-20
VOA Matrix Spike Mix (Short list-TO14)	LA98398	Supelco	1000 µg/ml	7/23/02	7/1/04	1	8-VN 4-21
Custom TO14 2nd Source (Full list)	B2010049	Accu Standard	2000 µg/ml	7/24/02	7/22/03	1	8-VN 4-22
							-VN -
							-VN -
							-VN -
							-VN -
							-VN -

GC/MS WORKING STANDARDS LOG

ug/ml = ppm
ug/l = ppb

Sol. Name: Tol4 IS/Surr
Date: 4-11-02
Analyst: BDK

Standard I.D.: 8-MSW34-1
Location: GCMS Freezer MS018
Solvent: Methanol

Parent I.D.	Lot #	Exp. Date	Parent Conc. (ppm) ug/ml	Aliquot (ul)	Final Volume (ml)	Final Conc.
8-VN4-14 (IS)	A018019	3/05	2500 ug/ml	500 uls	50 mls	25 ppm
8-VN4-15 (Surr)	A021561	4/06	↓	↓	↓	↓

Comments: expires 10-11-02

Sol. Name: IS/SURR
Date: 4-15-02
Analyst: NB

Standard I.D.: 8-MSW34-2
Location: GC/MS Freezer MS018
Solvent: MeOH Lot V30E40

Parent I.D.	Lot #	Exp. Date	Parent Conc. (ppm) ug/ml	Aliquot (ul)	Final Volume (ml)	Final Conc.
8-VN2-21 (IS)	A018631	06/04	2500 ug/ml	500 uls	50 ml	25 ug/ml
8-VN3-11 (Surr)	A019474	08/04	2500 ug/ml	500 uls	50 ml	25 ug/ml

Comments: Exp: 10-15-02

Sol. Name: Matrix Spike
Date: 4/16/02
Analyst: DJ

Standard I.D.: 8-MSW34-3
Location: MS018
Solvent: MeOH V30E40

Parent I.D.	Lot #	Exp. Date	Parent Conc. (ppm) ug/ml	Aliquot (ul)	Final Volume (ml)	Final Conc.
Custom Mix 8-VN4-17	LB03455	3/03	2000	625	50	25 µg/ml
Iodomethane 8-VN4-11	LB00103	12/02	↓	↓	↓	↓
MX6 8-VN-3-14	LA99456	11/02				
502/524 8-VN-3-15	LA90534	10/03				
Freon 113 8-VN-3-13	LA93546	6/04				
Keytones 8-VN-3-16	LA97498	9/30/02		1250		

Comments: expires 9/30/02

GC/MS WORKING STANDARDS LOG

ug/ml = ppm
ug/l = ppb

Sol. Name: IS/SURR
Date: 6-26-02
Analyst: WD

Standard I.D.: 8-MSW36-1
Location: GC/MS Freezer MS018
Solvent: MeOH Lot V30E40

Parent I.D.	Lot #	Exp. Date	Parent Conc. (ppm) ug/ml	Aliquot (ul)	Final Volume (ml)	Final Conc.
8-VN-3-12 (IS)	A020253	11/04	2500 ug/ml	500 ul	50 ml	25 ug/ml
8-VN-3-11 (SURR)	A019474	8/04	2500 ug/ml	500 ul	50 ml	25 ug/ml

Comments: Expires 12-26-02

Sol. Name: AIR SPIKE
Date: 7-8-02
Analyst: BDH

Standard I.D.: 8-MSW36-2
Location: GC/MS Freezer MS018
Solvent: MeOH Lot V30E40

Parent I.D.	Lot #	Exp. Date	Parent Conc. (ppm) ug/ml	Aliquot (ul)	Final Volume (ml)	Final Conc.
8-VN1-27	LA89933	5/1/2003	1000	625	25 mls	25 ppm

Comments: expires 1/8/03

AY 7/25/02

Sol. Name: IS/SURR
Date: 7/25/02
Analyst: WD

Standard I.D.: 8-MSW36-3
Location: Katarina's Precpt
Solvent: MeOH V30E40

Parent I.D.	Lot #	Exp. Date	Parent Conc. (ppm) ug/ml	Aliquot (ul)	Final Volume (ml)	Final Conc.
IS 8-VN-3-12	A020253	11/04	2500	500	10	125 ug/ml
SURR 8-VN-3-11	A019474	8/04	↓	↓	↓	

Comments:

STL - PENSACOLA, FL / GCMS

GC/MS WORKING STANDARDS LOG

ug/ml = ppm
ug/l = ppb
Sol. Name: Tol4 Calibration Std.
Date: 8-5-02
Analyst: BDM

Standard I.D.: 8-MSW37 - 1
Location: MS018-STD freezer
Solvent: Methanol Lot V30E40

Parent I.D.	Lot #	Exp. Date	Parent Conc. (ppm) ug/ml	Aliquot (ul)	Final Volume (ml)	Final Conc.
8-VN-4-5	LB-01780	1/7/03	2500 µg/ml	250 µl	25 ml	25 µg/ml

Comments: expires 3/5/03

Sol. Name:
Date:
Analyst:

Standard I.D.: -MSW -
Location:
Solvent:

Parent I.D.	Lot #	Exp. Date	Parent Conc. (ppm) ug/ml	Aliquot (ul)	Final Volume (ml)	Final Conc.

Comments:

Sol. Name:
Date:
Analyst:

Standard I.D.: -MSW -
Location:
Solvent:

Parent I.D.	Lot #	Exp. Date	Parent Conc. (ppm) ug/ml	Aliquot (ul)	Final Volume (ml)	Final Conc.

Comments:

SEVERN TRENT STL

CASE NARRATIVE

Order: C209257
Project: CTO-0062, 103RD STREET MONTHLY AIR

The following sample was received at STL Pensacola on 09-12-02 in good condition. Please see Project Sample Inspection Sheet (PSIF) for further information.

SAMPLE#	SAMPLE DESCRIPTION	MATRIX
C209257*1	062-SVE-E-A-0909-02-28	Air

There were no problems associated with the analysis of this sample. The sample was analyzed within hold times specified by the method. All associated blanks, spikes and other QC requirements were within specified QC limits.

Rick Hayes

9-30-02
Date

Severn Trent Laboratories Inc.
STL Pensacola • 3355 McLemore Dr, Pensacola, FL 32514
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SEVERN TRENT STL

REMIT TO: W4305 SEVERN TRENT LABORATORIES, INC. P.O. Box 7777, Philadelphia, PA 19175-4305

Client PO.No.: 2916

Project: CTO-0062, 103RD STREET MONTHLY AIR

Ms. Tatiana Romanova
CH2M Hill Constructors, Inc. (CCI)
115 Perimeter Center Place, NE Suite 700
Atlanta, GA 30346

Contract No.: CT0-0062
Invoice No: 400-15797
Invoice Amount: $200.00
Invoice Date: 24 SEP 2002

Terms: Net 30 Days
Federal Tax ID NO: 23-2919996
CODE: CH2M-CONST-GA-C-30RH-429

LOG NO: C209257

INVOICE

ITEM	SAMPLE IDENTIFICATION	MTRX	QTY	CAT NO	ANALYSIS	UNIT PRICE	PRICE/SAMP	TOTAL
1	062-SVE-E-A-0909-02-28	AI	1		Volatile Organic Compounds in Air (TO-14)	$165.00	$165.00	165.00
2	Method Blank Lab Control Standard True Value Lab Control Standard Result Lab Control Standard % Recovery LCS Accuracy Control Limit (%R)	QC-A QC-A QC-A QC-A QC-A	5		Volatile Organic Compounds in Air (TO-14)			
	1 Other Charges				Summa Canisters (MI)	$35.00	$35.00	35.00

TOTAL $200.00

REPORTED TO Ms. Tatiana Romanova

CUSTOMER PHONE: (770) 604-9182

For Proper Credit, please show INVOICE NUMBER on your remittance.
After 30 days, service charges of 1.5% per 30 days will be applied to unpaid balance.

SEVERN TRENT STL

LOG NO: C2-09257
Received: 12 SEP 02
Reported: 24 SEP 02

Ms. Tatiana Romanova
CH2M Hill Constructors, Inc. (CCI)
115 Perimeter Center Place, NE Suite 700
Atlanta, GA 30346

Client PO. No.: 2916

Contract No.: CT0-0062
Project: CTO-0062, 103RD STREET MONTHLY AIR
Sampled By: Client
Code: 17552101
Page 1

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , AIR SAMPLES	DATE/ TIME SAMPLED
09257-1	062-SVE-E-A-0909-02-28	09-09-02/13:10

PARAMETER	09257-1
Volatile Organic Compounds in Air (MOD-TO14)	
Benzene, mg/m3	0.070U
Bromodichloromethane, mg/m3	0.070U
Bromoform, mg/m3	0.070U
Bromomethane (Methyl bromide), mg/m3	0.070U
Carbon disulfide, mg/m3	0.070U
Carbon tetrachloride, mg/m3	0.070U
Chlorobenzene, mg/m3	0.070U
Chloroethane, mg/m3	0.070U
Chloroform, mg/m3	0.070U
Chloromethane (Methyl chloride), mg/m3	0.070U
2-Chlorotoluene, mg/m3	0.070U
Dibromochloromethane, mg/m3	0.070U
1,2-Dibromoethane (EDB), mg/m3	0.070U
1,2-Dichlorobenzene, mg/m3	0.070U
1,3-Dichlorobenzene, mg/m3	0.070U
1,4-Dichlorobenzene, mg/m3	0.070U
trans-1,4-Dichloro-2-butene, mg/m3	0.070U
Dichlorodifluoromethane, mg/m3	0.070U
1,1-Dichloroethane, mg/m3	0.070U
1,2-Dichloroethane, mg/m3	0.070U
1,1-Dichloroethene, mg/m3	0.070U
cis-1,2-Dichloroethene, mg/m3	0.070U
trans-1,2-Dichloroethene, mg/m3	0.070U
1,2-Dichloropropane, mg/m3	0.070U
cis-1,3-Dichloropropene, mg/m3	0.070U

SEVERN TRENT STL

LOG NO: C2-09257
Received: 12 SEP 02
Reported: 24 SEP 02

Ms. Tatiana Romanova
CH2M Hill Constructors, Inc. (CCI)
115 Perimeter Center Place, NE Suite 700
Atlanta, GA 30346

Client PO. No.: 2916

Contract No.: CT0-0062
Project: CTO-0062, 103RD STREET MONTHLY AIR
Sampled

7552101
REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , AIR SAMPLES	DATE/ TIME SAMPLED
09257-1	062-SVE-E-A-0909-02-28	09-09-02/13:10

PARAMETER	09257-1
trans-1,3-Dichloropropene, mg/m3	0.070U
Dichlorotetrafluoroethane, mg/m3	0.070U
Ethylbenzene, mg/m3	0.070U
Hexane, mg/m3	0.070U
4-Ethyltoluene, mg/m3	0.070U
Hexachlorobutadiene, mg/m3	0.070U
Methylene chloride (Dichloromethane), mg/m3	0.070U
Methyl t-butyl ether (MTBE), mg/m3	0.070U
Styrene, mg/m3	0.070U
1,1,2,2-Tetrachloroethane, mg/m3	0.070U
Tetrachloroethene, mg/m3	0.070U
Toluene, mg/m3	0.059JB
1,2,4-Trichlorobenzene, mg/m3	0.070U
1,1,1-Trichloroethane, mg/m3	0.070U
1,1,2-Trichloroethane, mg/m3	0.070U
Trichloroethene, mg/m3	0.070U
Trichlorofluoromethane, mg/m3	0.070U
1,1,2-Trichloro-1,2,2-trifluoroethane, mg/m3	0.070U
1,2,4-Trimethylbenzene, mg/m3	0.070U
1,3,5-Trimethylbenzene, mg/m3	0.070U
Vinyl chloride, mg/m3	0.070U
o-Xylene, mg/m3	0.070U
m&p-Xylene, mg/m3	0.14U
Surrogate - 1,2-Dichloroethane-d4	106 %
Surrogate - Toluene-d8	101 %
Surrogate - 4-Bromofluorobenzene	97 %

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SEVERN TRENT STL

LOG NO: C2-09257
Received: 12 SEP 02
Reported: 24 SEP 02

Ms. Tatiana Romanova
CH2M Hill Constructors, Inc. (CCI)
115 Perimeter Center Place, NE Suite 700
Atlanta, GA 30346

Client PO. No.: 2916

Contract No.: CT0-0062
Project: CTO-0062, 103RD STREET MONTHLY AIR
Sampled By: Client
Code: 17552101

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , AIR SAMPLES	DATE/ TIME SAMPLED
09257-1	062-SVE-E-A-0909-02-28	09-09-02/13:10

PARAMETER	09257-1
Dilution Factor	1
Prep Date	09.16.02
Prep Time	16:07
Analysis Date	09.16.02
Analysis Time	16:07
Batch ID	MAA164
Prep Method	MOD-TO14
Analyst	LAD

Severn Trent Laboratories Inc.
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SEVERN TRENT STL

LOG NO: C2-09257
Received: 12 SEP 02
Reported: 24 SEP 02

Ms. Tatiana Romanova
CH2M Hill Constructors, Inc. (CCI)
115 Perimeter Center Place, NE Suite 700
Atlanta, GA 30346

Client PO. No.: 2916

Contract No.: CT0-0062
Project: CTO-0062, 103RD STREET MONTHLY AIR
Sampled By: Client
Code: 17552101

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR AIR SAMPLES	DATE/ TIME SAMPLED
09257-2	Method Blank	
09257-3	Lab Control Standard True Value	
09257-4	Lab Control Standard Result	
09257-5	Lab Control Standard % Recovery	
09257-6	LCS Accuracy Control Limit (%R)	

PARAMETER	09257-2	09257-3	09257-4	09257-5	09257-6
Volatile Organic Compounds in Air (MOD-TO14)					
Benzene, mg/m3	0.030U	0.5000	0.5286	106 %	87-116
Bromodichloromethane, mg/m3	0.030U	---	---	---	---
Bromoform, mg/m3	0.030U	---	---	---	---
Bromomethane (Methyl bromide), mg/m3	0.030U	---	---	---	---
Carbon disulfide, mg/m3	0.030U	---	---	---	---
Carbon tetrachloride, mg/m3	0.030U	---	---	---	---
Chlorobenzene, mg/m3	0.030U	0.5000	0.5428	109 %	88-111
Chloroethane, mg/m3	0.030U	---	---	---	---
Chloroform, mg/m3	0.030U	---	---	---	---
Chloromethane (Methyl chloride), mg/m3	0.030U	---	---	---	---
2-Chlorotoluene, mg/m3	0.030U	---	---	---	---
Dibromochloromethane, mg/m3	0.030U	---	---	---	---
1,2-Dibromoethane (EDB), mg/m3	0.030U	---	---	---	---
1,2-Dichlorobenzene, mg/m3	0.030U	---	---	---	---
1,3-Dichlorobenzene, mg/m3	0.030U	---	---	---	---
1,4-Dichlorobenzene, mg/m3	0.030U	---	---	---	---
trans-1,4-Dichloro-2-butene , mg/m3	0.030U	---	---	---	---

SEVERN TRENT STL

LOG NO: C2-09257
Received: 12 SEP 02
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115 Perimeter Center Place, NE Suite 700
Atlanta, GA 30346

Client PO. No.: 2916

Contract No.: CT0-0062
Project: CTO-0062, 103RD STREET MONTHLY AIR
Sampled By: Client
Code: 17552101

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR AIR SAMPLES	DATE/ TIME SAMPLED
09257-2	Method Blank	
09257-3	Lab Control Standard True Value	
09257-4	Lab Control Standard Result	
09257-5	Lab Control Standard % Recovery	
09257-6	LCS Accuracy Control Limit (%R)	

PARAMETER	09257-2	09257-3	09257-4	09257-5	09257-6
Dichlorodifluoromethane, mg/m3	0.030U	---	---	---	---
1,1-Dichloroethane, mg/m3	0.030U	---	---	---	---
1,2-Dichloroethane, mg/m3	0.030U	---	---	---	---
1,1-Dichloroethene, mg/m3	0.030U	0.5000	0.4933	99 %	58-138
cis-1,2-Dichloroethene, mg/m3	0.030U	---	---	---	---
trans-1,2-Dichloroethene, mg/m3	0.030U	---	---	---	---
1,2-Dichloropropane, mg/m3	0.030U	---	---	---	---
cis-1,3-Dichloropropene, mg/m3	0.030U	---	---	---	---
trans-1,3-Dichloropropene, mg/m3	0.030U	---	---	---	---
Dichlorotetrafluoroethane, mg/m3	0.030U	---	---	---	---
Ethylbenzene, mg/m3	0.030U	---	---	---	---
Hexane, mg/m3	0.030U	---	---	---	---
4-Ethyltoluene, mg/m3	0.030U	---	---	---	---
Hexachlorobutadiene, mg/m3	0.030U	---	---	---	---
Methylene chloride (Dichloromethane), mg/m3	0.030U	---	---	---	---
Methyl t-butyl ether (MTBE), mg/m3	0.030U	---	---	---	---
Styrene, mg/m3	0.030U	---	---	---	---
1,1,2,2-Tetrachloroethane, mg/m3	0.030U	---	---	---	---
Tetrachloroethene, mg/m3	0.030U	---	---	---	---
Toluene, mg/m3	0.030U	0.5000	0.5598	112 %	86-113

SEVERN TRENT STL

LOG NO: C2-09257
Received: 12 SEP 02
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Ms. Tatiana Romanova
CH2M Hill Constructors, Inc. (CCI)
115 Perimeter Center Place, NE Suite 700
Atlanta, GA 30346

Client PO. No.: 2916

Contract No.: CT0-0062
Project: CTO-0062, 103RD STREET MONTHLY AIR
Sampled By: Client
Code: 17552101

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR AIR SAMPLES	DATE/ TIME SAMPLED
09257-2	Method Blank	
09257-3	Lab Control Standard True Value	
09257-4	Lab Control Standard Result	
09257-5	Lab Control Standard % Recovery	
09257-6	LCS Accuracy Control Limit (%R)	

PARAMETER	09257-2	09257-3	09257-4	09257-5	09257-6
1,2,4-Trichlorobenzene, mg/m3	0.030U	---	---	---	---
1,1,1-Trichloroethane, mg/m3	0.030U	---	---	---	---
1,1,2-Trichloroethane, mg/m3	0.030U	---	---	---	---
Trichloroethene, mg/m3	0.030U	0.5000	0.5297	106 %	85-116
Trichlorofluoromethane, mg/m3	0.030U	---	---	---	---
1,1,2-Trichloro-1,2,2-trifl uoroethane, mg/m3	0.030U	---	---	---	---
1,2,4-Trimethylbenzene, mg/m3	0.030U	---	---	---	---
1,3,5-Trimethylbenzene, mg/m3	0.030U	---	---	---	---
Vinyl chloride, mg/m3	0.030U	---	---	---	---
o-Xylene, mg/m3	0.030U	---	---	---	---
m&p-Xylene, mg/m3	0.060U	---	---	---	---
Surrogate - 1,2-Dichloroethane-d4	100 %	0.5000	0.5197	104 %	61-140
Surrogate - Toluene-d8	99 %	0.5000	0.5008	100 %	90-109
Surrogate - 4-Bromofluorobenzene	101 %	0.5000	0.5095	102 %	87-112
Dilution Factor	1	---	1	---	---
Prep Date	09.16.02	---	09.16.02	---	---
Prep Time	11:22	---	12:00	---	---
Analysis Date	09.16.02	---	09.16.02	---	---
Analysis Time	11:22	---	12:00	---	---
Batch ID	MAA164	MAA164	MAA164	MAA164	MAA164
Prep Method	MOD-TO14	---	MOD-TO14	---	---
Analyst	LAD	---	LAD	---	---

SEVERN TRENT STL

LOG NO: C2-09257
Received: 12 SEP 02
Reported: 24 SEP 02

Ms. Tatiana Romanova
CH2M Hill Constructors, Inc. (CCI)
115 Perimeter Center Place, NE Suite 700
Atlanta, GA 30346

Client PO. No.: 2916

Contract No.: CT0-0062
Project: CTO-0062, 103RD STREET MONTHLY AIR
Sampled By: Client
Code: 17552101
Page 7

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR AIR SAMPLES	DATE/ TIME SAMPLED
09257-2	Method Blank	
09257-3	Lab Control Standard True Value	
09257-4	Lab Control Standard Result	
09257-5	Lab Control Standard % Recovery	
09257-6	LCS Accuracy Control Limit (%R)	

PARAMETER	09257-2	09257-3	09257-4	09257-5	09257-6

These test results meet all the requirements of NELAC. All questions regarding this test report should be directed to the STL Project Manager who signed this test report.
Data from any samples that do not meet client, federal, or state sample acceptance criteria (collection, preservation, or holding time) will be flagged, or noted on a corrective action form or case narrative, or addressed on the Project Sample Inspection Form (PSIF).
A statement of the estimated uncertainty of the test result is available upon request.

Rick Hayes, Project Manager

Final Page Of Report

SEVERN TRENT STL

Explanation of CLP Data Qualifiers
Organics

U: This flag indicates the compound was analyzed for but not detected. The CRQL shall be adjusted according to the equation listed in Exhibit D. CRQLs are listed in Exhibit C.

J: This flag indicates an estimated value. This flag is used (1) when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, (2) when the mass spectral and retention time data indicate the presence of a compound that meets the volatile and semivolatile GC/MS identification criteria, and the result is less than the CRQL but greater than zero, and (3) when the retention time data indicate the presence of a compound that meets the pesticide/Aroclor identification criteria, and the result is less than the CRQL but greater than zero. For example, if the sample quantitation limit is 10 µg/L, but a concentration of 3 µg/L is calculated, report it as 3J.
NOTE: The J flag is not used and the compound is not reported as being identified for Pesticide/Aroclor results less than the CRQL if the pesticide residue analysis expert determines that the peaks used for compound identification resulted from instrument noise or other interferences (column bleed, solvent contamination, etc.).

N: This flag indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It is applied to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the N flag is not used.

P: This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns (see Form X). **The lower of the two values is reported on Form I and flagged with a P.**

C: This flag applies to pesticide results where the **identification** has been confirmed by GC/MS. If GC/MS confirmation was attempted but was unsuccessful, do **not** apply this flag; use a laboratory-defined flag instead (see the X qualifier).

B: This flag is used when the analyte is found in the associated method blank as well as in the sample. It indicates probable blank contamination and warns the data user to take appropriate action. This flag shall be used for a tentatively identified compound as well as for a positively identified target compound. The combination of flags BU or UB is expressly prohibited. Blank contaminants are flagged B only when they are detected in the sample.

E: This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis. If one or more compounds have a response greater than the upper level of the calibration range, the sample or extract shall be diluted and reanalyzed according to the specifications in Exhibit D; exceptions are also noted in Exhibit D. All such compounds with a response greater than the upper level of the calibration range shall have the concentration flagged with an E on Form I for the original analysis.
NOTE: For total xylene, where three isomers are quantified as two peaks, the calibration range of **each peak** shall be considered separately. For example, a diluted analysis is **not** required for total xylene unless the concentration of the peak representing the single isomer exceeds 200 µg/L or the peak representing the two co-eluting isomers on that GC column exceeds 400 µg/L.

D: If a sample or extract is reanalyzed at a higher dilution factor, for example when the concentration of an analyte exceeds the upper calibration range, the DL suffix is appended to the sample number on Form I for the more diluted sample, and **all** reported concentrations on that Form I are flagged with the D flag. This flag alerts data users that any discrepancies between the reported concentrations may be due to dilution of the sample or extract. NOTE 1: The D flag is not applied to compounds which are not detected in the sample analysis (i.e., compounds reported with the CRQL and the U flag). NOTE 2: Separate Form Is are required for reporting the original analysis (EPA Sample No. XXXXX) and the more diluted sample analysis (EPA Sample No. XXXXXDL) (i.e., the results from both analyses cannot be combined on a single Form I).

A: This flag indicates that a tentatively identified compound is a suspected aldol-condensation product.

X: Other specific flags may be required to properly define the results. If used, the flags shall be fully described, with the description attached to the sample data summary package and the SDG Narrative. Begin by using X. If more than one flag is required, use Y and Z as needed. If more than five qualifiers are required for a sample result, use the X flag to represent a combination of several flags. For instance,
the X flag might combine the A, B, and D flags for some samples. The laboratory-defined flags **are limited to** X, Y, and Z.

Explanation of CLP Data Qualifiers
Inorganic

C - Concentration Qualifier

U - The analyte was analyzed for but not detected (at or above the RL or the MDL, whichever is entered next to the "U" value).

B - The reported value is less than the STL Pensacola Reporting Limit (RL) or client-requested reporting limit (RL) but greater than or equal to the STL Pensacola Method Detection Limit (MDL).

Q - QC Qualifier

E - The reported value is estimated because of the presence of interference. An explanatory note shall be included in the case narrative.

N - The spiked sample recovery is not within control limits.

* - Duplicate analysis not within control limits

M - The duplicate injection precision was not met.

S - The reported value was determined by the Method of Standard Addition (MSA).

W - Post-digestion spike for Furnace AA analysis is out of control limits (85-115%), while sample absorbance is less than 50% of spike absorbance and post spike recovery is greater than or equal to 40%, the sample is flagged with a "W" and no further action is required.

+ - The Standard Additions Correlation Coefficient is <0.995.

NOTE: Entering "S," "W," or "+" is mutually exclusive. No combination of these qualifiers can appear in the same field for an analyte.

M - Method Qualifier

P - ICP
F - Furnace AA
CV - Cold Vapor AA (mercury)
AV - Automated Cold Vapor AA (mercury)

Revised 5/10/01

SEVERN TRENT STL

STL Pensacola Data Qualifiers for Final Report

B	The analyte was detected in the associated method blank and in the client's sample.
C	The compound has been quantitated against a one point calibration.
D	Recovery is not calculable due to dilution.
E	Estimated value because the analyte concentration exceeds the upper calibration range of the instrument or method.
I	Estimated value because the analyte concentration is less than the lower calibration range of the instrument but is at the method detection limit or greater than the method detection limit.
H	Sample and/or duplicate is below 5 X (times) the STL Reporting Limit and the absolute difference between the results exceeds the STL Reporting Limit.
J1	A sample surrogate or an LCS target compound recovered above the upper control limit (UCL). Compounds qualified with a J1 may be biased high.
J2	A sample surrogate or an LCS target compound recovered outside the lower control limit (LCL). Compounds qualified with a J2 may be biased low.
M1	A matrix effect was present.
M2	The MS and/or MSD %R or RPD was outside upper or lower control limits; not necessarily due to matrix effect.
N/C	Not Calculable; Sample spiked is > 4X spike concentration (may use this flag in place of negative numbers).
R1	Internal standard area exceeds the acceptance criteria
R2	Calibration verification exceeds the acceptance criteria.
S1	The Method of Standard Additions (MSA) has been performed on this sample.
T	Second-column or detector confirmation exceeded the SW-846 criteria of 40% RPD for this compound.
TIC	The compound is not included in the initial calibration curve. It is searched for qualitatively or as a Tentatively Identified Compound.
U or <	The analyte was not detected at or above the MDL or the RL, whichever is entered next to the "U" or "<".
W	Post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is less than 50% spike absorbance.

It is permissible to submit an Out-of-Control Events/Corrective Action form and/or Case Narrative in lieu of using above qualifiers.

When the laboratory receives a sample that does not meet EPA requirements for sample collection, preservation or holding time, the laboratory is required to reject the samples. The client must be notified and asked whether the lab should proceed with analysis. Data from any samples that do not meet sample acceptance criteria (collection, preservation and holding time), must be flagged, or noted on a corrective action form or case narrative, or addressed on the Project Sample Inspection Form (PSIF) in an unambiguous manner clearly defining the nature and substance of the variation. NPDES samples from North Carolina that do not meet EPA requirements for sample collection, preservation or holding time are non-reportable for NPDES compliance monitoring.

Abbreviations

ND	Not Detected at or above the STL Pensacola reporting limit (RL)
NS	Not Submitted
NA	Not Applicable
MDL	STL Pensacola Method Detection Limit
RL	STL Pensacola Reporting Limit
NoMS	Not enough sample provided to prepare and/or analyze a method-required matrix spike (MS) and/or duplicate (MSD)

Florida Projects Inorganic/Organic

Refer to FL DEP 62-160.700(7); Table 7 Data Qualifier Codes. FL DEP Rule 62-160.670(1)(h) states that laboratories shall include the analytical result for each analysis with applicable data qualifiers. FL DEP Rule 62-160.700(7), Table 7 lists the FL DEP data qualifiers. FL DEP Rule 62-160.700(3), Table 3 lists the Florida sites which require data qualifiers.

AFCEE QAPP Projects

Refer to AFCEE QAPP for appropriate data qualifiers (AFCEE QAPP Version will be specified by client for the project).

Arizona DEQ Projects

Any qualified data submitted to Arizona DEQ (ADEQ) after January 1, 2001 must be designated using the Arizona Data Qualifiers as developed by the Arizona ELAC technical subcommittee. Refer to the ADEQ qualifier list.

CLP and CLP-like Projects

Refer to referenced CLP Statement of Work (SOW) for explanation of data qualifiers. CLP SOW to be followed must be specified to client.

Revised 08.05.02

SEVERN TRENT STL

STL PENSACOLA
Certifications, Memberships & Affiliations

Alabama *Department of Environmental Management, Laboratory ID No. 40150 (Drinking Water by Reciprocity with FL), expires 06/30/03*

Arizona *Department of Health Services, Lab ID No. AZ0589 (Hazardous Waste & Wastewater), expires 01/11/03*

Arkansas *Department of Pollution Control and Ecology, (No Laboratory ID No. assigned by state) (Environmental), expires 02/20/03*

California *Department of Health Services,* ***ELAP*** *Laboratory ID No. I-2510 (Hazardous Waste and Wastewater), expires 03/31/03*

Connecticut *Department of Health Services, Connecticut Lab Approval No. PH-0697 (D W, H W and Wastewater), expires 09/30/03*

Florida *DOH,* ***NELAP*** *Laboratory ID No. E81010 (Drinking Water, Hazardous Waste and Wastewater), expires 06/30/03*

Florida *DEP/DOH CompQAP # 980156*

Iowa *Department of Natural Resources, Laboratory ID No. 37 (UST), expires 08/01/04*

Kansas *Department of Health & Environment,* ***NELAP*** *Laboratory ID No. E10253 (Wastewater and Hazardous Waste), expires 10/31/02*

Kentucky *NR&EPC, Laboratory ID No. 90043 (Drinking Water), expires 12/31/02.*

Louisiana *DEQ, LELAP,* ***NELAP*** *Laboratory ID No. 02075, Agency Interest ID 30748 (Environmental, expires 6/30/03)*

Maryland *DH&MH Laboratory ID No. 233 (Drinking Water by Reciprocity with Florida), expires 09/30/02*

Massachusetts *DEP, Laboratory ID No. M-FL094 (Wastewater), expires 06/30/03*

Michigan *Bureau of E&OccH, Laboratory ID No.9912 (Drinking Water by Reciprocity with Florida), expires 06/30/03*

New Hampshire *DES ELAP,* ***NELAP*** *Laboratory ID No. 250502 (Drinking Water & Wastewater), expires 08/16/03*

New Jersey *DEP&E,* ***NELAP*** *Laboratory ID No. FL006 (Wastewater and Hazardous Waster), expires 06/30/03.*

New York State *Department of Health,* ***NELAP*** *Laboratory ID No. 11503 (WW and Solids/Hazardous Waste), expires 04/01/2003*

North Carolina *DENR, Laboratory ID No. 314 (Hazardous Waste and Wastewater), expires 12/31/02.*

North Dakota *DH&Consol Labs, Laboratory ID No. R-108 Wastewater and Hazardous Waste by Reciprocity with Florida), expires 06/30/02*

Oklahoma *Department of Environmental Quality, Laboratory ID No. 9810 (Hazardous Waste and Wastewater), expires 08/31/03*

Pennsylvania *Department of Environmental Resources,* ***NELAP*** *Laboratory ID No. 68-467 (Drinking Water & Wastewater), expires 12/01/02*

South Carolina *DH&EC, Laboratory ID No. 96026 (Wastewater & Solids/Hazardous Waste by Reciprocity with FL), expires 06/30/02*

Tennessee *Department of Health & Environment, Laboratory ID No. 02907 (Drinking Water), expires 08/03/04*

Virginia *Department of General Services, Laboratory ID No. 00008 (Drinking Water by Reciprocity with FL), expires 06/30/03.*

Washington *Department of Ecology, Laboratory ID No. C282 (Hazardous Waste and Wastewater), expires 09/14/02.*

West Virginia *DOE, Office of Water Resources, Laboratory ID No. 136 (Haz Waste and Wastewater), expires 04/30/02.*

AIHA *(American Industrial Hygiene Association) Accredited Laboratory, Laboratory ID No. 100704, expires April 1, 2004. Participant in AIHA sponsored Laboratory PAT Rounds*

EPA ICR *(Information Collection Rule) Approved Laboratory, Laboratory ID No. ICRFL031*

NFESC *(Naval Facilities Engineering Services Center), expires December 31, 2002.*

USACE *(United States Army Corps. of Engineers), MRD, expires January 5, 2003.*

STL Pensacola also has a foreign soil permit to accept soils from locations other than the continental United States. Permit No. S-37599

certlist\condcert.lst revised 09/14/02

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

C209257

CHAIN-OF-CUSTODY RECORD

COC NUMBER
163151-059

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	163151	STL - Pensacola Rick Hayes	Bill Canelos J.A Jones Env. Services	6219 Authority Road, Jacksonville, FL 32221 PH: (904) 7774812 FAX: (904) 7774262
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	0062	2916	Christelle Newsome / 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.):
Bill Canelos	Ph:(904)777-4812 Fax:(904) 777-4262	Ph: (850) 474-1001 Fax: (850) 4782671		

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 TO-14										SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	062-SVE-E-A-0909-02-28	SVE Effluent	AIR	09/09/02	13:10	III/C	14 Day	1									P24	Grab	Summa Canister	
2																				
3																				
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 # 7900 5559 9676	

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature:			Printed Name and Signature:		
R. Dumaop	9/9/02	11:00	Federal Express	9/9/02	11:00
Printed Name and Signature:			Printed Name and Signature:		
			Mark Swofford Mark Swofford	9/12/02	950
Printed Name and Signature:			Printed Name and Signature:		

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

Form CC1001, Rev 02/00

CTO-0062, NAS Cecil Field

STL Pensacola
PROJECT SAMPLE INSPECTION FORM

SEVERN TRENT STL
Environmental Leadership

Lab Order #: C209257 Date Received: 9/12/02

1. Was there a Chain of Custody? Yes No+
2. Was Chain of Custody properly filled out and relinquished? Yes No+
3. Were all samples properly labeled and identified? Yes No+
4. Were samples received cold? (Criteria: 2° - 6°C: STL-SOP 1055) Yes No+ N/A
5. Did samples require splitting or compositing♦? Yes+ No
6. Were samples received in proper containers for analysis requested? Yes No+
7. Were all sample containers received intact? Yes No+
8. Were samples checked for preservative? *(Check pH of all H_2O requiring preservative (STL-PN SOP 917) except VOA vials that require zero headspace)*+ Yes No+ N/A
9. Is there sufficient volume for analysis requested? Yes No+ N/A *(Can)*
10. Were samples received within Holding Time? (REFER TO STL-SOP 1040) Yes No+
11. Is Headspace visible > ¼" in diameter in VOA vials?* Yes+ No N/A
12. If sent, were matrix spike bottles returned? Yes No+ N/A
13. If sent, were T-Handles returned? Yes No+ N/A
14. If any issues, how was PM notified? PSIF ☐ Verbal ☐

Airbill Number(s): 7900 5559 9676

CAN # 024

Shipped By: UPS FedX HD BUS
(HD – Hand Delivery)

Cooler Numbers & Temp(s) (°C): N/A
(IE. 340L-4°C-CCK8 -- LIST THERMOMETER NUMBER FOR VERIFICATION)

Out of Control Events and Inspection Comments (list sample IDs/Tests where appropriate):

2-3. Sample ID/COC discrepancy:
4. Insufficient Ice ☐ Delay in delivery ☐ Other ☐
5. Samples were Split ☐ Composited ☐ Requested by: Client ☐ PM ☐ Other:
6. Improper Containers (ID/Size/desc):
7. Broken bottles/Test:
8. Incorrect pH:
9. Test/Matrix/Volume:
10. Out of Holding Time/Test:
11. VOA headspace >1/4" (list~size)

List additional comments by above number:

(USE BACK OF PSIF FOR ADDITIONAL NOTES AND COMMENTS)

Inspected By: MMS **Date:** 9/13/02 **Logged By:** LLK **Date:** 12-Sept-02

♣ *Note all Out-of-Control and/or questionable events on Comment Section of this form. For holding times, the analytical department will flag immediate hold time samples(pH, Dissolved O_2, Residual CL) as out of hold time, therefore, these samples will not be documented on this PSIF.*

♦ *All volatile samples requested to be split or composited must be done in the Volatile Lab. Document: "Volatile sample values may be compromised due to sample splitting (compositing)"*

\+ *All pH results for North Carolina, New York, and other requested samples are to be recorded on the pH log provided (STL-SOP 938).*

* *According to EPA, ¼" of headspace is acceptable in 40 ml vials requiring volatile analysis.*

C209257

From: Randy Dumaop (904)777-4812
CCI / J.A. JONES ENV. SERVICES
6219 Authority Ave

Jacksonville, FL, 32221

REVENUE BARCODE

FedEx.

To: Rick Hayes (850)474-1001
Severn Trent Labs
3355 McLemore Dr

Pensacola, FL, 325147045

SHIP DATE: 10SEP02
WEIGHT: 16 LBS

Ref: 163151.99.22.01.01/30857

DELIVERY ADDRESS BARCODE(FEDEX-EDR)

FedEx ** 2DAY **

TRK # 7900 5559 9676 FORM 0201

BFM

THU
AA
Deliver by:
12SEP02

32514-FL-US F3 PNSA

Shipping Label

Schedule Courier | Find a Dropoff Location | Shipping History

Shipment Complete | Cancel Shipment | Edit Shipment Information

1. Use the "Print" feature from your browser to send this page to your laser printer.
2. Fold the printed page along the horizontal line.
3. Place label in air waybill pouch and affix it to your shipment so that the barcode portion of the label can be read and s

Shipment Details

To print a copy of the shipment information for your records, please click "Shipment Details".

Shipment Details

Ship a New Package

Ship Inside U.S. | Ship Outside U.S. | Ship to Same Recipient

Use of this system constitutes your agreement to the service conditions in the current FedEx service Guide, available upon request.
FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, nodelivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is $500, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

AIR VOLATILE CASE NARRATIVE

LABORATORY NAME: STL PENSACOLA
CASE NUMBER: NA
SDG#: 209257
PROJECT NAME: N.A.S. Cecil Field, 103rd Street

RECEIVED: Sept. 12, 2002

CLIENT ID#	STL ID #	STL SAMPLE NAME IN PACKAGE
062-SVE-E-A-0909-02-28	209257-1	SVEEA

The sample was received in good condition. No MS/MSD was analyzed due to matrix type. Due to software limitations there are no Form I's.

Larry Dilmore
GC/MS SUPERVISOR
Sept. 23, 2002

2A

AIR VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name : STL PENSACOLA
Project : NA Site : NA
Lab File ID (Standard): CM0916A.D
Instrument ID : MARILYN
GC Column : CAP ID : MARI
Level :

Contract : NA
Location : NA Group : NA
Date Analyzed : 16 Sep 2002
Time Analyzed : 10:44 am
Heated Purge (Y:N) : N

File	Sample	SMC1 #	SMC2 #	SMC3 #	SMC4 #	SMC5 #	SMC6 #	TOTAL OUT
92571	OS=09257-1 BT=A	106	101	97	0	0	0	0
MA164ABK	VBLKMA\ DAILY M	100	99	101	0	0	0	0
MA164LCS	VLCSMA\ BATCH #	104	100	102	0	0	0	0

		QC Limits
SMC1	= 1,2-Dichloroethane d4 SURR#1	(61 -140)
SMC2	= Toluene-d8 SURR#2	(90 -109)
SMC3	= 4-Bromofluorobenzene SURR#3	(87 -112)
SMC4	=	(0 -0)
SMC5	=	(0 -0)
SMC6	=	(0 -0)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

TO-14 NG-MG/M3 CONVERSION

order # 209257

Batch MAA154

	Actual ng result	Sample # 3 mg/m3 TRUE	4 mg/m3 RESULT	5 % REC	6 rec limit
Benzene	264.32	0.5000	0.5286	106%	87-116%
Chlorobenzene	271.41	0.5000	0.5428	109%	88-111%
1,1-Dichloroethene	246.67	0.5000	0.4933	99%	58-138%
Toluene	279.92	0.5000	0.5598	112%	86-113%
Trichloroethene	264.87	0.5000	0.5297	106%	85-116%
1,2-Dichloroethane-d4	259.84	0.5000	0.5197	104%	61-140%
Toluene-d8	250.41	0.5000	0.5008	100%	90-109%
4-Bromofluorobenzene	254.75	0.5000	0.5095	102%	87-112%

LCS Blank Summary Report

Data File : D:\HPCHEM\1\DATA02\M091602A\MA164LCS.D Vial: 4
Acq On : 16 Sep 2002 12:00 Operator: LAD
Sample : VLCSMA\ BATCH #164 LCS 250ng Inst : MARILYN
Misc : Pi/Pf=1 2nd SOURCE Multiplr: 1.00
MS Integration Params: rteint.p
Matrix : WATER

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Sep 16 11:40:26 2002
Response via : Multiple Level Calibration

		Compound Name	Conc	Added	Recv(%)	QC Range	Q
10)	MC	1,1-Dichloroethene	246.67	250.00	98.67	58 to 138%	[ ]
27)	M	Benzene	264.32	250.00	105.73	87 to 116%	[ ]
28)	M	Trichloroethene	264.87	250.00	105.95	85 to 116%	[ ]
33)	MC	Toluene	279.92	250.00	111.97	86 to 113%	[ ]
39)	MP	Chlorobenzene	271.41	250.00	108.56	88 to 111%	[ ]

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKMA

Lab Name: STL PENSACOLA Contract: N/A

Lab Code: STL PN Case No.: N/A SAS No.: N/A SDG No.: C209257

Lab File ID: MA164ABK.D Lab Sample ID: VBLKMA\ DAILY M

Date Analyzed: 9/16/02 Time Analyzed: 11:22

GC Column: CAP ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: MARILYN

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS AND 2ND	VLCSMA\ BATCH #164 L	MA164LCS.D	12:00
02	SVEEA	OS=09257-1 BT=A164 R	92571.D	16:07

COMMENTS

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL PENSACOLA Contract: N/A

Lab Code: STL PN Case No.: N/A SAS No.: N/A SDG No.: C209257

Lab File ID: BFM0805A.D BFB Injection Date: 8/5/02

Instrument ID: MARILYN BFB Injection Time: 13:21

GC Column: CAP ID: 0.53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	15.9
75	30.0 - 66.0% of mass 95	42.2
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	78.6
175	4.0 - 9.0% of mass 174	5.3 (6.8)1
176	93.0 - 101.0% of mass 174	76.3 (97.0)1
177	5.0 - 9.0% of mass 176	4.9 (6.4)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	VSTD0250	250NG/10UL/50PPB INITI	CMA0250.D	8/5/02	14:33
02	VSTD0025	25NG/1UL/5PPB INITIAL	CMA0025.D	8/5/02	15:11
03	VSTD0100	100NG/4UL/20PPB INITI	CMA0100.D	8/5/02	15:48
04	VSTD0500	500NG/20UL/100PPB INI	CMA0500.D	8/5/02	16:23
05	VSTD1000	1000NG/40UL/200PPB IN	CMA1000.D	8/5/02	17:00
06	VSTD1500	1500NG/60UL/300PPB IN	CMA1500.D	8/5/02	17:38

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL PENSACOLA Contract: N/A

Lab Code: STL PN Case No.: N/A SAS No.: N/A SDG No.: C209257

Lab File ID: BFM0916A.D BFB Injection Date: 9/16/02

Instrument ID: MARILYN BFB Injection Time: 10:05

GC Column: CAP ID: 0.53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	16.6
75	30.0 - 66.0% of mass 95	40.7
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	75.4
175	4.0 - 9.0% of mass 174	5.9 (7.9)1
176	93.0 - 101.0% of mass 174	73.8 (97.9)1
177	5.0 - 9.0% of mass 176	5.0 (6.7)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	VSTD0250MA	VSTD250\ DAILY CALIBR	CM0916A.D	9/16/02	10:44
02	VBLKMA	VBLKMA\ DAILY METHO	MA164ABK.D	9/16/02	11:22
03	LCS AND 2ND	VLCSMA\ BATCH #164 L	MA164LCS.D	9/16/02	12:00
04	SVEEA	OS=09257-1 BT=A164 R	92571.D	9/16/02	16:07

Response Factor Report MARILYN

Method : D:\HPCHEM\1\METHODS\MARILYN\CRV080502 TO14\TO14S.M (RTE In
Title : TO14
Last Update : Mon Sep 23 10:22:09 2002
Response via : Initial Calibration

Calibration Files

25	=CMA0025.D	250	=CMA0250.D	1500	=CMA1500.D
1000	=CMA1000.D	100	=CMA0100.D	500	=CMA0500.D

		Compound	25	250	1500	1000	100	500	Avg	%RS
1)	I	Bromochloromethane IS	----------ISTD----------							
2)		Dichlorodifluoromet	0.448	0.847	0.878	0.778	0.867	0.840	-----	
							L	M= 0.856	R^2=0.99	
								B= -0.039		
3)		Dichlorotetrafluoro	0.998	1.337	1.160	1.246	1.143	1.322	1.201	10.63
4)	P	Chloromethane	0.682	0.744	0.862	0.839	0.633	0.756	0.753	11.71
5)	C	Vinyl chloride	0.505	0.728	0.693	0.698	0.616	0.708	0.658	12.82
6)		Bromomethane	0.629	0.584	0.674	0.678	0.529	0.658	0.625	9.36
7)		Chloroethane	0.241	0.488	0.428	0.457	0.407	0.475	-----	
							L	M= 0.433	R^2=0.99	
								B= 0.033		
8)		Trichlorofluorometh	2.161	2.739	2.489	2.644	2.251	2.766	2.508	10.17
9)		1,1,2-Trichlorotrif	1.789	2.282	2.376	2.383	1.842	2.323	2.166	12.67
10)	MC	1,1-Dichloroethene	0.996	1.171	1.146	1.199	0.939	1.190	1.107	10.02
11)		Iodomethane							0.000	-1.00
12)		Methylene chloride	1.226	1.379	1.343	1.407	1.191	1.387	1.322	6.88
13)		Carbon disulfide	2.724	3.175	3.135	3.222	2.667	3.218	3.024	8.49
14)		methyl-Tert-Butyl E	1.820	2.167	2.349	2.371	1.852	2.251	2.135	11.38
15)		trans-1,2-Dichloroe	1.126	1.340	1.369	1.387	1.083	1.359	1.278	10.61
16)		n-Hexane	1.292	1.249	1.327	1.321	1.080	1.272	1.257	7.27
17)	P	1,1-Dichloroethane	1.725	2.159	2.225	2.254	1.778	2.175	2.053	11.52
18)		cis-1,2-Dichloroeth	1.375	1.734	1.781	1.826	1.410	1.743	1.645	12.08
19)	C	Chloroform	2.037	2.613	2.645	2.689	2.141	2.599	2.454	11.67
20)		Isooctane	3.678	4.139	4.436	4.396	3.403	4.232	4.047	10.29
21)		1,1,1-Trichloroetha	1.887	2.369	2.414	2.466	1.889	2.387	2.235	12.12
22)		Carbon tetrachlorid	1.852	2.397	2.490	2.506	1.916	2.432	2.266	13.19
23)	S	1,2-Dichloroethane	1.130	1.080	1.133	1.156	1.075	1.113	1.114	2.86
24)		1,2-Dichloroethane	1.050	1.255	1.318	1.347	1.057	1.268	1.216	10.71
25)		1,2-Dibromoethane	1.923	2.242	2.266	2.324	1.845	2.247	2.141	9.48
26)	I	1,4-Difluorobenzene I	----------ISTD----------							
27)	M	Benzene	0.635	0.738	0.733	0.729	0.644	0.738	0.703	7.00
28)	M	Trichloroethene	0.348	0.423	0.423	0.421	0.359	0.422	0.399	8.91
29)	C	1,2-Dichloropropane	0.254	0.313	0.316	0.314	0.272	0.311	0.297	9.03
30)		Bromodichloromethan	0.586	0.715	0.712	0.709	0.621	0.707	0.675	8.38
31)		cis-1,3-Dichloropro	0.397	0.473	0.481	0.479	0.404	0.471	0.451	8.69
32)	S	Toluene-d8 SURR#2	0.747	0.729	0.731	0.741	0.745	0.736	0.738	0.98
33)	MC	Toluene	0.389	0.470	0.470	0.471	0.399	0.476	0.446	9.01
34)		trans-1,3-Dichlorop	0.332	0.395	0.405	0.405	0.341	0.401	0.380	8.94
35)		1,1,2-Trichloroetha	0.271	0.310	0.311	0.309	0.262	0.307	0.295	7.56
36)	I	Chlorobenzene-d5 IS#3	----------ISTD----------							
37)		Tetrachloroethene	0.456	0.579	0.596	0.580	0.481	0.586	0.546	11.23

L = Linear LO = Linear+Origin Q = Quad QO = Quad+Origin R = Corr. Coef
(#) = Out of Range ### Number of calibration levels exceeded format ###

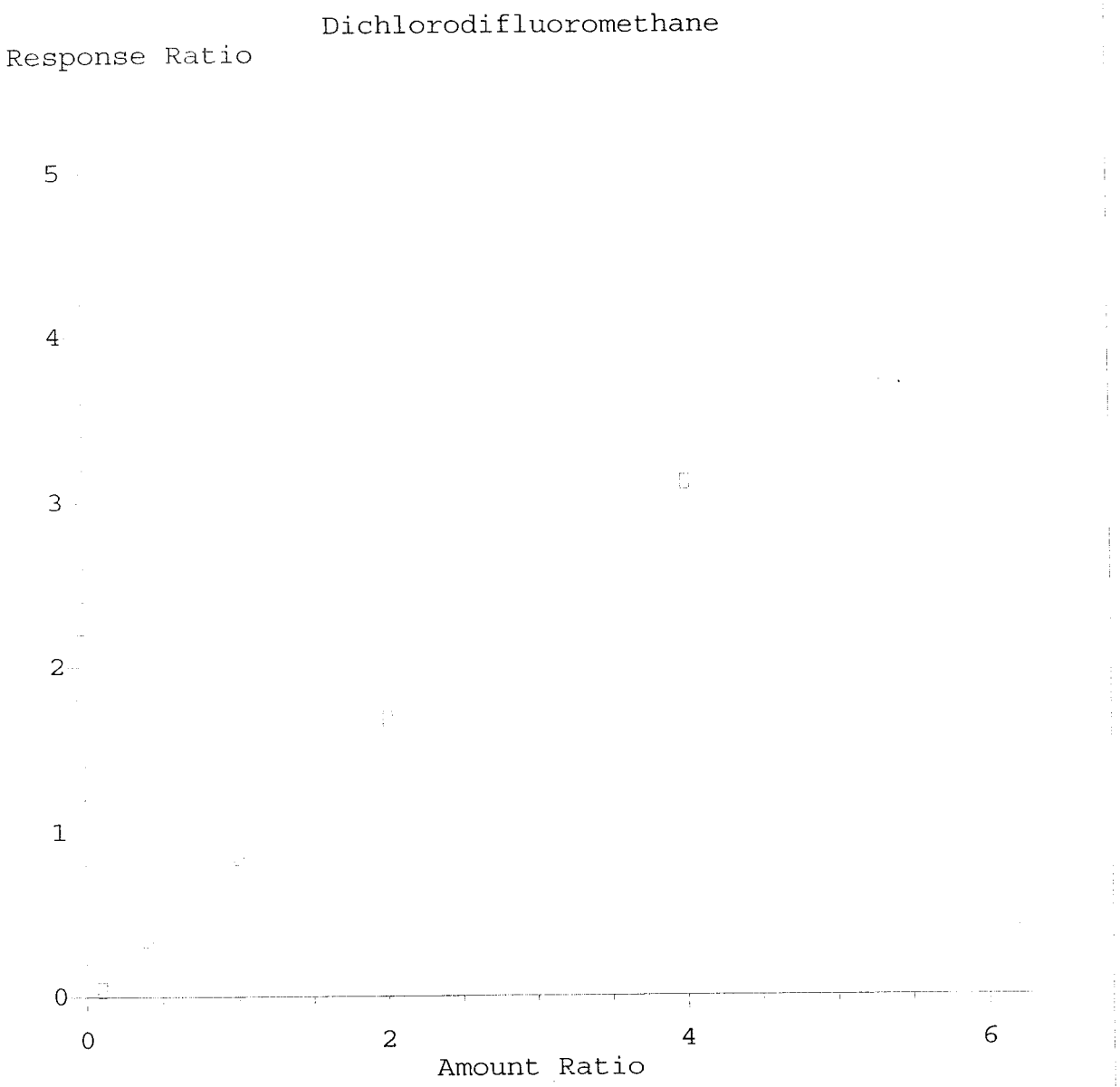
Response Factor Report MARILYN

Method : D:\HPCHEM\1\METHODS\MARILYN\CRV080502 TO14\TO14S.M (RTE In
Title : TO14
Last Update : Mon Sep 23 10:22:09 2002
Response via : Initial Calibration

Calibration Files
25 =CMA0025.D 250 =CMA0250.D 1500 =CMA1500.D
1000 =CMA1000.D 100 =CMA0100.D 500 =CMA0500.D

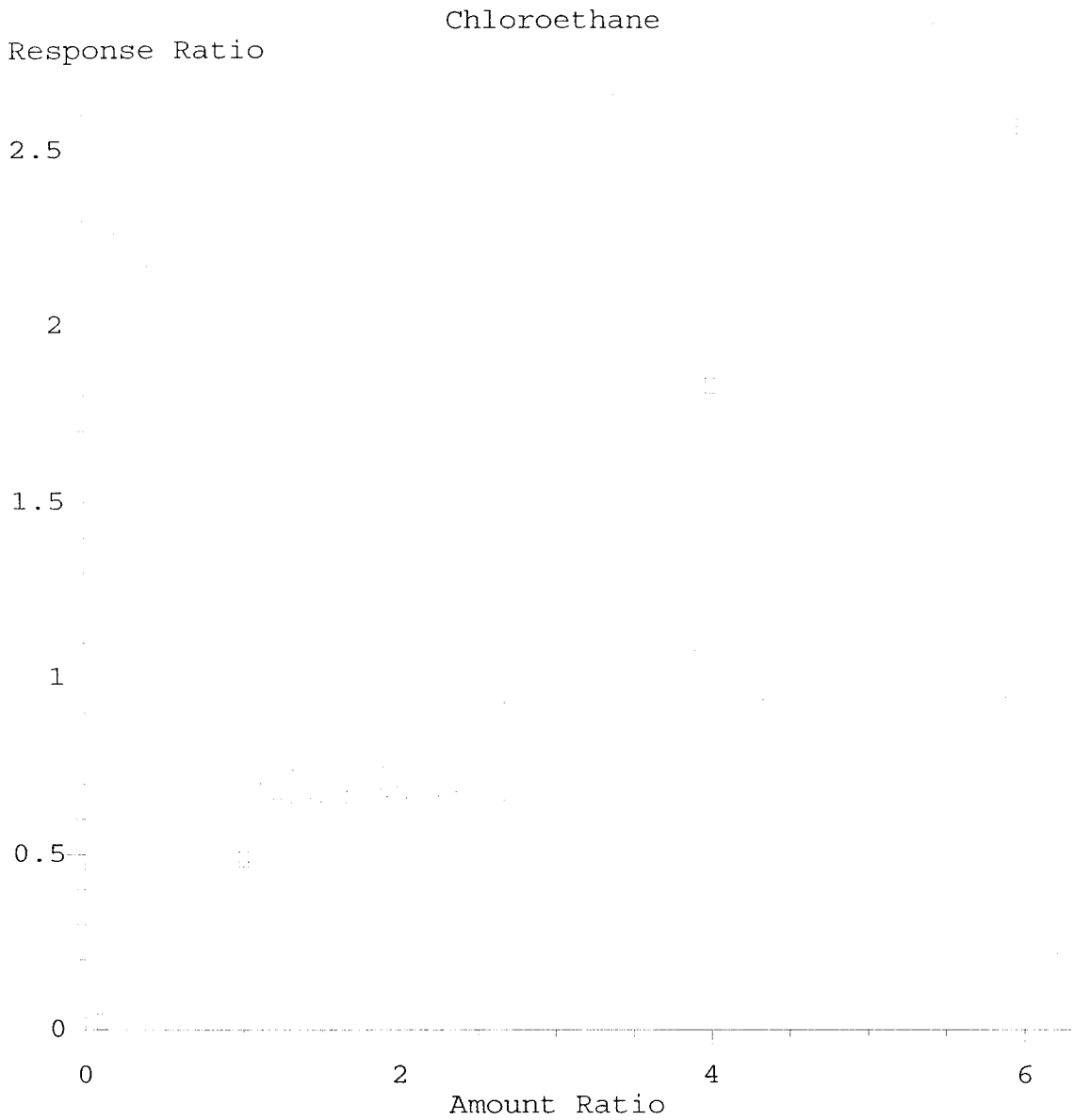
		Compound	25	250	1500	1000	100	500	Avg	%RS
38)		Dibromochloromethan	0.649	0.779	0.772	0.758	0.649	0.751	0.726	8.34
39)	MP	Chlorobenzene	0.728	0.947	0.936	0.934	0.788	0.947	0.880	10.96
40)	C	Ethylbenzene	0.284	0.366	0.374	0.368	0.305	0.374	0.345	11.54
41)		m,p-Xylene	0.342	0.454	0.448	0.455	0.371	0.453	0.421	11.96
42)		o-Xylene	0.314	0.431	0.433	0.434	0.348	0.433	0.399	13.44
43)		Styrene	0.525	0.727	0.728	0.738	0.589	0.738	0.674	13.81
44)	P	Bromoform	0.720	0.842	0.766	0.772	0.684	0.801	0.764	7.35
45)	P	1,1,2,2-Tetrachloro	0.656	0.724	0.616	0.639	0.599	0.681	0.652	6.99
46)	S	4-Bromofluorobenzen	0.785	0.776	0.748	0.762	0.785	0.783	0.773	1.96
47)		1,4-Dichloro-2-bute	0.139	0.166	0.157	0.158	0.137	0.164	0.153	8.17
48)		4-Ethyltoluene	0.871	1.059	1.035	1.062	0.834	1.135	0.999	11.92
49)		1,3,5-Trimethylbenz	0.577	0.882	0.774	0.800	0.732	0.848	0.769	14.01
50)		2-Chlorotoluene	0.856	1.052	1.063	1.089	0.898	1.077	1.006	10.07
51)		1,2,4-Trimethylbenz	0.614	0.824	0.827	0.851	0.674	0.849	0.773	13.24
52)		1,3-Dichlorobenzene	0.525	0.702	0.682	0.705	0.580	0.710	0.651	12.06
53)		1,4-Dichlorobenzene	0.531	0.715	0.701	0.729	0.611	0.738	0.671	12.30
54)		1,2-Dichlorobenzene	0.486	0.678	0.619	0.646	0.549	0.650	0.605	12.04
55)		1,2,4-Trichlorobenz	0.317	0.445	0.460	0.444	0.353	0.455	0.412	14.87
56)		Napthalene	0.489	0.633	0.669	0.650	0.465	0.601	0.585	14.86
57)		Hexachlorobutadiene	0.248	0.351	0.346	0.363	0.291	0.359	0.326	14.19

L = Linear LO = Linear+Origin Q = Quad QO = Quad+Origin R = Corr. Coef
(#) = Out of Range ### Number of calibration levels exceeded format ###
TO14S.M Mon Sep 23 10:23:46 2002 Page 2



Resp Ratio = 8.56e-001 * Amt - 3.89e-002
Coef of Det (r^2) = 0.995 Curve Fit: Linear

Method Name: D:\HPCHEM\1\METHODS\MARILYN\CRV080502 TO14\TO14S.M
Calibration Table Last Updated: Mon Sep 23 10:22:09 2002



Resp Ratio = 4.33e-001 * Amt + 3.32e-002
Coef of Det (r^2) = 0.997 Curve Fit: Linear

Method Name: D:\HPCHEM\1\METHODS\MARILYN\CRV080502 TO14\TO14S.M
Calibration Table Last Updated: Mon Sep 23 10:22:09 2002

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\MARILYN\M091602A\CM0916A.D Vial: 2
Acq On : 16 Sep 2002 10:44 am Operator: LAD
Sample : VSTD250\ DAILY CALIBRATION CHECK Inst : MARILYN
Misc : 250ng Multiplr: 1.00
MS Integration Params: rteint.p

Method : D:\HPCHEM\1\METHODS\MARILYN\CRV080502 TO14\TO14S.M (RTE Int
Title : TO14
Last Update : Mon Sep 23 10:35:24 2002
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 2% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Bromochloromethane IS#1	250.000	250.000	0.0	80	0.00
2		Dichlorodifluoromethane	250.000	259.457	-3.8#	80	0.00
3		Dichlorotetrafluoroethane	250.000	296.319	-18.5#	85	0.00
4	P	Chloromethane	250.000	277.409	-11.0#	90	0.00
5	C	Vinyl chloride	250.000	292.312	-16.9#	85	0.00
6		Bromomethane	250.000	281.780	-12.7#	97	0.00
7		Chloroethane	250.000	295.689	-18.3#	89	0.00
8		Trichlorofluoromethane	250.000	260.700	-4.3#	77	0.00
9		1,1,2-Trichlorotrifluoroeth	250.000	281.159	-12.5#	86	0.00
10	MC	1,1-Dichloroethene	250.000	271.403	-8.6#	82	0.00
11		Iodomethane	-1.000	0.000	0.0	0	-7.49#
12		Methylene chloride	250.000	272.121	-8.8#	84	0.00
13		Carbon disulfide	250.000	269.028	-7.6#	82	0.00
14		methyl-Tert-Butyl Ether	250.000	265.488	-6.2#	84	0.00
15		trans-1,2-Dichloroethene	250.000	277.327	-10.9#	85	0.00
16		n-Hexane	250.000	247.706	0.9	80	0.00
17	P	1,1-Dichloroethane	250.000	276.348	-10.5#	84	0.00
18		cis-1,2-Dichloroethene	250.000	280.168	-12.1#	85	0.00
19	C	Chloroform	250.000	281.267	-12.5#	85	0.00
20		Isooctane	250.000	261.363	-4.5#	82	0.00
21		1,1,1-Trichloroethane	250.000	277.565	-11.0#	84	0.00
22		Carbon tetrachloride	250.000	279.129	-11.7#	85	0.00
23	S	1,2-Dichloroethane d4 SURR#	250.000	253.414	-1.4	84	0.00
24		1,2-Dichloroethane	250.000	271.177	-8.5#	84	0.00
25		1,2-Dibromoethane	250.000	277.750	-11.1#	85	0.00
26	I	1,4-Difluorobenzene IS#2	250.000	250.000	0.0	86	0.00
27	M	Benzene	250.000	264.756	-5.9#	86	0.00
28	M	Trichloroethene	250.000	269.704	-7.9#	87	0.00
29	C	1,2-Dichloropropane	250.000	263.583	-5.4#	85	0.00
30		Bromodichloromethane	250.000	265.642	-6.3#	86	0.00
31		cis-1,3-Dichloropropene	250.000	260.787	-4.3#	85	0.00
32	S	Toluene-d8 SURR#2	250.000	244.299	2.3#	85	0.00
33	MC	Toluene	250.000	269.490	-7.8#	87	0.00
34		trans-1,3-Dichloropropene	250.000	258.905	-3.6#	85	0.00
35		1,1,2-Trichloroethane	250.000	263.690	-5.5#	86	0.00
36	I	Chlorobenzene-d5 IS#3	250.000	250.000	0.0	86	0.00
37		Tetrachloroethene	250.000	266.004	-6.4#	87	0.00
38		Dibromochloromethane	250.000	266.154	-6.5#	86	0.00
39	MP	Chlorobenzene	250.000	269.387	-7.8#	86	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\MARILYN\M091602A\CM0916A.D Vial: 2
Acq On : 16 Sep 2002 10:44 am Operator: LAD
Sample : VSTD250\ DAILY CALIBRATION CHECK Inst : MARILYN
Misc : 250ng Multiplr: 1.00
MS Integration Params: rteint.p

Method : D:\HPCHEM\1\METHODS\MARILYN\CRV080502 TO14\TO14S.M (RTE Int
Title : TO14
Last Update : Mon Sep 23 10:35:24 2002
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 2% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
40	C	Ethylbenzene	250.000	267.592	-7.0#	87	0.00
41		m,p-Xylene	500.000	544.063	-8.8#	87	0.00
42		o-Xylene	250.000	267.624	-7.0#	86	0.00
43		Styrene	250.000	268.012	-7.2#	86	0.00
44	P	Bromoform	250.000	270.352	-8.1#	85	0.00
45	P	1,1,2,2-Tetrachloroethane	250.000	276.978	-10.8#	86	0.00
46	S	4-Bromofluorobenzene SURR#3	250.000	250.382	-0.2	86	0.00
47		1,4-Dichloro-2-butene	250.000	256.919	-2.8#	82	0.00
48		4-Ethyltoluene	250.000	260.884	-4.4#	85	0.00
49		1,3,5-Trimethylbenzene	250.000	302.725	-21.1#	91	0.00
50		2-Chlorotoluene	250.000	267.308	-6.9#	88	0.00
51		1,2,4-Trimethylbenzene	250.000	281.053	-12.4#	91	0.00
52		1,3-Dichlorobenzene	250.000	275.753	-10.3#	88	0.00
53		1,4-Dichlorobenzene	250.000	274.639	-9.9#	89	0.00
54		1,2-Dichlorobenzene	250.000	282.680	-13.1#	87	0.00
55		1,2,4-Trichlorobenzene	250.000	282.853	-13.1#	91	0.00
56		Napthalene	250.000	267.546	-7.0#	85	0.00
57		Hexachlorobutadiene	250.000	273.933	-9.6#	88	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\MARILYN\M091602A\CM0916A.D Vial: 2
Acq On : 16 Sep 2002 10:44 am Operator: LAD
Sample : VSTD250\ DAILY CALIBRATION CHECK Inst : MARILYN
Misc : 250ng Multiplr: 1.00
MS Integration Params: rteint.p

Method : D:\HPCHEM\1\METHODS\MARILYN\CRV080502 TO14\TO14S.M (RTE Int
Title : TO14
Last Update : Mon Sep 23 10:35:24 2002
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 2% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane IS#1	1.000	1.000	0.0	80	0.00
2		Dichlorodifluoromethane	0.776	0.843	-8.6#	80	0.00
3		Dichlorotetrafluoroethane	1.201	1.423	-18.5#	85	0.00
4	P	Chloromethane	0.753	0.835	-10.9#	90	0.00
5	C	Vinyl chloride	0.658	0.769	-16.9#	85	0.00
6		Bromomethane	0.625	0.705	-12.8#	97	0.00
7		Chloroethane	0.416	0.540	-29.8#	89	0.00
8		Trichlorofluoromethane	2.508	2.616	-4.3#	77	0.00
9		1,1,2-Trichlorotrifluoroeth	2.166	2.436	-12.5#	86	0.00
10	MC	1,1-Dichloroethene	1.107	1.202	-8.6#	82	0.00
11		Iodomethane	0.000	0.000	0.0	0#	-7.49#
12		Methylene chloride	1.322	1.439	-8.9#	84	0.00
13		Carbon disulfide	3.024	3.254	-7.6#	82	0.00
14		methyl-Tert-Butyl Ether	2.135	2.267	-6.2#	84	0.00
15		trans-1,2-Dichloroethene	1.278	1.417	-10.9#	85	0.00
16		n-Hexane	1.257	1.245	1.0	80	0.00
17	P	1,1-Dichloroethane	2.053	2.269	-10.5#	84	0.00
18		cis-1,2-Dichloroethene	1.645	1.843	-12.0#	85	0.00
19	C	Chloroform	2.454	2.761	-12.5#	85	0.00
20		Isooctane	4.047	4.231	-4.5#	82	0.00
21		1,1,1-Trichloroethane	2.235	2.482	-11.1#	84	0.00
22		Carbon tetrachloride	2.266	2.530	-11.7#	85	0.00
23	S	1,2-Dichloroethane d4 SURR#	1.114	1.130	-1.4	84	0.00
24		1,2-Dichloroethane	1.216	1.319	-8.5#	84	0.00
25		1,2-Dibromoethane	2.141	2.379	-11.1#	85	0.00
26	I	1,4-Difluorobenzene IS#2	1.000	1.000	0.0	86	0.00
27	M	Benzene	0.703	0.744	-5.8#	86	0.00
28	M	Trichloroethene	0.399	0.431	-8.0#	87	0.00
29	C	1,2-Dichloropropane	0.297	0.313	-5.4#	85	0.00
30		Bromodichloromethane	0.675	0.717	-6.2#	86	0.00
31		cis-1,3-Dichloropropene	0.451	0.470	-4.2#	85	0.00
32	S	Toluene-d8 SURR#2	0.738	0.721	2.3#	85	0.00
33	MC	Toluene	0.446	0.480	-7.6#	87	0.00
34		trans-1,3-Dichloropropene	0.380	0.393	-3.4#	85	0.00
35		1,1,2-Trichloroethane	0.295	0.311	-5.4#	86	0.00
36	I	Chlorobenzene-d5 IS#3	1.000	1.000	0.0	86	0.00
37		Tetrachloroethene	0.546	0.581	-6.4#	87	0.00
38		Dibromochloromethane	0.726	0.773	-6.5#	86	0.00
39	MP	Chlorobenzene	0.880	0.948	-7.7#	86	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\MARILYN\M091602A\CM0916A.D Vial: 2
Acq On : 16 Sep 2002 10:44 am Operator: LAD
Sample : VSTD250\ DAILY CALIBRATION CHECK Inst : MARILYN
Misc : 250ng Multiplr: 1.00
MS Integration Params: rteint.p

Method : D:\HPCHEM\1\METHODS\MARILYN\CRV080502 TO14\TO14S.M (RTE Int
Title : TO14
Last Update : Mon Sep 23 10:35:24 2002
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 2% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
40	C	Ethylbenzene	0.345	0.369	-7.0#	87	0.00
41		m,p-Xylene	0.421	0.458	-8.8#	87	0.00
42		o-Xylene	0.399	0.427	-7.0#	86	0.00
43		Styrene	0.674	0.723	-7.3#	86	0.00
44	P	Bromoform	0.764	0.826	-8.1#	85	0.00
45	P	1,1,2,2-Tetrachloroethane	0.652	0.723	-10.9#	86	0.00
46	S	4-Bromofluorobenzene SURR#3	0.773	0.774	-0.1	86	0.00
47		1,4-Dichloro-2-butene	0.153	0.158	-3.3#	82	0.00
48		4-Ethyltoluene	0.999	1.043	-4.4#	85	0.00
49		1,3,5-Trimethylbenzene	0.769	0.931	-21.1#	91	0.00
50		2-Chlorotoluene	1.006	1.076	-7.0#	88	0.00
51		1,2,4-Trimethylbenzene	0.773	0.869	-12.4#	91	0.00
52		1,3-Dichlorobenzene	0.651	0.718	-10.3#	88	0.00
53		1,4-Dichlorobenzene	0.671	0.737	-9.8#	89	0.00
54		1,2-Dichlorobenzene	0.605	0.684	-13.1#	87	0.00
55		1,2,4-Trichlorobenzene	0.412	0.467	-13.3#	91	0.00
56		Napthalene	0.585	0.626	-7.0#	85	0.00
57		Hexachlorobutadiene	0.326	0.357	-9.5#	88	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL PENSACOLA Contract: N/A

Lab Code: STL PN Case No.: N/A SAS No.: N/A SDG No.: C209257

Lab File ID (Standard): CM0916A.D Date Analyzed: 9/16/02

Instrument ID: MARILYN Time Analyzed: 10:44

GC Column: CAP ID: 0.53 (mm) Heated Purge: (Y/N) N

		IS1BCM		IS2DFB		IS3CLB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	412119	11.07	1826554	12.99	1250080	20.23
	UPPER LIMIT	824238	11.57	3653108	13.49	2500160	20.73
	LOWER LIMIT	206060	10.57	913277	12.49	625040	19.73
	EPA SAMPLE NO.						
01	VBLKMA	433169	11.07	1812868	12.99	1260611	20.23
02	LCS AND 2ND	403462	11.08	1740894	13.00	1210599	20.24
03	SVEEA	353929	11.06	1745057	12.98	1202470	20.22

IS1 BCM = Bromochloromethane IS#
IS2 DFB = 1,4-Difluorobenzene IS#2
IS3 CLB = Chlorobenzene-d5 IS#3

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.
* Values outside of contract required QC limits

STL Pensacola / GCMS Volatiles Run Log

Date 8-5-02 Instrument ID : MARILYN Method : TO14 /8260AIR /8260WATER /624MOD New-To 14 Curve

Batch MA8135 1 2 3 Batch _____ 1 2 3 37B #8/6

IS# 8 -MSW- 34 - 1 TO14 8 -MSW- 32 - 1 AIR-SPK 8 -MSW- 36 - 2 Maint. _____

BFB 8 -MSW- 34 - 1 8260 -MSW- - W-SPK -MSW- -

TIME	POS # 1	METH	FILE NAME/ SAMPLE ID	DIL.	RR	PRES	MATRIX	QC PASS**	*INIT	COMMENTS
13:21		BFBSTL	BFM08054	50ppb			W		BOH	Daily 12 hour BFB Tune
14:33	3	To14S.m	CMA0250	50ppb			W		BOH	Daily Cal Check / ~~BFB tune~~ BH 8/5 / 250ng ICAL 100
13:55	2	To14S.m	MA135 A BK	ST						Daily Method Blank
18:17	9		M A135 LCS	50ppb						Batch# 135 LCS
15:11	4		CMA0025	5ppb		Y N				25ng ICAL
15:48	5		0100	20ppb		Y N				100ng
16:23	6		0500	100ppb		Y N				500ng
17:00	7		1000	200ppb		Y N				1000ng
17:38	8		1500	300ppb		Y N				1500ng
14:33	3		CMA0250	50ppb		Y N				250ng (CCV also)
N/A	10		7511-1S	X100		Y N	A(TO14)			5mls screens only
:	11		-2S			Y N				
:	12		-3S			Y N				
:	13		7585-1S			Y N				
:	14		8022-4S			Y N				
	15		-5S			Y N				
:						Y N				
:						Y N				
:						Y N				
:						Y N				BH 8/5/02
:						Y N				
:						Y N				
:						Y N				

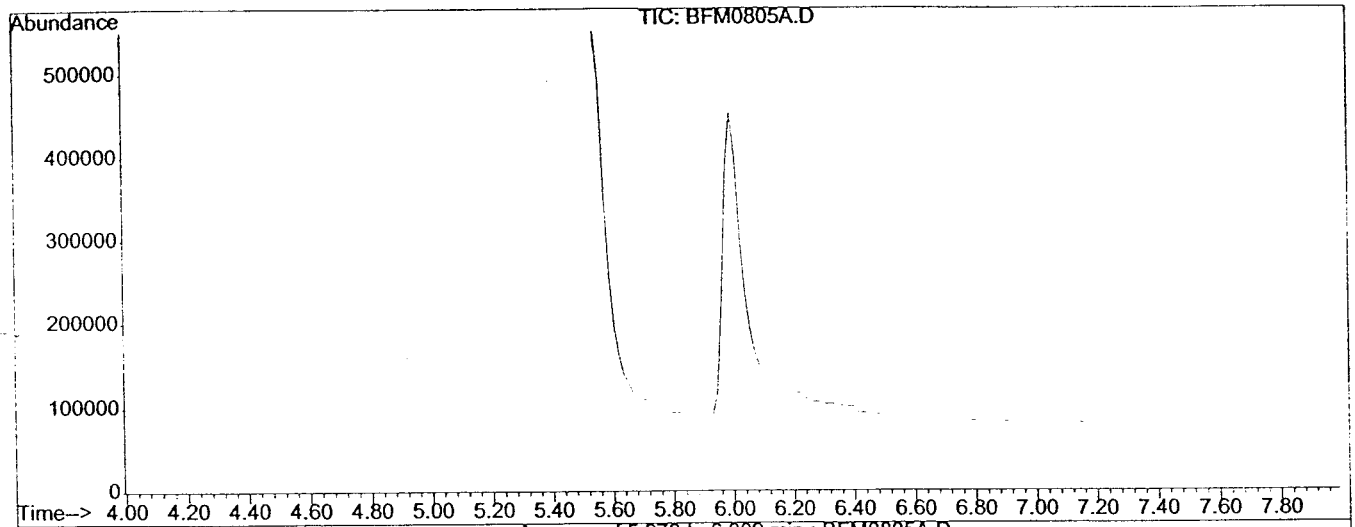
The analyst whose name appears above is the analyst who removed the sample(s) from the sample storage refrigerator, maintained custody during analysis and relinquished sample(s) back to the sample storage refrigerator.

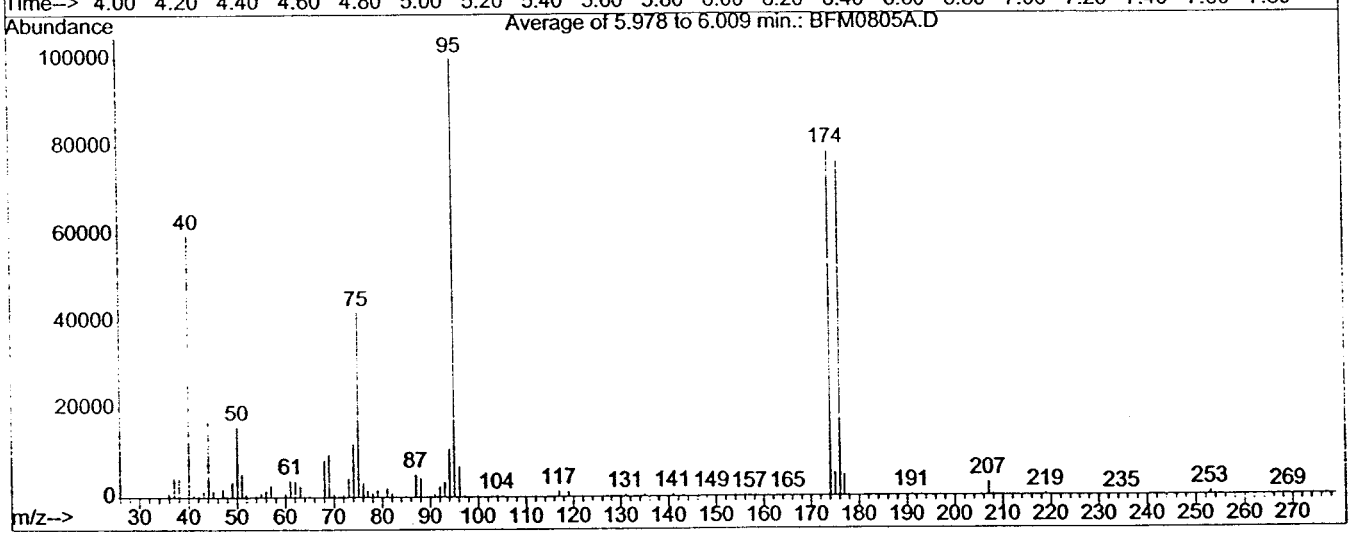
Tes and surrogates were checked automatically using the [illegible]

33

CTO-0062, NAS Cecil Field

Data File : D:\HPCHEM\1\DATA\MARILYN\2M0805A\BFM0805A.D Vial: 1
Acq On : 5 Aug 2002 1:21 pm Operator: BDH
Sample : DAILY BFB 12HR. TUNE 50ppb Inst : MARILYN
Misc : Pi/Pf=1 MA135ABK BFB TUNE CHECK Multiplr: 1.00
MS Integration Params: rteint.p
Method : D:\HPCHEM\1\METHODS\MARILYN\CRV080502 TO14\TO14S.M (RTE Int
Title : TO14





Spectrum Information: Average of 5.978 to 6.009 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.9	15931	PASS
75	95	30	60	42.2	42230	PASS
95	95	100	100	100.0	100000	PASS
96	95	5	9	6.8	6750	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	78.6	78645	PASS
175	174	5	9	6.8	5326	PASS
176	174	95	101	97.0	76313	PASS
177	176	5	9	6.4	4891	PASS

BFM0805A.D TO14S.M Tue Sep 03 16:16:46 2002

Response Factor Report MARILYN

Method : D:\HPCHEM\1\METHODS\MARILYN\CRV080502 TO14\TO14S.M (RTE Int
Title : TO14
Last Update : Mon Sep 23 10:22:09 2002
Response via : Initial Calibration

Calibration Files
25 =CMA0025.D 250 =CMA0250.D 1500 =CMA1500.D
1000 =CMA1000.D 100 =CMA0100.D 500 =CMA0500.D

		Compound	25	250	1500	1000	100	500	Avg	%RSI
1)	I	Bromochloromethane IS	----------ISTD----------							
2)		Dichlorodifluoromet	0.448	0.847	0.878	0.778	0.867	0.840	-----	
							L	M= 0.856	R^2=0.99	
								B= -0.039		
3)		Dichlorotetrafluoro	0.998	1.337	1.160	1.246	1.143	1.322	1.201	10.63
4)	P	Chloromethane	0.682	0.744	0.862	0.839	0.633	0.756	0.753	11.71
5)	C	Vinyl chloride	0.505	0.728	0.693	0.698	0.616	0.708	0.658	12.82
6)		Bromomethane	0.629	0.584	0.674	0.678	0.529	0.658	0.625	9.36
7)		Chloroethane	0.241	0.488	0.428	0.457	0.407	0.475	-----	
							L	M= 0.433	R^2=0.99	
								B= 0.033		
8)		Trichlorofluorometh	2.161	2.739	2.489	2.644	2.251	2.766	2.508	10.17
9)		1,1,2-Trichlorotrif	1.789	2.282	2.376	2.383	1.842	2.323	2.166	12.67
10)	MC	1,1-Dichloroethene	0.996	1.171	1.146	1.199	0.939	1.190	1.107	10.02
11)		Iodomethane							0.000	-1.00
12)		Methylene chloride	1.226	1.379	1.343	1.407	1.191	1.387	1.322	6.88
13)		Carbon disulfide	2.724	3.175	3.135	3.222	2.667	3.218	3.024	8.49
14)		methyl-Tert-Butyl E	1.820	2.167	2.349	2.371	1.852	2.251	2.135	11.38
15)		trans-1,2-Dichloroe	1.126	1.340	1.369	1.387	1.083	1.359	1.278	10.61
16)		n-Hexane	1.292	1.249	1.327	1.321	1.080	1.272	1.257	7.27
17)	P	1,1-Dichloroethane	1.725	2.159	2.225	2.254	1.778	2.175	2.053	11.52
18)		cis-1,2-Dichloroeth	1.375	1.734	1.781	1.826	1.410	1.743	1.645	12.08
19)	C	Chloroform	2.037	2.613	2.645	2.689	2.141	2.599	2.454	11.67
20)		Isooctane	3.678	4.139	4.436	4.396	3.403	4.232	4.047	10.29
21)		1,1,1-Trichloroetha	1.887	2.369	2.414	2.466	1.889	2.387	2.235	12.12
22)		Carbon tetrachlorid	1.852	2.397	2.490	2.506	1.916	2.432	2.266	13.19
23)	S	1,2-Dichloroethane	1.130	1.080	1.133	1.156	1.075	1.113	1.114	2.86
24)		1,2-Dichloroethane	1.050	1.255	1.318	1.347	1.057	1.268	1.216	10.71
25)		1,2-Dibromoethane	1.923	2.242	2.266	2.324	1.845	2.247	2.141	9.48
26)	I	1,4-Difluorobenzene I	----------ISTD----------							
27)	M	Benzene	0.635	0.738	0.733	0.729	0.644	0.738	0.703	7.00
28)	M	Trichloroethene	0.348	0.423	0.423	0.421	0.359	0.422	0.399	8.91
29)	C	1,2-Dichloropropane	0.254	0.313	0.316	0.314	0.272	0.311	0.297	9.03
30)		Bromodichloromethan	0.586	0.715	0.712	0.709	0.621	0.707	0.675	8.38
31)		cis-1,3-Dichloropro	0.397	0.473	0.481	0.479	0.404	0.471	0.451	8.69
32)	S	Toluene-d8 SURR#2	0.747	0.729	0.731	0.741	0.745	0.736	0.738	0.98
33)	MC	Toluene	0.389	0.470	0.470	0.471	0.399	0.476	0.446	9.01
34)		trans-1,3-Dichlorop	0.332	0.395	0.405	0.405	0.341	0.401	0.380	8.94
35)		1,1,2-Trichloroetha	0.271	0.310	0.311	0.309	0.262	0.307	0.295	7.56
36)	I	Chlorobenzene-d5 IS#3	----------ISTD----------							
37)		Tetrachloroethene	0.456	0.579	0.596	0.580	0.481	0.586	0.546	11.23

L = Linear LO = Linear+Origin Q = Quad QO = Quad+Origin R = Corr. Coef
(#) = Out of Range ### Number of calibration levels exceeded format ###

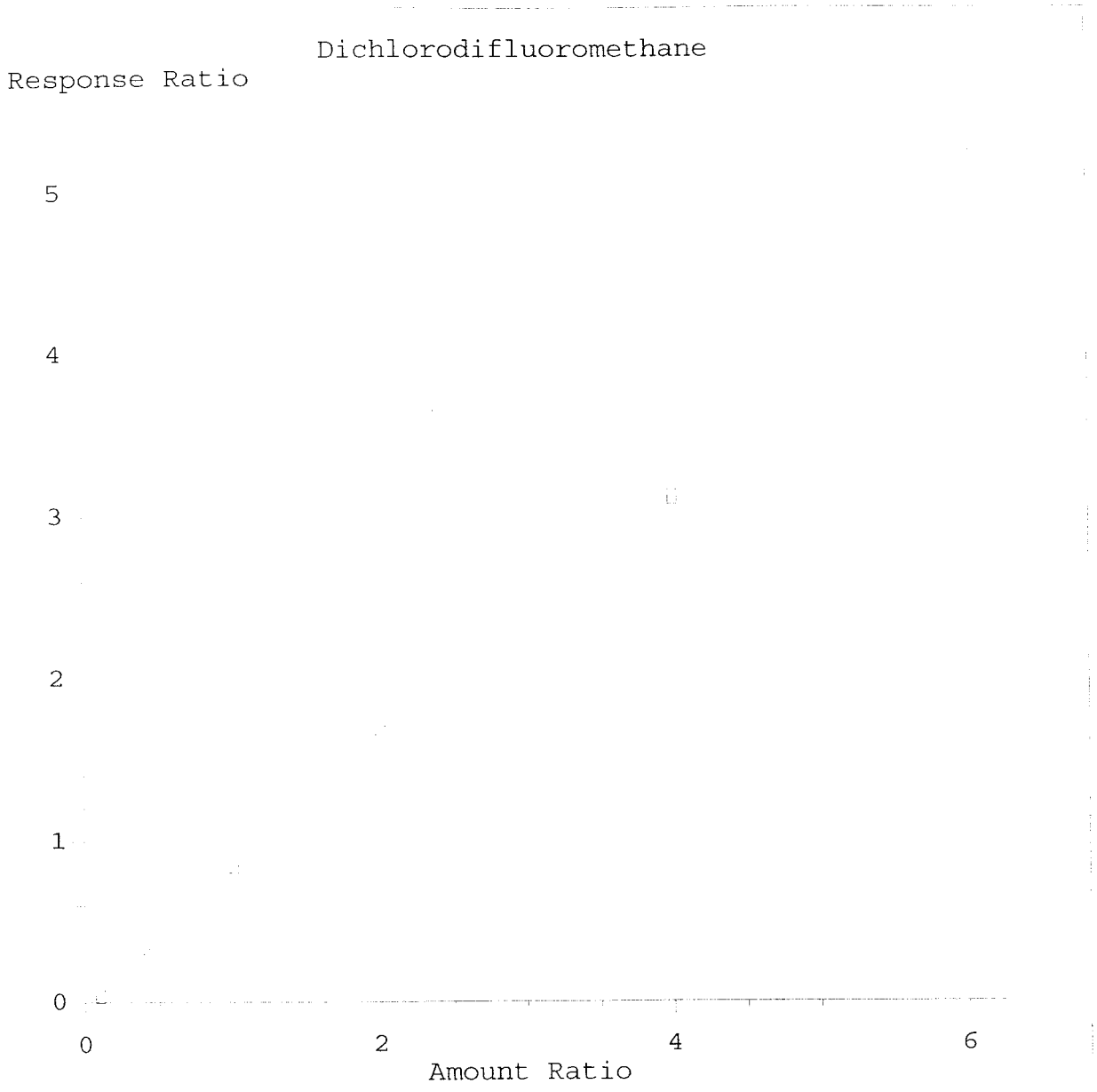
Response Factor Report MARILYN

Method : D:\HPCHEM\1\METHODS\MARILYN\CRV080502 TO14\TO14S.M (RTE In
Title : TO14
Last Update : Mon Sep 23 10:22:09 2002
Response via : Initial Calibration

Calibration Files
25 =CMA0025.D 250 =CMA0250.D 1500 =CMA1500.D
1000 =CMA1000.D 100 =CMA0100.D 500 =CMA0500.D

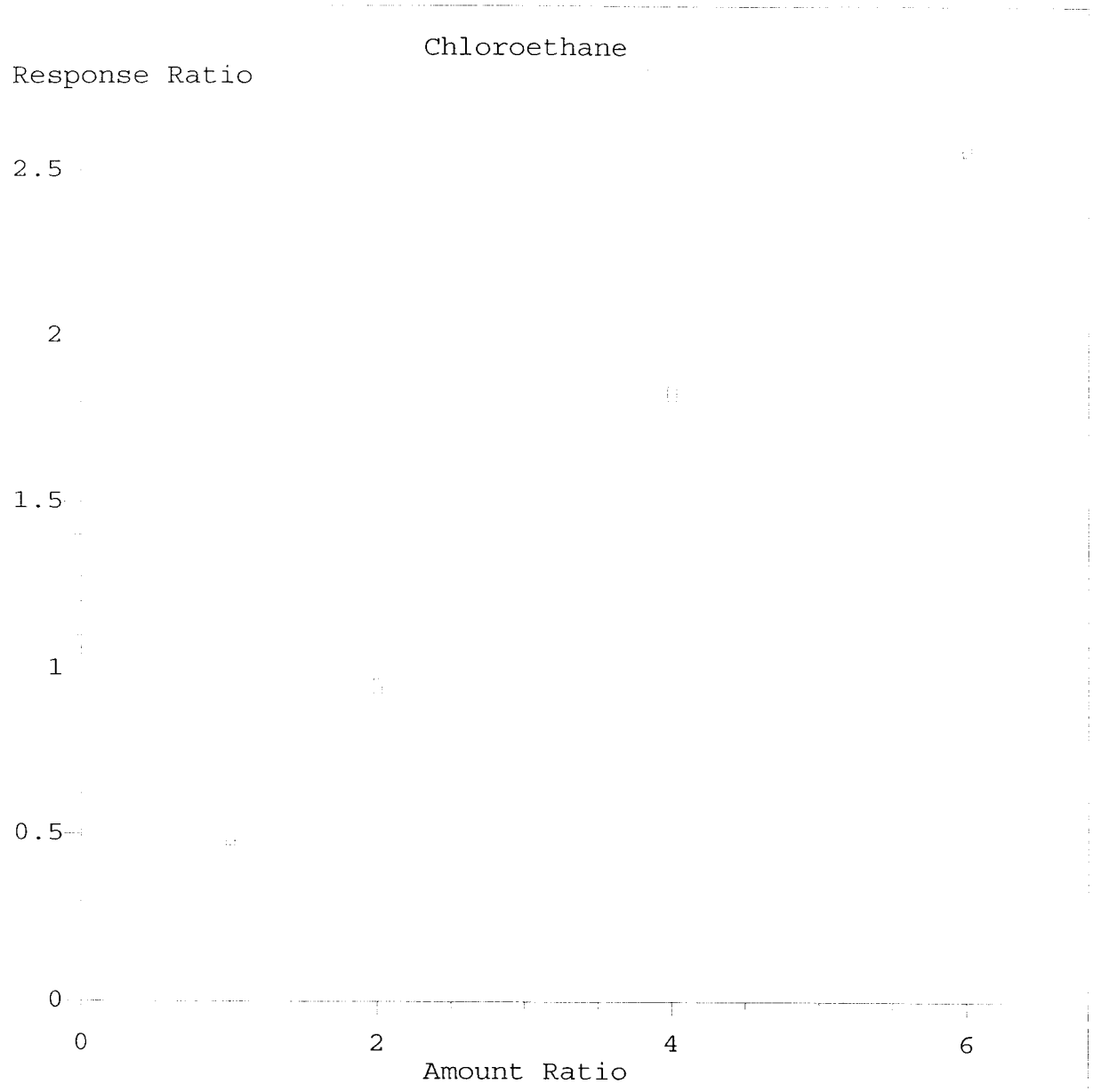
		Compound	25	250	1500	1000	100	500	Avg	%RS
38)		Dibromochloromethan	0.649	0.779	0.772	0.758	0.649	0.751	0.726	8.34
39)	MP	Chlorobenzene	0.728	0.947	0.936	0.934	0.788	0.947	0.880	10.96
40)	C	Ethylbenzene	0.284	0.366	0.374	0.368	0.305	0.374	0.345	11.54
41)		m,p-Xylene	0.342	0.454	0.448	0.455	0.371	0.453	0.421	11.96
42)		o-Xylene	0.314	0.431	0.433	0.434	0.348	0.433	0.399	13.44
43)		Styrene	0.525	0.727	0.728	0.738	0.589	0.738	0.674	13.81
44)	P	Bromoform	0.720	0.842	0.766	0.772	0.684	0.801	0.764	7.35
45)	P	1,1,2,2-Tetrachloro	0.656	0.724	0.616	0.639	0.599	0.681	0.652	6.99
46)	S	4-Bromofluorobenzen	0.785	0.776	0.748	0.762	0.785	0.783	0.773	1.96
47)		1,4-Dichloro-2-bute	0.139	0.166	0.157	0.158	0.137	0.164	0.153	8.17
48)		4-Ethyltoluene	0.871	1.059	1.035	1.062	0.834	1.135	0.999	11.92
49)		1,3,5-Trimethylbenz	0.577	0.882	0.774	0.800	0.732	0.848	0.769	14.01
50)		2-Chlorotoluene	0.856	1.052	1.063	1.089	0.898	1.077	1.006	10.07
51)		1,2,4-Trimethylbenz	0.614	0.824	0.827	0.851	0.674	0.849	0.773	13.24
52)		1,3-Dichlorobenzene	0.525	0.702	0.682	0.705	0.580	0.710	0.651	12.06
53)		1,4-Dichlorobenzene	0.531	0.715	0.701	0.729	0.611	0.738	0.671	12.30
54)		1,2-Dichlorobenzene	0.486	0.678	0.619	0.646	0.549	0.650	0.605	12.04
55)		1,2,4-Trichlorobenz	0.317	0.445	0.460	0.444	0.353	0.455	0.412	14.87
56)		Napthalene	0.489	0.633	0.669	0.650	0.465	0.601	0.585	14.86
57)		Hexachlorobutadiene	0.248	0.351	0.346	0.363	0.291	0.359	0.326	14.19

L = Linear LO = Linear+Origin Q = Quad QO = Quad+Origin R = Corr. Coef
(#) = Out of Range ### Number of calibration levels exceeded format ###



Resp Ratio = 8.56e-001 * Amt - 3.89e-002
Coef of Det (r^2) = 0.995 Curve Fit: Linear

Method Name: D:\HPCHEM\1\METHODS\MARILYN\CRV080502 TO14\TO14S.M
Calibration Table Last Updated: Mon Sep 23 10:22:09 2002



Resp Ratio = 4.33e-001 * Amt + 3.32e-002
Coef of Det (r^2) = 0.997 Curve Fit: Linear

Method Name: D:\HPCHEM\1\METHODS\MARILYN\CRV080502 TO14\TO14S.M
Calibration Table Last Updated: Mon Sep 23 10:22:09 2002

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0025.D Vial: 4
Acq On : 5 Aug 2002 15:11 Operator: BDH
Sample : 25ng/1uL/5ppb INITIAL CALIB. Inst : MARILYN
Misc : Pi/Pf=1 MA135ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 6 9:08 2002 Quant Results File: TO14S.RES

Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Aug 05 15:36:43 2002
Response via : Initial Calibration
DataAcq Meth : TO14S
IS QA File : D:\HPCHEM\1\DATA02\M0805A\CMA0250.D (5 Aug 2002 14:33)

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) Bromochloromethane IS#1	11.05	128	525323	250.00	ng	0.00 102.25%
26) 1,4-Difluorobenzene IS#2	12.96	114	2110562	250.00	ng	0.00 98.85%
36) Chlorobenzene-d5 IS#3	20.20	117	1475437	250.00	ng	0.00 101.94%

System Monitoring Compounds

23) 1,2-Dichloroethane d4 SURR	12.17	65	593404	266.18	ng	0.00
Spiked Amount 250.000 Range 61 - 140 Recovery = 106.47%						
32) Toluene-d8 SURR#2	16.47	98	1576268	244.71	ng	0.00
Spiked Amount 250.000 Range 90 - 109 Recovery = 97.88%						
46) 4-Bromofluorobenzene SURR#	23.32	95	1157795	238.66	ng	0.00
Spiked Amount 250.000 Range 87 - 112 Recovery = 95.46%						

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.73	85	23511m	14.27	ng	# 93
3) Dichlorotetrafluoroethane	3.82	135	52402m	26.75	ng	# 19
4) Chloromethane	4.13	50	35817	29.31	ng	# 83
5) Vinyl chloride	4.41	62	26503	20.40	ng	# 48
6) Bromomethane	5.12	94	33029	17.91	ng	# 66
7) Chloroethane	5.25	64	12653	13.11	ng	# 61
8) Trichlorofluoromethane	5.70	101	113509	23.16	ng	98
9) 1,1,2-Trichlorotrifluoroet	6.50	151	93981	22.41	ng	83
10) 1,1-Dichloroethene	6.85	96	52328	25.50	ng	# 77
12) Methylene chloride	7.75	49	64415	24.73	ng	# 91
13) Carbon disulfide	7.85	76	143116	25.23	ng	96
14) methyl-Tert-Butyl Ether	8.06	73	95627	23.87	ng	# 88
15) trans-1,2-Dichloroethene	8.34	96	59128	24.62	ng	86
16) n-Hexane	8.46	57	67869	31.05	ng	# 1
17) 1,1-Dichloroethane	9.14	63	90595	23.03	ng	# 97
18) cis-1,2-Dichloroethene	10.37	61	72220	22.95	ng	89
19) Chloroform	10.70	83	107007	22.28	ng	98
20) Isooctane	11.66	57	193210	25.83	ng	81
21) 1,1,1-Trichloroethane	11.53	97	99134	22.43	ng	92
22) Carbon tetrachloride	12.09	117	97294	20.80	ng	96
24) 1,2-Dichloroethane	12.37	62	55135	22.98	ng	96
25) 1,2-Dibromoethane	19.25	107	100996	23.17	ng	100
27) Benzene	12.43	78	134095	24.12	ng	93

(#) = qualifier out of range (m) = manual integration
CMA0025.D TO14S.M Tue Aug 06 09:08:46 2002 Page 1

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0025.D Vial: 4
Acq On : 5 Aug 2002 15:11 Operator: BDH
Sample : 25ng/1uL/5ppb INITIAL CALIB. Inst : MARILYN
Misc : Pi/Pf=1 MA135ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 6 9:08 2002 Quant Results File: TO14S.RES

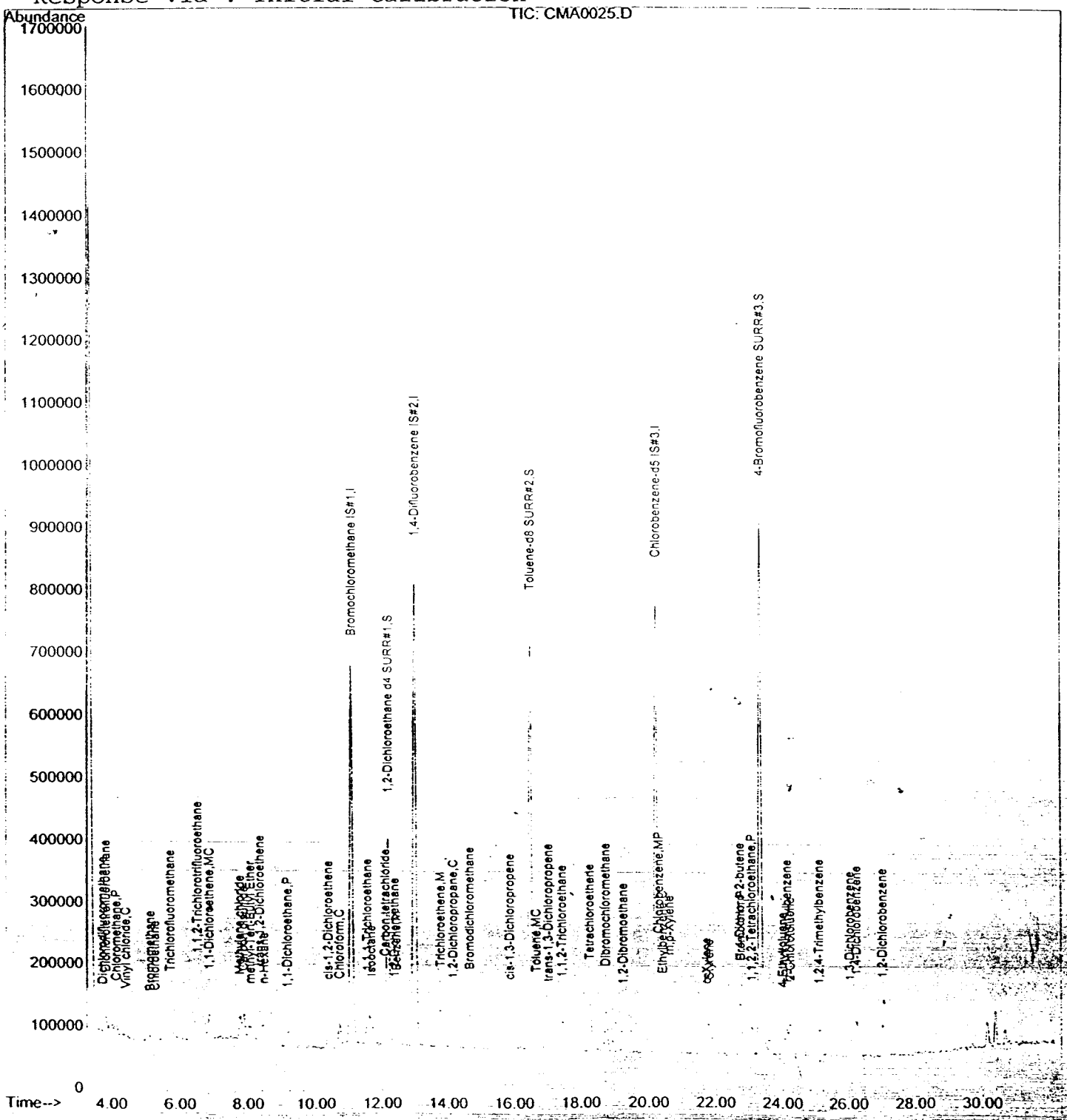
Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Aug 05 15:36:43 2002
Response via : Initial Calibration
DataAcq Meth : TO14S

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
28)	Trichloroethene	13.75	130	73470	21.80 ng		92
29)	1,2-Dichloropropane	14.14	63	53636	22.52 ng		99
30)	Bromodichloromethane	14.65	83	123603	22.02 ng		100
31)	cis-1,3-Dichloropropene	15.87	75	83746	22.67 ng		99
33)	Toluene	16.66	92	82066	21.08 ng	#	98
34)	trans-1,3-Dichloropropene	17.01	75	70070	22.50 ng		96
35)	1,1,2-Trichloroethane	17.42	97	57189	23.12 ng		96
37)	Tetrachloroethene	18.26	164	67210	21.15 ng		91
38)	Dibromochloromethane	18.74	127	95791	23.49 ng	#	93
39)	Chlorobenzene	20.29	112	107446	20.49 ng		97
40)	Ethylbenzene	20.40	106	41895	20.30 ng		99
41)	m,p-Xylene	20.60	106	101034	37.73 ng		100
42)	o-Xylene	21.72	106	46397	17.94 ng		95
43)	Styrene	21.80	104	77440	17.52 ng		96
44)	Bromoform	22.74	173	106247	23.74 ng		98
45)	1,1,2,2-Tetrachloroethane	23.07	83	96850	26.91 ng	#	97
47)	1,4-Dichloro-2-butene	22.73	75	20485	26.54 ng	#	86
48)	4-Ethyltoluene	24.00	105	128518	19.73 ng	#	89
49)	1,3,5-Trimethylbenzene	24.13	105	85179	16.44 ng	#	82
50)	2-Chlorotoluene	24.22	91	126306	19.26 ng		97
51)	1,2,4-Trimethylbenzene	25.09	105	90654	17.12 ng		98
52)	1,3-Dichlorobenzene	26.04	146	77461	17.12 ng	#	92
53)	1,4-Dichlorobenzene	26.24	146	78283	16.58 ng	#	90
54)	1,2-Dichlorobenzene	27.01	146	71720	16.98 ng	#	91
55)	1,2,4-Trichlorobenzene	30.15	180	46712	Below Cal		95
56)	Napthalene	30.68	128	72114	Below Cal	#	85
57)	Hexachlorobutadiene	30.38	225	36641	Below Cal		96

(#) = qualifier out of range (m) = manual integration
CMA0025.D TO14S.M Tue Aug 06 09:08:46 2002 Page

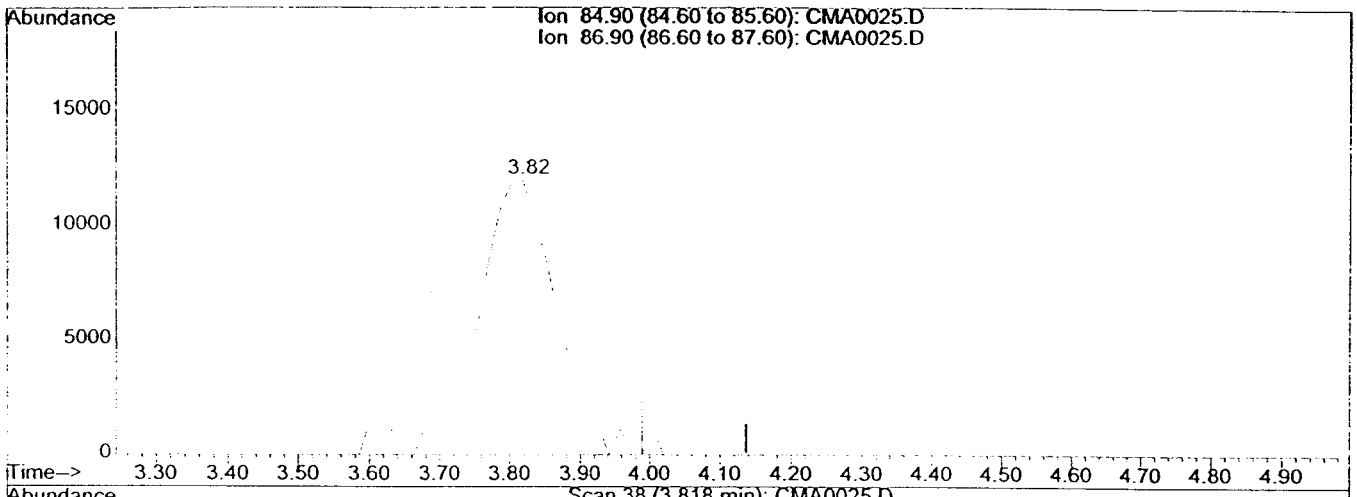
Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0025.D Vial: 4
Acq On : 5 Aug 2002 15:11 Operator: BDH
Sample : 25ng/1uL/5ppb INITIAL CALIB. Inst : MARILYN
Misc : Pi/Pf=1 MA135ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 6 9:08 2002 Quant Results File: TO14S.RES

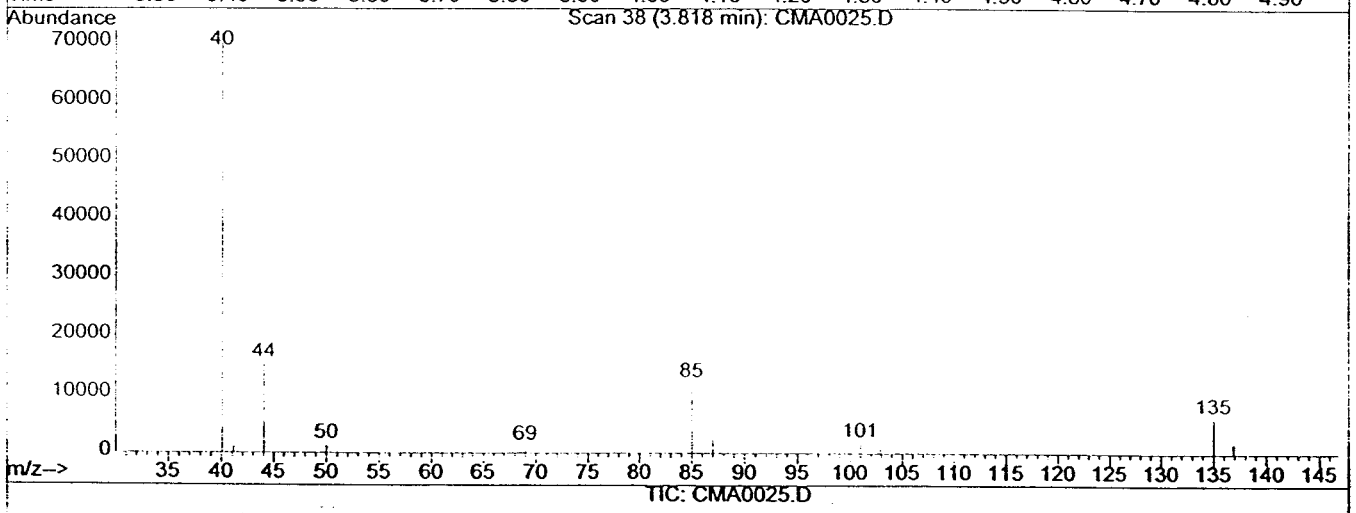
Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Tue Aug 06 09:02:44 2002
Response via : Initial Calibration



Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0025.D Vial: 4
Acq On : 5 Aug 2002 15:11 Operator: BDH
Sample : 25ng/1uL/5ppb INITIAL CALIB. Inst : MARILYN
Misc : Pi/Pf=1 MA135ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 6 8:41 2002 Quant Results File: temp.re

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Tue Aug 06 09:02:44 2002
Response via : Multiple Level Calibration





(2) Dichlorodifluoromethane

3.82min 72.09ng

response 118746

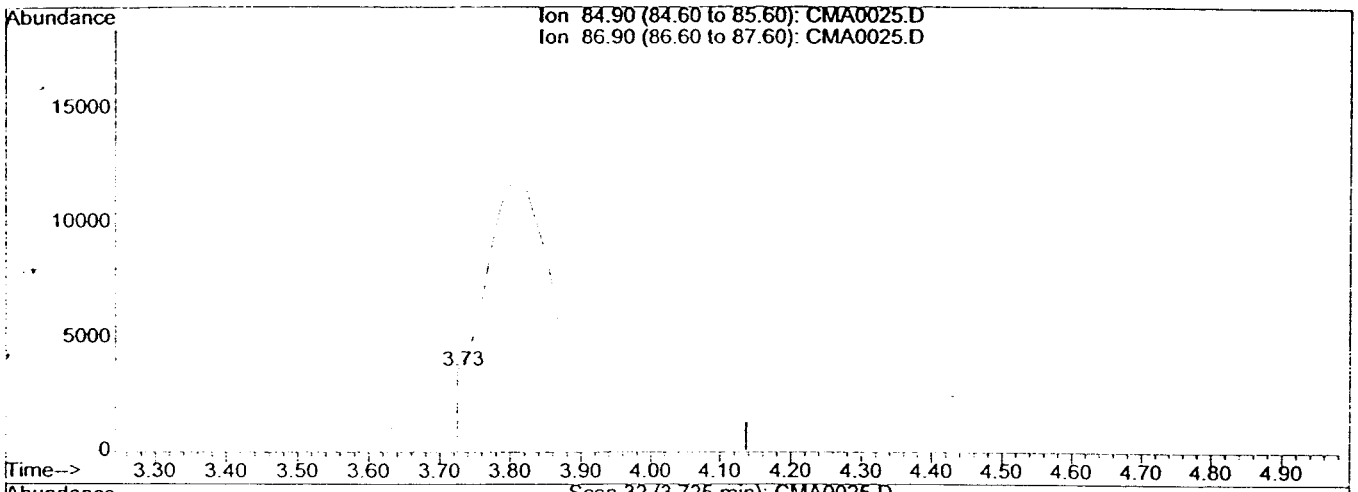
Ion	Exp%	Act%
84.90	100	100
86.90	33.50	29.70
0.00	0.00	0.00
0.00	0.00	0.00

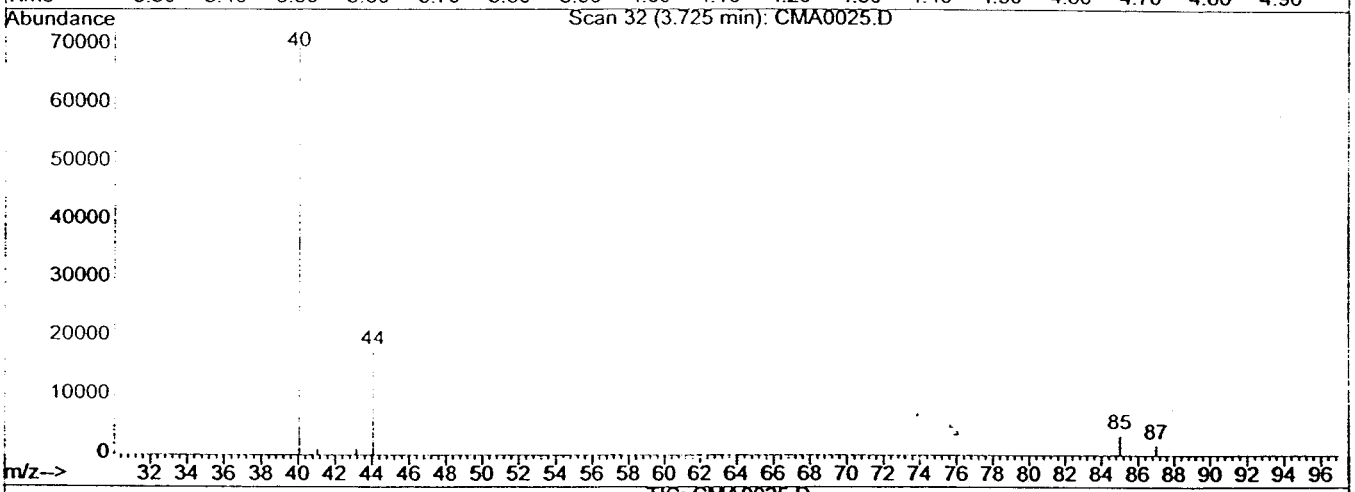
wrong peak

CMA0025.D TO14S.M Tue Aug 06 09:08:16 2002

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0025.D Vial: 4
Acq On : 5 Aug 2002 15:11 Operator: BDH
Sample : 25ng/1uL/5ppb INITIAL CALIB. Inst : MARILYN
Misc : Pi/Pf=1 MA135ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 6 9:08 2002 Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Tue Aug 06 09:02:44 2002
Response via : Multiple Level Calibration





(2) Dichlorodifluoromethane

3.73min 14.27ng m

response 23511

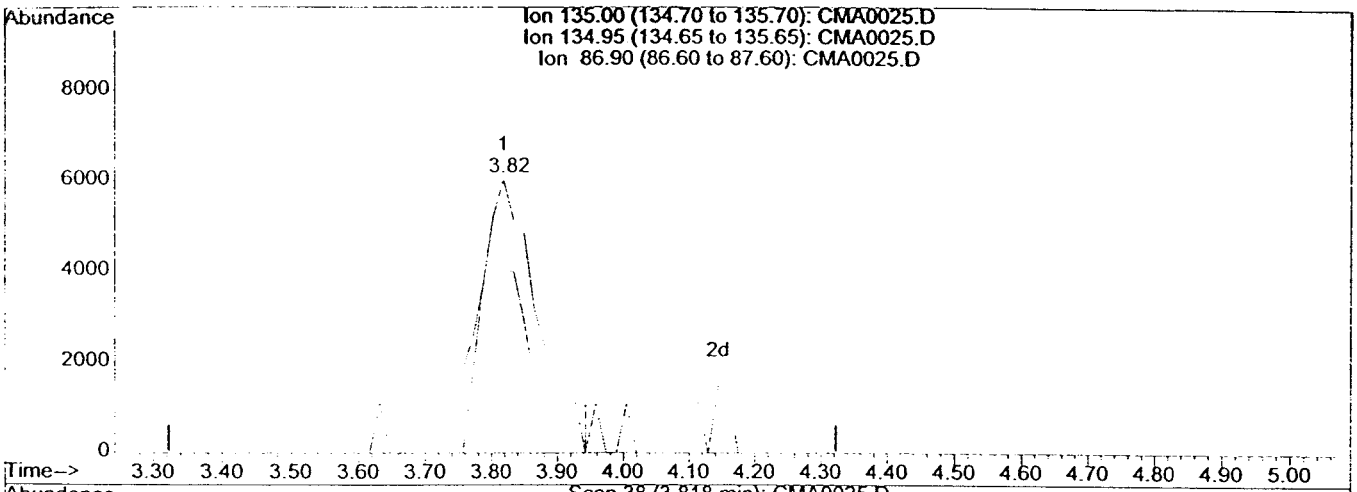
Ion	Exp%	Act%
84.90	100	100
86.90	33.50	149.99#
0.00	0.00	0.00
0.00	0.00	0.00

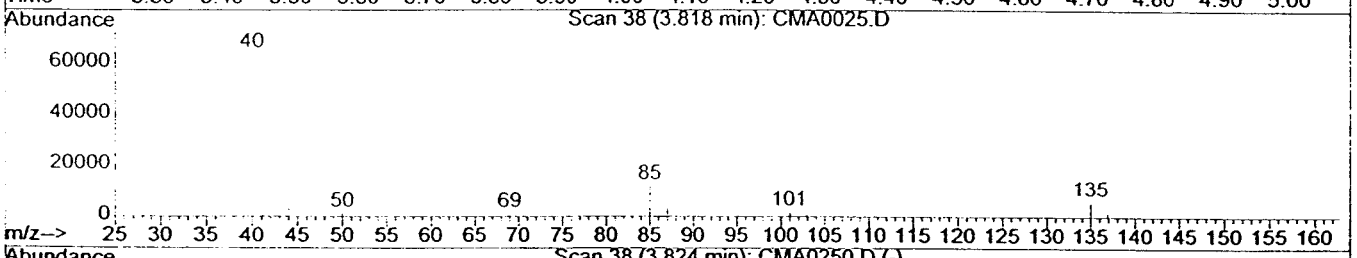
8-6-02

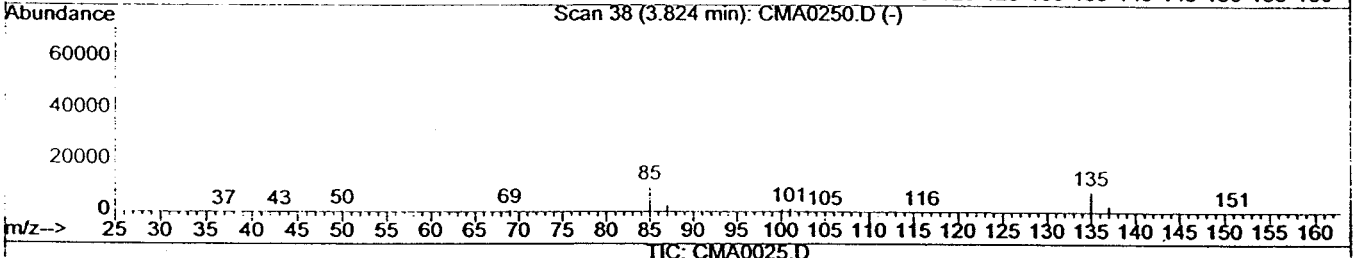
CMA0025.D TO14S.M Tue Aug 06 09:08:26 2002

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0025.D Vial: 4
Acq On : 5 Aug 2002 15:11 Operator: BDH
Sample : 25ng/1uL/5ppb INITIAL CALIB. Inst : MARILYN
Misc : Pi/Pf=1 MA135ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 5 15:43 2002 Quant Results File: temp.re

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Tue Aug 06 08:35:03 2002
Response via : Multiple Level Calibration







TIC: CMA0025.D

(3) Dichlorotetrafluoroethane

3.82min 18.23ng

response 35714

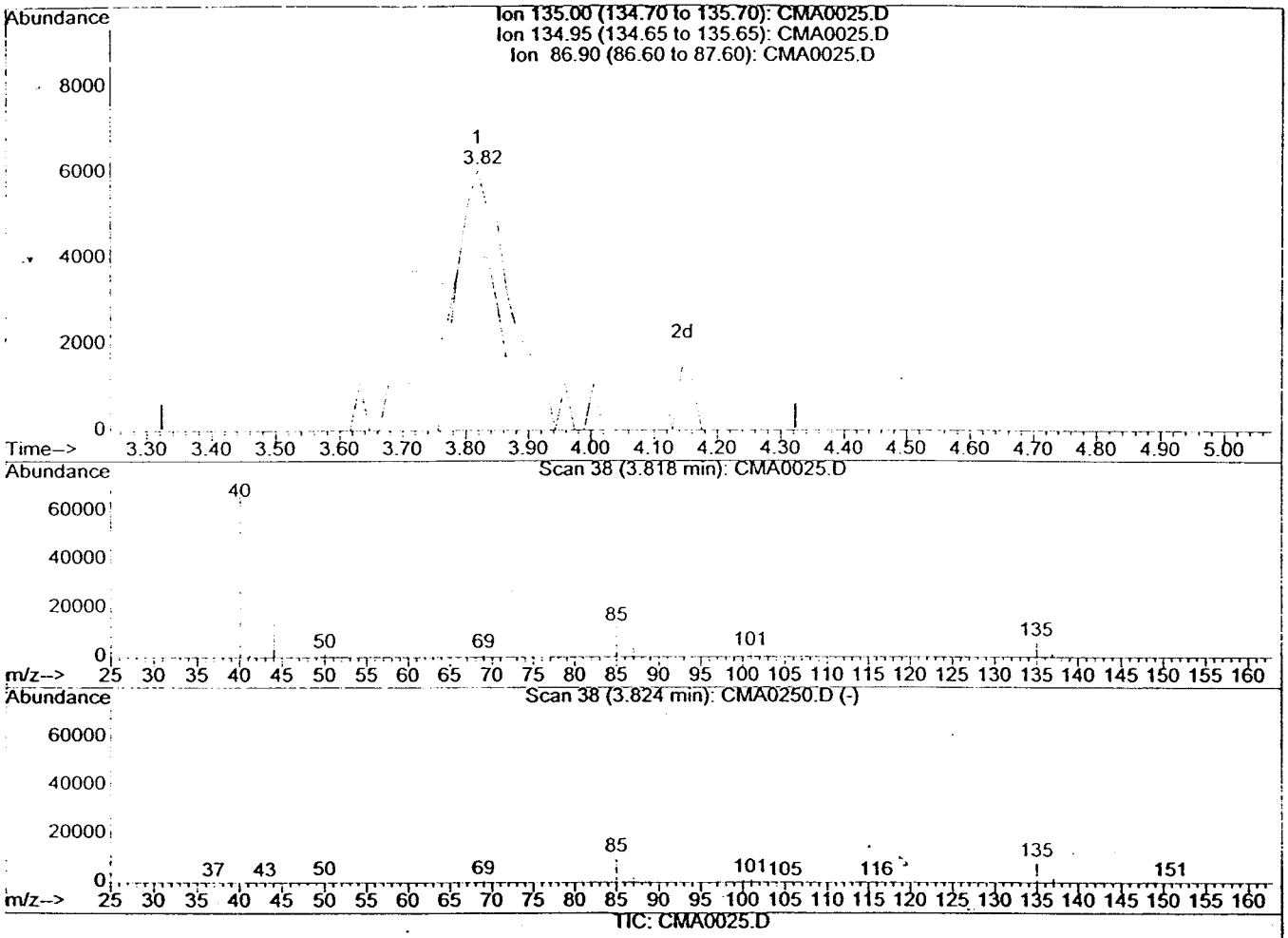
Ion	Exp%	Act%
135.00	100	100
134.95	56.30	100.00#
86.90	32.70	98.74#
0.00	0.00	0.00

Before failing

CMA0025.D TO14S.M Tue Aug 06 08:41:18 2002

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0025.D Vial: 4
Acq On : 5 Aug 2002 15:11 Operator: BDH
Sample : 25ng/1uL/5ppb INITIAL CALIB. Inst : MARILYN
Misc : Pi/Pf=1 MA135ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 6 8:41 2002 Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Tue Aug 06 08:35:03 2002
Response via : Multiple Level Calibration



(3) Dichlorotetrafluoroethane

3.82min 26.75ng m

response 52402

Ion	Exp%	Act%
135.00	100	100
134.95	56.30	68.15#
86.90	32.70	67.30#
0.00	0.00	0.00

ok
BH
8/6/02

CMA0025.D TO14S.M Tue Aug 06 08:41:31 2002

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0025.D Vial: 4
Acq On : 5 Aug 2002 15:11 Operator: BDH
Sample : 25ng/1uL/5ppb INITIAL CALIB. Inst : MARILYN
Misc : Pi/Pf=1 MA135ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 5 15:43 2002 Quant Results File: TO14S.RES

Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Aug 05 15:36:43 2002
Response via : Initial Calibration
DataAcq Meth : TO14S
IS QA File : D:\HPCHEM\1\DATA02\M0805A\CMA0250.D (5 Aug 2002 14:33)

original BDH 8/5/02

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) Bromochloromethane IS#1	11.05	128	525323	250.00 ng	0.00 102.25%
26) 1,4-Difluorobenzene IS#2	12.96	114	2110562	250.00 ng	0.00 98.85%
36) Chlorobenzene-d5 IS#3	20.20	117	1475437	250.00 ng	0.00 101.94%

System Monitoring Compounds

23) 1,2-Dichloroethane d4 SURR	12.17	65	593404	266.18 ng	0.00
Spiked Amount 250.000 Range 61 - 140 Recovery = 106.47%					
32) Toluene-d8 SURR#2	16.47	98	1576268	244.71 ng	0.00
Spiked Amount 250.000 Range 90 - 109 Recovery = 97.88%					
46) 4-Bromofluorobenzene SURR#	23.32	95	1157795	238.66 ng	0.00
Spiked Amount 250.000 Range 87 - 112 Recovery = 95.46%					

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.82	85	118746	72.09 ng		93
3) Dichlorotetrafluoroethane	3.82	135	35714	18.23 ng	#	19
4) Chloromethane	4.13	50	35817	29.31 ng	#	83
5) Vinyl chloride	4.41	62	26503	20.40 ng	#	48
6) Bromomethane	5.12	94	33029	17.91 ng	#	66
7) Chloroethane	5.25	64	12653	13.11 ng	#	61
8) Trichlorofluoromethane	5.70	101	113509	23.16 ng		98
9) 1,1,2-Trichlorotrifluoroet	6.50	151	93981	22.41 ng		83
10) 1,1-Dichloroethene	6.85	96	52328	25.50 ng	#	77
12) Methylene chloride	7.75	49	64415	24.73 ng	#	91
13) Carbon disulfide	7.85	76	143116	25.23 ng		96
14) methyl-Tert-Butyl Ether	8.06	73	95627	23.87 ng	#	88
15) trans-1,2-Dichloroethene	8.34	96	59128	24.62 ng		86
16) n-Hexane	8.46	57	67869	31.05 ng	#	1
17) 1,1-Dichloroethane	9.14	63	90595	23.03 ng	#	97
18) cis-1,2-Dichloroethene	10.37	61	72220	22.95 ng		89
19) Chloroform	10.70	83	107007	22.28 ng		98
20) Isooctane	11.66	57	193210	25.83 ng		81
21) 1,1,1-Trichloroethane	11.53	97	99134	22.43 ng		92
22) Carbon tetrachloride	12.09	117	97294	20.80 ng		96
24) 1,2-Dichloroethane	12.37	62	55135	22.98 ng		96
25) 1,2-Dibromoethane	19.25	107	100996	23.17 ng		100
27) Benzene	12.43	78	134095	24.12 ng		9

(#) = qualifier out of range (m) = manual integration
CMA0025.D TO14S.M Mon Aug 05 15:43:48 2002 Page 2

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0025.D Vial: 4
Acq On : 5 Aug 2002 15:11 Operator: BDH
Sample : 25ng/1uL/5ppb INITIAL CALIB. Inst : MARILYN
Misc : Pi/Pf=1 MA135ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 5 15:43 2002 Quant Results File: TO14S.RES

Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Aug 05 15:36:43 2002
Response via : Initial Calibration
DataAcq Meth : TO14S

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
28)	Trichloroethene	13.75	130	73470	21.80 ng		92
29)	1,2-Dichloropropane	14.14	63	53636	22.52 ng		99
30)	Bromodichloromethane	14.65	83	123603	22.02 ng		100
31)	cis-1,3-Dichloropropene	15.87	75	83746	22.67 ng		99
33)	Toluene	16.66	92	82066	21.08 ng	#	98
34)	trans-1,3-Dichloropropene	17.01	75	70070	22.50 ng		96
35)	1,1,2-Trichloroethane	17.42	97	57189	23.12 ng		96
37)	Tetrachloroethene	18.26	164	67210	21.15 ng		91
38)	Dibromochloromethane	18.74	127	95791	23.49 ng	#	93
39)	Chlorobenzene	20.29	112	107446	20.49 ng		97
40)	Ethylbenzene	20.40	106	41895	20.30 ng		99
41)	m,p-Xylene	20.60	106	101034	37.73 ng		100
42)	o-Xylene	21.72	106	46397	17.94 ng		95
43)	Styrene	21.80	104	77440	17.52 ng		96
44)	Bromoform	22.74	173	106247	23.74 ng		98
45)	1,1,2,2-Tetrachloroethane	23.07	83	96850	26.91 ng	#	97
47)	1,4-Dichloro-2-butene	22.73	75	20485	26.54 ng	#	86
48)	4-Ethyltoluene	24.00	105	128518	19.73 ng	#	89
49)	1,3,5-Trimethylbenzene	24.13	105	85179	16.44 ng	#	82
50)	2-Chlorotoluene	24.22	91	126306	19.26 ng		97
51)	1,2,4-Trimethylbenzene	25.09	105	90654	17.12 ng		98
52)	1,3-Dichlorobenzene	26.04	146	77461	17.12 ng	#	92
53)	1,4-Dichlorobenzene	26.24	146	78283	16.58 ng	#	90
54)	1,2-Dichlorobenzene	27.01	146	71720	16.98 ng	#	91
55)	1,2,4-Trichlorobenzene	30.15	180	46712	Below Cal		95
56)	Napthalene	30.68	128	72114	Below Cal	#	85
57)	Hexachlorobutadiene	30.38	225	36641	Below Cal		96

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0100.D Vial: 5
Acq On : 5 Aug 2002 15:48 Operator: BDH
Sample : 100ng/4uL/20ppb INITIAL CALIB. Inst : MARILYN
Misc : Pi/Pf=1-MA135ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 6 9:10 2002 Quant Results File: TO14S.RES

Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Aug 05 15:54:06 2002
Response via : Initial Calibration
DataAcq Meth : TO14S
IS QA File : D:\HPCHEM\1\DATA02\M0805A\CMA0250.D (5 Aug 2002 14:33)

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) Bromochloromethane IS#1	11.06	128	529243	250.00	ng	0.0 103.01%
26) 1,4-Difluorobenzene IS#2	12.98	114	2105626	250.00	ng	0.0 98.62%
36) Chlorobenzene-d5 IS#3	20.20	117	1479350	250.00	ng	0.0 102.21%

System Monitoring Compounds

23) 1,2-Dichloroethane d4 SURR	12.17	65	568813	250.32	ng	0.0
Spiked Amount 250.000 Range 61 - 140 Recovery = 100.13%						
32) Toluene-d8 SURR#2	16.47	98	1567801	245.41	ng	0.0
Spiked Amount 250.000 Range 90 - 109 Recovery = 98.16%						
46) 4-Bromofluorobenzene SURR#	23.32	95	1161988	241.94	ng	0.0
Spiked Amount 250.000 Range 87 - 112 Recovery = 96.78%						

Target Compounds

							Qvalue
2) Dichlorodifluoromethane	3.65	85	183459m	84.55	ng		98
3) Dichlorotetrafluoroethane	3.84	135	242049	130.39	ng	#	60
4) Chloromethane	4.10	50	133967	104.44	ng	#	94
5) Vinyl chloride	4.30	62	130384	101.73	ng	#	88
6) Bromomethane	5.12	94	112078	64.71	ng	#	9
7) Chloroethane	5.25	64	86085	94.57	ng	#	9
8) Trichlorofluoromethane	5.73	101	476470	95.28	ng		9
9) 1,1,2-Trichlorotrifluoroet	6.52	151	389880	91.67	ng		8
10) 1,1-Dichloroethene	6.86	96	198845	93.76	ng		88
12) Methylene chloride	7.76	49	252199	93.87	ng		9
13) Carbon disulfide	7.87	76	564526	96.49	ng		10
14) methyl-Tert-Butyl Ether	8.06	73	392103	96.05	ng		98
15) trans-1,2-Dichloroethene	8.35	96	229351	92.45	ng		9
16) n-Hexane	8.46	57	228658	96.98	ng	#	
17) 1,1-Dichloroethane	9.16	63	376411	94.02	ng		98
18) cis-1,2-Dichloroethene	10.37	61	298397	92.94	ng		9
19) Chloroform	10.70	83	453201	93.20	ng		98
20) Isooctane	11.65	57	720395	90.91	ng		9
21) 1,1,1-Trichloroethane	11.54	97	399989	89.55	ng		9
22) Carbon tetrachloride	12.11	117	405666	86.49	ng		98
24) 1,2-Dichloroethane	12.38	62	223751	91.42	ng	#	98
25) 1,2-Dibromoethane	19.25	107	390520	87.70	ng		9
27) Benzene	12.45	78	542374	96.50	ng		9

(#) = qualifier out of range (m) = manual integration
CMA0100.D TO14S.M Tue Aug 06 09:10:54 2002 Page 1

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0100.D Vial: 5
Acq On : 5 Aug 2002 15:48 Operator: BDH
Sample : 100ng/4uL/20ppb INITIAL CALIB. Inst : MARILYN
Misc : Pi/Pf=1 MA135ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 6 9:10 2002 Quant Results File: TO14S.RES

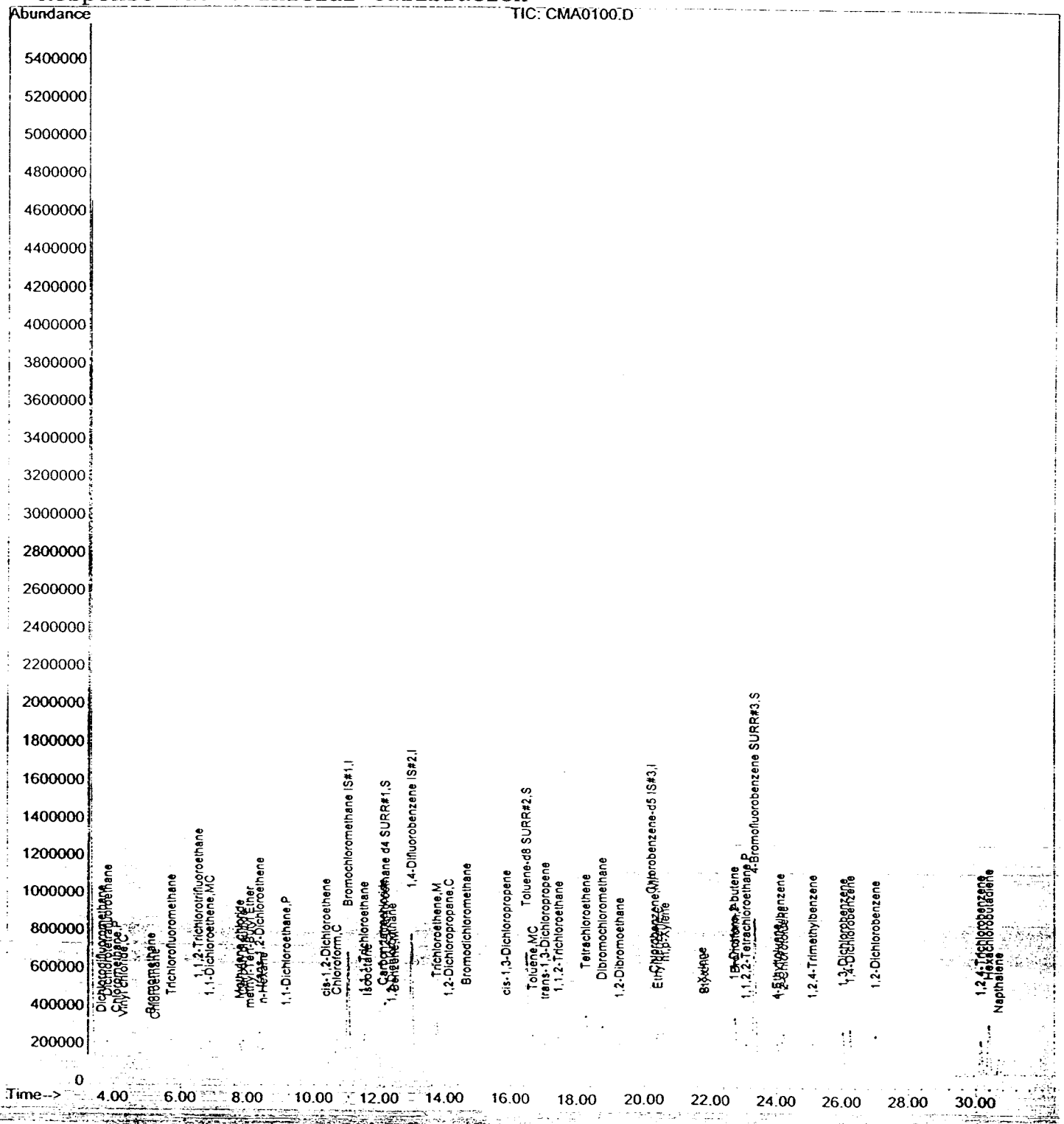
Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Aug 05 15:54:06 2002
Response via : Initial Calibration
DataAcq Meth : TO14S

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
28)	Trichloroethene	13.76	130	302294	90.08 ng		94
29)	1,2-Dichloropropane	14.13	63	229007	95.22 ng		96
30)	Bromodichloromethane	14.66	83	522778	93.36 ng		99
31)	cis-1,3-Dichloropropene	15.87	75	340593	91.88 ng		95
33)	Toluene	16.68	92	336212	87.55 ng	#	97
34)	trans-1,3-Dichloropropene	17.03	75	287004	91.45 ng		99
35)	1,1,2-Trichloroethane	17.44	97	220955	89.14 ng		96
37)	Tetrachloroethene	18.26	164	284540	90.18 ng		92
38)	Dibromochloromethane	18.74	127	384241	93.19 ng		97
39)	Chlorobenzene	20.29	112	466088	89.70 ng		94
40)	Ethylbenzene	20.40	106	180645	88.68 ng		96
41)	m,p-Xylene	20.60	106	439375	167.71 ng		95
42)	o-Xylene	21.74	106	205641	82.16 ng		97
43)	Styrene	21.81	104	348638	81.14 ng		94
44)	Bromoform	22.75	173	404965	89.43 ng		99
45)	1,1,2,2-Tetrachloroethane	23.07	83	354162	95.89 ng		100
47)	1,4-Dichloro-2-butene	22.72	75	80871	99.52 ng		87
48)	4-Ethyltoluene	24.02	105	493499	77.29 ng	#	85
49)	1,3,5-Trimethylbenzene	24.11	105	432997m	88.37 ng	#	61
50)	2-Chlorotoluene	24.22	91	531601	84.01 ng		99
51)	1,2,4-Trimethylbenzene	25.11	105	398786	79.10 ng		99
52)	1,3-Dichlorobenzene	26.04	146	343461m	79.70 ng	#	95
53)	1,4-Dichlorobenzene	26.25	146	361367	80.40 ng	#	93
54)	1,2-Dichlorobenzene	27.02	146	325085	80.55 ng	#	91
55)	1,2,4-Trichlorobenzene	30.15	180	209130	28.49 ng		97
56)	Napthalene	30.68	128	274883	24.93 ng	#	90
57)	Hexachlorobutadiene	30.38	225	172050	47.66 ng		100

(#) = qualifier out of range (m) = manual integration
CMA0100.D TO14S.M Tue Aug 06 09:10:55 2002 Page 2

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0100.D Vial: 5
Acq On : 5 Aug 2002 15:48 Operator: BDH
Sample : 100ng/4uL/20ppb INITIAL CALIB. Inst : MARILYN
Misc : Pi/Pf=1 MA135ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 6 9:10 2002 Quant Results File: TO14S.RES

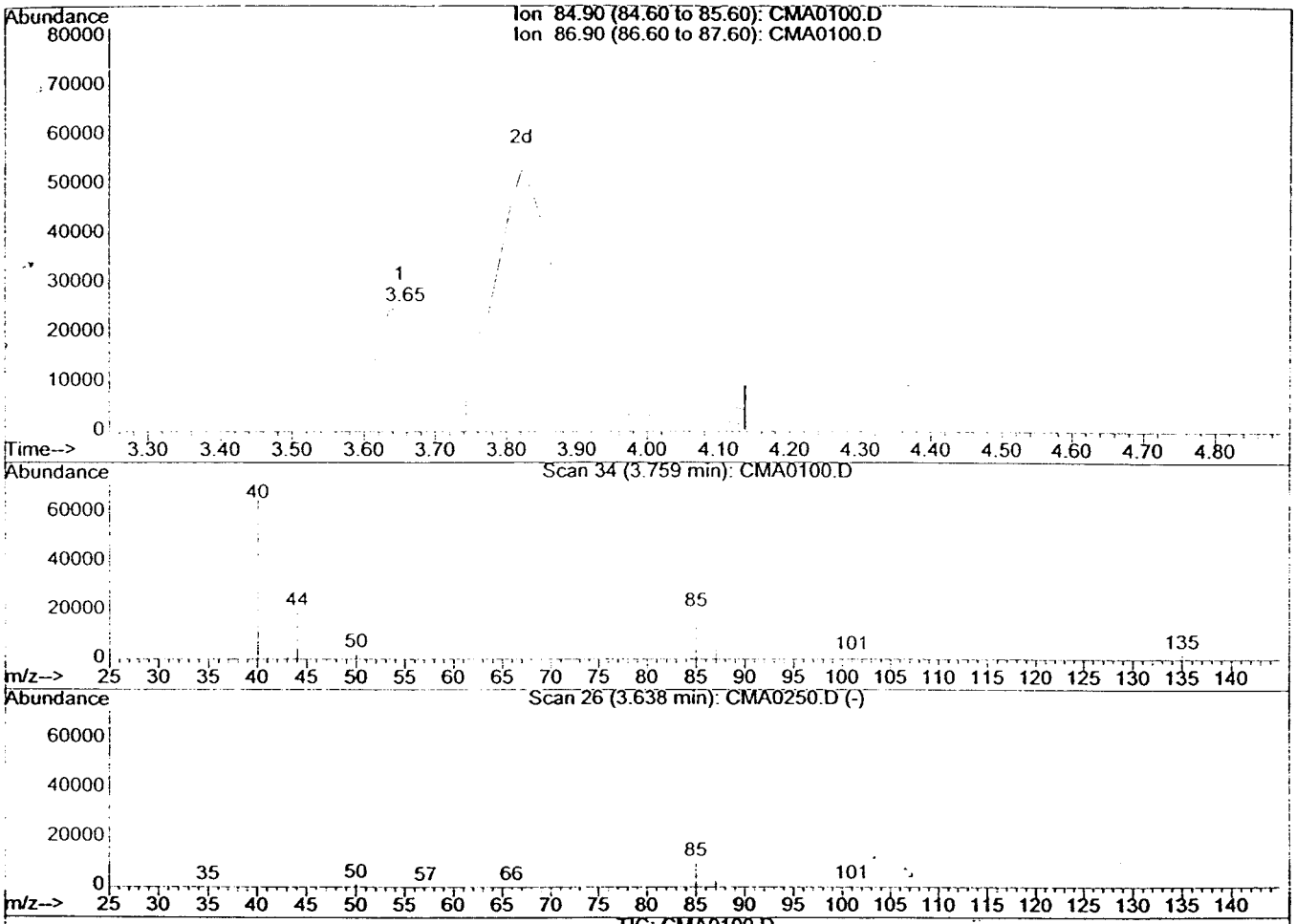
Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Tue Aug 06 09:02:44 2002
Response via : Initial Calibration



CMA0100.D TO14S.M Tue Aug 06 09:10:57 2002 Page

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0100.D Vial: 5
Acq On : 5 Aug 2002 15:48 Operator: BDH
Sample : 100ng/4uL/20ppb INITIAL CALIB. Inst : MARILYN
Misc : Pi/Pf=1 MA135ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 5 16:25 2002 Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Tue Aug 06 08:35:03 2002
Response via : Multiple Level Calibration



(2) Dichlorodifluoromethane

3.65min 84.55ng

response 183459

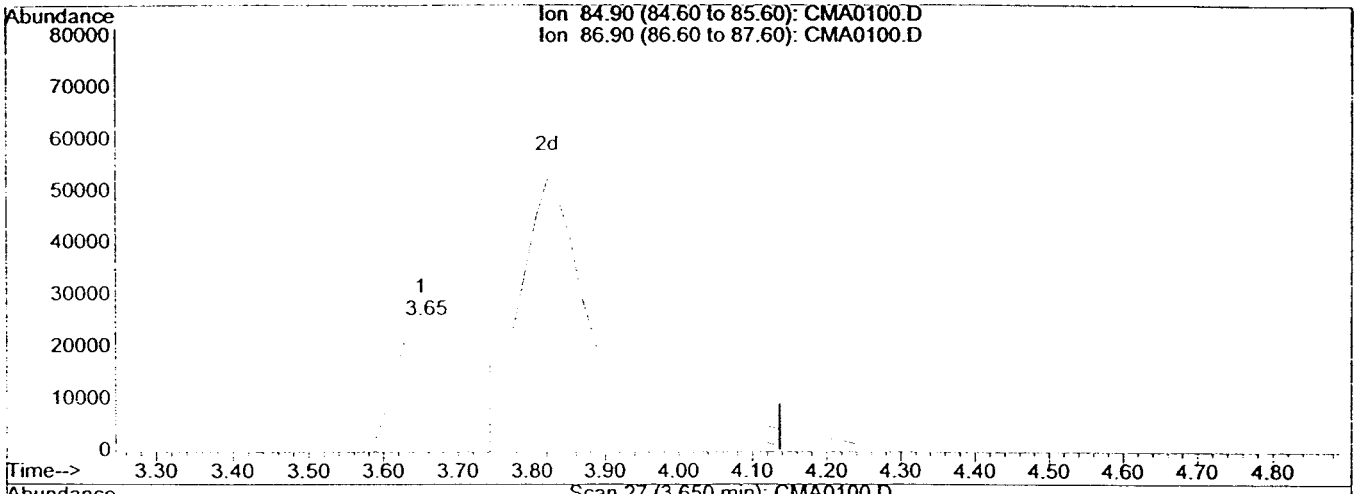
Ion	Exp%	Act%
84.90	100	100
86.90	33.50	32.15
0.00	0.00	0.00
0.00	0.00	0.00

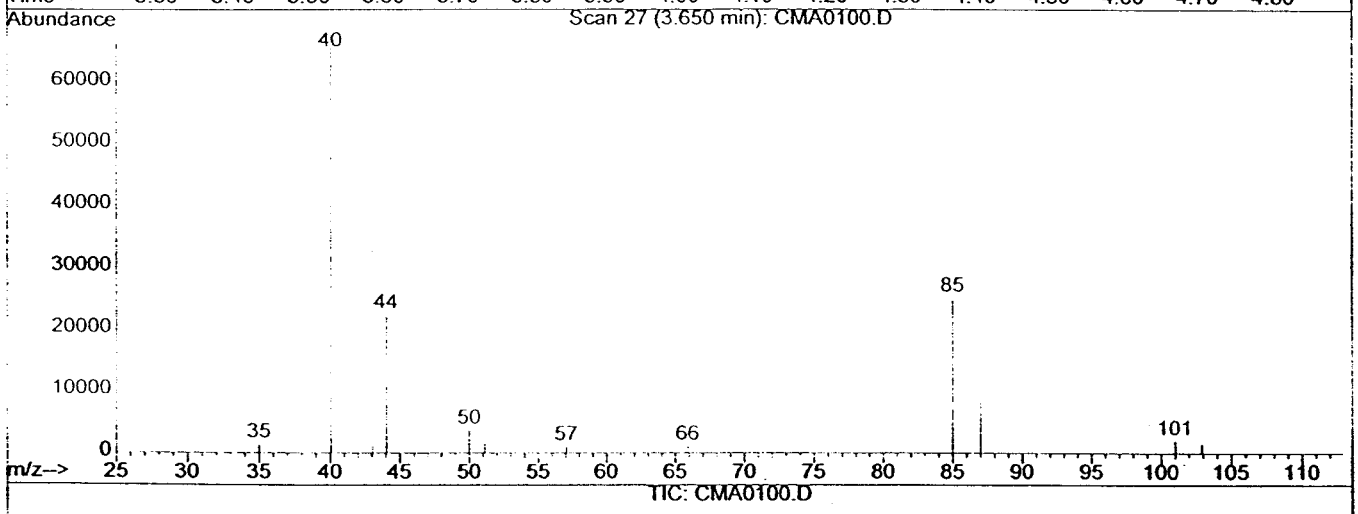
before (tailing)

CMA0100.D TO14S.M Tue Aug 06 08:45:20 2002

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0100.D Vial: 5
Acq On : 5 Aug 2002 15:48 Operator: BDH
Sample : 100ng/4uL/20ppb INITIAL CALIB. Inst : MARILYN
Misc : Pi/Pf=1 MA135ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 6 9:10 2002 Quant Results File: temp.re

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Tue Aug 06 09:02:44 2002
Response via : Multiple Level Calibration





(2) Dichlorodifluoromethane

3.65min 84.55ng m

response 183459

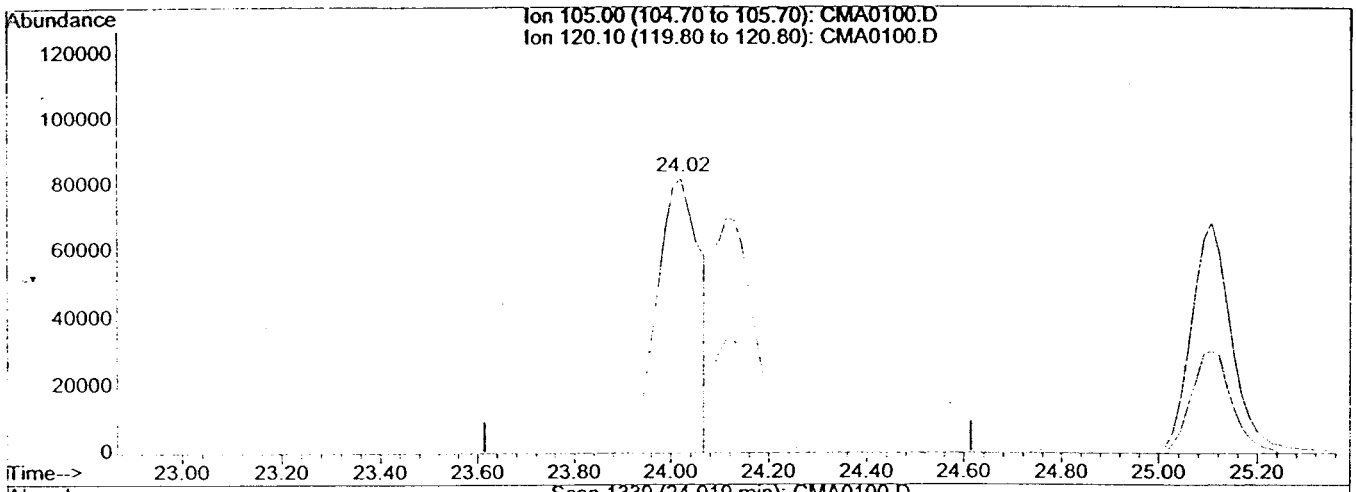
Ion	Exp%	Act%
84.90	100	100
86.90	33.50	32.15
0.00	0.00	0.00
0.00	0.00	0.00

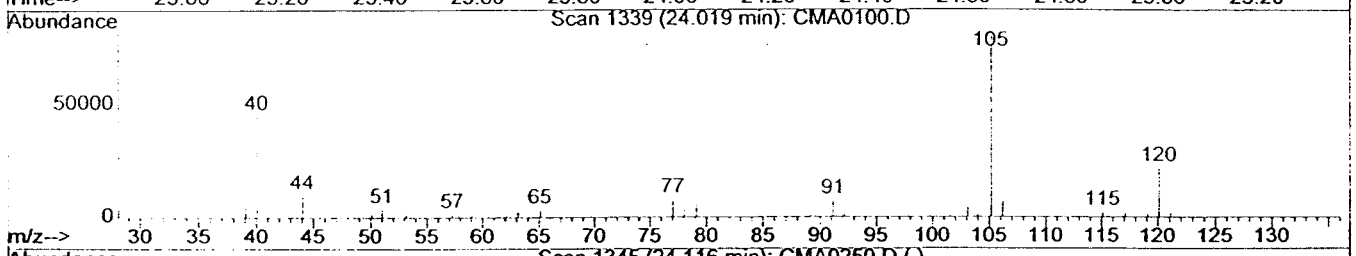
Kept
TM 8-6-02

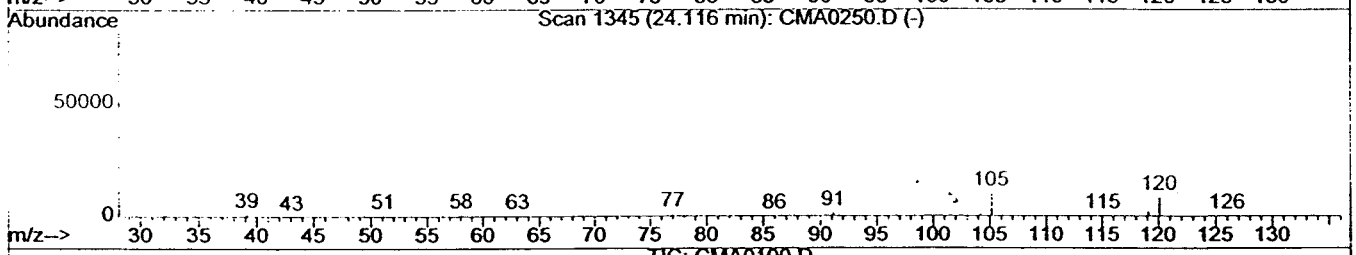
CMA0100.D TO14S.M Tue Aug 06 09:10:41 2002

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0100.D Vial: 5
Acq On : 5 Aug 2002 15:48 Operator: BDH
Sample : 100ng/4uL/20ppb INITIAL CALIB. Inst : MARILYN
Misc : Pi/Pf=1 MA135ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 5 16:21 2002 Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Aug 05 15:54:06 2002
Response via : Multiple Level Calibration







TIC: CMA0100.D

(49) 1,3,5-Trimethylbenzene

24.02min 100.71ng

response 493499

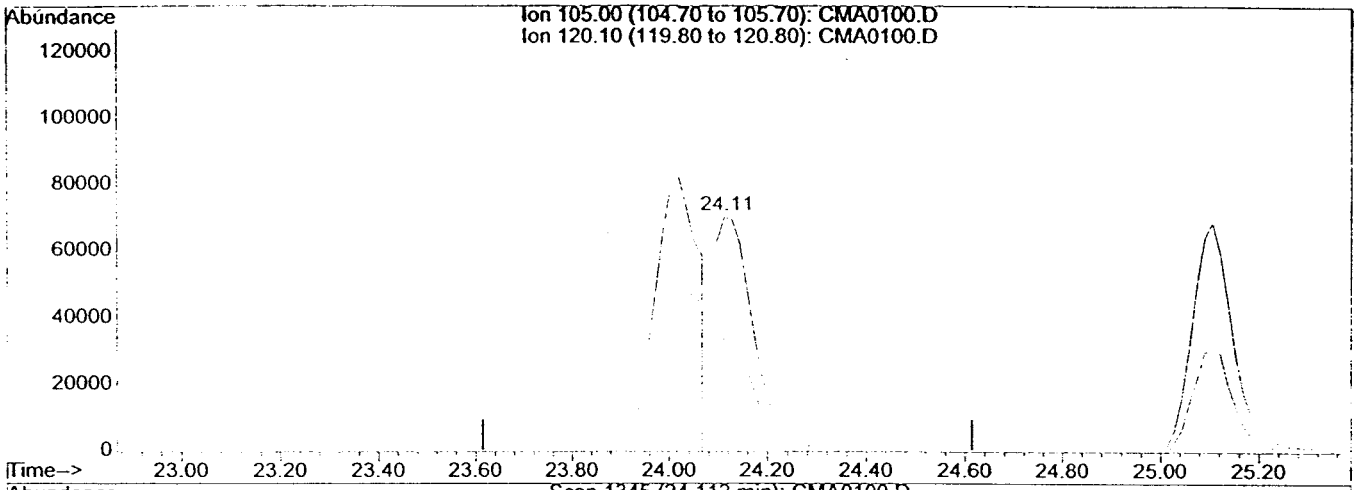
Ion	Exp%	Act%
105.00	100	100
120.10	46.70	20.79#
0.00	0.00	0.00
0.00	0.00	0.00

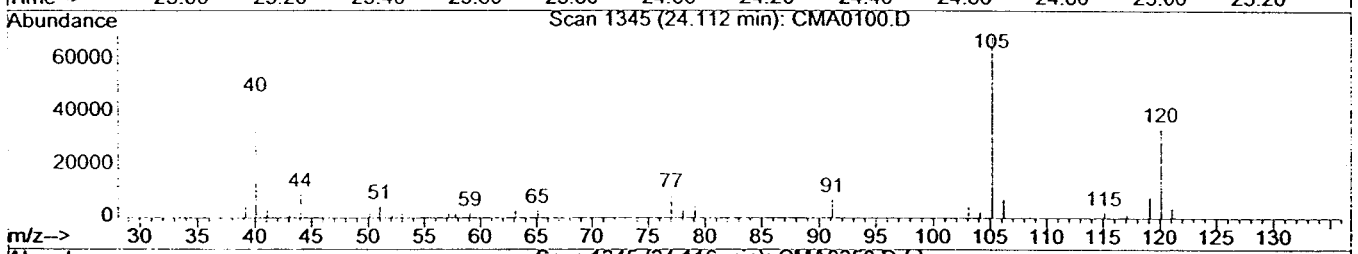
before (mis-integrated).

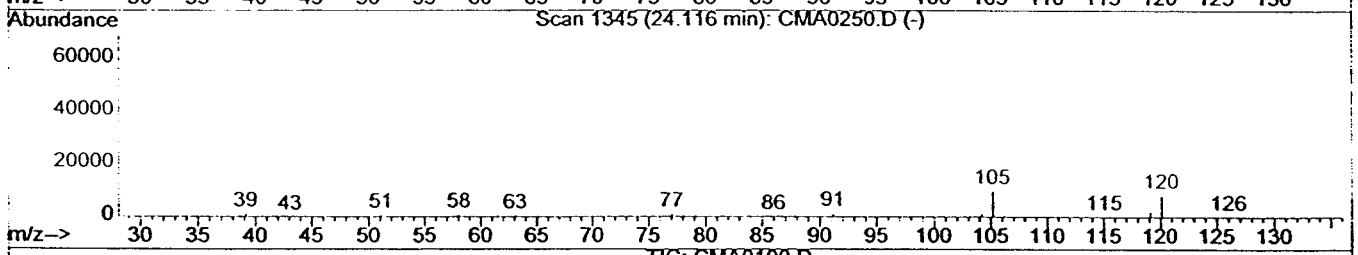
CMA0100.D TO14S.M Mon Aug 05 16:25:34 2002

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0100.D Vial: 5
Acq On : 5 Aug 2002 15:48 Operator: BDH
Sample : 100ng/4uL/20ppb INITIAL CALIB. Inst : MARILYN
Misc : Pi/Pf=1 MA135ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 5 16:25 2002 Quant Results File: temp.re

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Aug 05 15:54:06 2002
Response via : Multiple Level Calibration







TIC: CMA0100.D

(49) 1,3,5-Trimethylbenzene

24.11min 88.37ng m

response 432997

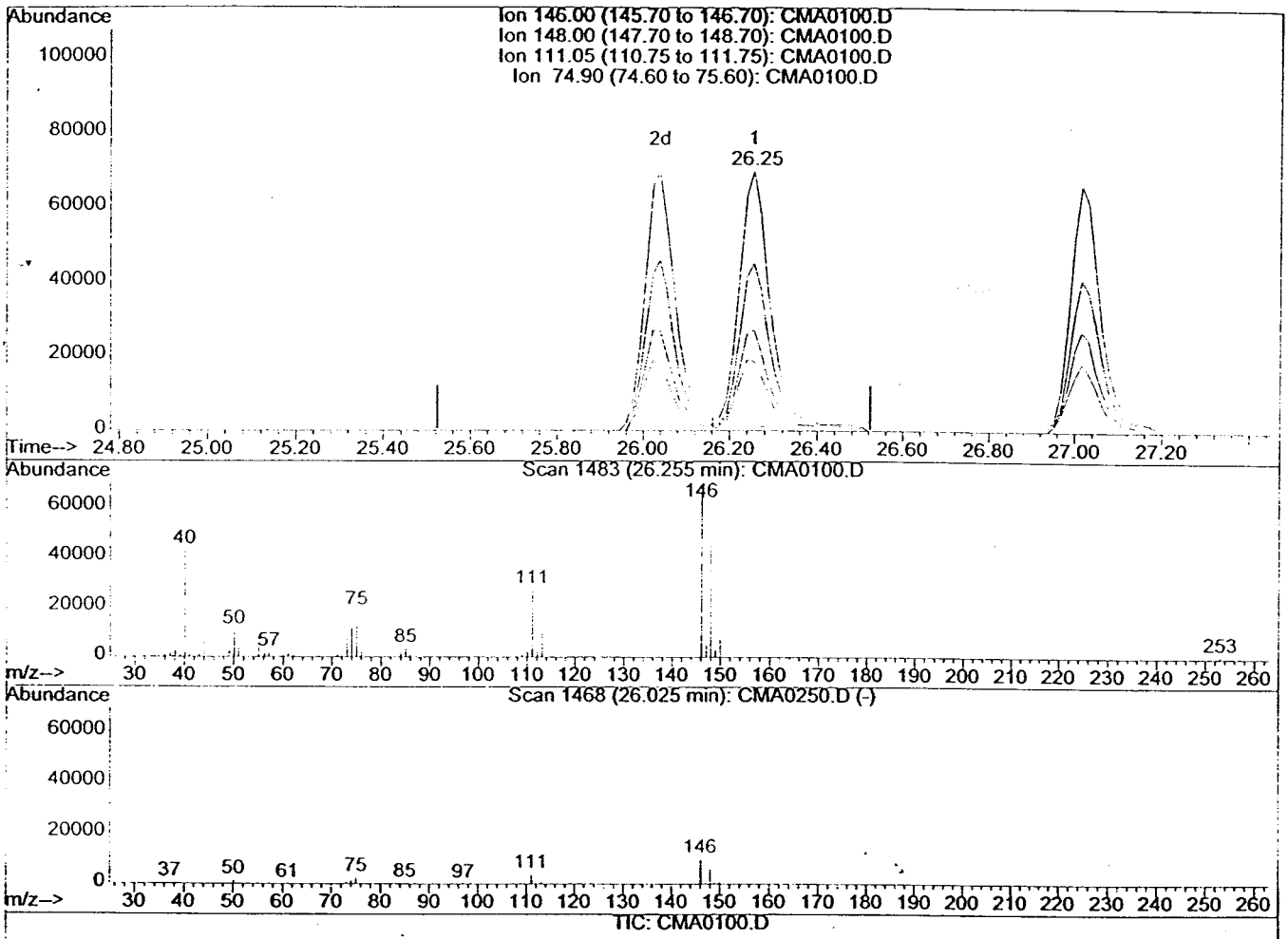
Ion	Exp%	Act%
105.00	100	100
120.10	46.70	23.69#
0.00	0.00	0.00
0.00	0.00	0.00

BDH
8/5/02

CMA0100.D TO14S.M Mon Aug 05 16:25:43 2002

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0100.D Vial: 5
Acq On : 5 Aug 2002 15:48 Operator: BDH
Sample : 100ng/4uL/20ppb INITIAL CALIB. Inst : MARILYN
Misc : Pi/Pf=1 MA135ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 5 16:25 2002 Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Aug 05 15:54:06 2002
Response via : Multiple Level Calibration



(52) 1,3-Dichlorobenzene

26.25min 77.44ng

response 333736

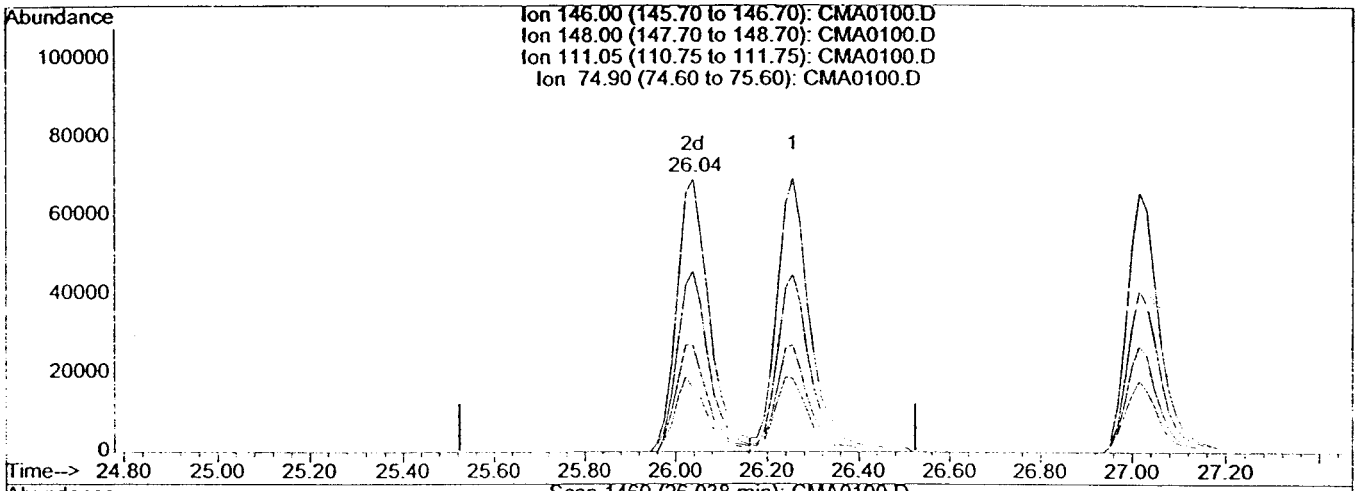
Ion	Exp%	Act%
146.00	100	100
148.00	66.40	65.74
111.05	44.40	40.91
74.90	35.60	29.02

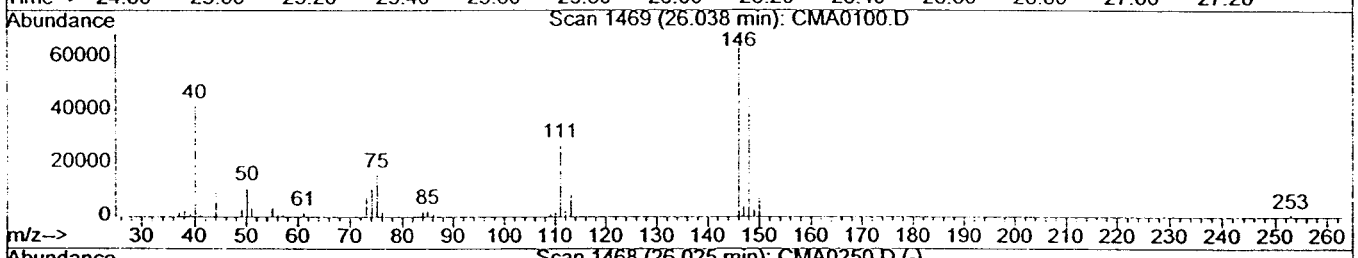
Before (wrong peak)

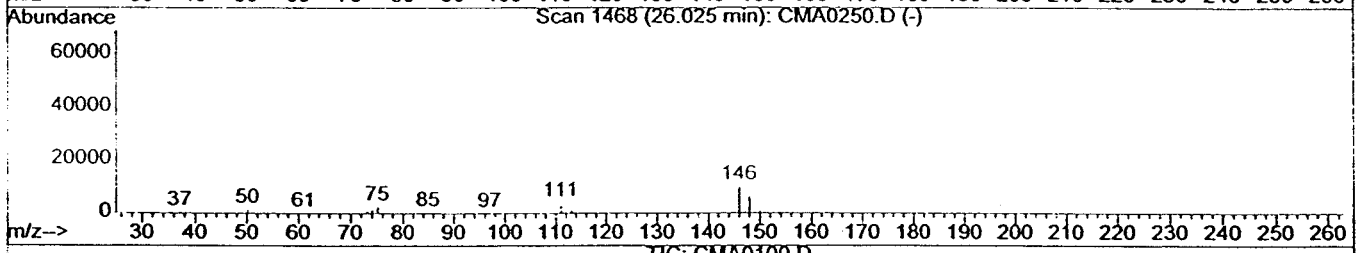
CMA0100.D TO14S.M Mon Aug 05 16:25:52 2002

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0100.D Vial: 5
Acq On : 5 Aug 2002 15:48 Operator: BDH
Sample : 100ng/4uL/20ppb INITIAL CALIB. Inst : MARILYN
Misc : Pi/Pf=1 MA135ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 5 16:25 2002 Quant Results File: temp.re

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Aug 05 15:54:06 2002
Response via : Multiple Level Calibration







TIC: CMA0100.D

(52) 1,3-Dichlorobenzene

26.04min 79.70ng m

response 343461

Ion	Exp%	Act%
146.00	100	100
148.00	66.40	63.88
111.05	44.40	39.75
74.90	35.60	28.20#

after
BH
8/5/02

CMA0100.D TO14S.M Mon Aug 05 16:25:58 2002

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0100.D Vial: 5
Acq On : 5 Aug 2002 15:48 Operator: BDH
Sample : 100ng/4uL/20ppb INITIAL CALIB. Inst : MARILYN
Misc : Pi/Pf=1 MA135ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 5 16:21 2002 Quant Results File: TO14S.RES

Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Aug 05 15:54:06 2002
Response via : Initial Calibration
DataAcq Meth : TO14S
IS QA File : D:\HPCHEM\1\DATA02\M0805A\CMA0250.D (5 Aug 2002 14:33)

original

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) Bromochloromethane IS#1	11.06	128	529243	250.00 ng	0.01 103.01%
26) 1,4-Difluorobenzene IS#2	12.98	114	2105626	250.00 ng	0.01 98.62%
36) Chlorobenzene-d5 IS#3	20.20	117	1479350	250.00 ng	0.00 102.21%

System Monitoring Compounds					
23) 1,2-Dichloroethane d4 SURR	12.17	65	568813	250.32 ng	0.00
Spiked Amount 250.000 Range 61 - 140 Recovery = 100.13%					
32) Toluene-d8 SURR#2	16.47	98	1567801	245.41 ng	0.00
Spiked Amount 250.000 Range 90 - 109 Recovery = 98.16%					
46) 4-Bromofluorobenzene SURR#	23.32	95	1161988	241.94 ng	0.00
Spiked Amount 250.000 Range 87 - 112 Recovery = 96.78%					

Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.65	85	183459	84.55 ng		98
3) Dichlorotetrafluoroethane	3.84	135	242049	130.39 ng	#	60
4) Chloromethane	4.10	50	133967	104.44 ng	#	94
5) Vinyl chloride	4.30	62	130384	101.73 ng	#	88
6) Bromomethane	5.12	94	112078	64.71 ng	#	91
7) Chloroethane	5.25	64	86085	94.57 ng	#	92
8) Trichlorofluoromethane	5.73	101	476470	95.28 ng		99
9) 1,1,2-Trichlorotrifluoroet	6.52	151	389880	91.67 ng		81
10) 1,1-Dichloroethene	6.86	96	198845	93.76 ng		88
12) Methylene chloride	7.76	49	252199	93.87 ng		95
13) Carbon disulfide	7.87	76	564526	96.49 ng		100
14) methyl-Tert-Butyl Ether	8.06	73	392103	96.05 ng		98
15) trans-1,2-Dichloroethene	8.35	96	229351	92.45 ng		93
16) n-Hexane	8.46	57	228658	96.98 ng	#	1
17) 1,1-Dichloroethane	9.16	63	376411	94.02 ng		98
18) cis-1,2-Dichloroethene	10.37	61	298397	92.94 ng		90
19) Chloroform	10.70	83	453201	93.20 ng		98
20) Isooctane	11.65	57	720395	90.91 ng		95
21) 1,1,1-Trichloroethane	11.54	97	399989	89.55 ng		90
22) Carbon tetrachloride	12.11	117	405666	86.49 ng		98
24) 1,2-Dichloroethane	12.38	62	223751	91.42 ng	#	98
25) 1,2-Dibromoethane	19.25	107	390520	87.70 ng		99
27) Benzene	12.45	78	542374	96.50 ng		96

(#) = qualifier out of range (m) = manual integration
CMA0100.D TO14S.M Mon Aug 05 16:21:12 2002 Page 1

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0100.D Vial: 5
Acq On : 5 Aug 2002 15:48 Operator: BDH
Sample : 100ng/4uL/20ppb INITIAL CALIB. Inst : MARILYN
Misc : Pi/Pf=1 MA135ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 5 16:21 2002 Quant Results File: TO14S.RES

Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Aug 05 15:54:06 2002
Response via : Initial Calibration
DataAcq Meth : TO14S

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
28)	Trichloroethene	13.76	130	302294	90.08 ng		9
29)	1,2-Dichloropropane	14.13	63	229007	95.22 ng		9
30)	Bromodichloromethane	14.66	83	522778	93.36 ng		9
31)	cis-1,3-Dichloropropene	15.87	75	340593	91.88 ng		9
33)	Toluene	16.68	92	336212	87.55 ng	#	9
34)	trans-1,3-Dichloropropene	17.03	75	287004	91.45 ng		9
35)	1,1,2-Trichloroethane	17.44	97	220955	89.14 ng		9
37)	Tetrachloroethene	18.26	164	284540	90.18 ng		9
38)	Dibromochloromethane	18.74	127	384241	93.19 ng		9
39)	Chlorobenzene	20.29	112	466088	89.70 ng		9
40)	Ethylbenzene	20.40	106	180645	88.68 ng		9
41)	m,p-Xylene	20.60	106	439375	167.71 ng		9
42)	o-Xylene	21.74	106	205641	82.16 ng		9
43)	Styrene	21.81	104	348638	81.14 ng		9
44)	Bromoform	22.75	173	404965	89.43 ng		9
45)	1,1,2,2-Tetrachloroethane	23.07	83	354162	95.89 ng		10
47)	1,4-Dichloro-2-butene	22.72	75	80871	99.52 ng		8
48)	4-Ethyltoluene	24.02	105	493499	77.29 ng	#	8
49)	1,3,5-Trimethylbenzene	24.02	105	493499	100.71 ng	#	6
50)	2-Chlorotoluene	24.22	91	531601	84.01 ng		9
51)	1,2,4-Trimethylbenzene	25.11	105	398786	79.10 ng		9
52)	1,3-Dichlorobenzene	26.25	146	333736	77.44 ng		9
53)	1,4-Dichlorobenzene	26.25	146	361367	80.40 ng	#	9
54)	1,2-Dichlorobenzene	27.02	146	325085	80.55 ng	#	9
55)	1,2,4-Trichlorobenzene	30.15	180	209130	28.49 ng		9
56)	Napthalene	30.68	128	274883	24.93 ng	#	9
57)	Hexachlorobutadiene	30.38	225	172050	47.66 ng		10

(#) = qualifier out of range (m) = manual integration
CMA0100.D TO14S.M Mon Aug 05 16:21:12 2002 Page

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0250.D Vial: 3
Acq On : 5 Aug 2002 14:33 Operator: BDH
Sample : 250ng/10uL/50ppb INITIAL CALIB. Inst : MARILYN
Misc : Pi/Pf=1 MA135ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 6 9:13 2002 Quant Results File: TO14S.RES

Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Jul 22 10:42:36 2002
Response via : Initial Calibration
DataAcq Meth : TO14S
IS QA File : D:\HPCHEM\1\DATA02\M0722A\CM0722A.D (22 Jul 2002 9:57)

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) Bromochloromethane IS#1	11.04	128	513758	250.00	ng	-0.12 127.79%
26) 1,4-Difluorobenzene IS#2	12.97	114	2135053	250.00	ng	-0.13 131.07%
36) Chlorobenzene-d5 IS#3	20.20	117	1447407	250.00	ng	-0.18 117.32%

System Monitoring Compounds

23) 1,2-Dichloroethane d4 SURR	12.18	65	554812m	257.22	ng	-0.13
Spiked Amount 250.000 Range 61 - 140 Recovery = 102.89%						
32) Toluene-d8 SURR#2	16.48	98	1555851	236.41	ng	-0.16
Spiked Amount 250.000 Range 90 - 109 Recovery = 94.56%						
46) 4-Bromofluorobenzene SURR#	23.32	95	1122647	233.28	ng	-0.19
Spiked Amount 250.000 Range 87 - 112 Recovery = 93.31%						

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.64	85	434996m	252.74	ng	# 100
3) Dichlorotetrafluoroethane	3.82	135	686897m	345.84	ng	49
4) Chloromethane	4.10	50	382183	333.51	ng	# 95
5) Vinyl chloride	4.31	62	374002	299.64	ng	97
6) Bromomethane	5.13	94	300126	154.51	ng	# 95
7) Chloroethane	5.24	64	250820	265.36	ng	95
8) Trichlorofluoromethane	5.72	101	1407395	300.09	ng	100
9) 1,1,2-Trichlorotrifluoroet	6.51	151	1172168	291.36	ng	81
10) 1,1-Dichloroethene	6.87	96	601591	306.27	ng	87
12) Methylene chloride	7.77	49	708232	280.64	ng	94
13) Carbon disulfide	7.86	76	1631270	299.97	ng	100
14) methyl-Tert-Butyl Ether	8.06	73	1113348	291.52	ng	98
15) trans-1,2-Dichloroethene	8.34	96	688623	300.23	ng	92
16) n-Hexane	8.45	57	641702	312.35	ng	# 1
17) 1,1-Dichloroethane	9.16	63	1109055	294.06	ng	99
18) cis-1,2-Dichloroethene	10.38	61	890816	295.49	ng	91
19) Chloroform	10.70	83	1342692	290.55	ng	98
20) Isooctane	11.65	57	2126597	302.06	ng	94
21) 1,1,1-Trichloroethane	11.54	97	1216948	286.01	ng	89
22) Carbon tetrachloride	12.10	117	1231579	270.23	ng	99
24) 1,2-Dichloroethane	12.38	62	644859	278.04	ng	# 97
25) 1,2-Dibromoethane	19.26	107	1151963	272.93	ng	98
27) Benzene	12.44	78	1576639	283.83	ng	97

(#) = qualifier out of range (m) = manual integration
CMA0250.D TO14S.M Tue Aug 06 09:14:00 2002 Page 1

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0250.D Vial: 3
Acq On : 5 Aug 2002 14:33 Operator: BDH
Sample : 250ng/10uL/50ppb INITIAL CALIB. Inst : MARILYN
Misc : Pi/Pf=1-MA135ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 6 9:13 2002 Quant Results File: TO14S.RES

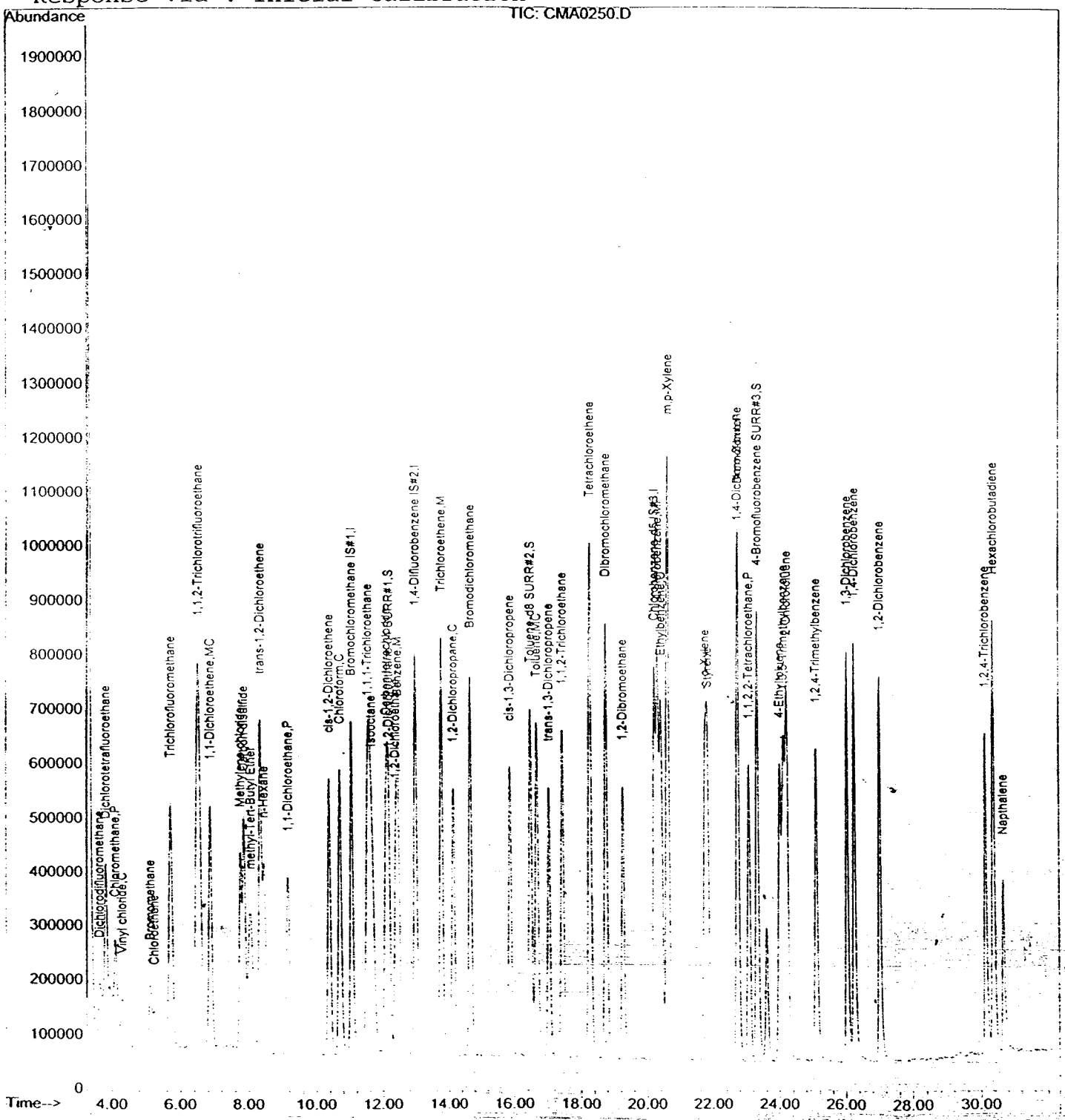
Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Jul 22 10:42:36 2002
Response via : Initial Calibration
DataAcq Meth : TO14S

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
28)	Trichloroethene	13.76	130	902272	264.90 ng		9
29)	1,2-Dichloropropane	14.13	63	668662	279.79 ng		9
30)	Bromodichloromethane	14.66	83	1525599	270.00 ng		9
31)	cis-1,3-Dichloropropene	15.86	75	1010217	271.88 ng		9
33)	Toluene	16.66	92	1002777	252.16 ng	#	9
34)	trans-1,3-Dichloropropene	17.02	75	842619	268.49 ng		9
35)	1,1,2-Trichloroethane	17.42	97	661739	265.55 ng		9
37)	Tetrachloroethene	18.26	164	838662	270.12 ng		9
38)	Dibromochloromethane	18.74	127	1127298	287.32 ng	#	9
39)	Chlorobenzene	20.30	112	1371068	266.17 ng		9
40)	Ethylbenzene	20.41	106	529523	260.44 ng		9
41)	m,p-Xylene	20.61	106	1313633	492.92 ng		9
42)	o-Xylene	21.74	106	623134	242.48 ng		9
43)	Styrene	21.82	104	1051850	237.66 ng		9
44)	Bromoform	22.73	173	1218411	282.41 ng		10
45)	1,1,2,2-Tetrachloroethane	23.08	83	1047650	307.25 ng		9
47)	1,4-Dichloro-2-butene	22.72	75	240027	332.54 ng		9
48)	4-Ethyltoluene	24.01	105	1532808	235.48 ng		9
49)	1,3,5-Trimethylbenzene	24.12	105	1276149	246.62 ng		9
50)	2-Chlorotoluene	24.21	91	1523283	230.94 ng		9
51)	1,2,4-Trimethylbenzene	25.09	105	1193077	222.40 ng		9
52)	1,3-Dichlorobenzene	26.03	146	1016137m	220.92 ng		9
53)	1,4-Dichlorobenzene	26.24	146	1034312	214.89 ng	#	9
54)	1,2-Dichlorobenzene	27.02	146	981458	228.49 ng	#	9
55)	1,2,4-Trichlorobenzene	30.14	180	643383	187.53 ng		9
56)	Napthalene	30.67	128	916400	231.31 ng	#	9
57)	Hexachlorobutadiene	30.37	225	507487	156.15 ng		9

(#) = qualifier out of range (m) = manual integration
CMA0250.D TO14S.M Tue Aug 06 09:14:01 2002 Page

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0250.D Vial: 3
Acq On : 5 Aug 2002 14:33 Operator: BDH
Sample : 250ng/10uL/50ppb INITIAL CALIB. Inst : MARILYN
Misc : Pi/Pf=1 MA135ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 6 9:13 2002 Quant Results File: TO14S.RES

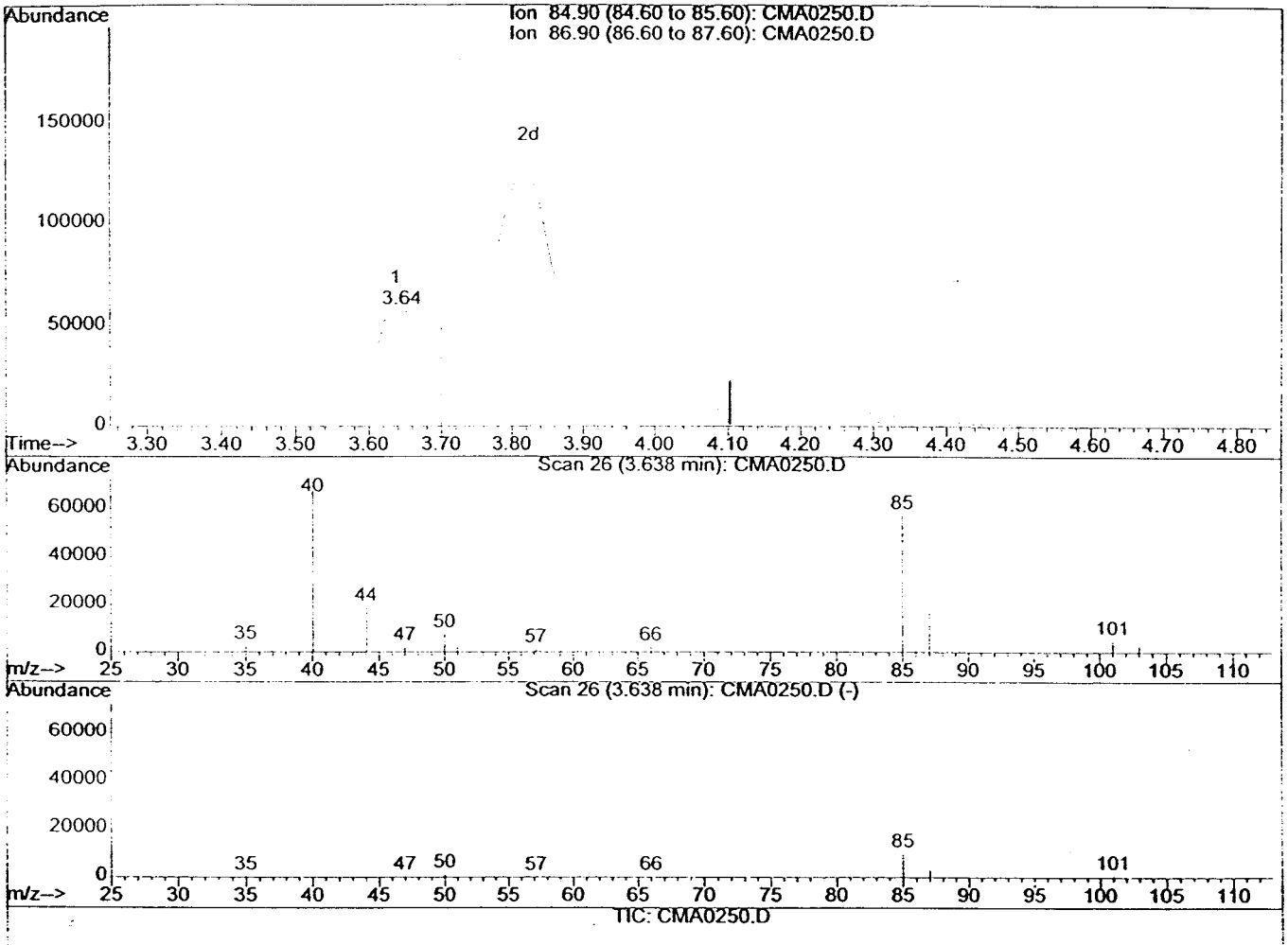
Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Tue Aug 06 09:02:44 2002
Response via : Initial Calibration



CMA0250.D TO14S.M Tue Aug 06 09:14:03 2002 Page 3

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0250.D Vial: 3
Acq On : 5 Aug 2002 14:33 Operator: BDH
Sample : 250ng/10uL/50ppb INITIAL CALIB. Inst : MARILY
Misc : Pi/Pf=1 MA135ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 5 15:33 2002 Quant Results File: temp.r

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Tue Aug 06 08:35:03 2002
Response via : Multiple Level Calibration



(2) Dichlorodifluoromethane

3.64min 198.33ng

response 341345

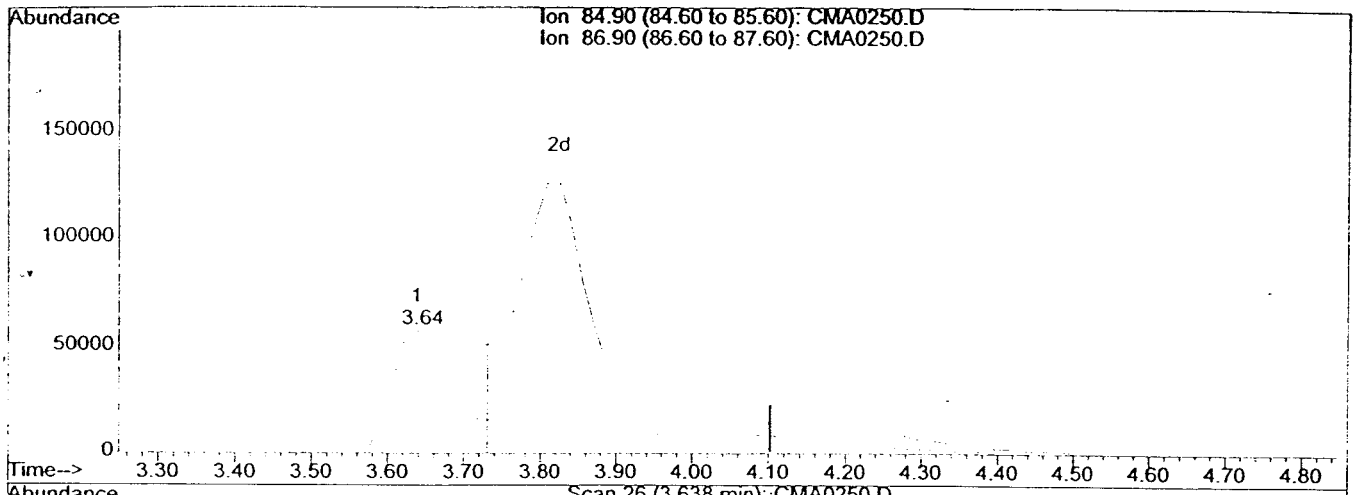
Ion	Exp%	Act%
84.90	100	100
86.90	33.50	33.22
0.00	0.00	0.00
0.00	0.00	0.00

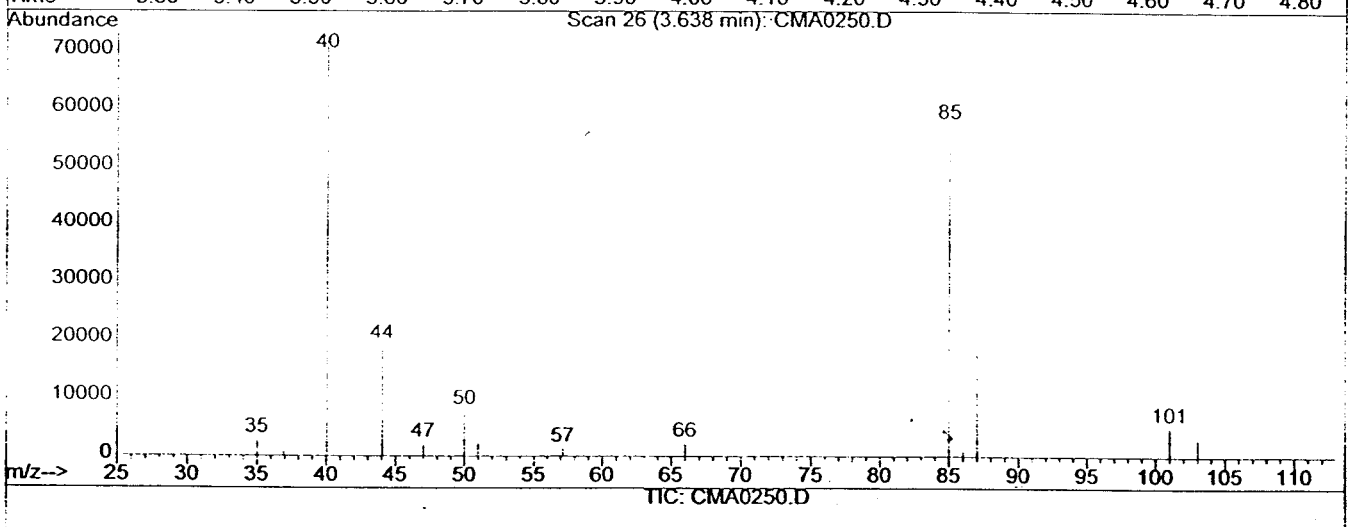
before (tailing)

CMA0250.D TO14S.M Tue Aug 06 08:49:39 2002

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0250.D Vial: 3
Acq On : 5 Aug 2002 14:33 Operator: BDH
Sample : 250ng/10uL/50ppb INITIAL CALIB. Inst : MARILYN
Misc : Pi/Pf=1 MA135ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 6 9:13 2002 Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Tue Aug 06 09:02:44 2002
Response via : Multiple Level Calibration





(2) Dichlorodifluoromethane

3.64min 252.74ng m

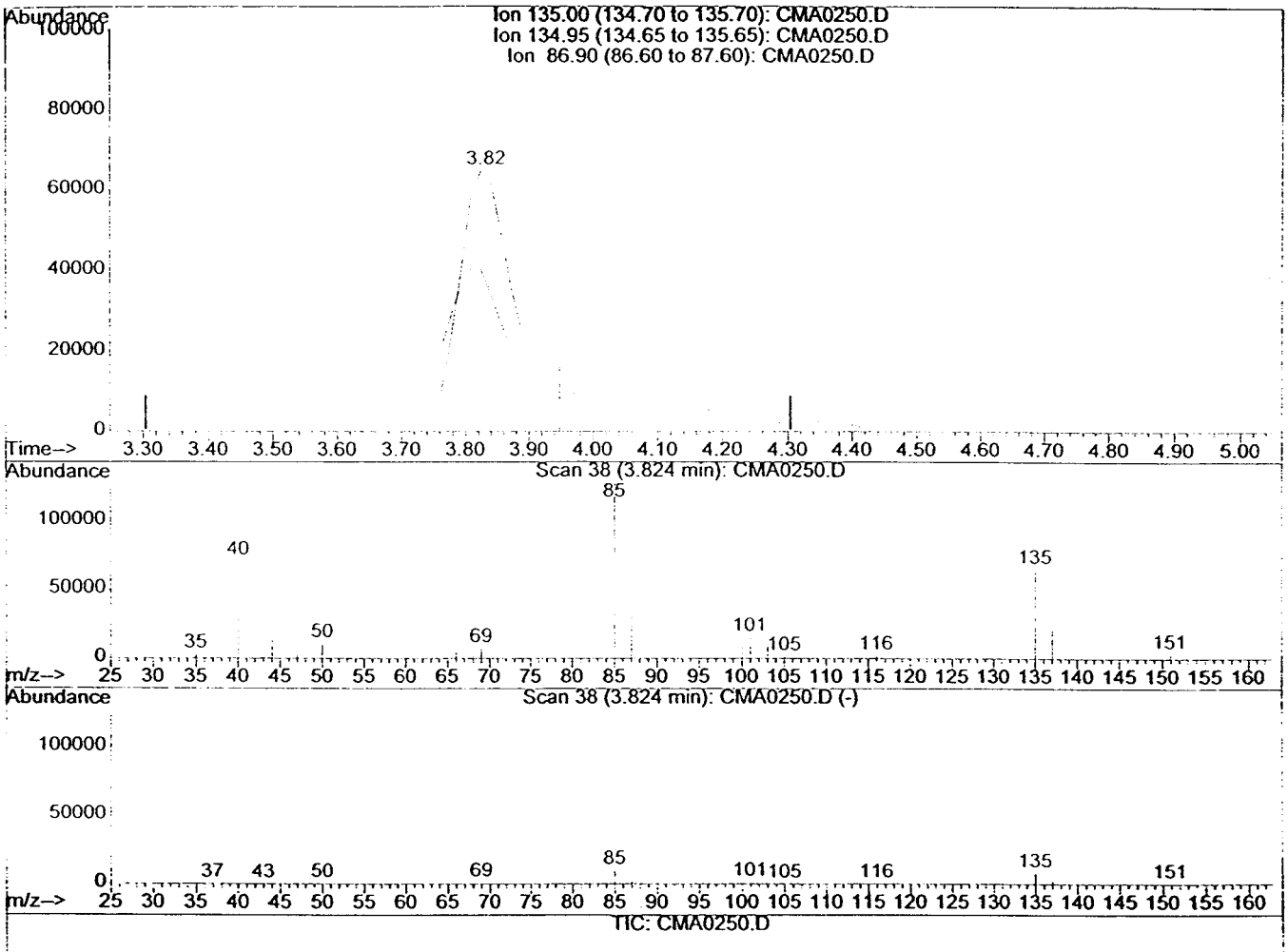
response 434996

Ion	Exp%	Act%
84.90	100	100
86.90	33.50	26.07#
0.00	0.00	0.00
0.00	0.00	0.00

CMA0250.D TO14S.M Tue Aug 06 09:13:33 2002

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0250.D Vial: 3
Acq On : 5 Aug 2002 14:33 Operator: BDH
Sample : 250ng/10uL/50ppb INITIAL CALIB. Inst : MARILYN
Misc : Pi/Pf=1 MA135ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 6 8:49 2002 Quant Results File: temp.re

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Tue Aug 06 08:35:03 2002
Response via : Multiple Level Calibration



(3) Dichlorotetrafluoroethane

3.82min 208.29ng

response 413691

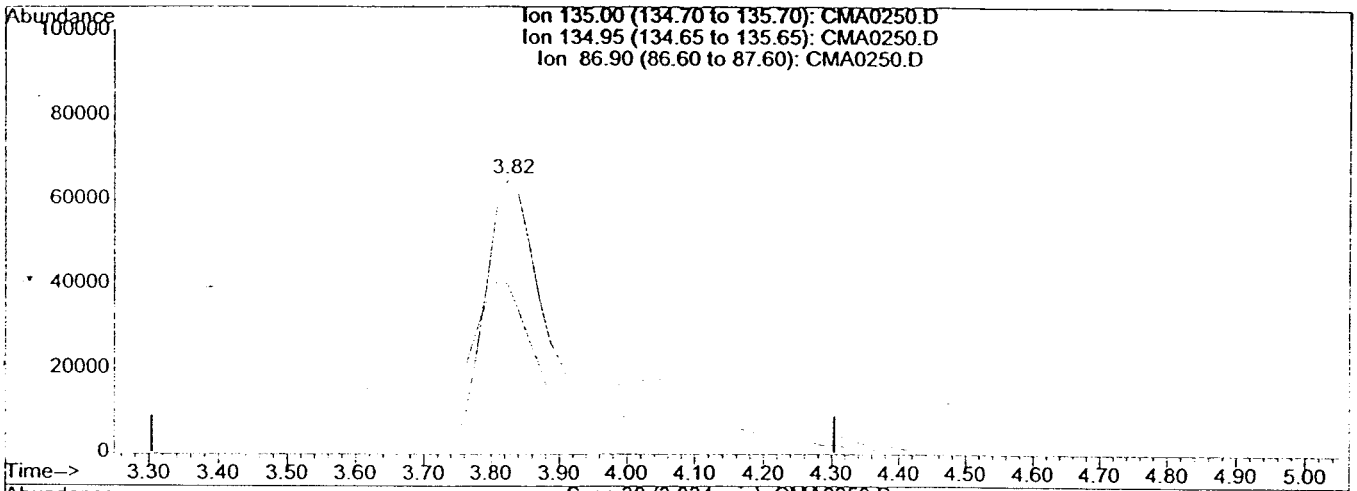
Ion	Exp%	Act%
135.00	100	100
134.95	56.30	100.00#
86.90	32.70	52.61#
0.00	0.00	0.00

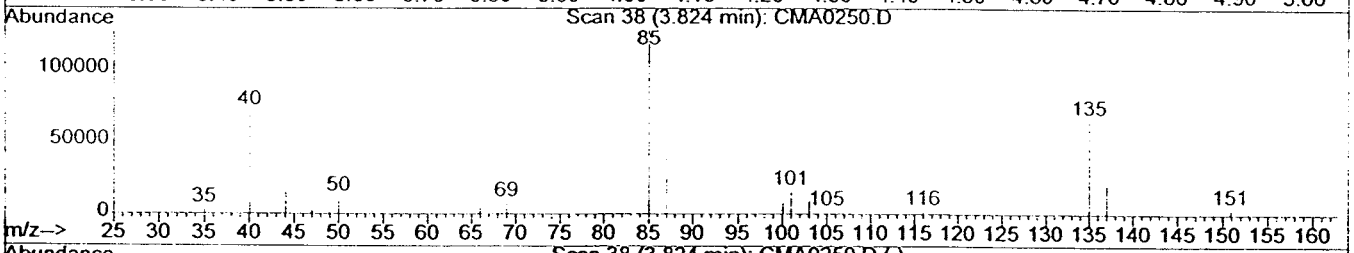
before (tailing)

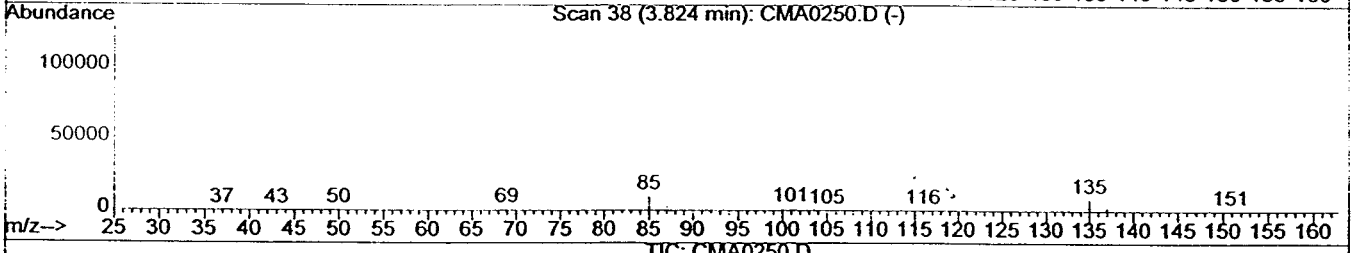
CMA0250.D TO14S.M Tue Aug 06 08:49:57 2002

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0250.D Vial: 3
Acq On : 5 Aug 2002 14:33 Operator: BDH
Sample : 250ng/10uL/50ppb INITIAL CALIB. Inst : MARILYN
Misc : Pi/Pf=1 MA135ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 6 8:50 2002 Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Tue Aug 06 08:35:03 2002
Response via : Multiple Level Calibration







(3) Dichlorotetrafluoroethane

3.82min 345.84ng m

response 686897

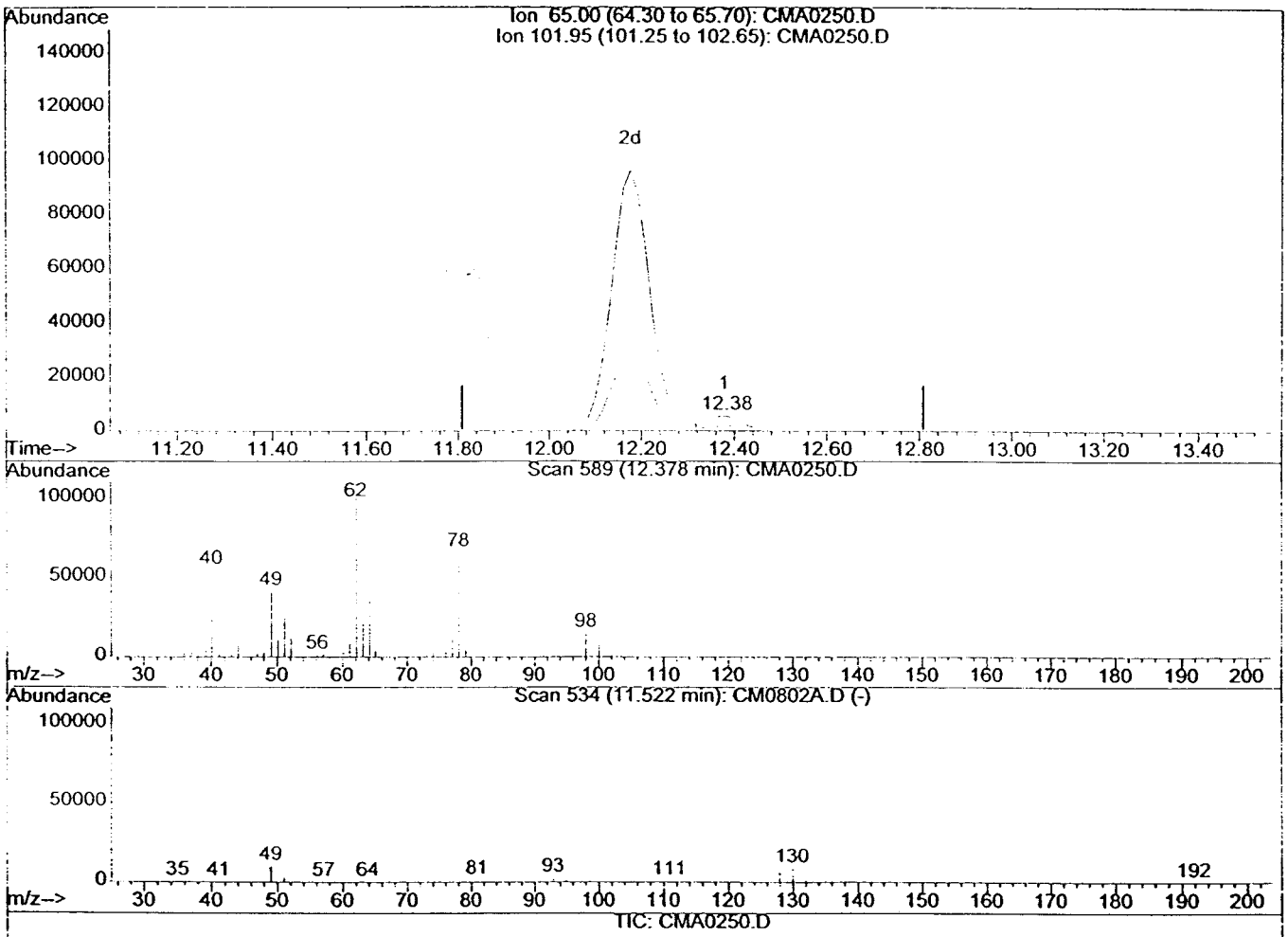
Ion	Exp%	Act%
135.00	100	100
134.95	56.30	60.23
86.90	32.70	31.69
0.00	0.00	0.00

after BH 8-6-02

CMA0250.D TO14S.M Tue Aug 06 08:50:06 2002

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0250.D Vial: 3
Acq On : 5 Aug 2002 14:33 Operator: BDH
Sample : 250ng/10uL/50ppb INITIAL CALIB. Inst : MARILY
Misc : Pi/Pf=1 MA135ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 5 15:05 2002 Quant Results File: temp.r

Method : D:\HPCHEM\1\METHODS\8260W50.M (RTE Integrator)
Title : 8260
Last Update : Sun Aug 04 20:59:43 2002
Response via : Multiple Level Calibration



TIC: CMA0250.D

(23) 1,2-Dichloroethane d4 SURR#1 (S)

12.38min 13.50ng

response 29116

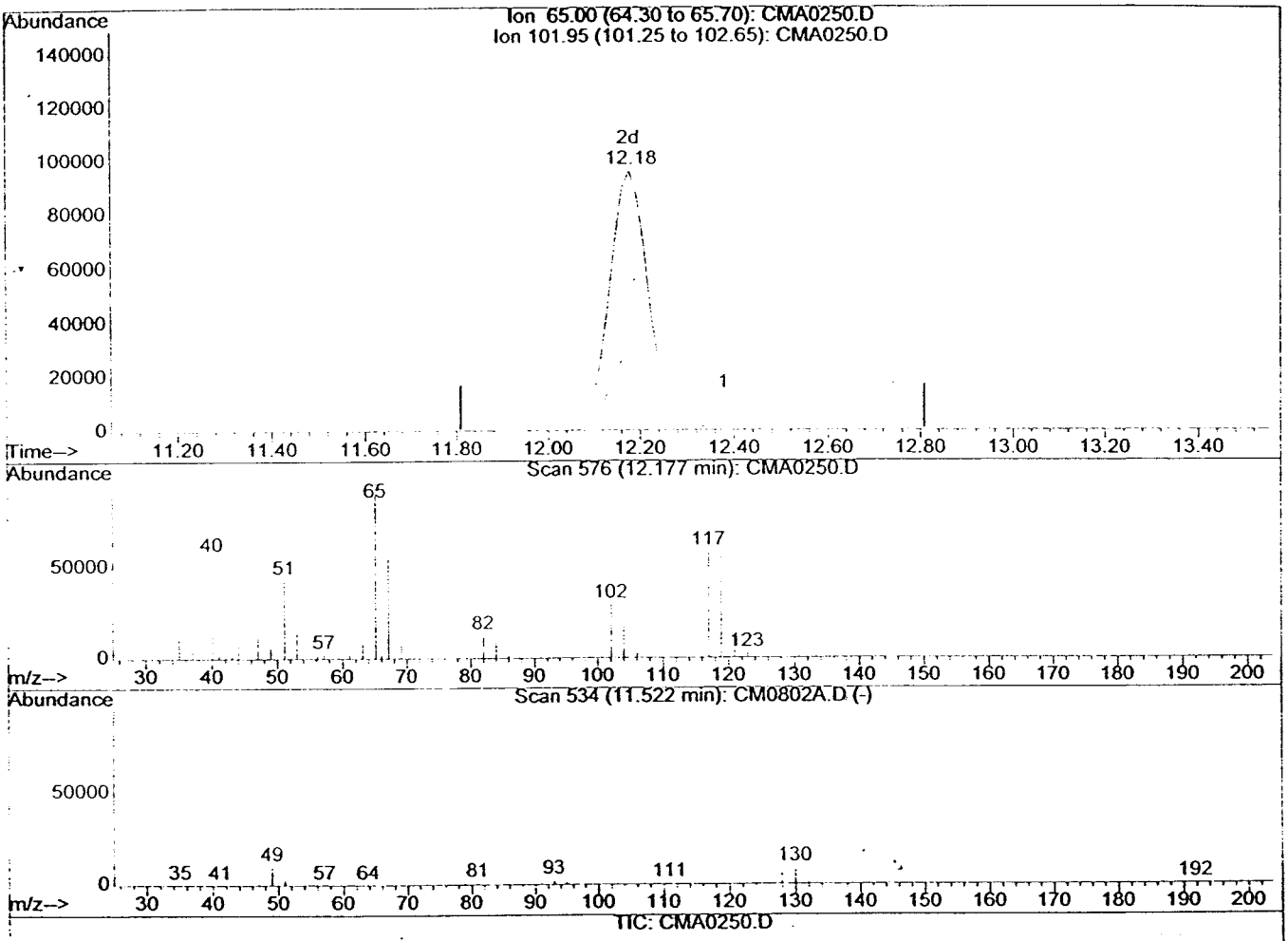
Ion	Exp%	Act%
65.00	100	100
101.95	22.40	30.92#
0.00	0.00	0.00
0.00	0.00	0.00

before missed peak

CMA0250.D 8260W50.M Mon Aug 05 15:32:16 2002

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0250.D Vial: 3
Acq On : 5 Aug 2002 14:33 Operator: BDH
Sample : 250ng/10uL/50ppb INITIAL CALIB. Inst : MARILYN
Misc : Pi/Pf=1 MA135ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 5 15:32 2002 Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\8260W50.M (RTE Integrator)
Title : 8260
Last Update : Sun Aug 04 20:59:43 2002
Response via : Multiple Level Calibration



(23) 1,2-Dichloroethane d4 SURR#1 (S)

12.18min 257.22ng m

response 554812

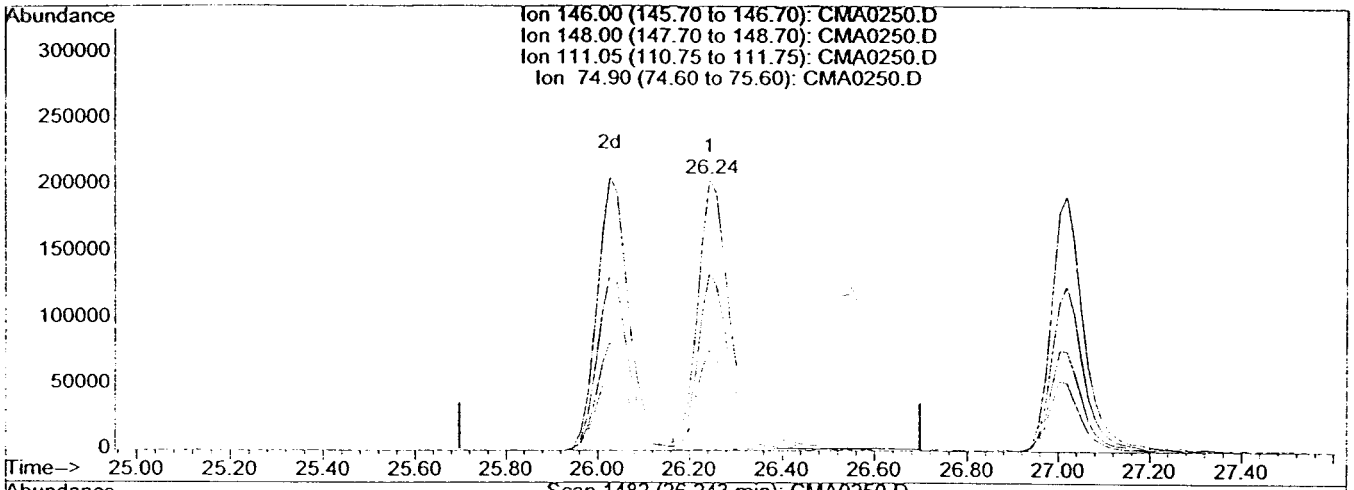
Ion	Exp%	Act%
65.00	100	100
101.95	22.40	1.62#
0.00	0.00	0.00
0.00	0.00	0.00

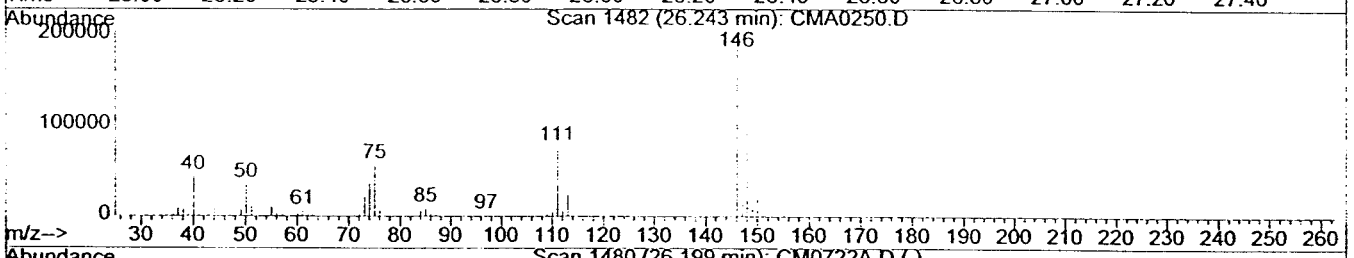
8/5/02

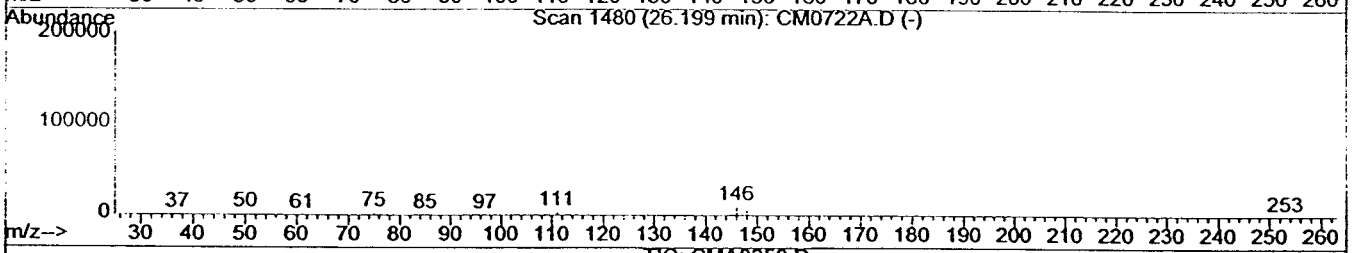
CMA0250.D 8260W50.M Mon Aug 05 15:32:25 2002

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0250.D Vial: 3
Acq On : 5 Aug 2002 14:33 Operator: BDH
Sample : 250ng/10uL/50ppb INITIAL CALIB. Inst : MARILYN
Misc : Pi/Pf=1 MA135ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 5 15:32 2002 Quant Results File: temp.r

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Jul 22 10:42:36 2002
Response via : Multiple Level Calibration







TIC: CMA0250.D

(52) 1,3-Dichlorobenzene

26.24min 223.44ng

response 1027733

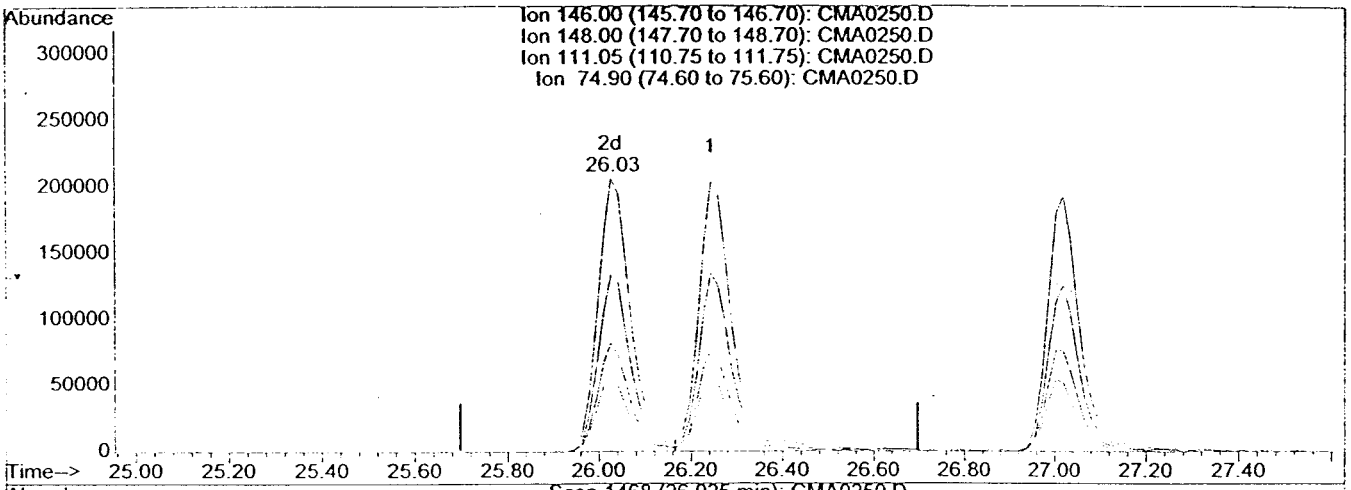
Ion	Exp%	Act%
146.00	100	100
148.00	66.40	65.97
111.05	44.40	37.34
74.90	35.60	28.29#

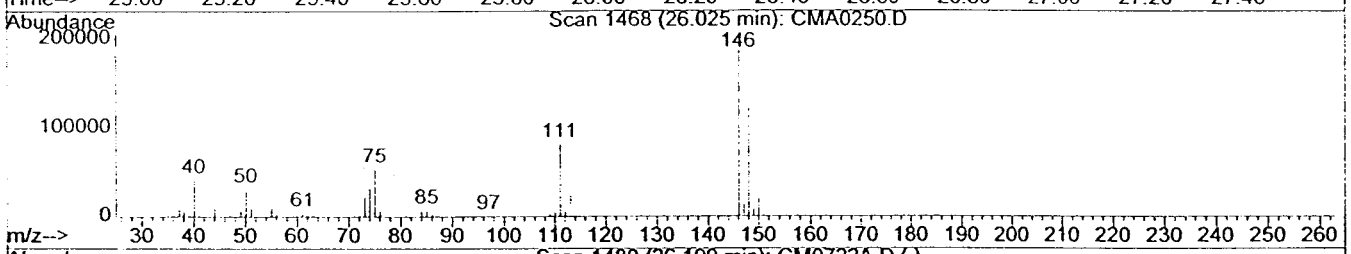
before
(wrong peak)

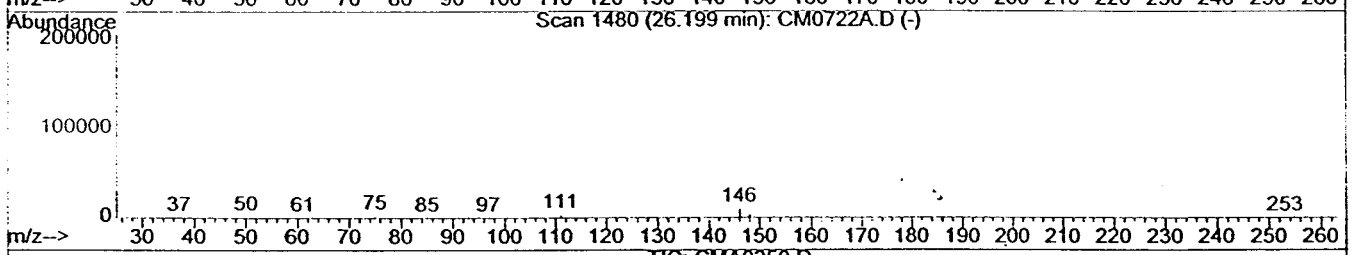
CMA0250.D TO14S.M Mon Aug 05 15:33:45 2002

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0250.D Vial: 3
Acq On : 5 Aug 2002 14:33 Operator: BDH
Sample : 250ng/10uL/50ppb INITIAL CALIB. Inst : MARILYN
Misc : Pi/Pf=1 MA135ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 5 15:33 2002 Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Jul 22 10:42:36 2002
Response via : Multiple Level Calibration







TIC: CMA0250.D

(52) 1,3-Dichlorobenzene

26.03min 220.92ng m

response 1016137

Ion	Exp%	Act%
146.00	100	100
148.00	66.40	66.72
111.05	44.40	37.76
74.90	35.60	28.61

after
BH
8/5/02

CMA0250.D TO14S.M Mon Aug 05 15:33:50 2002

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0250.D Vial: 3
Acq On : 5 Aug 2002 14:33 Operator: BDH
Sample : 250ng/10uL/50ppb INITIAL CALIB. Inst : MARILYN
Misc : Pi/Pf=1 MA135ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 5 15:05 2002 Quant Results File: TO14S.RES

Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Jul 22 10:42:36 2002
Response via : Initial Calibration
DataAcq Meth : TO14S
IS QA File : D:\HPCHEM\1\DATA02\M0722A\CM0722A.D (22 Jul 2002 9:57)

original

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar
1) Bromochloromethane IS#1	11.04	128	513758	250.00	ng	-0.1 127.79
26) 1,4-Difluorobenzene IS#2	12.97	114	2135053	250.00	ng	-0.1 131.07
36) Chlorobenzene-d5 IS#3	20.20	117	1447407	250.00	ng	-0.1 117.32

System Monitoring Compounds

23) 1,2-Dichloroethane d4 SURR	12.38	65	29116	13.50	ng	0.0
Spiked Amount 250.000 Range 61 - 140 Recovery = 5.40%#						
32) Toluene-d8 SURR#2	16.48	98	1555851	236.41	ng	-0.1
Spiked Amount 250.000 Range 90 - 109 Recovery = 94.56%						
46) 4-Bromofluorobenzene SURR#	23.32	95	1122647	233.28	ng	-0.1
Spiked Amount 250.000 Range 87 - 112 Recovery = 93.31%						

Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.64	85	341345	198.33	ng	10
3) Dichlorotetrafluoroethane	3.82	135	413691	208.29	ng	# 4
4) Chloromethane	4.10	50	382183	333.51	ng	# 9
5) Vinyl chloride	4.31	62	374002	299.64	ng	9
6) Bromomethane	5.13	94	300126	154.51	ng	# 9
7) Chloroethane	5.24	64	250820	265.36	ng	9
8) Trichlorofluoromethane	5.72	101	1407395	300.09	ng	10
9) 1,1,2-Trichlorotrifluoroet	6.51	151	1172168	291.36	ng	8
10) 1,1-Dichloroethene	6.87	96	601591	306.27	ng	8
12) Methylene chloride	7.77	49	708232	280.64	ng	9
13) Carbon disulfide	7.86	76	1631270	299.97	ng	10
14) methyl-Tert-Butyl Ether	8.06	73	1113348	291.52	ng	9
15) trans-1,2-Dichloroethene	8.34	96	688623	300.23	ng	9
16) n-Hexane	8.45	57	641702	312.35	ng	#
17) 1,1-Dichloroethane	9.16	63	1109055	294.06	ng	9
18) cis-1,2-Dichloroethene	10.38	61	890816	295.49	ng	9
19) Chloroform	10.70	83	1342692	290.55	ng	9
20) Isooctane	11.65	57	2126597	302.06	ng	9
21) 1,1,1-Trichloroethane	11.54	97	1216948	286.01	ng	8
22) Carbon tetrachloride	12.10	117	1231579	270.23	ng	9
24) 1,2-Dichloroethane	12.38	62	644859	278.04	ng	# 9
25) 1,2-Dibromoethane	19.26	107	1151963	272.93	ng	9
27) Benzene	12.44	78	1576639	283.83	ng	9

(#) = qualifier out of range (m) = manual integration
CMA0250.D TO14S.M Mon Aug 05 15:05:28 2002 Page

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0250.D Vial: 3
Acq On : 5 Aug 2002 14:33 Operator: BDH
Sample : 250ng/10uL/50ppb INITIAL CALIB. Inst : MARILYN
Misc : Pi/Pf=1 MA135ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 5 15:05 2002 Quant Results File: TO14S.RES

Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Jul 22 10:42:36 2002
Response via : Initial Calibration
DataAcq Meth : TO14S

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
28)	Trichloroethene	13.76	130	902272	264.90 ng		93
29)	1,2-Dichloropropane	14.13	63	668662	279.79 ng		94
30)	Bromodichloromethane	14.66	83	1525599	270.00 ng		99
31)	cis-1,3-Dichloropropene	15.86	75	1010217	271.88 ng		94
33)	Toluene	16.66	92	1002777	252.16 ng	#	98
34)	trans-1,3-Dichloropropene	17.02	75	842619	268.49 ng		98
35)	1,1,2-Trichloroethane	17.42	97	661739	265.55 ng		96
37)	Tetrachloroethene	18.26	164	838662	270.12 ng		91
38)	Dibromochloromethane	18.74	127	1127298	287.32 ng	#	96
39)	Chlorobenzene	20.30	112	1371068	266.17 ng		92
40)	Ethylbenzene	20.41	106	529523	260.44 ng		99
41)	m,p-Xylene	20.61	106	1313633	492.92 ng		94
42)	o-Xylene	21.74	106	623134	242.48 ng		98
43)	Styrene	21.82	104	1051850	237.66 ng		94
44)	Bromoform	22.73	173	1218411	282.41 ng		100
45)	1,1,2,2-Tetrachloroethane	23.08	83	1047650	307.25 ng		99
47)	1,4-Dichloro-2-butene	22.72	75	240027	332.54 ng		90
48)	4-Ethyltoluene	24.01	105	1532808	235.48 ng		94
49)	1,3,5-Trimethylbenzene	24.12	105	1276149	246.62 ng		92
50)	2-Chlorotoluene	24.21	91	1523283	230.94 ng		95
51)	1,2,4-Trimethylbenzene	25.09	105	1193077	222.40 ng		98
52)	1,3-Dichlorobenzene	26.24	146	1027733	223.44 ng	#	93
53)	1,4-Dichlorobenzene	26.24	146	1034312	214.89 ng	#	93
54)	1,2-Dichlorobenzene	27.02	146	981458	228.49 ng	#	92
55)	1,2,4-Trichlorobenzene	30.14	180	643383	187.53 ng		99
56)	Napthalene	30.67	128	916400	231.31 ng	#	90
57)	Hexachlorobutadiene	30.37	225	507487	156.15 ng		99

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0500.D Vial: 6
Acq On : 5 Aug 2002 16:23 Operator: BDH
Sample : 500ng/20uL/100ppb INITIAL CALIB. Inst : MARILYN
Misc : Pi/Pf=1 MA135ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 6 9:15 2002 Quant Results File: TO14S.RES

Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Aug 05 16:28:28 2002
Response via : Initial Calibration
DataAcq Meth : TO14S
IS QA File : D:\HPCHEM\1\DATA02\M0805A\CMA0250.D (5 Aug 2002 14:33)

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) Bromochloromethane IS#1	11.07	128	519713	250.00	ng	0.03 101.16%
26) 1,4-Difluorobenzene IS#2	12.98	114	2196175	250.00	ng	0.00 102.86%
36) Chlorobenzene-d5 IS#3	20.21	117	1515823	250.00	ng	0.00 104.73%

System Monitoring Compounds

23) 1,2-Dichloroethane d4 SURR	12.19	65	578543	258.33	ng	0.00
Spiked Amount 250.000 Range 61 - 140 Recovery = 103.33%						
32) Toluene-d8 SURR#2	16.49	98	1615445	243.73	ng	0.00
Spiked Amount 250.000 Range 90 - 109 Recovery = 97.49%						
46) 4-Bromofluorobenzene SURR#	23.33	95	1186368	243.23	ng	0.00
Spiked Amount 250.000 Range 87 - 112 Recovery = 97.29%						

Target Compounds

							Qvalue
2) Dichlorodifluoromethane	3.65	85	873069m	404.31	ng		94
3) Dichlorotetrafluoroethane	3.83	135	1373617m	742.34	ng		52
4) Chloromethane	4.11	50	785469	602.18	ng		93
5) Vinyl chloride	4.33	62	735695	577.54	ng		99
6) Bromomethane	5.14	94	683913	435.57	ng	#	98
7) Chloroethane	5.26	64	493770	554.60	ng		98
8) Trichlorofluoromethane	5.73	101	2874815	582.18	ng		100
9) 1,1,2-Trichlorotrifluoroet	6.53	151	2414509	579.26	ng		80
10) 1,1-Dichloroethene	6.88	96	1237420	587.98	ng		87
12) Methylene chloride	7.78	49	1442026	545.78	ng		95
13) Carbon disulfide	7.89	76	3345365	578.03	ng		99
14) methyl-Tert-Butyl Ether	8.07	73	2340245	579.67	ng		99
15) trans-1,2-Dichloroethene	8.37	96	1412989	578.82	ng		92
16) n-Hexane	8.46	57	1321686	565.34	ng	#	1
17) 1,1-Dichloroethane	9.17	63	2261142	574.34	ng		99
18) cis-1,2-Dichloroethene	10.40	61	1812191	573.53	ng		90
19) Chloroform	10.71	83	2701105	565.11	ng		98
20) Isooctane	11.66	57	4398515	565.28	ng		95
21) 1,1,1-Trichloroethane	11.57	97	2481586	568.81	ng		89
22) Carbon tetrachloride	12.11	117	2527602	557.89	ng		99
24) 1,2-Dichloroethane	12.39	62	1317499	547.52	ng	#	97
25) 1,2-Dibromoethane	19.27	107	2335297	538.78	ng		99
27) Benzene	12.47	78	3240451	551.21	ng		97

(#) = qualifier out of range (m) = manual integration
CMA0500.D TO14S.M Tue Aug 06 09:15:57 2002 Page 1

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0500.D Vial: 6
Acq On : 5 Aug 2002 16:23 Operator: BDH
Sample : 500ng/20uL/100ppb INITIAL CALIB. Inst : MARILYN
Misc : Pi/Pf=1 MA135ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 6 9:15 2002 Quant Results File: TO14S.RES

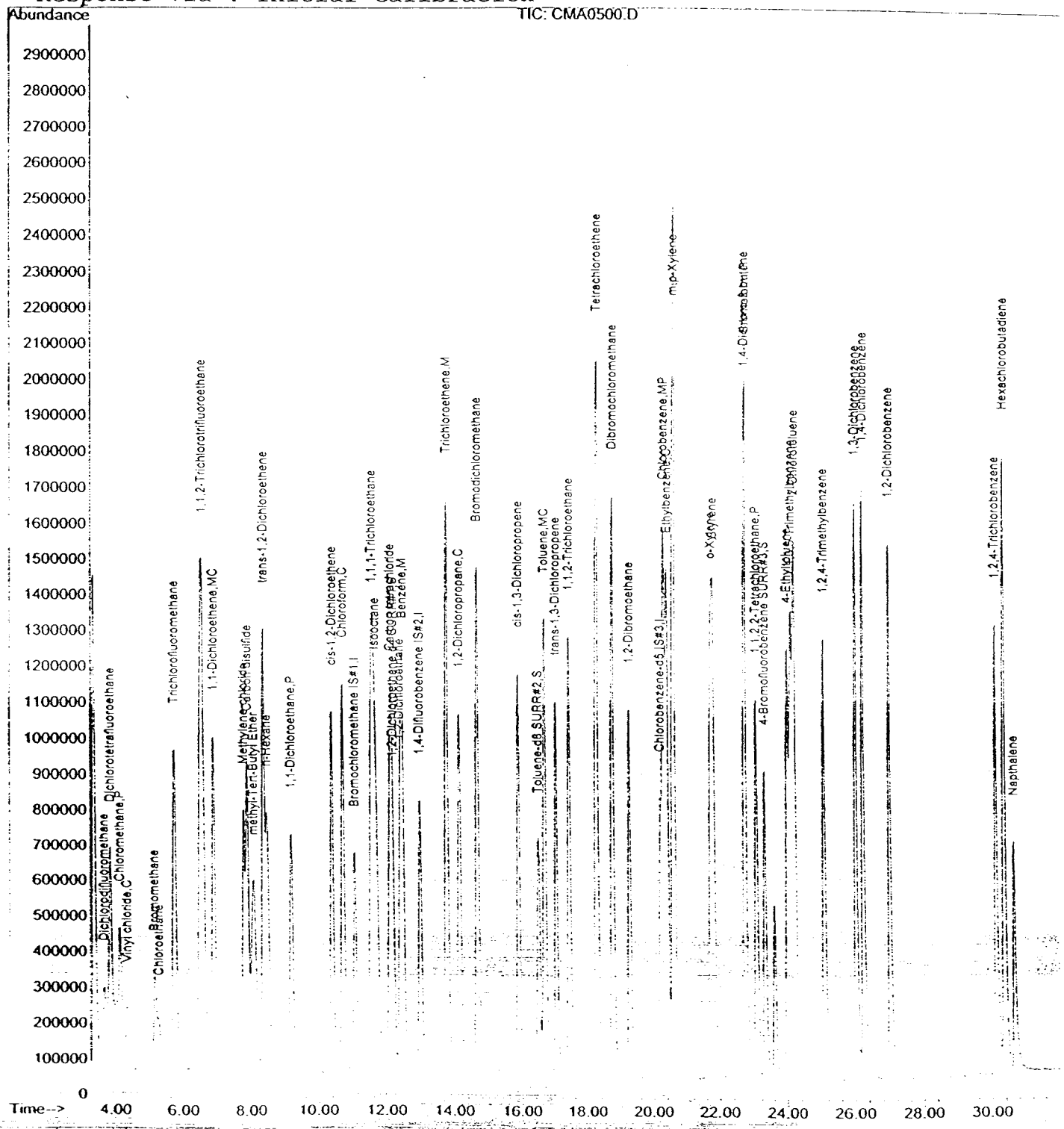
Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Aug 05 16:28:28 2002
Response via : Initial Calibration
DataAcq Meth : TO14S

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
28) Trichloroethene	13.77	130	1851838	533.85 ng		93
29) 1,2-Dichloropropane	14.14	63	1366939	544.75 ng		94
30) Bromodichloromethane	14.67	83	3103955	533.44 ng		99
31) cis-1,3-Dichloropropene	15.88	75	2067203	535.72 ng		94
33) Toluene	16.67	92	2088662	528.84 ng	#	98
34) trans-1,3-Dichloropropene	17.03	75	1761709	538.56 ng		98
35) 1,1,2-Trichloroethane	17.43	97	1349851	527.50 ng		96
37) Tetrachloroethene	18.27	164	1775649	554.06 ng		92
38) Dibromochloromethane	18.75	127	2276755	537.89 ng	#	96
39) Chlorobenzene	20.31	112	2870342	546.83 ng		92
40) Ethylbenzene	20.41	106	1132883	552.37 ng		98
41) m,p-Xylene	20.60	106	2748950	1055.13 ng		96
42) o-Xylene	21.75	106	1314164	529.93 ng		97
43) Styrene	21.81	104	2236856	525.57 ng		94
44) Bromoform	22.74	173	2428299	526.88 ng		99
45) 1,1,2,2-Tetrachloroethane	23.08	83	2065443	542.87 ng		100
47) 1,4-Dichloro-2-butene	22.73	75	496033	574.65 ng		89
48) 4-Ethyltoluene	24.02	105	3440375	550.30 ng	#	88
49) 1,3,5-Trimethylbenzene	24.13	105	2570364	537.36 ng		89
50) 2-Chlorotoluene	24.22	91	3264242	522.41 ng		96
51) 1,2,4-Trimethylbenzene	25.10	105	2575088	524.51 ng		98
52) 1,3-Dichlorobenzene	26.03	146	2151983	510.40 ng	#	93
53) 1,4-Dichlorobenzene	26.25	146	2237107	509.53 ng	#	93
54) 1,2-Dichlorobenzene	27.01	146	1971106	501.72 ng	#	94
55) 1,2,4-Trichlorobenzene	30.15	180	1380225	505.57 ng		99
56) Napthalene	30.68	128	1822625	531.63 ng	#	92
57) Hexachlorobutadiene	30.38	225	1087414	468.52 ng		99

(#) = qualifier out of range (m) = manual integration
CMA0500.D TO14S.M Tue Aug 06 09:15:57 2002 Page 2

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0500.D Vial: 6
Acq On : 5 Aug 2002 16:23 Operator: BDH
Sample : 500ng/20uL/100ppb INITIAL CALIB. Inst : MARILYN
Misc : Pi/Pf=1 MA135ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 6 9:15 2002 Quant Results File: TO14S.R

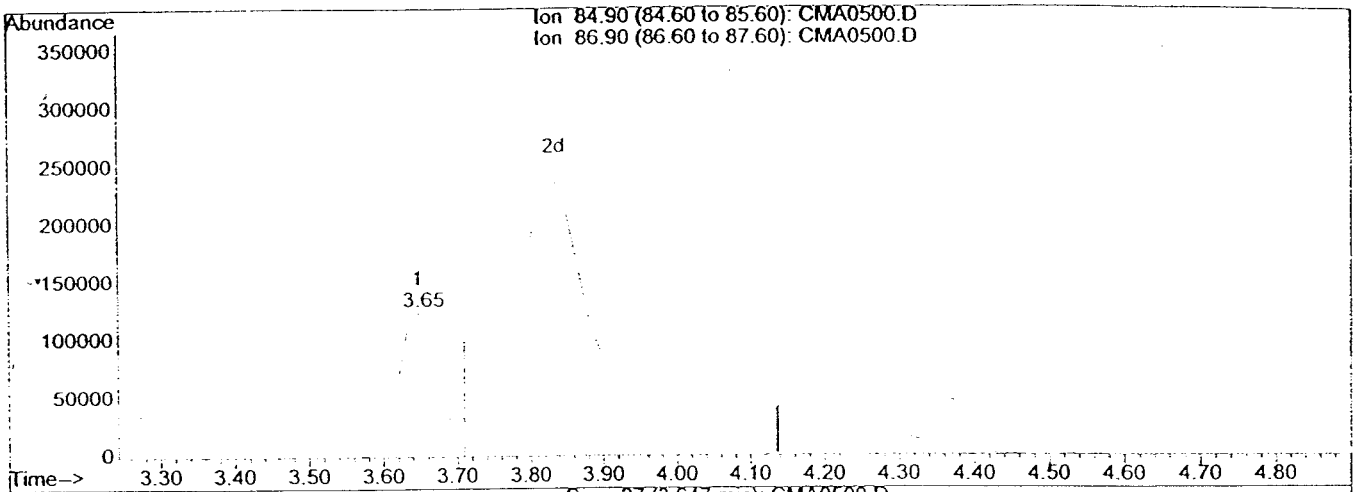
Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Tue Aug 06 09:02:44 2002
Response via : Initial Calibration

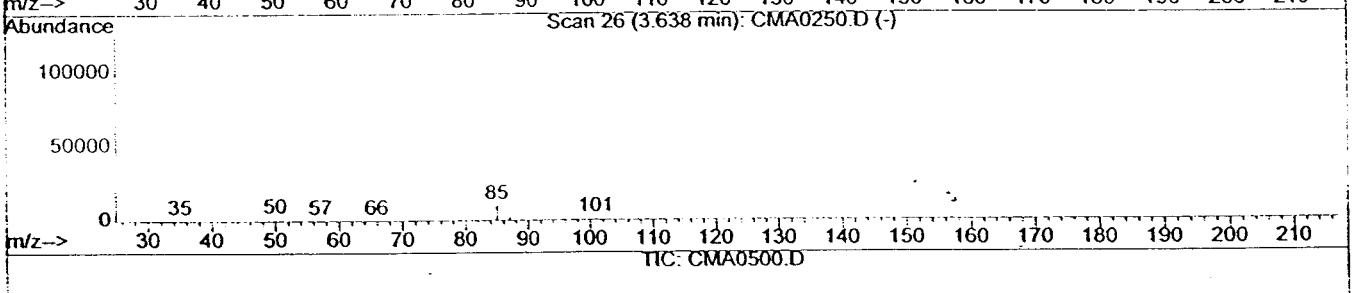


CMA0500.D TO14S.M Tue Aug 06 09:15:59 2002 Page

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0500.D Vial: 6
Acq On : 5 Aug 2002 16:23 Operator: BDH
Sample : 500ng/20uL/100ppb INITIAL CALIB. Inst : MARILYN
Misc : Pi/Pf=1 MA135ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 5 16:55 2002 Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Tue Aug 06 08:35:03 2002
Response via : Multiple Level Calibration





TIC: CMA0500.D

(2) Dichlorodifluoromethane

3.65min 316.70ng

response 683875

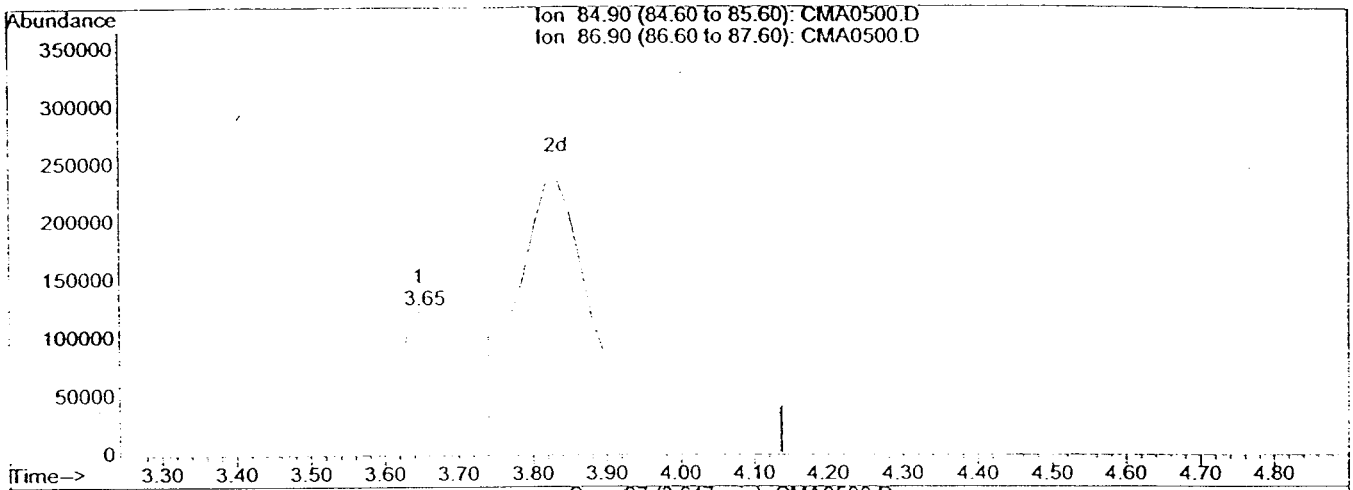
Ion	Exp%	Act%
84.90	100	100
86.90	33.50	36.94
0.00	0.00	0.00
0.00	0.00	0.00

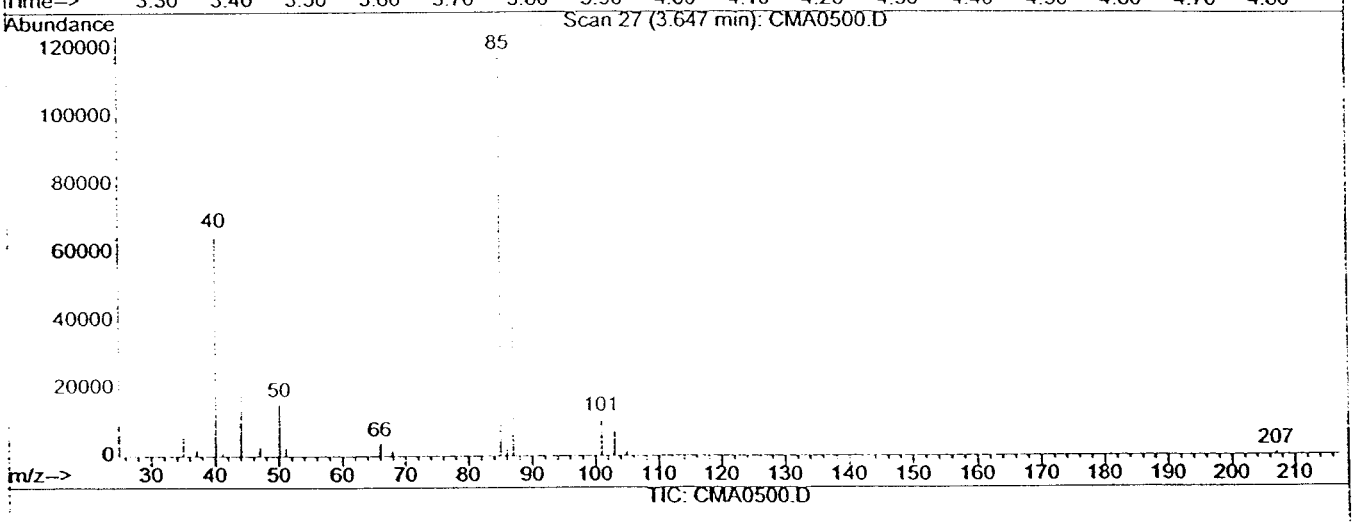
before (failing)

CMA0500.D TO14S.M Tue Aug 06 08:52:26 2002

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0500.D Vial: 6
Acq On : 5 Aug 2002 16:23 Operator: BDH
Sample : 500ng/20uL/100ppb INITIAL CALIB. Inst : MARILY
Misc : Pi/Pf=1 MA135ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 6 9:15 2002 Quant Results File: temp.r

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Tue Aug 06 09:02:44 2002
Response via : Multiple Level Calibration





(2) Dichlorodifluoromethane

3.65min 404.31ng m

response 873069

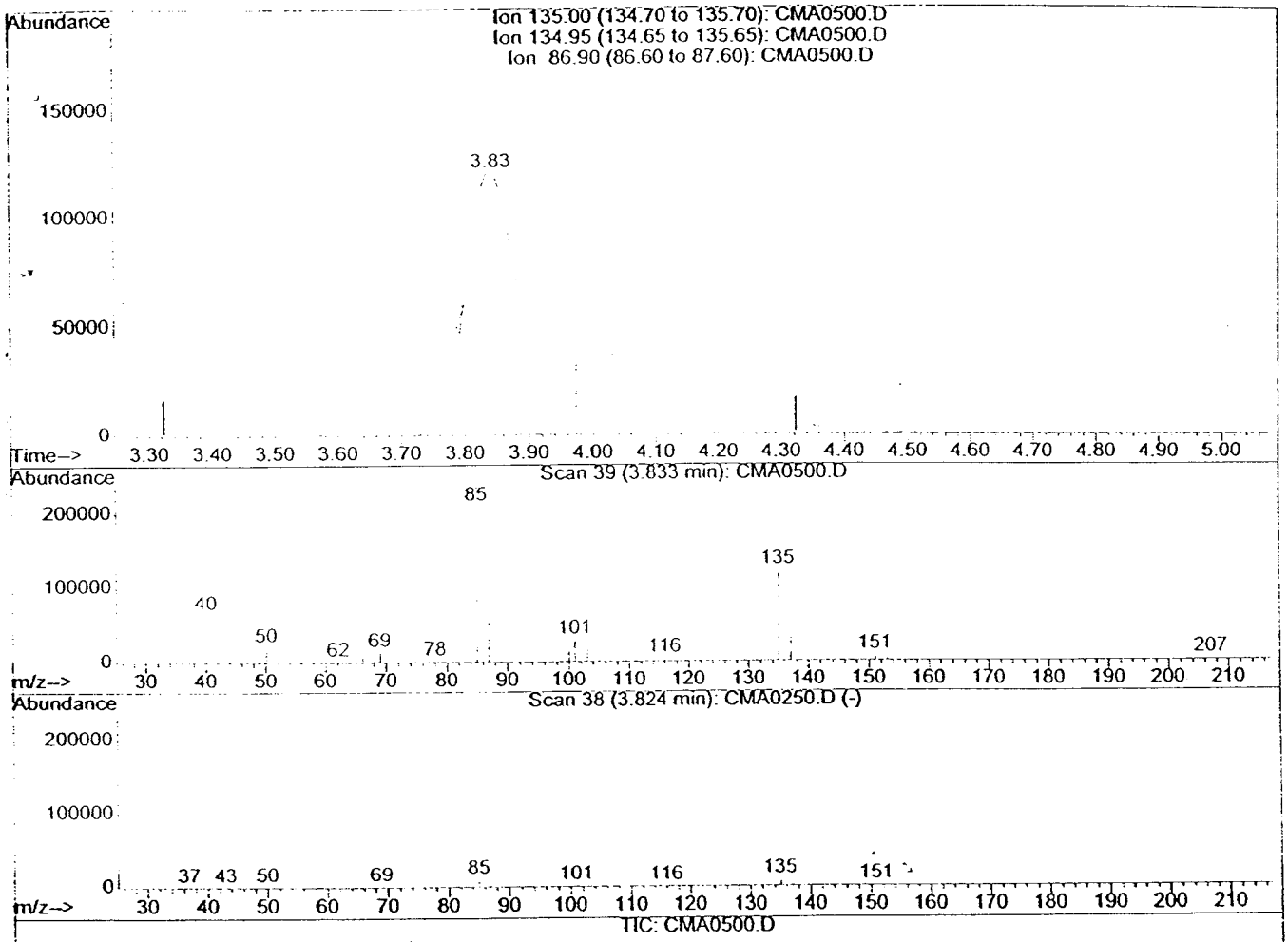
Ion	Exp%	Act%
84.90	100	100
86.90	33.50	28.93
0.00	0.00	0.00
0.00	0.00	0.00

TM 8-6-02

CMA0500.D TO14S.M Tue Aug 06 09:15:37 2002

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0500.D Vial: 6
Acq On : 5 Aug 2002 16:23 Operator: BDH
Sample : 500ng/20uL/100ppb INITIAL CALIB. Inst : MARILYN
Misc : Pi/Pf=1 MA135ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 6 8:52 2002 Quant Results File: temp.re

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Tue Aug 06 08:35:03 2002
Response via : Multiple Level Calibration



(3) Dichlorotetrafluoroethane

3.83min 437.02ng

response 808656

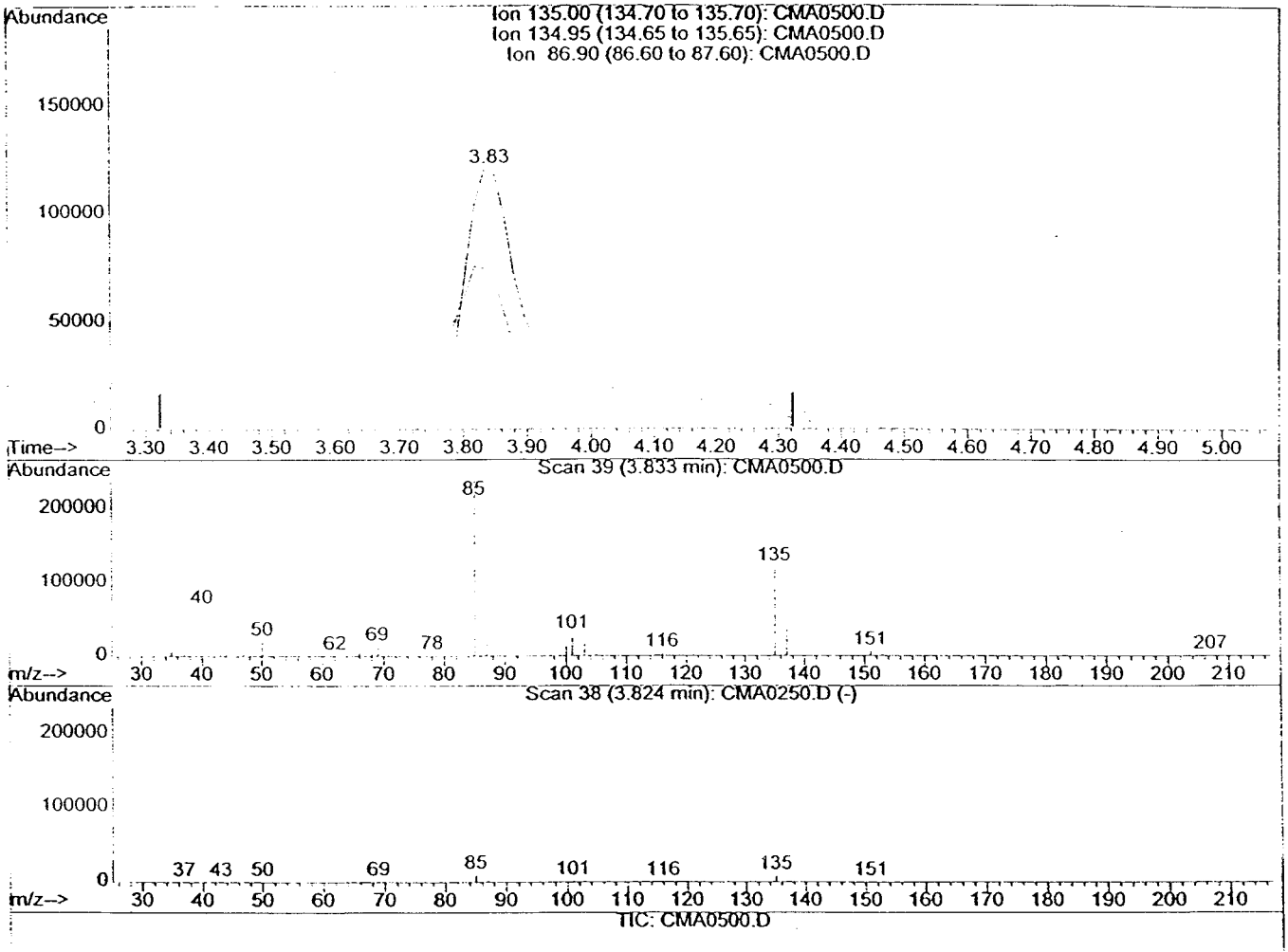
Ion	Exp%	Act%
135.00	100	100
134.95	56.30	100.00#
86.90	32.70	48.14#
0.00	0.00	0.00

before (tailing)

CMA0500.D TO14S.M Tue Aug 06 08:53:05 2002

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0500.D Vial: 6
Acq On : 5 Aug 2002 16:23 Operator: BDH
Sample : 500ng/20uL/100ppb INITIAL CALIB. Inst : MARIL
Misc : Pi/Pf=1 MA135ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 6 8:53 2002 Quant Results File: temp.r

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Tue Aug 06 08:35:03 2002
Response via : Multiple Level Calibration



(3) Dichlorotetrafluoroethane

3.83min 742.34ng m

response 1373617

Ion	Exp%	Act%
135.00	100	100
134.95	56.30	58.87
86.90	32.70	28.34
0.00	0.00	0.00

after BAA 8/6/02

CMA0500.D TO14S.M Tue Aug 06 08:53:11 2002

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0500.D Vial: 6
Acq On : 5 Aug 2002 16:23 Operator: BDH
Sample : 500ng/20uL/100ppb INITIAL CALIB. Inst : MARILYN
Misc : Pi/Pf=1 MA135ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 6 9:15 2002 Quant Results File: TO14S.RES

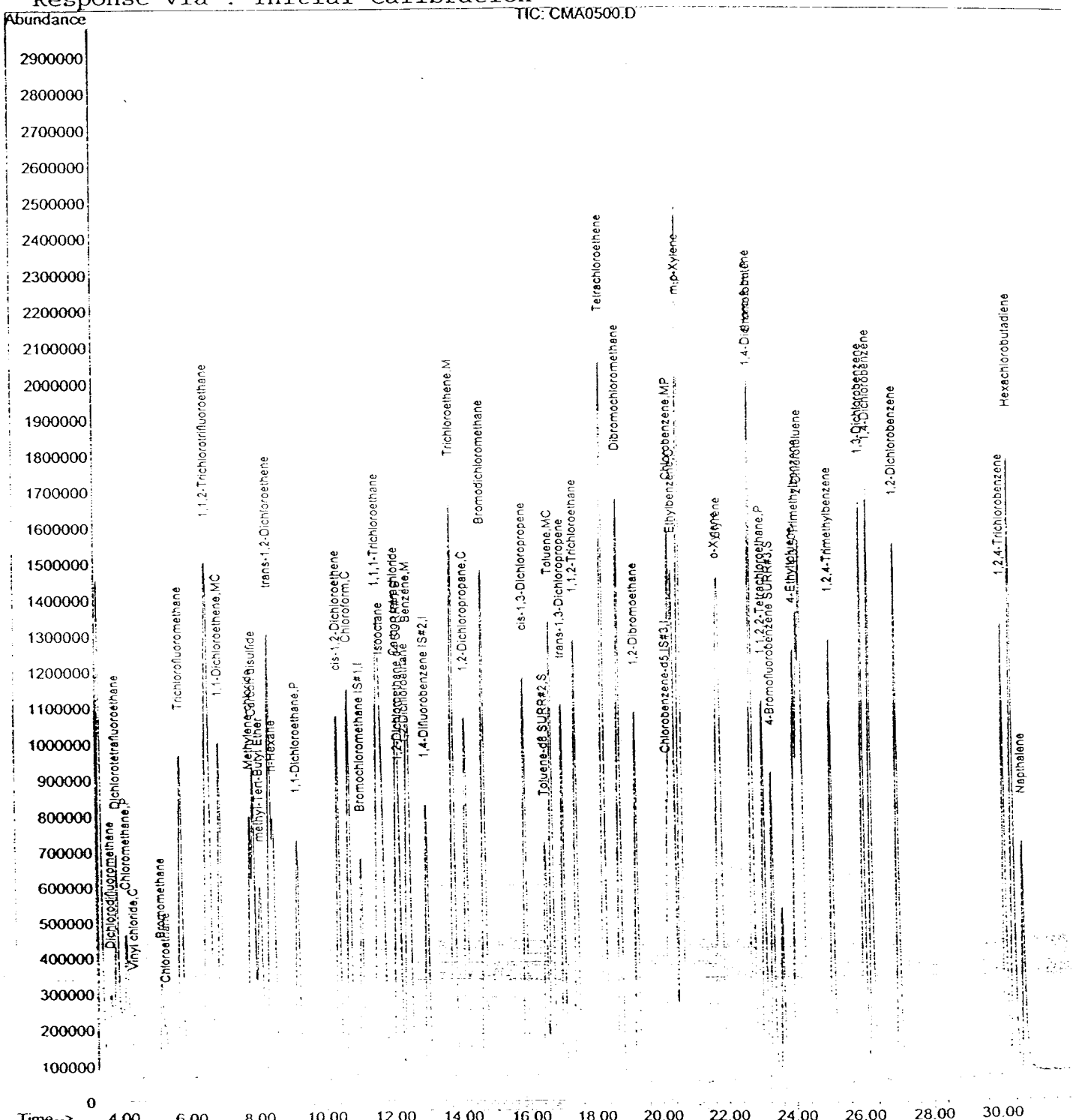
Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Aug 05 16:28:28 2002
Response via : Initial Calibration
DataAcq Meth : TO14S

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
28) Trichloroethene	13.77	130	1851838	533.85 ng		93
29) 1,2-Dichloropropane	14.14	63	1366939	544.75 ng		94
30) Bromodichloromethane	14.67	83	3103955	533.44 ng		99
31) cis-1,3-Dichloropropene	15.88	75	2067203	535.72 ng		94
33) Toluene	16.67	92	2088662	528.84 ng	#	98
34) trans-1,3-Dichloropropene	17.03	75	1761709	538.56 ng		98
35) 1,1,2-Trichloroethane	17.43	97	1349851	527.50 ng		96
37) Tetrachloroethene	18.27	164	1775649	554.06 ng		92
38) Dibromochloromethane	18.75	127	2276755	537.89 ng	#	96
39) Chlorobenzene	20.31	112	2870342	546.83 ng		92
40) Ethylbenzene	20.41	106	1132883	552.37 ng		98
41) m,p-Xylene	20.60	106	2748950	1055.13 ng		96
42) o-Xylene	21.75	106	1314164	529.93 ng		97
43) Styrene	21.81	104	2236856	525.57 ng		94
44) Bromoform	22.74	173	2428299	526.88 ng		99
45) 1,1,2,2-Tetrachloroethane	23.08	83	2065443	542.87 ng		100
47) 1,4-Dichloro-2-butene	22.73	75	496033	574.65 ng		89
48) 4-Ethyltoluene	24.02	105	3440375	550.30 ng	#	88
49) 1,3,5-Trimethylbenzene	24.13	105	2570364	537.36 ng		89
50) 2-Chlorotoluene	24.22	91	3264242	522.41 ng		96
51) 1,2,4-Trimethylbenzene	25.10	105	2575088	524.51 ng		98
52) 1,3-Dichlorobenzene	26.03	146	2151983	510.40 ng	#	93
53) 1,4-Dichlorobenzene	26.25	146	2237107	509.53 ng	#	93
54) 1,2-Dichlorobenzene	27.01	146	1971106	501.72 ng	#	94
55) 1,2,4-Trichlorobenzene	30.15	180	1380225	505.57 ng		99
56) Napthalene	30.68	128	1822625	531.63 ng	#	92
57) Hexachlorobutadiene	30.38	225	1087414	468.52 ng		99

(#) = qualifier out of range (m) = manual integration

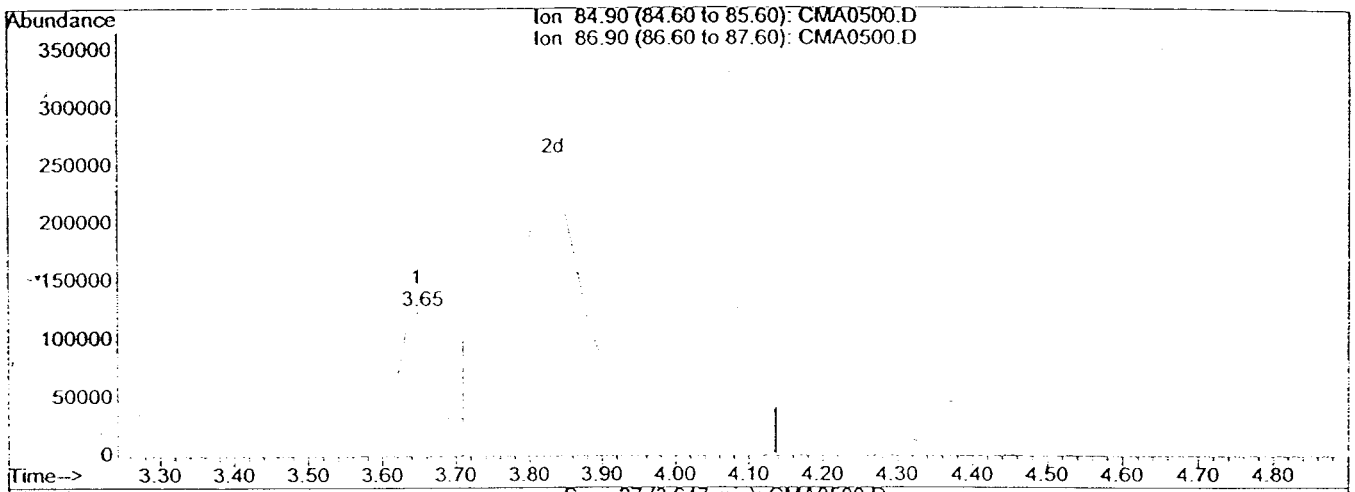
Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0500.D Vial: 6
Acq On : 5 Aug 2002 16:23 Operator: BDH
Sample : 500ng/20uL/100ppb INITIAL CALIB. Inst : MARILYN
Misc : Pi/Pf=1 MA135ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 6 9:15 2002 Quant Results File: TO14S.RI

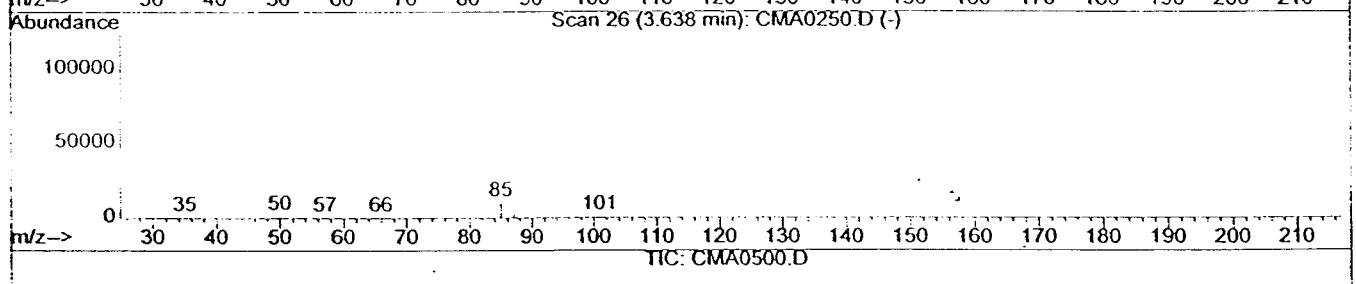
Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Tue Aug 06 09:02:44 2002
Response via : Initial Calibration



Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0500.D Vial: 6
Acq On : 5 Aug 2002 16:23 Operator: BDH
Sample : 500ng/20uL/100ppb INITIAL CALIB. Inst : MARILYN
Misc : Pi/Pf=1 MA135ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 5 16:55 2002 Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Tue Aug 06 08:35:03 2002
Response via : Multiple Level Calibration





TIC: CMA0500.D

(2) Dichlorodifluoromethane

3.65min 316.70ng

response 683875

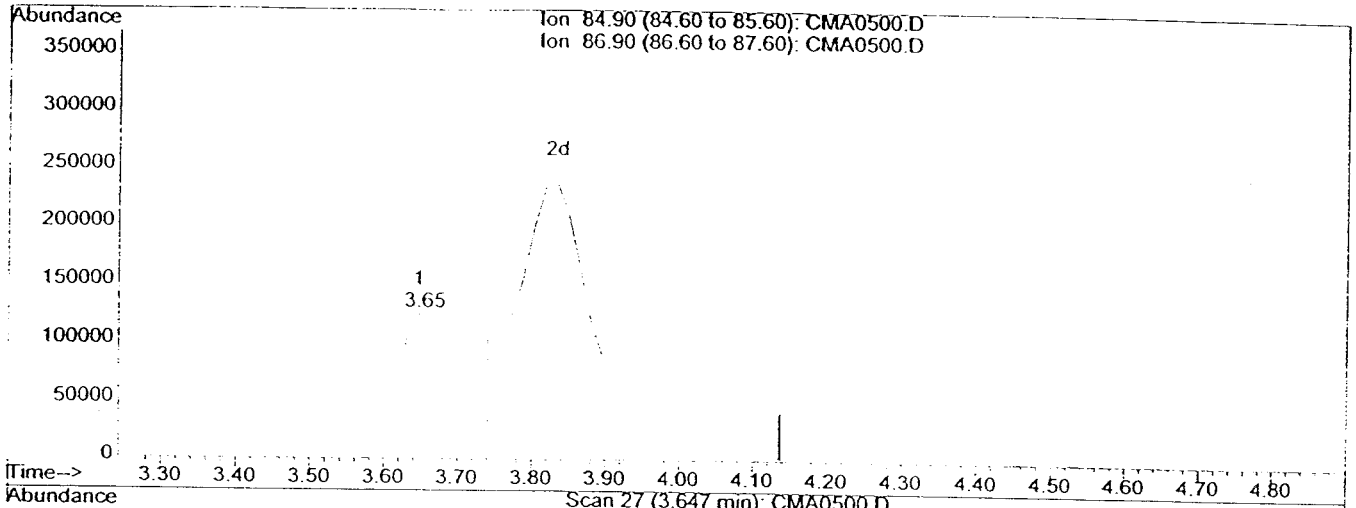
Ion	Exp%	Act%
84.90	100	100
86.90	33.50	36.94
0.00	0.00	0.00
0.00	0.00	0.00

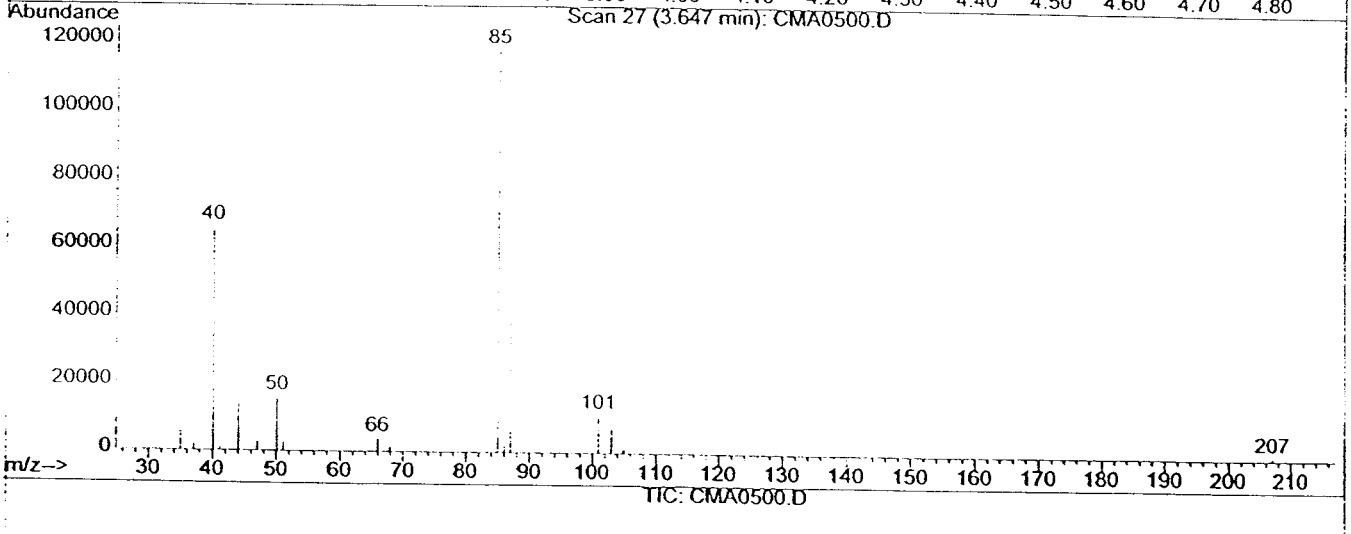
before (failing)

CMA0500.D TO14S.M Tue Aug 06 08:52:26 2002

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0500.D Vial: 6
Acq On : 5 Aug 2002 16:23 Operator: BDH
Sample : 500ng/20uL/100ppb INITIAL CALIB. Inst : MARILY
Misc : Pi/Pf=1 MA135ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 6 9:15 2002 Quant Results File: temp.r

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Tue Aug 06 09:02:44 2002
Response via : Multiple Level Calibration





(2) Dichlorodifluoromethane

3.65min 404.31ng m

response 873069

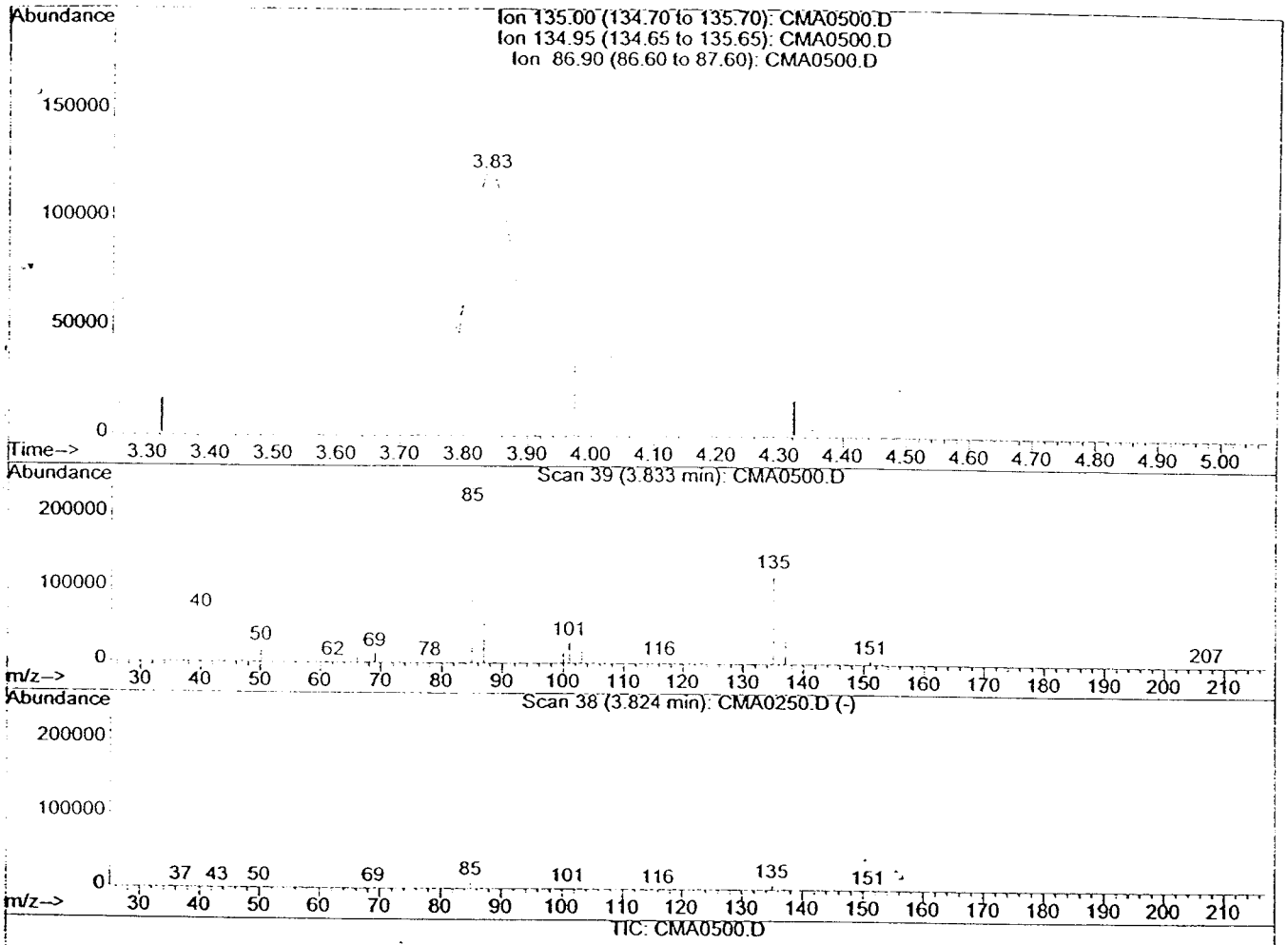
Ion	Exp%	Act%
84.90	100	100
86.90	33.50	28.93
0.00	0.00	0.00
0.00	0.00	0.00

TM 8-6-02

CMA0500.D TO14S.M Tue Aug 06 09:15:37 2002

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0500.D Vial: 6
Acq On : 5 Aug 2002 16:23 Operator: BDH
Sample : 500ng/20uL/100ppb INITIAL CALIB. Inst : MARILYN
Misc : Pi/Pf=1 MA135ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 6 8:52 2002 Quant Results File: temp.re

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Tue Aug 06 08:35:03 2002
Response via : Multiple Level Calibration



(3) Dichlorotetrafluoroethane

3.83min 437.02ng

response 808656

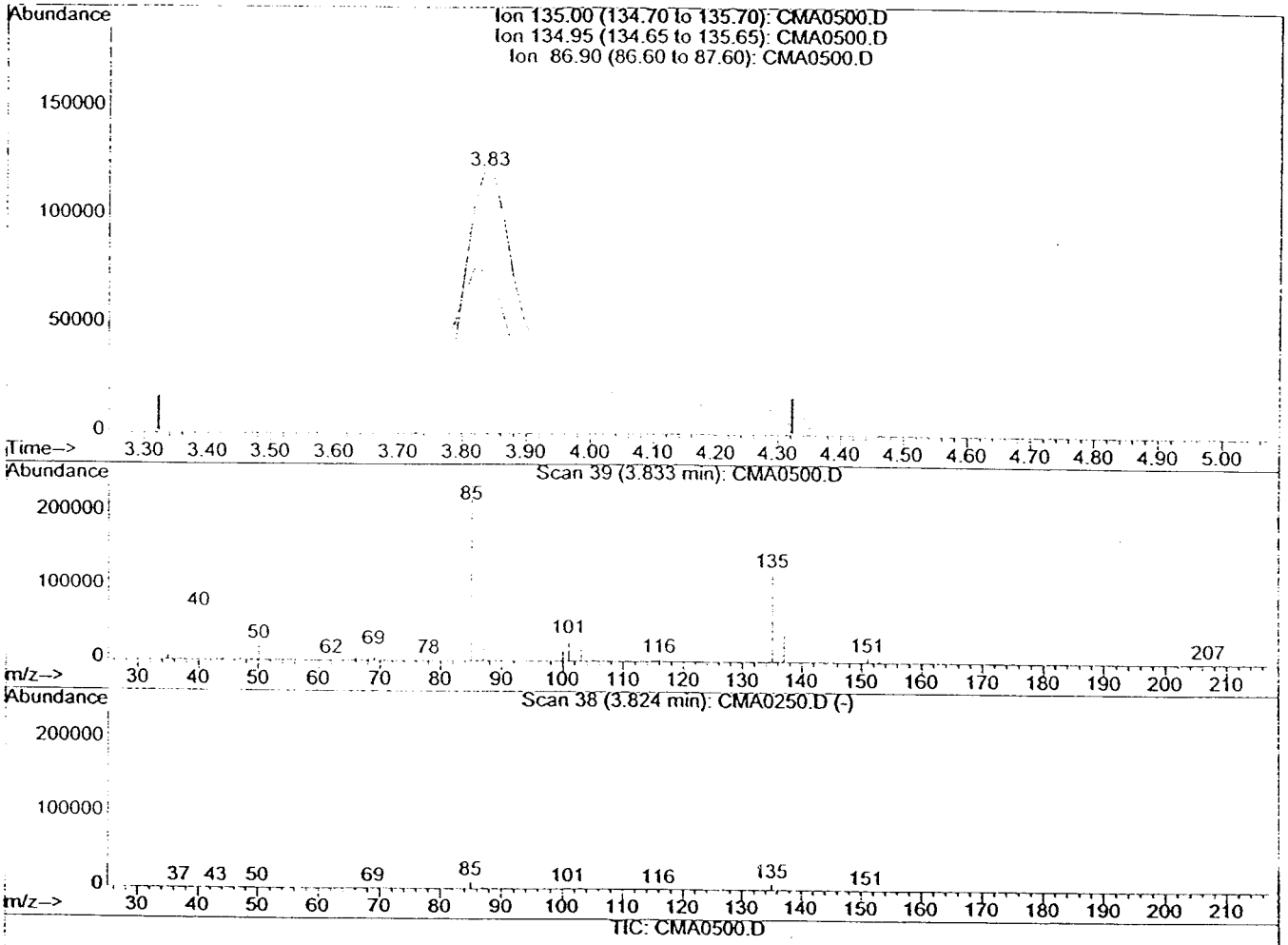
Ion	Exp%	Act%
135.00	100	100
134.95	56.30	100.00#
86.90	32.70	48.14#
0.00	0.00	0.00

before (tailing)

CMA0500.D TO14S.M Tue Aug 06 08:53:05 2002

Data File : D:\HPCHEM\1\DATA02\M0605A\CMA0500.D Vial: 6
Acq On : 5 Aug 2002 16:23 Operator: BDH
Sample : 500ng/20uL/100ppb INITIAL CALIB. Inst : MARILY
Misc : Pi/Pf=1 MA135ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 6 8:53 2002 Quant Results File: temp.r

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Tue Aug 06 08:35:03 2002
Response via : Multiple Level Calibration



(3) Dichlorotetrafluoroethane

3.83min 742.34ng m

response 1373617

Ion	Exp%	Act%
135.00	100	100
134.95	56.30	58.87
86.90	32.70	28.34
0.00	0.00	0.00

after BAA 8/6/02

CMA0500.D TO14S.M Tue Aug 06 08:53:11 2002

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0500.D Vial: 8
Acq On : 5 Aug 2002 16:23 Operator: BDH
Sample : 500ng/20uL/100ppb INITIAL CALIB. Inst : MARILYN
Misc : Pi/Pf=1 MA135ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 5 16:55 2002 Quant Results File: TO14S.RES

Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Aug 05 16:28:28 2002
Response via : Initial Calibration
DataAcq Meth : TO14S
IS QA File : D:\HPCHEM\1\DATA02\M0805A\CMA0250.D (5 Aug 2002 14:33)

original BH 8/5/02

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) Bromochloromethane IS#1	11.07	128	519713	250.00	ng	0.03 101.16%
26) 1,4-Difluorobenzene IS#2	12.98	114	2196175	250.00	ng	0.00 102.86%
36) Chlorobenzene-d5 IS#3	20.21	117	1515823	250.00	ng	0.00 104.73%

System Monitoring Compounds

23) 1,2-Dichloroethane d4 SURR	12.19	65	578543	258.33	ng	0.00
Spiked Amount 250.000 Range 61 - 140 Recovery = 103.33%						
32) Toluene-d8 SURR#2	16.49	98	1615445	243.73	ng	0.00
Spiked Amount 250.000 Range 90 - 109 Recovery = 97.49%						
46) 4-Bromofluorobenzene SURR#	23.33	95	1186368	243.23	ng	0.00
Spiked Amount 250.000 Range 87 - 112 Recovery = 97.29%						

Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.65	85	683875	316.70	ng		94
3) Dichlorotetrafluoroethane	3.83	135	808656	437.02	ng	#	52
4) Chloromethane	4.11	50	785469	602.18	ng		93
5) Vinyl chloride	4.33	62	735695	577.54	ng		99
6) Bromomethane	5.14	94	683913	435.57	ng	#	98
7) Chloroethane	5.26	64	493770	554.60	ng		98
8) Trichlorofluoromethane	5.73	101	2874815	582.18	ng		100
9) 1,1,2-Trichlorotrifluoroet	6.53	151	2414509	579.26	ng		80
10) 1,1-Dichloroethene	6.88	96	1237420	587.98	ng		87
12) Methylene chloride	7.78	49	1442026	545.78	ng		95
13) Carbon disulfide	7.89	76	3345365	578.03	ng		99
14) methyl-Tert-Butyl Ether	8.07	73	2340245	579.67	ng		99
15) trans-1,2-Dichloroethene	8.37	96	1412989	578.82	ng		92
16) n-Hexane	8.46	57	1321686	565.34	ng	#	1
17) 1,1-Dichloroethane	9.17	63	2261142	574.34	ng		99
18) cis-1,2-Dichloroethene	10.40	61	1812191	573.53	ng		90
19) Chloroform	10.71	83	2701105	565.11	ng		98
20) Isooctane	11.66	57	4398515	565.28	ng		95
21) 1,1,1-Trichloroethane	11.57	97	2481586	568.81	ng		89
22) Carbon tetrachloride	12.11	117	2527602	557.89	ng		99
24) 1,2-Dichloroethane	12.39	62	1317499	547.52	ng	#	97
25) 1,2-Dibromoethane	19.27	107	2335297	538.78	ng		99
27) Benzene	12.47	78	3240451	551.21	ng		97

(#) = qualifier out of range (m) = manual integration
CMA0500.D TO14S.M Mon Aug 05 16:55:57 2002 Page 1

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0500.D Vial: 6
Acq On : 5 Aug 2002 16:23 Operator: BDH
Sample : 500ng/20uL/100ppb INITIAL CALIB. Inst : MARILYN
Misc : Pi/Pf=1 MA135ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 5 16:55 2002 Quant Results File: TO14S.RES

Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Aug 05 16:28:28 2002
Response via : Initial Calibration
DataAcq Meth : TO14S

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
28)	Trichloroethene	13.77	130	1851838	533.85 ng		93
29)	1,2-Dichloropropane	14.14	63	1366939	544.75 ng		94
30)	Bromodichloromethane	14.67	83	3103955	533.44 ng		99
31)	cis-1,3-Dichloropropene	15.88	75	2067203	535.72 ng		94
33)	Toluene	16.67	92	2088662	528.84 ng	#	98
34)	trans-1,3-Dichloropropene	17.03	75	1761709	538.56 ng		98
35)	1,1,2-Trichloroethane	17.43	97	1349851	527.50 ng		96
37)	Tetrachloroethene	18.27	164	1775649	554.06 ng		92
38)	Dibromochloromethane	18.75	127	2276755	537.89 ng	#	96
39)	Chlorobenzene	20.31	112	2870342	546.83 ng		92
40)	Ethylbenzene	20.41	106	1132883	552.37 ng		98
41)	m,p-Xylene	20.60	106	2748950	1055.13 ng		96
42)	o-Xylene	21.75	106	1314164	529.93 ng		97
43)	Styrene	21.81	104	2236856	525.57 ng		94
44)	Bromoform	22.74	173	2428299	526.88 ng		99
45)	1,1,2,2-Tetrachloroethane	23.08	83	2065443	542.87 ng		100
47)	1,4-Dichloro-2-butene	22.73	75	496033	574.65 ng		89
48)	4-Ethyltoluene	24.02	105	3440375	550.30 ng	#	88
49)	1,3,5-Trimethylbenzene	24.13	105	2570364	537.36 ng		89
50)	2-Chlorotoluene	24.22	91	3264242	522.41 ng		96
51)	1,2,4-Trimethylbenzene	25.10	105	2575088	524.51 ng		98
52)	1,3-Dichlorobenzene	26.03	146	2151983	510.40 ng	#	93
53)	1,4-Dichlorobenzene	26.25	146	2237107	509.53 ng	#	93
54)	1,2-Dichlorobenzene	27.01	146	1971106	501.72 ng	#	94
55)	1,2,4-Trichlorobenzene	30.15	180	1380225	505.57 ng		99
56)	Napthalene	30.68	128	1822625	531.63 ng	#	92
57)	Hexachlorobutadiene	30.38	225	1087414	468.52 ng		99

(#) = qualifier out of range (m) = manual integration
CMA0500.D TO14S.M Mon Aug 05 16:56:00 2002 Page 2

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA1000.D Vial: 7
Acq On : 5 Aug 2002 17:00 Operator: BDH
Sample : 1000ng/40uL/200ppb INITIAL CALIB. Inst : MARILYN
Misc : Pi/Pf=1 MA135ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 6 9:16 2002 Quant Results File: TO14S.RES

Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Aug 05 17:17:06 2002
Response via : Initial Calibration
DataAcq Meth : TO14S
IS QA File : D:\HPCHEM\1\DATA02\M0805A\CMA0250.D (5 Aug 2002 14:33)

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) Bromochloromethane IS#1	11.06	128	491790	250.00	ng	0.02 95.72%
26) 1,4-Difluorobenzene IS#2	12.97	114	2150910	250.00	ng	0.00 100.74%
36) Chlorobenzene-d5 IS#3	20.20	117	1472598	250.00	ng	0.00 101.74%

System Monitoring Compounds

23) 1,2-Dichloroethane d4 SURR	12.18	65	568485	266.35	ng	0.00
Spiked Amount 250.000 Range 61 - 140 Recovery = 106.54%						
32) Toluene-d8 SURR#2	16.48	98	1592827	247.51	ng	0.00
Spiked Amount 250.000 Range 90 - 109 Recovery = 99.00%						
46) 4-Bromofluorobenzene SURR#	23.32	95	1122363	239.73	ng	0.00
Spiked Amount 250.000 Range 87 - 112 Recovery = 95.89%						

Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.65	85	1529847m	777.86	ng	# 100
3) Dichlorotetrafluoroethane	3.82	135	2451209m	1475.72	ng	# 42
4) Chloromethane	4.10	50	1650052	1290.77	ng	90
5) Vinyl chloride	4.38	62	1372772	1113.24	ng	100
6) Bromomethane	5.13	94	1334309	969.53	ng	# 99
7) Chloroethane	5.25	64	898900	1080.29	ng	97
8) Trichlorofluoromethane	5.72	101	5201310	1090.30	ng	100
9) 1,1,2-Trichlorotrifluoroet	6.51	151	4687595	1167.25	ng	80
10) 1,1-Dichloroethene	6.87	96	2359257	1154.82	ng	89
12) Methylene chloride	7.77	49	2767336	1097.95	ng	96
13) Carbon disulfide	7.88	76	6337905	1131.69	ng	100
14) methyl-Tert-Butyl Ether	8.06	73	4664588	1187.78	ng	99
15) trans-1,2-Dichloroethene	8.34	96	2729249	1153.90	ng	92
16) n-Hexane	8.45	57	2599018	1142.22	ng	# 1
17) 1,1-Dichloroethane	9.17	63	4433504	1166.00	ng	99
18) cis-1,2-Dichloroethene	10.38	61	3591268	1177.28	ng	92
19) Chloroform	10.70	83	5288744	1150.69	ng	98
20) Isooctane	11.65	57	8647232	1167.04	ng	94
21) 1,1,1-Trichloroethane	11.54	97	4850674	1156.75	ng	89
22) Carbon tetrachloride	12.10	117	4930490	1144.12	ng	99
24) 1,2-Dichloroethane	12.38	62	2649465	1151.64	ng	# 97
25) 1,2-Dibromoethane	19.26	107	4571494	1106.48	ng	100
27) Benzene	12.46	78	6267988	1075.70	ng	98

(#) = qualifier out of range (m) = manual integration
CMA1000.D TO14S.M Tue Aug 06 09:17:11 2002 Page 1

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA1000.D Vial: 7
Acq On : 5 Aug 2002 17:00 Operator: BDH
Sample : 1000ng/40uL/200ppb INITIAL CALIB. Inst : MARILYN
Misc : Pi/Pf=1 MA135ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 6 9:16 2002 Quant Results File: TO14S.RES

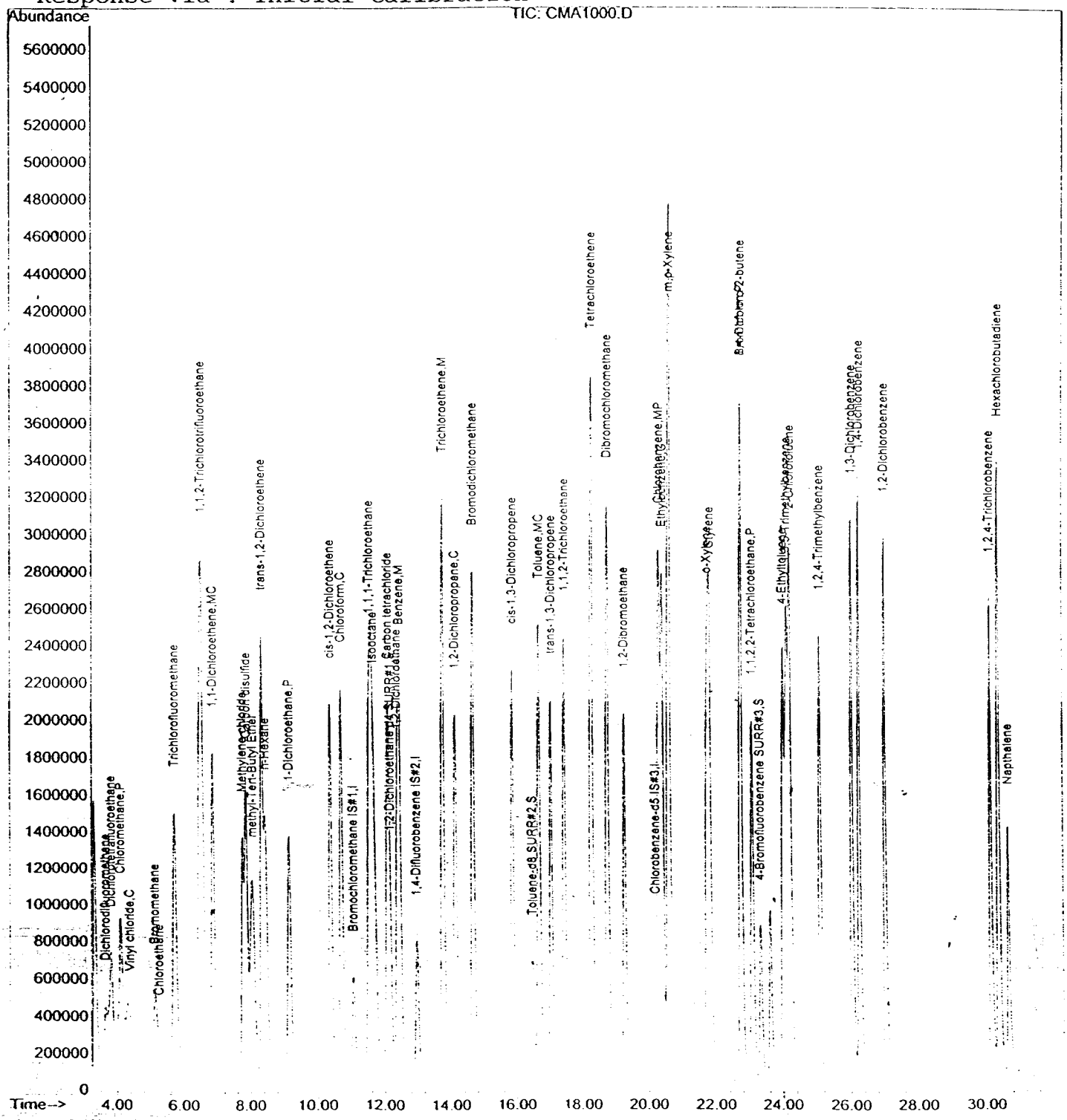
Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Aug 05 17:17:06 2002
Response via : Initial Calibration
DataAcq Meth : TO14S

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
28) Trichloroethene	13.76	130	3620312	1067.38 ng		93
29) 1,2-Dichloropropane	14.13	63	2700131	1090.62 ng		94
30) Bromodichloromethane	14.66	83	6101132	1069.45 ng		99
31) cis-1,3-Dichloropropene	15.87	75	4124266	1088.14 ng		94
33) Toluene	16.68	92	4049136	1055.30 ng		98
34) trans-1,3-Dichloropropene	17.04	75	3482794	1083.20 ng		97
35) 1,1,2-Trichloroethane	17.44	97	2659986	1059.68 ng		96
37) Tetrachloroethene	18.26	164	3418390	1091.11 ng		92
38) Dibromochloromethane	18.74	127	4467087	1075.81 ng	#	96
39) Chlorobenzene	20.31	112	5500033	1077.18 ng		92
40) Ethylbenzene	20.41	106	2169284	1086.42 ng		97
41) m,p-Xylene	20.61	106	5357491	2147.85 ng		95
42) o-Xylene	21.74	106	2557684	1079.37 ng		95
43) Styrene	21.82	104	4347537	1073.27 ng		94
44) Bromoform	22.73	173	4547630	1014.30 ng		100
45) 1,1,2,2-Tetrachloroethane	23.08	83	3764344	1001.70 ng		100
47) 1,4-Dichloro-2-butene	22.73	75	930592	1076.63 ng		89
48) 4-Ethyltoluene	24.01	105	6255696	1049.28 ng		94
49) 1,3,5-Trimethylbenzene	24.12	105	4713467	1024.26 ng	#	81
50) 2-Chlorotoluene	24.23	91	6412753	1080.33 ng		97
51) 1,2,4-Trimethylbenzene	25.09	105	5011320	1086.29 ng		98
52) 1,3-Dichlorobenzene	26.04	146	4149999	1055.54 ng	#	93
53) 1,4-Dichlorobenzene	26.26	146	4294318	1050.66 ng	#	93
54) 1,2-Dichlorobenzene	27.02	146	3807675	1044.81 ng	#	93
55) 1,2,4-Trichlorobenzene	30.14	180	2617197m	1099.47 ng		98
56) Napthalene	30.68	128	3829648	1198.41 ng	#	92
57) Hexachlorobutadiene	30.39	225	2137949	1213.19 ng		99

(#) = qualifier out of range (m) = manual integration
CMA1000.D TO14S.M Tue Aug 06 09:17:12 2002 Page 2

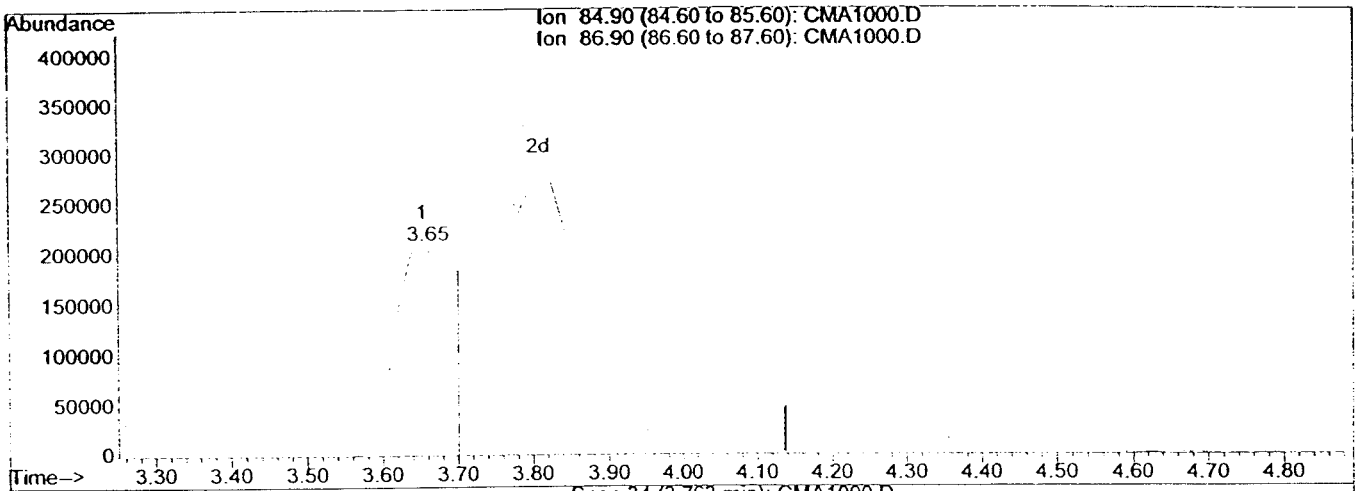
Data File : D:\HPCHEM\1\DATA02\M0805A\CMA1000.D Vial: 7
Acq On : 5 Aug 2002 17:00 Operator: BDH
Sample : 1000ng/40uL/200ppb INITIAL CALIB. Inst : MARILYN
Misc : Pi/Pf=1 MA135ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 6 9:16 2002 Quant Results File: TO14S.RES

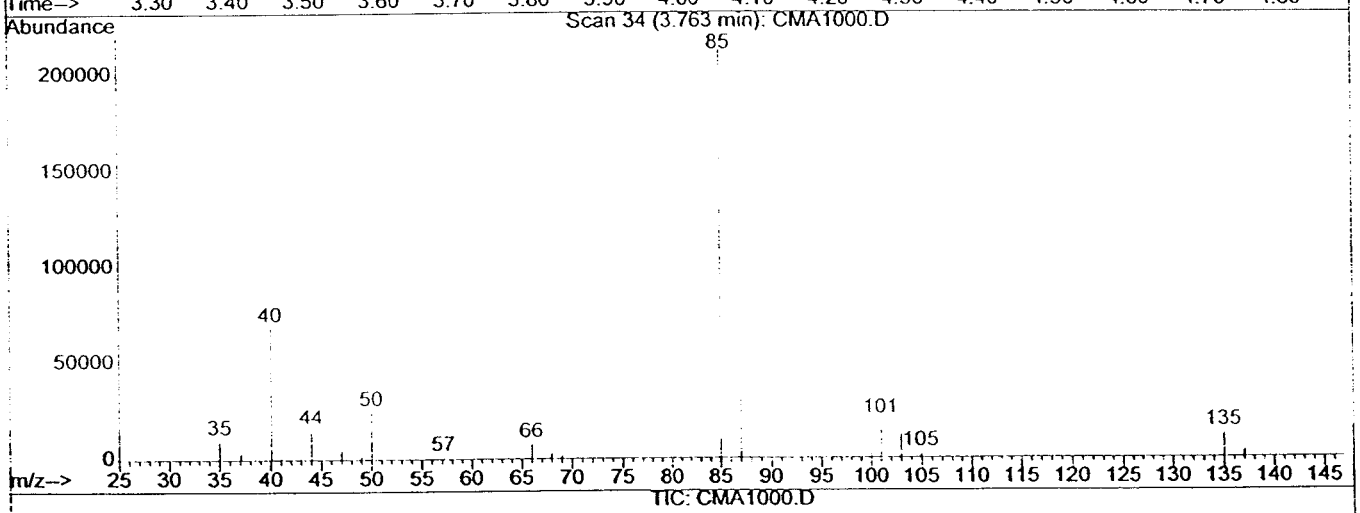
Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Tue Aug 06 09:02:44 2002
Response via : Initial Calibration



Data File : D:\HPCHEM\1\DATA02\M0805A\CMA1000.D Vial: 7
Acq On : 5 Aug 2002 17:00 Operator: BDH
Sample : 1000ng/40uL/200ppb INITIAL CALIB. Inst : MARILYN
Misc : Pi/Pf=1 MA135ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 5 17:32 2002 Quant Results File: temp.re

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Aug 05 17:17:06 2002
Response via : Multiple Level Calibration





(2) Dichlorodifluoromethane

3.65min 592.64ng

response 1165578

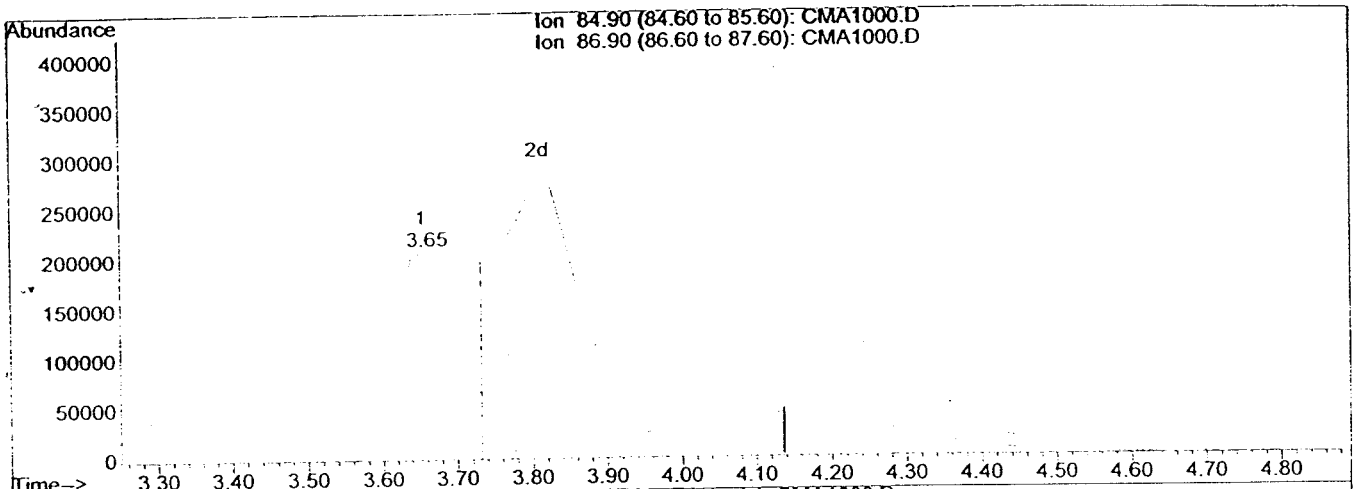
Ion	Exp%	Act%
84.90	100	100
86.90	33.50	33.31
0.00	0.00	0.00
0.00	0.00	0.00

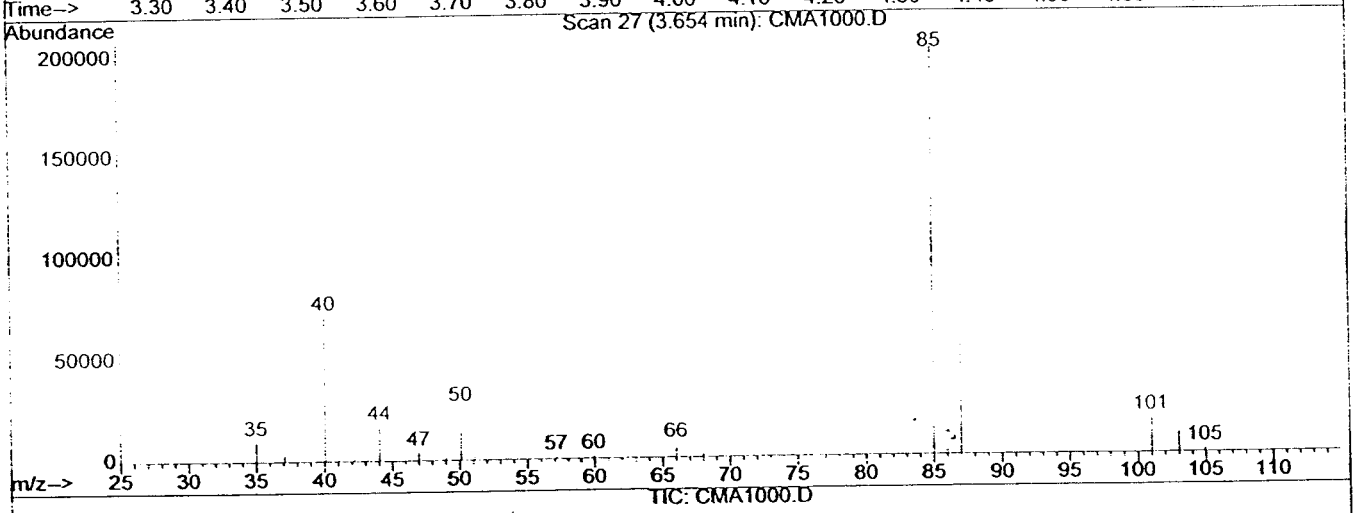
before (tailing)

CMA1000.D TO14S.M Tue Aug 06 08:27:22 2002

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA1000.D Vial: 7
Acq On : 5 Aug 2002 17:00 Operator: BDH
Sample : 1000ng/40uL/200ppb INITIAL CALIB. Inst : MARILYN
Misc : Pi/Pf=1 MA135ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 6 9:16 2002 Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Tue Aug 06 09:02:44 2002
Response via : Multiple Level Calibration





(2) Dichlorodifluoromethane

3.65min 777.86ng m

response 1529847

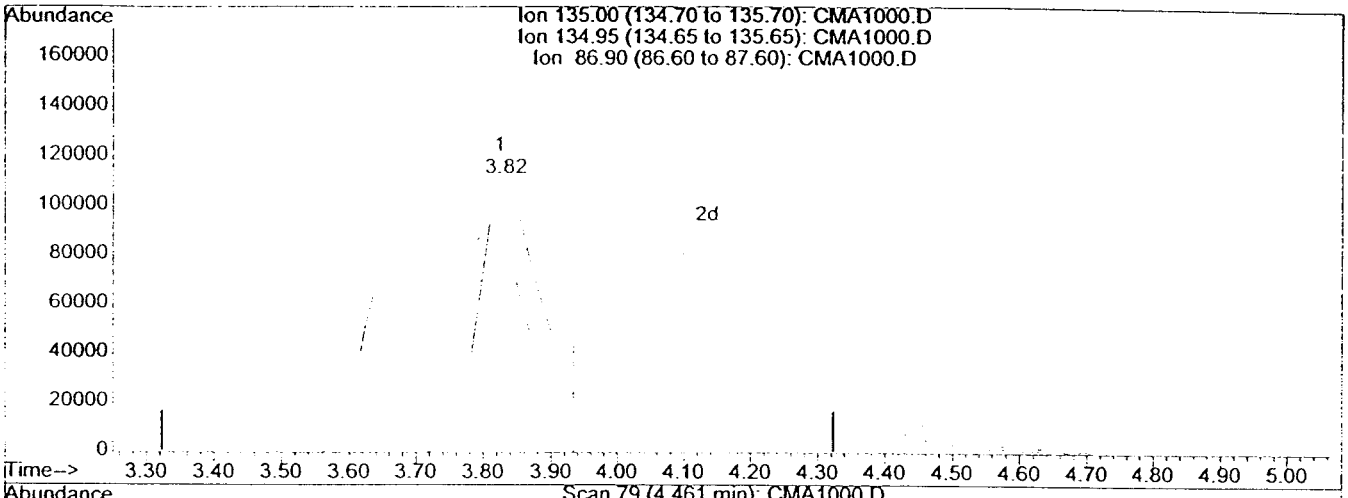
Ion	Exp%	Act%
84.90	100	100
86.90	33.50	25.38#
0.00	0.00	0.00
0.00	0.00	0.00

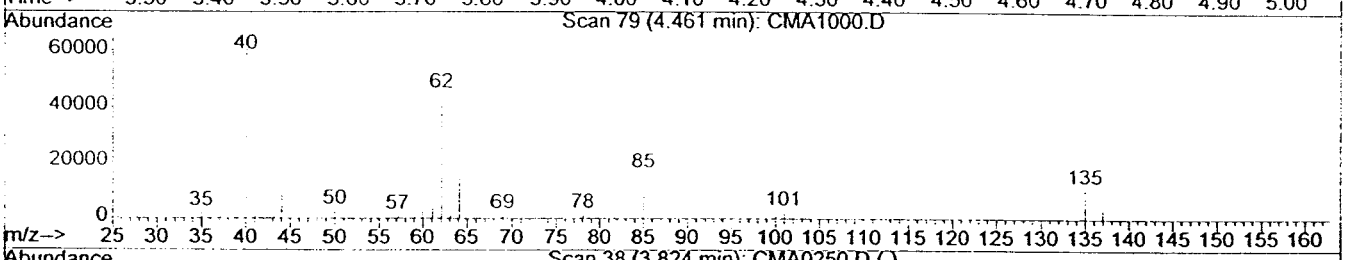
8-6-02

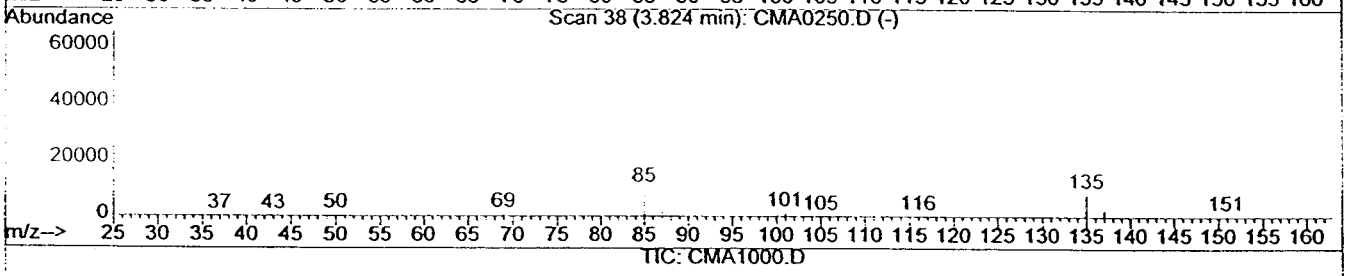
CMA1000.D TO14S.M Tue Aug 06 09:17:01 2002

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA1000.D Vial: 7
Acq On : 5 Aug 2002 17:00 Operator: BDH
Sample : 1000ng/40uL/200ppb INITIAL CALIB. Inst : MARILYN
Misc : Pi/Pf=1 MA135ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 6 8:27 2002 Quant Results File: temp.re

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Aug 05 17:17:06 2002
Response via : Multiple Level Calibration







TIC: CMA1000.D

(3) Dichlorotetrafluoroethane

3.82min 439.79ng

response 730494

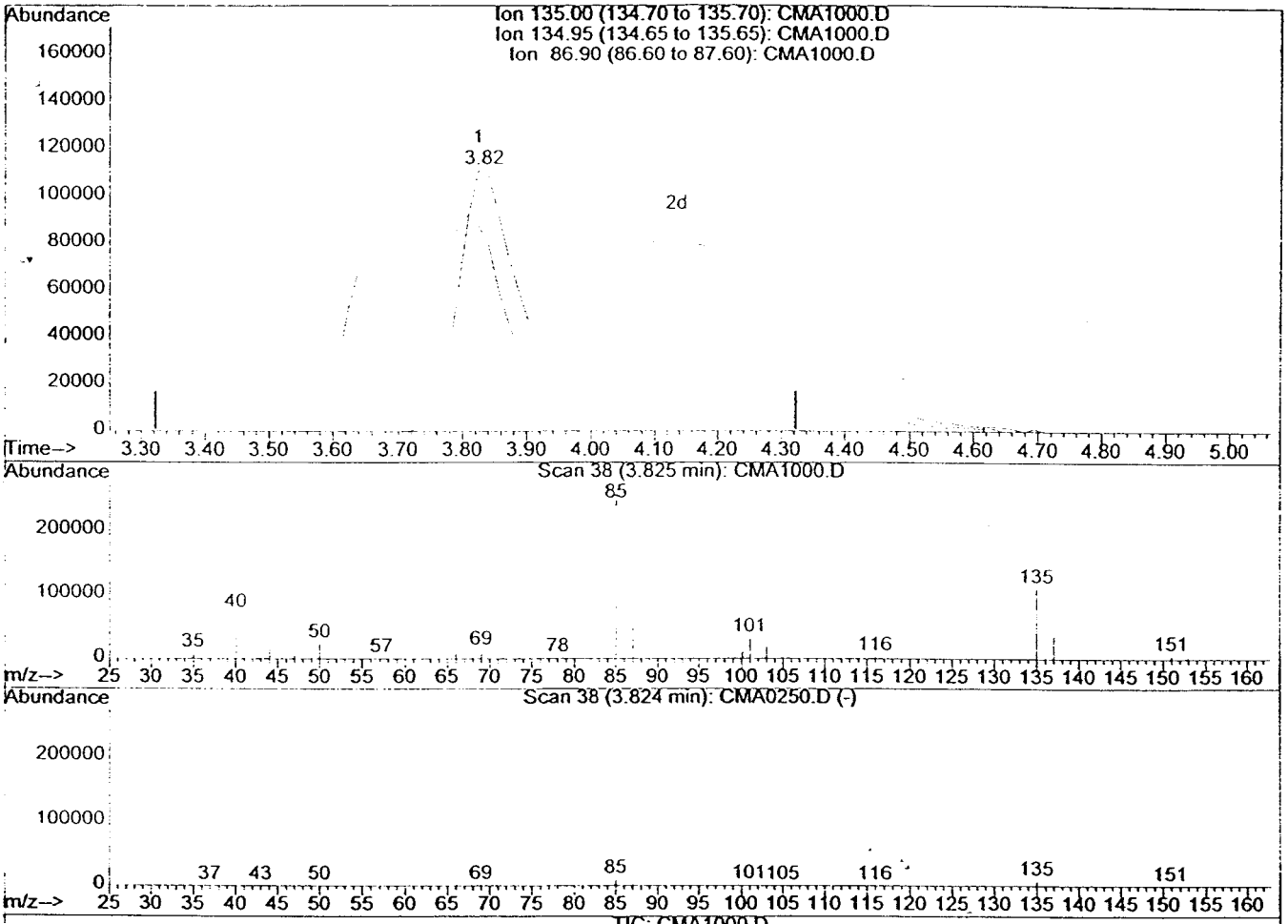
Ion	Exp%	Act%
135.00	100	100
134.95	56.30	100.00#
86.90	32.70	63.08#
0.00	0.00	0.00

Before (failing)

CMA1000.D TO14S.M Tue Aug 06 08:27:52 2002

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA1000.D Vial: 7
Acq On : 5 Aug 2002 17:00 Operator: BDH
Sample : 1000ng/40uL/200ppb INITIAL CALIB. Inst : MARILYN
Misc : Pi/Pf=1 MA135ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 6 8:27 2002 Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Aug 05 17:17:06 2002
Response via : Multiple Level Calibration



(3) Dichlorotetrafluoroethane

3.82min 1475.72ng m

response 2451209

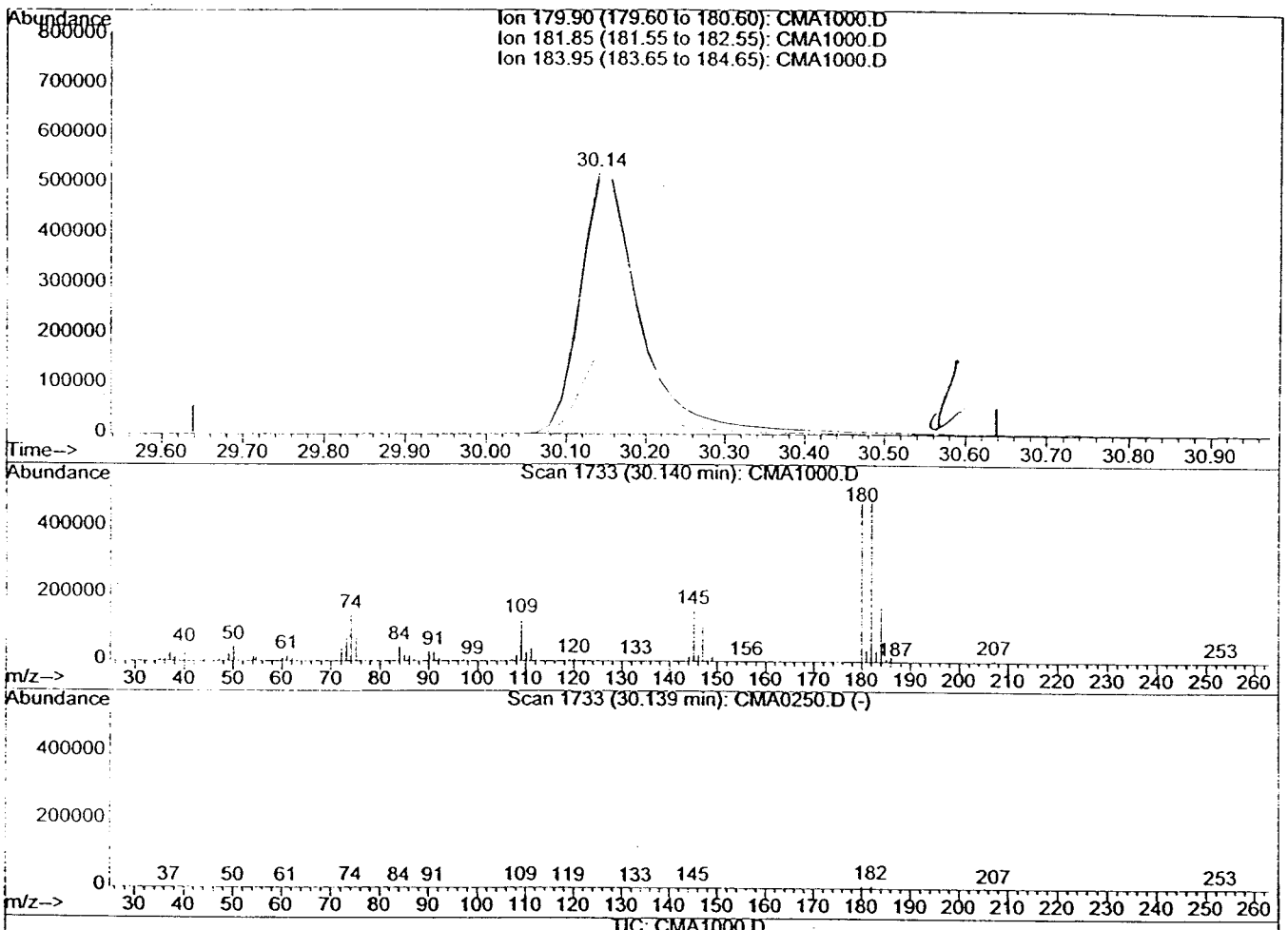
Ion	Exp%	Act%
135.00	100	100
134.95	56.30	29.80#
86.90	32.70	18.80#
0.00	0.00	0.00

after
BDH
8/6/02

CMA1000.D TO14S.M Tue Aug 06 08:28:00 2002

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA1000.D Vial: 7
Acq On : 5 Aug 2002 17:00 Operator: BDH
Sample : 1000ng/40uL/200ppb INITIAL CALIB. Inst : MARILYN
Misc : Pi/Pf=1 MA135ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 6 8:27 2002 Quant Results File: temp.re

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Tue Aug 06 08:35:03 2002
Response via : Multiple Level Calibration



(55) 1,2,4-Trichlorobenzene

30.14min 1179.19ng

response 2806950

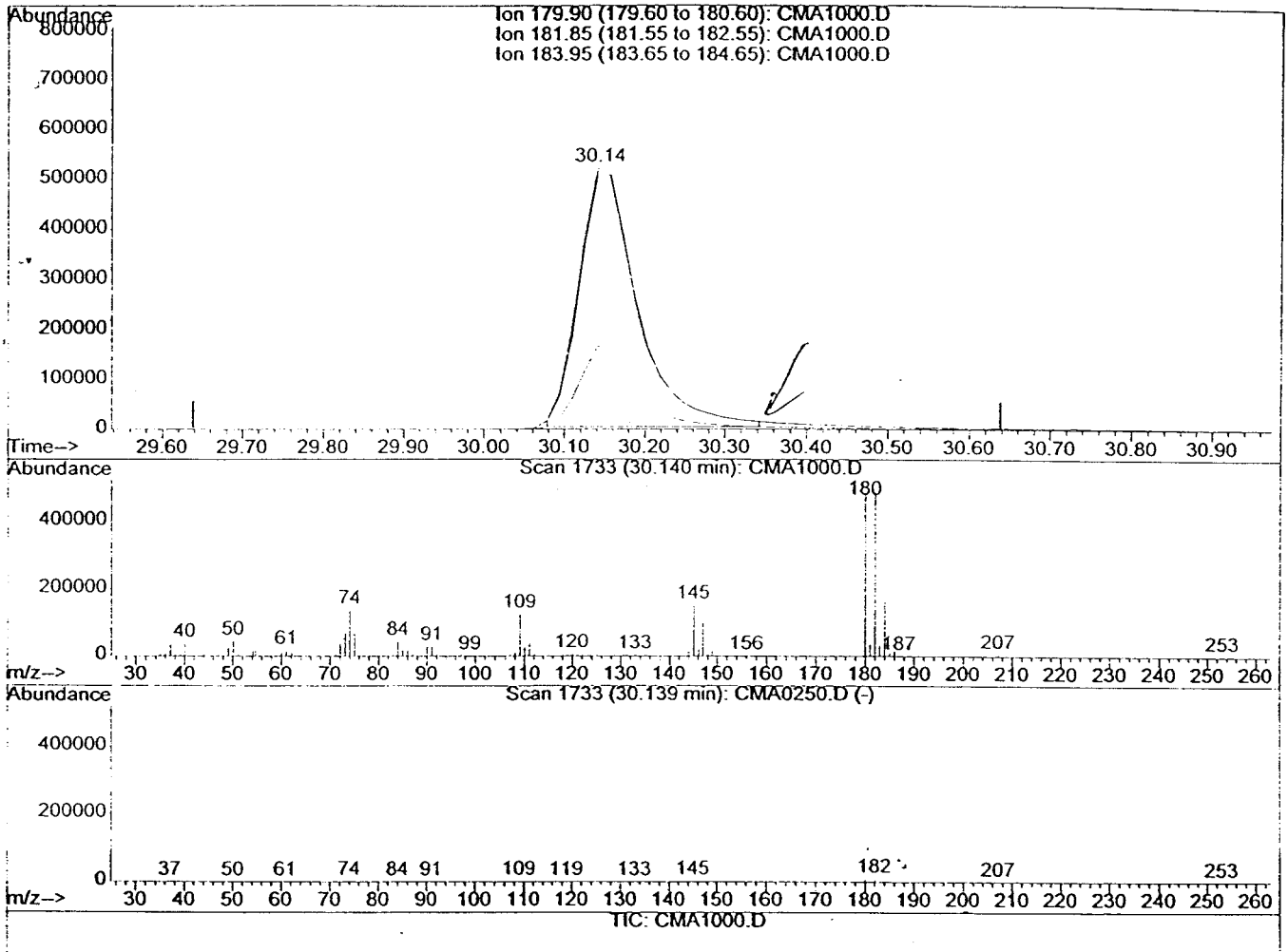
Ion	Exp%	Act%
179.90	100	100
181.85	96.80	98.83
183.95	30.50	31.80
0.00	0.00	0.00

before (tailing)

CMA1000.D TO14S.M Tue Aug 06 08:56:04 2002

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA1000.D Vial: 7
Acq On : 5 Aug 2002 17:00 Operator: BDH
Sample : 1000ng/40uL/200ppb INITIAL CALIB. Inst : MARILYN
Misc : Pi/Pf=1 MA135ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 6 8:56 2002 Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Tue Aug 06 08:35:03 2002
Response via : Multiple Level Calibration



(55) 1,2,4-Trichlorobenzene

30.14min 1099.47ng m

response 2617197

Ion	Exp%	Act%
179.90	100	100
181.85	96.80	105.99
183.95	30.50	34.10
0.00	0.00	0.00

after
BA
8/6/02

CMA1000.D TO14S.M Tue Aug 06 08:56:38 2002

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA1000.D Vial: 7
Acq On : 5 Aug 2002 17:00 Operator: BDH
Sample : 1000ng/40uL/200ppb INITIAL CALIB. Inst : MARILYN
Misc : Pi/Pf=1 MA135ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 5 17:32 2002 Quant Results File: TO14S.RES

Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Aug 05 17:17:06 2002
Response via : Initial Calibration
DataAcq Meth : TO14S
IS QA File : D:\HPCHEM\1\DATA02\M0805A\CMA0250.D (5 Aug 2002 14:33)

original

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) Bromochloromethane IS#1	11.06	128	491790	250.00 ng	0.02 95.72%
26) 1,4-Difluorobenzene IS#2	12.97	114	2150910	250.00 ng	0.00 100.74%
36) Chlorobenzene-d5 IS#3	20.20	117	1472598	250.00 ng	0.00 101.74%

System Monitoring Compounds

23) 1,2-Dichloroethane d4 SURR	12.18	65	568485	266.35 ng	0.00
Spiked Amount 250.000 Range 61 - 140 Recovery = 106.54%					
32) Toluene-d8 SURR#2	16.48	98	1592827	247.51 ng	0.00
Spiked Amount 250.000 Range 90 - 109 Recovery = 99.00%					
46) 4-Bromofluorobenzene SURR#	23.32	95	1122363	239.73 ng	0.00
Spiked Amount 250.000 Range 87 - 112 Recovery = 95.89%					

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.65	85	1165578	592.64 ng		100
3) Dichlorotetrafluoroethane	3.82	135	730494	439.79 ng	#	42
4) Chloromethane	4.10	50	1650052	1290.77 ng		90
5) Vinyl chloride	4.38	62	1372772	1113.24 ng		100
6) Bromomethane	5.13	94	1334309	969.53 ng	#	99
7) Chloroethane	5.25	64	898900	1080.29 ng		97
8) Trichlorofluoromethane	5.72	101	5201310	1090.30 ng		100
9) 1,1,2-Trichlorotrifluoroet	6.51	151	4687595	1167.25 ng		80
10) 1,1-Dichloroethene	6.87	96	2359257	1154.82 ng		89
12) Methylene chloride	7.77	49	2767336	1097.95 ng		96
13) Carbon disulfide	7.88	76	6337905	1131.69 ng		100
14) methyl-Tert-Butyl Ether	8.06	73	4664588	1187.78 ng		99
15) trans-1,2-Dichloroethene	8.34	96	2729249	1153.90 ng		92
16) n-Hexane	8.45	57	2599018	1142.22 ng	#	1
17) 1,1-Dichloroethane	9.17	63	4433504	1166.00 ng		99
18) cis-1,2-Dichloroethene	10.38	61	3591268	1177.28 ng		92
19) Chloroform	10.70	83	5288744	1150.69 ng		98
20) Isooctane	11.65	57	8647232	1167.04 ng		94
21) 1,1,1-Trichloroethane	11.54	97	4850674	1156.75 ng		89
22) Carbon tetrachloride	12.10	117	4930490	1144.12 ng		99
24) 1,2-Dichloroethane	12.38	62	2649465	1151.64 ng	#	97
25) 1,2-Dibromoethane	19.26	107	4571494	1106.48 ng		100
27) Benzene	12.46	78	6267988	1075.70 ng		98

(#) = qualifier out of range (m) = manual integration
CMA1000.D TO14S.M Mon Aug 05 17:32:51 2002 Page 1

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA1000.D Vial: 7
Acq On : 5 Aug 2002 17:00 Operator: BDH
Sample : 1000ng/40uL/200ppb INITIAL CALIB. Inst : MARILYN
Misc : Pi/Pf=1 MA135ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 5 17:32 2002 Quant Results File: TO14S.RES

Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Aug 05 17:17:06 2002
Response via : Initial Calibration
DataAcq Meth : TO14S

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
28) Trichloroethene	13.76	130	3620312	1067.38 ng		93
29) 1,2-Dichloropropane	14.13	63	2700131	1090.62 ng		94
30) Bromodichloromethane	14.66	83	6101132	1069.45 ng		99
31) cis-1,3-Dichloropropene	15.87	75	4124266	1088.14 ng		94
33) Toluene	16.68	92	4049136	1055.30 ng		98
34) trans-1,3-Dichloropropene	17.04	75	3482794	1083.20 ng		97
35) 1,1,2-Trichloroethane	17.44	97	2659986	1059.68 ng		96
37) Tetrachloroethene	18.26	164	3418390	1091.11 ng		92
38) Dibromochloromethane	18.74	127	4467087	1075.81 ng	#	96
39) Chlorobenzene	20.31	112	5500033	1077.18 ng		92
40) Ethylbenzene	20.41	106	2169284	1086.42 ng		97
41) m,p-Xylene	20.61	106	5357491	2147.85 ng		95
42) o-Xylene	21.74	106	2557684	1079.37 ng		95
43) Styrene	21.82	104	4347537	1073.27 ng		94
44) Bromoform	22.73	173	4547630	1014.30 ng		100
45) 1,1,2,2-Tetrachloroethane	23.08	83	3764344	1001.70 ng		100
47) 1,4-Dichloro-2-butene	22.73	75	930592	1076.63 ng		89
48) 4-Ethyltoluene	24.01	105	6255696	1049.28 ng		94
49) 1,3,5-Trimethylbenzene	24.12	105	4713467	1024.26 ng	#	81
50) 2-Chlorotoluene	24.23	91	6412753	1080.33 ng		97
51) 1,2,4-Trimethylbenzene	25.09	105	5011320	1086.29 ng		98
52) 1,3-Dichlorobenzene	26.04	146	4149999	1055.54 ng	#	93
53) 1,4-Dichlorobenzene	26.26	146	4294318	1050.66 ng	#	93
54) 1,2-Dichlorobenzene	27.02	146	3807675	1044.81 ng	#	93
55) 1,2,4-Trichlorobenzene	30.14	180	2806950	1179.19 ng		98
56) Napthalene	30.68	128	3829648	1198.41 ng	#	92
57) Hexachlorobutadiene	30.39	225	2137949	1213.19 ng		99

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA1500.D Vial: 8
Acq On : 5 Aug 2002 17:38 Operator: BDH
Sample : 1500ng/60uL/300ppb INITIAL CALIB. Inst : MARILYN
Misc : Pi/Pf=1 MA135ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 6 9:22 2002 Quant Results File: TO14S.RES

Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Aug 05 17:17:06 2002
Response via : Initial Calibration
DataAcq Meth : TO14S
IS QA File : D:\HPCHEM\1\DATA02\M0805A\CMA0250.D (5 Aug 2002 14:33)

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar
1) Bromochloromethane IS#1	11.05	128	455796	250.00	ng	0.0 88.72
26) 1,4-Difluorobenzene IS#2	12.98	114	1931533	250.00	ng	0.0 90.47
36) Chlorobenzene-d5 IS#3	20.21	117	1292747	250.00	ng	0.0 89.31

System Monitoring Compounds

23) 1,2-Dichloroethane d4 SURR	12.17	65	516454	261.08	ng	0.0
Spiked Amount 250.000 Range 61 - 140 Recovery = 104.43%						
32) Toluene-d8 SURR#2	16.49	98	1412798	244.47	ng	0.0
Spiked Amount 250.000 Range 90 - 109 Recovery = 97.79%						
46) 4-Bromofluorobenzene SURR#	23.33	95	966532	235.16	ng	0.0
Spiked Amount 250.000 Range 87 - 112 Recovery = 94.06%						

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.76	85	2400458m	1316.91	ng	# 9
3) Dichlorotetrafluoroethane	4.19	135	3173504m	2061.45	ng	# 4
4) Chloromethane	4.10	50	2357536	1989.84	ng	# 9
5) Vinyl chloride	4.39	62	1895947	1658.92	ng	9
6) Bromomethane	5.12	94	1842761	1444.72	ng	# 9
7) Chloroethane	5.39	64	1170173	1517.36	ng	# 6
8) Trichlorofluoromethane	5.71	101	6807261	1539.63	ng	9
9) 1,1,2-Trichlorotrifluoroet	6.50	151	6498874	1746.06	ng	8
10) 1,1-Dichloroethene	6.86	96	3133386	1654.86	ng	8
12) Methylene chloride	7.76	49	3672897	1572.31	ng	9
13) Carbon disulfide	7.87	76	8573072	1651.68	ng	10
14) methyl-Tert-Butyl Ether	8.06	73	6422859	1764.66	ng	9
15) trans-1,2-Dichloroethene	8.34	96	3744323	1708.07	ng	9
16) n-Hexane	8.44	57	3627841	1720.28	ng	#
17) 1,1-Dichloroethane	9.16	63	6085584	1726.88	ng	9
18) cis-1,2-Dichloroethene	10.37	61	4871796	1723.18	ng	9
19) Chloroform	10.70	83	7233937	1698.20	ng	9
20) Isooctane	11.64	57	12131564	1766.59	ng	9
21) 1,1,1-Trichloroethane	11.53	97	6601753	1698.66	ng	8
22) Carbon tetrachloride	12.09	117	6809424	1704.91	ng	9
24) 1,2-Dichloroethane	12.37	62	3604880	1690.66	ng	# 9
25) 1,2-Dibromoethane	19.27	107	6196330	1618.19	ng	10
27) Benzene	12.45	78	8500240	1624.48	ng	9

(#) = qualifier out of range (m) = manual integration
CMA1500.D TO14S.M Tue Aug 06 09:23:10 2002 Page

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA1500.D Vial: 8
Acq On : 5 Aug 2002 17:38 Operator: BDH
Sample : 1500ng/60uL/300ppb INITIAL CALIB. Inst : MARILYN
Misc : Pi/Pf=1 MA135ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 6 9:22 2002 Quant Results File: TO14S.RES

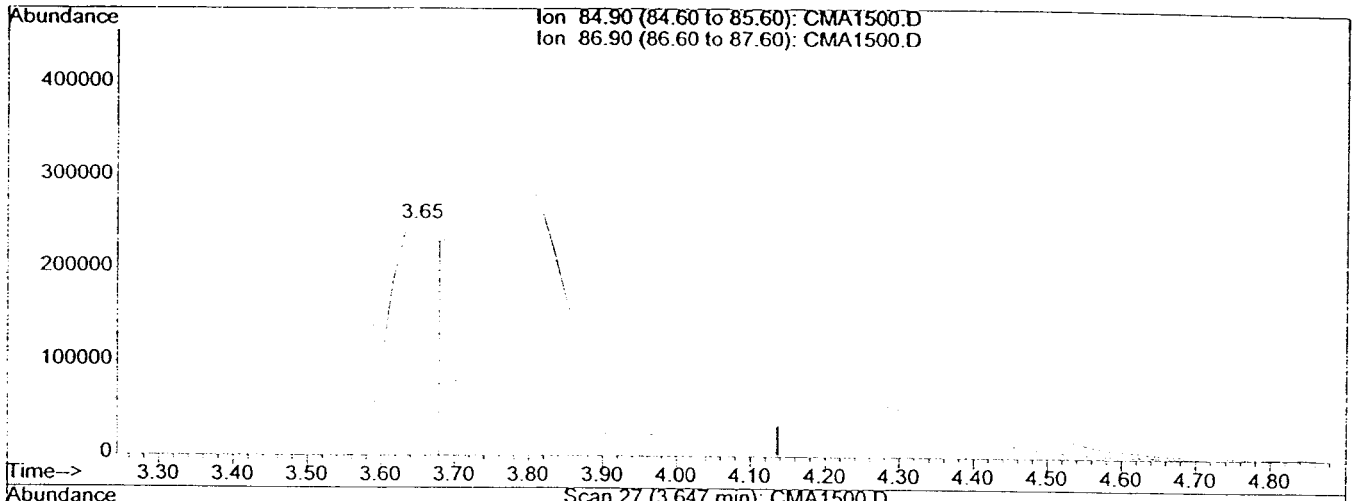
Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Aug 05 17:17:06 2002
Response via : Initial Calibration
DataAcq Meth : TO14S

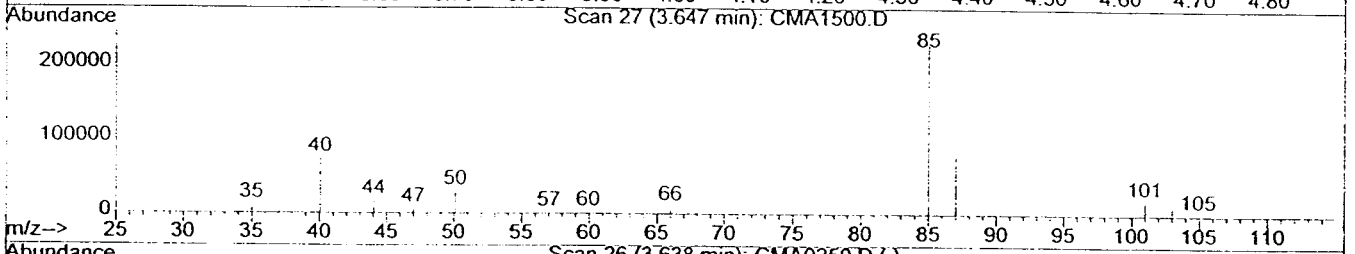
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
28)	Trichloroethene	13.75	130	4905602	1610.59 ng		93
29)	1,2-Dichloropropane	14.14	63	3667215	1649.48 ng		94
30)	Bromodichloromethane	14.67	83	8246077	1609.60 ng		98
31)	cis-1,3-Dichloropropene	15.87	75	5570045	1636.50 ng		94
33)	Toluene	16.67	92	5445867	1580.53 ng	#	97
34)	trans-1,3-Dichloropropene	17.03	75	4698934	1627.42 ng		97
35)	1,1,2-Trichloroethane	17.43	97	3608551	1600.84 ng		97
37)	Tetrachloroethene	18.27	164	4624498	1681.45 ng		92
38)	Dibromochloromethane	18.75	127	5988121	1642.75 ng	#	96
39)	Chlorobenzene	20.31	112	7257858	1619.21 ng		92
40)	Ethylbenzene	20.41	106	2899256	1654.01 ng		97
41)	m,p-Xylene	20.62	106	6951940	3174.82 ng		96
42)	o-Xylene	21.75	106	3357943	1614.24 ng		95
43)	Styrene	21.83	104	5650591	1589.02 ng		95
44)	Bromoform	22.74	173	5941755	1509.62 ng		99
45)	1,1,2,2-Tetrachloroethane	23.09	83	4774741	1447.34 ng		99
47)	1,4-Dichloro-2-butene	22.74	75	1218445	1605.77 ng		89
48)	4-Ethyltoluene	24.03	105	8029499	1534.17 ng		94
49)	1,3,5-Trimethylbenzene	24.13	105	6006527	1486.84 ng	#	81
50)	2-Chlorotoluene	24.23	91	8248298	1582.87 ng		97
51)	1,2,4-Trimethylbenzene	25.10	105	6415415	1584.12 ng		97
52)	1,3-Dichlorobenzene	26.04	146	5291893	1533.24 ng	#	93
53)	1,4-Dichlorobenzene	26.25	146	5437283	1515.37 ng	#	93
54)	1,2-Dichlorobenzene	27.03	146	4799427	1500.17 ng	#	93
55)	1,2,4-Trichlorobenzene	30.15	180	3567897	1707.38 ng		98
56)	Napthalene	30.68	128	5191275	1850.52 ng	#	92
57)	Hexachlorobutadiene	30.40	225	2684141	1735.03 ng		99

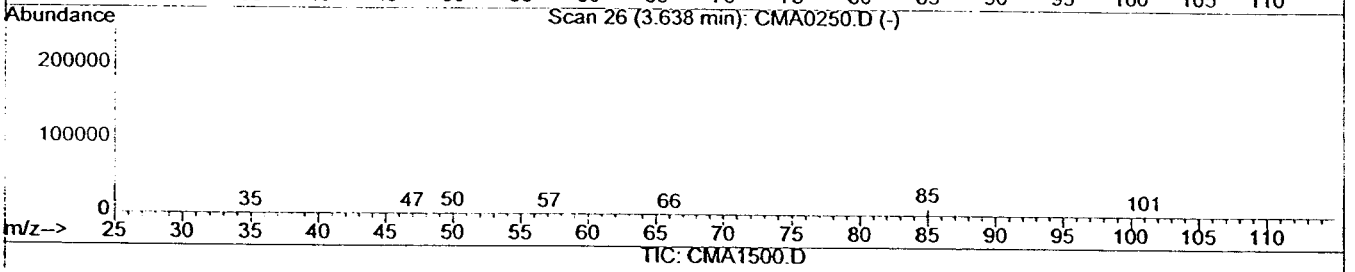
(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA1500.D Vial: 8
Acq On : 5 Aug 2002 17:38 Operator: BDH
Sample : 1500ng/60uL/300ppb INITIAL CALIB. Inst : MARILYN
Misc : Pi/Pf=1 MA135ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 5 18:11 2002 Quant Results File: temp.re

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Aug 05 17:17:06 2002
Response via : Multiple Level Calibration







(2) Dichlorodifluoromethane

3.65min 652.84ng

response 1189987

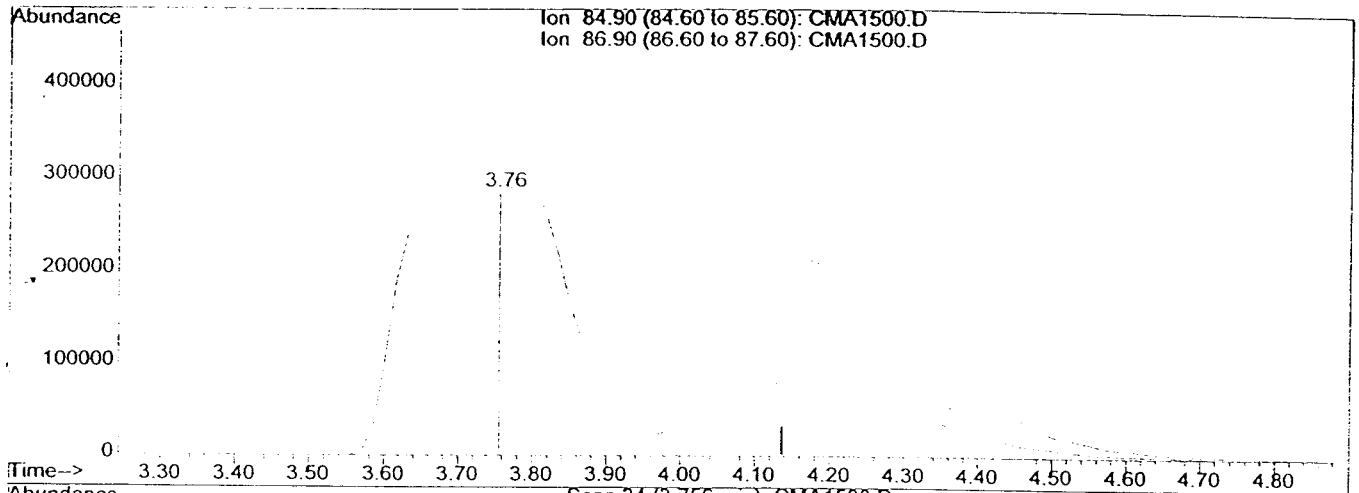
Ion	Exp%	Act%
84.90	100	100
86.90	33.50	33.13
0.00	0.00	0.00
0.00	0.00	0.00

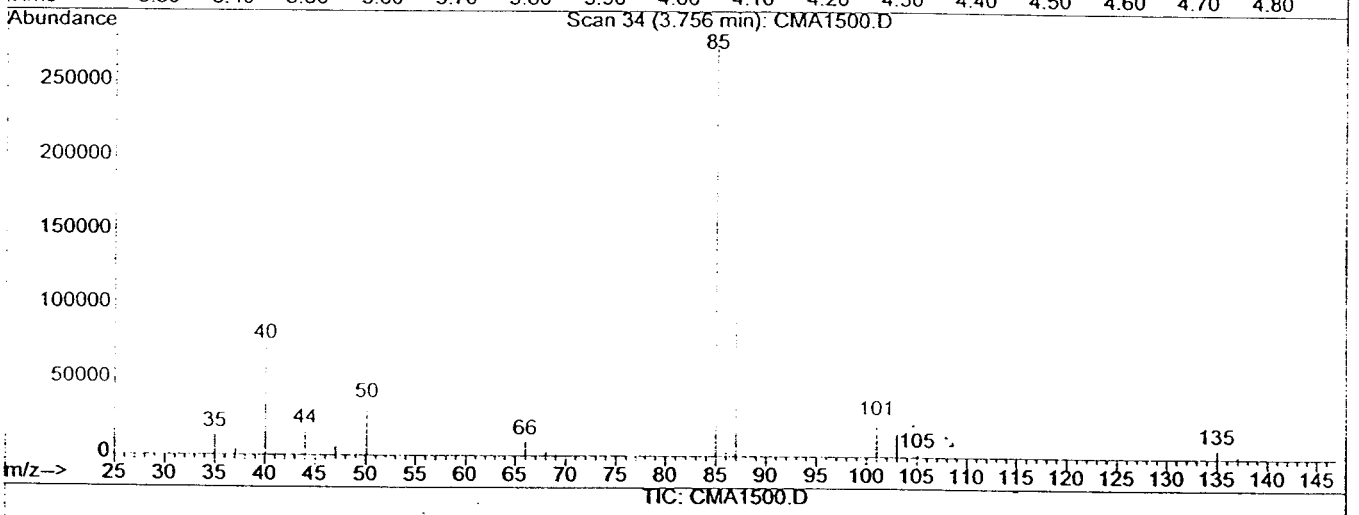
before
(tailing)

CMA1500.D TO14S.M Tue Aug 06 08:32:27 2002

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA1500.D Vial: 8
Acq On : 5 Aug 2002 17:38 Operator: BDH
Sample : 1500ng/60uL/300ppb INITIAL CALIB. Inst : MARILYN
Misc : Pi/Pf=1 MA135ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 6 9:22 2002 Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Tue Aug 06 09:21:42 2002
Response via : Multiple Level Calibration





(2) Dichlorodifluoromethane

3.76min 1316.91ng m

response 2400458

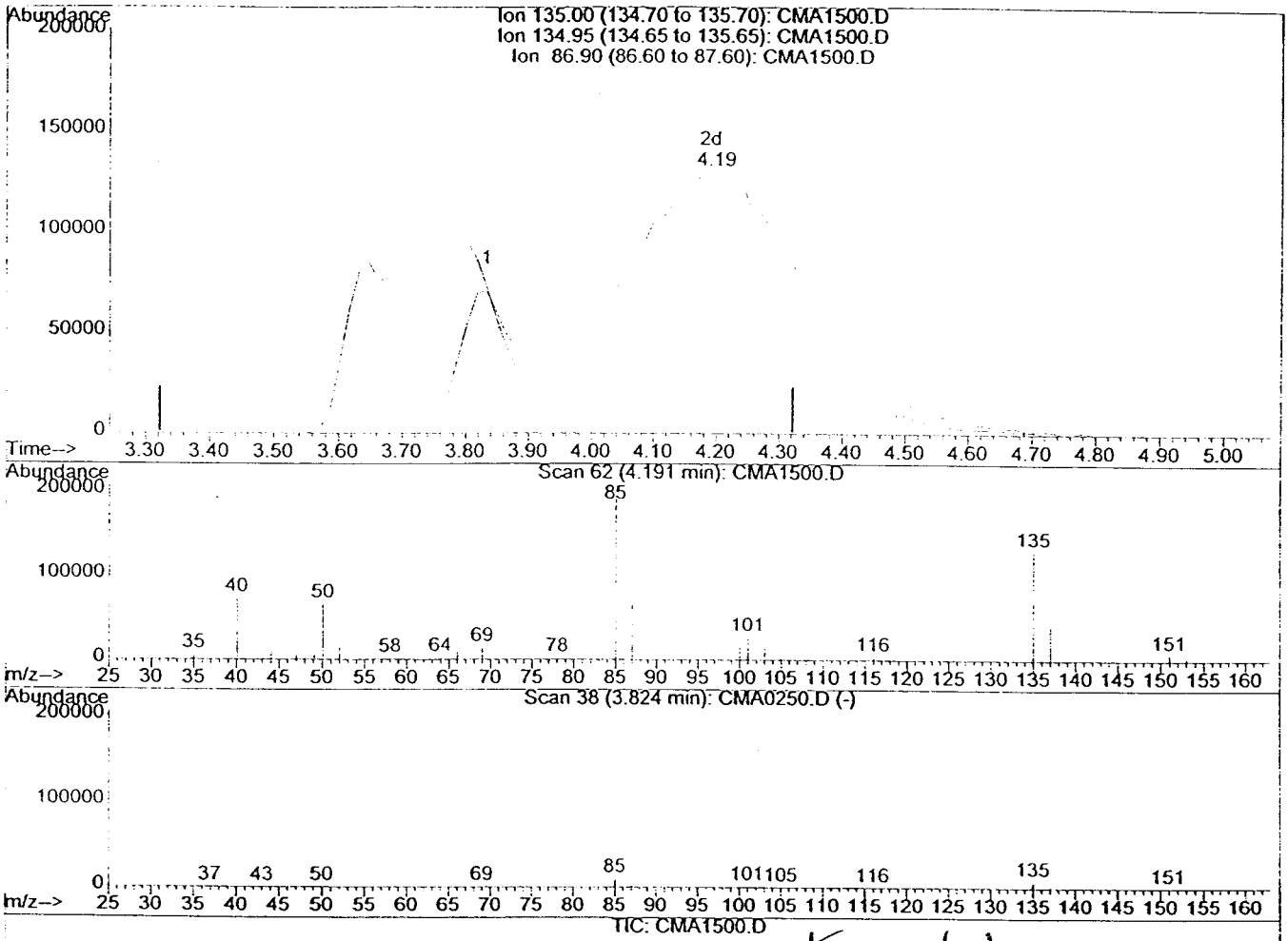
Ion	Exp%	Act%
84.90	100	100
86.90	33.50	16.43#
0.00	0.00	0.00
0.00	0.00	0.00

8-6-02

CMA1500.D TO14S.M Tue Aug 06 09:23:00 2002

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA1500.D Vial: 8
Acq On : 5 Aug 2002 17:38 Operator: BDH
Sample : 1500ng/60uL/300ppb INITIAL CALIB. Inst : MARILYN
Misc : Pi/Pf=1 MA135ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 6 8:33 2002 Quant Results File: temp.re

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Aug 05 17:17:06 2002
Response via : Multiple Level Calibration



(3) Dichlorotetrafluoroethane

4.19min 2061.45ng m

response 3173504

Ion	Exp%	Act%
135.00	100	100
134.95	56.30	14.99#
86.90	32.70	0.00#
0.00	0.00	0.00

~~before~~ after BDH 8/6/02 (tailing)

CMA1500.D TO14S.M Tue Aug 06 08:33:41 2002

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA1500.D
Acq On : 5 Aug 2002 17:38
Sample : 1500ng/60uL/300ppb INITIAL CALIB.
Misc : Pi/Pf=1 MA135ABK
MS Integration Params: rteint.p
Quant Time: Aug 5 18:11 2002

Vial: 8
Operator: BDH
Inst : MARILYN
Multiplr: 1.00

Quant Results File: TO14S.RES

Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Aug 05 17:17:06 2002
Response via : Initial Calibration
DataAcq Meth : TO14S
IS QA File : D:\HPCHEM\1\DATA02\M0805A\CMA0250.D (5 Aug 2002 14:33)

orig.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) Bromochloromethane IS#1	11.05	128	455796	250.00	ng	0.00 88.72%
26) 1,4-Difluorobenzene IS#2	12.98	114	1931533	250.00	ng	0.00 90.47%
36) Chlorobenzene-d5 IS#3	20.21	117	1292747	250.00	ng	0.00 89.31%

System Monitoring Compounds

23) 1,2-Dichloroethane d4 SURR	12.17	65	516454	261.08	ng	0.00
Spiked Amount 250.000 Range 61 - 140 Recovery = 104.43%						
32) Toluene-d8 SURR#2	16.49	98	1412798	244.47	ng	0.00
Spiked Amount 250.000 Range 90 - 109 Recovery = 97.79%						
46) 4-Bromofluorobenzene SURR#	23.33	95	966532	235.16	ng	0.00
Spiked Amount 250.000 Range 87 - 112 Recovery = 94.06%						

Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.65	85	1189987	652.84	ng		99
3) Dichlorotetrafluoroethane	3.83	135	475855	309.11	ng	#	41
4) Chloromethane	4.10	50	2357536	1989.84	ng	#	90
5) Vinyl chloride	4.39	62	1895947	1658.92	ng		99
6) Bromomethane	5.12	94	1842761	1444.72	ng	#	99
7) Chloroethane	5.39	64	1170173	1517.36	ng	#	64
8) Trichlorofluoromethane	5.71	101	6807261	1539.63	ng		99
9) 1,1,2-Trichlorotrifluoroet	6.50	151	6498874	1746.06	ng		80
10) 1,1-Dichloroethene	6.86	96	3133386	1654.86	ng		88
12) Methylene chloride	7.76	49	3672897	1572.31	ng		95
13) Carbon disulfide	7.87	76	8573072	1651.68	ng		100
14) methyl-Tert-Butyl Ether	8.06	73	6422859	1764.66	ng		99
15) trans-1,2-Dichloroethene	8.34	96	3744323	1708.07	ng		92
16) n-Hexane	8.44	57	3627841	1720.28	ng	#	1
17) 1,1-Dichloroethane	9.16	63	6085584	1726.88	ng		99
18) cis-1,2-Dichloroethene	10.37	61	4871796	1723.18	ng		91
19) Chloroform	10.70	83	7233937	1698.20	ng		99
20) Isooctane	11.64	57	12131564	1766.59	ng		94
21) 1,1,1-Trichloroethane	11.53	97	6601753	1698.66	ng		89
22) Carbon tetrachloride	12.09	117	6809424	1704.91	ng		99
24) 1,2-Dichloroethane	12.37	62	3604880	1690.66	ng	#	97
25) 1,2-Dibromoethane	19.27	107	6196330	1618.19	ng		100
27) Benzene	12.45	78	8500240	1624.48	ng		98

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA1500.D Vial: 8
Acq On : 5 Aug 2002 17:38 Operator: BDH
Sample : 1500ng/60uL/300ppb INITIAL CALIB. Inst : MARILYN
Misc : Pi/Pf=1 MA135ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 5 18:11 2002 Quant Results File: TO14S.RES

Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Aug 05 17:17:06 2002
Response via : Initial Calibration
DataAcq Meth : TO14S

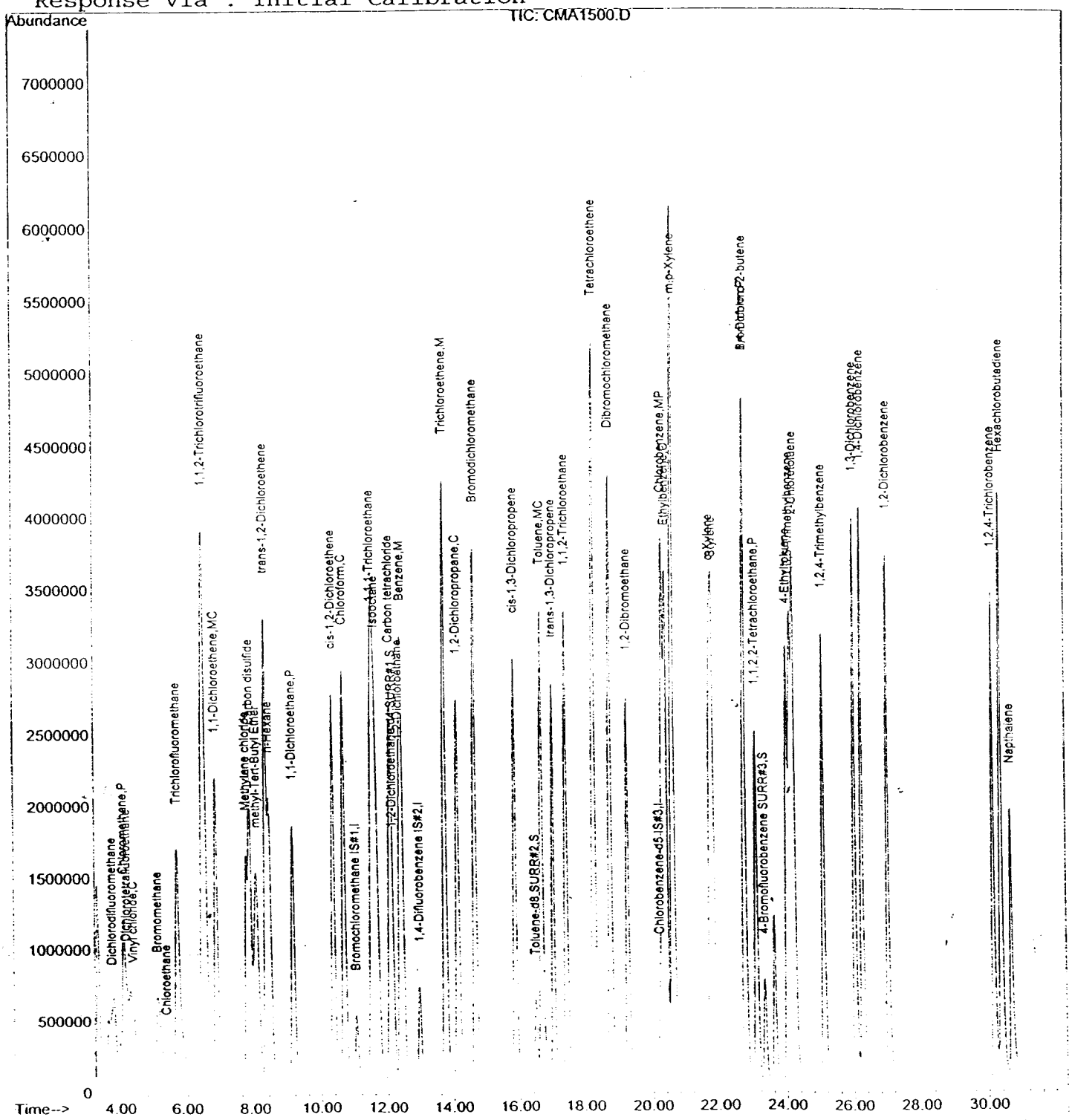
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
28)	Trichloroethene	13.75	130	4905602	1610.59 ng		9
29)	1,2-Dichloropropane	14.14	63	3667215	1649.48 ng		9
30)	Bromodichloromethane	14.67	83	8246077	1609.60 ng		9
31)	cis-1,3-Dichloropropene	15.87	75	5570045	1636.50 ng		9
33)	Toluene	16.67	92	5445867	1580.53 ng	#	9
34)	trans-1,3-Dichloropropene	17.03	75	4698934	1627.42 ng		9
35)	1,1,2-Trichloroethane	17.43	97	3608551	1600.84 ng		9
37)	Tetrachloroethene	18.27	164	4624498	1681.45 ng		9
38)	Dibromochloromethane	18.75	127	5988121	1642.75 ng	#	9
39)	Chlorobenzene	20.31	112	7257858	1619.21 ng		9
40)	Ethylbenzene	20.41	106	2899256	1654.01 ng		9
41)	m,p-Xylene	20.62	106	6951940	3174.82 ng		9
42)	o-Xylene	21.75	106	3357943	1614.24 ng		9
43)	Styrene	21.83	104	5650591	1589.02 ng		9
44)	Bromoform	22.74	173	5941755	1509.62 ng		9
45)	1,1,2,2-Tetrachloroethane	23.09	83	4774741	1447.34 ng		9
47)	1,4-Dichloro-2-butene	22.74	75	1218445	1605.77 ng		8
48)	4-Ethyltoluene	24.03	105	8029499	1534.17 ng		9
49)	1,3,5-Trimethylbenzene	24.13	105	6006527	1486.84 ng	#	8
50)	2-Chlorotoluene	24.23	91	8248298	1582.87 ng		9
51)	1,2,4-Trimethylbenzene	25.10	105	6415415	1584.12 ng		9
52)	1,3-Dichlorobenzene	26.04	146	5291893	1533.24 ng	#	9
53)	1,4-Dichlorobenzene	26.25	146	5437283	1515.37 ng	#	9
54)	1,2-Dichlorobenzene	27.03	146	4799427	1500.17 ng	#	9
55)	1,2,4-Trichlorobenzene	30.15	180	3567897	1707.38 ng		9
56)	Napthalene	30.68	128	5191275	1850.52 ng	#	9
57)	Hexachlorobutadiene	30.40	225	2684141	1735.03 ng		9

(#) = qualifier out of range (m) = manual integration
CMA1500.D TO14S.M Mon Aug 05 18:11:04 2002 Page

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA1500.D
Acq On : 5 Aug 2002 17:38
Sample : 1500ng/60uL/300ppb INITIAL CALIB.
Misc : Pi/Pf=1 MA135ABK
MS Integration Params: rteint.p
Quant Time: Aug 6 9:22 2002

Vial: 8
Operator: BDH
Inst : MARILYN
Multiplr: 1.00
Quant Results File: TO14S.RES

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Tue Aug 06 09:21:42 2002
Response via : Initial Calibration



CMA1500.D TO14S.M Tue Aug 06 09:23:12 2002 Page 3

Date 9-16-02 Instrument ID: [illegible] Maint. ____

Batch MA164 (1) 2 3 Batch ____ 1 2 3 AIR-SPK 8 -MSW- 36 - 2

IS# 8 -MSW- 34 - 1 TO14 8 -MSW- 37 - 1 W-SPK -MSW- -

BFB 8 -MSW- 34 - 1 8260 -MSW- -

TIME	POS #	METH	FILE NAME/ SAMPLE ID	DIL.	RR	PRES	MATRIX	QC PASS**	*INIT	COMMENTS
1005	1		~~BFM0916A~~				A	✓	✓	Daily Cal Check / BFB tune
10:44	2	TO14S	CM0916A					✓		Daily Method Blank
11:22	3		MA164 A BK	ST				✓		Batch# LCS
12:00	4		MA164 LCS	50ppb				✓		run X1000 500ml
13:11	5		9181-1	St		Y N		✓		carryover clean up OK
13:49	6		BLK6			Y N		✓		0.5ml
14:26	7		9181-1 X	X1000		Y N		✓		500ml
15:11	8		9256-1	St		Y N		✓		500ml
16:07	9		9257-1	St		Y N		✓		
:	10					Y N				
:						Y N				
:						Y N				
:						Y N				
:						Y N				
:						Y N				
:						Y N				
:						Y N				
:						Y N				
:						Y N				
:						Y N				
:						Y N				
:						Y N				
:						Y N				
:						Y N				

9-23-02

* The analyst whose name appears above is the analyst who removed the sample(s) from the sample storage refrigerator, maintained custody during analysis and relinquished sample(s) back to the sample storage refrigerator.

** Iss and surrogates were checked automatically using the software and generic Forms II and VIII that are located in the daily folder.

100

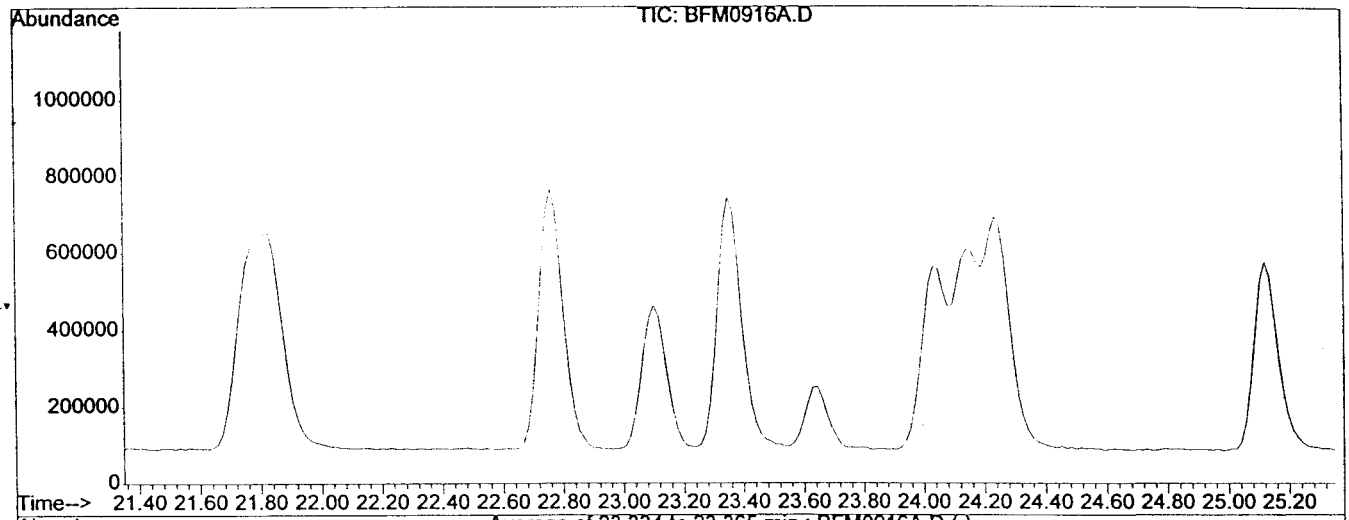
STL Pensacola

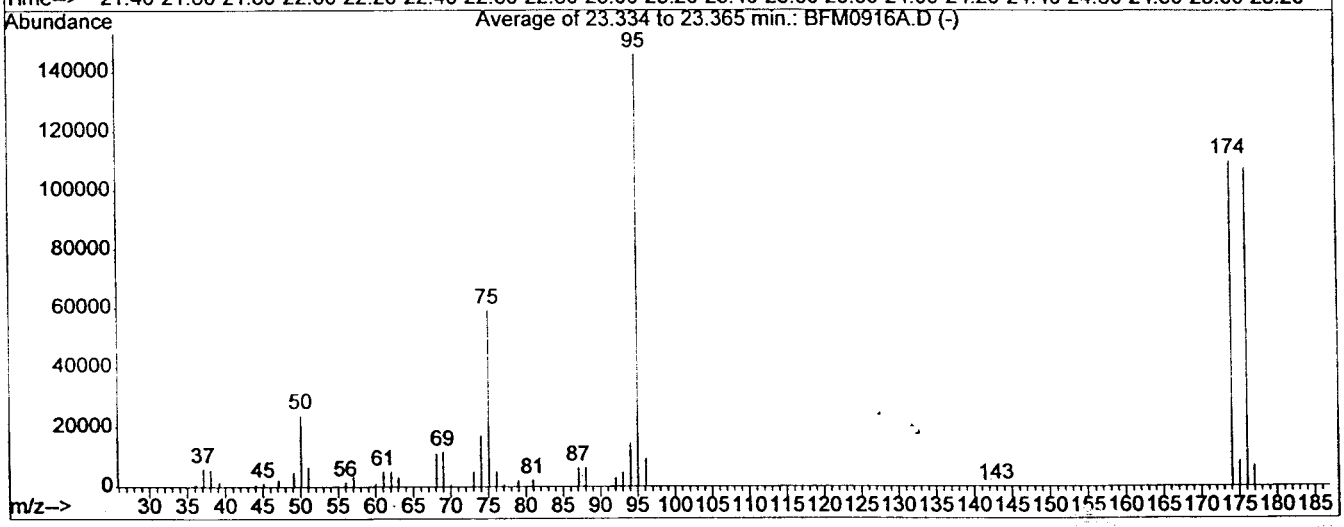
CTO-0002, NAS Cecil Field

BFB

Data File : D:\HPCHEM\1\DATA02\M091602A\BFM0916A.D Vial: 1
Acq On : 16 Sep 2002 10:05 Operator: LAD
Sample : TUNE Inst : MARILYN
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14

9-16-0





Spectrum Information: Average of 23.334 to 23.365 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.6	24269	PASS
75	95	30	60	40.7	59467	PASS
95	95	100	100	100.0	146027	PASS
96	95	5	9	6.5	9472	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	75.4	110133	PASS
175	174	5	9	7.9	8656	PASS
176	174	95	101	97.9	107837	PASS
177	176	5	9	6.7	7236	PASS

BFM0916A.D TO14S.M Mon Sep 16 11:15:46 2002

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA02\M091602A\CM0916A.D Vial: 2
Acq On : 16 Sep 2002 10:44 Operator: LAD
Sample : VSTD250\ DAILY CALIBRATION CHECK Inst : MARILYN
Misc : 250ng Multiplr: 1.00
MS Integration Params: rteint.p

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Sep 16 11:40:24 2002
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 2% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min
1	I	Bromochloromethane IS#1	250.000	250.000	0.0	80	0.00
2		Dichlorodifluoromethane	250.000	259.457	-3.8#	80	0.00
3		Dichlorotetrafluoroethane	250.000	296.319	-18.5#	85	0.00
4	P	Chloromethane	250.000	277.409	-11.0#	90	0.00
5	C	Vinyl chloride	250.000	292.312	-16.9#	85	0.00
6		Bromomethane	250.000	281.780	-12.7#	97	0.00
7		Chloroethane	250.000	295.689	-18.3#	89	0.00
8		Trichlorofluoromethane	250.000	260.700	-4.3#	77	0.00
9		1,1,2-Trichlorotrifluoroeth	250.000	281.159	-12.5#	86	0.00
10	MC	1,1-Dichloroethene	250.000	271.403	-8.6#	82	0.00
11		Iodomethane	-1.000	0.000	0.0	0	-7.51#
12		Methylene chloride	250.000	272.121	-8.8#	84	0.00
13		Carbon disulfide	250.000	269.028	-7.6#	82	0.00
14		methyl-Tert-Butyl Ether	250.000	265.488	-6.2#	84	0.00
15		trans-1,2-Dichloroethene	250.000	277.327	-10.9#	85	0.00
16		n-Hexane	250.000	247.706	0.9	80	0.00
17	P	1,1-Dichloroethane	250.000	276.348	-10.5#	84	0.00
18		cis-1,2-Dichloroethene	250.000	280.168	-12.1#	85	0.00
19	C	Chloroform	250.000	281.267	-12.5#	85	0.00
20		Isooctane	250.000	261.363	-4.5#	82	0.00
21		1,1,1-Trichloroethane	250.000	277.565	-11.0#	84	0.00
22		Carbon tetrachloride	250.000	279.129	-11.7#	85	0.00
23	S	1,2-Dichloroethane d4 SURR#	250.000	253.414	-1.4	84	0.00
24		1,2-Dichloroethane	250.000	271.177	-8.5#	84	0.00
25		1,2-Dibromoethane	250.000	277.750	-11.1#	85	0.00
26	I	1,4-Difluorobenzene IS#2	250.000	250.000	0.0	86	0.00
27	M	Benzene	250.000	264.756	-5.9#	86	0.00
28	M	Trichloroethene	250.000	269.704	-7.9#	87	0.00
29	C	1,2-Dichloropropane	250.000	263.583	-5.4#	85	0.00
30		Bromodichloromethane	250.000	265.642	-6.3#	86	0.00
31		cis-1,3-Dichloropropene	250.000	260.787	-4.3#	85	0.00
32	S	Toluene-d8 SURR#2	250.000	244.299	2.3#	85	0.00
33	MC	Toluene	250.000	269.490	-7.8#	87	0.00
34		trans-1,3-Dichloropropene	250.000	258.905	-3.6#	85	0.00
35		1,1,2-Trichloroethane	250.000	263.690	-5.5#	86	0.00
36	I	Chlorobenzene-d5 IS#3	250.000	250.000	0.0	86	0.00
37		Tetrachloroethene	250.000	266.004	-6.4#	87	0.00
38		Dibromochloromethane	250.000	266.154	-6.5#	86	0.00
39	MP	Chlorobenzene	250.000	269.387	-7.8#	86	0.00

(#) = Out of Range
CM0916A.D TO14S.M Mon Sep 16 11:40:40 2002 Page

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA02\M091602A\CM0916A.D Vial: 2
Acq On : 16 Sep 2002 10:44 Operator: LAD
Sample : VSTD250\ DAILY CALIBRATION CHECK Inst : MARILYN
Misc : 250ng Multiplr: 1.00
MS Integration Params: rteint.p

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Sep 16 11:40:24 2002
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 2% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
40	C	Ethylbenzene	250.000	267.592	-7.0#✓	87	0.00
41		m,p-Xylene	500.000	544.063	-8.8#	87	0.00
42		o-Xylene	250.000	267.624	-7.0#	86	0.00
43		Styrene	250.000	268.012	-7.2#	86	0.00
44	P	Bromoform	250.000	270.352	-8.1#	85	0.00
45	P	1,1,2,2-Tetrachloroethane	250.000	276.978	-10.8#	86	0.00
46	S	4-Bromofluorobenzene SURR#3	250.000	250.382	-0.2	86	0.00
47		1,4-Dichloro-2-butene	250.000	256.919	-2.8#	82	0.00
48		4-Ethyltoluene	250.000	260.884	-4.4#	85	0.00
49		1,3,5-Trimethylbenzene	250.000	302.725	-21.1#	91	0.00
50		2-Chlorotoluene	250.000	267.308	-6.9#	88	0.00
51		1,2,4-Trimethylbenzene	250.000	281.053	-12.4#	91	0.00
52		1,3-Dichlorobenzene	250.000	275.753	-10.3#	88	0.00
53		1,4-Dichlorobenzene	250.000	274.639	-9.9#	89	0.00
54		1,2-Dichlorobenzene	250.000	282.680	-13.1#	87	0.00
55		1,2,4-Trichlorobenzene	250.000	282.853	-13.1#	91	0.00
56		Napthalene	250.000	267.546	-7.0#	85	0.00
57		Hexachlorobutadiene	250.000	273.933	-9.6#	88	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6
CM0916A.D TO14S.M Mon Sep 16 11:40:40 2002 Page

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA02\M091602A\CM0916A.D Vial: 2
Acq On : 16 Sep 2002 10:44 Operator: LAD
Sample : VSTD250\ DAILY CALIBRATION CHECK Inst : MARILYN
Misc : 250ng Multiplr: 1.00
MS Integration Params: rteint.p

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Sep 16 11:40:24 2002
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 2% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min
1	I	Bromochloromethane IS#1	1.000	1.000	0.0	80	0.00
2		Dichlorodifluoromethane	0.776	0.843	-8.6#	80	0.00
3		Dichlorotetrafluoroethane	1.201	1.423	-18.5#	85	0.00
4	P	Chloromethane	0.753	0.835 ✓	-10.9#	90	0.00
5	C	Vinyl chloride	0.658	0.769	-16.9#	85	0.00
6		Bromomethane	0.625	0.705	-12.8#	97	0.00
7		Chloroethane	0.416	0.540	-29.8#	89	0.00
8		Trichlorofluoromethane	2.508	2.616	-4.3#	77	0.00
9		1,1,2-Trichlorotrifluoroeth	2.166	2.436	-12.5#	86	0.00
10	MC	1,1-Dichloroethene	1.107	1.202	-8.6#	82	0.00
11		Iodomethane	0.000	0.000	0.0	0#	-7.51#
12		Methylene chloride	1.322	1.439	-8.9#	84	0.00
13		Carbon disulfide	3.024	3.254	-7.6#	82	0.00
14		methyl-Tert-Butyl Ether	2.135	2.267	-6.2#	84	0.00
15		trans-1,2-Dichloroethene	1.278	1.417	-10.9#	85	0.00
16		n-Hexane	1.257	1.245	1.0	80	0.00
17	P	1,1-Dichloroethane	2.053	2.269 ✓	-10.5#	84	0.00
18		cis-1,2-Dichloroethene	1.645	1.843	-12.0#	85	0.00
19	C	Chloroform	2.454	2.761	-12.5#	85	0.00
20		Isooctane	4.047	4.231	-4.5#	82	0.00
21		1,1,1-Trichloroethane	2.235	2.482	-11.1#	84	0.00
22		Carbon tetrachloride	2.266	2.530	-11.7#	85	0.00
23	S	1,2-Dichloroethane d4 SURR#	1.114	1.130	-1.4	84	0.00
24		1,2-Dichloroethane	1.216	1.319	-8.5#	84	0.00
25		1,2-Dibromoethane	2.141	2.379	-11.1#	85	0.00
26	I	1,4-Difluorobenzene IS#2	1.000	1.000	0.0	86	0.00
27	M	Benzene	0.703	0.744	-5.8#	86	0.00
28	M	Trichloroethene	0.399	0.431	-8.0#	87	0.00
29	C	1,2-Dichloropropane	0.297	0.313	-5.4#	85	0.00
30		Bromodichloromethane	0.675	0.717	-6.2#	86	0.00
31		cis-1,3-Dichloropropene	0.451	0.470	-4.2#	85	0.00
32	S	Toluene-d8 SURR#2	0.738	0.721	2.3#	85	0.00
33	MC	Toluene	0.446	0.480	-7.6#	87	0.00
34		trans-1,3-Dichloropropene	0.380	0.393	-3.4#	85	0.00
35		1,1,2-Trichloroethane	0.295	0.311	-5.4#	86	0.00
36	I	Chlorobenzene-d5 IS#3	1.000	1.000	0.0	86	0.00
37		Tetrachloroethene	0.546	0.581	-6.4#	87	0.00
38		Dibromochloromethane	0.726	0.773 ✓	-6.5#	86	0.00
39	MP	Chlorobenzene	0.880	0.948 ✓	-7.7#	86	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA02\M091602A\CM0916A.D Vial: 2
Acq On : 16 Sep 2002 10:44 Operator: LAD
Sample : VSTD250\ DAILY CALIBRATION CHECK Inst : MARILYN
Misc : 250ng Multiplr: 1.00
MS Integration Params: rteint.p

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Sep 16 11:40:24 2002
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 2% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
40	C	Ethylbenzene	0.345	0.369	-7.0#	87	0.00
41		m,p-Xylene	0.421	0.458	-8.8#	87	0.00
42		o-Xylene	0.399	0.427	-7.0#	86	0.00
43		Styrene	0.674	0.723	-7.3#	86	0.00
44	P	Bromoform	0.764	0.826 ✓	-8.1#	85	0.00
45	P	1,1,2,2-Tetrachloroethane	0.652	0.723 ✓	-10.9#	86	0.00
46	S	4-Bromofluorobenzene SURR#3	0.773	0.774	-0.1	86	0.00
47		1,4-Dichloro-2-butene	0.153	0.158	-3.3#	82	0.00
48		4-Ethyltoluene	0.999	1.043	-4.4#	85	0.00
49		1,3,5-Trimethylbenzene	0.769	0.931	-21.1#	91	0.00
50		2-Chlorotoluene	1.006	1.076	-7.0#	88	0.00
51		1,2,4-Trimethylbenzene	0.773	0.869	-12.4#	91	0.00
52		1,3-Dichlorobenzene	0.651	0.718	-10.3#	88	0.00
53		1,4-Dichlorobenzene	0.671	0.737	-9.8#	89	0.00
54		1,2-Dichlorobenzene	0.605	0.684	-13.1#	87	0.00
55		1,2,4-Trichlorobenzene	0.412	0.467	-13.3#	91	0.00
56		Napthalene	0.585	0.626	-7.0#	85	0.00
57		Hexachlorobutadiene	0.326	0.357	-9.5#	88	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6
CM0916A.D TO14S.M Mon Sep 16 11:40:36 2002 Page 2

Quantitation Report

Data File : D:\HPCHEM\1\DATA02\M091602A\CM0916A.D Vial: 2
Acq On : 16 Sep 2002 10:44 Operator: LAD
Sample : VSTD250\ DAILY CALIBRATION CHECK Inst : MARILYN
Misc : 250ng Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 16 11:40 2002 Quant Results File: TO14S.RES

Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Sep 09 10:13:29 2002
Response via : Initial Calibration
DataAcq Meth : TO14S
IS QA File : D:\HPCHEM\1\DATA02\M0909A\CM0909A.D (9 Sep 2002 9:34)

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Mir Rcv(Ar
1) Bromochloromethane IS#1	11.07	128	412119	250.00	ng	-0.(93.2
26) 1,4-Difluorobenzene IS#2	12.99	114	1826554	250.00	ng	-0.(96.5
36) Chlorobenzene-d5 IS#3	20.23	117	1250080	250.00	ng	-0.(95.3

System Monitoring Compounds

23) 1,2-Dichloroethane d4 SURR	12.19	65	465544	253.41	ng	-0.(
Spiked Amount 250.000 Range 61 - 140 Recovery = 101.36%						
32) Toluene-d8 SURR#2	16.50	98	1317163	244.30	ng	-0.(
Spiked Amount 250.000 Range 90 - 109 Recovery = 97.72%						
46) 4-Bromofluorobenzene SURR#	23.35	95	967848	250.38	ng	-0.(
Spiked Amount 250.000 Range 87 - 112 Recovery = 100.15%						

Target Compounds

							Qvalue
2) Dichlorodifluoromethane	3.63	85	347449	259.46	ng		9
3) Dichlorotetrafluoroethane	3.83	135	586650m	296.32	ng		4
4) Chloromethane	4.10	50	344124	277.41	ng	#	9
5) Vinyl chloride	4.30	62	317013	292.31	ng	#	8
6) Bromomethane	5.12	94	290505	281.78	ng	#	9
7) Chloroethane	5.25	64	222673m	295.69	ng	#	8
8) Trichlorofluoromethane	5.73	101	1077964	260.70	ng		1(
9) 1,1,2-Trichlorotrifluoroet	6.52	151	1003789	281.16	ng		8
10) 1,1-Dichloroethene	6.88	96	495267	271.40	ng		8
12) Methylene chloride	7.78	49	593118	272.12	ng		9
13) Carbon disulfide	7.89	76	1340904	269.03	ng		1(
14) methyl-Tert-Butyl Ether	8.06	73	934449	265.49	ng		1
15) trans-1,2-Dichloroethene	8.35	96	584050	277.33	ng		
16) n-Hexane	8.46	57	513172	247.71	ng	#	
17) 1,1-Dichloroethane	9.17	63	935079	276.35	ng		
18) cis-1,2-Dichloroethene	10.39	61	759646	280.17	ng		
19) Chloroform	10.71	83	1137792	281.27	ng		
20) Isooctane	11.67	57	1743775	261.36	ng		
21) 1,1,1-Trichloroethane	11.57	97	1022841	277.57	ng		
22) Carbon tetrachloride	12.12	117	1042489	279.13	ng		
24) 1,2-Dichloroethane	12.39	62	543453	271.18	ng	#	
25) 1,2-Dibromoethane	19.28	107	980276	277.75	ng		
27) Benzene	12.47	78	1359697	264.76	ng		

(#) = qualifier out of range (m) = manual integration
CM0916A.D TO14S.M Mon Sep 16 11:41:12 2002 Page

Data File : D:\HPCHEM\1\DATA02\M091602A\CM0916A.D Vial: 2
Acq On : 16 Sep 2002 10:44 Operator: LAD
Sample : VSTD250\ DAILY CALIBRATION CHECK Inst : MARILYN
Misc : 250ng Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 16 11:40 2002 Quant Results File: TO14S.RES

Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Sep 09 10:13:29 2002
Response via : Initial Calibration
DataAcq Meth : TO14S

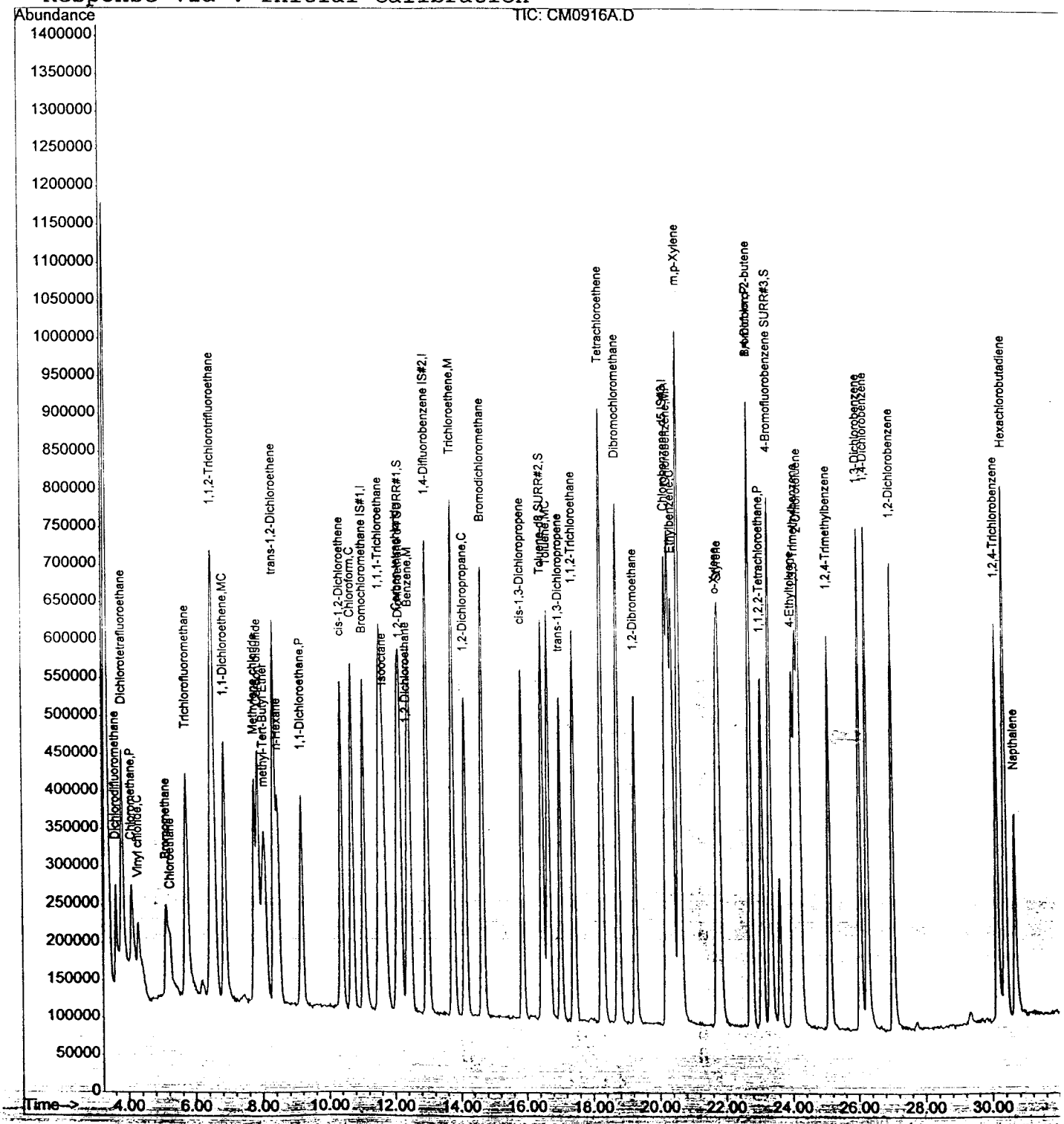
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
28)	Trichloroethene	13.77	130	786663	269.70 ng		93
29)	1,2-Dichloropropane	14.14	63	571542	263.58 ng		94
30)	Bromodichloromethane	14.69	83	1309491	265.64 ng		99
31)	cis-1,3-Dichloropropene	15.88	75	858990	260.79 ng		93
33)	Toluene	16.69	92	877415	269.49 ng		98
34)	trans-1,3-Dichloropropene	17.05	75	718423	258.90 ng		98
35)	1,1,2-Trichloroethane	17.45	97	568694	263.69 ng		96
37)	Tetrachloroethene	18.29	164	726693	266.00 ng		92
38)	Dibromochloromethane	18.77	127	966822	266.15 ng	#	96
39)	Chlorobenzene	20.32	112	1185240	269.39 ng		92
40)	Ethylbenzene	20.43	106	461807	267.59 ng		95
41)	m,p-Xylene	20.62	106	1144287	544.06 ng		94
42)	o-Xylene	21.77	106	533746	267.62 ng		96
43)	Styrene	21.84	104	903515	268.01 ng		94
44)	Bromoform	22.76	173	1033109	270.35 ng		100
45)	1,1,2,2-Tetrachloroethane	23.10	83	903625	276.98 ng		99
47)	1,4-Dichloro-2-butene	22.76	75	196990	256.92 ng		90
48)	4-Ethyltoluene	24.03	105	1303650	260.88 ng		94
49)	1,3,5-Trimethylbenzene	24.14	105	1163838m	302.72 ng	#	68
50)	2-Chlorotoluene	24.25	91	1344569	267.31 ng		96
51)	1,2,4-Trimethylbenzene	25.12	105	1086782	281.05 ng		98
52)	1,3-Dichlorobenzene	26.05	146	897198m	275.75 ng		94
53)	1,4-Dichlorobenzene	26.27	146	920973	274.64 ng	#	92
54)	1,2-Dichlorobenzene	27.04	146	854904	282.68 ng	#	93
55)	1,2,4-Trichlorobenzene	30.16	180	583209	282.85 ng		99
56)	Napthalene	30.69	128	781966	267.55 ng	#	91
57)	Hexachlorobutadiene	30.41	225	446860	273.93 ng		99

(#) = qualifier out of range (m) = manual integration
CM0916A.D TO14S.M Mon Sep 16 11:41:12 2002 Page 2

Quantitation Report

Data File : D:\HPCHEM\1\DATA02\M091602A\CM0916A.D Vial: 2
Acq On : 16 Sep 2002 10:44 Operator: LAD
Sample : VSTD250\ DAILY CALIBRATION CHECK Inst : MARILYN
Misc : 250ng Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 16 11:40 2002 Quant Results File: TO14S.RE

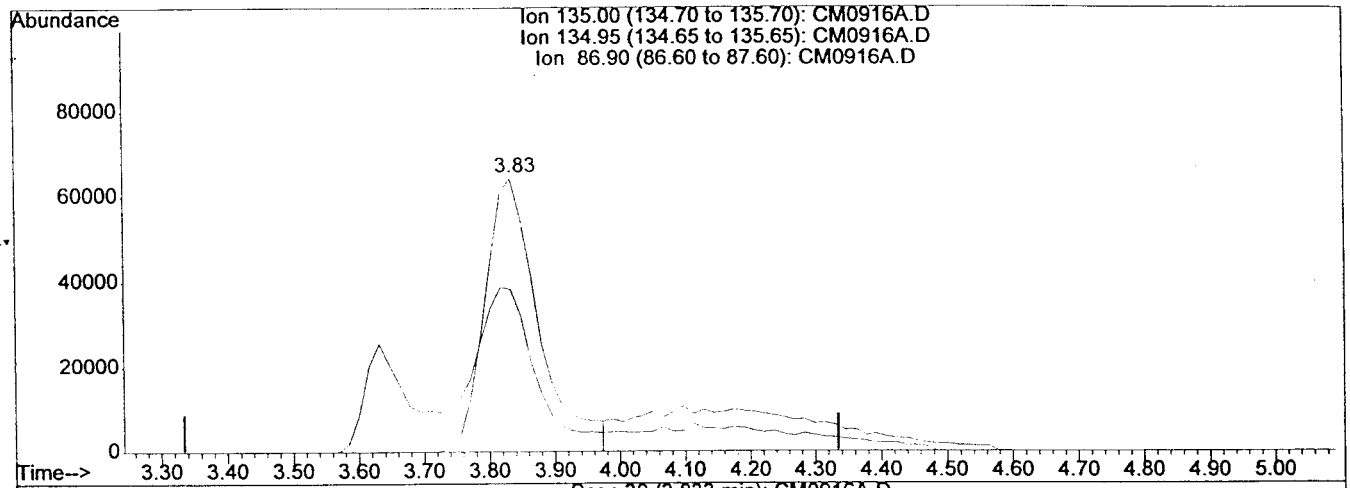
Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Sep 16 11:40:24 2002
Response via : Initial Calibration

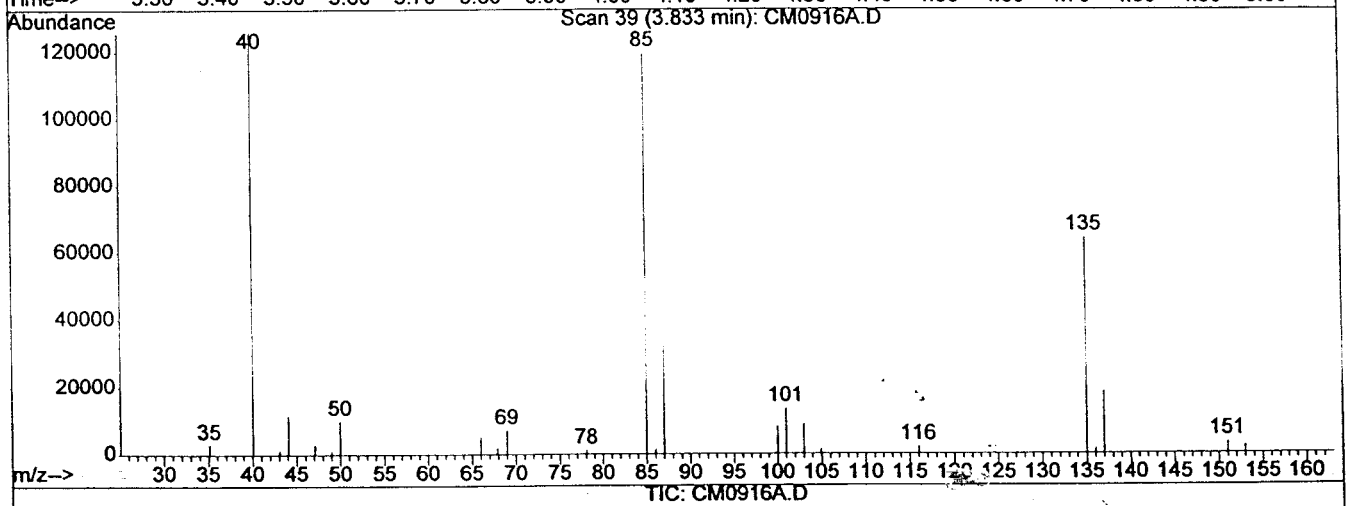


Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA02\M091602A\CM0916A.D Vial: 2
Acq On : 16 Sep 2002 10:44 Operator: LAD
Sample : VSTD250\ DAILY CALIBRATION CHECK Inst : MARILYN
Misc : 250ng Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 16 11:16 2002 Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Sep 09 10:13:29 2002
Response via : Multiple Level Calibration





TIC: CM0916A.D

(3) Dichlorotetrafluoroethane

3.83min 185.71ng

response 367670

Ion	Exp%	Act%
135.00	100	100
134.95	56.30	100.00#
86.90	32.70	57.81#
0.00	0.00	0.00

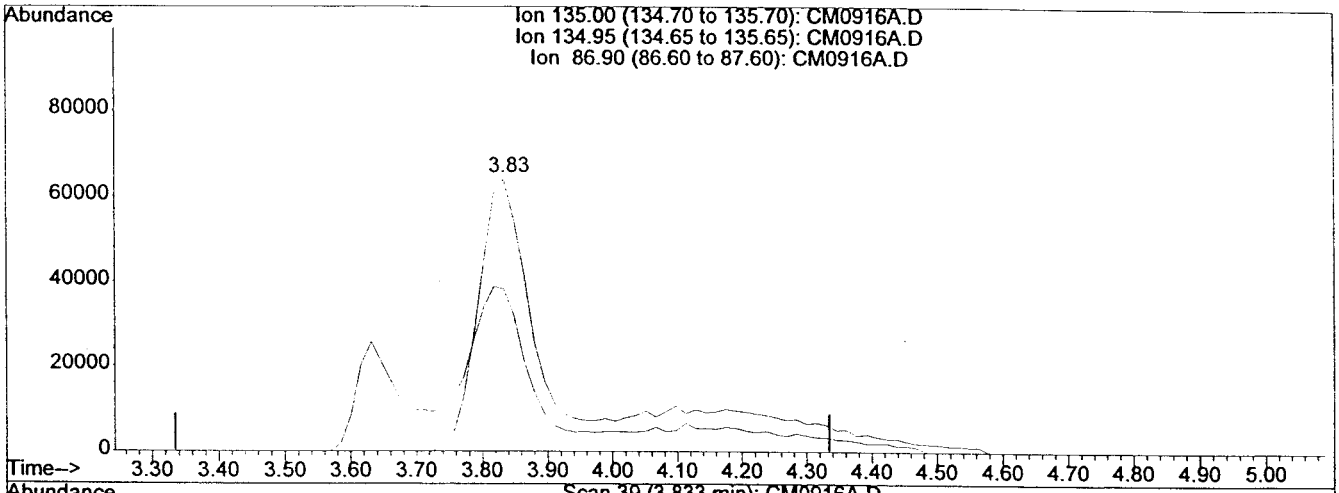
bad integration

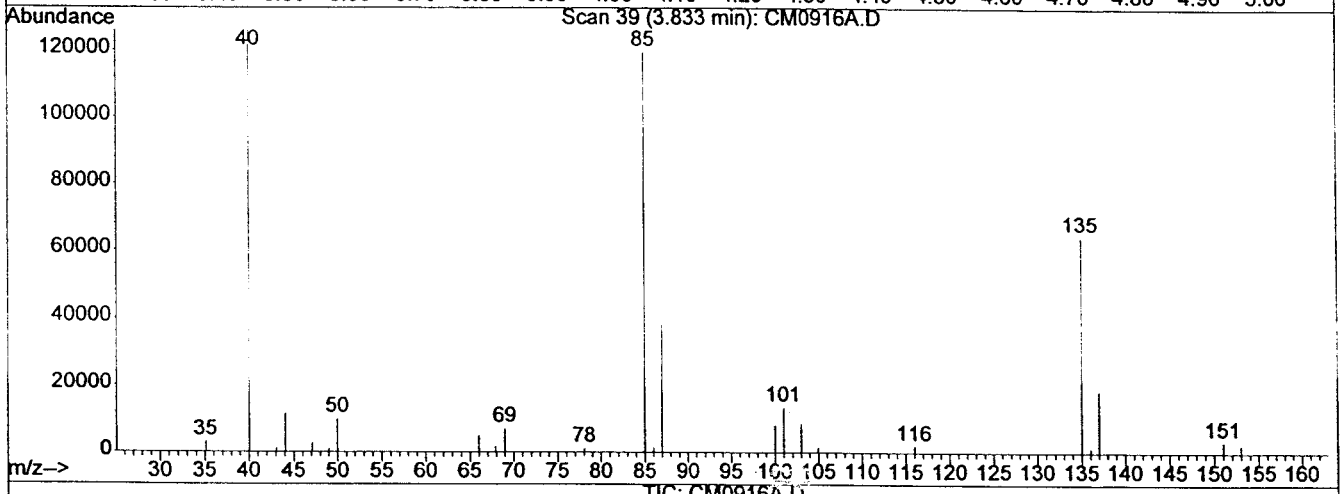
CM0916A.D TO14S.M Mon Sep 16 11:26:46 2002

Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA02\M091602A\CM0916A.D Vial: 2
Acq On : 16 Sep 2002 10:44 Operator: LAD
Sample : VSTD250\ DAILY CALIBRATION CHECK Inst : MARILY
Misc : 250ng Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 16 11:38 2002 Quant Results File: temp.r

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Sep 09 10:13:29 2002
Response via : Multiple Level Calibration





TIC: CM0916A.D

(3) Dichlorotetrafluoroethane

3.83min 296.32ng m

response 586650

Ion	Exp%	Act%
135.00	100	100
134.95	56.30	62.67
86.90	32.70	36.23
0.00	0.00	0.00

BS 9-16-02

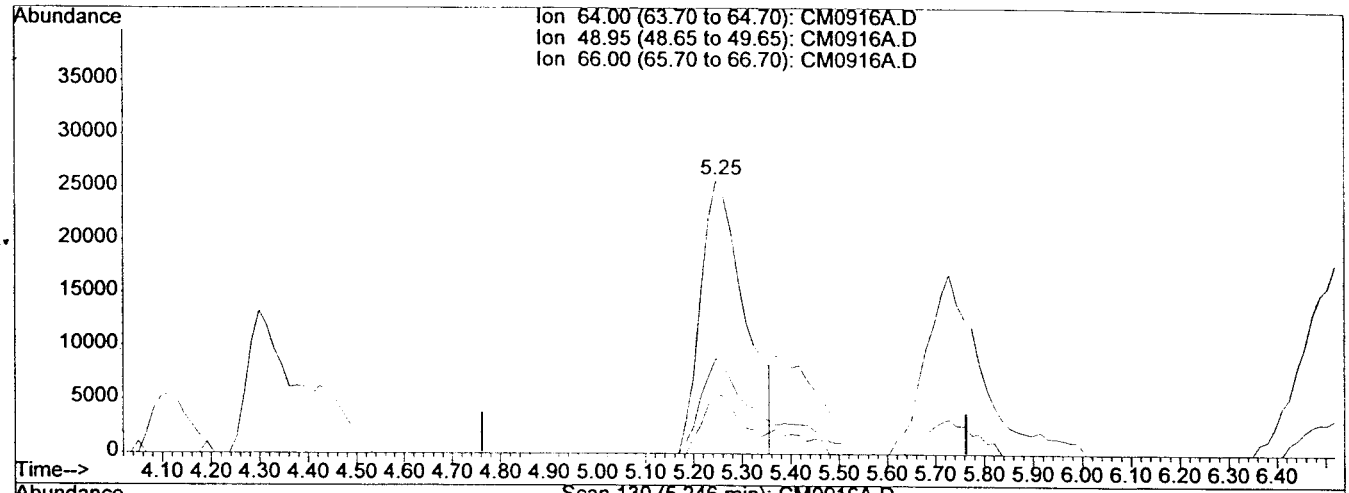
CM0916A.D TO14S.M Mon Sep 16 11:38:45 2002

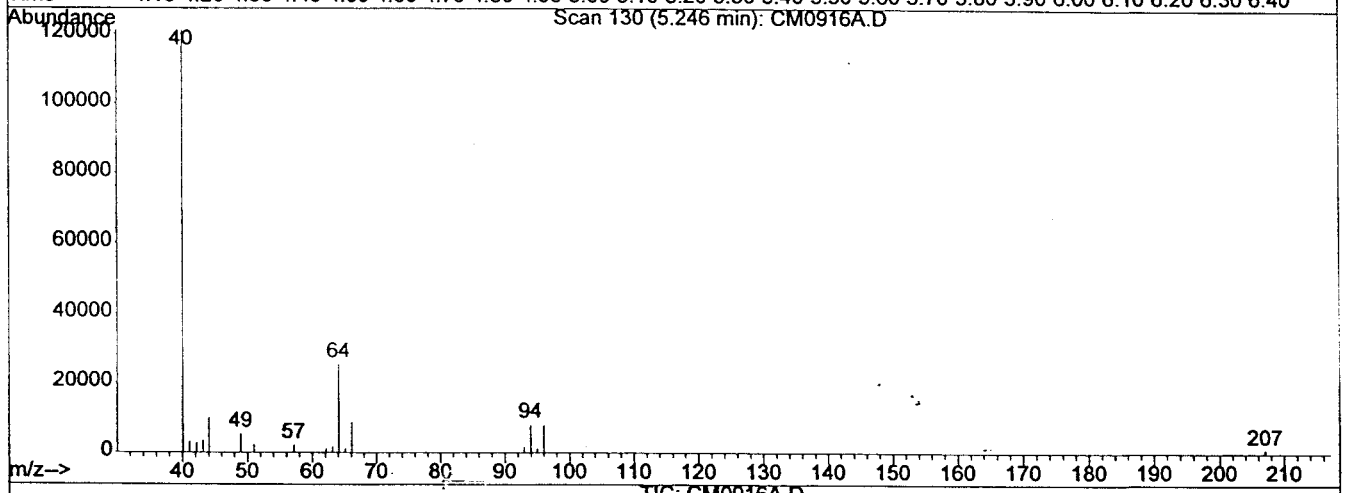
Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA02\M091602A\CM0916A.D
Acq On : 16 Sep 2002 10:44
Sample : VSTD250\-DAILY CALIBRATION CHECK
Misc : 250ng
MS Integration Params: rteint.p
Quant Time: Sep 16 11:38 2002

Vial: 2
Operator: LAD
Inst : MARILYN
Multiplr: 1.00
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Sep 09 10:13:29 2002
Response via : Multiple Level Calibration





TIC: CM0916A.D

(7) Chloroethane

5.25min 209.68ng

response 161158

Ion	Exp%	Act%
64.00	100	100
48.95	22.90	19.18
66.00	35.10	46.95#
0.00	0.00	0.00

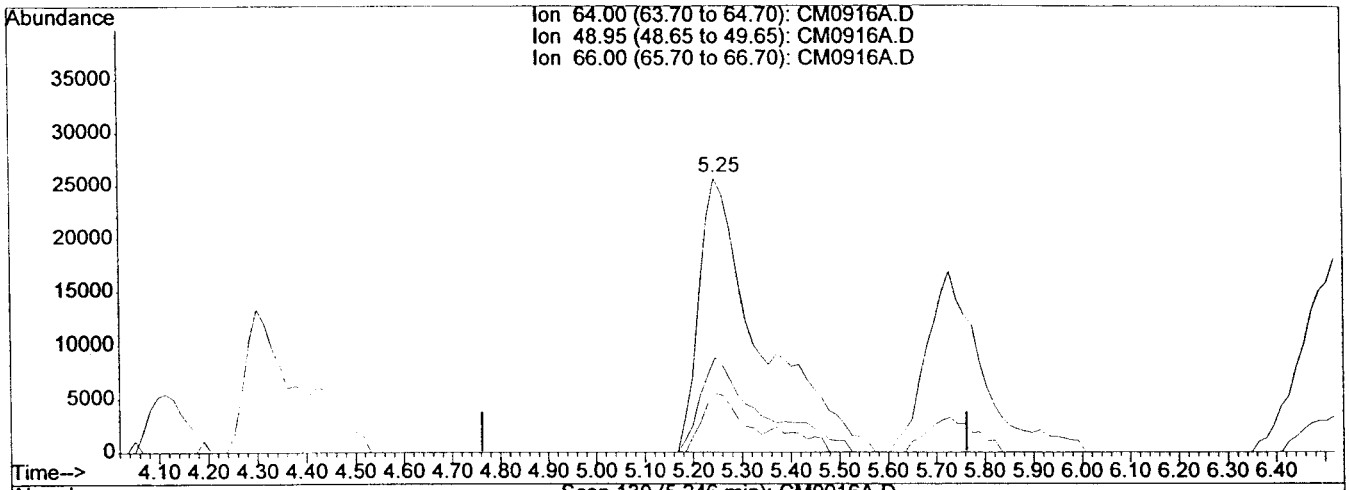
bad integration

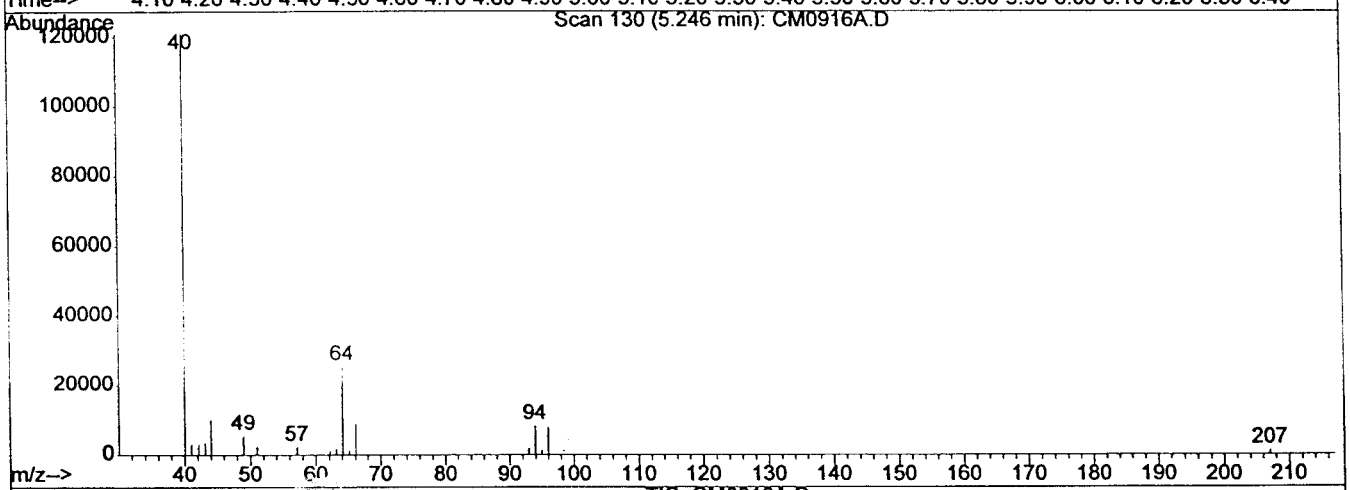
CM0916A.D TO14S.M Mon Sep 16 11:38:53 2002

Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA02\M091602A\CM0916A.D Vial: 2
Acq On : 16 Sep 2002 10:44 Operator: LAD
Sample : VSTD250\ DAILY CALIBRATION CHECK Inst : MARILY
Misc : 250ng Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 16 11:38 2002 Quant Results File: temp.r

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Sep 09 10:13:29 2002
Response via : Multiple Level Calibration





TIC: CM0916A.D

(7) Chloroethane

5.25min 295.69ng m

response 222673

Ion	Exp%	Act%
64.00	100	100
48.95	22.90	13.88#
66.00	35.10	33.98
0.00	0.00	0.00

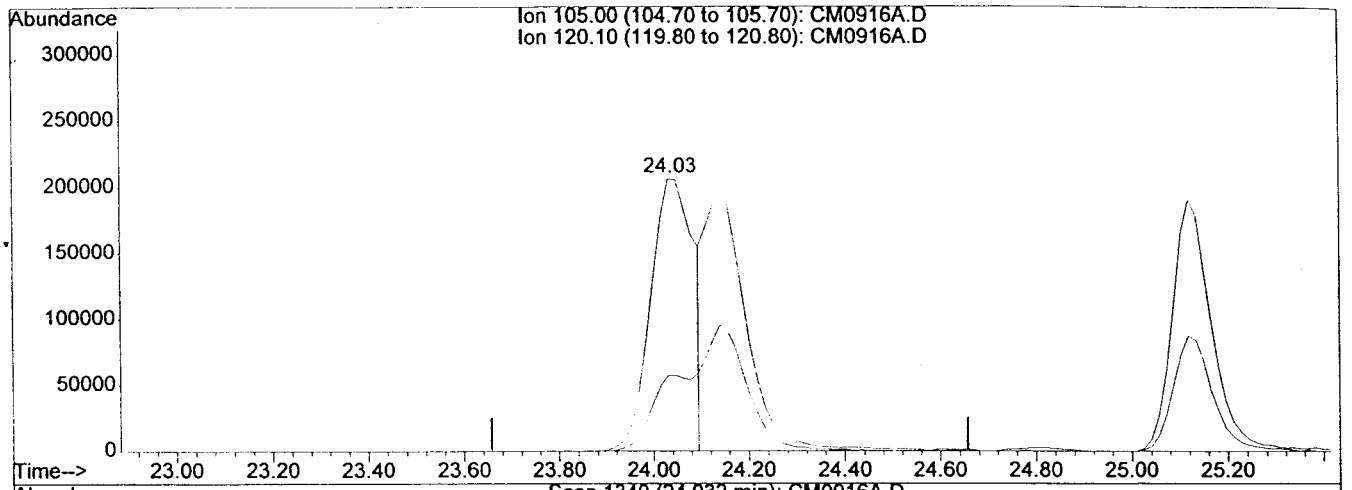
TM 9-16-02

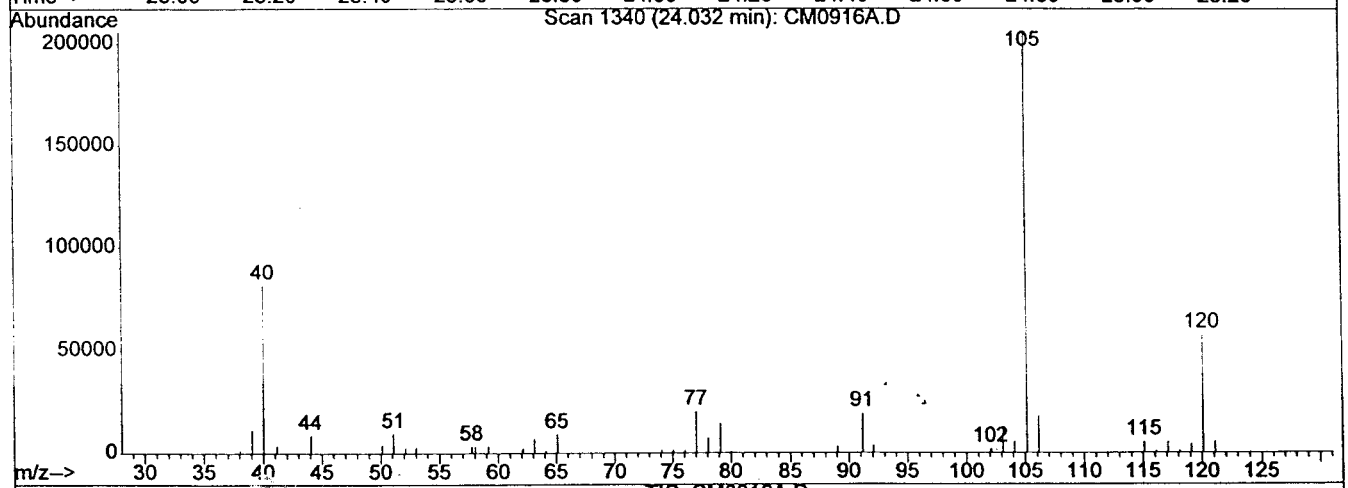
CM0916A.D TO14S.M Mon Sep 16 11:39:09 2002

Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA02\M091602A\CM0916A.D Vial: 2
Acq On : 16 Sep 2002 10:44 Operator: LAD
Sample : VSTD250\ DAILY CALIBRATION CHECK Inst : MARILYN
Misc : 250ng Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 16 11:38 2002 Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Sep 09 10:13:29 2002
Response via : Multiple Level Calibration





TIC: CM0916A.D

(49) 1,3,5-Trimethylbenzene

24.03min 339.09ng

response 1303650

Ion	Exp%	Act%
105.00	100	100
120.10	46.70	25.57#
0.00	0.00	0.00
0.00	0.00	0.00

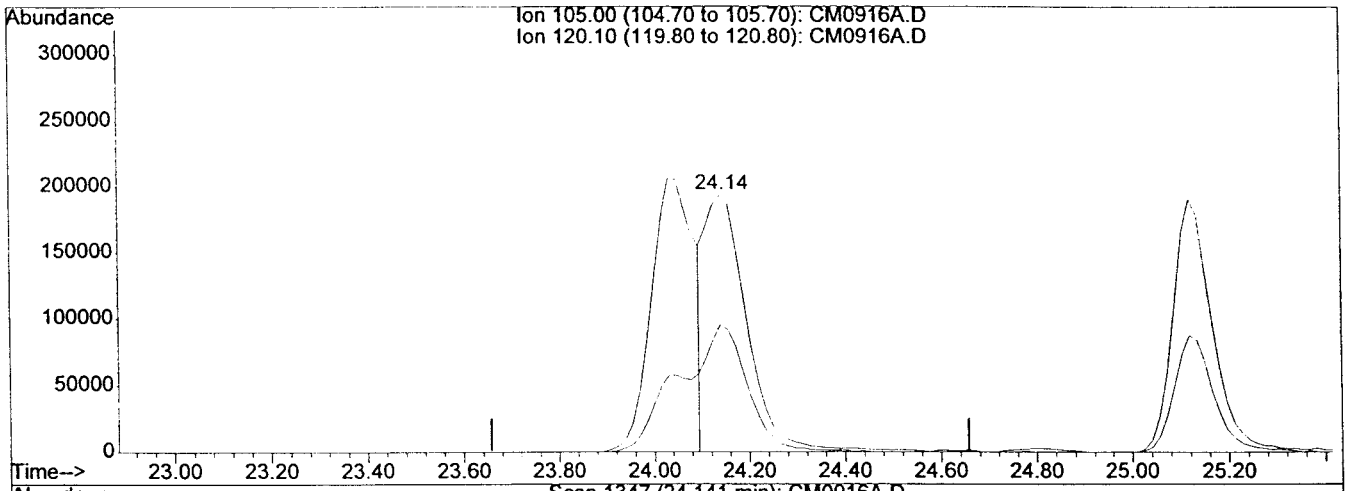
coelution
wrong peak

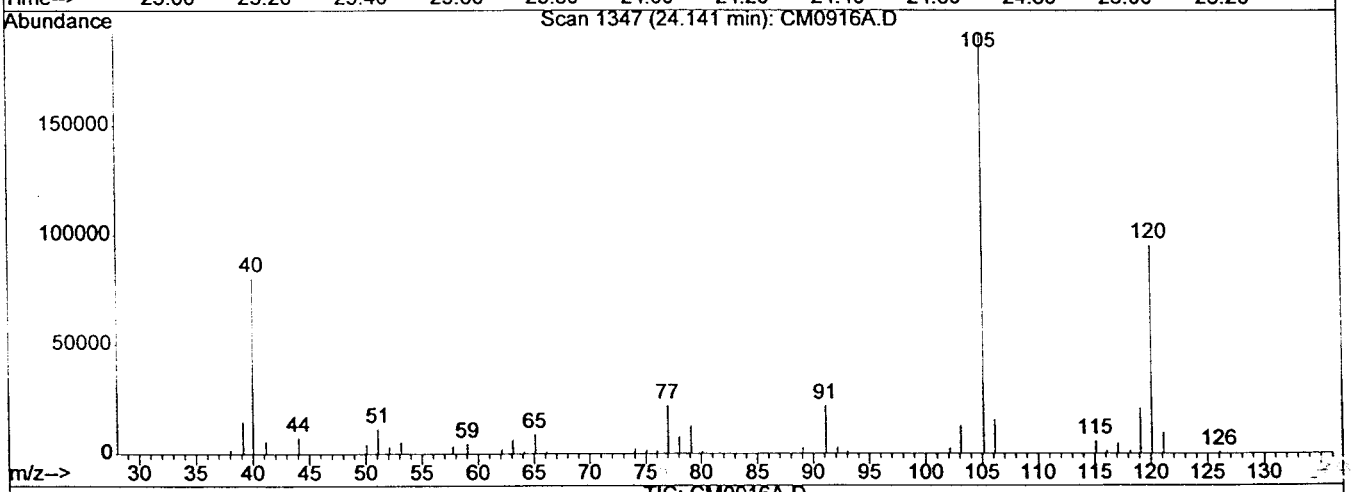
CM0916A.D TO14S.M Mon Sep 16 11:39:42 2002

Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA02\M091602A\CM0916A.D Vial: 2
Acq On : 16 Sep 2002 10:44 Operator: LAD
Sample : VSTD250\ DAILY CALIBRATION CHECK Inst : MARILY
Misc : 250ng Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 16 11:39 2002 Quant Results File: temp.r

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Sep 09 10:13:29 2002
Response via : Multiple Level Calibration





TIC: CM0916A.D

(49) 1,3,5-Trimethylbenzene

24.14min 302.72ng m

response 1163838

Ion	Exp%	Act%
105.00	100	100
120.10	46.70	28.64#
0.00	0.00	0.00
0.00	0.00	0.00

9-16-02

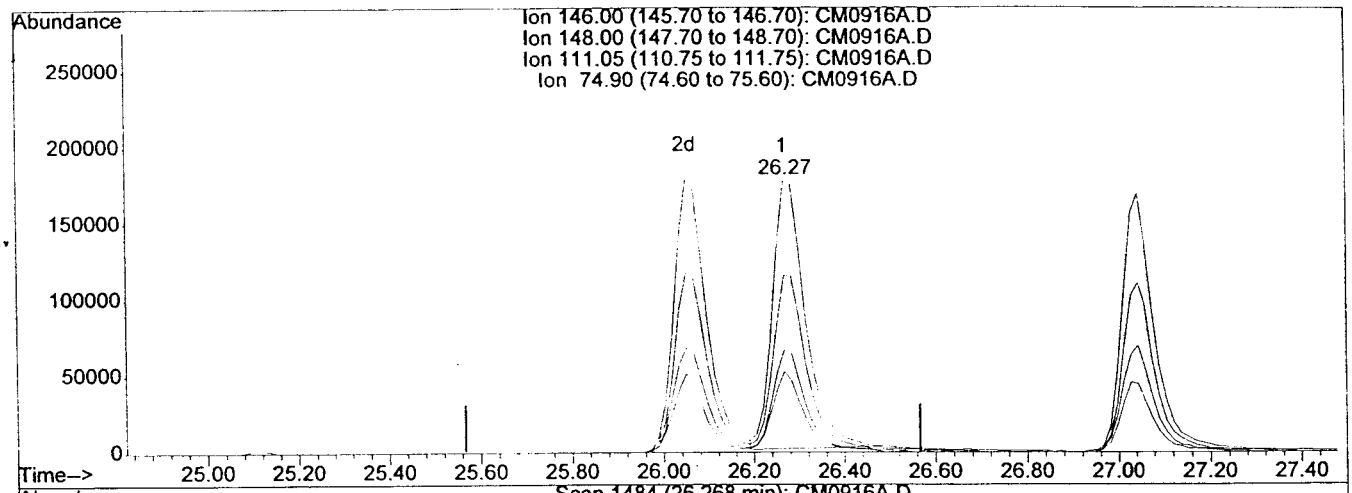
CM0916A.D TO14S.M Mon Sep 16 11:39:56 2002

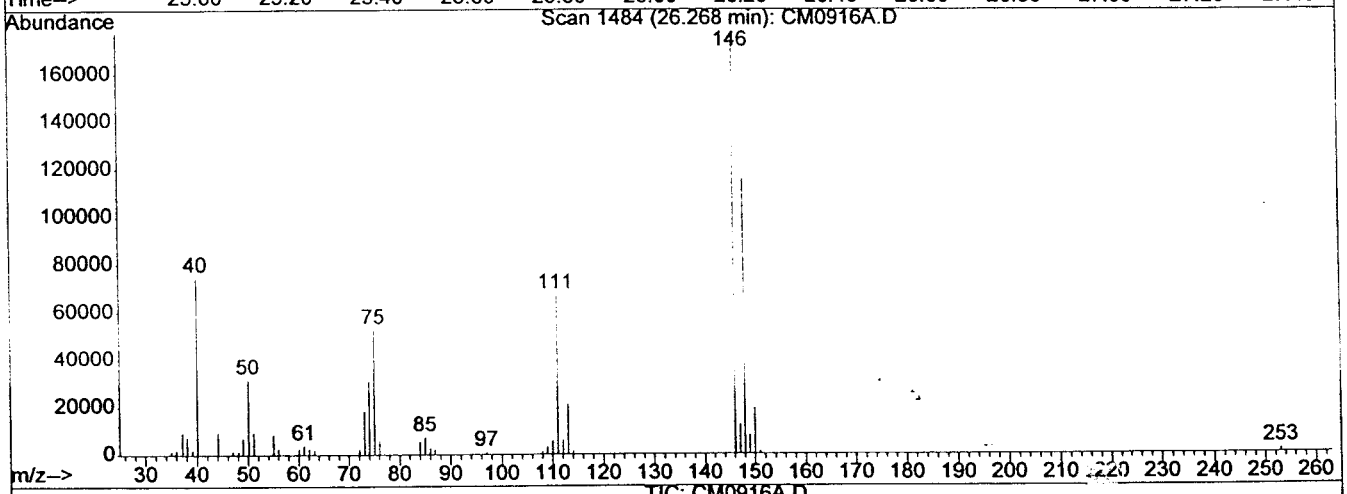
Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA02\M091602A\CM0916A.D
Acq On : 16 Sep 2002 10:44
Sample : VSTD250\ DAILY CALIBRATION CHECK
Misc : 250ng
MS Integration Params: rteint.p
Quant Time: Sep 16 11:39 2002

Vial: 2
Operator: LAD
Inst : MARILYN
Multiplr: 1.00
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Sep 09 10:13:29 2002
Response via : Multiple Level Calibration





TIC: CM0916A.D

(52) 1,3-Dichlorobenzene

26.27min 269.52ng

response 876924

Ion	Exp%	Act%
146.00	100	100
148.00	66.40	65.48
111.05	44.40	37.15
74.90	35.60	29.98

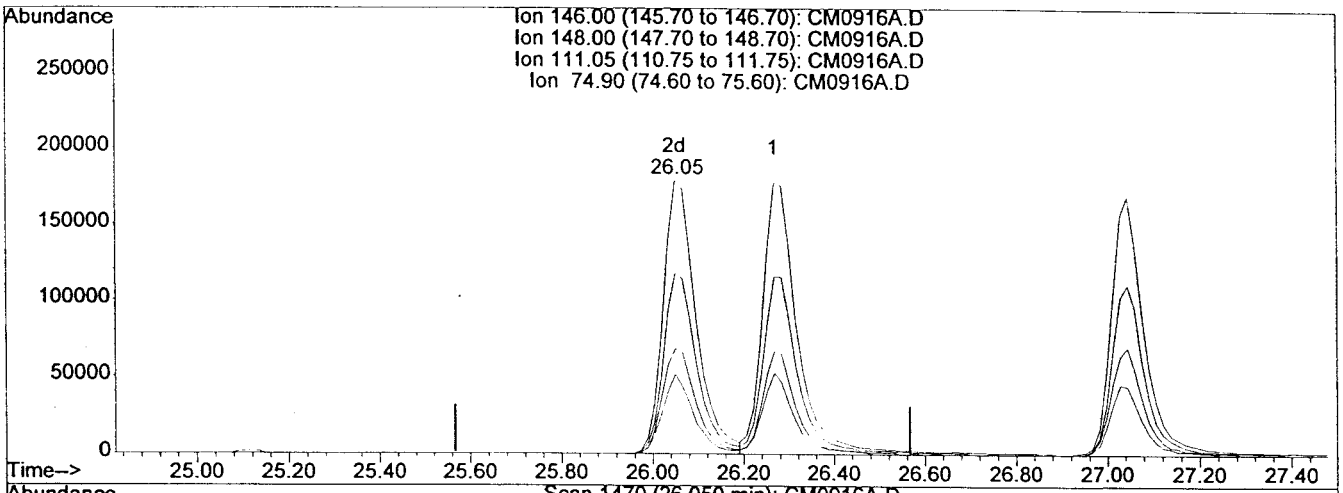
wrong peak

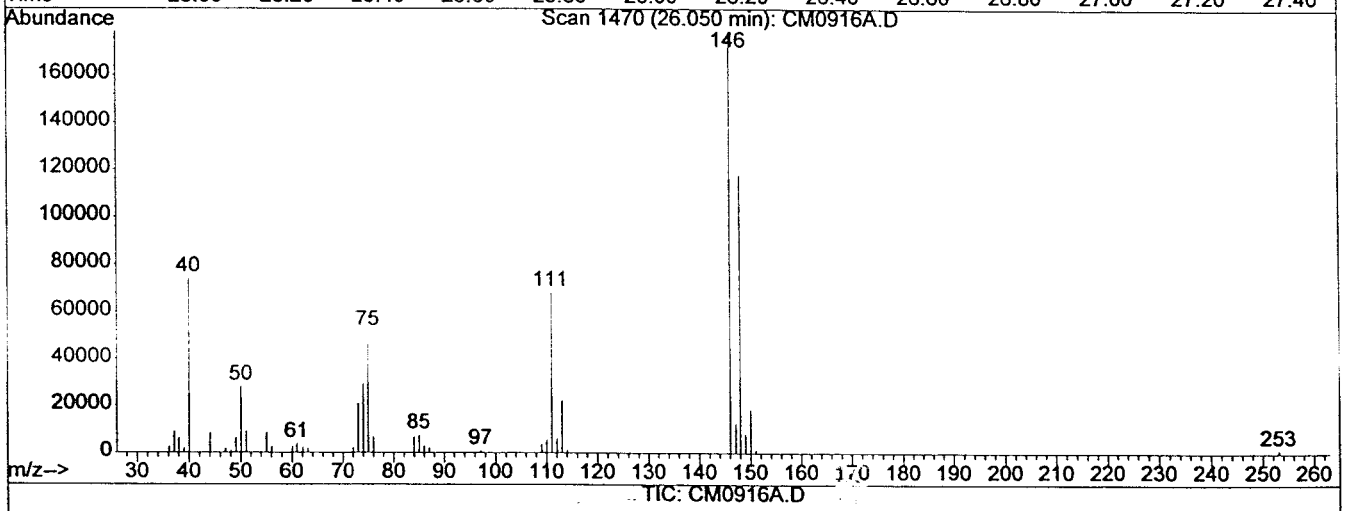
CM0916A.D TO14S.M Mon Sep 16 11:40:05 2002

Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA02\M091602A\CM0916A.D Vial: 2
Acq On : 16 Sep 2002 10:44 Operator: LAD
Sample : VSTD250\ DAILY CALIBRATION CHECK Inst : MARILY
Misc : 250ng Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 16 11:40 2002 Quant Results File: temp.r

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Sep 09 10:13:29 2002
Response via : Multiple Level Calibration





(52) 1,3-Dichlorobenzene

26.05min 275.75ng m

response 897198

Ion	Exp%	Act%
146.00	100	100
148.00	66.40	64.00
111.05	44.40	36.31
74.90	35.60	29.31

JS 9-16-02

CM0916A.D TO14S.M Mon Sep 16 11:40:10 2002

Quantitation Report

Data File : D:\HPCHEM\1\DATA02\M091602A\CM0916A.D Vial: 2
Acq On : 16 Sep 2002 10:44 Operator: LAD
Sample : VSTD250\ DAILY CALIBRATION CHECK Inst : MARILYN
Misc : 250ng Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 16 11:16 2002 Quant Results File: TO14S.RES

Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Sep 09 10:13:29 2002
Response via : Initial Calibration
DataAcq Meth : TO14S
IS QA File : D:\HPCHEM\1\DATA02\M0909A\CM0909A.D (9 Sep 2002 9:34)

original

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) Bromochloromethane IS#1	11.07	128	412119	250.00	ng	-0.02 93.27%
26) 1,4-Difluorobenzene IS#2	12.99	114	1826554	250.00	ng	-0.02 96.57%
36) Chlorobenzene-d5 IS#3	20.23	117	1250080	250.00	ng	-0.02 95.36%

System Monitoring Compounds

23) 1,2-Dichloroethane d4 SURR	12.19	65	465544	253.41	ng	-0.03
Spiked Amount 250.000 Range 61 - 140 Recovery = 101.36%						
32) Toluene-d8 SURR#2	16.50	98	1317163	244.30	ng	-0.02
Spiked Amount 250.000 Range 90 - 109 Recovery = 97.72%						
46) 4-Bromofluorobenzene SURR#	23.35	95	967848	250.38	ng	-0.02
Spiked Amount 250.000 Range 87 - 112 Recovery = 100.15%						

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.63	85	347449	259.46	ng	96
3) Dichlorotetrafluoroethane	3.83	135	367670	185.71	ng	# 46
4) Chloromethane	4.10	50	344124	277.41	ng	# 90
5) Vinyl chloride	4.30	62	317013	292.31	ng	# 85
6) Bromomethane	5.12	94	290505	281.78	ng	# 96
7) Chloroethane	5.25	64	161158	209.68	ng	# 85
8) Trichlorofluoromethane	5.73	101	1077964	260.70	ng	100
9) 1,1,2-Trichlorotrifluoroet	6.52	151	1003789	281.16	ng	80
10) 1,1-Dichloroethene	6.68	96	495267	271.40	ng	87
12) Methylene chloride	7.78	49	593118	272.12	ng	93
13) Carbon disulfide	7.89	76	1340904	269.03	ng	100
14) methyl-Tert-Butyl Ether	8.06	73	934449	265.49	ng	99
15) trans-1,2-Dichloroethene	8.35	96	584050	277.33	ng	90
16) n-Hexane	8.46	57	513172	247.71	ng	# 1
17) 1,1-Dichloroethane	9.17	63	935079	276.35	ng	99
18) cis-1,2-Dichloroethene	10.39	61	759646	280.17	ng	89
19) Chloroform	10.71	83	1137792	281.27	ng	98
20) Isooctane	11.67	57	1743775	261.36	ng	94
21) 1,1,1-Trichloroethane	11.57	97	1022841	277.57	ng	90
22) Carbon tetrachloride	12.12	117	1042489	279.13	ng	99
24) 1,2-Dichloroethane	12.39	62	543453	271.18	ng	# 96
25) 1,2-Dibromoethane	19.28	107	980276	277.75	ng	99
27) Benzene	12.47	78	1359697	264.76	ng	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA02\M091602A\CM0916A.D Vial: 2
Acq On : 16 Sep 2002 10:44 Operator: LAD
Sample : VSTD250\ DAILY CALIBRATION CHECK Inst : MARILYN
Misc : 250ng Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 16 11:16 2002 Quant Results File: TO14S.RES

Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Sep 09 10:13:29 2002
Response via : Initial Calibration
DataAcq Meth : TO14S

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
28)	Trichloroethene	13.77	130	786663	269.70 ng		9
29)	1,2-Dichloropropane	14.14	63	571542	263.58 ng		9
30)	Bromodichloromethane	14.69	83	1309491	265.64 ng		9
31)	cis-1,3-Dichloropropene	15.88	75	858990	260.79 ng		9
33)	Toluene	16.69	92	877415	269.49 ng		9
34)	trans-1,3-Dichloropropene	17.05	75	718423	258.90 ng		9
35)	1,1,2-Trichloroethane	17.45	97	568694	263.69 ng		9
37)	Tetrachloroethene	18.29	164	726693	266.00 ng		9
38)	Dibromochloromethane	18.77	127	966822	266.15 ng	#	9
39)	Chlorobenzene	20.32	112	1185240	269.39 ng		9
40)	Ethylbenzene	20.43	106	461807	267.59 ng		9
41)	m,p-Xylene	20.62	106	1144287	544.06 ng		9
42)	o-Xylene	21.77	106	533746	267.62 ng		9
43)	Styrene	21.84	104	903515	268.01 ng		9
44)	Bromoform	22.76	173	1033109	270.35 ng		1(
45)	1,1,2,2-Tetrachloroethane	23.10	83	903625	276.98 ng		9
47)	1,4-Dichloro-2-butene	22.76	75	196990	256.92 ng		9
48)	4-Ethyltoluene	24.03	105	1303650	260.88 ng		9
49)	1,3,5-Trimethylbenzene	24.03	105	1303650	339.09 ng	#	(
50)	2-Chlorotoluene	24.25	91	1344569	267.31 ng		9
51)	1,2,4-Trimethylbenzene	25.12	105	1086782	281.05 ng		9
52)	1,3-Dichlorobenzene	26.27	146	876924	269.52 ng		9
53)	1,4-Dichlorobenzene	26.27	146	920973	274.64 ng	#	9
54)	1,2-Dichlorobenzene	27.04	146	854904	282.68 ng	#	9
55)	1,2,4-Trichlorobenzene	30.16	180	583209	282.85 ng		9
56)	Napthalene	30.69	128	781966	267.55 ng	#	9
57)	Hexachlorobutadiene	30.41	225	446860	273.93 ng		9

(#) = qualifier out of range (m) = manual integration
CM0916A.D TO14S.M Mon Sep 16 11:16:29 2002 Page

Data File : D:\HPCHEM\1\DATA02\M091602A\MA164ABK.D
Acq On : 16 Sep 2002 11:22
Sample : VBLKMA\ DAILY METHOD BLANK
Misc : Pi/Pf=1
MS Integration Params: rteint.p
Quant Time: Sep 16 12:49 2002

Vial: 3
Operator: LAD
Inst : MARILYN
Multiplr: 0.00

Quant Results File: TO14S.RES

Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Sep 16 11:40:26 2002
Response via : Initial Calibration
DataAcq Meth : TO14S
IS QA File : D:\HPCHEM\1\DATA02\M091602A\CM0916A.D (16 Sep 2002 10:44)

9-16-02

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) Bromochloromethane IS#1	11.07	128	433169	250.00 ng	0.00 105.11%
26) 1,4-Difluorobenzene IS#2	12.99	114	1812868	250.00 ng	0.00 99.25%
36) Chlorobenzene-d5 IS#3	20.23	117	1260611	250.00 ng	0.00 100.84%

System Monitoring Compounds

23) 1,2-Dichloroethane d4 SURR	12.20	65	483646	250.47 ng	0.02
Spiked Amount 250.000	Range 61 - 140		Recovery = 100.19%		
32) Toluene-d8 SURR#2	16.50	98	1322241	247.09 ng	0.00
Spiked Amount 250.000	Range 90 - 109		Recovery = 98.84%		
46) 4-Bromofluorobenzene SURR#	23.35	95	982100	251.95 ng	0.00
Spiked Amount 250.000	Range 87 - 112		Recovery = 100.78%		

Target Compounds

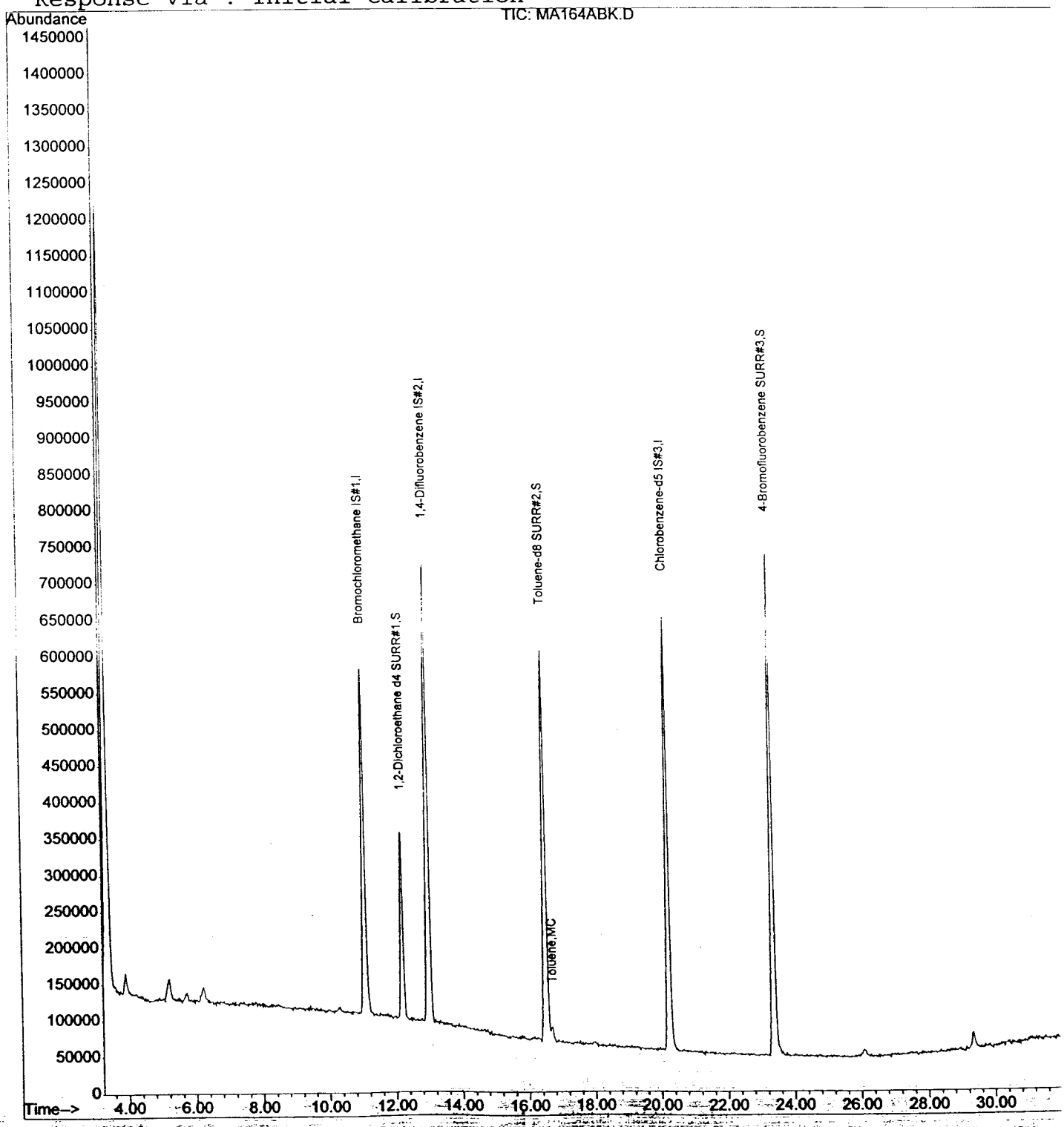
					Qvalue
33) Toluene	16.70	92	32078	0.02 ng # <RL	88

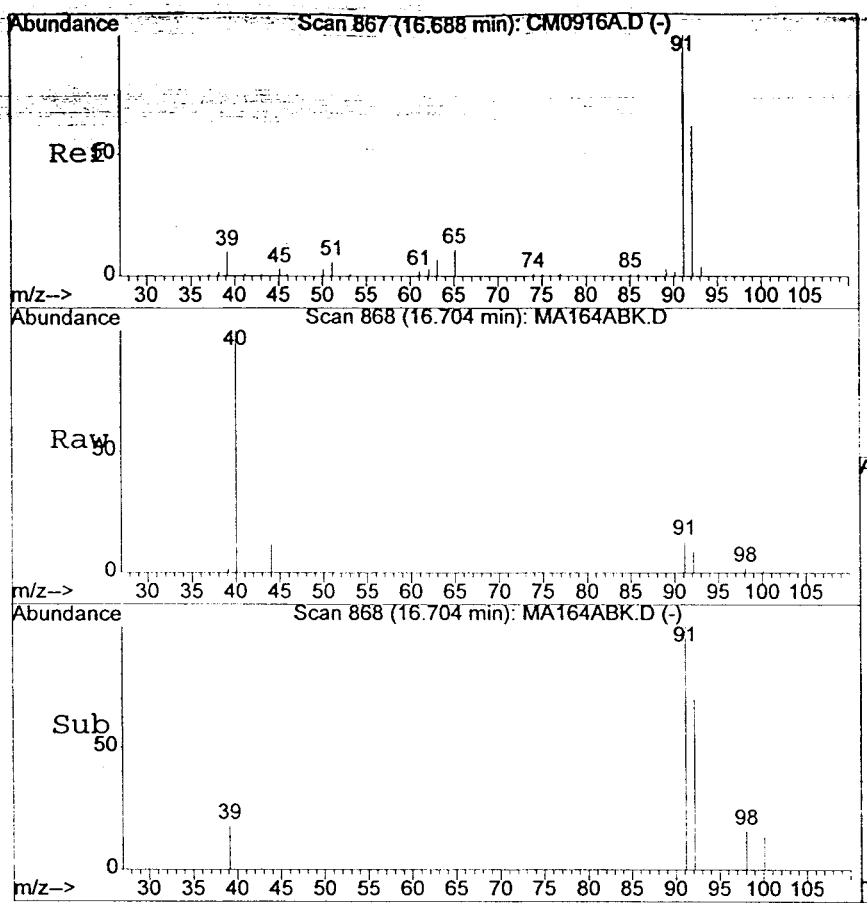
(#) = qualifier out of range (m) = manual integration
MA164ABK.D TO14S.M Mon Sep 16 12:50:16 2002

Quantitation Report

Data File : D:\HPCHEM\1\DATA02\M091602A\MA164ABK.D Vial: 3
Acq On : 16 Sep 2002 11:22 Operator: LAD
Sample : VBLKMA\ DAILY METHOD BLANK Inst : MARILYN
Misc : Pi/Pf=1 Multiplr: 0.00
MS Integration Params: rteint.p
Quant Time: Sep 16 12:49 2002 Quant Results File: TO14S.RE

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Sep 16 11:40:26 2002
Response via : Initial Calibration

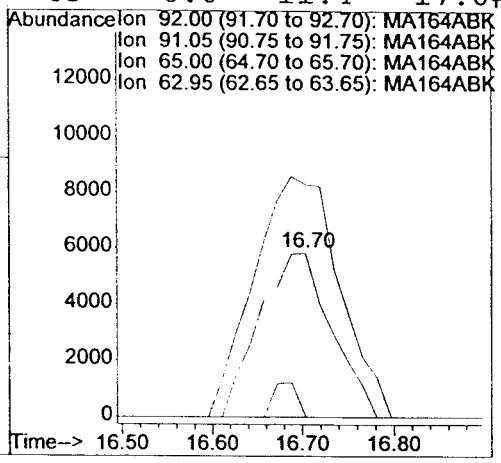




#33
Toluene
Concen: 0.02 ng
RT: 16.70 min Scan# 868
Delta R.T. 0.02 min
Lab File: MA164ABK.D
Acq: 16 Sep 2002 11:22

Tgt Ion: 92 Resp: 32078

Ion	Ratio	Lower	Upper
92	100		
91	174.8	132.1	198.1
65	7.1	16.6	25.0#
63	0.0	11.4	17.0#



MA164ABK.D TO14S.M Acq :16 Sep 2002 11:22
Sample = VBLKMA\ DAILY METHOD Misc = Pi/Pf=1

Quantitation Report

Data File : D:\HPCHEM\1\DATA02\M091602A\MA164ABK.D Vial: 3
Acq On : 16 Sep 2002 11:22 Operator: LAD
Sample : VBLKMA\ DAILY METHOD BLANK Inst : MARILYN
Misc : Pi/Pf=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 16 11:54 2002 Quant Results File: TO14S.RES

Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Sep 16 11:40:26 2002
Response via : Initial Calibration
DataAcq Meth : TO14S
IS QA File : D:\HPCHEM\1\DATA02\M091602A\CM0916A.D (16 Sep 2002 10:4

orig

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min Rcv(Ar
1) Bromochloromethane IS#1	11.07	128	433169	250.00	ng	0.0 105.11
26) 1,4-Difluorobenzene IS#2	12.99	114	1812868	250.00	ng	0.0 99.25
36) Chlorobenzene-d5 IS#3	20.23	117	1260611	250.00	ng	0.0 100.84

System Monitoring Compounds

23) 1,2-Dichloroethane d4 SURR	12.20	65	483646	250.47	ng	0.0
Spiked Amount 250.000	Range 61 - 140		Recovery = 100.19%			
32) Toluene-d8 SURR#2	16.50	98	1322241	247.09	ng	0.0
Spiked Amount 250.000	Range 90 - 109		Recovery = 98.84%			
46) 4-Bromofluorobenzene SURR#	23.35	95	982100	251.95	ng	0.0
Spiked Amount 250.000	Range 87 - 112		Recovery = 100.78%			

Target Compounds

						Qvalue
8) Trichlorofluoromethane	5.76	101	6559	1.51	ng	# 7
12) Methylene chloride	7.78	49	3427	1.50	ng	# 5
13) Carbon disulfide	7.87	76	996	0.19	ng	# 7
16) n-Hexane	8.46	57	5139	2.36	ng	#
20) Isooctane	11.77	57	999	0.14	ng	# 4
33) Toluene	16.70	92	32078	9.93	ng	# 8
56) Napthalene	30.69	128	4413	1.50	ng	# 6

(#) = qualifier out of range (m) = manual integration
MA164ABK.D TO14S.M Mon Sep 16 11:54:40 2002 Page

LCS Blank Summary Report

Data File : D:\HPCHEM\1\DATA02\M091602A\MA164LCS.D
Acq On : 16 Sep 2002 12:00
Sample : VLCSMA\ BATCH #164 LCS 250ng
Misc : Pi/Pf=1 2nd SOURCE
MS Integration Params: rteint.p
Matrix : WATER

Vial: 4
Operator: LAD
Inst : MARILYN
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Sep 16 11:40:26 2002
Response via : Multiple Level Calibration

		Compound Name	Conc	Added	Recv(%)	QC Range	Q
10)	MC	1,1-Dichloroethene	246.67	250.00	98.67	58 to 138%	[ ]
27)	M	Benzene	264.32	250.00	105.73	87 to 116%	[ ]
28)	M	Trichloroethene	264.87	250.00	105.95	85 to 116%	[ ]
33)	MC	Toluene	279.92	250.00	111.97	86 to 113%	[ ]
39)	MP	Chlorobenzene	271.41	250.00	108.56	88 to 111%	[ ]

Quantitation Report

Data File : D:\HPCHEM\1\DATA02\M091602A\MA164LCS.D Vial: 4
Acq On : 16 Sep 2002 12:00 Operator: LAD
Sample : VLCSMA\ BATCH #164 LCS 250ng Inst : MARILYN
Misc : Pi/Pf=1 2nd SOURCE Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 16 12:51 2002 Quant Results File: TO14S.RES

Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Sep 16 11:40:26 2002
Response via : Initial Calibration
DataAcq Meth : TO14S
IS QA File : D:\HPCHEM\1\DATA02\M091602A\CM0916A.D (16 Sep 2002 10:4

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Mir Rcv(Ar
1) Bromochloromethane IS#1	11.08	128	403462	250.00 ng	0.(97.9(
26) 1,4-Difluorobenzene IS#2	13.00	114	1740894	250.00 ng	0.(95.31
36) Chlorobenzene-d5 IS#3	20.24	117	1210599	250.00 ng	0.(96.84

System Monitoring Compounds

23) 1,2-Dichloroethane d4 SURR	12.19	65	467321	259.84 ng	0.(
Spiked Amount 250.000	Range 61 - 140		Recovery = 103.94%		
32) Toluene-d8 SURR#2	16.51	98	1286821	250.41 ng	0.(
Spiked Amount 250.000	Range 90 - 109		Recovery = 100.16%		
46) 4-Bromofluorobenzene SURR#	23.37	95	953633	254.75 ng	0.(
Spiked Amount 250.000	Range 87 - 112		Recovery = 101.90%		

Target Compounds

						Qvalue
10) 1,1-Dichloroethene	6.88	96	440673	246.67 ng		8
27) Benzene	12.47	78	1293802	264.32 ng		9
28) Trichloroethene	13.79	130	736336	264.87 ng		9
33) Toluene	16.70	92	868622	279.92 ng		9
39) Chlorobenzene	20.34	112	1156406	271.41 ng	#	8

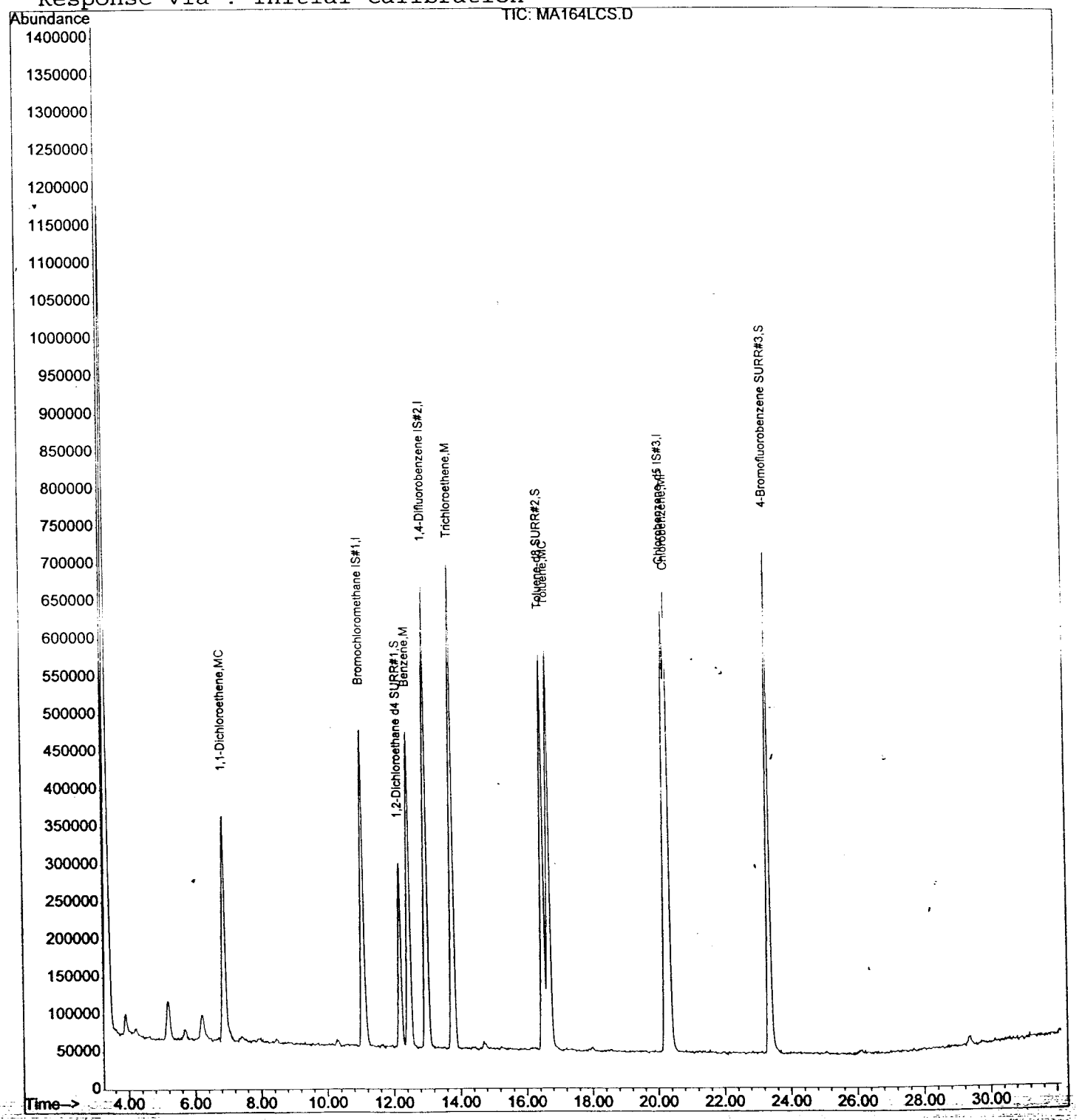
(#) = qualifier out of range (m) = manual integration
MA164LCS.D TO14S.M Mon Sep 16 12:51:16 2002 Page

Quantitation Report

Data File : D:\HPCHEM\1\DATA02\M091602A\MA164LCS.D
Acq On : 16 Sep 2002 12:00
Sample : VLCSMA\ BATCH #164 LCS 250ng
Misc : Pi/Pf=1 2nd SOURCE
MS Integration Params: rteint.p
Quant Time: Sep 16 12:51 2002

Vial: 4
Operator: LAD
Inst : MARILYN
Multiplr: 1.00
Quant Results File: TO14S.RES

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Sep 16 11:40:26 2002
Response via : Initial Calibration



Quantitation Report

Data File : D:\HPCHEM\1\DATA02\M091602A\92571.D Vial: 9
Acq On : 16 Sep 2002 16:07 Operator: LAD
Sample : OS=09257-1 BT=A164 RLF=TO14 Inst : MARILYN
Misc : AIR Pi/Pf=2.33 DF=1 500ml UN=mg/m3 Multiplr: 0.00
MS Integration Params: rteint.p
Quant Time: Sep 16 16:42 2002 Quant Results File: TO14S.RES

Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Sep 16 11:40:26 2002
Response via : Initial Calibration
DataAcq Meth : TO14S
IS QA File : D:\HPCHEM\1\DATA02\M091602A\CM0916A.D (16 Sep 2002 10:44)

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) Bromochloromethane IS#1	11.06	128	353929	250.00	ng	0.00 85.88%
26) 1,4-Difluorobenzene IS#2	12.98	114	1745057	250.00	ng	0.00 95.54%
36) Chlorobenzene-d5 IS#3	20.22	117	1202470	250.00	ng	0.00 96.19%

System Monitoring Compounds

23) 1,2-Dichloroethane d4 SURR	12.18	65	418940	265.54	ng	0.00
Spiked Amount 250.000	Range 61 - 140		Recovery = 106.22%			
32) Toluene-d8 SURR#2	16.49	98	1305490	253.44	ng	0.00
Spiked Amount 250.000	Range 90 - 109		Recovery = 101.38%			
46) 4-Bromofluorobenzene SURR#	23.35	95	897179	241.29	ng	0.00
Spiked Amount 250.000	Range 87 - 112		Recovery = 96.52%			

Target Compounds

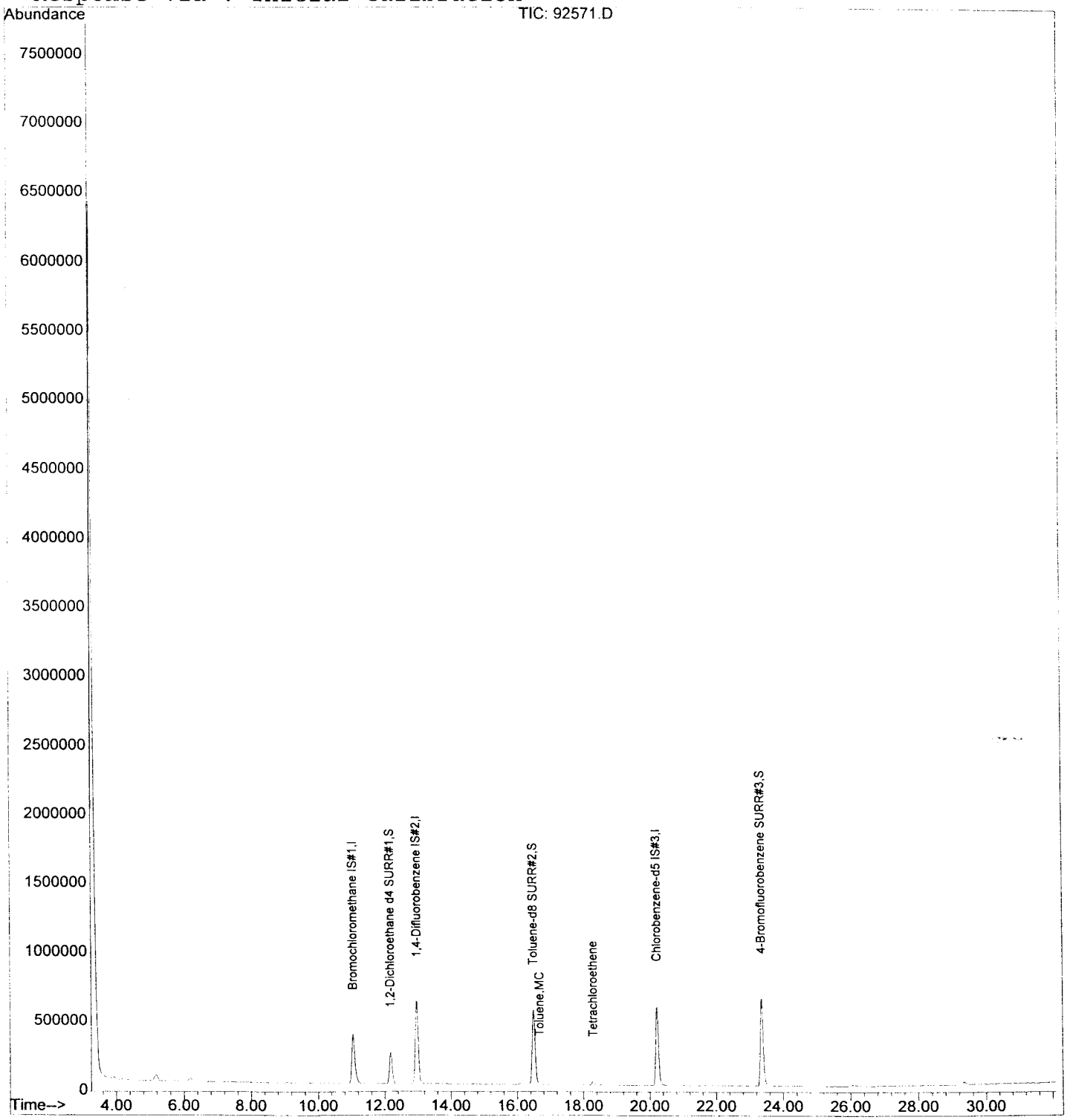
						Qvalue
33) Toluene	16.68	92	39424	0.06	ng ✓ #	95
37) Tetrachloroethene	18.29	164	20899	0.04	ng <MDL	87

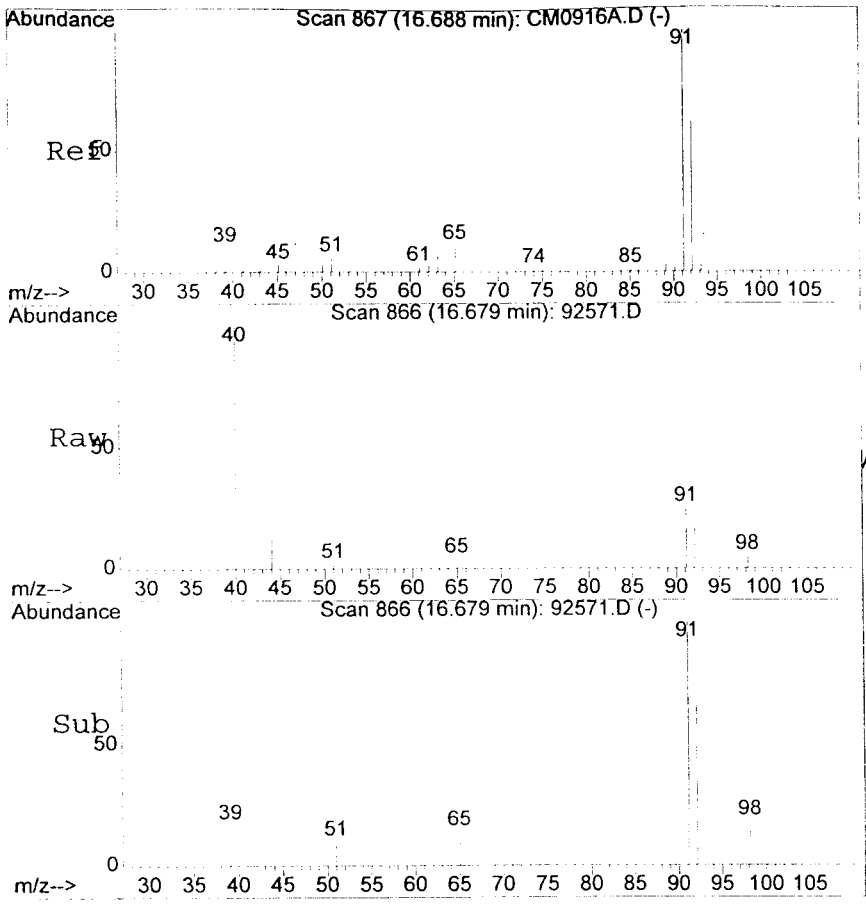
(#) = qualifier out of range (m) = manual integration
92571.D TO14S.M Mon Sep 16 16:43:55 2002

Quantitation Report

Data File : D:\HPCHEM\1\DATA02\M091602A\92571.D Vial: 9
Acq On : 16 Sep 2002 16:07 Operator: LAD
Sample : OS=09257-1 BT=A164 RLF=TO14 Inst : MARILYN
Misc : AIR Pi/Pf=2.33 DF=1 500ml UN=mg/m3 Multiplr: 0.00
MS Integration Params: rteint.p
Quant Time: Sep 16 16:42 2002 Quant Results File: TO14S.RES

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Sep 16 11:40:26 2002
Response via : Initial Calibration

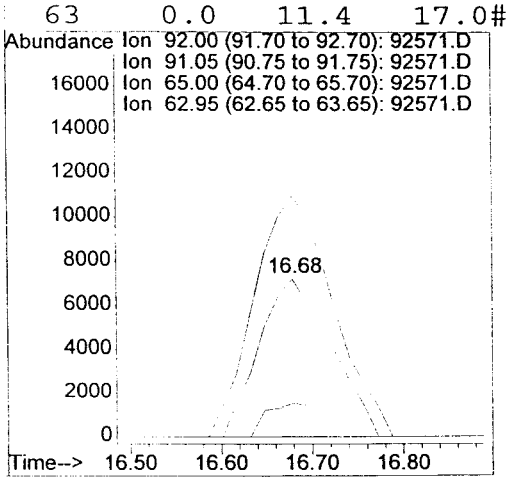


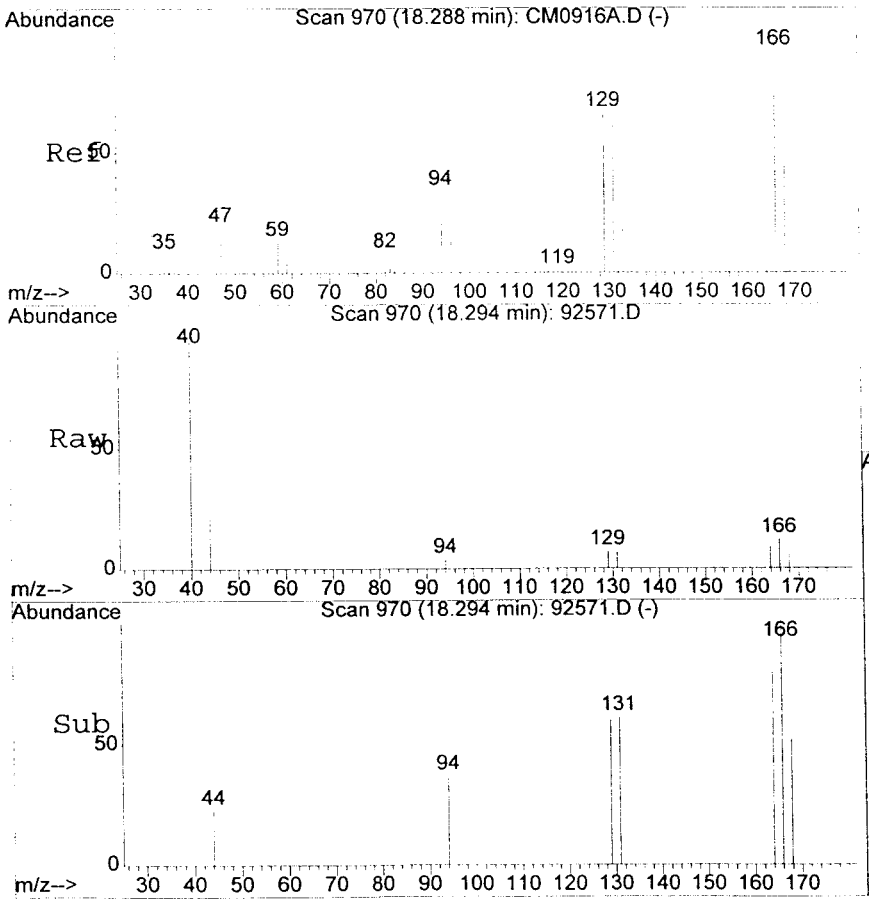


#33
Toluene
Concen: 0.06 ng
RT: 16.68 min Scan# 866
Delta R.T. -0.01 min
Lab File: 92571.D
Acq: 16 Sep 2002 16:07

Tgt Ion: 92 Resp: 39424

Ion	Ratio	Lower	Upper
92	100		
91	166.8	132.1	198.1
65	15.5	16.6	25.0#
63	0.0	11.4	17.0#

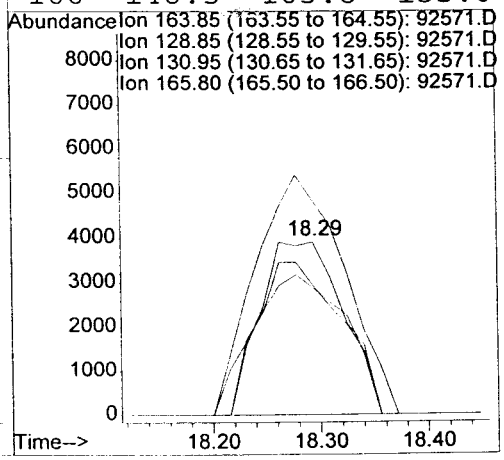




#37
Tetrachloroethene
Concen: 0.04 ng
RT: 18.29 min Scan# 970
Delta R.T. 0.01 min
Lab File: 92571.D
Acq: 16 Sep 2002 16:07

Tgt Ion:164 Resp: 20899

Ion	Ratio	Lower	Upper
164	100		
129	90.2	80.3	120.5
131	88.2	78.6	118.0
166	148.5	103.8	155.8



92571.D TO14S.M Acq :16 Sep 2002 16:07
Sample = OS=09257-1 BT=A164 R Misc = AIR Pi/Pf=2.33 DF=1 500ml UN=mg/m3

Quantitation Report

Data File : D:\HPCHEM\1\DATA02\M091602A\92571.D
Acq On : 16 Sep 2002 16:07
Sample : OS=09257-1 BT=A164 RLF=TO14
Misc : AIR Pi/Pf=2.33 DF=1 500ml UN=mg/m3
MS Integration Params: rteint.p
Quant Time: Sep 16 16:39 2002

Vial: 9
Operator: LAD
Inst : MARILYN
Multiplr: 1.00

0.00466

Quant Results File: TO14S.RES

Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Sep 16 11:40:26 2002
Response via : Initial Calibration
DataAcq Meth : TO14S
IS QA File : D:\HPCHEM\1\DATA02\M091602A\CM0916A.D (16 Sep 2002 10:44)

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) Bromochloromethane IS#1	11.06	128	353929	250.00 ng	0.00 85.88%
26) 1,4-Difluorobenzene IS#2	12.98	114	1745057	250.00 ng	0.00 95.54%
36) Chlorobenzene-d5 IS#3	20.22	117	1202470	250.00 ng	0.00 96.19%

System Monitoring Compounds

23) 1,2-Dichloroethane d4 SURR	12.18	65	418940	265.54 ng	0.00
Spiked Amount 250.000	Range 61 - 140		Recovery = 106.22%		
32) Toluene-d8 SURR#2	16.49	98	1305490	253.44 ng	0.00
Spiked Amount 250.000	Range 90 - 109		Recovery = 101.38%		
46) 4-Bromofluorobenzene SURR#	23.35	95	897179	241.29 ng	0.00
Spiked Amount 250.000	Range 87 - 112		Recovery = 96.52%		

Target Compounds

					Qvalue	
8) Trichlorofluoromethane	5.72	101	5381	1.52 ng	#	17
12) Methylene chloride	7.74	49	5659	3.02 ng	#	63
13) Carbon disulfide	7.84	76	3570	0.83 ng	#	74
16) n-Hexane	8.42	57	6915	3.89 ng	#	1
20) Isooctane	11.65	57	3025	0.53 ng	#	57
33) Toluene	16.68	92	39424	12.67 ng	#	95
37) Tetrachloroethene	18.29	164	20899	7.95 ng		87

(#) = qualifier out of range (m) = manual integration

NEAT AND PURCHASED STOCK SOLUTIONS LOG BOOK

COMPOUND I.D. (SOL. NAME)	LOT #	SUPPLIER	PURITY (CONC.)	EXPIRATION DATE	# Ampules ~~DATE OPENED~~	LOG I.D.
8260 IS STD	A014811	Restek	2500 µg/ml	2/2003	10	8-VN 1-1
MTBE	A014918	Restek	2000 µg/ml	6/2003	2	8-VN 1-2
Iodomethane	LA83933	Supelco	2000 µg/ml	6/2000	2	8-VN 1-3
Carbon Disulfide	LA8560	Supelco	5000 µg/ml	10/2002	2	8-VN 1-4
8240 Matrix Spike	LA84166	Supelco	2500 µg/ml	7/2002	5	8-VN 1-5
APPIX-A Custom Mix	81859 LA77217	Supelco	2000-6000 µg/ml	3/2000	1	8-VN 1-6
APPIX-B Custom Mix	LA81858	Supelco	2000 µg/ml	3/2000	1	8-VN 1-7
BP Short List std	LA87431	Supelco	5000 µg/ml	1/2001	3	8-VN 1-8
MTBE	LA83423	Supelco	2000 µg/ml	6/2002	1	8-VN 1-9
8260 Surr	A014215	Restek	2500 µg/ml	12/2002	10	8-VN 1-10
Chloroprene	P0587	Ultra	100 µg/ml	05/2001	1	8-VN 1-11
Isopropyl ether	LA87616	Supelco	5000 µg/ml	1/17/2001	3	8-VN 1-12
Equity 8260 keytone	LA86031	Supelco	2000 µg/ml	12/2001	6	8-VN 1-13
Equity Iodomethane	LA88750	Supelco	2000 µg/ml	5/2001	2	8-VN 1-14
Vinyl Acetate	A016259	Restek	10,000 µg/ml	4/2001	5	8-VN 1-15
Custom keytone Mix	A016258	Restek	2000/1000 µg/ml	4/2001	5	8-VN 1-16
8260 Matrix Custom	LA89925	Supelco	2000/1000	4/22/2001	3	8-VN 1-17
8260 Volatiles Kit	Various	Restek	2000/mix	10/2001 ← earliest	1	8-VN 1-18
MTBE	A015850	Restek	2000	10/2003	1	8-VN 1-19
Volatile Mix 4	LA84440	Supelco	2000	7/2001	1	8-VN 1-20
Carbon Disulfide	LA88605	Supelco	5000	10/2002	1	8-VN 1-21
1&2-Methyl-Naphthalene	LA90443	Supelco	2000	5/10/2001	3	8-VN 1-22
Isopropyl Ether	A016295	Restek	2000	5/12/2001	3	8-VN 1-23
1&2-Methyl Naphthalene	A016464	Restek	4000	5/15/2001	5	8-VN 1-24
Volatile Mix 6	LA89847	Supelco	2000	7/2001	2	8-VN 1-25
Tol4 Custom Mix	LA90724	Supelco	2500 µg/ml	7/1/2001	4	8-VN 1-26
VOA Short list matrix spike	LA89933	Supelco	1000 µg/ml	5/1/2003	5	8-VN 1-27

* To be used if neat standard is to be kept after container is opened.

NEAT AND PURCHASED STOCK SOLUTIONS LOG BOOK

COMPOUND I.D. (SOL. NAME)	LOT #	SUPPLIER	PURITY (CONC.)	RC'D DATE	EXP. DATE	# of AMPULES	LOG I.D.
Iso-octane	B0110234	Accu STD	2000 µg/ml	11/16/01	12/31/02	5	8-VN 4-
Custom 8260 short list	LA-95178	Supelco	5000 µg/ml	11/20/01	11/20/02	3	8-VN 4-
Dichloro fluoroethane		Pall Memb.	99+ %				8-VN 4-
ASAHIKLIN-AK-225	NA	Pall Membrane	99+ %	12/18/01	12/18/02	1	8-VN 4-
Custom TO14 STD. MIX	LB81787	Supelco	2500 µg/ml	1/7/02	1/2/03	4	8-VN 4-
8260 IS	A21640	Restek	2500 µg/ml	3/7/02	4/05	10	8-VN 4-
Vol's Mix 6	LB02915	Supelco	2000 µg/ml	3/21/02	5/03	3	8-VN 4-
Freon 113	LB02616	Supelco	2000 µg/ml	3/21/02	2/05	2	8-VN 4-
502/524 Mix	LB02048	Supelco	2000 µg/ml	3/21/02	5/04	3	8-VN 4-
8260 Keytone	LA97498	Supelco	2000-2000 µg/ml	3/21/02	9/03	3	8-VN 4-
Iodomethane	LB00103	Supelco	2000 µg/ml	3/21/02	12/02	3	8-VN 4-
8260 Kit	VARIOUS	Restek	Various	3/21/02	Various	2	8-VN 4-
Freon 113	A021343	Restek	2000 µg/ml	3/21/02	3/03	3	8-VN 4-
VOA IS (TO14)	A018019	Restek	2500 µg/ml	3/21/02	3/05	3	8-VN 4 1
VOA Surr (TO14)	A021561	Restek	2500 µg/ml	3/21/02	4/06	2	8-VN 4-
8260 Keytone	LB03079	Supelco	2000-2000 µg/ml	3/22	8/04	3	8-VN 4-
Custom Mix	LB03455	Supelco	2000-4000 µg/ml	3/25	3/25/03	3	8-VN 4-
1,2-Methyl Naphthalene	H-001500-MIX	Accstd	1000 µg/ml	6/6/02	6/6/03	2	8-VN 4-
8260 Surr. Mix	A022661	Restek	2500 µg/ml	6/12/02	5/05	10	8-VN 4-
IPE	A019529	Restek	1000 µg/ml	7/8/02	5/04	3	-VN 4-
VOA Matrix Spike Mix (Short list - TO14)	LA98398	Supelco	1000 µg/ml	7/23/02	7/1/04	1	8-VN 4-
Custom TO14 2nd Source (Full list)	520100049	Accu Standard	2000 µg/ml	7/24/02	7/22/03	1	8-VN 4-
							-VN
							-VN
							-VN
							-VN
							-VN

GC/MS WORKING STANDARDS LOG

ug/ml = ppm
ug/l = ppb

Sol. Name: Tol4 IS/Surr
Date: 4-11-02
Analyst: BDH

Standard I.D.: 8 -MSW34-1
Location: 6C/MS Freezer MS018
Solvent: Methanol

Parent I.D.	Lot #	Exp. Date	Parent Conc. (ppm) ug/ml	Aliquot (ul)	Final Volume (ml)	Final Conc.
8-VN4-14 (IS)	A018019	3/05	2500 ug/ml	500 uls	50 mls	25 ppm
8-VN4-15 (Surr)	A021561	4/06	↓	↓	↓	↓

Comments: expires 10-11-02

Sol. Name: IS/SURR
Date: 4-15-02
Analyst: MC

Standard I.D.: 8 -MSW34-2
Location: GC/MS Freezer MS018
Solvent: MeOH Lot V36E40

Parent I.D.	Lot #	Exp. Date	Parent Conc. (ppm) ug/ml	Aliquot (ul)	Final Volume (ml)	Final Conc.
8-VV2-21 (IS)	A018631	06/04	2500 ug/ml	500 ul	50 ml	25 ug/ml
8-VV3-11 (Surr)	A019474	08/04	2500 ug/ml	500 ul	50 ml	25 ug/ml

Comments: Expires 10-15-02

Sol. Name: Matrix Spike
Date: 4/16/02
Analyst: DG

Standard I.D.: 8 -MSW34-3
Location: MS018
Solvent: MeOH / V30E40

Parent I.D.	Lot #	Exp. Date	Parent Conc. (ppm) ug/ml	Aliquot (ul)	Final Volume (ml)	Final Conc.
Custom Mix 8-VN4-17	LQ03455	3/03	2000	625	50	25 ug/ml
Tetrachloroethane 8-VN4-11	LB00103	12/02	↓	↓	↓	↓
Mix 6 8-VN-3-14	LA99456	11/02				
502/524 8-VN-3-15	LA98534	10/03				
Freon 113 8-VN-3-13	LA98546	6/04				
Keytones 8-VN-3-16	LA97408	9/30/02		1250		

Comments: Expires 9/30/02

ug/ml = ppm
ug/l = ppb
Sol. Name: IS/SURR
Date: 6-26-02
Analyst: WD

Standard I.D.: 8 -MSW36-1
Location: GC/MS Freezer MS01
Solvent: MeOH Lot V30E40

Parent I.D.	Lot #	Exp. Date	Parent Conc. (ppm) ug/ml	Aliquot (ul)	Final Volume (ml)	Final Conc.
8-VN-3-12 (IS)	A020253	11/04	2500 ug/ml	500 ul	50 ml	25 ug/ml
8-VN-3-11 (SURR)	A019474	8/04	2500 ug/ml	500 ul	50 ml	25 ug/ml

Comments: Expires 12-26-02

Sol. Name: AIR SPIKE
Date: 7-8-02
Analyst: BDH

Standard I.D.: 8 -MSW36-2
Location: GC/MS Freezer MS018
Solvent: MeOH Lot V30E40

Parent I.D.	Lot #	Exp. Date	Parent Conc. (ppm) ug/ml	Aliquot (ul)	Final Volume (ml)	Final Conc.
8-VN1-27	LA89933	5/1/2003	1000	625	25 mls	25 ppm

Comments: expires 1/8/03

Sol. Name: IS/SURR
Date: 7/25/02
Analyst: DO

Standard I.D.: 8 -MSW36-~~2~~ 3 AY7
Location: Katarina's Fridge
Solvent: MeOH V30E40

Parent I.D.	Lot #	Exp. Date	Parent Conc. (ppm) ug/ml	Aliquot (ul)	Final Volume (ml)	Final Conc.
IS 8-VN-3-12	A020253	11/04	2500	500	10	125 ug/ml
SURR 8-VN-3-11	A019474	8/04	↓	↓	↓	

Comments:

GC/MS WORKING STANDARDS LOG

ug/ml = ppm
ug/l = ppb
Sol. Name: Tol4 Calibration Std.
Date: 8-5-02
Analyst: BOH

Standard I.D.: 8 -MSW37 - 1
Location: MS018-STO freezer
Solvent: Methanol Lot V30E40

Parent I.D.	Lot #	Exp. Date	Parent Conc. (ppm) ug/ml	Aliquot (ul)	Final Volume (ml)	Final Conc.
8-VN-4-5	LB-01780	1/7/03	2500 µg/ml	250 µl	25 ml	25 µg/ml

Comments: expires 3/5/03

Sol. Name:
Date:
Analyst:

Standard I.D.: -MSW -
Location:
Solvent:

Parent I.D.	Lot #	Exp. Date	Parent Conc. (ppm) ug/ml	Aliquot (ul)	Final Volume (ml)	Final Conc.

Comments:

Sol. Name:
Date:
Analyst:

Standard I.D.: -MSW -
Location:
Solvent:

Parent I.D.	Lot #	Exp. Date	Parent Conc. (ppm) ug/ml	Aliquot (ul)	Final Volume (ml)	Final Conc.

Comments:

Appendix D

Laboratory Analytical Reports for Groundwater Samples (provided on CD)

PEL Laboratories, Inc.

Customer Name:	CH2M Hill
Date and Time Received:	9/14/2002 10:45:00 AM
Date Reported:	9/27/2002
Laboratory Submission Number/SDG:	2209102
Project:	NAS Cecil Field 103rd Street

Samples: The submission consisted of 14 samples with sample identification shown in the attached data tables.

Tests: The samples were analyzed for the methods listed on the attached table of contents.

Results: See the attached data tables for results.

Distribution of Report to:

CH2M Hill
Attn: Tatiana Romanova
Phone: W 770-604-9182
F 770-604-9282

Respectfully Submitted,

Brian Spann
Laboratory Manager
PEL Laboratories, Inc.

Note: Submitted material will be retained for 30 days unless otherwise requested by client or consumed in analysis. PEL letters and reports are for the exclusive use of the client to whom they are addressed. Our Letters and reports apply to the sample tested and are n necessarily indicative of the qualities of apparently identical or similar materials

4420 Pendola Point Road • Tampa, Florida 33619
(813)247-2805 • FAX: (813)248-1537
Website: www.pelab.com

Organics **1**
METHOD 8260 GC/ MS VOLATILE ORGANICS 4
Sample Data 8
QC Summary 45
Standards Data 60
METHOD 8310 HPLC PAH ORGANICS 69
Sample Data 73
QC Summary 85
Standards Data 94
METHOD FL-PRO GC FL- PRO ORGANICS 104
Sample Data 108
QC Summary 120
Standards Data 129

Inorganics **142**
METALS DATA PACKAGE TOTALS 145
Sample Data 149
QC Summary 161

Chain of Custody Documentation **181**

Addendum **187**
Raw Data Method 8260 193
Raw Data Method 8310 702
Raw Data Method FLPRO 809
Raw Data Method 6010 879

Cross-Reference sheet for SDG 2209102-Cecil Field

	SDG	FieldID	SampleType	LabSampleID	SampleDescription
Cecil Field	2209102	01Q30228	N	220910201	062-SMW01-Q3-02-28
Cecil Field	2209102	02Q30228	N	220910202	062-SMW02-Q3-02-28
Cecil Field	2209102	03Q30228	N	220910203	062-SMW03-Q3-02-28
Cecil Field	2209102	04Q30228	N	220910204	062-SMW04-Q3-02-28
Cecil Field	2209102	05Q30228	N	220910205	062-SMW05-Q3-02-28
Cecil Field	2209102	06Q30228	N	220910206	062-SMW06-Q3-02-28
Cecil Field	2209102	07Q30228	N	220910207	062-SMW07-Q3-02-28
Cecil Field	2209102	092502BLKA32	MB	092502BLKA32	092502BLKA32
Cecil Field	2209102	092502LCSA31	BS	092502LCSA31	092502LCSA31
Cecil Field	2209102	10Q30228	N	220910208	062-SMW10-Q3-02-28
Cecil Field	2209102	11Q30228	N	220910209	062-SMW11-Q3-02-28
Cecil Field	2209102	11Q30228MS	MS	220910210	062-SMW11-Q3-02-28
Cecil Field	2209102	11Q30228SD	SD	220910211	062-SMW11-Q3-02-28
Cecil Field	2209102	81041BLK	MB	81041	81041BLK
Cecil Field	2209102	81042LCS	BS	81042	81042LCS
Cecil Field	2209102	91602BLK01	MB	80541	91602BLK01
Cecil Field	2209102	91602LCS01	BS	80542	91602LCS01
Cecil Field	2209102	91702BLK01	MB	80642	91702BLK01
Cecil Field	2209102	91702LCS01	BS	80643	91702LCS01
Cecil Field	2209102	DUPQ30228	N	220910212	062-DUP-Q3-02-28
Cecil Field	2209102	EQBQ30228	N	220910213	062-EQB-Q3-02-28
Cecil Field	2209102	TBQ30228	TB	220910214	062-TB-Q3-02-28

Organics

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Organic Data Qualifiers

U Indicates the analyte was analyzed for but not detected. The number adjacent to the "U" qualifier indicates the reporting limit for that analyte. The reporting limit can vary from sample to sample depending on dilution factors or the percent moisture adjustment when indicated.

J Indicates estimated value. It is used when the data indicates the presence of an analyte above the method detection limit (MDL) yet lower than the reporting limit.

B Indicates the analyte was found in the associated blank as well as in the sample. The notation indicates possible contamination of the sample.

E Indicates the value reported is above the highest calibration standard for that analyte. The sample should be analyzed at an appropriate dilution. "E" qualified values are estimations and the diluted result may be reported on another Form 1.

D Indicates the analyte has been identified in a dilution reanalysis. "D" qualifiers are used for samples that have been analyzed at a lesser dilution than required for accurate quantitation.

C The "C" qualifier indicates the presence of this analyte has been confirmed by GC/MS analysis.

P This qualifier is used for pesticide / Aroclor target analytes where there is greater than 25% difference for the detected concentration between the two GC columns.

N This qualifier indicates presumptive evidence of an analyte. This qualifier is only used for tentatively identified compounds (TIC), where the identification is based on a mass spectral library search. It is applied to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the "N" qualifier is not used.

A This qualifier indicates that a TIC is a suspected aldol-condensation product.

X Data flagged as rejected by analyst utilizing analytical judgement.

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Organic Sample ID Qualifiers

The qualifiers that may be appended to the lab sample ID and/or the client sample ID for organic analysis are defined below:

DL Diluted reanalysis. Indicates that the results of the original analysis of the sample contained compounds that exceeded the calibration range. The sample was diluted and reanalyzed. May be followed by a digit to indicate multiple dilutions of the sample. The results of more than one diluted reanalysis may be reported.

R Reanalysis. The extract was reanalyzed without re-extraction. The "R" is not used if the sample was also re-extracted. May be followed by a digit to indicate multiple reanalysis of the sample at the same dilution.

RE Re-extracted. The extract was reanalyzed with re-extraction. May be followed by a digit to indicate multiple re-extraction of the same sample at the same dilution.

MS Matrix spike (may be followed by a digit to indicate multiple matrix within a sample set).

SD Matrix spike duplicate (may be followed by a digit to indicate multiple matrix spike duplicate within a sample set).

GC/MS VOLATILE ORGANICS

METHOD 8260

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CASE NARRATIVE
GC/MS VOLATILE ORGANICS

PEL Lab Reference No./SDG: 2209102

Client: CH2M Hill

I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody or a communication form is included in the addendum with this package.

II. HOLDING TIMES

A. Sample Preparation: All holding times were met.

B. Sample Analysis: All holding times were met.

III. METHODS

EPA 8260B/SW846

IV. PREPARATION

Water samples were prepared by SW846/5030B for EPA8260B volatiles analysis. All aspects of sample preparation proceeded without exception.

V. ANALYSIS

A. Calibration:

All acceptance criteria were met.

B. Blanks:

All acceptance criteria were met.

C. Surrogates:

All acceptance criteria were met.

D. Spikes:

1. Laboratory Control Spikes (LCS)

All acceptance criteria were met.

2. Matrix Spike/Matrix Spike Duplicate Samples (MS/SD)

A client requested MS/SD set was analyzed.
All percent recovery and relative percent difference (RPD) criteria were met with the exception of:
MS - 11Q30228MS was analyzed with the water samples on 09/25/02. The following analyte was recovered above criteria: 1,3,5-Trimethylbenzene at 115.5 % with criteria of (94-109). No further action is necessary. These results are within the PEL 10% limits. Samples coded accordingly.

CASE NARRATIVE
GC/MS VOLATILE ORGANICS

PEL Lab Reference No./SDG: 2209102

Client: CH2M Hill

E. Internal Standards:

All acceptance criteria were met.

F. Samples:

Sample analysis proceeded normally. Client specified reporting limits were used.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and PEL, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as, verified by the following signature.

SIGNED: _____ **DATE:** 09-26-02

VOLATILE ORGANIC CROSS REFERENCE TABLE

Lab Name: PEL Laboratories, Inc. Contract: NAS Cecil Field 103rd Street

Lab Code : PEL Case No. SAS No: SDG No.: 2209102

Method: 8260

EPA Sample No	Lab Sample ID
01Q30228	220910201
02Q30228	220910202
03Q30228	220910203
04Q30228	220910204
05Q30228	220910205
06Q30228	220910206
07Q30228	220910207
10Q30228	220910208
11Q30228	220910209
DUPQ30228	220910212
EQBQ30228	220910213
TBQ30228	220910214

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Sample Data

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VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

01Q30228

Lab Name: PEL Laboratories, Inc.

Contract: NAS Cecil Field 10

Lab Code : PEL Case No.

SAS No: SDG No.: 2209102

Matrix: WATER

Lab Sample ID: 220910201 Lab File ID: 10201.D

Sample wt/vol: 5 Units: ML

Date Received: 09/14/02

Concentrated Extract Volume: 5

Date Extracted:

Level:(low/med) LOW

Date Analyzed: 09/25/02 Time: 1512

PercentSolids: 0 decanted :

Dilution Factor: 1

Extraction: PURGETRAP

Station ID: CEF-103-SMW-0 Method: 8260

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
75-71-8	Dichlorodifluoromethane	1	U
74-87-3	Chloromethane	1	U
75-01-4	Vinyl chloride	1	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
75-69-4	Trichlorofluoromethane	1	U
75-35-4	1,1-Dichloroethene	1	U
75-09-2	Methylene chloride	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
594-20-7	2,2-Dichloropropane	0.43	U
156-59-2	cis-1,2-Dichloroethene	1	U
74-97-5	Bromochloromethane	1	U
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
71-43-2	Benzene	1	U
107-06-2	1,2-Dichloroethane	1	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
74-95-3	Dibromomethane	1	U
75-27-4	Bromodichloromethane	0.6	U
108-88-3	Toluene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
127-18-4	Tetrachloroethene	1	U
142-28-9	1,3-Dichloropropane	1	U
124-48-1	Dibromochloromethane	0.4	U

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VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name:	PEL Laboratories, Inc.	Contract:	NAS Cecil Field 10
			01Q30228
Lab Code :	PEL	Case No.	
SAS No:		SDG No.:	2209102
Matrix:	WATER	Lab Sample ID:	220910201
Lab File ID:	10201.D		
Sample wt/vol:	5	Units:	ML
Date Received:	09/14/02		
Concentrated Extract Volume:	5	Date Extracted:	
Level:(low/med)	LOW	Date Analyzed:	09/25/02
Time:	1512		
PercentSolids:	0	decanted :	
Dilution Factor:	1		
Extraction:	PURGETRAP	Station ID:	CEF-103-SMW-0
Method:	8260		
GPC Cleanup : (Y/N)		pH:	
Column(1):	DB-624	ID:	0.18 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
106-93-4	1,2-Dibromoethane(EDB)	0.25	U
108-90-7	Chlorobenzene	1	U
630-20-6	1,1,1,2-Tetrachloroethane	1	U
100-41-4	Ethylbenzene	1	U
511-39-00	p,m-Xylene	2	U
95-47-6	o-Xylene	1	U
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U
98-82-8	Isopropylbenzene (Cumene)	0.2	U
108-86-1	Bromobenzene	0.15	U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	U
96-18-4	1,2,3-Trichloropropane	0.46	U
103-65-1	n-Propylbenzene	0.19	U
95-49-8	2-Chlorotoluene	1	U
106-43-4	4-Chlorotoluene	1	U
108-67-8	1,3,5-Trimethylbenzene	1	U
98-06-6	tert-Butylbenzene	0.38	U
95-63-6	1,2,4-Trimethylbenzene	1	U
135-98-8	sec-Butylbenzene	0.21	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
99-87-6	4-Isopropyltoluene	0.19	U
104-51-8	n-Butylbenzene	0.35	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	0.56	U
120-82-1	1,2,4-Trichlorobenzene	1	U
87-68-3	Hexachlorobutadiene	0.46	U

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VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

01Q30228

Lab Name: PEL Laboratories, Inc. Contract: NAS Cecil Field 10

Lab Code : PEL Case No. SAS No: SDG No.: 2209102

Matrix: WATER Lab Sample ID: 220910201 Lab File ID: 10201.D

Sample wt/vol: 5 Units: ML Date Received: 09/14/02

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 09/25/02 Time: 1512

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID: CEF-103-SMW-0 Method: 8260

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
91-20-3	Naphthalene	1	U
87-61-6	1,2,3-Trichlorobenzene	1	U
1330-20-7	Xylene (total)	2	U

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Form I

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VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name:	PEL Laboratories, Inc.	Contract:	NAS Cecil Field 10
			02Q30228
Lab Code :	PEL Case No.	SAS No:	SDG No.: 2209102
Matrix:	WATER	Lab Sample ID:	220910202 Lab File ID: 10202.D
Sample wt/vol:	5 Units: ML	Date Received:	09/14/02
Concentrated Extract Volume:	5	Date Extracted:	
Level:(low/med)	LOW	Date Analyzed:	09/25/02 Time: 1223
PercentSolids:	0 decanted :	Dilution Factor:	1
Extraction:	PURGETRAP	Station ID:	CEF-103-SMW-0 Method: 8260
GPC Cleanup : (Y/N)	pH:		
Column(1):	DB-624 ID: 0.18 (mm)		
CONCENTRATION UNITS:	UG/L		

CAS NO.	*ANALYTE*	*RESULT*	*Q*
75-71-8	Dichlorodifluoromethane	1	U
74-87-3	Chloromethane	1	U
75-01-4	Vinyl chloride	1	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
75-69-4	Trichlorofluoromethane	1	U
75-35-4	1,1-Dichloroethene	1	U
75-09-2	Methylene chloride	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
594-20-7	2,2-Dichloropropane	0.43	U
156-59-2	cis-1,2-Dichloroethene	1	U
74-97-5	Bromochloromethane	1	U
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
71-43-2	Benzene	1	U
107-06-2	1,2-Dichloroethane	1	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
74-95-3	Dibromomethane	1	U
75-27-4	Bromodichloromethane	0.6	U
108-88-3	Toluene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
127-18-4	Tetrachloroethene	1	U
142-28-9	1,3-Dichloropropane	1	U
124-48-1	Dibromochloromethane	0.4	U

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VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name:	PEL Laboratories, Inc.	Contract:	NAS Cecil Field 10
			02Q30228
Lab Code :	PEL Case No.	SAS No:	SDG No.: 2209102
Matrix:	WATER	Lab Sample ID:	220910202 Lab File ID: 10202.D
Sample wt/vol:	5 Units: ML	Date Received:	09/14/02
Concentrated Extract Volume:	5	Date Extracted:	
Level:(low/med)	LOW	Date Analyzed:	09/25/02 Time: 1223
PercentSolids:	0 decanted :	Dilution Factor:	1
Extraction:	PURGETRAP	Station ID:	CEF-103-SMW-0 Method: 8260
GPC Cleanup : (Y/N)	pH:		
Column(1):	DB-624 ID: 0.18 (mm)		

CONCENTRATION UNITS: UG/L

CAS NO.	ANALYTE	RESULT	Q
106-93-4	1,2-Dibromoethane(EDB)	0.25	U
108-90-7	Chlorobenzene	1	U
630-20-6	1,1,1,2-Tetrachloroethane	1	U
100-41-4	Ethylbenzene	1	U
511-39-00	p,m-Xylene	2	U
95-47-6	o-Xylene	1	U
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U
98-82-8	Isopropylbenzene (Cumene)	0.2	U
108-86-1	Bromobenzene	0.15	U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	U
96-18-4	1,2,3-Trichloropropane	0.46	U
103-65-1	n-Propylbenzene	0.19	U
95-49-8	2-Chlorotoluene	1	U
106-43-4	4-Chlorotoluene	1	U
108-67-8	1,3,5-Trimethylbenzene	1	U
98-06-6	tert-Butylbenzene	0.38	U
95-63-6	1,2,4-Trimethylbenzene	1	U
135-98-8	sec-Butylbenzene	0.21	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
99-87-6	4-Isopropyltoluene	0.19	U
104-51-8	n-Butylbenzene	0.35	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	0.56	U
120-82-1	1,2,4-Trichlorobenzene	1	U
87-68-3	Hexachlorobutadiene	0.46	U

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VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name:	PEL Laboratories, Inc.	Contract:	NAS Cecil Field 10
Lab Code :	PEL	Case No.	
SAS No:		SDG No.:	2209102
Matrix:	WATER	Lab Sample ID:	220910202
Lab File ID:	10202.D	Sample wt/vol:	5
Units:	ML	Date Received:	09/14/02
Concentrated Extract Volume:	5	Date Extracted:	
Level:(low/med)	LOW	Date Analyzed:	09/25/02
Time:	1223	PercentSolids:	0
decanted :		Dilution Factor:	1
Extraction:	PURGETRAP	Station ID:	CEF-103-SMW-0
Method:	8260	GPC Cleanup : (Y/N)	
pH:		Column(1):	DB-624
ID:	0.18 (mm)		

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
91-20-3	Naphthalene	1	U
87-61-6	1,2,3-Trichlorobenzene	1	U
1330-20-7	Xylene (total)	2	U

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Form I

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VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name:	PEL Laboratories, Inc.	Contract:	NAS Cecil Field 10
			03Q30228
Lab Code :	PEL Case No.	SAS No:	SDG No.: 2209102
Matrix:	WATER	Lab Sample ID:	220910203 Lab File ID: 10203.D
Sample wt/vol:	5 Units: ML	Date Received:	09/14/02
Concentrated Extract Volume:	5	Date Extracted:	
Level:(low/med)	LOW	Date Analyzed:	09/25/02 Time: 1247
PercentSolids:	0 decanted :	Dilution Factor:	1
Extraction:	PURGETRAP	Station ID:	CEF-103-SMW-0 Method: 8260
GPC Cleanup : (Y/N)	pH:		
Column(1):	DB-624 ID: 0.18 (mm)		

CONCENTRATION UNITS: UG/L

CAS NO.	ANALYTE	RESULT	Q
75-71-8	Dichlorodifluoromethane	1	U
74-87-3	Chloromethane	1	U
75-01-4	Vinyl chloride	1	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
75-69-4	Trichlorofluoromethane	1	U
75-35-4	1,1-Dichloroethene	1	U
75-09-2	Methylene chloride	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
594-20-7	2,2-Dichloropropane	0.43	U
156-59-2	cis-1,2-Dichloroethene	1	U
74-97-5	Bromochloromethane	1	U
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
71-43-2	Benzene	1	U
107-06-2	1,2-Dichloroethane	1	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
74-95-3	Dibromomethane	1	U
75-27-4	Bromodichloromethane	0.6	U
108-88-3	Toluene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
127-18-4	Tetrachloroethene	1	U
142-28-9	1,3-Dichloropropane	1	U
124-48-1	Dibromochloromethane	0.4	U

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VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name:	PEL Laboratories, Inc.	Contract:	NAS Cecil Field 10
			03Q30228
Lab Code :	PEL Case No.	SAS No:	SDG No.: 2209102
Matrix:	WATER	Lab Sample ID:	220910203 Lab File ID: 10203.D
Sample wt/vol:	5 Units: ML	Date Received:	09/14/02
Concentrated Extract Volume:	5	Date Extracted:	
Level:(low/med)	LOW	Date Analyzed:	09/25/02 Time: 1247
PercentSolids:	0 decanted :	Dilution Factor:	1
Extraction:	PURGETRAP	Station ID:	CEF-103-SMW-0 Method: 8260
GPC Cleanup : (Y/N)	pH:		
Column(1):	DB-624 ID: 0.18 (mm)		
CONCENTRATION UNITS:	UG/L		

CAS NO.	*ANALYTE*	*RESULT*	*Q*
106-93-4	1,2-Dibromoethane(EDB)	0.25	U
108-90-7	Chlorobenzene	1	U
630-20-6	1,1,1,2-Tetrachloroethane	1	U
100-41-4	Ethylbenzene	1	U
511-39-00	p,m-Xylene	2	U
95-47-6	o-Xylene	1	U
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U
98-82-8	Isopropylbenzene (Cumene)	0.2	U
108-86-1	Bromobenzene	0.15	U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	U
96-18-4	1,2,3-Trichloropropane	0.46	U
103-65-1	n-Propylbenzene	0.19	U
95-49-8	2-Chlorotoluene	1	U
106-43-4	4-Chlorotoluene	1	U
108-67-8	1,3,5-Trimethylbenzene	1	U
98-06-6	tert-Butylbenzene	0.38	U
95-63-6	1,2,4-Trimethylbenzene	1	U
135-98-8	sec-Butylbenzene	0.21	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
99-87-6	4-Isopropyltoluene	0.19	U
104-51-8	n-Butylbenzene	0.35	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	0.56	U
120-82-1	1,2,4-Trichlorobenzene	1	U
87-68-3	Hexachlorobutadiene	0.46	U

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VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name:	PEL Laboratories, Inc.	Contract:	NAS Cecil Field 10
			03Q30228
Lab Code :	PEL	Case No.	
SAS No:		SDG No.:	2209102
Matrix:	WATER	Lab Sample ID:	220910203
Lab File ID:	10203.D	Sample wt/vol:	5
Units:	ML	Date Received:	09/14/02
Concentrated Extract Volume:	5	Date Extracted:	
Level:(low/med)	LOW	Date Analyzed:	09/25/02
Time:	1247	PercentSolids:	0
decanted :		Dilution Factor:	1
Extraction:	PURGETRAP	Station ID:	CEF-103-SMW-0
Method:	8260	GPC Cleanup : (Y/N)	
pH:		Column(1):	DB-624
ID:	0.18	(mm)	

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
91-20-3	Naphthalene	1	U
87-61-6	1,2,3-Trichlorobenzene	1	U
1330-20-7	Xylene (total)	2	U

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Form I

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VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name:	PEL Laboratories, Inc.	Contract:	NAS Cecil Field 10
			04Q30228
Lab Code :	PEL Case No.	SAS No:	SDG No.: 2209102
Matrix:	WATER	Lab Sample ID:	220910204 Lab File ID: 10204.D
Sample wt/vol:	5 Units: ML	Date Received:	09/14/02
Concentrated Extract Volume:	5	Date Extracted:	
Level:(low/med)	LOW	Date Analyzed:	09/25/02 Time: 1311
PercentSolids:	0 decanted :	Dilution Factor:	1
Extraction:	PURGETRAP	Station ID:	CEF-103-SMW-0 Method: 8260
GPC Cleanup : (Y/N)	pH:		
Column(1):	DB-624 ID: 0.18 (mm)		
CONCENTRATION UNITS:	UG/L		

CAS NO.	*ANALYTE*	*RESULT*	*Q*
75-71-8	Dichlorodifluoromethane	1	U
74-87-3	Chloromethane	1	U
75-01-4	Vinyl chloride	1	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
75-69-4	Trichlorofluoromethane	1	U
75-35-4	1,1-Dichloroethene	1	U
75-09-2	Methylene chloride	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
594-20-7	2,2-Dichloropropane	0.43	U
156-59-2	cis-1,2-Dichloroethene	1	U
74-97-5	Bromochloromethane	1	U
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
71-43-2	Benzene	1	U
107-06-2	1,2-Dichloroethane	1	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
74-95-3	Dibromomethane	1	U
75-27-4	Bromodichloromethane	0.6	U
108-88-3	Toluene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
127-18-4	Tetrachloroethene	1	U
142-28-9	1,3-Dichloropropane	1	U
124-48-1	Dibromochloromethane	0.4	U

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VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name:	PEL Laboratories, Inc.	Contract:	NAS Cecil Field 10
			04Q30228
Lab Code :	PEL Case No.	SAS No:	SDG No.: 2209102
Matrix:	WATER	Lab Sample ID:	220910204 Lab File ID: 10204.D
Sample wt/vol:	5 Units: ML	Date Received:	09/14/02
Concentrated Extract Volume:	5	Date Extracted:	
Level:(low/med)	LOW	Date Analyzed:	09/25/02 Time: 1311
PercentSolids:	0 decanted :	Dilution Factor:	1
Extraction:	PURGETRAP	Station ID:	CEF-103-SMW-0 Method: 8260
GPC Cleanup : (Y/N)	pH:		
Column(1):	DB-624 ID: 0.18 (mm)		

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
106-93-4	1,2-Dibromoethane(EDB)	0.25	U
108-90-7	Chlorobenzene	1	U
630-20-6	1,1,1,2-Tetrachloroethane	1	U
100-41-4	Ethylbenzene	1	U
511-39-00	p,m-Xylene	2	U
95-47-6	o-Xylene	1	U
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U
98-82-8	Isopropylbenzene (Cumene)	0.2	U
108-86-1	Bromobenzene	0.15	U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	U
96-18-4	1,2,3-Trichloropropane	0.46	U
103-65-1	n-Propylbenzene	0.19	U
95-49-8	2-Chlorotoluene	1	U
106-43-4	4-Chlorotoluene	1	U
108-67-8	1,3,5-Trimethylbenzene	1	U
98-06-6	tert-Butylbenzene	0.38	U
95-63-6	1,2,4-Trimethylbenzene	1	U
135-98-8	sec-Butylbenzene	0.21	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
99-87-6	4-Isopropyltoluene	0.19	U
104-51-8	n-Butylbenzene	0.35	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	0.56	U
120-82-1	1,2,4-Trichlorobenzene	1	U
87-68-3	Hexachlorobutadiene	0.46	U

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VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name:	PEL Laboratories, Inc.	Contract:	NAS Cecil Field 10
			04Q30228
Lab Code :	PEL	Case No.	
SAS No:		SDG No.:	2209102
Matrix:	WATER	Lab Sample ID:	220910204
Lab File ID:	10204.D	Sample wt/vol:	5
Units:	ML	Date Received:	09/14/02
Concentrated Extract Volume:	5	Date Extracted:	
Level:(low/med)	LOW	Date Analyzed:	09/25/02
Time:	1311	PercentSolids:	0
decanted :		Dilution Factor:	1
Extraction:	PURGETRAP	Station ID:	CEF-103-SMW-0
Method:	8260	GPC Cleanup : (Y/N)	
pH:		Column(1):	DB-624
ID:	0.18	(mm)	
CONCENTRATION UNITS:	UG/L		

CAS NO.	***ANALYTE***	***RESULT***	***Q***
91-20-3	Naphthalene	1	U
87-61-6	1,2,3-Trichlorobenzene	1	U
1330-20-7	Xylene (total)	2	U

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VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name:	PEL Laboratories, Inc.	Contract:	NAS Cecil Field 10
			05Q30228
Lab Code :	PEL Case No.	SAS No:	SDG No.: 2209102
Matrix:	WATER	Lab Sample ID:	220910205 Lab File ID: 10205.D
Sample wt/vol:	5 Units: ML	Date Received:	09/14/02
Concentrated Extract Volume:	5	Date Extracted:	
Level:(low/med)	LOW	Date Analyzed:	09/25/02 Time: 1335
PercentSolids:	0 decanted :	Dilution Factor:	1
Extraction:	PURGETRAP	Station ID:	CEF-103-SMW-0 Method: 8260
GPC Cleanup : (Y/N)	pH:		
Column(1):	DB-624 ID: 0.18 (mm)		

CONCENTRATION UNITS: UG/L

CAS NO.	ANALYTE	RESULT	Q
75-71-8	Dichlorodifluoromethane	1	U
74-87-3	Chloromethane	1	U
75-01-4	Vinyl chloride	1	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
75-69-4	Trichlorofluoromethane	1	U
75-35-4	1,1-Dichloroethene	1	U
75-09-2	Methylene chloride	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
594-20-7	2,2-Dichloropropane	0.43	U
156-59-2	cis-1,2-Dichloroethene	1	U
74-97-5	Bromochloromethane	1	U
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
71-43-2	Benzene	1	U
107-06-2	1,2-Dichloroethane	1	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
74-95-3	Dibromomethane	1	U
75-27-4	Bromodichloromethane	0.6	U
108-88-3	Toluene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
127-18-4	Tetrachloroethene	1	U
142-28-9	1,3-Dichloropropane	1	U
124-48-1	Dibromochloromethane	0.4	U

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VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name:	PEL Laboratories, Inc.	Contract:	NAS Cecil Field 10
			05Q30228
Lab Code :	PEL	Case No.	
SAS No:		SDG No.:	2209102
Matrix:	WATER	Lab Sample ID:	220910205
Lab File ID:	10205.D		
Sample wt/vol:	5	Units:	ML
Date Received:	09/14/02		
Concentrated Extract Volume:	5	Date Extracted:	
Level:(low/med)	LOW	Date Analyzed:	09/25/02
Time:	1335		
PercentSolids:	0	decanted :	
Dilution Factor:	1		
Extraction:	PURGETRAP	Station ID:	CEF-103-SMW-0
Method:	8260		
GPC Cleanup : (Y/N)		pH:	
Column(1):	DB-624	ID:	0.18 (mm)
CONCENTRATION UNITS:	UG/L		

CAS NO.	*ANALYTE*	*RESULT*	*Q*
106-93-4	1,2-Dibromoethane(EDB)	0.25	U
108-90-7	Chlorobenzene	1	U
630-20-6	1,1,1,2-Tetrachloroethane	1	U
100-41-4	Ethylbenzene	1	U
511-39-00	p,m-Xylene	2	U
95-47-6	o-Xylene	1	U
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U
98-82-8	Isopropylbenzene (Cumene)	0.2	U
108-86-1	Bromobenzene	0.15	U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	U
96-18-4	1,2,3-Trichloropropane	0.46	U
103-65-1	n-Propylbenzene	0.19	U
95-49-8	2-Chlorotoluene	1	U
106-43-4	4-Chlorotoluene	1	U
108-67-8	1,3,5-Trimethylbenzene	1	U
98-06-6	tert-Butylbenzene	0.38	U
95-63-6	1,2,4-Trimethylbenzene	1	U
135-98-8	sec-Butylbenzene	0.21	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
99-87-6	4-Isopropyltoluene	0.19	U
104-51-8	n-Butylbenzene	0.35	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	0.56	U
120-82-1	1,2,4-Trichlorobenzene	1	U
87-68-3	Hexachlorobutadiene	0.46	U

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VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

05Q30228

Lab Name: PEL Laboratories, Inc. Contract: NAS Cecil Field 10

Lab Code : PEL Case No. SAS No: SDG No.: 2209102

Matrix: WATER Lab Sample ID: 220910205 Lab File ID: 10205.D

Sample wt/vol: 5 Units: ML Date Received: 09/14/02

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 09/25/02 Time: 1335

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID: CEF-103-SMW-0 Method: 8260

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
91-20-3	Naphthalene	1	U
87-61-6	1,2,3-Trichlorobenzene	1	U
1330-20-7	Xylene (total)	2	U

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VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name:	PEL Laboratories, Inc.	Contract:	NAS Cecil Field 10
			06Q30228
Lab Code :	PEL Case No.	SAS No:	SDG No.: 2209102
Matrix:	WATER	Lab Sample ID:	220910206 Lab File ID: 10206.D
Sample wt/vol:	5 Units: ML	Date Received:	09/14/02
Concentrated Extract Volume:	5	Date Extracted:	
Level:(low/med)	LOW	Date Analyzed:	09/25/02 Time: 1400
PercentSolids:	0 decanted :	Dilution Factor:	1
Extraction:	PURGETRAP	Station ID:	CEF-103-SMW-0 Method: 8260
GPC Cleanup : (Y/N)	pH:		
Column(1):	DB-624 ID: 0.18 (mm)		
CONCENTRATION UNITS:	UG/L		

CAS NO.	*ANALYTE*	*RESULT*	*Q*
75-71-8	Dichlorodifluoromethane	1	U
74-87-3	Chloromethane	1	U
75-01-4	Vinyl chloride	1	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
75-69-4	Trichlorofluoromethane	1	U
75-35-4	1,1-Dichloroethene	1	U
75-09-2	Methylene chloride	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
594-20-7	2,2-Dichloropropane	0.43	U
156-59-2	cis-1,2-Dichloroethene	1	U
74-97-5	Bromochloromethane	1	U
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
71-43-2	Benzene	1	U
107-06-2	1,2-Dichloroethane	1	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
74-95-3	Dibromomethane	1	U
75-27-4	Bromodichloromethane	0.6	U
108-88-3	Toluene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
127-18-4	Tetrachloroethene	1	U
142-28-9	1,3-Dichloropropane	1	U
124-48-1	Dibromochloromethane	0.4	U

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VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name:	PEL Laboratories, Inc.	Contract:	NAS Cecil Field 10
			06Q30228
Lab Code :	PEL Case No.	SAS No:	SDG No.: 2209102
Matrix:	WATER	Lab Sample ID:	220910206 Lab File ID: 10206.D
Sample wt/vol:	5 Units: ML	Date Received:	09/14/02
Concentrated Extract Volume:	5	Date Extracted:	
Level:(low/med)	LOW	Date Analyzed:	09/25/02 Time: 1400
PercentSolids:	0 decanted :	Dilution Factor:	1
Extraction:	PURGETRAP	Station ID:	CEF-103-SMW-0 Method: 8260
GPC Cleanup : (Y/N)	pH:		
Column(1):	DB-624 ID: 0.18 (mm)		

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
106-93-4	1,2-Dibromoethane(EDB)	0.25	U
108-90-7	Chlorobenzene	1	U
630-20-6	1,1,1,2-Tetrachloroethane	1	U
100-41-4	Ethylbenzene	1	U
511-39-00	p,m-Xylene	2	U
95-47-6	o-Xylene	1	U
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U
98-82-8	Isopropylbenzene (Cumene)	0.2	U
108-86-1	Bromobenzene	0.15	U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	U
96-18-4	1,2,3-Trichloropropane	0.46	U
103-65-1	n-Propylbenzene	0.19	U
95-49-8	2-Chlorotoluene	1	U
106-43-4	4-Chlorotoluene	1	U
108-67-8	1,3,5-Trimethylbenzene	1	U
98-06-6	tert-Butylbenzene	0.38	U
95-63-6	1,2,4-Trimethylbenzene	1	U
135-98-8	sec-Butylbenzene	0.21	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
99-87-6	4-Isopropyltoluene	0.19	U
104-51-8	n-Butylbenzene	0.35	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	0.56	U
120-82-1	1,2,4-Trichlorobenzene	1	U
87-68-3	Hexachlorobutadiene	0.46	U

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VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name:	PEL Laboratories, Inc.	Contract:	NAS Cecil Field 10
			06Q30228
Lab Code :	PEL	Case No.	
SAS No:		SDG No.:	2209102
Matrix:	WATER	Lab Sample ID:	220910206
Lab File ID:	10206.D	Sample wt/vol:	5
Units:	ML	Date Received:	09/14/02
Concentrated Extract Volume:	5	Date Extracted:	
Level:(low/med)	LOW	Date Analyzed:	09/25/02
Time:	1400	PercentSolids:	0
decanted :		Dilution Factor:	1
Extraction:	PURGETRAP	Station ID:	CEF-103-SMW-0
Method:	8260	GPC Cleanup : (Y/N)	
pH:		Column(1):	DB-624
ID:	0.18	(mm)	
CONCENTRATION UNITS:	UG/L		

CAS NO.	***ANALYTE***	***RESULT***	***Q***
91-20-3	Naphthalene	1	U
87-61-6	1,2,3-Trichlorobenzene	1	U
1330-20-7	Xylene (total)	2	U

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VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name:	PEL Laboratories, Inc.	Contract:	NAS Cecil Field 10
			07Q30228
Lab Code :	PEL Case No.	SAS No:	SDG No.: 2209102
Matrix:	WATER	Lab Sample ID:	220910207 Lab File ID: 10207.D
Sample wt/vol:	5 Units: ML	Date Received:	09/14/02
Concentrated Extract Volume:	5	Date Extracted:	
Level:(low/med)	LOW	Date Analyzed:	09/25/02 Time: 1424
PercentSolids:	0 decanted :	Dilution Factor:	1
Extraction:	PURGETRAP	Station ID:	CEF-103-SMW-0 Method: 8260
GPC Cleanup : (Y/N)	pH:		
Column(1):	DB-624 ID: 0.18 (mm)		

CONCENTRATION UNITS: UG/L

CAS NO.	ANALYTE	RESULT	Q
75-71-8	Dichlorodifluoromethane	1	U
74-87-3	Chloromethane	1	U
75-01-4	Vinyl chloride	1	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
75-69-4	Trichlorofluoromethane	1	U
75-35-4	1,1-Dichloroethene	1	U
75-09-2	Methylene chloride	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
594-20-7	2,2-Dichloropropane	0.43	U
156-59-2	cis-1,2-Dichloroethene	1	U
74-97-5	Bromochloromethane	1	U
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
71-43-2	Benzene	1	U
107-06-2	1,2-Dichloroethane	1	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
74-95-3	Dibromomethane	1	U
75-27-4	Bromodichloromethane	0.6	U
108-88-3	Toluene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
127-18-4	Tetrachloroethene	1	U
142-28-9	1,3-Dichloropropane	1	U
124-48-1	Dibromochloromethane	0.4	U

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VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name:	PEL Laboratories, Inc.	Contract:	NAS Cecil Field 10
			07Q30228
Lab Code :	PEL Case No.	SAS No:	SDG No.: 2209102
Matrix:	WATER	Lab Sample ID:	220910207 Lab File ID: 10207.D
Sample wt/vol:	5 Units: ML	Date Received:	09/14/02
Concentrated Extract Volume:	5	Date Extracted:	
Level:(low/med)	LOW	Date Analyzed:	09/25/02 Time: 1424
PercentSolids:	0 decanted :	Dilution Factor:	1
Extraction:	PURGETRAP	Station ID:	CEF-103-SMW-0 Method: 8260
GPC Cleanup : (Y/N)	pH:		
Column(1):	DB-624 ID: 0.18 (mm)		
CONCENTRATION UNITS:	UG/L		

CAS NO.	*ANALYTE*	*RESULT*	*Q*
106-93-4	1,2-Dibromoethane(EDB)	0.25	U
108-90-7	Chlorobenzene	1	U
630-20-6	1,1,1,2-Tetrachloroethane	1	U
100-41-4	Ethylbenzene	1	U
511-39-00	p,m-Xylene	2	U
95-47-6	o-Xylene	1	U
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U
98-82-8	Isopropylbenzene (Cumene)	0.2	U
108-86-1	Bromobenzene	0.15	U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	U
96-18-4	1,2,3-Trichloropropane	0.46	U
103-65-1	n-Propylbenzene	0.19	U
95-49-8	2-Chlorotoluene	1	U
106-43-4	4-Chlorotoluene	1	U
108-67-8	1,3,5-Trimethylbenzene	1	U
98-06-6	tert-Butylbenzene	0.38	U
95-63-6	1,2,4-Trimethylbenzene	1	U
135-98-8	sec-Butylbenzene	0.21	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
99-87-6	4-Isopropyltoluene	0.19	U
104-51-8	n-Butylbenzene	0.35	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	0.56	U
120-82-1	1,2,4-Trichlorobenzene	1	U
87-68-3	Hexachlorobutadiene	0.46	U

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VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name:	PEL Laboratories, Inc.	Contract:	NAS Cecil Field 10
			07Q30228
Lab Code :	PEL	Case No.	
SAS No:		SDG No.:	2209102
Matrix:	WATER	Lab Sample ID:	220910207
Lab File ID:	10207.D	Sample wt/vol:	5
Units:	ML	Date Received:	09/14/02
Concentrated Extract Volume:	5	Date Extracted:	
Level:(low/med)	LOW	Date Analyzed:	09/25/02
Time:	1424	PercentSolids:	0
decanted :		Dilution Factor:	1
Extraction:	PURGETRAP	Station ID:	CEF-103-SMW-0
Method:	8260	GPC Cleanup : (Y/N)	
pH:		Column(1):	DB-624
ID:	0.18 (mm)	*CONCENTRATION UNITS:*	UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
91-20-3	Naphthalene	1	U
87-61-6	1,2,3-Trichlorobenzene	1	U
1330-20-7	Xylene (total)	2	U

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VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

10Q30228

Lab Name: PEL Laboratories, Inc. Contract: NAS Cecil Field 10

Lab Code : PEL Case No. SAS No: SDG No.: 2209102

Matrix: WATER Lab Sample ID: 220910208 Lab File ID: 10208.D

Sample wt/vol: 5 Units: ML Date Received: 09/14/02

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 09/25/02 Time: 1448

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID: CEF-103-SMW-1 Method: 8260

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	ANALYTE	RESULT	Q
75-71-8	Dichlorodifluoromethane	1	U
74-87-3	Chloromethane	1	U
75-01-4	Vinyl chloride	1	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
75-69-4	Trichlorofluoromethane	1	U
75-35-4	1,1-Dichloroethene	1	U
75-09-2	Methylene chloride	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
594-20-7	2,2-Dichloropropane	0.43	U
156-59-2	cis-1,2-Dichloroethene	1	U
74-97-5	Bromochloromethane	1	U
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
71-43-2	Benzene	1	U
107-06-2	1,2-Dichloroethane	1	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
74-95-3	Dibromomethane	1	U
75-27-4	Bromodichloromethane	0.6	U
108-88-3	Toluene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
127-18-4	Tetrachloroethene	1	U
142-28-9	1,3-Dichloropropane	1	U
124-48-1	Dibromochloromethane	0.4	U

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Form I

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VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name:	PEL Laboratories, Inc.	Contract:	NAS Cecil Field 10
			10Q30228
Lab Code :	PEL	Case No.	
SAS No:		SDG No.:	2209102
Matrix:	WATER	Lab Sample ID:	220910208
Lab File ID:	10208.D		
Sample wt/vol:	5	Units:	ML
Date Received:	09/14/02		
Concentrated Extract Volume:	5	Date Extracted:	
Level:(low/med)	LOW	Date Analyzed:	09/25/02
Time:	1448		
PercentSolids:	0	decanted :	
Dilution Factor:	1		
Extraction:	PURGETRAP	Station ID:	CEF-103-SMW-1
Method:	8260		
GPC Cleanup : (Y/N)		pH:	
Column(1):	DB-624	ID:	0.18 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
106-93-4	1,2-Dibromoethane(EDB)	0.25	U
108-90-7	Chlorobenzene	1	U
630-20-6	1,1,1,2-Tetrachloroethane	1	U
100-41-4	Ethylbenzene	1	U
511-39-00	p,m-Xylene	2	U
95-47-6	o-Xylene	1	U
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U
98-82-8	Isopropylbenzene (Cumene)	0.2	U
108-86-1	Bromobenzene	0.15	U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	U
96-18-4	1,2,3-Trichloropropane	0.46	U
103-65-1	n-Propylbenzene	0.19	U
95-49-8	2-Chlorotoluene	1	U
106-43-4	4-Chlorotoluene	1	U
108-67-8	1,3,5-Trimethylbenzene	1	U
98-06-6	tert-Butylbenzene	0.38	U
95-63-6	1,2,4-Trimethylbenzene	1	U
135-98-8	sec-Butylbenzene	0.21	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
99-87-6	4-Isopropyltoluene	0.19	U
104-51-8	n-Butylbenzene	0.35	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	0.56	U
120-82-1	1,2,4-Trichlorobenzene	1	U
87-68-3	Hexachlorobutadiene	0.46	U

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VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name:	PEL Laboratories, Inc.	Contract:	NAS Cecil Field 10
			10Q30228
Lab Code :	PEL	Case No.	
SAS No:		SDG No.:	2209102
Matrix:	WATER	Lab Sample ID:	220910208
Lab File ID:	10208.D		
Sample wt/vol:	5	Units:	ML
Date Received:	09/14/02		
Concentrated Extract Volume:	5	Date Extracted:	
Level:(low/med)	LOW	Date Analyzed:	09/25/02
Time:	1448		
PercentSolids:	0	decanted :	
Dilution Factor:	1		
Extraction:	PURGETRAP	Station ID:	CEF-103-SMW-1
Method:	8260		
GPC Cleanup : (Y/N)		pH:	
Column(1):	DB-624	ID:	0.18 (mm)
CONCENTRATION UNITS:	UG/L		

CAS NO.	*ANALYTE*	*RESULT*	*Q*
91-20-3	Naphthalene	1	U
87-61-6	1,2,3-Trichlorobenzene	1	U
1330-20-7	Xylene (total)	2	U

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VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name:	PEL Laboratories, Inc.	Contract:	NAS Cecil Field 10
			11Q30228
Lab Code :	PEL Case No.	SAS No:	SDG No.: 2209102
Matrix:	WATER	Lab Sample ID:	220910209 Lab File ID: 10209.D
Sample wt/vol:	5 Units: ML	Date Received:	09/14/02
Concentrated Extract Volume:	5	Date Extracted:	
Level:(low/med)	LOW	Date Analyzed:	09/25/02 Time: 1159
PercentSolids:	0 decanted :	Dilution Factor:	1
Extraction:	PURGETRAP	Station ID:	CEF-103-SMW-1 Method: 8260
GPC Cleanup : (Y/N)	pH:		
Column(1):	DB-624 ID: 0.18 (mm)		

CONCENTRATION UNITS: UG/L

CAS NO.	ANALYTE	RESULT	Q
75-71-8	Dichlorodifluoromethane	1	U
74-87-3	Chloromethane	1	U
75-01-4	Vinyl chloride	1	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
75-69-4	Trichlorofluoromethane	1	U
75-35-4	1,1-Dichloroethene	1	U
75-09-2	Methylene chloride	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
594-20-7	2,2-Dichloropropane	0.43	U
156-59-2	cis-1,2-Dichloroethene	1	U
74-97-5	Bromochloromethane	1	U
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
71-43-2	Benzene	1	U
107-06-2	1,2-Dichloroethane	1	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
74-95-3	Dibromomethane	1	U
75-27-4	Bromodichloromethane	0.6	U
108-88-3	Toluene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
127-18-4	Tetrachloroethene	1	U
142-28-9	1,3-Dichloropropane	1	U
124-48-1	Dibromochloromethane	0.4	U

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VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name:	PEL Laboratories, Inc.	Contract:	NAS Cecil Field 10
			11Q30228
Lab Code :	PEL Case No.	SAS No:	SDG No.: 2209102
Matrix:	WATER	Lab Sample ID:	220910209 Lab File ID: 10209.D
Sample wt/vol:	5 Units: ML	Date Received:	09/14/02
Concentrated Extract Volume:	5	Date Extracted:	
Level:(low/med)	LOW	Date Analyzed:	09/25/02 Time: 1159
PercentSolids:	0 decanted :	Dilution Factor:	1
Extraction:	PURGETRAP	Station ID:	CEF-103-SMW-1 Method: 8260
GPC Cleanup : (Y/N)	pH:		
Column(1):	DB-624 ID: 0.18 (mm)		
CONCENTRATION UNITS:	UG/L		

CAS NO.	*ANALYTE*	*RESULT*	*Q*
106-93-4	1,2-Dibromoethane(EDB)	0.25	U
108-90-7	Chlorobenzene	1	U
630-20-6	1,1,1,2-Tetrachloroethane	1	U
100-41-4	Ethylbenzene	1	U
511-39-00	p,m-Xylene	2	U
95-47-6	o-Xylene	1	U
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U
98-82-8	Isopropylbenzene (Cumene)	0.2	U
108-86-1	Bromobenzene	0.15	U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	U
96-18-4	1,2,3-Trichloropropane	0.46	U
103-65-1	n-Propylbenzene	0.19	U
95-49-8	2-Chlorotoluene	1	U
106-43-4	4-Chlorotoluene	1	U
108-67-8	1,3,5-Trimethylbenzene	1	U
98-06-6	tert-Butylbenzene	0.38	U
95-63-6	1,2,4-Trimethylbenzene	1	U
135-98-8	sec-Butylbenzene	0.21	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
99-87-6	4-Isopropyltoluene	0.19	U
104-51-8	n-Butylbenzene	0.35	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	0.56	U
120-82-1	1,2,4-Trichlorobenzene	1	U
87-68-3	Hexachlorobutadiene	0.46	U

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VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name:	PEL Laboratories, Inc.	Contract:	NAS Cecil Field 10
			11Q30228
Lab Code :	PEL Case No.	SAS No:	SDG No.: 2209102
Matrix:	WATER	Lab Sample ID:	220910209 Lab File ID: 10209.D
Sample wt/vol:	5 Units: ML	Date Received:	09/14/02
Concentrated Extract Volume:	5	Date Extracted:	
Level:(low/med)	LOW	Date Analyzed:	09/25/02 Time: 1159
PercentSolids:	0 decanted :	Dilution Factor:	1
Extraction:	PURGETRAP	Station ID:	CEF-103-SMW-1 Method: 8260
GPC Cleanup : (Y/N)	pH:		
Column(1):	DB-624 ID: 0.18 (mm)		
CONCENTRATION UNITS:	UG/L		

CAS NO.	*ANALYTE*	*RESULT*	*Q*
91-20-3	Naphthalene	1	U
87-61-6	1,2,3-Trichlorobenzene	1	U
1330-20-7	Xylene (total)	2	U

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VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

DUPQ30228

Lab Name: PEL Laboratories, Inc.

Contract: NAS Cecil Field 10

Lab Code : PEL Case No.

SAS No: SDG No.: 2209102

Matrix: WATER

Lab Sample ID: 220910212 Lab File ID: 10212.D

Sample wt/vol: 5 Units: ML

Date Received: 09/14/02

Concentrated Extract Volume: 5

Date Extracted:

Level:(low/med) LOW

Date Analyzed: 09/25/02 Time: 1536

PercentSolids: 0 decanted :

Dilution Factor: 1

Extraction: PURGETRAP

Station ID: Duplicate Method: 8260

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
75-71-8	Dichlorodifluoromethane	1	U
74-87-3	Chloromethane	1	U
75-01-4	Vinyl chloride	1	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
75-69-4	Trichlorofluoromethane	1	U
75-35-4	1,1-Dichloroethene	1	U
75-09-2	Methylene chloride	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
594-20-7	2,2-Dichloropropane	0.43	U
156-59-2	cis-1,2-Dichloroethene	1	U
74-97-5	Bromochloromethane	1	U
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
71-43-2	Benzene	1	U
107-06-2	1,2-Dichloroethane	1	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
74-95-3	Dibromomethane	1	U
75-27-4	Bromodichloromethane	0.6	U
108-88-3	Toluene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
127-18-4	Tetrachloroethene	1	U
142-28-9	1,3-Dichloropropane	1	U
124-48-1	Dibromochloromethane	0.4	U

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VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

DUPQ30228

Lab Name: PEL Laboratories, Inc.

Contract: NAS Cecil Field 10

Lab Code : PEL Case No.

SAS No: SDG No.: 2209102

Matrix: WATER

Lab Sample ID: 220910212 Lab File ID: 10212.D

Sample wt/vol: 5 Units: ML

Date Received: 09/14/02

Concentrated Extract Volume: 5

Date Extracted:

Level:(low/med) LOW

Date Analyzed: 09/25/02 Time: 1536

PercentSolids: 0 decanted :

Dilution Factor: 1

Extraction: PURGETRAP

Station ID: Duplicate Method: 8260

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
106-93-4	1,2-Dibromoethane(EDB)	0.25	U
108-90-7	Chlorobenzene	1	U
630-20-6	1,1,1,2-Tetrachloroethane	1	U
100-41-4	Ethylbenzene	1	U
511-39-00	p,m-Xylene	2	U
95-47-6	o-Xylene	1	U
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U
98-82-8	Isopropylbenzene (Cumene)	0.2	U
108-86-1	Bromobenzene	0.15	U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	U
96-18-4	1,2,3-Trichloropropane	0.46	U
103-65-1	n-Propylbenzene	0.19	U
95-49-8	2-Chlorotoluene	1	U
106-43-4	4-Chlorotoluene	1	U
108-67-8	1,3,5-Trimethylbenzene	1	U
98-06-6	tert-Butylbenzene	0.38	U
95-63-6	1,2,4-Trimethylbenzene	1	U
135-98-8	sec-Butylbenzene	0.21	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
99-87-6	4-Isopropyltoluene	0.19	U
104-51-8	n-Butylbenzene	0.35	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	0.56	U
120-82-1	1,2,4-Trichlorobenzene	1	U
87-68-3	Hexachlorobutadiene	0.46	U

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VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

DUPQ30228

Lab Name: PEL Laboratories, Inc.

Contract: NAS Cecil Field 10

Lab Code : PEL Case No.

SAS No:

SDG No.: 2209102

Matrix: WATER

Lab Sample ID: 220910212

Lab File ID: 10212.D

Sample wt/vol: 5 Units: ML

Date Received: 09/14/02

Concentrated Extract Volume: 5

Date Extracted:

Level:(low/med) LOW

Date Analyzed: 09/25/02 Time: 1536

PercentSolids: 0 decanted :

Dilution Factor: 1

Extraction: PURGETRAP

Station ID: Duplicate Method: 8260

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
91-20-3	Naphthalene	1	U
87-61-6	1,2,3-Trichlorobenzene	1	U
1330-20-7	Xylene (total)	2	U

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VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EQBQ30228

Lab Name: PEL Laboratories, Inc. Contract: NAS Cecil Field 10

Lab Code : PEL Case No. SAS No: SDG No.: 2209102

Matrix: WATER Lab Sample ID: 220910213 Lab File ID: 10213.D

Sample wt/vol: 5 Units: ML Date Received: 09/14/02

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 09/25/02 Time: 1600

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID: Equipment Blank Method: 8260

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
75-71-8	Dichlorodifluoromethane	1	U
74-87-3	Chloromethane	1	U
75-01-4	Vinyl chloride	1	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
75-69-4	Trichlorofluoromethane	1	U
75-35-4	1,1-Dichloroethene	1	U
75-09-2	Methylene chloride	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
594-20-7	2,2-Dichloropropane	0.43	U
156-59-2	cis-1,2-Dichloroethene	1	U
74-97-5	Bromochloromethane	1	U
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
71-43-2	Benzene	1	U
107-06-2	1,2-Dichloroethane	1	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
74-95-3	Dibromomethane	1	U
75-27-4	Bromodichloromethane	0.6	U
108-88-3	Toluene	0.66	J
79-00-5	1,1,2-Trichloroethane	1	U
127-18-4	Tetrachloroethene	1	U
142-28-9	1,3-Dichloropropane	1	U
124-48-1	Dibromochloromethane	0.4	U

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VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EQBQ30228

PEL Laboratories, Inc.

Contract: NAS Cecil Field 10

EL Case No.

SAS No:

SDG No.: 2209102

ER

Lab Sample ID: 220910213

Lab File ID: 10213.D

Units: ML

Date Received: 09/14/02

act Volume: 5

Date Extracted:

LOW

Date Analyzed: 09/25/02

Time: 1600

0 decanted :

Dilution Factor: 1

RGETRAP

Station ID: Equipment Blank

Method: 8260

Y/N)

pH:

-624

ID: 0.18 (mm)

ON UNITS: UG/L

ANALYTE	RESULT	Q
1,2-Dibromoethane(EDB)	0.25	U
Chlorobenzene	1	U
1,1,1,2-Tetrachloroethane	1	U
Ethylbenzene	1	U
p,m-Xylene	2	U
o-Xylene	1	U
Styrene	1	U
Bromoform	1	U
Isopropylbenzene (Cumene)	0.2	U
Bromobenzene	0.15	U
1,1,2,2-Tetrachloroethane	0.2	U
1,2,3-Trichloropropane	0.46	U
n-Propylbenzene	0.19	U
2-Chlorotoluene	1	U
4-Chlorotoluene	1	U
1,3,5-Trimethylbenzene	1	U
tert-Butylbenzene	0.38	U
1,2,4-Trimethylbenzene	1	U
sec-Butylbenzene	0.21	U
1,3-Dichlorobenzene	1	U
1,4-Dichlorobenzene	1	U
4-Isopropyltoluene	0.19	U
n-Butylbenzene	0.35	U
1,2-Dichlorobenzene	1	U
1,2-Dibromo-3-chloropropane	0.56	U
1,2,4-Trichlorobenzene	1	U
Hexachlorobutadiene	0.46	U

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VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EQBQ30228

Lab Name: PEL Laboratories, Inc.

Contract: NAS Cecil Field 10

Lab Code : PEL Case No.

SAS No: SDG No.: 2209102

Matrix: WATER

Lab Sample ID: 220910213 Lab File ID: 10213.D

Sample wt/vol: 5 Units: ML

Date Received: 09/14/02

Concentrated Extract Volume: 5

Date Extracted:

Level:(low/med) LOW

Date Analyzed: 09/25/02 Time: 1600

PercentSolids: 0 decanted :

Dilution Factor: 1

Extraction: PURGETRAP

Station ID: Equipment Blank Method: 8260

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
91-20-3	Naphthalene	1	U
87-61-6	1,2,3-Trichlorobenzene	1	U
1330-20-7	Xylene (total)	2	U

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VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

TBQ30228

Lab Name: PEL Laboratories, Inc. Contract: NAS Cecil Field 10

Lab Code : PEL Case No. SAS No: SDG No.: 2209102

Matrix: WATER Lab Sample ID: 220910214 Lab File ID: 10214.D

Sample wt/vol: 5 Units: ML Date Received: 09/14/02

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 09/25/02 Time: 1624

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID: Trip Blank Method: 8260

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
75-71-8	Dichlorodifluoromethane	1	U
74-87-3	Chloromethane	1	U
75-01-4	Vinyl chloride	1	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
75-69-4	Trichlorofluoromethane	1	U
75-35-4	1,1-Dichloroethene	1	U
75-09-2	Methylene chloride	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
594-20-7	2,2-Dichloropropane	0.43	U
156-59-2	cis-1,2-Dichloroethene	1	U
74-97-5	Bromochloromethane	1	U
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
71-43-2	Benzene	1	U
107-06-2	1,2-Dichloroethane	1	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
74-95-3	Dibromomethane	1	U
75-27-4	Bromodichloromethane	0.6	U
108-88-3	Toluene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
127-18-4	Tetrachloroethene	1	U
142-28-9	1,3-Dichloropropane	1	U
124-48-1	Dibromochloromethane	0.4	U

1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

TBQ30228

Lab Name: PEL Laboratories, Inc. Contract: NAS Cecil Field 10

Lab Code : PEL Case No. SAS No: SDG No.: 2209102

Matrix: WATER Lab Sample ID: 220910214 Lab File ID: 10214.D

Sample wt/vol: 5 Units: ML Date Received: 09/14/02

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 09/25/02 Time: 1624

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID: Trip Blank Method: 8260

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
106-93-4	1,2-Dibromoethane(EDB)	0.25	U
108-90-7	Chlorobenzene	1	U
630-20-6	1,1,1,2-Tetrachloroethane	1	U
100-41-4	Ethylbenzene	1	U
511-39-00	p,m-Xylene	2	U
95-47-6	o-Xylene	1	U
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U
98-82-8	Isopropylbenzene (Cumene)	0.2	U
108-86-1	Bromobenzene	0.15	U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	U
96-18-4	1,2,3-Trichloropropane	0.46	U
103-65-1	n-Propylbenzene	0.19	U
95-49-8	2-Chlorotoluene	1	U
106-43-4	4-Chlorotoluene	1	U
108-67-8	1,3,5-Trimethylbenzene	1	U
98-06-6	tert-Butylbenzene	0.38	U
95-63-6	1,2,4-Trimethylbenzene	1	U
135-98-8	sec-Butylbenzene	0.21	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
99-87-6	4-Isopropyltoluene	0.19	U
104-51-8	n-Butylbenzene	0.35	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	0.56	U
120-82-1	1,2,4-Trichlorobenzene	1	U
87-68-3	Hexachlorobutadiene	0.46	U

1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

TBQ30228

aboratories, Inc.

Contract: NAS Cecil Field 10

Case No.

SAS No:

SDG No.: 2209102

Lab Sample ID: 220910214

Lab File ID: 10214.D

Units: ML

Date Received: 09/14/02

Volume: 5

Date Extracted:

OW

Date Analyzed: 09/25/02

Time: 1624

decanted :

Dilution Factor: 1

TRAP

Station ID: Trip Blank

Method: 8260

pH:

ID: 0.18 (mm)

UNITS: UG/L

	ANALYTE	RESULT	Q
	phthalene	1	U
8	3-Trichlorobenzene	1	U
13	ene (total)	2	U

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Form I

QC Summary

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1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

092502BLKA32

aboratories, Inc.

Contract: NAS Cecil Field 10

Case No.

SAS No:

SDG No.: 2209102

Lab Sample ID: 092502BLKA32

Lab File ID: BLK32.D

Units: ML

Date Received: 09/25/02

Volume: 5

Date Extracted:

OW

Date Analyzed: 09/25/02

Time: 0849

decanted :

Dilution Factor: 1

ETRAP

Station ID:

Method: 8260

pH:

24

ID: 0.18 (mm)

UNITS: UG/L

NALYTE	RESULT	Q
ichlorodifluoromethane	1	U
hloromethane	1	U
inyl chloride	1	U
romomethane	1	U
hloroethane	1	U
richlorofluoromethane	1	U
1-Dichloroethene	1	U
Methylene chloride	1	U
ans-1,2-Dichloroethene	1	U
-Dichloroethane	1	U
2-Dichloropropane	0.43	U
s 1,2-Dichloroethene	1	U
romochloromethane	1	U
hloroform	1	U
1-Trichloroethane	1	U
arbon tetrachloride	1	U
enzene	1	U
2-Dichloroethane	1	U
Trichloroethene	1	U
2-Dichloropropane	1	U
ibromomethane	1	U
romodichloromethane	0.6	U
oluene	1	U
1,2-Trichloroethane	1	U
etrachloroethene	1	U
3-Dichloropropane	1	U
ibromochloromethane	0.4	U

Form I

1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

092502BLKA32

Lab Name: PEL Laboratories, Inc.

Contract: NAS Cecil Field 10

Lab Code : PEL Case No.

SAS No: SDG No.: 2209102

Matrix: WATER

Lab Sample ID: 092502BLKA32 Lab File ID: BLK32.D

Sample wt/vol: 5 Units: ML

Date Received: 09/25/02

Concentrated Extract Volume: 5

Date Extracted:

Level:(low/med) LOW

Date Analyzed: 09/25/02 Time: 0849

PercentSolids: 0 decanted :

Dilution Factor: 1

Extraction: PURGETRAP

Station ID: Method: 8260

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
106-93-4	1,2-Dibromoethane(EDB)	0.25	U
108-90-7	Chlorobenzene	1	U
630-20-6	1,1,1,2-Tetrachloroethane	1	U
100-41-4	Ethylbenzene	1	U
511-39-00	p,m-Xylene	2	U
95-47-6	o-Xylene	1	U
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U
98-82-8	Isopropylbenzene (Cumene)	0.2	U
108-86-1	Bromobenzene	0.15	U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	U
96-18-4	1,2,3-Trichloropropane	0.46	U
103-65-1	n-Propylbenzene	0.19	U
95-49-8	2-Chlorotoluene	1	U
106-43-4	4-Chlorotoluene	1	U
108-67-8	1,3,5-Trimethylbenzene	1	U
98-06-6	tert-Butylbenzene	0.38	U
95-63-6	1,2,4-Trimethylbenzene	1	U
135-98-8	sec-Butylbenzene	0.21	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
99-87-6	4-Isopropyltoluene	0.19	U
104-51-8	n-Butylbenzene	0.35	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	0.56	U
120-82-1	1,2,4-Trichlorobenzene	1	U
87-68-3	Hexachlorobutadiene	0.46	U

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Form I

1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

092502BLKA32

Lab Name: PEL Laboratories, Inc. Contract: NAS Cecil Field 10

Lab Code : PEL Case No. SAS No: SDG No.: 2209102

Matrix: WATER Lab Sample ID: 092502BLKA32 Lab File ID: BLK32.D

Sample wt/vol: 5 Units: ML Date Received: 09/25/02

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 09/25/02 Time: 0849

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID: Method: 8260

GPC Cleanup : (Y/N) pH:

Column(1): DB-624 ID: 0.18 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
91-20-3	Naphthalene	1	U
87-61-6	1,2,3-Trichlorobenzene	1	U
1330-20-7	Xylene (total)	2	U

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Form I

VOLATILE ORGANIC METHOD BLANK SUMMARY

EPA Sample No.: 092502BLKA32

Lab Name: PEL Laboratories, Inc.
Contract: NAS Cecil Field 10
Lab Code: PEL
Case No.
SAS No:
SDG No.: 2209102
Lab File ID: BLK32.D
Lab Sample ID: 092502BLKA32
Instrument ID: VMS03
Date Extracted:
Matrix: WATER
Date Analyzed: 09/25/02
Level:(low/med) LOW
Time Analyzed: 0849

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	092502LCSA31	092502LCSA31	LCS31.D	09/25/02	0626
2	11Q30228MS	220910210	10210.D	09/25/02	0737
3	11Q30228SD	220910211	10211.D	09/25/02	0801
4	11Q30228	220910209	10209.D	09/25/02	1159
5	02Q30228	220910202	10202.D	09/25/02	1223
6	03Q30228	220910203	10203.D	09/25/02	1247
7	04Q30228	220910204	10204.D	09/25/02	1311
8	05Q30228	220910205	10205.D	09/25/02	1335
9	06Q30228	220910206	10206.D	09/25/02	1400
10	07Q30228	220910207	10207.D	09/25/02	1424
11	10Q30228	220910208	10208.D	09/25/02	1448
12	01Q30228	220910201	10201.D	09/25/02	1512
13	DUPQ30228	220910212	10212.D	09/25/02	1536
14	EQBQ30228	220910213	10213.D	09/25/02	1600
15	TBQ30228	220910214	10214.D	09/25/02	1624

COMMENTS:

Page 1 of 1

2A

WATER VOLATILE ORGANIC SURROGATE RECOVERY

L Laboratories, Inc. Contract: NAS Cecil Field 103rd Street

Case No. SAS No: SDG NO.: 2209102

-624 ID: 0.18 (mm)

	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	TOT OUT
	97.2	97.8	98.0	103.8			0
	101.4	100.0	103.4	104.4			0
	98.2	98.4	101.0	104.4			0
	99.0	98.8	102.8	101.6			0
	95.0	95.8	99.0	97.6			0
	99.6	98.2	100.2	104.8			0
	99.2	97.8	101.2	106.0			0
	96.4	99.0	99.4	104.6			0
	97.0	99.4	101.0	101.4			0
	100.6	98.2	98.0	105.6			0
	98.8	98.2	99.6	101.2			0
	98.8	98.0	101.2	104.4			0
	98.4	98.8	102.4	100.0			0
	98.0	98.4	101.2	109.6			0
	101.2	99.0	100.4	102.6			0
	101.0	99.2	102.4	102.0			0

Control Limits

romofluoromethane	86 - 118
luene d8	88 - 110
Bromofluorobenzene	86 - 115
Dichloroethane-d4	80 - 120

be used to flag recovery values

utside of contract required QC limits

gates diluted out

mit source: (lab/method) METHOD

Form II

VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: PEL Laboratories, Inc. Contract: NAS Cecil Field 10

Lab Code : PEL Case No. SAS No: SDG No.: 2209102

Lab File ID: BFB31.D BFB Injection Date: 08/27/02

Instrument ID: VMS03 BFB Injection Time: 0542

GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) NO

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0% of mass 95	24.7	
75	30.0 - 60.0% of mass 95	53	
95	Base Peak, 100% relative abundance	100	
96	5.0 - 9.0% of mass 95	6.2	
173	Less than 2.0% of mass 174	0.5	(0.7)1
174	50.0 - 100.0% of mass 95	68.8	
175	5.0 - 9.0% of mass 174	4.6	(6.8)1
176	Greater than 95.0%, but less than 101.0% of mass 174	66.8	(97.1)1
177	5.0 - 9.0% of mass 176	4.6	(7)2

1-Value is % of mass 174

2-Value is % of mass 176

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	STD41573	1PPBCAL	1PPB.D	08/27/02	0654
2	STD41584	2PPBCAL	2PPB.D	08/27/02	0718
3	STD41588	5PPBCAL	5PPB.D	08/27/02	0741
4	STD41572	10PPBCAL	10PPB.D	08/27/02	0805
5	STD41574	20PPBCAL	20PPB.D	08/27/02	0829
6	STD41587	50PPBCAL	50PPB.D	08/27/02	0853
7	STD41589	60PPBCAL	60PPB.D	08/27/02	0917
8	STD41590	80PPBCAL	80PPB.D	08/27/02	0941
9	SSC41591	SEC32	SEC32.D	08/27/02	1028

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VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - BROMOFLUOROBENZENE (BFB)

ratories, Inc. Contract: NAS Cecil Field 10

Case No. SAS No: SDG No.: 2209102

BFB Injection Date: 09/25/02

303 BFB Injection Time: 0539

4 ID: 0.18 (mm) Heated Purge: (Y/N) NO

ON ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
0% of mass 95	24	
% of mass 95	53.8	
k, 100% relative abundance	100	
of mass 95	6.8	
0% of mass 174	0.2	(0.4)1
0% of mass 95	70.7	
of mass 174	5.4	(7.7)1
an 95.0%, but less than 101.0% of mass 174	70.8	(100.2)1
of mass 176	4.4	(6.2)2

% of mass 174

% of mass 176

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

EPA LE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
47063	092502CCVA31	50CCV31.D	09/25/02	0602
502LCSA31	092502LCSA31	LCS31.D	09/25/02	0626
30228MS	220910210	10210.D	09/25/02	0737
30228SD	220910211	10211.D	09/25/02	0801
02BLKA32	092502BLKA32	BLK32.D	09/25/02	0849
30228	220910209	10209.D	09/25/02	1159
30228	220910202	10202.D	09/25/02	1223
30228	220910203	10203.D	09/25/02	1247
30228	220910204	10204.D	09/25/02	1311
228	220910205	10205.D	09/25/02	1335
30228	220910206	10206.D	09/25/02	1400
30228	220910207	10207.D	09/25/02	1424
30228	220910208	10208.D	09/25/02	1448
30228	220910201	10201.D	09/25/02	1512
30228	220910212	10212.D	09/25/02	1536
30228	220910213	10213.D	09/25/02	1600
30228	220910214	10214.D	09/25/02	1624

FORM V

8A

VOLATILE ORGANIC INTERNAL STANDARD AREA SUMMARY

Lab Name: PEL Laboratories, Inc. Contract: NAS Cecil Field 103rd Street

Lab Code : PEL Case No. SAS No: SDG No.: 2209102

Lab File ID (Standard): 20PPB.D Date Analyzed: 8/27/2002

Instrument ID: VMS03 Time Analyzed: 8:29

GC Column: DB-624 ID: 0.18 (mm)

Matrix: (soil/water) WATER Heated Purge: (Y/N) NO

		IS1 AREA	#	RT	IS2 AREA	#	RT	IS3 AREA	#	RT
	MID CAL STD	408955		11.08	220008		13.50	568230		7.80
	UPPER LIMIT	817910		11.58	440016		14.00	1136460		8.30
	LOWER LIMIT	204477.5		10.58	110004		13.00	284115		7.30
	EPA SAMPLE NO.									
1	092502LCSA31	398972		11.07	207626		13.50	556405		7.79
2	11Q30228MS	394852		11.08	207540		13.50	559459		7.80
3	11Q30228SD	392094		11.08	206024		13.50	560540		7.80
4	092502BLKA32	385130		11.08	200027		13.50	540427		7.80
5	11Q30228	379872		11.08	194014		13.50	529403		7.80
6	02Q30228	375050		11.08	188574		13.50	526673		7.80
7	03Q30228	371533		11.08	190343		13.50	529700		7.80
8	04Q30228	381459		11.08	193524		13.50	539450		7.80
9	05Q30228	378410		11.08	193914		13.50	534150		7.80
10	06Q30228	378355		11.08	193558		13.50	525058		7.80
11	07Q30228	376985		11.08	196387		13.50	538917		7.80
12	10Q30228	374214		11.08	197687		13.50	524854		7.80
13	01Q30228	375335		11.08	195108		13.50	527311		7.80
14	DUPQ30228	372236		11.08	192487		13.50	523648		7.80
15	EQBQ30228	372299		11.08	193558		13.50	531644		7.80
16	TBQ30228	376090		11.08	191438		13.50	524698		7.80

IS1 = Chlorobenzene d5
IS2 = 1,4-Dichlorobenzene-d4
IS3 = Fluorobenzene

UPPER LIMIT = +100% of internal standard area.
LOWER LIMIT = -50% of internal standard area

Column used to flag internal standard area values with an asterisk

3

VOLATILE ORGANIC LAB CONTROL SAMPLE RECOVERY

EPA Sample No.

092502LCSA31

Lab Name: PEL Laboratories, Inc. Contract: NAS Cecil Field 103rd Street

Lab Code : PEL Case No. SAS No: SDG No.: 2209102

COMPOUND	SPIKE ADDED UG/L	LCS CONCENTRATION UG/L	LCS % REC #	QC LIMITS REC.
Dichlorodifluoromethane	20	16.9	84.5	56 - 144
Chloromethane	20	17.2	86.0	48 - 149
Vinyl chloride	20	17.4	87.0	66 - 128
Bromomethane	20	19.4	97.0	55 - 159
Chloroethane	20	18.8	94.0	77 - 144
Trichlorofluoromethane	20	19.7	98.5	65 - 190
1,1-Dichloroethene	20	19.6	98.0	75 - 150
Methylene chloride	20	19	95.0	81 - 129
trans-1,2-Dichloroethene	20	20.8	104.0	84 - 135
1,1-Dichloroethane	20	20.5	102.5	88 - 127
2,2-Dichloropropane	20	20.2	101.0	77 - 136
cis-1,2-Dichloroethene	20	20.8	104.0	88 - 127
Bromochloromethane	20	21	105.0	80 - 124
Chloroform	20	20.6	103.0	83 - 127
1,1,1-Trichloroethane	20	20.6	103.0	83 - 132
Carbon tetrachloride	20	19.6	98.0	74 - 140
Benzene	20	20	100.0	82 - 129
1,2-Dichloroethane	20	20.8	104.0	86 - 120
Trichloroethene	20	21	105.0	82 - 127
1,2-Dichloropropane	20	20.7	103.5	83 - 126
Dibromomethane	20	20.9	104.5	83 - 120
Bromodichloromethane	20	20.1	100.5	84 - 127
Toluene	20	20.6	103.0	82 - 128
1,1,2-Trichloroethane	20	20.4	102.0	86 - 117
Tetrachloroethene	20	20.6	103.0	87 - 124
1,3-Dichloropropane	20	19.9	99.5	85 - 115
Dibromochloromethane	20	20.7	103.5	87 - 123
1,2-Dibromoethane(EDB)	20	20.6	103.0	79 - 117
Chlorobenzene	20	20.7	103.5	87 - 117
1,1,1,2-Tetrachloroethane	20	20.8	104.0	81 - 124
Ethylbenzene	20	20.6	103.0	89 - 121
p,m-Xylene	40	41.9	104.7	89 - 119

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS:

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Form III

3

VOLATILE ORGANIC LAB CONTROL SAMPLE RECOVERY

EPA Sample No.

092502LCSA31

Lab Name: PEL Laboratories, Inc. Contract: NAS Cecil Field 103rd Street

Lab Code : PEL Case No. SAS No: SDG No.: 2209102

COMPOUND	SPIKE ADDED UG/L	LCS CONCENTRATION UG/L	LCS % REC #	QC LIMITS REC.
o-Xylene	20	20.4	102.0	86 - 120
Styrene	20	20.4	102.0	80 - 127
Bromoform	20	19.1	95.5	67 - 129
Isopropylbenzene (Cumene)	20	21.3	106.5	96 - 118
Bromobenzene	20	20.8	104.0	87 - 114
1,1,2,2-Tetrachloroethane	20	20.7	103.5	87 - 116
1,2,3-Trichloropropane	20	20.8	104.0	84 - 118
n-Propylbenzene	20	21.2	106.0	86 - 121
2-Chlorotoluene	20	20.1	100.5	92 - 113
4-Chlorotoluene	20	21.4	107.0	91 - 117
1,3,5-Trimethylbenzene	20	20.7	103.5	93 - 115
tert-Butylbenzene	20	21.2	106.0	83 - 122
1,2,4-Trimethylbenzene	20	21.7	108.5	86 - 126
sec-Butylbenzene	20	20.6	103.0	94 - 118
1,3-Dichlorobenzene	20	21.1	105.5	88 - 121
1,4-Dichlorobenzene	20	20.8	104.0	88 - 118
4-Isopropyltoluene	20	20.9	104.5	94 - 118
n-Butylbenzene	20	20.3	101.5	86 - 124
1,2-Dichlorobenzene	20	20.7	103.5	91 - 116
1,2-Dibromo-3-chloropropane	20	18.6	93.0	82 - 127
1,2,4-Trichlorobenzene	20	21.4	107.0	84 - 124
Hexachlorobutadiene	20	20.5	102.5	90 - 137
Naphthalene	20	23.5	117.5	82 - 130
1,2,3-Trichlorobenzene	20	21.8	109.0	91 - 122
Xylene (total)	60	62.2	103.7	82 - 124

Spike Recovery: 0 out of 57 outside limits

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS:

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Form III

3

VOLATILE ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Sample No.

11Q30228MS

Lab Name: PEL Laboratories, Inc. Contract: NAS Cecil Field 103rd

Lab Code : PEL Case No. SAS No: SDG No.: 2209102

COMPOUND	SPIKE ADDED UG/L	SAMPLE CONCENTRATION UG/L	MS CONCENTRATION UG/L	MS % REC #	QC LIMITS REC.
Dichlorodifluoromethane	20	0	19.1	95.5	54 - 127
Chloromethane	20	0	19.4	97.0	74 - 113
Vinyl chloride	20	0	18.5	92.5	60 - 118
Bromomethane	20	0	20.7	103.5	88 - 117
Chloroethane	20	0	20.9	104.5	90 - 117
Trichlorofluoromethane	20	0	21.8	109.0	65 - 162
1,1-Dichloroethene	20	0	20.6	103.0	84 - 129
Methylene chloride	20	0	19.9	99.5	75 - 133
trans-1,2-Dichloroethene	20	0	21.8	109.0	73 - 141
1,1-Dichloroethane	20	0	21.6	108.0	79 - 135
2,2-Dichloropropane	20	0	22.2	111.0	78 - 143
cis-1,2-Dichloroethene	20	0	21.5	107.5	77 - 128
Bromochloromethane	20	0	21.9	109.5	76 - 130
Chloroform	20	0	21.3	106.5	76 - 134
1,1,1-Trichloroethane	20	0	22	110.0	79 - 134
Carbon tetrachloride	20	0	21.4	107.0	75 - 132
Benzene	20	0	21.6	108.0	51 - 141
1,2-Dichloroethane	20	0	22.1	110.5	80 - 133
Trichloroethene	20	0	22.1	110.5	76 - 128
1,2-Dichloropropane	20	0	22.1	110.5	79 - 128
Dibromomethane	20	0	21.4	107.0	83 - 119
Bromodichloromethane	20	0	20.8	104.0	79 - 130
Toluene	20	0	22.3	111.5	75 - 132
1,1,2-Trichloroethane	20	0	21.7	108.5	77 - 126
Tetrachloroethene	20	0	22.9	114.5	86 - 120
1,3-Dichloropropane	20	0	22.1	110.5	84 - 120
Dibromochloromethane	20	0	22	110.0	80 - 128
1,2-Dibromoethane(EDB)	20	0	21.9	109.5	75 - 124
Chlorobenzene	20	0	22.3	111.5	82 - 123
1,1,1,2-Tetrachloroethane	20	0	22.4	112.0	78 - 131

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS:

Form III

270902 1430

3

VOLATILE ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Sample No.

Lab Name: PEL Laboratories, Inc. Contract: NAS Cecil Field 103rd 11Q30228MS

Lab Code : PEL Case No. SAS No: SDG No.: 2209102

COMPOUND	SPIKE ADDED UG/L	SAMPLE CONCENTRATION UG/L	MS CONCENTRATION UG/L	MS % REC #	QC LIMITS REC.
Ethylbenzene	20	0	22.5	112.5	77 - 124
p,m-Xylene	40	0	46	115.0	83 - 121
o-Xylene	20	0	22.3	111.5	88 - 121
Styrene	20	0	22.4	112.0	83 - 127
Bromoform	20	0	19.5	97.5	78 - 121
Isopropylbenzene (Cumene)	20	0	22.9	114.5	81 - 128
Bromobenzene	20	0	22.7	113.5	83 - 119
1,1,2,2-Tetrachloroethane	20	0	22.7	113.5	88 - 117
1,2,3-Trichloropropane	20	0	22.7	113.5	75 - 129
n-Propylbenzene	20	0	22.9	114.5	81 - 127
2-Chlorotoluene	20	0	22.3	111.5	87 - 116
4-Chlorotoluene	20	0	22.8	114.0	84 - 121
1,3,5-Trimethylbenzene	20	0	23.1	115.5 *	94 - 109
tert-Butylbenzene	20	0	23	115.0	78 - 128
1,2,4-Trimethylbenzene	20	0	23	115.0	74 - 131
sec-Butylbenzene	20	0	22.4	112.0	80 - 130
1,3-Dichlorobenzene	20	0	22.5	112.5	81 - 130
1,4-Dichlorobenzene	20	0	22.1	110.5	80 - 125
4-Isopropyltoluene	20	0	22.7	113.5	82 - 129
n-Butylbenzene	20	0	22.3	111.5	78 - 136
1,2-Dichlorobenzene	20	0	21.8	109.0	81 - 126
1,2-Dibromo-3-chloropropane	20	0	21	105.0	81 - 123
1,2,4-Trichlorobenzene	20	0	22.6	113.0	75 - 133
Hexachlorobutadiene	20	0	21.8	109.0	69 - 144
Naphthalene	20	0	24.6	123.0	69 - 140
1,2,3-Trichlorobenzene	20	0	23.2	116.0	75 - 138
Xylene (total)	60	0	68.3	113.8	86 - 129

Spike Recovery: 1 out of 57 outside limits

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS:

Form III

270902 1430

3

VOLATILE ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Sample No.

Lab Name: PEL Laboratories, Inc. Contract: NAS Cecil Field 10 11Q30228SD

Lab Code : PEL Case No. SAS No: SDG No.: 2209102

COMPOUND	SPIKE ADDED UG/L	MSD CONCENTRATION UG/L	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Dichlorodifluoromethane	20	18.9	94.5	1.1	21	54 - 127
Chloromethane	20	18.9	94.5	2.6	18	74 - 113
Vinyl chloride	20	18.7	93.5	1.1	24	60 - 118
Bromomethane	20	21.1	105.5	1.9	20	88 - 117
Chloroethane	20	20.5	102.5	1.9	12	90 - 117
Trichlorofluoromethane	20	21.5	107.5	1.4	14	65 - 162
1,1-Dichloroethene	20	19.5	97.5	5.5	14	84 - 129
Methylene chloride	20	18.8	94.0	5.7	9	75 - 133
trans-1,2-Dichloroethene	20	20.5	102.5	6.1	14	73 - 141
1,1-Dichloroethane	20	20.6	103.0	4.7	10	79 - 135
2,2-Dichloropropane	20	20.2	101.0	9.4	13	78 - 143
cis-1,2-Dichloroethene	20	20.5	102.5	4.8	11	77 - 128
Bromochloromethane	20	21	105.0	4.2	12	76 - 130
Chloroform	20	19.8	99.0	7.3	13	76 - 134
1,1,1-Trichloroethane	20	20.5	102.5	7.1	12	79 - 134
Carbon tetrachloride	20	19.5	97.5	9.3	15	75 - 132
Benzene	20	20.2	101.0	6.7	10	51 - 141
1,2-Dichloroethane	20	20.8	104.0	6.1	8	80 - 133
Trichloroethene	20	21	105.0	5.1	13	76 - 128
1,2-Dichloropropane	20	20.6	103.0	7.0	11	79 - 128
Dibromomethane	20	20.4	102.0	4.8	13	83 - 119
Bromodichloromethane	20	20	100.0	3.9	13	79 - 130
Toluene	20	20.7	103.5	7.4	13	75 - 132
1,1,2-Trichloroethane	20	20.3	101.5	6.7	13	77 - 126
Tetrachloroethene	20	21.3	106.5	7.2	11	86 - 120
1,3-Dichloropropane	20	20.6	103.0	7.0	10	84 - 120
Dibromochloromethane	20	21	105.0	4.7	12	80 - 128
1,2-Dibromoethane(EDB)	20	21	105.0	4.2	11	75 - 124
Chlorobenzene	20	20.8	104.0	7.0	12	82 - 123
1,1,1,2-Tetrachloroethane	20	21.1	105.5	6.0	14	78 - 131

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS:

Form III

270902 1430

3

VOLATILE ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Sample No.

Lab Name: PEL Laboratories, Inc. Contract: NAS Cecil Field 10 11Q30228SD

Lab Code : PEL Case No. SAS No: SDG No.: 2209102

COMPOUND	SPIKE ADDED UG/L	MSD CONCENTRATION UG/L	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Ethylbenzene	20	20.8	104.0	7.9	13	77 - 124
p,m-Xylene	40	43.2	108.0	6.3	10	83 - 121
o-Xylene	20	21.1	105.5	5.5	10	88 - 121
Styrene	20	21	105.0	6.5	13	83 - 127
Bromoform	20	18.8	94.0	3.7	10	78 - 121
Isopropylbenzene (Cumene)	20	21.2	106.0	7.7	10	81 - 128
Bromobenzene	20	21	105.0	7.8	12	83 - 119
1,1,2,2-Tetrachloroethane	20	21.1	105.5	7.3	9	88 - 117
1,2,3-Trichloropropane	20	21.3	106.5	6.4	15	75 - 129
n-Propylbenzene	20	21.4	107.0	6.8	16	81 - 127
2-Chlorotoluene	20	20.8	104.0	7.0	11	87 - 116
4-Chlorotoluene	20	21.5	107.5	5.9	10	84 - 121
1,3,5-Trimethylbenzene	20	21.2	106.0	8.6	14	94 - 109
tert-Butylbenzene	20	21.3	106.5	7.7	20	78 - 128
1,2,4-Trimethylbenzene	20	21.7	108.5	5.8	16	74 - 131
sec-Butylbenzene	20	20.7	103.5	7.9	13	80 - 130
1,3-Dichlorobenzene	20	21	105.0	6.9	13	81 - 130
1,4-Dichlorobenzene	20	20.8	104.0	6.1	11	80 - 125
4-Isopropyltoluene	20	21.2	106.0	6.8	11	82 - 129
n-Butylbenzene	20	20.7	103.5	7.4	16	78 - 136
1,2-Dichlorobenzene	20	20.8	104.0	4.7	13	81 - 126
1,2-Dibromo-3-chloropropane	20	19.7	98.5	6.4	17	81 - 123
1,2,4-Trichlorobenzene	20	21.4	107.0	5.5	11	75 - 133
Hexachlorobutadiene	20	20.7	103.5	5.2	18	69 - 144
Naphthalene	20	23.7	118.5	3.7	11	69 - 140
1,2,3-Trichlorobenzene	20	22.4	112.0	3.5	11	75 - 138
Xylene (total)	60	64.3	107.2	6.0	9	86 - 129

RPD: 0 out of 57 outside limits

Spike Recovery: 0 out of 57 outside limits

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS:

Form III

270902 1430

Standards Data

2705902 1430

VOLATILE ORGANIC INITIAL CALIBRATION DATA

Lab Name: PEL Laboratories, Inc. Contract: NAS Cecil Field 10

Lab Code : PEL Case No. SAS No: SDG No.: 2209102

Instrument ID: VMS03 Calibration Date: 08/27/02

GC Column: DB-624 ID: 0.18 (mm) Calibration Time: 0941

Min RRF for SPCC(#) = 0.1 Max %RSD for CCC(*) = 30 %

LAB FILE ID: RRF1 =1PPB.D RRF2 =2PPB.D
RRF5 =5PPB.D RRF10 =10PPB.D RRF20 =20PPB.D

COMPOUND		RRF1	RRF2	RRF5	RRF10	RRF20	$\overline{RRF}$	%RSD OR R^2	
Dichlorodifluoromethane		0.459	0.421	0.509	0.471	0.453			
Chloromethane	#	0.668	0.583	0.606	0.544	0.539			#
Vinyl chloride	*	0.507	0.449	0.474	0.398	0.380			*
Bromomethane		0.183	0.232	0.234	0.211	0.207			
Chloroethane		0.247	0.253	0.271	0.264	0.252			
Trichlorofluoromethane		0.358	0.345	0.368	0.336	0.339			
1,1-Dichloroethene	*	0.486	0.569	0.537	0.449	0.525			*
Methylene chloride		0.649	0.610	0.566	0.503	0.541			
trans-1,2-Dichloroethene		0.414	0.512	0.487	0.415	0.477			
1,1-Dichloroethane	#	0.518	0.597	0.607	0.532	0.609			#
2,2-Dichloropropane		0.313	0.332	0.312	0.263	0.292			
cis-1,2-Dichloroethene		0.255	0.294	0.322	0.271	0.307			
Bromochloromethane		0.095	0.148	0.131	0.118	0.130			
Chloroform	*	0.491	0.562	0.552	0.495	0.542			*
1,1,1-Trichloroethane		0.373	0.436	0.431	0.399	0.451			
Carbon tetrachloride		0.304	0.377	0.358	0.293	0.339			
Benzene		1.110	1.318	1.216	1.063	1.187			
1,2-Dichloroethane		0.419	0.518	0.493	0.453	0.513			
Trichloroethene		0.246	0.274	0.273	0.243	0.278			
1,2-Dichloropropane	*	0.295	0.347	0.344	0.301	0.355			*
Dibromomethane		0.132	0.189	0.178	0.159	0.177			
Bromodichloromethane		0.359	0.407	0.409	0.352	0.415			
Toluene	*	0.630	0.716	0.719	0.627	0.707			*
1,1,2-Trichloroethane		0.226	0.245	0.249	0.233	0.254			
Tetrachloroethene		0.261	0.327	0.313	0.261	0.300			
1,3-Dichloropropane		0.585	0.710	0.658	0.600	0.671			
Dibromochloromethane		0.256	0.330	0.316	0.299	0.357			
1,2-Dibromoethane(EDB)		0.319	0.335	0.324	0.299	0.350			
Chlorobenzene	#	0.902	1.092	1.048	0.931	1.042			#
1,1,1,2-Tetrachloroethane		0.255	0.325	0.335	0.282	0.330			
Ethylbenzene	*	0.477	0.595	0.557	0.498	0.552			*
p,m-Xylene		0.601	0.687	0.694	0.616	0.699			
o-Xylene		1.352	1.510	1.459	1.334	1.514			
Styrene		0.944	1.169	1.162	1.045	1.185			

VOLATILE ORGANIC INITIAL CALIBRATION DATA

Lab Name: PEL Laboratories, Inc. Contract: NAS Cecil Field 10

Lab Code : PEL Case No. SAS No: SDG No.: 2209102

Instrument ID: VMS03 Calibration Date: 08/27/02

GC Column: DB-624 ID: 0.18 (mm) Calibration Time: 0941

Min RRF for SPCC(#) = 0.1 Max %RSD for CCC(*) = 30 %

LAB FILE ID: RRF1 =1PPB.D RRF2 =2PPB.D
RRF5 =5PPB.D RRF10 =10PPB.D RRF20 =20PPB.D

COMPOUND	RRF1	RRF2	RRF5	RRF10	RRF20	$\overline{RRF}$	%RSD OR R^2
Bromoform	# 0.135	0.189	0.185	0.168	0.203		#
Isopropylbenzene (Cumene)	2.844	3.359	3.336	2.932	3.313		
Bromobenzene	1.407	1.647	1.579	1.458	1.591		
1,1,2,2-Tetrachloroethane	# 0.769	0.853	0.843	0.787	0.870		#
1,2,3-Trichloropropane	0.255	0.249	0.257	0.239	0.267		
n-Propylbenzene	3.510	4.113	4.062	3.615	4.140		
2-Chlorotoluene	2.653	2.954	2.928	2.591	2.806		
4-Chlorotoluene	2.469	2.910	2.715	2.367	2.805		
1,3,5-Trimethylbenzene	2.488	2.830	2.870	2.577	2.924		
tert-Butylbenzene	2.230	2.659	2.660	2.394	2.676		
1,2,4-Trimethylbenzene	2.393	2.849	2.758	2.538	2.828		
sec-Butylbenzene	2.989	3.518	3.467	3.067	3.437		
1,3-Dichlorobenzene	1.465	1.683	1.575	1.368	1.533		
1,4-Dichlorobenzene	1.503	1.617	1.576	1.432	1.580		
4-Isopropyltoluene	2.488	2.856	2.918	2.602	2.948		
n-Butylbenzene	2.408	2.532	2.533	2.354	2.660		
1,2-Dichlorobenzene	1.350	1.604	1.434	1.328	1.470		
1,2-Dibromo-3-chloropropane	0.127	0.143	0.148	0.138	0.173		
1,2,4-Trichlorobenzene	0.837	1.020	1.054	0.951	1.037		
Hexachlorobutadiene	0.172	0.231	0.234	0.226	0.230		
Naphthalene	2.094	2.207	2.146	2.150	2.428		
1,2,3-Trichlorobenzene	0.759	0.910	0.907	0.876	0.934		
Xylene (total)	0.609	0.687	0.679	0.617	0.699		
Dibromofluoromethane(SURR)		0.242	0.246	0.256	0.254		
Toluene d8(SURR)		0.995	1.067	1.059	1.078		
4-Bromofluorobenzene(SURR)		1.014	1.060	1.102	1.057		
1,2-Dichloroethane-d4(SURR)		0.050	0.059	0.058	0.064		

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VOLATILE ORGANIC INITIAL CALIBRATION DATA

Lab Name: PEL Laboratories, Inc. Contract: NAS Cecil Field 10

Lab Code : PEL Case No. SAS No: SDG No.: 2209102

Instrument ID: VMS03 Calibration Date: 08/27/02

GC Column: DB-624 ID: 0.18 (mm) Calibration Time: 0941

Min RRF for SPCC(#) = 0.1 Max %RSD for CCC(*) = 30 %

LAB FILE ID: RRF50 =50PPB.D RRF60 =60PPB.D
RRF80 =80PPB.D

COMPOUND		RRF50	RRF60	RRF80			$\overline{RRF}$	%RSD OR R^2	
Dichlorodifluoromethane		0.452	0.483	0.474			0.46531	5.5	
Chloromethane	#	0.522	0.557	0.543			0.57025	8.4	#
Vinyl chloride	*	0.340	0.363	0.350			0.40765	15.2	*
Bromomethane		0.200	0.208	0.202			0.20963	8	
Chloroethane		0.248	0.255	0.252			0.25518	3.2	
Trichlorofluoromethane		0.330	0.377	0.370			0.35296	5	
1,1-Dichloroethene	*	0.527	0.547	0.553			0.52413	7.5	*
Methylene chloride		0.555	0.566	0.565			0.56923	7.7	
trans-1,2-Dichloroethene		0.483	0.488	0.495			0.47131	7.7	
1,1-Dichloroethane	#	0.613	0.627	0.619			0.59023	7	#
2,2-Dichloropropane		0.288	0.301	0.294			0.29943	6.9	
cis-1,2-Dichloroethene		0.308	0.314	0.311			0.2979	7.8	
Bromochloromethane		0.137	0.141	0.136			0.12965	12.7	
Chloroform	*	0.547	0.562	0.558			0.53862	5.4	*
1,1,1-Trichloroethane		0.456	0.466	0.468			0.43494	7.7	
Carbon tetrachloride		0.366	0.382	0.382			0.34996	10	
Benzene		1.202	1.244	1.236			1.19704	6.6	
1,2-Dichloroethane		0.530	0.528	0.521			0.49697	8.1	
Trichloroethene		0.273	0.289	0.287			0.27028	6.3	
1,2-Dichloropropane	*	0.360	0.363	0.368			0.3415	8.2	*
Dibromomethane		0.179	0.186	0.184			0.17311	10.9	
Bromodichloromethane		0.428	0.440	0.436			0.40569	8.2	
Toluene	*	0.709	0.735	0.740			0.69789	6.4	*
1,1,2-Trichloroethane		0.257	0.261	0.258			0.24784	5	
Tetrachloroethene		0.296	0.304	0.308			0.29626	8	
1,3-Dichloropropane		0.676	0.682	0.693			0.65928	6.7	
Dibromochloromethane		0.371	0.373	0.393			0.33689	13.5	
1,2-Dibromoethane(EDB)		0.352	0.353	0.363			0.33695	6.4	
Chlorobenzene	#	1.061	1.067	1.097			1.03005	7.1	#
1,1,1,2-Tetrachloroethane		0.345	0.356	0.365			0.32403	11.6	
Ethylbenzene	*	0.565	0.581	0.586			0.55119	7.7	*
p,m-Xylene		0.699	0.720	0.720			0.67943	6.7	
o-Xylene		1.523	1.556	1.583			1.47878	6.2	
Styrene		1.220	1.236	1.269			1.15364	9.4	

VOLATILE ORGANIC INITIAL CALIBRATION DATA

Lab Name: PEL Laboratories, Inc. Contract: NAS Cecil Field 10

Lab Code : PEL Case No. SAS No: SDG No.: 2209102

Instrument ID: VMS03 Calibration Date: 08/27/02

GC Column: DB-624 ID: 0.18 (mm) Calibration Time: 0941

Min RRF for SPCC(#) = 0.1 Max %RSD for CCC(*) = 30 %

LAB FILE ID: RRF50 =50PPB.D RRF60 =60PPB.D
RRF80 =80PPB.D

COMPOUND	RRF50	RRF60	RRF80			$\overline{RRF}$	%RSD OR R^2
Bromoform #	0.220	0.220	0.233			0.19399	0.9981 #
Isopropylbenzene (Cumene)	3.347	3.402	3.429			3.24535	6.9
Bromobenzene	1.612	1.597	1.661			1.5691	5.7
1,1,2,2-Tetrachloroethane #	0.851	0.849	0.853			0.83447	4.3 #
1,2,3-Trichloropropane	0.246	0.258	0.260			0.25364	3.5
n-Propylbenzene	4.220	4.301	4.336			4.03718	7.6
2-Chlorotoluene	2.918	2.991	2.952			2.84921	5.3
4-Chlorotoluene	2.711	2.743	2.813			2.69161	6.8
1,3,5-Trimethylbenzene	2.926	2.964	2.978			2.81973	6.6
tert-Butylbenzene	2.763	2.798	2.854			2.62952	8.1
1,2,4-Trimethylbenzene	2.866	2.937	2.980			2.76859	7.3
sec-Butylbenzene	3.488	3.641	3.629			3.40453	7.2
1,3-Dichlorobenzene	1.560	1.575	1.602			1.54522	6.1
1,4-Dichlorobenzene	1.626	1.618	1.642			1.57417	4.6
4-Isopropyltoluene	3.004	3.100	3.145			2.88266	8
n-Butylbenzene	2.747	2.804	2.830			2.60852	6.9
1,2-Dichlorobenzene	1.477	1.495	1.493			1.45637	6
1,2-Dibromo-3-chloropropane	0.180	0.181	0.186			0.15942	0.99925
1,2,4-Trichlorobenzene	1.076	1.082	1.081			1.01722	8.3
Hexachlorobutadiene	0.235	0.245	0.242			0.22694	10.1
Naphthalene	2.487	2.519	2.508			2.31738	8
1,2,3-Trichlorobenzene	0.967	0.962	0.970			0.91054	7.7
Xylene (total)	0.703	0.725	0.717			0.67951	6.4
==========							
Dibromofluoromethane(SURR)	0.256	0.257	0.246			0.25083	2.5
Toluene d8(SURR)	1.083	1.095	1.065			1.06307	3
4-Bromofluorobenzene(SURR)	1.060	1.093	1.067			1.06481	2.7
1,2-Dichloroethane-d4(SURR)	0.065	0.064	0.063			0.06057	8.9

7SSC

VOLATILE ORGANIC SECONDARY SOURCE CALIBRATION DATA

Lab Name: PEL Laboratories, Inc. Contract: NAS Cecil Field 10

Lab Code : PEL Case No. SAS No: SDG No.: 2209102

Instrument ID: VMS03 CalibrationDate: 08/27/02 Time: 1028

Lab File ID: SEC32.D Init. Calib. Date: 08/27/02

GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) NO

Min RRF for SPCC(#) = 0.1 Max %D for CCC(*) = 20 %

COMPOUND		$\overline{RRF}$	RRF0	%D	
Dichlorodifluoromethane		0.46531	0.48004	3.2	
Chloromethane	#	0.57025	0.5417	5.0	#
Vinyl chloride	*	0.40765	0.36332	10.9	*
Bromomethane		0.20963	0.21097	0.6	
Chloroethane		0.25518	0.2575	0.9	
Trichlorofluoromethane		0.35296	0.37585	6.5	
1,1-Dichloroethene	*	0.52413	0.54172	3.4	*
Methylene chloride		0.56923	0.56413	0.9	
trans-1,2-Dichloroethene		0.47131	0.50421	7.0	
1,1-Dichloroethane	#	0.59023	0.62741	6.3	#
2,2-Dichloropropane		0.29943	0.32131	7.3	
cis-1,2-Dichloroethene		0.2979	0.31396	5.4	
Bromochloromethane		0.12965	0.13879	7.0	
Chloroform	*	0.53862	0.55921	3.8	*
1,1,1-Trichloroethane		0.43494	0.45986	5.7	
Carbon tetrachloride		0.34996	0.37536	7.3	
Benzene		1.19704	1.238	3.4	
1,2-Dichloroethane		0.49697	0.52896	6.4	
Trichloroethene		0.27028	0.28741	6.3	
1,2-Dichloropropane	*	0.3415	0.3613	5.8	*
Dibromomethane		0.17311	0.18186	5.1	
Bromodichloromethane		0.40569	0.4262	5.1	
Toluene	*	0.69789	0.73062	4.7	*
1,1,2-Trichloroethane		0.24784	0.25646	3.5	
Tetrachloroethene		0.29626	0.3091	4.3	
1,3-Dichloropropane		0.65928	0.6906	4.8	
Dibromochloromethane		0.33689	0.37181	10.4	
1,2-Dibromoethane(EDB)		0.33695	0.35036	4.0	
Chlorobenzene	#	1.03005	1.103	7.1	#
1,1,1,2-Tetrachloroethane		0.32403	0.35924	10.9	
Ethylbenzene	*	0.55119	0.58962	7.0	*
p,m-Xylene		0.67943	0.72684	7.0	
o-Xylene		1.47878	1.586	7.3	
Styrene		1.15364	1.258	9.0	
Bromoform	#	0.19399	0.21681	3.2	#
Isopropylbenzene (Cumene)		3.24535	3.497	7.8	

7SSC

VOLATILE ORGANIC SECONDARY SOURCE CALIBRATION DATA

Lab Name: PEL Laboratories, Inc. Contract: NAS Cecil Field 10

Lab Code : PEL Case No. SAS No: SDG No.: 2209102

Instrument ID: VMS03 CalibrationDate: 08/27/02 Time: 1028

Lab File ID: SEC32.D Init. Calib. Date: 08/27/02

GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) NO

Min RRF for SPCC(#) = 0.1 Max %D for CCC(*) = 20 %

COMPOUND	$\overline{RRF}$	RRF0	%D
Bromobenzene	1.5691	1.643	4.7
1,1,2,2-Tetrachloroethane #	0.83447	0.87033	4.3 #
1,2,3-Trichloropropane	0.25364	0.26404	4.1
n-Propylbenzene	4.03718	4.441	10.0
2-Chlorotoluene	2.84921	3.037	6.6
4-Chlorotoluene	2.69161	2.817	4.7
1,3,5-Trimethylbenzene	2.81973	3.048	8.1
tert-Butylbenzene	2.62952	2.861	8.8
1,2,4-Trimethylbenzene	2.76859	2.986	7.9
sec-Butylbenzene	3.40453	3.705	8.8
1,3-Dichlorobenzene	1.54522	1.621	4.9
1,4-Dichlorobenzene	1.57417	1.642	4.3
4-Isopropyltoluene	2.88266	3.143	9.0
n-Butylbenzene	2.60852	2.923	12.1
1,2-Dichlorobenzene	1.45637	1.501	3.1
1,2-Dibromo-3-chloropropane	0.15942	0.18264	0.2
1,2,4-Trichlorobenzene	1.01722	1.115	9.6
Hexachlorobutadiene	0.22694	0.25835	13.8
Naphthalene	2.31738	2.582	11.4
1,2,3-Trichlorobenzene	0.91054	0.99969	9.8
Xylene (total)	0.67951	0.7252	6.7
==========			
Dibromofluoromethane	0.25083	0.24078	4.0
Toluene d8	1.06307	1.055	0.8
4-Bromofluorobenzene	1.06481	1.063	0.2
1,2-Dichloroethane-d4	0.06057	0.06078	0.3

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FORM VII

7

VOLATILE ORGANIC CONTINUING CALIBRATION DATA

Lab Name: PEL Laboratories, Inc. Contract: NAS Cecil Field 10

Lab Code : PEL Case No. SAS No: SDG No.: 2209102

Instrument ID: VMS03 CalibrationDate: 09/25/02 Time: 0602

Lab File ID: 50CCV31.D Init. Calib. Date: 08/27/02

GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) NO

Min RRF for SPCC(#) = 0.1 Max %D for CCC(*) = 20 %

COMPOUND		$\overline{RRF}$	RRF50	%D	
Dichlorodifluoromethane		0.46531	0.41257	11.3	
Chloromethane	#	0.57025	0.50246	11.9	#
Vinyl chloride	*	0.40765	0.34511	15.3	*
Bromomethane		0.20963	0.20499	2.2	
Chloroethane		0.25518	0.24846	2.6	
Trichlorofluoromethane		0.35296	0.38624	9.4	
1,1-Dichloroethene	*	0.52413	0.51594	1.6	*
Methylene chloride		0.56923	0.53551	5.9	
trans-1,2-Dichloroethene		0.47131	0.48129	2.1	
1,1-Dichloroethane	#	0.59023	0.60781	3.0	#
2,2-Dichloropropane		0.29943	0.30855	3.0	
cis-1,2-Dichloroethene		0.2979	0.31485	5.7	
Bromochloromethane		0.12965	0.1379	6.4	
Chloroform	*	0.53862	0.54116	0.5	*
1,1,1-Trichloroethane		0.43494	0.45293	4.1	
Carbon tetrachloride		0.34996	0.3567	1.9	
Benzene		1.19704	1.207	0.8	
1,2-Dichloroethane		0.49697	0.51158	2.9	
Trichloroethene		0.27028	0.28112	4.0	
1,2-Dichloropropane	*	0.3415	0.35735	4.6	*
Dibromomethane		0.17311	0.18285	5.6	
Bromodichloromethane		0.40569	0.42374	4.4	
Toluene	*	0.69789	0.7201	3.2	*
1,1,2-Trichloroethane		0.24784	0.25996	4.9	
Tetrachloroethene		0.29626	0.30384	2.6	
1,3-Dichloropropane		0.65928	0.67943	3.1	
Dibromochloromethane		0.33689	0.37693	11.9	
1,2-Dibromoethane(EDB)		0.33695	0.35333	4.9	
Chlorobenzene	#	1.03005	1.06	2.9	#
1,1,1,2-Tetrachloroethane		0.32403	0.35384	9.2	
Ethylbenzene	*	0.55119	0.56248	2.0	*
p,m-Xylene		0.67943	0.70811	4.2	
o-Xylene		1.47878	1.54	4.1	
Styrene		1.15364	1.208	4.7	
Bromoform	#	0.19399	0.22234	0.8	#
Isopropylbenzene (Cumene)		3.24535	3.45	6.3	

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VOLATILE ORGANIC CONTINUING CALIBRATION DATA

Laboratories, Inc. Contract: NAS Cecil Field 10

Case No. SAS No: SDG No.: 2209102

MS03 CalibrationDate: 09/25/02 Time: 0602

CCV31.D Init. Calib. Date: 08/27/02

B-624 ID: 0.18 (mm) Heated Purge: (Y/N) NO

CC(#) = 0.1 Max %D for CCC(*) = 20 %

COMPOUND		RRF	RRF50	%D	
Bromobenzene		1.5691	1.616	3.0	
1,1,2,2-Tetrachloroethane	#	0.83447	0.87701	5.1	#
2,3-Trichloropropane		0.25364	0.26441	4.2	
Propylbenzene		4.03718	4.297	6.4	
2-Chlorotoluene		2.84921	3.002	5.4	
4-Chlorotoluene		2.69161	2.746	2.0	
5-Trimethylbenzene		2.81973	2.989	6.0	
tert-Butylbenzene		2.62952	2.796	6.3	
1,2,4-Trimethylbenzene		2.76859	2.922	5.5	
sec-Butylbenzene		3.40453	3.524	3.5	
3-Dichlorobenzene		1.54522	1.606	3.9	
1,4-Dichlorobenzene		1.57417	1.63	3.5	
4-Isopropyltoluene		2.88266	3.035	5.3	
n-Butylbenzene		2.60852	2.731	4.7	
1,2-Dichlorobenzene		1.45637	1.491	2.4	
2-Dibromo-3-chloropropane		0.15942	0.19358	6.2	
2,4-Trichlorobenzene		1.01722	1.074	5.6	
Hexachlorobutadiene		0.22694	0.23017	1.4	
Naphthalene		2.31738	2.662	14.9	
1,2,3-Trichlorobenzene		0.91054	0.98475	8.2	
Xylene (total)		0.67951	0.70961	4.4	
Dibromofluoromethane		0.25083	0.24943	0.6	
Toluene d8		1.06307	1.058	0.5	
4-Bromofluorobenzene		1.06481	1.056	0.8	
1,2-Dichloroethane-d4		0.06057	0.06119	1.0	

FORM VII

HPLC PAH ORGANICS

METHOD 8310

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CASE NARRATIVE
HPLC SEMIVOLATILE ORGANICS

Reference No./SDG: 2209102

H2M Hill

RECEIPT

exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody or a communication form is included in the addendum with this package.

HOLDING TIMES

A. **Sample Preparation:** All holding times were met.

B. **Sample Analysis:** All holding times were met.

METHODS

846/EPA 8310

PREPARATION

samples were prepared by SW846 EPA 3510 for 8310 semi-volatile analysis.

ANALYSIS

A. **Calibration:**

All acceptance criteria were met.

B. **Blanks:**

All acceptance criteria were met.

C. **Surrogates:**

All acceptance criteria were met.

D. **Spikes:**

1. **Laboratory Control Spikes (LCS)**

All acceptance criteria were met.

CASE NARRATIVE
HPLC SEMIVOLATILE ORGANICS

PEL Lab Reference No./SDG: 2209102

Client: CH2M Hill

2. Matrix Spike/Matrix Spike Duplicate Samples (MS/SD)

A client requested MS/SD set was analyzed.
All percent recovery and relative percent difference(RPD) criteria were met with the exception of:
MS - 11Q30228MS was analyzed with the water samples extracted on 09/16/02. The following analyte(s) were recovered below criteria: 1-Methylnaphthalene at 32.1 % with criteria of (48-92), 2-Methylnaphthalene at 43.1 % with criteria of (52-88), Acenaphthene at 37.6 % with criteria of (52-86), Acenaphthylene at 44.6 % with criteria of (50-91), Naphthalene at 42.2 % with criteria of (45-78).

SD - 11Q30228SD was analyzed with the water samples extracted on 09/16/02. The following analyte(s) were recovered below criteria: 1-Methylnaphthalene at 37.7 % with criteria of (48-92), 2-Methylnaphthalene at 50 % with criteria of (52-88), Acenaphthene at 43.4 % with criteria of (52-86), Acenaphthylene at 49.6 % with criteria of (50-91).

Samples and quality control were re-analyzed with similar results but only one set of data was reported. Since the LCS met all criteria, no further action was taken. The most likely cause of the analyte failures was matrix effect.

E. Internal Standards:

This method does not require the use of internal standards.

F. Samples:

Sample analysis proceeded normally.

Analysis indicates that sample DUPQ30228 is probably a duplicate of 07Q30228.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and PEL, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as, verified by the following signature.

SIGNED: _____ **DATE:** 9-27-02

PAH ORGANIC CROSS REFERENCE TABLE

Lab Name: PEL Laboratories, Inc. Contract: NAS Cecil Field 103rd Street

Lab Code : PEL Case No. SAS No: SDG No.: 2209102

Method: 8310

EPA Sample No	Lab Sample ID
01Q30228	220910201
02Q30228	220910202
03Q30228	220910203
04Q30228	220910204
05Q30228	220910205
06Q30228	220910206
07Q30228	220910207
10Q30228	220910208
11Q30228	220910209
DUPQ30228	220910212
EQBQ30228	220910213

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Sample Data

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PAH ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Laboratories, Inc.	Contract: NAS Cecil Field 10	01Q30228	
Case No.	SAS No:	SDG No.: 2209102	
	Lab Sample ID: 220910201	Lab File ID: 102-1.D	
Units: ML	Date Received: 09/14/02		
Volume: 1	Date Extracted: 09/16/02		
OW	Date Analyzed: 09/19/02	Time: 2221	
decanted :	Dilution Factor: 1		
	Station ID: CEF-103-SMW-0	Method: 8310	
N pH:			
201TP54 ID: 4.6 (mm)			
UNITS: UG/L			

ANALYTE	RESULT	Q
Naphthalene	0.21	U
Acenaphthylene	0.21	U
1-Methylnaphthalene	0.21	U
2-Methylnaphthalene	0.21	U
Acenaphthene	0.21	U
Fluorene	0.21	U
Phenanthrene	0.21	U
Anthracene	0.21	U
Fluoranthene	0.21	U
Pyrene	0.21	U
Benzo(a)anthracene	0.21	U
Chrysene	0.21	U
Benzo(b)fluoranthene	0.21	U
Benzo(k)fluoranthene	0.21	U
Benzo(a)pyrene	0.21	U
Dibenz(a,h)anthracene	0.21	U
Benzo(g,h,i)perylene	0.21	U
Indeno(1,2,3-cd)pyrene	0.21	U

Form I

1

PAH ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

02Q30228

Lab Name: PEL Laboratories, Inc. Contract: NAS Cecil Field 10

Lab Code : PEL Case No. SAS No: SDG No.: 2209102

Matrix: WATER Lab Sample ID: 220910202 Lab File ID: 102-2.D

Sample wt/vol: 950 Units: ML Date Received: 09/14/02

Concentrated Extract Volume: 1 Date Extracted: 09/16/02

Level:(low/med) LOW Date Analyzed: 09/19/02 Time: 2255

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: SEPF Station ID: CEF-103-SMW-0 Method: 8310

GPC Cleanup : (Y/N) N pH:

Column(1): Vydac 201TP54 ID: 4.6 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
91-20-3	Naphthalene	0.25	
208-96-8	Acenaphthylene	0.21	U
90-12-0	1-Methylnaphthalene	0.21	U
91-57-6	2-Methylnaphthalene	0.44	
83-32-9	Acenaphthene	0.21	U
86-73-7	Fluorene	0.21	U
85-01-8	Phenanthrene	0.41	
120-12-7	Anthracene	0.21	U
206-44-0	Fluoranthene	0.34	
129-00-0	Pyrene	0.21	U
56-55-3	Benzo(a)anthracene	0.21	U
218-01-9	Chrysene	0.21	U
205-99-2	Benzo(b)fluoranthene	0.21	U
207-08-9	Benzo(k)fluoranthene	0.21	U
50-32-8	Benzo(a)pyrene	0.21	U
53-70-3	Dibenz(a,h)anthracene	0.21	U
191-24-2	Benzo(g,h,i)perylene	0.21	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.21	U

1

PAH ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

03Q30228

PEL Laboratories, Inc.

Contract: NAS Cecil Field 10

Case No.

SAS No:

SDG No.: 2209102

Lab Sample ID: 220910203

Lab File ID: 102-3.D

Units: ML

Date Received: 09/14/02

Extract Volume: 1

Date Extracted: 09/16/02

LOW

Date Analyzed: 09/19/02

Time: 2330

decanted :

Dilution Factor: 1

Station ID: CEF-103-SMW-0

Method: 8310

(Y/N) N

pH:

201TP54

ID: 4.6

(mm)

CONCN UNITS: UG/L

ANALYTE	RESULT	Q
Naphthalene	0.22	U
Acenaphthylene	0.22	U
1-Methylnaphthalene	0.22	U
2-Methylnaphthalene	0.39	
Acenaphthene	0.22	U
Fluorene	0.22	U
Phenanthrene	0.22	U
Anthracene	0.22	U
Fluoranthene	0.22	U
Pyrene	0.22	U
Benzo(a)anthracene	0.22	U
Chrysene	0.22	U
Benzo(b)fluoranthene	0.22	U
Benzo(k)fluoranthene	0.22	U
Benzo(a)pyrene	0.22	U
Dibenz(a,h)anthracene	0.22	U
Benzo(g,h,i)perylene	0.22	U
Indeno(1,2,3-cd)pyrene	0.22	U

Form I

1

PAH ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 04Q30228

Lab Name: PEL Laboratories, Inc.
Contract: NAS Cecil Field 10
Lab Code: PEL
Case No.
SAS No:
SDG No.: 2209102
Matrix: WATER
Lab Sample ID: 220910204
Lab File ID: 102-4.D
Sample wt/vol: 920
Units: ML
Date Received: 09/14/02
Concentrated Extract Volume: 1
Date Extracted: 09/16/02
Level:(low/med) LOW
Date Analyzed: 09/20/02
Time: 0004
PercentSolids: 0
decanted:
Dilution Factor: 1
Extraction: SEPF
Station ID: CEF-103-SMW-0
Method: 8310
GPC Cleanup: (Y/N) N
pH:
Column(1): Vydac 201TP54
ID: 4.6 (mm)
CONCENTRATION UNITS: UG/L

CAS NO.	ANALYTE	RESULT	Q
91-20-3	Naphthalene	0.22	U
208-96-8	Acenaphthylene	0.22	U
90-12-0	1-Methylnaphthalene	0.22	U
91-57-6	2-Methylnaphthalene	0.22	U
83-32-9	Acenaphthene	0.22	U
86-73-7	Fluorene	0.22	U
85-01-8	Phenanthrene	0.22	U
120-12-7	Anthracene	0.22	U
206-44-0	Fluoranthene	0.22	U
129-00-0	Pyrene	0.22	U
56-55-3	Benzo(a)anthracene	0.22	U
218-01-9	Chrysene	0.22	U
205-99-2	Benzo(b)fluoranthene	0.22	U
207-08-9	Benzo(k)fluoranthene	0.22	U
50-32-8	Benzo(a)pyrene	0.22	U
53-70-3	Dibenz(a,h)anthracene	0.22	U
191-24-2	Benzo(g,h,i)perylene	0.22	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.22	U

1

PAH ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

05Q30228

Lab Name: PEL Laboratories, Inc.

Contract: NAS Cecil Field 10

Lab Code : PEL Case No.

SAS No:

SDG No.: 2209102

Matrix: WATER

Lab Sample ID: 220910205

Lab File ID: 102-5.D

Sample wt/vol: 930 Units: ML

Date Received: 09/14/02

Concentrated Extract Volume: 1

Date Extracted: 09/16/02

Level:(low/med) LOW

Date Analyzed: 09/20/02 Time: 0039

PercentSolids: 0 decanted :

Dilution Factor: 1

Extraction: SEPF

Station ID: CEF-103-SMW-0 Method: 8310

GPC Cleanup : (Y/N) N pH:

Column(1): Vydac 201TP54 ID: 4.6 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
91-20-3	Naphthalene	0.22	U
208-96-8	Acenaphthylene	0.22	U
90-12-0	1-Methylnaphthalene	0.22	U
91-57-6	2-Methylnaphthalene	0.22	U
83-32-9	Acenaphthene	0.22	U
86-73-7	Fluorene	0.22	U
85-01-8	Phenanthrene	0.22	U
120-12-7	Anthracene	0.22	U
206-44-0	Fluoranthene	0.22	U
129-00-0	Pyrene	0.22	U
56-55-3	Benzo(a)anthracene	0.22	U
218-01-9	Chrysene	0.22	U
205-99-2	Benzo(b)fluoranthene	0.22	U
207-08-9	Benzo(k)fluoranthene	0.22	U
50-32-8	Benzo(a)pyrene	0.22	U
53-70-3	Dibenz(a,h)anthracene	0.22	U
191-24-2	Benzo(g,h,i)perylene	0.22	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.22	U

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PAH ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

06Q30228

Lab Name: PEL Laboratories, Inc.

Contract: NAS Cecil Field 10

Lab Code : PEL Case No.

SAS No:

SDG No.: 2209102

Matrix: WATER

Lab Sample ID: 220910206

Lab File ID: 102-6.D

Sample wt/vol: 900 Units: ML

Date Received: 09/14/02

Concentrated Extract Volume: 1

Date Extracted: 09/16/02

Level:(low/med) LOW

Date Analyzed: 09/20/02 Time: 0114

PercentSolids: 0 decanted :

Dilution Factor: 1

Extraction: SEPF

Station ID: CEF-103-SMW-0 Method: 8310

GPC Cleanup : (Y/N) N pH:

Column(1): Vydac 201TP54 ID: 4.6 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
91-20-3	Naphthalene	0.22	U
208-96-8	Acenaphthylene	0.22	U
90-12-0	1-Methylnaphthalene	0.22	U
91-57-6	2-Methylnaphthalene	0.22	U
83-32-9	Acenaphthene	0.22	U
86-73-7	Fluorene	0.22	U
85-01-8	Phenanthrene	0.43	
120-12-7	Anthracene	0.22	U
206-44-0	Fluoranthene	0.21	J
129-00-0	Pyrene	0.22	U
56-55-3	Benzo(a)anthracene	0.22	U
218-01-9	Chrysene	0.22	U
205-99-2	Benzo(b)fluoranthene	0.22	U
207-08-9	Benzo(k)fluoranthene	0.22	U
50-32-8	Benzo(a)pyrene	0.22	U
53-70-3	Dibenz(a,h)anthracene	0.22	U
191-24-2	Benzo(g,h,i)perylene	0.22	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.22	U

1

PAH ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

PEL Laboratories, Inc.	Contract: NAS Cecil Field 10	07Q30228	
L Case No.	SAS No:	SDG No.: 2209102	
ER	Lab Sample ID: 220910207	Lab File ID: 102-7.D	
960 Units: ML	Date Received: 09/14/02		
xtract Volume: 1	Date Extracted: 09/16/02		
LOW	Date Analyzed: 09/20/02	Time: 0223	
0 decanted :	Dilution Factor: 1		
CEF	Station ID: CEF-103-SMW-0	Method: 8310	
/N) N pH:			
a: 201TP54 ID: 4.6 (mm)			
IN UNITS: UG/L			

ANALYTE	RESULT	Q
Naphthalene	0.21	U
Acenaphthylene	0.21	U
1-Methylnaphthalene	0.21	U
2-Methylnaphthalene	0.21	U
Acenaphthene	0.21	U
Fluorene	0.21	U
Phenanthrene	0.21	U
Anthracene	0.21	U
Fluoranthene	0.21	U
Pyrene	0.21	U
Benzo(a)anthracene	0.21	U
Chrysene	0.21	U
Benzo(b)fluoranthene	0.21	U
Benzo(k)fluoranthene	0.21	U
Benzo(a)pyrene	0.21	U
Dibenz(a,h)anthracene	0.21	U
Benzo(g,h,i)perylene	0.21	U
Indeno(1,2,3-cd)pyrene	0.21	U

Form I

PAH ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 10Q30228

Lab Name: PEL Laboratories, Inc.
Contract: NAS Cecil Field 10
Lab Code: PEL
Case No.
SAS No:
SDG No.: 2209102
Matrix: WATER
Lab Sample ID: 220910208
Lab File ID: 102-8.D
Sample wt/vol: 950
Units: ML
Date Received: 09/14/02
Concentrated Extract Volume: 1
Date Extracted: 09/16/02
Level:(low/med) LOW
Date Analyzed: 09/20/02
Time: 0257
PercentSolids: 0
decanted:
Dilution Factor: 1
Extraction: SEPF
Station ID: CEF-103-SMW-1
Method: 8310
GPC Cleanup: (Y/N) N
pH:
Column(1): Vydac 201TP54
ID: 4.6
(mm)
CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
91-20-3	Naphthalene	0.21	U
208-96-8	Acenaphthylene	0.21	U
90-12-0	1-Methylnaphthalene	0.21	U
91-57-6	2-Methylnaphthalene	0.23	
83-32-9	Acenaphthene	0.21	U
86-73-7	Fluorene	0.21	U
85-01-8	Phenanthrene	0.21	U
120-12-7	Anthracene	0.21	U
206-44-0	Fluoranthene	0.21	U
129-00-0	Pyrene	0.21	U
56-55-3	Benzo(a)anthracene	0.21	U
218-01-9	Chrysene	0.21	U
205-99-2	Benzo(b)fluoranthene	0.21	U
207-08-9	Benzo(k)fluoranthene	0.21	U
50-32-8	Benzo(a)pyrene	0.21	U
53-70-3	Dibenz(a,h)anthracene	0.21	U
191-24-2	Benzo(g,h,i)perylene	0.21	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.21	U

1

PAH ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

11Q30228

PEL Laboratories, Inc.

Contract: NAS Cecil Field 10

Case No.

SAS No:

SDG No.: 2209102

Lab Sample ID: 220910209

Lab File ID: 102-9.D

Units: ML

Date Received: 09/14/02

Extract Volume: 1

Date Extracted: 09/16/02

LOW

Date Analyzed: 09/20/02

Time: 0332

0 decanted :

Dilution Factor: 1

Station ID: CEF-103-SMW-1

Method: 8310

Y/N) N pH:

Gac 201TP54 ID: 4.6 (mm)

CONCN UNITS: UG/L

ANALYTE	RESULT	Q
Naphthalene	0.21	U
Acenaphthylene	0.34	
1-Methylnaphthalene	0.21	U
2-Methylnaphthalene	0.21	U
Acenaphthene	0.21	U
Fluorene	0.21	U
Phenanthrene	0.21	U
Anthracene	0.21	U
Fluoranthene	0.21	U
Pyrene	0.21	U
Benzo(a)anthracene	0.21	U
Chrysene	0.21	U
Benzo(b)fluoranthene	0.21	U
Benzo(k)fluoranthene	0.21	U
Benzo(a)pyrene	0.21	U
Dibenz(a,h)anthracene	0.21	U
Benzo(g,h,i)perylene	0.21	U
Indeno(1,2,3-cd)pyrene	0.21	U

Form I

1

PAH ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

DUPQ30228

Lab Name: PEL Laboratories, Inc.

Contract: NAS Cecil Field 10

Lab Code : PEL Case No.

SAS No:

SDG No.: 2209102

Matrix: WATER

Lab Sample ID: 220910212

Lab File ID: 102-12.D

Sample wt/vol: 935 Units: ML

Date Received: 09/14/02

Concentrated Extract Volume: 1

Date Extracted: 09/16/02

Level:(low/med) LOW

Date Analyzed: 09/20/02 Time: 0407

PercentSolids: 0 decanted :

Dilution Factor: 1

Extraction: SEPF

Station ID: Duplicate Method: 8310

GPC Cleanup : (Y/N) N pH:

Column(1): Vydac 201TP54 ID: 4.6 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
91-20-3	Naphthalene	0.21	U
208-96-8	Acenaphthylene	0.21	U
90-12-0	1-Methylnaphthalene	0.21	U
91-57-6	2-Methylnaphthalene	0.21	U
83-32-9	Acenaphthene	0.21	U
86-73-7	Fluorene	0.21	U
85-01-8	Phenanthrene	0.21	U
120-12-7	Anthracene	0.21	U
206-44-0	Fluoranthene	0.21	U
129-00-0	Pyrene	0.21	U
56-55-3	Benzo(a)anthracene	0.21	U
218-01-9	Chrysene	0.21	U
205-99-2	Benzo(b)fluoranthene	0.21	U
207-08-9	Benzo(k)fluoranthene	0.21	U
50-32-8	Benzo(a)pyrene	0.21	U
53-70-3	Dibenz(a,h)anthracene	0.21	U
191-24-2	Benzo(g,h,i)perylene	0.21	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.21	U

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PAH ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EQBQ30228

Lab Name: PEL Laboratories, Inc.

Contract: NAS Cecil Field 10

Lab Code : PEL Case No.

SAS No: SDG No.: 2209102

Matrix: WATER

Lab Sample ID: 220910213 Lab File ID: 102-13.D

Sample wt/vol: 940 Units: ML

Date Received: 09/14/02

Concentrated Extract Volume: 1

Date Extracted: 09/16/02

Level:(low/med) LOW

Date Analyzed: 09/20/02 Time: 0441

PercentSolids: 0 decanted :

Dilution Factor: 1

Extraction: SEPF

Station ID: Equipment Blank Method: 8310

GPC Cleanup : (Y/N) N pH:

Column(1): Vydac 201TP54 ID: 4.6 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
91-20-3	Naphthalene	0.21	U
208-96-8	Acenaphthylene	0.21	U
90-12-0	1-Methylnaphthalene	0.21	U
91-57-6	2-Methylnaphthalene	0.21	U
83-32-9	Acenaphthene	0.21	U
86-73-7	Fluorene	0.21	U
85-01-8	Phenanthrene	0.21	U
120-12-7	Anthracene	0.21	U
206-44-0	Fluoranthene	0.21	U
129-00-0	Pyrene	0.21	U
56-55-3	Benzo(a)anthracene	0.21	U
218-01-9	Chrysene	0.21	U
205-99-2	Benzo(b)fluoranthene	0.21	U
207-08-9	Benzo(k)fluoranthene	0.21	U
50-32-8	Benzo(a)pyrene	0.21	U
53-70-3	Dibenz(a,h)anthracene	0.21	U
191-24-2	Benzo(g,h,i)perylene	0.21	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.21	U

QC Summary

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PAH ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

PEL Laboratories, Inc.	Contract: NAS Cecil Field 10		91602BLK01
CTL Case No.	SAS No:	SDG No.: 2209102	
MATRIX	Lab Sample ID: 80541	Lab File ID: 916BLK.D	
1000 Units: ML	Date Received: 09/16/02		
Extract Volume: 1	Date Extracted: 09/16/02		
LOW	Date Analyzed: 09/19/02	Time: 2002	
decanted :	Dilution Factor: 1		
GPC	Station ID:	Method: 8310	
(Y/N) N pH:			
Mac. 201TP54 ID: 4.6 (mm)			
CONC/ UNITS: UG/L			

ANALYTE	RESULT	Q
Naphthalene	0.2	U
Acenaphthylene	0.2	U
2-Methylnaphthalene	0.2	U
2-Methylnaphthalene	0.2	U
Acenaphthene	0.2	U
Fluorene	0.2	U
Phenanthrene	0.2	U
Anthracene	0.2	U
Fluoranthene	0.2	U
Pyrene	0.2	U
Benzo(a)anthracene	0.2	U
Chrysene	0.2	U
Benzo(b)fluoranthene	0.2	U
Benzo(k)fluoranthene	0.2	U
Benzo(a)pyrene	0.2	U
Dibenz(a,h)anthracene	0.2	U
Benzo(g,h,i)perylene	0.2	U
Indeno(1,2,3-cd)pyrene	0.2	U

Form I

4

PAH ORGANIC METHOD BLANK SUMMARY

EPA Sample No.: 91602BLK01

Lab Name: PEL Laboratories, Inc. Contract: NAS Cecil Field 10

Lab Code : PEL Case No. SAS No: SDG No.: 2209102

Lab File ID: 916BLK.D Lab Sample ID: 80541

Instrument ID: SLC02 Date Extracted: 09/16/02

Matrix: WATER Date Analyzed: 09/19/02

Level:(low/med) LOW Time Analyzed: 2002

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	91602LCS01	80542	916LCS.D	09/19/02	2037
2	11Q30228MS	220910210	102-10MS.D	09/19/02	2112
3	11Q30228SD	220910211	102-11SD.D	09/19/02	2146
4	01Q30228	220910201	102-1.D	09/19/02	2221
5	02Q30228	220910202	102-2.D	09/19/02	2255
6	03Q30228	220910203	102-3.D	09/19/02	2330
7	04Q30228	220910204	102-4.D	09/20/02	0004
8	05Q30228	220910205	102-5.D	09/20/02	0039
9	06Q30228	220910206	102-6.D	09/20/02	0114
10	07Q30228	220910207	102-7.D	09/20/02	0223
11	10Q30228	220910208	102-8.D	09/20/02	0257
12	11Q30228	220910209	102-9.D	09/20/02	0332
13	DUPQ30228	220910212	102-12.D	09/20/02	0407
14	EQBQ30228	220910213	102-13.D	09/20/02	0441

COMMENTS:

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Form IV

2A

WATER PAH ORGANIC SURROGATE RECOVERY

'EL Laboratories, Inc. Contract: NAS Cecil Field 103rd Street

Case No. SAS No: SDG NO.: 2209102

201TP54 ID: 4.6 (mm)

	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	TOT OUT
	82.9						0
	87.1						0
	80.5						0
	85.3						0
	84.7						0
	46.8						0
	84.6						0
	83.3						0
	77.8						0
	86.2						0
	85.8						0
	89.0						0
	92.0						0
	83.6						0
	62.4						0

Control Limits

erphenyl-d14 39 - 107

be used to flag recovery values

outside of contract required QC limits

gates diluted out

limit source: (lab/method) METHOD

Form II

PAH ORGANIC ANALYTICAL SEQUENCE

Lab Name: PEL Laboratories, Inc. Contract: NAS Cecil Field 10

Lab Code : PEL Case No. SAS No: SDG No.: 2209102

GC Column: Vydac 201TP5 ID: 4.6 (mm) Init. Calib. Date: 09/08/02

Instrument ID: SLC02

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 18.54 S2 :

	CLIENT SAMPLE NO	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #
1	STD44011	SV6105	09/08/02	1513	18.57	
2	STD44012	SV6104	09/08/02	1547	18.53	
3	STD44013	SV6103	09/08/02	1622	18.53	
4	STD44014	SV6102	09/08/02	1656	18.53	
5	STD44015	SV6101	09/08/02	1731	18.53	
6	STD44016	SV6100	09/08/02	1806	18.53	
7	STD44017	SV6099	09/08/02	1840	18.53	
8	SSC44021	SV6163	09/08/02	1915	18.55	
9	ZZZZZZ	ZZZZZZ	09/19/02	1819		
10	ZZZZZZ	ZZZZZZ	09/19/02	1853		
11	CCV47458	SV6163	09/19/02	1928	18.57	
12	91602BLK01	80541	09/19/02	2002	18.58	
13	91602LCS01	80542	09/19/02	2037	18.58	
14	11Q30228MS	220910210	09/19/02	2112	18.59	
15	11Q30228SD	220910211	09/19/02	2146	18.59	
16	01Q30228	220910201	09/19/02	2221	18.59	
17	02Q30228	220910202	09/19/02	2255	18.58	
18	03Q30228	220910203	09/19/02	2330	18.59	
19	04Q30228	220910204	09/20/02	0004	18.59	
20	05Q30228	220910205	09/20/02	0039	18.59	
21	06Q30228	220910206	09/20/02	0114	18.6	
22	CCV47459	SV6163	09/20/02	0148	18.59	
23	07Q30228	220910207	09/20/02	0223	18.59	
24	10Q30228	220910208	09/20/02	0257	18.58	
25	11Q30228	220910209	09/20/02	0332	18.58	
26	DUPQ30228	220910212	09/20/02	0407	18.58	

QC LIMITS
(+/- 0.17 MINUTES)

S1 = p-Terphenyl-d14

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

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FORM VIII

PAH ORGANIC ANALYTICAL SEQUENCE

Lab Name: PEL Laboratories, Inc. Contract: NAS Cecil Field 10

Lab Code : PEL Case No. SAS No: SDG No.: 2209102

GC Column: Vydac 201TP5 ID: 4.6 (mm) Init. Calib. Date: 09/08/02

Instrument ID: SLC02

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 18.54 S2 :

	CLIENT SAMPLE NO	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT	#	S2 RT	#
27	EQBQ30228	220910213	09/20/02	0441	18.58			
28	CCV47460	SV6163	09/20/02	0516	18.58			

S1 = p-Terphenyl-d14

QC LIMITS
(+/- 0.17 MINUTES)

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

270502 1430

FORM VIII

3

PAH ORGANIC LAB CONTROL SAMPLE RECOVERY

EPA Sample No.

91602LCS01

Lab Name: PEL Laboratories, Inc. Contract: NAS Cecil Field 103rd Street

Lab Code : PEL Case No. SAS No: SDG No.: 2209102

COMPOUND	SPIKE ADDED UG/L	LCS CONCENTRATION UG/L	LCS % REC #	QC LIMITS REC.
Naphthalene	10	6.4	64.0	45 - 78
Acenaphthylene	10	7.2	72.0	50 - 91
1-Methylnaphthalene	10	5.7	57.0	48 - 92
2-Methylnaphthalene	10	6.8	68.0	52 - 88
Acenaphthene	10	6.4	64.0	52 - 86
Fluorene	10	7.7	77.0	51 - 92
Phenanthrene	10	8.7	87.0	52 - 98
Anthracene	10	8.7	87.0	44 - 105
Fluoranthene	10	9	90.0	58 - 99
Pyrene	10	8.6	86.0	56 - 102
Benzo(a)anthracene	10	8.8	88.0	59 - 103
Chrysene	10	9.4	94.0	58 - 104
Benzo(b)fluoranthene	10	8.4	84.0	53 - 108
Benzo(k)fluoranthene	10	8.3	83.0	52 - 107
Benzo(a)pyrene	10	7.6	76.0	56 - 101
Dibenz(a,h)anthracene	10	6.9	69.0	41 - 114
Benzo(g,h,i)perylene	10	6.6	66.0	41 - 109
Indeno(1,2,3-cd)pyrene	10	6.3	63.0	42 - 105

Spike Recovery: 0 out of 18 outside limits

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS:

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Form III

3

PAH ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Sample No.

11Q30228MS

Lab Name: PEL Laboratories, Inc. Contract: NAS Cecil Field 103rd

Lab Code : PEL Case No. SAS No: SDG No.: 2209102

COMPOUND	SPIKE ADDED UG/L	SAMPLE CONCENTRATION UG/L	MS CONCENTRATION UG/L	MS % REC #	QC LIMITS REC.
Naphthalene	10.9	0	4.6	42.2 *	45 - 78
Acenaphthylene	10.9	0.34	5.2	44.6 *	50 - 91
1-Methylnaphthalene	10.9	0	3.5	32.1 *	48 - 92
2-Methylnaphthalene	10.9	0	4.7	43.1 *	52 - 88
Acenaphthene	10.9	0	4.1	37.6 *	52 - 86
Fluorene	10.9	0	5.6	51.4	51 - 92
Phenanthrene	10.9	0	7.8	71.6	52 - 98
Anthracene	10.9	0	7.9	72.5	44 - 105
Fluoranthene	10.9	0	9.2	84.4	58 - 99
Pyrene	10.9	0	9	82.6	56 - 102
Benzo(a)anthracene	10.9	0	9.1	83.5	59 - 103
Chrysene	10.9	0	9.8	89.9	58 - 104
Benzo(b)fluoranthene	10.9	0	8.8	80.7	53 - 108
Benzo(k)fluoranthene	10.9	0	8.8	80.7	52 - 107
Benzo(a)pyrene	10.9	0	8	73.4	56 - 101
Dibenz(a,h)anthracene	10.9	0	8	73.4	41 - 114
Benzo(g,h,i)perylene	10.9	0	7.6	69.7	41 - 109
Indeno(1,2,3-cd)pyrene	10.9	0	8.3	76.1	42 - 105

Spike Recovery: 5 out of 18 outside limits

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS:

Form III

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3

PAH ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Sample No.

Lab Name: PEL Laboratories, Inc. Contract: NAS Cecil Field 10 11Q30228SD

Lab Code : PEL Case No. SAS No: SDG No.: 2209102

COMPOUND	SPIKE ADDED UG/L	MSD CONCENTRATION UG/L	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Naphthalene	10.6	5.1	48.1	10.3	27	45 - 78
Acenaphthylene	10.6	5.6	49.6 *	7.4	34	50 - 91
1-Methylnaphthalene	10.6	4	37.7 *	13.3	29	48 - 92
2-Methylnaphthalene	10.6	5.3	50.0 *	12.0	34	52 - 88
Acenaphthene	10.6	4.6	43.4 *	11.5	37	52 - 86
Fluorene	10.6	6.1	57.5	8.5	28	51 - 92
Phenanthrene	10.6	8	75.5	2.5	32	52 - 98
Anthracene	10.6	8	75.5	1.3	34	44 - 105
Fluoranthene	10.6	8.9	84.0	3.3	28	58 - 99
Pyrene	10.6	8.5	80.2	5.7	30	56 - 102
Benzo(a)anthracene	10.6	8.6	81.1	5.6	28	59 - 103
Chrysene	10.6	9.3	87.7	5.2	21	58 - 104
Benzo(b)fluoranthene	10.6	8.4	79.2	4.7	21	53 - 108
Benzo(k)fluoranthene	10.6	8.4	79.2	4.7	20	52 - 107
Benzo(a)pyrene	10.6	7.5	70.8	6.5	22	56 - 101
Dibenz(a,h)anthracene	10.6	7.6	71.7	5.1	21	41 - 114
Benzo(g,h,i)perylene	10.6	7.1	67.0	6.8	21	41 - 109
Indeno(1,2,3-cd)pyrene	10.6	7	66.0	17.0	28	42 - 105

RPD: 0 out of 18 outside limits

Spike Recovery: 4 out of 18 outside limits

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS:

Form III

270902 1430

Standards Data

6

PAH ORGANIC INITIAL CALIBRATION DATA

Lab Name: PEL Laboratories, Inc. Contract: NAS Cecil Field 10

Lab Code : PEL Case No. SAS No: SDG No.: 2209102

Instrument ID: SLC02 Calibration Date: 09/08/02

GC Column: Vydac 201TP5 ID: 4.6 (mm) Calibration Time: 1840

LAB FILE ID: RRF0.2 =CAL1.D RRF1 =CAL2.D
RRF5 =CAL3.D RRF10 =CAL4.D RRF15 =CAL5.D

COMPOUND	RRF0.2	RRF1	RRF5	RRF10	RRF15
Naphthalene	5200	5704	5723	5466.7	5365.133
Acenaphthylene	4765	3816	4268.4	4149.7	3991.2
1-Methylnaphthalene	21395	15599	13523.6	13979.8	14426.267
2-Methylnaphthalene	5230	5111	4789.2	4594.9	4479.933
Acenaphthene	29585	17004	17694	19170.5	19709.467
Fluorene	27310	25871	26310.2	24827	24440.667
Phenanthrene	334070	368171	407221.6	388968.6	383846.4
Anthracene	187835	173279	168428.6	162702.9	156657.133
Fluoranthene	16800	18430	17681.4	16502.4	16206.4
Pyrene	13595	15865	15395.6	14505.1	14290.133
Benzo(a)anthracene	33100	34522	40610.2	38436.9	37836.667
Chrysene	51565	50606	55348.6	53047.4	52876.733
Benzo(b)fluoranthene	31830	35966	43207.2	42138	41877.667
Benzo(k)fluoranthene	34345	30406	33588	32321.3	32215.867
Benzo(a)pyrene	101785	116868	169090.2	165374.3	165762.2
Dibenz(a,h)anthracene	13140	5311	8494.2	8499.8	8405.733
Benzo(g,h,i)perylene	9385	7463	12271	12568.4	12860
Indeno(1,2,3-cd)pyrene	13975	24460	33025.4	33334.4	34433.4
==========					
p-Terphenyl-d14(SURR)	14305	14881	13398.2	13396.8	14773.867

PAH ORGANIC INITIAL CALIBRATION DATA

Lab Name: PEL Laboratories, Inc. Contract: NAS Cecil Field 10

Lab Code : PEL Case No. SAS No: SDG No.: 2209102

Instrument ID: SLC02 Calibration Date: 09/08/02

GC Column: Vydac 201TP5 ID: 4.6 (mm) Calibration Time: 1840

LAB FILE ID: RRF20 =CAL6.D RRF30 =CAL7.D

COMPOUND	RRF20	RRF30			
Naphthalene	5498.6	5284.667			
Acenaphthylene	4072.05	3968.567			
1-Methylnaphthalene	15460.4	15400.167			
2-Methylnaphthalene	4460.5	4446.967			
Acenaphthene	21195.55	20960.567			
Fluorene	25247	24221.733			
Phenanthrene	395805.9	380101			
Anthracene	157254.35	144773.467			
Fluoranthene	16762.1	16168.4			
Pyrene	14999.3	14220.367			
Benzo(a)anthracene	39015.7	37710.867			
Chrysene	51406.05	51786.533			
Benzo(b)fluoranthene	43358.3	42020.9			
Benzo(k)fluoranthene	33448.45	32293.8			
Benzo(a)pyrene	171816.6	166927.5			
Dibenz(a,h)anthracene	8688.95	8408.267			
Benzo(g,h,i)perylene	13683.25	13553.233			
Indeno(1,2,3-cd)pyrene	36531.45	36532.4			
p-Terphenyl-d14(SURR)	14001.85	14643.467			

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FORM VI

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PAH ORGANIC INITIAL CALIBRATION DATA

Lab Name: PEL Laboratories, Inc. Contract: NAS Cecil Field 10

Lab Code : PEL Case No. SAS No: SDG No.: 2209102

Instrument ID: SLC02 Calibration Date: 09/08/02

GC Column: Vydac 201TP5 ID: 4.6 (mm) Calibration Time: 1840

COMPOUND	CURVE	COEFFICIENTS AO	COEFFICIENTS A1	%RSD OR R^2
Naphthalene	LINR		0.0001863124	0.99915
Acenaphthylene	LINR		0.0002491782	0.9994
1-Methylnaphthalene	LINR		6.585657E-05	0.99745
2-Methylnaphthalene	LINR		0.0002237142	0.99964
Acenaphthene	LINR		4.828118E-05	0.99718
Fluorene	LINR		4.068563E-05	0.99911
Phenanthrene	LINR		2.594130E-06	0.99921
Anthracene	LINR		6.613822E-06	0.99508
Fluoranthene	LINR		6.109630E-05	0.99919
Pyrene	LINR		6.914229E-05	0.99866
Benzo(a)anthracene	LINR		2.621879E-05	0.99935
Chrysene	LINR		1.923772E-05	0.99961
Benzo(b)fluoranthene	LINR		2.360972E-05	0.99951
Benzo(k)fluoranthene	LINR		3.068303E-05	0.99941
Benzo(a)pyrene	LINR		5.955879E-06	0.99943
Dibenz(a,h)anthracene	LINR		0.0001178765	0.99933
Benzo(g,h,i)perylene	LINR		7.452145E-05	0.998
Indeno(1,2,3-cd)pyrene	LINR		2.775835E-05	0.99782
p-Terphenyl-d14(SURR)	LINR		6.933333E-05	0.99814

PAH ORGANIC INITIAL CALIBRATION DATA

Lab Name: PEL Laboratories, Inc. Contract: NAS Cecil Field 10

Lab Code : PEL Case No. SAS No: SDG No.: 2209102

Instrument ID: SLC02 Calibration Date: 09/08/02

GC Column: Vydac 201TP5 ID: 4.6 (mm) Calibration Time: 1840

LAB FILE ID: RT1: CAL1.D RT2: CAL2.D
RT3: CAL3.D RT4: CAL4.D RT5: CAL5.D

COMPOUND	RT1	RT2	RT3	RT4	RT5	MEAN RT	RT WINDOW FROM	TO
Naphthalene	11.867	11.763	11.763	11.800	11.793			
Acenaphthylene	13.080	13.003	12.993	13.023	13.013			
1-Methylnaphthalene	13.787	13.720	13.722	13.740	13.732			
2-Methylnaphthalene	14.033	13.967	13.967	13.987	13.977			
Acenaphthene	14.460	14.396	14.392	14.413	14.404			
Fluorene	14.720	14.660	14.660	14.677	14.667			
Phenanthrene	15.617	15.565	15.559	15.571	15.564			
Anthracene	16.243	16.197	16.190	16.200	16.197			
Fluoranthene	17.080	17.030	17.023	17.027	17.023			
Pyrene	17.620	17.573	17.563	17.570	17.567			
Benzo(a)anthracene	19.373	19.337	19.327	19.333	19.330			
Chrysene	19.763	19.723	19.713	19.720	19.717			
Benzo(b)fluoranthene	21.163	21.120	21.110	21.113	21.113			
Benzo(k)fluoranthene	21.760	21.737	21.727	21.723	21.730			
Benzo(a)pyrene	22.500	22.445	22.430	22.420	22.431			
Dibenz(a,h)anthracene	23.427	23.350	23.327	23.320	23.320			
Benzo(g,h,i)perylene	24.180	24.100	24.073	24.073	24.073			
Indeno(1,2,3-cd)pyrene	24.643	24.553	24.523	24.520	24.523			
p-Terphenyl-d14(SURR)	18.570	18.533	18.527	18.530	18.527			

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PAH ORGANIC INITIAL CALIBRATION DATA

Lab Name: PEL Laboratories, Inc. Contract: NAS Cecil Field 10

Lab Code : PEL Case No. SAS No: SDG No.: 2209102

Instrument ID: SLC02 Calibration Date: 09/08/02

GC Column: Vydac 201TP5 ID: 4.6 (mm) Calibration Time: 1840

LAB FILE ID: RT6: CAL6.D RT7: CAL7.D

COMPOUND	RT6	RT7				MEAN RT	RT WINDOW FROM	TO
Naphthalene	11.740	11.790				11.791	11.460	12.174
Acenaphthylene	12.977	13.013				13.017	12.721	13.345
1-Methylnaphthalene	13.703	13.735				13.737	13.372	13.954
2-Methylnaphthalene	13.953	13.983				13.984	13.721	14.273
Acenaphthene	14.379	14.408				14.410	14.048	14.612
Fluorene	14.647	14.673				14.674	14.416	14.950
Phenanthrene	15.549	15.572				15.574	15.244	15.736
Anthracene	16.187	16.207				16.205	15.982	16.444
Fluoranthene	17.017	17.033				17.036	16.821	17.265
Pyrene	17.560	17.573				17.577	17.376	17.790
Benzo(a)anthracene	19.333	19.337				19.341	19.161	19.533
Chrysene	19.720	19.723				19.728	19.545	19.929
Benzo(b)fluoranthene	21.117	21.117				21.124	20.914	21.346
Benzo(k)fluoranthene	21.737	21.733				21.738	21.528	21.972
Benzo(a)pyrene	22.441	22.435				22.447	22.128	22.572
Dibenz(a,h)anthracene	23.337	23.320				23.351	23.134	23.620
Benzo(g,h,i)perylene	24.087	24.067				24.099	23.900	24.326
Indeno(1,2,3-cd)pyrene	24.537	24.517				24.551	24.360	24.774
p-Terphenyl-d14(SURR)	18.530	18.533				18.539	18.373	18.721

PAH ORGANIC CONTINUING CALIBRATION DATA

Lab Name: PEL Laboratories, Inc. Contract: NAS Cecil Field 10

Lab Code : PEL Case No. SAS No: SDG No.: 2209102

Instrument ID: SLC02 CalibrationDate: 09/19/02 Time: 1928

Lab File ID: CCV13.D Init. Calib. Date: 09/08/02

GC Column: Vydac 201TP5 ID: 4.6 (mm)

COMPOUND	SAMPLE AMOUNT	15 AMOUNT	CURVE	%D	MAX %D
Naphthalene	15.6	15	LINR	4.0	15.0
Acenaphthylene	14.9	15	LINR	0.7	15.0
1-Methylnaphthalene	15.8	15	LINR	5.3	15.0
2-Methylnaphthalene	14.8	15	LINR	1.3	15.0
Acenaphthene	14.4	15	LINR	4.0	15.0
Fluorene	15	15	LINR	0.0	15.0
Phenanthrene	14.9	15	LINR	0.7	15.0
Anthracene	15.2	15	LINR	1.3	15.0
Fluoranthene	14.9	15	LINR	0.7	15.0
Pyrene	15	15	LINR	0.0	15.0
Benzo(a)anthracene	14.9	15	LINR	0.7	15.0
Chrysene	15.6	15	LINR	4.0	15.0
Benzo(b)fluoranthene	14.7	15	LINR	2.0	15.0
Benzo(k)fluoranthene	14.7	15	LINR	2.0	15.0
Benzo(a)pyrene	14.3	15	LINR	4.7	15.0
Dibenz(a,h)anthracene	14.1	15	LINR	6.0	15.0
Benzo(g,h,i)perylene	13.8	15	LINR	8.0	15.0
Indeno(1,2,3-cd)pyrene	15	15	LINR	0.0	15.0
p-Terphenyl-d14	15.8	15	LINR	5.3	15.0

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PAH ORGANIC CONTINUING CALIBRATION DATA

Lab Name: PEL Laboratories, Inc. Contract: NAS Cecil Field 10

Lab Code : PEL Case No. SAS No: SDG No.: 2209102

Instrument ID: SLC02 CalibrationDate: 09/20/02 Time: 0148

Lab File ID: CCV2.D Init. Calib. Date: 09/08/02

GC Column: Vydac 201TP5 ID: 4.6 (mm)

COMPOUND	SAMPLE AMOUNT	15 AMOUNT	CURVE	%D	MAX %D
Naphthalene	15.4	15	LINR	2.7	15.0
Acenaphthylene	14.3	15	LINR	4.7	15.0
1-Methylnaphthalene	15.3	15	LINR	2.0	15.0
2-Methylnaphthalene	14.7	15	LINR	2.0	15.0
Acenaphthene	14.1	15	LINR	6.0	15.0
Fluorene	14.9	15	LINR	0.7	15.0
Phenanthrene	14.5	15	LINR	3.3	15.0
Anthracene	15	15	LINR	0.0	15.0
Fluoranthene	14.8	15	LINR	1.3	15.0
Pyrene	14.8	15	LINR	1.3	15.0
Benzo(a)anthracene	14.7	15	LINR	2.0	15.0
Chrysene	15.5	15	LINR	3.3	15.0
Benzo(b)fluoranthene	14.6	15	LINR	2.7	15.0
Benzo(k)fluoranthene	14.6	15	LINR	2.7	15.0
Benzo(a)pyrene	13.8	15	LINR	8.0	15.0
Dibenz(a,h)anthracene	13.5	15	LINR	10.0	15.0
Benzo(g,h,i)perylene	13.6	15	LINR	9.3	15.0
Indeno(1,2,3-cd)pyrene	13.1	15	LINR	12.7	15.0
==========					
p-Terphenyl-d14	15.4	15	LINR	2.7	15.0

7

PAH ORGANIC CONTINUING CALIBRATION DATA

Lab Name: PEL Laboratories, Inc. Contract: NAS Cecil Field 10

Lab Code : PEL Case No. SAS No: SDG No.: 2209102

Instrument ID: SLC02 CalibrationDate: 09/20/02 Time: 0516

Lab File ID: CCV3.D Init. Calib. Date: 09/08/02

GC Column: Vydac 201TP5 ID: 4.6 (mm)

COMPOUND	SAMPLE AMOUNT	15 AMOUNT	CURVE	%D	MAX %D
Naphthalene	15.2	15	LINR	1.3	15.0
Acenaphthylene	14.3	15	LINR	4.7	15.0
1-Methylnaphthalene	15.4	15	LINR	2.7	15.0
2-Methylnaphthalene	14.7	15	LINR	2.0	15.0
Acenaphthene	14	15	LINR	6.7	15.0
Fluorene	14.9	15	LINR	0.7	15.0
Phenanthrene	14.5	15	LINR	3.3	15.0
Anthracene	15	15	LINR	0.0	15.0
Fluoranthene	14.8	15	LINR	1.3	15.0
Pyrene	14.7	15	LINR	2.0	15.0
Benzo(a)anthracene	14.7	15	LINR	2.0	15.0
Chrysene	15.6	15	LINR	4.0	15.0
Benzo(b)fluoranthene	14.6	15	LINR	2.7	15.0
Benzo(k)fluoranthene	14.6	15	LINR	2.7	15.0
Benzo(a)pyrene	13.5	15	LINR	10.0	15.0
Dibenz(a,h)anthracene	13.5	15	LINR	10.0	15.0
Benzo(g,h,i)perylene	13.4	15	LINR	10.7	15.0
Indeno(1,2,3-cd)pyrene	14.9	15	LINR	0.7	15.0
==========					
p-Terphenyl-d14	14.9	15	LINR	0.7	15.0

7SSC

PAH ORGANIC SECONDARY SOURCE CALIBRATION DATA

Lab Name: PEL Laboratories, Inc. Contract: NAS Cecil Field 10

Lab Code : PEL Case No. SAS No: SDG No.: 2209102

Instrument ID: SLC02 CalibrationDate: 09/08/02 Time: 1915

Lab File ID: SECCCV.D Init. Calib. Date: 09/08/02

GC Column: Vydac 201TP5 ID: 4.6 (mm)

COMPOUND	SAMPLE AMOUNT	0 AMOUNT	CURVE	%D	MAX %D
Naphthalene	14.9	15	LINR	0.7	15.0
Acenaphthylene	14.2	15	LINR	5.3	15.0
1-Methylnaphthalene	15	15	LINR	0.0	15.0
2-Methylnaphthalene	14.5	15	LINR	3.3	15.0
Acenaphthene	13.8	15	LINR	8.0	15.0
Fluorene	14.5	15	LINR	3.3	15.0
Phenanthrene	14.5	15	LINR	3.3	15.0
Anthracene	14.7	15	LINR	2.0	15.0
Fluoranthene	14.4	15	LINR	4.0	15.0
Pyrene	14.5	15	LINR	3.3	15.0
Benzo(a)anthracene	14.4	15	LINR	4.0	15.0
Chrysene	14.8	15	LINR	1.3	15.0
Benzo(b)fluoranthene	14.4	15	LINR	4.0	15.0
Benzo(k)fluoranthene	14.4	15	LINR	4.0	15.0
Benzo(a)pyrene	13.7	15	LINR	8.7	15.0
Dibenz(a,h)anthracene	14.3	15	LINR	4.7	15.0
Benzo(g,h,i)perylene	13.8	15	LINR	8.0	15.0
Indeno(1,2,3-cd)pyrene	13.6	15	LINR	9.3	15.0
==========					
p-Terphenyl-d14	15.6	15	LINR	4.0	15.0

GC FL-PRO ORGANICS

METHOD FL-PRO

CASE NARRATIVE
FLORIDA PETROLEUM RANGE ORGANICS (FL PRO) SEMIVOLATILE ORGANICS

PEL Lab Reference No./SDG: 2209102

Client: CH2M Hill

I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody or a communication form is included in the addendum with this package.

II. HOLDING TIMES

A. Sample Preparation: All holding times were met.

B. Sample Analysis: All holding times were met.

III. METHODS

Florida DEP/FL PRO

IV. PREPARATION

Water samples were prepared by FL PRO for semi-volatile analysis.

V. ANALYSIS

A. Calibration:

All acceptance criteria were met.

B. Blanks:

All acceptance criteria were met.

C. Surrogates:

All acceptance criteria were met with the exception of:

Sample 02Q30228 was recovered above criteria for the following surrogate: o-Terphenyl.

Sample(s) 03Q30228, 06Q30228, 07Q30228, 11Q30228, 11Q30228MS, and 11Q30228SD were recovered below criteria for the following surrogate: o-Terphenyl.

Sample 11Q30228MS was recovered below criteria for the following surrogate: C39.

Since the LCS met all acceptance criteria no further action was taken. The most probable cause for the surrogate variances is matrix effect.

CASE NARRATIVE
RIDA PETROLEUM RANGE ORGANICS (FL PRO) SEMIVOLATILE ORGANICS

Reference No./SDG: 2209102

2M Hill

D. Spikes:

1. Laboratory Control Spikes (LCS)

All acceptance criteria were met.

2. Matrix Spike/Matrix Spike Duplicate Samples (MS/SD)

A client requested MS/SD set was analyzed.
All percent recovery and relative percent difference (RPD) criteria were met with the exception of:
MS - 11Q30228MS was analyzed with the water samples extracted on 09/17/02. The following analyte were recovered below criteria: TPH at 21.1 % with criteria of (41-101).

SD - 11Q30228SD was analyzed with the water samples extracted on 09/17/02. The following analyte were recovered below criteria: TPH at 37.1 % with criteria of (41-101).

The most probable cause for the TPH variances is matrix effect.

E. Internal Standards:

This method does not require the use of internal standards.

F. Samples:

Sample analysis proceeded normally.
Analysis indicates samples DUPQ30228 and 07Q30228 are probably duplicates.

this data package is in compliance with the terms and conditions agreed to by the client and chnically and for completeness, except for the conditions noted above. Release of the data this hardcopy data package has been authorized by the Laboratory Manager or designated verified by the following signature.

DATE: 9-27-02

FL-PRO ORGANIC CROSS REFERENCE TABLE

Lab Name: PEL Laboratories, Inc. Contract: NAS Cecil Field 103rd Street

Lab Code : PEL Case No. SAS No: SDG No.: 2209102

Method: FL-PRO

EPA Sample No	Lab Sample ID
01Q30228	220910201
02Q30228	220910202
03Q30228	220910203
04Q30228	220910204
05Q30228	220910205
06Q30228	220910206
07Q30228	220910207
10Q30228	220910208
11Q30228	220910209
DUPQ30228	220910212
EQBQ30228	220910213

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Sample Data

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1

FL-PRO ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

01Q30228

Lab Name: PEL Laboratories, Inc.

Contract: NAS Cecil Field 10

Lab Code : PEL Case No.

SAS No: SDG No.: 2209102

Matrix: WATER

Lab Sample ID: 220910201 Lab File ID: 102-1.D

Sample wt/vol: 950 Units: ML

Date Received: 09/14/02

Concentrated Extract Volume: 2

Date Extracted: 09/17/02

Level:(low/med) LOW

Date Analyzed: 09/18/02 Time: 0033

PercentSolids: 0 decanted :

Dilution Factor: 1

Extraction: SEPF

Station ID: CEF-103-SMW-0 Method: FL-PRO

GPC Cleanup : (Y/N) N pH:

Column(1): RTX-5 ID: 0.53 (mm)

CONCENTRATION UNITS: MG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
5289290-40-0	TPH	0.22	

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Form I

1

FL-PRO ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

02Q30228

LL Laboratories, Inc.

Contract: NAS Cecil Field 10

EL Case No.

SAS No:

SDG No.: 2209102

ER

Lab Sample ID: 220910202

Lab File ID: 102-2.D

60 Units: ML

Date Received: 09/14/02

ct Volume: 2

Date Extracted: 09/17/02

LOW

Date Analyzed: 09/18/02

Time: 0101

0 decanted :

Dilution Factor: 1

LPF

Station ID: CEF-103-SMW-0

Method: FL-PRO

N) N pH:

5 ID: 0.53 (mm)

UNITS: MG/L

ANALYTE	RESULT	Q
TPH	1.6	

2709

Form I

FL-PRO ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

03Q30228

Lab Name: PEL Laboratories, Inc.

Contract: NAS Cecil Field 10

Lab Code : PEL Case No.

SAS No:

SDG No.: 2209102

Matrix: WATER

Lab Sample ID: 220910203

Lab File ID: 102-3.D

Sample wt/vol: 910 Units: ML

Date Received: 09/14/02

Concentrated Extract Volume: 2

Date Extracted: 09/17/02

Level:(low/med) LOW

Date Analyzed: 09/18/02 Time: 0130

PercentSolids: 0 decanted :

Dilution Factor: 1

Extraction: SEPF

Station ID: CEF-103-SMW-0 Method: FL-PRO

GPC Cleanup : (Y/N) N pH:

Column(1): RTX-5 ID: 0.53 (mm)

CONCENTRATION UNITS: MG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
5289290-40-0	TPH	0.24	

1

FL-PRO ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

04Q30228

PEL Laboratories, Inc.

Contract: NAS Cecil Field 10

Case No.

SAS No:

SDG No.: 2209102

Lab Sample ID: 220910204

Lab File ID: 102-4.D

Units: ML

Date Received: 09/14/02

Volume: 2

Date Extracted: 09/17/02

LOW

Date Analyzed: 09/18/02

Time: 0159

decanted :

Dilution Factor: 1

Station ID: CEF-103-SMW-0

Method: FL-PRO

N

pH:

ID: 0.53

(mm)

UNITS: MG/L

ANALYTE	RESULT	Q
TPH	0.64	

Form I

1

FL-PRO ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

05Q30228

Lab Name: PEL Laboratories, Inc.

Contract: NAS Cecil Field 10

Lab Code : PEL Case No.

SAS No: SDG No.: 2209102

Matrix: WATER

Lab Sample ID: 220910205 Lab File ID: 102-5.D

Sample wt/vol: 950 Units: ML

Date Received: 09/14/02

Concentrated Extract Volume: 2

Date Extracted: 09/17/02

Level:(low/med) LOW

Date Analyzed: 09/18/02 Time: 0227

PercentSolids: 0 decanted :

Dilution Factor: 1

Extraction: SEPF

Station ID: CEF-103-SMW-0 Method: FL-PRO

GPC Cleanup : (Y/N) N pH:

Column(1): RTX-5 ID: 0.53 (mm)

CONCENTRATION UNITS: MG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
5289290-40-0	TPH	0.37	

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Form I

1

FL-PRO ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

06Q30228

Lab Name: PEL Laboratories, Inc.

Contract: NAS Cecil Field 10

Lab Code : PEL Case No.

SAS No: SDG No.: 2209102

Matrix: WATER

Lab Sample ID: 220910206 Lab File ID: 102-6.D

Sample wt/vol: 940 Units: ML

Date Received: 09/14/02

Concentrated Extract Volume: 2

Date Extracted: 09/17/02

Level:(low/med) LOW

Date Analyzed: 09/18/02 Time: 0257

PercentSolids: 0 decanted :

Dilution Factor: 1

Extraction: SEPF

Station ID: CEF-103-SMW-0 Method: FL-PRO

GPC Cleanup : (Y/N) N pH:

Column(1): RTX-5 ID: 0.53 (mm)

CONCENTRATION UNITS: MG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
5289290-40-0	TPH	0.21	U

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Form I

1

FL-PRO ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

07Q30228

Lab Name: PEL Laboratories, Inc.

Contract: NAS Cecil Field 10

Lab Code : PEL Case No.

SAS No:

SDG No.: 2209102

Matrix: WATER

Lab Sample ID: 220910207

Lab File ID: 102-7R.D

Sample wt/vol: 1000 Units: ML

Date Received: 09/14/02

Concentrated Extract Volume: 2

Date Extracted: 09/17/02

Level:(low/med) LOW

Date Analyzed: 09/20/02 Time: 1833

PercentSolids: 0 decanted :

Dilution Factor: 1

Extraction: SEPF

Station ID: CEF-103-SMW-0 Method: FL-PRO

GPC Cleanup : (Y/N) N pH:

Column(1): RTX-5 ID: 0.53 (mm)

CONCENTRATION UNITS: MG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
5289290-40-0	TPH	0.2	U

270902 1430

Form I

1

FL-PRO ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

10Q30228

PEL Laboratories, Inc.

Contract: NAS Cecil Field 10

Case No.

SAS No:

SDG No.: 2209102

FER

Lab Sample ID: 220910208

Lab File ID: 102-8R.D

030 Units: ML

Date Received: 09/14/02

xtract Volume: 2

Date Extracted: 09/17/02

LOW

Date Analyzed: 09/18/02

Time: 1118

0 decanted :

Dilution Factor: 1

SI PF

Station ID: CEF-103-SMW-1

Method: FL-PRO

Y/N) N pH:

X-5 ID: 0.53 (mm)

ION UNITS: MG/L

ANALYTE	RESULT	Q
TPH	0.22	U

Form I

1

FL-PRO ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

11Q30228

Lab Name: PEL Laboratories, Inc.

Contract: NAS Cecil Field 10

Lab Code : PEL Case No.

SAS No: SDG No.: 2209102

Matrix: WATER

Lab Sample ID: 220910209 Lab File ID: 102-9.D

Sample wt/vol: 950 Units: ML

Date Received: 09/14/02

Concentrated Extract Volume: 2

Date Extracted: 09/17/02

Level:(low/med) LOW

Date Analyzed: 09/18/02 Time: 0852

PercentSolids: 0 decanted :

Dilution Factor: 1

Extraction: SEPF

Station ID: CEF-103-SMW-1 Method: FL-PRO

GPC Cleanup : (Y/N) N pH:

Column(1): RTX-5 ID: 0.53 (mm)

CONCENTRATION UNITS: MG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
5289290-40-0	TPH	1.7	

270902 1430

Form I

1

FL-PRO ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

DUPQ30228

Laboratories, Inc.	Contract: NAS Cecil Field 10		
Case No.	SAS No:	SDG No.: 2209102	
R	Lab Sample ID: 220910212	Lab File ID: 102-12.D	
20 Units: ML	Date Received: 09/14/02		
ct Volume: 2	Date Extracted: 09/17/02		
LOW	Date Analyzed: 09/18/02	Time: 1019	
0 decanted :	Dilution Factor: 1		
PF	Station ID: Duplicate	Method: FL-PRO	
Y/N) N pH:			
5 ID: 0.53 (mm)			
UNITS: MG/L			

	ANALYTE	RESULT	Q
52	TPH	0.22	U

270902 1430

Form I

1

FL-PRO ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EQBQ30228

Lab Name: PEL Laboratories, Inc.

Contract: NAS Cecil Field 10

Lab Code : PEL Case No.

SAS No: SDG No.: 2209102

Matrix: WATER

Lab Sample ID: 220910213 Lab File ID: 102-13.D

Sample wt/vol: 910 Units: ML

Date Received: 09/14/02

Concentrated Extract Volume: 2

Date Extracted: 09/17/02

Level:(low/med) LOW

Date Analyzed: 09/18/02 Time: 1048

PercentSolids: 0 decanted :

Dilution Factor: 1

Extraction: SEPF

Station ID: Equipment Blank Method: FL-PRO

GPC Cleanup : (Y/N) N pH:

Column(1): RTX-5 ID: 0.53 (mm)

CONCENTRATION UNITS: MG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
5289290-40-0	TPH	0.22	U

270902 1430

Form I

QC Summary

270902 1430

1

FL-PRO ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

91702BLK01

Lab Name: PEL Laboratories, Inc.

Contract: NAS Cecil Field 10

Lab Code : PEL Case No.

SAS No: SDG No.: 2209102

Matrix: WATER

Lab Sample ID: 80642 Lab File ID: 917BLK.D

Sample wt/vol: 1000 Units: ML

Date Received: 09/17/02

Concentrated Extract Volume: 2

Date Extracted: 09/17/02

Level:(low/med) LOW

Date Analyzed: 09/17/02 Time: 2237

PercentSolids: 0 decanted :

Dilution Factor: 1

Extraction: SEPF

Station ID: Method: FL-PRO

GPC Cleanup : (Y/N) N pH:

Column(1): RTX-5 ID: 0.53 (mm)

CONCENTRATION UNITS: MG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
5289290-40-0	TPH	0.2	U

270902 1430

Form I

FL-PRO ORGANIC METHOD BLANK SUMMARY

EPA Sample No.: 91702BLK01

PEL Laboratories, Inc.

Contract: NAS Cecil Field 10

Case No.

SAS No:

SDG No.: 2209102

BLK.D

Lab Sample ID: 80642

SFID02

Date Extracted: 09/17/02

Date Analyzed: 09/17/02

LOW

Time Analyzed: 2237

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

LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
80643	917LCS.D	09/17/02	2306
220910201	102-1.D	09/18/02	0033
220910202	102-2.D	09/18/02	0101
220910203	102-3.D	09/18/02	0130
220910204	102-4.D	09/18/02	0159
220910205	102-5.D	09/18/02	0227
220910206	102-6.D	09/18/02	0257
220910209	102-9.D	09/18/02	0852
220910210	102-10MS.D	09/18/02	0921
220910211	102-11SD.D	09/18/02	0950
220910212	102-12.D	09/18/02	1019
220910213	102-13.D	09/18/02	1048
220910208	102-8R.D	09/18/02	1118
220910207	102-7R.D	09/20/02	1833

Form IV

2A

WATER FL-PRO ORGANIC SURROGATE RECOVERY

Lab Name: PEL Laboratories, Inc. Contract: NAS Cecil Field 103rd Street

Lab Code : PEL Case No. SAS No: SDG NO.: 2209102

Column(1): RTX-5 ID: 0.53 (mm)

EPA Sample NO.	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	TOT OUT
01Q30228	82.0	66.7					0
02Q30228	170.0 *	119.4					1
03Q30228	74.5 *	75.8					1
04Q30228	90.9	81.8					0
05Q30228	85.0	65.1					0
06Q30228	78.2 *	75.0					1
07Q30228	76.0 *	78.3					1
10Q30228	90.9	89.1					0
11Q30228	72.0 *	61.9					1
11Q30228MS	47.3 *	41.8 *					2
11Q30228SD	67.0 *	53.2					1
91702BLK01	89.0	80.0					0
91702LCS01	94.0	78.3					0
DUPQ30228	100.0	72.3					0
EQBQ30228	90.0	78.8					0

Control Limits

S1 = o-Terphenyl Surrogate 82 - 142

S2 = C39 Surrogate 42 - 193

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

Control limit source: (lab/method) METHOD

Form II

270902 1430

FL-PRO ORGANIC ANALYTICAL SEQUENCE

Lab Name: PEL Laboratories, Inc. Contract: NAS Cecil Field 10

Lab Code : PEL Case No. SAS No: SDG No.: 2209102

GC Column: RTX-5 ID: 0.53 (mm) Init. Calib. Date: 09/16/02

Instrument ID: SFID02

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 4.63 S2 : 9.94

	CLIENT SAMPLE NO	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #
1	STD45826	SV6495	09/16/02	2046	4.65	10.02
2	STD45825	SV9496	09/16/02	2115	4.62	9.9
3	STD45824	SV6497	09/16/02	2144	4.63	9.93
4	STD45823	SV9498	09/16/02	2213	4.62	9.9
5	STD45822	SV9499	09/16/02	2242	4.63	9.93
6	STD45821	SV6500	09/16/02	2311	4.63	9.96
7	STD45820	SV6501	09/16/02	2340	4.62	9.91
8	ZZZZZZ	ZZZZZZ	09/17/02	2012		
9	CCV45842	SV6515	09/17/02	2041	4.63	9.96
10	ZZZZZZ	ZZZZZZ	09/17/02	2110		
11	ZZZZZZ	ZZZZZZ	09/17/02	2139		
12	CCV46972	SV6497	09/17/02	2208	4.64	9.94
13	91702BLK01	80642	09/17/02	2237	4.63	9.97
14	91702LCS01	80643	09/17/02	2306	4.61	9.86
15	ZZZZZZ	ZZZZZZ	09/17/02	2335		
16	ZZZZZZ	ZZZZZZ	09/18/02	0004		
17	01Q30228	220910201	09/18/02	0033	4.63	9.92
18	02Q30228	220910202	09/18/02	0101	4.61	9.88
19	03Q30228	220910203	09/18/02	0130	4.62	9.92
20	04Q30228	220910204	09/18/02	0159	4.61	9.86
21	05Q30228	220910205	09/18/02	0227	4.6	9.82
22	06Q30228	220910206	09/18/02	0257	4.63	9.91
23	CCV46973	SV6497	09/18/02	0326	4.61	9.85
24	ZZZZZZ	ZZZZZZ	09/18/02	0354		
25	ZZZZZZ	ZZZZZZ	09/18/02	0823		
26	11Q30228	220910209	09/18/02	0852	4.65	10.01

			QC LIMITS
S1	=	o-Terphenyl Surrogate	(+/- 0.07 MINUTES)
S2	=	C39 Surrogate	(+/- 0.3 MINUTES)

Column used to flag retention time values with an asterisk.

* Values outside of QC limits

Page 1 of 2

270902 1430 FORM VIII

FL-PRO ORGANIC ANALYTICAL SEQUENCE

Lab Name: PEL Laboratories, Inc. Contract: NAS Cecil Field 10

Lab Code : PEL Case No. SAS No: SDG No.: 2209102

GC Column: RTX-5 ID: 0.53 (mm) Init. Calib. Date: 09/16/02

Instrument ID: SFID02

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 4.63 S2 : 9.94

	CLIENT SAMPLE NO	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT	#	S2 RT	#
27	11Q30228MS	220910210	09/18/02	0921	4.63		9.98	
28	11Q30228SD	220910211	09/18/02	0950	4.65		9.99	
29	DUPQ30228	220910212	09/18/02	1019	4.66		10.08	
30	EQBQ30228	220910213	09/18/02	1048	4.65		9.99	
31	10Q30228	220910208	09/18/02	1118	4.66		10.09	
32	CCV46974	SV6497	09/18/02	1148	4.66		10.09	
33	CCV46526	sv6515	09/20/02	1733	4.64		10.01	
34	07Q30228	220910207	09/20/02	1833	4.64		9.94	
35	ZZZZZZ	ZZZZZZ	09/20/02	1903				
36	CCV46527	sv6515	09/20/02	1932	4.64		9.99	

			QC LIMITS
S1	=	o-Terphenyl Surrogate	(+/- 0.07 MINUTES)
S2	=	C39 Surrogate	(+/- 0.3 MINUTES)

Column used to flag retention time values with an asterisk.

* Values outside of QC limits

270902 1430 FORM VIII

3

FL-PRO ORGANIC LAB CONTROL SAMPLE RECOVERY

EPA Sample No.

Lab Name: PEL Laboratories, Inc. Contract: NAS Cecil Field 103rd Street 91702LCS01

Lab Code : PEL Case No. SAS No: SDG No.: 2209102

COMPOUND	SPIKE ADDED MG/L	LCS CONCENTRATION MG/L	LCS % REC #	QC LIMITS REC.
TPH	3.4	3.3	97.1	55 - 118

Spike Recovery: 0 out of 1 outside limits

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS:

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Form III

3

FL-PRO ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Sample No.

Lab Name: PEL Laboratories, Inc. Contract: NAS Cecil Field 103rd 11Q30228MS

Lab Code : PEL Case No. SAS No: SDG No.: 2209102

COMPOUND	SPIKE ADDED MG/L	SAMPLE CONCENTRATION MG/L	MS CONCENTRATION MG/L	MS % REC #	QC LIMITS REC.
TPH	3.8	1.7	2.5	21.1 *	41 - 101

Spike Recovery: 1 out of 1 outside limits

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS:

Form III

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3

FL-PRO ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Sample No.

PEL Laboratories, Inc. Contract: NAS Cecil Field 10 | 11Q30228SD

PEL Case No. SAS No: SDG No.: 2209102

	SPIKE ADDED MG/L	MSD CONCENTRATION MG/L	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
	3.5	3	37.1 *	18.2	20	41 - 101

1 outside limits

1 out of 1 outside limits

sed to flag recovery values with an asterisk

QC limits

(lab/method) METHOD

Form III

Standards Data

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6

FL-PRO ORGANIC INITIAL CALIBRATION DATA

Laboratories, Inc. Contract: NAS Cecil Field 10

Case No. SAS No: SDG No.: 2209102

GFID02 Calibration Date: 09/16/02

X-5 ID: 0.53 (mm) Calibration Time: 2340

RRF0.034 =CAL1.D RRF0.17 =CAL2.D

RRF1.7 =CAL4.D RRF2.55 =CAL5.D

	RRF0.034	RRF0.17	RRF0.85	RRF1.7	RRF2.55
	44045852.941	8840011.765	7094155.294	6983345.294	6456246.667
gate(SURR)	6060240	6177260	6091460	6483520	6510320
URR)	4896060	5265536.667	5515360	5808923.333	5654543.333

FORM VI

FL-PRO ORGANIC INITIAL CALIBRATION DATA

Lab Name: PEL Laboratories, Inc. Contract: NAS Cecil Field 10

Lab Code : PEL Case No. SAS No: SDG No.: 2209102

Instrument ID: SFID02 Calibration Date: 09/16/02

GC Column: RTX-5 ID: 0.53 (mm) Calibration Time: 2340

LAB FILE ID: RRF5.1 =CAL6.D RRF6.8 =CAL7.D

COMPOUND	RRF5.1	RRF6.8			
TPH	6518043.922	6213622.353			
==========					
o-Terphenyl Surrogate(SURR)	6799180	6393120			
C39 Surrogate(SURR)	6324760	6471286.667			

FL-PRO ORGANIC INITIAL CALIBRATION DATA

Lab Name: PEL Laboratories, Inc. Contract: NAS Cecil Field 10

Lab Code : PEL Case No. SAS No: SDG No.: 2209102

Instrument ID: SFID02 Calibration Date: 09/16/02

GC Column: RTX-5 ID: 0.53 (mm) Calibration Time: 2340

COMPOUND	CURVE	COEFFICIENTS AO	COEFFICIENTS A1	%RSD OR R^2
TPH	LINR	-0.15692127	1.621693E-07	0.99887
==========				
o-Terphenyl Surrogate(SURR)	AVRG		6359300	4.2
C39 Surrogate(SURR)	AVRG		5705210	9.8

6

FL-PRO ORGANIC INITIAL CALIBRATION DATA

Lab Name: PEL Laboratories, Inc. Contract: NAS Cecil Field 10

Lab Code : PEL Case No. SAS No: SDG No.: 2209102

Instrument ID: SFID02 Calibration Date: 09/16/02

GC Column: RTX-5 ID: 0.53 (mm) Calibration Time: 2340

LAB FILE ID: RT1: CAL1.D RT2: CAL2.D
RT3: CAL3.D RT4: CAL4.D RT5: CAL5.D

COMPOUND	RT1	RT2	RT3	RT4	RT5	MEAN RT	RT WINDOW FROM	TO
TPH	6.350	6.350	6.350	6.350	6.350			
==========								
o-Terphenyl Surrogate(SURR)	4.623	4.633	4.627	4.617	4.630			
C39 Surrogate(SURR)	9.910	9.963	9.927	9.900	9.933			

6

FL-PRO ORGANIC INITIAL CALIBRATION DATA

Inc. Contract: NAS Cecil Field 10

Case No. SAS No: SDG No.: 2209102

Calibration Date: 09/16/02

ID: 0.53 (mm) Calibration Time: 2340

RT6: CAL6.D RT7: CAL7.D

	RT6	RT7				MEAN RT	RT WINDOW FROM	TO
	6.350	6.350				6.350	1.500	11.200
	4.620	4.647				4.629	4.563	4.703
	9.903	10.020				9.941	9.663	10.263

FORM VI

7SSC

FL-PRO ORGANIC SECONDARY SOURCE CALIBRATION DATA

Lab Name: PEL Laboratories, Inc. Contract: NAS Cecil Field 10

Lab Code : PEL Case No. SAS No: SDG No.: 2209102

Instrument ID: SFID02 CalibrationDate: 09/17/02 Time: 2041

Lab File ID: SECCCV.D Init. Calib. Date: 09/16/02

GC Column: RTX-5 ID: 0.53 (mm)

COMPOUND	SAMPLE AMOUNT	2.55 AMOUNT	CURVE	%D	MAX %D
TPH	2.31	2.55	LINR	9.4	25.0
==========					
C39 Surrogate	0.305	0.3	AVRG	1.7	25.0
o-Terphenyl Surrogate	0.0512	0.05	AVRG	2.4	25.0

7

FL-PRO ORGANIC CONTINUING CALIBRATION DATA

Laboratories, Inc. Contract: NAS Cecil Field 10

Case No. SAS No: SDG No.: 2209102

FID02 CalibrationDate: 09/20/02 Time: 1733

CV1.D Init. Calib. Date: 09/16/02

X-5 ID: 0.53 (mm)

IND	SAMPLE AMOUNT	2.55 AMOUNT	CURVE	%D	MAX %D
	2.47	2.55	LINR	3.1	25.0
==========					
IC	0.357	0.3	AVRG	19.0	25.0
Surrogate	0.0538	0.05	AVRG	7.6	25.0

FORM VII

FL-PRO ORGANIC CONTINUING CALIBRATION DATA

Lab Name: PEL Laboratories, Inc. Contract: NAS Cecil Field 10

Lab Code : PEL Case No. SAS No: SDG No.: 2209102

Instrument ID: SFID02 CalibrationDate: 09/20/02 Time: 1932

Lab File ID: CCV2.D Init. Calib. Date: 09/16/02

GC Column: RTX-5 ID: 0.53 (mm)

COMPOUND	SAMPLE AMOUNT	2.55 AMOUNT	CURVE	%D	MAX %D
TPH	2.4	2.55	LINR	5.9	25.0
C39 Surrogate	0.341	0.3	AVRG	13.7	25.0
o-Terphenyl Surrogate	0.057	0.05	AVRG	14.0	25.0

7

FL-PRO ORGANIC CONTINUING CALIBRATION DATA

Lab Name: PEL Laboratories, Inc. Contract: NAS Cecil Field 10

Lab Code : PEL Case No. SAS No: SDG No.: 2209102

Instrument ID: SFID02 CalibrationDate: 09/17/02 Time: 2208

Lab File ID: CCV1.D Init. Calib. Date: 09/16/02

GC Column: RTX-5 ID: 0.53 (mm)

COMPOUND	SAMPLE AMOUNT	2.55 AMOUNT	CURVE	%D	MAX %D
TPH	2.5	2.55	LINR	2.0	25.0
==========					
o-Terphenyl Surrogate	0.0498	0.05	AVRG	0.4	25.0
C39 Surrogate	0.295	0.3	AVRG	1.7	25.0

FL-PRO ORGANIC CONTINUING CALIBRATION DATA

Lab Name: PEL Laboratories, Inc. Contract: NAS Cecil Field 10

Lab Code : PEL Case No. SAS No: SDG No.: 2209102

Instrument ID: SFID02 CalibrationDate: 09/18/02 Time: 0326

Lab File ID: CCV2.D Init. Calib. Date: 09/16/02

GC Column: RTX-5 ID: 0.53 (mm)

COMPOUND	SAMPLE AMOUNT	2.55 AMOUNT	CURVE	%D	MAX %D
TPH	2.52	2.55	LINR	1.2	25.0
==========					
C39 Surrogate	0.313	0.3	AVRG	4.3	25.0
o-Terphenyl Surrogate	0.0495	0.05	AVRG	1.0	25.0

7

FL-PRO ORGANIC CONTINUING CALIBRATION DATA

Laboratories, Inc. Contract: NAS Cecil Field 10

Case No. SAS No: SDG No.: 2209102

FID02 CalibrationDate: 09/18/02 Time: 1148

CCV3.D Init. Calib. Date: 09/16/02

X-5 ID: 0.53 (mm)

	SAMPLE AMOUNT	2.55 AMOUNT	CURVE	%D	MAX %D
	2.86	2.55	LINR	12.2	25.0
	0.367	0.3	AVRG	22.3	25.0
Surrogate	0.0548	0.05	AVRG	9.6	25.0

FORM VII

7SSC

FL-PRO ORGANIC SECONDARY SOURCE CALIBRATION DATA

Lab Name: PEL Laboratories, Inc. Contract: NAS Cecil Field 10

Lab Code : PEL Case No. SAS No: SDG No.: 2209102

Instrument ID: SFID02 CalibrationDate: 09/17/02 Time: 2041

Lab File ID: SECCCV.D Init. Calib. Date: 09/16/02

GC Column: RTX-5 ID: 0.53 (mm)

COMPOUND	SAMPLE AMOUNT	0 AMOUNT	CURVE	%D	MAX %D
TPH	2.31	2.55	LINR	9.4	25.0
==========					
o-Terphenyl Surrogate	0.0512	0.05	AVRG	2.4	25.0
C39 Surrogate	0.305	0.3	AVRG	1.7	25.0

Inorganics

Inorganic Data Qualifiers

C (Concentration) Qualifier - Entries and their meanings are:

B The reported value obtained was less than the RL but greater than or equal to the MDL.

E The reported value obtained was over calibration or linear range.

U The reported value obtained was less than the MDL or was not detected.

Q Qualifier - Entries and their meanings are:

U The reported value is estimated because of interference. An explanatory comment must be included under "Comments" on the Cover Page if the problem applies to all samples in this data package or on the individual FORM 1 if it is an isolated problem.

M Duplicate injection precision was not met (two analyses of the same sample did not agree).

N Spiked sample recovery not within control limits.

S The reported value was determined by the Method of Standard Additions (MSA).

W Post-digestion spike for Furnace AA analysis is out of control limits (85-115%) while sample absorbance is less than 50% of spike absorbance.

***** Duplicate analysis not within control limits.

+ Correlation coefficient for the MSA is less than 0.995.

X The data is flagged as rejected by analyst utilizing analytical judgement.

Entering "S", "W", or "+" is mutually exclusive. No combination of these qualifiers can apear in the same field.

M (Method) Qualifier - Enter one of the following:

P ICP
A Flame AA
F Furnace AA
CV Manual Cold Vapor AA
TC Total Organic Carbon
AS Semi-Automated Spectrophotometric
CA Midi-Distillation Spectrophotometric
T Titrimetric
C Manual Spectrophotometric
GR Gravimetric
NR Analyte was not required by your lab

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Inorganic Sample ID Qualifiers

The qualifiers that may be appended to the lab sample ID and/or the client sample ID for inorganic analysis are defined below:

DL Diluted reanalysis. Indicates that the results of the original analysis of the sample contained compounds that exceeded the calibration range. The sample was diluted and reanalyzed. May be followed by a digit to indicate multiple dilutions of the sample. The results of more than one diluted reanalysis may be reported.

R Reanalysis. The extract was reanalyzed without re-extraction. The "R" is not used if the sample was also re-extracted. May be followed by a digit to indicate multiple reanalysis of the sample at the same dilution.

RE Re-extracted. The extract was reanalyzed with re-extraction. May be followed by a digit to indicate multiple re-extraction of the same sample at the same dilution.

MS Matrix spike (may be followed by a digit to indicate multiple matrix within a sample set).

SD Matrix spike duplicate (may be followed by a digit to indicate multiple matrix spike duplicate within a sample set).

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METALS DATA PACKAGE
TOTALS

270902 1430

CASE NARRATIVE
METALS

Reference No./SDG: 2209102

H2M Hill

RECEIPT

exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-custody or a communication form is included in the addendum with this package.

HOLDING TIMES

A. **Sample Preparation:** All holding times were met.

B. **Sample Analysis:** All holding times were met.

METHOD

Analyses were performed according to PEL Laboratory's Standard Operating Procedures and EPA method 6010B for ICP metals.

PREPARATION

samples were prepared according to PEL Laboratory's Standard Operating Procedures and method 3010A.

ANALYSIS

A. **Calibration:**

All acceptance criteria were met.

B. **Blanks:**

1. **Calibration Blanks:**

All acceptance criteria were met.

2. **Method Blanks:**

All acceptance criteria were met.

C. **Spikes:**

1. **Laboratory Control Spikes (LCS):**

All acceptance criteria were met.

2. **Post Digestion Spike:**

All acceptance criteria were met.

3. **Matrix Spike/Matrix Spike Duplicate Samples (MS/SD):**

A client requested MS/SD set was analyzed.
All percent recovery and relative percent difference(RPD) criteria were met.

CASE NARRATIVE
METALS

PEL Lab Reference No./SDG: 2209102

Client: CH2M Hill

D. Duplicate:

No sample duplicates are reported with this method. (Spike duplicates are referenced above in section C. Spikes.)

E. Serial Dilution:

All acceptance criteria were met.

F. ICP Interference Check Samples:

All acceptance criteria were met.

G. Samples:

Sample analysis proceeded normally.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and PEL, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as, verified by the following signature.

SIGNED: _____ **DATE:** 9/26/02

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COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Laboratories, Inc. Contract: NAS Cecil Field 103rd Str

Case No. SDG No.: 2209102

EPA Sample No	Lab Sample ID
01Q30228	220910201
02Q30228	220910202
03Q30228	220910203
04Q30228	220910204
05Q30228	220910205
06Q30228	220910206
07Q30228	220910207
10Q30228	220910208
11Q30228	220910209
DUPQ30228	220910212
EQBQ30228	220910213

ment corrections applied?	Yes/No	Yes
ground corrections applied?	Yes/No	Yes
are raw data generated before ot background corrections?	Yes/No	No

Sample Data

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INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

01Q30228

Lab Name: PEL Laboratories, Inc. Contract: NAS Cecil Field 10

Lab Code : PEL Case No. SAS No: SDG No.: 2209102

Matrix: WATER Lab Sample ID: 220910201

Level:(low/med) LOW Date Received: 9/14/2002

PercentSolids: 0 Station ID: CEF-103-SMW-01

CONCENTRATION UNITS: UG/L

CAS NO.	ANALYTE	Concentration	C	Q	M
7439-92-1	Lead	5	U		P

Color Before: _____ Clarity Before: _____ Texture :_____

Color After : _____ Clarity After: _____ Artifacts:_____

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

02Q30228

Lab Name: PEL Laboratories, Inc. Contract: NAS Cecil Field 10

Lab Code : PEL Case No. SAS No: SDG No.: 2209102

Matrix: WATER Lab Sample ID: 220910202

Level:(low/med) LOW Date Received: 9/14/2002

PercentSolids: 0 Station ID: CEF-103-SMW-02

CONCENTRATION UNITS: UG/L

CAS NO.	ANALYTE	Concentration	C	Q	M
7439-92-1	Lead	5	U		P

Color Before: _____ Clarity Before: _____ Texture :_____

Color After : _____ Clarity After: _____ Artifacts:_____

Comments:

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INORGANIC ANALYSIS DATA SHEET

EL Laboratories, Inc.	Contract: NAS Cecil Field 10	EPA Sample No.	03Q30228
EL Case No.	SAS No:	SDG No.: 2209102	
ER	Lab Sample ID: 220910203		
OW	Date Received: 9/14/2002		
	Station ID: CEF-103-SMW-03		

ON UNITS: *UG/L*

ANALYTE	Concentration	C	Q	M
ead	31.3			P

Clarity Before: _____ Texture :_____

Clarity After: _____ Artifacts:_____

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1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

04Q30228

Lab Name: PEL Laboratories, Inc. Contract: NAS Cecil Field 10

Lab Code : PEL Case No. SAS No: SDG No.: 2209102

Matrix: WATER Lab Sample ID: 220910204

Level:(low/med) LOW Date Received: 9/14/2002

PercentSolids: 0 Station ID: CEF-103-SMW-04

CONCENTRATION UNITS: UG/L

CAS NO.	ANALYTE	Concentration	C	Q	M
7439-92-1	Lead	5	U		P

Color Before: _____ Clarity Before: _____ Texture :_____

Color After : _____ Clarity After: _____ Artifacts:_____

Comments:

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1

INORGANIC ANALYSIS DATA SHEET

			EPA Sample No.
PEL Laboratories, Inc.	Contract: NAS Cecil Field 10		05Q30228
Case No.	SAS No:	SDG No.: 2209102	
	Lab Sample ID: 220910205		
LOW	Date Received: 9/14/2002		
	Station ID: CEF-103-SMW-05		

ION UNITS: UG/L

ANALYTE	Concentration	C	Q	M
Lead	5	U		P

Clarity Before: _____ Texture :_____

Clarity After: _____ Artifacts:_____

Comments

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INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

06Q30228

Lab Name: PEL Laboratories, Inc. Contract: NAS Cecil Field 10

Lab Code : PEL Case No. SAS No: SDG No.: 2209102

Matrix: WATER Lab Sample ID: 220910206

Level:(low/med) LOW Date Received: 9/14/2002

PercentSolids: 0 Station ID: CEF-103-SMW-06

CONCENTRATION UNITS: UG/L

CAS NO.	ANALYTE	Concentration	C	Q	M
7439-92-1	Lead	5	U		P

Color Before: _____ Clarity Before: _____ Texture :_____

Color After : _____ Clarity After: _____ Artifacts:_____

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

07Q30228

Lab Name: PEL Laboratories, Inc. Contract: NAS Cecil Field 10

Lab Code : PEL Case No. SAS No: SDG No.: 2209102

Matrix: WATER Lab Sample ID: 220910207

Level:(low/med) LOW Date Received: 9/14/2002

PercentSolids: 0 Station ID: CEF-103-SMW-07

CONCENTRATION UNITS: UG/L

CAS NO.	ANALYTE	Concentration	C	Q	M
7439-92-1	Lead	2.4	B		P

Color Before: _____ Clarity Before: _____ Texture :_____

Color After : _____ Clarity After: _____ Artifacts:_____

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

10Q30228

Lab Name: PEL Laboratories, Inc.

Contract: NAS Cecil Field 10

Lab Code : PEL

Case No.

SAS No:

SDG No.: 2209102

Matrix: WATER

Lab Sample ID: 220910208

Level:(low/med) LOW

Date Received: 9/14/2002

PercentSolids: 0

Station ID: CEF-103-SMW-10

CONCENTRATION UNITS: UG/L

CAS NO.	ANALYTE	Concentration	C	Q	M
7439-92-1	Lead	5	U		P

Color Before: _____ Clarity Before: _____ Texture :_____

Color After : _____ Clarity After: _____ Artifacts:_____

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

11Q30228

PEL Laboratories, Inc.

Contract: NAS Cecil Field 10

PEL Case No.

SAS No:

SDG No.: 2209102

WATER

Lab Sample ID: 220910209

LOW

Date Received: 9/14/2002

Station ID: CEF-103-SMW-11

ION UNITS: UG/L

ANALYTE	Concentration	C	Q	M
Lead	35.1			P

Clarity Before: _____ Texture :_____

Clarity After: _____ Artifacts:_____

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INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

DUPQ30228

Lab Name: PEL Laboratories, Inc. Contract: NAS Cecil Field 10

Lab Code : PEL Case No. SAS No: SDG No.: 2209102

Matrix: WATER Lab Sample ID: 220910212

Level:(low/med) LOW Date Received: 9/14/2002

PercentSolids: 0 Station ID: Duplicate

CONCENTRATION UNITS: UG/L

CAS NO.	ANALYTE	Concentration	C	Q	M
7439-92-1	Lead	5	U		P

Color Before: _____ Clarity Before: _____ Texture :_____

Color After : _____ Clarity After: _____ Artifacts:_____

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

EQBQ30228

PEL Laboratories, Inc.

Contract: NAS Cecil Field 10

PEL Case No.

SAS No:

SDG No.: 2209102

TER

Lab Sample ID: 220910213

LOW

Date Received: 9/14/2002

0

Station ID: Equipment Blank

ION UNITS: UG/L

ANALYTE	Concentration	C	Q	M
Lead	5	U		P

Clarity Before: _____ Texture :_____

Clarity After: _____ Artifacts:_____

QC Summary

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2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: PEL Laboratories, Inc. Contract: NAS Cecil Field 10

Lab Code : PEL Case No. SAS No: SDG No.: 2209102

Initial Calibration Source: MET-27104

Continuing Calibration Source: MET-27604

Concentration Units: (UG/L)

Analyte	Initial Calibration			Continuing Calibration					
	True	Found	%R (1)	True	Found	%R (1)	Found	%R (1)	M
Lead	400	396.811	99.2	500	503.203	100.6	502.531	100.5	P

(1) Control Limits: Mercury 80-120; Cyanide 85-115; Other Metals 90-110

ICV is Second Source

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2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: PEL Laboratories, Inc. Contract: NAS Cecil Field 10

Lab Code : PEL Case No. SAS No: SDG No.: 2209102

Initial Calibration Source:

Continuing Calibration Source: MET-27604

Concentration Units: (UG/L)

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R (1)	True	Found	%R (1)	Found	%R (1)	
Lead				500	509.120	101.8	513.296	102.7	P

(1) Control Limits: Mercury 80-120; Cyanide 85-115; Other Metals 90-110

ICV is Second Source

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2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

aboratories, Inc. Contract: NAS Cecil Field 10

Case No. SAS No: SDG No.: 2209102

rce:

Source: MET-27604

Concentration Units: (UG/L)

Initial Calibration			Continuing Calibration					
True	Found	%R (1)	True	Found	%R (1)	Found	%R (1)	M
			500	503.466	100.7	505.398	101.1	P

Mercury 80-120; Cyanide 85-115; Other Metals 90-110

rce

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3

BLANKS

Lab Name: PEL Laboratories, Inc. Contract: NAS Cecil Field 10

Lab Code : PEL Case No. SAS No: SDG No.: 2209102

Preparation Blank Matrix (water/soil): WATER

Preparation Blank Concentration Units (ug/L or mg/Kg): UG/L

Analyte	Initial Calib. Blank (UG/L)	C	Continuing Calibration Blank (UG/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Lead	5	U	5	U	5	U	5	U	5	U	P

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3

BLANKS

Laboratories, Inc. Contract: NAS Cecil Field 10

Case No. SAS No: SDG No.: 2209102

Matrix (water/soil):

Concentration Units (ug/L or mg/Kg):

Initial Calib. Blank (UG/L)	C	Continuing Calibration Blank (UG/L) 4	C	5	C	6	C	Prepa-ration Blank	C	M
		5	U	5	U	5	U			P

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ICP INTERFERENCE CHECK SAMPLE

Lab Name: PEL Laboratories, Inc. Contract: NAS Cecil Field 103rd Street

Lab Code : PEL Case No. SAS No: SDG No.: 2209102

ICP ID#: ICAP ICSA Source: MET-27102

ICSAB Source: MET-25604

Concentration Units: UG/L

Analyte	True		Initial Found			Final Found		
	Sol. A	Sol. AB	Sol. A	Sol. AB	%R	Sol. A	Sol. AB	%R
Lead	0	50		52.052	104.1			

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5A

SPIKE SAMPLE RECOVERY

EPA Sample No.

11Q30228MS

Lab Name: PEL Laboratories, Inc. Contract: NAS Cecil Field 103rd Stree

Lab Code : PEL Case No. SAS No: SDG No.: 2209102

Matrix: WATER Level:(low/med) LOW

% Solids for Sample: 0

Concentration Units (mg/L or mg/kg): UG/L

Analyte	Control Limit %R	Spiked Sample	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Lead	75 - 125	531		35.1		500	99.2		P

Comments:

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5A

SPIKE SAMPLE RECOVERY

EPA Sample No.

11Q30228SD

Lab Name: PEL Laboratories, Inc. Contract: NAS Cecil Field 103rd Street

Lab Code : PEL Case No. SAS No: SDG No.: 2209102

Matrix: WATER Level:(low/med) LOW

% Solids for Sample: 0

Concentration Units (mg/L or mg/kg): UG/L

Analyte	Control Limit %R	Spiked Sample	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Lead	75 - 125	537		35.1		500	100.4		P

Comments:

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5B

POST DIGEST SPIKE SAMPLE RECOVERY

EPA Sample No.

11Q30228A

PEL Laboratories, Inc. Contract: NAS Cecil Field 103rd Street

PFL Case No. SAS No: SDG No.: 2209102

TR Level:(low/med) LOW

Concentration Units (ug/L or mg/kg): ug/L

	Control Limit %R	Spiked Sample	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
	80 - 120	522.00		35.10		500	97.4		P

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DUPLICATES

EPA Sample No.

11Q30228SD

Lab Name: PEL Laboratories, Inc. Contract: NAS Cecil Field 103rd Str

Lab Code : PEL Case No. SAS No: SDG No.: 2209102

Matrix: WATER Level:(low/med) LOW

% Solids for Sample: 0 % Solids for Duplicate: 0

Concentration Units (mg/L or mg/kg): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Lead	20	531		537		1.1		P

Comments:

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LABORATORY CONTROL SAMPLE

EPA Sample No.

81042LCS

L ratories, Inc. Contract: NAS Cecil Field 103rd Street

L ase No. SAS No: SDG No.: 2209102

S

A MET-25501, MET-24901

	Aqueous (UG/L)			Solid				
	True	Found	%R	True	Found	C	Limits	%R
	500	499	99.8				-	

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ICP SERIAL DILUTIONS

EPA Sample No.

11Q30228L

Lab Name: PEL Laboratories, Inc. Contract: NAS Cecil Field 10

Lab Code : PEL Case No. SAS No: SDG No.: 2209102

Matrix: WATER Level:(low/med) LOW

Concentration Units (ug/L or mg/kg): ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Differ-ence	Q	M
Lead	35.10		36.80		4.8		P

Comments:

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METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: PEL Laboratories, Inc. Contract: NAS Cecil Field 103rd Str

Lab Code : PEL Case No. SAS No: SDG No.: 2209102

ICP ID Number : ICAP Date: 4/1/2002

Furnace AA ID Number :

Analyte	Wave-length (nm)	Back-ground	CRDL (UG/L)	MDL (UG/L)	M
Lead	220.3		5	1.3	P

Comments:

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11A

INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: PEL Laboratories, Inc. Contract: NAS Cecil Field 103rd Street

Lab Code : PEL Case No. SAS No.: SDG No.: 2209102

ICP ID Number : ICAP Date: 1/26/2002

Analyte	Wave-length	Interelement Correction Factors for:				
		Al	Ca	Cr	Fe	Mg
Lead	220.3	-0.000023	-0.000014		0.000055	

Comments:

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11B

INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Laboratories, Inc. Contract: NAS Cecil Field 103rd Street

Case No. SAS No.: SDG No.: 2209102

ICAP Date: 1/26/2002

Wave-length	Interelement Correction Factors for:				
	Mn	Mo	Sb	V	
220.3		-0.000814			

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ICP LINEAR RANGES (SEMI-ANNUALLY)

Lab Name: PEL Laboratories, Inc. Contract: NAS Cecil Field 10

Lab Code : PEL Case No. SAS No: SDG No.: 2209102

ICP ID NUMBER ICAP DATE : 9/17/2002

Analyte	Integ. Time (sec.)	Concentration UG/L	M
Lead	15	25000	P

Comments:

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PREPARATION LOG

Laboratories, Inc. Contract: NAS Cecil Field 10

Case No. SAS No: SDG No.: 2209102

	Preparation Date	Weight (gram)	Volume (mL)
	19 Sep 02		50
	19 Sep 02		50
	19 Sep 02		50
	19 Sep 02		50
	19 Sep 02		50
	19 Sep 02		50
	19 Sep 02		50
	19 Sep 02		50
	19 Sep 02		50
	19 Sep 02		50
	19 Sep 02		50
	19 Sep 02		50
	19 Sep 02		50
	19 Sep 02		50
	19 Sep 02		50

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ANALYSIS RUN LOG

Lab Name: PEL Laboratories, Inc. Contract: NAS Cecil Field 10

Lab Code : PEL Case No. SAS No: SDG No.: 2209102

Instrument ID Number : ICAP Method : P

Start Date : 9/23/2002 End Date : 9/23/2002

EPA Sample No.	D/F	Time	%R	Analytes																								
				AG	AL	AS	BA	BE	CA	CD	CN	CO	CR	CU	FE	HG	K	MG	MN	MO	NA	NI	PB	SB	SE	SN	SR	TI	TL	V	ZN
STD1-B	1	14:09																					X								
STD3	1	14:15																					X								
STD2	1	14:20																													
ICV	1	14:24																					X								
ICB	1	14:29																					X								
ZZZZZZ	1	14:35																													
ICSA	1	14:40																					X								
ICSAB	1	14:46																					X								
ZZZZZZ	1	14:51																													
CCV	1	14:57																					X								
CCB	1	15:02																					X								
ZZZZZZ	1	15:08																													
ZZZZZZ	1	15:13																													
ZZZZZZ	1	15:19																													
ZZZZZZ	1	15:24																													
ZZZZZZ	5	15:30																													
ZZZZZZ	1	15:35																													
ZZZZZZ	1	15:40																													
ZZZZZZ	1	15:46																													
ZZZZZZ	1	15:51																													
ZZZZZZ	1	15:57																													
CCV	1	16:02																					X								
CCB	1	16:07																					X								
ZZZZZZ	1	16:13																													
ZZZZZZ	1	16:18																													
ZZZZZZ	1	16:24																													
ZZZZZZ	1	16:29																													
ZZZZZZ	1	16:34																													
ZZZZZZ	1	16:40																													
ZZZZZZ	1	16:45																													
ZZZZZZ	1	16:51																													
ZZZZZZ	1	16:56																													
ZZZZZZ	1	17:02																													
CCV	1	17:07																					X								
CCB	1	17:12																					X								
ZZZZZZ	1	17:18																													

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14

ANALYSIS RUN LOG

Lab Name: PEL Laboratories, Inc. Contract: NAS Cecil Field 10

Lab Code : PEL Case No. SAS No: SDG No.: 2209102

Instrument ID Number : ICAP Method : P

Start Date : 9/23/2002 End Date : 9/23/2002

EPA Sample No.	D/F	Time	%R	Analytes																								
				AG	AL	AS	BA	BE	CA	CD	CN	CO	CR	CU	FE	HG	K	MG	MN	MO	NA	NI	PB	SB	SE	SN	SR	TI	TL	VI	ZN
ZZZZZZ	1	17:23																													
CCV	1	17:29																					X								
ZZZZZZ	1	17:34																													
CCB	1	17:41																					X								
81041BLK	1	17:52																					X								
81042LCS	1	17:57																					X								
ZZZZZZ	1	18:03																													
11Q30228	1	18:08																					X								
11Q30228L	5	18:14																					X								
11Q30228MS	1	18:19																					X								
11Q30228SD	1	18:24																					X								
11Q30228A	1	18:30																					X								
DUPQ30228	1	18:35																					X								
EQBQ30228	1	18:41																					X								
CCV	1	18:46																					X								
CCB	1	18:51																					X								
01Q30228	1	18:57																					X								
02Q30228	1	19:02																					X								
03Q30228	1	19:08																					X								
04Q30228	1	19:13																					X								
05Q30228	1	19:19																					X								
06Q30228	1	19:24																					X								
07Q30228	1	19:29																					X								
10Q30228	1	19:35																					X								
ZZZZZZ	1	19:40																													
ZZZZZZ	1	19:46																													
CCV	1	19:51																					X								
CCB	1	19:57																					X								

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Chain of Custody Documentation

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2209-102 SB

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
163151-060 Page 1 of 2

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	163151	PEL / Darcy Wiseman	Bill Canelos / J.A Jones Env. Services	6219 Authority Ave. Jacksonville, FL 32222 (904) 7774812,FAX: (904) 7774262
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	0062	2712	Christelle Newsome / 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.):
Bill Canelos	Ph:(904)777-4812 Fax:(904) 777-4262	Ph: (813)247-2805 Fax: (813)248-1537		

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 8260B	PAHs by 8310	Lead by 6010B	TRPH by FL-PRO							SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	062-SMW01-Q3-02-28	CEF-103-SMW-01	W	09/12/02	16:45	III/C	14	3	1	1	1							Grab		01
2	062-SMW02-Q3-02-28	CEF-103-SMW-02	W	09/12/02	10:40	III/C	14	3	1	1	1							Grab		02
3	062-SMW03-Q3-02-28	CEF-103-SMW-03	W	09/12/02	15:25	III/C	14	3	1	1	1							Grab		03
4	062-SMW04-Q3-02-28	CEF-103-SMW-04	W	09/12/02	13:15	III/C	14	3	1	1	1							Grab		04
5	062-SMW05-Q3-02-28	CEF-103-SMW-05	W	09/12/02	14:30	III/C	14	3	1	1	1							Grab		05
6	062-SMW06-Q3-02-28	CEF-103-SMW-06	W	09/13/02	9:50	III/C	14	3	1	1	1							Grab		06
7	062-SMW07-Q3-02-28	CEF-103-SMW-07	W	09/13/02	8:30	III/C	14	3	1	1	1							Grab		07
8	062-SMW10-Q3-02-28	CEF-103-SMW-10	W	09/13/02	10:50	III/C	14	3	1	1	1							Grab		08
9	062-SMW11-Q3-02-28	CEF-103-SMW-11	W	09/12/02	11:30	III/C	14	9	3	3	3							Grab	MS/MSD	09,10,11
10	062-DUP-Q3-02-28	Duplicate	W	09/12/02	NA	III/C	14	3	1	1	1							Grab		12

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 # 791930949430, 791930949441, 792104269327, 791930949496. (3 Coolers)	Temp upon rec'd 4C pH<2 (8260, 6010, Pro) Lead

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature:			Printed Name and Signature:		
R.Dumaop	9/13/02	13:00	Federal Express	9/13/02	13:00
Printed Name and Signature:			Printed Name and Signature: Stacey Breslow		
			Stacey Breslow	9-14-02	10:45
Printed Name and Signature:			Printed Name and Signature:		

2209-10C SB

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
163151-060 Page 2 of 2

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	163151	PEL / Darcy Wiseman	Bill Canelos / J.A Jones Env. Services	6219 Authority Ave. Jacksonville, FL 32222 (904) 7774812,FAX: (904) 7774262
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	0062	2712	Christelle Newsome / 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.):
Bill Canelos	Ph:(904)777-4812 Fax:(904) 777-4262	Ph: (813)247-2805 Fax: (813)248-1537		

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 8260B	PAHs by 8310	Lead by 6010B	TRPH by FL-PRO							SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	062-EQB-Q3-02-28	Equipment Blank	W	09/13/02	8:50	III/C	14	3	1	1	1							Grab		13
2	062-TB-Q3-02-28	Trip Blank	W	NA	NA	III/C	14	1										Grab		14
3	Temp Blank	Temp Blank	W	NA	NA	III/C	14					4								
4																				
5																				
6																				
7																				
8																				
9																				
10																				

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

COURIER AND SHIPPING NUMBER:
Federal Express TRK # 791930949430, 791930949441, 792104269327, 791930949496. (3 Coolers)

SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:
Temp upon rec'd 4C
pH<2 (8260, 6010, Pro) Lead

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature: R. Dumaop	9/13/02	13:00	Printed Name and Signature: Federal Express	9/13/02	13:00
Printed Name and Signature:			Printed Name and Signature: Stacey Breslow	9-14-02	10:45
Printed Name and Signature:			Printed Name and Signature:		

PEL LABS SAMPLE LOG IN SHEET

Project #

Client Information

Client: CH2MHill	Date Rec'd: 9-14-02
Project: Cecil Field	Due Date:
Log In Tech: SB	Rec'd via: Client Crosstown FedEx
Comments:	Other:

Sample Verification

	YES	NO		YES	NO
Samples/Cooler Secure?	X		All Smples on COC Accounted For?	X	
Samples Rec'd on Ice?	X		All Samples Rec'd Intact?	X	
Temperature WNL?	X		Sample Vol. Suff. For Analysis?	X	
Temperature of Samples(°C)	4C		Samples Rec'd W/I Hold Time?	X	
pH Verified? pH<2	X		Are All Samples to be Analyzed?	X	
pH WNL?	X		Correct Sample Containers?	X	
Soil Origin Domestic?	N	A	Soil Origin Foreign?	N	A

COC Verification

	YES	NO		YES	NO
Site Location/Project on COC?	X		Samplers Initials on COC?	X	
Client Project # on COC?	X		Sample Time/Date Indicated?	X	
Project Mgr. Indicated on COC?	X		TAT requested: STD/ RUSH	X	
COC Relinquished/Dated by Client?	X		Client Requests Verbal Results?	X	
COC Received/Dated by PEL?	X		Client Requests Fax'd Results?	X	
			PEL to Conduct ALL Analyses?	X	
			Specific Subcontract Indicated?	N	A

Subcontracted Analysis

Subcontractor:	Subcontractor:	Subcontractor:
Due Date:	Due Date:	Due Date:
Parameter:	Parameter:	Parameter:
Via: Crosstown FedEx	Via: Crosstown FedEx	Via: Crosstown FedEx
Tracking #:	Tracking #:	Tracking #:

pH LOG SHEET

WO# 2209-102

By [illegible]

Client/Project CH2MHill / Cecil Field

Date 9-16-02

PEL Sample Number	H2SO4 pH<2	HNO3 pH<2	NaOH pH>12	ZnAC NaOH pH>9	HCL pH<2	Other ____ pH ____
01	(1) pH<2				(3) pH<2	
02						
03						
04						
05						
06						
07						
08						
09						
10						
11						
12						
13	(1) pH<2				(3) pH<2	
~~14~~						

CH2MHill | Cecil 2209-102

Sample#	Parameter	Rel'd	Rec'd	Date	Time
01-13	6010 (w)	✓	GK	9/19/02	1330
01-13	6010 (w)	GK	✓	9/19/02	1430
01-14	8260 (w)	✓	MG	9/20/02	6:30
01-14	8260 (w)	MG	✓	9/20/02	6:30
01-13	8310 (w)	✓	MG	9/16/02	14:00
01-13	8310 (w)		Consumed		
01-13	FL Pro (w)	✓	KC	91702	820
01-13	FL Pro (w)	KC	consumed		

Addendum

270902 1430

Letter of Acceptance

Cu		CH2M Hill
Dat	**d:**	9/14/02 10:45:00 AM
Dat		10/5/02
Lab	**Number/SDG:**	2209102
Pro		NAS Cecil Field 103rd Street

Sam submission consisted of 14 samples with sample identification shown in the ned data tables.

Test amples will be analyzed for EPA methods: 6010, 8260, 8310, FL-PRO.

Sam **discrepancies:**

Note

Distr **to:**

CH2M
Attn:
Phon
F (90

Note: **be retained for 30 days unless otherwise requested by client or consumed in analysis. PEL letters and reports** **se of the client to whom they are addressed. Our Letters and reports apply to the sample tested and are not nec** **he qualities of apparently identical or similar materials**

Log-in Report

Level: 4

Total of: 53 analyses on 14 samples (including QC)

17-Sep-02

Report/SDG #: 2209102

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
01Q30228	220910201	CEF-103-SMW	W	9/12/02 4:45:00 PM	9/14/02 10:45:00 AM

Method		
6010	Metals	6010
8260	Volatile Organic Compounds	8260
8310	PAH	8310
FL-PRO	Petroleum Hydrocarbons	FL-PRO

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
02Q30228	220910202	CEF-103-SMW	W	9/12/02 10:40:00 AM	9/14/02 10:45:00 AM

Method		
6010	Metals	6010
8260	Volatile Organic Compounds	8260
8310	PAH	8310
FL-PRO	Petroleum Hydrocarbons	FL-PRO

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
03Q30228	220910203	CEF-103-SMW	W	9/12/02 3:25:00 PM	9/14/02 10:45:00 AM

Method		
6010	Metals	6010
8260	Volatile Organic Compounds	8260
8310	PAH	8310
FL-PRO	Petroleum Hydrocarbons	FL-PRO

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
04Q30228	220910204	CEF-103-SMW	W	9/12/02 1:15:00 PM	9/14/02 10:45:00 AM

Method		
6010	Metals	6010
8260	Volatile Organic Compounds	8260
8310	PAH	8310
FL-PRO	Petroleum Hydrocarbons	FL-PRO

#: **2209102**

	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
05(	220910205	CEF-103-SMW	W	9/12/02 2:30:00 PM	9/14/02 10:45:00 AM

Metals	6010
Volatile Organic Compounds	8260
PAH	8310
Petroleum Hydrocarbons	FL-PRO

	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
06(	220910206	CEF-103-SMW	W	9/13/02 9:50:00 AM	9/14/02 10:45:00 AM

Metals	6010
Volatile Organic Compounds	8260
PAH	8310
Petroleum Hydrocarbons	FL-PRO

	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
07(	220910207	CEF-103-SMW	W	9/13/02 8:30:00 AM	9/14/02 10:45:00 AM

Metals	6010
Volatile Organic Compounds	8260
PAH	8310
Petroleum Hydrocarbons	FL-PRO

	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
10(	220910208	CEF-103-SMW	W	9/13/02 10:50:00 AM	9/14/02 10:45:00 AM

Metals	6010
Volatile Organic Compounds	8260
PAH	8310
Petroleum Hydrocarbons	FL-PRO

Report/SDG #: 2209102

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
11Q30228	220910209	CEF-103-SMW	W	9/12/02 11:30:00 AM	9/14/02 10:45:00 AM

Method		
6010	Metals	6010
8260	Volatile Organic Compounds	8260
8310	PAH	8310
FL-PRO	Petroleum Hydrocarbons	FL-PRO

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
11Q30228MS	220910210	CEF-103-SMW	W	9/12/02 11:30:00 AM	9/14/02 10:45:00 AM

Method		
6010	Metals	6010
8260	Volatile Organic Compounds	8260
8310	PAH	8310
FL-PRO	Petroleum Hydrocarbons	FL-PRO

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
11Q30228SD	220910211	CEF-103-SMW	W	9/12/02 11:30:00 AM	9/14/02 10:45:00 AM

Method		
6010	Metals	6010
8260	Volatile Organic Compounds	8260
8310	PAH	8310
FL-PRO	Petroleum Hydrocarbons	FL-PRO

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
DUPQ30228	220910212	Duplicate	W	9/12/02	9/14/02 10:45:00 AM

Method		
6010	Metals	6010
8260	Volatile Organic Compounds	8260
8310	PAH	8310
FL-PRO	Petroleum Hydrocarbons	FL-PRO

Report/SDG #: 2209102

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
EQBQ30228	220910213	Equipment	W	9/13/02 8:50:00 AM	9/14/02 10:45:00 AM

Method		
6010	Metals	6010
8260	Volatile Organic Compounds	8260
8310	PAH	8310
FL-PRO	Petroleum Hydrocarbons	FL-PRO

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
TBQ30228	220910214	Trip Blank	W	9/13/02	9/14/02 10:45:00 AM

Method		
8260	Volatile Organic Compounds	8260

2209-102
Raw Data
GC Volatile Organics
(Method 8260)

ICAL - DATE 8/27/02

Vr 8260 (H2O) (M3082702) 8/27/02 Auto IS - WATER- PATH

File	STD/SURR/ISTDS	Amount	client
BFB31	6167,6251	50ng	Pal-Qc
300ppt	6292,93,94,95	300ppt	
500ppt		500ppt	
1ppb		1ppb	
2ppb		2ppb	
5ppb		5ppb	
10ppb		10ppb	
20ppb		20ppb	
50ppb		50ppb	
60ppb		60ppb	
80ppb		80ppb	
SEC3L	(low sec) 6261,6262	50ppb	
SEC3Z	6296,97,98	50ppb	

Reviewed by MSG 8/27/02

ICAL - DATE: 8/27/02

iJms03 8260 (H2O) (M3092502) 9/25/02 Auto-IS - WATER - PATH

	File	STD/Sver/IS#5	Amount	client
1	BFB31	6167, 6277	50ng	Pal-Cu
2	BFB32	" "	↓	
3	50CCU31	6292, 93, 94, 95	50ppb	
4	LCS31	6296, 97, 98	20ppb	
5	BIK5	" "		
6	BIK50	" "		
7	10210 (MS)	" "	20ppb	Cecil Cu
8	10211 (MSD)	" "	↓	↓
9	BIK31	6167, 6277	5ml	
10	BIK32	" "	↓	
11	15901	" "		(Rush)(Pit-6)(Level III)
12	2	" "		
13	3	" "		
14	4	" "		
15	16006	" "		
16	16007	" "		
17	10209 (background!)	" "	5ml	(Cecil-Field)(Level IV)
	2	" "		
	3	" "		
	4	" "		
	5	" "		
	6	" "		
	7	" "		
	8	" "		
	1	" "		
	12	" "		
	13	" "		
	14	" "		
	15904D 1/5		5ml	(Rush)(Pit-6)(Level III)

VOS#	Date Prep.	By	Description	Origin/Lot #	Date Rec'd	Diluent/Lot #	Amt. for Dil.	Final Vol.	[redacted]	
6159	4/29/02	LM	8260 Ketones/ Acr QC	6113 6114			50ml ~~20ml~~ act	100ml ~~50ml~~	50 µg/ml	
6160	4/29/02	LM								
6161	4/29/02	LM	ChemService n-Tetradecane	Lot# 256-96A	4/16/02	exp 02/07.			5g	
6162	4/29/02	LM	n-Octane ChemService	Lot # 266-43A	4/16/02	exp 06/06			1g	
6163	5/3/02	gp	n-Tetradecane STOCK RT check	VOS 6161	—	B+J Brand MeOH Lot CE113	13.1 µl	100 ML	100 µg/ML	
6164	5/3/02	gp	n-Dodecane STOCK RT check	VOS 6162	—	B+J Brand MeOH Lot CE113	13.4 µl	100 ML	100 µg/ML	
6165 A-D	5/16/02	gp	1,1,2-TC-1,2,2-TFEthane M-REF-14	AccuStd Lot# A810018214	5/16/02	—	—	—	—	
6166	5/22/02	KM AmH	8021 Low Surrogate	Vos 6135	—	MeOH B+J Lot CE113	500 ul	10 ml	1 ug/ml.	6/25/02
6167	5/24/02	MJ	8260 IS	6017D	-	B&J LOT CE113 MeOH	5ml	50ml	250 ppm	
6168	5/24/02	MJ	8260 IS	6017D	—	B&J LOT CE113 MeOH	25ml	25ml	25 ppm	

F2186S EXP:09/03 5ml

CHEM SERVICE
PO BOX 599, WEST CHESTER, PA 19381 800-452-9994

2-Methylpentane Solution
100ug/ml in Methanol
Lot: 281-46B

FLAMMABLE-POISON
WARNING!: READ your MSDS before HANDLING chemical.

[redacted]

VOS#	Date Prep.	By	Description	Origin/Lot #	Date Rec'd	Dilutent/Lot #	Amt. for Dil.	Final Vol.	Final Conc.	Discarded	
6247	7/20/02	LM	8260 cal VA, IM MTBE, CS_2	6215			1.25mL	50mL	50ppm		
6248	7/20/02	LM	8260 cal Ketone/ Acr.	6214 6219			500µL	50mL	100ppm		
6249	7/20/02	LM	8260 gas cal	6119B 6204B			1.25mL	50mL	500ppm		
6250	7/25/02	AmH	18A/10WA 15/SS	6130 6068D	4/8/02 2/11/02	MeOH B&J CE113	750µL	50mL	30µg/mL		Exp 1-25-02
6251	7/30/02	LM	8260 Surr	VOS6102A		↓	1.0mL	100mL	25ug/mL		
6252 A-C	8-1-02	AmH	cis-1,2 DCE AccuStandard	Lot: B1060127	8-1-02	—	—	—	2.0mg/mL		Exp 7-26-05
6253	8-1-02	AmH	18 A CAL STD	VOS 5951B	10/24/01	—	—	—	2000µg/mL		Exp 2-1-03
6254	8-1-02	AmH	18A QC MTBE	VOS6199B	6-24-02	—	—	—	2000µg/mL		Exp 2-1-03
6255	8-1-02	AmH	18A QC BTEX	VOS 6235C	7-10-02	—	—	—	2000µg/mL		Exp 2-1-03
6256	8-2-02	MB	Cat.#30288 Ethanol Standard Lot# A019401 Expires:8/05 Store @ -18 C 2000 ug/ml in purge and trap methanol FOR LABORATORY USE ONLY								

VOS#	Date Prep.	By	Description	Origin/Lot #	Date Rec'd	Dilutent/Lot #	Amt. for Dil.	Final Vol.	Final Conc.	Discarded
6277	8/26/02	MS	8260 SURR	VOS 6102C		MeOH B&J CE113	1.0ml	100ml	25ppm	
6278	—	MS	8260 main mix (Primary)	524MM12	7/31/02 exp. 11/21/03	—	—	—	2000ppm	
6279	—	MS	Acrolein Acrylonitrile mix (Primary)	AAM67PEL	7/31/02 exp 10/24/02	—	—	—	10,000ppm	
6280	—	MS	8260 APP VOS #1 mix (Primary)	A0112	7/31/02 exp 6/29/03	—	—	—	2000ppm	
6281	—	MS	8260 PEL-VOA mix#1 (Primary)	PELV104	7/31/02 exp 10/22/03	—	—	—	2000ppm	
6282	—	MS	8260 (APP II) PEL-VOA mix#3 (Primary)	PELV303	7/31/02 exp. 9/25/03	—	—	—	Various	
6283	—	MS	8260 PEL-VOA mix#4 (Primary)	PELV403	7/31/02 exp. 10/18/03	—	—	—	2000ppm	
6284	—	MS	Ketones (Primary)	PELKET02	7/31/02 exp 11/31/03	—	—	—	10,000ppm	
6285	—	MS	8260 main mix (Secondary)	524MM1255	7/31/02 exp. 4/30/04	—	—	—	2000ppm	
6286	—	MS	Acrolein Acrylonitrile (Secondary)	AAM67PELB	7/31/02 exp. 10/24/02	—	—	—	10,000ppm	

VOS#	Date Prep.	By	Description	Origin/Lot #	Date Rec'd	Diluent/Lot #	Amt. for Dil.	Final Vol.	Final Conc.	Discarded
6287 ~~6286~~	–	MJS	8260 ADD-ONS #1 mix (Secondary)	AO11255	7/31/02 exp. 10/25/03 ~~6/26/03~~	–	–	–	2000 ppm	
6288	–	MJS	8260 Custom PEL mix #1 (Secondary)	PELV10455	7/31/02 exp. 10/22/03	–	–	–	2000 ppm	
6289	–	MJS	8260 Custom PEL mix #3 (API I) (Secondary)	PELU36355	7/31/02 exp 9/25/03	–	–	–	various	
6290	–	MJS	8260 Custom PEL mix #4 (Secondary)	PELU40355	7/31/02 exp 10/18/03	–	–	–	2000 ppm	
6291	–	MJS	8260 Ketones (Secondary)	PELKETO255	7/31/02 exp 11/31/03	–	–	–	10,000 ppm	
6292	8/27/02	MJS	8260 Main QC CAL	6278 6281 6282 ~~6283~~	–	Mult 8245 CE113	1.25 ml each	50 ml	50 ppm	red
6293	8/27/02	MJS	8260 CAL, UA, In MTBE, CS_2	6280	–	" "	1.25 ml	50 ml	50 ppm	white
6294	8/27/02	MJS	8260 CAL A/A + Ketones	6279 6284		" "	500 uls	50 ml	100 ppm	Blue
6295	8/23/02	MJS	8260 GASES CAL	6204D 6198C		" "	1.25 ml each	50 ml	50 ppm	Yellow
6296	8/27/02	MJS	8260 MAIN QC (Secondary)	6285, 6287 6288, 6289 6290	–	Mult 8245 CE113	1.25 ml each	50 ml	50 ppm HVA-1005	

Primary source

Secondary source

[redacted]

Secondary Source

VOS#	Date Prep.	By	Description	Origin/Lot #	Date Rec'd	Dilutent/Lot #	Amt. for Dil.	Final Vol.	Final Conc.	Discarded
6297	8/27/02	MJT	8260 GC A/A + Ketones	6286, 6291	-	MeOH B&J CE113	500ml	50ml	100 ppm	
6298	8/27/02	MJT	8260 GC GASES	6209B 6208B	-	" "	1.25ml each	50ml	50 ppm	
6299	8/27/02	JP	Ultra. Sci. Surr Std Mix	R-1594	8/27/02	—	—	—	2500 µg/mL	
6300 A-D	9/3/02	JP	Accu Std. M-REF-14-10X 1,1,2-TC-1,2,2-TFA	B1090282	8/30/02	—	—	—	2000 µg/mL	
6301 A-D	9/5/02	JP	Restek 30462 1,1,2-TC-1,2,2-TFA	A022474	9/5/02	—	—	—	2000 µg/mL	
6302	9/10/02	MJT	8260 IS	6017B	-	B&J CE441	.5ml	50ml	250 ppm	exp. 3/10/02
6303	9/10/02	MJT	8260 IS (for CIP)	6017B	-	B&J CE441	.25ml	25ml	25 ppm	exp 3/10/02
6304	9-12-02	AMH	8021 SURR	6200A 1,4 DCB 6205B 4BFB	—	MeOH CE441	1.0mL each	100mL	20 µg/mL	EXP 3-12-0
6305	9-12-02	AMH	8021 LOW SURR	6304	—	MeOH CE441	1.25mL ~~2.5 mL~~ Amit	25 mL	1 µg/mL ~~2 µg/mL~~ Amit	EXP ~~3-12~~ 3-12-0

PEL Laboratories, Inc.

Data file : \\Vms03\dd\chem\vms03.i\M3082702.b\BFB31.D
Lab Smp Id: 082702BFBA31 Client Smp ID: 082702BFBA31
Inj Date : 27-AUG-2002 05:42 MS Autotune Date: 29-OCT-2001 10:36
Operator : Inst ID: vms03.i
Smp Info : 082702BFBA31
Misc Info :
Comment :
Method : \\Vms03\dd\chem\vms03.i\M3082702.b\BFBE.m
Meth Date : 19-May-2001 13:32 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04 Sample Matrix: WATER

Concentration Formula: Amt * DF

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 74-83-9		
7.527	7.500	(0.027)	95	14228			0.00- 100.00	100.00
7.527	7.500	(0.027)	50	3518			15.00- 40.00	24.73
7.527	7.500	(0.027)	75	7545			30.00- 60.00	53.03
7.527	7.500	(0.027)	96	876			5.00- 9.00	6.16
7.527	7.500	(0.027)	173	66			0.00- 2.00	0.67
7.527	7.500	(0.027)	174	9782			50.00- 100.00	68.75
7.527	7.500	(0.027)	175	663			5.00- 9.00	6.78
7.527	7.500	(0.027)	176	9498			95.00- 101.00	97.10
7.527	7.500	(0.027)	177	662			5.00- 9.00	6.97

Data File: \\Vms03\dd\chem\vms03.i\M3082702.b\BFB31.D

Date : 27-AUG-2002 05:42

Client ID: 082702BFBA31

Instrument: vms03.i

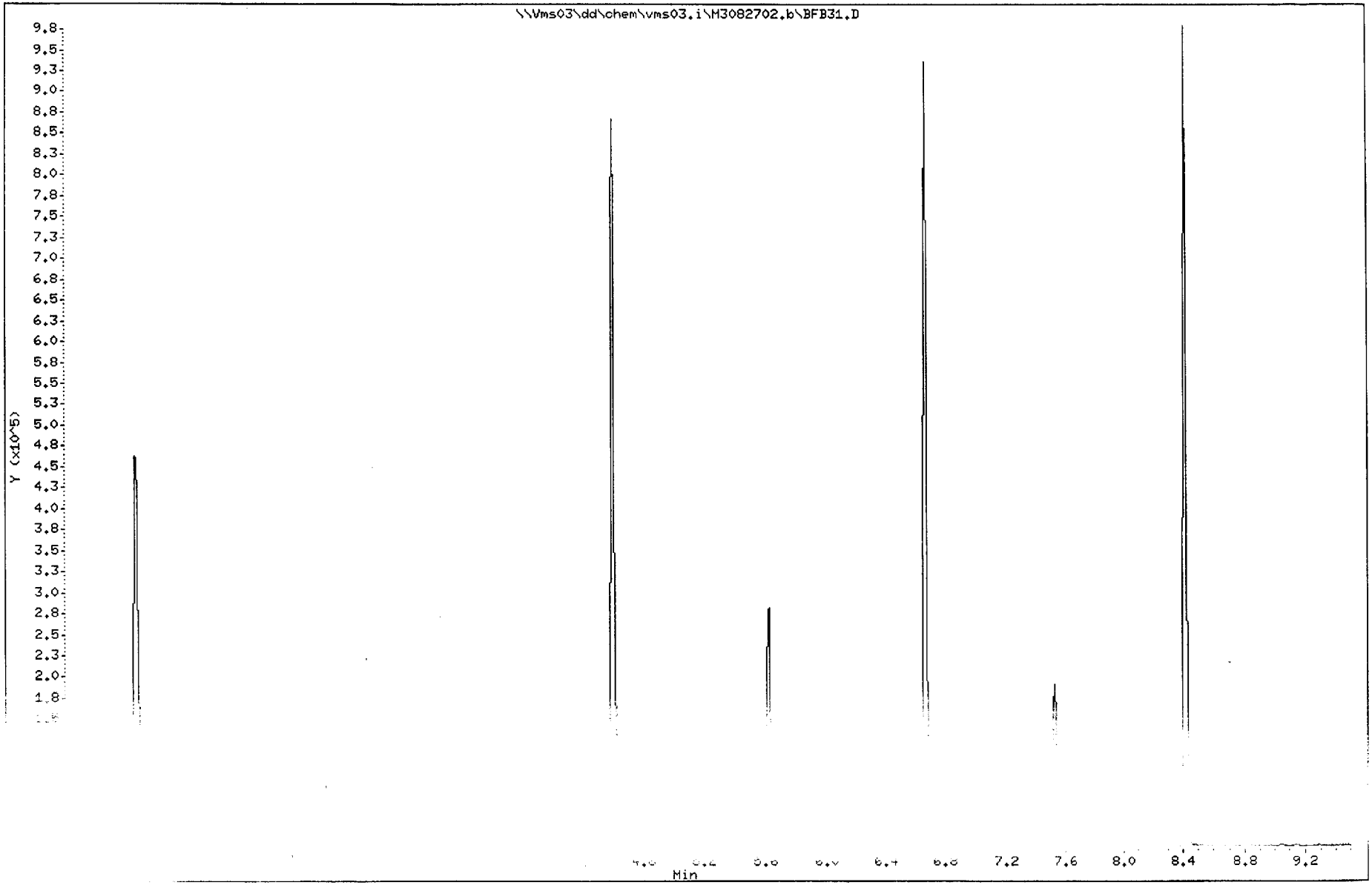
Sample Info: 082702BFBA31

Purge Volume: 5.0

Operator:

Column phase: DB-624

Column diameter: 0.18



Data File: \\Vms03\dd\chem\vms03.i\M3082702.b\BFB31.D

Date : 27-AUG-2002 05:42

Client ID: 082702BFBA31

Instrument: vms03.i

Sample Info: 082702BFBA31

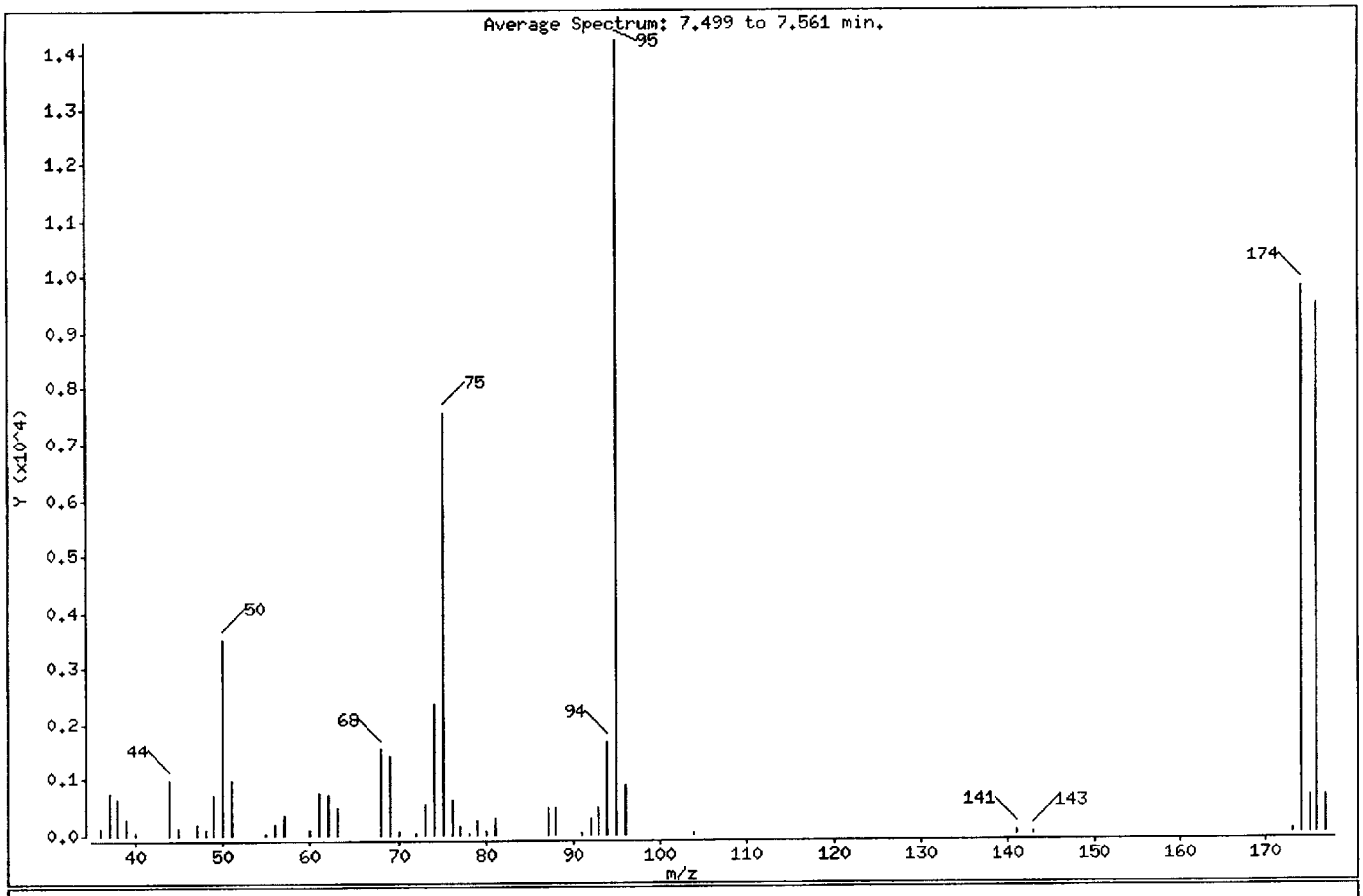
Purge Volume: 5.0

Operator:

Column phase: DB-624

Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	24.73
75	30.00 - 60.00% of mass 95	53.03
96	5.00 - 9.00% of mass 95	6.16
173	Less than 2.00% of mass 174	0.46 (0.67)
174	50.00 - 100.00% of mass 95	68.75
175	5.00 - 9.00% of mass 174	4.66 (6.78)
176	95.00 - 101.00% of mass 174	66.76 (97.10)
177	5.00 - 9.00% of mass 176	4.65 (6.97)

Data File: \\Vms03\dd\chem\vms03.i\M3082702.b\BFB31.D

Date : 27-AUG-2002 05:42

Client ID: 082702BFBA31

Instrument: vms03.i

Sample Info: 082702BFBA31

Purge Volume: 5.0

Operator:

Column phase: DB-624

Column diameter: 0.18

Data File: BFB31.D
Spectrum: Average Spectrum: 7.499 to 7.561 min.
Location of Maximum: 95.00
Number of points: 48

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	125	56.00	180	76.00	635	96.00	876
37.00	750	57.00	351	77.00	155	104.00	31
38.00	661	60.00	92	78.00	31	141.00	64
39.00	280	61.00	741	79.00	246	143.00	47
40.00	76	62.00	735	80.00	51	173.00	66
44.00	972	63.00	494	81.00	305	174.00	9782
45.00	120	68.00	1532	87.00	488	175.00	663
47.00	193	69.00	1412	88.00	479	176.00	9498
48.00	98	70.00	50	91.00	24	177.00	662
49.00	717	72.00	25	92.00	280		
50.00	3518	73.00	571	93.00	496		
51.00	980	74.00	2365	94.00	1665		
55.00	21	75.00	7545	95.00	14228		

Data File: \\Vms03\dd\chem\vms03.i\M3082702.b\1PPB.D
Report Date: 26-Sep-2002 08:18

PEL Laboratories, Inc.

Data file : \\Vms03\dd\chem\vms03.i\M3082702.b\1PPB.D
Lab Smp Id: 1PPBCAL Client Smp ID: 1PPBCAL
Inj Date : 27-AUG-2002 06:54 MS Autotune Date: 29-OCT-2001 10:36
Operator : Inst ID: vms03.i
Smp Info : 1PPBCAL
Misc Info :
Comment :
Method : \\VMS03\dd\chem\vms03.i\M3082702.b\8260A.m
Meth Date : 26-Sep-2002 08:17 lpelo Quant Type: ISTD
Cal Date : 27-AUG-2002 06:54 Cal File: 1PPB.D
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.04 Sample Matrix: WATER
Processing Host: PELCOMP01

Concentration Formula: Amt * DF * Vf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	Final Volume
Vo	5.000	Sample Volume

	RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	TARGET RANGE	RATIO
M	1 1,2-Dichloroethene (Total)						CAS #: 540-59-0		
					7554	2.00000	1.7		
M	2 Xylenes (Total)						CAS #: 1330-20-7		
					20606	3.00000	2.7		
M	3 Trihalomethanes (Total)						CAS #: THM		
					12747	1.00000	4.6		
	4 Dichlorodifluoromethane						CAS #: 75-71-8		
	1.643	1.643	(0.211)	85	5175	1.00000	0.98	70.00- 130.00	100.00(a)
	1.638	1.638	(0.210)	87	1406			0.00- 57.17	27.17
	5 Chloromethane						CAS #: 74-87-3		
	1.855	1.855	(0.238)	50	7541	1.00000	1.2	70.00- 130.00	100.00

Data File: \\Vms03\dd\chem\vms03.i\M3082702.b\1PPB.D
Report Date: 26-Sep-2002 08:18

RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	TARGET RANGE	RATIO
5 Chloromethane (continued)								
1.855	1.855	(0.238)	52	2219			0.00- 59.43	29.43
6 Vinyl Chloride						CAS #: 75-01-4		
1.980	1.980	(0.254)	62	5724	1.00000	1.2	70.00- 130.00	100.00
1.989	1.989	(0.255)	64	1936			3.82- 63.82	33.82
7 Bromomethane						CAS #: 74-83-9		
2.449	2.449	(0.314)	94	3653			70.00- 130.00	100.00(aM)
2.459	2.459	(0.315)	96	2069	1.00000	0.87	26.64- 86.64	56.64
8 Chloroethane						CAS #: 75-00-3		
2.571	2.571	(0.330)	64	2788	1.00000	0.97	70.00- 130.00	100.00(a)
2.583	2.583	(0.331)	66	479			0.00- 47.18	17.18
9 Trichlorofluoromethane						CAS #: 75-69-4		
2.852	2.852	(0.366)	101	4043	1.00000	1.0	70.00- 130.00	100.00
2.838	2.838	(0.364)	103	2887			41.41- 101.41	71.41
2.864	2.864	(0.367)	66	186			0.00- 34.60	4.60
10 Acrolein						CAS #: 107-02-8		
3.371	3.371	(0.432)	56	908	2.00000	1.6	70.00- 130.00	100.00(a)
3.358	3.358	(0.431)	55	740			51.50- 111.50	81.50
11 1,1,2 Trichlorotrifluoromethane						CAS #: 76-13-1		
3.471	3.471	(0.445)	101	2785	1.00000	0.92	70.00- 130.00	100.00(aM)
3.443	3.443	(0.442)	151	1484			23.29- 83.29	53.29
3.432	3.432	(0.440)	103	1541			25.33- 85.33	55.33
12 Acetone						CAS #: 67-64-1		
3.475	3.475	(0.446)	43	5767	2.00000	4.6	70.00- 130.00	100.00(a)
3.467	3.467	(0.445)	58	2912			20.49- 80.49	50.49
13 1,1-Dichloroethene						CAS #: 75-35-4		
3.675	3.675	(0.471)	61	5486	1.00000	0.93	70.00- 130.00	100.00(aM)
3.675	3.675	(0.471)	96	2191			9.94- 69.94	39.94
3.681	3.681	(0.472)	98	1257			0.00- 52.91	22.91
14 Acetonitrile						CAS #: 75-05-8		
3.850	3.850	(0.494)	41	5216	10.0000	10.3	70.00- 130.00	100.00(M)
3.856	3.856	(0.495)	40	6139			87.70- 147.70	117.70
3.884	3.884	(0.498)	39	2012			8.57- 68.57	38.57
15 Iodomethane						CAS #: 74-88-4		
4.128	4.128	(0.529)	142	5332	1.00000	1.00	70.00- 130.00	100.00(aM)
4.133	4.133	(0.530)	127	1790			3.57- 63.57	33.57

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RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	TARGET RANGE	RATIO
15 Iodomethane (continued)								
4.133	4.133	(0.530)	141	88			0.00- 31.65	1.65
16 Methyl Acetate						CAS #: 79-20-9		
4.202	4.202	(0.539)	43	2873	1.00000	0.91		(a)
17 Allyl Chloride						CAS #: 107-05-1		
4.206	4.206	(0.540)	41	5723	1.00000	0.98	70.00- 130.00	100.00
4.221	4.221	(0.541)	39	4062			40.98- 100.98	70.98
4.207	4.207	(0.540)	78	121			0.00- 32.11	2.11
18 Carbon Disulfide						CAS #: 75-15-0		
4.373	4.373	(0.561)	76	11510	1.00000	0.97	70.00- 130.00	100.00(a)
4.373	4.373	(0.561)	78	1032			0.00- 38.97	8.97
19 Methylene Chloride						CAS #: 75-09-2		
4.393	4.393	(0.564)	84	4160			70.00- 130.00	100.00(aM)
4.456	4.456	(0.572)	49	7320	1.00000	1.1	145.96- 205.96	175.96
4.456	4.456	(0.572)	51	1462			5.14- 65.14	35.14
20 Acrylonitrile						CAS #: 107-13-1		
4.606	4.606	(0.591)	53	2175	2.00000	1.6	70.00- 130.00	100.00(a)
4.608	4.608	(0.591)	52	1759			50.87- 110.87	80.87
4.611	4.611	(0.592)	51	195			0.00- 38.97	8.97
21 Methyl-tert-butyl ether						CAS #: 1634-04-4		
4.682	4.682	(0.601)	73	10653	1.00000	0.99	70.00- 130.00	100.00(aM)
4.688	4.688	(0.601)	57	2867			0.00- 56.91	26.91
22 trans 1,2-Dichloroethene						CAS #: 156-60-5		
4.858	4.858	(0.623)	96	2854			70.00- 130.00	100.00(a)
4.857	4.857	(0.623)	61	4673	1.00000	0.88	133.74- 193.74	163.74
4.862	4.862	(0.624)	98	1498			22.49- 82.49	52.49
23 1,1-Dichloroethane						CAS #: 75-34-3		
5.510	5.510	(0.707)	63	5850	1.00000	0.88	70.00- 130.00	100.00(a)
5.511	5.511	(0.707)	65	1683			0.00- 58.77	28.77
5.498	5.498	(0.705)	83	366			0.00- 36.26	6.26
24 Vinyl Acetate						CAS #: 108-05-4		
5.554	5.554	(0.712)	43	9335	1.00000	0.96	70.00- 130.00	100.00(a)
5.556	5.556	(0.713)	86	340			0.00- 33.64	3.64
25 Chloroprene						CAS #: 126-99-8		
5.648	5.648	(0.725)	53	3172	1.00000	0.85	70.00- 130.00	100.00
5.649	5.649	(0.725)	88	522			0.00- 46.46	16.46

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RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	TARGET RANGE	RATIO
25 Chloroprene (continued)								
5.632	5.632	(0.723)	90	92			0.00- 32.90	2.90
26 2-Butanone						CAS #: 78-93-3		
6.147	6.147	(0.789)	43	3756	2.00000	2.1	70.00- 130.00	100.00(aM)
6.153	6.153	(0.789)	72	269			0.00- 37.16	7.16
27 Propionitrile						CAS #: 107-12-0		
6.220	6.220	(0.798)	54	4789	10.0000	9.0	70.00- 130.00	100.00
6.215	6.215	(0.797)	52	430			0.00- 38.98	8.98
6.213	6.213	(0.797)	55	268			0.00- 35.60	5.60
28 2,2-Dichloropropane						CAS #: 594-20-7		
6.288	6.288	(0.807)	77	3529	1.00000	1.0	70.00- 130.00	100.00(M)
6.294	6.294	(0.807)	79	709			0.00- 50.09	20.09
6.284	6.284	(0.806)	97	0			0.00- 30.00	0.00
29 cis-1,2-Dichloroethene						CAS #: 156-59-2		
6.341	6.341	(0.813)	96	2881	1.00000	0.86	70.00- 130.00	100.00(a)
6.342	6.342	(0.814)	61	5315			154.48- 214.48	184.48
6.339	6.339	(0.813)	98	1321			15.85- 75.85	45.85
30 Methyacrylonitrile						CAS #: 126-98-7		
6.470	6.470	(0.830)	67	12300	10.0000	9.4	70.00- 130.00	100.00
6.475	6.475	(0.831)	66	4537			6.89- 66.89	36.89
6.472	6.472	(0.830)	52	5839			17.47- 77.47	47.47
31 Isobutyl Alcohol						CAS #: 78-83-1		
6.560	6.560	(0.842)	43	2912	20.0000	17.7	70.00- 130.00	100.00(aM)
6.566	6.566	(0.842)	42	1891			34.94- 94.94	64.94
6.566	6.566	(0.842)	41	3330			84.35- 144.35	114.35
32 Chloroform						CAS #: 67-66-3		
6.542	6.542	(0.839)	83	5538	1.00000	0.91	70.00- 130.00	100.00(a)
6.539	6.539	(0.839)	85	1989			5.92- 65.92	35.92
6.548	6.548	(0.840)	47	1567			0.00- 58.30	28.30
33 Bromochloromethane						CAS #: 74-97-5		
6.741	6.741	(0.865)	128	1073	1.00000	0.73	70.00- 130.00	100.00(a)
6.738	6.738	(0.864)	49	3328			280.16- 340.16	310.16
6.748	6.748	(0.866)	130	1726			130.86- 190.86	160.86
35 1,1,1-Trichloroethane						CAS #: 71-55-6		
7.051	7.051	(0.905)	97	4209	1.00000	0.86	70.00- 130.00	100.00(a)
7.046	7.046	(0.904)	99	2499			29.37- 89.37	59.37
7.035	7.035	(0.902)	117	89			0.00- 32.11	2.11

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RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	TARGET RANGE	RATIO
36 Cyclohexane						CAS #: 110-82-7		
7.063	7.063	(0.906)	56	6478	1.00000	0.86	70.00- 130.00	100.00(a)
7.058	7.058	(0.905)	84	4325			36.76- 96.76	66.76
7.062	7.062	(0.906)	41	4440			38.54- 98.54	68.54
37 1,1-Dichloropropene						CAS #: 563-58-6		
7.237	7.237	(0.928)	75	4420	1.00000	0.96	70.00- 130.00	100.00(a)
7.236	7.236	(0.928)	77	1056			0.00- 53.89	23.89
7.234	7.234	(0.928)	110	1023			0.00- 53.14	23.14
38 Carbon tetrachloride						CAS #: 56-23-5		
7.341	7.341	(0.942)	117	3430	1.00000	0.87	70.00- 130.00	100.00(a)
7.346	7.346	(0.942)	119	3035			58.48- 118.48	88.48
7.348	7.348	(0.943)	121	966			0.00- 58.16	28.16
40 1,2-Dichloroethane						CAS #: 107-06-2		
7.531	7.531	(0.966)	62	4731	1.00000	0.84	70.00- 130.00	100.00(a)
7.528	7.528	(0.966)	64	1543			2.61- 62.61	32.61
7.527	7.527	(0.966)	98	136			0.00- 32.87	2.87
41 Benzene						CAS #: 71-43-2		
7.543	7.543	(0.968)	78	12531	1.00000	0.93	70.00- 130.00	100.00(a)
7.540	7.540	(0.967)	52	2589			0.00- 50.66	20.66
7.547	7.547	(0.968)	77	2987			0.00- 53.84	23.84
* 42 FLUOROBENZENE (IS)						CAS #: 462-06-6		
7.795	7.795	(1.000)	96	564283	50.0000		70.00- 130.00	100.00
7.795	7.795	(1.000)	70	121415			0.00- 51.52	21.52
7.796	7.796	(1.000)	50	83431			0.00- 44.79	14.79
43 Trichloroethylene						CAS #: 79-01-6		
8.241	8.241	(1.057)	130	2781	1.00000	0.91	70.00- 130.00	100.00(a)
8.241	8.241	(1.057)	95	3349			90.42- 150.42	120.42
8.239	8.239	(1.057)	97	1910			38.68- 98.68	68.68
44 Methyl Cyclohexane						CAS #: 108-87-2		
8.318	8.318	(1.067)	83	5409			70.00- 130.00	100.00(a)
8.315	8.315	(1.067)	55	5522	1.00000	0.94	72.09- 132.09	102.09
8.314	8.314	(1.067)	41	2630			18.62- 78.62	48.62
45 1,2-Dichloropropane						CAS #: 78-87-5		
8.439	8.439	(1.083)	63	3326	1.00000	0.86	70.00- 130.00	100.00(a)
8.434	8.434	(1.082)	62	2672			50.34- 110.34	80.34
8.433	8.433	(1.082)	76	1492			14.86- 74.86	44.86
46 Methyl Methacrylate						CAS #: 80-62-6		
8.526	8.526	(1.094)	69	1794	1.00000	0.79	70.00- 130.00	100.00

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RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	TARGET RANGE	RATIO
46 Methyl Methacrylate (continued)								
8.526	8.526	(1.094)	41	3035			139.18- 199.18	169.18
47 Bromodichloromethane						CAS #: 75-27-4		
8.681	8.681	(1.114)	83	4051	1.00000	0.88	70.00- 130.00	100.00(a)
8.687	8.687	(1.114)	85	2330			27.52- 87.52	57.52
49 Dibromomethane						CAS #: 74-95-3		
8.736	8.736	(1.121)	93	1490	1.00000	0.76	70.00- 130.00	100.00(a)
8.738	8.738	(1.121)	95	1554			74.30- 134.30	104.30
8.740	8.740	(1.121)	174	1821			92.21- 152.21	122.21
50 4-Methyl-2-Pentanone						CAS #: 108-10-1		
9.074	9.074	(1.164)	43	6928			70.00- 130.00	100.00(a)
9.072	9.072	(1.164)	58	2026	2.00000	1.6	0.00- 59.24	29.24
9.075	9.075	(1.164)	100	530			0.00- 37.65	7.65
51 2-Hexanone						CAS #: 591-78-6		
9.974	9.974	(0.900)	43	4270	2.00000	1.7	70.00- 130.00	100.00(a)
9.974	9.974	(0.900)	58	2041			17.80- 77.80	47.80
52 cis 1,3-Dichloropropene						CAS #: 10061-01-5		
9.271	9.271	(1.189)	75	4494	1.00000	0.85	70.00- 130.00	100.00(a)
9.278	9.278	(1.190)	77	1635			6.38- 66.38	36.38
9.265	9.265	(1.188)	110	893			0.00- 49.87	19.87
54 Toluene						CAS #: 108-88-3		
9.611	9.611	(1.233)	92	7114	1.00000	0.90	70.00- 130.00	100.00(a)
9.608	9.608	(1.232)	91	11751			135.18- 195.18	165.18
9.604	9.604	(1.232)	65	1527			0.00- 51.46	21.46
55 trans 1,3-Dichloropropene						CAS #: 10061-02-6		
9.795	9.795	(1.256)	75	3596	1.00000	0.74	70.00- 130.00	100.00(a)
9.794	9.794	(1.256)	77	1085			0.17- 60.17	30.17
9.793	9.793	(1.256)	110	780			0.00- 51.69	21.69
56 Ethyl Methacrylate						CAS #: 97-63-2		
9.796	9.796	(1.257)	69	3276	1.00000	0.79	70.00- 130.00	100.00(a)
9.795	9.795	(1.256)	99	281			0.00- 38.58	8.58
57 1,1,2-Trichloroethane						CAS #: 79-00-5		
9.950	9.950	(1.276)	97	2553	1.00000	0.91	70.00- 130.00	100.00(a)
9.952	9.952	(1.277)	83	2297			59.97- 119.97	89.97
9.959	9.959	(1.278)	85	1594			32.44- 92.44	62.44
58 1,3-Dichloropropane						CAS #: 142-28-9		
10.215	10.215	(0.922)	76	4720	1.00000	0.89	70.00- 130.00	100.00(a)

Data File: \\Vms03\dd\chem\vms03.i\M3082702.b\1PPB.D
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RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	TARGET RANGE	RATIO
58 1,3-Dichloropropane (continued)								
10.210	10.210	(0.922)	78	1469			1.12- 61.12	31.12
10.216	10.216	(0.922)	63	294			0.00- 36.23	6.23
59 Tetrachloroethylene						CAS #: 127-18-4		
10.287	10.287	(0.929)	164	2104	1.00000	0.88	70.00- 130.00	100.00(a)
10.283	10.283	(0.928)	129	1914			60.97- 120.97	90.97
10.286	10.286	(0.929)	166	2655			96.19- 156.19	126.19
60 Dibromochloromethane						CAS #: 124-48-1		
10.476	10.476	(0.946)	129	2066	1.00000	0.76	70.00- 130.00	100.00(a)
10.481	10.481	(0.946)	127	1743			54.37- 114.37	84.37
61 1,2-Dibromoethane						CAS #: 106-93-4		
10.689	10.689	(0.965)	107	2578	1.00000	0.95	70.00- 130.00	100.00(a)
10.687	10.687	(0.965)	109	2319			59.95- 119.95	89.95
62 1-Chlorohexane						CAS #: 544-10-5		
10.856	10.856	(0.980)	91	3434	1.00000	0.83	70.00- 130.00	100.00(a)
10.857	10.857	(0.980)	55	3086			59.87- 119.87	89.87
10.858	10.858	(0.980)	56	1828			23.23- 83.23	53.23
* 63 CHLOROBENZENE d5 (IS)						CAS #: 3114-55-4		
11.077	11.077	(1.000)	117	403495	50.0000		70.00- 130.00	100.00
11.077	11.077	(1.000)	119	127912			1.70- 61.70	31.70
11.076	11.076	(1.000)	82	252786			32.65- 92.65	62.65
64 Chlorobenzene						CAS #: 108-90-7		
11.116	11.116	(1.004)	112	7276	1.00000	0.88	70.00- 130.00	100.00(a)
11.117	11.117	(1.004)	114	2291			1.49- 61.49	31.49
11.114	11.114	(1.003)	77	5680			48.06- 108.06	78.06
65 1,1,1,2-Tetrachloroethane						CAS #: 630-20-6		
11.158	11.158	(1.007)	131	2055	1.00000	0.78	70.00- 130.00	100.00(a)
11.157	11.157	(1.007)	117	2718			102.26- 162.26	132.26
11.159	11.159	(1.007)	95	874			12.53- 72.53	42.53
66 Ethylbenzene						CAS #: 100-41-4		
11.172	11.172	(1.009)	106	3846	1.00000	0.86	70.00- 130.00	100.00(a)
11.170	11.170	(1.008)	91	13551			322.34- 382.34	352.34
11.160	11.160	(1.007)	77	1282			3.33- 63.33	33.33
67 p,m-Xylene						CAS #: 511-39-00		
11.246	11.246	(1.015)	106	9693	2.00000	1.8	70.00- 130.00	100.00(a)
11.249	11.249	(1.016)	91	22293			199.99- 259.99	229.99
11.252	11.252	(1.016)	105	5477			26.50- 86.50	56.50

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RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	TARGET RANGE	RATIO
68 o-Xylene						CAS #: 95-47-6		
11.689	11.689	(1.055)	91	10913	1.00000	0.91	70.00- 130.00	100.00(a)
11.687	11.687	(1.055)	106	4617			12.31- 72.31	42.31
11.697	11.697	(1.056)	77	1615			0.00- 44.80	14.80
69 Styrene						CAS #: 100-42-5		
11.722	11.722	(1.058)	104	7614	1.00000	0.82	70.00- 130.00	100.00(a)
11.722	11.722	(1.058)	103	4374			27.45- 87.45	57.45
11.720	11.720	(1.058)	78	4390			27.66- 87.66	57.66
70 Bromoform						CAS #: 75-25-2		
12.070	12.070	(1.090)	173	1092	1.00000	2.1	70.00- 130.00	100.00
12.061	12.061	(1.089)	175	309			0.00- 58.30	28.30
71 1-Methylethylbenzene						CAS #: 98-82-8		
12.051	12.051	(0.893)	105	12047	1.00000	0.88	70.00- 130.00	100.00(a)
12.054	12.054	(0.893)	120	3251			0.00- 56.99	26.99
12.054	12.054	(0.893)	77	2070			0.00- 47.18	17.18
72 1,4-Dichloro-2-Butene						CAS #: 110-57-6		
12.090	12.090	(0.895)	53	413	2.00000	4.0	70.00- 130.00	100.00
12.087	12.087	(0.895)	75	110			0.00- 56.63	26.63
12.429	12.429	(0.920)	89	189			15.76- 75.76	45.76
73 1,1,2,2-Tetrachloroethane						CAS #: 79-34-5		
12.217	12.217	(0.905)	83	3259	1.00000	0.92	70.00- 130.00	100.00(aM)
12.211	12.211	(0.904)	85	2362			42.48- 102.48	72.48
12.213	12.213	(0.905)	133	0			0.00- 30.00	0.00
75 1,2,3- trichloropropane						CAS #: 96-18-4		
12.365	12.365	(0.916)	75	2836			70.00- 130.00	100.00
12.361	12.361	(0.915)	77	1140			10.20- 70.20	40.20
12.366	12.366	(0.916)	110	1079	1.00000	1.0	8.05- 68.05	38.05
76 n-Propylbenzene						CAS #: 103-65-1		
12.458	12.458	(0.923)	91	14865	1.00000	0.87	70.00- 130.00	100.00(a)
12.451	12.451	(0.922)	92	1368			0.00- 39.20	9.20
12.457	12.457	(0.923)	120	2975			0.00- 50.01	20.01
77 Bromobenzene						CAS #: 108-86-1		
12.502	12.502	(0.926)	77	5958	1.00000	0.90	70.00- 130.00	100.00(a)
12.506	12.506	(0.926)	156	2781			16.68- 76.68	46.68
12.504	12.504	(0.926)	158	3200			23.71- 83.71	53.71
78 1,3,5-Trimethylbenzene						CAS #: 108-67-8		
12.613	12.613	(0.934)	105	10538	1.00000	0.88	70.00- 130.00	100.00(a)

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RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	TARGET RANGE	RATIO
78 1,3,5-Trimethylbenzene (continued)								
12.615	12.615	(0.934)	120	4958			17.05- 77.05	47.05
12.613	12.613	(0.934)	77	1506			0.00- 44.29	14.29
79 2-Chlorotoluene						CAS #: 95-49-8		
12.638	12.638	(0.936)	91	11239	1.00000	0.93	70.00- 130.00	100.00(a)
12.638	12.638	(0.936)	126	3355			0.00- 59.85	29.85
12.634	12.634	(0.936)	63	2083			0.00- 48.53	18.53
80 4-Chlorotoluene						CAS #: 106-43-4		
12.684	12.684	(0.939)	91	10456	1.00000	0.92	70.00- 130.00	100.00(a)
12.682	12.682	(0.939)	126	2878			0.00- 57.52	27.52
12.684	12.684	(0.939)	63	1369			0.00- 43.09	13.09
81 tert-Butylbenzene						CAS #: 98-06-6		
12.977	12.977	(0.961)	119	9446	1.00000	0.85	70.00- 130.00	100.00(a)
12.980	12.980	(0.961)	91	7469			49.07- 109.07	79.07
12.977	12.977	(0.961)	134	1818			0.00- 49.25	19.25
82 1,2,4-trimethylbenzene						CAS #: 95-63-6		
13.013	13.013	(0.964)	105	10136	1.00000	0.86	70.00- 130.00	100.00(a)
13.012	13.012	(0.964)	120	4293			12.35- 72.35	42.35
13.012	13.012	(0.964)	77	1319			0.00- 43.01	13.01
83 sec-Butylbenzene						CAS #: 135-98-8		
13.194	13.194	(0.977)	105	12659	1.00000	0.88	70.00- 130.00	100.00(a)
13.194	13.194	(0.977)	134	1938			0.00- 45.31	15.31
13.192	13.192	(0.977)	91	2165			0.00- 47.10	17.10
84 p-Isopropyltoluene						CAS #: 99-87-6		
13.330	13.330	(0.987)	119	10540	1.00000	0.86	70.00- 130.00	100.00(a)
13.332	13.332	(0.987)	134	2313			0.00- 51.94	21.94
13.327	13.327	(0.987)	91	2248			0.00- 51.33	21.33
85 1,3-Dichlorobenzene						CAS #: 541-73-1		
13.430	13.430	(0.995)	146	6204	1.00000	0.95	70.00- 130.00	100.00(a)
13.426	13.426	(0.994)	148	4090			35.93- 95.93	65.93
13.428	13.428	(0.994)	111	2890			16.58- 76.58	46.58
* 86 1,4-DICHLOROBENZENE-d4 (IS)						CAS #: 3855-82-1		
13.503	13.503	(1.000)	152	211777	50.0000		70.00- 130.00	100.00
13.503	13.503	(1.000)	150	334250			127.83- 187.83	157.83
13.503	13.503	(1.000)	115	135686			34.07- 94.07	64.07
87 1,4-Dichlorobenzene						CAS #: 106-46-7		
13.536	13.536	(1.002)	146	6364	1.00000	0.95	70.00- 130.00	100.00(a)

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RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	TARGET RANGE	RATIO
87 1,4-Dichlorobenzene (continued)								
13.536	13.536	(1.002)	148	4933			47.51- 107.51	77.51
13.536	13.536	(1.002)	111	2949			16.34- 76.34	46.34
88 Benzyl Chloride						CAS #: 100-44-7		
13.646	13.646	(1.011)	91	3826	1.00000	2.6	70.00- 130.00	100.00
13.645	13.645	(1.011)	65	334			0.00- 38.73	8.73
89 n-Butylbenzene						CAS #: 104-51-8		
13.744	13.744	(1.018)	91	10198	1.00000	0.92	70.00- 130.00	100.00(a)
13.747	13.747	(1.018)	92	5539			24.31- 84.31	54.31
13.744	13.744	(1.018)	134	2102			0.00- 50.61	20.61
90 1,2-Dichlorobenzene						CAS #: 95-50-1		
13.913	13.913	(1.030)	146	5716	1.00000	0.93	70.00- 130.00	100.00(a)
13.913	13.913	(1.030)	148	3781			36.15- 96.15	66.15
13.913	13.913	(1.030)	111	2443			12.74- 72.74	42.74
91 1,2-dibromo-3-chloropropane						CAS #: 96-12-8		
14.597	14.597	(1.081)	75	538	1.00000	1.9	70.00- 130.00	100.00
14.601	14.601	(1.081)	155	204			7.92- 67.92	37.92
14.602	14.602	(1.081)	157	500			62.94- 122.94	92.94
92 1,2,4-Trichlorobenzene						CAS #: 120-82-1		
15.252	15.252	(1.130)	180	3544	1.00000	0.82	70.00- 130.00	100.00(a)
15.251	15.251	(1.129)	182	3724			75.08- 135.08	105.08
15.252	15.252	(1.130)	145	1180			3.30- 63.30	33.30
93 Hexachlorobutadiene						CAS #: 87-68-3		
15.347	15.347	(1.137)	225	1643			70.00- 130.00	100.00(a)
15.352	15.352	(1.137)	223	730	1.00000	0.76	14.43- 74.43	44.43
15.351	15.351	(1.137)	227	1082			35.86- 95.86	65.86
94 Naphthalene						CAS #: 91-20-3		
15.435	15.435	(1.143)	128	8871	1.00000	0.90	70.00- 130.00	100.00(a)
15.431	15.431	(1.143)	127	1007			0.00- 41.35	11.35
15.436	15.436	(1.143)	129	741			0.00- 38.35	8.35
95 1,2,3-trichlorobenzene						CAS #: 87-61-6		
15.601	15.601	(1.155)	180	3214	1.00000	0.83	70.00- 130.00	100.00(a)
15.603	15.603	(1.156)	182	3837			89.38- 149.38	119.38
15.601	15.601	(1.155)	145	1115			4.69- 64.69	34.69

Data File: \\Vms03\dd\chem\vms03.i\M3082702.b\1PPB.D
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QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

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PEL Laboratories, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vms03.i
Lab File ID: 1PPB.D
Lab Smp Id: 1PPBCAL
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\VMS03\dd\chem\vms03.i\M3082702.b\8260A.m
Misc Info:

Calibration Date: 27-AUG-2002
Calibration Time: 08:53
Client Smp ID: 1PPBCAL
Level: LOW
Sample Type: WATER

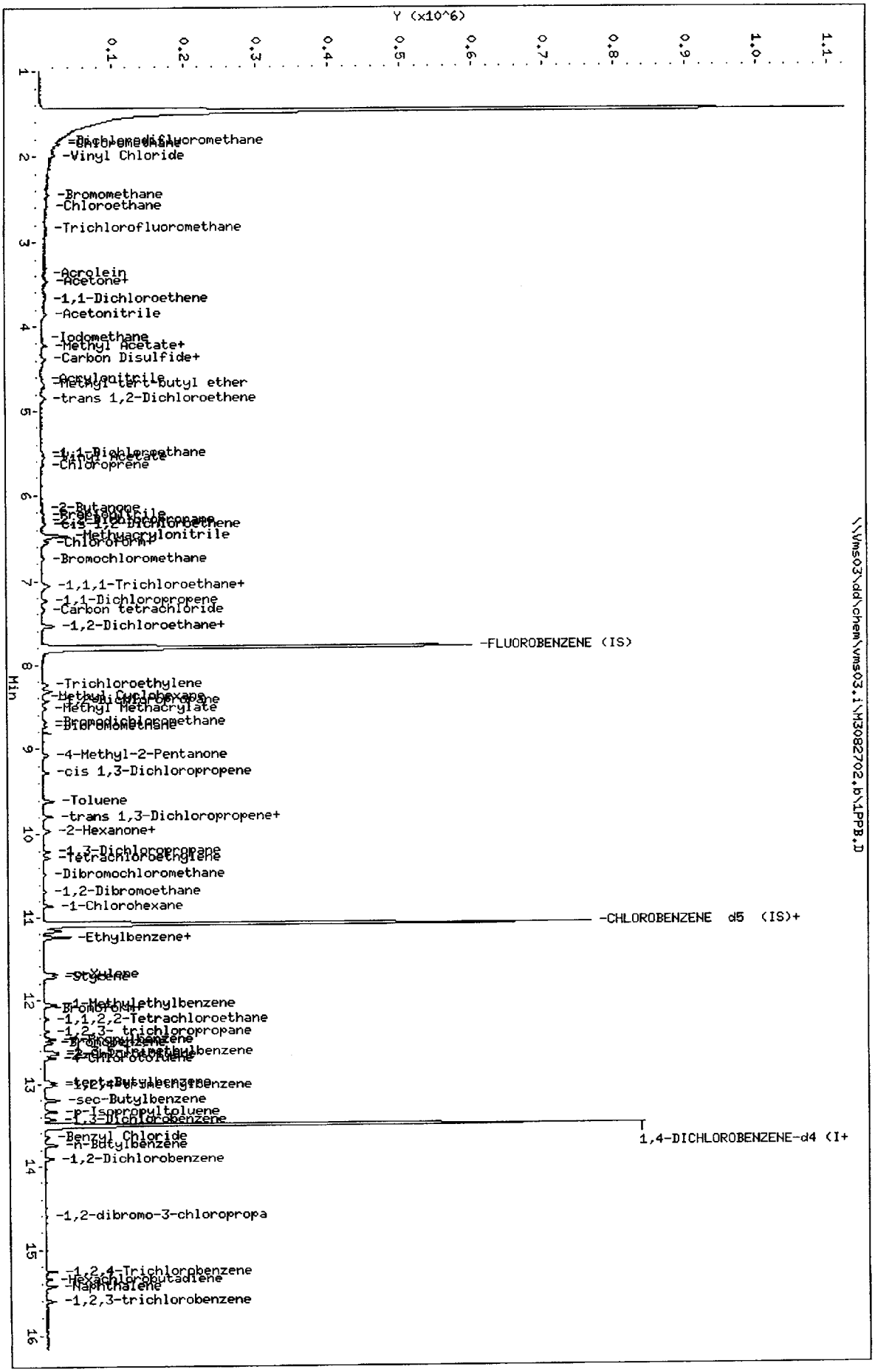
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
42 FLUOROBENZENE (IS	574299	287150	1148598	564283	-1.74
63 CHLOROBENZENE d5	414562	207281	829124	403495	-2.67
86 1,4-DICHLOROBENZE	223111	111556	446222	211777	-5.08

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
42 FLUOROBENZENE (IS	7.80	7.30	8.30	7.80	-0.05
63 CHLOROBENZENE d5	11.08	10.58	11.58	11.08	-0.01
86 1,4-DICHLOROBENZE	13.50	13.00	14.00	13.50	-0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\Vms03\dd\chem\vms03.i\M3082702.b\1PPB.D
Date : 27-AUG-2002 06:54
Client ID: 1PPBCAL
Sample Info: 1PPBCAL
Purge Volume: 5.0
Column phase: DB-624

Instrument: vms03.i
Operator:
Column diameter: 0.18



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Rep 26-Sep-2002 08:18

PEL Laboratories, Inc.

Data \Vms03\dd\chem\vms03.i\M3082702.b\2PPB.D
Lab PPBCAL — Client Smp ID: 2PPBCAL
Inj 7-AUG-2002 07:18 — MS Autotune Date: 29-OCT-2001 10:36
Oper — Inst ID: vms03.i
Smp 2PPBCAL
Misc
Com
Meth \VMS03\dd\chem\vms03.i\M3082702.b\8260A.m
Meth 26-Sep-2002 08:18 lpelo — Quant Type: ISTD
Cal 27-AUG-2002 06:54 — Cal File: 1PPB.D
Als 3 — Calibration Sample, Level: 2
Dil 1.00000
Integ HP Genie — Compound Sublist: all.sub
Target on: 4.04 — Sample Matrix: WATER
Proce st: PELCOMP01

Conce Formula: Amt * DF * Vf/Vo

	Value	Description
	1.000	Dilution Factor
	5.000	Final Volume
	5.000	Sample Volume

RT	E		MASS	RESPONSE	AMOUNTS CAL-AMT (ug/1)	ON-COL (ug/1)	TARGET RANGE	RATIO
M 1 1,2-		ene (Total)				CAS #: 540-59-0		
				18069	4.00000	4.1		
M 2 Xyle						CAS #: 1330-20-7		
				46232	6.00000	6.1		
M 3 Triha		(Total)				CAS #: THM		
				30052	2.00000	9.2		
4 Dichl		methane				CAS #: 75-71-8		
1.641	1.	)	85	9448	2.00000	1.8	70.00- 130.00	100.00
1.636	1.	)	87	2818			0.00- 59.83	29.83
5 Chloro						CAS #: 74-87-3		
1.859	1.8	238)	50	13066	2.00000	2.0	70.00- 130.00	100.00

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RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	TARGET RANGE	RATIO
5 Chloromethane (continued)								
1.861	1.861	(0.239)	52	4211			2.23- 62.23	32.23
6 Vinyl Chloride						CAS #: 75-01-4		
1.980	1.980	(0.254)	62	10063	2.00000	2.2	70.00- 130.00	100.00
1.976	1.976	(0.253)	64	3631			6.08- 66.08	36.08
7 Bromomethane						CAS #: 74-83-9		
2.460	2.460	(0.316)	94	8053			70.00- 130.00	100.00
2.459	2.459	(0.315)	96	5211	2.00000	2.2	34.71- 94.71	64.71
8 Chloroethane						CAS #: 75-00-3		
2.572	2.572	(0.330)	64	5676	2.00000	2.0	70.00- 130.00	100.00
2.570	2.570	(0.330)	66	2416			12.57- 72.57	42.57
9 Trichlorofluoromethane						CAS #: 75-69-4		
2.850	2.850	(0.366)	101	7732	2.00000	2.0	70.00- 130.00	100.00
2.841	2.841	(0.364)	103	4820			32.34- 92.34	62.34
2.872	2.872	(0.368)	66	1715			0.00- 52.18	22.18
10 Acrolein						CAS #: 107-02-8		
3.376	3.376	(0.433)	56	2323	4.00000	4.2	70.00- 130.00	100.00(a)
3.386	3.386	(0.434)	55	1716			43.87- 103.87	73.87
11 1,1,2 Trichlorotrifluoromethane						CAS #: 76-13-1		
3.464	3.464	(0.444)	101	5327	2.00000	1.8	70.00- 130.00	100.00(a)
3.462	3.462	(0.444)	151	3121			28.59- 88.59	58.59
3.467	3.467	(0.445)	103	2629			19.35- 79.35	49.35
12 Acetone						CAS #: 67-64-1		
3.469	3.469	(0.445)	43	10030	4.00000	8.1	70.00- 130.00	100.00(a)
3.480	3.480	(0.446)	58	3972			9.60- 69.60	39.60
13 1,1-Dichloroethene						CAS #: 75-35-4		
3.672	3.672	(0.471)	61	12763	2.00000	2.2	70.00- 130.00	100.00(M)
3.668	3.668	(0.470)	96	5884			16.10- 76.10	46.10
3.676	3.676	(0.471)	98	3653			0.00- 58.62	28.62
14 Acetonitrile						CAS #: 75-05-8		
3.856	3.856	(0.495)	41	10197	20.0000	20.2	70.00- 130.00	100.00
3.862	3.862	(0.495)	40	5195			20.95- 80.95	50.95
3.878	3.878	(0.497)	39	3109			0.49- 60.49	30.49
15 Iodomethane						CAS #: 74-88-4		
4.130	4.130	(0.530)	142	10409	2.00000	2.0	70.00- 130.00	100.00(M)
4.149	4.149	(0.532)	127	3716			5.70- 65.70	35.70

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RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	TARGET RANGE	RATIO
15 Iodomethane (continued)								
4.134	4.134	(0.530)	141	613			0.00- 35.89	5.89
16 Methyl Acetate						CAS #: 79-20-9		
4.203	4.203	(0.539)	43	6214	2.00000	2.0		(a)
17 Allyl Chloride						CAS #: 107-05-1		
4.224	4.224	(0.542)	41	12709	2.00000	2.2	70.00- 130.00	100.00
4.227	4.227	(0.542)	39	7821			31.54- 91.54	61.54
4.215	4.215	(0.541)	78	728			0.00- 35.73	5.73
18 Carbon Disulfide						CAS #: 75-15-0		
4.390	4.390	(0.563)	76	24733	2.00000	2.1	70.00- 130.00	100.00
4.383	4.383	(0.562)	78	2036			0.00- 38.23	8.23
19 Methylene Chloride						CAS #: 75-09-2		
4.458	4.458	(0.572)	84	7876			70.00- 130.00	100.00(M)
4.458	4.458	(0.572)	49	13684	2.00000	2.1	143.74- 203.74	173.74
4.457	4.457	(0.572)	51	2605			3.08- 63.08	33.08
20 Acrylonitrile						CAS #: 107-13-1		
4.609	4.609	(0.591)	53	5768	4.00000	4.1	70.00- 130.00	100.00
4.616	4.616	(0.592)	52	4838			53.88- 113.88	83.88
4.605	4.605	(0.591)	51	2250			9.01- 69.01	39.01
21 Methyl-tert-butyl ether						CAS #: 1634-04-4		
4.688	4.688	(0.601)	73	21768	2.00000	2.0	70.00- 130.00	100.00
4.687	4.687	(0.601)	57	4636			0.00- 51.30	21.30
22 trans 1,2-Dichloroethene						CAS #: 156-60-5		
4.866	4.866	(0.624)	96	6427			70.00- 130.00	100.00
4.858	4.858	(0.623)	61	11473	2.00000	2.2	148.51- 208.51	178.51
4.863	4.863	(0.624)	98	4245			36.05- 96.05	66.05
23 1,1-Dichloroethane						CAS #: 75-34-3		
5.503	5.503	(0.706)	63	13388	2.00000	2.0	70.00- 130.00	100.00
5.503	5.503	(0.706)	65	4287			2.02- 62.02	32.02
5.513	5.513	(0.707)	83	1146			0.00- 38.56	8.56
24 Vinyl Acetate						CAS #: 108-05-4		
5.557	5.557	(0.713)	43	18137	2.00000	1.9	70.00- 130.00	100.00
5.551	5.551	(0.712)	86	1042			0.00- 35.75	5.75
25 Chloroprene						CAS #: 126-99-8		
5.636	5.636	(0.723)	53	7275	2.00000	2.0	70.00- 130.00	100.00
5.639	5.639	(0.723)	88	2203			0.28- 60.28	30.28

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RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	TARGET RANGE	RATIO
25 Chloroprene (continued)								
5.632	5.632	(0.722)	90	910			0.00- 42.51	12.51
26 2-Butanone						CAS #: 78-93-3		
6.144	6.144	(0.788)	43	8152	4.00000	4.6	70.00- 130.00	100.00(a)
6.144	6.144	(0.788)	72	1049			0.00- 42.87	12.87
27 Propionitrile						CAS #: 107-12-0		
6.220	6.220	(0.798)	54	9951	20.0000	18.8	70.00- 130.00	100.00
6.217	6.217	(0.797)	52	2164			0.00- 51.75	21.75
6.225	6.225	(0.798)	55	1692			0.00- 47.00	17.00
28 2,2-Dichloropropane						CAS #: 594-20-7		
6.294	6.294	(0.807)	77	7445	2.00000	2.2	70.00- 130.00	100.00
6.291	6.291	(0.807)	79	2117			0.00- 58.44	28.44
6.291	6.291	(0.807)	97	668			0.00- 38.97	8.97
29 cis-1,2-Dichloroethene						CAS #: 156-59-2		
6.343	6.343	(0.813)	96	6596	2.00000	2.0	70.00- 130.00	100.00
6.342	6.342	(0.813)	61	12132			153.93- 213.93	183.93
6.343	6.343	(0.813)	98	4336			35.74- 95.74	65.74
30 Methyacrylonitrile						CAS #: 126-98-7		
6.476	6.476	(0.831)	67	26032	20.0000	20.1	70.00- 130.00	100.00
6.481	6.481	(0.831)	66	9302			5.73- 65.73	35.73
6.471	6.471	(0.830)	52	13150			20.51- 80.51	50.51
31 Isobutyl Alcohol						CAS #: 78-83-1		
6.555	6.555	(0.841)	43	5651	40.0000	34.6	70.00- 130.00	100.00
6.552	6.552	(0.840)	42	3876			38.59- 98.59	68.59
6.552	6.552	(0.840)	41	5940			75.11- 135.11	105.11
32 Chloroform						CAS #: 67-66-3		
6.553	6.553	(0.840)	83	12604	2.00000	2.1	70.00- 130.00	100.00
6.549	6.549	(0.840)	85	8457			37.10- 97.10	67.10
6.546	6.546	(0.839)	47	4210			3.40- 63.40	33.40
33 Bromochloromethane						CAS #: 74-97-5		
6.746	6.746	(0.865)	128	3317	2.00000	2.3	70.00- 130.00	100.00
6.740	6.740	(0.864)	49	8035			212.24- 272.24	242.24
6.744	6.744	(0.865)	130	3715			82.00- 142.00	112.00
$ 34 DIBROMOFLUOROMETHANE (surr)						CAS #: 1868-53-7		
6.819	6.819	(0.874)	113	6769	2.50000	2.4	70.00- 130.00	100.00
6.822	6.822	(0.875)	111	6575			67.13- 127.13	97.13
6.821	6.821	(0.875)	192	1034			0.00- 45.28	15.28

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RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	TARGET RANGE	RATIO
35 1,1,1-Trichloroethane						CAS #: 71-55-6		
7.049	7.049	(0.904)	97	9776	2.00000	2.0	70.00- 130.00	100.00
7.049	7.049	(0.904)	99	4512			16.15- 76.15	46.15
7.049	7.049	(0.904)	117	728			0.00- 37.45	7.45
36 Cyclohexane						CAS #: 110-82-7		
7.067	7.067	(0.906)	56	15658	2.00000	2.1	70.00- 130.00	100.00(a)
7.067	7.067	(0.906)	84	10581			37.58- 97.58	67.58
7.067	7.067	(0.906)	41	9280			29.27- 89.27	59.27
37 1,1-Dichloropropene						CAS #: 563-58-6		
7.241	7.241	(0.929)	75	9254	2.00000	2.0	70.00- 130.00	100.00
7.237	7.237	(0.928)	77	3046			2.92- 62.92	32.92
7.243	7.243	(0.929)	110	2645			0.00- 58.58	28.58
38 Carbon tetrachloride						CAS #: 56-23-5		
7.345	7.345	(0.942)	117	8458	2.00000	2.2	70.00- 130.00	100.00
7.345	7.345	(0.942)	119	7084			53.76- 113.76	83.76
7.344	7.344	(0.942)	121	2307			0.00- 57.28	27.28
$ 39 1,2-DICHLOROETHANE d4 (surr)						CAS #: 17060-07-0		
7.428	7.428	(0.953)	102	1398	2.50000	2.0	70.00- 130.00	100.00
7.422	7.422	(0.952)	65	10048			688.74- 748.74	718.74
7.420	7.420	(0.952)	67	4452			288.45- 348.45	318.45
40 1,2-Dichloroethane						CAS #: 107-06-2		
7.534	7.534	(0.966)	62	11617	2.00000	2.1	70.00- 130.00	100.00
7.525	7.525	(0.965)	64	3764			2.40- 62.40	32.40
7.533	7.533	(0.966)	98	503			0.00- 34.33	4.33
41 Benzene						CAS #: 71-43-2		
7.541	7.541	(0.967)	78	29557	2.00000	2.2	70.00- 130.00	100.00
7.545	7.545	(0.968)	52	5801			0.00- 49.63	19.63
7.542	7.542	(0.967)	77	6286			0.00- 51.27	21.27
* 42 FLUOROBENZENE (IS)						CAS #: 462-06-6		
7.797	7.797	(1.000)	96	560587	50.0000		70.00- 130.00	100.00
7.798	7.798	(1.000)	70	120117			0.00- 51.43	21.43
7.798	7.798	(1.000)	50	84959			0.00- 45.16	15.16
43 Trichloroethylene						CAS #: 79-01-6		
8.245	8.245	(1.057)	130	6133	2.00000	2.0	70.00- 130.00	100.00
8.245	8.245	(1.057)	95	7139			86.40- 146.40	116.40
8.246	8.246	(1.058)	97	4634			45.56- 105.56	75.56
44 Methyl Cyclohexane						CAS #: 108-87-2		
8.318	8.318	(1.067)	83	11683			70.00- 130.00	100.00(a)

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RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	TARGET RANGE	RATIO
44 Methyl Cyclohexane (continued)								
8.317	8.317	(1.067)	55	12662	2.00000	2.2	78.38- 138.38	108.38
8.311	8.311	(1.066)	41	6846			28.60- 88.60	58.60
45 1,2-Dichloropropane						CAS #: 78-87-5		
8.434	8.434	(1.082)	63	7771	2.00000	2.0	70.00- 130.00	100.00
8.445	8.445	(1.083)	62	6103			48.54- 108.54	78.54
8.440	8.440	(1.082)	76	3445			14.33- 74.33	44.33
46 Methyl Methacrylate						CAS #: 80-62-6		
8.520	8.520	(1.093)	69	4291	2.00000	1.9	70.00- 130.00	100.00
8.523	8.523	(1.093)	41	7856			153.08- 213.08	183.08
47 Bromodichloromethane						CAS #: 75-27-4		
8.686	8.686	(1.114)	83	9137	2.00000	2.0	70.00- 130.00	100.00
8.685	8.685	(1.114)	85	5798			33.46- 93.46	63.46
48 1,4 Dioxane						CAS #: 123-91-1		
8.729	8.729	(1.119)	88	896	40.0000	31.9	70.00- 130.00	100.00(M)
8.729	8.729	(1.119)	58	818			61.29- 121.29	91.29
8.735	8.735	(1.120)	43	107			0.00- 41.94	11.94
49 Dibromomethane						CAS #: 74-95-3		
8.739	8.739	(1.121)	93	4246	2.00000	2.2	70.00- 130.00	100.00
8.733	8.733	(1.120)	95	3634			55.59- 115.59	85.59
8.740	8.740	(1.121)	174	3862			60.96- 120.96	90.96
50 4-Methyl-2-Pentanone						CAS #: 108-10-1		
9.075	9.075	(1.164)	43	15626			70.00- 130.00	100.00(a)
9.074	9.074	(1.164)	58	5077	4.00000	4.1	2.49- 62.49	32.49
9.068	9.068	(1.163)	100	1605			0.00- 40.27	10.27
51 2-Hexanone						CAS #: 591-78-6		
9.976	9.976	(0.901)	43	10509	4.00000	4.3	70.00- 130.00	100.00(a)
9.972	9.972	(0.900)	58	4377			11.65- 71.65	41.65
52 cis 1,3-Dichloropropene						CAS #: 10061-01-5		
9.272	9.272	(1.189)	75	10135	2.00000	1.9	70.00- 130.00	100.00
9.274	9.274	(1.189)	77	3170			1.28- 61.28	31.28
9.273	9.273	(1.189)	110	1723			0.00- 47.00	17.00
$ 53 TOLUENE d8 (surr)						CAS #: 2037-26-5		
9.528	9.528	(1.222)	98	27888	2.50000	2.3	70.00- 130.00	100.00
9.522	9.522	(1.221)	70	3142			0.00- 41.27	11.27
9.528	9.528	(1.222)	100	17327			32.13- 92.13	62.13

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RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	TARGET RANGE	RATIO
54 Toluene							CAS #: 108-88-3	
9.608	9.608	(1.232)	92	16049	2.00000	2.0	70.00- 130.00	100.00
9.611	9.611	(1.233)	91	26944			137.89- 197.89	167.89
9.610	9.610	(1.232)	65	3317			0.00- 50.67	20.67
55 trans 1,3-Dichloropropene							CAS #: 10061-02-6	
9.795	9.795	(1.256)	75	9172	2.00000	1.9	70.00- 130.00	100.00
9.795	9.795	(1.256)	77	3127			4.09- 64.09	34.09
9.794	9.794	(1.256)	110	1775			0.00- 49.35	19.35
56 Ethyl Methacrylate							CAS #: 97-63-2	
9.793	9.793	(1.256)	69	8000	2.00000	2.0	70.00- 130.00	100.00
9.793	9.793	(1.256)	99	1199			0.00- 44.99	14.99
57 1,1,2-Trichloroethane							CAS #: 79-00-5	
9.955	9.955	(1.277)	97	5497	2.00000	2.0	70.00- 130.00	100.00
9.954	9.954	(1.277)	83	4605			53.77- 113.77	83.77
9.951	9.951	(1.276)	85	3669			36.75- 96.75	66.75
58 1,3-Dichloropropane							CAS #: 142-28-9	
10.214	10.214	(0.922)	76	11387	2.00000	2.2	70.00- 130.00	100.00
10.212	10.212	(0.922)	78	3060			0.00- 56.87	26.87
10.216	10.216	(0.922)	63	1086			0.00- 39.54	9.54
59 Tetrachloroethylene							CAS #: 127-18-4	
10.286	10.286	(0.929)	164	5240	2.00000	2.2	70.00- 130.00	100.00
10.285	10.285	(0.928)	129	4804			61.68- 121.68	91.68
10.284	10.284	(0.928)	166	5959			83.72- 143.72	113.72
60 Dibromochloromethane							CAS #: 124-48-1	
10.483	10.483	(0.946)	129	5287	2.00000	2.0	70.00- 130.00	100.00
10.481	10.481	(0.946)	127	3959			44.88- 104.88	74.88
61 1,2-Dibromoethane							CAS #: 106-93-4	
10.687	10.687	(0.965)	107	5370	2.00000	2.0	70.00- 130.00	100.00
10.687	10.687	(0.965)	109	4857			60.45- 120.45	90.45
62 1-Chlorohexane							CAS #: 544-10-5	
10.858	10.858	(0.980)	91	7604	2.00000	1.8	70.00- 130.00	100.00
10.858	10.858	(0.980)	55	8000			75.21- 135.21	105.21
10.856	10.856	(0.980)	56	4537			29.67- 89.67	59.67
* 63 CHLOROBENZENE d5 (IS)							CAS #: 3114-55-4	
11.077	11.077	(1.000)	117	400884	50.0000		70.00- 130.00	100.00
11.077	11.077	(1.000)	119	127104			1.71- 61.71	31.71
11.077	11.077	(1.000)	82	247960			31.85- 91.85	61.85

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RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	TARGET RANGE	RATIO
64 Chlorobenzene						CAS #: 108-90-7		
11.116	11.116	(1.004)	112	17511	2.00000	2.1	70.00- 130.00	100.00
11.116	11.116	(1.004)	114	5084			0.00- 59.03	29.03
11.113	11.113	(1.003)	77	12199			39.66- 99.66	69.66
65 1,1,1,2-Tetrachloroethane						CAS #: 630-20-6		
11.161	11.161	(1.008)	131	5214	2.00000	2.0	70.00- 130.00	100.00
11.151	11.151	(1.007)	117	4369			53.79- 113.79	83.79
11.157	11.157	(1.007)	95	2340			14.88- 74.88	44.88
66 Ethylbenzene						CAS #: 100-41-4		
11.171	11.171	(1.008)	106	9533	2.00000	2.2	70.00- 130.00	100.00
11.171	11.171	(1.008)	91	30041			285.13- 345.13	315.13
11.174	11.174	(1.009)	77	2755			0.00- 58.90	28.90
67 p,m-Xylene						CAS #: 511-39-00		
11.248	11.248	(1.015)	106	22019	4.00000	4.0	70.00- 130.00	100.00
11.248	11.248	(1.015)	91	49259			193.71- 253.71	223.71
11.247	11.247	(1.015)	105	10397			17.22- 77.22	47.22
68 o-Xylene						CAS #: 95-47-6		
11.690	11.690	(1.055)	91	24213	2.00000	2.0	70.00- 130.00	100.00
11.688	11.688	(1.055)	106	10867			14.88- 74.88	44.88
11.687	11.687	(1.055)	77	3603			0.00- 44.88	14.88
69 Styrene						CAS #: 100-42-5		
11.723	11.723	(1.058)	104	18747	2.00000	2.0	70.00- 130.00	100.00
11.723	11.723	(1.058)	103	9937			23.01- 83.01	53.01
11.725	11.725	(1.059)	78	9976			23.21- 83.21	53.21
70 Bromoform						CAS #: 75-25-2		
12.065	12.065	(1.089)	173	3024	2.00000	3.1	70.00- 130.00	100.00
12.064	12.064	(1.089)	175	1350			14.64- 74.64	44.64
71 1-Methylethylbenzene						CAS #: 98-82-8		
12.052	12.052	(0.892)	105	28298	2.00000	2.1	70.00- 130.00	100.00
12.054	12.054	(0.893)	120	7341			0.00- 55.94	25.94
12.050	12.050	(0.892)	77	5227			0.00- 48.47	18.47
72 1,4-Dichloro-2-Butene						CAS #: 110-57-6		
12.089	12.089	(0.895)	53	1575	4.00000	5.8	70.00- 130.00	100.00
12.088	12.088	(0.895)	75	939			29.62- 89.62	59.62
12.081	12.081	(0.895)	89	333			0.00- 51.14	21.14
73 1,1,2,2-Tetrachloroethane						CAS #: 79-34-5		
12.216	12.216	(0.905)	83	7188	2.00000	2.0	70.00- 130.00	100.00

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73 1,1,2,2-Tetrachloroethane (continued)								
12.220	12.220	(0.905)	85	4549			33.29- 93.29	63.29
12.217	12.217	(0.905)	133	377			0.00- 35.24	5.24
$ 74 4-BROMOFLUOROBENZENE (surr)						CAS #: 460-00-4		
12.305	12.305	(0.911)	95	10678	2.50000	2.4	70.00- 130.00	100.00
12.304	12.304	(0.911)	174	7085			36.35- 96.35	66.35
12.307	12.307	(0.911)	176	7233			37.74- 97.74	67.74
75 1,2,3- trichloropropane						CAS #: 96-18-4		
12.366	12.366	(0.916)	75	6309			70.00- 130.00	100.00
12.362	12.362	(0.915)	77	1820			0.00- 58.85	28.85
12.371	12.371	(0.916)	110	2095	2.00000	2.0	3.21- 63.21	33.21
76 n-Propylbenzene						CAS #: 103-65-1		
12.458	12.458	(0.923)	91	34647	2.00000	2.0	70.00- 130.00	100.00
12.457	12.457	(0.922)	92	3553			0.00- 40.25	10.25
12.458	12.458	(0.923)	120	7497			0.00- 51.64	21.64
77 Bromobenzene						CAS #: 108-86-1		
12.504	12.504	(0.926)	77	13876	2.00000	2.1	70.00- 130.00	100.00
12.505	12.505	(0.926)	156	6812			19.09- 79.09	49.09
12.505	12.505	(0.926)	158	6887			19.63- 79.63	49.63
78 1,3,5-Trimethylbenzene						CAS #: 108-67-8		
12.615	12.615	(0.934)	105	23841	2.00000	2.0	70.00- 130.00	100.00
12.614	12.614	(0.934)	120	11810			19.54- 79.54	49.54
12.616	12.616	(0.934)	77	3211			0.00- 43.47	13.47
79 2-Chlorotoluene						CAS #: 95-49-8		
12.638	12.638	(0.936)	91	24885	2.00000	2.1	70.00- 130.00	100.00
12.639	12.639	(0.936)	126	6922			0.00- 57.82	27.82
12.632	12.632	(0.935)	63	4873			0.00- 49.58	19.58
80 4-Chlorotoluene						CAS #: 106-43-4		
12.684	12.684	(0.939)	91	24513	2.00000	2.2	70.00- 130.00	100.00
12.684	12.684	(0.939)	126	6738			0.00- 57.49	27.49
12.684	12.684	(0.939)	63	3098			0.00- 42.64	12.64
81 tert-Butylbenzene						CAS #: 98-06-6		
12.978	12.978	(0.961)	119	22401	2.00000	2.0	70.00- 130.00	100.00
12.976	12.976	(0.961)	91	17937			50.07- 110.07	80.07
12.982	12.982	(0.961)	134	4784			0.00- 51.36	21.36
82 1,2,4-trimethylbenzene						CAS #: 95-63-6		
13.015	13.015	(0.964)	105	24000	2.00000	2.0	70.00- 130.00	100.00

Data File: \\Vms03\dd\chem\vms03.i\M3082702.b\2PPB.D
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RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)		TARGET RANGE	RATIO
82 1,2,4-trimethylbenzene (continued)									
13.015	13.015	(0.964)	120	10793				14.97- 74.97	44.97
13.014	13.014	(0.964)	77	3240				0.00- 43.50	13.50
83 sec-Butylbenzene							CAS #: 135-98-8		
13.193	13.193	(0.977)	105	29633	2.00000	2.1		70.00- 130.00	100.00
13.194	13.194	(0.977)	134	5150				0.00- 47.38	17.38
13.193	13.193	(0.977)	91	5101				0.00- 47.21	17.21
84 p-Isopropyltoluene							CAS #: 99-87-6		
13.329	13.329	(0.987)	119	24054	2.00000	2.0		70.00- 130.00	100.00
13.333	13.333	(0.987)	134	5996				0.00- 54.93	24.93
13.329	13.329	(0.987)	91	5668				0.00- 53.56	23.56
85 1,3-Dichlorobenzene							CAS #: 541-73-1		
13.430	13.430	(0.995)	146	14176	2.00000	2.2		70.00- 130.00	100.00
13.432	13.432	(0.995)	148	8777				31.91- 91.91	61.91
13.427	13.427	(0.994)	111	5625				9.68- 69.68	39.68
* 86 1,4-DICHLOROBENZENE-d4 (IS)							CAS #: 3855-82-1		
13.504	13.504	(1.000)	152	210592	50.0000			70.00- 130.00	100.00
13.503	13.503	(1.000)	150	335714				129.41- 189.41	159.41
13.503	13.503	(1.000)	115	135186				34.19- 94.19	64.19
87 1,4-Dichlorobenzene							CAS #: 106-46-7		
13.535	13.535	(1.002)	146	13621	2.00000	2.0		70.00- 130.00	100.00
13.536	13.536	(1.002)	148	9262				38.00- 98.00	68.00
13.535	13.535	(1.002)	111	6153				15.17- 75.17	45.17
88 Benzyl Chloride							CAS #: 100-44-7		
13.648	13.648	(1.011)	91	8189	2.00000	3.3		70.00- 130.00	100.00
13.646	13.646	(1.011)	65	985				0.00- 42.03	12.03
89 n-Butylbenzene							CAS #: 104-51-8		
13.745	13.745	(1.018)	91	21328	2.00000	1.9		70.00- 130.00	100.00
13.745	13.745	(1.018)	92	11749				25.09- 85.09	55.09
13.746	13.746	(1.018)	134	4984				0.00- 53.37	23.37
90 1,2-Dichlorobenzene							CAS #: 95-50-1		
13.912	13.912	(1.030)	146	13508	2.00000	2.2		70.00- 130.00	100.00
13.915	13.915	(1.030)	148	8679				34.25- 94.25	64.25
13.915	13.915	(1.030)	111	5758				12.63- 72.63	42.63
91 1,2-dibromo-3-chloropropane							CAS #: 96-12-8		
14.596	14.596	(1.081)	75	1201	2.00000	2.8		70.00- 130.00	100.00
14.597	14.597	(1.081)	155	722				30.12- 90.12	60.12

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Report Date: 26-Sep-2002 08:18

RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	TARGET RANGE	RATIO
91 1,2-dibromo-3-chloropropane (continued)								
14.599	14.599	(1.081)	157	1306			78.74- 138.74	108.74
92 1,2,4-Trichlorobenzene						CAS #: 120-82-1		
15.252	15.252	(1.129)	180	8592	2.00000	2.0	70.00- 130.00	100.00
15.252	15.252	(1.129)	182	8175			65.15- 125.15	95.15
15.253	15.253	(1.129)	145	2575			0.00- 59.97	29.97
93 Hexachlorobutadiene						CAS #: 87-68-3		
15.347	15.347	(1.137)	225	3333			70.00- 130.00	100.00
15.348	15.348	(1.137)	223	1942	2.00000	2.0	28.27- 88.27	58.27
15.348	15.348	(1.137)	227	1675			20.26- 80.26	50.26
94 Naphthalene						CAS #: 91-20-3		
15.433	15.433	(1.143)	128	18591	2.00000	1.9	70.00- 130.00	100.00
15.437	15.437	(1.143)	127	2541			0.00- 43.67	13.67
15.435	15.435	(1.143)	129	2107			0.00- 41.33	11.33
95 1,2,3-trichlorobenzene						CAS #: 87-61-6		
15.602	15.602	(1.155)	180	7668	2.00000	2.0	70.00- 130.00	100.00
15.601	15.601	(1.155)	182	7527			68.16- 128.16	98.16
15.601	15.601	(1.155)	145	2546			3.20- 63.20	33.20

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\Vms03\dd\chem\vms03.i\M3082702.b\2PPB.D
Report Date: 26-Sep-2002 08:18

PEL Laboratories, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

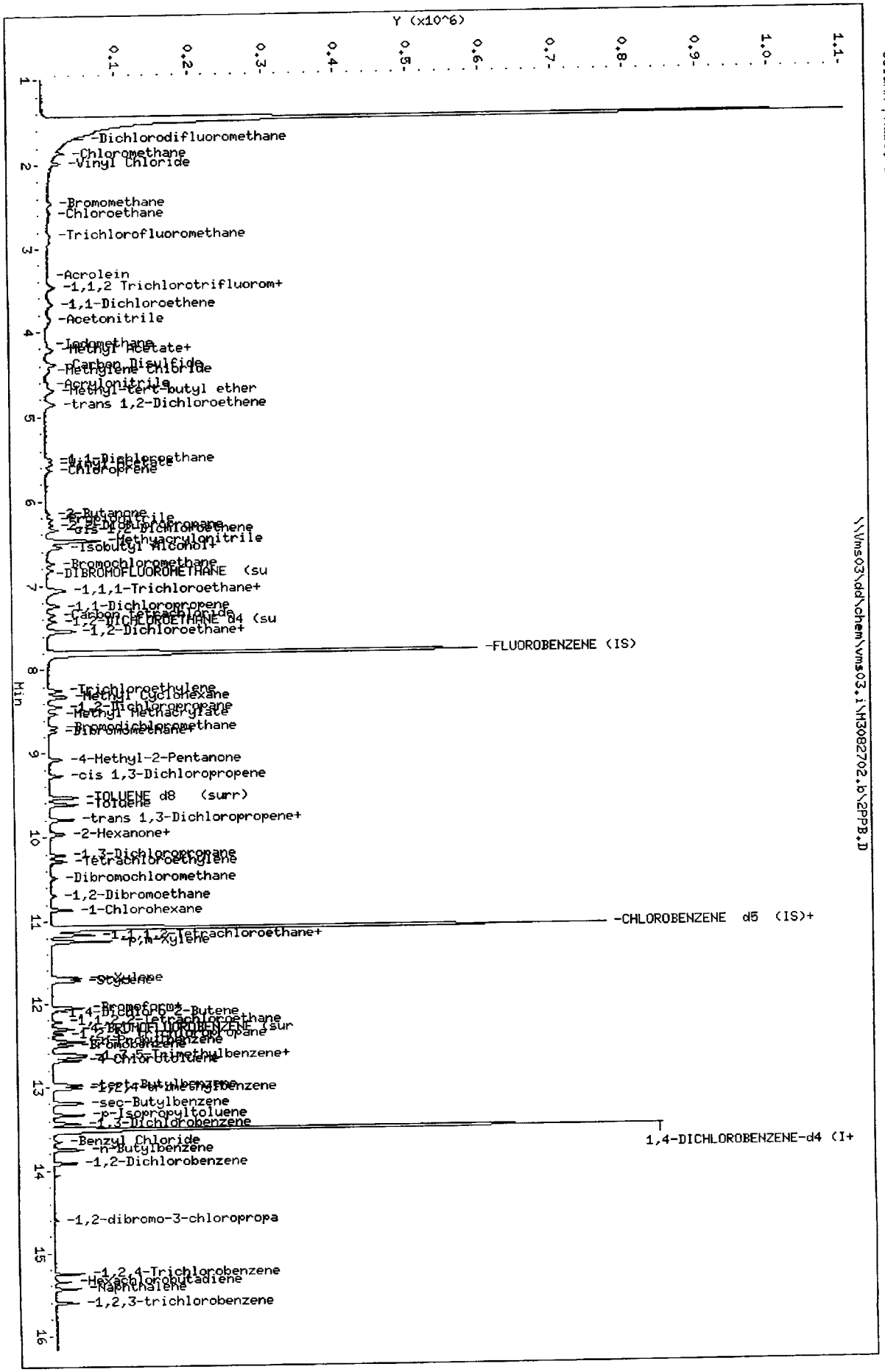
Instrument ID: vms03.i
Lab File ID: 2PPB.D
Lab Smp Id: 2PPBCAL
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\VMS03\dd\chem\vms03.i\M3082702.b\8260A.m
Misc Info:

Calibration Date: 27-AUG-2002
Calibration Time: 08:53
Client Smp ID: 2PPBCAL
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
42 FLUOROBENZENE (IS	574299	287150	1148598	560587	-2.39
63 CHLOROBENZENE d5	414562	207281	829124	400884	-3.30
86 1,4-DICHLOROBENZE	223111	111556	446222	210592	-5.61

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
42 FLUOROBENZENE (IS	7.80	7.30	8.30	7.80	-0.02
63 CHLOROBENZENE d5	11.08	10.58	11.58	11.08	-0.01
86 1,4-DICHLOROBENZE	13.50	13.00	14.00	13.50	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.


Data File: \\Vms03\dd\chem\vms03.i\M3082702.b\2PPB.D
Date : 27-AUG-2002 07:18
Client ID: 2PPBCAL
Sample Info: 2PPBCAL
Purge Volume: 5.0
Column phase: DB-624
Instrument: vms03.i
Operator:
Column diameter: 0.18
\\Vms03\dd\chem\vms03.i\M3082702.b\2PPB.D
Y (x10^6)
Min
-Dichlorodifluoromethane
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Trichlorofluoromethane
-Acrolein
-1,1,2 Trichlorotrifluorom+
-1,1-Dichloroethene
-Acetonitrile
-Iodomethane
-Methyl Acetate+
-Carbon Disulfide
-Methylene Chloride
-Acrylonitrile
-Methyl-tert-butyl ether
-trans 1,2-Dichloroethene
-1,1-Dichloroethane
-Vinyl Acetate
-Chloroprene
-2-Butanone
-Propionitrile
-2,2-Dichloropropane
-cis-1,2-Dichloroethene
-Methacrylonitrile
-Isobutyl Alcohol+
-Bromochloromethane
-DIBROMOFLUOROMETHANE (su
-1,1,1-Trichloroethane+
-1,1-Dichloropropene
-Carbon Tetrachloride
-1,2-DICHLOROETHANE d4 (su
-1,2-Dichloroethane+
-FLUOROBENZENE (IS)
-Trichloroethylene
-Methyl Cyclohexane
-1,2-Dichloropropane
-Methyl Methacrylate
-Dibromomethane
-Bromodichloromethane+
-4-Methyl-2-Pentanone
-cis 1,3-Dichloropropene
-TOLUENE d8 (surr)
-Toluene
-trans 1,3-Dichloropropene+
-2-Hexanone+
-1,3-Dichloropropane
-Tetrachloroethylene
-Dibromochloromethane
-1,2-Dibromoethane
-1-Chlorohexane
-CHLOROBENZENE d5 (IS)+
-1,1,1,2-Tetrachloroethane+
-p,m-Xylene
-o-Xylene
-Bromoform
-1,4-Dichloro-2-Butene
-1,1,2,2-Tetrachloroethane
-1,4-BROMOFLUOROBENZENE (sur
-1,2,3-Trichloropropane
-cis-Propylbenzene
-Bromobenzene
-2-Chlorotoluene
-1,3,5-Trimethylbenzene+
-4-Chlorotoluene
-tert-Butylbenzene
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-p-Isopropyltoluene
-1,3-Dichlorobenzene
1,4-DICHLOROBENZENE-d4 (I+
-Benzyl Chloride
-n-Butylbenzene
-1,2-Dichlorobenzene
-1,2-dibromo-3-chloropropa
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-trichlorobenzene

Data File: \\Vms03\dd\chem\vms03.i\M3082702.b\5PPB.D
Report Date: 26-Sep-2002 08:18

PEL Laboratories, Inc.

Data file : \\Vms03\dd\chem\vms03.i\M3082702.b\5PPB.D
Lab Smp Id: 5PPBCAL
Client Smp ID: 5PPBCAL
Inj Date : 27-AUG-2002 07:41
MS Autotune Date: 29-OCT-2001 10:36
Operator :
Inst ID: vms03.i
Smp Info : 5PPBCAL
Misc Info :
Comment :
Method : \\VMS03\dd\chem\vms03.i\M3082702.b\8260A.m
Meth Date : 26-Sep-2002 08:18 lpelo
Quant Type: ISTD
Cal Date : 27-AUG-2002 06:54
Cal File: 1PPB.D
Als bottle: 4
Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP Genie
Compound Sublist: all.sub
Target Version: 4.04
Sample Matrix: WATER
Processing Host: PELCOMP01

Concentration Formula: Amt * DF * Vf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	Final Volume
Vo	5.000	Sample Volume

	RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	TARGET RANGE	RATIO
M	1 1,2-Dichloroethene (Total)						CAS #: 540-59-0		
					45891	10.0000	10.6		
M	2 Xylenes (Total)						CAS #: 1330-20-7		
					115630	15.0000	15.1		
M	3 Trihalomethanes (Total)						CAS #: THM		
					74908	5.00000	20.4		
	4 Dichlorodifluoromethane						CAS #: 75-71-8		
	1.642	1.642	(0.211)	85	28878	5.00000	5.5	70.00- 130.00	100.00
	1.644	1.644	(0.211)	87	9029			1.27- 61.27	31.27
	5 Chloromethane						CAS #: 74-87-3		
	1.857	1.857	(0.238)	50	34382	5.00000	5.3	70.00- 130.00	100.00

Data [illegible] \Vms03\dd\chem\vms03.i\M3082702.b\5PPB.D
Report [illegible] 26-Sep-2002 08:18

AMOUNTS

RT	EX	[illegible]	MASS	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)	TARGET RANGE	RATIO
5 Chlo[illegible]		(continued)						
1.857	[illegible]	(8)	52	10475			0.47- 60.47	30.47
6 Vin[illegible]						CAS #: 75-01-4		
1.979	[illegible]	[illegible])	62	26901	5.00000	5.8	70.00- 130.00	100.00
1.981	[illegible]	(4)	64	8343			1.01- 61.01	31.01
7 Bromo[illegible]						CAS #: 74-83-9		
2.453	2.[illegible]	[illegible])	94	15820			70.00- 130.00	100.00
2.449	2.[illegible]	[illegible])	96	13252	5.00000	5.6	53.77- 113.77	83.77
8 Chloro[illegible]						CAS #: 75-00-3		
2.563	2.5[illegible]	[illegible])	64	15371	5.00000	5.3	70.00- 130.00	100.00
2.561	2.5[illegible]	[illegible])	66	5818			7.85- 67.85	37.85
9 Trichlo[illegible]methane						CAS #: 75-69-4		
2.848	2.84	[illegible])	101	20889	5.00000	5.2	70.00- 130.00	100.00
2.843	2.84	[illegible])	103	13572			34.97- 94.97	64.97
2.853	2.85	[illegible])	66	3715			0.00- 47.78	17.78
10 Acrolei[illegible]						CAS #: 107-02-8		
3.371	3.37[illegible]	(432)	56	5603	10.0000	10	70.00- 130.00	100.00
3.371	3.37[illegible]	[illegible])	55	4157			44.19- 104.19	74.19
11 1,1,2 T[illegible]otrifluoromethane						CAS #: 76-13-1		
3.453	3.45[illegible]	[illegible])	101	17103	5.00000	5.6	70.00- 130.00	100.00(a)
3.444	3.44[illegible]	[illegible])	151	12319			42.03- 102.03	72.03
3.456	3.45[illegible]	[illegible])	103	11518			37.34- 97.34	67.34
12 Acetone						CAS #: 67-64-1		
3.465	3.46[illegible]	[illegible])	43	14926	10.0000	11.9	70.00- 130.00	100.00
3.470	3.47[illegible]	[illegible])	58	5423			6.33- 66.33	36.33
13 1,1-Dic[illegible]ue						CAS #: 75-35-4		
3.668	3.66[illegible]	[illegible])	61	30456	5.00000	5.1	70.00- 130.00	100.00(M)
3.669	3.669	[illegible])	96	14513			17.65- 77.65	47.65
3.673	3.67[illegible]	[illegible])	98	9020			0.00- 59.62	29.62
14 Acetonit[illegible]						CAS #: 75-05-8		
3.857	3.857	[illegible]95)	41	24171	50.0000	47.4	70.00- 130.00	100.00
3.858	3.85[illegible]	[illegible])	40	15378			33.62- 93.62	63.62
3.853	3.85[illegible]	[illegible])	39	4823			0.00- 49.95	19.95
15 Iodometha[illegible]						CAS #: 74-88-4		
4.146	4.146	[illegible]32)	142	27342	5.00000	5.1	70.00- 130.00	100.00
4.143	4.143	(0.531)	127	9257			3.86- 63.86	33.86

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RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	TARGET RANGE	RATIO	
15 Iodomethane (continued)									
4.143	4.143	(0.531)	141	2021			0.00- 37.39	7.39	
16 Methyl Acetate						CAS #: 79-20-9			
4.193	4.193	(0.538)	43	16257	5.00000	5.1			(a)
17 Allyl Chloride						CAS #: 107-05-1			
4.222	4.222	(0.541)	41	27685	5.00000	4.7	70.00- 130.00	100.00	
4.218	4.218	(0.541)	39	19578			40.72- 100.72	70.72	
4.231	4.231	(0.543)	78	1972			0.00- 37.12	7.12	
18 Carbon Disulfide						CAS #: 75-15-0			
4.385	4.385	(0.562)	76	59706	5.00000	5.0	70.00- 130.00	100.00	
4.382	4.382	(0.562)	78	5397			0.00- 39.04	9.04	
19 Methylene Chloride						CAS #: 75-09-2			
4.454	4.454	(0.571)	84	17689			70.00- 130.00	100.00	
4.456	4.456	(0.571)	49	32081	5.00000	5.0	151.36- 211.36	181.36	
4.455	4.455	(0.571)	51	5670			2.05- 62.05	32.05	
20 Acrylonitrile						CAS #: 107-13-1			
4.605	4.605	(0.591)	53	14507	10.0000	10.3	70.00- 130.00	100.00	
4.608	4.608	(0.591)	52	11685			50.55- 110.55	80.55	
4.603	4.603	(0.590)	51	5247			6.17- 66.17	36.17	
21 Methyl-tert-butyl ether						CAS #: 1634-04-4			
4.685	4.685	(0.601)	73	54492	5.00000	5.0	70.00- 130.00	100.00	
4.683	4.683	(0.601)	57	13371			0.00- 54.54	24.54	
22 trans 1,2-Dichloroethene						CAS #: 156-60-5			
4.858	4.858	(0.623)	96	14874			70.00- 130.00	100.00	
4.858	4.858	(0.623)	61	27622	5.00000	5.2	155.71- 215.71	185.71	
4.854	4.854	(0.622)	98	9635			34.78- 94.78	64.78	
23 1,1-Dichloroethane						CAS #: 75-34-3			
5.508	5.508	(0.706)	63	34405	5.00000	5.1	70.00- 130.00	100.00	
5.507	5.507	(0.706)	65	10259			0.00- 59.82	29.82	
5.513	5.513	(0.707)	83	3582			0.00- 40.41	10.41	
24 Vinyl Acetate						CAS #: 108-05-4			
5.554	5.554	(0.712)	43	47215	5.00000	4.8	70.00- 130.00	100.00	
5.557	5.557	(0.713)	86	3237			0.00- 36.86	6.86	
25 Chloroprene						CAS #: 126-99-8			
5.641	5.641	(0.723)	53	19521	5.00000	5.2	70.00- 130.00	100.00	
5.638	5.638	(0.723)	88	7909			10.52- 70.52	40.52	

Data File: \\Vms03\dd\chem\vms03.i\M3082702.b\5PPB.D
Report Date: 26-Sep-2002 08:18

RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	TARGET RANGE	RATIO
25 Chloroprene (continued)								
5.642	5.642	(0.723)	90	2094			0.00- 40.73	10.73
26 2-Butanone						CAS #: 78-93-3		
6.139	6.139	(0.787)	43	17964	10.0000	9.9	70.00- 130.00	100.00
6.141	6.141	(0.787)	72	2801			0.00- 45.59	15.59
27 Propionitrile						CAS #: 107-12-0		
6.220	6.220	(0.798)	54	26075	50.0000	48.7	70.00- 130.00	100.00
6.211	6.211	(0.796)	52	5716			0.00- 51.92	21.92
6.219	6.219	(0.797)	55	3932			0.00- 45.08	15.08
28 2,2-Dichloropropane						CAS #: 594-20-7		
6.294	6.294	(0.807)	77	17707	5.00000	5.2	70.00- 130.00	100.00
6.290	6.290	(0.807)	79	5945			3.57- 63.57	33.57
6.301	6.301	(0.808)	97	1625			0.00- 39.18	9.18
29 cis-1,2-Dichloroethene						CAS #: 156-59-2		
6.344	6.344	(0.814)	96	18269	5.00000	5.4	70.00- 130.00	100.00
6.339	6.339	(0.813)	61	28151			124.09- 184.09	154.09
6.341	6.341	(0.813)	98	11361			32.19- 92.19	62.19
30 Methyacrylonitrile						CAS #: 126-98-7		
6.473	6.473	(0.830)	67	64627	50.0000	49.3	70.00- 130.00	100.00
6.470	6.470	(0.830)	66	24203			7.45- 67.45	37.45
6.474	6.474	(0.830)	52	33067			21.17- 81.17	51.17
31 Isobutyl Alcohol						CAS #: 78-83-1		
6.552	6.552	(0.840)	43	14315	100.000	86.6	70.00- 130.00	100.00
6.549	6.549	(0.840)	42	9248			34.60- 94.60	64.60
6.542	6.542	(0.839)	41	15827			80.56- 140.56	110.56
32 Chloroform						CAS #: 67-66-3		
6.547	6.547	(0.840)	83	31327	5.00000	5.1	70.00- 130.00	100.00
6.545	6.545	(0.839)	85	19822			33.27- 93.27	63.27
6.543	6.543	(0.839)	47	9329			0.00- 59.78	29.78
33 Bromochloromethane						CAS #: 74-97-5		
6.745	6.745	(0.865)	128	7420	5.00000	5.0	70.00- 130.00	100.00
6.741	6.741	(0.864)	49	20406			245.01- 305.01	275.01
6.748	6.748	(0.865)	130	9617			99.61- 159.61	129.61
$ 34 DIBROMOFLUOROMETHANE (surr)						CAS #: 1868-53-7		
6.817	6.817	(0.874)	113	13971	5.00000	4.9	70.00- 130.00	100.00
6.816	6.816	(0.874)	111	13833			69.01- 129.01	99.01
6.823	6.823	(0.875)	192	2339			0.00- 46.74	16.74

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RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	TARGET RANGE	RATIO
35 1,1,1-Trichloroethane						CAS #: 71-55-6		
7.046	7.046	(0.903)	97	24462	5.00000	5.0	70.00- 130.00	100.00
7.044	7.044	(0.903)	99	15408			32.99- 92.99	62.99
7.050	7.050	(0.904)	117	2932			0.00- 41.99	11.99
36 Cyclohexane						CAS #: 110-82-7		
7.063	7.063	(0.906)	56	39157	5.00000	5.2	70.00- 130.00	100.00(a)
7.064	7.064	(0.906)	84	27209			39.49- 99.49	69.49
7.061	7.061	(0.905)	41	25099			34.10- 94.10	64.10
37 1,1-Dichloropropene						CAS #: 563-58-6		
7.237	7.237	(0.928)	75	23920	5.00000	5.2	70.00- 130.00	100.00
7.237	7.237	(0.928)	77	7607			1.80- 61.80	31.80
7.240	7.240	(0.928)	110	7413			0.99- 60.99	30.99
38 Carbon tetrachloride						CAS #: 56-23-5		
7.349	7.349	(0.942)	117	20282	5.00000	5.1	70.00- 130.00	100.00
7.343	7.343	(0.942)	119	18618			61.80- 121.80	91.80
7.350	7.350	(0.943)	121	5580			0.00- 57.51	27.51
$ 39 1,2-DICHLOROETHANE d4 (surr)						CAS #: 17060-07-0		
7.415	7.415	(0.951)	102	3359	5.00000	4.9	70.00- 130.00	100.00
7.421	7.421	(0.952)	65	21413			607.48- 667.48	637.48
7.425	7.425	(0.952)	67	10659			287.33- 347.33	317.33
40 1,2-Dichloroethane						CAS #: 107-06-2		
7.531	7.531	(0.966)	62	27986	5.00000	5.0	70.00- 130.00	100.00
7.529	7.529	(0.966)	64	8931			1.91- 61.91	31.91
7.528	7.528	(0.965)	98	1939			0.00- 36.93	6.93
41 Benzene						CAS #: 71-43-2		
7.544	7.544	(0.967)	78	68965	5.00000	5.1	70.00- 130.00	100.00
7.538	7.538	(0.967)	52	13607			0.00- 49.73	19.73
7.543	7.543	(0.967)	77	15412			0.00- 52.35	22.35
* 42 FLUOROBENZENE (IS)						CAS #: 462-06-6		
7.798	7.798	(1.000)	96	567261	50.0000		70.00- 130.00	100.00
7.798	7.798	(1.000)	70	120828			0.00- 51.30	21.30
7.796	7.796	(1.000)	50	85381			0.00- 45.05	15.05
43 Trichloroethylene						CAS #: 79-01-6		
8.243	8.243	(1.057)	130	15512	5.00000	5.0	70.00- 130.00	100.00
8.246	8.246	(1.057)	95	17995			86.01- 146.01	116.01
8.242	8.242	(1.057)	97	10556			38.05- 98.05	68.05
44 Methyl Cyclohexane						CAS #: 108-87-2		
8.318	8.318	(1.067)	83	30341			70.00- 130.00	100.00(a)

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RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	TARGET RANGE	RATIO
44 Methyl Cyclohexane (continued)								
8.316	8.316	(1.066)	55	29183	5.00000	5.0	66.18- 126.18	96.18
8.317	8.317	(1.067)	41	16773			25.28- 85.28	55.28
45 1,2-Dichloropropane						CAS #: 78-87-5		
8.438	8.438	(1.082)	63	19520	5.00000	5.0	70.00- 130.00	100.00
8.438	8.438	(1.082)	62	14616			44.88- 104.88	74.88
8.438	8.438	(1.082)	76	8472			13.40- 73.40	43.40
46 Methyl Methacrylate						CAS #: 80-62-6		
8.526	8.526	(1.093)	69	11807	5.00000	5.2	70.00- 130.00	100.00
8.521	8.521	(1.093)	41	18340			125.33- 185.33	155.33
47 Bromodichloromethane						CAS #: 75-27-4		
8.684	8.684	(1.114)	83	23216	5.00000	5.0	70.00- 130.00	100.00
8.686	8.686	(1.114)	85	14647			33.09- 93.09	63.09
48 1,4 Dioxane						CAS #: 123-91-1		
8.727	8.727	(1.119)	88	2708	100.000	95.4	70.00- 130.00	100.00
8.730	8.730	(1.119)	58	1975			42.93- 102.93	72.93
8.724	8.724	(1.119)	43	387			0.00- 44.29	14.29
49 Dibromomethane						CAS #: 74-95-3		
8.737	8.737	(1.120)	93	10114	5.00000	5.1	70.00- 130.00	100.00
8.738	8.738	(1.120)	95	7696			46.09- 106.09	76.09
8.737	8.737	(1.120)	174	9276			61.71- 121.71	91.71
50 4-Methyl-2-Pentanone						CAS #: 108-10-1		
9.073	9.073	(1.163)	43	36809			70.00- 130.00	100.00
9.074	9.074	(1.164)	58	12410	10.0000	9.8	3.71- 63.71	33.71
9.070	9.070	(1.163)	100	3907			0.00- 40.61	10.61
51 2-Hexanone						CAS #: 591-78-6		
9.973	9.973	(0.900)	43	24461	10.0000	9.8	70.00- 130.00	100.00
9.971	9.971	(0.900)	58	11237			15.94- 75.94	45.94
52 cis 1,3-Dichloropropene						CAS #: 10061-01-5		
9.272	9.272	(1.189)	75	24966	5.00000	4.7	70.00- 130.00	100.00
9.272	9.272	(1.189)	77	8103			2.46- 62.46	32.46
9.273	9.273	(1.189)	110	4965			0.00- 49.89	19.89
$ 53 TOLUENE d8 (surr)						CAS #: 2037-26-5		
9.528	9.528	(1.222)	98	60527	5.00000	5.0	70.00- 130.00	100.00
9.524	9.524	(1.221)	70	7319			0.00- 42.09	12.09
9.528	9.528	(1.222)	100	37906			32.63- 92.63	62.63

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RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	TARGET RANGE	RATIO
54 Toluene						CAS #: 108-88-3		
9.608	9.608	(1.232)	92	40804	5.00000	5.2	70.00- 130.00	100.00
9.610	9.610	(1.232)	91	69024			139.16- 199.16	169.16
9.609	9.609	(1.232)	65	9638			0.00- 53.62	23.62
55 trans 1,3-Dichloropropene						CAS #: 10061-02-6		
9.794	9.794	(1.256)	75	23432	5.00000	4.8	70.00- 130.00	100.00
9.794	9.794	(1.256)	77	7278			1.06- 61.06	31.06
9.800	9.800	(1.257)	110	5035			0.00- 51.49	21.49
56 Ethyl Methacrylate						CAS #: 97-63-2		
9.794	9.794	(1.256)	69	19574	5.00000	4.7	70.00- 130.00	100.00
9.794	9.794	(1.256)	99	3967			0.00- 50.27	20.27
57 1,1,2-Trichloroethane						CAS #: 79-00-5		
9.956	9.956	(1.277)	97	14147	5.00000	5.0	70.00- 130.00	100.00
9.955	9.955	(1.277)	83	12352			57.31- 117.31	87.31
9.953	9.953	(1.276)	85	8993			33.57- 93.57	63.57
58 1,3-Dichloropropane						CAS #: 142-28-9		
10.214	10.214	(0.922)	76	26741	5.00000	5.0	70.00- 130.00	100.00
10.211	10.211	(0.922)	78	7999			0.00- 59.91	29.91
10.212	10.212	(0.922)	63	2970			0.00- 41.11	11.11
59 Tetrachloroethylene						CAS #: 127-18-4		
10.284	10.284	(0.928)	164	12727	5.00000	5.3	70.00- 130.00	100.00
10.285	10.285	(0.928)	129	11916			63.63- 123.63	93.63
10.284	10.284	(0.928)	166	16129			96.73- 156.73	126.73
60 Dibromochloromethane						CAS #: 124-48-1		
10.483	10.483	(0.946)	129	12845	5.00000	4.7	70.00- 130.00	100.00
10.484	10.484	(0.946)	127	10208			49.47- 109.47	79.47
61 1,2-Dibromoethane						CAS #: 106-93-4		
10.688	10.688	(0.965)	107	13149	5.00000	4.8	70.00- 130.00	100.00
10.690	10.690	(0.965)	109	12957			68.54- 128.54	98.54
62 1-Chlorohexane						CAS #: 544-10-5		
10.858	10.858	(0.980)	91	21126	5.00000	5.1	70.00- 130.00	100.00
10.855	10.855	(0.980)	55	20253			65.87- 125.87	95.87
10.858	10.858	(0.980)	56	11517			24.52- 84.52	54.52
* 63 CHLOROBENZENE d5 (IS)						CAS #: 3114-55-4		
11.077	11.077	(1.000)	117	406231	50.0000		70.00- 130.00	100.00
11.077	11.077	(1.000)	119	132778			2.69- 62.69	32.69
11.076	11.076	(1.000)	82	253183			32.32- 92.32	62.32

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RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	TARGET RANGE	RATIO
64 Chlorobenzene						CAS #: 108-90-7		
11.116	11.116	(1.004)	112	42572	5.00000	5.1	70.00- 130.00	100.00
11.117	11.117	(1.004)	114	13350			1.36- 61.36	31.36
11.116	11.116	(1.003)	77	30581			41.83- 101.83	71.83
65 1,1,1,2-Tetrachloroethane						CAS #: 630-20-6		
11.161	11.161	(1.008)	131	13593	5.00000	5.2	70.00- 130.00	100.00
11.160	11.160	(1.007)	117	11257			52.81- 112.81	82.81
11.156	11.156	(1.007)	95	5906			13.45- 73.45	43.45
66 Ethylbenzene						CAS #: 100-41-4		
11.171	11.171	(1.008)	106	22635	5.00000	5.0	70.00- 130.00	100.00
11.171	11.171	(1.008)	91	76142			306.39- 366.39	336.39
11.169	11.169	(1.008)	77	7346			2.45- 62.45	32.45
67 p,m-Xylene						CAS #: 511-39-00		
11.248	11.248	(1.015)	106	56351	10.0000	10.2	70.00- 130.00	100.00
11.247	11.247	(1.015)	91	124899			191.64- 251.64	221.64
11.247	11.247	(1.015)	105	26743			17.46- 77.46	47.46
68 o-Xylene						CAS #: 95-47-6		
11.690	11.690	(1.055)	91	59279	5.00000	4.9	70.00- 130.00	100.00
11.690	11.690	(1.055)	106	26105			14.04- 74.04	44.04
11.690	11.690	(1.055)	77	6720			0.00- 41.34	11.34
69 Styrene						CAS #: 100-42-5		
11.723	11.723	(1.058)	104	47208	5.00000	5.0	70.00- 130.00	100.00
11.723	11.723	(1.058)	103	25365			23.73- 83.73	53.73
11.722	11.722	(1.058)	78	27379			28.00- 88.00	58.00
70 Bromoform						CAS #: 75-25-2		
12.065	12.065	(1.089)	173	7520	5.00000	5.5	70.00- 130.00	100.00
12.066	12.066	(1.089)	175	3477			16.24- 76.24	46.24
71 1-Methylethylbenzene						CAS #: 98-82-8		
12.052	12.052	(0.892)	105	71687	5.00000	5.1	70.00- 130.00	100.00
12.052	12.052	(0.892)	120	18404			0.00- 55.67	25.67
12.052	12.052	(0.892)	77	13305			0.00- 48.56	18.56
72 1,4-Dichloro-2-Butene						CAS #: 110-57-6		
12.088	12.088	(0.895)	53	4260	10.0000	9.9	70.00- 130.00	100.00
12.090	12.090	(0.895)	75	3243			46.13- 106.13	76.13
12.091	12.091	(0.895)	89	1460			4.27- 64.27	34.27
73 1,1,2,2-Tetrachloroethane						CAS #: 79-34-5		
12.215	12.215	(0.905)	83	18126	5.00000	5.0	70.00- 130.00	100.00

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RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	TARGET RANGE	RATIO
73 1,1,2,2-Tetrachloroethane (continued)								
12.217	12.217	(0.905)	85	11694			34.52- 94.52	64.52
12.217	12.217	(0.905)	133	1438			0.00- 37.93	7.93
$ 74 4-BROMOFLUOROBENZENE (surr)						CAS #: 460-00-4		
12.302	12.302	(0.911)	95	22780	5.00000	5.0	70.00- 130.00	100.00
12.304	12.304	(0.911)	174	15920			39.89- 99.89	69.89
12.306	12.306	(0.911)	176	14868			35.27- 95.27	65.27
75 1,2,3- trichloropropane						CAS #: 96-18-4		
12.365	12.365	(0.916)	75	16531			70.00- 130.00	100.00
12.368	12.368	(0.916)	77	5040			0.49- 60.49	30.49
12.366	12.366	(0.916)	110	5523	5.00000	5.1	3.41- 63.41	33.41
76 n-Propylbenzene						CAS #: 103-65-1		
12.458	12.458	(0.923)	91	87298	5.00000	5.0	70.00- 130.00	100.00
12.458	12.458	(0.923)	92	9410			0.00- 40.78	10.78
12.458	12.458	(0.923)	120	19356			0.00- 52.17	22.17
77 Bromobenzene						CAS #: 108-86-1		
12.503	12.503	(0.926)	77	33935	5.00000	5.0	70.00- 130.00	100.00
12.505	12.505	(0.926)	156	18016			23.09- 83.09	53.09
12.504	12.504	(0.926)	158	16796			19.49- 79.49	49.49
78 1,3,5-Trimethylbenzene						CAS #: 108-67-8		
12.615	12.615	(0.934)	105	61684	5.00000	5.1	70.00- 130.00	100.00
12.615	12.615	(0.934)	120	27912			15.25- 75.25	45.25
12.615	12.615	(0.934)	77	8499			0.00- 43.78	13.78
79 2-Chlorotoluene						CAS #: 95-49-8		
12.639	12.639	(0.936)	91	62929	5.00000	5.1	70.00- 130.00	100.00
12.640	12.640	(0.936)	126	16797			0.00- 56.69	26.69
12.635	12.635	(0.936)	63	11893			0.00- 48.90	18.90
80 4-Chlorotoluene						CAS #: 106-43-4		
12.684	12.684	(0.939)	91	58344	5.00000	5.0	70.00- 130.00	100.00
12.684	12.684	(0.939)	126	16527			0.00- 58.33	28.33
12.684	12.684	(0.939)	63	8009			0.00- 43.73	13.73
81 tert-Butylbenzene						CAS #: 98-06-6		
12.978	12.978	(0.961)	119	57174	5.00000	5.0	70.00- 130.00	100.00
12.977	12.977	(0.961)	91	44907			48.54- 108.54	78.54
12.978	12.978	(0.961)	134	12081			0.00- 51.13	21.13
82 1,2,4-trimethylbenzene						CAS #: 95-63-6		
13.015	13.015	(0.964)	105	59275	5.00000	5.0	70.00- 130.00	100.00

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82 1,2,4-trimethylbenzene (continued)								
13.015	13.015	(0.964)	120	27962			17.17- 77.17	47.17
13.016	13.016	(0.964)	77	9070			0.00- 45.30	15.30
83 sec-Butylbenzene						CAS #: 135-98-8		
13.194	13.194	(0.977)	105	74499	5.00000	5.1	70.00- 130.00	100.00
13.195	13.195	(0.977)	134	14021			0.00- 48.82	18.82
13.191	13.191	(0.977)	91	12703			0.00- 47.05	17.05
84 p-Isopropyltoluene						CAS #: 99-87-6		
13.330	13.330	(0.987)	119	62700	5.00000	5.1	70.00- 130.00	100.00
13.328	13.328	(0.987)	134	15343			0.00- 54.47	24.47
13.329	13.329	(0.987)	91	16037			0.00- 55.58	25.58
85 1,3-Dichlorobenzene						CAS #: 541-73-1		
13.430	13.430	(0.995)	146	33854	5.00000	5.1	70.00- 130.00	100.00
13.430	13.430	(0.995)	148	22261			35.76- 95.76	65.76
13.427	13.427	(0.994)	111	14398			12.53- 72.53	42.53
* 86 1,4-DICHLOROBENZENE-d4 (IS)						CAS #: 3855-82-1		
13.504	13.504	(1.000)	152	214905	50.0000		70.00- 130.00	100.00
13.504	13.504	(1.000)	150	343203			129.70- 189.70	159.70
13.503	13.503	(1.000)	115	138356			34.38- 94.38	64.38
87 1,4-Dichlorobenzene						CAS #: 106-46-7		
13.535	13.535	(1.002)	146	33870	5.00000	5.0	70.00- 130.00	100.00
13.536	13.536	(1.002)	148	22218			35.60- 95.60	65.60
13.535	13.535	(1.002)	111	17223			20.85- 80.85	50.85
88 Benzyl Chloride						CAS #: 100-44-7		
13.650	13.650	(1.011)	91	20086	5.00000	5.1	70.00- 130.00	100.00
13.643	13.643	(1.010)	65	2954			0.00- 44.71	14.71
89 n-Butylbenzene						CAS #: 104-51-8		
13.745	13.745	(1.018)	91	54425	5.00000	4.8	70.00- 130.00	100.00
13.744	13.744	(1.018)	92	30322			25.71- 85.71	55.71
13.746	13.746	(1.018)	134	12944			0.00- 53.78	23.78
90 1,2-Dichlorobenzene						CAS #: 95-50-1		
13.912	13.912	(1.030)	146	30818	5.00000	4.9	70.00- 130.00	100.00
13.915	13.915	(1.030)	148	20768			37.39- 97.39	67.39
13.913	13.913	(1.030)	111	14461			16.92- 76.92	46.92
91 1,2-dibromo-3-chloropropane						CAS #: 96-12-8		
14.598	14.598	(1.081)	75	3179	5.00000	5.2	70.00- 130.00	100.00
14.598	14.598	(1.081)	155	2401			45.53- 105.53	75.53

Data File: \\Vms03\dd\chem\vms03.i\M3082702.b\5PPB.D
Report Date: 26-Sep-2002 08:18

RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	TARGET RANGE	RATIO
91 1,2-dibromo-3-chloropropane (continued)								
14.598	14.598	(1.081)	157	2962			63.17- 123.17	93.17
92 1,2,4-Trichlorobenzene						CAS #: 120-82-1		
15.257	15.257	(1.130)	180	22653	5.00000	5.2	70.00- 130.00	100.00
15.257	15.257	(1.130)	182	20980			62.61- 122.61	92.61
15.256	15.256	(1.130)	145	6722			0.00- 59.67	29.67
93 Hexachlorobutadiene						CAS #: 87-68-3		
15.353	15.353	(1.137)	225	7846			70.00- 130.00	100.00
15.354	15.354	(1.137)	223	5038	5.00000	5.2	34.21- 94.21	64.21
15.354	15.354	(1.137)	227	4872			32.10- 92.10	62.10
94 Naphthalene						CAS #: 91-20-3		
15.440	15.440	(1.143)	128	46113	5.00000	4.6	70.00- 130.00	100.00
15.440	15.440	(1.143)	127	6045			0.00- 43.11	13.11
15.438	15.438	(1.143)	129	5044			0.00- 40.94	10.94
95 1,2,3-trichlorobenzene						CAS #: 87-61-6		
15.608	15.608	(1.156)	180	19499	5.00000	5.0	70.00- 130.00	100.00
15.607	15.607	(1.156)	182	19676			70.91- 130.91	100.91
15.605	15.605	(1.156)	145	6824			5.00- 65.00	35.00

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\Vms03\dd\chem\vms03.i\M3082702.b\5PPB.D
Report Date: 26-Sep-2002 08:18

PEL Laboratories, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vms03.i
Lab File ID: 5PPB.D
Lab Smp Id: 5PPBCAL
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\VMS03\dd\chem\vms03.i\M3082702.b\8260A.m
Misc Info:

Calibration Date: 27-AUG-2002
Calibration Time: 08:53
Client Smp ID: 5PPBCAL
Level: LOW
Sample Type: WATER

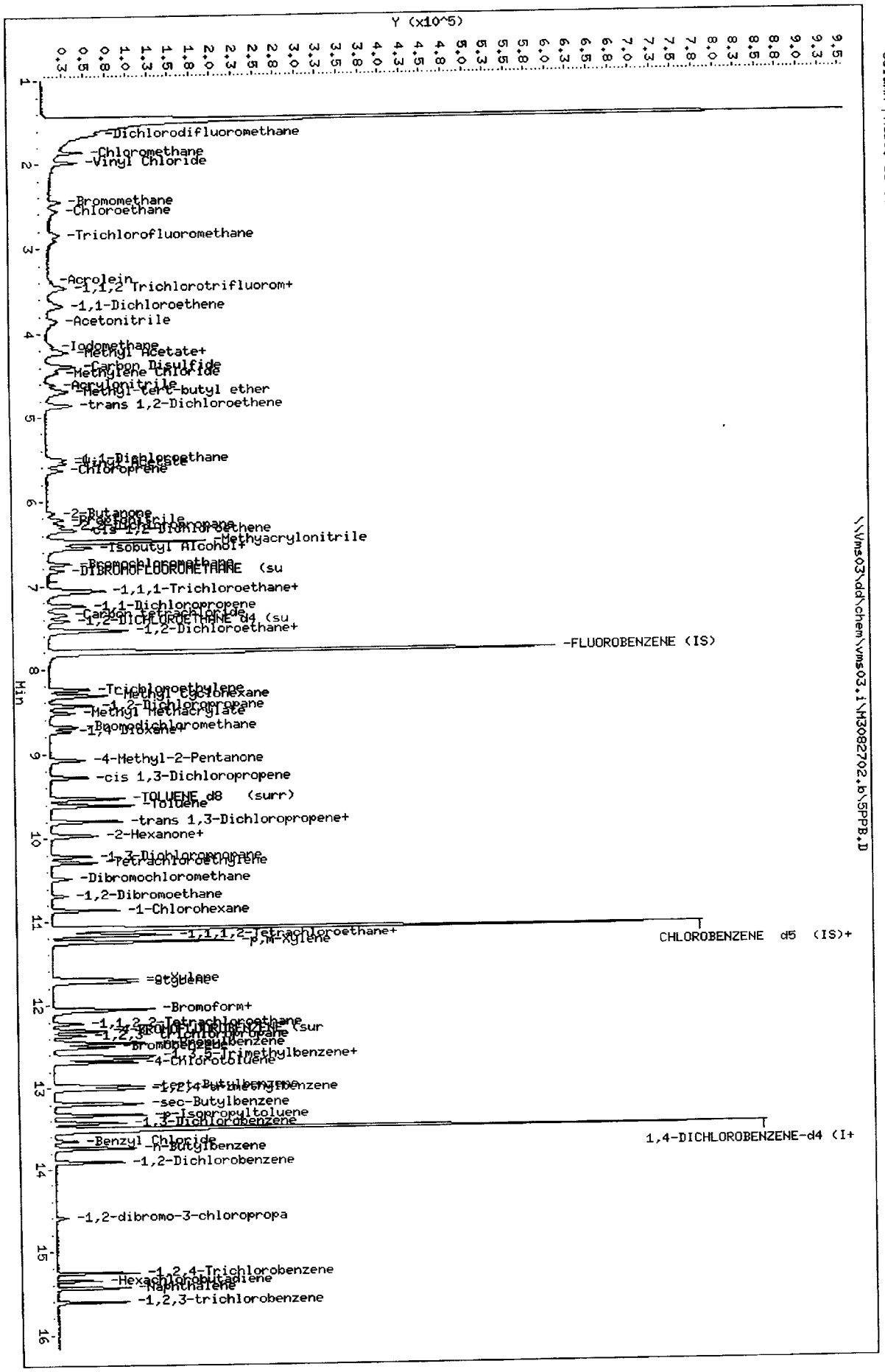
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
42 FLUOROBENZENE (IS	574299	287150	1148598	567261	-1.23
63 CHLOROBENZENE d5	414562	207281	829124	406231	-2.01
86 1,4-DICHLOROBENZE	223111	111556	446222	214905	-3.68

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
42 FLUOROBENZENE (IS	7.80	7.30	8.30	7.80	-0.01
63 CHLOROBENZENE d5	11.08	10.58	11.58	11.08	-0.01
86 1,4-DICHLOROBENZE	13.50	13.00	14.00	13.50	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\Vms03\dd\chem\vms03.i\M3082702.b\5PPB.D
Date : 27-AUG-2002 07:41
Client ID: 5PPBCAL
Sample Info: 5PPBCAL
Purge Volume: 5.0
Column phase: DB-624

Instrument: vms03.i
Operator:
Column diameter: 0.18



Data File: \\Vms03\dd\chem\vms03.i\M3082702.b\10PPB.D
Report Date: 26-Sep-2002 08:19

PEL Laboratories, Inc.

Data file : \\Vms03\dd\chem\vms03.i\M3082702.b\10PPB.D
Lab Smp Id: 10PPBCAL
Inj Date : 27-AUG-2002 08:05
Operator :
Smp Info : 10PPBCAL
Misc Info :
Comment :
Method : \\VMS03\dd\chem\vms03.i\M3082702.b\8260A.m
Meth Date : 26-Sep-2002 08:19 lpelo
Cal Date : 27-AUG-2002 06:54
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP Genie
Target Version: 4.04
Processing Host: PELCOMP01

Client Smp ID: 10PPBCAL
MS Autotune Date: 29-OCT-2001 10:36
Inst ID: vms03.i

Quant Type: ISTD
Cal File: 1PPB.D
Calibration Sample, Level: 4

Compound Sublist: all.sub
Sample Matrix: WATER

Concentration Formula: Amt * DF * Vf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	Final Volume
Vo	5.000	Sample Volume

RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/1)	AMOUNTS ON-COL (ug/1)	TARGET RANGE	RATIO
M 1 1,2-Dichloroethene (Total)						CAS #: 540-59-0		
				77634	20.0000	17.9		
M 2 Xylenes (Total)						CAS #: 1330-20-7		
				209477	30.0000	27.2		
M 3 Trihalomethanes (Total)						CAS #: THM		
				133910	10.0000	35.5		
4 Dichlorodifluoromethane						CAS #: 75-71-8		
1.650	1.650	(0.212)	85	53322	10.0000	10.1	70.00- 130.00	100.00
1.645	1.645	(0.211)	87	16258			0.49- 60.49	30.49
5 Chloromethane						CAS #: 74-87-3		
1.857	1.857	(0.238)	50	61482	10.0000	9.5	70.00- 130.00	100.00

Data File: \\Vms03\dd\chem\vms03.i\M3082702.b\10PPB.D
Report Date: 26-Sep-2002 08:19

RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	TARGET RANGE	RATIO
5 Chloromethane (continued)								
1.856	1.856	(0.238)	52	19582			1.85- 61.85	31.85
6 Vinyl Chloride						CAS #: 75-01-4		
1.982	1.982	(0.254)	62	44976	10.0000	9.8	70.00- 130.00	100.00
1.981	1.981	(0.254)	64	14645			2.56- 62.56	32.56
7 Bromomethane						CAS #: 74-83-9		
2.455	2.455	(0.315)	94	27364			70.00- 130.00	100.00
2.451	2.451	(0.314)	96	23843	10.0000	10.0	57.13- 117.13	87.13
8 Chloroethane						CAS #: 75-00-3		
2.562	2.562	(0.329)	64	29859	10.0000	10.3	70.00- 130.00	100.00
2.567	2.567	(0.329)	66	9139			0.61- 60.61	30.61
9 Trichlorofluoromethane						CAS #: 75-69-4		
2.851	2.851	(0.366)	101	38023	10.0000	9.5	70.00- 130.00	100.00
2.841	2.841	(0.364)	103	25193			36.26- 96.26	66.26
2.842	2.842	(0.364)	66	3787			0.00- 39.96	9.96
10 Acrolein						CAS #: 107-02-8		
3.369	3.369	(0.432)	56	9880	20.0000	17.7	70.00- 130.00	100.00
3.375	3.375	(0.433)	55	8069			51.67- 111.67	81.67
11 1,1,2 Trichlorotrifluoromethane						CAS #: 76-13-1		
3.457	3.457	(0.443)	101	30121	10.0000	9.9	70.00- 130.00	100.00(a)
3.457	3.457	(0.443)	151	21937			42.83- 102.83	72.83
3.456	3.456	(0.443)	103	19661			35.27- 95.27	65.27
12 Acetone						CAS #: 67-64-1		
3.470	3.470	(0.445)	43	25965	20.0000	20.8	70.00- 130.00	100.00
3.470	3.470	(0.445)	58	4131			0.00- 45.91	15.91
13 1,1-Dichloroethene						CAS #: 75-35-4		
3.675	3.675	(0.471)	61	50743	10.0000	8.6	70.00- 130.00	100.00
3.674	3.674	(0.471)	96	23681			16.67- 76.67	46.67
3.679	3.679	(0.472)	98	15660			0.86- 60.86	30.86
14 Acetonitrile						CAS #: 75-05-8		
3.857	3.857	(0.495)	41	51107	100.000	100	70.00- 130.00	100.00(M)
3.852	3.852	(0.494)	40	31304			31.25- 91.25	61.25
3.848	3.848	(0.493)	39	8631			0.00- 46.89	16.89
15 Iodomethane						CAS #: 74-88-4		
4.136	4.136	(0.530)	142	52026	10.0000	9.7	70.00- 130.00	100.00
4.137	4.137	(0.531)	127	20039			8.52- 68.52	38.52

Data File: \\Vms03\dd\chem\vms03.i\M3082702.b\10PPB.D
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RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	TARGET RANGE	RATIO
15 Iodomethane (continued)								
4.128	4.128	(0.529)	141	3252			0.00- 36.25	6.25
16 Methyl Acetate						CAS #: 79-20-9		
4.192	4.192	(0.537)	43	29033	10.0000	9.2		(a)
17 Allyl Chloride						CAS #: 107-05-1		
4.223	4.223	(0.542)	41	51396	10.0000	8.8	70.00- 130.00	100.00
4.223	4.223	(0.542)	39	33800			35.76- 95.76	65.76
4.222	4.222	(0.541)	78	4040			0.00- 37.86	7.86
18 Carbon Disulfide						CAS #: 75-15-0		
4.387	4.387	(0.563)	76	110762	10.0000	9.3	70.00- 130.00	100.00
4.386	4.386	(0.562)	78	9784			0.00- 38.83	8.83
19 Methylene Chloride						CAS #: 75-09-2		
4.463	4.463	(0.572)	84	32213			70.00- 130.00	100.00(M)
4.451	4.451	(0.571)	49	56898	10.0000	8.8	146.63- 206.63	176.63
4.457	4.457	(0.572)	51	16918			22.52- 82.52	52.52
20 Acrylonitrile						CAS #: 107-13-1		
4.612	4.612	(0.591)	53	27823	20.0000	19.8	70.00- 130.00	100.00
4.608	4.608	(0.591)	52	23585			54.77- 114.77	84.77
4.613	4.613	(0.592)	51	10662			8.32- 68.32	38.32
21 Methyl-tert-butyl ether						CAS #: 1634-04-4		
4.687	4.687	(0.601)	73	107968	10.0000	10.0	70.00- 130.00	100.00
4.684	4.684	(0.601)	57	28498			0.00- 56.39	26.39
22 trans 1,2-Dichloroethene						CAS #: 156-60-5		
4.859	4.859	(0.623)	96	27242			70.00- 130.00	100.00
4.858	4.858	(0.623)	61	46943	10.0000	8.8	142.32- 202.32	172.32
4.863	4.863	(0.624)	98	16366			30.08- 90.08	60.08
23 1,1-Dichloroethane						CAS #: 75-34-3		
5.507	5.507	(0.706)	63	60161	10.0000	9.0	70.00- 130.00	100.00
5.507	5.507	(0.706)	65	18422			0.62- 60.62	30.62
5.506	5.506	(0.706)	83	6017			0.00- 40.00	10.00
24 Vinyl Acetate						CAS #: 108-05-4		
5.555	5.555	(0.712)	43	96615	10.0000	10	70.00- 130.00	100.00
5.552	5.552	(0.712)	86	6442			0.00- 36.67	6.67
25 Chloroprene						CAS #: 126-99-8		
5.639	5.639	(0.723)	53	31861	10.0000	8.6	70.00- 130.00	100.00
5.648	5.648	(0.724)	88	14221			14.63- 74.63	44.63

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RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	TARGET RANGE	RATIO
25 Chloroprene (continued)								
5.642	5.642	(0.724)	90	3981			0.00- 42.49	12.49
26 2-Butanone						CAS #: 78-93-3		
6.136	6.136	(0.787)	43	34709	20.0000	19.2	70.00- 130.00	100.00
6.136	6.136	(0.787)	72	5641			0.00- 46.25	16.25
27 Propionitrile						CAS #: 107-12-0		
6.219	6.219	(0.797)	54	51906	100.000	97.3	70.00- 130.00	100.00
6.214	6.214	(0.797)	52	9746			0.00- 48.78	18.78
6.217	6.217	(0.797)	55	7923			0.00- 45.26	15.26
28 2,2-Dichloropropane						CAS #: 594-20-7		
6.286	6.286	(0.806)	77	29739	10.0000	8.8	70.00- 130.00	100.00
6.280	6.280	(0.805)	79	9009			0.29- 60.29	30.29
6.291	6.291	(0.807)	97	5123			0.00- 47.23	17.23
29 cis-1,2-Dichloroethene						CAS #: 156-59-2		
6.345	6.345	(0.814)	96	30691	10.0000	9.1	70.00- 130.00	100.00
6.341	6.341	(0.813)	61	53872			145.53- 205.53	175.53
6.339	6.339	(0.813)	98	19495			33.52- 93.52	63.52
30 Methyacrylonitrile						CAS #: 126-98-7		
6.472	6.472	(0.830)	67	122790	100.000	94.0	70.00- 130.00	100.00
6.472	6.472	(0.830)	66	44100			5.91- 65.91	35.91
6.473	6.473	(0.830)	52	60921			19.61- 79.61	49.61
31 Isobutyl Alcohol						CAS #: 78-83-1		
6.548	6.548	(0.840)	43	33899	200.000	206	70.00- 130.00	100.00
6.551	6.551	(0.840)	42	17868			22.71- 82.71	52.71
6.548	6.548	(0.840)	41	35780			75.55- 135.55	105.55
32 Chloroform						CAS #: 67-66-3		
6.545	6.545	(0.839)	83	56031	10.0000	9.2	70.00- 130.00	100.00
6.548	6.548	(0.840)	85	35322			33.04- 93.04	63.04
6.549	6.549	(0.840)	47	15590			0.00- 57.82	27.82
33 Bromochloromethane						CAS #: 74-97-5		
6.746	6.746	(0.865)	128	13380	10.0000	9.1	70.00- 130.00	100.00
6.741	6.741	(0.864)	49	36618			243.68- 303.68	273.68
6.746	6.746	(0.865)	130	17169			98.32- 158.32	128.32
$ 34 DIBROMOFLUOROMETHANE (surr)						CAS #: 1868-53-7		
6.820	6.820	(0.875)	113	28926	10.0000	10.2	70.00- 130.00	100.00
6.820	6.820	(0.874)	111	28420			68.25- 128.25	98.25
6.818	6.818	(0.874)	192	5272			0.00- 48.23	18.23

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Report Date: 26-Sep-2002 08:19

RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	TARGET	RANGE	RATIO
35 1,1,1-Trichloroethane						CAS #: 71-55-6			
7.049	7.049	(0.904)	97	45116	10.0000	9.2	70.00-	130.00	100.00
7.049	7.049	(0.904)	99	28921			34.10-	94.10	64.10
7.048	7.048	(0.904)	117	4908			0.00-	40.88	10.88
36 Cyclohexane						CAS #: 110-82-7			
7.064	7.064	(0.906)	56	66408	10.0000	8.8	70.00-	130.00	100.00(a)
7.069	7.069	(0.906)	84	45237			38.12-	98.12	68.12
7.068	7.068	(0.906)	41	41991			33.23-	93.23	63.23
37 1,1-Dichloropropene						CAS #: 563-58-6			
7.238	7.238	(0.928)	75	41855	10.0000	9.1	70.00-	130.00	100.00
7.236	7.236	(0.928)	77	12348			0.00-	59.50	29.50
7.236	7.236	(0.928)	110	12785			0.55-	60.55	30.55
38 Carbon tetrachloride						CAS #: 56-23-5			
7.347	7.347	(0.942)	117	33086	10.0000	8.4	70.00-	130.00	100.00
7.348	7.348	(0.942)	119	31677			65.74-	125.74	95.74
7.345	7.345	(0.942)	121	10026			0.30-	60.30	30.30
$ 39 1,2-DICHLOROETHANE d4 (surr)						CAS #: 17060-07-0			
7.422	7.422	(0.952)	102	6581	10.0000	9.6	70.00-	130.00	100.00
7.422	7.422	(0.952)	65	43361			628.88-	688.88	658.88
7.422	7.422	(0.952)	67	21945			303.46-	363.46	333.46
40 1,2-Dichloroethane						CAS #: 107-06-2			
7.530	7.530	(0.966)	62	51213	10.0000	9.1	70.00-	130.00	100.00
7.532	7.532	(0.966)	64	15927			1.10-	61.10	31.10
7.535	7.535	(0.966)	98	3643			0.00-	37.11	7.11
41 Benzene						CAS #: 71-43-2			
7.546	7.546	(0.968)	78	120250	10.0000	8.9	70.00-	130.00	100.00
7.542	7.542	(0.967)	52	25639			0.00-	51.32	21.32
7.544	7.544	(0.967)	77	28028			0.00-	53.31	23.31
* 42 FLUOROBENZENE (IS)						CAS #: 462-06-6			
7.799	7.799	(1.000)	96	565541	50.0000		70.00-	130.00	100.00
7.798	7.798	(1.000)	70	121732			0.00-	51.52	21.52
7.798	7.798	(1.000)	50	85346			0.00-	45.09	15.09
43 Trichloroethylene						CAS #: 79-01-6			
8.247	8.247	(1.057)	130	27440	10.0000	9.0	70.00-	130.00	100.00
8.244	8.244	(1.057)	95	30057			79.54-	139.54	109.54
8.244	8.244	(1.057)	97	19232			40.09-	100.09	70.09
44 Methyl Cyclohexane						CAS #: 108-87-2			
8.319	8.319	(1.067)	83	48729			70.00-	130.00	100.00(a)

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RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	TARGET RANGE	RATIO
44 Methyl Cyclohexane (continued)								
8.319	8.319	(1.067)	55	50856	10.0000	8.7	74.36- 134.36	104.36
8.315	8.315	(1.066)	41	28799			29.10- 89.10	59.10
45 1,2-Dichloropropane						CAS #: 78-87-5		
8.439	8.439	(1.082)	63	34091	10.0000	8.8	70.00- 130.00	100.00
8.438	8.438	(1.082)	62	25532			44.89- 104.89	74.89
8.441	8.441	(1.082)	76	14544			12.66- 72.66	42.66
46 Methyl Methacrylate						CAS #: 80-62-6		
8.522	8.522	(1.093)	69	21346	10.0000	9.4	70.00- 130.00	100.00
8.524	8.524	(1.093)	41	36211			139.64- 199.64	169.64
47 Bromodichloromethane						CAS #: 75-27-4		
8.687	8.687	(1.114)	83	39776	10.0000	8.7	70.00- 130.00	100.00
8.688	8.688	(1.114)	85	26095			35.60- 95.60	65.60
48 1,4 Dioxane						CAS #: 123-91-1		
8.728	8.728	(1.119)	88	5271	200.000	186	70.00- 130.00	100.00
8.722	8.722	(1.118)	58	4380			53.10- 113.10	83.10
8.717	8.717	(1.118)	43	1873			5.53- 65.53	35.53
49 Dibromomethane						CAS #: 74-95-3		
8.738	8.738	(1.120)	93	18014	10.0000	9.2	70.00- 130.00	100.00
8.738	8.738	(1.121)	95	14778			52.04- 112.04	82.04
8.740	8.740	(1.121)	174	16715			62.79- 122.79	92.79
50 4-Methyl-2-Pentanone						CAS #: 108-10-1		
9.068	9.068	(1.163)	43	72611			70.00- 130.00	100.00
9.067	9.067	(1.163)	58	24565	20.0000	19.5	3.83- 63.83	33.83
9.069	9.069	(1.163)	100	7870			0.00- 40.84	10.84
51 2-Hexanone						CAS #: 591-78-6		
9.972	9.972	(0.900)	43	47241	20.0000	18.9	70.00- 130.00	100.00
9.971	9.971	(0.900)	58	22540			17.71- 77.71	47.71
52 cis 1,3-Dichloropropene						CAS #: 10061-01-5		
9.272	9.272	(1.189)	75	45748	10.0000	8.6	70.00- 130.00	100.00
9.273	9.273	(1.189)	77	14848			2.46- 62.46	32.46
9.274	9.274	(1.189)	110	9403			0.00- 50.55	20.55
$ 53 TOLUENE d8 (surr)						CAS #: 2037-26-5		
9.527	9.527	(1.222)	98	119816	10.0000	10	70.00- 130.00	100.00
9.527	9.527	(1.222)	70	13983			0.00- 41.67	11.67
9.527	9.527	(1.222)	100	80366			37.07- 97.07	67.07

Data File: \\Vms03\dd\chem\vms03.i\M3082702.b\10PPB.D
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RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	TARGET RANGE	RATIO
54 Toluene						CAS #: 108-88-3		
9.608	9.608	(1.232)	92	70883	10.0000	9.0	70.00- 130.00	100.00
9.609	9.609	(1.232)	91	119670			138.83- 198.83	168.83
9.608	9.608	(1.232)	65	15964			0.00- 52.52	22.52
55 trans 1,3-Dichloropropene						CAS #: 10061-02-6		
9.794	9.794	(1.256)	75	42248	10.0000	8.7	70.00- 130.00	100.00
9.794	9.794	(1.256)	77	13909			2.92- 62.92	32.92
9.793	9.793	(1.256)	110	9210			0.00- 51.80	21.80
56 Ethyl Methacrylate						CAS #: 97-63-2		
9.794	9.794	(1.256)	69	38720	10.0000	9.4	70.00- 130.00	100.00
9.793	9.793	(1.256)	99	7011			0.00- 48.11	18.11
57 1,1,2-Trichloroethane						CAS #: 79-00-5		
9.954	9.954	(1.276)	97	26337	10.0000	9.4	70.00- 130.00	100.00
9.954	9.954	(1.276)	83	21848			52.96- 112.96	82.96
9.957	9.957	(1.277)	85	17194			35.28- 95.28	65.28
58 1,3-Dichloropropane						CAS #: 142-28-9		
10.213	10.213	(0.922)	76	48973	10.0000	9.1	70.00- 130.00	100.00
10.214	10.214	(0.922)	78	15745			2.15- 62.15	32.15
10.215	10.215	(0.922)	63	5499			0.00- 41.23	11.23
59 Tetrachloroethylene						CAS #: 127-18-4		
10.286	10.286	(0.928)	164	21338	10.0000	8.8	70.00- 130.00	100.00
10.286	10.286	(0.928)	129	20286			65.07- 125.07	95.07
10.287	10.287	(0.929)	166	27131			97.15- 157.15	127.15
60 Dibromochloromethane						CAS #: 124-48-1		
10.483	10.483	(0.946)	129	24424	10.0000	8.9	70.00- 130.00	100.00
10.481	10.481	(0.946)	127	18587			46.10- 106.10	76.10
61 1,2-Dibromoethane						CAS #: 106-93-4		
10.689	10.689	(0.965)	107	24440	10.0000	8.9	70.00- 130.00	100.00
10.688	10.688	(0.965)	109	23651			66.77- 126.77	96.77
62 1-Chlorohexane						CAS #: 544-10-5		
10.859	10.859	(0.980)	91	39769	10.0000	9.5	70.00- 130.00	100.00
10.859	10.859	(0.980)	55	33167			53.40- 113.40	83.40
10.859	10.859	(0.980)	56	19239			18.38- 78.38	48.38
* 63 CHLOROBENZENE d5 (IS)						CAS #: 3114-55-4		
11.079	11.079	(1.000)	117	408198	50.0000		70.00- 130.00	100.00
11.079	11.079	(1.000)	119	128912			1.58- 61.58	31.58
11.078	11.078	(1.000)	82	256005			32.72- 92.72	62.72

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RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	TARGET RANGE	RATIO
64 Chlorobenzene						CAS #: 108-90-7		
11.118	11.118	(1.004)	112	76039	10.0000	9.0	70.00- 130.00	100.00
11.116	11.116	(1.003)	114	25088			2.99- 62.99	32.99
11.117	11.117	(1.003)	77	53788			40.74- 100.74	70.74
65 1,1,1,2-Tetrachloroethane						CAS #: 630-20-6		
11.160	11.160	(1.007)	131	23001	10.0000	8.7	70.00- 130.00	100.00
11.160	11.160	(1.007)	117	18641			51.04- 111.04	81.04
11.161	11.161	(1.007)	95	10396			15.20- 75.20	45.20
66 Ethylbenzene						CAS #: 100-41-4		
11.169	11.169	(1.008)	106	40636	10.0000	9.0	70.00- 130.00	100.00
11.170	11.170	(1.008)	91	135523			303.50- 363.50	333.50
11.171	11.171	(1.008)	77	13575			3.41- 63.41	33.41
67 p,m-Xylene						CAS #: 511-39-00		
11.249	11.249	(1.015)	106	100609	20.0000	18.1	70.00- 130.00	100.00
11.248	11.248	(1.015)	91	216770			185.46- 245.46	215.46
11.248	11.248	(1.015)	105	45511			15.24- 75.24	45.24
68 o-Xylene						CAS #: 95-47-6		
11.690	11.690	(1.055)	91	108868	10.0000	9.0	70.00- 130.00	100.00
11.691	11.691	(1.055)	106	46834			13.02- 73.02	43.02
11.688	11.688	(1.055)	77	13964			0.00- 42.83	12.83
69 Styrene						CAS #: 100-42-5		
11.723	11.723	(1.058)	104	85291	10.0000	9.0	70.00- 130.00	100.00
11.725	11.725	(1.058)	103	47298			25.45- 85.45	55.45
11.723	11.723	(1.058)	78	49669			28.23- 88.23	58.23
70 Bromoform						CAS #: 75-25-2		
12.064	12.064	(1.089)	173	13679	10.0000	8.8	70.00- 130.00	100.00
12.065	12.065	(1.089)	175	6274			15.87- 75.87	45.87
71 1-Methylethylbenzene						CAS #: 98-82-8		
12.052	12.052	(0.893)	105	127387	10.0000	9.0	70.00- 130.00	100.00
12.053	12.053	(0.893)	120	32029			0.00- 55.14	25.14
12.052	12.052	(0.892)	77	24322			0.00- 49.09	19.09
72 1,4-Dichloro-2-Butene						CAS #: 110-57-6		
12.089	12.089	(0.895)	53	10946	20.0000	20.0	70.00- 130.00	100.00
12.090	12.090	(0.895)	75	6518			29.55- 89.55	59.55
12.092	12.092	(0.895)	89	2905			0.00- 56.54	26.54
73 1,1,2,2-Tetrachloroethane						CAS #: 79-34-5		
12.217	12.217	(0.905)	83	34198	10.0000	9.4	70.00- 130.00	100.00

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RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	TARGET RANGE	RATIO
73 1,1,2,2-Tetrachloroethane (continued)								
12.216	12.216	(0.905)	85	22223			34.98- 94.98	64.98
12.219	12.219	(0.905)	133	3049			0.00- 38.92	8.92
$ 74 4-BROMOFLUOROBENZENE (surr)						CAS #: 460-00-4		
12.304	12.304	(0.911)	95	47856	10.0000	10.3	70.00- 130.00	100.00
12.304	12.304	(0.911)	174	32598			38.12- 98.12	68.12
12.307	12.307	(0.911)	176	31669			36.18- 96.18	66.18
75 1,2,3- trichloropropane						CAS #: 96-18-4		
12.366	12.366	(0.916)	75	29687			70.00- 130.00	100.00
12.364	12.364	(0.916)	77	9724			2.76- 62.76	32.76
12.367	12.367	(0.916)	110	10369	10.0000	9.4	4.93- 64.93	34.93
76 n-Propylbenzene						CAS #: 103-65-1		
12.458	12.458	(0.923)	91	157034	10.0000	9.0	70.00- 130.00	100.00
12.456	12.456	(0.922)	92	16332			0.00- 40.40	10.40
12.458	12.458	(0.923)	120	33112			0.00- 51.09	21.09
77 Bromobenzene						CAS #: 108-86-1		
12.504	12.504	(0.926)	77	63355	10.0000	9.3	70.00- 130.00	100.00
12.503	12.503	(0.926)	156	31162			19.19- 79.19	49.19
12.506	12.506	(0.926)	158	31652			19.96- 79.96	49.96
78 1,3,5-Trimethylbenzene						CAS #: 108-67-8		
12.615	12.615	(0.934)	105	111943	10.0000	9.1	70.00- 130.00	100.00
12.615	12.615	(0.934)	120	51447			15.96- 75.96	45.96
12.616	12.616	(0.934)	77	15678			0.00- 44.01	14.01
79 2-Chlorotoluene						CAS #: 95-49-8		
12.639	12.639	(0.936)	91	112582	10.0000	9.1	70.00- 130.00	100.00
12.639	12.639	(0.936)	126	30324			0.00- 56.94	26.94
12.638	12.638	(0.936)	63	21109			0.00- 48.75	18.75
80 4-Chlorotoluene						CAS #: 106-43-4		
12.685	12.685	(0.939)	91	102838	10.0000	8.8	70.00- 130.00	100.00
12.686	12.686	(0.939)	126	30663			0.00- 59.82	29.82
12.683	12.683	(0.939)	63	14444			0.00- 44.05	14.05
81 tert-Butylbenzene						CAS #: 98-06-6		
12.979	12.979	(0.961)	119	104019	10.0000	9.1	70.00- 130.00	100.00
12.977	12.977	(0.961)	91	79213			46.15- 106.15	76.15
12.979	12.979	(0.961)	134	21295			0.00- 50.47	20.47
82 1,2,4-trimethylbenzene						CAS #: 95-63-6		
13.015	13.015	(0.964)	105	110237	10.0000	9.2	70.00- 130.00	100.00

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RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	TARGET RANGE	RATIO
82 1,2,4-trimethylbenzene (continued)								
13.014	13.014	(0.964)	120	47495			13.08- 73.08	43.08
13.013	13.013	(0.964)	77	15584			0.00- 44.14	14.14
83 sec-Butylbenzene						CAS #: 135-98-8		
13.194	13.194	(0.977)	105	133243	10.0000	9.0	70.00- 130.00	100.00
13.195	13.195	(0.977)	134	25649			0.00- 49.25	19.25
13.194	13.194	(0.977)	91	21472			0.00- 46.11	16.11
84 p-Isopropyltoluene						CAS #: 99-87-6		
13.329	13.329	(0.987)	119	113025	10.0000	9.0	70.00- 130.00	100.00
13.331	13.331	(0.987)	134	28188			0.00- 54.94	24.94
13.329	13.329	(0.987)	91	29052			0.00- 55.70	25.70
85 1,3-Dichlorobenzene						CAS #: 541-73-1		
13.430	13.430	(0.995)	146	59411	10.0000	8.8	70.00- 130.00	100.00
13.429	13.429	(0.994)	148	38657			35.07- 95.07	65.07
13.429	13.429	(0.994)	111	26840			15.18- 75.18	45.18
* 86 1,4-DICHLOROBENZENE-d4 (IS)						CAS #: 3855-82-1		
13.504	13.504	(1.000)	152	217214	50.0000		70.00- 130.00	100.00
13.504	13.504	(1.000)	150	351233			131.70- 191.70	161.70
13.503	13.503	(1.000)	115	139518			34.23- 94.23	64.23
87 1,4-Dichlorobenzene						CAS #: 106-46-7		
13.536	13.536	(1.002)	146	62189	10.0000	9.1	70.00- 130.00	100.00
13.537	13.537	(1.002)	148	42991			39.13- 99.13	69.13
13.536	13.536	(1.002)	111	28848			16.39- 76.39	46.39
88 Benzyl Chloride						CAS #: 100-44-7		
13.649	13.649	(1.011)	91	42107	10.0000	8.6	70.00- 130.00	100.00
13.647	13.647	(1.011)	65	5674			0.00- 43.48	13.48
89 n-Butylbenzene						CAS #: 104-51-8		
13.745	13.745	(1.018)	91	102281	10.0000	9.0	70.00- 130.00	100.00
13.744	13.744	(1.018)	92	55066			23.84- 83.84	53.84
13.746	13.746	(1.018)	134	23606			0.00- 53.08	23.08
90 1,2-Dichlorobenzene						CAS #: 95-50-1		
13.914	13.914	(1.030)	146	57700	10.0000	9.1	70.00- 130.00	100.00
13.913	13.913	(1.030)	148	36355			33.01- 93.01	63.01
13.913	13.913	(1.030)	111	25373			13.97- 73.97	43.97
91 1,2-dibromo-3-chloropropane						CAS #: 96-12-8		
14.596	14.596	(1.081)	75	5998	10.0000	8.6	70.00- 130.00	100.00
14.599	14.599	(1.081)	155	4950			52.53- 112.53	82.53

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RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	TARGET RANGE	RATIO
91 1,2-dibromo-3-chloropropane (continued)								
14.602	14.602	(1.081)	157	6347			75.82- 135.82	105.82
92 1,2,4-Trichlorobenzene						CAS #: 120-82-1		
15.258	15.258	(1.130)	180	41319	10.0000	9.4	70.00- 130.00	100.00
15.257	15.257	(1.130)	182	37772			61.42- 121.42	91.42
15.258	15.258	(1.130)	145	13396			2.42- 62.42	32.42
93 Hexachlorobutadiene						CAS #: 87-68-3		
15.354	15.354	(1.137)	225	15309			70.00- 130.00	100.00
15.355	15.355	(1.137)	223	9834	10.0000	10	34.24- 94.24	64.24
15.356	15.356	(1.137)	227	9453			31.75- 91.75	61.75
94 Naphthalene						CAS #: 91-20-3		
15.440	15.440	(1.143)	128	93385	10.0000	9.3	70.00- 130.00	100.00
15.441	15.441	(1.143)	127	12026			0.00- 42.88	12.88
15.442	15.442	(1.143)	129	10422			0.00- 41.16	11.16
95 1,2,3-trichlorobenzene						CAS #: 87-61-6		
15.608	15.608	(1.156)	180	38056	10.0000	9.6	70.00- 130.00	100.00
15.608	15.608	(1.156)	182	35031			62.05- 122.05	92.05
15.607	15.607	(1.156)	145	12297			2.31- 62.31	32.31

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\Vms03\dd\chem\vms03.i\M3082702.b\10PPB.D
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PEL Laboratories, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

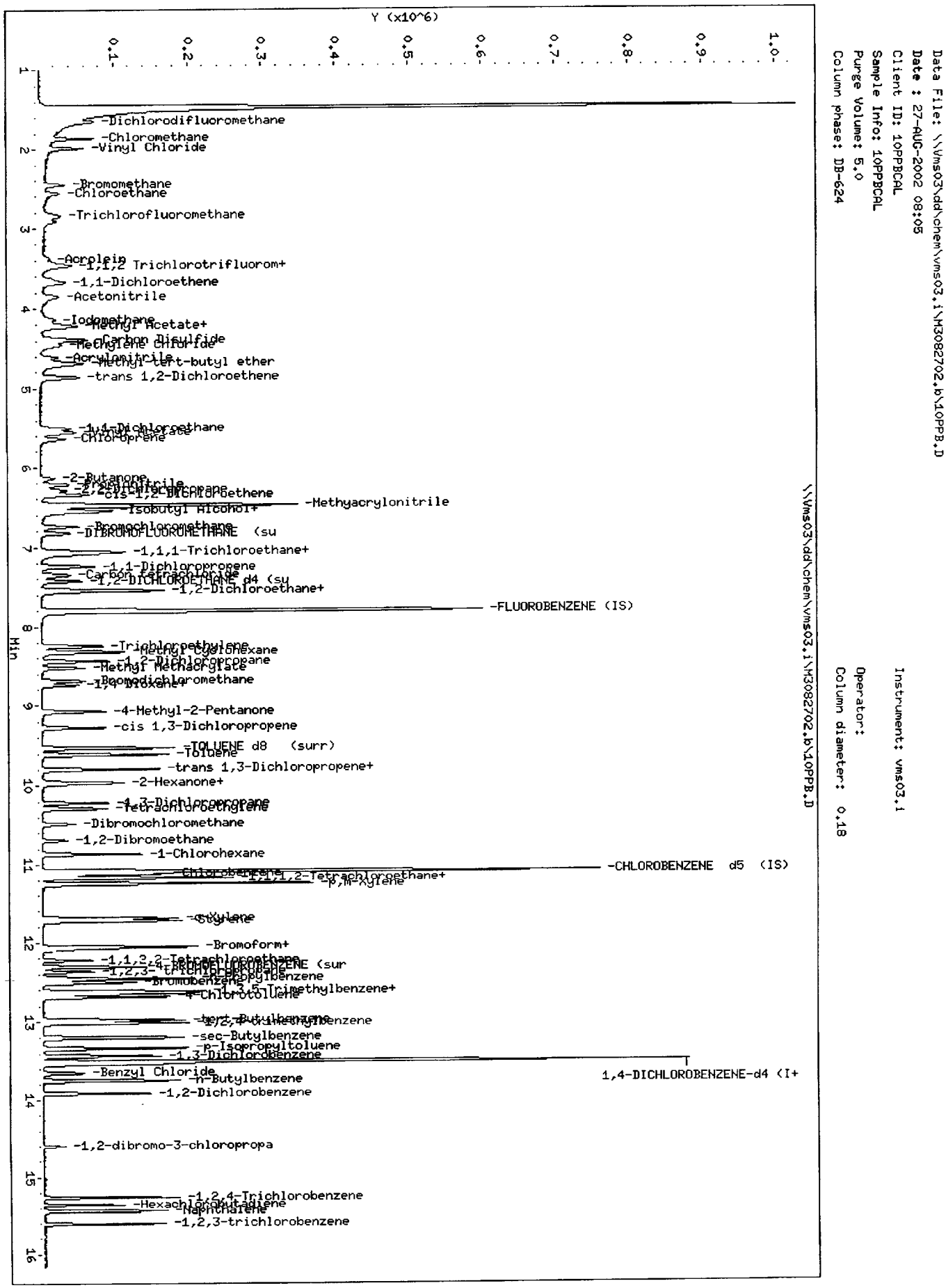
Instrument ID: vms03.i
Lab File ID: 10PPB.D
Lab Smp Id: 10PPBCAL
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\VMS03\dd\chem\vms03.i\M3082702.b\8260A.m
Misc Info:

Calibration Date: 27-AUG-2002
Calibration Time: 08:53
Client Smp ID: 10PPBCAL
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
42 FLUOROBENZENE (IS	574299	287150	1148598	565541	-1.52
63 CHLOROBENZENE d5	414562	207281	829124	408198	-1.54
86 1,4-DICHLOROBENZE	223111	111556	446222	217214	-2.64

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
42 FLUOROBENZENE (IS	7.80	7.30	8.30	7.80	-0.01
63 CHLOROBENZENE d5	11.08	10.58	11.58	11.08	0.00
86 1,4-DICHLOROBENZE	13.50	13.00	14.00	13.50	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.


Data File: \\Vms03\dd\chem\vms03.i\M3082702.b\10PPB.D
Date : 27-AUG-2002 08:05
Client ID: 10PPBCAL
Sample Info: 10PPBCAL
Purge Volume: 5.0
Column phase: DB-624
Instrument: vms03.i
Operator:
Column diameter: 0.18
Y (x10^6)
Min
-Dichlorodifluoromethane
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Trichlorofluoromethane
-Acrolein
-1,1,2 Trichlorotrifluorom+
-1,1-Dichloroethene
-Acetonitrile
-Iodomethane
-Methyl Acetate+
-Carbon Disulfide
-Methylene Chloride
-Acrylonitrile
-Methyl-tert-butyl ether
-trans 1,2-Dichloroethene
-1,1-Dichloroethane
-Vinyl Acetate
-Chloroprene
-2-Butanone
-Propionitrile
-2,2-Dichloropropane
-cis 1,2-Dichloroethene
-Methyacrylonitrile
-Isobutyl Alcohol+
-Bromochloromethane
-DIBROMOFLUOROMETHANE (su
-1,1,1-Trichloroethane+
-1,1-Dichloropropene
-Carbon Tetrachloride
-1,2-DICHLOROETHANE d4 (su
-1,2-Dichloroethane+
-FLUOROBENZENE (IS)
-Trichloroethylene
-Methyl Cyclohexane
-1,2-Dichloropropane
-Methyl Methacrylate
-Bromodichloromethane
-1,4 Dioxane+
-4-Methyl-2-Pentanone
-cis 1,3-Dichloropropene
-TOLUENE d8 (surr)
-Toluene
-trans 1,3-Dichloropropene+
-2-Hexanone+
-1,3-Dichloropropane
-Tetrachloroethylene
-Dibromochloromethane
-1,2-Dibromoethane
-1-Chlorohexane
-CHLOROBENZENE d5 (IS)
-Chlorobenzene
-1,1,1,2-Tetrachloroethane+
-p,m-Xylene
-o-Xylene
-Styrene
-Bromoform+
-1,1,2,2-Tetrachloroethane
-BROMOFLUOROBENZENE (sur
-1,2,3-Trichloropropane
-Isopropylbenzene
-Bromobenzene
-1,3,5-Trimethylbenzene+
-4-Chlorotoluene
-tert-Butylbenzene
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-p-Isopropyltoluene
-1,3-Dichlorobenzene
-Benzyl Chloride
-n-Butylbenzene
1,4-DICHLOROBENZENE-d4 (I+
-1,2-Dichlorobenzene
-1,2-dibromo-3-chloropropa
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-trichlorobenzene
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Data File: \\Vms03\dd\chem\vms03.i\M3082702.b\20PPB.D
Report Date: 26-Sep-2002 08:19

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Data file : \\Vms03\dd\chem\vms03.i\M3082702.b\20PPB.D
Lab Smp Id: 20PPBCAL Client Smp ID: 20PPBCAL
Inj Date : 27-AUG-2002 08:29 MS Autotune Date: 29-OCT-2001 10:36
Operator : Inst ID: vms03.i
Smp Info : 20PPBCAL
Misc Info :
Comment :
Method : \\VMS03\dd\chem\vms03.i\M3082702.b\8260A.m
Meth Date : 26-Sep-2002 08:19 lpelo Quant Type: ISTD
Cal Date : 27-AUG-2002 06:54 Cal File: 1PPB.D
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.04 Sample Matrix: WATER
Processing Host: PELCOMP01

Concentration Formula: Amt * DF * Vf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	Final Volume
Vo	5.000	Sample Volume

	RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	TARGET RANGE	RATIO
M	1 1,2-Dichloroethene (Total)						CAS #: 540-59-0		
					178178	40.0000	40.8		
M	2 Xylenes (Total)						CAS #: 1330-20-7		
					476409	60.0000	61.6		
M	3 Trihalomethanes (Total)						CAS #: THM		
					309138	20.0000	80.9		
	4 Dichlorodifluoromethane						CAS #: 75-71-8		
	1.643	1.643	(0.211)	85	103006	20.0000	19.5	70.00- 130.00	100.00
	1.644	1.644	(0.211)	87	33898			2.91- 62.91	32.91
	5 Chloromethane						CAS #: 74-87-3		
	1.858	1.858	(0.238)	50	122528	20.0000	18.9	70.00- 130.00	100.00

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RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	TARGET RANGE	RATIO
5 Chloromethane (continued)								
1.858	1.858	(0.238)	52	37799			0.85- 60.85	30.85
6 Vinyl Chloride						CAS #: 75-01-4		
1.979	1.979	(0.254)	62	86467	20.0000	18.7	70.00- 130.00	100.00
1.979	1.979	(0.254)	64	27593			1.91- 61.91	31.91
7 Bromomethane						CAS #: 74-83-9		
2.456	2.456	(0.315)	94	51406			70.00- 130.00	100.00
2.452	2.452	(0.314)	96	47021	20.0000	19.7	61.47- 121.47	91.47
8 Chloroethane						CAS #: 75-00-3		
2.560	2.560	(0.328)	64	57199	20.0000	19.7	70.00- 130.00	100.00
2.568	2.568	(0.329)	66	17826			1.16- 61.16	31.16
9 Trichlorofluoromethane						CAS #: 75-69-4		
2.851	2.851	(0.366)	101	77019	20.0000	19.2	70.00- 130.00	100.00
2.852	2.852	(0.366)	103	50677			35.80- 95.80	65.80
2.841	2.841	(0.364)	66	11136			0.00- 44.46	14.46
10 Acrolein						CAS #: 107-02-8		
3.370	3.370	(0.432)	56	23648	40.0000	42.1	70.00- 130.00	100.00
3.369	3.369	(0.432)	55	16604			40.21- 100.21	70.21
11 1,1,2 Trichlorotrifluoromethane						CAS #: 76-13-1		
3.457	3.457	(0.443)	101	61552	20.0000	20.1	70.00- 130.00	100.00
3.463	3.463	(0.444)	151	48202			48.31- 108.31	78.31
3.453	3.453	(0.443)	103	38076			31.86- 91.86	61.86
12 Acetone						CAS #: 67-64-1		
3.468	3.468	(0.445)	43	48295	40.0000	38.6	70.00- 130.00	100.00
3.466	3.466	(0.444)	58	13317			0.00- 57.57	27.57
13 1,1-Dichloroethene						CAS #: 75-35-4		
3.673	3.673	(0.471)	61	119302	20.0000	20.0	70.00- 130.00	100.00
3.669	3.669	(0.471)	96	56988			17.77- 77.77	47.77
3.669	3.669	(0.471)	98	34829			0.00- 59.19	29.19
14 Acetonitrile						CAS #: 75-05-8		
3.854	3.854	(0.494)	41	105562	200.000	207	70.00- 130.00	100.00(M)
3.850	3.850	(0.494)	40	51360			18.65- 78.65	48.65
3.846	3.846	(0.493)	39	20362			0.00- 49.29	19.29
15 Iodomethane						CAS #: 74-88-4		
4.141	4.141	(0.531)	142	105931	20.0000	19.7	70.00- 130.00	100.00
4.137	4.137	(0.531)	127	43056			10.65- 70.65	40.65

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RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	TARGET RANGE	RATIO
15 Iodomethane (continued)								
4.140	4.140	(0.531)	141	13425			0.00- 42.67	12.67
16 Methyl Acetate						CAS #: 79-20-9		
4.193	4.193	(0.538)	43	62915	20.0000	19.9		
17 Allyl Chloride						CAS #: 107-05-1		
4.219	4.219	(0.541)	41	119078	20.0000	20.2	70.00- 130.00	100.00
4.222	4.222	(0.541)	39	75171			33.13- 93.13	63.13
4.225	4.225	(0.542)	78	9105			0.00- 37.65	7.65
18 Carbon Disulfide						CAS #: 75-15-0		
4.383	4.383	(0.562)	76	228689	20.0000	19.2	70.00- 130.00	100.00
4.384	4.384	(0.562)	78	20846			0.00- 39.12	9.12
19 Methylene Chloride						CAS #: 75-09-2		
4.458	4.458	(0.572)	84	70837			70.00- 130.00	100.00
4.457	4.457	(0.572)	49	122885	20.0000	19.0	143.48- 203.48	173.48
4.456	4.456	(0.571)	51	37390			22.78- 82.78	52.78
20 Acrylonitrile						CAS #: 107-13-1		
4.605	4.605	(0.591)	53	54637	40.0000	38.8	70.00- 130.00	100.00
4.604	4.604	(0.590)	52	50049			61.60- 121.60	91.60
4.607	4.607	(0.591)	51	24403			14.66- 74.66	44.66
21 Methyl-tert-butyl ether						CAS #: 1634-04-4		
4.683	4.683	(0.601)	73	204938	20.0000	19.0	70.00- 130.00	100.00
4.681	4.681	(0.600)	57	55863			0.00- 57.26	27.26
22 trans 1,2-Dichloroethene						CAS #: 156-60-5		
4.861	4.861	(0.623)	96	60602			70.00- 130.00	100.00
4.859	4.859	(0.623)	61	108373	20.0000	20.2	148.83- 208.83	178.83
4.861	4.861	(0.623)	98	40237			36.40- 96.40	66.40
23 1,1-Dichloroethane						CAS #: 75-34-3		
5.505	5.505	(0.706)	63	138343	20.0000	20.6	70.00- 130.00	100.00
5.507	5.507	(0.706)	65	41588			0.06- 60.06	30.06
5.506	5.506	(0.706)	83	15526			0.00- 41.22	11.22
24 Vinyl Acetate						CAS #: 108-05-4		
5.554	5.554	(0.712)	43	193608	20.0000	19.9	70.00- 130.00	100.00
5.561	5.561	(0.713)	86	13131			0.00- 36.78	6.78
25 Chloroprene						CAS #: 126-99-8		
5.641	5.641	(0.723)	53	76934	20.0000	20.6	70.00- 130.00	100.00
5.638	5.638	(0.723)	88	32561			12.32- 72.32	42.32

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RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	TARGET RANGE	RATIO
25 Chloroprene (continued)								
5.646	5.646	(0.724)	90	9503			0.00- 42.35	12.35
26 2-Butanone						CAS #: 78-93-3		
6.134	6.134	(0.787)	43	69535	40.0000	38.4	70.00- 130.00	100.00
6.133	6.133	(0.786)	72	13477			0.00- 49.38	19.38
27 Propionitrile						CAS #: 107-12-0		
6.212	6.212	(0.797)	54	112197	200.000	209	70.00- 130.00	100.00
6.211	6.211	(0.796)	52	22733			0.00- 50.26	20.26
6.213	6.213	(0.797)	55	18017			0.00- 46.06	16.06
28 2,2-Dichloropropane						CAS #: 594-20-7		
6.289	6.289	(0.806)	77	66423	20.0000	19.5	70.00- 130.00	100.00
6.288	6.288	(0.806)	79	20162			0.35- 60.35	30.35
6.289	6.289	(0.806)	97	11443			0.00- 47.23	17.23
29 cis-1,2-Dichloroethene						CAS #: 156-59-2		
6.340	6.340	(0.813)	96	69805	20.0000	20.6	70.00- 130.00	100.00
6.341	6.341	(0.813)	61	120253			142.27- 202.27	172.27
6.345	6.345	(0.814)	98	42771			31.27- 91.27	61.27
30 Methyacrylonitrile						CAS #: 126-98-7		
6.473	6.473	(0.830)	67	266290	200.000	203	70.00- 130.00	100.00
6.472	6.472	(0.830)	66	99667			7.43- 67.43	37.43
6.472	6.472	(0.830)	52	135097			20.73- 80.73	50.73
31 Isobutyl Alcohol						CAS #: 78-83-1		
6.547	6.547	(0.839)	43	69487	400.000	420	70.00- 130.00	100.00
6.542	6.542	(0.839)	42	43816			33.06- 93.06	63.06
6.542	6.542	(0.839)	41	72811			74.78- 134.78	104.78
32 Chloroform						CAS #: 67-66-3		
6.549	6.549	(0.840)	83	123169	20.0000	20.1	70.00- 130.00	100.00
6.550	6.550	(0.840)	85	80615			35.45- 95.45	65.45
6.546	6.546	(0.839)	47	36506			0.00- 59.64	29.64
33 Bromochloromethane						CAS #: 74-97-5		
6.744	6.744	(0.865)	128	29538	20.0000	20.0	70.00- 130.00	100.00
6.743	6.743	(0.865)	49	80987			244.18- 304.18	274.18
6.744	6.744	(0.865)	130	39027			102.12- 162.12	132.12
$ 34 DIBROMOFLUOROMETHANE (surr)						CAS #: 1868-53-7		
6.819	6.819	(0.874)	113	57708	20.0000	20.2	70.00- 130.00	100.00
6.819	6.819	(0.874)	111	57709			70.00- 130.00	100.00
6.821	6.821	(0.875)	192	10603			0.00- 48.37	18.37

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RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	TARGET RANGE	RATIO
35 1,1,1-Trichloroethane						CAS #: 71-55-6		
7.045	7.045	(0.903)	97	102445	20.0000	20.7	70.00- 130.00	100.00
7.047	7.047	(0.904)	99	63518			32.00- 92.00	62.00
7.049	7.049	(0.904)	117	10709			0.00- 40.45	10.45
36 Cyclohexane						CAS #: 110-82-7		
7.065	7.065	(0.906)	56	154678	20.0000	20.4	70.00- 130.00	100.00
7.063	7.063	(0.906)	84	108370			40.06- 100.06	70.06
7.064	7.064	(0.906)	41	94629			31.18- 91.18	61.18
37 1,1-Dichloropropene						CAS #: 563-58-6		
7.238	7.238	(0.928)	75	91964	20.0000	19.8	70.00- 130.00	100.00
7.239	7.239	(0.928)	77	28527			1.02- 61.02	31.02
7.240	7.240	(0.928)	110	28500			0.99- 60.99	30.99
38 Carbon tetrachloride						CAS #: 56-23-5		
7.348	7.348	(0.942)	117	77021	20.0000	19.4	70.00- 130.00	100.00
7.349	7.349	(0.942)	119	76685			69.56- 129.56	99.56
7.345	7.345	(0.942)	121	22583			0.00- 59.32	29.32
$ 39 1,2-DICHLOROETHANE d4 (surr)						CAS #: 17060-07-0		
7.424	7.424	(0.952)	102	14484	20.0000	21.0	70.00- 130.00	100.00
7.423	7.423	(0.952)	65	87561			574.54- 634.54	604.54
7.423	7.423	(0.952)	67	43558			270.73- 330.73	300.73
40 1,2-Dichloroethane						CAS #: 107-06-2		
7.532	7.532	(0.966)	62	116518	20.0000	20.6	70.00- 130.00	100.00
7.533	7.533	(0.966)	64	35615			0.57- 60.57	30.57
7.534	7.534	(0.966)	98	7236			0.00- 36.21	6.21
41 Benzene						CAS #: 71-43-2		
7.545	7.545	(0.967)	78	269770	20.0000	19.8	70.00- 130.00	100.00
7.541	7.541	(0.967)	52	56940			0.00- 51.11	21.11
7.543	7.543	(0.967)	77	63979			0.00- 53.72	23.72
* 42 FLUOROBENZENE (IS)						CAS #: 462-06-6		
7.799	7.799	(1.000)	96	568230	50.0000		70.00- 130.00	100.00
7.798	7.798	(1.000)	70	123086			0.00- 51.66	21.66
7.798	7.798	(1.000)	50	86228			0.00- 45.17	15.17
43 Trichloroethylene						CAS #: 79-01-6		
8.244	8.244	(1.057)	130	63090	20.0000	20.5	70.00- 130.00	100.00
8.244	8.244	(1.057)	95	66480			75.37- 135.37	105.37
8.243	8.243	(1.057)	97	44618			40.72- 100.72	70.72
44 Methyl Cyclohexane						CAS #: 108-87-2		
8.318	8.318	(1.067)	83	118222			70.00- 130.00	100.00

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RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	TARGET RANGE	RATIO
44 Methyl Cyclohexane (continued)								
8.318	8.318	(1.067)	55	116097	20.0000	19.7	68.20- 128.20	98.20
8.316	8.316	(1.066)	41	65902			25.74- 85.74	55.74
45 1,2-Dichloropropane						CAS #: 78-87-5		
8.439	8.439	(1.082)	63	80580	20.0000	20.8	70.00- 130.00	100.00
8.440	8.440	(1.082)	62	57536			41.40- 101.40	71.40
8.438	8.438	(1.082)	76	34592			12.93- 72.93	42.93
46 Methyl Methacrylate						CAS #: 80-62-6		
8.522	8.522	(1.093)	69	47966	20.0000	21.0	70.00- 130.00	100.00
8.522	8.522	(1.093)	41	79433			135.60- 195.60	165.60
47 Bromodichloromethane						CAS #: 75-27-4		
8.686	8.686	(1.114)	83	94252	20.0000	20.4	70.00- 130.00	100.00
8.688	8.688	(1.114)	85	60059			33.72- 93.72	63.72
48 1,4 Dioxane						CAS #: 123-91-1		
8.725	8.725	(1.119)	88	11881	400.000	418	70.00- 130.00	100.00
8.722	8.722	(1.118)	58	10275			56.48- 116.48	86.48
8.722	8.722	(1.118)	43	4374			6.82- 66.82	36.82
49 Dibromomethane						CAS #: 74-95-3		
8.737	8.737	(1.120)	93	40313	20.0000	20.5	70.00- 130.00	100.00
8.738	8.738	(1.120)	95	33389			52.82- 112.82	82.82
8.738	8.738	(1.120)	174	36783			61.24- 121.24	91.24
50 4-Methyl-2-Pentanone						CAS #: 108-10-1		
9.068	9.068	(1.163)	43	146885			70.00- 130.00	100.00
9.069	9.069	(1.163)	58	53012	40.0000	41.9	6.09- 66.09	36.09
9.069	9.069	(1.163)	100	15726			0.00- 40.71	10.71
51 2-Hexanone						CAS #: 591-78-6		
9.970	9.970	(0.900)	43	101568	40.0000	40.7	70.00- 130.00	100.00
9.970	9.970	(0.900)	58	50537			19.76- 79.76	49.76
52 cis 1,3-Dichloropropene						CAS #: 10061-01-5		
9.272	9.272	(1.189)	75	112268	20.0000	21.1	70.00- 130.00	100.00
9.274	9.274	(1.189)	77	35784			1.87- 61.87	31.87
9.272	9.272	(1.189)	110	22391			0.00- 49.94	19.94
$ 53 TOLUENE d8 (surr)						CAS #: 2037-26-5		
9.527	9.527	(1.222)	98	244930	20.0000	20.3	70.00- 130.00	100.00
9.528	9.528	(1.222)	70	28072			0.00- 41.46	11.46
9.528	9.528	(1.222)	100	160077			35.36- 95.36	65.36

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RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	TARGET RANGE	RATIO
54 Toluene						CAS #: 108-88-3		
9.609	9.609	(1.232)	92	160592	20.0000	20.2	70.00- 130.00	100.00
9.609	9.609	(1.232)	91	270450			138.41- 198.41	168.41
9.608	9.608	(1.232)	65	35541			0.00- 52.13	22.13
55 trans 1,3-Dichloropropene						CAS #: 10061-02-6		
9.794	9.794	(1.256)	75	103684	20.0000	21.3	70.00- 130.00	100.00
9.794	9.794	(1.256)	77	32630			1.47- 61.47	31.47
9.793	9.793	(1.256)	110	21108			0.00- 50.36	20.36
56 Ethyl Methacrylate						CAS #: 97-63-2		
9.794	9.794	(1.256)	69	88660	20.0000	21.3	70.00- 130.00	100.00
9.793	9.793	(1.256)	99	16591			0.00- 48.71	18.71
57 1,1,2-Trichloroethane						CAS #: 79-00-5		
9.955	9.955	(1.277)	97	57665	20.0000	20.5	70.00- 130.00	100.00
9.954	9.954	(1.276)	83	50752			58.01- 118.01	88.01
9.955	9.955	(1.276)	85	39431			38.38- 98.38	68.38
58 1,3-Dichloropropane						CAS #: 142-28-9		
10.214	10.214	(0.922)	76	109745	20.0000	20.4	70.00- 130.00	100.00
10.213	10.213	(0.922)	78	36153			2.94- 62.94	32.94
10.212	10.212	(0.922)	63	12614			0.00- 41.49	11.49
59 Tetrachloroethylene						CAS #: 127-18-4		
10.284	10.284	(0.928)	164	49121	20.0000	20.3	70.00- 130.00	100.00
10.284	10.284	(0.928)	129	47178			66.04- 126.04	96.04
10.286	10.286	(0.928)	166	61470			95.14- 155.14	125.14
60 Dibromochloromethane						CAS #: 124-48-1		
10.482	10.482	(0.946)	129	58451	20.0000	21.2	70.00- 130.00	100.00
10.481	10.481	(0.946)	127	44375			45.92- 105.92	75.92
61 1,2-Dibromoethane						CAS #: 106-93-4		
10.688	10.688	(0.965)	107	57234	20.0000	20.8	70.00- 130.00	100.00
10.689	10.689	(0.965)	109	53874			64.13- 124.13	94.13
62 1-Chlorohexane						CAS #: 544-10-5		
10.858	10.858	(0.980)	91	84855	20.0000	20.2	70.00- 130.00	100.00
10.858	10.858	(0.980)	55	80981			65.43- 125.43	95.43
10.858	10.858	(0.980)	56	48128			26.72- 86.72	56.72
* 63 CHLOROBENZENE d5 (IS)						CAS #: 3114-55-4		
11.078	11.078	(1.000)	117	408955	50.0000		70.00- 130.00	100.00
11.078	11.078	(1.000)	119	130145			1.82- 61.82	31.82
11.077	11.077	(1.000)	82	253069			31.88- 91.88	61.88

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RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	TARGET RANGE	RATIO
64 Chlorobenzene						CAS #: 108-90-7		
11.117	11.117	(1.004)	112	170377	20.0000	20.2	70.00- 130.00	100.00
11.117	11.117	(1.003)	114	54714			2.11- 62.11	32.11
11.116	11.116	(1.003)	77	120739			40.87- 100.87	70.87
65 1,1,1,2-Tetrachloroethane						CAS #: 630-20-6		
11.159	11.159	(1.007)	131	53952	20.0000	20.4	70.00- 130.00	100.00
11.159	11.159	(1.007)	117	39645			43.48- 103.48	73.48
11.158	11.158	(1.007)	95	24216			14.88- 74.88	44.88
66 Ethylbenzene						CAS #: 100-41-4		
11.172	11.172	(1.008)	106	90271	20.0000	20.0	70.00- 130.00	100.00
11.171	11.171	(1.008)	91	306828			309.90- 369.90	339.90
11.171	11.171	(1.008)	77	29477			2.65- 62.65	32.65
67 p,m-Xylene						CAS #: 511-39-00		
11.248	11.248	(1.015)	106	228822	40.0000	41.2	70.00- 130.00	100.00
11.248	11.248	(1.015)	91	497866			187.58- 247.58	217.58
11.248	11.248	(1.015)	105	105027			15.90- 75.90	45.90
68 o-Xylene						CAS #: 95-47-6		
11.690	11.690	(1.055)	91	247587	20.0000	20.5	70.00- 130.00	100.00
11.690	11.690	(1.055)	106	109119			14.07- 74.07	44.07
11.689	11.689	(1.055)	77	29632			0.00- 41.97	11.97
69 Styrene						CAS #: 100-42-5		
11.723	11.723	(1.058)	104	193793	20.0000	20.5	70.00- 130.00	100.00
11.723	11.723	(1.058)	103	105543			24.46- 84.46	54.46
11.723	11.723	(1.058)	78	116919			30.33- 90.33	60.33
70 Bromoform						CAS #: 75-25-2		
12.064	12.064	(1.089)	173	33266	20.0000	19.1	70.00- 130.00	100.00
12.064	12.064	(1.089)	175	15838			17.61- 77.61	47.61
71 1-Methylethylbenzene						CAS #: 98-82-8		
12.052	12.052	(0.892)	105	291564	20.0000	20.4	70.00- 130.00	100.00
12.052	12.052	(0.892)	120	74014			0.00- 55.39	25.39
12.052	12.052	(0.892)	77	55991			0.00- 49.20	19.20
72 1,4-Dichloro-2-Butene						CAS #: 110-57-6		
12.090	12.090	(0.895)	53	23067	40.0000	38.0	70.00- 130.00	100.00
12.091	12.091	(0.895)	75	16860			43.09- 103.09	73.09
12.091	12.091	(0.895)	89	7351			1.87- 61.87	31.87
73 1,1,2,2-Tetrachloroethane						CAS #: 79-34-5		
12.217	12.217	(0.905)	83	76527	20.0000	20.8	70.00- 130.00	100.00

Data File: \\Vms03\dd\chem\vms03.i\M3082702.b\20PPB.D
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RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	TARGET RANGE	RATIO
73 1,1,2,2-Tetrachloroethane (continued)								
12.218	12.218	(0.905)	85	48197			32.98- 92.98	62.98
12.221	12.221	(0.905)	133	6367			0.00- 38.32	8.32
$ 74 4-BROMOFLUOROBENZENE (surr)						CAS #: 460-00-4		
12.303	12.303	(0.911)	95	93041	20.0000	19.8	70.00- 130.00	100.00
12.304	12.304	(0.911)	174	65208			40.09- 100.09	70.09
12.305	12.305	(0.911)	176	62050			36.69- 96.69	66.69
75 1,2,3- trichloropropane						CAS #: 96-18-4		
12.366	12.366	(0.916)	75	66614			70.00- 130.00	100.00
12.363	12.363	(0.916)	77	20639			0.98- 60.98	30.98
12.367	12.367	(0.916)	110	23456	20.0000	21.0	5.21- 65.21	35.21
76 n-Propylbenzene						CAS #: 103-65-1		
12.458	12.458	(0.922)	91	364367	20.0000	20.5	70.00- 130.00	100.00
12.455	12.455	(0.922)	92	39441			0.00- 40.82	10.82
12.457	12.457	(0.922)	120	76241			0.00- 50.92	20.92
77 Bromobenzene						CAS #: 108-86-1		
12.503	12.503	(0.926)	77	139996	20.0000	20.3	70.00- 130.00	100.00
12.504	12.504	(0.926)	156	71612			21.15- 81.15	51.15
12.504	12.504	(0.926)	158	70466			20.33- 80.33	50.33
78 1,3,5-Trimethylbenzene						CAS #: 108-67-8		
12.616	12.616	(0.934)	105	257353	20.0000	20.7	70.00- 130.00	100.00
12.616	12.616	(0.934)	120	117686			15.73- 75.73	45.73
12.615	12.615	(0.934)	77	35641			0.00- 43.85	13.85
79 2-Chlorotoluene						CAS #: 95-49-8		
12.638	12.638	(0.936)	91	246916	20.0000	19.7	70.00- 130.00	100.00
12.641	12.641	(0.936)	126	68695			0.00- 57.82	27.82
12.638	12.638	(0.936)	63	47852			0.00- 49.38	19.38
80 4-Chlorotoluene						CAS #: 106-43-4		
12.685	12.685	(0.939)	91	246863	20.0000	20.8	70.00- 130.00	100.00
12.686	12.686	(0.939)	126	67601			0.00- 57.38	27.38
12.685	12.685	(0.939)	63	32283			0.00- 43.08	13.08
81 tert-Butylbenzene						CAS #: 98-06-6		
12.978	12.978	(0.961)	119	235488	20.0000	20.4	70.00- 130.00	100.00
12.978	12.978	(0.961)	91	182307			47.42- 107.42	77.42
12.978	12.978	(0.961)	134	47283			0.00- 50.08	20.08
82 1,2,4-trimethylbenzene						CAS #: 95-63-6		
13.015	13.015	(0.964)	105	248850	20.0000	20.4	70.00- 130.00	100.00

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Report Date: 26-Sep-2002 08:19

RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	TARGET RANGE	RATIO
82 1,2,4-trimethylbenzene (continued)								
13.016	13.016	(0.964)	120	110321			14.33- 74.33	44.33
13.015	13.015	(0.964)	77	34234			0.00- 43.76	13.76
83 sec-Butylbenzene						CAS #: 135-98-8		
13.194	13.194	(0.977)	105	302477	20.0000	20.2	70.00- 130.00	100.00
13.194	13.194	(0.977)	134	54814			0.00- 48.12	18.12
13.194	13.194	(0.977)	91	50566			0.00- 46.72	16.72
84 p-Isopropyltoluene						CAS #: 99-87-6		
13.331	13.331	(0.987)	119	259465	20.0000	20.4	70.00- 130.00	100.00
13.332	13.332	(0.987)	134	64895			0.00- 55.01	25.01
13.330	13.330	(0.987)	91	66836			0.00- 55.76	25.76
85 1,3-Dichlorobenzene						CAS #: 541-73-1		
13.431	13.431	(0.995)	146	134937	20.0000	19.8	70.00- 130.00	100.00
13.431	13.431	(0.995)	148	88961			35.93- 95.93	65.93
13.430	13.430	(0.994)	111	61668			15.70- 75.70	45.70
* 86 1,4-DICHLOROBENZENE-d4 (IS)						CAS #: 3855-82-1		
13.504	13.504	(1.000)	152	220008	50.0000		70.00- 130.00	100.00
13.504	13.504	(1.000)	150	363969			135.43- 195.43	165.43
13.503	13.503	(1.000)	115	141440			34.29- 94.29	64.29
87 1,4-Dichlorobenzene						CAS #: 106-46-7		
13.537	13.537	(1.002)	146	139016	20.0000	20.1	70.00- 130.00	100.00
13.537	13.537	(1.002)	148	91994			36.18- 96.18	66.18
13.534	13.534	(1.002)	111	61101			13.95- 73.95	43.95
88 Benzyl Chloride						CAS #: 100-44-7		
13.650	13.650	(1.011)	91	106273	20.0000	18.4	70.00- 130.00	100.00
13.648	13.648	(1.011)	65	14751			0.00- 43.88	13.88
89 n-Butylbenzene						CAS #: 104-51-8		
13.744	13.744	(1.018)	91	234084	20.0000	20.4	70.00- 130.00	100.00
13.744	13.744	(1.018)	92	129749			25.43- 85.43	55.43
13.745	13.745	(1.018)	134	55541			0.00- 53.73	23.73
90 1,2-Dichlorobenzene						CAS #: 95-50-1		
13.913	13.913	(1.030)	146	129405	20.0000	20.2	70.00- 130.00	100.00
13.913	13.913	(1.030)	148	82823			34.00- 94.00	64.00
13.912	13.912	(1.030)	111	58693			15.36- 75.36	45.36
91 1,2-dibromo-3-chloropropane						CAS #: 96-12-8		
14.600	14.600	(1.081)	75	15202	20.0000	19.7	70.00- 130.00	100.00
14.600	14.600	(1.081)	155	11258			44.06- 104.06	74.06

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RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	TARGET RANGE	RATIO
91 1,2-dibromo-3-chloropropane (continued)								
14.600	14.600	(1.081)	157	13615			59.56- 119.56	89.56
92 1,2,4-Trichlorobenzene						CAS #: 120-82-1		
15.257	15.257	(1.130)	180	91282	20.0000	20.4	70.00- 130.00	100.00
15.257	15.257	(1.130)	182	86333			64.58- 124.58	94.58
15.255	15.255	(1.130)	145	29545			2.37- 62.37	32.37
93 Hexachlorobutadiene						CAS #: 87-68-3		
15.354	15.354	(1.137)	225	32821			70.00- 130.00	100.00
15.354	15.354	(1.137)	223	20265	20.0000	20.3	31.74- 91.74	61.74
15.354	15.354	(1.137)	227	21258			34.77- 94.77	64.77
94 Naphthalene						CAS #: 91-20-3		
15.440	15.440	(1.143)	128	213670	20.0000	21.0	70.00- 130.00	100.00
15.439	15.439	(1.143)	127	27883			0.00- 43.05	13.05
15.439	15.439	(1.143)	129	23039			0.00- 40.78	10.78
95 1,2,3-trichlorobenzene						CAS #: 87-61-6		
15.607	15.607	(1.156)	180	82194	20.0000	20.5	70.00- 130.00	100.00
15.608	15.608	(1.156)	182	79228			66.39- 126.39	96.39
15.607	15.607	(1.156)	145	27415			3.35- 63.35	33.35

QC Flag Legend

M - Compound response manually integrated.

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Report Date: 26-Sep-2002 08:19

PEL Laboratories, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vms03.i
Lab File ID: 20PPB.D
Lab Smp Id: 20PPBCAL
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\VMS03\dd\chem\vms03.i\M3082702.b\8260A.m
Misc Info:

Calibration Date: 27-AUG-2002
Calibration Time: 08:53
Client Smp ID: 20PPBCAL
Level: LOW
Sample Type: WATER

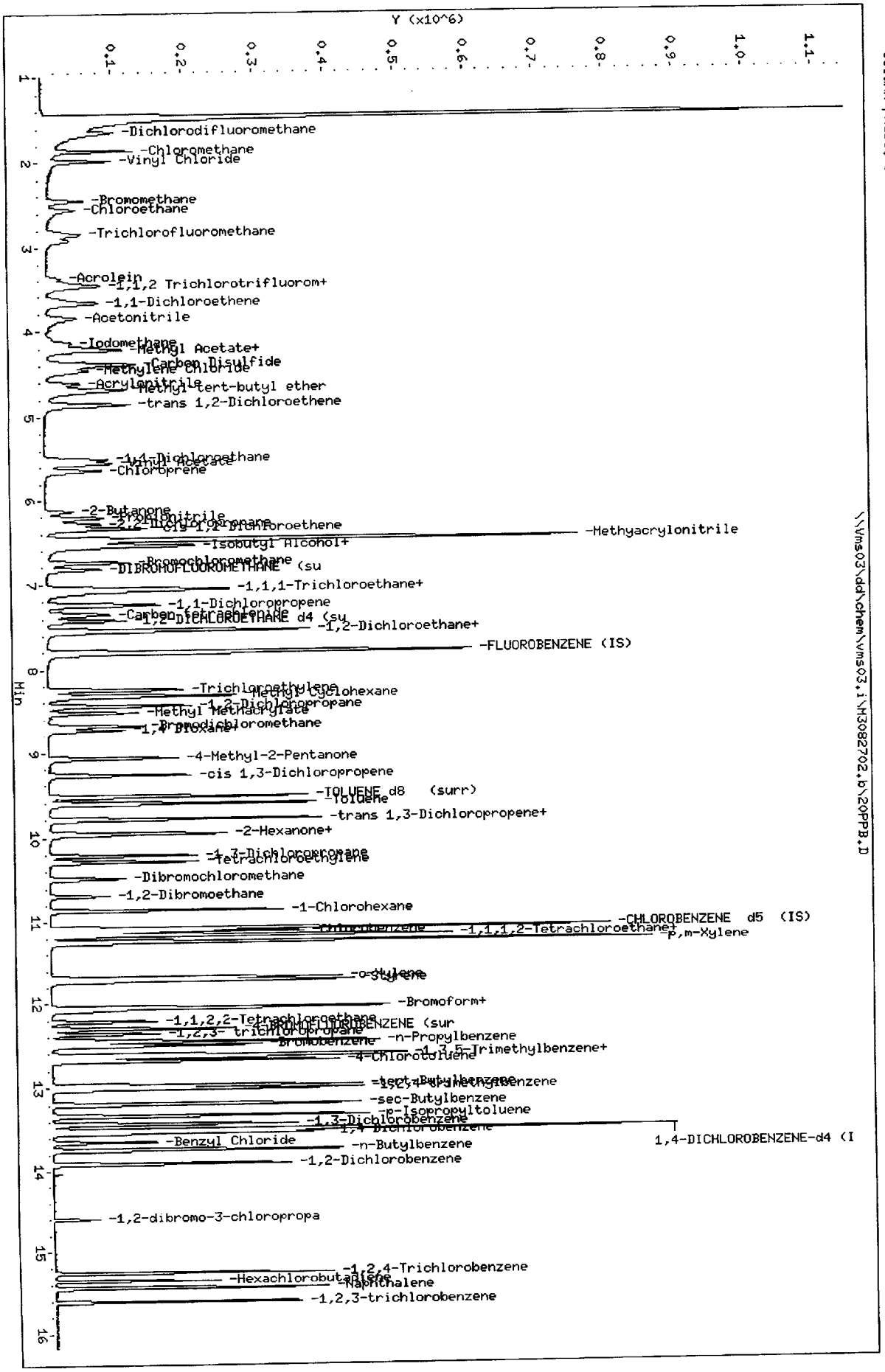
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
42 FLUOROBENZENE (IS	574299	287150	1148598	568230	-1.06
63 CHLOROBENZENE d5	414562	207281	829124	408955	-1.35
86 1,4-DICHLOROBENZE	223111	111556	446222	220008	-1.39

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
42 FLUOROBENZENE (IS	7.80	7.30	8.30	7.80	-0.01
63 CHLOROBENZENE d5	11.08	10.58	11.58	11.08	-0.01
86 1,4-DICHLOROBENZE	13.50	13.00	14.00	13.50	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\Vms03\dd\chem\vms03.i\M3082702.b\20PPB.D
Date : 27-AUG-2002 08:29
Client ID: 20PPBCAL
Sample Info: 20PPBCAL
Purge Volume: 5.0
Column phase: DB-624

Instrument: vms03.i
Operator:
Column diameter: 0.18



Data File: \\Vms03\dd\chem\vms03.i\M3082702.b\50PPB.D
Report Date: 26-Sep-2002 08:20

PEL Laboratories, Inc.

Data file : \\Vms03\dd\chem\vms03.i\M3082702.b\50PPB.D
Lab Smp Id: 50PPBCAL
Inj Date : 27-AUG-2002 08:53
Operator :
Smp Info : 50PPBCAL
Misc Info :
Comment :
Method : \\VMS03\dd\chem\vms03.i\M3082702.b\8260A.m
Meth Date : 26-Sep-2002 08:20 lpelo
Cal Date : 27-AUG-2002 06:54
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP Genie
Target Version: 4.04
Processing Host: PELCOMP01

Client Smp ID: 50PPBCAL
MS Autotune Date: 29-OCT-2001 10:36
Inst ID: vms03.i

Quant Type: ISTD
Cal File: 1PPB.D
Calibration Sample, Level: 6

Compound Sublist: all.sub
Sample Matrix: WATER

Concentration Formula: Amt * DF * Vf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	Final Volume
Vo	5.000	Sample Volume

	RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	TARGET RANGE	RATIO
M	1 1,2-Dichloroethene (Total)						CAS #: 540-59-0		
					453887	100.000	103		
M	2 Xylenes (Total)						CAS #: 1330-20-7		
					1211105	150.000	154		
M	3 Trihalomethanes (Total)						CAS #: THM		
					804466	50.0000	207		
	4 Dichlorodifluoromethane						CAS #: 75-71-8		
	1.640	1.640	(0.210)	85	259332	50.0000	48.5	70.00- 130.00	100.00
	1.638	1.638	(0.210)	87	84124			2.44- 62.44	32.44
	5 Chloromethane						CAS #: 74-87-3		
	1.855	1.855	(0.238)	50	299584	50.0000	45.7	70.00- 130.00	100.00

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RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	TARGET RANGE	RATIO
5 Chloromethane (continued)								
1.855	1.855	(0.238)	52	94504			1.55- 61.55	31.55
6 Vinyl Chloride						CAS #: 75-01-4		
1.976	1.976	(0.253)	62	195205	50.0000	41.7	70.00- 130.00	100.00
1.977	1.977	(0.254)	64	62745			2.14- 62.14	32.14
7 Bromomethane						CAS #: 74-83-9		
2.450	2.450	(0.314)	94	130183			70.00- 130.00	100.00
2.448	2.448	(0.314)	96	114707	50.0000	47.6	58.11- 118.11	88.11
8 Chloroethane						CAS #: 75-00-3		
2.556	2.556	(0.328)	64	142329	50.0000	48.6	70.00- 130.00	100.00
2.557	2.557	(0.328)	66	44648			1.37- 61.37	31.37
9 Trichlorofluoromethane						CAS #: 75-69-4		
2.843	2.843	(0.365)	101	189614	50.0000	46.8	70.00- 130.00	100.00
2.843	2.843	(0.365)	103	125168			36.01- 96.01	66.01
2.837	2.837	(0.364)	66	27420			0.00- 44.46	14.46
10 Acrolein						CAS #: 107-02-8		
3.367	3.367	(0.432)	56	59379	100.000	105	70.00- 130.00	100.00
3.366	3.366	(0.432)	55	42984			42.39- 102.39	72.39
11 1,1,2 Trichlorotrifluoromethane						CAS #: 76-13-1		
3.452	3.452	(0.443)	101	156317	50.0000	50.5	70.00- 130.00	100.00
3.454	3.454	(0.443)	151	115620			43.97- 103.97	73.97
3.456	3.456	(0.443)	103	98419			32.96- 92.96	62.96
12 Acetone						CAS #: 67-64-1		
3.465	3.465	(0.444)	43	119835	100.000	94.7	70.00- 130.00	100.00
3.469	3.469	(0.445)	58	33075			0.00- 57.60	27.60
13 1,1-Dichloroethene						CAS #: 75-35-4		
3.669	3.669	(0.470)	61	302864	50.0000	50.3	70.00- 130.00	100.00
3.670	3.670	(0.471)	96	145652			18.09- 78.09	48.09
3.669	3.669	(0.471)	98	94249			1.12- 61.12	31.12
14 Acetonitrile						CAS #: 75-05-8		
3.850	3.850	(0.494)	41	254111	500.000	492	70.00- 130.00	100.00
3.850	3.850	(0.494)	40	136583			23.75- 83.75	53.75
3.854	3.854	(0.494)	39	49621			0.00- 49.53	19.53
15 Iodomethane						CAS #: 74-88-4		
4.134	4.134	(0.530)	142	271367	50.0000	50.0	70.00- 130.00	100.00
4.134	4.134	(0.530)	127	108759			10.08- 70.08	40.08

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RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	TARGET RANGE	RATIO
15 Iodomethane (continued)								
4.133	4.133	(0.530)	141	37200			0.00- 43.71	13.71
16 Methyl Acetate						CAS #: 79-20-9		
4.191	4.191	(0.537)	43	169062	50.0000	52.9		
17 Allyl Chloride						CAS #: 107-05-1		
4.218	4.218	(0.541)	41	293005	50.0000	49.1	70.00- 130.00	100.00
4.218	4.218	(0.541)	39	191232			35.27- 95.27	65.27
4.218	4.218	(0.541)	78	25430			0.00- 38.68	8.68
18 Carbon Disulfide						CAS #: 75-15-0		
4.382	4.382	(0.562)	76	598868	50.0000	49.8	70.00- 130.00	100.00
4.382	4.382	(0.562)	78	53968			0.00- 39.01	9.01
19 Methylene Chloride						CAS #: 75-09-2		
4.452	4.452	(0.571)	84	179639			70.00- 130.00	100.00
4.452	4.452	(0.571)	49	318705	50.0000	48.7	147.41- 207.41	177.41
4.451	4.451	(0.571)	51	92869			21.70- 81.70	51.70
20 Acrylonitrile						CAS #: 107-13-1		
4.606	4.606	(0.591)	53	150021	100.000	105	70.00- 130.00	100.00
4.607	4.607	(0.591)	52	127531			55.01- 115.01	85.01
4.607	4.607	(0.591)	51	62041			11.35- 71.35	41.35
21 Methyl-tert-butyl ether						CAS #: 1634-04-4		
4.682	4.682	(0.600)	73	545940	50.0000	50.0	70.00- 130.00	100.00
4.681	4.681	(0.600)	57	144079			0.00- 56.39	26.39
22 trans 1,2-Dichloroethene						CAS #: 156-60-5		
4.857	4.857	(0.623)	96	157892			70.00- 130.00	100.00
4.858	4.858	(0.623)	61	277157	50.0000	51.2	145.54- 205.54	175.54
4.858	4.858	(0.623)	98	99851			33.24- 93.24	63.24
23 1,1-Dichloroethane						CAS #: 75-34-3		
5.506	5.506	(0.706)	63	352268	50.0000	52.0	70.00- 130.00	100.00
5.506	5.506	(0.706)	65	108139			0.70- 60.70	30.70
5.509	5.509	(0.706)	83	39478			0.00- 41.21	11.21
24 Vinyl Acetate						CAS #: 108-05-4		
5.553	5.553	(0.712)	43	506564	50.0000	51.4	70.00- 130.00	100.00
5.554	5.554	(0.712)	86	35493			0.00- 37.01	7.01
25 Chloroprene						CAS #: 126-99-8		
5.640	5.640	(0.723)	53	199192	50.0000	52.7	70.00- 130.00	100.00
5.641	5.641	(0.723)	88	85931			13.14- 73.14	43.14

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RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	TARGET RANGE	RATIO
25 Chloroprene (continued)								
5.642	5.642	(0.723)	90	25613			0.00- 42.86	12.86
26 2-Butanone						CAS #: 78-93-3		
6.131	6.131	(0.786)	43	177159	100.000	96.8	70.00- 130.00	100.00
6.131	6.131	(0.786)	72	32318			0.00- 48.24	18.24
27 Propionitrile						CAS #: 107-12-0		
6.211	6.211	(0.796)	54	286090	500.000	528	70.00- 130.00	100.00
6.214	6.214	(0.797)	52	58132			0.00- 50.32	20.32
6.212	6.212	(0.796)	55	46816			0.00- 46.36	16.36
28 2,2-Dichloropropane						CAS #: 594-20-7		
6.288	6.288	(0.806)	77	165591	50.0000	48.1	70.00- 130.00	100.00
6.292	6.292	(0.807)	79	54626			2.99- 62.99	32.99
6.289	6.289	(0.806)	97	35359			0.00- 51.35	21.35
29 cis-1,2-Dichloroethene						CAS #: 156-59-2		
6.343	6.343	(0.813)	96	176730	50.0000	51.6	70.00- 130.00	100.00
6.342	6.342	(0.813)	61	307621			144.06- 204.06	174.06
6.343	6.343	(0.813)	98	112195			33.48- 93.48	63.48
30 Methyacrylonitrile						CAS #: 126-98-7		
6.472	6.472	(0.830)	67	683284	500.000	515	70.00- 130.00	100.00
6.472	6.472	(0.830)	66	247351			6.20- 66.20	36.20
6.473	6.473	(0.830)	52	344762			20.46- 80.46	50.46
31 Isobutyl Alcohol						CAS #: 78-83-1		
6.541	6.541	(0.839)	43	183036	1000.00	1090	70.00- 130.00	100.00
6.542	6.542	(0.839)	42	108933			29.51- 89.51	59.51
6.539	6.539	(0.838)	41	194973			76.52- 136.52	106.52
32 Chloroform						CAS #: 67-66-3		
6.548	6.548	(0.840)	83	314069	50.0000	50.8	70.00- 130.00	100.00
6.549	6.549	(0.840)	85	206880			35.87- 95.87	65.87
6.547	6.547	(0.839)	47	92528			0.00- 59.46	29.46
33 Bromochloromethane						CAS #: 74-97-5		
6.745	6.745	(0.865)	128	78927	50.0000	53.0	70.00- 130.00	100.00
6.743	6.743	(0.865)	49	208794			234.54- 294.54	264.54
6.744	6.744	(0.865)	130	101349			98.41- 158.41	128.41
$ 34 DIBROMOFLUOROMETHANE (surr)						CAS #: 1868-53-7		
6.820	6.820	(0.874)	113	147019	50.0000	51.0	70.00- 130.00	100.00
6.819	6.819	(0.874)	111	148241			70.83- 130.83	100.83
6.821	6.821	(0.875)	192	26723			0.00- 48.18	18.18

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RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	TARGET RANGE	RATIO
35 1,1,1-Trichloroethane						CAS #: 71-55-6		
7.046	7.046	(0.903)	97	261965	50.0000	52.4	70.00- 130.00	100.00
7.046	7.046	(0.903)	99	168673			34.39- 94.39	64.39
7.048	7.048	(0.904)	117	30785			0.00- 41.75	11.75
36 Cyclohexane						CAS #: 110-82-7		
7.063	7.063	(0.906)	56	394391	50.0000	51.4	70.00- 130.00	100.00
7.065	7.065	(0.906)	84	269937			38.44- 98.44	68.44
7.065	7.065	(0.906)	41	241853			31.32- 91.32	61.32
37 1,1-Dichloropropene						CAS #: 563-58-6		
7.238	7.238	(0.928)	75	236396	50.0000	50.4	70.00- 130.00	100.00
7.238	7.238	(0.928)	77	73330			1.02- 61.02	31.02
7.240	7.240	(0.928)	110	74135			1.36- 61.36	31.36
38 Carbon tetrachloride						CAS #: 56-23-5		
7.346	7.346	(0.942)	117	210015	50.0000	52.2	70.00- 130.00	100.00
7.347	7.347	(0.942)	119	200639			65.54- 125.54	95.54
7.348	7.348	(0.942)	121	63002			0.00- 60.00	30.00
$ 39 1,2-DICHLOROETHANE d4 (surr)						CAS #: 17060-07-0		
7.421	7.421	(0.952)	102	37520	50.0000	53.9	70.00- 130.00	100.00
7.421	7.421	(0.952)	65	226413			573.45- 633.45	603.45
7.423	7.423	(0.952)	67	112542			269.95- 329.95	299.95
40 1,2-Dichloroethane						CAS #: 107-06-2		
7.531	7.531	(0.966)	62	304523	50.0000	53.3	70.00- 130.00	100.00
7.533	7.533	(0.966)	64	94038			0.88- 60.88	30.88
7.533	7.533	(0.966)	98	20709			0.00- 36.80	6.80
41 Benzene						CAS #: 71-43-2		
7.544	7.544	(0.967)	78	690403	50.0000	50.2	70.00- 130.00	100.00
7.544	7.544	(0.967)	52	146118			0.00- 51.16	21.16
7.545	7.545	(0.967)	77	161299			0.00- 53.36	23.36
* 42 FLUOROBENZENE (IS)						CAS #: 462-06-6		
7.799	7.799	(1.000)	96	574299	50.0000		70.00- 130.00	100.00
7.797	7.797	(1.000)	70	125126			0.00- 51.79	21.79
7.797	7.797	(1.000)	50	85136			0.00- 44.82	14.82
43 Trichloroethylene						CAS #: 79-01-6		
8.244	8.244	(1.057)	130	156895	50.0000	50.5	70.00- 130.00	100.00
8.243	8.243	(1.057)	95	175524			81.87- 141.87	111.87
8.243	8.243	(1.057)	97	109631			39.88- 99.88	69.88
44 Methyl Cyclohexane						CAS #: 108-87-2		
8.319	8.319	(1.067)	83	297644			70.00- 130.00	100.00

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RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	TARGET RANGE	RATIO
44 Methyl Cyclohexane (continued)								
8.318	8.318	(1.067)	55	303150	50.0000	50.9	71.85- 131.85	101.85
8.317	8.317	(1.066)	41	169440			26.93- 86.93	56.93
45 1,2-Dichloropropane						CAS #: 78-87-5		
8.438	8.438	(1.082)	63	206632	50.0000	52.7	70.00- 130.00	100.00
8.437	8.437	(1.082)	62	150654			42.91- 102.91	72.91
8.438	8.438	(1.082)	76	88191			12.68- 72.68	42.68
46 Methyl Methacrylate						CAS #: 80-62-6		
8.522	8.522	(1.093)	69	123543	50.0000	53.4	70.00- 130.00	100.00
8.522	8.522	(1.093)	41	205961			136.71- 196.71	166.71
47 Bromodichloromethane						CAS #: 75-27-4		
8.687	8.687	(1.114)	83	245606	50.0000	52.7	70.00- 130.00	100.00
8.687	8.687	(1.114)	85	155668			33.38- 93.38	63.38
48 1,4 Dioxane						CAS #: 123-91-1		
8.719	8.719	(1.118)	88	30772	1000.00	1070	70.00- 130.00	100.00
8.718	8.718	(1.118)	58	24662			50.14- 110.14	80.14
8.717	8.717	(1.118)	43	11566			7.59- 67.59	37.59
49 Dibromomethane						CAS #: 74-95-3		
8.739	8.739	(1.120)	93	102708	50.0000	51.6	70.00- 130.00	100.00
8.738	8.738	(1.120)	95	86559			54.28- 114.28	84.28
8.739	8.739	(1.120)	174	94724			62.23- 122.23	92.23
50 4-Methyl-2-Pentanone						CAS #: 108-10-1		
9.067	9.067	(1.162)	43	376222			70.00- 130.00	100.00
9.067	9.067	(1.163)	58	134859	100.000	106	5.85- 65.85	35.85
9.069	9.069	(1.163)	100	39989			0.00- 40.63	10.63
51 2-Hexanone						CAS #: 591-78-6		
9.970	9.970	(0.900)	43	260942	100.000	103	70.00- 130.00	100.00
9.970	9.970	(0.900)	58	127368			18.81- 78.81	48.81
52 cis 1,3-Dichloropropene						CAS #: 10061-01-5		
9.273	9.273	(1.189)	75	292316	50.0000	54.4	70.00- 130.00	100.00
9.272	9.272	(1.189)	77	91758			1.39- 61.39	31.39
9.273	9.273	(1.189)	110	57170			0.00- 49.56	19.56
$ 53 TOLUENE d8 (surr)						CAS #: 2037-26-5		
9.528	9.528	(1.222)	98	621971	50.0000	50.9	70.00- 130.00	100.00
9.527	9.527	(1.222)	70	71635			0.00- 41.52	11.52
9.528	9.528	(1.222)	100	407738			35.56- 95.56	65.56

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RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	TARGET RANGE	RATIO
54 Toluene						CAS #: 108-88-3		
9.610	9.610	(1.232)	92	407454	50.0000	50.8	70.00- 130.00	100.00
9.610	9.610	(1.232)	91	693780			140.27- 200.27	170.27
9.608	9.608	(1.232)	65	93581			0.00- 52.97	22.97
55 trans 1,3-Dichloropropene						CAS #: 10061-02-6		
9.795	9.795	(1.256)	75	272993	50.0000	55.4	70.00- 130.00	100.00
9.794	9.794	(1.256)	77	87284			1.97- 61.97	31.97
9.795	9.795	(1.256)	110	58530			0.00- 51.44	21.44
56 Ethyl Methacrylate						CAS #: 97-63-2		
9.793	9.793	(1.256)	69	227313	50.0000	54.1	70.00- 130.00	100.00
9.794	9.794	(1.256)	99	43252			0.00- 49.03	19.03
57 1,1,2-Trichloroethane						CAS #: 79-00-5		
9.954	9.954	(1.276)	97	147315	50.0000	51.7	70.00- 130.00	100.00
9.954	9.954	(1.276)	83	124726			54.67- 114.67	84.67
9.956	9.956	(1.277)	85	97161			35.95- 95.95	65.95
58 1,3-Dichloropropane						CAS #: 142-28-9		
10.214	10.214	(0.922)	76	280060	50.0000	51.2	70.00- 130.00	100.00
10.214	10.214	(0.922)	78	88947			1.76- 61.76	31.76
10.213	10.213	(0.922)	63	32924			0.00- 41.76	11.76
59 Tetrachloroethylene						CAS #: 127-18-4		
10.285	10.285	(0.928)	164	122529	50.0000	49.9	70.00- 130.00	100.00
10.284	10.284	(0.928)	129	118677			66.86- 126.86	96.86
10.286	10.286	(0.928)	166	154282			95.91- 155.91	125.91
60 Dibromochloromethane						CAS #: 124-48-1		
10.483	10.483	(0.946)	129	153699	50.0000	55.0	70.00- 130.00	100.00
10.482	10.482	(0.946)	127	117597			46.51- 106.51	76.51
61 1,2-Dibromoethane						CAS #: 106-93-4		
10.689	10.689	(0.965)	107	145877	50.0000	52.2	70.00- 130.00	100.00
10.688	10.688	(0.965)	109	138540			64.97- 124.97	94.97
62 1-Chlorohexane						CAS #: 544-10-5		
10.859	10.859	(0.980)	91	224311	50.0000	52.7	70.00- 130.00	100.00
10.858	10.858	(0.980)	55	201881			60.00- 120.00	90.00
10.858	10.858	(0.980)	56	120949			23.92- 83.92	53.92
* 63 CHLOROBENZENE d5 (IS)						CAS #: 3114-55-4		
11.079	11.079	(1.000)	117	414562	50.0000		70.00- 130.00	100.00
11.078	11.078	(1.000)	119	133352			2.17- 62.17	32.17
11.078	11.078	(1.000)	82	256978			31.99- 91.99	61.99

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RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	TARGET RANGE	RATIO
64 Chlorobenzene							CAS #: 108-90-7	
11.117	11.117	(1.003)	112	440026	50.0000	51.5	70.00- 130.00	100.00
11.117	11.117	(1.004)	114	139381			1.68- 61.68	31.68
11.116	11.116	(1.003)	77	300085			38.20- 98.20	68.20
65 1,1,1,2-Tetrachloroethane							CAS #: 630-20-6	
11.159	11.159	(1.007)	131	143194	50.0000	53.3	70.00- 130.00	100.00
11.160	11.160	(1.007)	117	98471			38.77- 98.77	68.77
11.158	11.158	(1.007)	95	61012			12.61- 72.61	42.61
66 Ethylbenzene							CAS #: 100-41-4	
11.171	11.171	(1.008)	106	234042	50.0000	51.2	70.00- 130.00	100.00
11.172	11.172	(1.008)	91	785966			305.82- 365.82	335.82
11.171	11.171	(1.008)	77	77029			2.91- 62.91	32.91
67 p,m-Xylene							CAS #: 511-39-00	
11.248	11.248	(1.015)	106	579873	100.000	103	70.00- 130.00	100.00
11.248	11.248	(1.015)	91	1268200			188.70- 248.70	218.70
11.249	11.249	(1.015)	105	267501			16.13- 76.13	46.13
68 o-Xylene							CAS #: 95-47-6	
11.690	11.690	(1.055)	91	631232	50.0000	51.5	70.00- 130.00	100.00
11.691	11.691	(1.055)	106	274079			13.42- 73.42	43.42
11.690	11.690	(1.055)	77	74559			0.00- 41.81	11.81
69 Styrene							CAS #: 100-42-5	
11.724	11.724	(1.058)	104	505662	50.0000	52.9	70.00- 130.00	100.00
11.724	11.724	(1.058)	103	274386			24.26- 84.26	54.26
11.723	11.723	(1.058)	78	299613			29.25- 89.25	59.25
70 Bromoform							CAS #: 75-25-2	
12.065	12.065	(1.089)	173	91092	50.0000	49.0	70.00- 130.00	100.00
12.066	12.066	(1.089)	175	42181			16.31- 76.31	46.31
71 1-Methylethylbenzene							CAS #: 98-82-8	
12.053	12.053	(0.893)	105	746808	50.0000	51.6	70.00- 130.00	100.00
12.053	12.053	(0.893)	120	187189			0.00- 55.07	25.07
12.052	12.052	(0.892)	77	144698			0.00- 49.38	19.38
72 1,4-Dichloro-2-Butene							CAS #: 110-57-6	
12.090	12.090	(0.895)	53	61288	100.000	94.1	70.00- 130.00	100.00
12.090	12.090	(0.895)	75	50491			52.38- 112.38	82.38
12.090	12.090	(0.895)	89	24138			9.38- 69.38	39.38
73 1,1,2,2-Tetrachloroethane							CAS #: 79-34-5	
12.218	12.218	(0.905)	83	189802	50.0000	51.0	70.00- 130.00	100.00

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RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	TARGET RANGE	RATIO
73 1,1,2,2-Tetrachloroethane (continued)								
12.217	12.217	(0.905)	85	121590			34.06- 94.06	64.06
12.218	12.218	(0.905)	133	16969			0.00- 38.94	8.94
$ 74 4-BROMOFLUOROBENZENE (surr)						CAS #: 460-00-4		
12.303	12.303	(0.911)	95	236600	50.0000	49.8	70.00- 130.00	100.00
12.305	12.305	(0.911)	174	165221			39.83- 99.83	69.83
12.305	12.305	(0.911)	176	157939			36.75- 96.75	66.75
75 1,2,3- trichloropropane						CAS #: 96-18-4		
12.366	12.366	(0.916)	75	166475			70.00- 130.00	100.00
12.366	12.366	(0.916)	77	53940			2.40- 62.40	32.40
12.367	12.367	(0.916)	110	54878	50.0000	48.5	2.96- 62.96	32.96
76 n-Propylbenzene						CAS #: 103-65-1		
12.458	12.458	(0.923)	91	941472	50.0000	52.3	70.00- 130.00	100.00
12.457	12.457	(0.922)	92	101187			0.00- 40.75	10.75
12.458	12.458	(0.923)	120	201446			0.00- 51.40	21.40
77 Bromobenzene						CAS #: 108-86-1		
12.503	12.503	(0.926)	77	359731	50.0000	51.4	70.00- 130.00	100.00
12.505	12.505	(0.926)	156	183703			21.07- 81.07	51.07
12.505	12.505	(0.926)	158	180061			20.05- 80.05	50.05
78 1,3,5-Trimethylbenzene						CAS #: 108-67-8		
12.616	12.616	(0.934)	105	652847	50.0000	51.9	70.00- 130.00	100.00
12.617	12.617	(0.934)	120	308332			17.23- 77.23	47.23
12.615	12.615	(0.934)	77	94207			0.00- 44.43	14.43
79 2-Chlorotoluene						CAS #: 95-49-8		
12.639	12.639	(0.936)	91	650987	50.0000	51.2	70.00- 130.00	100.00
12.640	12.640	(0.936)	126	162146			0.00- 54.91	24.91
12.638	12.638	(0.936)	63	122023			0.00- 48.74	18.74
80 4-Chlorotoluene						CAS #: 106-43-4		
12.685	12.685	(0.939)	91	604839	50.0000	50.4	70.00- 130.00	100.00
12.686	12.686	(0.939)	126	181209			0.00- 59.96	29.96
12.685	12.685	(0.939)	63	83944			0.00- 43.88	13.88
81 tert-Butylbenzene						CAS #: 98-06-6		
12.978	12.978	(0.961)	119	616550	50.0000	52.5	70.00- 130.00	100.00
12.978	12.978	(0.961)	91	470812			46.36- 106.36	76.36
12.979	12.979	(0.961)	134	125121			0.00- 50.29	20.29
82 1,2,4-trimethylbenzene						CAS #: 95-63-6		
13.015	13.015	(0.964)	105	639374	50.0000	51.8	70.00- 130.00	100.00

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82 1,2,4-trimethylbenzene (continued)								
13.016	13.016	(0.964)	120	287214			14.92- 74.92	44.92
13.015	13.015	(0.964)	77	85936			0.00- 43.44	13.44
83 sec-Butylbenzene						CAS #: 135-98-8		
13.195	13.195	(0.977)	105	778315	50.0000	51.2	70.00- 130.00	100.00
13.195	13.195	(0.977)	134	145274			0.00- 48.67	18.67
13.194	13.194	(0.977)	91	128276			0.00- 46.48	16.48
84 p-Isopropyltoluene						CAS #: 99-87-6		
13.331	13.331	(0.987)	119	670265	50.0000	52.1	70.00- 130.00	100.00
13.331	13.331	(0.987)	134	164218			0.00- 54.50	24.50
13.330	13.330	(0.987)	91	174901			0.00- 56.09	26.09
85 1,3-Dichlorobenzene						CAS #: 541-73-1		
13.430	13.430	(0.995)	146	348107	50.0000	50.5	70.00- 130.00	100.00
13.431	13.431	(0.995)	148	220623			33.38- 93.38	63.38
13.429	13.429	(0.994)	111	155680			14.72- 74.72	44.72
* 86 1,4-DICHLOROBENZENE-d4 (IS)						CAS #: 3855-82-1		
13.504	13.504	(1.000)	152	223111	50.0000		70.00- 130.00	100.00
13.504	13.504	(1.000)	150	393047			146.17- 206.17	176.17
13.504	13.504	(1.000)	115	142837			34.02- 94.02	64.02
87 1,4-Dichlorobenzene						CAS #: 106-46-7		
13.536	13.536	(1.002)	146	362879	50.0000	51.7	70.00- 130.00	100.00
13.537	13.537	(1.002)	148	227141			32.59- 92.59	62.59
13.536	13.536	(1.002)	111	152289			11.97- 71.97	41.97
88 Benzyl Chloride						CAS #: 100-44-7		
13.650	13.650	(1.011)	91	310743	50.0000	49.5	70.00- 130.00	100.00
13.648	13.648	(1.011)	65	41620			0.00- 43.39	13.39
89 n-Butylbenzene						CAS #: 104-51-8		
13.745	13.745	(1.018)	91	612873	50.0000	52.6	70.00- 130.00	100.00
13.744	13.744	(1.018)	92	333222			24.37- 84.37	54.37
13.745	13.745	(1.018)	134	146604			0.00- 53.92	23.92
90 1,2-Dichlorobenzene						CAS #: 95-50-1		
13.913	13.913	(1.030)	146	329492	50.0000	50.7	70.00- 130.00	100.00
13.913	13.913	(1.030)	148	208679			33.33- 93.33	63.33
13.912	13.912	(1.030)	111	151533			15.99- 75.99	45.99
91 1,2-dibromo-3-chloropropane						CAS #: 96-12-8		
14.600	14.600	(1.081)	75	40247	50.0000	49.6	70.00- 130.00	100.00
14.601	14.601	(1.081)	155	28914			41.84- 101.84	71.84

Data File: \\Vms03\dd\chem\vms03.i\M3082702.b\50PPB.D
Report Date: 26-Sep-2002 08:20

RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	TARGET RANGE	RATIO
91 1,2-dibromo-3-chloropropane (continued)								
14.602	14.602	(1.081)	157	37136			62.27- 122.27	92.27
92 1,2,4-Trichlorobenzene						CAS #: 120-82-1		
15.263	15.263	(1.130)	180	240029	50.0000	52.9	70.00- 130.00	100.00
15.263	15.263	(1.130)	182	227621			64.83- 124.83	94.83
15.262	15.262	(1.130)	145	75256			1.35- 61.35	31.35
93 Hexachlorobutadiene						CAS #: 87-68-3		
15.360	15.360	(1.137)	225	86045			70.00- 130.00	100.00
15.360	15.360	(1.137)	223	52320	50.0000	51.7	30.81- 90.81	60.81
15.360	15.360	(1.137)	227	54242			33.04- 93.04	63.04
94 Naphthalene						CAS #: 91-20-3		
15.446	15.446	(1.144)	128	554825	50.0000	53.6	70.00- 130.00	100.00
15.446	15.446	(1.144)	127	69122			0.00- 42.46	12.46
15.446	15.446	(1.144)	129	59111			0.00- 40.65	10.65
95 1,2,3-trichlorobenzene						CAS #: 87-61-6		
15.615	15.615	(1.156)	180	215686	50.0000	53.1	70.00- 130.00	100.00
15.614	15.614	(1.156)	182	205763			65.40- 125.40	95.40
15.614	15.614	(1.156)	145	73520			4.09- 64.09	34.09

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PEL Laboratories, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vms03.i
Lab File ID: 50PPB.D
Lab Smp Id: 50PPBCAL
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\VMS03\dd\chem\vms03.i\M3082702.b\8260A.m
Misc Info:

Calibration Date: 27-AUG-2002
Calibration Time: 08:53
Client Smp ID: 50PPBCAL
Level: LOW
Sample Type: WATER

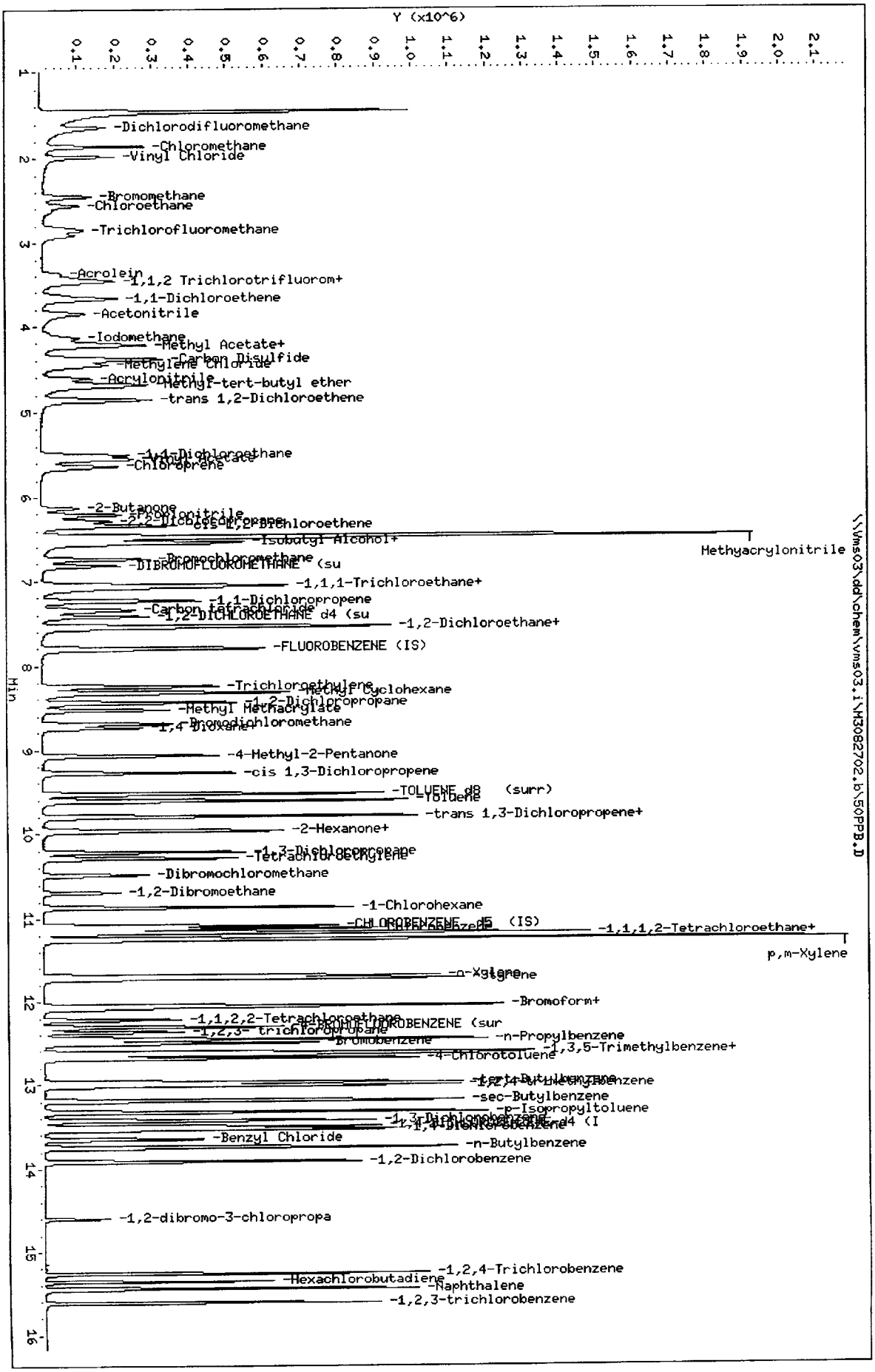
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
42 FLUOROBENZENE (IS	574299	287150	1148598	574299	0.00
63 CHLOROBENZENE d5	414562	207281	829124	414562	0.00
86 1,4-DICHLOROBENZE	223111	111556	446222	223111	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
42 FLUOROBENZENE (IS	7.80	7.30	8.30	7.80	0.00
63 CHLOROBENZENE d5	11.08	10.58	11.58	11.08	0.00
86 1,4-DICHLOROBENZE	13.50	13.00	14.00	13.50	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\Vms03\dd\chem\vms03.i\H3082702.b\50PPB.D
Date : 27-AUG-2002 08:53
Client ID: 50PPBCAL
Sample Info: 50PPBCAL
Purge Volume: 5.0
Column phase: DB-624

Instrument: vms03.i
Operator:
Column diameter: 0.18



Data File: \\Vms03\dd\chem\vms03.i\M3082702.b\60PPB.D
Report Date: 26-Sep-2002 08:20

PEL Laboratories, Inc.

Data file : \\Vms03\dd\chem\vms03.i\M3082702.b\60PPB.D
Lab Smp Id: 60PPBCAL Client Smp ID: 60PPBCAL
Inj Date : 27-AUG-2002 09:17 MS Autotune Date: 29-OCT-2001 10:36
Operator : Inst ID: vms03.i
Smp Info : 60PPBCAL
Misc Info :
Comment :
Method : \\Vms03\dd\chem\vms03.i\M3082702.b\8260A.m
Meth Date : 26-Sep-2002 08:20 lpelo Quant Type: ISTD
Cal Date : 27-AUG-2002 06:54 Cal File: 1PPB.D
Als bottle: 7 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.04 Sample Matrix: WATER
Processing Host: PELCOMP01

Concentration Formula: Amt * DF * Vf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	Final Volume
Vo	5.000	Sample Volume

					AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	TARGET RANGE	RATIO
M 1 1,2-Dichloroethene (Total)						CAS #: 540-59-0		
				550426	120.000	125		
M 2 Xylenes (Total)						CAS #: 1330-20-7		
				1492984	180.000	190		
M 3 Trihalomethanes (Total)						CAS #: THM		
				982805	60.0000	252		
4 Dichlorodifluoromethane						CAS #: 75-71-8		
1.638	1.638	(0.210)	85	331409	60.0000	62.3	70.00- 130.00	100.00
1.639	1.639	(0.210)	87	106949			2.27- 62.27	32.27
5 Chloromethane						CAS #: 74-87-3		
1.856	1.856	(0.238)	50	382470	60.0000	58.6	70.00- 130.00	100.00

Data File: \\Vms03\dd\chem\vms03.i\M3082702.b\60PPB.D
Report Date: 26-Sep-2002 08:20

RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	TARGET RANGE	RATIO
5 Chloromethane (continued)								
1.856	1.856	(0.238)	52	120530			1.51- 61.51	31.51
6 Vinyl Chloride						CAS #: 75-01-4		
1.975	1.975	(0.253)	62	249418	60.0000	53.5	70.00- 130.00	100.00
1.975	1.975	(0.253)	64	78894			1.63- 61.63	31.63
7 Bromomethane						CAS #: 74-83-9		
2.449	2.449	(0.314)	94	155829			70.00- 130.00	100.00
2.449	2.449	(0.314)	96	142960	60.0000	59.6	61.74- 121.74	91.74
8 Chloroethane						CAS #: 75-00-3		
2.559	2.559	(0.328)	64	175001	60.0000	60.0	70.00- 130.00	100.00
2.559	2.559	(0.328)	66	56468			2.27- 62.27	32.27
9 Trichlorofluoromethane						CAS #: 75-69-4		
2.845	2.845	(0.365)	101	258740	60.0000	64.1	70.00- 130.00	100.00
2.842	2.842	(0.364)	103	163473			33.18- 93.18	63.18
2.842	2.842	(0.364)	66	36346			0.00- 44.05	14.05
10 Acrolein						CAS #: 107-02-8		
3.369	3.369	(0.432)	56	71443	120.000	126	70.00- 130.00	100.00
3.368	3.368	(0.432)	55	53097			44.32- 104.32	74.32
11 1,1,2 Trichlorotrifluoromethane						CAS #: 76-13-1		
3.457	3.457	(0.443)	101	196428	60.0000	63.7	70.00- 130.00	100.00
3.453	3.453	(0.443)	151	148896			45.80- 105.80	75.80
3.448	3.448	(0.442)	103	126878			34.59- 94.59	64.59
12 Acetone						CAS #: 67-64-1		
3.467	3.467	(0.445)	43	142981	120.000	113	70.00- 130.00	100.00
3.469	3.469	(0.445)	58	38086			0.00- 56.64	26.64
13 1,1-Dichloroethene						CAS #: 75-35-4		
3.664	3.664	(0.470)	61	375591	60.0000	62.6	70.00- 130.00	100.00
3.673	3.673	(0.471)	96	180054			17.94- 77.94	47.94
3.668	3.668	(0.470)	98	117789			1.36- 61.36	31.36
14 Acetonitrile						CAS #: 75-05-8		
3.851	3.851	(0.494)	41	314260	600.000	611	70.00- 130.00	100.00
3.852	3.852	(0.494)	40	157978			20.27- 80.27	50.27
3.850	3.850	(0.494)	39	55017			0.00- 47.51	17.51
15 Iodomethane						CAS #: 74-88-4		
4.137	4.137	(0.531)	142	333163	60.0000	61.6	70.00- 130.00	100.00
4.138	4.138	(0.531)	127	136564			10.99- 70.99	40.99

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RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	TARGET RANGE	RATIO
15 Iodomethane (continued)								
4.143	4.143	(0.531)	141	46463			0.00- 43.95	13.95
16 Methyl Acetate						CAS #: 79-20-9		
4.192	4.192	(0.538)	43	197945	60.0000	62.2		
17 Allyl Chloride						CAS #: 107-05-1		
4.216	4.216	(0.541)	41	364321	60.0000	61.4	70.00- 130.00	100.00
4.217	4.217	(0.541)	39	233155			34.00- 94.00	64.00
4.223	4.223	(0.542)	78	31486			0.00- 38.64	8.64
18 Carbon Disulfide						CAS #: 75-15-0		
4.381	4.381	(0.562)	76	759200	60.0000	63.4	70.00- 130.00	100.00
4.383	4.383	(0.562)	78	67741			0.00- 38.92	8.92
19 Methylene Chloride						CAS #: 75-09-2		
4.456	4.456	(0.571)	84	221525			70.00- 130.00	100.00
4.456	4.456	(0.571)	49	388216	60.0000	59.6	145.25- 205.25	175.25
4.455	4.455	(0.571)	51	113919			21.42- 81.42	51.42
20 Acrylonitrile						CAS #: 107-13-1		
4.605	4.605	(0.591)	53	184698	120.000	130	70.00- 130.00	100.00
4.603	4.603	(0.590)	52	158645			55.89- 115.89	85.89
4.609	4.609	(0.591)	51	76713			11.53- 71.53	41.53
21 Methyl-tert-butyl ether						CAS #: 1634-04-4		
4.685	4.685	(0.601)	73	676765	60.0000	62.2	70.00- 130.00	100.00
4.678	4.678	(0.600)	57	171660			0.00- 55.36	25.36
22 trans 1,2-Dichloroethene						CAS #: 156-60-5		
4.858	4.858	(0.623)	96	192005			70.00- 130.00	100.00
4.856	4.856	(0.623)	61	334876	60.0000	62.1	144.41- 204.41	174.41
4.858	4.858	(0.623)	98	125050			35.13- 95.13	65.13
23 1,1-Dichloroethane						CAS #: 75-34-3		
5.505	5.505	(0.706)	63	430519	60.0000	63.8	70.00- 130.00	100.00
5.508	5.508	(0.706)	65	130716			0.36- 60.36	30.36
5.509	5.509	(0.706)	83	48842			0.00- 41.34	11.34
24 Vinyl Acetate						CAS #: 108-05-4		
5.552	5.552	(0.712)	43	626760	60.0000	63.9	70.00- 130.00	100.00
5.549	5.549	(0.712)	86	43681			0.00- 36.97	6.97
25 Chloroprene						CAS #: 126-99-8		
5.637	5.637	(0.723)	53	243497	60.0000	64.6	70.00- 130.00	100.00
5.642	5.642	(0.723)	88	105979			13.52- 73.52	43.52

Data File: \\Vms03\dd\chem\vms03.i\M3082702.b\60PPB.D
Report Date: 26-Sep-2002 08:20

RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	TARGET RANGE	RATIO
25 Chloroprene (continued)								
5.641	5.641	(0.723)	90	31490			0.00- 42.93	12.93
26 2-Butanone						CAS #: 78-93-3		
6.130	6.130	(0.786)	43	218083	120.000	120	70.00- 130.00	100.00
6.131	6.131	(0.786)	72	40305			0.00- 48.48	18.48
27 Propionitrile						CAS #: 107-12-0		
6.211	6.211	(0.797)	54	343710	600.000	637	70.00- 130.00	100.00
6.211	6.211	(0.796)	52	71853			0.00- 50.91	20.91
6.209	6.209	(0.796)	55	56675			0.00- 46.49	16.49
28 2,2-Dichloropropane						CAS #: 594-20-7		
6.287	6.287	(0.806)	77	206885	60.0000	60.4	70.00- 130.00	100.00
6.287	6.287	(0.806)	79	65394			1.61- 61.61	31.61
6.285	6.285	(0.806)	97	43858			0.00- 51.20	21.20
29 cis-1,2-Dichloroethene						CAS #: 156-59-2		
6.341	6.341	(0.813)	96	215550	60.0000	63.2	70.00- 130.00	100.00
6.341	6.341	(0.813)	61	380831			146.68- 206.68	176.68
6.342	6.342	(0.813)	98	138530			34.27- 94.27	64.27
30 Methyacrylonitrile						CAS #: 126-98-7		
6.473	6.473	(0.830)	67	823995	600.000	624	70.00- 130.00	100.00
6.472	6.472	(0.830)	66	297156			6.06- 66.06	36.06
6.472	6.472	(0.830)	52	410110			19.77- 79.77	49.77
31 Isobutyl Alcohol						CAS #: 78-83-1		
6.541	6.541	(0.839)	43	224015	1200.00	1340	70.00- 130.00	100.00
6.540	6.540	(0.839)	42	136496			30.93- 90.93	60.93
6.538	6.538	(0.838)	41	245418			79.55- 139.55	109.55
32 Chloroform						CAS #: 67-66-3		
6.549	6.549	(0.840)	83	385620	60.0000	62.6	70.00- 130.00	100.00
6.549	6.549	(0.840)	85	252010			35.35- 95.35	65.35
6.547	6.547	(0.840)	47	113240			0.00- 59.37	29.37
33 Bromochloromethane						CAS #: 74-97-5		
6.744	6.744	(0.865)	128	97074	60.0000	65.4	70.00- 130.00	100.00
6.666	6.666	(0.855)	49	129			0.00- 30.13	0.13
6.744	6.744	(0.865)	130	124550			98.30- 158.30	128.30
$ 34 DIBROMOFLUOROMETHANE (surr)						CAS #: 1868-53-7		
6.820	6.820	(0.875)	113	176168	60.0000	61.4	70.00- 130.00	100.00
6.818	6.818	(0.874)	111	178790			71.49- 131.49	101.49
6.819	6.819	(0.874)	192	32155			0.00- 48.25	18.25

Data File: \\Vms03\dd\chem\vms03.i\M3082702.b\60PPB.D
Report Date: 26-Sep-2002 08:20

RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	TARGET RANGE	RATIO
35 1,1,1-Trichloroethane						CAS #: 71-55-6		
7.045	7.045	(0.903)	97	319554	60.0000	64.2	70.00- 130.00	100.00
7.048	7.048	(0.904)	99	206054			34.48- 94.48	64.48
7.044	7.044	(0.903)	117	37026			0.00- 41.59	11.59
36 Cyclohexane						CAS #: 110-82-7		
7.064	7.064	(0.906)	56	493555	60.0000	64.6	70.00- 130.00	100.00
7.064	7.064	(0.906)	84	334014			37.68- 97.68	67.68
7.064	7.064	(0.906)	41	295981			29.97- 89.97	59.97
37 1,1-Dichloropropene						CAS #: 563-58-6		
7.237	7.237	(0.928)	75	294414	60.0000	63.0	70.00- 130.00	100.00
7.237	7.237	(0.928)	77	89735			0.48- 60.48	30.48
7.238	7.238	(0.928)	110	91717			1.15- 61.15	31.15
38 Carbon tetrachloride						CAS #: 56-23-5		
7.348	7.348	(0.942)	117	261997	60.0000	65.4	70.00- 130.00	100.00
7.347	7.347	(0.942)	119	250444			65.59- 125.59	95.59
7.348	7.348	(0.942)	121	76724			0.00- 59.28	29.28
$ 39 1,2-DICHLOROETHANE d4 (surr)						CAS #: 17060-07-0		
7.422	7.422	(0.952)	102	44169	60.0000	63.8	70.00- 130.00	100.00
7.421	7.421	(0.952)	65	270064			581.43- 641.43	611.43
7.421	7.421	(0.952)	67	133102			271.35- 331.35	301.35
40 1,2-Dichloroethane						CAS #: 107-06-2		
7.532	7.532	(0.966)	62	362598	60.0000	63.8	70.00- 130.00	100.00
7.532	7.532	(0.966)	64	114286			1.52- 61.52	31.52
7.531	7.531	(0.966)	98	24723			0.00- 36.82	6.82
41 Benzene						CAS #: 71-43-2		
7.544	7.544	(0.967)	78	853671	60.0000	62.3	70.00- 130.00	100.00
7.544	7.544	(0.967)	52	178693			0.00- 50.93	20.93
7.544	7.544	(0.967)	77	198356			0.00- 53.24	23.24
* 42 FLUOROBENZENE (IS)						CAS #: 462-06-6		
7.798	7.798	(1.000)	96	571941	50.0000		70.00- 130.00	100.00
7.797	7.797	(1.000)	70	123042			0.00- 51.51	21.51
7.797	7.797	(1.000)	50	84491			0.00- 44.77	14.77
43 Trichloroethylene						CAS #: 79-01-6		
8.243	8.243	(1.057)	130	198004	60.0000	64.0	70.00- 130.00	100.00
8.242	8.242	(1.057)	95	217060			79.62- 139.62	109.62
8.243	8.243	(1.057)	97	137996			39.69- 99.69	69.69
44 Methyl Cyclohexane						CAS #: 108-87-2		
8.319	8.319	(1.067)	83	372309			70.00- 130.00	100.00

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RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	TARGET RANGE	RATIO
44 Methyl Cyclohexane (continued)								
8.318	8.318	(1.067)	55	374115	60.0000	63.1	70.49- 130.49	100.49
8.317	8.317	(1.066)	41	211126			26.71- 86.71	56.71
45 1,2-Dichloropropane						CAS #: 78-87-5		
8.437	8.437	(1.082)	63	249400	60.0000	63.8	70.00- 130.00	100.00
8.438	8.438	(1.082)	62	183187			43.45- 103.45	73.45
8.437	8.437	(1.082)	76	106533			12.72- 72.72	42.72
46 Methyl Methacrylate						CAS #: 80-62-6		
8.522	8.522	(1.093)	69	149286	60.0000	64.8	70.00- 130.00	100.00
8.521	8.521	(1.093)	41	247374			135.70- 195.70	165.70
47 Bromodichloromethane						CAS #: 75-27-4		
8.687	8.687	(1.114)	83	302100	60.0000	65.1	70.00- 130.00	100.00
8.686	8.686	(1.114)	85	190695			33.12- 93.12	63.12
48 1,4 Dioxane						CAS #: 123-91-1		
8.719	8.719	(1.118)	88	38471	1200.00	1340	70.00- 130.00	100.00
8.720	8.720	(1.118)	58	30593			49.52- 109.52	79.52
8.724	8.724	(1.119)	43	13812			5.90- 65.90	35.90
49 Dibromomethane						CAS #: 74-95-3		
8.737	8.737	(1.120)	93	127443	60.0000	64.4	70.00- 130.00	100.00
8.737	8.737	(1.120)	95	103902			51.53- 111.53	81.53
8.739	8.739	(1.121)	174	116035			61.05- 121.05	91.05
50 4-Methyl-2-Pentanone						CAS #: 108-10-1		
9.066	9.066	(1.163)	43	458614			70.00- 130.00	100.00
9.068	9.068	(1.163)	58	161113	120.000	127	5.13- 65.13	35.13
9.068	9.068	(1.163)	100	49859			0.00- 40.87	10.87
51 2-Hexanone						CAS #: 591-78-6		
9.969	9.969	(0.900)	43	318736	120.000	126	70.00- 130.00	100.00
9.970	9.970	(0.900)	58	153728			18.23- 78.23	48.23
52 cis 1,3-Dichloropropene						CAS #: 10061-01-5		
9.272	9.272	(1.189)	75	358302	60.0000	66.9	70.00- 130.00	100.00
9.273	9.273	(1.189)	77	114063			1.83- 61.83	31.83
9.271	9.271	(1.189)	110	72829			0.00- 50.33	20.33
$ 53 TOLUENE d8 (surr)						CAS #: 2037-26-5		
9.527	9.527	(1.222)	98	751419	60.0000	61.8	70.00- 130.00	100.00
9.527	9.527	(1.222)	70	88466			0.00- 41.77	11.77
9.527	9.527	(1.222)	100	491335			35.39- 95.39	65.39

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RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	TARGET RANGE	RATIO
54 Toluene						CAS #: 108-88-3		
9.610	9.610	(1.232)	92	504713	60.0000	63.2	70.00- 130.00	100.00
9.609	9.609	(1.232)	91	852313			138.87- 198.87	168.87
9.609	9.609	(1.232)	65	113613			0.00- 52.51	22.51
55 trans 1,3-Dichloropropene						CAS #: 10061-02-6		
9.794	9.794	(1.256)	75	335926	60.0000	68.5	70.00- 130.00	100.00
9.795	9.795	(1.256)	77	108752			2.37- 62.37	32.37
9.795	9.795	(1.256)	110	70876			0.00- 51.10	21.10
56 Ethyl Methacrylate						CAS #: 97-63-2		
9.792	9.792	(1.256)	69	279357	60.0000	66.8	70.00- 130.00	100.00
9.793	9.793	(1.256)	99	52682			0.00- 48.86	18.86
57 1,1,2-Trichloroethane						CAS #: 79-00-5		
9.955	9.955	(1.277)	97	178835	60.0000	63.1	70.00- 130.00	100.00
9.955	9.955	(1.277)	83	155010			56.68- 116.68	86.68
9.956	9.956	(1.277)	85	118538			36.28- 96.28	66.28
58 1,3-Dichloropropane						CAS #: 142-28-9		
10.213	10.213	(0.922)	76	339919	60.0000	62.1	70.00- 130.00	100.00
10.214	10.214	(0.922)	78	108534			1.93- 61.93	31.93
10.213	10.213	(0.922)	63	38495			0.00- 41.32	11.32
59 Tetrachloroethylene						CAS #: 127-18-4		
10.285	10.285	(0.928)	164	151475	60.0000	61.6	70.00- 130.00	100.00
10.285	10.285	(0.928)	129	150272			69.21- 129.21	99.21
10.286	10.286	(0.929)	166	192950			97.38- 157.38	127.38
60 Dibromochloromethane						CAS #: 124-48-1		
10.482	10.482	(0.946)	129	185665	60.0000	66.4	70.00- 130.00	100.00
10.482	10.482	(0.946)	127	144476			47.82- 107.82	77.82
61 1,2-Dibromoethane						CAS #: 106-93-4		
10.689	10.689	(0.965)	107	176115	60.0000	62.9	70.00- 130.00	100.00
10.688	10.688	(0.965)	109	165647			64.06- 124.06	94.06
62 1-Chlorohexane						CAS #: 544-10-5		
10.859	10.859	(0.980)	91	281333	60.0000	66.0	70.00- 130.00	100.00
10.858	10.858	(0.980)	55	254429			60.44- 120.44	90.44
10.858	10.858	(0.980)	56	152200			24.10- 84.10	54.10
* 63 CHLOROBENZENE d5 (IS)						CAS #: 3114-55-4		
11.078	11.078	(1.000)	117	415258	50.0000		70.00- 130.00	100.00
11.079	11.079	(1.000)	119	134129			2.30- 62.30	32.30
11.077	11.077	(1.000)	82	259864			32.58- 92.58	62.58

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RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	TARGET RANGE	RATIO
64 Chlorobenzene						CAS #: 108-90-7		
11.118	11.118	(1.004)	112	531763	60.0000	62.2	70.00- 130.00	100.00
11.118	11.118	(1.004)	114	174600			2.83- 62.83	32.83
11.116	11.116	(1.003)	77	372195			39.99- 99.99	69.99
65 1,1,1,2-Tetrachloroethane						CAS #: 630-20-6		
11.159	11.159	(1.007)	131	177165	60.0000	65.8	70.00- 130.00	100.00
11.159	11.159	(1.007)	117	120254			37.88- 97.88	67.88
11.159	11.159	(1.007)	95	73074			11.25- 71.25	41.25
66 Ethylbenzene						CAS #: 100-41-4		
11.171	11.171	(1.008)	106	289519	60.0000	63.2	70.00- 130.00	100.00
11.171	11.171	(1.008)	91	975558			306.96- 366.96	336.96
11.170	11.170	(1.008)	77	94991			2.81- 62.81	32.81
67 p,m-Xylene						CAS #: 511-39-00		
11.249	11.249	(1.015)	106	717513	120.000	127	70.00- 130.00	100.00
11.249	11.249	(1.015)	91	1559447			187.34- 247.34	217.34
11.249	11.249	(1.015)	105	328963			15.85- 75.85	45.85
68 o-Xylene						CAS #: 95-47-6		
11.691	11.691	(1.055)	91	775471	60.0000	63.1	70.00- 130.00	100.00
11.691	11.691	(1.055)	106	337500			13.52- 73.52	43.52
11.691	11.691	(1.055)	77	79492			0.00- 40.25	10.25
69 Styrene						CAS #: 100-42-5		
11.724	11.724	(1.058)	104	616015	60.0000	64.3	70.00- 130.00	100.00
11.724	11.724	(1.058)	103	332284			23.94- 83.94	53.94
11.723	11.723	(1.058)	78	367368			29.64- 89.64	59.64
70 Bromoform						CAS #: 75-25-2		
12.065	12.065	(1.089)	173	109420	60.0000	58.4	70.00- 130.00	100.00
12.064	12.064	(1.089)	175	51738			17.28- 77.28	47.28
71 1-Methylethylbenzene						CAS #: 98-82-8		
12.052	12.052	(0.892)	105	916464	60.0000	62.9	70.00- 130.00	100.00
12.053	12.053	(0.892)	120	233360			0.00- 55.46	25.46
12.052	12.052	(0.892)	77	179149			0.00- 49.55	19.55
72 1,4-Dichloro-2-Butene						CAS #: 110-57-6		
12.089	12.089	(0.895)	53	80285	120.000	122	70.00- 130.00	100.00
12.090	12.090	(0.895)	75	66225			52.49- 112.49	82.49
12.090	12.090	(0.895)	89	30917			8.51- 68.51	38.51
73 1,1,2,2-Tetrachloroethane						CAS #: 79-34-5		
12.218	12.218	(0.905)	83	228777	60.0000	61.1	70.00- 130.00	100.00

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RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	TARGET RANGE	RATIO
73 1,1,2,2-Tetrachloroethane (continued)								
12.218	12.218	(0.905)	85	149831			35.49- 95.49	65.49
12.220	12.220	(0.905)	133	19545			0.00- 38.54	8.54
$ 74 4-BROMOFLUOROBENZENE (surr)						CAS #: 460-00-4		
12.304	12.304	(0.911)	95	294443	60.0000	61.6	70.00- 130.00	100.00
12.305	12.305	(0.911)	174	203737			39.19- 99.19	69.19
12.306	12.306	(0.911)	176	196550			36.75- 96.75	66.75
75 1,2,3- trichloropropane						CAS #: 96-18-4		
12.366	12.366	(0.916)	75	197876			70.00- 130.00	100.00
12.366	12.366	(0.916)	77	62656			1.66- 61.66	31.66
12.367	12.367	(0.916)	110	69457	60.0000	61.0	5.10- 65.10	35.10
76 n-Propylbenzene						CAS #: 103-65-1		
12.458	12.458	(0.923)	91	1158696	60.0000	63.9	70.00- 130.00	100.00
12.458	12.458	(0.922)	92	124130			0.00- 40.71	10.71
12.459	12.459	(0.923)	120	248166			0.00- 51.42	21.42
77 Bromobenzene						CAS #: 108-86-1		
12.503	12.503	(0.926)	77	430321	60.0000	61.1	70.00- 130.00	100.00
12.505	12.505	(0.926)	156	223675			21.98- 81.98	51.98
12.504	12.504	(0.926)	158	220395			21.22- 81.22	51.22
78 1,3,5-Trimethylbenzene						CAS #: 108-67-8		
12.616	12.616	(0.934)	105	798556	60.0000	63.1	70.00- 130.00	100.00
12.616	12.616	(0.934)	120	375205			16.99- 76.99	46.99
12.615	12.615	(0.934)	77	113133			0.00- 44.17	14.17
79 2-Chlorotoluene						CAS #: 95-49-8		
12.640	12.640	(0.936)	91	805744	60.0000	63.0	70.00- 130.00	100.00
12.640	12.640	(0.936)	126	206992			0.00- 55.69	25.69
12.638	12.638	(0.936)	63	148543			0.00- 48.44	18.44
80 4-Chlorotoluene						CAS #: 106-43-4		
12.685	12.685	(0.939)	91	738956	60.0000	61.1	70.00- 130.00	100.00
12.686	12.686	(0.939)	126	223000			0.18- 60.18	30.18
12.685	12.685	(0.939)	63	101606			0.00- 43.75	13.75
81 tert-Butylbenzene						CAS #: 98-06-6		
12.978	12.978	(0.961)	119	753861	60.0000	63.8	70.00- 130.00	100.00
12.978	12.978	(0.961)	91	581915			47.19- 107.19	77.19
12.979	12.979	(0.961)	134	152702			0.00- 50.26	20.26
82 1,2,4-trimethylbenzene						CAS #: 95-63-6		
13.015	13.015	(0.964)	105	791292	60.0000	63.6	70.00- 130.00	100.00

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RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	TARGET RANGE	RATIO
82 1,2,4-trimethylbenzene (continued)								
13.015	13.015	(0.964)	120	356713			15.08- 75.08	45.08
13.014	13.014	(0.964)	77	115552			0.00- 44.60	14.60
83 sec-Butylbenzene						CAS #: 135-98-8		
13.194	13.194	(0.977)	105	980835	60.0000	64.2	70.00- 130.00	100.00
13.196	13.196	(0.977)	134	180085			0.00- 48.36	18.36
13.194	13.194	(0.977)	91	153247			0.00- 45.62	15.62
84 p-Isopropyltoluene						CAS #: 99-87-6		
13.331	13.331	(0.987)	119	835127	60.0000	64.5	70.00- 130.00	100.00
13.332	13.332	(0.987)	134	205463			0.00- 54.60	24.60
13.330	13.330	(0.987)	91	215220			0.00- 55.77	25.77
85 1,3-Dichlorobenzene						CAS #: 541-73-1		
13.430	13.430	(0.995)	146	424372	60.0000	61.2	70.00- 130.00	100.00
13.431	13.431	(0.995)	148	273454			34.44- 94.44	64.44
13.429	13.429	(0.994)	111	186316			13.90- 73.90	43.90
* 86 1,4-DICHLOROBENZENE-d4 (IS)						CAS #: 3855-82-1		
13.504	13.504	(1.000)	152	224487	50.0000		70.00- 130.00	100.00
13.504	13.504	(1.000)	150	396717			146.72- 206.72	176.72
13.503	13.503	(1.000)	115	141645			33.10- 93.10	63.10
87 1,4-Dichlorobenzene						CAS #: 106-46-7		
13.537	13.537	(1.002)	146	435832	60.0000	61.7	70.00- 130.00	100.00
13.537	13.537	(1.002)	148	278441			33.89- 93.89	63.89
13.536	13.536	(1.002)	111	189490			13.48- 73.48	43.48
88 Benzyl Chloride						CAS #: 100-44-7		
13.649	13.649	(1.011)	91	376073	60.0000	59.2	70.00- 130.00	100.00
13.649	13.649	(1.011)	65	50452			0.00- 43.42	13.42
89 n-Butylbenzene						CAS #: 104-51-8		
13.745	13.745	(1.018)	91	755440	60.0000	64.5	70.00- 130.00	100.00
13.745	13.745	(1.018)	92	407929			24.00- 84.00	54.00
13.746	13.746	(1.018)	134	179894			0.00- 53.81	23.81
90 1,2-Dichlorobenzene						CAS #: 95-50-1		
13.913	13.913	(1.030)	146	402732	60.0000	61.6	70.00- 130.00	100.00
13.913	13.913	(1.030)	148	255453			33.43- 93.43	63.43
13.912	13.912	(1.030)	111	184600			15.84- 75.84	45.84
91 1,2-dibromo-3-chloropropane						CAS #: 96-12-8		
14.599	14.599	(1.081)	75	48688	60.0000	59.3	70.00- 130.00	100.00
14.601	14.601	(1.081)	155	34491			40.84- 100.84	70.84

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RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	TARGET RANGE	RATIO
91 1,2-dibromo-3-chloropropane (continued)								
14.601	14.601	(1.081)	157	44378			61.15- 121.15	91.15
92 1,2,4-Trichlorobenzene						CAS #: 120-82-1		
15.261	15.261	(1.130)	180	291365	60.0000	63.8	70.00- 130.00	100.00
15.262	15.262	(1.130)	182	274174			64.10- 124.10	94.10
15.260	15.260	(1.130)	145	92824			1.86- 61.86	31.86
93 Hexachlorobutadiene						CAS #: 87-68-3		
15.359	15.359	(1.137)	225	104149			70.00- 130.00	100.00
15.359	15.359	(1.137)	223	66083	60.0000	64.8	33.45- 93.45	63.45
15.359	15.359	(1.137)	227	67022			34.35- 94.35	64.35
94 Naphthalene						CAS #: 91-20-3		
15.445	15.445	(1.144)	128	678618	60.0000	65.2	70.00- 130.00	100.00
15.445	15.445	(1.144)	127	88135			0.00- 42.99	12.99
15.445	15.445	(1.144)	129	72595			0.00- 40.70	10.70
95 1,2,3-trichlorobenzene						CAS #: 87-61-6		
15.614	15.614	(1.156)	180	259052	60.0000	63.4	70.00- 130.00	100.00
15.614	15.614	(1.156)	182	247605			65.58- 125.58	95.58
15.613	15.613	(1.156)	145	87191			3.66- 63.66	33.66

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PEL Laboratories, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vms03.i
Lab File ID: 60PPB.D
Lab Smp Id: 60PPBCAL
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\Vms03\dd\chem\vms03.i\M3082702.b\8260A.m
Misc Info:

Calibration Date: 27-AUG-2002
Calibration Time: 08:53
Client Smp ID: 60PPBCAL
Level: LOW
Sample Type: WATER

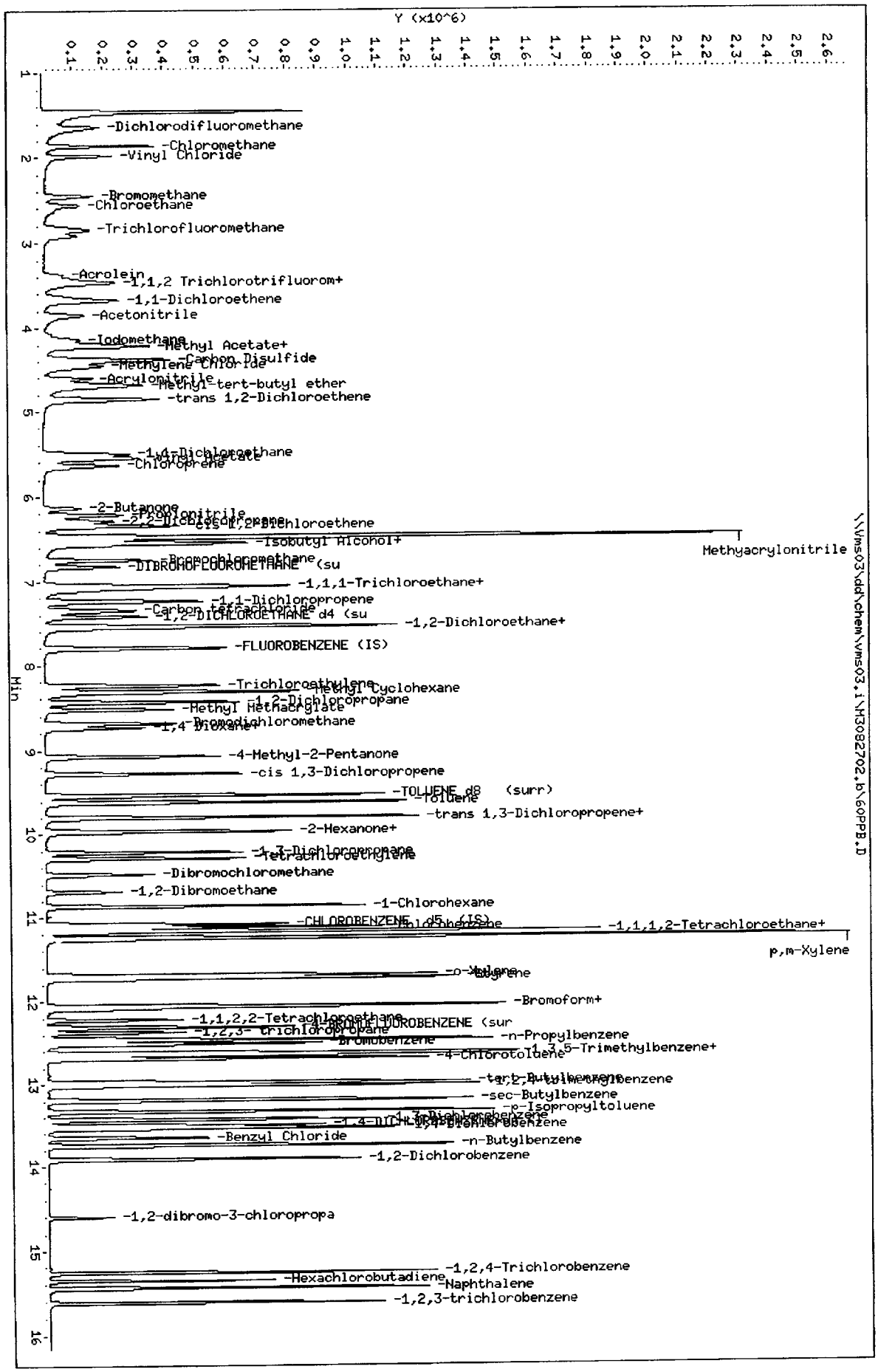
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
42 FLUOROBENZENE (IS	574299	287150	1148598	571941	-0.41
63 CHLOROBENZENE d5	414562	207281	829124	415258	0.17
86 1,4-DICHLOROBENZE	223111	111556	446222	224487	0.62

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
42 FLUOROBENZENE (IS	7.80	7.30	8.30	7.80	-0.01
63 CHLOROBENZENE d5	11.08	10.58	11.58	11.08	-0.01
86 1,4-DICHLOROBENZE	13.50	13.00	14.00	13.50	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\Vms03\dd\chem\vms03.i\M3082702.b\60PPB.D
Date : 27-AUG-2002 09:17
Client ID: 60PPBCAL
Sample Info: 60PPBCAL
Purge Volume: 5.0
Column phase: DB-624

Instrument: vms03.i
Operator:
Column diameter: 0.18



Data File: \\Vms03\dd\chem\vms03.i\M3082702.b\80PPB.D
Report Date: 26-Sep-2002 08:21

PEL Laboratories, Inc.

Data file : \\Vms03\dd\chem\vms03.i\M3082702.b\80PPB.D
Lab Smp Id: 80PPBCAL — Client Smp ID: 80PPBCAL
Inj Date : 27-AUG-2002 09:41 — MS Autotune Date: 29-OCT-2001 10:36
Operator : — Inst ID: vms03.i
Smp Info : 80PPBCAL
Misc Info :
Comment :
Method : \\Vms03\dd\chem\vms03.i\M3082702.b\8260A.m
Meth Date : 26-Sep-2002 08:21 lpelo — Quant Type: ISTD
Cal Date : 27-AUG-2002 09:41 — Cal File: 80PPB.D
Als bottle: 8 — Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP Genie — Compound Sublist: all.sub
Target Version: 4.04 — Sample Matrix: WATER
Processing Host: PELCOMP01

Concentration Formula: Amt * DF * Vf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	Final Volume
Vo	5.000	Sample Volume

RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	TARGET RANGE	RATIO
M 1 1,2-Dichloroethene (Total)						CAS #: 540-59-0		
				761110	160.000	168		
M 2 Xylenes (Total)						CAS #: 1330-20-7		
				2028117	240.000	255		
M 3 Trihalomethanes (Total)						CAS #: THM		
				1357297	80.0000	344		
4 Dichlorodifluoromethane						CAS #: 75-71-8		
1.640	1.640	(0.210)	85	447571	80.0000	81.6	70.00- 130.00	100.00
1.642	1.642	(0.211)	87	142323			1.80- 61.80	31.80
5 Chloromethane						CAS #: 74-87-3		
1.855	1.855	(0.238)	50	512636	80.0000	76.2	70.00- 130.00	100.00

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RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	TARGET RANGE	RATIO
5 Chloromethane (continued)								
1.856	1.856	(0.238)	52	161080			1.42- 61.42	31.42
6 Vinyl Chloride						CAS #: 75-01-4		
1.974	1.974	(0.253)	62	329804	80.0000	68.6	70.00- 130.00	100.00
1.974	1.974	(0.253)	64	101671			0.83- 60.83	30.83
7 Bromomethane						CAS #: 74-83-9		
2.447	2.447	(0.314)	94	207472			70.00- 130.00	100.00
2.447	2.447	(0.314)	96	190572	80.0000	77.1	61.85- 121.85	91.85
8 Chloroethane						CAS #: 75-00-3		
2.555	2.555	(0.328)	64	237592	80.0000	79.0	70.00- 130.00	100.00
2.557	2.557	(0.328)	66	74515			1.36- 61.36	31.36
9 Trichlorofluoromethane						CAS #: 75-69-4		
2.842	2.842	(0.365)	101	349224	80.0000	83.9	70.00- 130.00	100.00
2.839	2.839	(0.364)	103	227439			35.13- 95.13	65.13
2.835	2.835	(0.364)	66	49153			0.00- 44.07	14.07
10 Acrolein						CAS #: 107-02-8		
3.365	3.365	(0.432)	56	102601	160.000	176	70.00- 130.00	100.00(AM)
3.364	3.364	(0.432)	55	68118			36.39- 96.39	66.39
11 1,1,2 Trichlorotrifluoromethane						CAS #: 76-13-1		
3.450	3.450	(0.443)	101	259951	80.0000	81.8	70.00- 130.00	100.00
3.450	3.450	(0.443)	151	197708			46.06- 106.06	76.06
3.454	3.454	(0.443)	103	165415			33.63- 93.63	63.63
12 Acetone						CAS #: 67-64-1		
3.463	3.463	(0.444)	43	188318	160.000	145	70.00- 130.00	100.00
3.462	3.462	(0.444)	58	47302			0.00- 55.12	25.12
13 1,1-Dichloroethene						CAS #: 75-35-4		
3.666	3.666	(0.470)	61	521386	80.0000	84.4	70.00- 130.00	100.00
3.669	3.669	(0.471)	96	245143			17.02- 77.02	47.02
3.667	3.667	(0.470)	98	158347			0.37- 60.37	30.37
14 Acetonitrile						CAS #: 75-05-8		
3.844	3.844	(0.493)	41	411530	800.000	776	70.00- 130.00	100.00
3.843	3.843	(0.493)	40	223110			24.21- 84.21	54.21
3.845	3.845	(0.493)	39	83460			0.00- 50.28	20.28
15 Iodomethane						CAS #: 74-88-4		
4.136	4.136	(0.530)	142	452476	80.0000	81.2	70.00- 130.00	100.00
4.136	4.136	(0.530)	127	181556			10.13- 70.13	40.13

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RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	TARGET RANGE	RATIO
15 Iodomethane (continued)								
4.135	4.135	(0.530)	141	59926			0.00- 43.24	13.24
16 Methyl Acetate						CAS #: 79-20-9		
4.186	4.186	(0.537)	43	274877	80.0000	83.8		
17 Allyl Chloride						CAS #: 107-05-1		
4.213	4.213	(0.540)	41	539129	80.0000	88.1	70.00- 130.00	100.00(A)
4.212	4.212	(0.540)	39	321857			29.70- 89.70	59.70
4.212	4.212	(0.540)	78	42539			0.00- 37.89	7.89
18 Carbon Disulfide						CAS #: 75-15-0		
4.380	4.380	(0.562)	76	1008723	80.0000	81.7	70.00- 130.00	100.00
4.379	4.379	(0.562)	78	91032			0.00- 39.02	9.02
19 Methylene Chloride						CAS #: 75-09-2		
4.452	4.452	(0.571)	84	297703			70.00- 130.00	100.00
4.452	4.452	(0.571)	49	533105	80.0000	79.4	149.07- 209.07	179.07
4.453	4.453	(0.571)	51	154560			21.92- 81.92	51.92
20 Acrylonitrile						CAS #: 107-13-1		
4.602	4.602	(0.590)	53	247006	160.000	169	70.00- 130.00	100.00
4.602	4.602	(0.590)	52	207447			53.98- 113.98	83.98
4.599	4.599	(0.590)	51	101185			10.96- 70.96	40.96
21 Methyl-tert-butyl ether						CAS #: 1634-04-4		
4.681	4.681	(0.600)	73	882199	80.0000	78.7	70.00- 130.00	100.00
4.676	4.676	(0.600)	57	234672			0.00- 56.60	26.60
22 trans 1,2-Dichloroethene						CAS #: 156-60-5		
4.851	4.851	(0.622)	96	266867			70.00- 130.00	100.00
4.851	4.851	(0.622)	61	467353	80.0000	84.1	145.13- 205.13	175.13
4.853	4.853	(0.622)	98	168878			33.28- 93.28	63.28
23 1,1-Dichloroethane						CAS #: 75-34-3		
5.501	5.501	(0.706)	63	583633	80.0000	83.9	70.00- 130.00	100.00
5.501	5.501	(0.706)	65	179775			0.80- 60.80	30.80
5.502	5.502	(0.706)	83	65405			0.00- 41.21	11.21
24 Vinyl Acetate						CAS #: 108-05-4		
5.548	5.548	(0.712)	43	838267	80.0000	82.9	70.00- 130.00	100.00
5.546	5.546	(0.711)	86	58831			0.00- 37.02	7.02
25 Chloroprene						CAS #: 126-99-8		
5.635	5.635	(0.723)	53	341815	80.0000	88.0	70.00- 130.00	100.00(A)
5.637	5.637	(0.723)	88	146511			12.86- 72.86	42.86

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RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	TARGET	RANGE	RATIO
25 Chloroprene (continued)									
5.639	5.639	(0.723)	90	45252			0.00-	43.24	13.24
26 2-Butanone						CAS #: 78-93-3			
6.127	6.127	(0.786)	43	294214	160.000	156	70.00-	130.00	100.00
6.128	6.128	(0.786)	72	55589			0.00-	48.89	18.89
27 Propionitrile						CAS #: 107-12-0			
6.208	6.208	(0.796)	54	465932	800.000	838	70.00-	130.00	100.00
6.208	6.208	(0.796)	52	98632			0.00-	51.17	21.17
6.209	6.209	(0.796)	55	74461			0.00-	45.98	15.98
28 2,2-Dichloropropane						CAS #: 594-20-7			
6.285	6.285	(0.806)	77	276946	80.0000	78.4	70.00-	130.00	100.00
6.285	6.285	(0.806)	79	89274			2.24-	62.24	32.24
6.289	6.289	(0.807)	97	60950			0.00-	52.01	22.01
29 cis-1,2-Dichloroethene						CAS #: 156-59-2			
6.339	6.339	(0.813)	96	293757	80.0000	83.6	70.00-	130.00	100.00
6.337	6.337	(0.813)	61	517369			146.12-	206.12	176.12
6.339	6.339	(0.813)	98	190915			34.99-	94.99	64.99
30 Methyacrylonitrile						CAS #: 126-98-7			
6.471	6.471	(0.830)	67	1133092	800.000	832	70.00-	130.00	100.00
6.471	6.471	(0.830)	66	406276			5.86-	65.86	35.86
6.472	6.472	(0.830)	52	563736			19.75-	79.75	49.75
31 Isobutyl Alcohol						CAS #: 78-83-1			
6.538	6.538	(0.839)	43	300123	1600.00	1750	70.00-	130.00	100.00
6.538	6.538	(0.839)	42	181027			30.32-	90.32	60.32
6.534	6.534	(0.838)	41	305683			71.85-	131.85	101.85
32 Chloroform						CAS #: 67-66-3			
6.547	6.547	(0.840)	83	526233	80.0000	82.9	70.00-	130.00	100.00
6.546	6.546	(0.840)	85	338307			34.29-	94.29	64.29
6.547	6.547	(0.840)	47	154287			0.00-	59.32	29.32
33 Bromochloromethane						CAS #: 74-97-5			
6.740	6.740	(0.864)	128	128556	80.0000	84.1	70.00-	130.00	100.00
6.740	6.740	(0.864)	49	347136			240.03-	300.03	270.03
6.741	6.741	(0.865)	130	169105			101.54-	161.54	131.54
$ 34 DIBROMOFLUOROMETHANE (surr)						CAS #: 1868-53-7			
6.816	6.816	(0.874)	113	231807	80.0000	78.4	70.00-	130.00	100.00
6.816	6.816	(0.874)	111	240623			73.80-	133.80	103.80
6.820	6.820	(0.875)	192	41855			0.00-	48.06	18.06

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RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	TARGET RANGE	RATIO
35 1,1,1-Trichloroethane						CAS #: 71-55-6		
7.042	7.042	(0.903)	97	441475	80.0000	86.1	70.00- 130.00	100.00
7.044	7.044	(0.903)	99	282282			33.94- 93.94	63.94
7.043	7.043	(0.903)	117	45946			0.00- 40.41	10.41
36 Cyclohexane						CAS #: 110-82-7		
7.063	7.063	(0.906)	56	669914	80.0000	85.0	70.00- 130.00	100.00
7.060	7.060	(0.905)	84	461154			38.84- 98.84	68.84
7.063	7.063	(0.906)	41	370315			25.28- 85.28	55.28
37 1,1-Dichloropropene						CAS #: 563-58-6		
7.235	7.235	(0.928)	75	401608	80.0000	83.4	70.00- 130.00	100.00
7.235	7.235	(0.928)	77	124568			1.02- 61.02	31.02
7.237	7.237	(0.928)	110	125148			1.16- 61.16	31.16
38 Carbon tetrachloride						CAS #: 56-23-5		
7.345	7.345	(0.942)	117	360529	80.0000	87.4	70.00- 130.00	100.00
7.344	7.344	(0.942)	119	345364			65.79- 125.79	95.79
7.347	7.347	(0.942)	121	106601			0.00- 59.57	29.57
$ 39 1,2-DICHLOROETHANE d4 (surr)						CAS #: 17060-07-0		
7.420	7.420	(0.952)	102	59697	80.0000	83.6	70.00- 130.00	100.00
7.420	7.420	(0.952)	65	358990			571.35- 631.35	601.35
7.421	7.421	(0.952)	67	180694			272.69- 332.69	302.69
40 1,2-Dichloroethane						CAS #: 107-06-2		
7.530	7.530	(0.966)	62	491605	80.0000	83.9	70.00- 130.00	100.00
7.529	7.529	(0.966)	64	157036			1.94- 61.94	31.94
7.529	7.529	(0.966)	98	34541			0.00- 37.03	7.03
41 Benzene						CAS #: 71-43-2		
7.542	7.542	(0.967)	78	1165930	80.0000	82.6	70.00- 130.00	100.00
7.543	7.543	(0.967)	52	246797			0.00- 51.17	21.17
7.542	7.542	(0.967)	77	273414			0.00- 53.45	23.45
* 42 FLUOROBENZENE (IS)						CAS #: 462-06-6		
7.797	7.797	(1.000)	96	589550	50.0000		70.00- 130.00	100.00
7.797	7.797	(1.000)	70	125099			0.00- 51.22	21.22
7.794	7.794	(1.000)	50	84728			0.00- 44.37	14.37
43 Trichloroethylene						CAS #: 79-01-6		
8.242	8.242	(1.057)	130	270707	80.0000	84.9	70.00- 130.00	100.00
8.242	8.242	(1.057)	95	301771			81.48- 141.48	111.48
8.242	8.242	(1.057)	97	191628			40.79- 100.79	70.79
44 Methyl Cyclohexane						CAS #: 108-87-2		
8.317	8.317	(1.067)	83	517774			70.00- 130.00	100.00

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RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	TARGET RANGE	RATIO
44 Methyl Cyclohexane (continued)								
8.316	8.316	(1.067)	55	513176	80.0000	84.0	69.11- 129.11	99.11
8.316	8.316	(1.067)	41	284925			25.03- 85.03	55.03
45 1,2-Dichloropropane						CAS #: 78-87-5		
8.436	8.436	(1.082)	63	346692	80.0000	86.1	70.00- 130.00	100.00
8.437	8.437	(1.082)	62	252404			42.80- 102.80	72.80
8.438	8.438	(1.082)	76	145956			12.10- 72.10	42.10
46 Methyl Methacrylate						CAS #: 80-62-6		
8.521	8.521	(1.093)	69	208177	80.0000	87.6	70.00- 130.00	100.00
8.520	8.520	(1.093)	41	348613			137.46- 197.46	167.46
47 Bromodichloromethane						CAS #: 75-27-4		
8.686	8.686	(1.114)	83	410980	80.0000	85.9	70.00- 130.00	100.00
8.685	8.685	(1.114)	85	263228			34.05- 94.05	64.05
48 1,4 Dioxane						CAS #: 123-91-1		
8.718	8.718	(1.118)	88	50979	1600.00	1730	70.00- 130.00	100.00
8.718	8.718	(1.118)	58	41165			50.75- 110.75	80.75
8.717	8.717	(1.118)	43	19085			7.44- 67.44	37.44
49 Dibromomethane						CAS #: 74-95-3		
8.736	8.736	(1.120)	93	173606	80.0000	85.0	70.00- 130.00	100.00
8.736	8.736	(1.120)	95	140729			51.06- 111.06	81.06
8.739	8.739	(1.121)	174	157172			60.53- 120.53	90.53
50 4-Methyl-2-Pentanone						CAS #: 108-10-1		
9.065	9.065	(1.163)	43	619230			70.00- 130.00	100.00
9.066	9.066	(1.163)	58	221646	160.000	169	5.79- 65.79	35.79
9.067	9.067	(1.163)	100	66975			0.00- 40.82	10.82
51 2-Hexanone						CAS #: 591-78-6		
9.969	9.969	(0.900)	43	423352	160.000	165	70.00- 130.00	100.00
9.969	9.969	(0.900)	58	205631			18.57- 78.57	48.57
52 cis 1,3-Dichloropropene						CAS #: 10061-01-5		
9.272	9.272	(1.189)	75	494114	80.0000	89.6	70.00- 130.00	100.00(A)
9.272	9.272	(1.189)	77	159124			2.20- 62.20	32.20
9.272	9.272	(1.189)	110	100917			0.00- 50.42	20.42
$ 53 TOLUENE d8 (surr)						CAS #: 2037-26-5		
9.526	9.526	(1.222)	98	1004369	80.0000	80.1	70.00- 130.00	100.00
9.527	9.527	(1.222)	70	115630			0.00- 41.51	11.51
9.526	9.526	(1.222)	100	660596			35.77- 95.77	65.77

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RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	TARGET RANGE	RATIO
54 Toluene						CAS #: 108-88-3		
9.609	9.609	(1.232)	92	697662	80.0000	84.8	70.00- 130.00	100.00
9.609	9.609	(1.232)	91	1174075			138.29- 198.29	168.29
9.608	9.608	(1.232)	65	157746			0.00- 52.61	22.61
55 trans 1,3-Dichloropropene						CAS #: 10061-02-6		
9.794	9.794	(1.256)	75	467253	80.0000	92.4	70.00- 130.00	100.00(A)
9.794	9.794	(1.256)	77	146788			1.42- 61.42	31.42
9.794	9.794	(1.256)	110	95880			0.00- 50.52	20.52
56 Ethyl Methacrylate						CAS #: 97-63-2		
9.793	9.793	(1.256)	69	375947	80.0000	87.2	70.00- 130.00	100.00
9.792	9.792	(1.256)	99	70542			0.00- 48.76	18.76
57 1,1,2-Trichloroethane						CAS #: 79-00-5		
9.955	9.955	(1.277)	97	243730	80.0000	83.4	70.00- 130.00	100.00
9.954	9.954	(1.277)	83	210834			56.50- 116.50	86.50
9.955	9.955	(1.277)	85	163408			37.04- 97.04	67.04
58 1,3-Dichloropropane						CAS #: 142-28-9		
10.213	10.213	(0.922)	76	464686	80.0000	84.0	70.00- 130.00	100.00
10.213	10.213	(0.922)	78	147558			1.75- 61.75	31.75
10.214	10.214	(0.922)	63	53403			0.00- 41.49	11.49
59 Tetrachloroethylene						CAS #: 127-18-4		
10.284	10.284	(0.928)	164	206722	80.0000	83.2	70.00- 130.00	100.00
10.284	10.284	(0.928)	129	203300			68.34- 128.34	98.34
10.284	10.284	(0.928)	166	264369			97.89- 157.89	127.89
60 Dibromochloromethane						CAS #: 124-48-1		
10.482	10.482	(0.946)	129	263946	80.0000	93.4	70.00- 130.00	100.00(A)
10.482	10.482	(0.946)	127	200687			46.03- 106.03	76.03
61 1,2-Dibromoethane						CAS #: 106-93-4		
10.688	10.688	(0.965)	107	243622	80.0000	86.2	70.00- 130.00	100.00
10.689	10.689	(0.965)	109	231229			64.91- 124.91	94.91
62 1-Chlorohexane						CAS #: 544-10-5		
10.858	10.858	(0.980)	91	385357	80.0000	89.5	70.00- 130.00	100.00(A)
10.858	10.858	(0.980)	55	350344			60.91- 120.91	90.91
10.857	10.857	(0.980)	56	207884			23.95- 83.95	53.95
* 63 CHLOROBENZENE d5 (IS)						CAS #: 3114-55-4		
11.078	11.078	(1.000)	117	419385	50.0000		70.00- 130.00	100.00
11.078	11.078	(1.000)	119	135871			2.40- 62.40	32.40
11.078	11.078	(1.000)	82	263923			32.93- 92.93	62.93

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RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	TARGET RANGE	RATIO
64 Chlorobenzene						CAS #: 108-90-7		
11.117	11.117	(1.003)	112	736283	80.0000	85.2	70.00- 130.00	100.00
11.117	11.117	(1.004)	114	234845			1.90- 61.90	31.90
11.116	11.116	(1.003)	77	502681			38.27- 98.27	68.27
65 1,1,1,2-Tetrachloroethane						CAS #: 630-20-6		
11.159	11.159	(1.007)	131	245115	80.0000	90.2	70.00- 130.00	100.00(A)
11.159	11.159	(1.007)	117	165899			37.68- 97.68	67.68
11.159	11.159	(1.007)	95	103709			12.31- 72.31	42.31
66 Ethylbenzene						CAS #: 100-41-4		
11.171	11.171	(1.008)	106	393263	80.0000	85.1	70.00- 130.00	100.00
11.171	11.171	(1.008)	91	1318591			305.29- 365.29	335.29
11.170	11.170	(1.008)	77	129925			3.04- 63.04	33.04
67 p,m-Xylene						CAS #: 511-39-00		
11.249	11.249	(1.015)	106	966011	160.000	170	70.00- 130.00	100.00
11.249	11.249	(1.015)	91	2091772			186.54- 246.54	216.54
11.249	11.249	(1.015)	105	441949			15.75- 75.75	45.75
68 o-Xylene						CAS #: 95-47-6		
11.690	11.690	(1.055)	91	1062106	80.0000	85.6	70.00- 130.00	100.00
11.691	11.691	(1.055)	106	470620			14.31- 74.31	44.31
11.691	11.691	(1.055)	77	113226			0.00- 40.66	10.66
69 Styrene						CAS #: 100-42-5		
11.723	11.723	(1.058)	104	851580	80.0000	88.0	70.00- 130.00	100.00(A)
11.723	11.723	(1.058)	103	453791			23.29- 83.29	53.29
11.723	11.723	(1.058)	78	501358			28.87- 88.87	58.87
70 Bromoform						CAS #: 75-25-2		
12.065	12.065	(1.089)	173	156138	80.0000	82.0	70.00- 130.00	100.00
12.065	12.065	(1.089)	175	72781			16.61- 76.61	46.61
71 1-Methylethylbenzene						CAS #: 98-82-8		
12.052	12.052	(0.893)	105	1255242	80.0000	84.5	70.00- 130.00	100.00
12.053	12.053	(0.893)	120	315061			0.00- 55.10	25.10
12.051	12.051	(0.892)	77	246554			0.00- 49.64	19.64
72 1,4-Dichloro-2-Butene						CAS #: 110-57-6		
12.090	12.090	(0.895)	53	110228	160.000	162	70.00- 130.00	100.00
12.090	12.090	(0.895)	75	93880			55.17- 115.17	85.17
12.092	12.092	(0.895)	89	41756			7.88- 67.88	37.88
73 1,1,2,2-Tetrachloroethane						CAS #: 79-34-5		
12.217	12.217	(0.905)	83	312215	80.0000	81.8	70.00- 130.00	100.00

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RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	TARGET RANGE	RATIO
73 1,1,2,2-Tetrachloroethane (continued)								
12.217	12.217	(0.905)	85	202859			34.97- 94.97	64.97
12.220	12.220	(0.905)	133	27711			0.00- 38.88	8.88
$ 74 4-BROMOFLUOROBENZENE (surr)						CAS #: 460-00-4		
12.303	12.303	(0.911)	95	390718	80.0000	80.2	70.00- 130.00	100.00
12.305	12.305	(0.911)	174	269447			38.96- 98.96	68.96
12.305	12.305	(0.911)	176	261125			36.83- 96.83	66.83
75 1,2,3- trichloropropane						CAS #: 96-18-4		
12.366	12.366	(0.916)	75	272723			70.00- 130.00	100.00
12.365	12.365	(0.916)	77	86882			1.86- 61.86	31.86
12.367	12.367	(0.916)	110	95045	80.0000	81.9	4.85- 64.85	34.85
76 n-Propylbenzene						CAS #: 103-65-1		
12.458	12.458	(0.923)	91	1587548	80.0000	85.9	70.00- 130.00	100.00
12.457	12.457	(0.922)	92	169962			0.00- 40.71	10.71
12.459	12.459	(0.923)	120	340472			0.00- 51.45	21.45
77 Bromobenzene						CAS #: 108-86-1		
12.503	12.503	(0.926)	77	608033	80.0000	84.7	70.00- 130.00	100.00
12.505	12.505	(0.926)	156	309591			20.92- 80.92	50.92
12.505	12.505	(0.926)	158	298251			19.05- 79.05	49.05
78 1,3,5-Trimethylbenzene						CAS #: 108-67-8		
12.616	12.616	(0.934)	105	1090109	80.0000	84.5	70.00- 130.00	100.00
12.617	12.617	(0.934)	120	507691			16.57- 76.57	46.57
12.616	12.616	(0.934)	77	154363			0.00- 44.16	14.16
79 2-Chlorotoluene						CAS #: 95-49-8		
12.639	12.639	(0.936)	91	1080590	80.0000	82.9	70.00- 130.00	100.00
12.640	12.640	(0.936)	126	284358			0.00- 56.32	26.32
12.638	12.638	(0.936)	63	195560			0.00- 48.10	18.10
80 4-Chlorotoluene						CAS #: 106-43-4		
12.685	12.685	(0.939)	91	1029808	80.0000	83.6	70.00- 130.00	100.00
12.686	12.686	(0.939)	126	298931			0.00- 59.03	29.03
12.686	12.686	(0.939)	63	147521			0.00- 44.33	14.33
81 tert-Butylbenzene						CAS #: 98-06-6		
12.978	12.978	(0.961)	119	1044870	80.0000	86.8	70.00- 130.00	100.00
12.978	12.978	(0.961)	91	795801			46.16- 106.16	76.16
12.979	12.979	(0.961)	134	213023			0.00- 50.39	20.39
82 1,2,4-trimethylbenzene						CAS #: 95-63-6		
13.015	13.015	(0.964)	105	1090925	80.0000	86.1	70.00- 130.00	100.00

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RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	TARGET RANGE	RATIO
82 1,2,4-trimethylbenzene (continued)								
13.016	13.016	(0.964)	120	495238			15.40- 75.40	45.40
13.015	13.015	(0.964)	77	156397			0.00- 44.34	14.34
83 sec-Butylbenzene						CAS #: 135-98-8		
13.194	13.194	(0.977)	105	1328697	80.0000	85.3	70.00- 130.00	100.00
13.195	13.195	(0.977)	134	244471			0.00- 48.40	18.40
13.194	13.194	(0.977)	91	222550			0.00- 46.75	16.75
84 p-Isopropyltoluene						CAS #: 99-87-6		
13.331	13.331	(0.987)	119	1151492	80.0000	87.3	70.00- 130.00	100.00
13.331	13.331	(0.987)	134	284054			0.00- 54.67	24.67
13.330	13.330	(0.987)	91	300235			0.00- 56.07	26.07
85 1,3-Dichlorobenzene						CAS #: 541-73-1		
13.431	13.431	(0.995)	146	586624	80.0000	83.0	70.00- 130.00	100.00
13.430	13.430	(0.995)	148	373478			33.67- 93.67	63.67
13.430	13.430	(0.995)	111	260319			14.38- 74.38	44.38
* 86 1,4-DICHLOROBENZENE-d4 (IS)						CAS #: 3855-82-1		
13.504	13.504	(1.000)	152	228808	50.0000		70.00- 130.00	100.00
13.504	13.504	(1.000)	150	418825			153.05- 213.05	183.05
13.503	13.503	(1.000)	115	145902			33.77- 93.77	63.77
87 1,4-Dichlorobenzene						CAS #: 106-46-7		
13.537	13.537	(1.002)	146	601229	80.0000	83.5	70.00- 130.00	100.00
13.537	13.537	(1.002)	148	384297			33.92- 93.92	63.92
13.536	13.536	(1.002)	111	256121			12.60- 72.60	42.60
88 Benzyl Chloride						CAS #: 100-44-7		
13.649	13.649	(1.011)	91	531432	80.0000	81.3	70.00- 130.00	100.00
13.649	13.649	(1.011)	65	72711			0.00- 43.68	13.68
89 n-Butylbenzene						CAS #: 104-51-8		
13.745	13.745	(1.018)	91	1036209	80.0000	86.8	70.00- 130.00	100.00
13.745	13.745	(1.018)	92	570387			25.05- 85.05	55.05
13.746	13.746	(1.018)	134	253496			0.00- 54.46	24.46
90 1,2-Dichlorobenzene						CAS #: 95-50-1		
13.913	13.913	(1.030)	146	546707	80.0000	82.0	70.00- 130.00	100.00
13.913	13.913	(1.030)	148	346986			33.47- 93.47	63.47
13.913	13.913	(1.030)	111	252893			16.26- 76.26	46.26
91 1,2-dibromo-3-chloropropane						CAS #: 96-12-8		
14.601	14.601	(1.081)	75	68061	80.0000	80.9	70.00- 130.00	100.00
14.603	14.603	(1.081)	155	50041			43.52- 103.52	73.52

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RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	TARGET RANGE	RATIO
91 1,2-dibromo-3-chloropropane (continued)								
14.603	14.603	(1.081)	157	62780			62.24- 122.24	92.24
92 1,2,4-Trichlorobenzene						CAS #: 120-82-1		
15.266	15.266	(1.131)	180	395793	80.0000	85.0	70.00- 130.00	100.00
15.266	15.266	(1.131)	182	373136			64.28- 124.28	94.28
15.266	15.266	(1.130)	145	125755			1.77- 61.77	31.77
93 Hexachlorobutadiene						CAS #: 87-68-3		
15.365	15.365	(1.138)	225	143772			70.00- 130.00	100.00
15.364	15.364	(1.138)	223	88503	80.0000	85.2	31.56- 91.56	61.56
15.365	15.365	(1.138)	227	90694			33.08- 93.08	63.08
94 Naphthalene						CAS #: 91-20-3		
15.451	15.451	(1.144)	128	918290	80.0000	86.6	70.00- 130.00	100.00
15.451	15.451	(1.144)	127	119712			0.00- 43.04	13.04
15.451	15.451	(1.144)	129	100031			0.00- 40.89	10.89
95 1,2,3-trichlorobenzene						CAS #: 87-61-6		
15.620	15.620	(1.157)	180	354953	80.0000	85.2	70.00- 130.00	100.00
15.620	15.620	(1.157)	182	337524			65.09- 125.09	95.09
15.619	15.619	(1.157)	145	120579			3.97- 63.97	33.97

QC Flag Legend

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

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PEL Laboratories, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vms03.i
Lab File ID: 80PPB.D
Lab Smp Id: 80PPBCAL
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\Vms03\dd\chem\vms03.i\M3082702.b\8260A.m
Misc Info:

Calibration Date: 27-AUG-2002
Calibration Time: 08:53
Client Smp ID: 80PPBCAL
Level: LOW
Sample Type: WATER

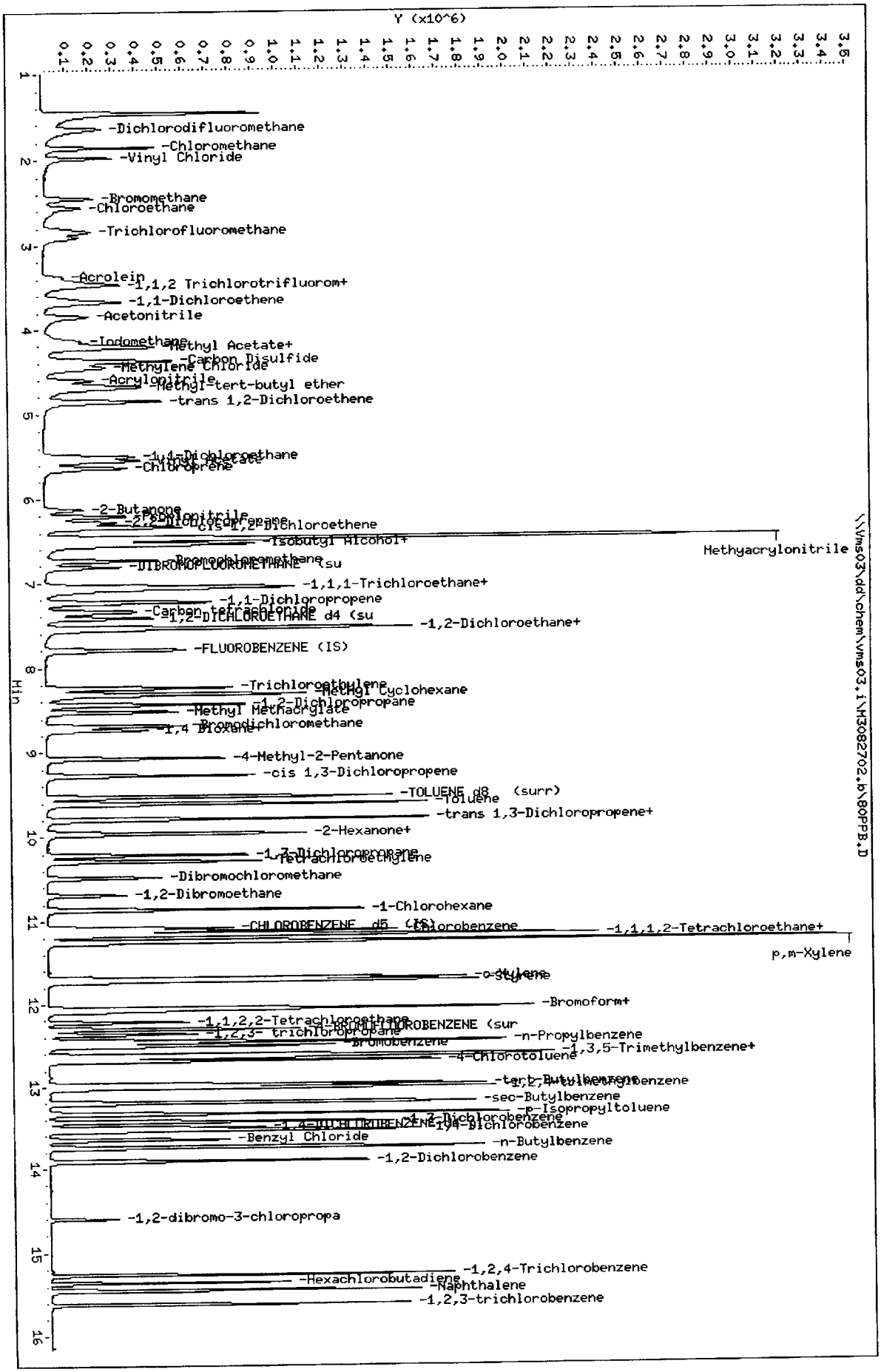
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
42 FLUOROBENZENE (IS	574299	287150	1148598	589550	2.66
63 CHLOROBENZENE d5	414562	207281	829124	419385	1.16
86 1,4-DICHLOROBENZE	223111	111556	446222	228808	2.55

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
42 FLUOROBENZENE (IS	7.80	7.30	8.30	7.80	-0.03
63 CHLOROBENZENE d5	11.08	10.58	11.58	11.08	-0.00
86 1,4-DICHLOROBENZE	13.50	13.00	14.00	13.50	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\Vms03\dd\chem\vms03.i\M3082702.b\80PPB.D
Date : 27-AUG-2002 09:41
Client ID: 80PPBCAL
Sample Info: 80PPBCAL
Purge Volume: 5.0
Column phase: DB-624

Instrument: vms03.i
Operator:
Column diameter: 0.18



Data File: \\Vms03\dd\chem\vms03.i\M3082702.b\SEC32.D
Report Date: 26-Sep-2002 08:21

PEL Laboratories, Inc.

Data file : \\Vms03\dd\chem\vms03.i\M3082702.b\SEC32.D
Lab Smp Id: SEC32 — Client Smp ID: SEC32
Inj Date : 27-AUG-2002 10:28 — MS Autotune Date: 29-OCT-2001 10:36
Operator : — Inst ID: vms03.i
Smp Info : 50PPB
Misc Info :
Comment :
Method : \\VMS03\dd\chem\vms03.i\M3082702.b\8260A.m
Meth Date : 26-Sep-2002 08:21 lpelo — Quant Type: ISTD
Cal Date : 27-AUG-2002 09:41 — Cal File: 80PPB.D
Als bottle: 10 — QC Sample: SSC
Dil Factor: 1.00000
Integrator: HP Genie — Compound Sublist: all.sub
Target Version: 4.04 — Sample Matrix: WATER
Processing Host: PELCOMP01

Concentration Formula: Amt * DF * Vf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	Final Volume
Vo	5.000	Sample Volume

	RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/1)	FINAL (ug/1)	TARGET RANGE	RATIO
M	1 1,2-Dichloroethene (Total)						CAS #: 540-59-0		
					478155	106.187	106		
M	2 Xylenes (Total)						CAS #: 1330-20-7		
					1271458	160.619	161		
M	3 Trihalomethanes (Total)						CAS #: THM		
					822067	207.980	208		
	4 Dichlorodifluoromethane						CAS #: 75-71-8		
1.640		1.640	(0.210)	85	280545	51.5826	51.6	70.00- 130.00	100.00
1.637		1.642	(0.210)	87	91531			1.80- 61.80	32.63
	5 Chloromethane						CAS #: 74-87-3		
1.856		1.855	(0.238)	50	316577	47.4961	47.5	70.00- 130.00	100.00

		MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/l)	FINAL (ug/l)	TARGET RANGE	RATIO
	(continued)						
1.85	8)	52	102964			1.42- 61.42	32.52
					CAS #: 75-01-4		
1.97	54)	62	212332	44.5630	44.6	70.00- 130.00	100.00
1.97	4)	64	65727			0.83- 60.83	30.95
					CAS #: 74-83-9		
2.44	4)	94	131179			70.00- 130.00	100.00
2.45	4)	96	123292	50.3176	50.3	61.85- 121.85	93.99
					CAS #: 75-00-3		
2.55	8)	64	150489	50.4543	50.4	70.00- 130.00	100.00
2.56	9)	66	47679			1.36- 61.36	31.68
	omethane				CAS #: 75-69-4		
2.84	5)	101	219653	53.2419	53.2	70.00- 130.00	100.00
2.84	5)	103	141678			35.13- 95.13	64.50
2.84	5)	66	30168			0.00- 44.07	13.73
1					CAS #: 107-02-8		
3.36	31)	56	46661	80.8036	80.8	70.00- 130.00	100.00
3.36	1)	55	32913			36.39- 96.39	70.54
11	ocrifluoromethane				CAS #: 76-13-1		
3.45	43)	101	169301	53.7232	53.7	70.00- 130.00	100.00
3.456	3)	151	129819			46.06- 106.06	76.68
3.450	2)	103	107797			33.63- 93.63	63.67
12					CAS #: 67-64-1		
3.466	44)	43	100776	78.2744	78.3	70.00- 130.00	100.00
3.469	45)	58	24777			0.00- 55.12	24.59
13	ene				CAS #: 75-35-4		
3.671	71)	61	316593	51.6783	51.7	70.00- 130.00	100.00
3.673	71)	96	153426			17.02- 77.02	48.46
3.672	1)	98	97761			0.37- 60.37	30.88
14					CAS #: 75-05-8		
3.851	94)	41	261353	497.452	497	70.00- 130.00	100.00
3.847	93)	40	132218			24.21- 84.21	50.59
3.849	94)	39	47463			0.00- 50.28	18.16
15 I					CAS #: 74-88-4		
4.139	531)	142	283428	51.2886	51.3	70.00- 130.00	100.00
4.138	(0.531)	127	113062			10.13- 70.13	39.89

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RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/l)	FINAL (ug/l)	TARGET RANGE	RATIO
15 Iodomethane (continued)								
4.139	4.135	(0.531)	141	38783			0.00- 43.24	13.68
16 Methyl Acetate						CAS #: 79-20-9		
4.194	4.186	(0.538)	43	169562	52.1371	52.1		
17 Allyl Chloride						CAS #: 107-05-1		
4.218	4.213	(0.541)	41	317513	52.3308	52.3	70.00- 130.00	100.00
4.218	4.212	(0.541)	39	196632			29.70- 89.70	61.93
4.219	4.212	(0.541)	78	24766			0.00- 37.89	7.80
18 Carbon Disulfide						CAS #: 75-15-0		
4.384	4.380	(0.562)	76	623141	50.9005	50.9	70.00- 130.00	100.00
4.387	4.379	(0.563)	78	57392			0.00- 39.02	9.21
19 Methylene Chloride						CAS #: 75-09-2		
4.458	4.452	(0.572)	84	125190			70.00- 130.00	100.00(Q)
4.456	4.452	(0.571)	49	329686	49.5517	49.6	149.07- 209.07	263.35
4.456	4.453	(0.571)	51	65410			21.92- 81.92	52.25
20 Acrylonitrile						CAS #: 107-13-1		
4.607	4.602	(0.591)	53	129615	89.4178	89.4	70.00- 130.00	100.00
4.608	4.602	(0.591)	52	106643			53.98- 113.98	82.28
4.608	4.599	(0.591)	51	46373			10.96- 70.96	35.78
21 Methyl-tert-butyl ether						CAS #: 1634-04-4		
4.684	4.681	(0.601)	73	565781	50.9299	50.9	70.00- 130.00	100.00
4.682	4.676	(0.600)	57	146427			0.00- 56.60	25.88
22 trans 1,2-Dichloroethene						CAS #: 156-60-5		
4.858	4.851	(0.623)	96	165315			70.00- 130.00	100.00
4.858	4.851	(0.623)	61	294672	53.4909	53.5	145.13- 205.13	178.25
4.857	4.853	(0.623)	98	105909			33.28- 93.28	64.06
23 1,1-Dichloroethane						CAS #: 75-34-3		
5.505	5.501	(0.706)	63	366669	53.1492	53.1	70.00- 130.00	100.00
5.507	5.501	(0.706)	65	110890			0.80- 60.80	30.24
5.506	5.502	(0.706)	83	42586			0.00- 41.21	11.61
24 Vinyl Acetate						CAS #: 108-05-4		
5.554	5.548	(0.712)	43	511491	51.0459	51.0	70.00- 130.00	100.00
5.552	5.546	(0.712)	86	36334			0.00- 37.02	7.10
25 Chloroprene						CAS #: 126-99-8		
5.640	5.635	(0.723)	53	208949	54.2994	54.3	70.00- 130.00	100.00
5.641	5.637	(0.723)	88	91508			12.86- 72.86	43.79

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RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/l)	CONCENTRATIONS FINAL (ug/l)	TARGET RANGE	RATIO
25 Chloroprene (continued)								
5.642	5.639	(0.723)	90	28515			0.00- 43.24	13.65
26 2-Butanone						CAS #: 78-93-3		
6.133	6.127	(0.786)	43	147756	79.3211	79.3	70.00- 130.00	100.00
6.132	6.128	(0.786)	72	28156			0.00- 48.89	19.06
27 Propionitrile						CAS #: 107-12-0		
6.212	6.208	(0.797)	54	291288	528.381	528	70.00- 130.00	100.00
6.212	6.208	(0.797)	52	61003			0.00- 51.17	20.94
6.211	6.209	(0.796)	55	46564			0.00- 45.98	15.99
28 2,2-Dichloropropane						CAS #: 594-20-7		
6.291	6.285	(0.807)	77	187777	53.6538	53.6	70.00- 130.00	100.00
6.291	6.285	(0.807)	79	59413			2.24- 62.24	31.64
6.289	6.289	(0.806)	97	40099			0.00- 52.01	21.35
29 cis-1,2-Dichloroethene						CAS #: 156-59-2		
6.342	6.339	(0.813)	96	183483	52.6960	52.7	70.00- 130.00	100.00
6.341	6.337	(0.813)	61	326277			146.12- 206.12	177.82
6.340	6.339	(0.813)	98	117682			34.99- 94.99	64.14
30 Methyacrylonitrile						CAS #: 126-98-7		
6.474	6.471	(0.830)	67	702512	520.442	520	70.00- 130.00	100.00
6.473	6.471	(0.830)	66	249551			5.86- 65.86	35.52
6.473	6.472	(0.830)	52	346749			19.75- 79.75	49.36
31 Isobutyl Alcohol						CAS #: 78-83-1		
6.542	6.538	(0.839)	43	185046	1086.64	1090	70.00- 130.00	100.00
6.538	6.538	(0.838)	42	118024			30.32- 90.32	63.78
6.538	6.534	(0.838)	41	193912			71.85- 131.85	104.79
32 Chloroform						CAS #: 67-66-3		
6.548	6.547	(0.840)	83	326811	51.9114	51.9	70.00- 130.00	100.00
6.549	6.546	(0.840)	85	214078			34.29- 94.29	65.51
6.548	6.547	(0.840)	47	93994			0.00- 59.32	28.76
33 Bromochloromethane						CAS #: 74-97-5		
6.745	6.740	(0.865)	128	81114	53.5258	53.5	70.00- 130.00	100.00
6.743	6.740	(0.865)	49	210025			240.03- 300.03	258.93
6.745	6.741	(0.865)	130	105997			101.54- 161.54	130.68
$ 34 DIBROMOFLUOROMETHANE (surr)						CAS #: 1868-53-7		
6.819	6.816	(0.874)	113	140715	47.9953	48.0	70.00- 130.00	100.00
6.819	6.816	(0.874)	111	146946			73.80- 133.80	104.43
6.820	6.820	(0.875)	192	25765			0.00- 48.06	18.31

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RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/l)	CONCENTRATIONS FINAL (ug/l)	TARGET RANGE	RATIO
35 1,1,1-Trichloroethane						CAS #: 71-55-6		
7.046	7.042	(0.903)	97	268750	52.8647	52.9	70.00- 130.00	100.00
7.046	7.044	(0.903)	99	173751			33.94- 93.94	64.65
7.047	7.043	(0.904)	117	30728			0.00- 40.41	11.43
36 Cyclohexane						CAS #: 110-82-7		
7.067	7.063	(0.906)	56	406687	52.0649	52.1	70.00- 130.00	100.00
7.067	7.060	(0.906)	84	285008			38.84- 98.84	70.08
7.065	7.063	(0.906)	41	249484			25.28- 85.28	61.35
37 1,1-Dichloropropene						CAS #: 563-58-6		
7.238	7.235	(0.928)	75	254310	53.2780	53.3	70.00- 130.00	100.00
7.239	7.235	(0.928)	77	78966			1.02- 61.02	31.05
7.239	7.237	(0.928)	110	79586			1.16- 61.16	31.29
38 Carbon tetrachloride						CAS #: 56-23-5		
7.347	7.345	(0.942)	117	219365	53.6285	53.6	70.00- 130.00	100.00
7.349	7.344	(0.942)	119	207889			65.79- 125.79	94.77
7.350	7.347	(0.942)	121	66598			0.00- 59.57	30.36
$ 39 1,2-DICHLOROETHANE d4 (surr)						CAS #: 17060-07-0		
7.424	7.420	(0.952)	102	35519	50.1727	50.2	70.00- 130.00	100.00
7.422	7.420	(0.952)	65	223315			571.35- 631.35	628.72
7.423	7.421	(0.952)	67	111383			272.69- 332.69	313.59
40 1,2-Dichloroethane						CAS #: 107-06-2		
7.532	7.530	(0.966)	62	309132	53.2179	53.2	70.00- 130.00	100.00
7.532	7.529	(0.966)	64	97731			1.94- 61.94	31.61
7.533	7.529	(0.966)	98	21825			0.00- 37.03	7.06
41 Benzene						CAS #: 71-43-2		
7.545	7.542	(0.967)	78	723316	51.6972	51.7	70.00- 130.00	100.00
7.544	7.543	(0.967)	52	153870			0.00- 51.17	21.27
7.544	7.542	(0.967)	77	168854			0.00- 53.45	23.34
* 42 FLUOROBENZENE (IS)						CAS #: 462-06-6		
7.799	7.797	(1.000)	96	584419	50.0000		70.00- 130.00	100.00
7.798	7.797	(1.000)	70	124622			0.00- 51.22	21.32
7.798	7.794	(1.000)	50	85557			0.00- 44.37	14.64
43 Trichloroethylene						CAS #: 79-01-6		
8.244	8.242	(1.057)	130	167966	53.1686	53.2	70.00- 130.00	100.00
8.244	8.242	(1.057)	95	186277			81.48- 141.48	110.90
8.243	8.242	(1.057)	97	118513			40.79- 100.79	70.56
44 Methyl Cyclohexane						CAS #: 108-87-2		
8.319	8.317	(1.067)	83	323353			70.00- 130.00	100.00

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RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/l)	FINAL (ug/l)	TARGET RANGE	RATIO
44 Methyl Cyclohexane (continued)								
8.318	8.316	(1.067)	55	322911	53.3099	53.3	69.11- 129.11	99.86
8.319	8.316	(1.067)	41	179540			25.03- 85.03	55.52
45 1,2-Dichloropropane						CAS #: 78-87-5		
8.438	8.436	(1.082)	63	211152	52.8989	52.9	70.00- 130.00	100.00
8.438	8.437	(1.082)	62	154567			42.80- 102.80	73.20
8.439	8.438	(1.082)	76	90011			12.10- 72.10	42.63
46 Methyl Methacrylate						CAS #: 80-62-6		
8.522	8.521	(1.093)	69	126233	53.6124	53.6	70.00- 130.00	100.00
8.522	8.520	(1.093)	41	212499			137.46- 197.46	168.34
47 Bromodichloromethane						CAS #: 75-27-4		
8.687	8.686	(1.114)	83	249082	52.5279	52.5	70.00- 130.00	100.00
8.687	8.685	(1.114)	85	161662			34.05- 94.05	64.90
48 1,4 Dioxane						CAS #: 123-91-1		
8.723	8.718	(1.118)	88	31599	1080.61	1080	70.00- 130.00	100.00
8.723	8.718	(1.118)	58	24650			50.75- 110.75	78.01
8.720	8.717	(1.118)	43	11081			7.44- 67.44	35.07
49 Dibromomethane						CAS #: 74-95-3		
8.738	8.736	(1.120)	93	106284	52.5282	52.5	70.00- 130.00	100.00
8.739	8.736	(1.121)	95	85689			51.06- 111.06	80.62
8.739	8.739	(1.121)	174	98552			60.53- 120.53	92.73
50 4-Methyl-2-Pentanone						CAS #: 108-10-1		
9.067	9.065	(1.163)	43	314428			70.00- 130.00	100.00
9.067	9.066	(1.163)	58	111649	85.8782	85.9	5.79- 65.79	35.51
9.069	9.067	(1.163)	100	33966			0.00- 40.82	10.80
51 2-Hexanone						CAS #: 591-78-6		
9.971	9.969	(0.900)	43	223004	87.3027	87.3	70.00- 130.00	100.00
9.971	9.969	(0.900)	58	106541			18.57- 78.57	47.78
52 cis 1,3-Dichloropropene						CAS #: 10061-01-5		
9.273	9.272	(1.189)	75	304053	55.5902	55.6	70.00- 130.00	100.00
9.274	9.272	(1.189)	77	97489			2.20- 62.20	32.06
9.273	9.272	(1.189)	110	61926			0.00- 50.42	20.37
$ 53 TOLUENE d8 (surr)						CAS #: 2037-26-5		
9.528	9.526	(1.222)	98	616667	49.6290	49.6	70.00- 130.00	100.00
9.528	9.527	(1.222)	70	73285			0.00- 41.51	11.88
9.528	9.526	(1.222)	100	401280			35.77- 95.77	65.07

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RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/l)	FINAL (ug/l)	TARGET RANGE	RATIO
54 Toluene						CAS #: 108-88-3		
9.610	9.609	(1.232)	92	426991	52.3455	52.3	70.00- 130.00	100.00
9.609	9.609	(1.232)	91	729921			138.29- 198.29	170.95
9.609	9.608	(1.232)	65	96897			0.00- 52.61	22.69
55 trans 1,3-Dichloropropene						CAS #: 10061-02-6		
9.795	9.794	(1.256)	75	285228	56.9062	56.9	70.00- 130.00	100.00
9.795	9.794	(1.256)	77	92695			1.42- 61.42	32.50
9.795	9.794	(1.256)	110	59594			0.00- 50.52	20.89
56 Ethyl Methacrylate						CAS #: 97-63-2		
9.792	9.793	(1.256)	69	233460	54.6120	54.6	70.00- 130.00	100.00
9.793	9.792	(1.256)	99	43642			0.00- 48.76	18.69
57 1,1,2-Trichloroethane						CAS #: 79-00-5		
9.955	9.955	(1.276)	97	149883	51.7387	51.7	70.00- 130.00	100.00
9.955	9.954	(1.276)	83	130725			56.50- 116.50	87.22
9.955	9.955	(1.276)	85	96427			37.04- 97.04	64.33
58 1,3-Dichloropropane						CAS #: 142-28-9		
10.215	10.213	(0.922)	76	288825	52.3756	52.4	70.00- 130.00	100.00
10.214	10.213	(0.922)	78	93042			1.75- 61.75	32.21
10.214	10.214	(0.922)	63	32374			0.00- 41.49	11.21
59 Tetrachloroethylene						CAS #: 127-18-4		
10.285	10.284	(0.928)	164	129271	52.1670	52.2	70.00- 130.00	100.00
10.286	10.284	(0.928)	129	126530			68.34- 128.34	97.88
10.285	10.284	(0.928)	166	164775			97.89- 157.89	127.46
60 Dibromochloromethane						CAS #: 124-48-1		
10.483	10.482	(0.946)	129	155500	55.1835	55.2	70.00- 130.00	100.00
10.483	10.482	(0.946)	127	119785			46.03- 106.03	77.03
61 1,2-Dibromoethane						CAS #: 106-93-4		
10.689	10.688	(0.965)	107	146530	51.9898	52.0	70.00- 130.00	100.00
10.688	10.689	(0.965)	109	140962			64.91- 124.91	96.20
62 1-Chlorohexane						CAS #: 544-10-5		
10.859	10.858	(0.980)	91	239846	55.8742	55.9	70.00- 130.00	100.00
10.858	10.858	(0.980)	55	218356			60.91- 120.91	91.04
10.858	10.857	(0.980)	56	129384			23.95- 83.95	53.94
* 63 CHLOROBENZENE d5 (IS)						CAS #: 3114-55-4		
11.078	11.078	(1.000)	117	418221	50.0000		70.00- 130.00	100.00
11.079	11.078	(1.000)	119	135512			2.40- 62.40	32.40
11.078	11.078	(1.000)	82	261517			32.93- 92.93	62.53

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RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/l)	FINAL (ug/l)	TARGET RANGE	RATIO
64 Chlorobenzene						CAS #: 108-90-7		
11.117	11.117	(1.003)	112	461315	53.5432	53.5	70.00- 130.00	100.00
11.117	11.117	(1.003)	114	146136			1.90- 61.90	31.68
11.116	11.116	(1.003)	77	313980			38.27- 98.27	68.06
65 1,1,1,2-Tetrachloroethane						CAS #: 630-20-6		
11.160	11.159	(1.007)	131	150242	55.4340	55.4	70.00- 130.00	100.00
11.159	11.159	(1.007)	117	101650			37.68- 97.68	67.66
11.159	11.159	(1.007)	95	63862			12.31- 72.31	42.51
66 Ethylbenzene						CAS #: 100-41-4		
11.173	11.171	(1.009)	106	246592	53.4865	53.5	70.00- 130.00	100.00
11.171	11.171	(1.008)	91	833779			305.29- 365.29	338.12
11.171	11.170	(1.008)	77	81063			3.04- 63.04	32.87
67 p,m-Xylene						CAS #: 511-39-00		
11.249	11.249	(1.015)	106	607961	106.978	107	70.00- 130.00	100.00
11.249	11.249	(1.015)	91	1332815			186.54- 246.54	219.23
11.249	11.249	(1.015)	105	282955			15.75- 75.75	46.54
68 o-Xylene						CAS #: 95-47-6		
11.690	11.690	(1.055)	91	663497	53.6412	53.6	70.00- 130.00	100.00
11.691	11.691	(1.055)	106	291670			14.31- 74.31	43.96
11.692	11.691	(1.055)	77	79253			0.00- 40.66	11.94
69 Styrene						CAS #: 100-42-5		
11.724	11.723	(1.058)	104	525972	54.5072	54.5	70.00- 130.00	100.00
11.724	11.723	(1.058)	103	280446			23.29- 83.29	53.32
11.723	11.723	(1.058)	78	309312			28.87- 88.87	58.81
70 Bromoform						CAS #: 75-25-2		
12.065	12.065	(1.089)	173	90674	48.3577	48.4	70.00- 130.00	100.00
12.066	12.065	(1.089)	175	43250			16.61- 76.61	47.70
71 1-Methylethylbenzene						CAS #: 98-82-8		
12.053	12.052	(0.893)	105	783743	53.8844	53.9	70.00- 130.00	100.00
12.053	12.053	(0.893)	120	199538			0.00- 55.10	25.46
12.052	12.051	(0.892)	77	152171			0.00- 49.64	19.42
72 1,4-Dichloro-2-Butene						CAS #: 110-57-6		
12.088	12.090	(0.895)	53	67899	103.500	104	70.00- 130.00	100.00
12.089	12.090	(0.895)	75	56194			55.17- 115.17	82.76
12.088	12.092	(0.895)	89	25709			7.88- 67.88	37.86
73 1,1,2,2-Tetrachloroethane						CAS #: 79-34-5		
12.217	12.217	(0.905)	83	195031	52.1487	52.1	70.00- 130.00	100.00

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73 1,1,2,2-Tetrachloroethane (continued)								
12.218	12.217	(0.905)	85	124606			34.97- 94.97	63.89
12.220	12.220	(0.905)	133	16635			0.00- 38.88	8.53
$ 74 4-BROMOFLUOROBENZENE (surr)						CAS #: 460-00-4		
12.303	12.303	(0.911)	95	238160	49.9054	49.9	70.00- 130.00	100.00
12.306	12.305	(0.911)	174	164228			38.96- 98.96	68.96
12.305	12.305	(0.911)	176	159786			36.83- 96.83	67.09
75 1,2,3- trichloropropane						CAS #: 96-18-4		
12.366	12.366	(0.916)	75	171769			70.00- 130.00	100.00
12.366	12.365	(0.916)	77	52431			1.86- 61.86	30.52
12.367	12.367	(0.916)	110	59169	52.0516	52.0	4.85- 64.85	34.45
76 n-Propylbenzene						CAS #: 103-65-1		
12.458	12.458	(0.923)	91	995066	54.9953	55.0	70.00- 130.00	100.00
12.457	12.457	(0.923)	92	108284			0.00- 40.71	10.88
12.458	12.459	(0.923)	120	212081			0.00- 51.45	21.31
77 Bromobenzene						CAS #: 108-86-1		
12.503	12.503	(0.926)	77	368277	52.3692	52.4	70.00- 130.00	100.00
12.505	12.505	(0.926)	156	187300			20.92- 80.92	50.86
12.505	12.505	(0.926)	158	183733			19.05- 79.05	49.89
78 1,3,5-Trimethylbenzene						CAS #: 108-67-8		
12.616	12.616	(0.934)	105	682968	54.0436	54.0	70.00- 130.00	100.00
12.616	12.617	(0.934)	120	317619			16.57- 76.57	46.51
12.615	12.616	(0.934)	77	96333			0.00- 44.16	14.11
79 2-Chlorotoluene						CAS #: 95-49-8		
12.640	12.639	(0.936)	91	680477	53.2894	53.3	70.00- 130.00	100.00
12.640	12.640	(0.936)	126	173389			0.00- 56.32	25.48
12.637	12.638	(0.936)	63	124548			0.00- 48.10	18.30
80 4-Chlorotoluene						CAS #: 106-43-4		
12.686	12.685	(0.939)	91	631295	52.3324	52.3	70.00- 130.00	100.00
12.686	12.686	(0.939)	126	187995			0.00- 59.03	29.78
12.685	12.686	(0.939)	63	85662			0.00- 44.33	13.57
81 tert-Butylbenzene						CAS #: 98-06-6		
12.978	12.978	(0.961)	119	641153	54.4047	54.4	70.00- 130.00	100.00
12.978	12.978	(0.961)	91	428608			46.16- 106.16	66.85
12.979	12.979	(0.961)	134	131902			0.00- 50.39	20.57
82 1,2,4-trimethylbenzene						CAS #: 95-63-6		
13.015	13.015	(0.964)	105	669105	53.9247	53.9	70.00- 130.00	100.00

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82 1,2,4-trimethylbenzene (continued)								
13.016	13.016	(0.964)	120	297190			15.40- 75.40	44.42
13.015	13.015	(0.964)	77	90259			0.00- 44.34	13.49
83 sec-Butylbenzene						CAS #: 135-98-8		
13.194	13.194	(0.977)	105	830356	54.4199	54.4	70.00- 130.00	100.00
13.195	13.195	(0.977)	134	154133			0.00- 48.40	18.56
13.194	13.194	(0.977)	91	138818			0.00- 46.75	16.72
84 p-Isopropyltoluene						CAS #: 99-87-6		
13.331	13.331	(0.987)	119	704208	54.5078	54.5	70.00- 130.00	100.00
13.331	13.331	(0.987)	134	174553			0.00- 54.67	24.79
13.331	13.330	(0.987)	91	182738			0.00- 56.07	25.95
85 1,3-Dichlorobenzene						CAS #: 541-73-1		
13.431	13.431	(0.995)	146	363289	52.4581	52.4	70.00- 130.00	100.00
13.431	13.430	(0.995)	148	229367			33.67- 93.67	63.14
13.430	13.430	(0.995)	111	160430			14.38- 74.38	44.16
* 86 1,4-DICHLOROBENZENE-d4 (IS)						CAS #: 3855-82-1		
13.504	13.504	(1.000)	152	224088	50.0000		70.00- 130.00	100.00
13.504	13.504	(1.000)	150	394093			153.05- 213.05	175.87
13.503	13.503	(1.000)	115	142291			33.77- 93.77	63.50
87 1,4-Dichlorobenzene						CAS #: 106-46-7		
13.537	13.537	(1.002)	146	367846	52.1394	52.1	70.00- 130.00	100.00
13.537	13.537	(1.002)	148	236106			33.92- 93.92	64.19
13.536	13.536	(1.002)	111	159271			12.60- 72.60	43.30
88 Benzyl Chloride						CAS #: 100-44-7		
13.650	13.649	(1.011)	91	349444	55.2156	55.2	70.00- 130.00	100.00
13.649	13.649	(1.011)	65	47305			0.00- 43.68	13.54
89 n-Butylbenzene						CAS #: 104-51-8		
13.745	13.745	(1.018)	91	654915	56.0198	56.0	70.00- 130.00	100.00
13.745	13.745	(1.018)	92	354184			25.05- 85.05	54.08
13.747	13.746	(1.018)	134	156224			0.00- 54.46	23.85
90 1,2-Dichlorobenzene						CAS #: 95-50-1		
13.914	13.913	(1.030)	146	336309	51.5251	51.5	70.00- 130.00	100.00
13.913	13.913	(1.030)	148	217895			33.47- 93.47	64.79
13.912	13.913	(1.030)	111	153810			16.26- 76.26	45.73
91 1,2-dibromo-3-chloropropane						CAS #: 96-12-8		
14.601	14.601	(1.081)	75	40928	50.1562	50.2	70.00- 130.00	100.00
14.601	14.603	(1.081)	155	28792			43.52- 103.52	70.35

Data File: \\Vms03\dd\chem\vms03.i\M3082702.b\SEC32.D
Report Date: 26-Sep-2002 08:21

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/l)	FINAL (ug/l)	TARGET RANGE	RATIO
91 1,2-dibromo-3-chloropropane (continued)								
14.602	14.603	(1.081)	157	38500			62.24- 122.24	94.07
92 1,2,4-Trichlorobenzene						CAS #: 120-82-1		
15.261	15.266	(1.130)	180	249855	54.8058	54.8	70.00- 130.00	100.00
15.262	15.266	(1.130)	182	237203			64.28- 124.28	94.94
15.260	15.266	(1.130)	145	79219			1.77- 61.77	31.71
93 Hexachlorobutadiene						CAS #: 87-68-3		
15.359	15.365	(1.137)	225	89688			70.00- 130.00	100.00
15.359	15.364	(1.137)	223	57894	56.9210	56.9	31.56- 91.56	64.55
15.360	15.365	(1.137)	227	57399			33.08- 93.08	64.00
94 Naphthalene						CAS #: 91-20-3		
15.445	15.451	(1.144)	128	578517	55.7020	55.7	70.00- 130.00	100.00
15.445	15.451	(1.144)	127	74919			0.00- 43.04	12.95
15.445	15.451	(1.144)	129	62421			0.00- 40.89	10.79
95 1,2,3-trichlorobenzene						CAS #: 87-61-6		
15.613	15.620	(1.156)	180	224019	54.8952	54.9	70.00- 130.00	100.00
15.613	15.620	(1.156)	182	211559			65.09- 125.09	94.44
15.612	15.619	(1.156)	145	75492			3.97- 63.97	33.70

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\Vms03\dd\chem\vms03.i\M3082702.b\SEC32.D
Report Date: 26-Sep-2002 08:21

PEL Laboratories, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

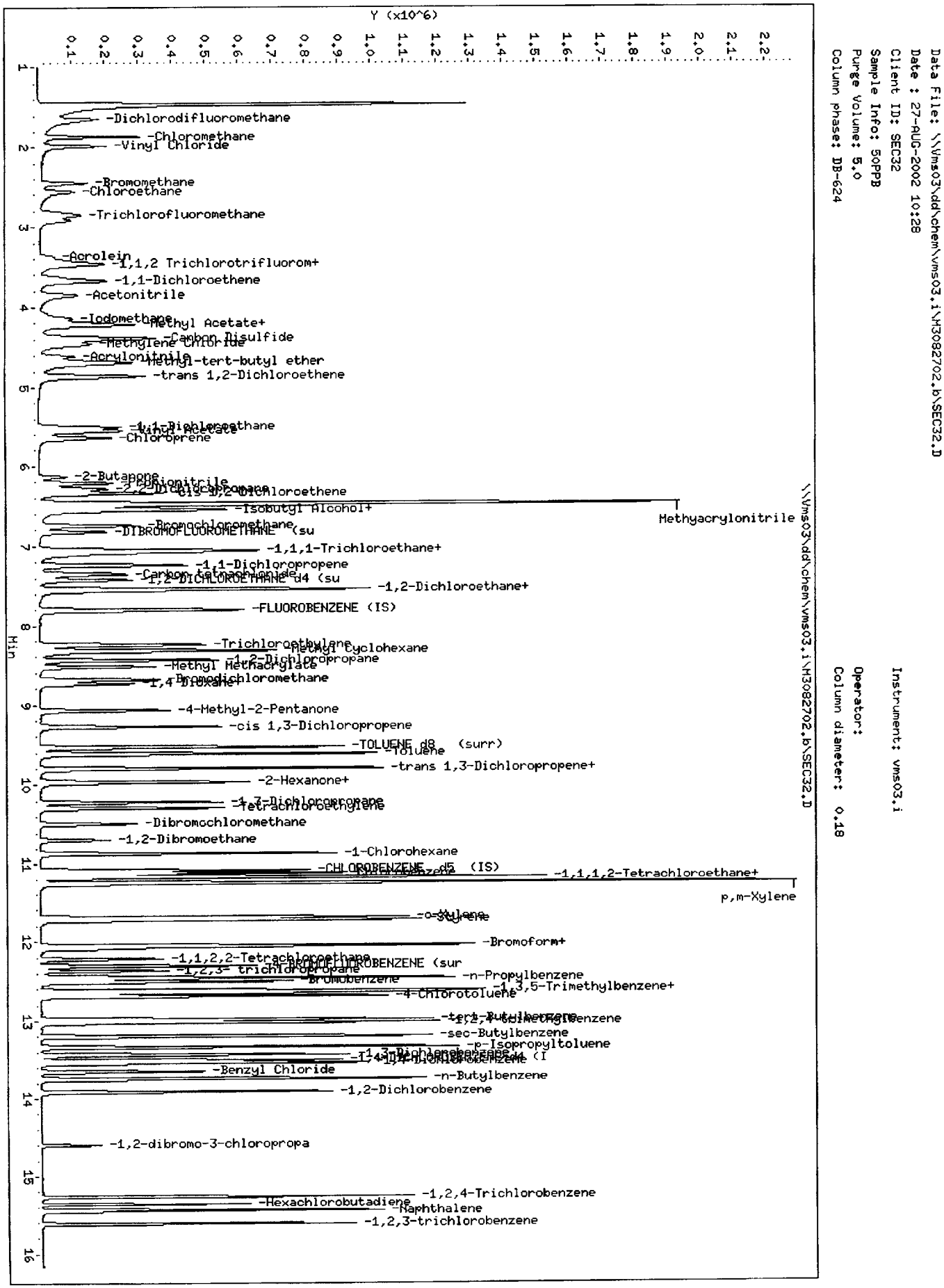
Instrument ID: vms03.i
Lab File ID: SEC32.D
Lab Smp Id: SEC32
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\VMS03\dd\chem\vms03.i\M3082702.b\8260A.m
Misc Info:

Calibration Date: 27-AUG-2002
Calibration Time: 08:53
Client Smp ID: SEC32
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
42 FLUOROBENZENE (IS	574299	287150	1148598	584419	1.76
63 CHLOROBENZENE d5	414562	207281	829124	418221	0.88
86 1,4-DICHLOROBENZE	223111	111556	446222	224088	0.44

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
42 FLUOROBENZENE (IS	7.80	7.30	8.30	7.80	-0.00
63 CHLOROBENZENE d5	11.08	10.58	11.58	11.08	-0.00
86 1,4-DICHLOROBENZE	13.50	13.00	14.00	13.50	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.


Data File: \\Vms03\dd\chem\vms03.i\H3082702.b\SEC32.D
Date : 27-AUG-2002 10:28
Client ID: SEC32
Sample Info: 50PPB
Purge Volume: 5.0
Column phase: DB-624
Instrument: vms03.i
Operator:
Column diameter: 0.18
Y (x10^6)
Min
-Dichlorodifluoromethane
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Trichlorofluoromethane
-Acrolein
-1,1,2 Trichlorotrifluorom+
-1,1-Dichloroethene
-Acetonitrile
-Iodomethane
Methyl Acetate+
-Carbon Disulfide
-Methylene Chloride
-Acrylonitrile
Methyl-tert-butyl ether
-trans 1,2-Dichloroethene
-1,1-Dichloroethane
-Vinyl Acetate
-Chloroprene
-2-Butanone
-Propionitrile
-2,2-Dichloropropane
-cis 1,2-Dichloroethene
-Isobutyl Alcohol+
Methyacrylonitrile
-Bromochloromethane
-DIBROMOFLUOROMETHANE (su
-1,1,1-Trichloroethane+
-1,1-Dichloropropene
-Carbon tetrachloride
-1,2-DICHLOROETHANE d4 (su
-1,2-Dichloroethane+
-FLUOROBENZENE (IS)
-Trichloroethylene
-Methyl Cyclohexane
-1,2-Dichloropropane
-Methyl Methacrylate
-1,4-Dioxane+
-Bromodichloromethane
-4-Methyl-2-Pentanone
-cis 1,3-Dichloropropene
-TOLUENE d8 (surr)
-Toluene
-trans 1,3-Dichloropropene+
-2-Hexanone+
-1,3-Dichloropropane
-Tetrachloroethylene
-Dibromochloromethane
-1,2-Dibromoethane
-1-Chlorohexane
-CHLOROBENZENE d5 (IS)
-Ethylbenzene
-1,1,1,2-Tetrachloroethane+
p,m-Xylene
-o-Xylene
-Styrene
-Bromoform+
-1,1,2,2-Tetrachloroethane
-BROMOFLUOROBENZENE (sur
-1,2,3-Trichloropropane
-Bromobenzene
-n-Propylbenzene
-1,3,5-Trimethylbenzene+
-4-Chlorotoluene
-tert-Butylbenzene
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-p-Isopropyltoluene
-1,3-Dichlorobenzene
-1,4-Dichlorobenzene
-Benzyl Chloride
-n-Butylbenzene
-1,2-Dichlorobenzene
-1,2-dibromo-3-chloropropa
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-trichlorobenzene

Data \Vms03\dd\chem\vms03.i\M3092502.b\BFB32.D
Repo 26-Sep-2002 08:44

PEL Laboratories, Inc.

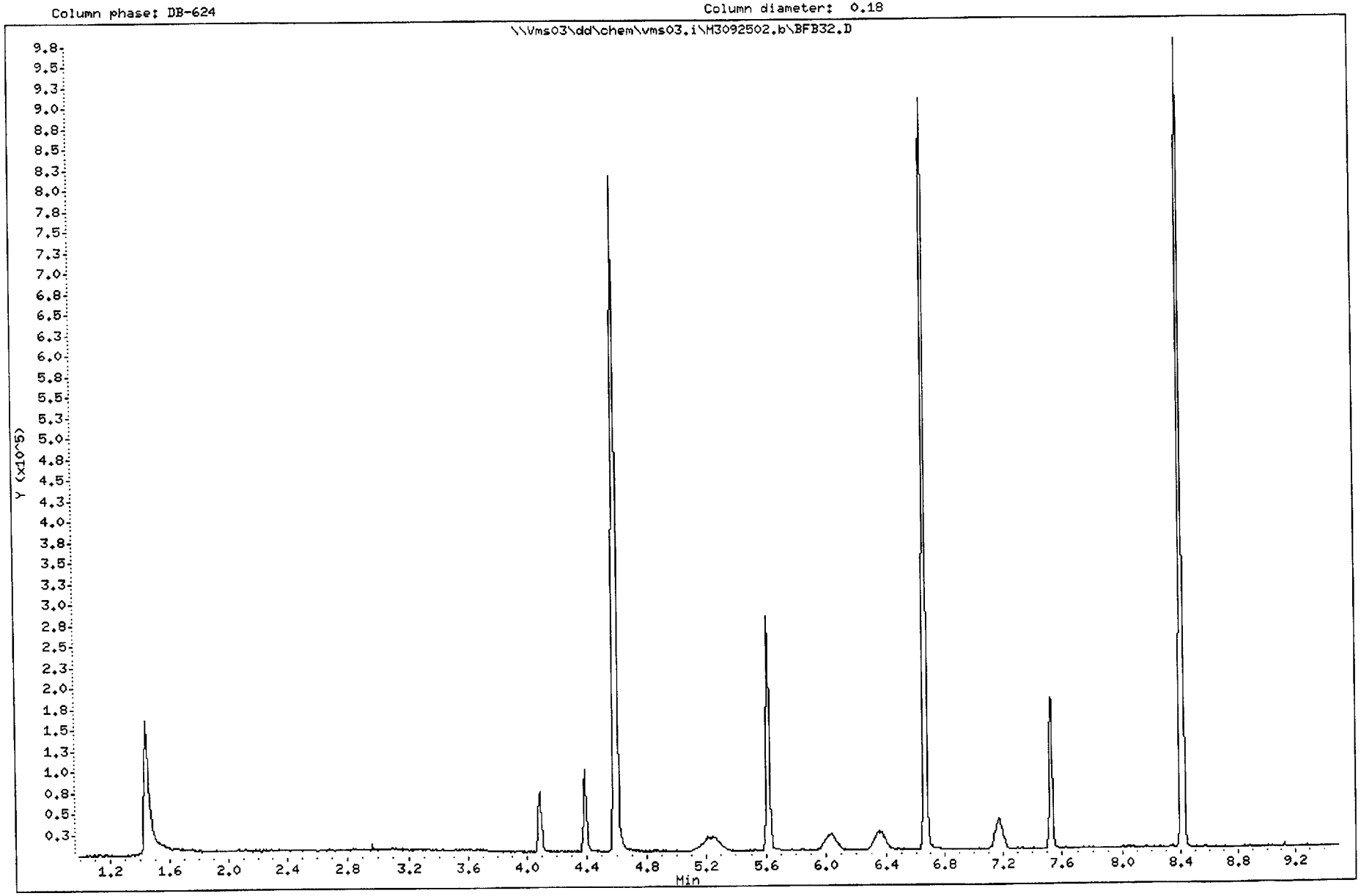
Data \Vms03\dd\chem\vms03.i\M3092502.b\BFB32.D
Lab 092502BFBA32 Client Smp ID: 092502BFBA32
In 25-SEP-2002 05:39 MS Autotune Date: 29-OCT-2001 10:36
Ope Inst ID: vms03.i
Smp 092502BFBA32
Mis
Com
Met \Vms03\dd\chem\vms03.i\M3092502.b\BFBE.m
Met 19-May-2001 13:32 Quant Type: ESTD
Cal Cal File:
Als QC Sample: BFB
Dil 1.00000
Int HP RTE Compound Sublist: all.sub
Targ on: 4.04 Sample Matrix: WATER

Conce Formula: Amt * DF

RT	E	RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 74-83-9		
0.000		500)	95	12382			0.00- 100.00	100.00
0.000		500)	50	2973			15.00- 40.00	24.01
0.000		500)	75	6657			30.00- 60.00	53.76
0.000		500)	96	849			5.00- 9.00	6.86
0.000		500)	173	31			0.00- 2.00	0.35
0.000		500)	174	8757			50.00- 100.00	70.72
0.000		500)	175	676			5.00- 9.00	7.72
0.000		500)	176	8771			95.00- 101.00	100.16
0.000		500)	177	546			5.00- 9.00	6.23

Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\BFB32.D
Date : 25-SEP-2002 05:39
Client ID: 092502BFBA32
Sample Info: 092502BFBA32
Purge Volume: 5.0
Column phase: DB-624

Instrument: vms03.i
Operator:
Column diameter: 0.18



Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\BFB32.D

Date : 25-SEP-2002 05:39

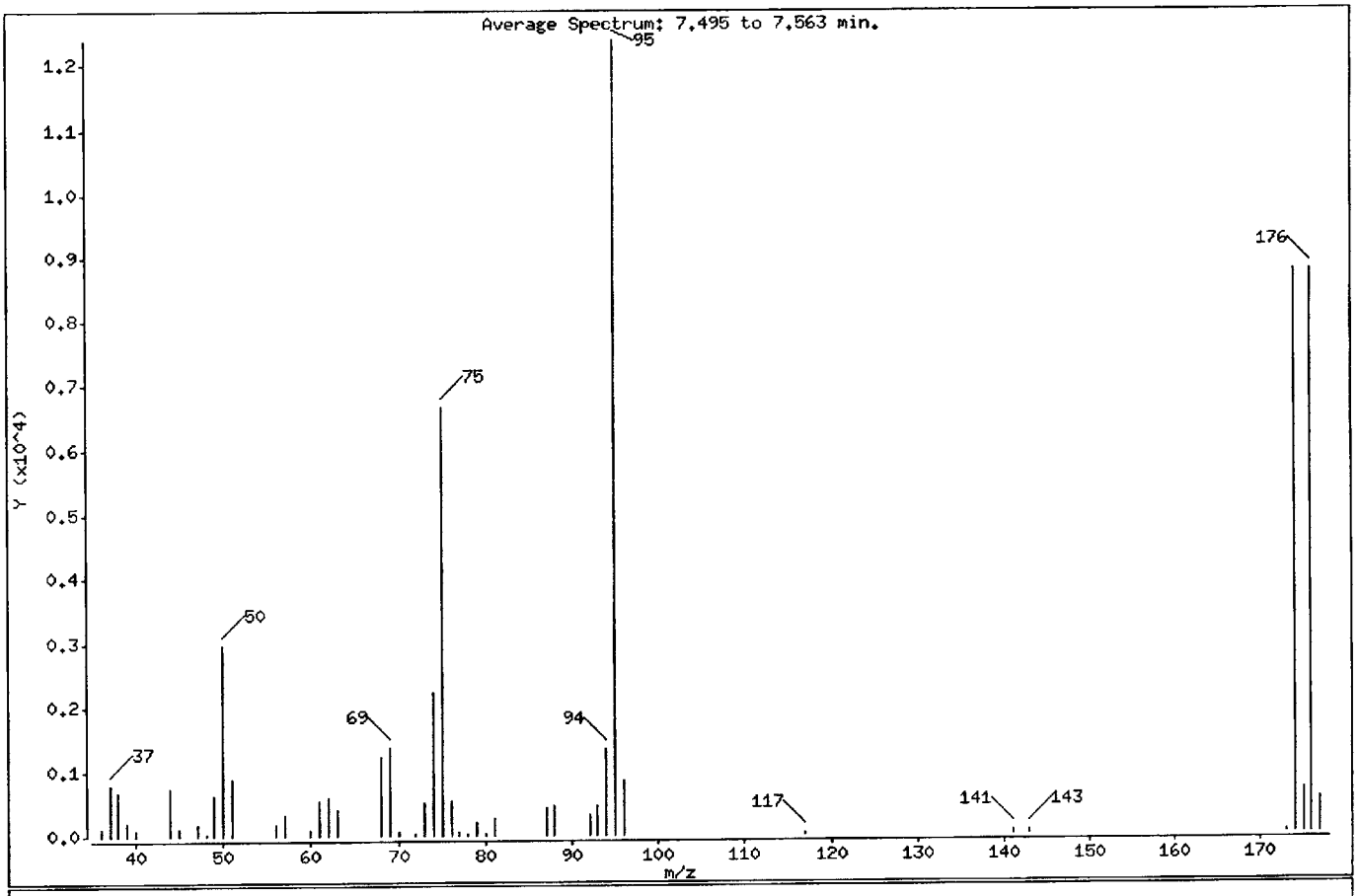
Client ID: 092502BFBA32 | Instrument: vms03.i

Sample Info: 092502BFBA32

Purge Volume: 5.0 | Operator:

Column phase: DB-624 | Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	24.01
75	30.00 - 60.00% of mass 95	53.76
96	5.00 - 9.00% of mass 95	6.86
173	Less than 2.00% of mass 174	0.25 (0.35)
174	50.00 - 100.00% of mass 95	70.72
175	5.00 - 9.00% of mass 174	5.46 (7.72)
176	95.00 - 101.00% of mass 174	70.84 (100.16)
177	5.00 - 9.00% of mass 176	4.41 (6.23)

Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\BFB32.D

Date : 25-SEP-2002 05:39

Client ID: 092502BFBA32 Instrument: vms03.i

Sample Info: 092502BFBA32

Purge Volume: 5.0 Operator:

Column phase: DB-624 Column diameter: 0.18

Data File: BFB32.D
Spectrum: Average Spectrum: 7.495 to 7.563 min.
Location of Maximum: 95.00
Number of points: 46

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	112	56.00	171	75.00	6657	95.00	12382
37.00	786	57.00	319	76.00	546	96.00	849
38.00	678	60.00	82	77.00	49	117.00	19
39.00	198	61.00	550	78.00	25	141.00	71
40.00	95	62.00	606	79.00	213	143.00	61
44.00	737	63.00	400	80.00	26	173.00	31
45.00	125	68.00	1220	81.00	250	174.00	8757
47.00	165	69.00	1354	87.00	422	175.00	676
48.00	27	70.00	70	88.00	442	176.00	8771
49.00	624	72.00	24	92.00	308	177.00	546
50.00	2973	73.00	506	93.00	445		
51.00	894	74.00	2229	94.00	1340		

Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\50CCV31.D
Report Date: 26-Sep-2002 08:44

PEL Laboratories, Inc.

Data file : \\Vms03\dd\chem\vms03.i\M3092502.b\50CCV31.D
Lab Smp Id: 092502CCVA31 Client Smp ID: 092502CCVA31
Inj Date : 25-SEP-2002 06:02 MS Autotune Date: 29-OCT-2001 10:36
Operator : Inst ID: vms03.i
Smp Info : 092502CCVA31
Misc Info :
Comment :
Method : \\Vms03\dd\chem\vms03.i\M3092502.b\8260A.m
Meth Date : 26-Sep-2002 08:44 lpelo Quant Type: ISTD
Cal Date : 27-AUG-2002 09:41 Cal File: 80PPB.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.04 Sample Matrix: WATER
Processing Host: PELCOMP01

Concentration Formula: Amt * DF * Vf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	Final Volume
Vo	5.000	Sample Volume

	RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	TARGET RANGE	RATIO
M	1 1,2-Dichloroethene (Total)						CAS #: 540-59-0		
					442746	100.000	104		
M	2 Xylenes (Total)						CAS #: 1330-20-7		
					1183867	150.000	156		
M	3 Trihalomethanes (Total)						CAS #: THM		
					776576	50.0000	208		
	4 Dichlorodifluoromethane						CAS #: 75-71-8		
	1.637	1.637	(0.210)	85	229436	50.0000	44.3	70.00- 130.00	100.00
	1.636	1.636	(0.210)	87	70097			0.55- 60.55	30.55
	5 Chloromethane						CAS #: 74-87-3		
	1.855	1.855	(0.238)	50	279423	50.0000	44.0	70.00- 130.00	100.00

Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\50CCV31.D
Report Date: 26-Sep-2002 08:44

RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	TARGET RANGE	RATIO
5 Chloromethane (continued)								
1.855	1.855	(0.238)	52	89223			1.93- 61.93	31.93
6 Vinyl Chloride						CAS #: 75-01-4		
1.977	1.977	(0.254)	62	191921	50.0000	42.3	70.00- 130.00	100.00
1.976	1.976	(0.254)	64	56971			0.00- 59.68	29.68
7 Bromomethane						CAS #: 74-83-9		
2.447	2.447	(0.314)	94	124326			70.00- 130.00	100.00
2.446	2.446	(0.314)	96	114000	50.0000	48.9	61.69- 121.69	91.69
8 Chloroethane						CAS #: 75-00-3		
2.556	2.556	(0.328)	64	138172	50.0000	48.7	70.00- 130.00	100.00
2.556	2.556	(0.328)	66	42614			0.84- 60.84	30.84
9 Trichlorofluoromethane						CAS #: 75-69-4		
2.839	2.839	(0.364)	101	214794	50.0000	54.7	70.00- 130.00	100.00
2.841	2.841	(0.365)	103	137849			34.18- 94.18	64.18
2.836	2.836	(0.364)	66	28982			0.00- 43.49	13.49
10 Acrolein						CAS #: 107-02-8		
3.359	3.359	(0.431)	56	58017	100.000	106	70.00- 130.00	100.00
3.355	3.355	(0.431)	55	38498			36.36- 96.36	66.36
11 1,1,2 Trichlorotrifluoromethane						CAS #: 76-13-1		
3.444	3.444	(0.442)	101	159996	50.0000	53.4	70.00- 130.00	100.00
3.452	3.452	(0.443)	151	118274			43.92- 103.92	73.92
3.452	3.452	(0.443)	103	103914			34.95- 94.95	64.95
12 Acetone						CAS #: 67-64-1		
3.458	3.458	(0.444)	43	122876	100.000	100	70.00- 130.00	100.00
3.461	3.461	(0.444)	58	33595			0.00- 57.34	27.34
13 1,1-Dichloroethene						CAS #: 75-35-4		
3.663	3.663	(0.470)	61	286920	50.0000	49.2	70.00- 130.00	100.00
3.662	3.662	(0.470)	96	136414			17.54- 77.54	47.54
3.661	3.661	(0.470)	98	88134			0.72- 60.72	30.72
14 Acetonitrile						CAS #: 75-05-8		
3.838	3.838	(0.493)	41	244512	500.000	489	70.00- 130.00	100.00
3.836	3.836	(0.492)	40	129925			23.14- 83.14	53.14
3.839	3.839	(0.493)	39	46475			0.00- 49.01	19.01
15 Iodomethane						CAS #: 74-88-4		
4.131	4.131	(0.530)	142	254877	50.0000	48.5	70.00- 130.00	100.00
4.131	4.131	(0.530)	127	101661			9.89- 69.89	39.89

Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\50CCV31.D
Report Date: 26-Sep-2002 08:44

RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	TARGET RANGE	RATIO
15 Iodomethane (continued)								
4.137	4.137	(0.531)	141	35428			0.00- 43.90	13.90
16 Methyl Acetate						CAS #: 79-20-9		
4.179	4.179	(0.536)	43	163313	50.0000	52.8		
17 Allyl Chloride						CAS #: 107-05-1		
4.206	4.206	(0.540)	41	292338	50.0000	50.6	70.00- 130.00	100.00
4.208	4.208	(0.540)	39	190340			35.11- 95.11	65.11
4.208	4.208	(0.540)	78	24260			0.00- 38.30	8.30
18 Carbon Disulfide						CAS #: 75-15-0		
4.372	4.372	(0.561)	76	555760	50.0000	47.7	70.00- 130.00	100.00
4.375	4.375	(0.562)	78	50324			0.00- 39.05	9.05
19 Methylene Chloride						CAS #: 75-09-2		
4.444	4.444	(0.570)	84	170592			70.00- 130.00	100.00(M)
4.444	4.444	(0.570)	49	297804	50.0000	47.0	144.57- 204.57	174.57
4.444	4.444	(0.570)	51	81879			18.00- 78.00	48.00
20 Acrylonitrile						CAS #: 107-13-1		
4.593	4.593	(0.590)	53	154057	100.000	112	70.00- 130.00	100.00
4.594	4.594	(0.590)	52	127699			52.89- 112.89	82.89
4.595	4.595	(0.590)	51	61532			9.94- 69.94	39.94
21 Methyl-tert-butyl ether						CAS #: 1634-04-4		
4.667	4.667	(0.599)	73	524682	50.0000	49.6	70.00- 130.00	100.00
4.665	4.665	(0.599)	57	132842			0.00- 55.32	25.32
22 trans 1,2-Dichloroethene						CAS #: 156-60-5		
4.847	4.847	(0.622)	96	150433			70.00- 130.00	100.00
4.846	4.846	(0.622)	61	267652	50.0000	51.0	147.92- 207.92	177.92
4.847	4.847	(0.622)	98	96518			34.16- 94.16	64.16
23 1,1-Dichloroethane						CAS #: 75-34-3		
5.495	5.495	(0.705)	63	338013	50.0000	51.5	70.00- 130.00	100.00
5.494	5.494	(0.705)	65	103016			0.48- 60.48	30.48
5.495	5.495	(0.705)	83	38957			0.00- 41.53	11.53
24 Vinyl Acetate						CAS #: 108-05-4		
5.542	5.542	(0.711)	43	481838	50.0000	50.5	70.00- 130.00	100.00
5.543	5.543	(0.711)	86	33042			0.00- 36.86	6.86
25 Chloroprene						CAS #: 126-99-8		
5.631	5.631	(0.723)	53	193392	50.0000	52.8	70.00- 130.00	100.00
5.631	5.631	(0.723)	88	82467			12.64- 72.64	42.64

Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\50CCV31.D
Report Date: 26-Sep-2002 08:44

RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	TARGET RANGE	RATIO
25 Chloroprene (continued)								
5.631	5.631	(0.723)	90	24852			0.00- 42.85	12.85
26 2-Butanone						CAS #: 78-93-3		
6.121	6.121	(0.786)	43	180380	100.000	102	70.00- 130.00	100.00
6.121	6.121	(0.786)	72	33667			0.00- 48.66	18.66
27 Propionitrile						CAS #: 107-12-0		
6.202	6.202	(0.796)	54	270820	500.000	516	70.00- 130.00	100.00
6.203	6.203	(0.796)	52	56318			0.00- 50.80	20.80
6.202	6.202	(0.796)	55	43914			0.00- 46.22	16.22
28 2,2-Dichloropropane						CAS #: 594-20-7		
6.279	6.279	(0.806)	77	171592	50.0000	51.5	70.00- 130.00	100.00
6.278	6.278	(0.806)	79	53416			1.13- 61.13	31.13
6.282	6.282	(0.806)	97	28271			0.00- 46.48	16.48
29 cis-1,2-Dichloroethene						CAS #: 156-59-2		
6.333	6.333	(0.813)	96	175094	50.0000	52.8	70.00- 130.00	100.00
6.333	6.333	(0.813)	61	294769			138.35- 198.35	168.35
6.332	6.332	(0.813)	98	110547			33.14- 93.14	63.14
30 Methyacrylonitrile						CAS #: 126-98-7		
6.463	6.463	(0.829)	67	673055	500.000	524	70.00- 130.00	100.00
6.464	6.464	(0.830)	66	239602			5.60- 65.60	35.60
6.463	6.463	(0.830)	52	334411			19.69- 79.69	49.69
31 Isobutyl Alcohol						CAS #: 78-83-1		
6.530	6.530	(0.838)	43	159500	1000.00	984	70.00- 130.00	100.00
6.530	6.530	(0.838)	42	99488			32.37- 92.37	62.37
6.524	6.524	(0.837)	41	178782			82.09- 142.09	112.09
32 Chloroform						CAS #: 67-66-3		
6.540	6.540	(0.839)	83	300948	50.0000	50.2	70.00- 130.00	100.00
6.541	6.541	(0.840)	85	196381			35.25- 95.25	65.25
6.539	6.539	(0.839)	47	88211			0.00- 59.31	29.31
33 Bromochloromethane						CAS #: 74-97-5		
6.736	6.736	(0.865)	128	76691	50.0000	53.2	70.00- 130.00	100.00
6.735	6.735	(0.864)	49	196020			225.60- 285.60	255.60
6.738	6.738	(0.865)	130	98066			97.87- 157.87	127.87
$ 34 DIBROMOFLUOROMETHANE (surr)						CAS #: 1868-53-7		
6.810	6.810	(0.874)	113	138713	50.0000	49.7	70.00- 130.00	100.00
6.811	6.811	(0.874)	111	140232			71.10- 131.10	101.10
6.812	6.812	(0.874)	192	25301			0.00- 48.24	18.24

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RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	TARGET RANGE	RATIO
35 1,1,1-Trichloroethane						CAS #: 71-55-6		
7.038	7.038	(0.903)	97	251883	50.0000	52.1	70.00- 130.00	100.00
7.036	7.036	(0.903)	99	162921			34.68- 94.68	64.68
7.039	7.039	(0.903)	117	29567			0.00- 41.74	11.74
36 Cyclohexane						CAS #: 110-82-7		
7.054	7.054	(0.905)	56	366798	50.0000	49.3	70.00- 130.00	100.00
7.057	7.057	(0.906)	84	255821			39.74- 99.74	69.74
7.056	7.056	(0.906)	41	222687			30.71- 90.71	60.71
37 1,1-Dichloropropene						CAS #: 563-58-6		
7.229	7.229	(0.928)	75	230777	50.0000	50.8	70.00- 130.00	100.00
7.231	7.231	(0.928)	77	71305			0.90- 60.90	30.90
7.230	7.230	(0.928)	110	72639			1.48- 61.48	31.48
38 Carbon tetrachloride						CAS #: 56-23-5		
7.339	7.339	(0.942)	117	198368	50.0000	51.0	70.00- 130.00	100.00
7.341	7.341	(0.942)	119	193596			67.59- 127.59	97.59
7.340	7.340	(0.942)	121	60771			0.64- 60.64	30.64
$ 39 1,2-DICHLOROETHANE d4 (surr)						CAS #: 17060-07-0		
7.416	7.416	(0.952)	102	34028	50.0000	50.5	70.00- 130.00	100.00
7.414	7.414	(0.952)	65	210149			587.58- 647.58	617.58
7.414	7.414	(0.952)	67	107244			285.16- 345.16	315.16
40 1,2-Dichloroethane						CAS #: 107-06-2		
7.524	7.524	(0.966)	62	284498	50.0000	51.5	70.00- 130.00	100.00
7.524	7.524	(0.966)	64	89597			1.49- 61.49	31.49
7.526	7.526	(0.966)	98	19799			0.00- 36.96	6.96
41 Benzene						CAS #: 71-43-2		
7.536	7.536	(0.967)	78	671373	50.0000	50.4	70.00- 130.00	100.00
7.536	7.536	(0.967)	52	140800			0.00- 50.97	20.97
7.536	7.536	(0.967)	77	155439			0.00- 53.15	23.15
* 42 FLUOROBENZENE (IS)						CAS #: 462-06-6		
7.791	7.791	(1.000)	96	556115	50.0000		70.00- 130.00	100.00
7.792	7.792	(1.000)	70	118969			0.00- 51.39	21.39
7.792	7.792	(1.000)	50	81006			0.00- 44.57	14.57
43 Trichloroethylene						CAS #: 79-01-6		
8.237	8.237	(1.057)	130	156336	50.0000	52.0	70.00- 130.00	100.00
8.236	8.236	(1.057)	95	170988			79.37- 139.37	109.37
8.235	8.235	(1.057)	97	110472			40.66- 100.66	70.66
44 Methyl Cyclohexane						CAS #: 108-87-2		
8.312	8.312	(1.067)	83	289487			70.00- 130.00	100.00

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RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	TARGET RANGE	RATIO
44 Methyl Cyclohexane (continued)								
8.310	8.310	(1.067)	55	283611	50.0000	49.2	67.97- 127.97	97.97
8.310	8.310	(1.067)	41	160373			25.40- 85.40	55.40
45 1,2-Dichloropropane						CAS #: 78-87-5		
8.431	8.431	(1.082)	63	198730	50.0000	52.3	70.00- 130.00	100.00
8.431	8.431	(1.082)	62	145297			43.11- 103.11	73.11
8.432	8.432	(1.082)	76	81407			10.96- 70.96	40.96
46 Methyl Methacrylate						CAS #: 80-62-6		
8.515	8.515	(1.093)	69	121258	50.0000	54.1	70.00- 130.00	100.00
8.515	8.515	(1.093)	41	200830			135.62- 195.62	165.62
47 Bromodichloromethane						CAS #: 75-27-4		
8.681	8.681	(1.114)	83	235648	50.0000	52.2	70.00- 130.00	100.00
8.681	8.681	(1.114)	85	151852			34.44- 94.44	64.44
48 1,4 Dioxane						CAS #: 123-91-1		
8.715	8.715	(1.119)	88	22561	1000.00	811	70.00- 130.00	100.00
8.714	8.714	(1.118)	58	18463			51.84- 111.84	81.84
8.717	8.717	(1.119)	43	8424			7.34- 67.34	37.34
49 Dibromomethane						CAS #: 74-95-3		
8.732	8.732	(1.121)	93	101688	50.0000	52.8	70.00- 130.00	100.00
8.731	8.731	(1.121)	95	83669			52.28- 112.28	82.28
8.735	8.735	(1.121)	174	91456			59.94- 119.94	89.94
50 4-Methyl-2-Pentanone						CAS #: 108-10-1		
9.061	9.061	(1.163)	43	386047			70.00- 130.00	100.00
9.061	9.061	(1.163)	58	135739	100.000	110	5.16- 65.16	35.16
9.064	9.064	(1.163)	100	41271			0.00- 40.69	10.69
51 2-Hexanone						CAS #: 591-78-6		
9.965	9.965	(0.900)	43	271193	100.000	111	70.00- 130.00	100.00
9.965	9.965	(0.900)	58	130170			18.00- 78.00	48.00
52 cis 1,3-Dichloropropene						CAS #: 10061-01-5		
9.267	9.267	(1.189)	75	284892	50.0000	54.7	70.00- 130.00	100.00
9.266	9.266	(1.189)	77	91646			2.17- 62.17	32.17
9.267	9.267	(1.189)	110	58245			0.00- 50.44	20.44
$ 53 TOLUENE d8 (surr)						CAS #: 2037-26-5		
9.522	9.522	(1.222)	98	588605	50.0000	49.8	70.00- 130.00	100.00
9.522	9.522	(1.222)	70	69845			0.00- 41.87	11.87
9.522	9.522	(1.222)	100	384786			35.37- 95.37	65.37

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RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	TARGET RANGE	RATIO
54 Toluene							CAS #: 108-88-3	
9.604	9.604	(1.233)	92	400461	50.0000	51.6	70.00- 130.00	100.00
9.604	9.604	(1.233)	91	682432			140.41- 200.41	170.41
9.603	9.603	(1.233)	65	91958			0.00- 52.96	22.96
55 trans 1,3-Dichloropropene							CAS #: 10061-02-6	
9.789	9.789	(1.256)	75	266932	50.0000	56.0	70.00- 130.00	100.00
9.789	9.789	(1.256)	77	84417			1.62- 61.62	31.62
9.790	9.790	(1.256)	110	57431			0.00- 51.52	21.52
56 Ethyl Methacrylate							CAS #: 97-63-2	
9.788	9.788	(1.256)	69	223093	50.0000	54.8	70.00- 130.00	100.00
9.788	9.788	(1.256)	99	41547			0.00- 48.62	18.62
57 1,1,2-Trichloroethane							CAS #: 79-00-5	
9.950	9.950	(1.277)	97	144566	50.0000	52.4	70.00- 130.00	100.00
9.949	9.949	(1.277)	83	123449			55.39- 115.39	85.39
9.951	9.951	(1.277)	85	96910			37.04- 97.04	67.04
58 1,3-Dichloropropane							CAS #: 142-28-9	
10.208	10.208	(0.922)	76	272077	50.0000	51.5	70.00- 130.00	100.00
10.209	10.209	(0.922)	78	86973			1.97- 61.97	31.97
10.209	10.209	(0.922)	63	30855			0.00- 41.34	11.34
59 Tetrachloroethylene							CAS #: 127-18-4	
10.279	10.279	(0.928)	164	121671	50.0000	51.3	70.00- 130.00	100.00
10.280	10.280	(0.928)	129	120755			69.25- 129.25	99.25
10.279	10.279	(0.928)	166	155972			98.19- 158.19	128.19
60 Dibromochloromethane							CAS #: 124-48-1	
10.478	10.478	(0.946)	129	150943	50.0000	55.9	70.00- 130.00	100.00
10.478	10.478	(0.946)	127	115302			46.39- 106.39	76.39
61 1,2-Dibromoethane							CAS #: 106-93-4	
10.684	10.684	(0.965)	107	141489	50.0000	52.4	70.00- 130.00	100.00
10.683	10.683	(0.965)	109	133568			64.40- 124.40	94.40
62 1-Chlorohexane							CAS #: 544-10-5	
10.854	10.854	(0.980)	91	227060	50.0000	55.2	70.00- 130.00	100.00
10.853	10.853	(0.980)	55	199224			57.74- 117.74	87.74
10.853	10.853	(0.980)	56	121926			23.70- 83.70	53.70
* 63 CHLOROBENZENE d5 (IS)							CAS #: 3114-55-4	
11.073	11.073	(1.000)	117	400449	50.0000		70.00- 130.00	100.00
11.074	11.074	(1.000)	119	125136			1.25- 61.25	31.25
11.073	11.073	(1.000)	82	242080			30.45- 90.45	60.45

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RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	TARGET RANGE	RATIO
64 Chlorobenzene						CAS #: 108-90-7		
11.113	11.113	(1.004)	112	424440	50.0000	51.4	70.00- 130.00	100.00
11.112	11.112	(1.004)	114	136622			2.19- 62.19	32.19
11.112	11.112	(1.003)	77	287932			37.84- 97.84	67.84
65 1,1,1,2-Tetrachloroethane						CAS #: 630-20-6		
11.155	11.155	(1.007)	131	141694	50.0000	54.6	70.00- 130.00	100.00
11.155	11.155	(1.007)	117	96782			38.30- 98.30	68.30
11.154	11.154	(1.007)	95	60902			12.98- 72.98	42.98
66 Ethylbenzene						CAS #: 100-41-4		
11.167	11.167	(1.009)	106	225244	50.0000	51.0	70.00- 130.00	100.00
11.167	11.167	(1.008)	91	770845			312.23- 372.23	342.23
11.165	11.165	(1.008)	77	72736			2.29- 62.29	32.29
67 p,m-Xylene						CAS #: 511-39-00		
11.244	11.244	(1.015)	106	567125	100.000	104	70.00- 130.00	100.00
11.244	11.244	(1.015)	91	1236186			187.97- 247.97	217.97
11.244	11.244	(1.015)	105	262575			16.30- 76.30	46.30
68 o-Xylene						CAS #: 95-47-6		
11.686	11.686	(1.055)	91	616742	50.0000	52.1	70.00- 130.00	100.00
11.686	11.686	(1.055)	106	267077			13.30- 73.30	43.30
11.686	11.686	(1.055)	77	74528			0.00- 42.08	12.08
69 Styrene						CAS #: 100-42-5		
11.719	11.719	(1.058)	104	483844	50.0000	52.4	70.00- 130.00	100.00
11.718	11.718	(1.058)	103	260420			23.82- 83.82	53.82
11.718	11.718	(1.058)	78	284501			28.80- 88.80	58.80
70 Bromoform						CAS #: 75-25-2		
12.061	12.061	(1.089)	173	89037	50.0000	49.6	70.00- 130.00	100.00
12.061	12.061	(1.089)	175	43573			18.94- 78.94	48.94
71 1-Methylethylbenzene						CAS #: 98-82-8		
12.048	12.048	(0.892)	105	724622	50.0000	53.1	70.00- 130.00	100.00
12.048	12.048	(0.892)	120	182683			0.00- 55.21	25.21
12.048	12.048	(0.892)	77	124191			0.00- 47.14	17.14
72 1,4-Dichloro-2-Butene						CAS #: 110-57-6		
12.085	12.085	(0.895)	53	62818	100.000	102	70.00- 130.00	100.00
12.086	12.086	(0.895)	75	52750			53.97- 113.97	83.97
12.085	12.085	(0.895)	89	23953			8.13- 68.13	38.13
73 1,1,2,2-Tetrachloroethane						CAS #: 79-34-5		
12.213	12.213	(0.905)	83	184229	50.0000	52.5	70.00- 130.00	100.00

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73 1,1,2,2-Tetrachloroethane (continued)								
12.213	12.213	(0.905)	85	119297			34.75- 94.75	64.75
12.213	12.213	(0.905)	133	16360			0.00- 38.88	8.88
$ 74 4-BROMOFLUOROBENZENE (surr)						CAS #: 460-00-4		
12.299	12.299	(0.911)	95	221926	50.0000	49.6	70.00- 130.00	100.00
12.301	12.301	(0.911)	174	157332			40.89- 100.89	70.89
12.300	12.300	(0.911)	176	148698			37.00- 97.00	67.00
75 1,2,3- trichloropropane						CAS #: 96-18-4		
12.362	12.362	(0.916)	75	161494			70.00- 130.00	100.00
12.362	12.362	(0.916)	77	51337			1.79- 61.79	31.79
12.363	12.363	(0.916)	110	55543	50.0000	52.1	4.39- 64.39	34.39
76 n-Propylbenzene						CAS #: 103-65-1		
12.454	12.454	(0.922)	91	902646	50.0000	53.2	70.00- 130.00	100.00
12.453	12.453	(0.922)	92	95411			0.00- 40.57	10.57
12.455	12.455	(0.923)	120	192264			0.00- 51.30	21.30
77 Bromobenzene						CAS #: 108-86-1		
12.498	12.498	(0.926)	77	339501	50.0000	51.5	70.00- 130.00	100.00
12.501	12.501	(0.926)	156	179599			22.90- 82.90	52.90
12.500	12.500	(0.926)	158	174304			21.34- 81.34	51.34
78 1,3,5-Trimethylbenzene						CAS #: 108-67-8		
12.612	12.612	(0.934)	105	627826	50.0000	53.0	70.00- 130.00	100.00
12.612	12.612	(0.934)	120	293995			16.83- 76.83	46.83
12.611	12.611	(0.934)	77	89175			0.00- 44.20	14.20
79 2-Chlorotoluene						CAS #: 95-49-8		
12.634	12.634	(0.936)	91	630565	50.0000	52.7	70.00- 130.00	100.00
12.636	12.636	(0.936)	126	159287			0.00- 55.26	25.26
12.633	12.633	(0.936)	63	117771			0.00- 48.68	18.68
80 4-Chlorotoluene						CAS #: 106-43-4		
12.681	12.681	(0.939)	91	576862	50.0000	51.0	70.00- 130.00	100.00
12.681	12.681	(0.939)	126	173620			0.10- 60.10	30.10
12.680	12.680	(0.939)	63	80643			0.00- 43.98	13.98
81 tert-Butylbenzene						CAS #: 98-06-6		
12.974	12.974	(0.961)	119	587434	50.0000	53.2	70.00- 130.00	100.00
12.973	12.973	(0.961)	91	443244			45.45- 105.45	75.45
12.974	12.974	(0.961)	134	119473			0.00- 50.34	20.34
82 1,2,4-trimethylbenzene						CAS #: 95-63-6		
13.012	13.012	(0.964)	105	613826	50.0000	52.8	70.00- 130.00	100.00

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82 1,2,4-trimethylbenzene (continued)								
13.011	13.011	(0.964)	120	272660			14.42- 74.42	44.42
13.009	13.009	(0.964)	77	83349			0.00- 43.58	13.58
83 sec-Butylbenzene						CAS #: 135-98-8		
13.190	13.190	(0.977)	105	740269	50.0000	51.8	70.00- 130.00	100.00
13.191	13.191	(0.977)	134	136378			0.00- 48.42	18.42
13.189	13.189	(0.977)	91	123000			0.00- 46.62	16.62
84 p-Isopropyltoluene						CAS #: 99-87-6		
13.326	13.326	(0.987)	119	637634	50.0000	52.6	70.00- 130.00	100.00
13.327	13.327	(0.987)	134	159555			0.00- 55.02	25.02
13.326	13.326	(0.987)	91	163111			0.00- 55.58	25.58
85 1,3-Dichlorobenzene						CAS #: 541-73-1		
13.426	13.426	(0.995)	146	337454	50.0000	52.0	70.00- 130.00	100.00
13.426	13.426	(0.995)	148	218628			34.79- 94.79	64.79
13.425	13.425	(0.994)	111	145477			13.11- 73.11	43.11
* 86 1,4-DICHLOROBENZENE-d4 (IS)						CAS #: 3855-82-1		
13.500	13.500	(1.000)	152	210064	50.0000		70.00- 130.00	100.00
13.500	13.500	(1.000)	150	373274			147.70- 207.70	177.70
13.499	13.499	(1.000)	115	134955			34.24- 94.24	64.24
87 1,4-Dichlorobenzene						CAS #: 106-46-7		
13.532	13.532	(1.002)	146	342377	50.0000	51.8	70.00- 130.00	100.00
13.532	13.532	(1.002)	148	220309			34.35- 94.35	64.35
13.532	13.532	(1.002)	111	146130			12.68- 72.68	42.68
88 Benzyl Chloride						CAS #: 100-44-7		
13.646	13.646	(1.011)	91	317808	50.0000	53.6	70.00- 130.00	100.00
13.644	13.644	(1.011)	65	42926			0.00- 43.51	13.51
89 n-Butylbenzene						CAS #: 104-51-8		
13.740	13.740	(1.018)	91	573618	50.0000	52.3	70.00- 130.00	100.00
13.740	13.740	(1.018)	92	312056			24.40- 84.40	54.40
13.741	13.741	(1.018)	134	139058			0.00- 54.24	24.24
90 1,2-Dichlorobenzene						CAS #: 95-50-1		
13.909	13.909	(1.030)	146	313273	50.0000	51.2	70.00- 130.00	100.00
13.909	13.909	(1.030)	148	199758			33.76- 93.76	63.76
13.908	13.908	(1.030)	111	141850			15.28- 75.28	45.28
91 1,2-dibromo-3-chloropropane						CAS #: 96-12-8		
14.592	14.592	(1.081)	75	40665	50.0000	53.1	70.00- 130.00	100.00
14.594	14.594	(1.081)	155	29260			41.95- 101.95	71.95

Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\50CCV31.D
Report Date: 26-Sep-2002 08:44

RT	EXP RT	REL RT	MASS	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	TARGET RANGE	RATIO
91 1,2-dibromo-3-chloropropane (continued)								
14.594	14.594	(1.081)	157	37118			61.28- 121.28	91.28
92 1,2,4-Trichlorobenzene						CAS #: 120-82-1		
15.246	15.246	(1.129)	180	225668	50.0000	52.8	70.00- 130.00	100.00
15.246	15.246	(1.129)	182	216033			65.73- 125.73	95.73
15.245	15.245	(1.129)	145	72534			2.14- 62.14	32.14
93 Hexachlorobutadiene						CAS #: 87-68-3		
15.343	15.343	(1.137)	225	76595			70.00- 130.00	100.00
15.342	15.342	(1.136)	223	48350	50.0000	50.7	33.12- 93.12	63.12
15.343	15.343	(1.136)	227	49821			35.04- 95.04	65.04
94 Naphthalene						CAS #: 91-20-3		
15.427	15.427	(1.143)	128	559211	50.0000	57.4	70.00- 130.00	100.00
15.427	15.427	(1.143)	127	71046			0.00- 42.70	12.70
15.427	15.427	(1.143)	129	60580			0.00- 40.83	10.83
95 1,2,3-trichlorobenzene						CAS #: 87-61-6		
15.595	15.595	(1.155)	180	206861	50.0000	54.1	70.00- 130.00	100.00
15.595	15.595	(1.155)	182	199453			66.42- 126.42	96.42
15.594	15.594	(1.155)	145	69733			3.71- 63.71	33.71

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\50CCV31.D
Report Date: 26-Sep-2002 08:44

PEL Laboratories, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vms03.i
Lab File ID: 50CCV31.D
Lab Smp Id: 092502CCVA31
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\Vms03\dd\chem\vms03.i\M3092502.b\8260A.m
Misc Info:

Calibration Date: 27-AUG-2002
Calibration Time: 08:53
Client Smp ID: 092502CCVA31
Level: LOW
Sample Type: WATER

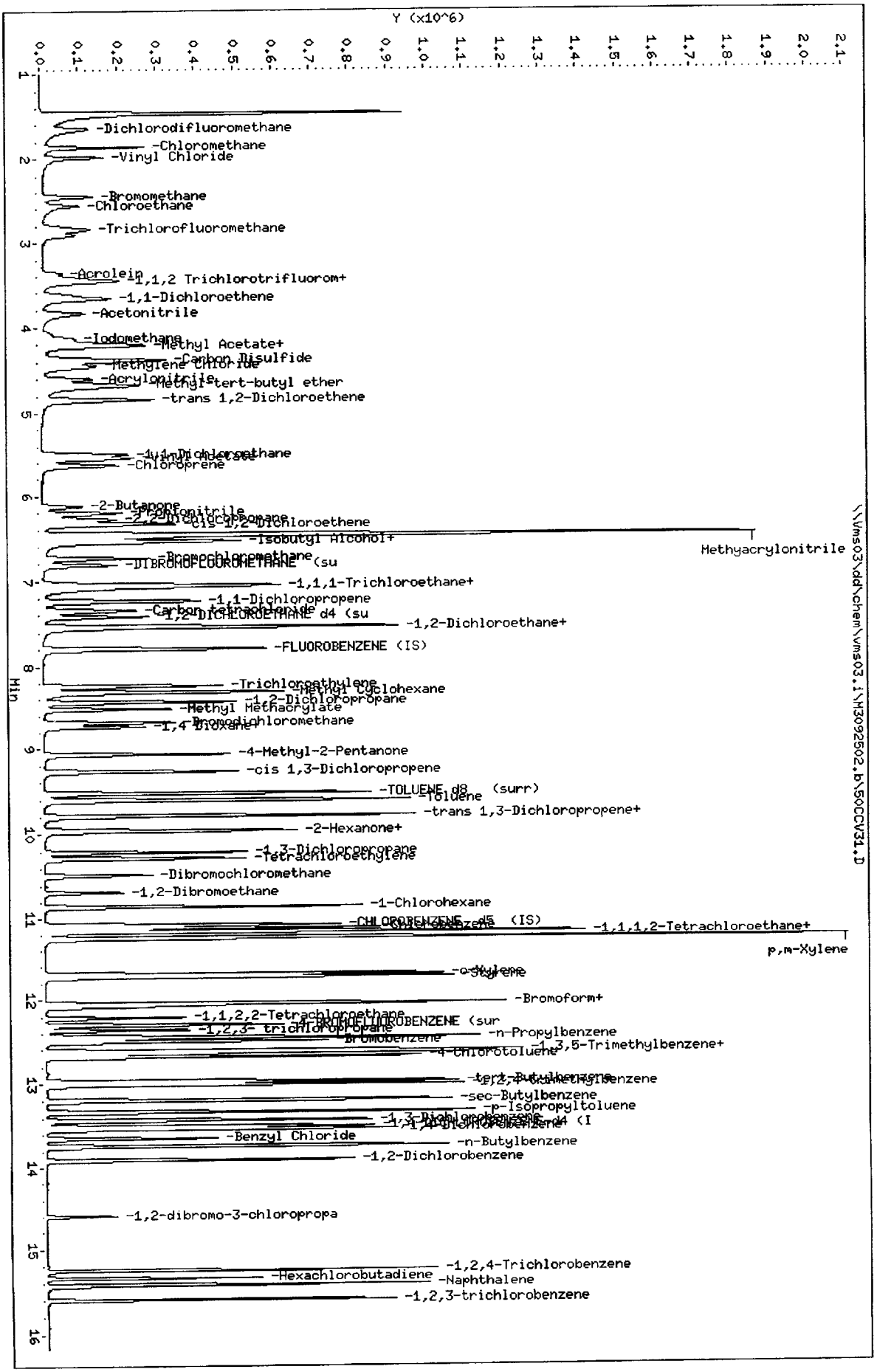
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
42 FLUOROBENZENE (IS	574299	287150	1148598	556115	-3.17
63 CHLOROBENZENE d5	414562	207281	829124	400449	-3.40
86 1,4-DICHLOROBENZE	223111	111556	446222	210064	-5.85

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
42 FLUOROBENZENE (IS	7.80	7.30	8.30	7.79	-0.10
63 CHLOROBENZENE d5	11.08	10.58	11.58	11.07	-0.05
86 1,4-DICHLOROBENZE	13.50	13.00	14.00	13.50	-0.03

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\Vms03\dd\chem\vms03.i\H3092502.b\50CCV31.D
Date : 25-SEP-2002 06:02
Client ID: 092502CCVA31
Sample Info: 092502CCVA31
Purge Volume: 5.0
Column phase: DB-624

Instrument: vms03.i
Operator:
Column diameter: 0.18



Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\50CCV31.D

Date : 25-SEP-2002 06:02

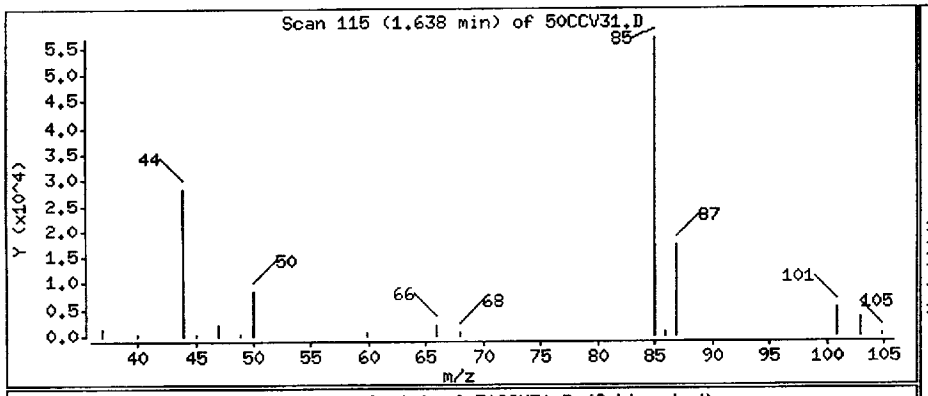
Client ID: 092502CCVA31 | Instrument: vms03.i

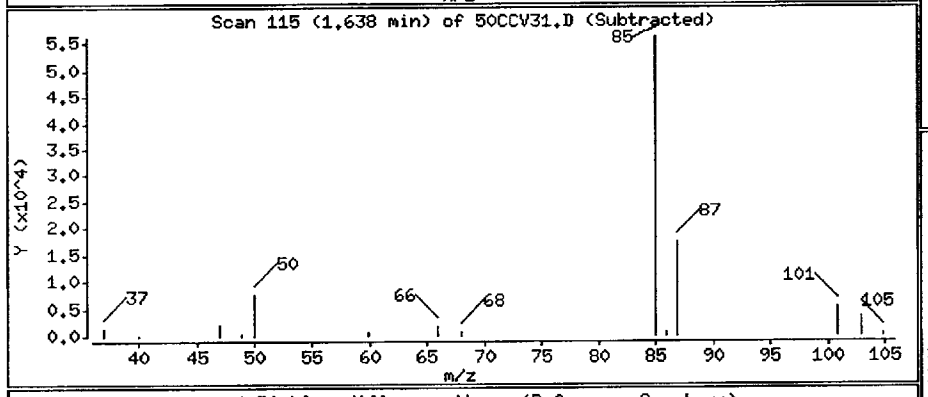
Sample Info: 092502CCVA31

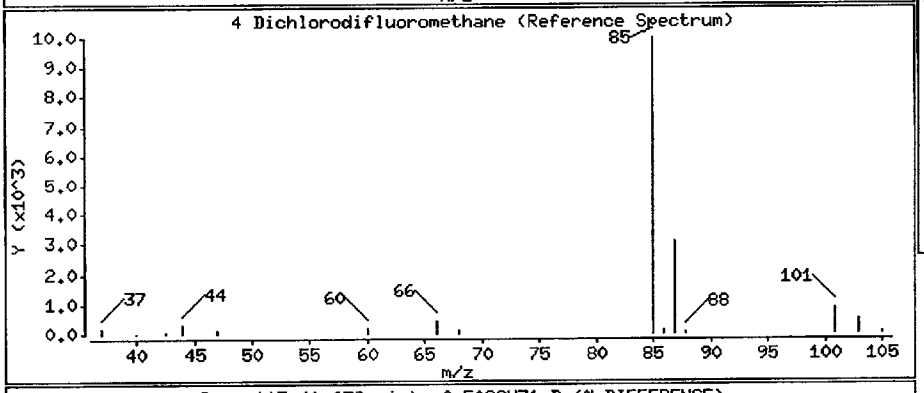
Purge Volume: 5.0 | Operator:

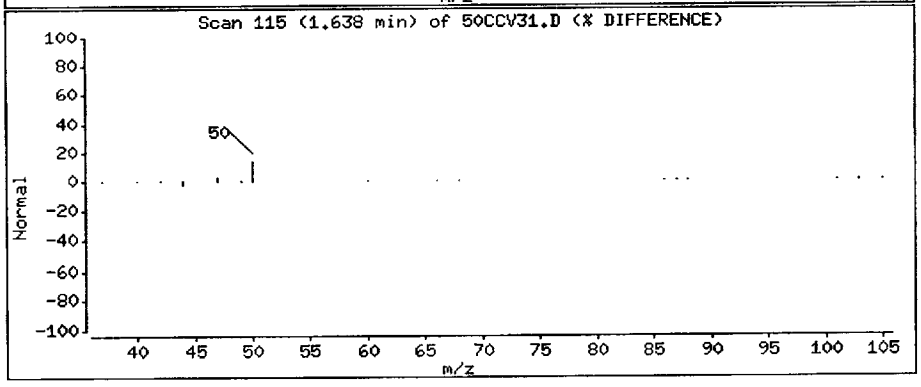
Column phase: DB-624 | Column diameter: 0.18

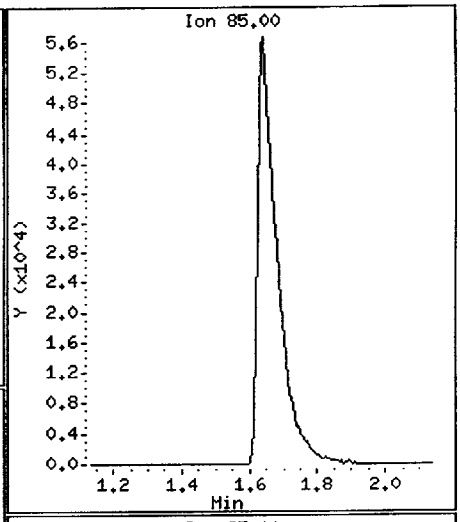
4 Dichlorodifluoromethane | Concentration: 44.3 ug/l

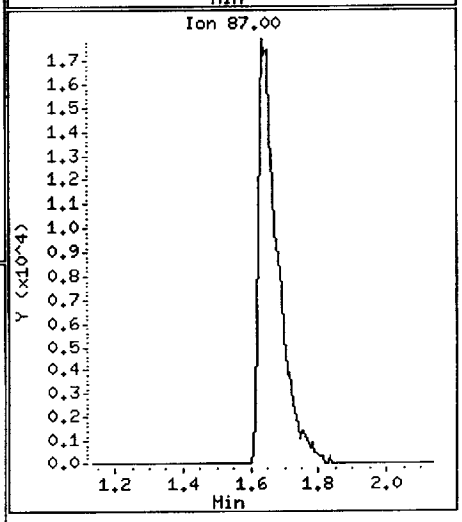












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\50CCV31.D

Date : 25-SEP-2002 06:02

Client ID: 092502CCVA31

Instrument: vms03.i

Sample Info: 092502CCVA31

Purge Volume: 5.0

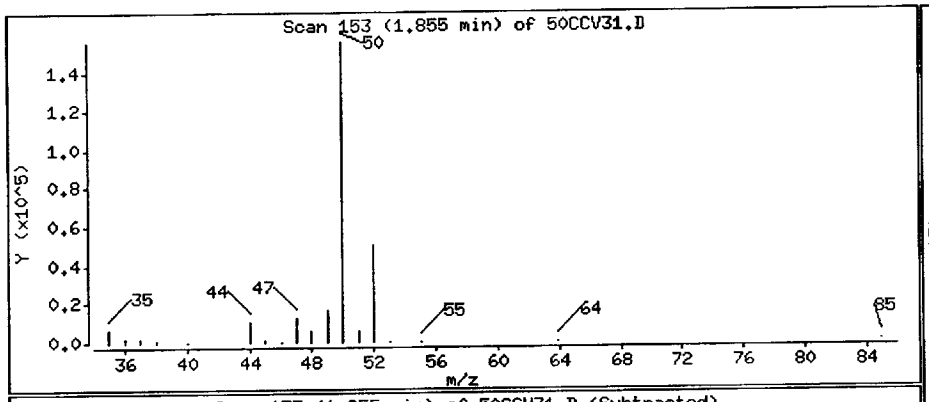
Operator:

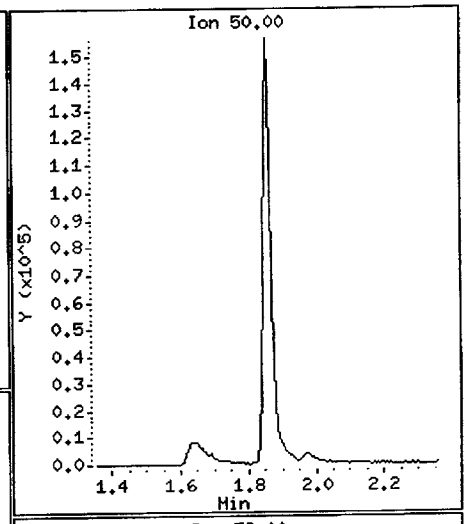
Column phase: DB-624

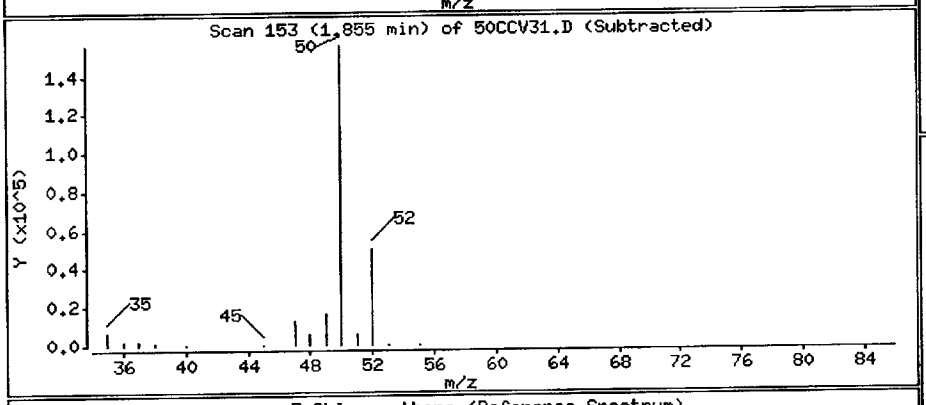
Column diameter: 0.18

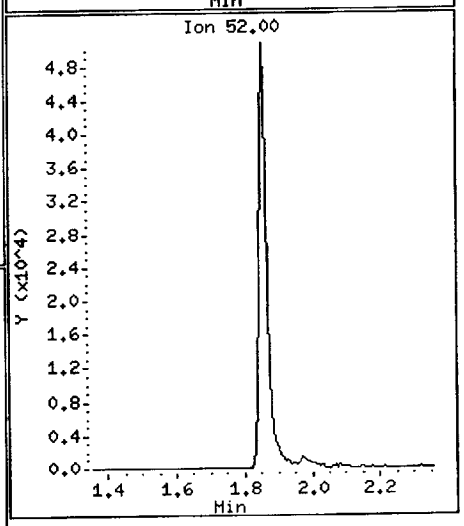
5 Chloromethane

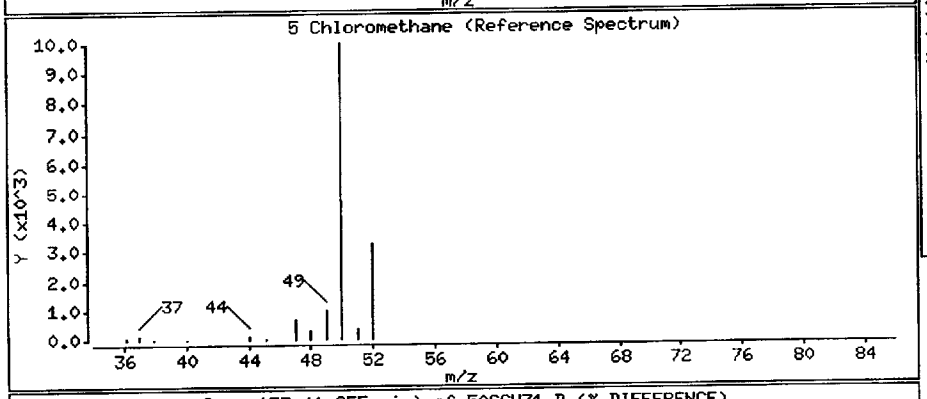
Concentration: 44.0 ug/l

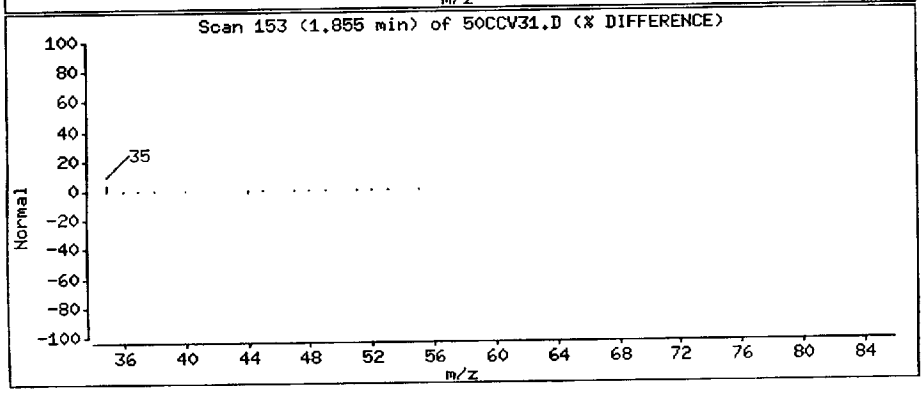












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\50CCV31.D

Date : 25-SEP-2002 06:02

Client ID: 092502CCVA31

Instrument: vms03.i

Sample Info: 092502CCVA31

Purge Volume: 5.0

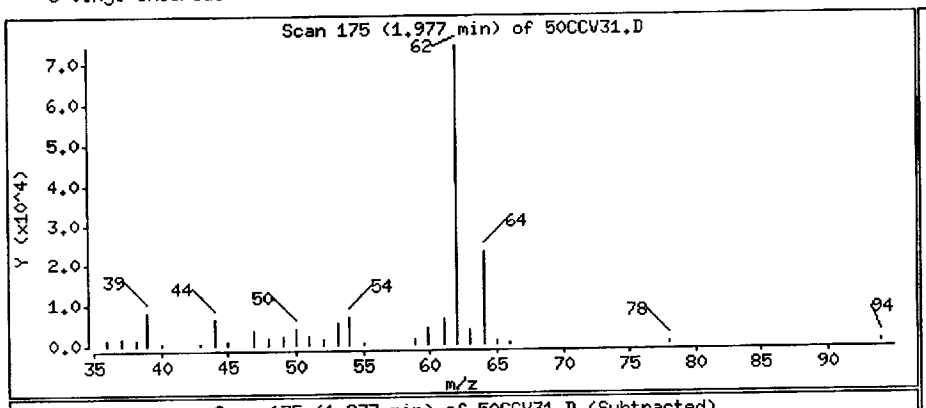
Operator:

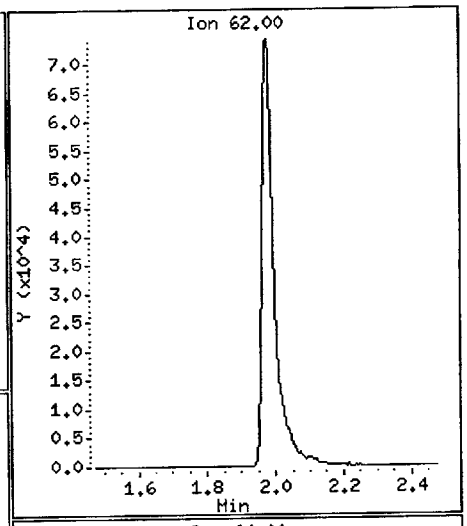
Column phase: DB-624

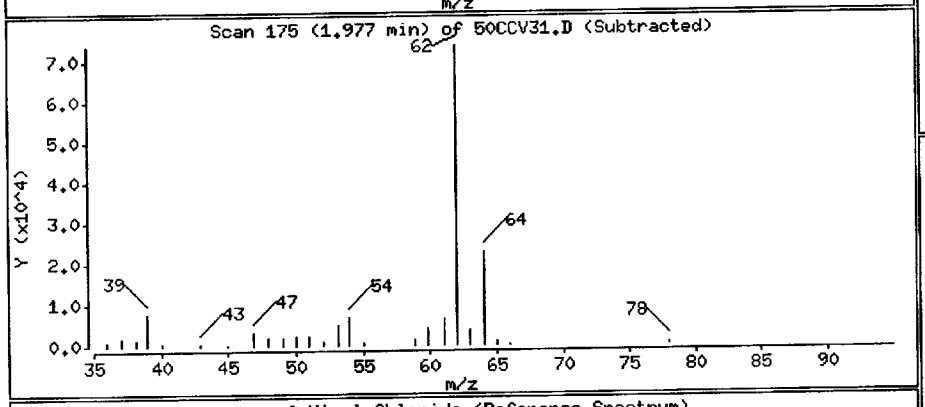
Column diameter: 0.18

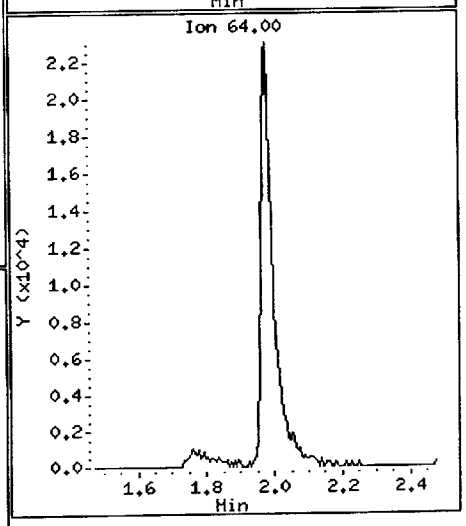
6 Vinyl Chloride

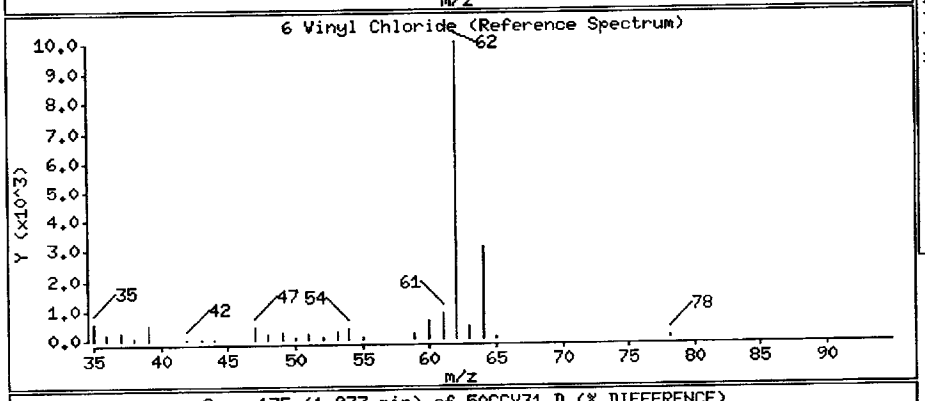
Concentration: 42.3 ug/l

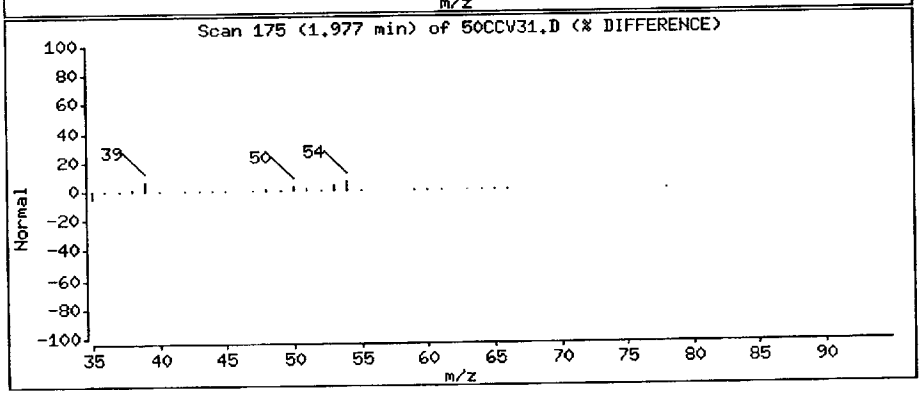












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\50CCV31.D

Date : 25-SEP-2002 06:02

Client ID: 092502CCVA31

Instrument: vms03.i

Sample Info: 092502CCVA31

Purge Volume: 5.0

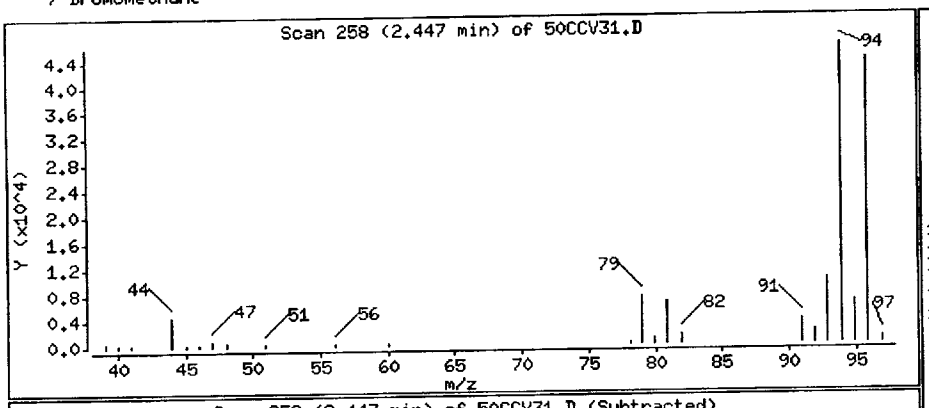
Operator:

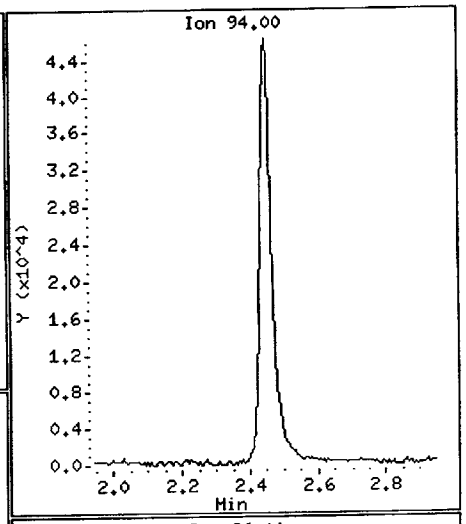
Column phase: DB-624

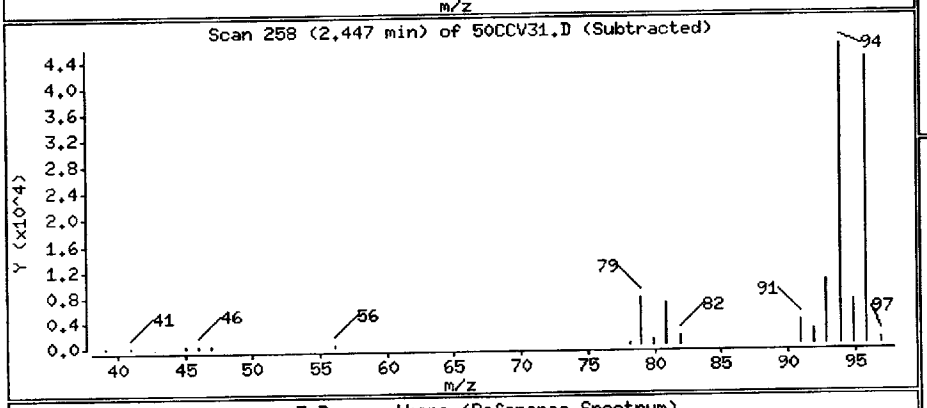
Column diameter: 0.18

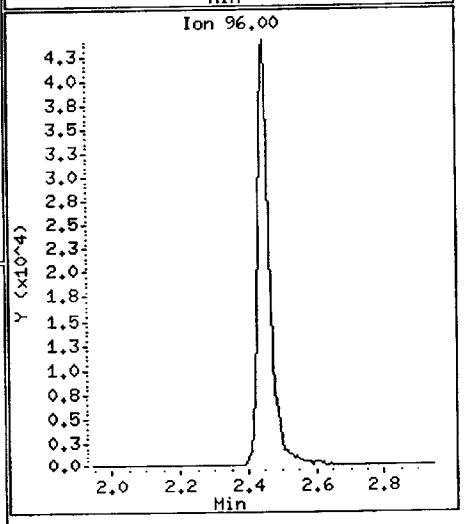
7 Bromomethane

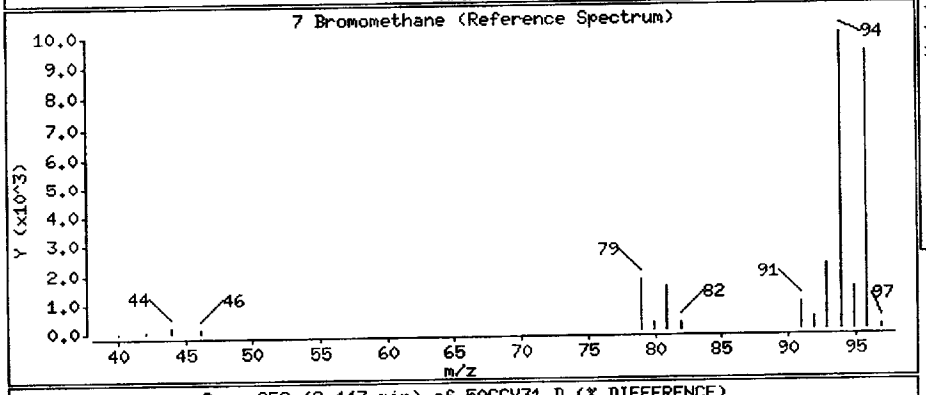
Concentration: 48.9 ug/l

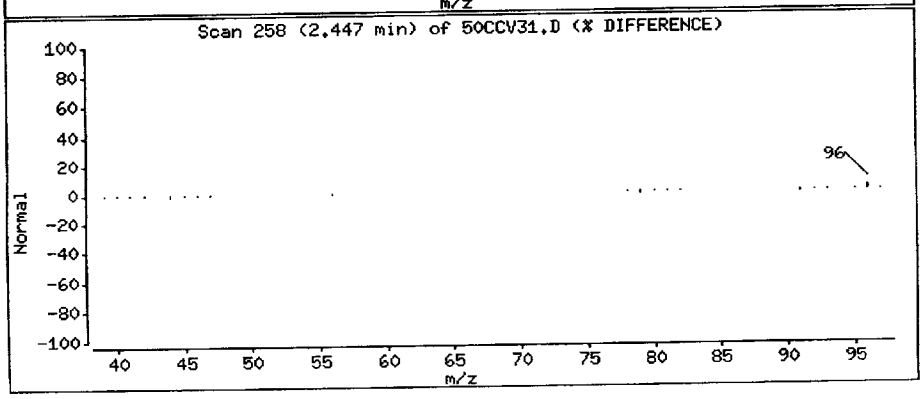












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Date : 25-SEP-2002 06:02

Client ID: 092502CCVA31

Instrument: vms03.i

Sample Info: 092502CCVA31

Purge Volume: 5.0

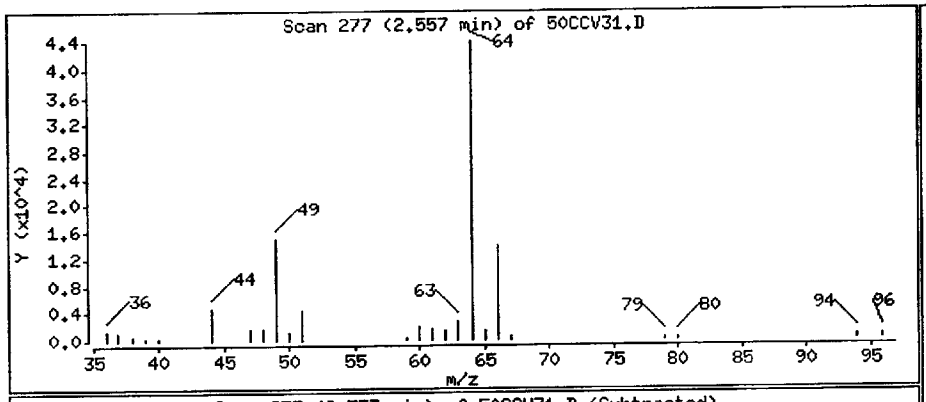
Operator:

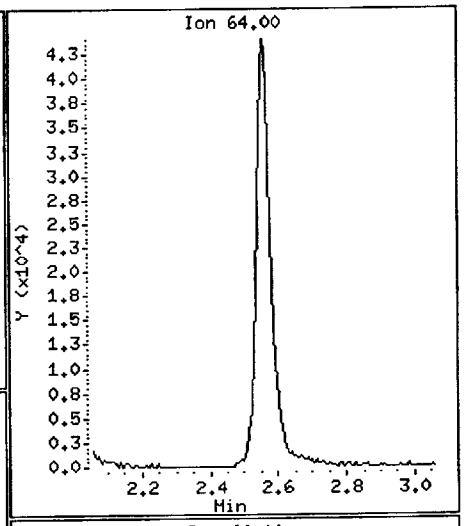
Column phase: DB-624

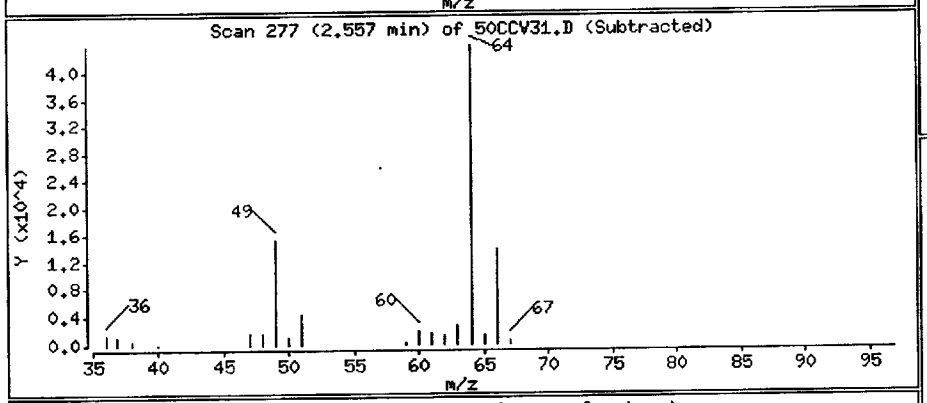
Column diameter: 0.18

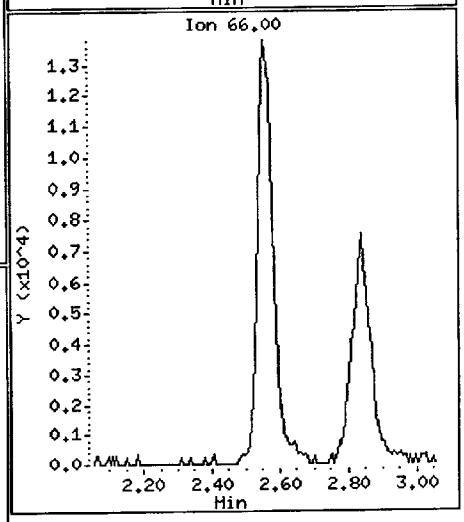
8 Chloroethane

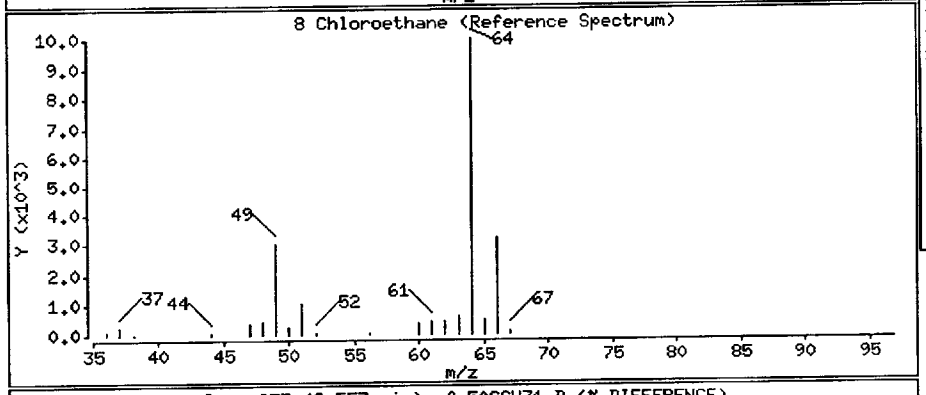
Concentration: 48.7 ug/l

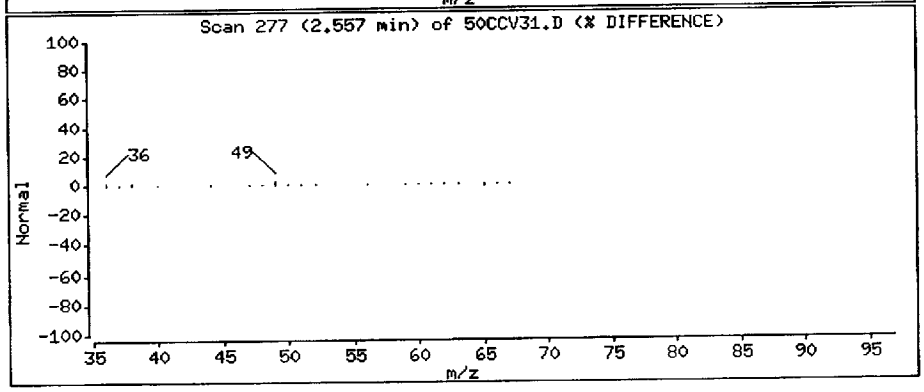












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\50CCV31.D

Date : 25-SEP-2002 06:02

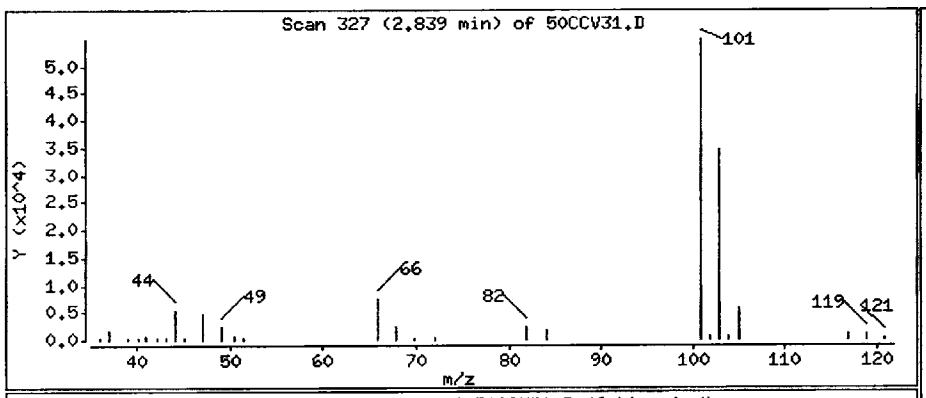
Client ID: 092502CCVA31 | Instrument: vms03.i

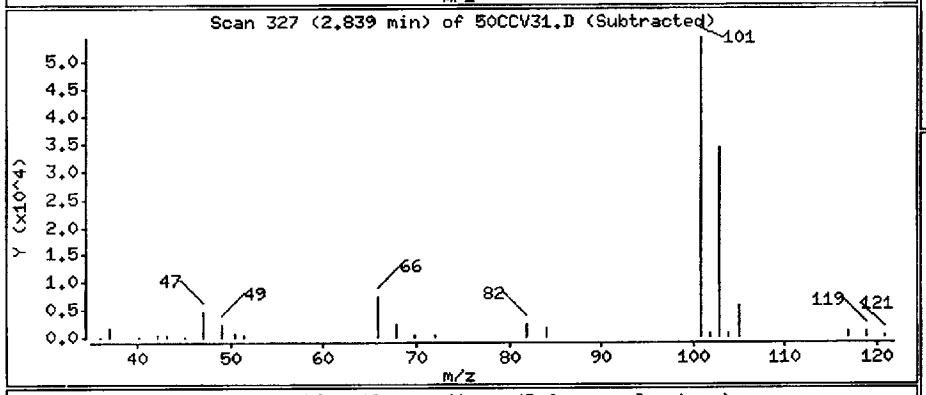
Sample Info: 092502CCVA31

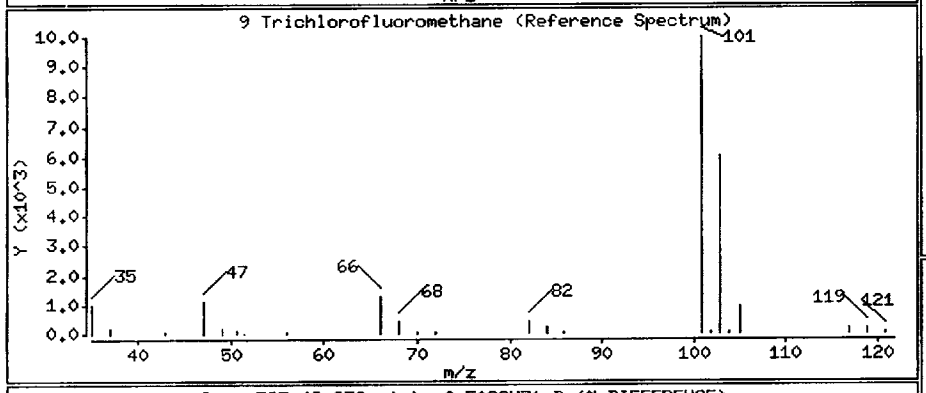
Purge Volume: 5.0 | Operator:

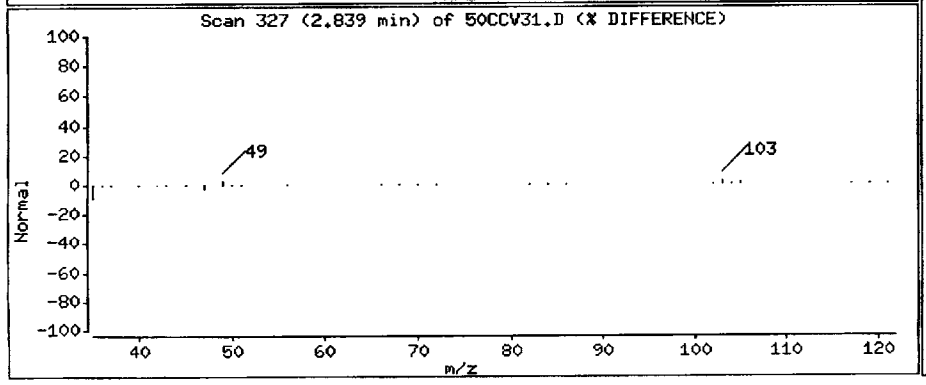
Column phase: DB-624 | Column diameter: 0.18

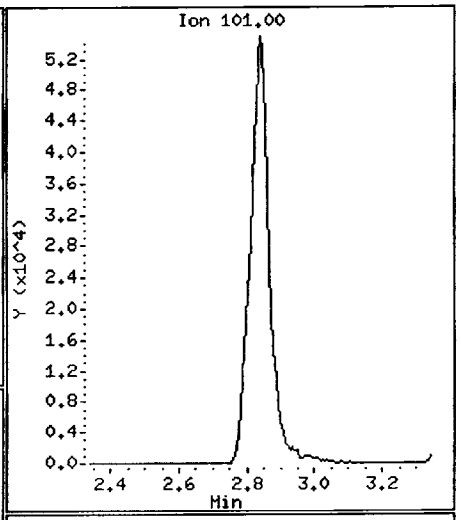
9 Trichlorofluoromethane | Concentration: 54.7 ug/l

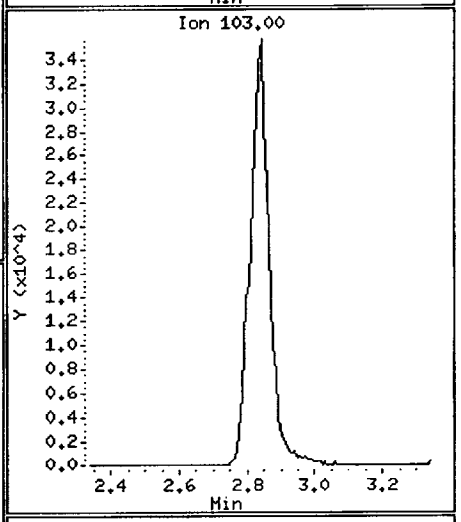


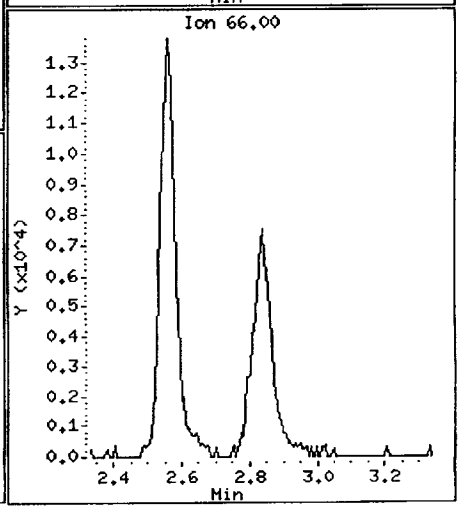












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\50CCV31.D

Date : 25-SEP-2002 06:02

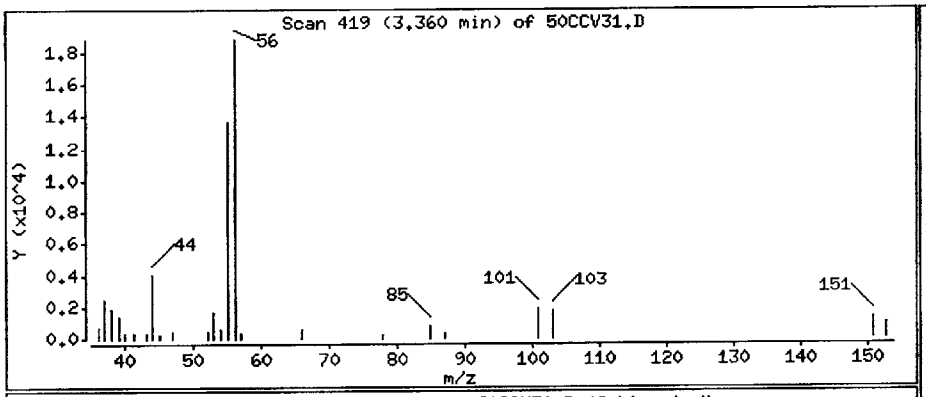
Client ID: 092502CCVA31 | Instrument: vms03.i

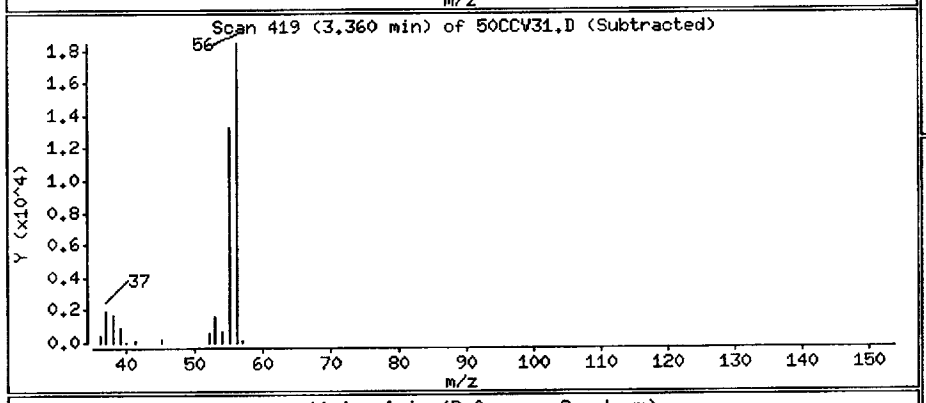
Sample Info: 092502CCVA31

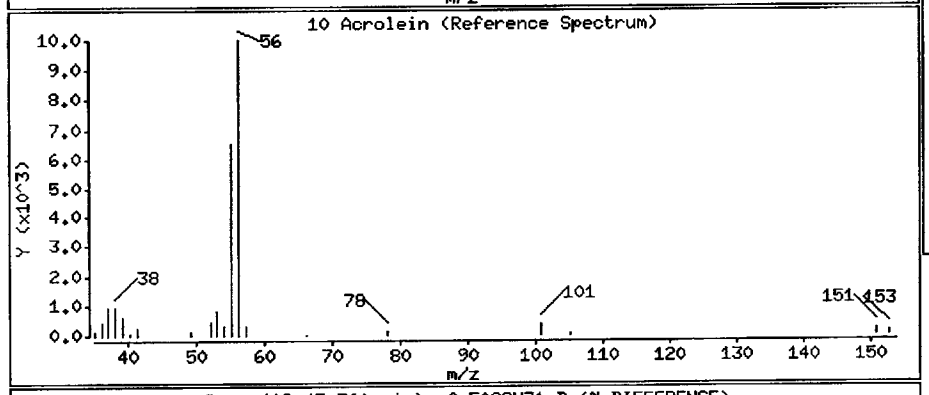
Purge Volume: 5.0 | Operator:

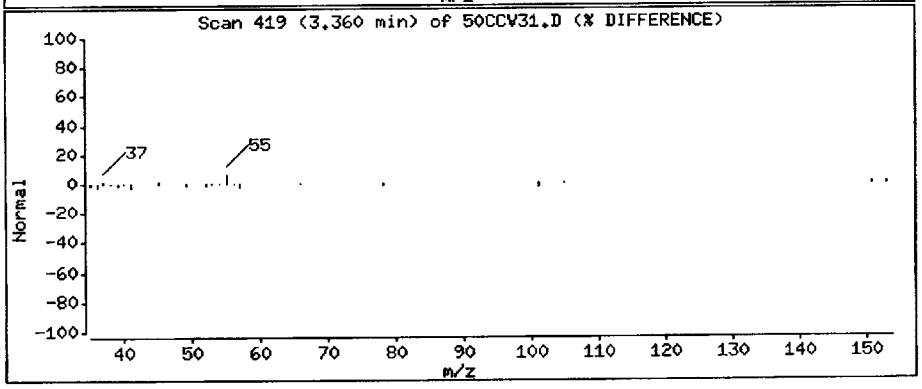
Column phase: DB-624 | Column diameter: 0.18

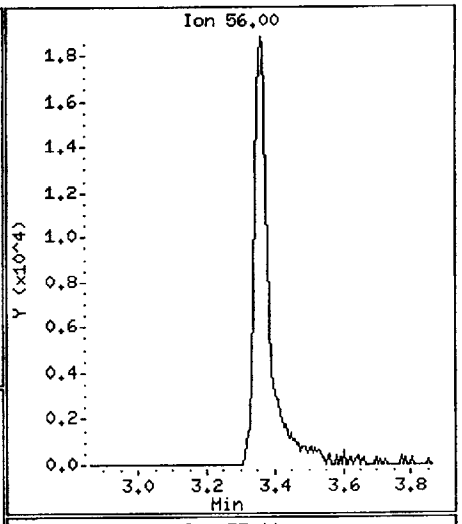
10 Acrolein | Concentration: 106 ug/l

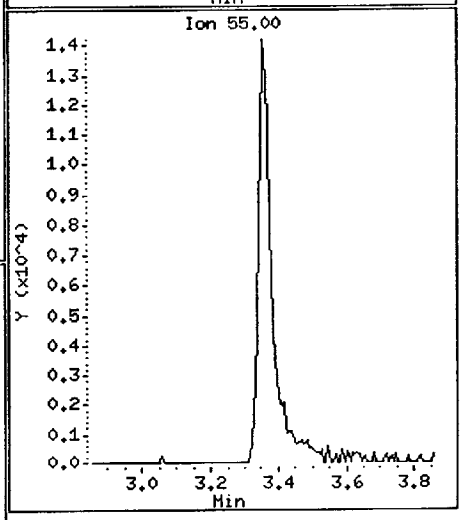












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\50CCV31.D

Date : 25-SEP-2002 06:02

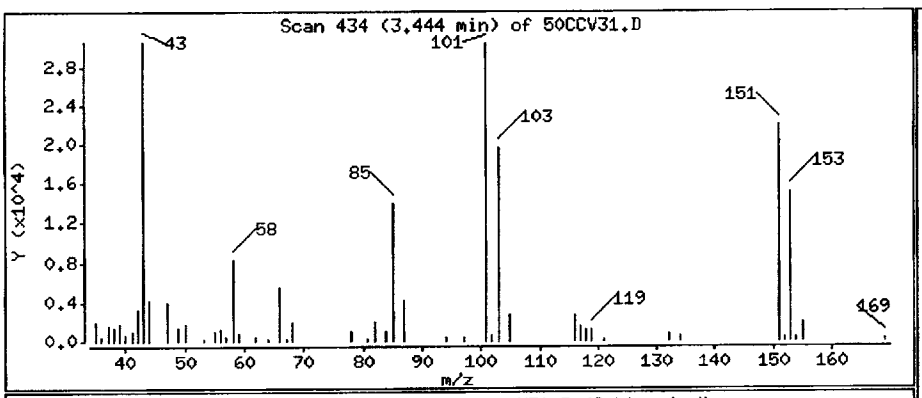
Client ID: 092502CCVA31 | Instrument: vms03.i

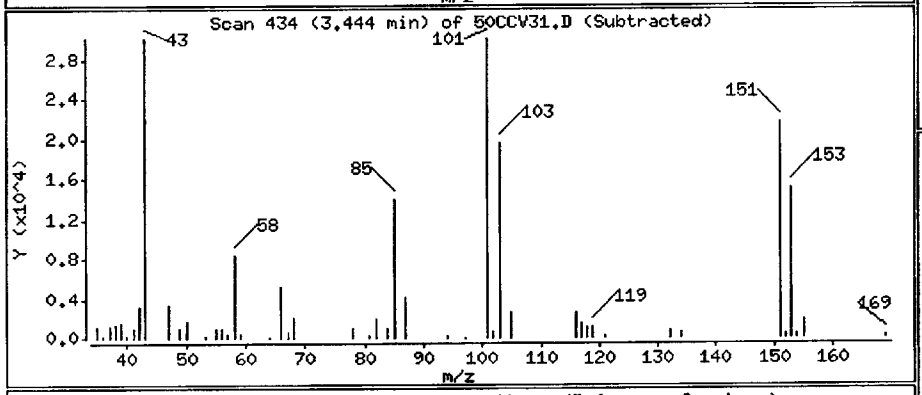
Sample Info: 092502CCVA31

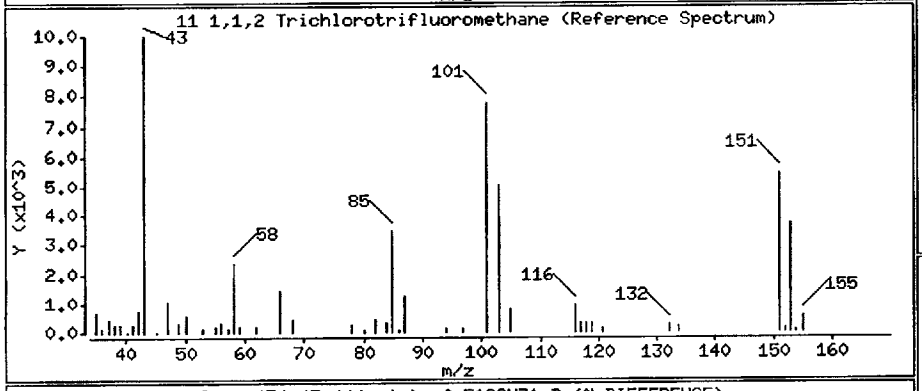
Purge Volume: 5.0 | Operator:

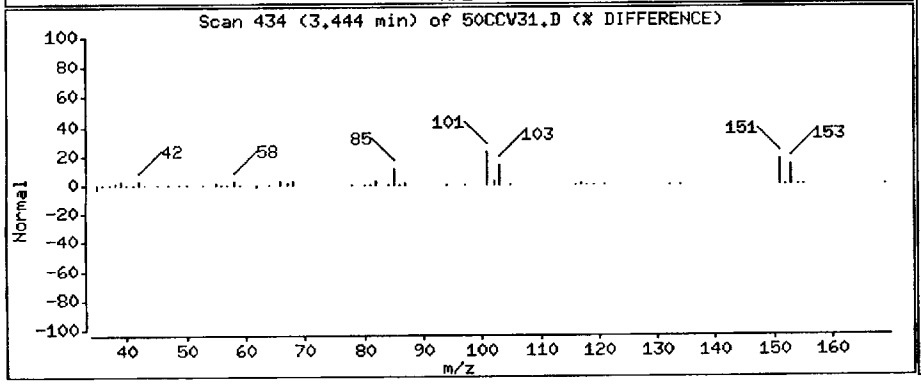
Column phase: DB-624 | Column diameter: 0.18

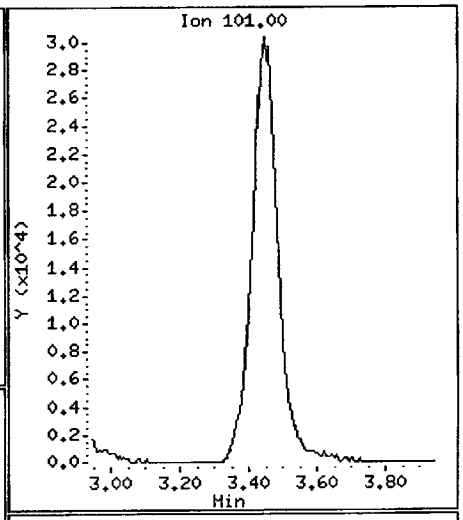
11 1,1,2 Trichlorotrifluoromethane | Concentration: 53.4 ug/l

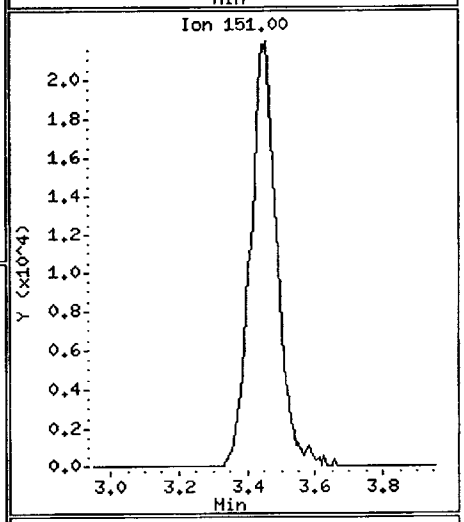


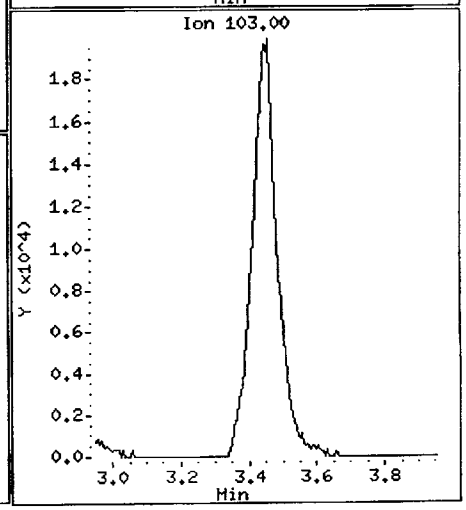












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Date : 25-SEP-2002 06:02

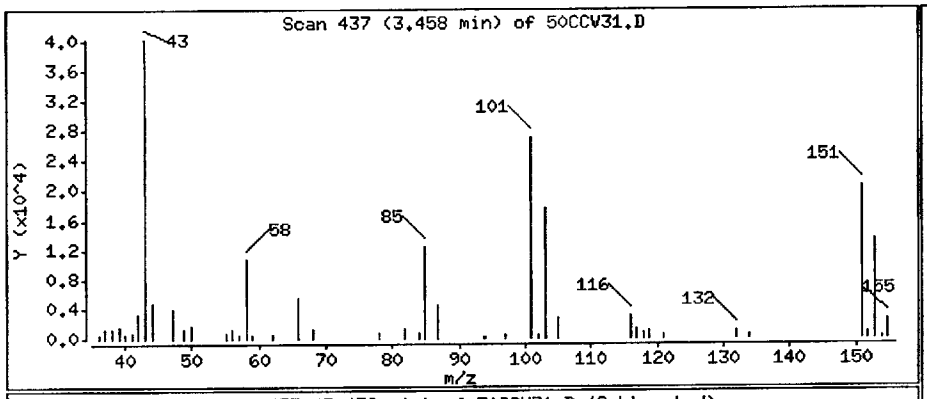
Client ID: 092502CCVA31 | Instrument: vms03.i

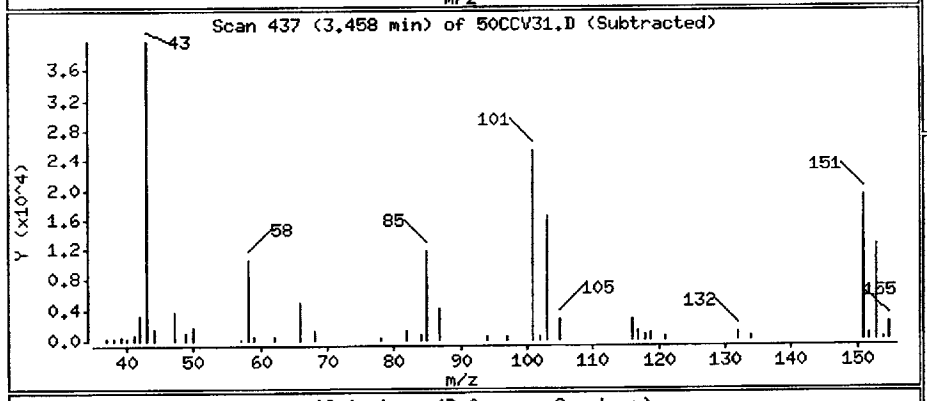
Sample Info: 092502CCVA31

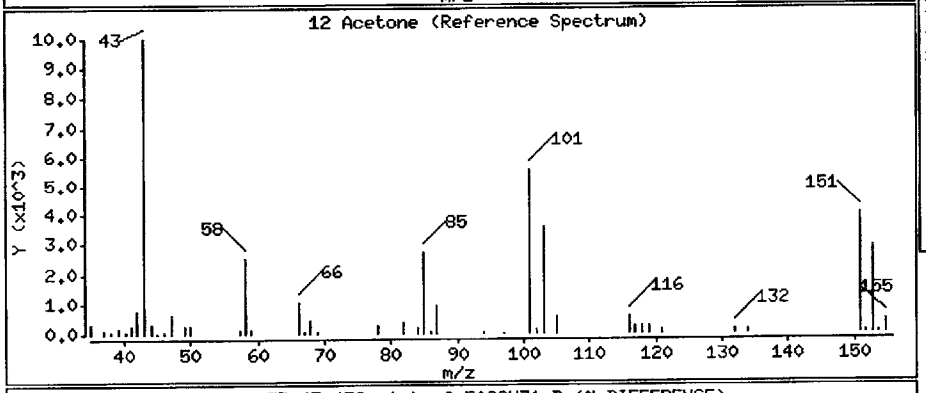
Purge Volume: 5.0 | Operator:

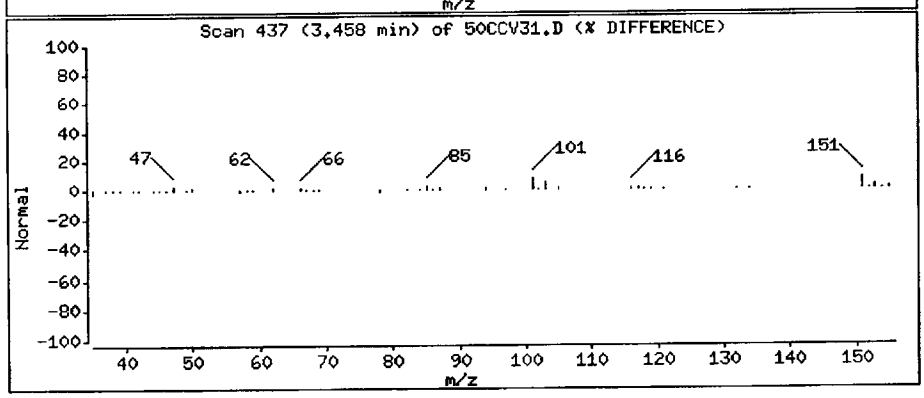
Column phase: DB-624 | Column diameter: 0.18

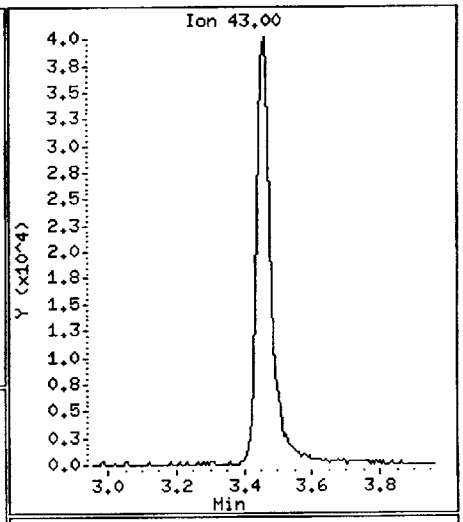
12 Acetone | Concentration: 100 ug/l

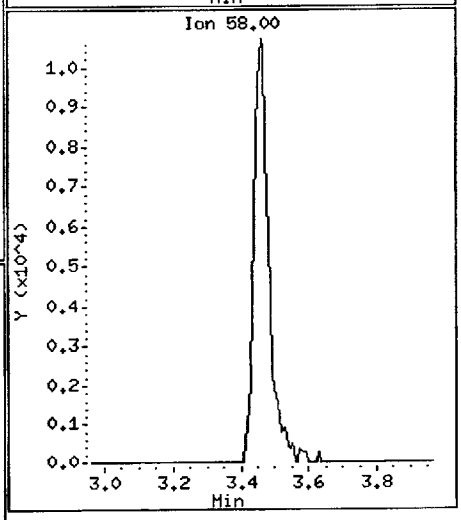












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Date : 25-SEP-2002 06:02

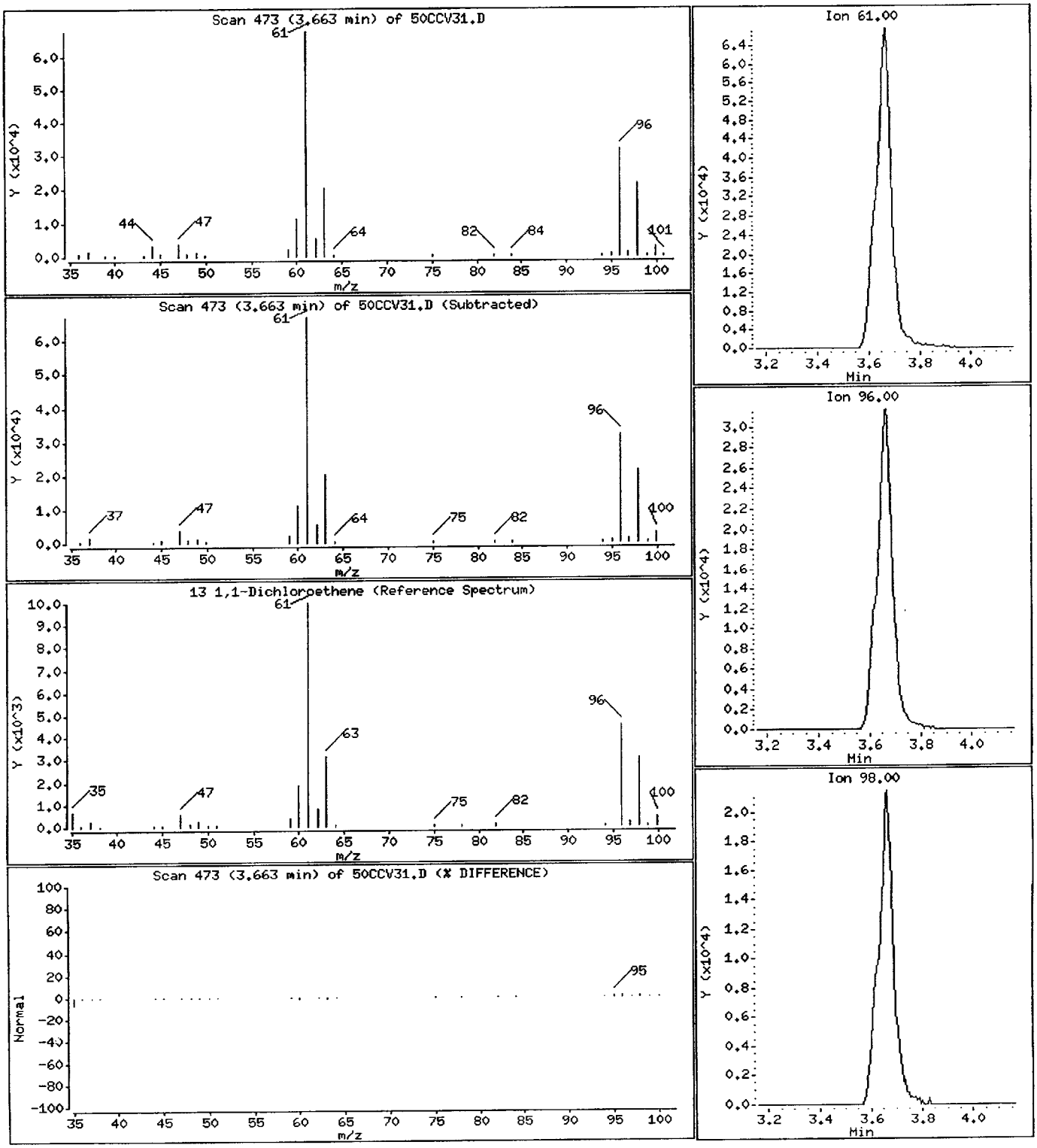
Client ID: 092502CCVA31 | Instrument: vms03.i

Sample Info: 092502CCVA31

Purge Volume: 5.0 | Operator:

Column phase: DB-624 | Column diameter: 0.18

13 1,1-Dichloroethene | Concentration: 49.2 ug/l



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Date : 25-SEP-2002 06:02

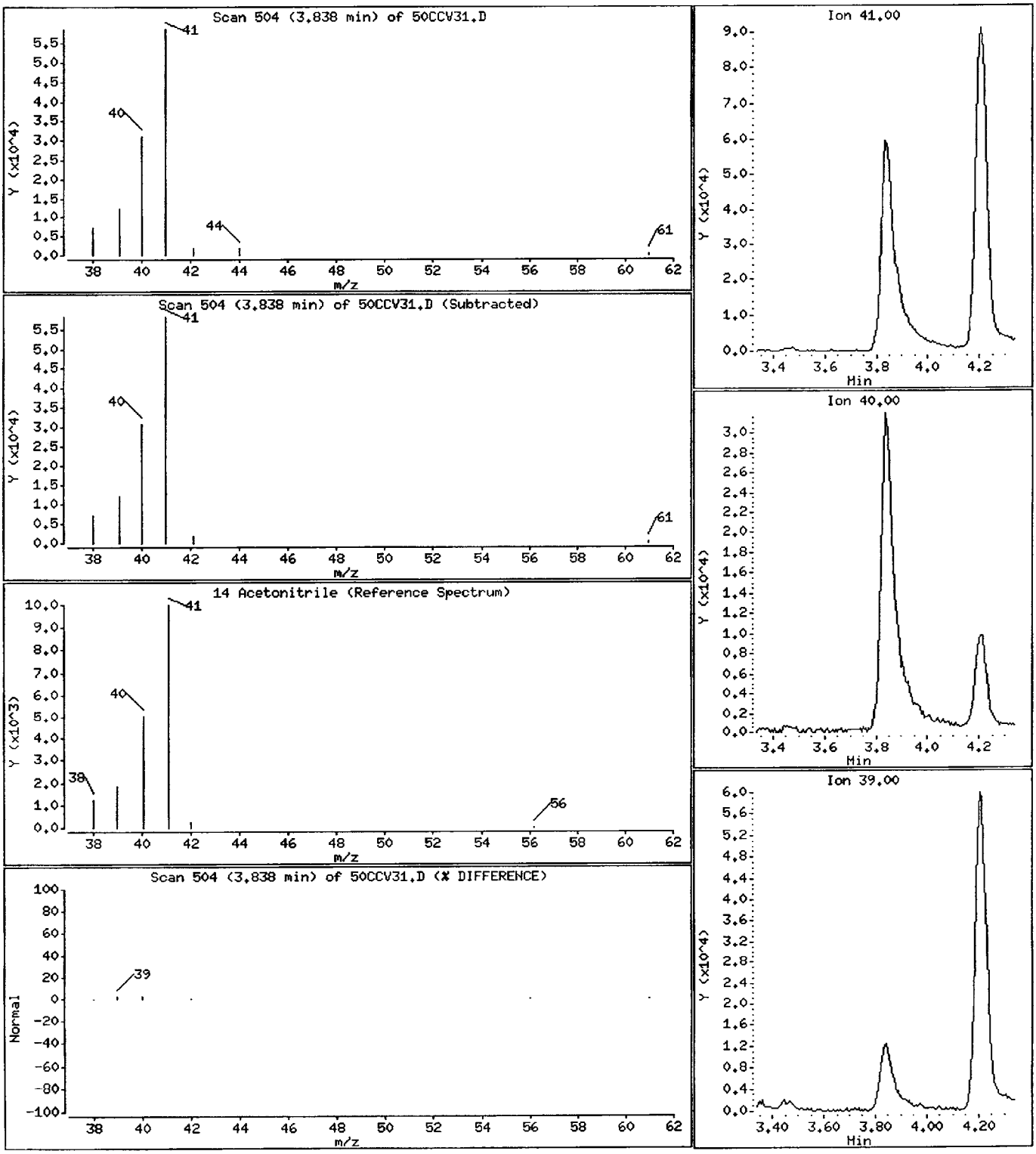
Client ID: 092502CCVA31 | Instrument: vms03.i

Sample Info: 092502CCVA31

Purge Volume: 5.0 | Operator:

Column phase: DB-624 | Column diameter: 0.18

14 Acetonitrile | Concentration: 489 ug/l



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Date : 25-SEP-2002 06:02

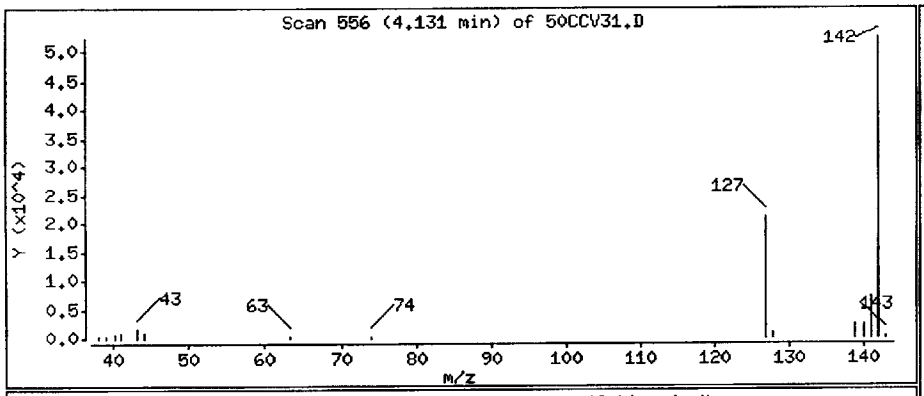
Client ID: 092502CCVA31 | Instrument: vms03.i

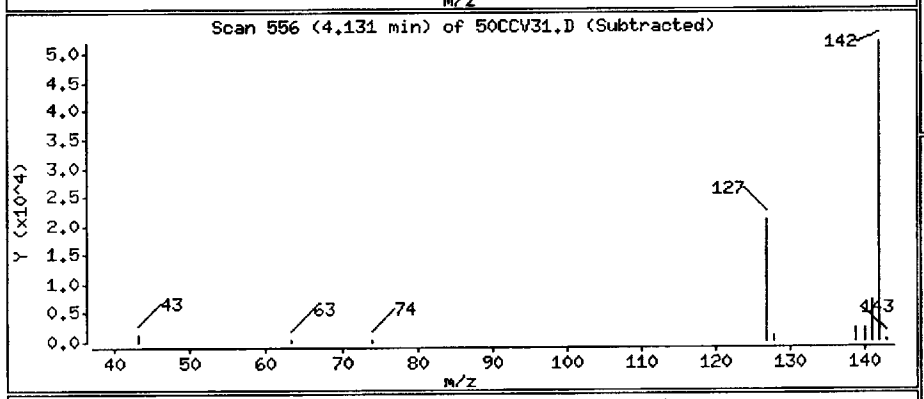
Sample Info: 092502CCVA31

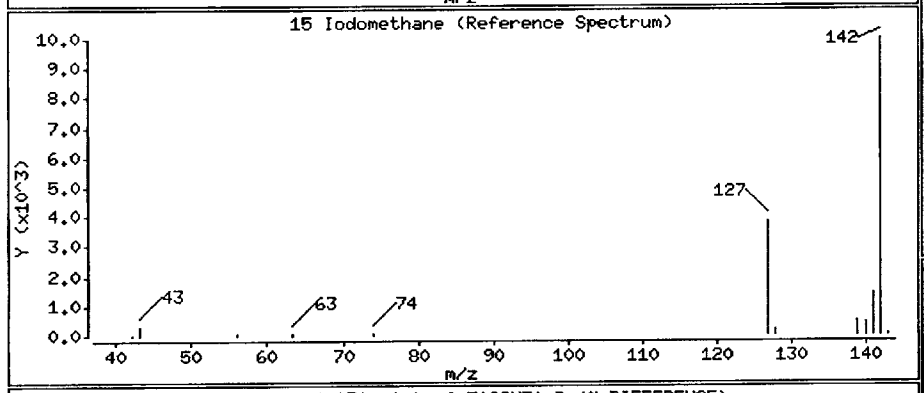
Purge Volume: 5.0 | Operator:

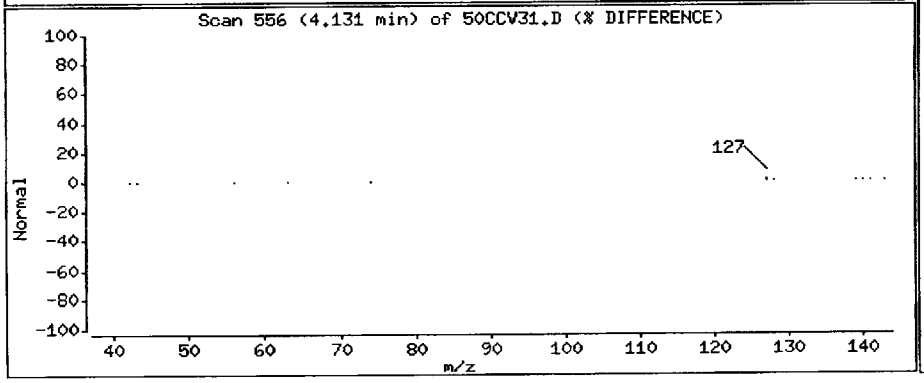
Column phase: DB-624 | Column diameter: 0.18

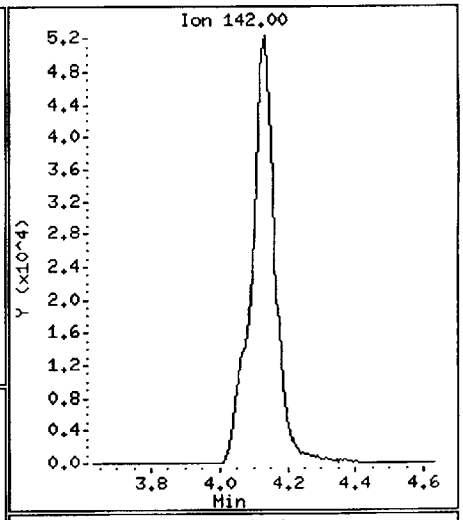
15 Iodomethane | Concentration: 48.5 ug/l

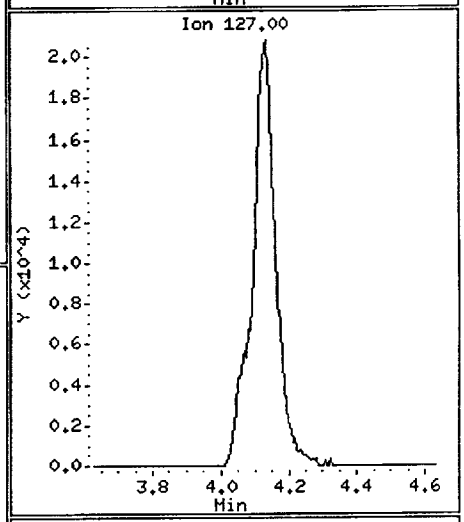


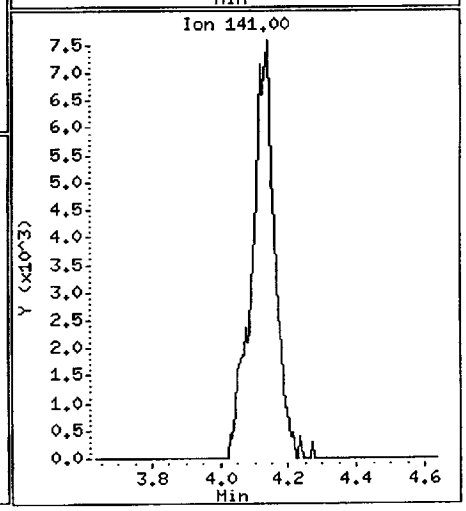












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Date : 25-SEP-2002 06:02

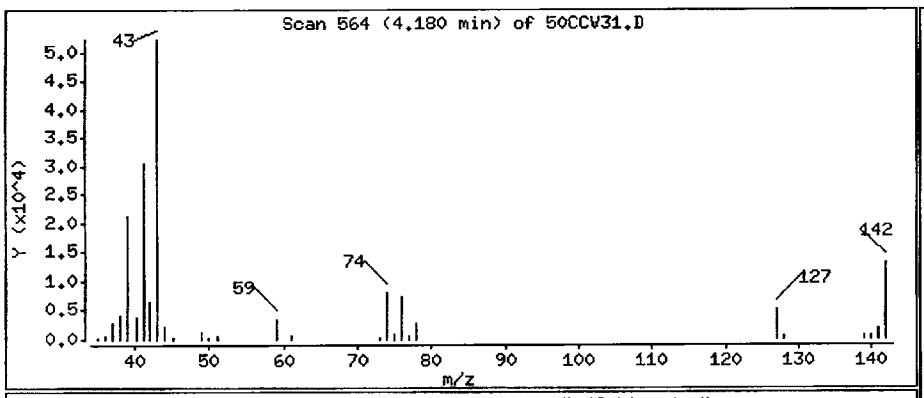
Client ID: 092502CCVA31 | Instrument: vms03.i

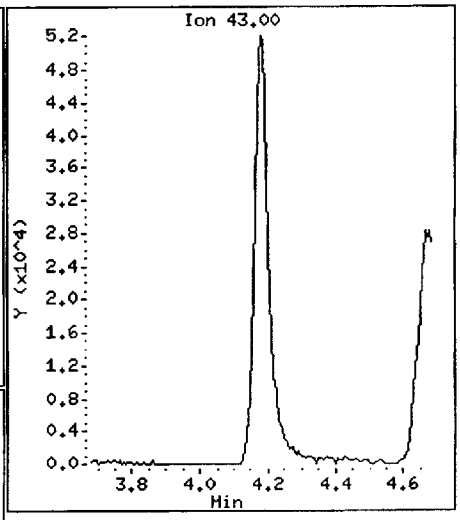
Sample Info: 092502CCVA31

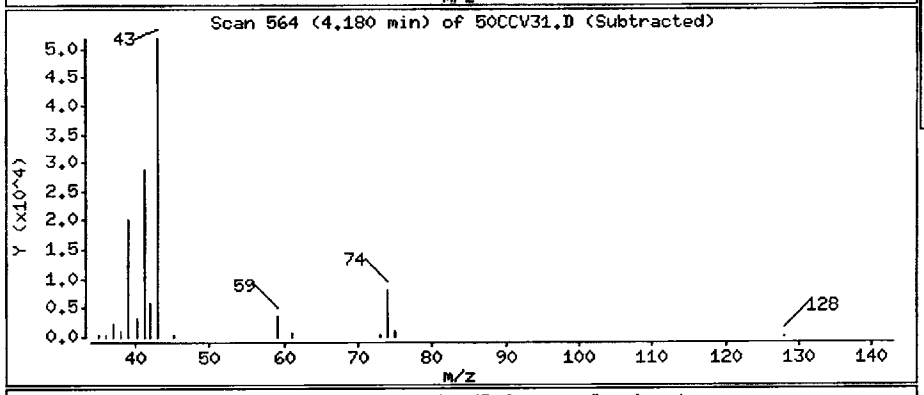
Purge Volume: 5.0 | Operator:

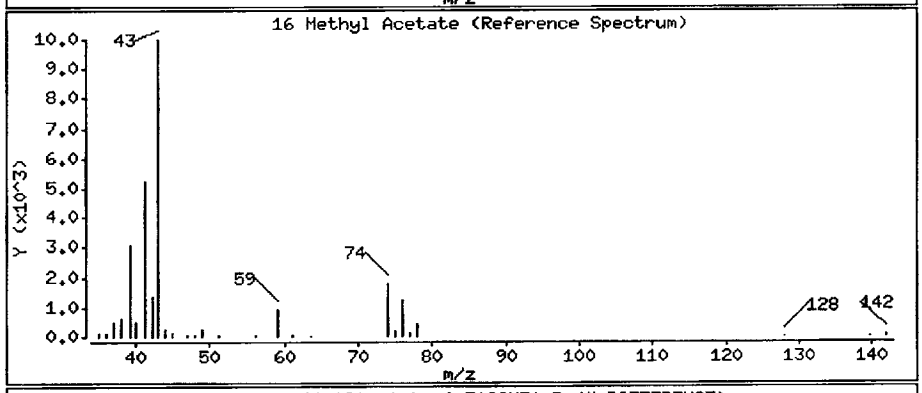
Column phase: DB-624 | Column diameter: 0.18

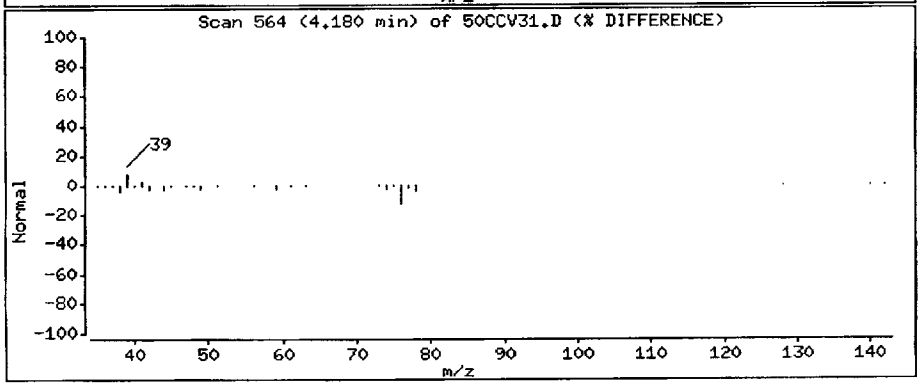
16 Methyl Acetate | Concentration: 52.8 ug/l











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Date : 25-SEP-2002 06:02

Client ID: 092502CCVA31

Instrument: vms03.i

Sample Info: 092502CCVA31

Purge Volume: 5.0

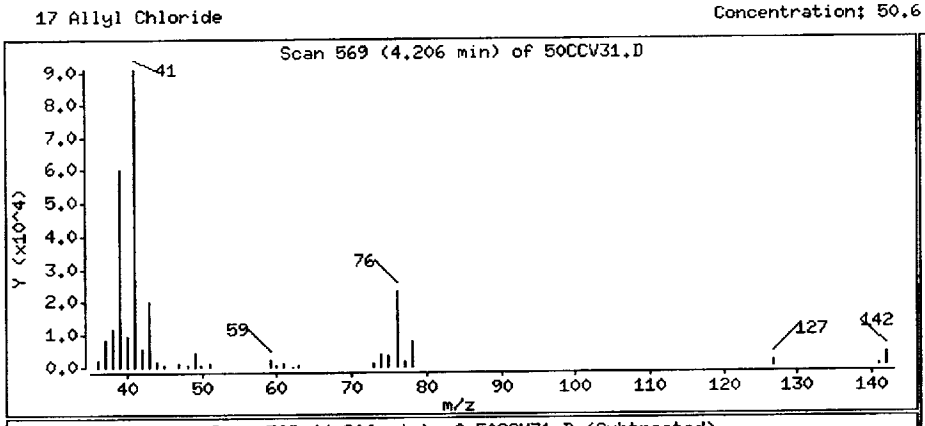
Operator:

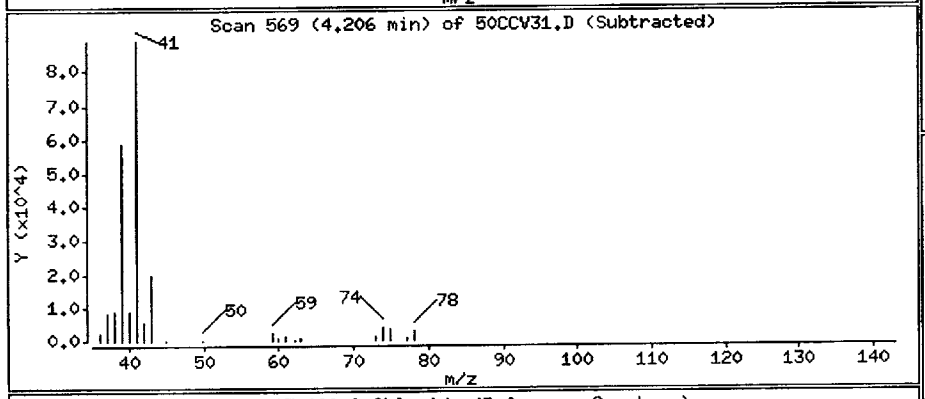
Column phase: DB-624

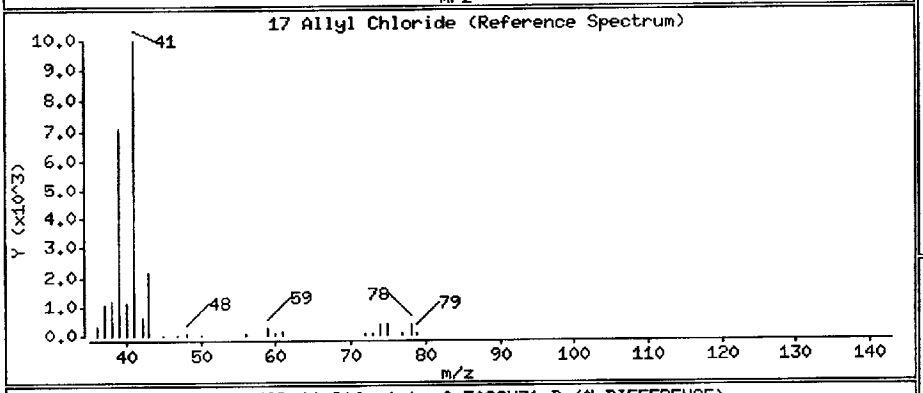
Column diameter: 0.18

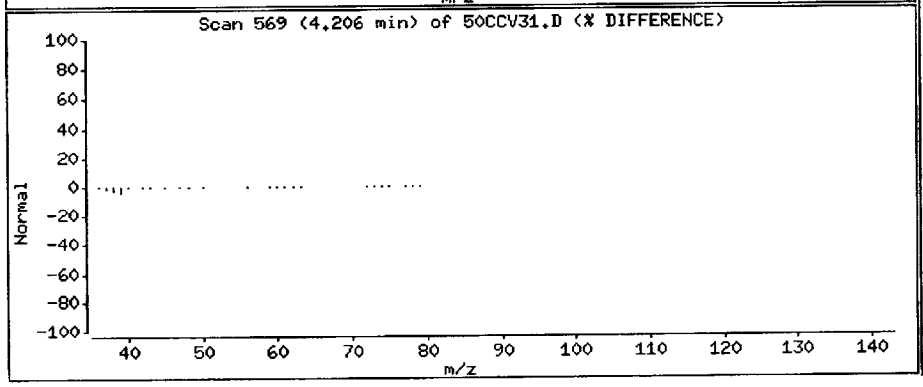
17 Allyl Chloride

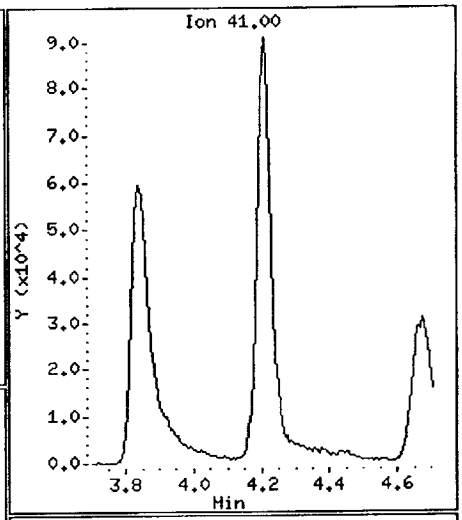
Concentration: 50.6 ug/l

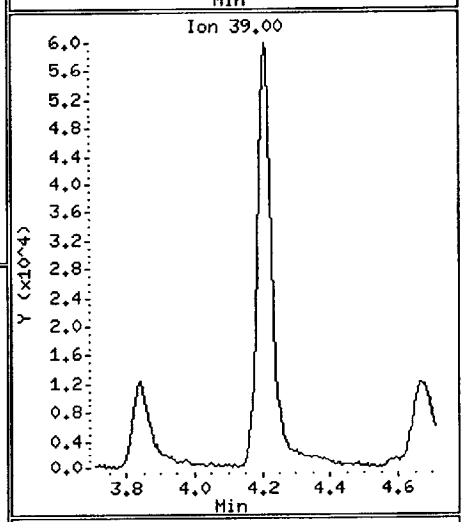


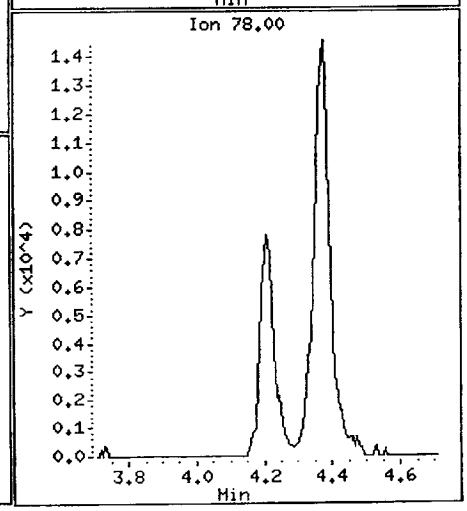












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Date : 25-SEP-2002 06:02

Client ID: 092502CCVA31

Instrument: vms03.i

Sample Info: 092502CCVA31

Purge Volume: 5.0

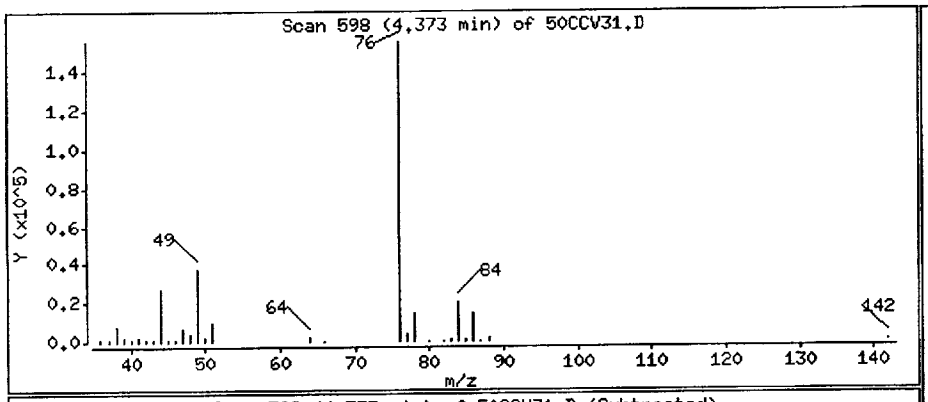
Operator:

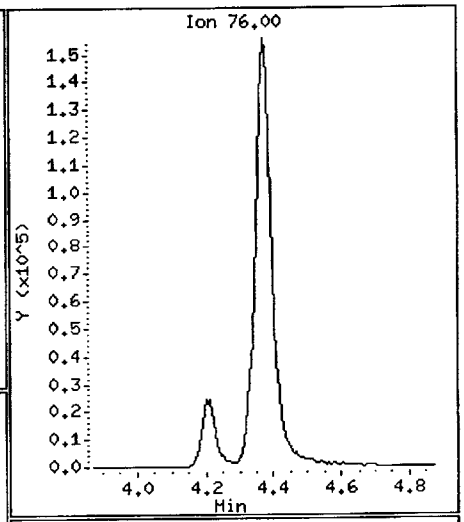
Column phase: DB-624

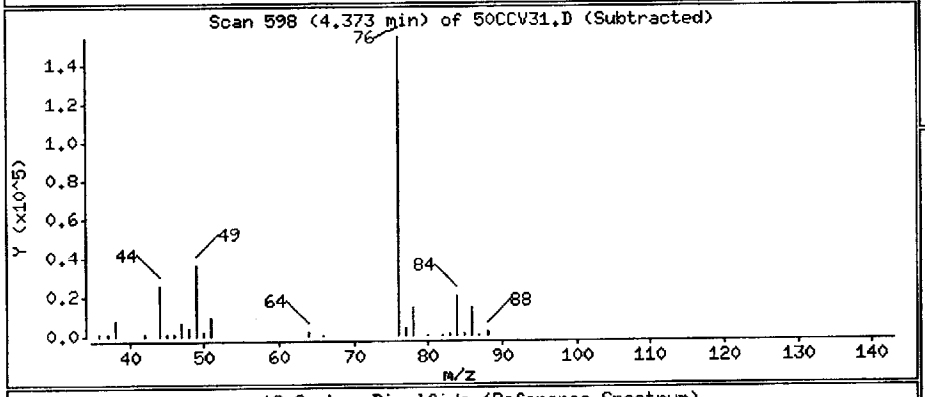
Column diameter: 0.18

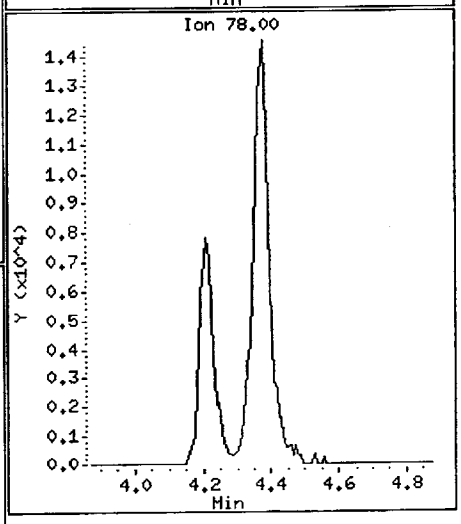
18 Carbon Disulfide

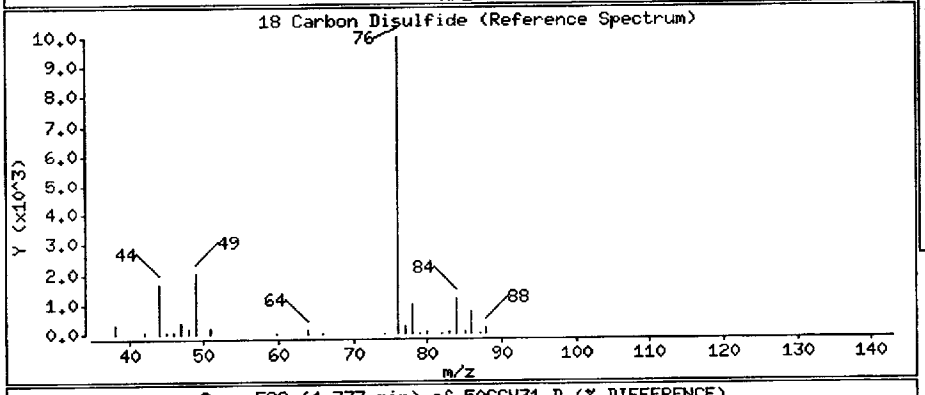
Concentration: 47.7 ug/l

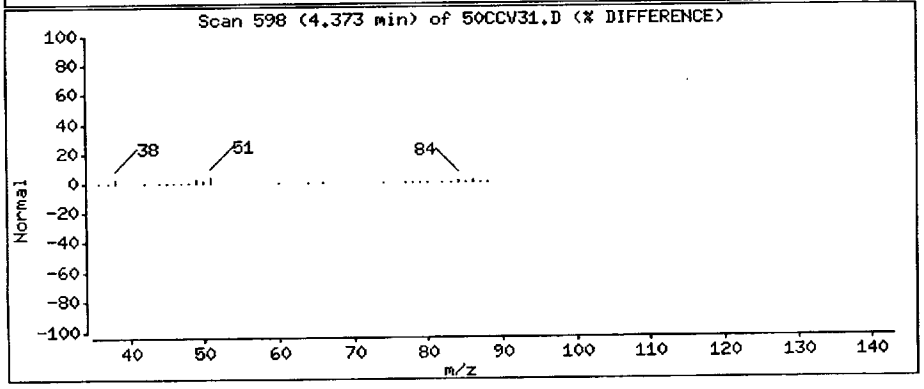












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Date : 25-SEP-2002 06:02

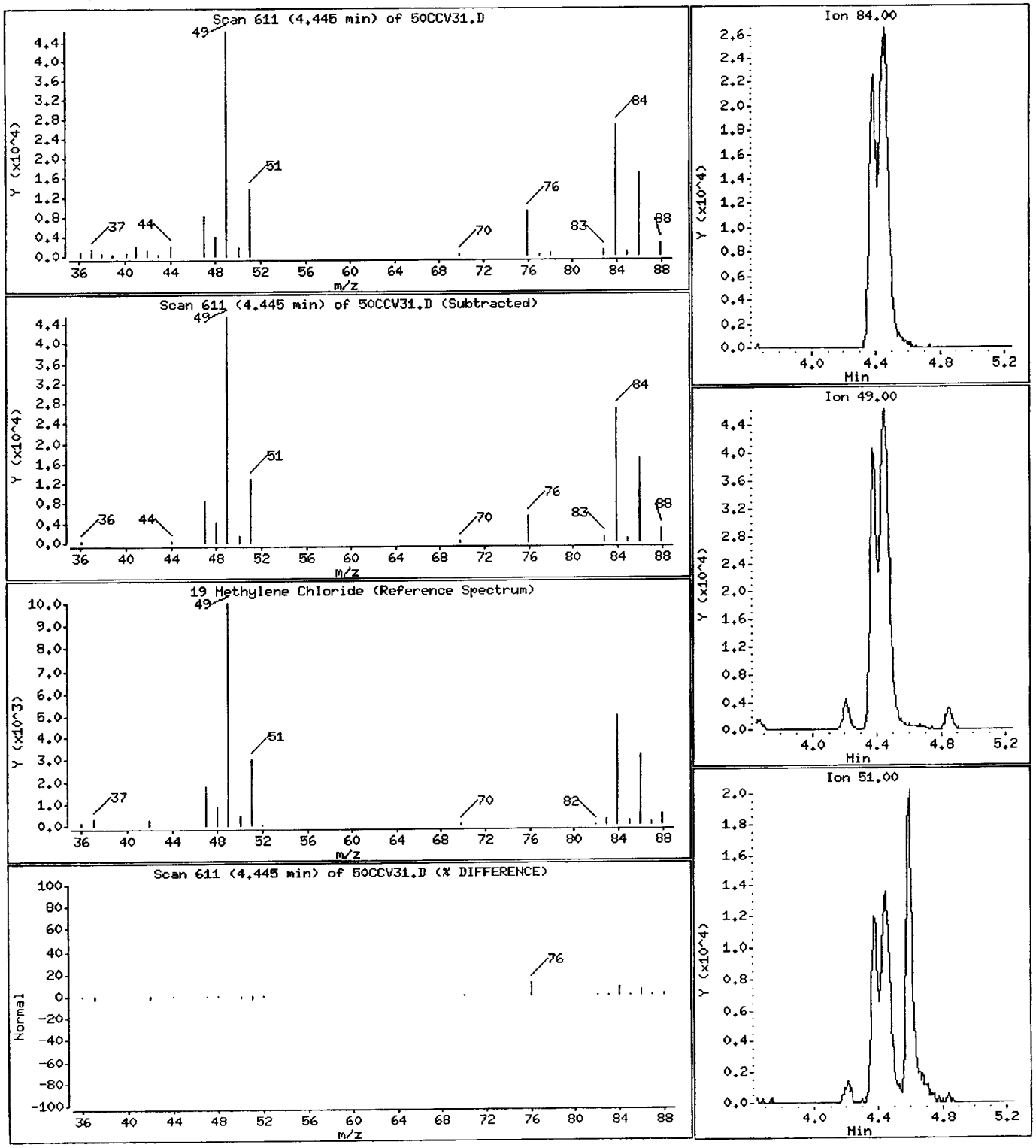
Client ID: 092502CCVA31 | Instrument: vms03.i

Sample Info: 092502CCVA31

Purge Volume: 5.0 | Operator:

Column phase: DB-624 | Column diameter: 0.18

19 Methylene Chloride | Concentration: 47.0 ug/l



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Date : 25-SEP-2002 06:02

Client ID: 092502CCVA31

Instrument: vms03.i

Sample Info: 092502CCVA31

Purge Volume: 5.0

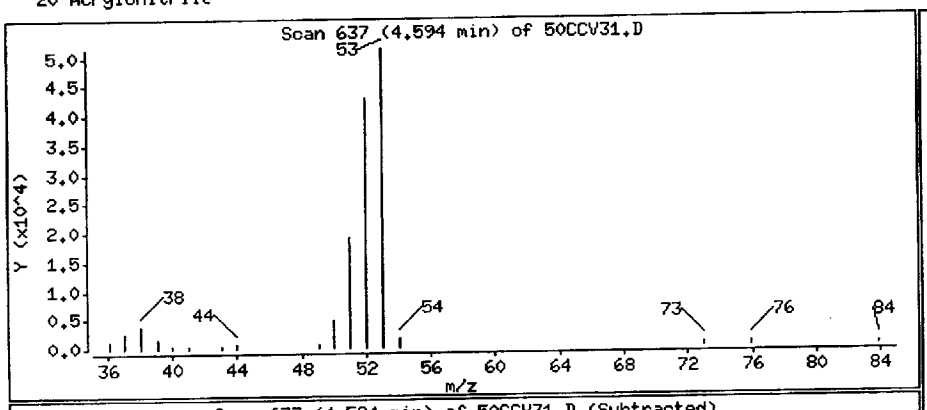
Operator:

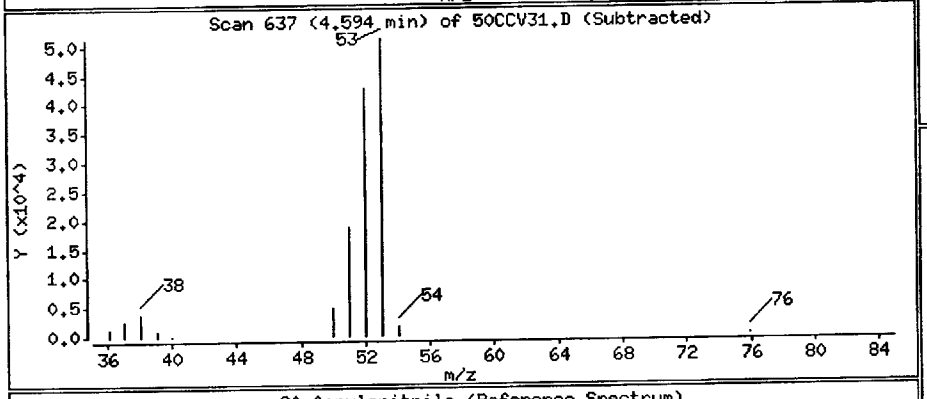
Column phase: DB-624

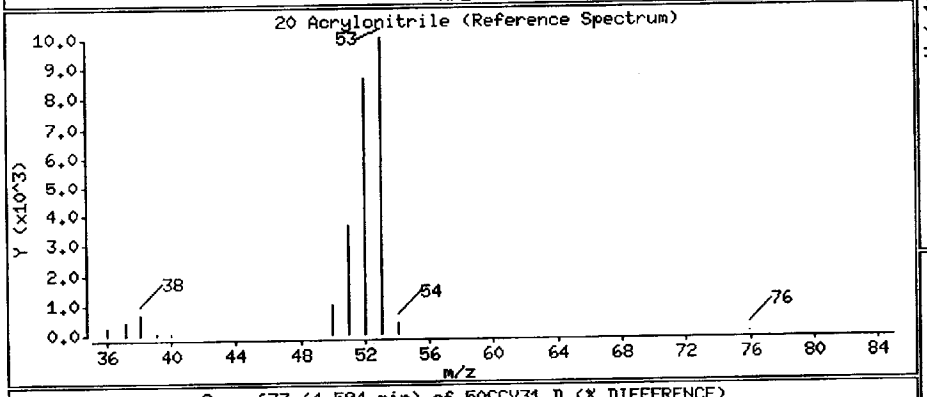
Column diameter: 0.18

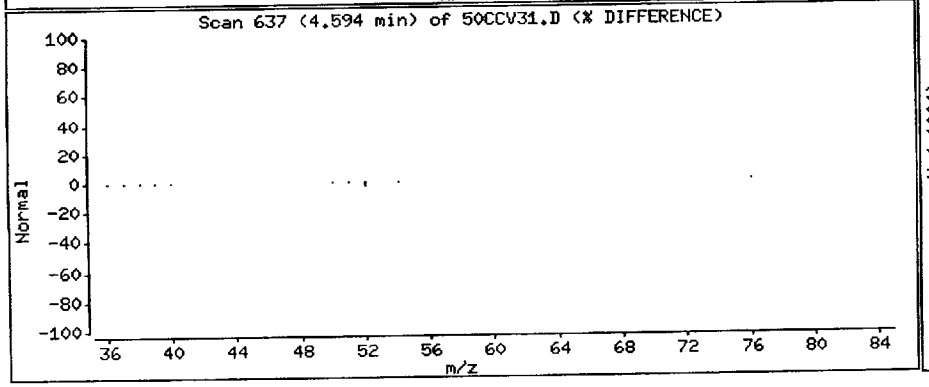
20 Acrylonitrile

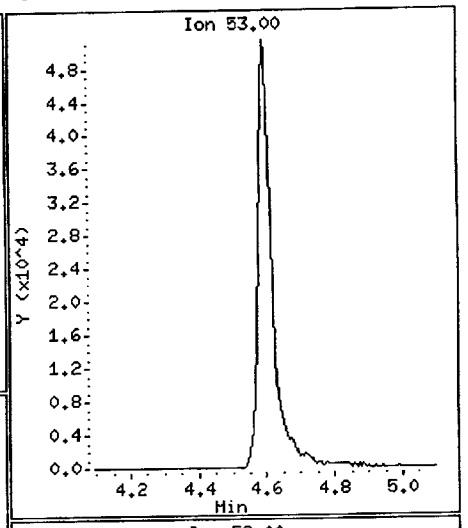
Concentration: 112 ug/l

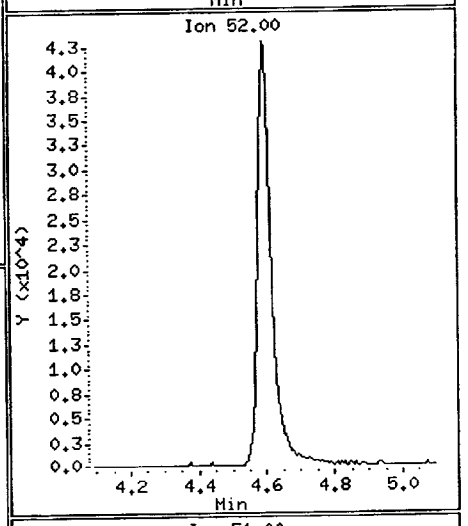


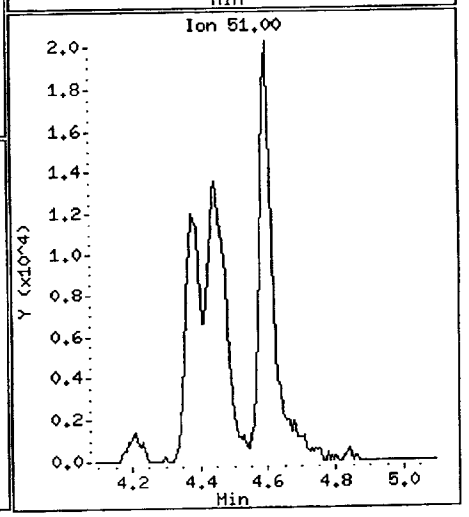












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\50CCV31.D

Date : 25-SEP-2002 06:02

Client ID: 092502CCVA31

Instrument: vms03.i

Sample Info: 092502CCVA31

Purge Volume: 5.0

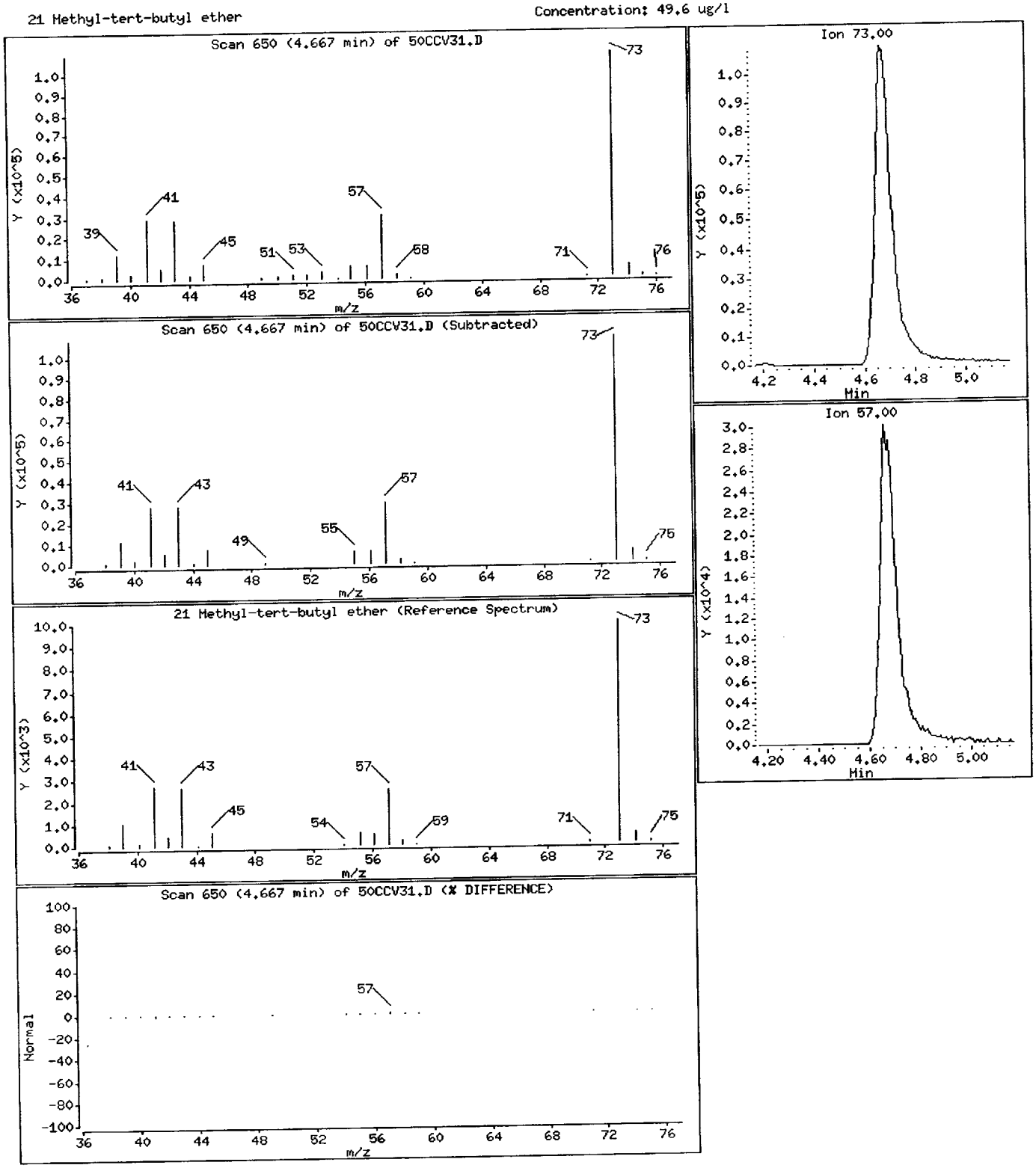
Operator:

Column phase: DB-624

Column diameter: 0.18

21 Methyl-tert-butyl ether

Concentration: 49.6 ug/l



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Date : 25-SEP-2002 06:02

Client ID: 092502CCVA31

Instrument: vms03.i

Sample Info: 092502CCVA31

Operator:

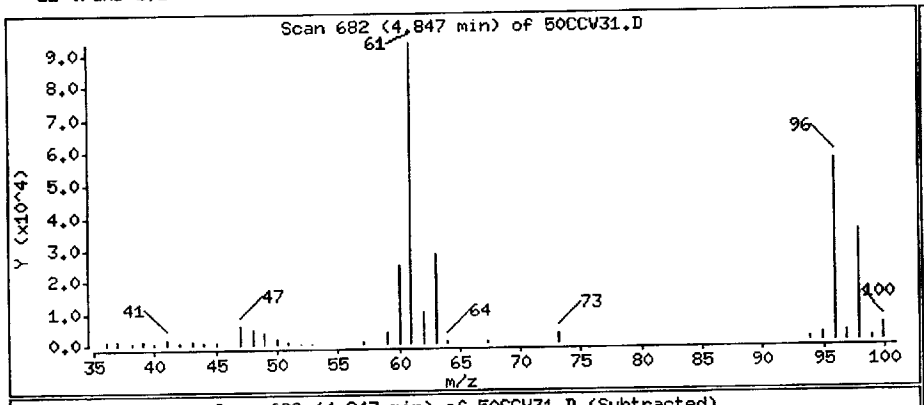
Purge Volume: 5.0

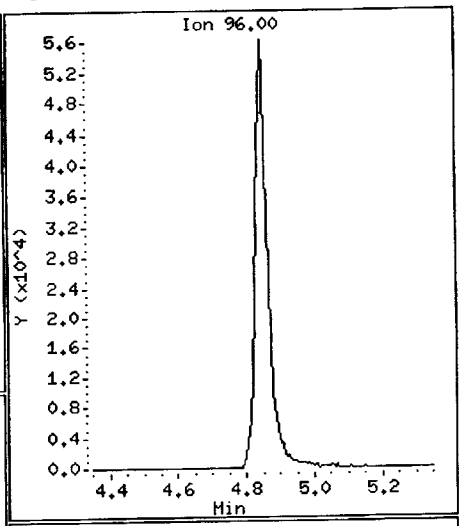
Column phase: DB-624

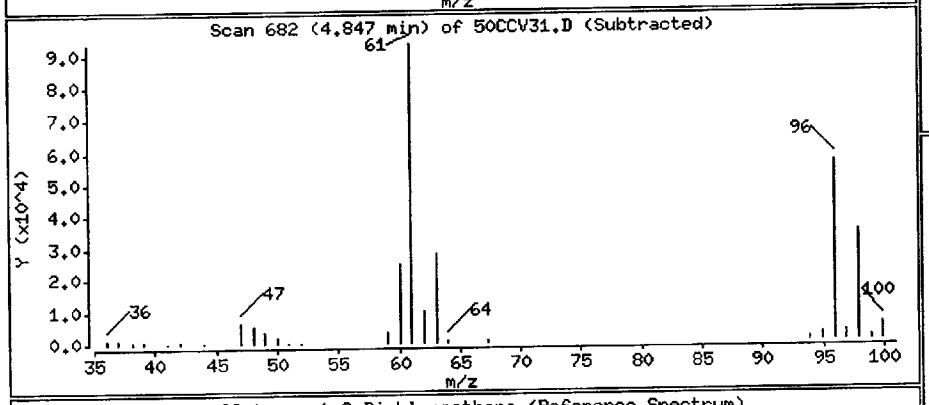
Column diameter: 0.18

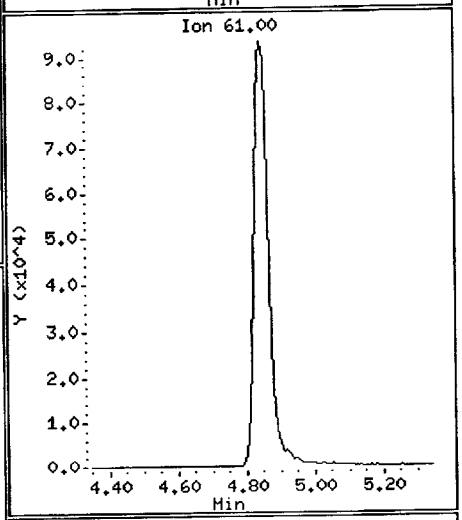
22 trans 1,2-Dichloroethene

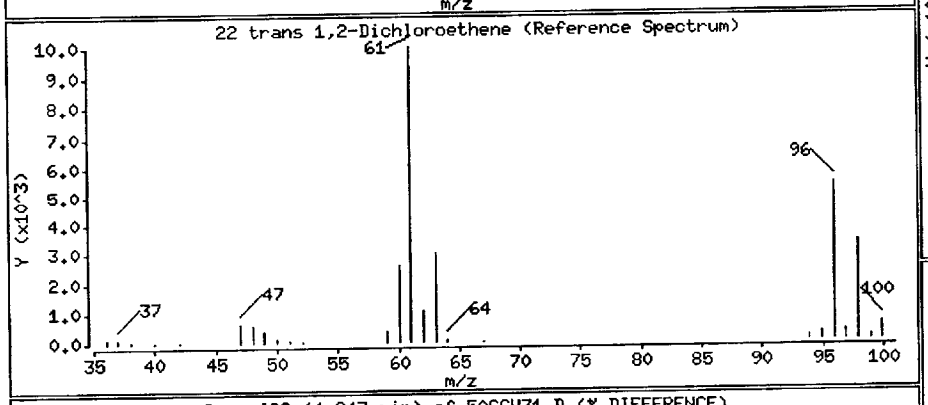
Concentration: 51.0 ug/l

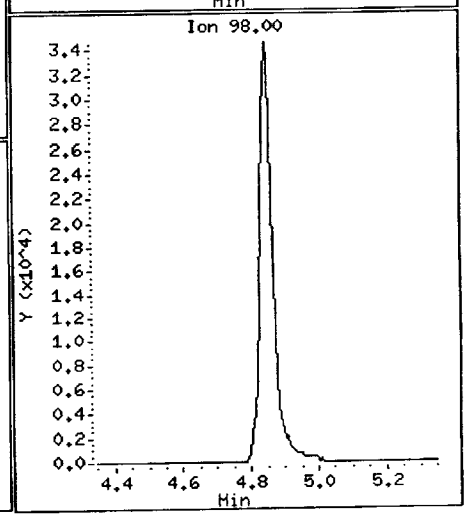


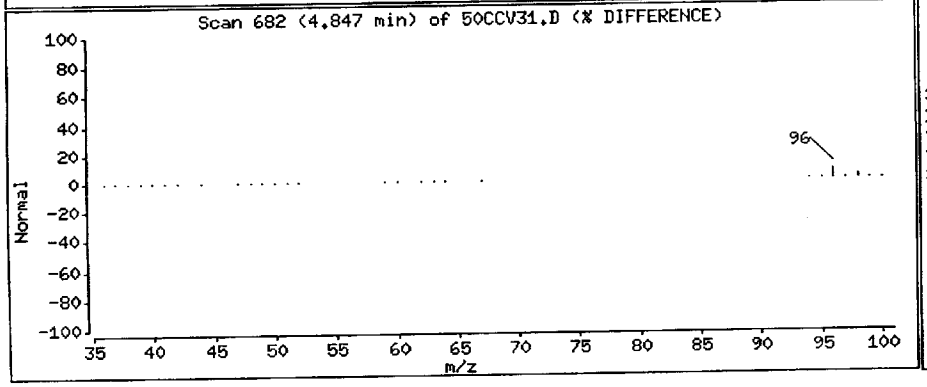












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Date : 25-SEP-2002 06:02

Client ID: 092502CCVA31

Instrument: vms03.i

Sample Info: 092502CCVA31

Operator:

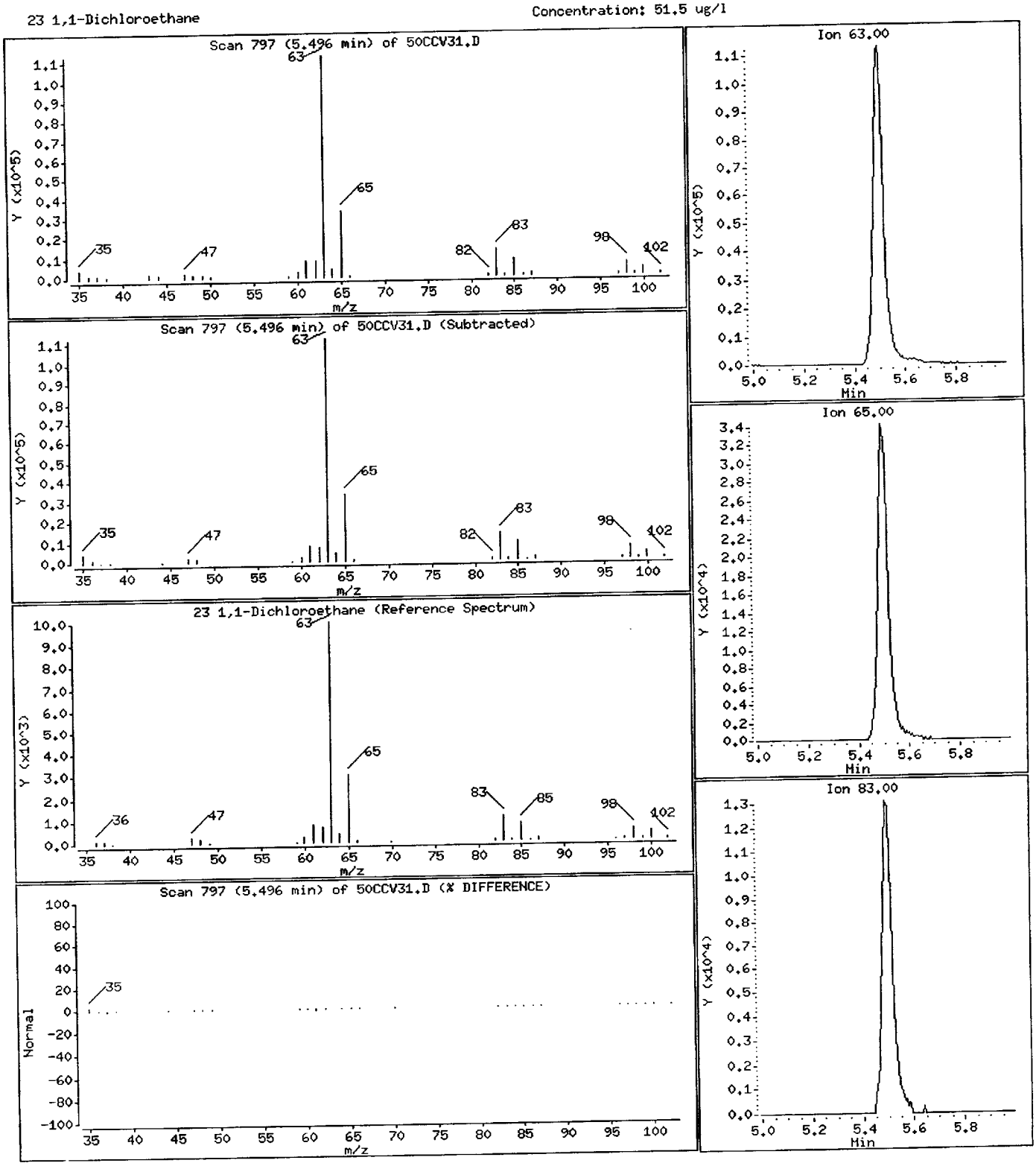
Purge Volume: 5.0

Column phase: DB-624

Column diameter: 0.18

23 1,1-Dichloroethane

Concentration: 51.5 ug/l



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Date : 25-SEP-2002 06:02

Client ID: 092502CCVA31

Instrument: vms03.i

Sample Info: 092502CCVA31

Purge Volume: 5.0

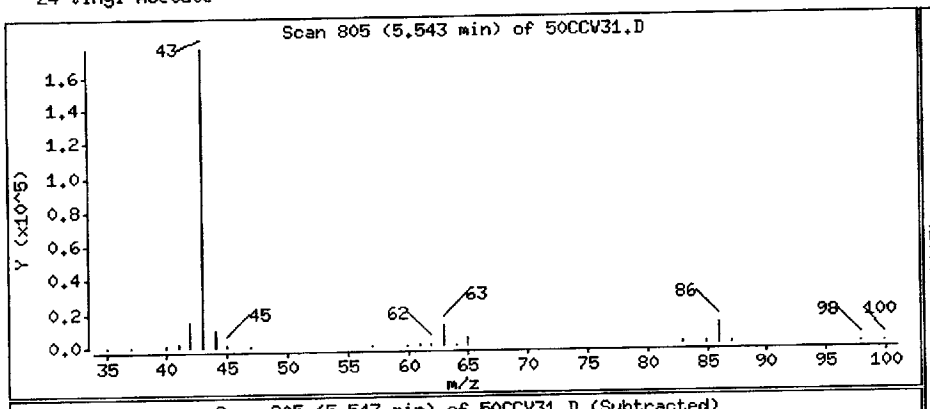
Operator:

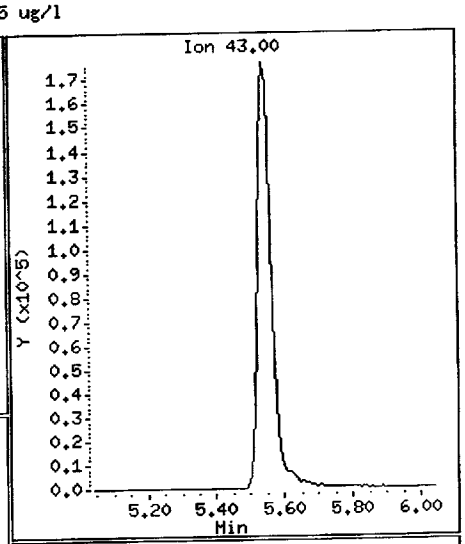
Column phase: DB-624

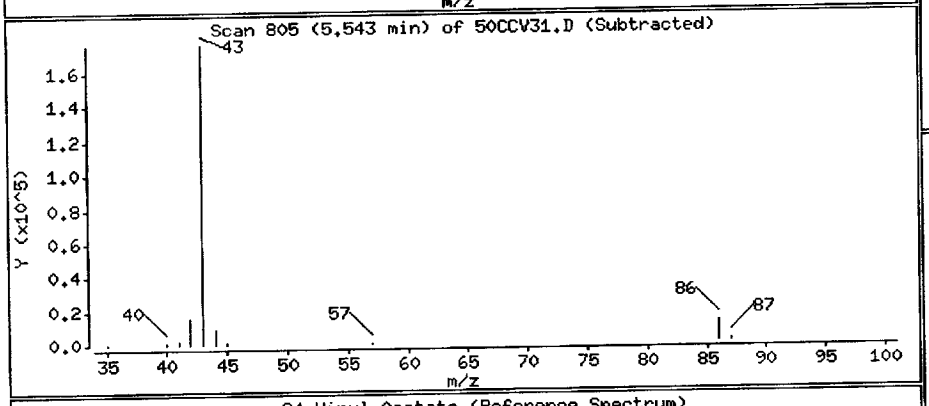
Column diameter: 0.18

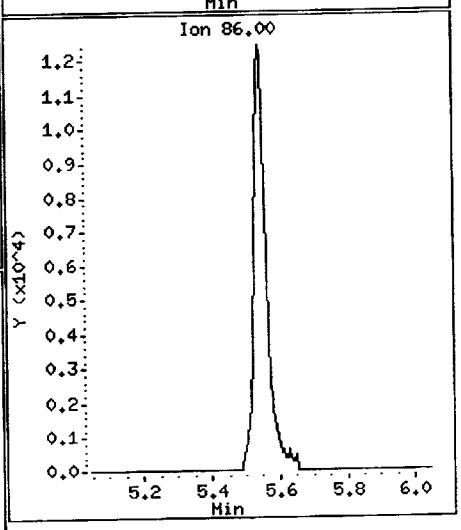
24 Vinyl Acetate

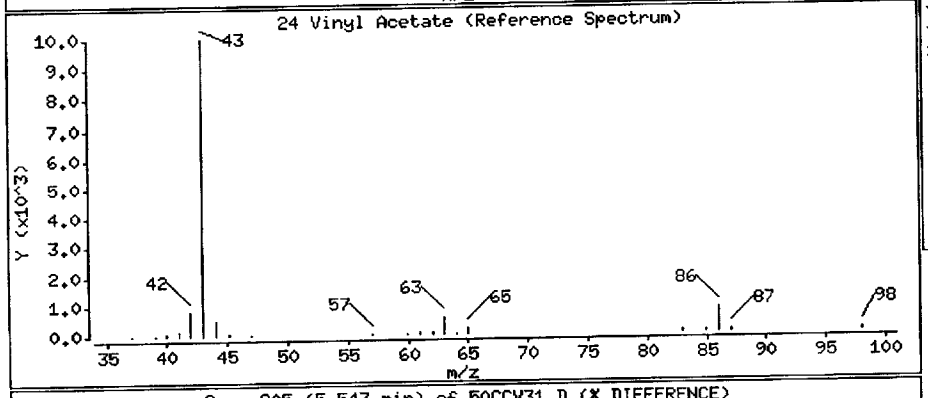
Concentration: 50.5 ug/l

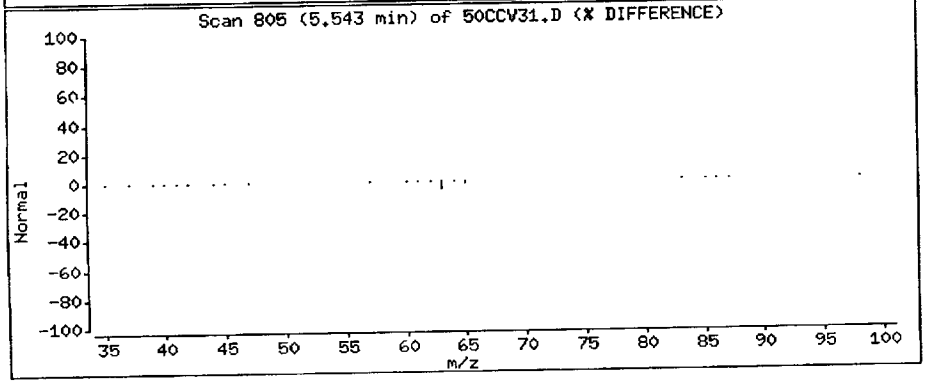












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Date : 25-SEP-2002 06:02

Client ID: 092502CCVA31

Instrument: vms03.i

Sample Info: 092502CCVA31

Purge Volume: 5.0

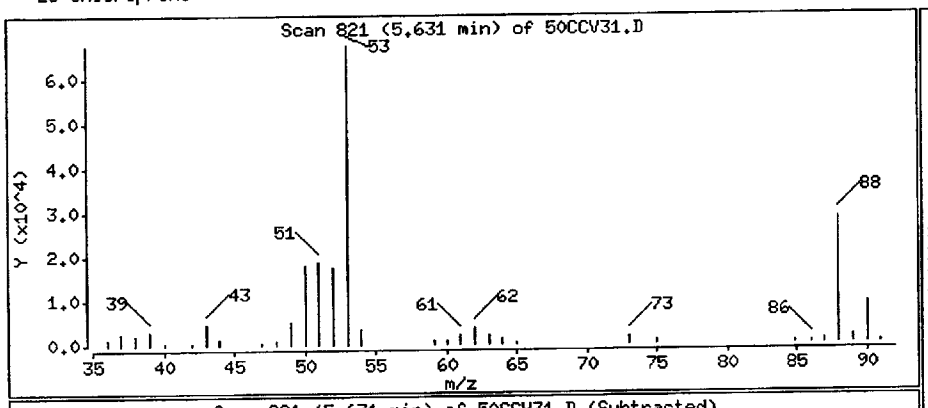
Operator:

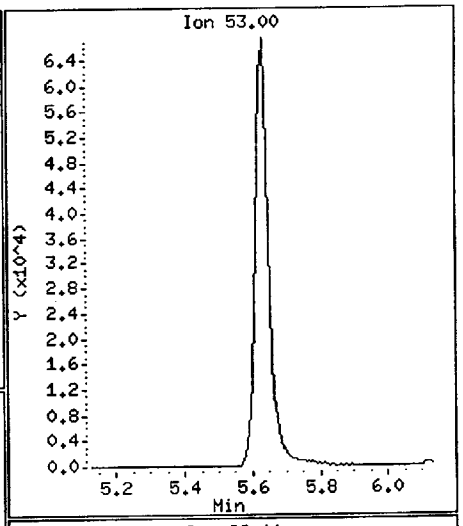
Column phase: DB-624

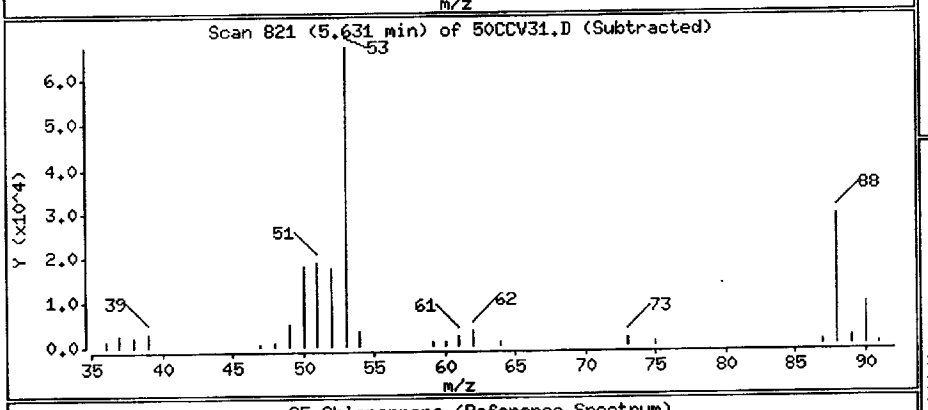
Column diameter: 0.18

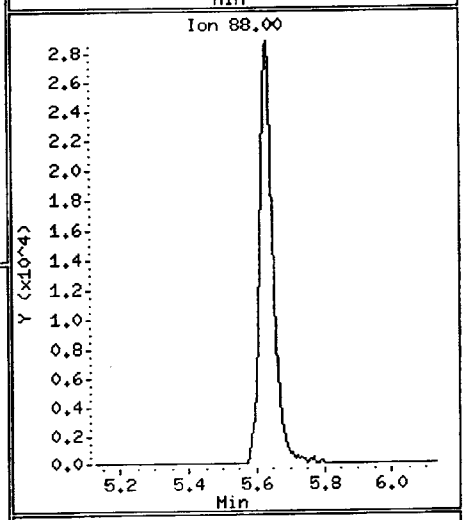
25 Chloroprene

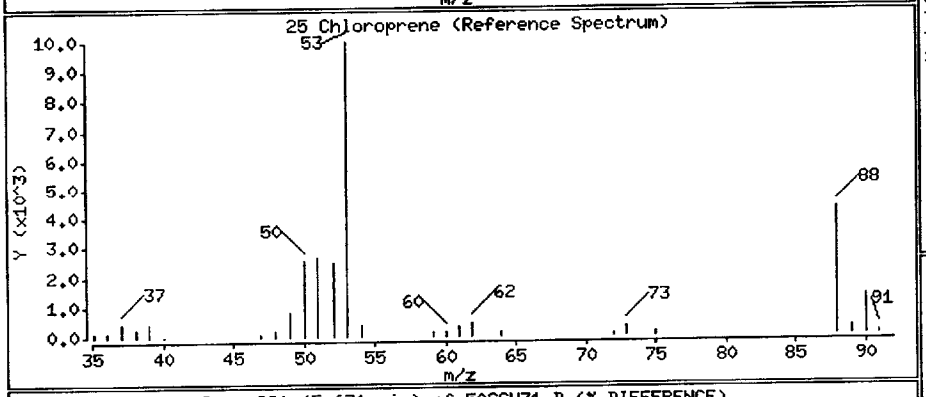
Concentration: 52.8 ug/l

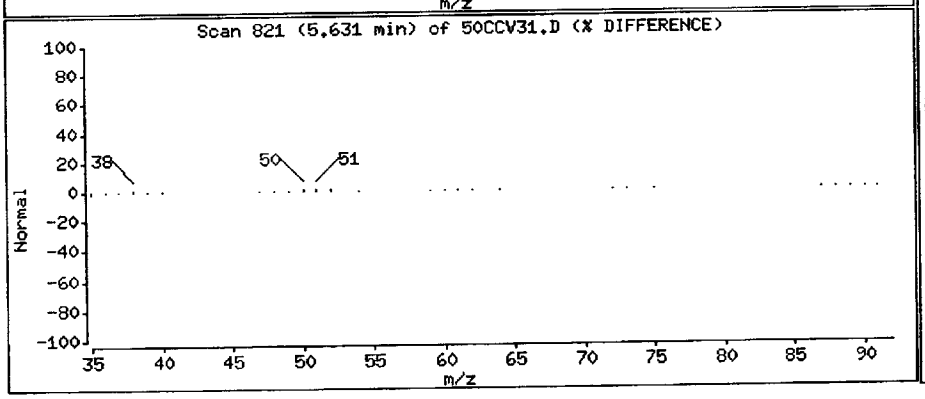


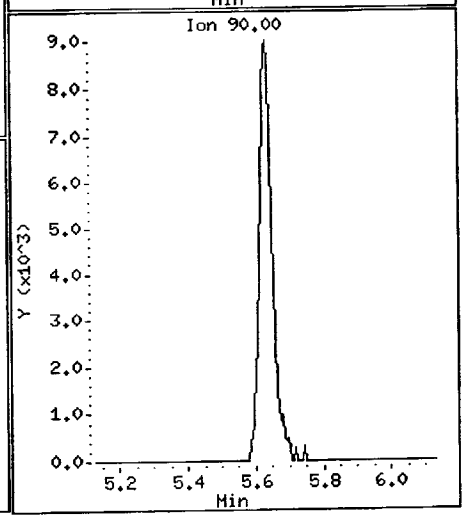












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\50CCV31.D

Date : 25-SEP-2002 06:02

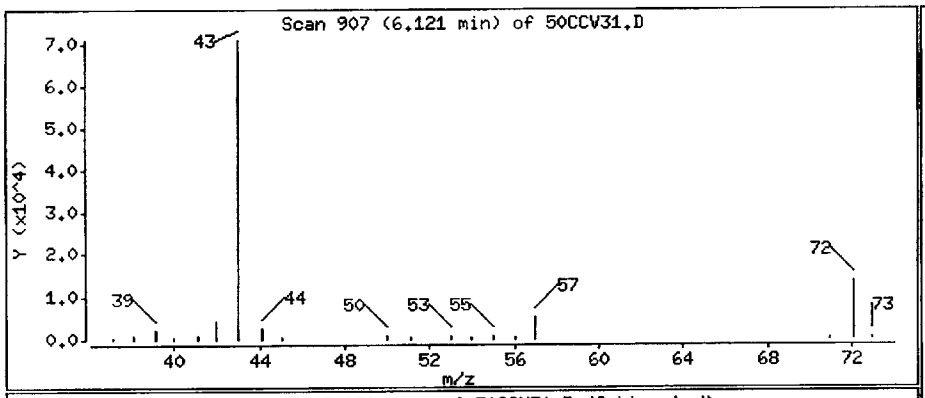
Client ID: 092502CCVA31 | Instrument: vms03.i

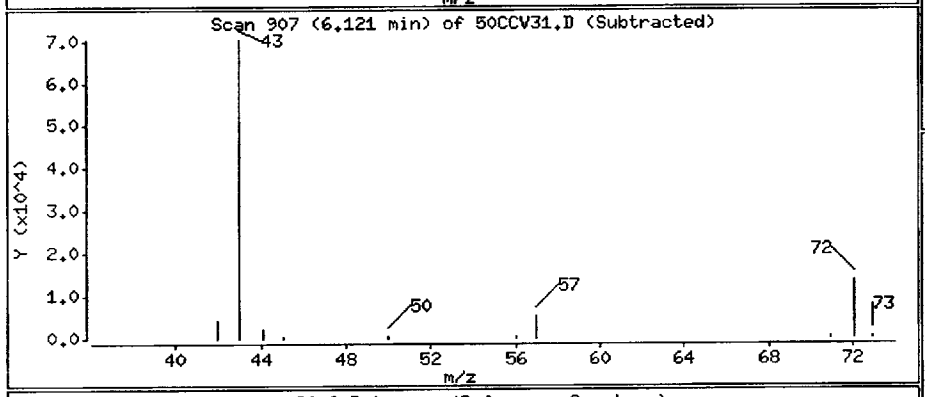
Sample Info: 092502CCVA31

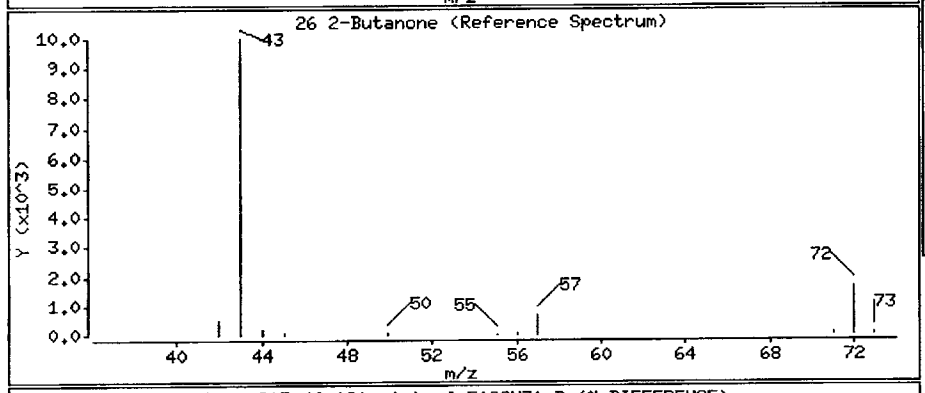
Purge Volume: 5.0 | Operator:

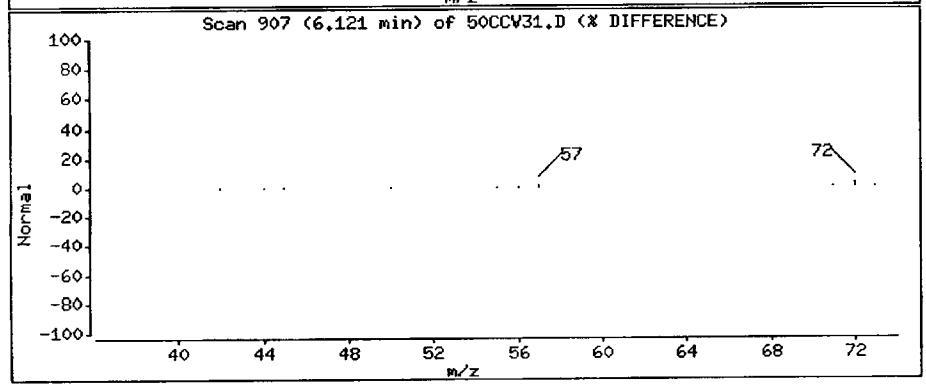
Column phase: DB-624 | Column diameter: 0.18

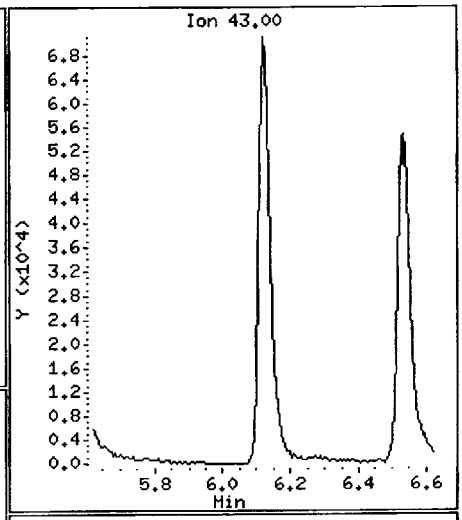
26 2-Butanone | Concentration: 102 ug/l

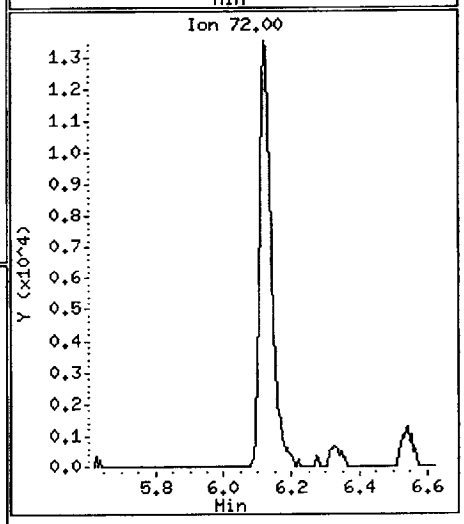












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Date : 25-SEP-2002 06:02

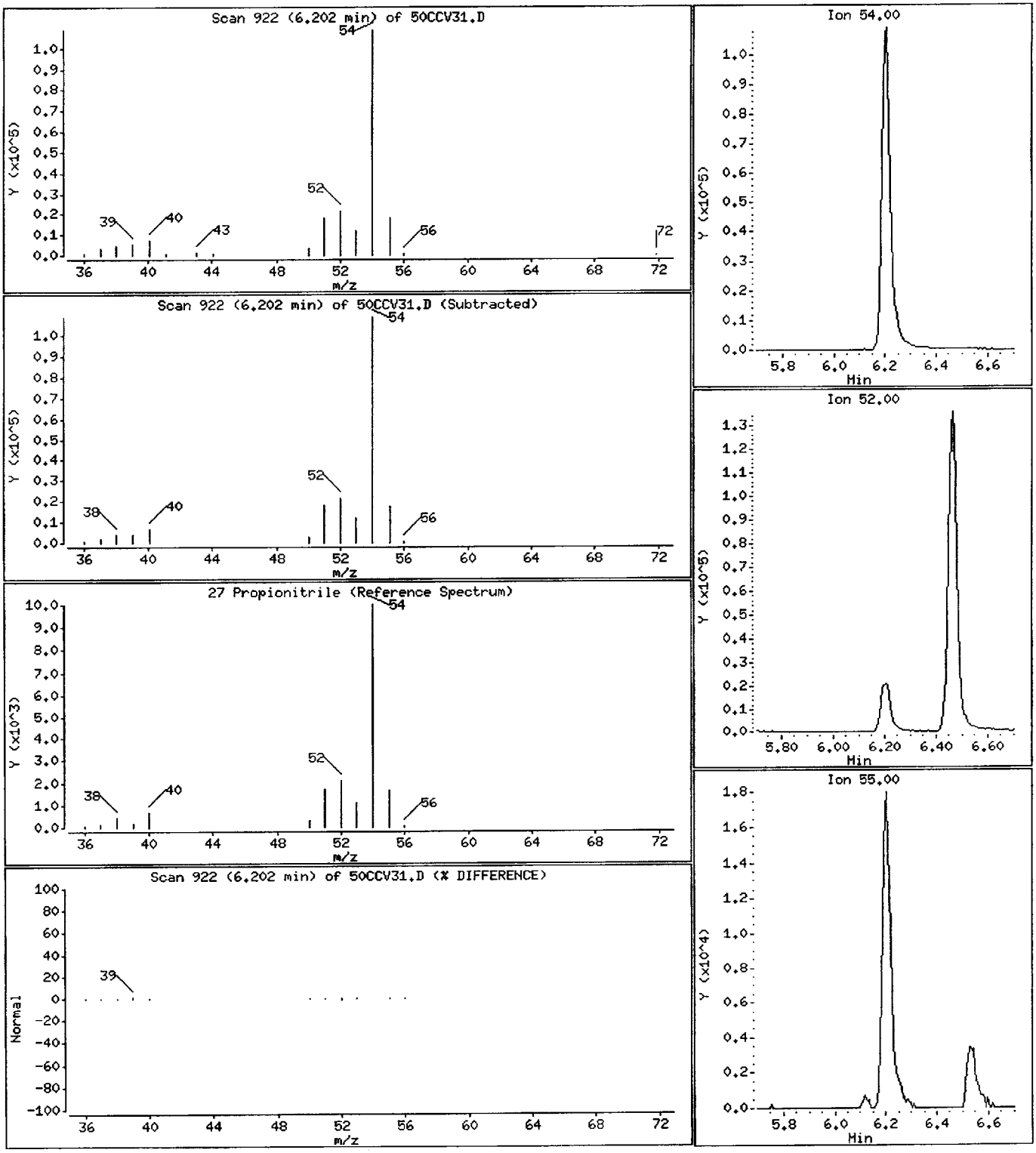
Client ID: 092502CCVA31 | Instrument: vms03.i

Sample Info: 092502CCVA31

Purge Volume: 5.0 | Operator:

Column phase: DB-624 | Column diameter: 0.18

27 Propionitrile | Concentration: 516 ug/l



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Date : 25-SEP-2002 06:02

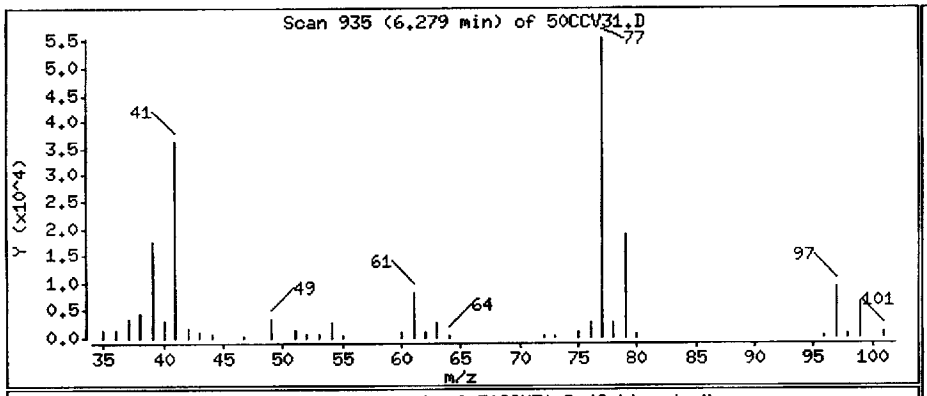
Client ID: 092502CCVA31 | Instrument: vms03.i

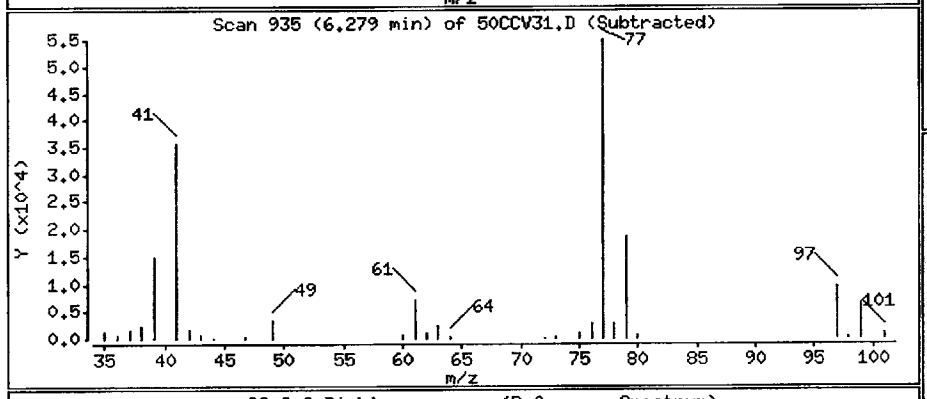
Sample Info: 092502CCVA31

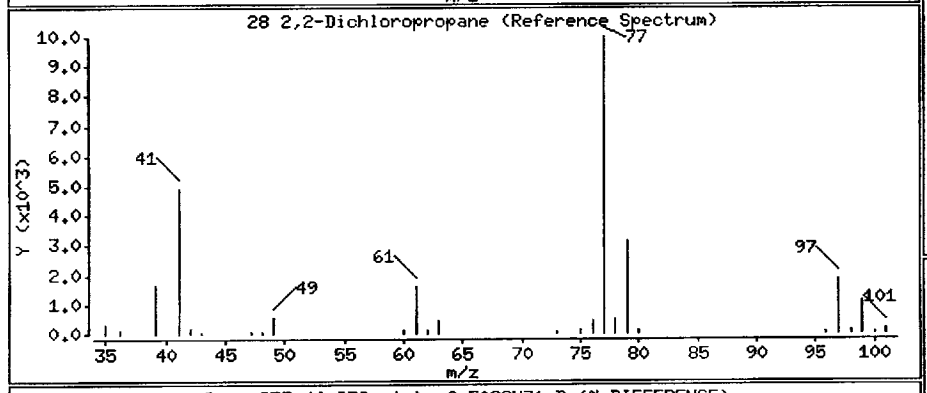
Purge Volume: 5.0 | Operator:

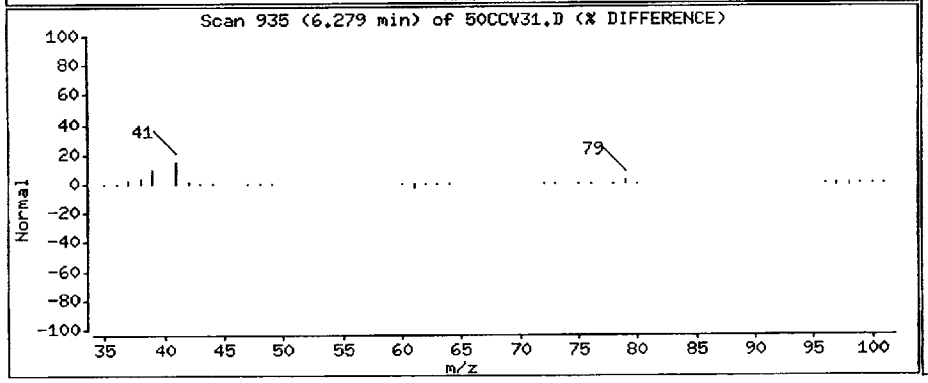
Column phase: DB-624 | Column diameter: 0.18

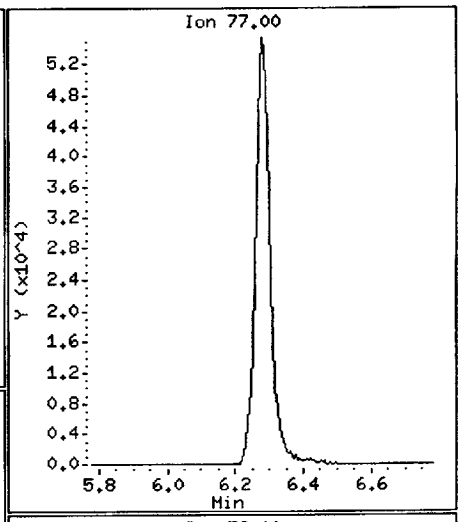
28 2,2-Dichloropropane | Concentration: 51.5 ug/l

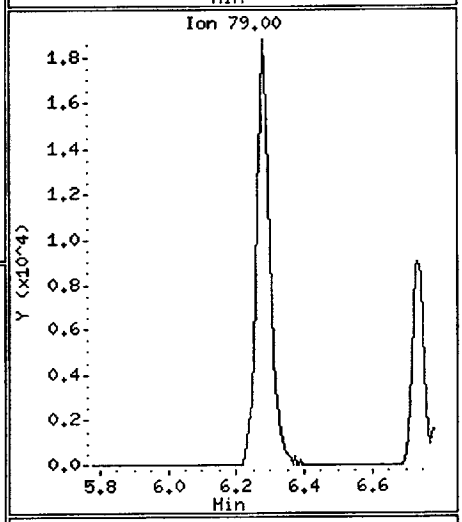


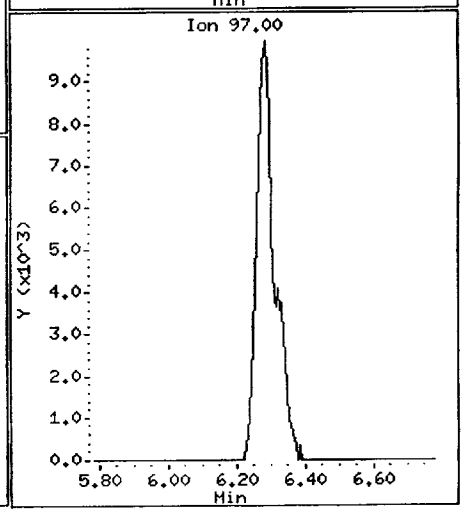












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Date : 25-SEP-2002 06:02

Client ID: 092502CCVA31

Instrument: vms03.i

Sample Info: 092502CCVA31

Purge Volume: 5.0

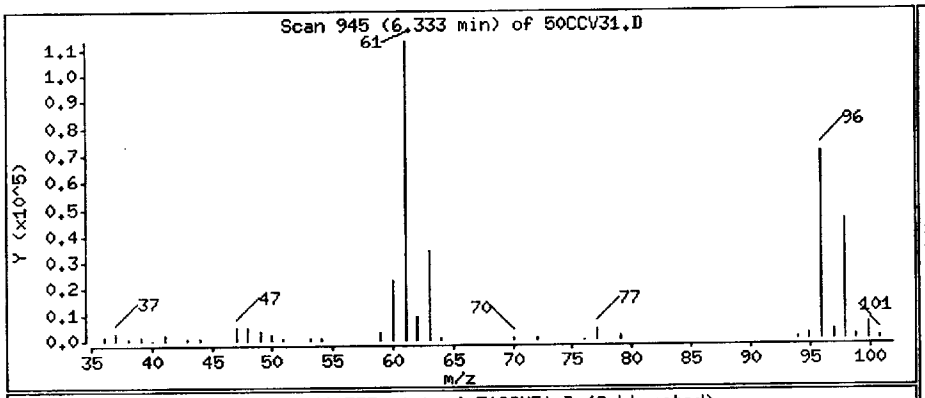
Operator:

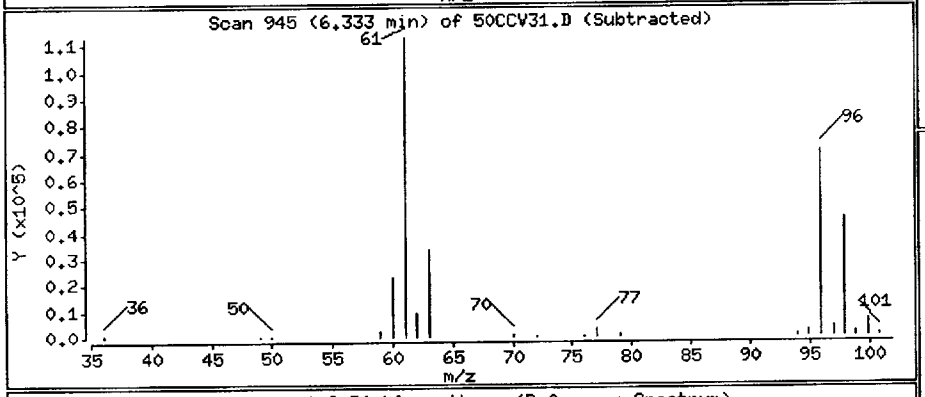
Column phase: DB-624

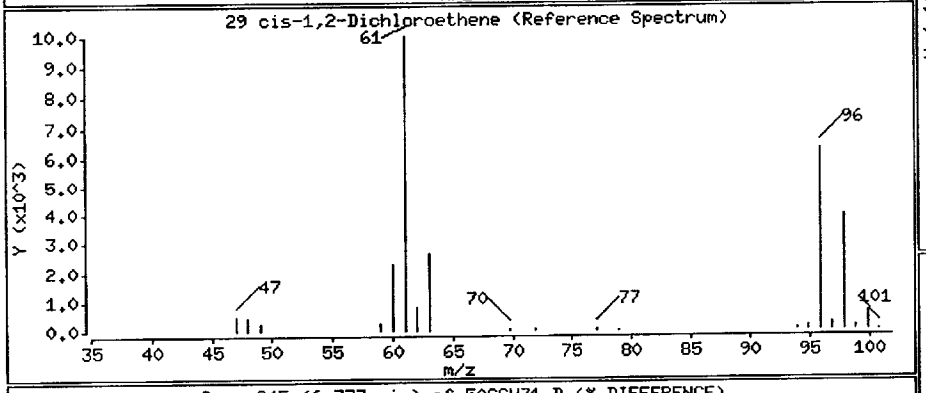
Column diameter: 0.18

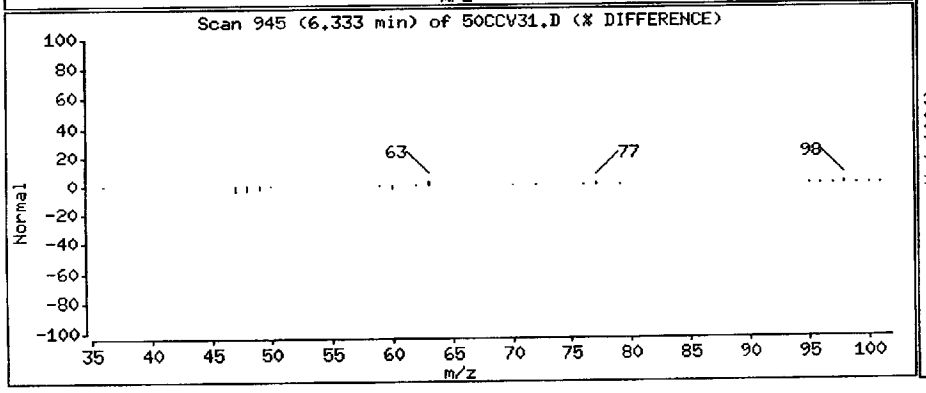
29 cis-1,2-Dichloroethene

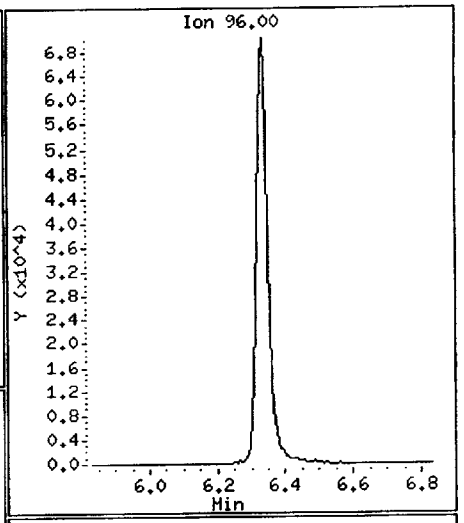
Concentration: 52.8 ug/l

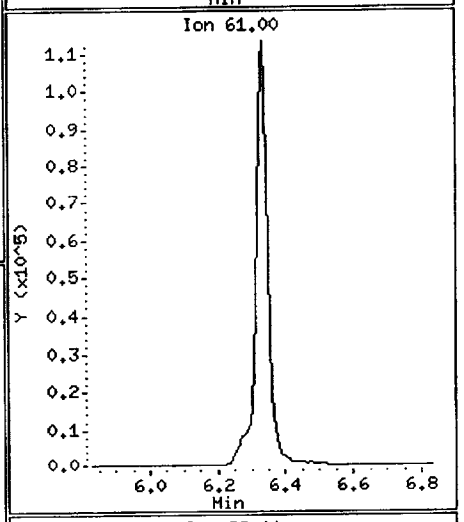


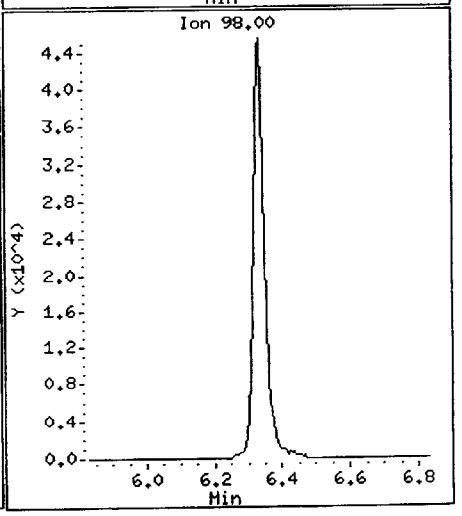












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\50CCV31.D

Date : 25-SEP-2002 06:02

Client ID: 092502CCVA31

Instrument: vms03.i

Sample Info: 092502CCVA31

Purge Volume: 5.0

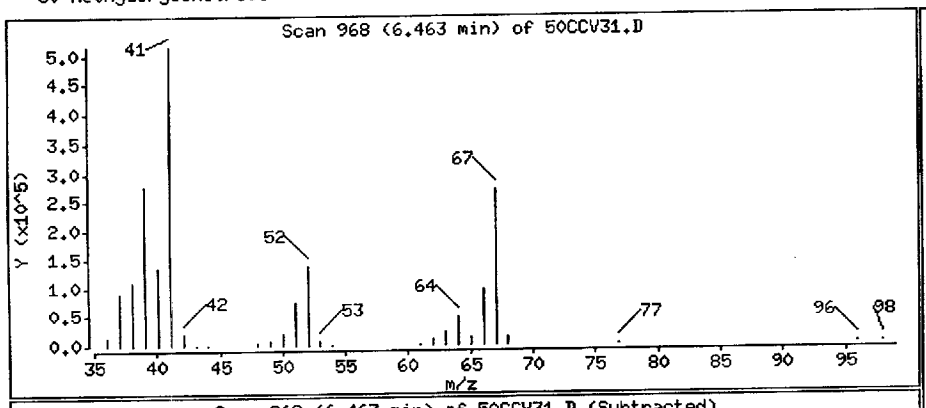
Operator:

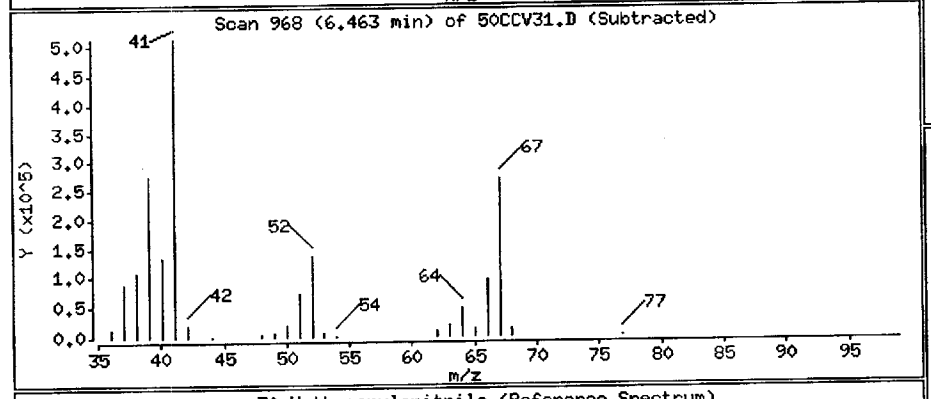
Column phase: DB-624

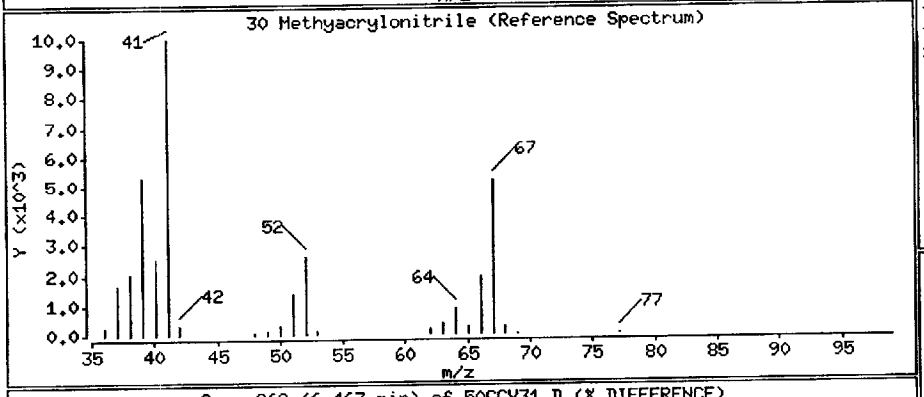
Column diameter: 0.18

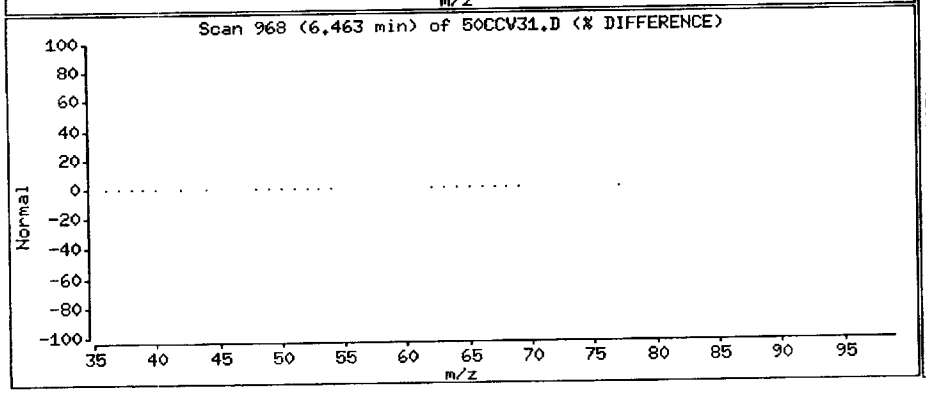
30 Methyacrylonitrile

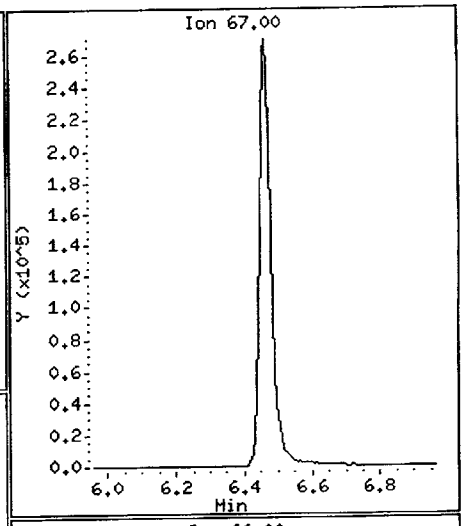
Concentration: 524 ug/l

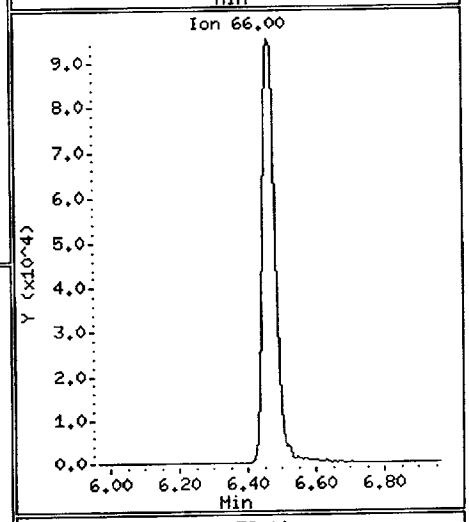


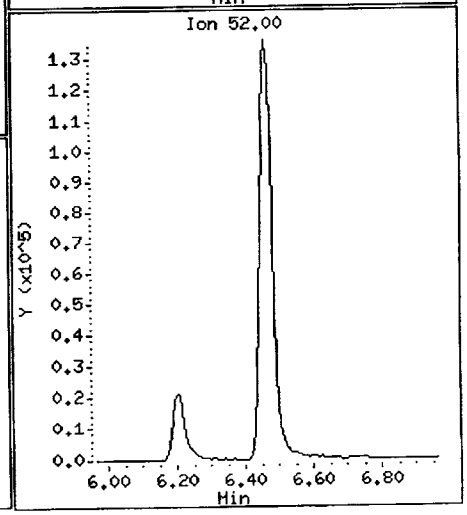












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\50CCV31.D

Date : 25-SEP-2002 06:02

Client ID: 092502CCVA31

Instrument: vms03.i

Sample Info: 092502CCVA31

Purge Volume: 5.0

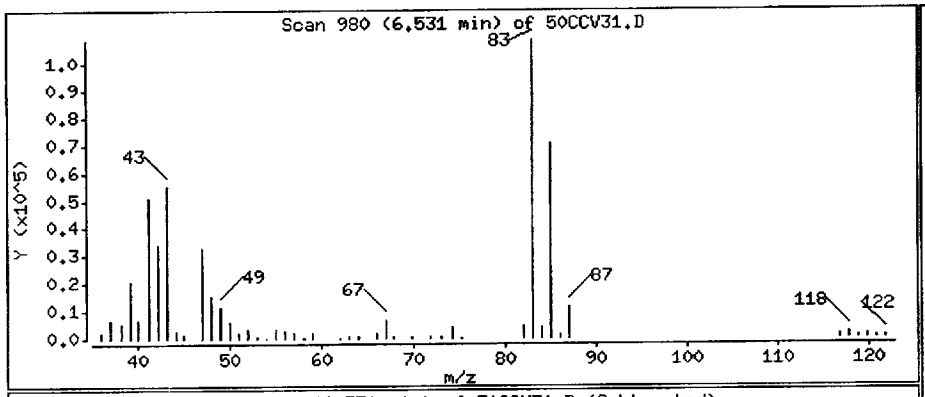
Operator:

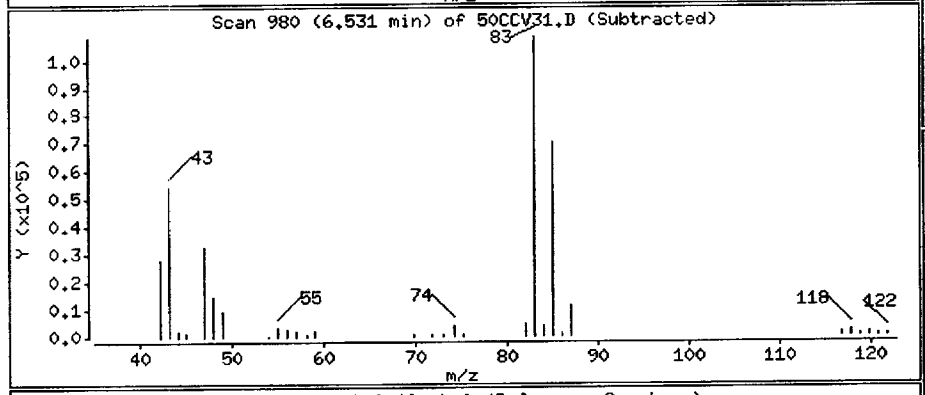
Column phase: DB-624

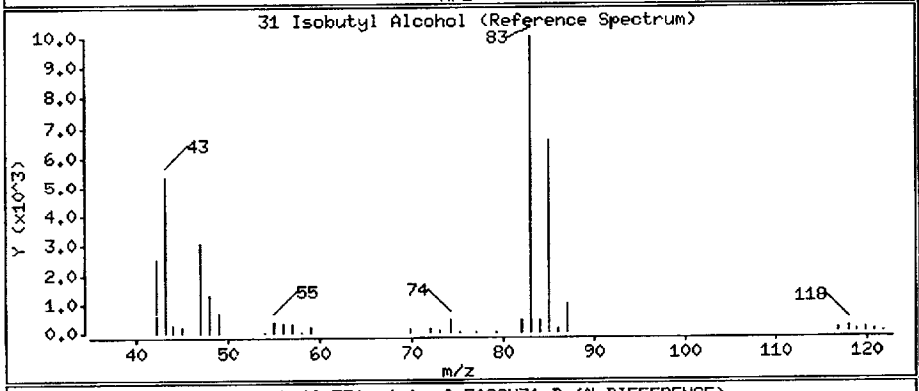
Column diameter: 0.18

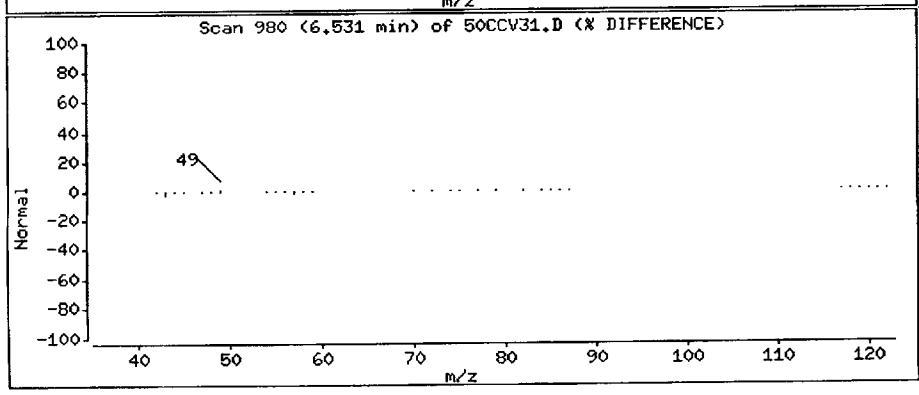
31 Isobutyl Alcohol

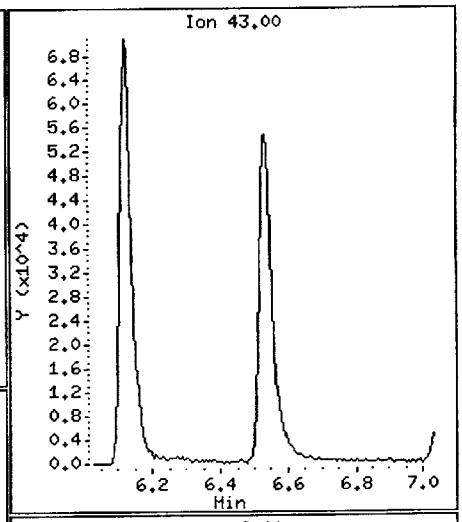
Concentration: 984 ug/l

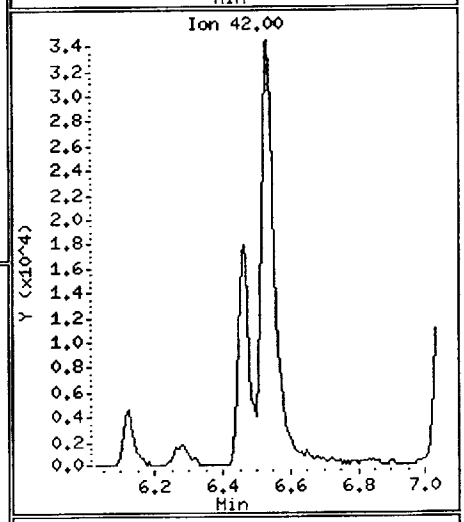


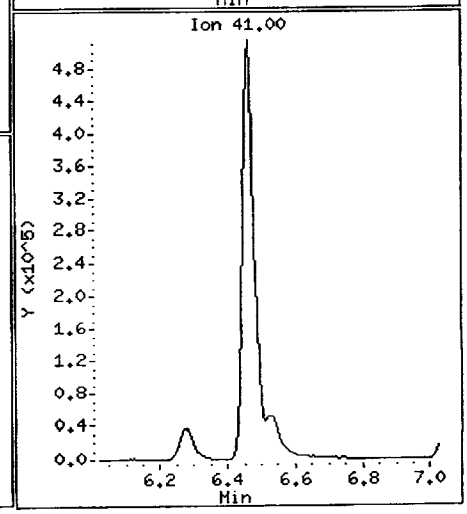












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\50CCV31.D

Date : 25-SEP-2002 06:02

Client ID: 092502CCVA31

Instrument: vms03.i

Sample Info: 092502CCVA31

Purge Volume: 5.0

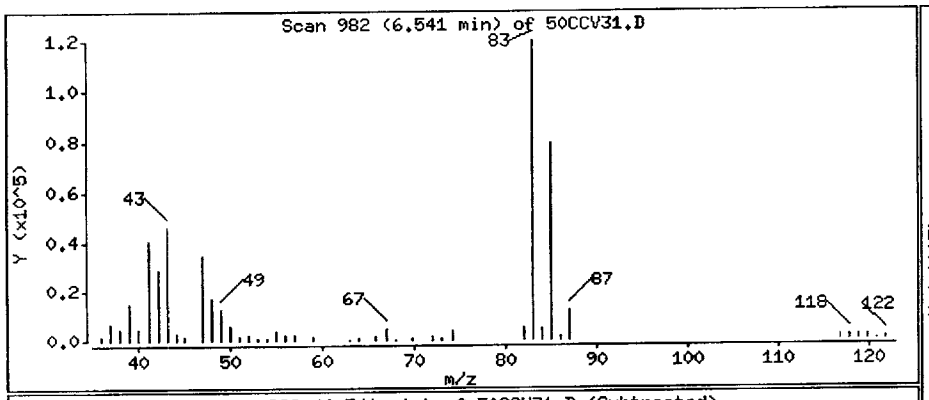
Operator:

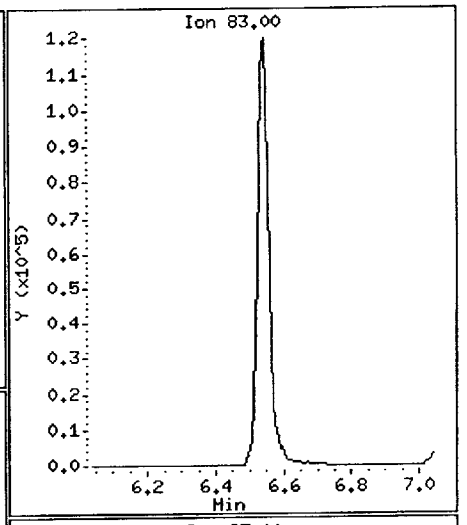
Column phase: DB-624

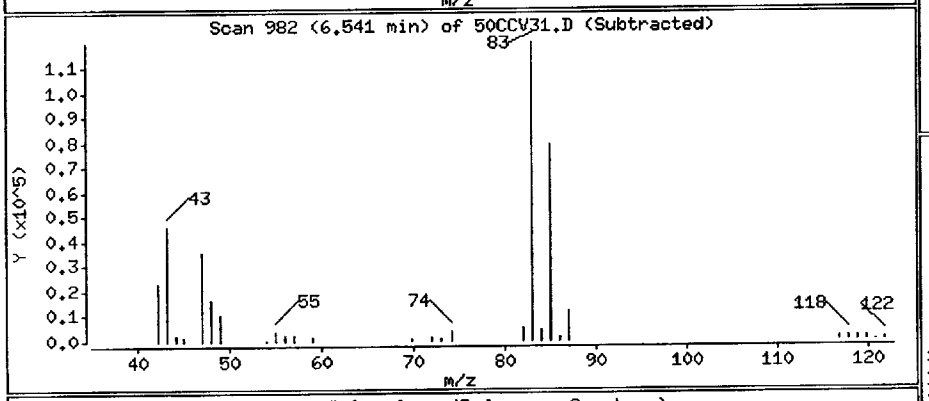
Column diameter: 0.18

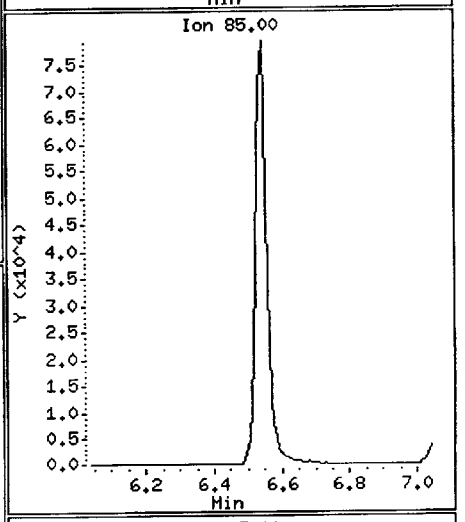
32 Chloroform

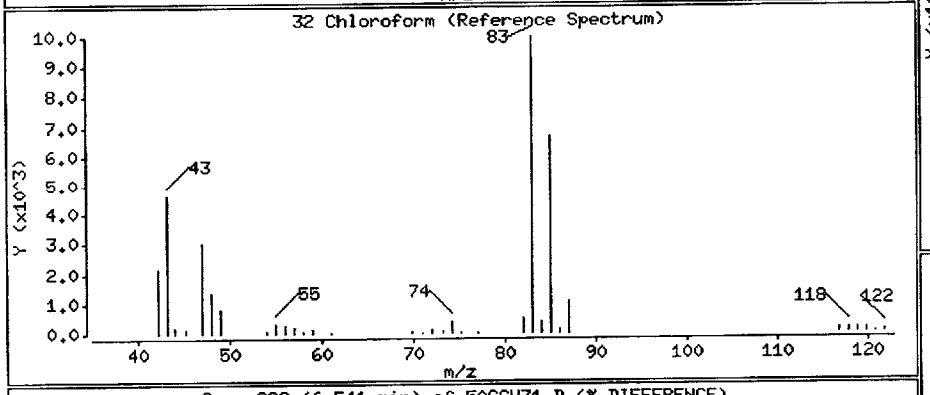
Concentration: 50.2 ug/l

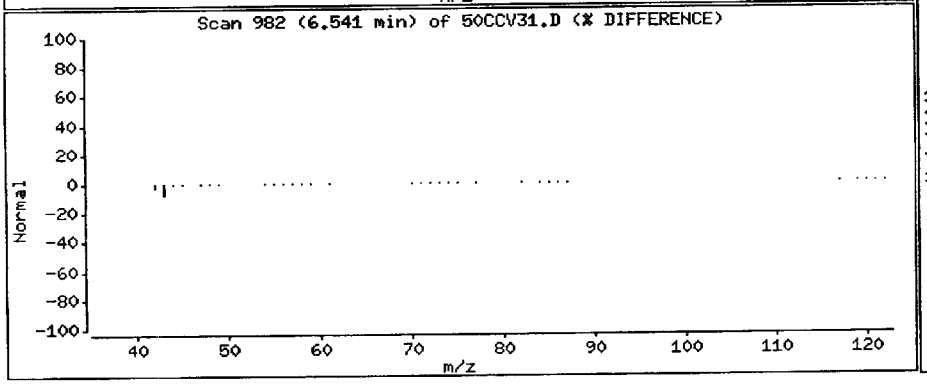


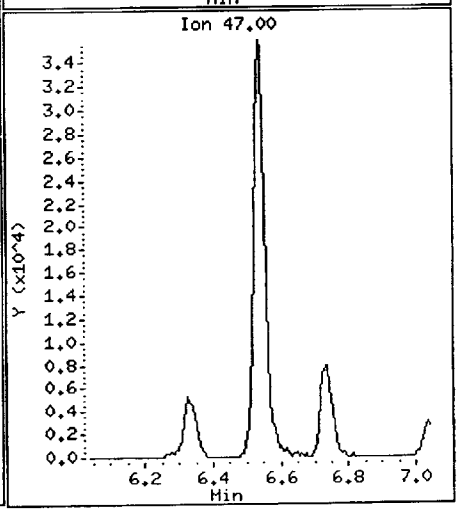












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\50CCV31.D

Date : 25-SEP-2002 06:02

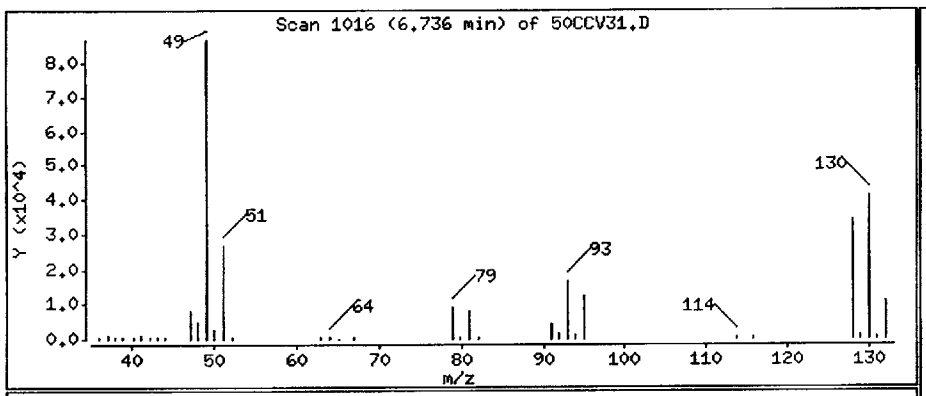
Client ID: 092502CCVA31 | Instrument: vms03.i

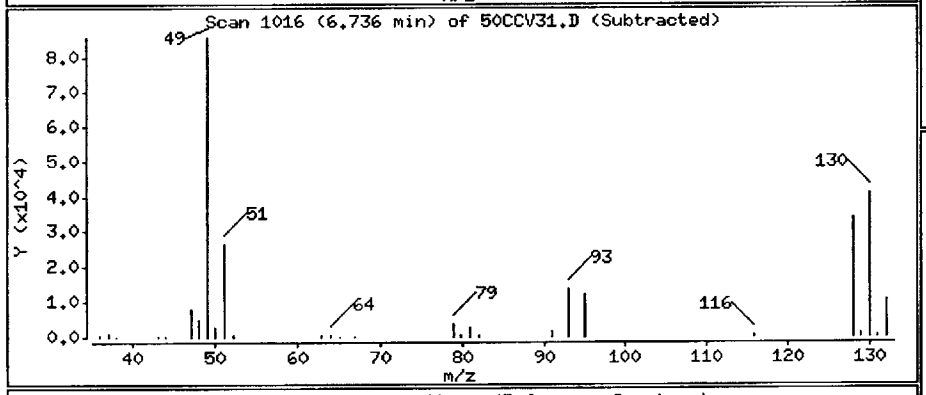
Sample Info: 092502CCVA31

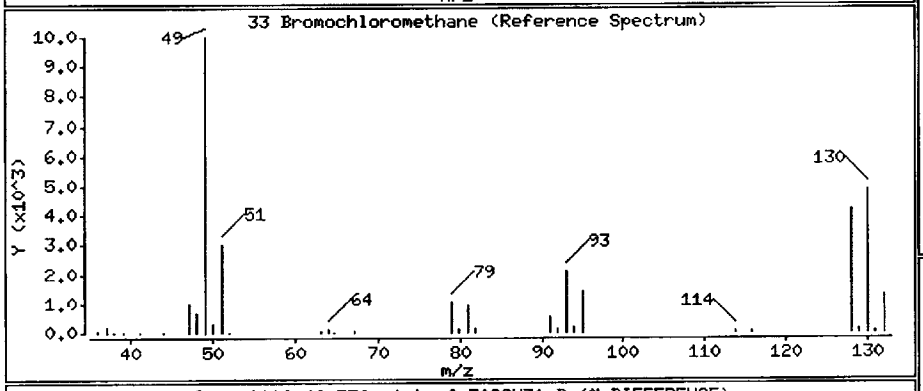
Purge Volume: 5.0 | Operator:

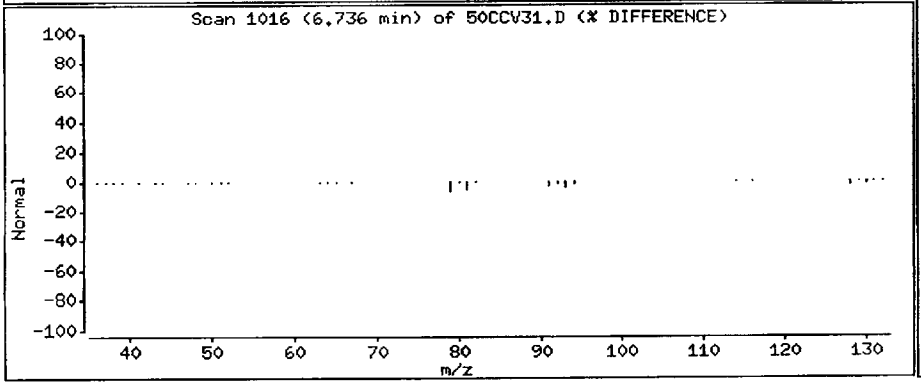
Column phase: DB-624 | Column diameter: 0.18

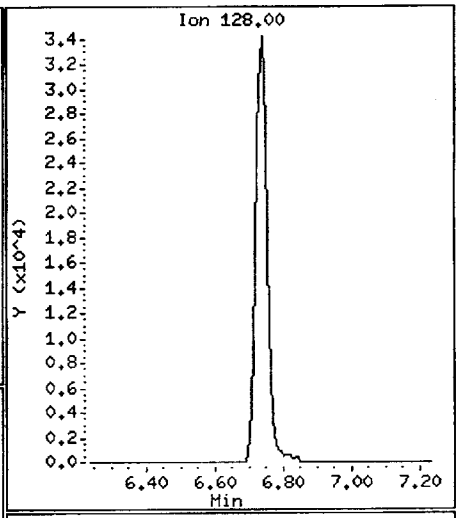
33 Bromochloromethane | Concentration: 53.2 ug/l

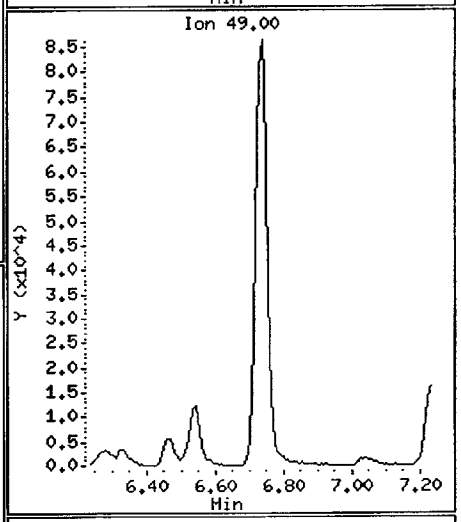


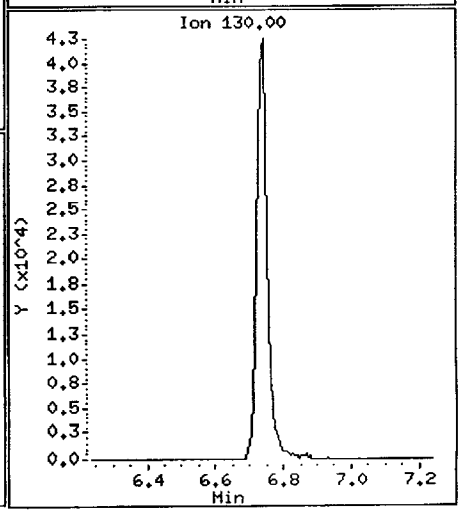












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\50CCV31.D

Date : 25-SEP-2002 06:02

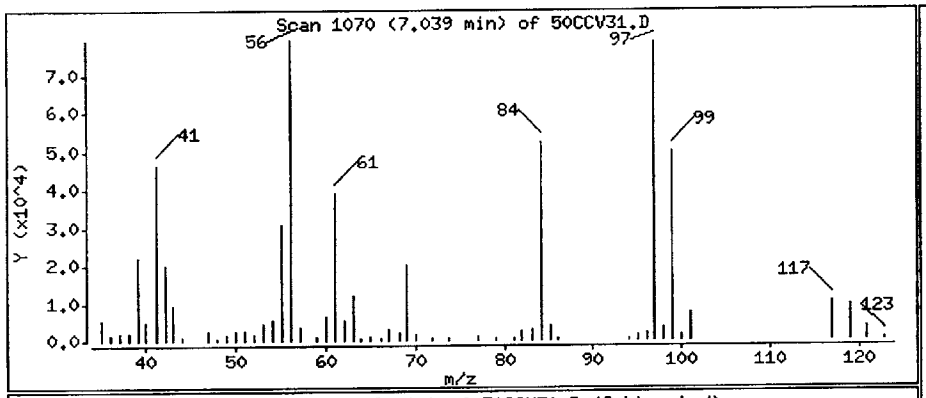
Client ID: 092502CCVA31 | Instrument: vms03.i

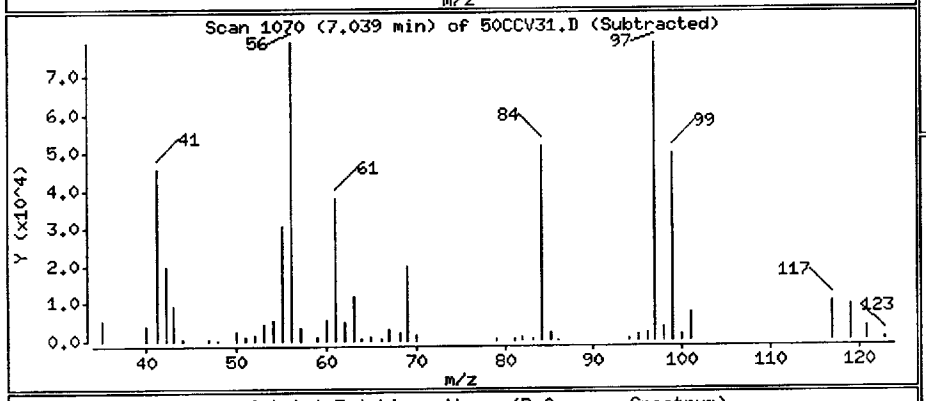
Sample Info: 092502CCVA31

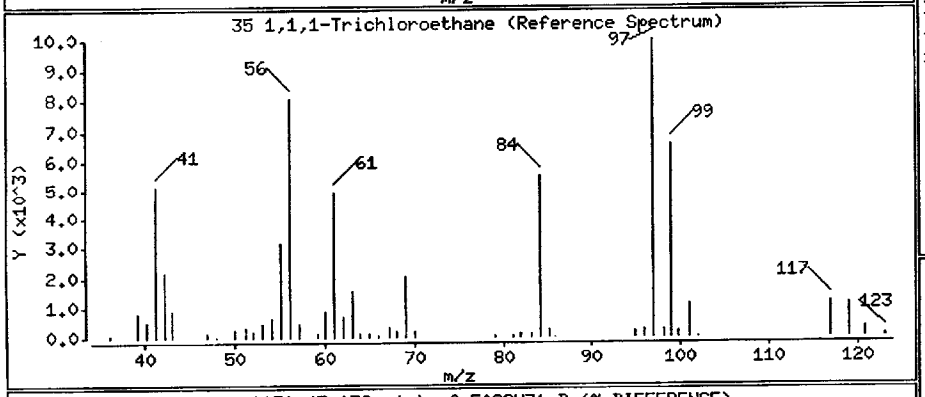
Purge Volume: 5.0 | Operator:

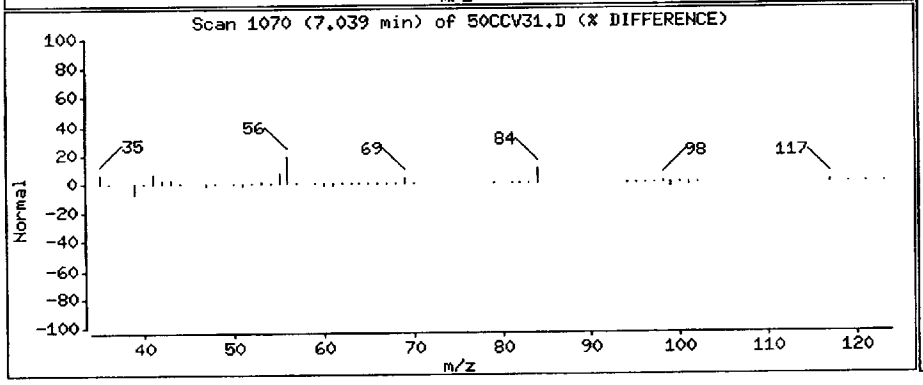
Column phase: DB-624 | Column diameter: 0.18

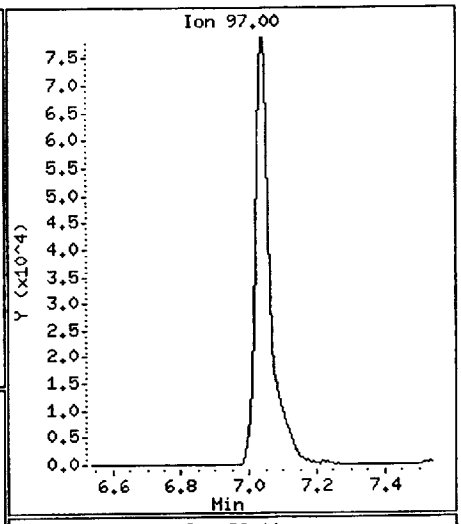
35 1,1,1-Trichloroethane | Concentration: 52.1 ug/l

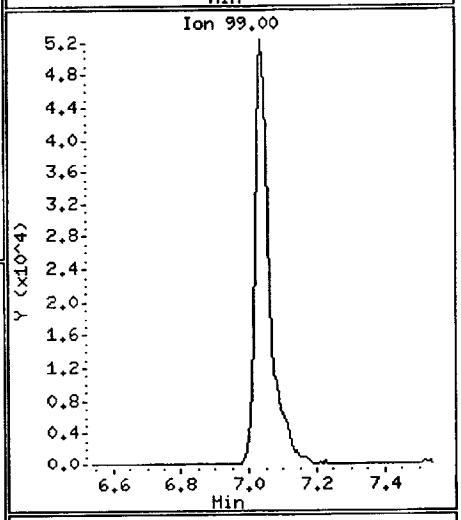


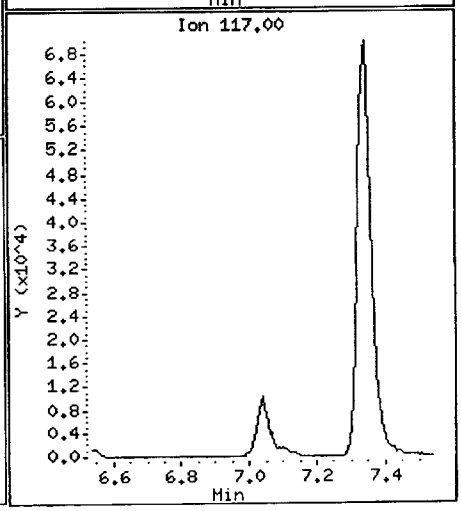












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\50CCV31.D

Date : 25-SEP-2002 06:02

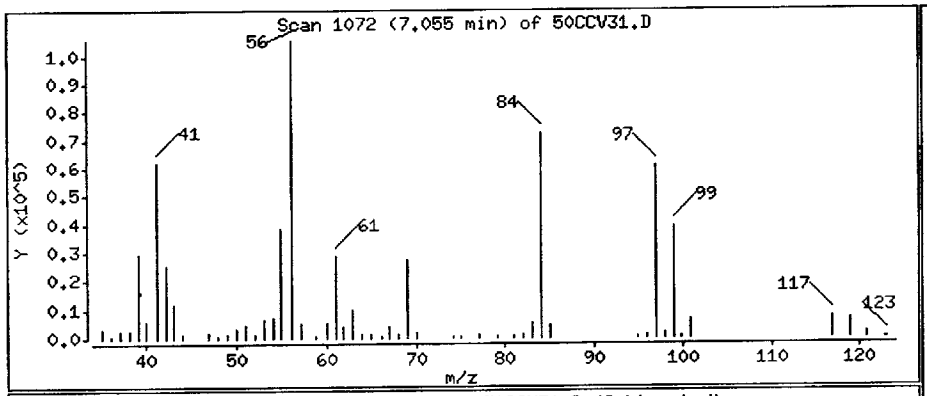
Client ID: 092502CCVA31 | Instrument: vms03.i

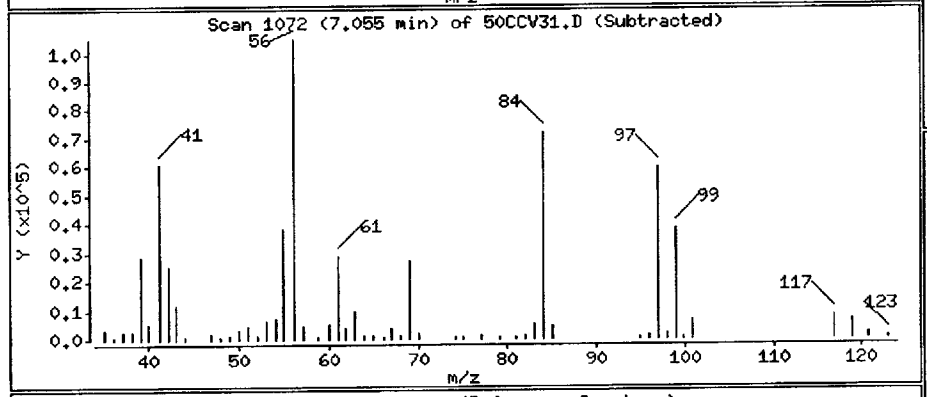
Sample Info: 092502CCVA31

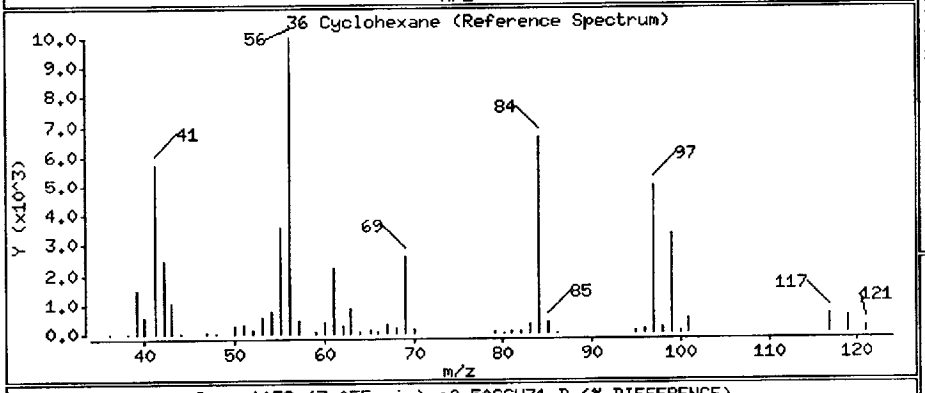
Purge Volume: 5.0 | Operator:

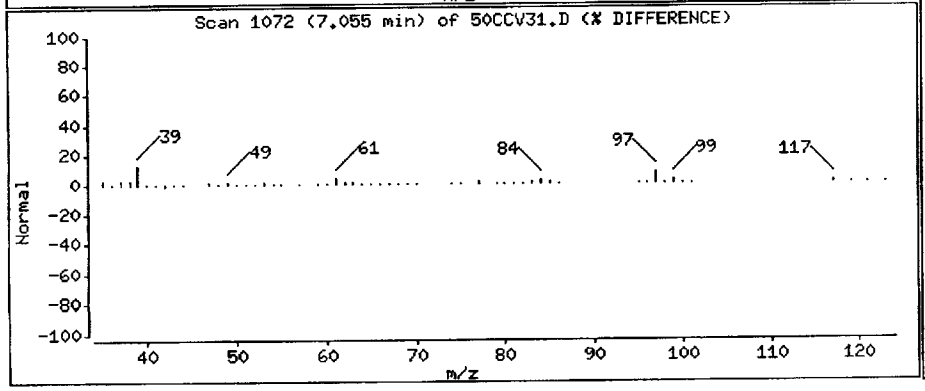
Column phase: DB-624 | Column diameter: 0.18

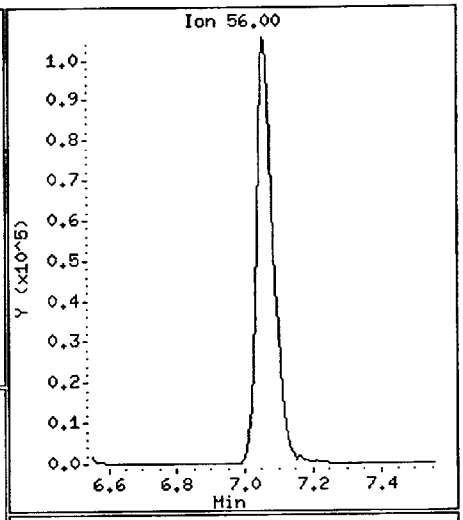
36 Cyclohexane | Concentration: 49.3 ug/l

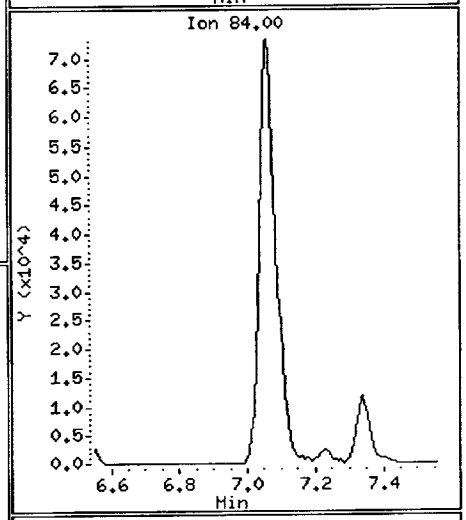


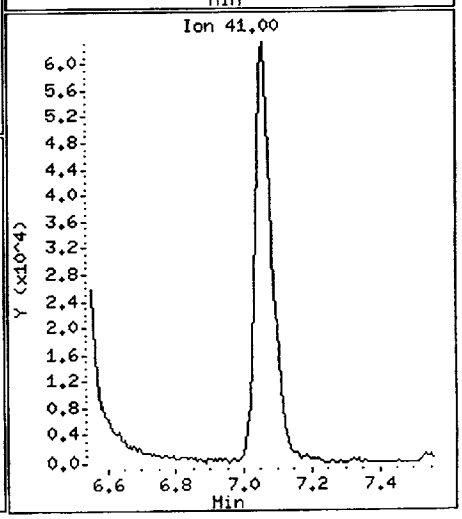












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\50CCV31.D

Date : 25-SEP-2002 06:02

Client ID: 092502CCVA31

Instrument: vms03.i

Sample Info: 092502CCVA31

Purge Volume: 5.0

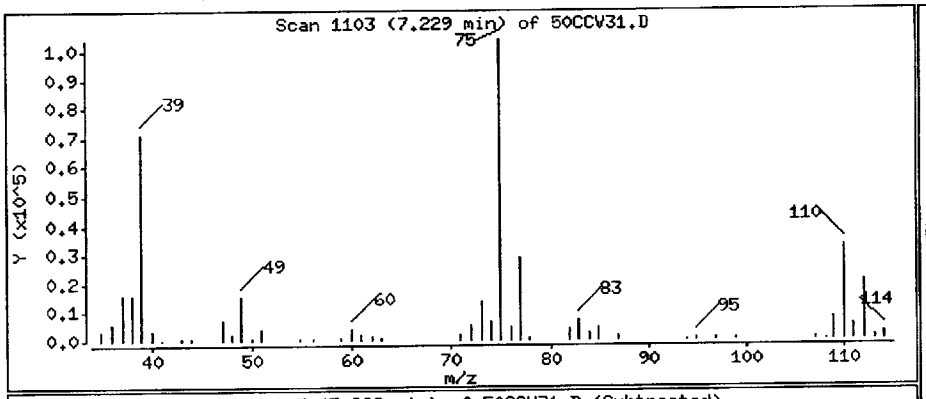
Operator:

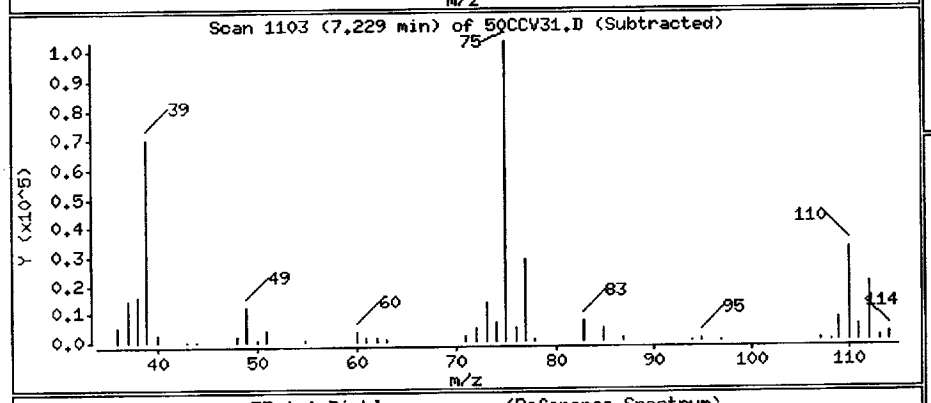
Column phase: DB-624

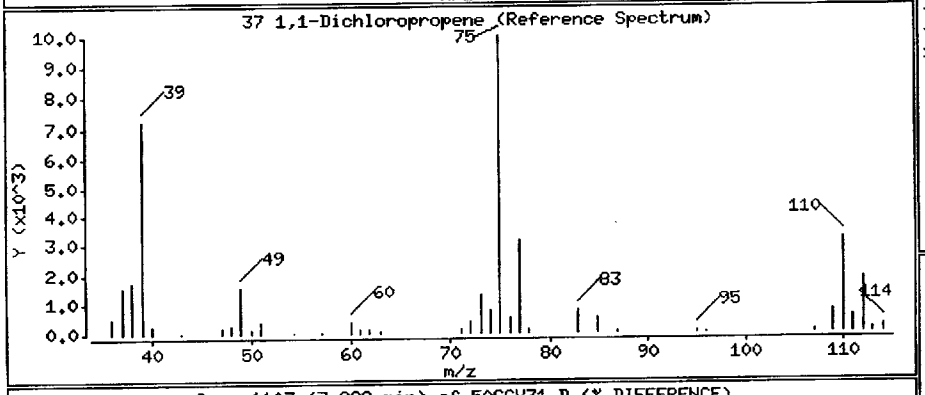
Column diameter: 0.18

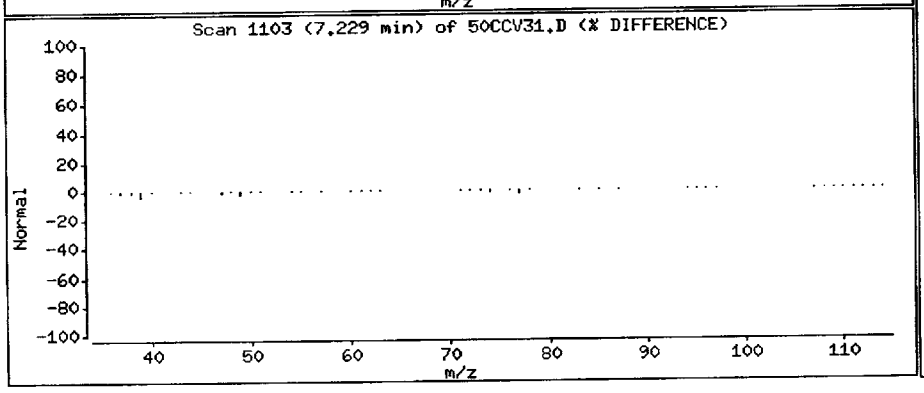
37 1,1-Dichloropropene

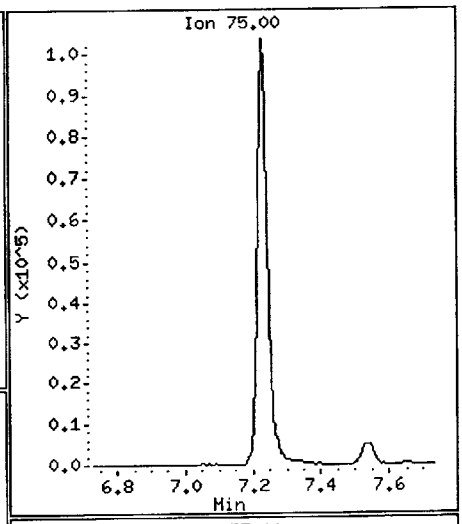
Concentration: 50.8 ug/l

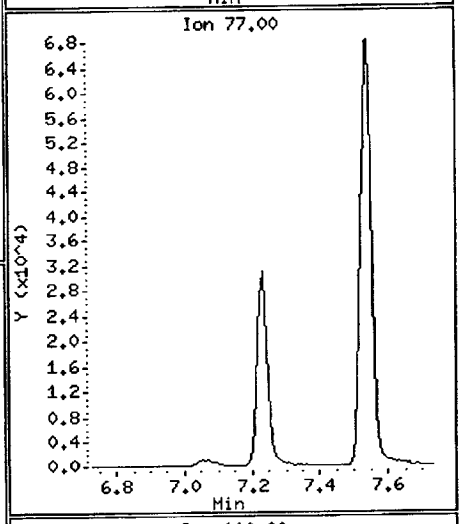


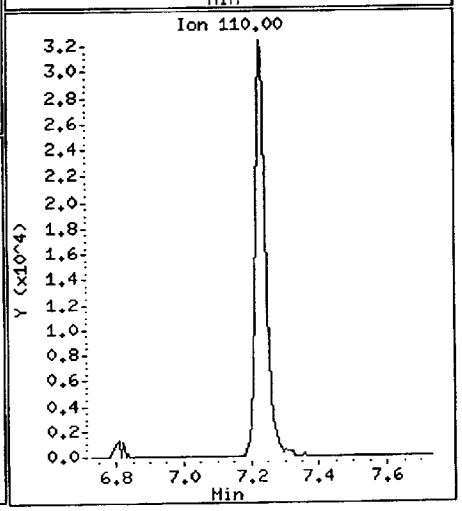












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\50CCV31.D

Date : 25-SEP-2002 06:02

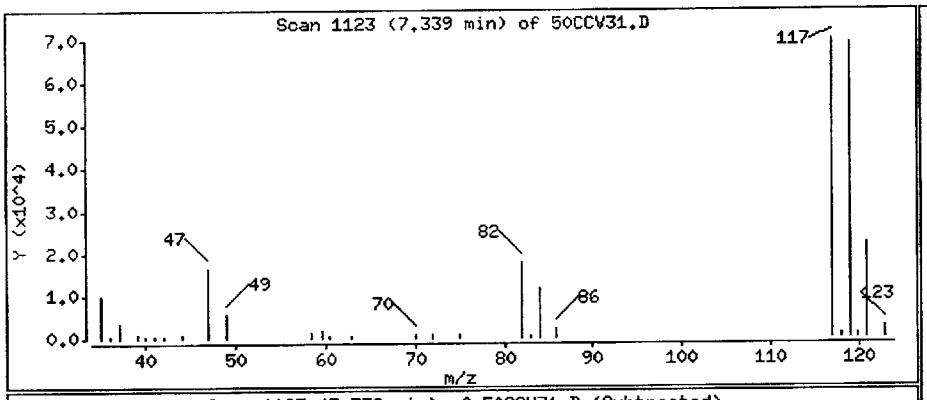
Client ID: 092502CCVA31 | Instrument: vms03.i

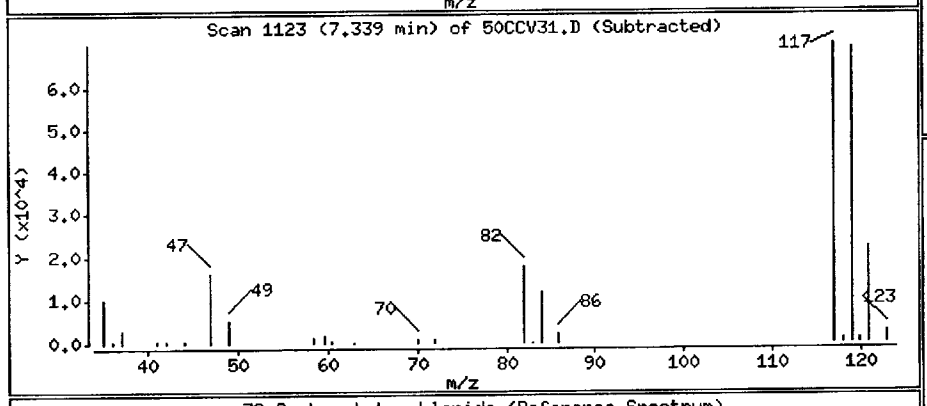
Sample Info: 092502CCVA31

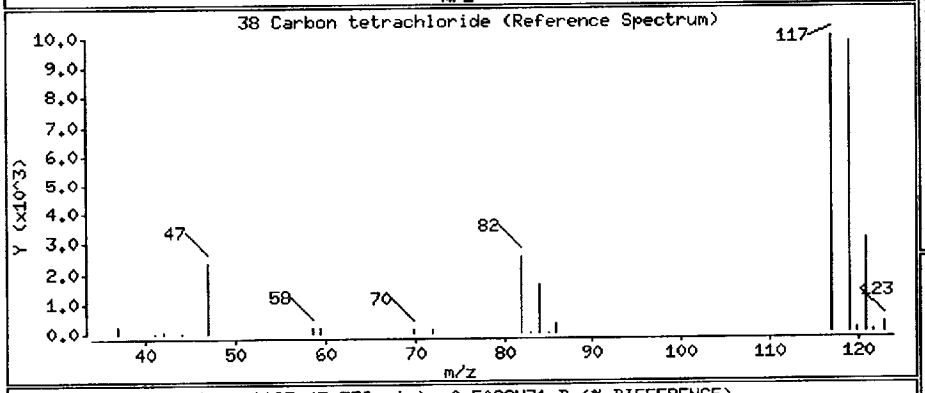
Purge Volume: 5.0 | Operator:

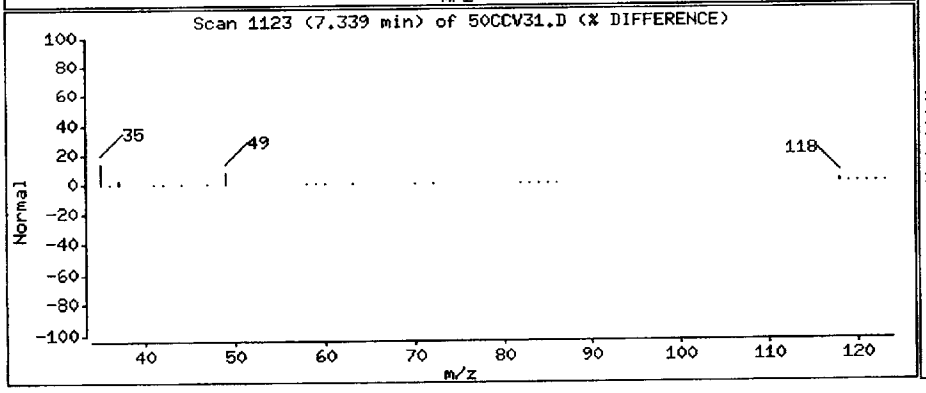
Column phase: DB-624 | Column diameter: 0.18

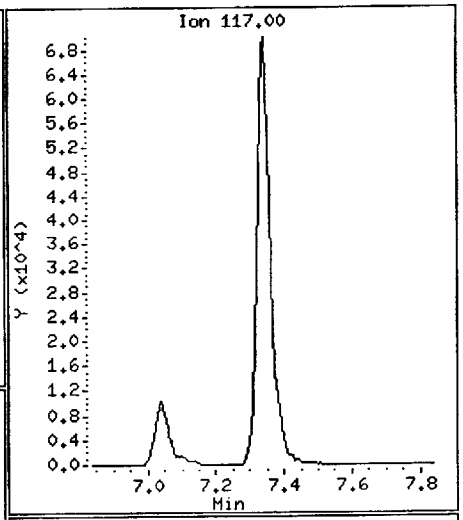
38 Carbon tetrachloride | Concentration: 51.0 ug/l

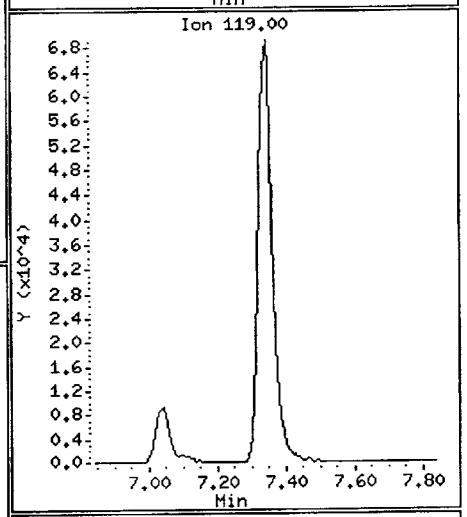


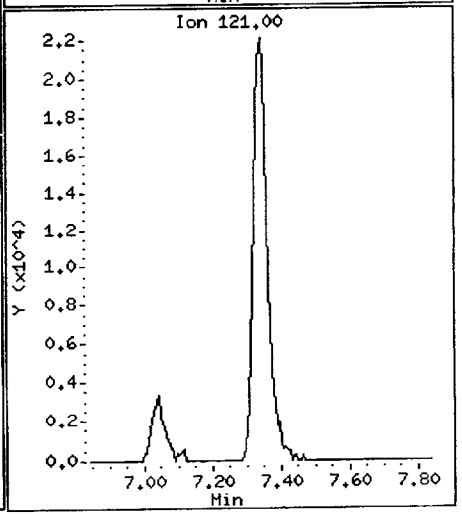












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\50CCV31.D

Date : 25-SEP-2002 06:02

Client ID: 092502CCVA31

Instrument: vms03.i

Sample Info: 092502CCVA31

Purge Volume: 5.0

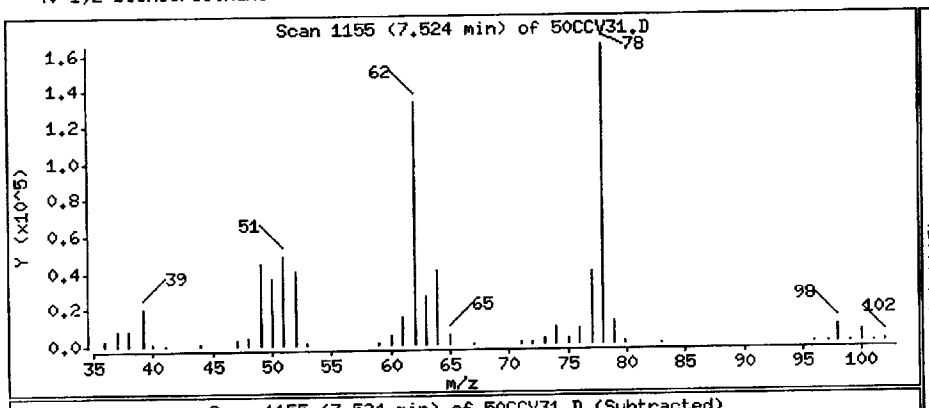
Operator:

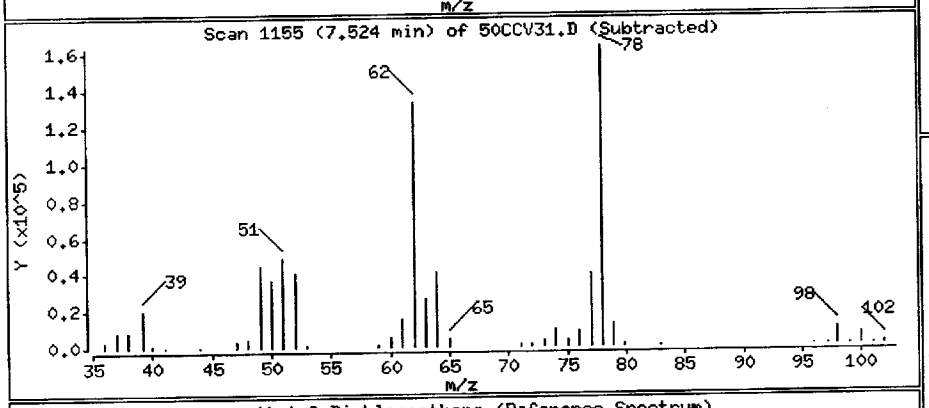
Column phase: DB-624

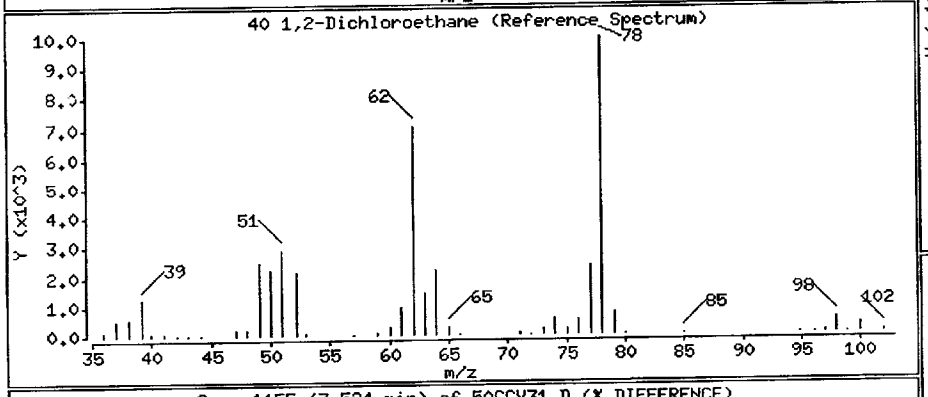
Column diameter: 0.18

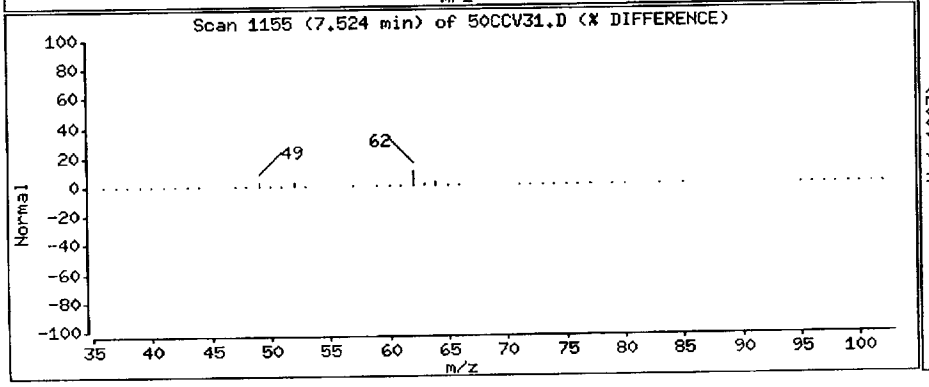
40 1,2-Dichloroethane

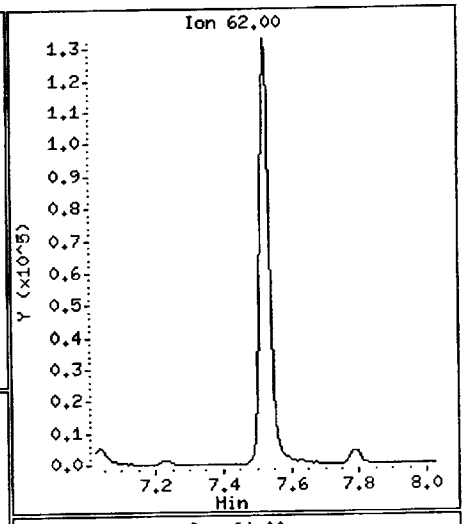
Concentration: 51.5 ug/l

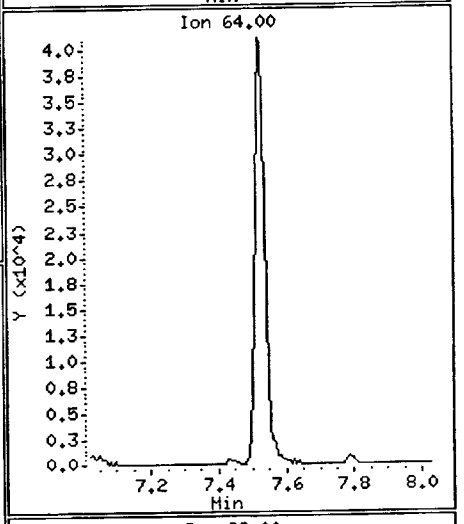


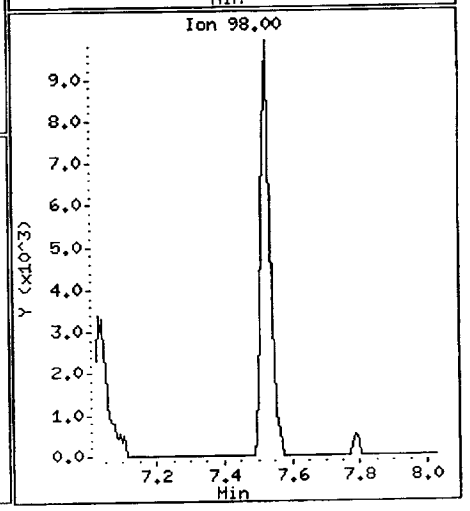












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\50CCV31.D

Date : 25-SEP-2002 06:02

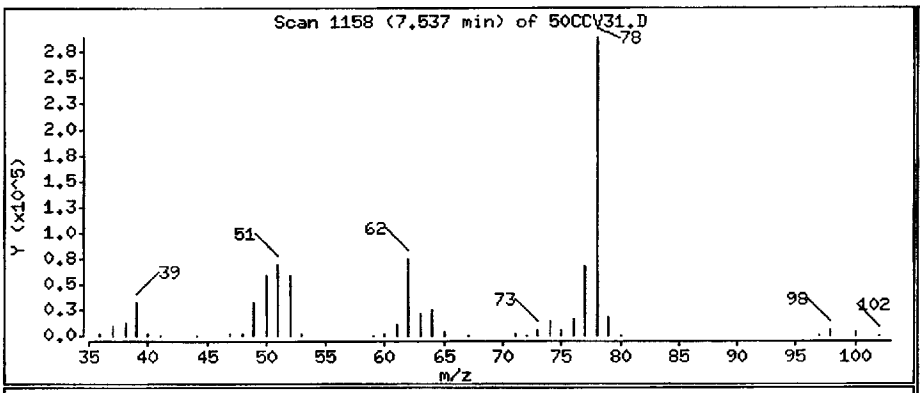
Client ID: 092502CCVA31 | Instrument: vms03.i

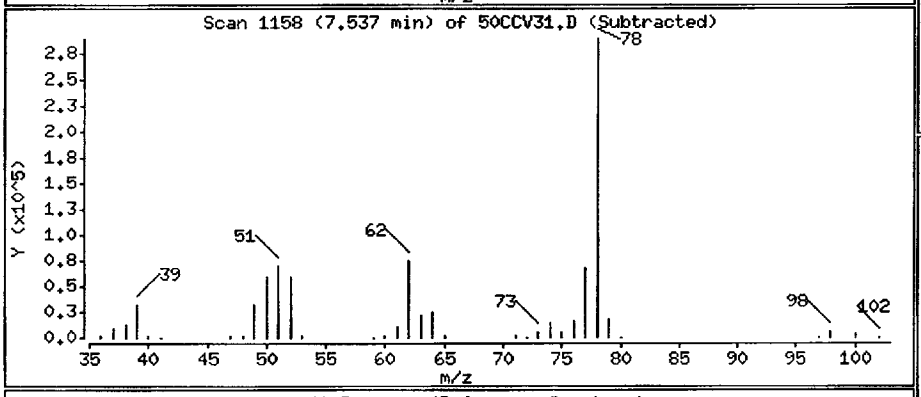
Sample Info: 092502CCVA31

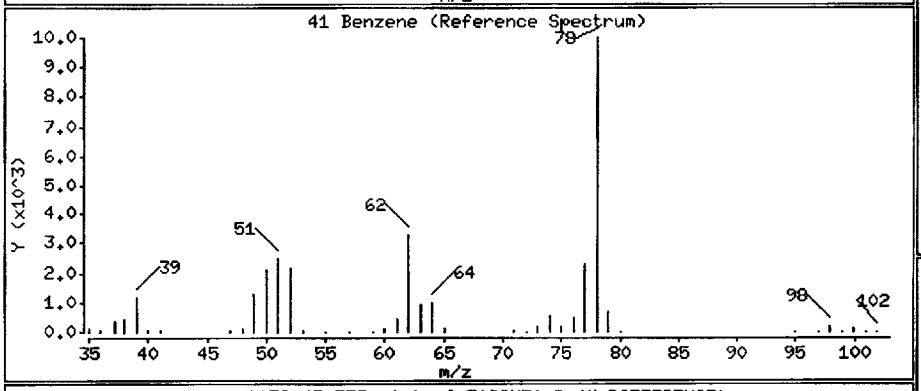
Purge Volume: 5.0 | Operator:

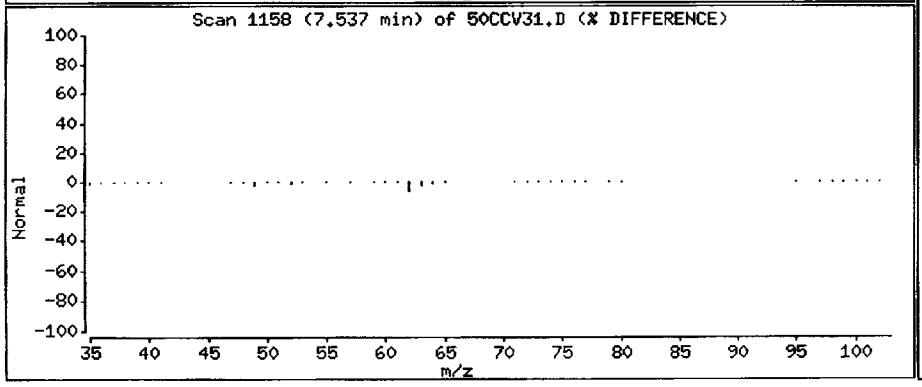
Column phase: DB-624 | Column diameter: 0.18

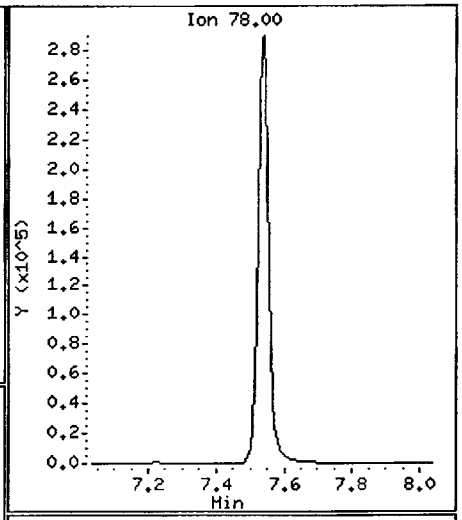
41 Benzene | Concentration: 50.4 ug/l

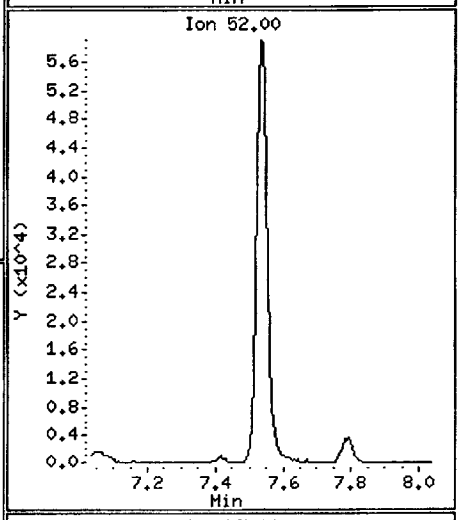


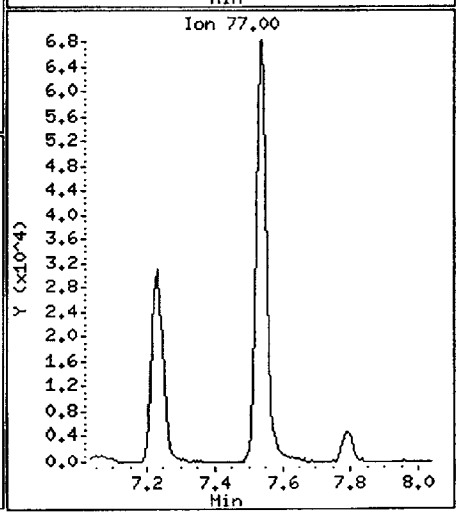












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\50CCV31.D

Date : 25-SEP-2002 06:02

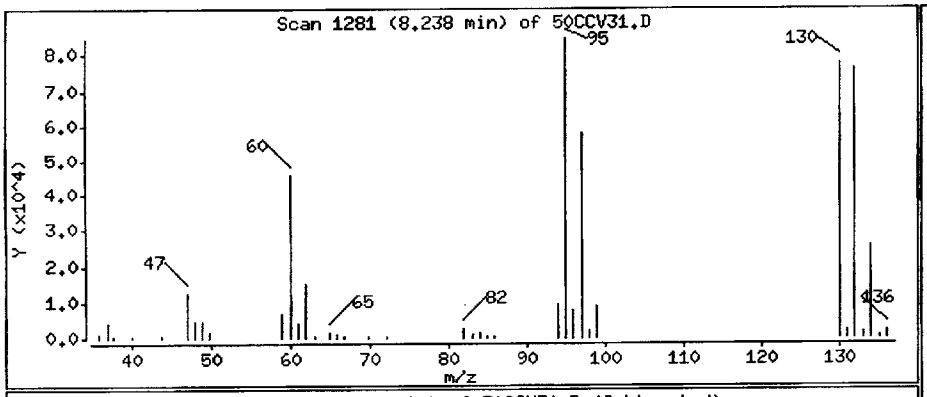
Client ID: 092502CCVA31 | Instrument: vms03.i

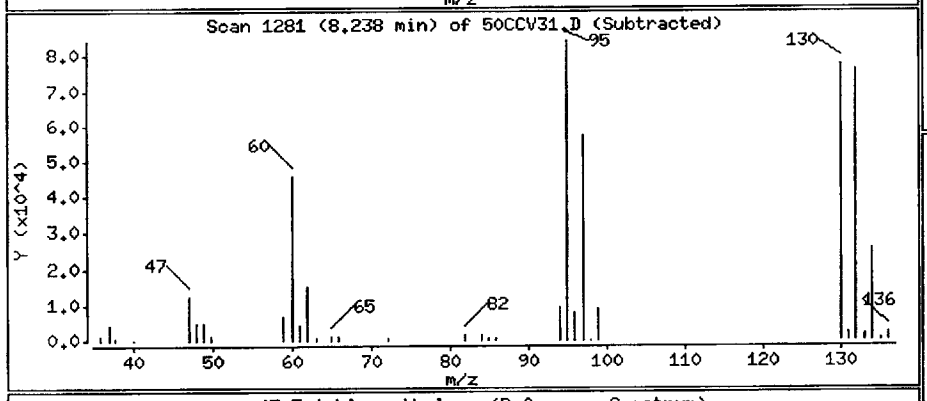
Sample Info: 092502CCVA31

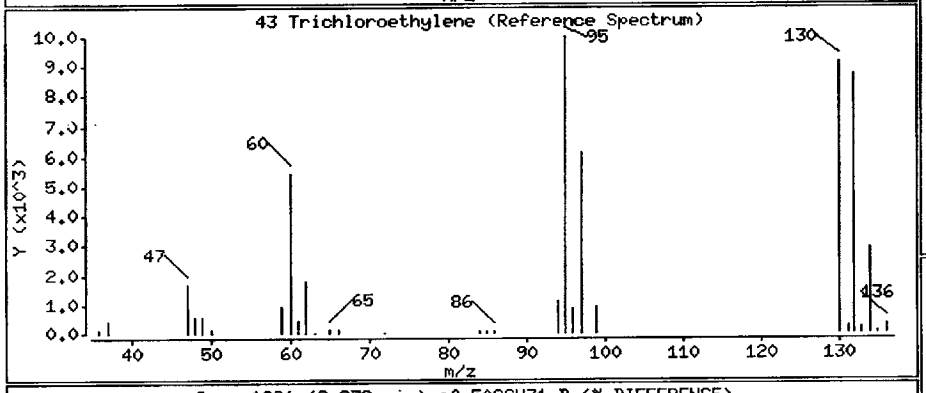
Purge Volume: 5.0 | Operator:

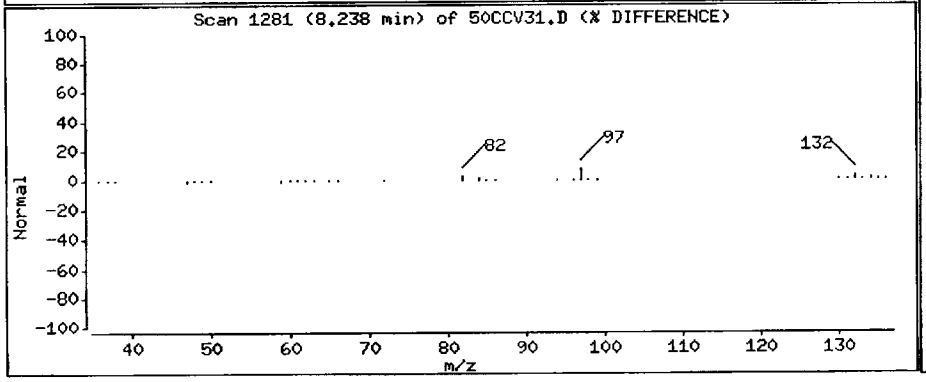
Column phase: DB-624 | Column diameter: 0.18

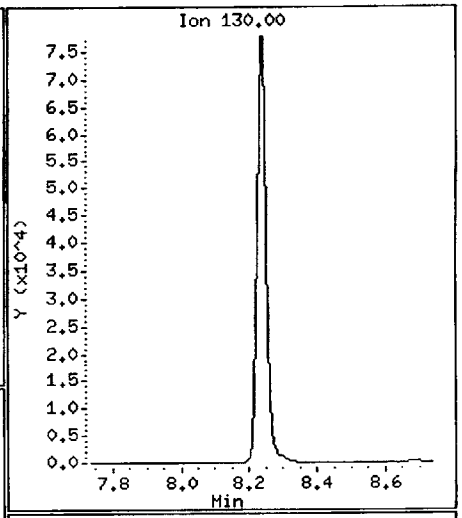
43 Trichloroethylene | Concentration: 52.0 ug/l

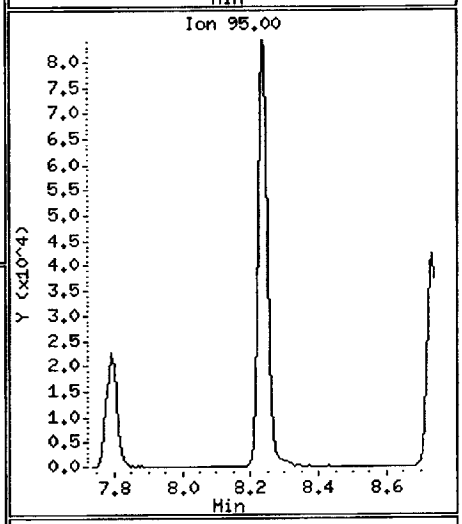


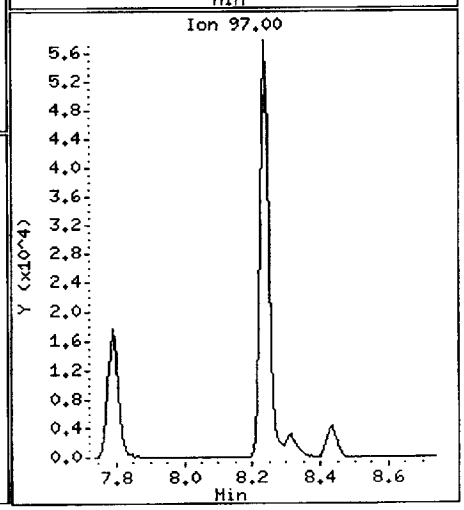












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\50CCV31.D

Date : 25-SEP-2002 06:02

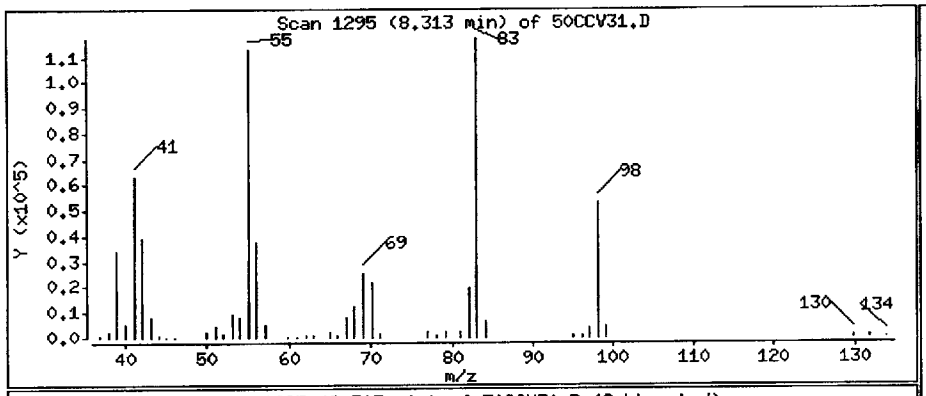
Client ID: 092502CCVA31 | Instrument: vms03.i

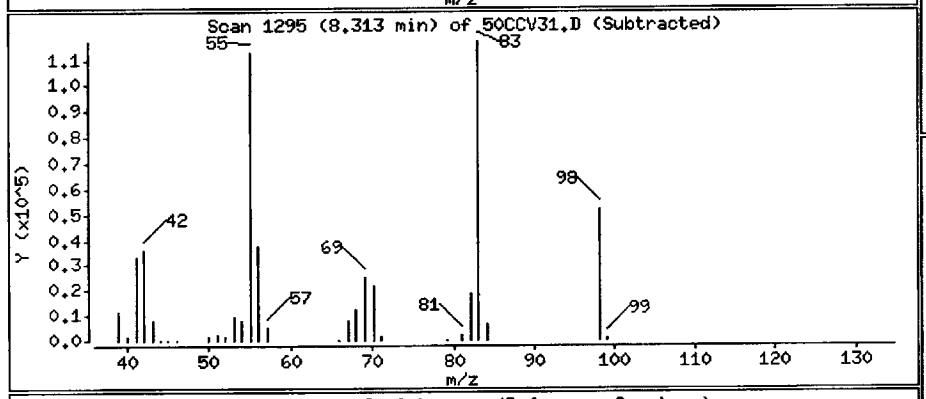
Sample Info: 092502CCVA31

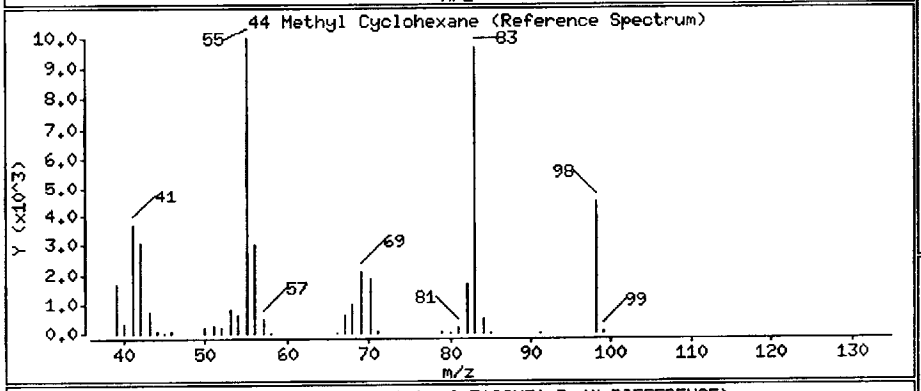
Purge Volume: 5.0 | Operator:

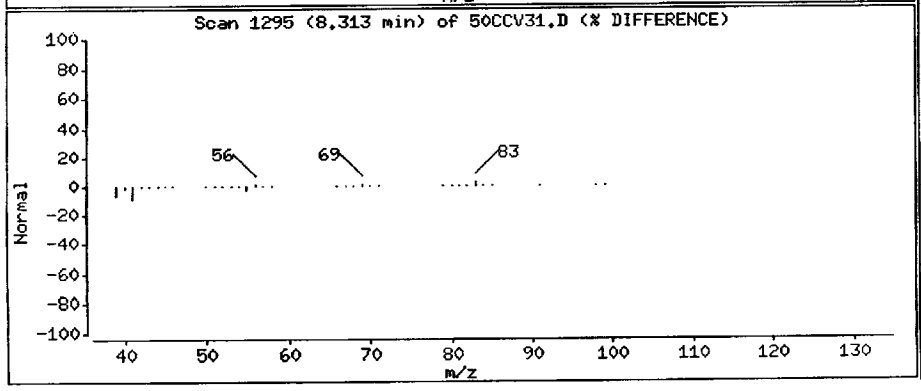
Column phase: DB-624 | Column diameter: 0.18

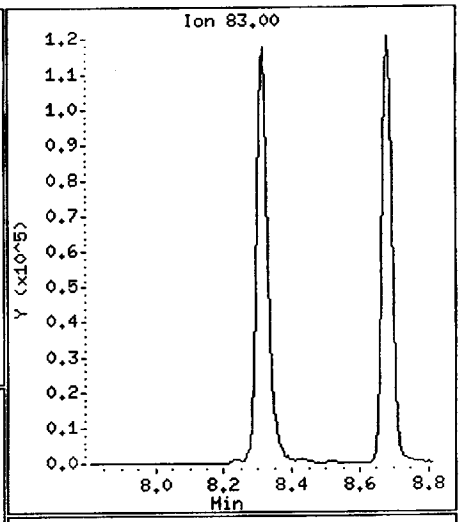
44 Methyl Cyclohexane | Concentration: 49.2 ug/l

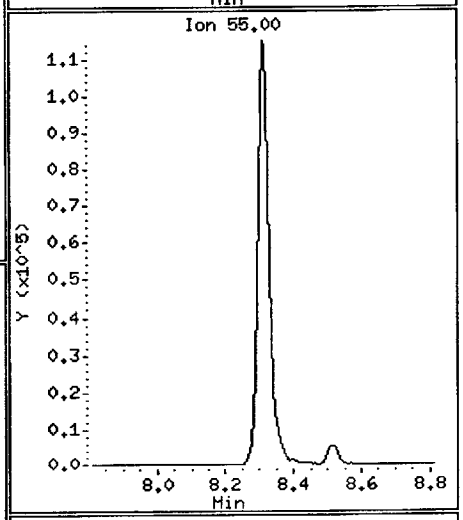


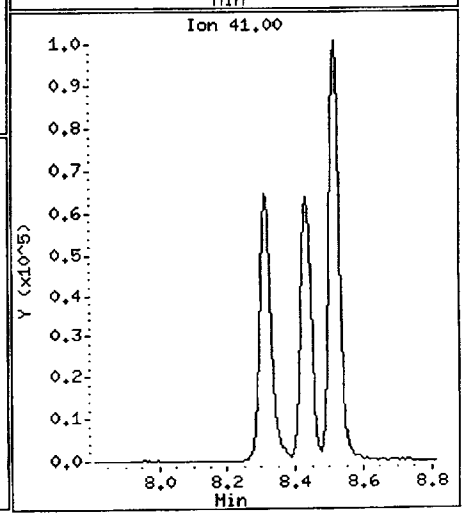












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\50CCV31.D

Date : 25-SEP-2002 06:02

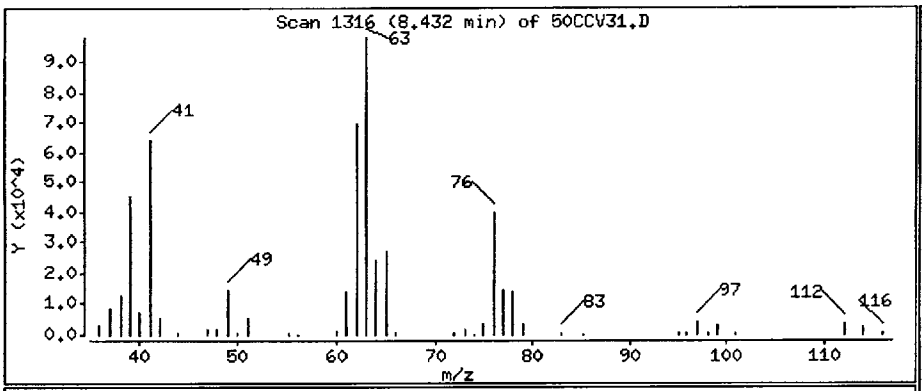
Client ID: 092502CCVA31 | Instrument: vms03.i

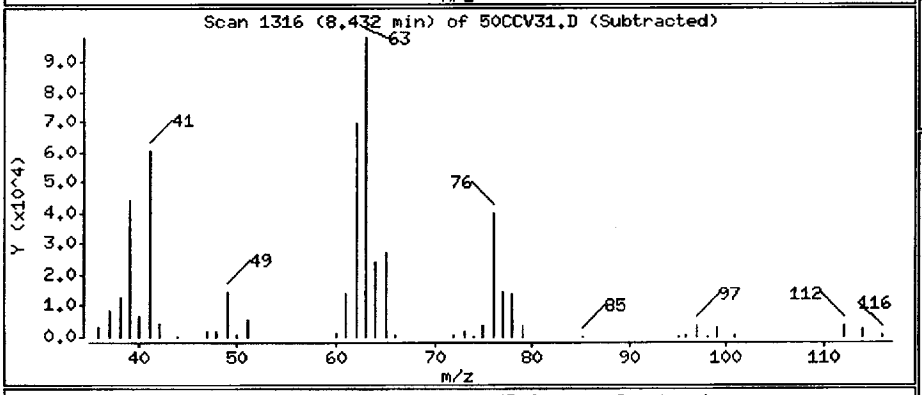
Sample Info: 092502CCVA31

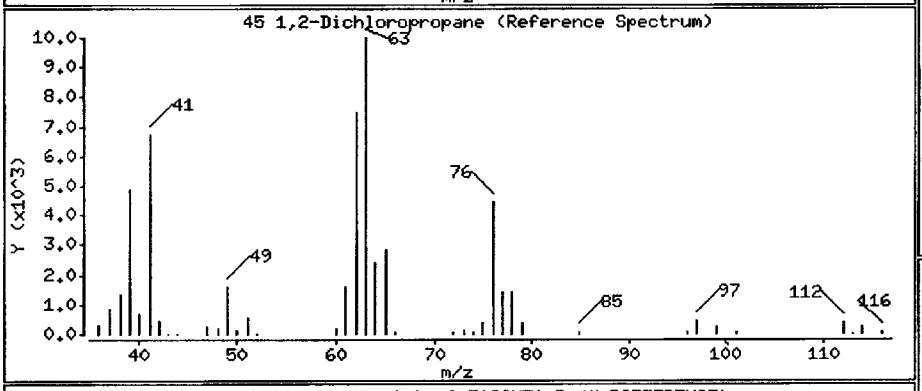
Purge Volume: 5.0 | Operator:

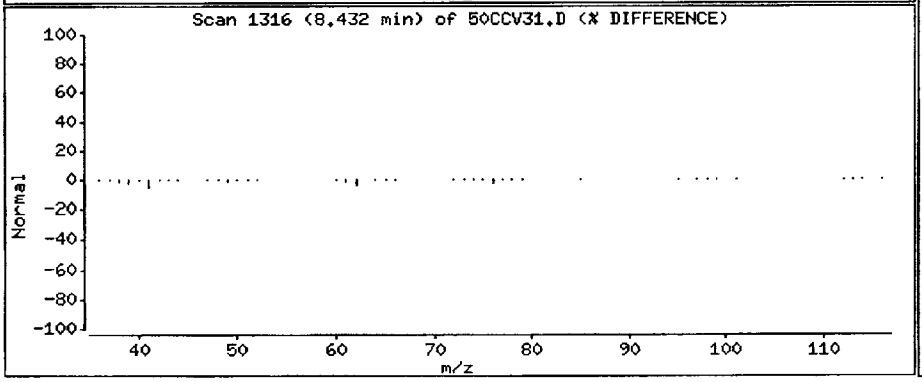
Column phase: DB-624 | Column diameter: 0.18

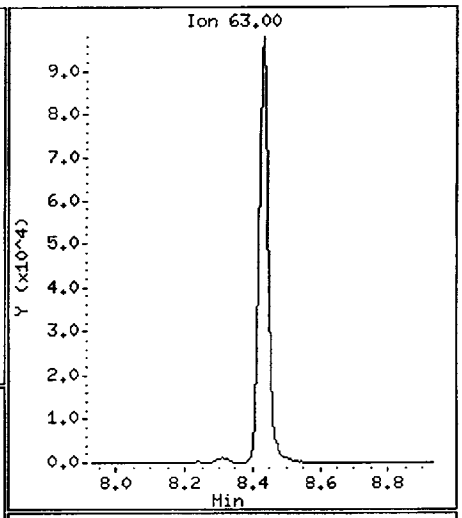
45 1,2-Dichloropropane | Concentration: 52.3 ug/l

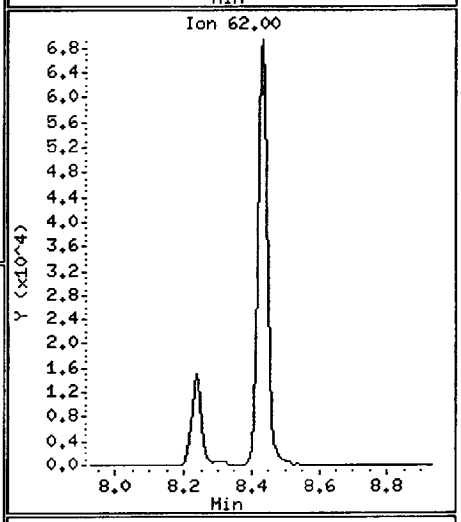


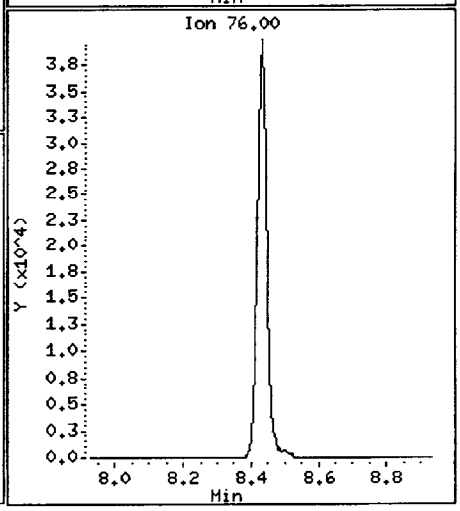












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\50CCV31.D

Date : 25-SEP-2002 06:02

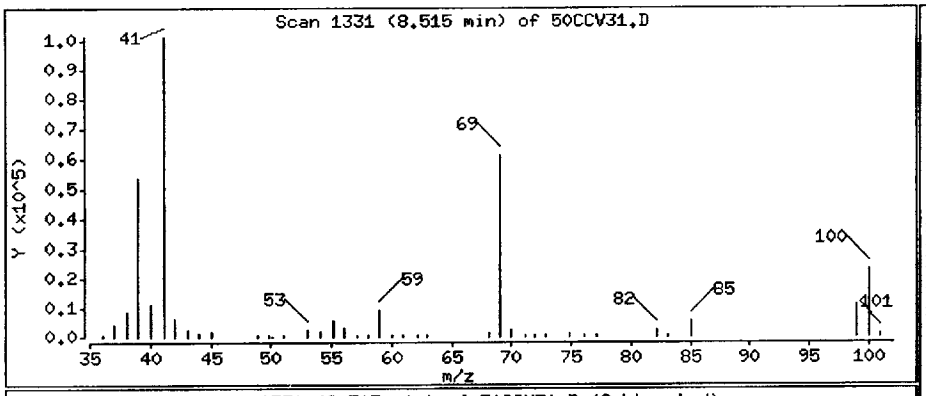
Client ID: 092502CCVA31 | Instrument: vms03.i

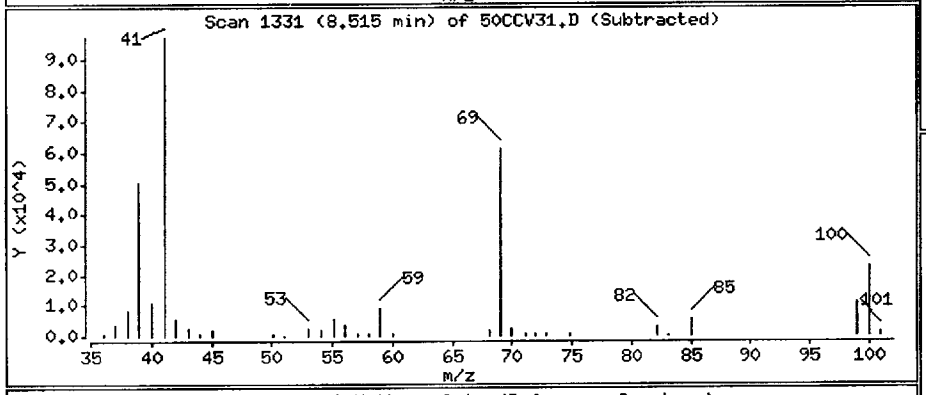
Sample Info: 092502CCVA31

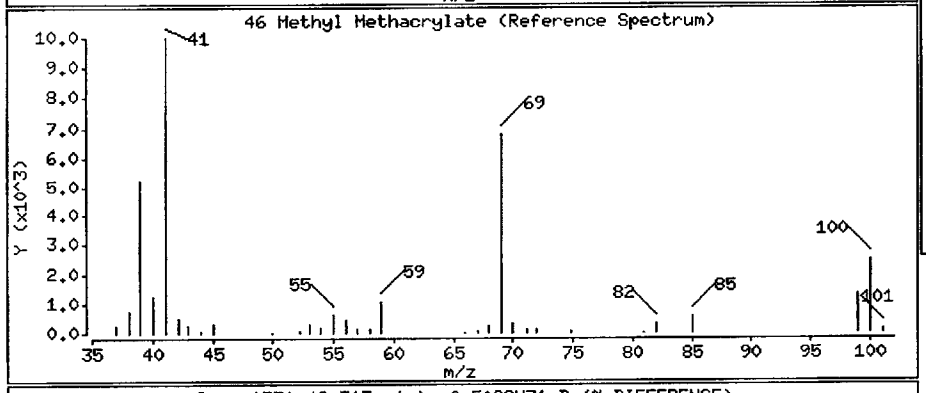
Purge Volume: 5.0 | Operator:

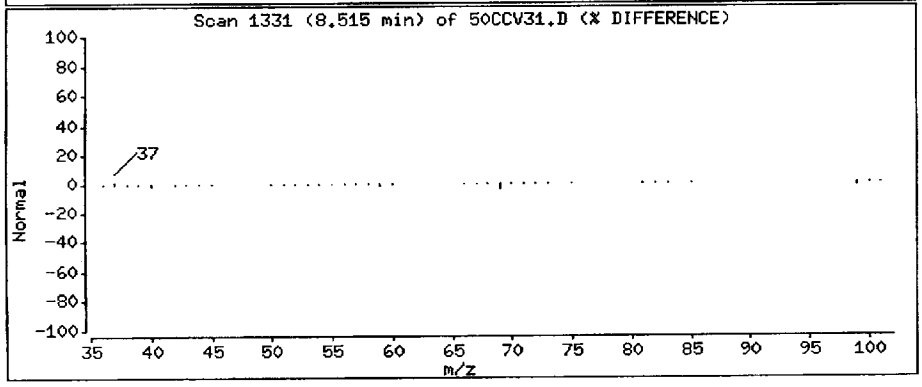
Column phase: DB-624 | Column diameter: 0.18

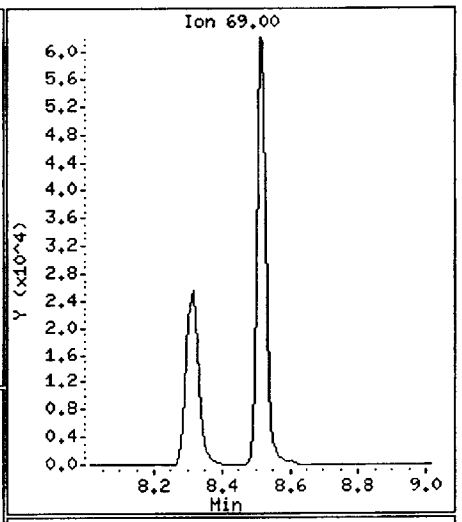
46 Methyl Methacrylate | Concentration: 54.1 ug/l

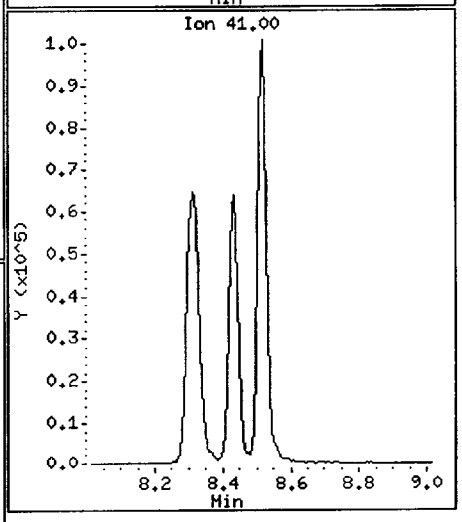












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Date : 25-SEP-2002 06:02

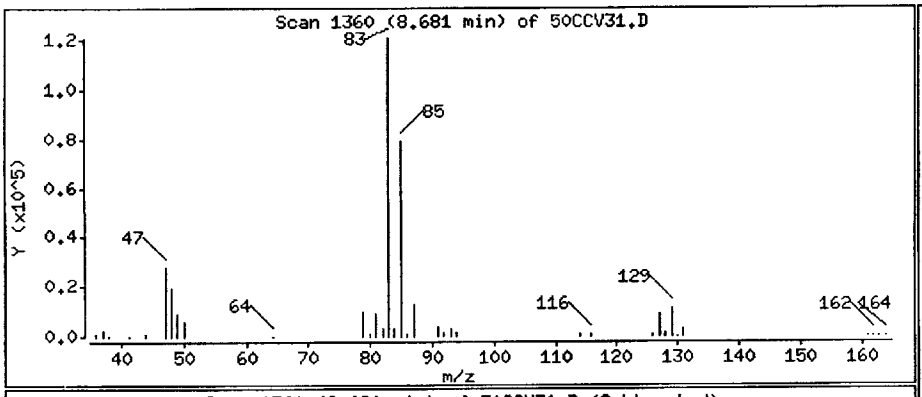
Client ID: 092502CCVA31 | Instrument: vms03.i

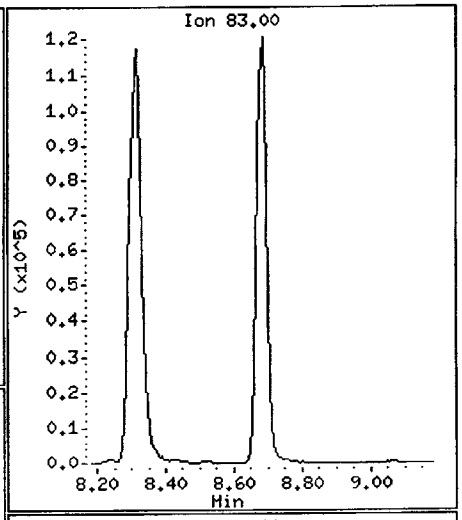
Sample Info: 092502CCVA31

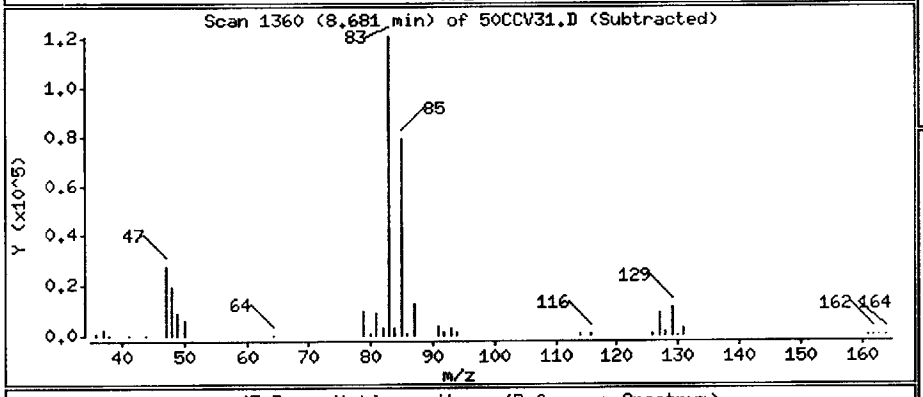
Purge Volume: 5.0 | Operator:

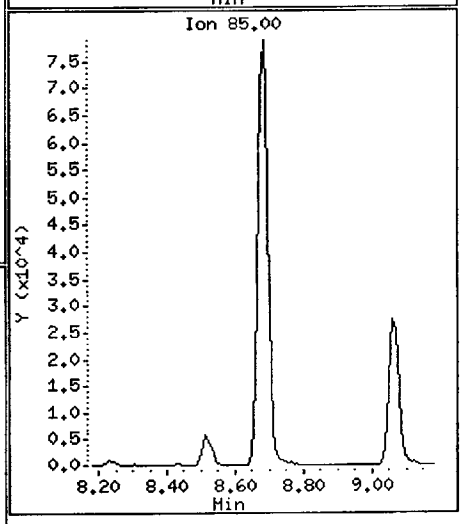
Column phase: DB-624 | Column diameter: 0.18

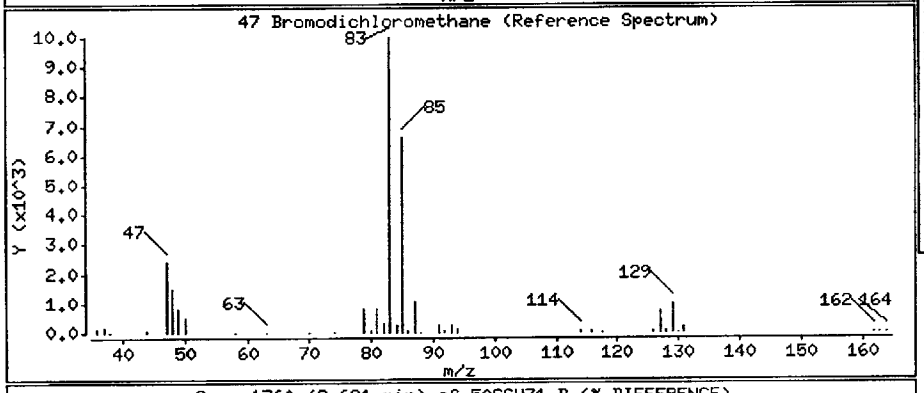
47 Bromodichloromethane | Concentration: 52.2 ug/l

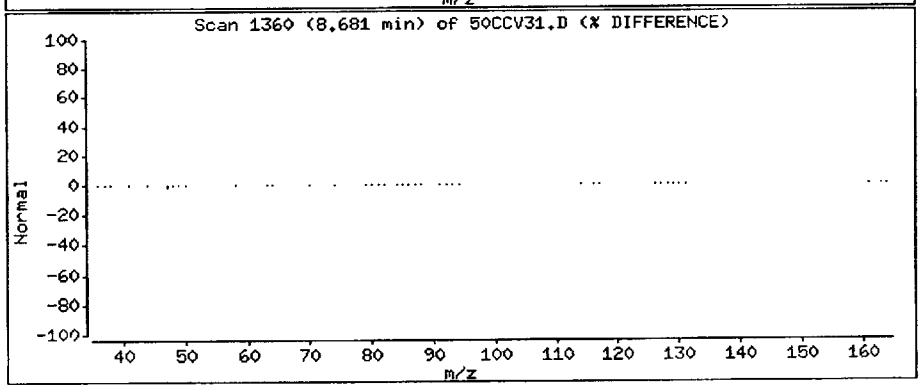












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\50CCV31.D

Date : 25-SEP-2002 06:02

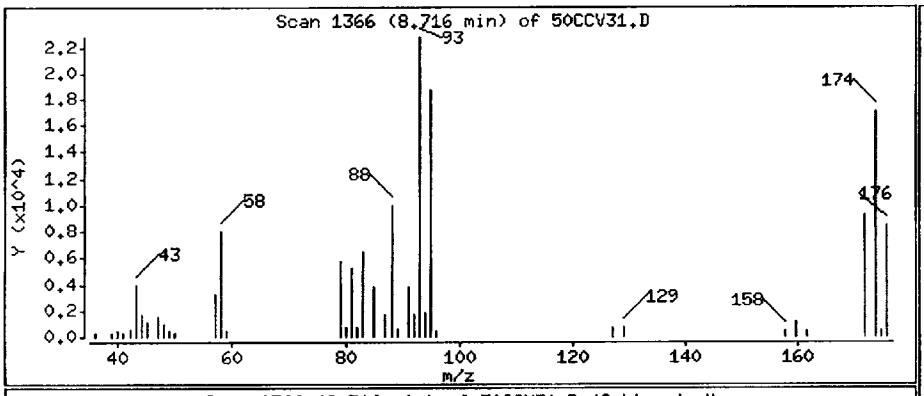
Client ID: 092502CCVA31 | Instrument: vms03.i

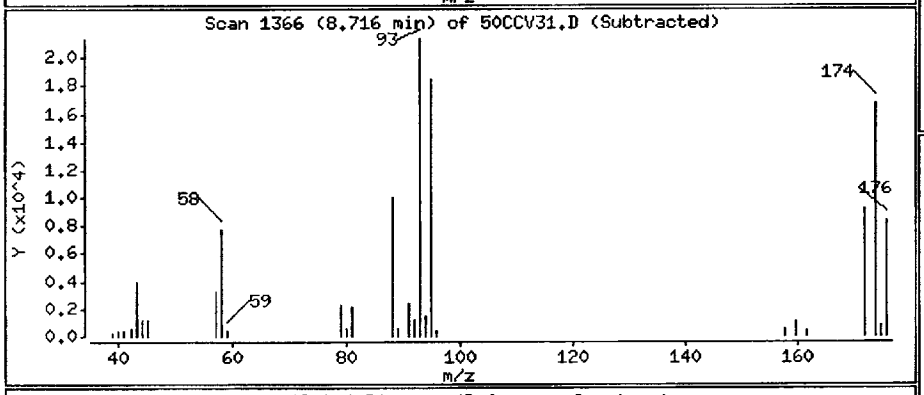
Sample Info: 092502CCVA31

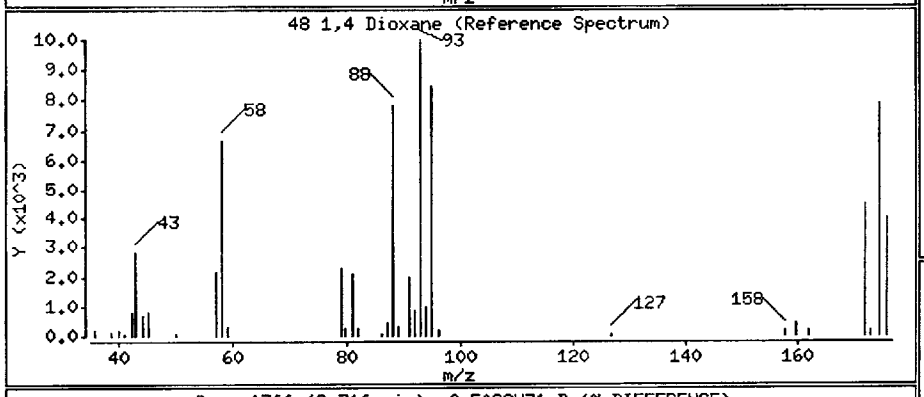
Purge Volume: 5.0 | Operator:

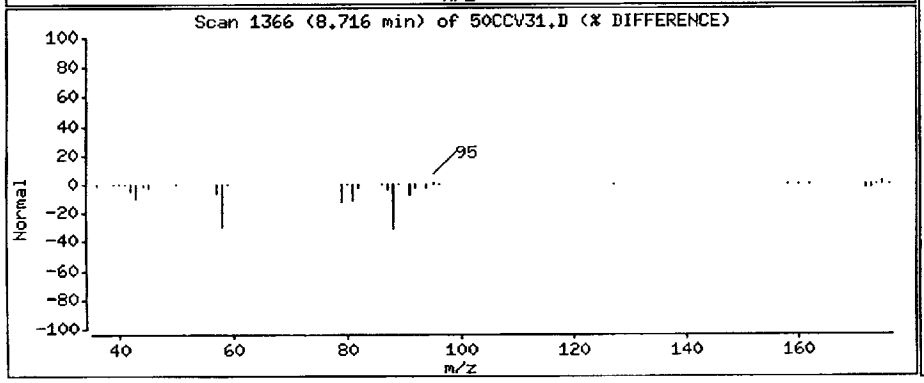
Column phase: DB-624 | Column diameter: 0.18

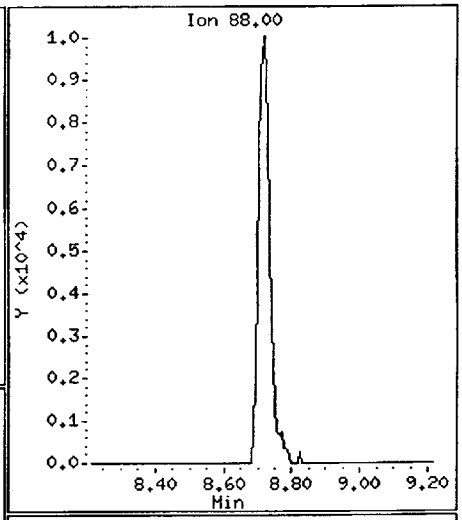
48 1,4 Dioxane | Concentration: 811 ug/l

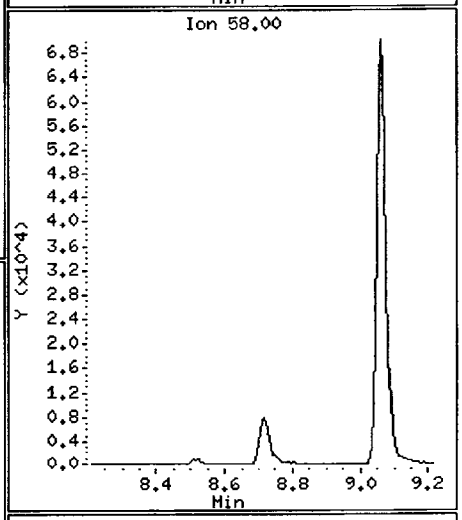


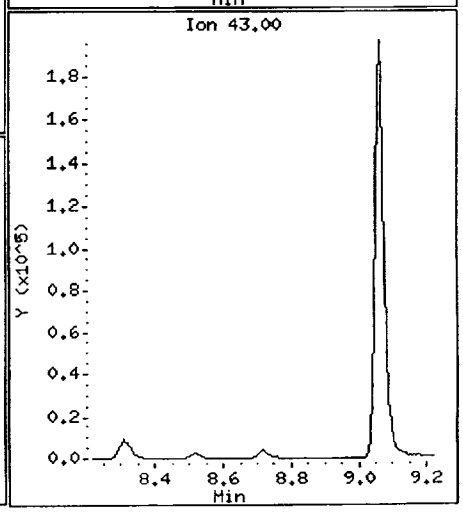












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\50CCV31.D

Date : 25-SEP-2002 06:02

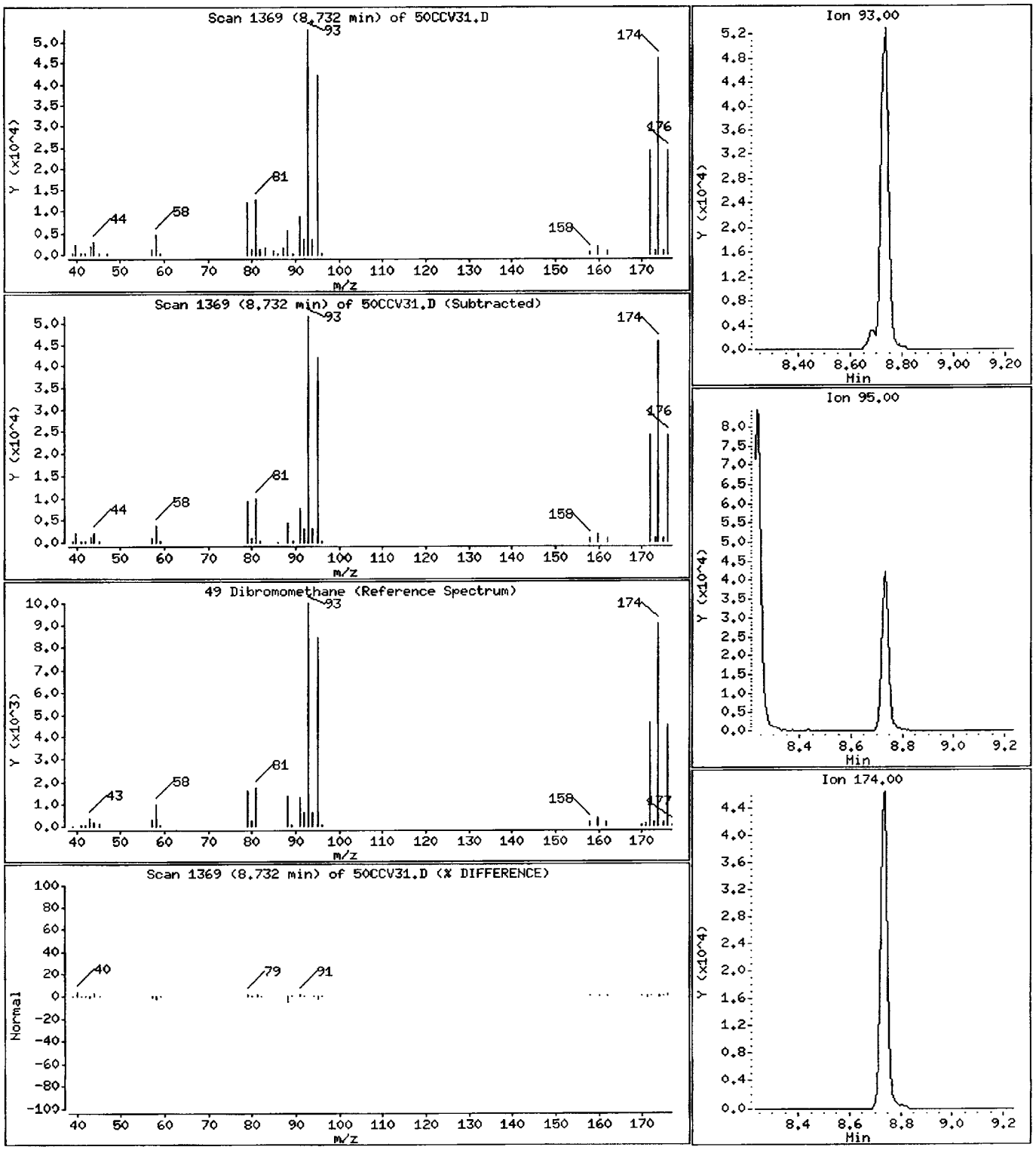
Client ID: 092502CCVA31 | Instrument: vms03.i

Sample Info: 092502CCVA31

Purge Volume: 5.0 | Operator:

Column phase: DB-624 | Column diameter: 0.18

49 Dibromomethane | Concentration: 52.8 ug/l



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Date : 25-SEP-2002 06:02

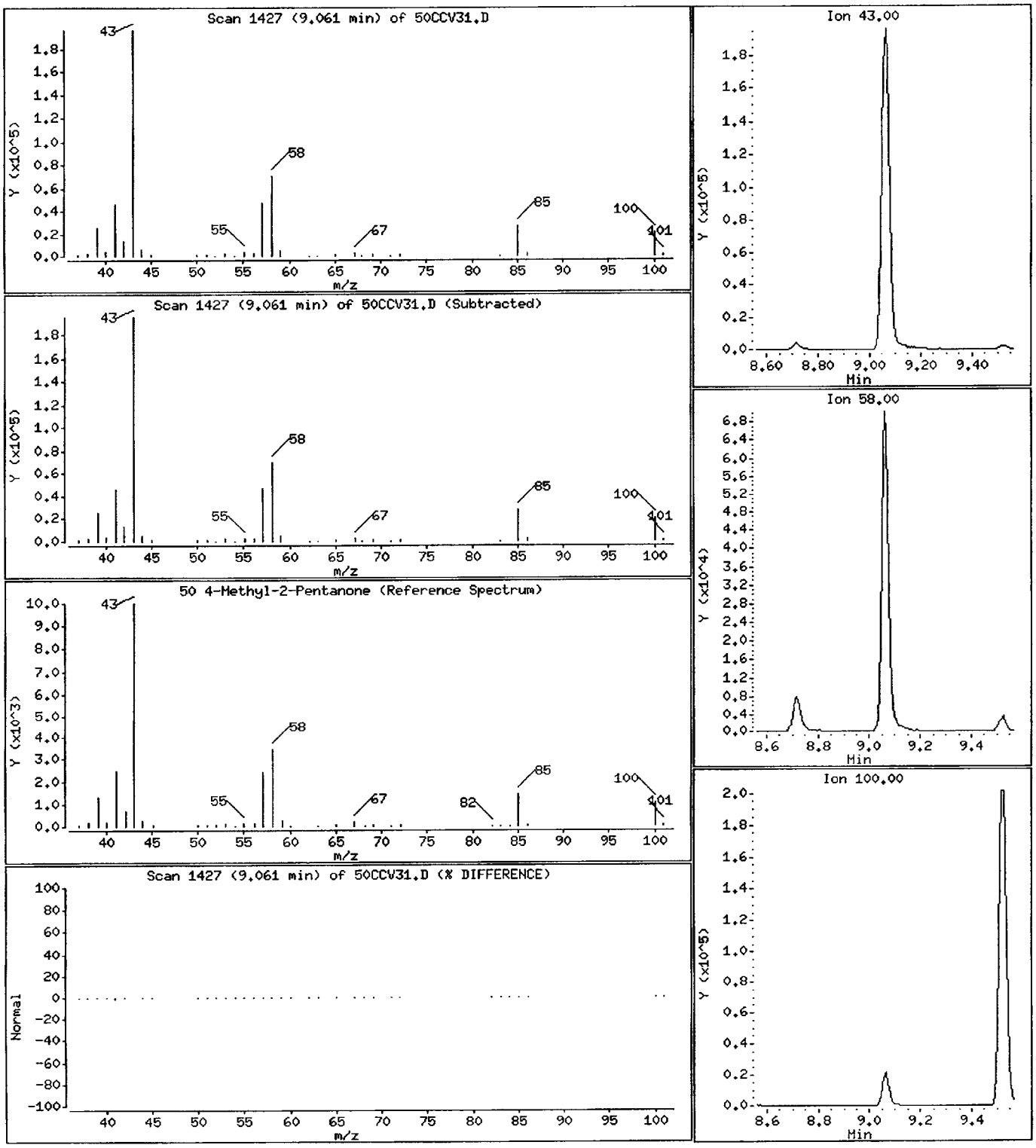
Client ID: 092502CCVA31 | Instrument: vms03.i

Sample Info: 092502CCVA31

Purge Volume: 5.0 | Operator:

Column phase: DB-624 | Column diameter: 0.18

50 4-Methyl-2-Pentanone | Concentration: 110 ug/l



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Date : 25-SEP-2002 06:02

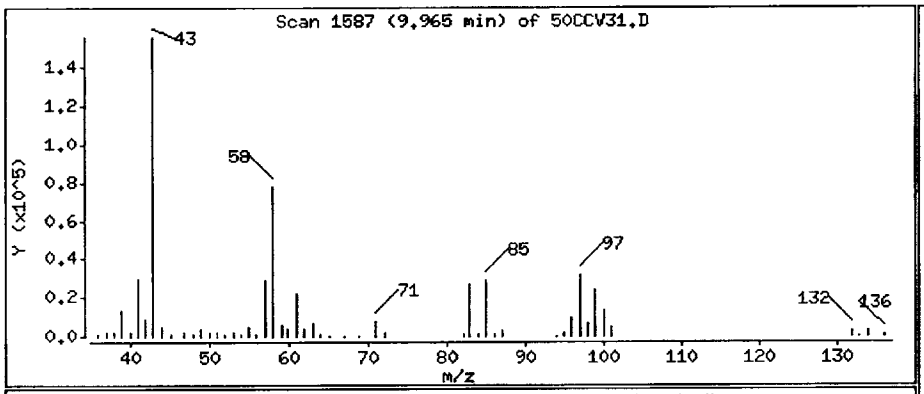
Client ID: 092502CCVA31 | Instrument: vms03.i

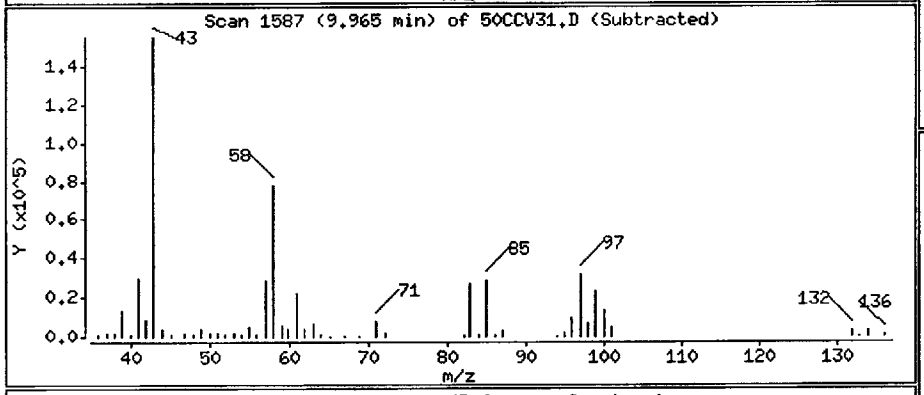
Sample Info: 092502CCVA31

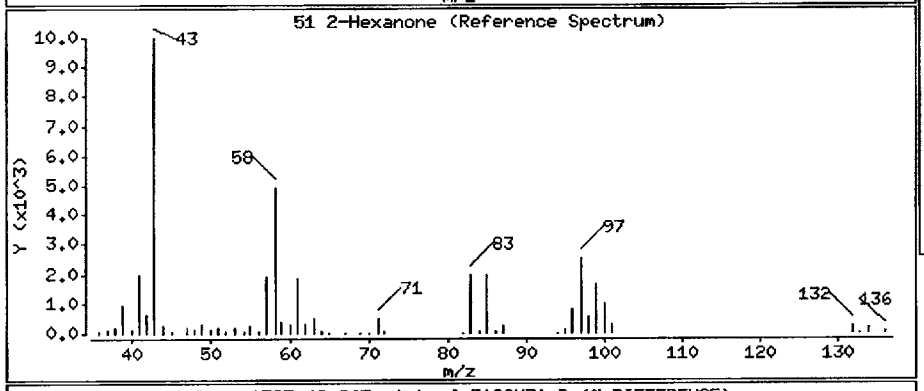
Purge Volume: 5.0 | Operator:

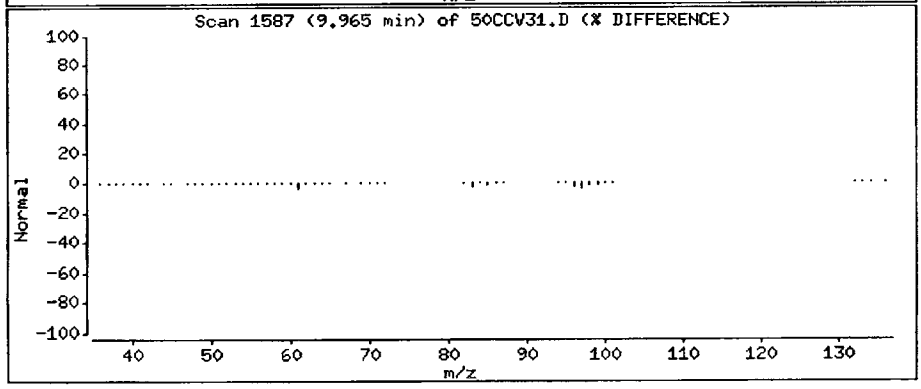
Column phase: DB-624 | Column diameter: 0.18

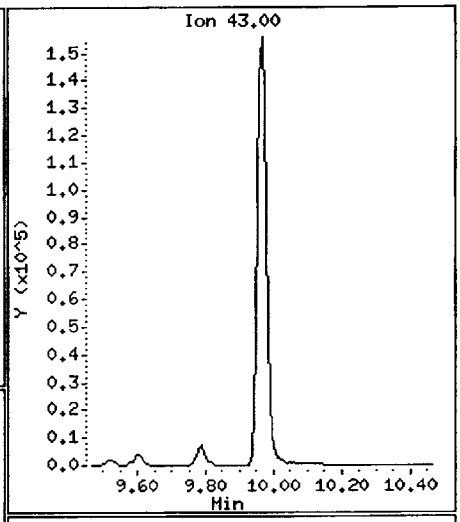
51 2-Hexanone | Concentration: 111 ug/l

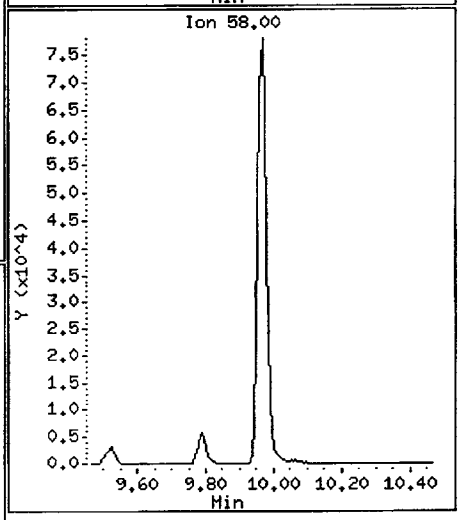












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\50CCV31.D

Date : 25-SEP-2002 06:02

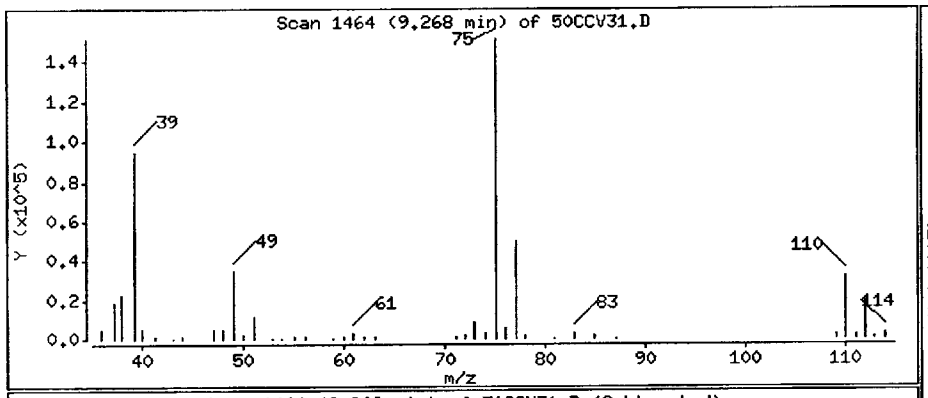
Client ID: 092502CCVA31 | Instrument: vms03.i

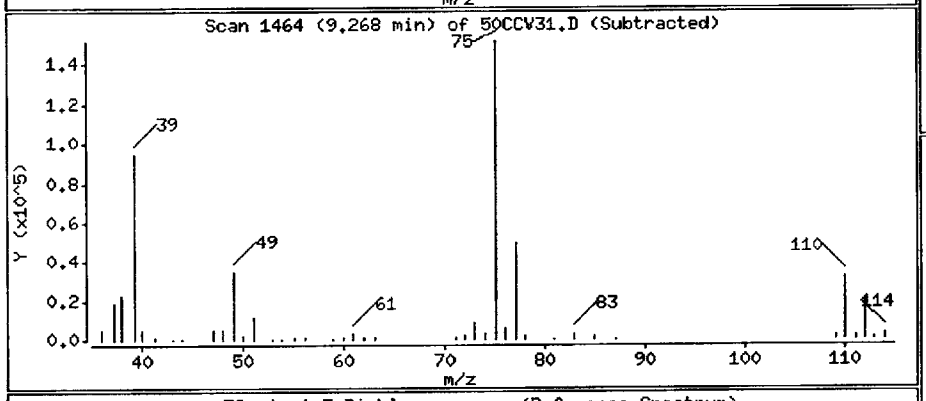
Sample Info: 092502CCVA31

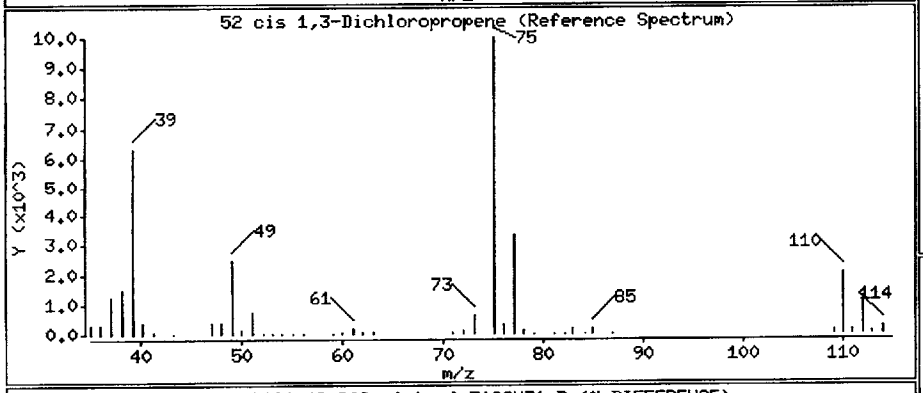
Purge Volume: 5.0 | Operator:

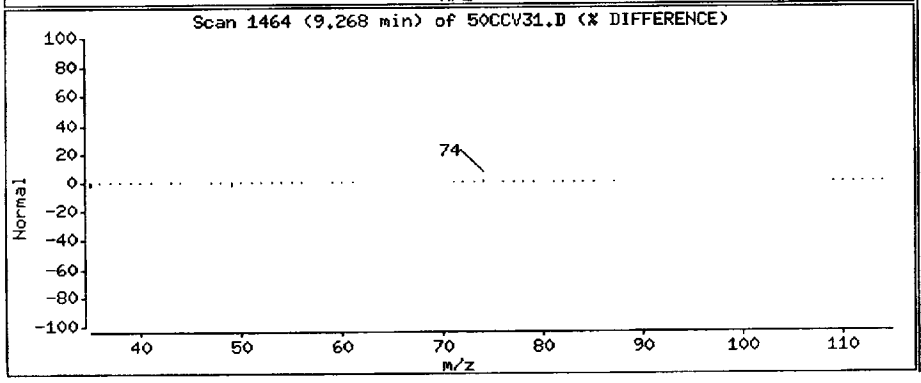
Column phase: DB-624 | Column diameter: 0.18

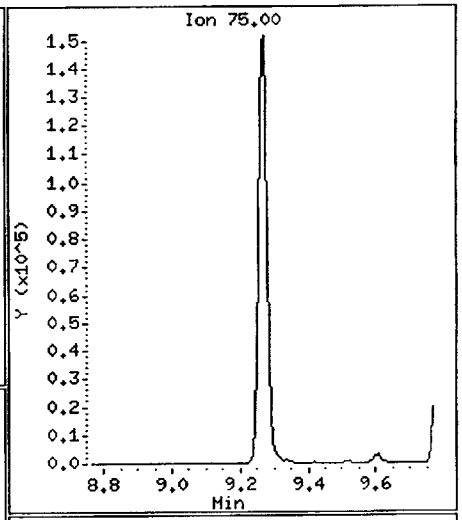
52 cis 1,3-Dichloropropene | Concentration: 54.7 ug/l

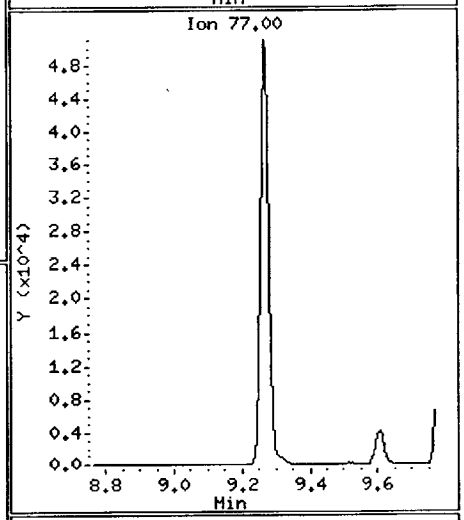


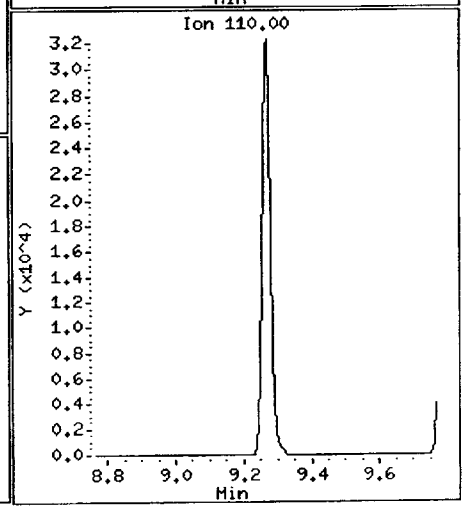












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\50CCV31.D

Date : 25-SEP-2002 06:02

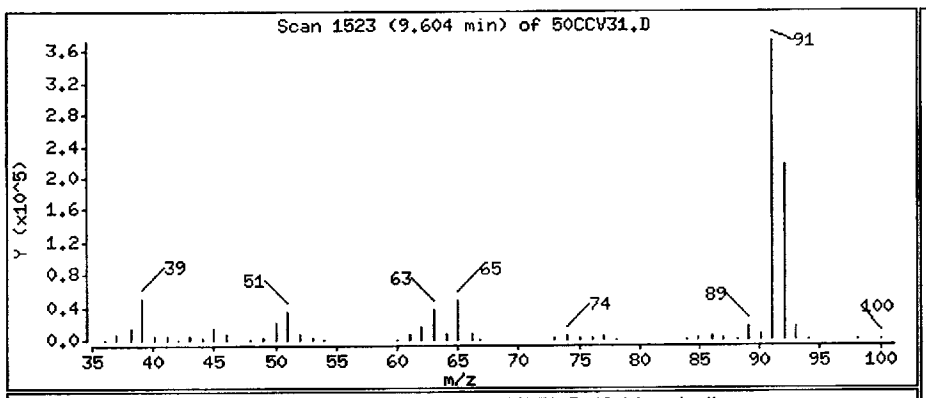
Client ID: 092502CCVA31 | Instrument: vms03.i

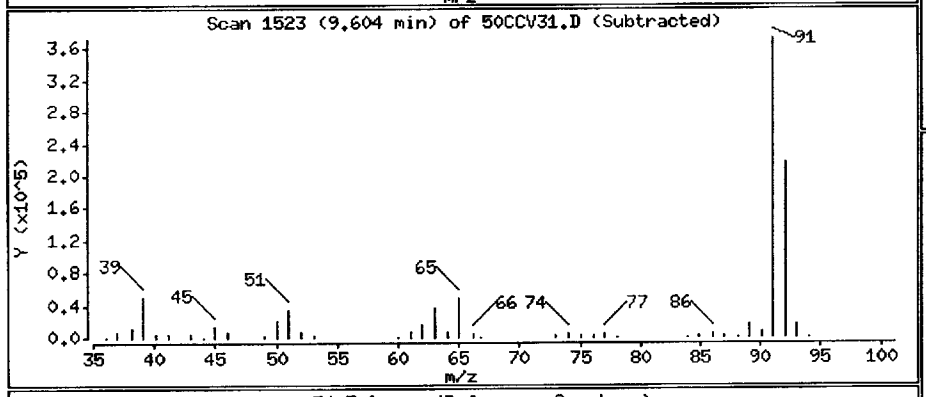
Sample Info: 092502CCVA31

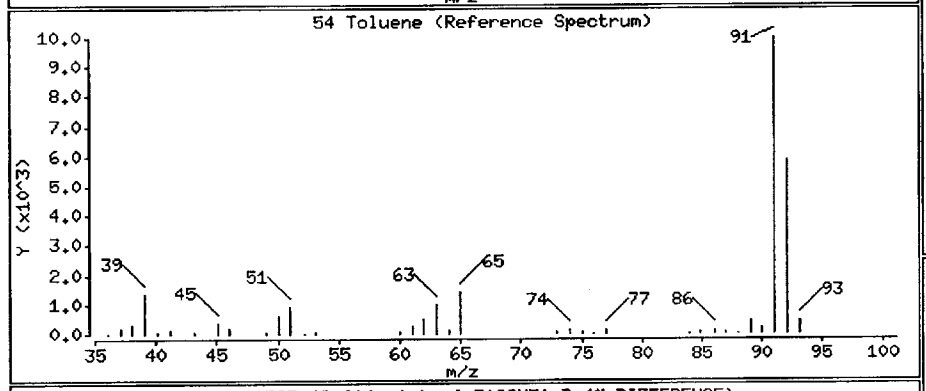
Purge Volume: 5.0 | Operator:

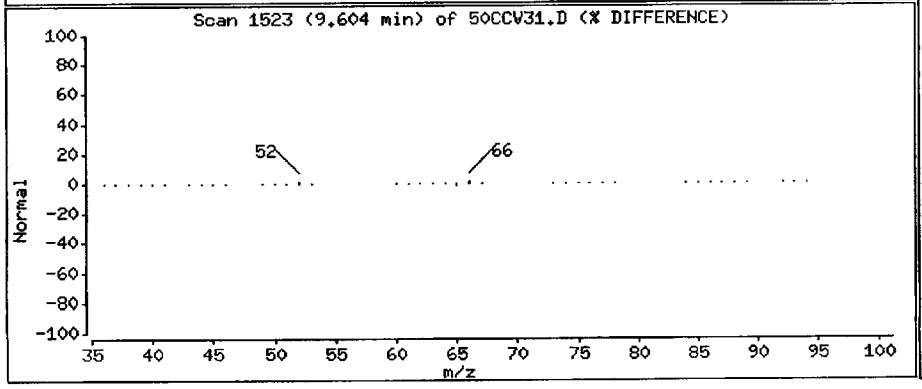
Column phase: DB-624 | Column diameter: 0.18

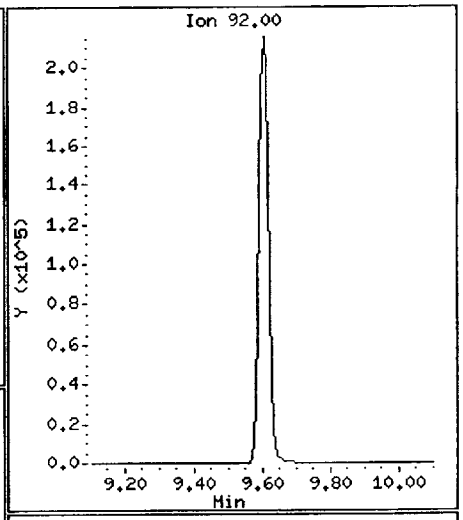
54 Toluene | Concentration: 51.6 ug/l

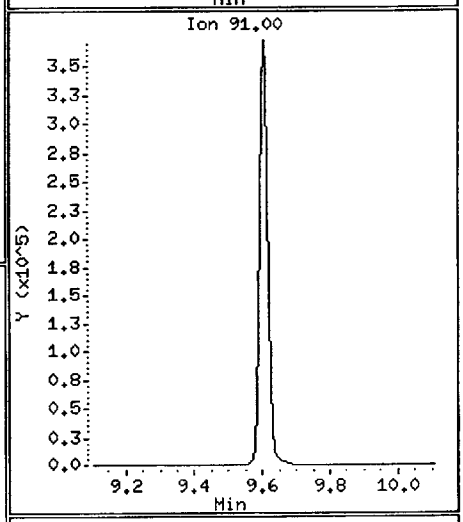


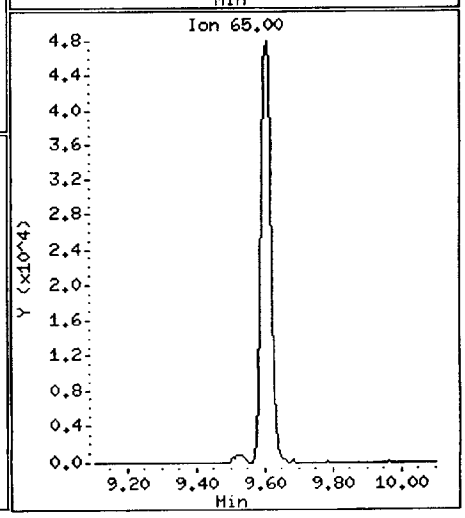












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\50CCV31.D

Date : 25-SEP-2002 06:02

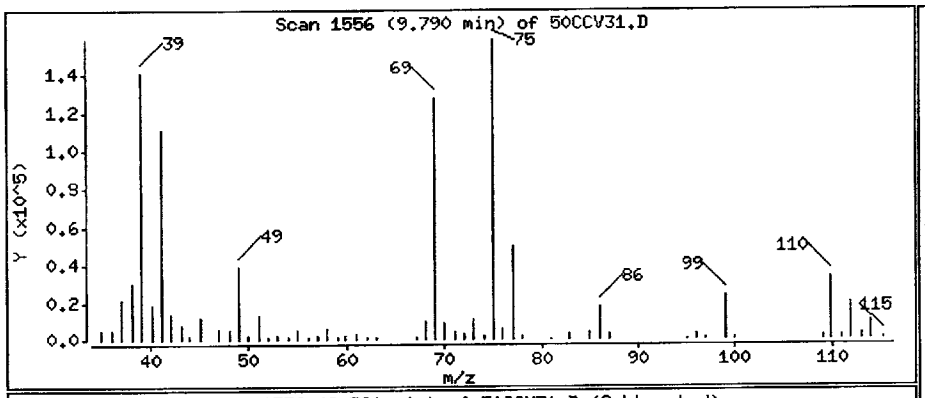
Client ID: 092502CCVA31 Instrument: vms03.i

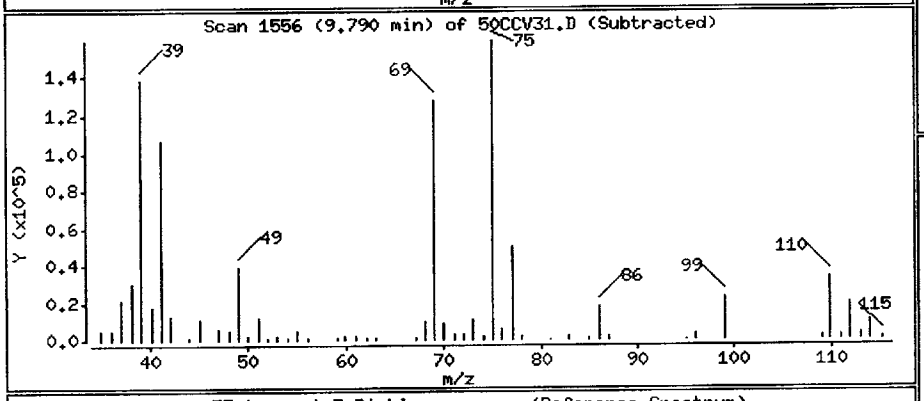
Sample Info: 092502CCVA31

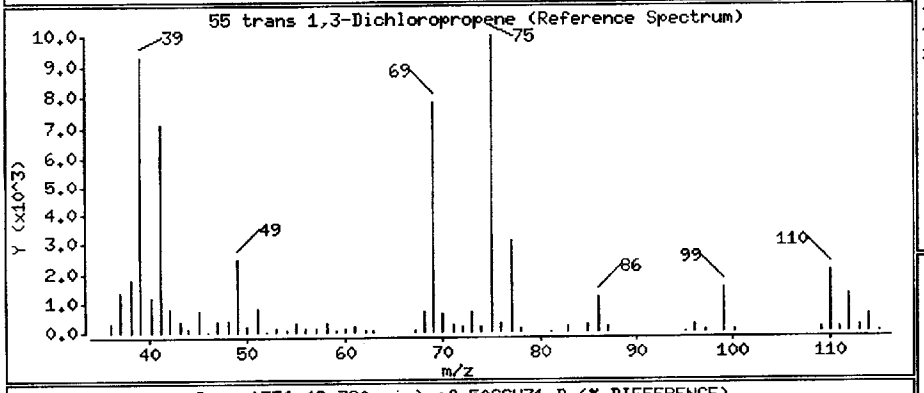
Purge Volume: 5.0 Operator:

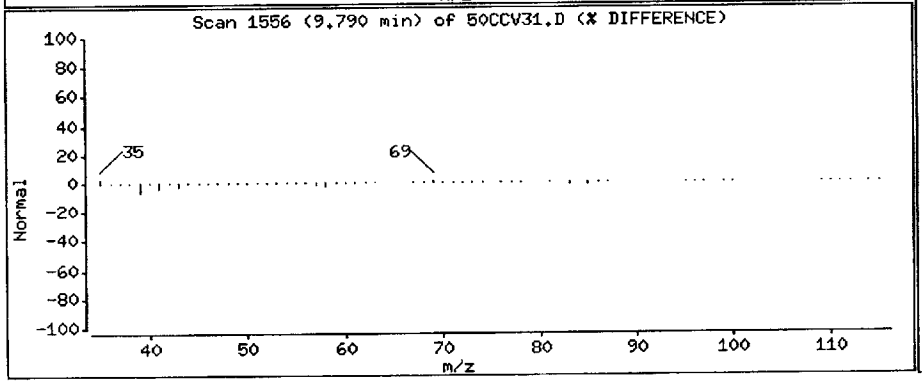
Column phase: DB-624 Column diameter: 0.18

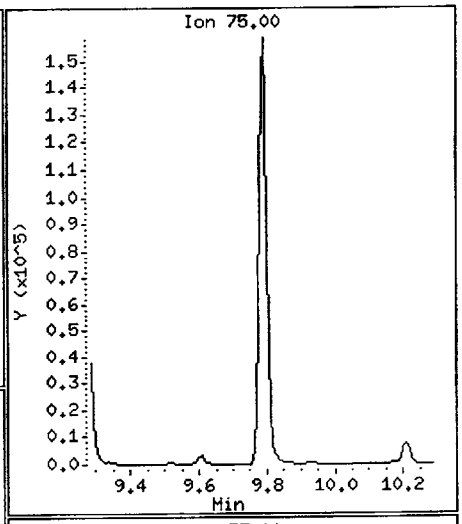
55 trans 1,3-Dichloropropene Concentration: 56.0 ug/l

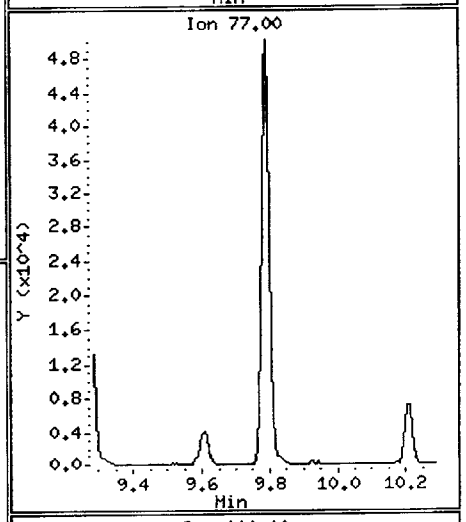


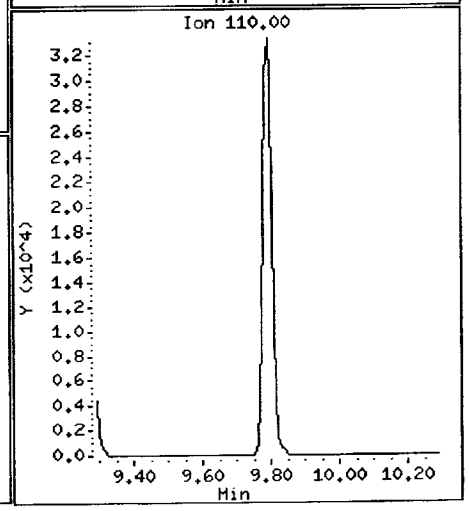












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\50CCV31.D

Date : 25-SEP-2002 06:02

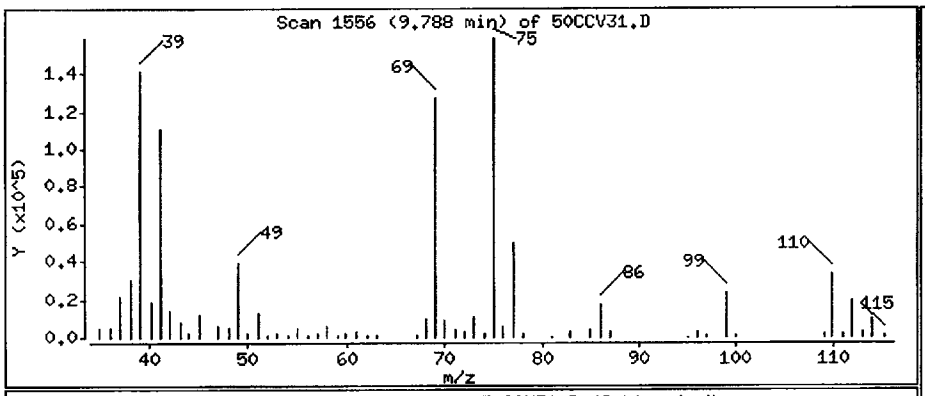
Client ID: 092502CCVA31 | Instrument: vms03.i

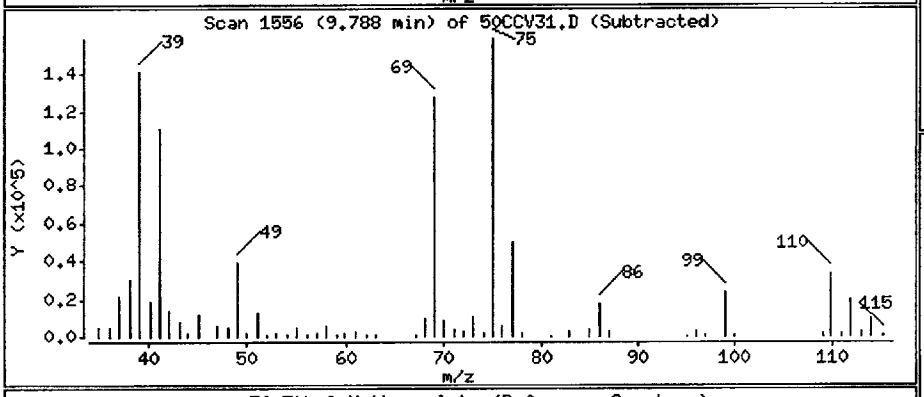
Sample Info: 092502CCVA31

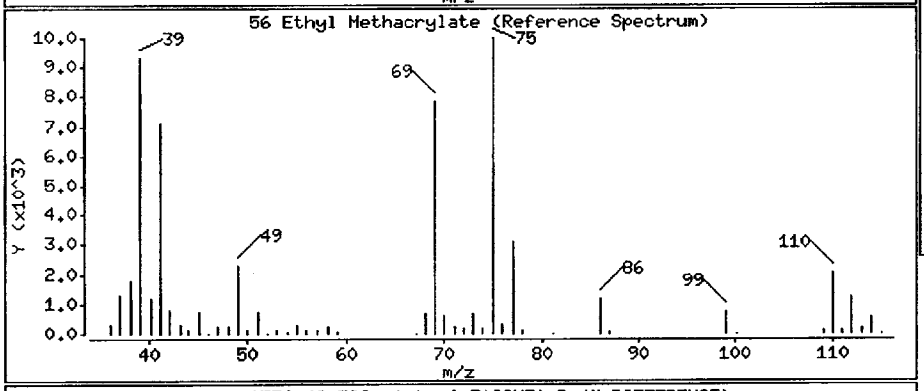
Purge Volume: 5.0 | Operator:

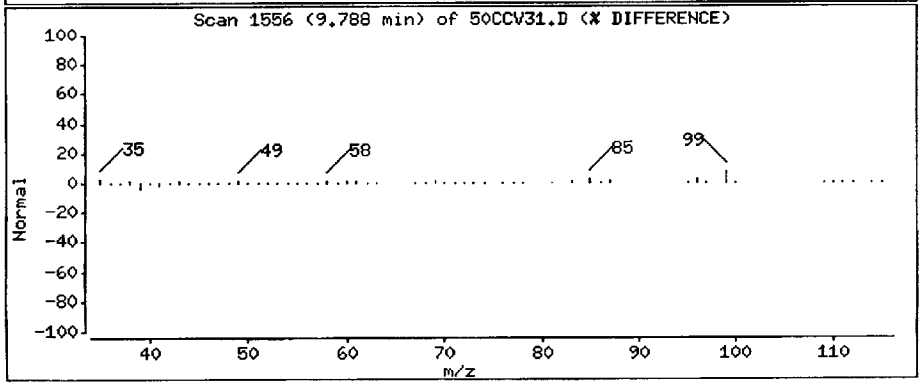
Column phase: DB-624 | Column diameter: 0.18

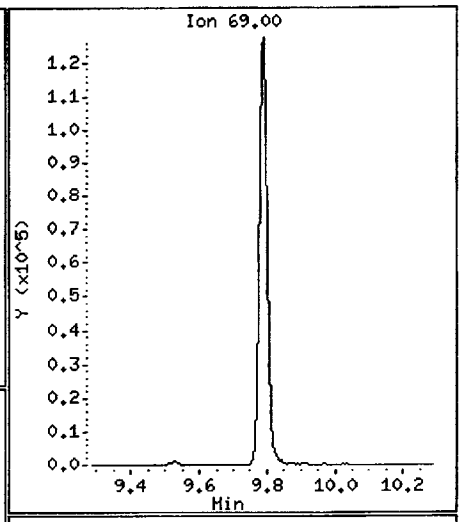
56 Ethyl Methacrylate | Concentration: 54.8 ug/l

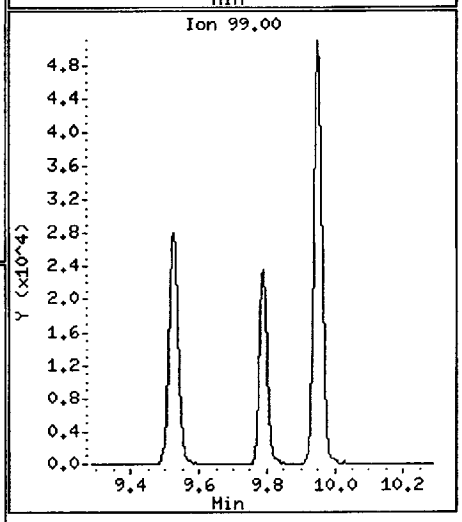












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\50CCV31.D

Date : 25-SEP-2002 06:02

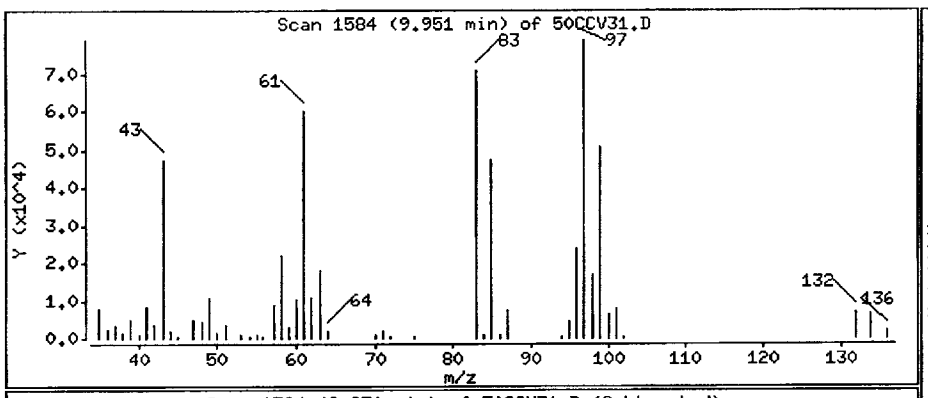
Client ID: 092502CCVA31 | Instrument: vms03.i

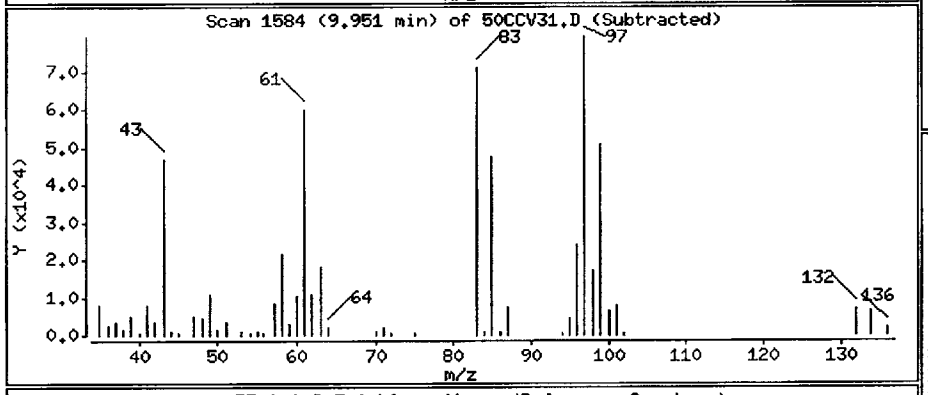
Sample Info: 092502CCVA31

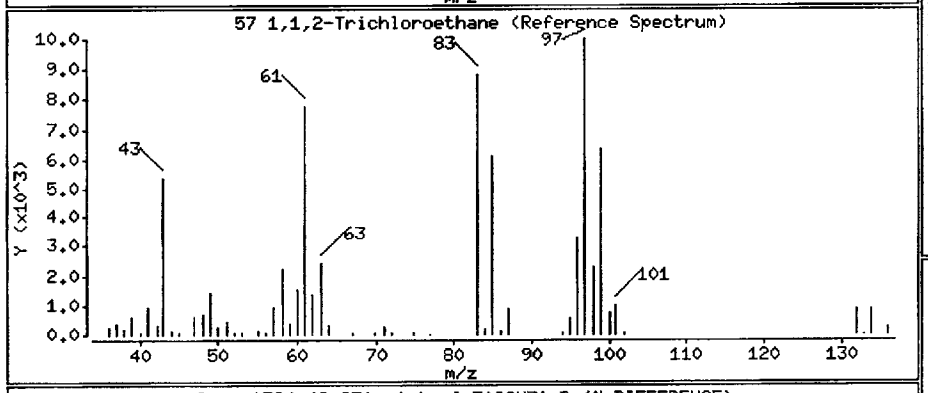
Purge Volume: 5.0 | Operator:

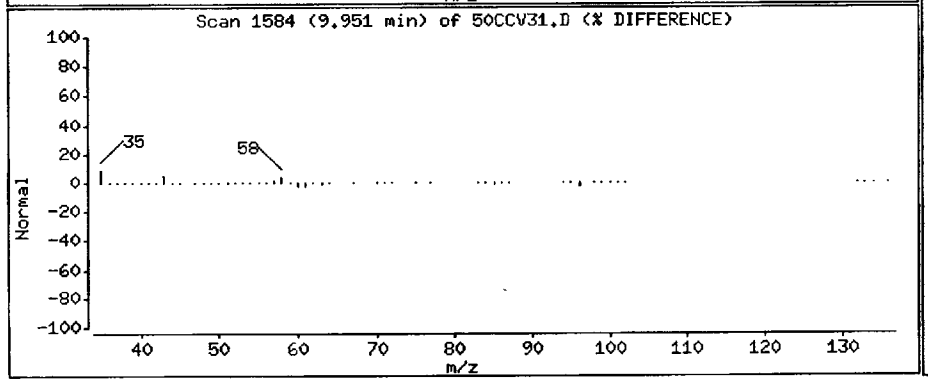
Column phase: DB-624 | Column diameter: 0.18

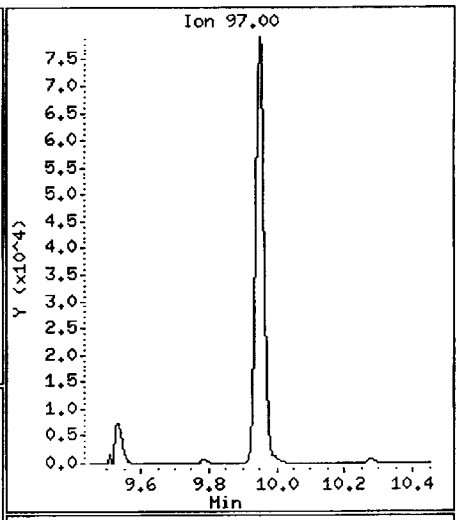
57 1,1,2-Trichloroethane | Concentration: 52.4 ug/l

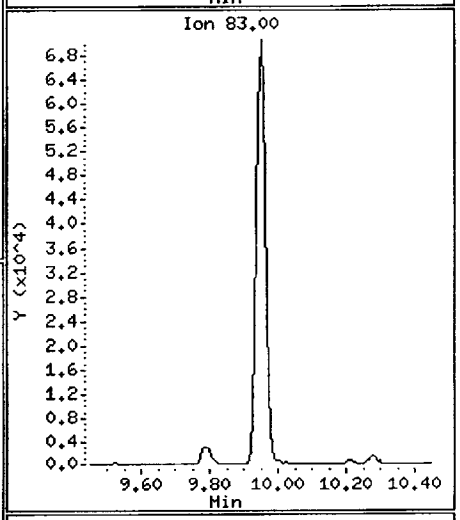


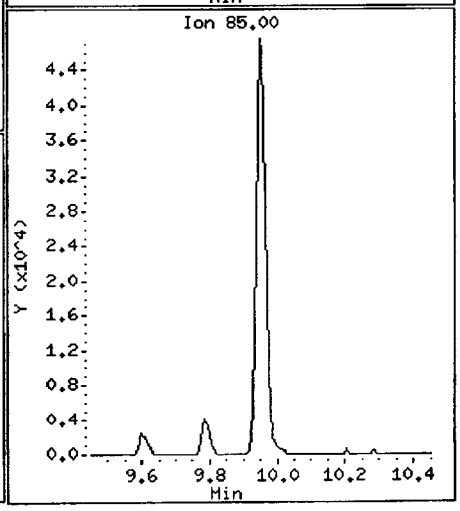












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\50CCV31.D

Date : 25-SEP-2002 06:02

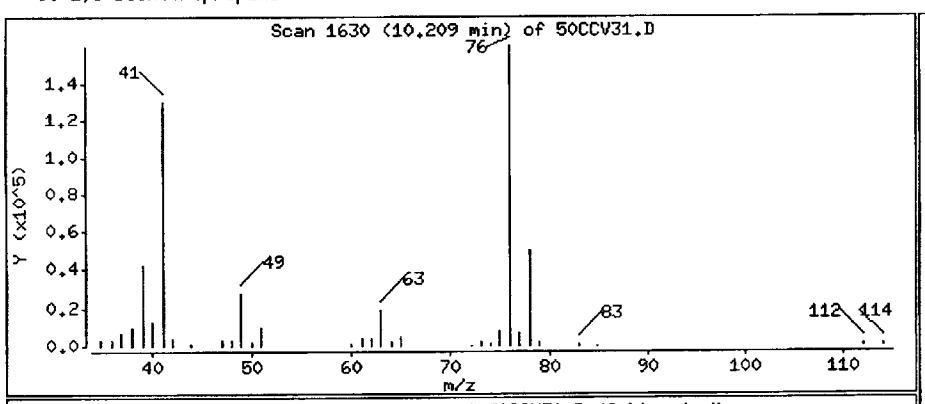
Client ID: 092502CCVA31 | Instrument: vms03.i

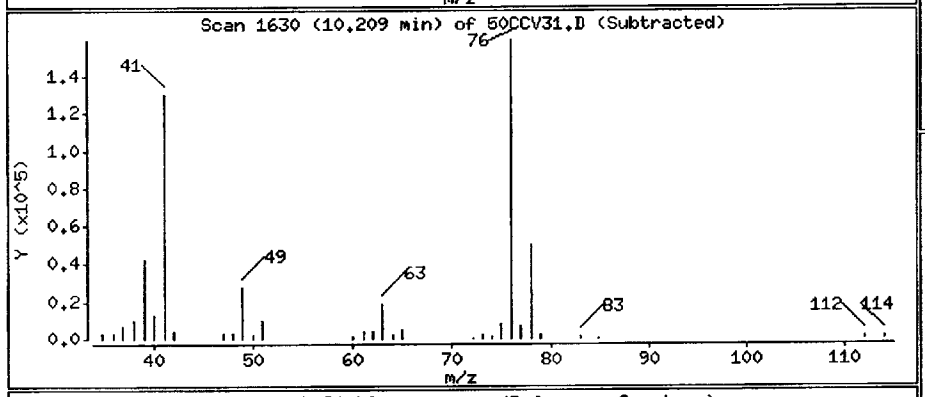
Sample Info: 092502CCVA31

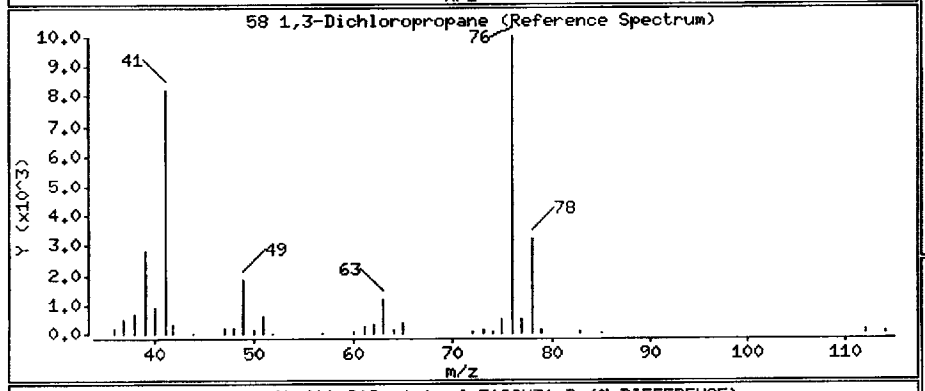
Purge Volume: 5.0 | Operator:

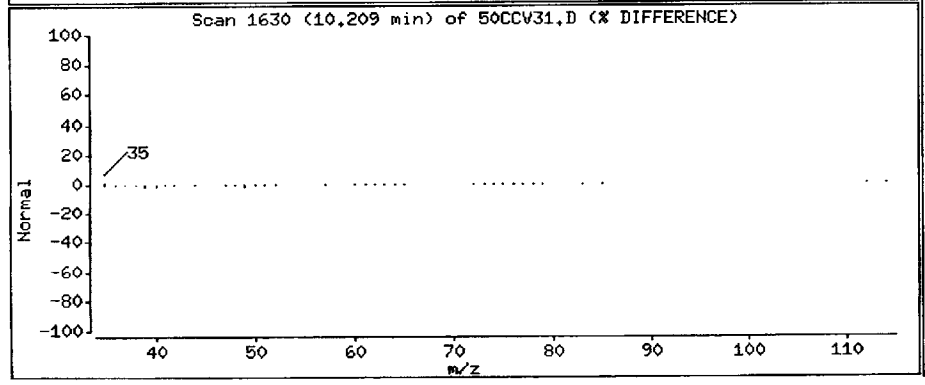
Column phase: DB-624 | Column diameter: 0.18

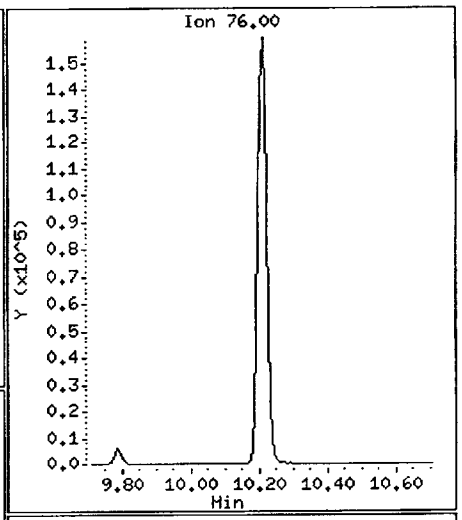
58 1,3-Dichloropropane | Concentration: 51.5 ug/l

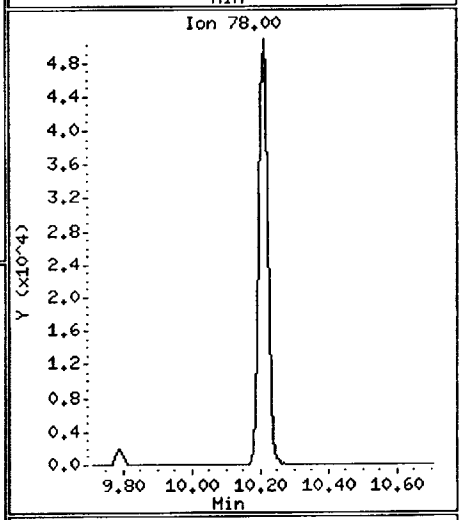


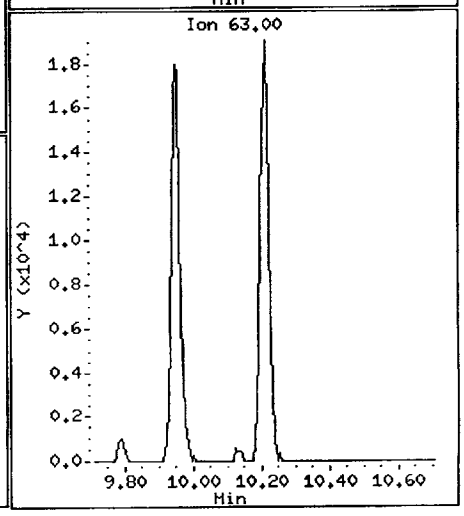












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\50CCV31.D

Date : 25-SEP-2002 06:02

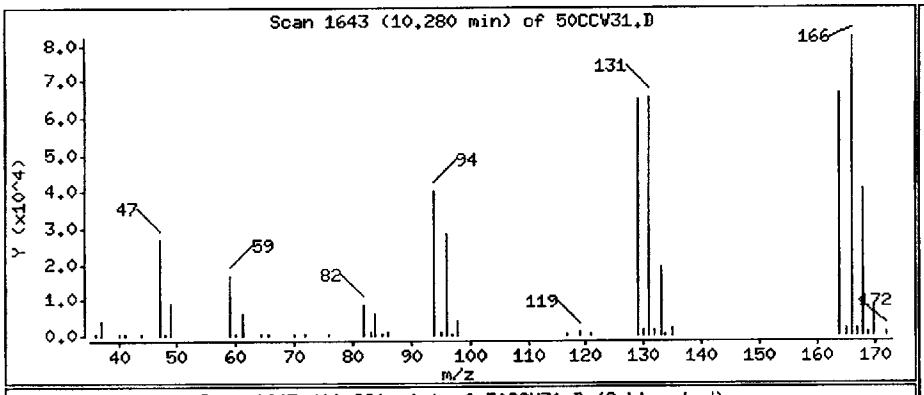
Client ID: 092502CCVA31 | Instrument: vms03.i

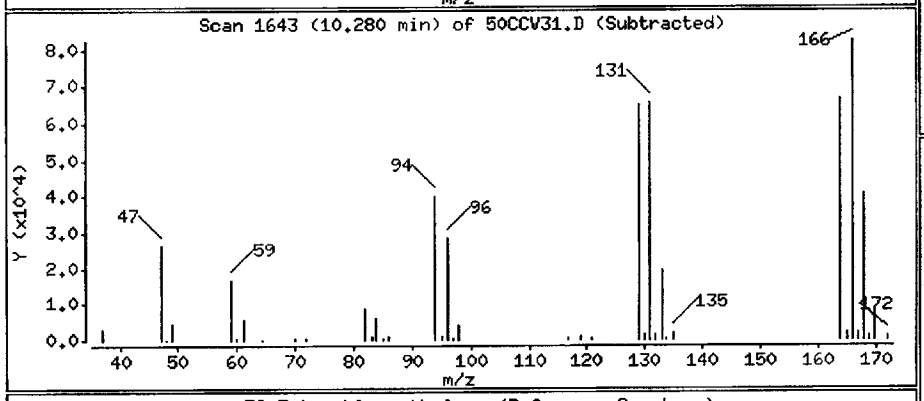
Sample Info: 092502CCVA31

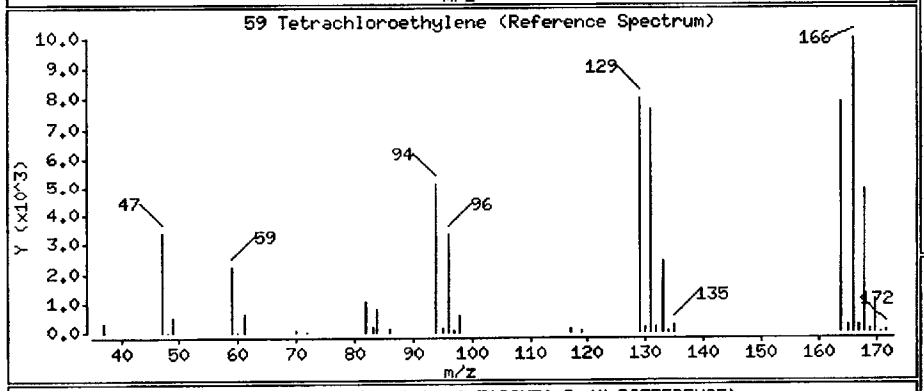
Purge Volume: 5.0 | Operator:

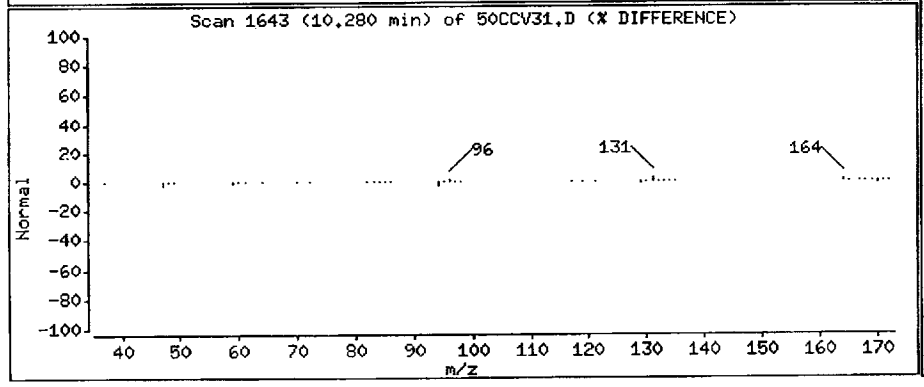
Column phase: DB-624 | Column diameter: 0.18

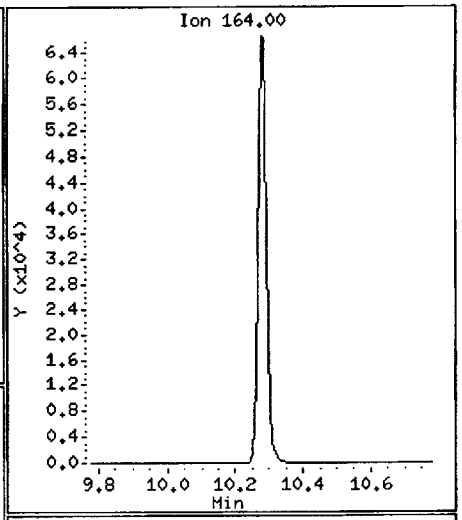
59 Tetrachloroethylene | Concentration: 51.3 ug/l

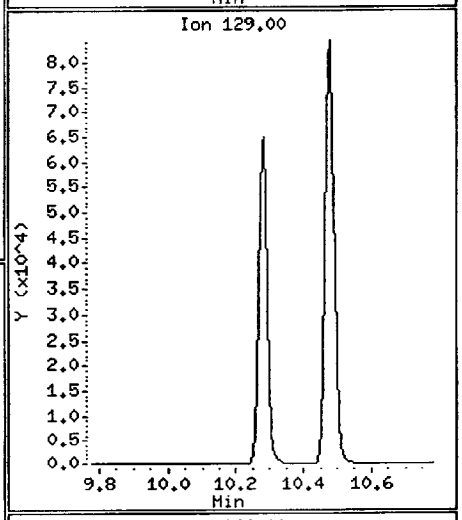


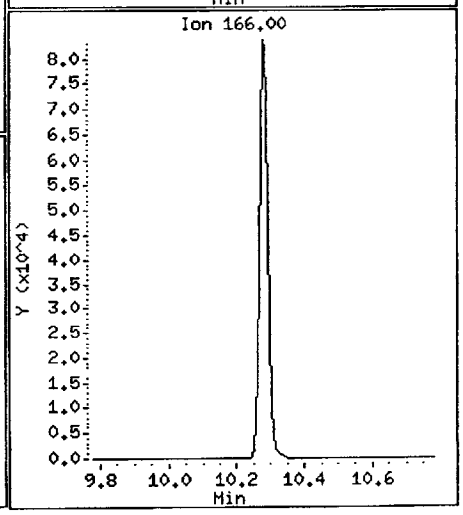












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\50CCV31.D

Date : 25-SEP-2002 06:02

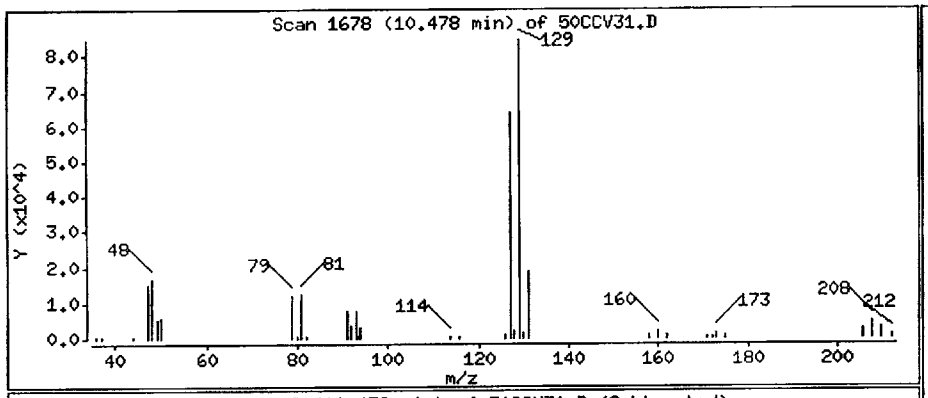
Client ID: 092502CCVA31 | Instrument: vms03.i

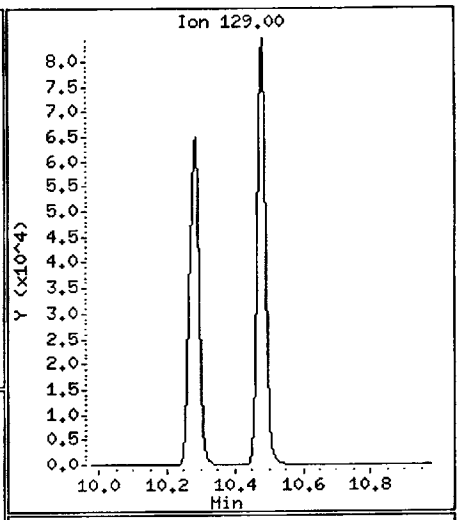
Sample Info: 092502CCVA31

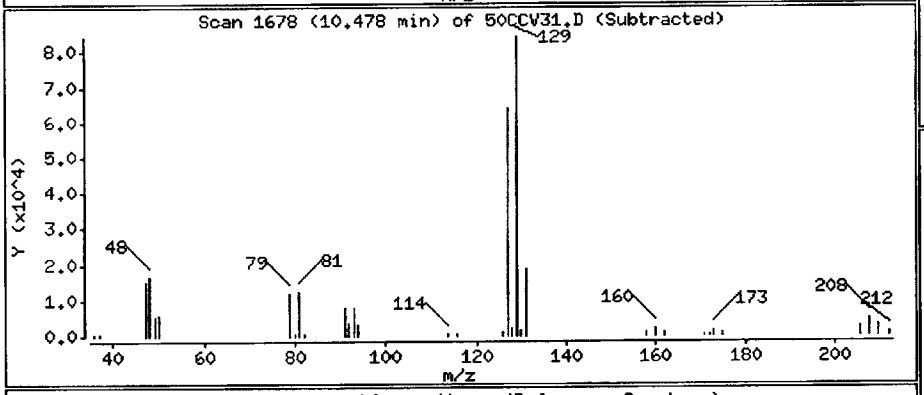
Purge Volume: 5.0 | Operator:

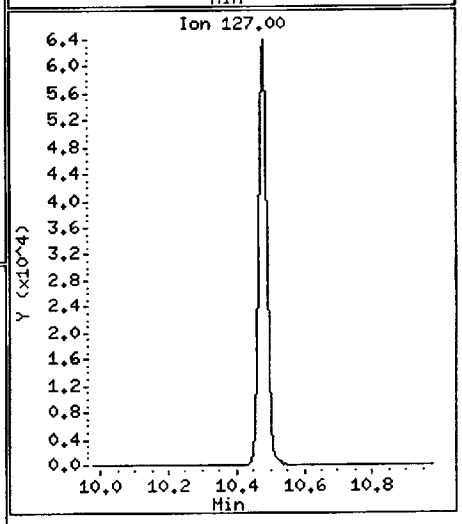
Column phase: DB-624 | Column diameter: 0.18

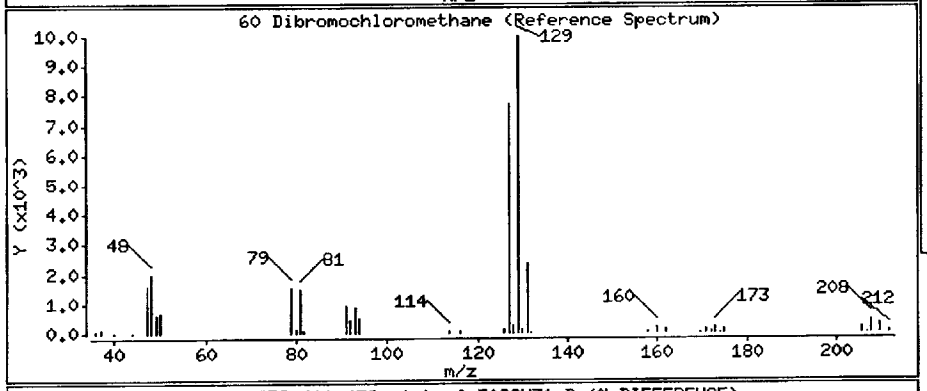
60 Dibromochloromethane | Concentration: 55.9 ug/l

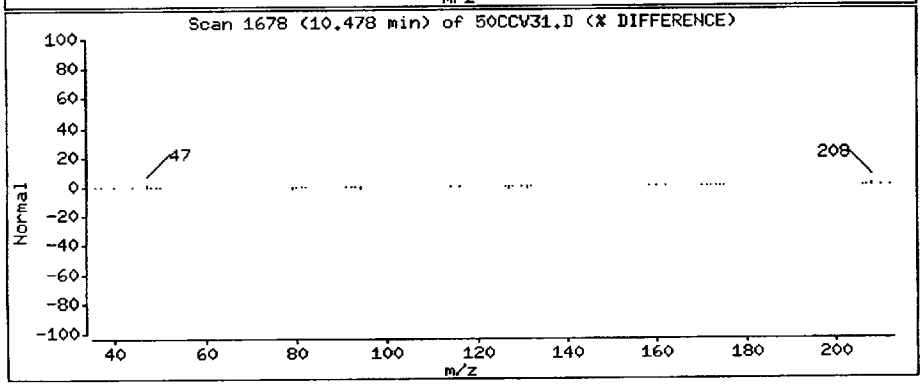












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\50CCV31.D

Date : 25-SEP-2002 06:02

Client ID: 092502CCVA31

Instrument: vms03.i

Sample Info: 092502CCVA31

Purge Volume: 5.0

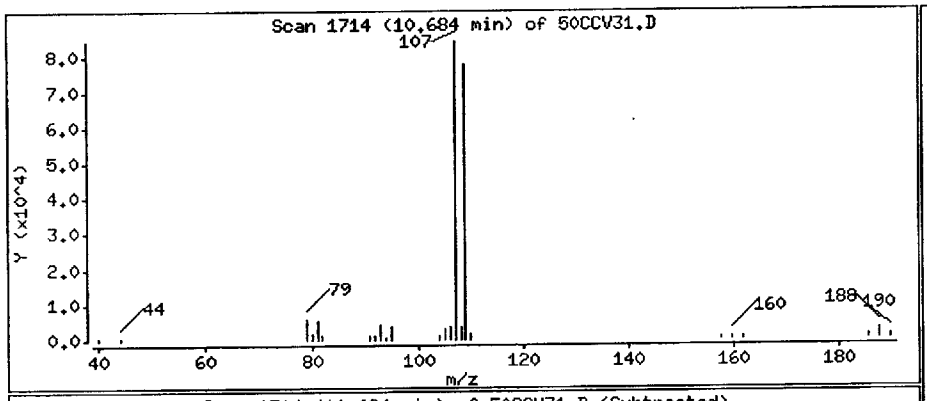
Operator:

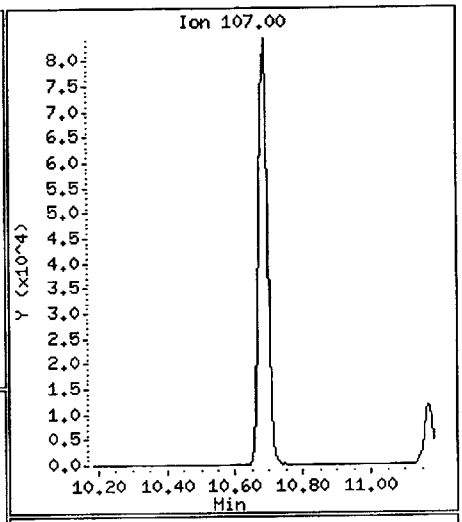
Column phase: DB-624

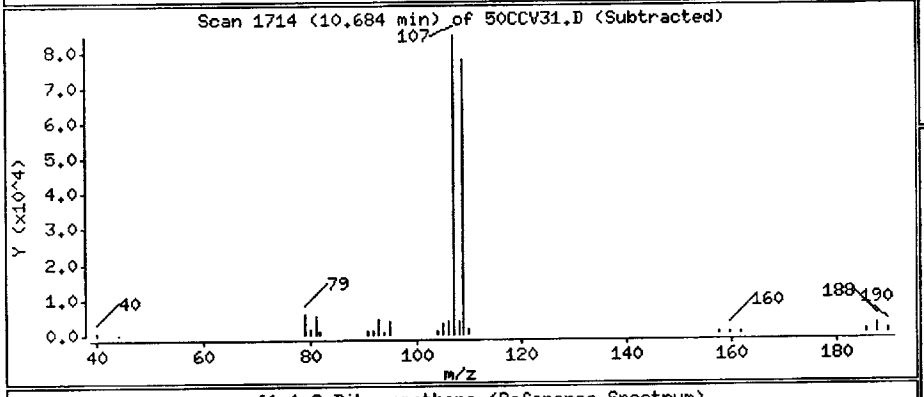
Column diameter: 0.18

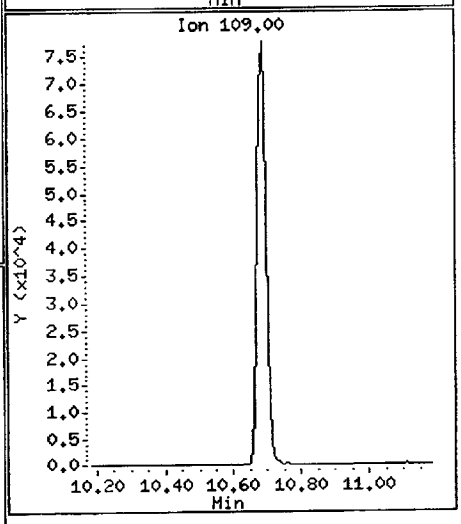
61 1,2-Dibromoethane

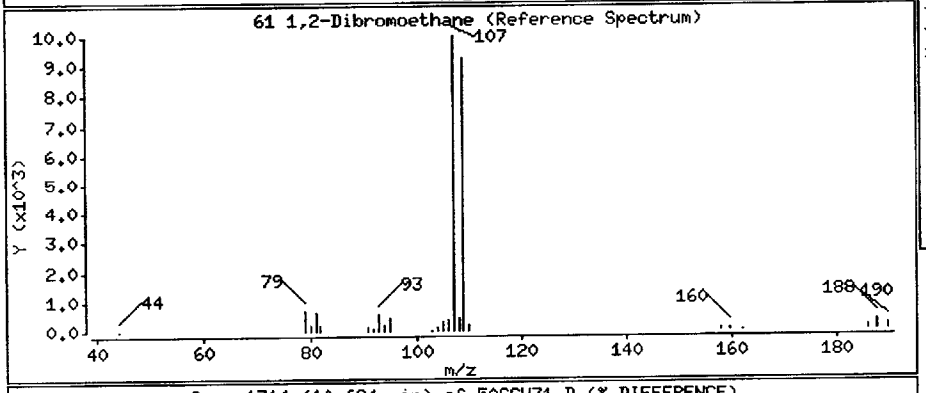
Concentration: 52.4 ug/l

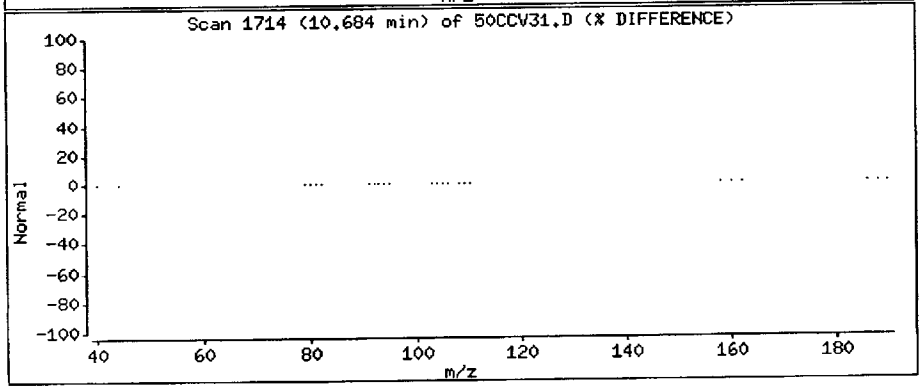












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\50CCV31.D

Date : 25-SEP-2002 06:02

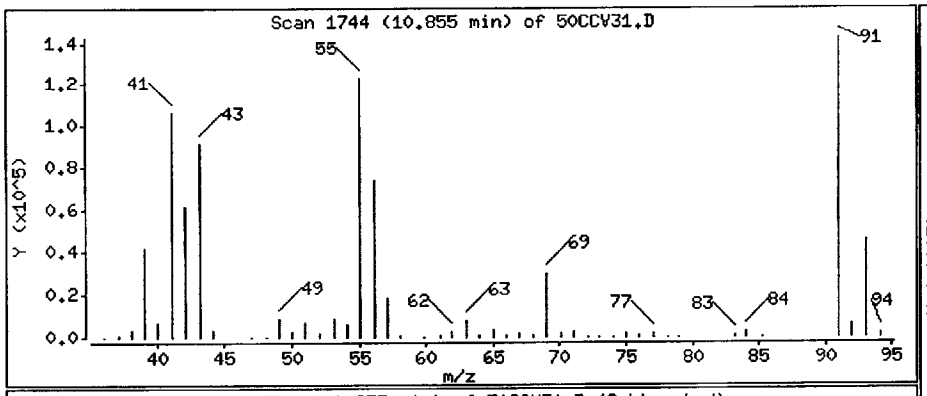
Client ID: 092502CCVA31 | Instrument: vms03.i

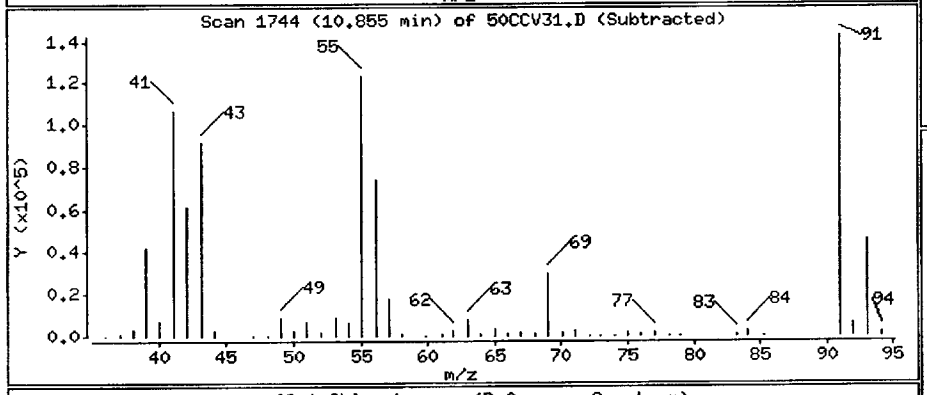
Sample Info: 092502CCVA31

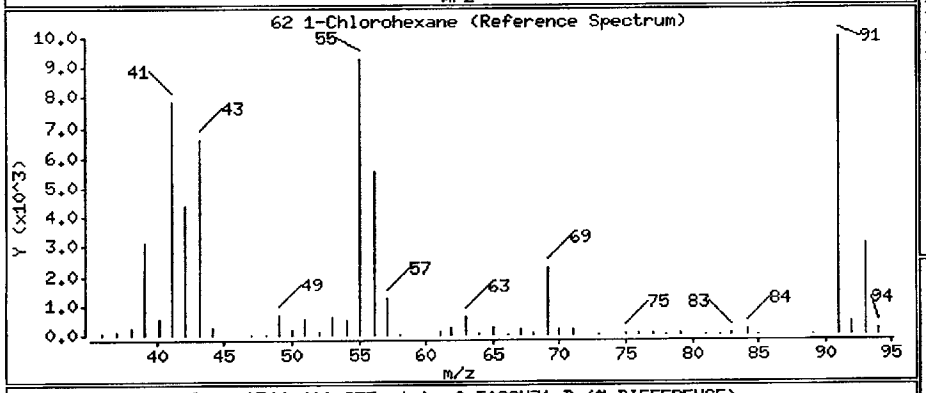
Purge Volume: 5.0 | Operator:

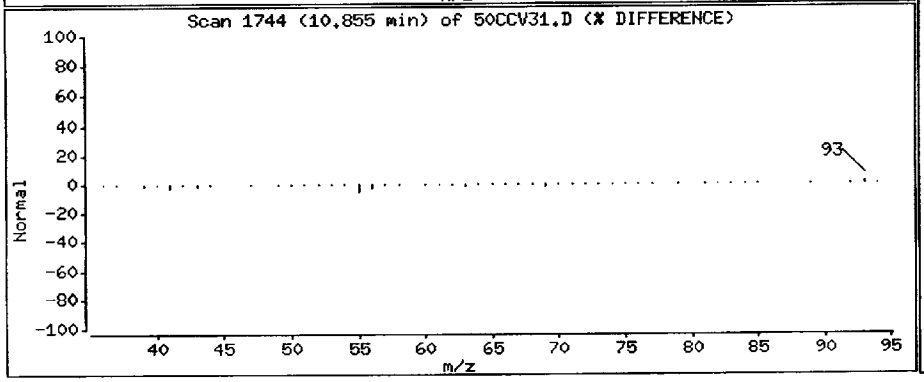
Column phase: DB-624 | Column diameter: 0.18

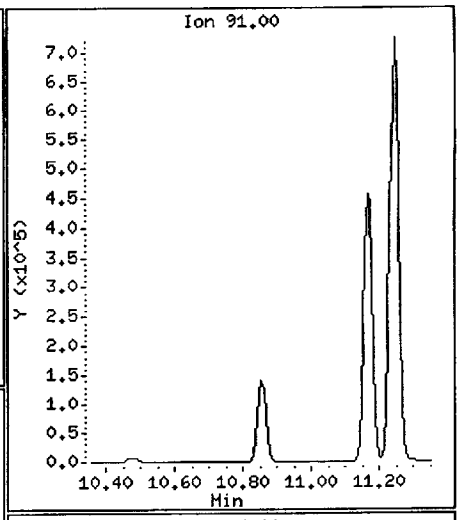
62 1-Chlorohexane | Concentration: 55.2 ug/l

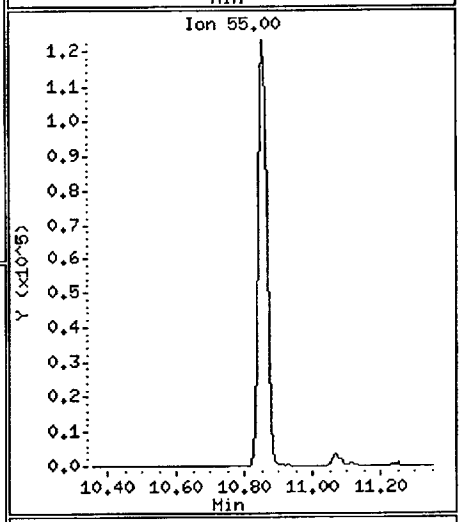


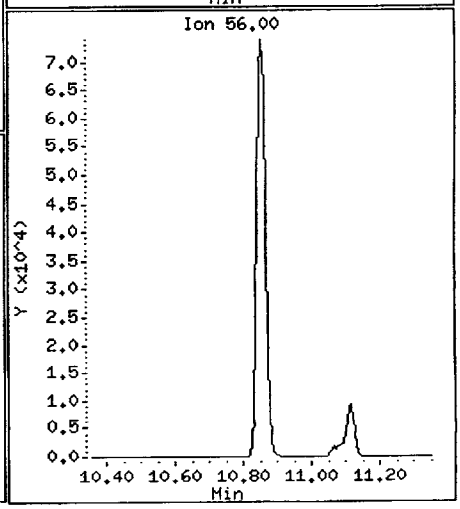












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\50CCV31.D

Date : 25-SEP-2002 06:02

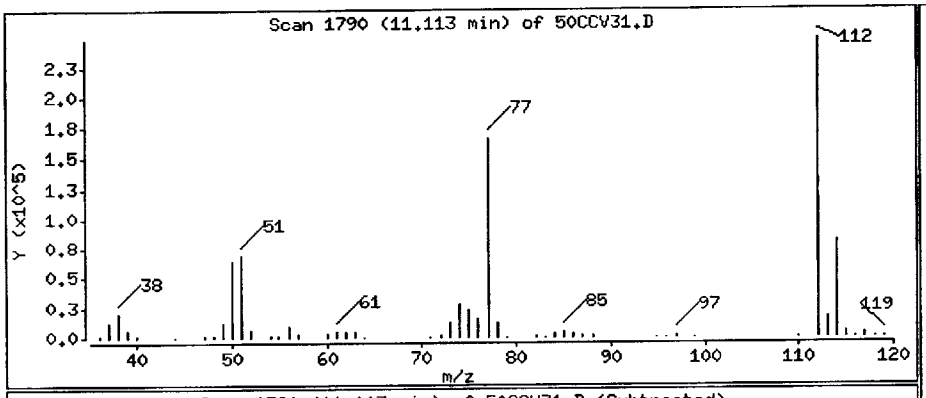
Client ID: 092502CCVA31 | Instrument: vms03.i

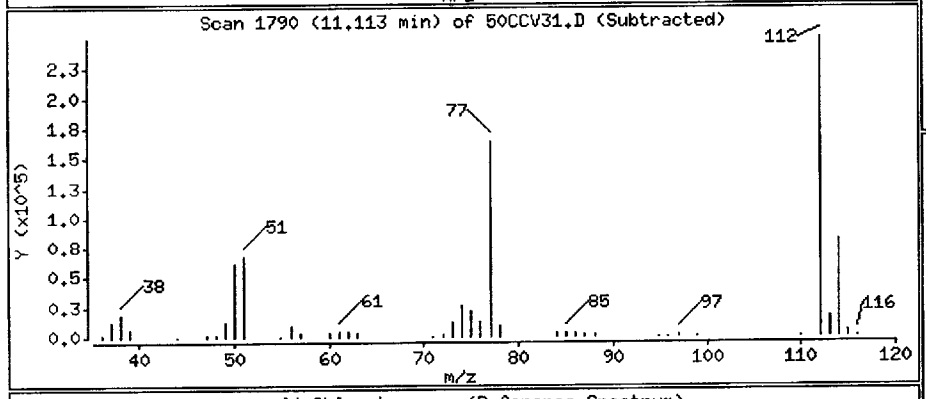
Sample Info: 092502CCVA31

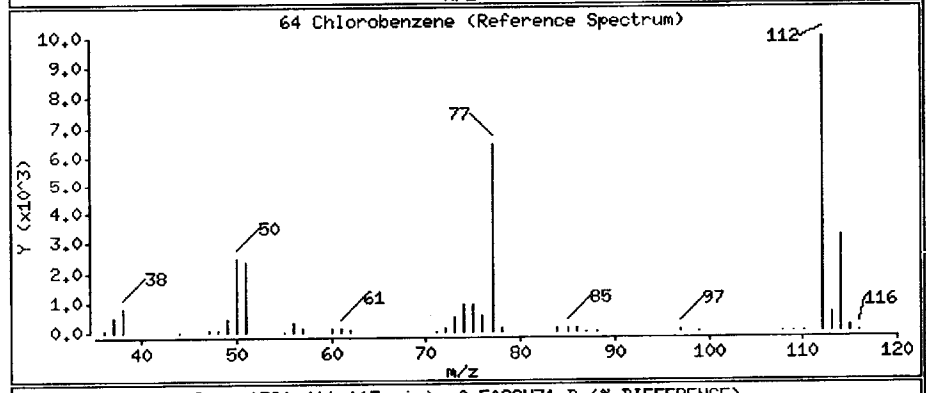
Purge Volume: 5.0 | Operator:

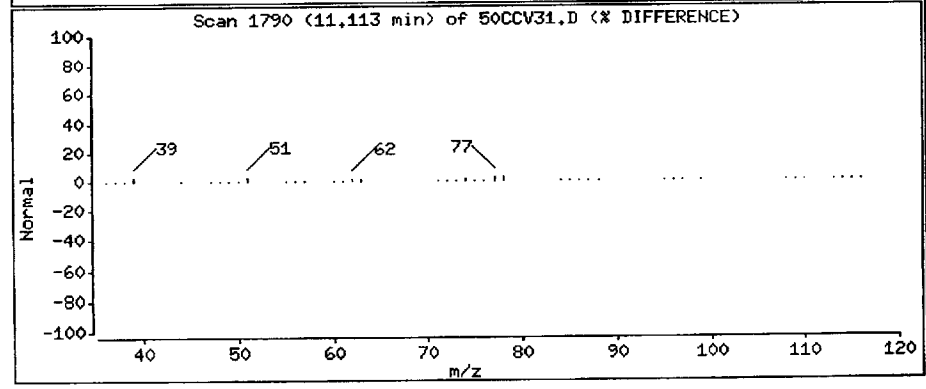
Column phase: DB-624 | Column diameter: 0.18

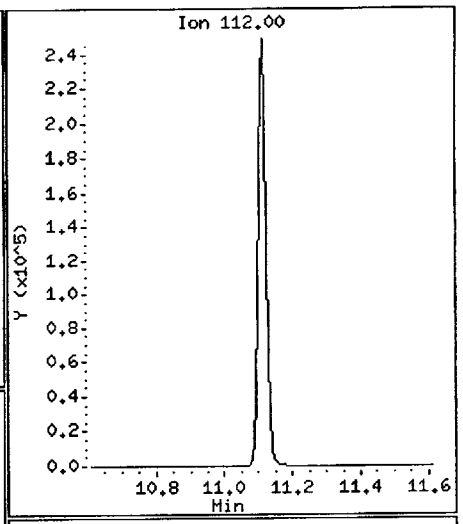
64 Chlorobenzene | Concentration: 51.4 ug/l

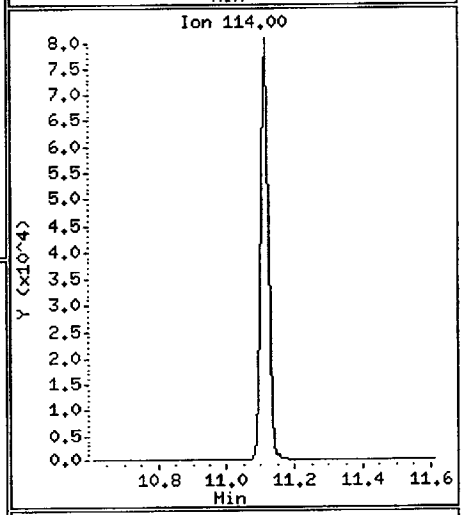


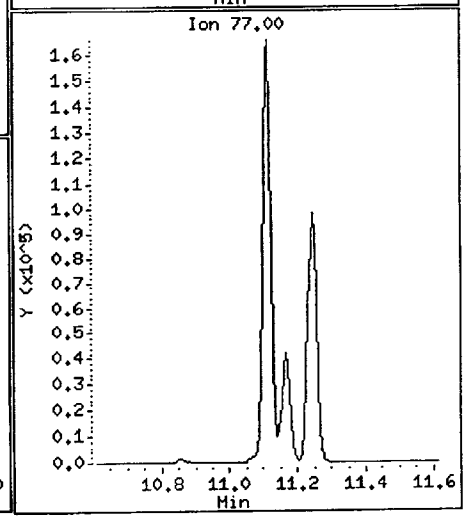












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\50CCV31.D

Date : 25-SEP-2002 06:02

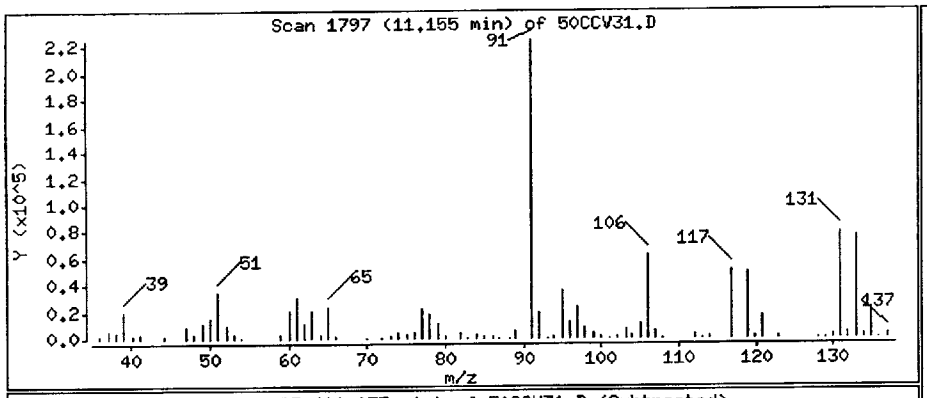
Client ID: 092502CCVA31 | Instrument: vms03.i

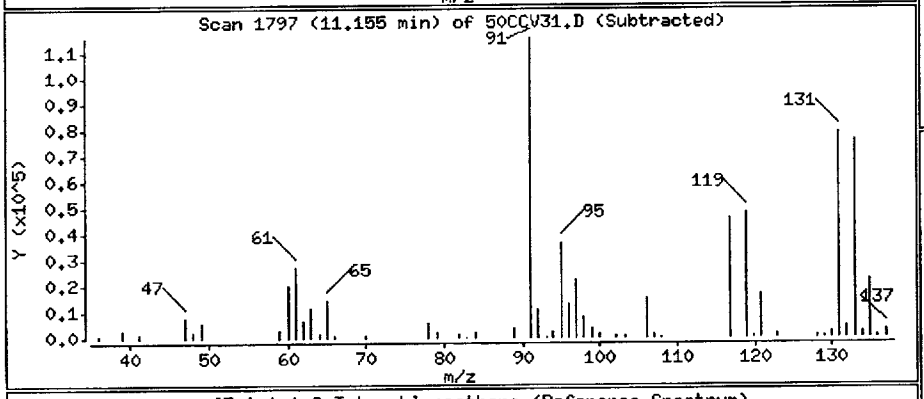
Sample Info: 092502CCVA31

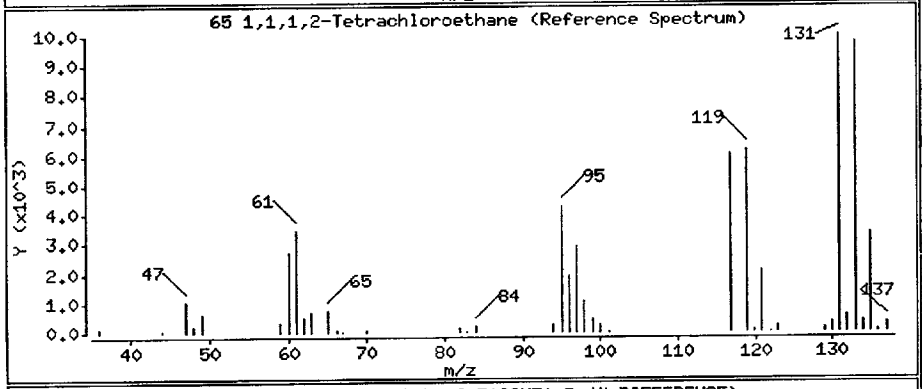
Purge Volume: 5.0 | Operator:

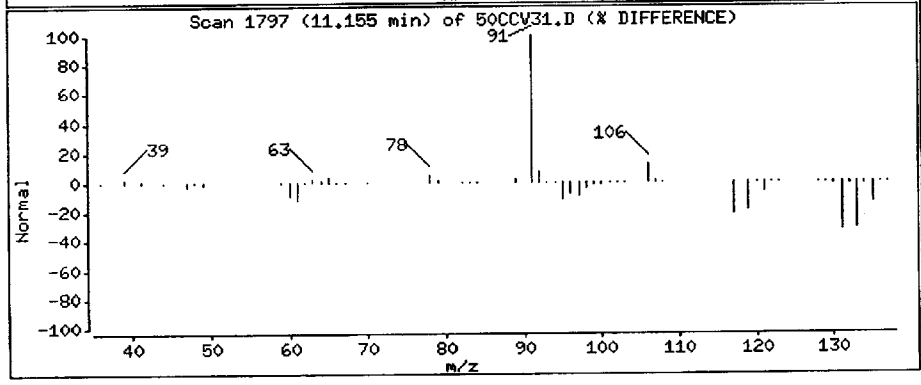
Column phase: DB-624 | Column diameter: 0.18

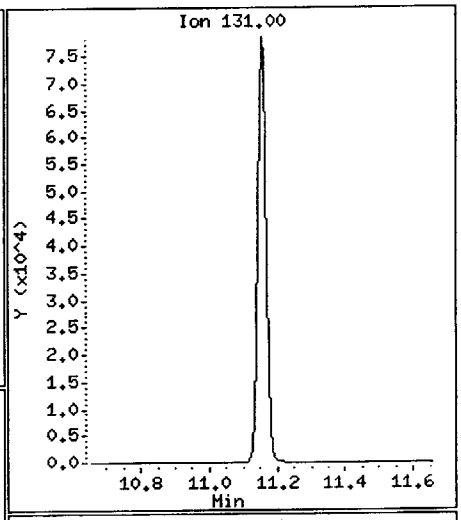
65 1,1,1,2-Tetrachloroethane | Concentration: 54.6 ug/l

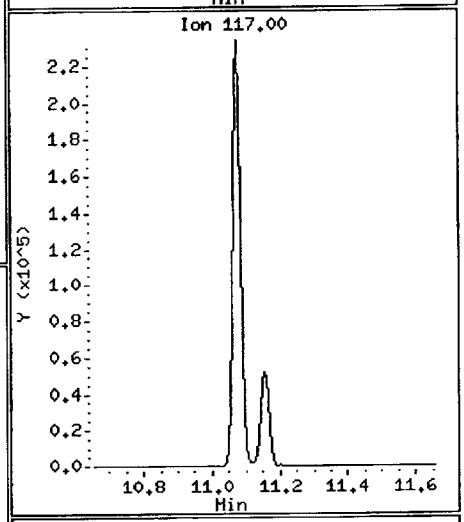


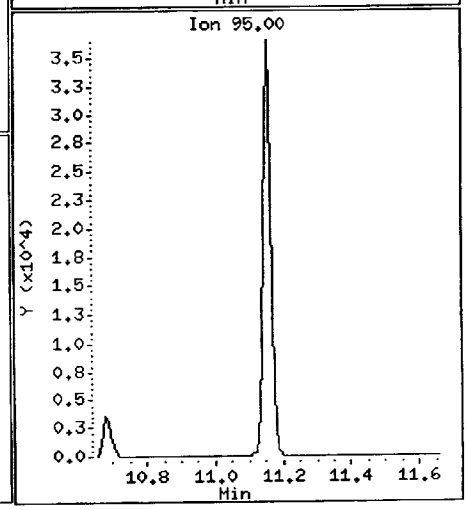












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\50CCV31.D

Date : 25-SEP-2002 06:02

Client ID: 092502CCVA31

Instrument: vms03.i

Sample Info: 092502CCVA31

Purge Volume: 5.0

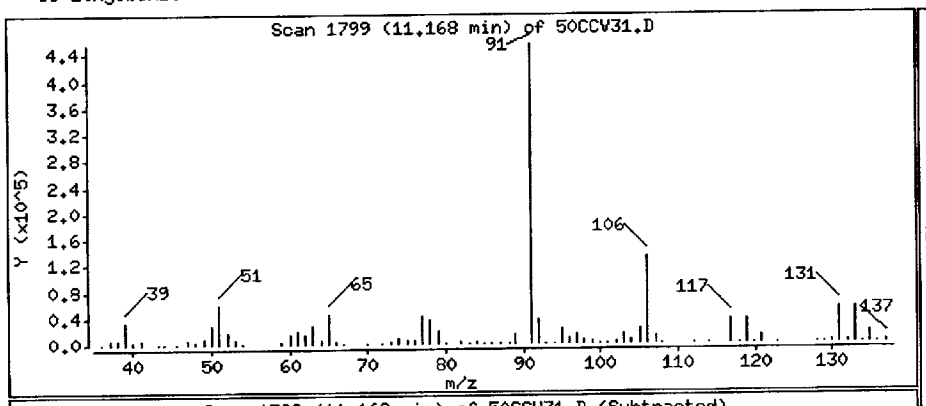
Operator:

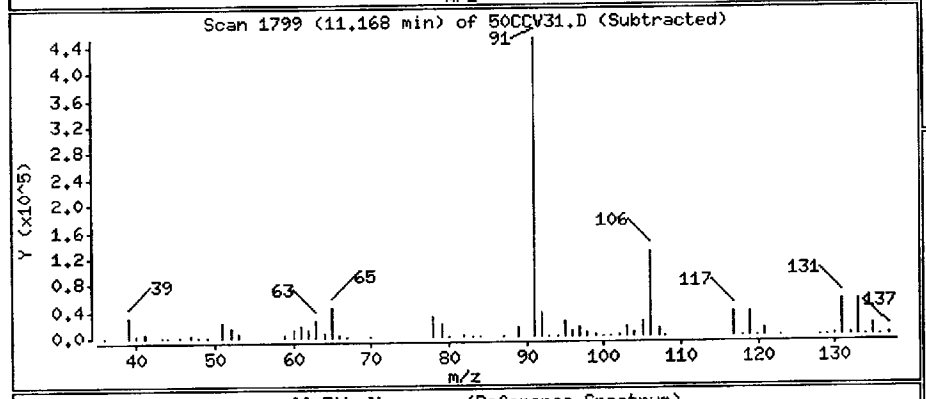
Column phase: DB-624

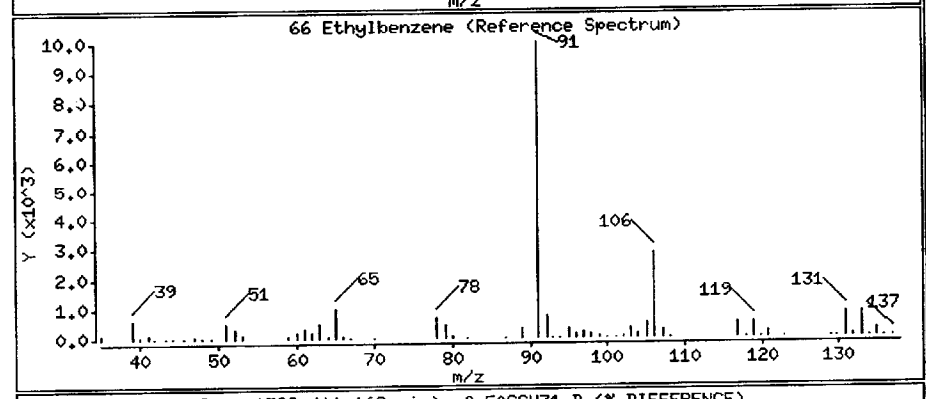
Column diameter: 0.18

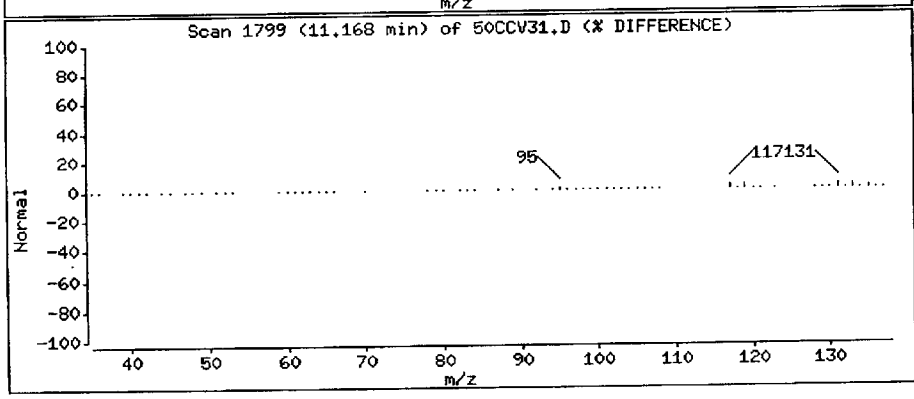
66 Ethylbenzene

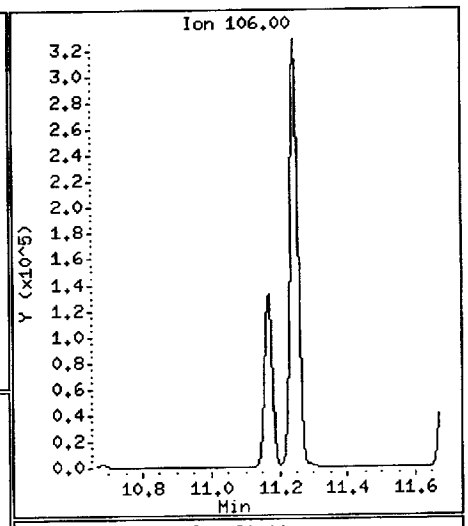
Concentration: 51.0 ug/l

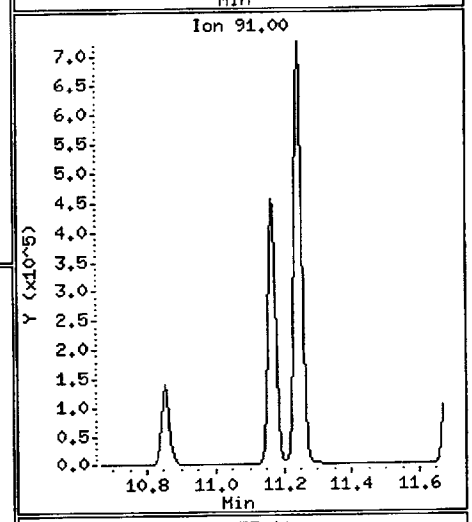


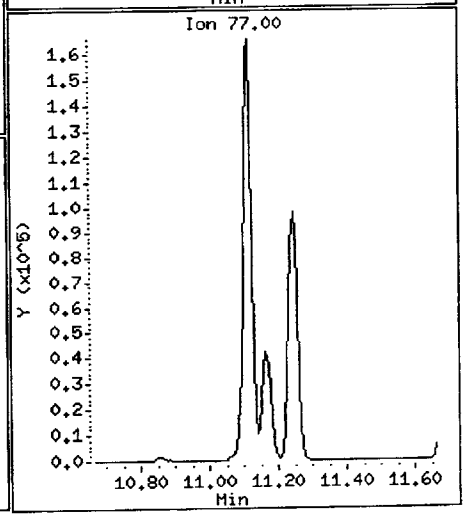












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\50CCV31.D

Date : 25-SEP-2002 06:02

Client ID: 092502CCVA31

Instrument: vms03.i

Sample Info: 092502CCVA31

Purge Volume: 5.0

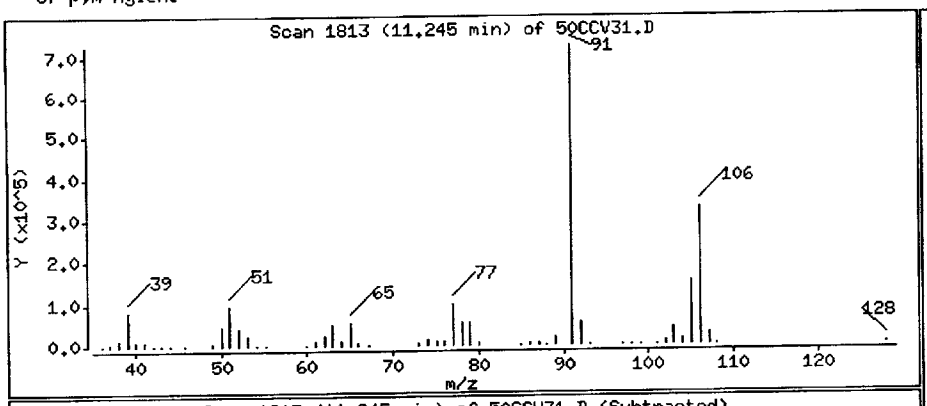
Operator:

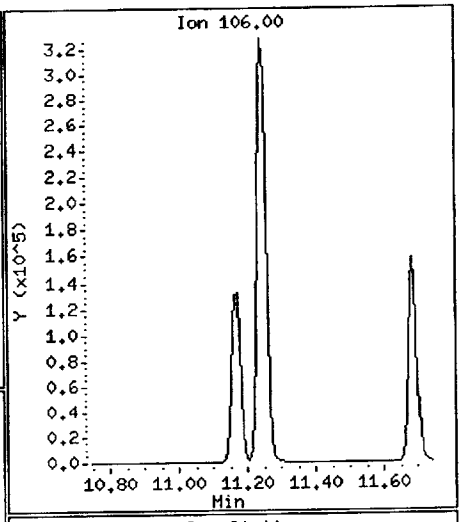
Column phase: DB-624

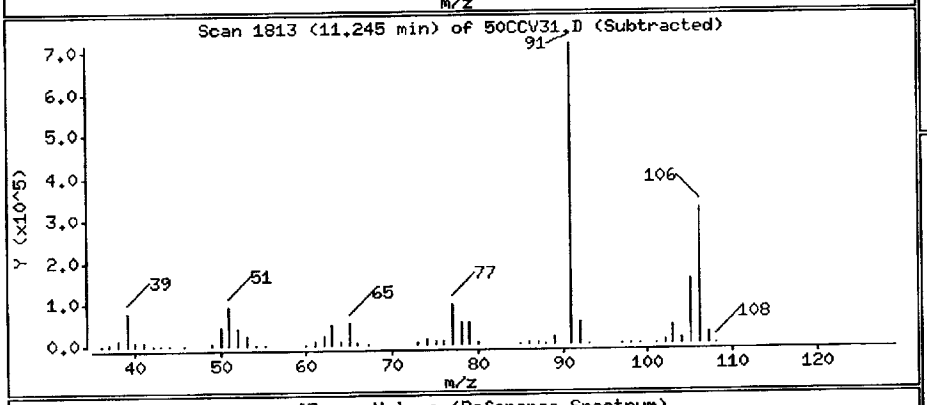
Column diameter: 0.18

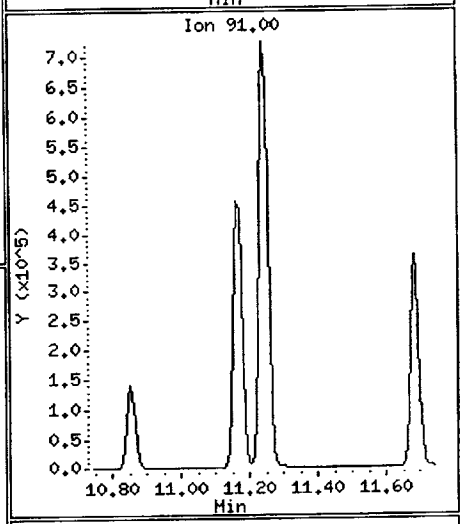
67 p,m-Xylene

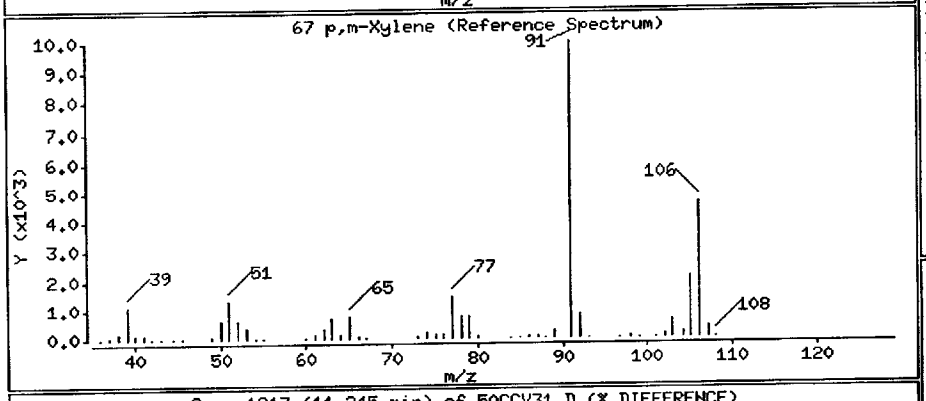
Concentration: 104 ug/l

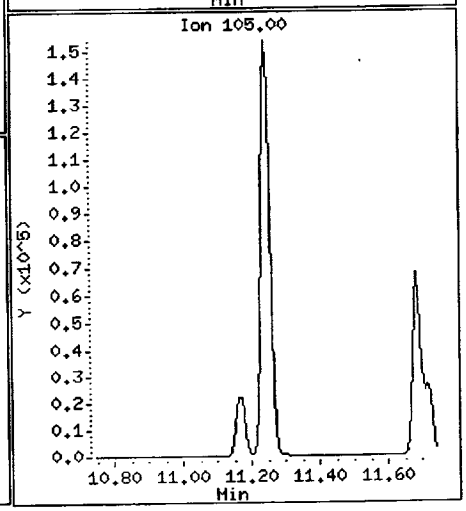


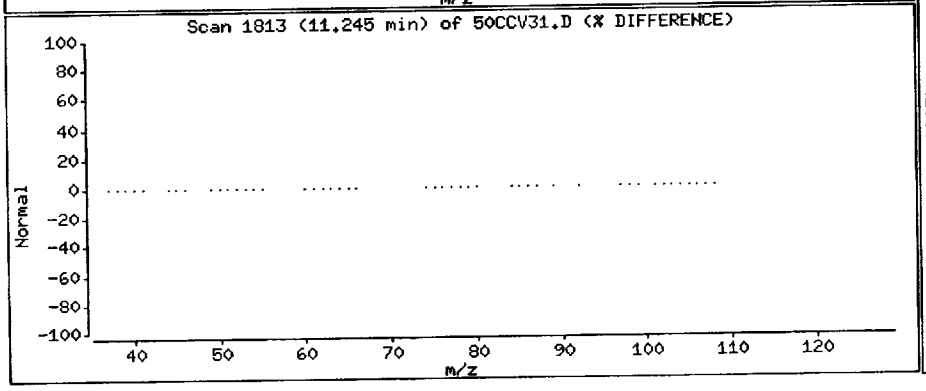












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\50CCV31.D

Date : 25-SEP-2002 06:02

Client ID: 092502CCVA31

Sample Info: 092502CCVA31

Purge Volume: 5.0

Column phase: DB-624

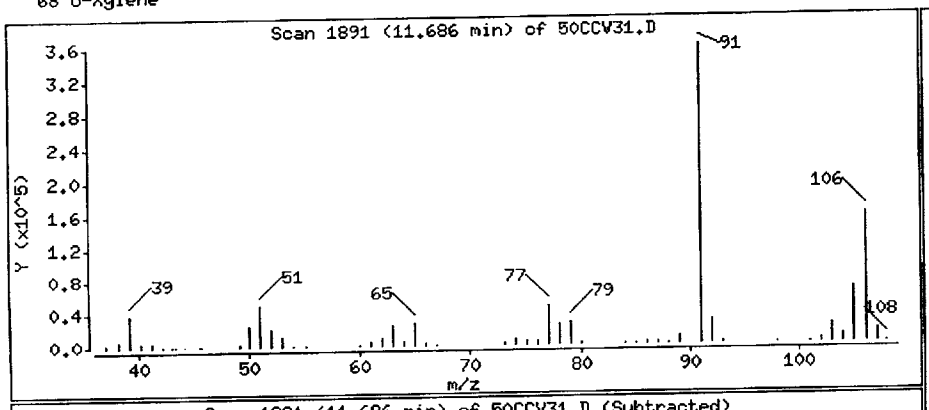
Instrument: vms03.i

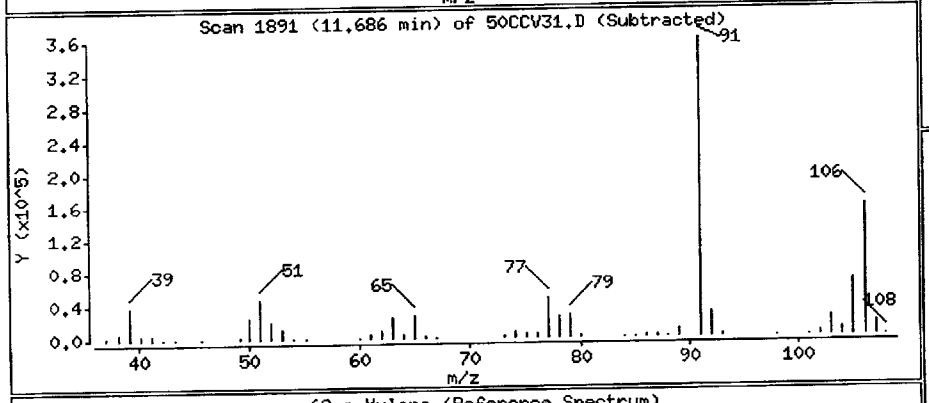
Operator:

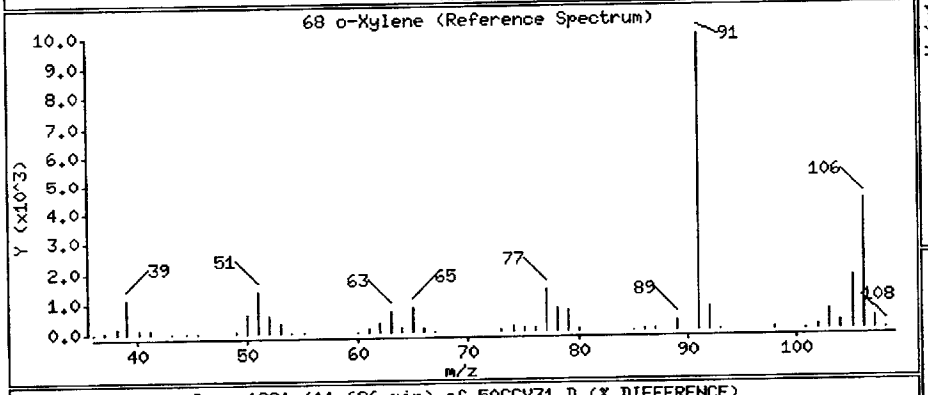
Column diameter: 0.18

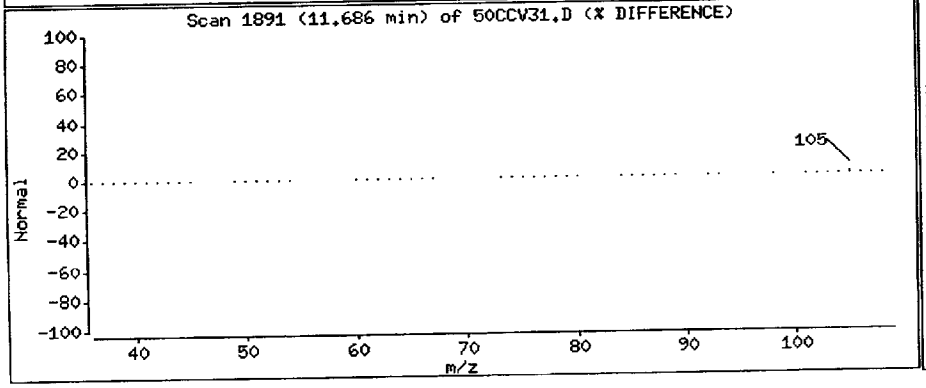
Concentration: 52.1 ug/l

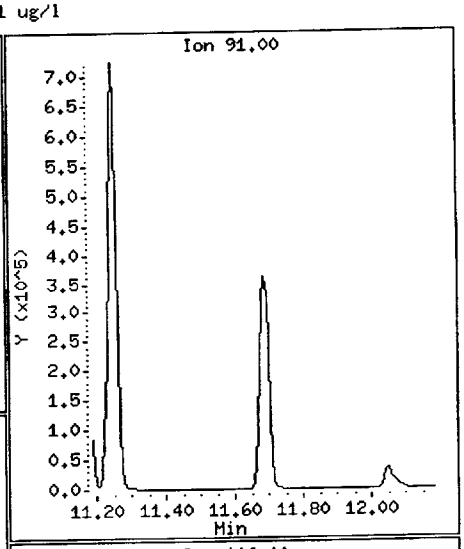
68 o-Xylene

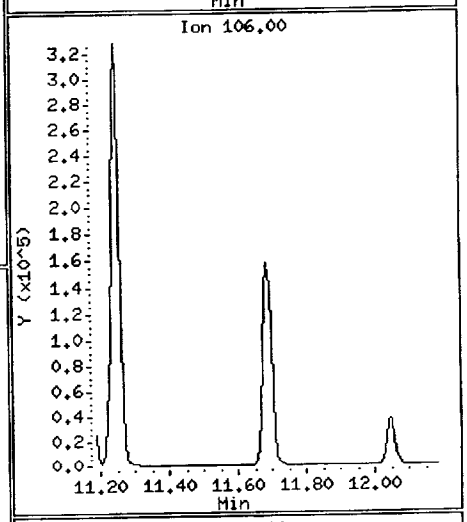


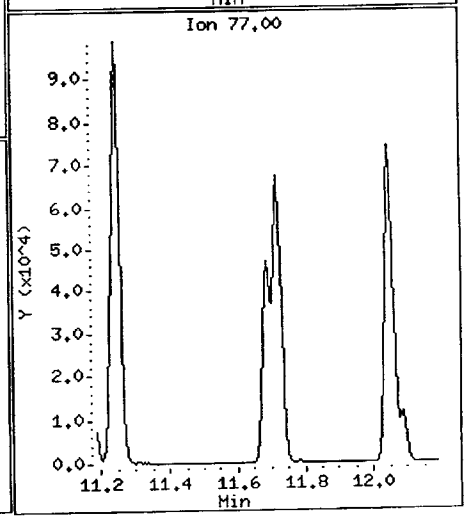












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\50CCV31.D

Date : 25-SEP-2002 06:02

Client ID: 092502CCVA31

Instrument: vms03.i

Sample Info: 092502CCVA31

Purge Volume: 5.0

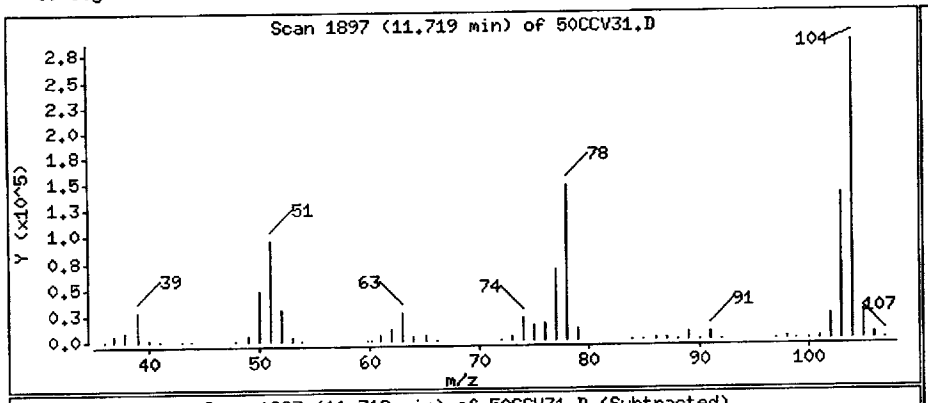
Operator:

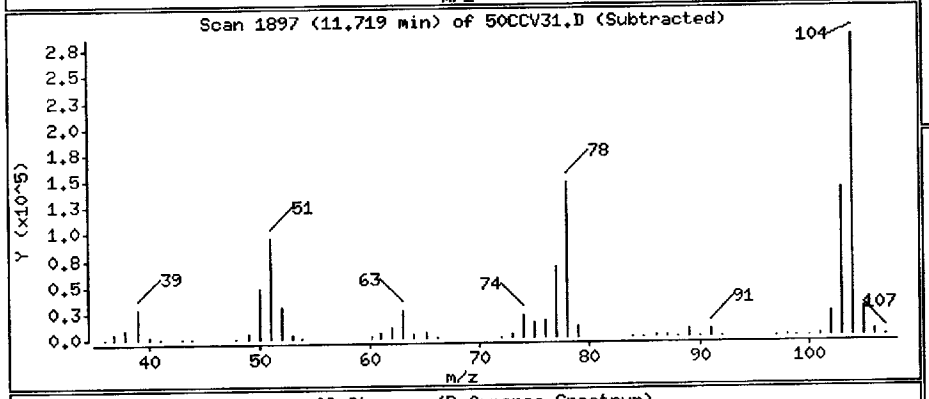
Column phase: DB-624

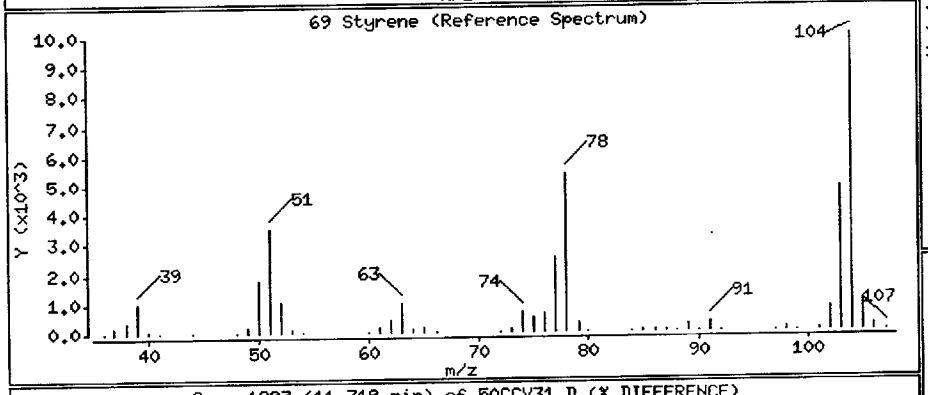
Column diameter: 0.18

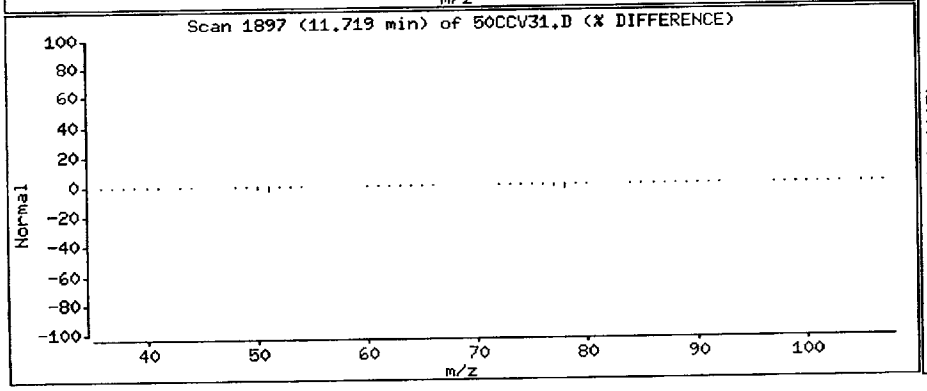
69 Styrene

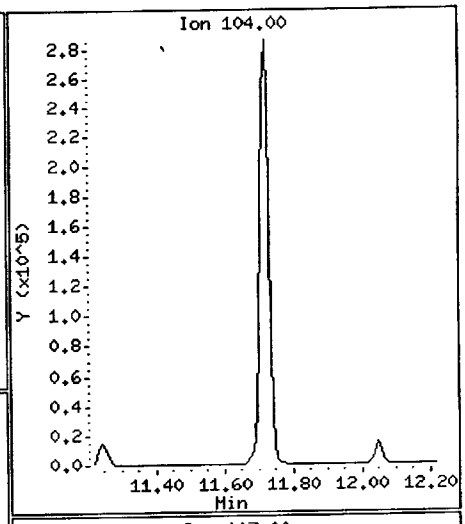
Concentration: 52.4 ug/l

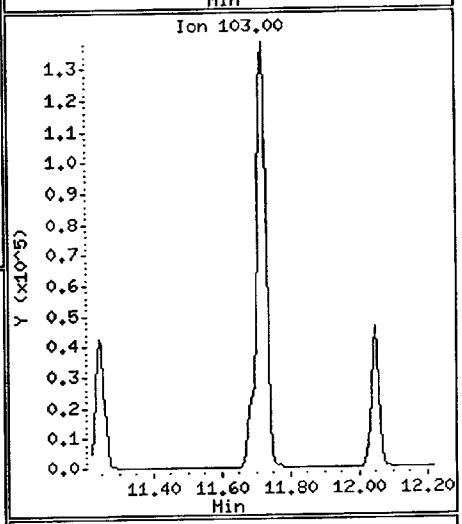


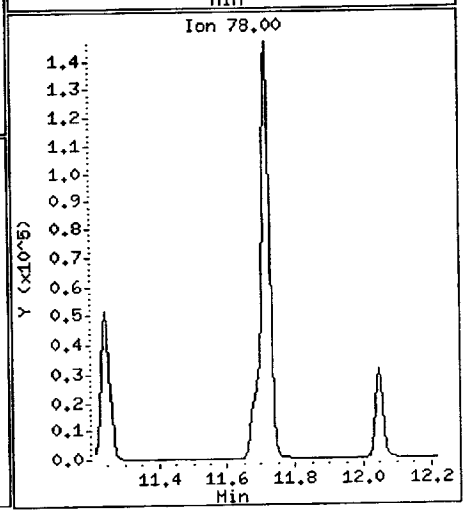












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\50CCV31.D

Date : 25-SEP-2002 06:02

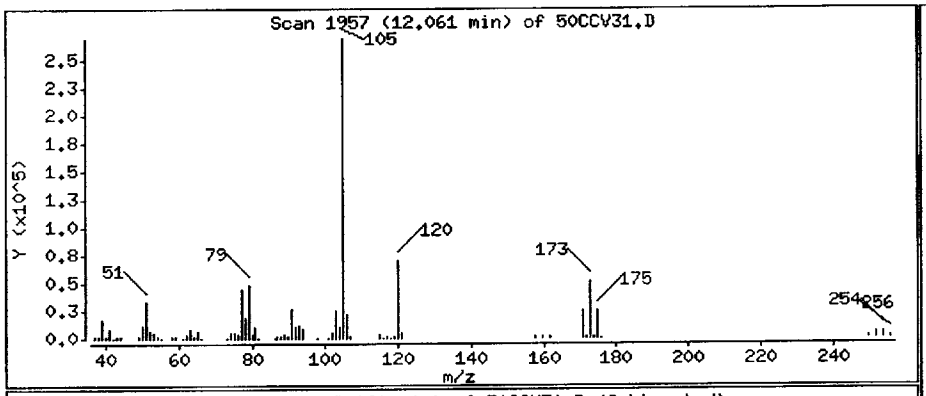
Client ID: 092502CCVA31 | Instrument: vms03.i

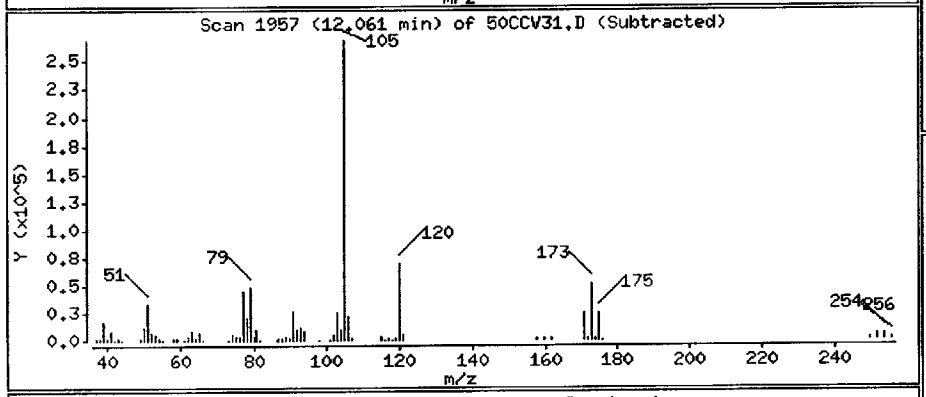
Sample Info: 092502CCVA31

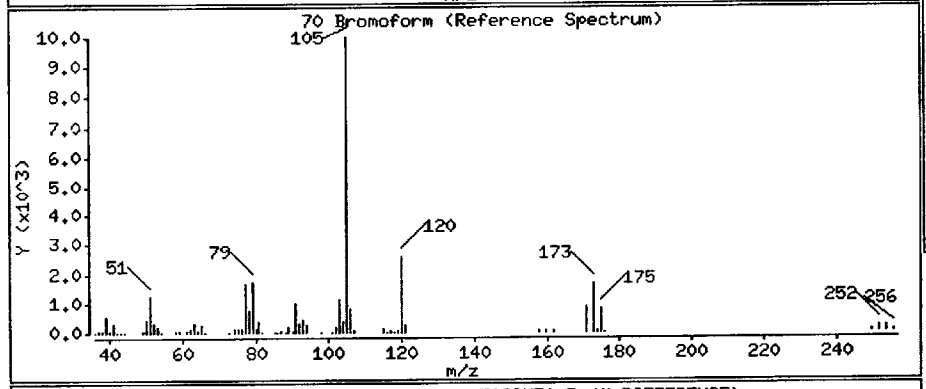
Purge Volume: 5.0 | Operator:

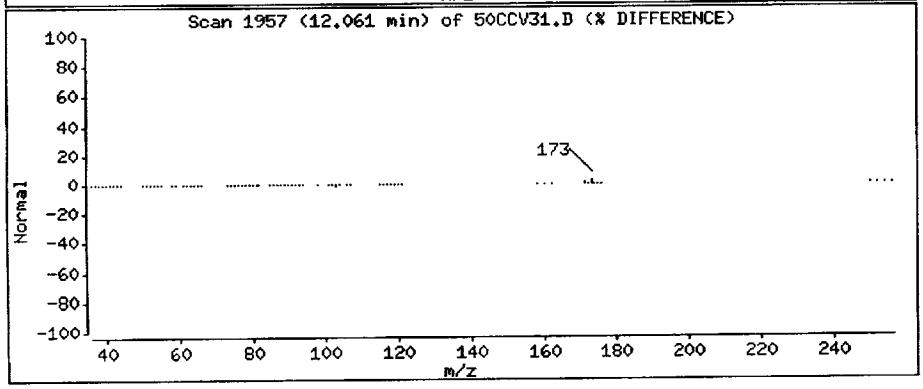
Column phase: DB-624 | Column diameter: 0.18

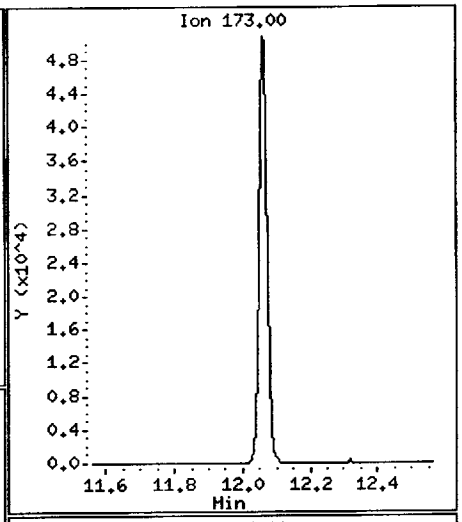
70 Bromoform | Concentration: 49.6 ug/l

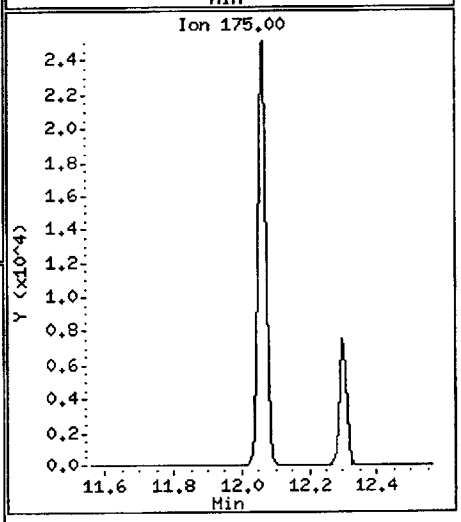












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Date : 25-SEP-2002 06:02

Client ID: 092502CCVA31

Instrument: vms03.i

Sample Info: 092502CCVA31

Purge Volume: 5.0

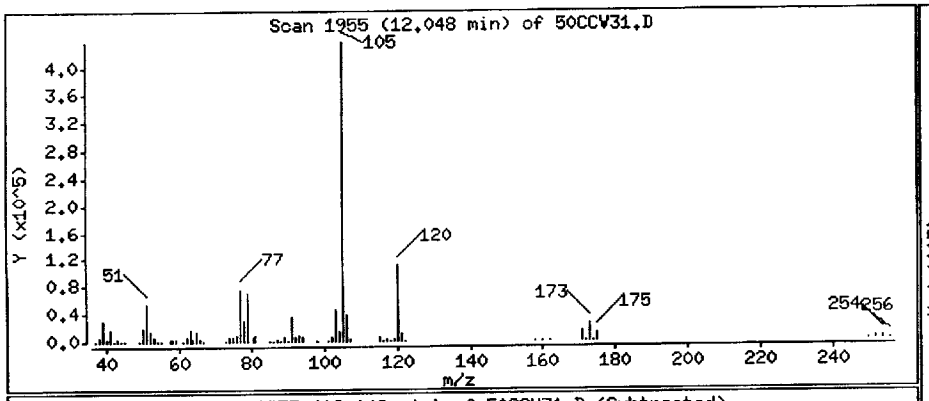
Operator:

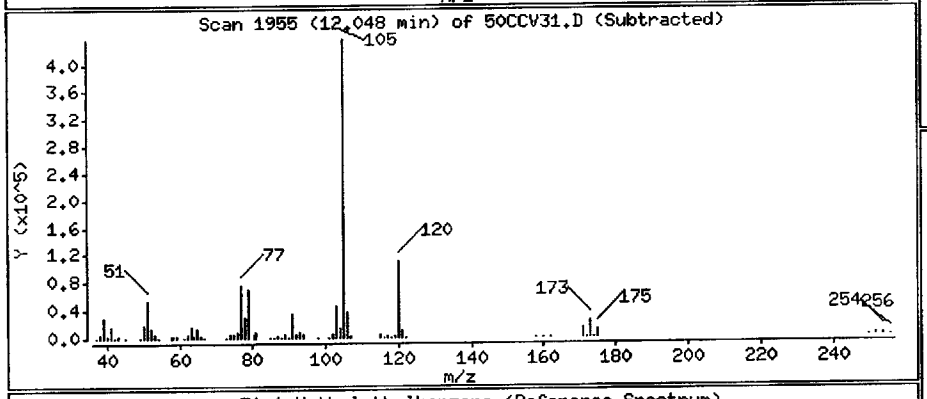
Column phase: DB-624

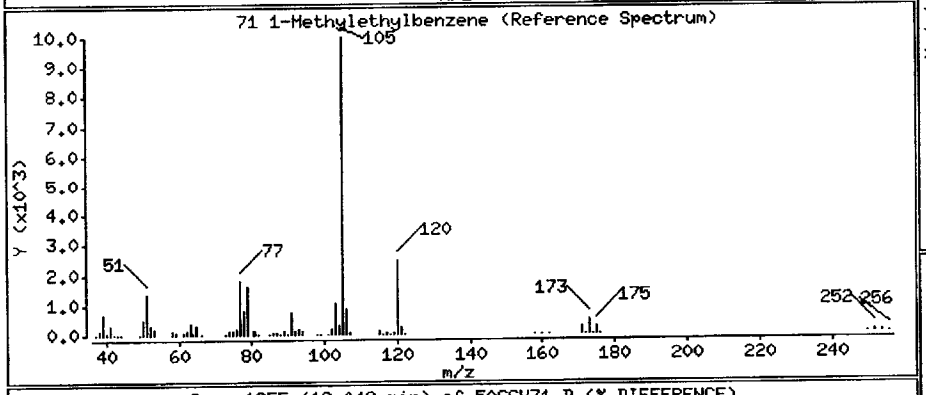
Column diameter: 0.18

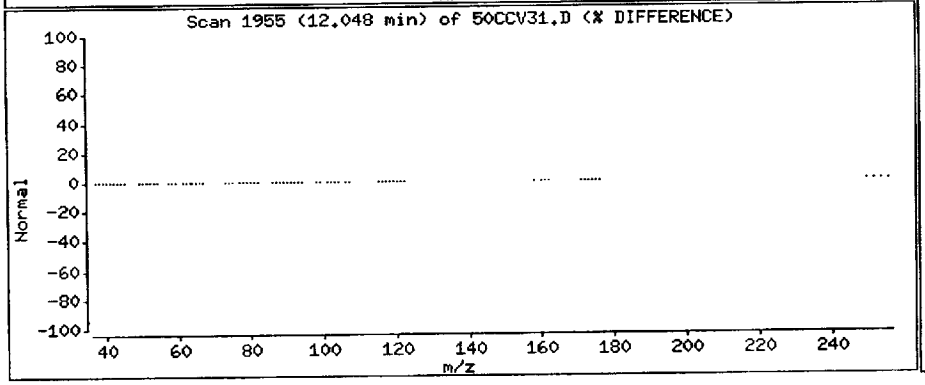
71 1-Methylethylbenzene

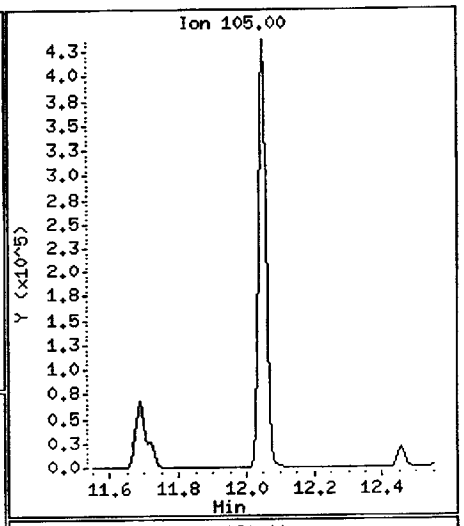
Concentration: 53.1 ug/l

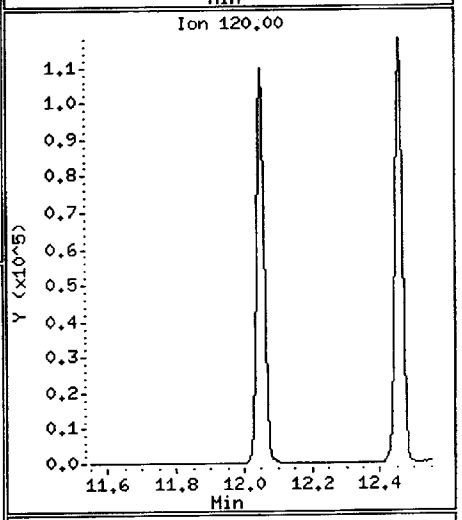


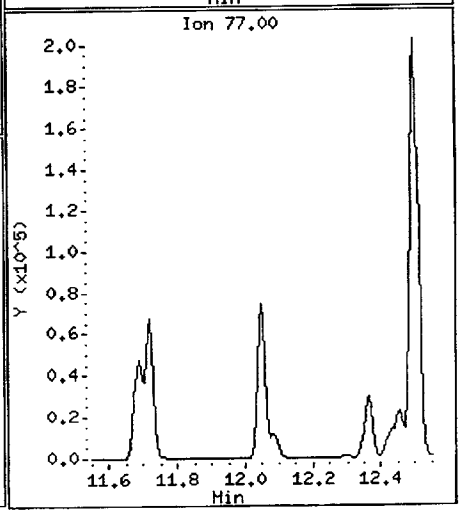












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\50CCV31.D

Date : 25-SEP-2002 06:02

Client ID: 092502CCVA31

Instrument: vms03.i

Sample Info: 092502CCVA31

Purge Volume: 5.0

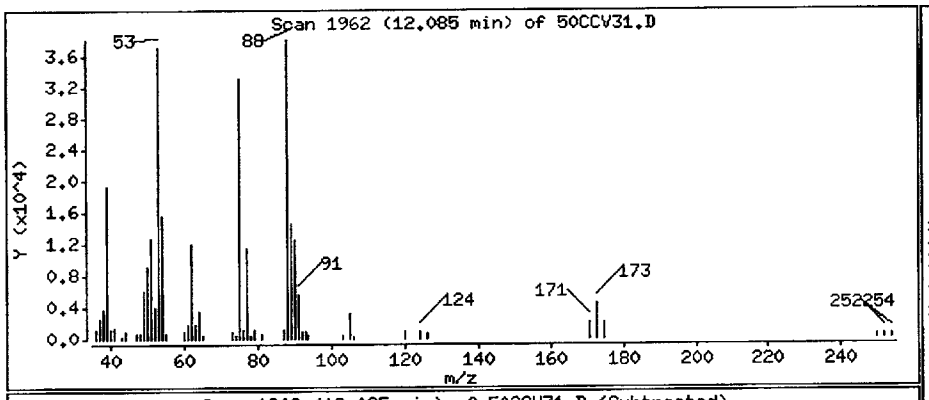
Operator:

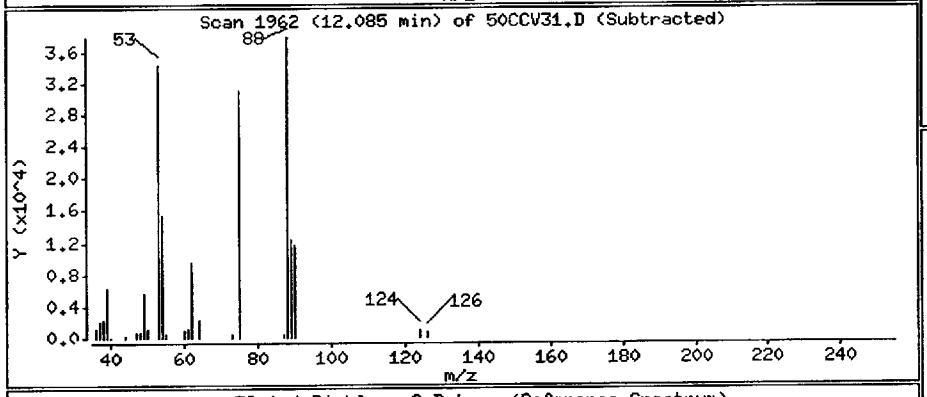
Column phase: DB-624

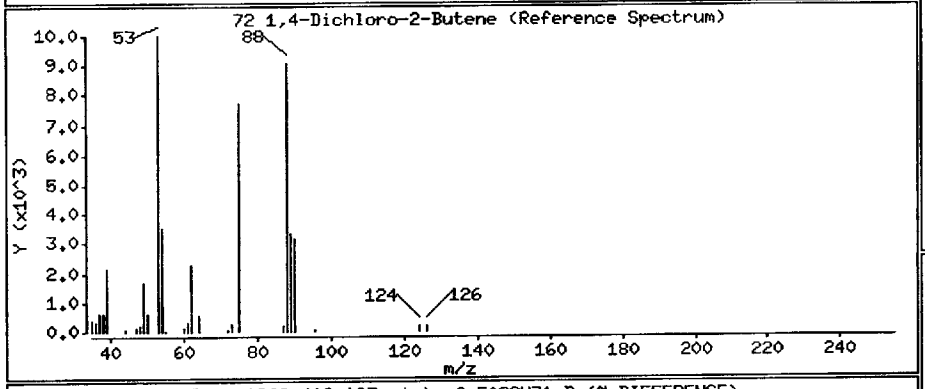
Column diameter: 0.18

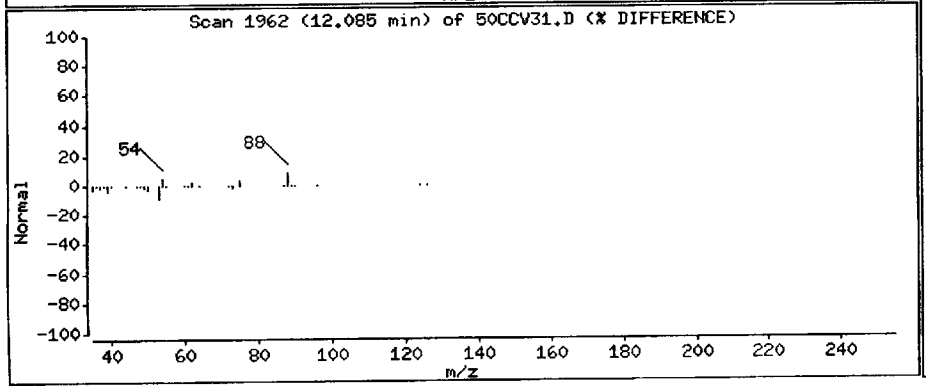
72 1,4-Dichloro-2-Butene

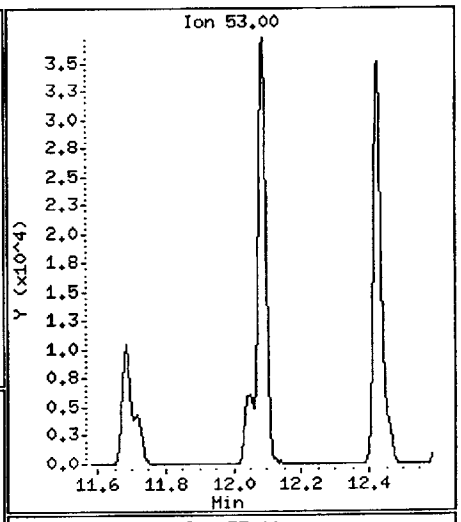
Concentration: 102 ug/l

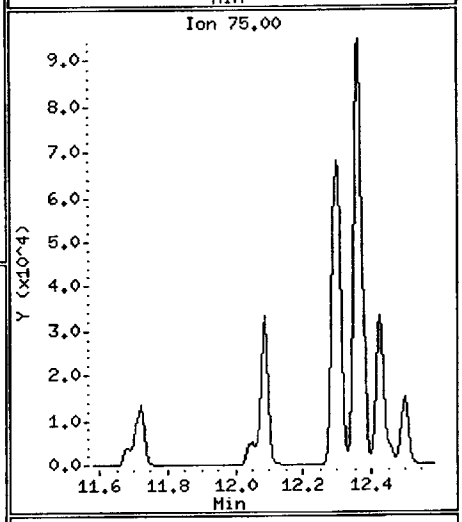


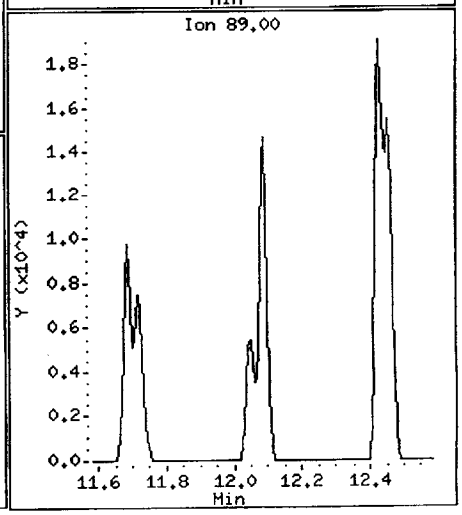












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\50CCV31.D

Date : 25-SEP-2002 06:02

Client ID: 092502CCVA31

Instrument: vms03.i

Sample Info: 092502CCVA31

Purge Volume: 5.0

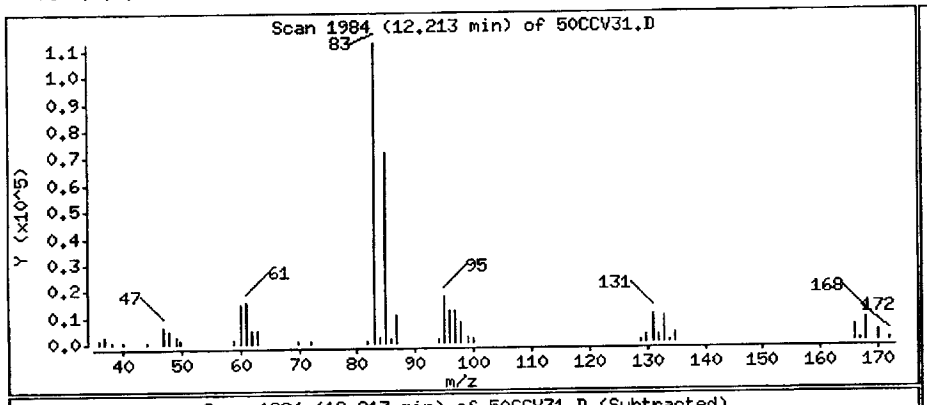
Operator:

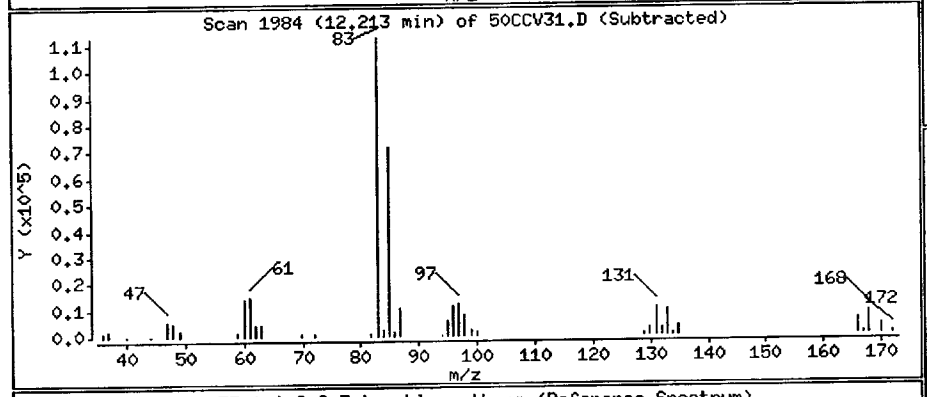
Column phase: DB-624

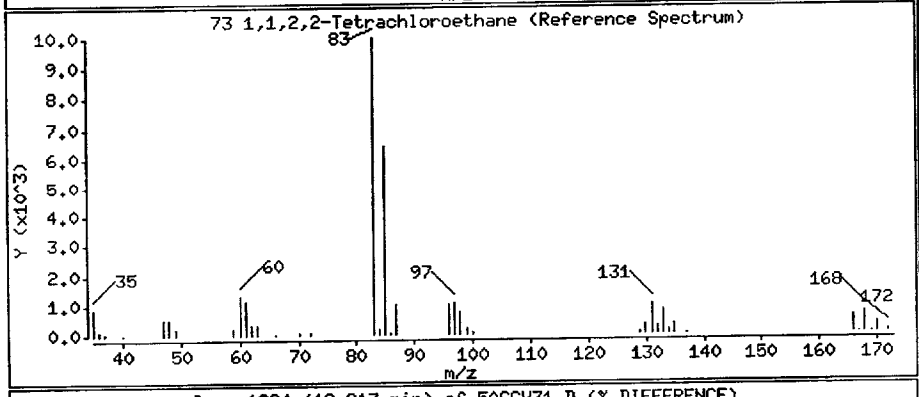
Column diameter: 0.18

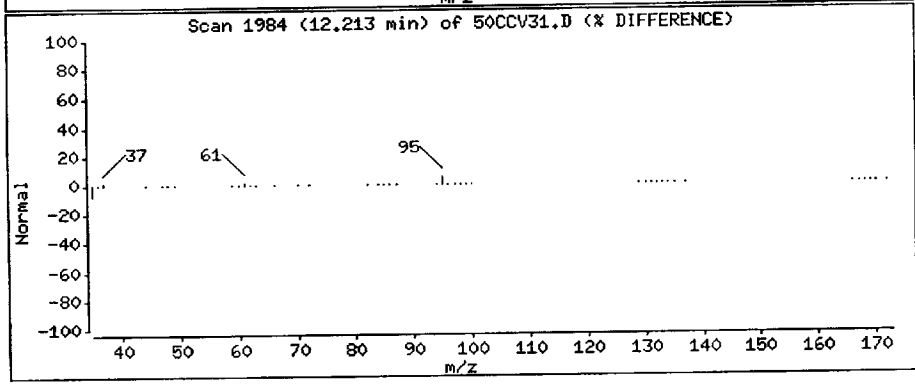
73 1,1,2,2-Tetrachloroethane

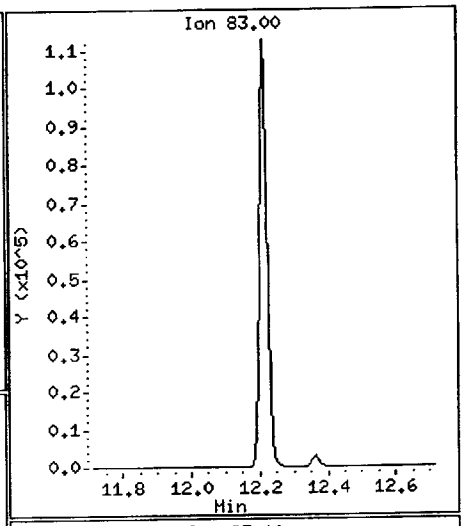
Concentration: 52.5 ug/l

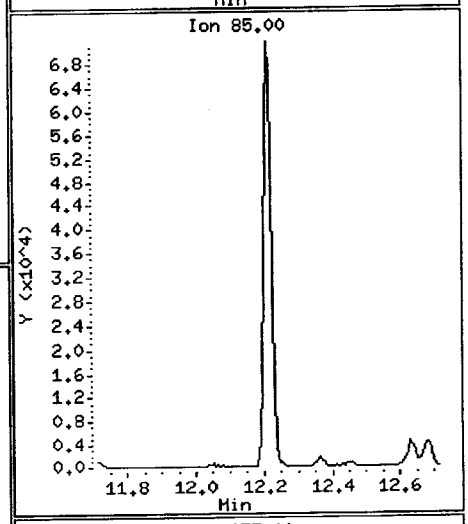


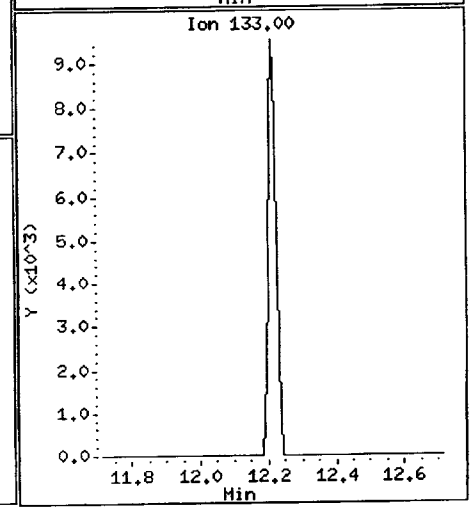












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\50CCV31.D

Date : 25-SEP-2002 06:02

Client ID: 092502CCVA31

Instrument: vms03.i

Sample Info: 092502CCVA31

Purge Volume: 5.0

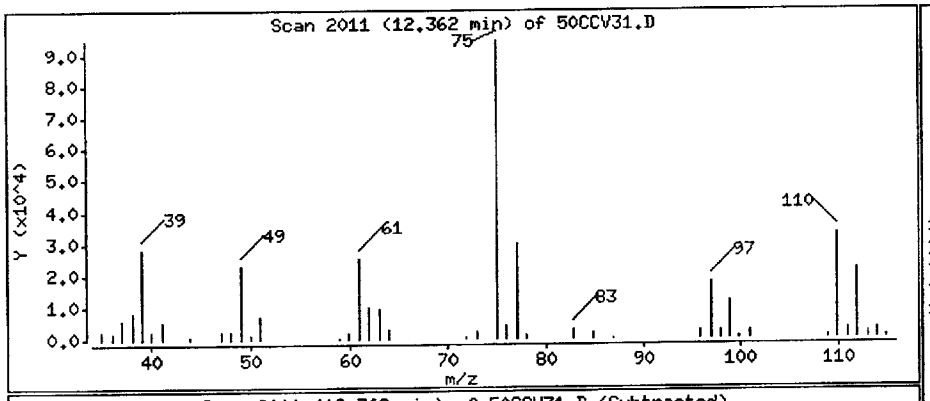
Operator:

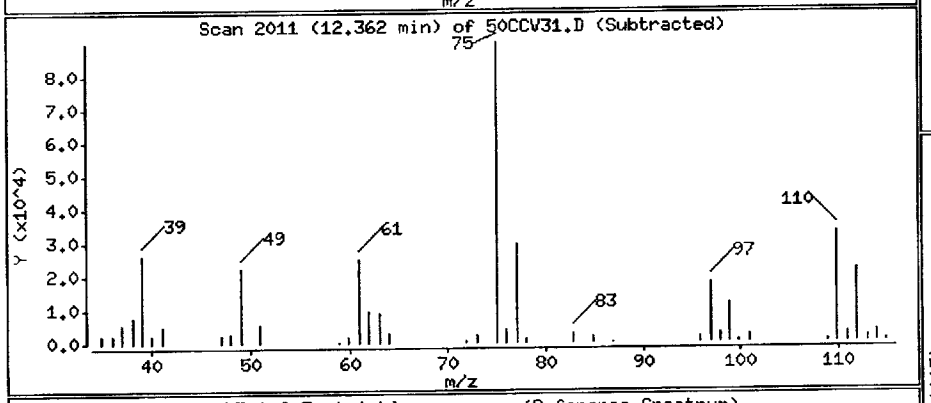
Column phase: DB-624

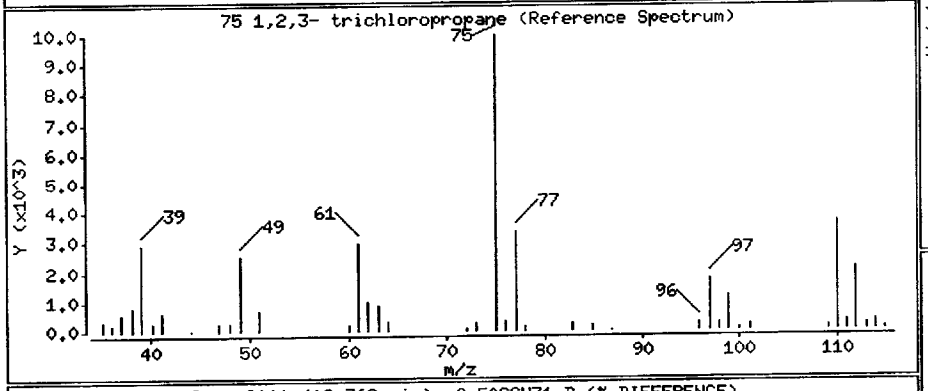
Column diameter: 0.18

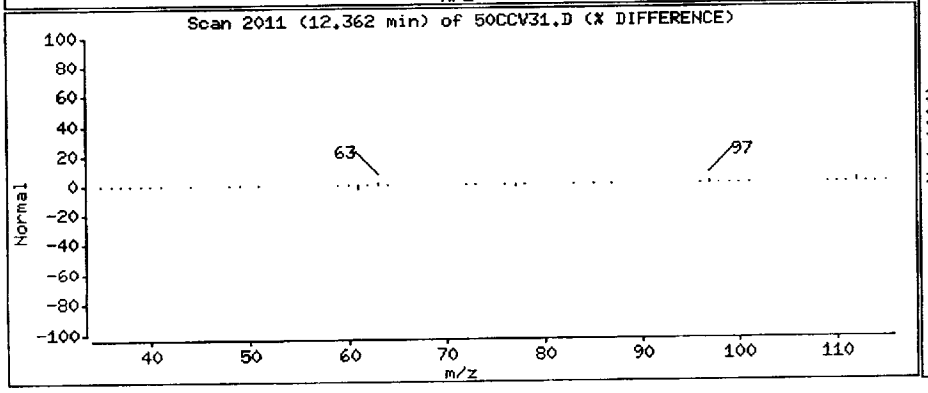
75 1,2,3- trichloropropane

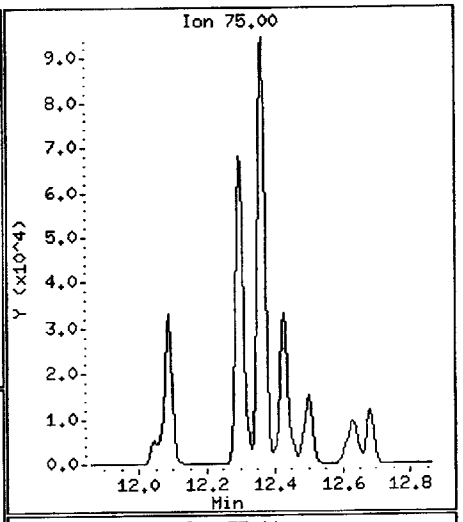
Concentration: 52.1 ug/l

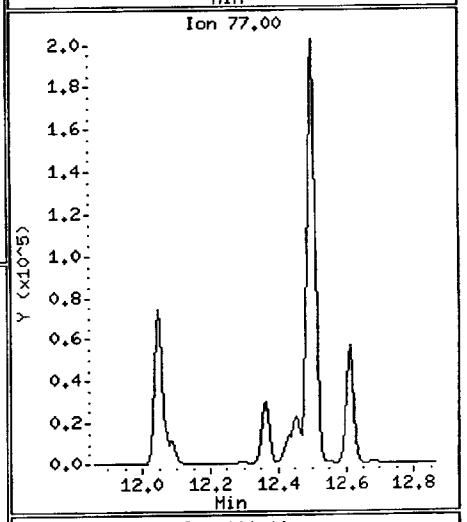


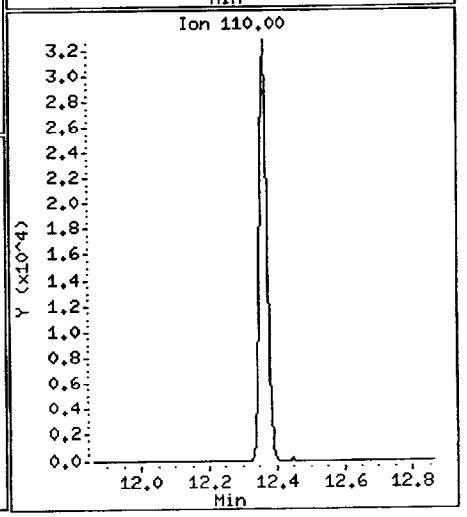












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\50CCV31.D

Date : 25-SEP-2002 06:02

Client ID: 092502CCVA31

Instrument: vms03.i

Sample Info: 092502CCVA31

Purge Volume: 5.0

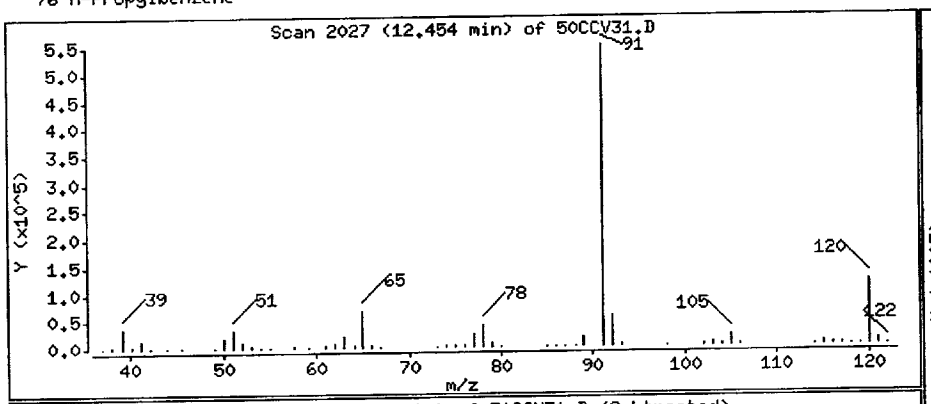
Operator:

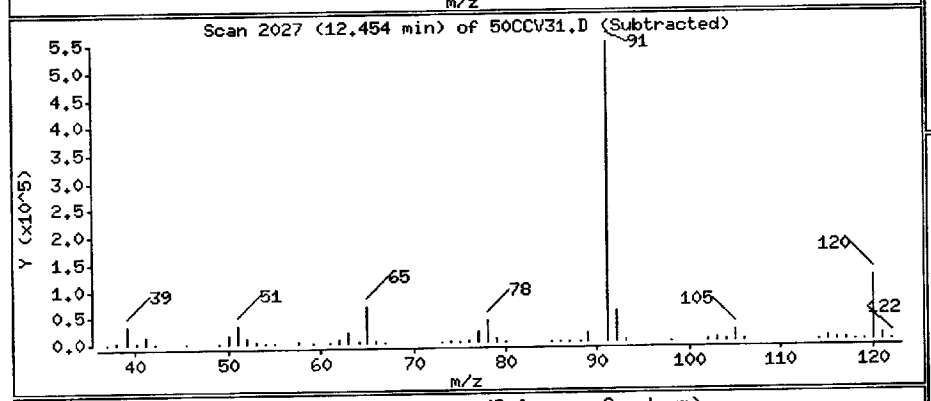
Column phase: DB-624

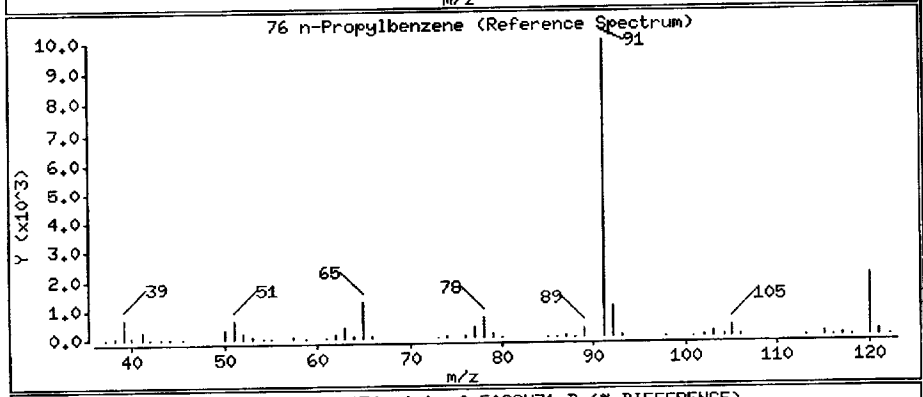
Column diameter: 0.18

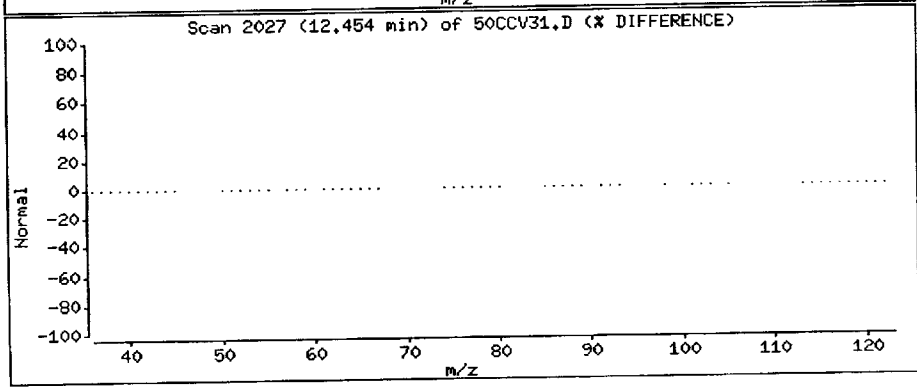
76 n-Propylbenzene

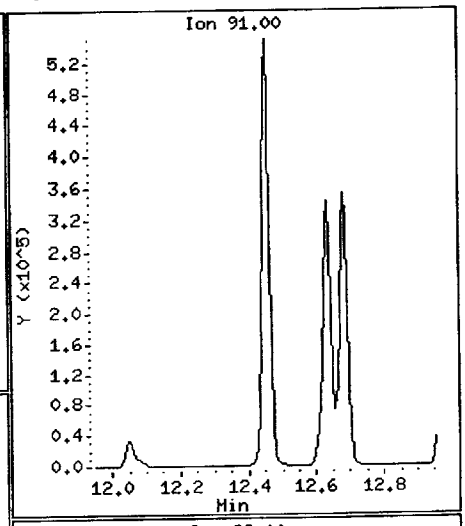
Concentration: 53.2 ug/l

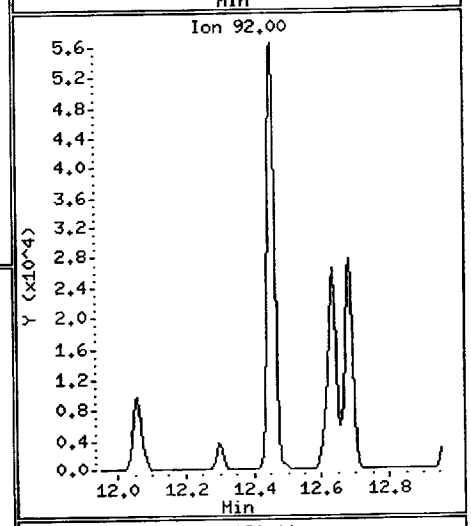


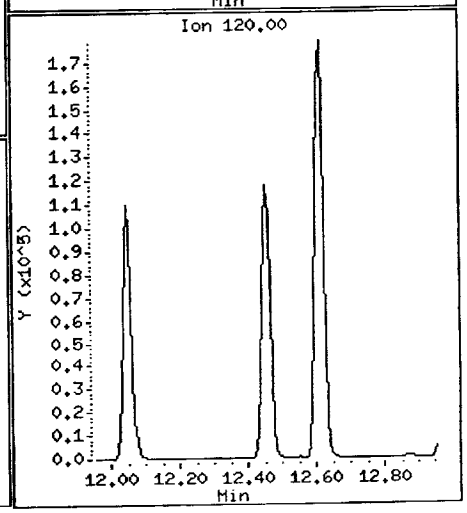












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\50CCV31.D

Date : 25-SEP-2002 06:02

Client ID: 092502CCVA31

Instrument: vms03.i

Sample Info: 092502CCVA31

Purge Volume: 5.0

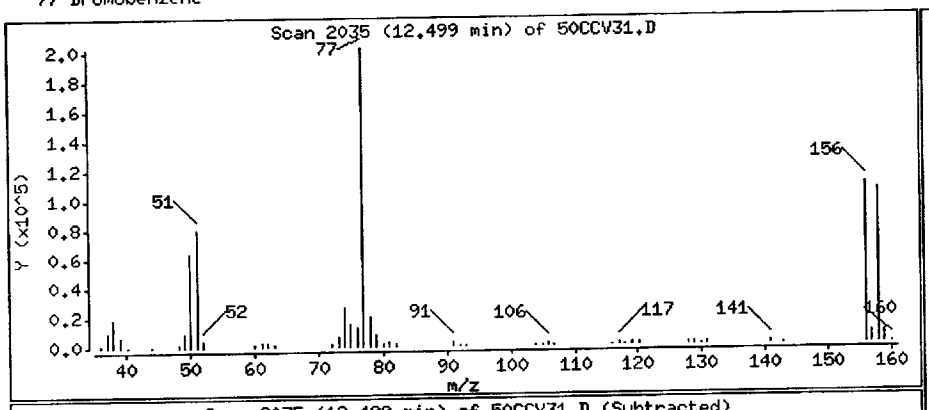
Operator:

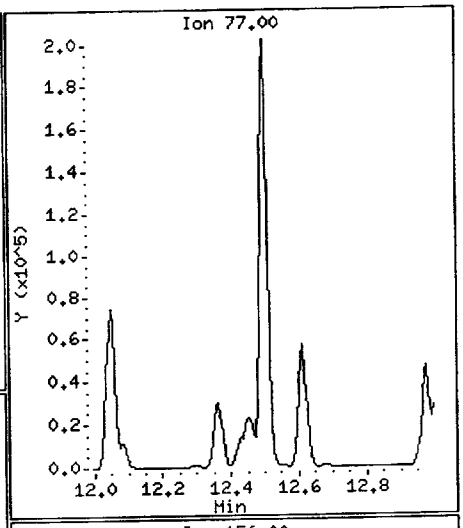
Column phase: DB-624

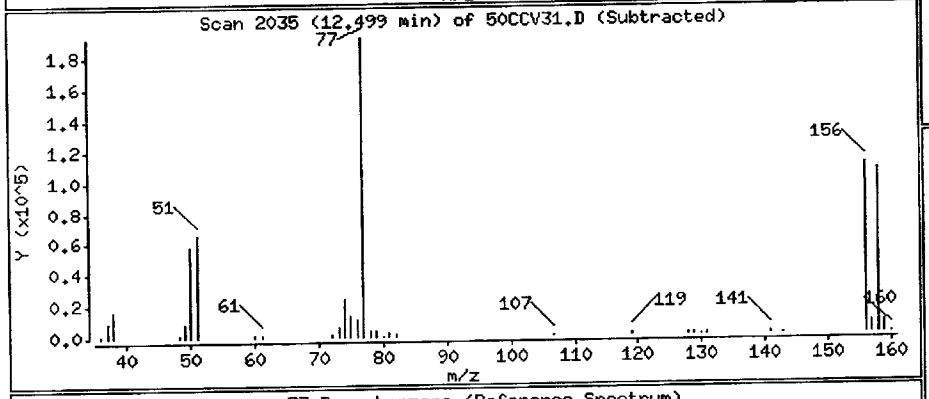
Column diameter: 0.18

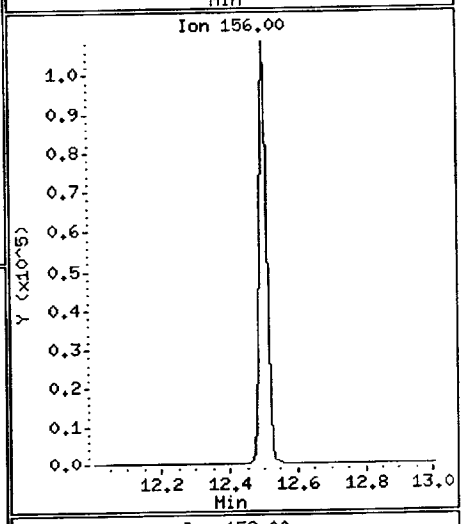
77 Bromobenzene

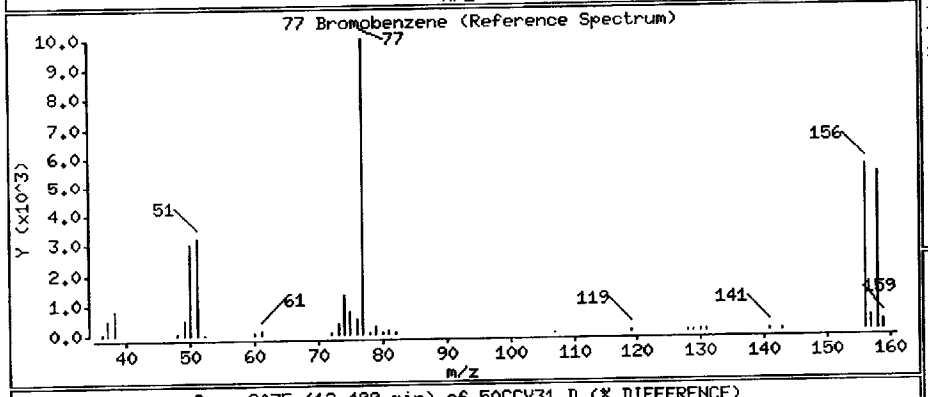
Concentration: 51.5 ug/l

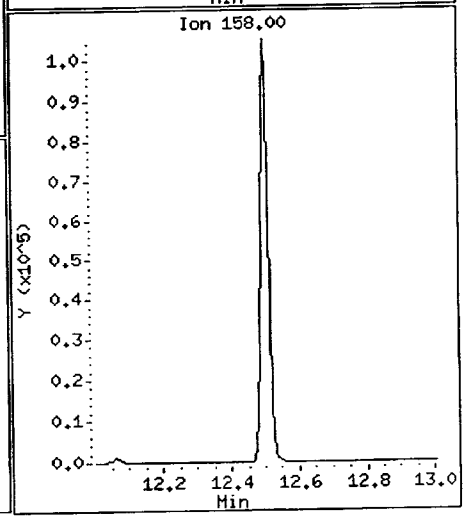


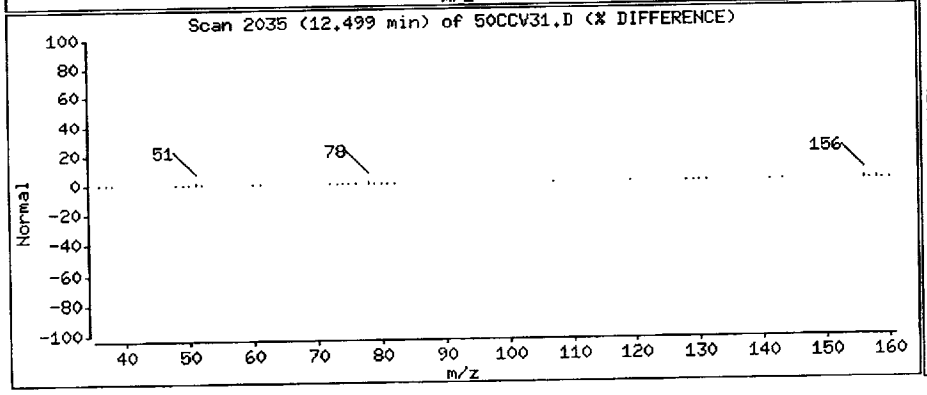












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\50CCV31.D

Date : 25-SEP-2002 06:02

Client ID: 092502CCVA31

Instrument: vms03.i

Sample Info: 092502CCVA31

Purge Volume: 5.0

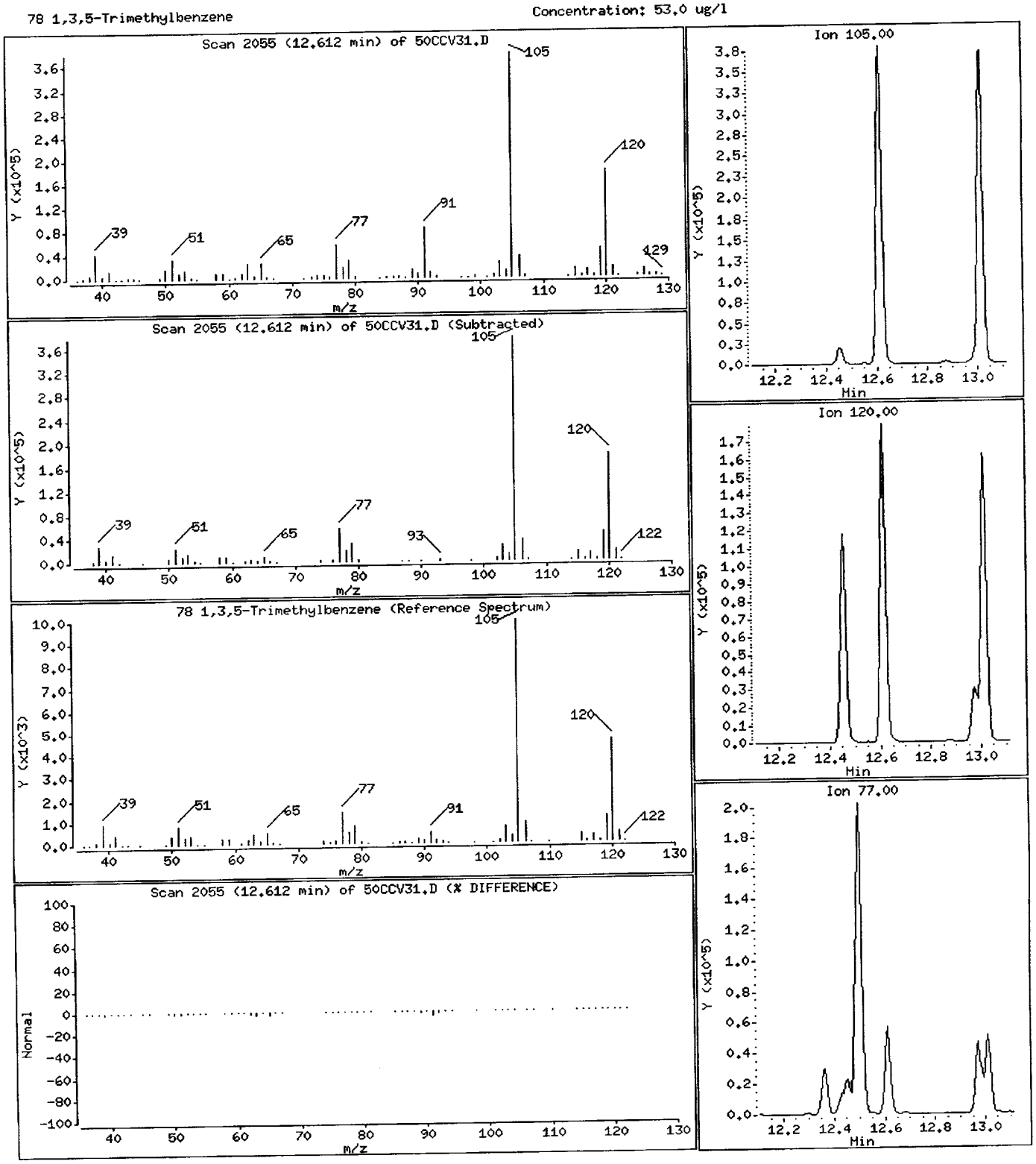
Operator:

Column phase: DB-624

Column diameter: 0.18

78 1,3,5-Trimethylbenzene

Concentration: 53.0 ug/l



Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\50CCV31.D

Date : 25-SEP-2002 06:02

Client ID: 092502CCVA31

Instrument: vms03.i

Sample Info: 092502CCVA31

Purge Volume: 5.0

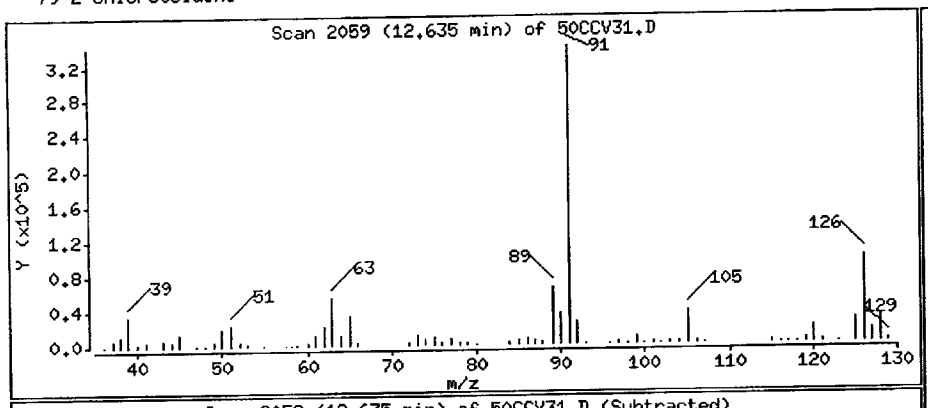
Operator:

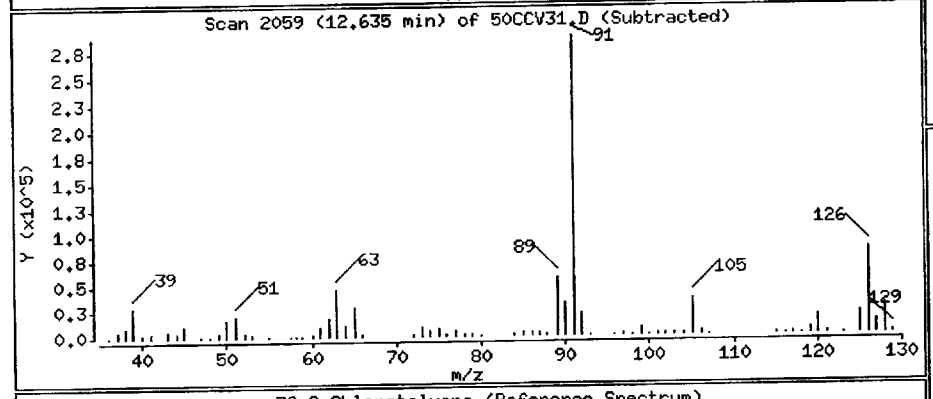
Column phase: DB-624

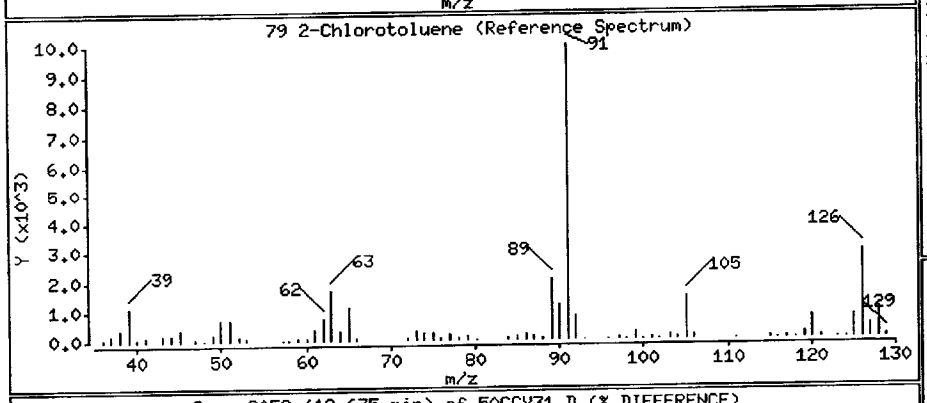
Column diameter: 0.18

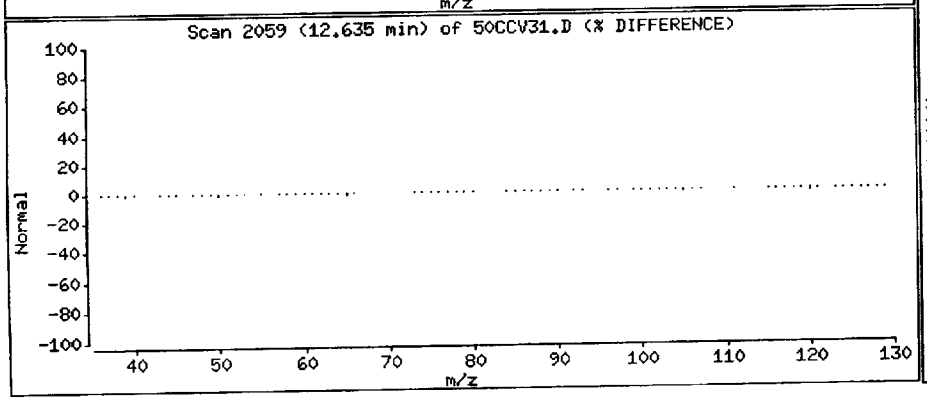
79 2-Chlorotoluene

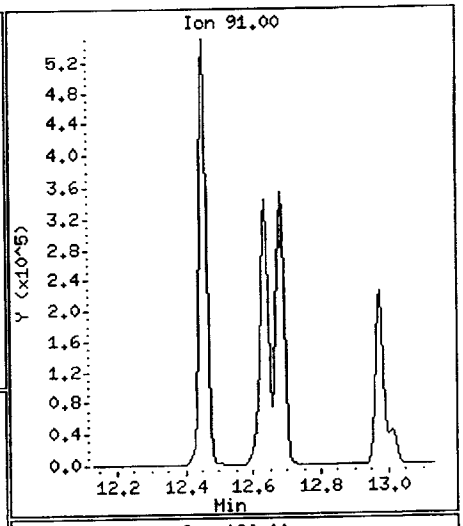
Concentration: 52.7 ug/l

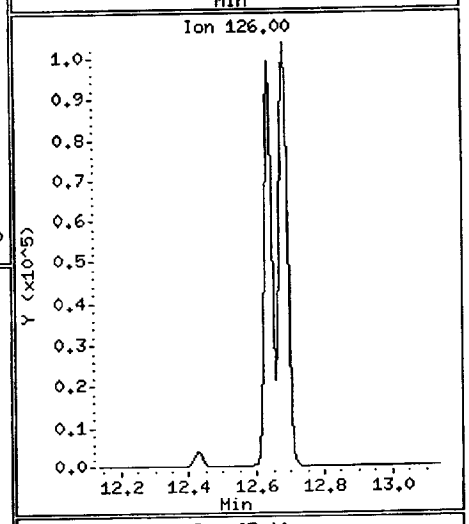


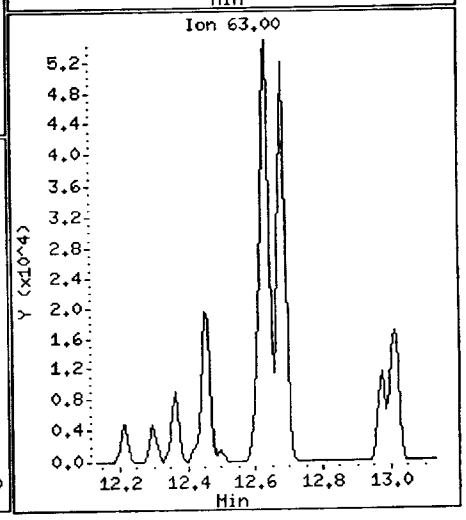












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\50CCV31.D

Date : 25-SEP-2002 06:02

Client ID: 092502CCVA31

Instrument: vms03.i

Sample Info: 092502CCVA31

Purge Volume: 5.0

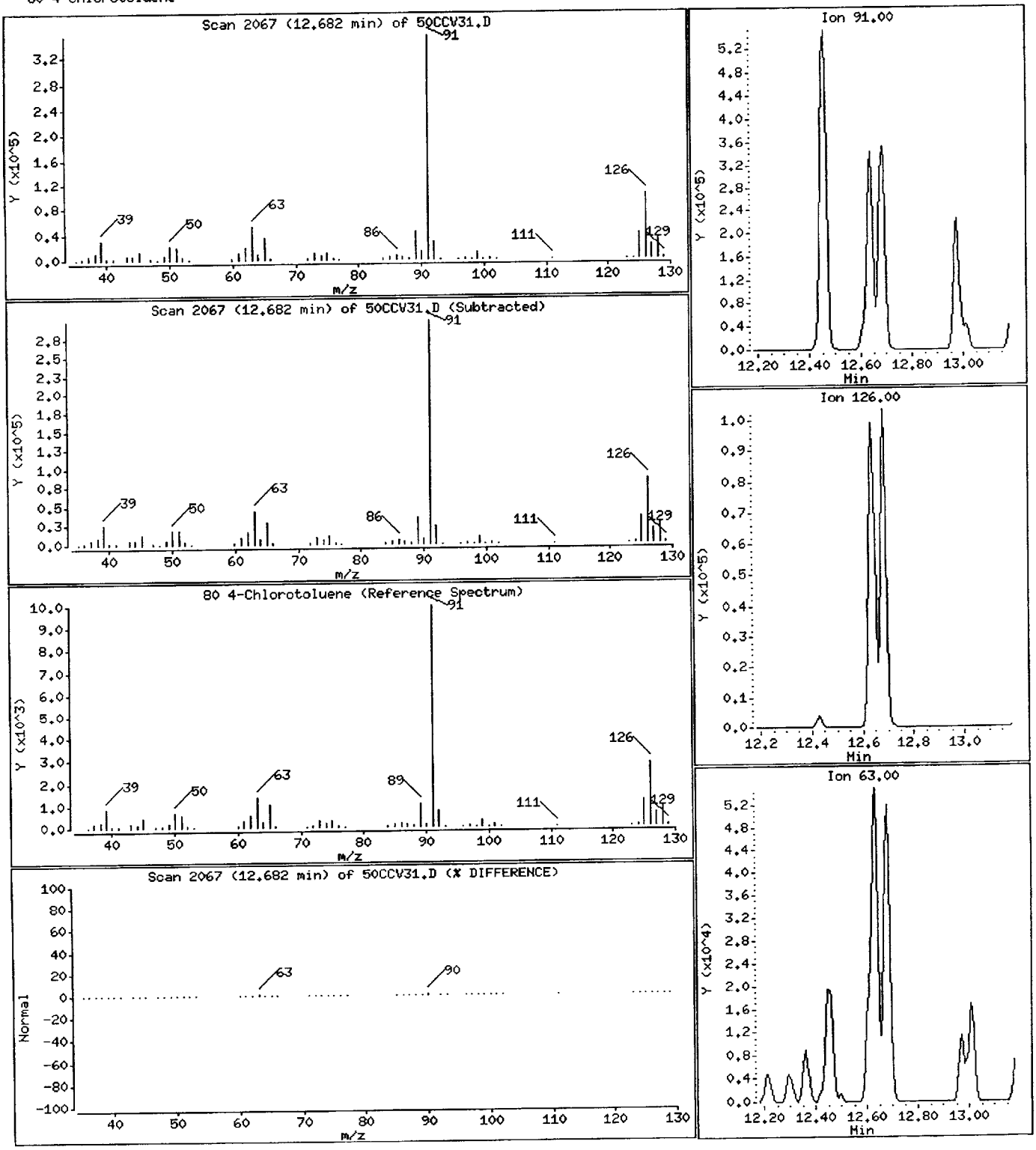
Operator:

Column phase: DB-624

Column diameter: 0.18

80 4-Chlorotoluene

Concentration: 51.0 ug/l



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Date : 25-SEP-2002 06:02

Client ID: 092502CCVA31

Sample Info: 092502CCVA31

Purge Volume: 5.0

Column phase: DB-624

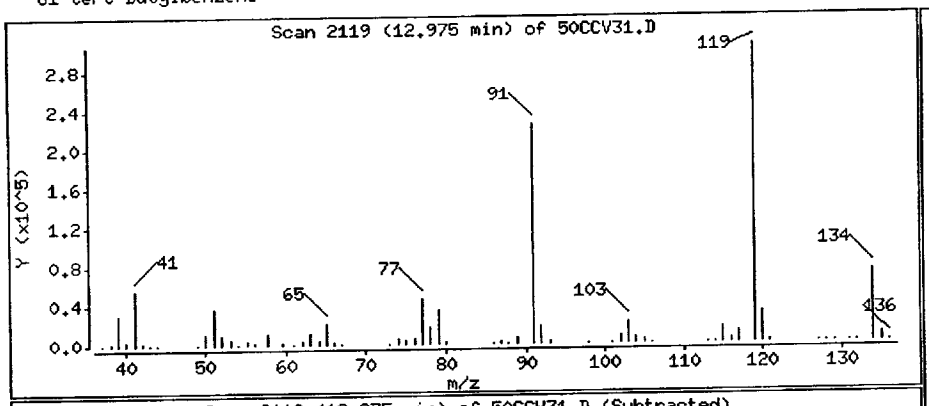
Instrument: vms03.i

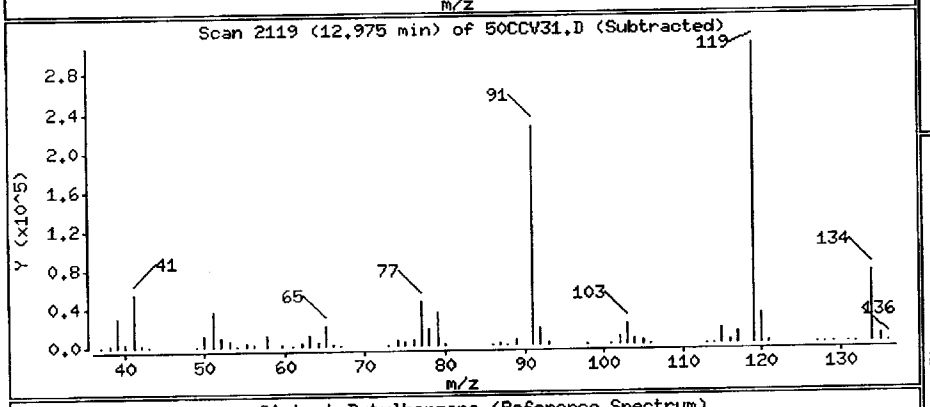
Operator:

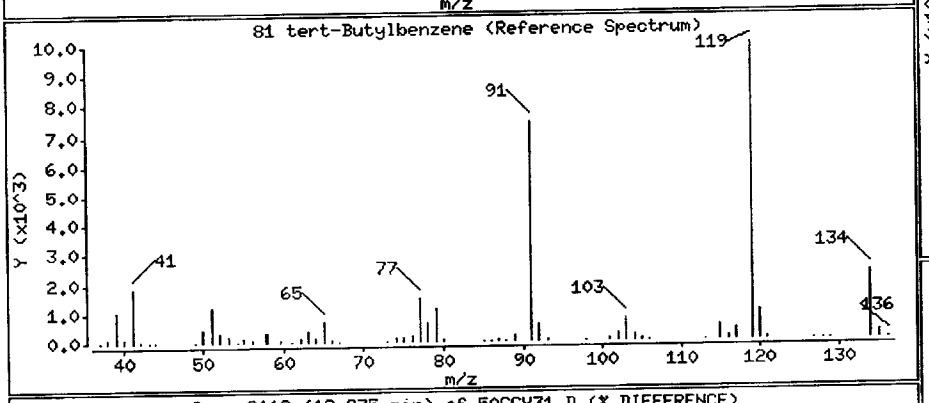
Column diameter: 0.18

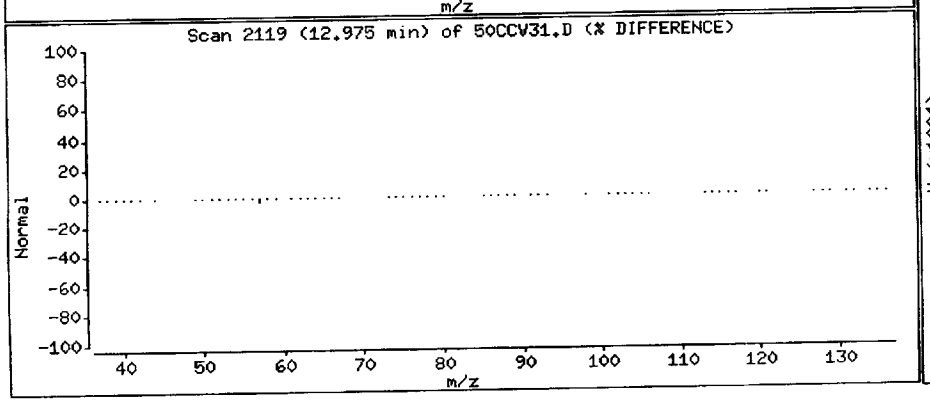
Concentration: 53.2 ug/l

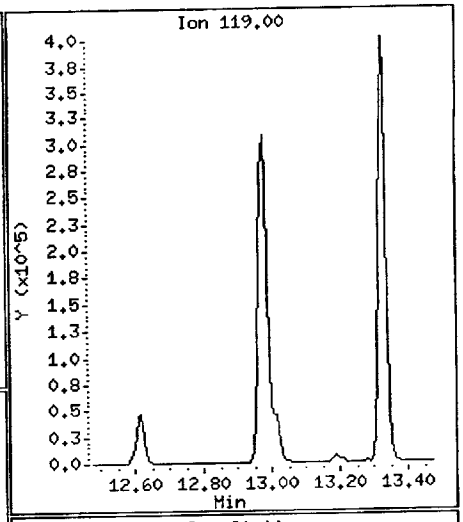
81 tert-Butylbenzene

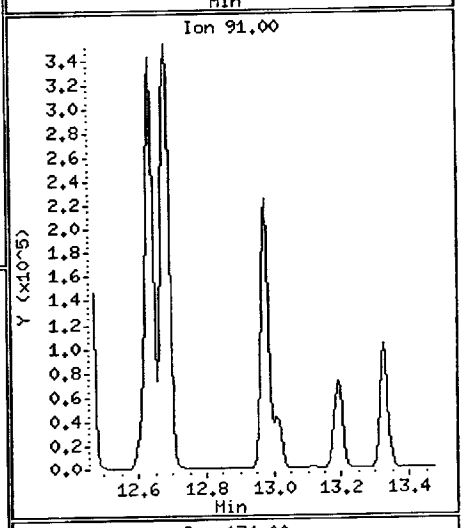


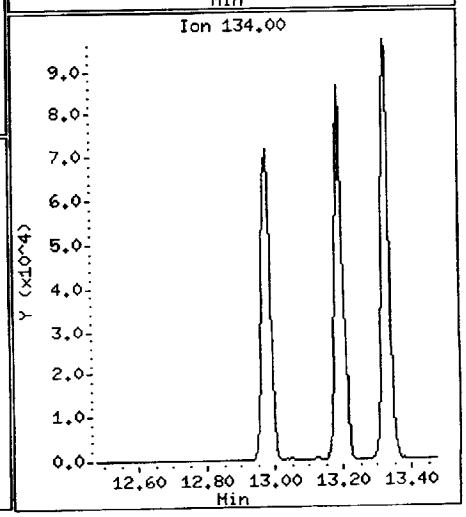












Data File: \\Vms03\dd\chem\vms03.i\H3092502.b\50CCV31.D

Date : 25-SEP-2002 06:02

Client ID: 092502CCVA31

Instrument: vms03.i

Sample Info: 092502CCVA31

Purge Volume: 5.0

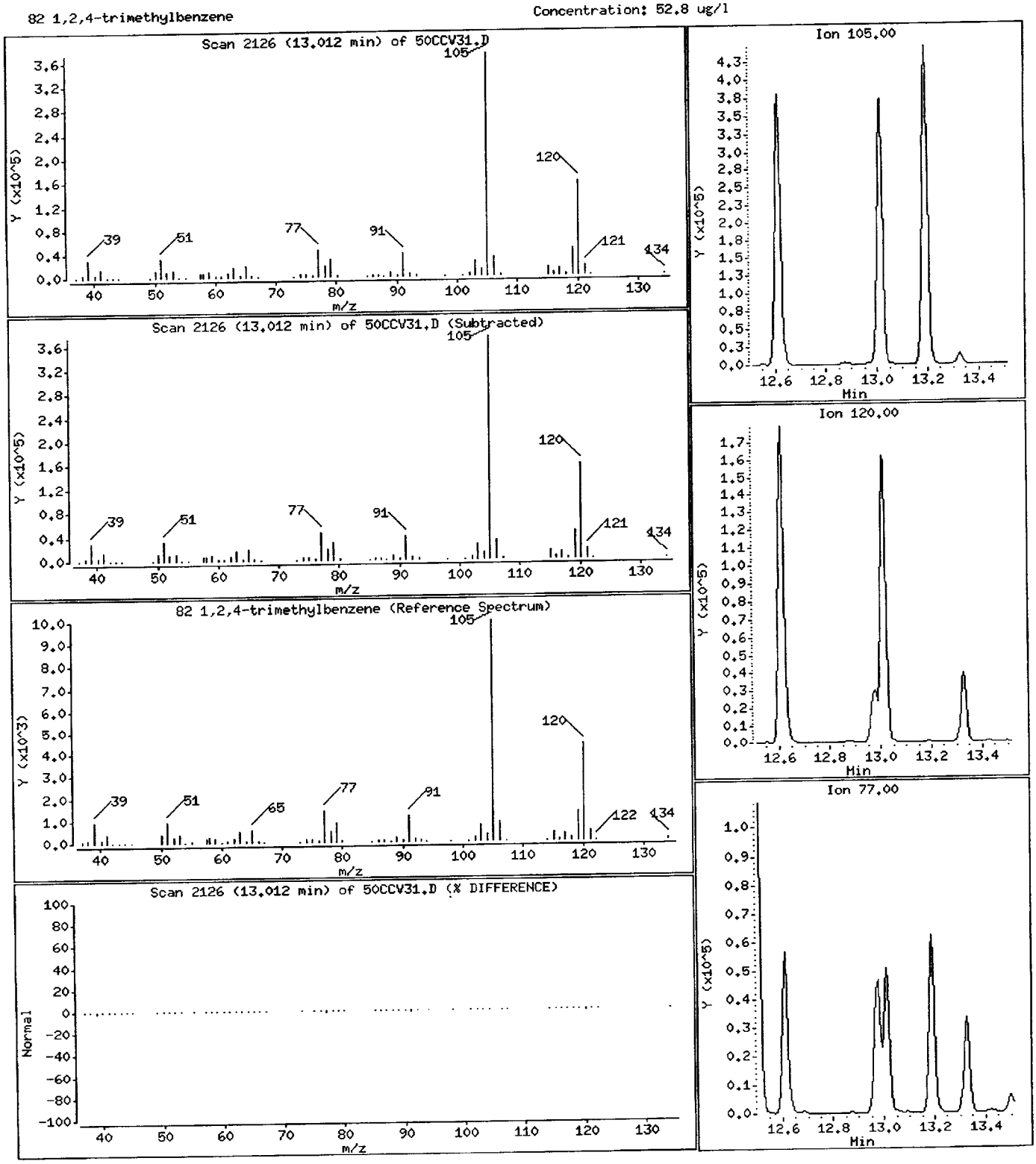
Operator:

Column phase: DB-624

Column diameter: 0.18

82 1,2,4-trimethylbenzene

Concentration: 52.8 ug/l



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Date : 25-SEP-2002 06:02

Client ID: 092502CCVA31

Instrument: vms03.i

Sample Info: 092502CCVA31

Purge Volume: 5.0

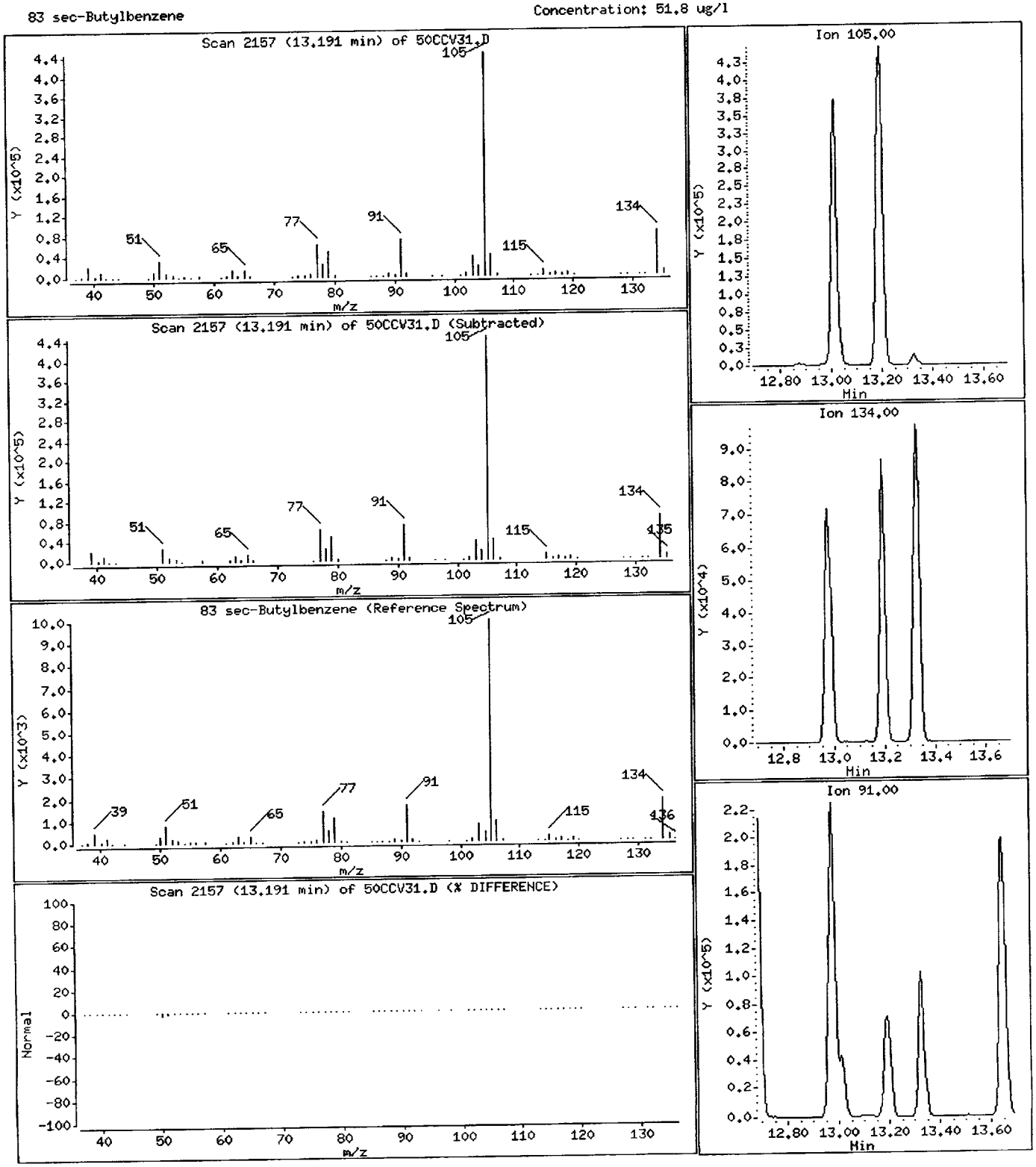
Operator:

Column phase: DB-624

Column diameter: 0.18

83 sec-Butylbenzene

Concentration: 51.8 ug/l



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Date : 25-SEP-2002 06:02

Client ID: 092502CCVA31

Instrument: vms03.i

Sample Info: 092502CCVA31

Purge Volume: 5.0

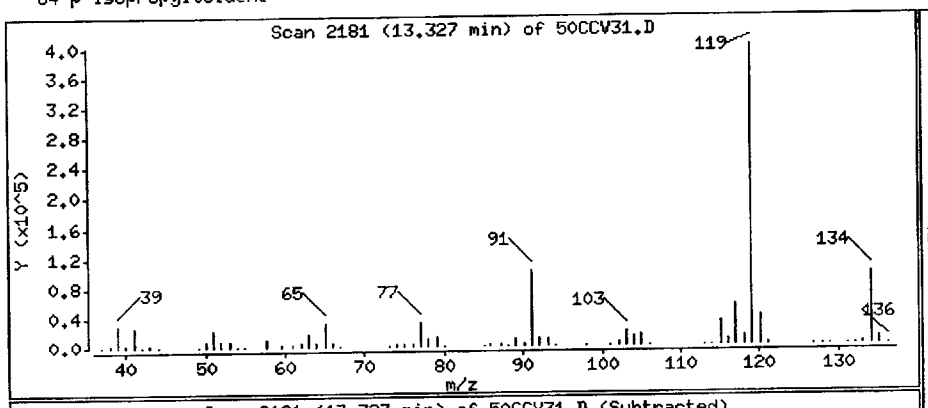
Operator:

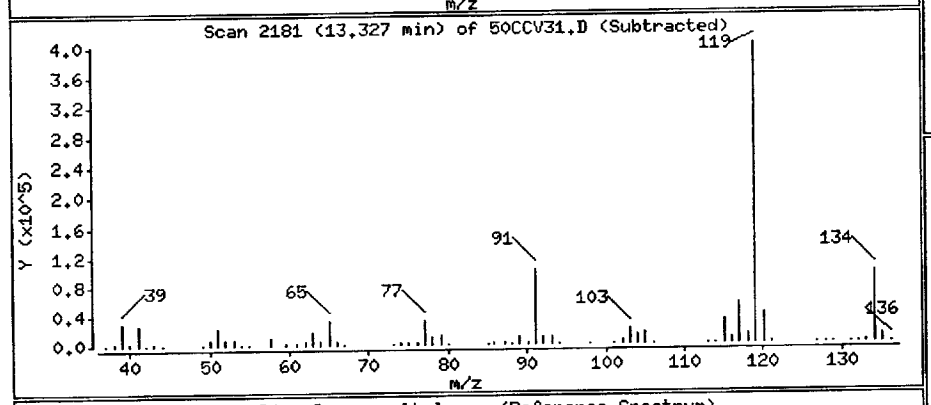
Column phase: DB-624

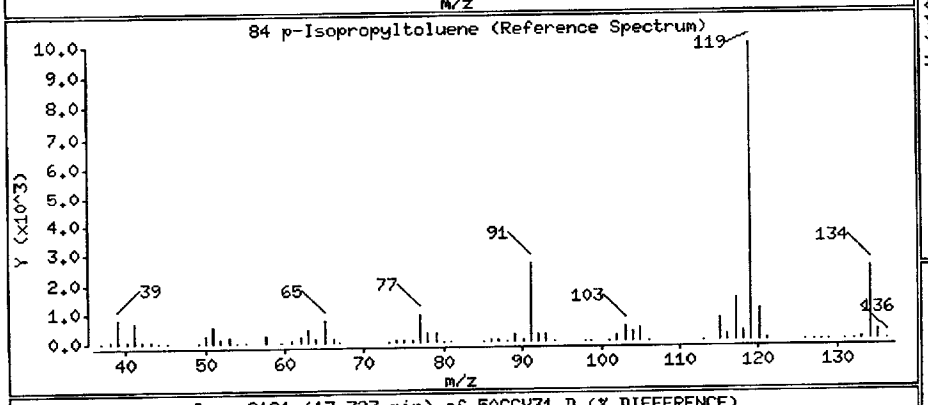
Column diameter: 0.18

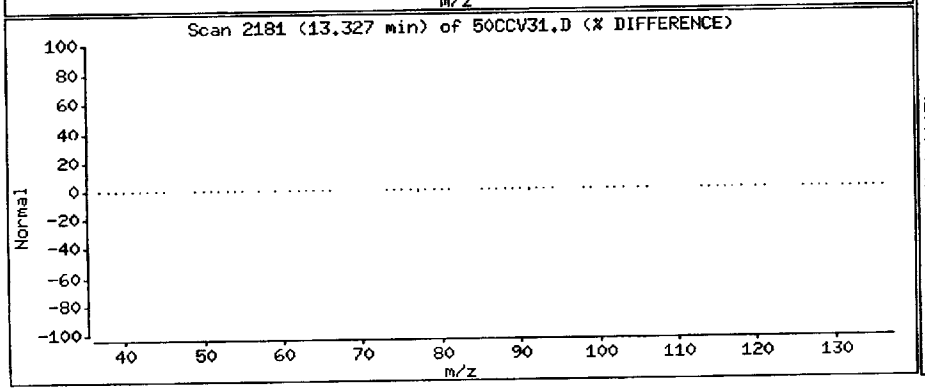
84 p-Isopropyltoluene

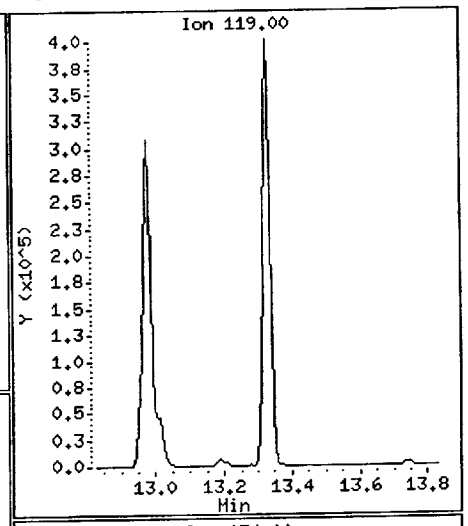
Concentration: 52.6 ug/l

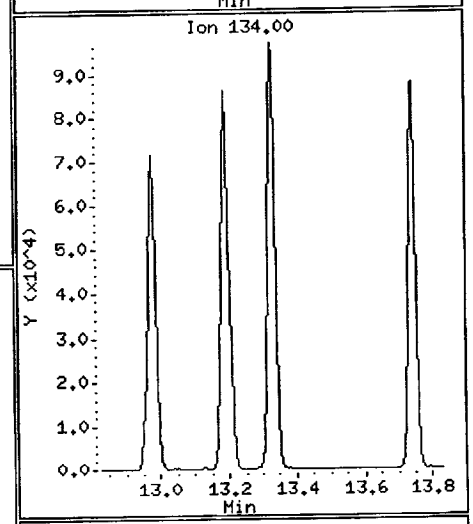


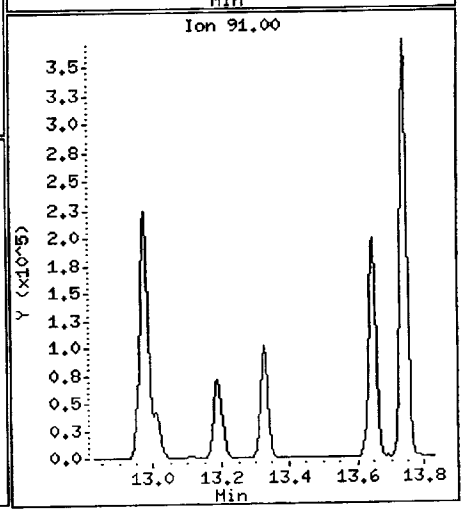












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Date : 25-SEP-2002 06:02

Client ID: 092502CCVA31

Instrument: vms03.i

Sample Info: 092502CCVA31

Purge Volume: 5.0

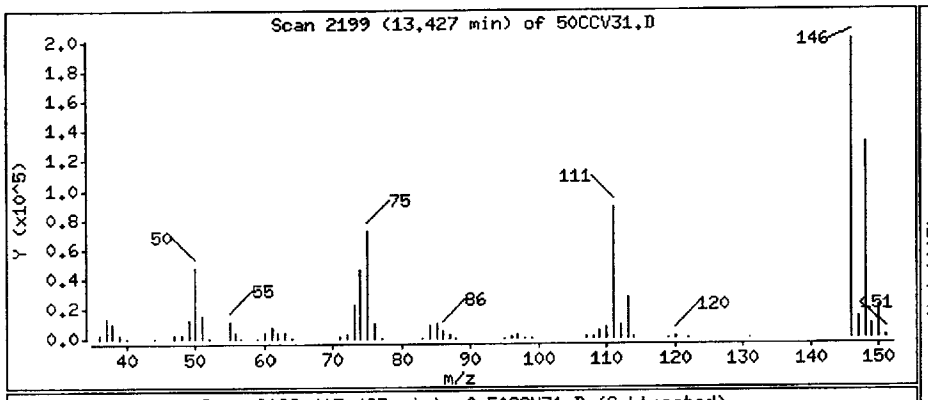
Operator:

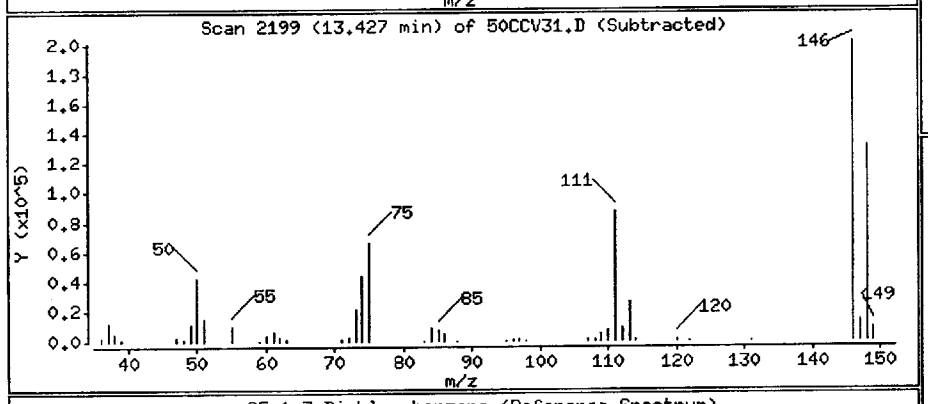
Column phase: DB-624

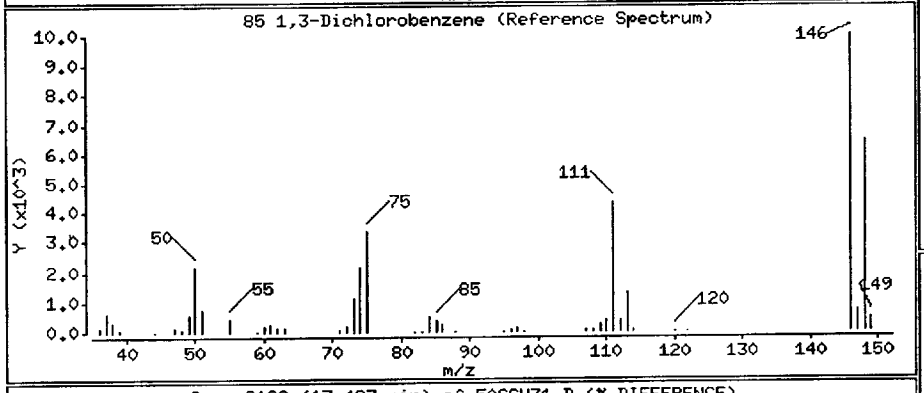
Column diameter: 0.18

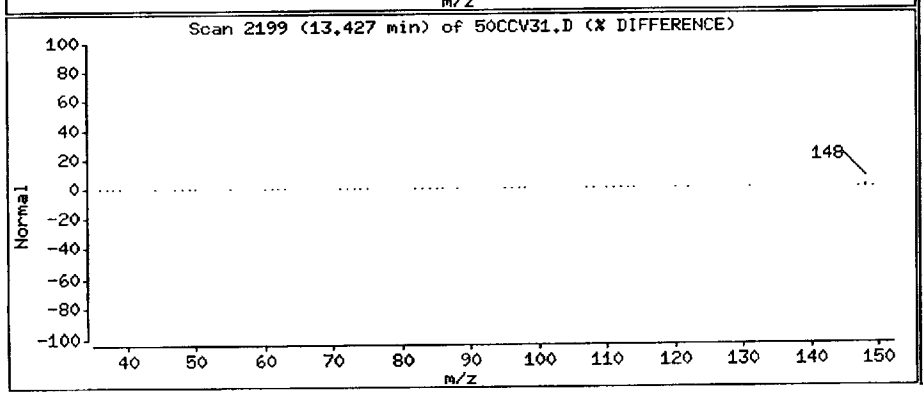
85 1,3-Dichlorobenzene

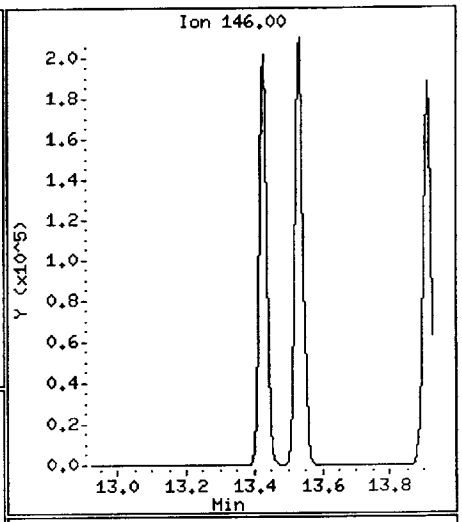
Concentration: 52.0 ug/l

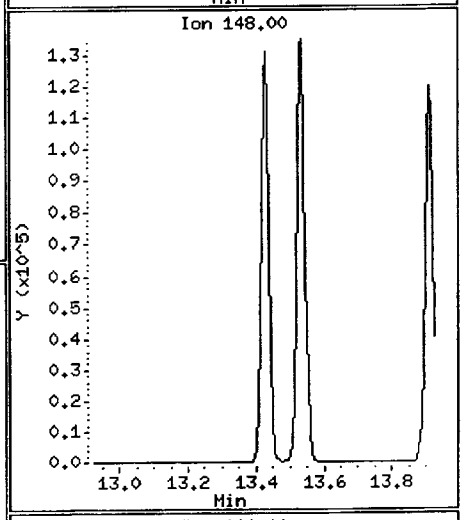


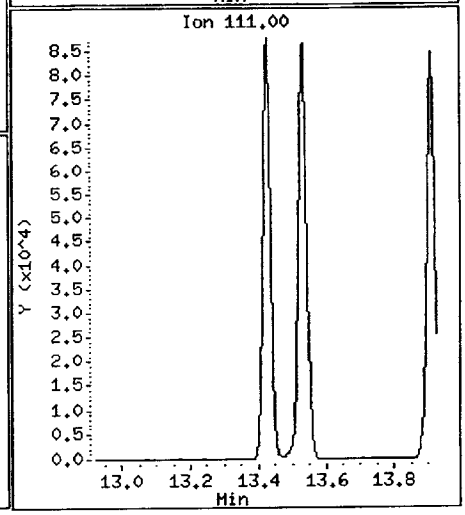












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Date : 25-SEP-2002 06:02

Client ID: 092502CCVA31

Instrument: vms03.i

Sample Info: 092502CCVA31

Purge Volume: 5.0

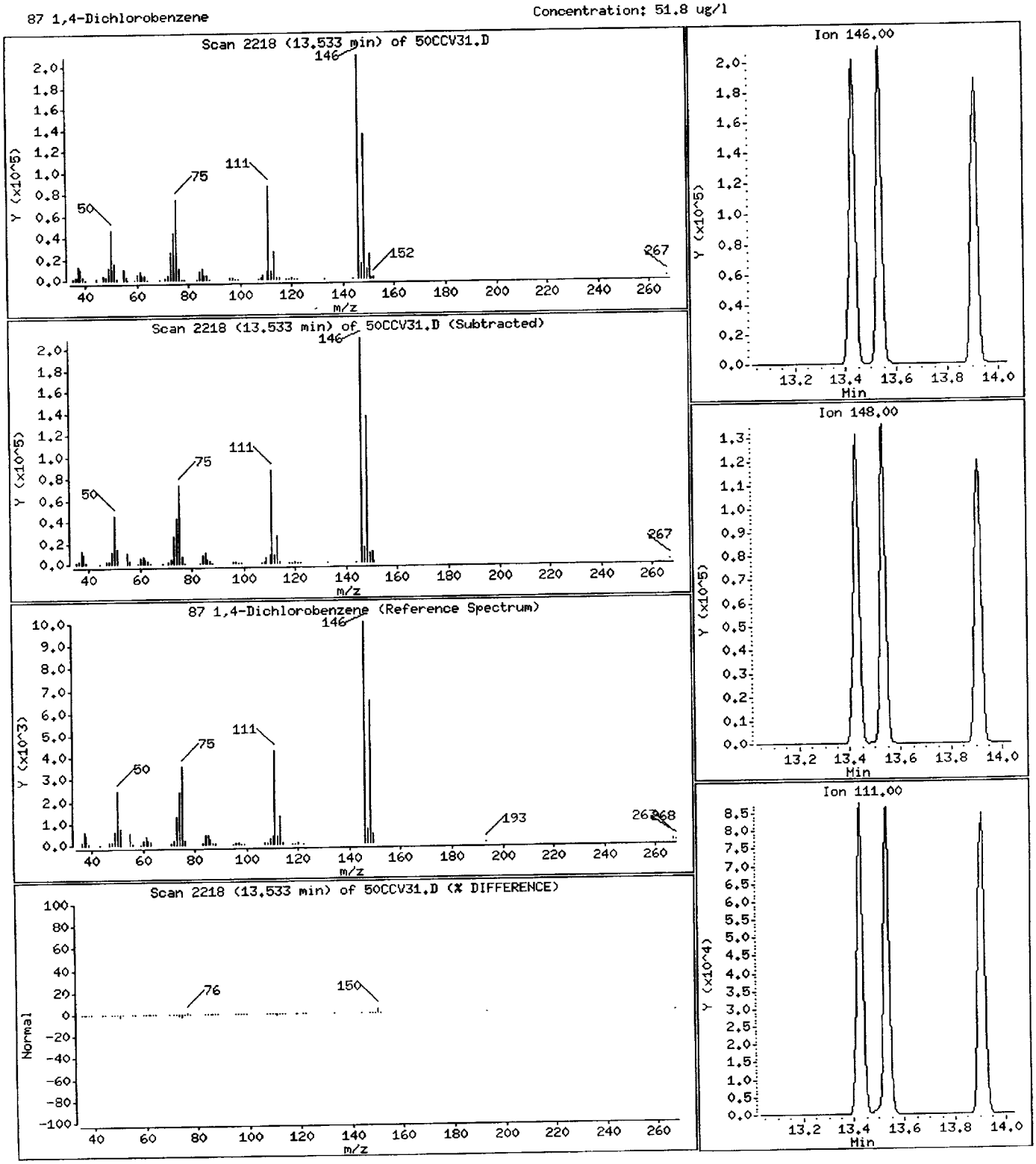
Operator:

Column phase: DB-624

Column diameter: 0.18

87 1,4-Dichlorobenzene

Concentration: 51.8 ug/l



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Date : 25-SEP-2002 06:02

Client ID: 092502CCVA31

Instrument: vms03.i

Sample Info: 092502CCVA31

Purge Volume: 5.0

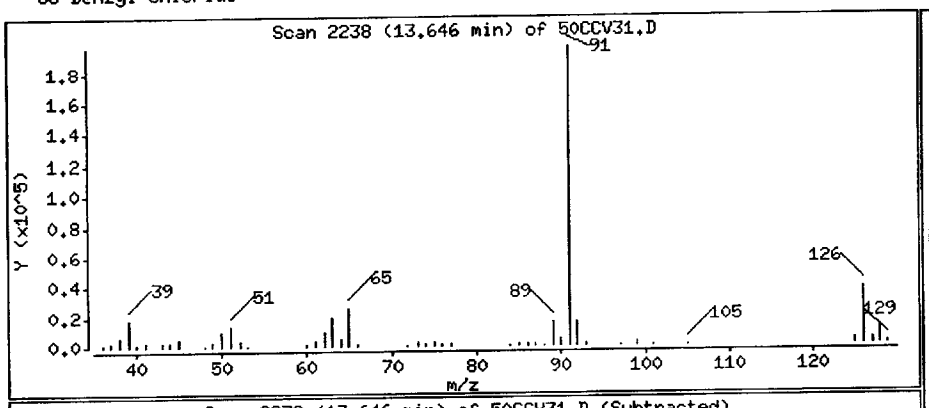
Operator:

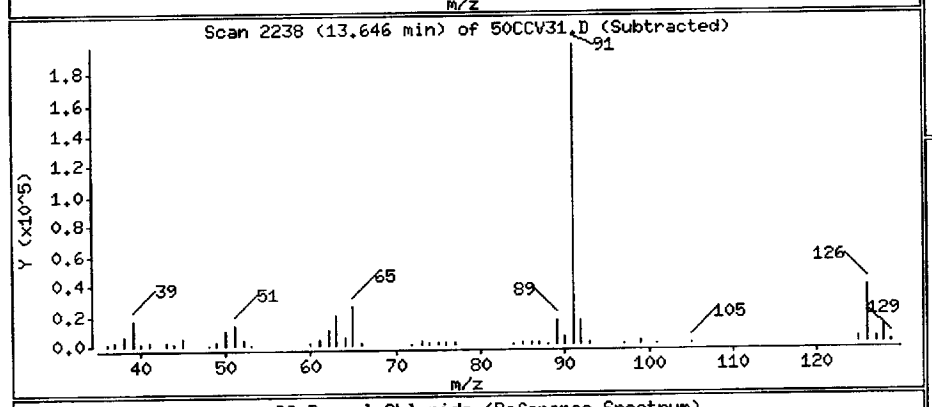
Column phase: DB-624

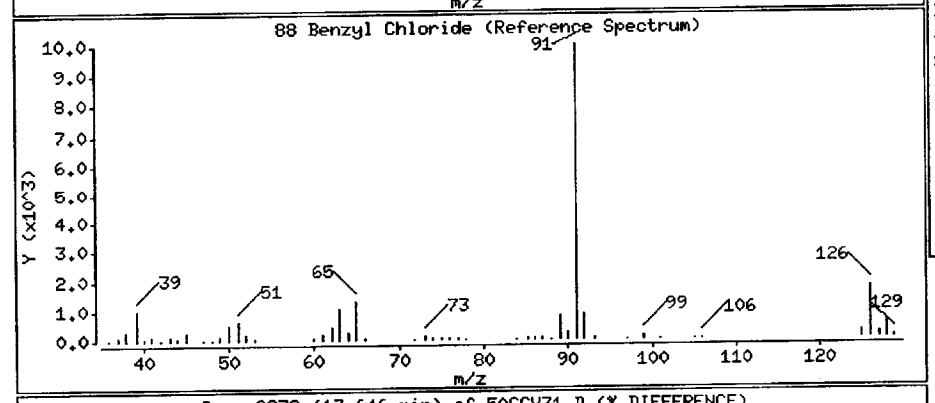
Column diameter: 0.18

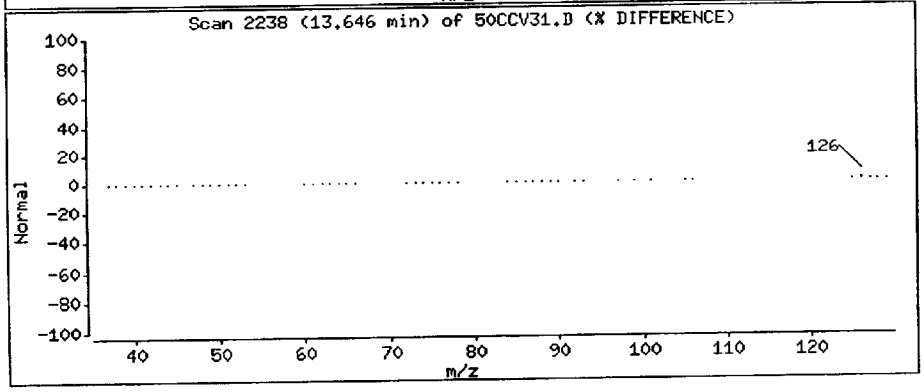
88 Benzyl Chloride

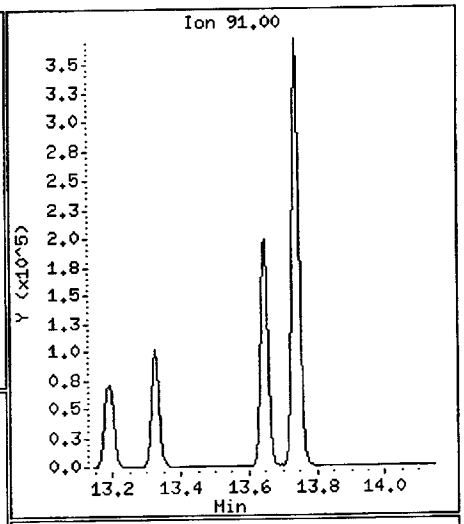
Concentration: 53.6 ug/l

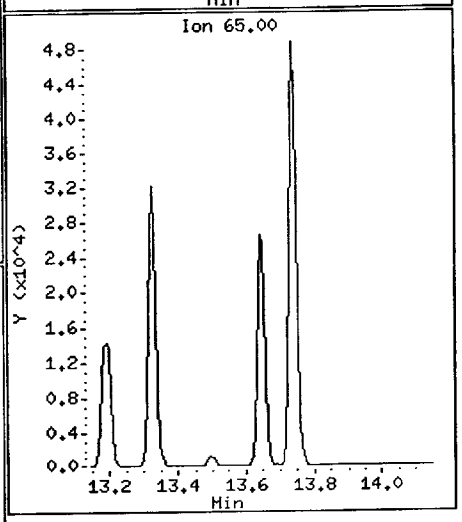












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Date : 25-SEP-2002 06:02

Client ID: 092502CCVA31

Instrument: vms03.i

Sample Info: 092502CCVA31

Purge Volume: 5.0

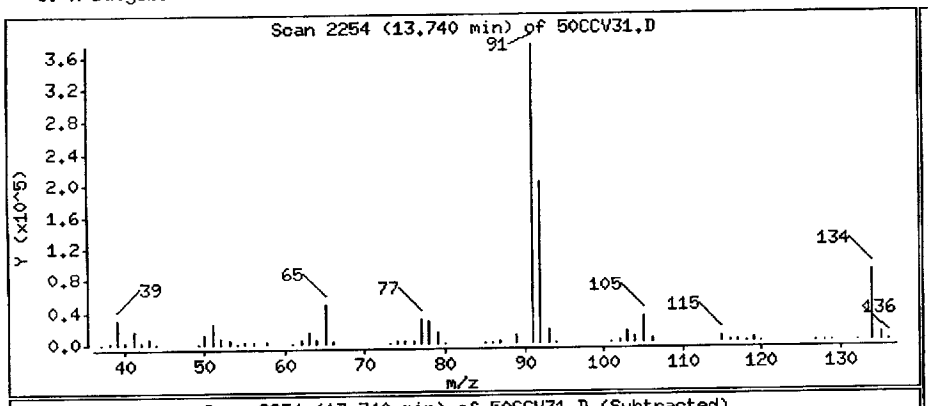
Operator:

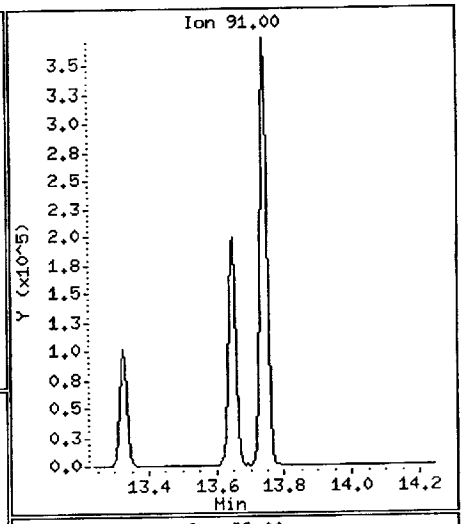
Column phase: DB-624

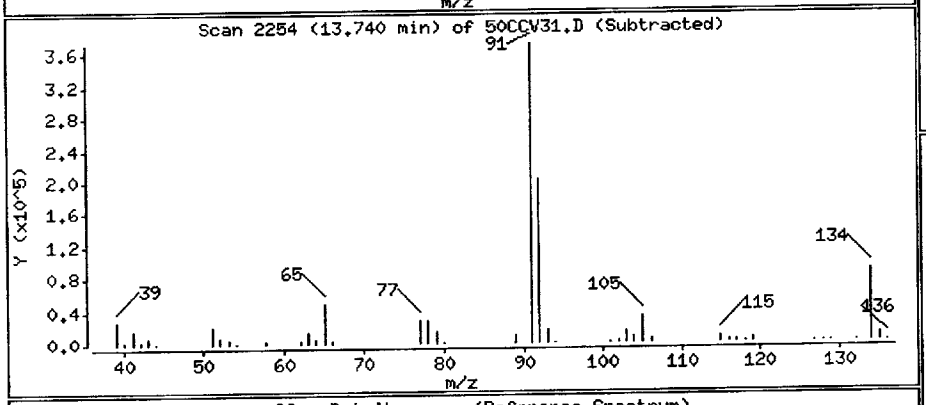
Column diameter: 0.18

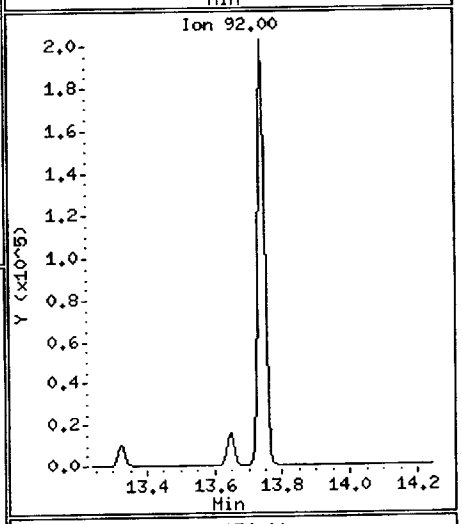
89 n-Butylbenzene

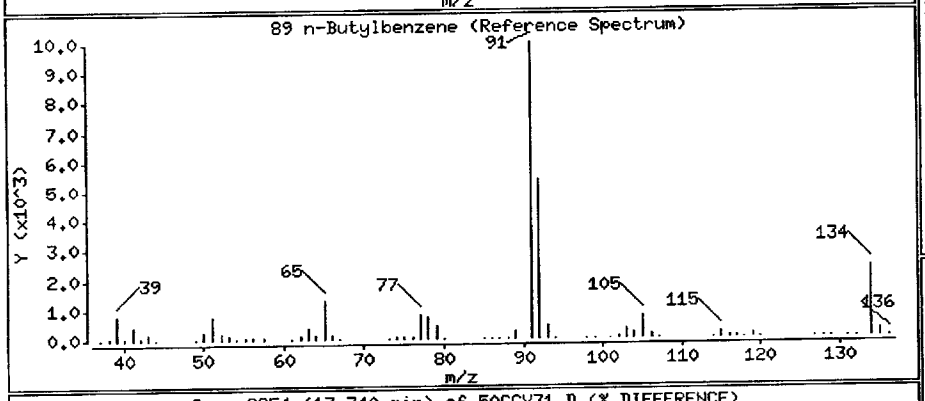
Concentration: 52.3 ug/l

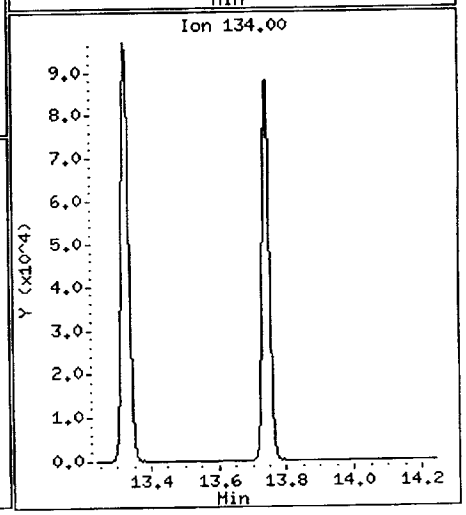


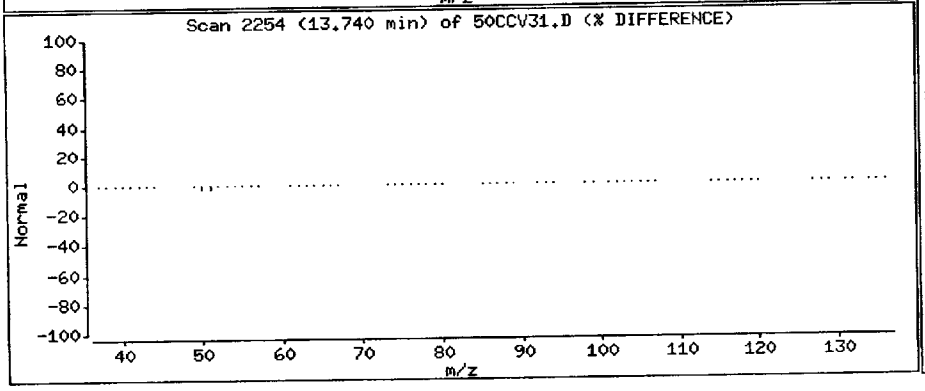












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\50CCV31.D

Date : 25-SEP-2002 06:02

Client ID: 092502CCVA31

Instrument: vms03.i

Sample Info: 092502CCVA31

Purge Volume: 5.0

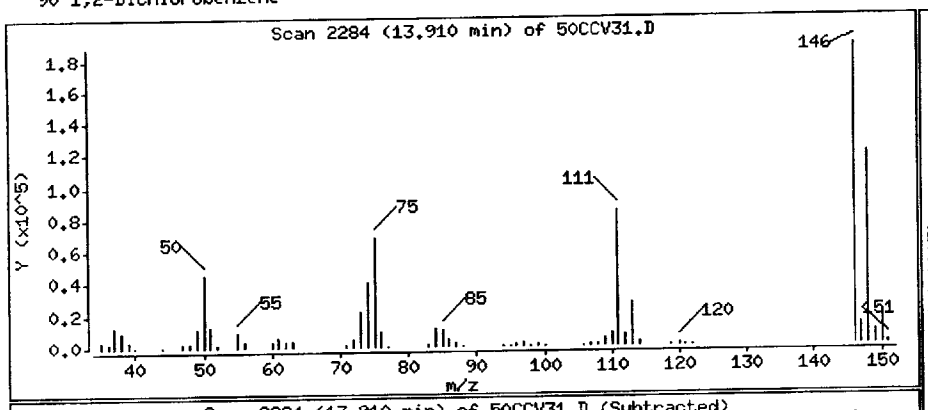
Operator:

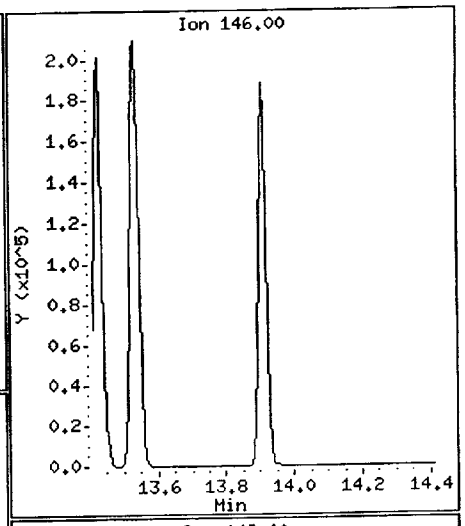
Column phase: DB-624

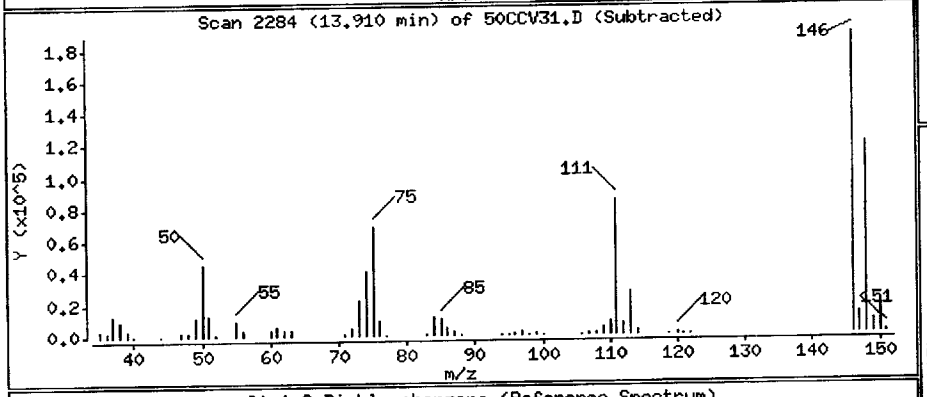
Column diameter: 0.18

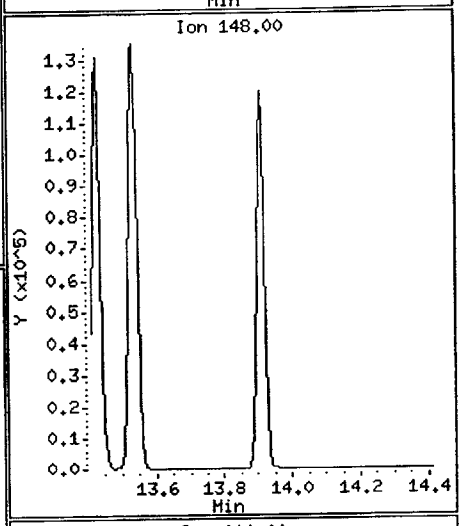
90 1,2-Dichlorobenzene

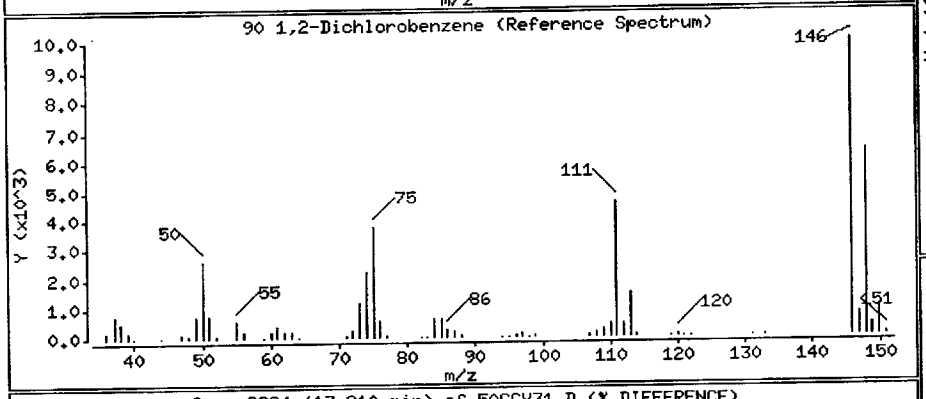
Concentration: 51.2 ug/l

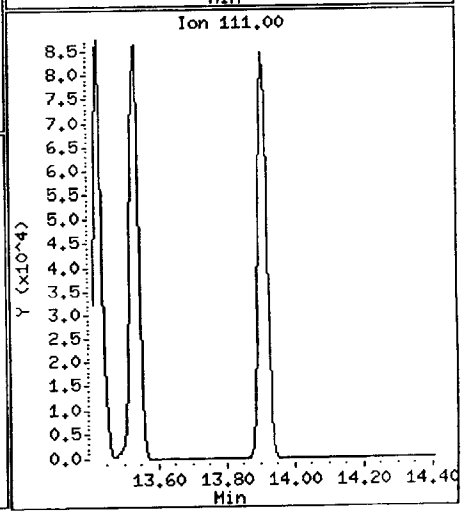


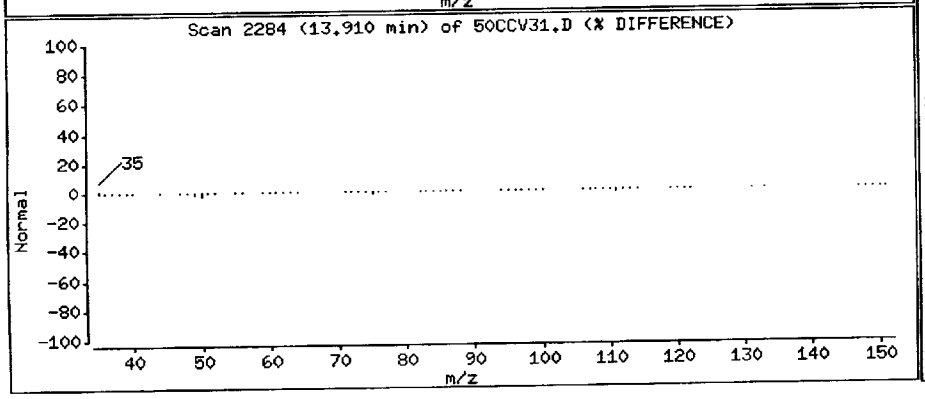












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\50CCV31.D

Date : 25-SEP-2002 06:02

Client ID: 092502CCVA31

Instrument: vms03.i

Sample Info: 092502CCVA31

Purge Volume: 5.0

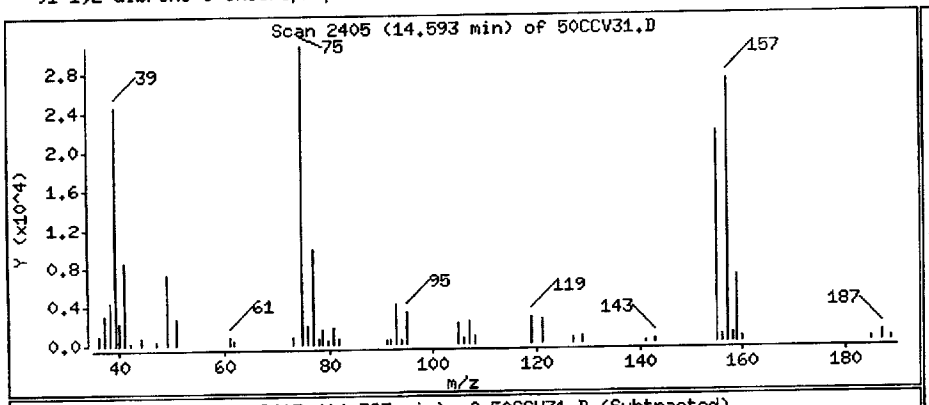
Operator:

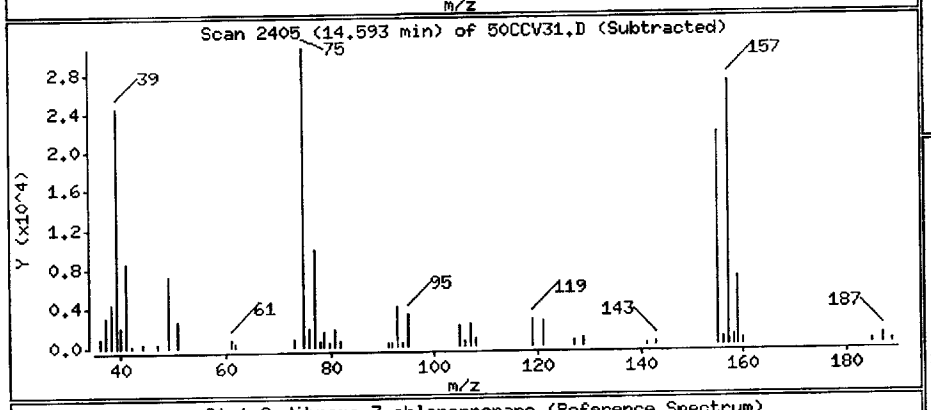
Column phase: DB-624

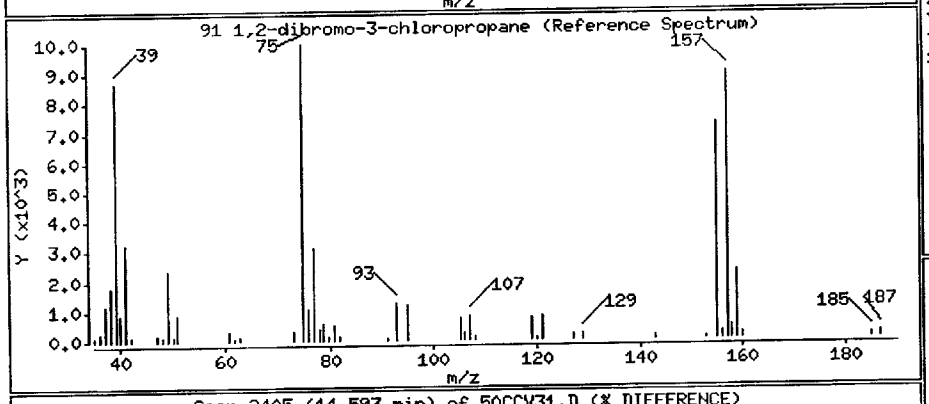
Column diameter: 0.18

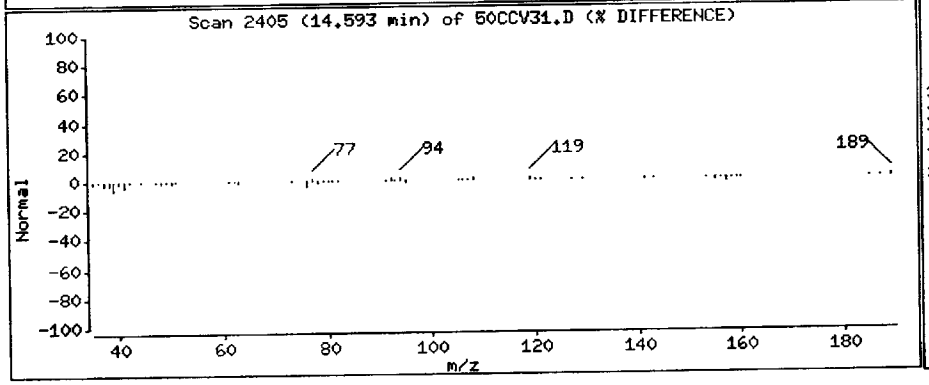
91 1,2-dibromo-3-chloropropane

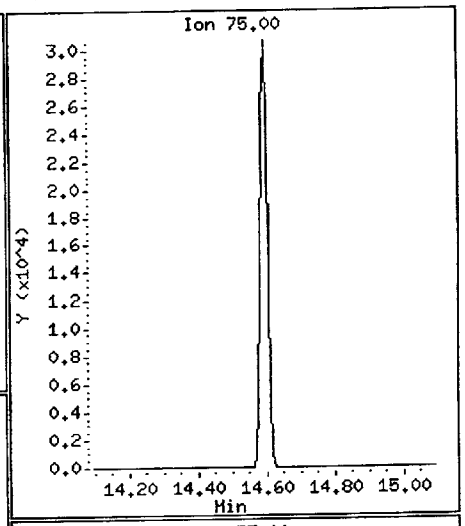
Concentration: 53.1 ug/l

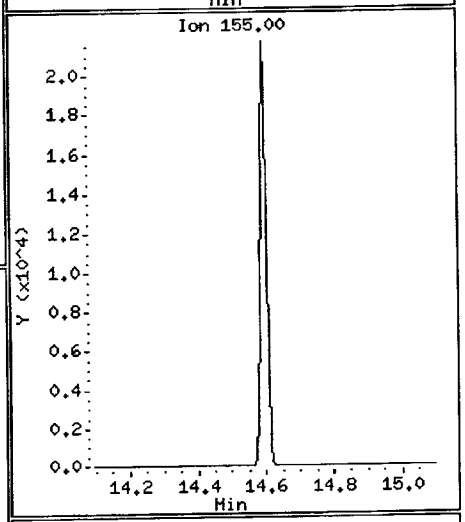


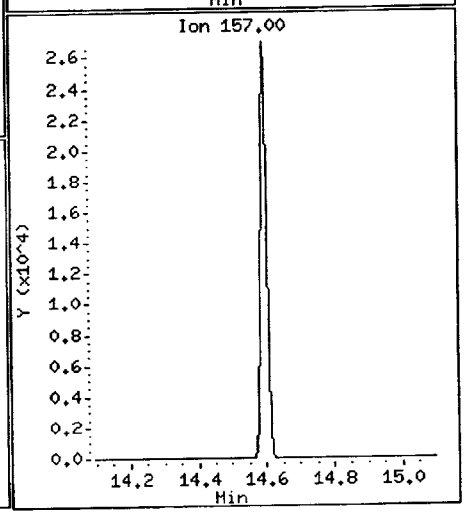












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\50CCV31.D

Date : 25-SEP-2002 06:02

Client ID: 092502CCVA31

Instrument: vms03.i

Sample Info: 092502CCVA31

Purge Volume: 5.0

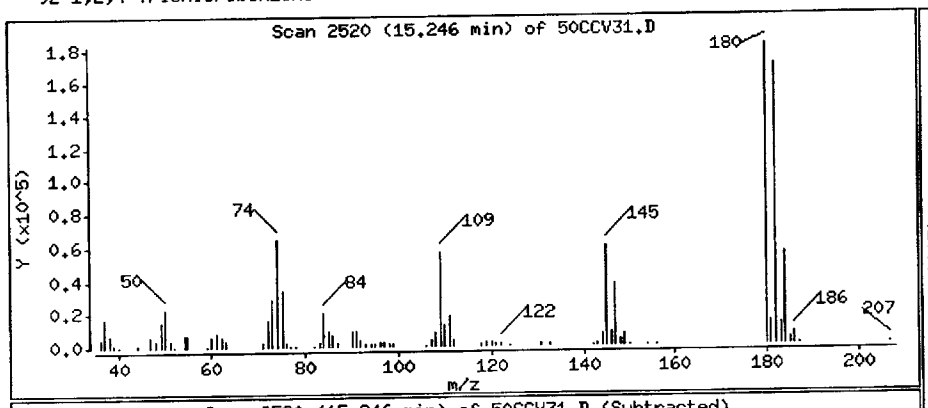
Operator:

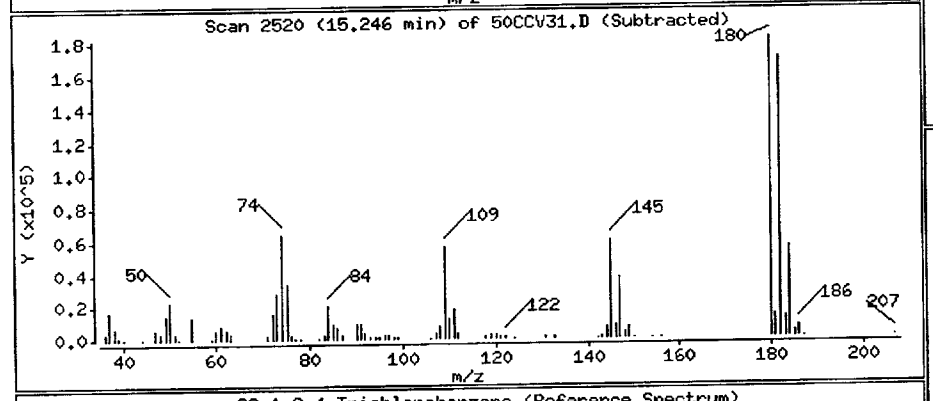
Column phase: DB-624

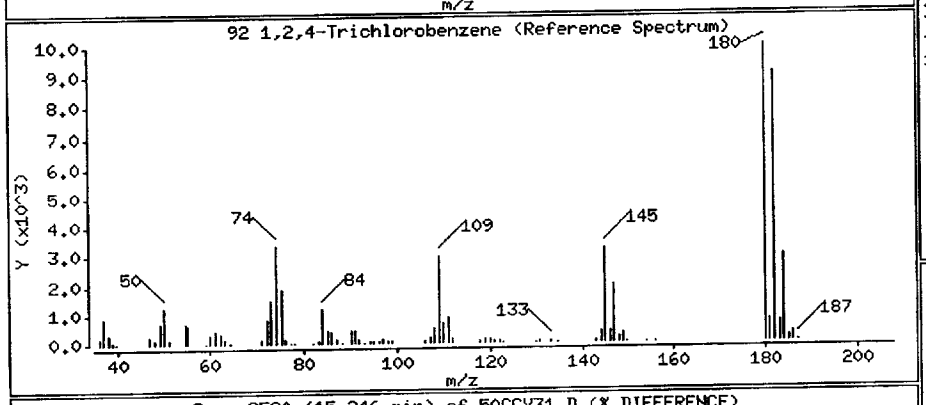
Column diameter: 0.18

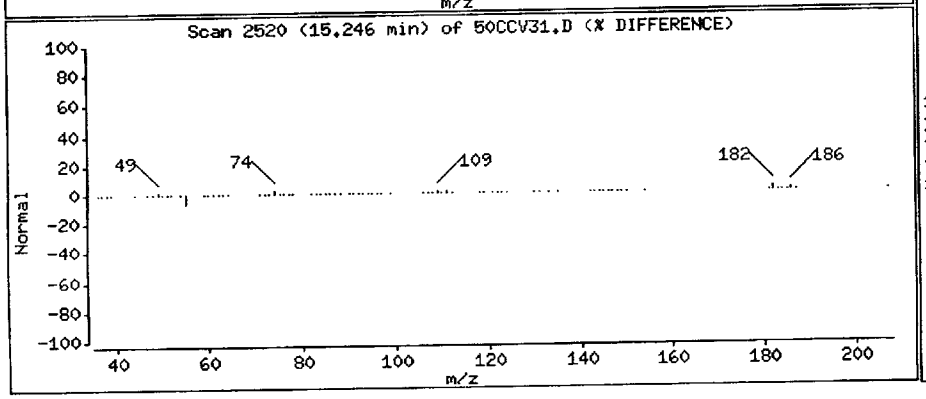
92 1,2,4-Trichlorobenzene

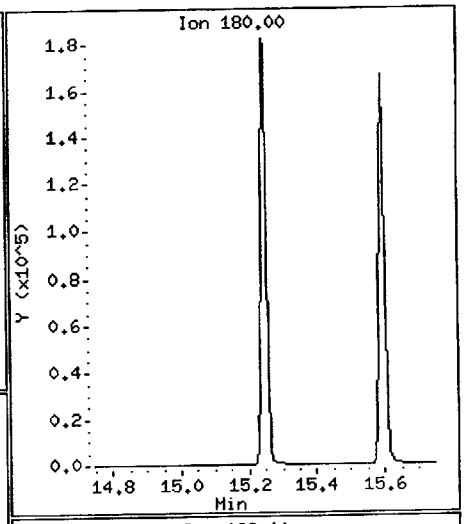
Concentration: 52.8 ug/l

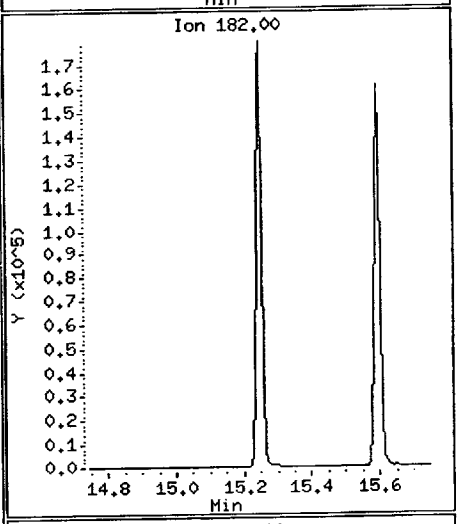


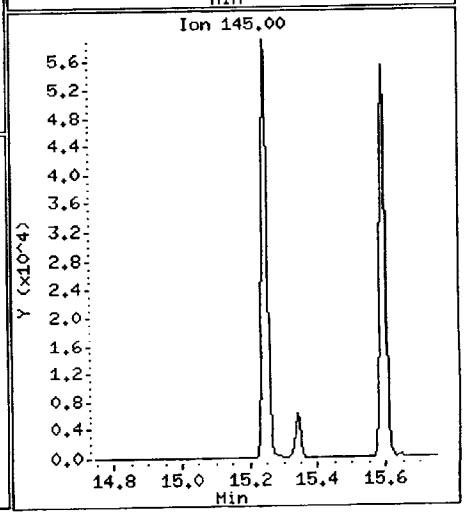












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\50CCV31.D

Date : 25-SEP-2002 06:02

Client ID: 092502CCVA31

Instrument: vms03.i

Sample Info: 092502CCVA31

Purge Volume: 5.0

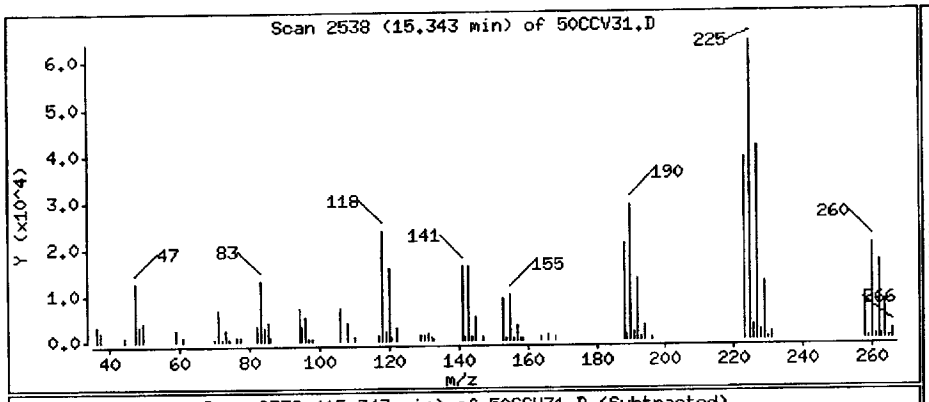
Operator:

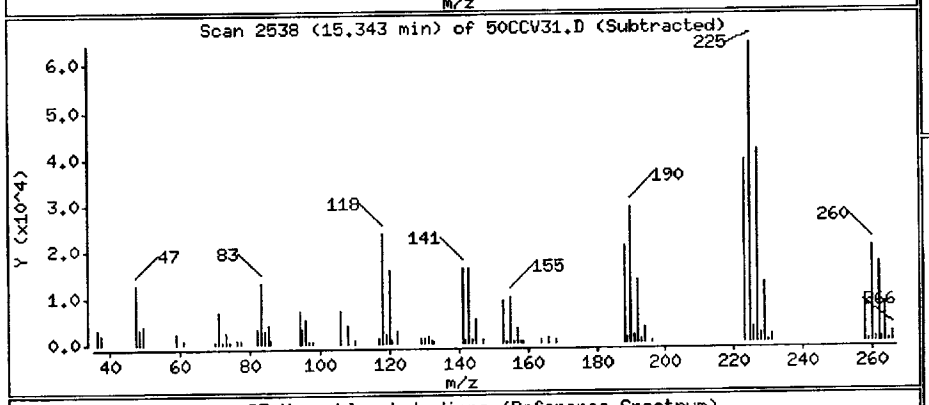
Column phase: DB-624

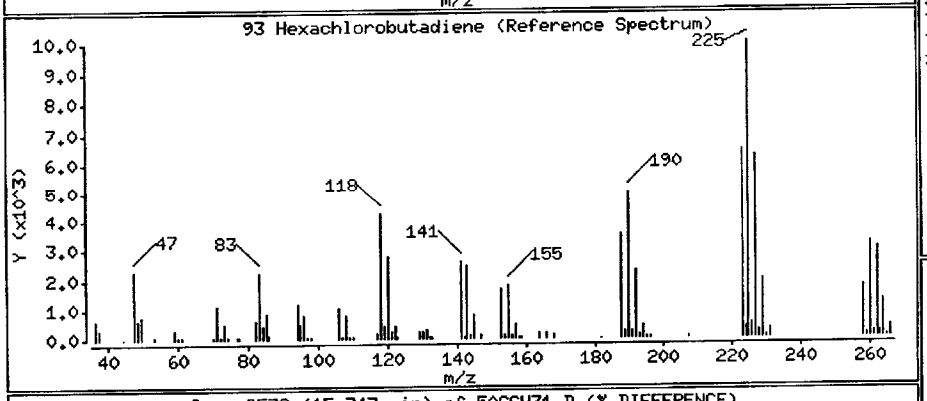
Column diameter: 0.18

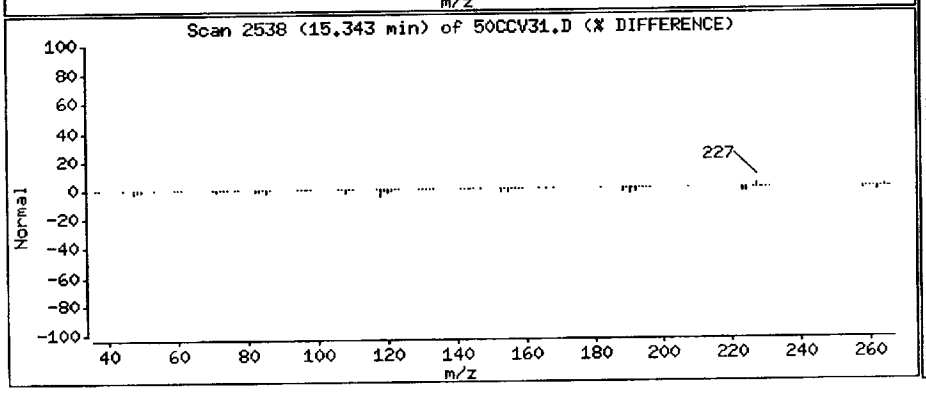
93 Hexachlorobutadiene

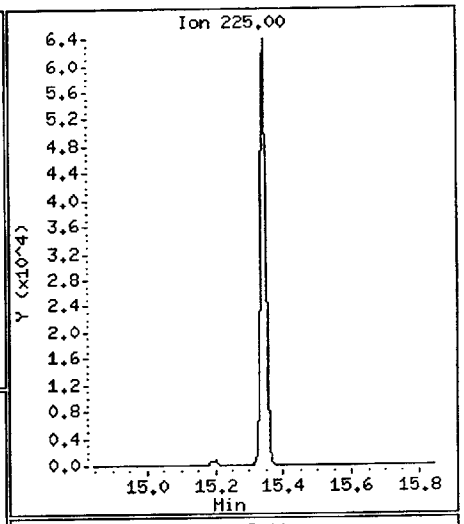
Concentration: 50.7 ug/l

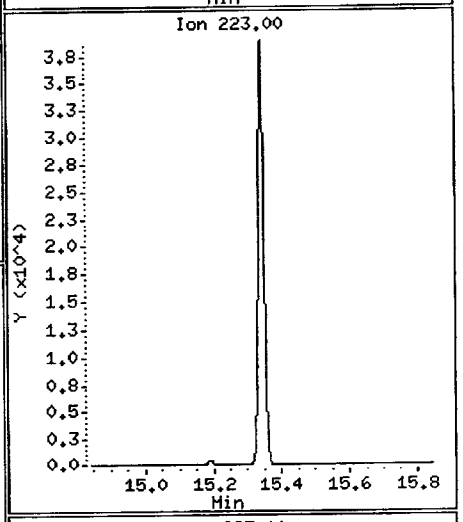


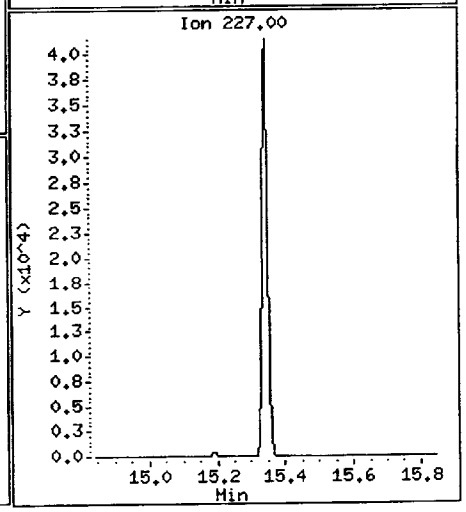












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\50CCV31.D

Date : 25-SEP-2002 06:02

Client ID: 092502CCVA31

Instrument: vms03.i

Sample Info: 092502CCVA31

Purge Volume: 5.0

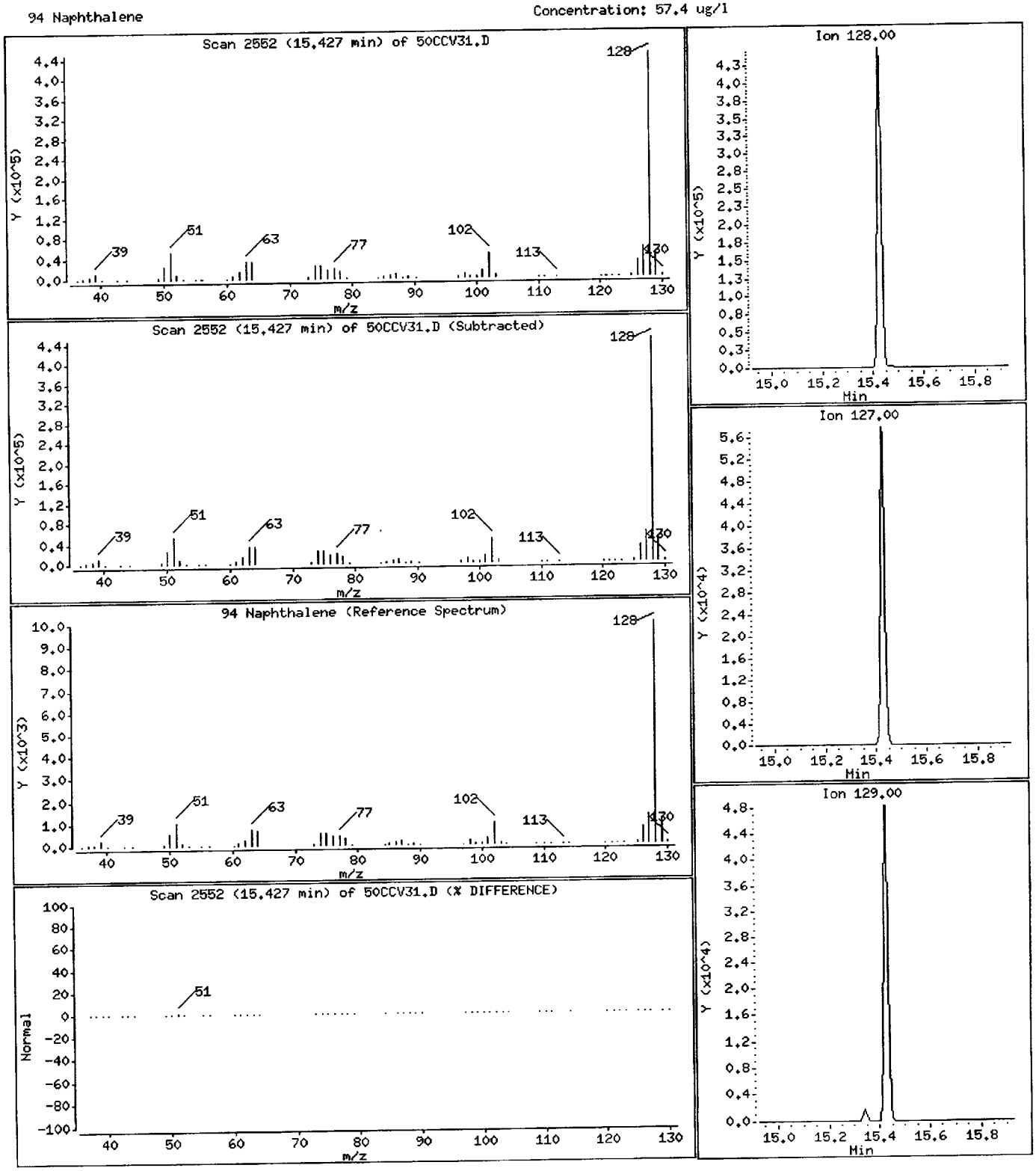
Operator:

Column phase: DB-624

Column diameter: 0.18

94 Naphthalene

Concentration: 57.4 ug/l



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Date : 25-SEP-2002 06:02

Client ID: 092502CCVA31

Instrument: vms03.i

Sample Info: 092502CCVA31

Purge Volume: 5.0

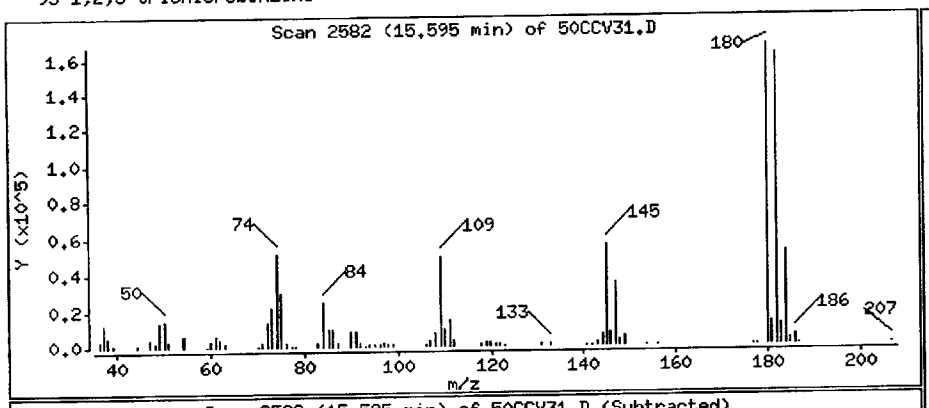
Operator:

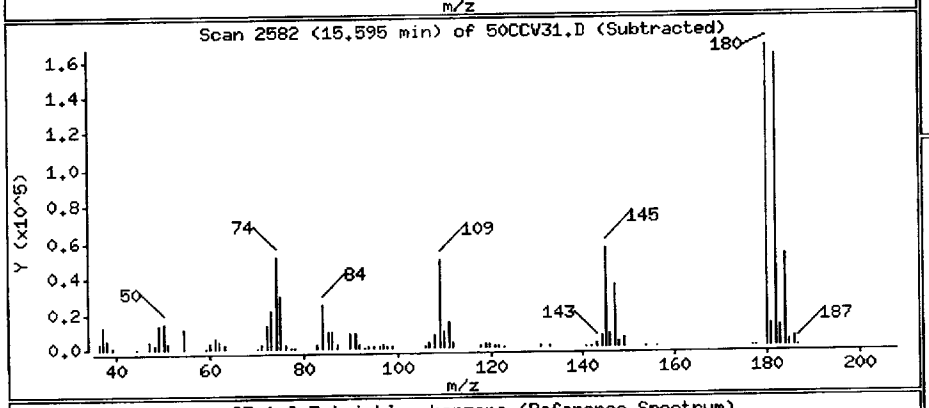
Column phase: DB-624

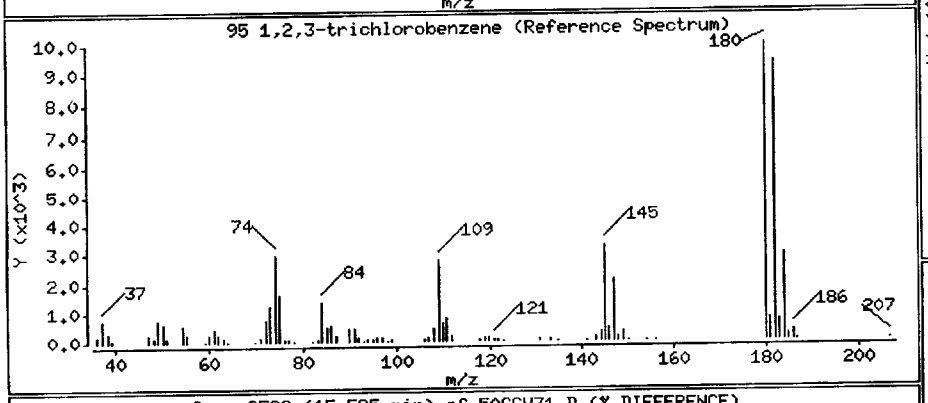
Column diameter: 0.18

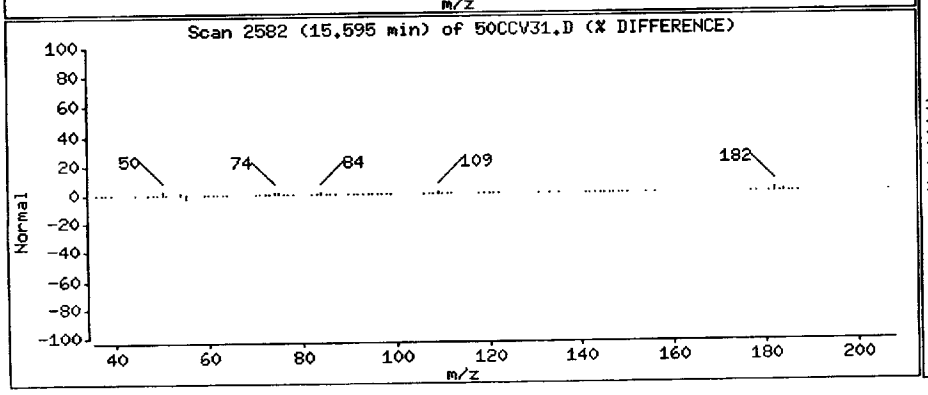
95 1,2,3-trichlorobenzene

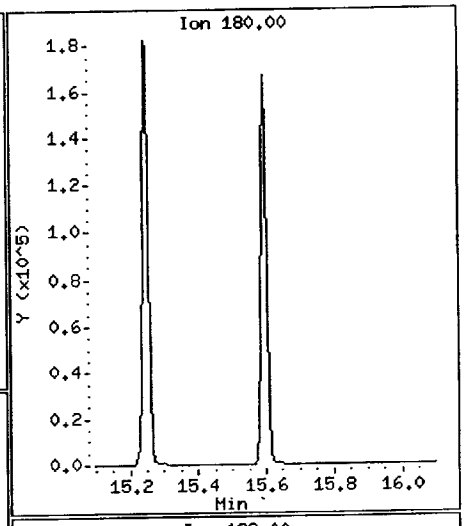
Concentration: 54.1 ug/l

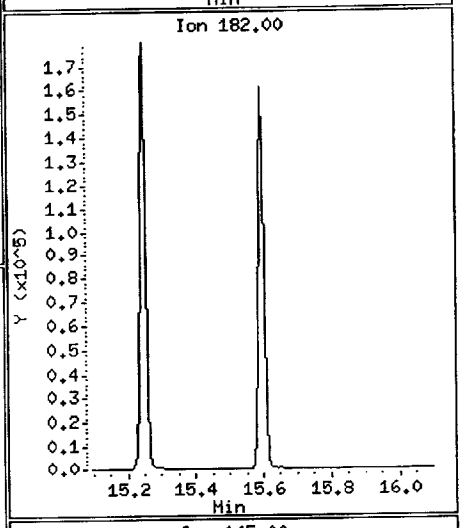


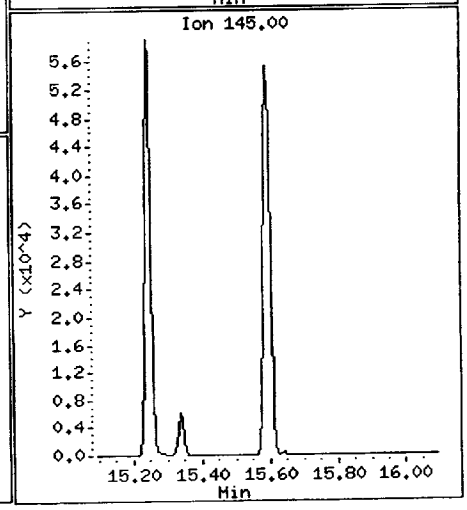












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\LCS31.D
Report Date: 26-Sep-2002 08:45

PEL Laboratories, Inc.

Data file : \\Vms03\dd\chem\vms03.i\M3092502.b\LCS31.D
Lab Smp Id: 092502LCSA31 — Client Smp ID: 092502LCSA31
Inj Date : 25-SEP-2002 06:26 — MS Autotune Date: 29-OCT-2001 10:36
Operator : — Inst ID: vms03.i
Smp Info : 092502LCSA31
Misc Info :
Comment :
Method : \\VMS03\dd\chem\vms03.i\M3092502.b\8260A.m
Meth Date : 26-Sep-2002 08:44 lpelo — Quant Type: ISTD
Cal Date : 27-AUG-2002 09:41 — Cal File: 80PPB.D
Als bottle: 3 — QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP Genie — Compound Sublist: all.sub
Target Version: 4.04 — Sample Matrix: WATER
Processing Host: PELCOMP01

Concentration Formula: Amt * DF * Vf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	Final Volume
Vo	5.000	Sample Volume

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/l)	FINAL (ug/l)	TARGET RANGE	RATIO
M 1 1,2-Dichloroethene (Total)						CAS #: 540-59-0		
				177722	41.5286	41.5		
M 2 Xylenes (Total)						CAS #: 1330-20-7		
				467358	62.2557	62.2		
M 3 Trihalomethanes (Total)						CAS #: THM		
				302245	80.4851	80.5		
4 Dichlorodifluoromethane						CAS #: 75-71-8		
1.638	1.637	(0.210)	85	87424	16.8836	16.9	70.00- 130.00	100.00
1.641	1.636	(0.211)	87	27976			0.55- 60.55	32.00
5 Chloromethane						CAS #: 74-87-3		
1.854	1.855	(0.238)	50	109276	17.2201	17.2	70.00- 130.00	100.00

Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\LCS31.D
Report Date: 26-Sep-2002 08:45

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/l)	FINAL (ug/l)	TARGET RANGE	RATIO
5 Chloromethane (continued)								
1.855	1.855	(0.238)	52	33949			1.93- 61.93	31.07
6 Vinyl Chloride							CAS #: 75-01-4	
1.977	1.977	(0.254)	62	78765	17.3630	17.4	70.00- 130.00	100.00
1.978	1.976	(0.254)	64	24609			0.00- 59.68	31.24
7 Bromomethane							CAS #: 74-83-9	
2.447	2.447	(0.314)	94	48942			70.00- 130.00	100.00
2.445	2.446	(0.314)	96	45155	19.3564	19.4	61.69- 121.69	92.26
8 Chloroethane							CAS #: 75-00-3	
2.558	2.556	(0.328)	64	53521	18.8474	18.8	70.00- 130.00	100.00
2.560	2.556	(0.329)	66	17370			0.84- 60.84	32.45
9 Trichlorofluoromethane							CAS #: 75-69-4	
2.843	2.839	(0.365)	101	77482	19.7265	19.7	70.00- 130.00	100.00
2.837	2.841	(0.364)	103	30667			34.18- 94.18	39.58
2.841	2.836	(0.365)	66	11495			0.00- 43.49	14.84
10 Acrolein							CAS #: 107-02-8	
3.363	3.359	(0.432)	56	31296	56.9244	56.9	70.00- 130.00	100.00
3.363	3.355	(0.432)	55	21656			36.36- 96.36	69.20
11 1,1,2 Trichlorotrifluoromethane							CAS #: 76-13-1	
3.446	3.444	(0.442)	101	63274	21.0892	21.1	70.00- 130.00	100.00
3.454	3.452	(0.443)	151	45606			43.92- 103.92	72.08
3.444	3.452	(0.442)	103	39851			34.95- 94.95	62.98
12 Acetone							CAS #: 67-64-1	
3.459	3.458	(0.444)	43	71011	57.9324	57.9	70.00- 130.00	100.00
3.465	3.461	(0.445)	58	20489			0.00- 57.34	28.85
13 1,1-Dichloroethene							CAS #: 75-35-4	
3.663	3.663	(0.470)	61	114290	19.5952	19.6	70.00- 130.00	100.00
3.667	3.662	(0.471)	96	54538			17.54- 77.54	47.72
3.664	3.661	(0.470)	98	35462			0.72- 60.72	31.03
14 Acetonitrile							CAS #: 75-05-8	
3.844	3.838	(0.493)	41	93632	187.190	187	70.00- 130.00	100.00
3.842	3.836	(0.493)	40	49209			23.14- 83.14	52.56
3.843	3.839	(0.493)	39	17710			0.00- 49.01	18.91
15 Iodomethane							CAS #: 74-88-4	
4.128	4.131	(0.530)	142	99257	18.8657	18.9	70.00- 130.00	100.00
4.133	4.131	(0.530)	127	38498			9.89- 69.89	38.79

Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\LCS31.D
Report Date: 26-Sep-2002 08:45

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/l)	FINAL (ug/l)	TARGET RANGE	RATIO
15 Iodomethane (continued)								
4.127	4.137	(0.530)	141	12839			0.00- 43.90	12.94
16 Methyl Acetate						CAS #: 79-20-9		
4.184	4.179	(0.537)	43	61297	19.7966	19.8		
17 Allyl Chloride						CAS #: 107-05-1		
4.211	4.206	(0.540)	41	115915	20.0664	20.1	70.00- 130.00	100.00
4.210	4.208	(0.540)	39	73814			35.11- 95.11	63.68
4.214	4.208	(0.541)	78	9360			0.00- 38.30	8.07
18 Carbon Disulfide						CAS #: 75-15-0		
4.375	4.372	(0.561)	76	213068	18.2805	18.3	70.00- 130.00	100.00
4.376	4.375	(0.562)	78	18193			0.00- 39.05	8.54
19 Methylene Chloride						CAS #: 75-09-2		
4.447	4.444	(0.571)	84	69306			70.00- 130.00	100.00
4.447	4.444	(0.571)	49	120137	18.9656	19.0	144.57- 204.57	173.34
4.449	4.444	(0.571)	51	22807			18.00- 78.00	32.91
20 Acrylonitrile						CAS #: 107-13-1		
4.596	4.593	(0.590)	53	86035	62.3415	62.3	70.00- 130.00	100.00
4.598	4.594	(0.590)	52	71863			52.89- 112.89	83.53
4.597	4.595	(0.590)	51	33110			9.94- 69.94	38.48
21 Methyl-tert-butyl ether						CAS #: 1634-04-4		
4.680	4.667	(0.601)	73	199774	18.8885	18.9	70.00- 130.00	100.00
4.675	4.665	(0.600)	57	52440			0.00- 55.32	26.25
22 trans 1,2-Dichloroethene						CAS #: 156-60-5		
4.850	4.847	(0.622)	96	61268			70.00- 130.00	100.00
4.850	4.846	(0.622)	61	108861	20.7562	20.8	147.92- 207.92	177.68
4.852	4.847	(0.623)	98	38881			34.16- 94.16	63.46
23 1,1-Dichloroethane						CAS #: 75-34-3		
5.498	5.495	(0.706)	63	134670	20.5034	20.5	70.00- 130.00	100.00
5.496	5.494	(0.705)	65	40791			0.48- 60.48	30.29
5.493	5.495	(0.705)	83	14105			0.00- 41.53	10.47
24 Vinyl Acetate						CAS #: 108-05-4		
5.546	5.542	(0.712)	43	176027	18.4516	18.4	70.00- 130.00	100.00
5.555	5.543	(0.713)	86	12175			0.00- 36.86	6.92
25 Chloroprene						CAS #: 126-99-8		
5.633	5.631	(0.723)	53	75577	20.6290	20.6	70.00- 130.00	100.00
5.636	5.631	(0.723)	88	33308			12.64- 72.64	44.07

Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\LCS31.D
Report Date: 26-Sep-2002 08:45

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/l)	FINAL (ug/l)	TARGET RANGE	RATIO
25 Chloroprene (continued)								
5.632	5.631	(0.723)	90	10075			0.00- 42.85	13.33
26 2-Butanone						CAS #: 78-93-3		
6.125	6.121	(0.786)	43	101654	57.3194	57.3	70.00- 130.00	100.00
6.125	6.121	(0.786)	72	19109			0.00- 48.66	18.80
27 Propionitrile						CAS #: 107-12-0		
6.206	6.202	(0.796)	54	105646	201.285	201	70.00- 130.00	100.00
6.203	6.203	(0.796)	52	21711			0.00- 50.80	20.55
6.203	6.202	(0.796)	55	17644			0.00- 46.22	16.70
28 2,2-Dichloropropane						CAS #: 594-20-7		
6.281	6.279	(0.806)	77	67176	20.1607	20.2	70.00- 130.00	100.00
6.283	6.278	(0.806)	79	21120			1.13- 61.13	31.44
6.283	6.282	(0.806)	97	14177			0.00- 46.48	21.10
29 cis-1,2-Dichloroethene						CAS #: 156-59-2		
6.334	6.333	(0.813)	96	68861	20.7725	20.8	70.00- 130.00	100.00
6.335	6.333	(0.813)	61	120649			138.35- 198.35	175.21
6.336	6.332	(0.813)	98	43269			33.14- 93.14	62.84
30 Methyacrylonitrile						CAS #: 126-98-7		
6.466	6.463	(0.830)	67	256155	199.322	199	70.00- 130.00	100.00
6.465	6.464	(0.830)	66	91364			5.60- 65.60	35.67
6.465	6.463	(0.830)	52	131237			19.69- 79.69	51.23
31 Isobutyl Alcohol						CAS #: 78-83-1		
6.540	6.530	(0.839)	43	66957	412.986	413	70.00- 130.00	100.00
6.537	6.530	(0.839)	42	43199			32.37- 92.37	64.52
6.535	6.524	(0.839)	41	71781			82.09- 142.09	107.20
32 Chloroform						CAS #: 67-66-3		
6.541	6.540	(0.839)	83	123369	20.5828	20.6	70.00- 130.00	100.00
6.541	6.541	(0.839)	85	78977			35.25- 95.25	64.02
6.538	6.539	(0.839)	47	35207			0.00- 59.31	28.54
33 Bromochloromethane						CAS #: 74-97-5		
6.736	6.736	(0.864)	128	30331	21.0227	21.0	70.00- 130.00	100.00
6.735	6.735	(0.864)	49	78769			225.60- 285.60	259.70
6.739	6.738	(0.865)	130	39542			97.87- 157.87	130.37
$ 34 DIBROMOFLUOROMETHANE (surr)						CAS #: 1868-53-7		
6.813	6.810	(0.874)	113	135367	48.4959	48.5	70.00- 130.00	100.00
6.812	6.811	(0.874)	111	142528			71.10- 131.10	105.29
6.817	6.812	(0.875)	192	26078			0.00- 48.24	19.26

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RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/l)	FINAL (ug/l)	TARGET RANGE	RATIO
35 1,1,1-Trichloroethane						CAS #: 71-55-6		
7.040	7.038	(0.903)	97	99838	20.6275	20.6	70.00- 130.00	100.00
7.040	7.036	(0.903)	99	63994			34.68- 94.68	64.10
7.035	7.039	(0.903)	117	10331			0.00- 41.74	10.35
36 Cyclohexane						CAS #: 110-82-7		
7.059	7.054	(0.906)	56	149088	20.0475	20.0	70.00- 130.00	100.00
7.060	7.057	(0.906)	84	101049			39.74- 99.74	67.78
7.057	7.056	(0.906)	41	91049			30.71- 90.71	61.07
37 1,1-Dichloropropene						CAS #: 563-58-6		
7.232	7.229	(0.928)	75	91095	20.0453	20.0	70.00- 130.00	100.00
7.234	7.231	(0.928)	77	28163			0.90- 60.90	30.92
7.233	7.230	(0.928)	110	28168			1.48- 61.48	30.92
38 Carbon tetrachloride						CAS #: 56-23-5		
7.340	7.339	(0.942)	117	76261	19.5823	19.6	70.00- 130.00	100.00
7.341	7.341	(0.942)	119	73094			67.59- 127.59	95.85
7.341	7.340	(0.942)	121	22826			0.64- 60.64	29.93
$ 39 1,2-DICHLOROETHANE d4 (surr)						CAS #: 17060-07-0		
7.416	7.416	(0.952)	102	34158	50.6795	50.7	70.00- 130.00	100.00
7.416	7.414	(0.952)	65	207247			587.58- 647.58	606.73
7.415	7.414	(0.952)	67	103291			285.16- 345.16	302.39
40 1,2-Dichloroethane						CAS #: 107-06-2		
7.526	7.524	(0.966)	62	115346	20.8569	20.8	70.00- 130.00	100.00
7.526	7.524	(0.966)	64	35666			1.49- 61.49	30.92
7.522	7.526	(0.965)	98	8055			0.00- 36.96	6.98
41 Benzene						CAS #: 71-43-2		
7.537	7.536	(0.967)	78	265879	19.9598	20.0	70.00- 130.00	100.00
7.537	7.536	(0.967)	52	57365			0.00- 50.97	21.58
7.538	7.536	(0.967)	77	63683			0.00- 53.15	23.95
* 42 FLUOROBENZENE (IS)						CAS #: 462-06-6		
7.793	7.791	(1.000)	96	556405	50.0000		70.00- 130.00	100.00
7.793	7.792	(1.000)	70	119664			0.00- 51.39	21.51
7.791	7.792	(1.000)	50	81851			0.00- 44.57	14.71
43 Trichloroethylene						CAS #: 79-01-6		
8.239	8.237	(1.057)	130	63208	21.0155	21.0	70.00- 130.00	100.00
8.236	8.236	(1.057)	95	66646			79.37- 139.37	105.44
8.238	8.235	(1.057)	97	43436			40.66- 100.66	68.72
44 Methyl Cyclohexane						CAS #: 108-87-2		
8.312	8.312	(1.067)	83	114874			70.00- 130.00	100.00

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RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/l)	CONCENTRATIONS FINAL (ug/l)	TARGET RANGE	RATIO
44 Methyl Cyclohexane (continued)								
8.313	8.310	(1.067)	55	112867	19.5716	19.6	67.97- 127.97	98.25
8.311	8.310	(1.067)	41	63069			25.40- 85.40	54.90
45 1,2-Dichloropropane						CAS #: 78-87-5		
8.433	8.431	(1.082)	63	78606	20.6843	20.7	70.00- 130.00	100.00
8.434	8.431	(1.082)	62	55928			43.11- 103.11	71.15
8.435	8.432	(1.082)	76	33444			10.96- 70.96	42.55
46 Methyl Methacrylate						CAS #: 80-62-6		
8.516	8.515	(1.093)	69	44933	20.0443	20.0	70.00- 130.00	100.00
8.517	8.515	(1.093)	41	75446			135.62- 195.62	167.91
47 Bromodichloromethane						CAS #: 75-27-4		
8.682	8.681	(1.114)	83	90726	20.0961	20.1	70.00- 130.00	100.00
8.682	8.681	(1.114)	85	57183			34.44- 94.44	63.03
48 1,4 Dioxane						CAS #: 123-91-1		
8.719	8.715	(1.119)	88	12484	448.419	448	70.00- 130.00	100.00
8.717	8.714	(1.119)	58	10851			51.84- 111.84	86.92
8.721	8.717	(1.119)	43	4708			7.34- 67.34	37.71
49 Dibromomethane						CAS #: 74-95-3		
8.733	8.732	(1.121)	93	40288	20.9138	20.9	70.00- 130.00	100.00
8.732	8.731	(1.121)	95	32240			52.28- 112.28	80.02
8.734	8.735	(1.121)	174	35773			59.94- 119.94	88.79
50 4-Methyl-2-Pentanone						CAS #: 108-10-1		
9.064	9.061	(1.163)	43	222021			70.00- 130.00	100.00
9.063	9.061	(1.163)	58	78341	63.2922	63.3	5.16- 65.16	35.29
9.063	9.064	(1.163)	100	24421			0.00- 40.69	11.00
51 2-Hexanone						CAS #: 591-78-6		
9.967	9.965	(0.900)	43	151659	62.2367	62.2	70.00- 130.00	100.00
9.967	9.965	(0.900)	58	73983			18.00- 78.00	48.78
52 cis 1,3-Dichloropropene						CAS #: 10061-01-5		
9.268	9.267	(1.189)	75	107494	20.6427	20.6	70.00- 130.00	100.00
9.269	9.266	(1.189)	77	34843			2.17- 62.17	32.41
9.271	9.267	(1.190)	110	22732			0.00- 50.44	21.15
$ 53 TOLUENE d8 (surr)						CAS #: 2037-26-5		
9.523	9.522	(1.222)	98	587548	49.6662	49.7	70.00- 130.00	100.00
9.522	9.522	(1.222)	70	67256			0.00- 41.87	11.45
9.523	9.522	(1.222)	100	387368			35.37- 95.37	65.93

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RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/l)	FINAL (ug/l)	TARGET RANGE	RATIO
54 Toluene						CAS #: 108-88-3		
9.606	9.604	(1.233)	92	160400	20.6537	20.6	70.00- 130.00	100.00
9.605	9.604	(1.233)	91	275989			140.41- 200.41	172.06
9.604	9.603	(1.232)	65	35272			0.00- 52.96	21.99
55 trans 1,3-Dichloropropene						CAS #: 10061-02-6		
9.790	9.789	(1.256)	75	100028	20.9615	21.0	70.00- 130.00	100.00
9.789	9.789	(1.256)	77	32501			1.62- 61.62	32.49
9.790	9.790	(1.256)	110	21127			0.00- 51.52	21.12
56 Ethyl Methacrylate						CAS #: 97-63-2		
9.789	9.788	(1.256)	69	84804	20.8365	20.8	70.00- 130.00	100.00
9.792	9.788	(1.257)	99	16080			0.00- 48.62	18.96
57 1,1,2-Trichloroethane						CAS #: 79-00-5		
9.950	9.950	(1.277)	97	56366	20.4368	20.4	70.00- 130.00	100.00
9.951	9.949	(1.277)	83	49500			55.39- 115.39	87.82
9.952	9.951	(1.277)	85	41834			37.04- 97.04	74.22
58 1,3-Dichloropropane						CAS #: 142-28-9		
10.210	10.208	(0.922)	76	104680	19.8985	19.9	70.00- 130.00	100.00
10.209	10.209	(0.922)	78	33289			1.97- 61.97	31.80
10.209	10.209	(0.922)	63	12240			0.00- 41.34	11.69
59 Tetrachloroethylene						CAS #: 127-18-4		
10.281	10.279	(0.928)	164	48835	20.6581	20.6	70.00- 130.00	100.00
10.279	10.280	(0.928)	129	47087			69.25- 129.25	96.42
10.281	10.279	(0.928)	166	62137			98.19- 158.19	127.24
60 Dibromochloromethane						CAS #: 124-48-1		
10.477	10.478	(0.946)	129	55721	20.7282	20.7	70.00- 130.00	100.00
10.477	10.478	(0.946)	127	43952			46.39- 106.39	78.88
61 1,2-Dibromoethane						CAS #: 106-93-4		
10.684	10.684	(0.965)	107	55496	20.6403	20.6	70.00- 130.00	100.00
10.684	10.683	(0.965)	109	52074			64.40- 124.40	93.83
62 1-Chlorohexane						CAS #: 544-10-5		
10.855	10.854	(0.980)	91	88396	21.5861	21.6	70.00- 130.00	100.00
10.853	10.853	(0.980)	55	79791			57.74- 117.74	90.27
10.854	10.853	(0.980)	56	48163			23.70- 83.70	54.49
* 63 CHLOROBENZENE d5 (IS)						CAS #: 3114-55-4		
11.074	11.073	(1.000)	117	398972	50.0000		70.00- 130.00	100.00
11.074	11.074	(1.000)	119	127787			1.25- 61.25	32.03
11.073	11.073	(1.000)	82	246066			30.45- 90.45	61.68

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RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/l)	FINAL (ug/l)	TARGET RANGE	RATIO
64 Chlorobenzene						CAS #: 108-90-7		
11.113	11.113	(1.004)	112	169888	20.6696	20.7	70.00- 130.00	100.00
11.112	11.112	(1.003)	114	53558			2.19- 62.19	31.53
11.111	11.112	(1.003)	77	118489			37.84- 97.84	69.75
65 1,1,1,2-Tetrachloroethane						CAS #: 630-20-6		
11.154	11.155	(1.007)	131	53747	20.7875	20.8	70.00- 130.00	100.00
11.155	11.155	(1.007)	117	38195			38.30- 98.30	71.06
11.154	11.154	(1.007)	95	23413			12.98- 72.98	43.56
66 Ethylbenzene						CAS #: 100-41-4		
11.167	11.167	(1.008)	106	90857	20.6580	20.6	70.00- 130.00	100.00
11.167	11.167	(1.008)	91	309673			312.23- 372.23	340.84
11.169	11.165	(1.009)	77	29460			2.29- 62.29	32.42
67 p,m-Xylene						CAS #: 511-39-00		
11.244	11.244	(1.015)	106	227157	41.8994	41.9	70.00- 130.00	100.00
11.244	11.244	(1.015)	91	494180			187.97- 247.97	217.55
11.244	11.244	(1.015)	105	101854			16.30- 76.30	44.84
68 o-Xylene						CAS #: 95-47-6		
11.686	11.686	(1.055)	91	240201	20.3563	20.4	70.00- 130.00	100.00
11.686	11.686	(1.055)	106	107314			13.30- 73.30	44.68
11.687	11.686	(1.055)	77	31601			0.00- 42.08	13.16
69 Styrene						CAS #: 100-42-5		
11.720	11.719	(1.058)	104	188284	20.4535	20.4	70.00- 130.00	100.00
11.719	11.718	(1.058)	103	100430			23.82- 83.82	53.34
11.719	11.718	(1.058)	78	109979			28.80- 88.80	58.41
70 Bromoform						CAS #: 75-25-2		
12.061	12.061	(1.089)	173	32429	19.0779	19.1	70.00- 130.00	100.00
12.061	12.061	(1.089)	175	15948			18.94- 78.94	49.18
71 1-Methylethylbenzene						CAS #: 98-82-8		
12.048	12.048	(0.892)	105	287323	21.3205	21.3	70.00- 130.00	100.00
12.050	12.048	(0.893)	120	73222			0.00- 55.21	25.48
12.049	12.048	(0.892)	77	53522			0.00- 47.14	18.63
72 1,4-Dichloro-2-Butene						CAS #: 110-57-6		
12.086	12.085	(0.895)	53	21578	37.6983	37.7	70.00- 130.00	100.00
12.086	12.086	(0.895)	75	15754			53.97- 113.97	73.01
12.088	12.085	(0.895)	89	8165			8.13- 68.13	37.84
73 1,1,2,2-Tetrachloroethane						CAS #: 79-34-5		
12.212	12.213	(0.905)	83	71792	20.7182	20.7	70.00- 130.00	100.00

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RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/l)	FINAL (ug/l)	TARGET RANGE	RATIO
73 1,1,2,2-Tetrachloroethane (continued)								
12.213	12.213	(0.905)	85	47345			34.75- 94.75	65.95
12.219	12.213	(0.905)	133	6669			0.00- 38.88	9.29
$ 74 4-BROMOFLUOROBENZENE (surr)						CAS #: 460-00-4		
12.300	12.299	(0.911)	95	223198	50.4785	50.5	70.00- 130.00	100.00
12.301	12.301	(0.911)	174	157153			40.89- 100.89	70.41
12.301	12.300	(0.911)	176	152389			37.00- 97.00	68.28
75 1,2,3- trichloropropane						CAS #: 96-18-4		
12.363	12.362	(0.916)	75	64510			70.00- 130.00	100.00
12.363	12.362	(0.916)	77	20398			1.79- 61.79	31.62
12.363	12.363	(0.916)	110	21970	20.8596	20.8	4.39- 64.39	34.06
76 n-Propylbenzene						CAS #: 103-65-1		
12.454	12.454	(0.922)	91	356238	21.2496	21.2	70.00- 130.00	100.00
12.454	12.453	(0.922)	92	38811			0.00- 40.57	10.89
12.454	12.455	(0.922)	120	76783			0.00- 51.30	21.55
77 Bromobenzene						CAS #: 108-86-1		
12.499	12.498	(0.926)	77	135464	20.7903	20.8	70.00- 130.00	100.00
12.501	12.501	(0.926)	156	70825			22.90- 82.90	52.28
12.501	12.500	(0.926)	158	68000			21.34- 81.34	50.20
78 1,3,5-Trimethylbenzene						CAS #: 108-67-8		
12.612	12.612	(0.934)	105	241932	20.6621	20.7	70.00- 130.00	100.00
12.612	12.612	(0.934)	120	114780			16.83- 76.83	47.44
12.611	12.611	(0.934)	77	33963			0.00- 44.20	14.04
79 2-Chlorotoluene						CAS #: 95-49-8		
12.635	12.634	(0.936)	91	237391	20.0645	20.1	70.00- 130.00	100.00
12.636	12.636	(0.936)	126	66652			0.00- 55.26	28.08
12.631	12.633	(0.936)	63	47239			0.00- 48.68	19.90
80 4-Chlorotoluene						CAS #: 106-43-4		
12.681	12.681	(0.939)	91	239748	21.4502	21.4	70.00- 130.00	100.00
12.682	12.681	(0.939)	126	66890			0.10- 60.10	27.90
12.681	12.680	(0.939)	63	31390			0.00- 43.98	13.09
81 tert-Butylbenzene						CAS #: 98-06-6		
12.975	12.974	(0.961)	119	231374	21.1898	21.2	70.00- 130.00	100.00
12.974	12.973	(0.961)	91	178683			45.45- 105.45	77.23
12.974	12.974	(0.961)	134	48477			0.00- 50.34	20.95
82 1,2,4-trimethylbenzene						CAS #: 95-63-6		
13.012	13.012	(0.964)	105	250029	21.7481	21.7	70.00- 130.00	100.00

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82 1,2,4-trimethylbenzene (continued)								
13.012	13.011	(0.964)	120	127491			14.42- 74.42	50.99
13.012	13.009	(0.964)	77	34773			0.00- 43.58	13.91
83 sec-Butylbenzene						CAS #: 135-98-8		
13.190	13.190	(0.977)	105	291854	20.6441	20.6	70.00- 130.00	100.00
13.190	13.191	(0.977)	134	52862			0.00- 48.42	18.11
13.190	13.189	(0.977)	91	47839			0.00- 46.62	16.39
84 p-Isopropyltoluene						CAS #: 99-87-6		
13.327	13.326	(0.987)	119	249843	20.8719	20.9	70.00- 130.00	100.00
13.327	13.327	(0.987)	134	61611			0.00- 55.02	24.66
13.326	13.326	(0.987)	91	62447			0.00- 55.58	24.99
85 1,3-Dichlorobenzene						CAS #: 541-73-1		
13.426	13.426	(0.995)	146	135256	21.0792	21.1	70.00- 130.00	100.00
13.426	13.426	(0.995)	148	83974			34.79- 94.79	62.09
13.426	13.425	(0.995)	111	58794			13.11- 73.11	43.47
* 86 1,4-DICHLOROBENZENE-d4 (IS)						CAS #: 3855-82-1		
13.500	13.500	(1.000)	152	207626	50.0000		70.00- 130.00	100.00
13.500	13.500	(1.000)	150	341565			147.70- 207.70	164.51
13.500	13.499	(1.000)	115	133146			34.24- 94.24	64.13
87 1,4-Dichlorobenzene						CAS #: 106-46-7		
13.533	13.532	(1.002)	146	136356	20.8598	20.8	70.00- 130.00	100.00
13.532	13.532	(1.002)	148	88052			34.35- 94.35	64.58
13.532	13.532	(1.002)	111	59355			12.68- 72.68	43.53
88 Benzyl Chloride						CAS #: 100-44-7		
13.645	13.646	(1.011)	91	102698	18.8470	18.8	70.00- 130.00	100.00
13.646	13.644	(1.011)	65	14679			0.00- 43.51	14.29
89 n-Butylbenzene						CAS #: 104-51-8		
13.741	13.740	(1.018)	91	220063	20.3161	20.3	70.00- 130.00	100.00
13.741	13.740	(1.018)	92	122537			24.40- 84.40	55.68
13.742	13.741	(1.018)	134	53716			0.00- 54.24	24.41
90 1,2-Dichlorobenzene						CAS #: 95-50-1		
13.910	13.909	(1.030)	146	125147	20.6937	20.7	70.00- 130.00	100.00
13.909	13.909	(1.030)	148	79464			33.76- 93.76	63.50
13.908	13.908	(1.030)	111	55055			15.28- 75.28	43.99
91 1,2-dibromo-3-chloropropane						CAS #: 96-12-8		
14.596	14.592	(1.081)	75	13473	18.6087	18.6	70.00- 130.00	100.00
14.598	14.594	(1.081)	155	10353			41.95- 101.95	76.84

Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\LCS31.D
Report Date: 26-Sep-2002 08:45

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/l)	FINAL (ug/l)	TARGET RANGE	RATIO
91 1,2-dibromo-3-chloropropane (continued)								
14.597	14.594	(1.081)	157	14232			61.28- 121.28	105.63
92 1,2,4-Trichlorobenzene						CAS #: 120-82-1		
15.256	15.246	(1.130)	180	90552	21.4375	21.4	70.00- 130.00	100.00
15.256	15.246	(1.130)	182	84817			65.73- 125.73	93.67
15.255	15.245	(1.130)	145	28651			2.14- 62.14	31.64
93 Hexachlorobutadiene						CAS #: 87-68-3		
15.354	15.343	(1.137)	225	30890			70.00- 130.00	100.00
15.354	15.342	(1.137)	223	19328	20.5099	20.5	33.12- 93.12	62.57
15.354	15.343	(1.137)	227	18481			35.04- 95.04	59.83
94 Naphthalene						CAS #: 91-20-3		
15.439	15.427	(1.144)	128	226381	23.5251	23.5	70.00- 130.00	100.00
15.439	15.427	(1.144)	127	28778			0.00- 42.70	12.71
15.439	15.427	(1.144)	129	24554			0.00- 40.83	10.85
95 1,2,3-trichlorobenzene						CAS #: 87-61-6		
15.607	15.595	(1.156)	180	82399	21.7926	21.8	70.00- 130.00	100.00
15.607	15.595	(1.156)	182	77794			66.42- 126.42	94.41
15.607	15.594	(1.156)	145	28608			3.71- 63.71	34.72

Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\LCS31.D
Report Date: 26-Sep-2002 08:45

PEL Laboratories, Inc.

Data file : \\Vms03\dd\chem\vms03.i\M3092502.b\LCS31.D
Lab Smp Id: 092502LCSA31 Client Smp ID: 092502LCSA31
Inj Date : 25-SEP-2002 06:26 MS Autotune Date: 29-OCT-2001 10:36
Operator : Inst ID: vms03.i
Smp Info : 092502LCSA31
Misc Info :
Comment :
Method : \\VMS03\dd\chem\vms03.i\M3092502.b\8260A.m
Meth Date : 26-Sep-2002 08:44 lpelo Quant Type: ISTD
Cal Date : 27-AUG-2002 09:41 Cal File: 80PPB.D
Als bottle: 3 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.04 Sample Matrix: WATER
Processing Host: PELCOMP01

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\LCS31.D
Report Date: 26-Sep-2002 08:45

PEL Laboratories, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vms03.i
Lab File ID: LCS31.D
Lab Smp Id: 092502LCSA31
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\VMS03\dd\chem\vms03.i\M3092502.b\8260A.m
Misc Info:

Calibration Date: 25-SEP-2002
Calibration Time: 06:02
Client Smp ID: 092502LCSA31
Level: LOW
Sample Type: WATER

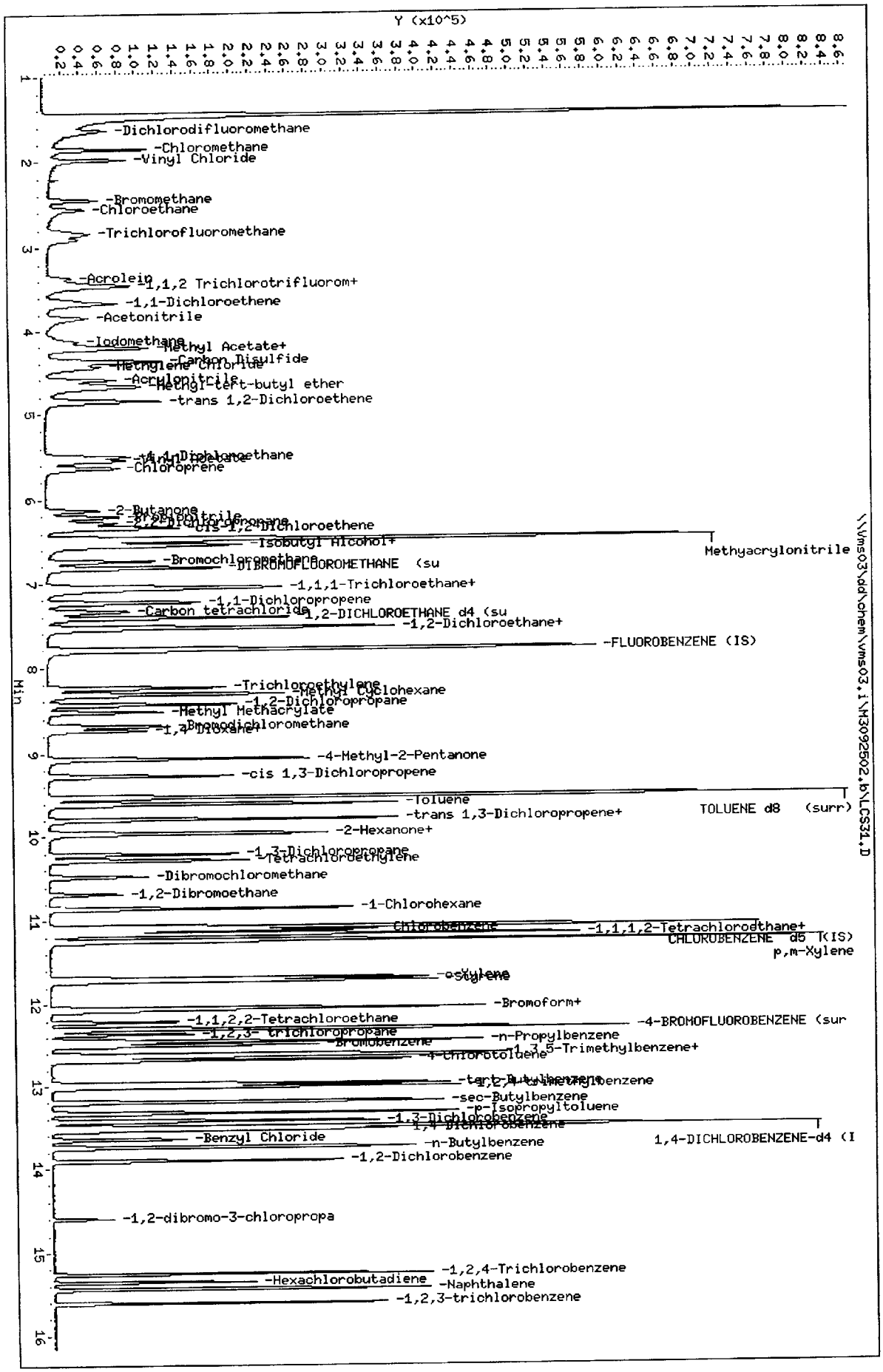
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
42 FLUOROBENZENE (IS	556115	278058	1112230	556405	0.05
63 CHLOROBENZENE d5	400449	200225	800898	398972	-0.37
86 1,4-DICHLOROBENZE	210064	105032	420128	207626	-1.16

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
42 FLUOROBENZENE (IS	7.79	7.29	8.29	7.79	0.02
63 CHLOROBENZENE d5	11.07	10.57	11.57	11.07	0.01
86 1,4-DICHLOROBENZE	13.50	13.00	14.00	13.50	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\LCS31.D
Date : 25-SEP-2002 06:26
Client ID: 092502LCSA31
Sample Info: 092502LCSA31
Purge Volume: 5.0
Column Phase: DB-624

Instrument: vms03.i
Operator:
Column diameter: 0.18



Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10210.D
Report Date: 26-Sep-2002 08:46

PEL Laboratories, Inc.

Data file : \\Vms03\dd\chem\vms03.i\M3092502.b\10210.D
Lab Smp Id: 220910210
Inj Date : 25-SEP-2002 07:37
Operator :
Smp Info : 220910210;2209102;1;
Misc Info :
Comment :
Method : \\Vms03\dd\chem\vms03.i\M3092502.b\8260A.m
Meth Date : 26-Sep-2002 08:44 lpelo
Cal Date : 27-AUG-2002 09:41
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP Genie
Target Version: 4.04
Processing Host: PELCOMP01

Client Smp ID: 11Q30228MS
MS Autotune Date: 29-OCT-2001 10:36
Inst ID: vms03.i

Quant Type: ISTD
Cal File: 80PPB.D
QC Sample: MS

Compound Sublist: all.sub
Sample Matrix: WATER

Concentration Formula: Amt * DF * Vf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	Final Volume
Vo	5.000	Sample Volume

	RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/l)	FINAL (ug/l)	TARGET RANGE	RATIO
M	1 1,2-Dichloroethene (Total)						CAS #: 540-59-0		
					186557	43.2724	43.3		
M	2 Xylenes (Total)						CAS #: 1330-20-7		
					507388	68.3346	68.3		
M	3 Trihalomethanes (Total)						CAS #: THM		
					314573	83.7139	83.7		
	4 Dichlorodifluoromethane						CAS #: 75-71-8		
	1.640	1.637	(0.210)	85	99611	19.1322	19.1	70.00- 130.00	100.00
	1.641	1.636	(0.211)	87	31424			0.55- 60.55	31.55
	5 Chloromethane						CAS #: 74-87-3		
	1.856	1.855	(0.238)	50	124068	19.4444	19.4	70.00- 130.00	100.00

Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10210.D
Report Date: 26-Sep-2002 08:46

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/l)	FINAL (ug/l)	TARGET RANGE	RATIO
5 Chloromethane (continued)								
1.857	1.855	(0.238)	52	37208			1.93- 61.93	29.99
6 Vinyl Chloride						CAS #: 75-01-4		
1.979	1.977	(0.254)	62	84397	18.5030	18.5	70.00- 130.00	100.00
1.978	1.976	(0.254)	64	27099			0.00- 59.68	32.11
7 Bromomethane						CAS #: 74-83-9		
2.451	2.447	(0.314)	94	52738			70.00- 130.00	100.00
2.451	2.446	(0.315)	96	48517	20.6840	20.7	61.69- 121.69	92.00
8 Chloroethane						CAS #: 75-00-3		
2.560	2.556	(0.328)	64	59791	20.9404	20.9	70.00- 130.00	100.00
2.564	2.556	(0.329)	66	18893			0.84- 60.84	31.60
9 Trichlorofluoromethane						CAS #: 75-69-4		
2.843	2.839	(0.365)	101	86046	21.7873	21.8	70.00- 130.00	100.00
2.846	2.841	(0.365)	103	53807			34.18- 94.18	62.53
2.849	2.836	(0.365)	66	11689			0.00- 43.49	13.58
10 Acrolein						CAS #: 107-02-8		
3.366	3.359	(0.432)	56	33587	60.7580	60.8	70.00- 130.00	100.00
3.364	3.355	(0.432)	55	23578			36.36- 96.36	70.20
11 1,1,2 Trichlorotrifluoromethane						CAS #: 76-13-1		
3.448	3.444	(0.442)	101	67784	22.4691	22.5	70.00- 130.00	100.00
3.446	3.452	(0.442)	151	50221			43.92- 103.92	74.09
3.450	3.452	(0.443)	103	44662			34.95- 94.95	65.89
12 Acetone						CAS #: 67-64-1		
3.463	3.458	(0.444)	43	75062	60.9031	60.9	70.00- 130.00	100.00
3.463	3.461	(0.444)	58	20533			0.00- 57.34	27.35
13 1,1-Dichloroethene						CAS #: 75-35-4		
3.662	3.663	(0.470)	61	120721	20.5848	20.6	70.00- 130.00	100.00
3.668	3.662	(0.471)	96	59391			17.54- 77.54	49.20
3.670	3.661	(0.471)	98	38222			0.72- 60.72	31.66
14 Acetonitrile						CAS #: 75-05-8		
3.849	3.838	(0.494)	41	93965	186.830	187	70.00- 130.00	100.00
3.844	3.836	(0.493)	40	51335			23.14- 83.14	54.63
3.852	3.839	(0.494)	39	19787			0.00- 49.01	21.06
15 Iodomethane						CAS #: 74-88-4		
4.135	4.131	(0.530)	142	107284	20.2801	20.3	70.00- 130.00	100.00
4.135	4.131	(0.530)	127	36280			9.89- 69.89	33.82

Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10210.D
Report Date: 26-Sep-2002 08:46

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/l)	FINAL (ug/l)	TARGET RANGE	RATIO
15 Iodomethane (continued)								
4.124	4.137	(0.529)	141	13108			0.00- 43.90	12.22
16 Methyl Acetate						CAS #: 79-20-9		
4.190	4.179	(0.538)	43	65366	20.9955	21.0		
17 Allyl Chloride						CAS #: 107-05-1		
4.213	4.206	(0.540)	41	124442	21.4249	21.4	70.00- 130.00	100.00
4.212	4.208	(0.540)	39	79929			35.11- 95.11	64.23
4.218	4.208	(0.541)	78	10443			0.00- 38.30	8.39
18 Carbon Disulfide						CAS #: 75-15-0		
4.380	4.372	(0.562)	76	229195	19.5568	19.6	70.00- 130.00	100.00
4.383	4.375	(0.562)	78	20812			0.00- 39.05	9.08
19 Methylene Chloride						CAS #: 75-09-2		
4.389	4.444	(0.563)	84	72484			70.00- 130.00	100.00(M)
4.383	4.444	(0.562)	49	126694	19.8916	19.9	144.57- 204.57	174.79
4.389	4.444	(0.563)	51	37556			18.00- 78.00	51.81
20 Acrylonitrile						CAS #: 107-13-1		
4.601	4.593	(0.590)	53	90013	64.8680	64.9	70.00- 130.00	100.00
4.601	4.594	(0.590)	52	73791			52.89- 112.89	81.98
4.600	4.595	(0.590)	51	32227			9.94- 69.94	35.80
21 Methyl-tert-butyl ether						CAS #: 1634-04-4		
4.678	4.667	(0.600)	73	215572	20.2709	20.3	70.00- 130.00	100.00
4.678	4.665	(0.600)	57	57532			0.00- 55.32	26.69
22 trans 1,2-Dichloroethene						CAS #: 156-60-5		
4.853	4.847	(0.623)	96	64630			70.00- 130.00	100.00
4.853	4.846	(0.623)	61	115022	21.8111	21.8	147.92- 207.92	177.97
4.854	4.847	(0.623)	98	42099			34.16- 94.16	65.14
23 1,1-Dichloroethane						CAS #: 75-34-3		
5.500	5.495	(0.706)	63	142467	21.5721	21.6	70.00- 130.00	100.00
5.499	5.494	(0.705)	65	45059			0.48- 60.48	31.63
5.498	5.495	(0.705)	83	15964			0.00- 41.53	11.21
24 Vinyl Acetate						CAS #: 108-05-4		
5.549	5.542	(0.712)	43	187816	19.5799	19.6	70.00- 130.00	100.00
5.551	5.543	(0.712)	86	13452			0.00- 36.86	7.16
25 Chloroprene						CAS #: 126-99-8		
5.636	5.631	(0.723)	53	81916	22.2372	22.2	70.00- 130.00	100.00
5.635	5.631	(0.723)	88	35814			12.64- 72.64	43.72

Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10210.D
Report Date: 26-Sep-2002 08:46

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/l)	FINAL (ug/l)	TARGET RANGE	RATIO
25 Chloroprene (continued)								
5.637	5.631	(0.723)	90	10323			0.00- 42.85	12.60
26 2-Butanone						CAS #: 78-93-3		
6.127	6.121	(0.786)	43	108081	60.6106	60.6	70.00- 130.00	100.00
6.127	6.121	(0.786)	72	20081			0.00- 48.66	18.58
27 Propionitrile						CAS #: 107-12-0		
6.208	6.202	(0.796)	54	110745	209.848	210	70.00- 130.00	100.00
6.211	6.203	(0.797)	52	23250			0.00- 50.80	20.99
6.208	6.202	(0.796)	55	17728			0.00- 46.22	16.01
28 2,2-Dichloropropane						CAS #: 594-20-7		
6.286	6.279	(0.806)	77	74359	22.1946	22.2	70.00- 130.00	100.00
6.282	6.278	(0.806)	79	23693			1.13- 61.13	31.86
6.281	6.282	(0.806)	97	15917			0.00- 46.48	21.41
29 cis-1,2-Dichloroethene						CAS #: 156-59-2		
6.338	6.333	(0.813)	96	71535	21.4613	21.5	70.00- 130.00	100.00
6.337	6.333	(0.813)	61	122193			138.35- 198.35	170.82
6.337	6.332	(0.813)	98	47174			33.14- 93.14	65.95
30 Methyacrylonitrile						CAS #: 126-98-7		
6.468	6.463	(0.830)	67	275097	212.892	213	70.00- 130.00	100.00
6.467	6.464	(0.830)	66	97839			5.60- 65.60	35.57
6.466	6.463	(0.830)	52	136917			19.69- 79.69	49.77
31 Isobutyl Alcohol						CAS #: 78-83-1		
6.541	6.530	(0.839)	43	65926	404.408	404	70.00- 130.00	100.00
6.539	6.530	(0.839)	42	41477			32.37- 92.37	62.91
6.539	6.524	(0.839)	41	70956			82.09- 142.09	107.63
32 Chloroform						CAS #: 67-66-3		
6.543	6.540	(0.839)	83	128441	21.3121	21.3	70.00- 130.00	100.00
6.543	6.541	(0.839)	85	84273			35.25- 95.25	65.61
6.540	6.539	(0.839)	47	38815			0.00- 59.31	30.22
33 Bromochloromethane						CAS #: 74-97-5		
6.741	6.736	(0.865)	128	31736	21.8764	21.9	70.00- 130.00	100.00
6.738	6.735	(0.864)	49	83815			225.60- 285.60	264.10
6.740	6.738	(0.865)	130	42062			97.87- 157.87	132.54
$ 34 DIBROMOFLUOROMETHANE (surr)						CAS #: 1868-53-7		
6.814	6.810	(0.874)	113	138543	49.3627	49.4	70.00- 130.00	100.00
6.815	6.811	(0.874)	111	141958			71.10- 131.10	102.46
6.819	6.812	(0.875)	192	25067			0.00- 48.24	18.09

Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10210.D
Report Date: 26-Sep-2002 08:46

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/l)	FINAL (ug/l)	TARGET RANGE	RATIO
35 1,1,1-Trichloroethane						CAS #: 71-55-6		
7.042	7.038	(0.903)	97	106847	21.9551	22.0	70.00- 130.00	100.00
7.042	7.036	(0.903)	99	67247			34.68- 94.68	62.94
7.044	7.039	(0.904)	117	11656			0.00- 41.74	10.91
36 Cyclohexane						CAS #: 110-82-7		
7.059	7.054	(0.906)	56	161439	21.5898	21.6	70.00- 130.00	100.00
7.063	7.057	(0.906)	84	110862			39.74- 99.74	68.67
7.058	7.056	(0.905)	41	97178			30.71- 90.71	60.19
37 1,1-Dichloropropene						CAS #: 563-58-6		
7.234	7.229	(0.928)	75	101306	22.1705	22.2	70.00- 130.00	100.00
7.234	7.231	(0.928)	77	31706			0.90- 60.90	31.30
7.235	7.230	(0.928)	110	31463			1.48- 61.48	31.06
38 Carbon tetrachloride						CAS #: 56-23-5		
7.344	7.339	(0.942)	117	83880	21.4211	21.4	70.00- 130.00	100.00
7.343	7.341	(0.942)	119	79372			67.59- 127.59	94.63
7.345	7.340	(0.942)	121	23779			0.64- 60.64	28.35
$ 39 1,2-DICHLOROETHANE d4 (surr)						CAS #: 17060-07-0		
7.418	7.416	(0.952)	102	35401	52.2370	52.2	70.00- 130.00	100.00
7.417	7.414	(0.951)	65	209287			587.58- 647.58	591.19
7.418	7.414	(0.952)	67	106120			285.16- 345.16	299.77
40 1,2-Dichloroethane						CAS #: 107-06-2		
7.527	7.524	(0.966)	62	123078	22.1335	22.1	70.00- 130.00	100.00
7.528	7.524	(0.966)	64	38221			1.49- 61.49	31.05
7.527	7.526	(0.966)	98	8404			0.00- 36.96	6.83
41 Benzene						CAS #: 71-43-2		
7.540	7.536	(0.967)	78	289533	21.6169	21.6	70.00- 130.00	100.00
7.537	7.536	(0.967)	52	59669			0.00- 50.97	20.61
7.542	7.536	(0.967)	77	69346			0.00- 53.15	23.95
* 42 FLUOROBENZENE (IS)						CAS #: 462-06-6		
7.795	7.791	(1.000)	96	559459	50.0000		70.00- 130.00	100.00
7.794	7.792	(1.000)	70	118389			0.00- 51.39	21.16
7.795	7.792	(1.000)	50	81394			0.00- 44.57	14.55
43 Trichloroethylene						CAS #: 79-01-6		
8.239	8.237	(1.057)	130	66907	22.1239	22.1	70.00- 130.00	100.00
8.240	8.236	(1.057)	95	74989			79.37- 139.37	112.08
8.240	8.235	(1.057)	97	49985			40.66- 100.66	74.71
44 Methyl Cyclohexane						CAS #: 108-87-2		
8.315	8.312	(1.067)	83	123903			70.00- 130.00	100.00

Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10210.D
Report Date: 26-Sep-2002 08:46

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/l)	FINAL (ug/l)	TARGET RANGE	RATIO
44 Methyl Cyclohexane (continued)								
8.312	8.310	(1.066)	55	120435	20.7699	20.8	67.97- 127.97	97.20
8.314	8.310	(1.067)	41	68688			25.40- 85.40	55.44
45 1,2-Dichloropropane						CAS #: 78-87-5		
8.434	8.431	(1.082)	63	84330	22.0694	22.1	70.00- 130.00	100.00
8.434	8.431	(1.082)	62	61182			43.11- 103.11	72.55
8.435	8.432	(1.082)	76	35782			10.96- 70.96	42.43
46 Methyl Methacrylate						CAS #: 80-62-6		
8.520	8.515	(1.093)	69	48729	21.6190	21.6	70.00- 130.00	100.00
8.519	8.515	(1.093)	41	80692			135.62- 195.62	165.59
47 Bromodichloromethane						CAS #: 75-27-4		
8.684	8.681	(1.114)	83	94592	20.8381	20.8	70.00- 130.00	100.00
8.684	8.681	(1.114)	85	62769			34.44- 94.44	66.36
48 1,4 Dioxane						CAS #: 123-91-1		
8.726	8.715	(1.119)	88	10343	369.487	369	70.00- 130.00	100.00
8.718	8.714	(1.118)	58	8086			51.84- 111.84	78.18
8.721	8.717	(1.119)	43	3653			7.34- 67.34	35.32
49 Dibromomethane						CAS #: 74-95-3		
8.734	8.732	(1.120)	93	41554	21.4533	21.4	70.00- 130.00	100.00
8.736	8.731	(1.121)	95	34355			52.28- 112.28	82.68
8.737	8.735	(1.121)	174	38337			59.94- 119.94	92.26
50 4-Methyl-2-Pentanone						CAS #: 108-10-1		
9.064	9.061	(1.163)	43	234510			70.00- 130.00	100.00
9.065	9.061	(1.163)	58	83378	66.9939	67.0	5.16- 65.16	35.55
9.066	9.064	(1.163)	100	25621			0.00- 40.69	10.93
51 2-Hexanone						CAS #: 591-78-6		
9.968	9.965	(0.900)	43	156464	64.8785	64.9	70.00- 130.00	100.00
9.968	9.965	(0.900)	58	77292			18.00- 78.00	49.40
52 cis 1,3-Dichloropropene						CAS #: 10061-01-5		
9.271	9.267	(1.189)	75	115512	22.0613	22.1	70.00- 130.00	100.00
9.270	9.266	(1.189)	77	36333			2.17- 62.17	31.45
9.270	9.267	(1.189)	110	23701			0.00- 50.44	20.52
$ 53 TOLUENE d8 (surr)						CAS #: 2037-26-5		
9.525	9.522	(1.222)	98	582989	49.0118	49.0	70.00- 130.00	100.00
9.523	9.522	(1.222)	70	69082			0.00- 41.87	11.85
9.524	9.522	(1.222)	100	386326			35.37- 95.37	66.27

Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10210.D
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RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/l)	FINAL (ug/l)	TARGET RANGE	RATIO
54 Toluene						CAS #: 108-88-3		
9.607	9.604	(1.232)	92	173898	22.2695	22.3	70.00- 130.00	100.00
9.607	9.604	(1.232)	91	289463			140.41- 200.41	166.46
9.606	9.603	(1.232)	65	39084			0.00- 52.96	22.48
55 trans 1,3-Dichloropropene						CAS #: 10061-02-6		
9.792	9.789	(1.256)	75	107510	22.4064	22.4	70.00- 130.00	100.00
9.792	9.789	(1.256)	77	33824			1.62- 61.62	31.46
9.795	9.790	(1.256)	110	23328			0.00- 51.52	21.70
56 Ethyl Methacrylate						CAS #: 97-63-2		
9.791	9.788	(1.256)	69	94596	23.1156	23.1	70.00- 130.00	100.00
9.792	9.788	(1.256)	99	16581			0.00- 48.62	17.53
57 1,1,2-Trichloroethane						CAS #: 79-00-5		
9.953	9.950	(1.277)	97	60102	21.6725	21.7	70.00- 130.00	100.00
9.952	9.949	(1.277)	83	52236			55.39- 115.39	86.91
9.954	9.951	(1.277)	85	42929			37.04- 97.04	71.43
58 1,3-Dichloropropane						CAS #: 142-28-9		
10.211	10.208	(0.922)	76	115135	22.1143	22.1	70.00- 130.00	100.00
10.211	10.209	(0.922)	78	37093			1.97- 61.97	32.22
10.211	10.209	(0.922)	63	13483			0.00- 41.34	11.71
59 Tetrachloroethylene						CAS #: 127-18-4		
10.283	10.279	(0.928)	164	53609	22.9142	22.9	70.00- 130.00	100.00
10.282	10.280	(0.928)	129	51642			69.25- 129.25	96.33
10.282	10.279	(0.928)	166	67254			98.19- 158.19	125.45
60 Dibromochloromethane						CAS #: 124-48-1		
10.480	10.478	(0.946)	129	58621	22.0345	22.0	70.00- 130.00	100.00
10.478	10.478	(0.946)	127	47039			46.39- 106.39	80.24
61 1,2-Dibromoethane						CAS #: 106-93-4		
10.686	10.684	(0.965)	107	58212	21.8764	21.9	70.00- 130.00	100.00
10.687	10.683	(0.965)	109	56026			64.40- 124.40	96.24
62 1-Chlorohexane						CAS #: 544-10-5		
10.856	10.854	(0.980)	91	95973	23.6810	23.7	70.00- 130.00	100.00
10.856	10.853	(0.980)	55	86135			57.74- 117.74	89.75
10.855	10.853	(0.980)	56	51768			23.70- 83.70	53.94
* 63 CHLOROBENZENE d5 (IS)						CAS #: 3114-55-4		
11.076	11.073	(1.000)	117	394852	50.0000		70.00- 130.00	100.00
11.076	11.074	(1.000)	119	128476			1.25- 61.25	32.54
11.075	11.073	(1.000)	82	245872			30.45- 90.45	62.27

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RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/l)	FINAL (ug/l)	TARGET RANGE	RATIO
64 Chlorobenzene						CAS #: 108-90-7		
11.115	11.113	(1.003)	112	181375	22.2975	22.3	70.00- 130.00	100.00
11.115	11.112	(1.004)	114	57400			2.19- 62.19	31.65
11.114	11.112	(1.003)	77	124530			37.84- 97.84	68.66
65 1,1,1,2-Tetrachloroethane						CAS #: 630-20-6		
11.159	11.155	(1.007)	131	57268	22.3804	22.4	70.00- 130.00	100.00
11.156	11.155	(1.007)	117	40126			38.30- 98.30	70.07
11.157	11.154	(1.007)	95	24256			12.98- 72.98	42.36
66 Ethylbenzene						CAS #: 100-41-4		
11.169	11.167	(1.008)	106	97797	22.4679	22.5	70.00- 130.00	100.00
11.169	11.167	(1.008)	91	331057			312.23- 372.23	338.51
11.170	11.165	(1.008)	77	30983			2.29- 62.29	31.68
67 p,m-Xylene						CAS #: 511-39-00		
11.246	11.244	(1.015)	106	247024	46.0393	46.0	70.00- 130.00	100.00
11.247	11.244	(1.015)	91	532446			187.97- 247.97	215.54
11.247	11.244	(1.015)	105	113451			16.30- 76.30	45.93
68 o-Xylene						CAS #: 95-47-6		
11.688	11.686	(1.055)	91	260364	22.2952	22.3	70.00- 130.00	100.00
11.688	11.686	(1.055)	106	113843			13.30- 73.30	43.72
11.689	11.686	(1.055)	77	30746			0.00- 42.08	11.81
69 Styrene						CAS #: 100-42-5		
11.721	11.719	(1.058)	104	204027	22.3950	22.4	70.00- 130.00	100.00
11.721	11.718	(1.058)	103	110650			23.82- 83.82	54.23
11.720	11.718	(1.058)	78	121244			28.80- 88.80	59.43
70 Bromoform						CAS #: 75-25-2		
12.063	12.061	(1.089)	173	32919	19.5293	19.5	70.00- 130.00	100.00
12.063	12.061	(1.089)	175	16568			18.94- 78.94	50.33
71 1-Methylethylbenzene						CAS #: 98-82-8		
12.050	12.048	(0.892)	105	308099	22.8716	22.9	70.00- 130.00	100.00
12.050	12.048	(0.892)	120	79822			0.00- 55.21	25.91
12.049	12.048	(0.892)	77	59240			0.00- 47.14	19.23
72 1,4-Dichloro-2-Butene						CAS #: 110-57-6		
12.088	12.085	(0.895)	53	24222	41.9235	41.9	70.00- 130.00	100.00
12.087	12.086	(0.895)	75	21909			53.97- 113.97	90.45
12.087	12.085	(0.895)	89	8431			8.13- 68.13	34.81
73 1,1,2,2-Tetrachloroethane						CAS #: 79-34-5		
12.215	12.213	(0.905)	83	78595	22.6909	22.7	70.00- 130.00	100.00

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RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/l)	CONCENTRATIONS FINAL (ug/l)	TARGET RANGE	RATIO
73 1,1,2,2-Tetrachloroethane (continued)								
12.215	12.213	(0.905)	85	50274			34.75- 94.75	63.97
12.217	12.213	(0.905)	133	6693			0.00- 38.88	8.52
$ 74 4-BROMOFLUOROBENZENE (surr)						CAS #: 460-00-4		
12.301	12.299	(0.911)	95	223697	50.6123	50.6	70.00- 130.00	100.00
12.303	12.301	(0.911)	174	154987			40.89- 100.89	69.28
12.302	12.300	(0.911)	176	151181			37.00- 97.00	67.58
75 1,2,3- trichloropropane						CAS #: 96-18-4		
12.364	12.362	(0.916)	75	67570			70.00- 130.00	100.00
12.365	12.362	(0.916)	77	21450			1.79- 61.79	31.74
12.364	12.363	(0.916)	110	23872	22.6749	22.7	4.39- 64.39	35.33
76 n-Propylbenzene						CAS #: 103-65-1		
12.455	12.454	(0.922)	91	384047	22.9179	22.9	70.00- 130.00	100.00
12.455	12.453	(0.922)	92	41602			0.00- 40.57	10.83
12.456	12.455	(0.923)	120	82890			0.00- 51.30	21.58
77 Bromobenzene						CAS #: 108-86-1		
12.501	12.498	(0.926)	77	147735	22.6830	22.7	70.00- 130.00	100.00
12.502	12.501	(0.926)	156	77600			22.90- 82.90	52.53
12.502	12.500	(0.926)	158	74297			21.34- 81.34	50.29
78 1,3,5-Trimethylbenzene						CAS #: 108-67-8		
12.613	12.612	(0.934)	105	270316	23.0958	23.1	70.00- 130.00	100.00(R)
12.614	12.612	(0.934)	120	124676			16.83- 76.83	46.12
12.614	12.611	(0.934)	77	38370			0.00- 44.20	14.19
79 2-Chlorotoluene						CAS #: 95-49-8		
12.637	12.634	(0.936)	91	263636	22.2920	22.3	70.00- 130.00	100.00
12.638	12.636	(0.936)	126	69669			0.00- 55.26	26.43
12.634	12.633	(0.936)	63	48570			0.00- 48.68	18.42
80 4-Chlorotoluene						CAS #: 106-43-4		
12.683	12.681	(0.939)	91	254934	22.8183	22.8	70.00- 130.00	100.00
12.683	12.681	(0.939)	126	73959			0.10- 60.10	29.01
12.682	12.680	(0.939)	63	33799			0.00- 43.98	13.26
81 tert-Butylbenzene						CAS #: 98-06-6		
12.976	12.974	(0.961)	119	251149	23.0103	23.0	70.00- 130.00	100.00
12.976	12.973	(0.961)	91	190561			45.45- 105.45	75.88
12.976	12.974	(0.961)	134	49201			0.00- 50.34	19.59
82 1,2,4-trimethylbenzene						CAS #: 95-63-6		
13.013	13.012	(0.964)	105	263811	22.9564	23.0	70.00- 130.00	100.00

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RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/l)	FINAL (ug/l)	TARGET RANGE	RATIO
82 1,2,4-trimethylbenzene (continued)								
13.013	13.011	(0.964)	120	116688			14.42- 74.42	44.23
13.013	13.009	(0.964)	77	36645			0.00- 43.58	13.89
83 sec-Butylbenzene						CAS #: 135-98-8		
13.192	13.190	(0.977)	105	317394	22.4600	22.4	70.00- 130.00	100.00
13.194	13.191	(0.977)	134	58323			0.00- 48.42	18.38
13.192	13.189	(0.977)	91	50361			0.00- 46.62	15.87
84 p-Isopropyltoluene						CAS #: 99-87-6		
13.328	13.326	(0.987)	119	271935	22.7269	22.7	70.00- 130.00	100.00
13.328	13.327	(0.987)	134	67827			0.00- 55.02	24.94
13.328	13.326	(0.987)	91	69540			0.00- 55.58	25.57
85 1,3-Dichlorobenzene						CAS #: 541-73-1		
13.428	13.426	(0.995)	146	144442	22.5201	22.5	70.00- 130.00	100.00
13.428	13.426	(0.995)	148	88998			34.79- 94.79	61.62
13.427	13.425	(0.994)	111	61710			13.11- 73.11	42.72
* 86 1,4-DICHLOROBENZENE-d4 (IS)						CAS #: 3855-82-1		
13.502	13.500	(1.000)	152	207540	50.0000		70.00- 130.00	100.00
13.502	13.500	(1.000)	150	344022			147.70- 207.70	165.76
13.501	13.499	(1.000)	115	134615			34.24- 94.24	64.86
87 1,4-Dichlorobenzene						CAS #: 106-46-7		
13.535	13.532	(1.002)	146	144243	22.0755	22.1	70.00- 130.00	100.00
13.534	13.532	(1.002)	148	93399			34.35- 94.35	64.75
13.534	13.532	(1.002)	111	62808			12.68- 72.68	43.54
88 Benzyl Chloride						CAS #: 100-44-7		
13.648	13.646	(1.011)	91	114134	20.7361	20.7	70.00- 130.00	100.00
13.647	13.644	(1.011)	65	15225			0.00- 43.51	13.34
89 n-Butylbenzene						CAS #: 104-51-8		
13.742	13.740	(1.018)	91	241653	22.3185	22.3	70.00- 130.00	100.00
13.742	13.740	(1.018)	92	131483			24.40- 84.40	54.41
13.743	13.741	(1.018)	134	57304			0.00- 54.24	23.71
90 1,2-Dichlorobenzene						CAS #: 95-50-1		
13.911	13.909	(1.030)	146	131675	21.7821	21.8	70.00- 130.00	100.00
13.912	13.909	(1.030)	148	84970			33.76- 93.76	64.53
13.910	13.908	(1.030)	111	61402			15.28- 75.28	46.63
91 1,2-dibromo-3-chloropropane						CAS #: 96-12-8		
14.597	14.592	(1.081)	75	15323	21.0041	21.0	70.00- 130.00	100.00
14.597	14.594	(1.081)	155	11101			41.95- 101.95	72.45

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RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/l)	FINAL (ug/l)	TARGET RANGE	RATIO
91 1,2-dibromo-3-chloropropane (continued)								
14.598	14.594	(1.081)	157	13837			61.28- 121.28	90.30
92 1,2,4-Trichlorobenzene						CAS #: 120-82-1		
15.253	15.246	(1.130)	180	95385	22.5910	22.6	70.00- 130.00	100.00
15.253	15.246	(1.130)	182	92131			65.73- 125.73	96.59
15.253	15.245	(1.130)	145	30634			2.14- 62.14	32.12
93 Hexachlorobutadiene						CAS #: 87-68-3		
15.350	15.343	(1.137)	225	35294			70.00- 130.00	100.00
15.350	15.342	(1.137)	223	20507	21.7700	21.8	33.12- 93.12	58.10
15.351	15.343	(1.137)	227	21015			35.04- 95.04	59.54
94 Naphthalene						CAS #: 91-20-3		
15.436	15.427	(1.143)	128	237120	24.6513	24.6	70.00- 130.00	100.00
15.436	15.427	(1.143)	127	30366			0.00- 42.70	12.81
15.436	15.427	(1.143)	129	27103			0.00- 40.83	11.43
95 1,2,3-trichlorobenzene						CAS #: 87-61-6		
15.603	15.595	(1.156)	180	87805	23.2319	23.2	70.00- 130.00	100.00
15.603	15.595	(1.156)	182	83468			66.42- 126.42	95.06
15.602	15.594	(1.156)	145	29716			3.71- 63.71	33.84

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10210.D
Report Date: 26-Sep-2002 08:46

PEL Laboratories, Inc.

Data file : \\Vms03\dd\chem\vms03.i\M3092502.b\10210.D
Lab Smp Id: 220910210
Inj Date : 25-SEP-2002 07:37
Operator :
Smp Info : 220910210;2209102;1;
Misc Info :
Comment :
Method : \\Vms03\dd\chem\vms03.i\M3092502.b\8260A.m
Meth Date : 26-Sep-2002 08:44 lpelo
Cal Date : 27-AUG-2002 09:41
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP Genie
Target Version: 4.04
Processing Host: PELCOMP01

Client Smp ID: 11Q30228MS
MS Autotune Date: 29-OCT-2001 10:36
Inst ID: vms03.i

Quant Type: ISTD
Cal File: 80PPB.D
QC Sample: MS

Compound Sublist: all.sub
Sample Matrix: WATER

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10210.D
Report Date: 26-Sep-2002 08:46

PEL Laboratories, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vms03.i
Lab File ID: 10210.D
Lab Smp Id: 220910210
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\Vms03\dd\chem\vms03.i\M3092502.b\8260A.m
Misc Info:

Calibration Date: 25-SEP-2002
Calibration Time: 06:02
Client Smp ID: 11Q30228MS
Level: LOW
Sample Type: WATER

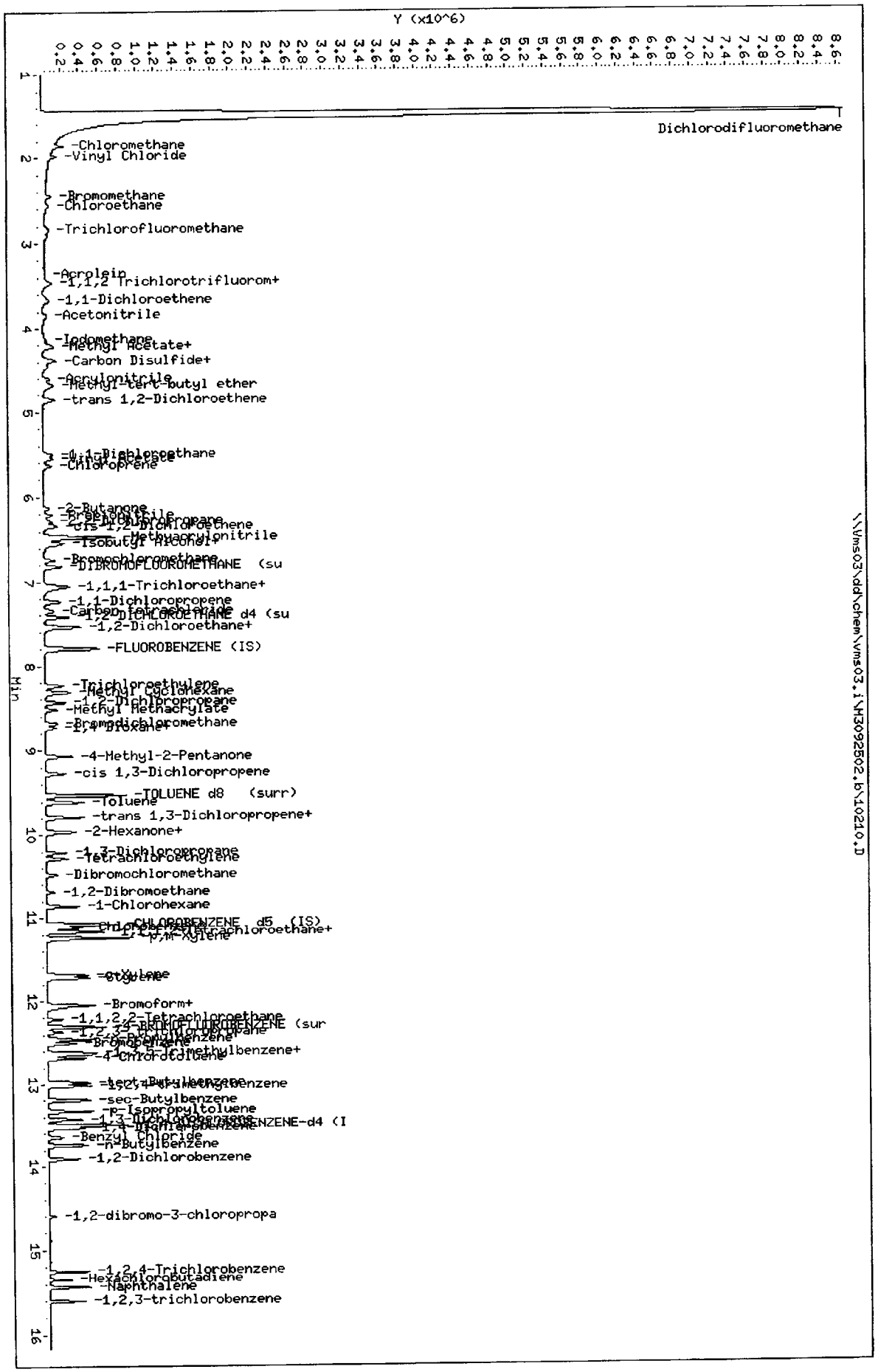
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
42 FLUOROBENZENE (IS	556115	278058	1112230	559459	0.60
63 CHLOROBENZENE d5	400449	200225	800898	394852	-1.40
86 1,4-DICHLOROBENZE	210064	105032	420128	207540	-1.20

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
42 FLUOROBENZENE (IS	7.79	7.29	8.29	7.80	0.05
63 CHLOROBENZENE d5	11.07	10.57	11.57	11.08	0.02
86 1,4-DICHLOROBENZE	13.50	13.00	14.00	13.50	0.02

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10210.D
Date : 25-SEP-2002 07:37
Client ID: 11Q30228MS
Sample Info: 22091021O;22091O2;1;
Purge Volume: 5.0
Column phase: DB-624

Instrument: vms03.i
Operator:
Column diameter: 0.18



Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10210.D

Date : 25-SEP-2002 07:37

Client ID: 11Q30228MS

Instrument: vms03.i

Sample Info: 220910210;2209102;1;

Purge Volume: 5.0

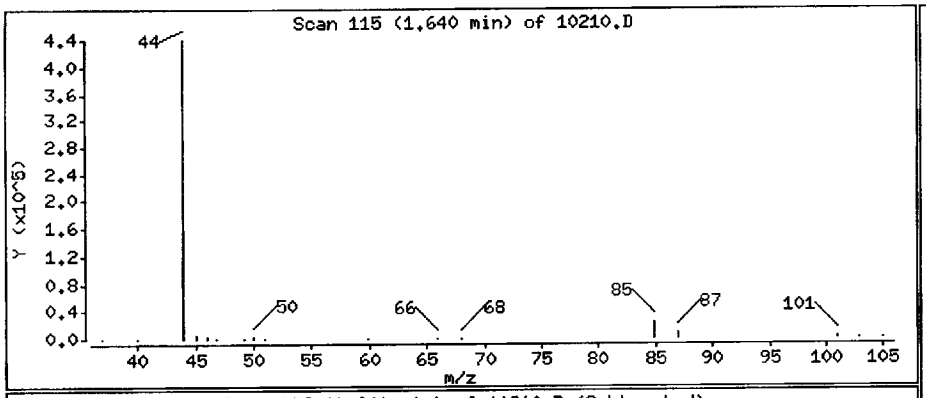
Operator:

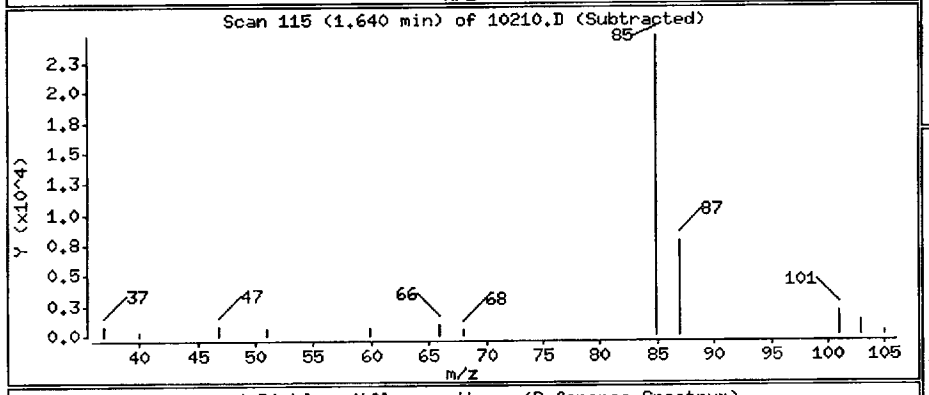
Column phase: DB-624

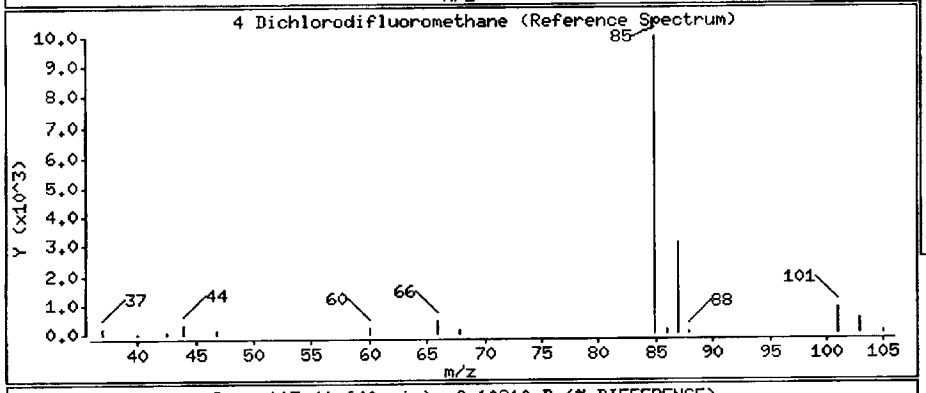
Column diameter: 0.18

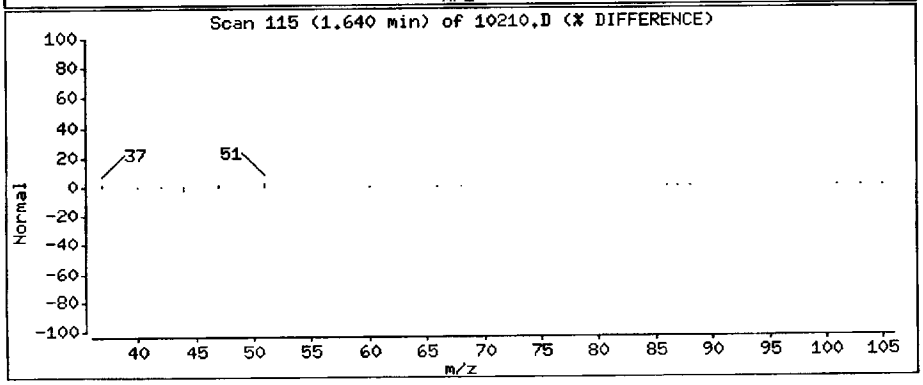
4 Dichlorodifluoromethane

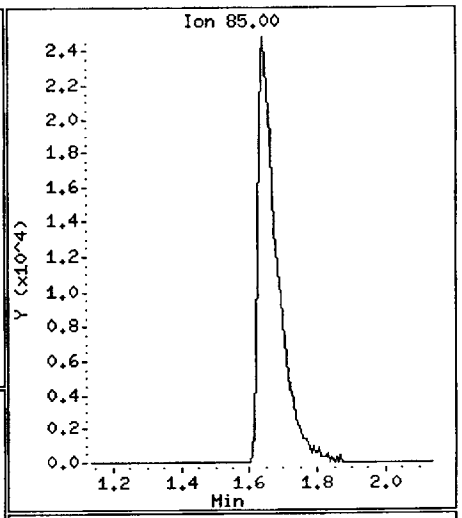
Concentration: 19.1 ug/l

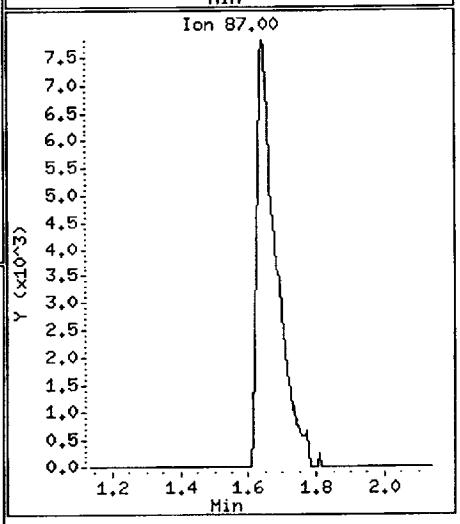












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10210.D

Date : 25-SEP-2002 07:37

Client ID: 11Q30228MS

Instrument: vms03.i

Sample Info: 220910210;2209102;1;

Purge Volume: 5.0

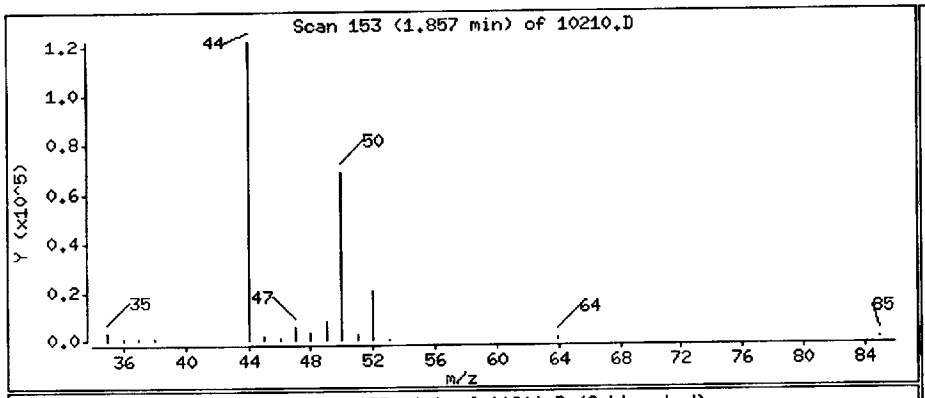
Operator:

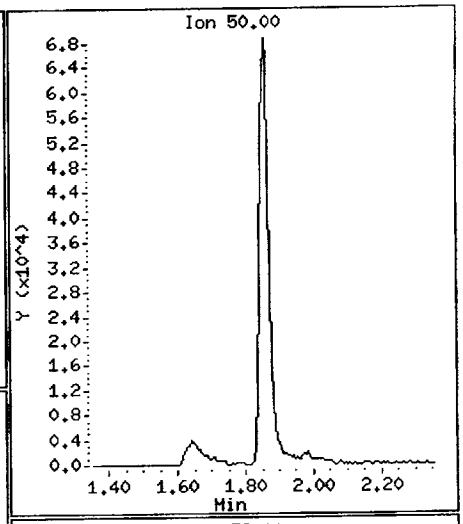
Column phase: DB-624

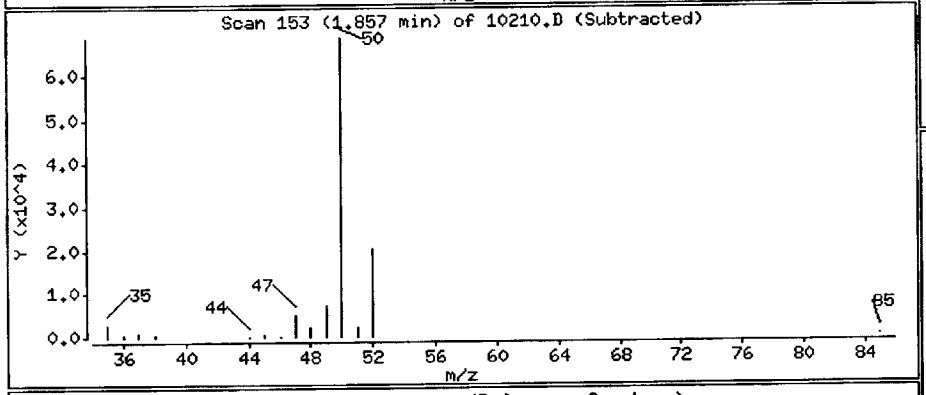
Column diameter: 0.18

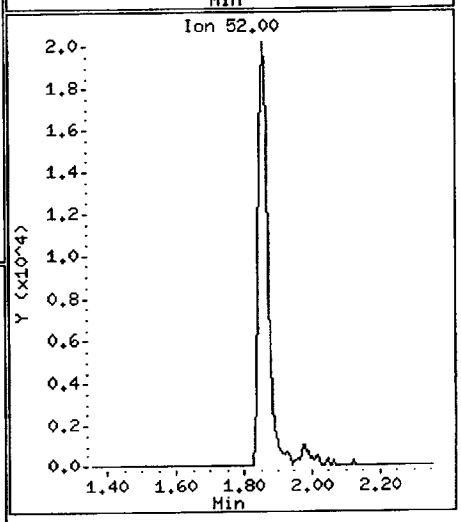
5 Chloromethane

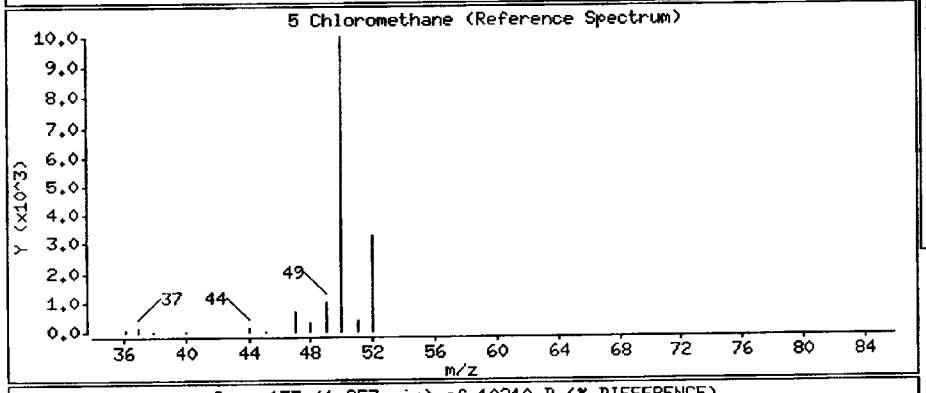
Concentration: 19.4 ug/l

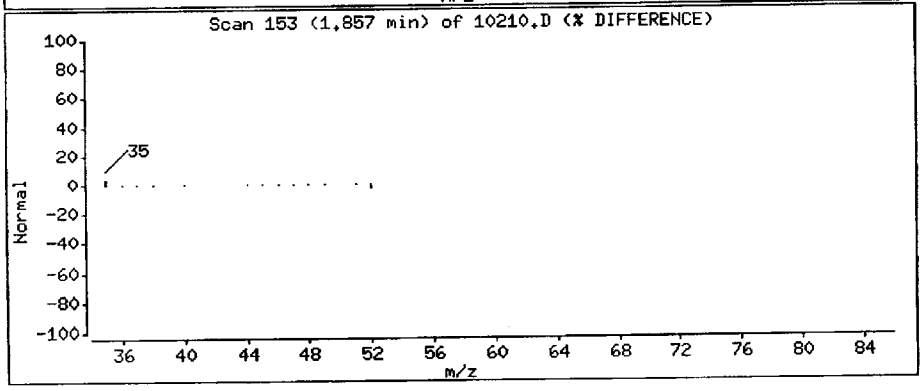












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Date : 25-SEP-2002 07:37

Client ID: 11Q30228MS

Instrument: vms03.i

Sample Info: 220910210;2209102;1;

Purge Volume: 5.0

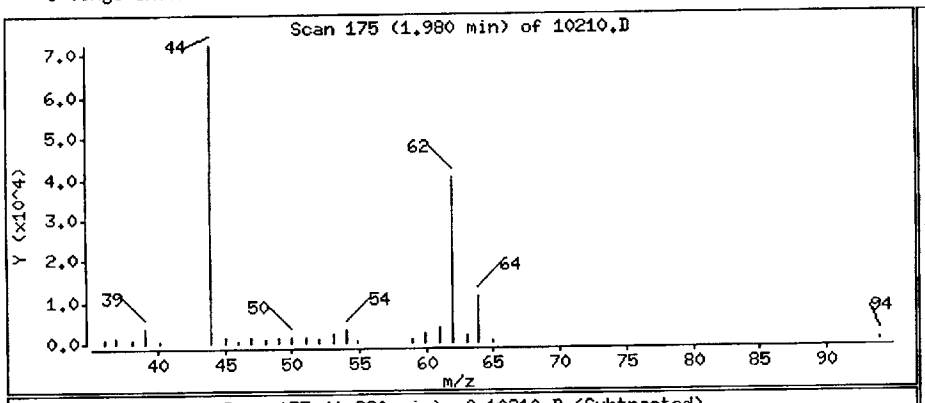
Operator:

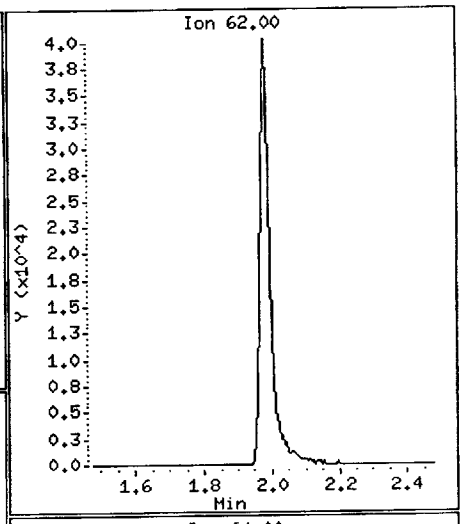
Column phase: DB-624

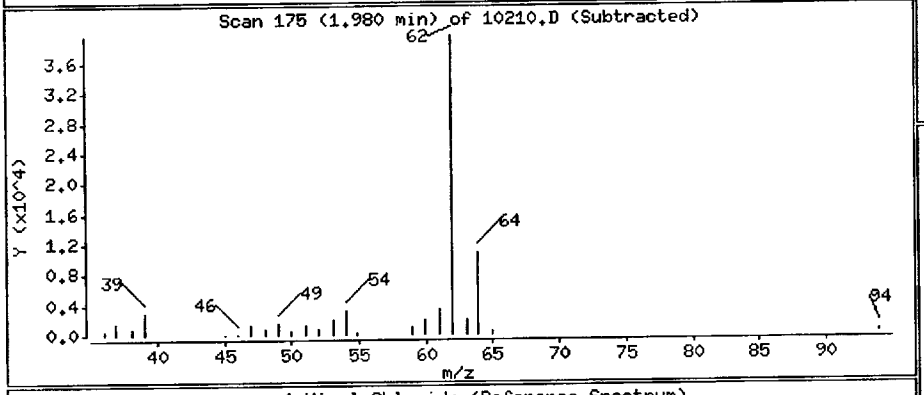
Column diameter: 0.18

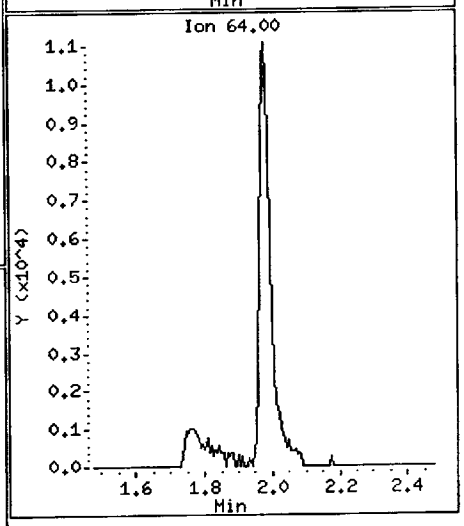
6 Vinyl Chloride

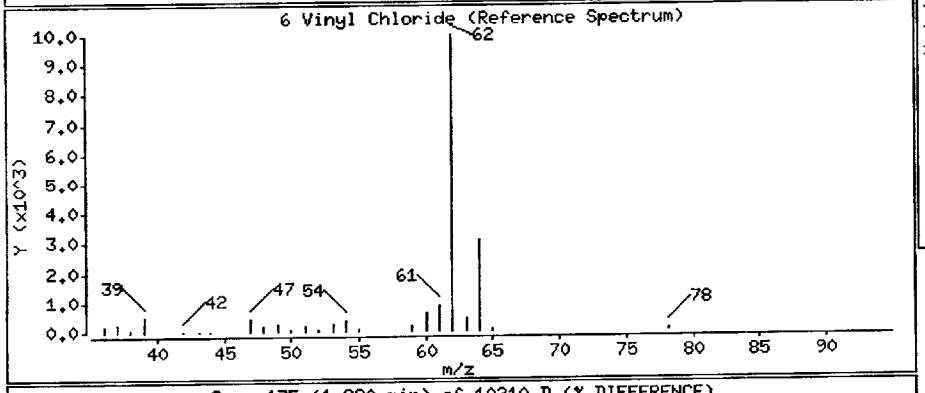
Concentration: 18.5 ug/l

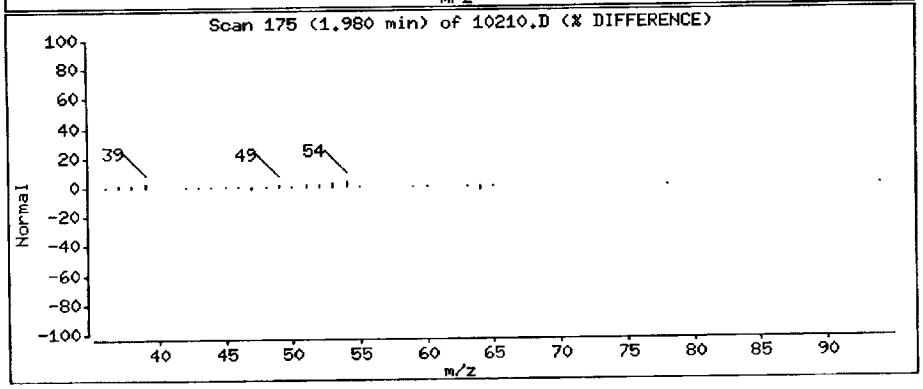












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Date : 25-SEP-2002 07:37

Client ID: 11Q30228MS

Instrument: vms03.i

Sample Info: 220910210;2209102;1;

Purge Volume: 5.0

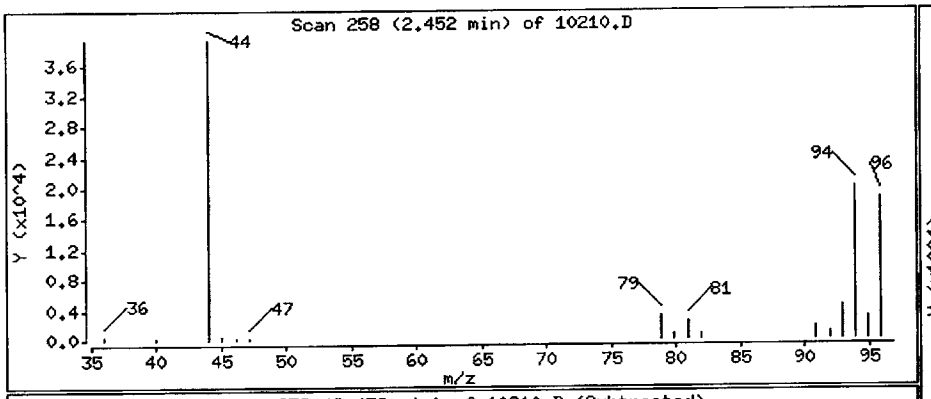
Operator:

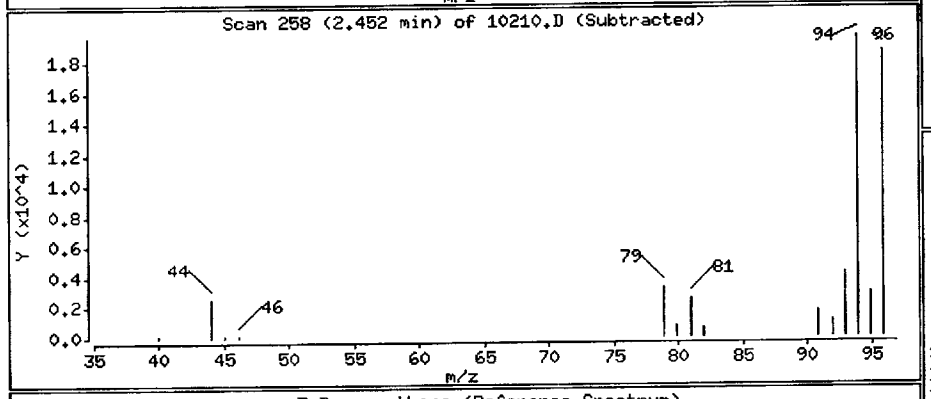
Column phase: DB-624

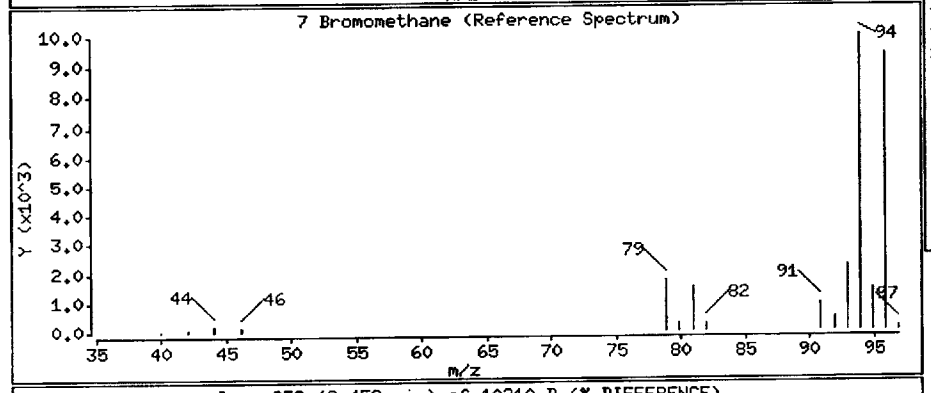
Column diameter: 0.18

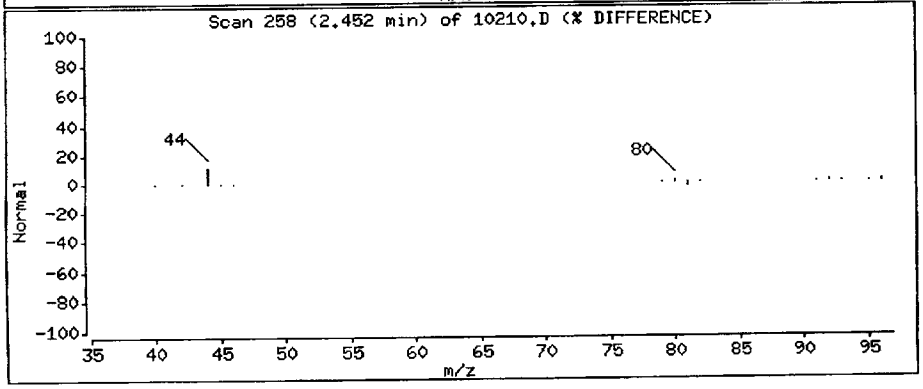
7 Bromomethane

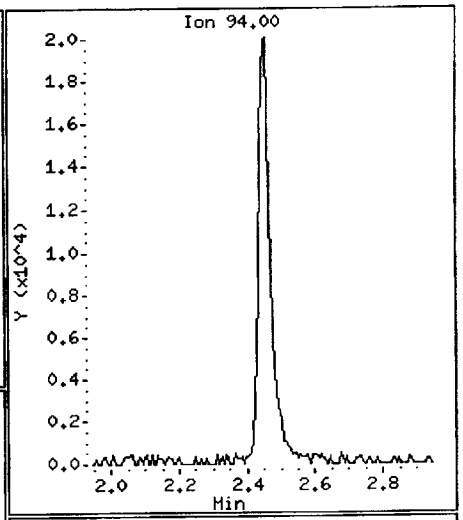
Concentration: 20.7 ug/l

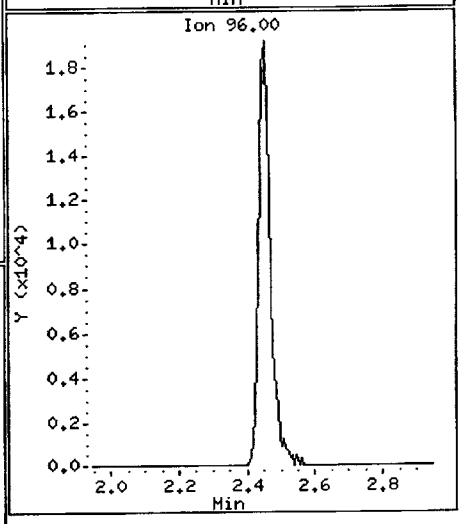












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Date : 25-SEP-2002 07:37

Client ID: 11Q30228MS

Instrument: vms03.i

Sample Info: 220910210;2209102;1;

Purge Volume: 5.0

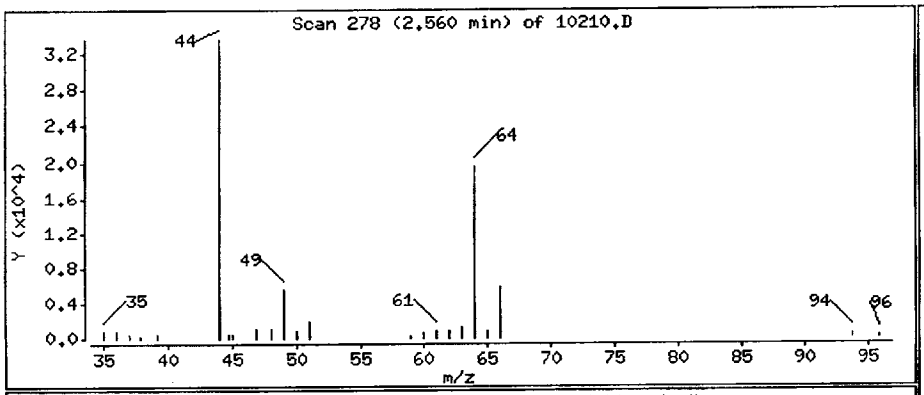
Operator:

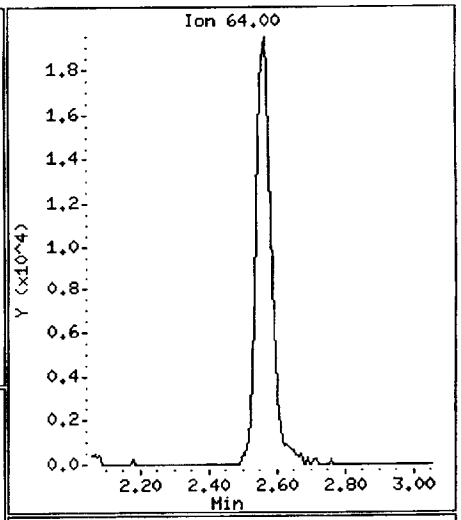
Column phase: DB-624

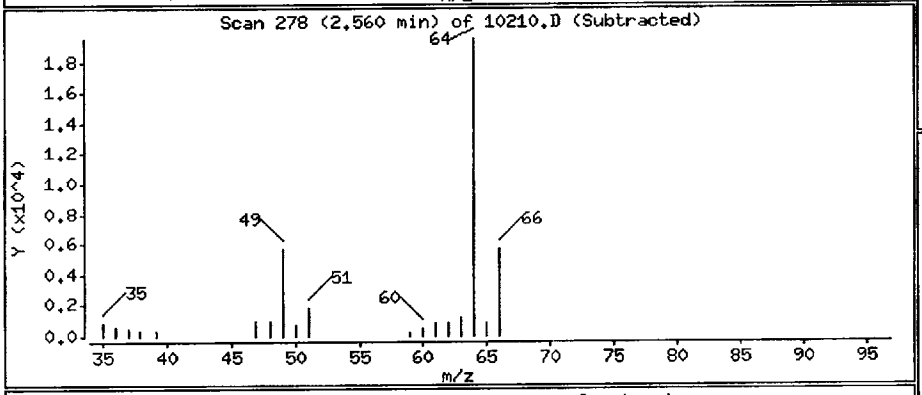
Column diameter: 0.18

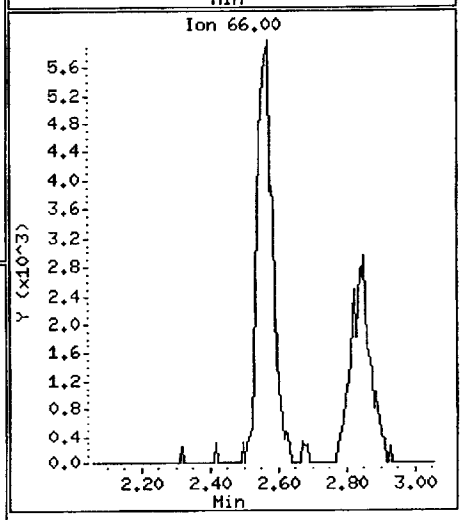
8 Chloroethane

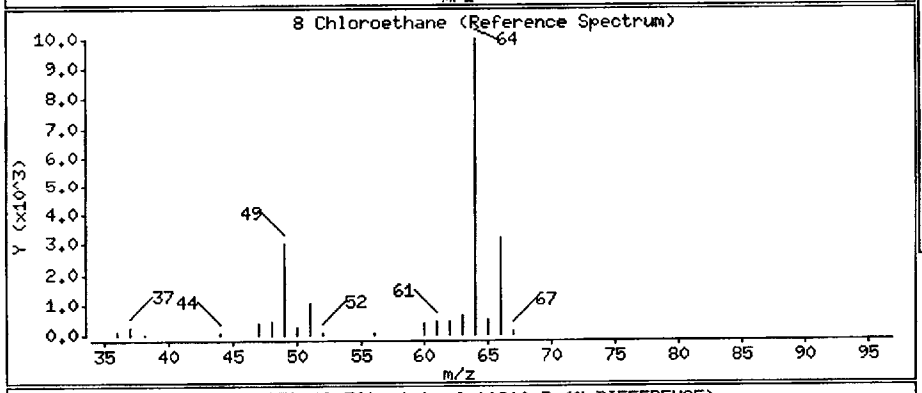
Concentration: 20.9 ug/l

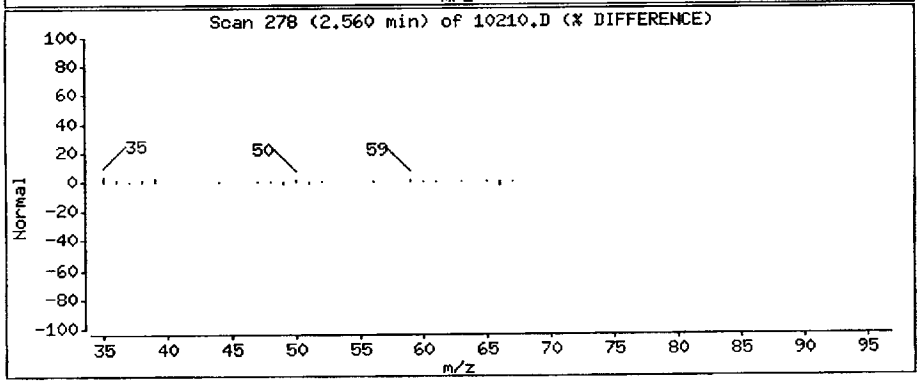












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Date : 25-SEP-2002 07:37

Client ID: 11Q30228MS

Instrument: vms03.i

Sample Info: 220910210;2209102;1;

Purge Volume: 5.0

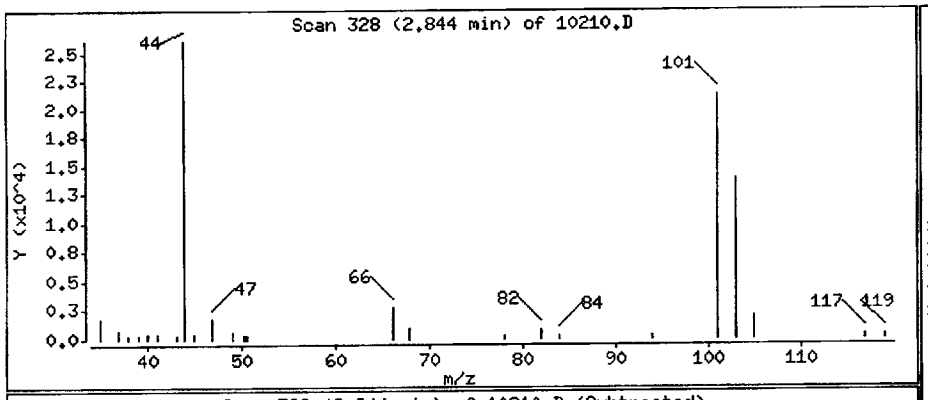
Operator:

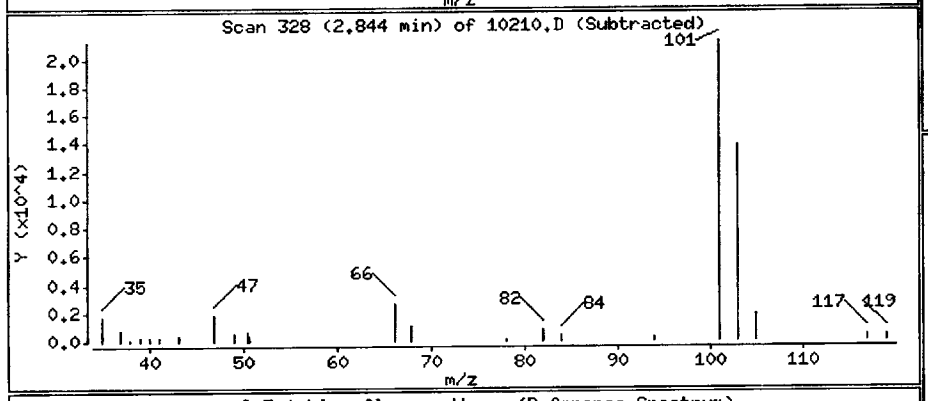
Column phase: DB-624

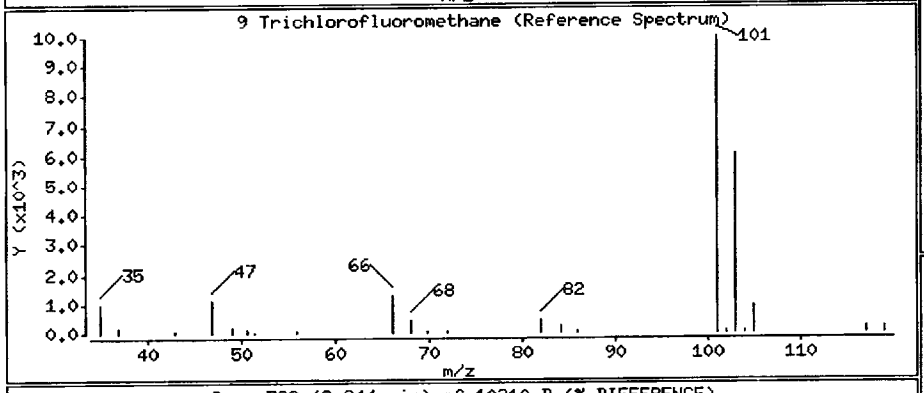
Column diameter: 0.18

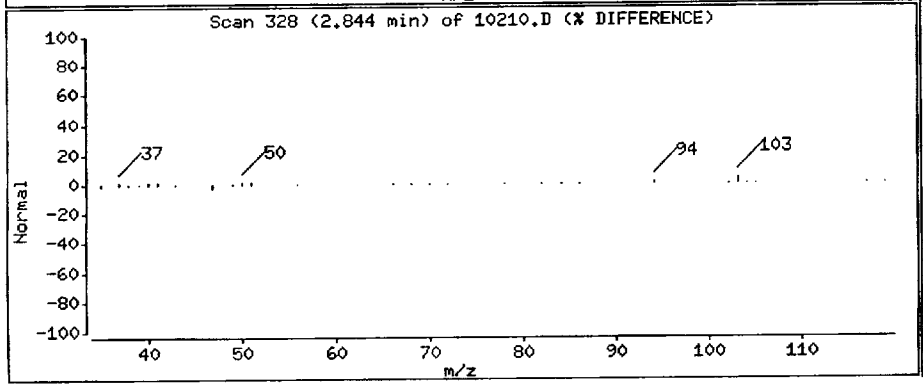
9 Trichlorofluoromethane

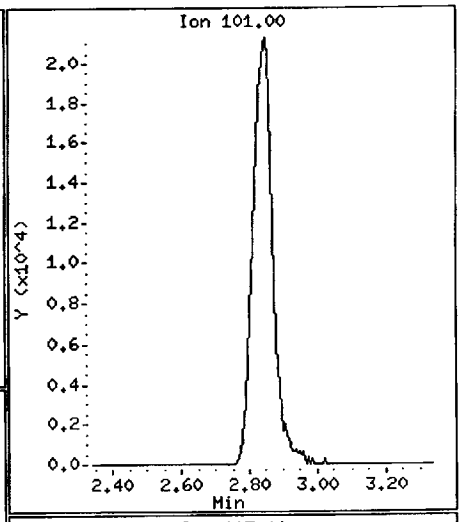
Concentration: 21.8 ug/l

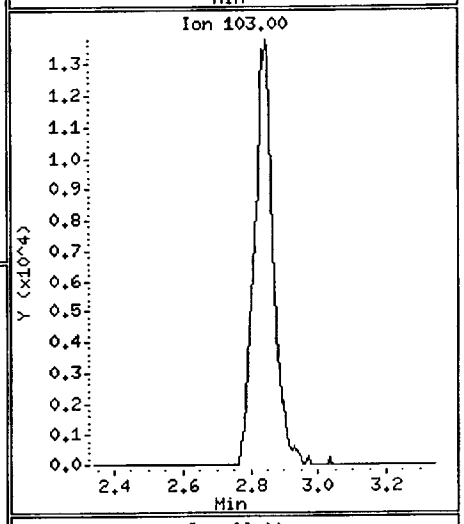


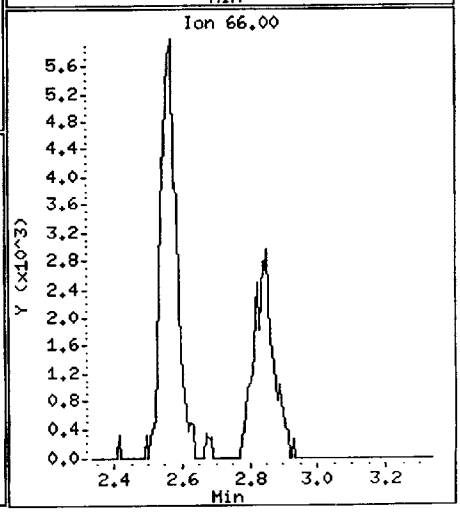












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Date : 25-SEP-2002 07:37

Client ID: 11Q30228MS

Instrument: vms03.i

Sample Info: 220910210;2209102;1;

Purge Volume: 5.0

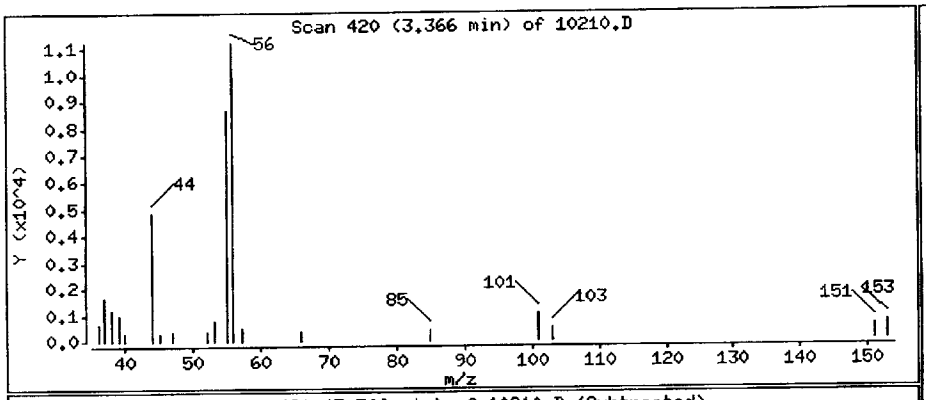
Operator:

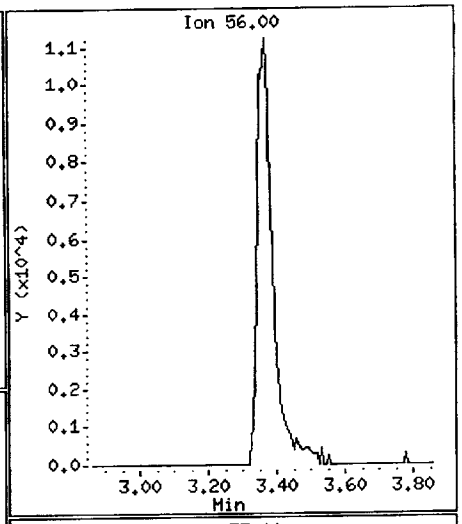
Column phase: DB-624

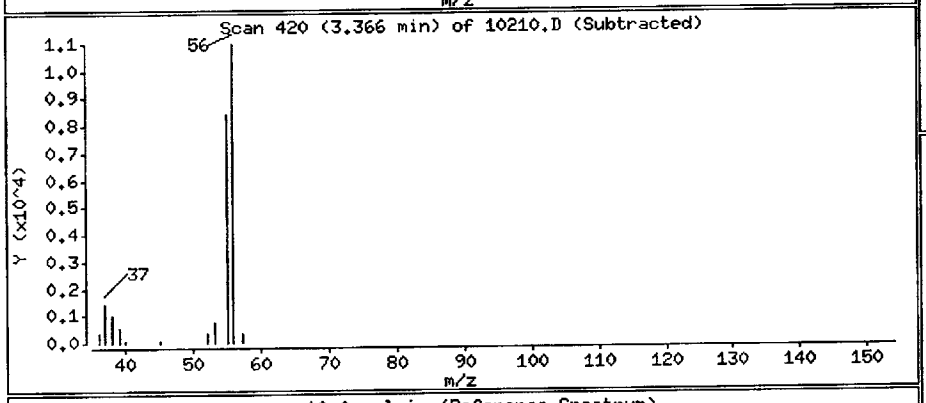
Column diameter: 0.18

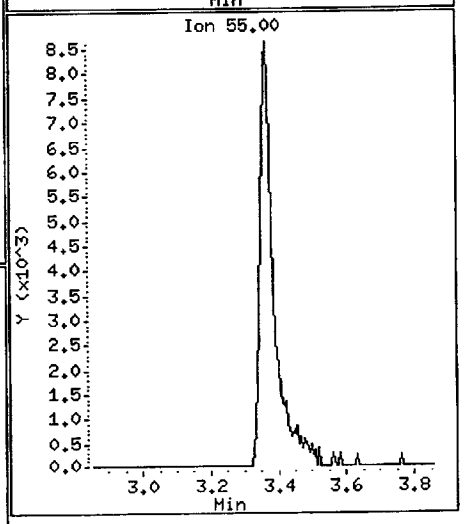
10 Acrolein

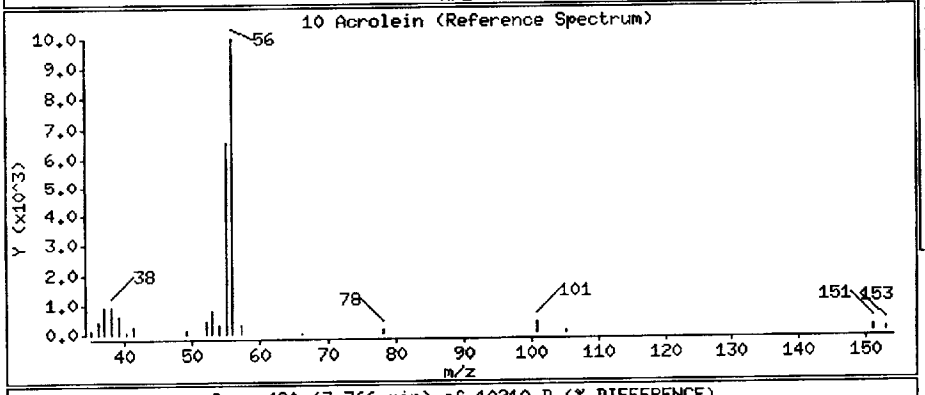
Concentration: 60.8 ug/l

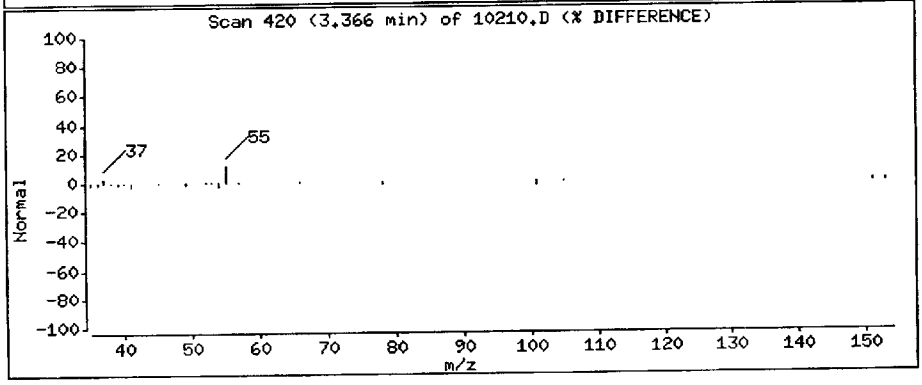












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Date : 25-SEP-2002 07:37

Client ID: 11Q30228MS

Instrument: vms03.i

Sample Info: 220910210;2209102;1;

Purge Volume: 5.0

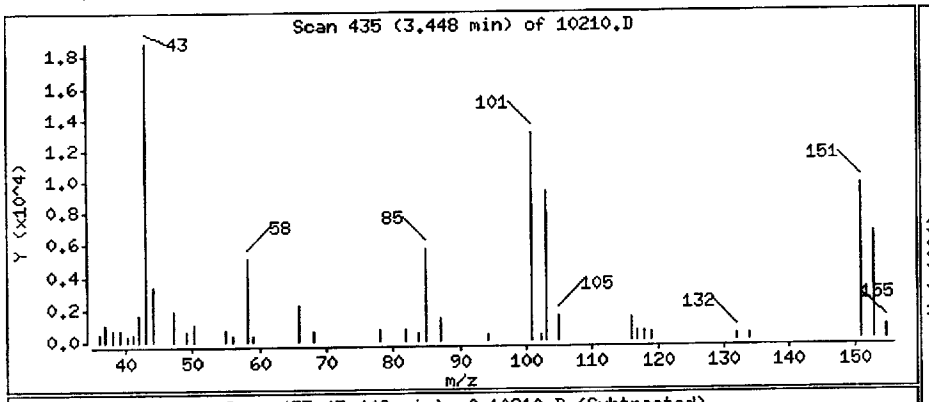
Operator:

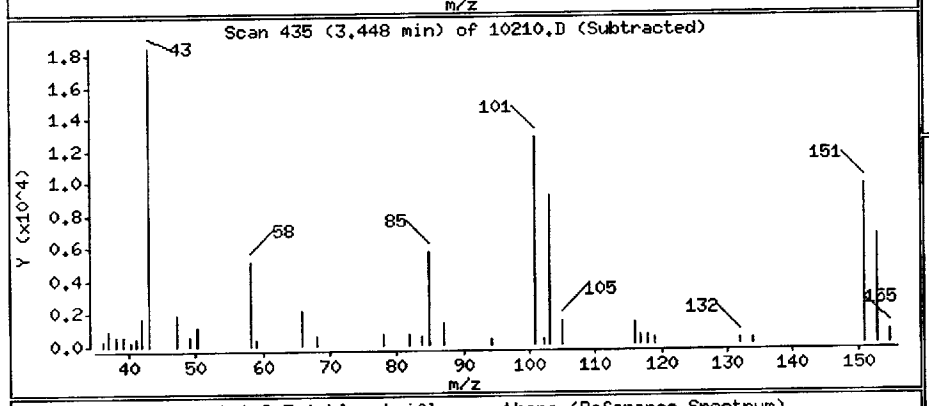
Column phase: DB-624

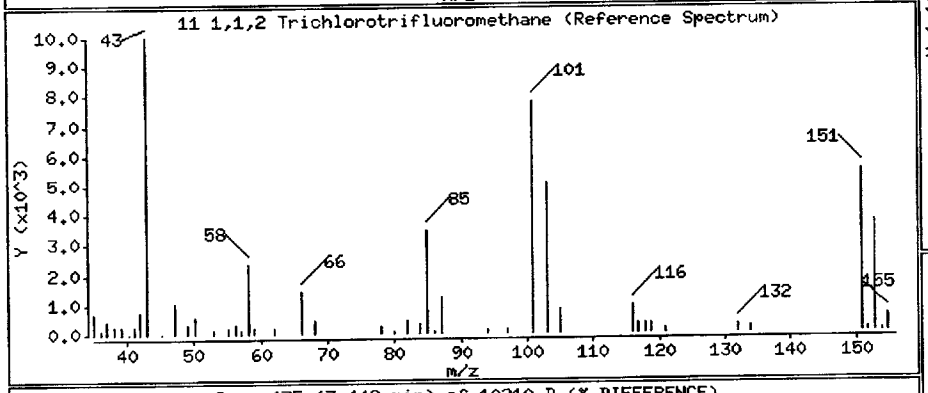
Column diameter: 0.18

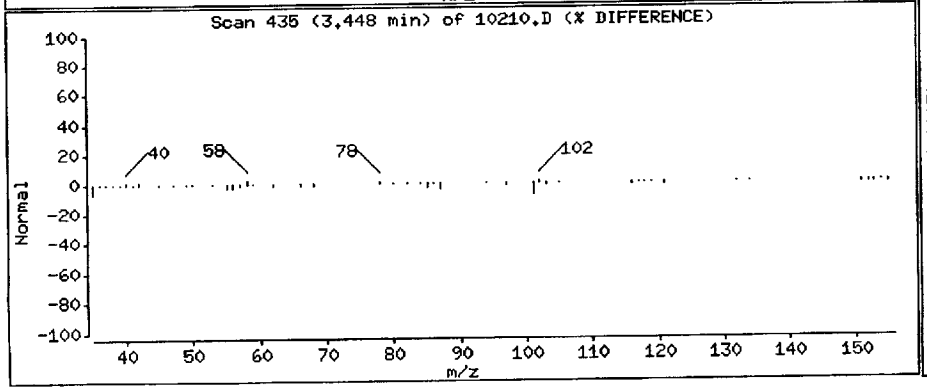
11 1,1,2 Trichlorotrifluoromethane

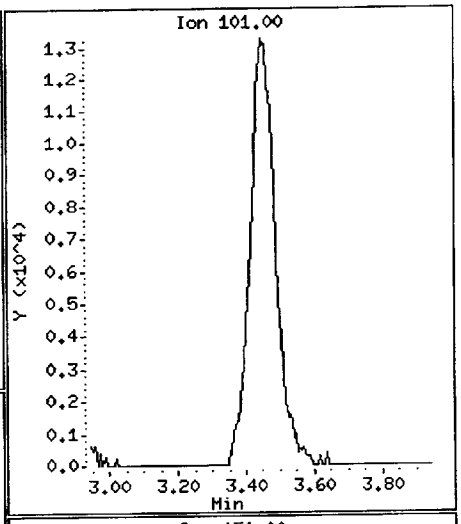
Concentration: 22.5 ug/l

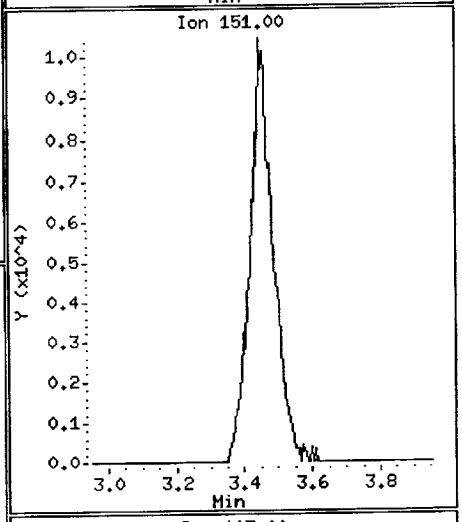


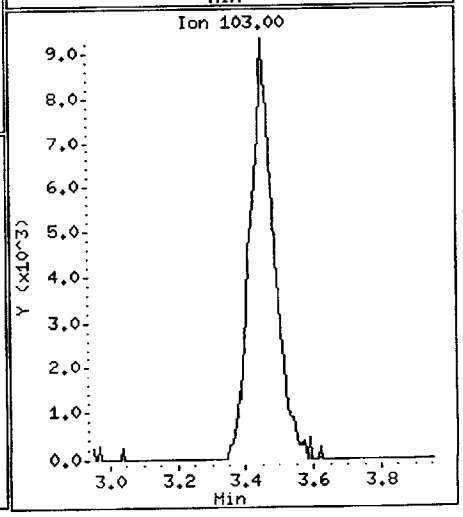












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10210.D

Date : 25-SEP-2002 07:37

Client ID: 11Q30228MS

Instrument: vms03.i

Sample Info: 220910210;2209102;1;

Purge Volume: 5.0

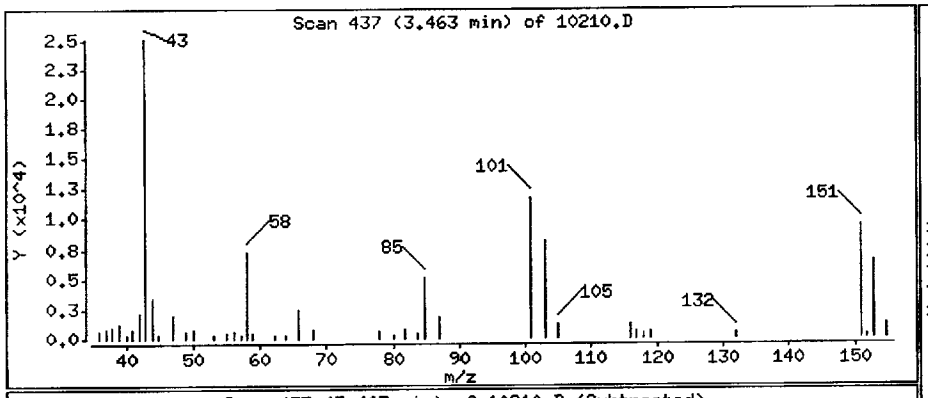
Operator:

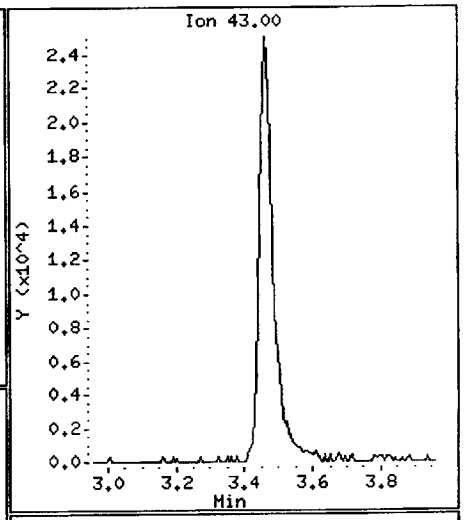
Column phase: DB-624

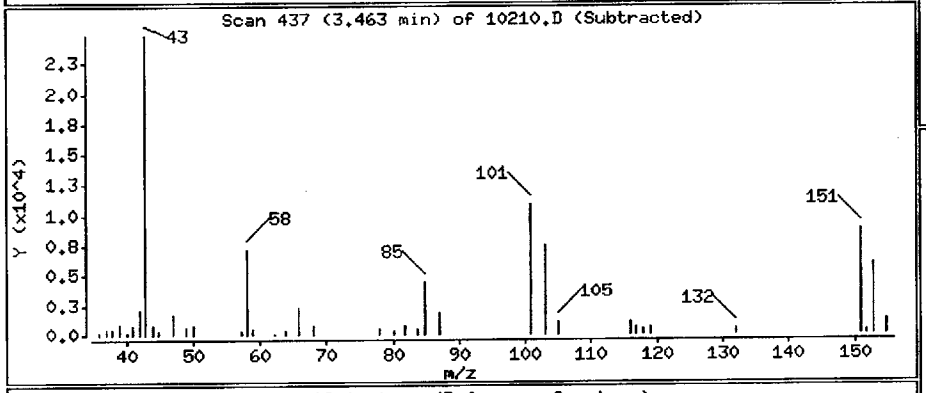
Column diameter: 0.18

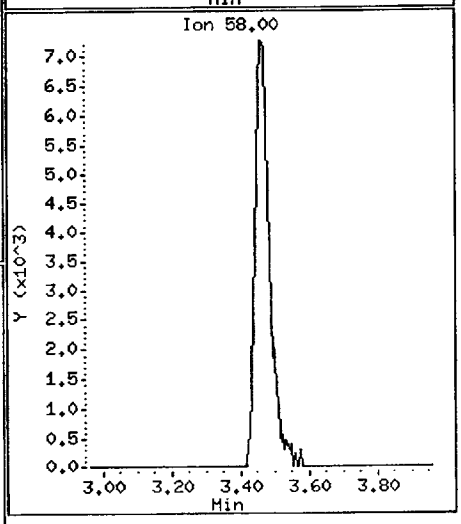
12 Acetone

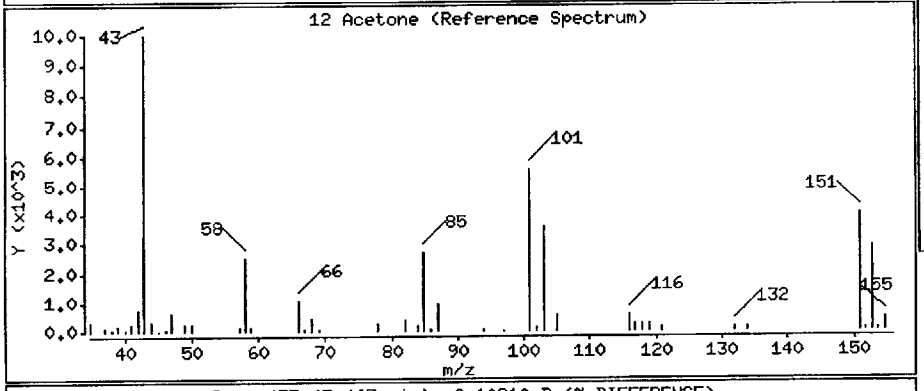
Concentration: 60.9 ug/l

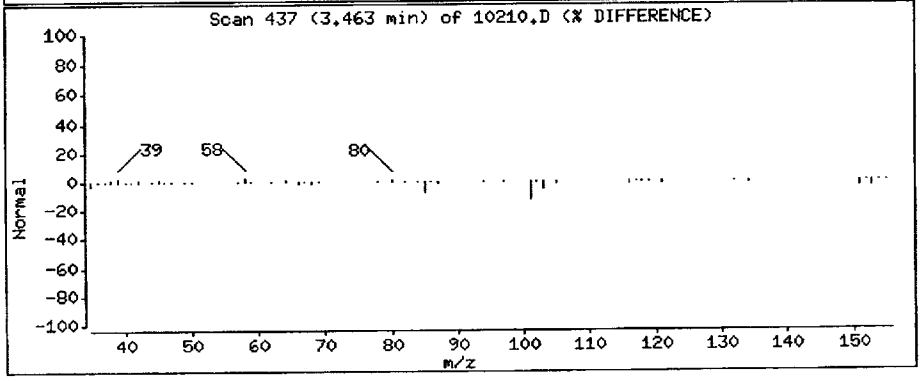












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10210.D

Date : 25-SEP-2002 07:37

Client ID: 11Q30228MS

Instrument: vms03.i

Sample Info: 220910210;2209102;1;

Purge Volume: 5.0

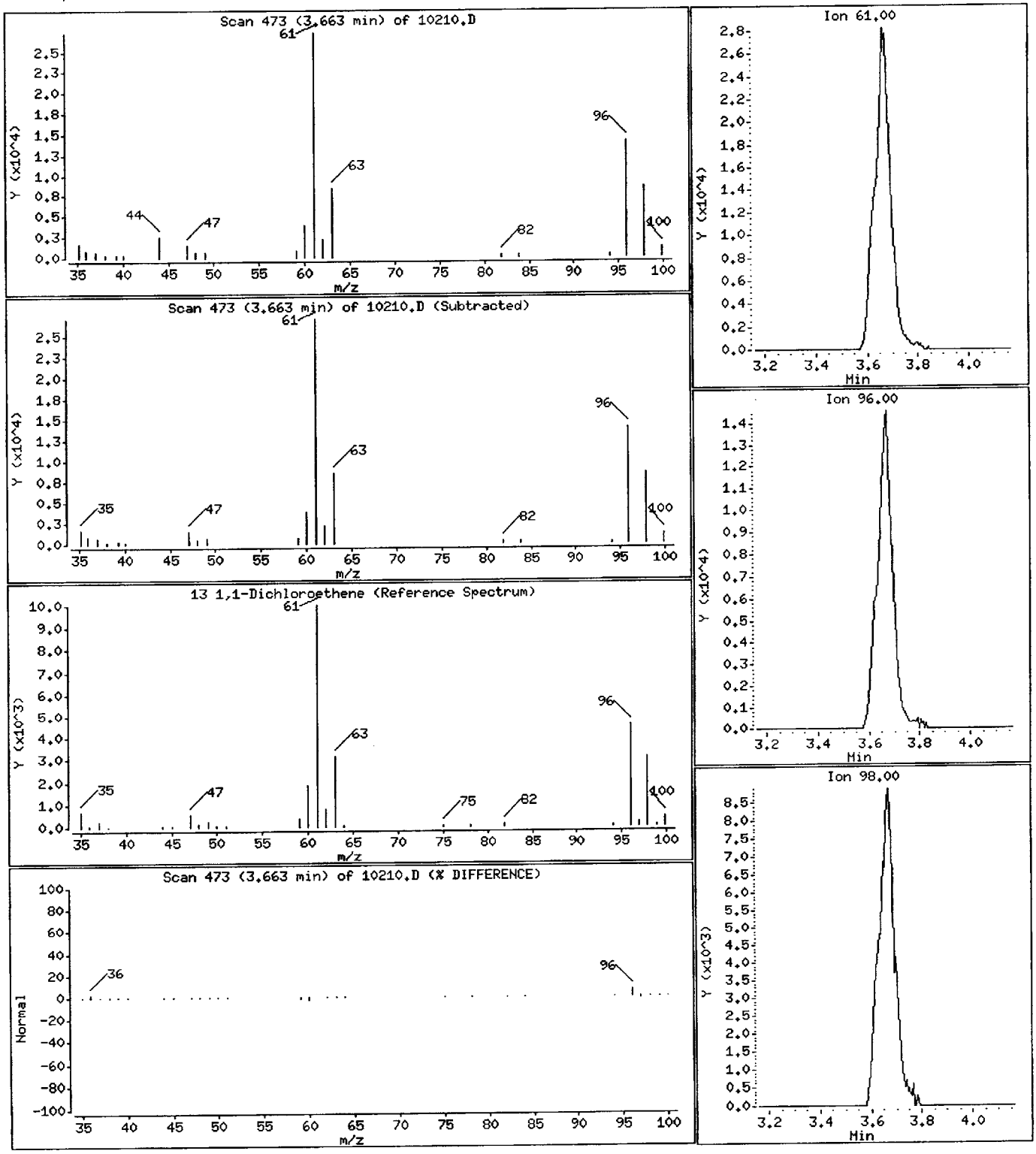
Operator:

Column phase: DB-624

Column diameter: 0.18

13 1,1-Dichloroethene

Concentration: 20.6 ug/l



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Date : 25-SEP-2002 07:37

Client ID: 11Q30228MS

Instrument: vms03.i

Sample Info: 220910210;2209102;1;

Purge Volume: 5.0

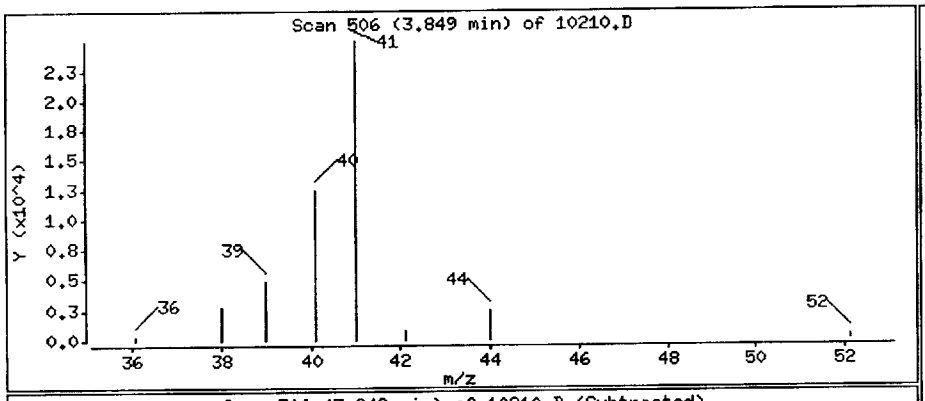
Operator:

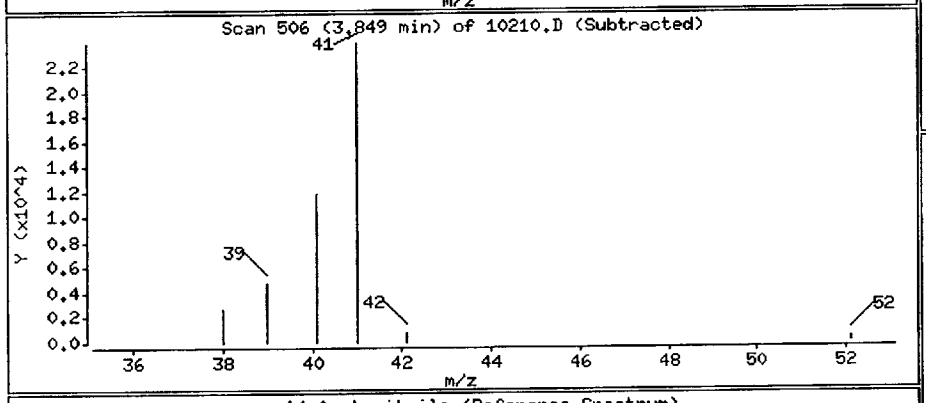
Column phase: DB-624

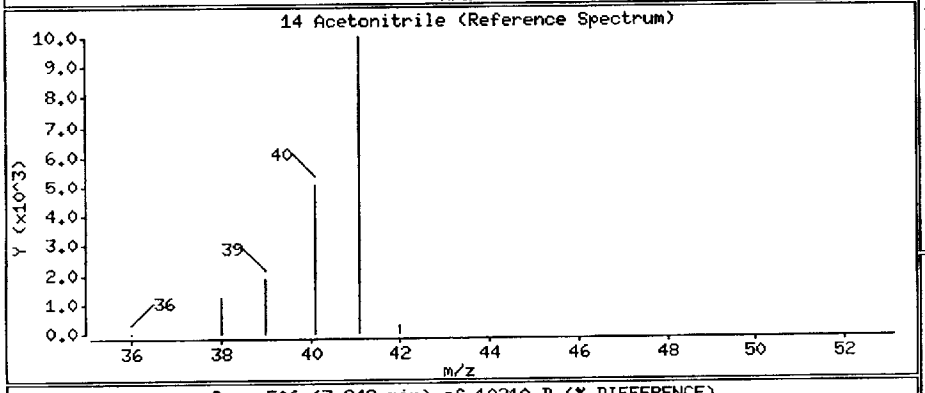
Column diameter: 0.18

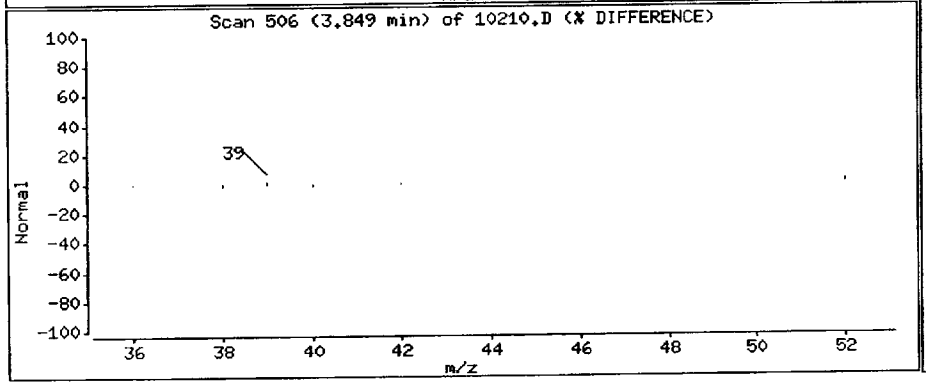
14 Acetonitrile

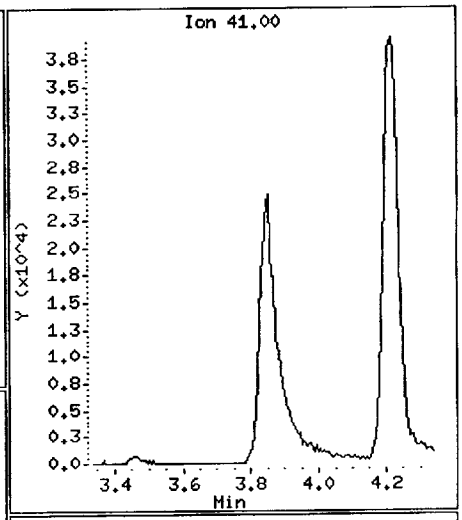
Concentration: 187 ug/l

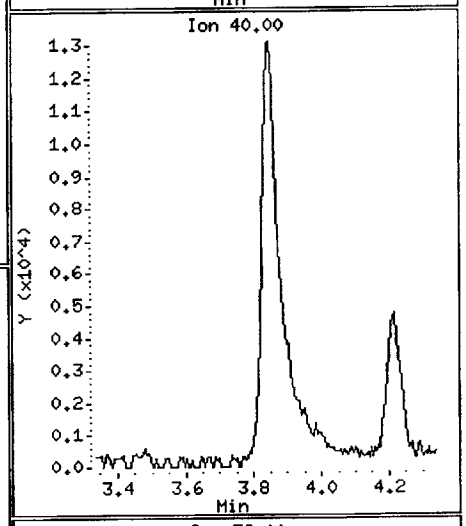


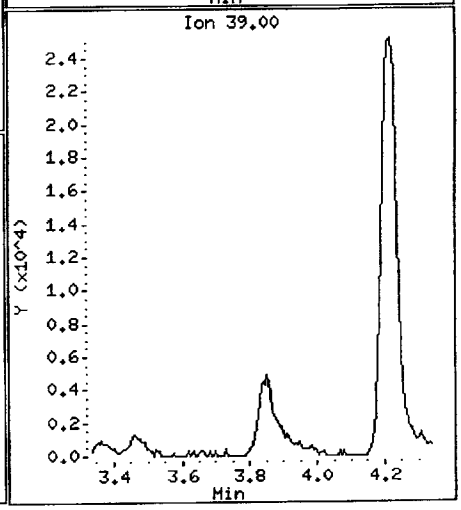












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Date : 25-SEP-2002 07:37

Client ID: 11Q30228MS

Instrument: vms03.i

Sample Info: 220910210;2209102;1;

Purge Volume: 5.0

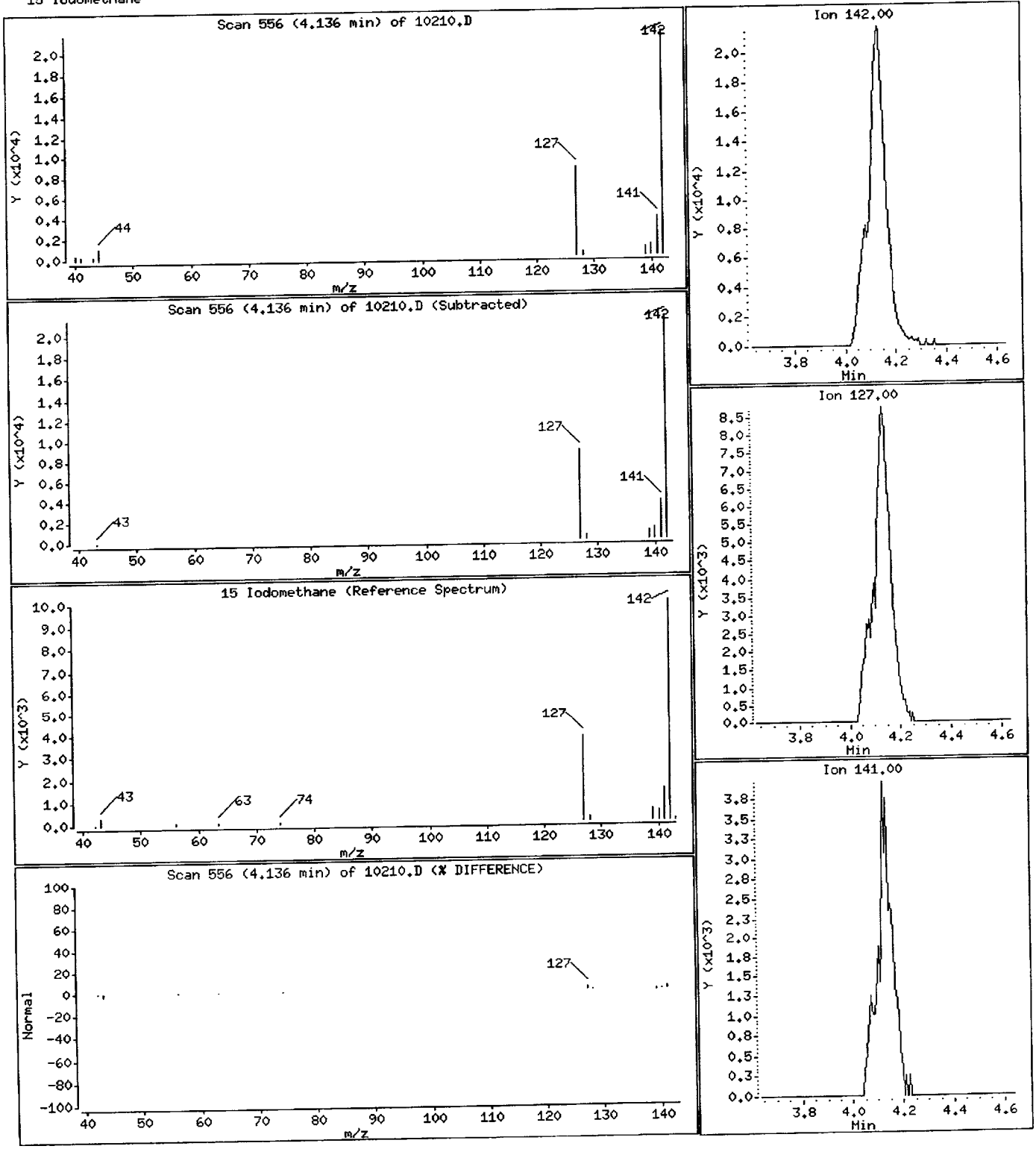
Operator:

Column phase: DB-624

Column diameter: 0.18

15 Iodomethane

Concentration: 20.3 ug/l



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Date : 25-SEP-2002 07:37

Client ID: 11Q30228MS

Instrument: vms03.i

Sample Info: 220910210;2209102;1;

Purge Volume: 5.0

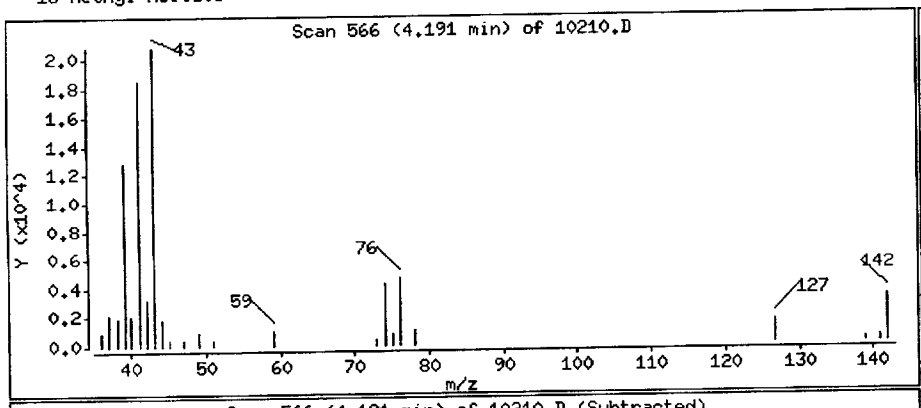
Operator:

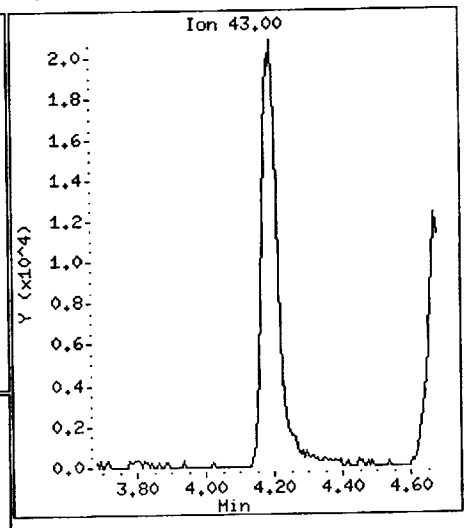
Column phase: DB-624

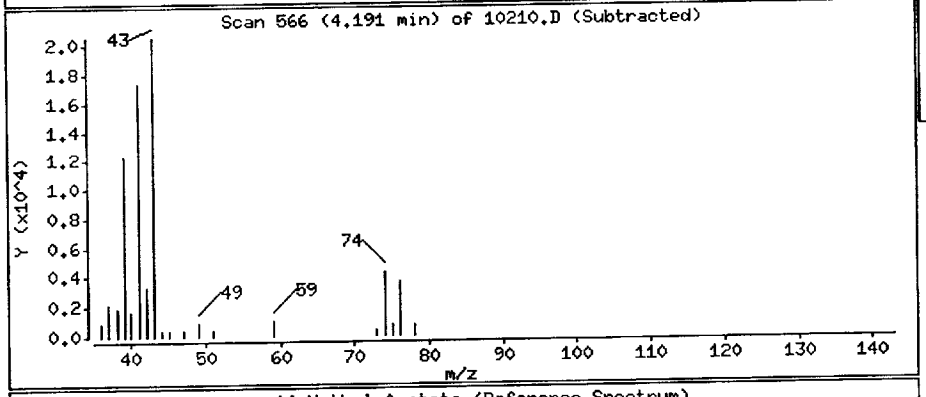
Column diameter: 0.18

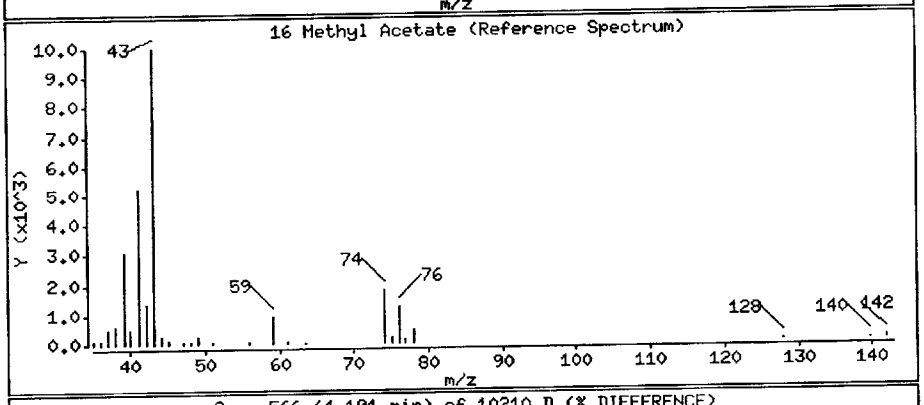
16 Methyl Acetate

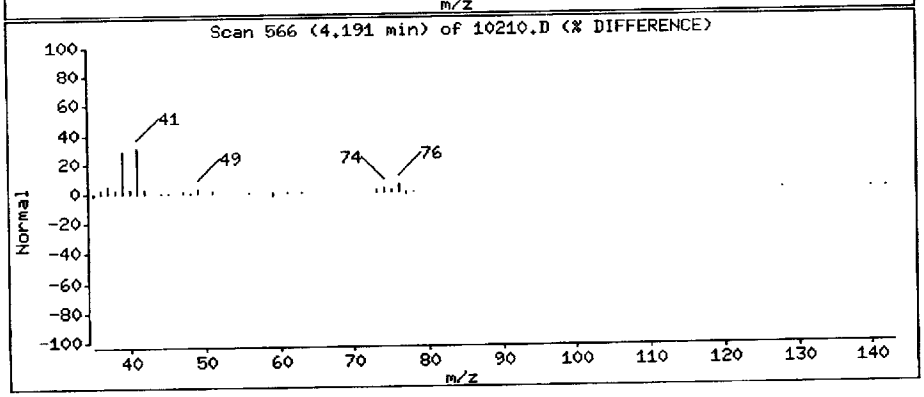
Concentration: 21.0 ug/l











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Date : 25-SEP-2002 07:37

Client ID: 11Q30228MS

Instrument: vms03.i

Sample Info: 220910210;2209102;1;

Purge Volume: 5.0

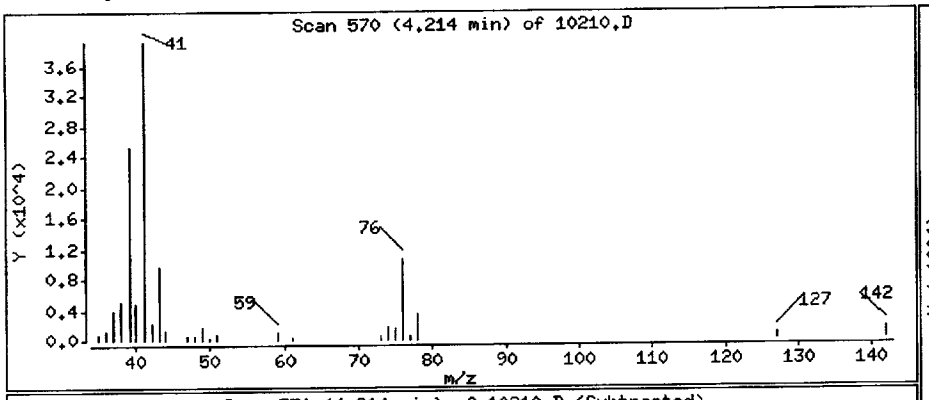
Operator:

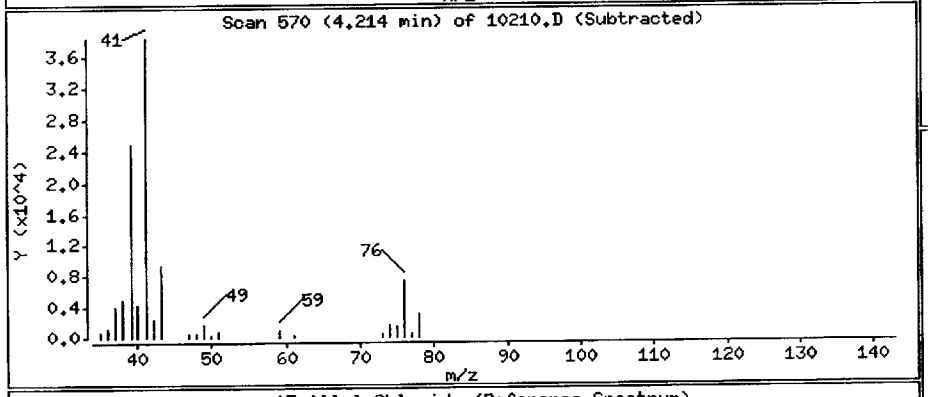
Column phase: DB-624

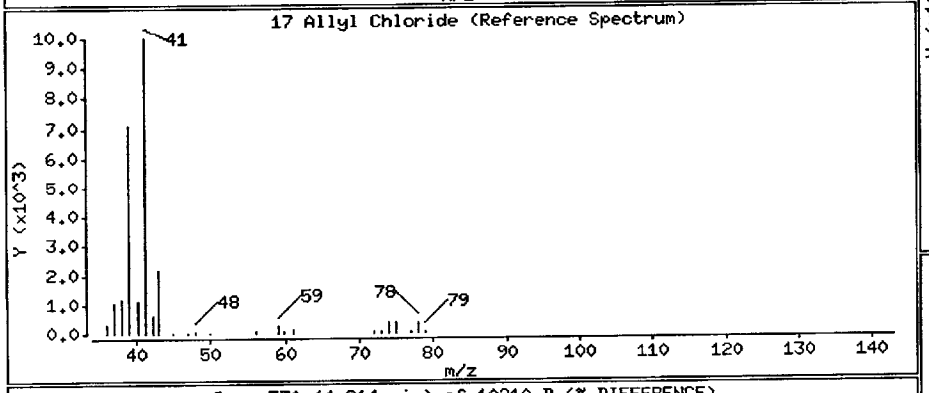
Column diameter: 0.18

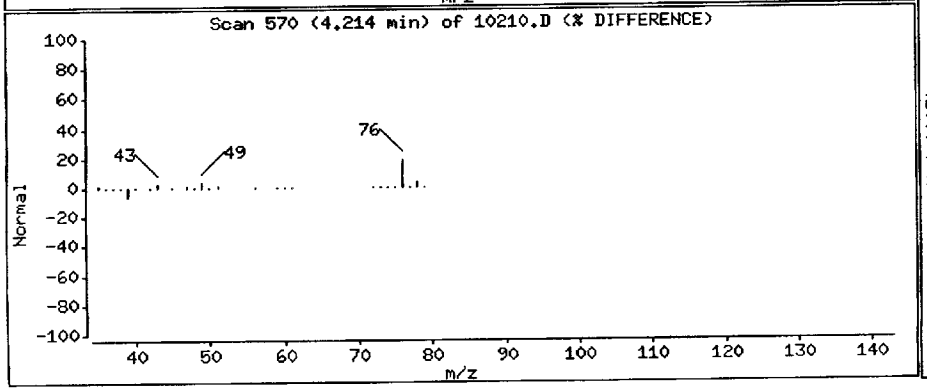
17 Allyl Chloride

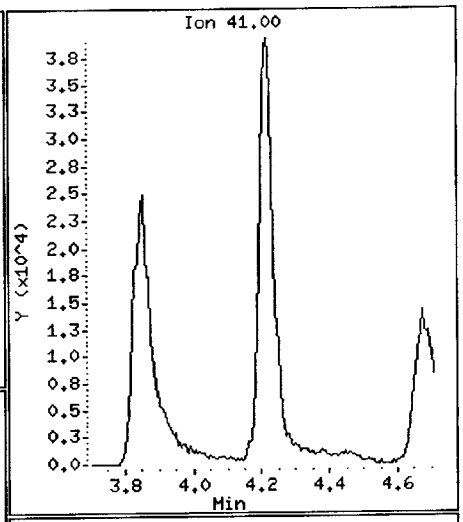
Concentration: 21.4 ug/l

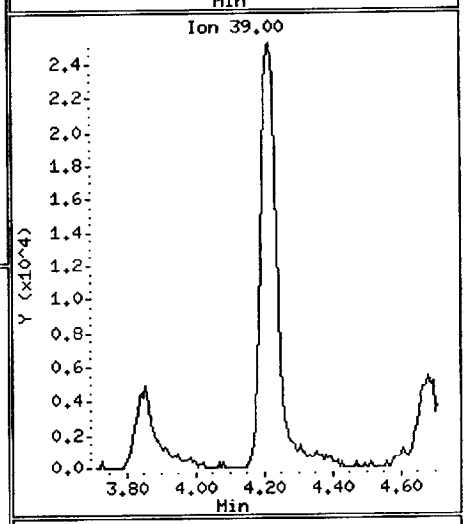


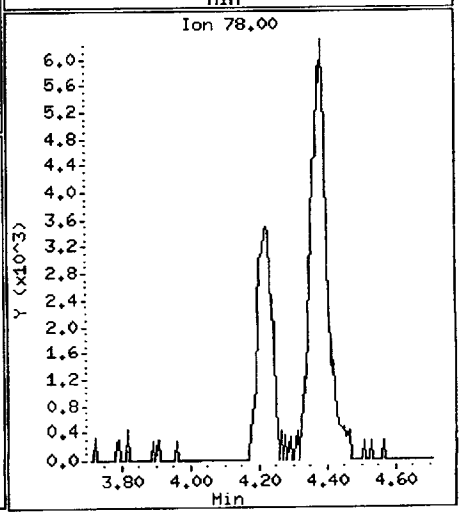












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Date : 25-SEP-2002 07:37

Client ID: 11Q30228HS

Instrument: vms03.i

Sample Info: 220910210;2209102;1;

Purge Volume: 5.0

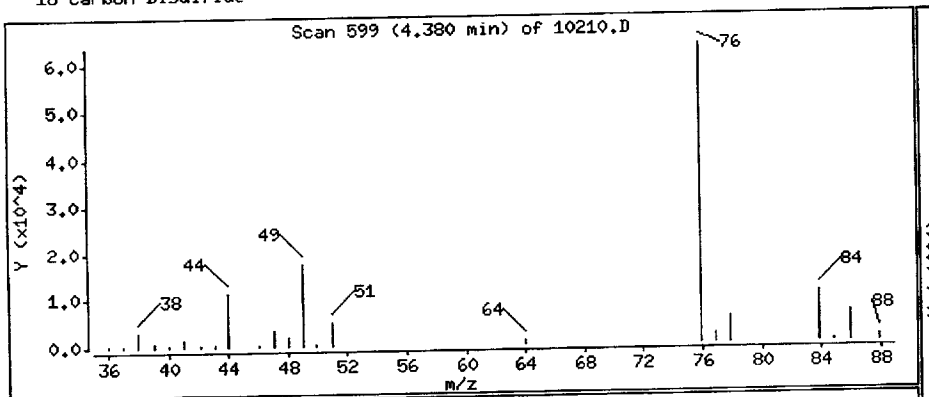
Operator:

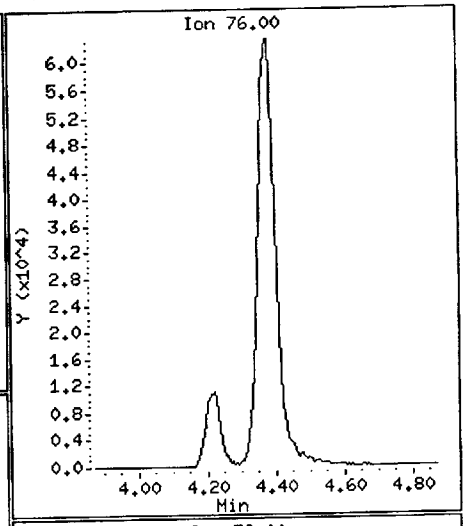
Column phase: DB-624

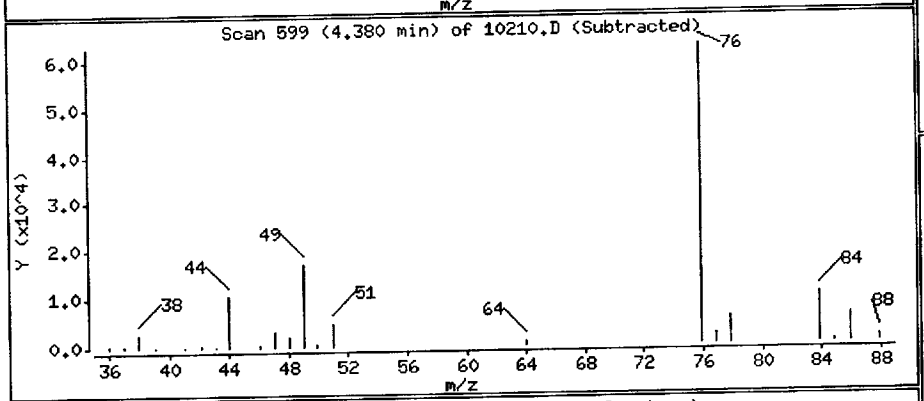
Column diameter: 0.18

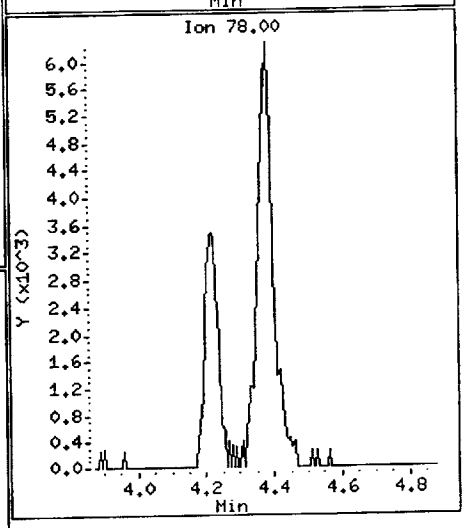
18 Carbon Disulfide

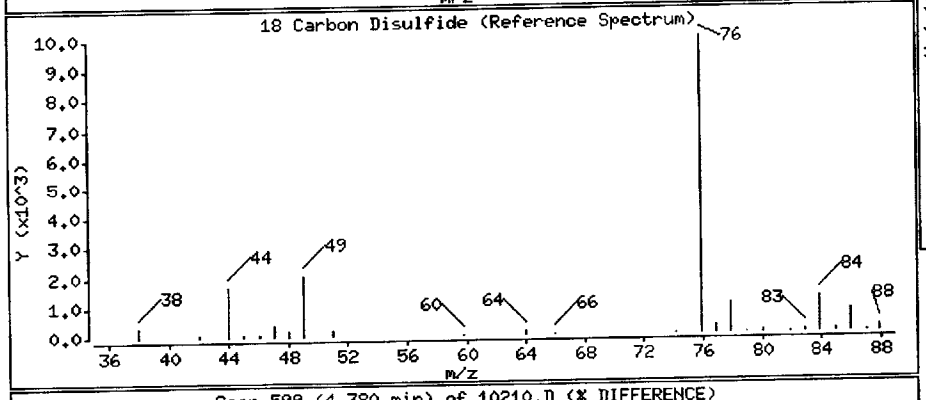
Concentration: 19.6 ug/l

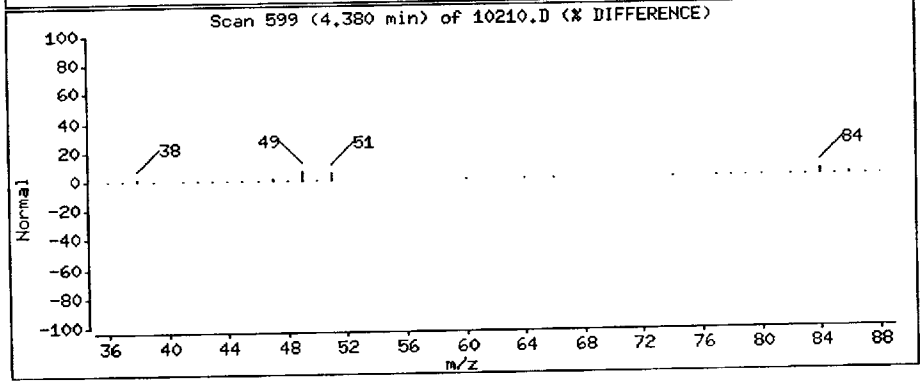












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Date : 25-SEP-2002 07:37

Client ID: 11Q30228MS

Instrument: vms03.i

Sample Info: 220910210;2209102;1;

Purge Volume: 5.0

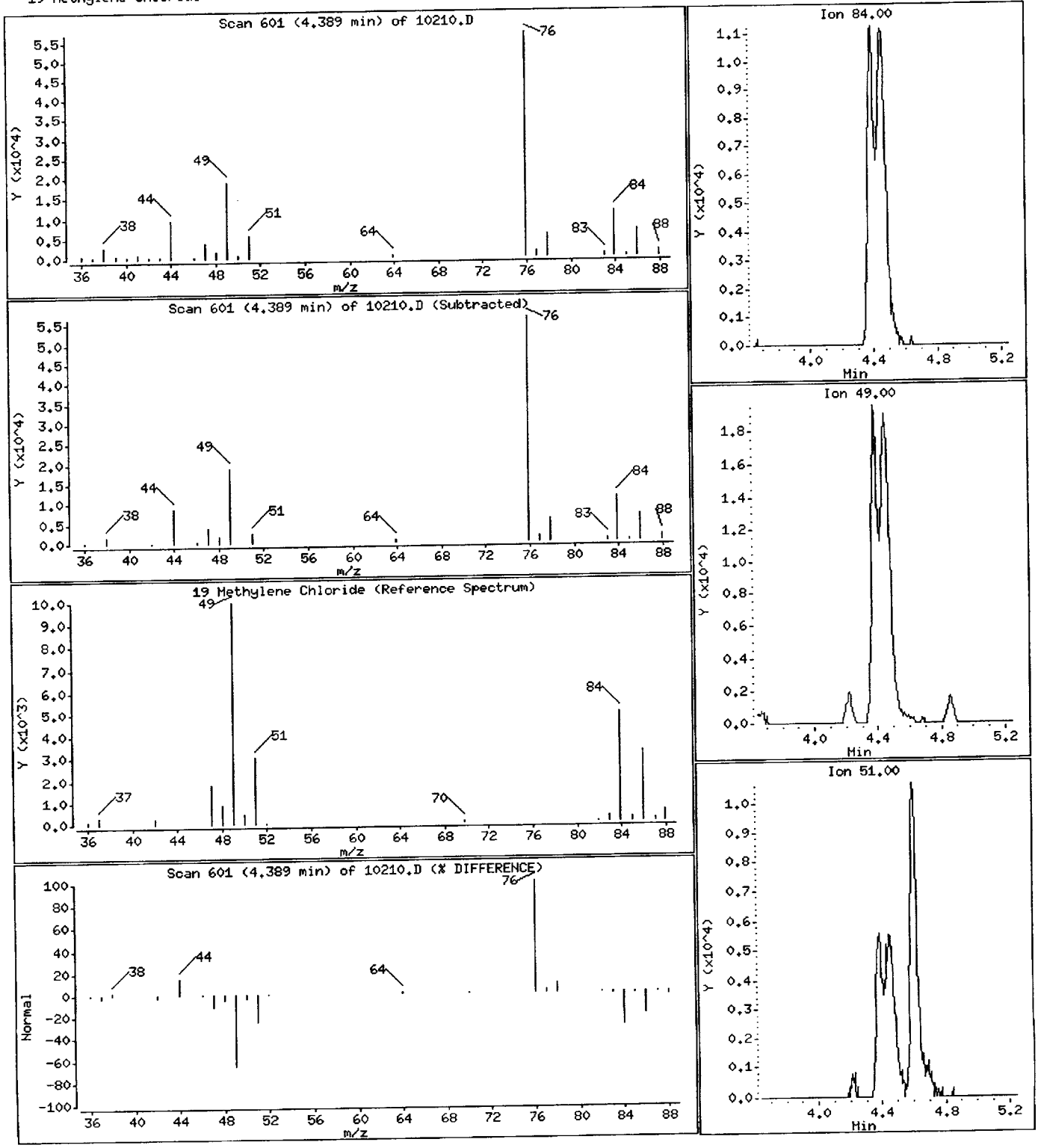
Operator:

Column phase: DB-624

Column diameter: 0.18

19 Methylene Chloride

Concentration: 19.9 ug/l



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Date : 25-SEP-2002 07:37

Client ID: 11Q30228MS

Instrument: vms03.i

Sample Info: 220910210;2209102;1;

Purge Volume: 5.0

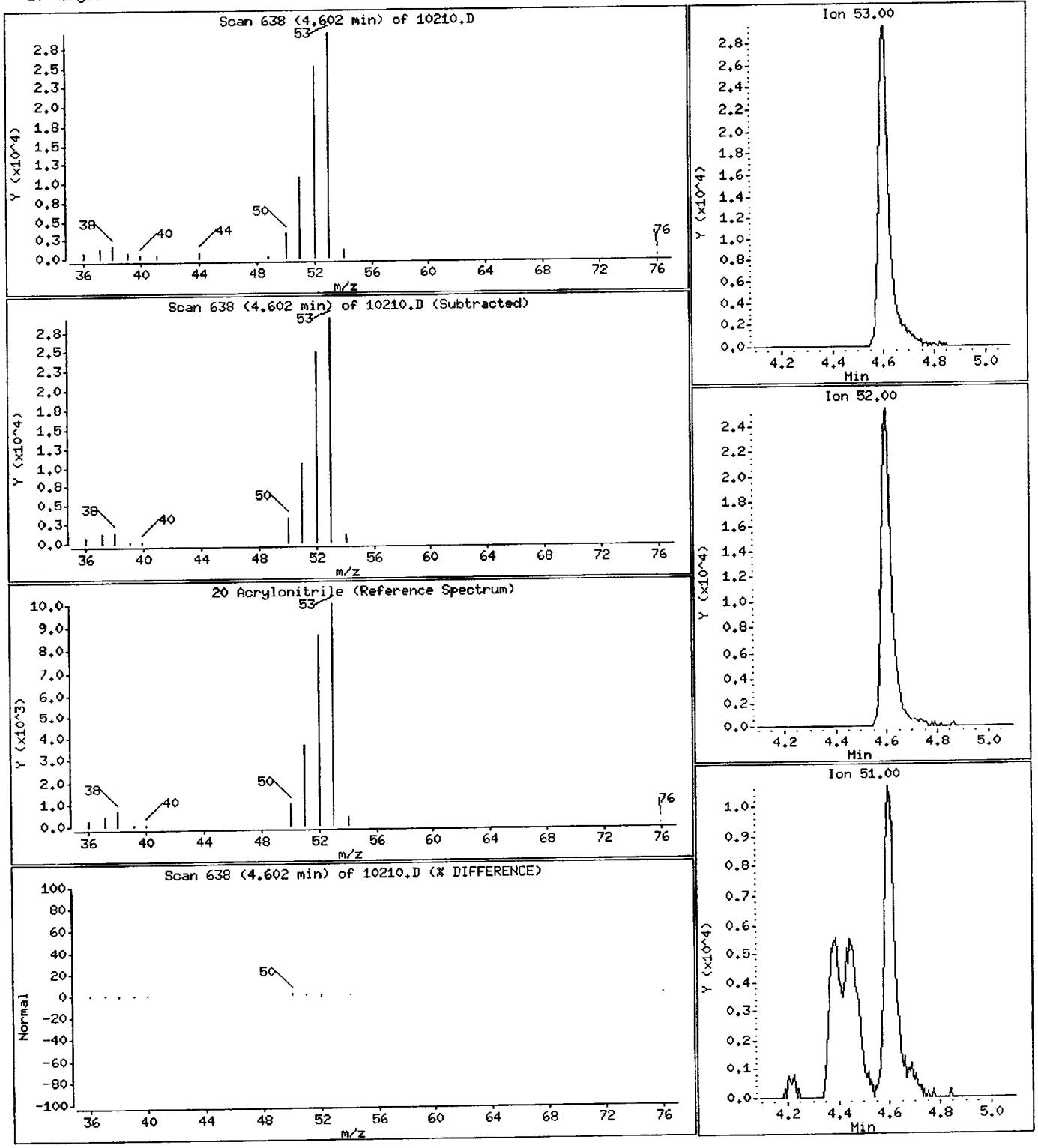
Operator:

Column phase: DB-624

Column diameter: 0.18

20 Acrylonitrile

Concentration: 64.9 ug/l



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Date : 25-SEP-2002 07:37

Client ID: 11Q30228MS

Instrument: vms03.i

Sample Info: 220910210;2209102;1;

Purge Volume: 5.0

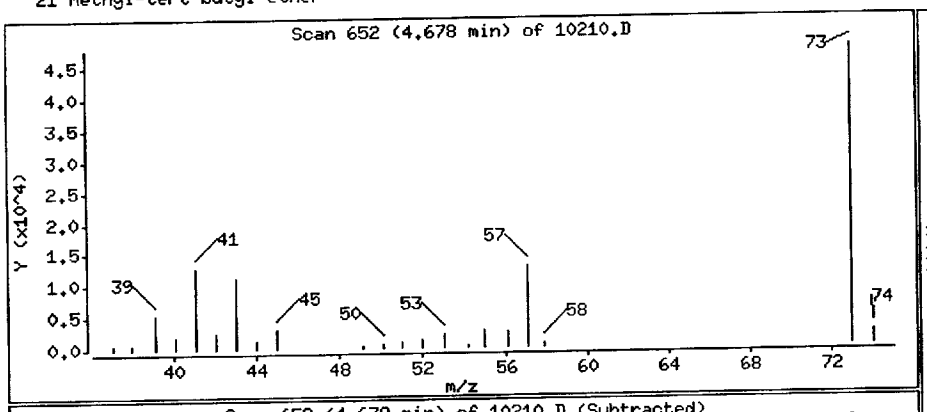
Operator:

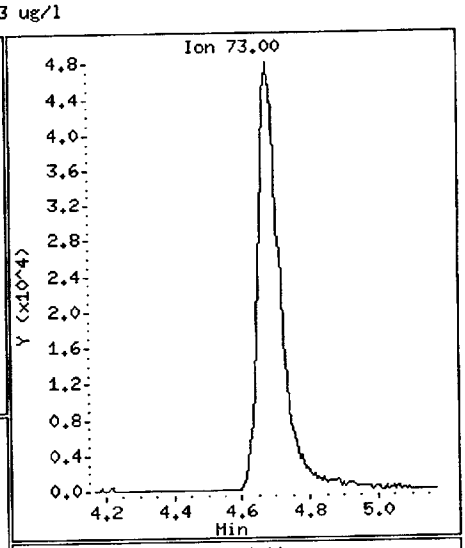
Column phase: DB-624

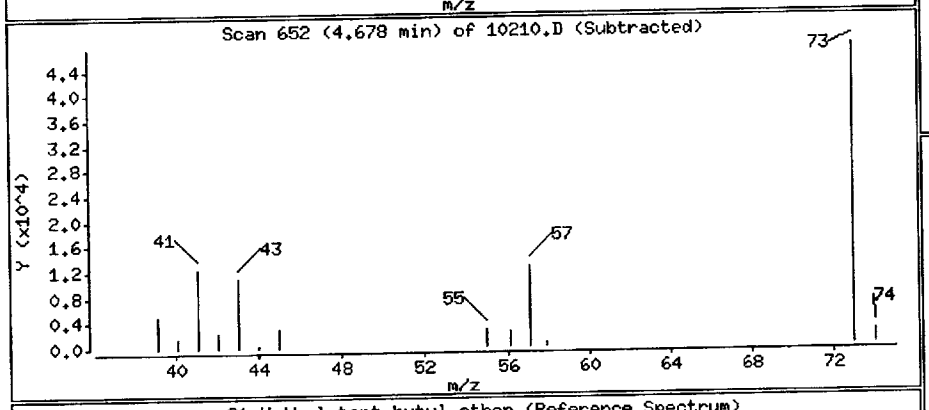
Column diameter: 0.18

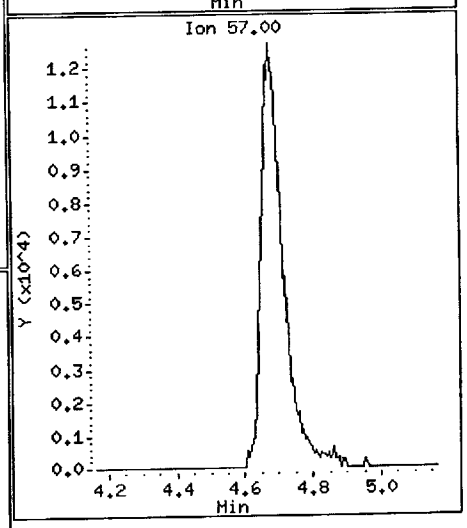
21 Methyl-tert-butyl ether

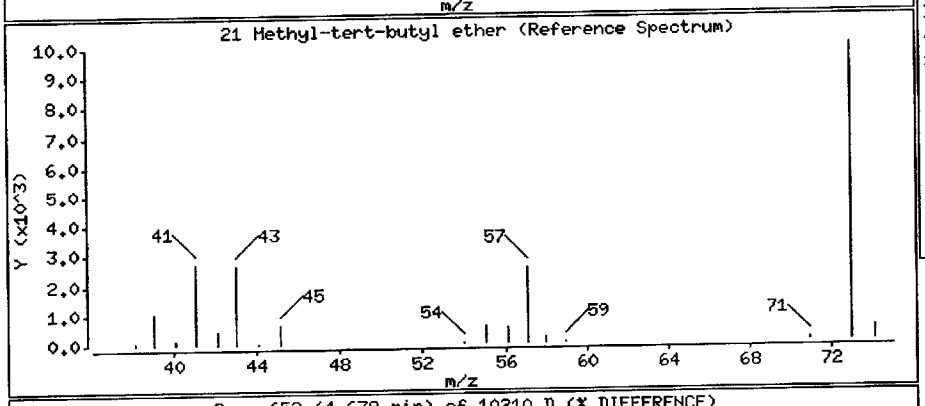
Concentration: 20.3 ug/l

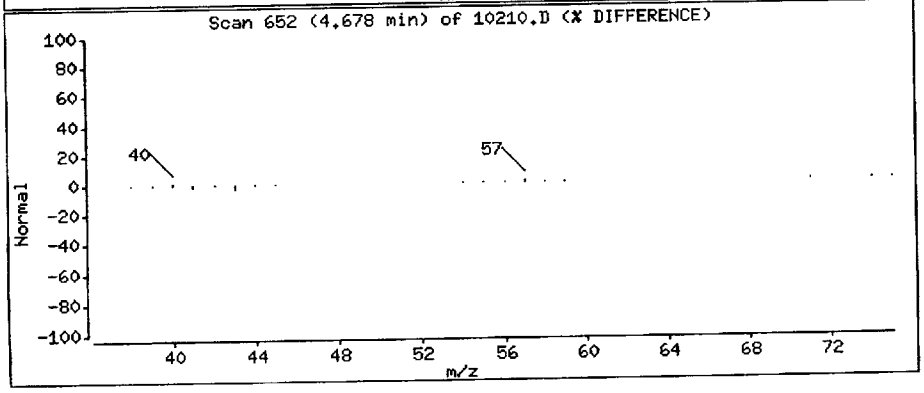












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Date : 25-SEP-2002 07:37

Client ID: 11Q30228MS

Instrument: vms03.i

Sample Info: 220910210;2209102;1;

Purge Volume: 5.0

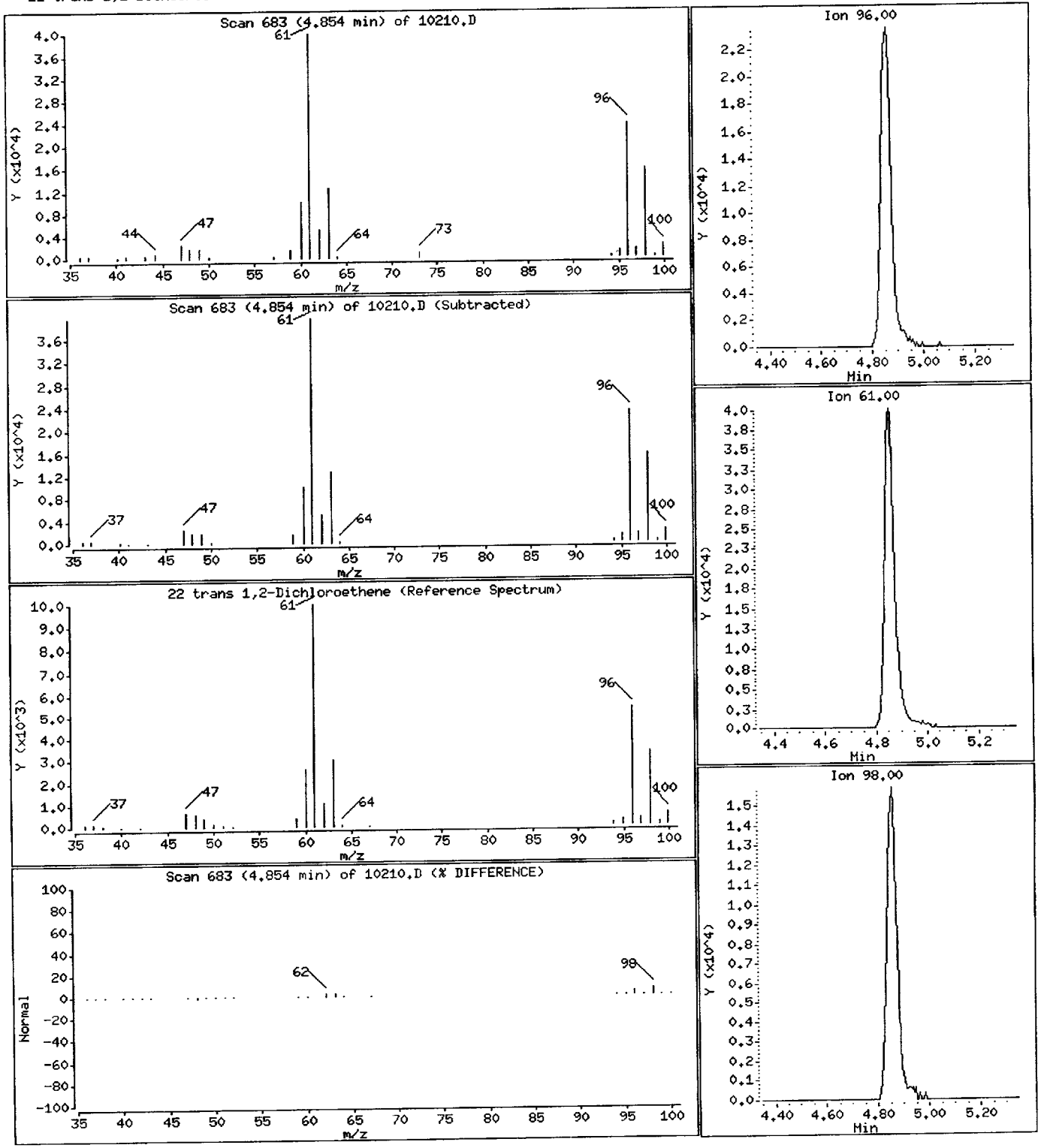
Operator:

Column phase: DB-624

Column diameter: 0.18

22 trans 1,2-Dichloroethene

Concentration: 21.8 ug/l



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Date : 25-SEP-2002 07:37

Client ID: 11Q30228MS

Instrument: vms03.i

Sample Info: 220910210;2209102;1;

Purge Volume: 5.0

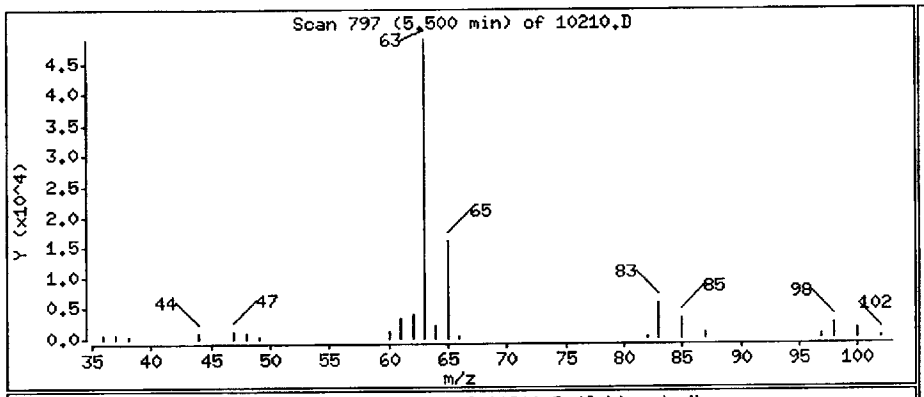
Operator:

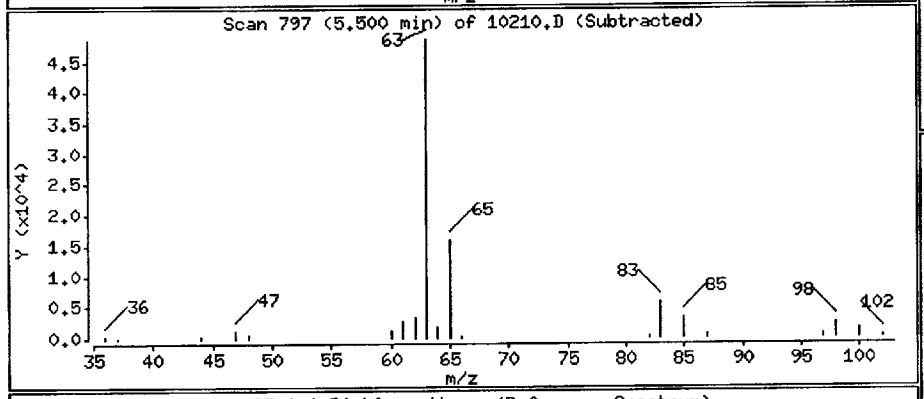
Column phase: DB-624

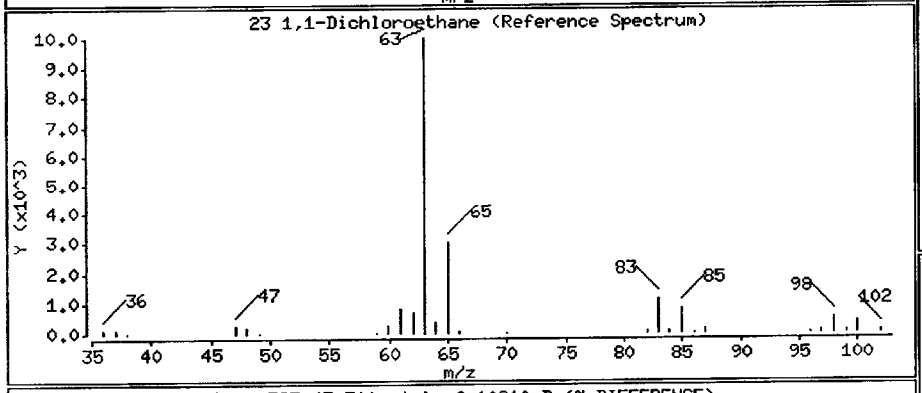
Column diameter: 0.18

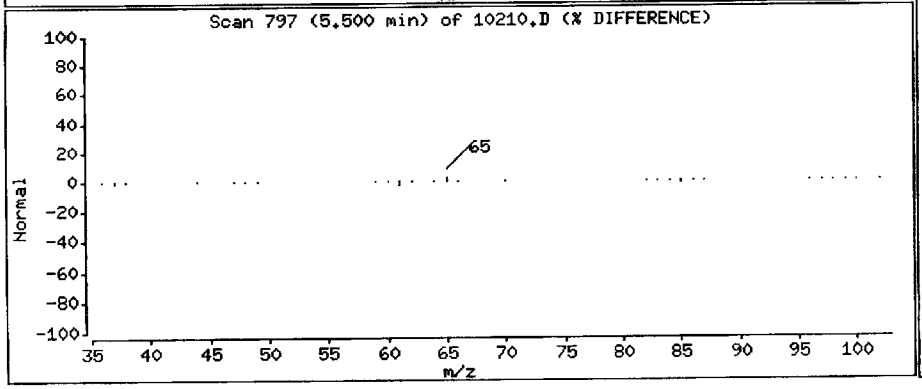
23 1,1-Dichloroethane

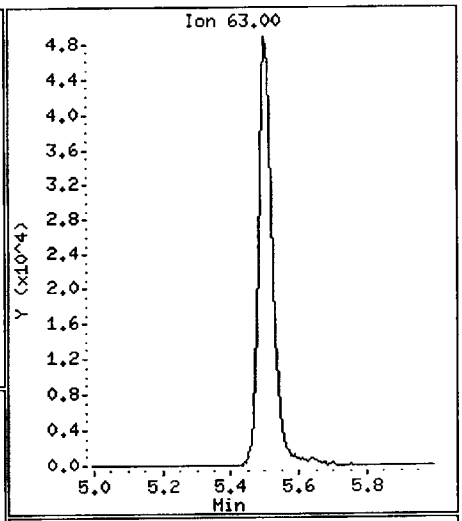
Concentration: 21.6 ug/l

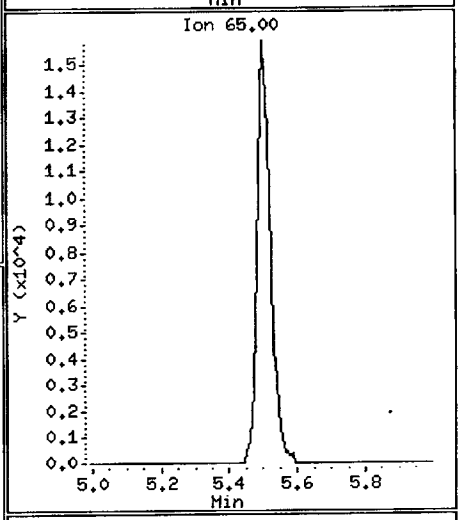


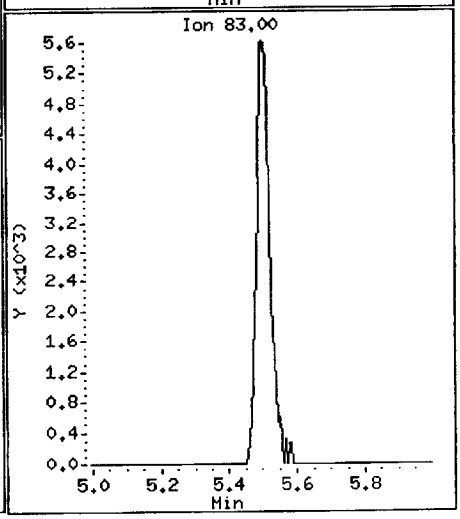












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10210.D

Date : 25-SEP-2002 07:37

Client ID: 11Q30228MS

Instrument: vms03.i

Sample Info: 220910210;2209102;1;

Purge Volume: 5.0

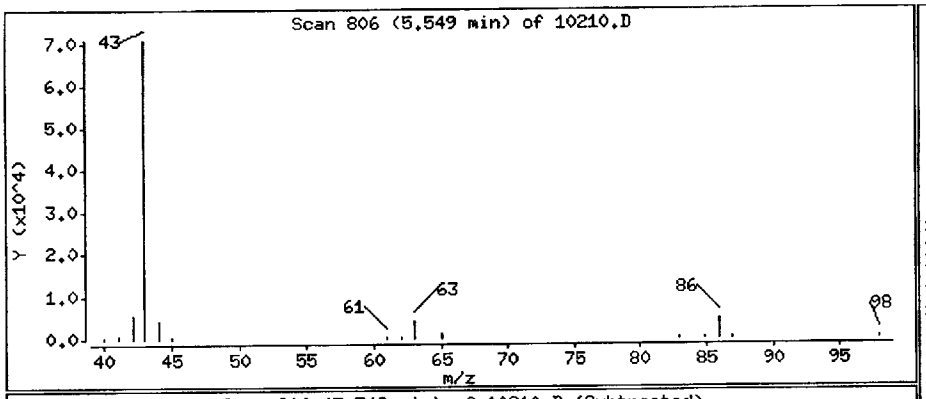
Operator:

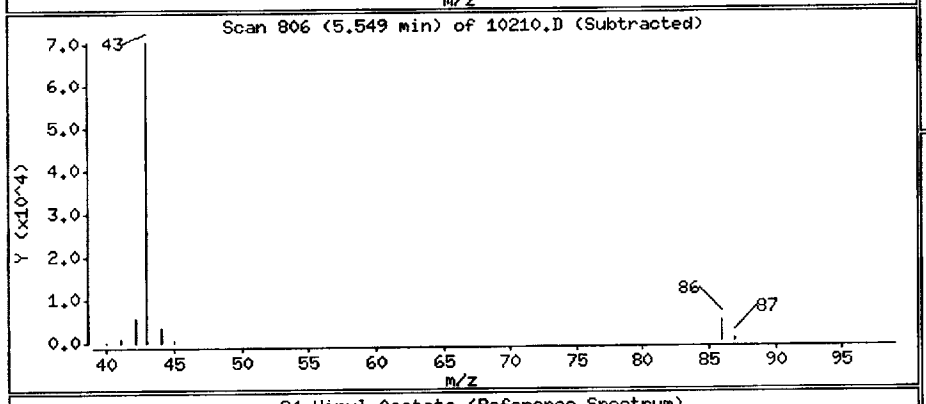
Column phase: DB-624

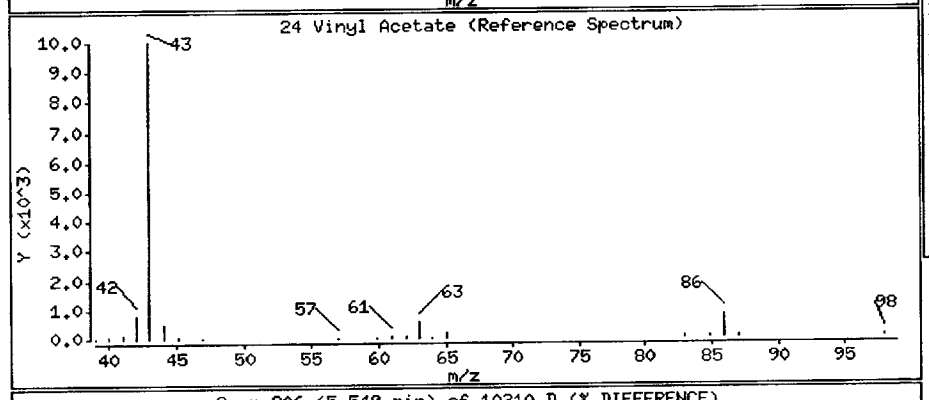
Column diameter: 0.18

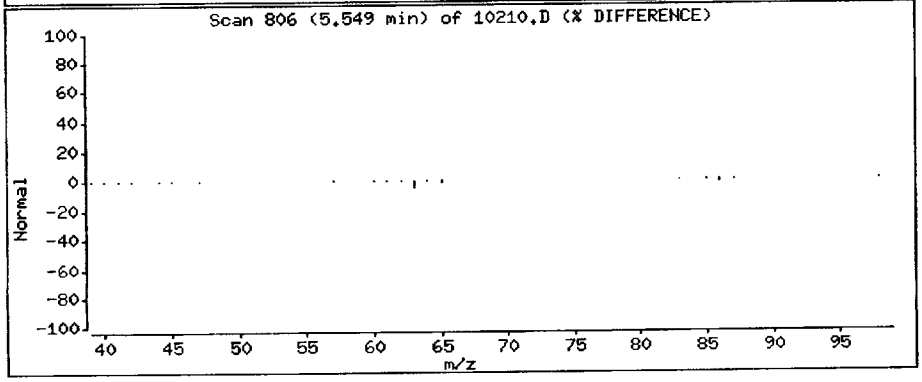
24 Vinyl Acetate

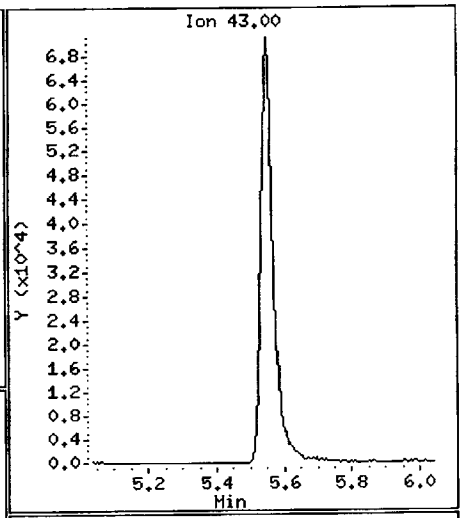
Concentration: 19.6 ug/l

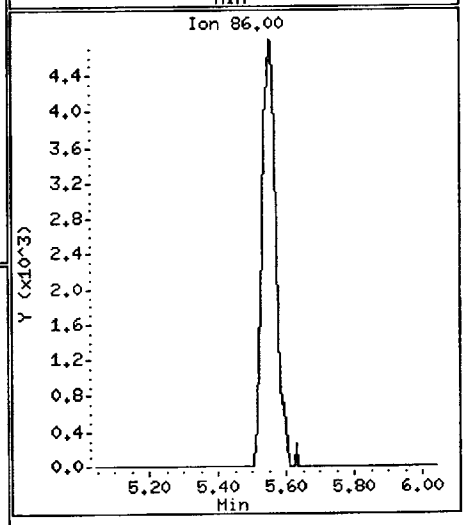












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10210.D

Date : 25-SEP-2002 07:37

Client ID: 11Q30228MS

Instrument: vms03.i

Sample Info: 220910210;2209102;1;

Purge Volume: 5.0

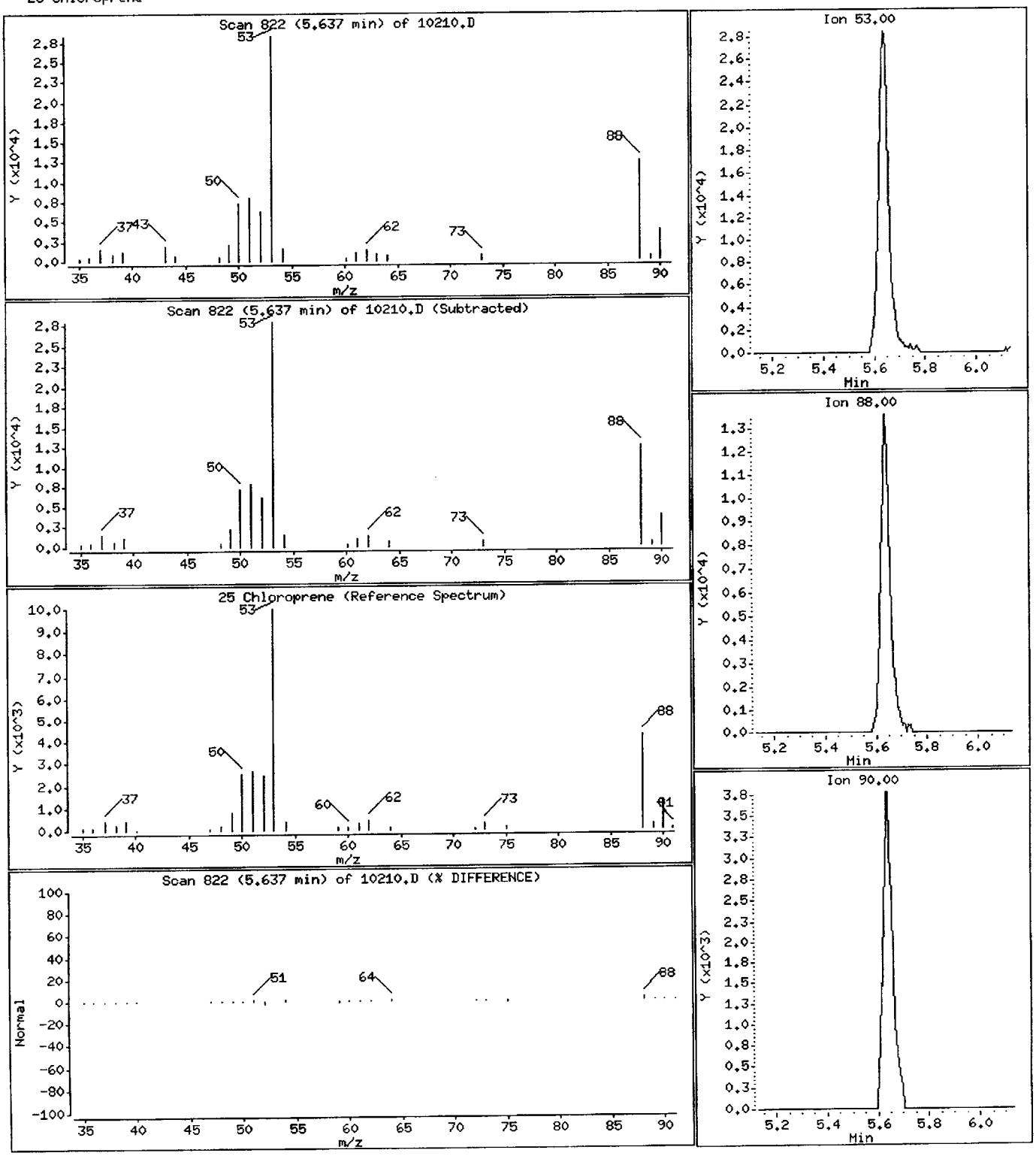
Operator:

Column phase: DB-624

Column diameter: 0.18

25 Chloroprene

Concentration: 22.2 ug/l



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Date : 25-SEP-2002 07:37

Client ID: 11Q30228MS

Instrument: vms03.i

Sample Info: 220910210;2209102;1;

Purge Volume: 5.0

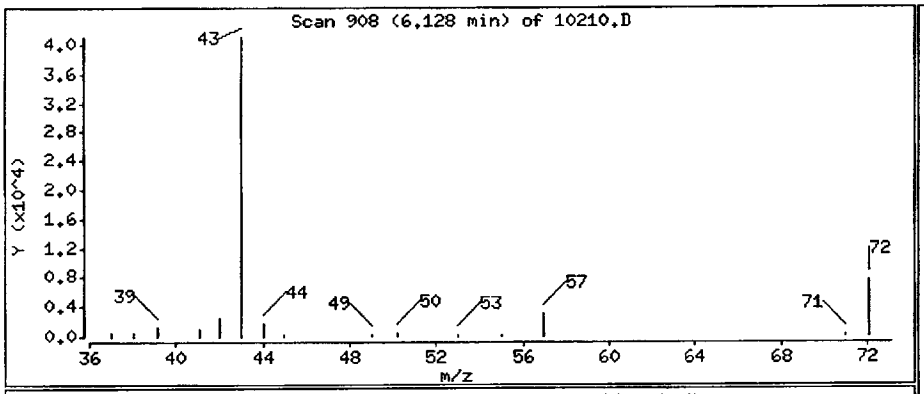
Operator:

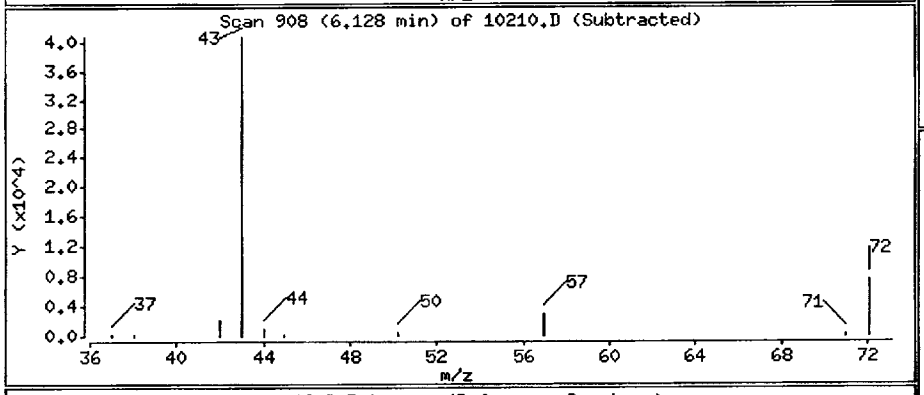
Column phase: DB-624

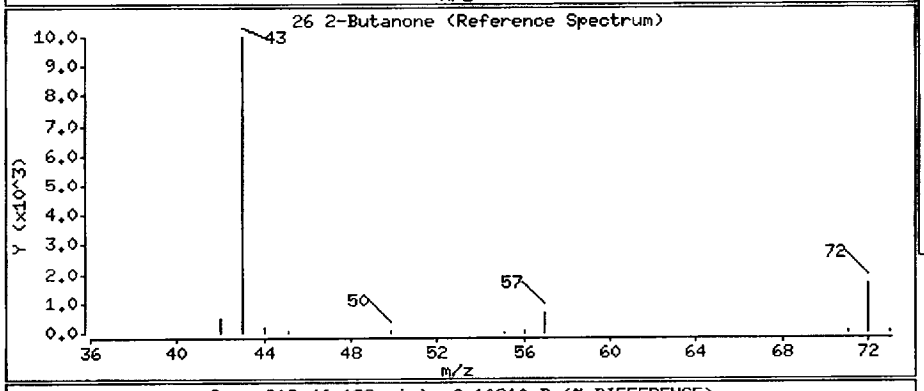
Column diameter: 0.18

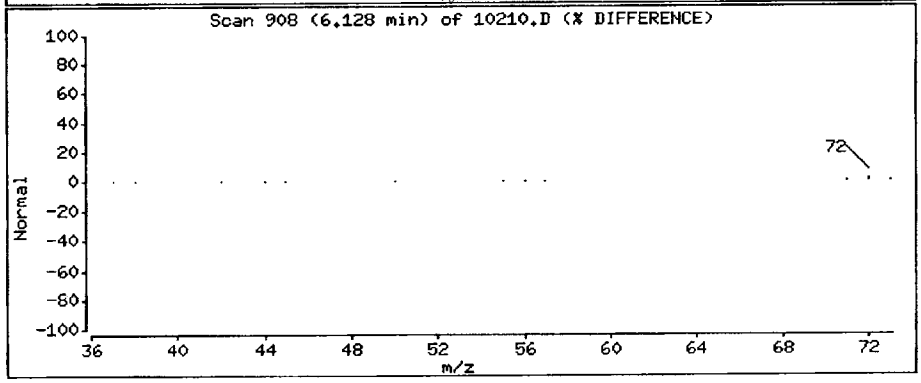
26 2-Butanone

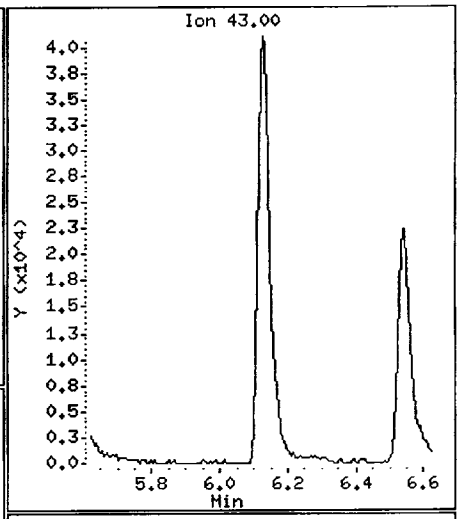
Concentration: 60.6 ug/l

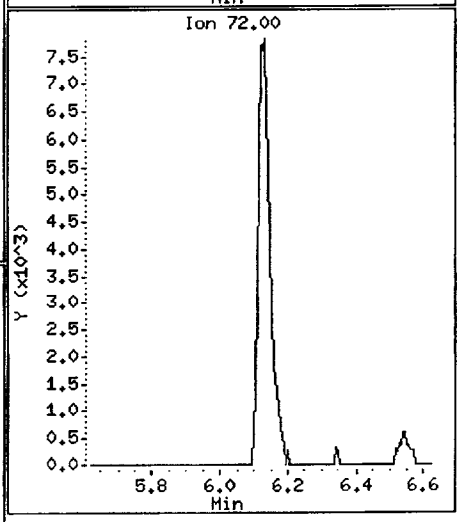












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Date : 25-SEP-2002 07:37

Client ID: 11Q30228MS

Instrument: vms03.i

Sample Info: 220910210;2209102;1;

Purge Volume: 5.0

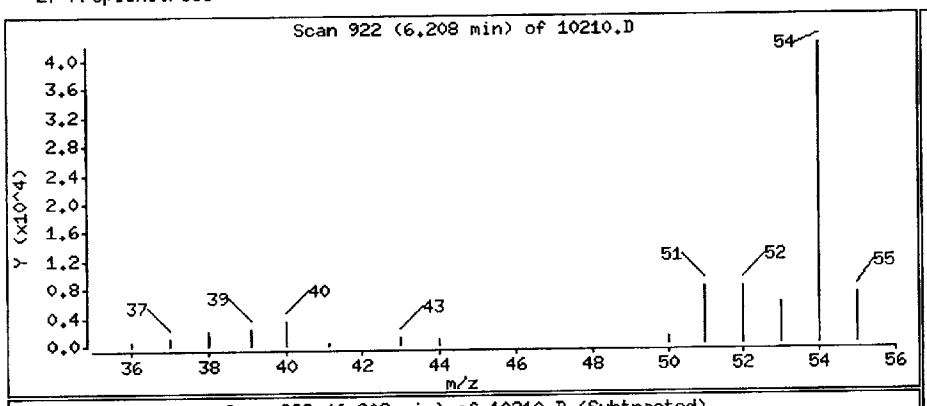
Operator:

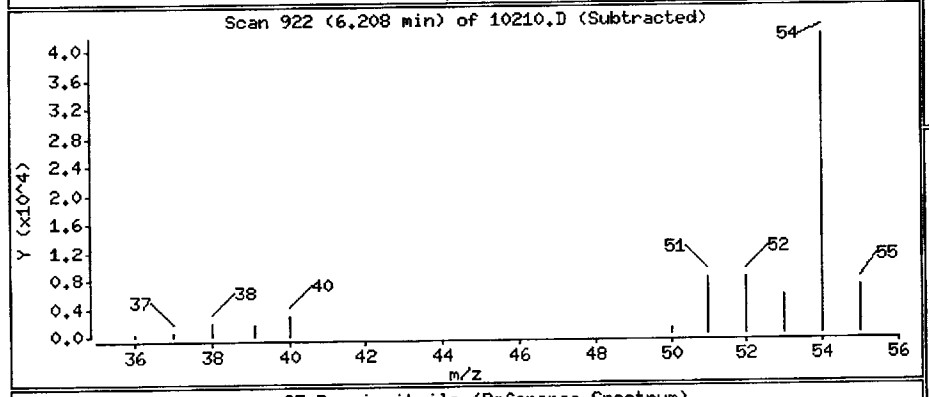
Column phase: DB-624

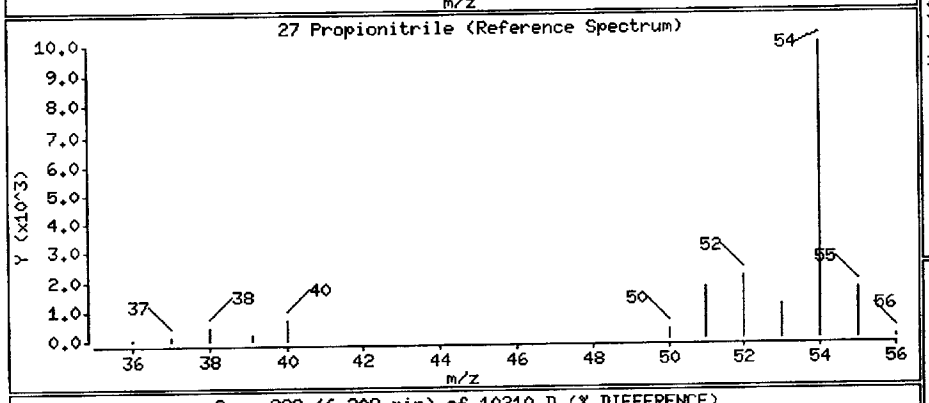
Column diameter: 0.18

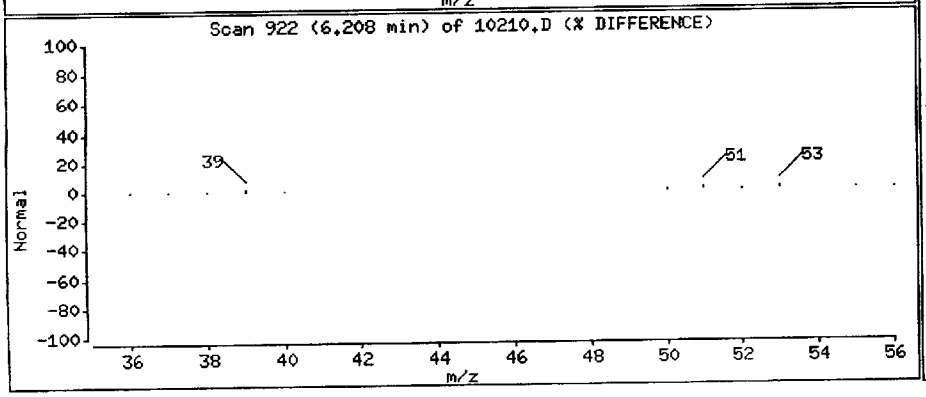
27 Propionitrile

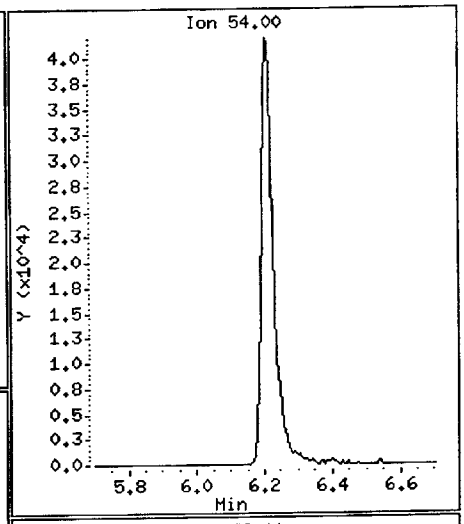
Concentration: 210 ug/l

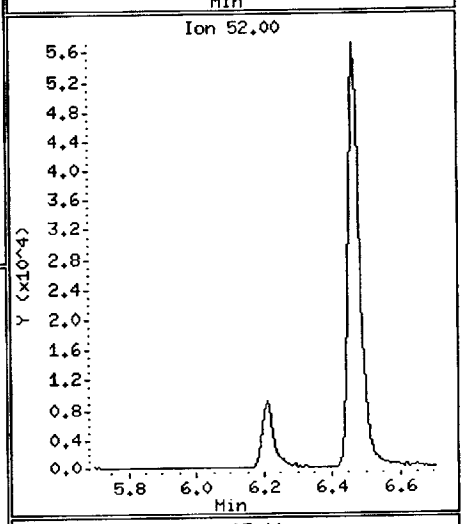


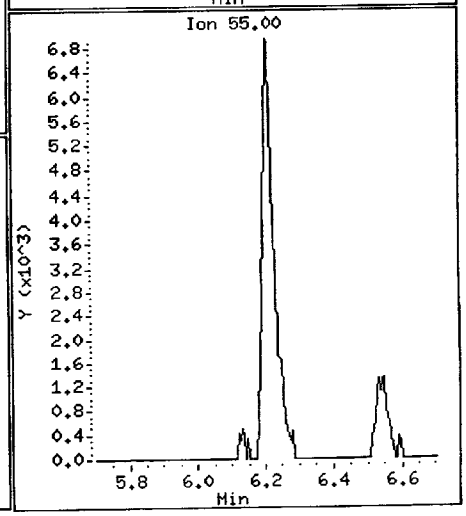












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10210.D

Date : 25-SEP-2002 07:37

Client ID: 11Q30228MS

Instrument: vms03.i

Sample Info: 220910210;2209102;1;

Purge Volume: 5.0

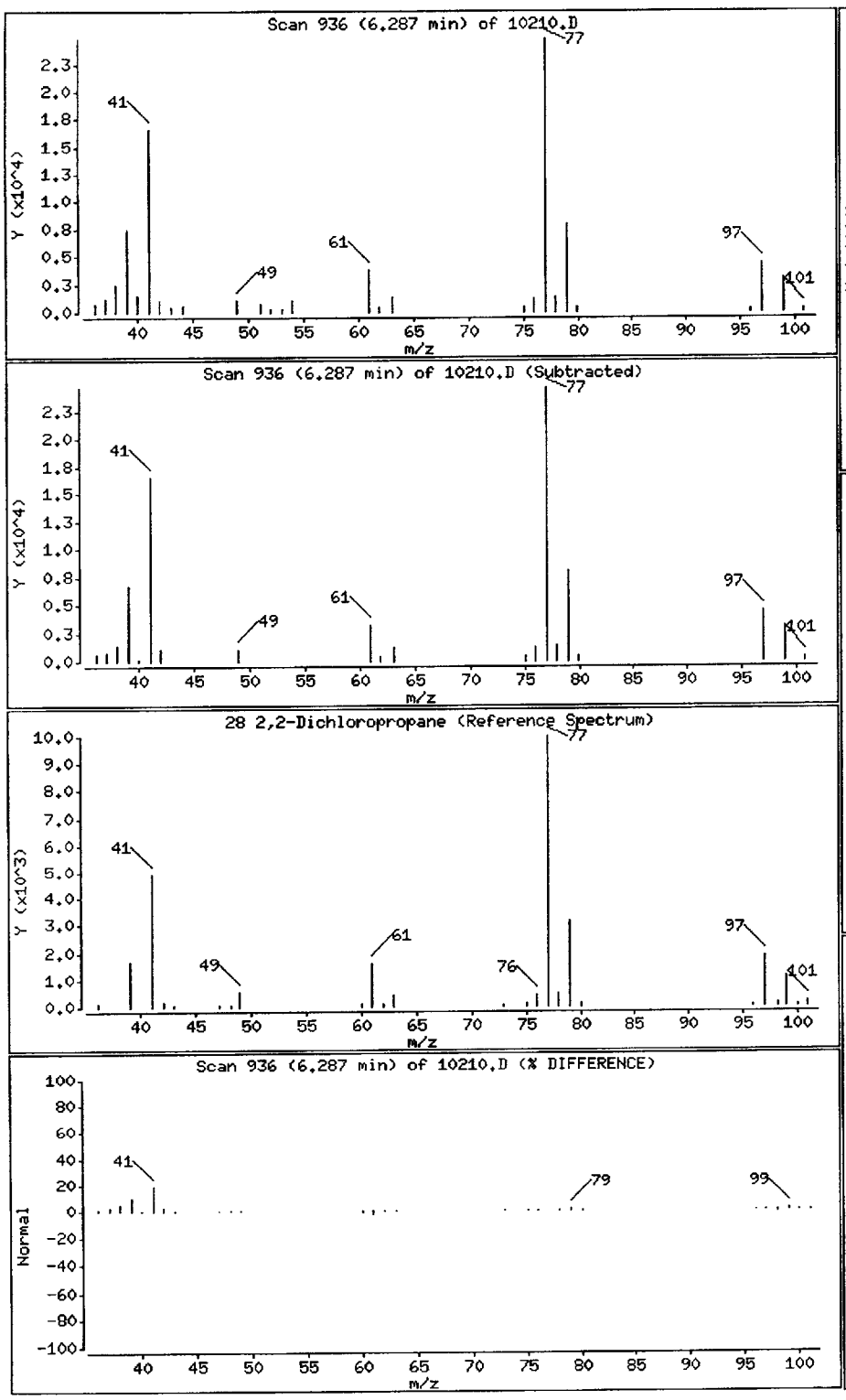
Operator:

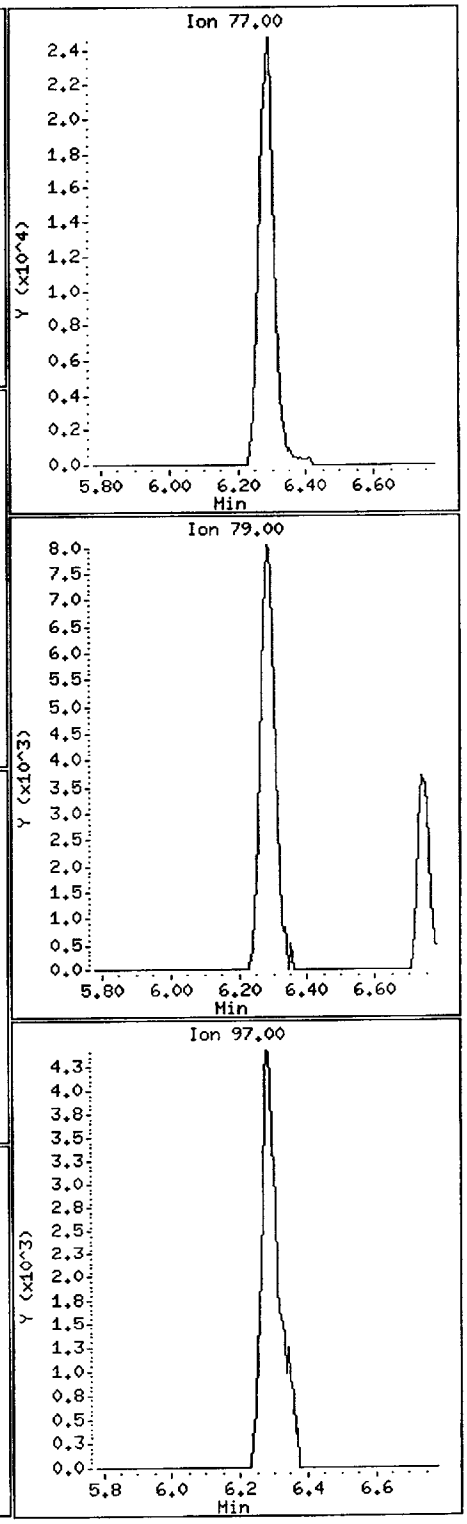
Column phase: DB-624

Column diameter: 0.18

28 2,2-Dichloropropane

Concentration: 22.2 ug/l





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Date : 25-SEP-2002 07:37

Client ID: 11Q30228MS

Instrument: vms03.i

Sample Info: 220910210;2209102;1;

Purge Volume: 5.0

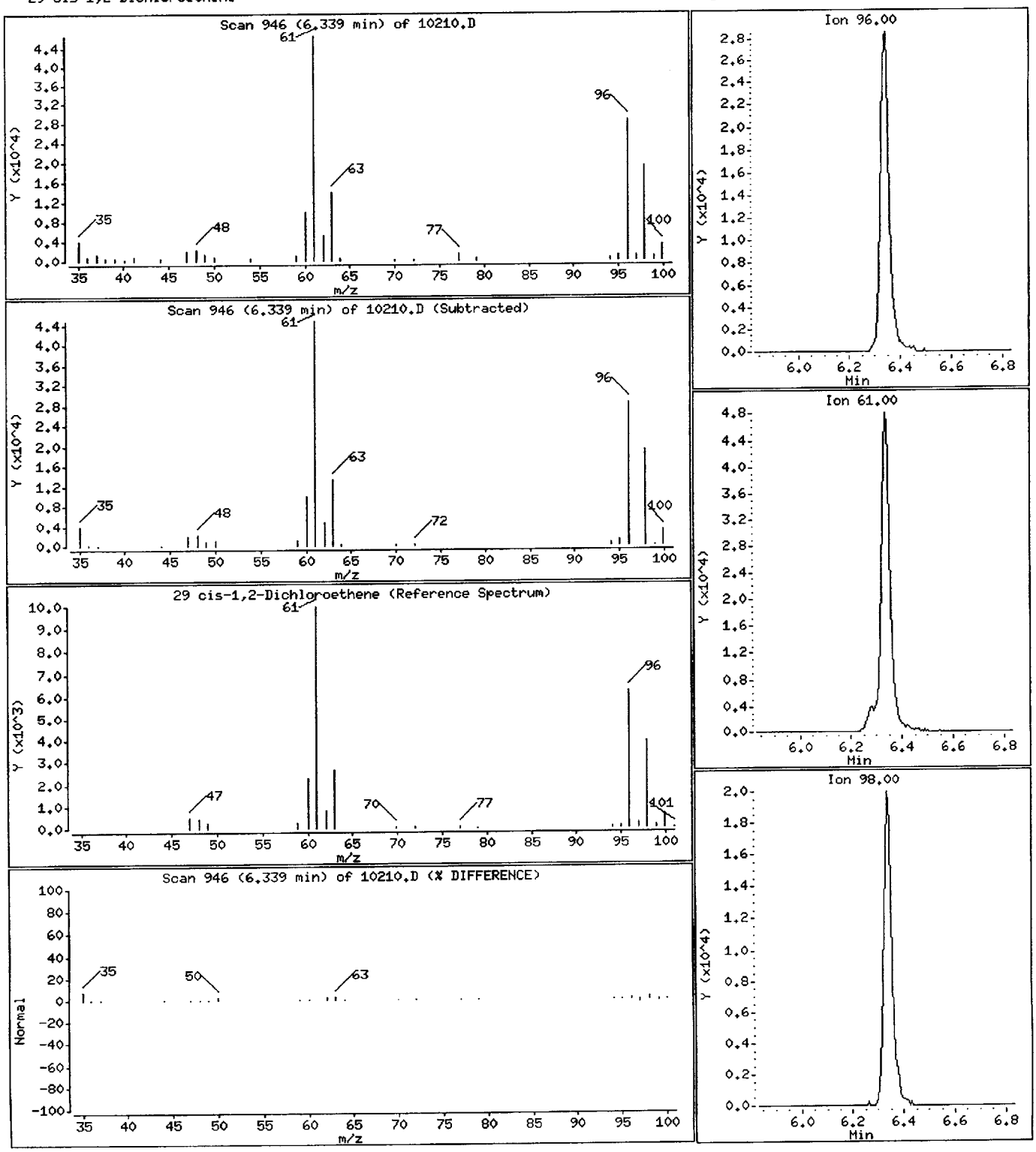
Operator:

Column phase: DB-624

Column diameter: 0.18

29 cis-1,2-Dichloroethene

Concentration: 21.5 ug/l



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Date : 25-SEP-2002 07:37

Client ID: 11Q30228HS

Instrument: vms03.i

Sample Info: 220910210;2209102;1;

Purge Volume: 5.0

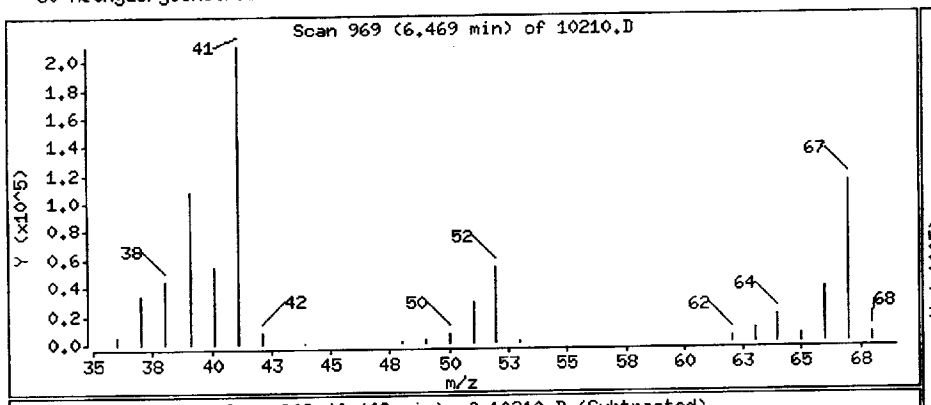
Operator:

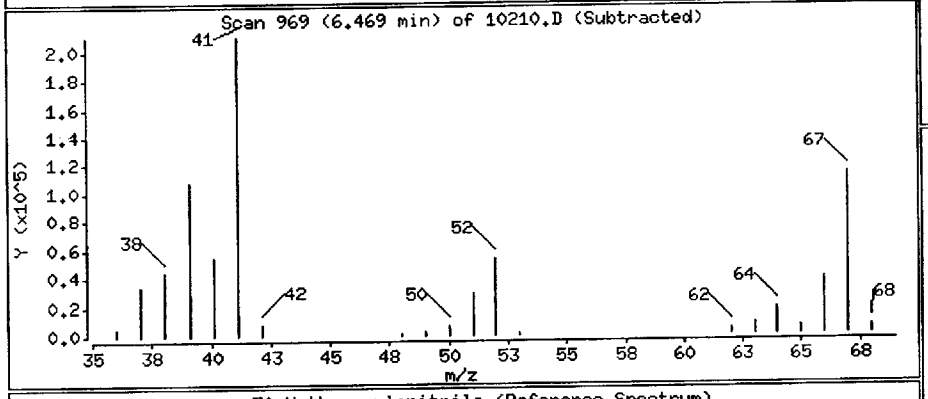
Column phase: DB-624

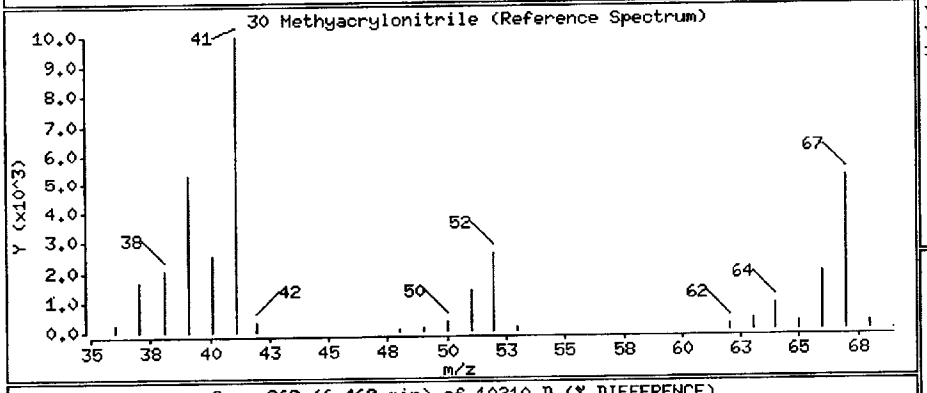
Column diameter: 0.18

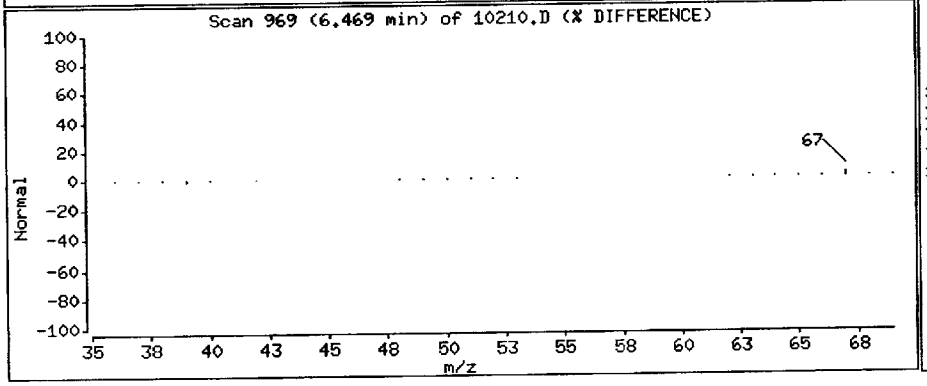
30 Methyacrylonitrile

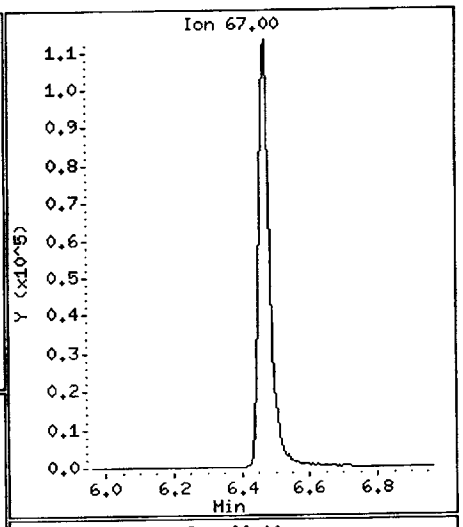
Concentration: 213 ug/l

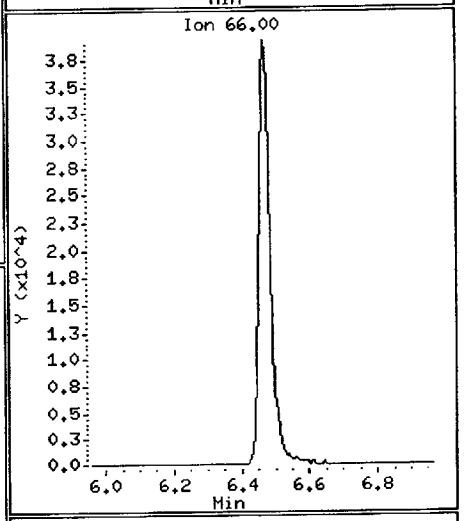


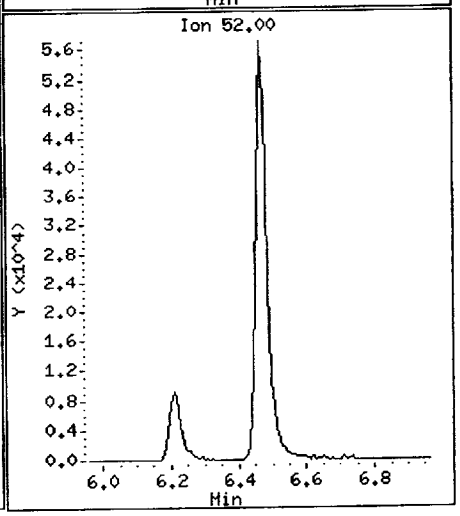












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10210.D

Date : 25-SEP-2002 07:37

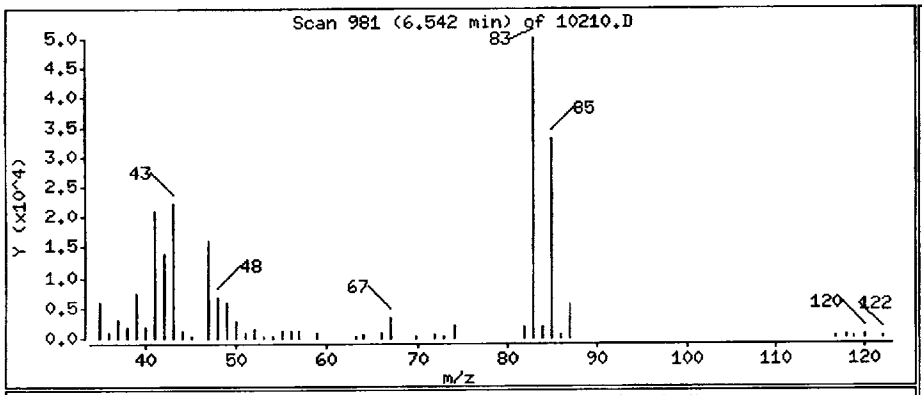
Client ID: 11Q30228MS | Instrument: vms03.i

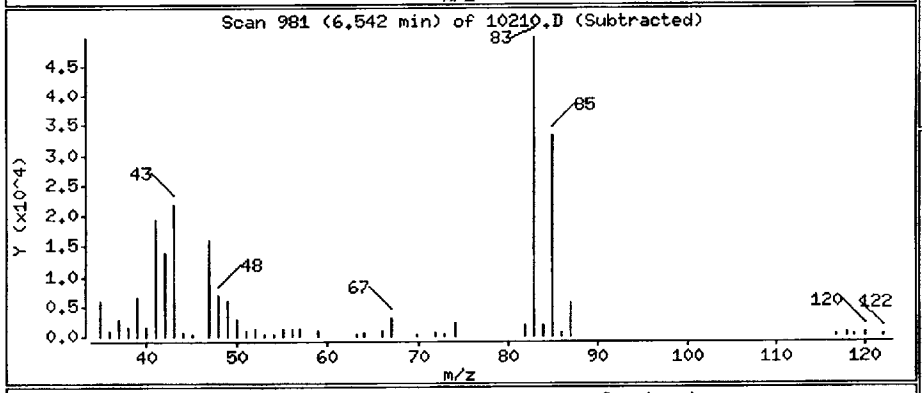
Sample Info: 220910210;2209102;1;

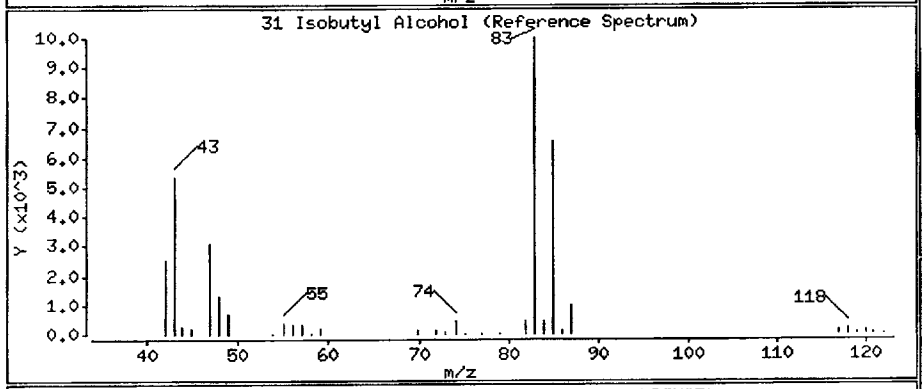
Purge Volume: 5.0 | Operator:

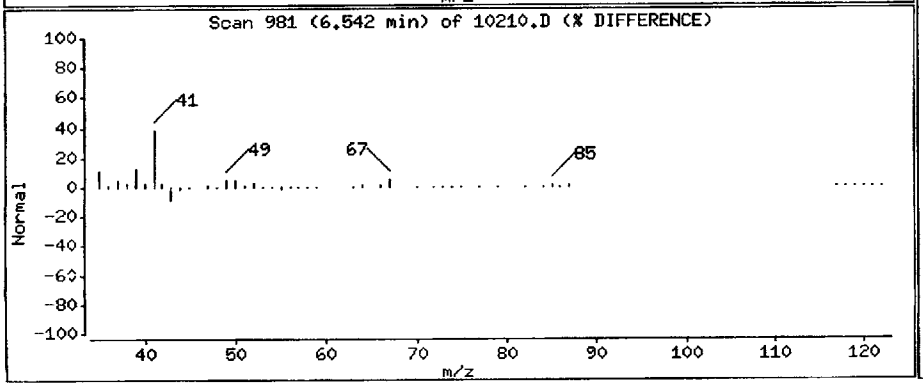
Column phase: DB-624 | Column diameter: 0.18

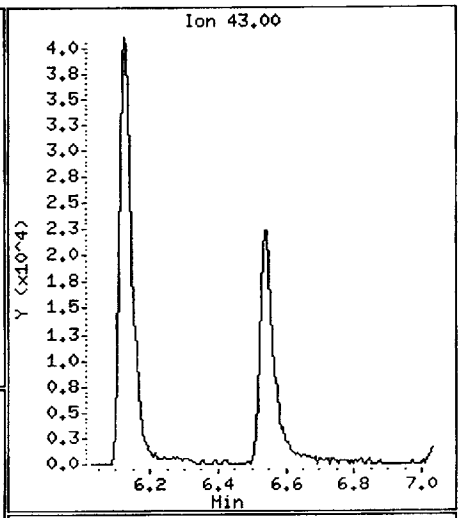
31 Isobutyl Alcohol | Concentration: 404 ug/l

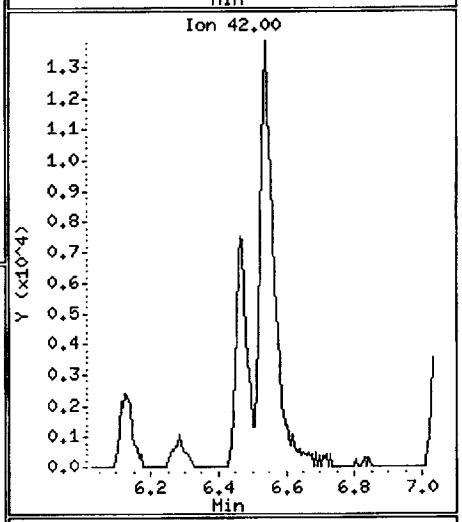


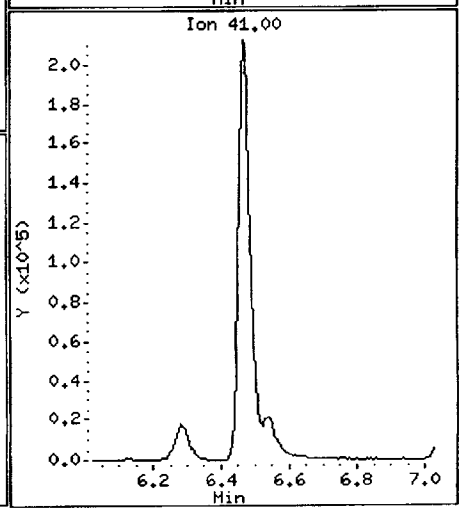












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Date : 25-SEP-2002 07:37

Client ID: 11Q30228MS

Instrument: vms03.i

Sample Info: 220910210;2209102;1;

Purge Volume: 5.0

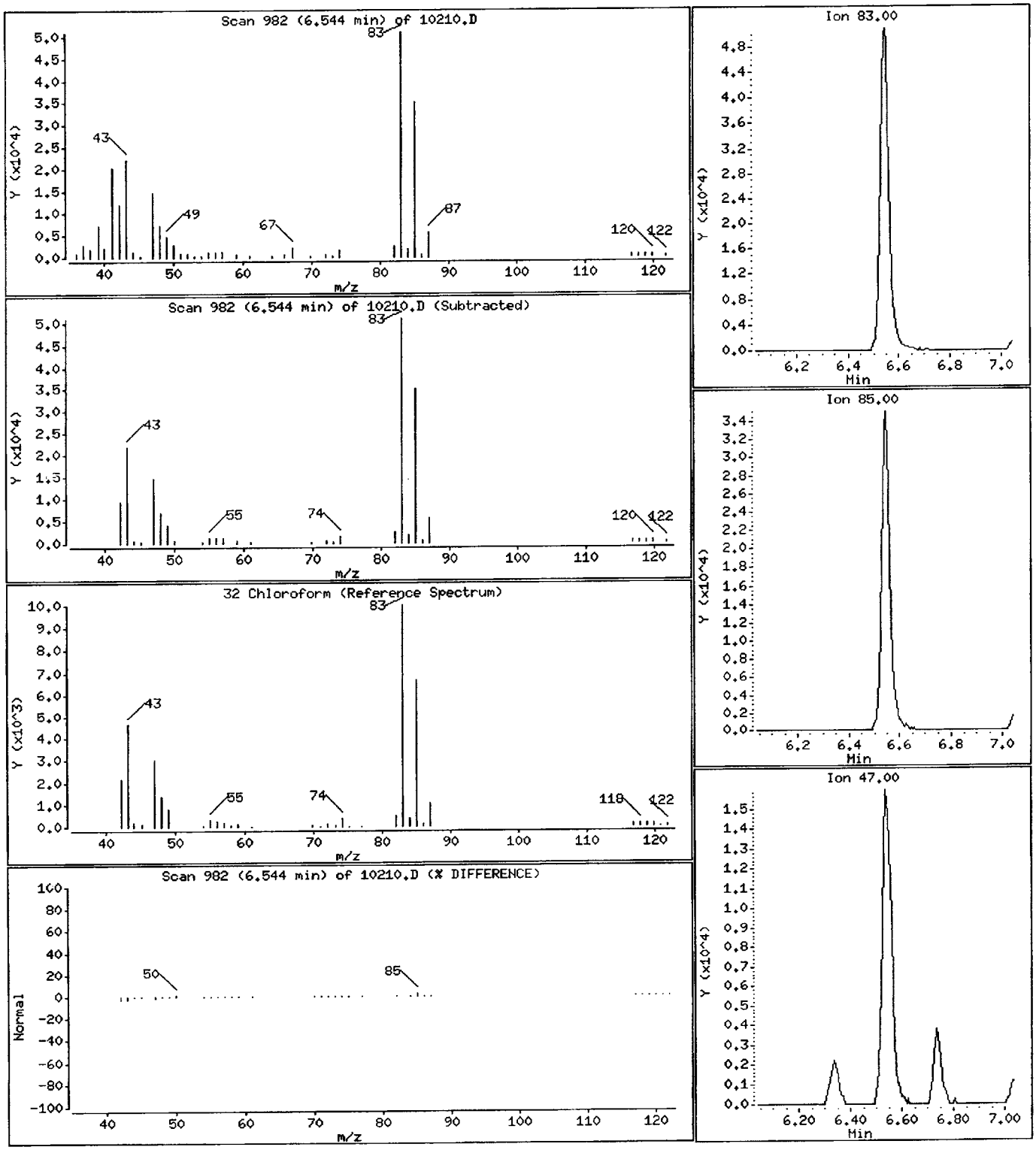
Operator:

Column phase: DB-624

Column diameter: 0.18

32 Chloroform

Concentration: 21.3 ug/l



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Date : 25-SEP-2002 07:37

Client ID: 11Q30228MS

Instrument: vms03.i

Sample Info: 220910210;2209102;1;

Purge Volume: 5.0

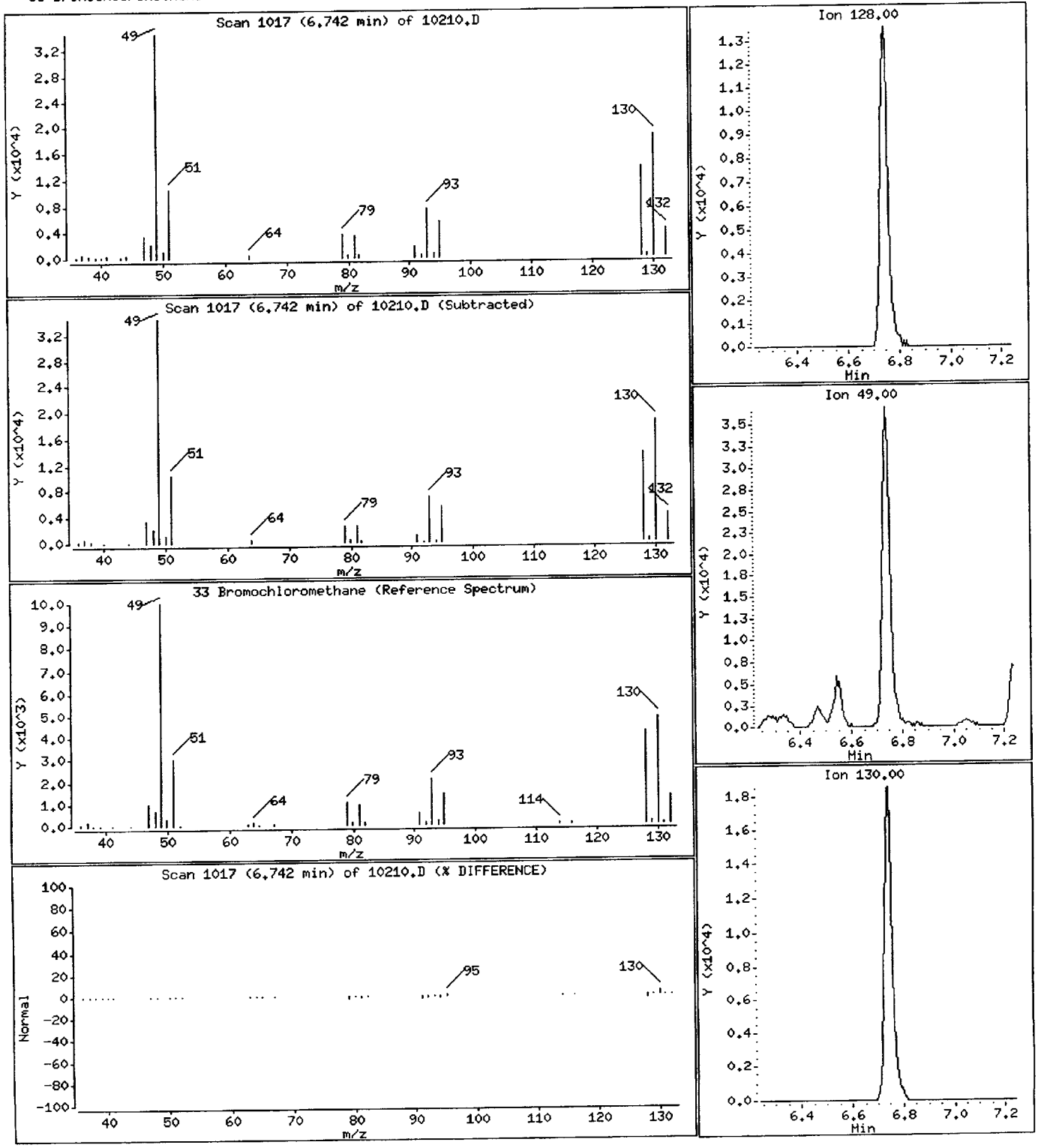
Operator:

Column phase: DB-624

Column diameter: 0.18

33 Bromochloromethane

Concentration: 21.9 ug/l



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Date : 25-SEP-2002 07:37

Client ID: 11Q30228MS

Instrument: vms03.i

Sample Info: 220910210;2209102;1;

Purge Volume: 5.0

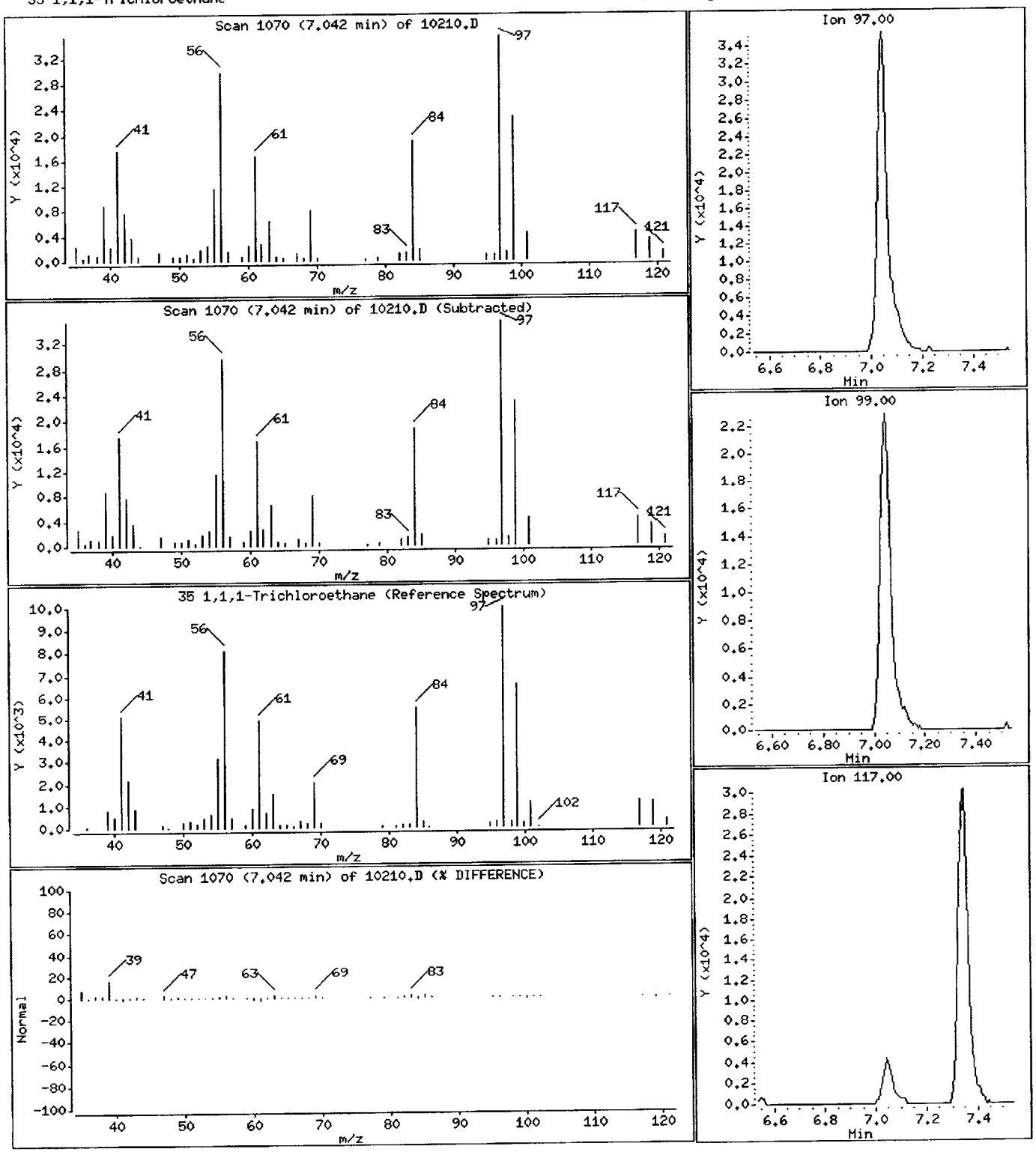
Operator:

Column phase: DB-624

Column diameter: 0.18

35 1,1,1-Trichloroethane

Concentration: 22.0 ug/l



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Date : 25-SEP-2002 07:37

Client ID: 11Q30228MS

Instrument: vms03.i

Sample Info: 220910210;2209102;1;

Purge Volume: 5.0

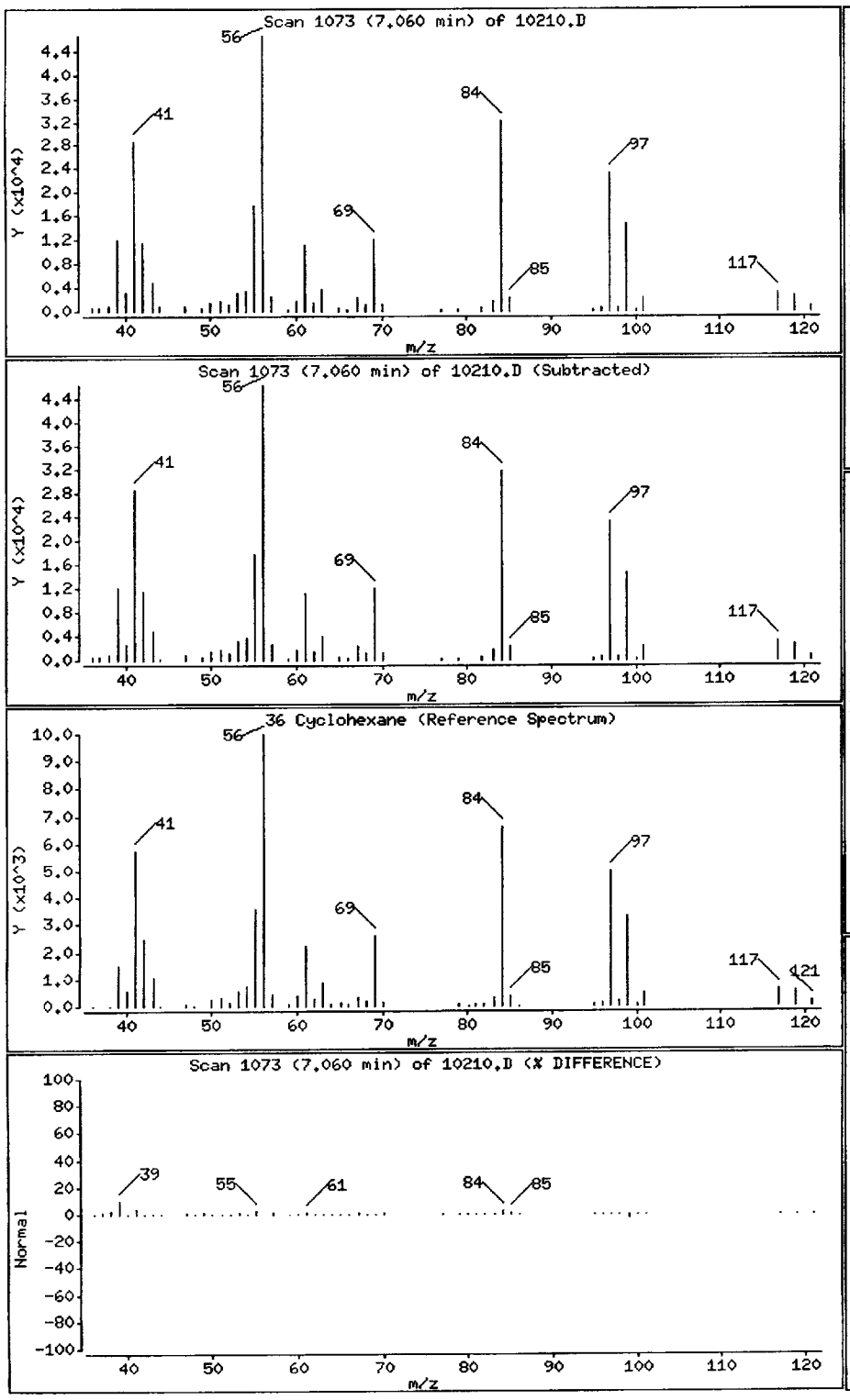
Operator:

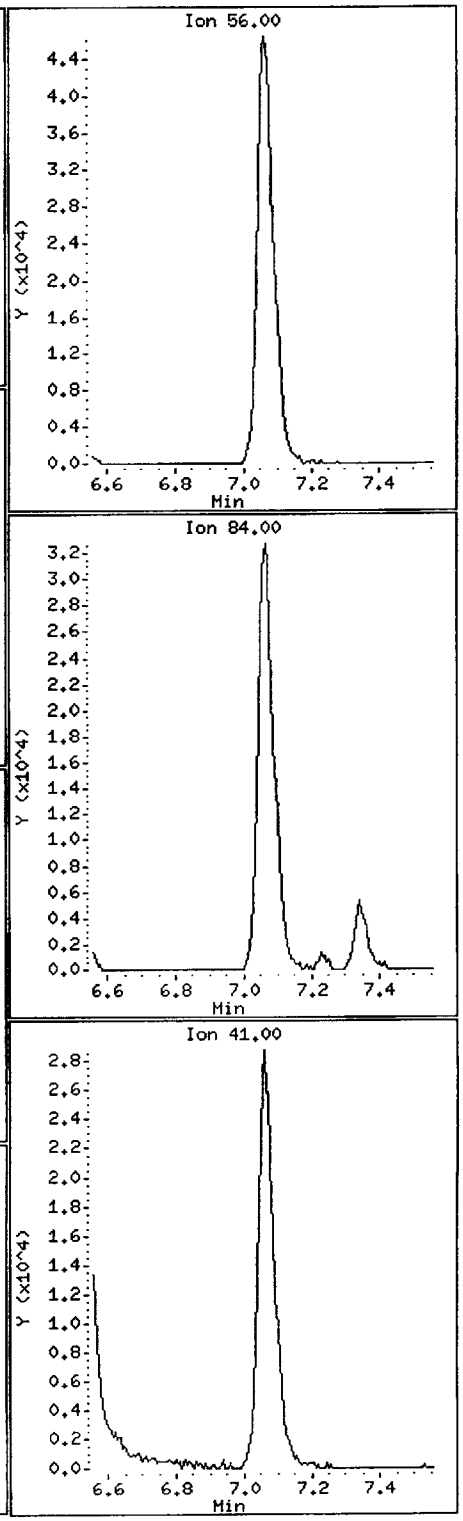
Column phase: DB-624

Column diameter: 0.18

36 Cyclohexane

Concentration: 21.6 ug/l





Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10210.D

Date : 25-SEP-2002 07:37

Client ID: 11Q30228HS

Instrument: vms03.i

Sample Info: 220910210;2209102;1;

Purge Volume: 5.0

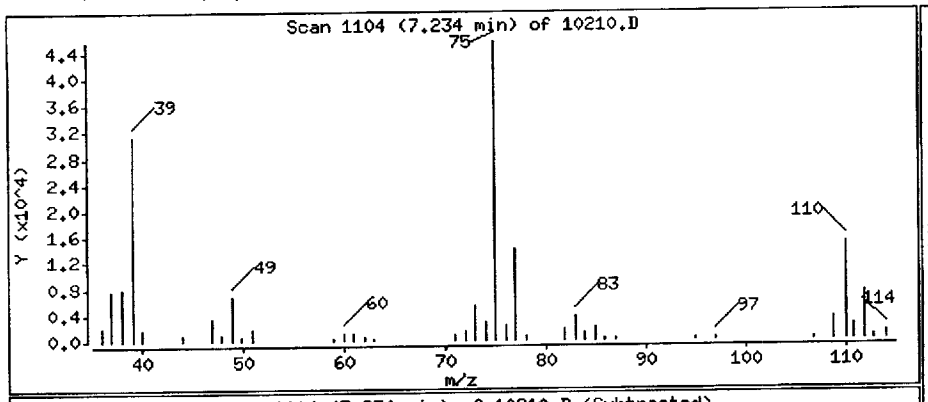
Operator:

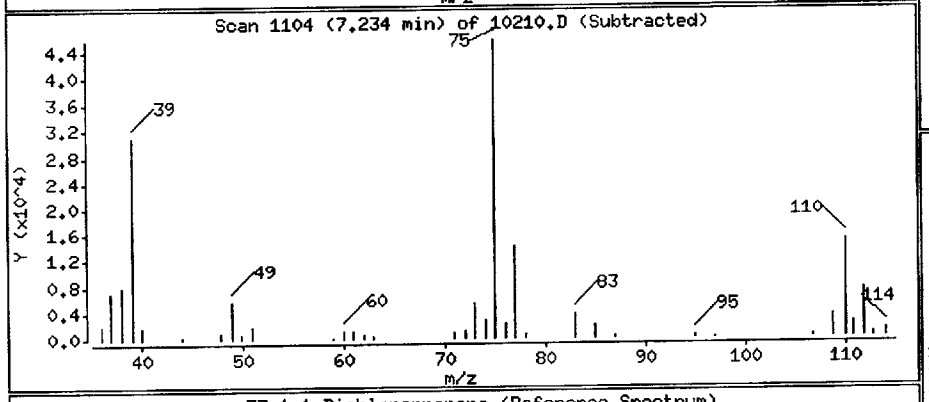
Column phase: DB-624

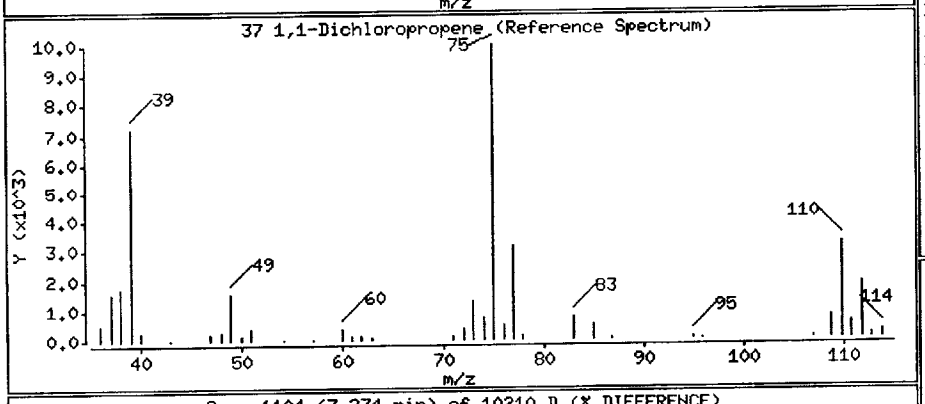
Column diameter: 0.18

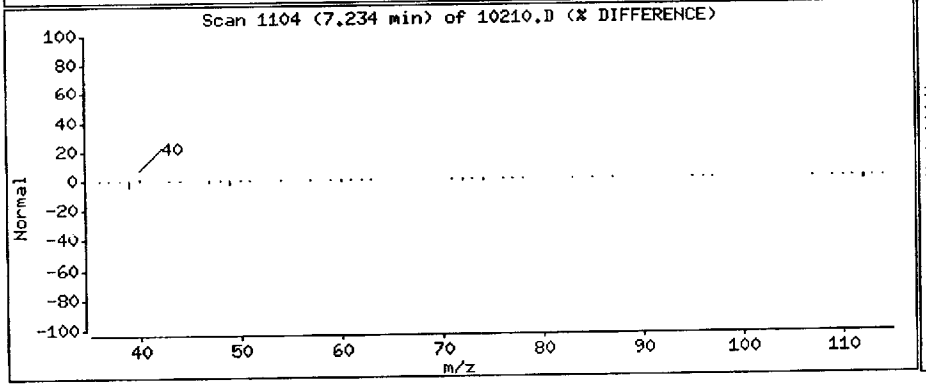
37 1,1-Dichloropropene

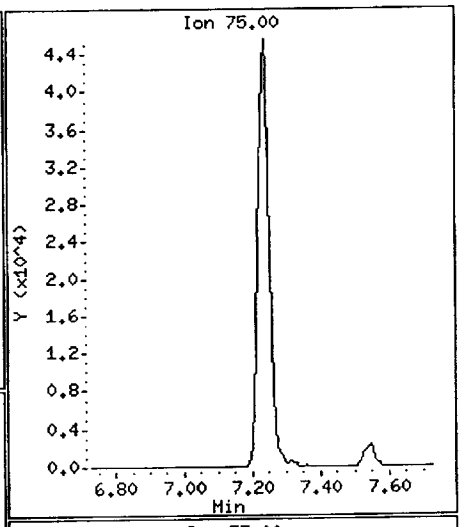
Concentration: 22.2 ug/l

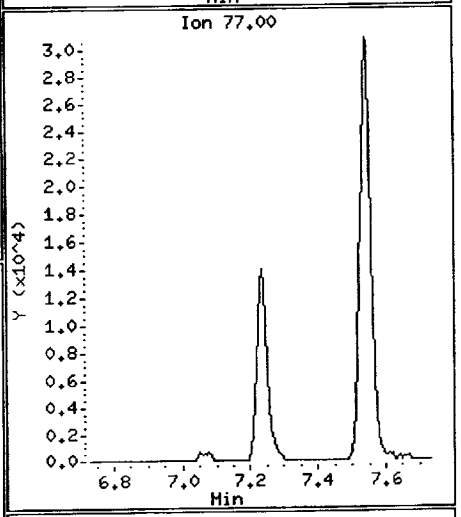


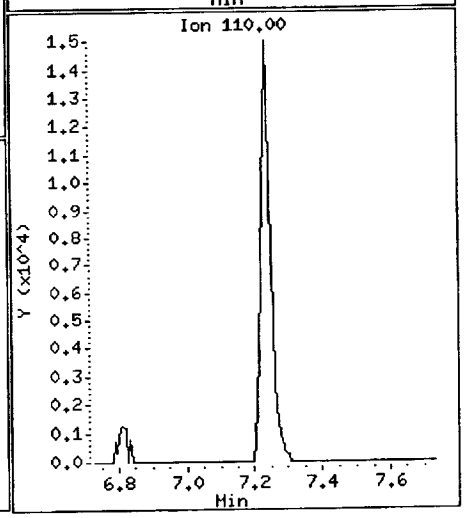












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10210.D

Date : 25-SEP-2002 07:37

Client ID: 11Q30228MS

Instrument: vms03.i

Sample Info: 220910210;2209102;1;

Purge Volume: 5.0

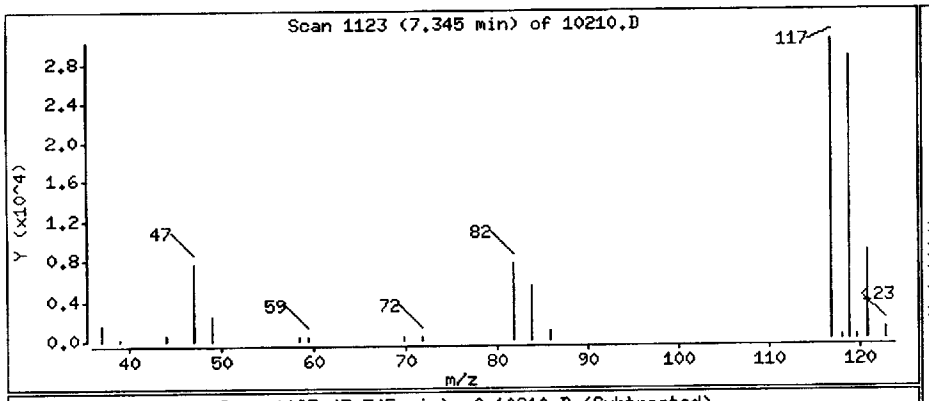
Operator:

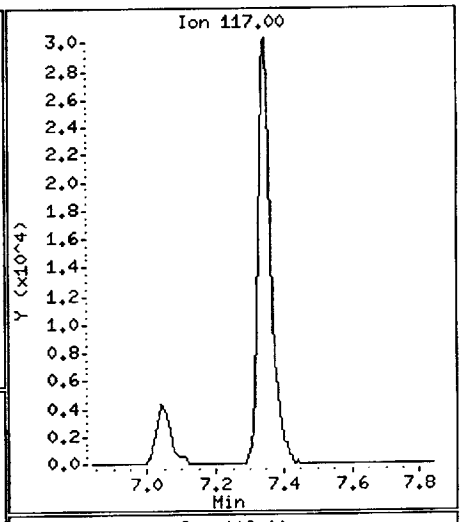
Column phase: DB-624

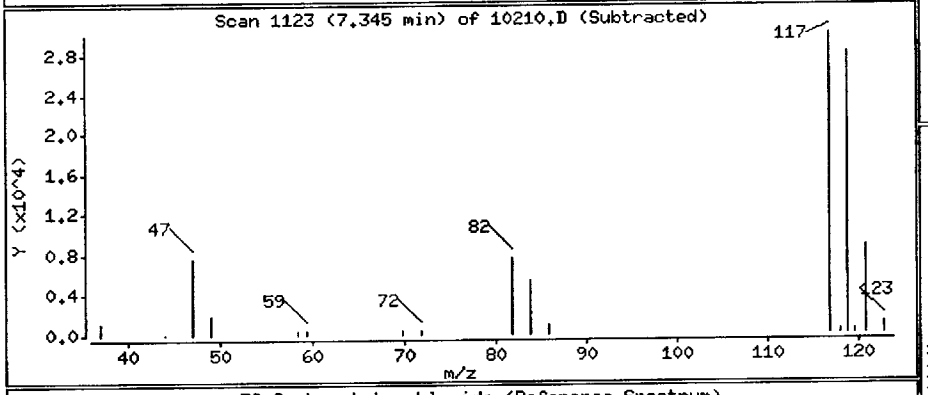
Column diameter: 0.18

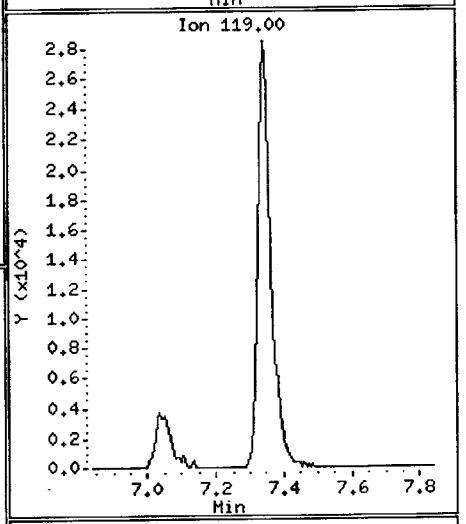
38 Carbon tetrachloride

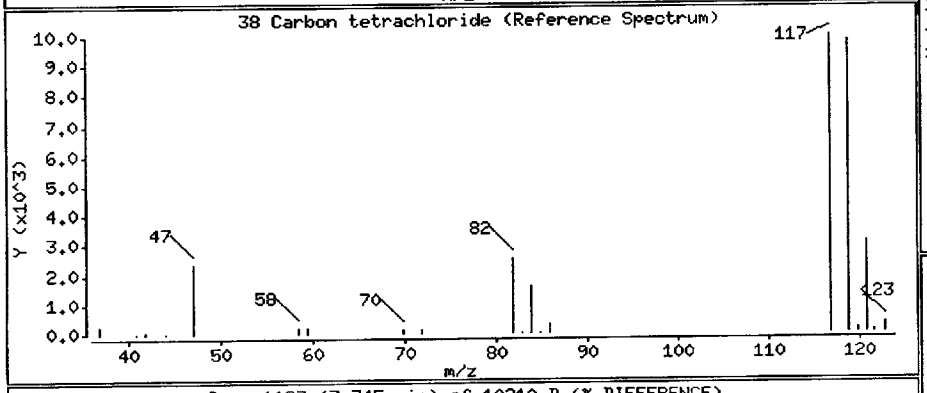
Concentration: 21.4 ug/l

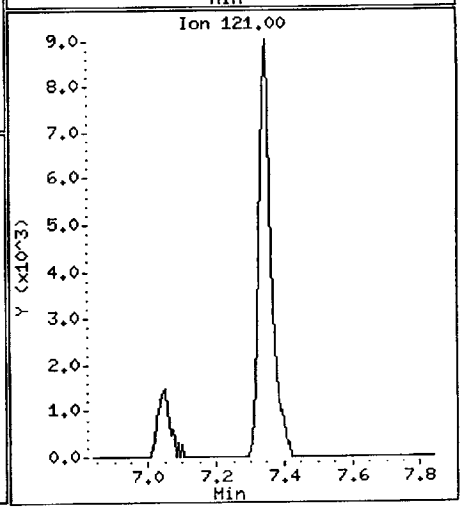


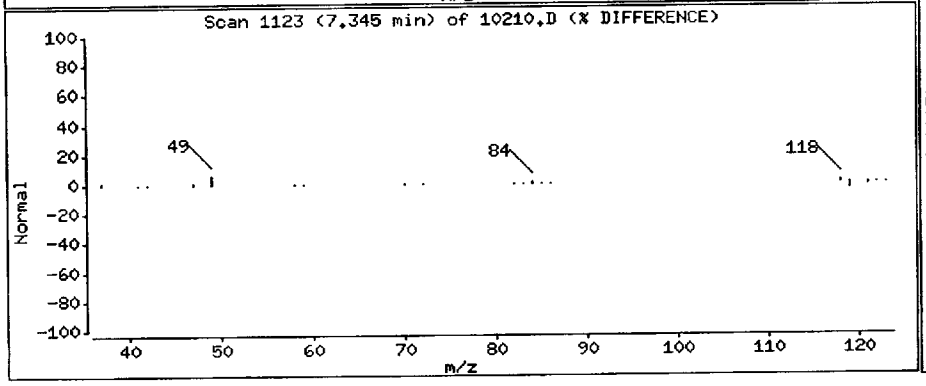












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10210.D

Date : 25-SEP-2002 07:37

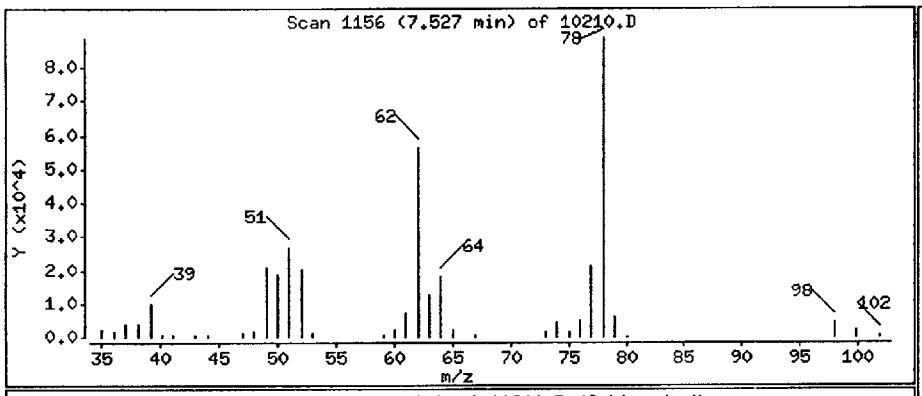
Client ID: 11Q30228MS | Instrument: vms03.i

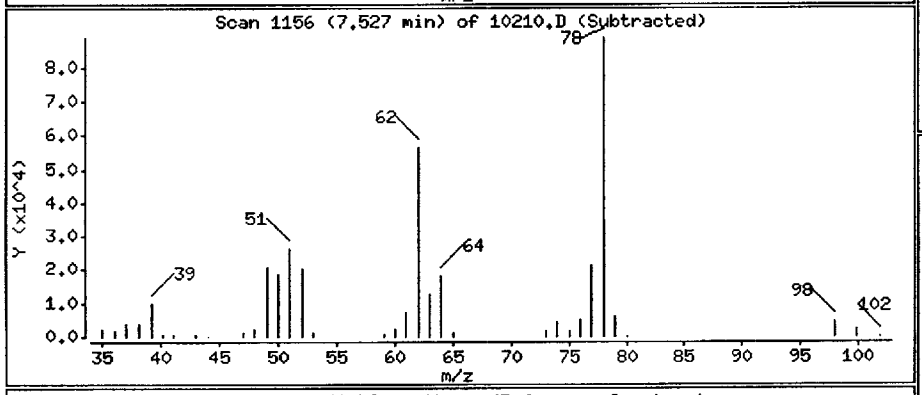
Sample Info: 220910210;2209102;1;

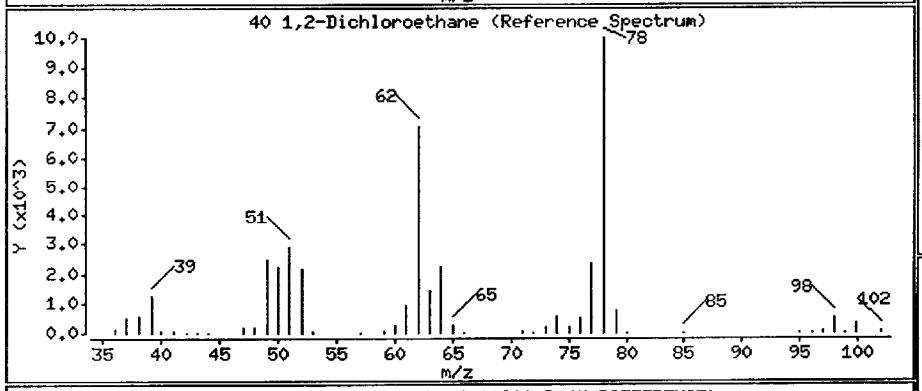
Purge Volume: 5.0 | Operator:

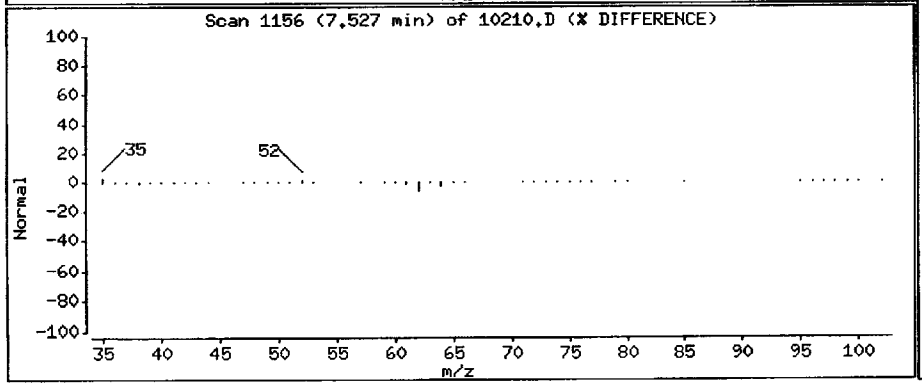
Column phase: DB-624 | Column diameter: 0.18

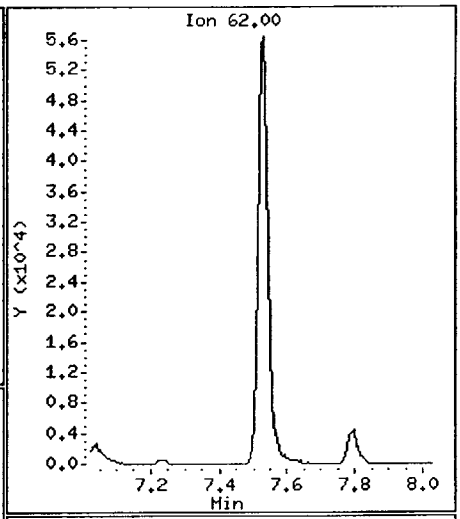
40 1,2-Dichloroethane | Concentration: 22.1 ug/l

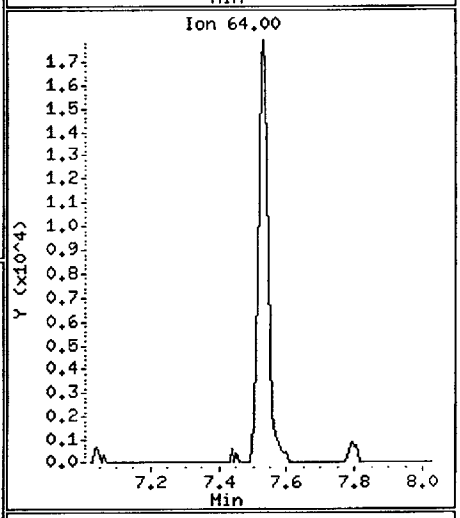


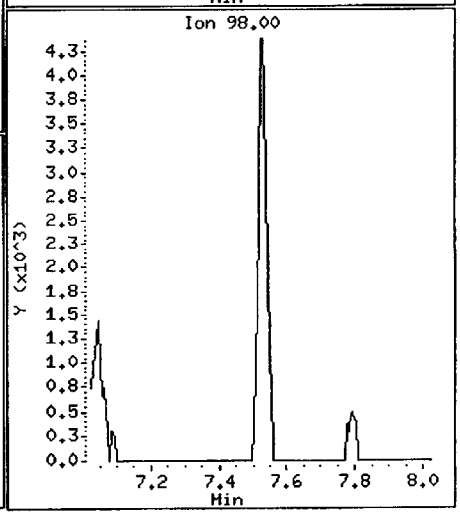












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10210.D

Date : 25-SEP-2002 07:37

Client ID: 11Q30228MS

Instrument: vms03.i

Sample Info: 220910210;2209102;1;

Purge Volume: 5.0

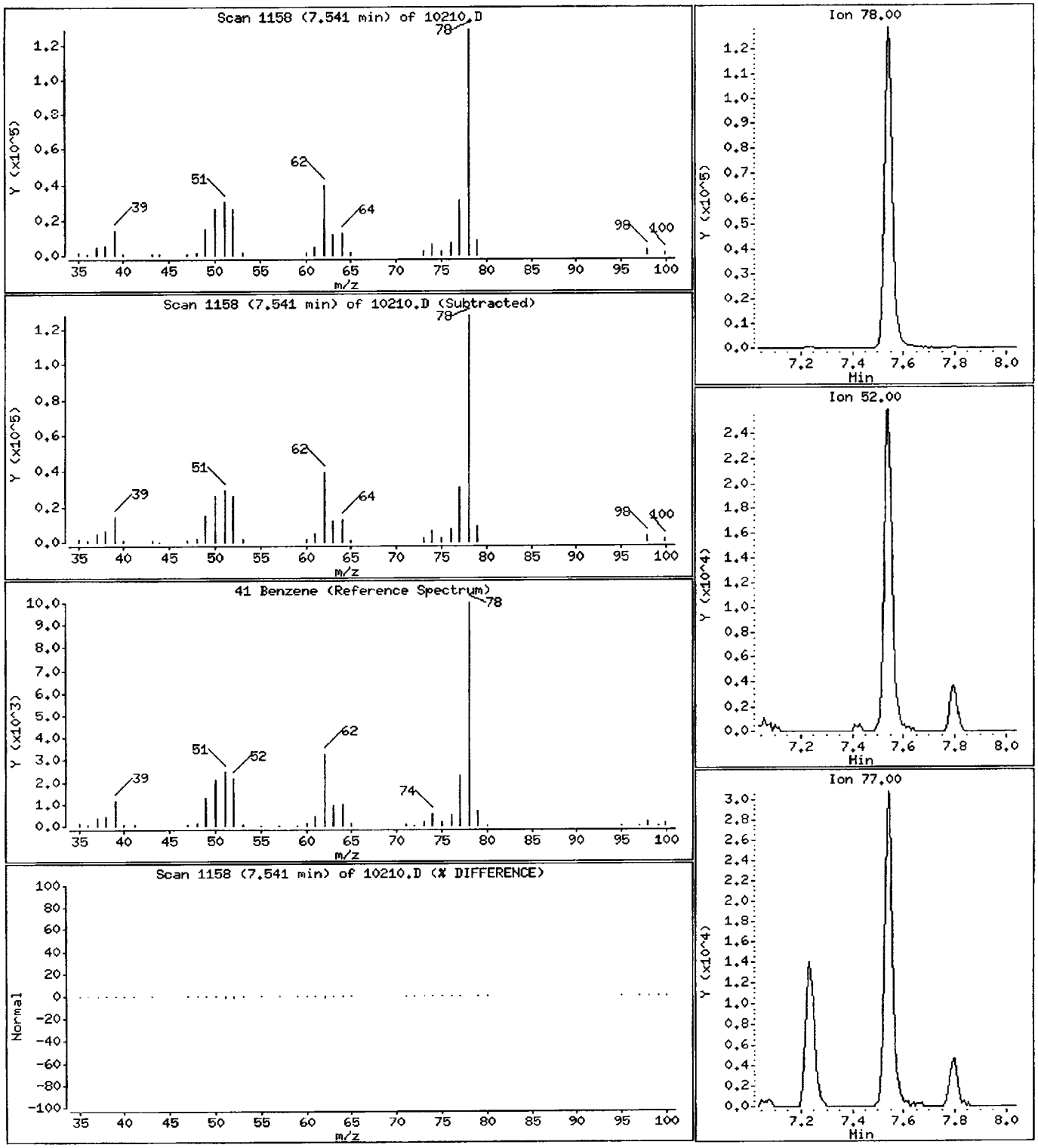
Operator:

Column phase: DB-624

Column diameter: 0.18

41 Benzene

Concentration: 21.6 ug/l



Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10210.D

Date : 25-SEP-2002 07:37

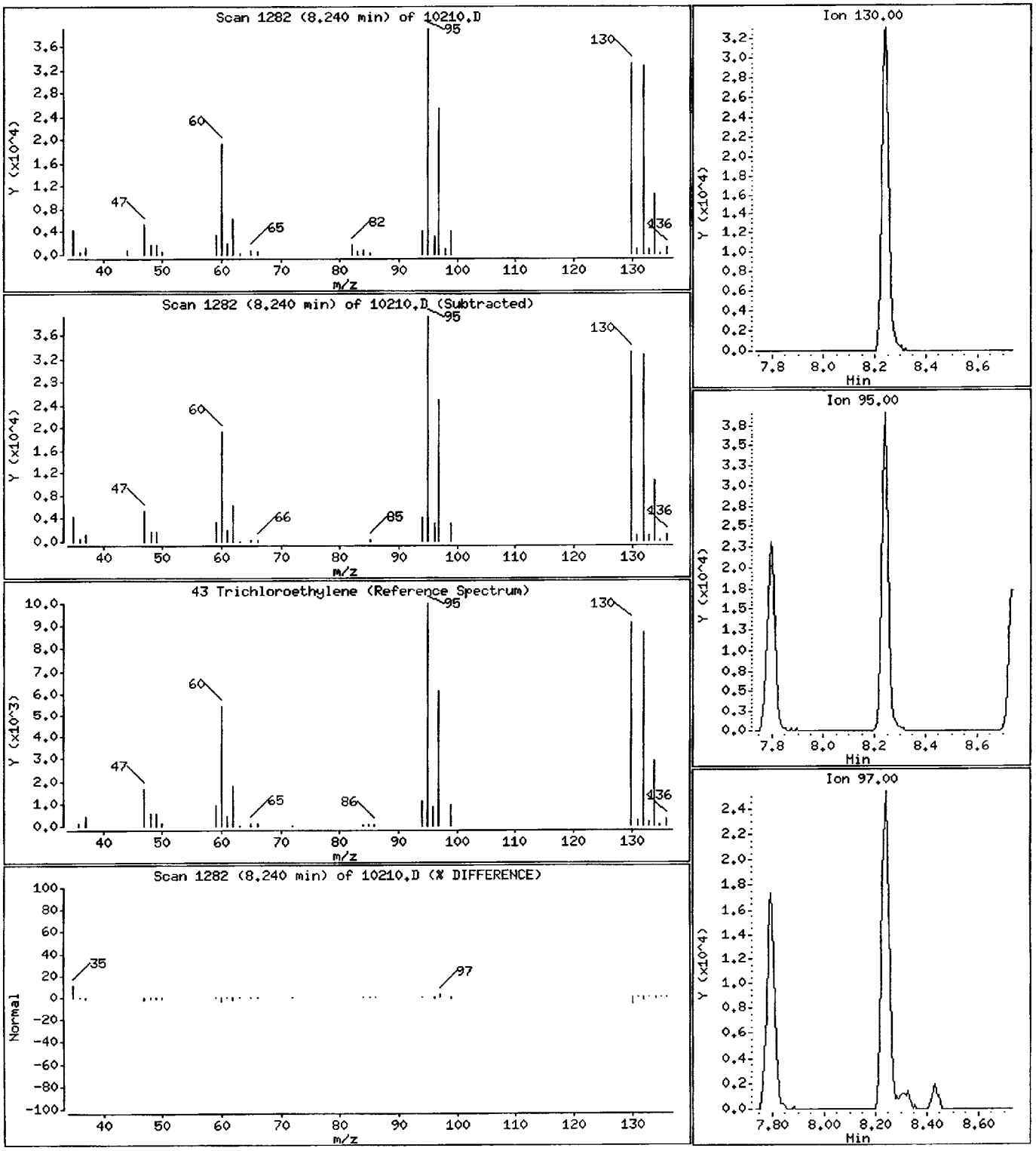
Client ID: 11Q30228MS | Instrument: vms03.i

Sample Info: 220910210;2209102;1;

Purge Volume: 5.0 | Operator:

Column phase: DB-624 | Column diameter: 0.18

43 Trichloroethylene | Concentration: 22.1 ug/l



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Date : 25-SEP-2002 07:37

Client ID: 11Q30228MS

Instrument: vms03.i

Sample Info: 220910210;2209102;1;

Purge Volume: 5.0

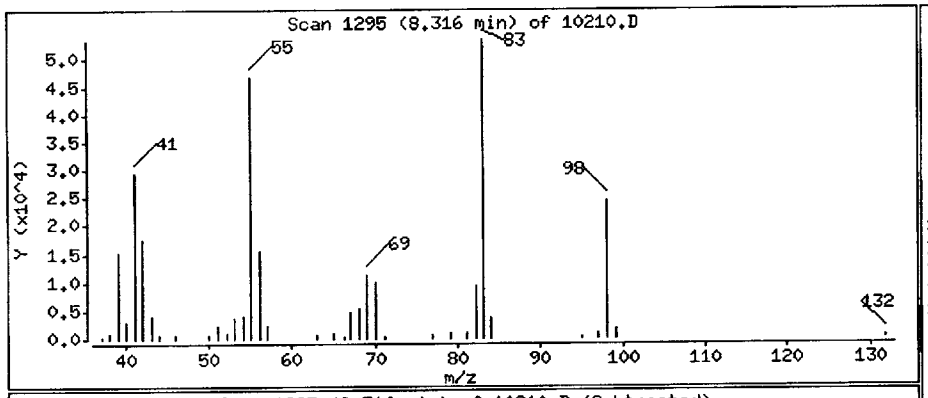
Operator:

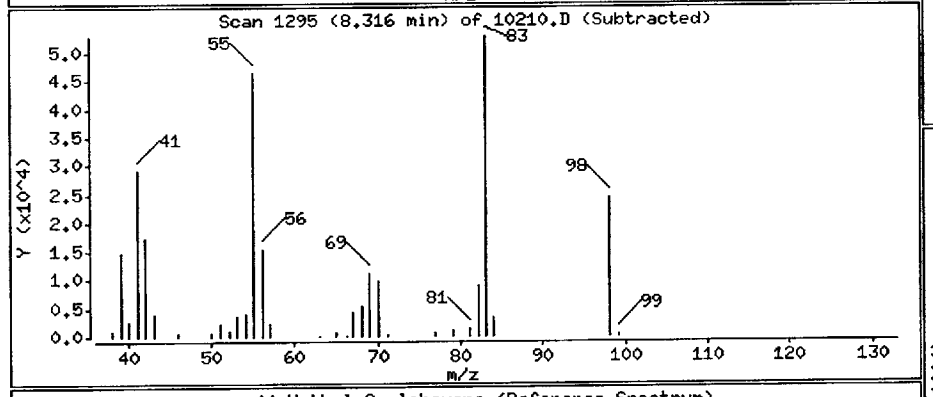
Column phase: DB-624

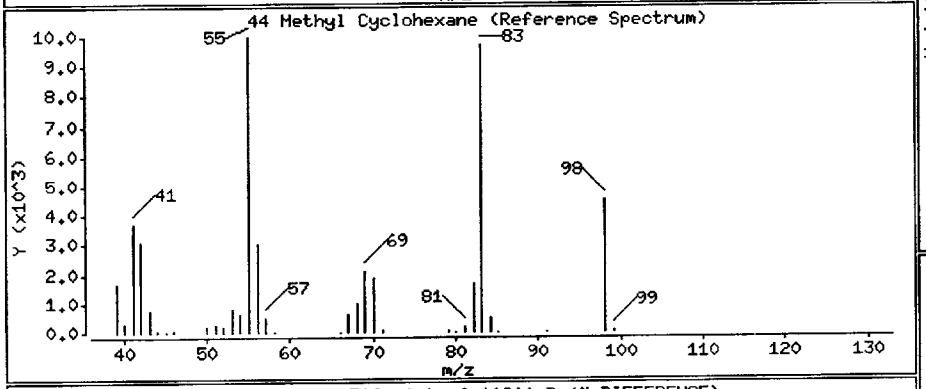
Column diameter: 0.18

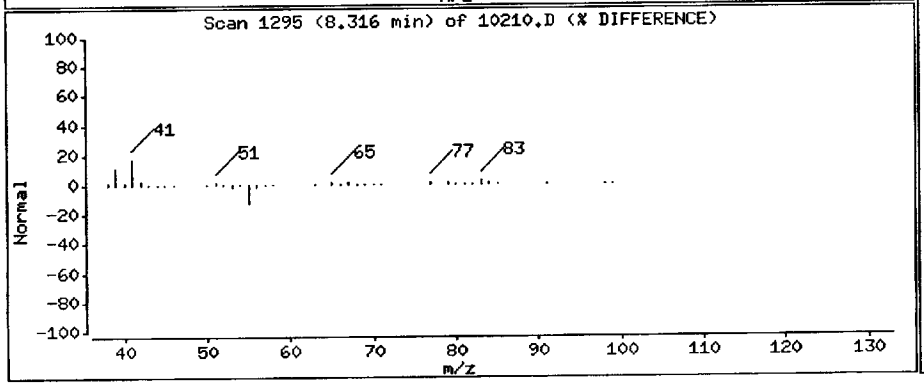
44 Methyl Cyclohexane

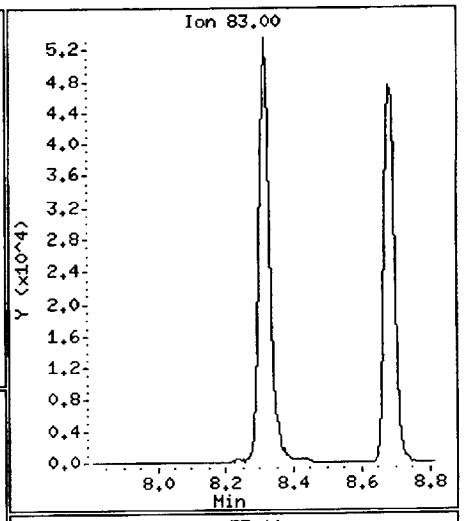
Concentration: 20.8 ug/l

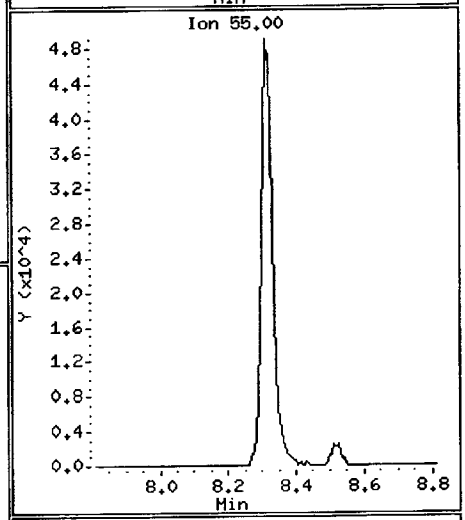


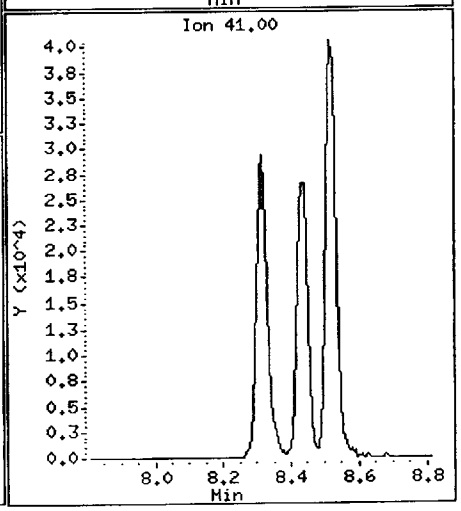












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10210.D

Date : 25-SEP-2002 07:37

Client ID: 11Q30228MS

Instrument: vms03.i

Sample Info: 220910210;2209102;1;

Purge Volume: 5.0

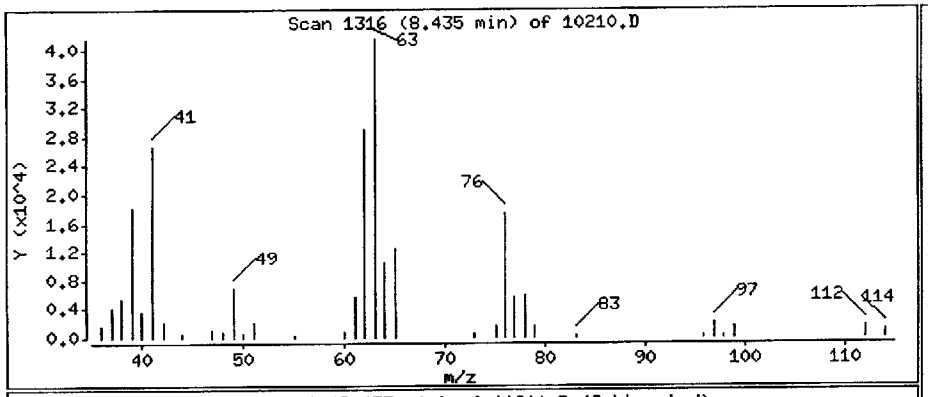
Operator:

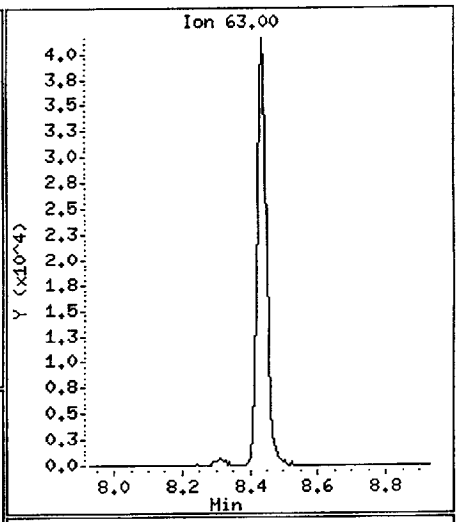
Column phase: DB-624

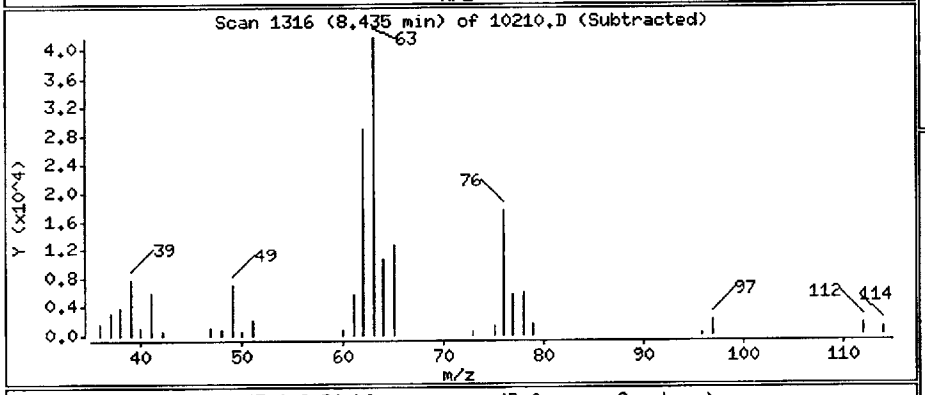
Column diameter: 0.18

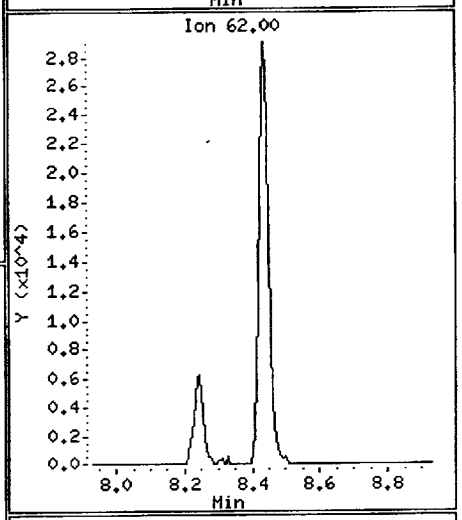
45 1,2-Dichloropropane

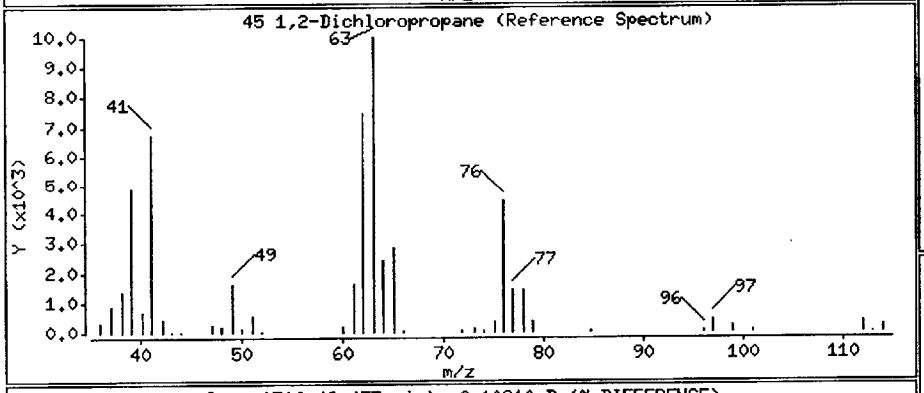
Concentration: 22.1 ug/l

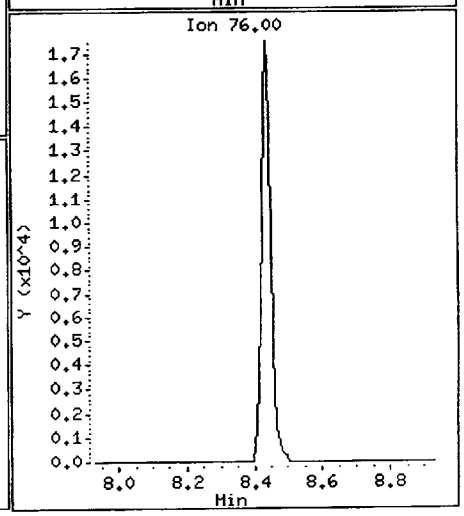


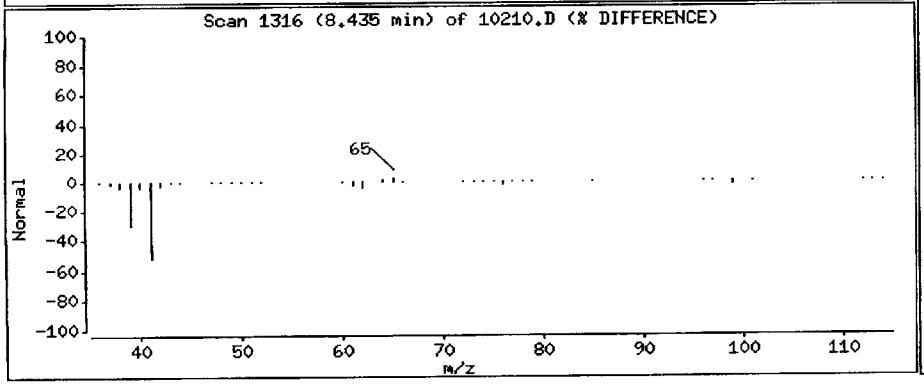












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10210.D

Date : 25-SEP-2002 07:37

Client ID: 11Q30228MS

Instrument: vms03.i

Sample Info: 220910210;2209102;1;

Purge Volume: 5.0

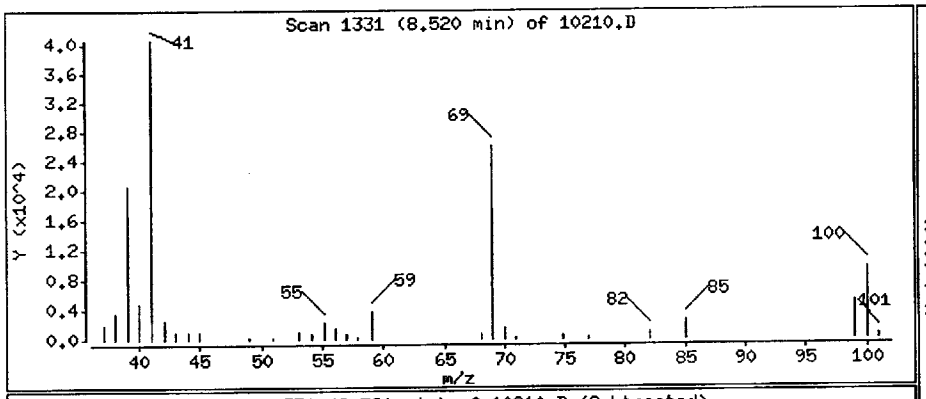
Operator:

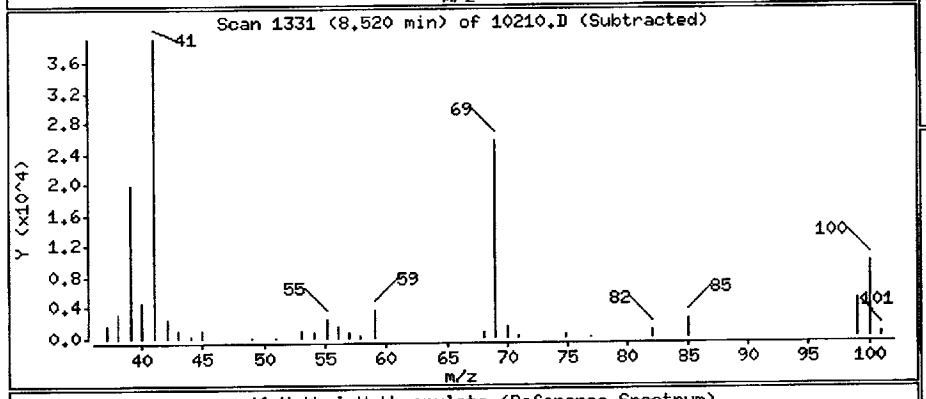
Column phase: DB-624

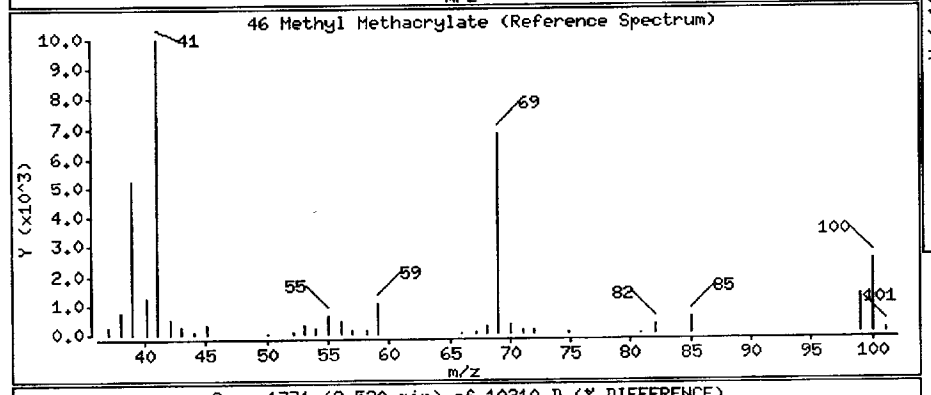
Column diameter: 0.18

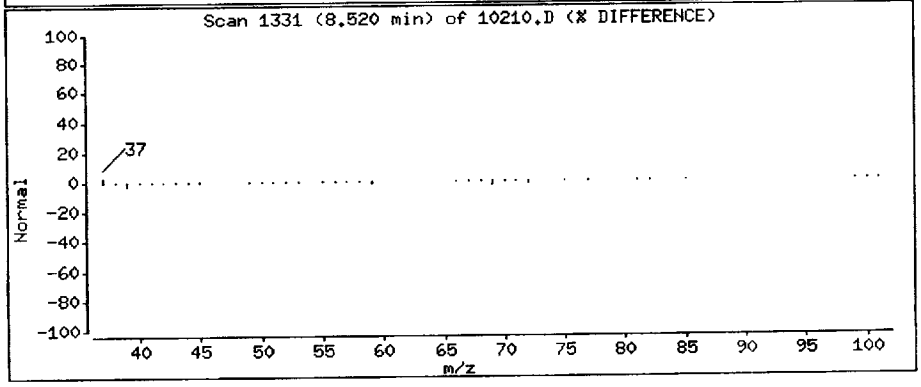
46 Methyl Methacrylate

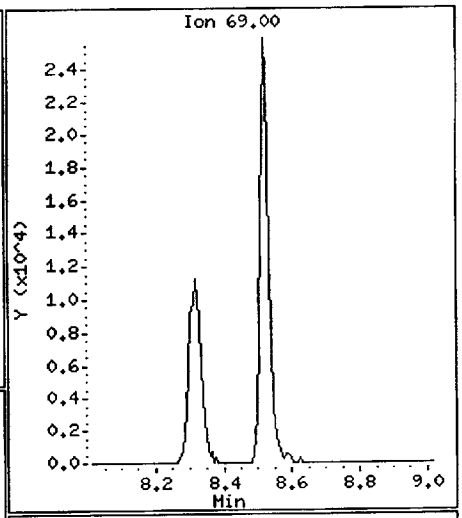
Concentration: 21.6 ug/l

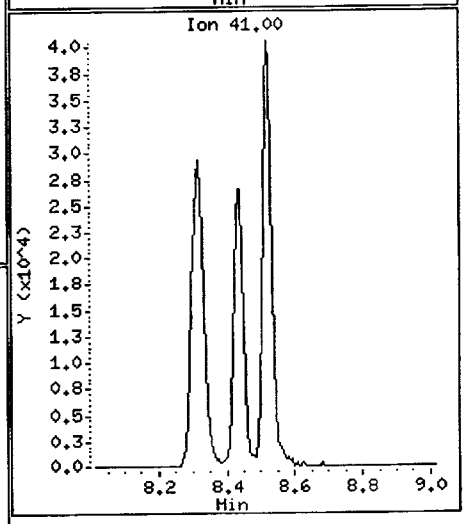












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Date : 25-SEP-2002 07:37

Client ID: 11Q30228MS

Instrument: vms03.i

Sample Info: 220910210;2209102;1;

Purge Volume: 5.0

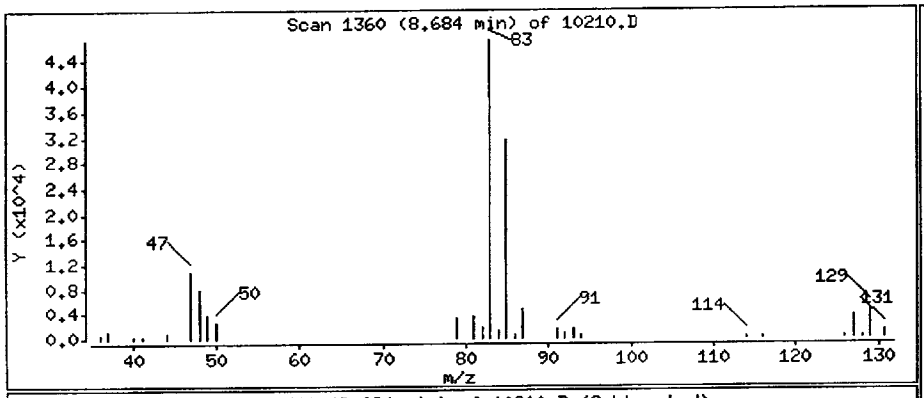
Operator:

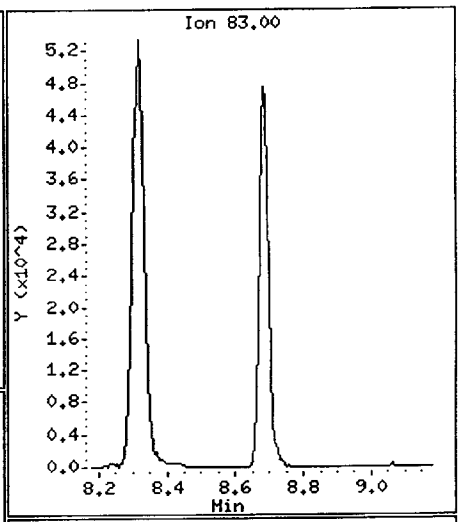
Column phase: DB-624

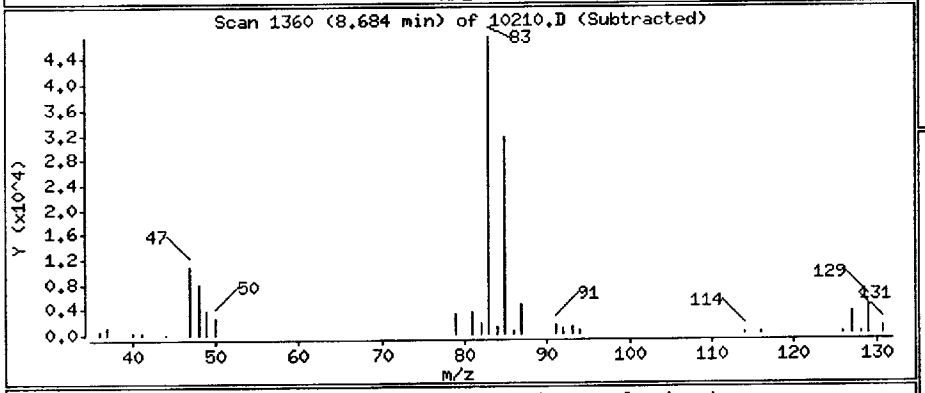
Column diameter: 0.18

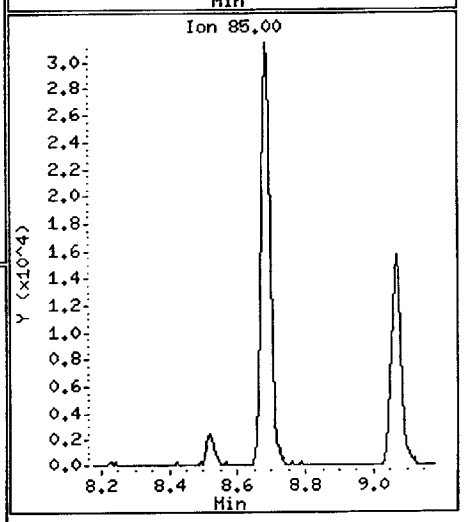
47 Bromodichloromethane

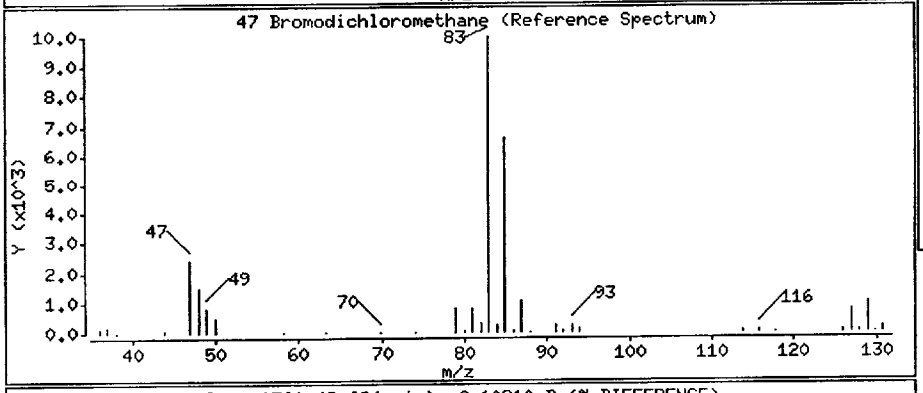
Concentration: 20.8 ug/l

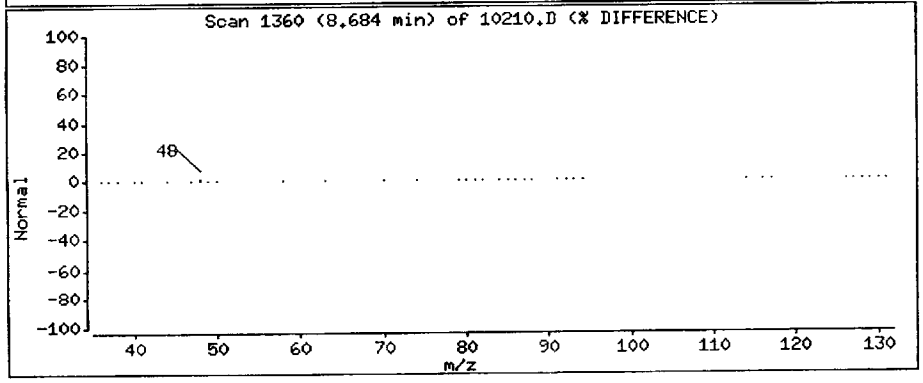












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Date : 25-SEP-2002 07:37

Client ID: 11Q30228MS

Instrument: vms03.i

Sample Info: 220910210;2209102;1;

Purge Volume: 5.0

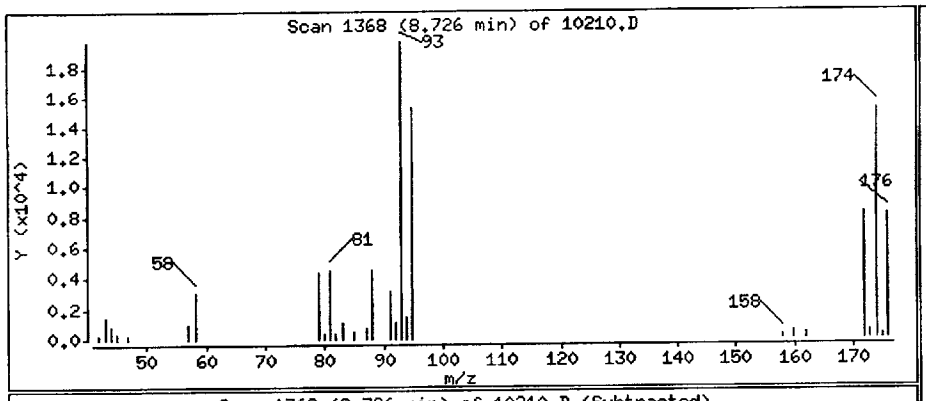
Operator:

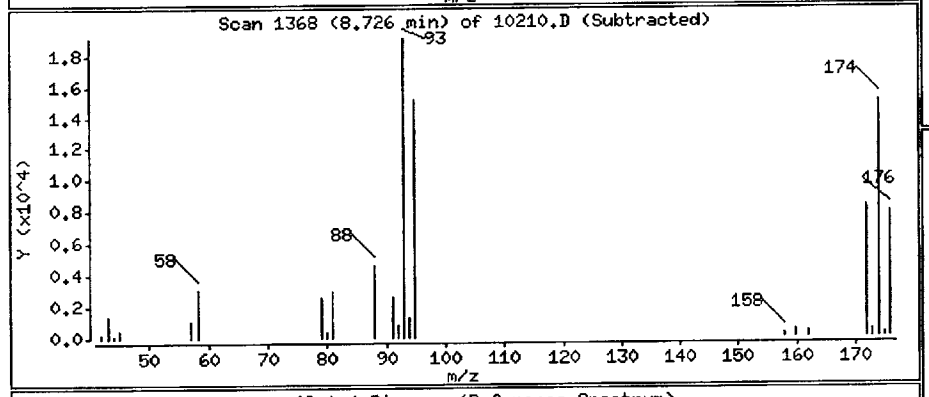
Column phase: DB-624

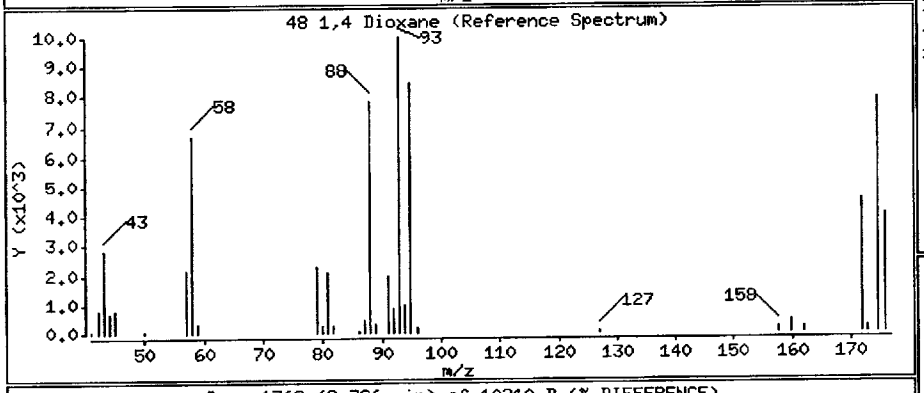
Column diameter: 0.18

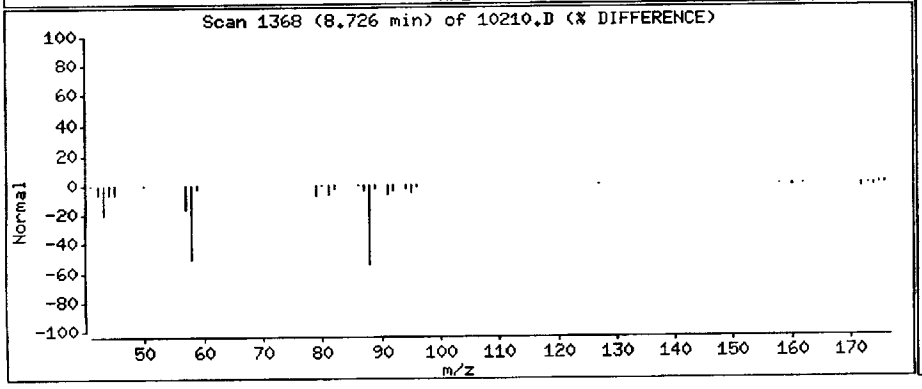
48 1,4 Dioxane

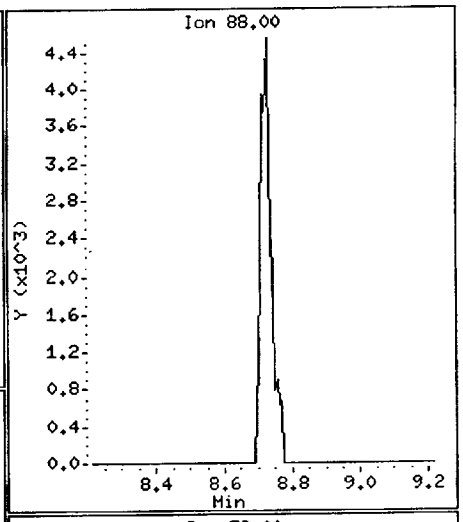
Concentration: 369 ug/l

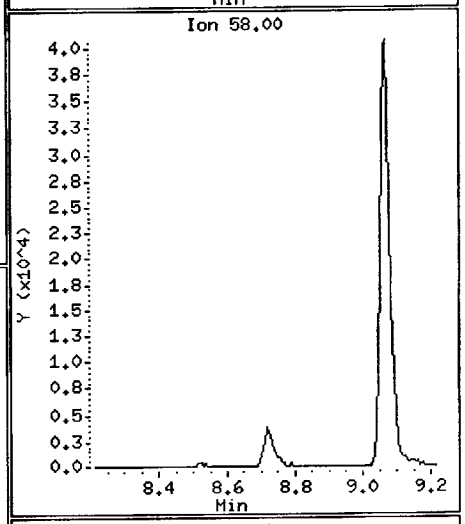


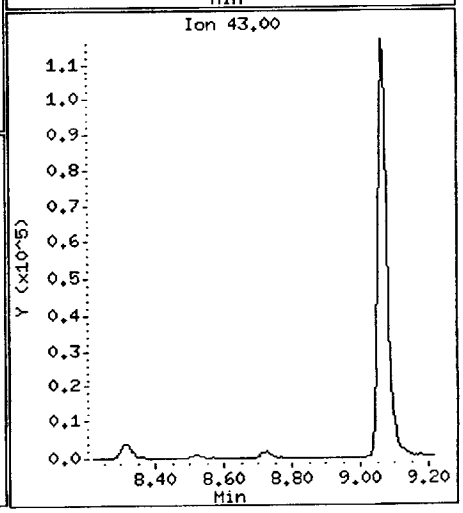












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10210.D

Date : 25-SEP-2002 07:37

Client ID: 11Q30228MS

Instrument: vms03.i

Sample Info: 220910210;2209102;1;

Purge Volume: 5.0

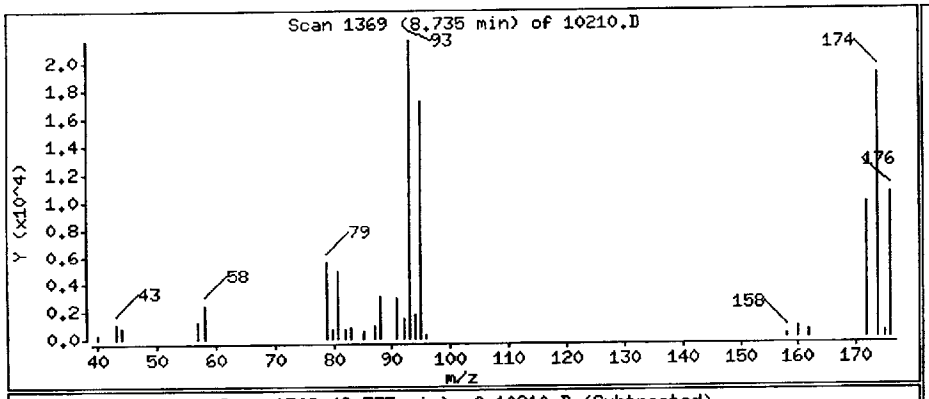
Operator:

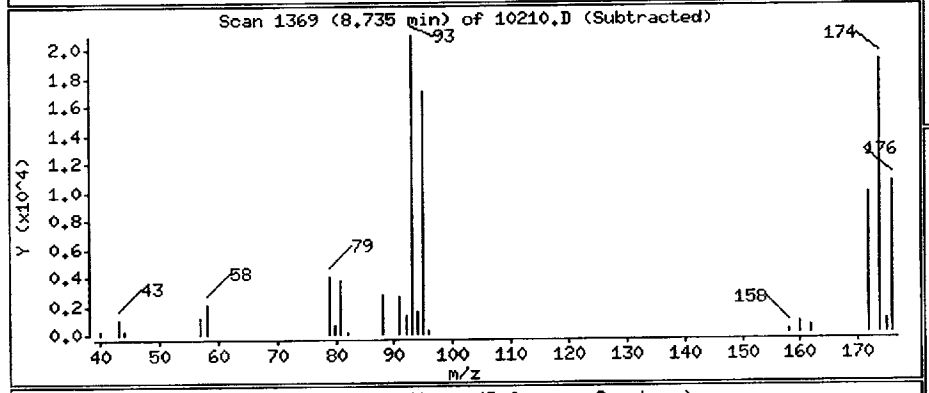
Column phase: DB-624

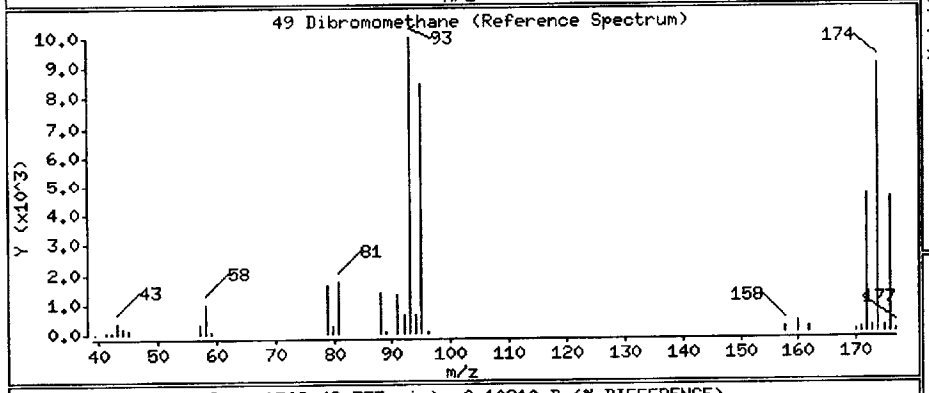
Column diameter: 0.18

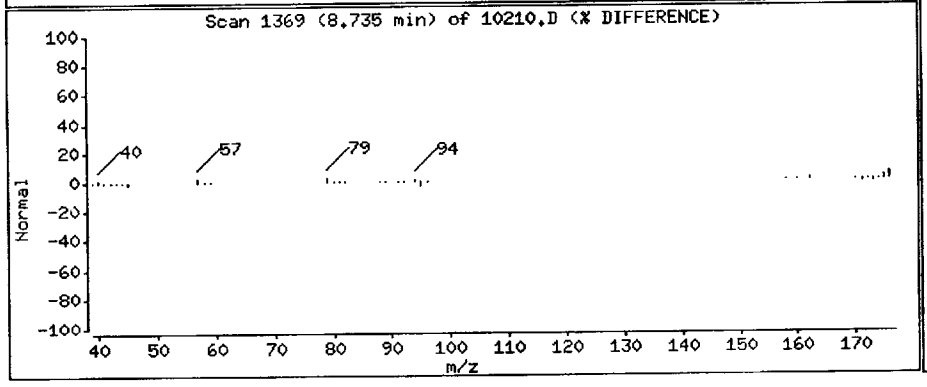
49 Dibromomethane

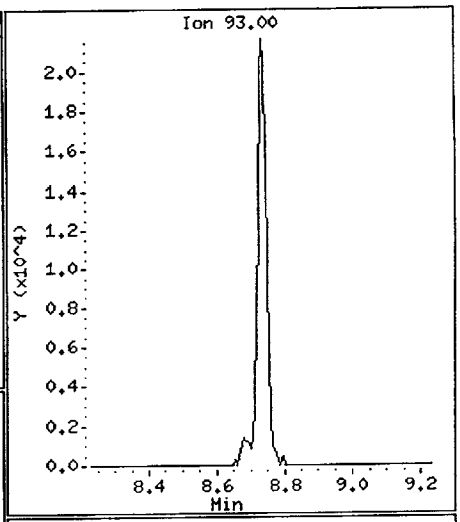
Concentration: 21.4 ug/l

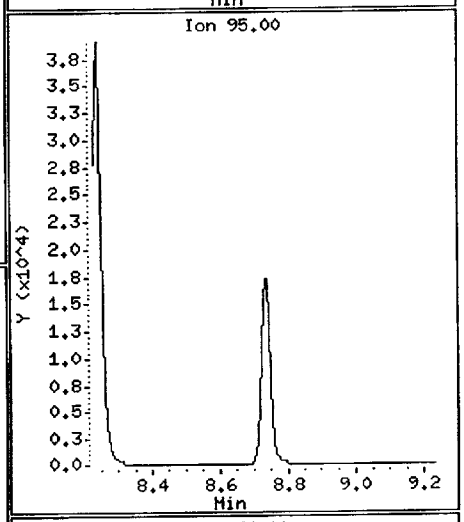


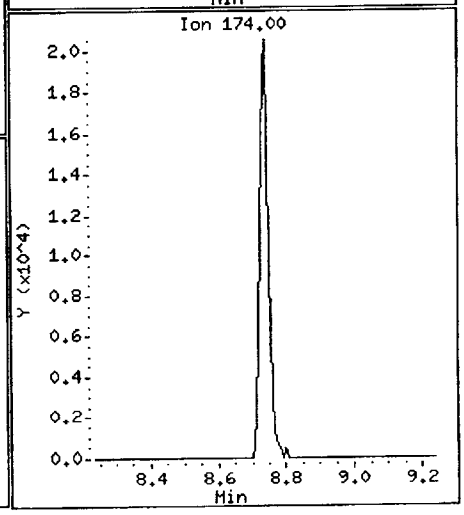












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10210.D

Date : 25-SEP-2002 07:37

Client ID: 11Q30228MS

Instrument: vms03.i

Sample Info: 220910210;2209102;1;

Purge Volume: 5.0

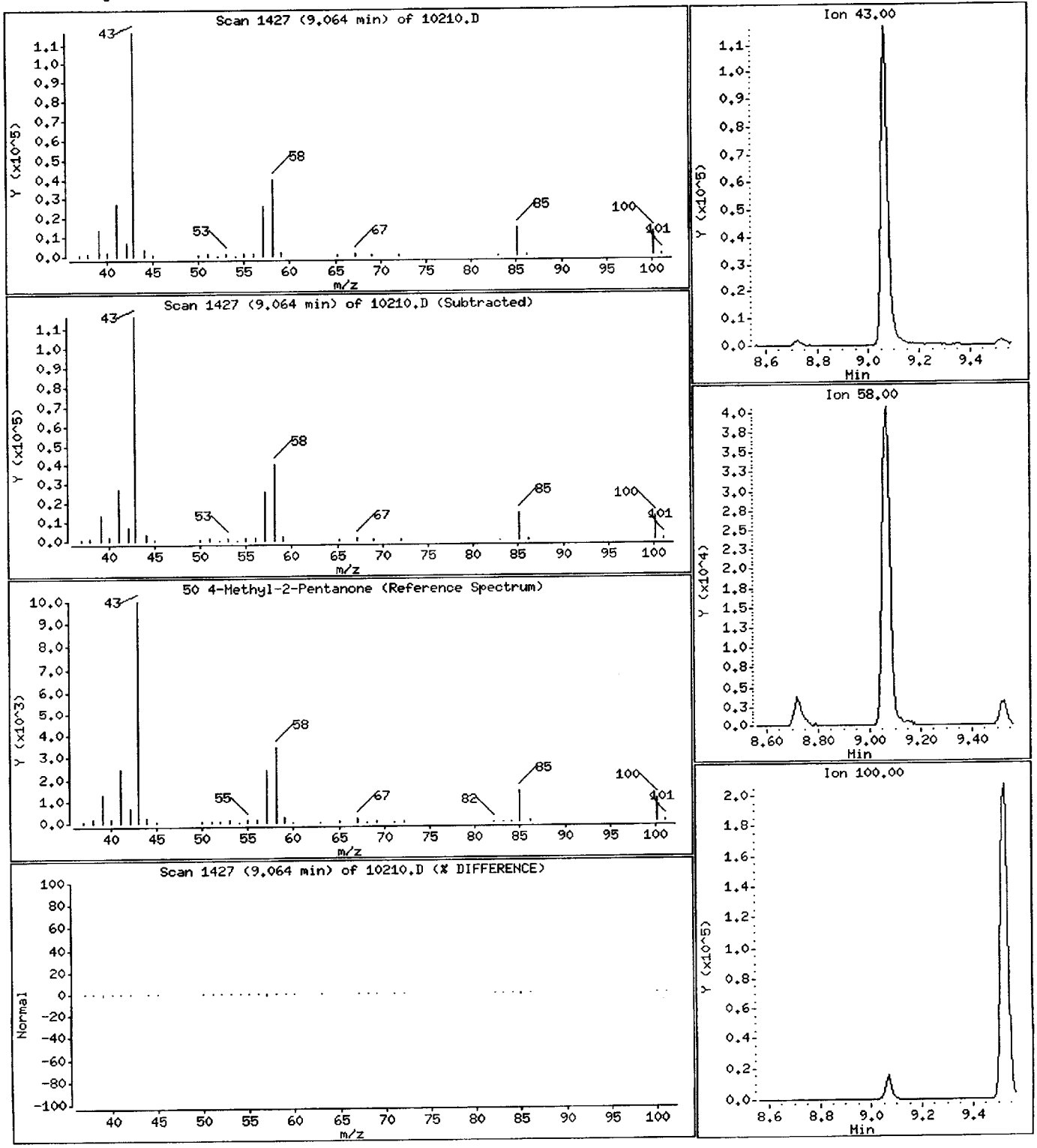
Operator:

Column phase: DB-624

Column diameter: 0.18

50 4-Methyl-2-Pentanone

Concentration: 67.0 ug/l



Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10210.D

Date : 25-SEP-2002 07:37

Client ID: 11Q30228MS

Instrument: vms03.i

Sample Info: 220910210;2209102;1;

Purge Volume: 5.0

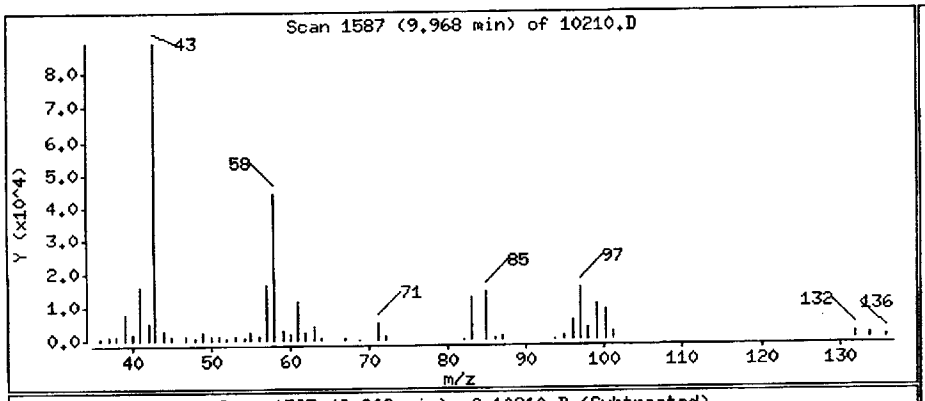
Operator:

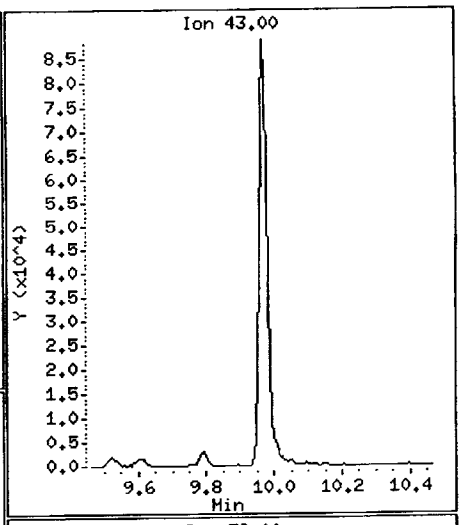
Column phase: DB-624

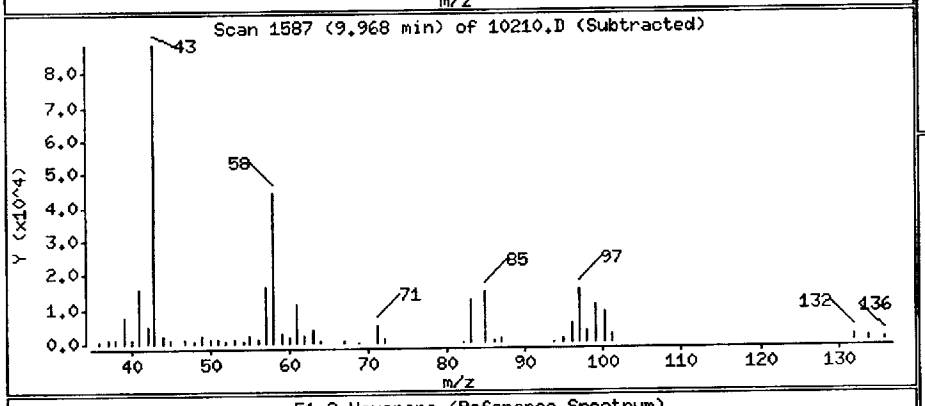
Column diameter: 0.18

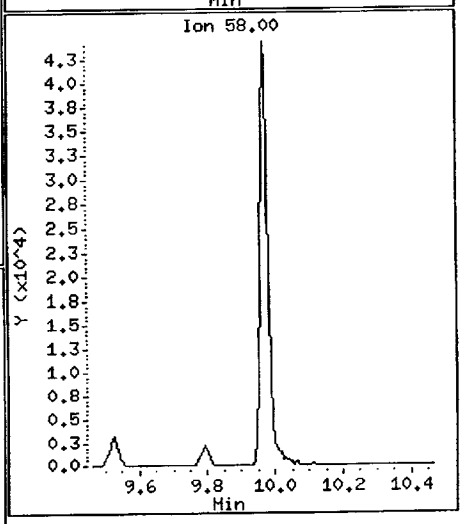
51 2-Hexanone

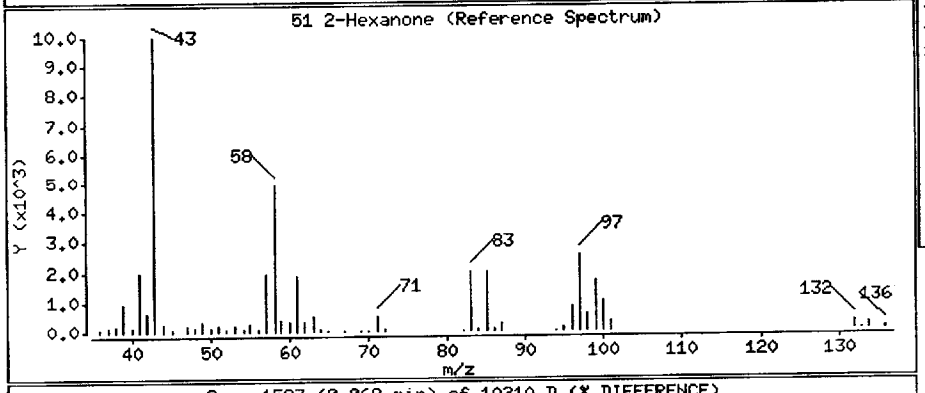
Concentration: 64.9 ug/l

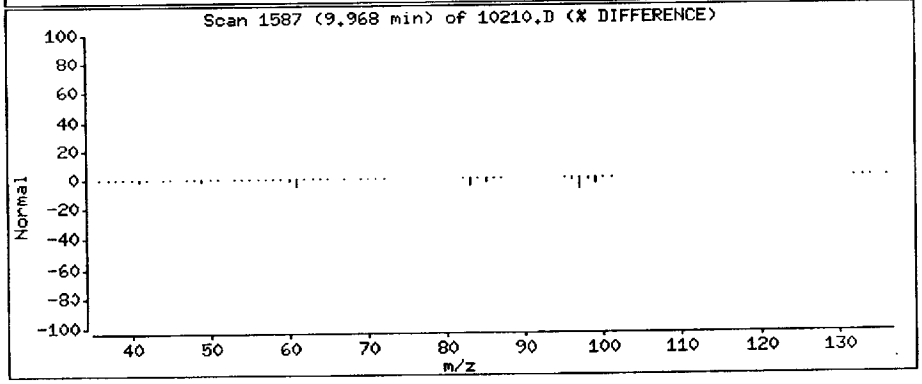












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10210.D

Date : 25-SEP-2002 07:37

Client ID: 11Q30228MS

Instrument: vms03.i

Sample Info: 220910210;2209102;1;

Operator:

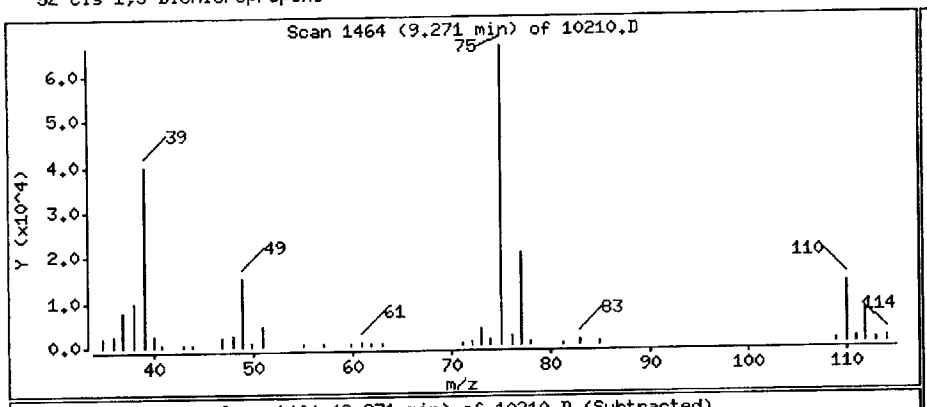
Purge Volume: 5.0

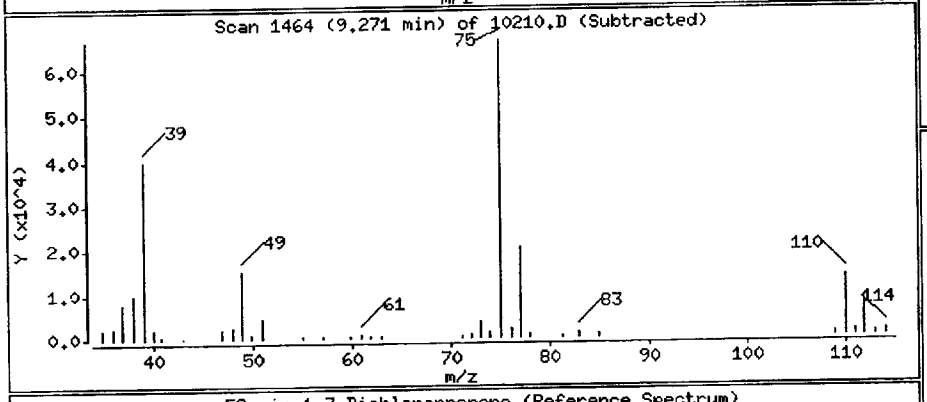
Column phase: DB-624

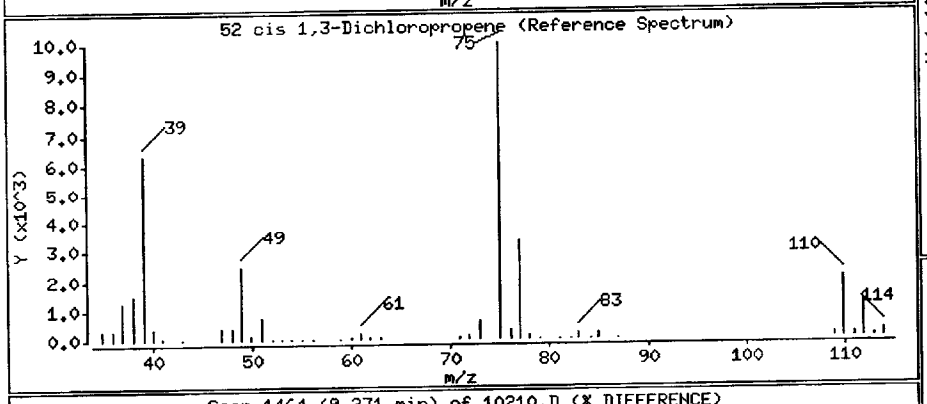
Column diameter: 0.18

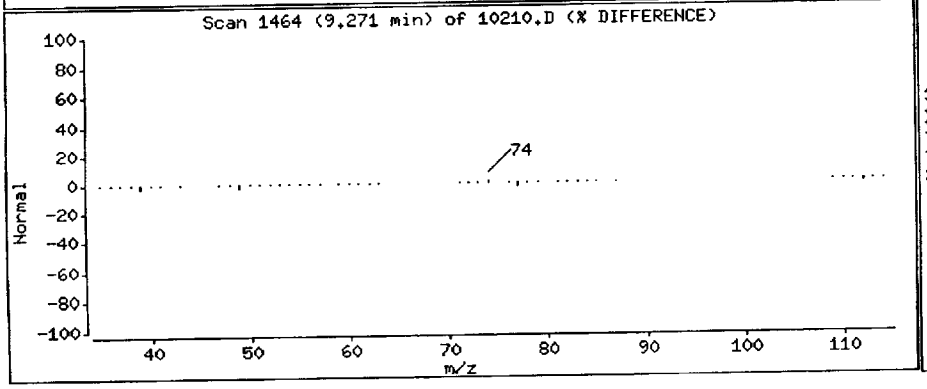
52 cis 1,3-Dichloropropene

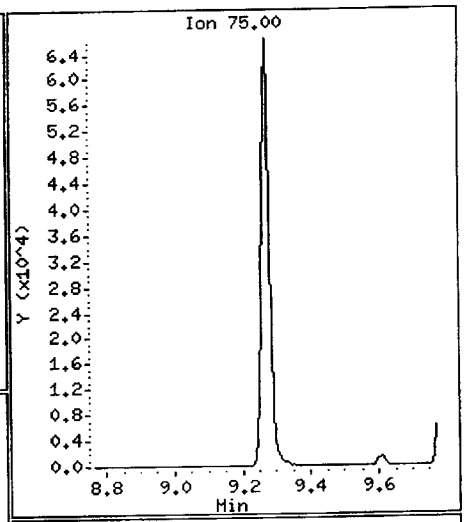
Concentration: 22.1 ug/l

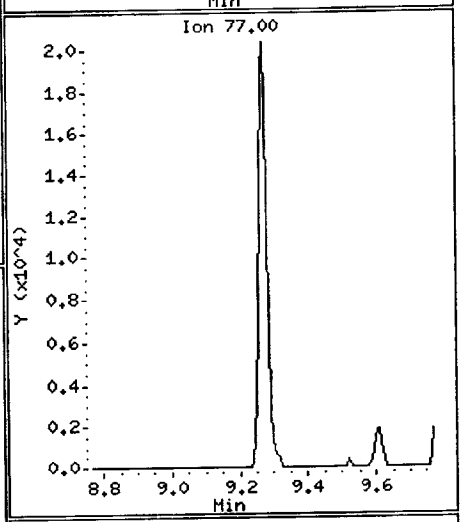


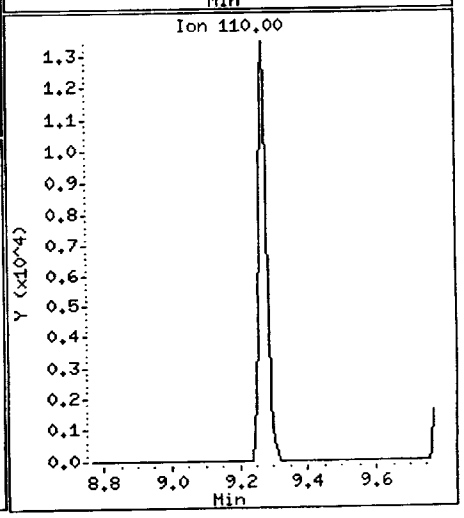












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10210.D

Date : 25-SEP-2002 07:37

Client ID: 11Q30228MS

Instrument: vms03.i

Sample Info: 220910210;2209102;1;

Purge Volume: 5.0

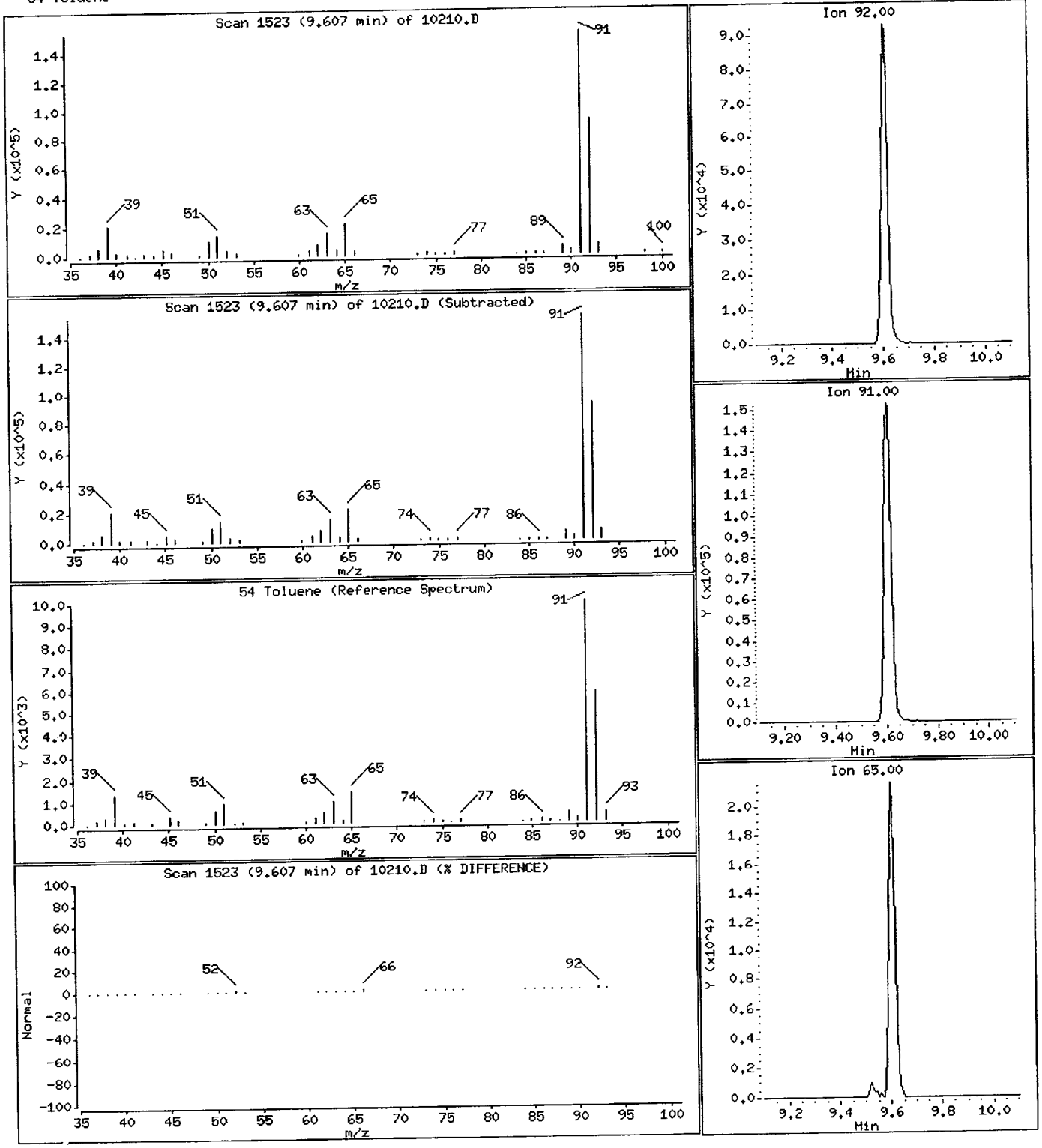
Operator:

Column phase: DB-624

Column diameter: 0.18

54 Toluene

Concentration: 22.3 ug/l



Data File: \\Vms03\dd\chem\vms03.i\H3092502.b\10210.D

Date : 25-SEP-2002 07:37

Client ID: 11Q30228MS

Instrument: vms03.i

Sample Info: 220910210;2209102;1;

Purge Volume: 5.0

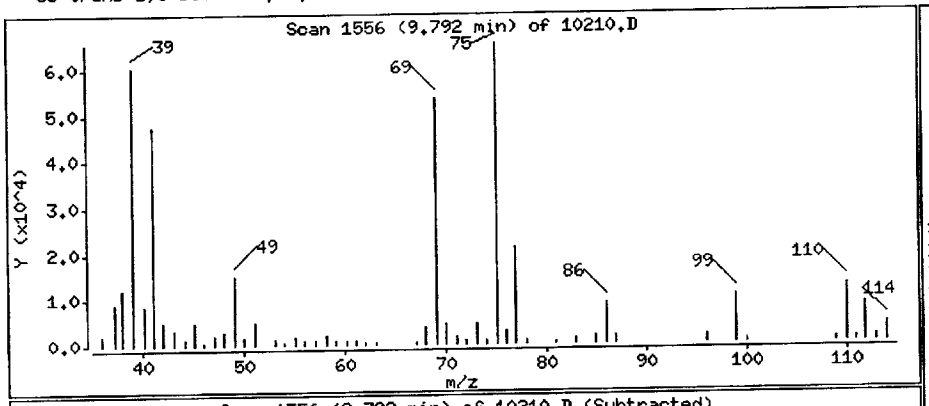
Operator:

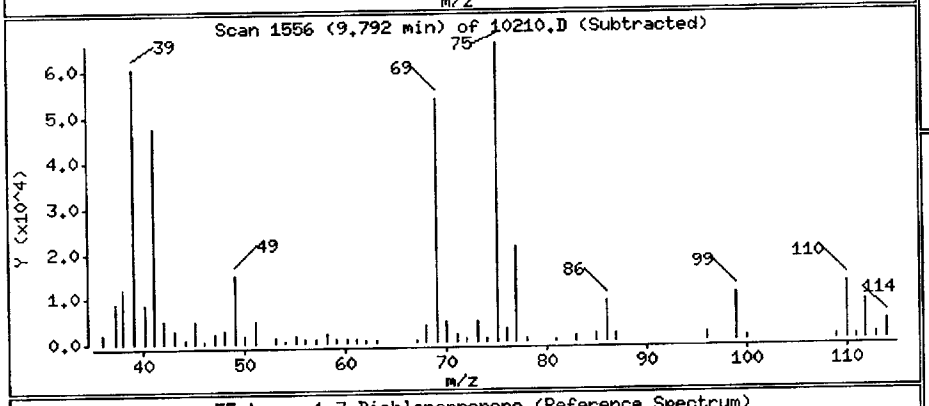
Column phase: DB-624

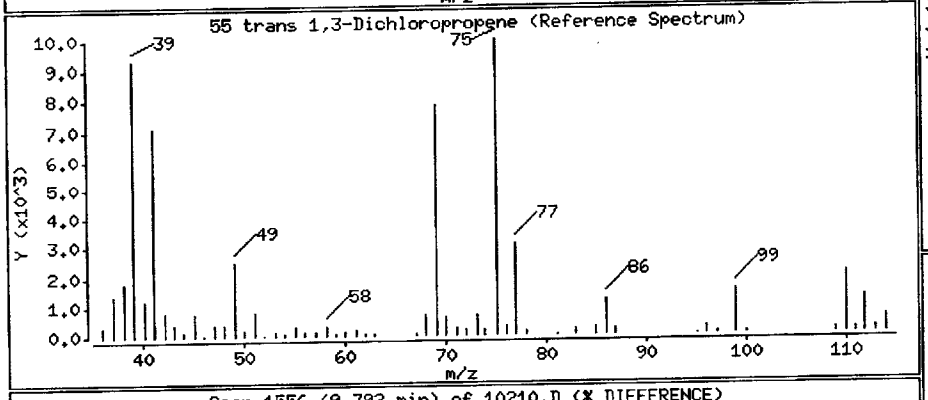
Column diameter: 0.18

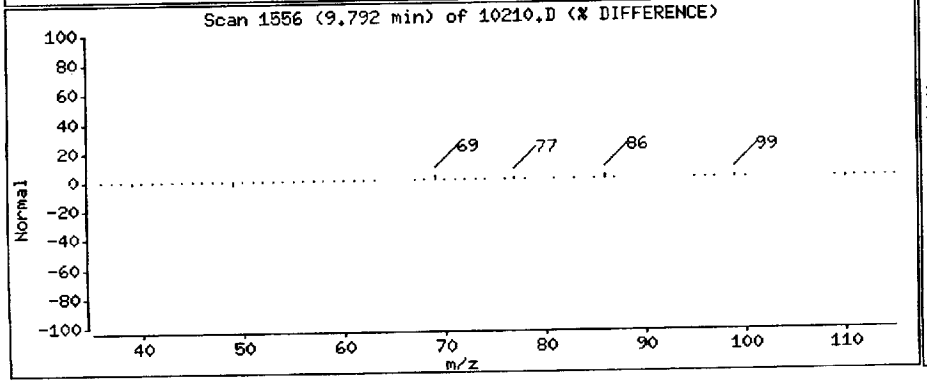
55 trans 1,3-Dichloropropene

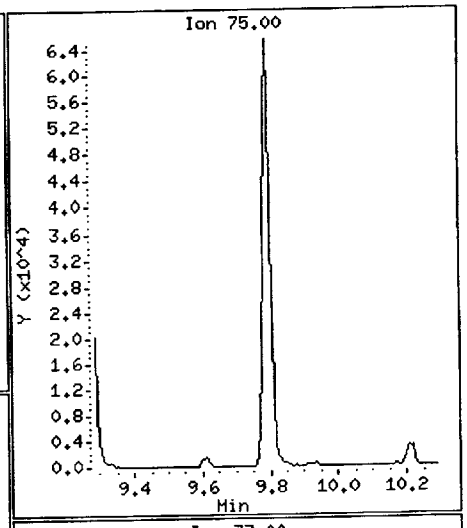
Concentration: 22.4 ug/l

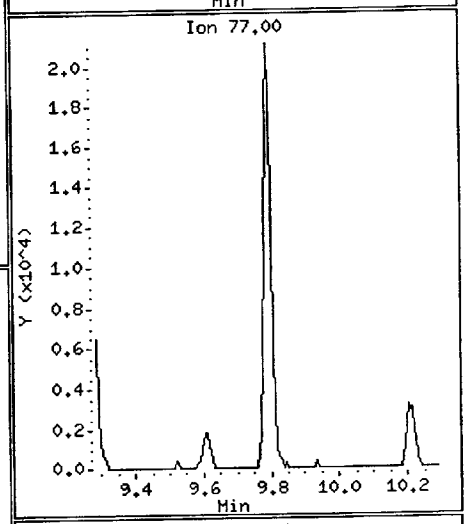


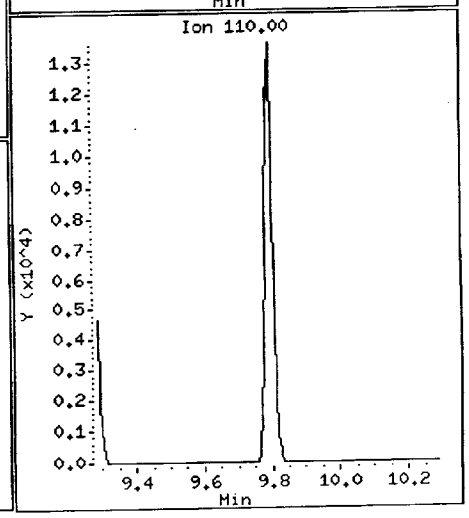












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10210.D

Date : 25-SEP-2002 07:37

Client ID: 11Q30228MS

Instrument: vms03.i

Sample Info: 220910210;2209102;1;

Purge Volume: 5.0

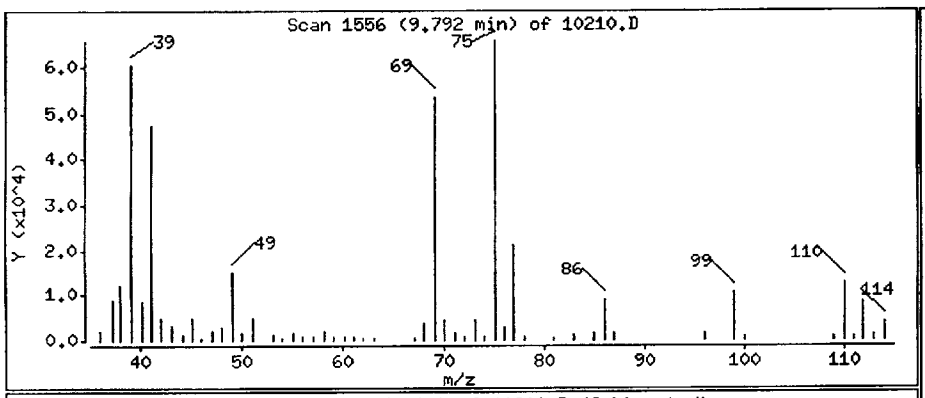
Operator:

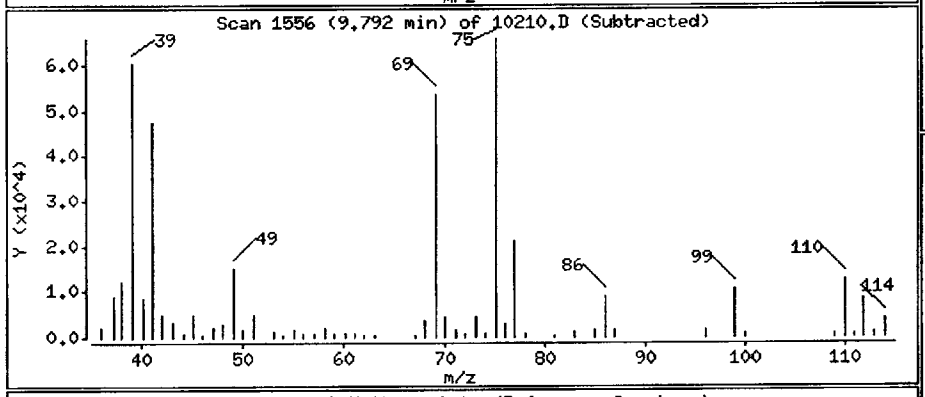
Column phase: DB-624

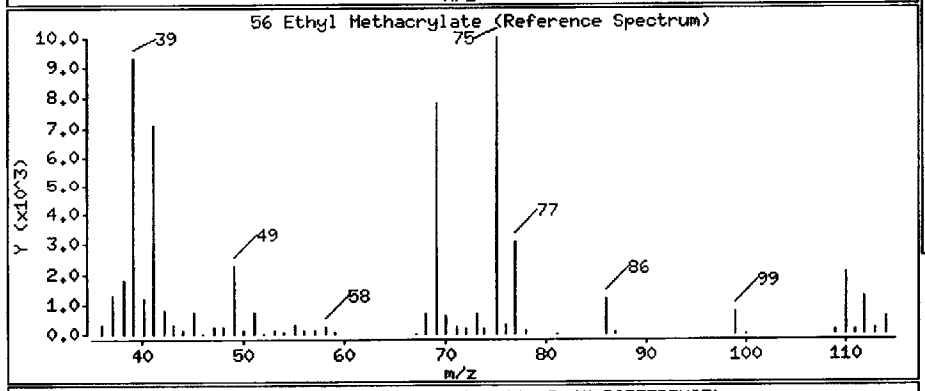
Column diameter: 0.18

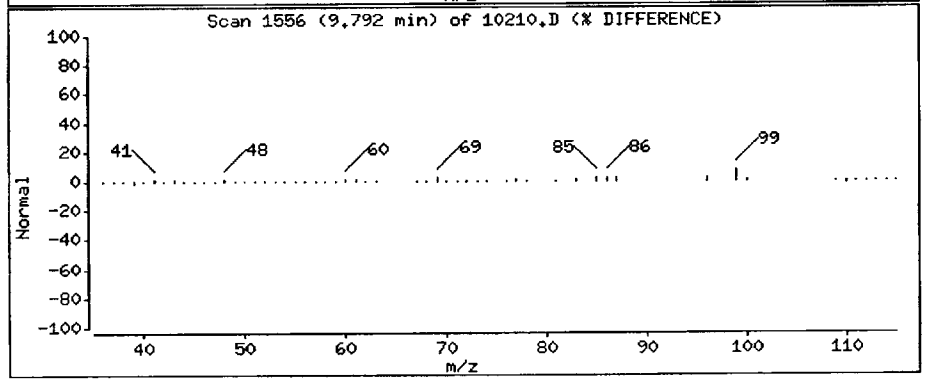
56 Ethyl Methacrylate

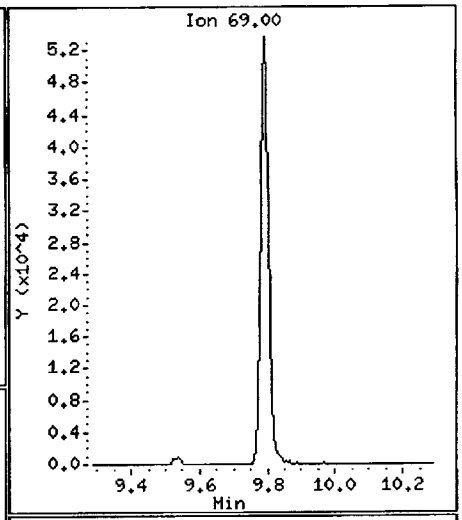
Concentration: 23.1 ug/l

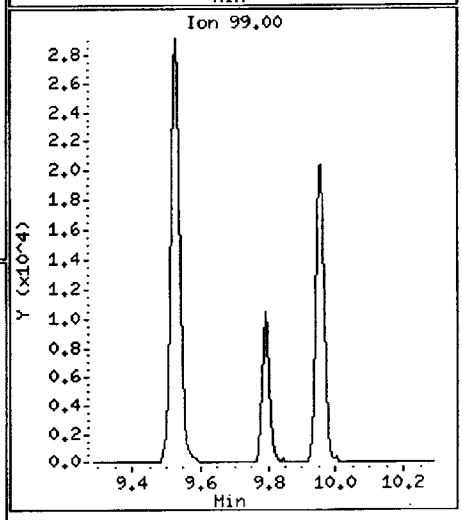












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10210.D

Date : 25-SEP-2002 07:37

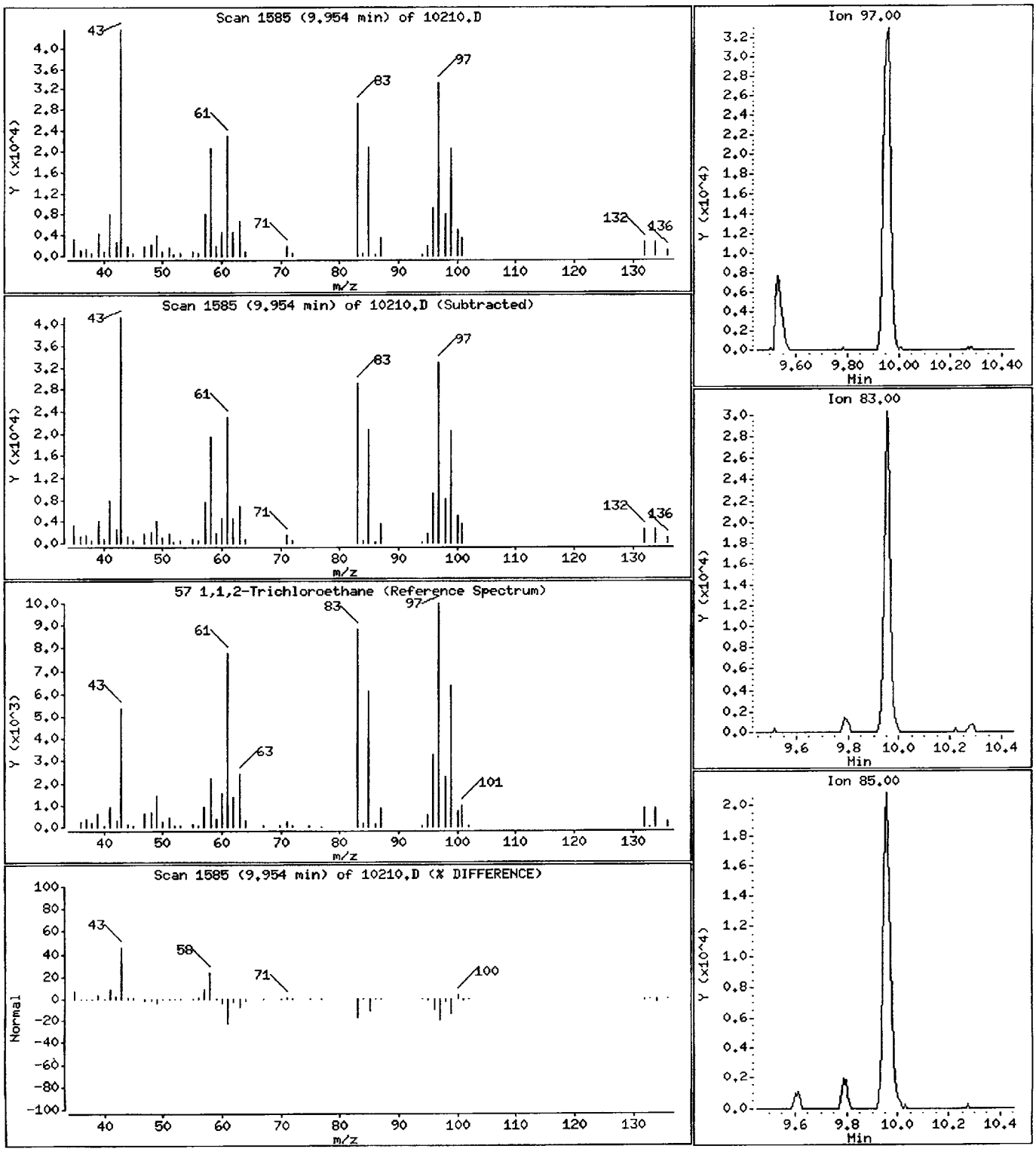
Client ID: 11Q30228MS | Instrument: vms03.i

Sample Info: 220910210;2209102;1;

Purge Volume: 5.0 | Operator:

Column phase: DB-624 | Column diameter: 0.18

57 1,1,2-Trichloroethane | Concentration: 21.7 ug/l



Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10210.D

Date : 25-SEP-2002 07:37

Client ID: 11Q30228MS

Instrument: vms03.i

Sample Info: 220910210;2209102;1;

Purge Volume: 5.0

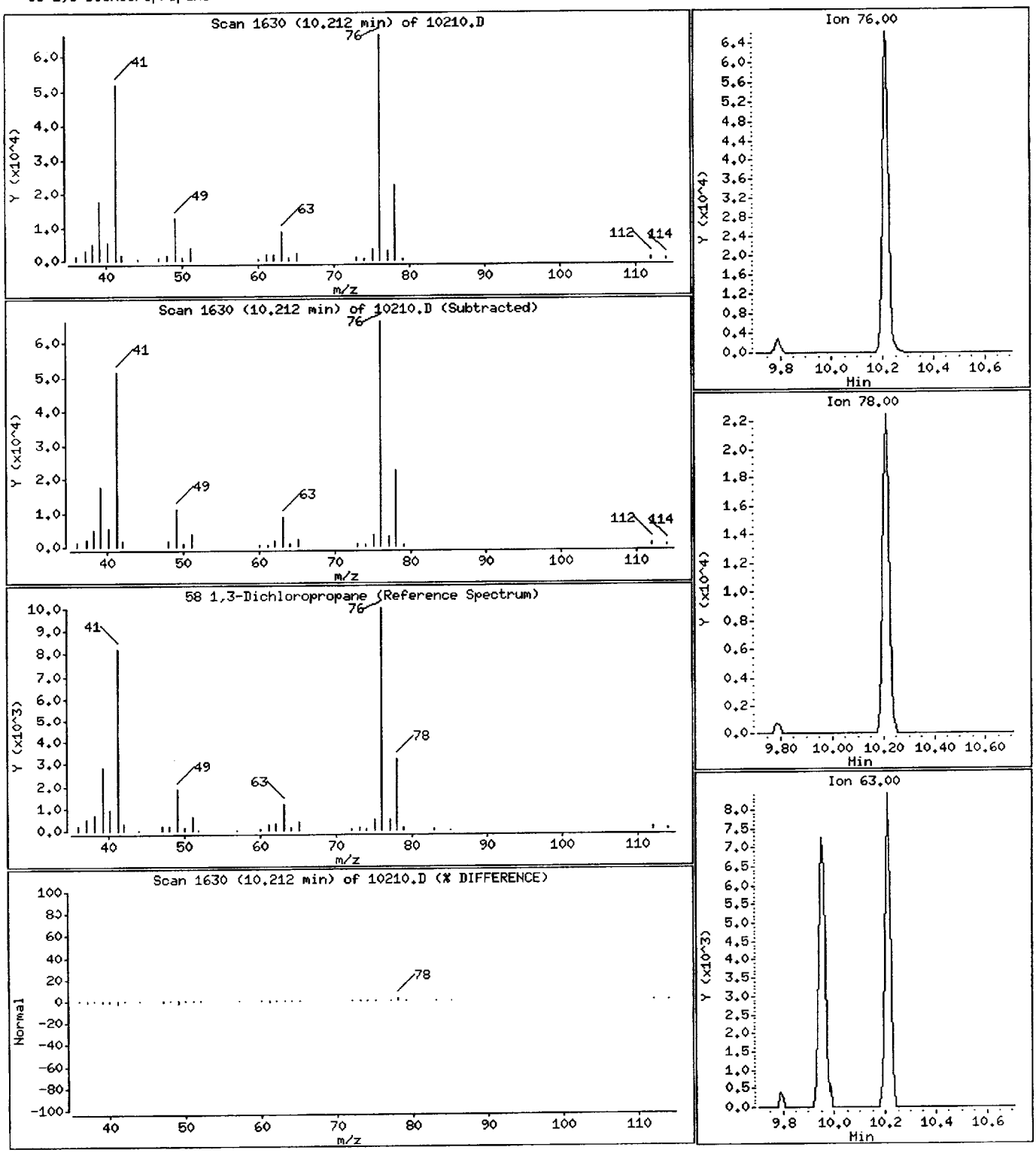
Operator:

Column phase: DB-624

Column diameter: 0.18

58 1,3-Dichloropropane

Concentration: 22.1 ug/l



Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10210.D

Date : 25-SEP-2002 07:37

Client ID: 11Q30228MS

Instrument: vms03.i

Sample Info: 220910210;2209102;1;

Purge Volume: 5.0

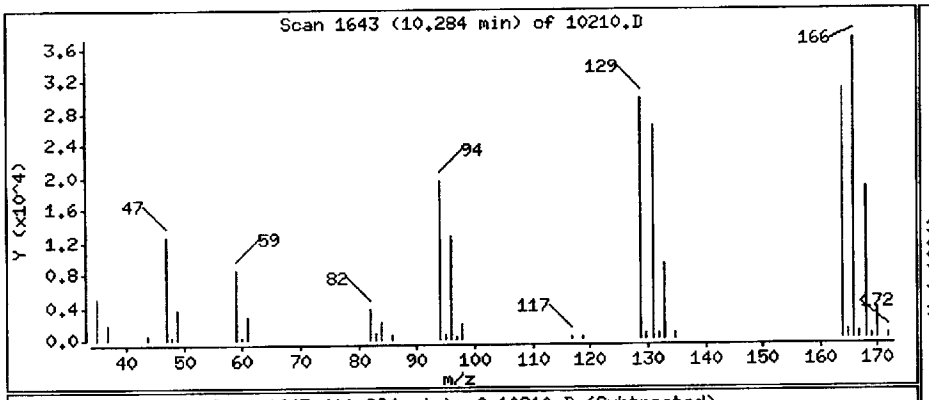
Operator:

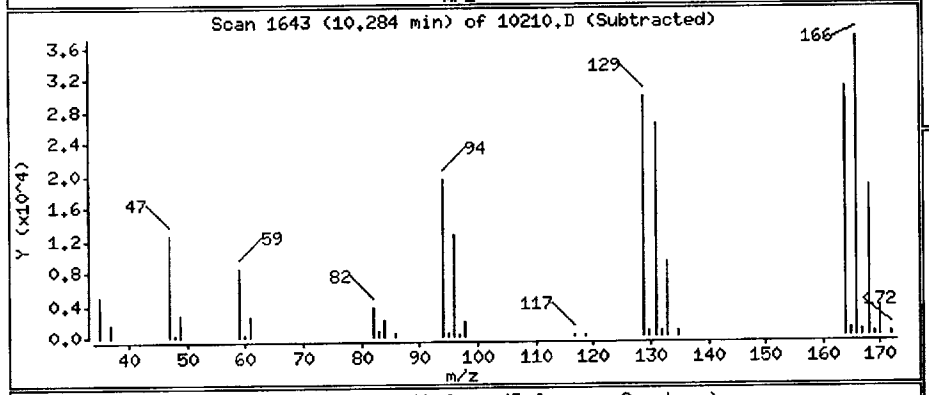
Column phase: DB-624

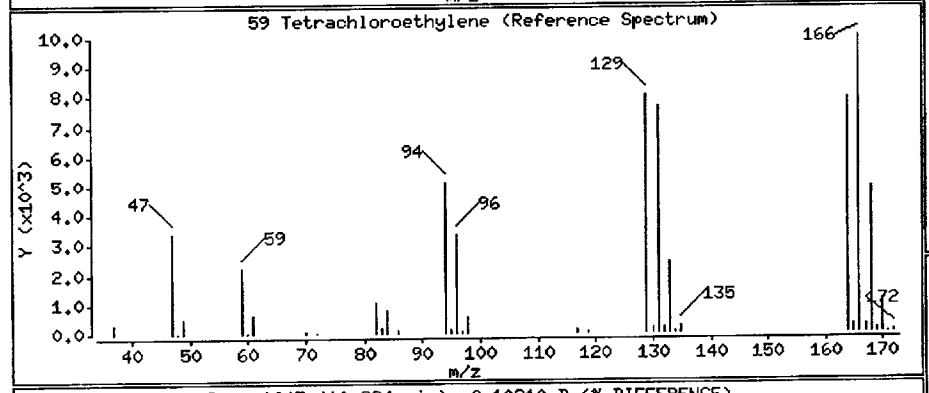
Column diameter: 0.18

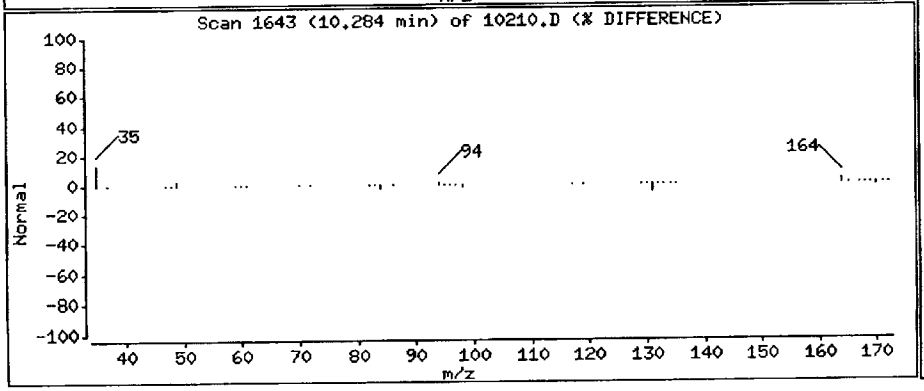
59 Tetrachloroethylene

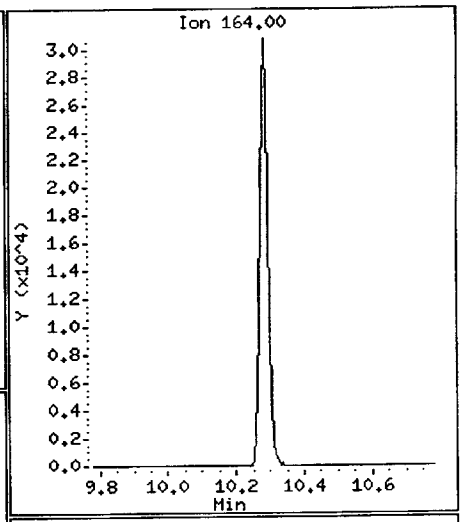
Concentration: 22.9 ug/l

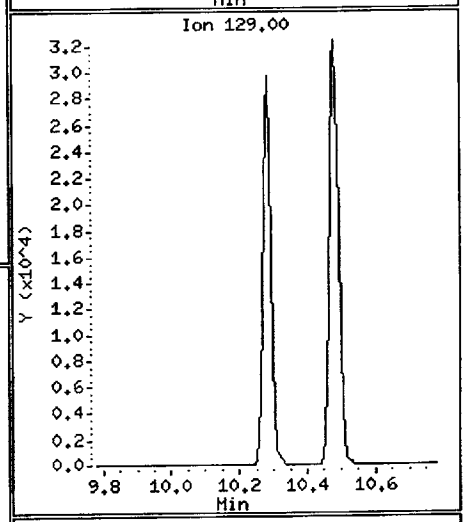


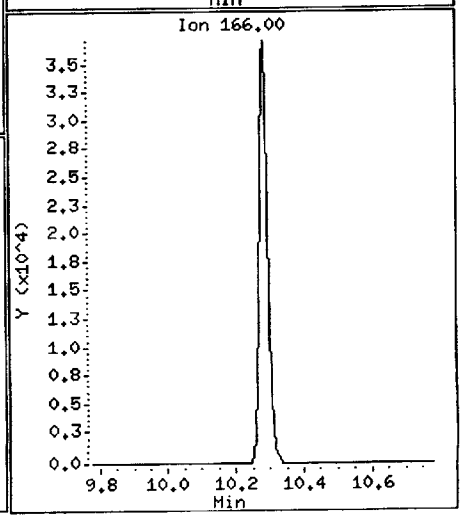












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10210.D

Date : 25-SEP-2002 07:37

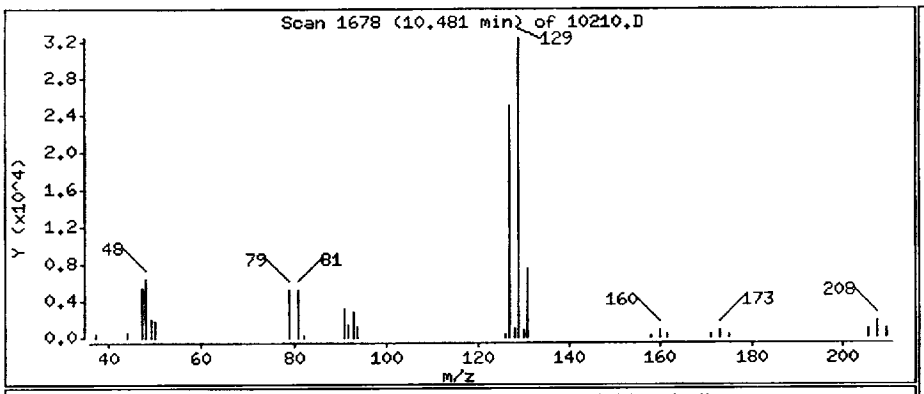
Client ID: 11Q30228MS | Instrument: vms03.i

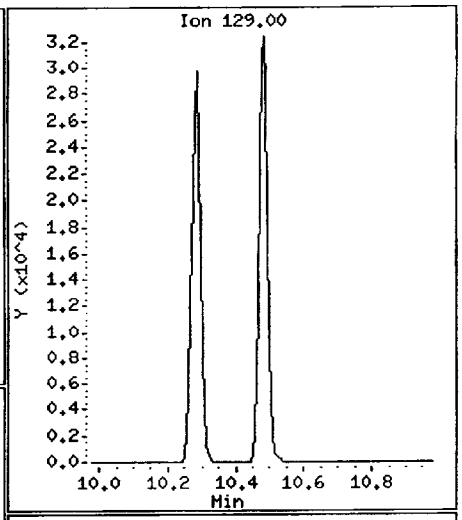
Sample Info: 220910210;2209102;1;

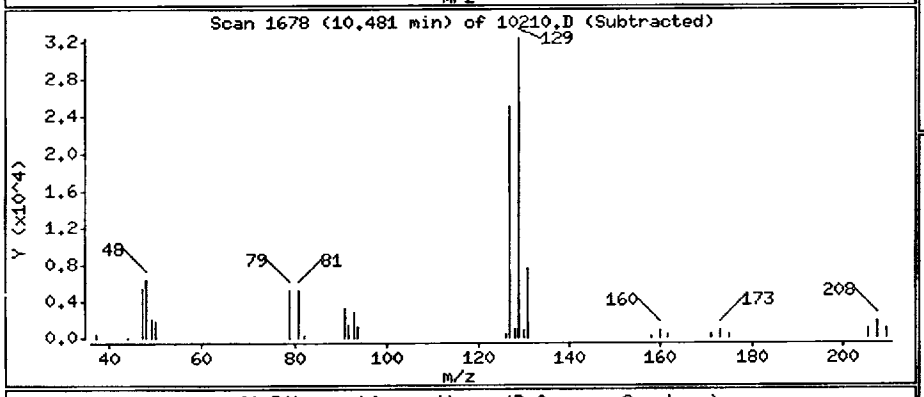
Purge Volume: 5.0 | Operator:

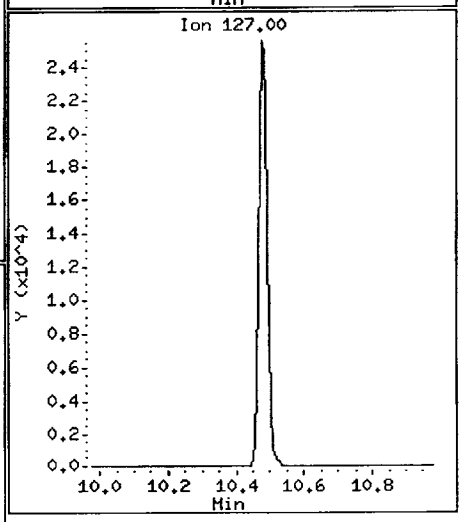
Column phase: DB-624 | Column diameter: 0.18

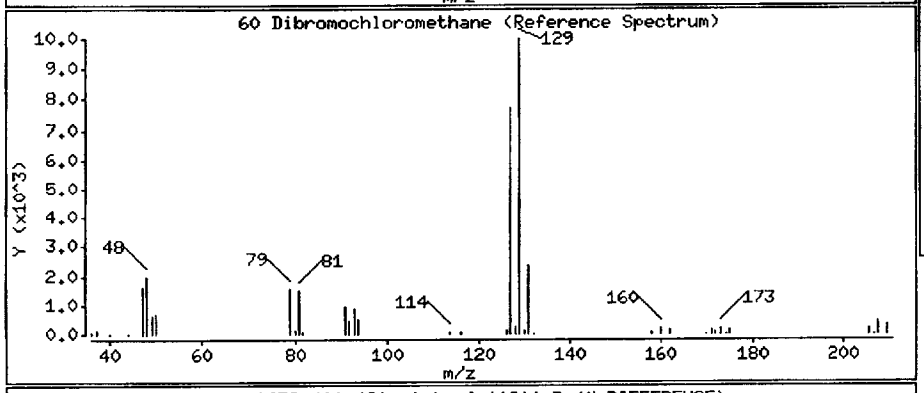
60 Dibromochloromethane | Concentration: 22.0 ug/l

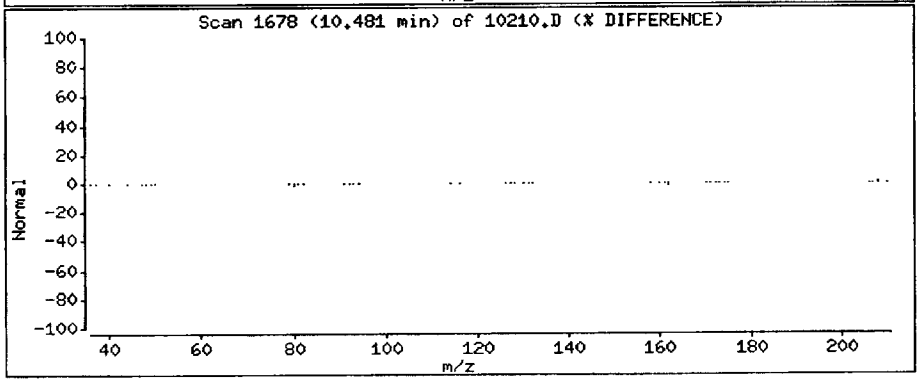












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10210.D

Date : 25-SEP-2002 07:37

Client ID: 11Q30228MS

Instrument: vms03.i

Sample Info: 220910210;2209102;1;

Purge Volume: 5.0

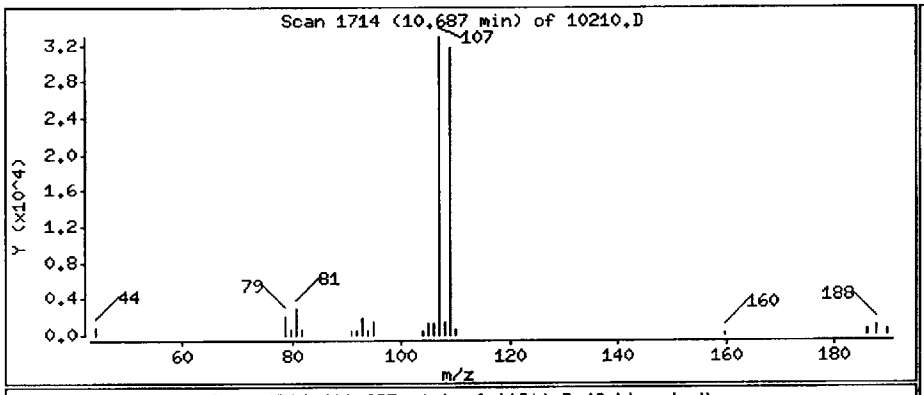
Operator:

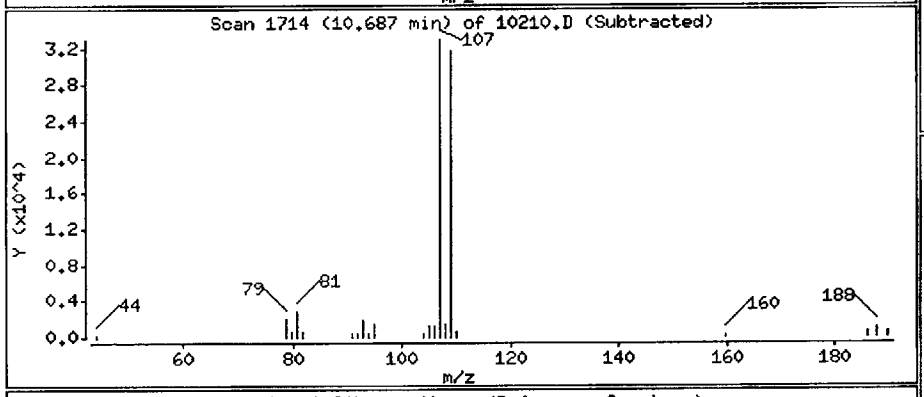
Column phase: DB-624

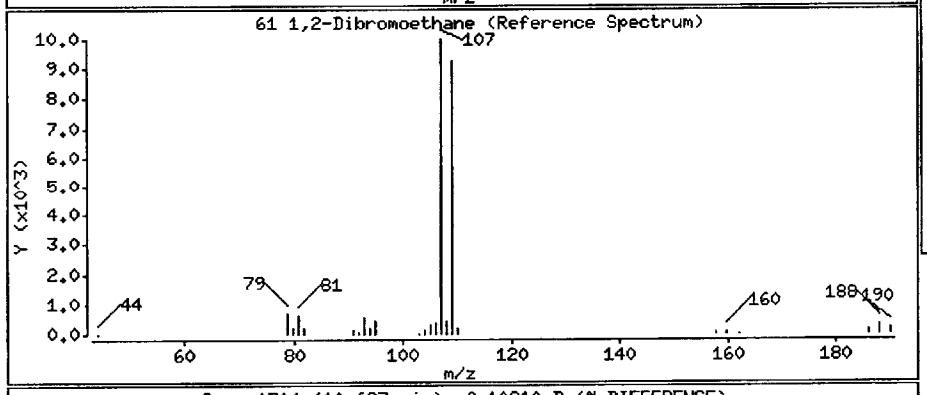
Column diameter: 0.18

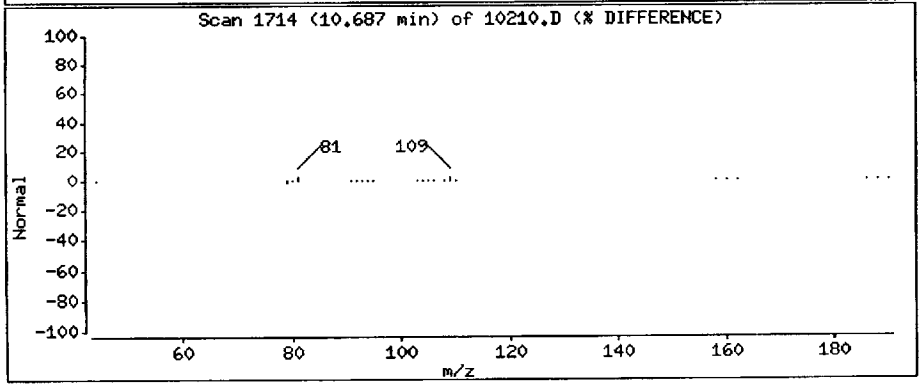
61 1,2-Dibromoethane

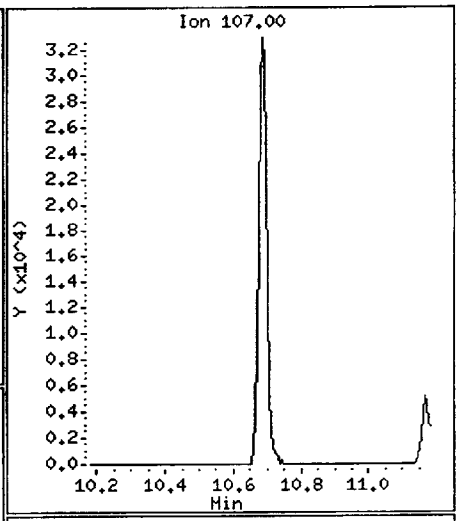
Concentration: 21.9 ug/l

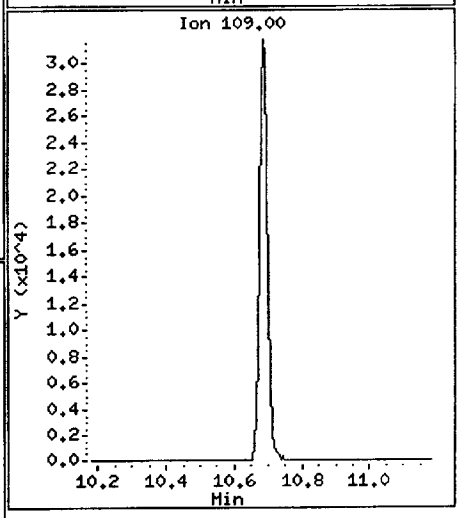












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10210.D

Date : 25-SEP-2002 07:37

Client ID: 11Q30228MS

Instrument: vms03.i

Sample Info: 220910210;2209102;1;

Purge Volume: 5.0

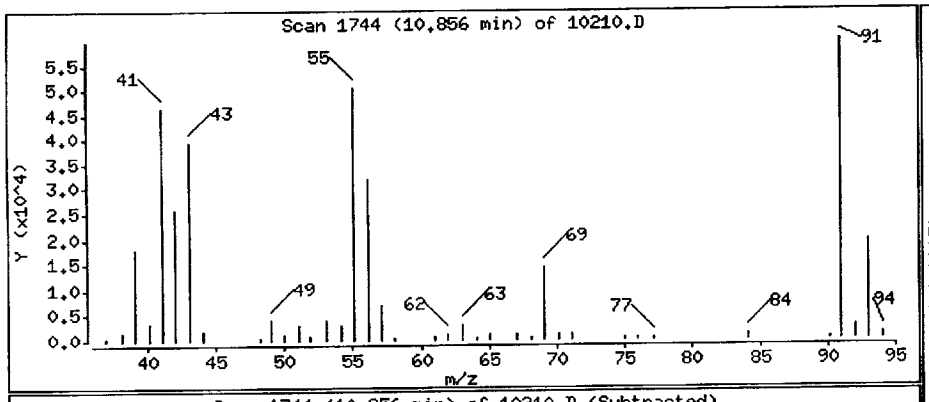
Operator:

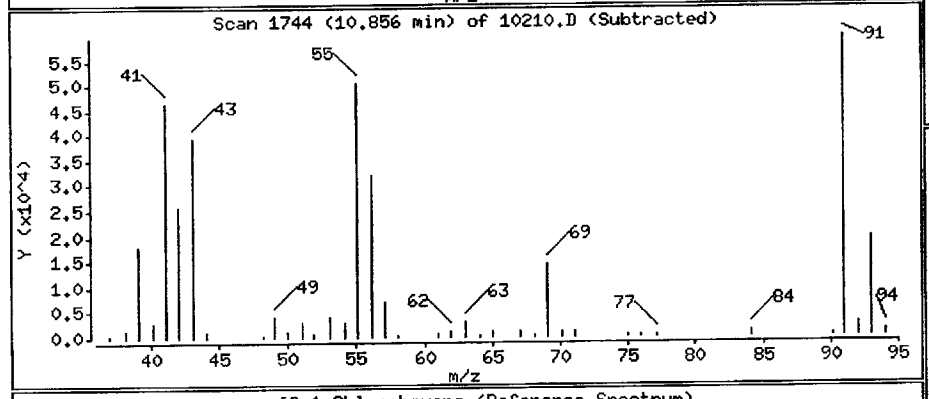
Column phase: DB-624

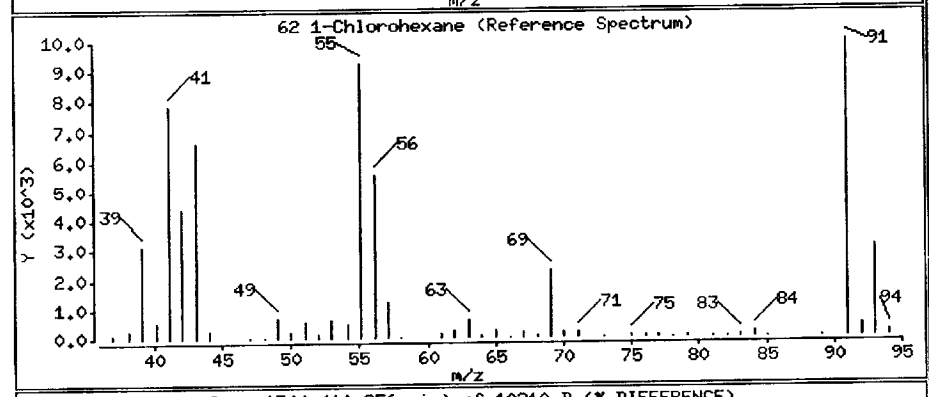
Column diameter: 0.18

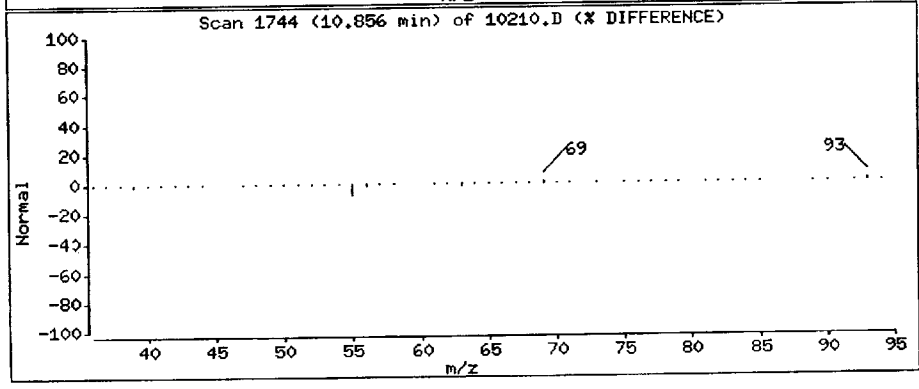
62 1-Chlorohexane

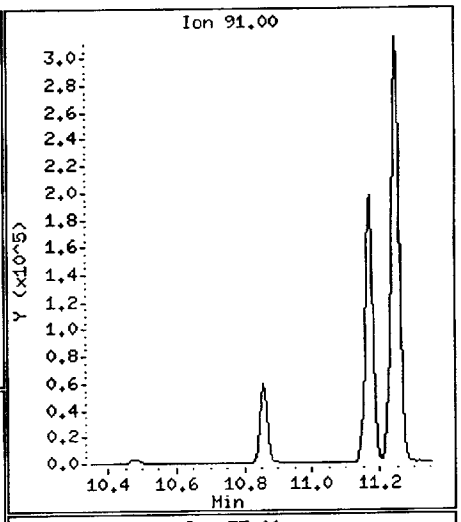
Concentration: 23.7 ug/l

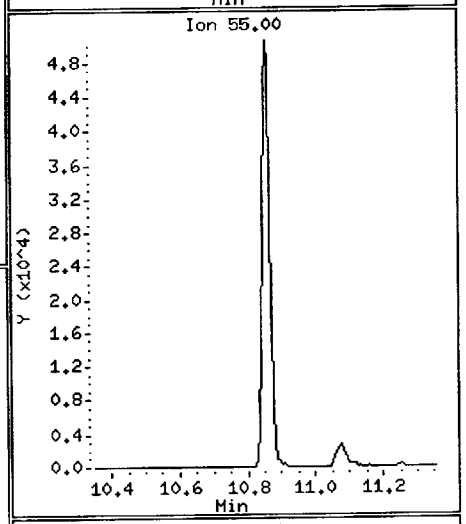


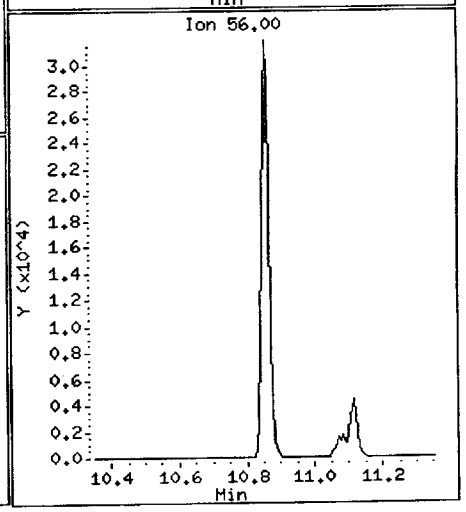












Data File: \\Vms03\dd\chem\vms03.i\H3092502.b\10210.D

Date : 25-SEP-2002 07:37

Client ID: 11Q30228MS

Instrument: vms03.i

Sample Info: 220910210;2209102;1;

Purge Volume: 5.0

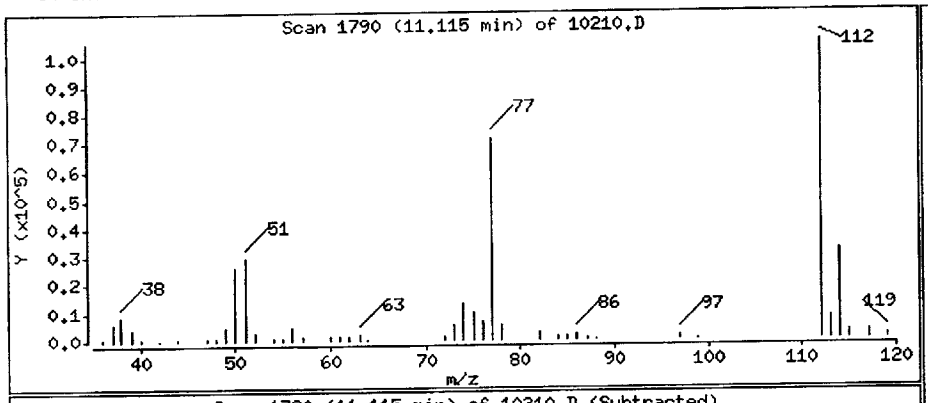
Operator:

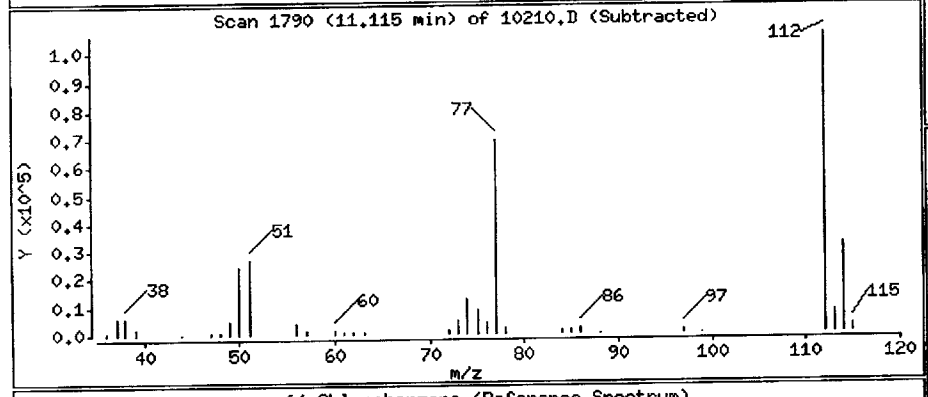
Column phase: DB-624

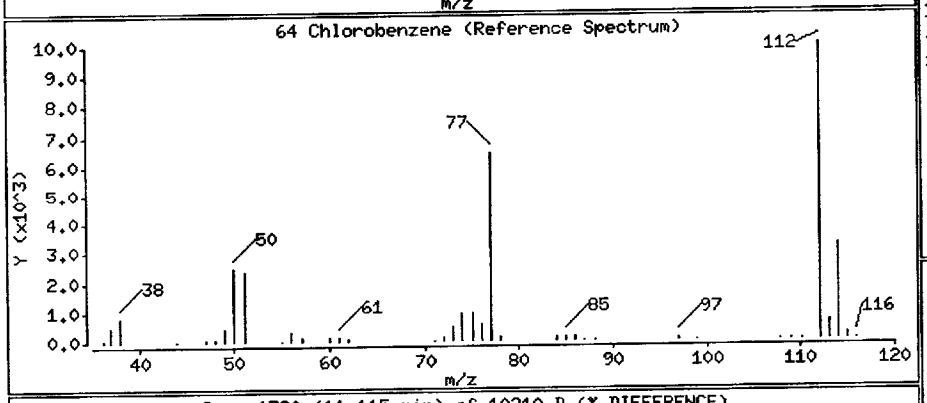
Column diameter: 0.18

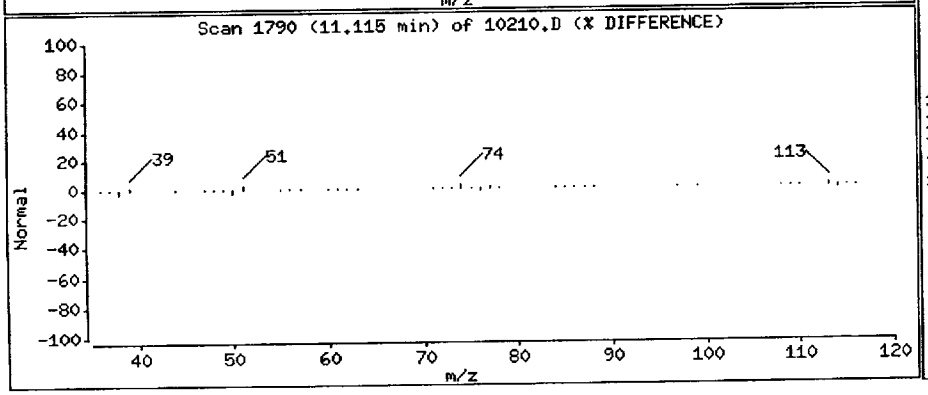
64 Chlorobenzene

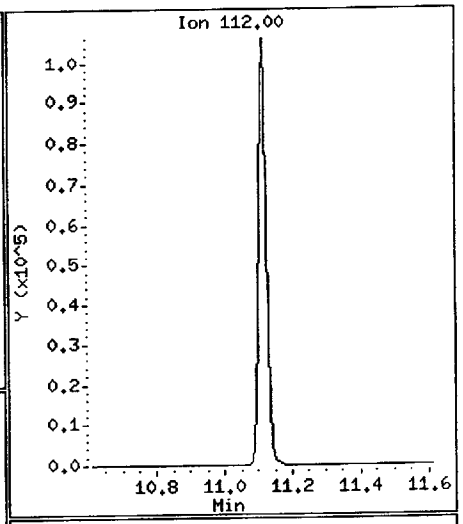
Concentration: 22.3 ug/l

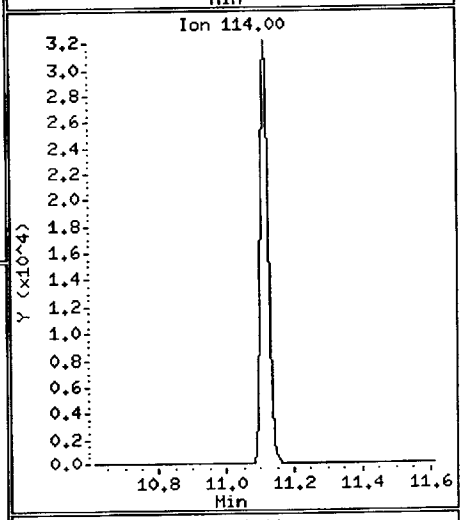


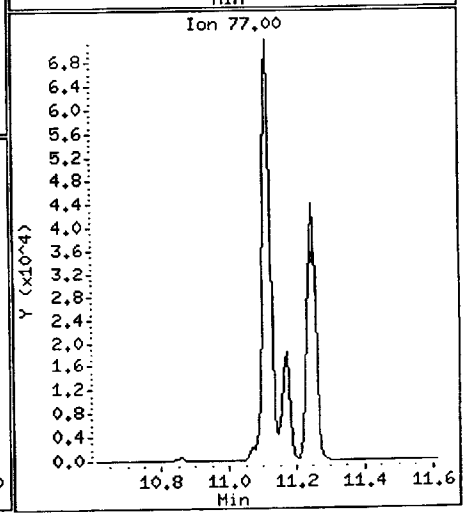












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10210.D

Date : 25-SEP-2002 07:37

Client ID: 11Q30228MS

Instrument: vms03.i

Sample Info: 220910210;2209102;1;

Purge Volume: 5.0

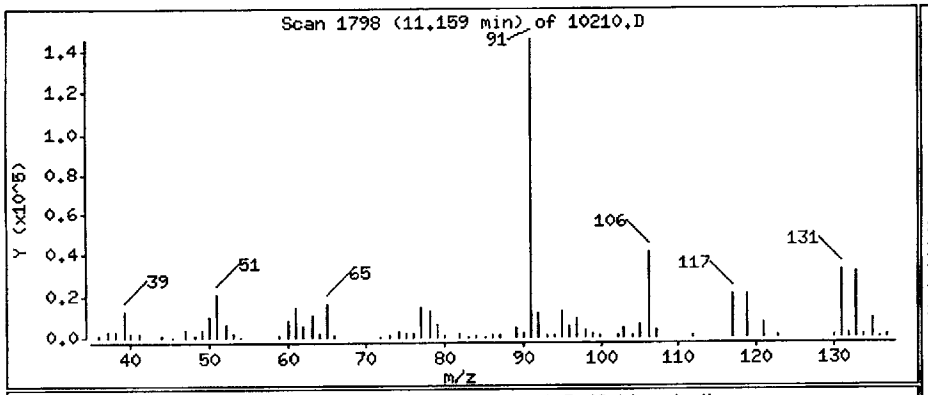
Operator:

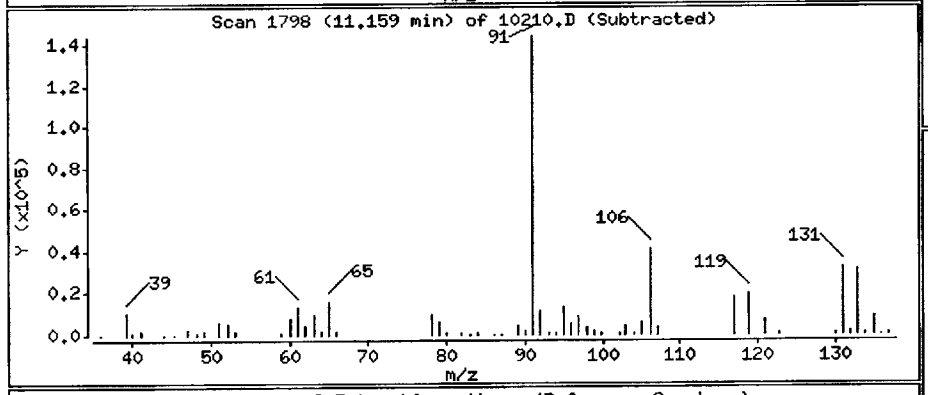
Column phase: DB-624

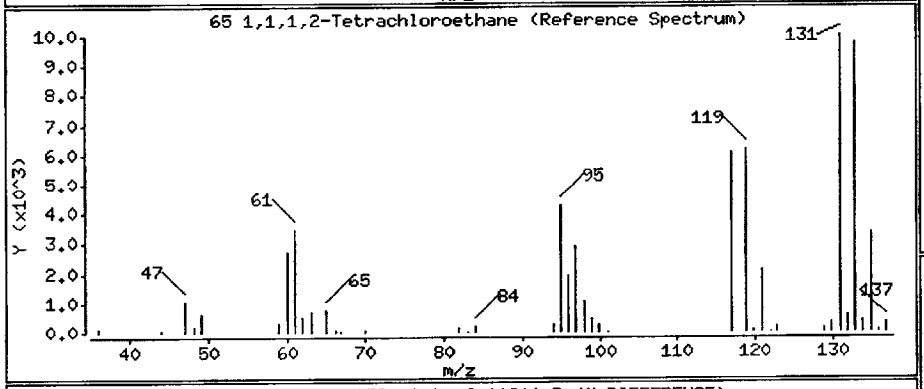
Column diameter: 0.18

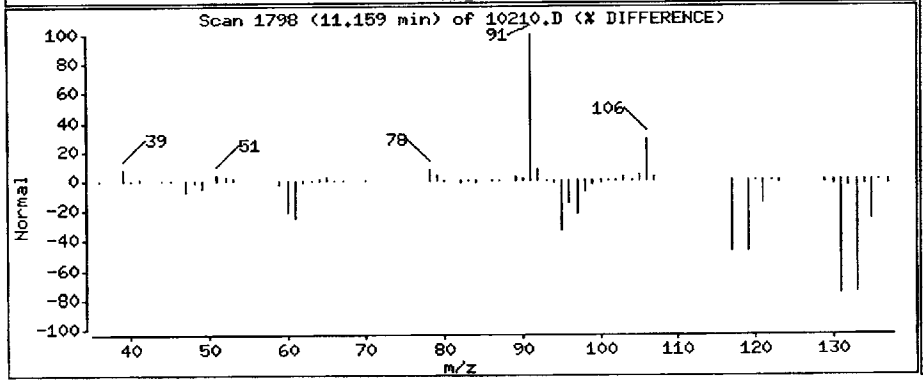
65 1,1,1,2-Tetrachloroethane

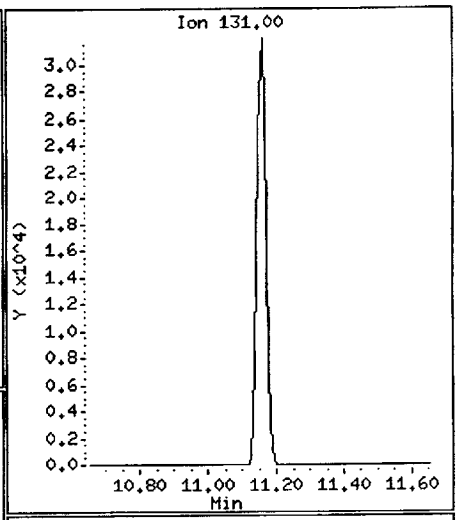
Concentration: 22.4 ug/l

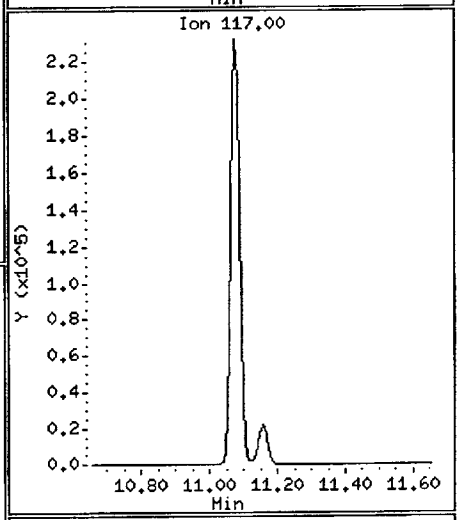


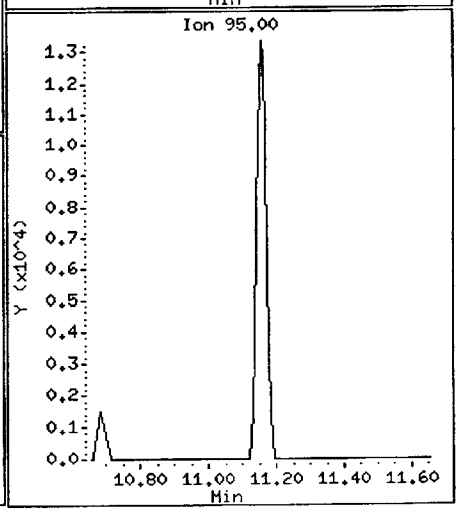












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10210.D

Date : 25-SEP-2002 07:37

Client ID: 11Q30228MS

Instrument: vms03.i

Sample Info: 220910210;2209102;1;

Purge Volume: 5.0

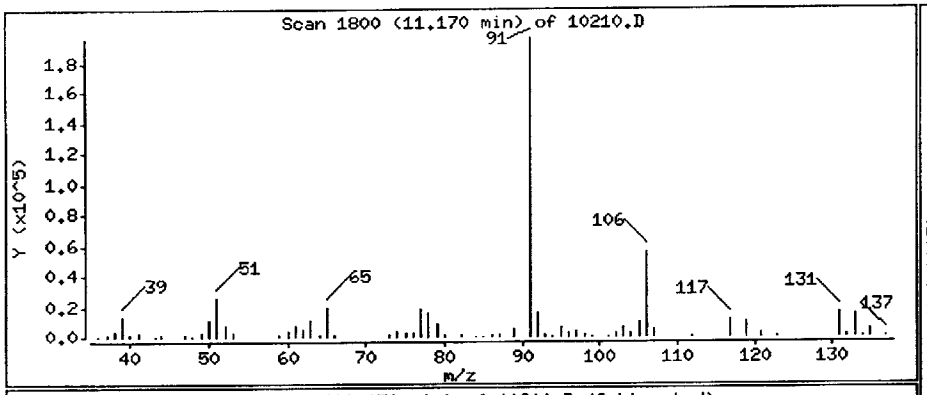
Operator:

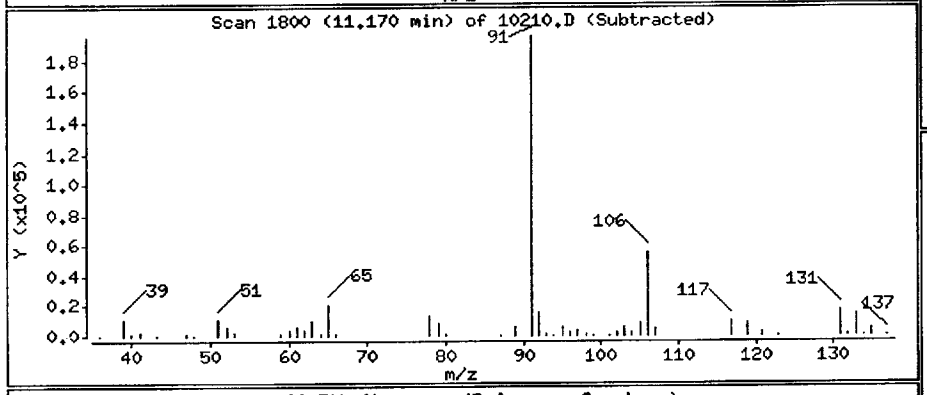
Column phase: DB-624

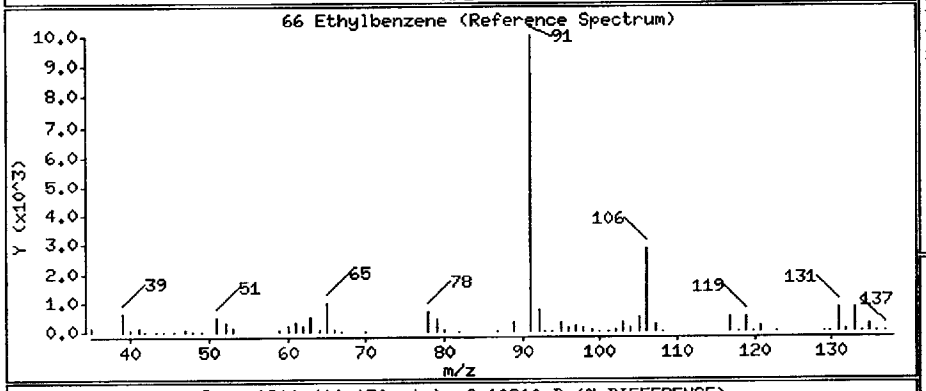
Column diameter: 0.18

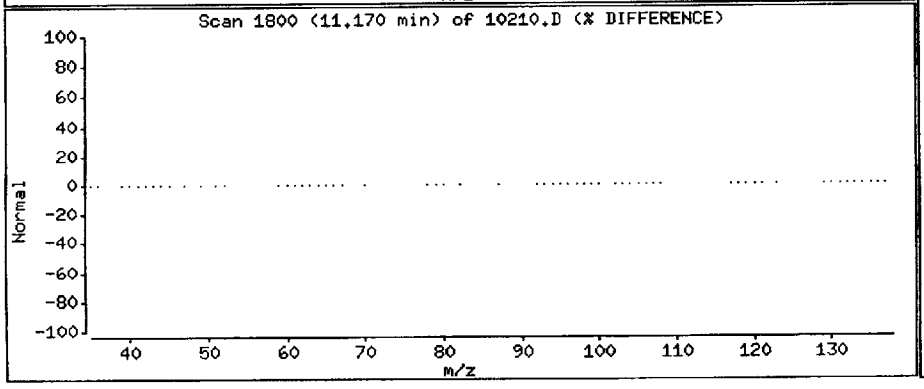
66 Ethylbenzene

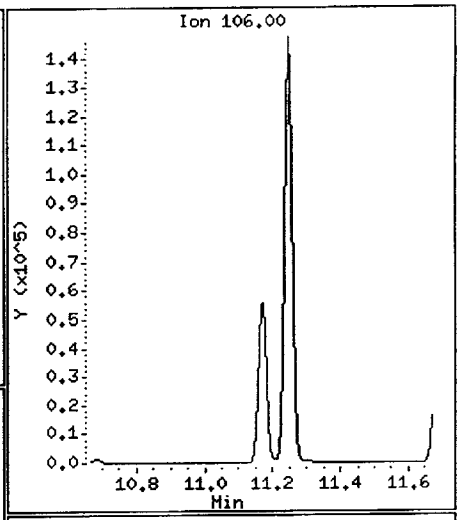
Concentration: 22.5 ug/l

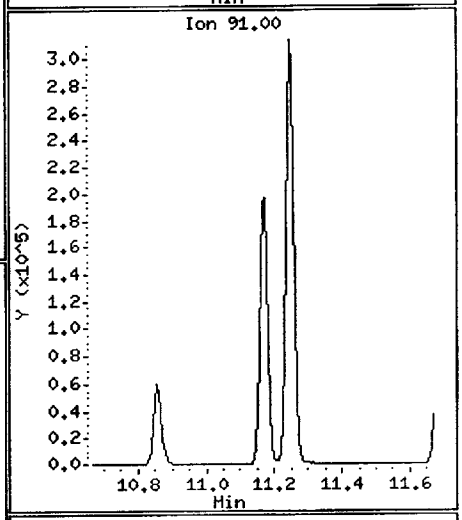


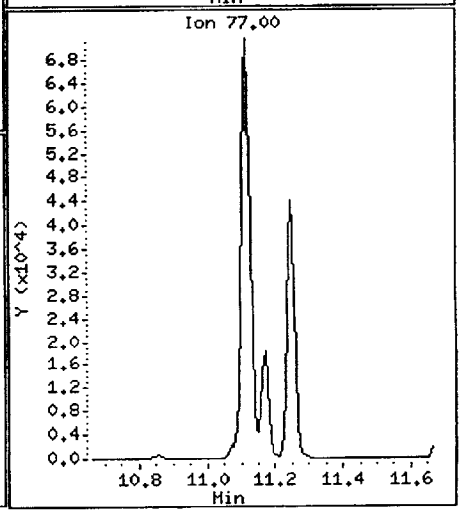












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10210.D

Date : 25-SEP-2002 07:37

Client ID: 11Q30228MS

Instrument: vms03.i

Sample Info: 220910210;2209102;1;

Purge Volume: 5.0

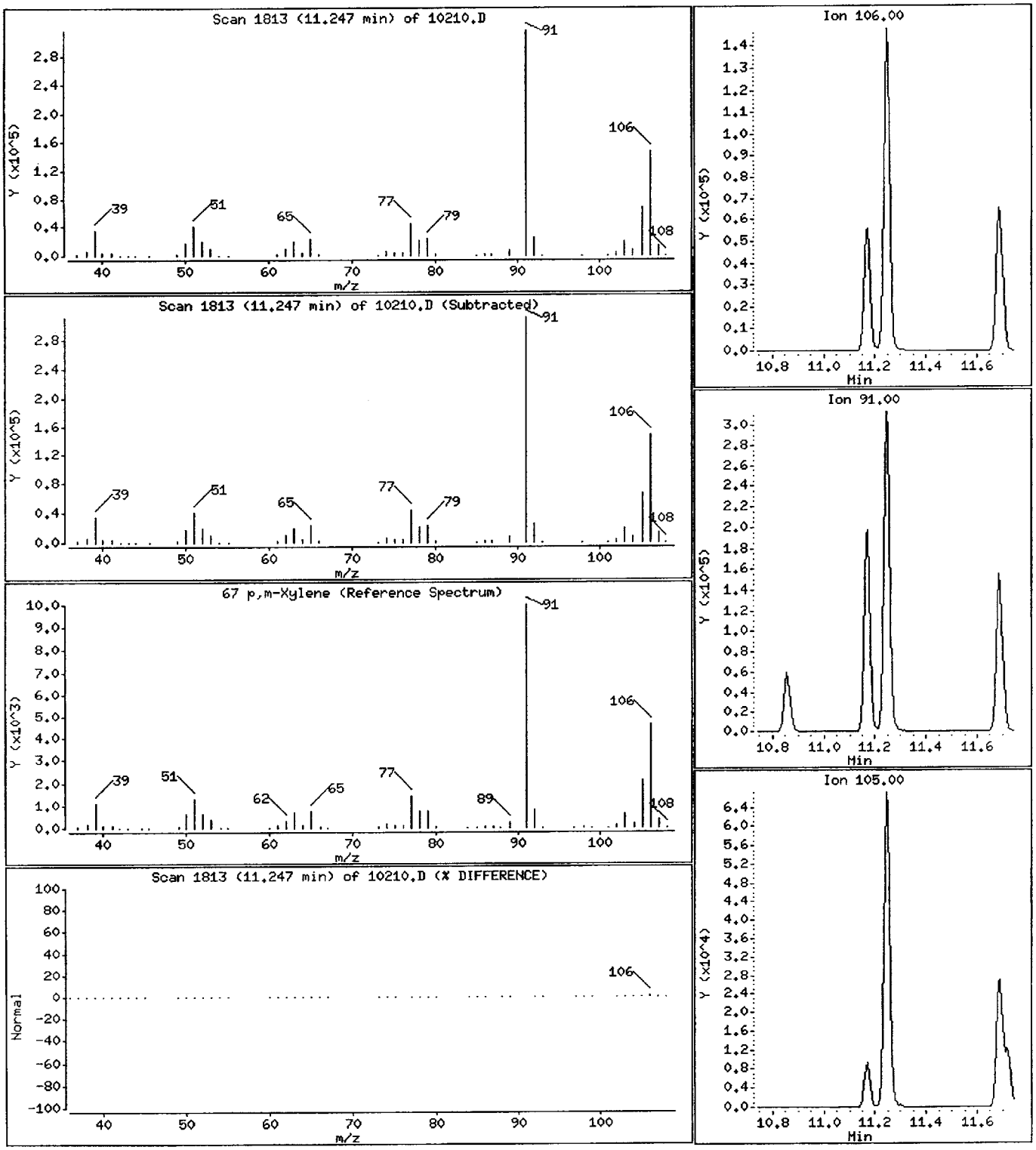
Operator:

Column phase: DB-624

Column diameter: 0.18

67 p,m-Xylene

Concentration: 46.0 ug/l



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Date : 25-SEP-2002 07:37

Client ID: 11Q30228MS

Instrument: vms03.i

Sample Info: 220910210;2209102;1;

Purge Volume: 5.0

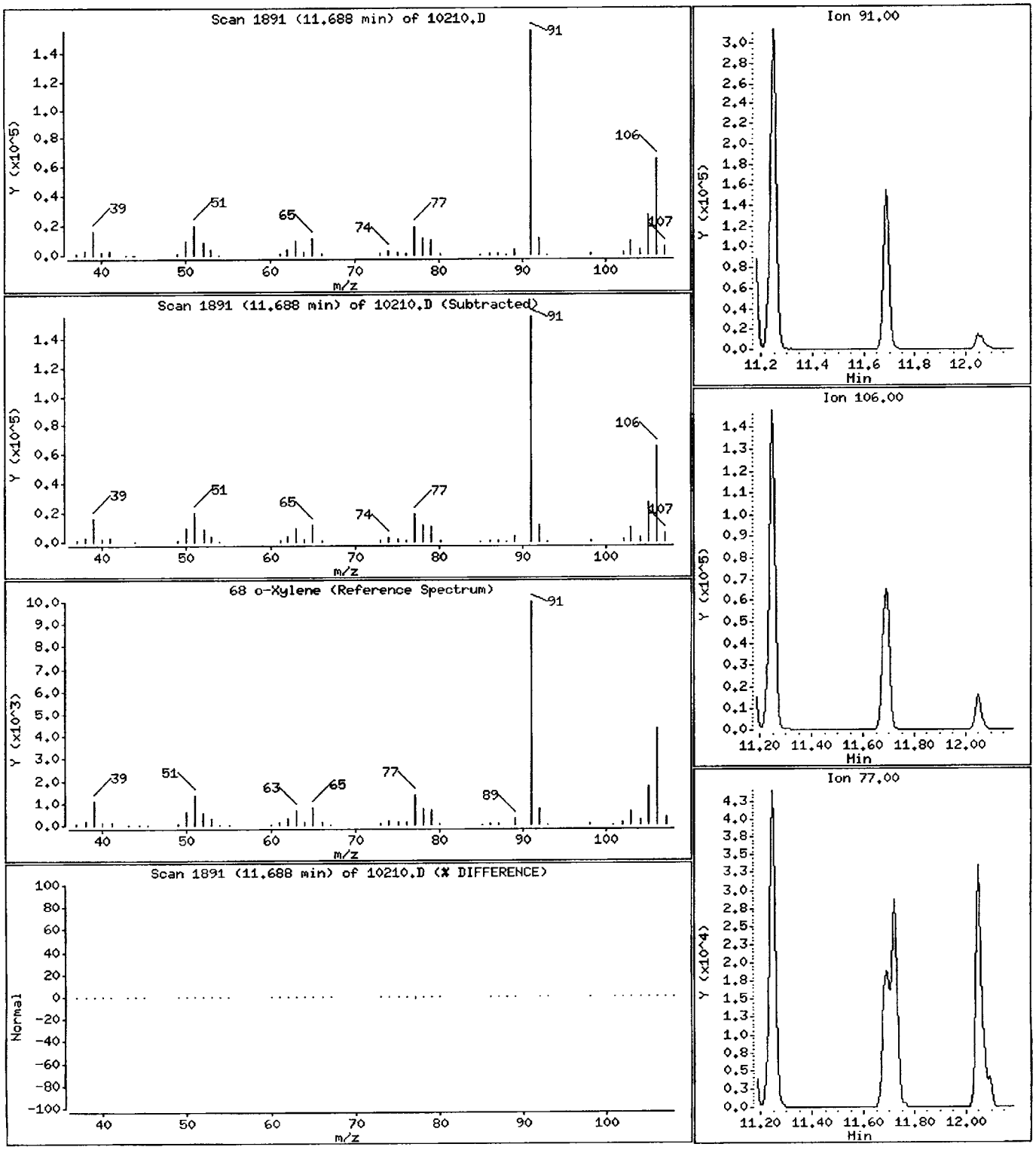
Operator:

Column phase: DB-624

Column diameter: 0.18

68 o-Xylene

Concentration: 22.3 ug/l



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Date : 25-SEP-2002 07:37

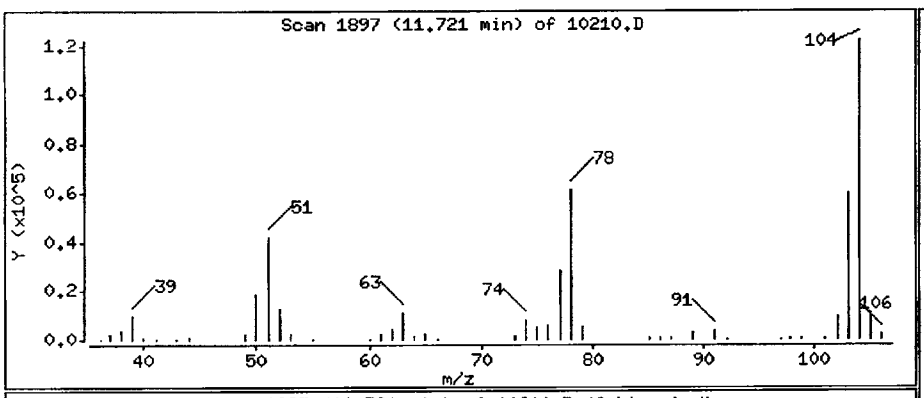
Client ID: 11Q30228MS | Instrument: vms03.i

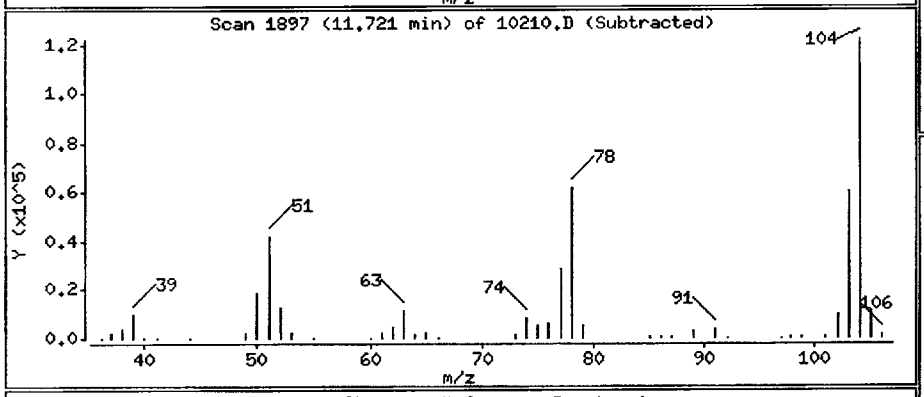
Sample Info: 220910210;2209102;1;

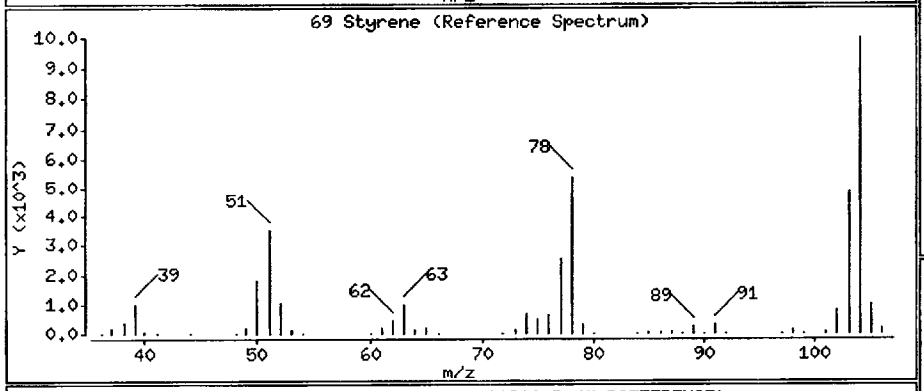
Purge Volume: 5.0 | Operator:

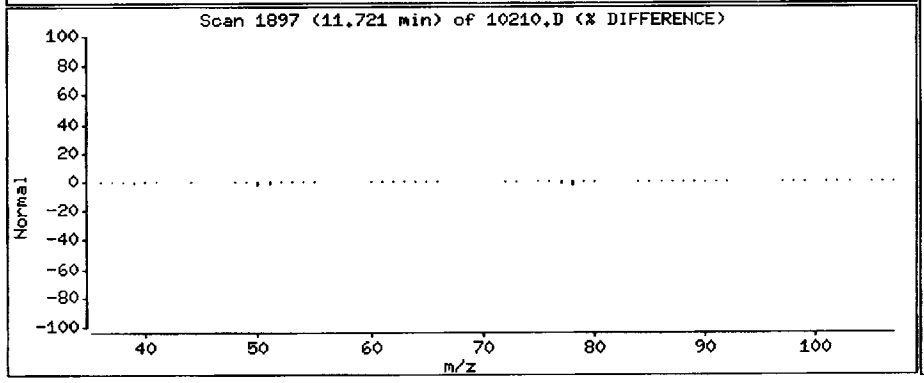
Column phase: DB-624 | Column diameter: 0.18

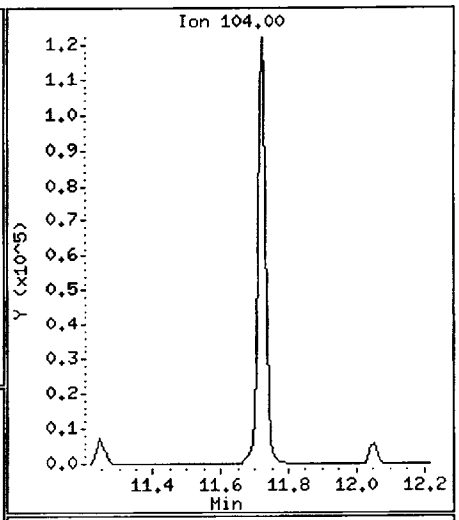
69 Styrene | Concentration: 22.4 ug/l

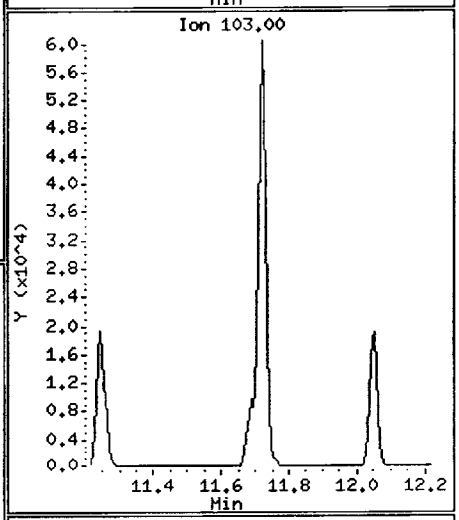


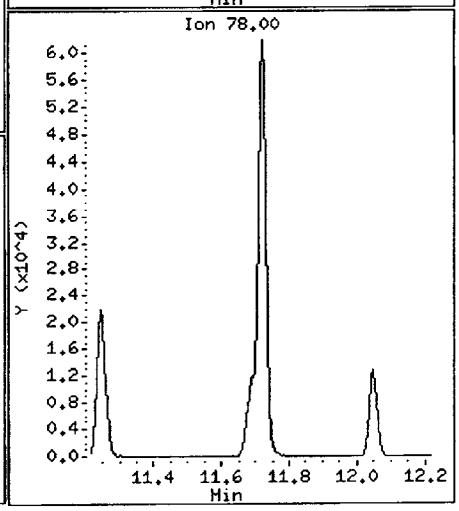












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Date : 25-SEP-2002 07:37

Client ID: 11Q30228MS

Instrument: vms03.i

Sample Info: 220910210;2209102;1;

Purge Volume: 5.0

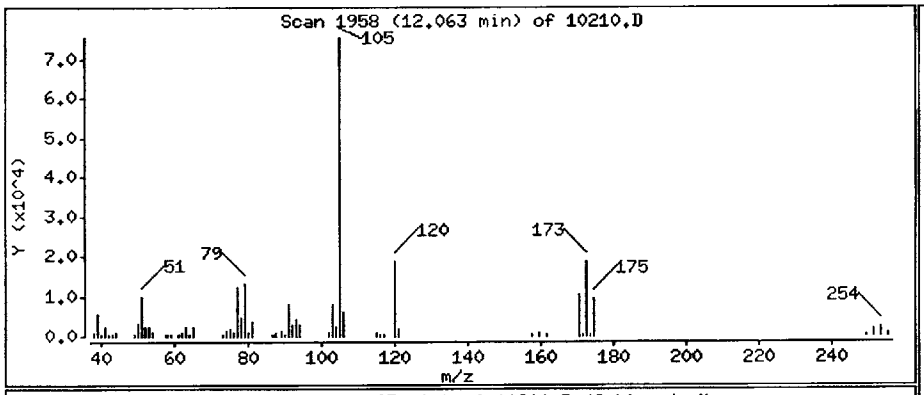
Operator:

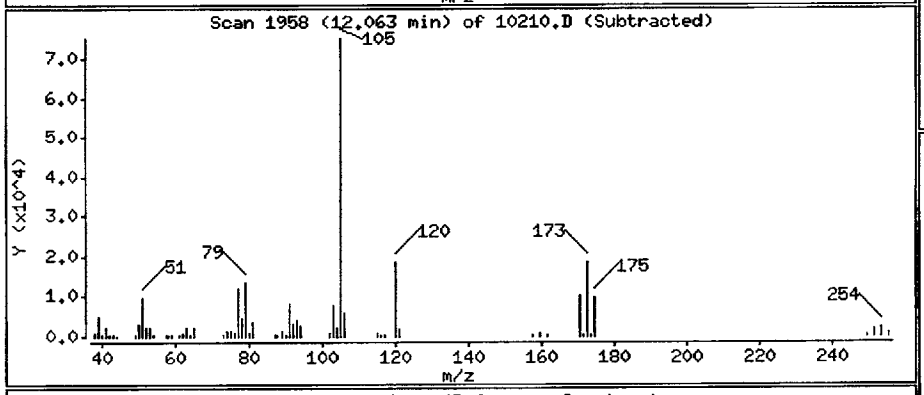
Column phase: DB-624

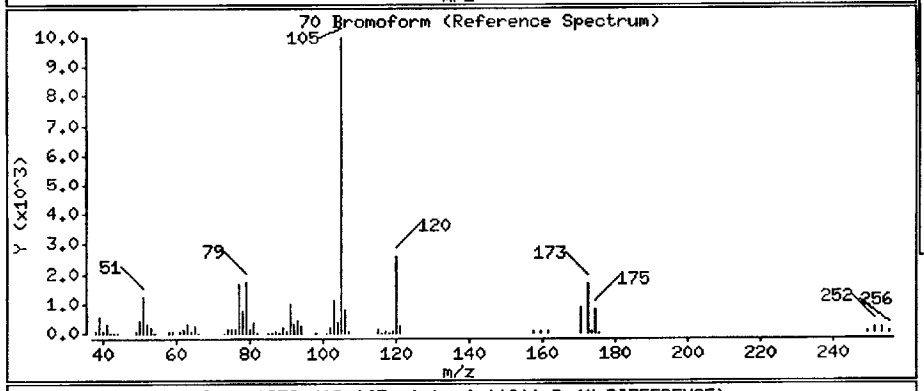
Column diameter: 0.18

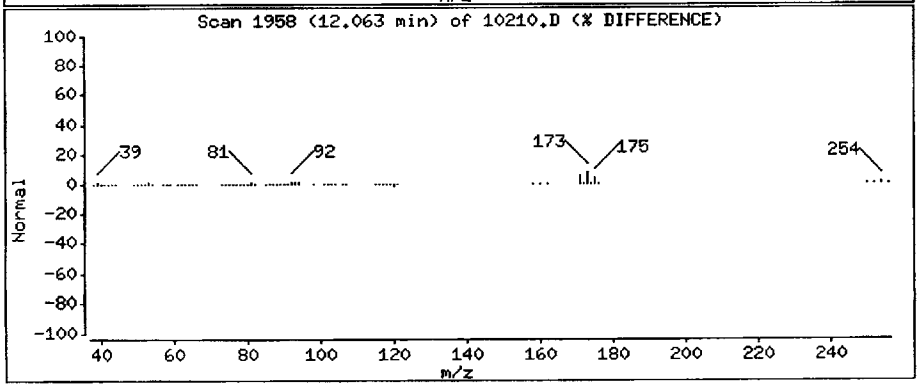
70 Bromoform

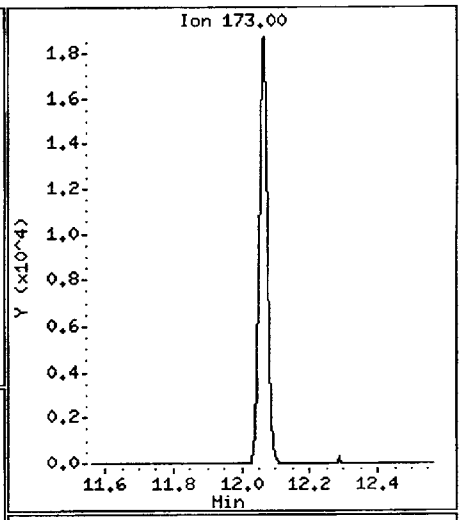
Concentration: 19.5 ug/l

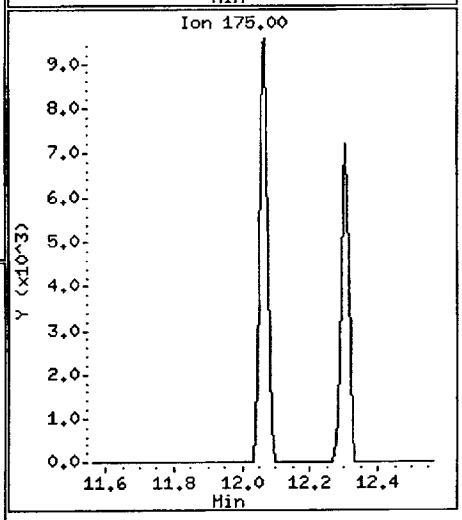












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Date : 25-SEP-2002 07:37

Client ID: 11Q30228MS

Instrument: vms03.i

Sample Info: 220910210;2209102;1;

Purge Volume: 5.0

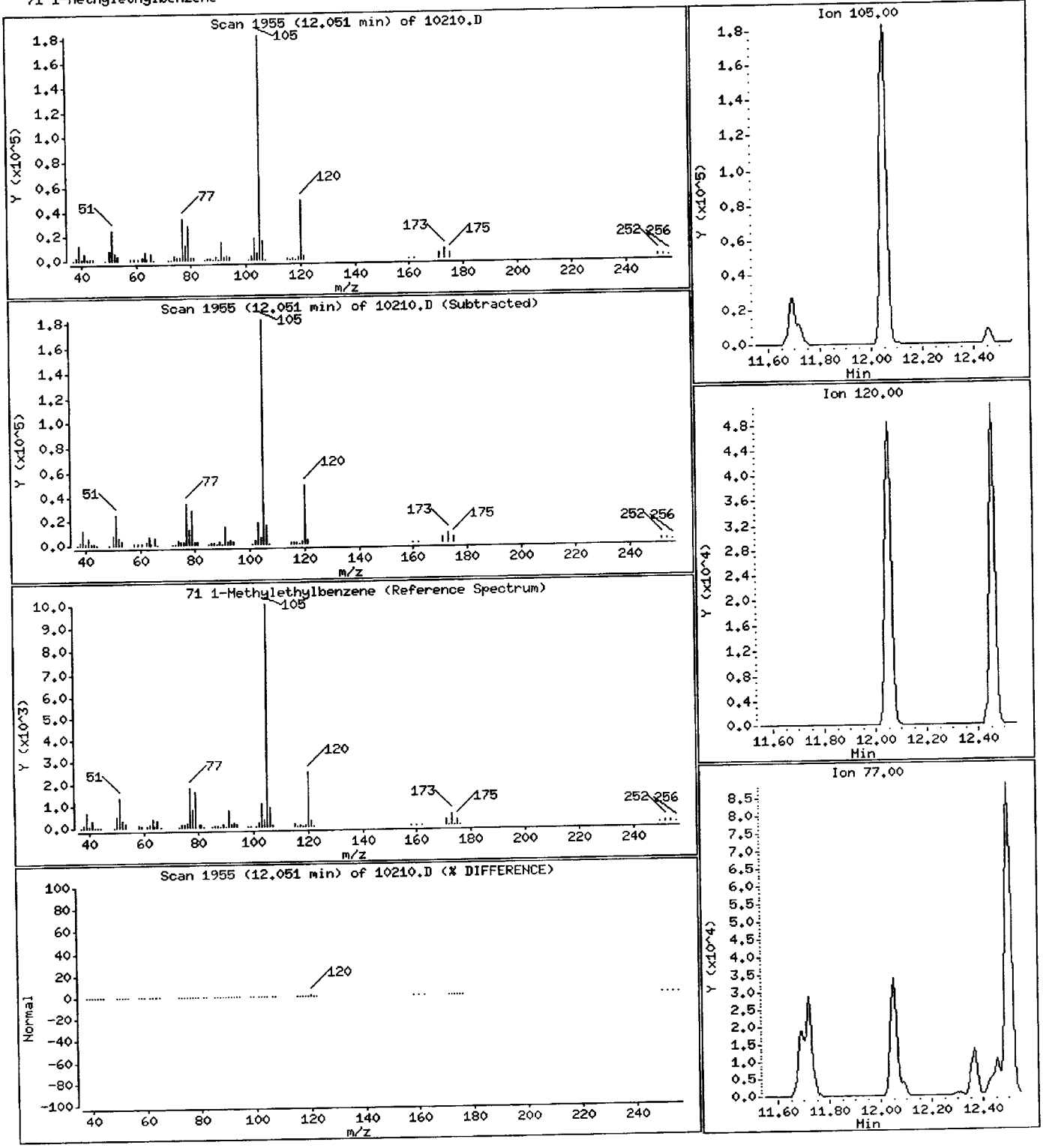
Operator:

Column phase: DB-624

Column diameter: 0.18

71 1-Methylethylbenzene

Concentration: 22.9 ug/l



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Date : 25-SEP-2002 07:37

Client ID: 11Q30228MS

Instrument: vms03.i

Sample Info: 220910210;2209102;1;

Purge Volume: 5.0

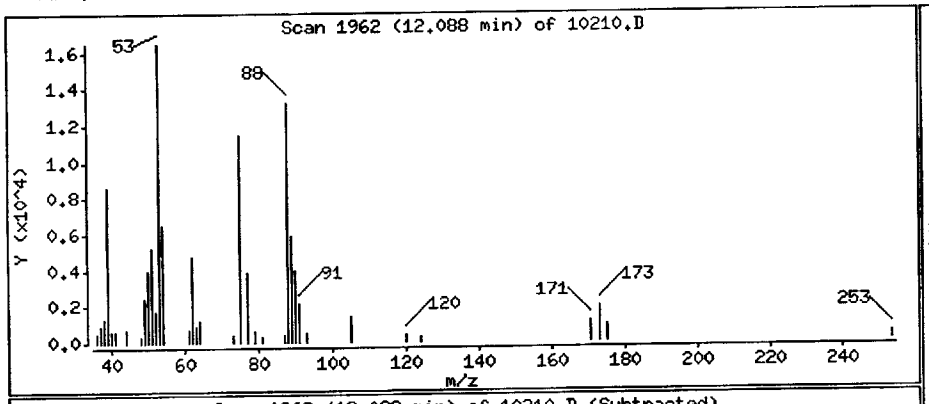
Operator:

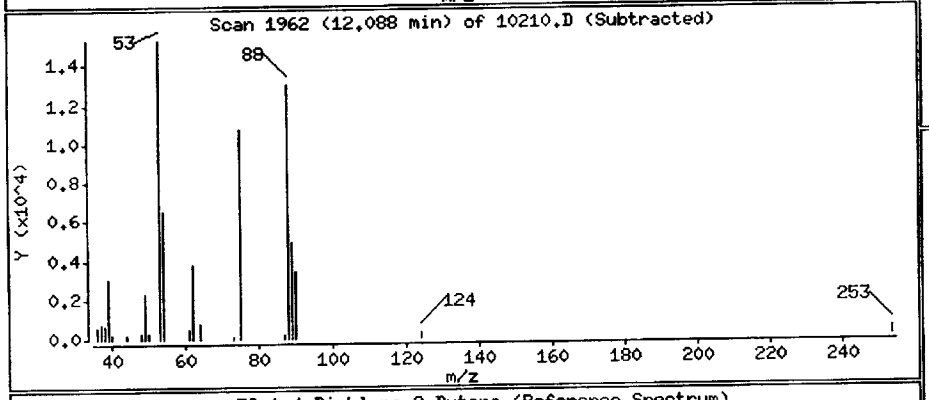
Column phase: DB-624

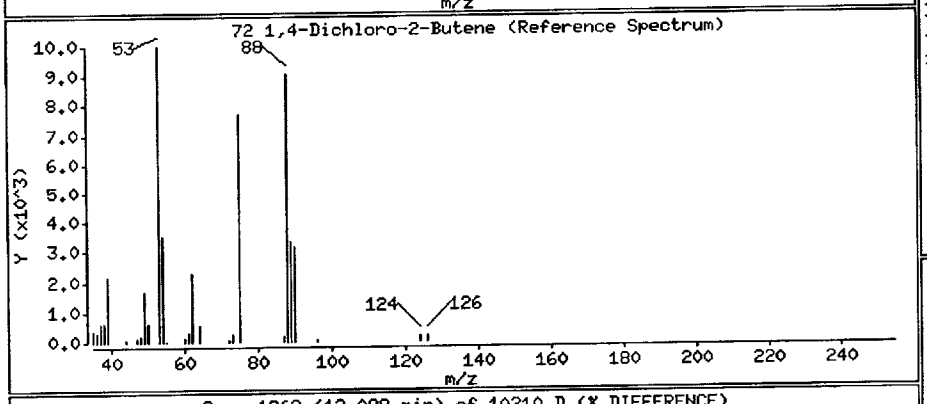
Column diameter: 0.18

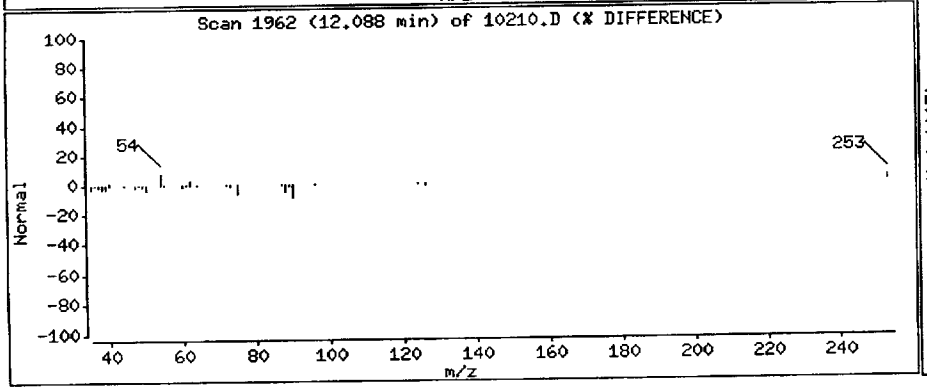
72 1,4-Dichloro-2-Butene

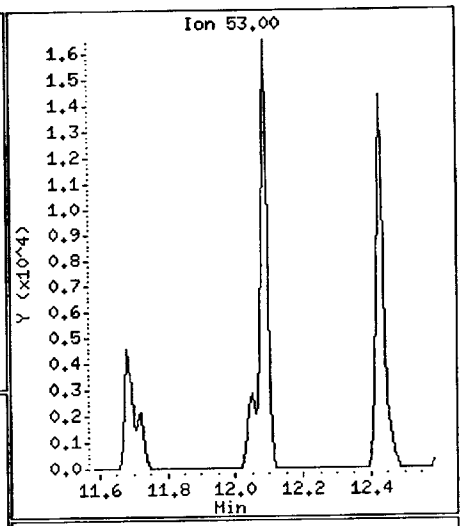
Concentration: 41.9 ug/l

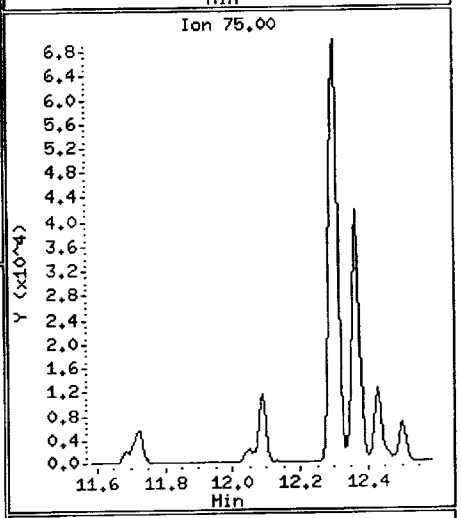


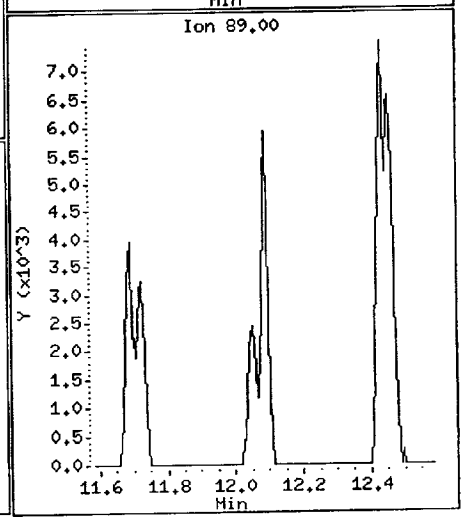












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10210.D

Date : 25-SEP-2002 07:37

Client ID: 11Q30228MS

Instrument: vms03.i

Sample Info: 220910210;2209102;1;

Purge Volume: 5.0

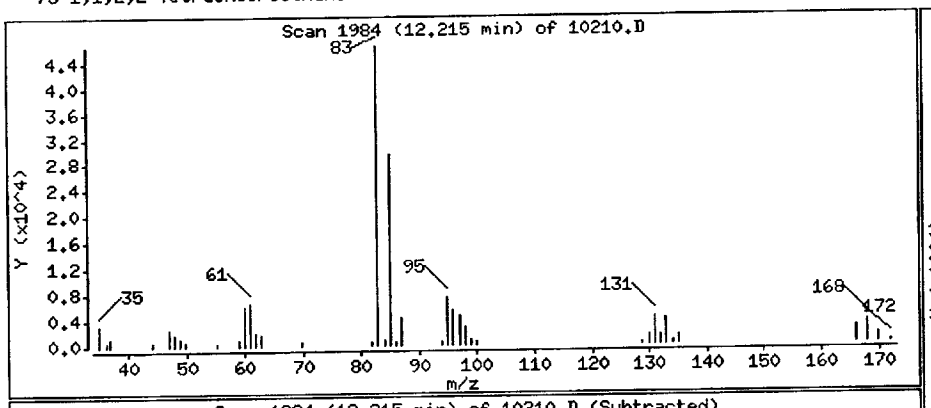
Operator:

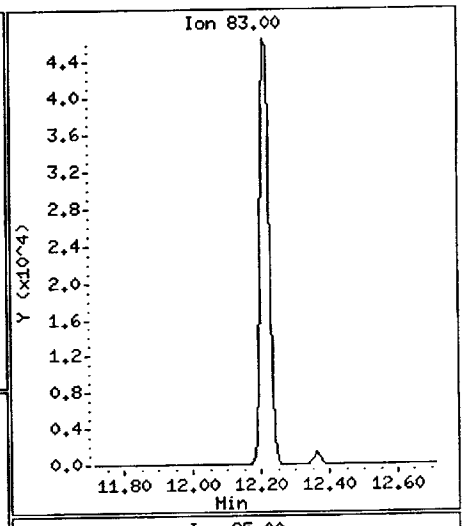
Column phase: DB-624

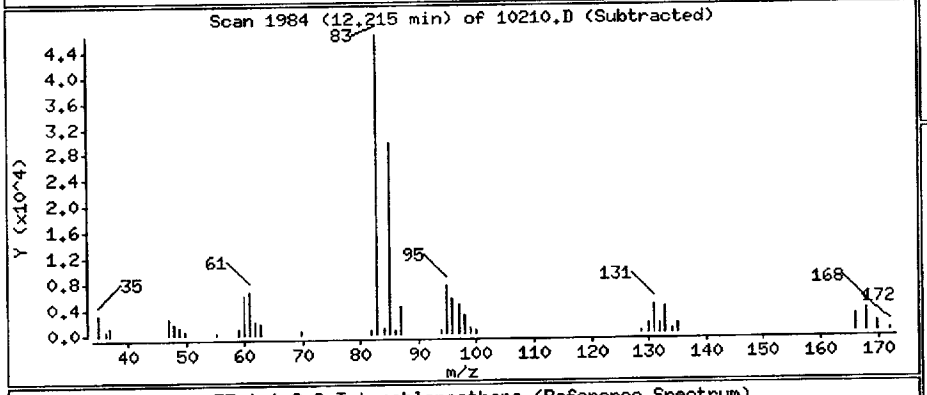
Column diameter: 0.18

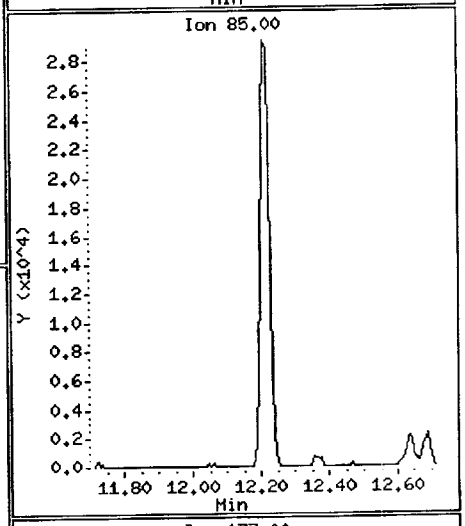
73 1,1,2,2-Tetrachloroethane

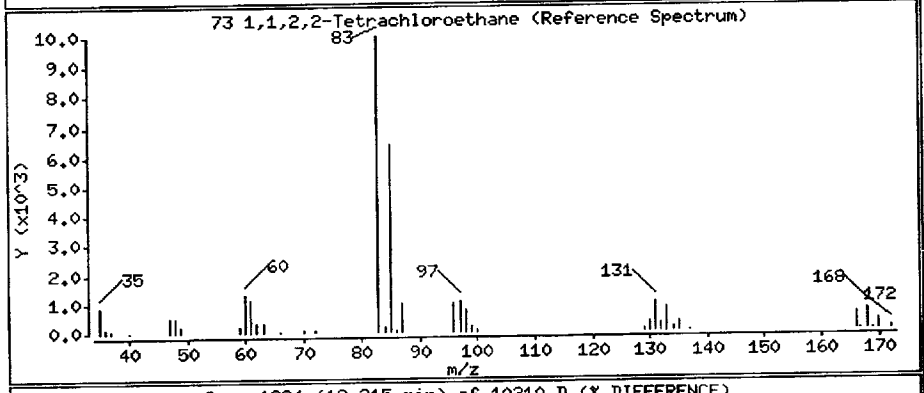
Concentration: 22.7 ug/l

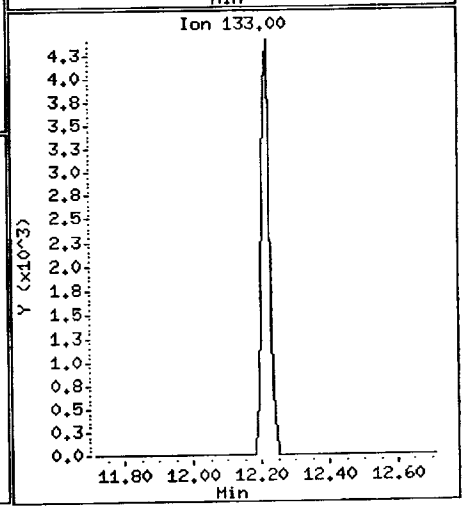


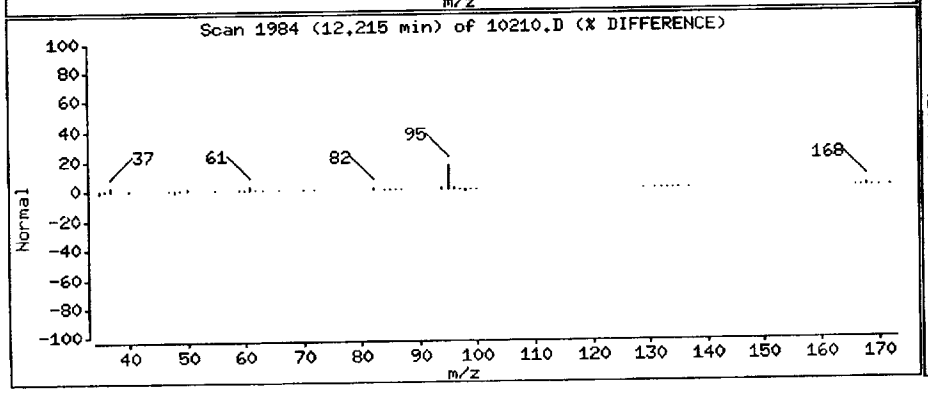












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10210.D

Date : 25-SEP-2002 07:37

Client ID: 11Q30228HS

Instrument: vms03.i

Sample Info: 220910210;2209102;1;

Purge Volume: 5.0

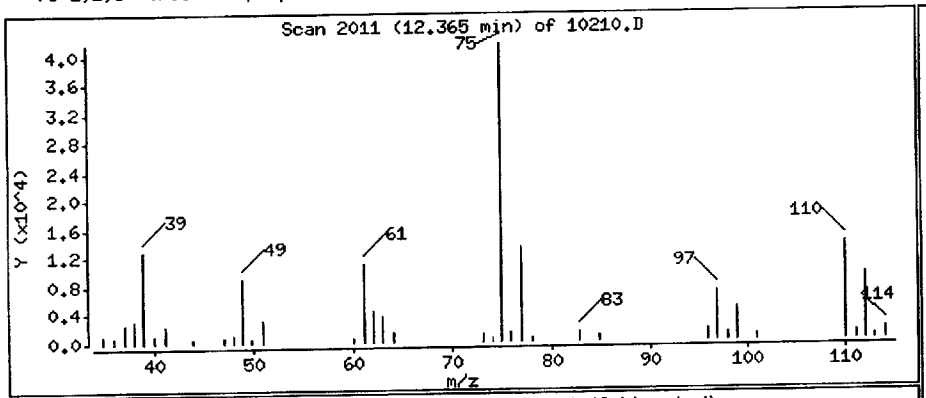
Operator:

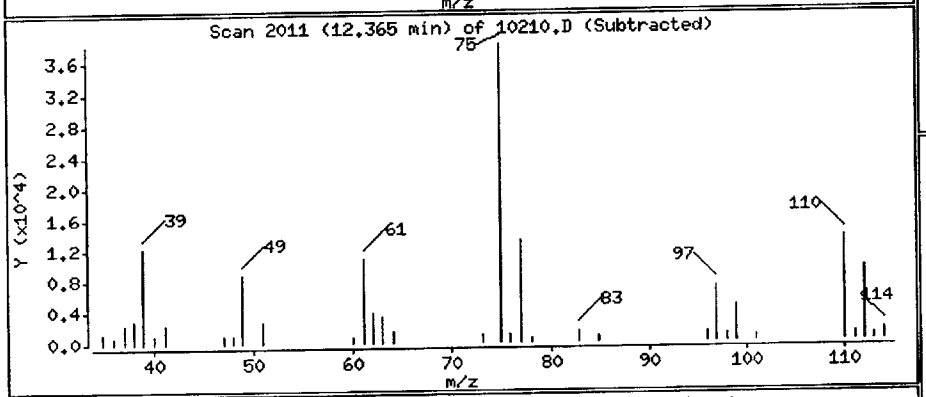
Column phase: DB-624

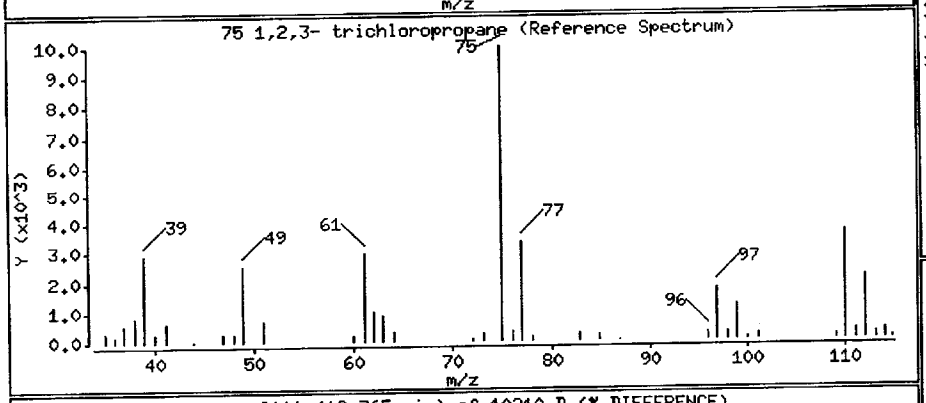
Column diameter: 0.18

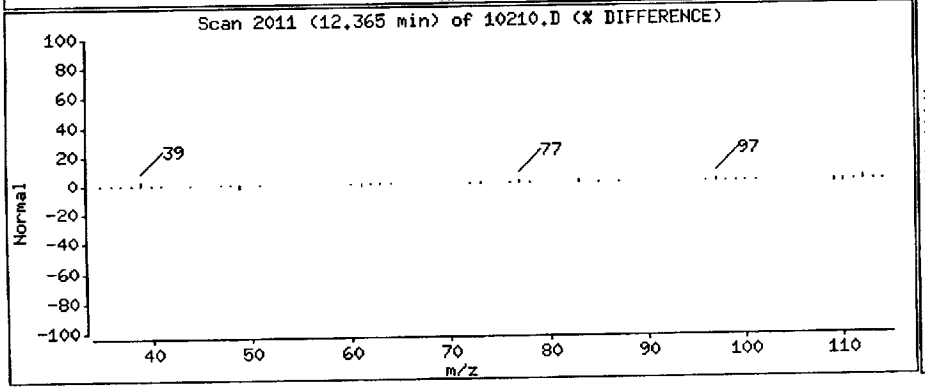
75 1,2,3- trichloropropane

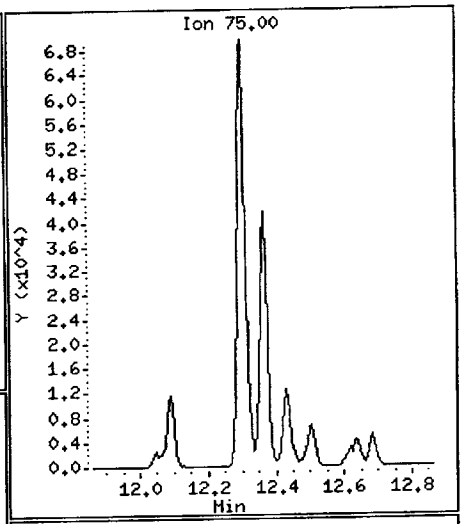
Concentration: 22.7 ug/l

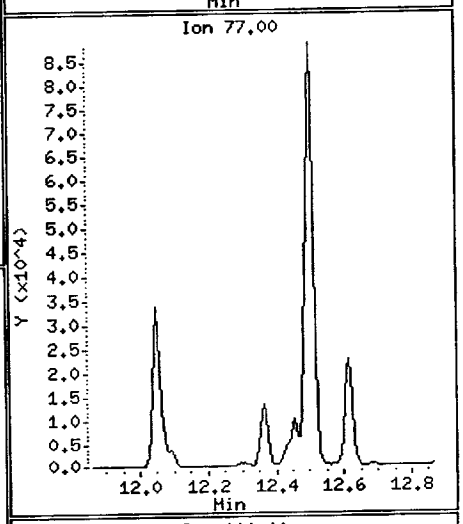


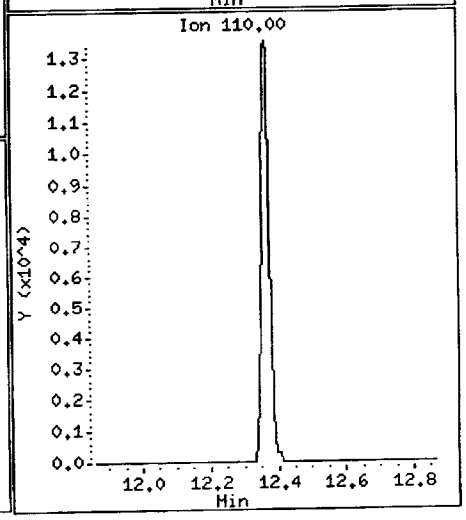












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Date : 25-SEP-2002 07:37

Client ID: 11Q30228MS

Instrument: vms03.i

Sample Info: 220910210;2209102;1;

Purge Volume: 5.0

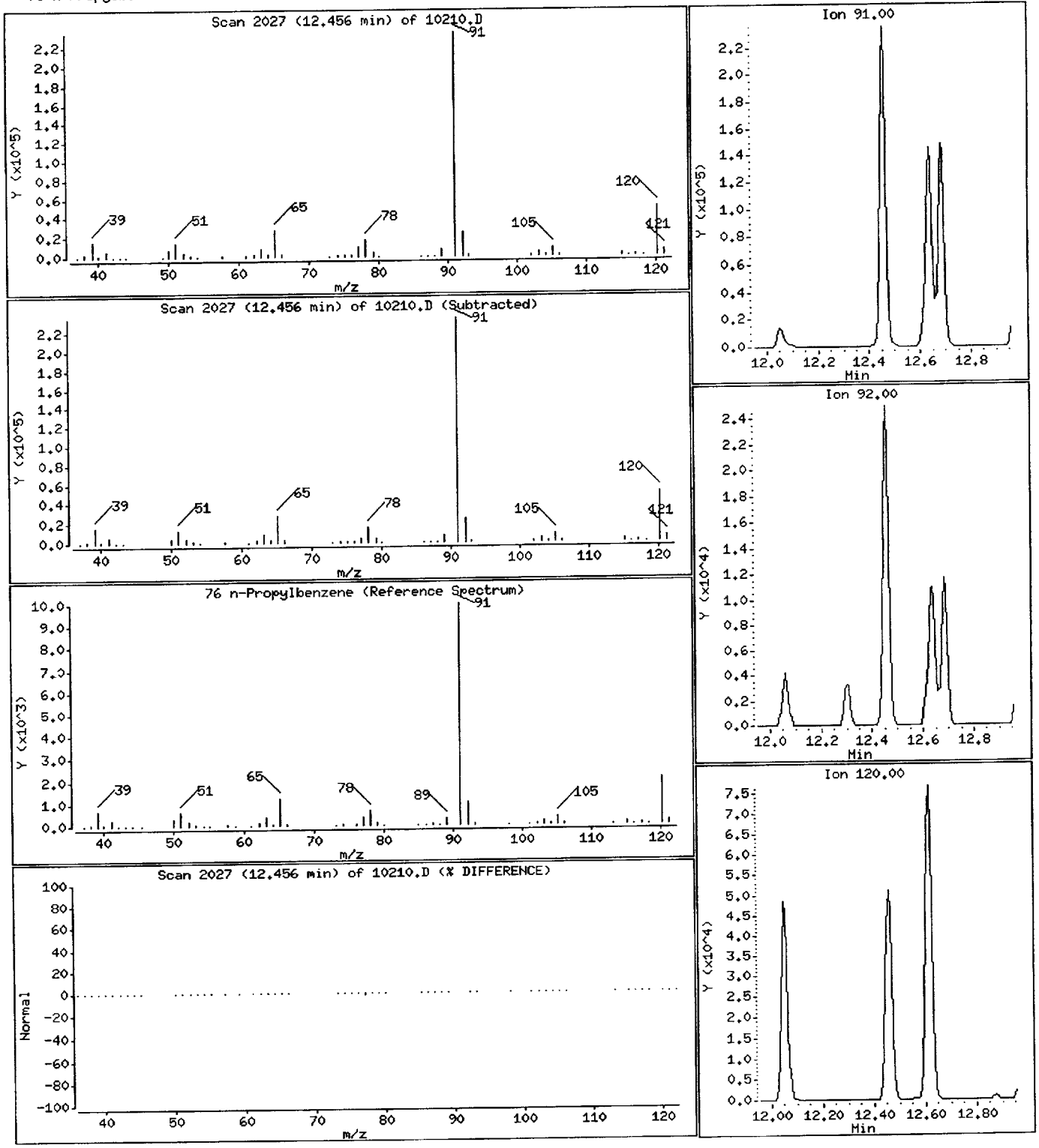
Operator:

Column phase: DB-624

Column diameter: 0.18

76 n-Propylbenzene

Concentration: 22.9 ug/l



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Date : 25-SEP-2002 07:37

Client ID: 11Q30228MS

Instrument: vms03.i

Sample Info: 220910210;2209102;1;

Purge Volume: 5.0

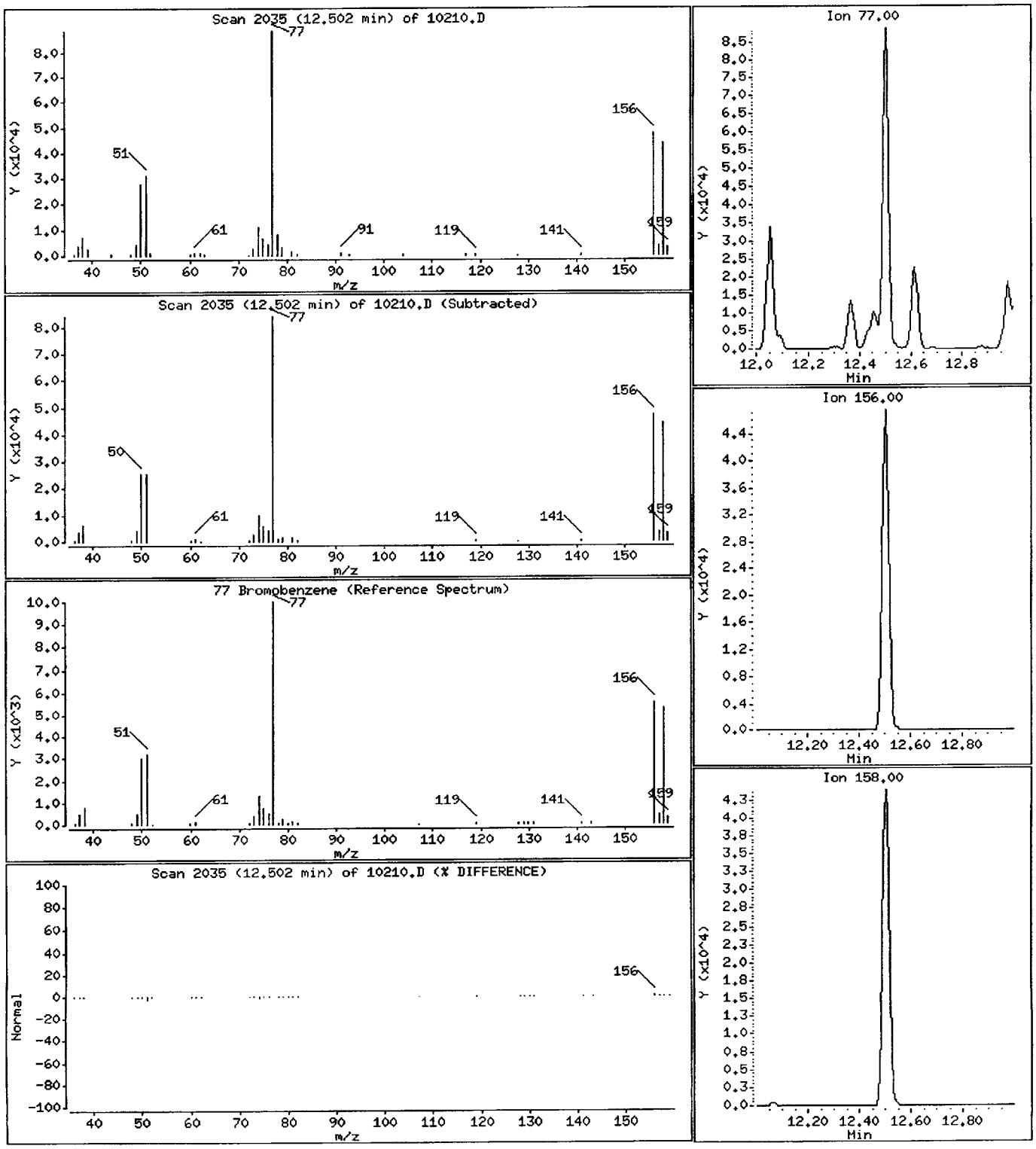
Operator:

Column phase: DB-624

Column diameter: 0.18

77 Bromobenzene

Concentration: 22.7 ug/l



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Date : 25-SEP-2002 07:37

Client ID: 11Q30228MS

Instrument: vms03.i

Sample Info: 220910210;2209102;1;

Purge Volume: 5.0

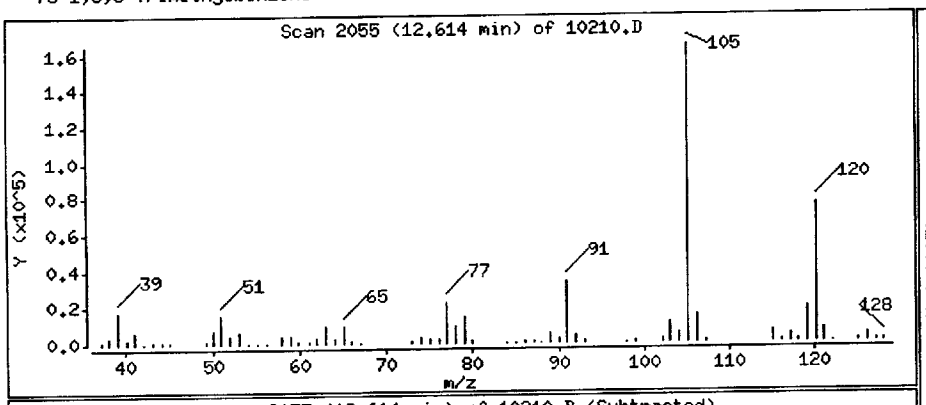
Operator:

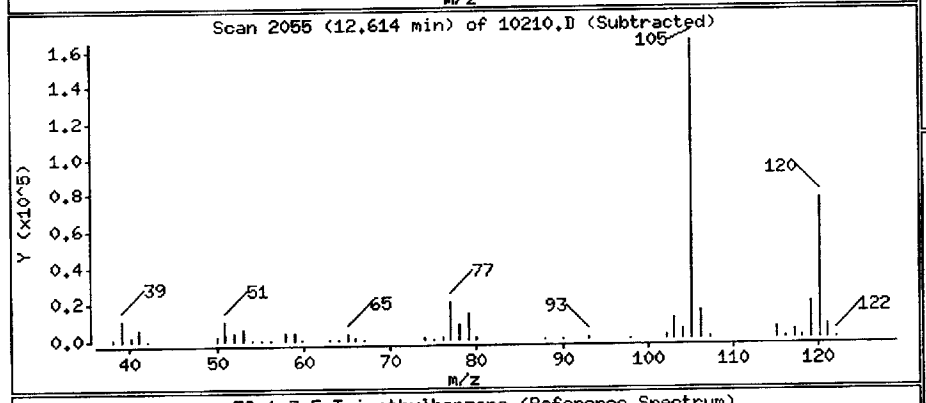
Column phase: DB-624

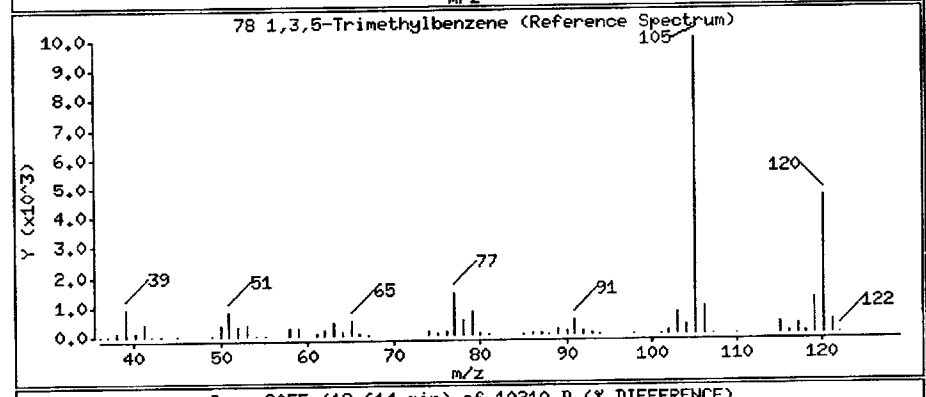
Column diameter: 0.18

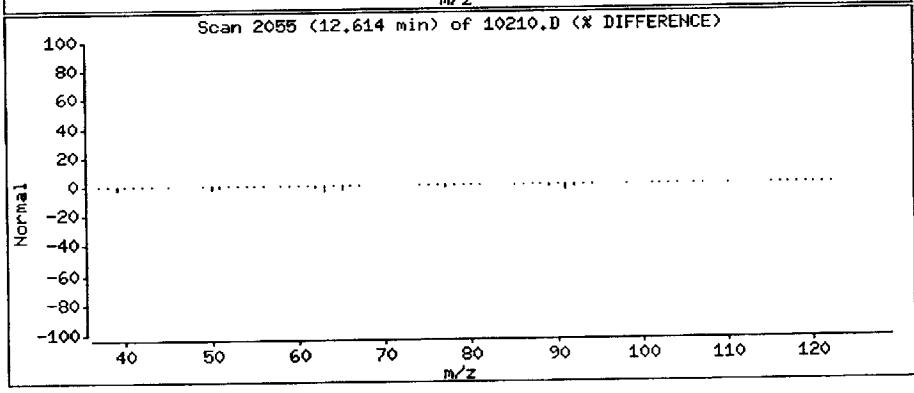
78 1,3,5-Trimethylbenzene

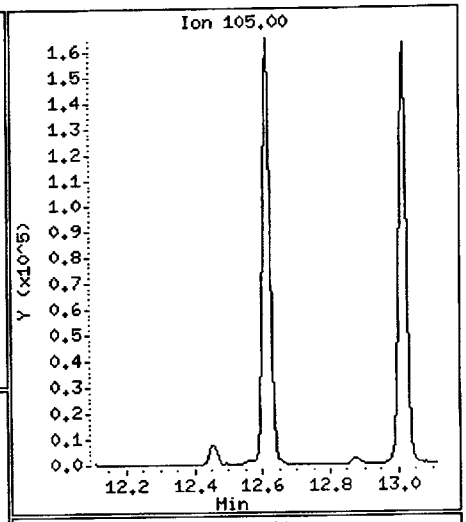
Concentration: 23.1 ug/l

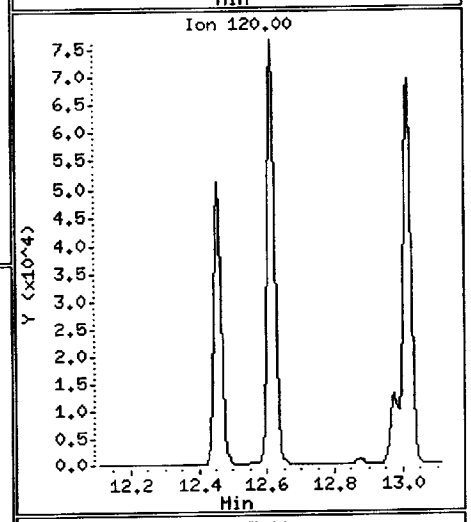


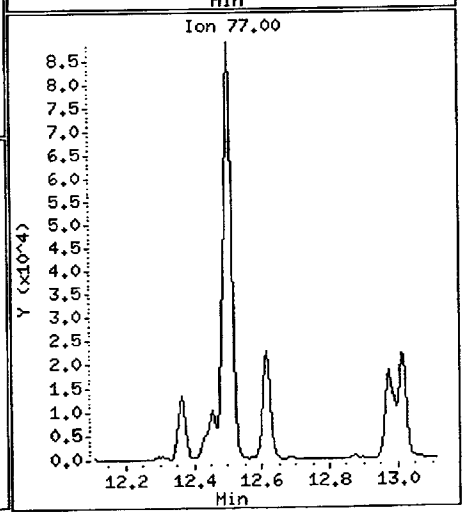












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Date : 25-SEP-2002 07:37

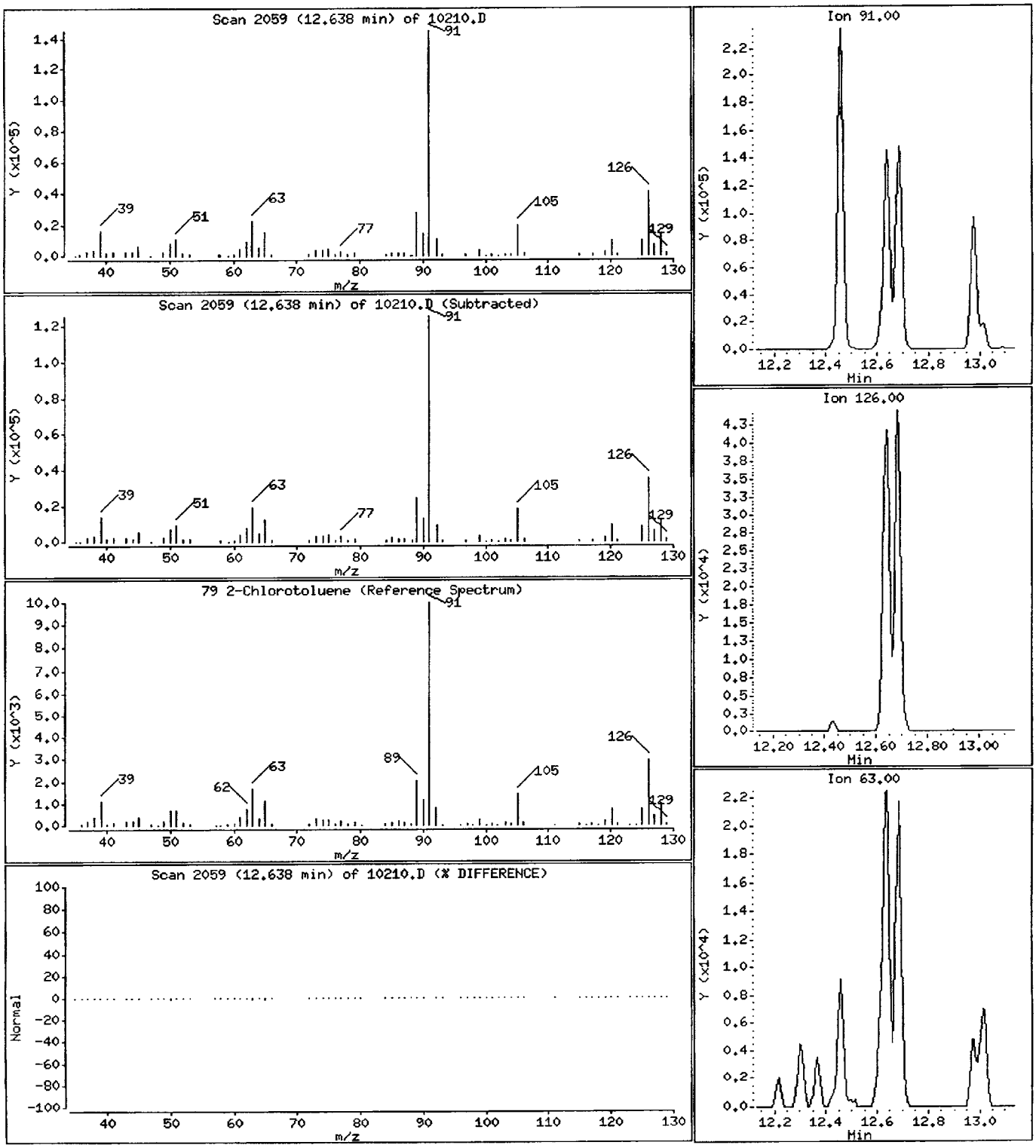
Client ID: 11Q30228MS | Instrument: vms03.i

Sample Info: 220910210;2209102;1;

Purge Volume: 5.0 | Operator:

Column phase: DB-624 | Column diameter: 0.18

79 2-Chlorotoluene | Concentration: 22.3 ug/l



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Date : 25-SEP-2002 07:37

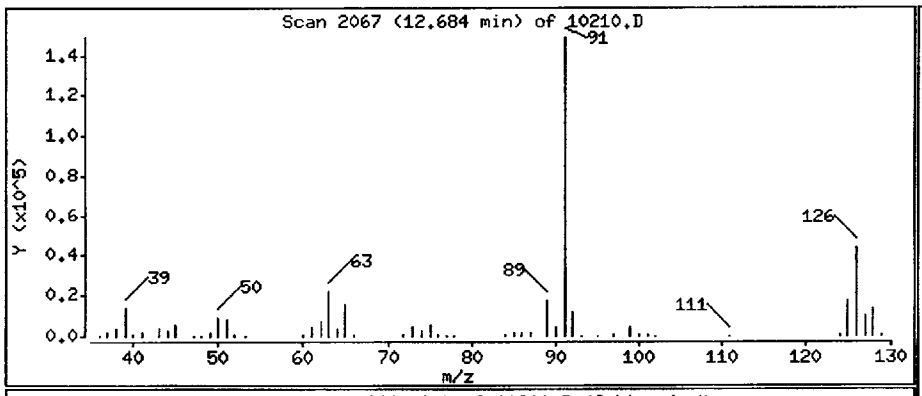
Client ID: 11Q30228MS | Instrument: vms03.i

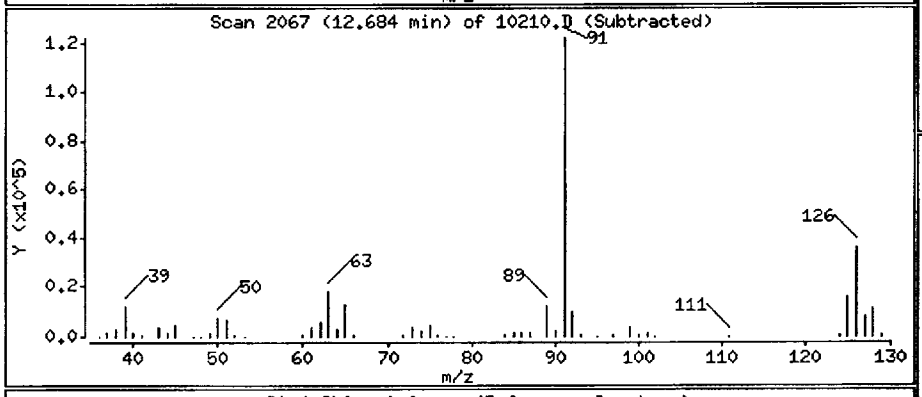
Sample Info: 220910210;2209102;1;

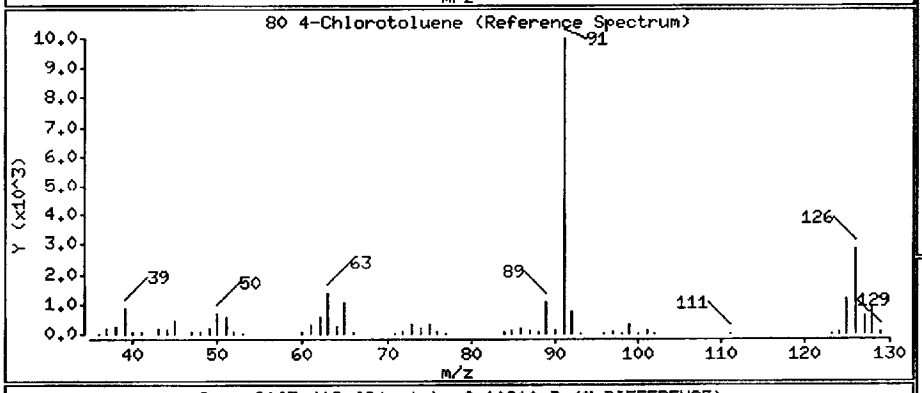
Purge Volume: 5.0 | Operator:

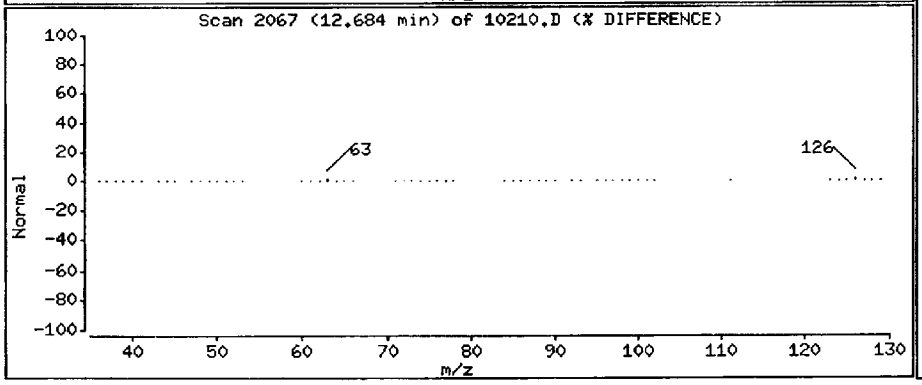
Column phase: DB-624 | Column diameter: 0.18

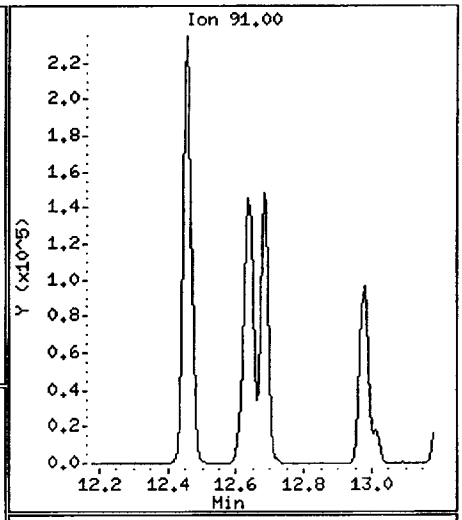
80 4-Chlorotoluene | Concentration: 22.8 ug/l

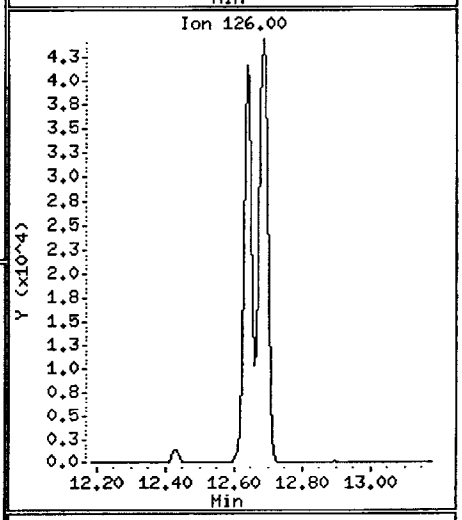


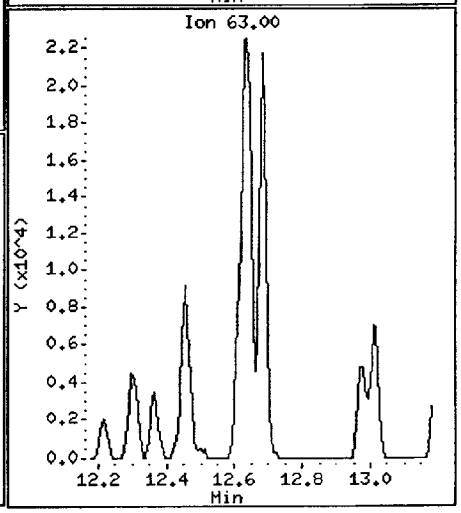












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Date : 25-SEP-2002 07:37

Client ID: 11Q30228MS

Instrument: vms03.i

Sample Info: 220910210;2209102;1;

Purge Volume: 5.0

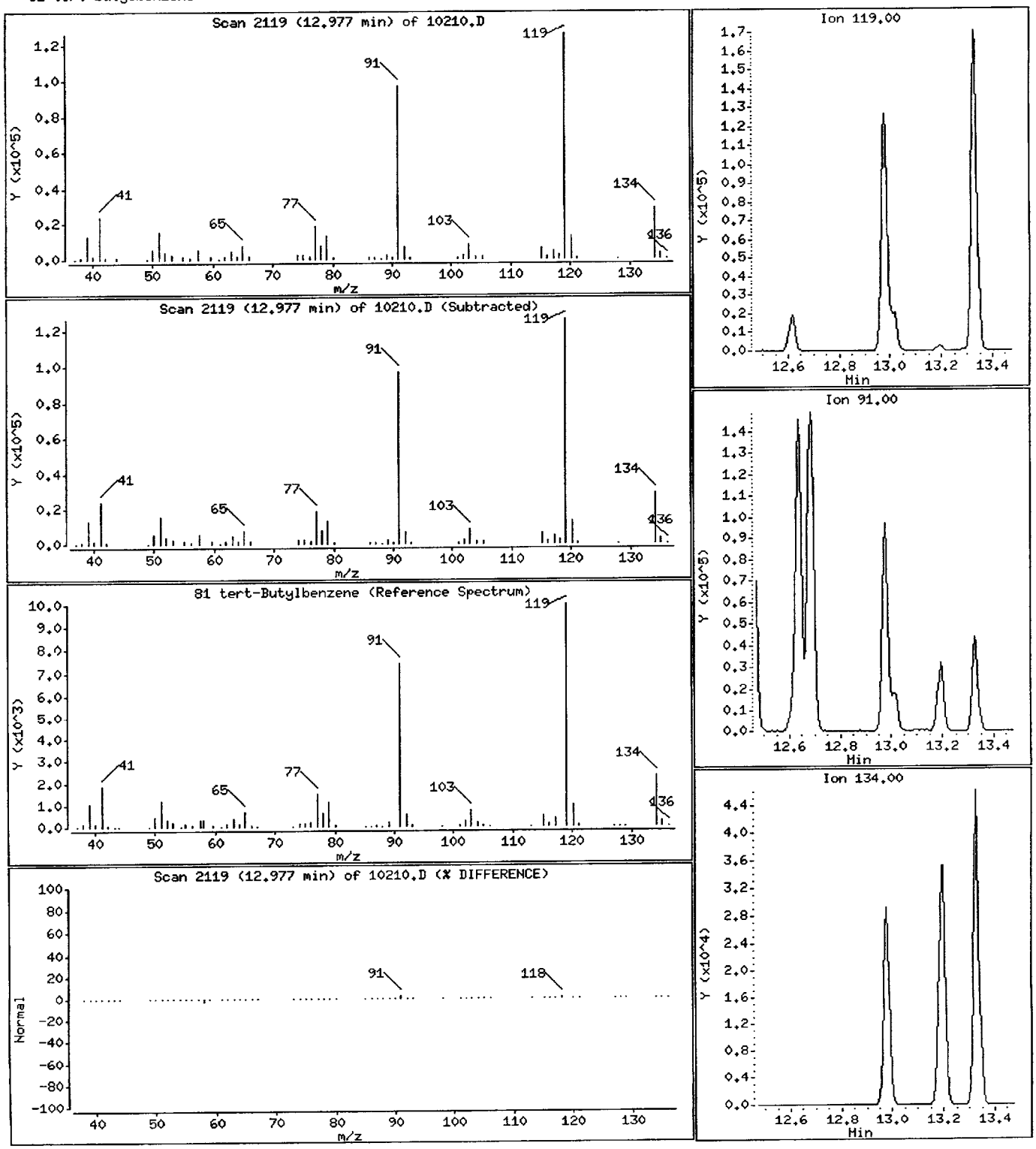
Operator:

Column phase: DB-624

Column diameter: 0.18

81 tert-Butylbenzene

Concentration: 23.0 ug/l



Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10210.D

Date : 25-SEP-2002 07:37

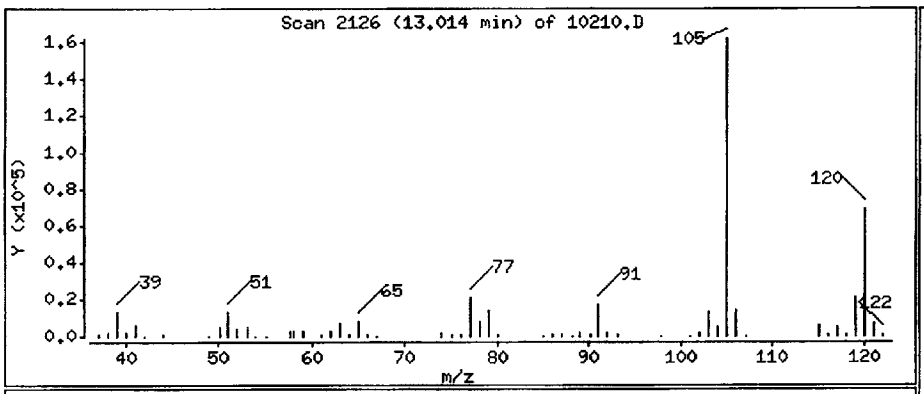
Client ID: 11Q30228MS | Instrument: vms03.i

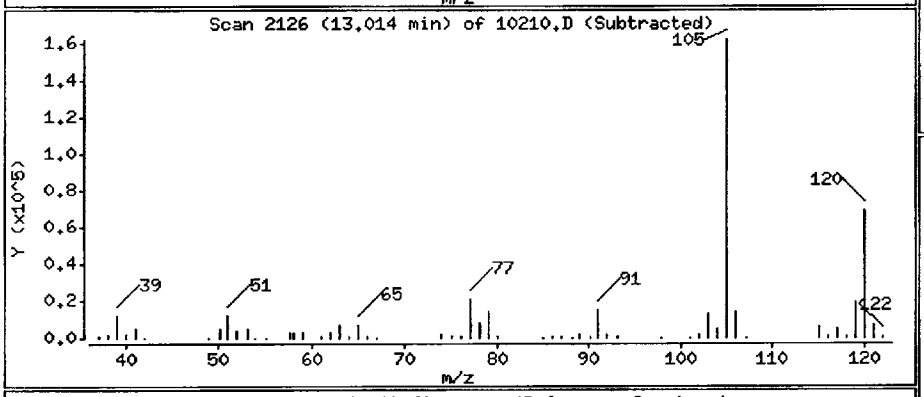
Sample Info: 220910210;2209102;1;

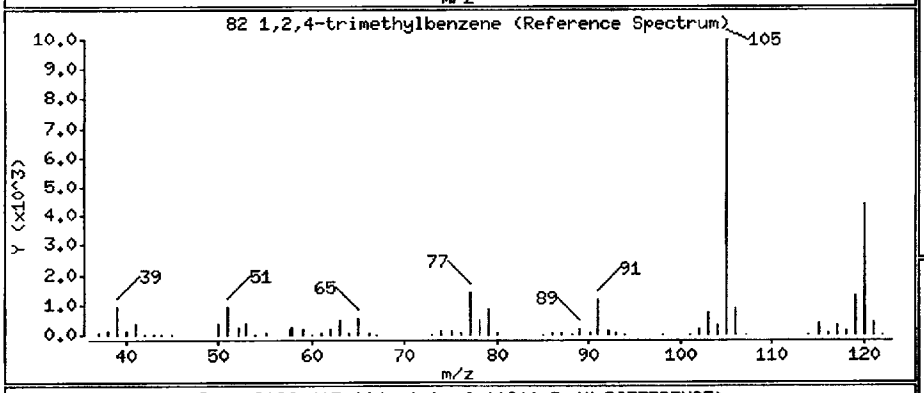
Purge Volume: 5.0 | Operator:

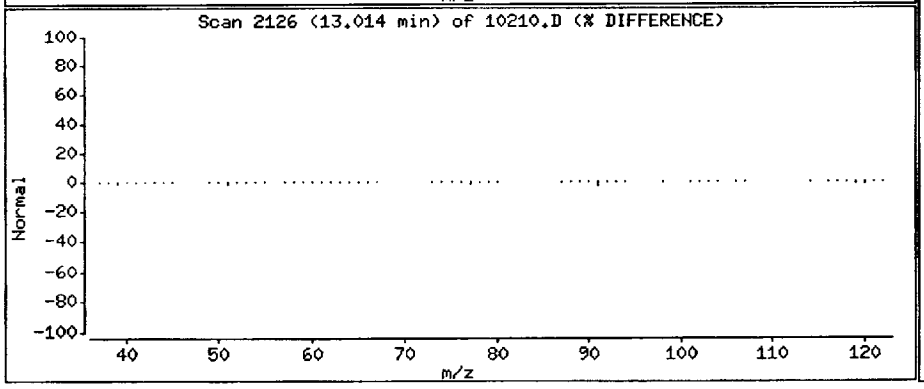
Column phase: DB-624 | Column diameter: 0.18

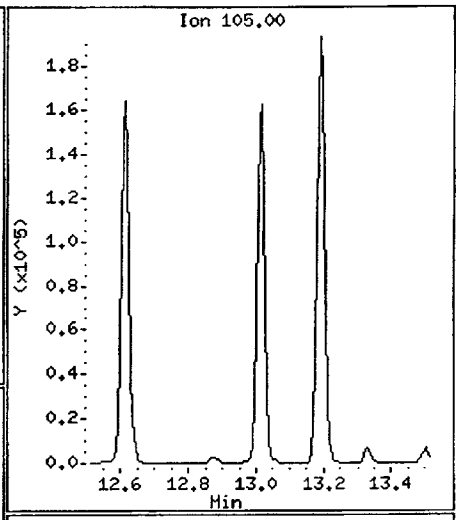
82 1,2,4-trimethylbenzene | Concentration: 23.0 ug/l

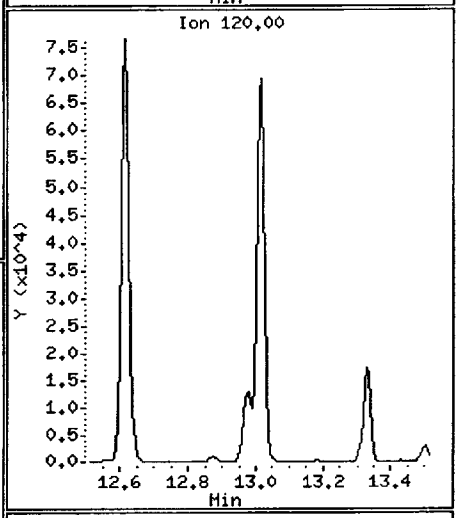


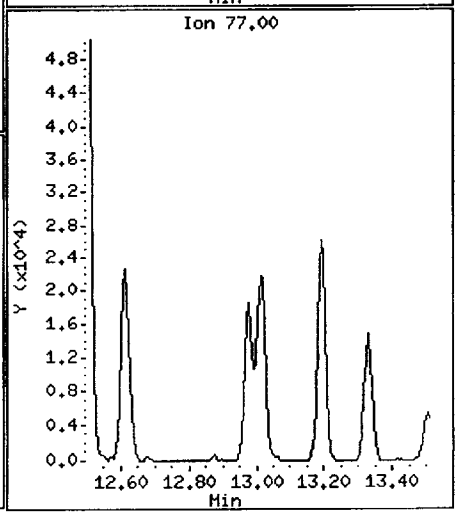












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Date : 25-SEP-2002 07:37

Client ID: 11Q30228MS

Instrument: vms03.i

Sample Info: 220910210;2209102;1;

Purge Volume: 5.0

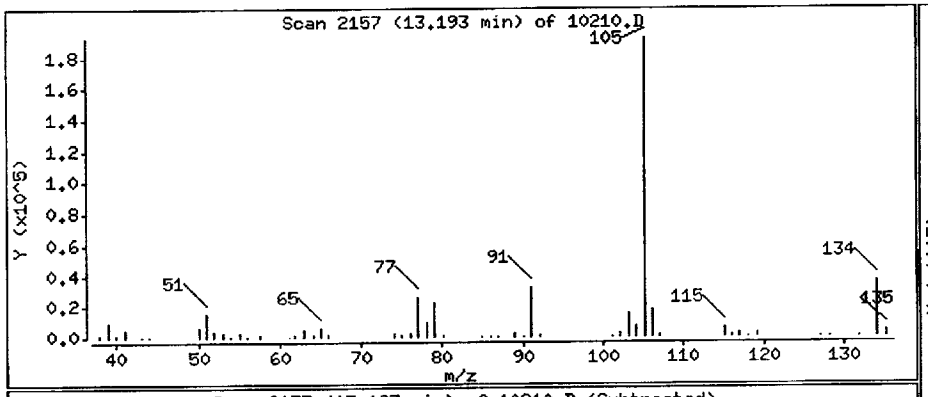
Operator:

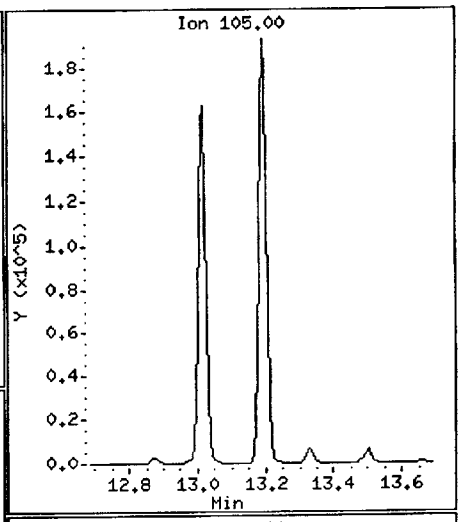
Column phase: DB-624

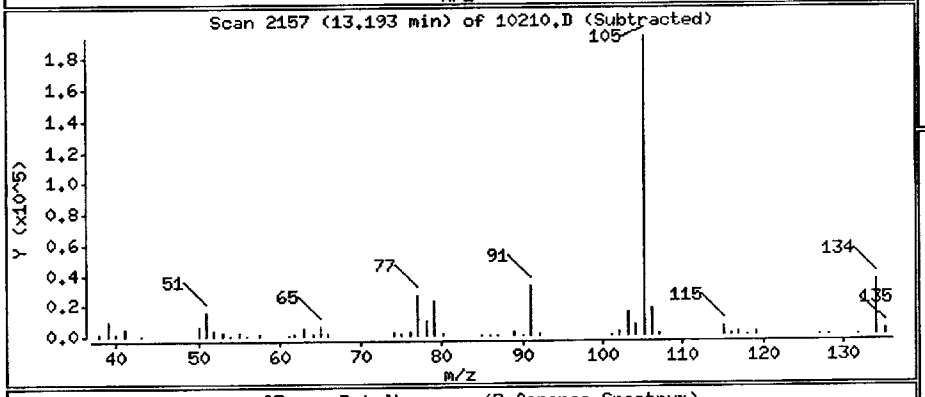
Column diameter: 0.18

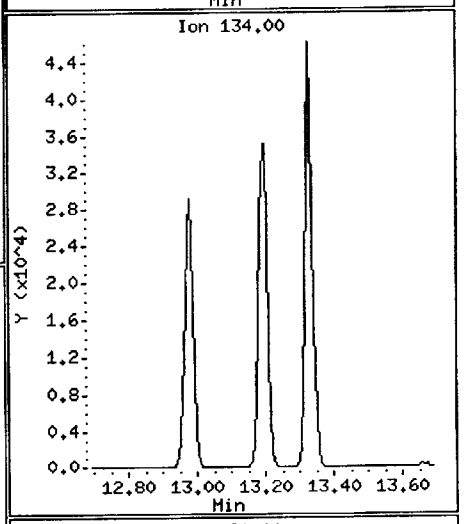
83 sec-Butylbenzene

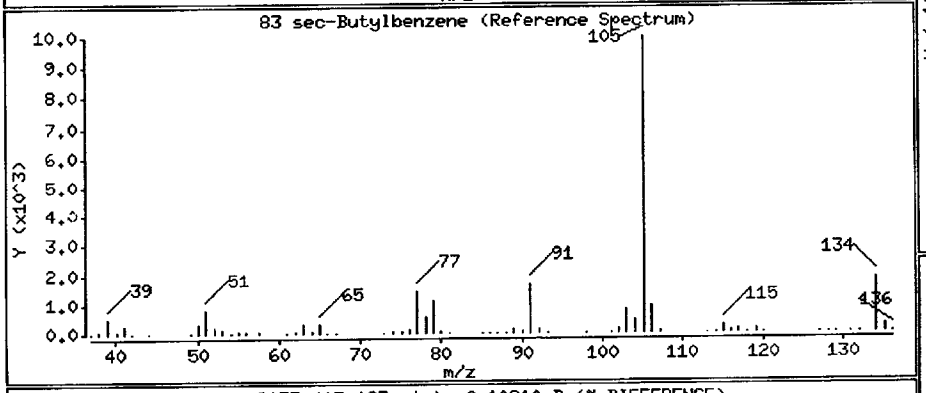
Concentration: 22.4 ug/l

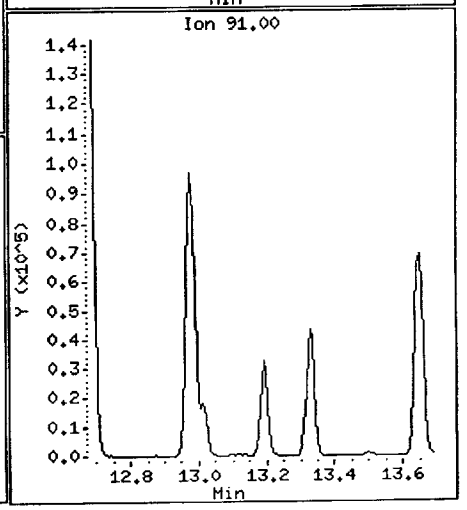


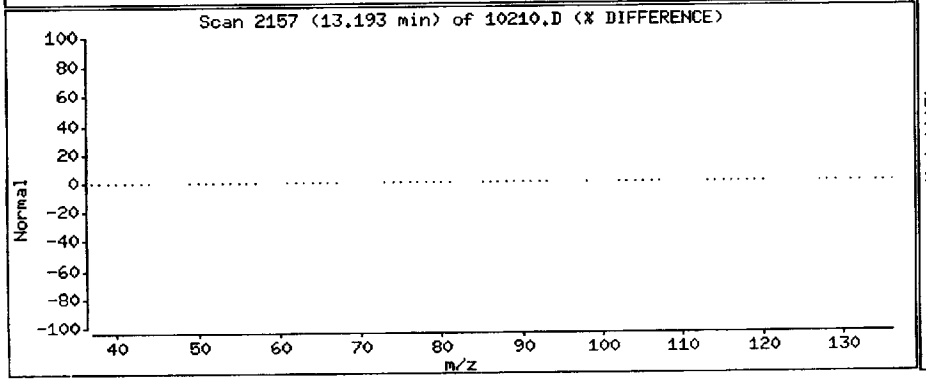












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10210.D

Date : 25-SEP-2002 07:37

Client ID: 11Q30228MS

Instrument: vms03.i

Sample Info: 220910210;2209102;1;

Purge Volume: 5.0

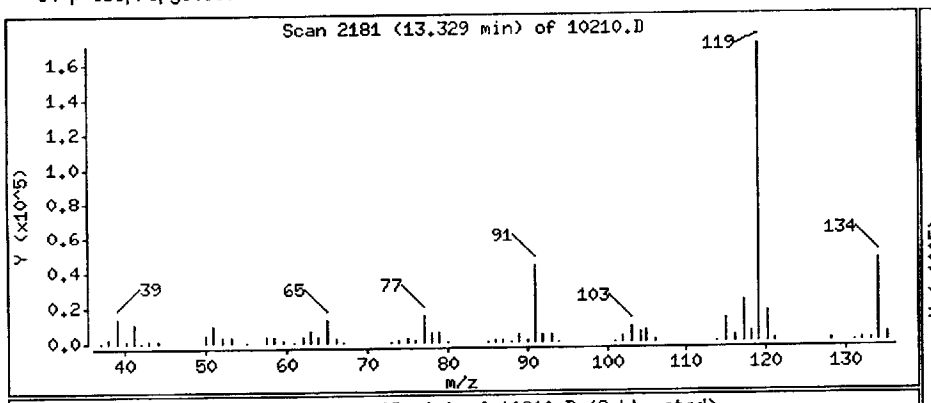
Operator:

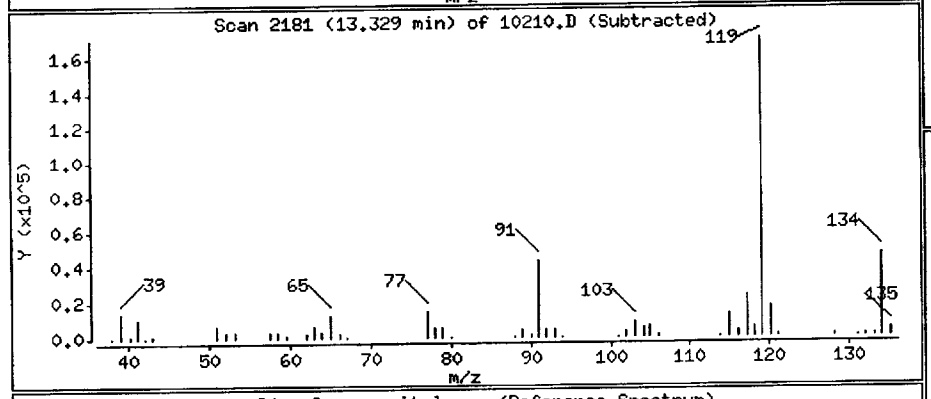
Column phase: DB-624

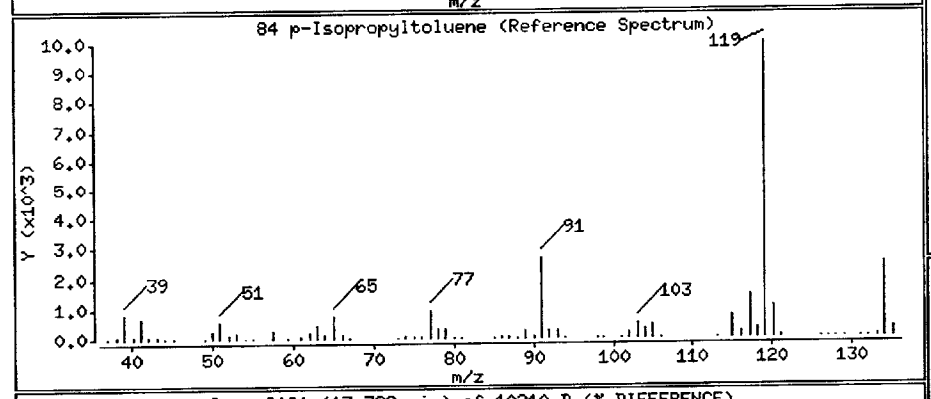
Column diameter: 0.18

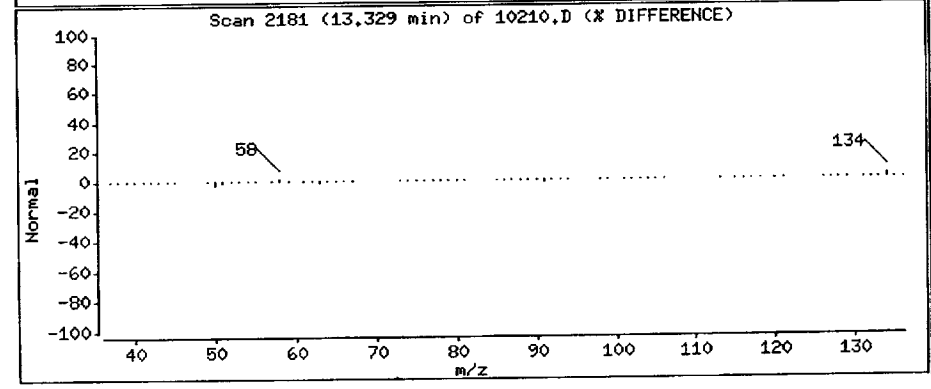
84 p-Isopropyltoluene

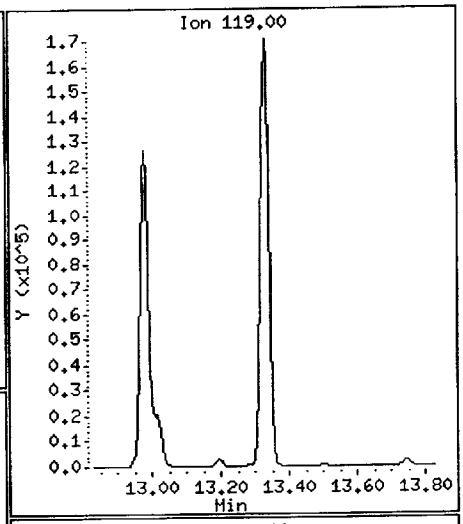
Concentration: 22.7 ug/l

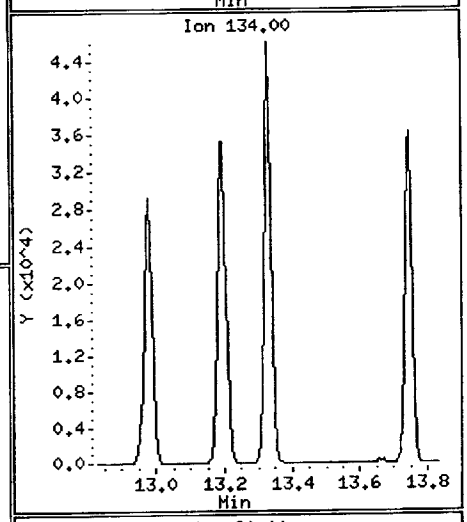


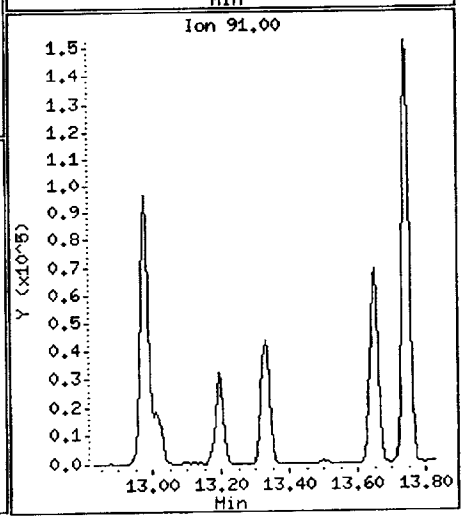












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10210.D

Date : 25-SEP-2002 07:37

Client ID: 11Q30228MS

Instrument: vms03.i

Sample Info: 220910210;2209102;1;

Purge Volume: 5.0

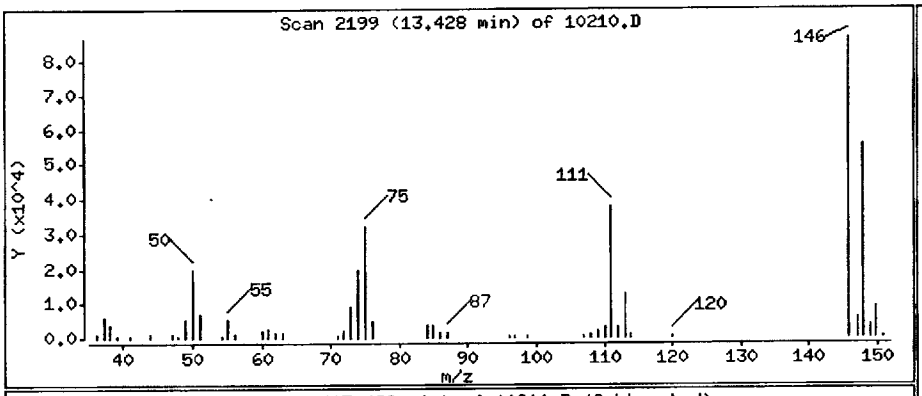
Operator:

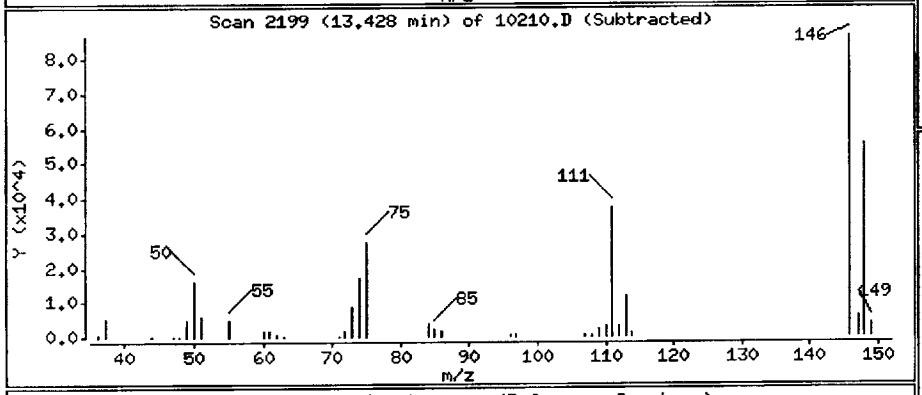
Column phase: DB-624

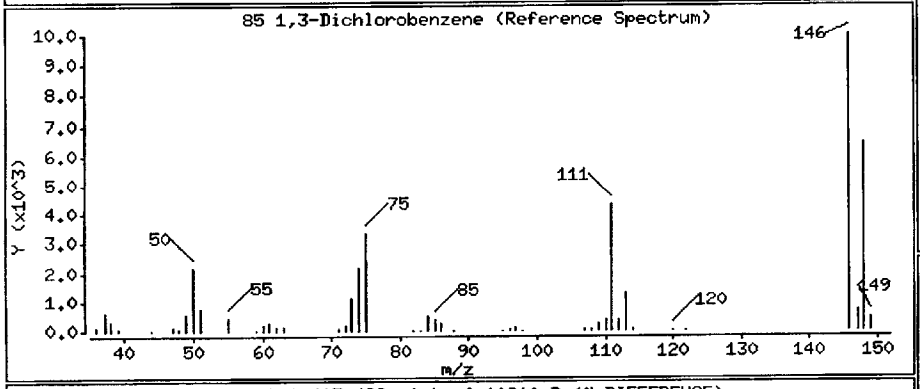
Column diameter: 0.18

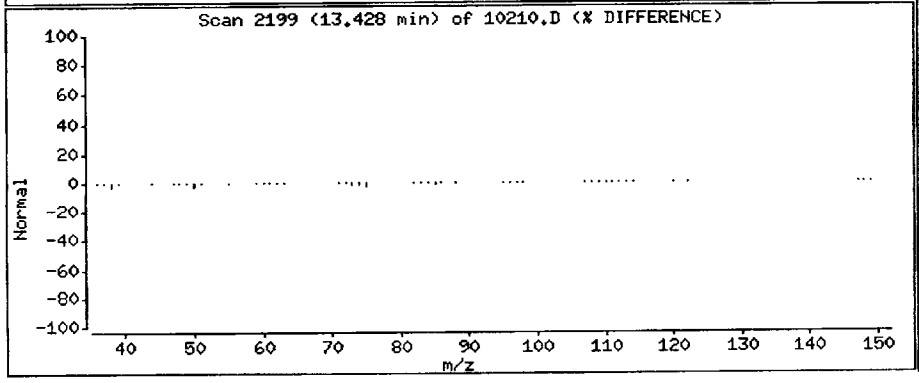
85 1,3-Dichlorobenzene

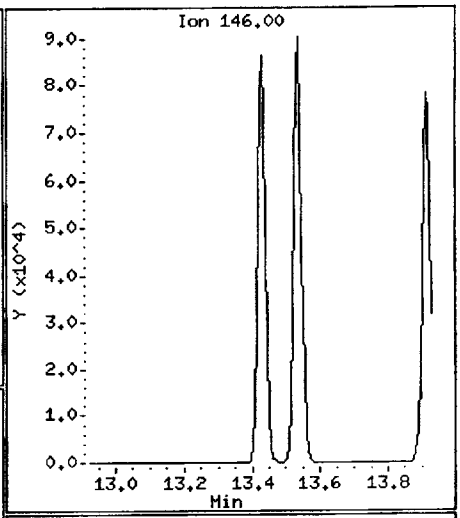
Concentration: 22.5 ug/l

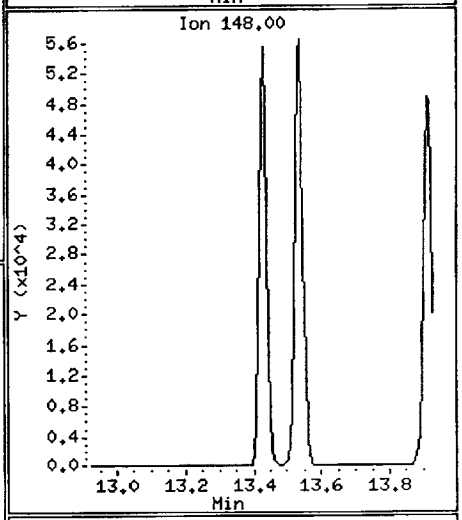


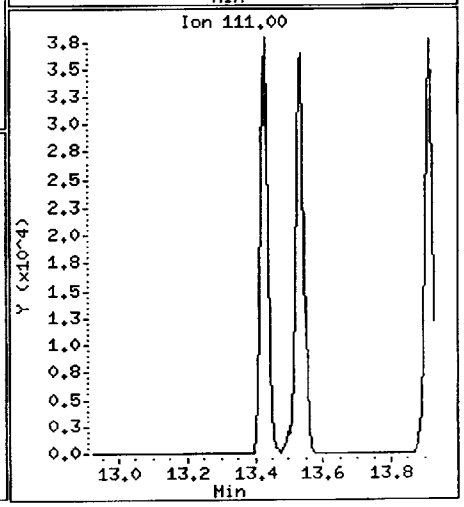












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10210.D

Date : 25-SEP-2002 07:37

Client ID: 11Q30228MS

Instrument: vms03.i

Sample Info: 220910210;2209102;1;

Purge Volume: 5.0

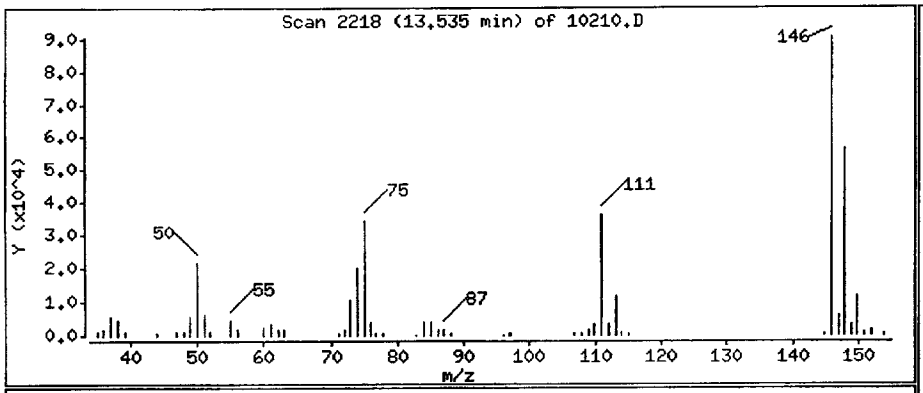
Operator:

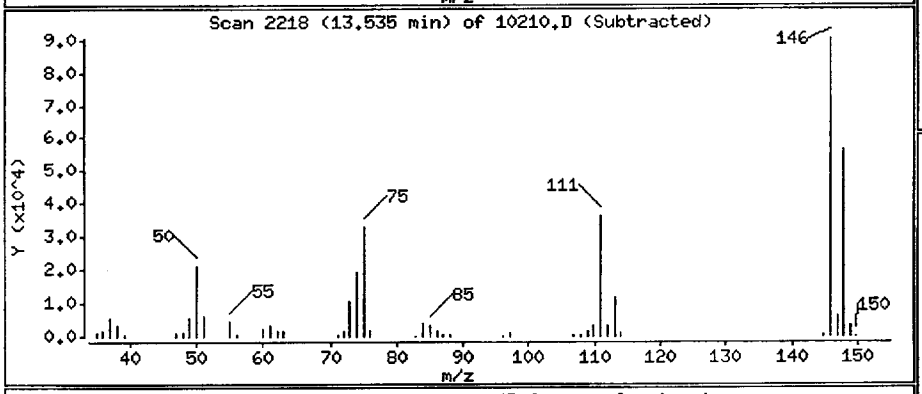
Column phase: DB-624

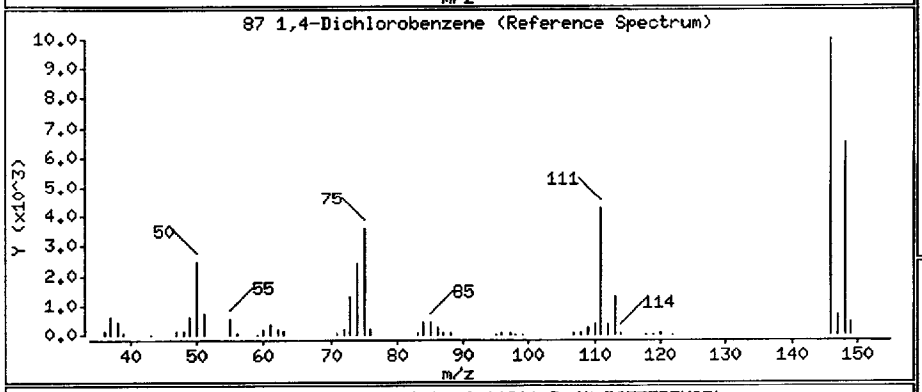
Column diameter: 0.18

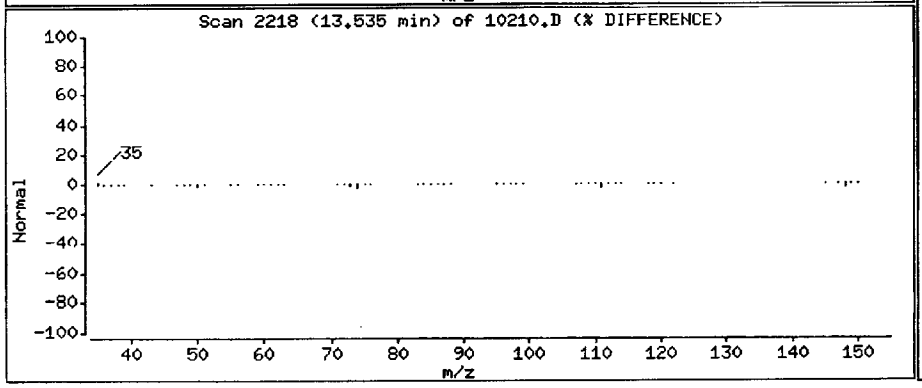
87 1,4-Dichlorobenzene

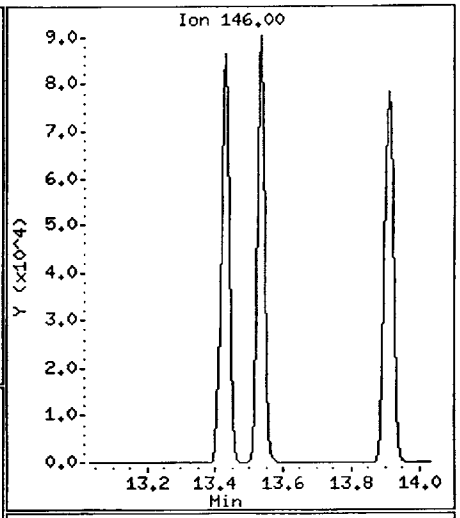
Concentration: 22.1 ug/l

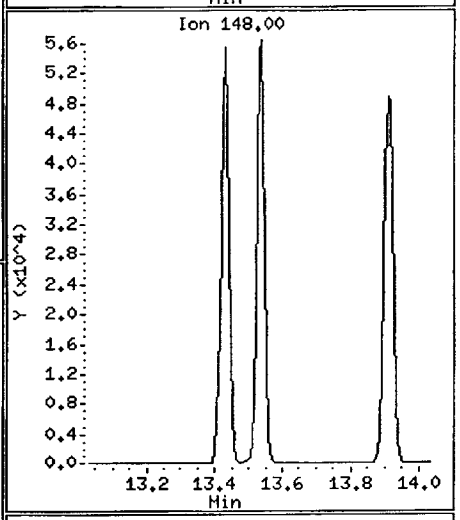


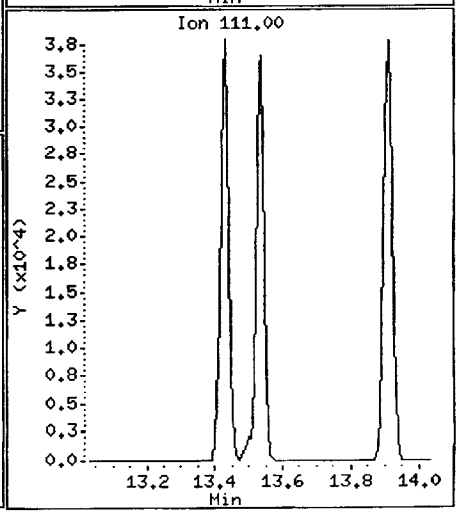












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10210.D

Date : 25-SEP-2002 07:37

Client ID: 11Q30228MS

Instrument: vms03.i

Sample Info: 220910210;2209102;1;

Purge Volume: 5.0

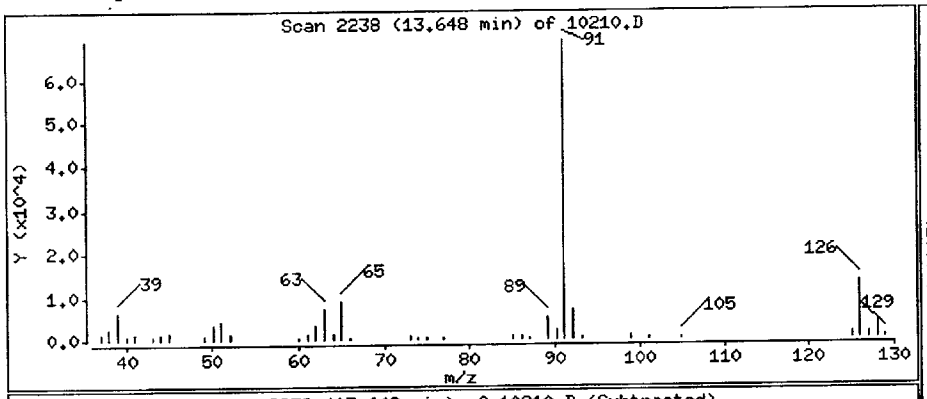
Operator:

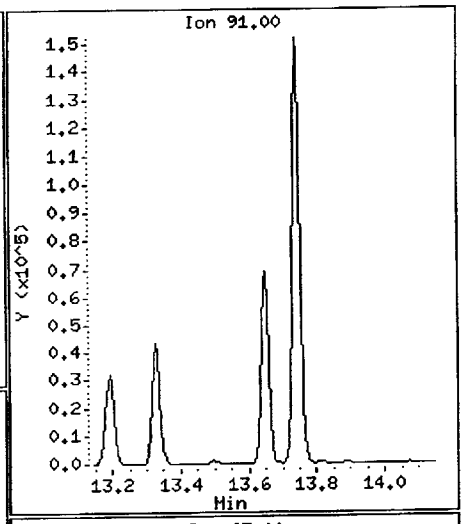
Column phase: DB-624

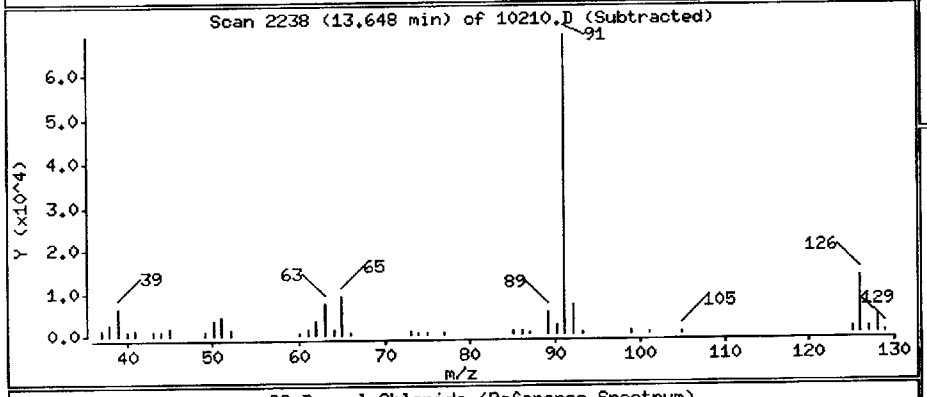
Column diameter: 0.18

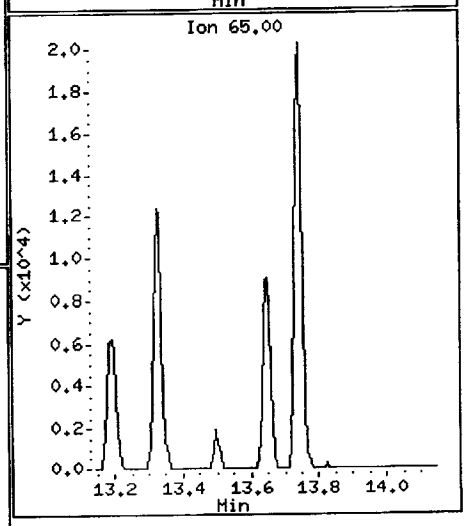
88 Benzyl Chloride

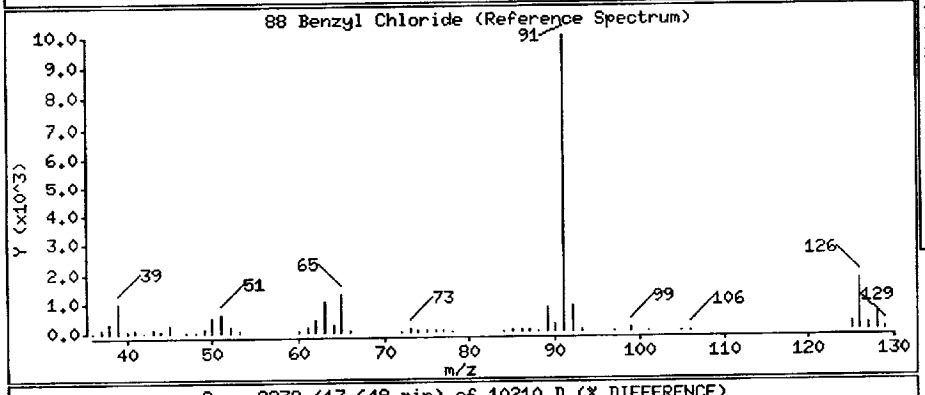
Concentration: 20.7 ug/l

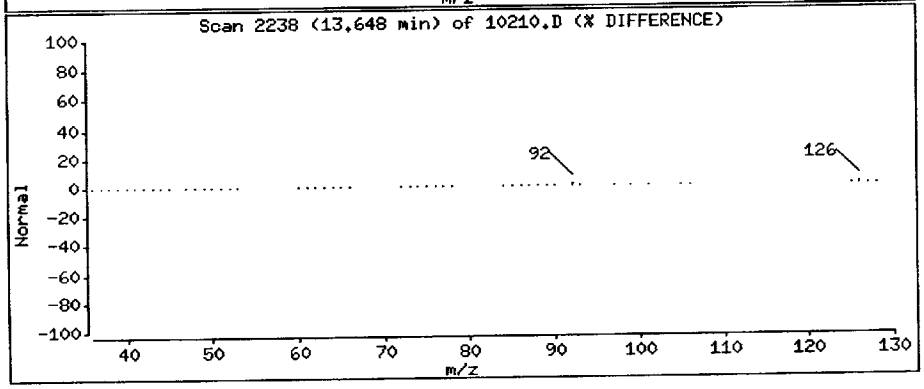












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10210.D

Date : 25-SEP-2002 07:37

Client ID: 11Q30228MS

Instrument: vms03.i

Sample Info: 220910210;2209102;1;

Purge Volume: 5.0

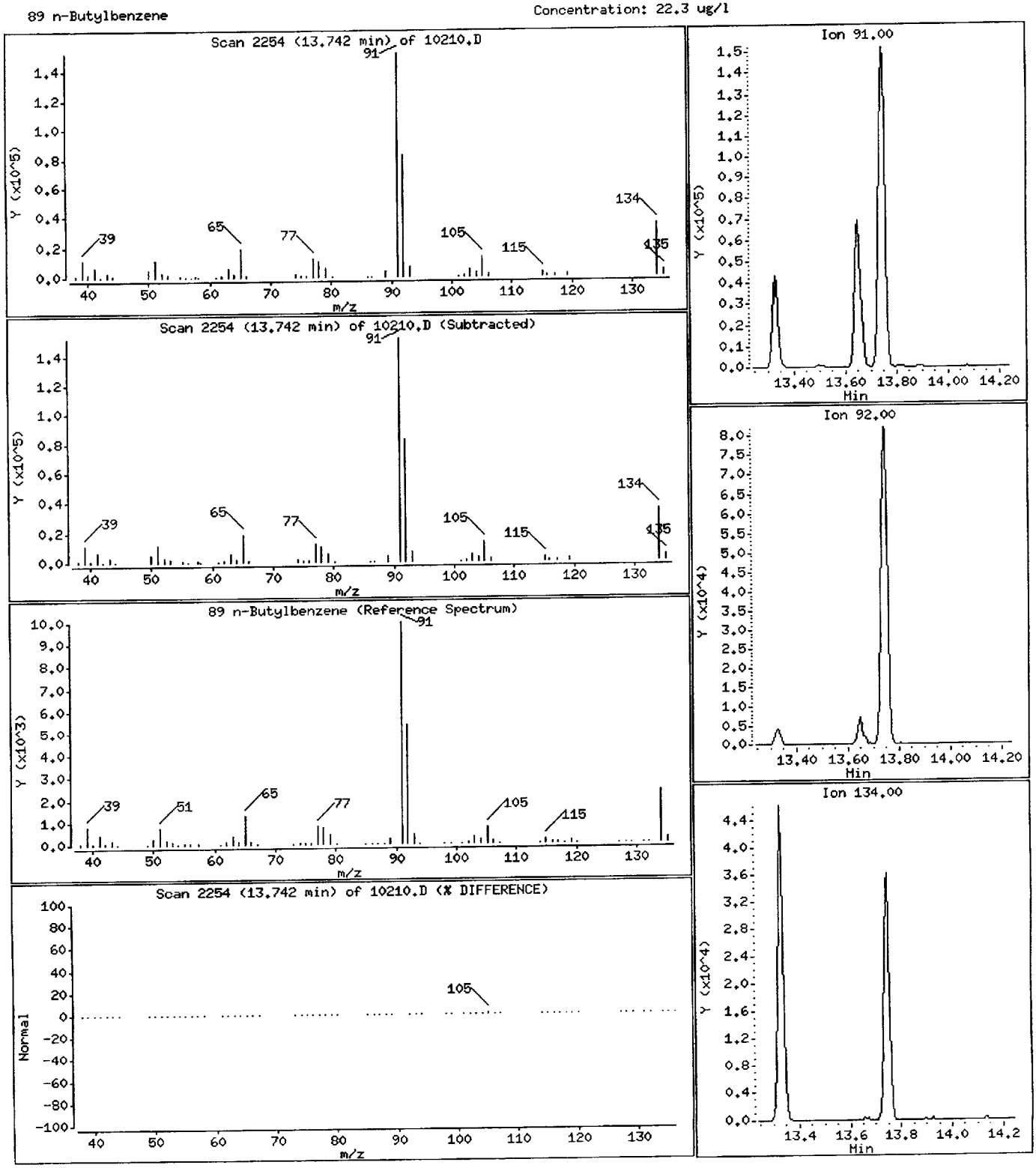
Operator:

Column phase: DB-624

Column diameter: 0.18

89 n-Butylbenzene

Concentration: 22.3 ug/l



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Date : 25-SEP-2002 07:37

Client ID: 11Q30228MS

Instrument: vms03.i

Sample Info: 220910210;2209102;1;

Purge Volume: 5.0

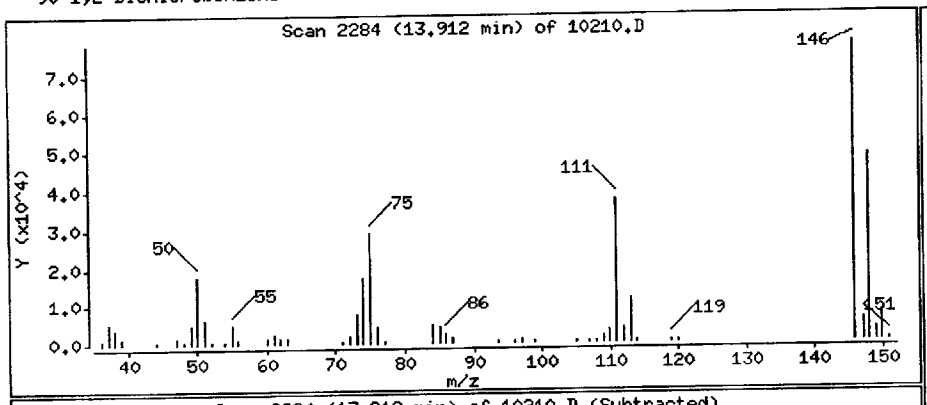
Operator:

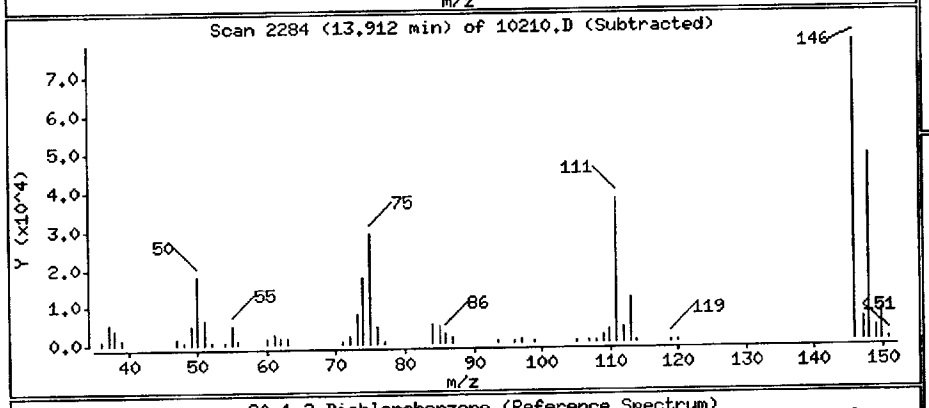
Column phase: DB-624

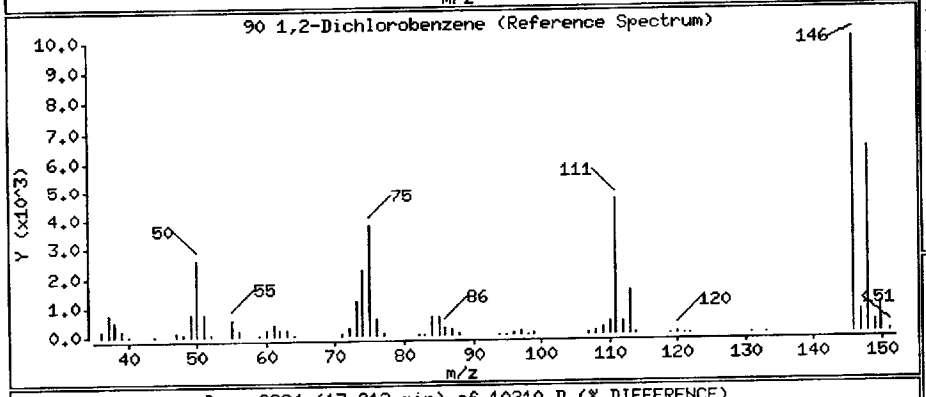
Column diameter: 0.18

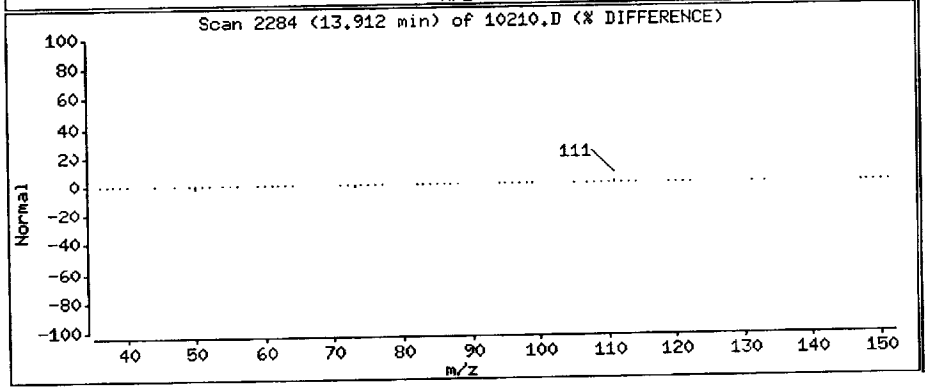
90 1,2-Dichlorobenzene

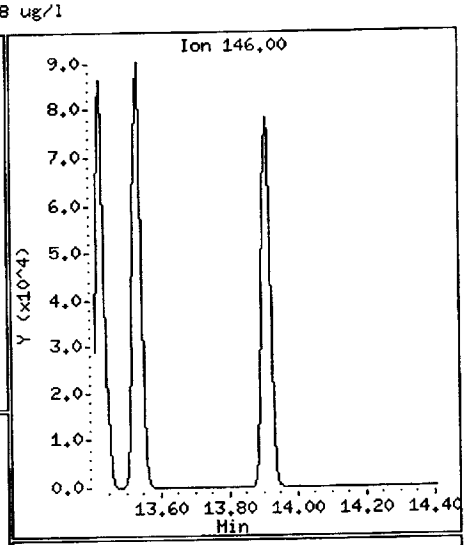
Concentration: 21.8 ug/l

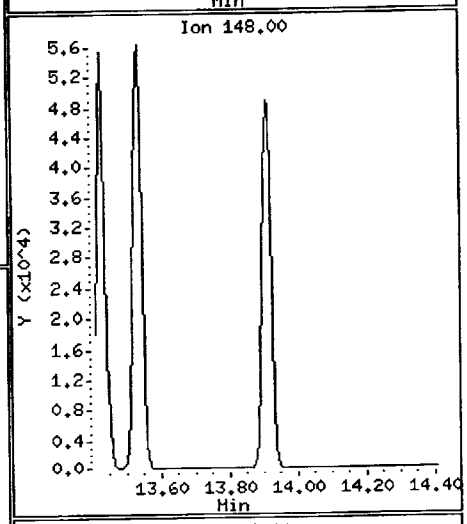


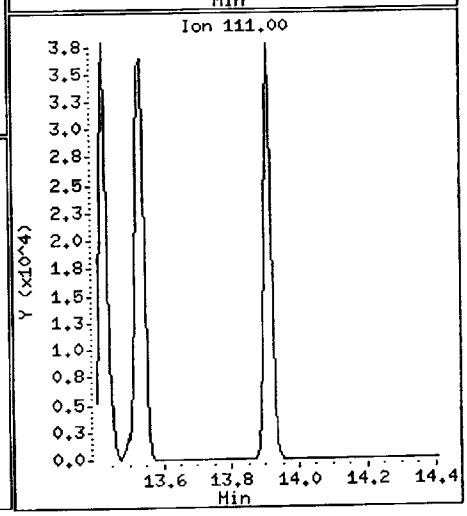












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10210.D

Date : 25-SEP-2002 07:37

Client ID: 11Q30228MS

Instrument: vms03.i

Sample Info: 220910210;2209102;1;

Purge Volume: 5.0

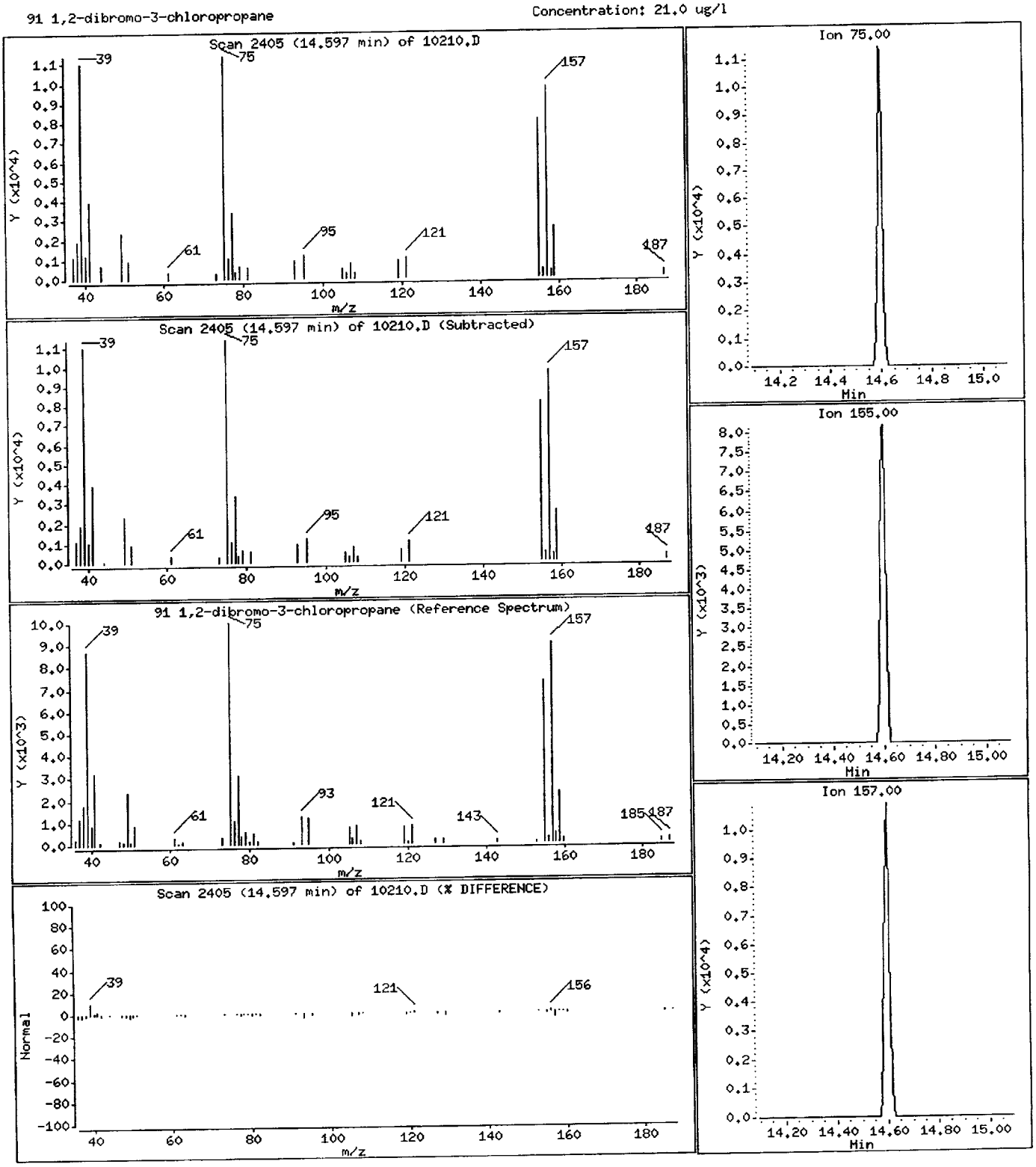
Operator:

Column phase: DB-624

Column diameter: 0.18

91 1,2-dibromo-3-chloropropane

Concentration: 21.0 ug/l



Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10210.D

Date : 25-SEP-2002 07:37

Client ID: 11Q30228MS

Instrument: vms03.i

Sample Info: 220910210;2209102;1;

Purge Volume: 5.0

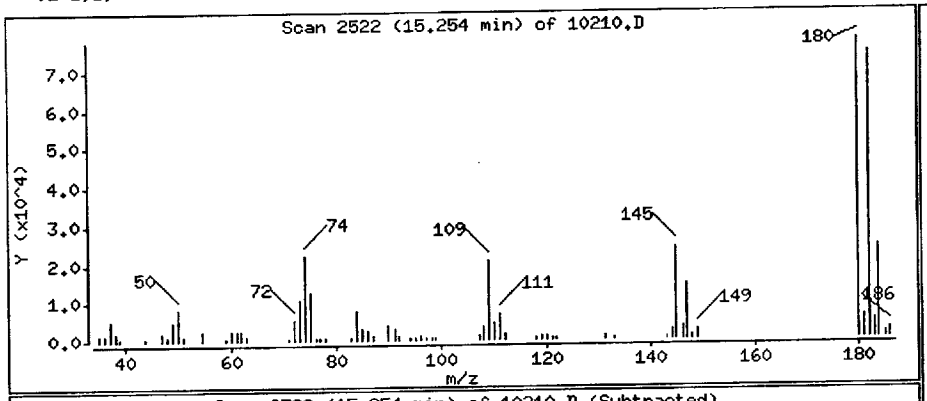
Operator:

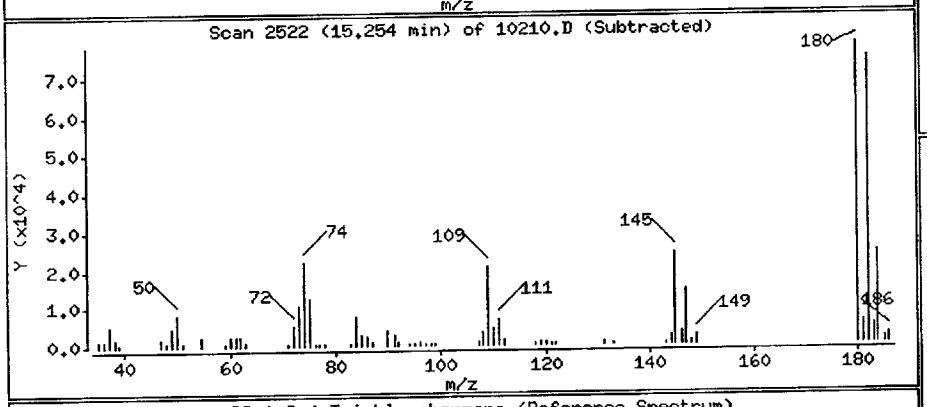
Column phase: DB-624

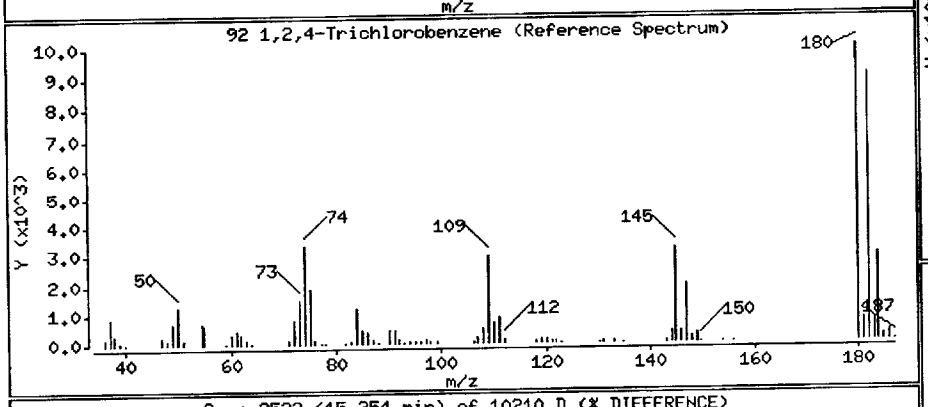
Column diameter: 0.18

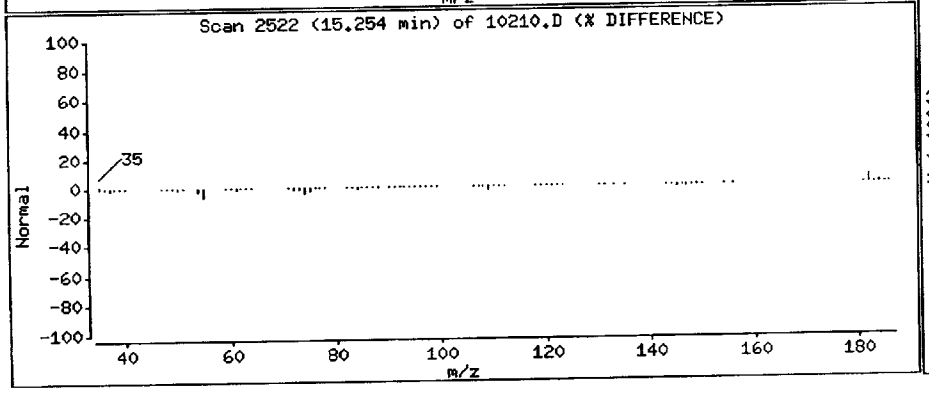
92 1,2,4-Trichlorobenzene

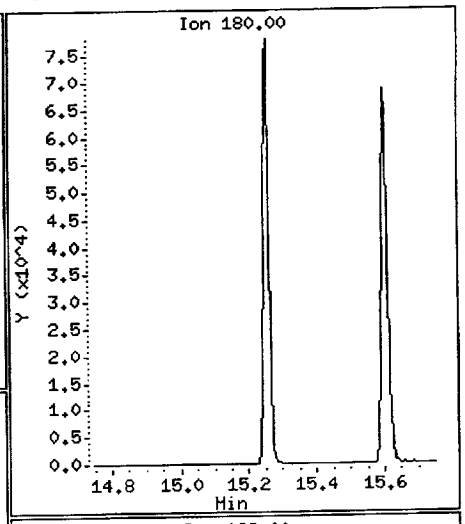
Concentration: 22.6 ug/l

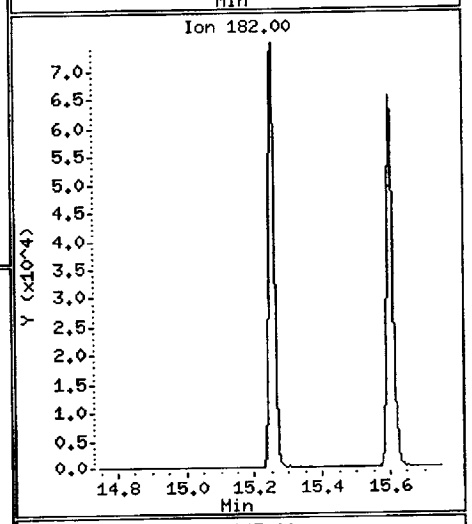


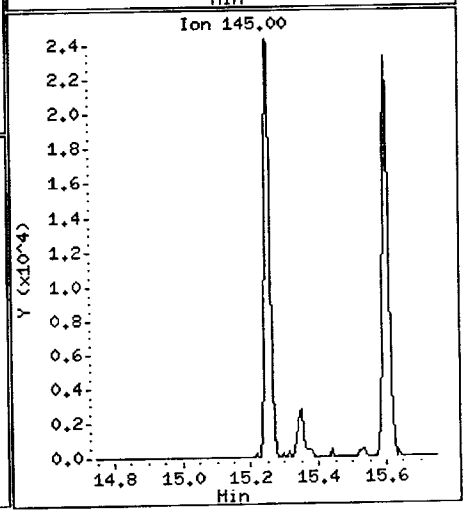












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Date : 25-SEP-2002 07:37

Client ID: 11Q30228MS

Instrument: vms03.i

Sample Info: 220910210;2209102;1;

Purge Volume: 5.0

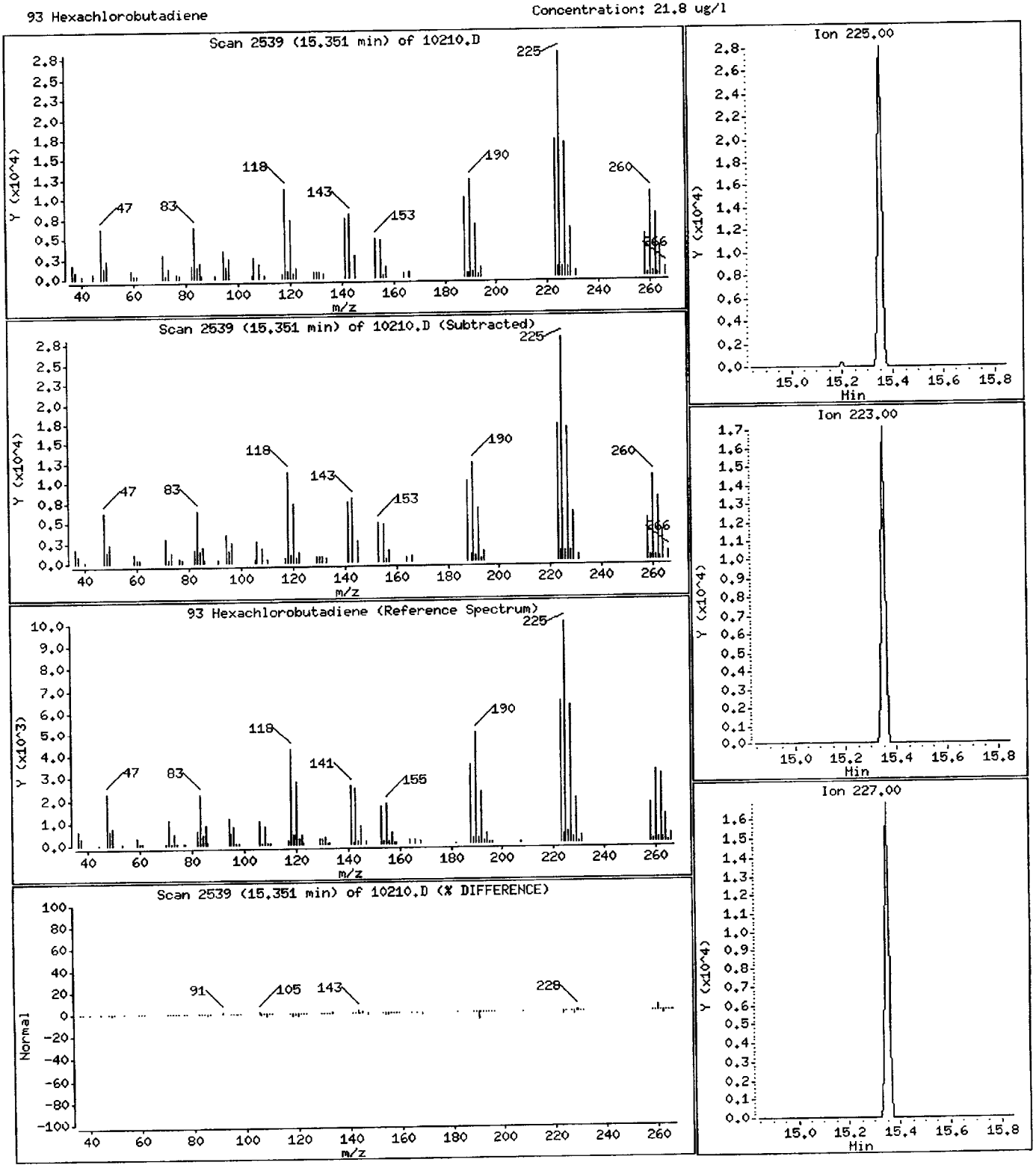
Operator:

Column phase: DB-624

Column diameter: 0.18

93 Hexachlorobutadiene

Concentration: 21.8 ug/l



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Date : 25-SEP-2002 07:37

Client ID: 11Q30228MS

Instrument: vms03.i

Sample Info: 220910210;2209102;1;

Purge Volume: 5.0

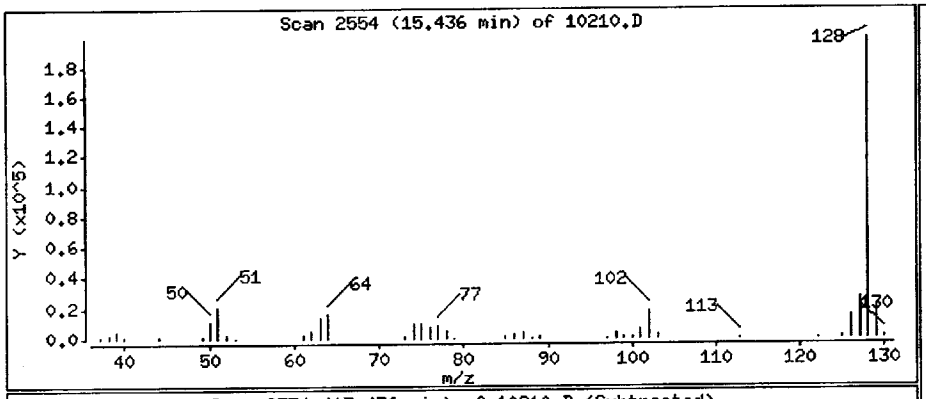
Operator:

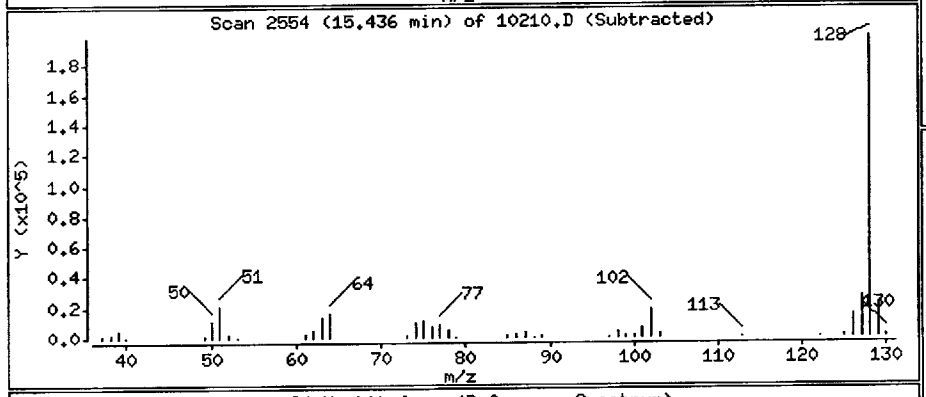
Column phase: DB-624

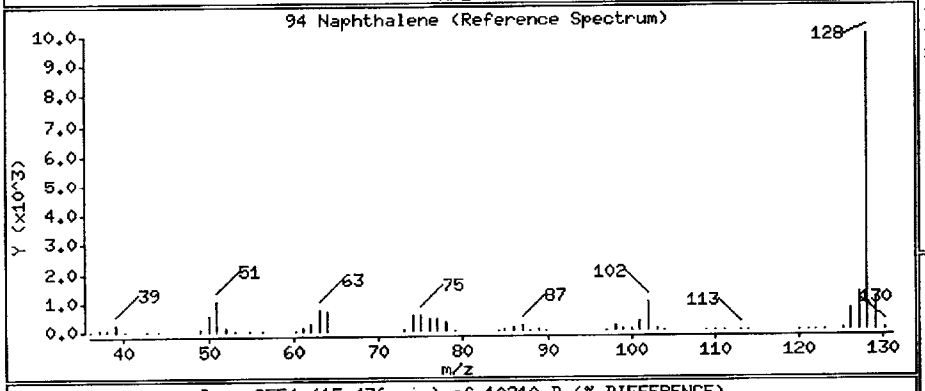
Column diameter: 0.18

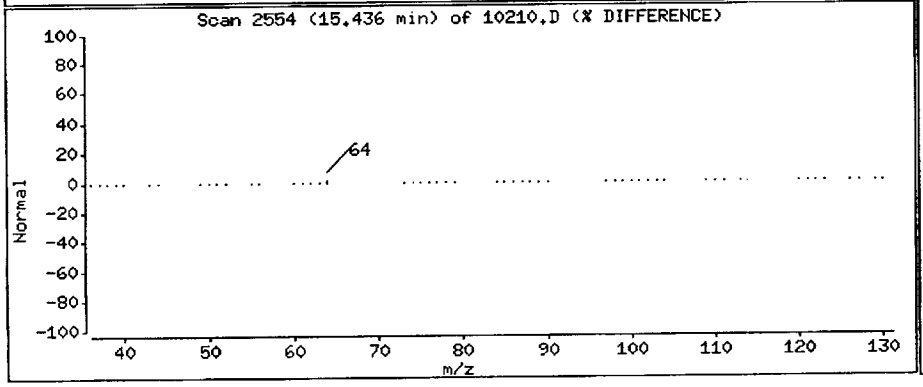
94 Naphthalene

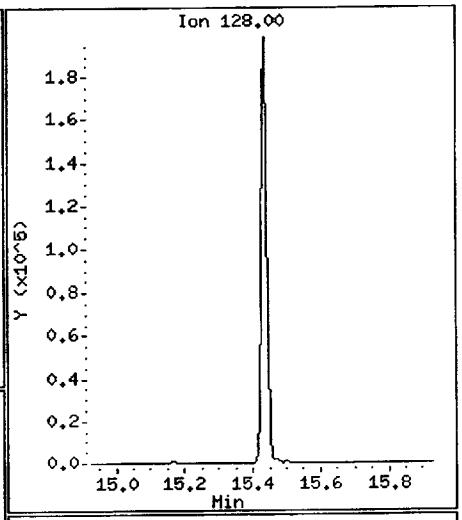
Concentration: 24.6 ug/l

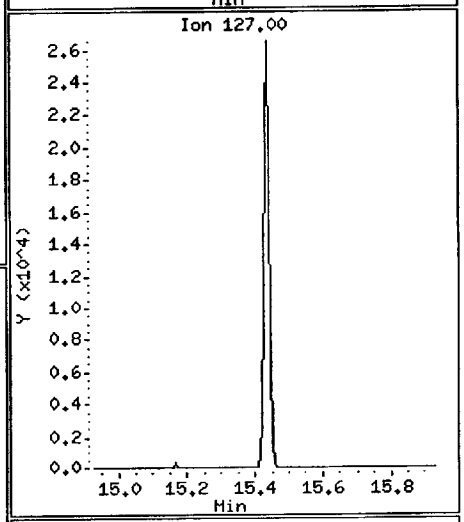


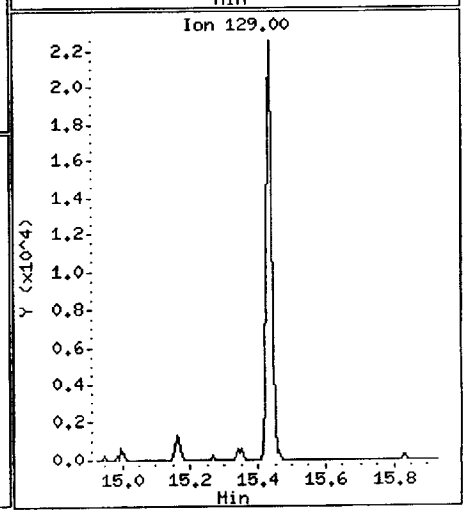












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10210.D

Date : 25-SEP-2002 07:37

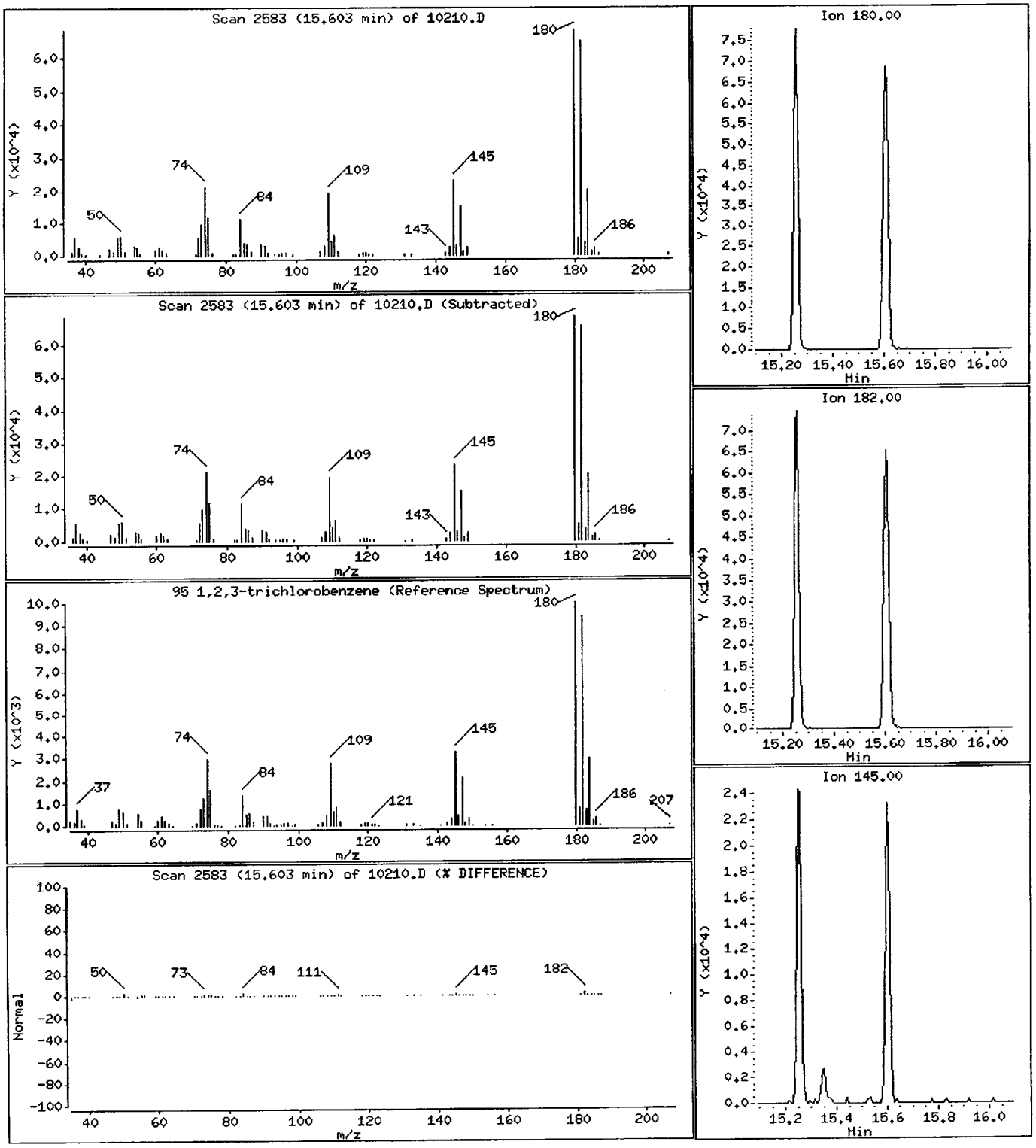
Client ID: 11Q30228MS | Instrument: vms03.i

Sample Info: 220910210;2209102;1;

Purge Volume: 5.0 | Operator:

Column phase: DB-624 | Column diameter: 0.18

95 1,2,3-trichlorobenzene | Concentration: 23.2 ug/l



Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10211.D
Report Date: 26-Sep-2002 08:47

PEL Laboratories, Inc.

Data file : \\Vms03\dd\chem\vms03.i\M3092502.b\10211.D
Lab Smp Id: 220910211 Client Smp ID: 11Q30228MSD
Inj Date : 25-SEP-2002 08:01 MS Autotune Date: 29-OCT-2001 10:36
Operator : Inst ID: vms03.i
Smp Info : 220910211;2209102;1;
Misc Info :
Comment :
Method : \\Vms03\dd\chem\vms03.i\M3092502.b\8260A.m
Meth Date : 26-Sep-2002 08:44 lpelo Quant Type: ISTD
Cal Date : 27-AUG-2002 09:41 Cal File: 80PPB.D
Als bottle: 7 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.04 Sample Matrix: WATER
Processing Host: PELCOMP01

Concentration Formula: Amt * DF * Vf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	Final Volume
Vo	5.000	Sample Volume

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/l)	FINAL (ug/l)	TARGET RANGE	RATIO
M 1 1,2-Dichloroethene (Total)						CAS #: 540-59-0		
				176763	41.0050	41.0		
M 2 Xylenes (Total)						CAS #: 1330-20-7		
				475130	64.3421	64.3		
M 3 Trihalomethanes (Total)						CAS #: THM		
				297743	79.7058	79.7		
4 Dichlorodifluoromethane						CAS #: 75-71-8		
1.640	1.637	(0.210)	85	98747	18.9297	18.9	70.00- 130.00	100.00
1.642	1.636	(0.211)	87	30834			0.55- 60.55	31.23
5 Chloromethane						CAS #: 74-87-3		
1.857	1.855	(0.238)	50	120880	18.9082	18.9	70.00- 130.00	100.00

Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10211.D
Report Date: 26-Sep-2002 08:47

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/l)	CONCENTRATIONS FINAL (ug/l)	TARGET RANGE	RATIO
5 Chloromethane (continued)								
1.856	1.855	(0.238)	52	38473			1.93- 61.93	31.83
6 Vinyl Chloride						CAS #: 75-01-4		
1.978	1.977	(0.254)	62	85681	18.7483	18.7	70.00- 130.00	100.00
1.979	1.976	(0.254)	64	26892			0.00- 59.68	31.39
7 Bromomethane						CAS #: 74-83-9		
2.450	2.447	(0.314)	94	53811			70.00- 130.00	100.00
2.449	2.446	(0.314)	96	49646	21.1245	21.1	61.69- 121.69	92.26
8 Chloroethane						CAS #: 75-00-3		
2.563	2.556	(0.329)	64	58664	20.5061	20.5	70.00- 130.00	100.00
2.552	2.556	(0.327)	66	19084			0.84- 60.84	32.53
9 Trichlorofluoromethane						CAS #: 75-69-4		
2.841	2.839	(0.364)	101	85071	21.4989	21.5	70.00- 130.00	100.00
2.845	2.841	(0.365)	103	54402			34.18- 94.18	63.95
2.850	2.836	(0.366)	66	5275			0.00- 43.49	6.20
10 Acrolein						CAS #: 107-02-8		
3.361	3.359	(0.431)	56	30489	55.0475	55.0	70.00- 130.00	100.00
3.363	3.355	(0.431)	55	22775			36.36- 96.36	74.70
11 1,1,2 Trichlorotrifluoromethane						CAS #: 76-13-1		
3.447	3.444	(0.442)	101	69005	22.8297	22.8	70.00- 130.00	100.00
3.458	3.452	(0.444)	151	51354			43.92- 103.92	74.42
3.461	3.452	(0.444)	103	44003			34.95- 94.95	63.77
12 Acetone						CAS #: 67-64-1		
3.461	3.458	(0.444)	43	72886	59.0235	59.0	70.00- 130.00	100.00
3.463	3.461	(0.444)	58	19191			0.00- 57.34	26.33
13 1,1-Dichloroethene						CAS #: 75-35-4		
3.670	3.663	(0.471)	61	114780	19.5340	19.5	70.00- 130.00	100.00
3.671	3.662	(0.471)	96	54446			17.54- 77.54	47.44
3.670	3.661	(0.471)	98	34448			0.72- 60.72	30.01
14 Acetonitrile						CAS #: 75-05-8		
3.845	3.838	(0.493)	41	93183	184.918	185	70.00- 130.00	100.00
3.846	3.836	(0.493)	40	48636			23.14- 83.14	52.19
3.843	3.839	(0.493)	39	18276			0.00- 49.01	19.61
15 Iodomethane						CAS #: 74-88-4		
4.132	4.131	(0.530)	142	99617	18.7944	18.8	70.00- 130.00	100.00
4.130	4.131	(0.530)	127	38757			9.89- 69.89	38.91

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RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/l)	CONCENTRATIONS FINAL (ug/l)	TARGET RANGE	RATIO
15 Iodomethane (continued)								
4.140	4.137	(0.531)	141	6940			0.00- 43.90	6.97
16 Methyl Acetate						CAS #: 79-20-9		
4.185	4.179	(0.537)	43	59743	19.1524	19.2		
17 Allyl Chloride						CAS #: 107-05-1		
4.211	4.206	(0.540)	41	115973	19.9283	19.9	70.00- 130.00	100.00
4.211	4.208	(0.540)	39	77680			35.11- 95.11	66.98
4.214	4.208	(0.541)	78	10115			0.00- 38.30	8.72
18 Carbon Disulfide						CAS #: 75-15-0		
4.376	4.372	(0.561)	76	213728	18.2018	18.2	70.00- 130.00	100.00
4.383	4.375	(0.562)	78	19018			0.00- 39.05	8.90
19 Methylene Chloride						CAS #: 75-09-2		
4.384	4.444	(0.562)	84	67952			70.00- 130.00	100.00(M)
4.447	4.444	(0.570)	49	120242	18.8422	18.8	144.57- 204.57	176.95
4.452	4.444	(0.571)	51	35708			18.00- 78.00	52.55
20 Acrylonitrile						CAS #: 107-13-1		
4.598	4.593	(0.590)	53	86241	62.0298	62.0	70.00- 130.00	100.00
4.601	4.594	(0.590)	52	71238			52.89- 112.89	82.60
4.599	4.595	(0.590)	51	33285			9.94- 69.94	38.60
21 Methyl-tert-butyl ether						CAS #: 1634-04-4		
4.675	4.667	(0.600)	73	201791	18.9384	18.9	70.00- 130.00	100.00
4.680	4.665	(0.600)	57	49966			0.00- 55.32	24.76
22 trans 1,2-Dichloroethene						CAS #: 156-60-5		
4.850	4.847	(0.622)	96	61632			70.00- 130.00	100.00
4.850	4.846	(0.622)	61	108227	20.4831	20.5	147.92- 207.92	175.60
4.854	4.847	(0.623)	98	39131			34.16- 94.16	63.49
23 1,1-Dichloroethane						CAS #: 75-34-3		
5.500	5.495	(0.706)	63	136699	20.6588	20.6	70.00- 130.00	100.00
5.504	5.494	(0.706)	65	41132			0.48- 60.48	30.09
5.495	5.495	(0.705)	83	15489			0.00- 41.53	11.33
24 Vinyl Acetate						CAS #: 108-05-4		
5.548	5.542	(0.712)	43	173399	18.0421	18.0	70.00- 130.00	100.00
5.545	5.543	(0.711)	86	12361			0.00- 36.86	7.13
25 Chloroprene						CAS #: 126-99-8		
5.637	5.631	(0.723)	53	77866	21.0970	21.1	70.00- 130.00	100.00
5.637	5.631	(0.723)	88	32791			12.64- 72.64	42.11

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RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/l)	FINAL (ug/l)	TARGET RANGE	RATIO
25 Chloroprene (continued)								
5.639	5.631	(0.723)	90	10095			0.00- 42.85	12.96
26 2-Butanone						CAS #: 78-93-3		
6.127	6.121	(0.786)	43	101352	56.7275	56.7	70.00- 130.00	100.00
6.128	6.121	(0.786)	72	20092			0.00- 48.66	19.82
27 Propionitrile						CAS #: 107-12-0		
6.209	6.202	(0.797)	54	104627	197.873	198	70.00- 130.00	100.00
6.208	6.203	(0.796)	52	21109			0.00- 50.80	20.18
6.206	6.202	(0.796)	55	17333			0.00- 46.22	16.57
28 2,2-Dichloropropane						CAS #: 594-20-7		
6.284	6.279	(0.806)	77	67786	20.1937	20.2	70.00- 130.00	100.00
6.284	6.278	(0.806)	79	22392			1.13- 61.13	33.03
6.282	6.282	(0.806)	97	14521			0.00- 46.48	21.42
29 cis-1,2-Dichloroethene						CAS #: 156-59-2		
6.336	6.333	(0.813)	96	68536	20.5219	20.5	70.00- 130.00	100.00
6.336	6.333	(0.813)	61	121086			138.35- 198.35	176.68
6.336	6.332	(0.813)	98	44763			33.14- 93.14	65.31
30 Methyacrylonitrile						CAS #: 126-98-7		
6.468	6.463	(0.830)	67	254841	196.836	197	70.00- 130.00	100.00
6.470	6.464	(0.830)	66	93034			5.60- 65.60	36.51
6.468	6.463	(0.830)	52	125875			19.69- 79.69	49.39
31 Isobutyl Alcohol						CAS #: 78-83-1		
6.540	6.530	(0.839)	43	62660	383.632	384	70.00- 130.00	100.00
6.539	6.530	(0.839)	42	37321			32.37- 92.37	59.56
6.537	6.524	(0.839)	41	67014			82.09- 142.09	106.95
32 Chloroform						CAS #: 67-66-3		
6.542	6.540	(0.839)	83	119916	19.8592	19.8	70.00- 130.00	100.00
6.543	6.541	(0.839)	85	78603			35.25- 95.25	65.55
6.544	6.539	(0.839)	47	35239			0.00- 59.31	29.39
33 Bromochloromethane						CAS #: 74-97-5		
6.741	6.736	(0.865)	128	30546	21.0155	21.0	70.00- 130.00	100.00
6.739	6.735	(0.864)	49	79258			225.60- 285.60	259.47
6.737	6.738	(0.864)	130	39992			97.87- 157.87	130.92
$ 34 DIBROMOFLUOROMETHANE (surr)						CAS #: 1868-53-7		
6.814	6.810	(0.874)	113	138479	49.2448	49.2	70.00- 130.00	100.00
6.814	6.811	(0.874)	111	144506			71.10- 131.10	104.35
6.818	6.812	(0.875)	192	25543			0.00- 48.24	18.45

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RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/l)	FINAL (ug/l)	TARGET RANGE	RATIO
35 1,1,1-Trichloroethane						CAS #: 71-55-6		
7.043	7.038	(0.904)	97	99918	20.4917	20.5	70.00- 130.00	100.00
7.039	7.036	(0.903)	99	64039			34.68- 94.68	64.09
7.045	7.039	(0.904)	117	10974			0.00- 41.74	10.98
36 Cyclohexane						CAS #: 110-82-7		
7.058	7.054	(0.906)	56	150794	20.1274	20.1	70.00- 130.00	100.00
7.064	7.057	(0.906)	84	105100			39.74- 99.74	69.70
7.057	7.056	(0.905)	41	90483			30.71- 90.71	60.00
37 1,1-Dichloropropene						CAS #: 563-58-6		
7.233	7.229	(0.928)	75	94208	20.5774	20.6	70.00- 130.00	100.00
7.231	7.231	(0.928)	77	28881			0.90- 60.90	30.66
7.235	7.230	(0.928)	110	30453			1.48- 61.48	32.33
38 Carbon tetrachloride						CAS #: 56-23-5		
7.343	7.339	(0.942)	117	76368	19.4651	19.5	70.00- 130.00	100.00
7.342	7.341	(0.942)	119	71403			67.59- 127.59	93.50
7.343	7.340	(0.942)	121	22759			0.64- 60.64	29.80
$ 39 1,2-DICHLOROETHANE d4 (surr)						CAS #: 17060-07-0		
7.417	7.416	(0.951)	102	33960	50.0140	50.0	70.00- 130.00	100.00
7.417	7.414	(0.952)	65	214392			587.58- 647.58	631.31
7.417	7.414	(0.952)	67	107693			285.16- 345.16	317.12
40 1,2-Dichloroethane						CAS #: 107-06-2		
7.528	7.524	(0.966)	62	115700	20.7666	20.8	70.00- 130.00	100.00
7.526	7.524	(0.965)	64	35534			1.49- 61.49	30.71
7.529	7.526	(0.966)	98	7860			0.00- 36.96	6.79
41 Benzene						CAS #: 71-43-2		
7.540	7.536	(0.967)	78	271307	20.2170	20.2	70.00- 130.00	100.00
7.537	7.536	(0.967)	52	57300			0.00- 50.97	21.12
7.541	7.536	(0.967)	77	63617			0.00- 53.15	23.45
* 42 FLUOROBENZENE (IS)						CAS #: 462-06-6		
7.795	7.791	(1.000)	96	560540	50.0000		70.00- 130.00	100.00
7.795	7.792	(1.000)	70	119994			0.00- 51.39	21.41
7.794	7.792	(1.000)	50	82280			0.00- 44.57	14.68
43 Trichloroethylene						CAS #: 79-01-6		
8.240	8.237	(1.057)	130	63773	21.0469	21.0	70.00- 130.00	100.00
8.239	8.236	(1.057)	95	68799			79.37- 139.37	107.88
8.240	8.235	(1.057)	97	44878			40.66- 100.66	70.37
44 Methyl Cyclohexane						CAS #: 108-87-2		
8.314	8.312	(1.067)	83	114031			70.00- 130.00	100.00

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RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/l)	FINAL (ug/l)	TARGET RANGE	RATIO
44 Methyl Cyclohexane (continued)								
8.316	8.310	(1.067)	55	113648	19.5616	19.6	67.97- 127.97	99.66
8.312	8.310	(1.066)	41	63729			25.40- 85.40	55.89
45 1,2-Dichloropropane						CAS #: 78-87-5		
8.435	8.431	(1.082)	63	79006	20.6362	20.6	70.00- 130.00	100.00
8.433	8.431	(1.082)	62	60051			43.11- 103.11	76.01
8.433	8.432	(1.082)	76	33380			10.96- 70.96	42.25
46 Methyl Methacrylate						CAS #: 80-62-6		
8.518	8.515	(1.093)	69	45060	19.9527	20.0	70.00- 130.00	100.00
8.520	8.515	(1.093)	41	73168			135.62- 195.62	162.38
47 Bromodichloromethane						CAS #: 75-27-4		
8.682	8.681	(1.114)	83	90814	19.9672	20.0	70.00- 130.00	100.00
8.684	8.681	(1.114)	85	56898			34.44- 94.44	62.65
48 1,4 Dioxane						CAS #: 123-91-1		
8.722	8.715	(1.119)	88	10155	362.071	362	70.00- 130.00	100.00
8.722	8.714	(1.119)	58	8745			51.84- 111.84	86.12
8.717	8.717	(1.118)	43	3722			7.34- 67.34	36.65
49 Dibromomethane						CAS #: 74-95-3		
8.733	8.732	(1.120)	93	39546	20.3772	20.4	70.00- 130.00	100.00
8.734	8.731	(1.120)	95	31962			52.28- 112.28	80.82
8.735	8.735	(1.121)	174	37506			59.94- 119.94	94.84
50 4-Methyl-2-Pentanone						CAS #: 108-10-1		
9.064	9.061	(1.163)	43	216565			70.00- 130.00	100.00
9.064	9.061	(1.163)	58	77109	61.8373	61.8	5.16- 65.16	35.61
9.065	9.064	(1.163)	100	24026			0.00- 40.69	11.09
51 2-Hexanone						CAS #: 591-78-6		
9.968	9.965	(0.900)	43	148846	62.1538	62.2	70.00- 130.00	100.00
9.967	9.965	(0.900)	58	73757			18.00- 78.00	49.55
52 cis 1,3-Dichloropropene						CAS #: 10061-01-5		
9.269	9.267	(1.189)	75	108397	20.6625	20.7	70.00- 130.00	100.00
9.270	9.266	(1.189)	77	35402			2.17- 62.17	32.66
9.269	9.267	(1.189)	110	22124			0.00- 50.44	20.41
$ 53 TOLUENE d8 (surr)						CAS #: 2037-26-5		
9.524	9.522	(1.222)	98	588524	49.3818	49.4	70.00- 130.00	100.00
9.523	9.522	(1.222)	70	67359			0.00- 41.87	11.45
9.524	9.522	(1.222)	100	391689			35.37- 95.37	66.55

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RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/l)	FINAL (ug/l)	TARGET RANGE	RATIO
54 Toluene						CAS #: 108-88-3		
9.606	9.604	(1.232)	92	162337	20.7489	20.7	70.00- 130.00	100.00
9.606	9.604	(1.232)	91	273251			140.41- 200.41	168.32
9.606	9.603	(1.232)	65	35931			0.00- 52.96	22.13
55 trans 1,3-Dichloropropene						CAS #: 10061-02-6		
9.791	9.789	(1.256)	75	101045	21.0184	21.0	70.00- 130.00	100.00
9.792	9.789	(1.256)	77	32563			1.62- 61.62	32.23
9.792	9.790	(1.256)	110	20216			0.00- 51.52	20.01
56 Ethyl Methacrylate						CAS #: 97-63-2		
9.791	9.788	(1.256)	69	85372	20.8214	20.8	70.00- 130.00	100.00
9.792	9.788	(1.256)	99	16458			0.00- 48.62	19.28
57 1,1,2-Trichloroethane						CAS #: 79-00-5		
9.951	9.950	(1.277)	97	56316	20.2681	20.3	70.00- 130.00	100.00
9.952	9.949	(1.277)	83	49181			55.39- 115.39	87.33
9.954	9.951	(1.277)	85	41012			37.04- 97.04	72.82
58 1,3-Dichloropropane						CAS #: 142-28-9		
10.211	10.208	(0.922)	76	106466	20.5930	20.6	70.00- 130.00	100.00
10.212	10.209	(0.922)	78	34023			1.97- 61.97	31.96
10.211	10.209	(0.922)	63	12075			0.00- 41.34	11.34
59 Tetrachloroethylene						CAS #: 127-18-4		
10.282	10.279	(0.928)	164	49477	21.2968	21.3	70.00- 130.00	100.00
10.281	10.280	(0.928)	129	48902			69.25- 129.25	98.84
10.283	10.279	(0.928)	166	63994			98.19- 158.19	129.34
60 Dibromochloromethane						CAS #: 124-48-1		
10.481	10.478	(0.946)	129	55558	21.0301	21.0	70.00- 130.00	100.00
10.479	10.478	(0.946)	127	42250			46.39- 106.39	76.05
61 1,2-Dibromoethane						CAS #: 106-93-4		
10.685	10.684	(0.965)	107	55423	20.9748	21.0	70.00- 130.00	100.00
10.686	10.683	(0.965)	109	52273			64.40- 124.40	94.32
62 1-Chlorohexane						CAS #: 544-10-5		
10.856	10.854	(0.980)	91	90076	22.3823	22.4	70.00- 130.00	100.00
10.856	10.853	(0.980)	55	79355			57.74- 117.74	88.10
10.855	10.853	(0.980)	56	46152			23.70- 83.70	51.24
* 63 CHLOROBENZENE d5 (IS)						CAS #: 3114-55-4		
11.075	11.073	(1.000)	117	392094	50.0000		70.00- 130.00	100.00
11.076	11.074	(1.000)	119	125562			1.25- 61.25	32.02
11.074	11.073	(1.000)	82	239195			30.45- 90.45	61.00

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64 Chlorobenzene						CAS #: 108-90-7		
11.114	11.113	(1.004)	112	168232	20.8272	20.8	70.00- 130.00	100.00
11.116	11.112	(1.004)	114	54427			2.19- 62.19	32.35
11.114	11.112	(1.003)	77	118849			37.84- 97.84	70.65
65 1,1,1,2-Tetrachloroethane						CAS #: 630-20-6		
11.157	11.155	(1.007)	131	53737	21.1482	21.1	70.00- 130.00	100.00
11.156	11.155	(1.007)	117	39337			38.30- 98.30	73.20
11.156	11.154	(1.007)	95	22680			12.98- 72.98	42.21
66 Ethylbenzene						CAS #: 100-41-4		
11.169	11.167	(1.008)	106	89726	20.7587	20.8	70.00- 130.00	100.00
11.169	11.167	(1.008)	91	309679			312.23- 372.23	345.14
11.168	11.165	(1.008)	77	31125			2.29- 62.29	34.69
67 p,m-Xylene						CAS #: 511-39-00		
11.246	11.244	(1.015)	106	230352	43.2341	43.2	70.00- 130.00	100.00
11.246	11.244	(1.015)	91	497639			187.97- 247.97	216.03
11.246	11.244	(1.015)	105	104036			16.30- 76.30	45.16
68 o-Xylene						CAS #: 95-47-6		
11.688	11.686	(1.055)	91	244778	21.1080	21.1	70.00- 130.00	100.00
11.687	11.686	(1.055)	106	107408			13.30- 73.30	43.88
11.689	11.686	(1.055)	77	28511			0.00- 42.08	11.65
69 Styrene						CAS #: 100-42-5		
11.721	11.719	(1.058)	104	190508	21.0582	21.0	70.00- 130.00	100.00
11.721	11.718	(1.058)	103	103017			23.82- 83.82	54.07
11.720	11.718	(1.058)	78	109397			28.80- 88.80	57.42
70 Bromoform						CAS #: 75-25-2		
12.061	12.061	(1.089)	173	31455	18.8493	18.8	70.00- 130.00	100.00
12.064	12.061	(1.089)	175	14673			18.94- 78.94	46.65
71 1-Methylethylbenzene						CAS #: 98-82-8		
12.050	12.048	(0.893)	105	283483	21.1991	21.2	70.00- 130.00	100.00
12.050	12.048	(0.892)	120	72498			0.00- 55.21	25.57
12.050	12.048	(0.892)	77	54849			0.00- 47.14	19.35
72 1,4-Dichloro-2-Butene						CAS #: 110-57-6		
12.088	12.085	(0.895)	53	21798	38.3183	38.3	70.00- 130.00	100.00
12.087	12.086	(0.895)	75	17212			53.97- 113.97	78.96
12.087	12.085	(0.895)	89	7525			8.13- 68.13	34.52
73 1,1,2,2-Tetrachloroethane						CAS #: 79-34-5		
12.215	12.213	(0.905)	83	72573	21.1065	21.1	70.00- 130.00	100.00

Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10211.D
Report Date: 26-Sep-2002 08:47

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/l)	CONCENTRATIONS FINAL (ug/l)	TARGET RANGE	RATIO
73 1,1,2,2-Tetrachloroethane (continued)								
12.215	12.213	(0.905)	85	46387			34.75- 94.75	63.92
12.215	12.213	(0.905)	133	6463			0.00- 38.88	8.91
$ 74 4-BROMOFLUOROBENZENE (surr)						CAS #: 460-00-4		
12.301	12.299	(0.911)	95	224474	51.1618	51.2	70.00- 130.00	100.00
12.302	12.301	(0.911)	174	154218			40.89- 100.89	68.70
12.303	12.300	(0.911)	176	149702			37.00- 97.00	66.69
75 1,2,3- trichloropropane						CAS #: 96-18-4		
12.363	12.362	(0.916)	75	64639			70.00- 130.00	100.00
12.364	12.362	(0.916)	77	19494			1.79- 61.79	30.16
12.363	12.363	(0.916)	110	22298	21.3357	21.3	4.39- 64.39	34.50
76 n-Propylbenzene						CAS #: 103-65-1		
12.455	12.454	(0.923)	91	356466	21.4285	21.4	70.00- 130.00	100.00
12.455	12.453	(0.922)	92	38061			0.00- 40.57	10.68
12.456	12.455	(0.923)	120	78114			0.00- 51.30	21.91
77 Bromobenzene						CAS #: 108-86-1		
12.500	12.498	(0.926)	77	135800	21.0040	21.0	70.00- 130.00	100.00
12.502	12.501	(0.926)	156	70521			22.90- 82.90	51.93
12.503	12.500	(0.926)	158	68388			21.34- 81.34	50.36
78 1,3,5-Trimethylbenzene						CAS #: 108-67-8		
12.613	12.612	(0.934)	105	245841	21.1592	21.2	70.00- 130.00	100.00
12.614	12.612	(0.934)	120	117148			16.83- 76.83	47.65
12.612	12.611	(0.934)	77	36216			0.00- 44.20	14.73
79 2-Chlorotoluene						CAS #: 95-49-8		
12.637	12.634	(0.936)	91	244130	20.7945	20.8	70.00- 130.00	100.00
12.638	12.636	(0.936)	126	65107			0.00- 55.26	26.67
12.635	12.633	(0.936)	63	46199			0.00- 48.68	18.92
80 4-Chlorotoluene						CAS #: 106-43-4		
12.683	12.681	(0.939)	91	238814	21.5327	21.5	70.00- 130.00	100.00
12.683	12.681	(0.939)	126	68301			0.10- 60.10	28.60
12.682	12.680	(0.939)	63	32250			0.00- 43.98	13.50
81 tert-Butylbenzene						CAS #: 98-06-6		
12.976	12.974	(0.961)	119	230666	21.2892	21.3	70.00- 130.00	100.00
12.976	12.973	(0.961)	91	177677			45.45- 105.45	77.03
12.976	12.974	(0.961)	134	46576			0.00- 50.34	20.19
82 1,2,4-trimethylbenzene						CAS #: 95-63-6		
13.013	13.012	(0.964)	105	247688	21.7120	21.7	70.00- 130.00	100.00

Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10211.D
Report Date: 26-Sep-2002 08:47

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/l)	FINAL (ug/l)	TARGET RANGE	RATIO
82 1,2,4-trimethylbenzene (continued)								
13.014	13.011	(0.964)	120	109699			14.42- 74.42	44.29
13.013	13.009	(0.964)	77	34825			0.00- 43.58	14.06
83 sec-Butylbenzene							CAS #: 135-98-8	
13.191	13.190	(0.977)	105	290614	20.7162	20.7	70.00- 130.00	100.00
13.192	13.191	(0.977)	134	53848			0.00- 48.42	18.53
13.191	13.189	(0.977)	91	49305			0.00- 46.62	16.97
84 p-Isopropyltoluene							CAS #: 99-87-6	
13.328	13.326	(0.987)	119	252250	21.2368	21.2	70.00- 130.00	100.00
13.330	13.327	(0.987)	134	62889			0.00- 55.02	24.93
13.327	13.326	(0.987)	91	65408			0.00- 55.58	25.93
85 1,3-Dichlorobenzene							CAS #: 541-73-1	
13.428	13.426	(0.995)	146	133943	21.0369	21.0	70.00- 130.00	100.00
13.428	13.426	(0.995)	148	84864			34.79- 94.79	63.36
13.427	13.425	(0.994)	111	59066			13.11- 73.11	44.10
* 86 1,4-DICHLOROBENZENE-d4 (IS)							CAS #: 3855-82-1	
13.501	13.500	(1.000)	152	206024	50.0000		70.00- 130.00	100.00
13.501	13.500	(1.000)	150	335568			147.70- 207.70	162.88
13.501	13.499	(1.000)	115	132471			34.24- 94.24	64.30
87 1,4-Dichlorobenzene							CAS #: 106-46-7	
13.534	13.532	(1.002)	146	135238	20.8497	20.8	70.00- 130.00	100.00
13.534	13.532	(1.002)	148	87782			34.35- 94.35	64.91
13.532	13.532	(1.002)	111	60461			12.68- 72.68	44.71
88 Benzyl Chloride							CAS #: 100-44-7	
13.648	13.646	(1.011)	91	100152	18.5563	18.6	70.00- 130.00	100.00
13.647	13.644	(1.011)	65	13583			0.00- 43.51	13.56
89 n-Butylbenzene							CAS #: 104-51-8	
13.742	13.740	(1.018)	91	222465	20.6976	20.7	70.00- 130.00	100.00
13.742	13.740	(1.018)	92	122457			24.40- 84.40	55.05
13.744	13.741	(1.018)	134	54278			0.00- 54.24	24.40
90 1,2-Dichlorobenzene							CAS #: 95-50-1	
13.911	13.909	(1.030)	146	125178	20.8597	20.8	70.00- 130.00	100.00
13.911	13.909	(1.030)	148	77354			33.76- 93.76	61.80
13.910	13.908	(1.030)	111	56386			15.28- 75.28	45.04
91 1,2-dibromo-3-chloropropane							CAS #: 96-12-8	
14.597	14.592	(1.081)	75	14221	19.7166	19.7	70.00- 130.00	100.00
14.600	14.594	(1.081)	155	10057			41.95- 101.95	70.72

Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10211.D
Report Date: 26-Sep-2002 08:47

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/l)	FINAL (ug/l)	TARGET RANGE	RATIO
91 1,2-dibromo-3-chloropropane (continued)								
14.599	14.594	(1.081)	157	13672			61.28- 121.28	96.14
92 1,2,4-Trichlorobenzene						CAS #: 120-82-1		
15.259	15.246	(1.130)	180	89754	21.4138	21.4	70.00- 130.00	100.00
15.259	15.246	(1.130)	182	85876			65.73- 125.73	95.68
15.258	15.245	(1.130)	145	28629			2.14- 62.14	31.90
93 Hexachlorobutadiene						CAS #: 87-68-3		
15.356	15.343	(1.137)	225	32421			70.00- 130.00	100.00
15.356	15.342	(1.137)	223	19326	20.6672	20.7	33.12- 93.12	59.61
15.357	15.343	(1.137)	227	19218			35.04- 95.04	59.28
94 Naphthalene						CAS #: 91-20-3		
15.442	15.427	(1.144)	128	226746	23.7463	23.7	70.00- 130.00	100.00
15.442	15.427	(1.144)	127	28492			0.00- 42.70	12.57
15.442	15.427	(1.144)	129	25639			0.00- 40.83	11.31
95 1,2,3-trichlorobenzene						CAS #: 87-61-6		
15.610	15.595	(1.156)	180	84128	22.4229	22.4	70.00- 130.00	100.00
15.610	15.595	(1.156)	182	78004			66.42- 126.42	92.72
15.610	15.594	(1.156)	145	27273			3.71- 63.71	32.42

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10211.D
Report Date: 26-Sep-2002 08:47

PEL Laboratories, Inc.

Data file : \\Vms03\dd\chem\vms03.i\M3092502.b\10211.D
Lab Smp Id: 220910211 Client Smp ID: 11Q30228MSD
Inj Date : 25-SEP-2002 08:01 MS Autotune Date: 29-OCT-2001 10:36
Operator : Inst ID: vms03.i
Smp Info : 220910211;2209102;1;
Misc Info :
Comment :
Method : \\Vms03\dd\chem\vms03.i\M3092502.b\8260A.m
Meth Date : 26-Sep-2002 08:44 lpelo Quant Type: ISTD
Cal Date : 27-AUG-2002 09:41 Cal File: 80PPB.D
Als bottle: 7 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.04 Sample Matrix: WATER
Processing Host: PELCOMP01

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10211.D
Report Date: 26-Sep-2002 08:47

PEL Laboratories, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vms03.i
Lab File ID: 10211.D
Lab Smp Id: 220910211
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\Vms03\dd\chem\vms03.i\M3092502.b\8260A.m
Misc Info:

Calibration Date: 25-SEP-2002
Calibration Time: 06:02
Client Smp ID: 11Q30228MSD
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
42 FLUOROBENZENE (IS	556115	278058	1112230	560540	0.80
63 CHLOROBENZENE d5	400449	200225	800898	392094	-2.09
86 1,4-DICHLOROBENZE	210064	105032	420128	206024	-1.92

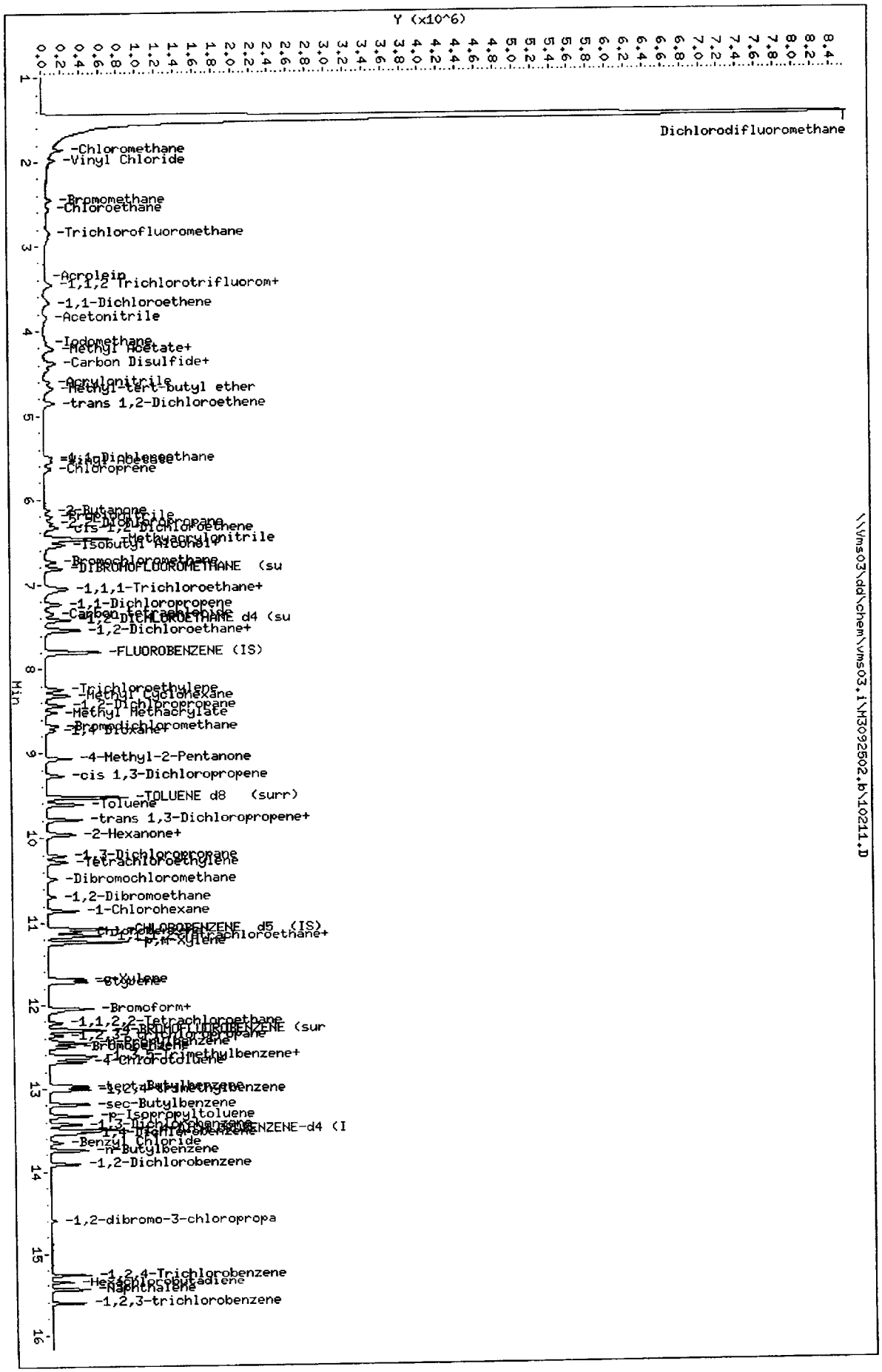
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
42 FLUOROBENZENE (IS	7.79	7.29	8.29	7.80	0.05
63 CHLOROBENZENE d5	11.07	10.57	11.57	11.08	0.02
86 1,4-DICHLOROBENZE	13.50	13.00	14.00	13.50	0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\Vms03\dd\chem\vms03.i\H3092502.b\10211.D
Date : 25-SEP-2002 08:01
Client ID: 11Q30228HSD
Sample Info: 220910211;220910211;
Purge Volume: 5.0
Column phase: DB-624

Instrument: vms03.i
Operator:
Column diameter: 0.18

\\Vms03\dd\chem\vms03.i\H3092502.b\10211.D



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Date : 25-SEP-2002 08:01

Client ID: 11Q30228HSD

Instrument: vms03.i

Sample Info: 220910211;2209102;1;

Purge Volume: 5.0

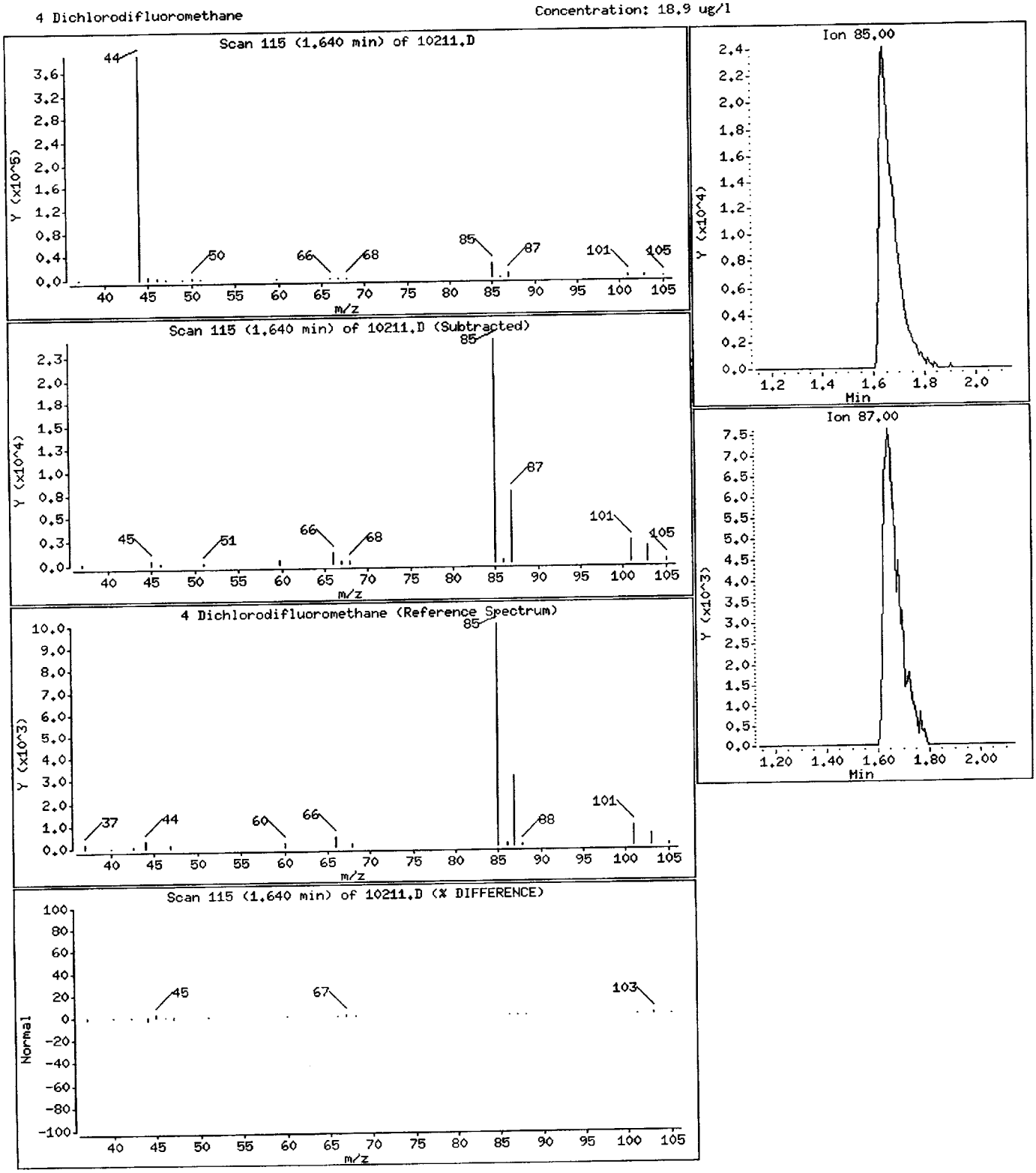
Operator:

Column phase: DB-624

Column diameter: 0.18

4 Dichlorodifluoromethane

Concentration: 18.9 ug/l



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Date : 25-SEP-2002 08:01

Client ID: 11Q30228MSD

Instrument: vms03.i

Sample Info: 220910211;2209102;1;

Purge Volume: 5.0

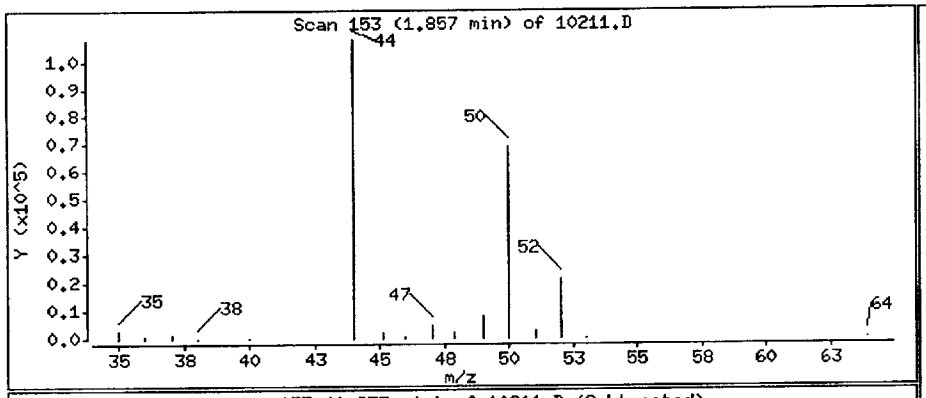
Operator:

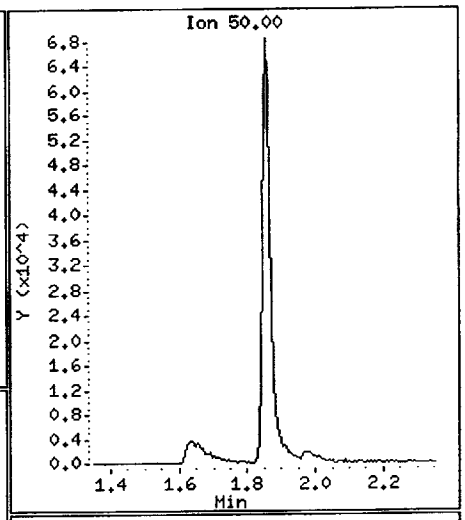
Column phase: DB-624

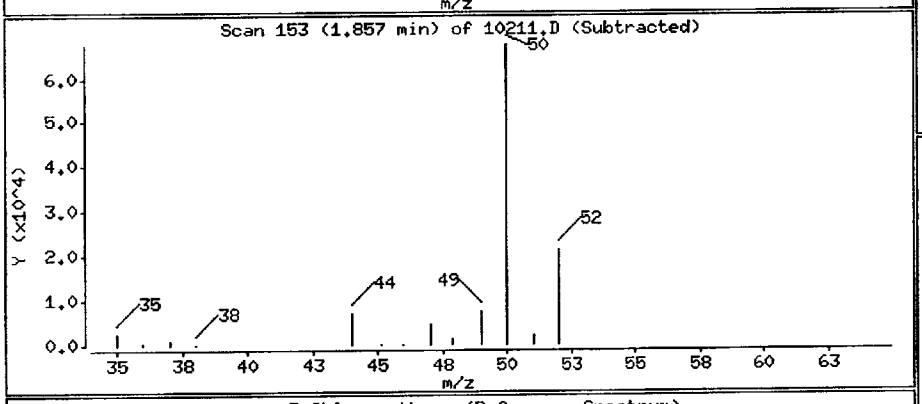
Column diameter: 0.18

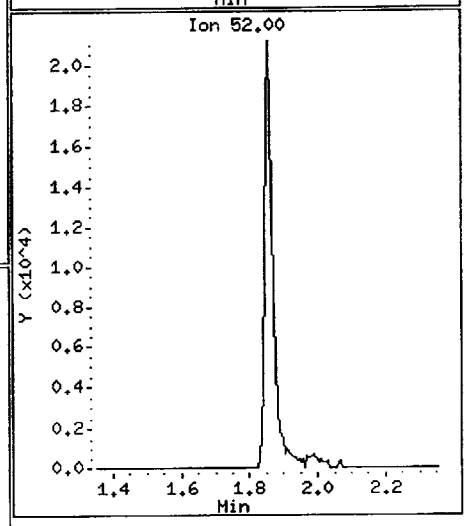
5 Chloromethane

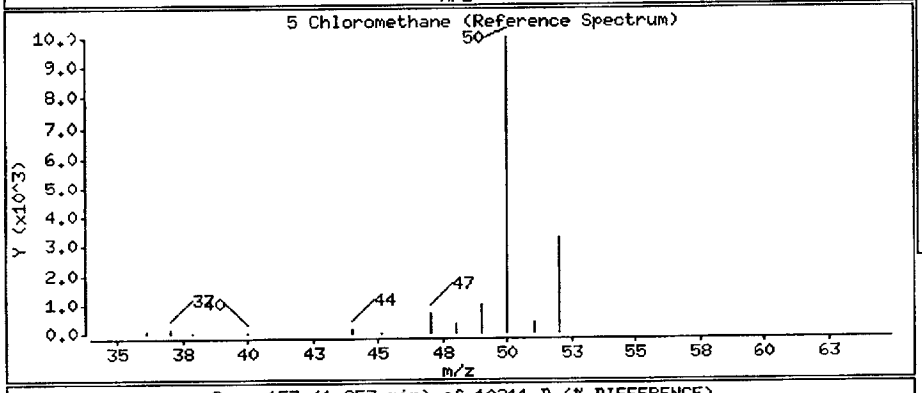
Concentration: 18.9 ug/l

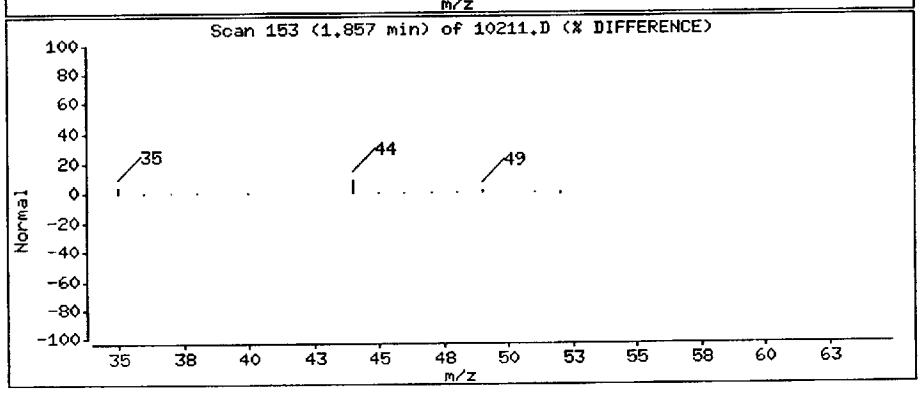












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Date : 25-SEP-2002 08:01

Client ID: 11Q30228MSD

Instrument: vms03.i

Sample Info: 220910211;2209102;1;

Purge Volume: 5.0

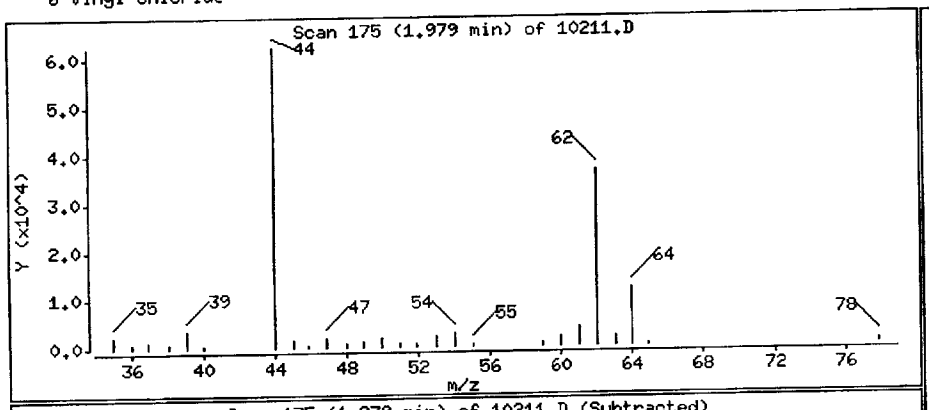
Operator:

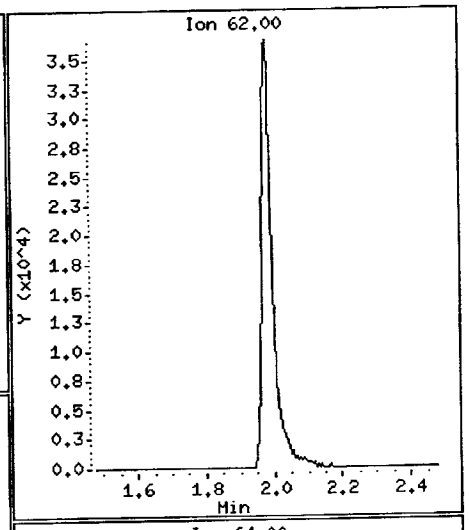
Column phase: DB-624

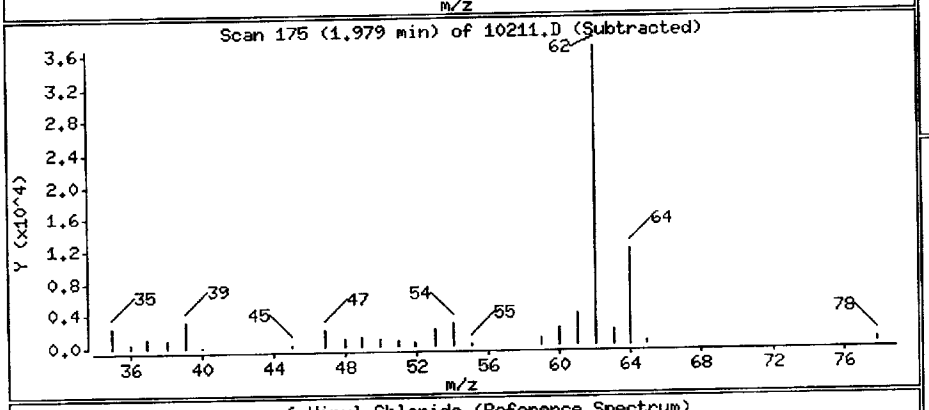
Column diameter: 0.18

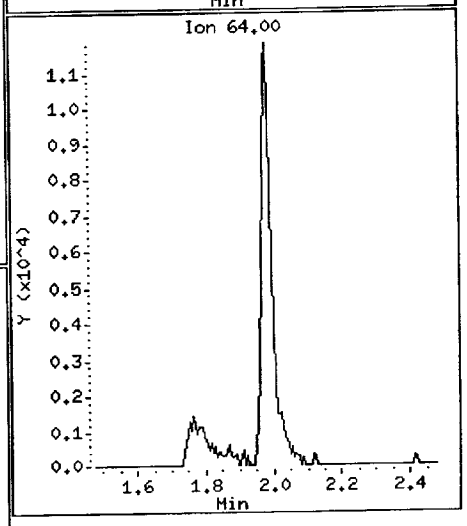
6 Vinyl Chloride

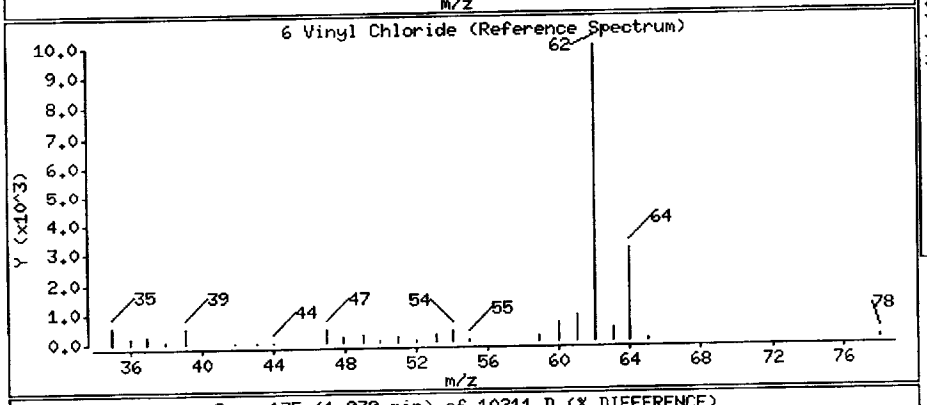
Concentration: 18.7 ug/l

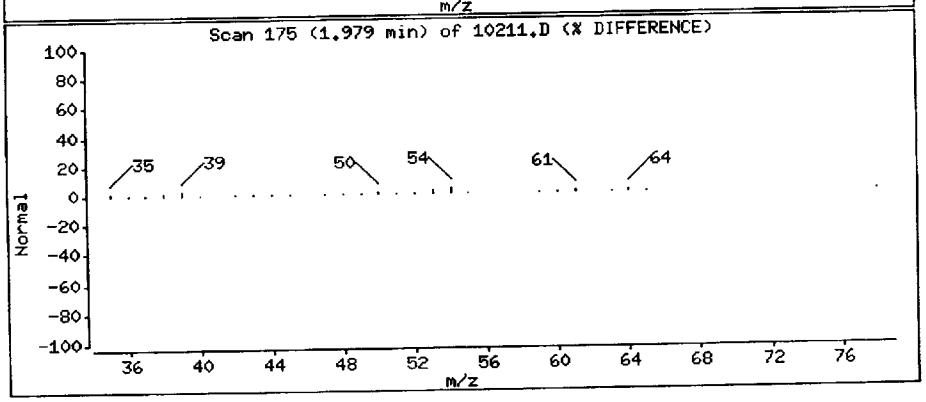












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Date : 25-SEP-2002 08:01

Client ID: 11Q30228MSD

Instrument: vms03.i

Sample Info: 220910211;2209102;1;

Purge Volume: 5.0

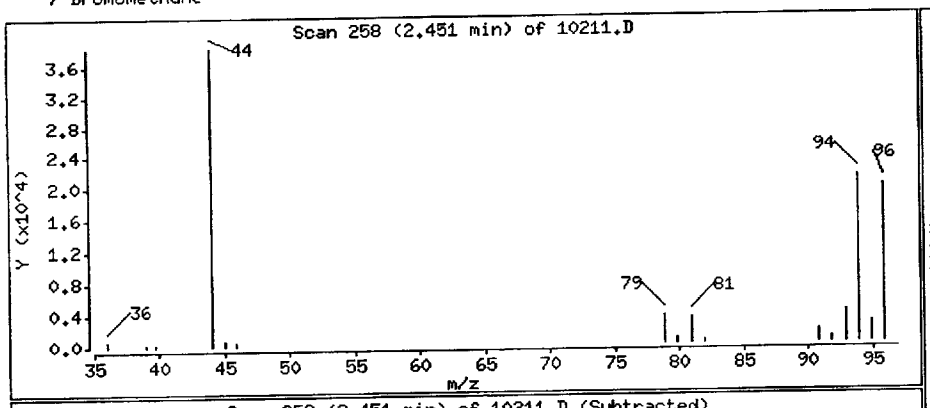
Operator:

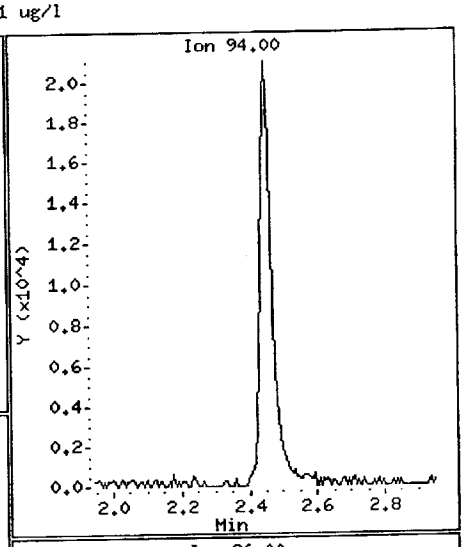
Column phase: DB-624

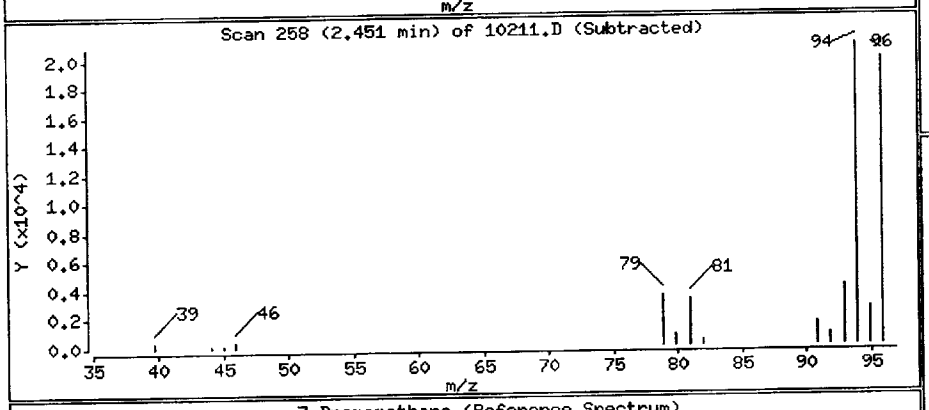
Column diameter: 0.18

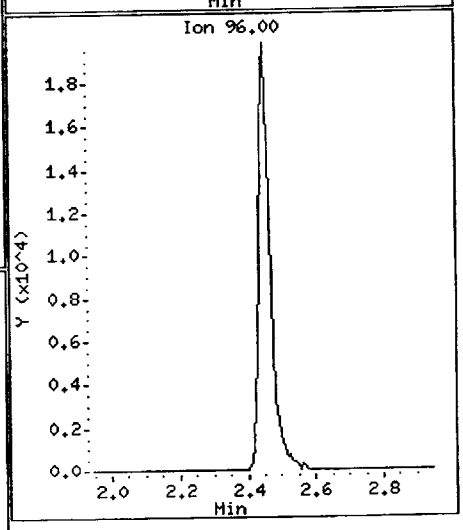
7 Bromomethane

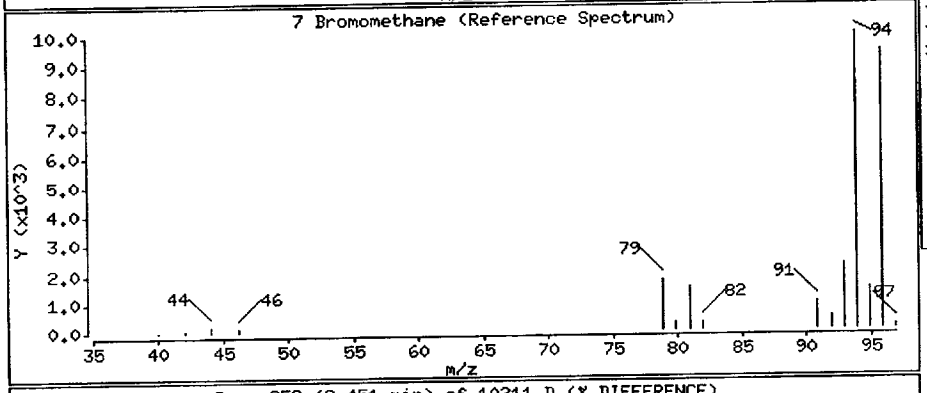
Concentration: 21.1 ug/l

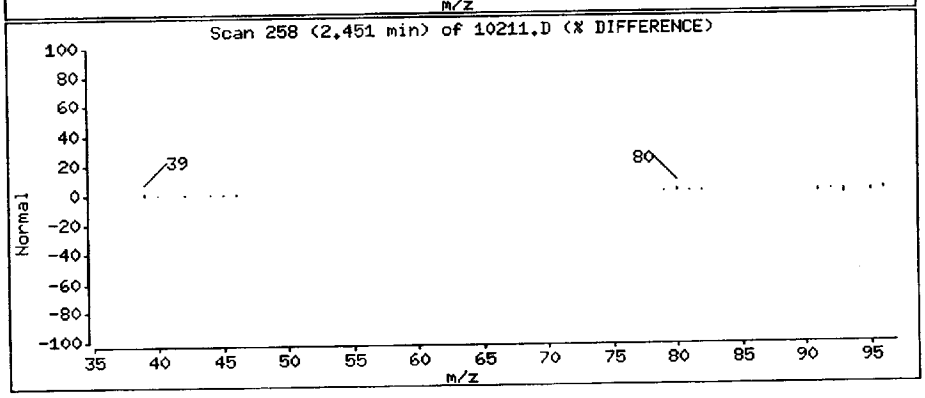












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Date : 25-SEP-2002 08:01

Client ID: 11Q30228MSD

Instrument: vms03.i

Sample Info: 220910211;2209102;1;

Purge Volume: 5.0

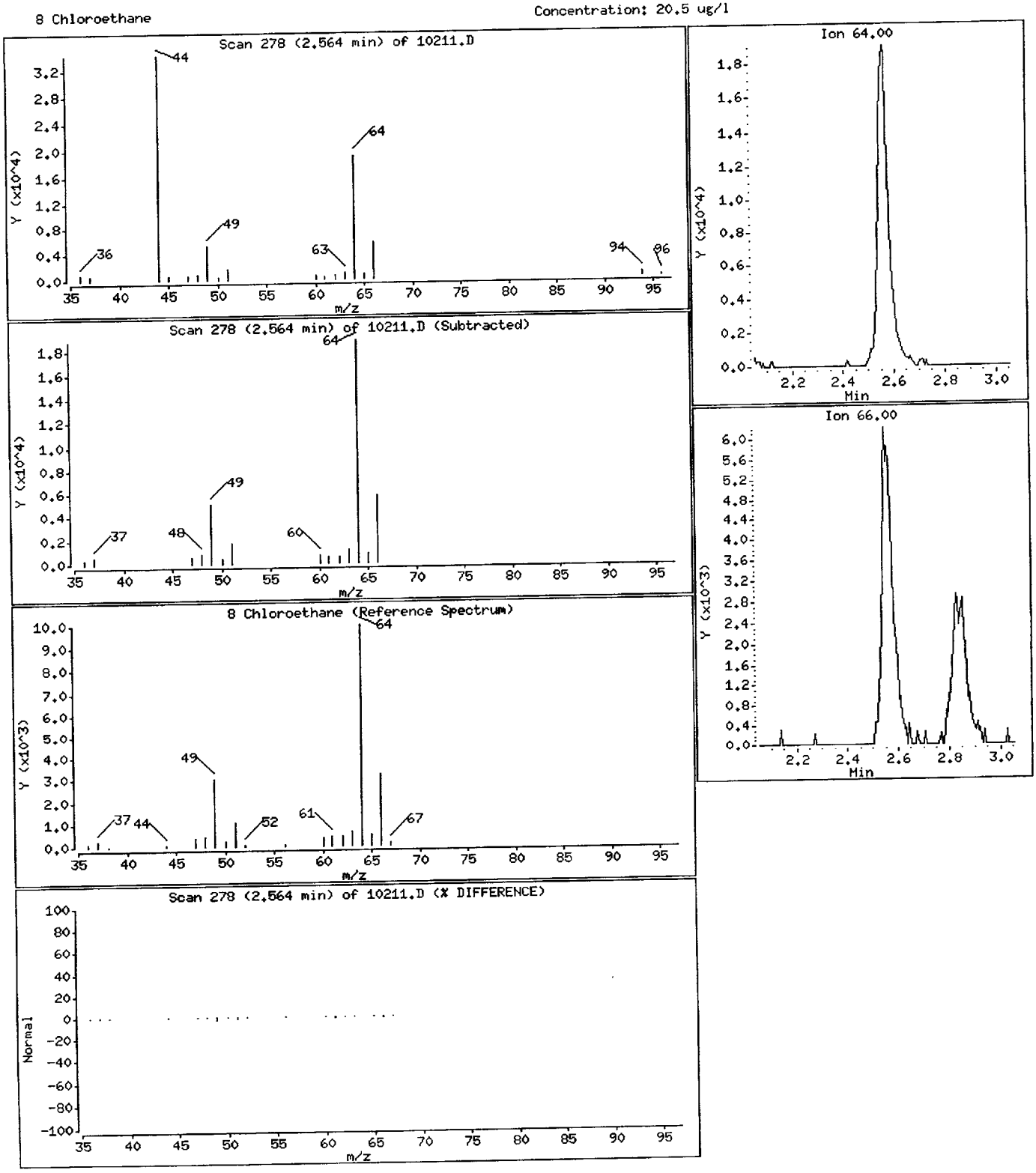
Operator:

Column phase: DB-624

Column diameter: 0.18

8 Chloroethane

Concentration: 20.5 ug/l



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Date : 25-SEP-2002 08:01

Client ID: 11Q30228MSD

Instrument: vms03.i

Sample Info: 220910211;2209102;1;

Purge Volume: 5.0

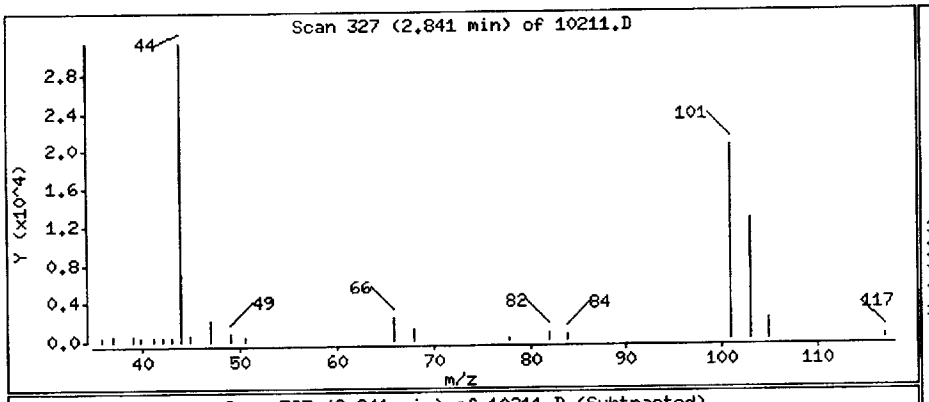
Operator:

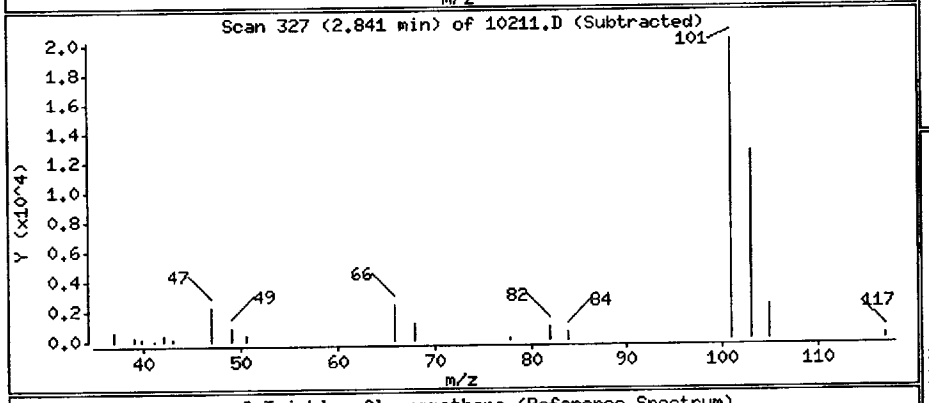
Column phase: DB-624

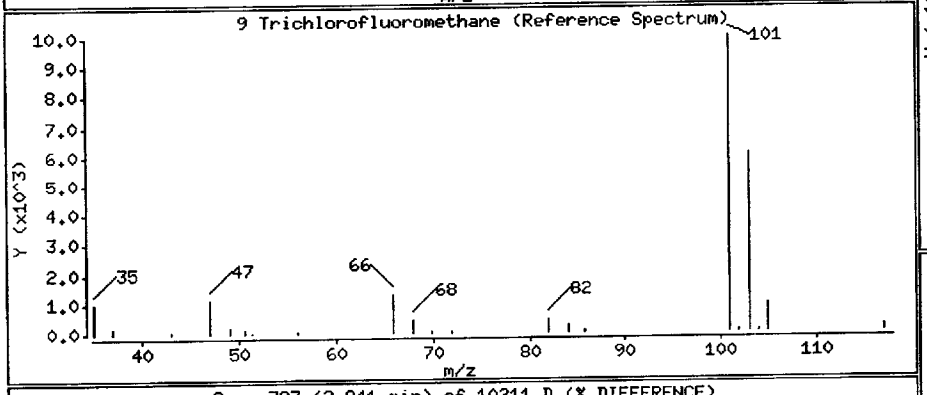
Column diameter: 0.18

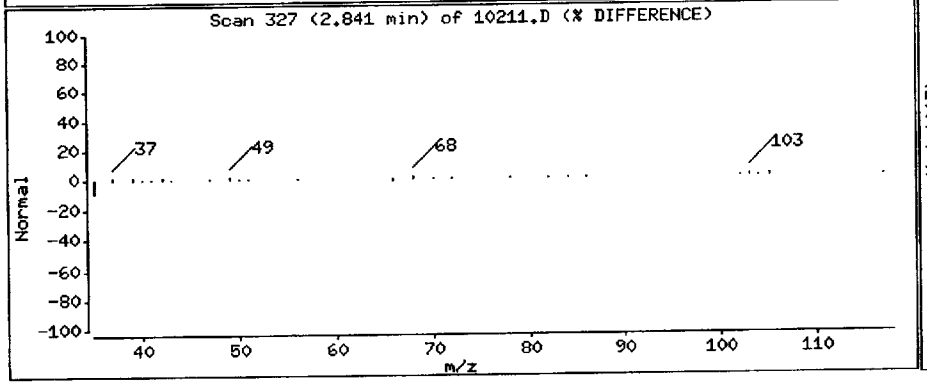
9 Trichlorofluoromethane

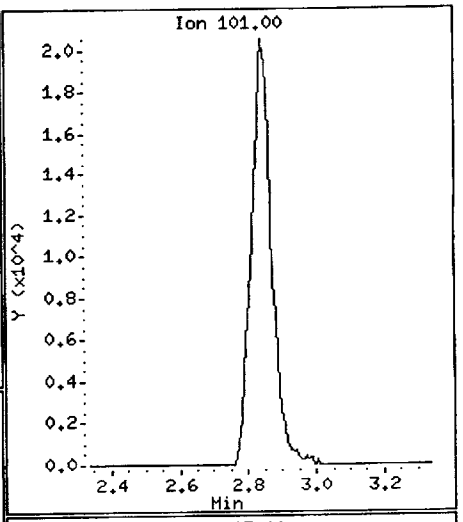
Concentration: 21.5 ug/l

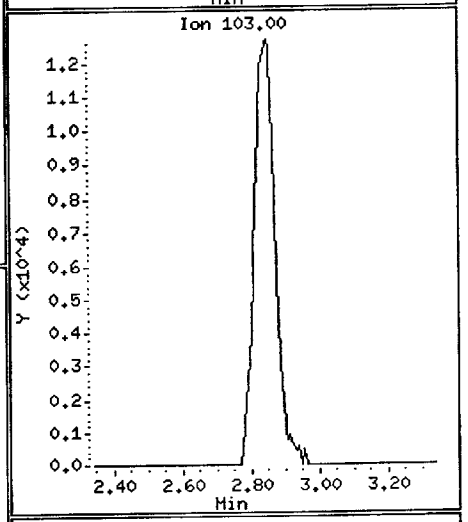


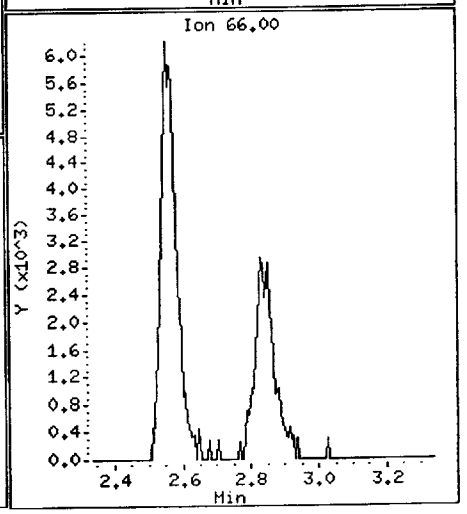












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10211.D

Date : 25-SEP-2002 08:01

Client ID: 11Q30228MSD

Instrument: vms03.i

Sample Info: 220910211;2209102;1;

Purge Volume: 5.0

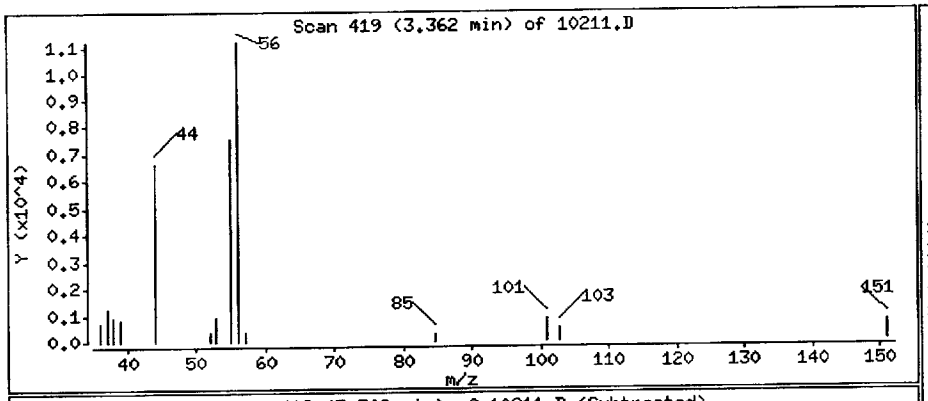
Operator:

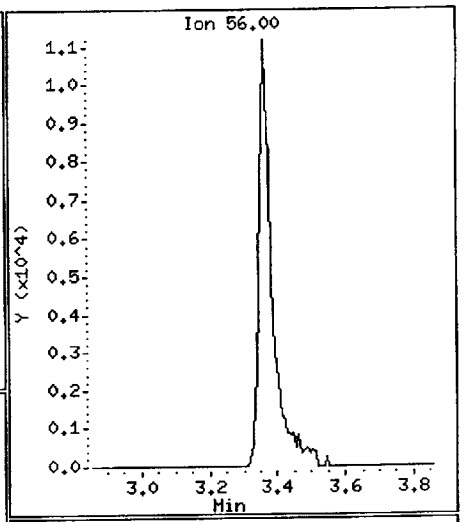
Column phase: DB-624

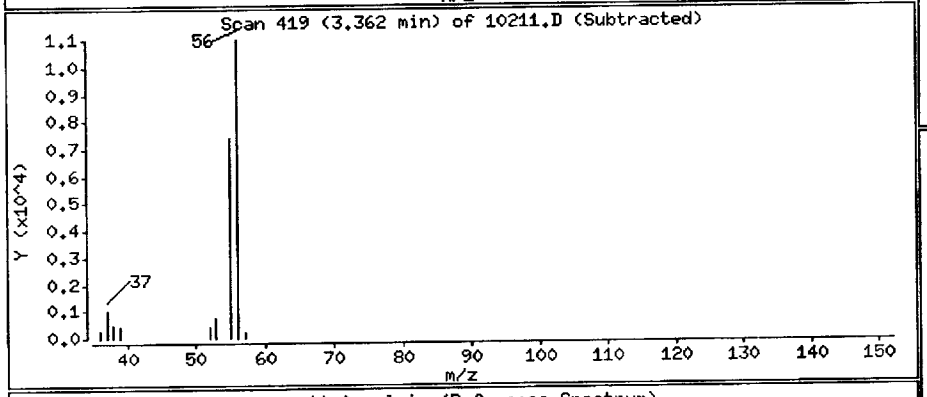
Column diameter: 0.18

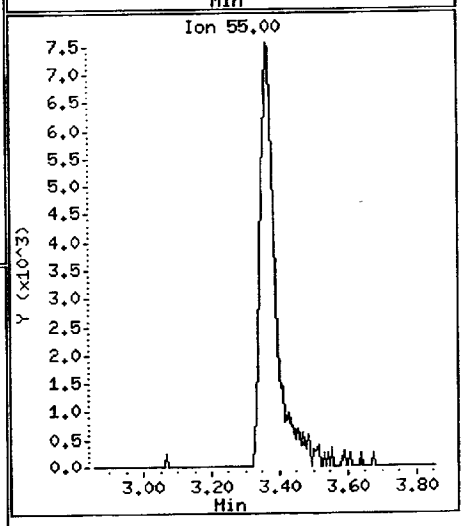
10 Acrolein

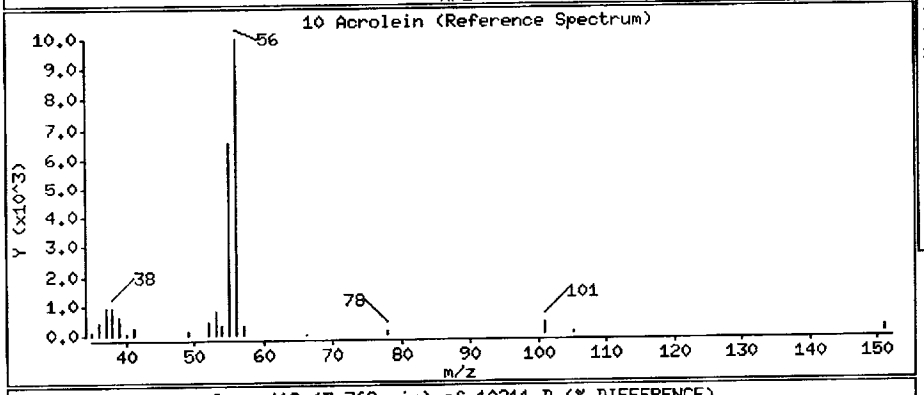
Concentration: 55.0 ug/l

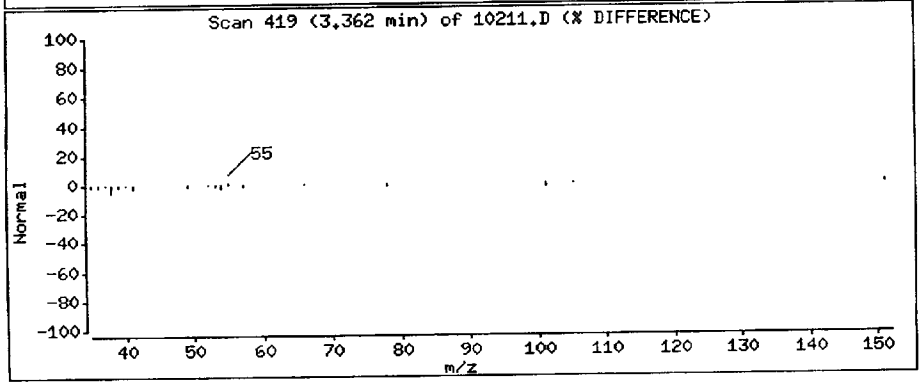












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10211.D

Date : 25-SEP-2002 08:01

Client ID: 11Q30228MSD

Instrument: vms03.i

Sample Info: 220910211;2209102;1;

Purge Volume: 5.0

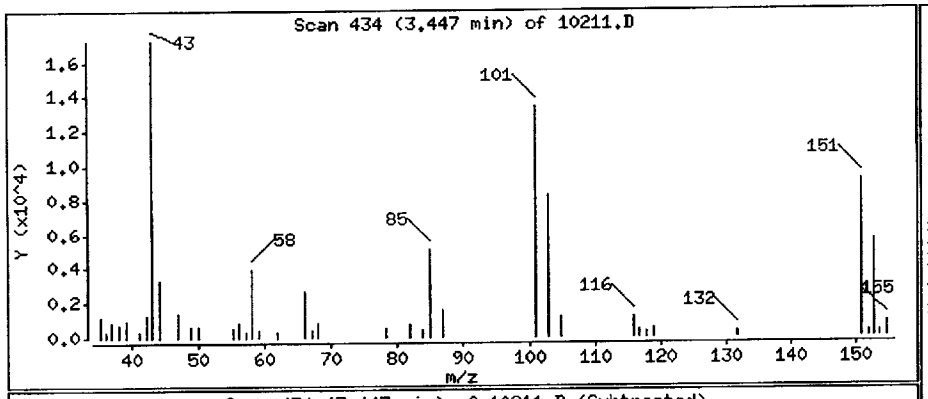
Operator:

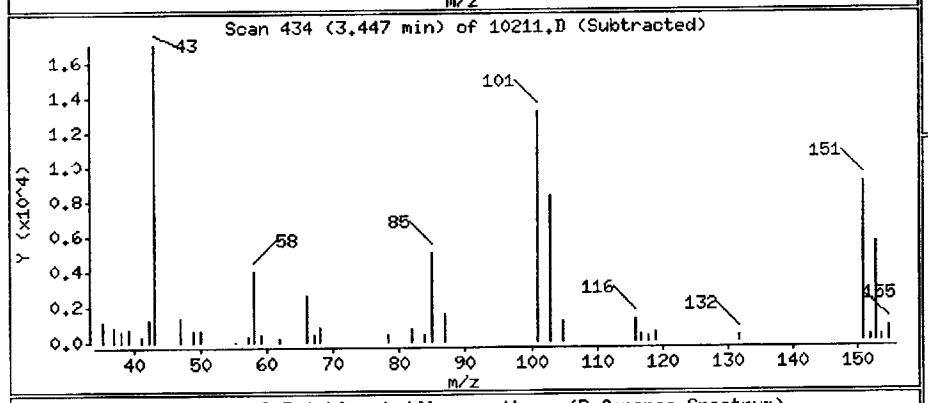
Column phase: DB-624

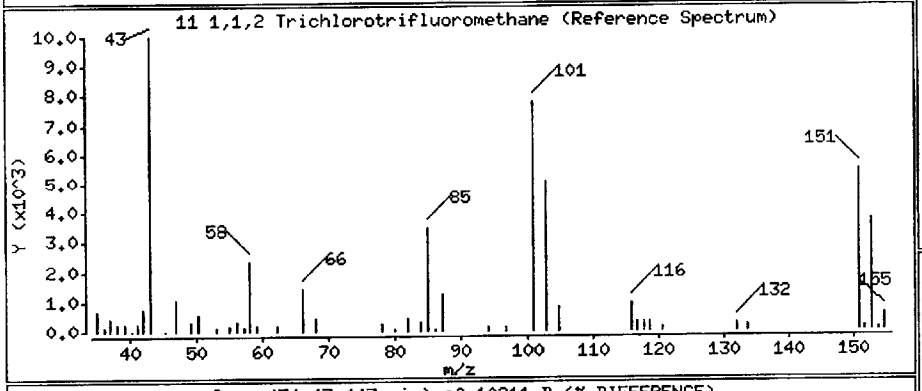
Column diameter: 0.18

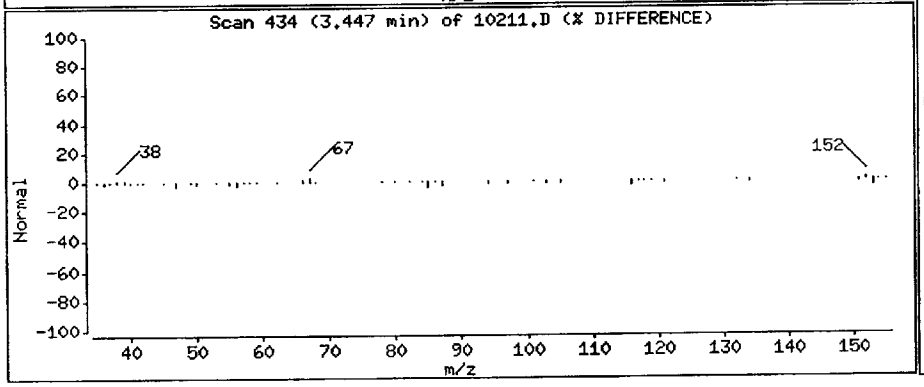
11 1,1,2 Trichlorotrifluoromethane

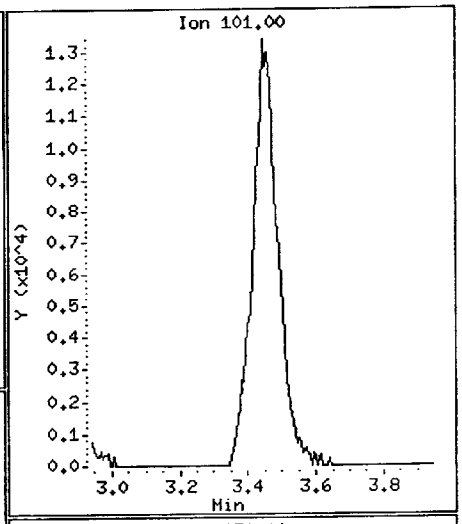
Concentration: 22.8 ug/l

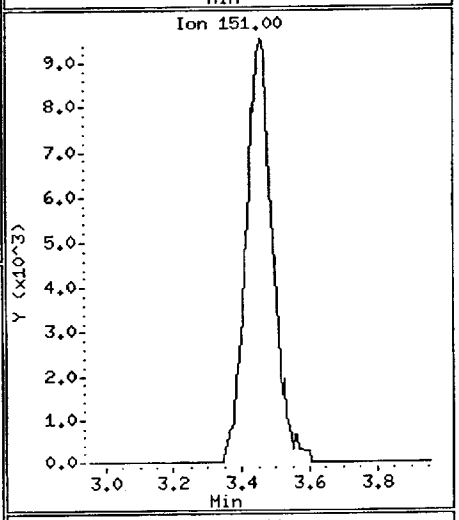


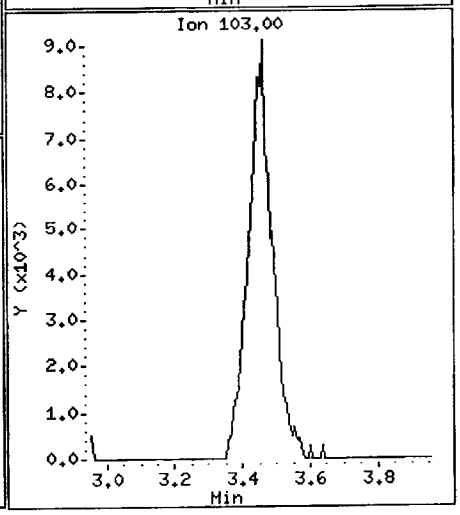












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10211.D

Date : 25-SEP-2002 08:01

Client ID: 11Q30228MSD

Instrument: vms03.i

Sample Info: 220910211;2209102;1;

Purge Volume: 5.0

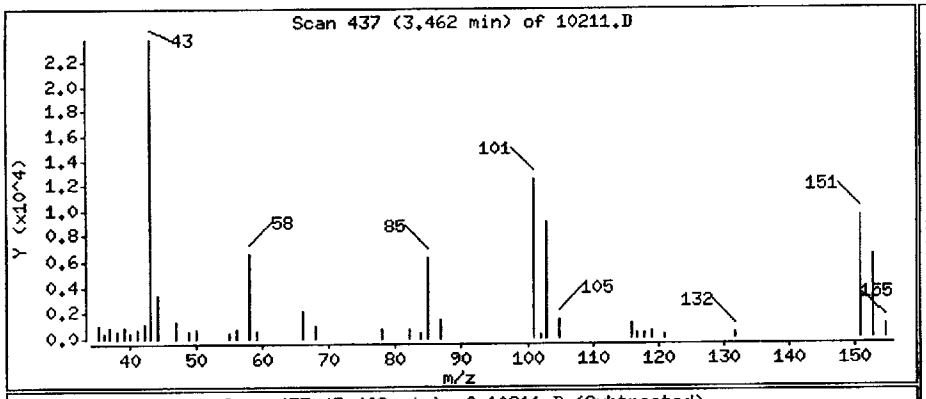
Operator:

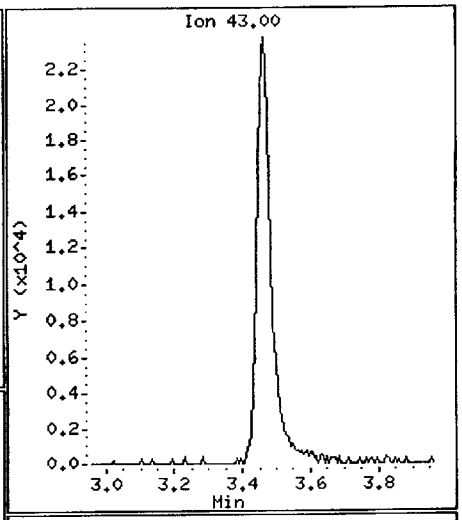
Column phase: DB-624

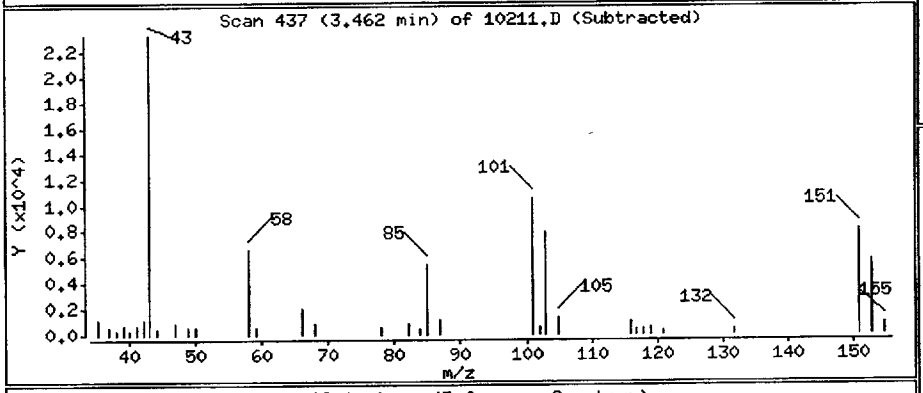
Column diameter: 0.18

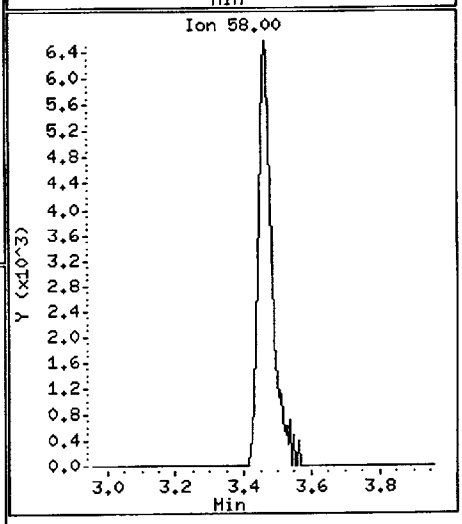
12 Acetone

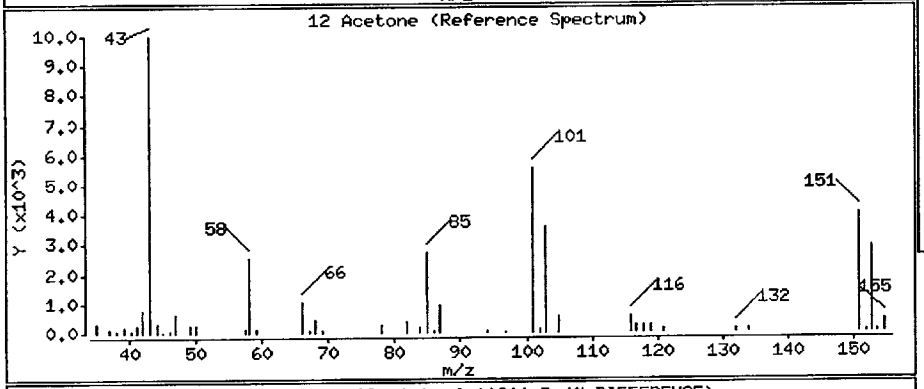
Concentration: 59.0 ug/l

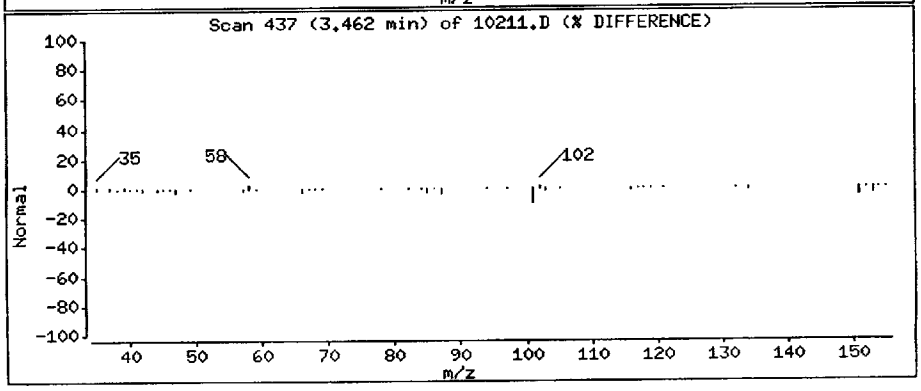












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10211.D

Date : 25-SEP-2002 08:01

Client ID: 11Q30228MSD

Instrument: vms03.i

Sample Info: 220910211;2209102;1;

Purge Volume: 5.0

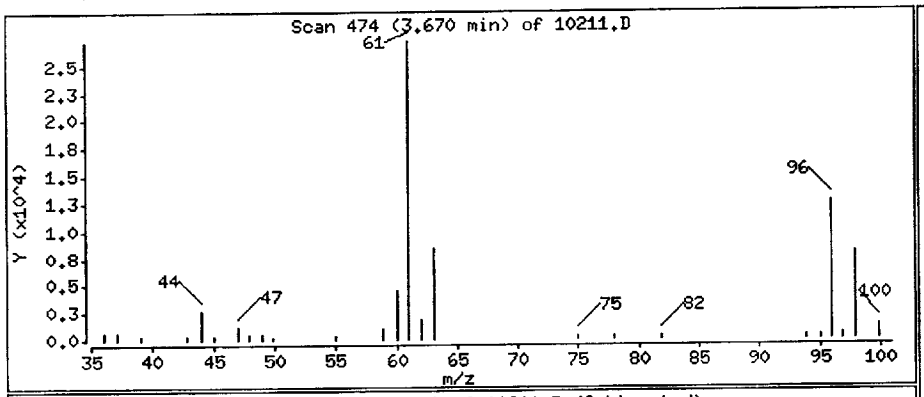
Operator:

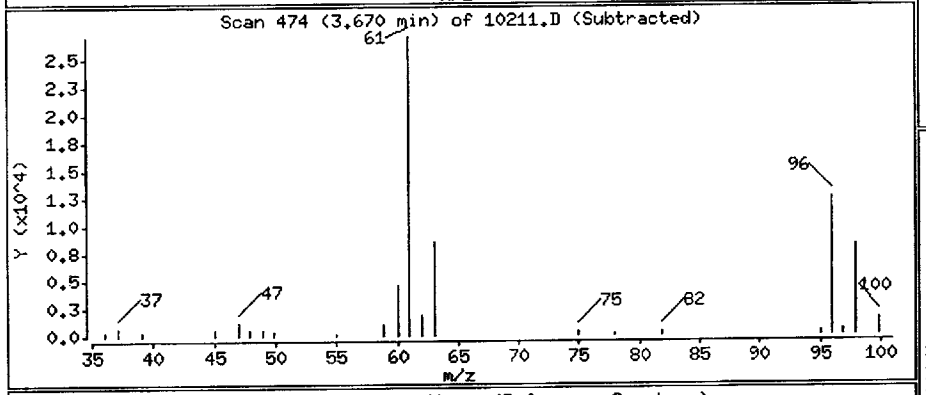
Column phase: DB-624

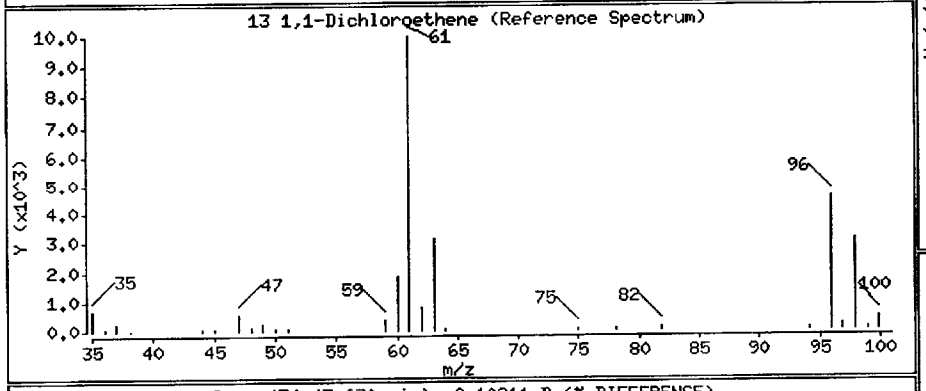
Column diameter: 0.18

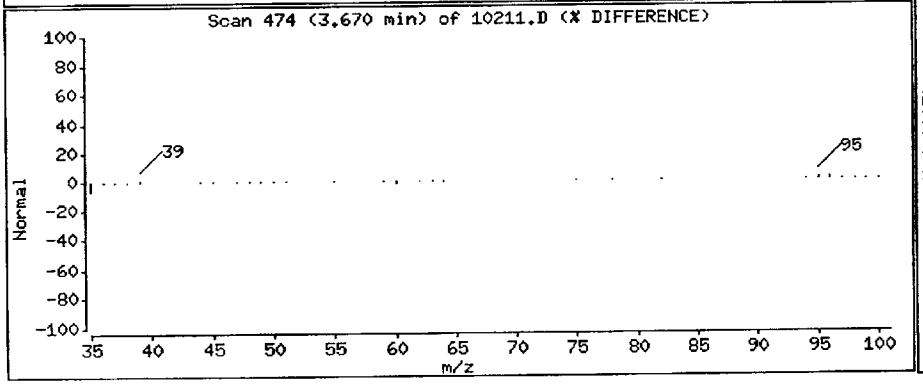
13 1,1-Dichloroethene

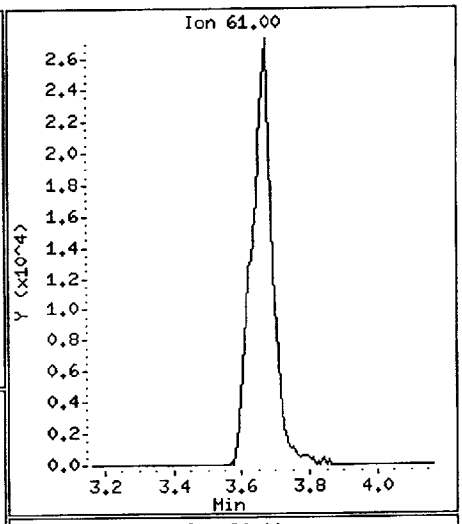
Concentration: 19.5 ug/l

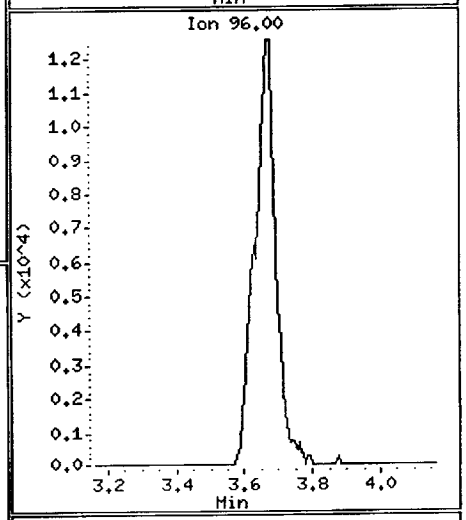


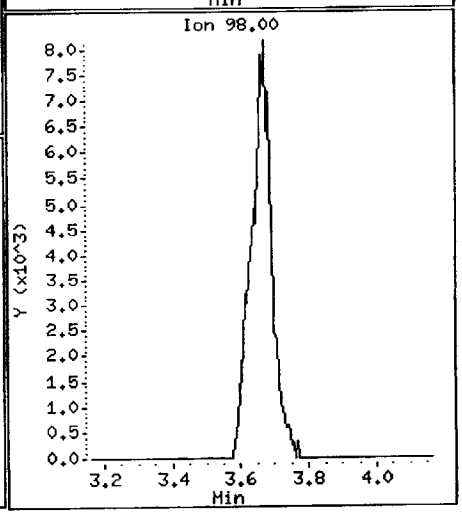












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10211.D

Date : 25-SEP-2002 08:01

Client ID: 11Q30228MSD

Instrument: vms03.i

Sample Info: 220910211;2209102;1;

Purge Volume: 5.0

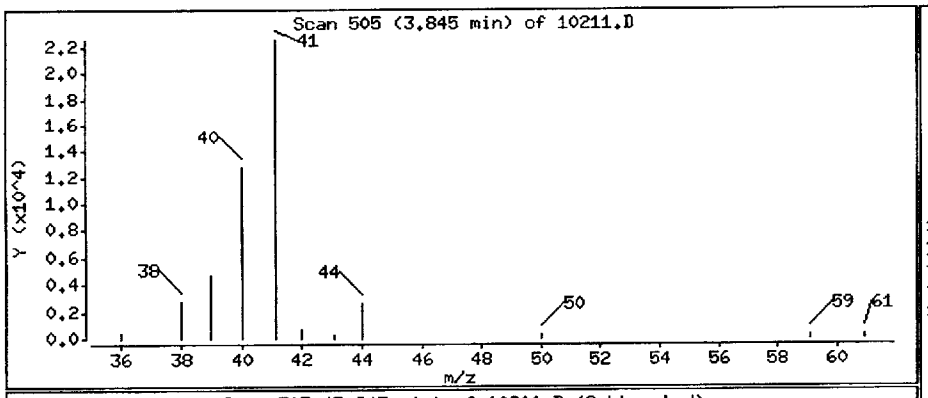
Operator:

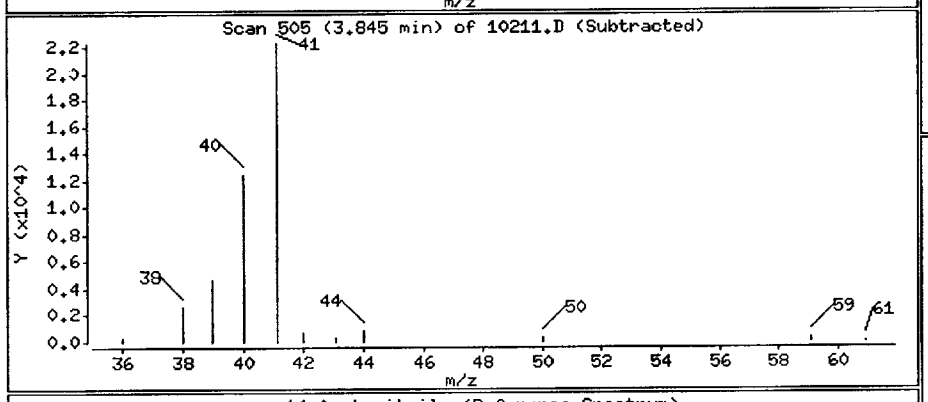
Column phase: DB-624

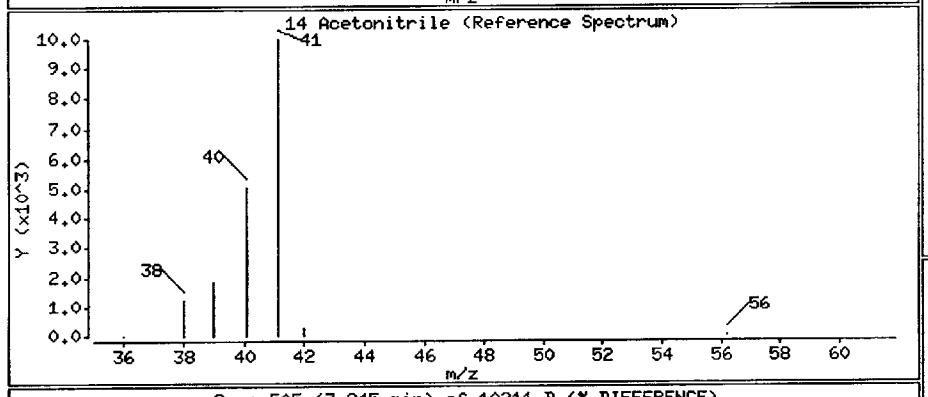
Column diameter: 0.18

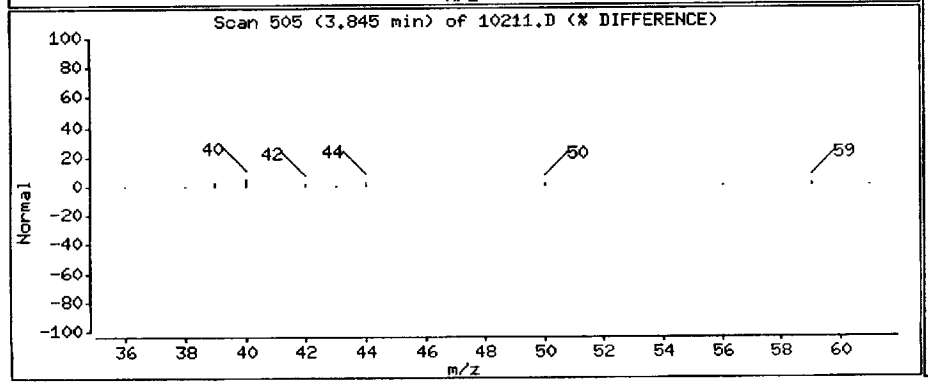
14 Acetonitrile

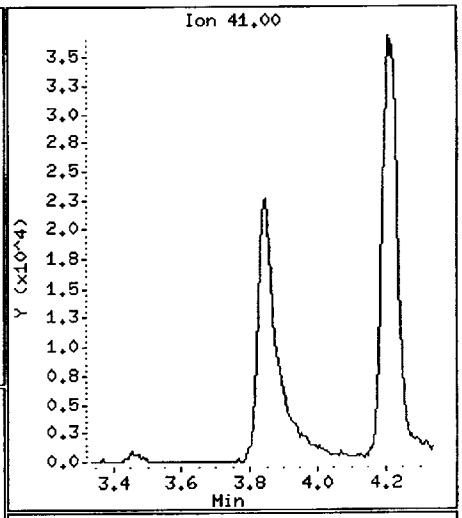
Concentration: 185 ug/l

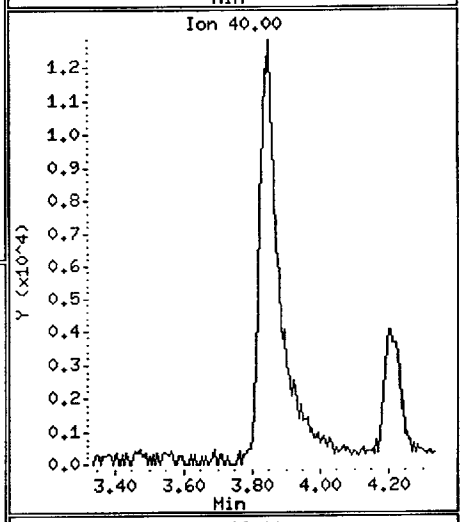


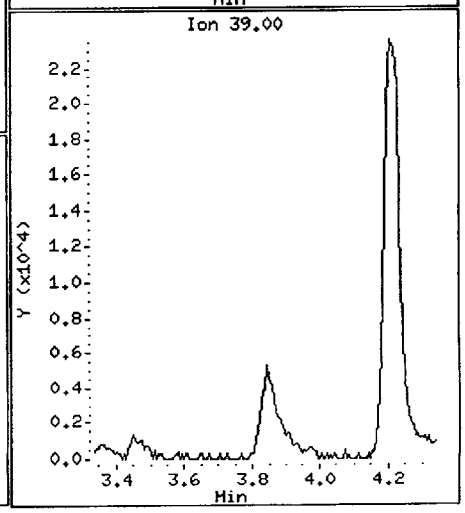












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10211.D

Date : 25-SEP-2002 08:01

Client ID: 11Q30228MSD

Instrument: vms03.i

Sample Info: 220910211;2209102;1;

Purge Volume: 5.0

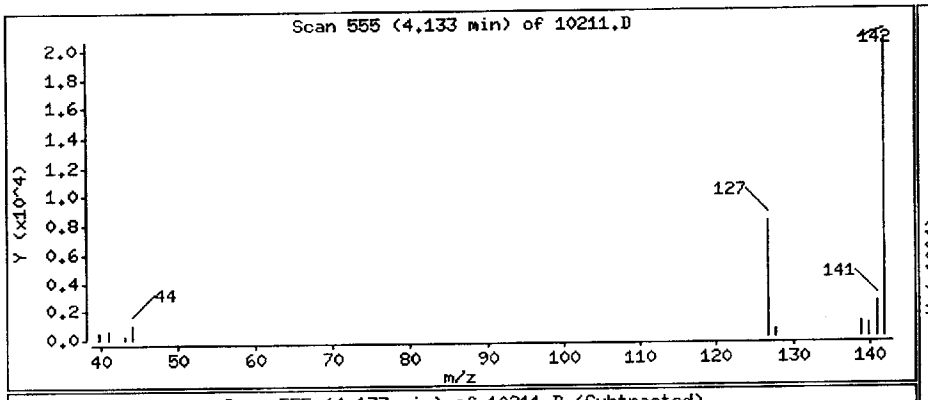
Operator:

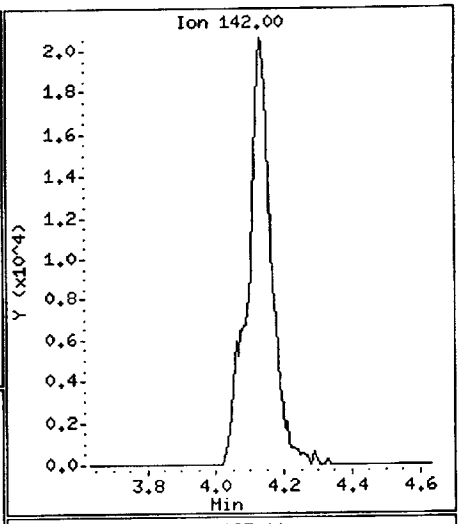
Column phase: DB-624

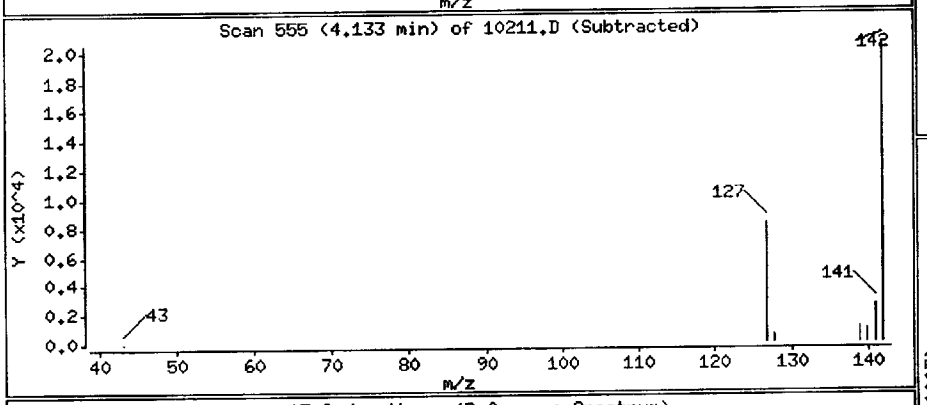
Column diameter: 0.18

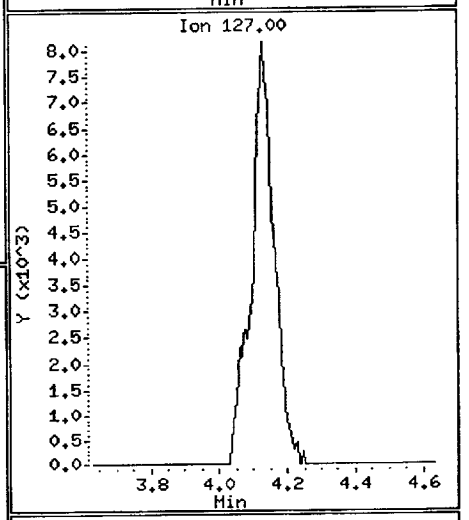
15 Iodomethane

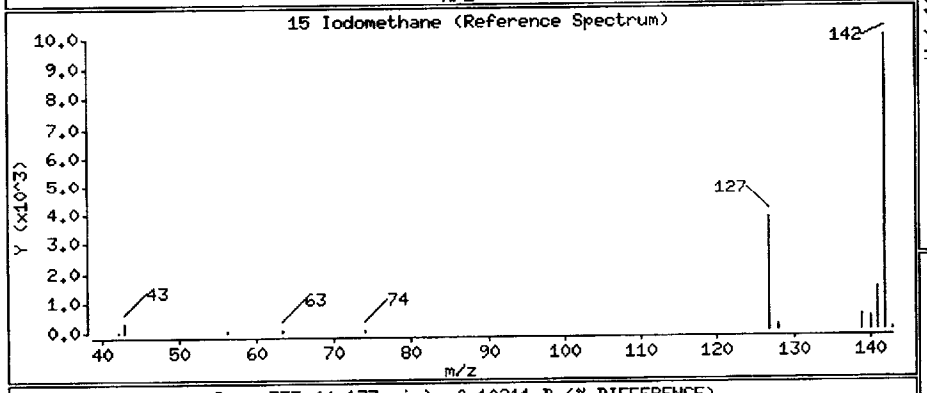
Concentration: 18.8 ug/l

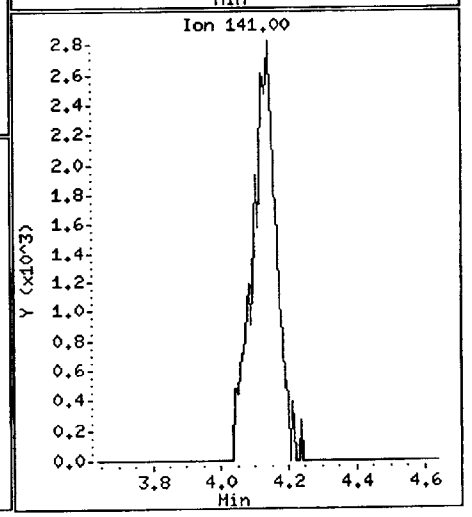


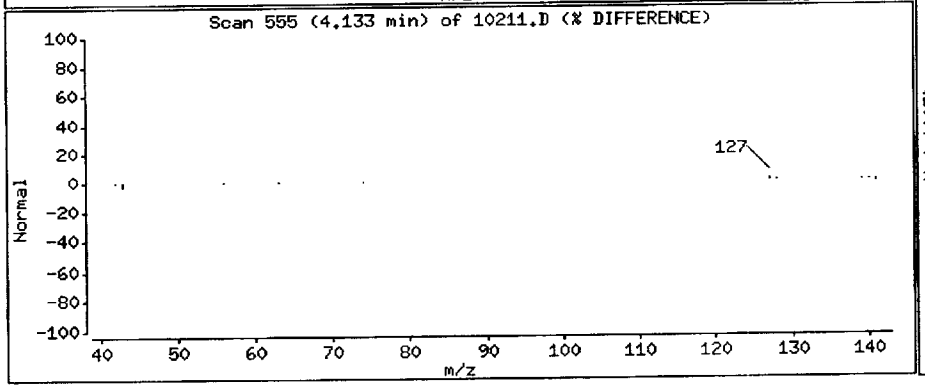












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10211.D

Date : 25-SEP-2002 08:01

Client ID: 11Q30228MSD

Instrument: vms03.i

Sample Info: 220910211;2209102;1;

Purge Volume: 5.0

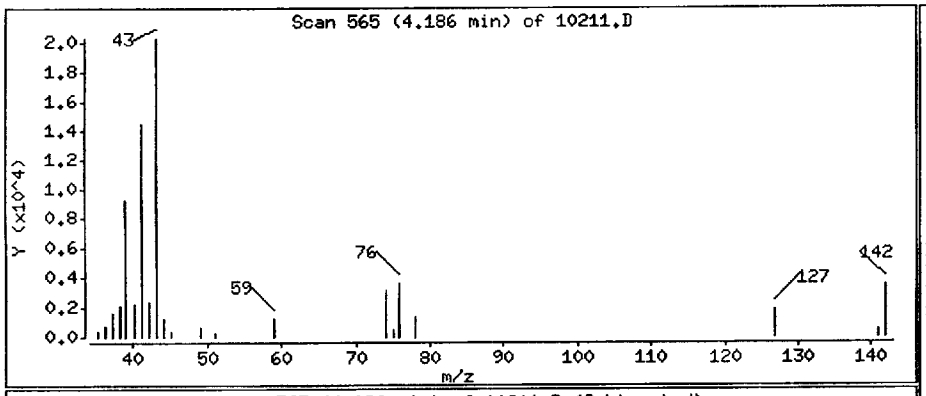
Operator:

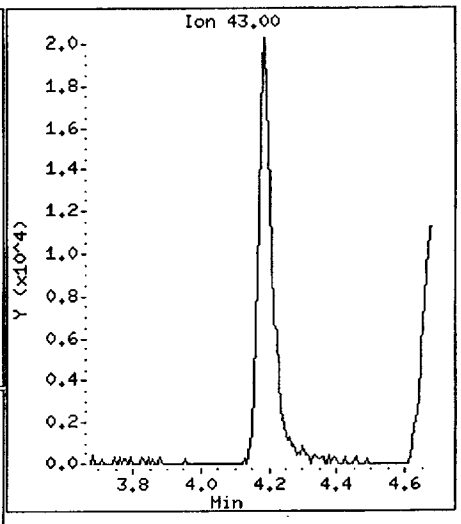
Column phase: DB-624

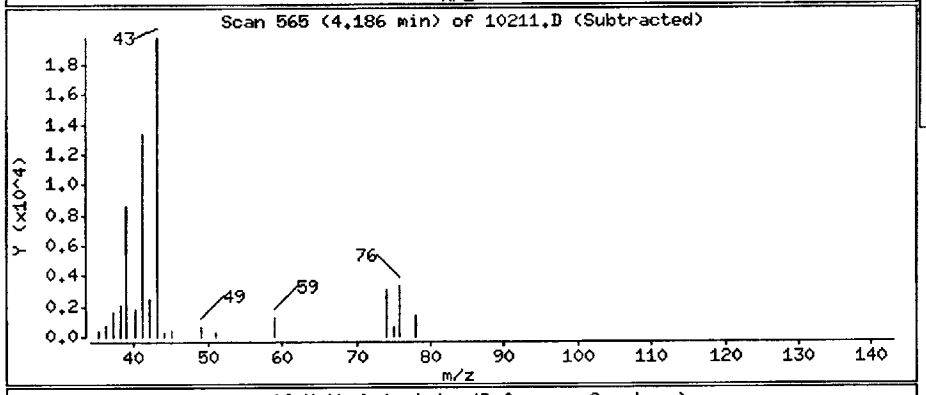
Column diameter: 0.18

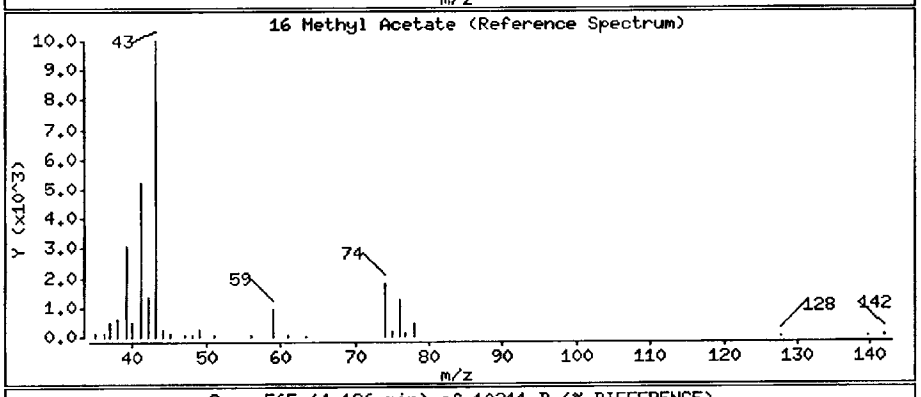
16 Methyl Acetate

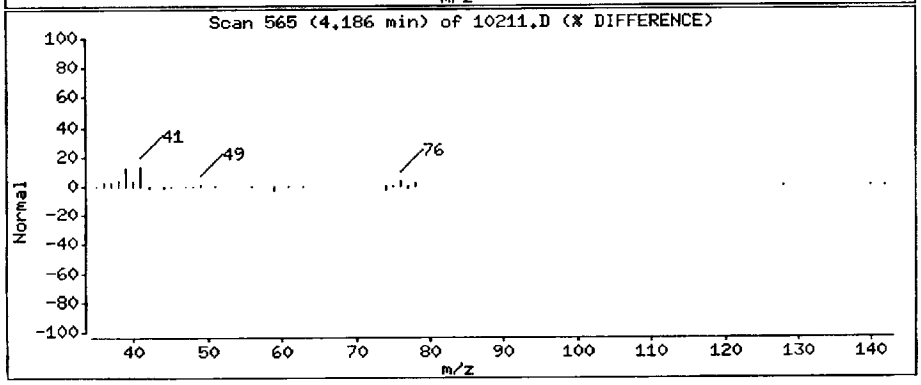
Concentration: 19.2 ug/l











Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10211.D

Date : 25-SEP-2002 08:01

Client ID: 11Q30228MSD

Instrument: vms03.i

Sample Info: 220910211;2209102;1;

Purge Volume: 5.0

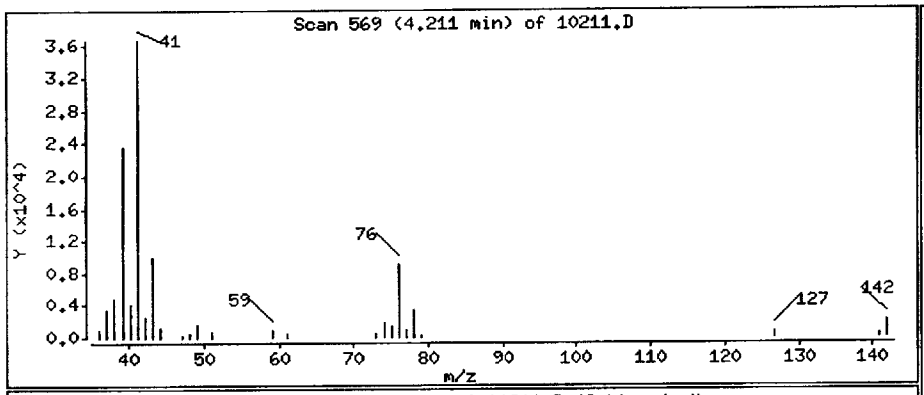
Operator:

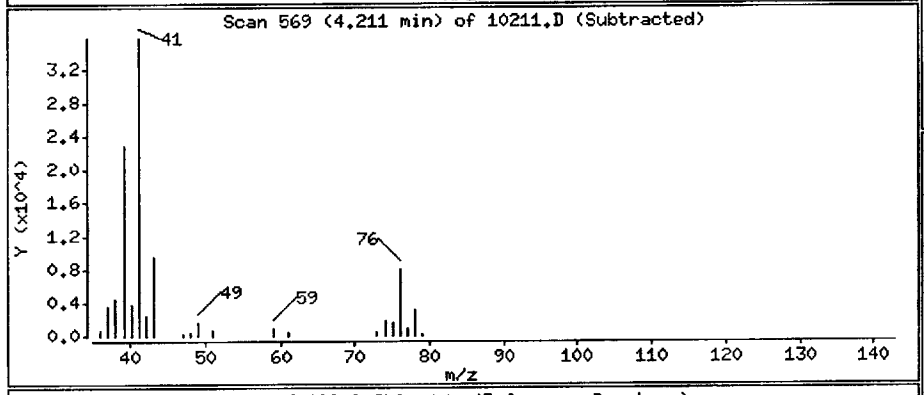
Column phase: DB-624

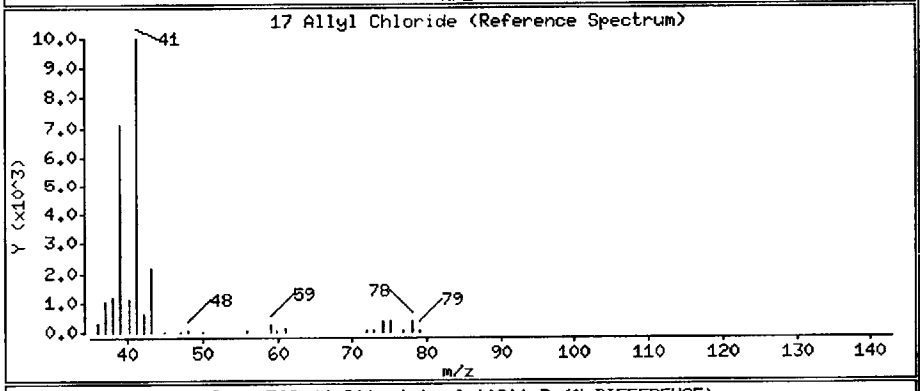
Column diameter: 0.18

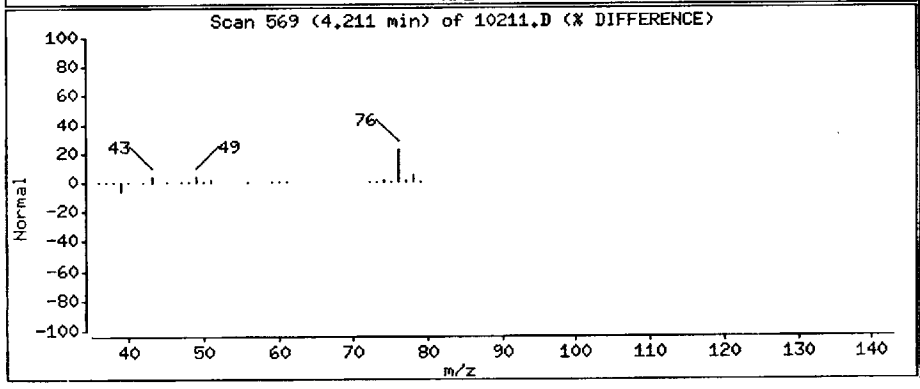
17 Allyl Chloride

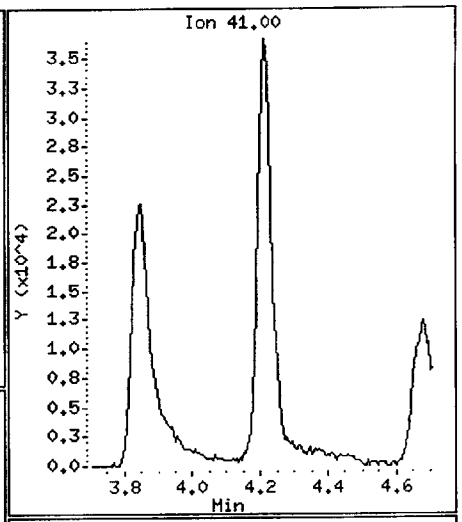
Concentration: 19.9 ug/l

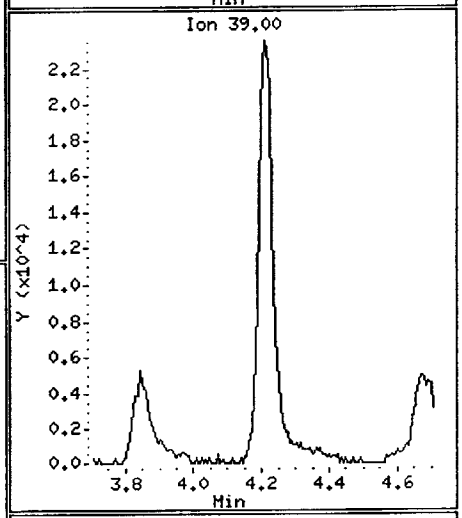


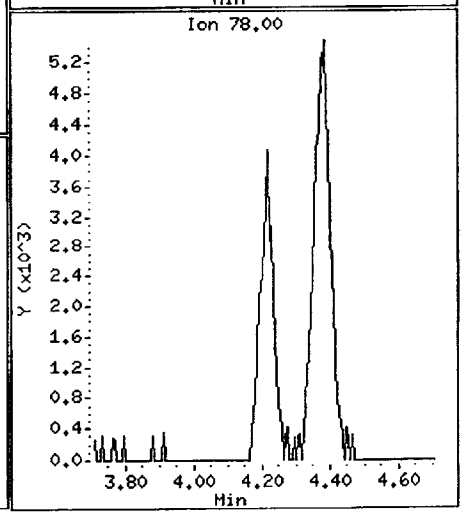












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10211.D

Date : 25-SEP-2002 08:01

Client ID: 11Q30228MSD

Instrument: vms03.i

Sample Info: 220910211;2209102;1;

Purge Volume: 5.0

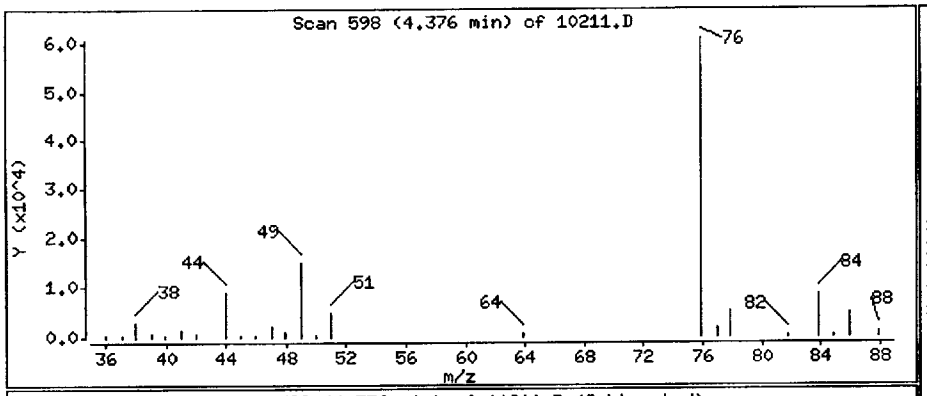
Operator:

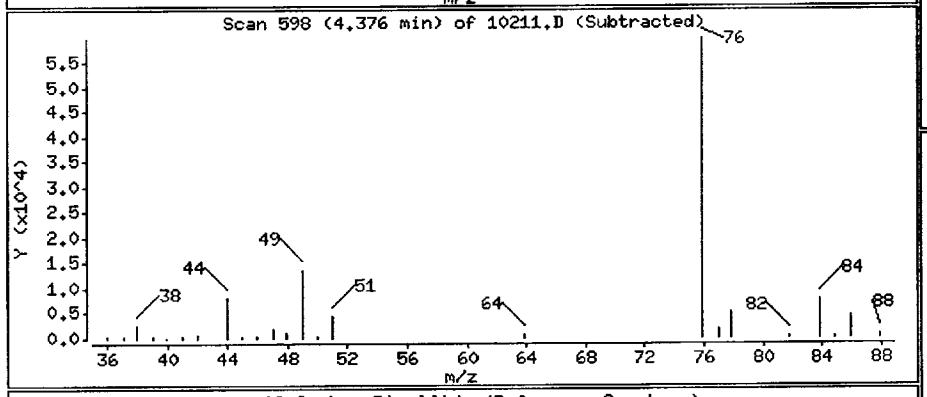
Column phase: DB-624

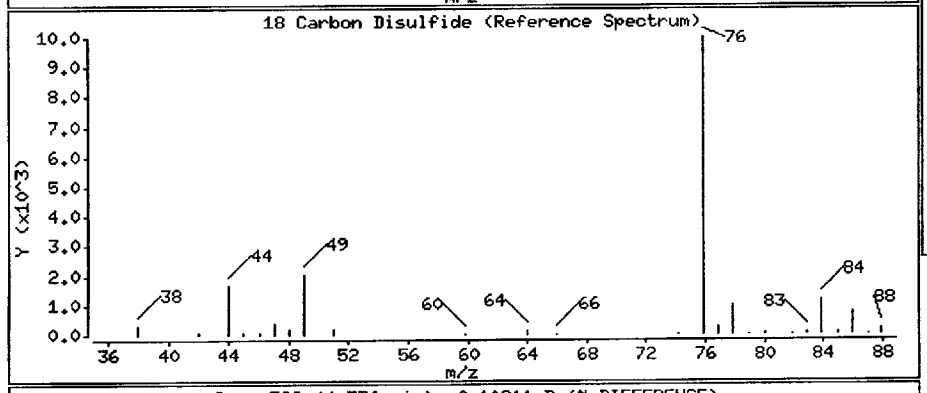
Column diameter: 0.18

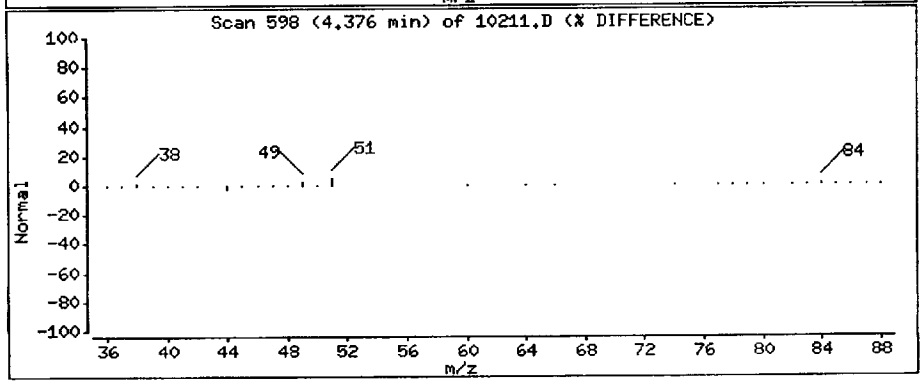
18 Carbon Disulfide

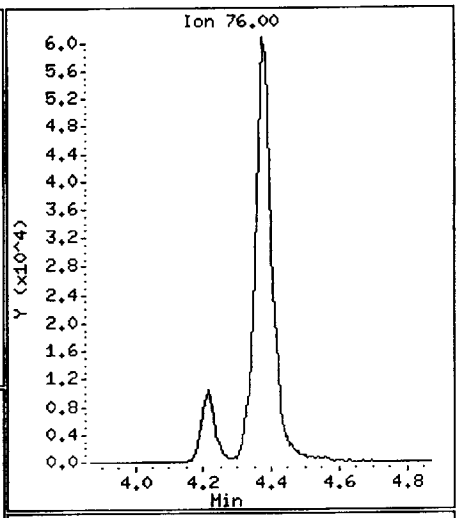
Concentration: 18.2 ug/l

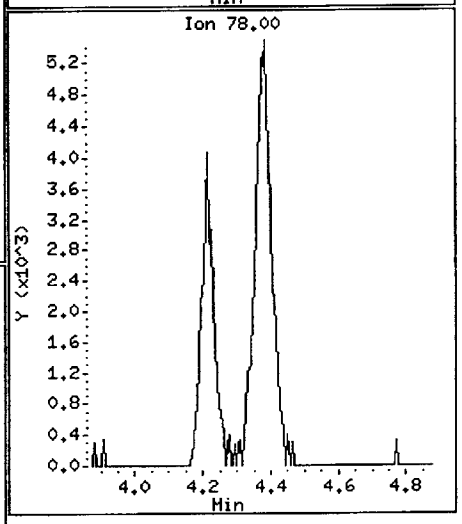












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10211.D

Date : 25-SEP-2002 08:01

Client ID: 11Q30228MSD

Instrument: vms03.i

Sample Info: 220910211;2209102;1;

Purge Volume: 5.0

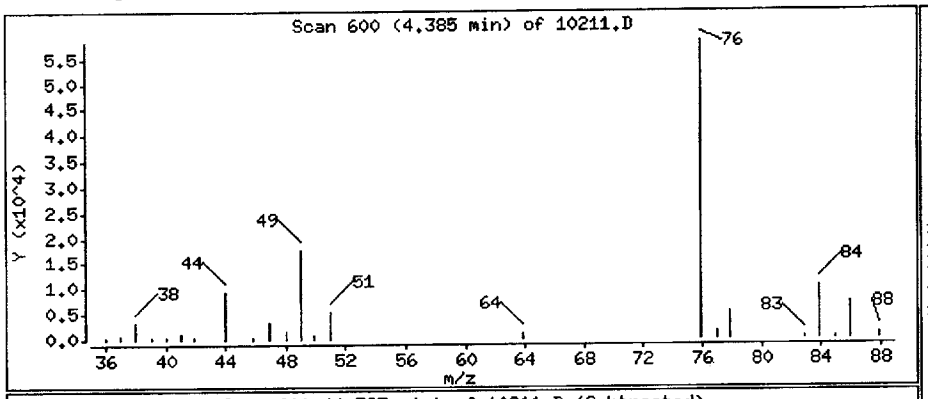
Operator:

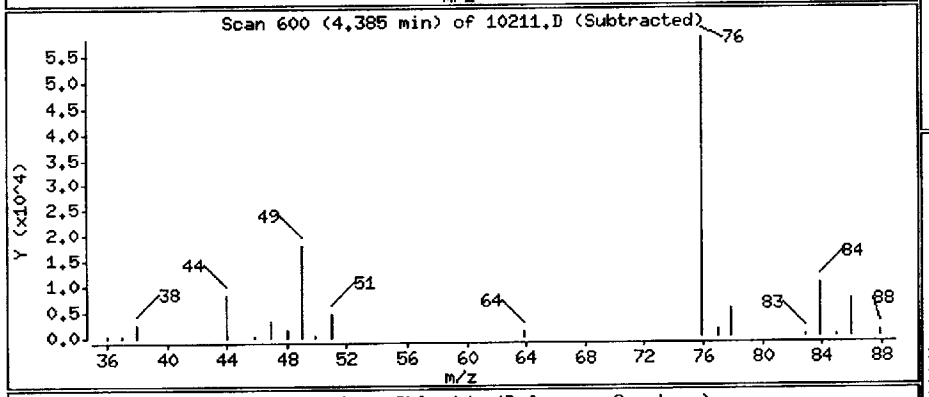
Column phase: DB-624

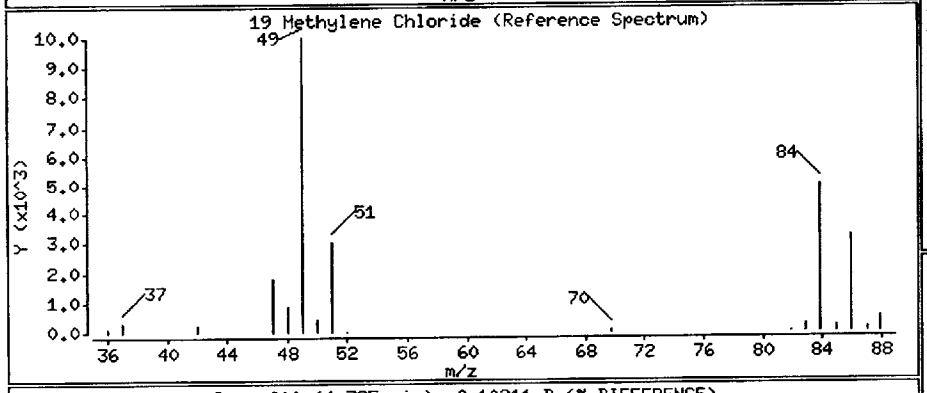
Column diameter: 0.18

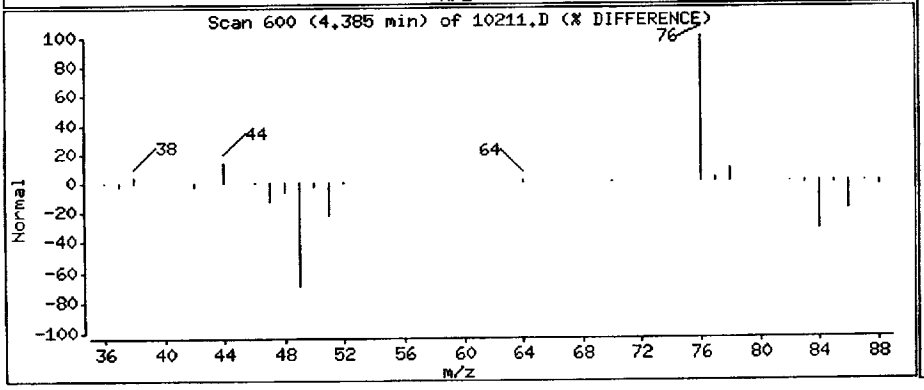
19 Methylene Chloride

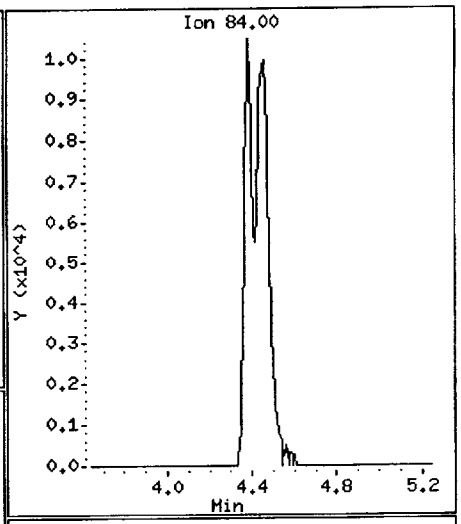
Concentration: 18.8 ug/l

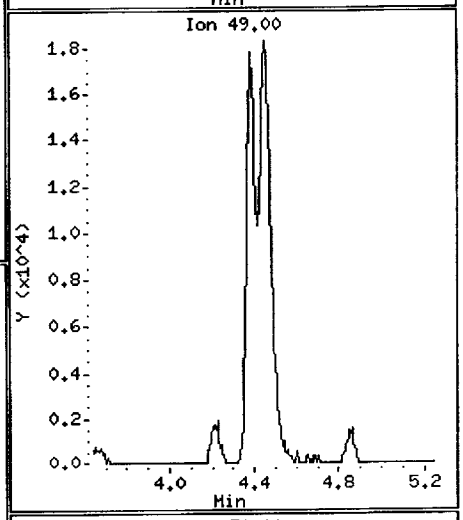


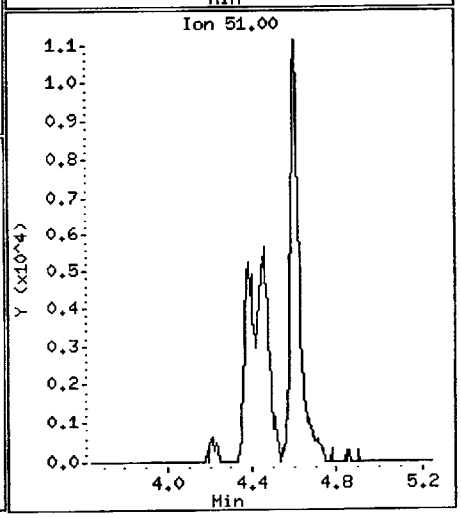












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10211.D

Date : 25-SEP-2002 08:01

Client ID: 11Q30228MSD

Instrument: vms03.i

Sample Info: 220910211;2209102;1;

Purge Volume: 5.0

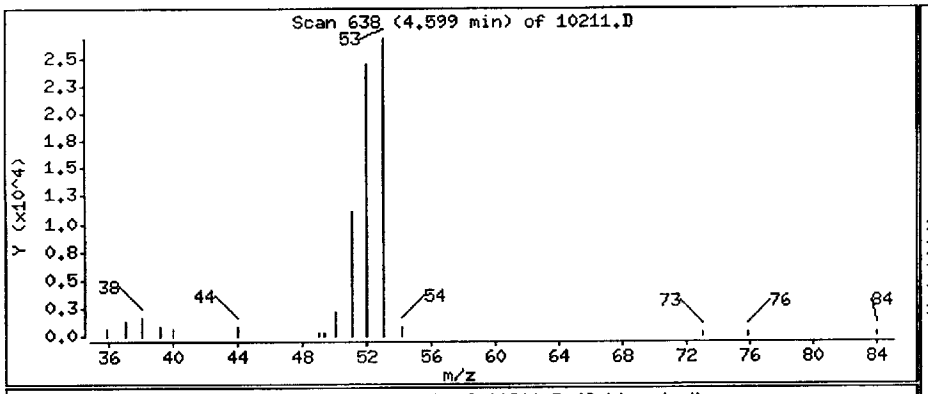
Operator:

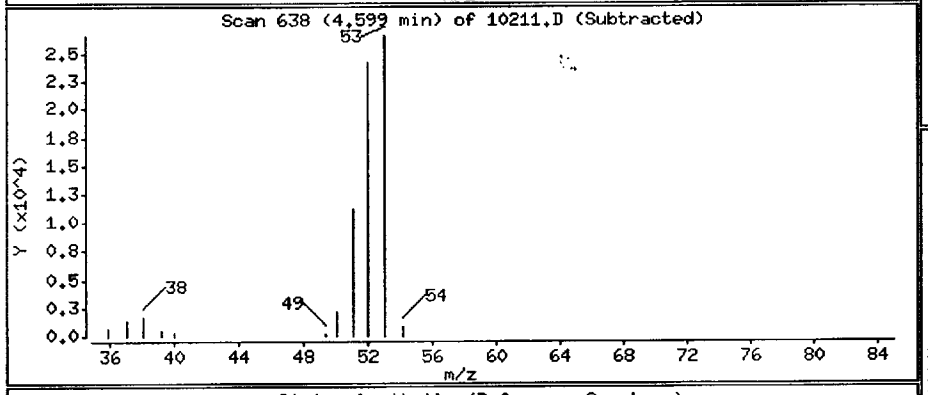
Column phase: DB-624

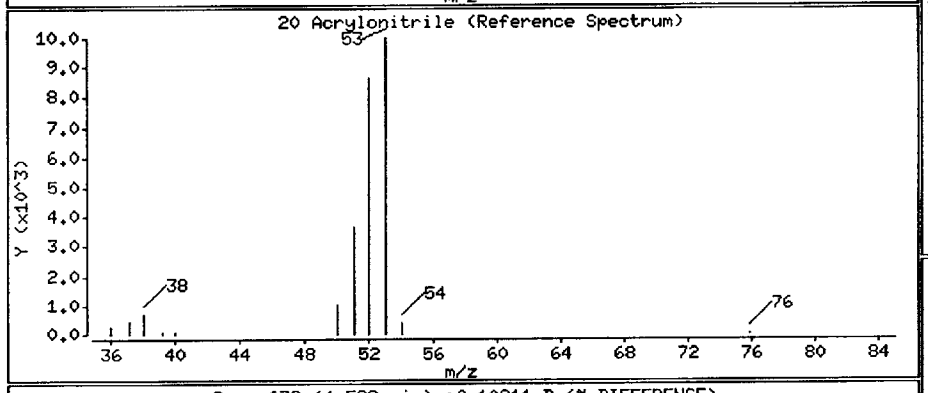
Column diameter: 0.18

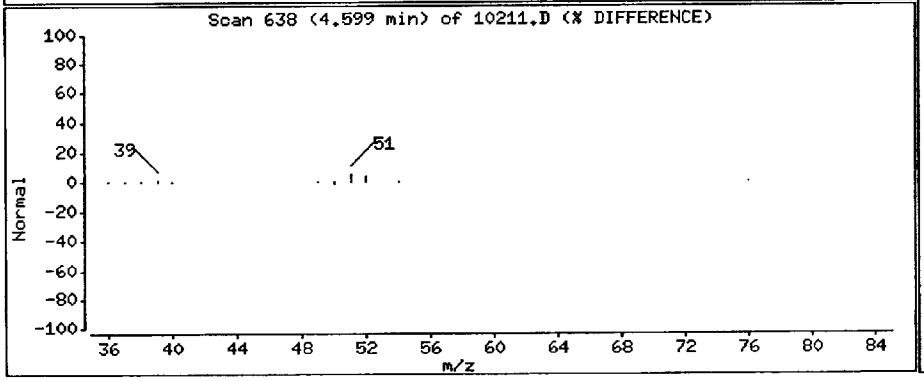
20 Acrylonitrile

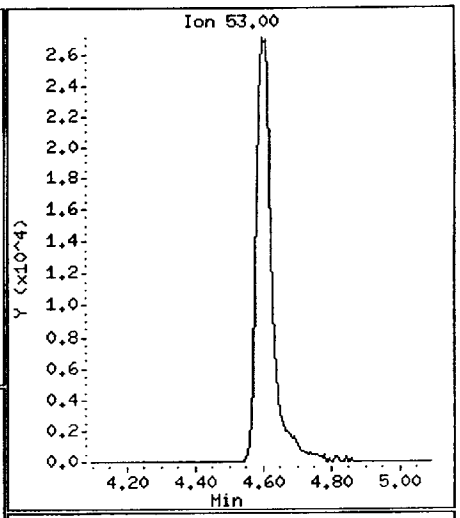
Concentration: 62.0 ug/l

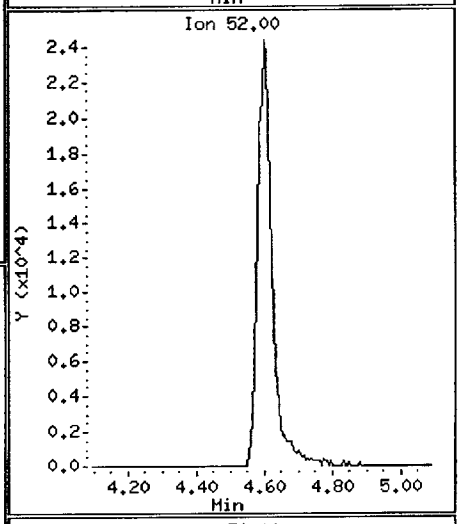


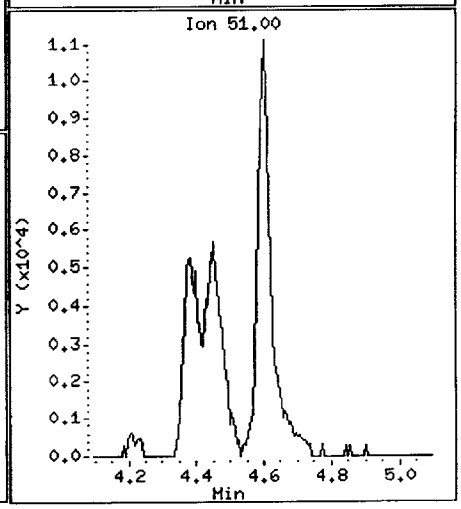












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10211.D

Date : 25-SEP-2002 08:01

Client ID: 11Q30228MSD

Instrument: vms03.i

Sample Info: 220910211;2209102;1;

Purge Volume: 5.0

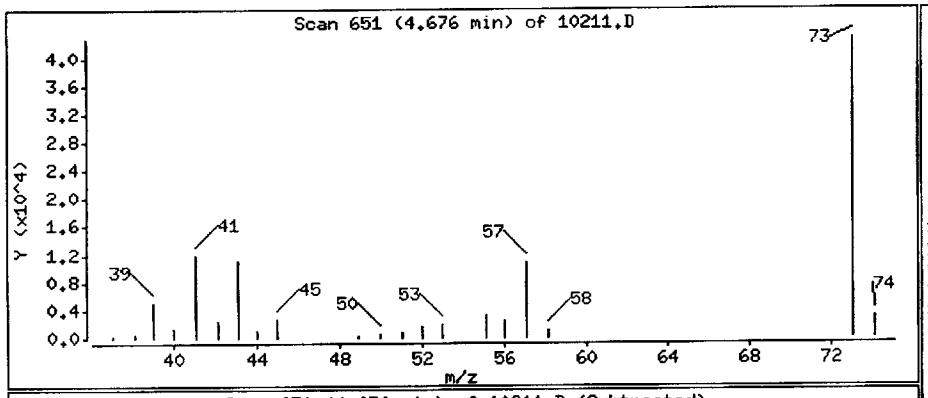
Operator:

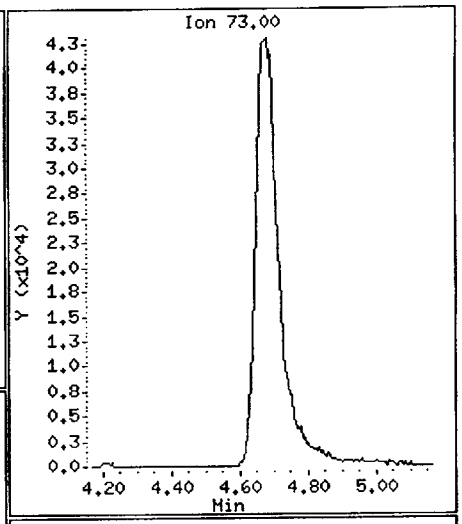
Column phase: DB-624

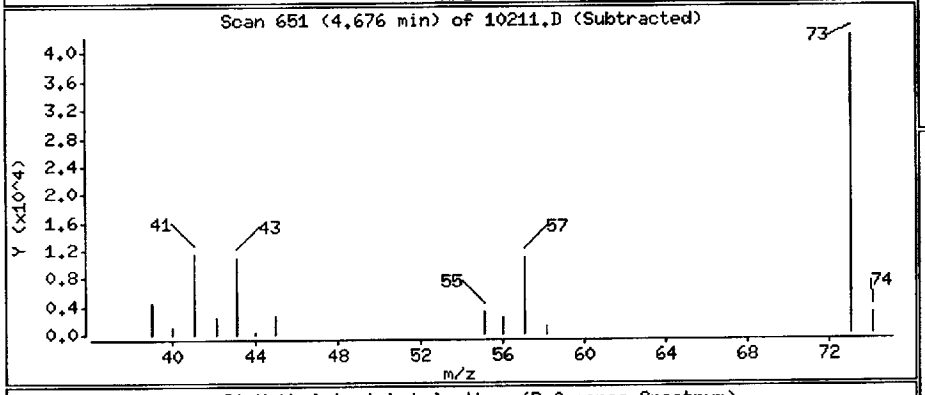
Column diameter: 0.18

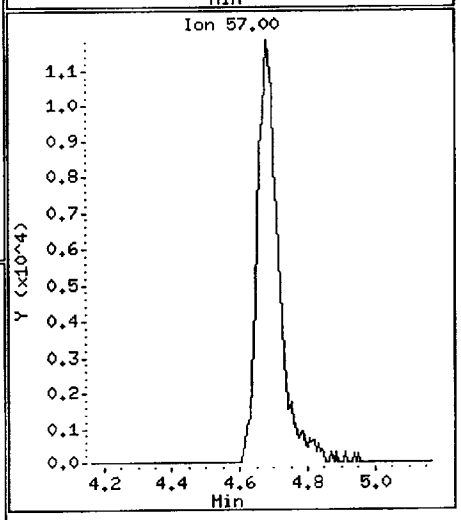
21 Methyl-tert-butyl ether

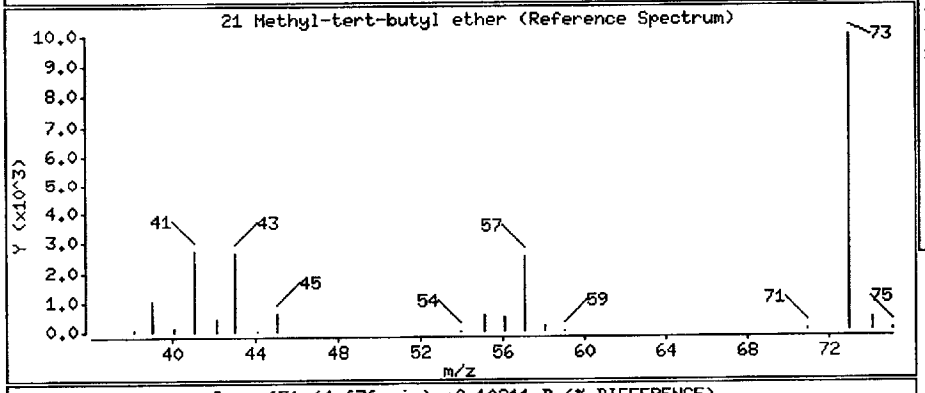
Concentration: 18.9 ug/l

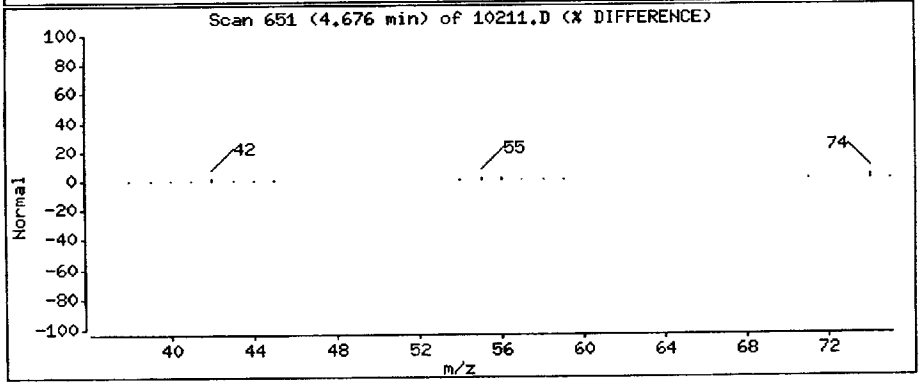












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10211.D

Date : 25-SEP-2002 08:01

Client ID: 11Q30228MSD

Instrument: vms03.i

Sample Info: 220910211;2209102;1;

Purge Volume: 5.0

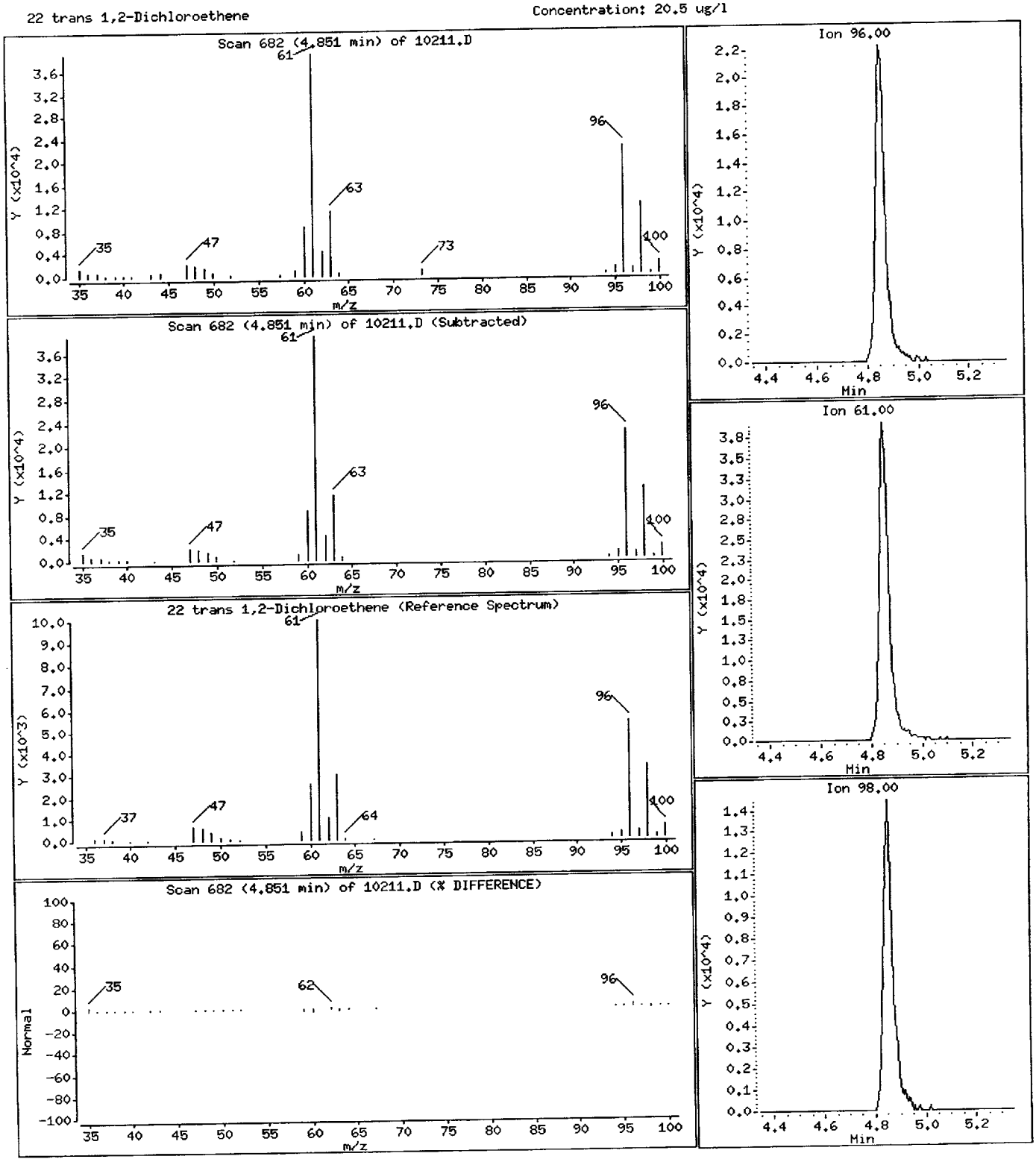
Operator:

Column phase: DB-624

Column diameter: 0.18

22 trans 1,2-Dichloroethene

Concentration: 20.5 ug/l



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Date : 25-SEP-2002 08:01

Client ID: 11Q30228MSD

Instrument: vms03.i

Sample Info: 220910211;2209102;1;

Purge Volume: 5.0

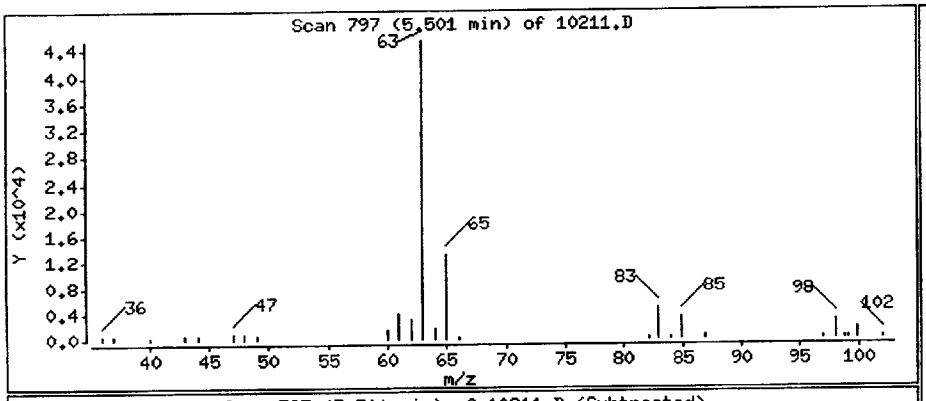
Operator:

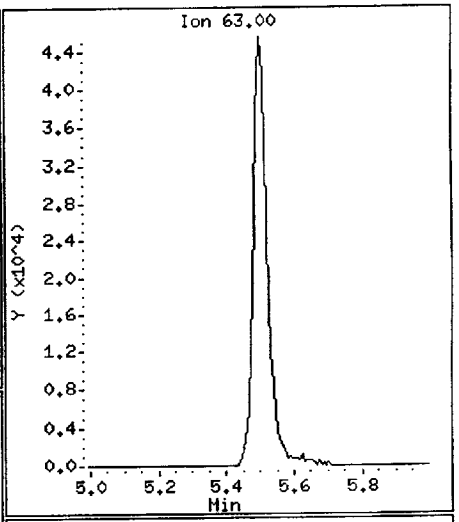
Column phase: DB-624

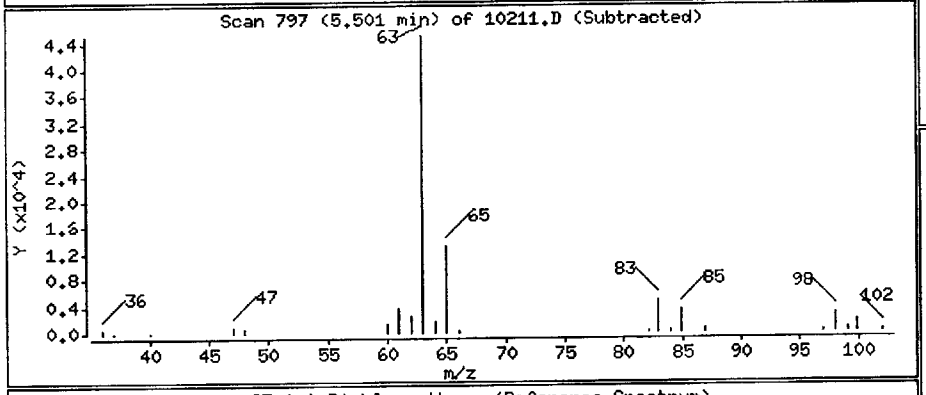
Column diameter: 0.18

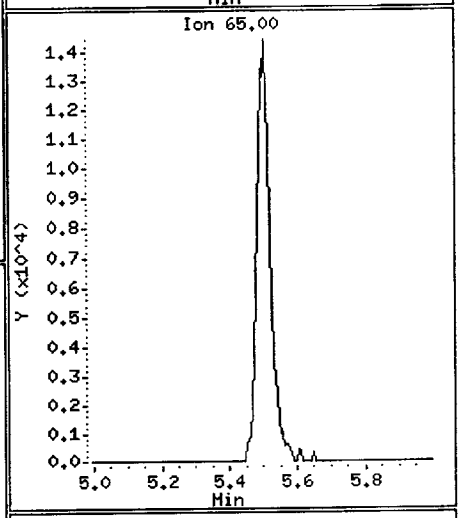
23 1,1-Dichloroethane

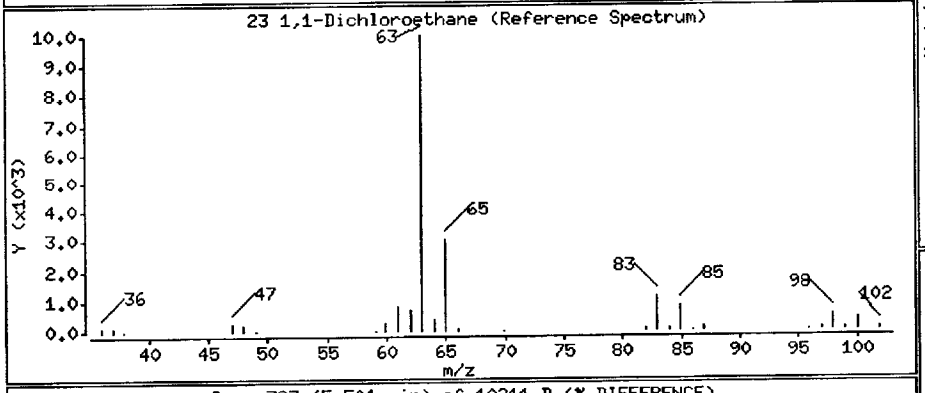
Concentration: 20.6 ug/l

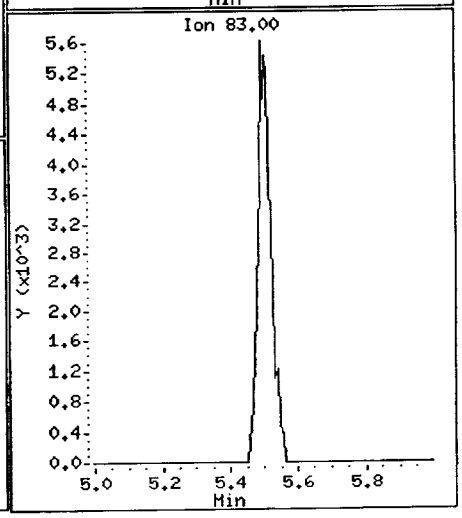


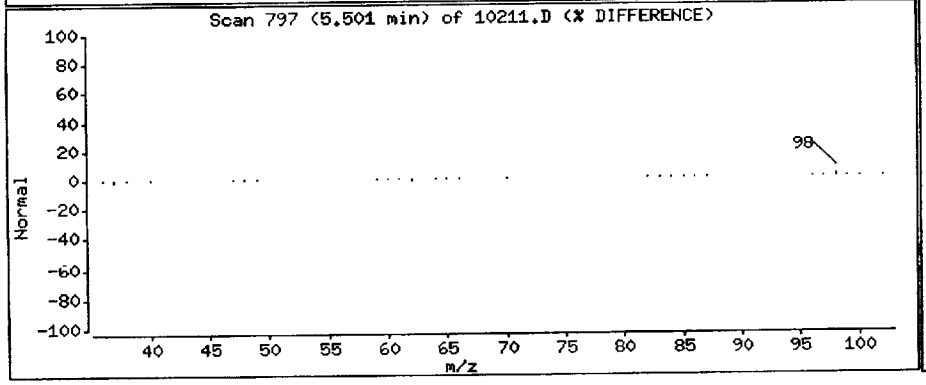












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10211.D

Date : 25-SEP-2002 08:01

Client ID: 11Q30228MSD

Instrument: vms03.i

Sample Info: 220910211;2209102;1;

Purge Volume: 5.0

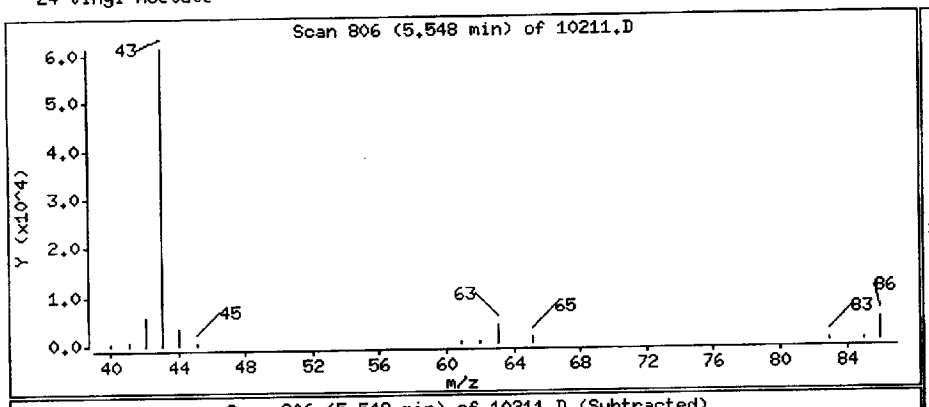
Operator:

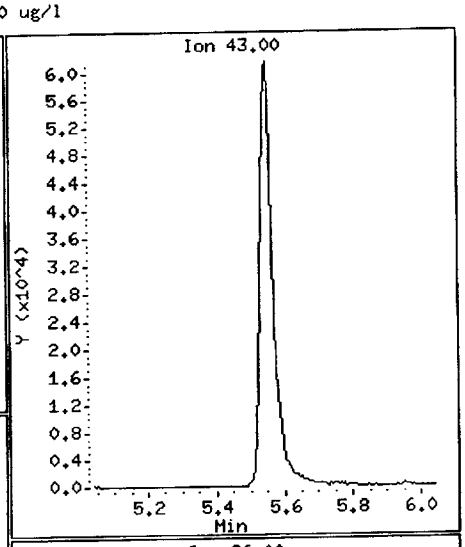
Column phase: DB-624

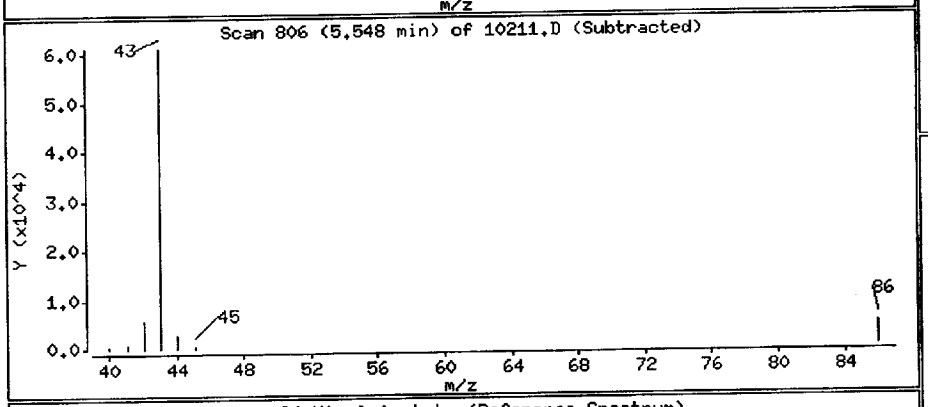
Column diameter: 0.18

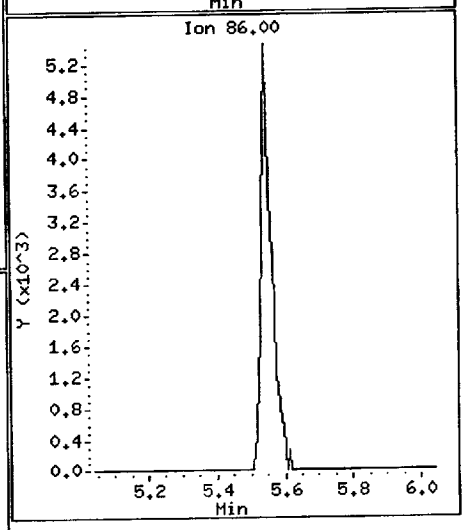
24 Vinyl Acetate

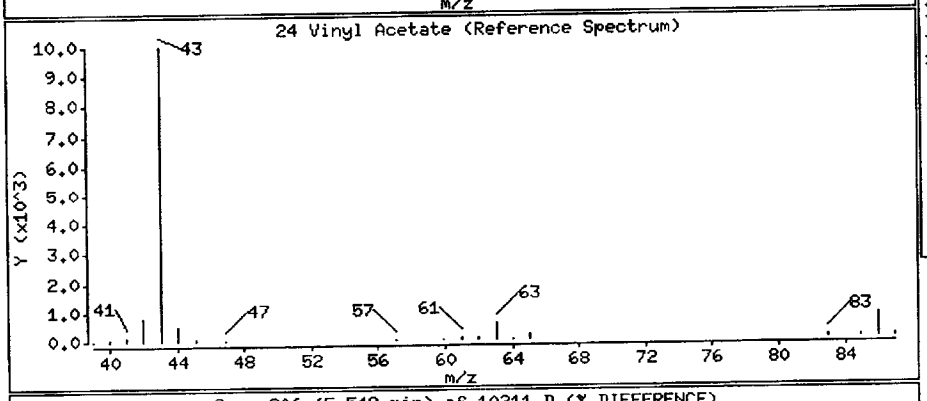
Concentration: 18.0 ug/l

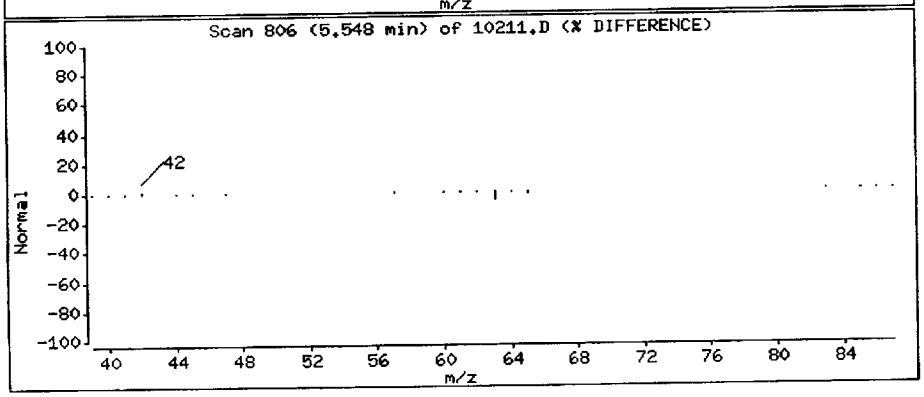












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10211.D

Date : 25-SEP-2002 08:01

Client ID: 11Q30228MSD

Instrument: vms03.i

Sample Info: 220910211;2209102;1;

Operator:

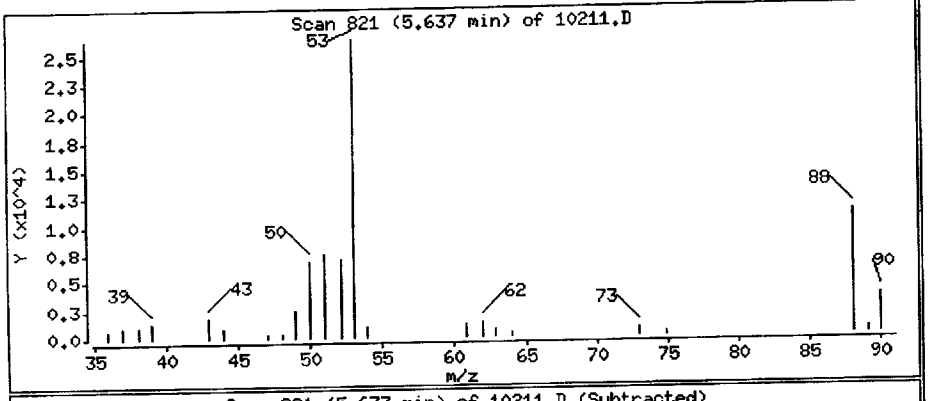
Purge Volume: 5.0

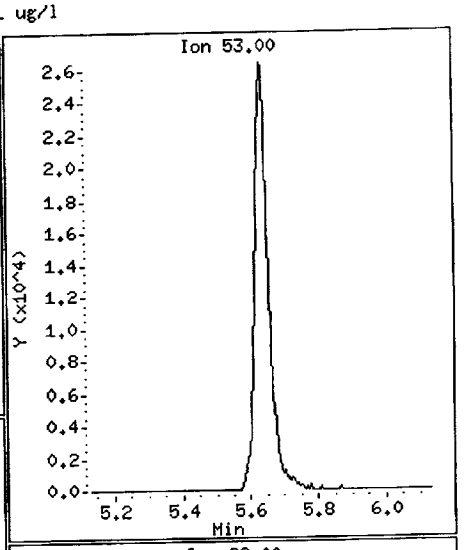
Column diameter: 0.18

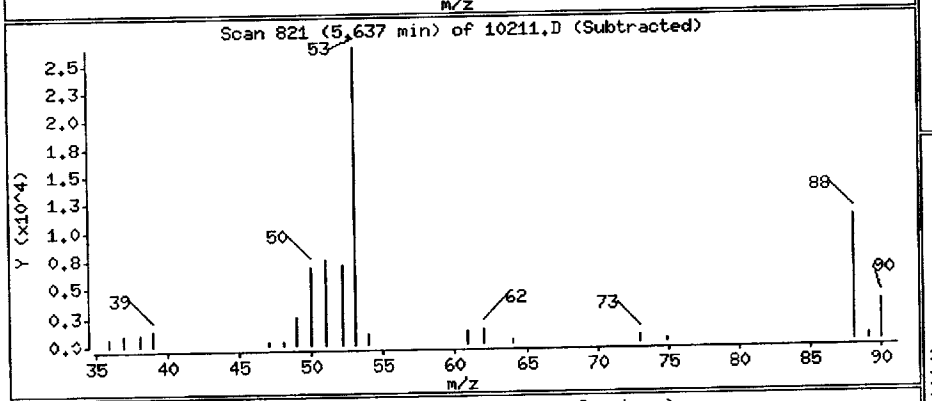
Column phase: DB-624

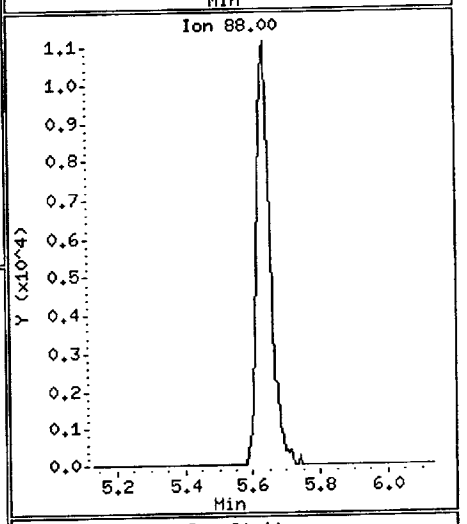
Concentration: 21.1 ug/l

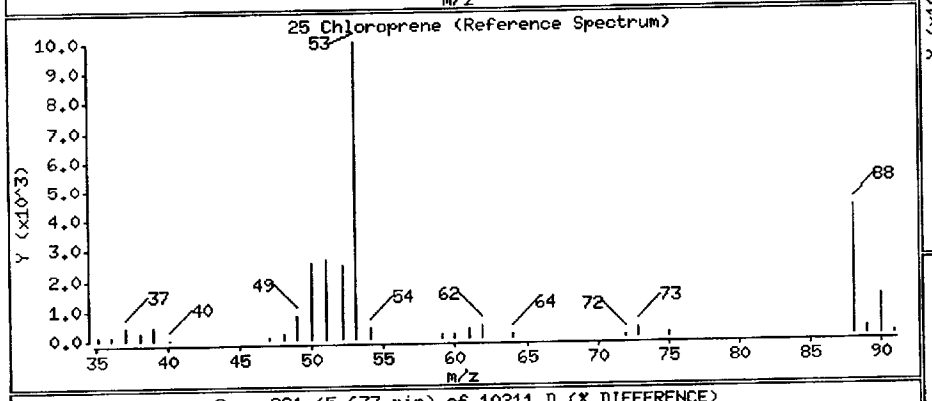
25 Chloroprene

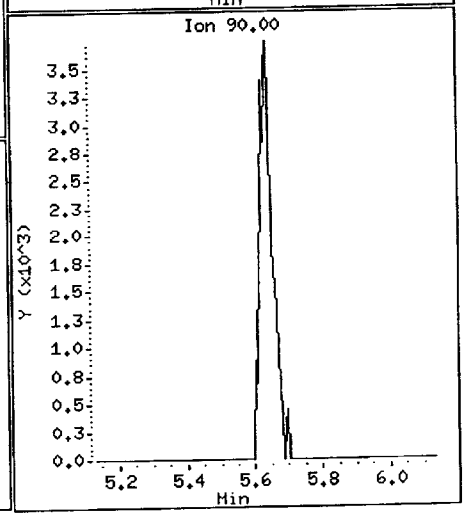


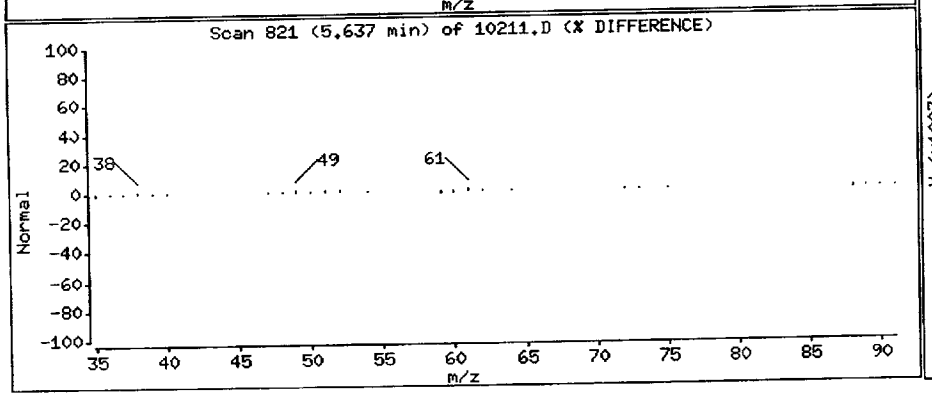












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10211.D

Date : 25-SEP-2002 08:01

Client ID: 11Q30228MSD

Instrument: vms03.i

Sample Info: 220910211;2209102;1;

Purge Volume: 5.0

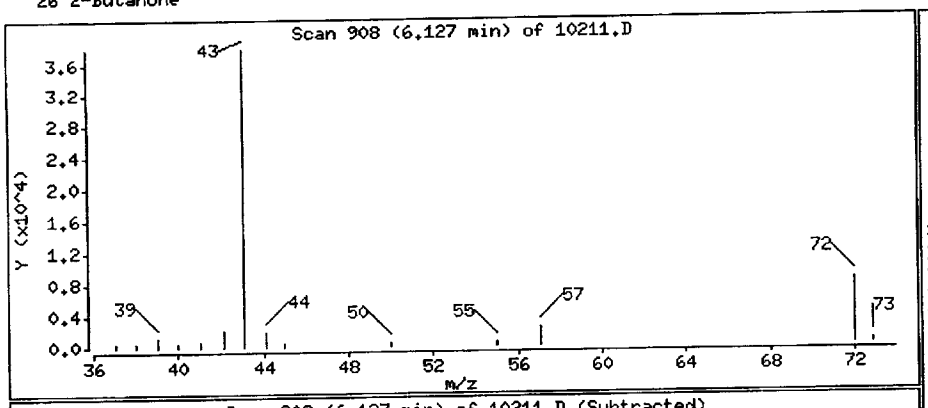
Operator:

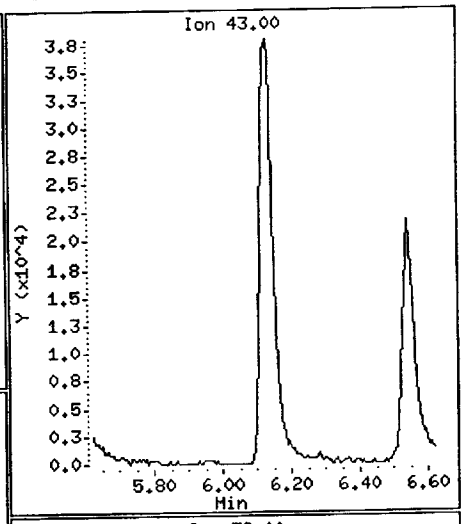
Column phase: DB-624

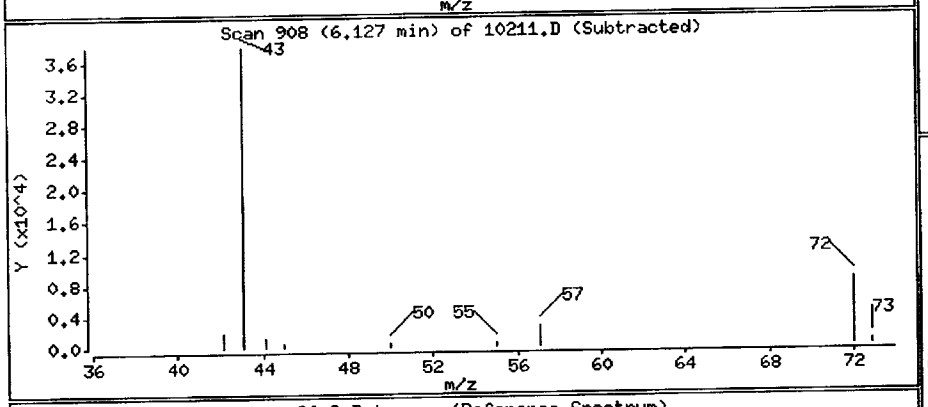
Column diameter: 0.18

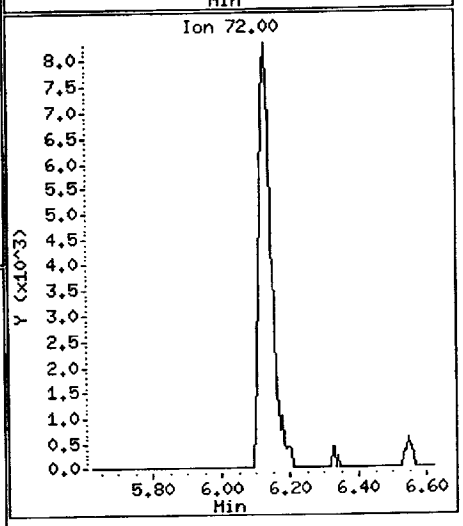
Concentration: 56.7 ug/l

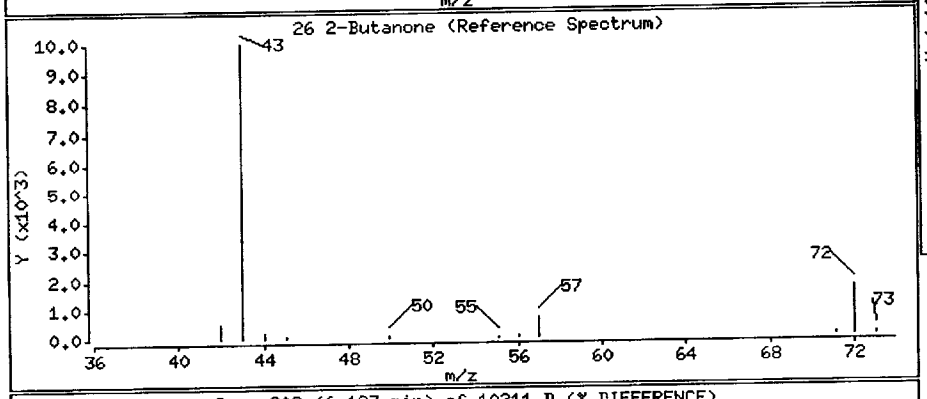
26 2-Butanone

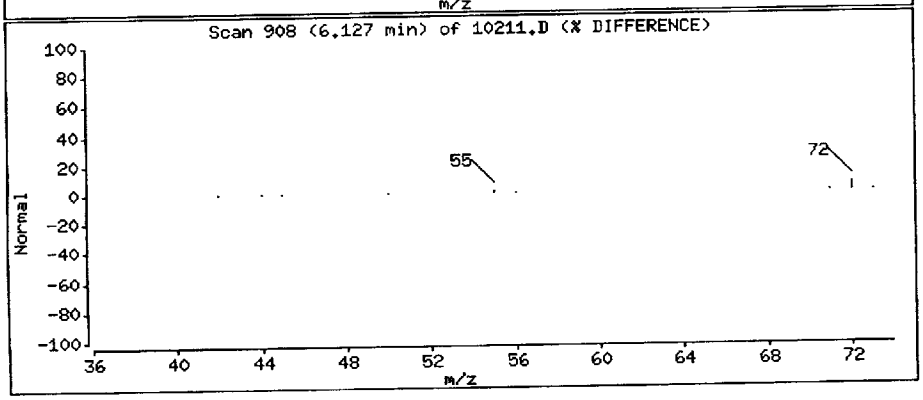












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10211.D

Date : 25-SEP-2002 08:01

Client ID: 11Q30228MSD

Instrument: vms03.i

Sample Info: 220910211;2209102;1;

Purge Volume: 5.0

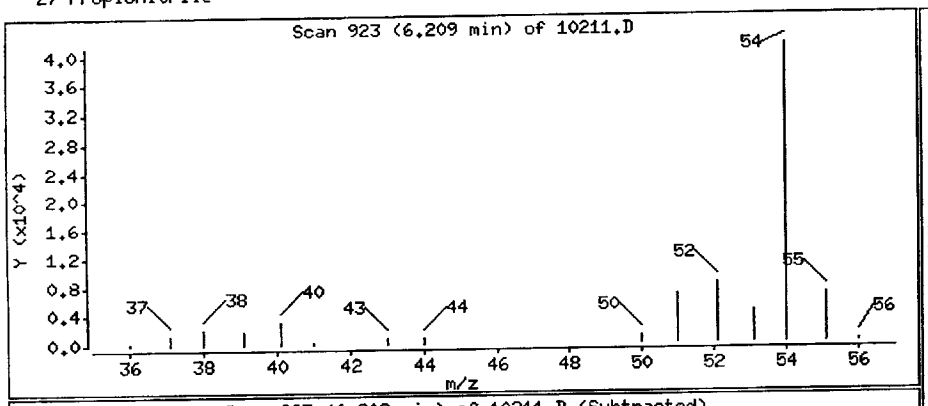
Operator:

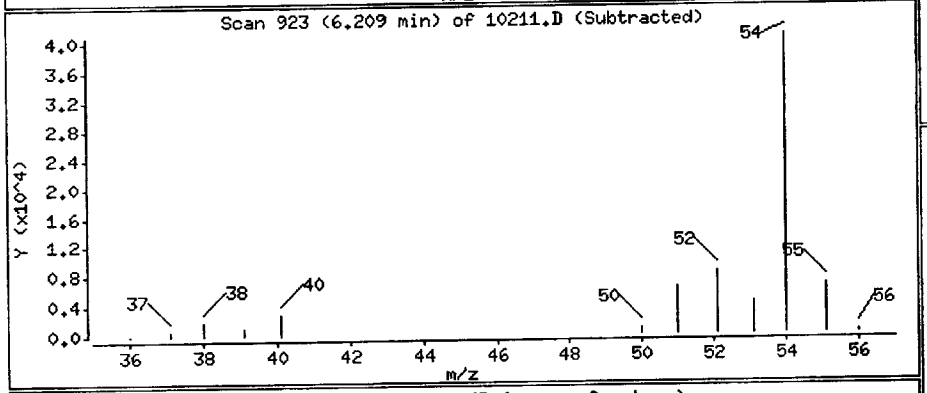
Column phase: DB-624

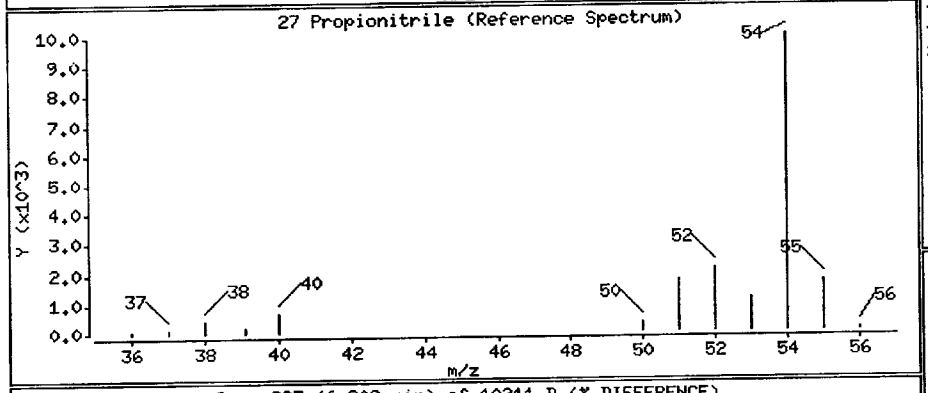
Column diameter: 0.18

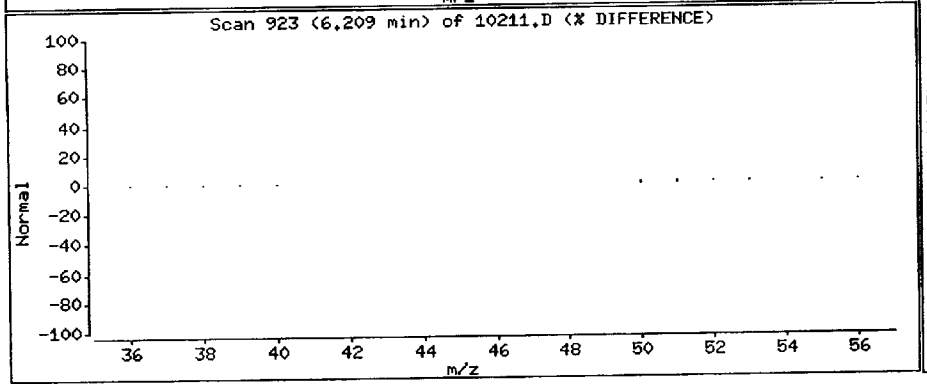
27 Propionitrile

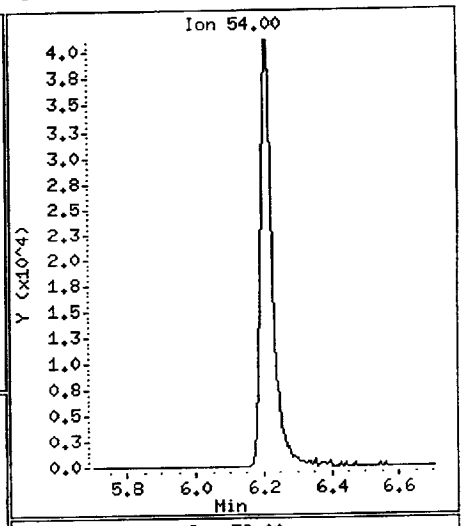
Concentration: 198 ug/l

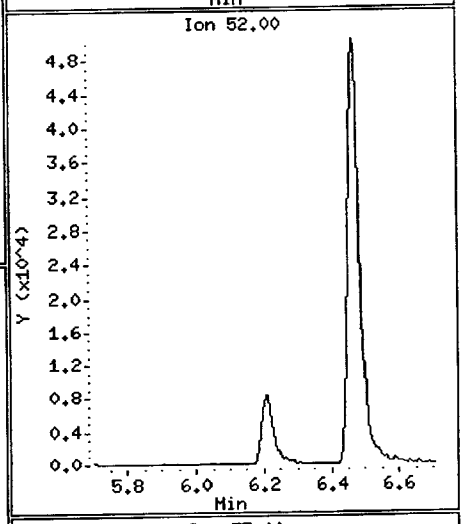


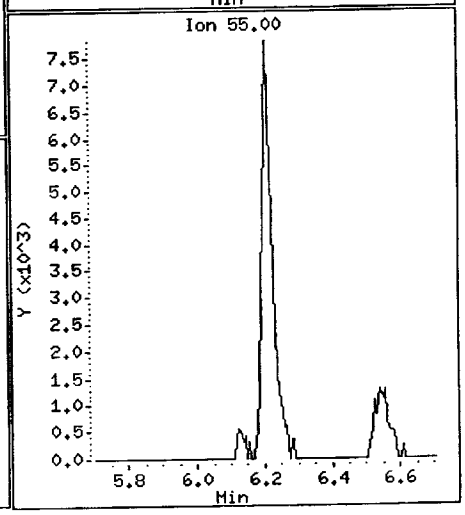












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10211.D

Date : 25-SEP-2002 08:01

Client ID: 11Q30228MSD

Instrument: vms03.i

Sample Info: 220910211;2209102;1;

Purge Volume: 5.0

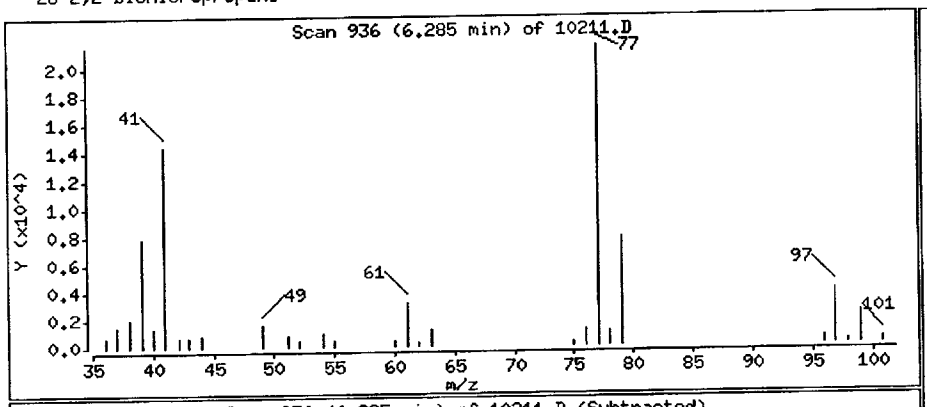
Operator:

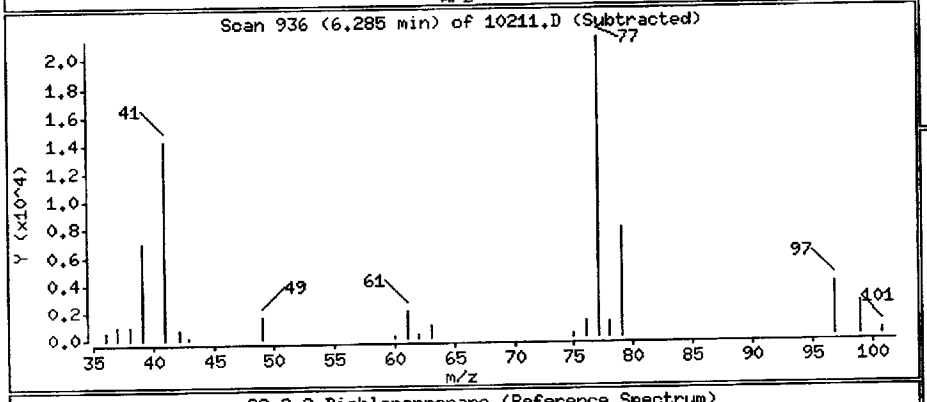
Column phase: DB-624

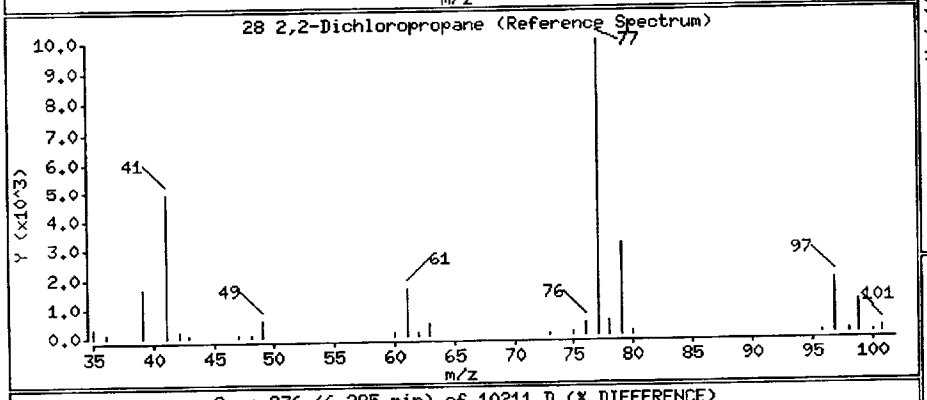
Column diameter: 0.18

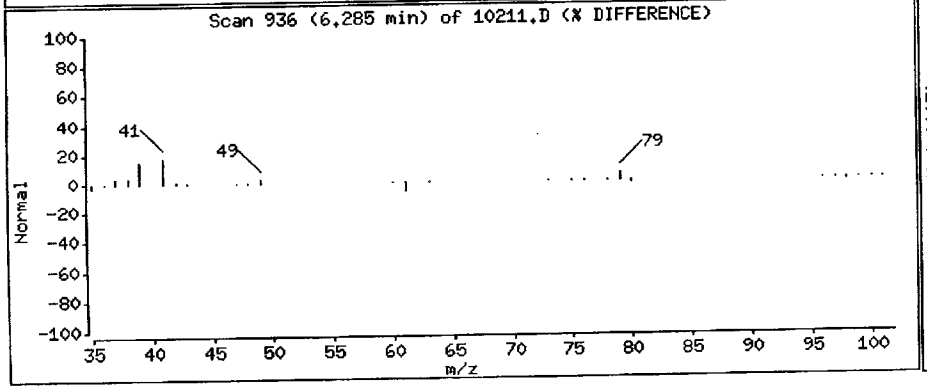
28 2,2-Dichloropropane

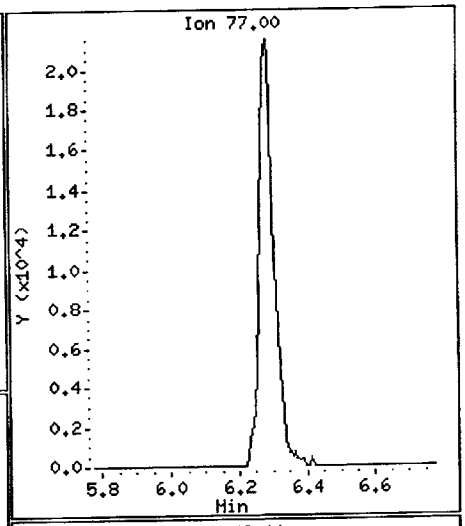
Concentration: 20.2 ug/l

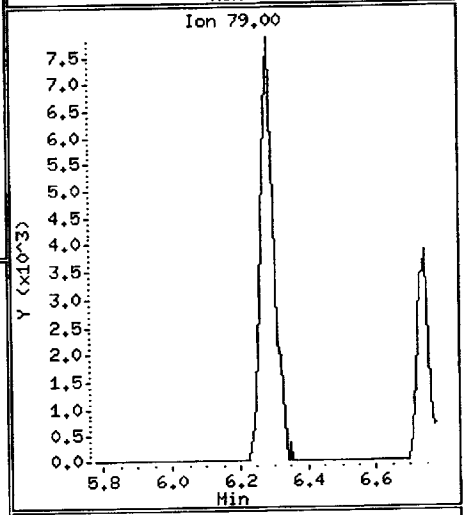


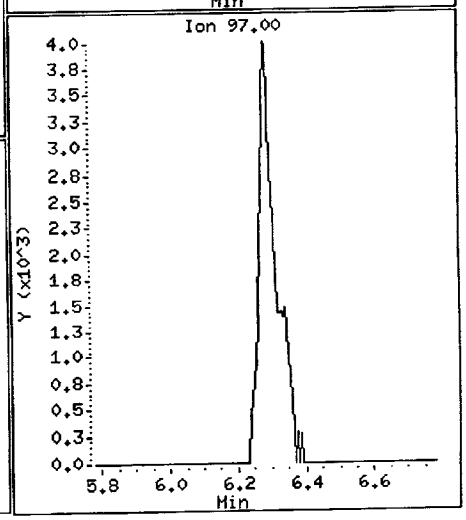












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10211.D

Date : 25-SEP-2002 08:01

Client ID: 11Q30228HSD

Instrument: vms03.i

Sample Info: 220910211;2209102;1;

Purge Volume: 5.0

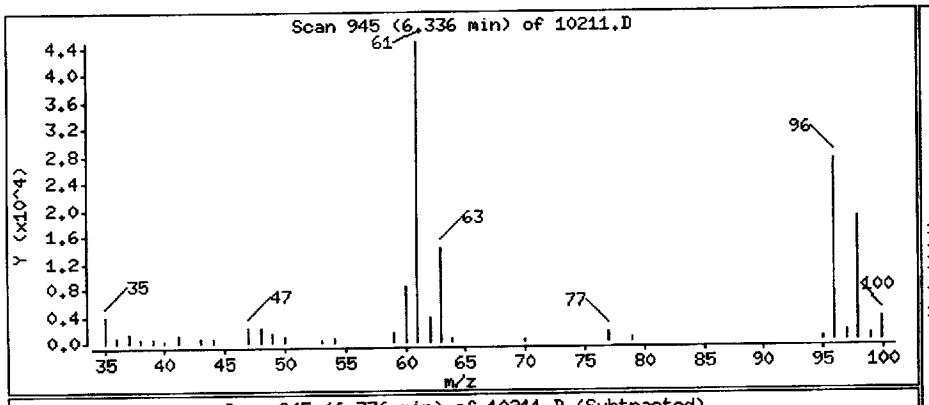
Operator:

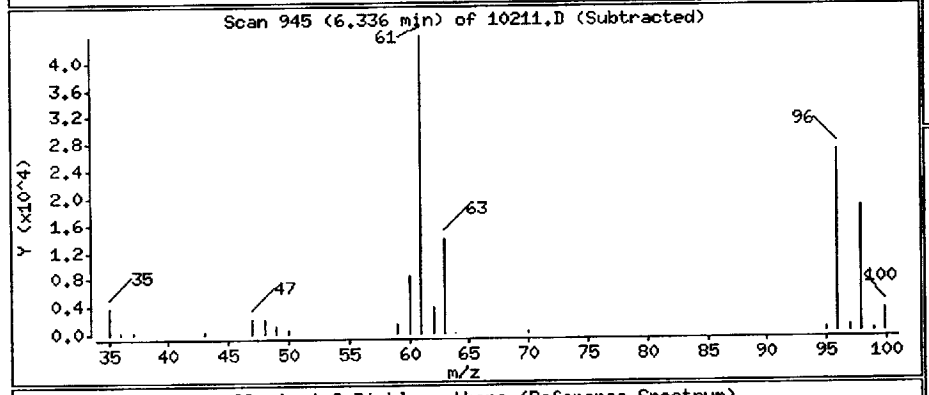
Column phase: DB-624

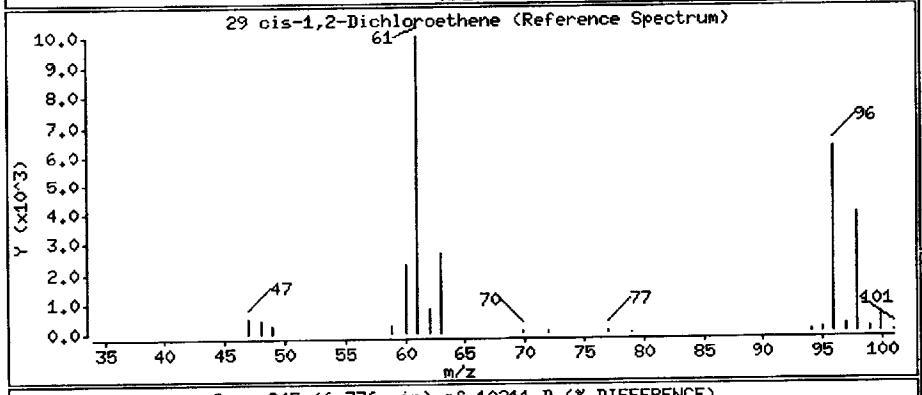
Column diameter: 0.18

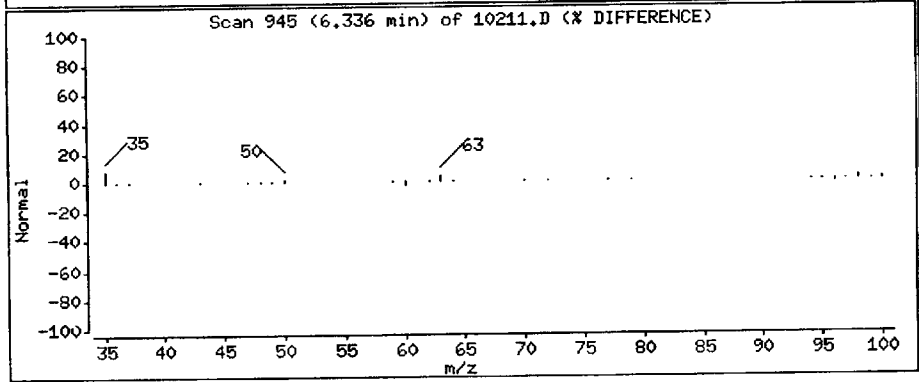
29 cis-1,2-Dichloroethene

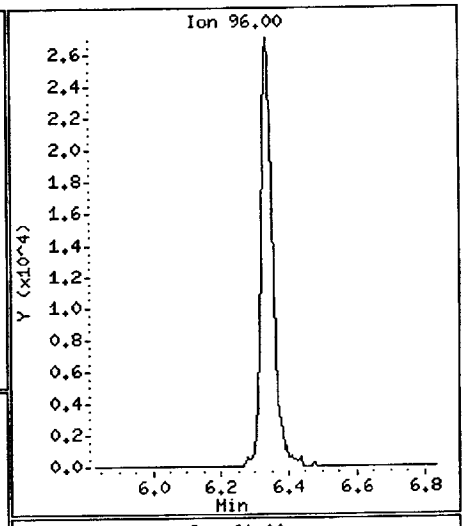
Concentration: 20.5 ug/l

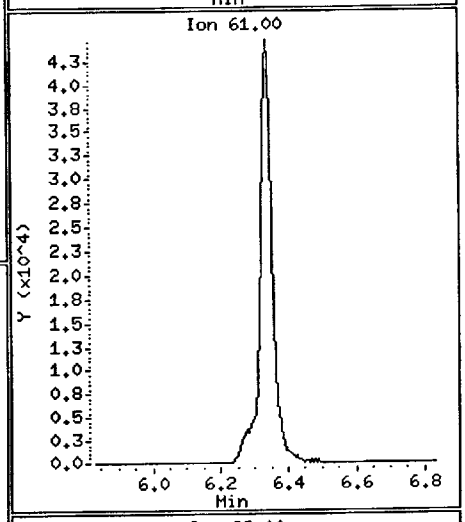


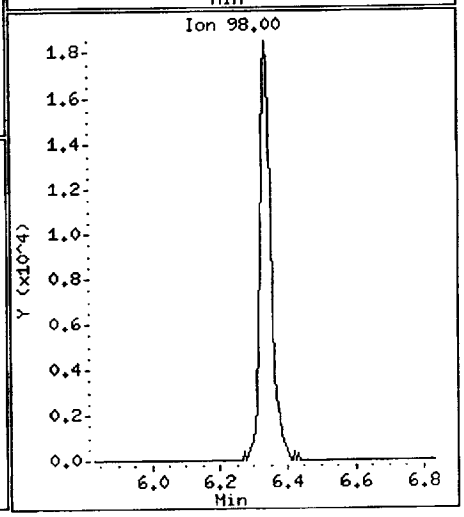












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10211.D

Date : 25-SEP-2002 08:01

Client ID: 11Q30228MSD

Instrument: vms03.i

Sample Info: 220910211;2209102;1;

Purge Volume: 5.0

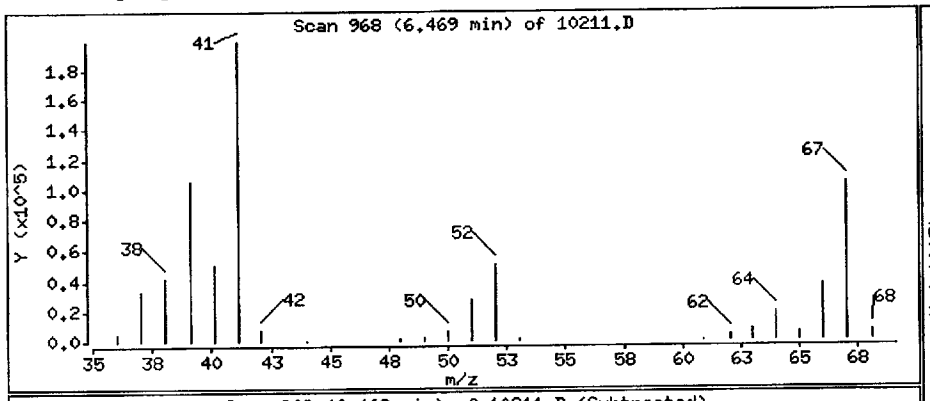
Operator:

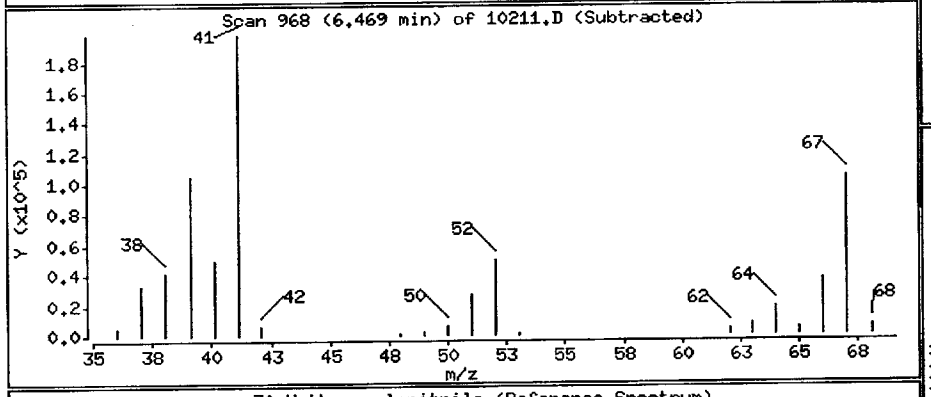
Column phase: DB-624

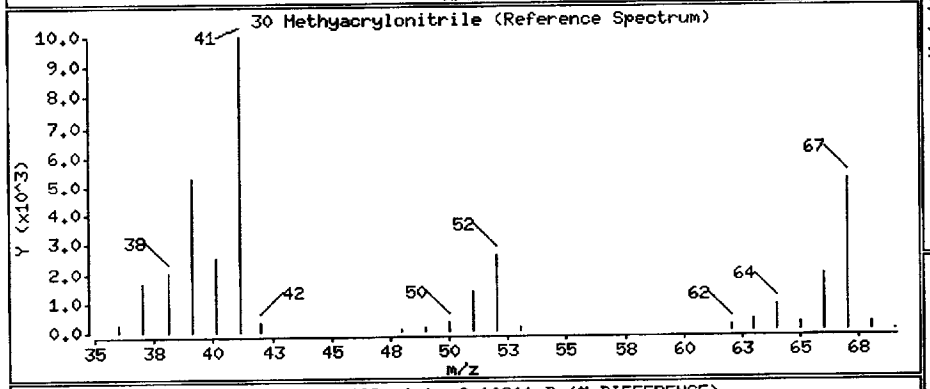
Column diameter: 0.18

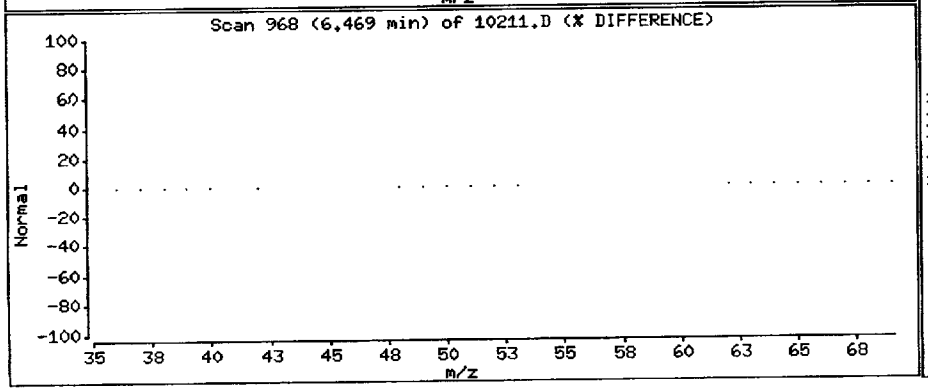
30 Methyacrylonitrile

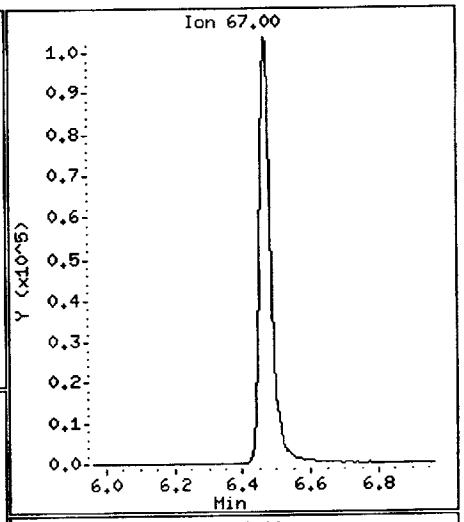
Concentration: 197 ug/l

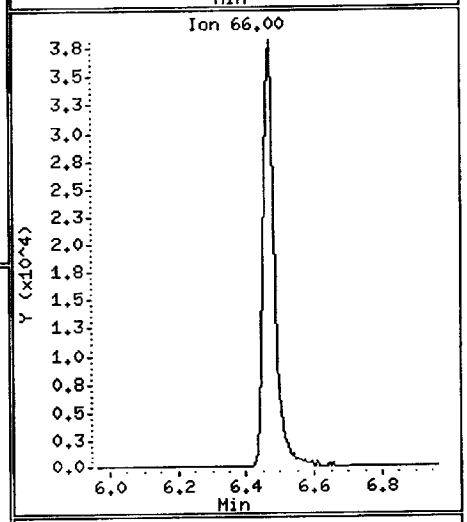


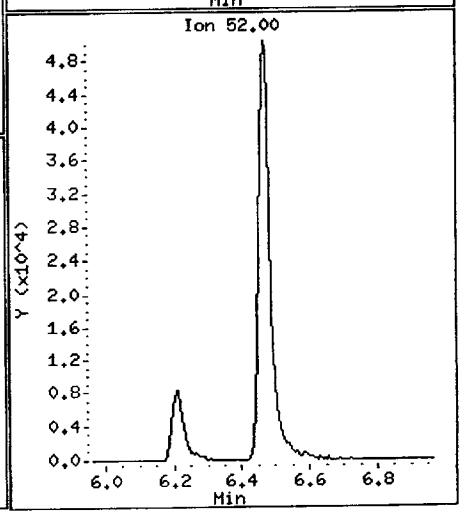












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10211.D

Date : 25-SEP-2002 08:01

Client ID: 11Q30228MSD

Instrument: vms03.i

Sample Info: 220910211;2209102;1;

Purge Volume: 5.0

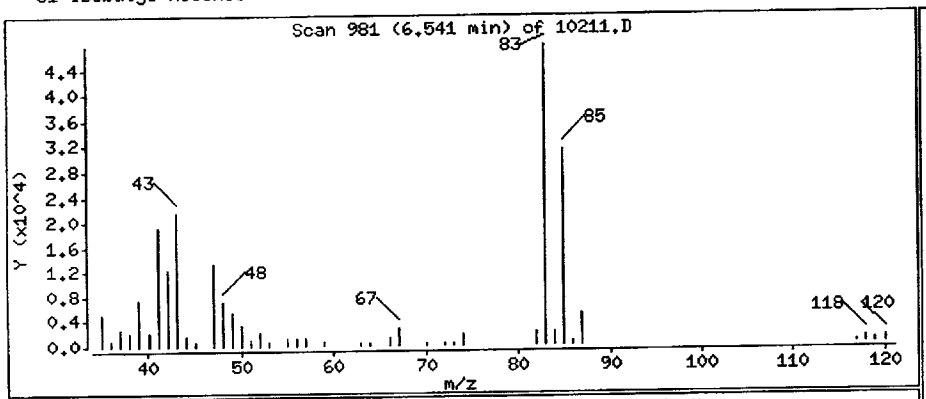
Operator:

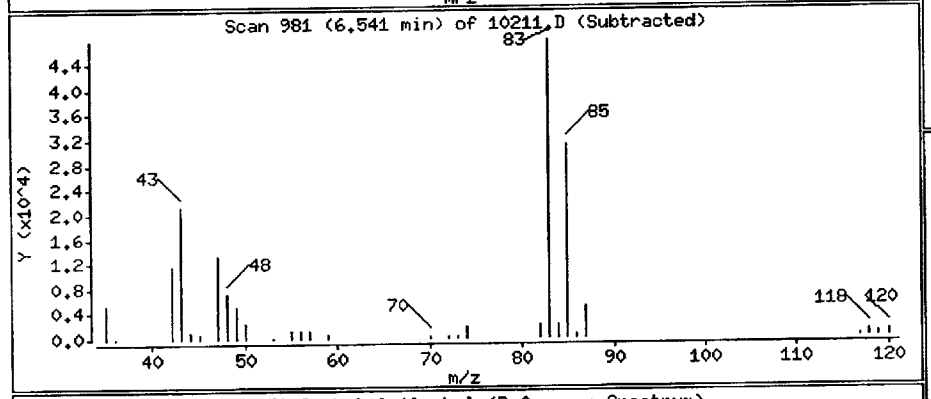
Column phase: DB-624

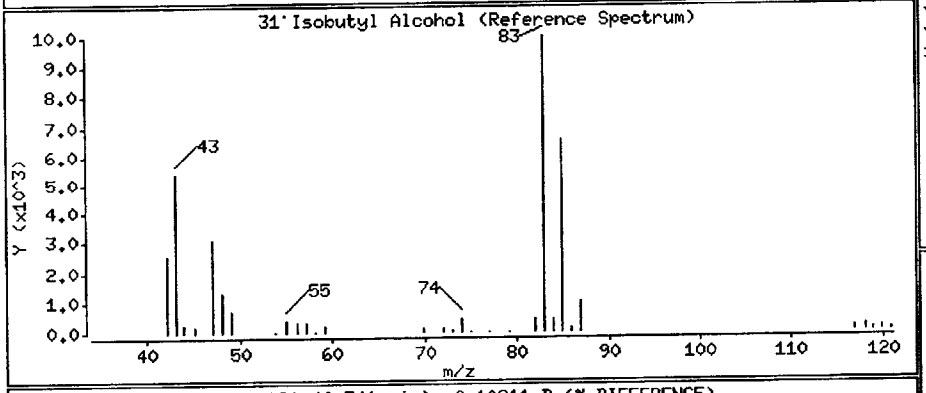
Column diameter: 0.18

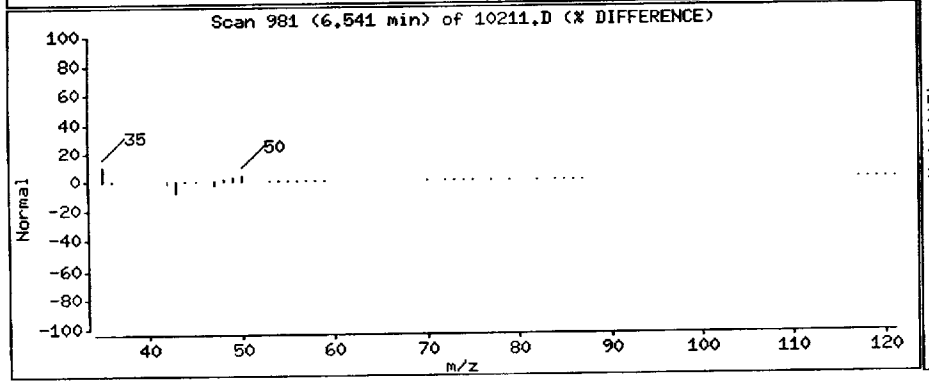
31 Isobutyl Alcohol

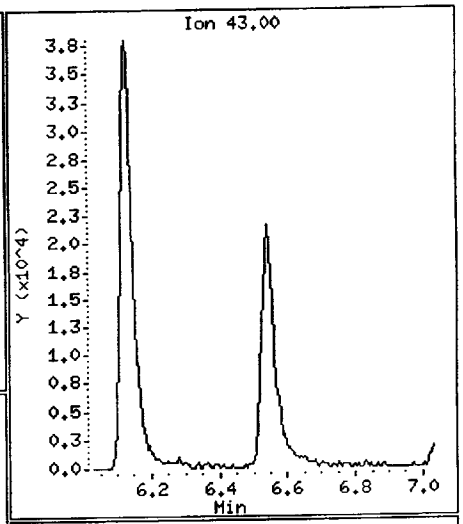
Concentration: 384 ug/l

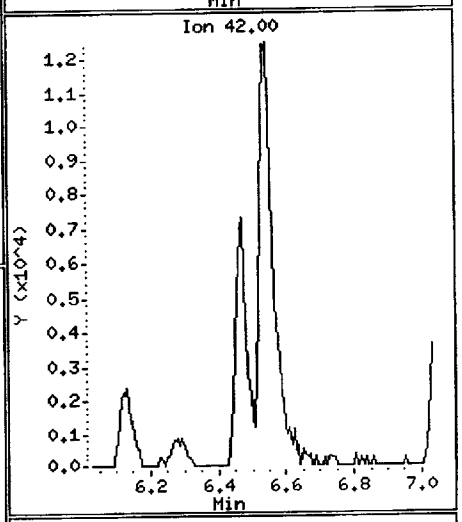


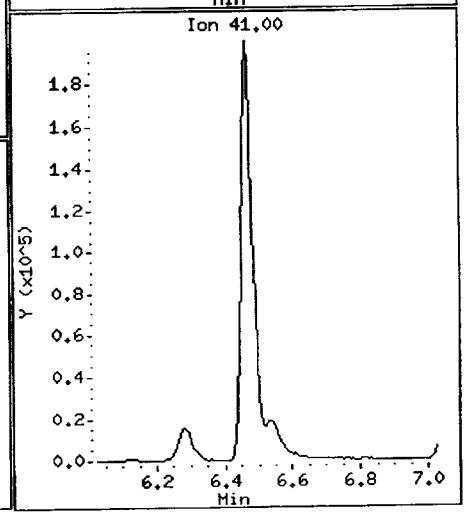












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10211.D

Date : 25-SEP-2002 08:01

Client ID: 11Q30228MSD

Instrument: vms03.i

Sample Info: 220910211;2209102;1;

Purge Volume: 5.0

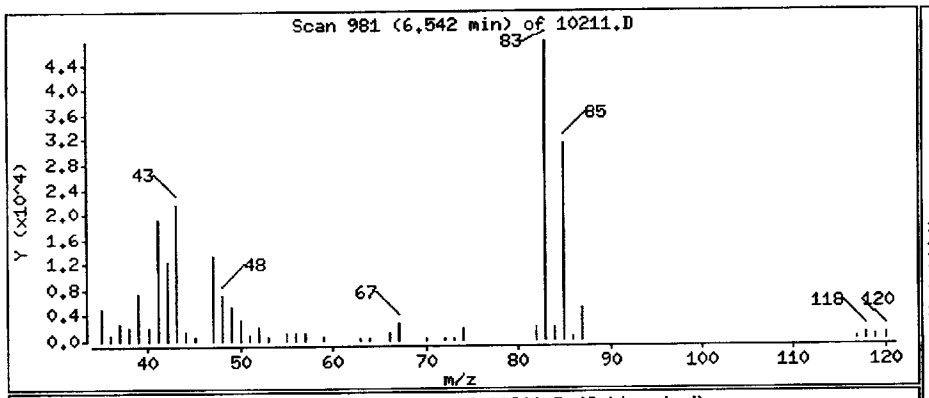
Operator:

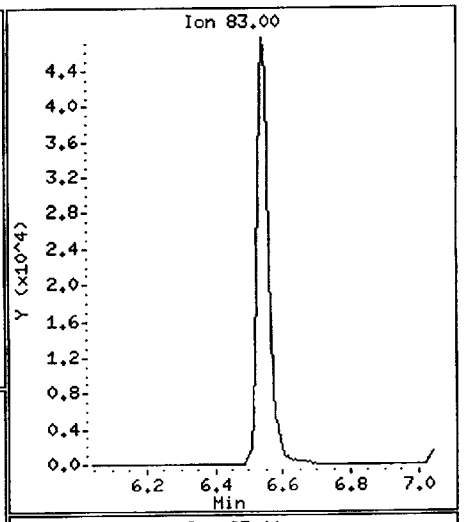
Column phase: DB-624

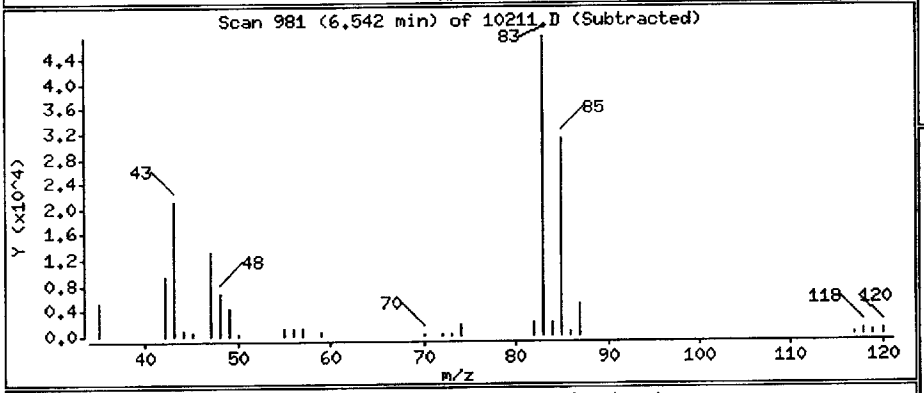
Column diameter: 0.18

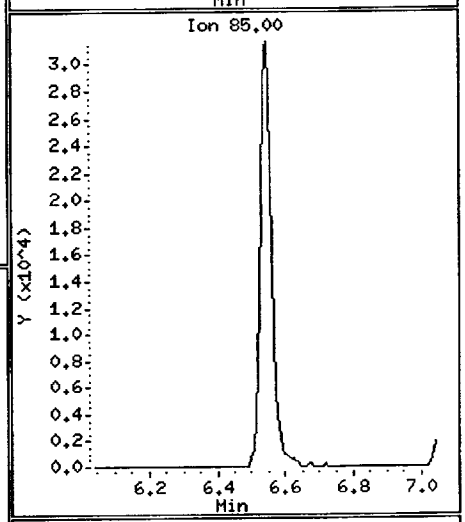
32 Chloroform

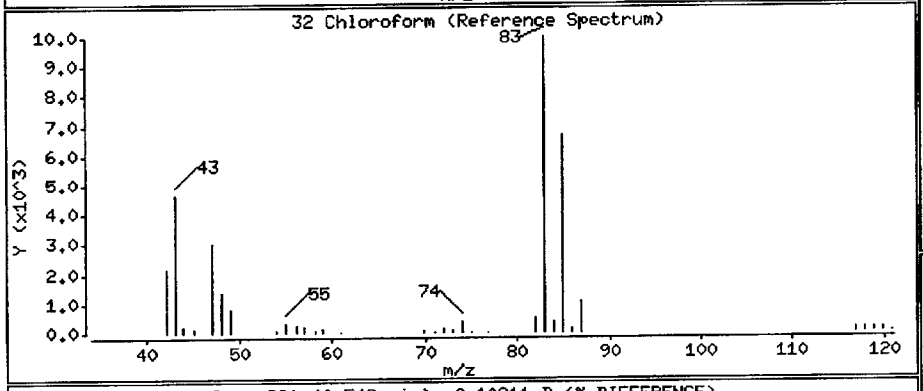
Concentration: 19.8 ug/l

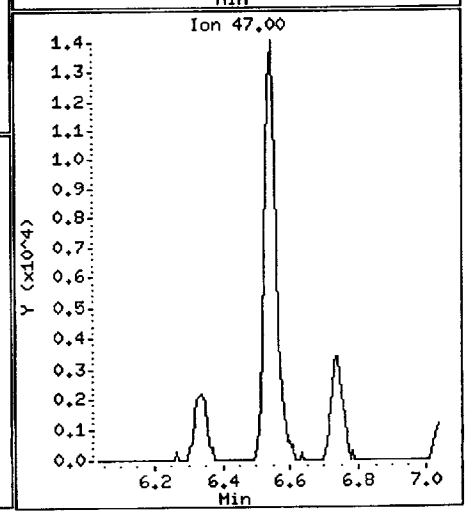


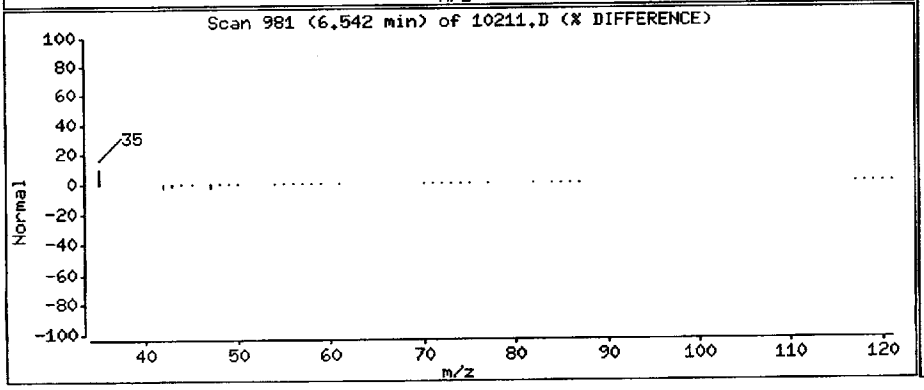












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10211.D

Date : 25-SEP-2002 08:01

Client ID: 11Q30228MSD

Instrument: vms03.i

Sample Info: 220910211;2209102;1;

Purge Volume: 5.0

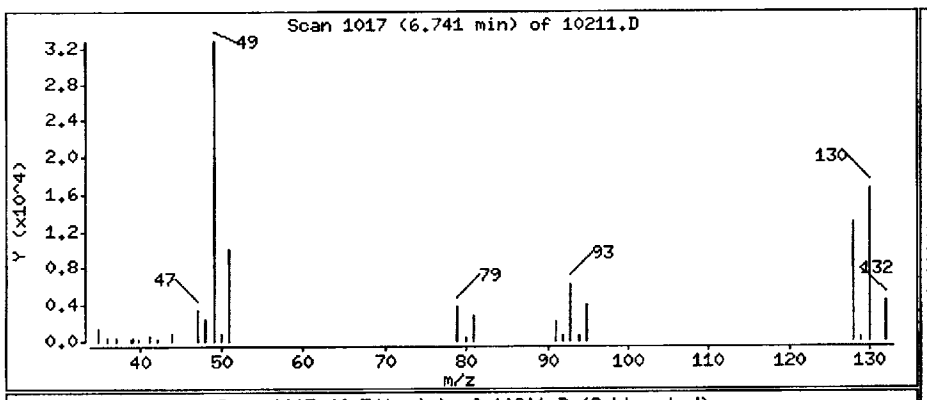
Operator:

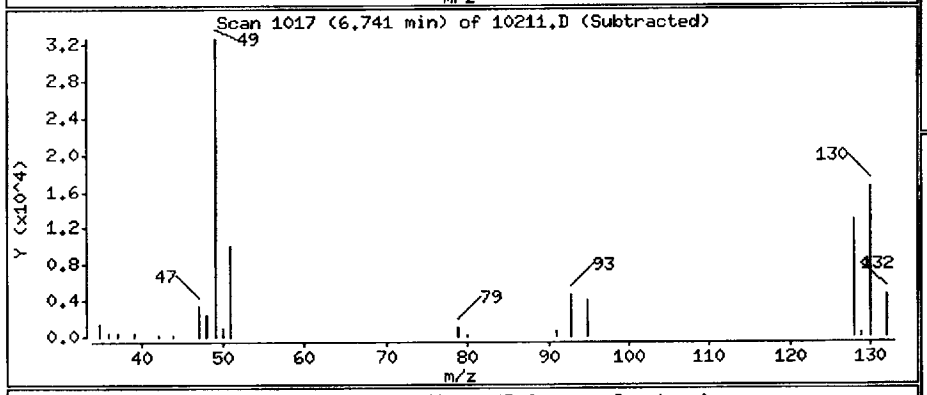
Column phase: DB-624

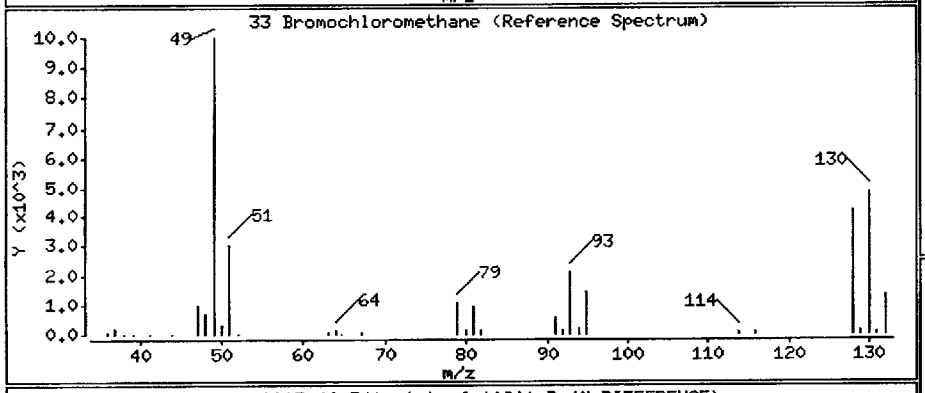
Column diameter: 0.18

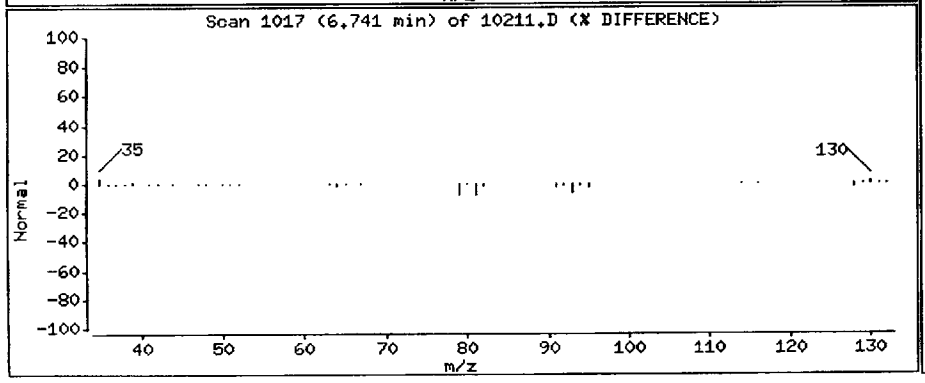
33 Bromochloromethane

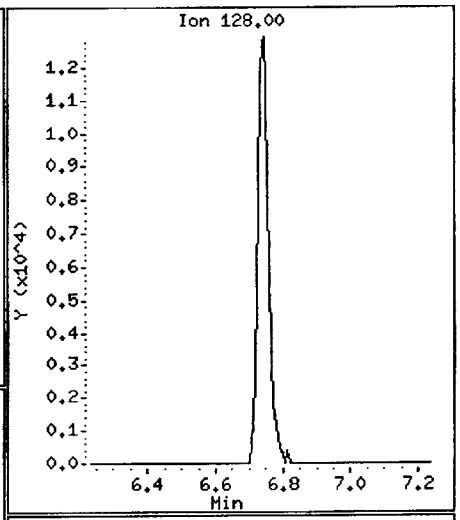
Concentration: 21.0 ug/l

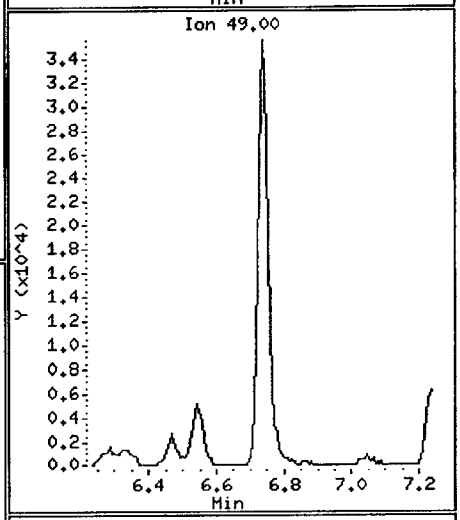


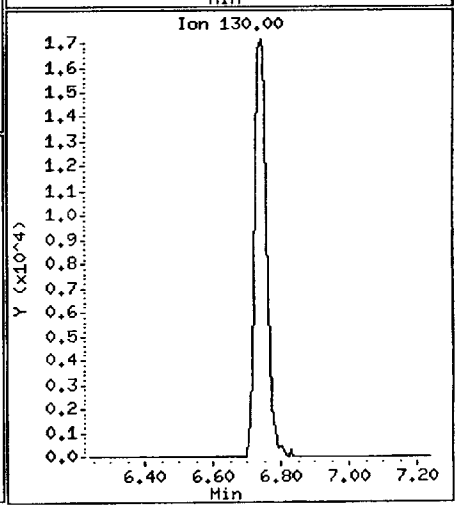












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10211.D

Date : 25-SEP-2002 08:01

Client ID: 11Q30228MSD

Instrument: vms03.i

Sample Info: 220910211;2209102;1;

Purge Volume: 5.0

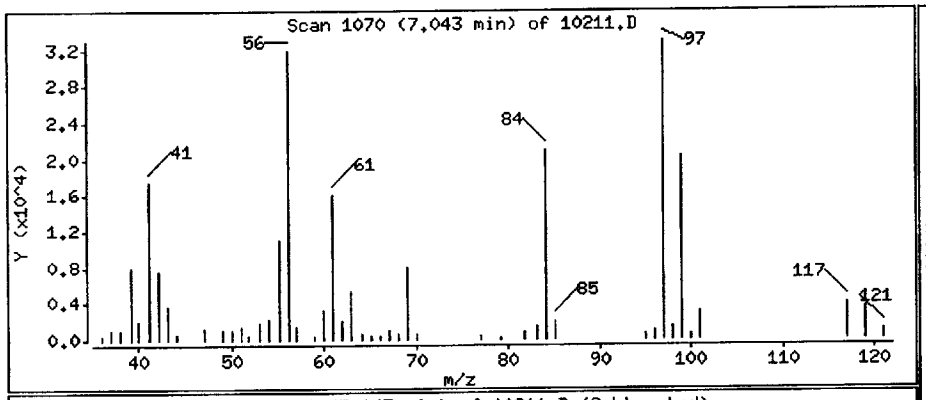
Operator:

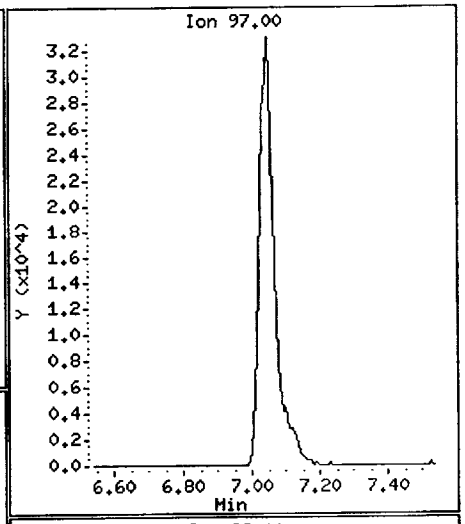
Column phase: DB-624

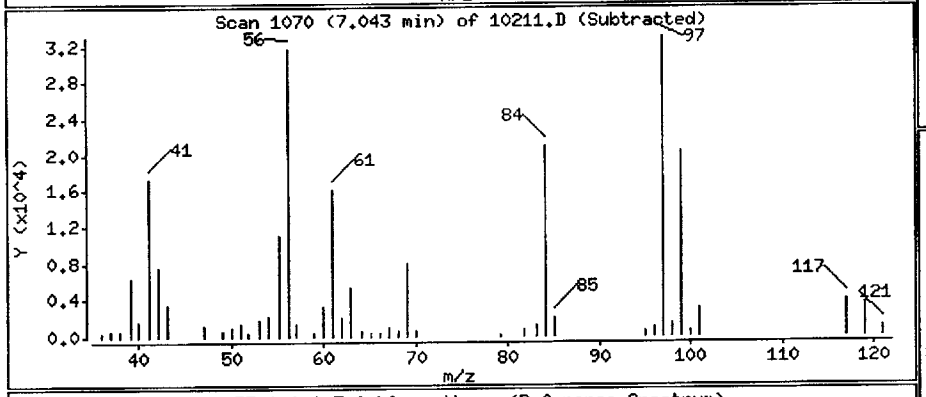
Column diameter: 0.18

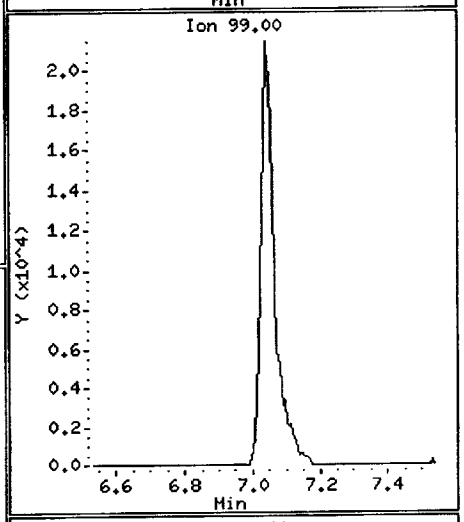
35 1,1,1-Trichloroethane

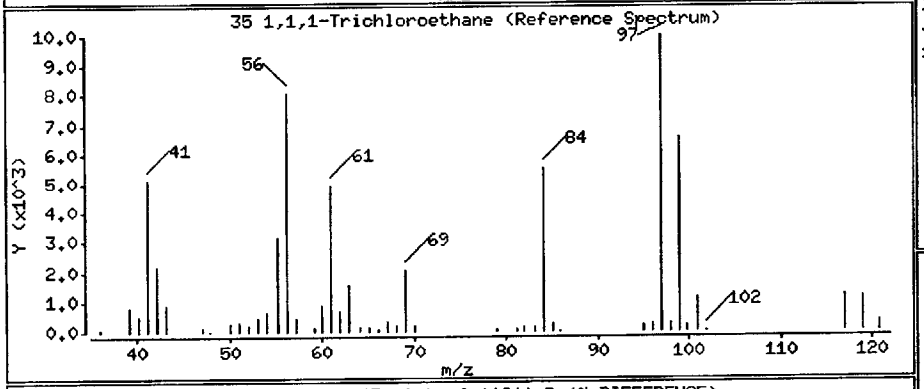
Concentration: 20.5 ug/l

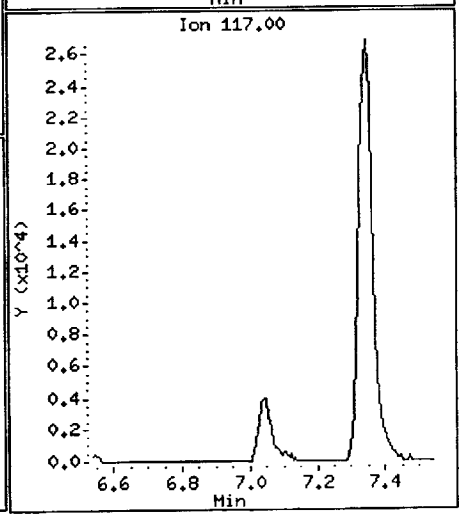


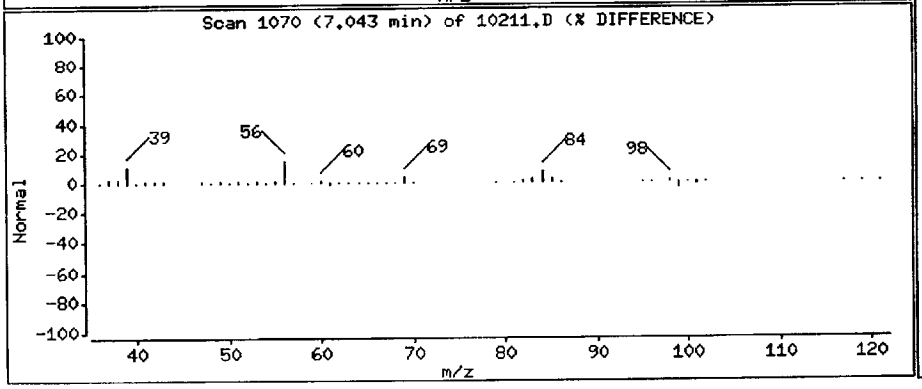












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10211.D

Date : 25-SEP-2002 08:01

Client ID: 11Q30228MSD

Instrument: vms03.i

Sample Info: 220910211;2209102;1;

Purge Volume: 5.0

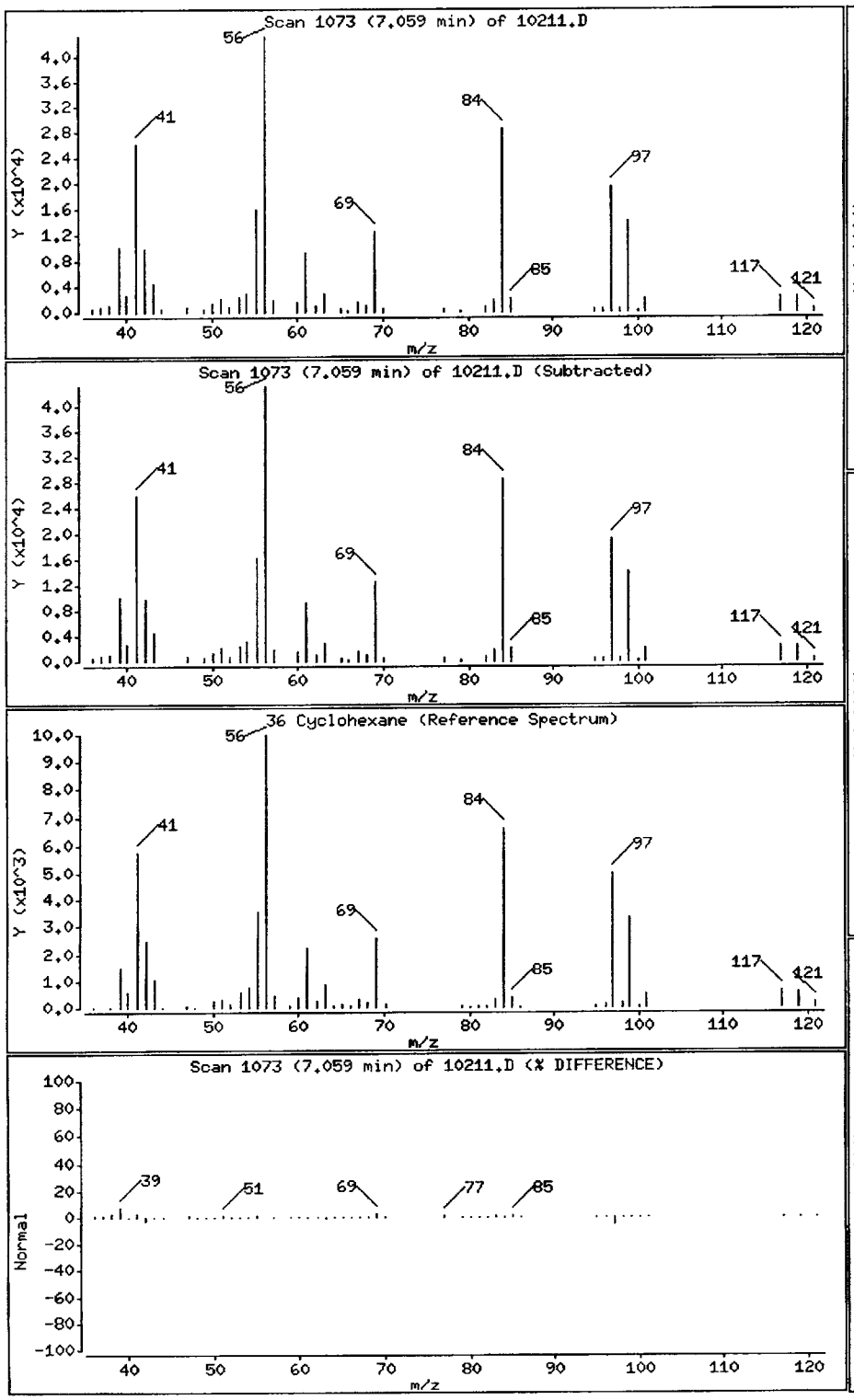
Operator:

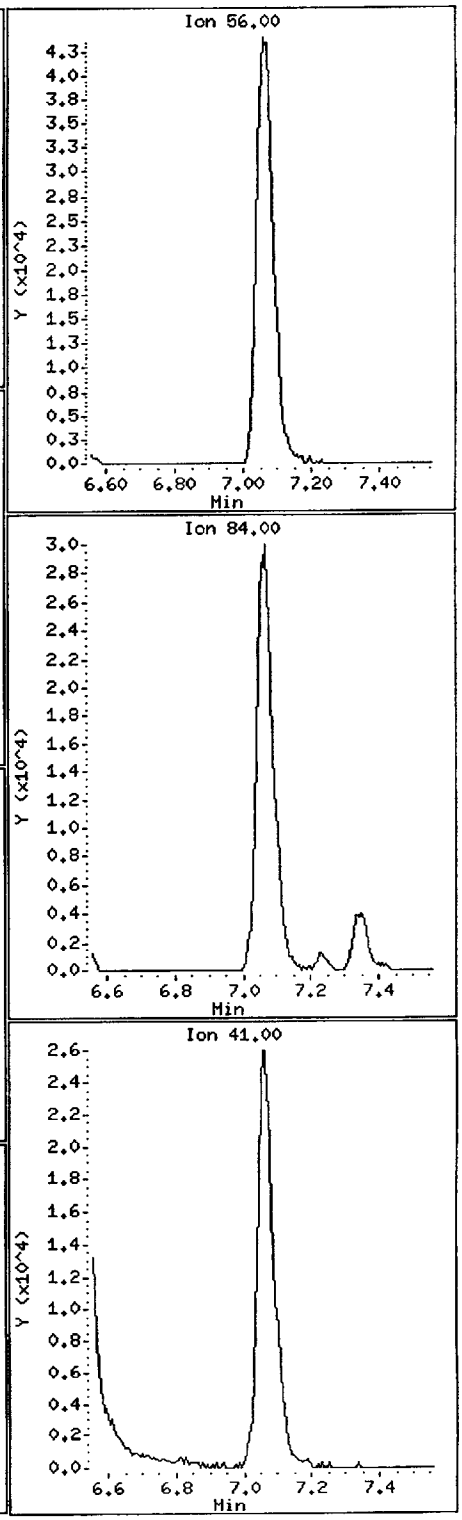
Column phase: DB-624

Column diameter: 0.18

36 Cyclohexane

Concentration: 20.1 ug/l





Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10211.D

Date : 25-SEP-2002 08:01

Client ID: 11Q30228MSD

Instrument: vms03.i

Sample Info: 220910211;2209102;1;

Purge Volume: 5.0

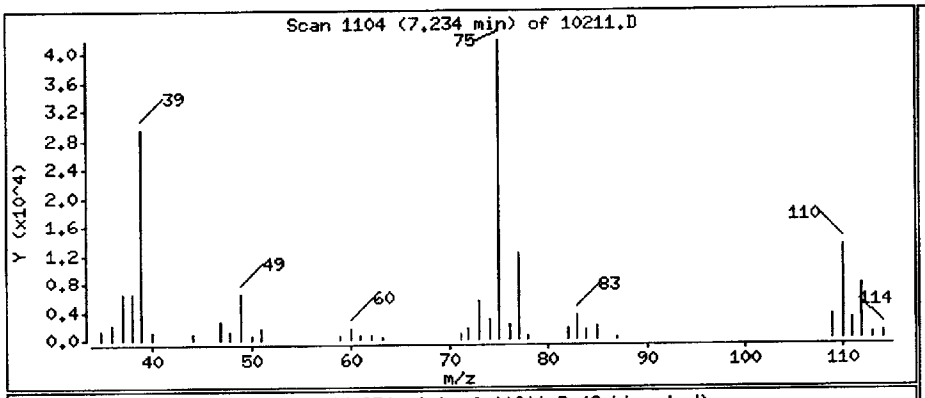
Operator:

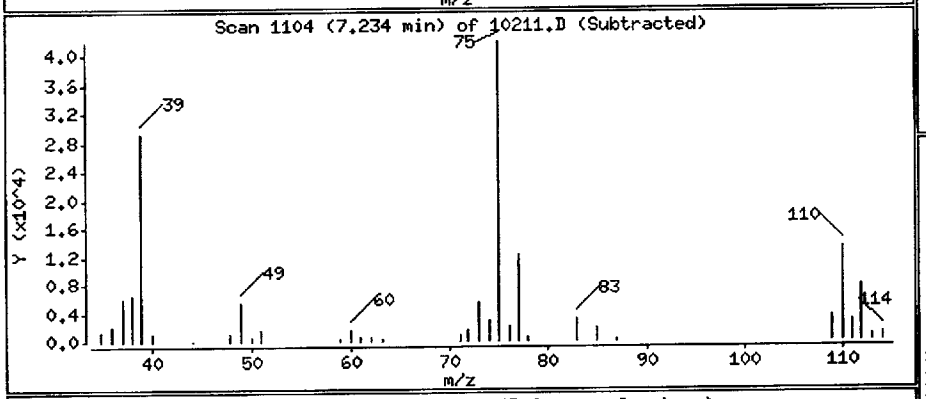
Column phase: DB-624

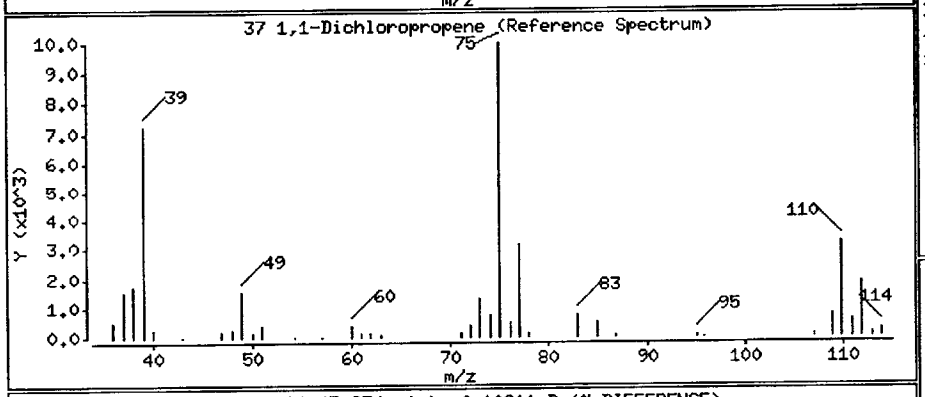
Column diameter: 0.18

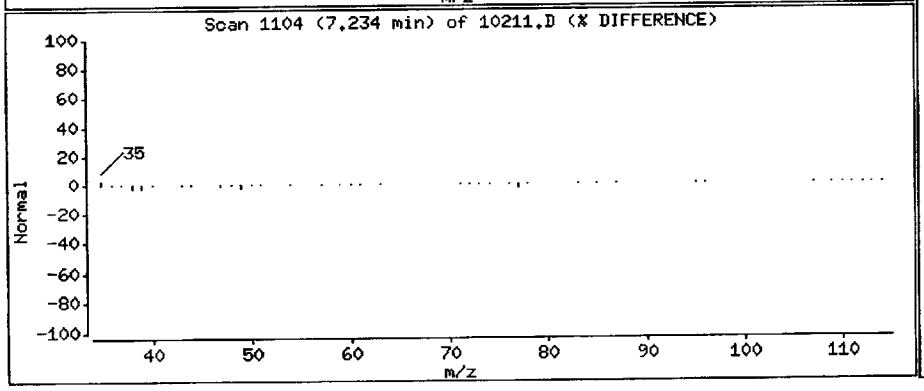
37 1,1-Dichloropropene

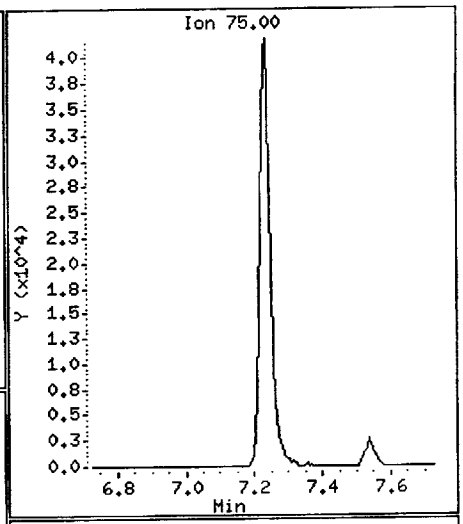
Concentration: 20.6 ug/l

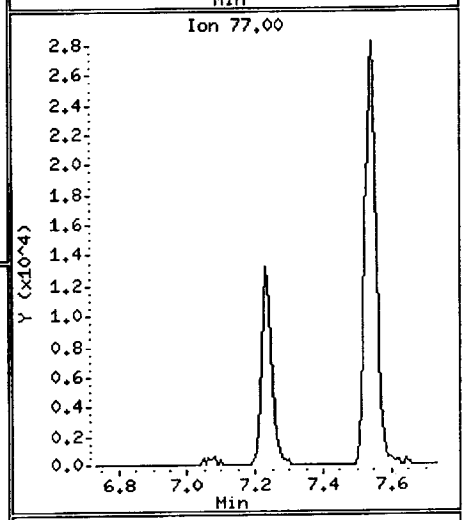


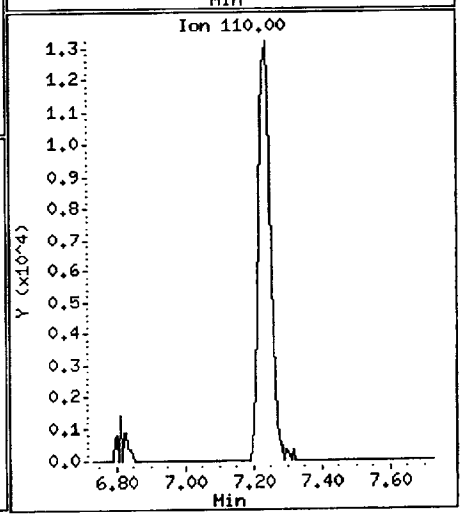












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10211.D

Date : 25-SEP-2002 08:01

Client ID: 11Q30228MSD

Instrument: vms03.i

Sample Info: 220910211;2209102;1;

Purge Volume: 5.0

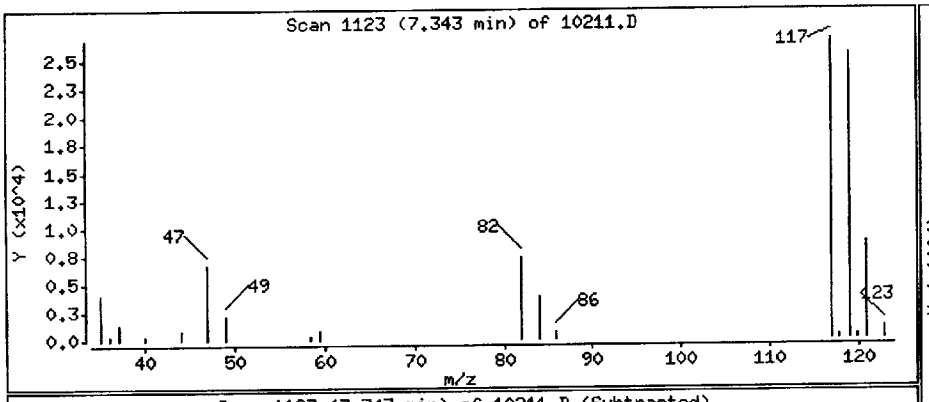
Operator:

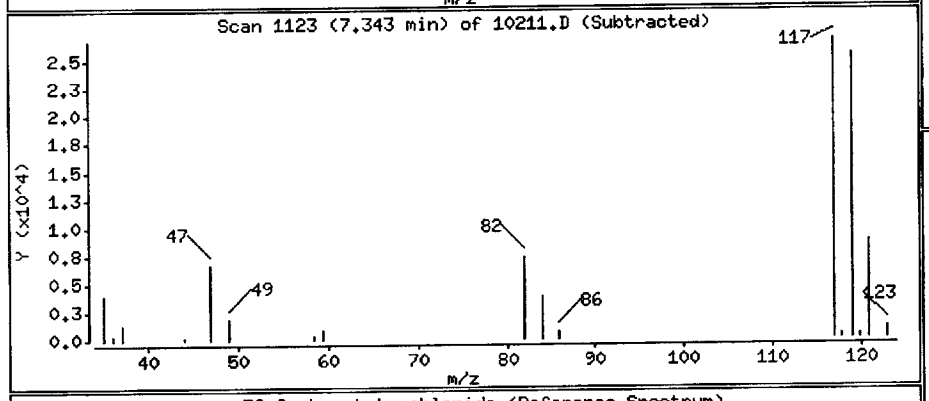
Column phase: DB-624

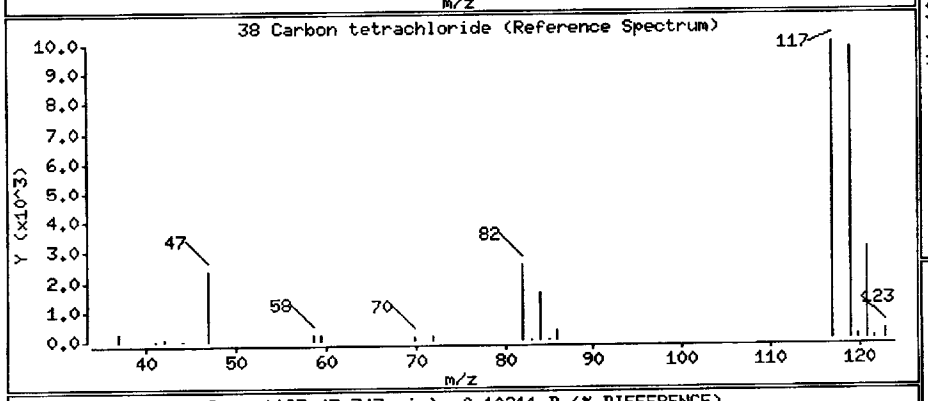
Column diameter: 0.18

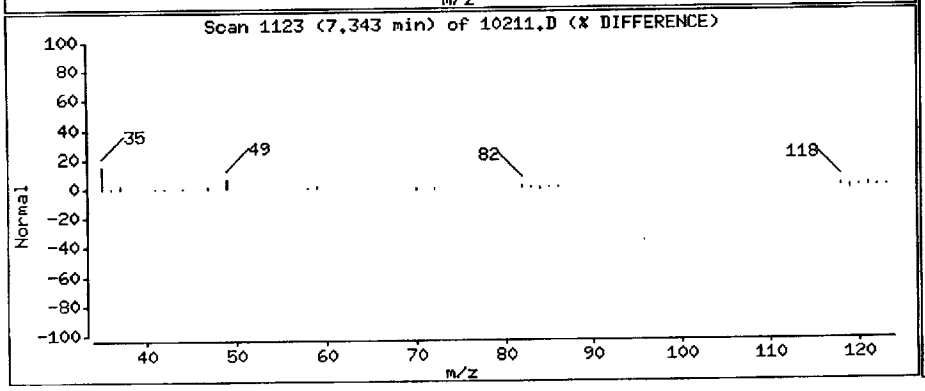
38 Carbon tetrachloride

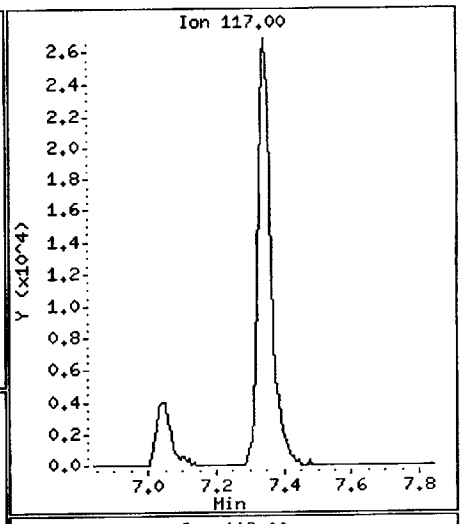
Concentration: 19.5 ug/l

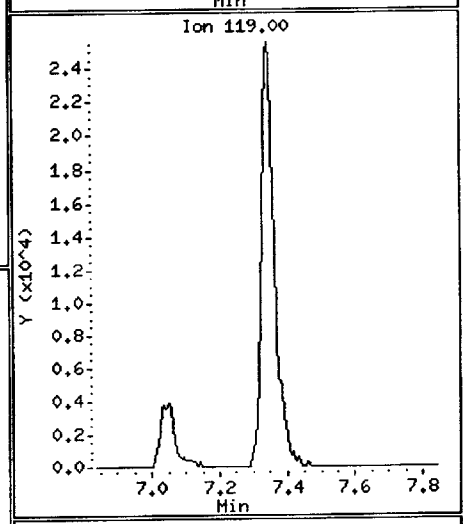


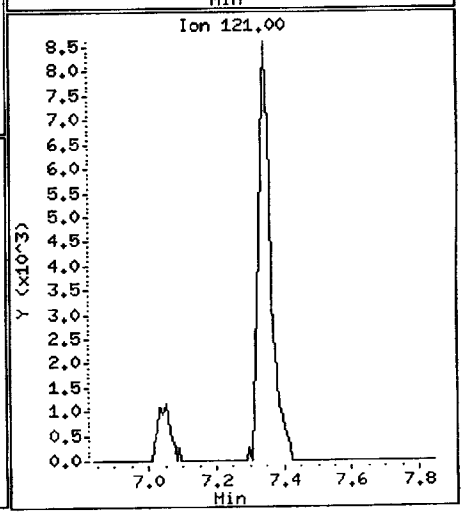












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10211.D

Date : 25-SEP-2002 08:01

Client ID: 11Q30228MSD

Instrument: vms03.i

Sample Info: 220910211;2209102;1;

Purge Volume: 5.0

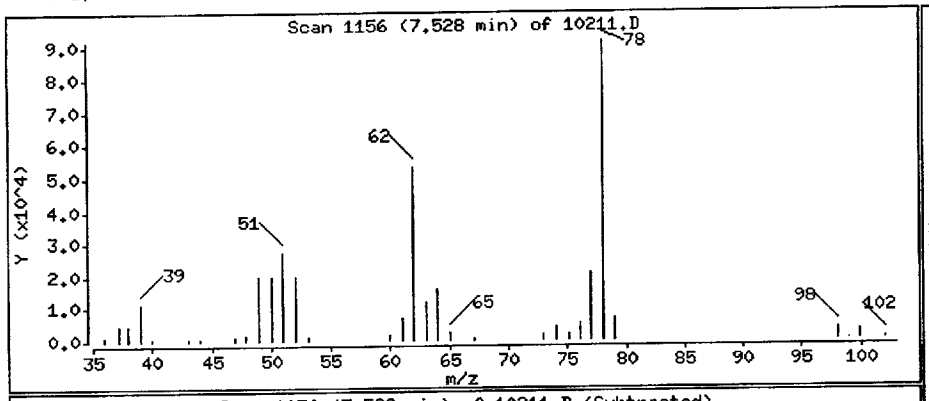
Operator:

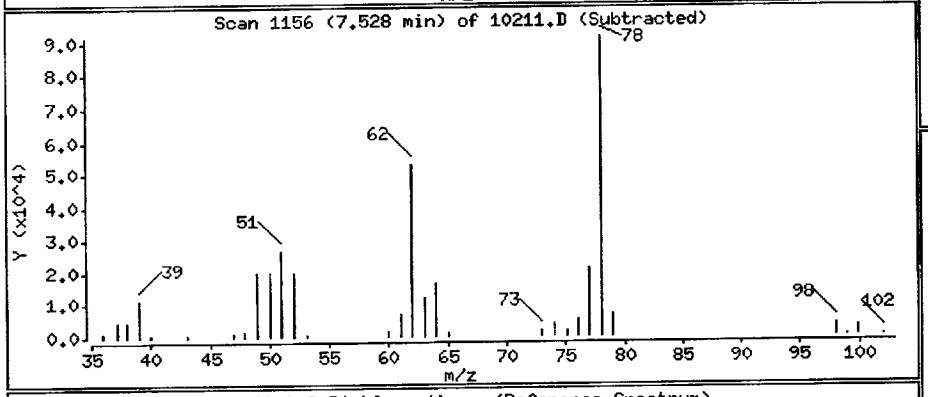
Column phase: DB-624

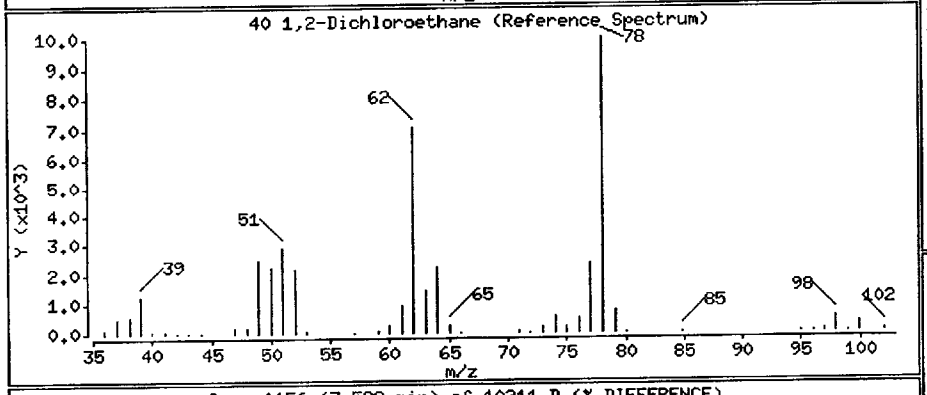
Column diameter: 0.18

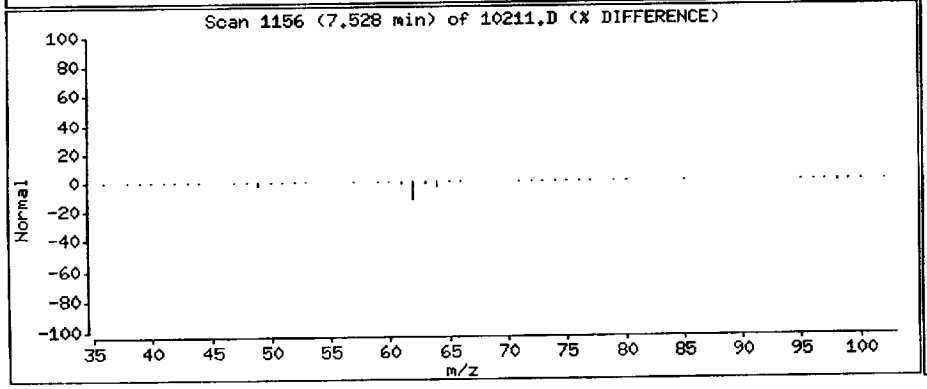
40 1,2-Dichloroethane

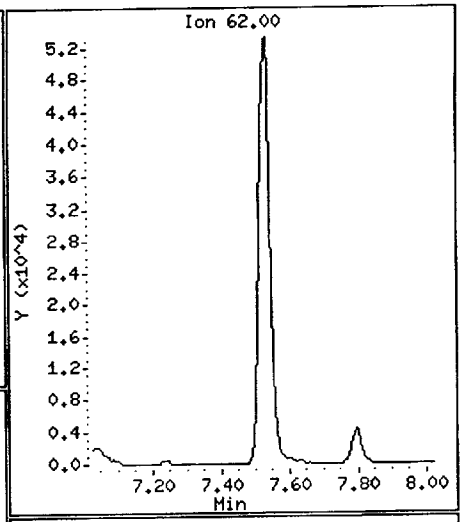
Concentration: 20.8 ug/l

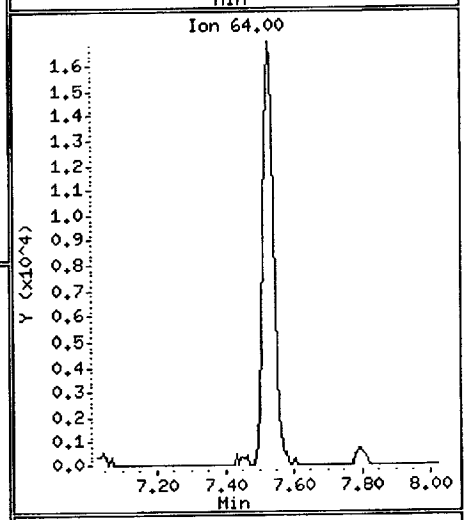


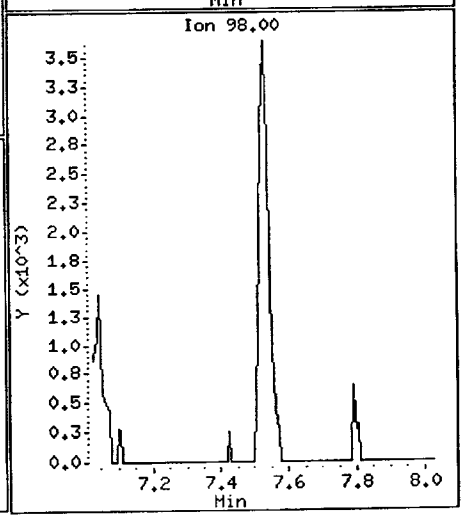












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10211.D

Date : 25-SEP-2002 08:01

Client ID: 11Q30228MSD

Instrument: vms03.i

Sample Info: 220910211;2209102;1;

Purge Volume: 5.0

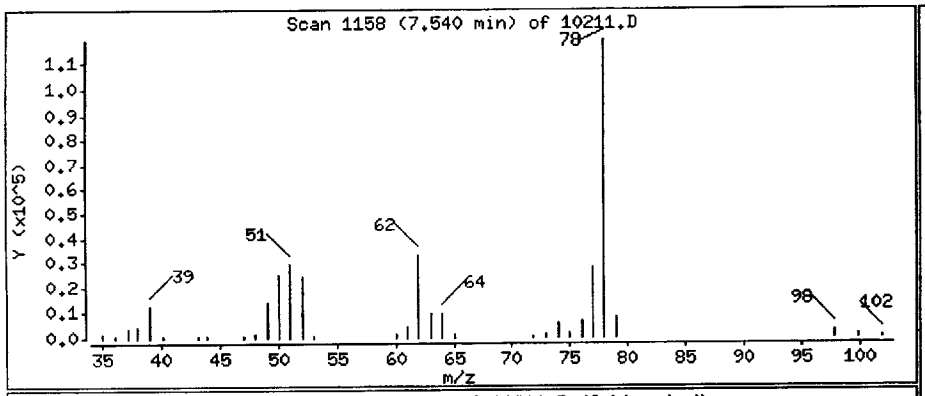
Operator:

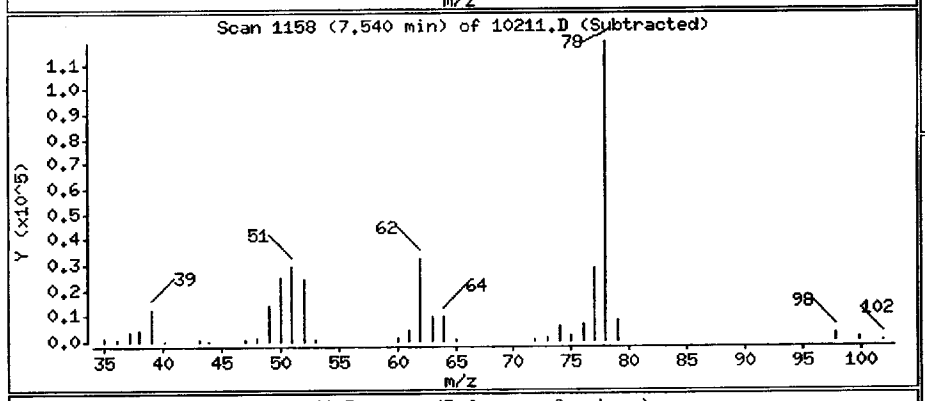
Column phase: DB-624

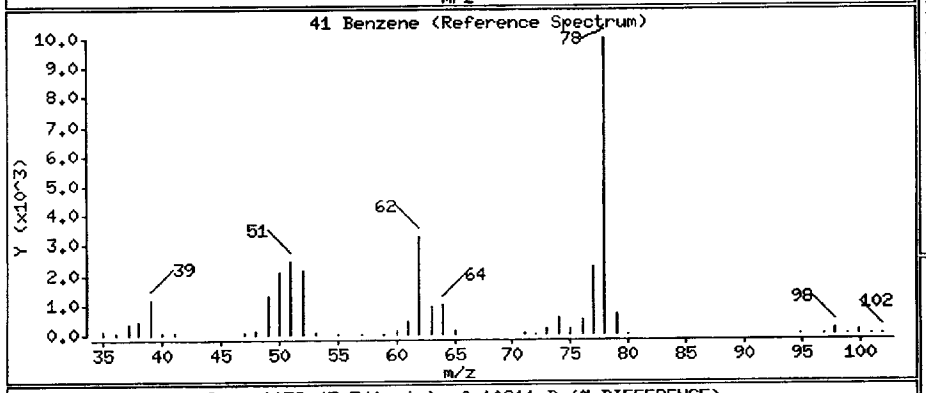
Column diameter: 0.18

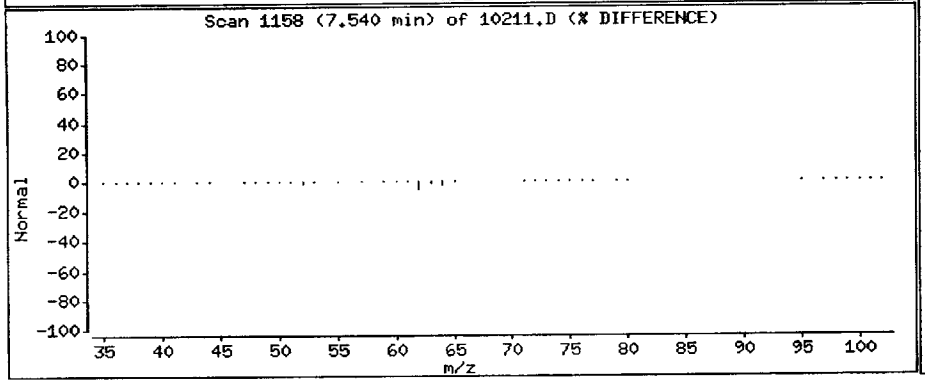
41 Benzene

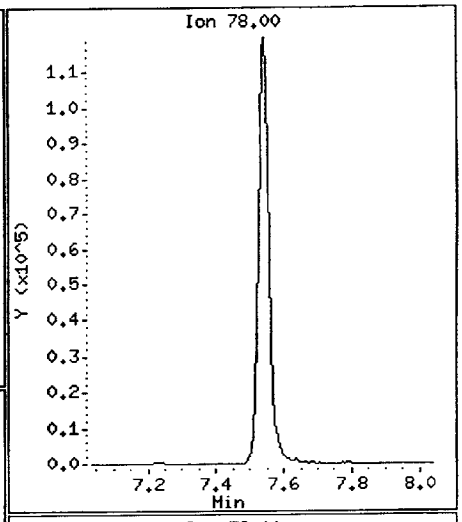
Concentration: 20.2 ug/l

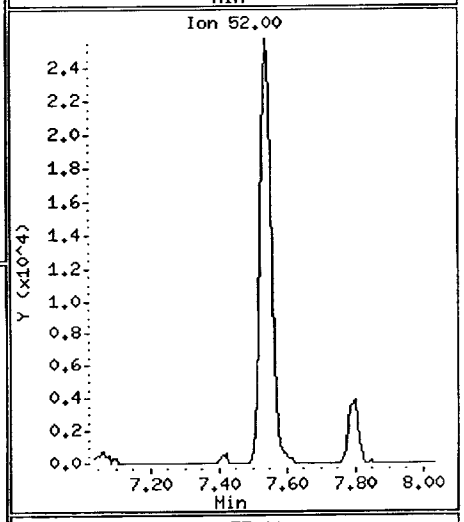


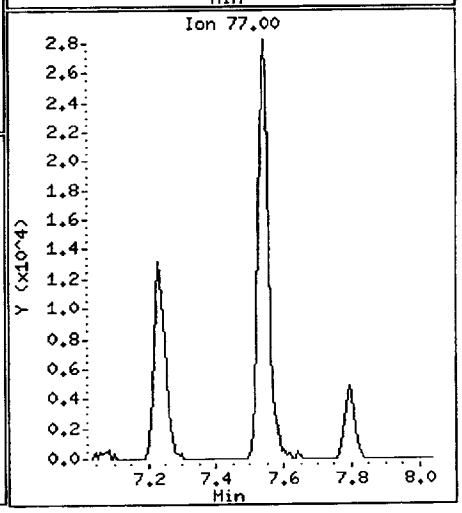












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10211.D

Date : 25-SEP-2002 08:01

Client ID: 11Q30228HSD

Instrument: vms03.i

Sample Info: 220910211;2209102;1;

Purge Volume: 5.0

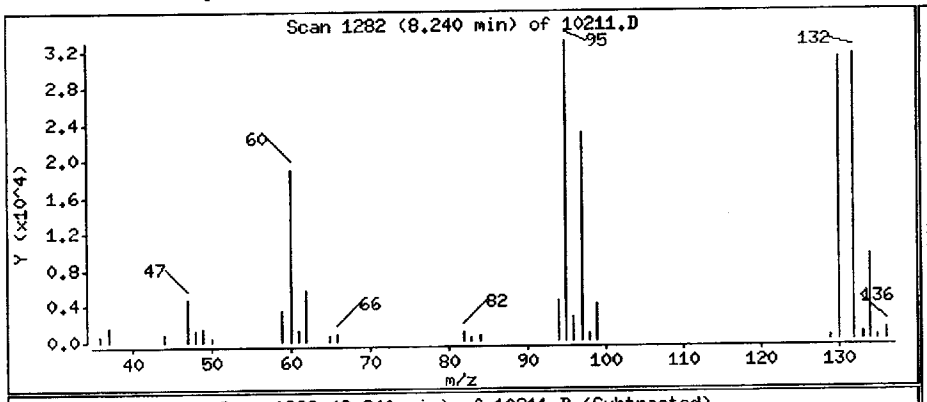
Operator:

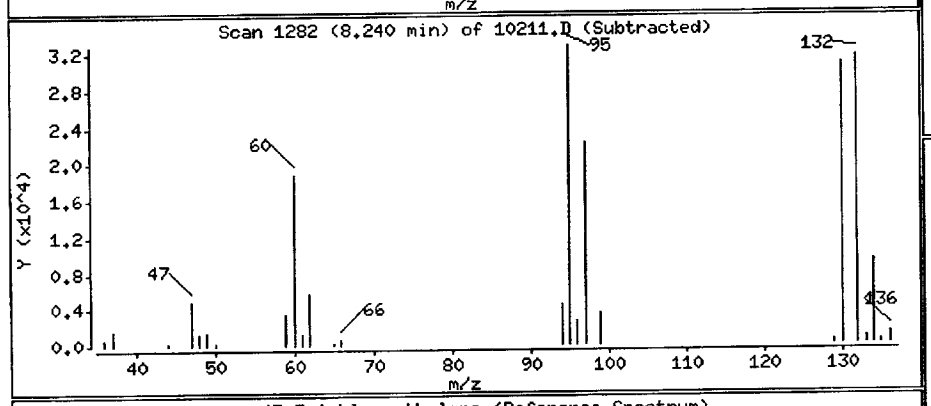
Column phase: DB-624

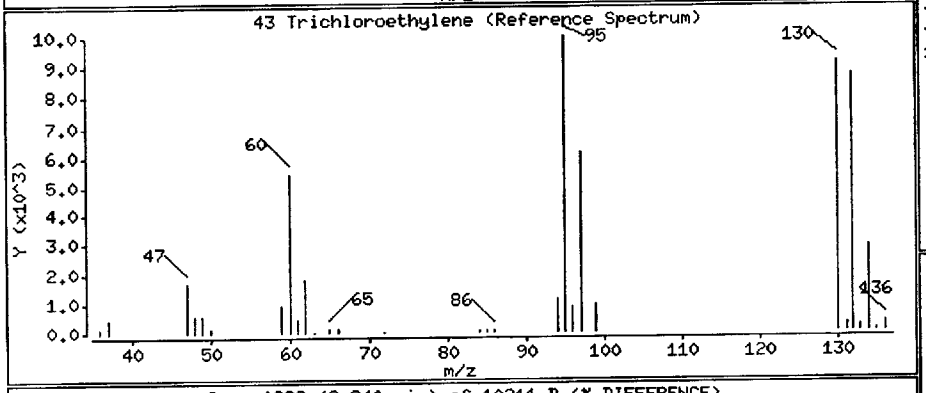
Column diameter: 0.18

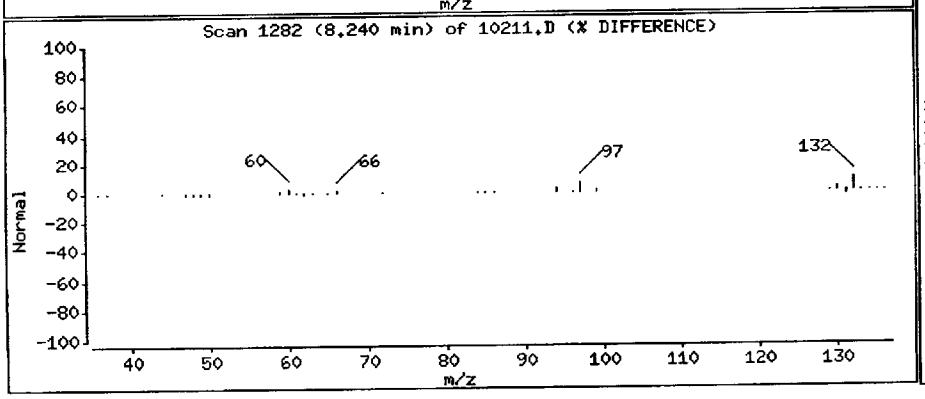
43 Trichloroethylene

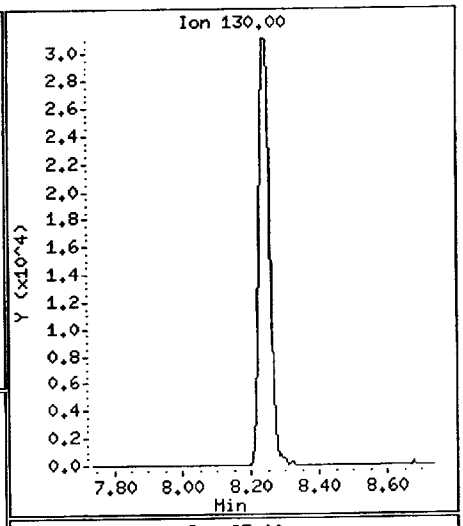
Concentration: 21.0 ug/l

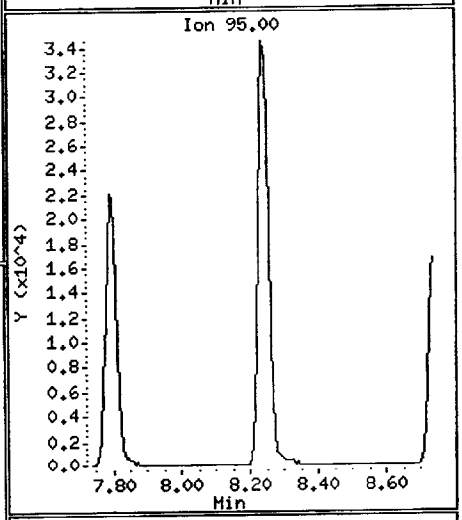


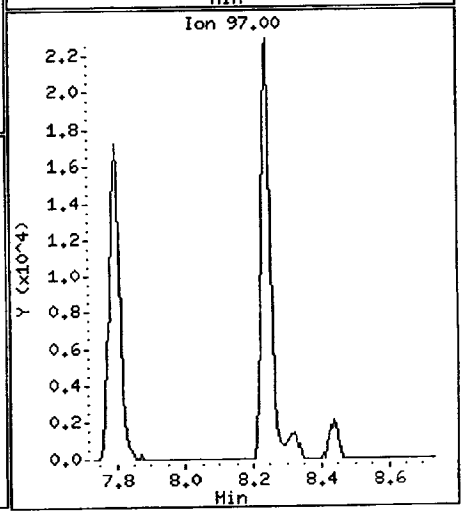












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10211.D

Date : 25-SEP-2002 08:01

Client ID: 11Q30228MSD

Instrument: vms03.i

Sample Info: 220910211;2209102;1;

Purge Volume: 5.0

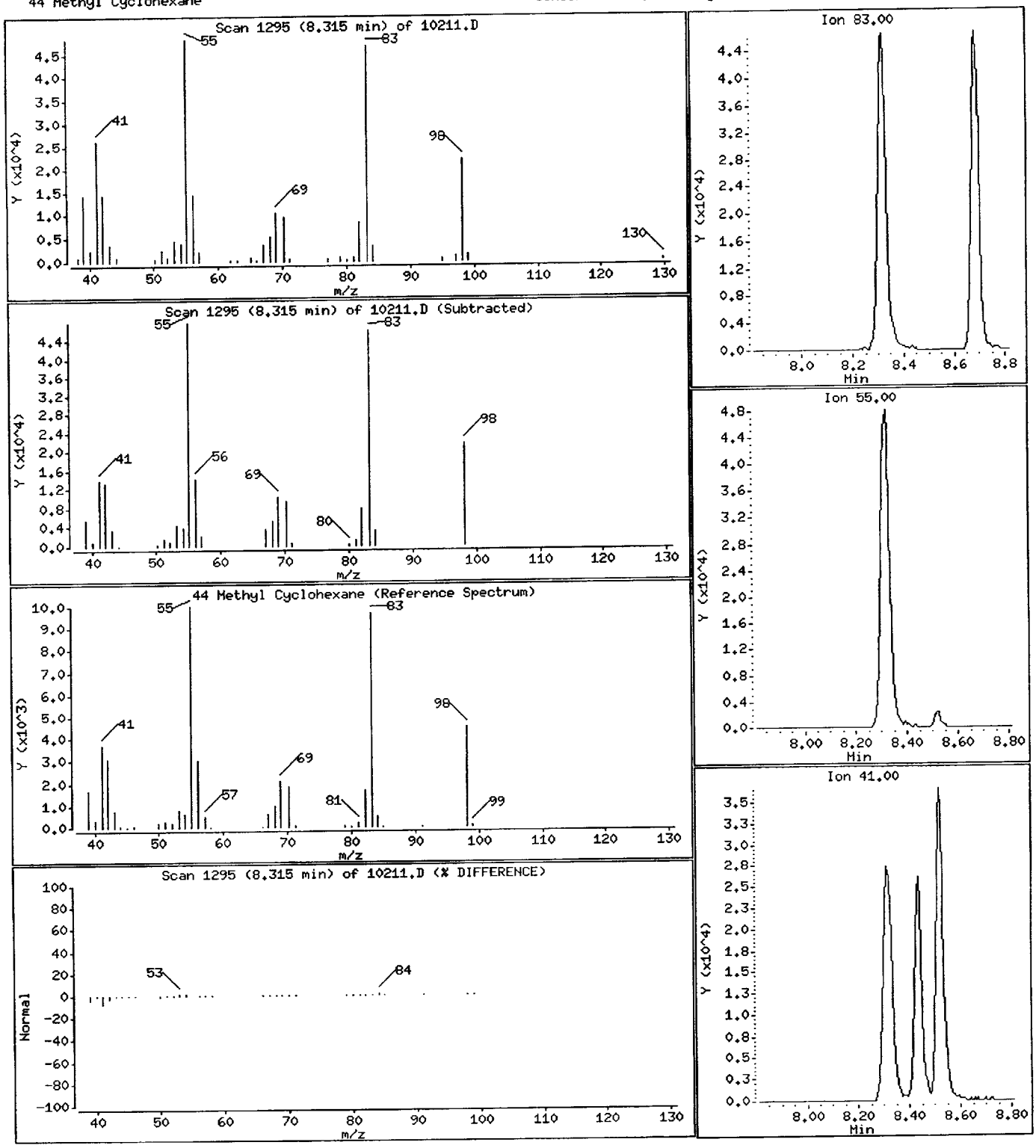
Operator:

Column phase: DB-624

Column diameter: 0.18

44 Methyl Cyclohexane

Concentration: 19.6 ug/l



Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10211.D

Date : 25-SEP-2002 08:01

Client ID: 11Q30228MSD

Instrument: vms03.i

Sample Info: 220910211;2209102;1;

Purge Volume: 5.0

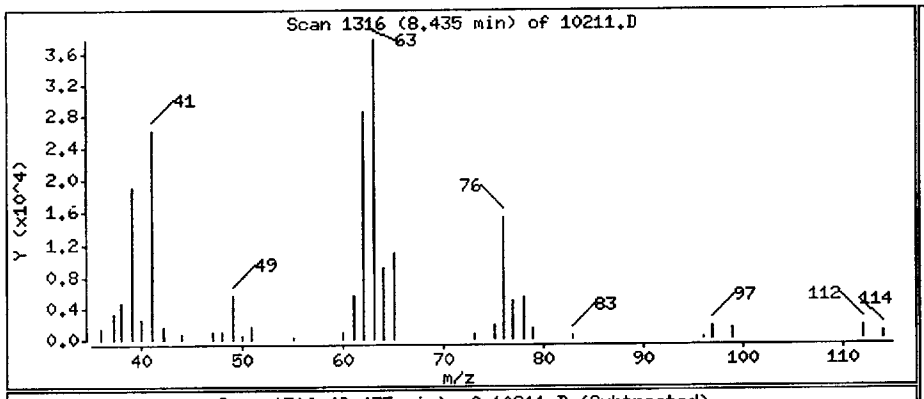
Operator:

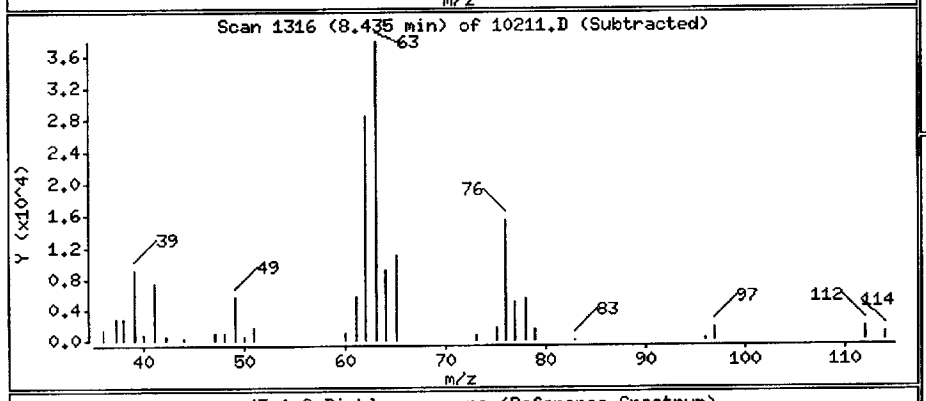
Column phase: DB-624

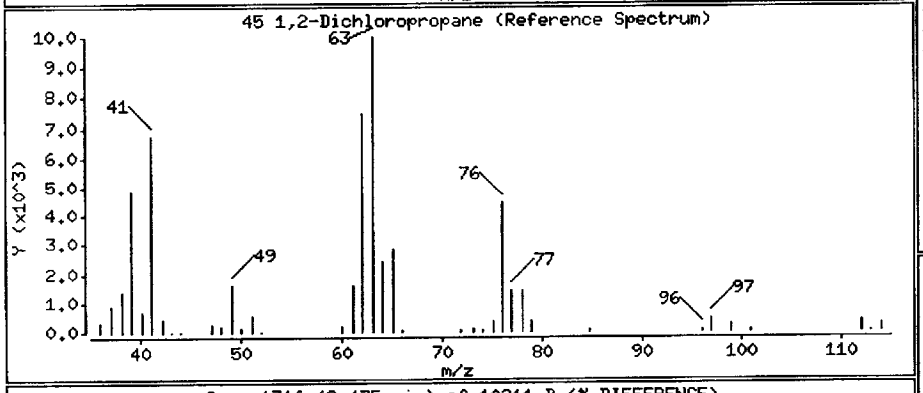
Column diameter: 0.18

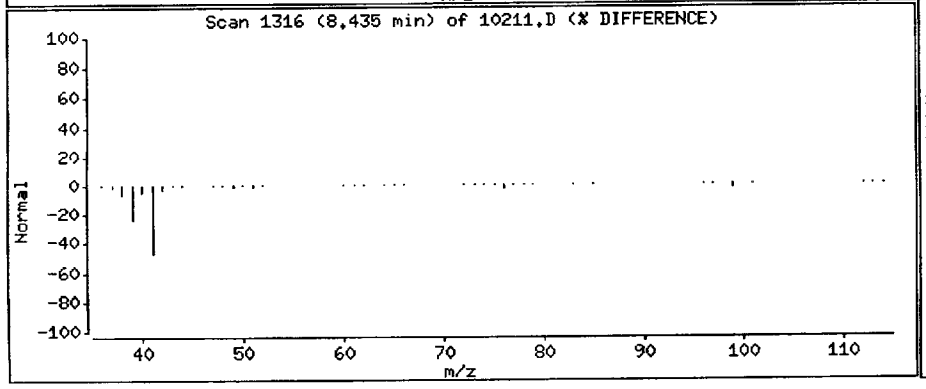
45 1,2-Dichloropropane

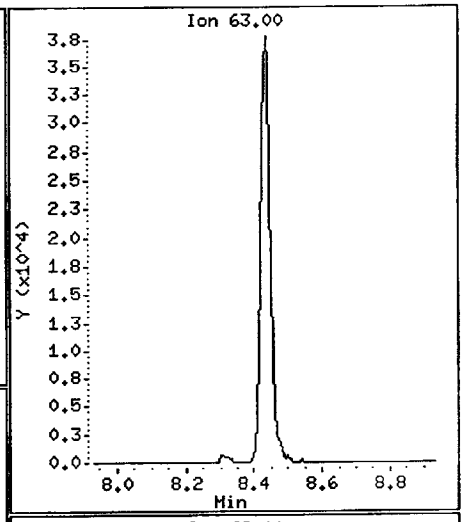
Concentration: 20.6 ug/l

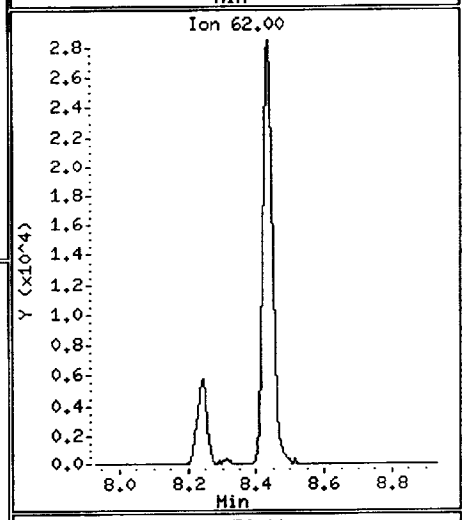


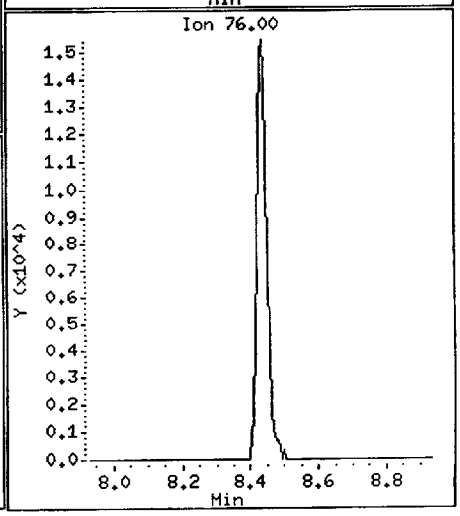












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10211.D

Date : 25-SEP-2002 08:01

Client ID: 11Q30228MSD

Instrument: vms03.i

Sample Info: 220910211;2209102;1;

Purge Volume: 5.0

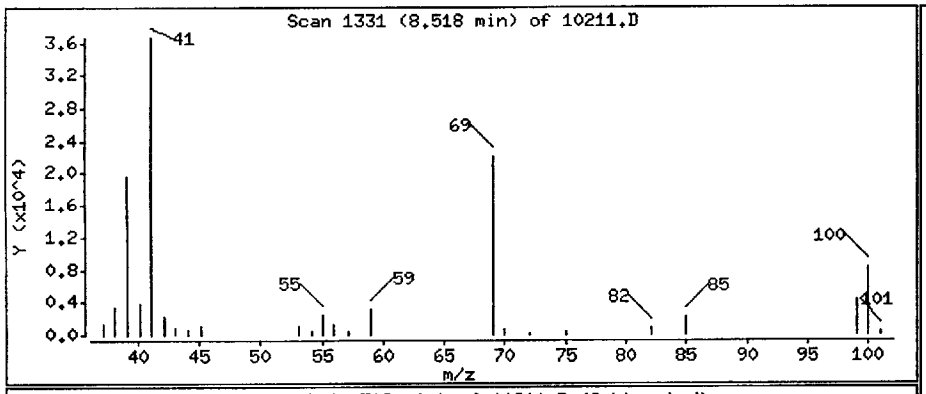
Operator:

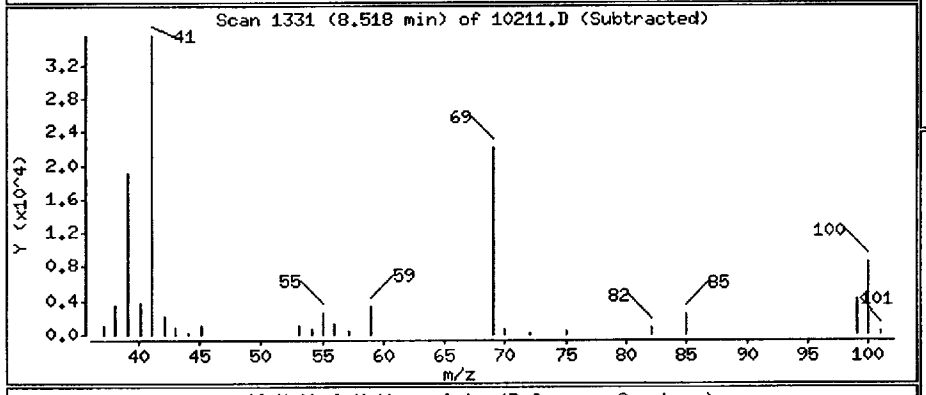
Column phase: DB-624

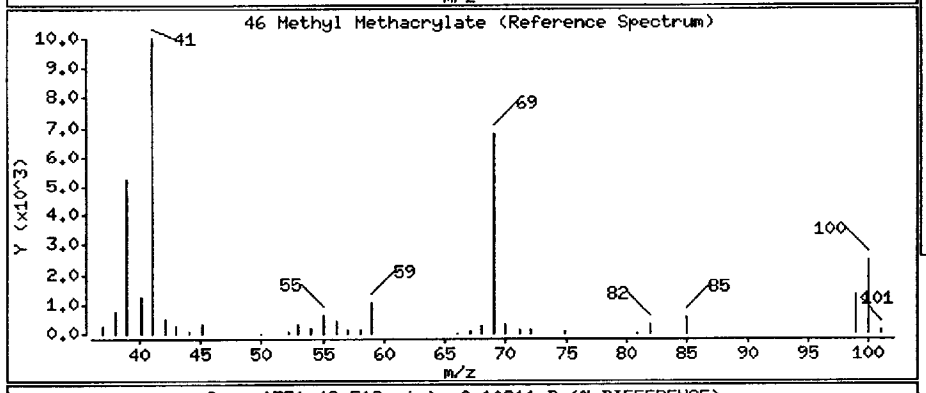
Column diameter: 0.18

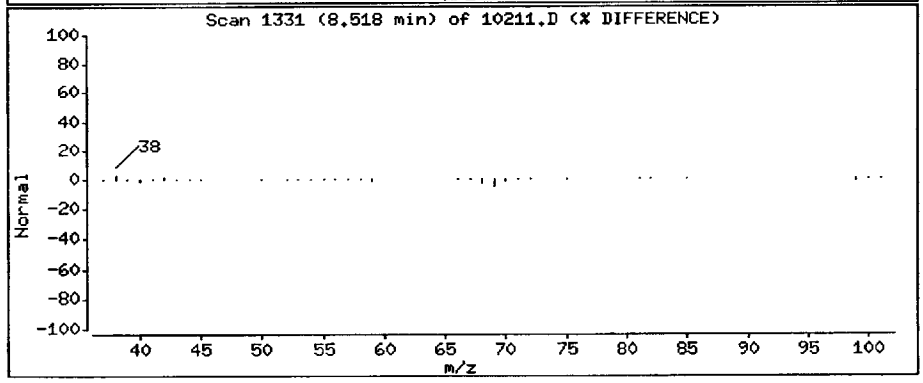
46 Methyl Methacrylate

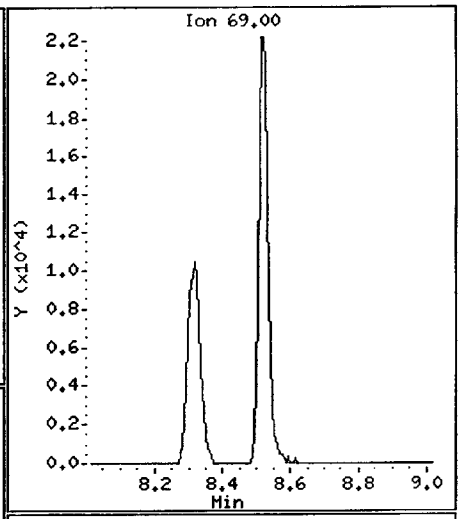
Concentration: 20.0 ug/l

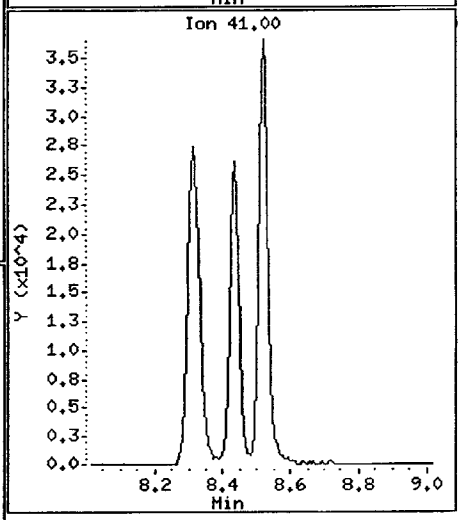












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10211.D

Date : 25-SEP-2002 08:01

Client ID: 11Q30228MSD

Instrument: vms03.i

Sample Info: 220910211;2209102;1;

Purge Volume: 5.0

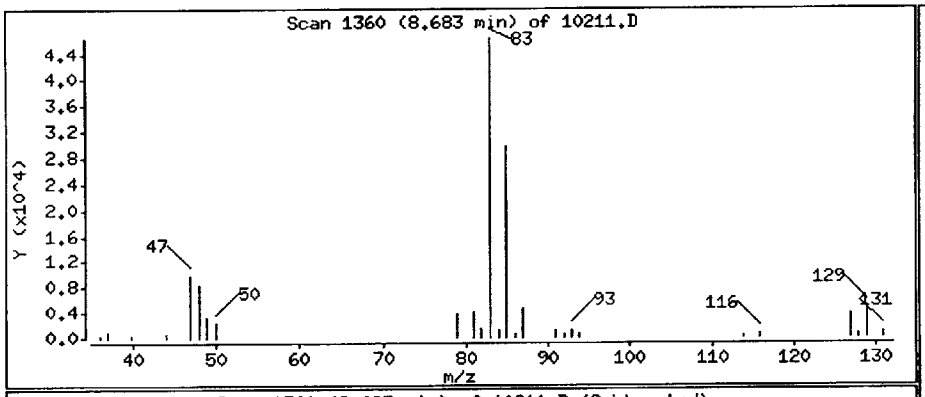
Operator:

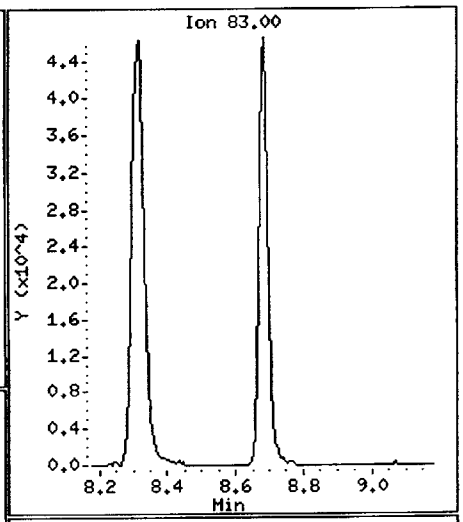
Column phase: DB-624

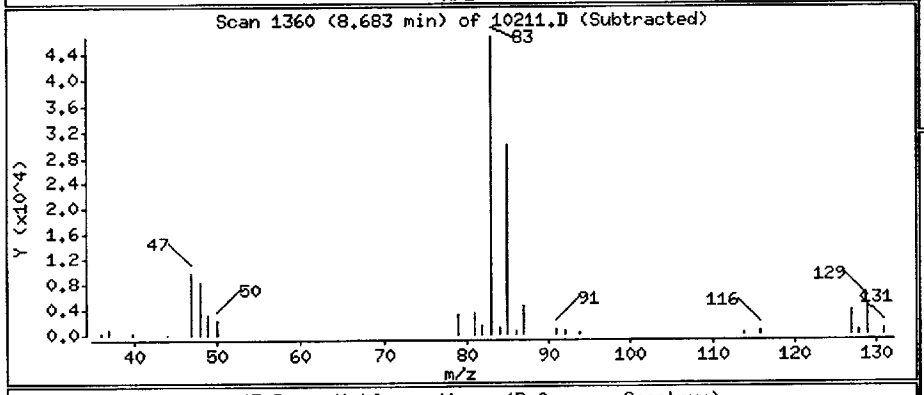
Column diameter: 0.18

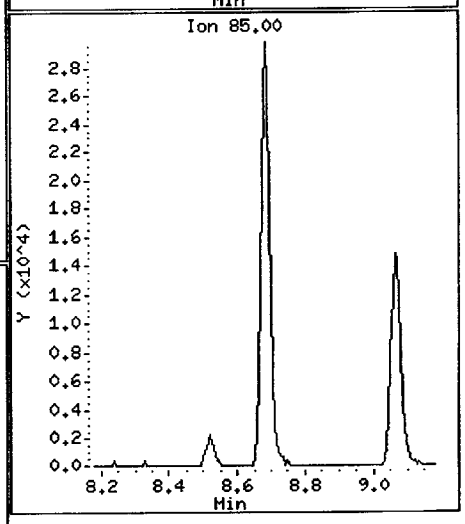
47 Bromodichloromethane

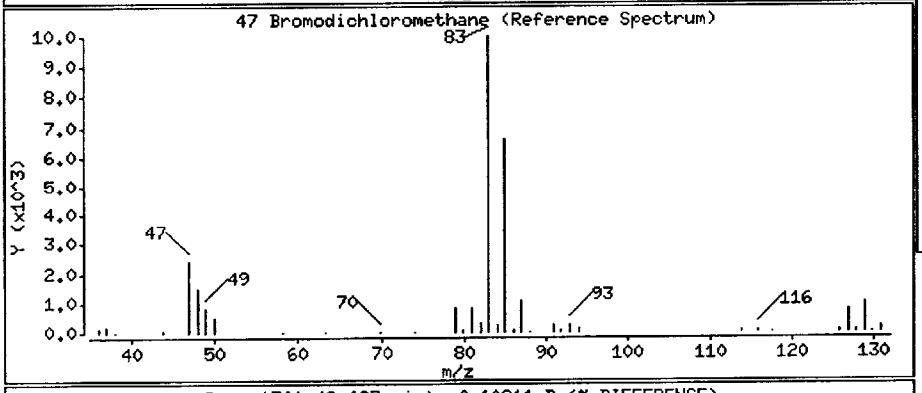
Concentration: 20.0 ug/l

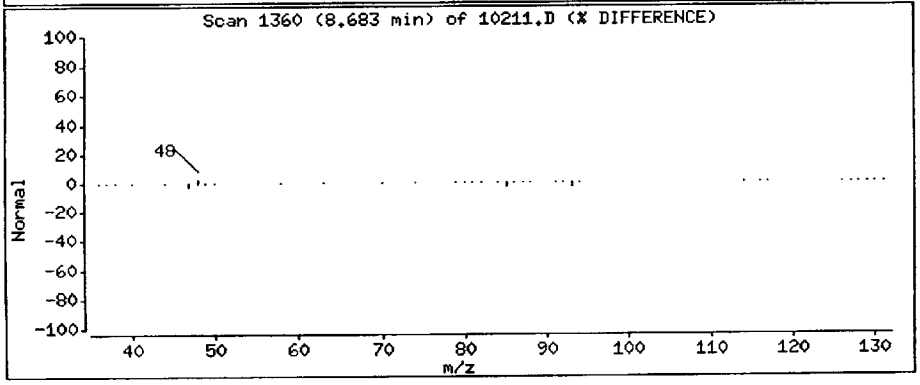












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Date : 25-SEP-2002 08:01

Client ID: 11Q30228MSD

Instrument: vms03.i

Sample Info: 220910211;2209102;1;

Purge Volume: 5.0

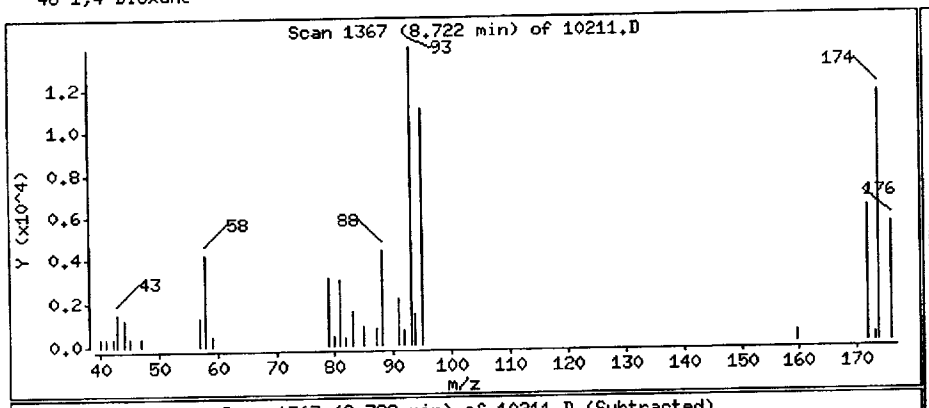
Operator:

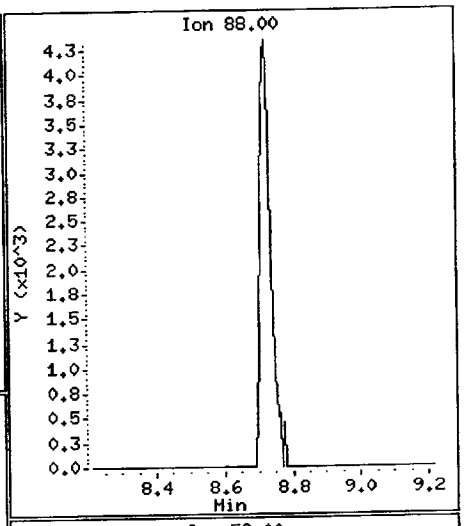
Column phase: DB-624

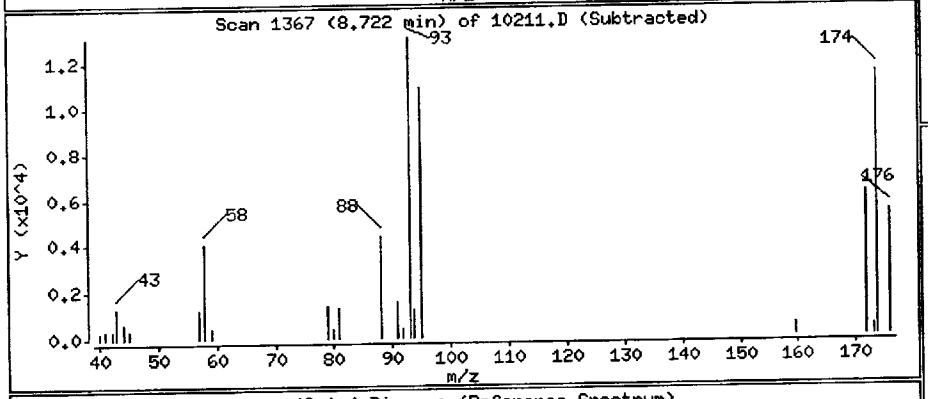
Column diameter: 0.18

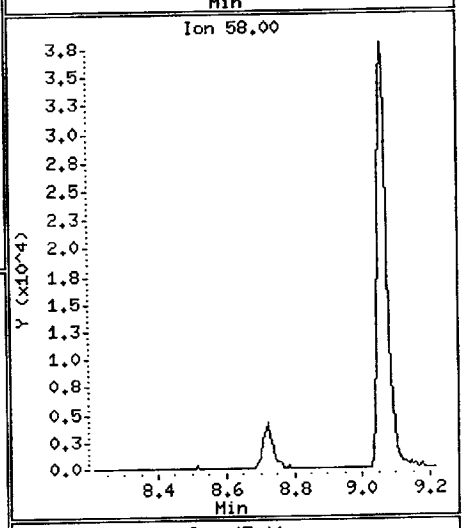
48 1,4 Dioxane

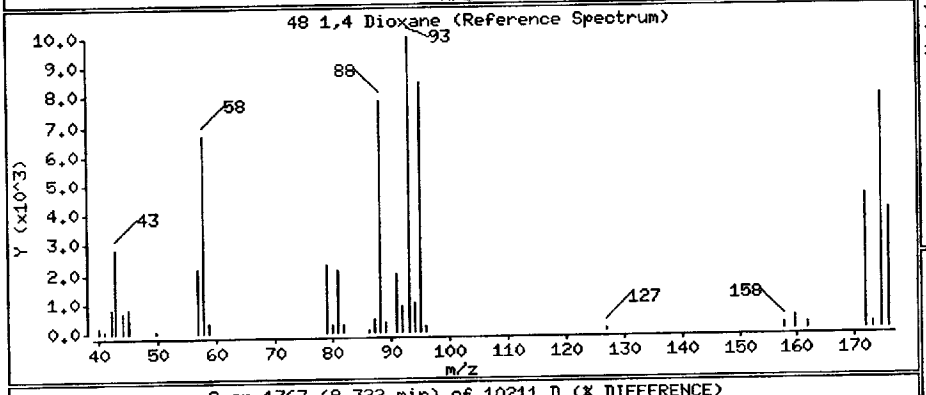
Concentration: 362 ug/l

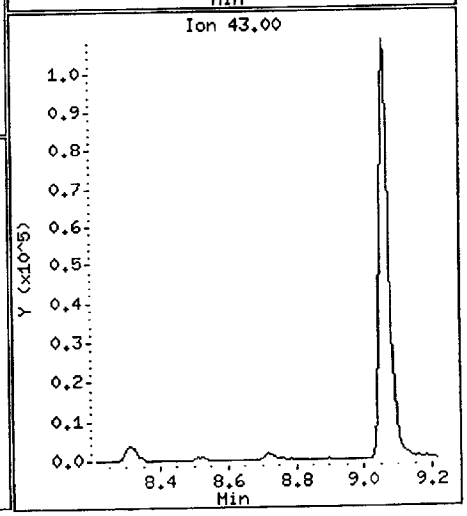


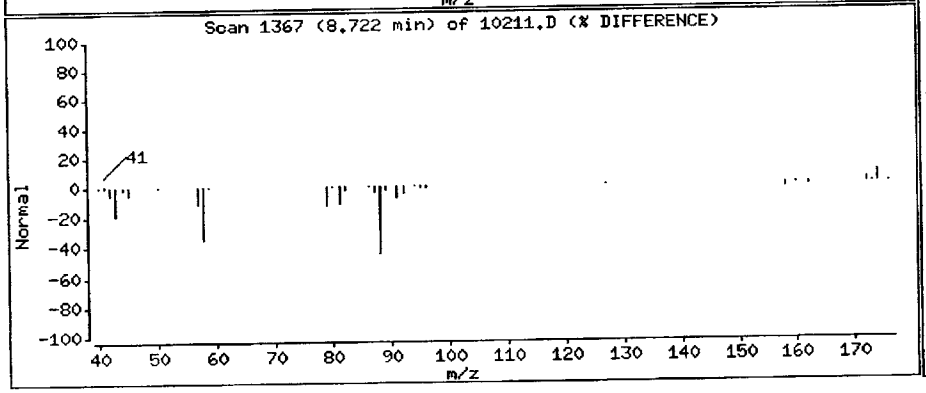












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10211.D

Date : 25-SEP-2002 08:01

Client ID: 11Q30228MSD

Instrument: vms03.i

Sample Info: 220910211;2209102;1;

Purge Volume: 5.0

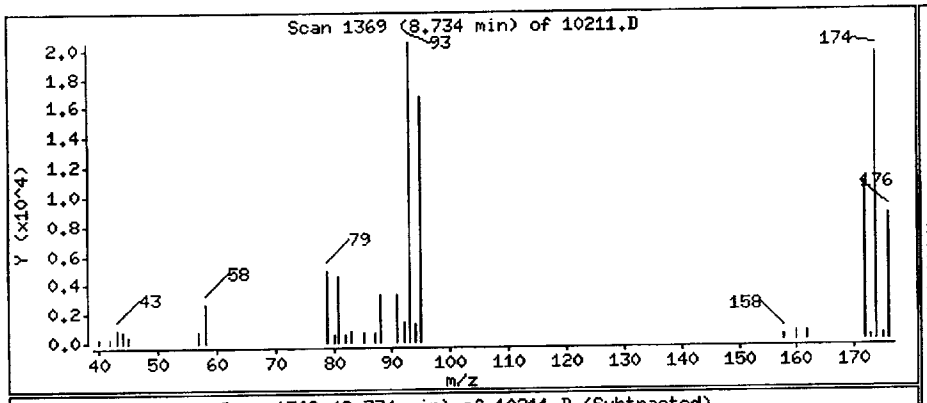
Operator:

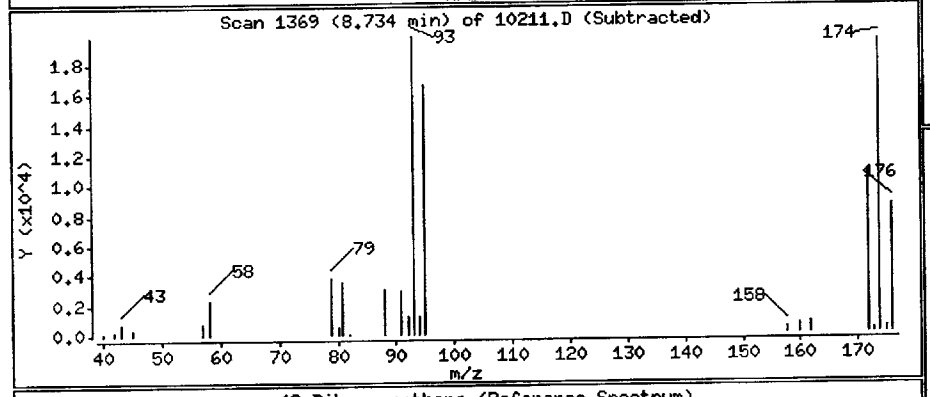
Column phase: DB-624

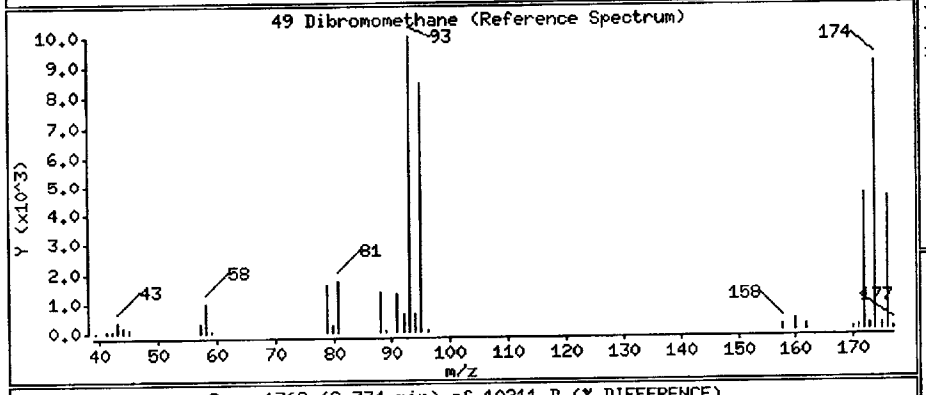
Column diameter: 0.18

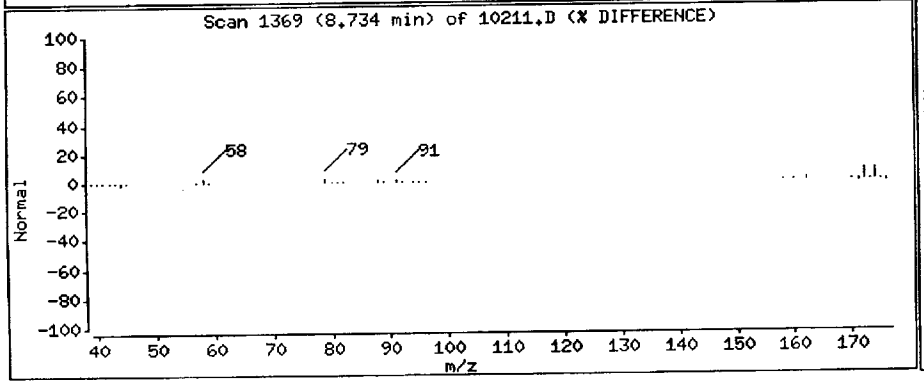
49 Dibromomethane

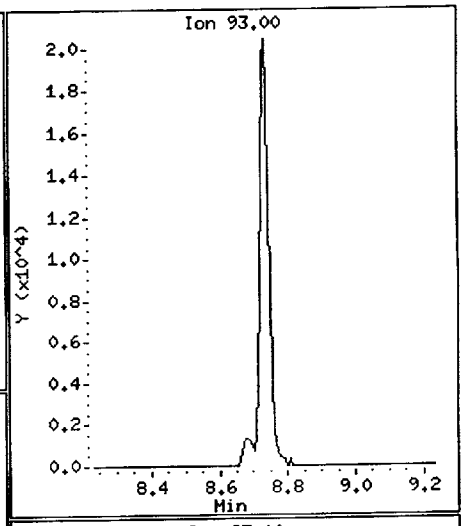
Concentration: 20.4 ug/l

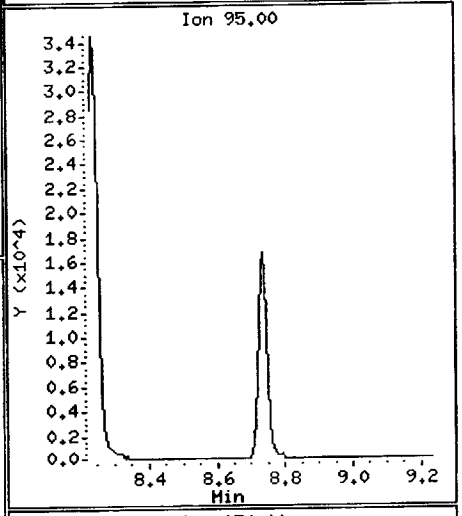


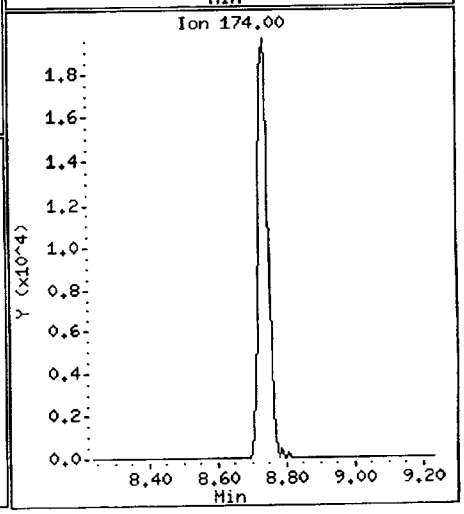












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Date : 25-SEP-2002 08:01

Client ID: 11Q30228MSD

Instrument: vms03.i

Sample Info: 220910211;2209102;1;

Purge Volume: 5.0

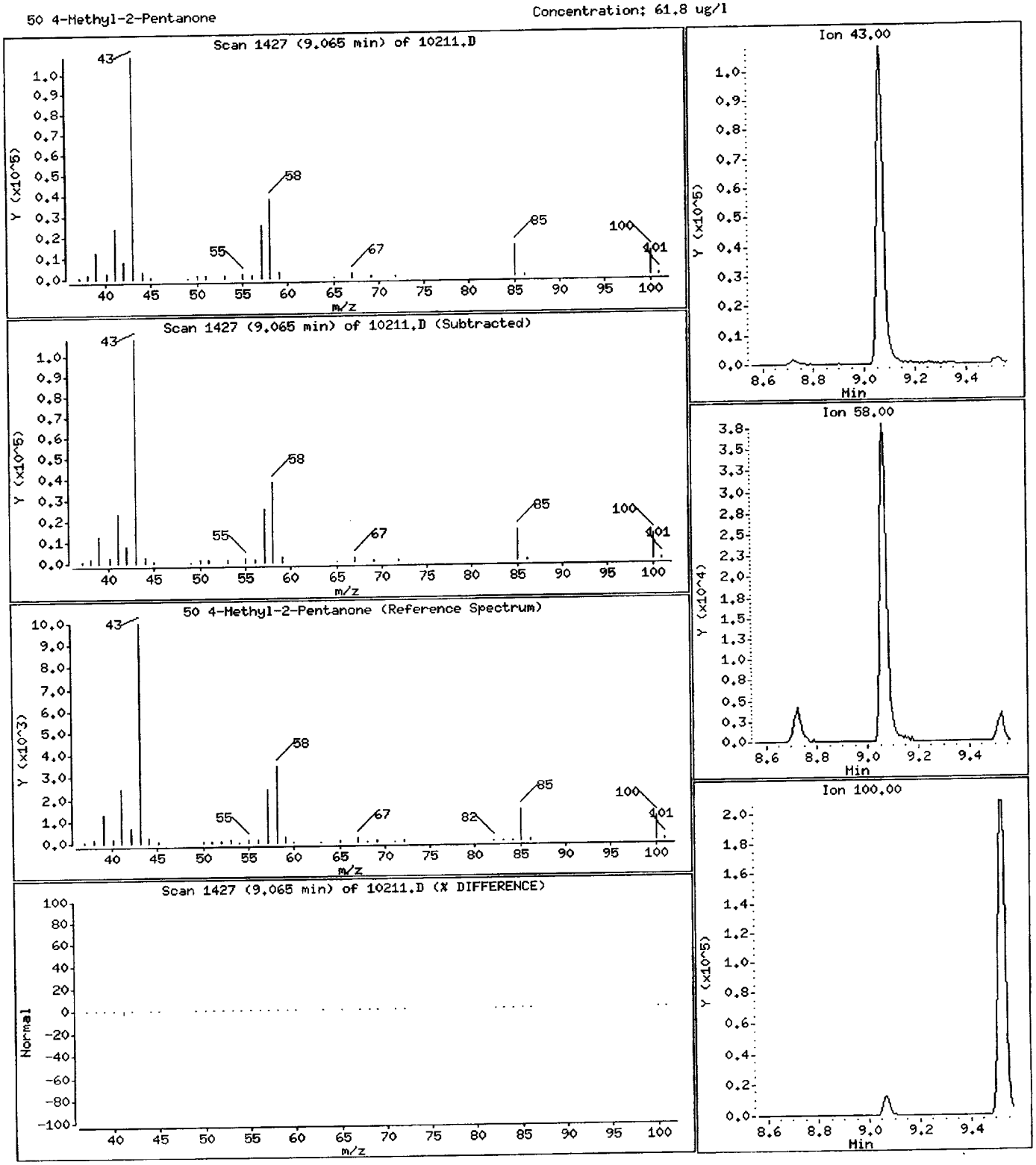
Operator:

Column phase: DB-624

Column diameter: 0.18

50 4-Methyl-2-Pentanone

Concentration: 61.8 ug/l



Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10211.D

Date : 25-SEP-2002 08:01

Client ID: 11Q30228MSD

Instrument: vms03.i

Sample Info: 220910211;2209102;1;

Operator:

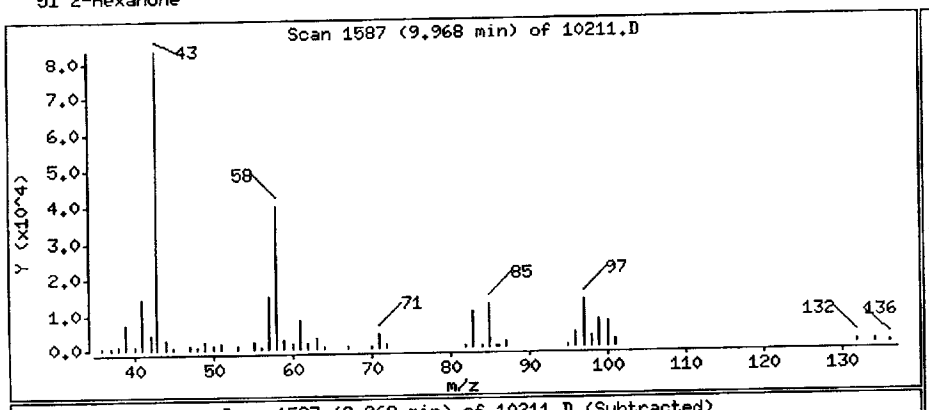
Purge Volume: 5.0

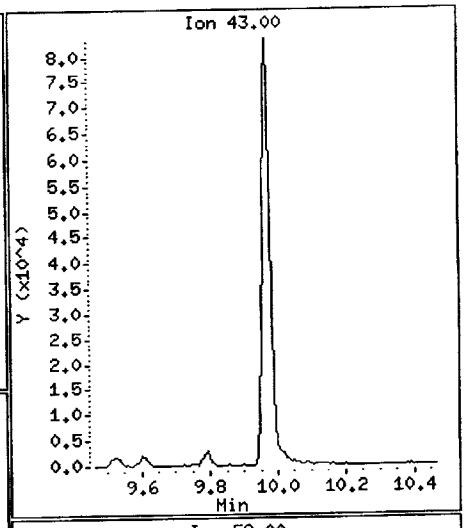
Column diameter: 0.18

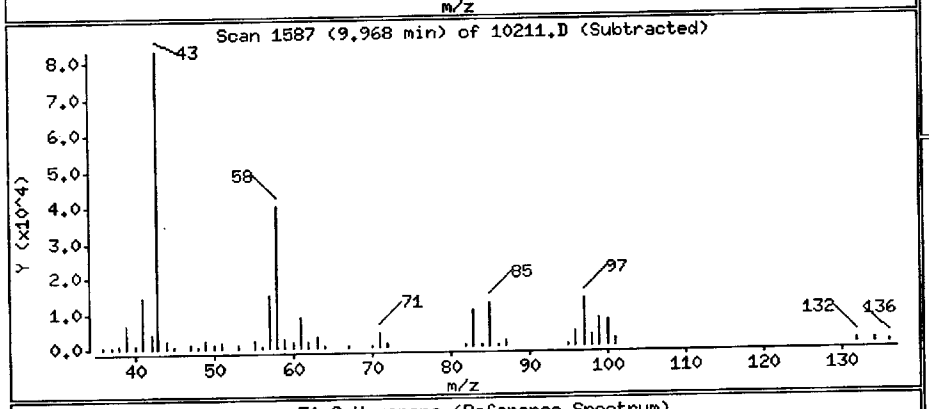
Column phase: DB-624

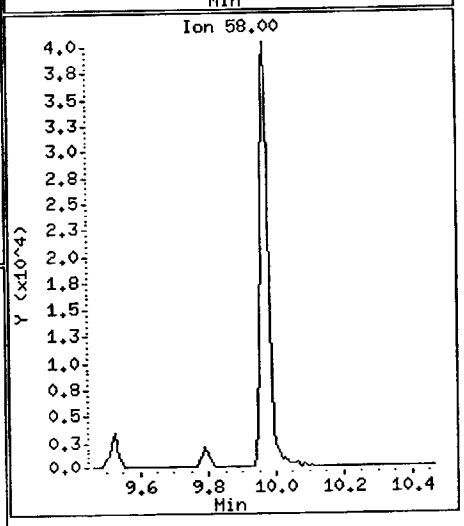
Concentration: 62.2 ug/l

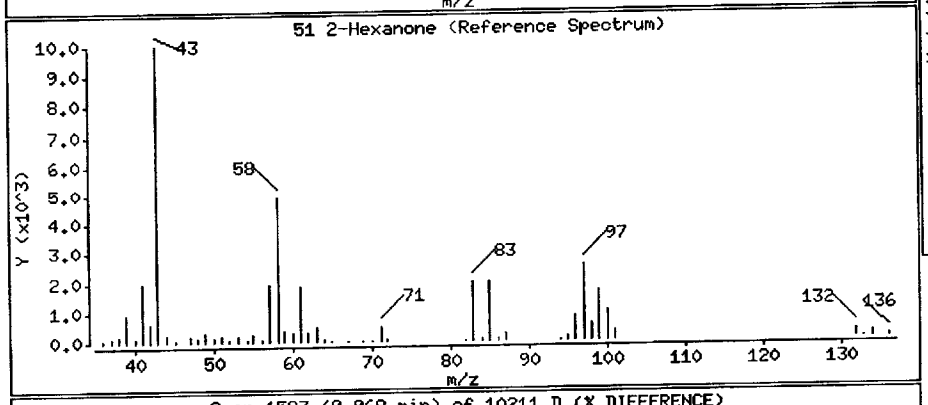
51 2-Hexanone

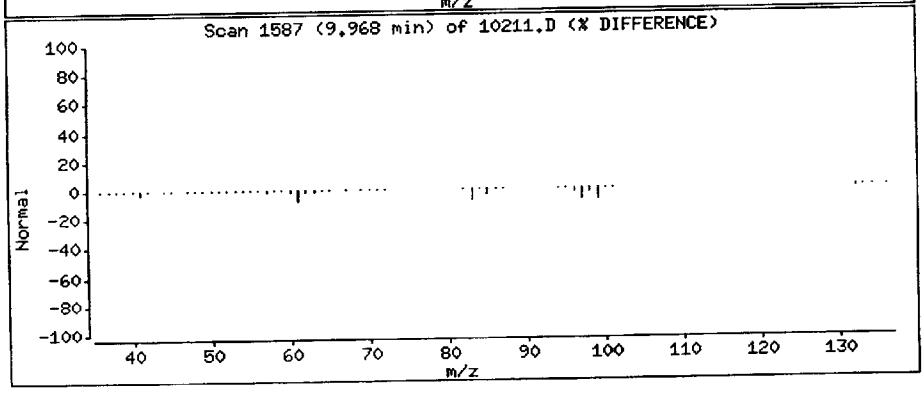












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Date : 25-SEP-2002 08:01

Client ID: 11Q30228MSD

Instrument: vms03.i

Sample Info: 220910211;2209102;1;

Purge Volume: 5.0

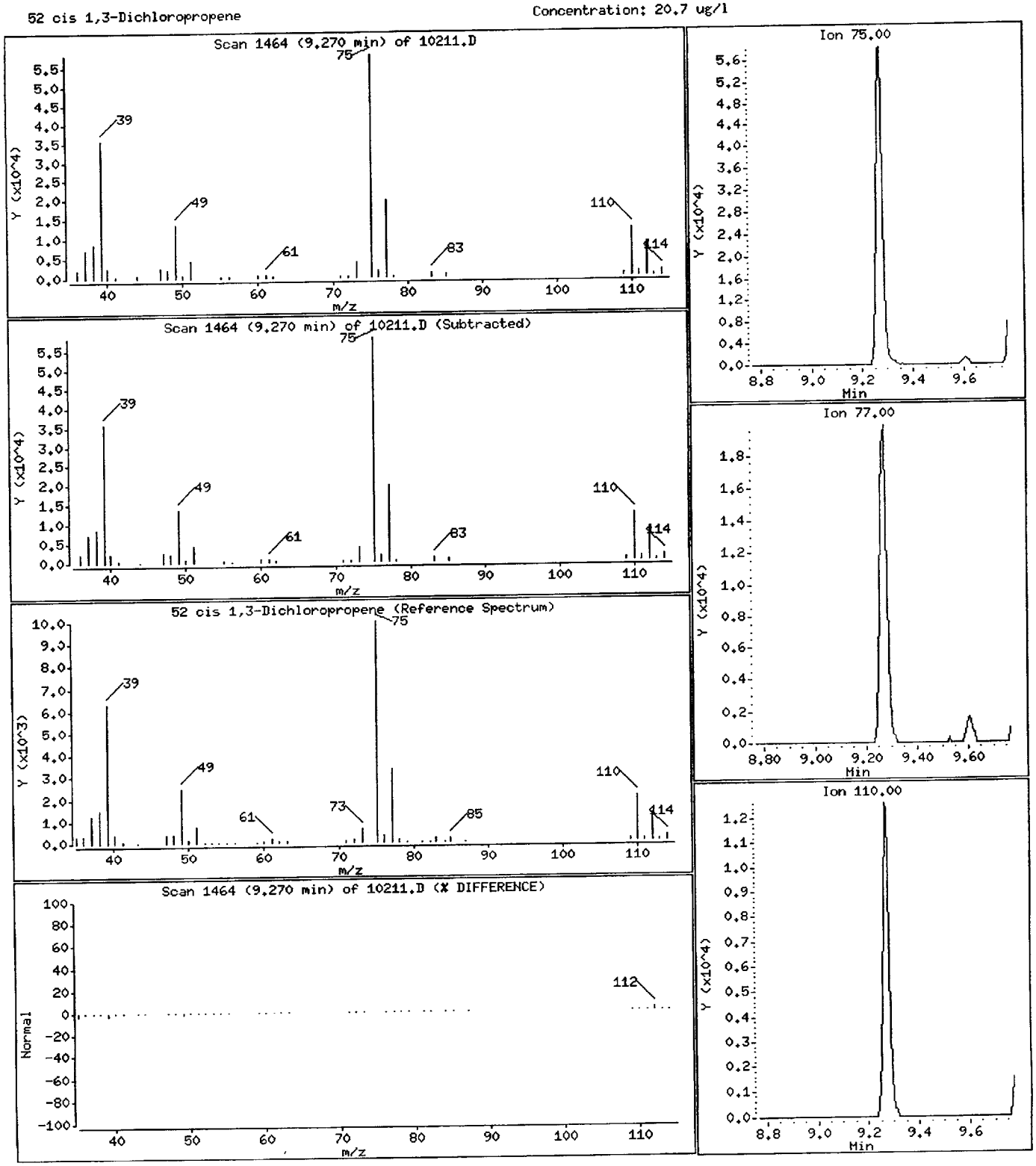
Operator:

Column phase: DB-624

Column diameter: 0.18

52 cis 1,3-Dichloropropene

Concentration: 20.7 ug/l



Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10211.D

Date : 25-SEP-2002 08:01

Client ID: 11Q30228MSD

Instrument: vms03.i

Sample Info: 220910211;2209102;1;

Purge Volume: 5.0

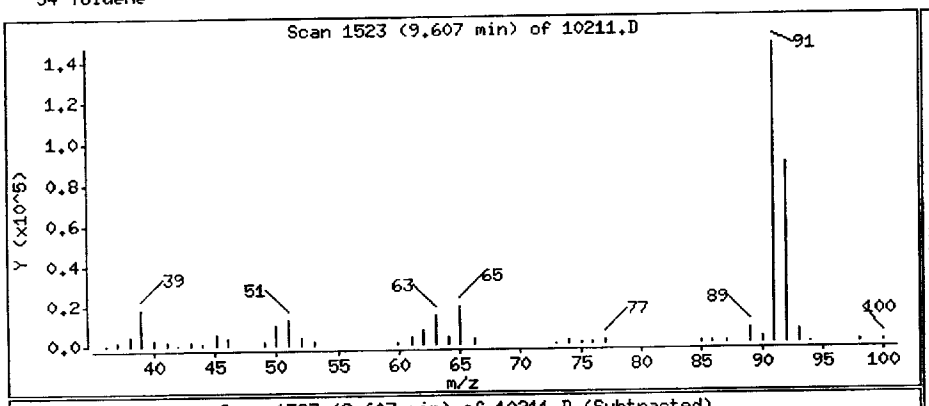
Operator:

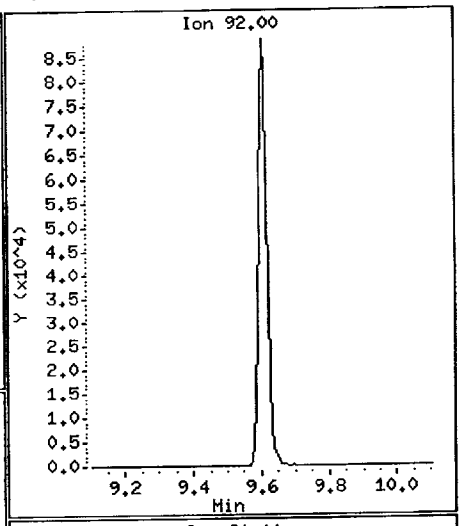
Column phase: DB-624

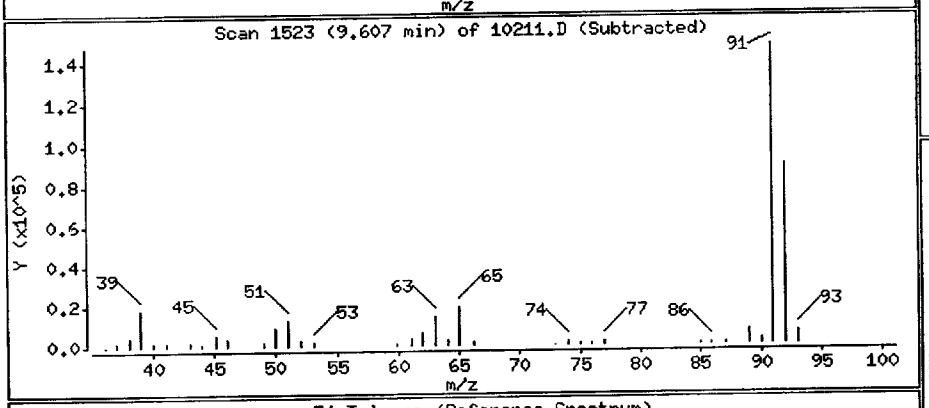
Column diameter: 0.18

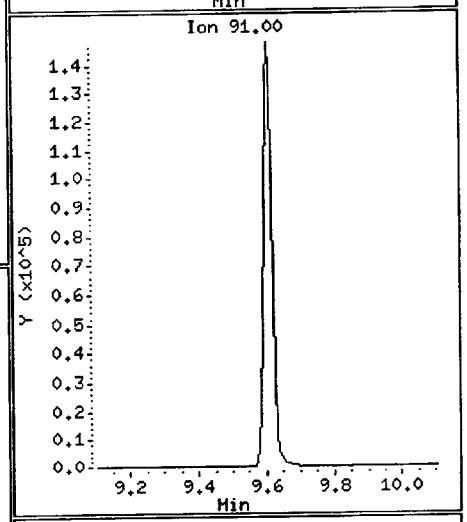
54 Toluene

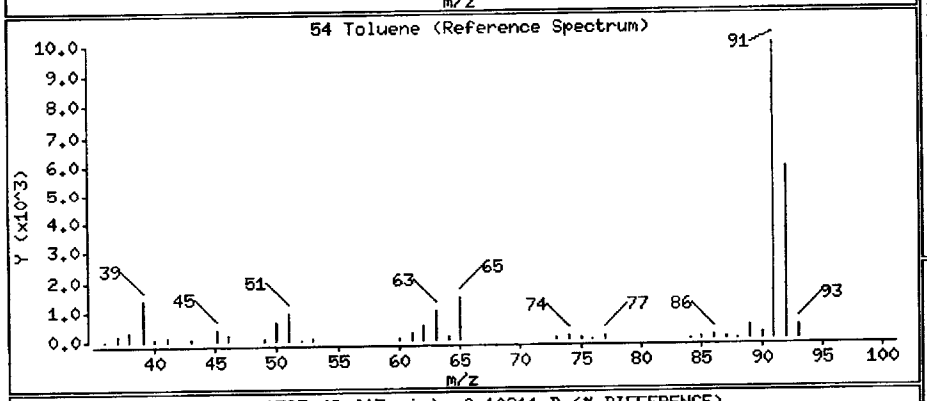
Concentration: 20.7 ug/l

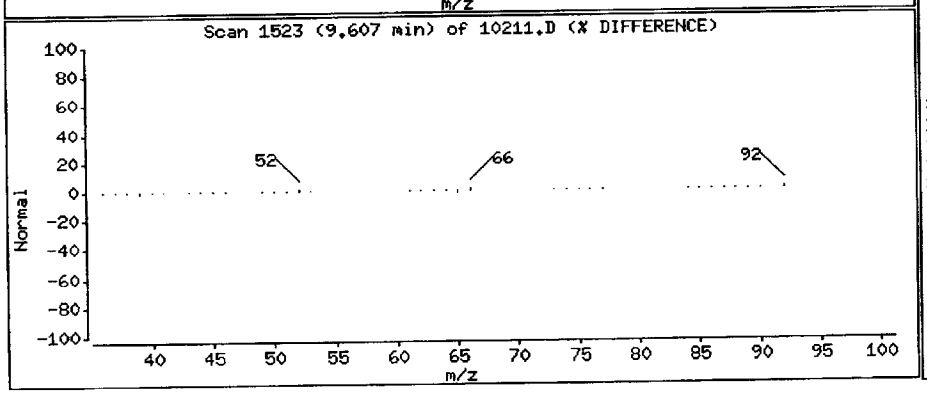


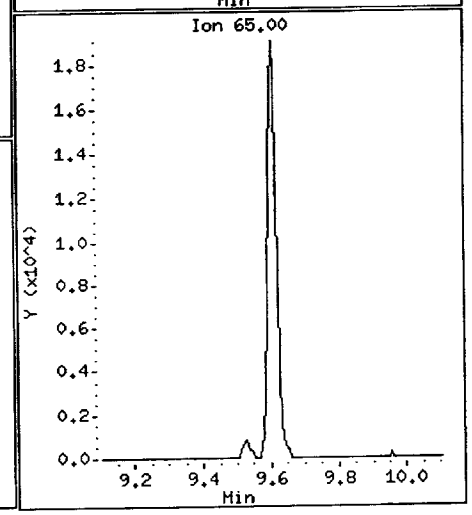












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Date : 25-SEP-2002 08:01

Client ID: 11Q30228MSD

Instrument: vms03.i

Sample Info: 220910211;2209102;1;

Purge Volume: 5.0

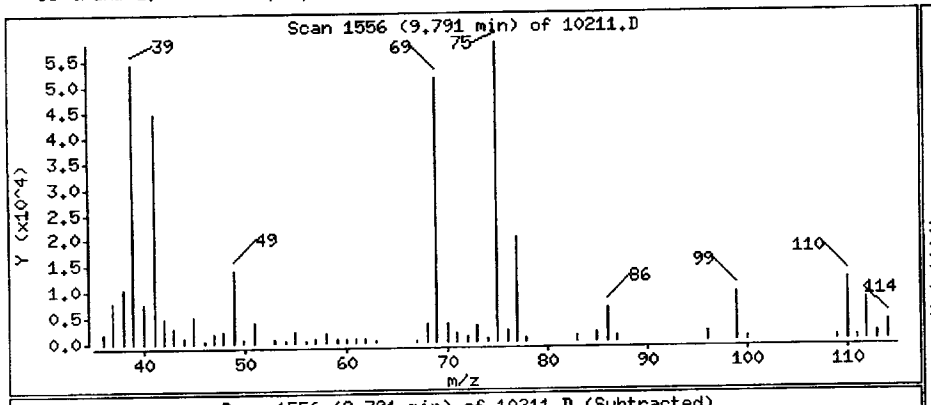
Operator:

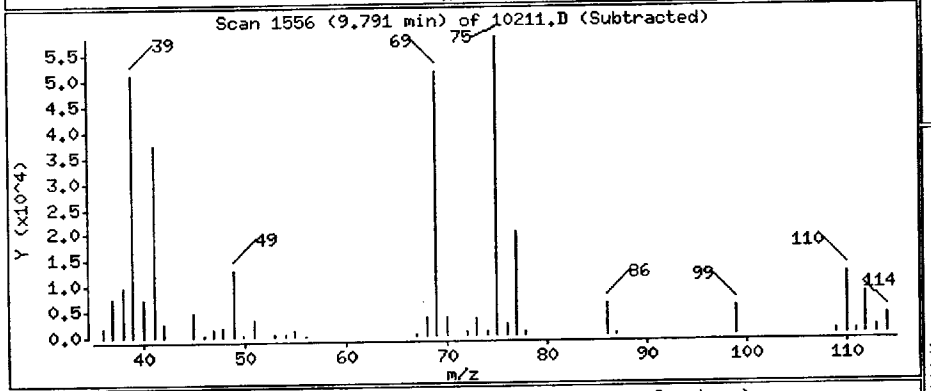
Column phase: DB-624

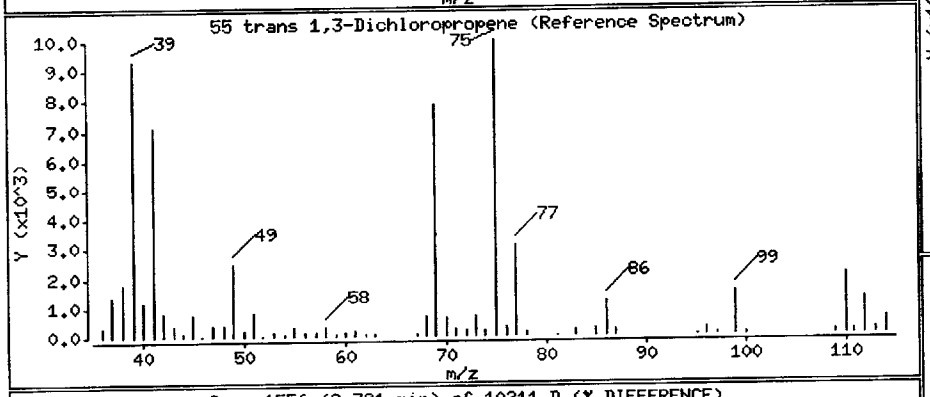
Column diameter: 0.18

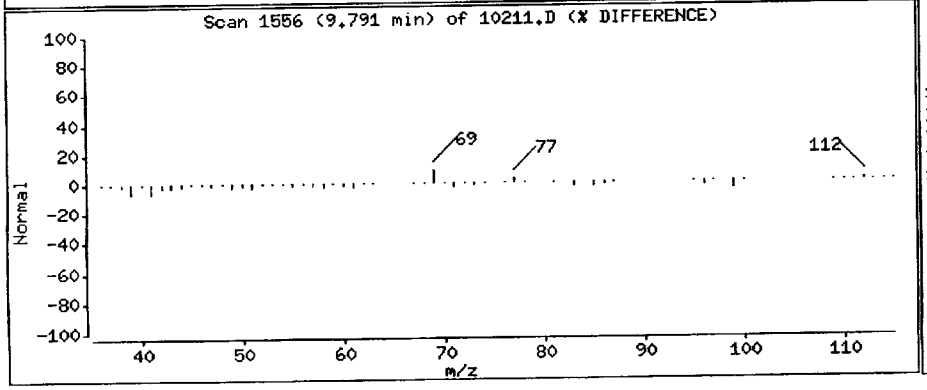
55 trans 1,3-Dichloropropene

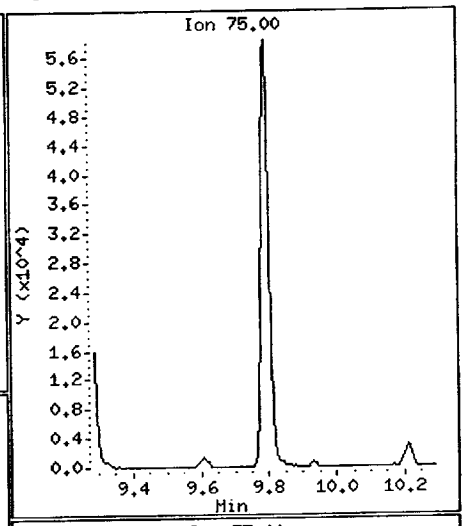
Concentration: 21.0 ug/l

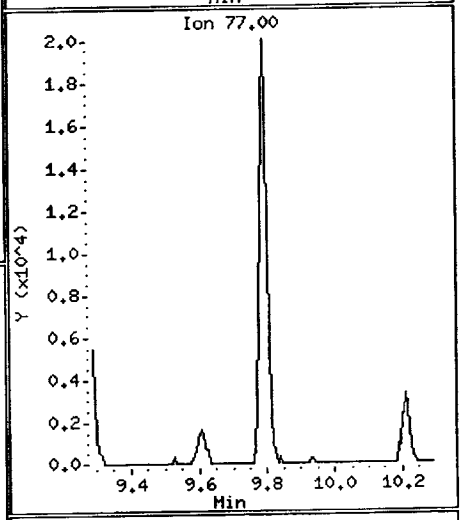


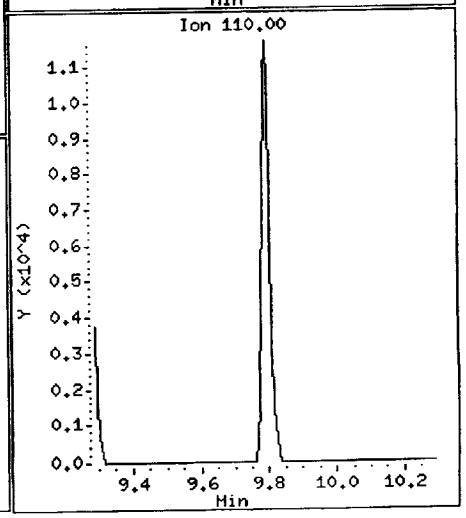












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10211.D

Date : 25-SEP-2002 08:01

Client ID: 11Q30228MSD

Instrument: vms03.i

Sample Info: 220910211;2209102;1;

Purge Volume: 5.0

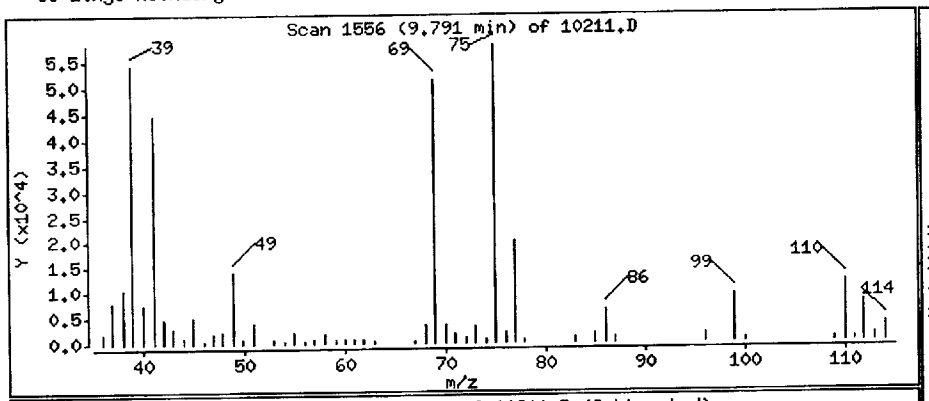
Operator:

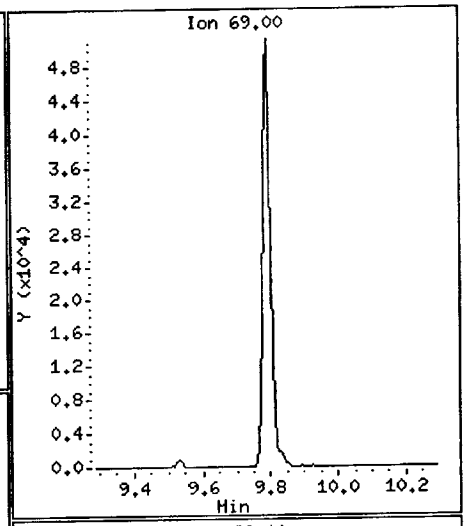
Column phase: DB-624

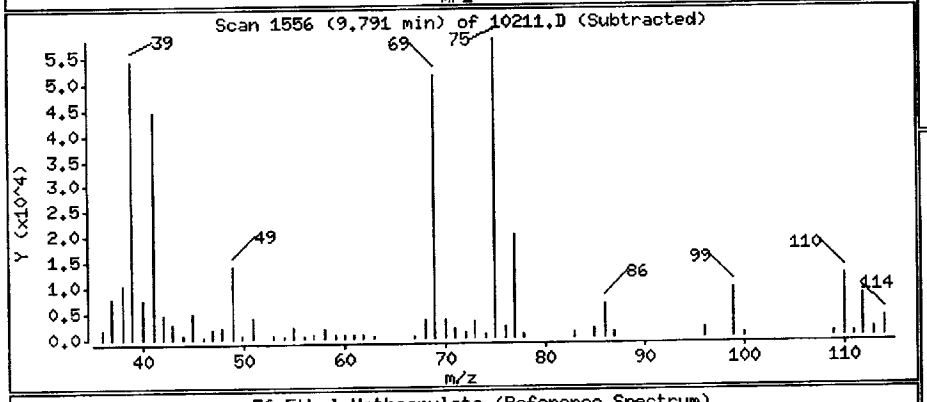
Column diameter: 0.18

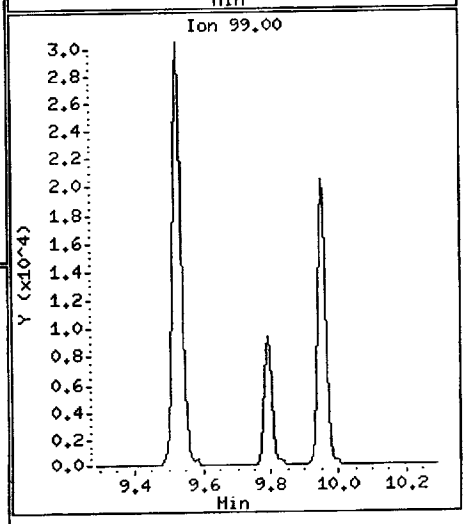
56 Ethyl Methacrylate

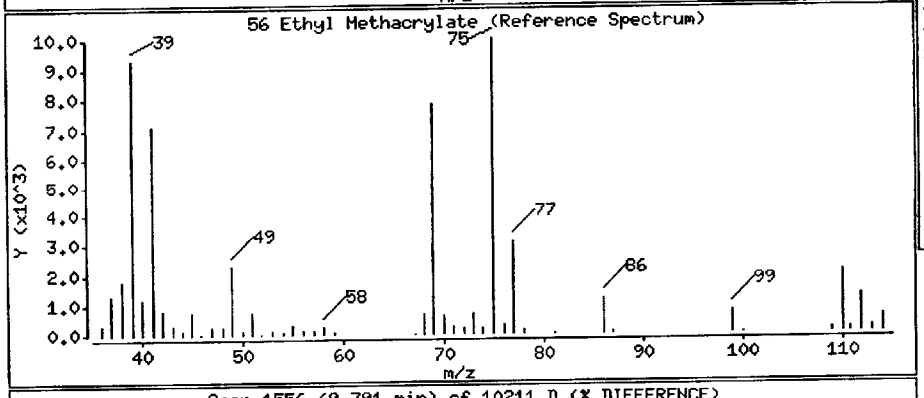
Concentration: 20.8 ug/l

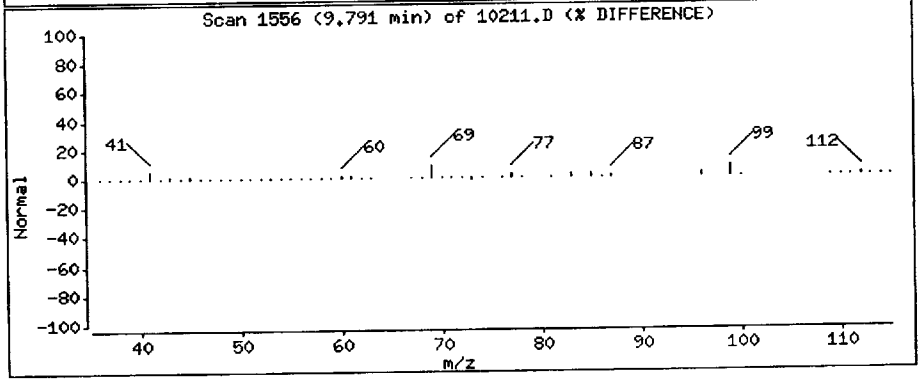












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10211.D

Date : 25-SEP-2002 08:01

Client ID: 11Q30228MSD

Instrument: vms03.i

Sample Info: 220910211;2209102;1;

Purge Volume: 5.0

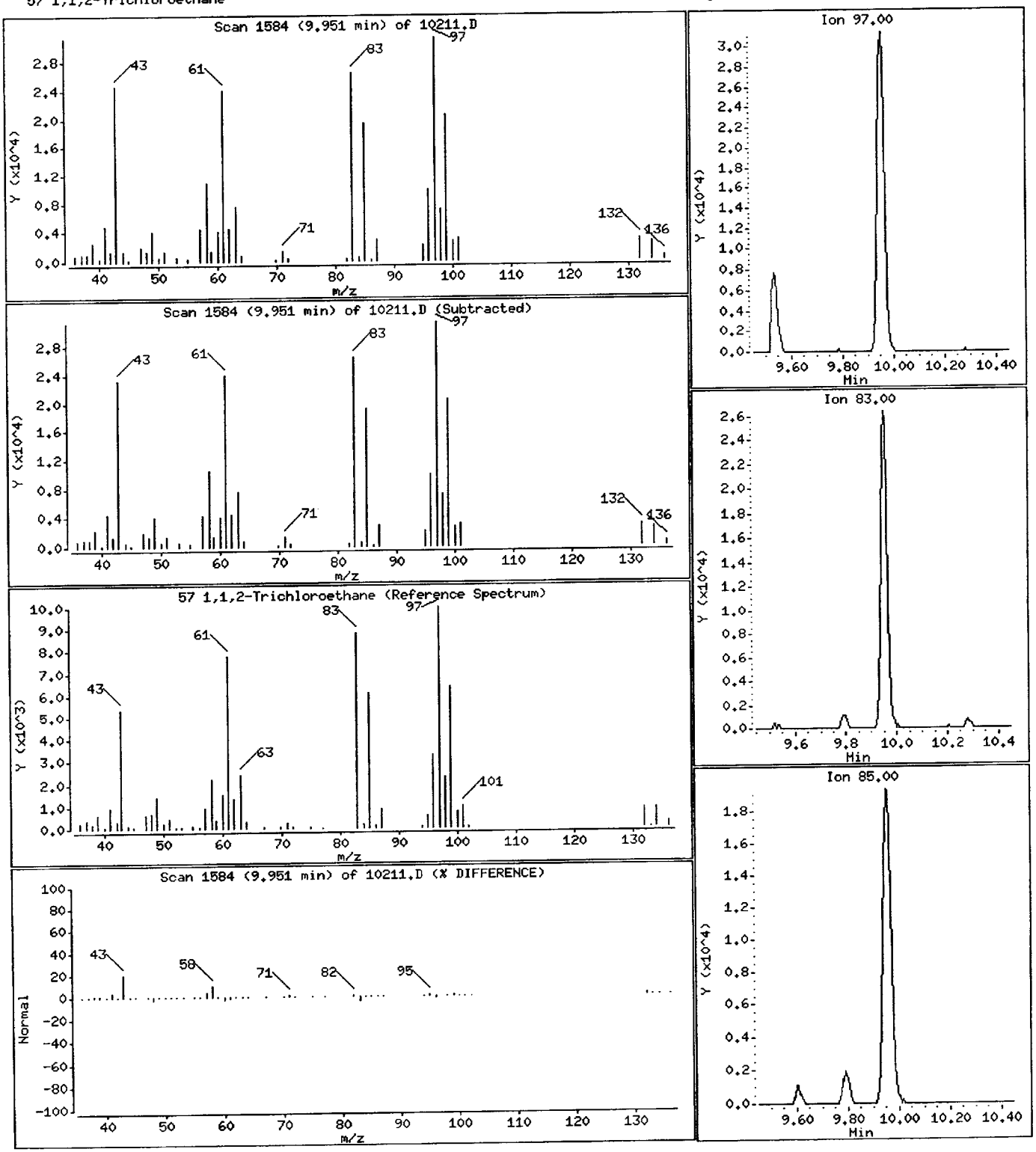
Operator:

Column phase: DB-624

Column diameter: 0.18

57 1,1,2-Trichloroethane

Concentration: 20.3 ug/l



Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10211.D

Date : 25-SEP-2002 08:01

Client ID: 11Q30228MSD

Instrument: vms03.i

Sample Info: 220910211;2209102;1;

Purge Volume: 5.0

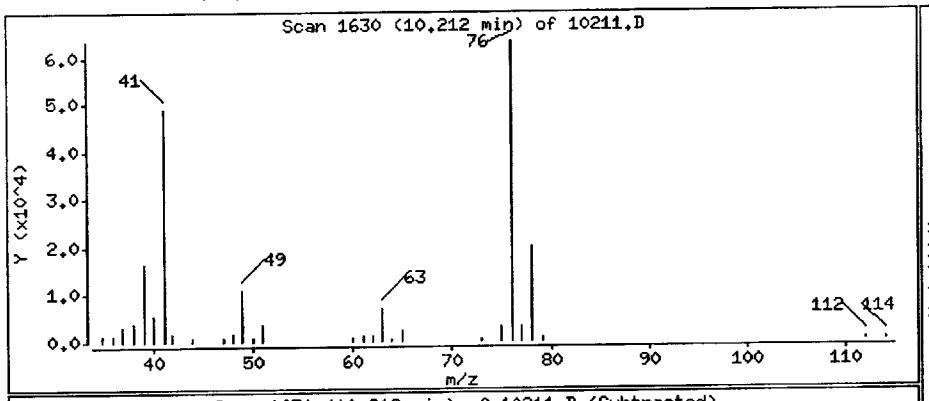
Operator:

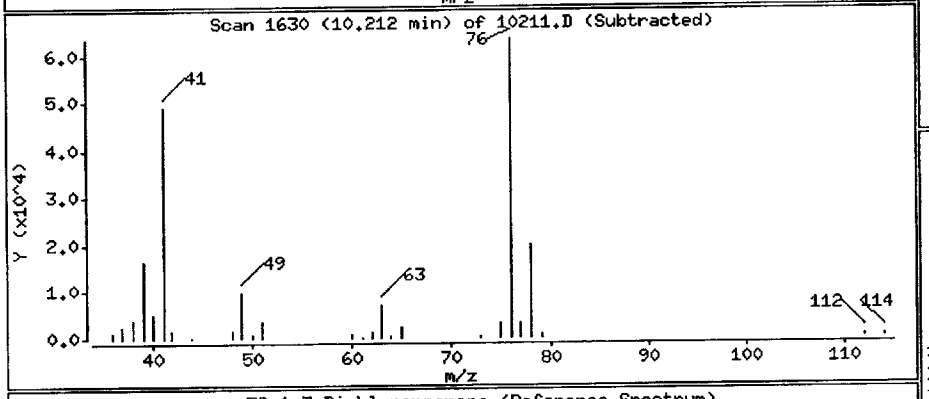
Column phase: DB-624

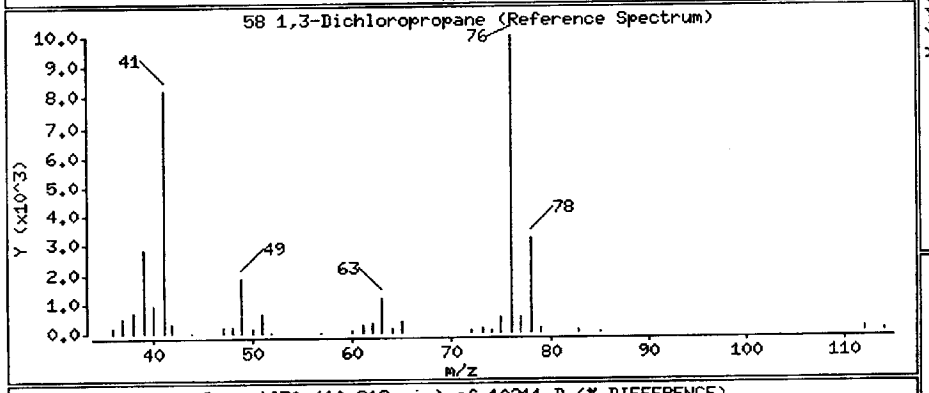
Column diameter: 0.18

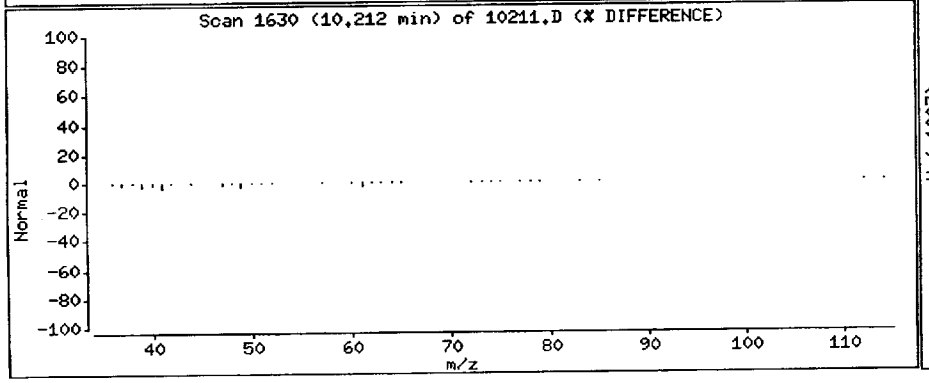
58 1,3-Dichloropropane

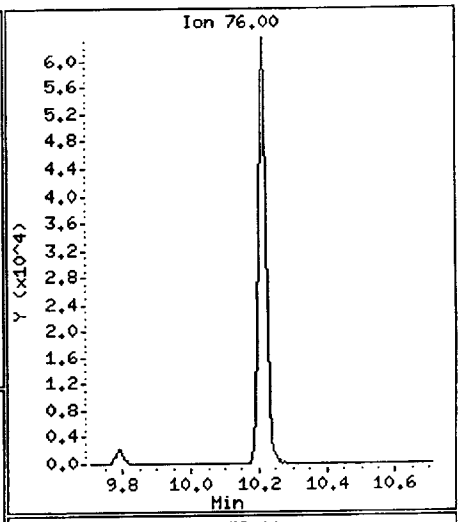
Concentration: 20.6 ug/l

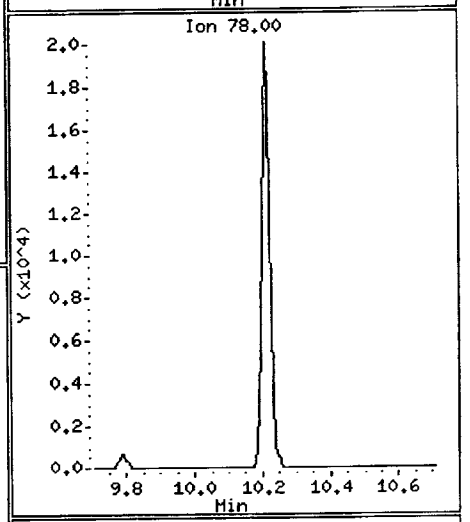


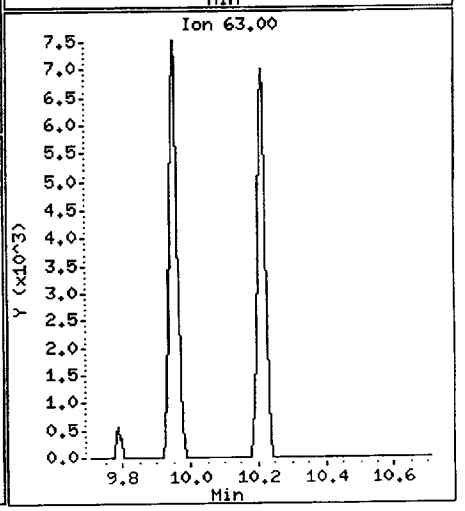












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10211.D

Date : 25-SEP-2002 08:01

Client ID: 11Q30228MSD

Instrument: vms03.i

Sample Info: 220910211;2209102;1;

Purge Volume: 5.0

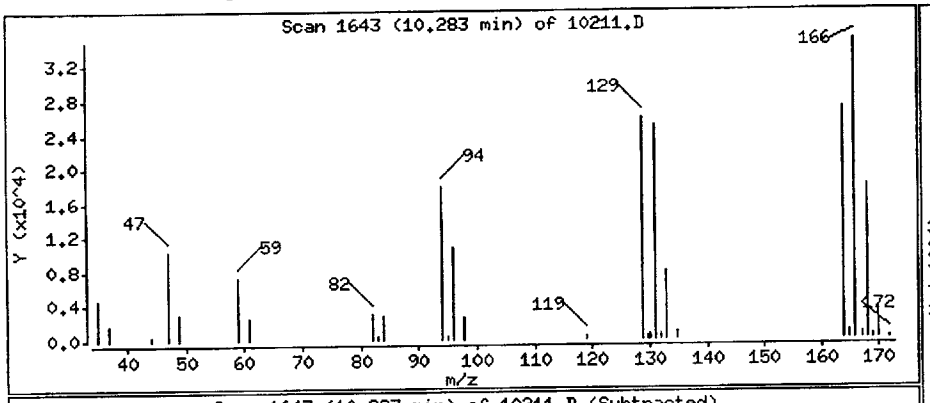
Operator:

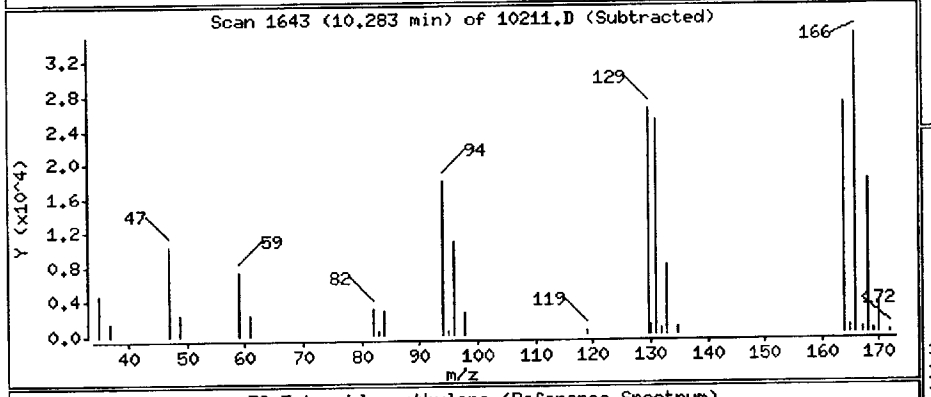
Column phase: DB-624

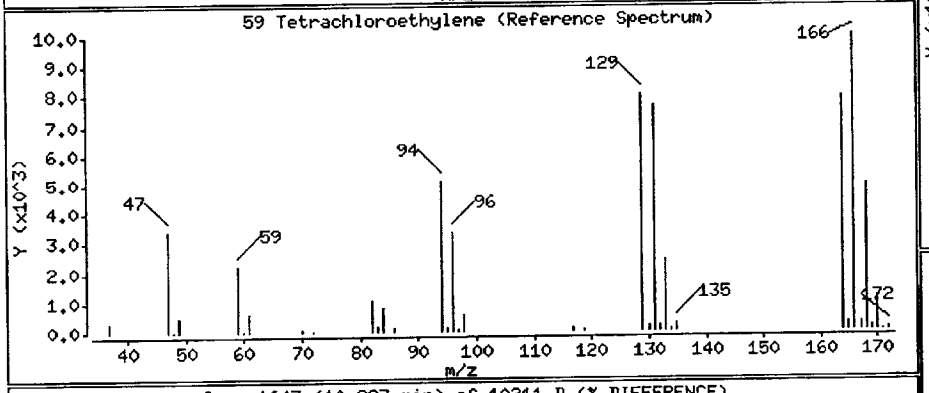
Column diameter: 0.18

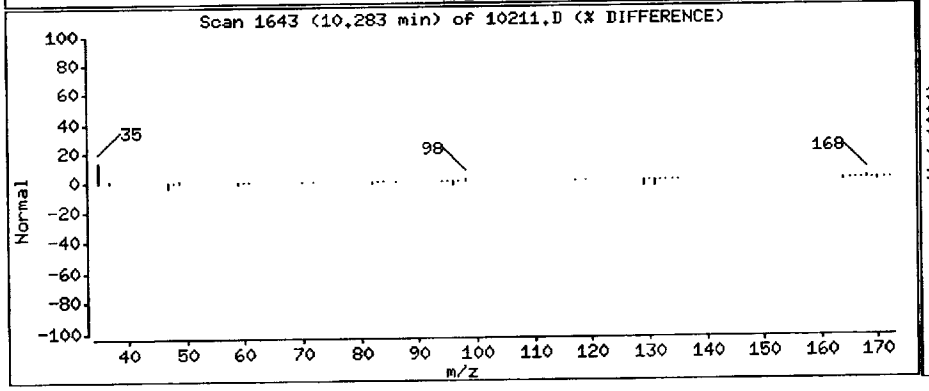
59 Tetrachloroethylene

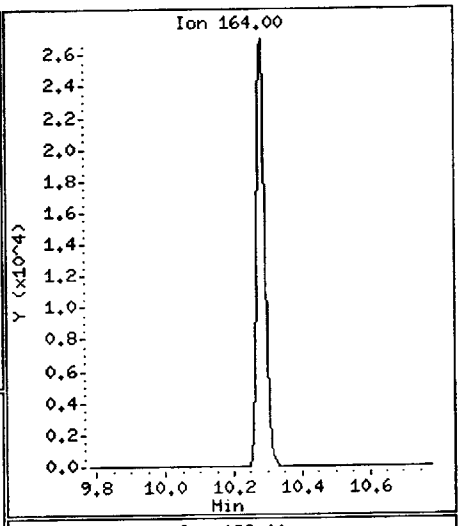
Concentration: 21.3 ug/l

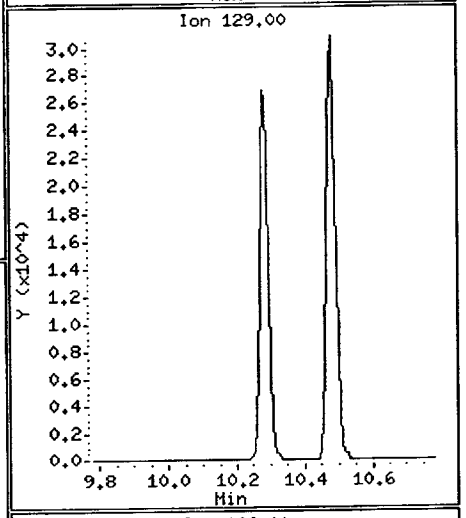


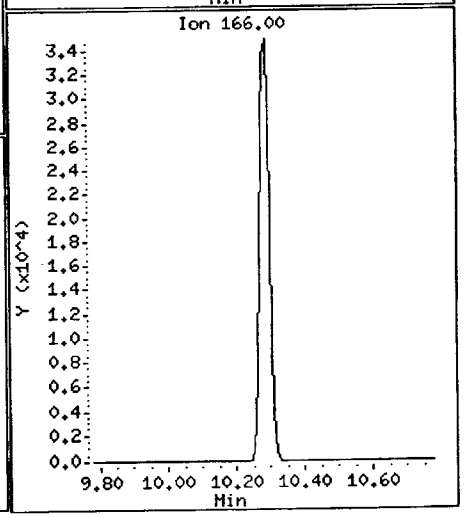












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10211.D

Date : 25-SEP-2002 08:01

Client ID: 11Q30228MSD

Instrument: vms03.i

Sample Info: 220910211;2209102;1;

Purge Volume: 5.0

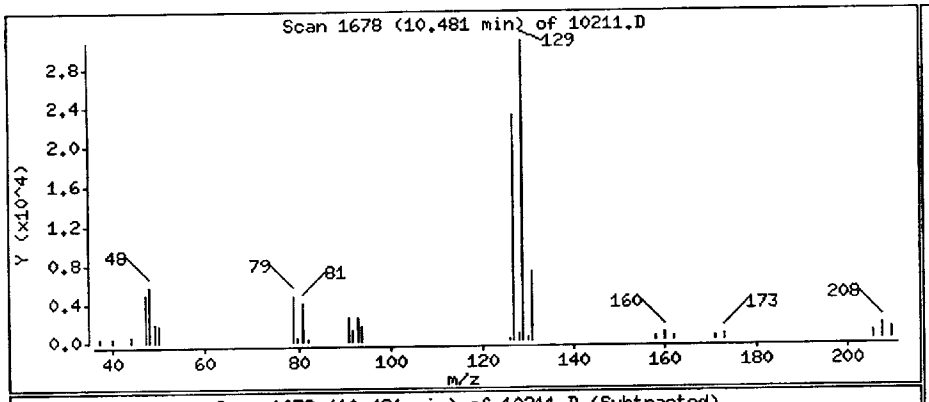
Operator:

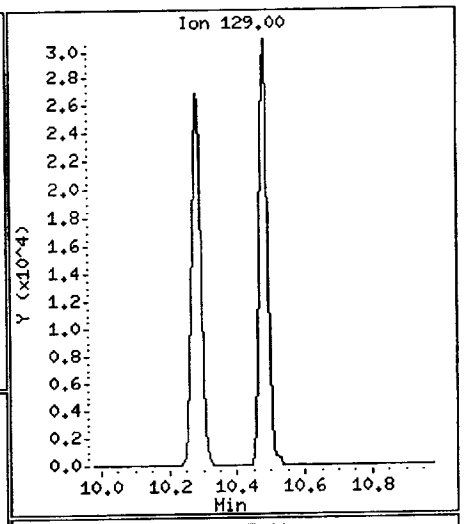
Column phase: DB-624

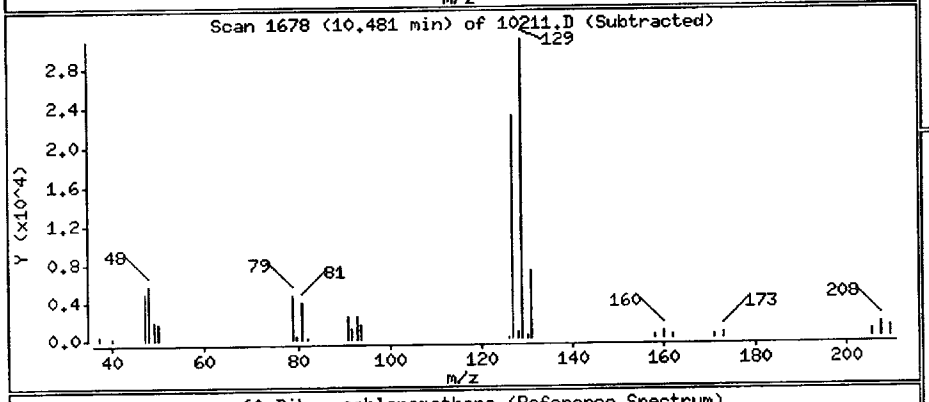
Column diameter: 0.18

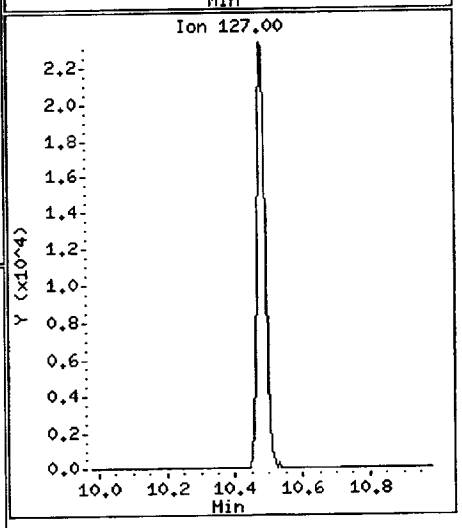
60 Dibromochloromethane

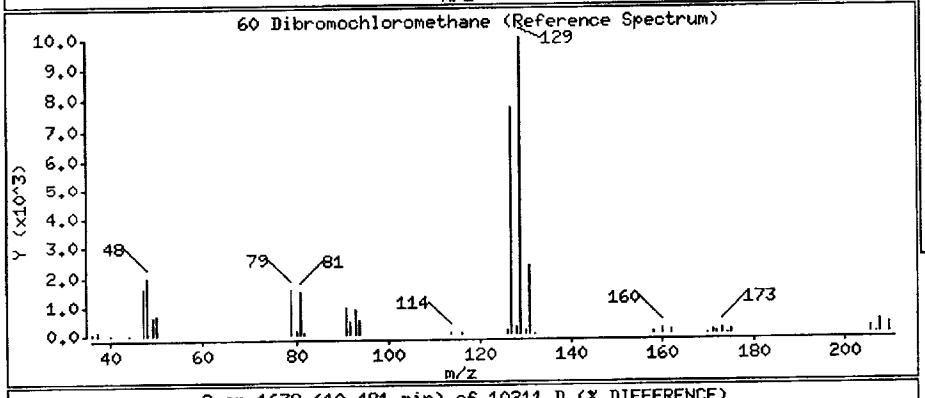
Concentration: 21.0 ug/l

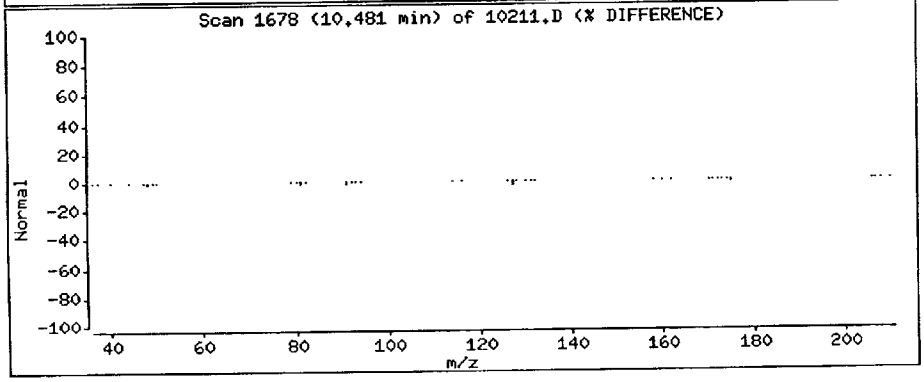












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10211.D

Date : 25-SEP-2002 08:01

Client ID: 11Q30228MSD

Instrument: vms03.i

Sample Info: 220910211;2209102;1;

Purge Volume: 5.0

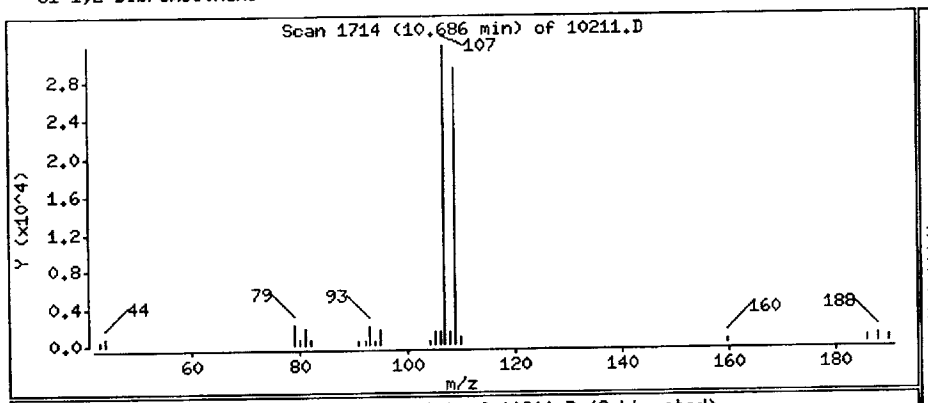
Operator:

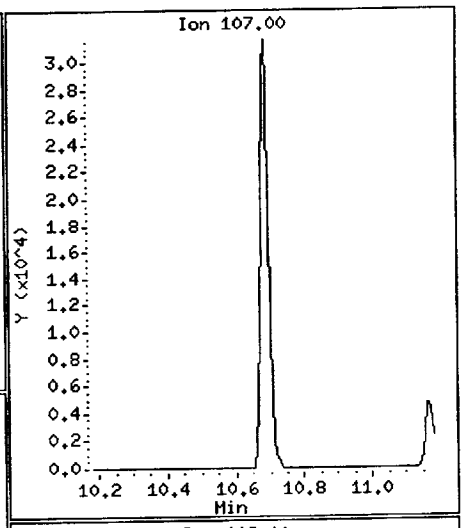
Column phase: DB-624

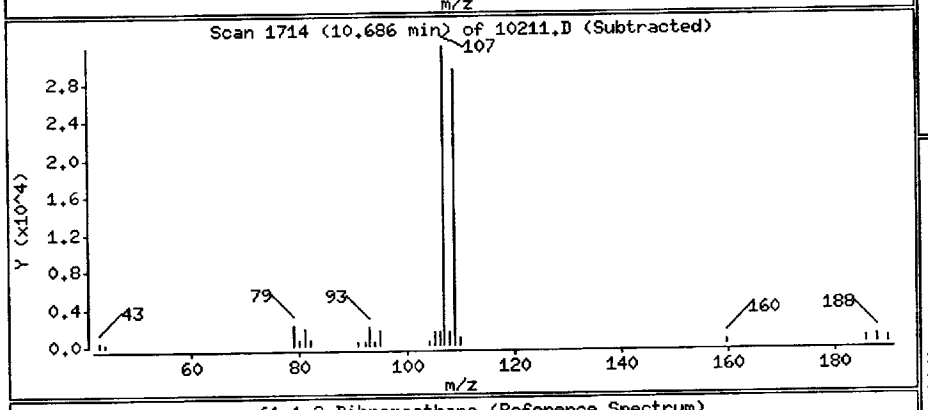
Column diameter: 0.18

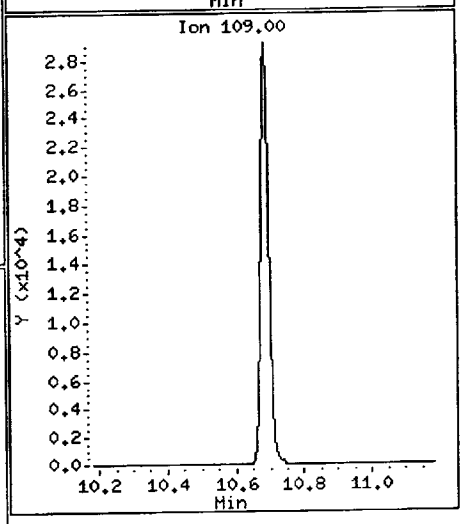
61 1,2-Dibromoethane

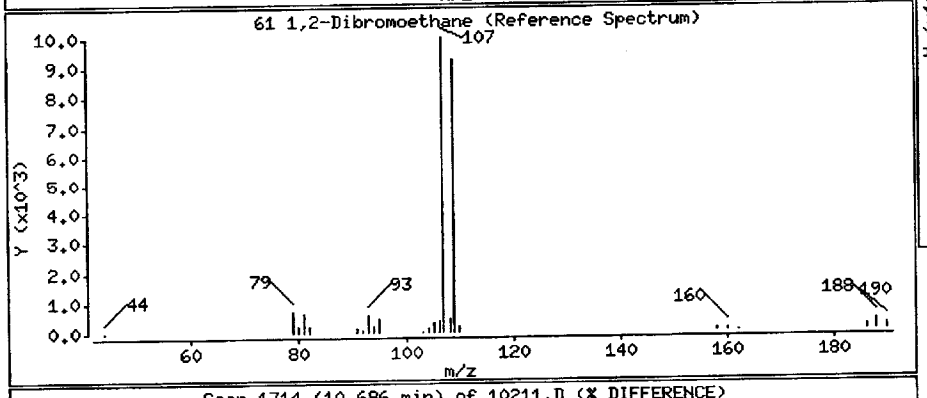
Concentration: 21.0 ug/l

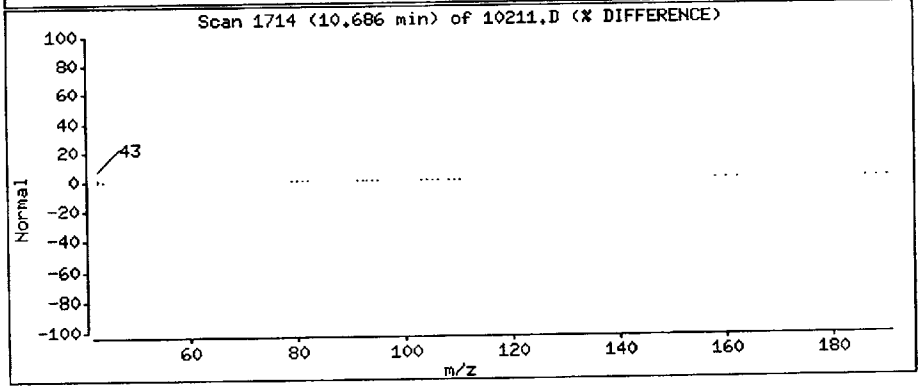












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10211.D

Date : 25-SEP-2002 08:01

Client ID: 11Q30228MSD

Instrument: vms03.i

Sample Info: 220910211;2209102;1;

Purge Volume: 5.0

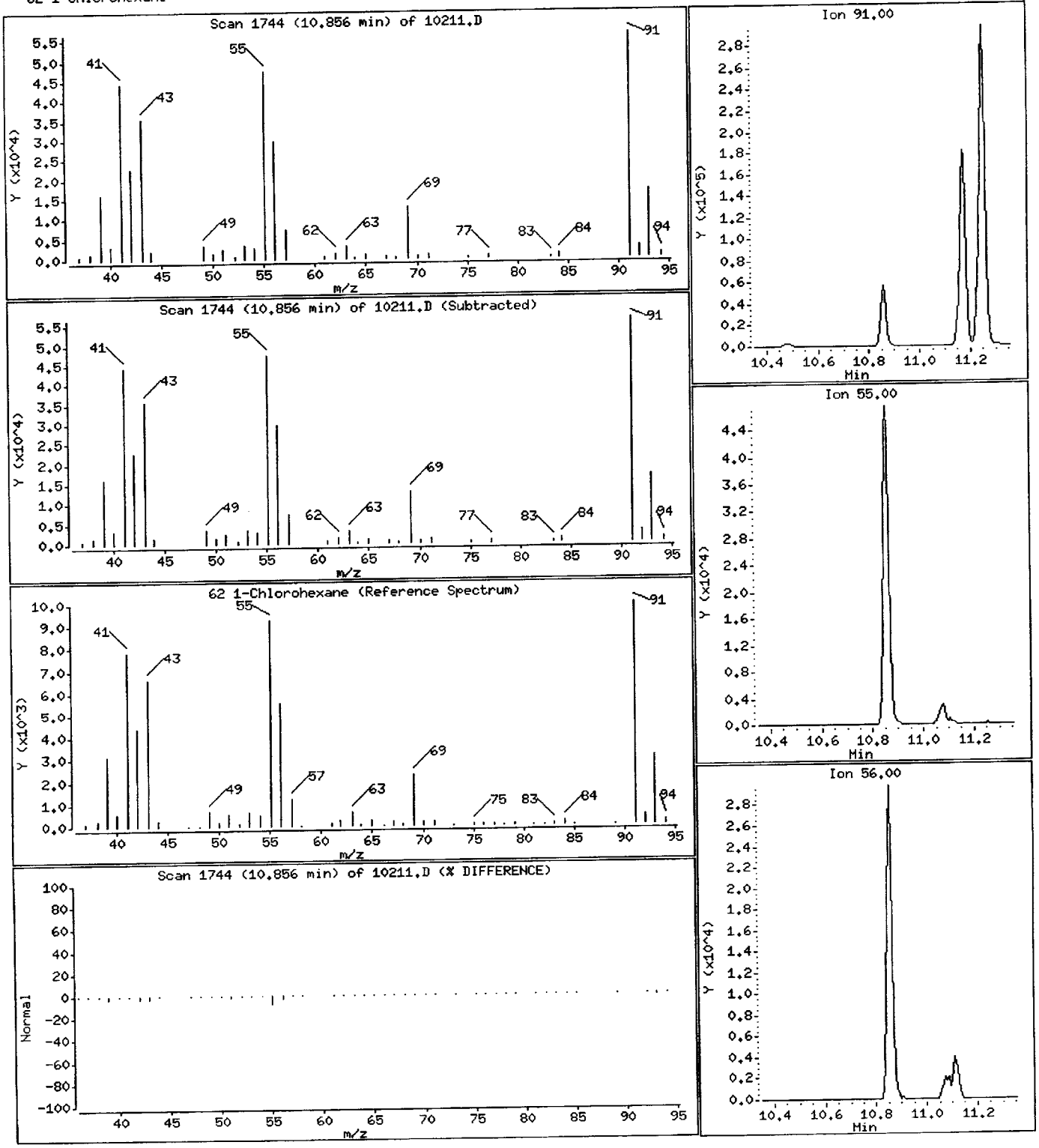
Operator:

Column phase: DB-624

Column diameter: 0.18

62 1-Chlorohexane

Concentration: 22.4 ug/l



Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10211.D

Date : 25-SEP-2002 08:01

Client ID: 11Q30228MSD

Instrument: vms03.i

Sample Info: 220910211;2209102;1;

Purge Volume: 5.0

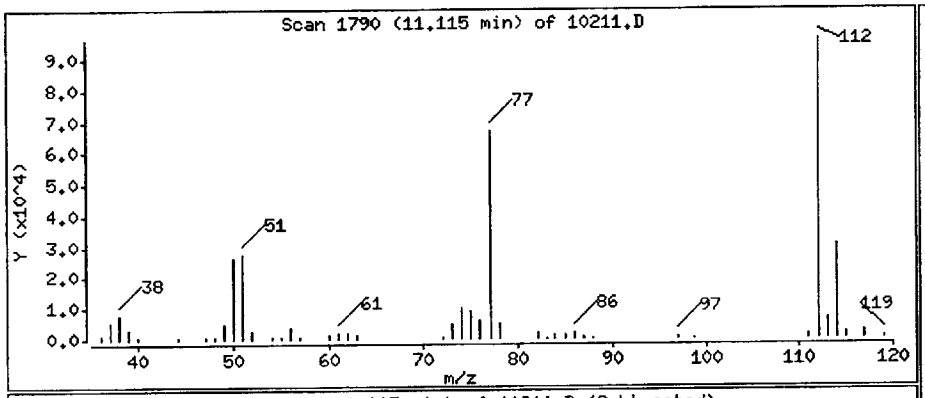
Operator:

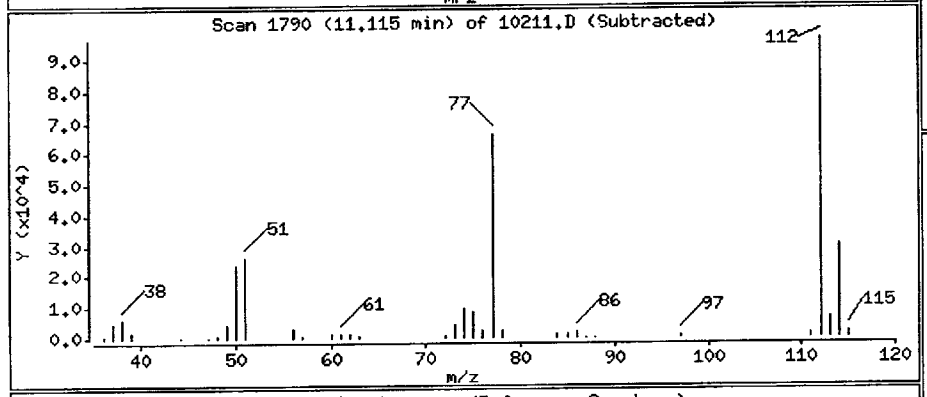
Column phase: DB-624

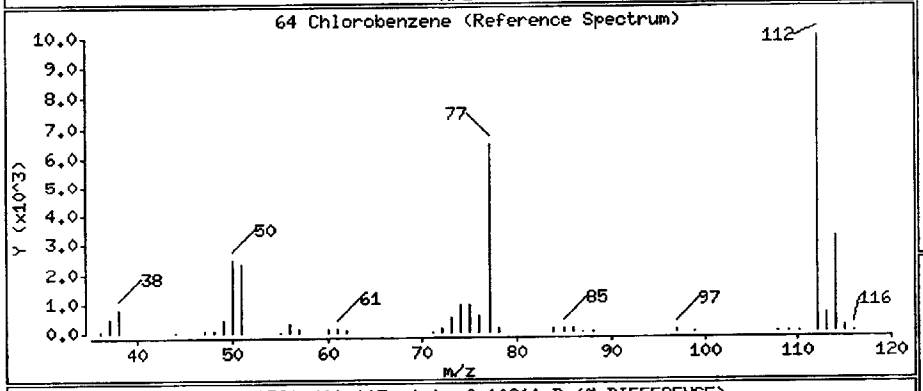
Column diameter: 0.18

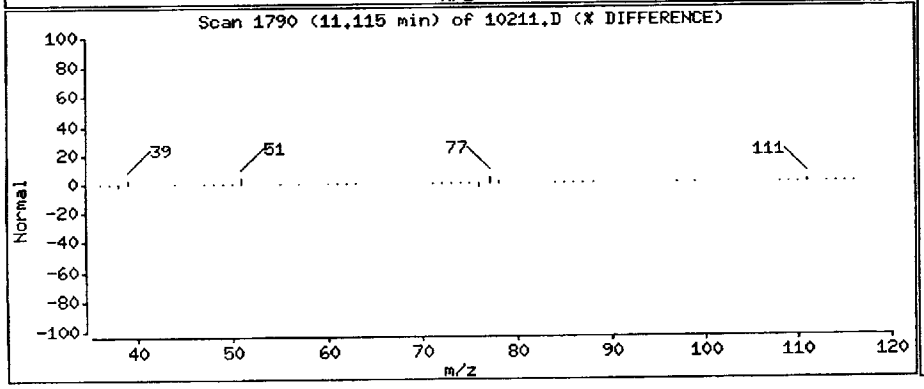
64 Chlorobenzene

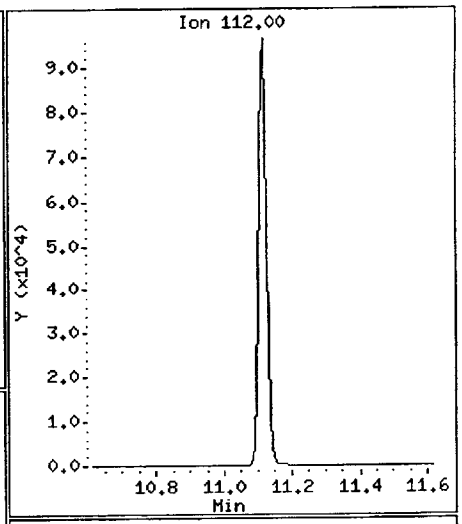
Concentration: 20.8 ug/l

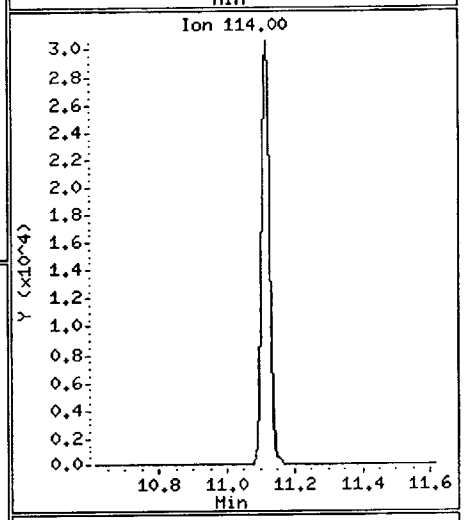


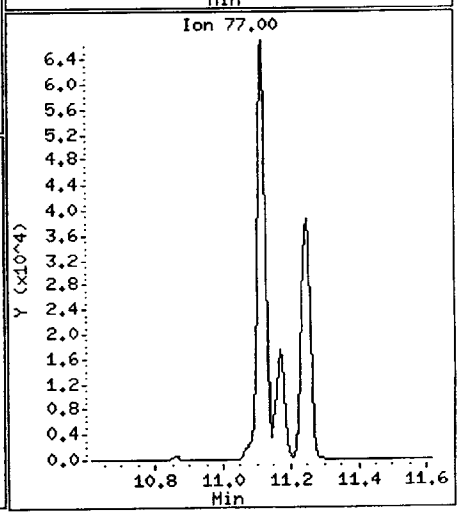












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10211.D

Date : 25-SEP-2002 08:01

Client ID: 11Q30228MSD

Instrument: vms03.i

Sample Info: 220910211;2209102;1;

Operator:

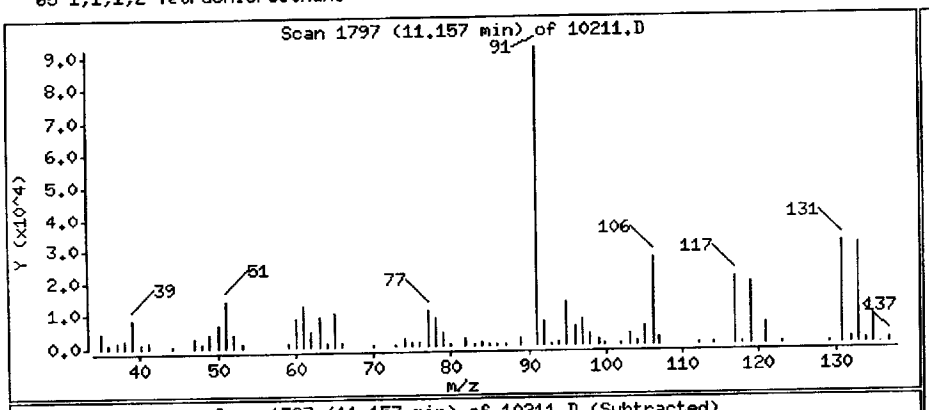
Purge Volume: 5.0

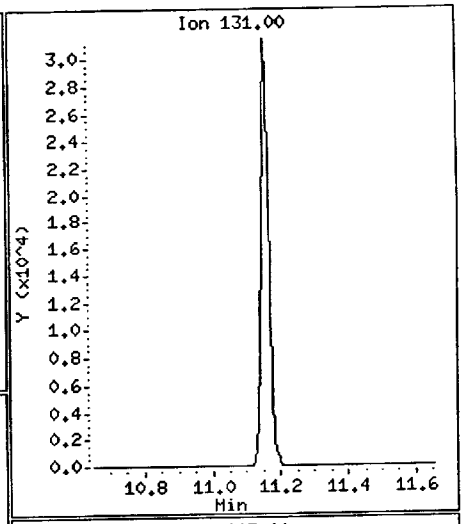
Column phase: DB-624

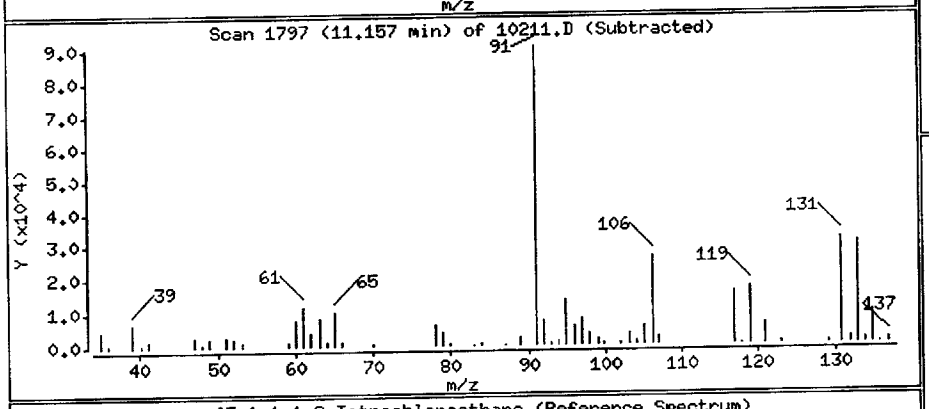
Column diameter: 0.18

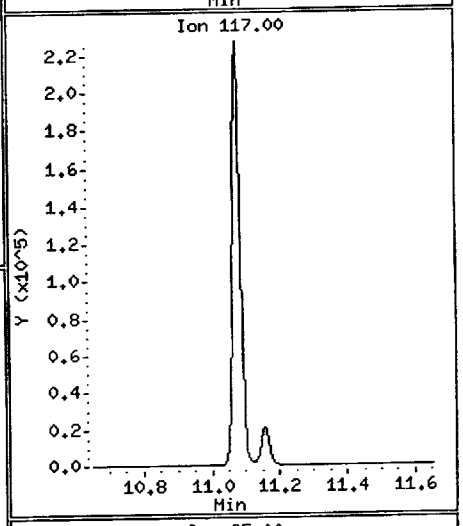
65 1,1,1,2-Tetrachloroethane

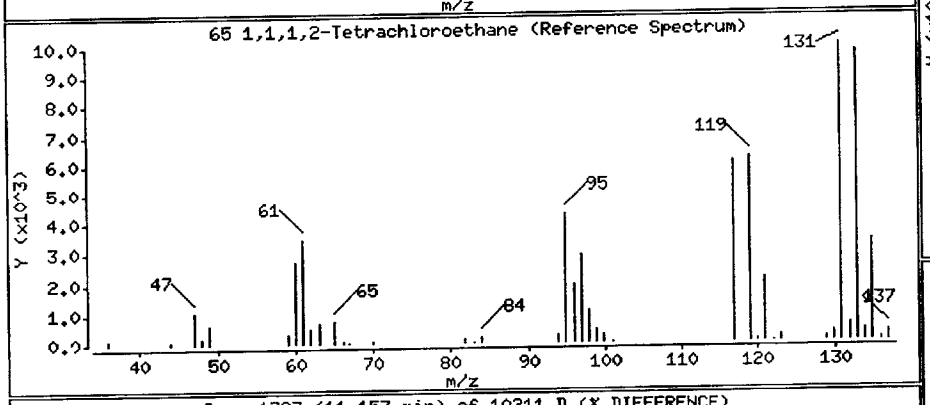
Concentration: 21.1 ug/l

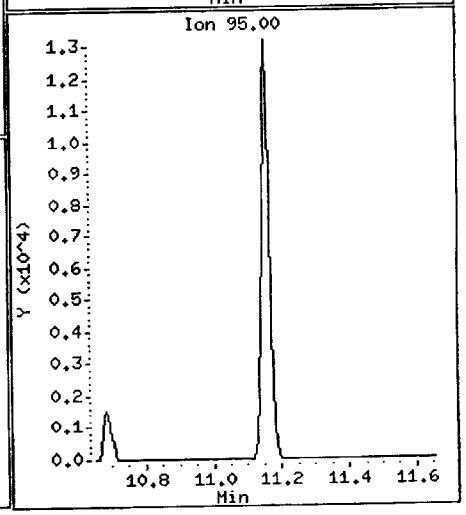


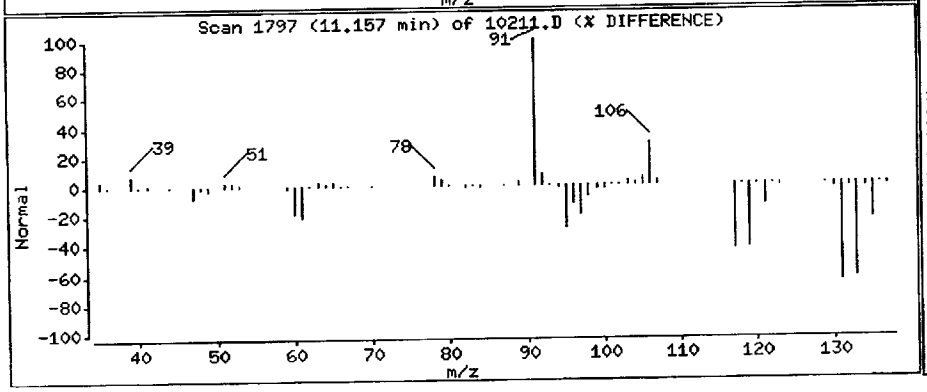












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10211.D

Date : 25-SEP-2002 08:01

Client ID: 11Q30228MSD

Instrument: vms03.i

Sample Info: 220910211;2209102;1;

Operator:

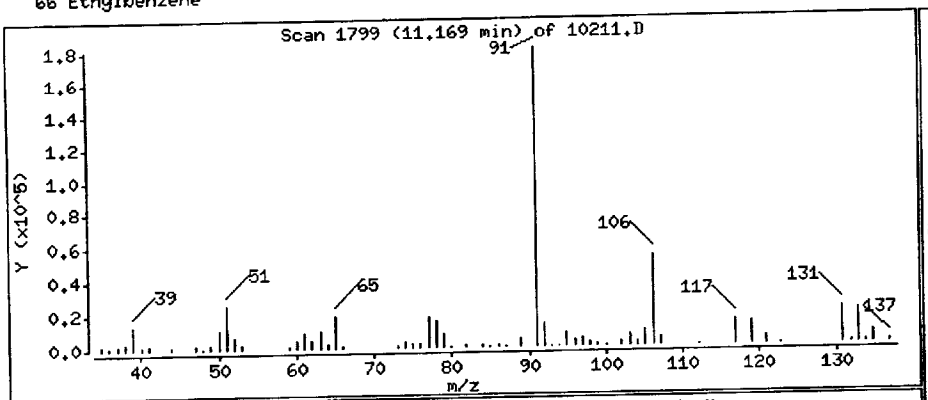
Purge Volume: 5.0

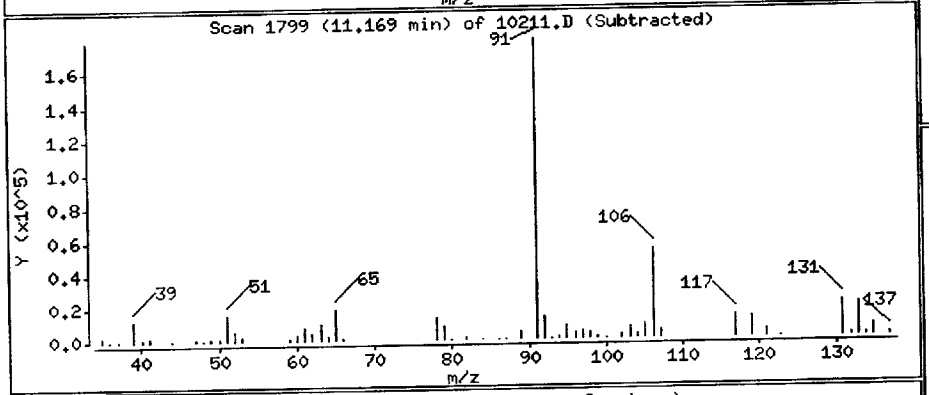
Column diameter: 0.18

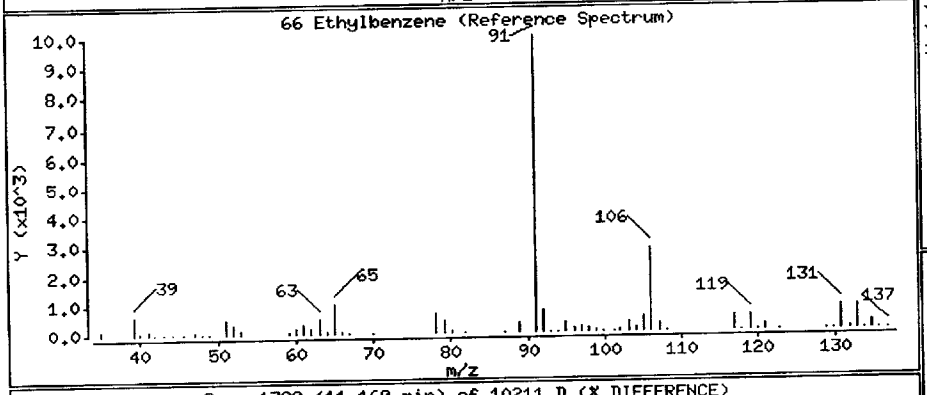
Column phase: DB-624

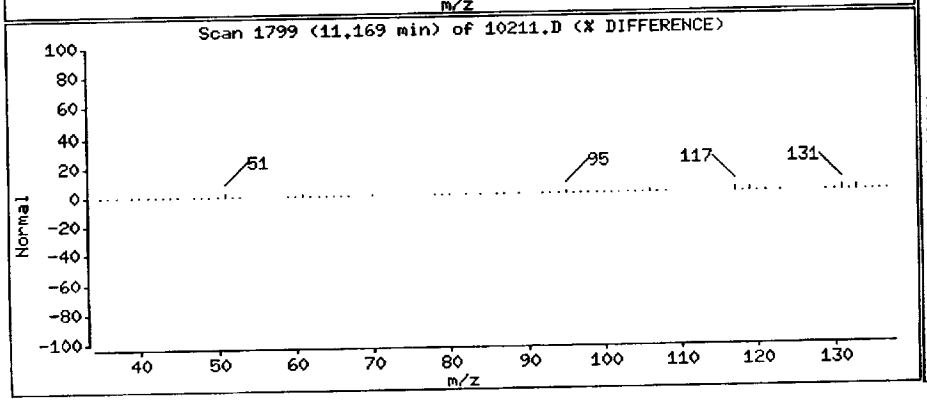
Concentration: 20.8 ug/l

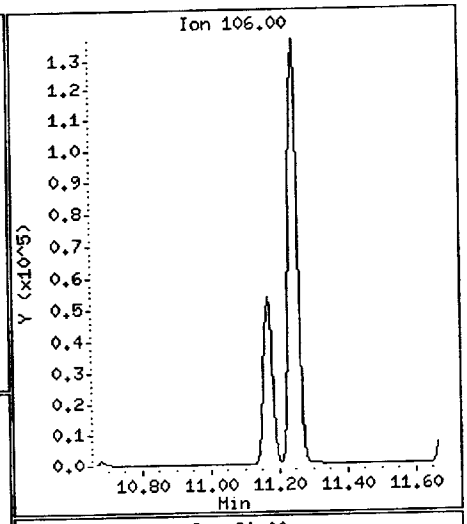
66 Ethylbenzene

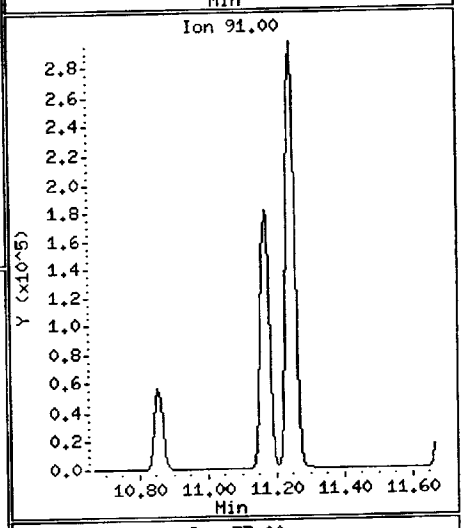


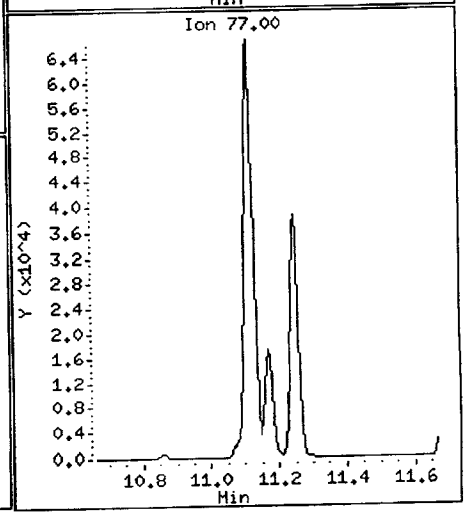












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10211.D

Date : 25-SEP-2002 08:01

Client ID: 11Q30228MSD

Instrument: vms03.i

Sample Info: 220910211;2209102;1;

Purge Volume: 5.0

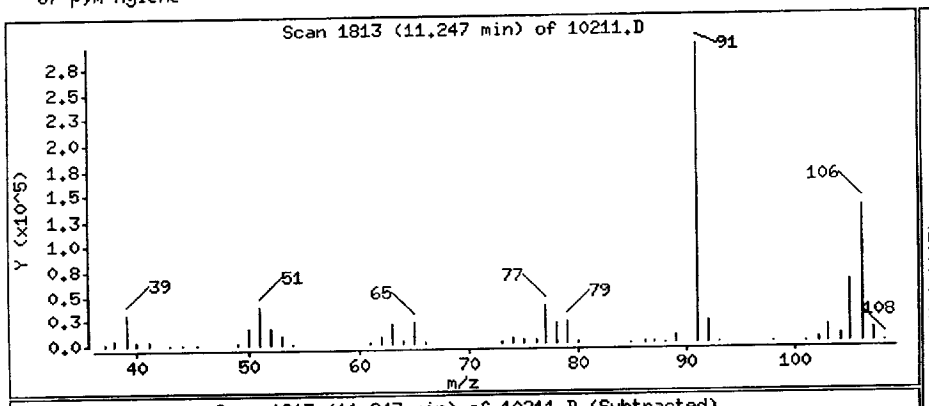
Operator:

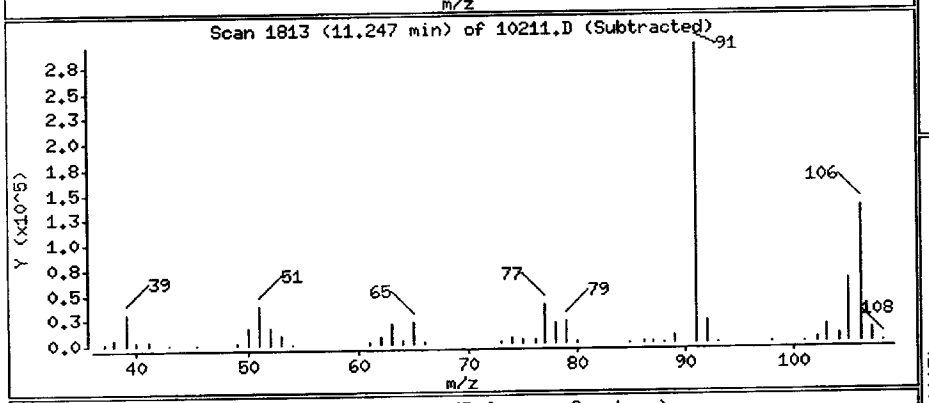
Column phase: DB-624

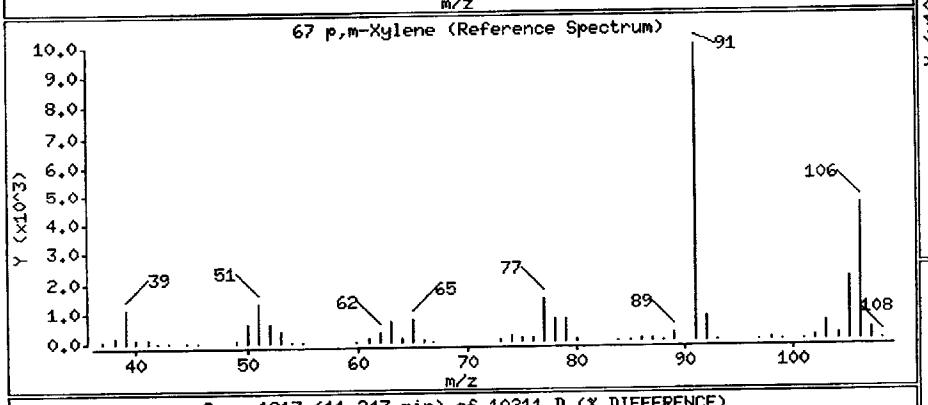
Column diameter: 0.18

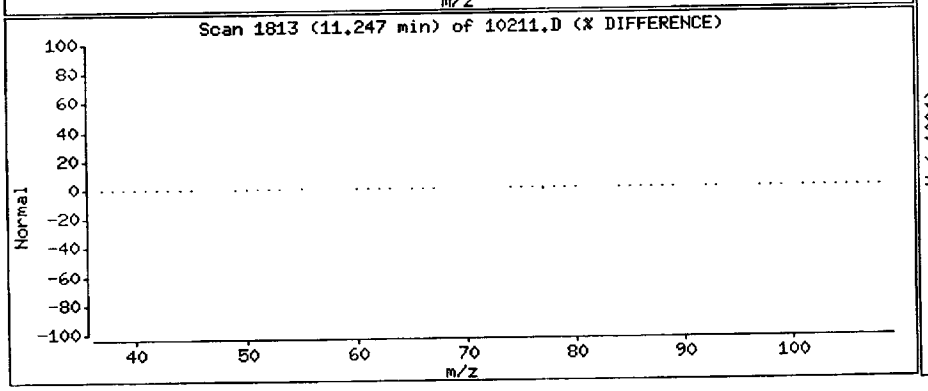
67 p,m-Xylene

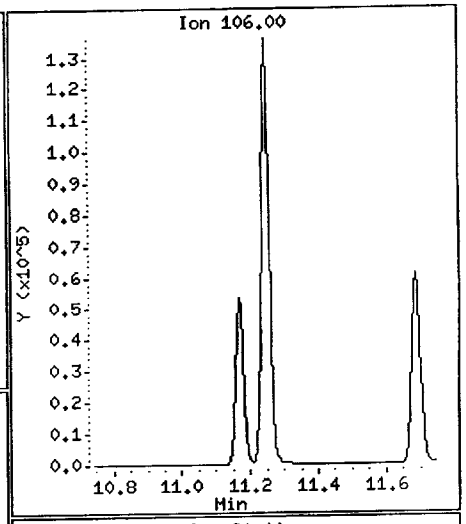
Concentration: 43.2 ug/l

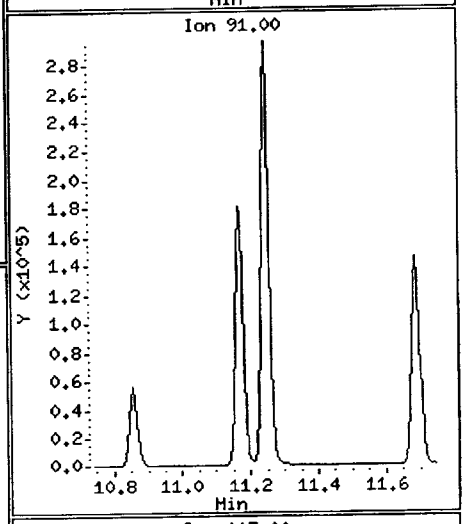


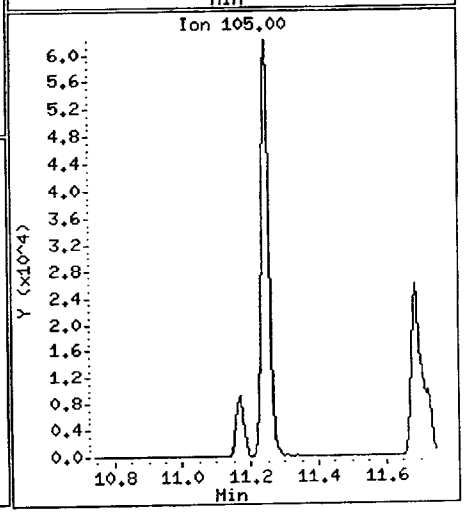












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10211.D

Date : 25-SEP-2002 08:01

Client ID: 11Q30228MSD

Instrument: vms03.i

Sample Info: 220910211;2209102;1;

Purge Volume: 5.0

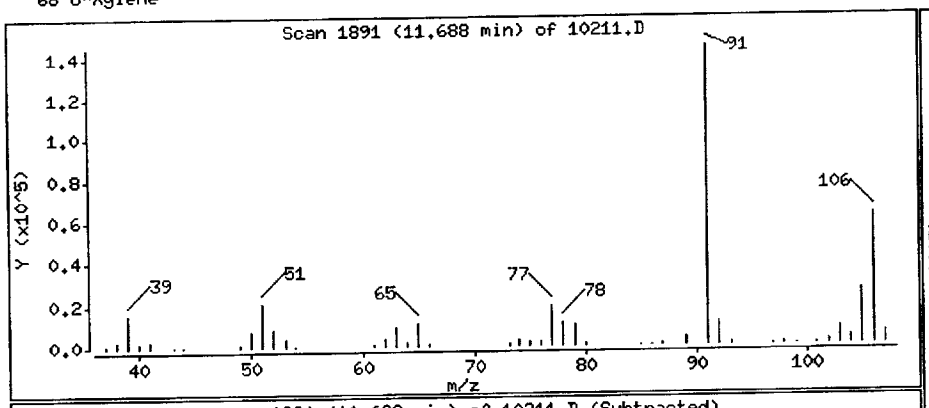
Operator:

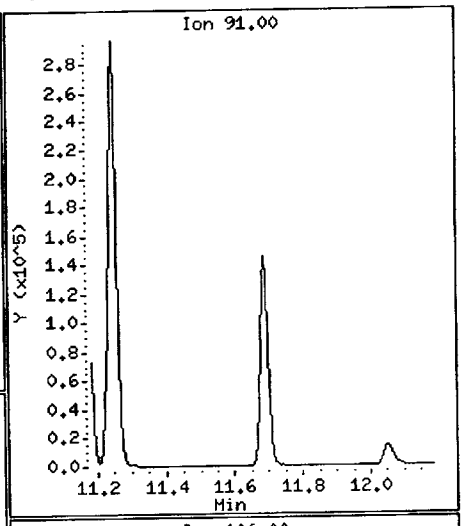
Column phase: DB-624

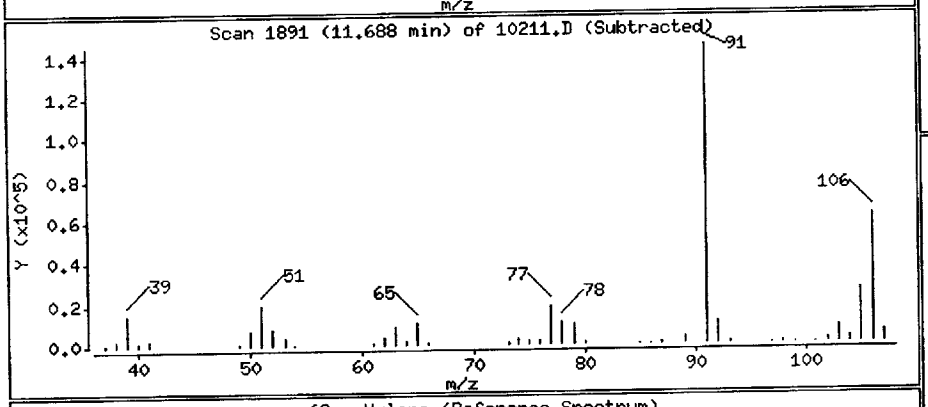
Column diameter: 0.18

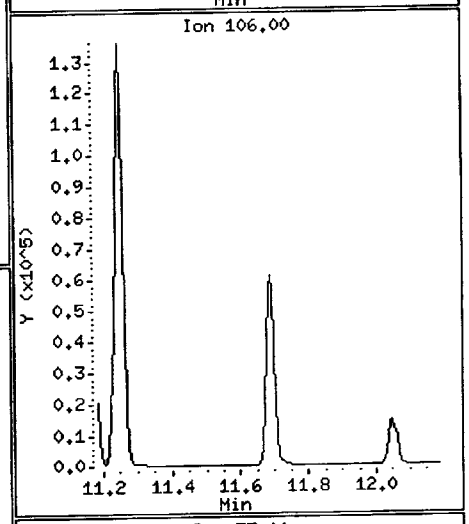
68 o-Xylene

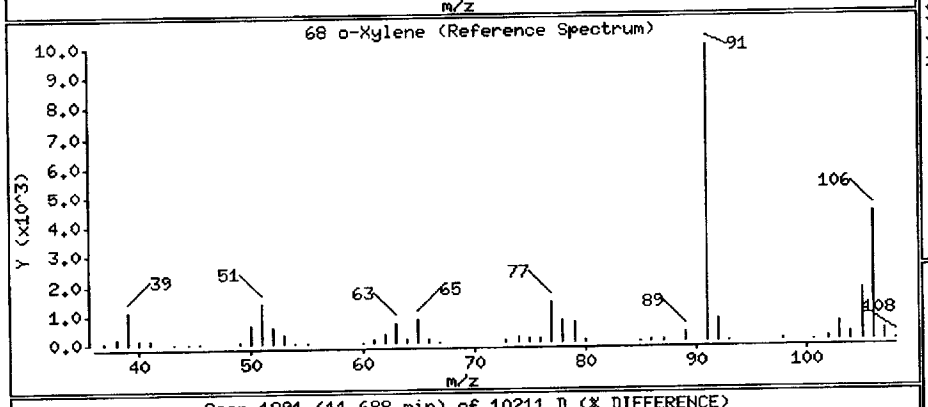
Concentration: 21.1 ug/l

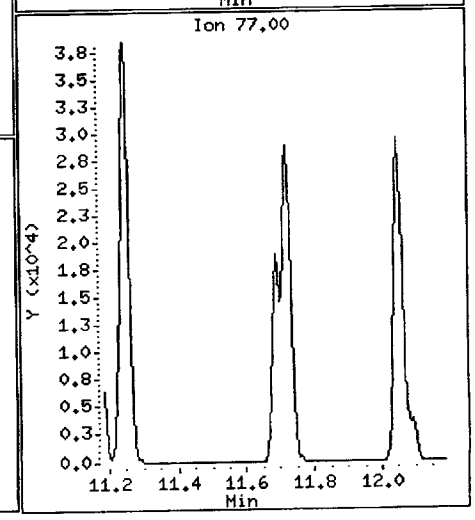


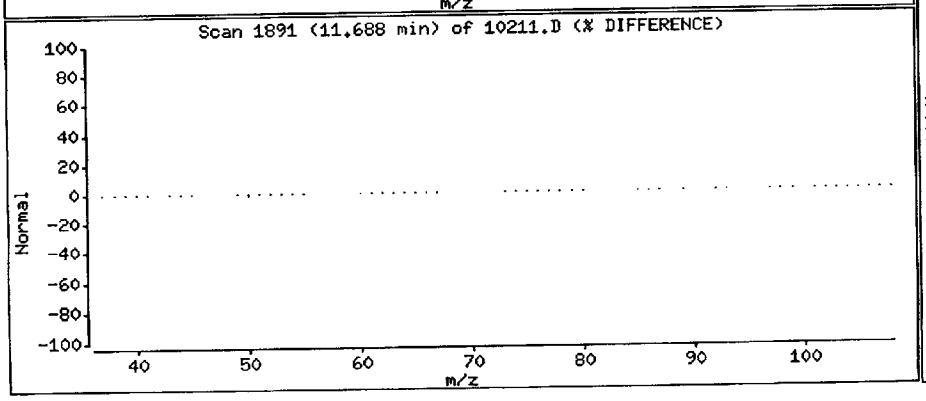












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10211.D

Date : 25-SEP-2002 08:01

Client ID: 11Q30228MSD

Instrument: vms03.i

Sample Info: 220910211;2209102;1;

Operator:

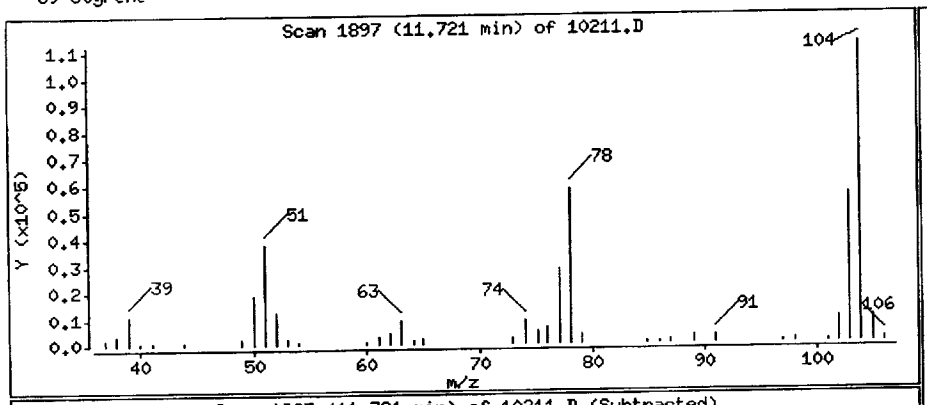
Purge Volume: 5.0

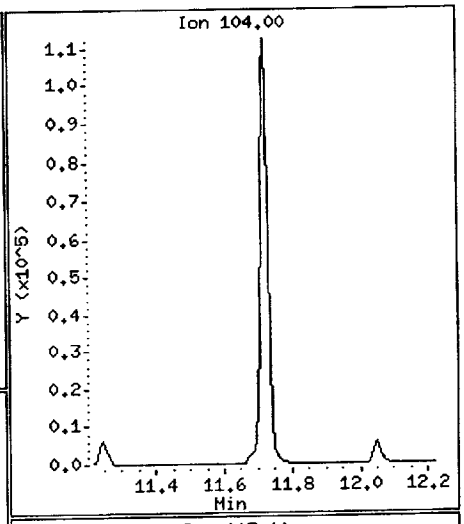
Column phase: DB-624

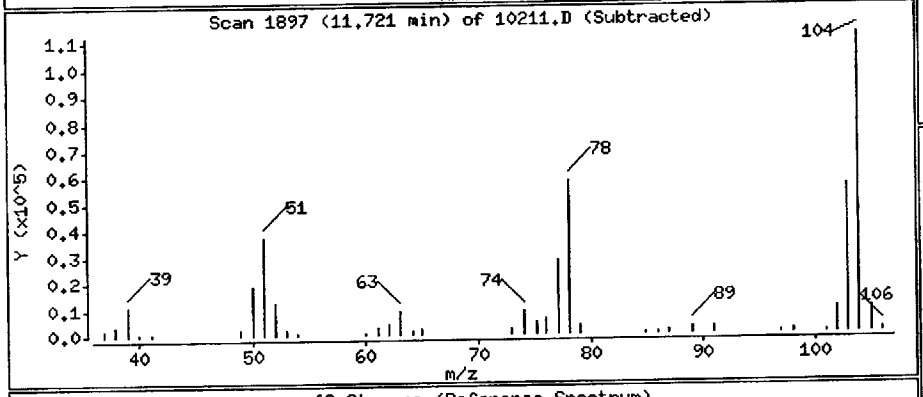
Column diameter: 0.18

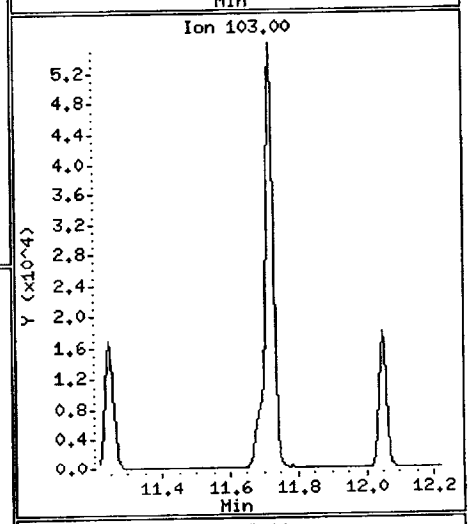
69 Styrene

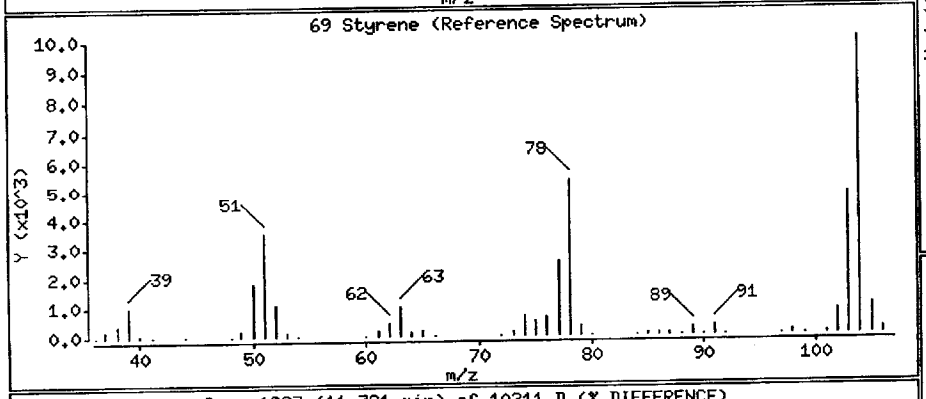
Concentration: 21.0 ug/l

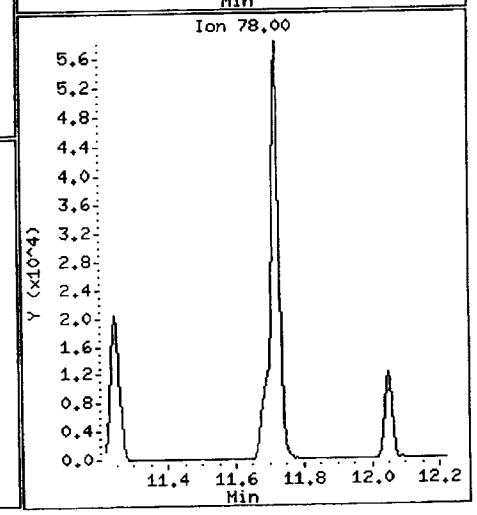


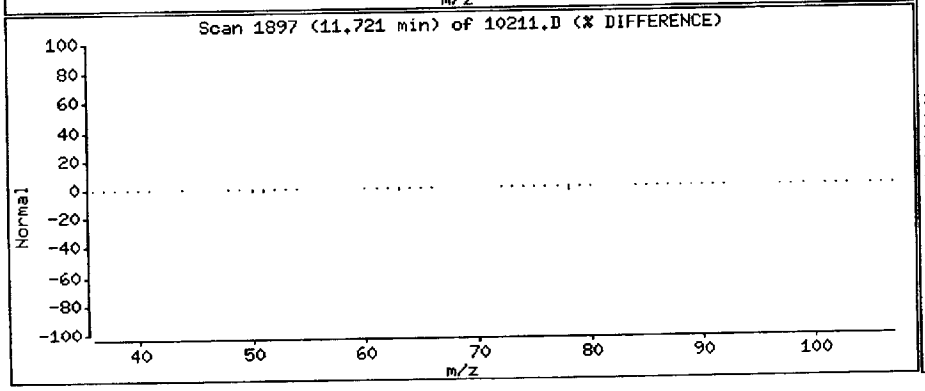












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10211.D

Date : 25-SEP-2002 08:01

Client ID: 11Q30228MSD

Instrument: vms03.i

Sample Info: 220910211;2209102;1;

Purge Volume: 5.0

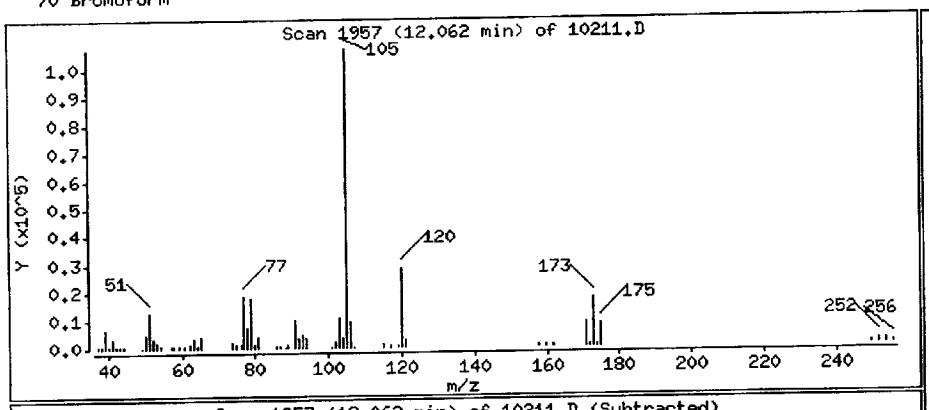
Operator:

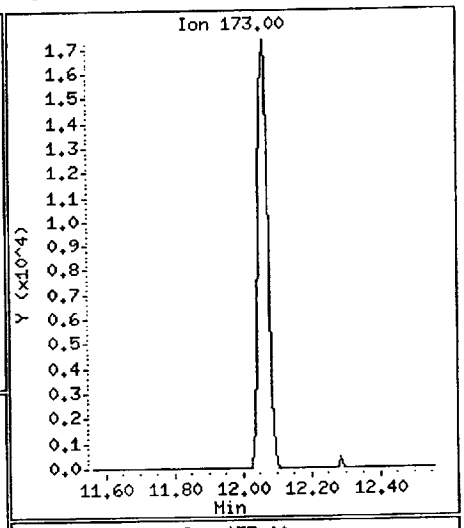
Column phase: DB-624

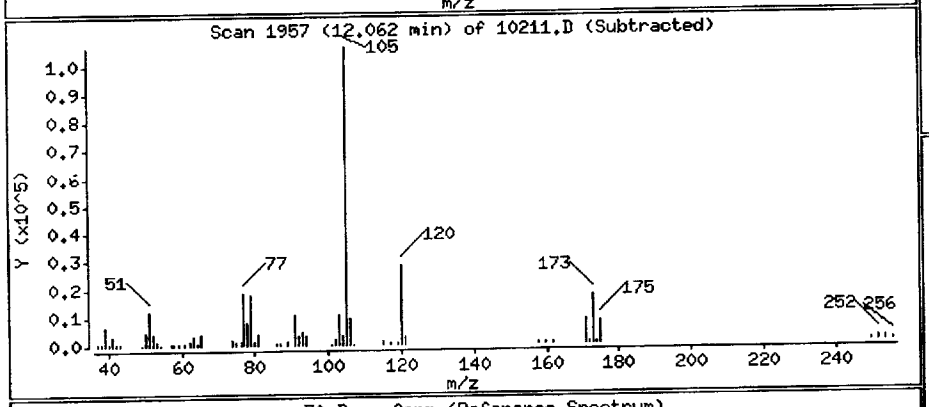
Column diameter: 0.18

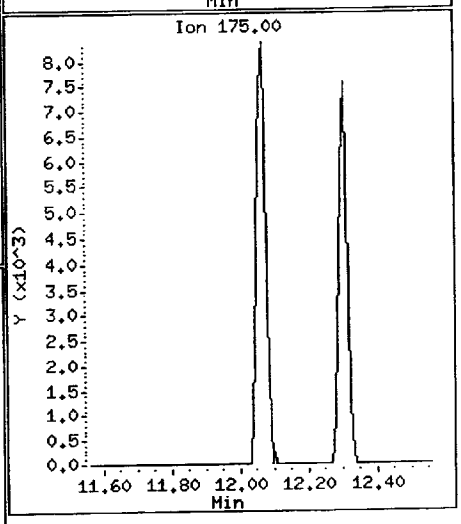
70 Bromoform

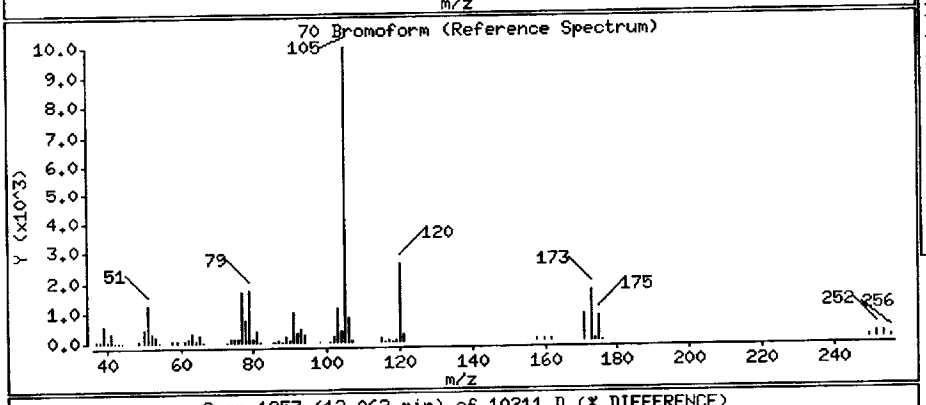
Concentration: 18.8 ug/l

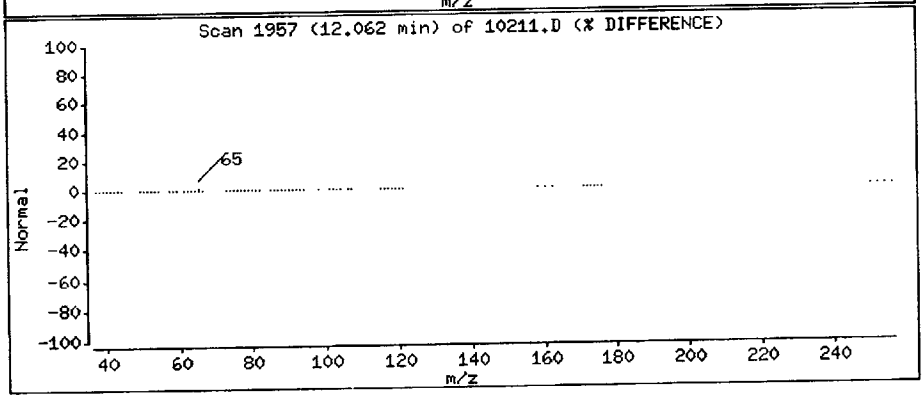












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10211.D

Date : 25-SEP-2002 08:01

Client ID: 11Q30228MSD

Instrument: vms03.i

Sample Info: 220910211;2209102;1;

Purge Volume: 5.0

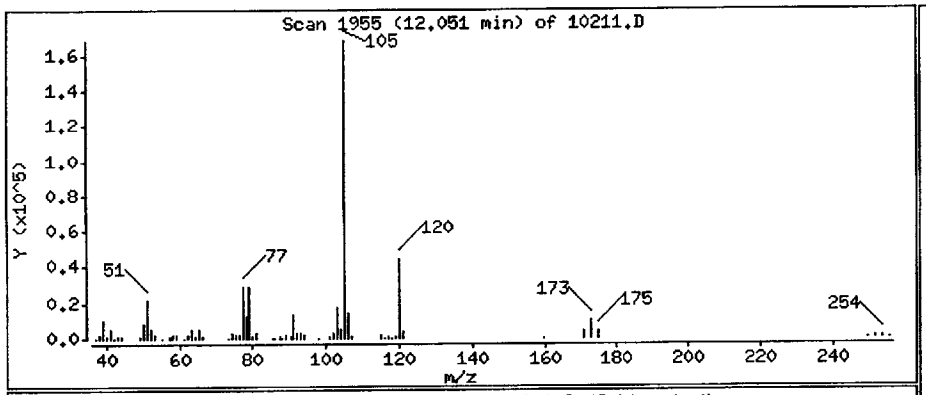
Operator:

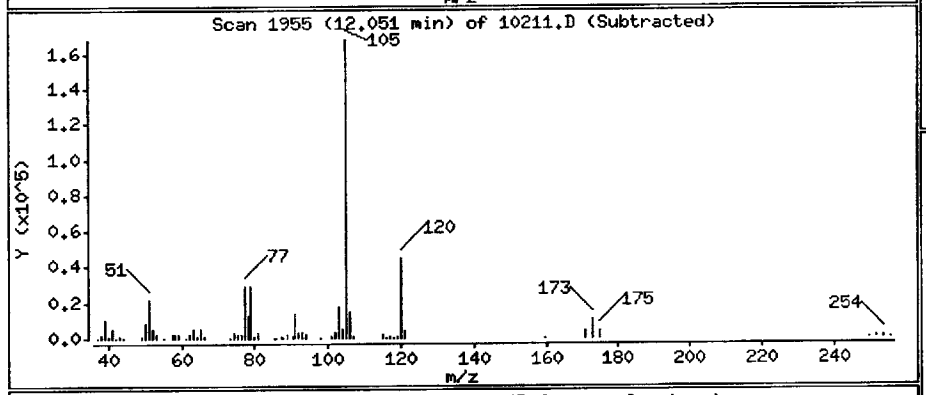
Column phase: DB-624

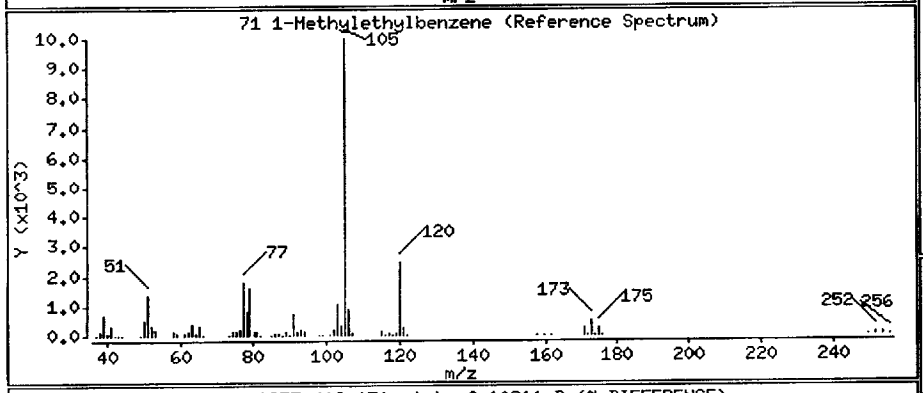
Column diameter: 0.18

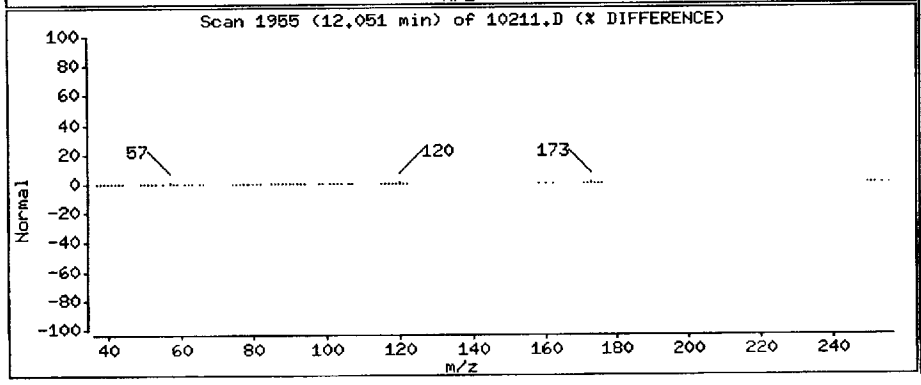
71 1-Methylethylbenzene

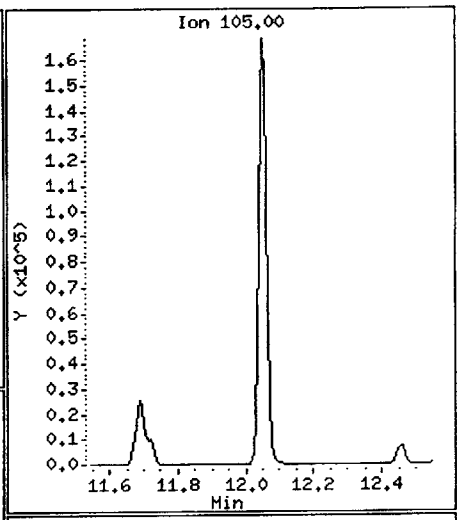
Concentration: 21.2 ug/l

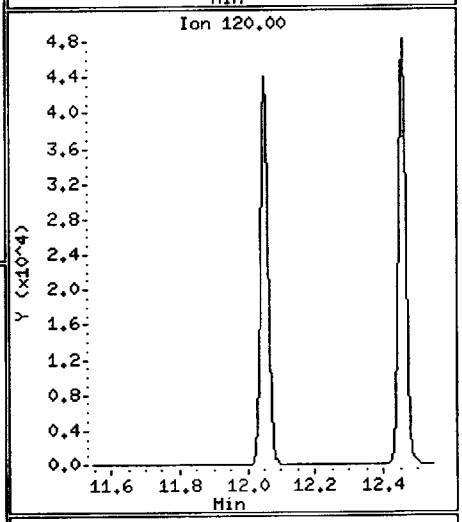


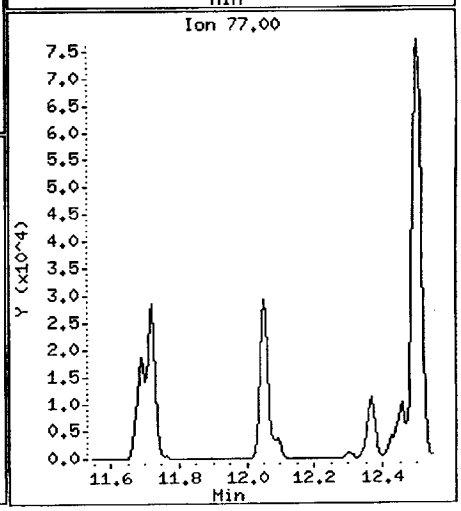












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10211.D

Date : 25-SEP-2002 08:01

Client ID: 11Q30228MSD

Instrument: vms03.i

Sample Info: 220910211;2209102;1;

Purge Volume: 5.0

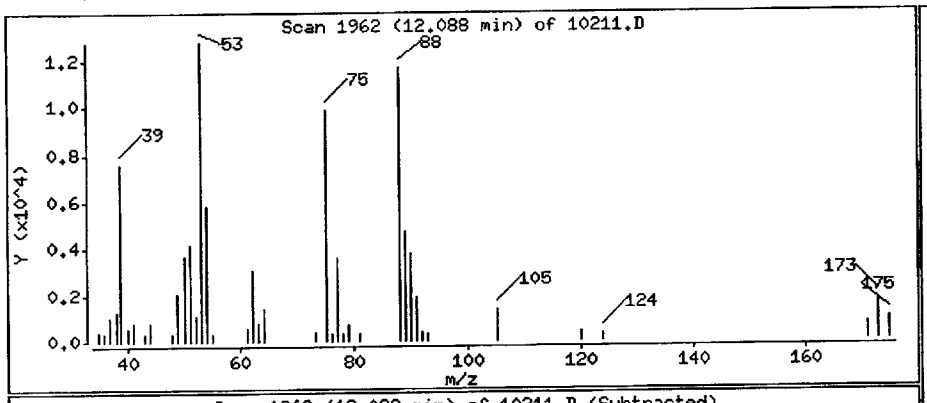
Operator:

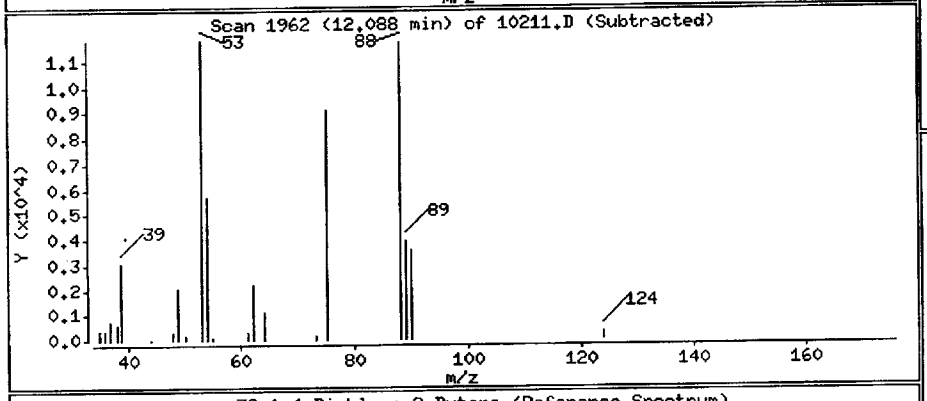
Column phase: DB-624

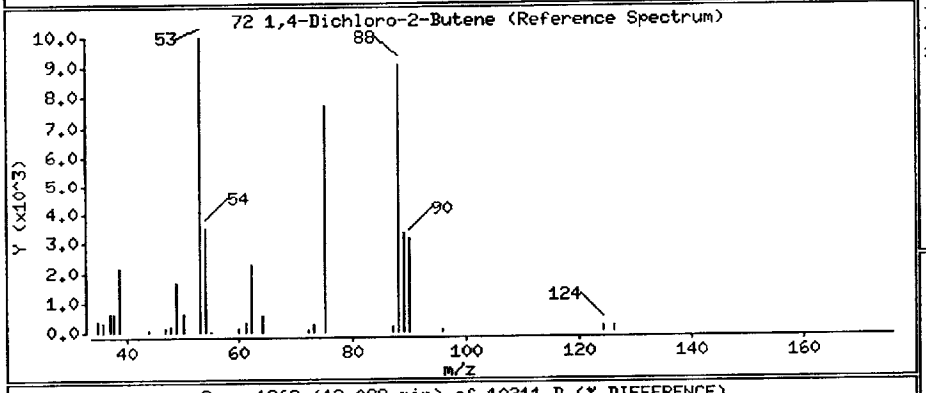
Column diameter: 0.18

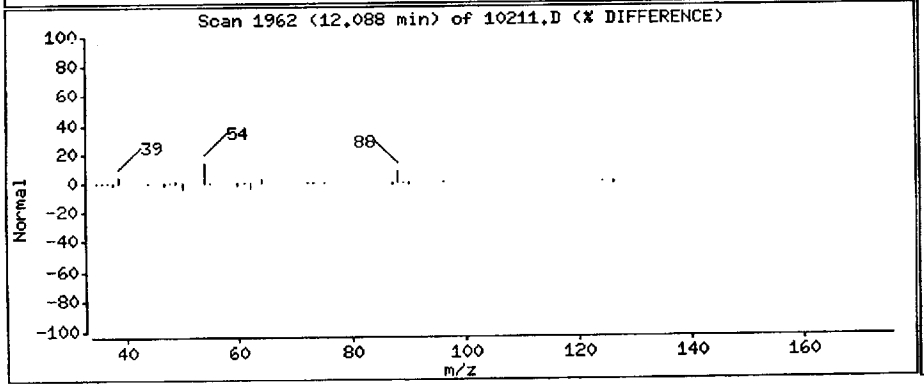
72 1,4-Dichloro-2-Butene

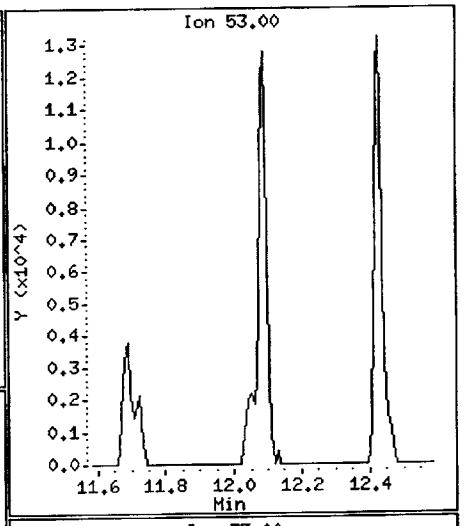
Concentration: 38.3 ug/l

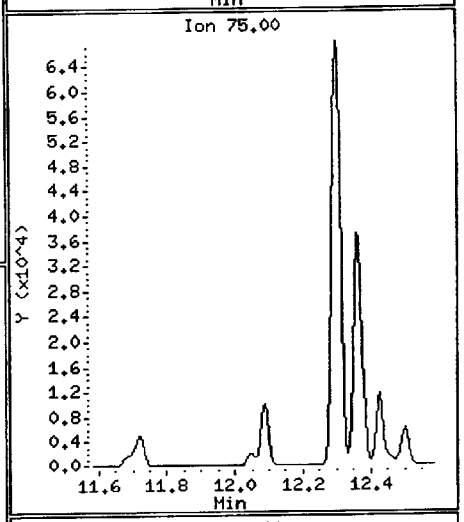


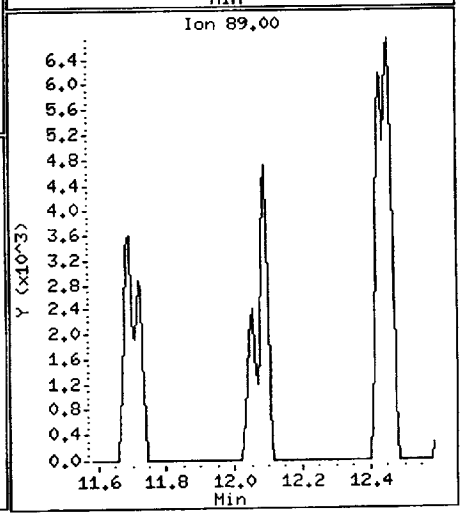












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10211.D

Date : 25-SEP-2002 08:01

Client ID: 11Q30228MSD

Instrument: vms03.i

Sample Info: 220910211;2209102;1;

Purge Volume: 5.0

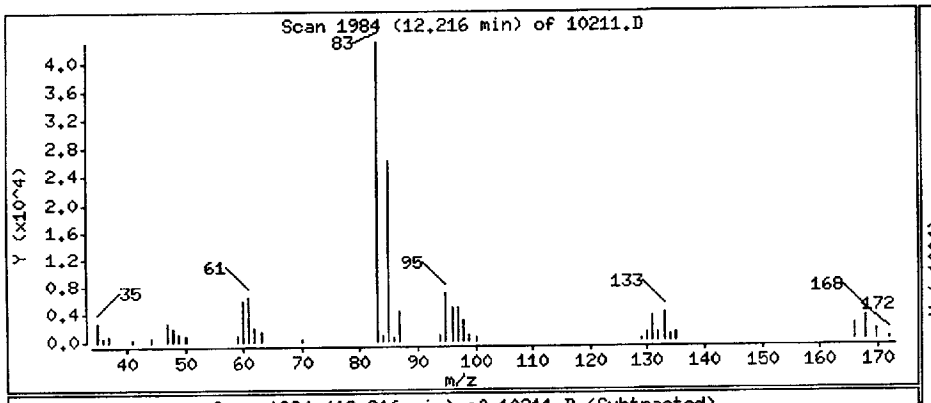
Operator:

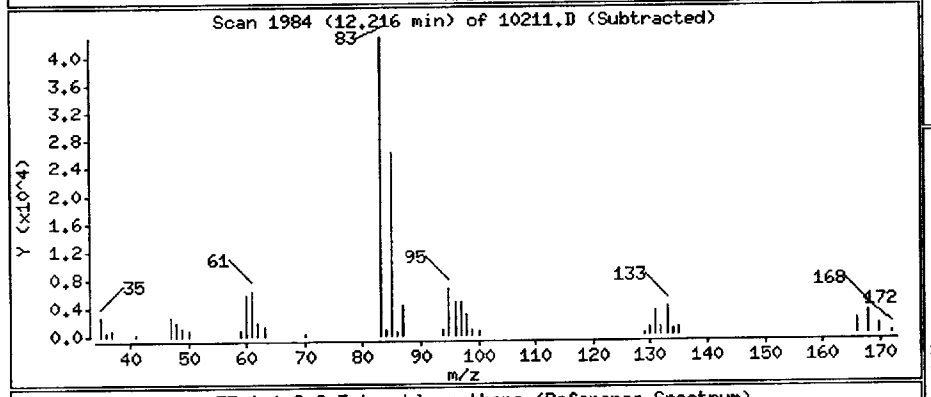
Column phase: DB-624

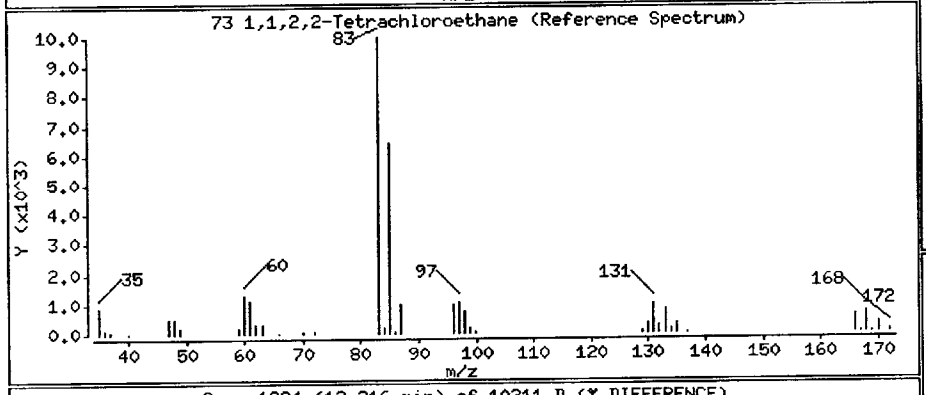
Column diameter: 0.18

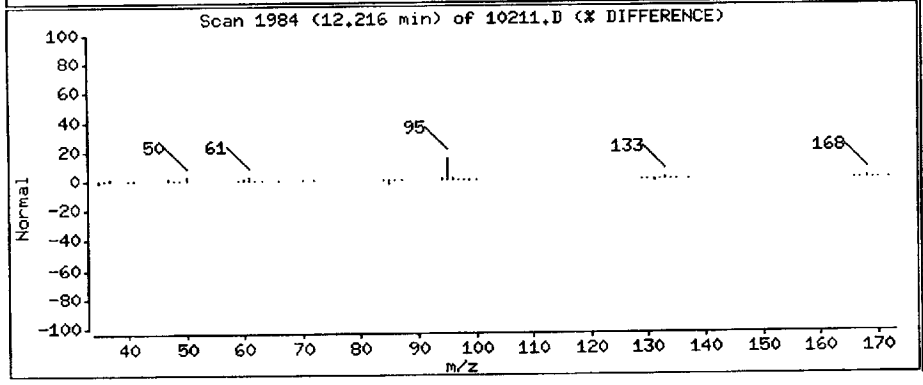
73 1,1,2,2-Tetrachloroethane

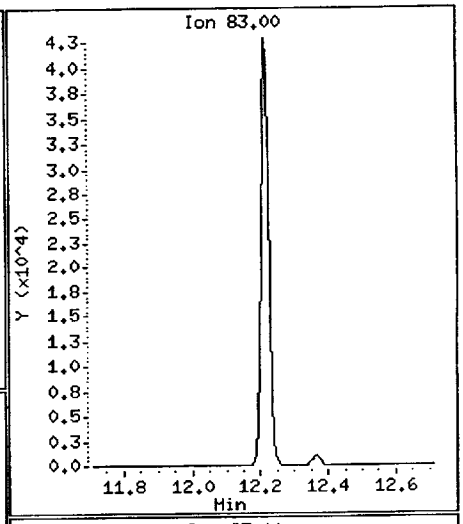
Concentration: 21.1 ug/l

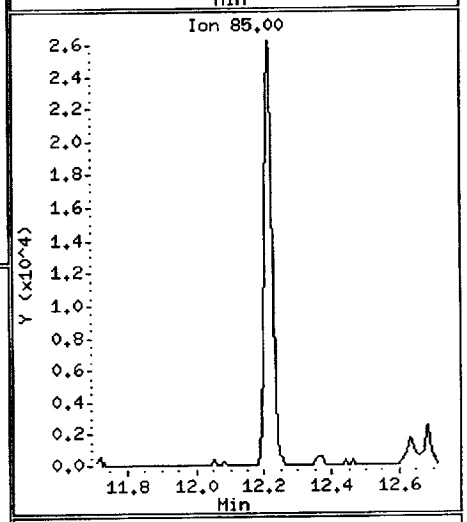


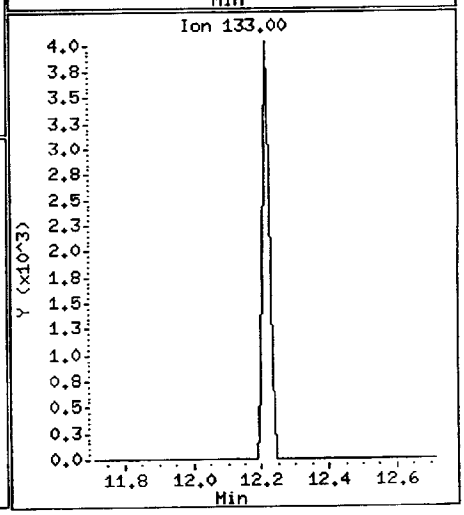












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10211.D

Date : 25-SEP-2002 08:01

Client ID: 11Q30228MSD

Instrument: vms03.i

Sample Info: 220910211;2209102;1;

Purge Volume: 5.0

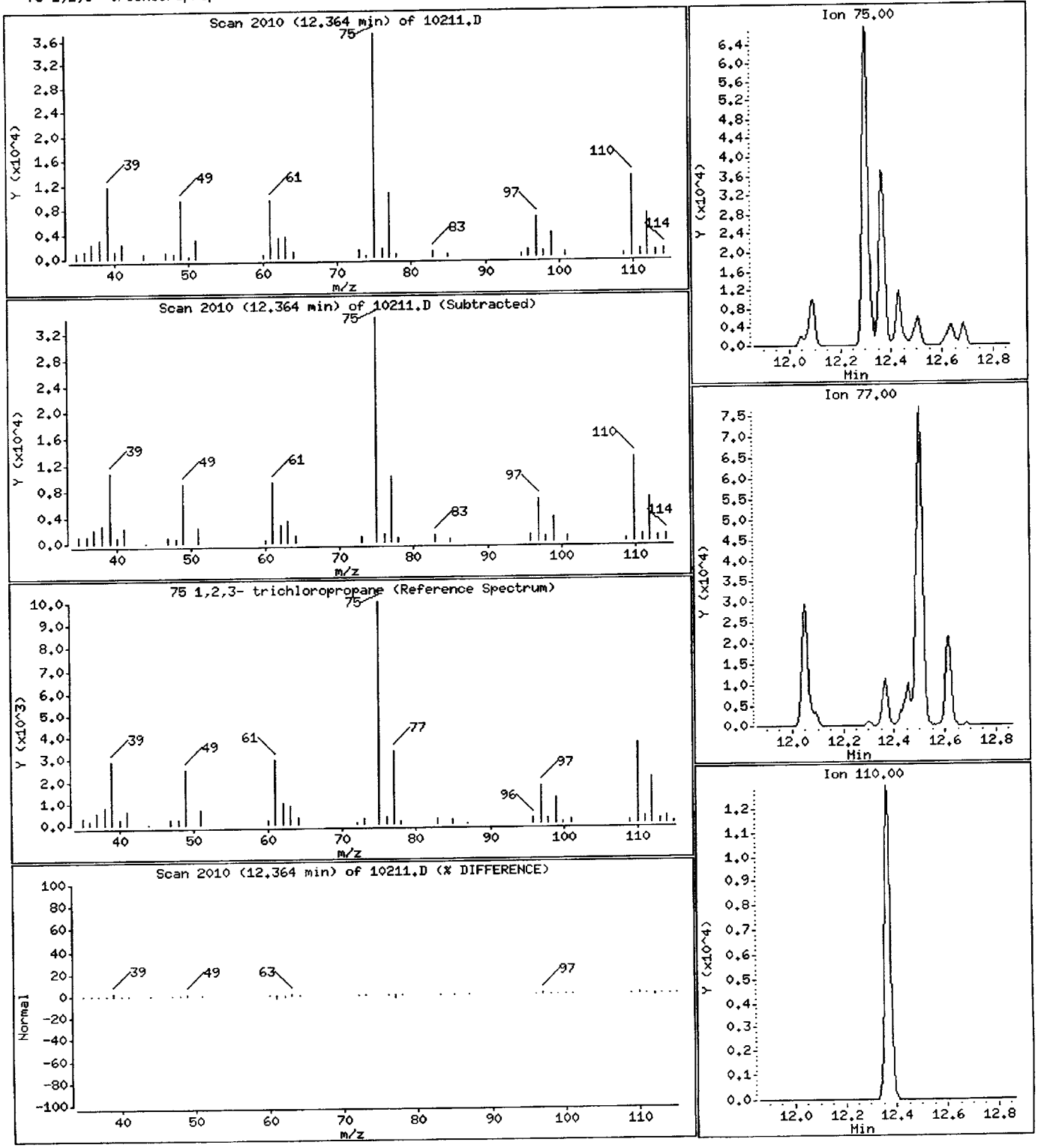
Operator:

Column phase: DB-624

Column diameter: 0.18

75 1,2,3- trichloropropane

Concentration: 21.3 ug/l



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Date : 25-SEP-2002 08:01

Client ID: 11Q30228MSD

Instrument: vms03.i

Sample Info: 220910211;2209102;1;

Purge Volume: 5.0

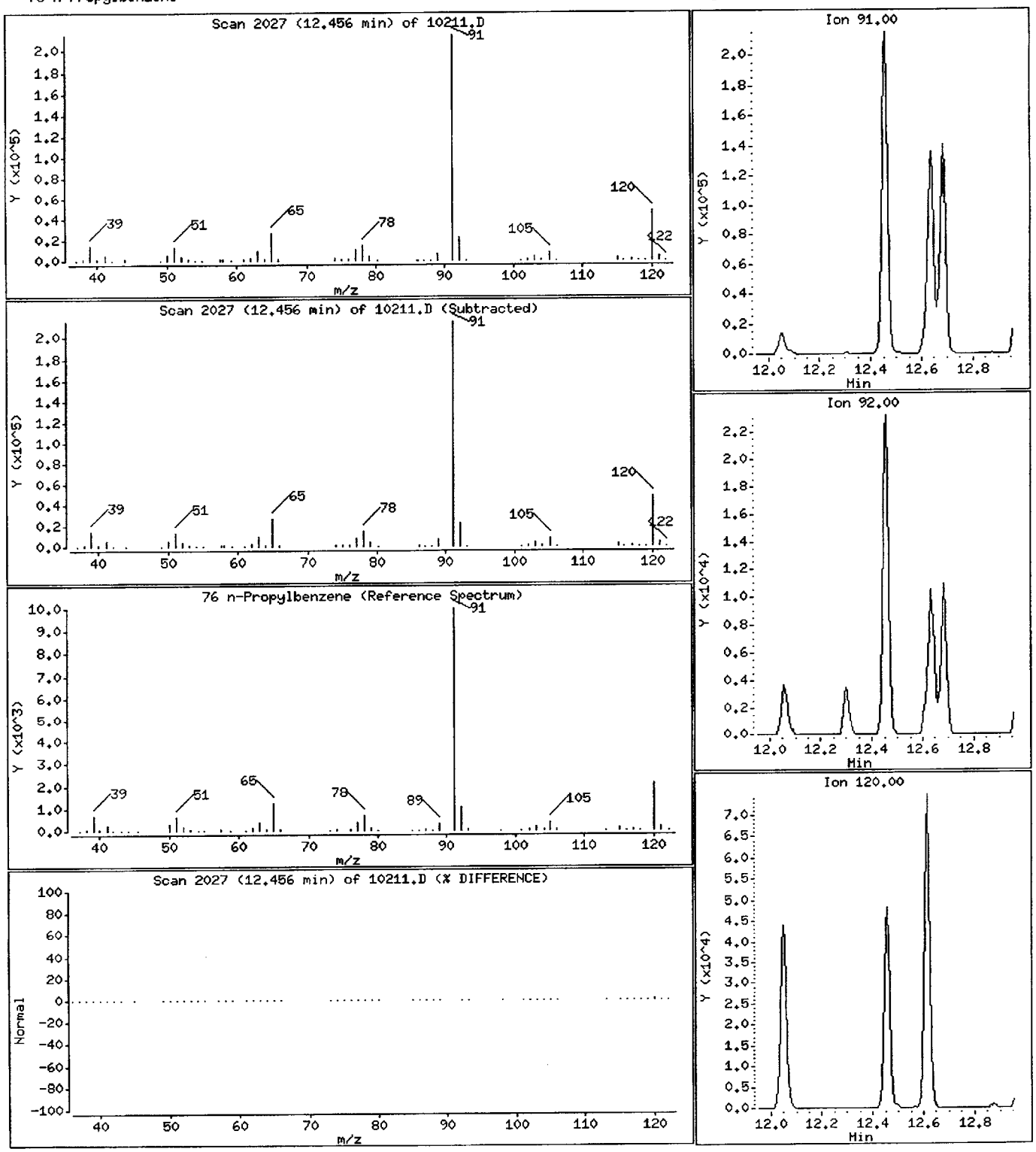
Operator:

Column phase: DB-624

Column diameter: 0.18

76 n-Propylbenzene

Concentration: 21.4 ug/l



Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10211.D

Date : 25-SEP-2002 08:01

Client ID: 11Q30228HSD

Instrument: vms03.i

Sample Info: 220910211;2209102;1;

Purge Volume: 5.0

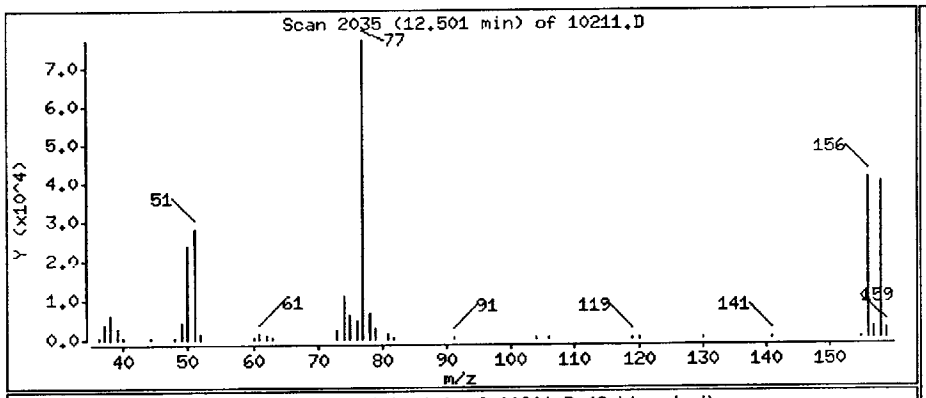
Operator:

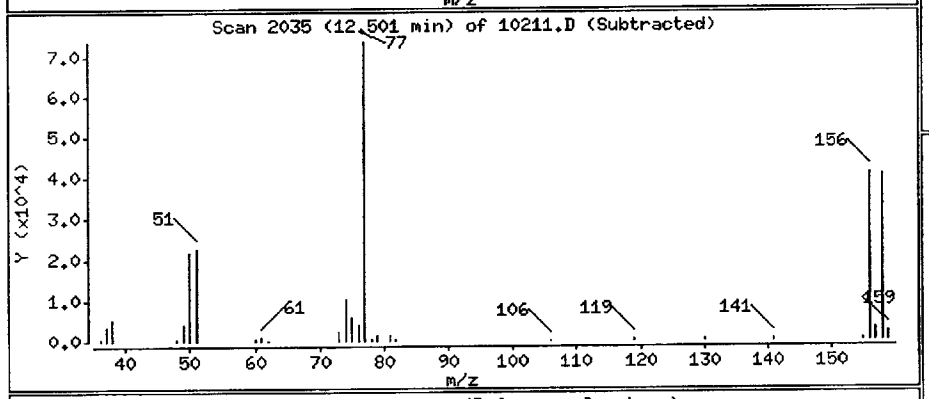
Column phase: DB-624

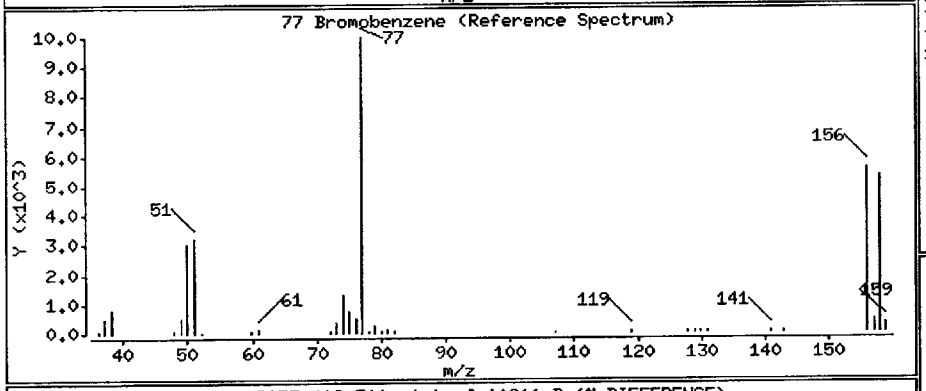
Column diameter: 0.18

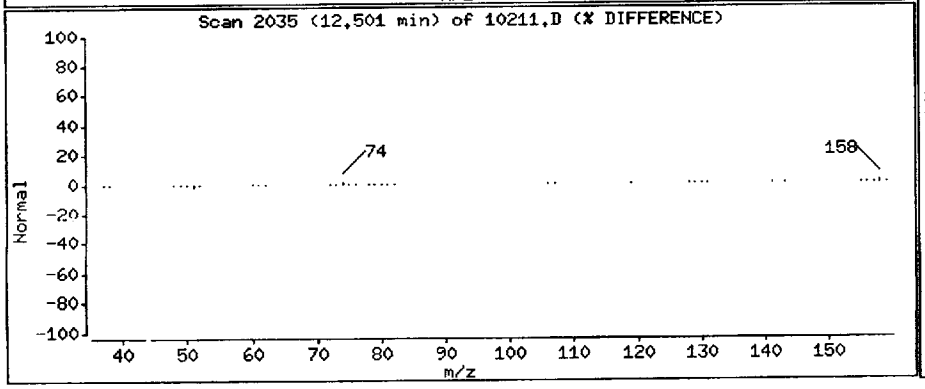
77 Bromobenzene

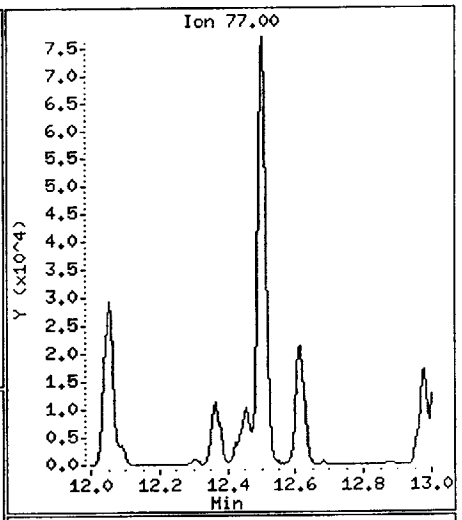
Concentration: 21.0 ug/l

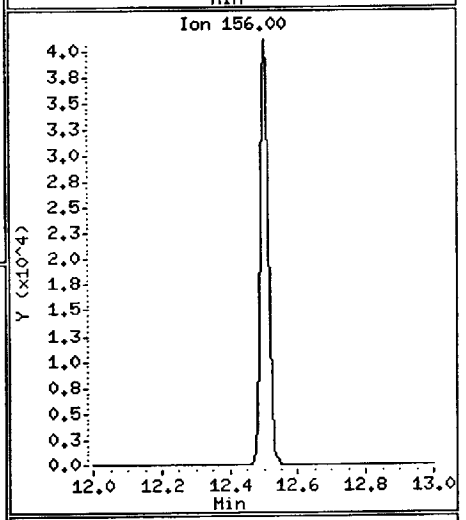


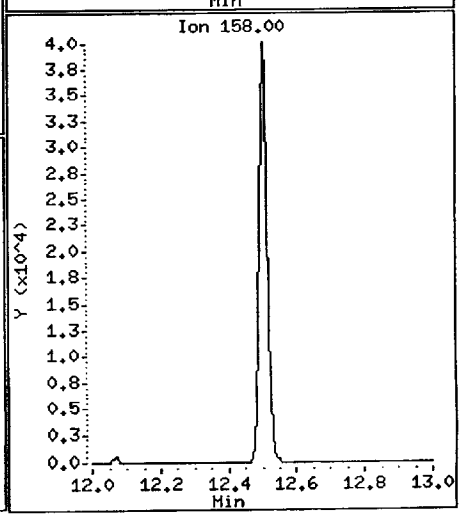












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10211.D

Date : 25-SEP-2002 08:01

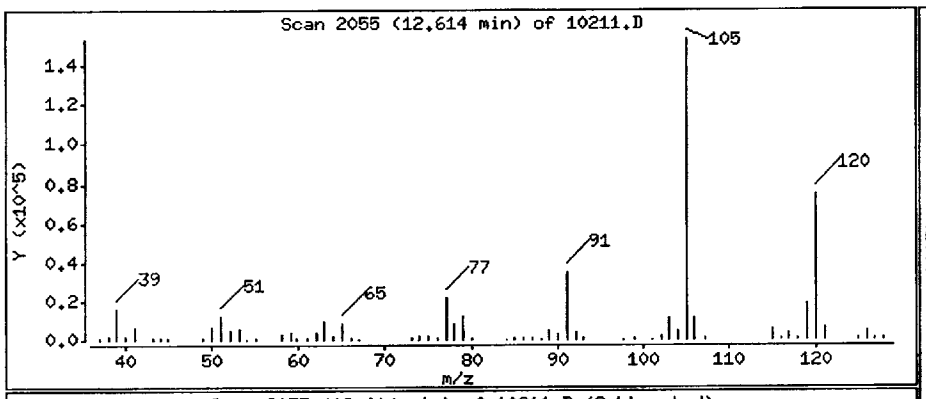
Client ID: 11Q30228MSD | Instrument: vms03.i

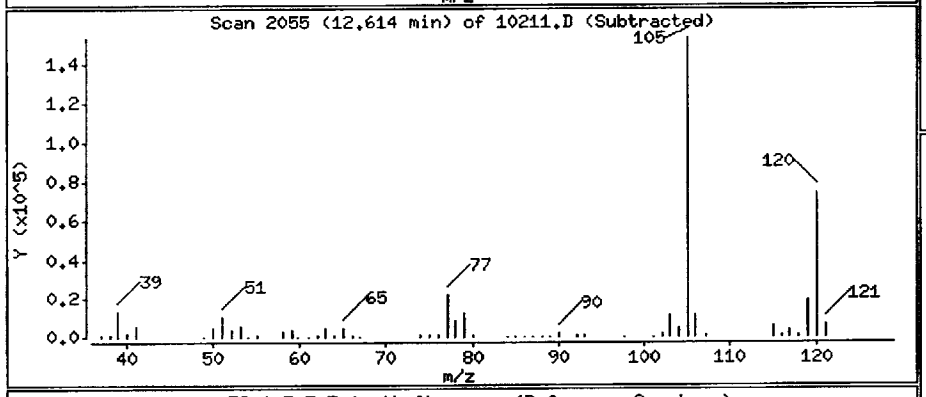
Sample Info: 220910211;2209102;1;

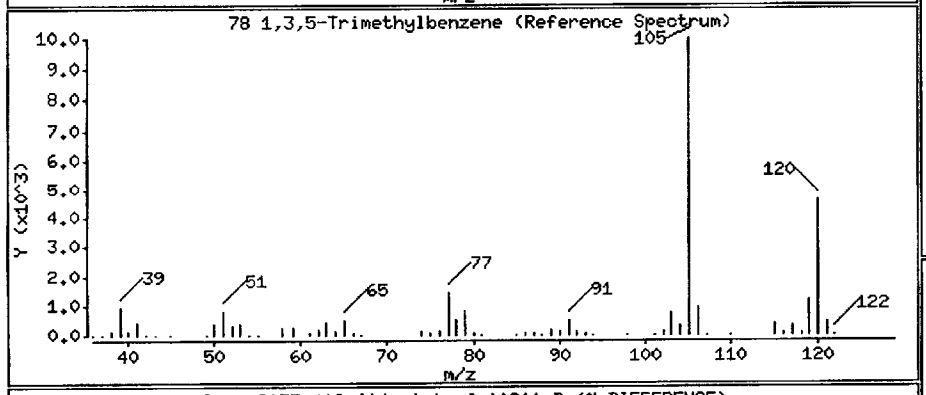
Purge Volume: 5.0 | Operator:

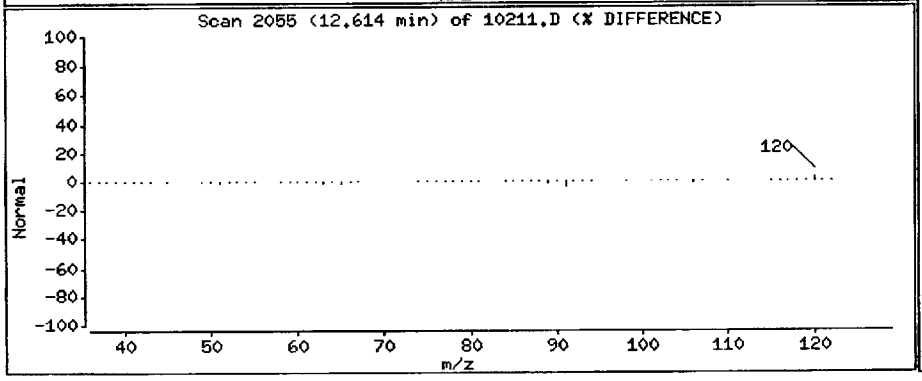
Column phase: DB-624 | Column diameter: 0.18

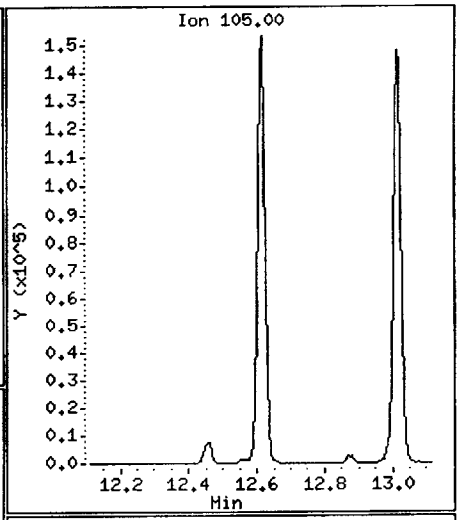
78 1,3,5-Trimethylbenzene | Concentration: 21.2 ug/l

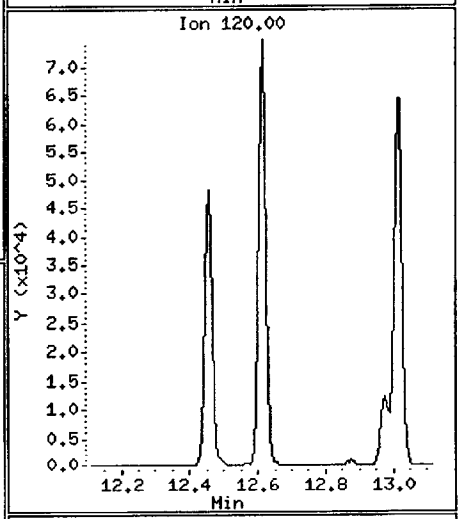


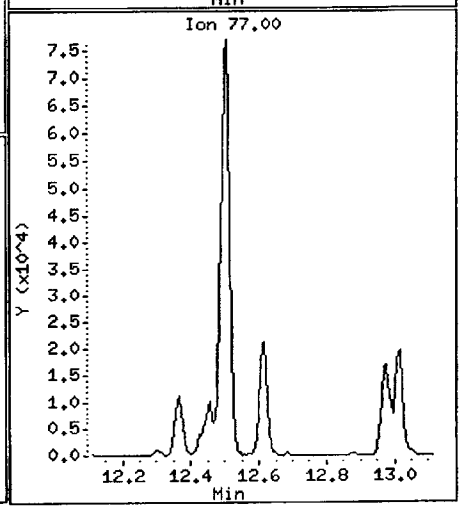












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10211.D

Date : 25-SEP-2002 08:01

Client ID: 11Q30228MSD

Instrument: vms03.i

Sample Info: 220910211;2209102;1;

Purge Volume: 5.0

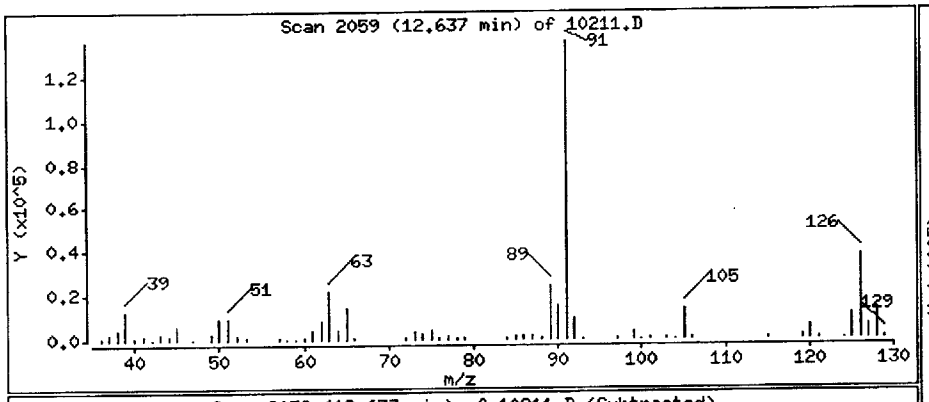
Operator:

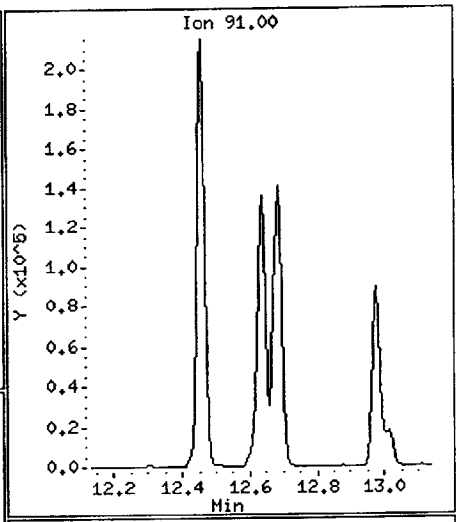
Column phase: DB-624

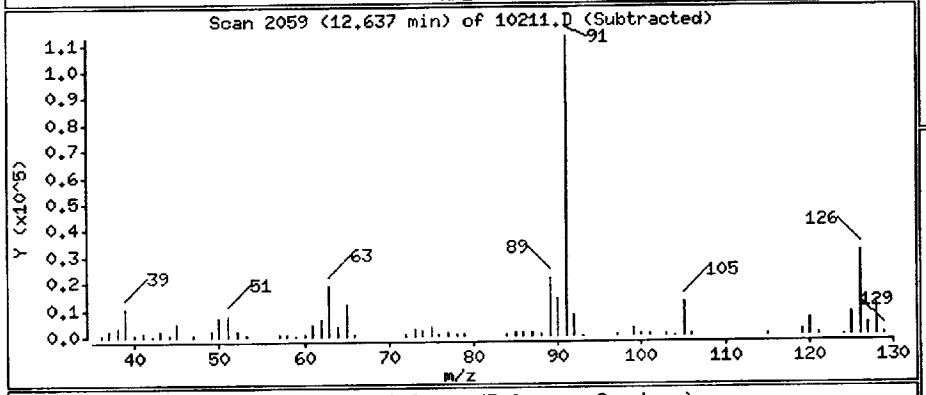
Column diameter: 0.18

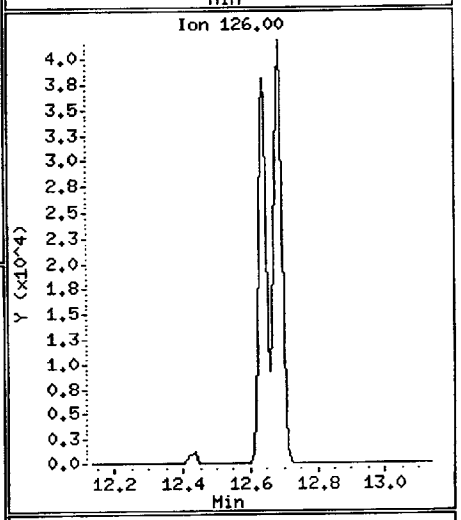
79 2-Chlorotoluene

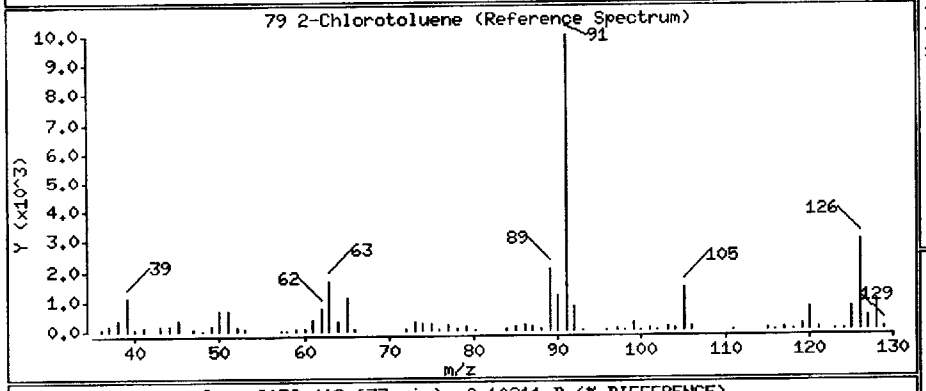
Concentration: 20.8 ug/l

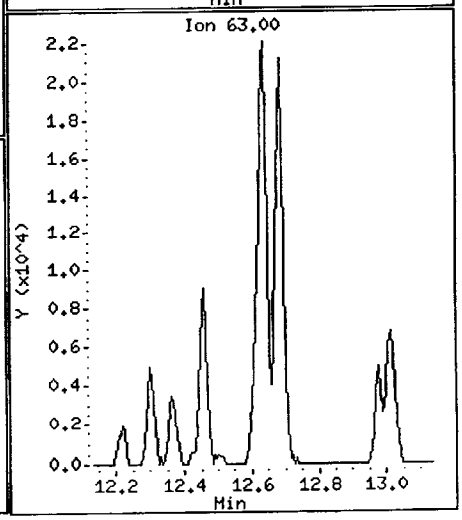


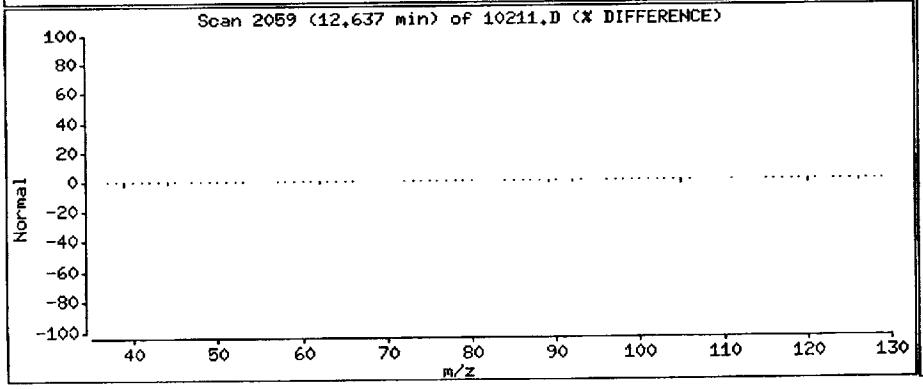












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10211.D

Date : 25-SEP-2002 08:01

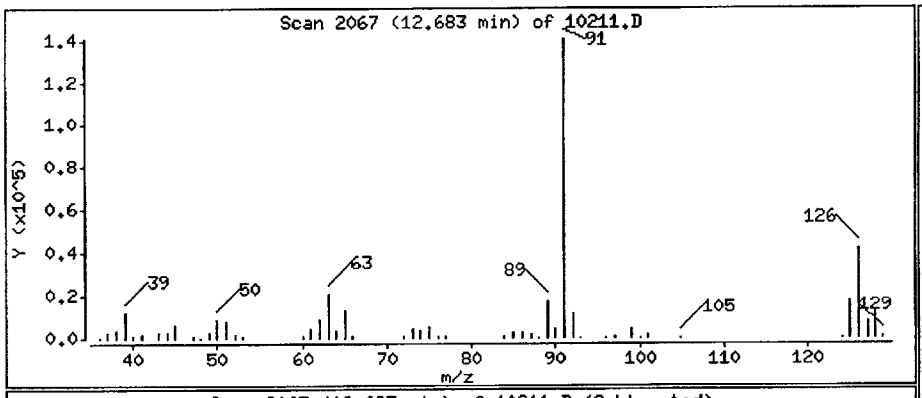
Client ID: 11Q30228MSD | Instrument: vms03.i

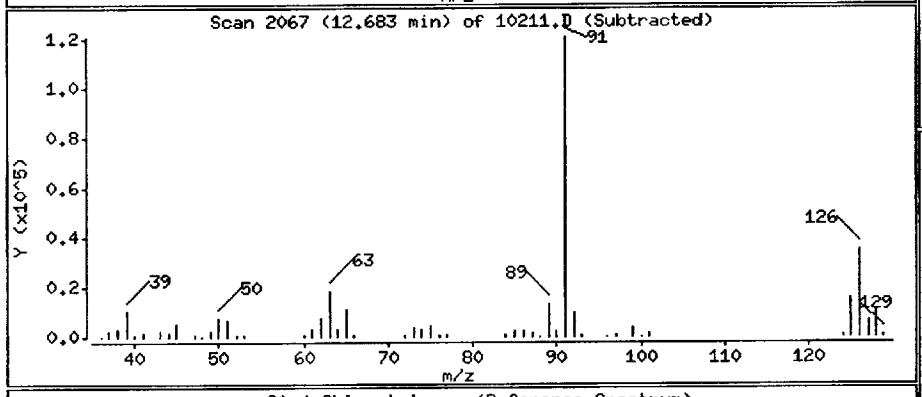
Sample Info: 220910211;2209102;1;

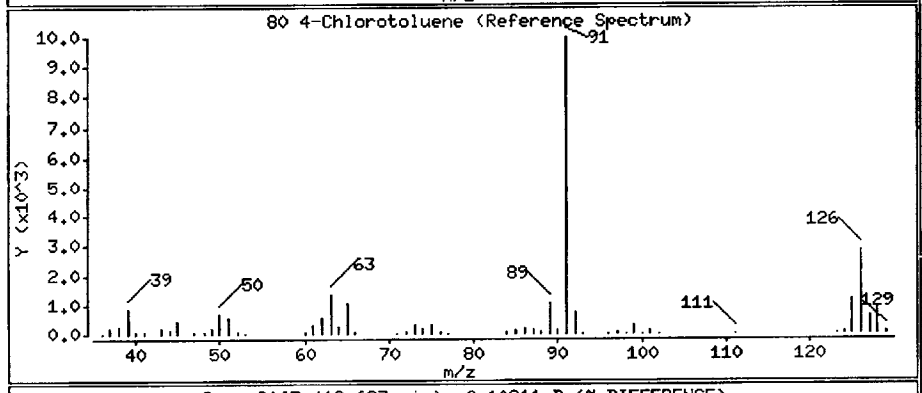
Purge Volume: 5.0 | Operator:

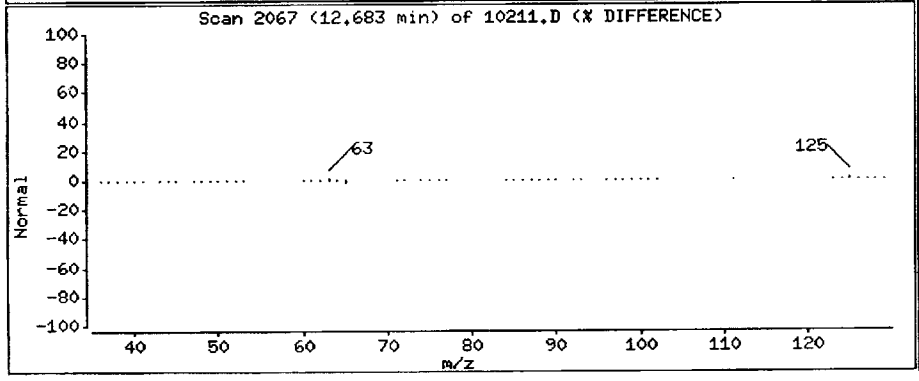
Column phase: DB-624 | Column diameter: 0.18

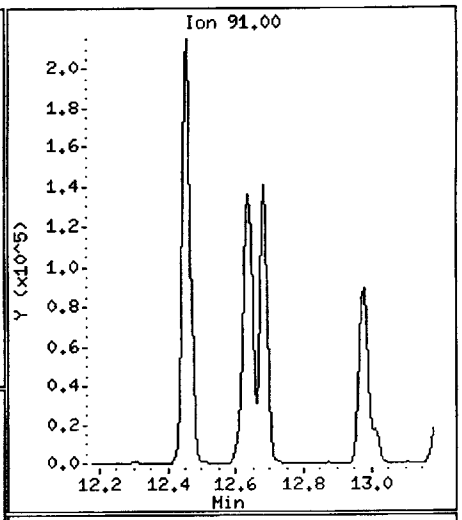
80 4-Chlorotoluene | Concentration: 21.5 ug/l

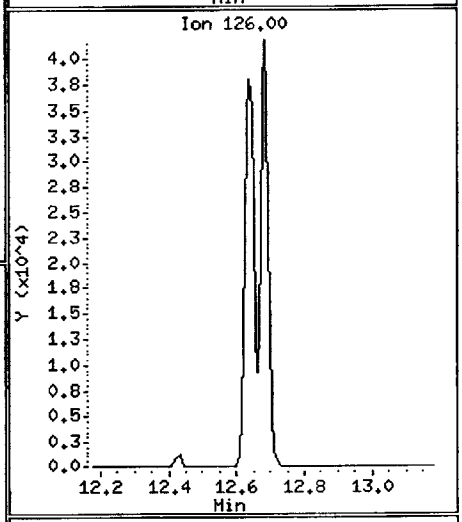


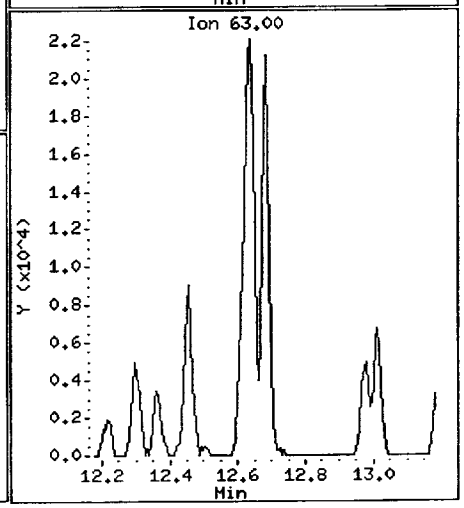












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10211.D

Date : 25-SEP-2002 08:01

Client ID: 11Q30228MSD

Instrument: vms03.i

Sample Info: 220910211;2209102;1;

Purge Volume: 5.0

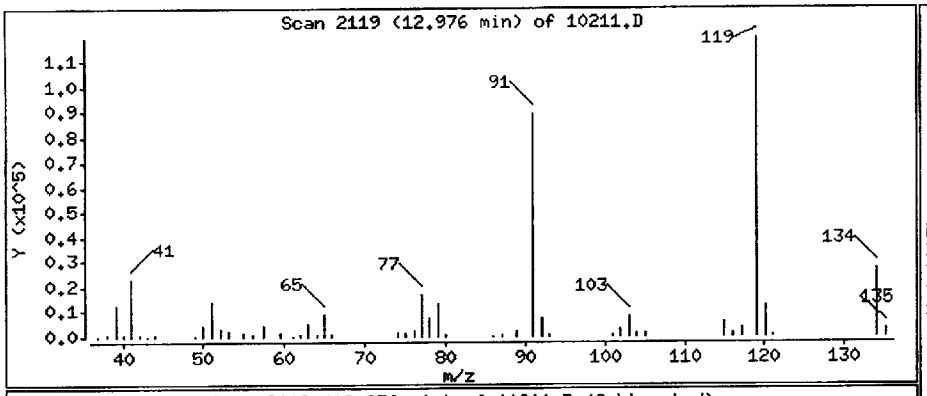
Operator:

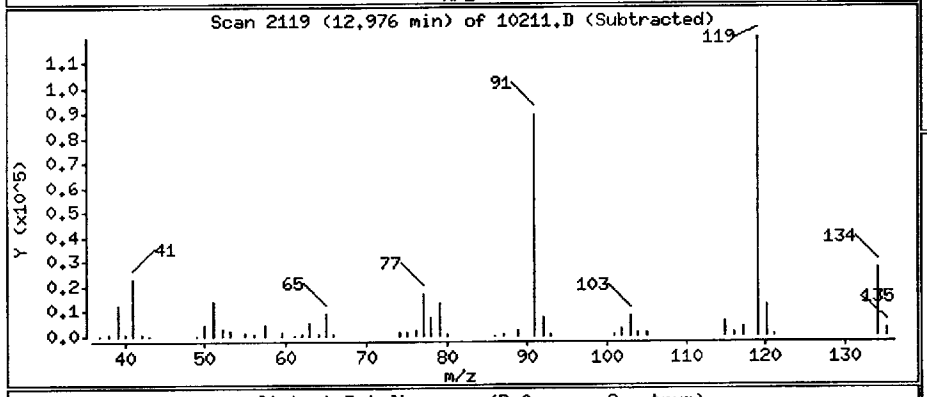
Column phase: DB-624

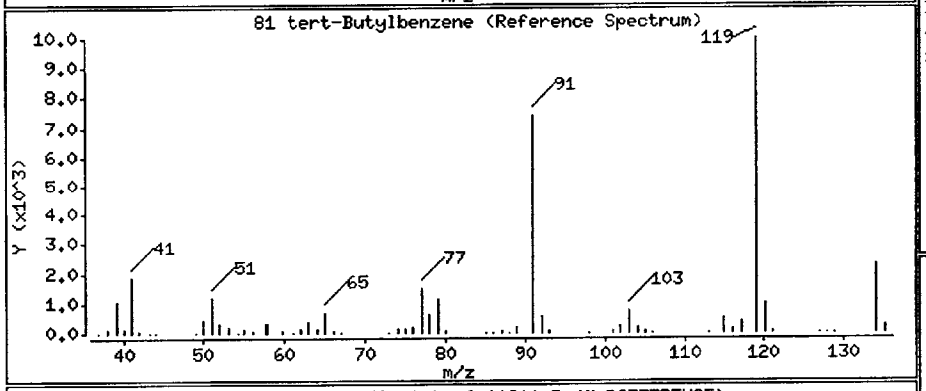
Column diameter: 0.18

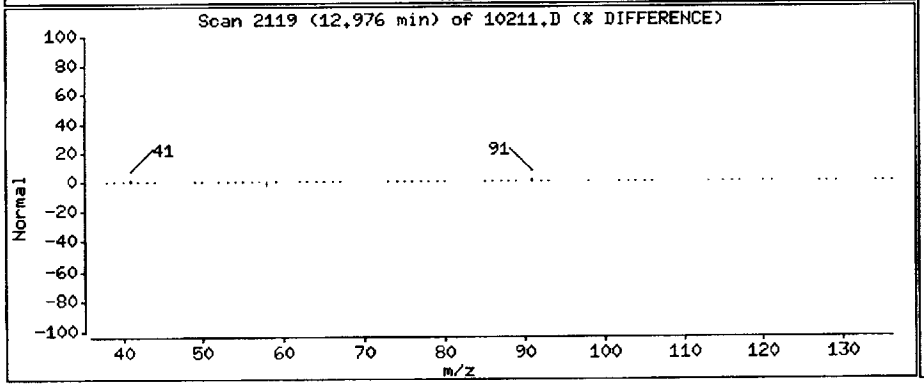
81 tert-Butylbenzene

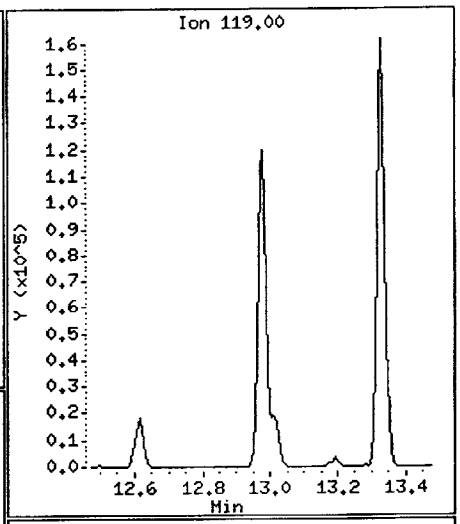
Concentration: 21.3 ug/l

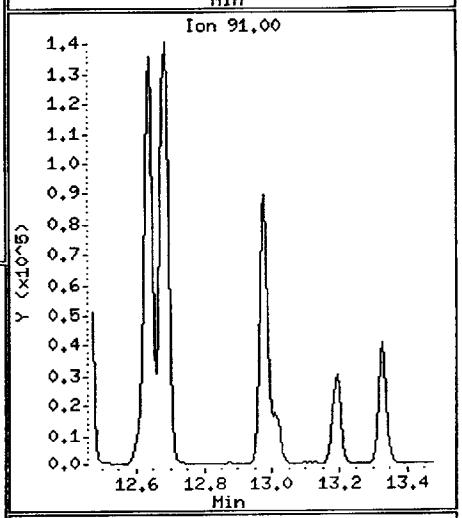


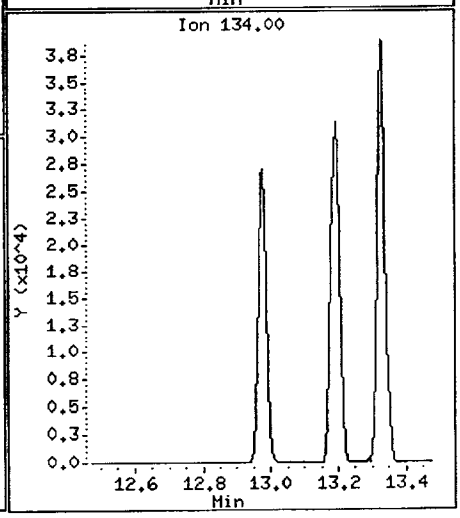












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10211.D

Date : 25-SEP-2002 08:01

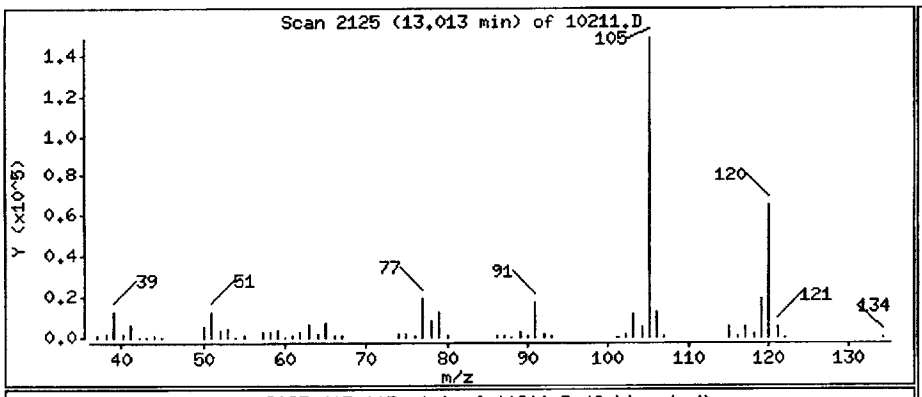
Client ID: 11Q30228MSD | Instrument: vms03.i

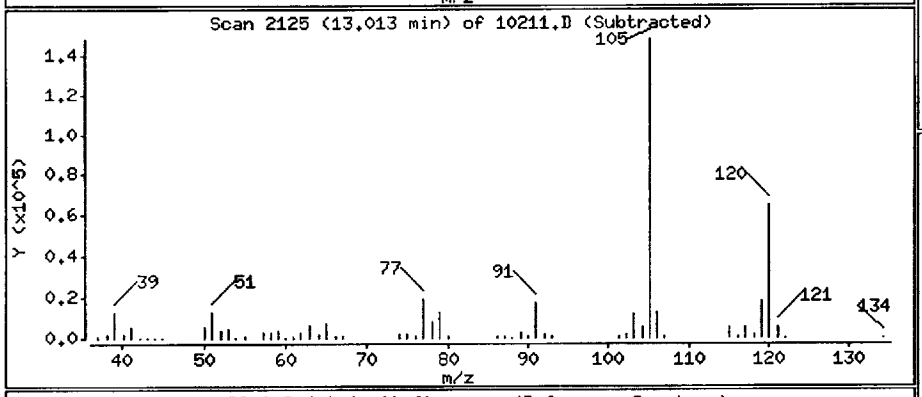
Sample Info: 220910211;2209102;1;

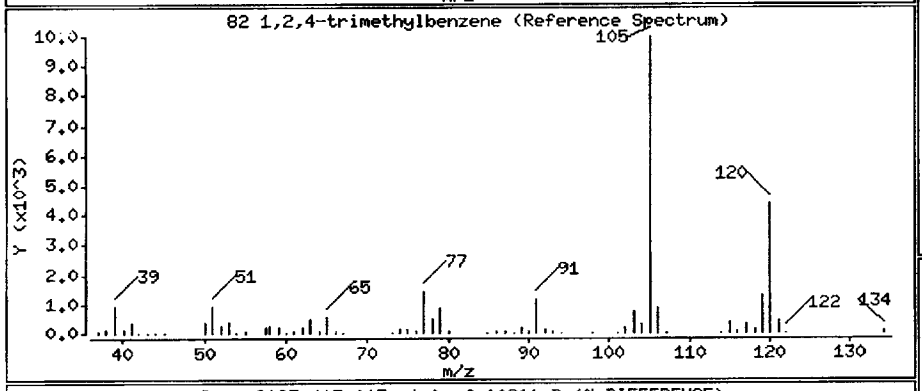
Purge Volume: 5.0 | Operator:

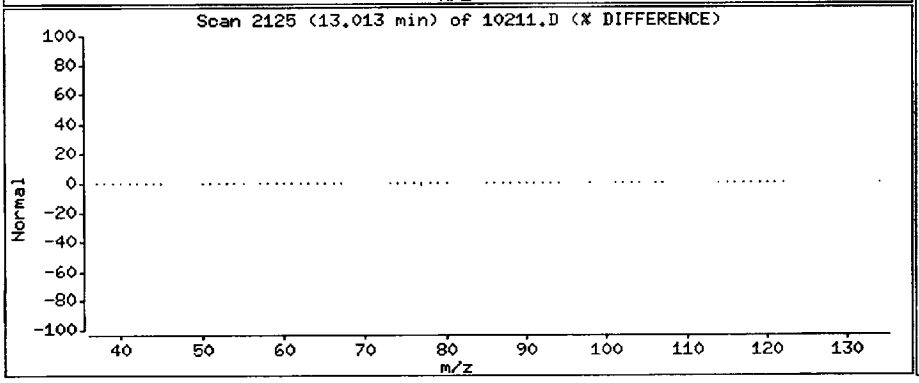
Column phase: DB-624 | Column diameter: 0.18

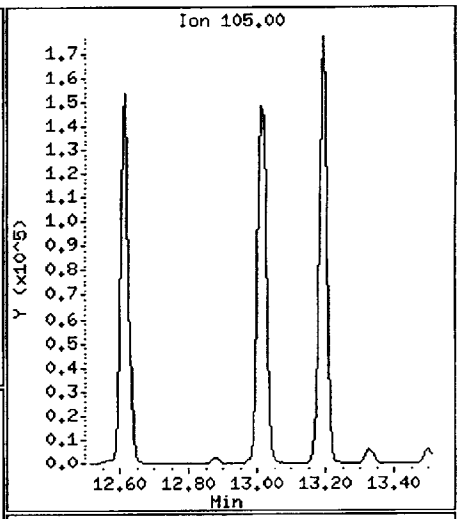
82 1,2,4-trimethylbenzene | Concentration: 21.7 ug/l

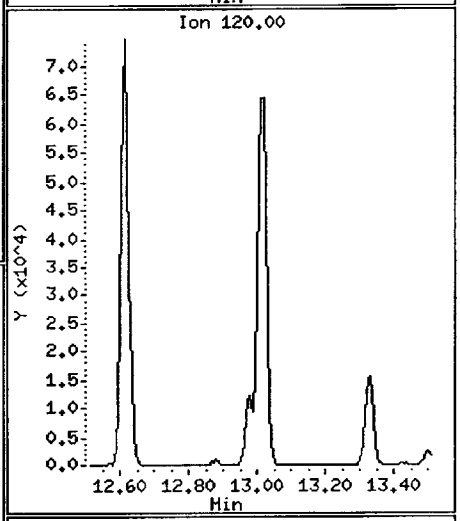


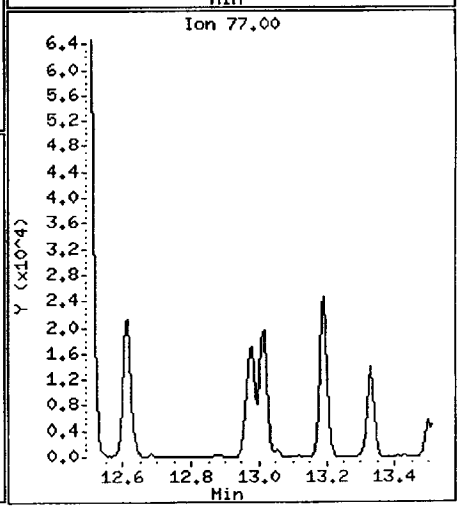












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10211.D

Date : 25-SEP-2002 08:01

Client ID: 11Q30228MSD

Instrument: vms03.i

Sample Info: 220910211;2209102;1;

Purge Volume: 5.0

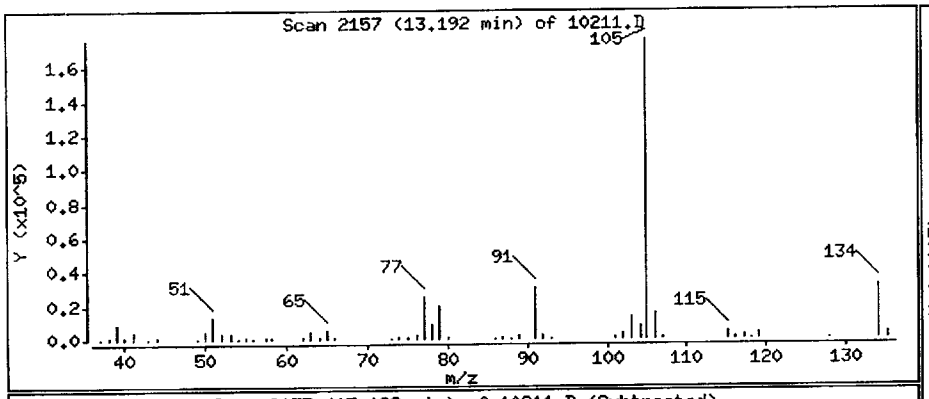
Operator:

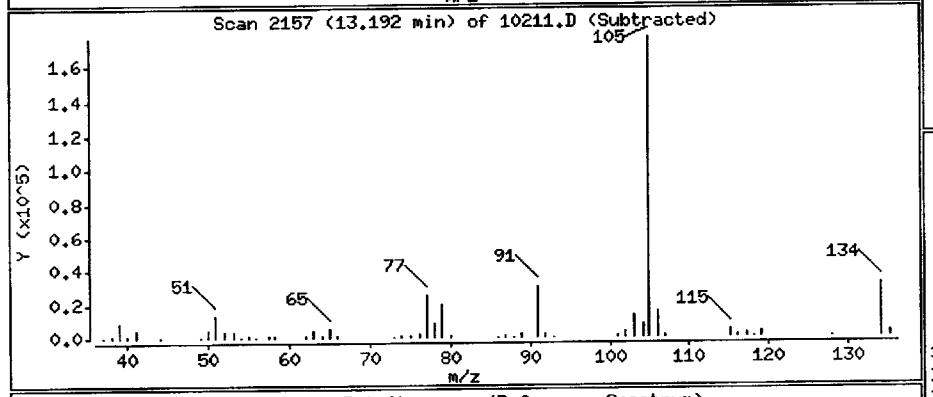
Column phase: DB-624

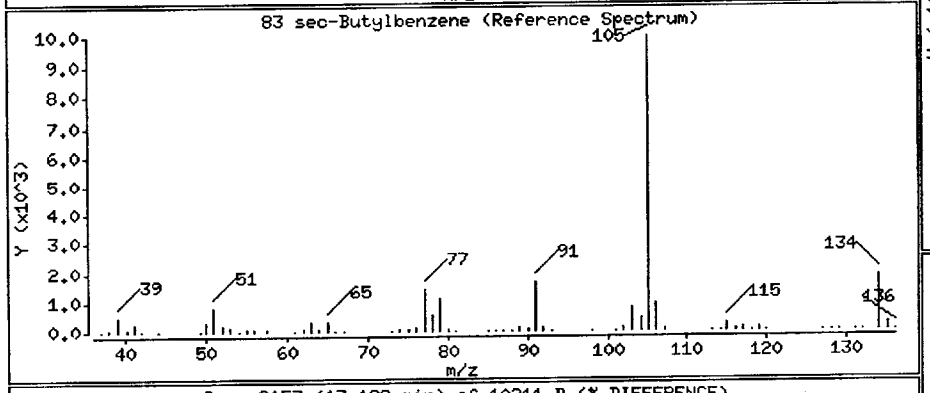
Column diameter: 0.18

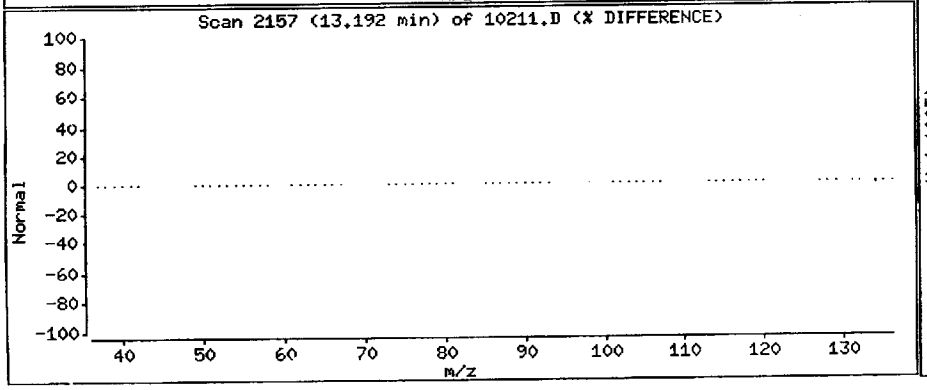
83 sec-Butylbenzene

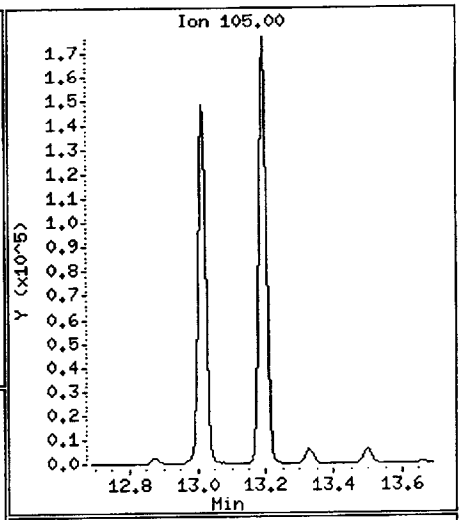
Concentration: 20.7 ug/l

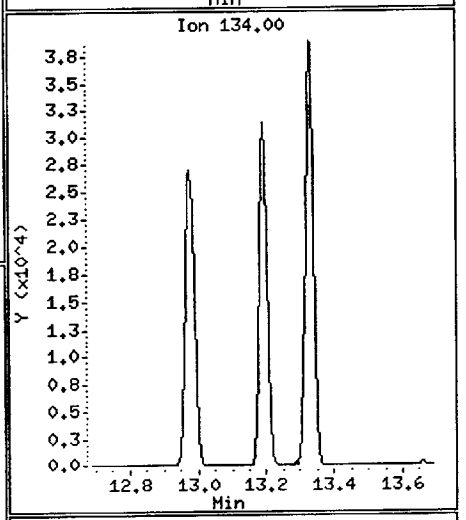


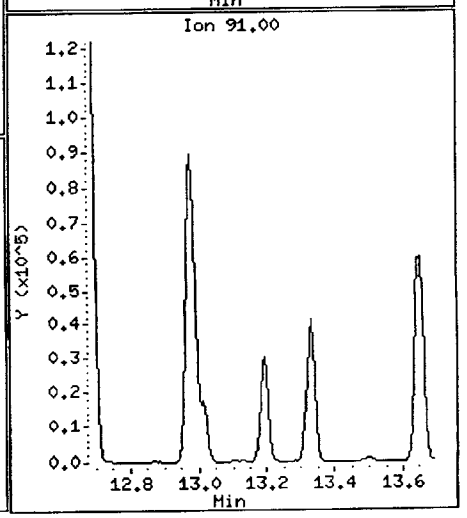












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10211.D

Date : 25-SEP-2002 08:01

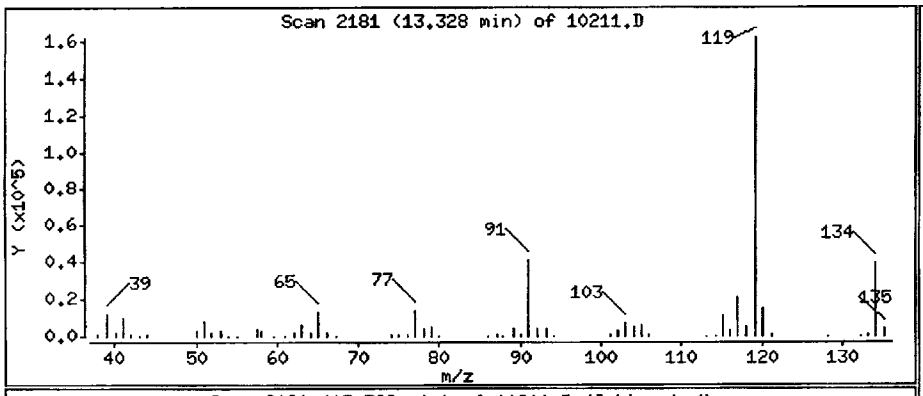
Client ID: 11Q30228MSD | Instrument: vms03.i

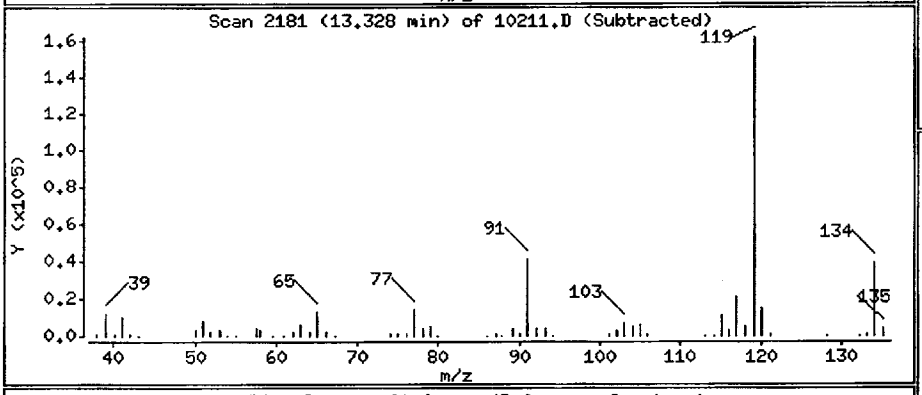
Sample Info: 220910211;2209102;1;

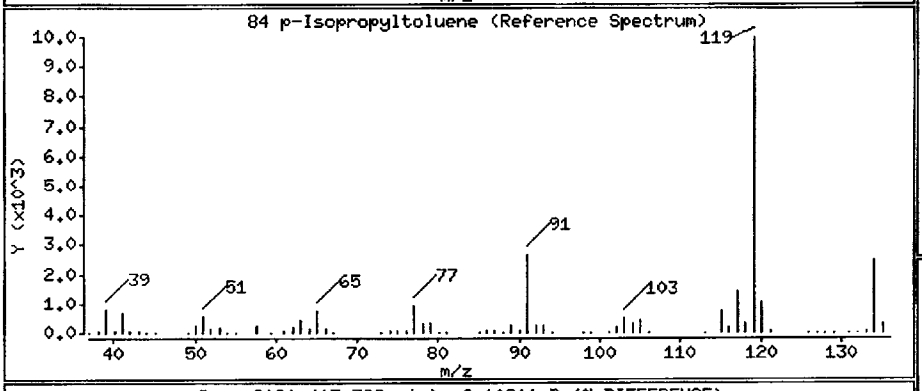
Purge Volume: 5.0 | Operator:

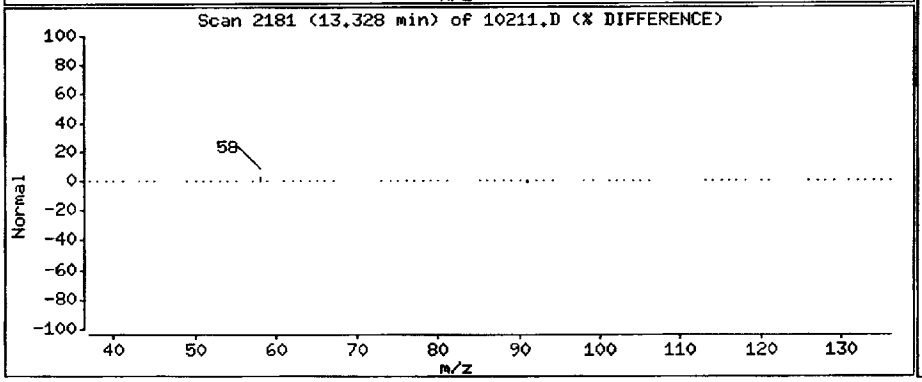
Column phase: DB-624 | Column diameter: 0.18

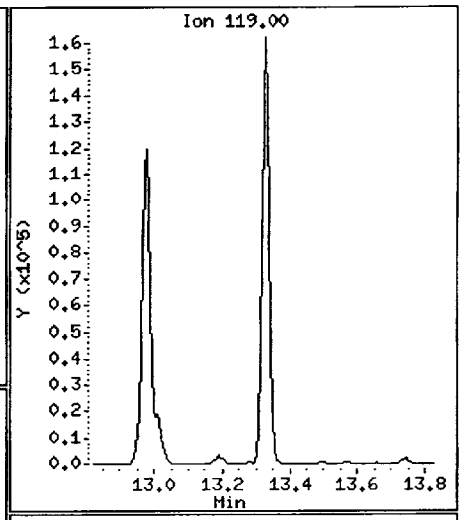
84 p-Isopropyltoluene | Concentration: 21.2 ug/l

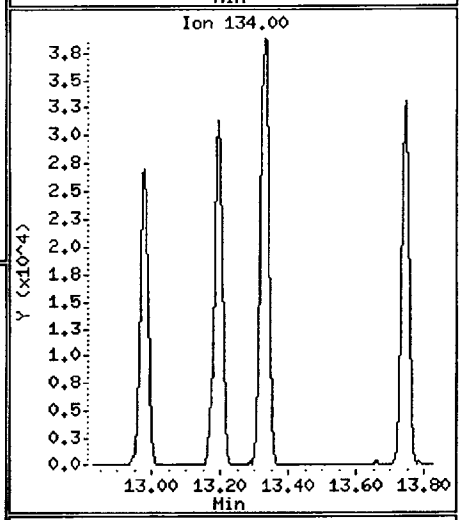


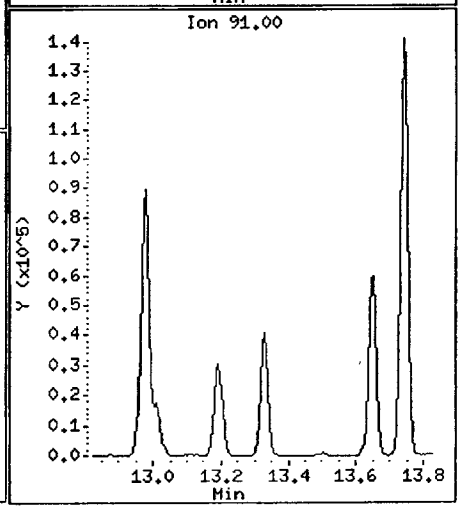












Data File: \\Vms03\dd\chem\vms03.i\H3092502.b\10211.D

Date : 25-SEP-2002 08:01

Client ID: 11Q30228MSD

Instrument: vms03.i

Sample Info: 220910211;2209102;1;

Purge Volume: 5.0

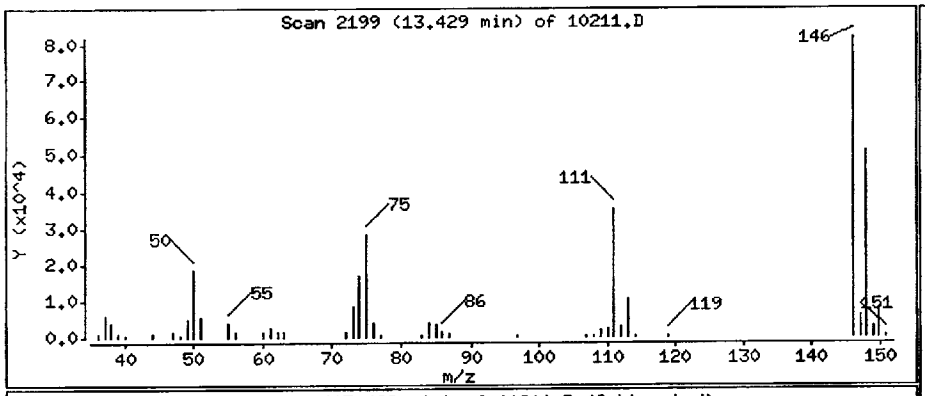
Operator:

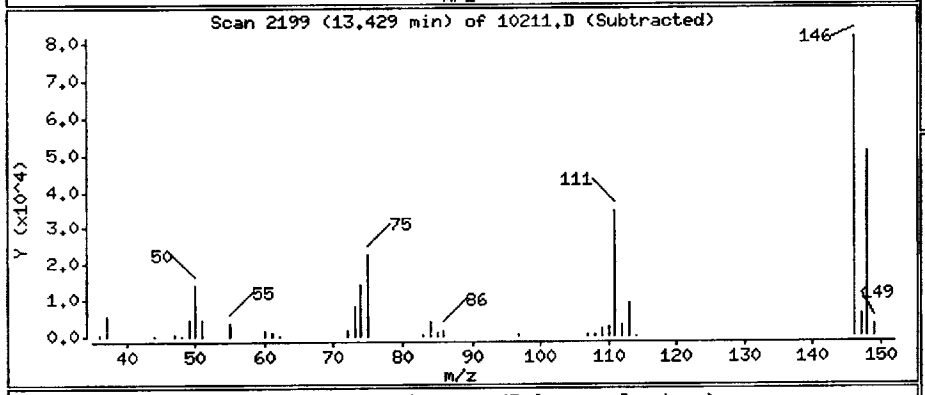
Column phase: DB-624

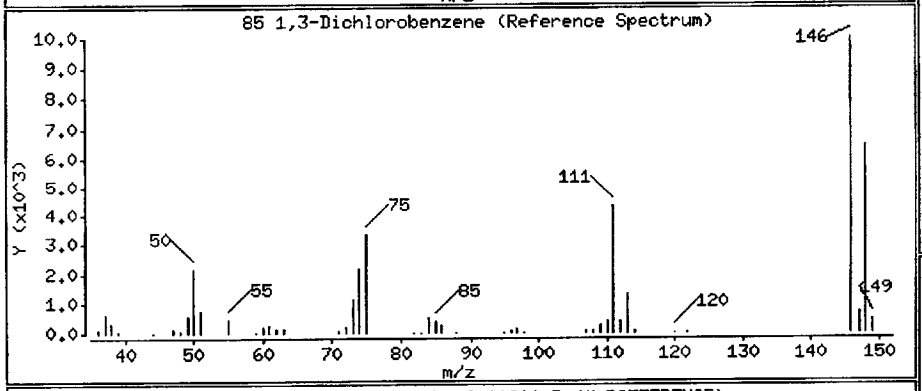
Column diameter: 0.18

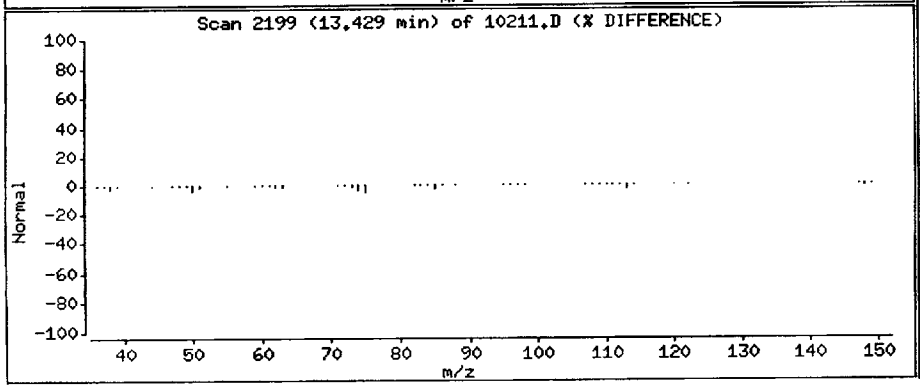
85 1,3-Dichlorobenzene

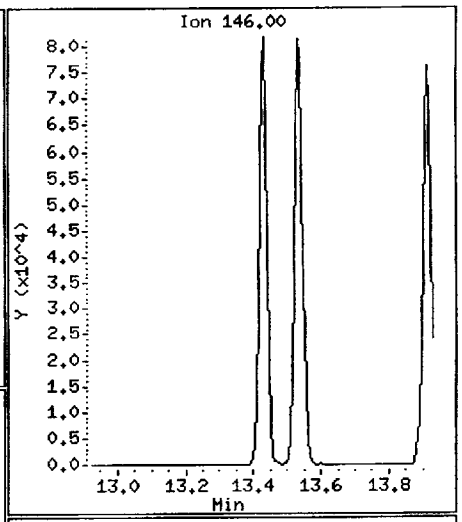
Concentration: 21.0 ug/l

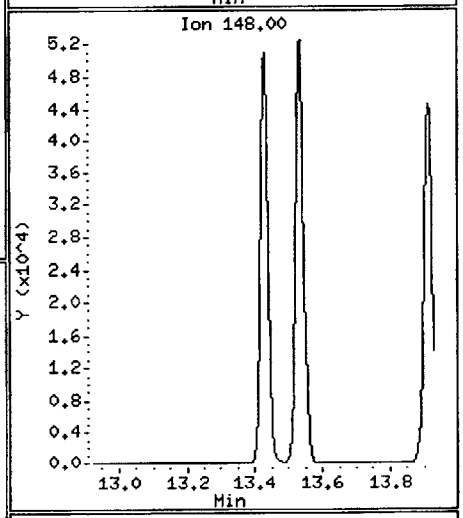


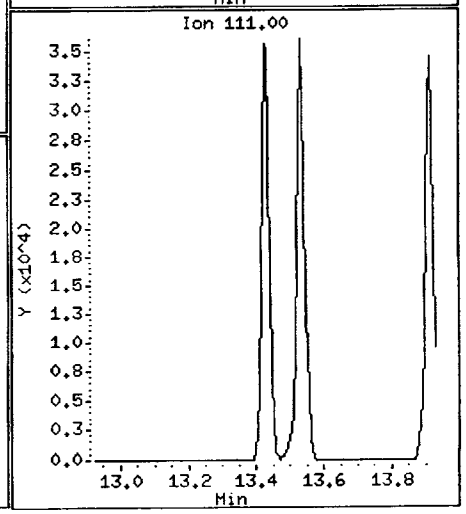












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10211.D

Date : 25-SEP-2002 08:01

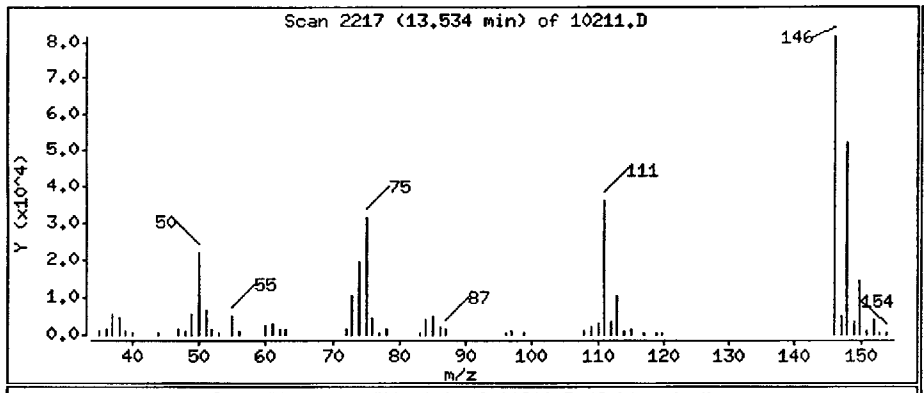
Client ID: 11Q30228MSD | Instrument: vms03.i

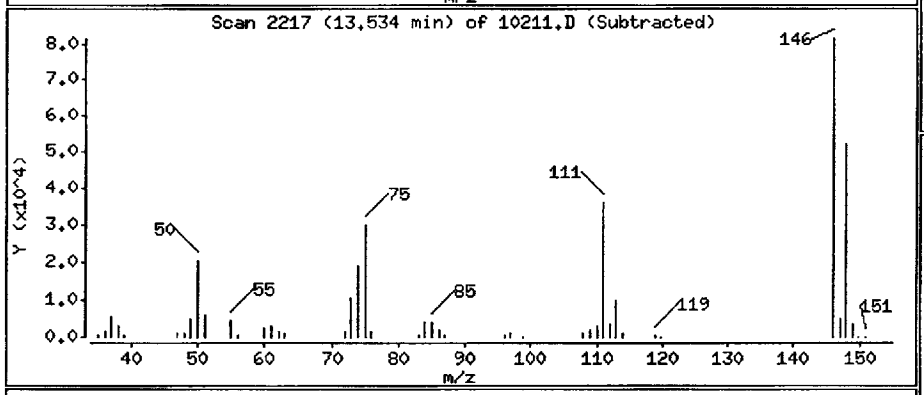
Sample Info: 220910211;2209102;1;

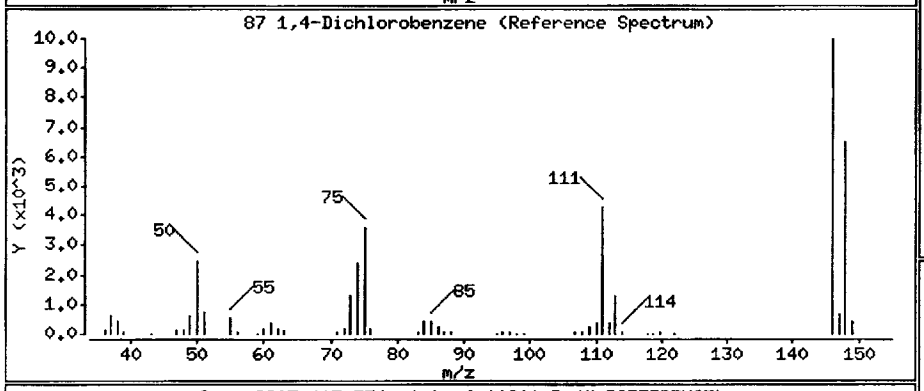
Purge Volume: 5.0 | Operator:

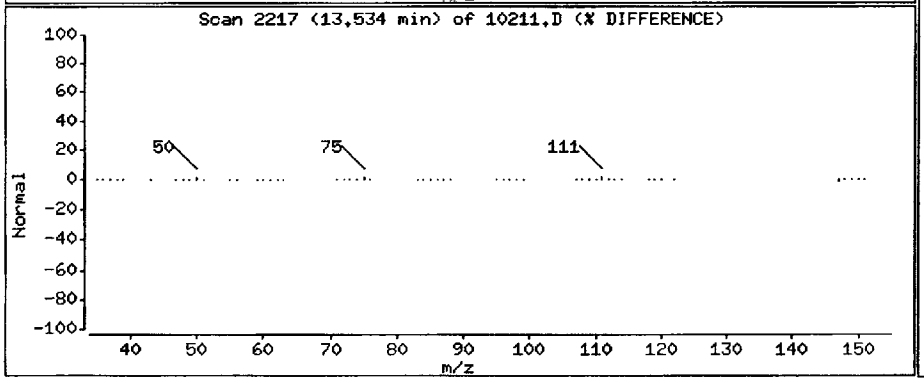
Column phase: DB-624 | Column diameter: 0.18

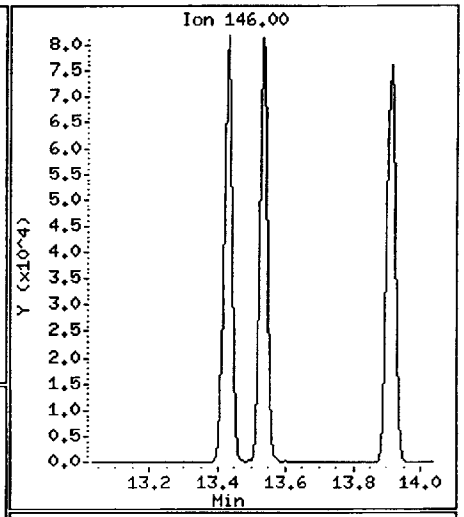
87 1,4-Dichlorobenzene | Concentration: 20.8 ug/l

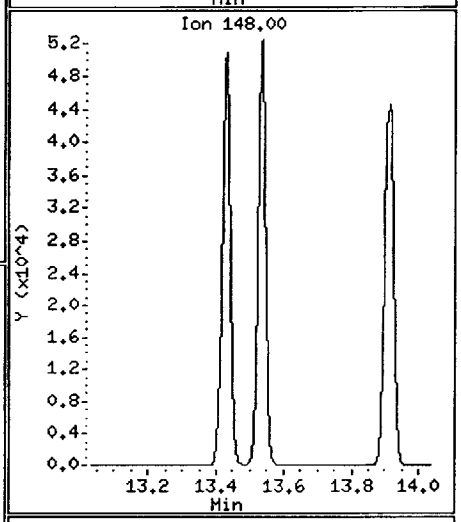


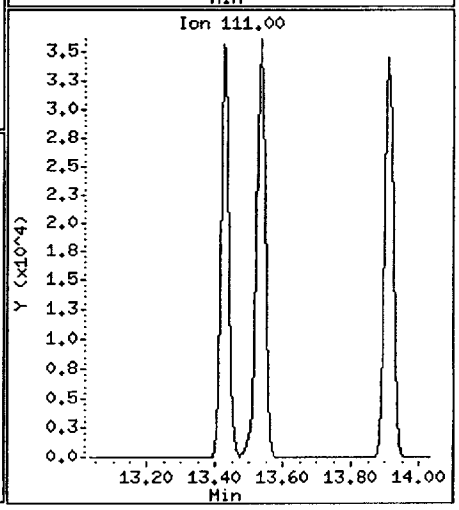












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10211.D

Date : 25-SEP-2002 08:01

Client ID: 11Q30228MSD

Instrument: vms03.i

Sample Info: 220910211;2209102;1;

Purge Volume: 5.0

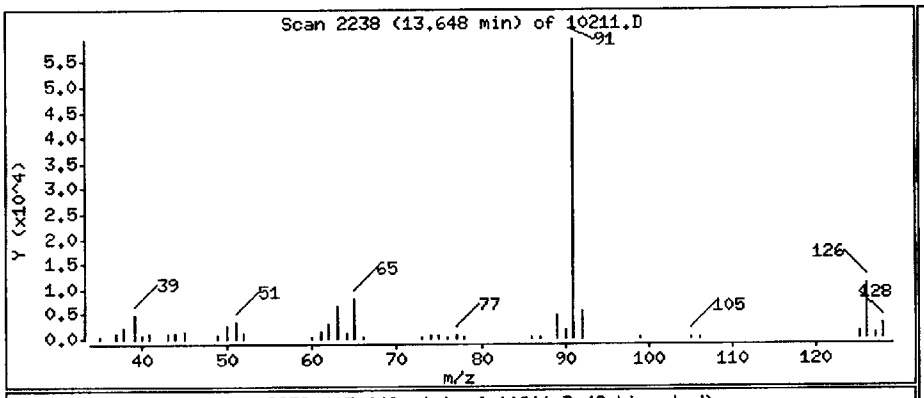
Operator:

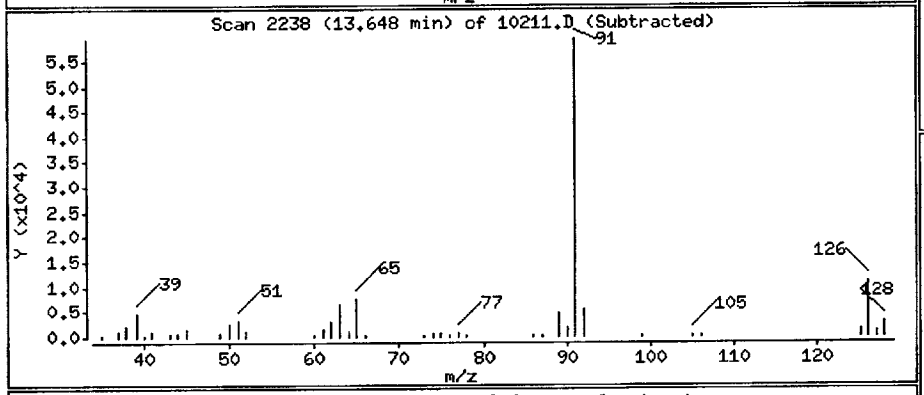
Column phase: DB-624

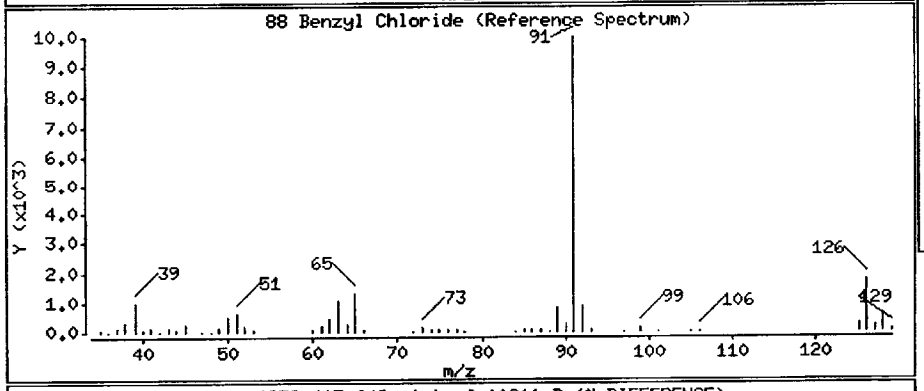
Column diameter: 0.18

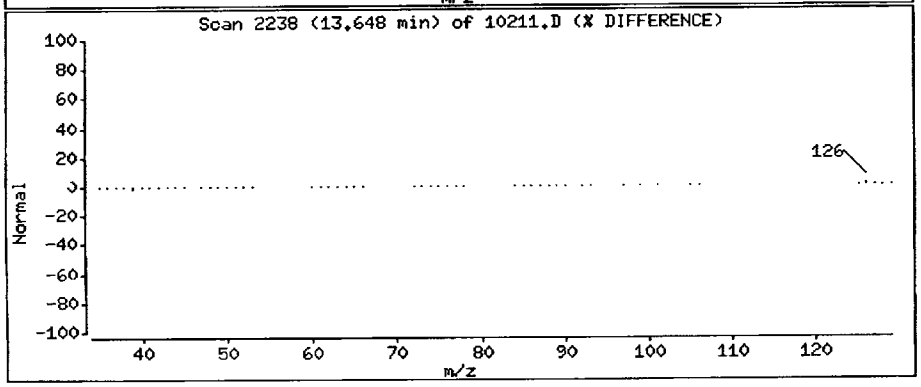
88 Benzyl Chloride

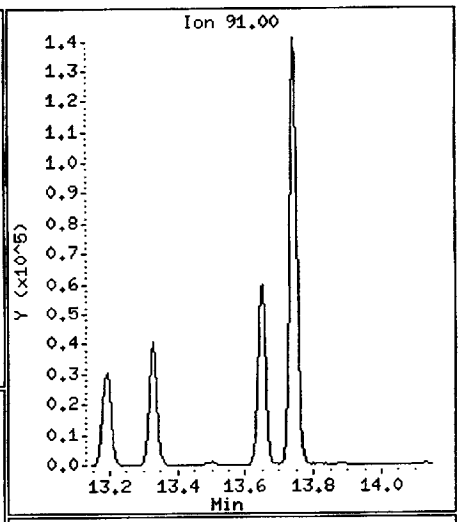
Concentration: 18.6 ug/l

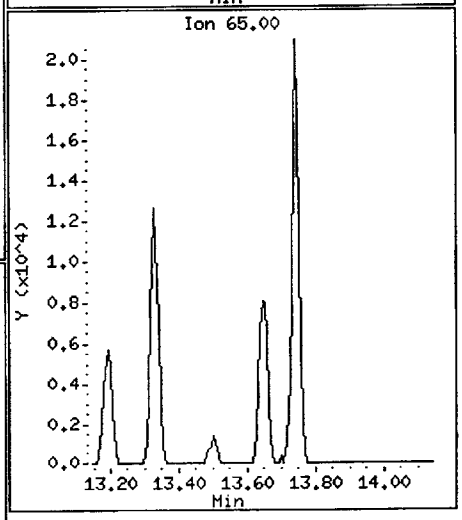












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Date : 25-SEP-2002 08:01

Client ID: 11Q30228MSD

Instrument: vms03.i

Sample Info: 220910211;2209102;1;

Purge Volume: 5.0

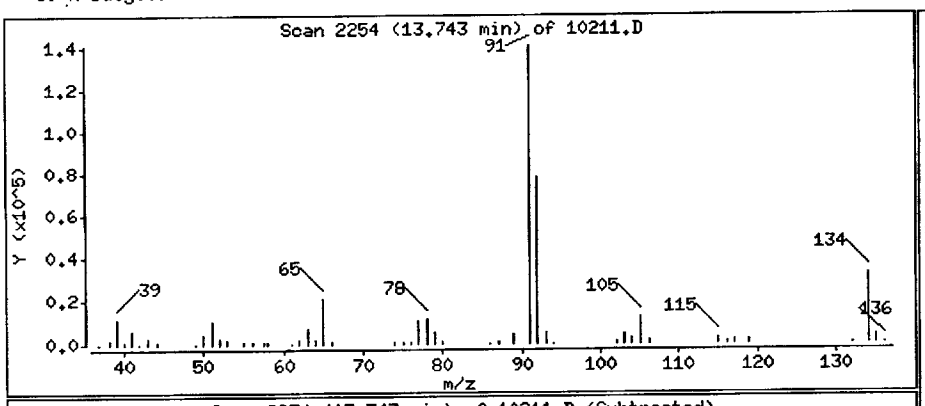
Operator:

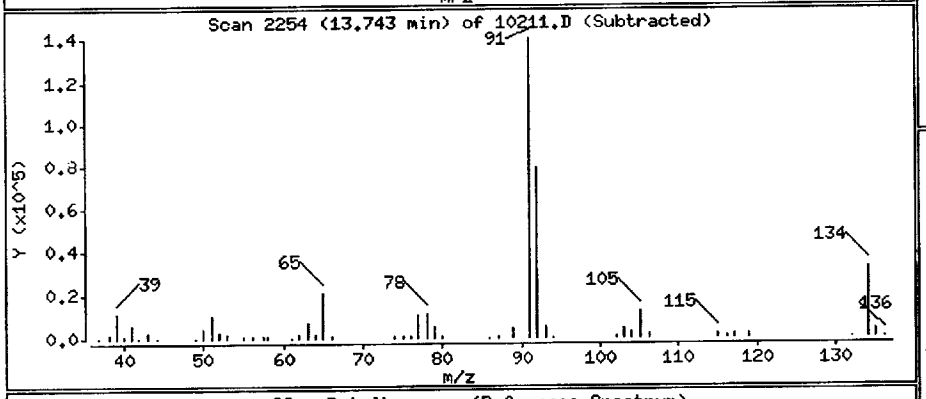
Column phase: DB-624

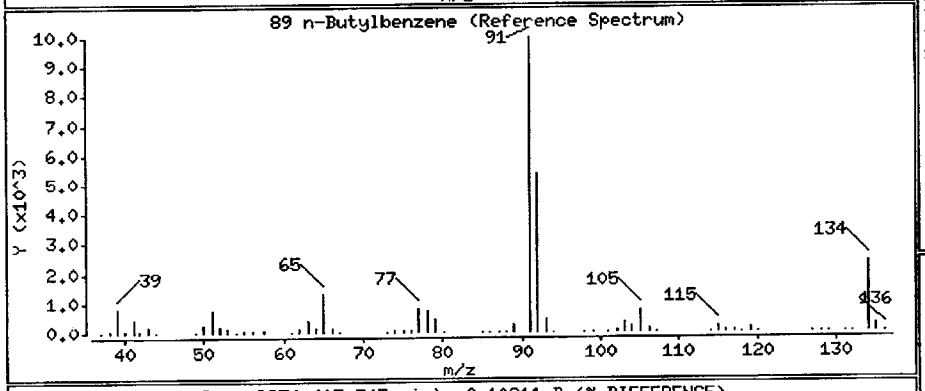
Column diameter: 0.18

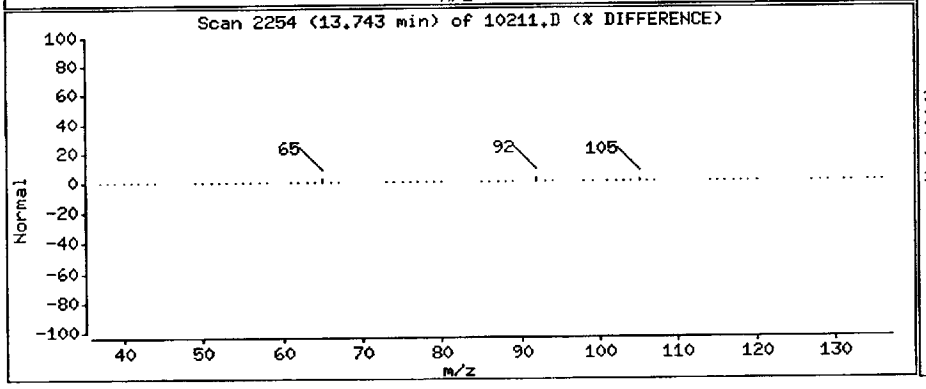
89 n-Butylbenzene

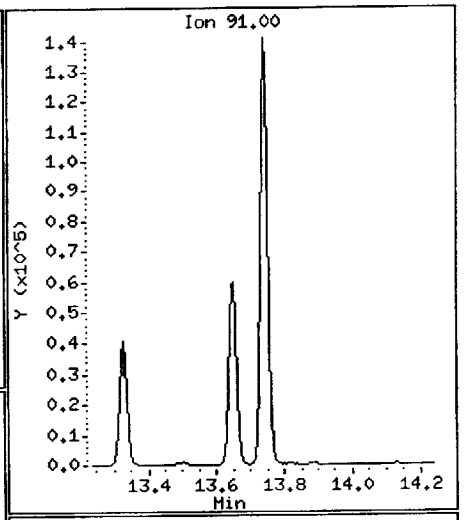
Concentration: 20.7 ug/l

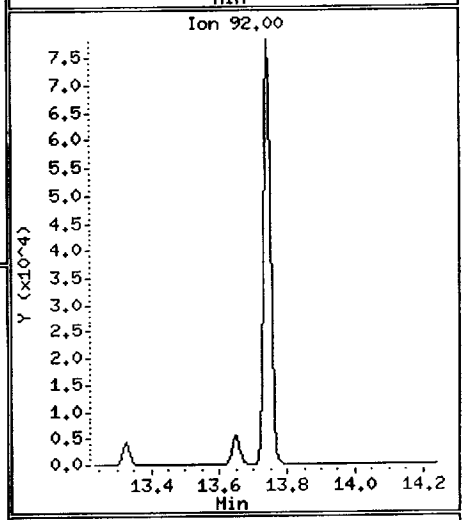


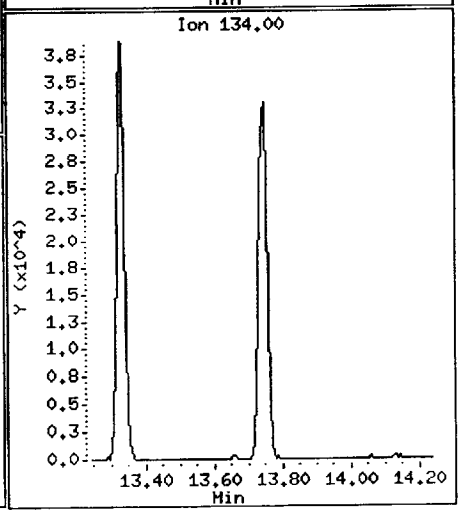












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10211.D

Date : 25-SEP-2002 08:01

Client ID: 11Q30228MSD

Instrument: vms03.i

Sample Info: 220910211;2209102;1;

Purge Volume: 5.0

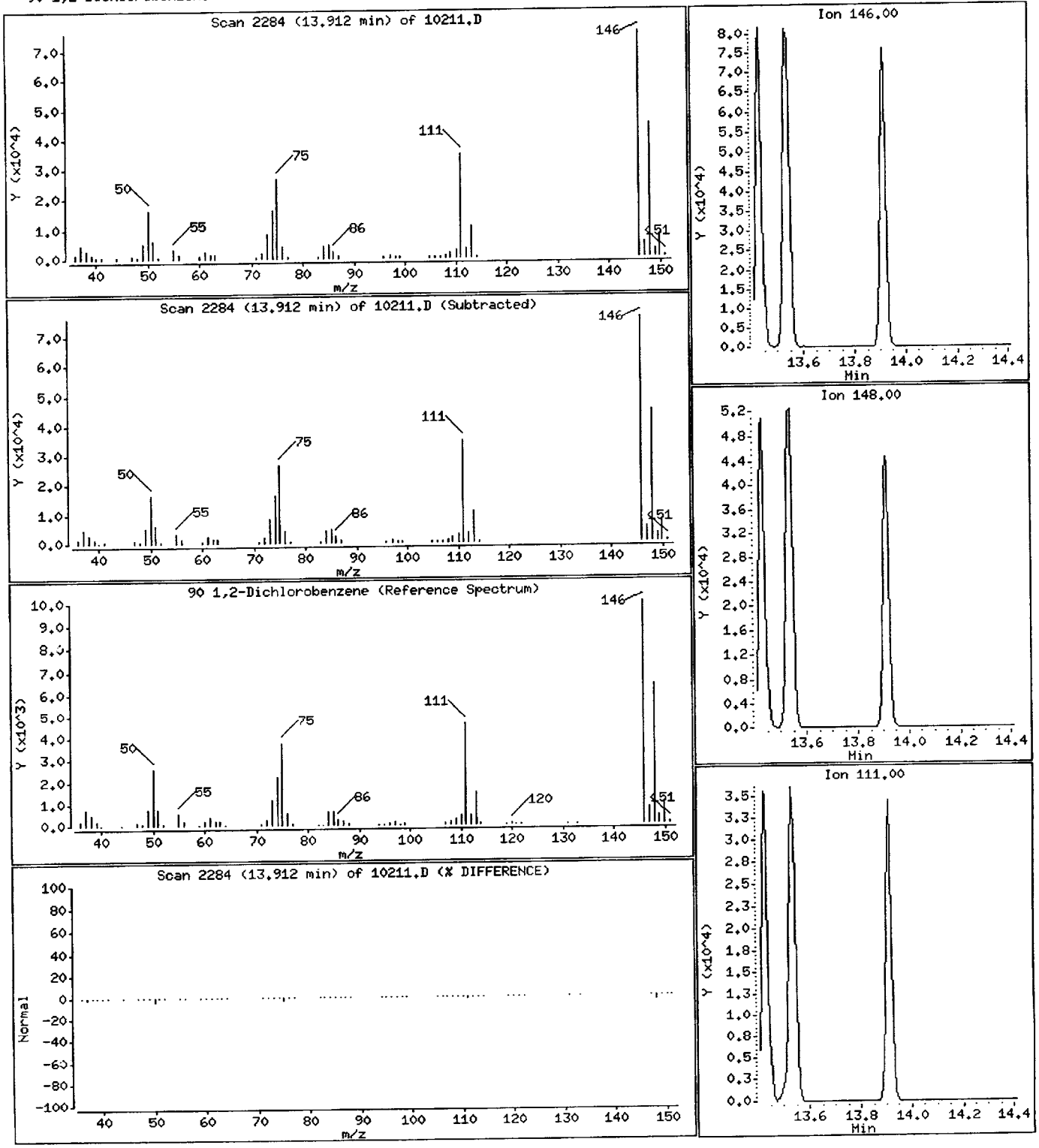
Operator:

Column phase: DB-624

Column diameter: 0.18

90 1,2-Dichlorobenzene

Concentration: 20.8 ug/l



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Date : 25-SEP-2002 08:01

Client ID: 11Q30228MSD

Instrument: vms03.i

Sample Info: 220910211;2209102;1;

Purge Volume: 5.0

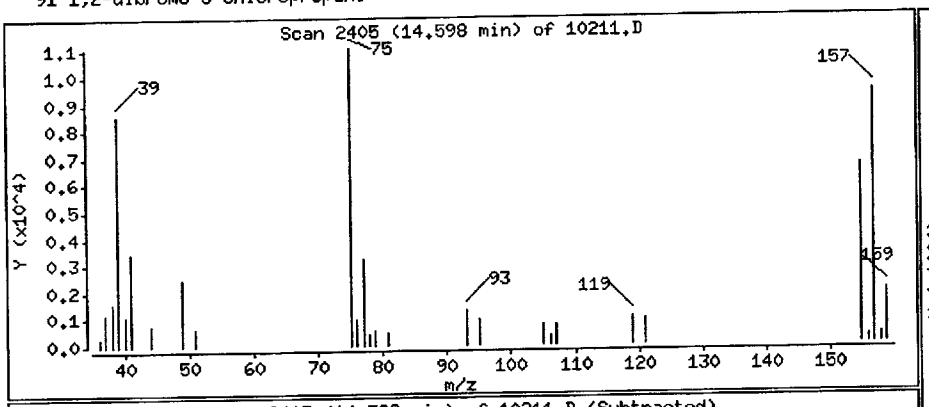
Operator:

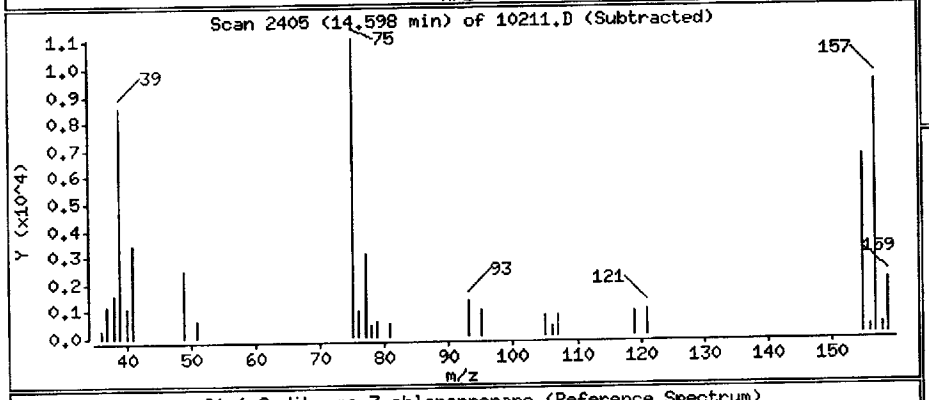
Column phase: DB-624

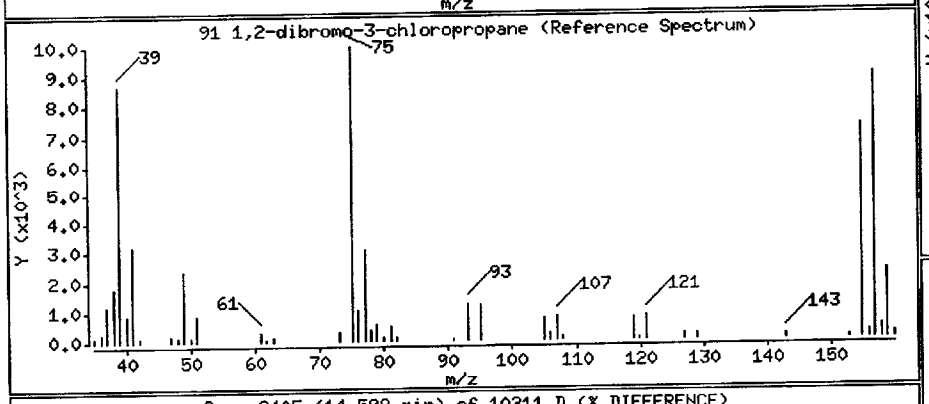
Column diameter: 0.18

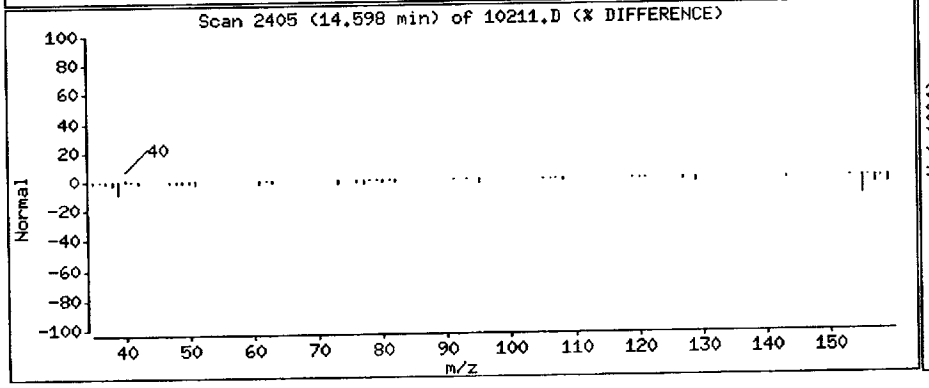
91 1,2-dibromo-3-chloropropane

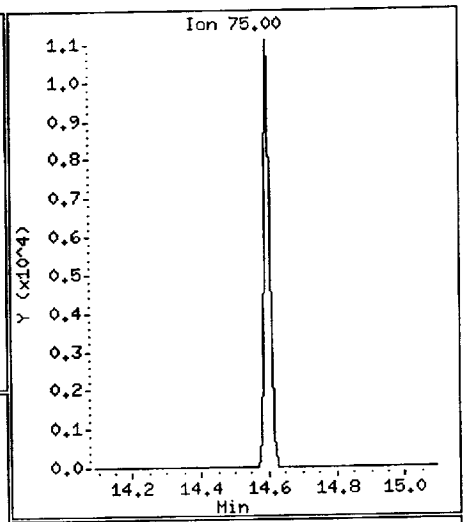
Concentration: 19.7 ug/l

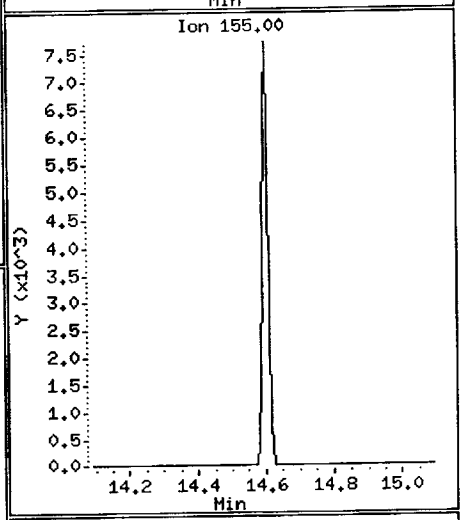


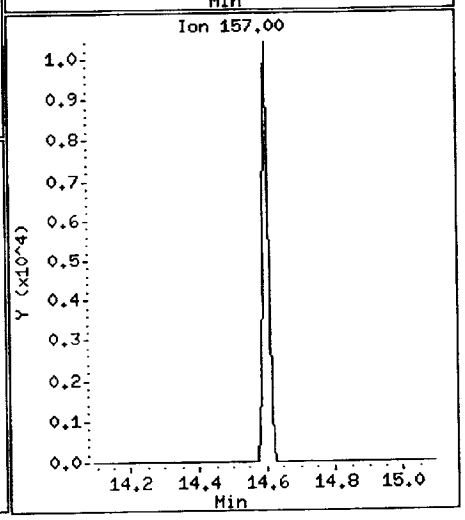












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Date : 25-SEP-2002 08:01

Client ID: 11Q30228MSD

Instrument: vms03.i

Sample Info: 220910211;2209102;1;

Purge Volume: 5.0

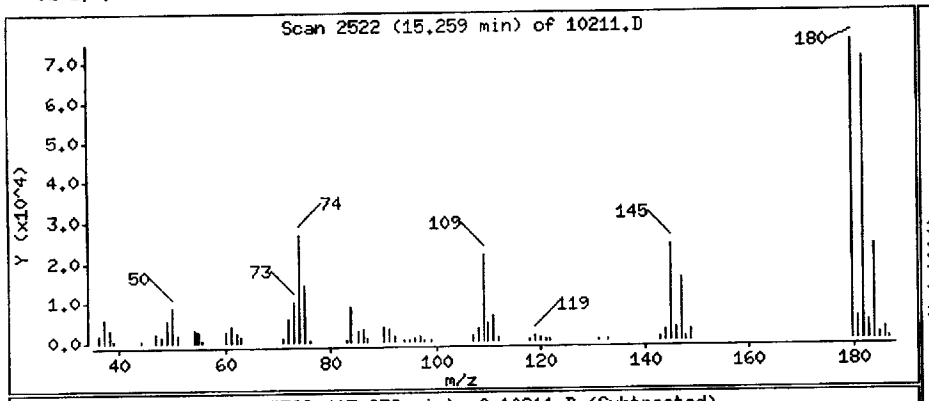
Operator:

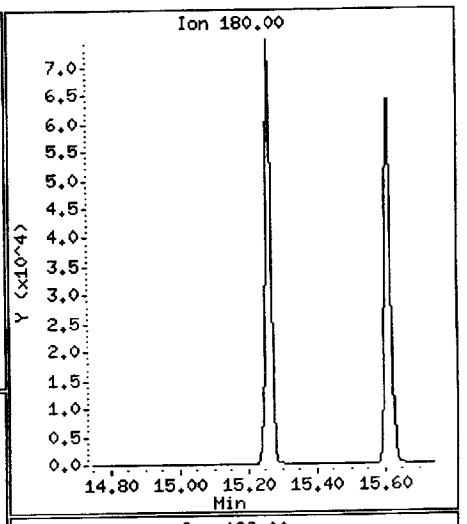
Column phase: DB-624

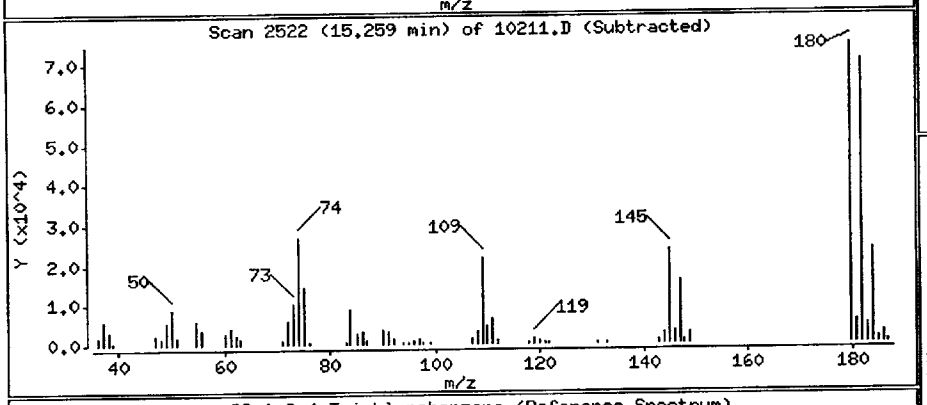
Column diameter: 0.18

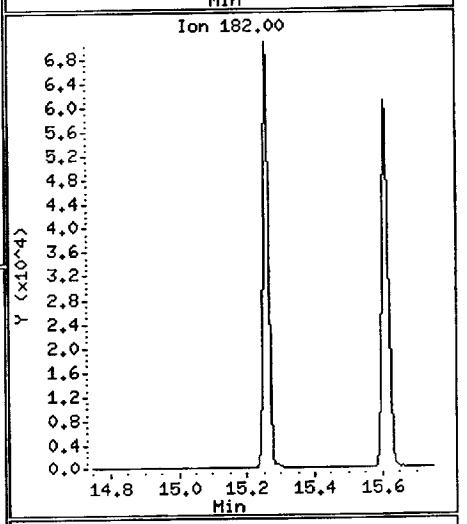
92 1,2,4-Trichlorobenzene

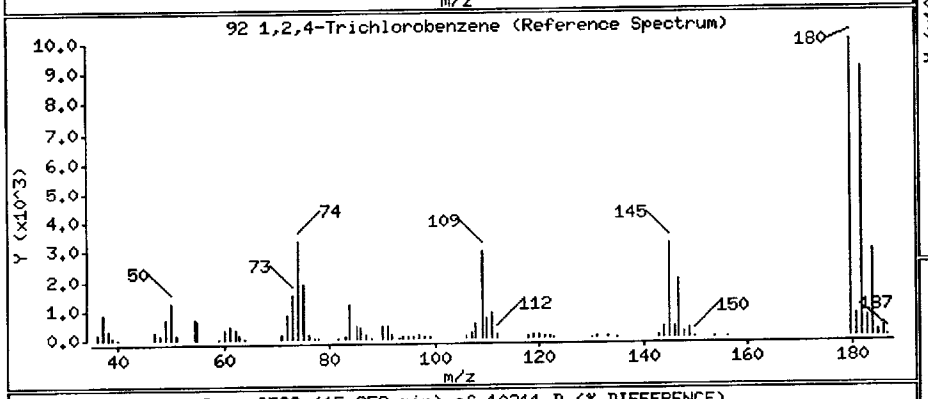
Concentration: 21.4 ug/l

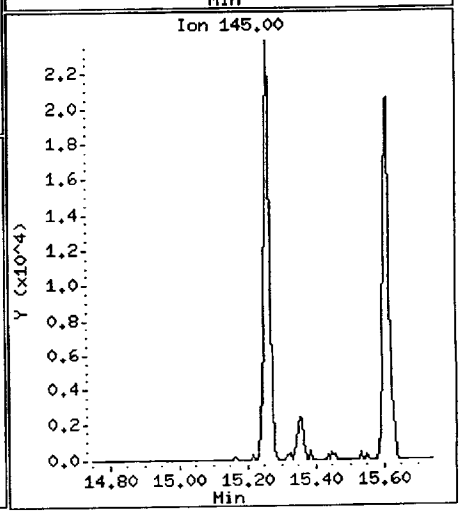


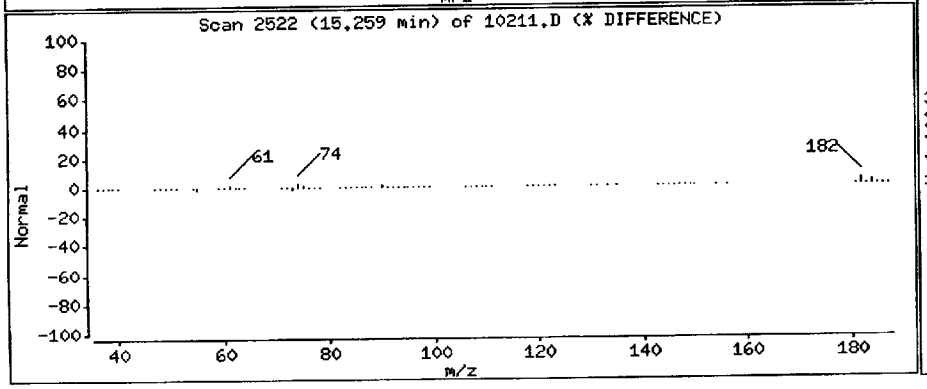












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10211.D

Date : 25-SEP-2002 08:01

Client ID: 11Q30228HSD

Instrument: vms03.i

Sample Info: 220910211;2209102;1;

Purge Volume: 5.0

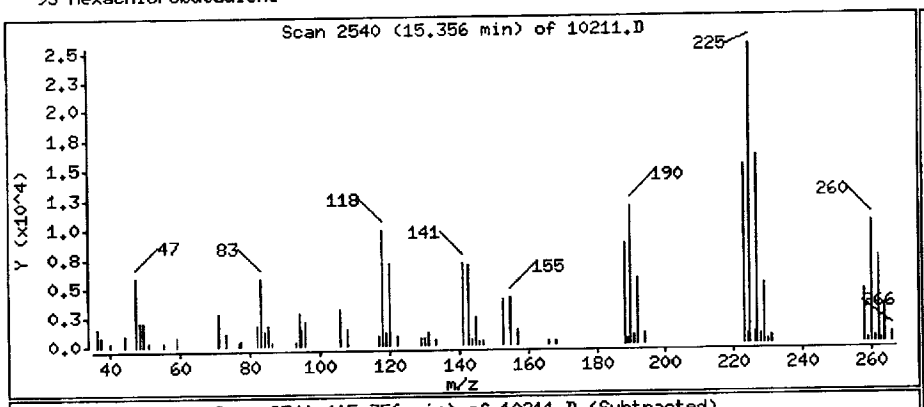
Operator:

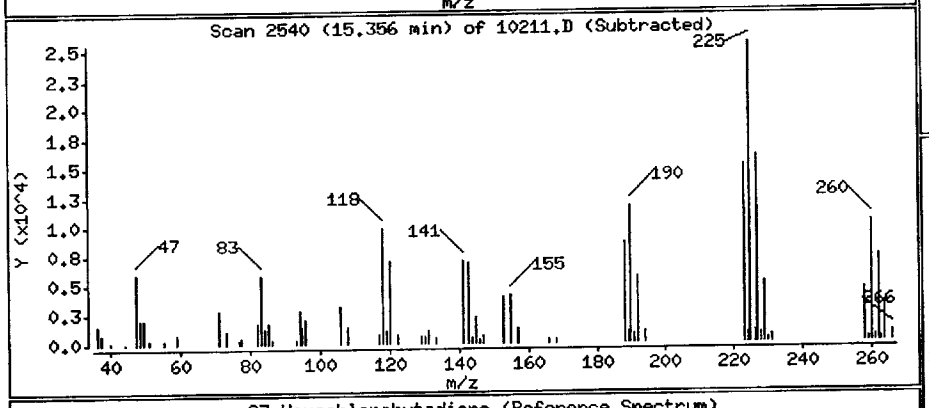
Column phase: DB-624

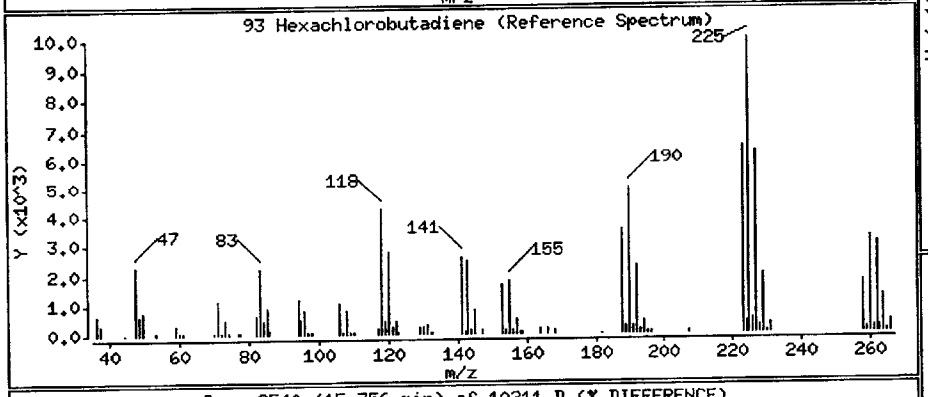
Column diameter: 0.18

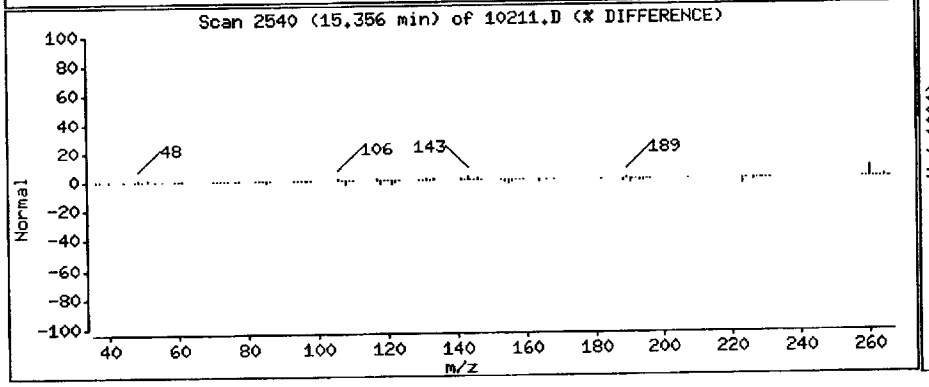
93 Hexachlorobutadiene

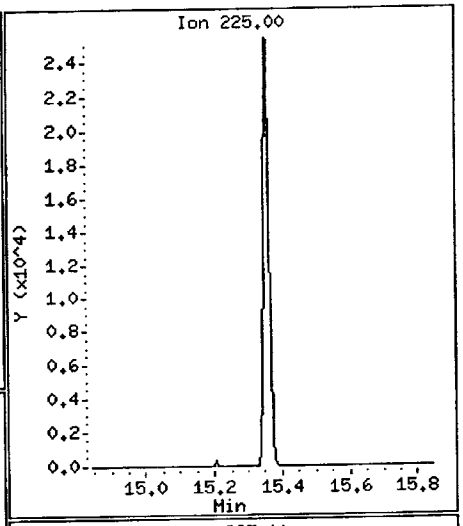
Concentration: 20.7 ug/l

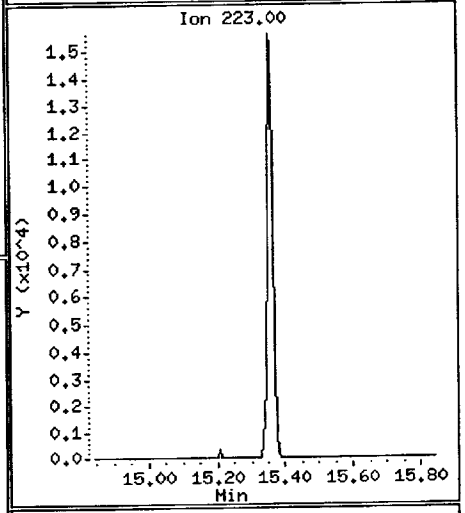


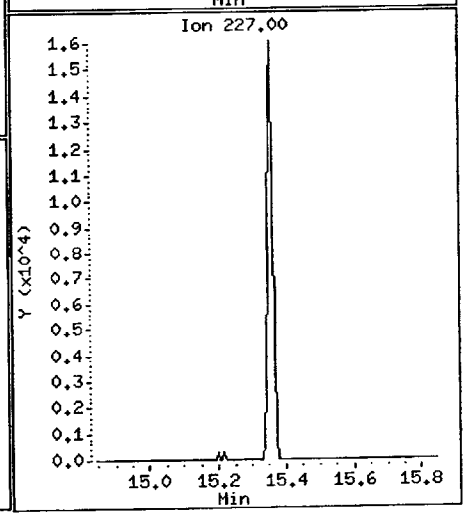












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10211.D

Date : 25-SEP-2002 08:01

Client ID: 11Q30228MSD

Instrument: vms03.i

Sample Info: 220910211;2209102;1;

Purge Volume: 5.0

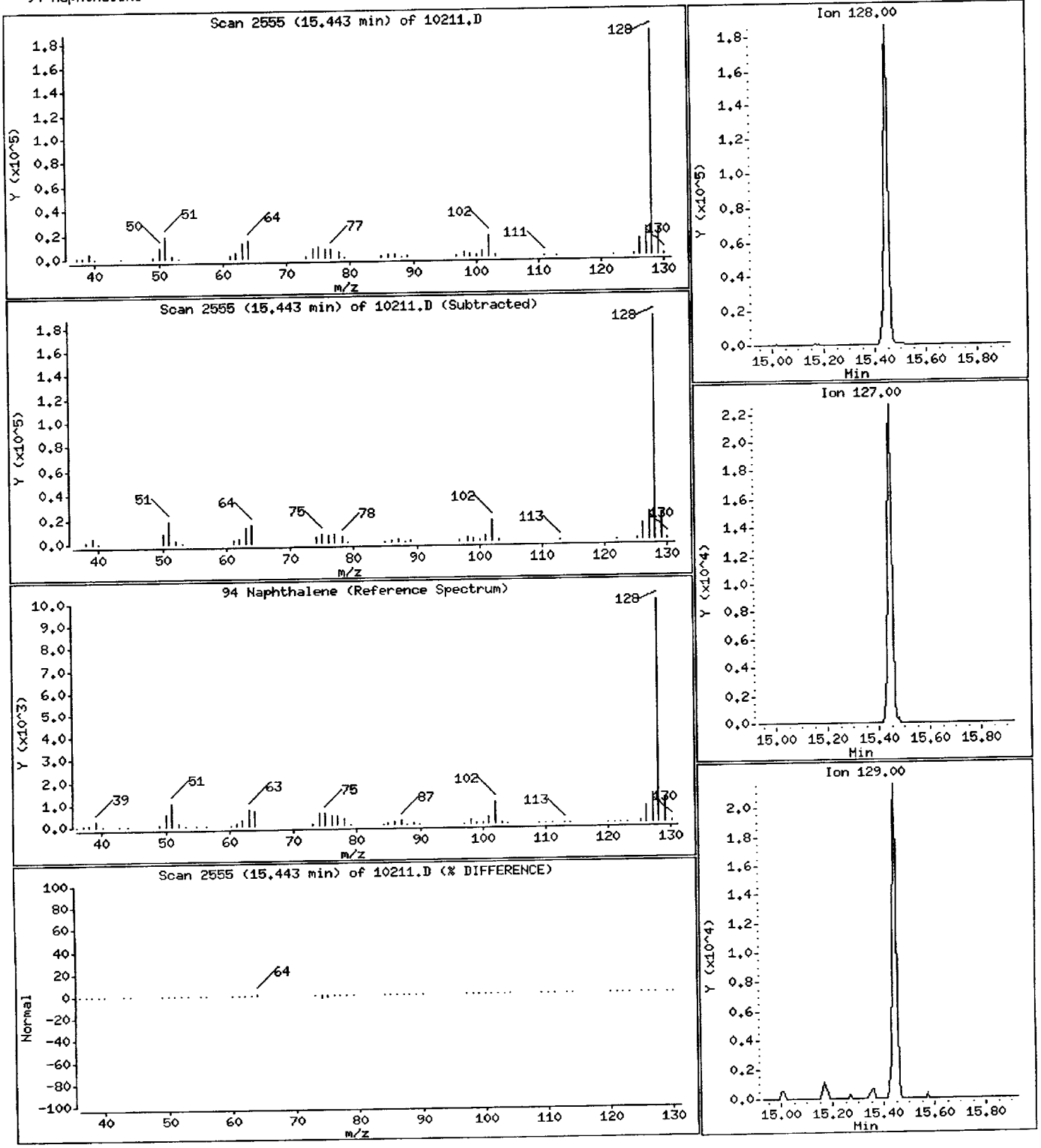
Operator:

Column phase: DB-624

Column diameter: 0.18

94 Naphthalene

Concentration: 23.7 ug/l



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Date : 25-SEP-2002 08:01

Client ID: 11Q30228MSD

Instrument: vms03.i

Sample Info: 220910211;2209102;1;

Purge Volume: 5.0

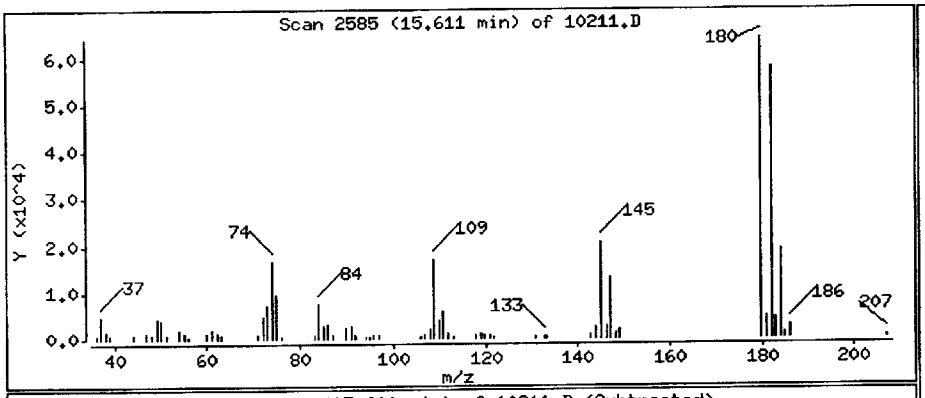
Operator:

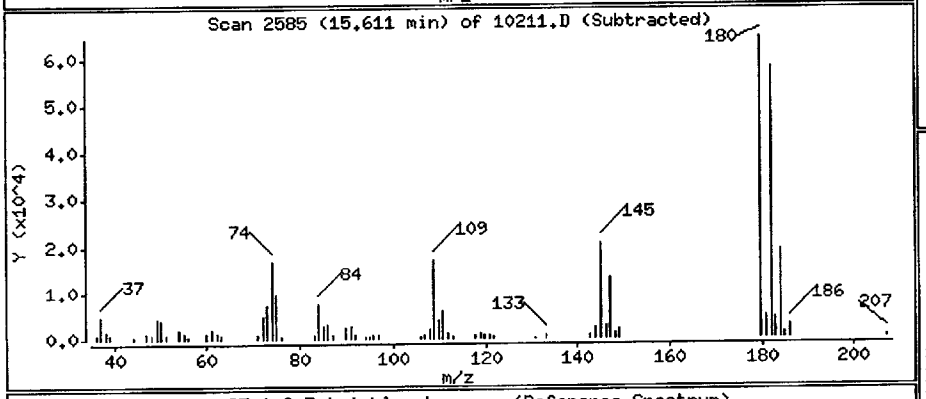
Column phase: DB-624

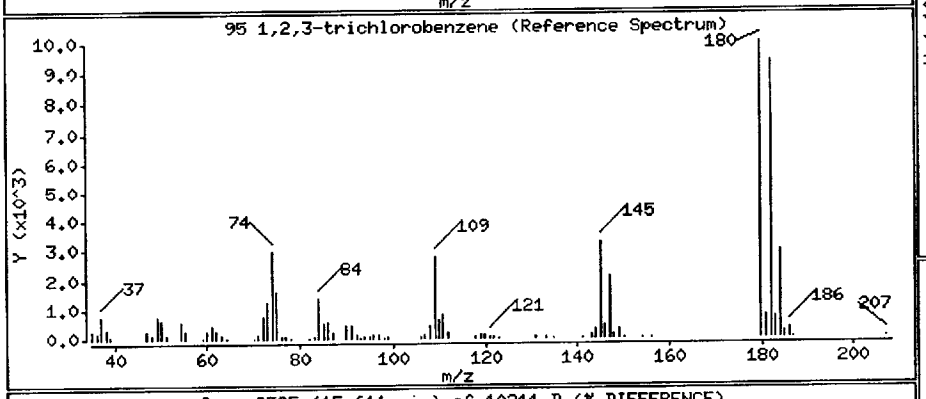
Column diameter: 0.18

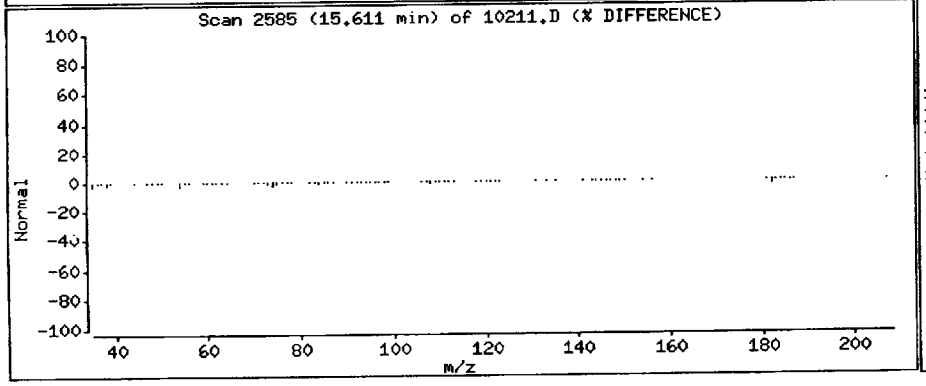
95 1,2,3-trichlorobenzene

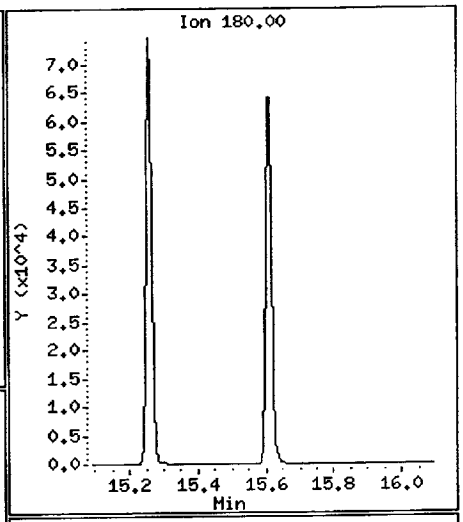
Concentration: 22.4 ug/l

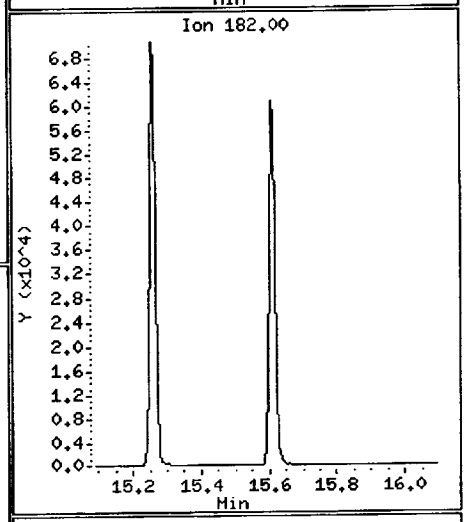


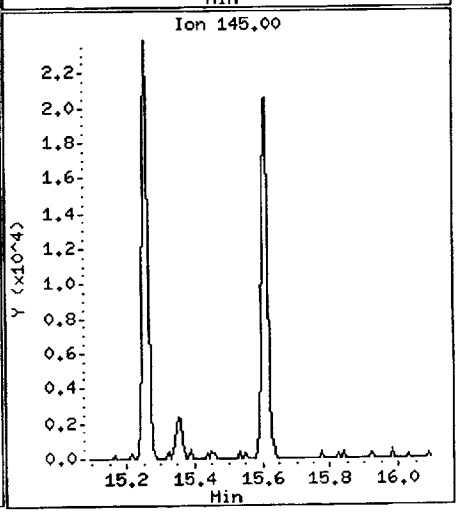












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\BLK32.D
Report Date: 26-Sep-2002 08:49

PEL Laboratories, Inc.

Data file : \\Vms03\dd\chem\vms03.i\M3092502.b\BLK32.D
Lab Smp Id: 092502BLKA32 — Client Smp ID: 092502BLKA32
Inj Date : 25-SEP-2002 08:49 — MS Autotune Date: 29-OCT-2001 10:36
Operator : — Inst ID: vms03.i
Smp Info : 092502BLKA32
Misc Info :
Comment :
Method : \\Vms03\dd\chem\vms03.i\M3092502.b\8260A.m
Meth Date : 26-Sep-2002 08:44 lpelo — Quant Type: ISTD
Cal Date : 27-AUG-2002 09:41 — Cal File: 80PPB.D
Als bottle: 8 — QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP Genie — Compound Sublist: all.sub
Target Version: 4.04 — Sample Matrix: WATER
Processing Host: PELCOMP01

Concentration Formula: Amt * DF * Vf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	Final Volume
Vo	5.000	Sample Volume

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/l)	FINAL (ug/l)	TARGET RANGE	RATIO
$ 34 DIBROMOFLUOROMETHANE (surr)						CAS #: 1868-53-7		
6.814	6.810	(0.874)	113	130701	48.2086	48.2	70.00- 130.00	100.00
6.814	6.811	(0.874)	111	134931			71.10- 131.10	103.24
6.817	6.812	(0.875)	192	23867			0.00- 48.24	18.26
$ 39 1,2-DICHLOROETHANE d4 (surr)						CAS #: 17060-07-0		
7.420	7.416	(0.952)	102	34243	52.3077	52.3	70.00- 130.00	100.00
7.419	7.414	(0.952)	65	207370			587.58- 647.58	605.58
7.419	7.414	(0.952)	67	104205			285.16- 345.16	304.31
* 42 FLUOROBENZENE (IS)						CAS #: 462-06-6		
7.795	7.791	(1.000)	96	540427	50.0000		70.00- 130.00	100.00
7.795	7.792	(1.000)	70	117577			0.00- 51.39	21.76
7.795	7.792	(1.000)	50	79917			0.00- 44.57	14.79

Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\BLK32.D
Report Date: 26-Sep-2002 08:49

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/l)	FINAL (ug/l)	TARGET RANGE	RATIO
$ 53 TOLUENE d8 (surr)						CAS #: 2037-26-5		
9.525	9.522	(1.222)	98	568765	49.5000	49.5	70.00- 130.00	100.00
9.524	9.522	(1.222)	70	64550			0.00- 41.87	11.35
9.524	9.522	(1.222)	100	373002			35.37- 95.37	65.58
* 63 CHLOROBENZENE d5 (IS)						CAS #: 3114-55-4		
11.075	11.073	(1.000)	117	385130	50.0000		70.00- 130.00	100.00
11.077	11.074	(1.000)	119	122708			1.25- 61.25	31.86
11.075	11.073	(1.000)	82	233340			30.45- 90.45	60.59
$ 74 4-BROMOFLUOROBENZENE (surr)						CAS #: 460-00-4		
12.301	12.299	(0.911)	95	211634	49.6815	49.7	70.00- 130.00	100.00
12.303	12.301	(0.911)	174	145610			40.89- 100.89	68.80
12.302	12.300	(0.911)	176	146053			37.00- 97.00	69.01
* 86 1,4-DICHLOROBENZENE-d4 (IS)						CAS #: 3855-82-1		
13.502	13.500	(1.000)	152	200027	50.0000		70.00- 130.00	100.00
13.501	13.500	(1.000)	150	309771			147.70- 207.70	154.86
13.501	13.499	(1.000)	115	127278			34.24- 94.24	63.63

Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\BLK32.D
Report Date: 26-Sep-2002 08:49

PEL Laboratories, Inc.

Data file : \\Vms03\dd\chem\vms03.i\M3092502.b\BLK32.D
Lab Smp Id: 092502BLKA32 Client Smp ID: 092502BLKA32
Inj Date : 25-SEP-2002 08:49 MS Autotune Date: 29-OCT-2001 10:36
Operator : Inst ID: vms03.i
Smp Info : 092502BLKA32
Misc Info :
Comment :
Method : \\Vms03\dd\chem\vms03.i\M3092502.b\8260A.m
Meth Date : 26-Sep-2002 08:44 lpelo Quant Type: ISTD
Cal Date : 27-AUG-2002 09:41 Cal File: 80PPB.D
Als bottle: 8 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.04 Sample Matrix: WATER
Processing Host: PELCOMP01

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\BLK32.D
Report Date: 26-Sep-2002 08:49

PEL Laboratories, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vms03.i
Lab File ID: BLK32.D
Lab Smp Id: 092502BLKA32
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\Vms03\dd\chem\vms03.i\M3092502.b\8260A.m
Misc Info:

Calibration Date: 25-SEP-2002
Calibration Time: 06:02
Client Smp ID: 092502BLKA32
Level: LOW
Sample Type: WATER

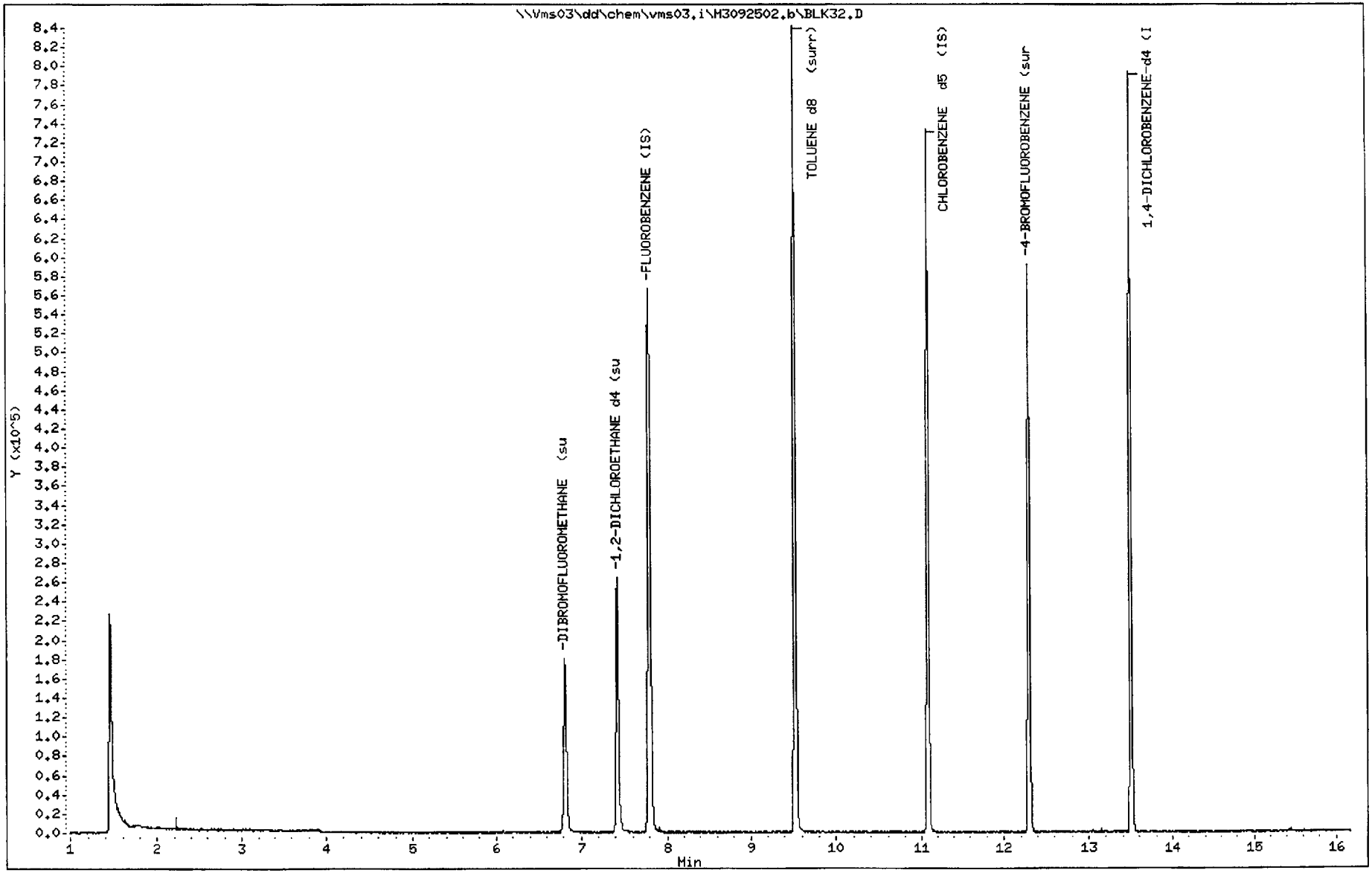
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
42 FLUOROBENZENE (IS	556115	278058	1112230	540427	-2.82
63 CHLOROBENZENE d5	400449	200225	800898	385130	-3.83
86 1,4-DICHLOROBENZE	210064	105032	420128	200027	-4.78

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
42 FLUOROBENZENE (IS	7.79	7.29	8.29	7.80	0.04
63 CHLOROBENZENE d5	11.07	10.57	11.57	11.08	0.02
86 1,4-DICHLOROBENZE	13.50	13.00	14.00	13.50	0.02

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\BLK32.D
Date : 25-SEP-2002 08:49
Client ID: 092502BLKA32
Sample Info: 092502BLKA32
Purge Volume: 5.0
Column phase: DB-624

Instrument: vms03.i
Operator:
Column diameter: 0.18



Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10209.D
Report Date: 26-Sep-2002 08:49

PEL Laboratories, Inc.

Data file : \\Vms03\dd\chem\vms03.i\M3092502.b\10209.D
Lab Smp Id: 220910209 Client Smp ID: 11Q30228
Inj Date : 25-SEP-2002 11:59 MS Autotune Date: 29-OCT-2001 10:36
Operator : Inst ID: vms03.i
Smp Info : 220910209;2209102;1;
Misc Info :
Comment :
Method : \\Vms03\dd\chem\vms03.i\M3092502.b\8260A.m
Meth Date : 26-Sep-2002 08:44 lpelo Quant Type: ISTD
Cal Date : 27-AUG-2002 09:41 Cal File: 80PPB.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.04 Sample Matrix: WATER
Processing Host: PELCOMP01

Concentration Formula: Amt * DF * Vf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	Final Volume
Vo	5.000	Sample Volume

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/1)	FINAL (ug/1)	TARGET RANGE	RATIO
$ 34 DIBROMOFLUOROMETHANE (surr)						CAS #: 1868-53-7		
6.817	6.810	(0.874)	113	131168	49.3883	49.4	70.00- 130.00	100.00
6.816	6.811	(0.874)	111	132787			71.10- 131.10	101.23
6.820	6.812	(0.875)	192	23581			0.00- 48.24	17.98
$ 39 1,2-DICHLOROETHANE d4 (surr)						CAS #: 17060-07-0		
7.421	7.416	(0.952)	102	32454	50.6073	50.6	70.00- 130.00	100.00
7.421	7.414	(0.952)	65	201795			587.58- 647.58	621.79
7.421	7.414	(0.952)	67	101850			285.16- 345.16	313.83
* 42 FLUOROBENZENE (IS)						CAS #: 462-06-6		
7.797	7.791	(1.000)	96	529403	50.0000		70.00- 130.00	100.00
7.796	7.792	(1.000)	70	116411			0.00- 51.39	21.99
7.796	7.792	(1.000)	50	79748			0.00- 44.57	15.06

Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10209.D
Report Date: 26-Sep-2002 08:49

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/l)	CONCENTRATIONS FINAL (ug/l)	TARGET RANGE	RATIO
$ 53 TOLUENE d8 (surr)						CAS #: 2037-26-5		
9.526	9.522	(1.222)	98	552620	49.0963	49.1	70.00- 130.00	100.00
9.524	9.522	(1.222)	70	64962			0.00- 41.87	11.76
9.525	9.522	(1.222)	100	360806			35.37- 95.37	65.29
* 63 CHLOROBENZENE d5 (IS)						CAS #: 3114-55-4		
11.077	11.073	(1.000)	117	379872	50.0000		70.00- 130.00	100.00
11.077	11.074	(1.000)	119	120401			1.25- 61.25	31.70
11.076	11.073	(1.000)	82	231342			30.45- 90.45	60.90
$ 74 4-BROMOFLUOROBENZENE (surr)						CAS #: 460-00-4		
12.302	12.299	(0.911)	95	205643	49.7712	49.8	70.00- 130.00	100.00
12.304	12.301	(0.911)	174	144212			40.89- 100.89	70.13
12.304	12.300	(0.911)	176	138035			37.00- 97.00	67.12
* 86 1,4-DICHLOROBENZENE-d4 (IS)						CAS #: 3855-82-1		
13.502	13.500	(1.000)	152	194014	50.0000		70.00- 130.00	100.00
13.502	13.500	(1.000)	150	306086			147.70- 207.70	157.76
13.502	13.499	(1.000)	115	126108			34.24- 94.24	65.00

Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10209.D
Report Date: 26-Sep-2002 08:49

PEL Laboratories, Inc.

Data file : \\Vms03\dd\chem\vms03.i\M3092502.b\10209.D
Lab Smp Id: 220910209 Client Smp ID: 11Q30228
Inj Date : 25-SEP-2002 11:59 MS Autotune Date: 29-OCT-2001 10:36
Operator : Inst ID: vms03.i
Smp Info : 220910209;2209102;1;
Misc Info :
Comment :
Method : \\Vms03\dd\chem\vms03.i\M3092502.b\8260A.m
Meth Date : 26-Sep-2002 08:44 lpelo Quant Type: ISTD
Cal Date : 27-AUG-2002 09:41 Cal File: 80PPB.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.04 Sample Matrix: WATER
Processing Host: PELCOMP01

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10209.D
Report Date: 26-Sep-2002 08:49

PEL Laboratories, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vms03.i
Lab File ID: 10209.D
Lab Smp Id: 220910209
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\Vms03\dd\chem\vms03.i\M3092502.b\8260A.m
Misc Info:

Calibration Date: 25-SEP-2002
Calibration Time: 06:02
Client Smp ID: 11Q30228
Level: LOW
Sample Type: WATER

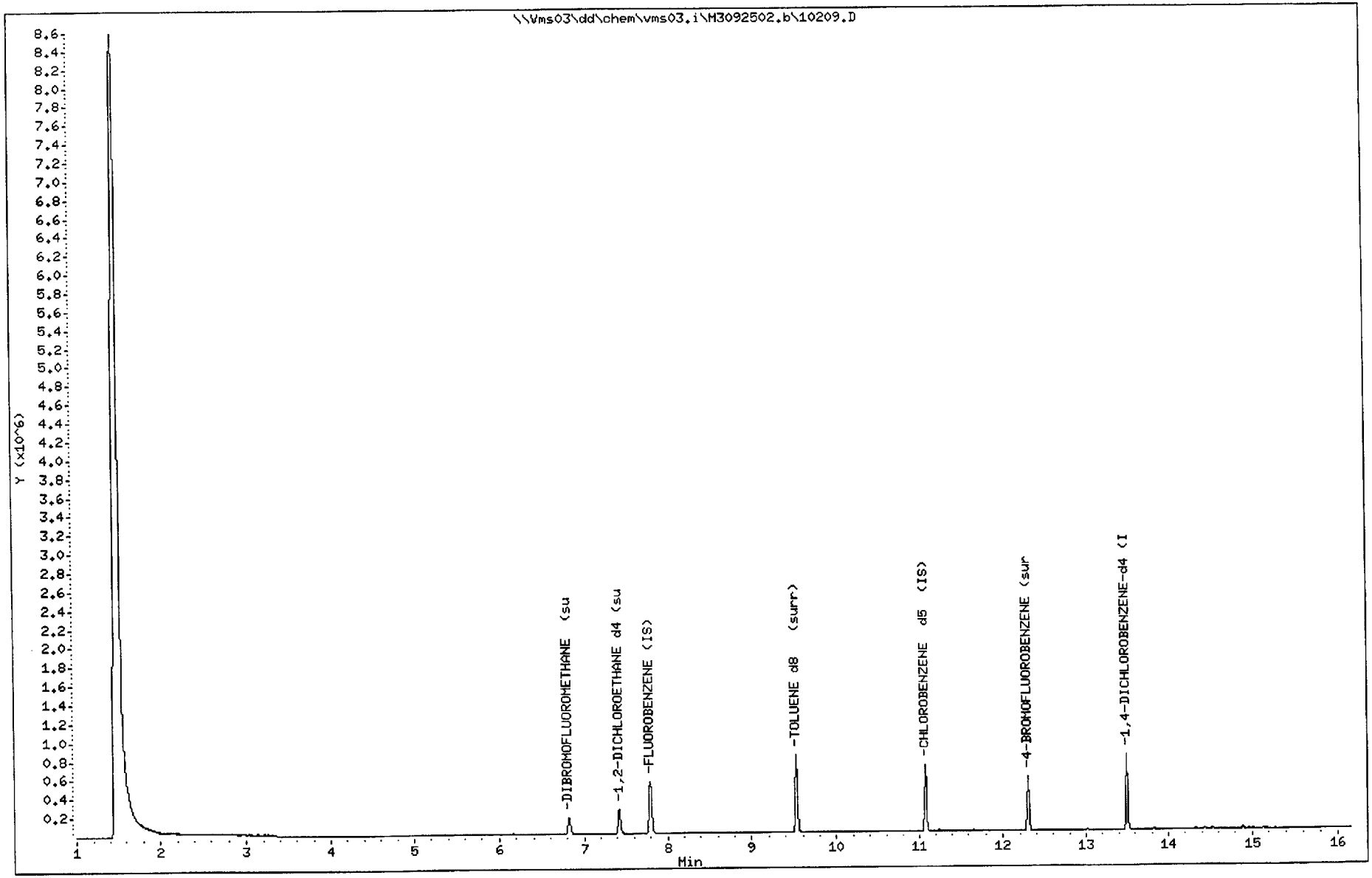
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
42 FLUOROBENZENE (IS	556115	278058	1112230	529403	-4.80
63 CHLOROBENZENE d5	400449	200225	800898	379872	-5.14
86 1,4-DICHLOROBENZE	210064	105032	420128	194014	-7.64

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
42 FLUOROBENZENE (IS	7.79	7.29	8.29	7.80	0.07
63 CHLOROBENZENE d5	11.07	10.57	11.57	11.08	0.03
86 1,4-DICHLOROBENZE	13.50	13.00	14.00	13.50	0.02

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10209.D
Date : 25-SEP-2002 11:59
Client ID: 11Q30228
Sample Info: 220910209;2209102;1;
Purge Volume: 5.0
Column phase: DB-624

Instrument: vms03.i
Operator:
Column diameter: 0.18



Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10202.D
Report Date: 26-Sep-2002 08:49

PEL Laboratories, Inc.

Data file : \\Vms03\dd\chem\vms03.i\M3092502.b\10202.D
Lab Smp Id: 220910202 — Client Smp ID: 02Q30228
Inj Date : 25-SEP-2002 12:23 — MS Autotune Date: 29-OCT-2001 10:36
Operator : — Inst ID: vms03.i
Smp Info : 220910202;2209102;1;
Misc Info :
Comment :
Method : \\Vms03\dd\chem\vms03.i\M3092502.b\8260A.m
Meth Date : 26-Sep-2002 08:44 lpelo — Quant Type: ISTD
Cal Date : 27-AUG-2002 09:41 — Cal File: 80PPB.D
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP Genie — Compound Sublist: all.sub
Target Version: 4.04 — Sample Matrix: WATER
Processing Host: PELCOMP01

Concentration Formula: Amt * DF * Vf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	Final Volume
Vo	5.000	Sample Volume

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/l)	FINAL (ug/l)	TARGET RANGE	RATIO
$ 34 DIBROMOFLUOROMETHANE (surr)						CAS #: 1868-53-7		
6.817	6.810	(0.874)	113	133896	50.6768	50.7	70.00- 130.00	100.00
6.817	6.811	(0.874)	111	136536			71.10- 131.10	101.97
6.821	6.812	(0.875)	192	24200			0.00- 48.24	18.07
$ 39 1,2-DICHLOROETHANE d4 (surr)						CAS #: 17060-07-0		
7.420	7.416	(0.952)	102	33290	52.1800	52.2	70.00- 130.00	100.00
7.420	7.414	(0.952)	65	206929			587.58- 647.58	621.60
7.420	7.414	(0.952)	67	103390			285.16- 345.16	310.57
* 42 FLUOROBENZENE (IS)						CAS #: 462-06-6		
7.797	7.791	(1.000)	96	526673	50.0000		70.00- 130.00	100.00
7.795	7.792	(1.000)	70	114212			0.00- 51.39	21.69
7.796	7.792	(1.000)	50	79242			0.00- 44.57	15.05

Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10202.D
Report Date: 26-Sep-2002 08:49

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/l)	FINAL (ug/l)	TARGET RANGE	RATIO
$ 53 TOLUENE d8 (surr)						CAS #: 2037-26-5		
9.525	9.522	(1.222)	98	559658	49.9794	50.0	70.00- 130.00	100.00
9.525	9.522	(1.222)	70	65435			0.00- 41.87	11.69
9.526	9.522	(1.222)	100	366330			35.37- 95.37	65.46
* 63 CHLOROBENZENE d5 (IS)						CAS #: 3114-55-4		
11.076	11.073	(1.000)	117	375050	50.0000		70.00- 130.00	100.00
11.077	11.074	(1.000)	119	118271			1.25- 61.25	31.53
11.076	11.073	(1.000)	82	229698			30.45- 90.45	61.24
$ 74 4-BROMOFLUOROBENZENE (surr)						CAS #: 460-00-4		
12.302	12.299	(0.911)	95	207685	51.7155	51.7	70.00- 130.00	100.00
12.303	12.301	(0.911)	174	142579			40.89- 100.89	68.65
12.303	12.300	(0.911)	176	139171			37.00- 97.00	67.01
* 86 1,4-DICHLOROBENZENE-d4 (IS)						CAS #: 3855-82-1		
13.502	13.500	(1.000)	152	188574	50.0000		70.00- 130.00	100.00
13.503	13.500	(1.000)	150	296304			147.70- 207.70	157.13
13.501	13.499	(1.000)	115	121959			34.24- 94.24	64.67

Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10202.D
Report Date: 26-Sep-2002 08:49

PEL Laboratories, Inc.

Data file : \\Vms03\dd\chem\vms03.i\M3092502.b\10202.D
Lab Smp Id: 220910202 Client Smp ID: 02Q30228
Inj Date : 25-SEP-2002 12:23 MS Autotune Date: 29-OCT-2001 10:36
Operator : Inst ID: vms03.i
Smp Info : 220910202;2209102;1;
Misc Info :
Comment :
Method : \\Vms03\dd\chem\vms03.i\M3092502.b\8260A.m
Meth Date : 26-Sep-2002 08:44 lpelo Quant Type: ISTD
Cal Date : 27-AUG-2002 09:41 Cal File: 80PPB.D
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.04 Sample Matrix: WATER
Processing Host: PELCOMP01

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10202.D
Report Date: 26-Sep-2002 08:49

PEL Laboratories, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vms03.i
Lab File ID: 10202.D
Lab Smp Id: 220910202
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\Vms03\dd\chem\vms03.i\M3092502.b\8260A.m
Misc Info:

Calibration Date: 25-SEP-2002
Calibration Time: 06:02
Client Smp ID: 02Q30228
Level: LOW
Sample Type: WATER

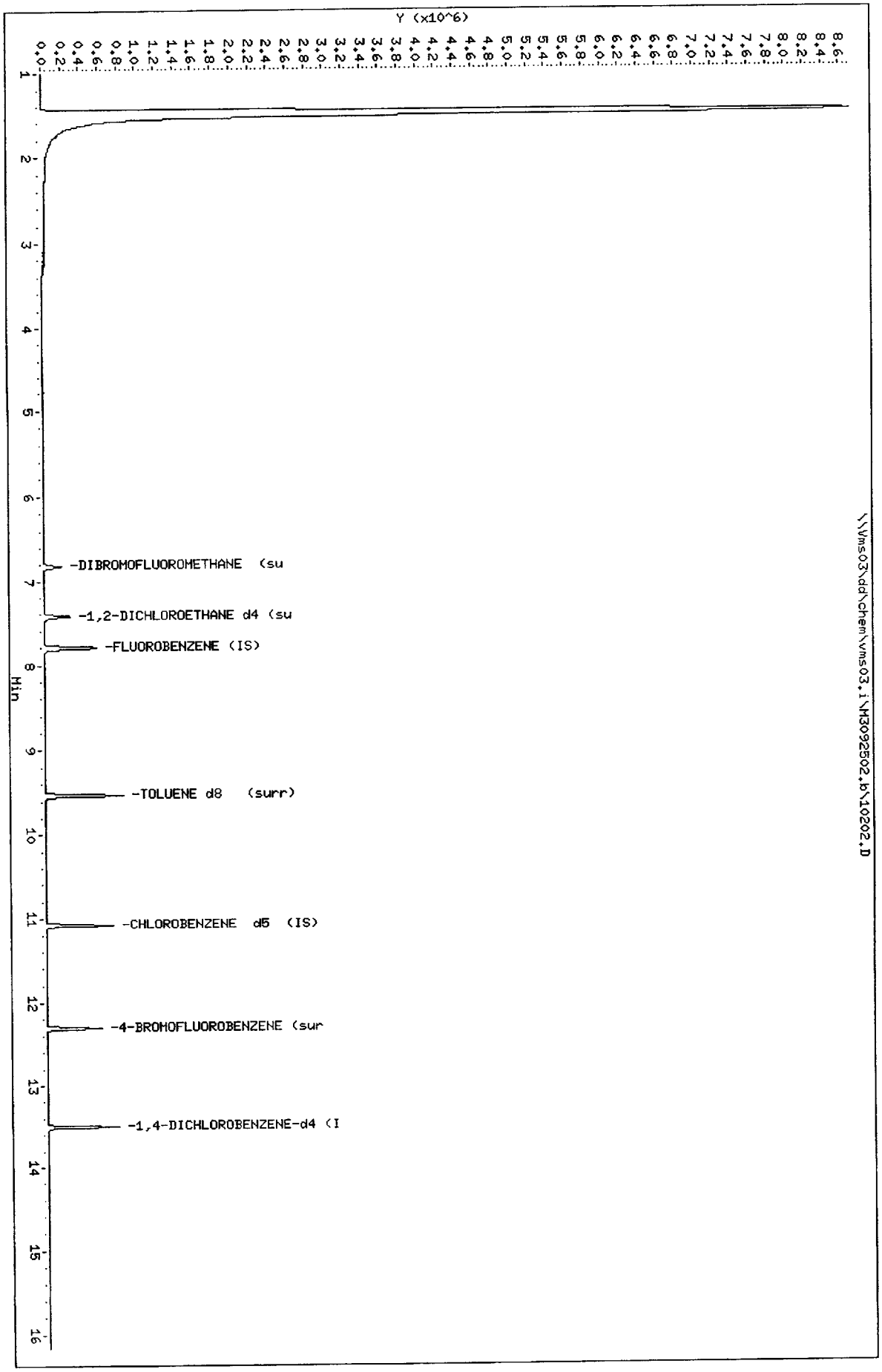
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
42 FLUOROBENZENE (IS	556115	278058	1112230	526673	-5.29
63 CHLOROBENZENE d5	400449	200225	800898	375050	-6.34
86 1,4-DICHLOROBENZE	210064	105032	420128	188574	-10.23

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
42 FLUOROBENZENE (IS	7.79	7.29	8.29	7.80	0.07
63 CHLOROBENZENE d5	11.07	10.57	11.57	11.08	0.03
86 1,4-DICHLOROBENZE	13.50	13.00	14.00	13.50	0.02

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10202.D
Date : 25-SEP-2002 12:23
Client ID: 02Q30228
Sample Info: 2209102O2;2209102;1;
Purge Volume: 5.0
Column phase: DB-624

Instrument: vms03.i
Operator:
Column diameter: 0.18



\\Vms03\dd\chem\vms03.i\M3092502.b\10202.D

Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10203.D
Report Date: 26-Sep-2002 08:50

PEL Laboratories, Inc.

Data file : \\Vms03\dd\chem\vms03.i\M3092502.b\10203.D
Lab Smp Id: 220910203 — Client Smp ID: 03Q30228
Inj Date : 25-SEP-2002 12:47 — MS Autotune Date: 29-OCT-2001 10:36
Operator : — Inst ID: vms03.i
Smp Info : 220910203;2209102;1;
Misc Info :
Comment :
Method : \\Vms03\dd\chem\vms03.i\M3092502.b\8260A.m
Meth Date : 26-Sep-2002 08:44 lpelo — Quant Type: ISTD
Cal Date : 27-AUG-2002 09:41 — Cal File: 80PPB.D
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP Genie — Compound Sublist: all.sub
Target Version: 4.04 — Sample Matrix: WATER
Processing Host: PELCOMP01

Concentration Formula: Amt * DF * Vf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	Final Volume
Vo	5.000	Sample Volume

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/l)	FINAL (ug/l)	TARGET RANGE	RATIO
$ 34 DIBROMOFLUOROMETHANE (surr)						CAS #: 1868-53-7		
6.820	6.810	(0.875)	113	130460	49.0942	49.1	70.00- 130.00	100.00
6.818	6.811	(0.874)	111	135293			71.10- 131.10	103.70
6.817	6.812	(0.874)	192	23918			0.00- 48.24	18.33
$ 39 1,2-DICHLOROETHANE d4 (surr)						CAS #: 17060-07-0		
7.422	7.416	(0.952)	102	33499	52.2075	52.2	70.00- 130.00	100.00
7.420	7.414	(0.952)	65	209970			587.58- 647.58	626.79
7.421	7.414	(0.952)	67	103414			285.16- 345.16	308.71
* 42 FLUOROBENZENE (IS)						CAS #: 462-06-6		
7.797	7.791	(1.000)	96	529700	50.0000		70.00- 130.00	100.00
7.797	7.792	(1.000)	70	111492			0.00- 51.39	21.05
7.797	7.792	(1.000)	50	77860			0.00- 44.57	14.70

Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10203.D
Report Date: 26-Sep-2002 08:50

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/l)	FINAL (ug/l)	TARGET RANGE	RATIO
$ 53 TOLUENE d8 (surr)						CAS #: 2037-26-5		
9.526	9.522	(1.222)	98	554678	49.2516	49.2	70.00- 130.00	100.00
9.526	9.522	(1.222)	70	65156			0.00- 41.87	11.75
9.527	9.522	(1.222)	100	367713			35.37- 95.37	66.29
* 63 CHLOROBENZENE d5 (IS)						CAS #: 3114-55-4		
11.076	11.073	(1.000)	117	371533	50.0000		70.00- 130.00	100.00
11.077	11.074	(1.000)	119	116493			1.25- 61.25	31.35
11.076	11.073	(1.000)	82	228006			30.45- 90.45	61.37
$ 74 4-BROMOFLUOROBENZENE (surr)						CAS #: 460-00-4		
12.302	12.299	(0.911)	95	204648	50.4857	50.5	70.00- 130.00	100.00
12.303	12.301	(0.911)	174	142087			40.89- 100.89	69.43
12.303	12.300	(0.911)	176	136810			37.00- 97.00	66.85
* 86 1,4-DICHLOROBENZENE-d4 (IS)						CAS #: 3855-82-1		
13.503	13.500	(1.000)	152	190343	50.0000		70.00- 130.00	100.00
13.502	13.500	(1.000)	150	301635			147.70- 207.70	158.47
13.501	13.499	(1.000)	115	125024			34.24- 94.24	65.68

Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10203.D
Report Date: 26-Sep-2002 08:50

PEL Laboratories, Inc.

Data file : \\Vms03\dd\chem\vms03.i\M3092502.b\10203.D
Lab Smp Id: 220910203 Client Smp ID: 03Q30228
Inj Date : 25-SEP-2002 12:47 MS Autotune Date: 29-OCT-2001 10:36
Operator : Inst ID: vms03.i
Smp Info : 220910203;2209102;1;
Misc Info :
Comment :
Method : \\Vms03\dd\chem\vms03.i\M3092502.b\8260A.m
Meth Date : 26-Sep-2002 08:44 lpelo Quant Type: ISTD
Cal Date : 27-AUG-2002 09:41 Cal File: 80PPB.D
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.04 Sample Matrix: WATER
Processing Host: PELCOMP01

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10203.D
Report Date: 26-Sep-2002 08:50

PEL Laboratories, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vms03.i
Lab File ID: 10203.D
Lab Smp Id: 220910203
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\Vms03\dd\chem\vms03.i\M3092502.b\8260A.m
Misc Info:

Calibration Date: 25-SEP-2002
Calibration Time: 06:02
Client Smp ID: 03Q30228
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
42 FLUOROBENZENE (IS	556115	278058	1112230	529700	-4.75
63 CHLOROBENZENE d5	400449	200225	800898	371533	-7.22
86 1,4-DICHLOROBENZE	210064	105032	420128	190343	-9.39

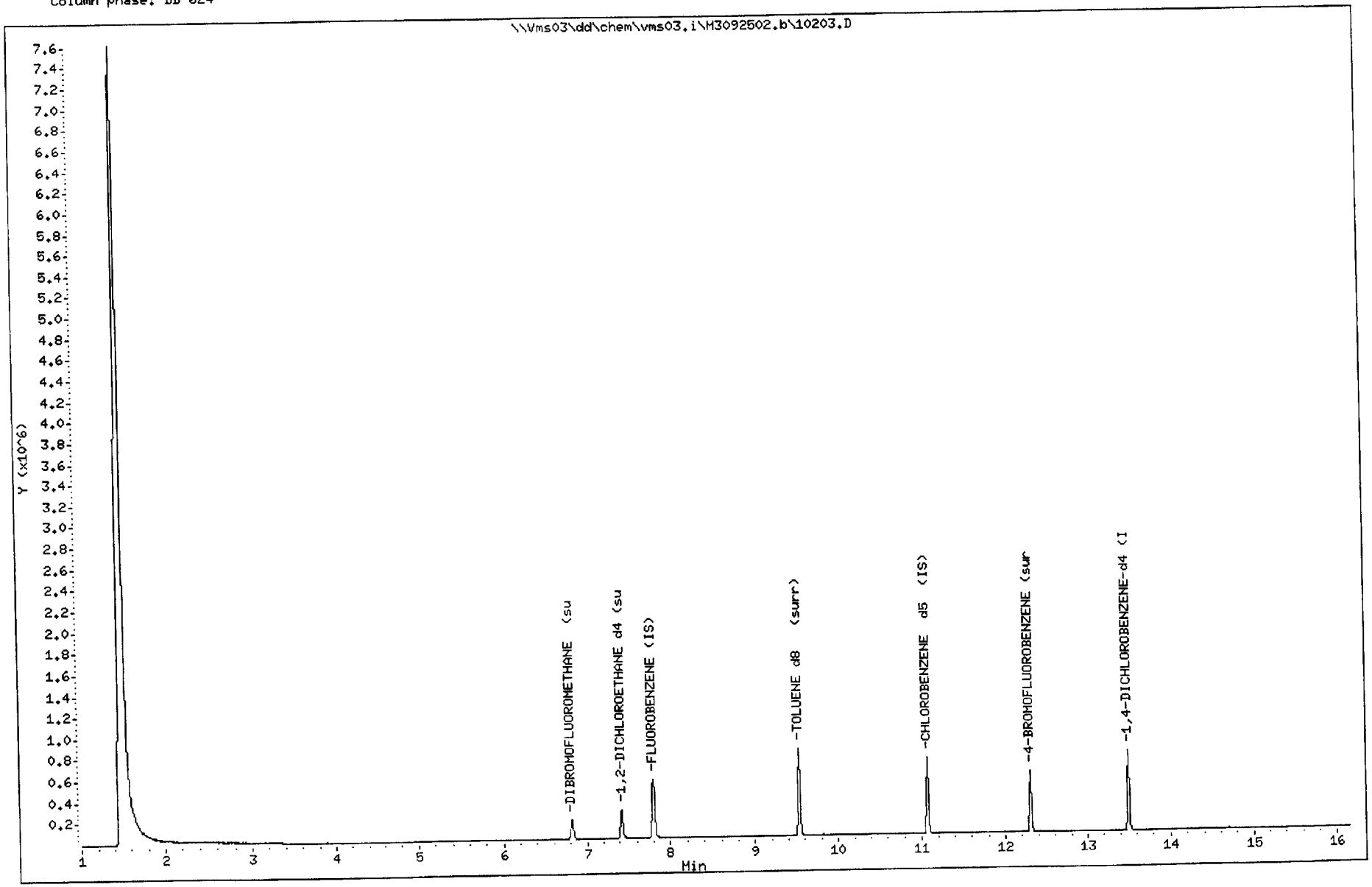
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
42 FLUOROBENZENE (IS	7.79	7.29	8.29	7.80	0.07
63 CHLOROBENZENE d5	11.07	10.57	11.57	11.08	0.03
86 1,4-DICHLOROBENZE	13.50	13.00	14.00	13.50	0.02

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10203.D
Date : 25-SEP-2002 12:47
Client ID: 03Q30228
Sample Info: 220910203;2209102;1;
Purge Volume: 5.0
Column phase: DB-624

Instrument: vms03.i

Operator:
Column diameter: 0.18



Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10204.D
Report Date: 26-Sep-2002 08:50

PEL Laboratories, Inc.

Data file : \\Vms03\dd\chem\vms03.i\M3092502.b\10204.D
Lab Smp Id: 220910204 — Client Smp ID: 04Q30228
Inj Date : 25-SEP-2002 13:11 — MS Autotune Date: 29-OCT-2001 10:36
Operator : — Inst ID: vms03.i
Smp Info : 220910204;2209102;1;
Misc Info :
Comment :
Method : \\Vms03\dd\chem\vms03.i\M3092502.b\8260A.m
Meth Date : 26-Sep-2002 08:44 lpelo — Quant Type: ISTD
Cal Date : 27-AUG-2002 09:41 — Cal File: 80PPB.D
Als bottle: 19
Dil Factor: 1.00000
Integrator: HP Genie — Compound Sublist: all.sub
Target Version: 4.04 — Sample Matrix: WATER
Processing Host: PELCOMP01

Concentration Formula: Amt * DF * Vf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	Final Volume
Vo	5.000	Sample Volume

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/l)	FINAL (ug/l)	TARGET RANGE	RATIO
$ 34 DIBROMOFLUOROMETHANE (surr)						CAS #: 1868-53-7		
6.819	6.810	(0.874)	113	133897	49.4769	49.5	70.00- 130.00	100.00
6.818	6.811	(0.874)	111	138555			71.10- 131.10	103.48
6.821	6.812	(0.875)	192	24551			0.00- 48.24	18.34
$ 39 1,2-DICHLOROETHANE d4 (surr)						CAS #: 17060-07-0		
7.422	7.416	(0.952)	102	33226	50.8461	50.8	70.00- 130.00	100.00
7.421	7.414	(0.952)	65	207133			587.58- 647.58	623.41
7.421	7.414	(0.952)	67	105770			285.16- 345.16	318.34
* 42 FLUOROBENZENE (IS)						CAS #: 462-06-6		
7.798	7.791	(1.000)	96	539450	50.0000		70.00- 130.00	100.00
7.797	7.792	(1.000)	70	115516			0.00- 51.39	21.41
7.798	7.792	(1.000)	50	79715			0.00- 44.57	14.78

Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10204.D
Report Date: 26-Sep-2002 08:50

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/l)	FINAL (ug/l)	TARGET RANGE	RATIO
$ 53 TOLUENE d8 (surr)						CAS #: 2037-26-5		
9.526	9.522	(1.222)	98	567235	49.4562	49.4	70.00- 130.00	100.00
9.527	9.522	(1.222)	70	66452			0.00- 41.87	11.72
9.526	9.522	(1.222)	100	364827			35.37- 95.37	64.32
* 63 CHLOROBENZENE d5 (IS)						CAS #: 3114-55-4		
11.077	11.073	(1.000)	117	381459	50.0000		70.00- 130.00	100.00
11.077	11.074	(1.000)	119	119733			1.25- 61.25	31.39
11.076	11.073	(1.000)	82	232679			30.45- 90.45	61.00
$ 74 4-BROMOFLUOROBENZENE (surr)						CAS #: 460-00-4		
12.302	12.299	(0.911)	95	211663	51.3580	51.4	70.00- 130.00	100.00
12.304	12.301	(0.911)	174	146276			40.89- 100.89	69.11
12.304	12.300	(0.911)	176	141053			37.00- 97.00	66.64
* 86 1,4-DICHLOROBENZENE-d4 (IS)						CAS #: 3855-82-1		
13.502	13.500	(1.000)	152	193524	50.0000		70.00- 130.00	100.00
13.503	13.500	(1.000)	150	305957			147.70- 207.70	158.10
13.501	13.499	(1.000)	115	125358			34.24- 94.24	64.78

Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10204.D
Report Date: 26-Sep-2002 08:50

PEL Laboratories, Inc.

Data file : \\Vms03\dd\chem\vms03.i\M3092502.b\10204.D
Lab Smp Id: 220910204 Client Smp ID: 04Q30228
Inj Date : 25-SEP-2002 13:11 MS Autotune Date: 29-OCT-2001 10:36
Operator : Inst ID: vms03.i
Smp Info : 220910204;2209102;1;
Misc Info :
Comment :
Method : \\Vms03\dd\chem\vms03.i\M3092502.b\8260A.m
Meth Date : 26-Sep-2002 08:44 lpelo Quant Type: ISTD
Cal Date : 27-AUG-2002 09:41 Cal File: 80PPB.D
Als bottle: 19
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.04 Sample Matrix: WATER
Processing Host: PELCOMP01

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10204.D
Report Date: 26-Sep-2002 08:50

PEL Laboratories, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vms03.i
Lab File ID: 10204.D
Lab Smp Id: 220910204
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\Vms03\dd\chem\vms03.i\M3092502.b\8260A.m
Misc Info:

Calibration Date: 25-SEP-2002
Calibration Time: 06:02
Client Smp ID: 04Q30228
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
42 FLUOROBENZENE (IS	556115	278058	1112230	539450	-3.00
63 CHLOROBENZENE d5	400449	200225	800898	381459	-4.74
86 1,4-DICHLOROBENZE	210064	105032	420128	193524	-7.87

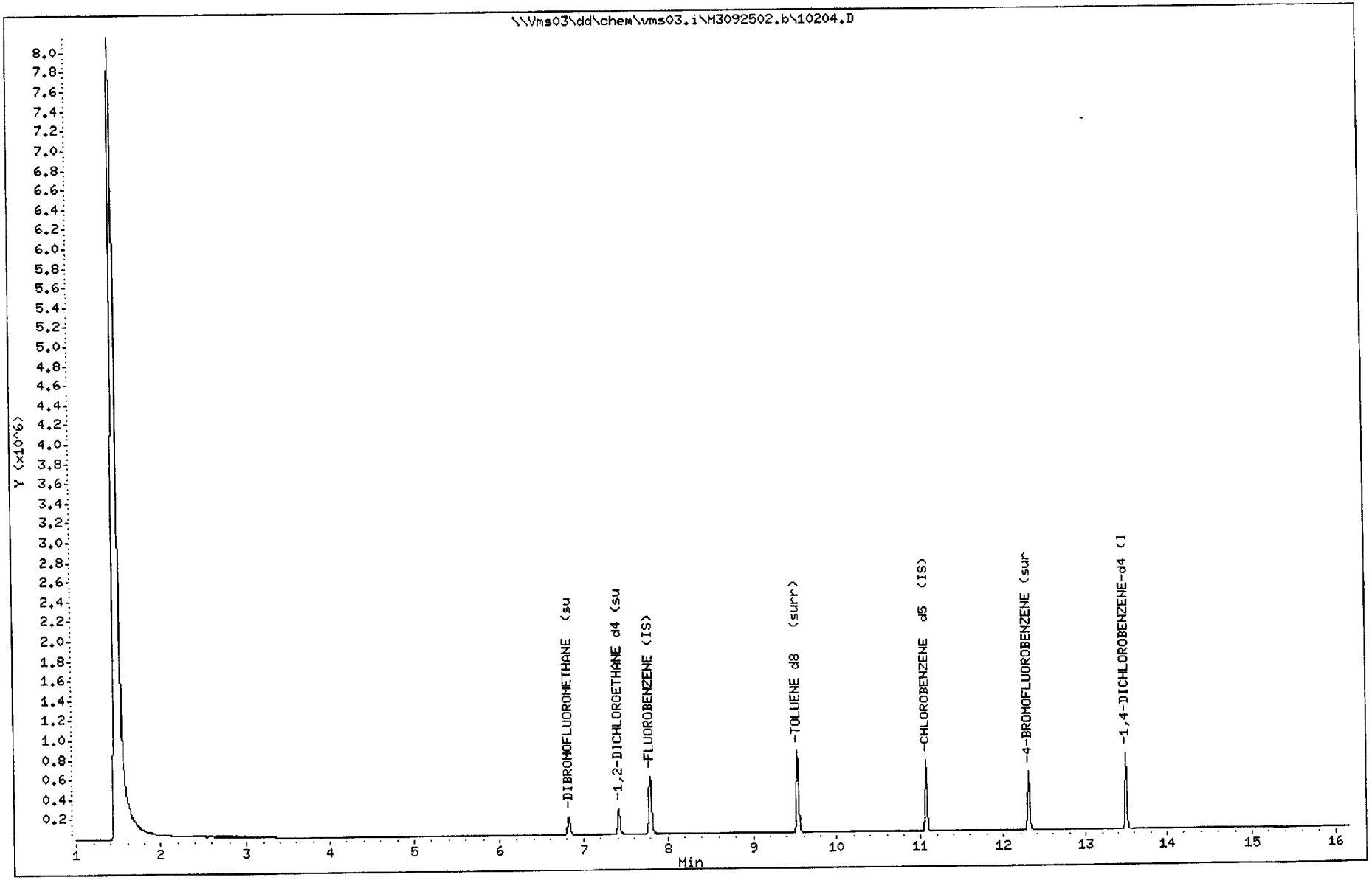
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
42 FLUOROBENZENE (IS	7.79	7.29	8.29	7.80	0.08
63 CHLOROBENZENE d5	11.07	10.57	11.57	11.08	0.04
86 1,4-DICHLOROBENZE	13.50	13.00	14.00	13.50	0.02

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10204.D
Date : 25-SEP-2002 13:11
Client ID: 04Q30228
Sample Info: 220910204;2209102;1;
Purge Volume: 5.0
Column phase: DB-624

Instrument: vms03.i

Operator:
Column diameter: 0.18



Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10205.D
Report Date: 26-Sep-2002 08:51

PEL Laboratories, Inc.

Data file : \\Vms03\dd\chem\vms03.i\M3092502.b\10205.D
Lab Smp Id: 220910205 Client Smp ID: 05Q30228
Inj Date : 25-SEP-2002 13:35 MS Autotune Date: 29-OCT-2001 10:36
Operator : Inst ID: vms03.i
Smp Info : 220910205;2209102;1;
Misc Info :
Comment :
Method : \\Vms03\dd\chem\vms03.i\M3092502.b\8260A.m
Meth Date : 26-Sep-2002 08:44 lpelo Quant Type: ISTD
Cal Date : 27-AUG-2002 09:41 Cal File: 80PPB.D
Als bottle: 20
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.04 Sample Matrix: WATER
Processing Host: PELCOMP01

Concentration Formula: Amt * DF * Vf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	Final Volume
Vo	5.000	Sample Volume

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/l)	FINAL (ug/l)	TARGET RANGE	RATIO
$ 34 DIBROMOFLUOROMETHANE (surr)						CAS #: 1868-53-7		
6.816	6.810	(0.874)	113	127223	47.4772	47.5	70.00- 130.00	100.00
6.819	6.811	(0.874)	111	131323			71.10- 131.10	103.22
6.818	6.812	(0.874)	192	23550			0.00- 48.24	18.51
$ 39 1,2-DICHLOROETHANE d4 (surr)						CAS #: 17060-07-0		
7.421	7.416	(0.952)	102	31581	48.8083	48.8	70.00- 130.00	100.00(Q)
7.421	7.414	(0.952)	65	200588			587.58- 647.58	635.15
7.421	7.414	(0.952)	67	101916			285.16- 345.16	322.71
* 42 FLUOROBENZENE (IS)						CAS #: 462-06-6		
7.798	7.791	(1.000)	96	534150	50.0000		70.00- 130.00	100.00
7.798	7.792	(1.000)	70	113416			0.00- 51.39	21.23
7.796	7.792	(1.000)	50	79659			0.00- 44.57	14.91

Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10205.D
Report Date: 26-Sep-2002 08:51

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/l)	FINAL (ug/l)	TARGET RANGE	RATIO
$ 53 TOLUENE d8 (surr)						CAS #: 2037-26-5		
9.526	9.522	(1.222)	98	543759	47.8798	47.9	70.00- 130.00	100.00
9.526	9.522	(1.222)	70	62812			0.00- 41.87	11.55
9.526	9.522	(1.222)	100	356052			35.37- 95.37	65.48
* 63 CHLOROBENZENE d5 (IS)						CAS #: 3114-55-4		
11.077	11.073	(1.000)	117	378410	50.0000		70.00- 130.00	100.00
11.077	11.074	(1.000)	119	121323			1.25- 61.25	32.06
11.076	11.073	(1.000)	82	233386			30.45- 90.45	61.68
$ 74 4-BROMOFLUOROBENZENE (surr)						CAS #: 460-00-4		
12.302	12.299	(0.911)	95	204460	49.5104	49.5	70.00- 130.00	100.00
12.304	12.301	(0.911)	174	142352			40.89- 100.89	69.62
12.303	12.300	(0.911)	176	137824			37.00- 97.00	67.41
* 86 1,4-DICHLOROBENZENE-d4 (IS)						CAS #: 3855-82-1		
13.503	13.500	(1.000)	152	193914	50.0000		70.00- 130.00	100.00
13.502	13.500	(1.000)	150	302569			147.70- 207.70	156.03
13.502	13.499	(1.000)	115	121195			34.24- 94.24	62.50

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10205.D
Report Date: 26-Sep-2002 08:51

PEL Laboratories, Inc.

Data file : \\Vms03\dd\chem\vms03.i\M3092502.b\10205.D
Lab Smp Id: 220910205 Client Smp ID: 05Q30228
Inj Date : 25-SEP-2002 13:35 MS Autotune Date: 29-OCT-2001 10:36
Operator : Inst ID: vms03.i
Smp Info : 220910205;2209102;1;
Misc Info :
Comment :
Method : \\Vms03\dd\chem\vms03.i\M3092502.b\8260A.m
Meth Date : 26-Sep-2002 08:44 lpelo Quant Type: ISTD
Cal Date : 27-AUG-2002 09:41 Cal File: 80PPB.D
Als bottle: 20
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.04 Sample Matrix: WATER
Processing Host: PELCOMP01

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10205.D
Report Date: 26-Sep-2002 08:51

PEL Laboratories, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vms03.i
Lab File ID: 10205.D
Lab Smp Id: 220910205
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\Vms03\dd\chem\vms03.i\M3092502.b\8260A.m
Misc Info:

Calibration Date: 25-SEP-2002
Calibration Time: 06:02
Client Smp ID: 05Q30228
Level: LOW
Sample Type: WATER

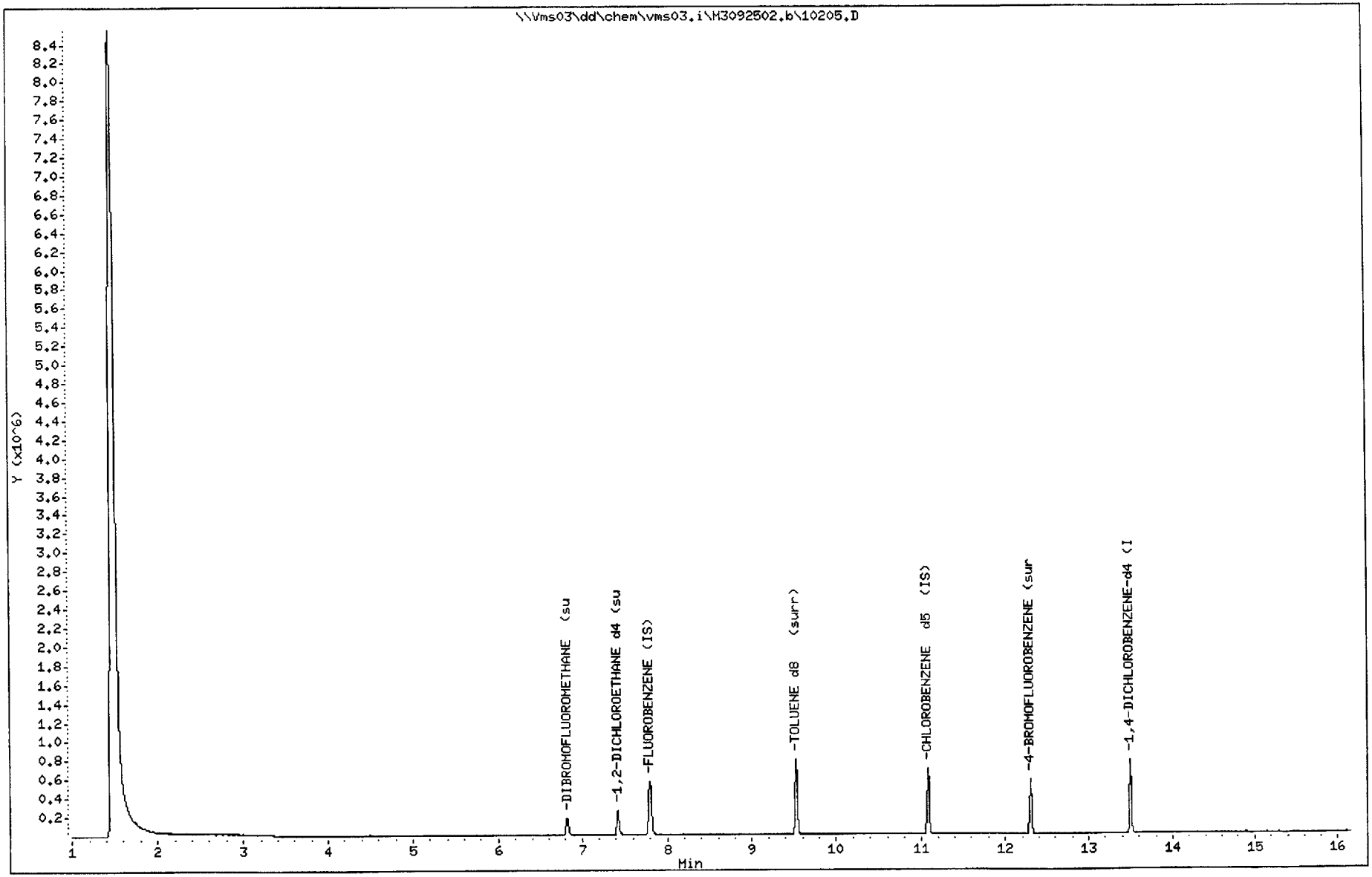
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
42 FLUOROBENZENE (IS	556115	278058	1112230	534150	-3.95
63 CHLOROBENZENE d5	400449	200225	800898	378410	-5.50
86 1,4-DICHLOROBENZE	210064	105032	420128	193914	-7.69

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
42 FLUOROBENZENE (IS	7.79	7.29	8.29	7.80	0.08
63 CHLOROBENZENE d5	11.07	10.57	11.57	11.08	0.03
86 1,4-DICHLOROBENZE	13.50	13.00	14.00	13.50	0.02

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10205.D
Date : 25-SEP-2002 13:35
Client ID: 05Q30228
Sample Info: 220910205;2209102;1;
Purge Volume: 5.0
Column phase: DB-624

Instrument: vms03.i
Operator:
Column diameter: 0.18



Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10206.D
Report Date: 26-Sep-2002 08:51

PEL Laboratories, Inc.

Data file : \\Vms03\dd\chem\vms03.i\M3092502.b\10206.D
Lab Smp Id: 220910206 — Client Smp ID: 06Q30228
Inj Date : 25-SEP-2002 14:00 — MS Autotune Date: 29-OCT-2001 10:36
Operator : — Inst ID: vms03.i
Smp Info : 220910206;2209102;1;
Misc Info :
Comment :
Method : \\Vms03\dd\chem\vms03.i\M3092502.b\8260A.m
Meth Date : 26-Sep-2002 08:44 lpelo — Quant Type: ISTD
Cal Date : 27-AUG-2002 09:41 — Cal File: 80PPB.D
Als bottle: 21
Dil Factor: 1.00000
Integrator: HP Genie — Compound Sublist: all.sub
Target Version: 4.04 — Sample Matrix: WATER
Processing Host: PELCOMP01

Concentration Formula: Amt * DF * Vf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	Final Volume
Vo	5.000	Sample Volume

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/l)	FINAL (ug/l)	TARGET RANGE	RATIO
$ 34 DIBROMOFLUOROMETHANE (surr)						CAS #: 1868-53-7		
6.818	6.810	(0.874)	113	131264	49.8335	49.8	70.00- 130.00	100.00
6.819	6.811	(0.875)	111	135008			71.10- 131.10	102.85
6.821	6.812	(0.875)	192	24267			0.00- 48.24	18.49
$ 39 1,2-DICHLOROETHANE d4 (surr)						CAS #: 17060-07-0		
7.423	7.416	(0.952)	102	33366	52.4599	52.4	70.00- 130.00	100.00
7.421	7.414	(0.952)	65	205285			587.58- 647.58	615.25
7.422	7.414	(0.952)	67	103573			285.16- 345.16	310.41
* 42 FLUOROBENZENE (IS)						CAS #: 462-06-6		
7.797	7.791	(1.000)	96	525058	50.0000		70.00- 130.00	100.00
7.796	7.792	(1.000)	70	112235			0.00- 51.39	21.38
7.797	7.792	(1.000)	50	79964			0.00- 44.57	15.23

Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10206.D
Report Date: 26-Sep-2002 08:51

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/l)	FINAL (ug/l)	TARGET RANGE	RATIO
$ 53 TOLUENE d8 (surr)						CAS #: 2037-26-5		
9.526	9.522	(1.222)	98	548210	49.1076	49.1	70.00- 130.00	100.00
9.527	9.522	(1.222)	70	62744			0.00- 41.87	11.45
9.526	9.522	(1.222)	100	360273			35.37- 95.37	65.72
* 63 CHLOROBENZENE d5 (IS)						CAS #: 3114-55-4		
11.077	11.073	(1.000)	117	378355	50.0000		70.00- 130.00	100.00
11.077	11.074	(1.000)	119	119434			1.25- 61.25	31.57
11.076	11.073	(1.000)	82	232069			30.45- 90.45	61.34
$ 74 4-BROMOFLUOROBENZENE (surr)						CAS #: 460-00-4		
12.302	12.299	(0.911)	95	206698	50.1444	50.1	70.00- 130.00	100.00
12.304	12.301	(0.911)	174	140652			40.89- 100.89	68.05
12.305	12.300	(0.911)	176	137533			37.00- 97.00	66.54
* 86 1,4-DICHLOROBENZENE-d4 (IS)						CAS #: 3855-82-1		
13.503	13.500	(1.000)	152	193558	50.0000		70.00- 130.00	100.00
13.503	13.500	(1.000)	150	305433			147.70- 207.70	157.80
13.502	13.499	(1.000)	115	124174			34.24- 94.24	64.15

Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10206.D
Report Date: 26-Sep-2002 08:51

PEL Laboratories, Inc.

Data file : \\Vms03\dd\chem\vms03.i\M3092502.b\10206.D
Lab Smp Id: 220910206 Client Smp ID: 06Q30228
Inj Date : 25-SEP-2002 14:00 MS Autotune Date: 29-OCT-2001 10:36
Operator : Inst ID: vms03.i
Smp Info : 220910206;2209102;1;
Misc Info :
Comment :
Method : \\Vms03\dd\chem\vms03.i\M3092502.b\8260A.m
Meth Date : 26-Sep-2002 08:44 lpelo Quant Type: ISTD
Cal Date : 27-AUG-2002 09:41 Cal File: 80PPB.D
Als bottle: 21
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.04 Sample Matrix: WATER
Processing Host: PELCOMP01

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10206.D
Report Date: 26-Sep-2002 08:51

PEL Laboratories, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vms03.i
Lab File ID: 10206.D
Lab Smp Id: 220910206
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\Vms03\dd\chem\vms03.i\M3092502.b\8260A.m
Misc Info:

Calibration Date: 25-SEP-2002
Calibration Time: 06:02
Client Smp ID: 06Q30228
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
42 FLUOROBENZENE (IS	556115	278058	1112230	525058	-5.58
63 CHLOROBENZENE d5	400449	200225	800898	378355	-5.52
86 1,4-DICHLOROBENZE	210064	105032	420128	193558	-7.86

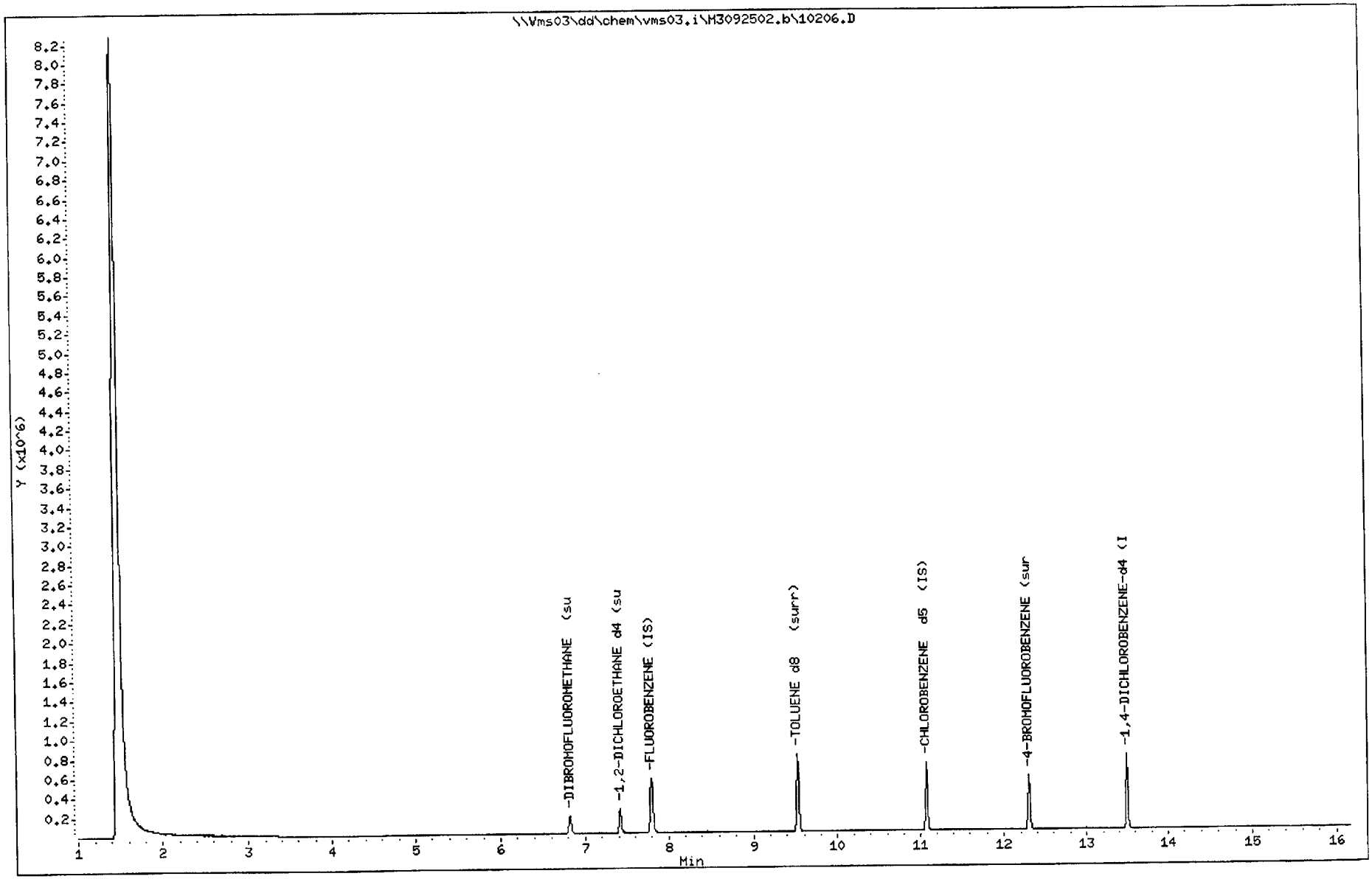
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
42 FLUOROBENZENE (IS	7.79	7.29	8.29	7.80	0.08
63 CHLOROBENZENE d5	11.07	10.57	11.57	11.08	0.03
86 1,4-DICHLOROBENZE	13.50	13.00	14.00	13.50	0.02

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10206.D
Date : 25-SEP-2002 14:00
Client ID: 06Q30228
Sample Info: 220910206;2209102;1;
Purge Volume: 5.0
Column phase: DB-624

Instrument: vms03.i

Operator:
Column diameter: 0.18



Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10207.D
Report Date: 26-Sep-2002 08:51

PEL Laboratories, Inc.

Data file : \\Vms03\dd\chem\vms03.i\M3092502.b\10207.D
Lab Smp Id: 220910207 — Client Smp ID: 07Q30228
Inj Date : 25-SEP-2002 14:24 — MS Autotune Date: 29-OCT-2001 10:36
Operator : — Inst ID: vms03.i
Smp Info : 220910207;2209102;1;
Misc Info :
Comment :
Method : \\Vms03\dd\chem\vms03.i\M3092502.b\8260A.m
Meth Date : 26-Sep-2002 08:44 lpelo — Quant Type: ISTD
Cal Date : 27-AUG-2002 09:41 — Cal File: 80PPB.D
Als bottle: 22
Dil Factor: 1.00000
Integrator: HP Genie — Compound Sublist: all.sub
Target Version: 4.04 — Sample Matrix: WATER
Processing Host: PELCOMP01

Concentration Formula: Amt * DF * Vf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	Final Volume
Vo	5.000	Sample Volume

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/l)	FINAL (ug/l)	TARGET RANGE	RATIO
$ 34 DIBROMOFLUOROMETHANE (surr)						CAS #: 1868-53-7		
6.819	6.810	(0.875)	113	133982	49.5573	49.6	70.00- 130.00	100.00
6.817	6.811	(0.874)	111	137869			71.10- 131.10	102.90
6.819	6.812	(0.875)	192	24604			0.00- 48.24	18.36
$ 39 1,2-DICHLOROETHANE d4 (surr)						CAS #: 17060-07-0		
7.421	7.416	(0.952)	102	34595	52.9935	53.0	70.00- 130.00	100.00
7.421	7.414	(0.952)	65	210089			587.58- 647.58	607.28
7.421	7.414	(0.952)	67	103927			285.16- 345.16	300.41
* 42 FLUOROBENZENE (IS)						CAS #: 462-06-6		
7.797	7.791	(1.000)	96	538917	50.0000		70.00- 130.00	100.00
7.798	7.792	(1.000)	70	114896			0.00- 51.39	21.32
7.798	7.792	(1.000)	50	79930			0.00- 44.57	14.83

Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10207.D
Report Date: 26-Sep-2002 08:51

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/l)	FINAL (ug/l)	TARGET RANGE	RATIO
$ 53 TOLUENE d8 (surr)						CAS #: 2037-26-5		
9.526	9.522	(1.222)	98	559865	48.8619	48.9	70.00- 130.00	100.00
9.526	9.522	(1.222)	70	65435			0.00- 41.87	11.69
9.526	9.522	(1.222)	100	365341			35.37- 95.37	65.26
* 63 CHLOROBENZENE d5 (IS)						CAS #: 3114-55-4		
11.077	11.073	(1.000)	117	376985	50.0000		70.00- 130.00	100.00
11.076	11.074	(1.000)	119	122058			1.25- 61.25	32.38
11.076	11.073	(1.000)	82	233491			30.45- 90.45	61.94
$ 74 4-BROMOFLUOROBENZENE (surr)						CAS #: 460-00-4		
12.302	12.299	(0.911)	95	211650	50.6061	50.6	70.00- 130.00	100.00
12.303	12.301	(0.911)	174	144144			40.89- 100.89	68.10
12.303	12.300	(0.911)	176	142339			37.00- 97.00	67.25
* 86 1,4-DICHLOROBENZENE-d4 (IS)						CAS #: 3855-82-1		
13.502	13.500	(1.000)	152	196387	50.0000		70.00- 130.00	100.00
13.503	13.500	(1.000)	150	305053			147.70- 207.70	155.33
13.502	13.499	(1.000)	115	127814			34.24- 94.24	65.08

Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10207.D
Report Date: 26-Sep-2002 08:51

PEL Laboratories, Inc.

Data file : \\Vms03\dd\chem\vms03.i\M3092502.b\10207.D
Lab Smp Id: 220910207 Client Smp ID: 07Q30228
Inj Date : 25-SEP-2002 14:24 MS Autotune Date: 29-OCT-2001 10:36
Operator : Inst ID: vms03.i
Smp Info : 220910207;2209102;1;
Misc Info :
Comment :
Method : \\Vms03\dd\chem\vms03.i\M3092502.b\8260A.m
Meth Date : 26-Sep-2002 08:44 lpelo Quant Type: ISTD
Cal Date : 27-AUG-2002 09:41 Cal File: 80PPB.D
Als bottle: 22
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.04 Sample Matrix: WATER
Processing Host: PELCOMP01

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10207.D
Report Date: 26-Sep-2002 08:51

PEL Laboratories, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vms03.i
Lab File ID: 10207.D
Lab Smp Id: 220910207
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\Vms03\dd\chem\vms03.i\M3092502.b\8260A.m
Misc Info:

Calibration Date: 25-SEP-2002
Calibration Time: 06:02
Client Smp ID: 07Q30228
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
42 FLUOROBENZENE (IS	556115	278058	1112230	538917	-3.09
63 CHLOROBENZENE d5	400449	200225	800898	376985	-5.86
86 1,4-DICHLOROBENZE	210064	105032	420128	196387	-6.51

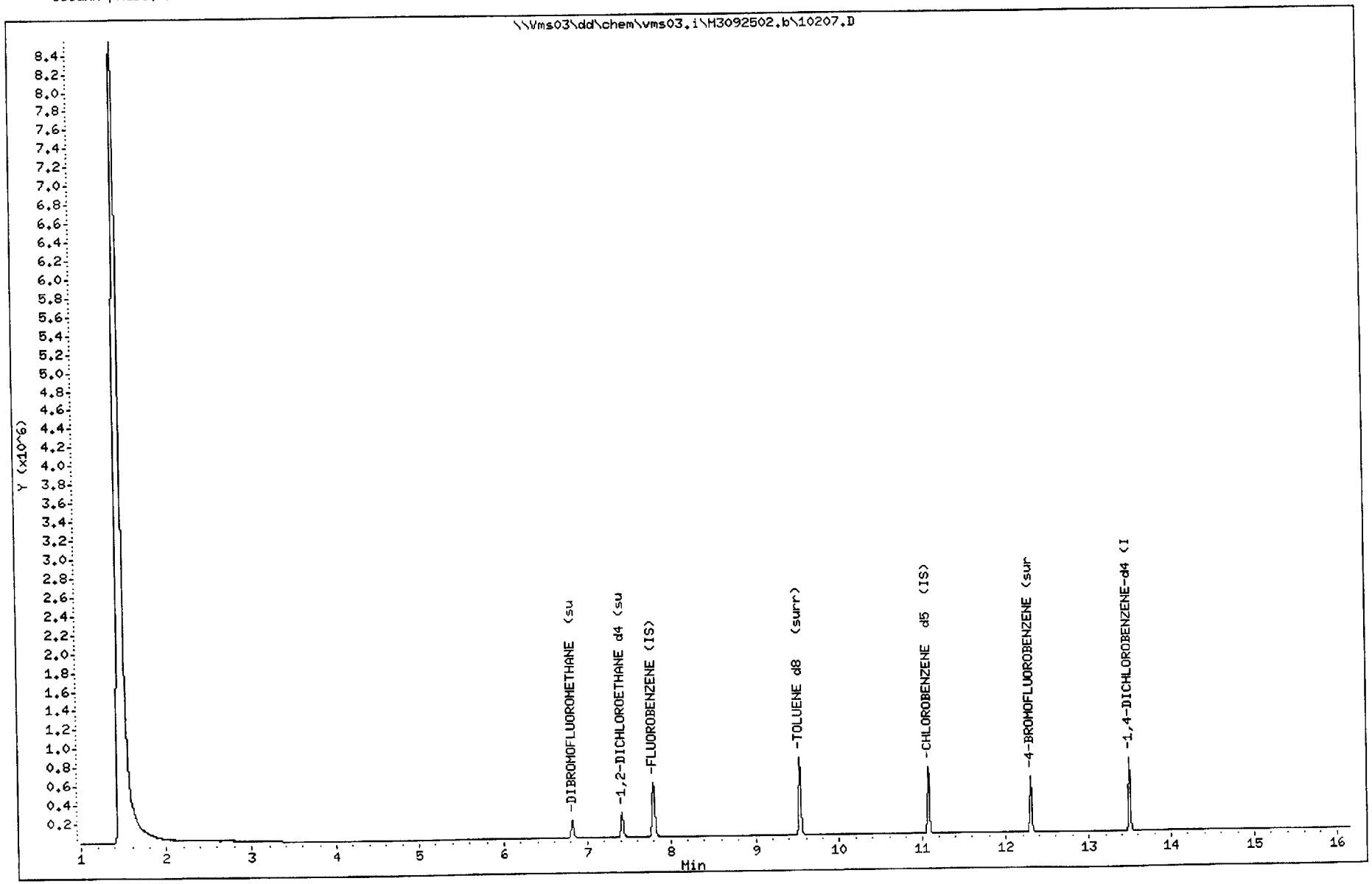
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
42 FLUOROBENZENE (IS	7.79	7.29	8.29	7.80	0.07
63 CHLOROBENZENE d5	11.07	10.57	11.57	11.08	0.03
86 1,4-DICHLOROBENZE	13.50	13.00	14.00	13.50	0.02

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10207.D
Date : 25-SEP-2002 14:24
Client ID: 07Q30228
Sample Info: 220910207;2209102;1;
Purge Volume: 5.0
Column phase: DB-624

Instrument: vms03.i

Operator:
Column diameter: 0.18



Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10208.D
Report Date: 26-Sep-2002 08:52

PEL Laboratories, Inc.

Data file : \\Vms03\dd\chem\vms03.i\M3092502.b\10208.D
Lab Smp Id: 220910208 — Client Smp ID: 10Q30228
Inj Date : 25-SEP-2002 14:48 — MS Autotune Date: 29-OCT-2001 10:36
Operator : — Inst ID: vms03.i
Smp Info : 220910208;2209102;1;
Misc Info :
Comment :
Method : \\Vms03\dd\chem\vms03.i\M3092502.b\8260A.m
Meth Date : 26-Sep-2002 08:44 lpelo — Quant Type: ISTD
Cal Date : 27-AUG-2002 09:41 — Cal File: 80PPB.D
Als bottle: 23
Dil Factor: 1.00000
Integrator: HP Genie — Compound Sublist: all.sub
Target Version: 4.04 — Sample Matrix: WATER
Processing Host: PELCOMP01

Concentration Formula: Amt * DF * Vf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	Final Volume
Vo	5.000	Sample Volume

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/l)	FINAL (ug/l)	TARGET RANGE	RATIO
$ 34 DIBROMOFLUOROMETHANE (surr)						CAS #: 1868-53-7		
6.819	6.810	(0.874)	113	132426	50.2942	50.3	70.00- 130.00	100.00
6.818	6.811	(0.874)	111	134372			71.10- 131.10	101.47
6.822	6.812	(0.875)	192	23801			0.00- 48.24	17.97
$ 39 1,2-DICHLOROETHANE d4 (surr)						CAS #: 17060-07-0		
7.423	7.416	(0.952)	102	33561	52.7870	52.8	70.00- 130.00	100.00
7.419	7.414	(0.951)	65	208664			587.58- 647.58	621.75
7.421	7.414	(0.952)	67	101536			285.16- 345.16	302.54
* 42 FLUOROBENZENE (IS)						CAS #: 462-06-6		
7.798	7.791	(1.000)	96	524854	50.0000		70.00- 130.00	100.00
7.798	7.792	(1.000)	70	113479			0.00- 51.39	21.62
7.797	7.792	(1.000)	50	80243			0.00- 44.57	15.29

Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10208.D
Report Date: 26-Sep-2002 08:52

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/l)	FINAL (ug/l)	TARGET RANGE	RATIO
$ 53 TOLUENE d8 (surr)						CAS #: 2037-26-5		
9.527	9.522	(1.222)	98	548376	49.1416	49.1	70.00- 130.00	100.00
9.527	9.522	(1.222)	70	64059			0.00- 41.87	11.68
9.526	9.522	(1.222)	100	361582			35.37- 95.37	65.94
* 63 CHLOROBENZENE d5 (IS)						CAS #: 3114-55-4		
11.077	11.073	(1.000)	117	374214	50.0000		70.00- 130.00	100.00
11.077	11.074	(1.000)	119	121570			1.25- 61.25	32.49
11.076	11.073	(1.000)	82	229322			30.45- 90.45	61.28
$ 74 4-BROMOFLUOROBENZENE (surr)						CAS #: 460-00-4		
12.302	12.299	(0.911)	95	206168	48.9712	49.0	70.00- 130.00	100.00
12.304	12.301	(0.911)	174	143578			40.89- 100.89	69.64
12.303	12.300	(0.911)	176	138886			37.00- 97.00	67.37
* 86 1,4-DICHLOROBENZENE-d4 (IS)						CAS #: 3855-82-1		
13.503	13.500	(1.000)	152	197687	50.0000		70.00- 130.00	100.00
13.503	13.500	(1.000)	150	304871			147.70- 207.70	154.22
13.502	13.499	(1.000)	115	126743			34.24- 94.24	64.11

Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10208.D
Report Date: 26-Sep-2002 08:52

PEL Laboratories, Inc.

Data file : \\Vms03\dd\chem\vms03.i\M3092502.b\10208.D
Lab Smp Id: 220910208 Client Smp ID: 10Q30228
Inj Date : 25-SEP-2002 14:48 MS Autotune Date: 29-OCT-2001 10:36
Operator : Inst ID: vms03.i
Smp Info : 220910208;2209102;1;
Misc Info :
Comment :
Method : \\Vms03\dd\chem\vms03.i\M3092502.b\8260A.m
Meth Date : 26-Sep-2002 08:44 lpelo Quant Type: ISTD
Cal Date : 27-AUG-2002 09:41 Cal File: 80PPB.D
Als bottle: 23
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.04 Sample Matrix: WATER
Processing Host: PELCOMP01

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10208.D
Report Date: 26-Sep-2002 08:52

PEL Laboratories, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vms03.i
Lab File ID: 10208.D
Lab Smp Id: 220910208
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\Vms03\dd\chem\vms03.i\M3092502.b\8260A.m
Misc Info:

Calibration Date: 25-SEP-2002
Calibration Time: 06:02
Client Smp ID: 10Q30228
Level: LOW
Sample Type: WATER

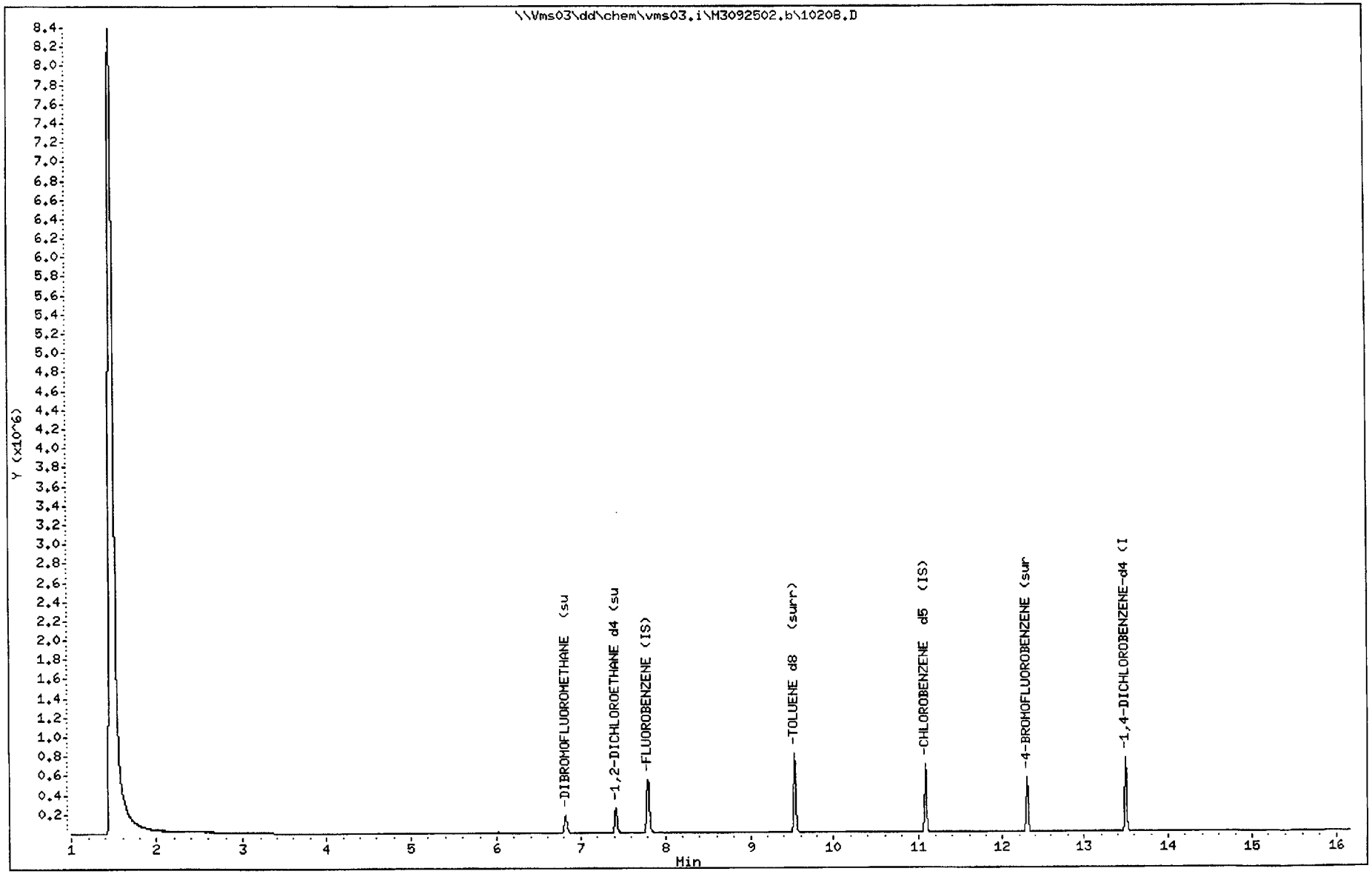
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
42 FLUOROBENZENE (IS	556115	278058	1112230	524854	-5.62
63 CHLOROBENZENE d5	400449	200225	800898	374214	-6.55
86 1,4-DICHLOROBENZE	210064	105032	420128	197687	-5.89

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
42 FLUOROBENZENE (IS	7.79	7.29	8.29	7.80	0.08
63 CHLOROBENZENE d5	11.07	10.57	11.57	11.08	0.03
86 1,4-DICHLOROBENZE	13.50	13.00	14.00	13.50	0.02

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10208.D
Date : 25-SEP-2002 14:48
Client ID: 10Q30228
Sample Info: 220910208;2209102;1;
Purge Volume: 5.0
Column phase: DB-624

Instrument: vms03.i
Operator:
Column diameter: 0.18



Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10201.D
Report Date: 26-Sep-2002 08:52

PEL Laboratories, Inc.

Data file : \\Vms03\dd\chem\vms03.i\M3092502.b\10201.D
Lab Smp Id: 220910201 Client Smp ID: 01Q30228
Inj Date : 25-SEP-2002 15:12 MS Autotune Date: 29-OCT-2001 10:36
Operator : Inst ID: vms03.i
Smp Info : 220910201;2209102;1;
Misc Info :
Comment :
Method : \\Vms03\dd\chem\vms03.i\M3092502.b\8260A.m
Meth Date : 26-Sep-2002 08:44 lpelo Quant Type: ISTD
Cal Date : 27-AUG-2002 09:41 Cal File: 80PPB.D
Als bottle: 24
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.04 Sample Matrix: WATER
Processing Host: PELCOMP01

Concentration Formula: Amt * DF * Vf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	Final Volume
Vo	5.000	Sample Volume

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/l)	FINAL (ug/l)	TARGET RANGE	RATIO
$ 34 DIBROMOFLUOROMETHANE (surr)							CAS #: 1868-53-7	
6.819	6.810	(0.874)	113	128557	48.5973	48.6	70.00- 130.00	100.00
6.817	6.811	(0.874)	111	134753			71.10- 131.10	104.82
6.819	6.812	(0.875)	192	23885			0.00- 48.24	18.58
$ 39 1,2-DICHLOROETHANE d4 (surr)							CAS #: 17060-07-0	
7.420	7.416	(0.952)	102	33156	51.9070	51.9	70.00- 130.00	100.00
7.421	7.414	(0.952)	65	204020			587.58- 647.58	615.33
7.421	7.414	(0.952)	67	103998			285.16- 345.16	313.66
* 42 FLUOROBENZENE (IS)							CAS #: 462-06-6	
7.798	7.791	(1.000)	96	527311	50.0000		70.00- 130.00	100.00
7.797	7.792	(1.000)	70	112617			0.00- 51.39	21.36
7.796	7.792	(1.000)	50	77875			0.00- 44.57	14.77

Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10201.D
Report Date: 26-Sep-2002 08:52

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/l)	CONCENTRATIONS FINAL (ug/l)	TARGET RANGE	RATIO
$ 53 TOLUENE d8 (surr)						CAS #: 2037-26-5		
9.526	9.522	(1.222)	98	547981	48.8774	48.9	70.00- 130.00	100.00
9.526	9.522	(1.222)	70	63831			0.00- 41.87	11.65
9.526	9.522	(1.222)	100	360390			35.37- 95.37	65.77
* 63 CHLOROBENZENE d5 (IS)						CAS #: 3114-55-4		
11.077	11.073	(1.000)	117	375335	50.0000		70.00- 130.00	100.00
11.077	11.074	(1.000)	119	119756			1.25- 61.25	31.91
11.076	11.073	(1.000)	82	230335			30.45- 90.45	61.37
$ 74 4-BROMOFLUOROBENZENE (surr)						CAS #: 460-00-4		
12.301	12.299	(0.911)	95	203644	49.0111	49.0	70.00- 130.00	100.00
12.303	12.301	(0.911)	174	142405			40.89- 100.89	69.93
12.303	12.300	(0.911)	176	135435			37.00- 97.00	66.51
* 86 1,4-DICHLOROBENZENE-d4 (IS)						CAS #: 3855-82-1		
13.502	13.500	(1.000)	152	195108	50.0000		70.00- 130.00	100.00
13.502	13.500	(1.000)	150	308730			147.70- 207.70	158.24
13.501	13.499	(1.000)	115	124746			34.24- 94.24	63.94

Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10201.D
Report Date: 26-Sep-2002 08:52

PEL Laboratories, Inc.

Data file : \\Vms03\dd\chem\vms03.i\M3092502.b\10201.D
Lab Smp Id: 220910201 Client Smp ID: 01Q30228
Inj Date : 25-SEP-2002 15:12 MS Autotune Date: 29-OCT-2001 10:36
Operator : Inst ID: vms03.i
Smp Info : 220910201;2209102;1;
Misc Info :
Comment :
Method : \\Vms03\dd\chem\vms03.i\M3092502.b\8260A.m
Meth Date : 26-Sep-2002 08:44 lpelo Quant Type: ISTD
Cal Date : 27-AUG-2002 09:41 Cal File: 80PPB.D
Als bottle: 24
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.04 Sample Matrix: WATER
Processing Host: PELCOMP01

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10201.D
Report Date: 26-Sep-2002 08:52

PEL Laboratories, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vms03.i
Lab File ID: 10201.D
Lab Smp Id: 220910201
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\Vms03\dd\chem\vms03.i\M3092502.b\8260A.m
Misc Info:

Calibration Date: 25-SEP-2002
Calibration Time: 06:02
Client Smp ID: 01Q30228
Level: LOW
Sample Type: WATER

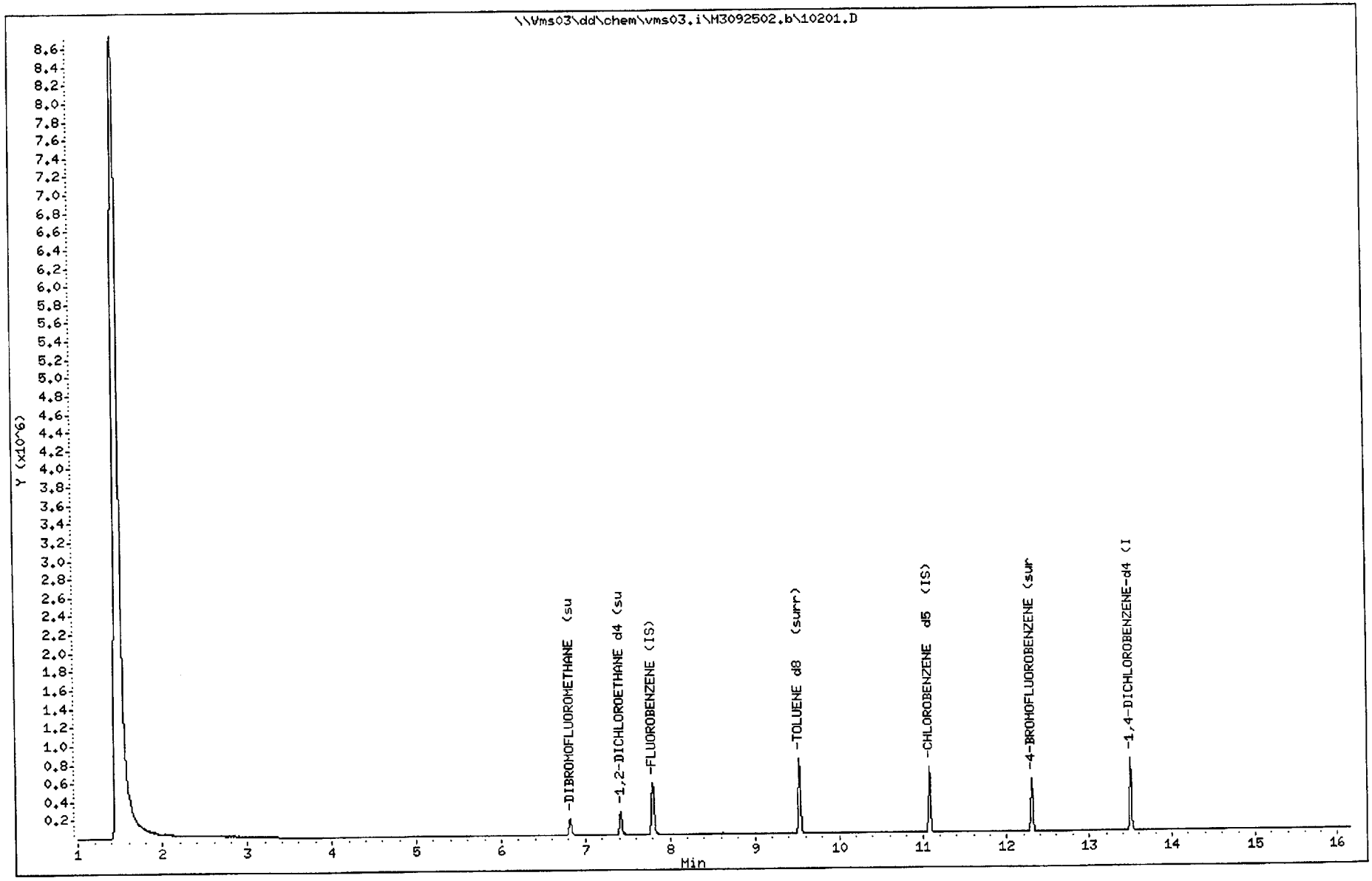
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
42 FLUOROBENZENE (IS	556115	278058	1112230	527311	-5.18
63 CHLOROBENZENE d5	400449	200225	800898	375335	-6.27
86 1,4-DICHLOROBENZE	210064	105032	420128	195108	-7.12

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
42 FLUOROBENZENE (IS	7.79	7.29	8.29	7.80	0.08
63 CHLOROBENZENE d5	11.07	10.57	11.57	11.08	0.03
86 1,4-DICHLOROBENZE	13.50	13.00	14.00	13.50	0.02

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10201.D
Date : 25-SEP-2002 15:12
Client ID: 01Q30228
Sample Info: 220910201;2209102;1;
Purge Volume: 5.0
Column phase: DB-624

Instrument: vms03.i
Operator:
Column diameter: 0.18



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Report Date: 26-Sep-2002 08:53

PEL Laboratories, Inc.

Data file : \\Vms03\dd\chem\vms03.i\M3092502.b\10212.D
Lab Smp Id: 220910212 Client Smp ID: DUPQ30228
Inj Date : 25-SEP-2002 15:36 MS Autotune Date: 29-OCT-2001 10:36
Operator : Inst ID: vms03.i
Smp Info : 220910212;2209102;1;
Misc Info :
Comment :
Method : \\Vms03\dd\chem\vms03.i\M3092502.b\8260A.m
Meth Date : 26-Sep-2002 08:44 lpelo Quant Type: ISTD
Cal Date : 27-AUG-2002 09:41 Cal File: 80PPB.D
Als bottle: 25
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.04 Sample Matrix: WATER
Processing Host: PELCOMP01

Concentration Formula: Amt * DF * Vf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	Final Volume
Vo	5.000	Sample Volume

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/l)	FINAL (ug/l)	TARGET RANGE	RATIO
$ 34 DIBROMOFLUOROMETHANE (surr)						CAS #: 1868-53-7		
6.818	6.810	(0.874)	113	128848	49.0480	49.0	70.00- 130.00	100.00
6.816	6.811	(0.874)	111	133385			71.10- 131.10	103.52
6.819	6.812	(0.874)	192	24135			0.00- 48.24	18.73
$ 39 1,2-DICHLOROETHANE d4 (surr)						CAS #: 17060-07-0		
7.420	7.416	(0.952)	102	34754	54.7894	54.8	70.00- 130.00	100.00
7.420	7.414	(0.952)	65	205014			587.58- 647.58	589.90
7.420	7.414	(0.952)	67	102409			285.16- 345.16	294.67
* 42 FLUOROBENZENE (IS)						CAS #: 462-06-6		
7.797	7.791	(1.000)	96	523648	50.0000		70.00- 130.00	100.00
7.797	7.792	(1.000)	70	113163			0.00- 51.39	21.61
7.797	7.792	(1.000)	50	78123			0.00- 44.57	14.92

Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10212.D
Report Date: 26-Sep-2002 08:53

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/l)	FINAL (ug/l)	TARGET RANGE	RATIO
$ 53 TOLUENE d8 (surr)						CAS #: 2037-26-5		
9.526	9.522	(1.222)	98	548410	49.2578	49.2	70.00- 130.00	100.00
9.525	9.522	(1.222)	70	63696			0.00- 41.87	11.61
9.526	9.522	(1.222)	100	358961			35.37- 95.37	65.45
* 63 CHLOROBENZENE d5 (IS)						CAS #: 3114-55-4		
11.077	11.073	(1.000)	117	372236	50.0000		70.00- 130.00	100.00
11.077	11.074	(1.000)	119	117930			1.25- 61.25	31.68
11.076	11.073	(1.000)	82	229159			30.45- 90.45	61.56
$ 74 4-BROMOFLUOROBENZENE (surr)						CAS #: 460-00-4		
12.302	12.299	(0.911)	95	207436	50.6035	50.6	70.00- 130.00	100.00
12.304	12.301	(0.911)	174	141453			40.89- 100.89	68.19
12.304	12.300	(0.911)	176	139326			37.00- 97.00	67.17
* 86 1,4-DICHLOROBENZENE-d4 (IS)						CAS #: 3855-82-1		
13.502	13.500	(1.000)	152	192487	50.0000		70.00- 130.00	100.00
13.502	13.500	(1.000)	150	303664			147.70- 207.70	157.76
13.503	13.499	(1.000)	115	122223			34.24- 94.24	63.50

Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10212.D
Report Date: 26-Sep-2002 08:53

PEL Laboratories, Inc.

Data file : \\Vms03\dd\chem\vms03.i\M3092502.b\10212.D
Lab Smp Id: 220910212 Client Smp ID: DUPQ30228
Inj Date : 25-SEP-2002 15:36 MS Autotune Date: 29-OCT-2001 10:36
Operator : Inst ID: vms03.i
Smp Info : 220910212;2209102;1;
Misc Info :
Comment :
Method : \\Vms03\dd\chem\vms03.i\M3092502.b\8260A.m
Meth Date : 26-Sep-2002 08:44 lpelo Quant Type: ISTD
Cal Date : 27-AUG-2002 09:41 Cal File: 80PPB.D
Als bottle: 25
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.04 Sample Matrix: WATER
Processing Host: PELCOMP01

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10212.D
Report Date: 26-Sep-2002 08:53

PEL Laboratories, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vms03.i
Lab File ID: 10212.D
Lab Smp Id: 220910212
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\Vms03\dd\chem\vms03.i\M3092502.b\8260A.m
Misc Info:

Calibration Date: 25-SEP-2002
Calibration Time: 06:02
Client Smp ID: DUPQ30228
Level: LOW
Sample Type: WATER

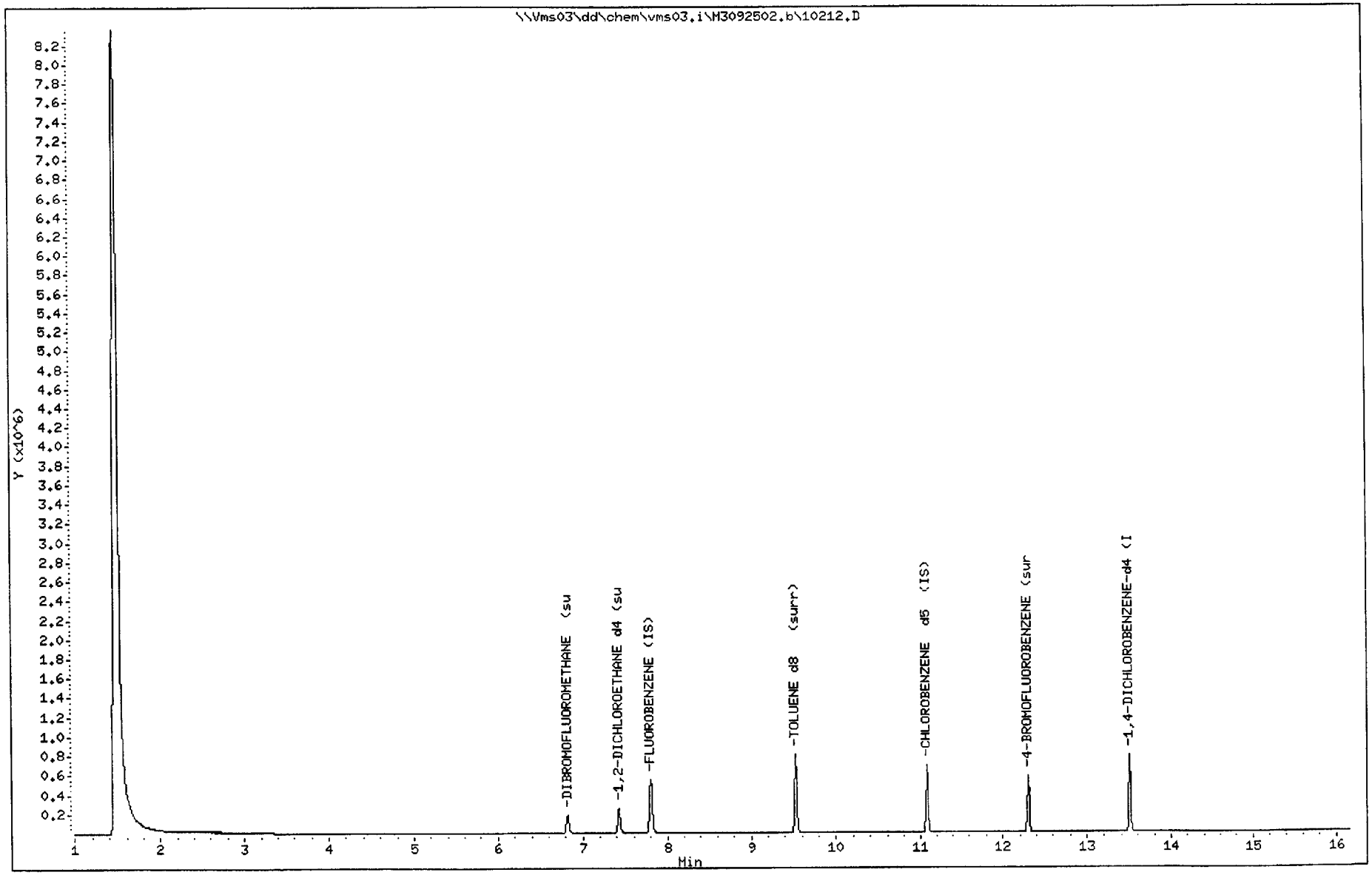
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
42 FLUOROBENZENE (IS	556115	278058	1112230	523648	-5.84
63 CHLOROBENZENE d5	400449	200225	800898	372236	-7.05
86 1,4-DICHLOROBENZE	210064	105032	420128	192487	-8.37

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
42 FLUOROBENZENE (IS	7.79	7.29	8.29	7.80	0.08
63 CHLOROBENZENE d5	11.07	10.57	11.57	11.08	0.03
86 1,4-DICHLOROBENZE	13.50	13.00	14.00	13.50	0.02

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10212.D
Date : 25-SEP-2002 15:36
Client ID: DUPQ30228
Sample Info: 220910212;2209102;1;
Purge Volume: 5.0
Column phase: DB-624

Instrument: vms03.i
Operator:
Column diameter: 0.18



Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10213.D
Report Date: 26-Sep-2002 08:53

PEL Laboratories, Inc.

Data file : \\Vms03\dd\chem\vms03.i\M3092502.b\10213.D
Lab Smp Id: 220910213 Client Smp ID: EQBQ30228
Inj Date : 25-SEP-2002 16:00 MS Autotune Date: 29-OCT-2001 10:36
Operator : Inst ID: vms03.i
Smp Info : 220910213;2209102;1;
Misc Info :
Comment :
Method : \\Vms03\dd\chem\vms03.i\M3092502.b\8260A.m
Meth Date : 26-Sep-2002 08:44 lpelo Quant Type: ISTD
Cal Date : 27-AUG-2002 09:41 Cal File: 80PPB.D
Als bottle: 26
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.04 Sample Matrix: WATER
Processing Host: PELCOMP01

Concentration Formula: Amt * DF * Vf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	Final Volume
Vo	5.000	Sample Volume

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/l)	FINAL (ug/l)	TARGET RANGE	RATIO
$ 34 DIBROMOFLUOROMETHANE (surr)						CAS #: 1868-53-7		
6.818	6.810	(0.874)	113	134850	50.5607	50.6	70.00- 130.00	100.00
6.818	6.811	(0.874)	111	132757			71.10- 131.10	98.45
6.821	6.812	(0.875)	192	23868			0.00- 48.24	17.70
$ 39 1,2-DICHLOROETHANE d4 (surr)						CAS #: 17060-07-0		
7.422	7.416	(0.952)	102	33035	51.2961	51.3	70.00- 130.00	100.00(Q)
7.421	7.414	(0.952)	65	210806			587.58- 647.58	638.13
7.421	7.414	(0.952)	67	103895			285.16- 345.16	314.50
* 42 FLUOROBENZENE (IS)						CAS #: 462-06-6		
7.798	7.791	(1.000)	96	531644	50.0000		70.00- 130.00	100.00
7.798	7.792	(1.000)	70	113989			0.00- 51.39	21.44
7.796	7.792	(1.000)	50	78493			0.00- 44.57	14.76

Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10213.D
Report Date: 26-Sep-2002 08:53

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/l)	FINAL (ug/l)	TARGET RANGE	RATIO
$ 53 TOLUENE d8 (surr)						CAS #: 2037-26-5		
9.526	9.522	(1.222)	98	559989	49.5413	49.5	70.00- 130.00	100.00
9.525	9.522	(1.222)	70	66196			0.00- 41.87	11.82
9.526	9.522	(1.222)	100	362188			35.37- 95.37	64.68
54 Toluene						CAS #: 108-88-3		
9.606	9.604	(1.232)	92	4920	0.66302	0.66	70.00- 130.00	100.00(a)
9.609	9.604	(1.232)	91	8805			140.41- 200.41	178.96
9.607	9.603	(1.232)	65	1123			0.00- 52.96	22.83
* 63 CHLOROBENZENE d5 (IS)						CAS #: 3114-55-4		
11.077	11.073	(1.000)	117	372299	50.0000		70.00- 130.00	100.00
11.077	11.074	(1.000)	119	118207			1.25- 61.25	31.75
11.075	11.073	(1.000)	82	230331			30.45- 90.45	61.87
$ 74 4-BROMOFLUOROBENZENE (surr)						CAS #: 460-00-4		
12.302	12.299	(0.911)	95	207050	50.2298	50.2	70.00- 130.00	100.00
12.304	12.301	(0.911)	174	142831			40.89- 100.89	68.98
12.304	12.300	(0.911)	176	141492			37.00- 97.00	68.34
* 86 1,4-DICHLOROBENZENE-d4 (IS)						CAS #: 3855-82-1		
13.502	13.500	(1.000)	152	193558	50.0000		70.00- 130.00	100.00
13.502	13.500	(1.000)	150	307728			147.70- 207.70	158.98
13.501	13.499	(1.000)	115	124017			34.24- 94.24	64.07

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10213.D
Report Date: 26-Sep-2002 08:53

PEL Laboratories, Inc.

Data file : \\Vms03\dd\chem\vms03.i\M3092502.b\10213.D
Lab Smp Id: 220910213 Client Smp ID: EQBQ30228
Inj Date : 25-SEP-2002 16:00 MS Autotune Date: 29-OCT-2001 10:36
Operator : Inst ID: vms03.i
Smp Info : 220910213;2209102;1;
Misc Info :
Comment :
Method : \\Vms03\dd\chem\vms03.i\M3092502.b\8260A.m
Meth Date : 26-Sep-2002 08:44 lpelo Quant Type: ISTD
Cal Date : 27-AUG-2002 09:41 Cal File: 80PPB.D
Als bottle: 26
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.04 Sample Matrix: WATER
Processing Host: PELCOMP01

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10213.D
Report Date: 26-Sep-2002 08:53

PEL Laboratories, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vms03.i
Lab File ID: 10213.D
Lab Smp Id: 220910213
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\Vms03\dd\chem\vms03.i\M3092502.b\8260A.m
Misc Info:

Calibration Date: 25-SEP-2002
Calibration Time: 06:02
Client Smp ID: EQBQ30228
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
42 FLUOROBENZENE (IS	556115	278058	1112230	531644	-4.40
63 CHLOROBENZENE d5	400449	200225	800898	372299	-7.03
86 1,4-DICHLOROBENZE	210064	105032	420128	193558	-7.86

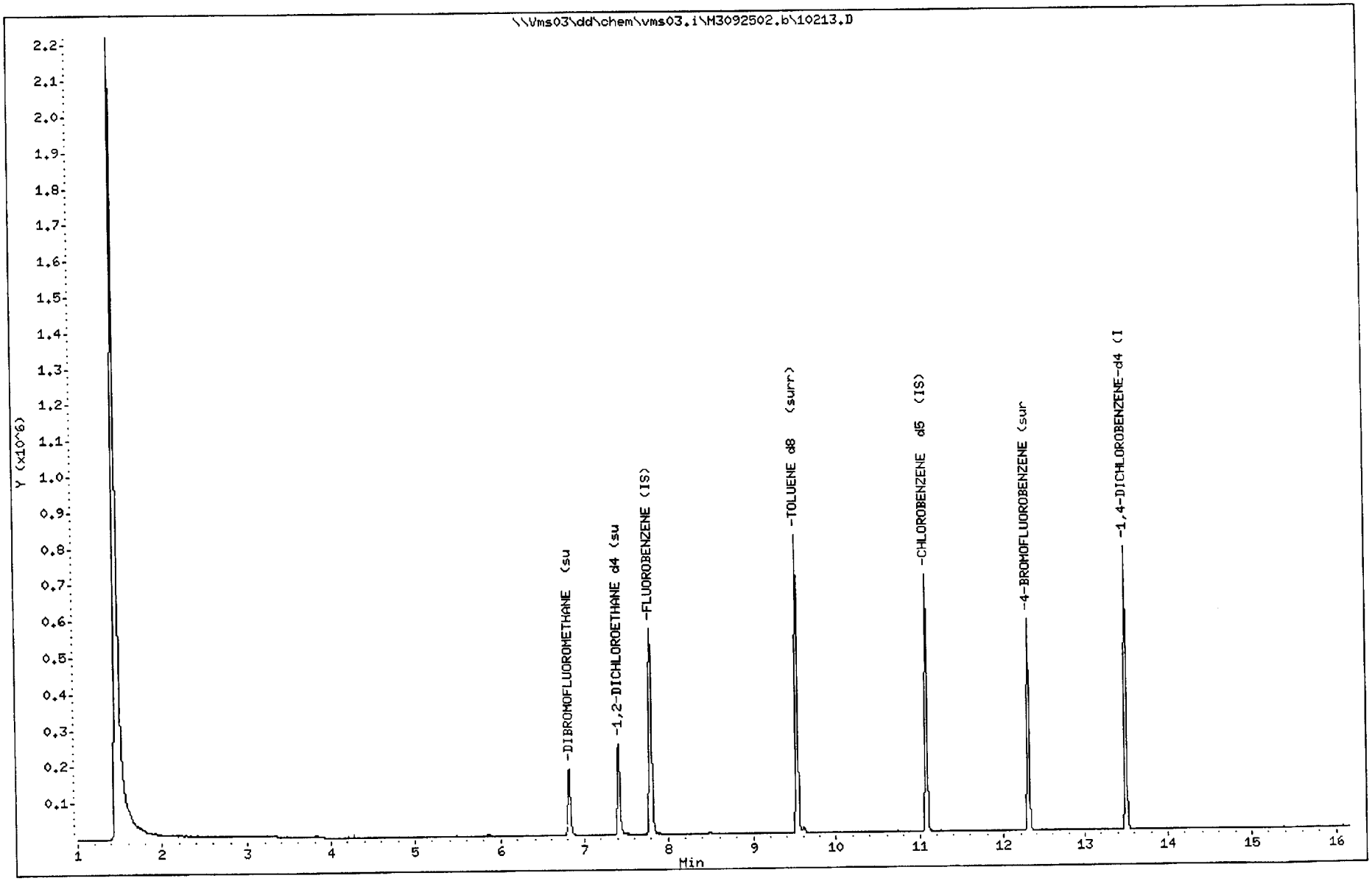
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
42 FLUOROBENZENE (IS	7.79	7.29	8.29	7.80	0.08
63 CHLOROBENZENE d5	11.07	10.57	11.57	11.08	0.03
86 1,4-DICHLOROBENZE	13.50	13.00	14.00	13.50	0.02

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10213.D
Date : 25-SEP-2002 16:00
Client ID: EQBQ30228
Sample Info: 220910213;2209102;1;
Purge Volume: 5.0
Column phase: DB-624

Instrument: vms03.i

Operator:
Column diameter: 0.18



Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10213.D

Date : 25-SEP-2002 16:00

Client ID: EQBQ30228

Instrument: vms03.i

Sample Info: 220910213;2209102;1;

Operator:

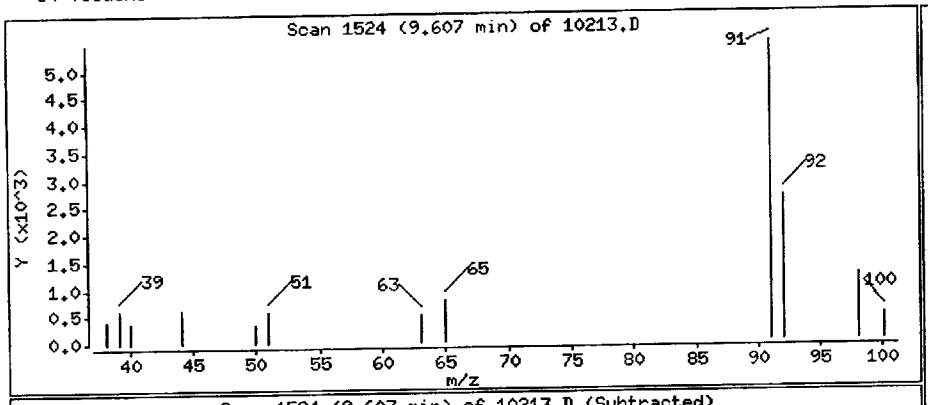
Purge Volume: 5.0

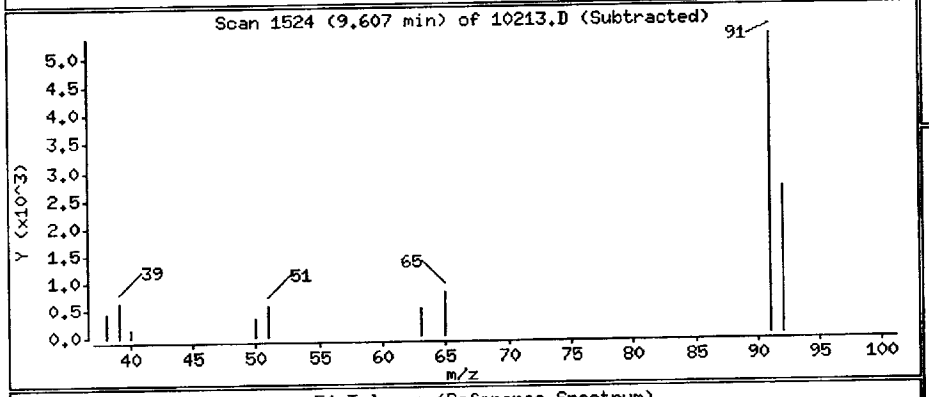
Column diameter: 0.18

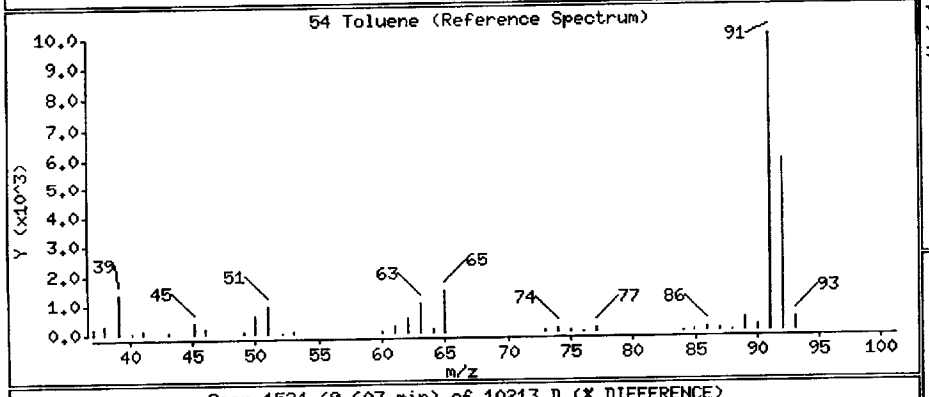
Column phase: DB-624

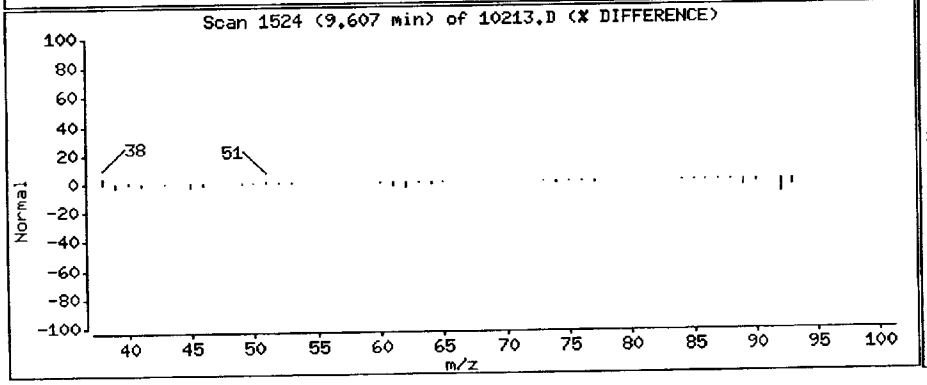
Concentration: 0.66 ug/l

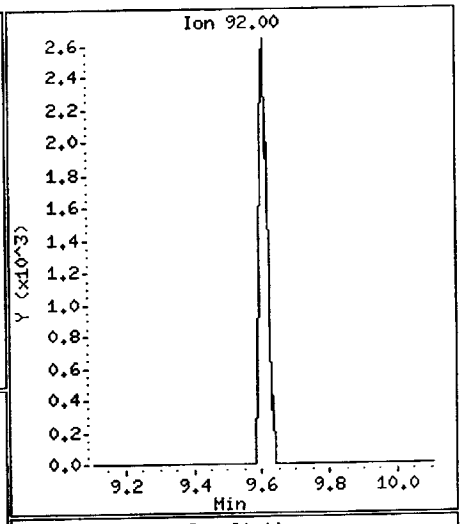
54 Toluene

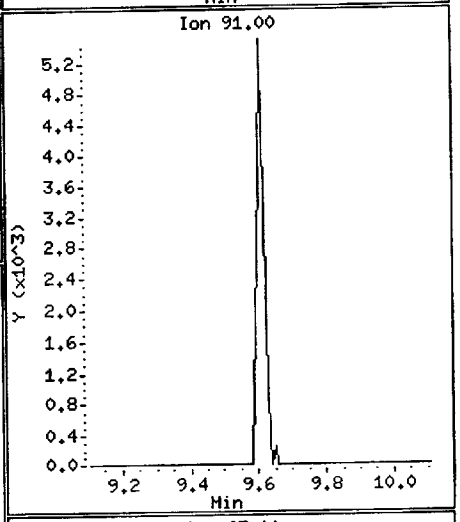


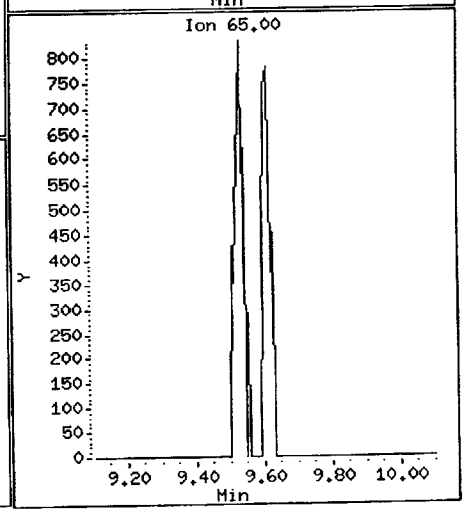












Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10214.D
Report Date: 26-Sep-2002 08:53

PEL Laboratories, Inc.

Data file : \\Vms03\dd\chem\vms03.i\M3092502.b\10214.D
Lab Smp Id: 220910214 — Client Smp ID: TBQ30228
Inj Date : 25-SEP-2002 16:24 — MS Autotune Date: 29-OCT-2001 10:36
Operator : — Inst ID: vms03.i
Smp Info : 220910214;2209102;1;
Misc Info :
Comment :
Method : \\Vms03\dd\chem\vms03.i\M3092502.b\8260A.m
Meth Date : 26-Sep-2002 08:44 lpelo — Quant Type: ISTD
Cal Date : 27-AUG-2002 09:41 — Cal File: 80PPB.D
Als bottle: 27
Dil Factor: 1.00000
Integrator: HP Genie — Compound Sublist: all.sub
Target Version: 4.04 — Sample Matrix: WATER
Processing Host: PELCOMP01

Concentration Formula: Amt * DF * Vf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	Final Volume
Vo	5.000	Sample Volume

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/l)	FINAL (ug/l)	TARGET RANGE	RATIO
$ 34 DIBROMOFLUOROMETHANE (surr)						CAS #: 1868-53-7		
6.819	6.810	(0.874)	113	132929	50.5002	50.5	70.00- 130.00	100.00
6.818	6.811	(0.874)	111	136290			71.10- 131.10	102.53
6.821	6.812	(0.875)	192	23786			0.00- 48.24	17.89
$ 39 1,2-DICHLOROETHANE d4 (surr)						CAS #: 17060-07-0		
7.423	7.416	(0.952)	102	32435	51.0312	51.0	70.00- 130.00	100.00
7.420	7.414	(0.952)	65	203766			587.58- 647.58	628.23
7.421	7.414	(0.952)	67	99993			285.16- 345.16	308.29
* 42 FLUOROBENZENE (IS)						CAS #: 462-06-6		
7.798	7.791	(1.000)	96	524698	50.0000		70.00- 130.00	100.00
7.796	7.792	(1.000)	70	113601			0.00- 51.39	21.65
7.796	7.792	(1.000)	50	77836			0.00- 44.57	14.83

Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10214.D
Report Date: 26-Sep-2002 08:53

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/l)	CONCENTRATIONS FINAL (ug/l)	TARGET RANGE	RATIO
$ 53 TOLUENE d8 (surr)						CAS #: 2037-26-5		
9.525	9.522	(1.222)	98	553191	49.5878	49.6	70.00- 130.00	100.00
9.525	9.522	(1.222)	70	64931			0.00- 41.87	11.74
9.525	9.522	(1.222)	100	360164			35.37- 95.37	65.11
* 63 CHLOROBENZENE d5 (IS)						CAS #: 3114-55-4		
11.077	11.073	(1.000)	117	376090	50.0000		70.00- 130.00	100.00
11.077	11.074	(1.000)	119	119820			1.25- 61.25	31.86
11.076	11.073	(1.000)	82	228755			30.45- 90.45	60.82
$ 74 4-BROMOFLUOROBENZENE (surr)						CAS #: 460-00-4		
12.302	12.299	(0.911)	95	208570	51.1589	51.2	70.00- 130.00	100.00
12.303	12.301	(0.911)	174	144436			40.89- 100.89	69.25
12.303	12.300	(0.911)	176	139209			37.00- 97.00	66.74
* 86 1,4-DICHLOROBENZENE-d4 (IS)						CAS #: 3855-82-1		
13.502	13.500	(1.000)	152	191438	50.0000		70.00- 130.00	100.00
13.502	13.500	(1.000)	150	301498			147.70- 207.70	157.49
13.501	13.499	(1.000)	115	122600			34.24- 94.24	64.04

Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10214.D
Report Date: 26-Sep-2002 08:53

PEL Laboratories, Inc.

Data file : \\Vms03\dd\chem\vms03.i\M3092502.b\10214.D
Lab Smp Id: 220910214 Client Smp ID: TBQ30228
Inj Date : 25-SEP-2002 16:24 MS Autotune Date: 29-OCT-2001 10:36
Operator : Inst ID: vms03.i
Smp Info : 220910214;2209102;1;
Misc Info :
Comment :
Method : \\Vms03\dd\chem\vms03.i\M3092502.b\8260A.m
Meth Date : 26-Sep-2002 08:44 lpelo Quant Type: ISTD
Cal Date : 27-AUG-2002 09:41 Cal File: 80PPB.D
Als bottle: 27
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.04 Sample Matrix: WATER
Processing Host: PELCOMP01

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10214.D
Report Date: 26-Sep-2002 08:53

PEL Laboratories, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vms03.i
Lab File ID: 10214.D
Lab Smp Id: 220910214
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\Vms03\dd\chem\vms03.i\M3092502.b\8260A.m
Misc Info:

Calibration Date: 25-SEP-2002
Calibration Time: 06:02
Client Smp ID: TBQ30228
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
42 FLUOROBENZENE (IS	556115	278058	1112230	524698	-5.65
63 CHLOROBENZENE d5	400449	200225	800898	376090	-6.08
86 1,4-DICHLOROBENZE	210064	105032	420128	191438	-8.87

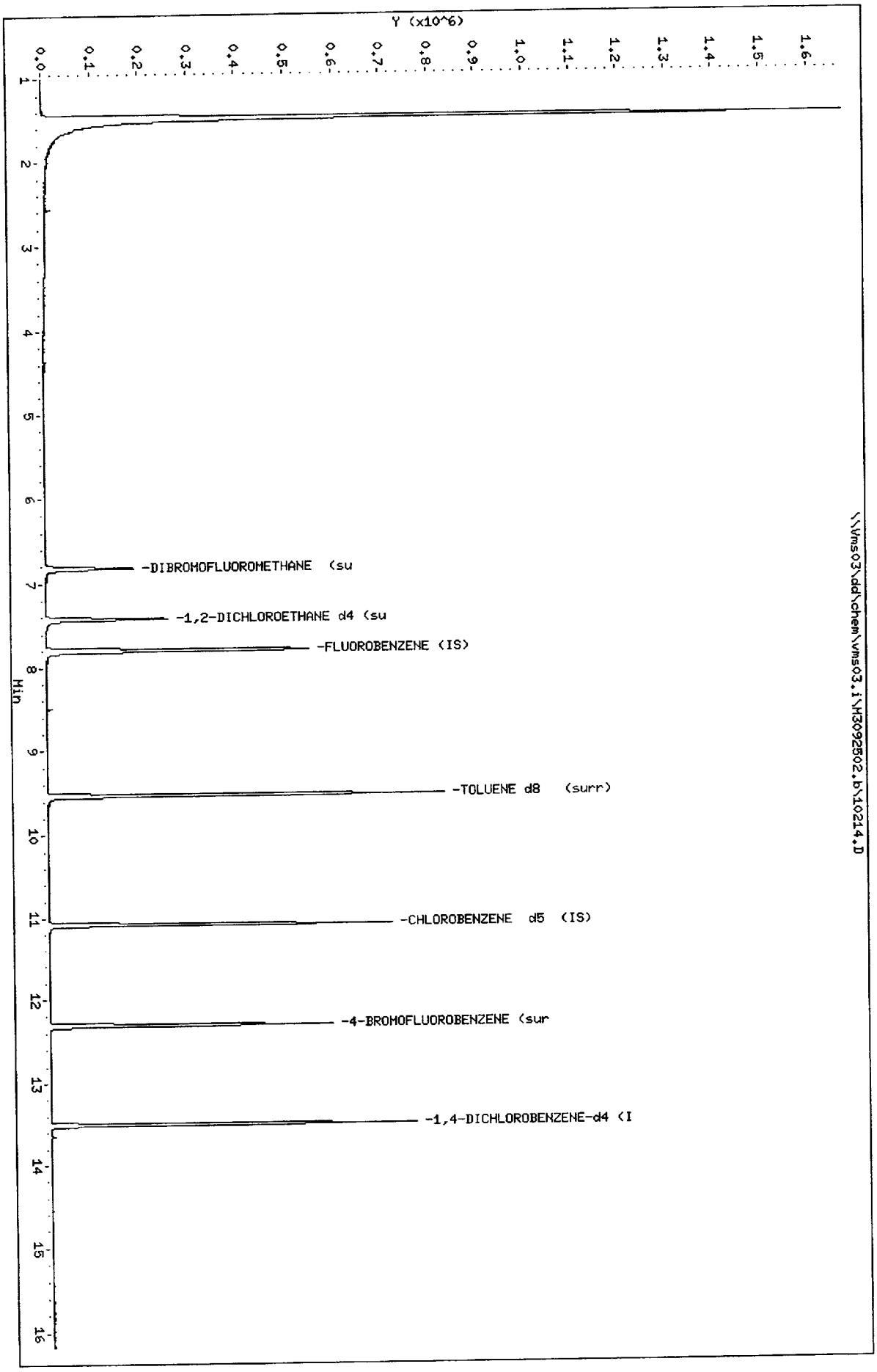
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
42 FLUOROBENZENE (IS	7.79	7.29	8.29	7.80	0.08
63 CHLOROBENZENE d5	11.07	10.57	11.57	11.08	0.03
86 1,4-DICHLOROBENZE	13.50	13.00	14.00	13.50	0.02

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\Vms03\dd\chem\vms03.i\M3092502.b\10214.D
Date : 25-SEP-2002 16:24
Client ID: TBQ30228
Sample Info: 22091021 4;22091021 2;1;
Purge Volume: 5.0
Column phase: DB-624

Instrument: vms03.i
Operator:
Column diameter: 0.18

\\Vms03\dd\chem\vms03.i\M3092502.b\10214.D



2209-102
Raw Data
HPLC Semi-Volatile Organics
(Method 8310)

PEL LABORATORIES, INC.

DATE: 9/16/02 (MJ)

Extraction/Analysis Method: 3510/8310 (Waters)

Batch # 4930

Sample Number	BLK	LCS	RWMS	RWMSD	2209102-10MS	2209102-11SD	2209102-01	2209102-02	2209102-03	2209102-04
Sample Date					9/12/02					
Description		H2O			CH2MHill 11Q30228MS	11Q30228SD	01Q30228	02Q30228	03Q30228	04Q30228
Odor					None	None	None	None	None	None
Color					Brown	Brown	Yellow	Yellow	Brown	Yellow
Sed.					No	No	No	No	~~No~~ Slight (MJ)	No
Vol./ Wt.	1000				920	945	950	950	930	920
pH	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
Surrogate ID (SV6486)	SV6486 1mL @ 20µg/mL KC	KC	KC	KC	KC	KC	KC	KC	KC	KC
Spike ID (SV)	N/A	SV6162 1mL @ 10µg/mL KC					N/A			
ISTD	N/A									
Final Solvent	ACN									
Final Vol. (ml)	1.0mL									
Date Completed/By:	9/16/02 (MJ)									
Remarks					Super Large Brown Emulsion.	Super Large Brown Emulsion.	~~Super~~ (MJ) Large ~~Brown~~ White Emulsion	Super Large White Emulsion.	Super Large Dark Emulsion.	Large Brown Emulsion
Stock Loc. Box/Row	R,3								R,4	
Spike Witness		KC	KC	KC	KC	KC				

T.V. 61071-241

Base Lot# N/A

INCAPACITATE R+D

Bath Temp 51°C

703

Extraction/Analysis Method: 3510/8310 (Waters)

PEL LABORATORIES, INC.

Batch # 4930

DATE: 9/16/02 (MJ)

Sample Number	2209102 -05	2209102 -06	2209102 -07	2209102 -08	2209102 -09	2209102 -12	2209102 -13	2209079 -01	2209079 -02	2209079 -03
Sample Date	9/12/02	→	→	→	→	→	9/13/02	9/11/02	→	→
Description	CH2MHill 05Q30228	06Q30228	07Q30228	10Q30228	11Q30228	DUPQ30228	EQBQ30228	ESM MW-2	MW-5D	RW-1
Odor	None	None	None	None	Slight Sweet	None	None	None	Slight Fuel	Slight Fuel
Color	Yellow Tint	Clear	Yellow Tint	Yellow Tint	Brown	Yellow Tint	Clear	Yellow	Yellow	Yellow
Sed.	No	No	No	No	Slight	No	No	No	No	No
Vol./ Wt.	930	900	960	950	945	935	940	1000	905	1000
pH	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
Surrogate ID	KC SV6486	KC 1mL	KC @ 20µg/mL	KC	KC	KC	KC	AW	AW	AW →
Spike ID	N/A	→	→	→	→	→	→	→	→	→
ISTD	N/A	→	→	→	→	→	→	→	→	→
Final Solvent	ACN	→	→	→	→	→	→	→	DCM	ACN →
Final Vol. (ml)	1.0mL	→	→	→	→	→	→	→	→	→
Date Completed/By:	9/16/02 (MJ)	→	→	→	→	→	→	→	→	→
Remarks	Slight Emulsion.		Slight Emulsion.	Large Emulsion.	Large Brown Emulsion.	Large Light Color Emulsion.		Super Large Emulsion.	Super Large Emulsion. *Sample was extremely	Super Large Emulsion.
Stock Loc. Box/Row	R.14	→	→	→	→	→	→	→	Hard to work with. R15	R15
Spike Witness										

*Sample 09-02 was vialed by Kesner method 1:5 dilution in one vial and in the other vial is the sample R+J

T.V. 61071-241

Base Lot # N/A

Acid Lot# N/A

Extraction Lot # KM: 05665F R+J

Final Solvent Lot # ACN: 05544F

Bath Temp 51°C

Extraction/Analysis Method: 3510/8310 (Waters)

PEL LABORATORIES, INC.

Batch #4930

DATE: 9/16/02 (MJ)

Sample Number	R209079 -04									
Sample Date	9/11/02									
Description	ESM TMW-1									
Odor	None									
Color	Dark Brown									
Sed.	Slight									
Vol./ Wt.	1000									
pH	7.0									
Surrogate ID	SV6486 1mL@20µg/mL									
Spike ID	N/A									
ISTD	N/A									
Final Solvent	ACN									
Final Vol. (ml)	1.0mL									
Date Completed/By:	9/16/02 (MJ)									
Remarks	Super Large Emulsion. ~~Sample was extremely hard to work w/~~ (MJ) 9/16/02									
Stock Loc. Box/Row	R, 5	/	/	/	/	/	/	/	/	/
Spike Witness										

Base Lot # N/A
Acid Lot# N/A
Extraction Lot # DCM: OS665F B+J

Final Solvent Lot # ACN: OS544F B+J

T.V. 61071-241
Bath Temp 51°C

Organic Standards Log

OS #	Date prpd.	By	Description	Origin-Lot No. Manufacturer	Date stock rec'd Expiration Date	Diluent-Lot No.	Amount for Dil.	Final Vol.	Final Conc.	Discarded
SV6098	7/29/02	TS	8310 TOP STD INTERMEDIATE	Lot: ATS160 SV4835B MIX#5 SV4108C 1-M-NAP SV4717B 2-M-NAP SV4718B Man:	Rec'd: 2000ug/ML Exp:	ALN CF040. B+J	250ul EACH	5ML	100ug/ML	
SV6099			8310 CAL STD @ 30 PPB	Lot: SV6098 Man:	Rec'd: — Exp:		1.5ML		30ug/ML	
SV6100			8310 CAL STD @ 20PPB	Lot: Man:	Rec'd: — Exp:		1ML		20ug/ML	
SV6101			8310 CAL STD 15 PPB	Lot: Man.	Rec'd: — Exp:		750ul		15ug/ML	
SV6102			8310 CAL STD @ 10PPB	Lot: Man:	Rec'd: — Exp:		500ul		10ug/ML	
SV6103			8310 CAL STD @ 5 PPB	Lot: Man:	Rec'd: — Exp:		250ul		5ug/ML	
SV6104			8310 CAL STD @ 1 PPB	Lot: Man:	Rec'd: — Exp:		50ul		1ug/ML	
SV6105			8310 CAL STD @ 0.2PPB	Lot: Man:	Rec'd: — Exp:		10ul		0.2ug/ML	
SV6106			8310 SEL CCV	Lot: ATS-160 SV4835B 2000ug/ML AR-H4020 SV3385 1000ug/ML 1-M-NAP SV3760B 1000ug/ML Man:	Rec'd: Exp:		37.5ul 75ul 75ul		15ug/ML	TS 8/6/02

[redacted]

Organic Standards Log

SV #	Date prpd.	By	Description	Origin-Lot No. / Manufacturer	Date stock rec'd / Expiration Date	Diluent-Lot No.	Amount for Dil.	Final Vol.	Final Conc.	Discarded
SV4832			AccuStandard 125 Market St. New Haven, CT M-507C Lot: B1090226-1A Exp: Mar 29,2004 1.0 mg/mL in MtBE	Man:	Date opened: Exp:	STORAGE AMBIENT				
SV4833			AccuStandard 125 Market St. New Haven, CT M-507D Lot: B1090183-2B Exp: Mar 29,2004 1.0 mg/mL in MtBE	Man:	Date opened: Exp:	STORAGE AMBIENT				
SV4834			AccuStandard 125 Market St. New Haven, CT M-507E Lot: A9080196-3C Exp: Feb 14,2004 1.0 mg/mL in MtBE		Date opened:	STORAGE AMBIENT				
SV4835 A->H	4/17/02	AP	ULTRA SCIENTIFIC 250 Smith St., North Kingstown, RI 02852 401-294-9400 p-Terphenyl-d14 Solution 2000 ug/mL in Methylene Chloride ATS-160 1 mL Lot No. S-1237 Exp. Date 11/2005 LAB USE ONLY	Man:	Exp:					TS 8/6/02
-	—	-								
SV4836 A->L	4/17/02	AP	ULTRA SCIENTIFIC 250 Smith St., North Kingstown, RI 02852 401-294-9400 TRPH Surrogate Standard (FL) 2000 ug/mL in Carbon Disulfide IST-680 1 mL Lot No. T-0130 Exp. Date 02/2007 LAB USE ONLY	Man:	Exp:					
SV 4837 A-C	4/17/02	JW	8310 working surrogate	Lot: SV 4340 G Man:	Rec'd: Exp:	ACN CD840	1 mL	100 mL	20 ug/mL	TS 7/18/02
				Lot: Man:	Rec'd: Exp:					

Organic Standards Log

SV #	Date prpd.	By	Description	Origin-Lot No. / Manufacturer	Date stock rec'd / Expiration Date	Diluent-Lot No.	Amount for Dil.	Final Vol.	Final Conc.	Discarded
SV4107A	2/4/02	[illegible]	Cat.#31011 SV Calibration Mix #5 Lot# A020543 Expires:10/04 Storage:Refrigerate 2000 ug/ml each in methylene chloride FOR LABORATORY USE ONLY Restek Corporation • 110 Benner Circle • Bellefonte, PA 16823	Lot:	Rec'd:		---	1 ml	2000 ug/ml	
SV4107B	↓	↓		Man:	Exp:		—	↓	↓	
SV4108 A,B,C	2/4/02	JDD	Cat.#31011 SV Calibration Mix #5 Lot# A020543 Expires:10/04 Storage:Refrigerate 2000 ug/ml each in methylene chloride SV4108 A,B,C FOR LABORATORY USE ONLY Restek Corporation • 110 Benner Circle • Bellefonte, PA 16823				—	1 ml	2000ug/ml	TB 7/15/02
SV4109 ABCDEFGH			ULTRA SCIENTIFIC 250 Smith St., North Kingstown, RI 02852 401-294-9400 Aroclor 1016 Solution							[illegible]
SV4110 ABCDEFGH			ULTRA SCIENTIFIC 250 Smith St., North Kingstown, RI 02852 401-294-9400 Aroclor 1260 Solution 100 ug/mL in Hexane PP-361 1 mL LAB USE ONLY							↓
SV4111	2/5/02	SGA	FLPRO Cal7	Lot: SV3767D Man: SV3766A SV4083	Rec'd: — Exp:	DCM V424606	200ul 25ul 300ul	1ml	400ug/ml	
SV4112	2/5/02	SGA	FLPRO Cal6	Lot: Man:	Rec'd: — Exp:	↓	150ul 25ul 300ul	↓	300ug/ml	
SV4113	2/5/02	SGA	FLPRO Cal5	Lot: Man:	Rec'd: — Exp:	↓	75ul 25ul 300ul	↓	150ug/ml	
SV4114	2/5/02	SGA	FLPRO Cal4	Lot: Man:	Rec'd: — Exp:	↓	50ul 25ul 300ul	↓	100ug/ml	

Lot No. S-0793 Exp. Date 07/2005

Organic Standards Log

SV #	Date prpd.	By	Description	Origin-Lot No. Manufacturer	Date stock rec'd Expiration Date	Diluent-Lot No.	Amount for Dil.	Final Vol.	Final Conc.	Discarded
SV4713	3/22/02	LK	8082 Cal 1	Lot: Sr 3989 Man:	Rec'd: — Exp:	Btl Hex V33E49	5µL	1mL	0.05 µg/mL	
SV4714	↓	↓	8082 20	Lot: SV4075 Man:	Rec'd: — Exp:		1mL	1mL	1.0 µg/mL	
SV 4715 A,B,C	3/25/02	JJD	OTP - Working surr.	Lot: SV 3332D SV 4093L SV 3730A Man:	Rec'd: — Exp:	DCM X0E417	5mL	100 mL	100 µg/mL	
SV 4716 A,B	↓	↓	C-39 Working surr.	Lot: SV 4097 70-77 Man: 73-81	Rec'd: — Exp:	↓	15 mL	50 mL	600 µg/mL	
SV4717 A,B,C,D	3/25/02	JDD	1-M Naphth stk	Lot: B0090131-1A Man: AccuStd	Rec'd: 3/25/02 Exp: 11/1/02				2.0 mg/mL	SV4717ATS 8/16/02 SV4717B 9-17
SV4718 A,B,C,D	3/25/02	JDD	2-M Naph stk	Lot: B0040334 Man: Accustd	Rec'd: 3/25/02 Exp: 4/20/05				2.0 mg/mL	"B" TS 7-15-02 "D" TS 8-5-02
SV4719	3/25/02	LK	1221 intermediate	Lot: SV2845D Man:	Rec'd: 9/25/02 Exp:	BTJ Brand Hex V33E49	1mL	10mL	10 µg/mL	
SV4726	3/25/02	LK	1221/1254 Cal 6	Lot: SV4719 SV4726 Man:	Rec'd: Exp: 4/25/02	↓	250µL 250µL	1mL	2.5 µg/mL	
SV4721	↓	↓	1221/1254 Cal 5	Lot: SV4719 SV4726 Man:	Rec'd: — Exp: 4/25/02	↓	200µL 200µL	↓	2.0 µg/mL	

Organic Standards Log

OS #	Date prpd.	By	Description	Origin-Lot No. Manufacturer	Date stock rec'd Expiration Date	Diluent-Lot No.	Amount for Dil.	Final Vol.	Final Conc.	Discarded
SV6160	8/6/02	KB	HBB/PBB working spike	Lot: SV3830E SV5533E Man:	Rec'd: Exp:	Hexane B&J V44E02	500 ml 1429 ml	10 mL	10 µg/mL	
SV6161	8/6/02	TS	8310 WKG SURR.	Lot: SV4835M Man:	Rec'd: — Exp:	ACN CF346 B&J	1.0 mL	100 mL	20ug/ML	
SV6162	8/6/02	TS	8310 WKG SPK	Lot: SV5086 SV4717A SV5532A Man:	Rec'd: — Exp:	ACN CF346 B&J	1 ml EA	200 ml	10ug/ML	
SV6163	8/6/02	TS	8310 SEC CLV	Lot: SV4835B ~~SV4802~~ TS 8/6/02 SV3760B SV4052A Man:	Rec'd: — Exp:	ACN CF346 B&J	37.5 75ml 75ml	5 ML	15ug/ML	
SV6164A	8/7/02	KP	8270 SURROGATE	Lot: 103626 Man: EE	Rec'd: 8/7/02 Exp: 8/31/03	—	—	25 ml	BN: A 100:200 ug/ml.	08/08/02
SV6164B				Lot: Man:	Rec'd: Exp:	—	—			TS 8/8/02
8-14-02 SV6164C				Lot: Man:	Rec'd: Exp:	—	—			
8/14/02 SV6164D				Lot: Man:	Rec'd: Exp:	—	—			
8-13-02 SV6164E				Lot: Man:	Rec'd: Exp:	—	—			

Organic Standards Log

SV #	Date prpd.	By	Description	Origin-Lot No. Manufacturer	Date stock rec'd Expiration Date	Diluent-Lot No.	Amount for Dil.	Final Vol.	Final Conc.	Discarded
SV 4050	1/28/02	Rad	8310 1 std	Lot: 4044 Man:	Rec'd: Exp: 072802	ACN C0052	0.050	5.0	1 ug/mL	TB 7-8-02
4051			0.2 std	Lot: Man:	Rec'd: Exp:		0.010		0.2 ug/mL	
SV4051 A, B, C	Rec'd 1/29/02	JDD	SV Calibration mix #5 A020543 2000ug/mL	Lot: A020543 Man: 10/04	Rec'd: 1/29/02 Exp: 10/04					
SV4052 A, B	Rec'd 1/29/02	JDD	Aromatic Hydrocarbon Mix Stock 1000ug/mL	Lot: A020919 Man: 11/04	Rec'd: 1/29/02 Exp: 11/04					
SV 4053	1/29/02	JMD	FL PRO CAL 7	Lot: SV3891 I OTP SV3908C 1.39 SV 3621 Man:	Rec'd: — Exp:	DCM 9624-03	200 uL 25 uL 300 uL	1 mL	400 ug/mL	
SV 4054			FL PRO CAL 6	Lot: SV 3891 I SV 3908C Man: SV 3621	Rec'd: — Exp:		150 uL 25 uL 300 uL		300 ug/mL	
SV 4055			FL PRO CAL 5	Lot: SV 3891 I SV 3908C Man: SV 3621	Rec'd: — Exp:		75 uL 25 uL 300 uL		150 ug/mL	
SV 4056			FL PRO CAL 4	Lot: SV 3891 I SV 3908C Man: SV 3621	Rec'd: — Exp:		50 uL 25 uL 300 uL		100 ug/mL	
SV 4057			FL PRO CAL 3	Lot: SV 3891 I SV 3908C Man: SV 3621	Rec'd: — Exp:		25 uL 25 uL 300 uL		50 ug/mL	

Organic Standards Log

SV #	Date prpd.	By	Description	Origin-Lot No. Manufacturer	Expiration Date	Diluent-Lot No.	Amount for Dil.	Final Vol.	Final Conc.	[illegible]	[illegible]
SV3758B	1/3/02	[illegible]	CUSTOM AP9 1121X.	Lot: NSI Q-2572 Man:	Exp: 2/03	—	—	—	2000 ug/ml	—	
SV3758C				Lot: Man:	Exp:	—	—	—		—	
SV3758D				Lot: Man:	Exp:	—	—	—		—	
SV3758E	✓	✓	✓	Lot: ✓ Man:	Exp: ✓	—	✓	✓	—	—	
SV3759A	1/3/02	[illegible]				—		—	1000 ug/ml	—	
SV3759B				Man:		—		—		—	
SV3759C				Lot: Man:	Exp:	—	—	—		—	
SV3759D	✓	✓	✓	Lot: ✓ Man:	Exp: ✓	✓	✓	✓	✓	—	
SV3760 A & B	1/3/02	JMD	1-METHYLNAPHTH.	Lot: A020779 Man: Restek	Exp: 6/6				1000 ug/mL		

AccuStandard, Inc. 125 Market Street • New Haven, CT 06513 Phone 800-442-5290 • 203-786-5290

A-020S-5X 1 mL
3,4-Dichlorophenol
1.0 mg/mL in MeOH
Lot: B1060430
Exp. Dec 28,2004

FOR LABORATORY USE ONLY

STORAGE AMBIENT

POISON

Organic Standards Log

SV #	Date prpd.	By	Description	Origin-Lot No. Manufacturer	Date stock rec'd Expiration Date	Diluent-Lot No.	Amount for Dil.	Final Vol.	Final Conc.	Discarded
5531	7/11/02	LM	FLPRO TPH working spike	Lot: SV 5277BE Man:	Rec'd: Exp:	~~B&J~~ DCM UN1593	5.0mL	50mL	200ug/mL	
SV 5532 A-E	7/11/02	LM	2-methylnaphthalene	Lot: B0040334 Man: AccuSTD	Rec'd: 7/11/02 Exp: 7/10/05				2.0mg/mL	(A) B 8/6/02
SV5533 A-F	7/11/02	LM	Firemaster BP-6	Lot: B2030291 Man: AccuSTD	Rec'd: 7/11/02 Exp: 7/10/03				35µg/mL	
SV5534	7/11/02	LM	8141 A Calmix6	Lot: A SS IS Man:	Rec'd: Exp:	Hexane B&J V44E02	100 ul ~~80~~ 20 ul 20 ul	1mL	10µg/mL	
SV5535	7/11/02	LM	8141A calmix5	Lot: Man:	Rec'd: Exp:		80 ul 16 ul 20 ul	1mL	8 ~~10~~ ug/mL	
SV5536	7/11/02	LM	8141A calmix4	Lot: Man:	Rec'd: Exp:		50 ul 10 ul 20 ul	1mL	5 ~~10~~ µg/mL	
SV5537	7/11/02	LM	8141 A calmix3	Lot: Man:	Rec'd: Exp:		20 ul 4 ul 20 ul	1mL	2 µg/mL	
SV5538	7/11/02	LM	8141A calmix2	Lot: Man:	Rec'd: Exp:		10 ul 2 ul 20 ul	1mL	1 ug/mL	
SV5539	7/11/02	LM	8141 ~~B~~ A calmix1	Lot: Man:	Rec'd: Exp:		5 ul 1 ul 20 ul	1mL	0.5 µg/mL	

Organic Standards Log

SV #	Date prpd.	By	Description	Origin-Lot No. / Manufacturer	Date stock rec'd / Expiration Date	Diluent-Lot No.	Amount for Dil.	Final Vol.	Final Conc.	Discarded
SV 5085 A-E	5/16/02	JM	AccuStandard 125 Market St New Haven, CT S-9555A CUSTOM SV MIX Lot: B2050078 APQ Exp: Nov 3,2002 2000 µg/mL in Methylene		Date opened:	STORAGE FREEZE (<-10° C)				
SV 5086	5/17/02	JM	Cat.#31011 SV Calibration Mix #5 Lot# A022377 Expires:4/05 Storage:Refrigerate 2000 ug/ml each in methylene chloride FOR LABORATORY USE ONLY Restek Corporation • 110 Benner Circle • Bellefonte, PA 16823							TS 8/6/02
SV 5087 A-E	5/17/02	JM	Cat.#31451 8330 Calibration Mix #2 Lot# A022764 Expires:11/06 Storage:Refrigerate 1000 ug/ml each in acetonitrile FOR LABORATORY USE ONLY Restek Corporation • 110 Benner Circle • Bellefonte, PA 16823							
SV 5088 A-E	5/17/02	JM	Cat.#31450 8330 Calibration Mix #1 Lot# A020860 Expires:4/05 Storage:Refrigerate 1000 ug/ml each in acetonitrile FOR LABORATORY USE ONLY Restek Corporation • 110 Benner Circle • Bellefonte, PA 16823							
SV 5087	5/18/02	SGA	1254 Cal6	Lot: SV4726 Man:	Rec'd: Exp: 9/25/02	Hexane V44602	250ul	1ml	250ug/ml	
SV 5088	↓	↓	1254 Cal5	Lot: Man:	Rec'd: Exp:	↓	200ul	↓	200ug/ml	
SV 5089	↓	↓	1254 Cal4	Lot: Man:	Rec'd: Exp:	↓	100ul	↓	100ug/ml	
SV 5090	↓	↓	1254 Cal3	Lot: Man:	Rec'd: Exp:	↓	50ul	↓	50ug/ml	
SV 5091	↓	↓	1254 Cal2	Lot: Man:	Rec'd: Exp:	↓	10ul	↓	10ug/ml	

Organic Standards Log

ULTRA SCIENTIFIC 250 Smith St., North Kingstown, RI 02852 401-294-9400

Aroclor 1016 Solution

100 ug/mL in Isooctane

PP-282 1 mL

Lot No. S-0095 **Exp. Date** 02/2005

LAB USE ONLY

OS #	Date prpd.	By					Amount for Dil.	Final Vol.	Final Conc.	Discarded
9-12-02 DMC SV6478 A -> D	9/11/02	LP								
SV6479	9/13/02	LP	2 PPM APG MDL STUDY MIX	Lot: SV5083B SV5084B Man: Accustd.	Rec'd: 11/9/02 Exp: 11/10/02	DCM	10 ul of each	10 ml	2 ug/ml	
SV6480			5 PPM APG MDL STUDY MIX	Lot: Man:	Rec'd: Exp:		25 ul of each		5 ug/ml	
SV6481			10 PPM APG MDL STUDY MIX	Lot: Man:	Rec'd: Exp:		50 ul of each.		10 ug/ml.	
SV6482	9/13/02	LP	5% DMDCS in Toluene SYLON-CT	Lot: LB06711 Man: SUPELCO	Rec'd: 9/13/02 Exp: 9/12/03	—	—	—	For Silanizing liners only	
SV6483 9/14/02	9/14/02	LM	PEM	Lot: SV5457D Man:	Rec'd: Exp:	Hexane	50 uL	1 mL	Variable	
SV6484	9/16/02	LM	C-39 Working	Lot: SV6374A-D Man:	Rec'd: Exp:	DCM	5 mL	50 mL	600 ug/mL	
SV6485	9/16/02	TS	5L PRO CCV	Lot: SV6227A SV6052E SV5371F Man:	Rec'd: — Exp:	DCM	75 ul 50 ul 25 ul	1 ML ~~250 ML~~ TS 9/16/02	150 mg/L ~~1 mL~~ TS 9/16/02	
SV6486	9/16/02	AS	8310 working Surrogate	Lot: SV5587F Man:	Rec'd: 12/16/02 Exp:	ACN ~~OS544F~~ CF 346	1.0 ml	100 ml	20 ug/ml	

Organic Standards Log

SV #	Date prpd.	By	Description	Origin-Lot No. Manufacturer	Date stock rec'd Expiration Date	Diluent-Lot No.	Amount for Dil.	Final Vol.	Final Conc.	Discarded
SV5586	7/18/02	LM	8310 working Surr	Lot: SV4947H Man:	Rec'd: Exp:	ACN	1.0mL	100mL	20ug/mL	
SV5587A	7/18/02	TS	8310 STOCK SURROGATE ATS-160	Lot: S-1237 Man: ULTRA SCS	Rec'd: 7-17-02 Exp: 11/05	—	—	—	2000ug/mL	
SV5587B				Lot: Man:	Rec'd: Exp:					
SV5587C				Lot: Man:	Rec'd: Exp:					
SV5587D				Lot: Man:	Rec'd: Exp:					
SV5587E				Lot: Man:	Rec'd: Exp:					
SV5587F				Lot: Man:	Rec'd: Exp:					
SV5587G				Lot: Man:	Rec'd: Exp:					
SV5587H				Lot: Man:	Rec'd: Exp:					

9/5/02 TB

CAL 2 | CALIBRATION 8310 | 9/8/02 TB

1	SV6105	CAL 1
2	SV6104	CAL 2
3	SV6103	CAL 3
4	SV6102	CAL 4
5	SV6101	CAL 5
6	SV6100	CAL 6
7	SV6099	CAL 7
8	SV6163	SEL CLV
21	SHUT	

GWD

TB

9/9/02

Data File: \\SVHPLC\EE\chem\slc02.i\908CALaq.b\CAL1.D
Report Date: 26-Sep-2002 16:55

PEL Laboratories, Inc.

Data file : \\SVHPLC\EE\chem\slc02.i\908CALaq.b\CAL1.D
Lab Smp Id: SV6105 — Client Smp ID: CAL1
Inj Date : 08-SEP-2002 15:13
Operator : SCOTT — Inst ID: slc02.i
Smp Info : SV6105
Misc Info :
Comment :
Method : \\SVHPLC\ee\chem\slc02.i\908CALaq.b\8310AE.m
Meth Date : 26-Sep-2002 16:55 amarty — Quant Type: ESTD
Cal Date : 08-SEP-2002 15:13 — Cal File: CAL1.D
Als bottle: 1 — Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon — Compound Sublist: all.sub
Target Version: 4.04 — Sample Matrix: WATER
Processing Host: FORMS1

Concentration Formula: Amt * DF * 1/(Vo/1000)*Vt

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume Extracted
Vt	1.000	Final Volume

RT	EXP RT	DLT RT	SIGNAL	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	
2 Naphthalene						CAS #: 91-20-3			
11.866	11.816	(0.050)	VWD1A	1040	0.20000	0.19	80.00- 120.00	100.00(aM)	AG
11.968	11.816	(0.152)	ADC1A	4383			176.59- 264.89	421.44	
3 Acenaphthylene						CAS #: 208-96-8			
13.080	13.033	(0.047)	VWD1A	953	0.20000	0.24		(M)	AG
4 1-Methyl naphthalene						CAS #: 90-12-0			
13.703	13.663	(0.040)	VWD1A	826			80.00- 120.00	100.00(M)	AG
13.786	13.663	(0.123)	ADC1A	4279	0.20000	0.28	364.80- 547.20	518.04	
5 2-Methyl naphthalene						CAS #: 91-57-6			
14.033	13.996	(0.037)	VWD1A	1046	0.20000	0.23	80.00- 120.00	100.00(M)	AG
14.128	13.996	(0.132)	ADC1A	6702			369.87- 554.80	640.73	

Data File: \\SVHPLC\EE\chem\slc02.i\908CALaq.b\CAL1.D
Report Date: 26-Sep-2002 16:55

RT	EXP RT	DLT RT	SIGNAL	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	
6 Acenaphthene						CAS #: 83-32-9			
14.363	14.330	(0.033)	VWD1A	643			80.00- 120.00	100.00	(M)
14.460	14.330	(0.130)	ADC1A	5917	0.20000	0.28	817.25-1225.87	920.22	
7 Fluorene						CAS #: 86-73-7			
14.720	14.683	(0.037)	VWD1A	5462	0.20000	0.22			(M)
8 Phenanthrene						CAS #: 85-01-8			
15.520	15.490	(0.030)	VWD1A	15565			80.00- 120.00	100.00	(aM)
15.616	15.490	(0.126)	ADC1A	66814	0.20000	0.17	442.65- 663.98	429.26	
9 Anthracene						CAS #: 120-12-7			
16.243	16.213	(0.030)	VWD1A	37567	0.20000	0.25	80.00- 120.00	100.00	(M)
16.341	16.213	(0.128)	ADC1A	109993			299.84- 449.75	292.79	
10 Fluoranthene						CAS #: 206-44-0			
17.080	17.043	(0.037)	VWD1A	3360	0.20000	0.20			(M)
11 Pyrene						CAS #: 129-00-0			
17.620	17.583	(0.037)	VWD1A	2719	0.20000	0.19	80.00- 120.00	100.00	(aM)
17.708	17.583	(0.125)	ADC1A	107747			3574.73-5362.09	3962.74	
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0			
18.570	18.546	(0.024)	VWD1A	2861	0.20000	0.20	80.00- 120.00	100.00	(M)
18.653	18.546	(0.107)	ADC1A	128503			3472.33-5208.49	4491.54	
13 Benzo(a)Anthracene						CAS #: 56-55-3			
19.373	19.346	(0.027)	VWD1A	6620	0.20000	0.17	80.00- 120.00	100.00	(aM)
19.478	19.346	(0.132)	ADC1A	62795			1046.78-1570.17	948.56	
14 Chrysene						CAS #: 218-01-9			
19.763	19.736	(0.027)	VWD1A	10313	0.20000	0.20	80.00- 120.00	100.00	(M)
19.863	19.736	(0.127)	ADC1A	223077			1996.08-2994.11	2163.07	
15 Benzo(b)Fluoranthene						CAS #: 205-99-2			
21.163	21.130	(0.033)	VWD1A	6366	0.20000	0.15	80.00- 120.00	100.00	(aM)
21.256	21.130	(0.126)	ADC1A	2865			80.97- 121.46	45.00	
16 Benzo(k)Fluoranthene						CAS #: 207-08-9			
21.760	21.750	(0.010)	VWD1A	6869	0.20000	0.21	80.00- 120.00	100.00	
21.876	21.750	(0.126)	ADC1A	6173			130.27- 195.41	89.87	
17 Benzo(a)pyrene						CAS #: 50-32-8			
22.360	22.350	(0.010)	VWD1A	4192			80.00- 120.00	100.00	(aM)
22.500	22.350	(0.150)	ADC1A	20357	0.20000	0.12	356.94- 535.41	485.62	

Data File: \\SVHPLC\EE\chem\slc02.i\908CALaq.b\CAL1.D
Report Date: 26-Sep-2002 16:55

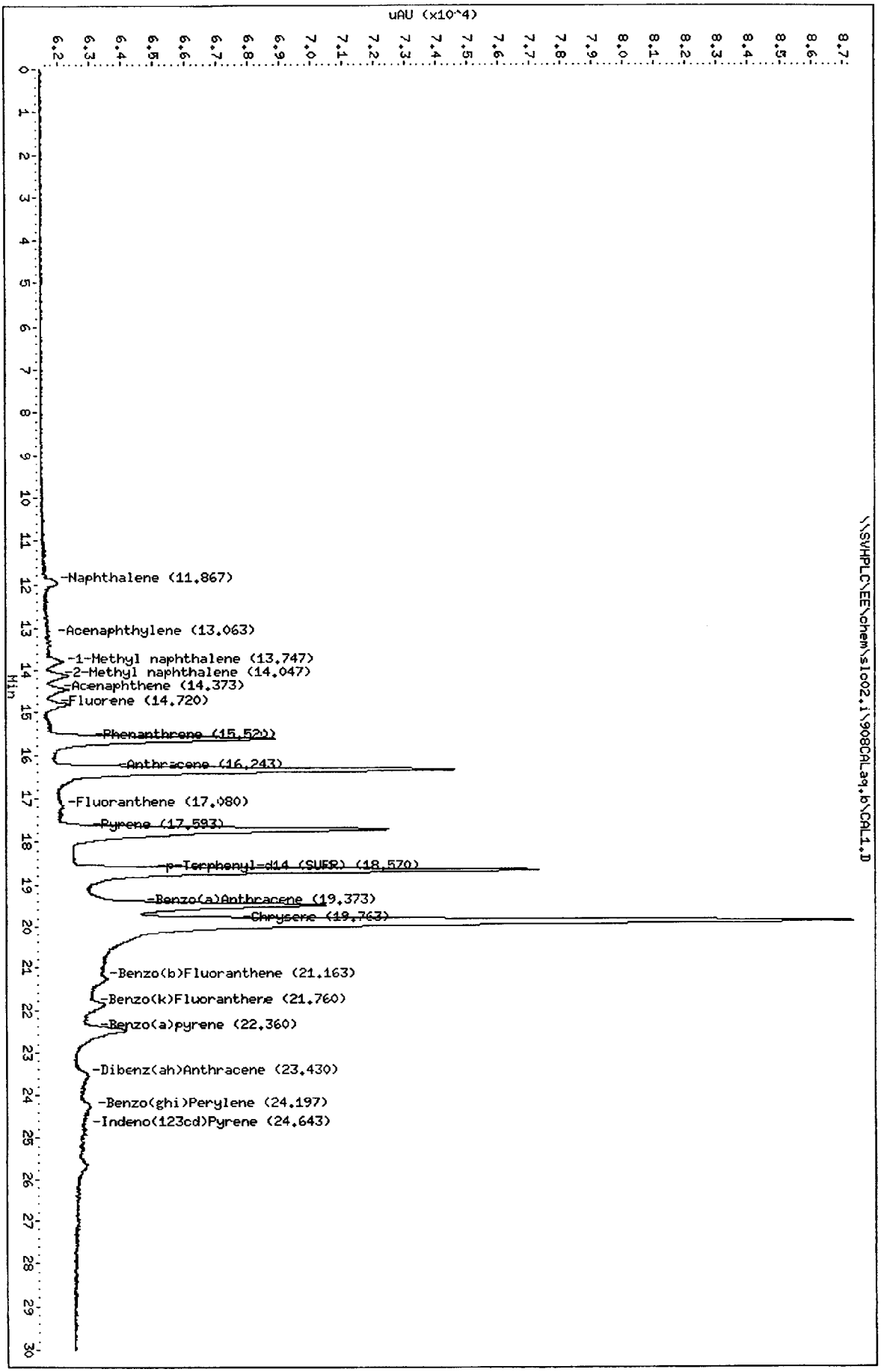
RT	EXP RT	DLT RT	SIGNAL	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	
18 Dibenz(ah)Anthracene						CAS #: 53-70-3			
23.426	23.376	(0.050)	VWD1A	2628	0.20000	0.31	80.00- 120.00	100.00	(M)
23.546	23.376	(0.170)	ADC1A	4350			487.10- 730.65	165.53	
19 Benzo(ghi)Perylene						CAS #: 191-24-2			
24.180	24.113	(0.067)	VWD1A	1877	0.20000	0.14	80.00- 120.00	100.00	(aM)
24.275	24.113	(0.162)	ADC1A	1838			222.20- 333.30	97.92	
20 Indeno(123cd)Pyrene						CAS #: 193-39-5			
24.643	24.566	(0.077)	VWD1A	2795	0.20000	0.078			(aM)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\SVHPLC\EE\chem\slc02.i\908CALaq.b\CAL1.D
Date : 08-SEP-2002 15:13
Client ID: CAL1
Sample Info: SV6105
Purge Volume: 1000.0
Column phase: Vydac 201TP54

Instrument: slc02.i
Operator: SCOTT
Column diameter: 4.60



Data File: \\SVHPLC\EE\chem\slc02.i\908CALaq.b\CAL2.D
Report Date: 26-Sep-2002 16:55

PEL Laboratories, Inc.

Data file : \\SVHPLC\EE\chem\slc02.i\908CALaq.b\CAL2.D
Lab Smp Id: SV6104 Client Smp ID: CAL2
Inj Date : 08-SEP-2002 15:47
Operator : SCOTT Inst ID: slc02.i
Smp Info : SV6104
Misc Info :
Comment :
Method : \\SVHPLC\ee\chem\slc02.i\908CALaq.b\8310AE.m
Meth Date : 26-Sep-2002 16:55 amarty Quant Type: ESTD
Cal Date : 08-SEP-2002 15:13 Cal File: CAL1.D
Als bottle: 2 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.04 Sample Matrix: WATER
Processing Host: FORMS1

Concentration Formula: Amt * DF * 1/(Vo/1000)*Vt

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume Extracted
Vt	1.000	Final Volume

AMOUNTS

RT	EXP RT	DLT RT	SIGNAL	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
2 Naphthalene							CAS #: 91-20-3	
11.763	11.816	(-0.053)	VWD1A	5704	1.00000	1.1	80.00- 120.00	100.00 (M)
11.856	11.816	(0.040)	ADC1A	15489			176.59- 264.89	271.55
3 Acenaphthylene							CAS #: 208-96-8	
13.003	13.033	(-0.030)	VWD1A	3816	1.00000	0.95		(M)
4 1-Methyl naphthalene							CAS #: 90-12-0	
13.646	13.663	(-0.017)	VWD1A	4155			80.00- 120.00	100.00
13.719	13.663	(0.056)	ADC1A	15599	1.00000	1.0	364.80- 547.20	375.43
5 2-Methyl naphthalene							CAS #: 91-57-6	
13.966	13.996	(-0.030)	VWD1A	5111	1.00000	1.1	80.00- 120.00	100.00
14.064	13.996	(0.068)	ADC1A	18470			369.87- 554.80	361.38

Data File: \\SVHPLC\EE\chem\slc02.i\908CALaq.b\CAL2.D
Report Date: 26-Sep-2002 16:55

RT	EXP RT	DLT RT	SIGNAL	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO
6 Acenaphthene						CAS #: 83-32-9		
14.306	14.330	(-0.024)	VWD1A	2660			80.00- 120.00	100.00
14.396	14.330	(0.066)	ADC1A	17004	1.00000	0.82	817.25-1225.87	639.25
7 Fluorene						CAS #: 86-73-7		
14.660	14.683	(-0.023)	VWD1A	25871	1.00000	1.0		
8 Phenanthrene						CAS #: 85-01-8		
15.470	15.490	(-0.020)	VWD1A	71941			80.00- 120.00	100.00
15.564	15.490	(0.074)	ADC1A	368171	1.00000	0.96	442.65- 663.98	511.77
9 Anthracene						CAS #: 120-12-7		
16.196	16.213	(-0.017)	VWD1A	173279	1.00000	1.1	80.00- 120.00	100.00(M)
16.291	16.213	(0.078)	ADC1A	618908			299.84- 449.75	357.17
10 Fluoranthene						CAS #: 206-44-0		
17.030	17.043	(-0.013)	VWD1A	18430	1.00000	1.1		
11 Pyrene						CAS #: 129-00-0		
17.573	17.583	(-0.010)	VWD1A	15865	1.00000	1.1	80.00- 120.00	100.00
17.668	17.583	(0.085)	ADC1A	637620			3574.73-5362.09	4019.04
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.533	18.546	(-0.013)	VWD1A	14881	1.00000	1.0	80.00- 120.00	100.00(M)
18.624	18.546	(0.078)	ADC1A	670875			3472.33-5208.49	4508.27
13 Benzo(a)Anthracene						CAS #: 56-55-3		
19.336	19.346	(-0.010)	VWD1A	34522	1.00000	0.90	80.00- 120.00	100.00(M)
19.434	19.346	(0.088)	ADC1A	445801			1046.78-1570.17	1291.35
14 Chrysene						CAS #: 218-01-9		
19.723	19.736	(-0.013)	VWD1A	50606	1.00000	0.97	80.00- 120.00	100.00
19.821	19.736	(0.085)	ADC1A	1365319			1996.08-2994.11	2697.94
15 Benzo(b)Fluoranthene						CAS #: 205-99-2		
21.120	21.130	(-0.010)	VWD1A	35966	1.00000	0.85	80.00- 120.00	100.00
21.218	21.130	(0.088)	ADC1A	23538			80.97- 121.46	65.45
16 Benzo(k)Fluoranthene						CAS #: 207-08-9		
21.736	21.750	(-0.014)	VWD1A	30406	1.00000	0.93	80.00- 120.00	100.00
21.843	21.750	(0.093)	ADC1A	29590			130.27- 195.41	97.32
17 Benzo(a)pyrene						CAS #: 50-32-8		
22.336	22.350	(-0.014)	VWD1A	35522			80.00- 120.00	100.00
22.444	22.350	(0.094)	ADC1A	116868	1.00000	0.70	356.94- 535.41	329.00

Data File: \\SVHPLC\EE\chem\slc02.i\908CALaq.b\CAL2.D
Report Date: 26-Sep-2002 16:55

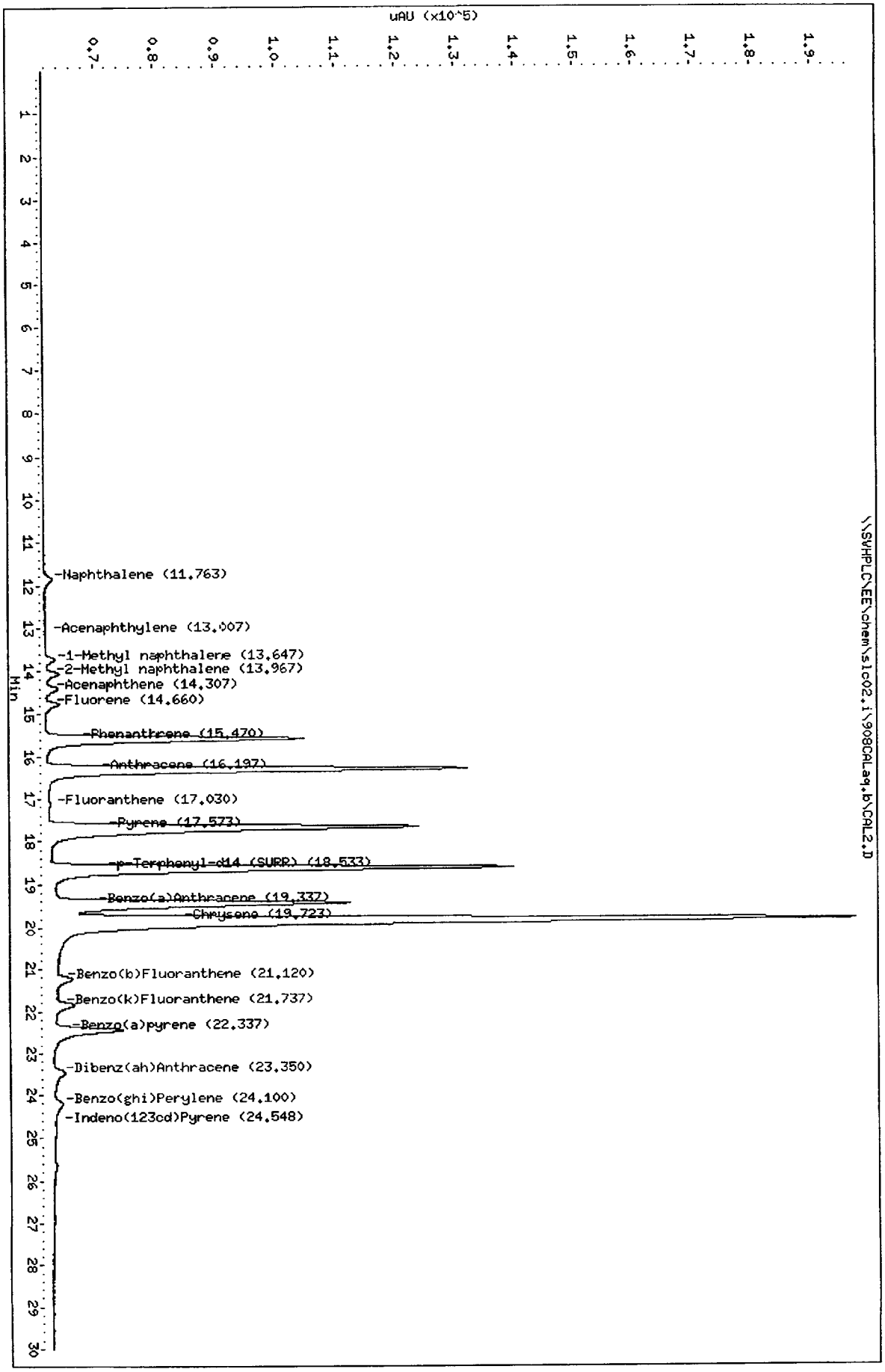
RT	EXP RT	DLT RT	SIGNAL	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO
18 Dibenz(ah)Anthracene						CAS #: 53-70-3		
23.350	23.376	(-0.026)	VWD1A	5311	1.00000	0.63	80.00- 120.00	100.00(M)
23.459	23.376	(0.083)	ADC1A	26404			487.10- 730.65	497.16
19 Benzo(ghi)Perylene						CAS #: 191-24-2		
24.100	24.113	(-0.013)	VWD1A	7463	1.00000	0.56	80.00- 120.00	100.00(M)
24.213	24.113	(0.100)	ADC1A	19956			222.20- 333.30	267.40
20 Indeno(123cd)Pyrene						CAS #: 193-39-5		
24.553	24.566	(-0.013)	VWD1A	24460	1.00000	0.68		

QC Flag Legend

M - Compound response manually integrated.

Data File: \\SVHPLC\EE\chem\slc02.i\908CALaq.b\CAL2.D
Date : 08-SEP-2002 15:47
Client ID: CAL2
Sample Info: SV6104
Purge Volume: 1000.0
Column phase: Vydac 201TP54

Instrument: slc02.i
Operator: SCOTT
Column diameter: 4.60



Data File: \\SVHPLC\EE\chem\slc02.i\908CALaq.b\CAL3.D
Report Date: 26-Sep-2002 16:55

PEL Laboratories, Inc.

Data file : \\SVHPLC\EE\chem\slc02.i\908CALaq.b\CAL3.D
Lab Smp Id: SV6103 Client Smp ID: CAL3
Inj Date : 08-SEP-2002 16:22
Operator : SCOTT Inst ID: slc02.i
Smp Info : SV6103
Misc Info :
Comment :
Method : \\SVHPLC\ee\chem\slc02.i\908CALaq.b\8310AE.m
Meth Date : 26-Sep-2002 16:55 amarty Quant Type: ESTD
Cal Date : 08-SEP-2002 15:13 Cal File: CAL1.D
Als bottle: 3 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.04 Sample Matrix: WATER
Processing Host: FORMS1

Concentration Formula: Amt * DF * 1/(Vo/1000)*Vt

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume Extracted
Vt	1.000	Final Volume

RT	EXP RT	DLT RT	SIGNAL	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO
2 Naphthalene							CAS #: 91-20-3	
11.763	11.816	(-0.053)	VWD1A	28615	5.00000	5.3	80.00- 120.00	100.00
11.853	11.816	(0.037)	ADC1A	59698			176.59- 264.89	208.62
3 Acenaphthylene							CAS #: 208-96-8	
12.993	13.033	(-0.040)	VWD1A	21342	5.00000	5.3		
4 1-Methyl naphthalene							CAS #: 90-12-0	
13.626	13.663	(-0.037)	VWD1A	17636			80.00- 120.00	100.00
13.722	13.663	(0.059)	ADC1A	67618	5.00000	4.4	364.80- 547.20	383.41
5 2-Methyl naphthalene							CAS #: 91-57-6	
13.966	13.996	(-0.030)	VWD1A	23946	5.00000	5.4	80.00- 120.00	100.00
14.058	13.996	(0.062)	ADC1A	96317			369.87- 554.80	402.23

Data File: \\SVHPLC\EE\chem\slc02.i\908CALaq.b\CAL3.D
Report Date: 26-Sep-2002 16:55

RT	EXP RT	DLT RT	SIGNAL	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO
6 Acenaphthene							CAS #: 83-32-9	
14.306	14.330	(-0.024)	VWD1A	10761			80.00- 120.00	100.00
14.392	14.330	(0.062)	ADC1A	88470	5.00000	4.3	817.25-1225.87	822.14
7 Fluorene							CAS #: 86-73-7	
14.660	14.683	(-0.023)	VWD1A	131551	5.00000	5.4		
8 Phenanthrene							CAS #: 85-01-8	
15.466	15.490	(-0.024)	VWD1A	366096			80.00- 120.00	100.00
15.558	15.490	(0.068)	ADC1A	2036108	5.00000	5.3	442.65- 663.98	556.17
9 Anthracene							CAS #: 120-12-7	
16.190	16.213	(-0.023)	VWD1A	842143	5.00000	5.6	80.00- 120.00	100.00(M)
16.288	16.213	(0.075)	ADC1A	3246758			299.84- 449.75	385.54
10 Fluoranthene							CAS #: 206-44-0	
17.023	17.043	(-0.020)	VWD1A	88407	5.00000	5.4		
11 Pyrene							CAS #: 129-00-0	
17.563	17.583	(-0.020)	VWD1A	76978	5.00000	5.3	80.00- 120.00	100.00
17.657	17.583	(0.074)	ADC1A	3438964			3574.73-5362.09	4467.46
$ 12 p-Terphenyl-d14 (SURR)							CAS #: 1718-51-0	
18.526	18.546	(-0.020)	VWD1A	66991	5.00000	4.6	80.00- 120.00	100.00(M)
18.620	18.546	(0.074)	ADC1A	3515028			3472.33-5208.49	5247.02
13 Benzo(a)Anthracene							CAS #: 56-55-3	
19.326	19.346	(-0.020)	VWD1A	203051	5.00000	5.3	80.00- 120.00	100.00
19.423	19.346	(0.077)	ADC1A	2615557			1046.78-1570.17	1288.13
14 Chrysene							CAS #: 218-01-9	
19.713	19.736	(-0.023)	VWD1A	276743	5.00000	5.3	80.00- 120.00	100.00
19.810	19.736	(0.074)	ADC1A	7103633			1996.08-2994.11	2566.87
15 Benzo(b)Fluoranthene							CAS #: 205-99-2	
21.110	21.130	(-0.020)	VWD1A	216036	5.00000	5.1	80.00- 120.00	100.00
21.208	21.130	(0.078)	ADC1A	198677			80.97- 121.46	91.96
16 Benzo(k)Fluoranthene							CAS #: 207-08-9	
21.726	21.750	(-0.024)	VWD1A	167940	5.00000	5.2	80.00- 120.00	100.00
21.828	21.750	(0.078)	ADC1A	246897			130.27- 195.41	147.02
17 Benzo(a)pyrene							CAS #: 50-32-8	
22.326	22.350	(-0.024)	VWD1A	174100			80.00- 120.00	100.00
22.430	22.350	(0.080)	ADC1A	845451	5.00000	5.0	356.94- 535.41	485.61

Data File: \\SVHPLC\EE\chem\slc02.i\908CALaq.b\CAL3.D
Report Date: 26-Sep-2002 16:55

RT	EXP RT	DLT RT	SIGNAL	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	
18 Dibenz(ah)Anthracene						CAS #: 53-70-3			
23.326	23.376	(-0.050)	VWD1A	42471	5.00000	5.0	80.00- 120.00	100.00	(M)
23.227	23.376	(-0.149)	ADC1A	313			487.10- 730.65	0.74	
19 Benzo(ghi)Perylene						CAS #: 191-24-2			
24.073	24.113	(-0.040)	VWD1A	61355	5.00000	4.6	80.00- 120.00	100.00	
24.177	24.113	(0.064)	ADC1A	151108			222.20- 333.30	246.28	
20 Indeno(123cd)Pyrene						CAS #: 193-39-5			
24.523	24.566	(-0.043)	VWD1A	165127	5.00000	4.6			(M)

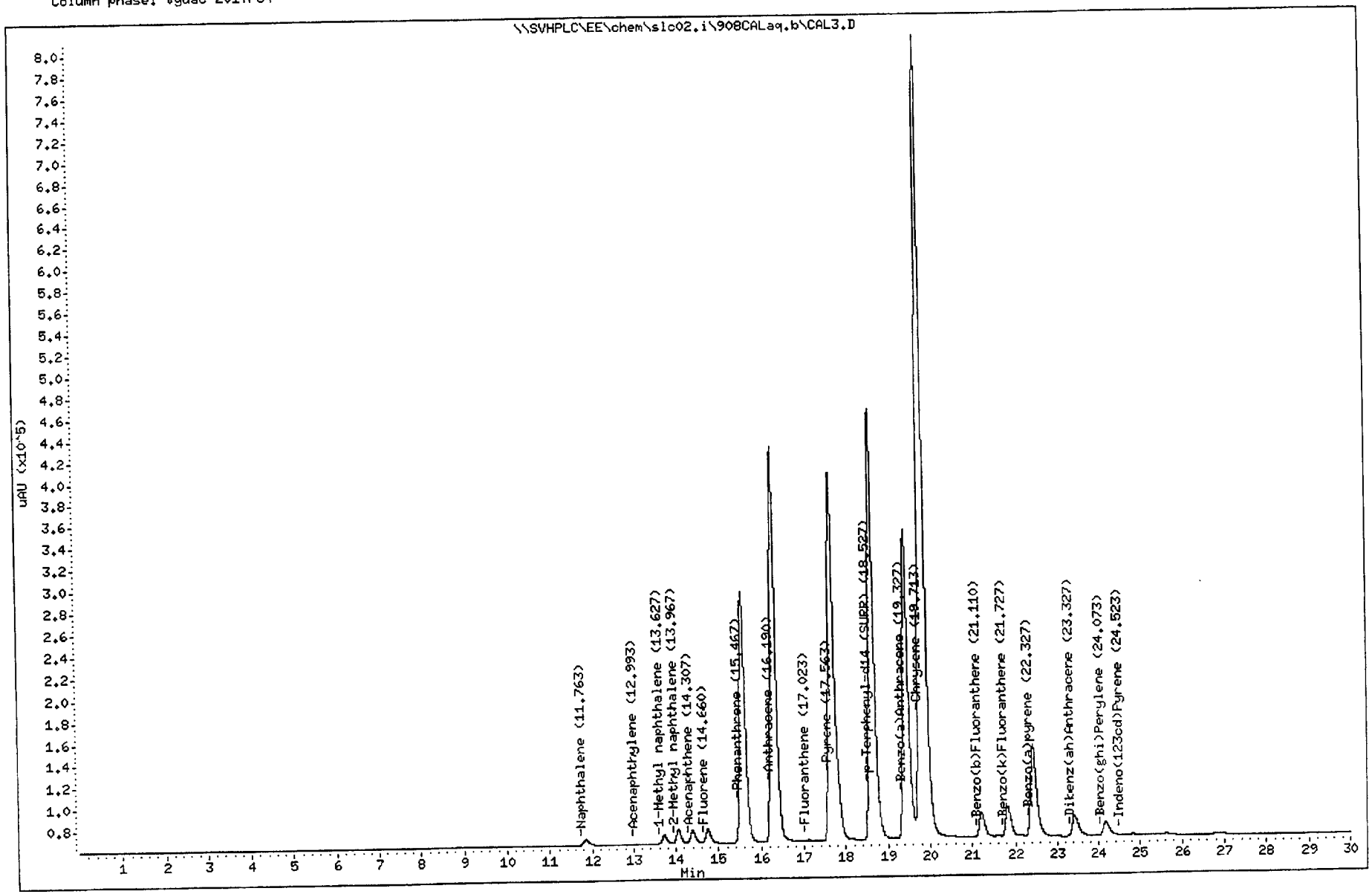
QC Flag Legend

M - Compound response manually integrated.

Data File: \\SVHPLC\EE\chem\slc02.i\908CALaq.b\CAL3.D
Date : 08-SEP-2002 16:22
Client ID: CAL3
Sample Info: SV6103
Purge Volume: 1000.0
Column phase: Vydac 201TP54

Instrument: slc02.i

Operator: SCOTT
Column diameter: 4.60



Data File: \\SVHPLC\EE\chem\slc02.i\908CALaq.b\CAL4.D
Report Date: 26-Sep-2002 16:55

PEL Laboratories, Inc.

Data file : \\SVHPLC\EE\chem\slc02.i\908CALaq.b\CAL4.D
Lab Smp Id: SV6102 Client Smp ID: CAL4
Inj Date : 08-SEP-2002 16:56
Operator : SCOTT Inst ID: slc02.i
Smp Info : SV6102
Misc Info :
Comment :
Method : \\SVHPLC\ee\chem\slc02.i\908CALaq.b\8310AE.m
Meth Date : 26-Sep-2002 16:55 amarty Quant Type: ESTD
Cal Date : 08-SEP-2002 15:13 Cal File: CAL1.D
Als bottle: 4 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.04 Sample Matrix: WATER
Processing Host: FORMS1

Concentration Formula: Amt * DF * 1/(Vo/1000)*Vt

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume Extracted
Vt	1.000	Final Volume

RT	EXP RT	DLT RT	SIGNAL	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO
2 Naphthalene							CAS #: 91-20-3	
11.800	11.816	(-0.016)	VWD1A	54667	10.0000	10.2	80.00- 120.00	100.00
11.891	11.816	(0.075)	ADC1A	118181			176.59- 264.89	216.18
3 Acenaphthylene							CAS #: 208-96-8	
13.023	13.033	(-0.010)	VWD1A	41497	10.0000	10.3		
4 1-Methyl naphthalene							CAS #: 90-12-0	
13.653	13.663	(-0.010)	VWD1A	32277			80.00- 120.00	100.00
13.739	13.663	(0.076)	ADC1A	139798	10.0000	9.2	364.80- 547.20	433.12
5 2-Methyl naphthalene							CAS #: 91-57-6	
13.986	13.996	(-0.010)	VWD1A	45949	10.0000	10.3	80.00- 120.00	100.00
14.078	13.996	(0.082)	ADC1A	203037			369.87- 554.80	441.87

Data File: \\SVHPLC\EE\chem\slc02.i\908CALaq.b\CAL4.D
Report Date: 26-Sep-2002 16:55

RT	EXP RT	DLT RT	SIGNAL	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO
6 Acenaphthene							CAS #: 83-32-9	
14.323	14.330	(-0.007)	VWD1A	19780			80.00- 120.00	100.00
14.413	14.330	(0.083)	ADC1A	191705	10.0000	9.2	817.25-1225.87	969.19
7 Fluorene							CAS #: 86-73-7	
14.676	14.683	(-0.007)	VWD1A	248270	10.0000	10.1		
8 Phenanthrene							CAS #: 85-01-8	
15.480	15.490	(-0.010)	VWD1A	693888			80.00- 120.00	100.00
15.571	15.490	(0.081)	ADC1A	3889686	10.0000	10.1	442.65- 663.98	560.56
9 Anthracene							CAS #: 120-12-7	
16.200	16.213	(-0.013)	VWD1A	1627029	10.0000	10.8	80.00- 120.00	100.00
16.294	16.213	(0.081)	ADC1A	6046220			299.84- 449.75	371.61
10 Fluoranthene							CAS #: 206-44-0	
17.026	17.043	(-0.017)	VWD1A	165024	10.0000	10.1		
11 Pyrene							CAS #: 129-00-0	
17.570	17.583	(-0.013)	VWD1A	145051	10.0000	10.0	80.00- 120.00	100.00(M)
17.663	17.583	(0.080)	ADC1A	6569684			3574.73-5362.09	4529.22
$ 12 p-Terphenyl-d14 (SURR)							CAS #: 1718-51-0	
18.530	18.546	(-0.016)	VWD1A	133968	10.0000	9.3	80.00- 120.00	100.00(M)
18.624	18.546	(0.078)	ADC1A	6684649			3472.33-5208.49	4989.74
13 Benzo(a)Anthracene							CAS #: 56-55-3	
19.333	19.346	(-0.013)	VWD1A	384369	10.0000	10.1	80.00- 120.00	100.00
19.428	19.346	(0.082)	ADC1A	5003471			1046.78-1570.17	1301.74
14 Chrysene							CAS #: 218-01-9	
19.720	19.736	(-0.016)	VWD1A	530474	10.0000	10.2	80.00- 120.00	100.00
19.814	19.736	(0.078)	ADC1A	13464628			1996.08-2994.11	2538.23
15 Benzo(b)Fluoranthene							CAS #: 205-99-2	
21.113	21.130	(-0.017)	VWD1A	421380	10.0000	9.9	80.00- 120.00	100.00
21.211	21.130	(0.081)	ADC1A	417214			80.97- 121.46	99.01
16 Benzo(k)Fluoranthene							CAS #: 207-08-9	
21.723	21.750	(-0.027)	VWD1A	323213	10.0000	9.9	80.00- 120.00	100.00
21.824	21.750	(0.074)	ADC1A	514401			130.27- 195.41	159.15
17 Benzo(a)pyrene							CAS #: 50-32-8	
22.316	22.350	(-0.034)	VWD1A	364219			80.00- 120.00	100.00
22.419	22.350	(0.069)	ADC1A	1653743	10.0000	9.8	356.94- 535.41	454.05

Data File: \\SVHPLC\EE\chem\slc02.i\908CALaq.b\CAL4.D
Report Date: 26-Sep-2002 16:55

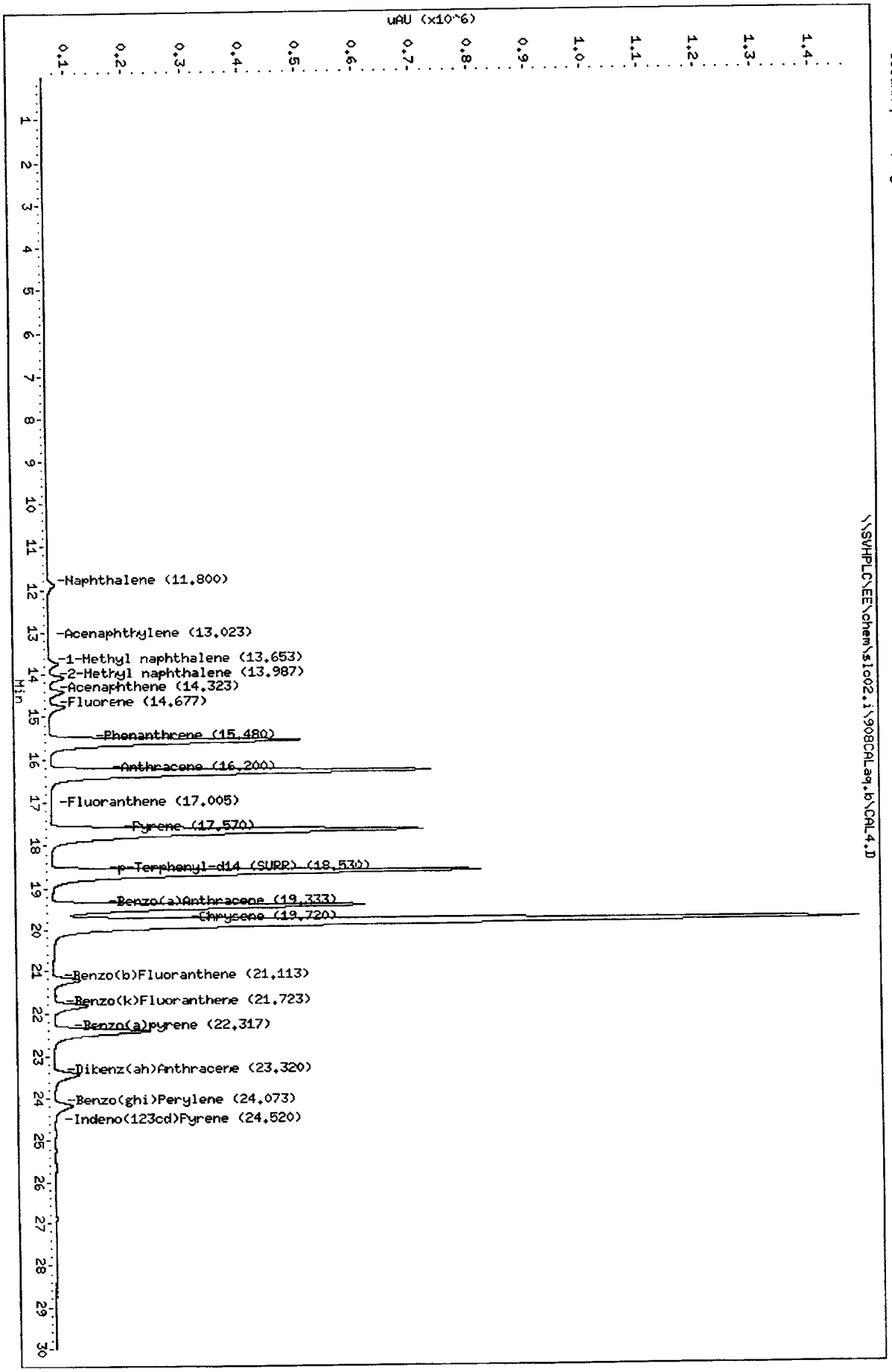
RT	EXP RT	DLT RT	SIGNAL	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO
18 Dibenz(ah)Anthracene							CAS #: 53-70-3	
23.320	23.376	(-0.056)	VWD1A	84998	10.0000	10.0	80.00- 120.00	100.00
23.423	23.376	(0.047)	ADC1A	488549			487.10- 730.65	574.78
19 Benzo(ghi)Perylene							CAS #: 191-24-2	
24.073	24.113	(-0.040)	VWD1A	125684	10.0000	9.4	80.00- 120.00	100.00
24.178	24.113	(0.065)	ADC1A	344378			222.20- 333.30	274.00
20 Indeno(123cd)Pyrene							CAS #: 193-39-5	
24.520	24.566	(-0.046)	VWD1A	333344	10.0000	9.2		

QC Flag Legend

M - Compound response manually integrated.

Data File: \\SVHPLC\EE\chem\slc02.i\908CALaq.b\CAL4.D
Date : 08-SEP-2002 16:56
Client ID: CAL4
Sample Info: SV6102
Purge Volume: 1000.0
Column phase: Vydac 201TP54

Instrument: slc02.i
Operator: SCOTT
Column diameter: 4.60



Data File: \\SVHPLC\EE\chem\slc02.i\908CALaq.b\CAL5.D
Report Date: 26-Sep-2002 16:55

PEL Laboratories, Inc.

Data file : \\SVHPLC\EE\chem\slc02.i\908CALaq.b\CAL5.D
Lab Smp Id: SV6101 Client Smp ID: CAL5
Inj Date : 08-SEP-2002 17:31
Operator : SCOTT Inst ID: slc02.i
Smp Info : SV6101
Misc Info :
Comment :
Method : \\SVHPLC\ee\chem\slc02.i\908CALaq.b\8310AE.m
Meth Date : 26-Sep-2002 16:55 amarty Quant Type: ESTD
Cal Date : 08-SEP-2002 15:13 Cal File: CAL1.D
Als bottle: 5 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.04 Sample Matrix: WATER
Processing Host: FORMS1

Concentration Formula: Amt * DF * 1/(Vo/1000)*Vt

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume Extracted
Vt	1.000	Final Volume

RT	EXP RT	DLT RT	SIGNAL	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
2 Naphthalene						CAS #: 91-20-3		
11.793	11.816	(-0.023)	VWD1A	80477	15.0000	15.0	80.00- 120.00	100.00
11.883	11.816	(0.067)	ADC1A	181009			176.59- 264.89	224.92
3 Acenaphthylene						CAS #: 208-96-8		
13.013	13.033	(-0.020)	VWD1A	59868	15.0000	14.9		
4 1-Methyl naphthalene						CAS #: 90-12-0		
13.643	13.663	(-0.020)	VWD1A	47351			80.00- 120.00	100.00
13.732	13.663	(0.069)	ADC1A	216394	15.0000	14.2	364.80- 547.20	457.00
5 2-Methyl naphthalene						CAS #: 91-57-6		
13.976	13.996	(-0.020)	VWD1A	67199	15.0000	15.0	80.00- 120.00	100.00
14.067	13.996	(0.071)	ADC1A	312729			369.87- 554.80	465.38

Data File: \\SVHPLC\EE\chem\slc02.i\908CALaq.b\CAL5.D
Report Date: 26-Sep-2002 16:55

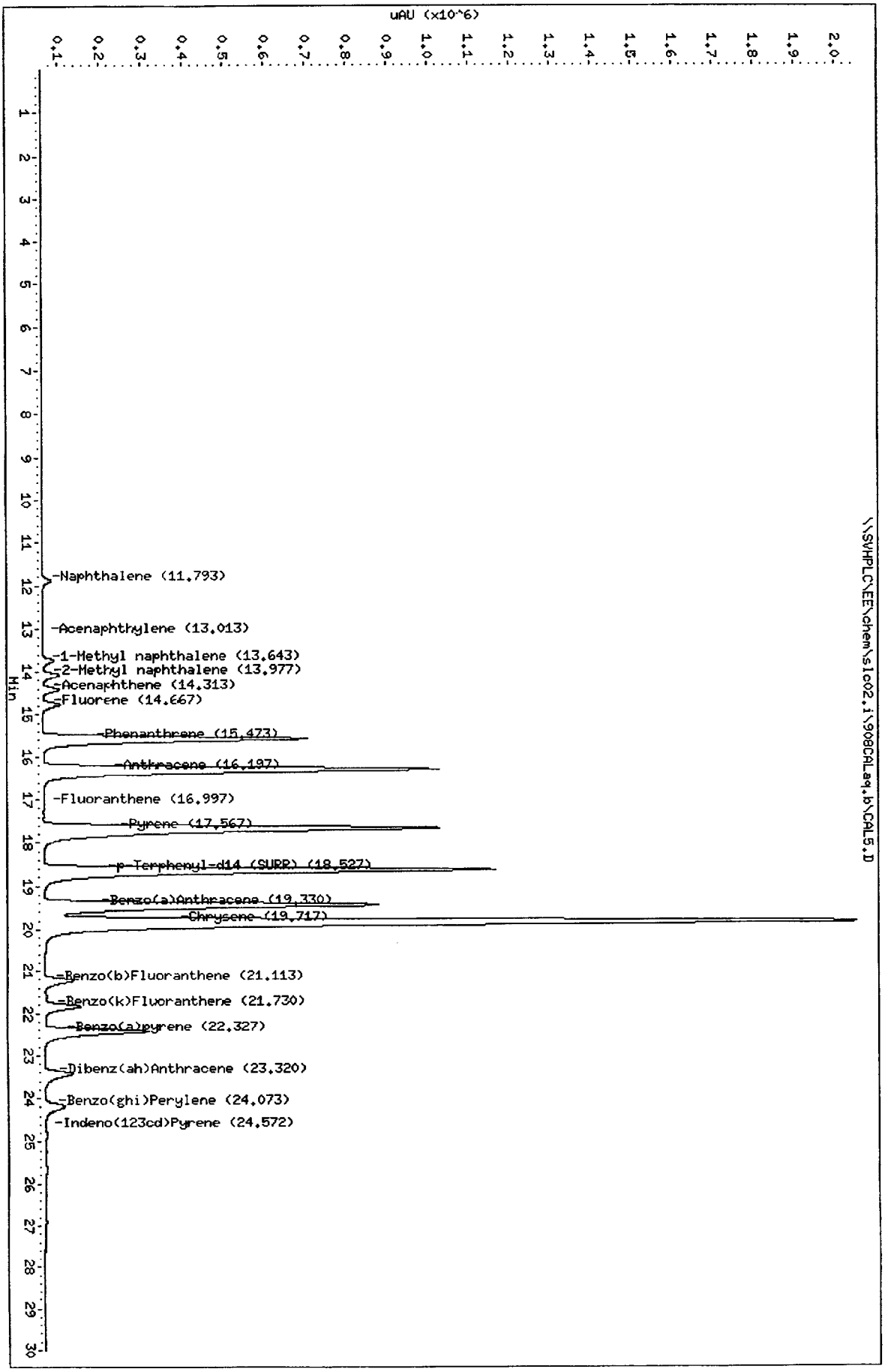
RT	EXP RT	DLT RT	SIGNAL	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO
6 Acenaphthene							CAS #: 83-32-9	
14.313	14.330	(-0.017)	VWD1A	29196			80.00- 120.00	100.00
14.403	14.330	(0.073)	ADC1A	295642	15.0000	14.3	817.25-1225.87	1012.61
7 Fluorene							CAS #: 86-73-7	
14.666	14.683	(-0.017)	VWD1A	366610	15.0000	14.9		
8 Phenanthrene							CAS #: 85-01-8	
15.473	15.490	(-0.017)	VWD1A	1039282			80.00- 120.00	100.00
15.563	15.490	(0.073)	ADC1A	5757696	15.0000	14.9	442.65- 663.98	554.01
9 Anthracene							CAS #: 120-12-7	
16.196	16.213	(-0.017)	VWD1A	2349857	15.0000	15.5	80.00- 120.00	100.00
16.290	16.213	(0.077)	ADC1A	8825569			299.84- 449.75	375.58
10 Fluoranthene							CAS #: 206-44-0	
17.023	17.043	(-0.020)	VWD1A	243096	15.0000	14.8		
11 Pyrene							CAS #: 129-00-0	
17.566	17.583	(-0.017)	VWD1A	214352	15.0000	14.8	80.00- 120.00	100.00
17.658	17.583	(0.075)	ADC1A	9734431			3574.73-5362.09	4541.33
$ 12 p-Terphenyl-d14 (SURR)							CAS #: 1718-51-0	
18.526	18.546	(-0.020)	VWD1A	221608	15.0000	15.4	80.00- 120.00	100.00
18.620	18.546	(0.074)	ADC1A	9900275			3472.33-5208.49	4467.47
13 Benzo(a)Anthracene							CAS #: 56-55-3	
19.330	19.346	(-0.016)	VWD1A	567550	15.0000	14.9	80.00- 120.00	100.00
19.425	19.346	(0.079)	ADC1A	7443059			1046.78-1570.17	1311.44
14 Chrysene							CAS #: 218-01-9	
19.716	19.736	(-0.020)	VWD1A	793151	15.0000	15.2	80.00- 120.00	100.00
19.820	19.736	(0.084)	ADC1A	19657112			1996.08-2994.11	2478.36
15 Benzo(b)Fluoranthene							CAS #: 205-99-2	
21.113	21.130	(-0.017)	VWD1A	628165	15.0000	14.8	80.00- 120.00	100.00
21.217	21.130	(0.087)	ADC1A	642081			80.97- 121.46	102.22
16 Benzo(k)Fluoranthene							CAS #: 207-08-9	
21.730	21.750	(-0.020)	VWD1A	483238	15.0000	14.8	80.00- 120.00	100.00
21.828	21.750	(0.078)	ADC1A	792212			130.27- 195.41	163.94
17 Benzo(a)pyrene							CAS #: 50-32-8	
22.326	22.350	(-0.024)	VWD1A	543153			80.00- 120.00	100.00
22.430	22.350	(0.080)	ADC1A	2486433	15.0000	14.8	356.94- 535.41	457.78

Data File: \\SVHPLC\EE\chem\slc02.i\908CALaq.b\CAL5.D
Report Date: 26-Sep-2002 16:55

RT	EXP RT	DLT RT	SIGNAL	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO
18 Dibenz(ah)Anthracene						CAS #: 53-70-3		
23.320	23.376	(-0.056)	VWD1A	126086	15.0000	14.9	80.00- 120.00	100.00
23.422	23.376	(0.046)	ADC1A	767772			487.10- 730.65	608.93
19 Benzo(ghi)Perylene						CAS #: 191-24-2		
24.073	24.113	(-0.040)	VWD1A	192900	15.0000	14.4	80.00- 120.00	100.00
24.175	24.113	(0.062)	ADC1A	553150			222.20- 333.30	286.75
20 Indeno(123cd)Pyrene						CAS #: 193-39-5		
24.523	24.566	(-0.043)	VWD1A	516501	15.0000	14.3		

Data File: \\SVHPLC\EE\chem\slc02.i\908CALaq.b\CAL5.D
Date : 08-SEP-2002 17:31
Client ID: CAL5
Sample Info: SV6101
Purge Volume: 1000.0
Column phase: Vydac 201TP54

Instrument: slc02.i
Operator: SCOTT
Column diameter: 4.60



Data File: \\SVHPLC\EE\chem\slc02.i\908CALaq.b\CAL6.D
Report Date: 26-Sep-2002 16:55

PEL Laboratories, Inc.

Data file : \\SVHPLC\EE\chem\slc02.i\908CALaq.b\CAL6.D
Lab Smp Id: SV6100 Client Smp ID: CAL6
Inj Date : 08-SEP-2002 18:06
Operator : SCOTT Inst ID: slc02.i
Smp Info : SV6100
Misc Info :
Comment :
Method : \\SVHPLC\ee\chem\slc02.i\908CALaq.b\8310AE.m
Meth Date : 26-Sep-2002 16:55 amarty Quant Type: ESTD
Cal Date : 08-SEP-2002 15:13 Cal File: CAL1.D
Als bottle: 6 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.04 Sample Matrix: WATER
Processing Host: FORMS1

Concentration Formula: Amt * DF * 1/(Vo/1000)*Vt

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume Extracted
Vt	1.000	Final Volume

RT	EXP RT	DLT RT	SIGNAL	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO
2 Naphthalene							CAS #: 91-20-3	
11.740	11.816	(-0.076)	VWD1A	109972	20.0000	20.5	80.00- 120.00	100.00
11.825	11.816	(0.009)	ADC1A	260686			176.59- 264.89	237.05
3 Acenaphthylene							CAS #: 208-96-8	
12.976	13.033	(-0.057)	VWD1A	81441	20.0000	20.3		
4 1-Methyl naphthalene							CAS #: 90-12-0	
13.613	13.663	(-0.050)	VWD1A	65374			80.00- 120.00	100.00
13.702	13.663	(0.039)	ADC1A	309208	20.0000	20.4	364.80- 547.20	472.98
5 2-Methyl naphthalene							CAS #: 91-57-6	
13.953	13.996	(-0.043)	VWD1A	89210	20.0000	20.0	80.00- 120.00	100.00
14.042	13.996	(0.046)	ADC1A	444415			369.87- 554.80	498.17

Data File: \\SVHPLC\EE\chem\slc02.i\908CALaq.b\CAL6.D
Report Date: 26-Sep-2002 16:55

AMOUNTS

RT	EXP RT	DLT RT	SIGNAL	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
6 Acenaphthene							CAS #: 83-32-9	
14.286	14.330	(-0.044)	VWD1A	39167			80.00- 120.00	100.00
14.379	14.330	(0.049)	ADC1A	423911	20.0000	20.5	817.25-1225.87	1082.32
7 Fluorene							CAS #: 86-73-7	
14.646	14.683	(-0.037)	VWD1A	504940	20.0000	20.5		
8 Phenanthrene							CAS #: 85-01-8	
15.456	15.490	(-0.034)	VWD1A	1429178			80.00- 120.00	100.00
15.549	15.490	(0.059)	ADC1A	7916118	20.0000	20.5	442.65- 663.98	553.89
9 Anthracene							CAS #: 120-12-7	
16.186	16.213	(-0.027)	VWD1A	3145087	20.0000	20.8	80.00- 120.00	100.00
16.280	16.213	(0.067)	ADC1A	11902056			299.84- 449.75	378.43
10 Fluoranthene							CAS #: 206-44-0	
17.016	17.043	(-0.027)	VWD1A	335242	20.0000	20.5		
11 Pyrene							CAS #: 129-00-0	
17.560	17.583	(-0.023)	VWD1A	299986	20.0000	20.7	80.00- 120.00	100.00(M)
17.654	17.583	(0.071)	ADC1A	13369986			3574.73-5362.09	4456.87
$ 12 p-Terphenyl-d14 (SURR)							CAS #: 1718-51-0	
18.530	18.546	(-0.016)	VWD1A	280037	20.0000	19.4	80.00- 120.00	100.00(M)
18.622	18.546	(0.076)	ADC1A	13642513			3472.33-5208.49	4871.68
13 Benzo(a)Anthracene							CAS #: 56-55-3	
19.333	19.346	(-0.013)	VWD1A	780314	20.0000	20.4	80.00- 120.00	100.00
19.429	19.346	(0.083)	ADC1A	10222952			1046.78-1570.17	1310.11
14 Chrysene							CAS #: 218-01-9	
19.720	19.736	(-0.016)	VWD1A	1028121	20.0000	19.8	80.00- 120.00	100.00(M)
19.857	19.736	(0.121)	ADC1A	22387620			1996.08-2994.11	2177.53
15 Benzo(b)Fluoranthene							CAS #: 205-99-2	
21.116	21.130	(-0.014)	VWD1A	867166	20.0000	20.5	80.00- 120.00	100.00
21.217	21.130	(0.087)	ADC1A	898837			80.97- 121.46	103.65
16 Benzo(k)Fluoranthene							CAS #: 207-08-9	
21.736	21.750	(-0.014)	VWD1A	668969	20.0000	20.5	80.00- 120.00	100.00
21.837	21.750	(0.087)	ADC1A	1102937			130.27- 195.41	164.87
17 Benzo(a)pyrene							CAS #: 50-32-8	
22.336	22.350	(-0.014)	VWD1A	751774			80.00- 120.00	100.00
22.440	22.350	(0.090)	ADC1A	3436332	20.0000	20.5	356.94- 535.41	457.10

Data File: \\SVHPLC\EE\chem\slc02.i\908CALaq.b\CAL6.D
Report Date: 26-Sep-2002 16:55

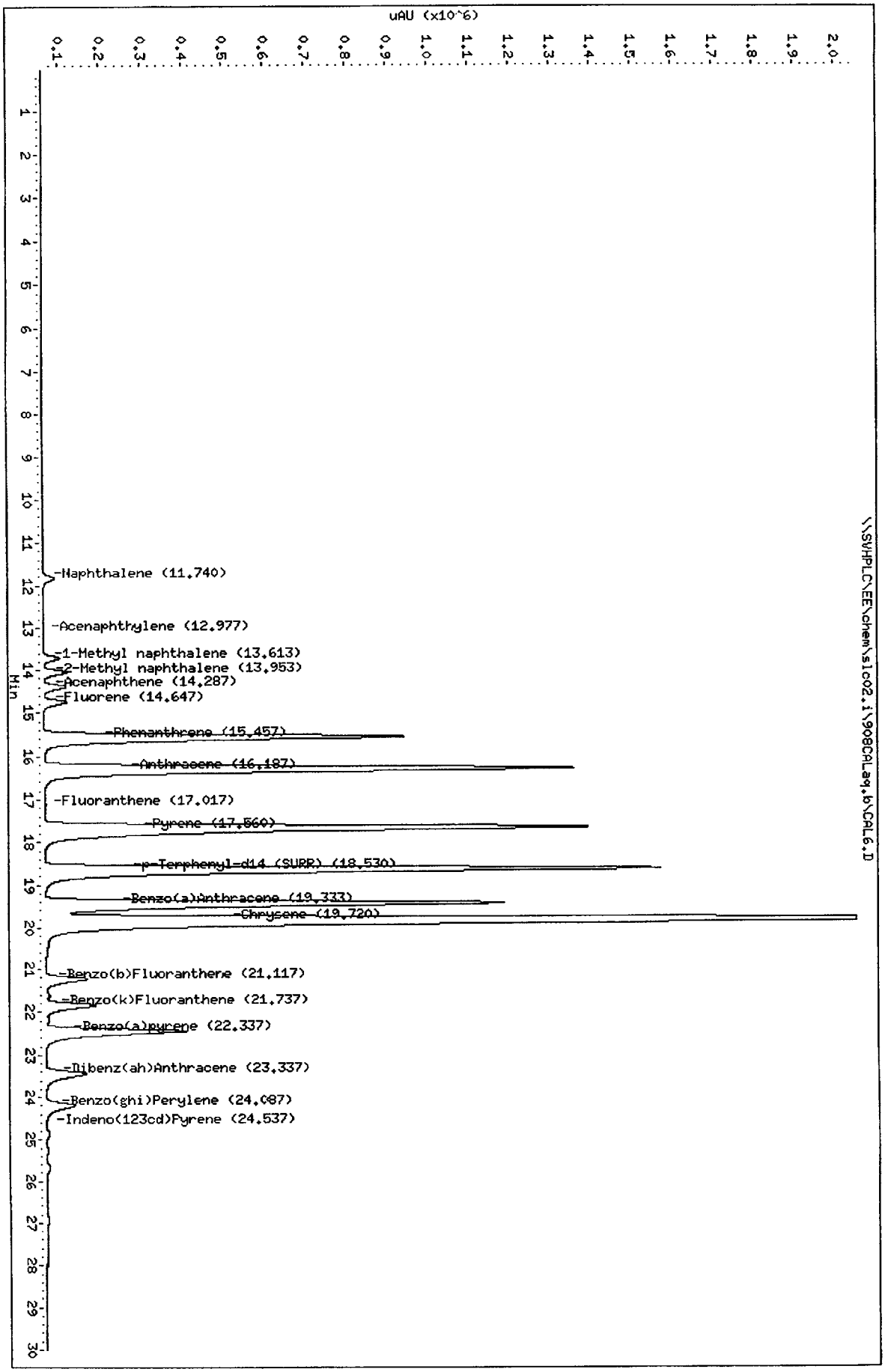
RT	EXP RT	DLT RT	SIGNAL	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO
18 Dibenz(ah)Anthracene						CAS #: 53-70-3		
23.336	23.376	(-0.040)	VWD1A	173779	20.0000	20.5	80.00- 120.00	100.00
23.440	23.376	(0.064)	ADC1A	1104175			487.10- 730.65	635.39
19 Benzo(ghi)Perylene						CAS #: 191-24-2		
24.086	24.113	(-0.027)	VWD1A	273665	20.0000	20.4	80.00- 120.00	100.00
24.190	24.113	(0.077)	ADC1A	795595			222.20- 333.30	290.72
20 Indeno(123cd)Pyrene						CAS #: 193-39-5		
24.536	24.566	(-0.030)	VWD1A	730629	20.0000	20.3		

QC Flag Legend

M - Compound response manually integrated.

Data File: \\SVHPLC\EE\chem\slc02.i\908CALaq.b\CAL6.D
Date : 08-SEP-2002 18:06
Client ID: CAL6
Sample Info: SV6100
Purge Volume: 1000.0
Column phase: Vydac 201TP54

Instrument: slc02.i
Operator: SCOTT
Column diameter: 4.60



Data File: \\SVHPLC\EE\chem\slc02.i\908CALaq.b\CAL7.D
Report Date: 26-Sep-2002 16:55

PEL Laboratories, Inc.

Data file : \\SVHPLC\EE\chem\slc02.i\908CALaq.b\CAL7.D
Lab Smp Id: SV6099 Client Smp ID: CAL7
Inj Date : 08-SEP-2002 18:40
Operator : SCOTT Inst ID: slc02.i
Smp Info : SV6099
Misc Info :
Comment :
Method : \\SVHPLC\ee\chem\slc02.i\908CALaq.b\8310AE.m
Meth Date : 26-Sep-2002 16:55 amarty Quant Type: ESTD
Cal Date : 08-SEP-2002 18:40 Cal File: CAL7.D
Als bottle: 7 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.04 Sample Matrix: WATER
Processing Host: FORMS1

Concentration Formula: Amt * DF * 1/(Vo/1000)*Vt

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume Extracted
Vt	1.000	Final Volume

AMOUNTS

RT	EXP RT	DLT RT	SIGNAL	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
2 Naphthalene						CAS #: 91-20-3		
11.790	11.816	(-0.026)	VWD1A	158540	30.0000	29.5	80.00- 120.00	100.00
11.878	11.816	(0.062)	ADC1A	388293			176.59- 264.89	244.92
3 Acenaphthylene						CAS #: 208-96-8		
13.013	13.033	(-0.020)	VWD1A	119057	30.0000	29.7		
4 1-Methyl naphthalene						CAS #: 90-12-0		
13.646	13.663	(-0.017)	VWD1A	93810			80.00- 120.00	100.00(A)
13.734	13.663	(0.071)	ADC1A	462005	30.0000	30.4	364.80- 547.20	492.49
5 2-Methyl naphthalene						CAS #: 91-57-6		
13.983	13.996	(-0.013)	VWD1A	133409	30.0000	29.8	80.00- 120.00	100.00
14.071	13.996	(0.075)	ADC1A	661618			369.87- 554.80	495.93

Data File: \\SVHPLC\EE\chem\slc02.i\908CALaq.b\CAL7.D
Report Date: 26-Sep-2002 16:55

```
                                                AMOUNTS
                                              CAL-AMT   ON-COL
   RT    EXP RT  DLT RT  SIGNAL RESPONSE (ug/ml)  (ug/ml)   TARGET RANGE    RATIO
   ==    ====== ======== ====== ======== =======  =======   ============    =====

    6 Acenaphthene                                      CAS #: 83-32-9
14.320  14.330  (-0.010) VWD1A     57358                     80.00- 120.00   100.00(A)
14.408  14.330  (0.078) ADC1A    628817 30.0000     30.4 817.25-1225.87  1096.30
-------------------------------------------------------------------------------
    7 Fluorene                                          CAS #: 86-73-7
14.673  14.683  (-0.010) VWD1A    726652 30.0000     29.6
-------------------------------------------------------------------------------
    8 Phenanthrene                                      CAS #: 85-01-8
15.480  15.490  (-0.010) VWD1A   2065023                     80.00- 120.00   100.00
15.571  15.490  (0.081) ADC1A  11403030 30.0000     29.6 442.65- 663.98   552.20
-------------------------------------------------------------------------------
    9 Anthracene                                        CAS #: 120-12-7
16.206  16.213  (-0.007) VWD1A   4343204 30.0000     28.7  80.00- 120.00   100.00
16.301  16.213  (0.088) ADC1A  16763327                 299.84- 449.75   385.97
-------------------------------------------------------------------------------
   10 Fluoranthene                                      CAS #: 206-44-0
17.033  17.043  (-0.010) VWD1A    485052 30.0000     29.6
-------------------------------------------------------------------------------
   11 Pyrene                                            CAS #: 129-00-0
17.573  17.583  (-0.010) VWD1A    426611 30.0000     29.5  80.00- 120.00   100.00
17.666  17.583  (0.083) ADC1A  19294342                3574.73-5362.09  4522.70
-------------------------------------------------------------------------------
$  12 p-Terphenyl-d14 (SURR)                           CAS #: 1718-51-0
18.533  18.546  (-0.013) VWD1A    439304 30.0000     30.4  80.00- 120.00   100.00(AM)
18.639  18.546  (0.093) ADC1A  19348671                3472.33-5208.49  4404.39
-------------------------------------------------------------------------------
   13 Benzo(a)Anthracene                                CAS #: 56-55-3
19.336  19.346  (-0.010) VWD1A   1131326 30.0000     29.7  80.00- 120.00   100.00
19.431  19.346  (0.085) ADC1A  14722876                1046.78-1570.17  1301.38
-------------------------------------------------------------------------------
   14 Chrysene                                          CAS #: 218-01-9
19.723  19.736  (-0.013) VWD1A   1553596 30.0000     29.9  80.00- 120.00   100.00(M)
19.886  19.736  (0.150) ADC1A  26218199                1996.08-2994.11  1687.58
-------------------------------------------------------------------------------
   15 Benzo(b)Fluoranthene                              CAS #: 205-99-2
21.116  21.130  (-0.014) VWD1A   1260627 30.0000     29.8  80.00- 120.00   100.00
21.218  21.130  (0.088) ADC1A   1315658                  80.97- 121.46   104.37
-------------------------------------------------------------------------------
   16 Benzo(k)Fluoranthene                              CAS #: 207-08-9
21.733  21.750  (-0.017) VWD1A    968814 30.0000     29.7  80.00- 120.00   100.00
21.834  21.750  (0.084) ADC1A   1604943                 130.27- 195.41   165.66
-------------------------------------------------------------------------------
   17 Benzo(a)pyrene                                    CAS #: 50-32-8
22.333  22.350  (-0.017) VWD1A   1101300                  80.00- 120.00   100.00
22.434  22.350  (0.084) ADC1A   5007825 30.0000     29.8 356.94- 535.41   454.72
-------------------------------------------------------------------------------
```

Data File: \\SVHPLC\EE\chem\slc02.i\908CALaq.b\CAL7.D
Report Date: 26-Sep-2002 16:55

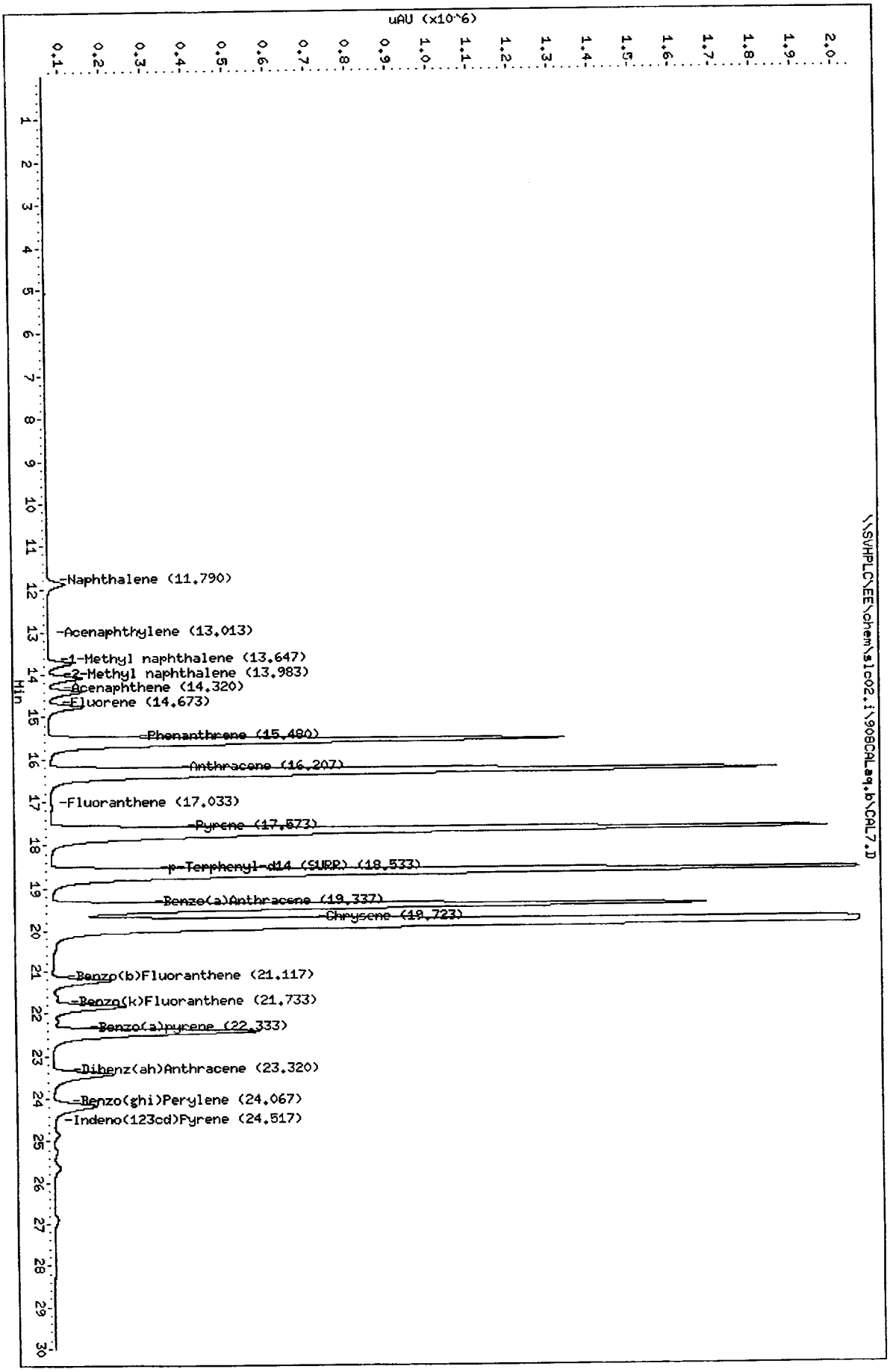
RT	EXP RT	DLT RT	SIGNAL	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	
18 Dibenz(ah)Anthracene						CAS #: 53-70-3			
23.320	23.376	(-0.056)	VWD1A	252248	30.0000	29.7	80.00- 120.00	100.00	
23.421	23.376	(0.045)	ADC1A	1654511			487.10- 730.65	655.91	
19 Benzo(ghi)Perylene						CAS #: 191-24-2			
24.066	24.113	(-0.047)	VWD1A	406597	30.0000	30.3	80.00- 120.00	100.00	(A)
24.168	24.113	(0.055)	ADC1A	1196291			222.20- 333.30	294.22	
20 Indeno(123cd)Pyrene						CAS #: 193-39-5			
24.516	24.566	(-0.050)	VWD1A	1095972	30.0000	30.4			(A)

QC Flag Legend

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

Data File: \\SVHPLC\EE\chem\slc02.i\908CALaq.b\CAL7.D
Date : 08-SEP-2002 18:40
Client ID: CAL7
Sample Info: SV6099
Purge Volume: 1000.0
Column phase: Vydac 201TP54

Instrument: slc02.i
Operator: SCOTT
Column diameter: 4.60



Data File: \\SVHPLC\EE\chem\slc02.i\908CALaq.b\SECCCV.D
Report Date: 26-Sep-2002 16:55

PEL Laboratories, Inc.

Data file : \\SVHPLC\EE\chem\slc02.i\908CALaq.b\SECCCV.D
Lab Smp Id: SV6163 — Client Smp ID: SECCCV
Inj Date : 08-SEP-2002 19:15
Operator : SCOTT — Inst ID: slc02.i
Smp Info : SV6103
Misc Info :
Comment :
Method : \\SVHPLC\ee\chem\slc02.i\908CALaq.b\8310AE.m
Meth Date : 26-Sep-2002 16:55 amarty — Quant Type: ESTD
Cal Date : 08-SEP-2002 18:40 — Cal File: CAL7.D
Als bottle: 8 — Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon — Compound Sublist: all.sub
Target Version: 4.04 — Sample Matrix: WATER
Processing Host: FORMS1

Concentration Formula: Amt * DF * 1/(Vo/1000)*Vt

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume Extracted
Vt	1.000	Final Volume

RT	EXP RT	DLT RT	SIGNAL	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO
2 Naphthalene						CAS #: 91-20-3		
11.816	11.816	(0.000)	VWD1A	79896	15.0000	14.9	80.00- 120.00	100.00
11.911	11.816	(0.095)	ADC1A	176361			176.59- 264.89	220.74
3 Acenaphthylene						CAS #: 208-96-8		
13.033	13.033	(0.000)	VWD1A	56884	15.0000	14.2		
4 1-Methyl naphthalene						CAS #: 90-12-0		
13.663	13.663	(0.000)	VWD1A	50078			80.00- 120.00	100.00
13.754	13.663	(0.091)	ADC1A	228355	15.0000	15.0	364.80- 547.20	456.00
5 2-Methyl naphthalene						CAS #: 91-57-6		
13.996	13.996	(0.000)	VWD1A	64812	15.0000	14.5	80.00- 120.00	100.00
14.088	13.996	(0.092)	ADC1A	299650			369.87- 554.80	462.34

Data File: \\SVHPLC\EE\chem\slc02.i\908CALaq.b\SECCCV.D
Report Date: 26-Sep-2002 16:55

RT	EXP RT	DLT RT	SIGNAL	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO
6 Acenaphthene							CAS #: 83-32-9	
14.330	14.330	(0.000)	VWD1A	28061			80.00- 120.00	100.00
14.423	14.330	(0.093)	ADC1A	286659	15.0000	13.8	817.25-1225.87	1021.56
7 Fluorene							CAS #: 86-73-7	
14.683	14.683	(0.000)	VWD1A	357556	15.0000	14.5		
8 Phenanthrene							CAS #: 85-01-8	
15.490	15.490	(0.000)	VWD1A	1010801			80.00- 120.00	100.00
15.584	15.490	(0.094)	ADC1A	5592916	15.0000	14.5	442.65- 663.98	553.32
9 Anthracene							CAS #: 120-12-7	
16.213	16.213	(0.000)	VWD1A	2229839	15.0000	14.7	80.00- 120.00	100.00
16.311	16.213	(0.098)	ADC1A	8357324			299.84- 449.75	374.79
10 Fluoranthene							CAS #: 206-44-0	
17.043	17.043	(0.000)	VWD1A	236653	15.0000	14.4		
11 Pyrene							CAS #: 129-00-0	
17.583	17.583	(0.000)	VWD1A	210369	15.0000	14.5	80.00- 120.00	100.00
17.679	17.583	(0.096)	ADC1A	9400146			3574.73-5362.09	4468.41
$ 12 p-Terphenyl-d14 (SURR)							CAS #: 1718-51-0	
18.546	18.546	(0.000)	VWD1A	225488	15.0000	15.6	80.00- 120.00	100.00(M)
18.644	18.546	(0.098)	ADC1A	9787101			3472.33-5208.49	4340.41
13 Benzo(a)Anthracene							CAS #: 56-55-3	
19.346	19.346	(0.000)	VWD1A	549082	15.0000	14.4	80.00- 120.00	100.00
19.446	19.346	(0.100)	ADC1A	7184605			1046.78-1570.17	1308.48
14 Chrysene							CAS #: 218-01-9	
19.736	19.736	(0.000)	VWD1A	768636	15.0000	14.8	80.00- 120.00	100.00
19.836	19.736	(0.100)	ADC1A	19178198			1996.08-2994.11	2495.09
15 Benzo(b)Fluoranthene							CAS #: 205-99-2	
21.130	21.130	(0.000)	VWD1A	610929	15.0000	14.4	80.00- 120.00	100.00
21.236	21.130	(0.106)	ADC1A	618346			80.97- 121.46	101.21
16 Benzo(k)Fluoranthene							CAS #: 207-08-9	
21.750	21.750	(0.000)	VWD1A	470945	15.0000	14.4	80.00- 120.00	100.00
21.851	21.750	(0.101)	ADC1A	766881			130.27- 195.41	162.84
17 Benzo(a)pyrene							CAS #: 50-32-8	
22.350	22.350	(0.000)	VWD1A	516024			80.00- 120.00	100.00
22.454	22.350	(0.104)	ADC1A	2302353	15.0000	13.7	356.94- 535.41	446.17

Data File: \\SVHPLC\EE\chem\slc02.i\908CALaq.b\SECCCV.D
Report Date: 26-Sep-2002 16:55

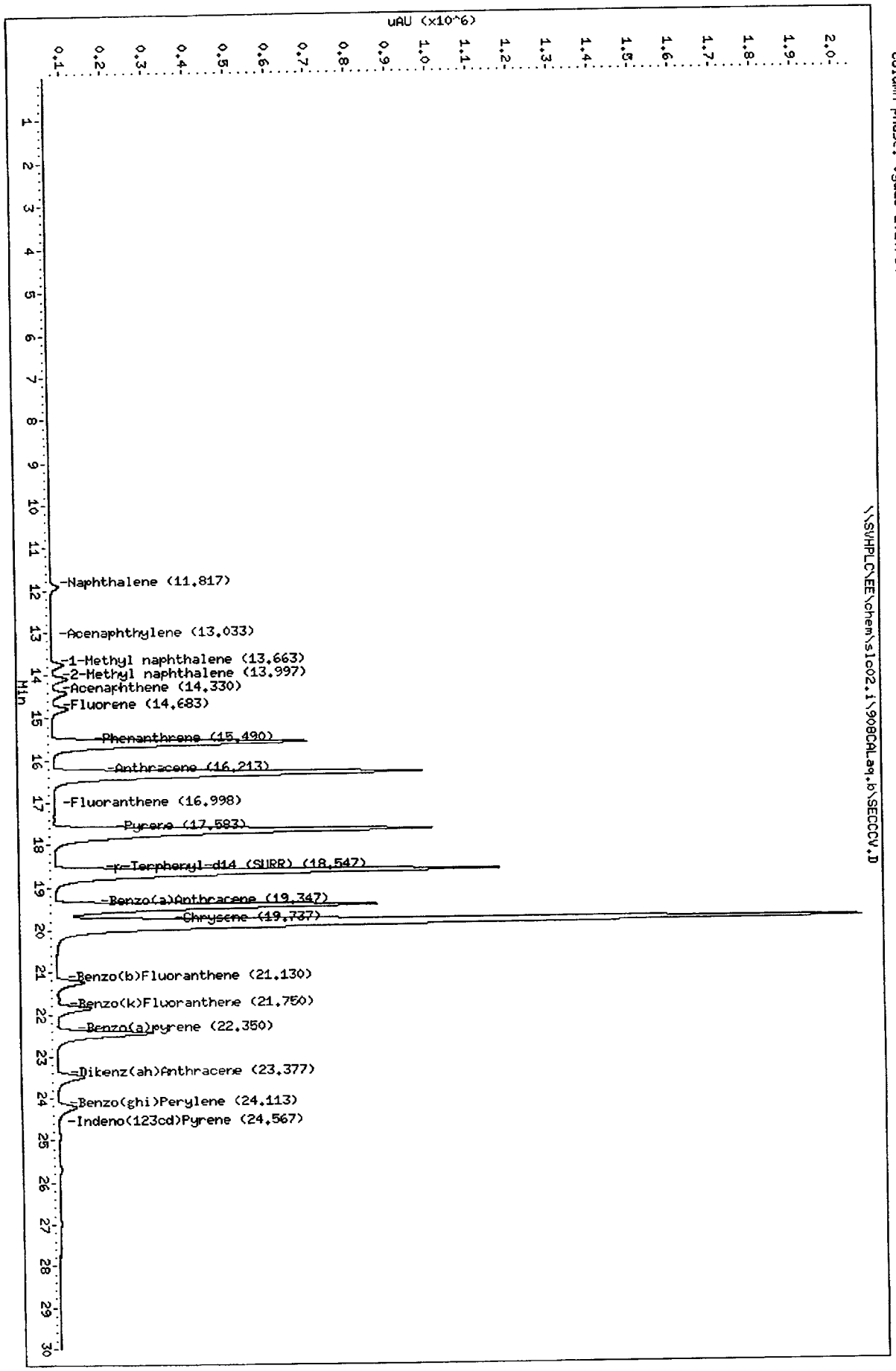
RT	EXP RT	DLT RT	SIGNAL	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO
18 Dibenz(ah)Anthracene						CAS #: 53-70-3		
23.376	23.376	(0.000)	VWD1A	121729	15.0000	14.3	80.00- 120.00	100.00
23.486	23.376	(0.110)	ADC1A	741177			487.10- 730.65	608.87
19 Benzo(ghi)Perylene						CAS #: 191-24-2		
24.113	24.113	(0.000)	VWD1A	185704	15.0000	13.8	80.00- 120.00	100.00
24.223	24.113	(0.110)	ADC1A	515797			222.20- 333.30	277.75
20 Indeno(123cd)Pyrene						CAS #: 193-39-5		
24.566	24.566	(0.000)	VWD1A	488540	15.0000	13.6		

QC Flag Legend

M - Compound response manually integrated.

Data File: \\SVHPLC\EE\chem\slc02.i\908CALaq.b\SECCCV.D
Date : 08-SEP-2002 19:15
Client ID: SECCCV
Sample Info: SV6103
Purge Volume: 1000.0
Column phase: Vydac 201TP54

Instrument: slc02.i
Operator: SCOTT
Column diameter: 4.60



9.19.02 AB | LC2 | 8310 AE | L2091902 | 9.19.02 AB

CCV12 & CCV13

21	SV6163	CCV11, CCV12 &, CCV13
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2	916 LCS	
3	2209102	-10 ms
4		-11 SD
5		-1
6		-2
7		-3
8		-4
9		-5
10		-6
21	SV6163	CCV2
11	2209102	-7
12		-8
13		-9
14		-12
15		-13
21	SV6163	CCV3
21	SHUT	

9.23.02 Reviewed

Data File: \\SVHPLC\EE\chem\slc02.i\L2091902.b\CCV13.D
Report Date: 26-Sep-2002 16:45

PEL Laboratories, Inc.

Data file : \\SVHPLC\EE\chem\slc02.i\L2091902.b\CCV13.D
Lab Smp Id: SV6163 Client Smp ID: CCV13
Inj Date : 19-SEP-2002 19:28
Operator : MARTY Inst ID: slc02.i
Smp Info : SV6163
Misc Info :
Comment :
Method : \\Svhplc\ee\chem\slc02.i\L2091902.b\8310AE.m
Meth Date : 26-Sep-2002 16:43 amarty Quant Type: ESTD
Cal Date : 08-SEP-2002 18:40 Cal File: CAL7.D
Als bottle: 21 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: lowcalwrl.sub
Target Version: 4.04 Sample Matrix: WATER
Processing Host: FORMS1

Concentration Formula: Amt * DF * 1/(Vo/1000)*Vt

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume Extracted
Vt	1.000	Final Volume

RT	EXP RT	DLT RT	SIGNAL	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO
2 Naphthalene						CAS #: 91-20-3		
11.820	11.853	(-0.033)	VWD1A	83736	15.0000	15.6	80.00- 120.00	100.00
11.912	11.853	(0.059)	ADC1A	182955			173.23- 259.84	218.49
3 Acenaphthylene						CAS #: 208-96-8		
13.046	13.076	(-0.030)	VWD1A	59946	15.0000	14.9		
4 1-Methyl naphthalene						CAS #: 90-12-0		
13.676	13.700	(-0.024)	VWD1A	51500			80.00- 120.00	100.00
13.769	13.700	(0.069)	ADC1A	239189	15.0000	15.8	362.11- 543.16	464.44
5 2-Methyl naphthalene						CAS #: 91-57-6		
14.010	14.036	(-0.026)	VWD1A	66221	15.0000	14.8	80.00- 120.00	100.00
14.104	14.036	(0.068)	ADC1A	311692			370.39- 555.58	470.68

Data File: \\SVHPLC\EE\chem\slc02.i\L2091902.b\CCV13.D
Report Date: 26-Sep-2002 16:45

```
                                                AMOUNTS
                                              CAL-AMT   ON-COL
   RT    EXP RT  DLT RT  SIGNAL RESPONSE (ug/ml)  (ug/ml)   TARGET RANGE    RATIO
   ==    ====== ======== ====== ======== =======  =======   ============    =====

    6 Acenaphthene                                      CAS #: 83-32-9
14.343  14.370  (-0.027) VWD1A     29517                     80.00- 120.00   100.00
14.442  14.370  (0.072) ADC1A    297249 15.0000     14.4 791.84-1187.76  1007.04
-------------------------------------------------------------------------------
    7 Fluorene                                          CAS #: 86-73-7
14.703  14.723  (-0.020) VWD1A    369583 15.0000     15.0
-------------------------------------------------------------------------------
    8 Phenanthrene                                      CAS #: 85-01-8
15.510  15.533  (-0.023) VWD1A   1048130                     80.00- 120.00   100.00
15.607  15.533  (0.074) ADC1A   5759882 15.0000     14.9 431.47- 647.21   549.54
-------------------------------------------------------------------------------
    9 Anthracene                                        CAS #: 120-12-7
16.236  16.256  (-0.020) VWD1A   2290778 15.0000     15.2  80.00- 120.00   100.00
16.327  16.256  (0.071) ADC1A   8161200                  287.62- 431.43   356.26
-------------------------------------------------------------------------------
   10 Fluoranthene                                      CAS #: 206-44-0
17.063  17.086  (-0.023) VWD1A    244429 15.0000     14.9
-------------------------------------------------------------------------------
   11 Pyrene                                            CAS #: 129-00-0
17.606  17.630  (-0.024) VWD1A    217018 15.0000     15.0  80.00- 120.00   100.00
17.704  17.630  (0.074) ADC1A  10384419                 3557.61-5336.41  4785.05
-------------------------------------------------------------------------------
$  12 p-Terphenyl-d14 (SURR)                           CAS #: 1718-51-0
18.566  18.590  (-0.024) VWD1A    227794 15.0000     15.8  80.00- 120.00   100.00
18.665  18.590  (0.075) ADC1A   9894095                 3552.49-5328.73  4343.44
-------------------------------------------------------------------------------
   13 Benzo(a)Anthracene                                CAS #: 56-55-3
19.370  19.396  (-0.026) VWD1A    567207 15.0000     14.9  80.00- 120.00   100.00
19.470  19.396  (0.074) ADC1A   7439873                 1027.04-1540.56  1311.67
-------------------------------------------------------------------------------
   14 Chrysene                                          CAS #: 218-01-9
19.756  19.786  (-0.030) VWD1A    809572 15.0000     15.6  80.00- 120.00   100.00
19.865  19.786  (0.079) ADC1A  19899862                 1884.62-2826.92  2458.07
-------------------------------------------------------------------------------
   15 Benzo(b)Fluoranthene                              CAS #: 205-99-2
21.153  21.186  (-0.033) VWD1A    624523 15.0000     14.7  80.00- 120.00   100.00
21.255  21.186  (0.069) ADC1A    636906                   78.89- 118.34   101.98
-------------------------------------------------------------------------------
   16 Benzo(k)Fluoranthene                              CAS #: 207-08-9
21.760  21.796  (-0.036) VWD1A    479427 15.0000     14.7  80.00- 120.00   100.00
21.862  21.796  (0.066) ADC1A    766822                  128.90- 193.35   159.95
-------------------------------------------------------------------------------
   17 Benzo(a)pyrene                                    CAS #: 50-32-8
22.356  22.393  (-0.037) VWD1A    537374                     80.00- 120.00   100.00
22.460  22.393  (0.067) ADC1A   2402552 15.0000     14.3 352.14- 528.21   447.09
-------------------------------------------------------------------------------
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Data File: \\SVHPLC\EE\chem\slc02.i\L2091902.b\CCV13.D
Report Date: 26-Sep-2002 16:45

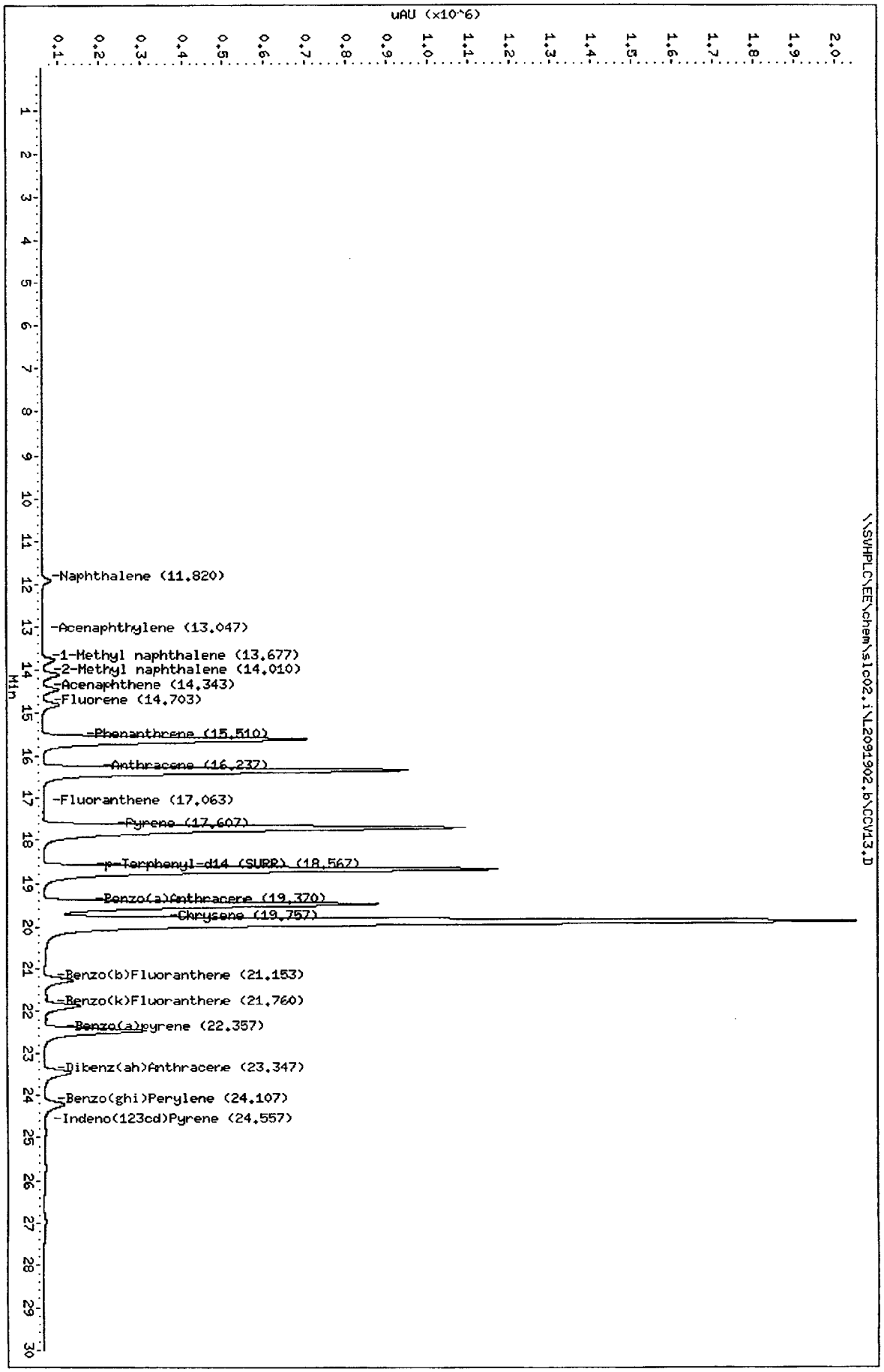
RT	EXP RT	DLT RT	SIGNAL	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	
18 Dibenz(ah)Anthracene						CAS #: 53-70-3			
23.346	23.393	(-0.047)	VWD1A	119314	15.0000	14.1	80.00- 120.00	100.00	
23.454	23.393	(0.061)	ADC1A	733832			489.28- 733.92	615.04	
19 Benzo(ghi)Perylene						CAS #: 191-24-2			
24.106	24.153	(-0.047)	VWD1A	185824	15.0000	13.8	80.00- 120.00	100.00	
24.215	24.153	(0.062)	ADC1A	553272			218.85- 328.28	297.74	
20 Indeno(123cd)Pyrene						CAS #: 193-39-5			
24.556	24.610	(-0.054)	VWD1A	539172	15.0000	15.0			(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\SVHPLC\EE\chem\slc02.i\L20091902.b\CCV13.D
Date : 19-SEP-2002 19:28
Client ID: CCV13
Sample Info: SV6163
Purge Volume: 1000.0
Column phase: Vydac 201TP54

Instrument: slc02.i
Operator: MARTY
Column diameter: 4.60



Data File: \\SVHPLC\EE\chem\slc02.i\L2091902.b\916BLK.D
Report Date: 26-Sep-2002 16:45

PEL Laboratories, Inc.

Data file : \\SVHPLC\EE\chem\slc02.i\L2091902.b\916BLK.D
Lab Smp Id: 80541 Client Smp ID: 91602BLK01
Inj Date : 19-SEP-2002 20:02
Operator : MARTY Inst ID: slc02.i
Smp Info : 80541
Misc Info :
Comment :
Method : \\Svhplc\ee\chem\slc02.i\L2091902.b\8310AE.m
Meth Date : 26-Sep-2002 16:43 amarty Quant Type: ESTD
Cal Date : 08-SEP-2002 18:40 Cal File: CAL7.D
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: lowcalwrl.sub
Target Version: 4.04 Sample Matrix: WATER
Processing Host: FORMS1

Concentration Formula: Amt * DF * 1/(Vo/1000)*Vt

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume Extracted
Vt	1.000	Final Volume

RT	EXP RT	DLT RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/l)	TARGET RANGE	RATIO
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.576	18.590	(-0.014)	VWD1A	257119	17.8269	17.8	80.00- 120.00	100.00(M)
18.671	18.590	(0.081)	ADC1A	11288464			3552.49-5328.73	4390.35

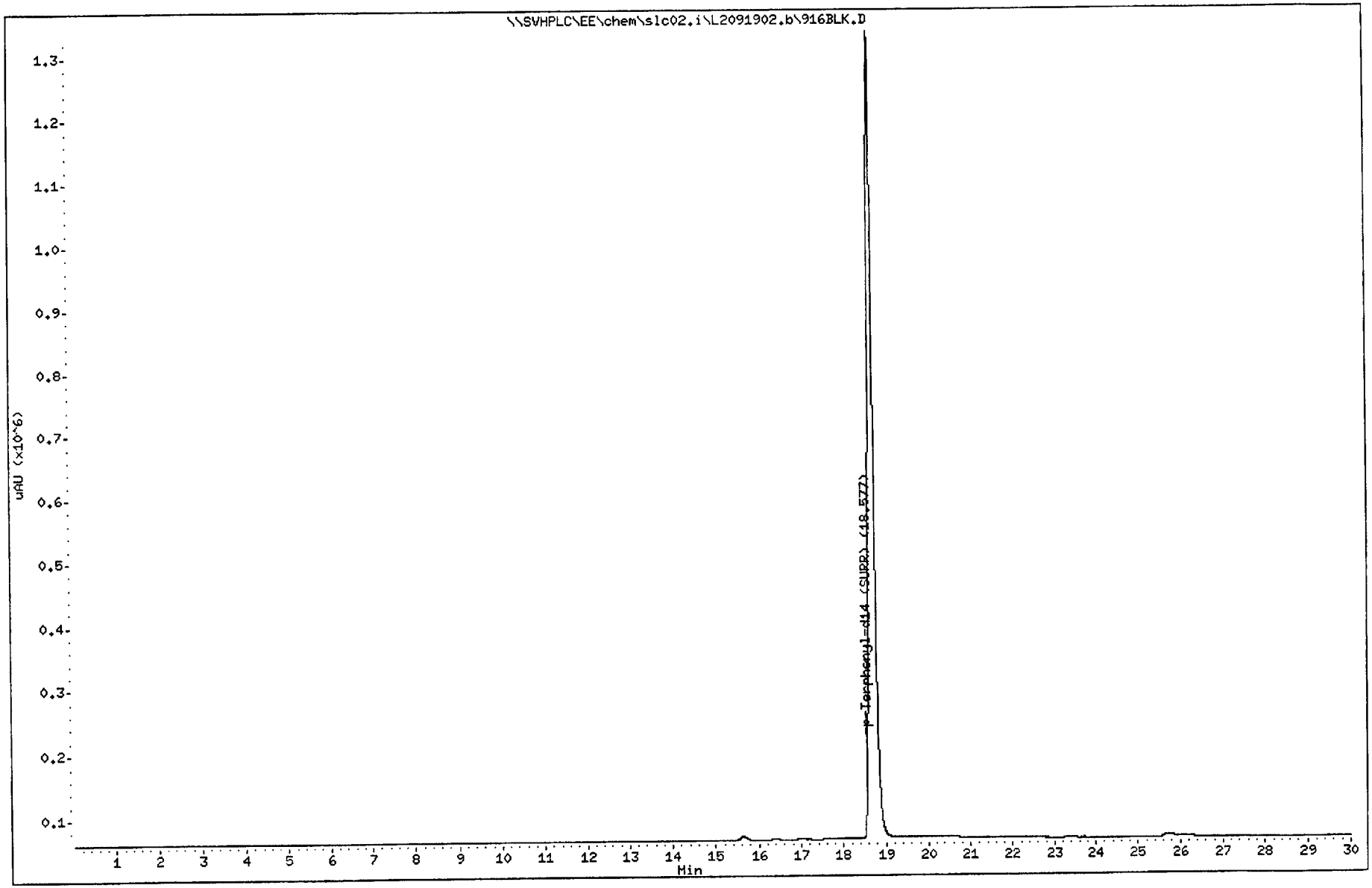
QC Flag Legend

M - Compound response manually integrated.

Data File: \\SVHPLC\EE\chem\slc02.i\L2091902.b\916BLK.D
Date : 19-SEP-2002 20:02
Client ID: 91602BLK01
Sample Info: 80541
Purge Volume: 1000.0
Column phase: Vydac 201TP54

Instrument: slc02.i

Operator: MARTY
Column diameter: 4.60



Data File: \\SVHPLC\EE\chem\slc02.i\L2091902.b\916LCS.D
Report Date: 26-Sep-2002 16:45

PEL Laboratories, Inc.

Data file : \\SVHPLC\EE\chem\slc02.i\L2091902.b\916LCS.D
Lab Smp Id: 80542 Client Smp ID: 91602LCS01
Inj Date : 19-SEP-2002 20:37
Operator : MARTY Inst ID: slc02.i
Smp Info : 80542
Misc Info :
Comment :
Method : \\Svhplc\ee\chem\slc02.i\L2091902.b\8310AE.m
Meth Date : 26-Sep-2002 16:43 amarty Quant Type: ESTD
Cal Date : 08-SEP-2002 18:40 Cal File: CAL7.D
Als bottle: 2 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: lowcalwrl.sub
Target Version: 4.04 Sample Matrix: WATER
Processing Host: FORMS1

Concentration Formula: Amt * DF * 1/(Vo/1000)*Vt

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume Extracted
Vt	1.000	Final Volume

RT	EXP RT	DLT RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/l)	TARGET RANGE	RATIO
2 Naphthalene						CAS #: 91-20-3		
11.823	11.853	(-0.030)	VWD1A	34606	6.44753	6.4	80.00- 120.00	100.00
11.915	11.853	(0.062)	ADC1A	72239			173.23- 259.84	208.75
3 Acenaphthylene						CAS #: 208-96-8		
13.046	13.076	(-0.030)	VWD1A	28752	7.16437	7.2		
4 1-Methyl naphthalene						CAS #: 90-12-0		
13.680	13.700	(-0.020)	VWD1A	21852			80.00- 120.00	100.00
13.768	13.700	(0.068)	ADC1A	86586	5.70226	5.7	362.11- 543.16	396.24
5 2-Methyl naphthalene						CAS #: 91-57-6		
14.016	14.036	(-0.020)	VWD1A	30570	6.83894	6.8	80.00- 120.00	100.00
14.103	14.036	(0.067)	ADC1A	123500			370.39- 555.58	403.99

Data File: \\SVHPLC\EE\chem\slc02.i\L2091902.b\916LCS.D
Report Date: 26-Sep-2002 16:45

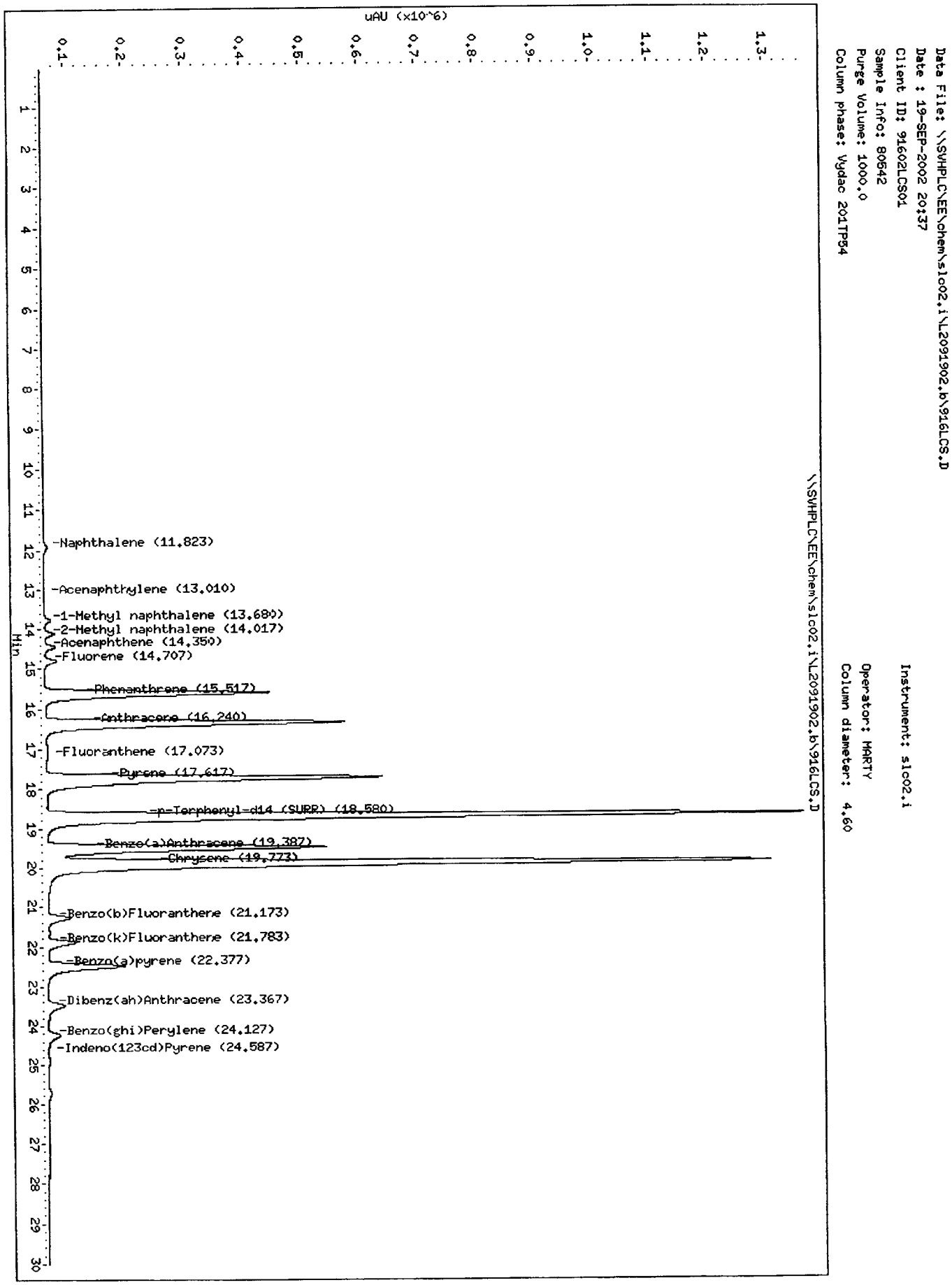
RT	EXP RT	DLT RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/l)	TARGET RANGE	RATIO
6 Acenaphthene						CAS #: 83-32-9		
14.350	14.370	(-0.020)	VWD1A	15016			80.00- 120.00	100.00
14.442	14.370	(0.072)	ADC1A	132701	6.40696	6.4	791.84-1187.76	883.73
7 Fluorene						CAS #: 86-73-7		
14.706	14.723	(-0.017)	VWD1A	189032	7.69089	7.7		
8 Phenanthrene						CAS #: 85-01-8		
15.516	15.533	(-0.017)	VWD1A	607801			80.00- 120.00	100.00
15.608	15.533	(0.075)	ADC1A	3370430	8.74333	8.7	431.47- 647.21	554.53
9 Anthracene						CAS #: 120-12-7		
16.240	16.256	(-0.016)	VWD1A	1310392	8.66670	8.7	80.00- 120.00	100.00
16.337	16.256	(0.081)	ADC1A	4615327			287.62- 431.43	352.21
10 Fluoranthene						CAS #: 206-44-0		
17.073	17.086	(-0.013)	VWD1A	146836	8.97114	9.0		
11 Pyrene						CAS #: 129-00-0		
17.616	17.630	(-0.014)	VWD1A	124385	8.60026	8.6	80.00- 120.00	100.00
17.710	17.630	(0.080)	ADC1A	5814242			3557.61-5336.41	4674.39
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.580	18.590	(-0.010)	VWD1A	266086	18.4486	18.4	80.00- 120.00	100.00(M)
18.673	18.590	(0.083)	ADC1A	11428389			3552.49-5328.73	4294.99
13 Benzo(a)Anthracene						CAS #: 56-55-3		
19.386	19.396	(-0.010)	VWD1A	336881	8.83261	8.8	80.00- 120.00	100.00
19.482	19.396	(0.086)	ADC1A	4364957			1027.04-1540.56	1295.70
14 Chrysene						CAS #: 218-01-9		
19.773	19.786	(-0.013)	VWD1A	488328	9.39432	9.4	80.00- 120.00	100.00
19.872	19.786	(0.086)	ADC1A	11854875			1884.62-2826.92	2427.65
15 Benzo(b)Fluoranthene						CAS #: 205-99-2		
21.173	21.186	(-0.013)	VWD1A	357310	8.43599	8.4	80.00- 120.00	100.00
21.275	21.186	(0.089)	ADC1A	338732			78.89- 118.34	94.80
16 Benzo(k)Fluoranthene						CAS #: 207-08-9		
21.783	21.796	(-0.013)	VWD1A	271262	8.32316	8.3	80.00- 120.00	100.00(M)
21.883	21.796	(0.087)	ADC1A	407581			128.90- 193.35	150.25
17 Benzo(a)pyrene						CAS #: 50-32-8		
22.376	22.393	(-0.017)	VWD1A	295895			80.00- 120.00	100.00
22.480	22.393	(0.087)	ADC1A	1269241	7.55945	7.6	352.14- 528.21	428.95

Data File: \\SVHPLC\EE\chem\slc02.i\L2091902.b\916LCS.D
Report Date: 26-Sep-2002 16:45

RT	EXP RT	DLT RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	CONCENTRATIONS FINAL (ug/l)	TARGET RANGE	RATIO
18 Dibenz(ah)Anthracene						CAS #: 53-70-3		
23.366	23.393	(-0.027)	VWD1A	58907	6.94375	6.9	80.00- 120.00	100.00
23.472	23.393	(0.079)	ADC1A	312249			489.28- 733.92	530.07
19 Benzo(ghi)Perylene						CAS #: 191-24-2		
24.126	24.153	(-0.027)	VWD1A	88645	6.60595	6.6	80.00- 120.00	100.00
24.233	24.153	(0.080)	ADC1A	230385			218.85- 328.28	259.90
20 Indeno(123cd)Pyrene						CAS #: 193-39-5		
24.586	24.610	(-0.024)	VWD1A	226724	6.29348	6.3		

QC Flag Legend

M - Compound response manually integrated.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Date : 19-SEP-2002 20:37
Client ID: 916O2LCS01
Sample Info: 80642
Purge Volume: 1000.0
Column phase: Vydac 201TP54
Instrument: slc02.i
Operator: MARTY
Column diameter: 4.60
\\SVHPLC\EE\chem\slc02.i\L2091902.b\916LCS.D
uAU (x10^6)
Min
-Naphthalene (11.823)
-Acenaphthylene (13.010)
-1-Methyl naphthalene (13.680)
-2-Methyl naphthalene (14.017)
-Acenaphthene (14.350)
-Fluorene (14.707)
-Phenanthrene (15.517)
-Anthracene (16.240)
-Fluoranthene (17.073)
-Pyrene (17.617)
-p-Terphenyl-d14 (SURR) (18.580)
-Benzo(a)Anthracene (19.387)
-Chrysene (19.773)
-Benzo(b)Fluoranthene (21.173)
-Benzo(k)Fluoranthene (21.783)
-Benzo(a)pyrene (22.377)
-Dibenz(ah)Anthracene (23.367)
-Benzo(ghi)Perylene (24.127)
-Indeno(123cd)Pyrene (24.587)

Data File: \\SVHPLC\EE\chem\slc02.i\L2091902.b\102-10MS.D
Report Date: 26-Sep-2002 16:44

PEL Laboratories, Inc.

Data file : \\SVHPLC\EE\chem\slc02.i\L2091902.b\102-10MS.D
Lab Smp Id: 220910210 Client Smp ID: 11Q30228MS
Inj Date : 19-SEP-2002 21:12
Operator : MARTY Inst ID: slc02.i
Smp Info : 220910210
Misc Info :
Comment :
Method : \\Svhplc\ee\chem\slc02.i\L2091902.b\8310AE.m
Meth Date : 26-Sep-2002 16:43 amarty Quant Type: ESTD
Cal Date : 08-SEP-2002 18:40 Cal File: CAL7.D
Als bottle: 3 QC Sample: MS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: lowcalwrl.sub
Target Version: 4.04 Sample Matrix: WATER
Processing Host: FORMS1

Concentration Formula: Amt * DF * 1/(Vo/1000)*Vt

Name	Value	Description
DF	1.000	Dilution Factor
Vo	920.000	Volume Extracted
Vt	1.000	Final Volume

RT	EXP RT	DLT RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/l)	TARGET RANGE	RATIO
2 Naphthalene						CAS #: 91-20-3		
11.853	11.853	(0.000)	VWD1A	22801	4.24811	4.6	80.00- 120.00	100.00(RM)
11.942	11.853	(0.089)	ADC1A	41623			173.23- 259.84	182.55
3 Acenaphthylene						CAS #: 208-96-8		
13.073	13.076	(-0.003)	VWD1A	19270	4.80166	5.2		(R)
4 1-Methyl naphthalene						CAS #: 90-12-0		
13.706	13.700	(0.006)	VWD1A	13641			80.00- 120.00	100.00(QR)
13.789	13.700	(0.089)	ADC1A	49585	3.26550	3.5	362.11- 543.16	363.50
5 2-Methyl naphthalene						CAS #: 91-57-6		
14.030	14.036	(-0.006)	VWD1A	19497	4.36176	4.7	80.00- 120.00	100.00(R)
14.127	14.036	(0.091)	ADC1A	73906			370.39- 555.58	379.06

Data File: \\SVHPLC\EE\chem\slc02.i\L2091902.b\102-10MS.D
Report Date: 26-Sep-2002 16:44

RT	EXP RT	DLT RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/l)	TARGET RANGE	RATIO
6 Acenaphthene						CAS #: 83-32-9		
14.373	14.370	(0.003)	VWD1A	10027			80.00- 120.00	100.00(QR)
14.461	14.370	(0.091)	ADC1A	77846	3.75850	4.1	791.84-1187.76	776.36
7 Fluorene						CAS #: 86-73-7		
14.723	14.723	(0.000)	VWD1A	125790	5.11785	5.6		
8 Phenanthrene						CAS #: 85-01-8		
15.536	15.533	(0.003)	VWD1A	503183			80.00- 120.00	100.00
15.627	15.533	(0.094)	ADC1A	2755913	7.14920	7.8	431.47- 647.21	547.70
9 Anthracene						CAS #: 120-12-7		
16.260	16.256	(0.004)	VWD1A	1097152	7.25637	7.9	80.00- 120.00	100.00
16.351	16.256	(0.095)	ADC1A	3833958			287.62- 431.43	349.45
10 Fluoranthene						CAS #: 206-44-0		
17.090	17.086	(0.004)	VWD1A	138536	8.46404	9.2		
11 Pyrene						CAS #: 129-00-0		
17.630	17.630	(0.000)	VWD1A	120155	8.30779	9.0	80.00- 120.00	100.00
17.724	17.630	(0.094)	ADC1A	5454454			3557.61-5336.41	4539.51
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.590	18.590	(0.000)	VWD1A	247664	17.1714	18.7	80.00- 120.00	100.00(M)
18.684	18.590	(0.094)	ADC1A	10760049			3552.49-5328.73	4344.60
13 Benzo(a)Anthracene						CAS #: 56-55-3		
19.396	19.396	(0.000)	VWD1A	319675	8.38149	9.1	80.00- 120.00	100.00
19.494	19.396	(0.098)	ADC1A	4134345			1027.04-1540.56	1293.30
14 Chrysene						CAS #: 218-01-9		
19.786	19.786	(0.000)	VWD1A	466351	8.97153	9.8	80.00- 120.00	100.00
19.882	19.786	(0.096)	ADC1A	11252818			1884.62-2826.92	2412.95
15 Benzo(b)Fluoranthene						CAS #: 205-99-2		
21.183	21.186	(-0.003)	VWD1A	344298	8.12878	8.8	80.00- 120.00	100.00
21.286	21.186	(0.100)	ADC1A	342917			78.89- 118.34	99.60
16 Benzo(k)Fluoranthene						CAS #: 207-08-9		
21.793	21.796	(-0.003)	VWD1A	264412	8.11297	8.8	80.00- 120.00	100.00(M)
21.894	21.796	(0.098)	ADC1A	402845			128.90- 193.35	152.35
17 Benzo(a)pyrene						CAS #: 50-32-8		
22.390	22.393	(-0.003)	VWD1A	288419			80.00- 120.00	100.00
22.491	22.393	(0.098)	ADC1A	1234720	7.35384	8.0	352.14- 528.21	428.10

Data File: \\SVHPLC\EE\chem\slc02.i\L2091902.b\102-10MS.D
Report Date: 26-Sep-2002 16:44

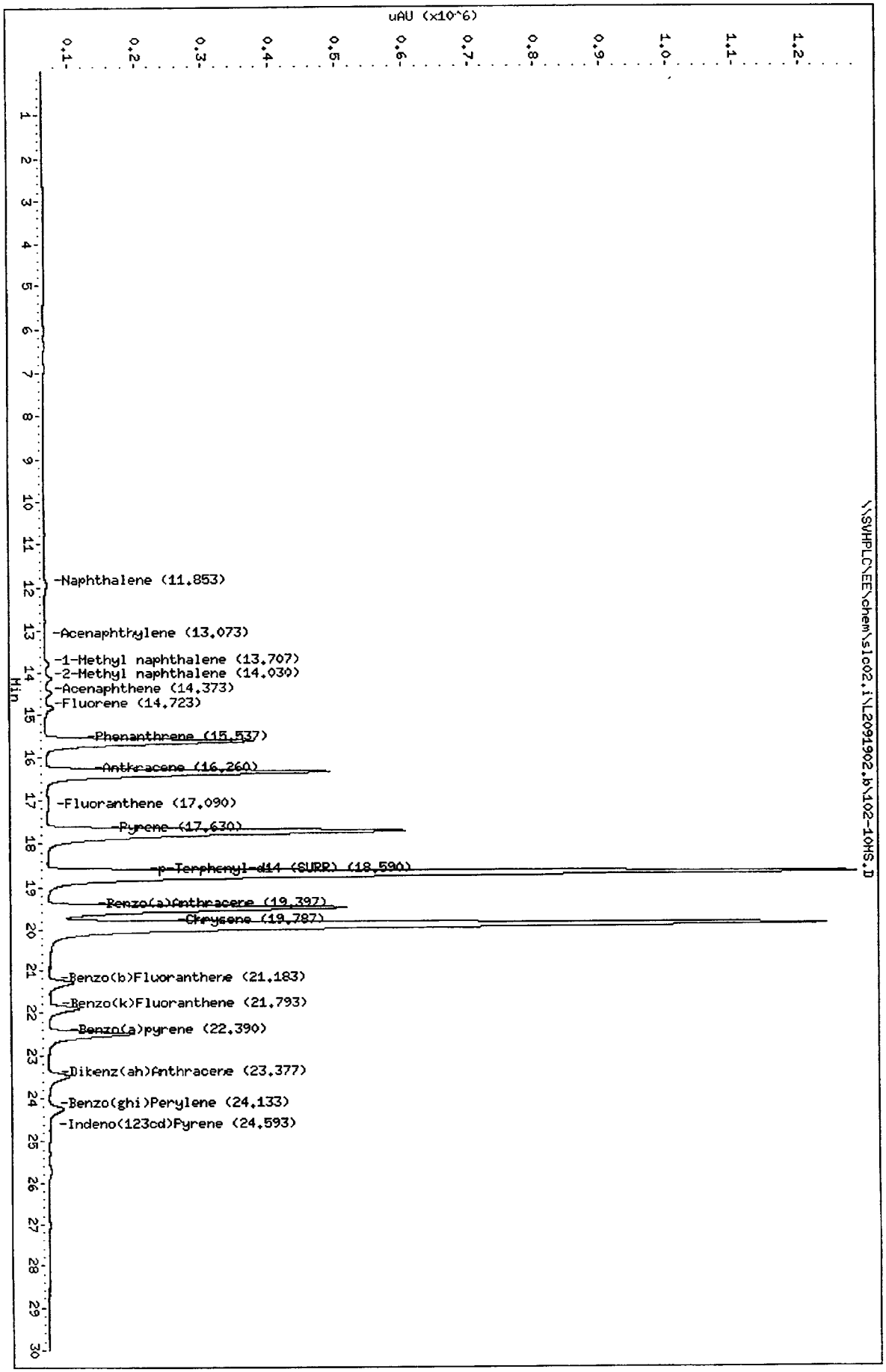
RT	EXP RT	DLT RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/l)	TARGET RANGE	RATIO	
18 Dibenz(ah)Anthracene						CAS #: 53-70-3			
23.376	23.393	(-0.017)	VWD1A	62647	7.38466	8.0	80.00- 120.00	100.00	(M)
23.477	23.393	(0.084)	ADC1A	346216			489.28- 733.92	552.64	
19 Benzo(ghi)Perylene						CAS #: 191-24-2			
24.133	24.153	(-0.020)	VWD1A	94432	7.03721	7.6	80.00- 120.00	100.00	
24.236	24.153	(0.083)	ADC1A	244383			218.85- 328.28	258.79	
20 Indeno(123cd)Pyrene						CAS #: 193-39-5			
24.593	24.610	(-0.017)	VWD1A	274542	7.62084	8.3			(M)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\SVHPLC\EE\chem\slc02.i\L2091902.b\102-10NS.D
Date : 19-SEP-2002 21:12
Client ID: 11Q30228MS
Sample Info: 220910210
Purge Volume: 920.0
Column phase: Vydac 201TP54

Instrument: slc02.i
Operator: MARTY
Column diameter: 4.60



Data File: \\SVHPLC\EE\chem\slc02.i\L2091902.b\102-11SD.D
Report Date: 26-Sep-2002 16:44

PEL Laboratories, Inc.

Data file : \\SVHPLC\EE\chem\slc02.i\L2091902.b\102-11SD.D
Lab Smp Id: 220910211 Client Smp ID: 11Q30228MSD
Inj Date : 19-SEP-2002 21:46
Operator : MARTY Inst ID: slc02.i
Smp Info : 220910211
Misc Info :
Comment :
Method : \\Svhplc\ee\chem\slc02.i\L2091902.b\8310AE.m
Meth Date : 26-Sep-2002 16:43 amarty Quant Type: ESTD
Cal Date : 08-SEP-2002 18:40 Cal File: CAL7.D
Als bottle: 4 QC Sample: MSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: lowcalwrl.sub
Target Version: 4.04 Sample Matrix: WATER
Processing Host: FORMS1

Concentration Formula: Amt * DF * 1/(Vo/1000)*Vt

Name	Value	Description
DF	1.000	Dilution Factor
Vo	945.000	Volume Extracted
Vt	1.000	Final Volume

RT	EXP RT	DLT RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/l)	TARGET RANGE	RATIO
2 Naphthalene						CAS #: 91-20-3		
11.860	11.853	(0.007)	VWD1A	25815	4.80965	5.1	80.00- 120.00	100.00
11.953	11.853	(0.100)	ADC1A	49054			173.23- 259.84	190.02
3 Acenaphthylene						CAS #: 208-96-8		
13.076	13.076	(0.000)	VWD1A	21403	5.33316	5.6		
4 1-Methyl naphthalene						CAS #: 90-12-0		
13.706	13.700	(0.006)	VWD1A	15454			80.00- 120.00	100.00(R)
13.798	13.700	(0.098)	ADC1A	57054	3.75738	4.0	362.11- 543.16	369.19
5 2-Methyl naphthalene						CAS #: 91-57-6		
14.046	14.036	(0.010)	VWD1A	22567	5.04856	5.3	80.00- 120.00	100.00(R)
14.134	14.036	(0.098)	ADC1A	85742			370.39- 555.58	379.94

Data File: \\SVHPLC\EE\chem\slc02.i\L2091902.b\102-11SD.D
Report Date: 26-Sep-2002 16:44

RT	EXP RT	DLT RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/l)	TARGET RANGE	RATIO
6 Acenaphthene						CAS #: 83-32-9		
14.383	14.370	(0.013)	VWD1A	11201			80.00- 120.00	100.00(QR)
14.469	14.370	(0.099)	ADC1A	90750	4.38152	4.6	791.84-1187.76	810.20
7 Fluorene						CAS #: 86-73-7		
14.733	14.723	(0.010)	VWD1A	141382	5.75222	6.1		
8 Phenanthrene						CAS #: 85-01-8		
15.540	15.533	(0.007)	VWD1A	526038			80.00- 120.00	100.00
15.631	15.533	(0.098)	ADC1A	2897530	7.51657	8.0	431.47- 647.21	550.82
9 Anthracene						CAS #: 120-12-7		
16.263	16.256	(0.007)	VWD1A	1149546	7.60289	8.0	80.00- 120.00	100.00
16.358	16.256	(0.102)	ADC1A	4057375			287.62- 431.43	352.95
10 Fluoranthene						CAS #: 206-44-0		
17.093	17.086	(0.007)	VWD1A	137570	8.40502	8.9		
11 Pyrene						CAS #: 129-00-0		
17.636	17.630	(0.006)	VWD1A	115803	8.00688	8.5	80.00- 120.00	100.00
17.729	17.630	(0.099)	ADC1A	5327138			3557.61-5336.41	4600.17
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.593	18.590	(0.003)	VWD1A	248440	17.2252	18.2	80.00- 120.00	100.00
18.688	18.590	(0.098)	ADC1A	10632753			3552.49-5328.73	4279.81
13 Benzo(a)Anthracene						CAS #: 56-55-3		
19.400	19.396	(0.004)	VWD1A	311077	8.15606	8.6	80.00- 120.00	100.00
19.498	19.396	(0.102)	ADC1A	4008487			1027.04-1540.56	1288.58
14 Chrysene						CAS #: 218-01-9		
19.790	19.786	(0.004)	VWD1A	456245	8.77711	9.3	80.00- 120.00	100.00
19.886	19.786	(0.100)	ADC1A	10896064			1884.62-2826.92	2388.20
15 Benzo(b)Fluoranthene						CAS #: 205-99-2		
21.190	21.186	(0.004)	VWD1A	334913	7.90720	8.4	80.00- 120.00	100.00
21.291	21.186	(0.105)	ADC1A	340076			78.89- 118.34	101.54
16 Benzo(k)Fluoranthene						CAS #: 207-08-9		
21.800	21.796	(0.004)	VWD1A	258674	7.93692	8.4	80.00- 120.00	100.00(M)
21.901	21.796	(0.105)	ADC1A	392149			128.90- 193.35	151.60
17 Benzo(a)pyrene						CAS #: 50-32-8		
22.396	22.393	(0.003)	VWD1A	279156			80.00- 120.00	100.00
22.501	22.393	(0.108)	ADC1A	1195469	7.12007	7.5	352.14- 528.21	428.24

Data File: \\SVHPLC\EE\chem\slc02.i\L2091902.b\102-11SD.D
Report Date: 26-Sep-2002 16:44

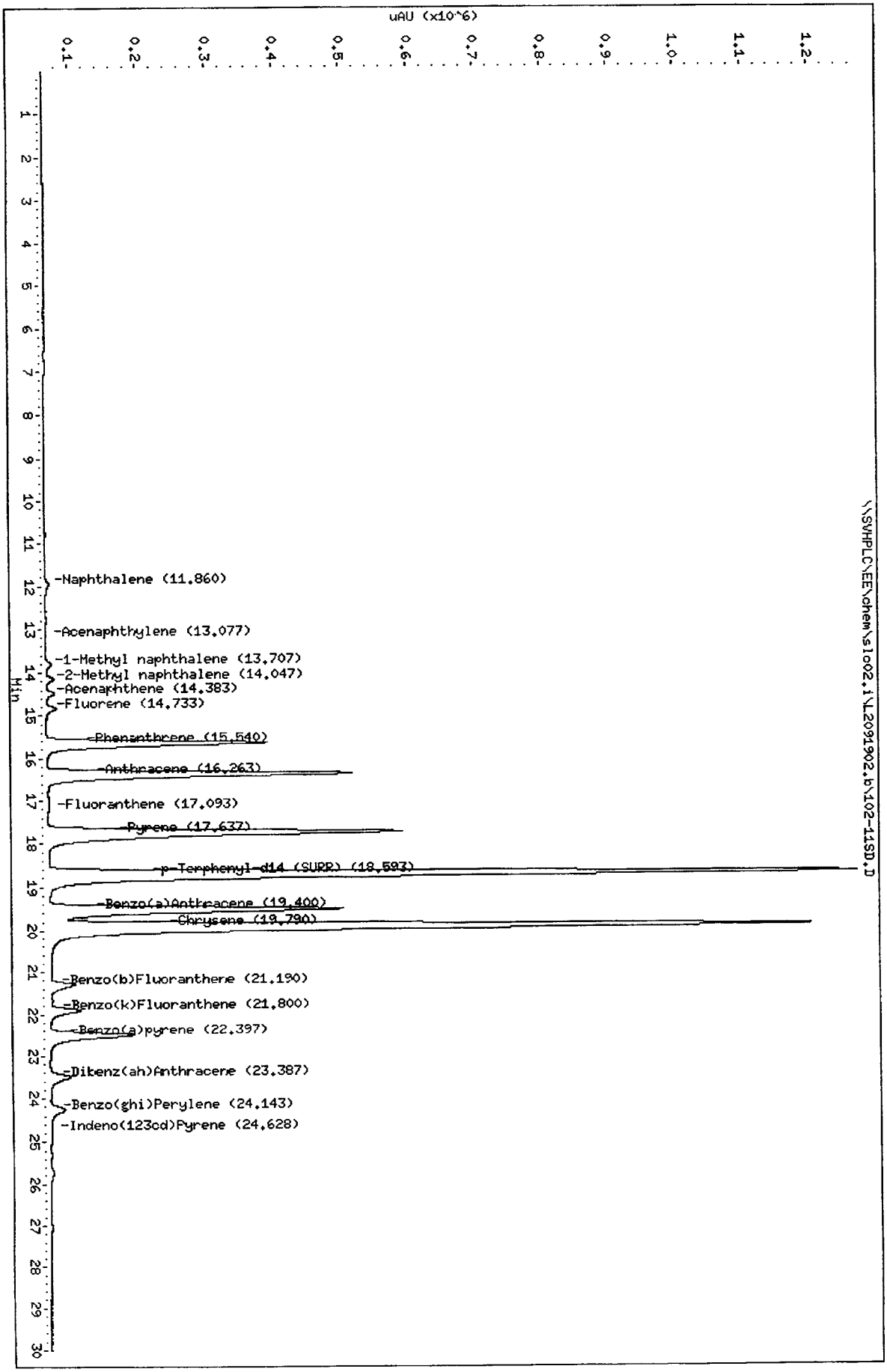
RT	EXP RT	DLT RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/l)	TARGET RANGE	RATIO
18 Dibenz(ah)Anthracene						CAS #: 53-70-3		
23.386	23.393	(-0.007)	VWD1A	60556	7.13813	7.6	80.00- 120.00	100.00
23.491	23.393	(0.098)	ADC1A	332568			489.28- 733.92	549.19
19 Benzo(ghi)Perylene						CAS #: 191-24-2		
24.143	24.153	(-0.010)	VWD1A	90264	6.72660	7.1	80.00- 120.00	100.00
24.251	24.153	(0.098)	ADC1A	236413			218.85- 328.28	261.91
20 Indeno(123cd)Pyrene						CAS #: 193-39-5		
24.603	24.610	(-0.007)	VWD1A	238332	6.61570	7.0		

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\SVHPLC\EE\chem\slc02.i\L2091902.b\102-11SD.D
Date : 19-SEP-2002 21:46
Client ID: 11Q30228MSD
Sample Info: 220910211
Purge Volume: 945.0
Column phase: Vydac 201TP54

Instrument: slc02.i
Operator: HARTY
Column diameter: 4.60



Data File: \\SVHPLC\EE\chem\slc02.i\L2091902.b\102-1.D
Report Date: 26-Sep-2002 16:44

PEL Laboratories, Inc.

Data file : \\SVHPLC\EE\chem\slc02.i\L2091902.b\102-1.D
Lab Smp Id: 220910201 Client Smp ID: 01Q30228
Inj Date : 19-SEP-2002 22:21
Operator : MARTY Inst ID: slc02.i
Smp Info : 220910201
Misc Info :
Comment :
Method : \\Svhplc\ee\chem\slc02.i\L2091902.b\8310AE.m
Meth Date : 26-Sep-2002 16:43 amarty Quant Type: ESTD
Cal Date : 08-SEP-2002 18:40 Cal File: CAL7.D
Als bottle: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: lowcalwrl.sub
Target Version: 4.04 Sample Matrix: WATER
Processing Host: FORMS1

Concentration Formula: Amt * DF * 1/(Vo/1000)*Vt

Name	Value	Description
DF	1.000	Dilution Factor
Vo	950.000	Volume Extracted
Vt	1.000	Final Volume

RT	EXP RT	DLT RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/l)	TARGET RANGE	RATIO
8 Phenanthrene						CAS #: 85-01-8		
15.540	15.533	(0.007)	VWD1A	16037			80.00- 120.00	100.00(QM)
15.633	15.533	(0.100)	ADC1A	59531	0.15443	0.16	431.47- 647.21	371.20
10 Fluoranthene						CAS #: 206-44-0		
17.020	17.086	(-0.066)	VWD1A	2564	0.15665	0.16		(M)
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.593	18.590	(0.003)	VWD1A	238197	16.5150	17.4	80.00- 120.00	100.00
18.686	18.590	(0.096)	ADC1A	10310367			3552.49-5328.73	4328.50

Data File: \\SVHPLC\EE\chem\slc02.i\L2091902.b\102-1.D
Report Date: 26-Sep-2002 16:44

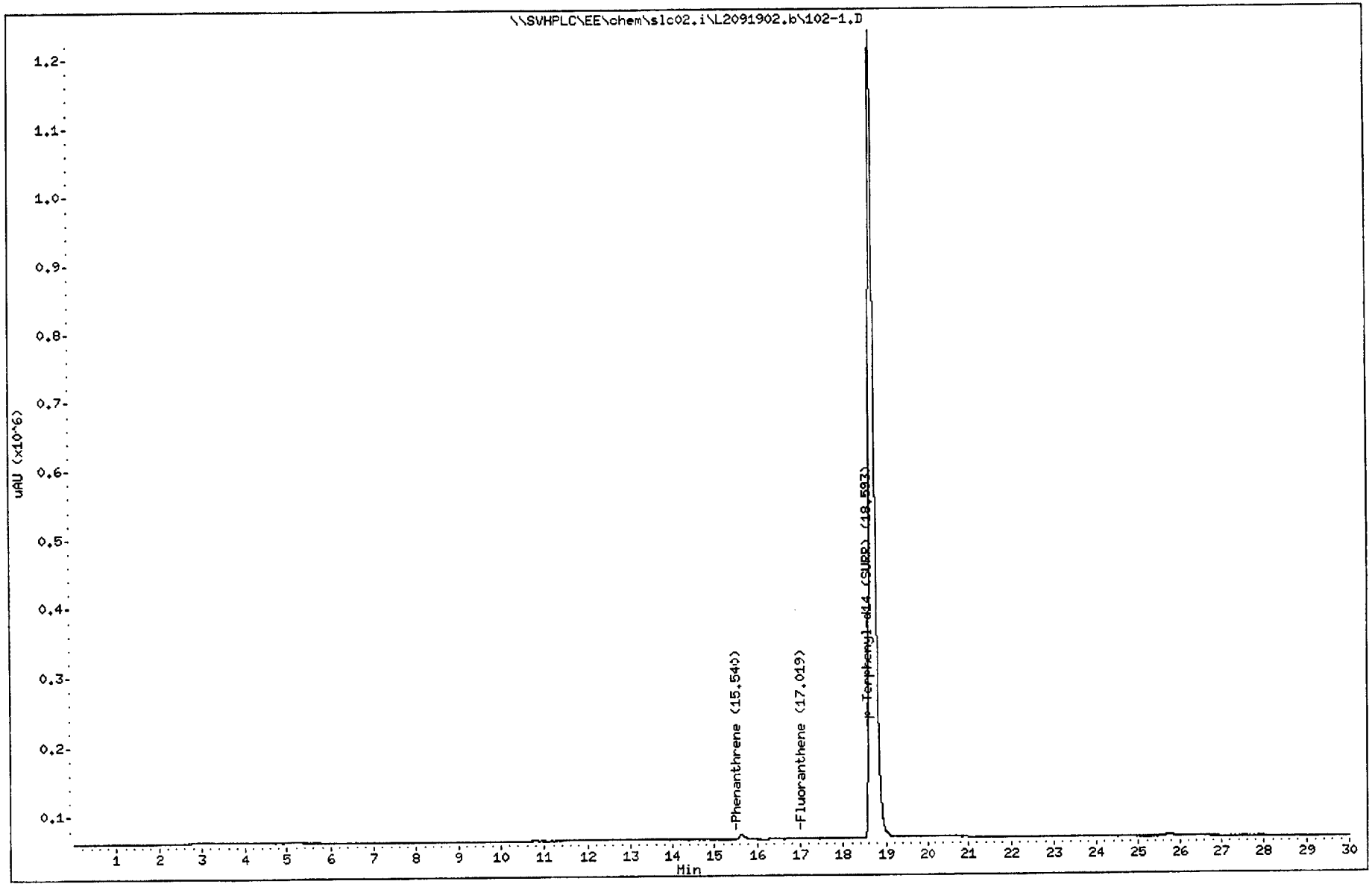
QC Flag Legend

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

Data File: \\SVHPLC\EE\chem\slc02.i\L2091902.b\102-1.D
Date : 19-SEP-2002 22:21
Client ID: 01Q30228
Sample Info: 220910201
Purge Volume: 950.0
Column phase: Vydac 201TP54

Instrument: slc02.i

Operator: MARTY
Column diameter: 4.60



Data File: \\SVHPLC\EE\chem\slc02.i\L2091902.b\102-2.D
Report Date: 26-Sep-2002 16:44

PEL Laboratories, Inc.

Data file : \\SVHPLC\EE\chem\slc02.i\L2091902.b\102-2.D
Lab Smp Id: 220910202 Client Smp ID: 02Q30228
Inj Date : 19-SEP-2002 22:55
Operator : MARTY Inst ID: slc02.i
Smp Info : 220910202
Misc Info :
Comment :
Method : \\Svhplc\ee\chem\slc02.i\L2091902.b\8310AE.m
Meth Date : 26-Sep-2002 16:43 amarty Quant Type: ESTD
Cal Date : 08-SEP-2002 18:40 Cal File: CAL7.D
Als bottle: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: lowcalwrl.sub
Target Version: 4.04 Sample Matrix: WATER
Processing Host: FORMS1

Concentration Formula: Amt * DF * 1/(Vo/1000)*Vt

Name	Value	Description
DF	1.000	Dilution Factor
Vo	950.000	Volume Extracted
Vt	1.000	Final Volume

RT	EXP RT	DLT RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/l)	TARGET RANGE	RATIO
2 Naphthalene						CAS #: 91-20-3		
11.856	11.853	(0.003)	VWD1A	1255	0.23382	0.25	80.00- 120.00	100.00(QM)
11.918	11.853	(0.065)	ADC1A	6563			173.23- 259.84	522.67
5 2-Methyl naphthalene						CAS #: 91-57-6		
14.033	14.036	(-0.003)	VWD1A	1888	0.42237	0.44	80.00- 120.00	100.00(QM)
14.120	14.036	(0.084)	ADC1A	4927			370.39- 555.58	260.96
7 Fluorene						CAS #: 86-73-7		
14.723	14.723	(0.000)	VWD1A	2636	0.10725	0.11		(M)
8 Phenanthrene						CAS #: 85-01-8		
15.526	15.533	(-0.007)	VWD1A	34849			80.00- 120.00	100.00(Q)
15.618	15.533	(0.085)	ADC1A	149326	0.38737	0.41	431.47- 647.21	428.49

Data File: \\SVHPLC\EE\chem\slc02.i\L2091902.b\102-2.D
Report Date: 26-Sep-2002 16:44

RT	EXP RT	DLT RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/l)	TARGET RANGE	RATIO
10 Fluoranthene						CAS #: 206-44-0		
17.013	17.086	(-0.073)	VWD1A	5265	0.32170	0.34		(M)
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.583	18.590	(-0.007)	VWD1A	250610	17.3756	18.3	80.00- 120.00	100.00
18.678	18.590	(0.088)	ADC1A	10719054			3552.49-5328.73	4277.19

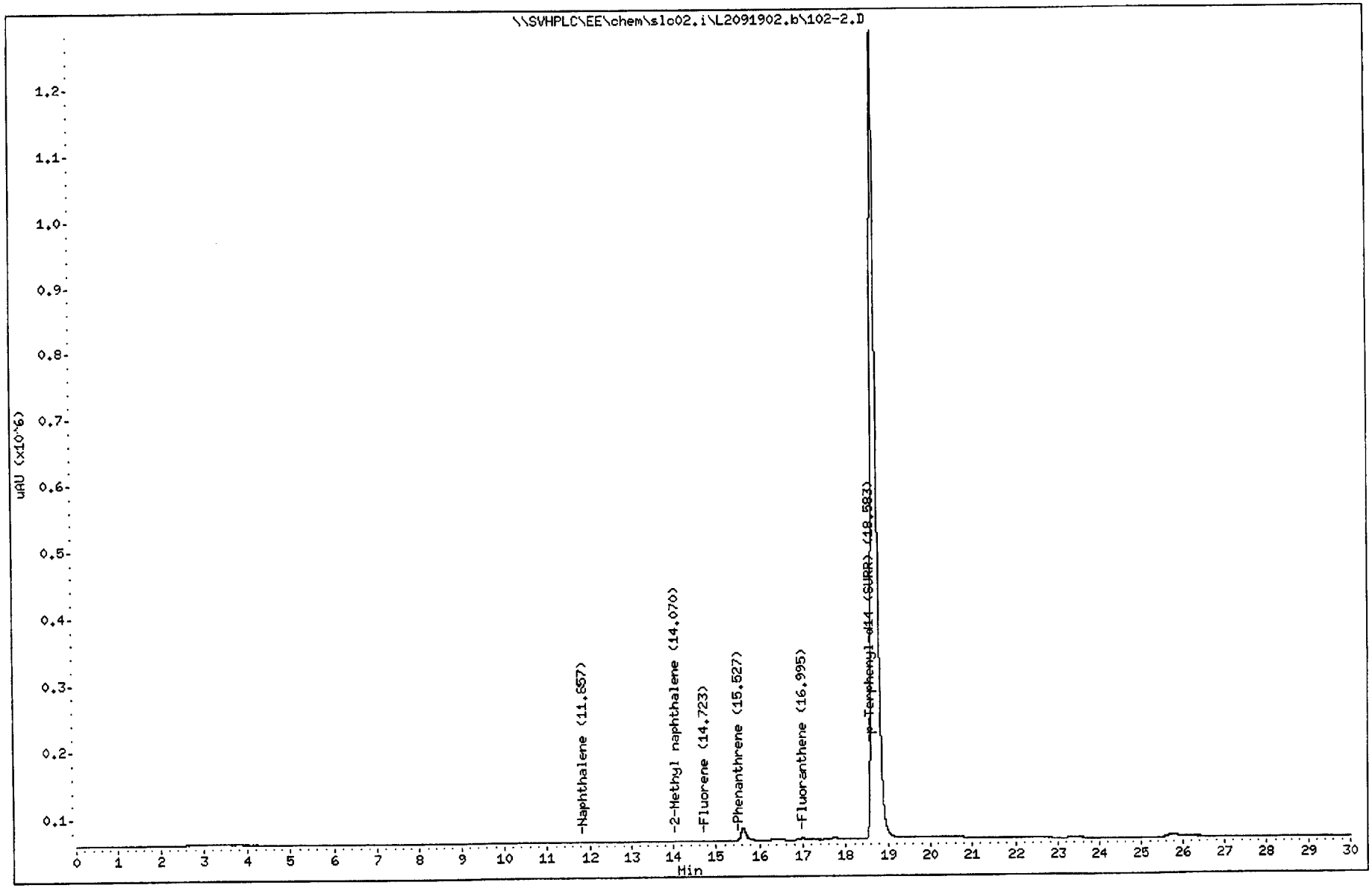
QC Flag Legend

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

Data File: \\SVHPLC\EE\chem\slc02.i\L2091902.b\102-2.D
Date : 19-SEP-2002 22:55
Client ID: 02Q30228
Sample Info: 220910202
Purge Volume: 950.0
Column phase: Vydac 201TP54

Instrument: slc02.i

Operator: MARTY
Column diameter: 4.60



Data File: \\SVHPLC\EE\chem\slc02.i\L2091902.b\102-3.D
Report Date: 26-Sep-2002 16:45

PEL Laboratories, Inc.

Data file : \\SVHPLC\EE\chem\slc02.i\L2091902.b\102-3.D
Lab Smp Id: 220910203 Client Smp ID: 03Q30228
Inj Date : 19-SEP-2002 23:30
Operator : MARTY Inst ID: slc02.i
Smp Info : 220910203
Misc Info :
Comment :
Method : \\Svhplc\ee\chem\slc02.i\L2091902.b\8310AE.m
Meth Date : 26-Sep-2002 16:43 amarty Quant Type: ESTD
Cal Date : 08-SEP-2002 18:40 Cal File: CAL7.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: lowcalwrl.sub
Target Version: 4.04 Sample Matrix: WATER
Processing Host: FORMS1

Concentration Formula: Amt * DF * 1/(Vo/1000)*Vt

Name	Value	Description
DF	1.000	Dilution Factor
Vo	930.000	Volume Extracted
Vt	1.000	Final Volume

RT	EXP RT	DLT RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/l)	TARGET RANGE	RATIO
5 2-Methyl naphthalene						CAS #: 91-57-6		
14.056	14.036	(0.020)	VWD1A	1631	0.36506	0.39	80.00- 120.00	100.00(QM)
14.141	14.036	(0.105)	ADC1A	393			370.39- 555.58	24.13
8 Phenanthrene						CAS #: 85-01-8		
15.533	15.533	(0.000)	VWD1A	15263			80.00- 120.00	100.00(M)
15.624	15.533	(0.091)	ADC1A	72236	0.18739	0.20	431.47- 647.21	473.25
10 Fluoranthene						CAS #: 206-44-0		
17.100	17.086	(0.014)	VWD1A	1590	0.09717	0.10		(M)
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.590	18.590	(0.000)	VWD1A	231653	16.0613	17.3	80.00- 120.00	100.00
18.686	18.590	(0.096)	ADC1A	9926345			3552.49-5328.73	4285.01

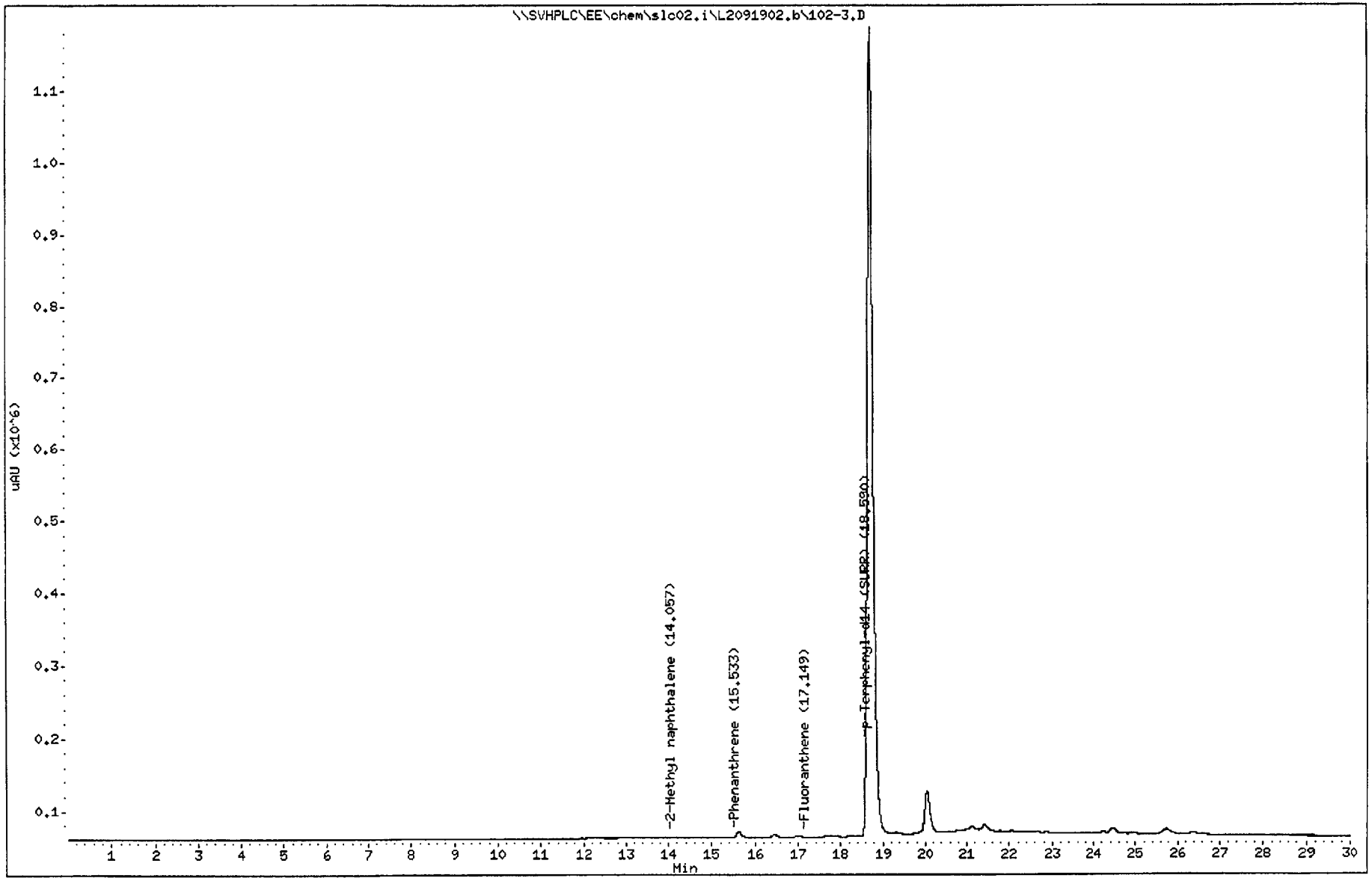
Data File: \\SVHPLC\EE\chem\slc02.i\L2091902.b\102-3.D
Report Date: 26-Sep-2002 16:45

QC Flag Legend

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

Data File: \\SVHPLC\EE\chem\slc02.i\L2091902.b\102-3.D
Date : 19-SEP-2002 23:30
Client ID: 03Q30228
Sample Info: 220910203
Purge Volume: 930.0
Column phase: Vydac 201TP54

Instrument: slc02.i
Operator: MARTY
Column diameter: 4.60



Data File: \\SVHPLC\EE\chem\slc02.i\L2091902.b\102-4.D
Report Date: 26-Sep-2002 16:45

PEL Laboratories, Inc.

Data file : \\SVHPLC\EE\chem\slc02.i\L2091902.b\102-4.D
Lab Smp Id: 220910204 Client Smp ID: 04Q30228
Inj Date : 20-SEP-2002 00:04
Operator : MARTY Inst ID: slc02.i
Smp Info : 220910204
Misc Info :
Comment :
Method : \\Svhplc\ee\chem\slc02.i\L2091902.b\8310AE.m
Meth Date : 26-Sep-2002 16:43 amarty Quant Type: ESTD
Cal Date : 08-SEP-2002 18:40 Cal File: CAL7.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: lowcalwrl.sub
Target Version: 4.04 Sample Matrix: WATER
Processing Host: FORMS1

Concentration Formula: Amt * DF * 1/(Vo/1000)*Vt

Name	Value	Description
DF	1.000	Dilution Factor
Vo	920.000	Volume Extracted
Vt	1.000	Final Volume

RT	EXP RT	DLT RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/l)	TARGET RANGE	RATIO
7 Fluorene						CAS #: 86-73-7		
14.726	14.723	(0.003)	VWD1A	1247	0.05074	0.055		(M)
8 Phenanthrene						CAS #: 85-01-8		
15.540	15.533	(0.007)	VWD1A	15132			80.00- 120.00	100.00(QM)
15.635	15.533	(0.102)	ADC1A	57600	0.14942	0.16	431.47- 647.21	380.64
10 Fluoranthene						CAS #: 206-44-0		
17.083	17.086	(-0.003)	VWD1A	1451	0.08866	0.096		(M)
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.590	18.590	(0.000)	VWD1A	245664	17.0327	18.5	80.00- 120.00	100.00
18.684	18.590	(0.094)	ADC1A	10622715			3552.49-5328.73	4324.08

Data File: \\SVHPLC\EE\chem\slc02.i\L2091902.b\102-4.D
Report Date: 26-Sep-2002 16:45

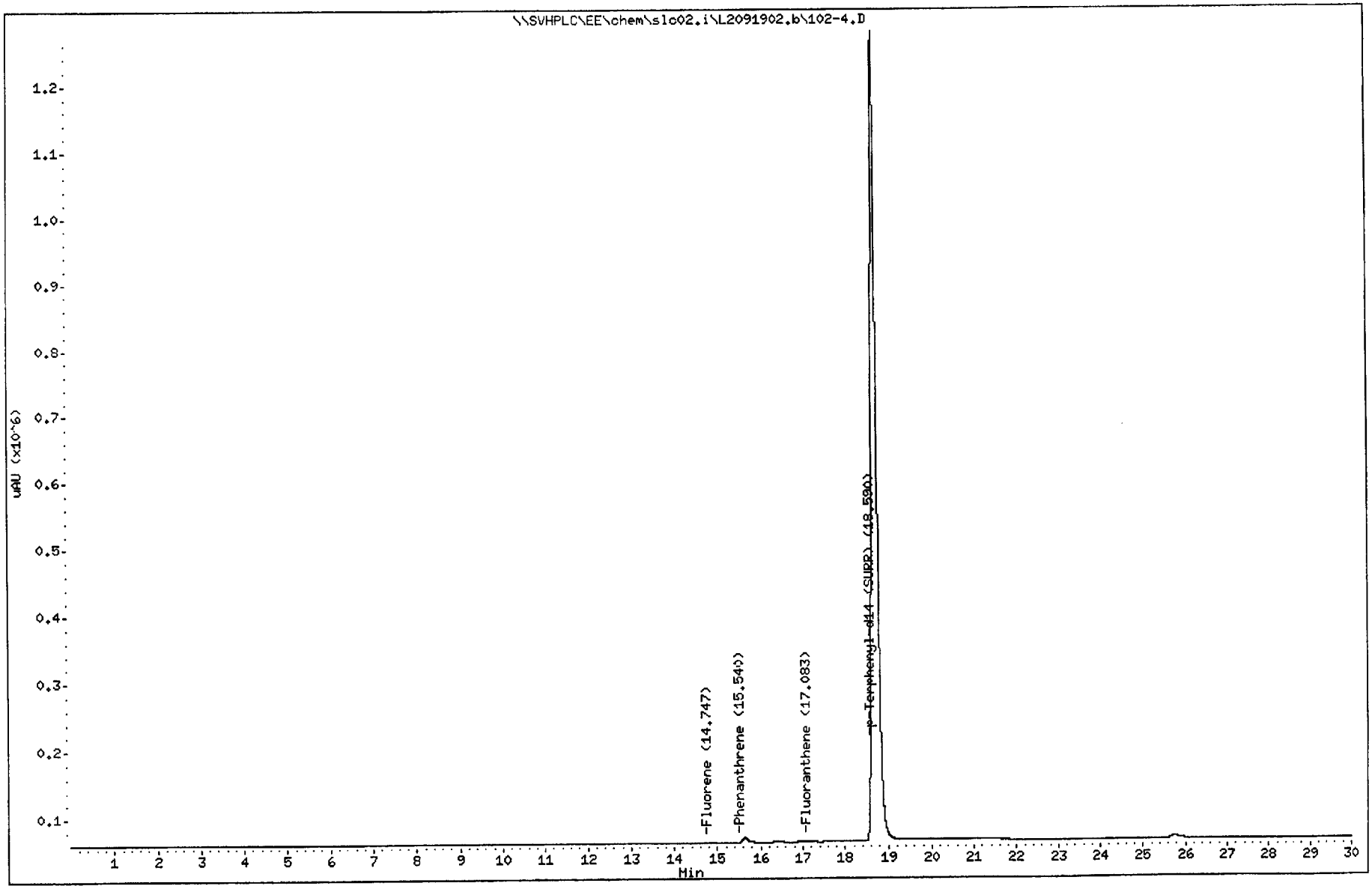
QC Flag Legend

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

Data File: \\SVHPLC\EE\chem\slc02.i\L2091902.b\102-4.D
Date : 20-SEP-2002 00:04
Client ID: 04Q30228
Sample Info: 220910204
Purge Volume: 920.0
Column phase: Vydac 201TP54

Instrument: slc02.i

Operator: MARTY
Column diameter: 4.60



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Report Date: 26-Sep-2002 16:45

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Data file : \\SVHPLC\EE\chem\slc02.i\L2091902.b\102-5.D
Lab Smp Id: 220910205 Client Smp ID: 05Q30228
Inj Date : 20-SEP-2002 00:39
Operator : MARTY Inst ID: slc02.i
Smp Info : 220910205
Misc Info :
Comment :
Method : \\Svhplc\ee\chem\slc02.i\L2091902.b\8310AE.m
Meth Date : 26-Sep-2002 16:43 amarty Quant Type: ESTD
Cal Date : 08-SEP-2002 18:40 Cal File: CAL7.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: lowcalwrl.sub
Target Version: 4.04 Sample Matrix: WATER
Processing Host: FORMS1

Concentration Formula: Amt * DF * 1/(Vo/1000)*Vt

Name	Value	Description
DF	1.000	Dilution Factor
Vo	930.000	Volume Extracted
Vt	1.000	Final Volume

RT	EXP RT	DLT RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/l)	TARGET RANGE	RATIO
8 Phenanthrene						CAS #: 85-01-8		
15.533	15.533	(0.000)	VWD1A	13445			80.00- 120.00	100.00(QM)
15.632	15.533	(0.099)	ADC1A	51516	0.13364	0.14	431.47- 647.21	383.16
10 Fluoranthene						CAS #: 206-44-0		
17.096	17.086	(0.010)	VWD1A	1220	0.07456	0.080		(M)
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.590	18.590	(0.000)	VWD1A	244304	16.9384	18.2	80.00- 120.00	100.00
18.684	18.590	(0.094)	ADC1A	10581310			3552.49-5328.73	4331.21

Data File: \\SVHPLC\EE\chem\slc02.i\L2091902.b\102-5.D
Report Date: 26-Sep-2002 16:45

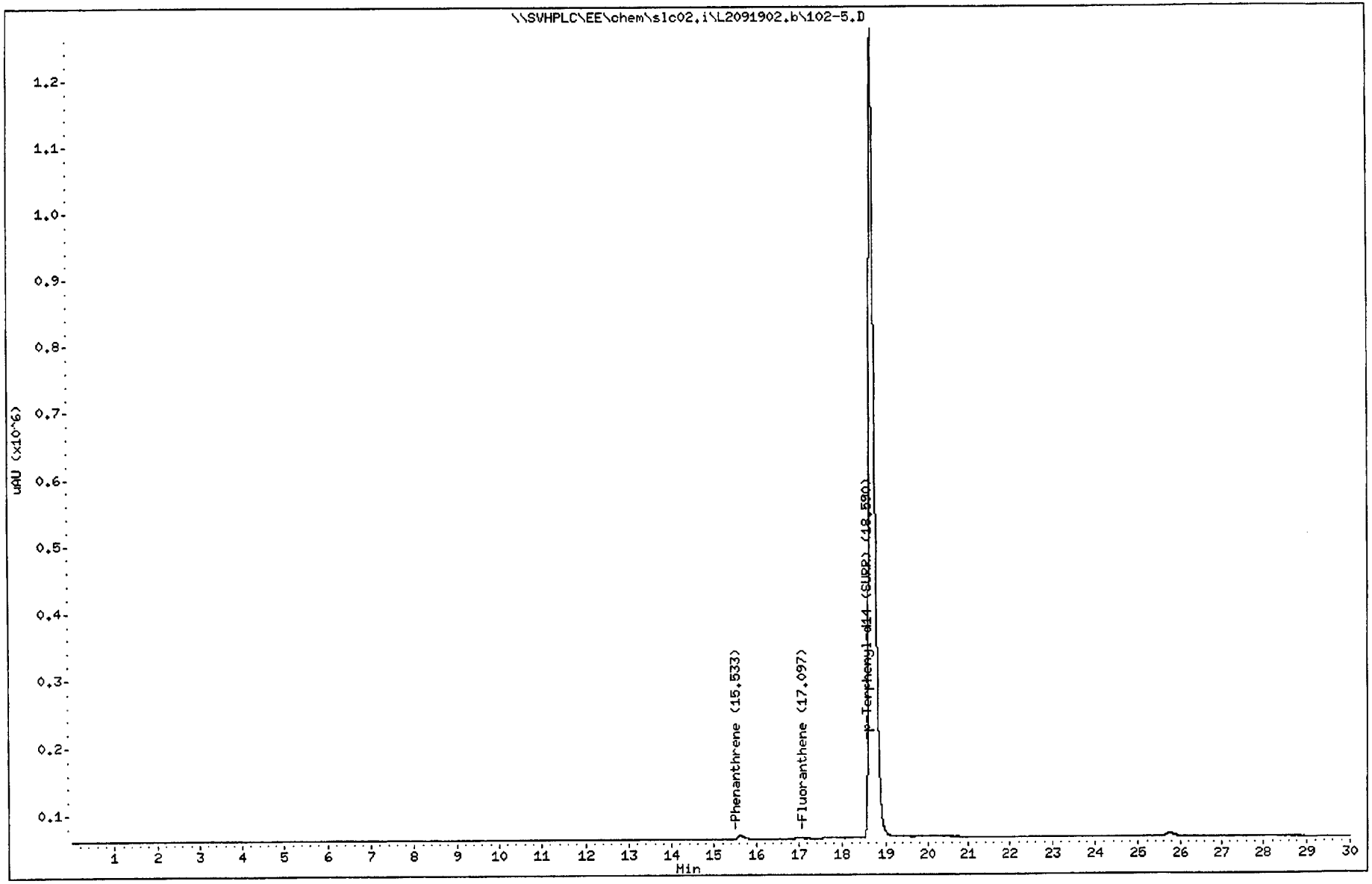
QC Flag Legend

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

Data File: \\SVHPLC\EE\chem\slc02.i\L2091902.b\102-5.D
Date : 20-SEP-2002 00:39
Client ID: 05Q30228
Sample Info: 220910205
Purge Volume: 930.0
Column phase: Vydac 201TP54

Instrument: slc02.i

Operator: MARTY
Column diameter: 4.60



Data File: \\SVHPLC\EE\chem\slc02.i\L2091902.b\102-6.D
Report Date: 26-Sep-2002 16:45

PEL Laboratories, Inc.

Data file : \\SVHPLC\EE\chem\slc02.i\L2091902.b\102-6.D
Lab Smp Id: 220910206 Client Smp ID: 06Q30228
Inj Date : 20-SEP-2002 01:14
Operator : MARTY Inst ID: slc02.i
Smp Info : 220910206
Misc Info :
Comment :
Method : \\Svhplc\ee\chem\slc02.i\L2091902.b\8310AE.m
Meth Date : 26-Sep-2002 16:43 amarty Quant Type: ESTD
Cal Date : 08-SEP-2002 18:40 Cal File: CAL7.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: lowcalwrl.sub
Target Version: 4.04 Sample Matrix: WATER
Processing Host: FORMS1

Concentration Formula: Amt * DF * 1/(Vo/1000)*Vt

Name	Value	Description
DF	1.000	Dilution Factor
Vo	900.000	Volume Extracted
Vt	1.000	Final Volume

RT	EXP RT	DLT RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/l)	TARGET RANGE	RATIO
8 Phenanthrene						CAS #: 85-01-8		
15.543	15.533	(0.010)	VWD1A	33702			80.00- 120.00	100.00
15.631	15.533	(0.098)	ADC1A	150846	0.39131	0.43	431.47- 647.21	447.59
10 Fluoranthene						CAS #: 206-44-0		
17.100	17.086	(0.014)	VWD1A	3135	0.19157	0.21		(M)
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.596	18.590	(0.006)	VWD1A	134645	9.33538	10.4	80.00- 120.00	100.00(Q)
18.689	18.590	(0.099)	ADC1A	10097883			3552.49-5328.73	7499.63

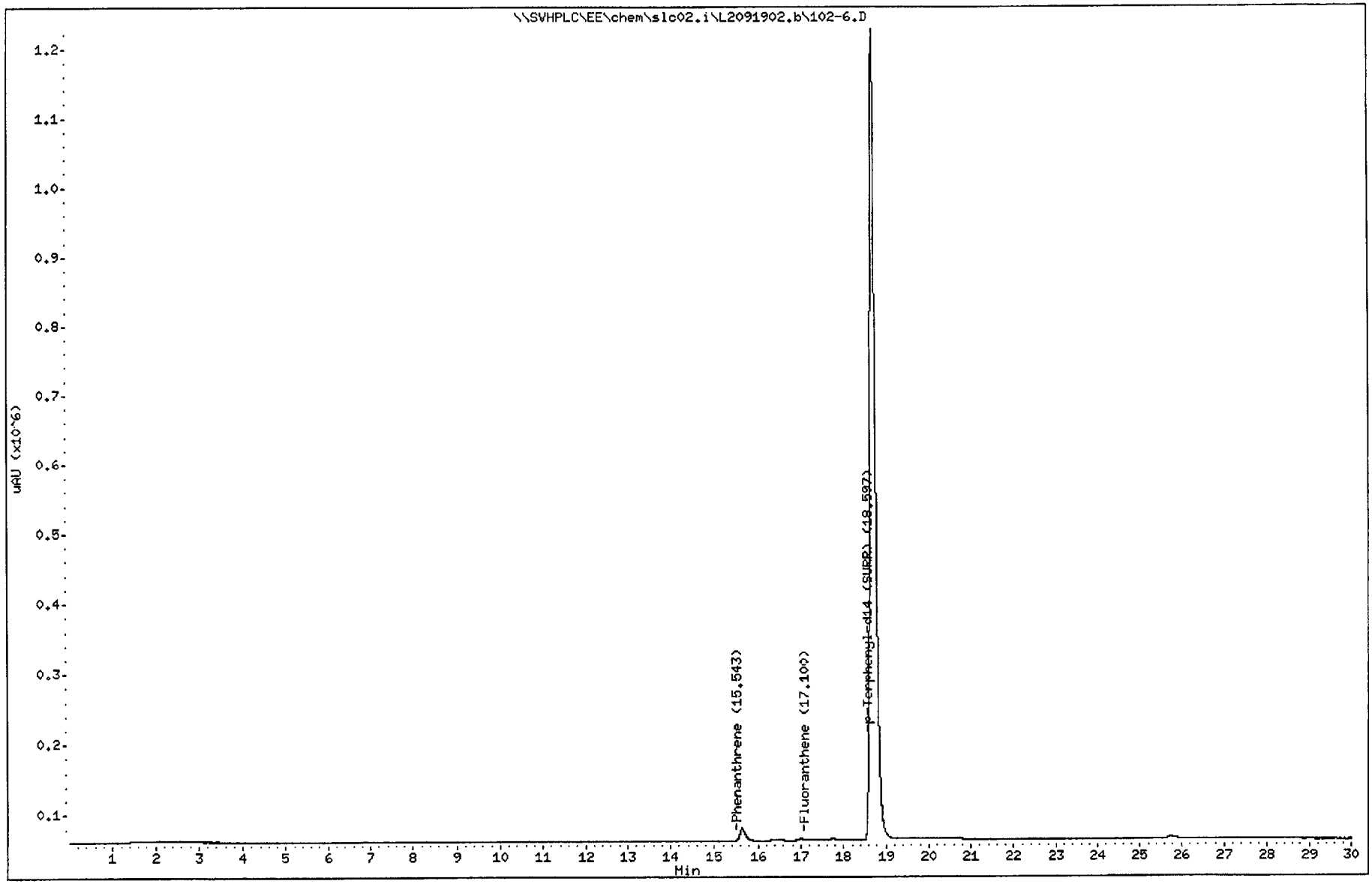
Data File: \\SVHPLC\EE\chem\slc02.i\L2091902.b\102-6.D
Report Date: 26-Sep-2002 16:45

QC Flag Legend

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

Data File: \\SVHPLC\EE\chem\slc02.i\L2091902.b\102-6.D
Date : 20-SEP-2002 01:14
Client ID: 06Q30228
Sample Info: 220910206
Purge Volume: 900.0
Column phase: Vydac 201TP54

Instrument: slc02.i
Operator: MARTY
Column diameter: 4.60



Data File: \\SVHPLC\EE\chem\slc02.i\L2091902.b\CCV2.D
Report Date: 26-Sep-2002 16:45

PEL Laboratories, Inc.

Data file : \\SVHPLC\EE\chem\slc02.i\L2091902.b\CCV2.D
Lab Smp Id: SV6163 Client Smp ID: CCV2
Inj Date : 20-SEP-2002 01:48
Operator : MARTY Inst ID: slc02.i
Smp Info : SV6163
Misc Info :
Comment :
Method : \\Svhplc\ee\chem\slc02.i\L2091902.b\8310AE.m
Meth Date : 26-Sep-2002 16:43 amarty Quant Type: ESTD
Cal Date : 08-SEP-2002 18:40 Cal File: CAL7.D
Als bottle: 21 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: lowcalwrl.sub
Target Version: 4.04 Sample Matrix: WATER
Processing Host: FORMS1

Concentration Formula: Amt * DF * 1/(Vo/1000)*Vt

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume Extracted
Vt	1.000	Final Volume

RT	EXP RT	DLT RT	SIGNAL	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO
2 Naphthalene						CAS #: 91-20-3		
11.853	11.853	(0.000)	VWD1A	82554	15.0000	15.4	80.00- 120.00	100.00
11.944	11.853	(0.091)	ADC1A	178756			173.23- 259.84	216.53
3 Acenaphthylene						CAS #: 208-96-8		
13.076	13.076	(0.000)	VWD1A	57576	15.0000	14.3		
4 1-Methyl naphthalene						CAS #: 90-12-0		
13.700	13.700	(0.000)	VWD1A	51327			80.00- 120.00	100.00
13.790	13.700	(0.090)	ADC1A	232324	15.0000	15.3	362.11- 543.16	452.63
5 2-Methyl naphthalene						CAS #: 91-57-6		
14.036	14.036	(0.000)	VWD1A	65657	15.0000	14.7	80.00- 120.00	100.00
14.125	14.036	(0.089)	ADC1A	303981			370.39- 555.58	462.98

Data File: \\SVHPLC\EE\chem\slc02.i\L2091902.b\CCV2.D
Report Date: 26-Sep-2002 16:45

RT	EXP RT	DLT RT	SIGNAL	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO
6 Acenaphthene						CAS #: 83-32-9		
14.370	14.370	(0.000)	VWD1A	29440			80.00- 120.00	100.00
14.460	14.370	(0.090)	ADC1A	291396	15.0000	14.1	791.84-1187.76	989.78
7 Fluorene						CAS #: 86-73-7		
14.723	14.723	(0.000)	VWD1A	367062	15.0000	14.9		
8 Phenanthrene						CAS #: 85-01-8		
15.533	15.533	(0.000)	VWD1A	1039817			80.00- 120.00	100.00
15.622	15.533	(0.089)	ADC1A	5608168	15.0000	14.5	431.47- 647.21	539.34
9 Anthracene						CAS #: 120-12-7		
16.256	16.256	(0.000)	VWD1A	2271719	15.0000	15.0	80.00- 120.00	100.00
16.354	16.256	(0.098)	ADC1A	8167449			287.62- 431.43	359.53
10 Fluoranthene						CAS #: 206-44-0		
17.086	17.086	(0.000)	VWD1A	242185	15.0000	14.8		
11 Pyrene						CAS #: 129-00-0		
17.630	17.630	(0.000)	VWD1A	214763	15.0000	14.8	80.00- 120.00	100.00
17.722	17.630	(0.092)	ADC1A	9550534			3557.61-5336.41	4447.00
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.590	18.590	(0.000)	VWD1A	222287	15.0000	15.4	80.00- 120.00	100.00(M)
18.684	18.590	(0.094)	ADC1A	9870907			3552.49-5328.73	4440.61
13 Benzo(a)Anthracene						CAS #: 56-55-3		
19.396	19.396	(0.000)	VWD1A	561878	15.0000	14.7	80.00- 120.00	100.00
19.492	19.396	(0.096)	ADC1A	7213397			1027.04-1540.56	1283.80
14 Chrysene						CAS #: 218-01-9		
19.786	19.786	(0.000)	VWD1A	807611	15.0000	15.5	80.00- 120.00	100.00
19.887	19.786	(0.101)	ADC1A	19025461			1884.62-2826.92	2355.77
15 Benzo(b)Fluoranthene						CAS #: 205-99-2		
21.186	21.186	(0.000)	VWD1A	620783	15.0000	14.6	80.00- 120.00	100.00(M)
21.285	21.186	(0.099)	ADC1A	612181			78.89- 118.34	98.61
16 Benzo(k)Fluoranthene						CAS #: 207-08-9		
21.796	21.796	(0.000)	VWD1A	475802	15.0000	14.6	80.00- 120.00	100.00
21.899	21.796	(0.103)	ADC1A	766642			128.90- 193.35	161.13
17 Benzo(a)pyrene						CAS #: 50-32-8		
22.393	22.393	(0.000)	VWD1A	527774			80.00- 120.00	100.00
22.495	22.393	(0.102)	ADC1A	2323138	15.0000	13.8	352.14- 528.21	440.18

Data File: \\SVHPLC\EE\chem\slc02.i\L2091902.b\CCV2.D
Report Date: 26-Sep-2002 16:45

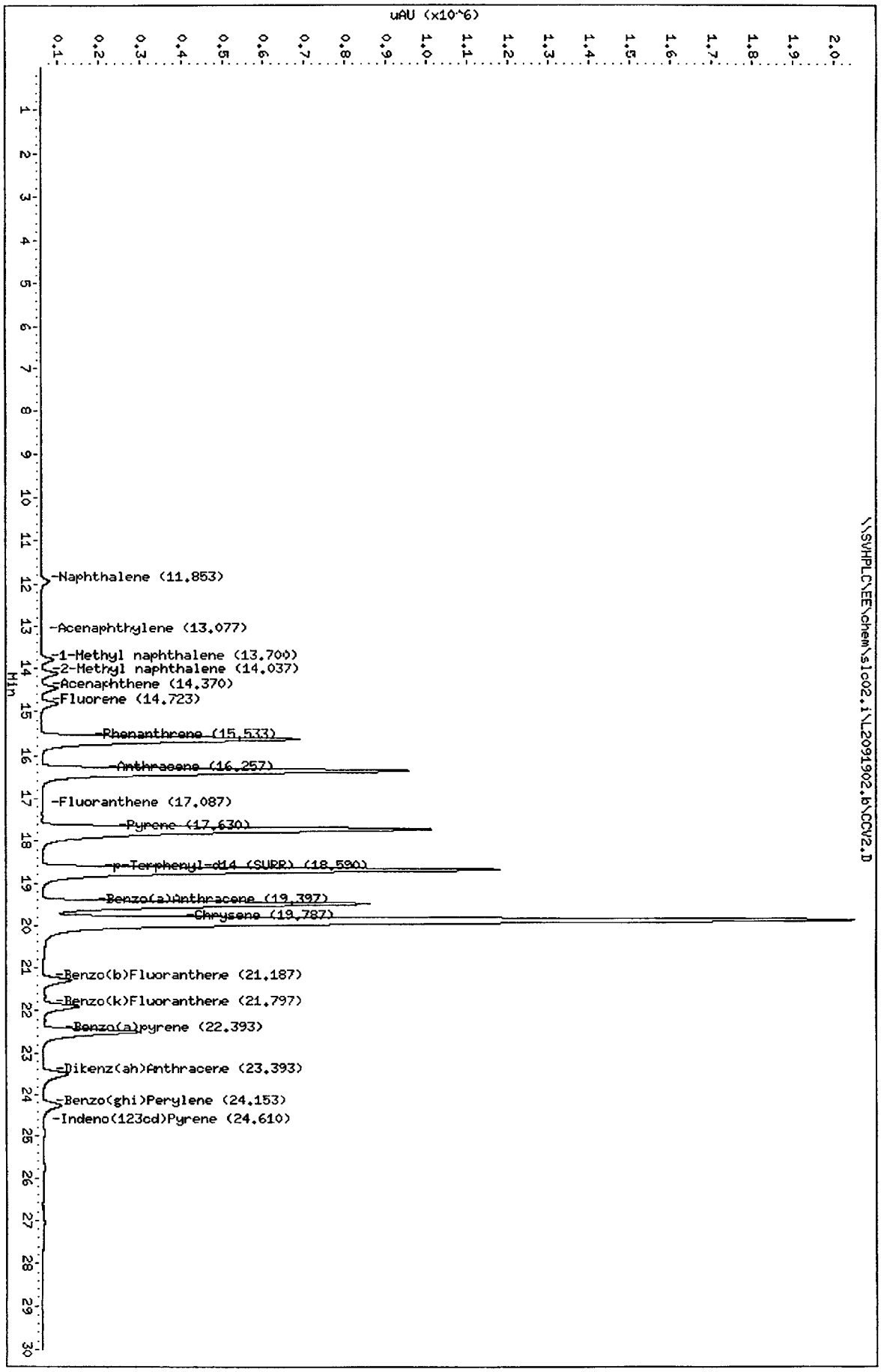
RT	EXP RT	DLT RT	SIGNAL	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO
18 Dibenz(ah)Anthracene						CAS #: 53-70-3		
23.393	23.393	(0.000)	VWD1A	114852	15.0000	13.5	80.00- 120.00	100.00
23.497	23.393	(0.104)	ADC1A	702437			489.28- 733.92	611.60
19 Benzo(ghi)Perylene						CAS #: 191-24-2		
24.153	24.153	(0.000)	VWD1A	182110	15.0000	13.6	80.00- 120.00	100.00(M)
24.255	24.153	(0.102)	ADC1A	498187			218.85- 328.28	273.56
20 Indeno(123cd)Pyrene						CAS #: 193-39-5		
24.610	24.610	(0.000)	VWD1A	470690	15.0000	13.1		

QC Flag Legend

M - Compound response manually integrated.

Data File: \\SVHPLC\EE\chem\slc02.i\L2091902.b\CCV2.D
Date : 20-SEP-2002 01:48
Client ID: CCV2
Sample Info: SV6163
Purge Volume: 1000.0
Column phase: Vydac 201TP54

Instrument: slc02.i
Operator: MARTY
Column diameter: 4.60



Data File: \\SVHPLC\EE\chem\slc02.i\L2091902.b\102-7.D
Report Date: 26-Sep-2002 16:45

PEL Laboratories, Inc.

Data file : \\SVHPLC\EE\chem\slc02.i\L2091902.b\102-7.D
Lab Smp Id: 220910207 Client Smp ID: 07Q30228
Inj Date : 20-SEP-2002 02:23
Operator : MARTY Inst ID: slc02.i
Smp Info : 220910207
Misc Info :
Comment :
Method : \\Svhplc\ee\chem\slc02.i\L2091902.b\8310AE.m
Meth Date : 26-Sep-2002 16:43 amarty Quant Type: ESTD
Cal Date : 08-SEP-2002 18:40 Cal File: CAL7.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: lowcalwrl.sub
Target Version: 4.04 Sample Matrix: WATER
Processing Host: FORMS1

Concentration Formula: Amt * DF * 1/(Vo/1000)*Vt

Name	Value	Description
DF	1.000	Dilution Factor
Vo	960.000	Volume Extracted
Vt	1.000	Final Volume

RT	EXP RT	DLT RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/l)	TARGET RANGE	RATIO
8 Phenanthrene						CAS #: 85-01-8		
15.536	15.533	(0.003)	VWD1A	12023			80.00- 120.00	100.00(QM)
15.622	15.533	(0.089)	ADC1A	47553	0.12336	0.13	431.47- 647.21	395.49
10 Fluoranthene						CAS #: 206-44-0		
17.106	17.086	(0.020)	VWD1A	1404	0.08578	0.089		(M)
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.590	18.590	(0.000)	VWD1A	243910	16.9111	17.6	80.00- 120.00	100.00
18.685	18.590	(0.095)	ADC1A	10509671			3552.49-5328.73	4308.83

Data File: \\SVHPLC\EE\chem\slc02.i\L2091902.b\102-7.D
Report Date: 26-Sep-2002 16:45

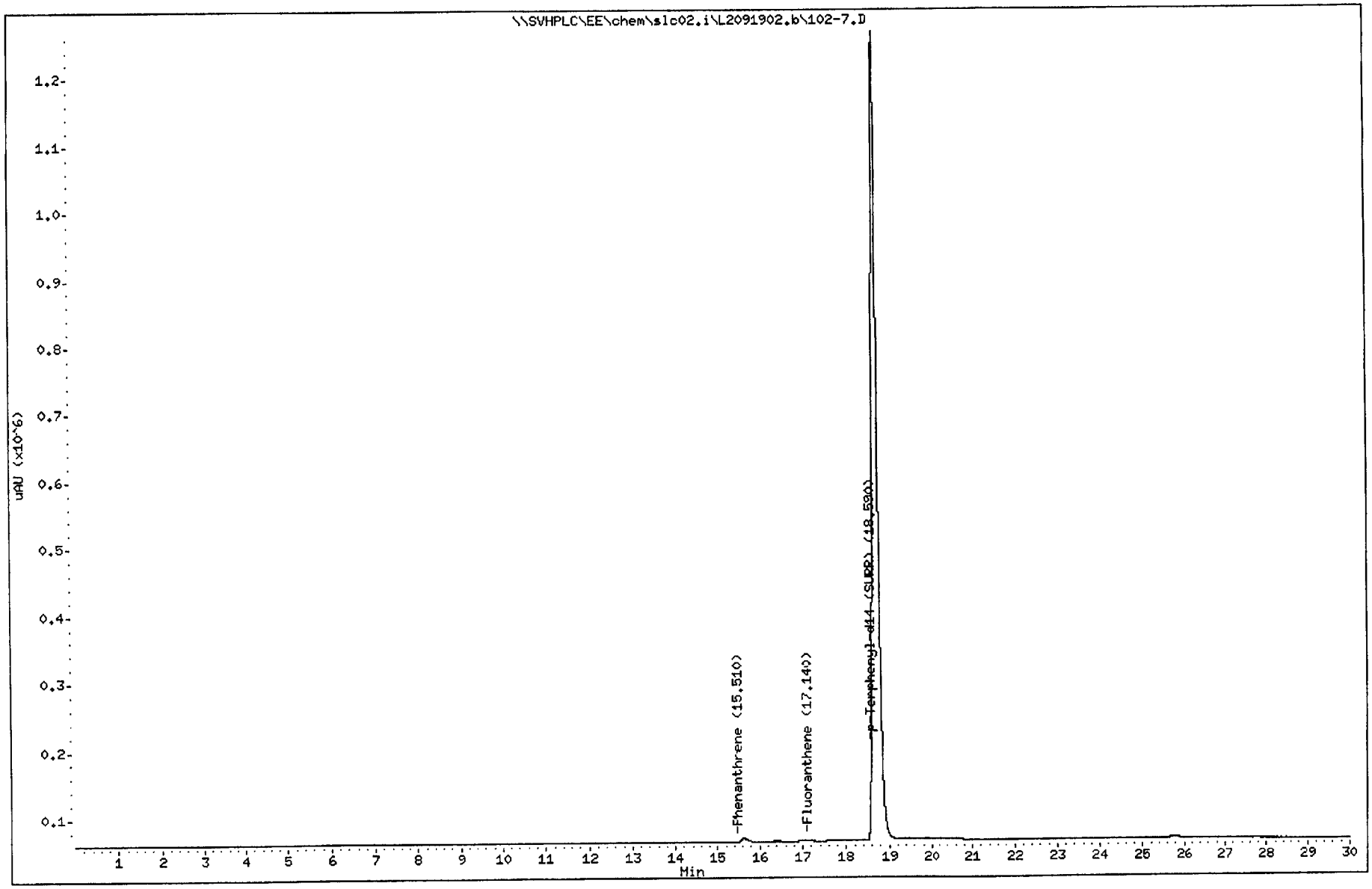
QC Flag Legend

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

Data File: \\SVHPLC\EE\chem\slc02.i\L2091902.b\102-7.D
Date : 20-SEP-2002 02:23
Client ID: 07Q30228
Sample Info: 220910207
Purge Volume: 960.0
Column phase: Vydac 201TP54

Instrument: slc02.i

Operator: MARTY
Column diameter: 4.60



Data File: \\SVHPLC\EE\chem\slc02.i\L2091902.b\102-8.D
Report Date: 26-Sep-2002 16:45

PEL Laboratories, Inc.

Data file : \\SVHPLC\EE\chem\slc02.i\L2091902.b\102-8.D
Lab Smp Id: 220910208 Client Smp ID: 10Q30228
Inj Date : 20-SEP-2002 02:57
Operator : MARTY Inst ID: slc02.i
Smp Info : 220910208
Misc Info :
Comment :
Method : \\Svhplc\ee\chem\slc02.i\L2091902.b\8310AE.m
Meth Date : 26-Sep-2002 16:43 amarty Quant Type: ESTD
Cal Date : 08-SEP-2002 18:40 Cal File: CAL7.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: lowcalwrl.sub
Target Version: 4.04 Sample Matrix: WATER
Processing Host: FORMS1

Concentration Formula: Amt * DF * 1/(Vo/1000)*Vt

Name	Value	Description
DF	1.000	Dilution Factor
Vo	950.000	Volume Extracted
Vt	1.000	Final Volume

RT	EXP RT	DLT RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/l)	TARGET RANGE	RATIO
5 2-Methyl naphthalene						CAS #: 91-57-6		
14.046	14.036	(0.010)	VWD1A	976	0.21835	0.23	80.00- 120.00	100.00(QM)
14.142	14.036	(0.106)	ADC1A	2827			370.39- 555.58	289.60
6 Acenaphthene						CAS #: 83-32-9		
14.703	14.370	(0.333)	VWD1A	1550			80.00- 120.00	100.00(QM)
14.430	14.370	(0.060)	ADC1A	0			791.84-1187.76	0.00
8 Phenanthrene						CAS #: 85-01-8		
15.513	15.533	(-0.020)	VWD1A	13138			80.00- 120.00	100.00(QM)
15.615	15.533	(0.082)	ADC1A	51819	0.13443	0.14	431.47- 647.21	394.42
10 Fluoranthene						CAS #: 206-44-0		
17.016	17.086	(-0.070)	VWD1A	1888	0.11535	0.12		(M)

Data File: \\SVHPLC\EE\chem\slc02.i\L2091902.b\102-8.D
Report Date: 26-Sep-2002 16:45

RT	EXP RT	DLT RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/l)	TARGET RANGE	RATIO
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.576	18.590	(-0.014)	VWD1A	239721	16.6206	17.5	80.00- 120.00	100.00(M)
18.672	18.590	(0.082)	ADC1A	10579088			3552.49-5328.73	4413.08

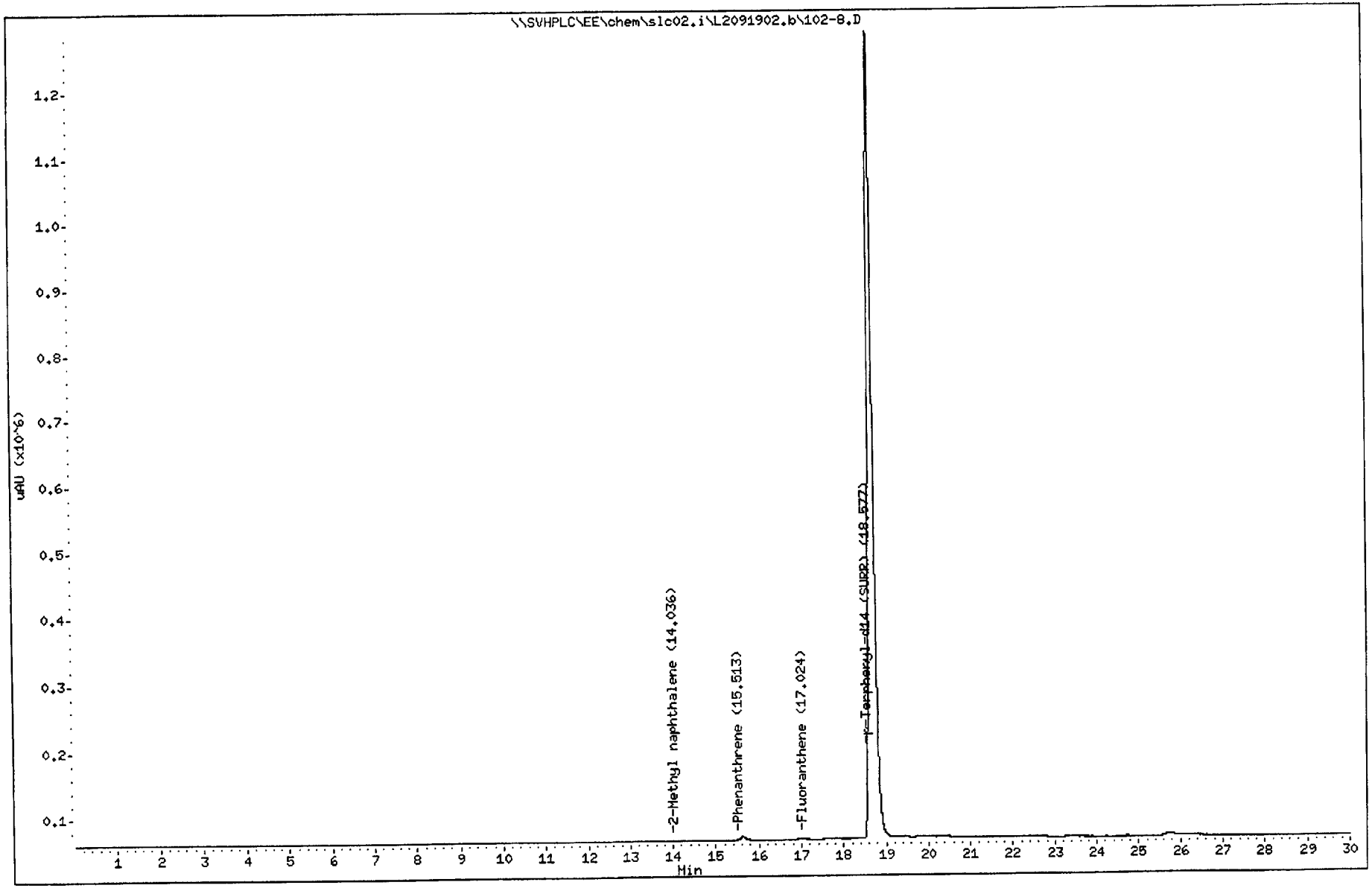
QC Flag Legend

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

Data File: \\SVHPLC\EE\chem\slc02.i\L2091902.b\102-8.D
Date : 20-SEP-2002 02:57
Client ID: 10Q30228
Sample Info: 220910208
Purge Volume: 950.0
Column phase: Vydac 201TP54

Instrument: slc02.i

Operator: MARTY
Column diameter: 4.60



Data File: \\SVHPLC\EE\chem\slc02.i\L2091902.b\102-9.D
Report Date: 26-Sep-2002 16:45

PEL Laboratories, Inc.

Data file : \\SVHPLC\EE\chem\slc02.i\L2091902.b\102-9.D
Lab Smp Id: 220910209 Client Smp ID: 11Q30228
Inj Date : 20-SEP-2002 03:32
Operator : MARTY Inst ID: slc02.i
Smp Info : 220910209
Misc Info :
Comment :
Method : \\Svhplc\ee\chem\slc02.i\L2091902.b\8310AE.m
Meth Date : 26-Sep-2002 16:43 amarty Quant Type: ESTD
Cal Date : 08-SEP-2002 18:40 Cal File: CAL7.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: lowcalwrl.sub
Target Version: 4.04 Sample Matrix: WATER
Processing Host: FORMS1

Concentration Formula: Amt * DF * 1/(Vo/1000)*Vt

Name	Value	Description
DF	1.000	Dilution Factor
Vo	945.000	Volume Extracted
Vt	1.000	Final Volume

RT	EXP RT	DLT RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/l)	TARGET RANGE	RATIO
3 Acenaphthylene						CAS #: 208-96-8		
13.083	13.076	(0.007)	VWD1A	1301	0.32418	0.34		
8 Phenanthrene						CAS #: 85-01-8		
15.506	15.533	(-0.027)	VWD1A	12937			80.00- 120.00	100.00(QM)
15.594	15.533	(0.061)	ADC1A	47671	0.12367	0.13	431.47- 647.21	368.47
10 Fluoranthene						CAS #: 206-44-0		
17.083	17.086	(-0.003)	VWD1A	2949	0.18017	0.19		
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.576	18.590	(-0.014)	VWD1A	225551	15.6382	16.5	80.00- 120.00	100.00
18.671	18.590	(0.081)	ADC1A	9729418			3552.49-5328.73	4313.62

Data File: \\SVHPLC\EE\chem\slc02.i\L2091902.b\102-9.D
Report Date: 26-Sep-2002 16:45

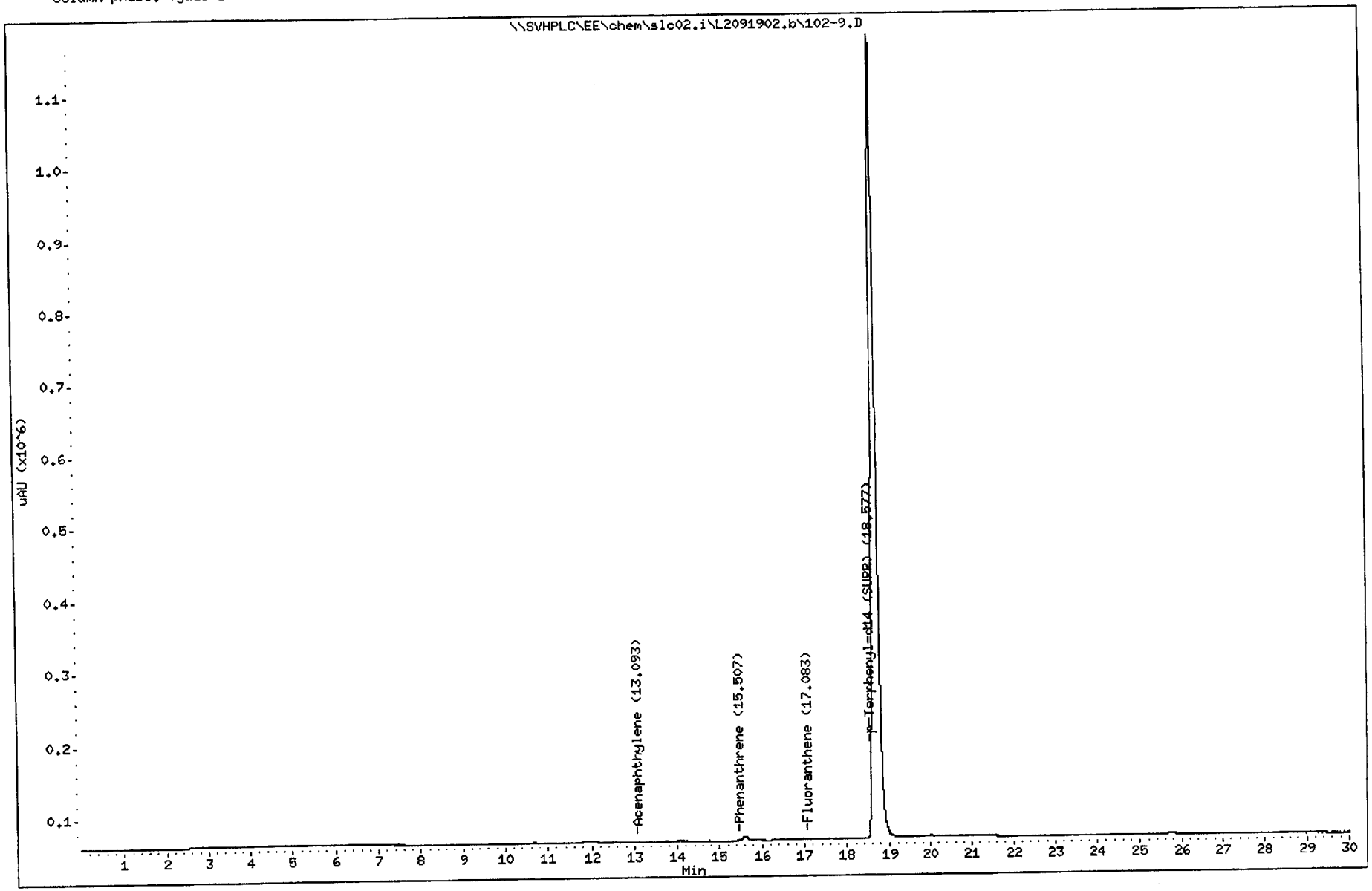
QC Flag Legend

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

Data File: \\SVHPLC\EE\chem\slc02.i\L2091902.b\102-9.D
Date : 20-SEP-2002 03:32
Client ID: 11Q30228
Sample Info: 220910209
Purge Volume: 945.0
Column phase: Vydac 201TP54

Instrument: slc02.i

Operator: MARTY
Column diameter: 4.60



Data File: \\SVHPLC\EE\chem\slc02.i\L2091902.b\102-12.D
Report Date: 26-Sep-2002 16:44

PEL Laboratories, Inc.

Data file : \\SVHPLC\EE\chem\slc02.i\L2091902.b\102-12.D
Lab Smp Id: 220910212 Client Smp ID: DUPQ30228
Inj Date : 20-SEP-2002 04:07
Operator : MARTY Inst ID: slc02.i
Smp Info : 220910212
Misc Info :
Comment :
Method : \\Svhplc\ee\chem\slc02.i\L2091902.b\8310AE.m
Meth Date : 26-Sep-2002 16:43 amarty Quant Type: ESTD
Cal Date : 08-SEP-2002 18:40 Cal File: CAL7.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: lowcalwrl.sub
Target Version: 4.04 Sample Matrix: WATER
Processing Host: FORMS1

Concentration Formula: Amt * DF * 1/(Vo/1000)*Vt

Name	Value	Description
DF	1.000	Dilution Factor
Vo	935.000	Volume Extracted
Vt	1.000	Final Volume

RT	EXP RT	DLT RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/l)	TARGET RANGE	RATIO	
8 Phenanthrene						CAS #: 85-01-8			
15.500	15.533	(-0.033)	VWD1A	14012			80.00- 120.00	100.00	(QM)
15.602	15.533	(0.069)	ADC1A	52919	0.13728	0.15	431.47- 647.21	377.66	
10 Fluoranthene						CAS #: 206-44-0			
17.070	17.086	(-0.016)	VWD1A	2081	0.12714	0.14			(M)
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0			
18.580	18.590	(-0.010)	VWD1A	241421	16.7385	17.9	80.00- 120.00	100.00	(M)
18.677	18.590	(0.087)	ADC1A	10614793			3552.49-5328.73	4396.80	

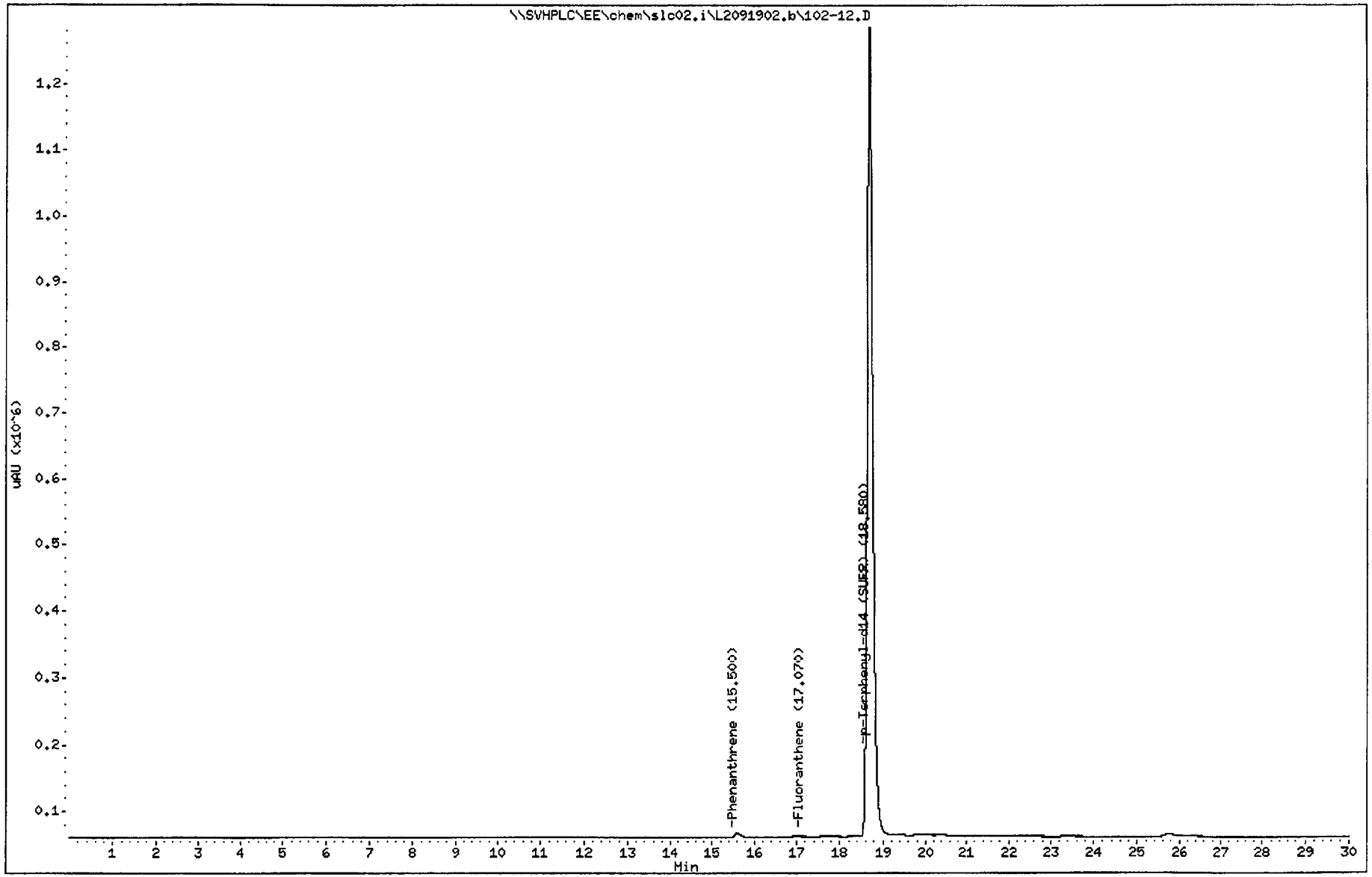
Data File: \\SVHPLC\EE\chem\slc02.i\L2091902.b\102-12.D
Report Date: 26-Sep-2002 16:44

QC Flag Legend

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

Data File: \\SVHPLC\EE\chem\slc02.i\L2091902.b\102-12.D
Date : 20-SEP-2002 04:07
Client ID: DUPQ30228
Sample Info: 220910212
Purge Volume: 935.0
Column phase: Vydac 201TP54

Instrument: slc02.i
Operator: MARTY
Column diameter: 4.60



Data File: \\SVHPLC\EE\chem\slc02.i\L2091902.b\102-13.D
Report Date: 26-Sep-2002 16:44

PEL Laboratories, Inc.

Data file : \\SVHPLC\EE\chem\slc02.i\L2091902.b\102-13.D
Lab Smp Id: 220910213 Client Smp ID: EQBQ30228
Inj Date : 20-SEP-2002 04:41
Operator : MARTY Inst ID: slc02.i
Smp Info : 220910213
Misc Info :
Comment :
Method : \\Svhplc\ee\chem\slc02.i\L2091902.b\8310AE.m
Meth Date : 26-Sep-2002 16:43 amarty Quant Type: ESTD
Cal Date : 08-SEP-2002 18:40 Cal File: CAL7.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: lowcalwrl.sub
Target Version: 4.04 Sample Matrix: WATER
Processing Host: FORMS1

Concentration Formula: Amt * DF * 1/(Vo/1000)*Vt

Name	Value	Description
DF	1.000	Dilution Factor
Vo	940.000	Volume Extracted
Vt	1.000	Final Volume

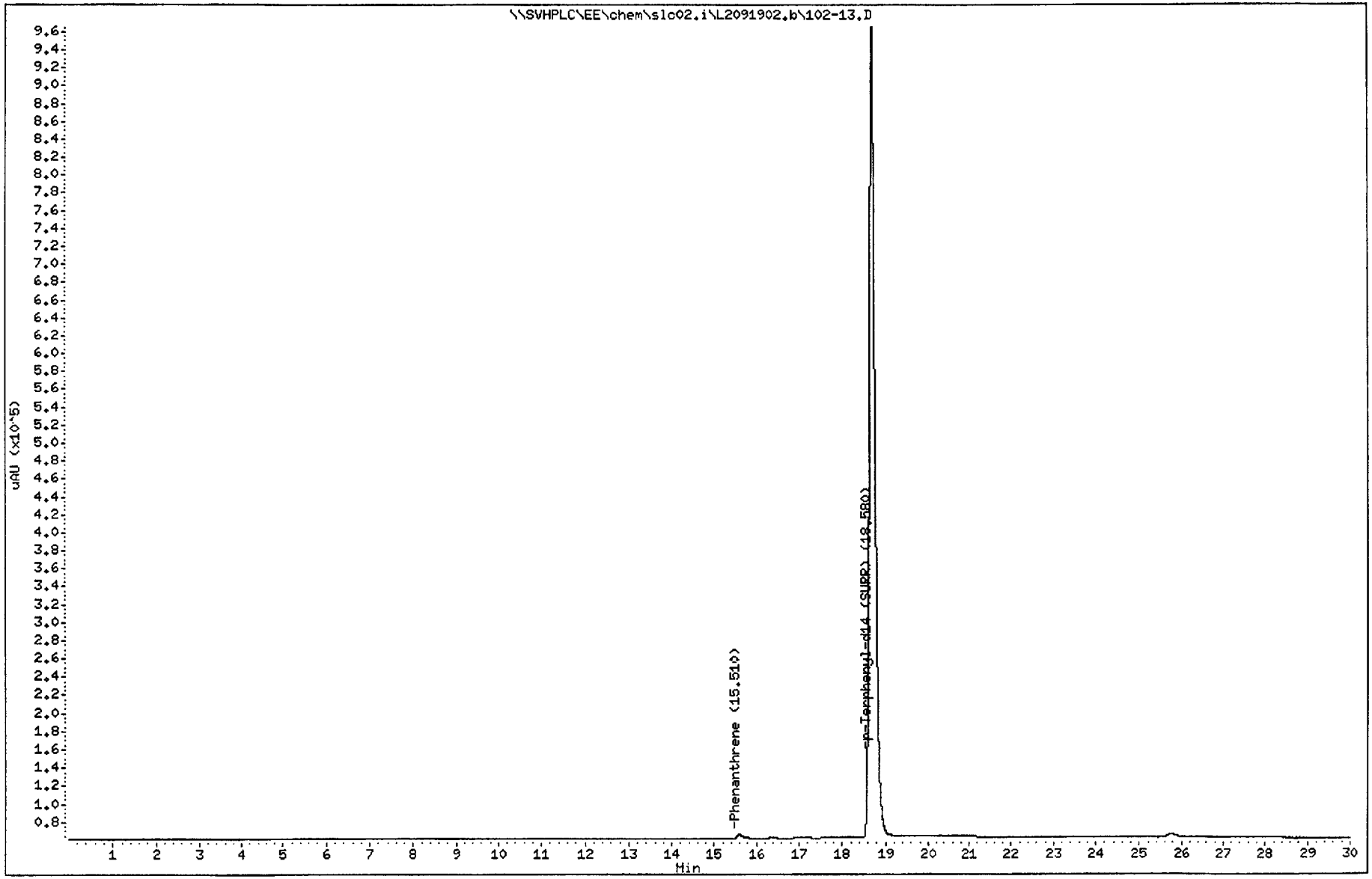
RT	EXP RT	DLT RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/l)	TARGET RANGE	RATIO
8 Phenanthrene							CAS #: 85-01-8	
15.510	15.533	(-0.023)	VWD1A	10143			80.00- 120.00	100.00(QM)
15.604	15.533	(0.071)	ADC1A	43179	0.11201	0.12	431.47- 647.21	425.69
$ 12 p-Terphenyl-d14 (SURR)							CAS #: 1718-51-0	
18.580	18.590	(-0.010)	VWD1A	180619	12.5229	13.3	80.00- 120.00	100.00(M)
18.677	18.590	(0.087)	ADC1A	7918351			3552.49-5328.73	4384.00

QC Flag Legend

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

Data File: \\SVHPLC\EE\chem\slc02.i\L2091902.b\102-13.D
Date : 20-SEP-2002 04:41
Client ID: EQBQ30228
Sample Info: 220910213
Purge Volume: 940.0
Column phase: Vydac 201TP54

Instrument: slc02.i
Operator: MARTY
Column diameter: 4.60



Data File: \\SVHPLC\EE\chem\slc02.i\L2091902.b\CCV3.D
Report Date: 26-Sep-2002 16:45

PEL Laboratories, Inc.

Data file : \\SVHPLC\EE\chem\slc02.i\L2091902.b\CCV3.D
Lab Smp Id: SV6163 Client Smp ID: CCV3
Inj Date : 20-SEP-2002 05:16
Operator : MARTY Inst ID: slc02.i
Smp Info : SV6163
Misc Info :
Comment :
Method : \\Svhplc\ee\chem\slc02.i\L2091902.b\8310AE.m
Meth Date : 26-Sep-2002 16:43 amarty Quant Type: ESTD
Cal Date : 08-SEP-2002 18:40 Cal File: CAL7.D
Als bottle: 21 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: lowcalwrl.sub
Target Version: 4.04 Sample Matrix: WATER
Processing Host: FORMS1

Concentration Formula: Amt * DF * 1/(Vo/1000)*Vt

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume Extracted
Vt	1.000	Final Volume

AMOUNTS

RT	EXP RT	DLT RT	SIGNAL	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
2 Naphthalene						CAS #: 91-20-3		
11.790	11.853	(-0.063)	VWD1A	81617	15.0000	15.2	80.00- 120.00	100.00
11.884	11.853	(0.031)	ADC1A	176492			173.23- 259.84	216.24
3 Acenaphthylene						CAS #: 208-96-8		
13.026	13.076	(-0.050)	VWD1A	57497	15.0000	14.3		
4 1-Methyl naphthalene						CAS #: 90-12-0		
13.660	13.700	(-0.040)	VWD1A	51357			80.00- 120.00	100.00
13.752	13.700	(0.052)	ADC1A	233198	15.0000	15.4	362.11- 543.16	454.07
5 2-Methyl naphthalene						CAS #: 91-57-6		
14.000	14.036	(-0.036)	VWD1A	65855	15.0000	14.7	80.00- 120.00	100.00
14.094	14.036	(0.058)	ADC1A	304992			370.39- 555.58	463.13

Data File: \\SVHPLC\EE\chem\slc02.i\L2091902.b\CCV3.D
Report Date: 26-Sep-2002 16:45

RT	EXP RT	DLT RT	SIGNAL	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO
6 Acenaphthene							CAS #: 83-32-9	
14.336	14.370	(-0.034)	VWD1A	29028			80.00- 120.00	100.00
14.430	14.370	(0.060)	ADC1A	291132	15.0000	14.0	791.84-1187.76	1002.94
7 Fluorene							CAS #: 86-73-7	
14.696	14.723	(-0.027)	VWD1A	365908	15.0000	14.9		
8 Phenanthrene							CAS #: 85-01-8	
15.510	15.533	(-0.023)	VWD1A	1031898			80.00- 120.00	100.00
15.605	15.533	(0.072)	ADC1A	5587691	15.0000	14.5	431.47- 647.21	541.50
9 Anthracene							CAS #: 120-12-7	
16.236	16.256	(-0.020)	VWD1A	2264607	15.0000	15.0	80.00- 120.00	100.00
16.332	16.256	(0.076)	ADC1A	8149588			287.62- 431.43	359.87
10 Fluoranthene							CAS #: 206-44-0	
17.073	17.086	(-0.013)	VWD1A	241800	15.0000	14.8		
11 Pyrene							CAS #: 129-00-0	
17.613	17.630	(-0.017)	VWD1A	213137	15.0000	14.7	80.00- 120.00	100.00
17.712	17.630	(0.082)	ADC1A	9431625			3557.61-5336.41	4425.15
$ 12 p-Terphenyl-d14 (SURR)							CAS #: 1718-51-0	
18.580	18.590	(-0.010)	VWD1A	214688	15.0000	14.9	80.00- 120.00	100.00(M)
18.677	18.590	(0.087)	ADC1A	9823387			3552.49-5328.73	4575.66
13 Benzo(a)Anthracene							CAS #: 56-55-3	
19.390	19.396	(-0.006)	VWD1A	562158	15.0000	14.7	80.00- 120.00	100.00
19.487	19.396	(0.091)	ADC1A	7211986			1027.04-1540.56	1282.91
14 Chrysene							CAS #: 218-01-9	
19.776	19.786	(-0.010)	VWD1A	811464	15.0000	15.6	80.00- 120.00	100.00
19.880	19.786	(0.094)	ADC1A	19206570			1884.62-2826.92	2366.90
15 Benzo(b)Fluoranthene							CAS #: 205-99-2	
21.180	21.186	(-0.006)	VWD1A	619093	15.0000	14.6	80.00- 120.00	100.00
21.284	21.186	(0.098)	ADC1A	613033			78.89- 118.34	99.02
16 Benzo(k)Fluoranthene							CAS #: 207-08-9	
21.790	21.796	(-0.006)	VWD1A	475474	15.0000	14.6	80.00- 120.00	100.00
21.892	21.796	(0.096)	ADC1A	744315			128.90- 193.35	156.54
17 Benzo(a)pyrene							CAS #: 50-32-8	
22.386	22.393	(-0.007)	VWD1A	527194			80.00- 120.00	100.00
22.492	22.393	(0.099)	ADC1A	2262022	15.0000	13.5	352.14- 528.21	429.07

Data File: \\SVHPLC\EE\chem\slc02.i\L2091902.b\CCV3.D
Report Date: 26-Sep-2002 16:45

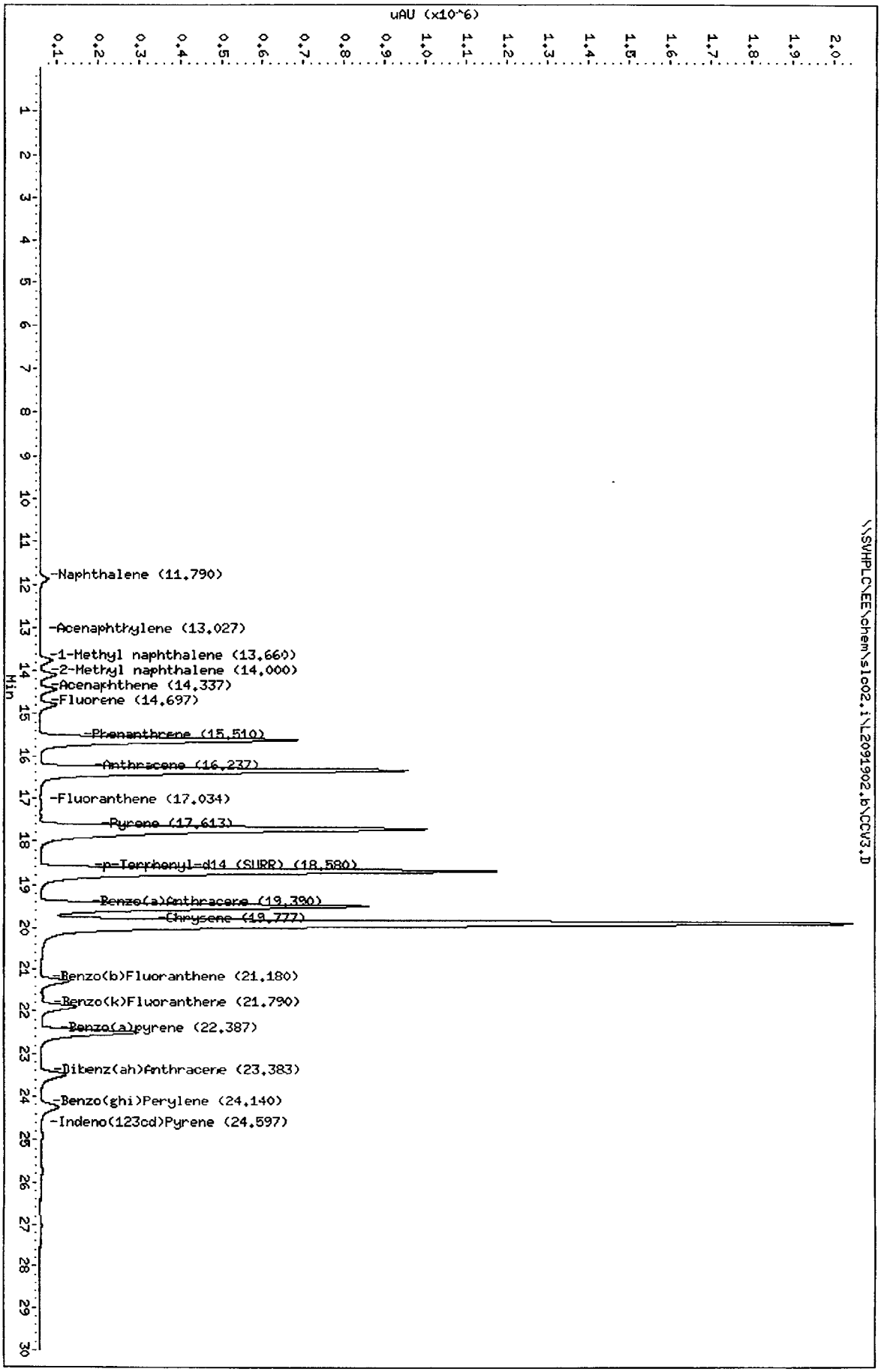
RT	EXP RT	DLT RT	SIGNAL	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	
18 Dibenz(ah)Anthracene						CAS #: 53-70-3			
23.383	23.393	(-0.010)	VWD1A	114898	15.0000	13.5	80.00- 120.00	100.00	(M)
23.490	23.393	(0.097)	ADC1A	693908			489.28- 733.92	603.93	
19 Benzo(ghi)Perylene						CAS #: 191-24-2			
24.140	24.153	(-0.013)	VWD1A	180490	15.0000	13.4	80.00- 120.00	100.00	
24.247	24.153	(0.094)	ADC1A	487126			218.85- 328.28	269.89	
20 Indeno(123cd)Pyrene						CAS #: 193-39-5			
24.596	24.610	(-0.014)	VWD1A	536884	15.0000	14.9			(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\SVHPLC\EE\chem\slc02.i\L2091902.b\CCV3.D
Date : 20-SEP-2002 05:16
Client ID: CCV3
Sample Info: SV6163
Purge Volume: 1000.0
Column phase: Vydac 201TP54

Instrument: slc02.i
Operator: HARTY
Column diameter: 4.60



2209-102
Raw Data
GC FL-PRO Organics

METHOD VIAL F2091602 9-16-02 TS

FL PRO WJS	96	DCM		
	1	SV6495	CAL 7	GOOD
	2	SV6496	CAL 6	
	100	SV6497	CAL 5	
	3	SV6498	CAL 4	
	4	SV6499	CAL 3	
	5	SV6500	CAL 2	
	6	SV6501	CAL 1	
	7	SV6502	X SER CCV	

F2091702 9/17/02 TS

FL PRO WJS	96	DCM		
	99	SV6515	SER CCV	GOOD

TS 9/17/02

Organic Standards Log

OS #	Date prpd.	By	Description	Origin-Lot No. / Manufacturer	Date stock rec'd / Expiration Date	Diluent-Lot No.	Amount for Dil.	Final Vol.	Final Conc.	Discarded
SV6495	9/16/02	TS	FL PRO CAL 7	Lot: SV6459F (GA) SV52780 (C-39) SV6179A (TPH) Man:	Rec'd: Exp: 3/16/03	~~25ul~~ TS 9/16/02 DCM CF780 B & J	25ul 50ul 200ul	1 ML	ug/mL 400 ~~PPM~~ TS	
SV6496			FL PRO CAL 6	Lot: Man:	Rec'd: Exp:		25ul 50ul 150ul		300ug/mL	
SV6497			FL PRO CAL 5	Lot: Man:	Rec'd: Exp:		25ul 50ul 75ul		150ug/mL	
SV6498			FL PRO CAL 4	Lot: Man:	Rec'd: Exp:		25ul 50ul 50ul		100ug/mL	
SV6499			FL PRO CAL 3	Lot: Man:	Rec'd: Exp:		25ul 50ul 25ul		50ug/mL	
SV6500			FL PRO CAL 2	Lot: Man:	Rec'd: Exp:		25ul 50ul 2ul		10ug/mL	
SV6501			FL PRO CAL 1	Lot: Man:	Rec'd: Exp:		25ul 50ul 1ul		2ug/mL	
SV6502			FL PRO SECCV	Lot: SV6459F SV52780 SV4697C Man:	Rec'd: Exp:		25ul 50ul 75ul		150ug/mL	9/17/02 TS
SV6503	9/17/02	TS	8310 SV Cal mix 5	Lot: A022378 Man: Restek	Rec'd: 9.17.02 Exp: 4/05	NA	NA	NA	2000 mg/ml	

Organic Standards Log

OS #	Date prpd.	By	Description	Origin-Lot No. / Manufacturer	Date stock rec'd / Expiration Date	Diluent-Lot No.	Amount for Dil.	Final Vol.	Final Conc.	Discard
SV6513	9/17/02	KSM	8310 TOP Std Intermed.	Lot: Mix 5; SV5132 1-M: SV5556B 2-M: SV5183 ATS160: SV5587H Man:	Rec'd: 2000mg/ml Exp: 12.17.02	ACN OS544F	280ml each	5ml	100mg/ml	
SV6514	9/17/02	AP	AP9 SPIKE (ALL)	Lot: SV3758B SV5082C ~~SV5085C~~ SV5085C Man: AP 9/17/02	Rec'd: — Exp:	DCM CF780 B+J	800ul of each.	10ml	160ug/ml.	
SV6515	9/17/02	TB	FL PRO SECCLV	Lot: SV6459F SV5278D SV4697C Man:	Rec'd: Exp: 3/16/03	DCM CF780 B+J	25ul 50ul 300ul	1ML	150ug/ML	
SV6516	9/18/02	AP	8270 TOP	Lot: SV3160G, SV3159G, SV5435A, SV4341B, SV4885, SV4861B, SV4856A, SV4856C, SV4884B, SV4343B, SV4392B, SV4292B, SV4293B, SV3752C Man:	Rec'd: — Exp:	DCM CF780 B+J	500ul of SV3160G, SV3159G & SV5435A. 250ul of all others.	5ml	100ug/ml.	
SV6517			8270 100 STD	Lot: SV6517 Man:	Rec'd: — Exp:		1ml	1ml	100ug/ml	
SV6518			8270 75 STD	Lot: Man:	Rec'd: — Exp:		750ul.	1ml	75ug/ml	
SV6519			8270 60 STD	Lot: Man:	Rec'd: — Exp:		600ul	1ml	60ug/ml.	
SV6520			8270 45 STD	Lot: Man:	Rec'd: — Exp:		1800ul	4ml	45ug/ml	
SV6521	✓		8270 20 STD	Lot: ✓ Man:	Rec'd: — Exp:	✓	200ul.	1ml.	20ug/ml.	

OS #	Date prpd.	By	Description	Origin-Lot No. Manufacturer	Date stock rec'd Expiration Date	Diluent-Lot No.	Amount for Dil.	Final Vol.	Final Conc.	Discarded
SV6454G	9/4/02	AP	8270 SURROGATE	Lot: 103626 Man. EE	Rec'd: 9/4/02 Exp: 7/31/03	—	—	25ml	BN; A 100:200 ug/ml	
SV6454H				Lot: Man:	Rec'd: Exp:	—	—			
SV6454I				Lot: Man:	Rec'd: Exp:	—	—			
SV6454J				Lot: Man.	Rec'd: Exp:	—	—			
SV6455	9/5/02	LM	PLRU C-39 working	Lot: SV6231D,E SV6230AB Man:	Rec'd: Exp:		5.0mL	50mL	600 ug/mL	
CB-12-02 SV6456 A-D	9/5/02	LM	Aroclor 1260	Lot: S-0799 Man: Ultra	Rec'd: 9/5/02 Exp: 7/05				100 ug/mL	
SV6457 A-D	9/5/02	LM	DCAA	Lot: S-0651 Man: Ultra	Rec'd: 9/5/02 Exp: 6/04				100 ug/mL	
SV6458 LM ~~A-D~~	9/5/02	LM	Organochlorine Pest Mix	Lot: P-4303 Man: Ultra	Rec'd: 9/5/02 Exp: 4/04				2000 ug/mL	
SV6459 A->J	9/6/02	AP	FLPRO/DRO OTP surrogate	Lot: 1341-01-05 Man: NSI	Rec'd: 9/6/02 Exp: 12/03	—	—	1 ml.	2000 ug/ml.	F-T> 9/

Organic Standards Log

SV #	Date prpd.	By	Description	Origin-Lot No. Manufacturer	Date stock rec'd Expiration Date	Diluent-Lot No.	Amount for Dil.	Final Vol.	Final Conc.	Discarded
SV5277 A -> J	6/11/02	KP	FLORIDA TPH MIX	Lot: C4413-09 Man: NSI	Rec'd: 6/11/02 Exp: 10/03.	—	—	1 ml.	2000 ug/ml.	A 6/24/02 m B-E 7/18/02
SV5278 A → JD	6/11/02	KB	Florida TPH Surrogate	Lot: 1339-16-01 Man: NSI	Rec'd: 6-11-02 Exp: 03/04	—	—	1 mL	6001 ug/ml	
SV5279 A→J	6/11/02	KB	O-Terphenyl	Lot: W-1341-01-05 Man: NSI	Rec'd: 6-11-02 Exp: 12/02	—	—	1 mL	2000 ug/ml	F-H 6/27/02
SV5280	6/11/02	KB	Azinphos-ethyl	Lot: B1030318 Man: AccuStd	Rec'd: 6-11-02 Exp: 6-3-03	—	—	—	1002 ug/mL	
SV5281	6/11/02	KB	Carbophenothion	Lot: B0110055-1A Man: Accu Std	Rec'd: 6-11-02 Exp: 12-31-02	—	—	—	1000 ug/mL	
SV5282	6/11/02	KB	Chlorfenvinphos	Lot: A7070174-2B Man: Accu Std	Rec'd: 6-11-02 Exp: 5-3-04	—	—	—	989 ug/mL	
SV5283	6/11/02	KB	Dioxathion	Lot: B1010263 Man: Accu Std	Rec'd: 6-11-02 Exp: 6-3-03	—	—	—	1002 ug/mL	
SV5284	6/11/02	KB	Ethion	Lot: B0060311-3C Man: Accu Std	Rec'd: 6-11-02 Exp: 12-31-02	—	—	—	990 ug/mL	
SV5285	6/11/02	KB	Famphur	Lot: B2030158 Man: Accu Std	Rec'd: 6-11-02 Exp: 6-6-03	—	—	—	1004 ug/mL	

OS #	Date prpd.	By	Description	Origin-Lot No. Manufacturer	Date stock rec'd Expiration Date	Diluent-Lot No.	Amount for Dil.	Final Vol.	Final Conc.	Discarded
SV6178 A-E	8/9/02	LM	FL PRO C-39	Lot: 1339-16-01 Man: NSI	Rec'd: 8/8/02 Exp: 3/04	~~n-pentane~~			600 ug/mL	
SV6179 A-E	8/9/02	LM	FL PRO TPH	Lot: C-443-09 Man: NSI	Rec'd: 8/8/02 Exp: 10/03				2000 ug/mL	0-72 91
SV6180 A-E	8/9/02	LM	FL PRO TPH	Lot: C-443 Man: NSI	Rec'd: 8/8/02 Exp: 10/03				2000 ug/mL	
SV6181	8/7/02	LM	TNRCC CAL 8	Lot: Man.	Rec'd: Exp:	n-pentane	100 µL	1 mL	10000 ug/mL	
SV6182			TNRCC CAL 7	Lot: Man:	Rec'd: Exp:		75 µL	1 mL	7500 ug/mL	
SV6183			TNRCC CAL 6	Lot: Man:	Rec'd: Exp:		50 µL	1 mL	5000 ug/mL	
SV6184			TNRCC CAL 5	Lot: Man:	Rec'd: Exp:		25 µL	1 mL	2500 ug/mL	
SV6185			TNRCC CAL 4	Lot: Man:	Rec'd: Exp:		10 µL	1 mL	1,000 ug/mL	
SV6186			TNRCC CAL 3	Lot: Man:	Rec'd: Exp:		5 µL	1 mL	500 ug/mL	

SV #	Date prpd.	By	Description	Origin-Lot No. Manufacturer	Date stock rec'd Expiration Date	Diluent-Lot No.	Amount for Dil.	Final Vol.	Final Conc.	Discarded
SV4695	3/22/02	LK	8141 Cal 2	Lot: SV4690 SV2840C Man:	Rec'd: — Exp:	PA ARX V33E49	100µL 10µL	1mL	1µg/mL	
SV4696	↓	↓	8141 Cal 1	Lot: ↓ Man:	Rec'd: — Exp:	↓	50µL 10µL	1mL	0.5µg/mL	
SV4697 A-D	3/22/02	DMD	FL PRO 2° TRP+1	Lot: ULTRA S-1538 Man:	Rec'd: — Exp:	—	—	—	500µg/mL	
SV4698			FL PRO CAL 7	Lot: SV3909B,M SV3766A SV4706 Man:	Rec'd: Exp:	DCM X04617	200 uL 25 uL 300 uL	1 mL	400 µg/mL	
SV4699			FL PRO CAL 6	Lot: Man:	Rec'd: Exp:		150 uL 25 uL 300 uL		300 µg/mL	
SV4700			FL PRO CAL 5	Lot: Man:	Rec'd: Exp:		75 uL 25 uL 300 uL		150 µg/mL	
SV4701			FL PRO CAL 4	Lot: Man:	Rec'd: Exp:		50 uL 25 uL 300 uL		100 µg/mL	
SV4702			FL PRO CAL 3	Lot: Man:	Rec'd: Exp:		25 uL 25 uL 300 uL		50 µg/mL	
SV4703	↓	↓	FL PRO CAL 2	Lot: ↓ Man:	Rec'd: Exp:	↓	5 uL 25 uL 300 uL	↓	10 µg/mL	

Extraction/Analysis Method 3510/ FL PRO W

PEL LABORATORIES, INC.

DATE 9/16/02 9/17/02

817

Batch# 4931

Sample Number	Blank	LCS	RWMS	RWMSD	2209 102 -10 MS	-11 MSD	-9	-1	-2	-3
Sample Date					9.12.02					
Description					11Q30228 MS	SD		0103 0228	0203 0228	0303 0228
Odor					none			Sulphur	none	none
Color					Dark Brown			Yellow	Yellow	Brown
Sed.					a lot			none	none	yes
Vol./ Wt.	1000	1000	1000	1000	890	960	950	950	960	910
pH	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
SV6471 @ 100ug/mL OTP Surrogate ID SV6454 @ 100ug/mL C39	CM CM	CM CM	CM CM	CM CM	CM CM	CM CM	CM CM	CM CM	CM CM	CM CM
Spike ID		SV6472 @ 200ug/mL								
ISTD	NA									
Final Solvent	DCM									
Final Vol. (ml)	2.0									
Date Completed/By:	9/17/02/KC									
Remarks					80% sediment a lot of emulsion very nasty sample	50% sediment a lot of emulsion very nasty	a lot of emulsion very nasty		lot of emulsion	lot of emulsion
Stock Loc. Box/Row	TS1 / 1	/	/	/	/	/	/	/	/	/
Spike Witness		CM	CM	CM	CM	CM				

Base Lot # —

Acid Lot# —

Extraction Lot # 05L652F

Final Solvent Lot # —

Bath Temp 50°C

Extraction/Analysis Method 3510 / HLFRW

PEL LABORATORIES, INC.

818

Sample Number	2209 102 -4	-5	-6	-7	-8	-12	-13			
Sample Date	91202						91302			
Description	04 030228	05	06	07	10	DUP	EQB			
Odor	light	none	none	none solvent like	none	none solvent like	none			
Color	yellow	yellow	lt yellow	lt yellow	lt. yellow	lt yellow	clear			
Sed.	none	none	none	none	none	none	none			
Vol./ Wt.	910	950	940	920	930	920	910			
pH	<2	<2	<2	<2	<2	<2	<2			
SV6471 Surrogate ID	CM CM	CM CM	CM CM	CM CM	CM CM	CM CM	CM CM			
Spike ID	NA									
ISTD	NA									
Final Solvent	DCM									
Final Vol. (ml)	2.0									
Date Completed/By:	91702 KC									
Remarks			lot of emulsion							
Stock Loc. Box/Row	B1, 2	/	/	/	/	/	/	/	/	/
Spike Witness										

Base Lot # —

Acid Lot# —

Extraction Lot # 05652F

Final Solvent Lot #_____

Bath Temp 50°

Organic Standards Log

ULTRA SCIENTIFIC 250 Smith St., North Kingstown, RI 02852 401-294-9400

Aroclor 1016 Solution

100 ug/mL in Isooctane

1 mL

PP-282

Lot No. S-0095 **Exp. Date** 02/2005

LAB USE ONLY

OS #	Date prpd.	By					Amount for Dil.	Final Vol.	Final Conc.	Discar
9-12-02 ~~DMC~~ SV6478 A -> D	9/11/02	LP								
SV6479	9/13/02	LP	2 PPM AP9 MDL STUDY MIX	Lot: SV5083B SV5084B Man: Accustd.	Rec'd: 11/9/02 Exp: 11/10/02	DCM	10 ml of each	10 ml	2 ug/ml	
SV6480			5 PPM AP9 MDL STUDY MIX	Lot: Man:	Rec'd: Exp:		25 ml of each		5 ug/ml	
SV6481			10 PPM AP9 MDL STUDY MIX	Lot: Man.	Rec'd: Exp:		50 ml of each.		10 ug/ml.	
SV6482	9/13/02	LP	5% DMDCS IN Toluene SYLON-CT	Lot: LB06711 Man: SUPELCO	Rec'd: 9/13/02 Exp: 9/12/03	—	—	—	For Silanizing liners only	
SV6483 9/14/02	9/14/02	LM	PEM	Lot: SV5457D Man:	Rec'd: Exp:	Hexane	50 uL	1 mL	Variable	
SV6484	9/16/02	LM	C-39 working	Lot: SV6374AD Man:	Rec'd: Exp:	DCM	5 mL	50 mL	600 ug/mL	
SV6485	9/16/02	TS	5L PRO CCV	Lot: SV6227A SV6052E SV5371F Man:	Rec'd: — Exp:	DCM	75 ul 50 ul 25 ul	1 ML ~~250 ML~~ TS 9/16/02	150 MG/L ~~1 MG~~ TS 9/16/02	
SV6486	9/16/02	AB	8310 working Surrogate	Lot: SV5587F Man:	Rec'd: 12/16/02 Exp:	ACN OS544F	1.0 ml	100 ml	20 ug/ml	

Organic Standards Log

OS #	Date prpd	By	Description	Origin-Lot No. / Manufacturer	Date stock rec'd / Expiration Date	Diluent-Lot No.	Amount for Dil.	Final Vol.	Final Conc.	Discarded
SV6469	9/09/02	RO	8270 ✓ STD	Lot: SV6462 Man:	Rec'd: — Exp:	DCM Burdick & Jackson 2.5+CF 780	50 µl	1 ml	5 µg/ml	
SV6470	9/09/02	RO	8270 45 SEC ~~SEC~~ 9/10/02 RO	Lot: SV6368A Man:	Rec'd: — Exp:	↓	~~450 µl~~ 9/10/02 300 µl	1 ml	45 µg/ml	
SV6471	9/10/02	LM	FLPRO OTP working	Lot: SV5279A Man:	Rec'd: Exp:	↓	5.0 mL	100 mL	100 ug/mL	
SV6472	9/10/02	LM	FLPRO TPH working	Lot: SV6054B-E Man.	Rec'd: Exp:	↓	5.0 mL ~~2.5 mL~~	~~35~~ ~~50~~ mL ~~50~~ mL LM	200 ug/mL	
SV6473	9/11/02	AP	2 PPM MDL STUDY SPIKE	Lot: SV6374A SV5435A SV3758A (8270+514-OCP) Man: 13 AP9's	Rec'd: — Exp:		125 ul of SV6374A 10 ul of SV5435A & SV3758A	10 ml	2 ug/ml.	
SV6474	↓	↓	5 PPM MDL STUDY SPIKE	Lot: Man:	Rec'd: — Exp:		312.5 ul of SV6374A 25 ul of others	10 ml.	5 ug/ml	
SV6475	↓	↓	10 PPM MDL STUDY SPIKE	Lot: ↓ Man:	Rec'd: — Exp:		625 ul of SV6374A 50 ul of others.	10 ml.	10 ug/ml.	
SV6476 A→D	9/11/02	AP	TOXAPHENE SOL 2	Lot: S-1259 Man: ULTRA	Rec'd: 9/11/02 Exp: 12/05	—	—	1 ml	100 ug/ml.	
SV6477 A→D	9/11/02	AP	ULTRA SCIENTIFIC 250 Smith St., North Kingstown, RI 02852 401-294-9400 Aroclor 1260 Solution 100 ug/mL in Hexane PP-361 1 mL LAB USE ONLY				—	1 ml	100 ug/ml.	

Organic Standards Log

OS #	Date prpd.	By	Description	Origin-Lot No. / Manufacturer	Date stock rec'd / Expiration Date	Diluent-Lot No.	Amount for Dil.	Final Vol.	Final Conc.	Discarded
SV6374B	8/28/02	AP	8270 TCL LCS SPIKE	Lot: 882802-41 Man: NSI	Rec'd: 8/28/02 Exp: 8/27/03	—	—	25 ml	160 ug/ml.	
SV6374A A-J	8/28/02	AP	TPH Surrogate C-39	Lot: 1339-16-01 Man: NSI	Rec'd: 8/28/02 Exp: 3/04	—	—	1 ml	6000 ug/ml.	
SV6374 ~~A-E~~ AP 8/28/02	8/28/02	AP		Lot:	Rec'd:			1 ml	~~2000 ug/ml~~ AP 8/28/02	A-T 9/
—	—	—								
SV6375	8/28/02									
SV6376	8/28/02			Lot:						
SV6377										
—	—									
SV6378				Man:	Exp:					

AccuStandard, Inc. 125 Market Street • New Haven, CT 06513 Phone 800-442-5290 • 203-786-5290
M-8150-10 MCPP methyl ester 1 mL
2.0 mg/mL in Hexane
Lot: B1040286
Exp. Aug 28,2003
SV6374
FOR LABORATORY USE ONLY
STORAGE AMBIENT
POISON

AccuStandard, Inc. 125 Market Street • New Haven, CT 06513 Phone 800-442-5290 • 203-786-5290
M-8150-09 MCPA methyl ester 1 mL
2.0 mg/mL in Hexane
Lot: B0060332
Exp. Aug 28,2003
SV6375
FOR LABORATORY USE ONLY
STORAGE AMBIENT

AccuStandard, Inc. 125 Market Street • New Haven, CT 06513 Phone 800-442-5290 • 203-786-5290
M-8150-08 Dinoseb methyl ether 1 mL
0.2 mg/mL in Hexane
Lot: B1090046
Exp. Aug 28,2003
SV6376
FOR LABORATORY USE ONLY
WARNING: This product contains a chemical(s) known to the State of California to cause birth defects or other reproductive harm.
STORAGE AMBIENT
CARCINOGENIC

AccuStandard, Inc. 125 Market Street • New Haven, CT 06513 Phone 800-442-5290 • 203-786-5290
M-8150-07 Dichlorprop methyl ester 1 mL
0.2 mg/mL in Hexane
Lot: B1030136
Exp. Aug 28,2003
SV6377
FOR LABORATORY USE ONLY
STORAGE AMBIENT
POISON

AccuStandard, Inc. 125 Market Street • New Haven, CT 06513 Phone 800-442-5290 • 203-786-5290
M-8150-06 Dicamba methyl ester 1 mL
0.2 mg/mL in Hexane
Lot: B1040303
Exp. Aug 28,2003
SV6378
FOR LABORATORY USE ONLY
STORAGE AMBIENT
POISON

				Manufacturer	Expiration Date	Diluent-Lot No.	Amount for Dil.	Final Vol.	Final Conc.	Discarded
SU 6052A-E	7/24/02	LM	C-39	Lot: 1339-16-01 Man: NSI	Rec'd: 7/24/02 Exp: 3/04				6000 ug/mL	~~F 8/30/02~~ E 8/30/02
SU6053 A-E	↓	↓	OTP	Lot: 1341-01-05 Man: NSI	Rec'd: 7/24/02 Exp: 12/03				2000ug/mL	TS 8/5/02 A-C
SU6054 A-E			TPH ~~OTP~~ um	Lot: 1341-01-05 Man: NSI	Rec'd: 7/24/02 Exp: 12/03				2000ug/mL	
SU6055 A-E			TPH	Lot: C-443-09 Man: ~~200~~ um NSI	Rec'd: 7/24/02 Exp: 10/03				2000ug/mL	
SU6056 A-B	↓	↓	OTP ~~TPH~~ um	Lot: C-443-09 Man: NSI	Rec'd: 7/24/02 Exp: 10/03				2000ug/mL	TS 8/5/02 (B)
SV6057	7/24/02	KB	Tox Cal 8	Lot: SV4449 SV5359 Man:	Rec'd: 9/19/02 12/19/02 Exp:	Hexane Lot V~~44~~E02	250 µl 10 µl	1 mL	2.5 µg/mL	KB 8/20/02
SV6058	7/24/02	KB	Chlor Cal 8	Lot: SV4736C ~~SV4679~~ SV6359 Man:	Rec'd: 12/19/02 10/26/02 Exp:	↓	250 µl 10 µl	1 mL	2.5 µg/mL	KB 8/20/02
SV6059	7/24/02	KB	Chlordane Int.	Lot: SV4736C Man:	Rec'd: 4/02 Exp:	↓	1.0 mL	10 mL	10 µg/mL	
SV6060	↓	↓	Chlor Cal 7	Lot: SV4736C SV5359 Man:	Rec'd: 4/02 10/26/02 Exp:	↓	200 µl 10 µl	1 m	2.0 µg/mL	KB 8/20/02

822

PEL Laboratories, Inc.

Data file : \\TYOUNG\ee\chem\sfid02.i\916CALaq.b\CAL7.D
Lab Smp Id: SV6495 Client Smp ID: CAL7
Inj Date : 16-SEP-2002 20:46
Operator : SCOTT Inst ID: sfid02.i
Smp Info : SV6495
Misc Info : Florida PRO
Comment :
Method : \\Tyoung\EE\chem\sfid02.i\916CALaq.b\FLPROW.m
Meth Date : 23-Sep-2002 17:38 tscott Quant Type: ESTD
Cal Date : 16-SEP-2002 20:46 Cal File: CAL7.D
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.04
Processing Host: SVHPLC3

Concentration Formula: Amt * DF * (1/(Vi/1000)*Vf)

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1000.000	Sample Initial Volume
Vf	2.000	Final Extract Volume

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/ml)	AMOUNTS ON-COL (mg/ml)	
S 1 TPH (C8-C40)	1.500	11.200		42252632	6.80000	6.7(M)	TS
$ 2 ortho-Terphenyl	4.646	4.646	0.000	319656	0.05000	0.050(M)	TB
$ 3 Nonatriacontane	10.020	10.020	0.000	1941386	0.30000	0.34(M)	TB

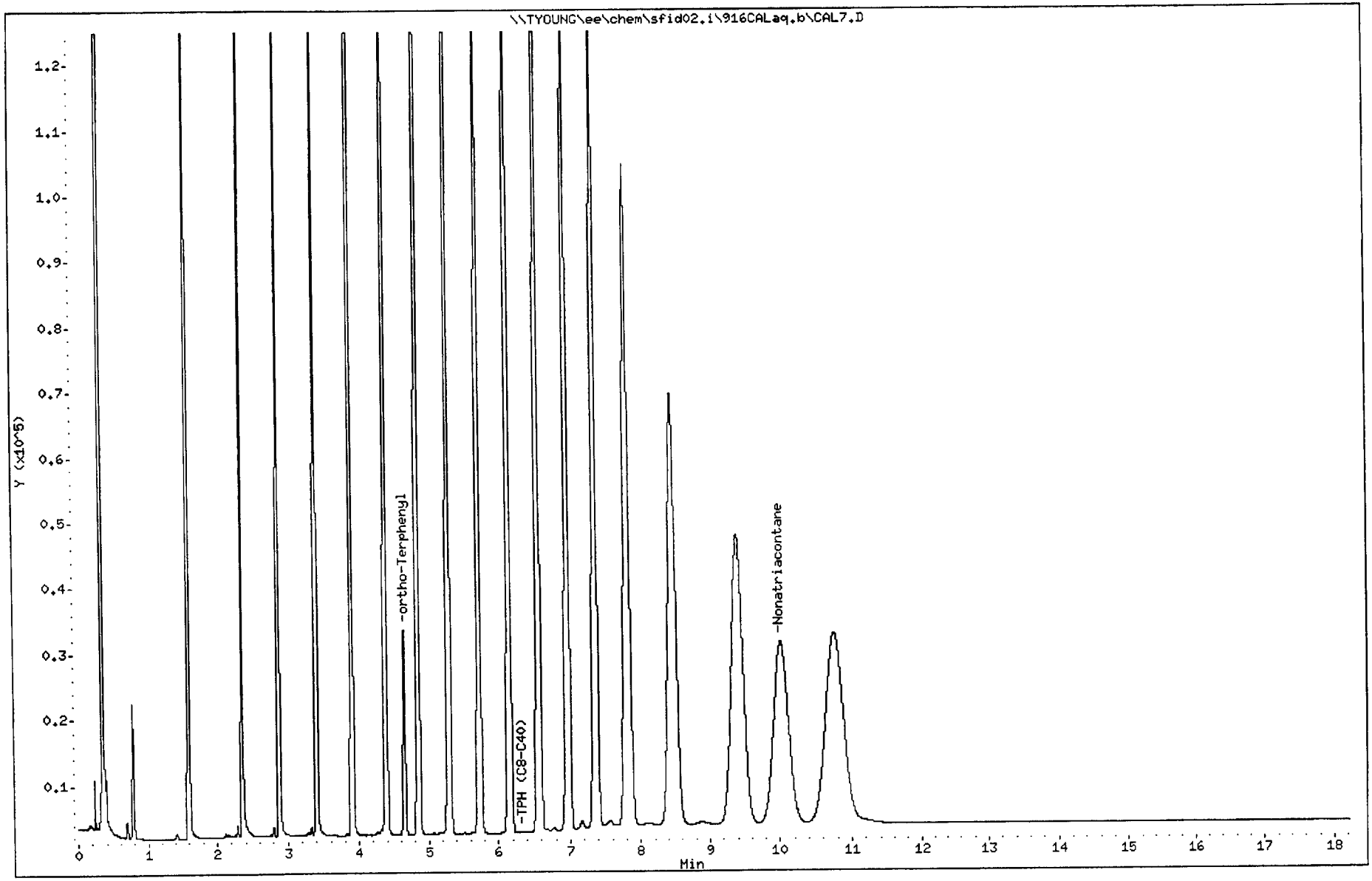
QC Flag Legend

M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid02.i\916CALaq.b\CAL7.D
Date : 16-SEP-2002 20:46
Client ID: CAL7
Sample Info: SV6495
Volume Injected (uL): 1000.0
Column phase: RTX-5

Instrument: sfid02.i

Operator: SCOTT
Column diameter: 0.53



PEL Laboratories, Inc.

Data file : \\TYOUNG\ee\chem\sfid02.i\916CALaq.b\CAL6.D
Lab Smp Id: SV9496 Client Smp ID: CAL6
Inj Date : 16-SEP-2002 21:15
Operator : SCOTT Inst ID: sfid02.i
Smp Info : SV9496
Misc Info : Florida PRO
Comment :
Method : \\Tyoung\EE\chem\sfid02.i\916CALaq.b\FLPROW.m
Meth Date : 23-Sep-2002 17:38 tscott Quant Type: ESTD
Cal Date : 16-SEP-2002 20:46 Cal File: CAL7.D
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.04
Processing Host: SVHPLC3

Concentration Formula: Amt * DF * (1/(Vi/1000)*Vf)

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1000.000	Sample Initial Volume
Vf	2.000	Final Extract Volume

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/ml)	AMOUNTS ON-COL (mg/ml)
S 1 TPH (C8-C40)	1.500-11.200			33242024	5.10000	5.2(M)
$ 2 ortho-Terphenyl	4.620	4.620	0.000	339959	0.05000	0.053(M)
$ 3 Nonatriacontane	9.903	9.903	0.000	1897428	0.30000	0.33(M)

TS

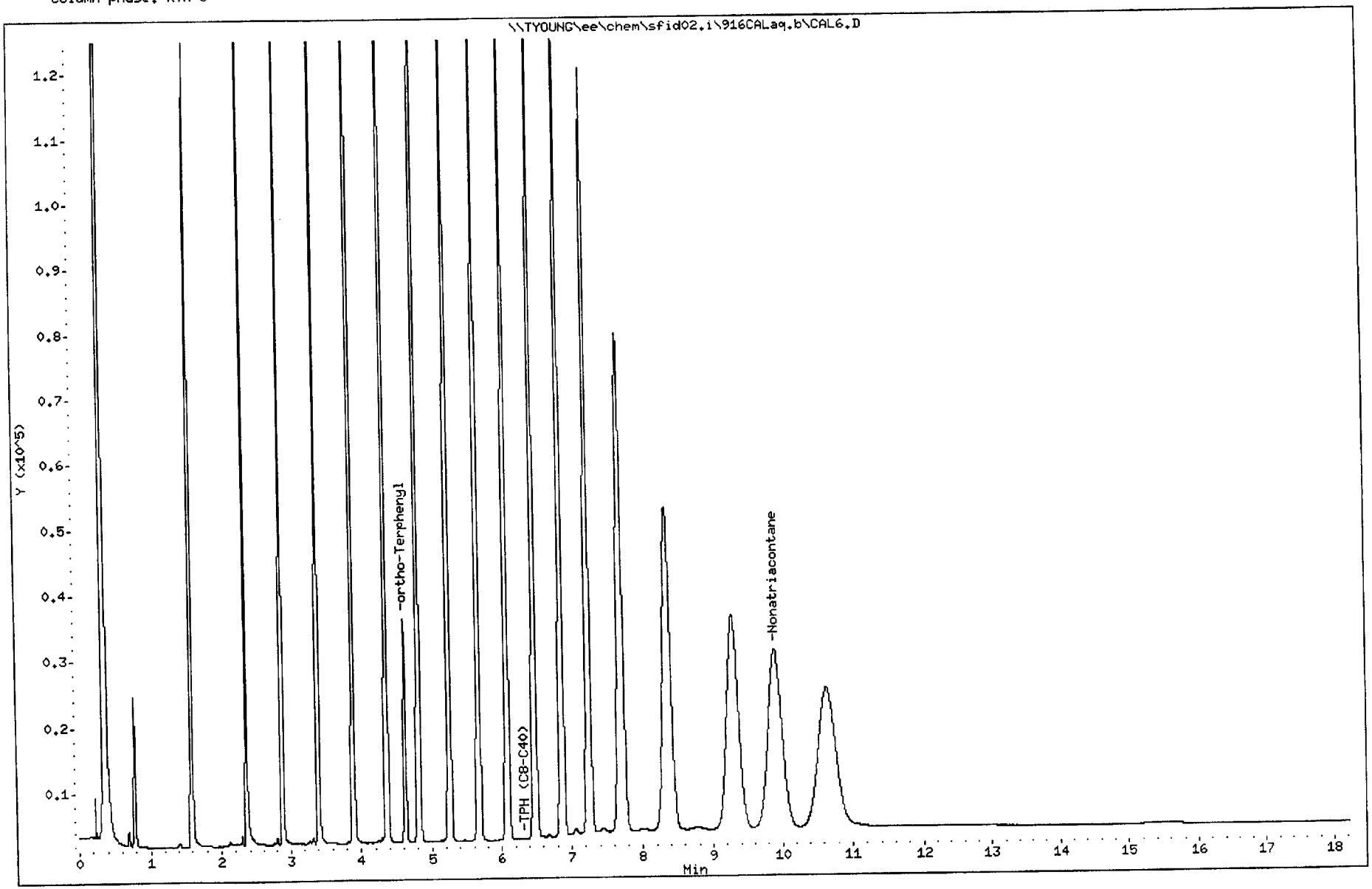
QC Flag Legend

M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid02.i\916CALaq.b\CAL6.D
Date : 16-SEP-2002 21:15
Client ID: CAL6
Sample Info: SV9496
Volume Injected (uL): 1000.0
Column phase: RTX-5

Instrument: sfid02.i

Operator: SCOTT
Column diameter: 0.53



PEL Laboratories, Inc.

Data file : \\TYOUNG\ee\chem\sfid02.i\916CALaq.b\CAL5.D
Lab Smp Id: SV6497 Client Smp ID: CAL5
Inj Date : 16-SEP-2002 21:44
Operator : SCOTT Inst ID: sfid02.i
Smp Info : SV6497
Misc Info : Florida PRO
Comment :
Method : \\Tyoung\EE\chem\sfid02.i\916CALaq.b\FLPROW.m
Meth Date : 23-Sep-2002 17:39 tscott Quant Type: ESTD
Cal Date : 16-SEP-2002 20:46 Cal File: CAL7.D
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.04
Processing Host: SVHPLC3

Concentration Formula: Amt * DF * (1/(Vi/1000)*Vf)

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1000.000	Sample Initial Volume
Vf	2.000	Final Extract Volume

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/ml)	AMOUNTS ON-COL (mg/ml)
S 1 TPH (C8-C40)	1.500-11.200			16463429	2.55000	2.5(M)
$ 2 ortho-Terphenyl	4.630	4.630	0.000	325516	0.05000	0.051(M)
$ 3 Nonatriacontane	9.933	9.933	0.000	1696363	0.30000	0.30(M)

TS

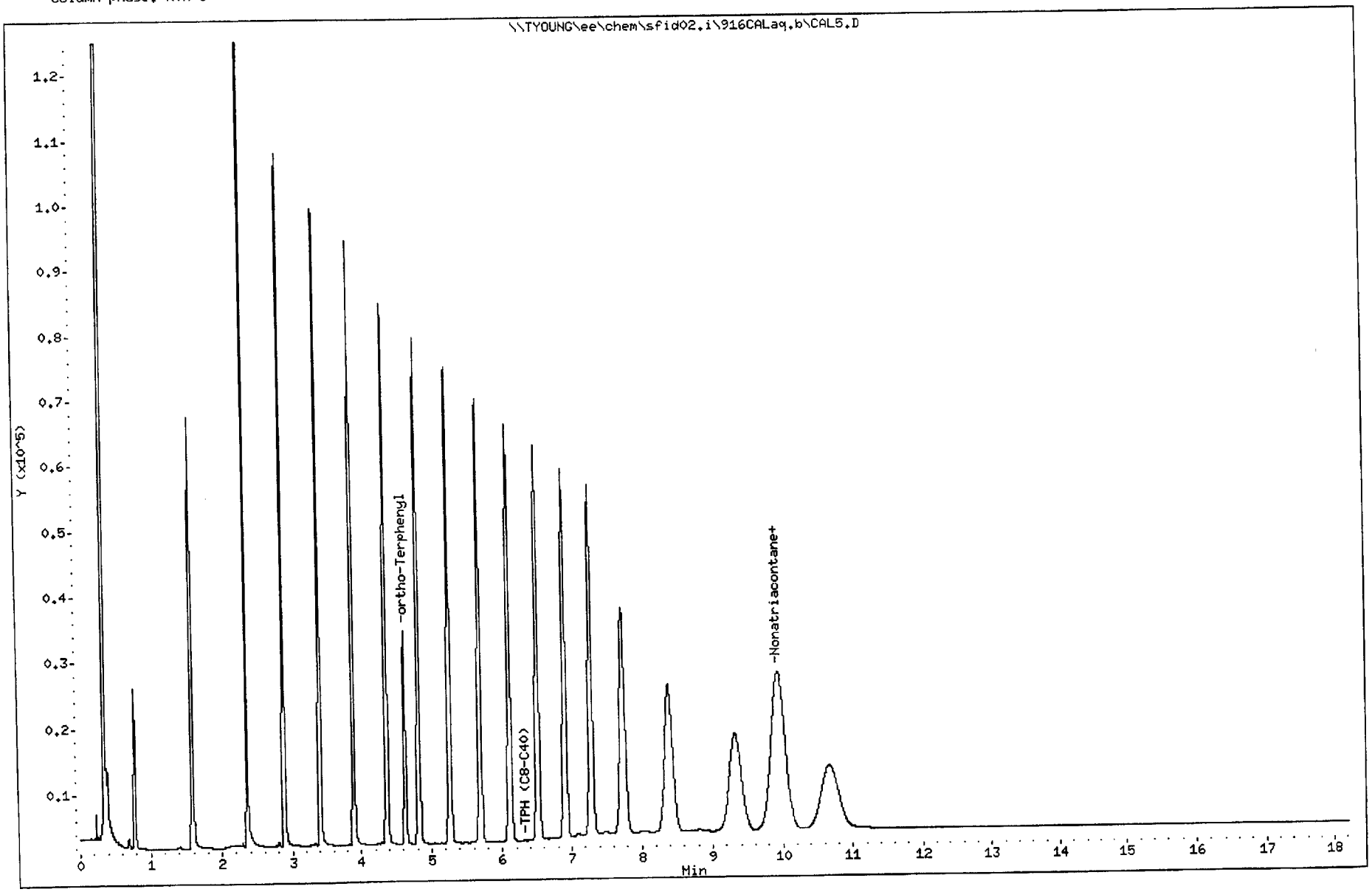
QC Flag Legend

M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid02.i\916CALaq.b\CAL5.D
Date : 16-SEP-2002 21:44
Client ID: CAL5
Sample Info: SV6497
Volume Injected (uL): 1000.0
Column phase: RTX-5

Instrument: sfid02.i

Operator: SCOTT
Column diameter: 0.53



PEL Laboratories, Inc.

Data file : \\TYOUNG\ee\chem\sfid02.i\916CALaq.b\CAL4.D
Lab Smp Id: SV9498 Client Smp ID: CAL4
Inj Date : 16-SEP-2002 22:13
Operator : SCOTT Inst ID: sfid02.i
Smp Info : SV9498
Misc Info : Florida PRO
Comment :
Method : \\Tyoung\EE\chem\sfid02.i\916CALaq.b\FLPROW.m
Meth Date : 23-Sep-2002 17:39 tscott Quant Type: ESTD
Cal Date : 16-SEP-2002 20:46 Cal File: CAL7.D
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.04
Processing Host: SVHPLC3

Concentration Formula: Amt * DF * (1/(Vi/1000)*Vf)

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1000.000	Sample Initial Volume
Vf	2.000	Final Extract Volume

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/ml)	AMOUNTS ON-COL (mg/ml)
S 1 TPH (C8-C40)	1.500	11.200		11871687	1.70000	1.8(M)
$ 2 ortho-Terphenyl	4.616	4.616	0.000	324176	0.05000	0.051(M)
$ 3 Nonatriacontane	9.900	9.900	0.000	1742677	0.30000	0.30(M)

TJ

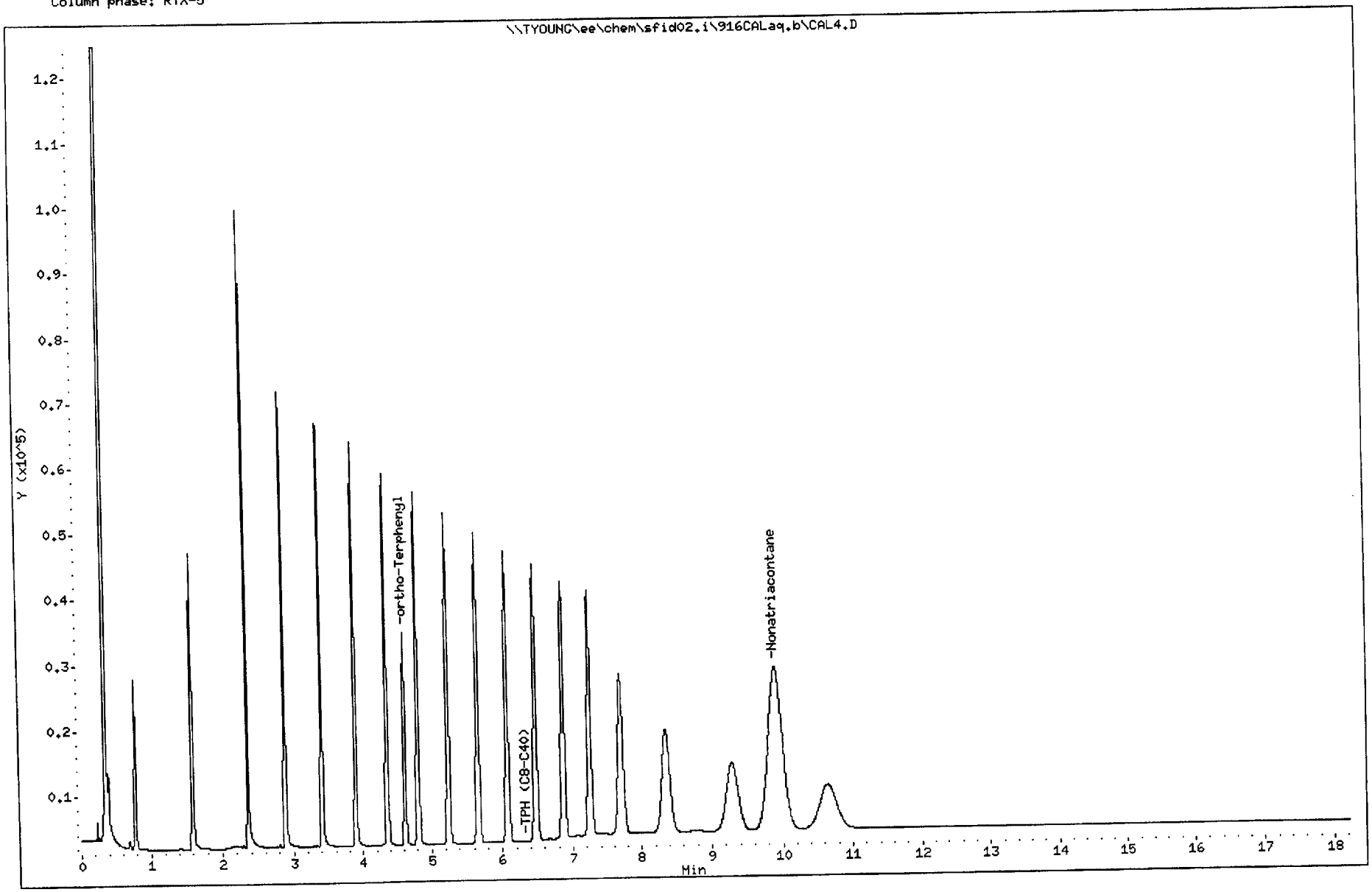
QC Flag Legend

M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid02.i\916CALaq.b\CAL4.D
Date : 16-SEP-2002 22:13
Client ID: CAL4
Sample Info: SV9498
Volume Injected (uL): 1000.0
Column phase: RTX-5

Instrument: sfid02.i

Operator: SCOTT
Column diameter: 0.53



PEL Laboratories, Inc.

Data file : \\TYOUNG\ee\chem\sfid02.i\916CALaq.b\CAL3.D
Lab Smp Id: SV9499 — Client Smp ID: CAL3
Inj Date : 16-SEP-2002 22:42
Operator : SCOTT — Inst ID: sfid02.i
Smp Info : SV9499
Misc Info : Florida PRO
Comment :
Method : \\Tyoung\EE\chem\sfid02.i\916CALaq.b\FLPROW.m
Meth Date : 23-Sep-2002 17:39 tscott — Quant Type: ESTD
Cal Date : 16-SEP-2002 20:46 — Cal File: CAL7.D
Als bottle: 1 — Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP Genie — Compound Sublist: all.sub
Target Version: 4.04
Processing Host: SVHPLC3

Concentration Formula: Amt * DF * (1/(Vi/1000)*Vf)

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1000.000	Sample Initial Volume
Vf	2.000	Final Extract Volume

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/ml)	AMOUNTS ON-COL (mg/ml)
S 1 TPH (C8-C40)	1.500-11.200			6030032	0.85000	0.82(M)
$ 2 ortho-Terphenyl	4.626	4.626	0.000	304573	0.05000	0.048(M)
$ 3 Nonatriacontane	9.926	9.926	0.000	1654608	0.30000	0.29(M)

TS

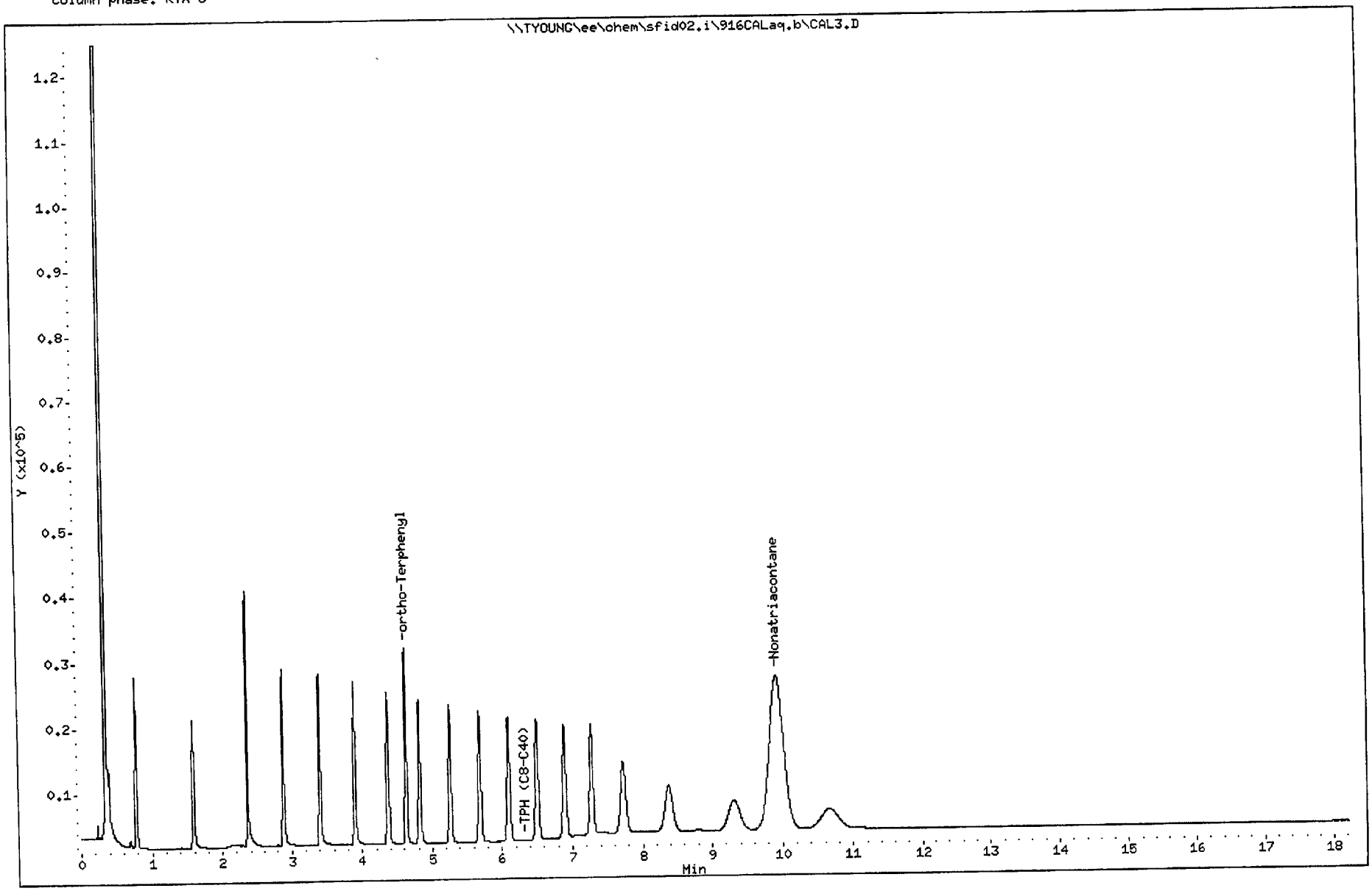
QC Flag Legend

M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid02.i\916CALaq.b\CAL3.D
Date : 16-SEP-2002 22:42
Client ID: CAL3
Sample Info: SV9499
Volume Injected (uL): 1000.0
Column phase: RTX-5

Instrument: sfid02.i

Operator: SCOTT
Column diameter: 0.53



PEL Laboratories, Inc.

Data file : \\TYOUNG\ee\chem\sfid02.i\916CALaq.b\CAL2.D
Lab Smp Id: SV6500 — Client Smp ID: CAL2
Inj Date : 16-SEP-2002 23:11
Operator : SCOTT — Inst ID: sfid02.i
Smp Info : SV6500
Misc Info : Florida PRO
Comment :
Method : \\Tyoung\EE\chem\sfid02.i\916CALaq.b\FLPROW.m
Meth Date : 23-Sep-2002 17:39 tscott — Quant Type: ESTD
Cal Date : 16-SEP-2002 20:46 — Cal File: CAL7.D
Als bottle: 1 — Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP Genie — Compound Sublist: all.sub
Target Version: 4.04
Processing Host: SVHPLC3

Concentration Formula: Amt * DF * (1/(Vi/1000)*Vf)

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1000.000	Sample Initial Volume
Vf	2.000	Final Extract Volume

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/ml)	AMOUNTS ON-COL (mg/ml)
S 1 TPH (C8-C40)	1.500-11.200			1502802	0.17000	0.087(aM)
$ 2 ortho-Terphenyl	4.633	4.633	0.000	308863	0.05000	0.048(M)
$ 3 Nonatriacontane	9.963	9.963	0.000	1579661	0.30000	0.28(M)

TS

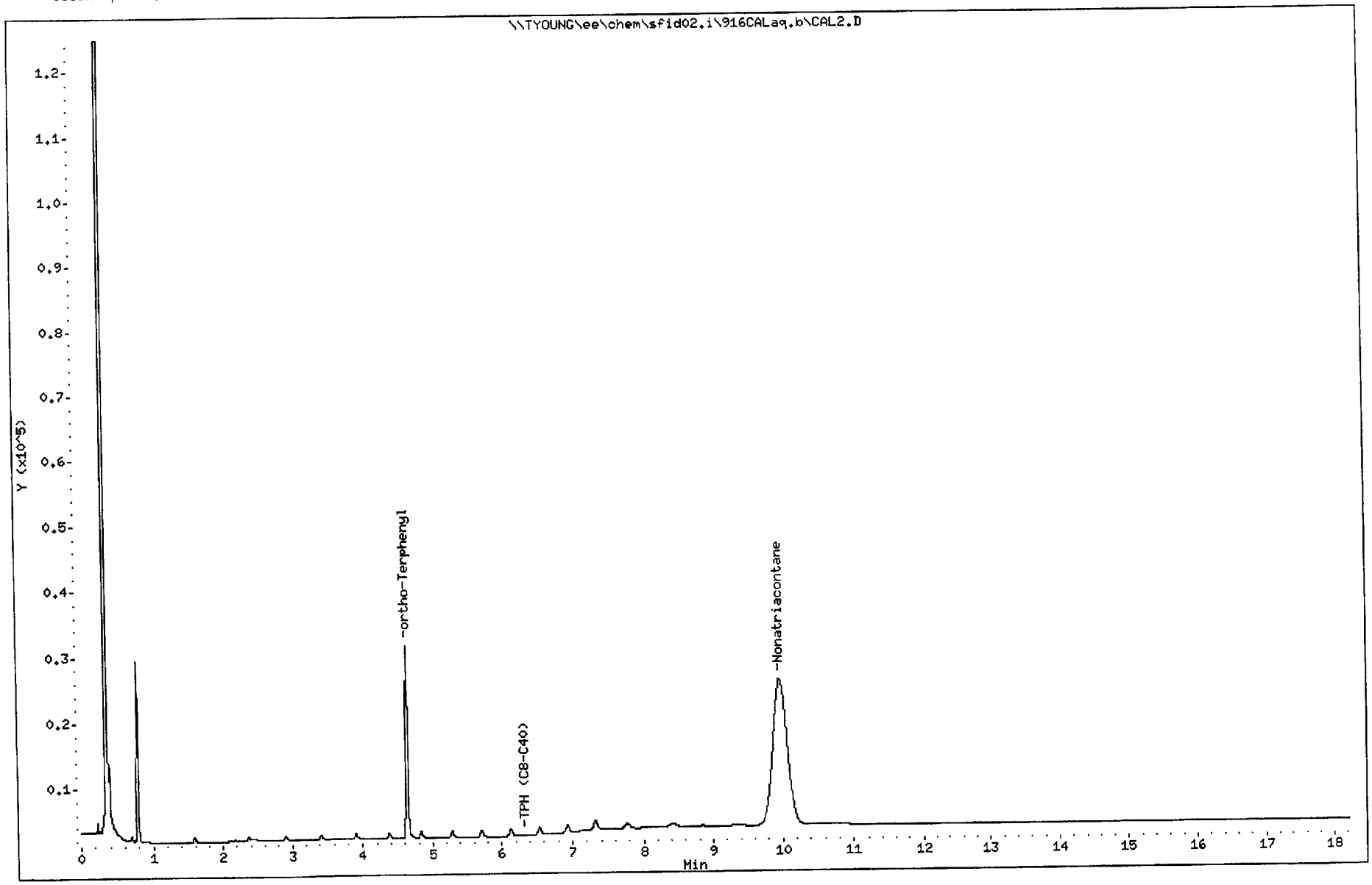
QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid02.i\916CALaq.b\CAL2.D
Date : 16-SEP-2002 23:11
Client ID: CAL2
Sample Info: SV6500
Volume Injected (uL): 1000.0
Column phase: RTX-5

Instrument: sfid02.i

Operator: SCOTT
Column diameter: 0.53



PEL Laboratories, Inc.

Data file : \\TYOUNG\ee\chem\sfid02.i\916CALaq.b\CAL1.D
Lab Smp Id: SV6501 Client Smp ID: CAL1
Inj Date : 16-SEP-2002 23:40
Operator : SCOTT Inst ID: sfid02.i
Smp Info : SV6501
Misc Info : Florida PRO
Comment :
Method : \\Tyoung\EE\chem\sfid02.i\916CALaq.b\FLPROW.m
Meth Date : 23-Sep-2002 17:39 tscott Quant Type: ESTD
Cal Date : 16-SEP-2002 23:40 Cal File: CAL1.D
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.04
Processing Host: SVHPLC3

Concentration Formula: Amt * DF * (1/(Vi/1000)*Vf)

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1000.000	Sample Initial Volume
Vf	2.000	Final Extract Volume

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/ml)	AMOUNTS ON-COL (mg/ml)
S 1 TPH (C8-C40)	1.500	-11.200		1497559	0.03400	0.086(aM)
$ 2 ortho-Terphenyl	4.623	4.623	0.000	303012	0.05000	0.048(M)
$ 3 Nonatriacontane	9.910	9.910	0.000	1468818	0.30000	0.26(M)

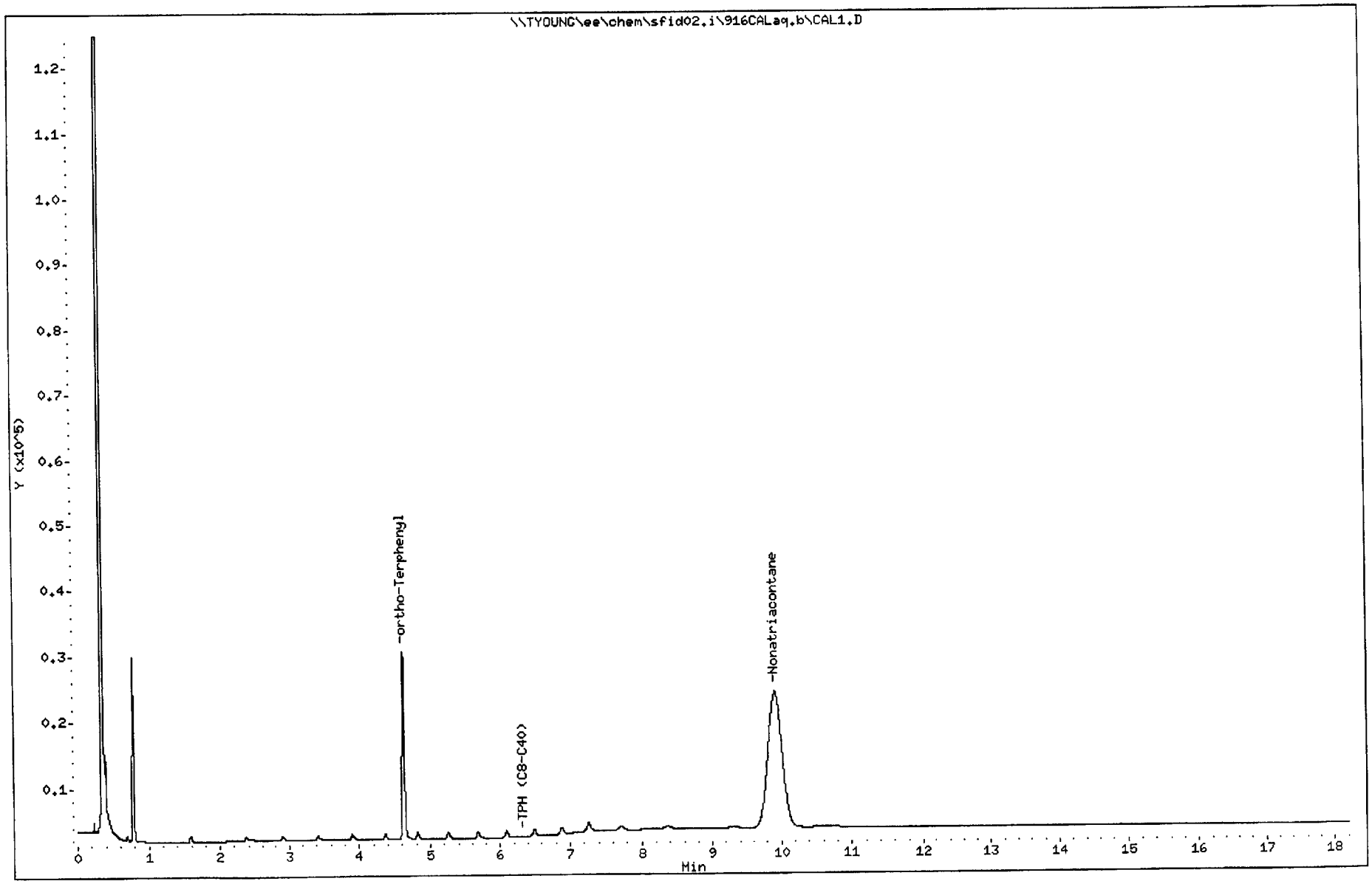
QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid02.i\916CALaq.b\CAL1.D
Date : 16-SEP-2002 23:40
Client ID: CAL1
Sample Info: SV6501
Volume Injected (uL): 1000.0
Column phase: RTX-5

Instrument: sfid02.i

Operator: SCOTT
Column diameter: 0.53



PEL Laboratories, Inc.

Data file : \\TYOUNG\ee\chem\sfid02.i\916CALaq.b\SECCCV.D
Lab Smp Id: SV6515 Client Smp ID: SECCCV1
Inj Date : 17-SEP-2002 20:41
Operator : SCOTT Inst ID: sfid02.i
Smp Info : SV6515
Misc Info : Florida PRO
Comment :
Method : \\Tyoung\EE\chem\sfid02.i\916CALaq.b\FLPROW.m
Meth Date : 23-Sep-2002 17:39 tscott Quant Type: ESTD
Cal Date : 16-SEP-2002 23:40 Cal File: CAL1.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.04
Processing Host: SVHPLC3

Concentration Formula: Amt * DF * (1/(Vi/1000)*Vf)

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1000.000	Sample Initial Volume
Vf	2.000	Final Extract Volume

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/ml)	AMOUNTS ON-COL (mg/ml)
S 1 TPH (C8-C40)	1.500-11.200			15242402	2.55000	2.3(M)
$ 2 ortho-Terphenyl	4.633	4.633	0.000	325819	0.05000	0.051(M)
$ 3 Nonatriacontane	9.963	9.963	0.000	1741524	0.30000	0.30(M)

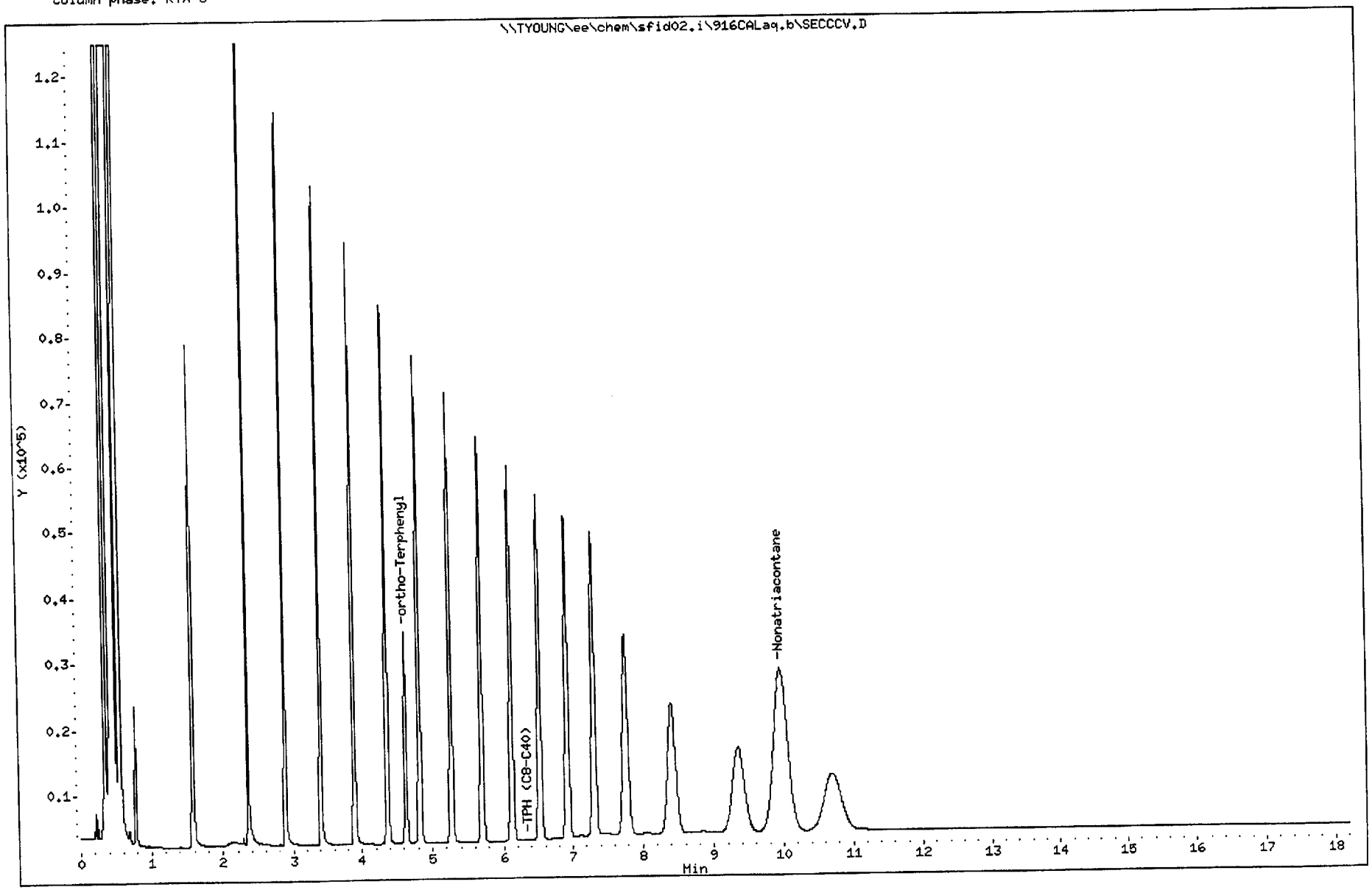
QC Flag Legend

M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid02.i\916CALaq.b\SECCCV.D
Date : 17-SEP-2002 20:41
Client ID: SECCCV1
Sample Info: SV6515
Volume Injected (uL): 1000.0
Column phase: RTX-5

Instrument: sfid02.i

Operator: SCOTT
Column diameter: 0.53



PEL Laboratories, Inc.

Data file : \\TYOUNG\ee\chem\sfid02.i\F2091702.b\CCV1.D
Lab Smp Id: SV6497 Client Smp ID: CCV1
Inj Date : 17-SEP-2002 22:08
Operator : SCOTT Inst ID: sfid02.i
Smp Info : SV6497
Misc Info : Florida PRO
Comment :
Method : \\Tyoung\EE\chem\sfid02.i\F2091702.b\FLPROW.m
Meth Date : 23-Sep-2002 17:39 tscott Quant Type: ESTD
Cal Date : 16-SEP-2002 23:40 Cal File: CAL1.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.04
Processing Host: SVHPLC3

Concentration Formula: Amt * DF * (1/(Vi/1000)*Vf)

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1000.000	Sample Initial Volume
Vf	2.000	Final Extract Volume

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/ml)	AMOUNTS ON-COL (mg/ml)
S 1 TPH (C8-C40)	1.500-11.200			16396042	2.55000	2.5(M)
$ 2 ortho-Terphenyl	4.636	4.636	0.000	316861	0.05000	0.050(M)
$ 3 Nonatriacontane	9.943	9.943	0.000	1684491	0.30000	0.30(M)

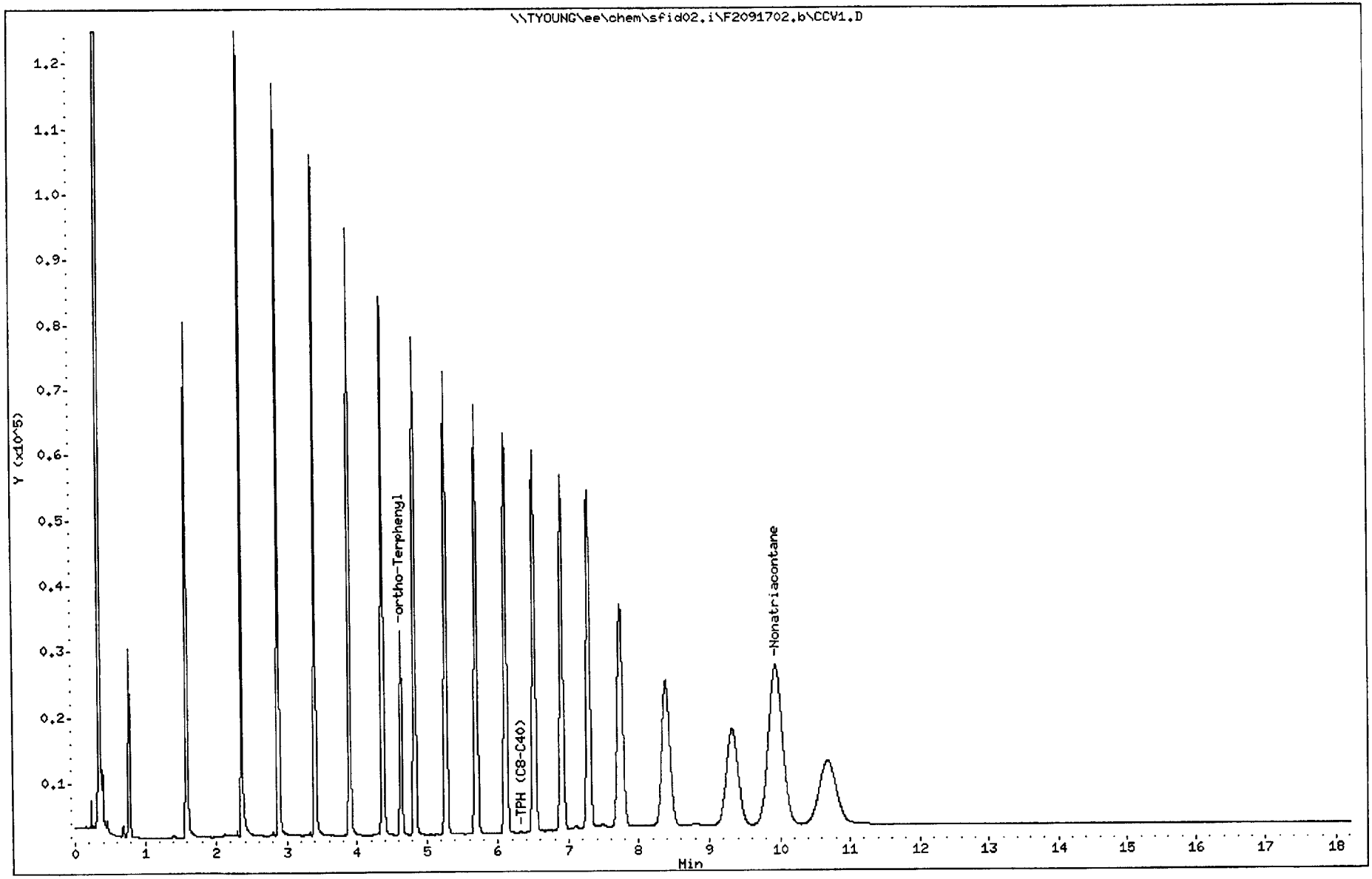
QC Flag Legend

M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid02.i\F2091702.b\CCV1.D
Date : 17-SEP-2002 22:08
Client ID: CCV1
Sample Info: SV6497
Volume Injected (uL): 1000.0
Column phase: RTX-5

Instrument: sfid02.i

Operator: SCOTT
Column diameter: 0.53



PEL Laboratories, Inc.

Data file : \\TYOUNG\ee\chem\sfid02.i\F2091702.b\917BLK.D
Lab Smp Id: 80642 Client Smp ID: 91702BLK01
Inj Date : 17-SEP-2002 22:37
Operator : SCOTT Inst ID: sfid02.i
Smp Info : 80642
Misc Info : Florida PRO
Comment :
Method : \\Tyoung\ee\chem\sfid02.i\F2091702.b\FLPROW.m
Meth Date : 23-Sep-2002 17:39 tscott Quant Type: ESTD
Cal Date : 16-SEP-2002 23:40 Cal File: CAL1.D
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.04
Processing Host: SVHPLC3

Concentration Formula: Amt * DF * (1/(Vi/1000)*Vf)

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1000.000	Sample Initial Volume
Vf	2.000	Final Extract Volume

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/ml)	CONCENTRATIONS FINAL (mg/L)
$ 2 ortho-Terphenyl	4.630	4.636	-0.006	281730	0.04430	0.089(M)
$ 3 Nonatriacontane	9.970	9.943	0.027	1366249	0.23947	0.48(M)

S B

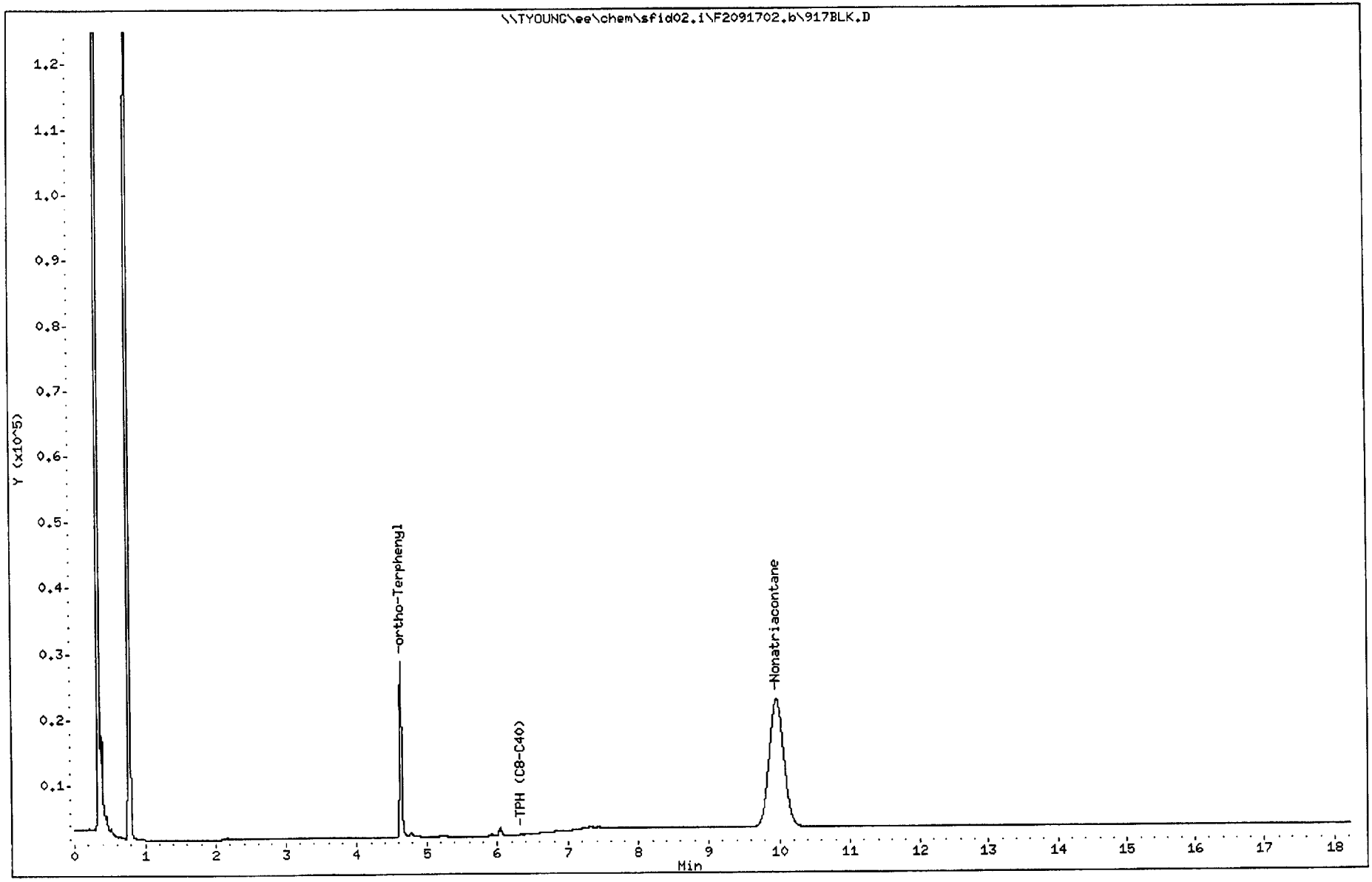
QC Flag Legend

M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid02.i\F2091702.b\917BLK.D
Date : 17-SEP-2002 22:37
Client ID: 91702BLK01
Sample Info: 80642
Volume Injected (uL): 1000.0
Column phase: RTX-5

Instrument: sfid02.i

Operator: SCOTT
Column diameter: 0.53



PEL Laboratories, Inc.

Data file : \\TYOUNG\ee\chem\sfid02.i\F2091702.b\917LCS.D
Lab Smp Id: 80643 Client Smp ID: 91702LCS01
Inj Date : 17-SEP-2002 23:06
Operator : SCOTT Inst ID: sfid02.i
Smp Info : 80643
Misc Info : Florida PRO
Comment :
Method : \\Tyoung\ee\chem\sfid02.i\F2091702.b\FLPROW.m
Meth Date : 23-Sep-2002 17:39 tscott Quant Type: ESTD
Cal Date : 16-SEP-2002 23:40 Cal File: CAL1.D
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.04
Processing Host: SVHPLC3

Concentration Formula: Amt * DF * (1/(Vi/1000)*Vf)

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1000.000	Sample Initial Volume
Vf	2.000	Final Extract Volume

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/ml)	FINAL (mg/L)
S 1 TPH (C8-C40)	1.500-11.200			11217190	1.66216	3.3(M)
$ 2 ortho-Terphenyl	4.610	4.636	-0.026	299700	0.04713	0.094(M)
$ 3 Nonatriacontane	9.856	9.943	-0.087	1341019	0.23505	0.47(M)

B

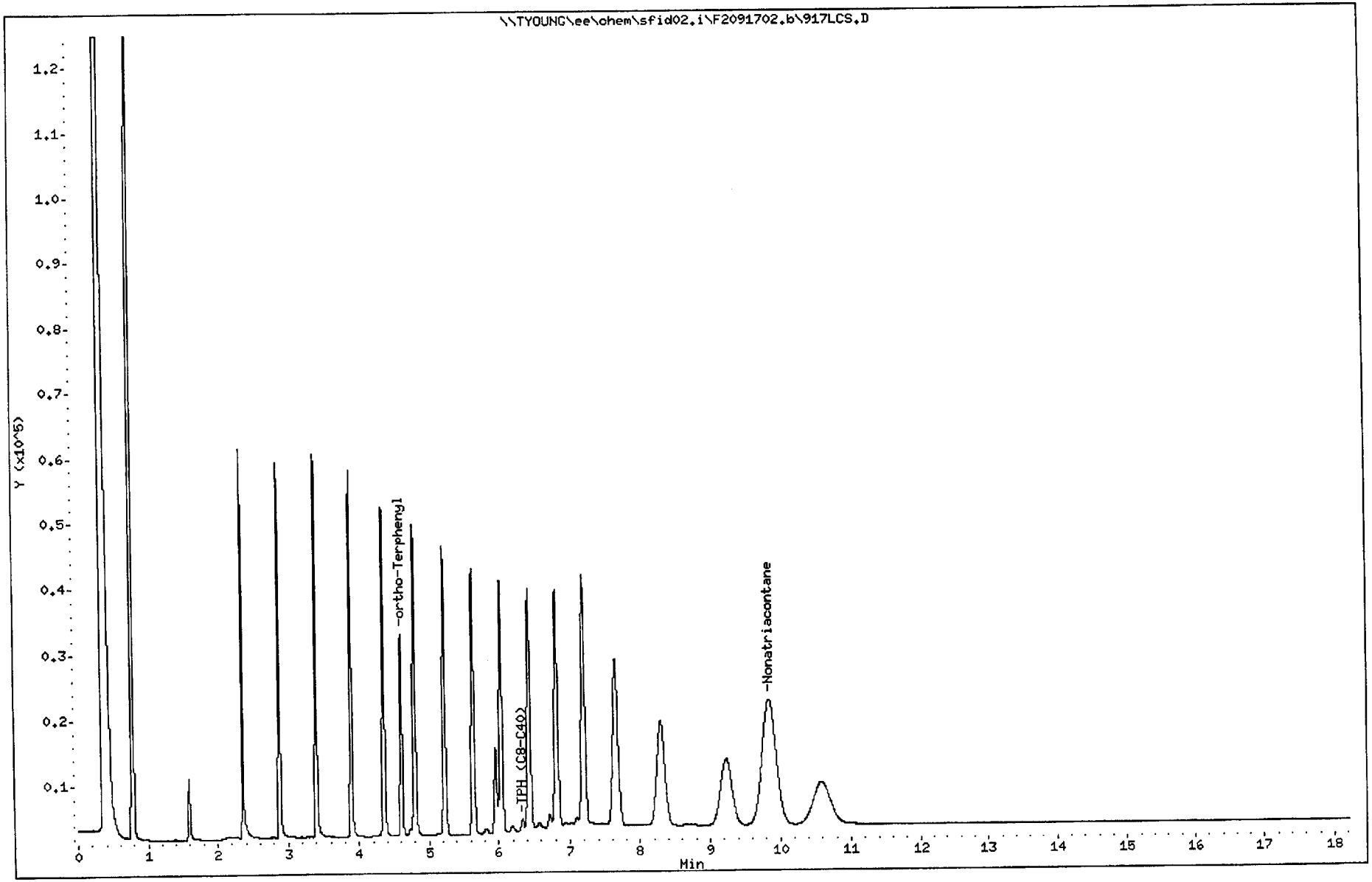
QC Flag Legend

M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid02.i\F2091702.b\917LCS.D
Date : 17-SEP-2002 23:06
Client ID: 91702LCS01
Sample Info: 80643
Volume Injected (uL): 1000.0
Column phase: RTX-5

Instrument: sfid02.i

Operator: SCOTT
Column diameter: 0.53



PEL Laboratories, Inc.

Data file : \\TYOUNG\ee\chem\sfid02.i\F2091702.b\102-1.D
Lab Smp Id: 220910201 Client Smp ID: 01Q30228
Inj Date : 18-SEP-2002 00:33
Operator : SCOTT Inst ID: sfid02.i
Smp Info : 220910201
Misc Info : Florida PRO
Comment :
Method : \\Tyoung\ee\chem\sfid02.i\F2091702.b\FLPROW.m
Meth Date : 23-Sep-2002 17:39 tscott Quant Type: ESTD
Cal Date : 16-SEP-2002 23:40 Cal File: CAL1.D
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.04
Processing Host: SVHPLC3

Concentration Formula: Amt * DF * (1/(Vi/1000)*Vf)

Name	Value	Description
DF	1.000	Dilution Factor
Vi	950.000	Sample Initial Volume
Vf	2.000	Final Extract Volume

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/ml)	CONCENTRATIONS FINAL (mg/L)
S 1 TPH (C8-C40)	1.500-11.200			1627152	0.10695	0.22(M)
$ 2 ortho-Terphenyl	4.630	4.636	-0.006	246341	0.03874	0.082(M)
$ 3 Nonatriacontane	9.916	9.943	-0.027	1149852	0.20154	0.42(M)

B

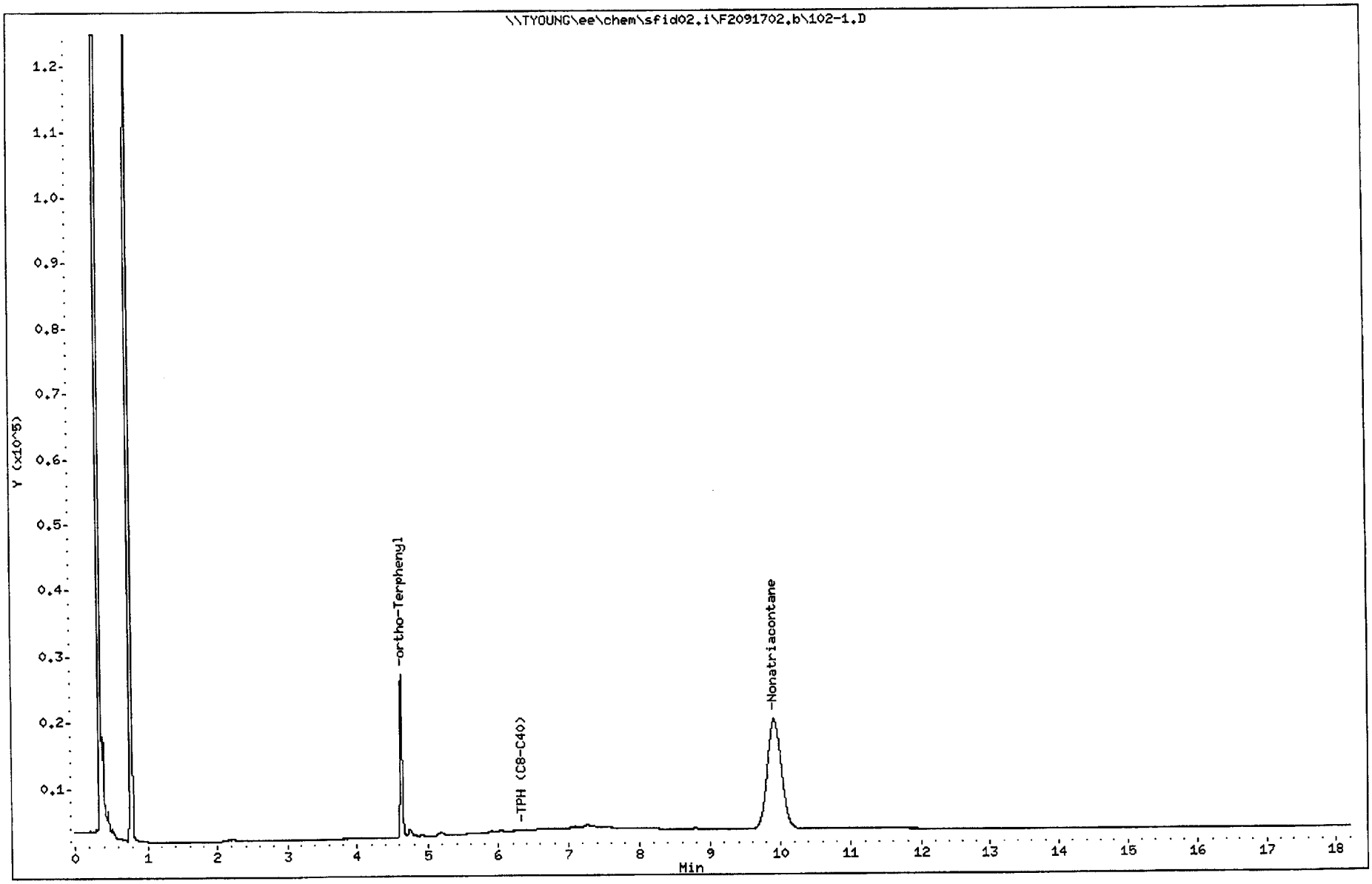
QC Flag Legend

M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid02.i\F2091702.b\102-1.D
Date : 18-SEP-2002 00:33
Client ID: 01Q30228
Sample Info: 220910201
Volume Injected (uL): 950.0
Column phase: RTX-5

Instrument: sfid02.i

Operator: SCOTT
Column diameter: 0.53



PEL Laboratories, Inc.

Data file : \\TYOUNG\ee\chem\sfid02.i\F2091702.b\102-2.D
Lab Smp Id: 220910202 Client Smp ID: 02Q30228
Inj Date : 18-SEP-2002 01:01
Operator : SCOTT Inst ID: sfid02.i
Smp Info : 220910202
Misc Info : Florida PRO
Comment :
Method : \\Tyoung\ee\chem\sfid02.i\F2091702.b\FLPROW.m
Meth Date : 23-Sep-2002 17:39 tscott Quant Type: ESTD
Cal Date : 16-SEP-2002 23:40 Cal File: CAL1.D
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.04
Processing Host: SVHPLC3

Concentration Formula: Amt * DF * (1/(Vi/1000)*Vf)

Name	Value	Description
DF	1.000	Dilution Factor
Vi	960.000	Sample Initial Volume
Vf	2.000	Final Extract Volume

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/ml)	FINAL (mg/L)
S 1 TPH (C8-C40)	1.500-11.200			5783127	0.78092	1.6(M)
$ 2 ortho-Terphenyl	4.613	4.636	-0.023	523559	0.08233	0.17(RM)
$ 3 Nonatriacontane	9.880	9.943	-0.063	2035659	0.35681	0.74(M)

TR

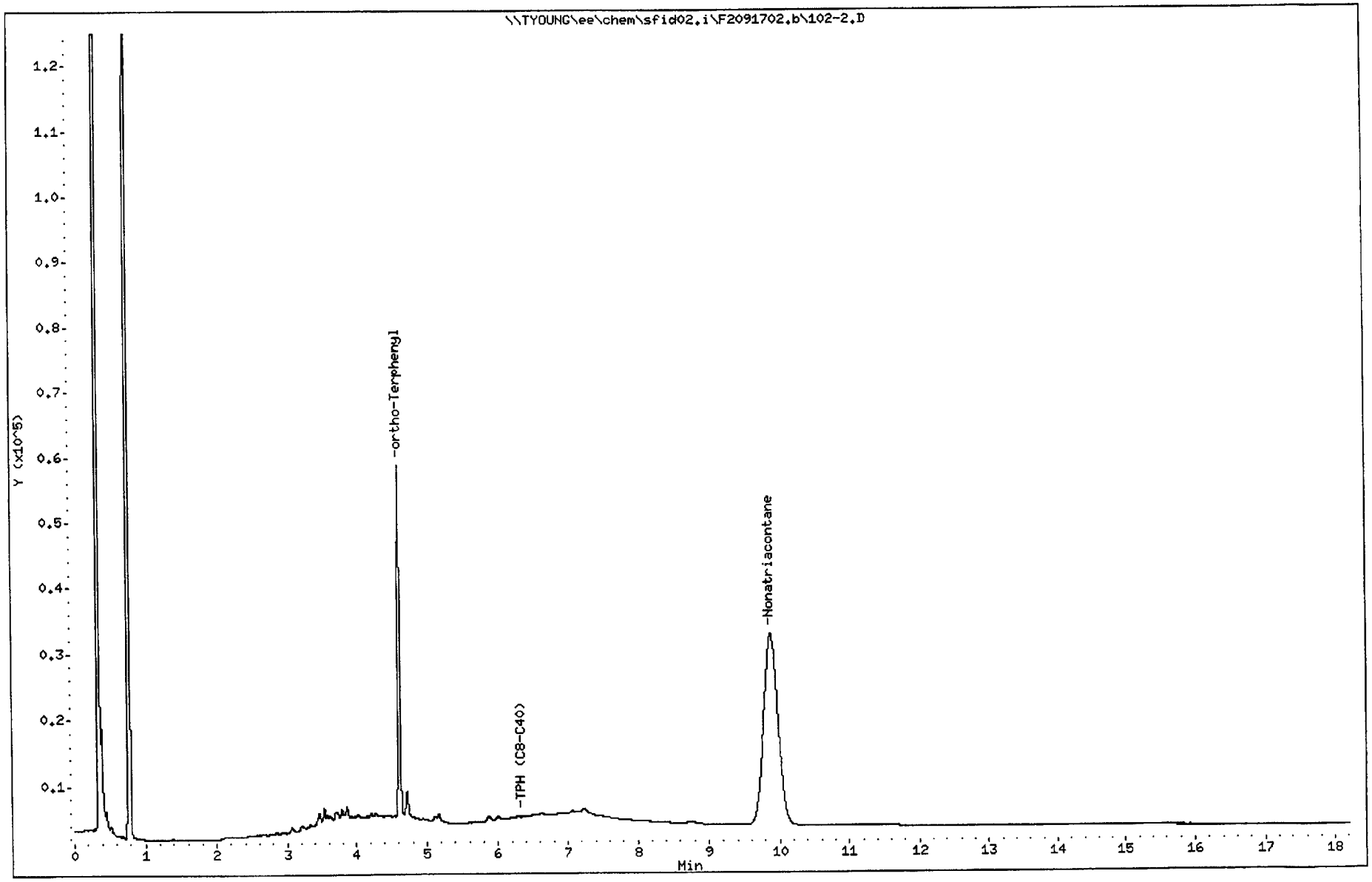
QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid02.i\F2091702.b\102-2.D
Date : 18-SEP-2002 01:01
Client ID: 02Q30228
Sample Info: 220910202
Volume Injected (uL): 960.0
Column phase: RTX-5

Instrument: sfid02.i

Operator: SCOTT
Column diameter: 0.53



PEL Laboratories, Inc.

Data file : \\TYOUNG\ee\chem\sfid02.i\F2091702.b\102-3.D
Lab Smp Id: 220910203 Client Smp ID: 03Q30228
Inj Date : 18-SEP-2002 01:30
Operator : SCOTT Inst ID: sfid02.i
Smp Info : 220910203
Misc Info : Florida PRO
Comment :
Method : \\Tyoung\ee\chem\sfid02.i\F2091702.b\FLPROW.m
Meth Date : 23-Sep-2002 17:39 tscott Quant Type: ESTD
Cal Date : 16-SEP-2002 23:40 Cal File: CAL1.D
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.04
Processing Host: SVHPLC3

Concentration Formula: Amt * DF * (1/(Vi/1000)*Vf)

Name	Value	Description
DF	1.000	Dilution Factor
Vi	910.000	Sample Initial Volume
Vf	2.000	Final Extract Volume

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/ml)	CONCENTRATIONS FINAL (mg/L)
S 1 TPH (C8-C40)	1.500	11.200		1629258	0.10729	0.24(M)
$ 2 ortho-Terphenyl	4.620	4.636	-0.016	237167	0.03729	0.082(RM)
$ 3 Nonatriacontane	9.920	9.943	-0.023	1285100	0.22525	0.50(M)

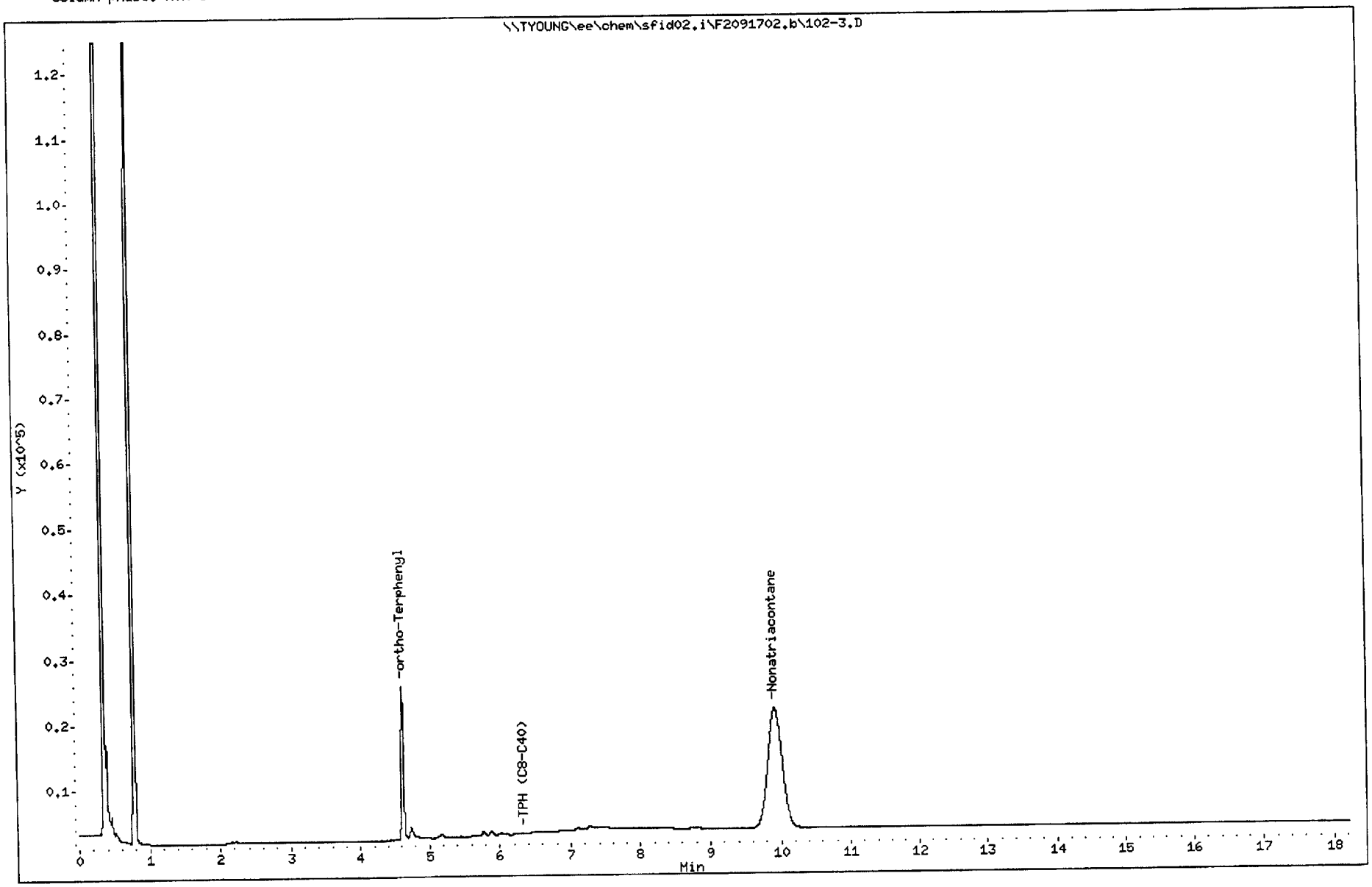
QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid02.i\F2091702.b\102-3.D
Date : 18-SEP-2002 01:30
Client ID: 03Q30228
Sample Info: 220910203
Volume Injected (uL): 910.0
Column phase: RTX-5

Instrument: sfid02.i

Operator: SCOTT
Column diameter: 0.53



PEL Laboratories, Inc.

Data file : \\TYOUNG\ee\chem\sfid02.i\F2091702.b\102-4.D
Lab Smp Id: 220910204 Client Smp ID: 04Q30228
Inj Date : 18-SEP-2002 01:59
Operator : SCOTT Inst ID: sfid02.i
Smp Info : 220910204
Misc Info : Florida PRO
Comment :
Method : \\Tyoung\ee\chem\sfid02.i\F2091702.b\FLPROW.m
Meth Date : 23-Sep-2002 17:39 tscott Quant Type: ESTD
Cal Date : 16-SEP-2002 23:40 Cal File: CAL1.D
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.04
Processing Host: SVHPLC3

Concentration Formula: Amt * DF * (1/(Vi/1000)*Vf)

Name	Value	Description
DF	1.000	Dilution Factor
Vi	910.000	Sample Initial Volume
Vf	2.000	Final Extract Volume

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/ml)	CONCENTRATIONS FINAL (mg/L)
S 1 TPH (C8-C40)	1.500-11.200			2753953	0.28969	0.64(M)
$ 2 ortho-Terphenyl	4.610	4.636	-0.026	300073	0.04719	0.10(M)
$ 3 Nonatriacontane	9.863	9.943	-0.080	1398896	0.24520	0.54(M)

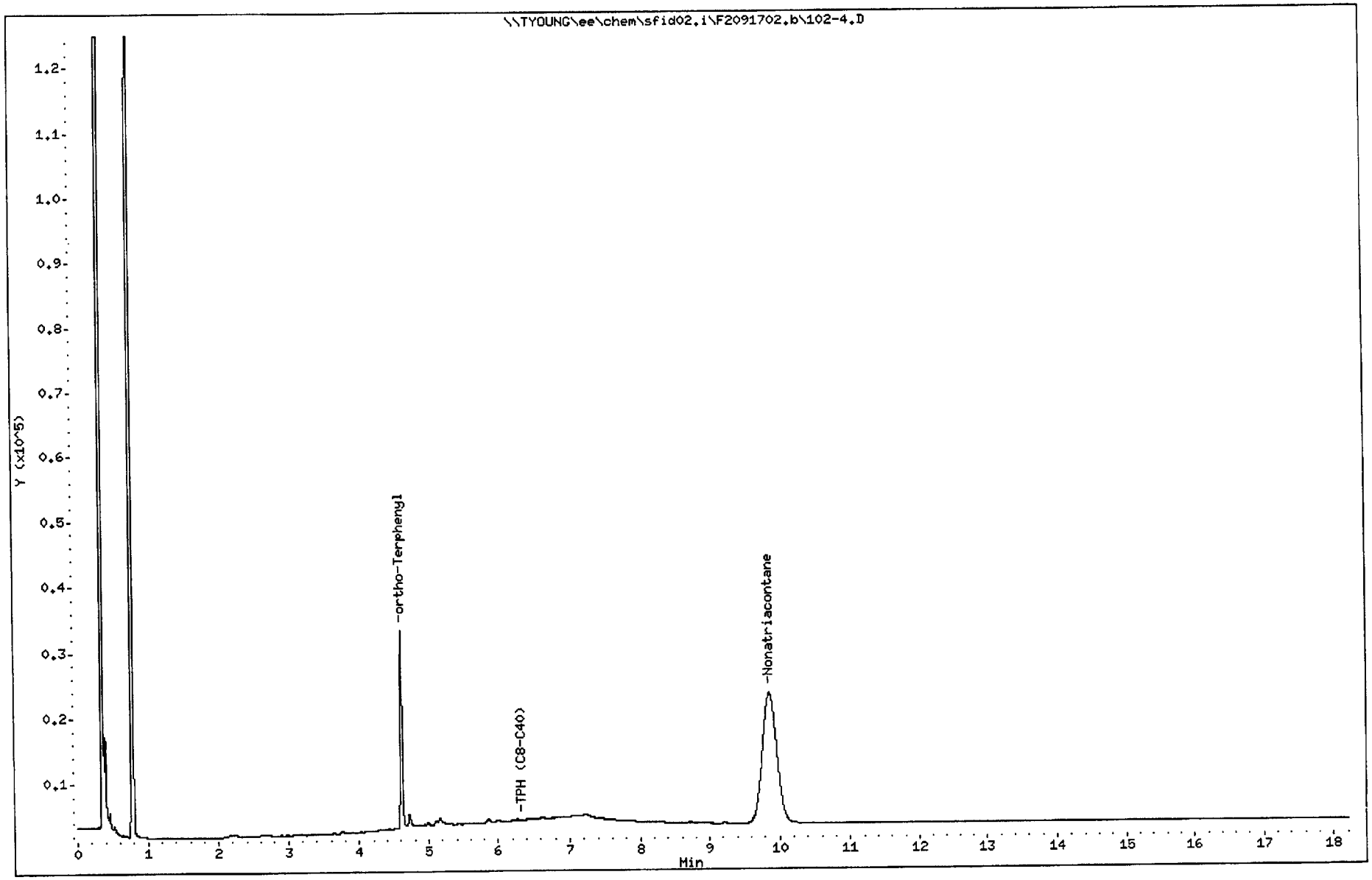
QC Flag Legend

M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid02.i\F2091702.b\102-4.D
Date : 18-SEP-2002 01:59
Client ID: 04Q30228
Sample Info: 220910204
Volume Injected (uL): 910.0
Column phase: RTX-5

Instrument: sfid02.i

Operator: SCOTT
Column diameter: 0.53



PEL Laboratories, Inc.

Data file : \\TYOUNG\ee\chem\sfid02.i\F2091702.b\102-5.D
Lab Smp Id: 220910205 Client Smp ID: 05Q30228
Inj Date : 18-SEP-2002 02:27
Operator : SCOTT Inst ID: sfid02.i
Smp Info : 220910205
Misc Info : Florida PRO
Comment :
Method : \\Tyoung\ee\chem\sfid02.i\F2091702.b\FLPROW.m
Meth Date : 23-Sep-2002 17:39 tscott Quant Type: ESTD
Cal Date : 16-SEP-2002 23:40 Cal File: CAL1.D
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.04
Processing Host: SVHPLC3

Concentration Formula: Amt * DF * (1/(Vi/1000)*Vf)

Name	Value	Description
DF	1.000	Dilution Factor
Vi	950.000	Sample Initial Volume
Vf	2.000	Final Extract Volume

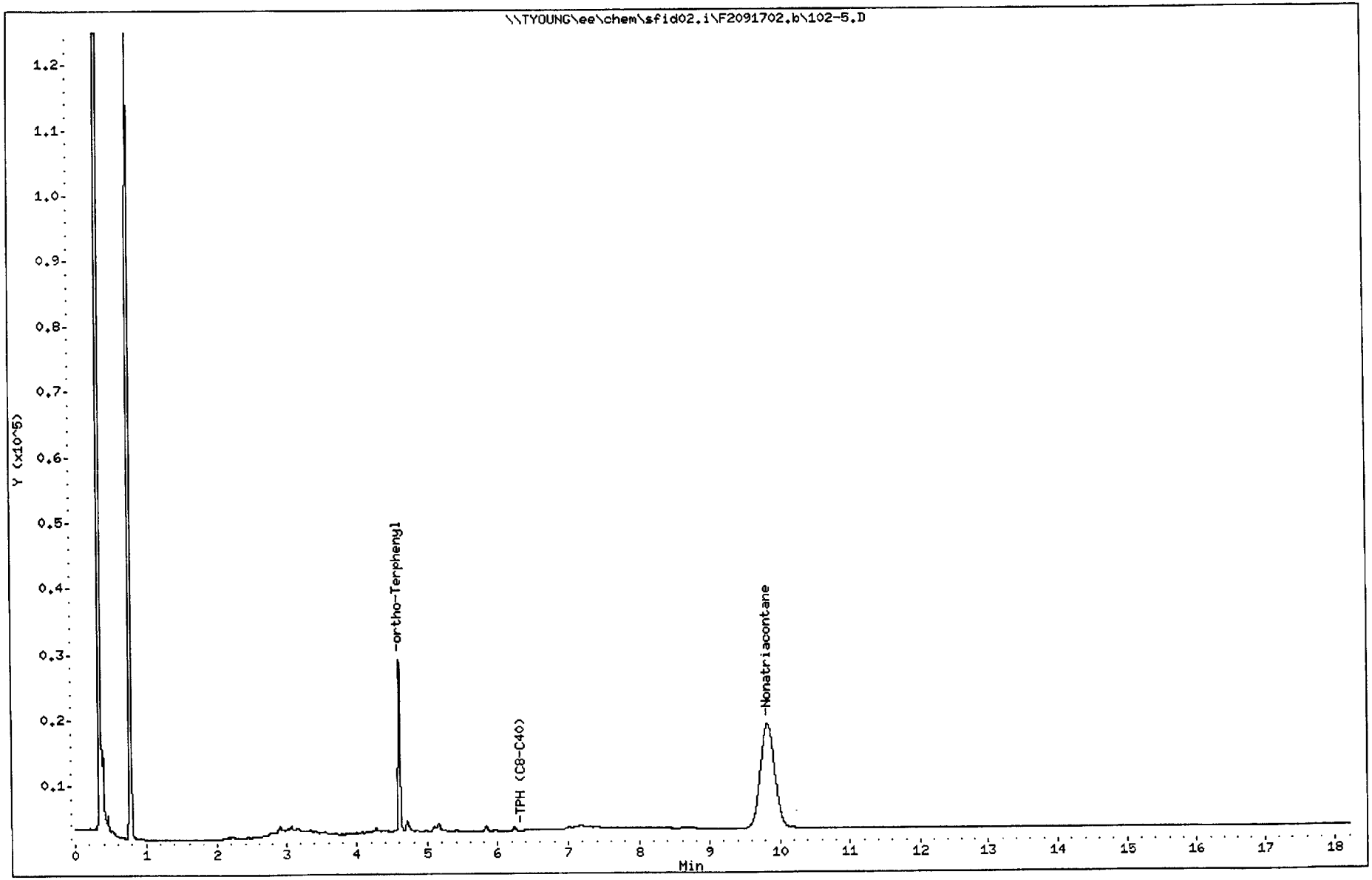
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/ml)	CONCENTRATIONS FINAL (mg/L)
S 1 TPH (C8-C40)	1.500-11.200			2046231	0.17491	0.37(M)
$ 2 ortho-Terphenyl	4.603	4.636	-0.033	256587	0.04035	0.085(M)
$ 3 Nonatriacontane	9.823	9.943	-0.120	1107345	0.19409	0.41(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid02.i\F2091702.b\102-5.D
Date : 18-SEP-2002 02:27
Client ID: 05Q30228
Sample Info: 220910205
Volume Injected (uL): 950.0
Column phase: RTX-5

Instrument: sfid02.i
Operator: SCOTT
Column diameter: 0.53



PEL Laboratories, Inc.

Data file : \\TYOUNG\ee\chem\sfid02.i\F2091702.b\102-6.D
Lab Smp Id: 220910206 Client Smp ID: 06Q30228
Inj Date : 18-SEP-2002 02:57
Operator : SCOTT Inst ID: sfid02.i
Smp Info : 220910206
Misc Info : Florida PRO
Comment :
Method : \\Tyoung\ee\chem\sfid02.i\F2091702.b\FLPROW.m
Meth Date : 23-Sep-2002 17:39 tscott Quant Type: ESTD
Cal Date : 16-SEP-2002 23:40 Cal File: CAL1.D
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.04
Processing Host: SVHPLC3

Concentration Formula: Amt * DF * (1/(Vi/1000)*Vf)

Name	Value	Description
DF	1.000	Dilution Factor
Vi	940.000	Sample Initial Volume
Vf	2.000	Final Extract Volume

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/ml)	CONCENTRATIONS FINAL (mg/L)
$ 2 ortho-Terphenyl	4.630	4.636	-0.006	256603	0.04035	0.086(RM)
$ 3 Nonatriacontane	9.910	9.943	-0.033	1284275	0.22511	0.48(M)

YD

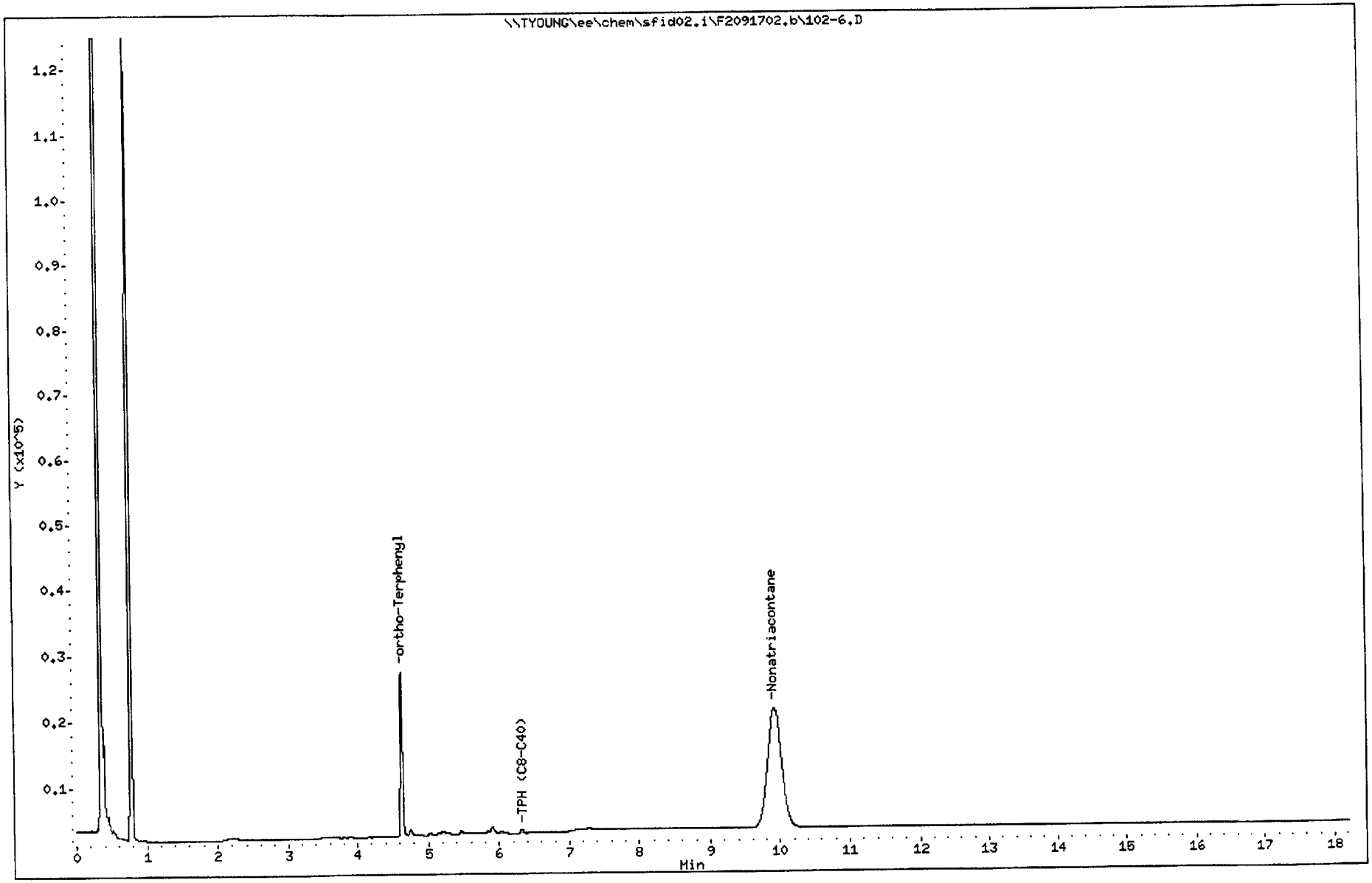
QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid02.i\F2091702.b\102-6.D
Date : 18-SEP-2002 02:57
Client ID: 06Q30228
Sample Info: 220910206
Volume Injected (uL): 940.0
Column phase: RTX-5

Instrument: sfid02.i

Operator: SCOTT
Column diameter: 0.53



PEL Laboratories, Inc.

Data file : \\TYOUNG\ee\chem\sfid02.i\F2091702.b\CCV2.D
Lab Smp Id: SV6497 Client Smp ID: CCV2
Inj Date : 18-SEP-2002 03:26
Operator : SCOTT Inst ID: sfid02.i
Smp Info : SV6497
Misc Info : Florida PRO
Comment :
Method : \\Tyoung\ee\chem\sfid02.i\F2091702.b\FLPROW.m
Meth Date : 23-Sep-2002 17:40 tscott Quant Type: ESTD
Cal Date : 16-SEP-2002 23:40 Cal File: CAL1.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.04
Processing Host: SVHPLC3

Concentration Formula: Amt * DF * (1/(Vi/1000)*Vf)

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1000.000	Sample Initial Volume
Vf	2.000	Final Extract Volume

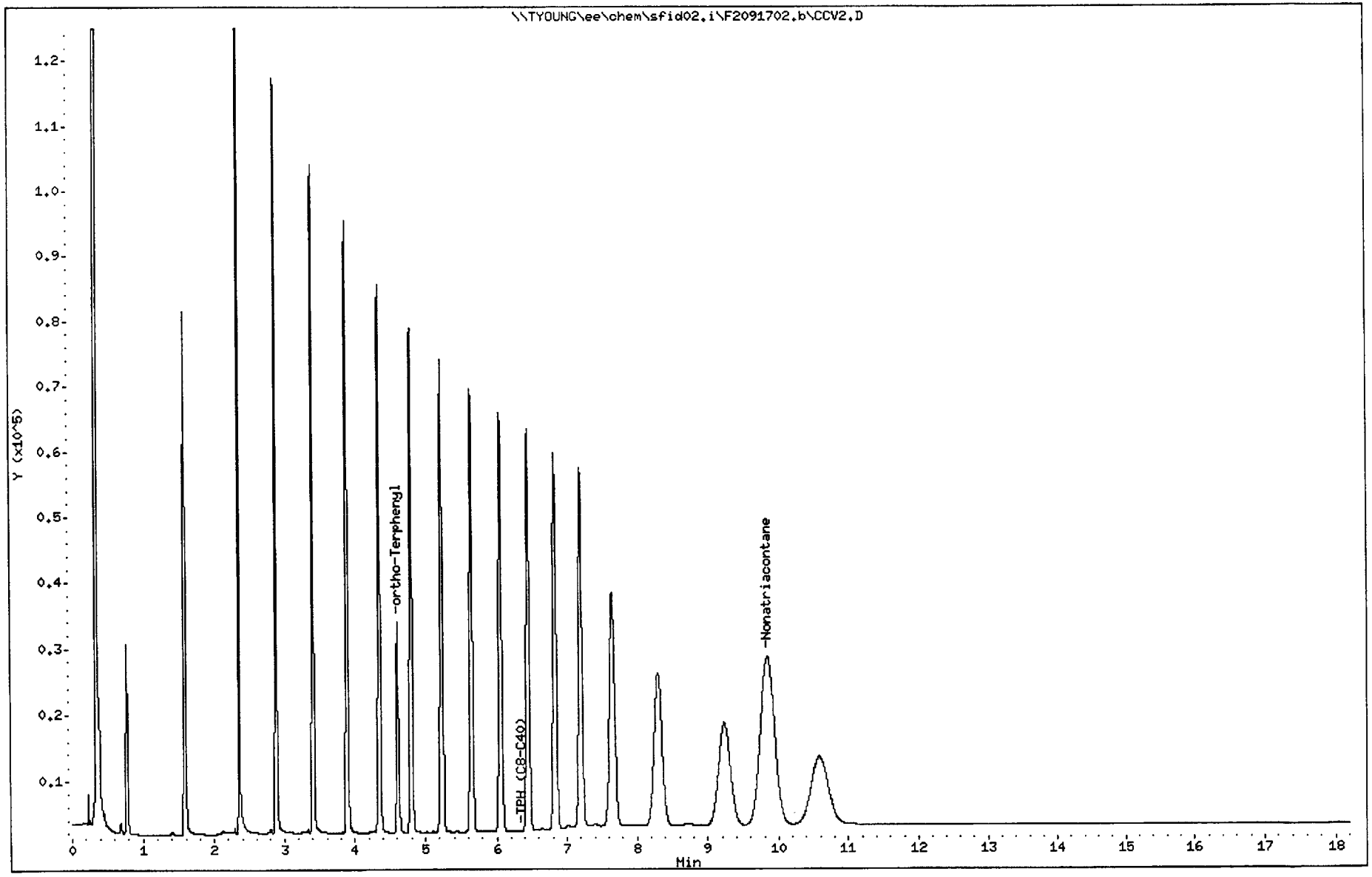
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/ml)	AMOUNTS ON-COL (mg/ml)
S 1 TPH (C8-C40)	1.500-11.200			16530572	2.55000	2.5(M)
$ 2 ortho-Terphenyl	4.610	4.610	0.000	315003	0.05000	0.050(M)
$ 3 Nonatriacontane	9.850	9.850	0.000	1787163	0.30000	0.31(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid02.i\F2091702.b\CCV2.D
Date : 18-SEP-2002 03:26
Client ID: CCV2
Sample Info: SV6497
Volume Injected (uL): 1000.0
Column phase: RTX-5

Instrument: sfid02.i
Operator: SCOTT
Column diameter: 0.53



PEL Laboratories, Inc.

Data file : \\TYOUNG\ee\chem\sfid02.i\F2091702.b\102-9.D
Lab Smp Id: 220910209 Client Smp ID: 11Q30228
Inj Date : 18-SEP-2002 08:52
Operator : SCOTT Inst ID: sfid02.i
Smp Info : 220910209
Misc Info : Florida PRO
Comment :
Method : \\Tyoung\ee\chem\sfid02.i\F2091702.b\FLPROW.m
Meth Date : 23-Sep-2002 17:40 tscott Quant Type: ESTD
Cal Date : 16-SEP-2002 23:40 Cal File: CAL1.D
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.04
Processing Host: SVHPLC3

Concentration Formula: Amt * DF * (1/(Vi/1000)*Vf)

Name	Value	Description
DF	1.000	Dilution Factor
Vi	950.000	Sample Initial Volume
Vf	2.000	Final Extract Volume

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/ml)	CONCENTRATIONS FINAL (mg/L)
S 1 TPH (C8-C40)	1.500-11.200			5890619	0.79836	1.7(M)
$ 2 ortho-Terphenyl	4.650	4.610	0.040	218865	0.03442	0.072(RM)
$ 3 Nonatriacontane	10.013	9.850	0.163	1048820	0.18384	0.39(M)

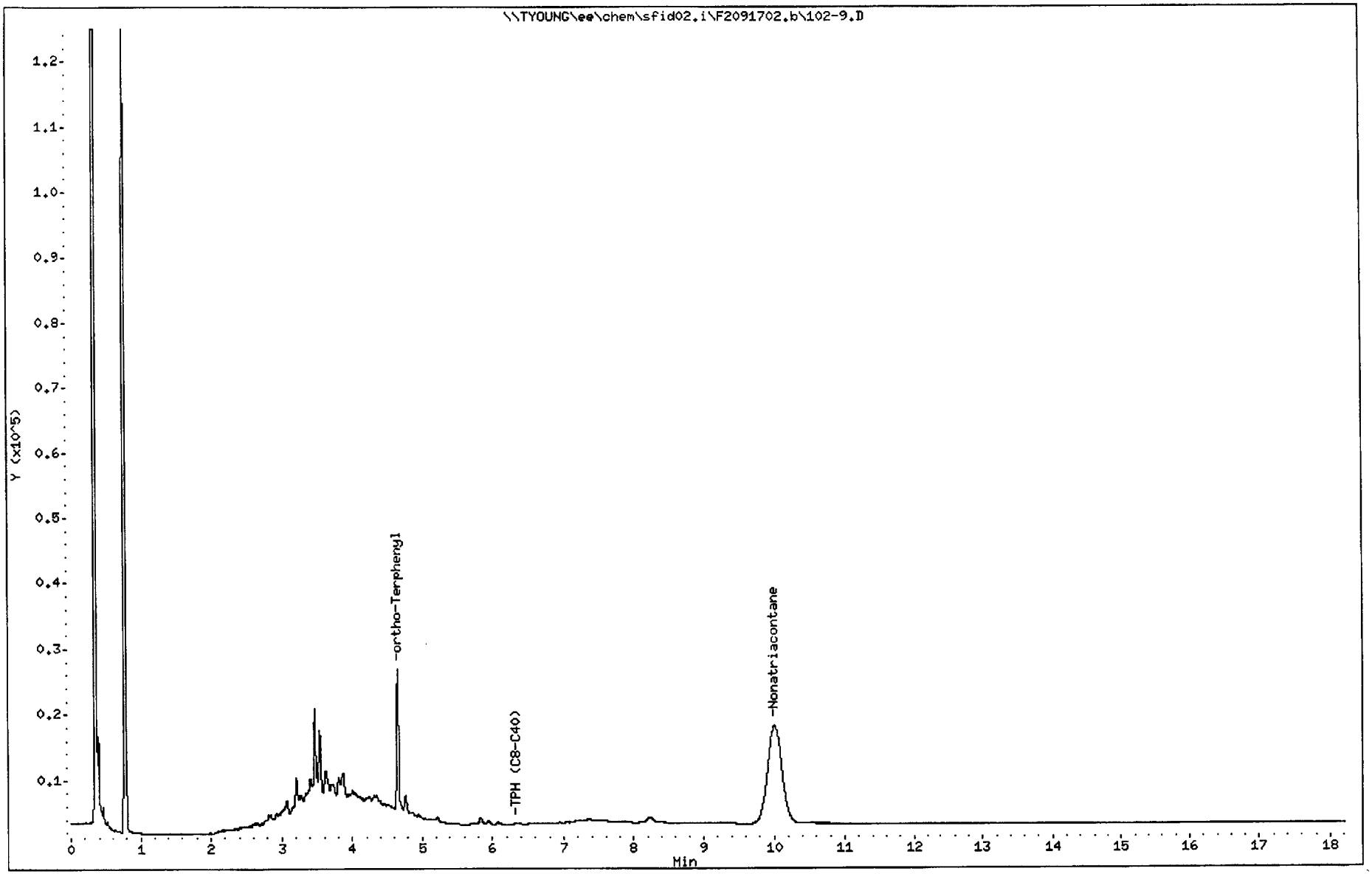
B

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid02.i\F2091702.b\102-9.D
Date : 18-SEP-2002 08:52
Client ID: 11Q30228
Sample Info: 220910209
Volume Injected (uL): 950.0
Column phase: RTX-5

Instrument: sfid02.i
Operator: SCOTT
Column diameter: 0.53



PEL Laboratories, Inc.

Data file : \\TYOUNG\ee\chem\sfid02.i\F2091702.b\102-10MS.D
Lab Smp Id: 220910210 Client Smp ID: 11Q30228MS
Inj Date : 18-SEP-2002 09:21
Operator : SCOTT Inst ID: sfid02.i
Smp Info : 220910210
Misc Info : Florida PRO
Comment :
Method : \\Tyoung\EE\chem\sfid02.i\F2091702.b\FLPROW.m
Meth Date : 23-Sep-2002 17:40 tscott Quant Type: ESTD
Cal Date : 16-SEP-2002 23:40 Cal File: CAL1.D
Als bottle: 1 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.04
Processing Host: SVHPLC3

Concentration Formula: Amt * DF * (1/(Vi/1000)*Vf)

Name	Value	Description
DF	1.000	Dilution Factor
Vi	890.000	Sample Initial Volume
Vf	2.000	Final Extract Volume

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/ml)	FINAL (mg/L)
S 1 TPH (C8-C40)	1.500-11.200			7757495	1.10111	2.5(M)
$ 2 ortho-Terphenyl	4.630	4.610	0.020	147707	0.02323	0.052(RM)
$ 3 Nonatriacontane	9.983	9.850	0.133	716408	0.12557	0.28(RM)

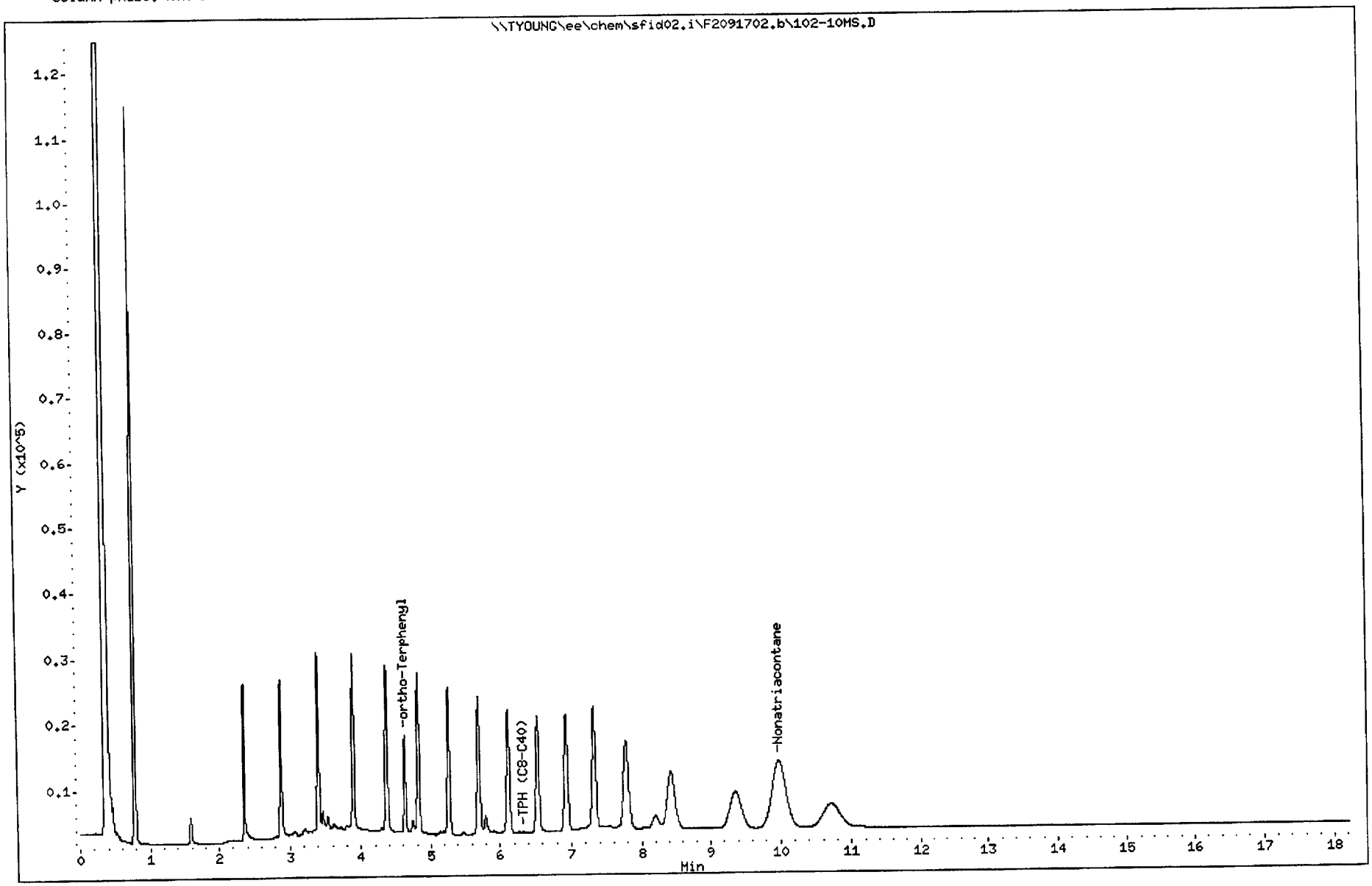
QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid02.i\F2091702.b\102-10MS.D
Date : 18-SEP-2002 09:21
Client ID: 11Q30228MS
Sample Info: 220910210
Volume Injected (uL): 890.0
Column phase: RTX-5

Instrument: sfid02.i

Operator: SCOTT
Column diameter: 0.53



PEL Laboratories, Inc.

Data file : \\TYOUNG\ee\chem\sfid02.i\F2091702.b\102-11SD.D
Lab Smp Id: 220910211 Client Smp ID: 11Q30228MSD
Inj Date : 18-SEP-2002 09:50
Operator : SCOTT Inst ID: sfid02.i
Smp Info : 220910211
Misc Info : Florida PRO
Comment :
Method : \\Tyoung\EE\chem\sfid02.i\F2091702.b\FLPROW.m
Meth Date : 23-Sep-2002 17:40 tscott Quant Type: ESTD
Cal Date : 16-SEP-2002 23:40 Cal File: CAL1.D
Als bottle: 1 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.04
Processing Host: SVHPLC3

Concentration Formula: Amt * DF * (1/(Vi/1000)*Vf)

Name	Value	Description
DF	1.000	Dilution Factor
Vi	960.000	Sample Initial Volume
Vf	2.000	Final Extract Volume

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/ml)	CONCENTRATIONS FINAL (mg/L)
S 1 TPH (C8-C40)	1.500-11.200			9763498	1.42642	3.0(M)
$ 2 ortho-Terphenyl	4.646	4.610	0.036	205589	0.03233	0.067(RM)
$ 3 Nonatriacontane	9.990	9.850	0.140	910836	0.15965	0.33(M)

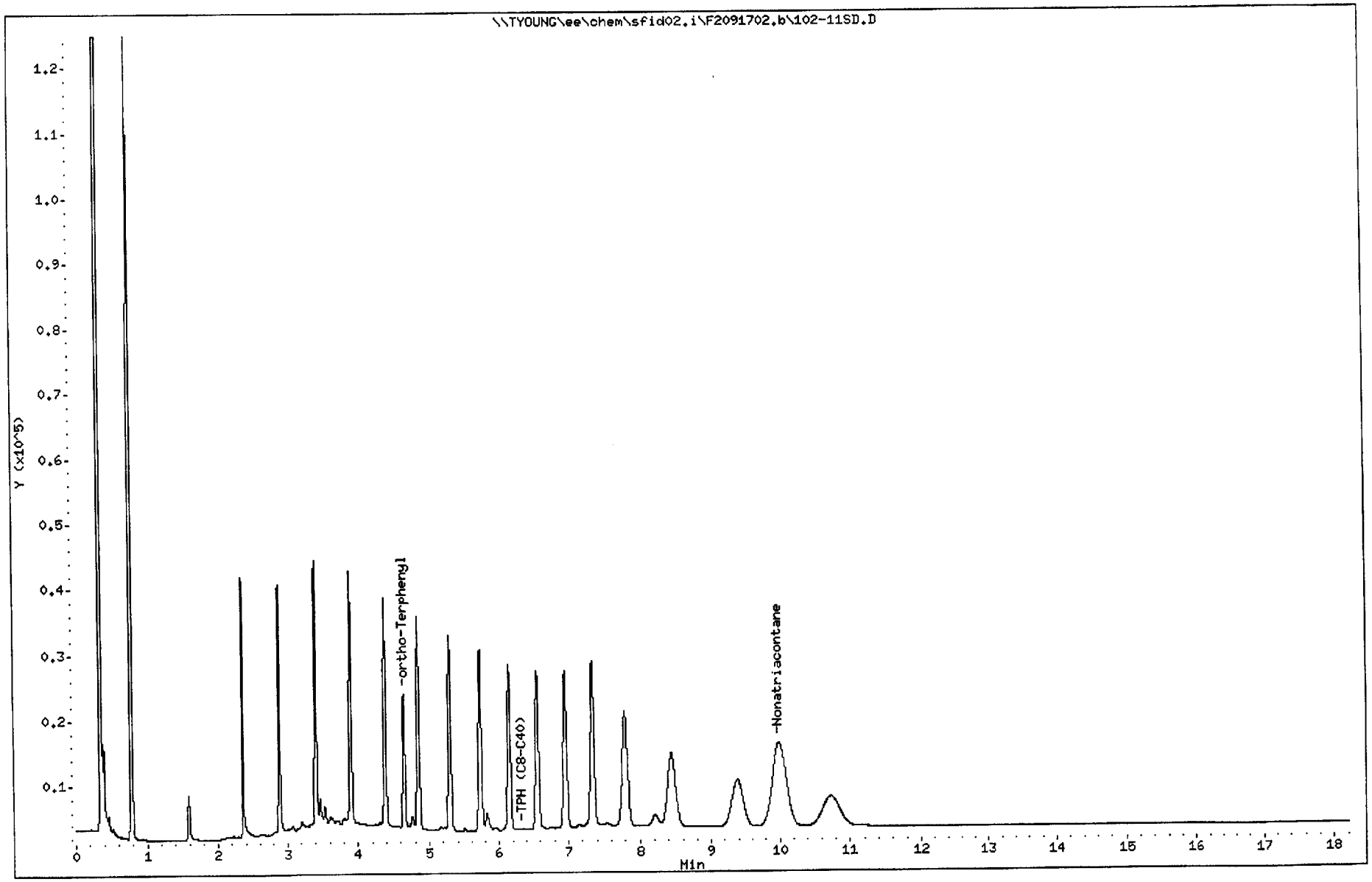
QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid02.i\F2091702.b\102-11SD.D
Date : 18-SEP-2002 09:50
Client ID: 11Q30228MSD
Sample Info: 220910211
Volume Injected (uL): 960.0
Column phase: RTX-5

Instrument: sfid02.i

Operator: SCOTT
Column diameter: 0.53



PEL Laboratories, Inc.

Data file : \\TYOUNG\ee\chem\sfid02.i\F2091702.b\102-12.D
Lab Smp Id: 220910212 Client Smp ID: DUPQ30228
Inj Date : 18-SEP-2002 10:19
Operator : SCOTT Inst ID: sfid02.i
Smp Info : 220910212
Misc Info : Florida PRO
Comment :
Method : \\Tyoung\ee\chem\sfid02.i\F2091702.b\FLPROW.m
Meth Date : 23-Sep-2002 17:40 tscott Quant Type: ESTD
Cal Date : 16-SEP-2002 23:40 Cal File: CAL1.D
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.04
Processing Host: SVHPLC3

Concentration Formula: Amt * DF * (1/(Vi/1000)*Vf)

Name	Value	Description
DF	1.000	Dilution Factor
Vi	920.000	Sample Initial Volume
Vf	2.000	Final Extract Volume

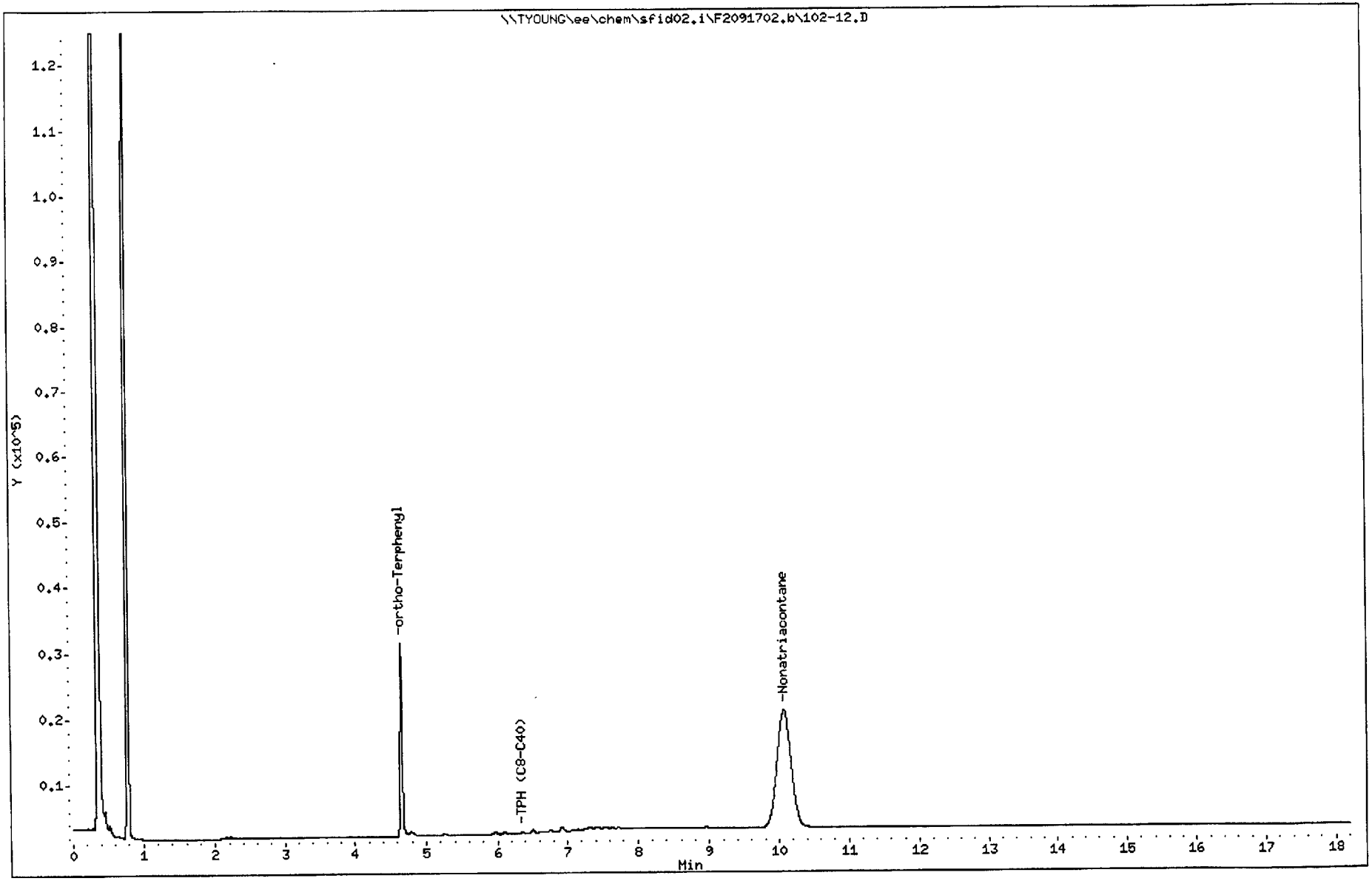
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/ml)	CONCENTRATIONS FINAL (mg/L)
$ 2 ortho-Terphenyl	4.656	4.610	0.046	310590	0.04884	0.11(M)
$ 3 Nonatriacontane	10.080	9.850	0.230	1234379	0.21636	0.47(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid02.i\F2091702.b\102-12.D
Date : 18-SEP-2002 10:19
Client ID: DUPQ30228
Sample Info: 220910212
Volume Injected (uL): 920.0
Column phase: RTX-5

Instrument: sfid02.i
Operator: SCOTT
Column diameter: 0.53



PEL Laboratories, Inc.

Data file : \\TYOUNG\ee\chem\sfid02.i\F2091702.b\102-13.D
Lab Smp Id: 220910213 Client Smp ID: EQBQ30228
Inj Date : 18-SEP-2002 10:48
Operator : SCOTT Inst ID: sfid02.i
Smp Info : 220910213
Misc Info : Florida PRO
Comment :
Method : \\Tyoung\ee\chem\sfid02.i\F2091702.b\FLPROW.m
Meth Date : 23-Sep-2002 17:40 tscott Quant Type: ESTD
Cal Date : 16-SEP-2002 23:40 Cal File: CAL1.D
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.04
Processing Host: SVHPLC3

Concentration Formula: Amt * DF * (1/(Vi/1000)*Vf)

Name	Value	Description
DF	1.000	Dilution Factor
Vi	910.000	Sample Initial Volume
Vf	2.000	Final Extract Volume

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/ml)	CONCENTRATIONS FINAL (mg/L)
$ 2 ortho-Terphenyl	4.650	4.610	0.040	285973	0.04497	0.099(M)
$ 3 Nonatriacontane	9.993	9.850	0.143	1342190	0.23526	0.52(M)

TB

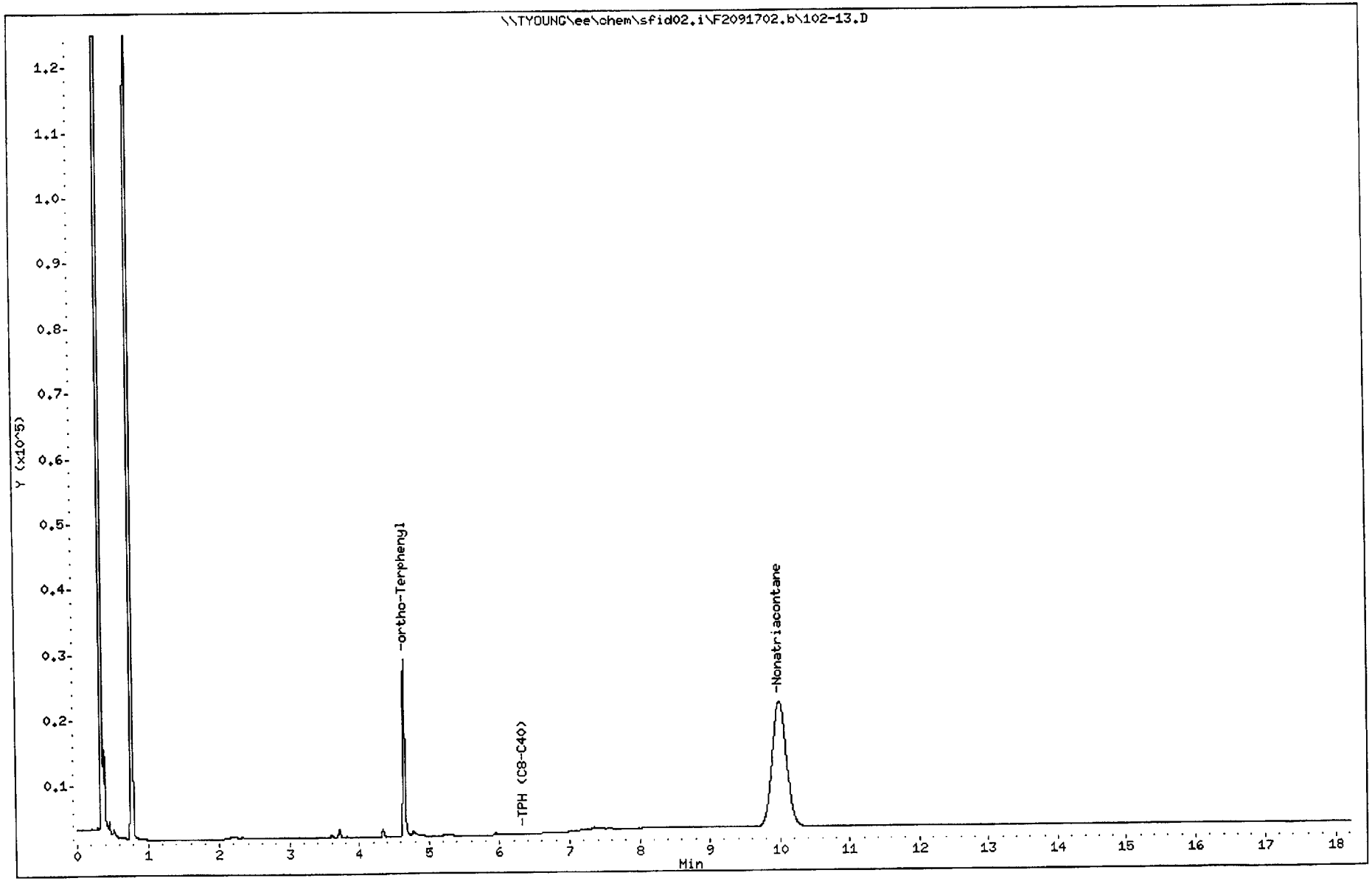
QC Flag Legend

M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid02.i\F2091702.b\102-13.D
Date : 18-SEP-2002 10:48
Client ID: EQBQ30228
Sample Info: 220910213
Volume Injected (uL): 910.0
Column phase: RTX-5

Instrument: sfid02.i

Operator: SCOTT
Column diameter: 0.53



PEL Laboratories, Inc.

Data file : \\TYOUNG\ee\chem\sfid02.i\F2091702.b\102-8R.D
Lab Smp Id: 220910208 Client Smp ID: 10Q30228
Inj Date : 18-SEP-2002 11:18
Operator : SCOTT Inst ID: sfid02.i
Smp Info : 220910208
Misc Info : Florida PRO
Comment :
Method : \\Tyoung\ee\chem\sfid02.i\F2091702.b\FLPROW.m
Meth Date : 23-Sep-2002 17:40 tscott Quant Type: ESTD
Cal Date : 16-SEP-2002 23:40 Cal File: CAL1.D
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.04
Processing Host: SVHPLC3

Concentration Formula: Amt * DF * (1/(Vi/1000)*Vf)

Name	Value	Description
DF	1.000	Dilution Factor
Vi	930.000	Sample Initial Volume
Vf	2.000	Final Extract Volume

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/ml)	CONCENTRATIONS FINAL (mg/L)
$ 2 ortho-Terphenyl	4.663	4.610	0.053	303977	0.04780	0.10(M)
$ 3 Nonatriacontane	10.086	9.850	0.236	1512570	0.26512	0.57(M)

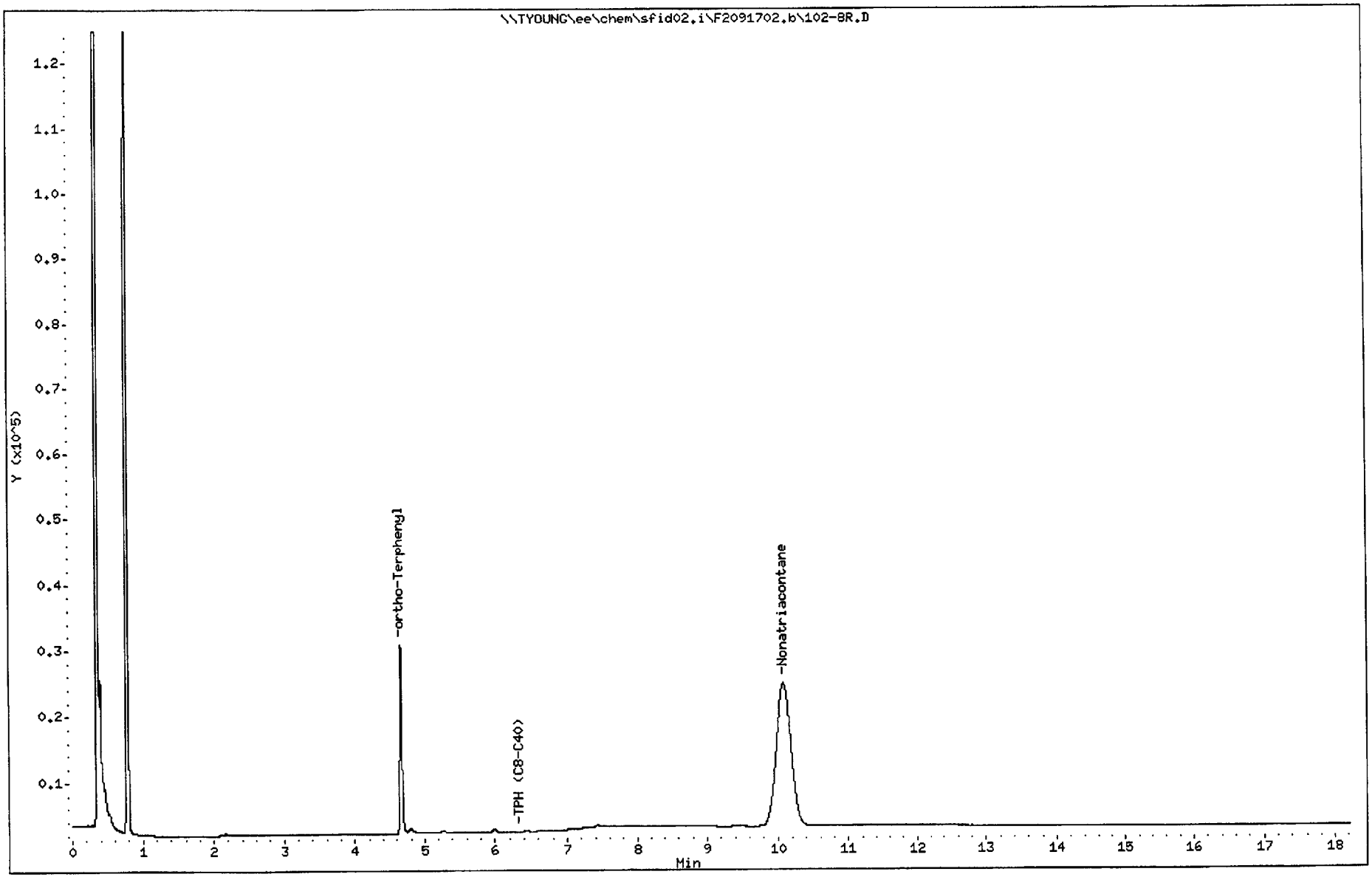
JTS

QC Flag Legend

M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid02.i\F2091702.b\102-8R.D
Date : 18-SEP-2002 11:18
Client ID: 10Q30228
Sample Info: 220910208
Volume Injected (uL): 930.0
Column phase: RTX-5

Instrument: sfid02.i
Operator: SCOTT
Column diameter: 0.53



PEL Laboratories, Inc.

Data file : \\TYOUNG\ee\chem\sfid02.i\F2091702.b\CCV3.D
Lab Smp Id: SV6497 Client Smp ID: CCV3
Inj Date : 18-SEP-2002 11:48
Operator : SCOTT Inst ID: sfid02.i
Smp Info : SV6497
Misc Info : Florida PRO
Comment :
Method : \\Tyoung\ee\chem\sfid02.i\F2091702.b\FLPROW.m
Meth Date : 23-Sep-2002 17:41 tscott Quant Type: ESTD
Cal Date : 16-SEP-2002 23:40 Cal File: CAL1.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.04
Processing Host: SVHPLC3

Concentration Formula: Amt * DF * (1/(Vi/1000)*Vf)

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1000.000	Sample Initial Volume
Vf	2.000	Final Extract Volume

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/ml)	AMOUNTS ON-COL (mg/ml)
S 1 TPH (C8-C40)	1.500-11.200			18605349	2.55000	2.9(M)
$ 2 ortho-Terphenyl	4.660	4.660	0.000	348467	0.05000	0.055(M)
$ 3 Nonatriacontane	10.086	10.086	0.000	2092793	0.30000	0.37(M)

173

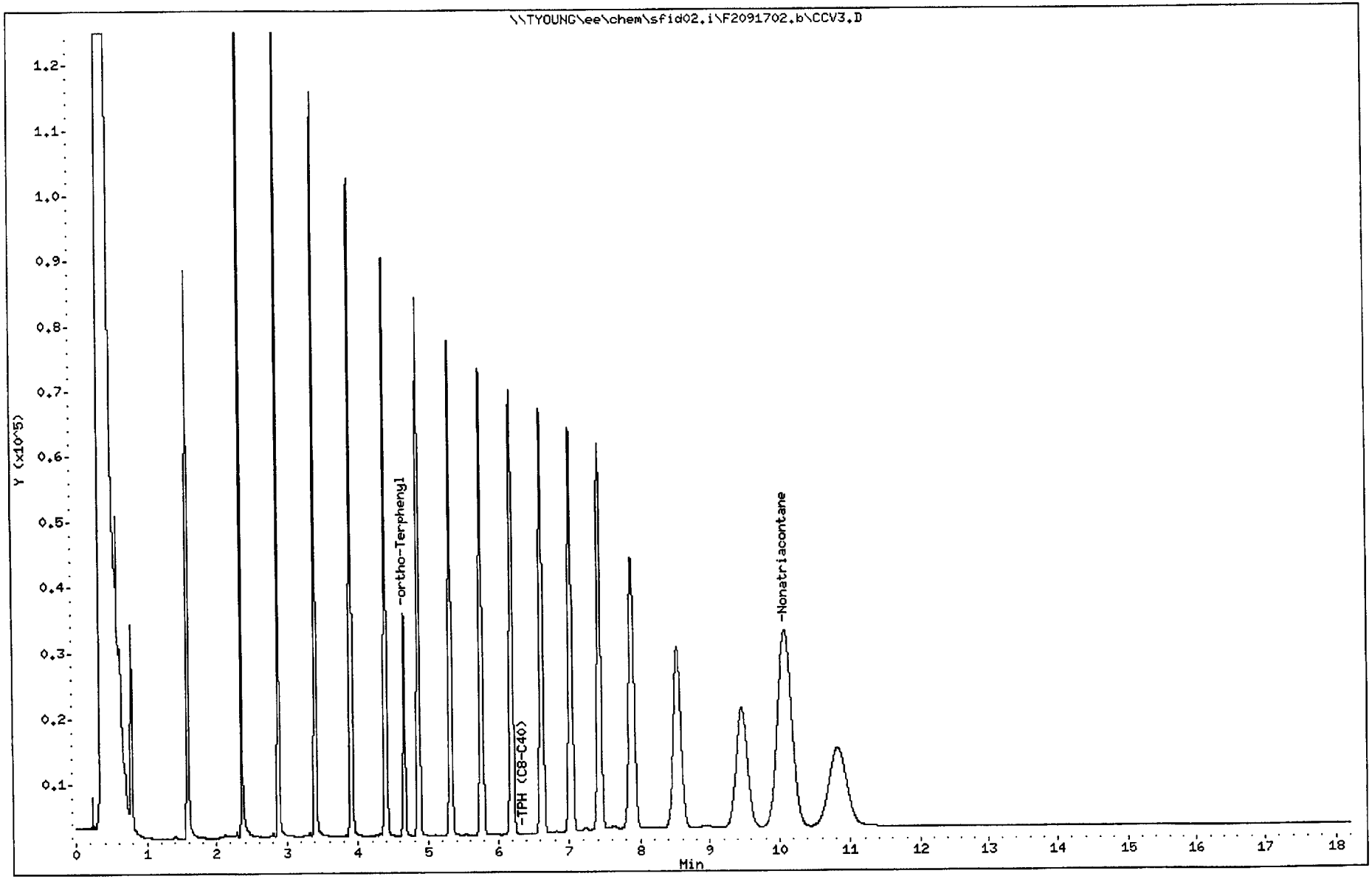
QC Flag Legend

M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid02.i\F2091702.b\CCV3.D
Date : 18-SEP-2002 11:48
Client ID: CCV3
Sample Info: SV6497
Volume Injected (uL): 1000.0
Column phase: RTX-5

Instrument: sfid02.i

Operator: SCOTT
Column diameter: 0.53



PEL Laboratories, Inc.

Data file : \\TYOUNG\ee\chem\sfid02.i\F2092002.b\CCV1.D
Lab Smp Id: sv6515 Client Smp ID: CCV1
Inj Date : 20-SEP-2002 17:33
Operator : SCOTT Inst ID: sfid02.i
Smp Info : sv6515
Misc Info : Florida PRO
Comment :
Method : \\TYOUNG\ee\chem\sfid02.i\F2092002.b\FLPROW.m
Meth Date : 23-Sep-2002 17:41 tscott Quant Type: ESTD
Cal Date : 16-SEP-2002 23:40 Cal File: CAL1.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.04
Processing Host: SVHPLC3

Concentration Formula: Amt * DF * (1/(Vi/1000)*Vf)

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1000.000	Sample Initial Volume
Vf	2.000	Final Extract Volume

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/ml)	AMOUNTS ON-COL (mg/ml)
S 1 TPH (C8-C40)	1.500-11.200			16195288	2.55000	2.5(M)
$ 2 ortho-Terphenyl	4.636	4.636	0.000	342036	0.05000	0.054(M)
$ 3 Nonatriacontane	10.013	10.013	0.000	2039011	0.30000	0.36(M)

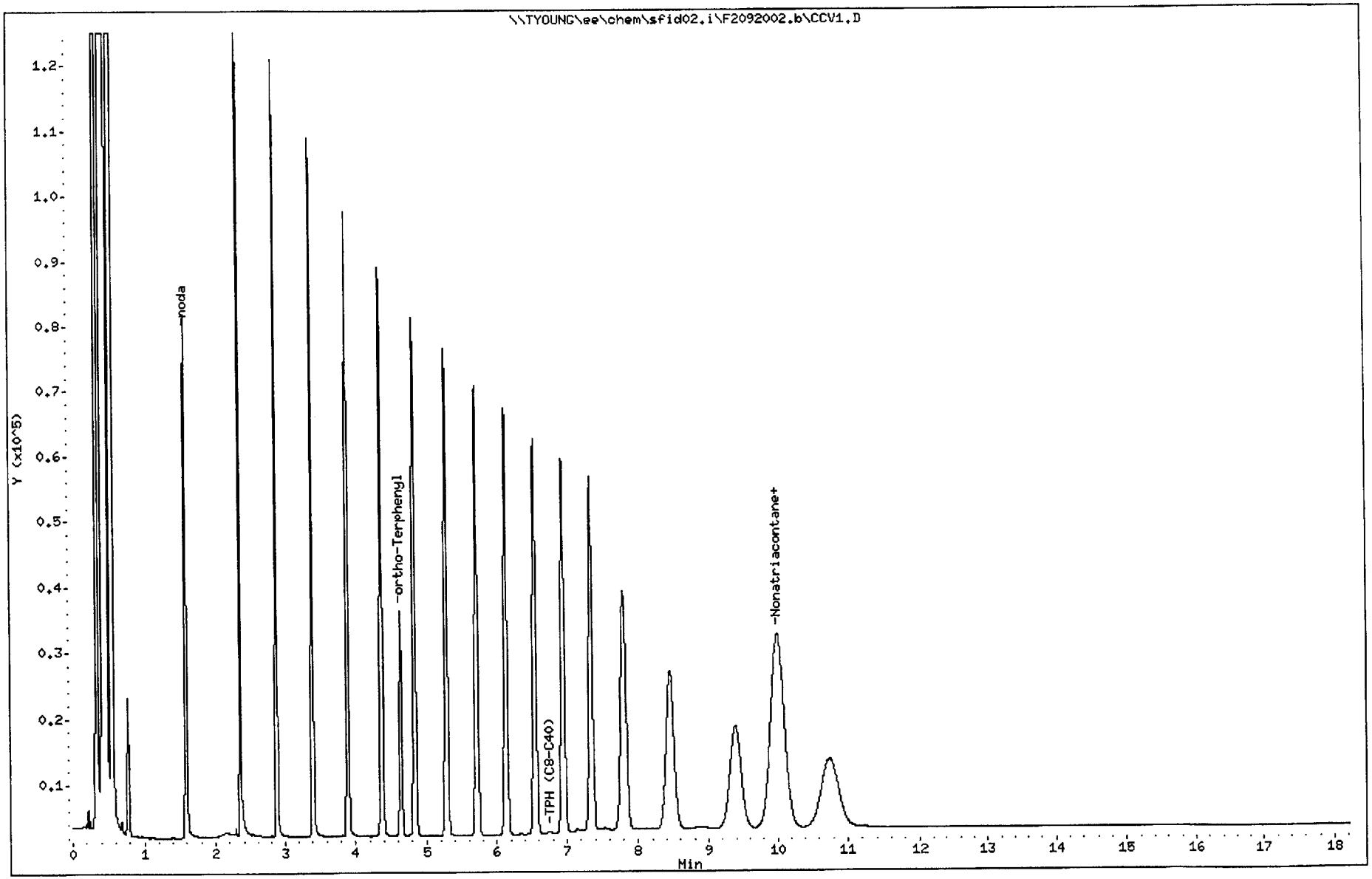
QC Flag Legend

M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid02.i\F2092002.b\CCV1.D
Date : 20-SEP-2002 17:33
Client ID: CCV1
Sample Info: sv6515
Volume Injected (uL): 1000.0
Column phase: RTX-5

Instrument: sfid02.i

Operator: SCOTT
Column diameter: 0.53



PEL Laboratories, Inc.

Data file : \\TYOUNG\ee\chem\sfid02.i\F2092002.b\102-7R.D
Lab Smp Id: 220910207 Client Smp ID: 07Q30228
Inj Date : 20-SEP-2002 18:33
Operator : SCOTT Inst ID: sfid02.i
Smp Info : 220910207
Misc Info : Florida PRO
Comment :
Method : \\TYOUNG\ee\chem\sfid02.i\F2092002.b\FLPROW.m
Meth Date : 23-Sep-2002 17:41 tscott Quant Type: ESTD
Cal Date : 16-SEP-2002 23:40 Cal File: CAL1.D
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.04
Processing Host: SVHPLC3

Concentration Formula: Amt * DF * (1/(Vi/1000)*Vf)

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1000.000	Sample Initial Volume
Vf	2.000	Final Extract Volume

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/ml)	CONCENTRATIONS FINAL (mg/L)
$ 2 ortho-Terphenyl	4.636	4.636	0.000	243466	0.03829	0.076(RM)
$ 3 Nonatriacontane	9.940	10.013	-0.073	1339085	0.23471	0.47(M)

XTB

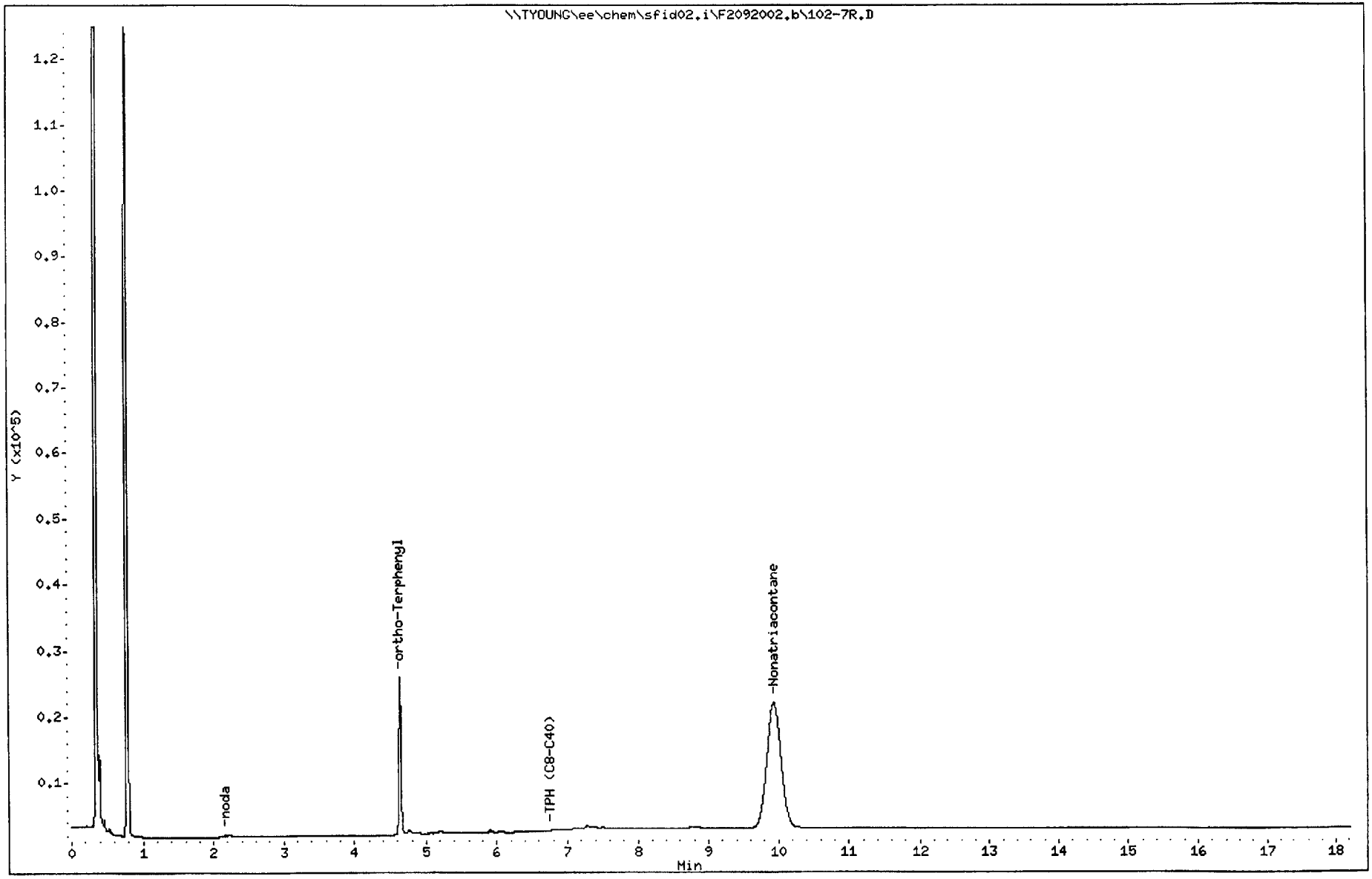
QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid02.i\F2092002.b\102-7R.D
Date : 20-SEP-2002 18:33
Client ID: 07Q30228
Sample Info: 220910207
Volume Injected (uL): 1000.0
Column phase: RTX-5

Instrument: sfid02.i

Operator: SCOTT
Column diameter: 0.53



PEL Laboratories, Inc.

Data file : \\TYOUNG\ee\chem\sfid02.i\F2092002.b\CCV2.D
Lab Smp Id: sv6515 Client Smp ID: CCV2
Inj Date : 20-SEP-2002 19:32
Operator : SCOTT Inst ID: sfid02.i
Smp Info : sv6515
Misc Info : Florida PRO
Comment :
Method : \\TYOUNG\ee\chem\sfid02.i\F2092002.b\FLPROW.m
Meth Date : 23-Sep-2002 17:41 tscott Quant Type: ESTD
Cal Date : 16-SEP-2002 23:40 Cal File: CAL1.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.04
Processing Host: SVHPLC3

Concentration Formula: Amt * DF * (1/(Vi/1000)*Vf)

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1000.000	Sample Initial Volume
Vf	2.000	Final Extract Volume

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/ml)	AMOUNTS ON-COL (mg/ml)
S 1 TPH (C8-C40)	1.500-11.200			15775623	2.55000	2.4(M)
$ 2 ortho-Terphenyl	4.636	4.636	0.000	362325	0.05000	0.057(M)
$ 3 Nonatriacontane	9.986	9.986	0.000	1947933	0.30000	0.34(M)

TB

QC Flag Legend

M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid02.i\F2092002.b\CCV2.D

Date : 20-SEP-2002 19:32

Client ID: CCV2

Instrument: sfid02.i

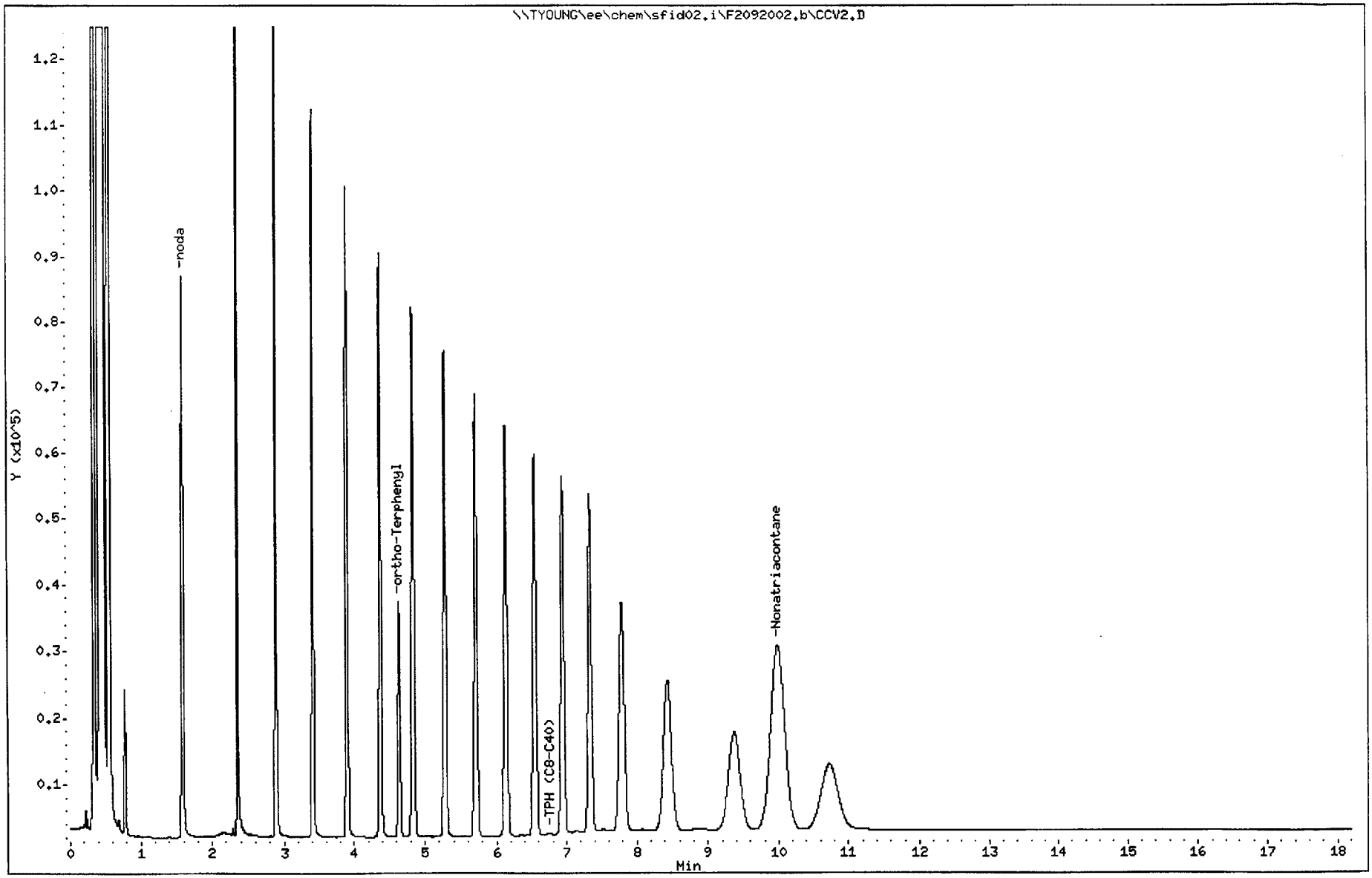
Sample Info: sv6515

Volume Injected (uL): 1000.0

Operator: SCOTT

Column phase: RTX-5

Column diameter: 0.53



2209-102
Raw Data
Inorganics
(Method 6010)

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	STD1-Blank	92302A	SM032002	09/23/02	14:09		X	IR
2	STD3	92302A	SM032002	09/23/02	14:15		X	IR
3	STD2	92302A	SM032002	09/23/02	14:20		X	IR
4	ICV	92302A	SM032002	09/23/02	14:24		Q	CONC
5	ICB	92302A	SM032002	09/23/02	14:29		B	CONC
6	CRI	92302A	SM032002	09/23/02	14:35		Q	CONC
7	ICSA	92302A	SM032002	09/23/02	14:40		Q	CONC
8	ICSAB	92302A	SM032002	09/23/02	14:46		Q	CONC
9	CCV	92302A	SM032002	09/23/02	14:51		S	CONC
10	CCV	92302A	SM032002	09/23/02	14:57		S	CONC
11	CCB	92302A	SM032002	09/23/02	15:02		S	CONC
12	BLKW091702B	92302A	SM032002	09/23/02	15:08		S	CONC
13	LCSW091702B	92302A	SM032002	09/23/02	15:13		S	CONC
14	LCDW091702B	92302A	SM032002	09/23/02	15:19		S	CONC
15	220907202	92302A	SM032002	09/23/02	15:24		S	CONC
16	220907202L	92302A	SM032002	09/23/02	15:30		S	CONC
17	220907202MS	92302A	SM032002	09/23/02	15:35		S	CONC
18	220907202SD	92302A	SM032002	09/23/02	15:40		S	CONC
19	220907202A	92302A	SM032002	09/23/02	15:46		S	CONC
20	220907203	92302A	SM032002	09/23/02	15:51		S	CONC
21	220907204	92302A	SM032002	09/23/02	15:57		S	CONC
22	CCV	92302A	SM032002	09/23/02	16:02		S	CONC
23	CCB	92302A	SM032002	09/23/02	16:07		S	CONC
24	220907205	92302A	SM032002	09/23/02	16:13		S	CONC
25	220907206	92302A	SM032002	09/23/02	16:18		S	CONC
26	220907207	92302A	SM032002	09/23/02	16:24		S	CONC
27	220907208	92302A	SM032002	09/23/02	16:29		S	CONC
28	220907209	92302A	SM032002	09/23/02	16:34		S	CONC
29	220907210	92302A	SM032002	09/23/02	16:40		S	CONC
30	220907211	92302A	SM032002	09/23/02	16:45		S	CONC
31	220910501	92302A	SM032002	09/23/02	16:51		S	CONC
32	220910502	92302A	SM032002	09/23/02	16:56		S	CONC
33	220910503	92302A	SM032002	09/23/02	17:02		S	CONC
34	CCV	92302A	SM032002	09/23/02	17:07		S	CONC
35	CCB	92302A	SM032002	09/23/02	17:12		S	CONC
36	220910504	92302A	SM032002	09/23/02	17:18		S	CONC
37	220910505	92302A	SM032002	09/23/02	17:23		S	CONC
38	CCV	92302A	SM032002	09/23/02	17:29		S	CONC
39	CCB	92302A	SM032002	09/23/02	17:34		S	CONC
40	CCB	92302A	SM032002	09/23/02	17:41		S	CONC
41	BLKW091902B	92302A	SM032002	09/23/02	17:52		S	CONC
42	LCSW091902B	92302A	SM032002	09/23/02	17:57		S	CONC
43	LCDW091902B	92302A	SM032002	09/23/02	18:03		S	CONC
44	220910209	92302A	SM032002	09/23/02	18:08		S	CONC
45	220910209L	92302A	SM032002	09/23/02	18:14		S	CONC
46	220910210MS	92302A	SM032002	09/23/02	18:19		S	CONC
47	220910211SD	92302A	SM032002	09/23/02	18:24		S	CONC
48	220910209A	92302A	SM032002	09/23/02	18:30		S	CONC
49	220910212	92302A	SM032002	09/23/02	18:35		S	CONC
50	220910213	92302A	SM032002	09/23/02	18:41		S	CONC
51	CCV	92302A	SM032002	09/23/02	18:46		S	CONC
52	CCB	92302A	SM032002	09/23/02	18:51		S	CONC
53	220910201	92302A	SM032002	09/23/02	18:57		S	CONC

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
54	220910202	92302A	SM032002	09/23/02	19:02		S	CONC
55	220910203	92302A	SM032002	09/23/02	19:08		S	CONC
56	220910204	92302A	SM032002	09/23/02	19:13		S	CONC
57	220910205	92302A	SM032002	09/23/02	19:19		S	CONC
58	220910206	92302A	SM032002	09/23/02	19:24		S	CONC
59	220910207	92302A	SM032002	09/23/02	19:29		S	CONC
60	220910208	92302A	SM032002	09/23/02	19:35		S	CONC
61	220913201	92302A	SM032002	09/23/02	19:40		S	CONC
62	220913202	92302A	SM032002	09/23/02	19:46		S	CONC
63	CCV	92302A	SM032002	09/23/02	19:51		S	CONC
64	CCB	92302A	SM032002	09/23/02	19:57		S	CONC
65	220913203	92302A	SM032002	09/23/02	20:02		S	CONC
66	220913204	92302A	SM032002	09/23/02	20:07		S	CONC
67	220913205	92302A	SM032002	09/23/02	20:13		S	CONC
68	220913206	92302A	SM032002	09/23/02	20:18		S	CONC
69	220913207	92302A	SM032002	09/23/02	20:24		S	CONC
70	220914304	92302A	SM032002	09/23/02	20:29		S	CONC
71	220914304 RP	92302A	SM032002	09/23/02	20:35		S	CONC
72	220914304 RP DUP	92302A	SM032002	09/23/02	20:40		S	CONC
73	CCV	92302A	SM032002	09/23/02	20:45		S	CONC
74	CCB	92302A	SM032002	09/23/02	20:51		S	CONC
75	CCB	92302A	SM032002	09/23/02	20:56		S	CONC

#	Sample Name	Ag3280	Al3082	As1890	Ba4934	Be3130	Ca3158
1	STD1-Blank	-.01165	.00123	-.00615	.00225	-.10783	.00084
2	STD3	2.08716		2.13043	22.4285	39.7039	
3	STD2		1.21392				5.83843
4	ICV	406.2	39300.	387.9	394.9	404.7	42020.
5	ICB	.2570	72.09	-.7312	.3668	.3798	85.00
6	CRI	10.06	257.5	26.58	10.08	4.094	1079.
7	ICSA	-.2871	244700.	-2.657	-.6653	-.0785	250200.
8	ICSAB	211.0	253500.	94.93	495.5	510.2	259900.
9	CCV	L-.1719	L-162.7	L.4813	L-.0189	L1.986	L-2.202
10	CCV	508.5	123800.	514.5	492.6	512.1	128200.
11	CCB	.0357	65.90	-.5171	.2608	.3215	64.39
12	BLKW091702B	-.5513	8.535	-2.891	.0711	.1395	24.34
13	LCSW091702B	517.3	49940.	488.5	498.8	516.2	52900.
14	LCDW091702B	509.4	49290.	482.6	491.0	509.0	52350.
15	220907202	-.1511	132.9	-2.191	9.600	.4445	382.0
16	220907202L	-.6996	1.489	-1.625	1.889	.2404	58.13
17	220907202MS	513.2	49640.	483.5	503.1	511.0	52880.
18	220907202SD	516.4	49860.	484.2	505.3	512.1	53140.
19	220907202A	500.7	51690.	468.9	495.4	500.4	54560.
20	220907203	-.0289	66.16	-.9720	6.158	.4014	4304.
21	220907204	.0009	105.9	-2.522	3.345	.1930	390.4
22	CCV	512.0	124300.	512.8	494.8	512.0	128000.
23	CCB	-.0054	29.22	-1.135	.2395	.2894	41.91
24	220907205	-.1291	18.99	-.5679	5.920	.0843	23680.
25	220907206	-.2788	8.370	64.47	.0217	.0503	4363.
26	220907207	-.2958	-14.95	-1.038	10.93	.0246	9633.
27	220907208	-.2774	130.3	-1.087	16.75	.0185	11400.
28	220907209	-.1539	-6.890	17.85	1.217	.0362	4371.
29	220907210	-.2251	4.868	.6173	90.55	-.0065	108400.
30	220907211	-.1112	195.0	20.12	2.109	.1091	4151.
31	220910501	-.5170	-24.17	-.0788	-.0357	.0726	12.11
32	220910502	.3434	169.2	4.705	8.722	-.2708	240400.
33	220910503	-.1034	-20.71	-.5310	.0175	.1200	86.25
34	CCV	518.1	126200.	523.6	499.7	520.3	129900.
35	CCB	-.2135	17.15	-1.656	.1397	.3208	34.62
36	220910504	.0744	115.7	4.434	11.23	-.1850	222000.
37	220910505	-.1477	69.67	1.796	11.03	-.1702	226400.
38	CCV	511.5	125000.	520.2	491.9	519.7	130000.
39	CCB	-.0825	17.36	-.8467	.1821	.3416	46.17
40	CCB	-.4696	-22.34	-1.824	.0117	.1776	-10.90
41	BLKW091902B	-.4348	-31.82	-2.432	-.0278	.1740	-.3550
42	LCSW091902B	511.7	49340.	486.5	492.4	514.3	52380.
43	LCDW091902B	510.6	49190.	484.1	492.2	511.9	52060.
44	220910209	-.2328	63390.	2.928	286.0	2.767	101600.
45	220910209L	-.0947	12230.	-.7565	56.96	.6845	20400.
46	220910210MS	519.9	H145500.	488.2	H799.3	518.8	H151300.
47	220910211SD	521.2	H147900.	489.0	H805.2	522.5	H152400.
48	220910209A	505.7	H109700.	482.6	H766.5	509.6	H145900.
49	220910212	.3889	696.6	-1.814	97.04	.6651	25120.
50	220910213	.1315	6.152	-1.197	.1342	.1576	29.07
51	CCV	506.5	123100.	514.9	491.5	509.8	126500
52	CCB	.4512	33.00	-1.831	.1779	.3528	37.52
53	220910201	.1839	56.81	3.896	51.93	.1380	146000

#	Sample Name	Ag3280	Al3082	As1890	Ba4934	Be3130	Ca3158
54	220910202	.1117	940.5	.4677	36.19	.1145	143700.
55	220910203	-.7214	16010.	3.933	117.7	3.282	86800.
56	220910204	.1454	884.7	-2.228	112.6	.0059	66540.
57	220910205	-.0400	10.76	-1.780	31.39	-.0061	91000.
58	220910206	-.1907	666.1	-.6980	17.13	2.235	85330.
59	220910207	.0190	1139.	-1.495	32.90	.1468	47950.
60	220910208	-.0908	642.7	-.9631	98.49	.4720	25110.
61	220913201	.3765	-4.522	-.6195	69.02	.1696	37250.
62	220913202	.3622	1149.	-.9909	48.46	.0621	95460.
63	CCV	512.3	124200.	518.1	499.5	512.5	125400.
64	CCB	.3502	32.14	-1.129	.1926	.3179	42.05
65	220913203	.3451	75.26	-1.587	13.38	.0834	31820.
66	220913204	.2304	24.23	-1.304	53.71	.2150	4489.
67	220913205	.4968	188.3	-.3345	15.31	.0538	11380.
68	220913206	.0716	184.4	-.9683	15.08	.0792	11330.
69	220913207	-.0254	7.699	.1217	68.85	.1445	5889.
70	220914304	.1306	6859.	106.4	17.60	.2465	8616.
71	220914304 RP	.7573	6047.	151.7	19.52	.2012	18460.
72	220914304 RP DUP	.3607	6291.	158.5	20.40	.2584	14860.
73	CCV	512.5	124000.	517.2	500.6	514.0	125500.
74	CCB	.4867	36.83	-1.212	.1850	.2868	40.20
75	CCB	.4024	5.784	-1.905	.0069	.0778	-10.03

#	Sample Name	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
1	STD1-Blank	.00055	-.00238	.00186	.01034	.0002	-.06051
2	STD3	12.8232	2.7882	3.06365	2.39614		
3	STD2					8.73253	20.1842
4	ICV	402.2	399.3	395.0	396.7	41550.	37510.
5	ICB	.3318	.4449	.1709	.1953	47.78	6.639
6	CRI	5.140	10.06	10.04	9.309	80.24	814.5
7	ICSA	-.2677	1.400	-.1672	-2.445	224600.	-336.9
8	ICSAB	988.8	486.9	487.5	512.1	231300.	-292.9
9	CCV	L.0248	L.0628	L-.5353	L-4.441	L31.36	L672.5
10	CCV	494.7	487.2	489.6	500.1	50730.	121700.
11	CCB	.3426	.0162	.3316	-.0007	42.46	-93.09
12	BLKW091702B	.0761	-.0411	.1290	-.2647	9.461	-84.60
13	LCSW091702B	508.3	507.5	500.4	505.8	52580.	48020.
14	LCDW091702B	498.9	499.3	492.7	499.2	51860.	47340.
15	220907202	.2189	.3581	.8915	.7400	25.31	243.8
16	220907202L	.1922	.1044	.1998	.4093	5.240	-60.35
17	220907202MS	499.0	503.1	496.3	502.3	52090.	48170.
18	220907202SD	500.9	504.5	498.3	504.6	52230.	48740.
19	220907202A	489.7	492.3	486.2	494.2	53840.	49930.
20	220907203	.6888	1.225	1.545	.9827	28.50	756.2
21	220907204	.2259	-.1115	.8224	.4278	71.55	-53.18
22	CCV	491.9	486.7	489.5	504.2	50740.	122600.
23	CCB	.2955	.1705	.2032	.1786	19.82	1.643
24	220907205	.1691	-.1403	.0660	.1271	-6.396	193.3
25	220907206	-.6707	-1.427	-.2389	-1.460	99970.	-51.50
26	220907207	-.0171	-.1803	-.1212	.0089	65.85	2716.
27	220907208	.2412	-.1800	.1973	-.0730	62.15	864.0
28	220907209	-.2928	-1.363	-.4635	-.9858	58060.	84.10

#	Sample Name	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
29	220907210	-.1760	-.0601	.3149	-.4114	27350.	5200.
30	220907211	-.3249	.0744	-.1305	-.1907	36010.	973.2
31	220910501	-.0418	-.2637	-.0653	.1302	15.16	L-245.4
32	220910502	.1978	1.047	2.132	4.184	664.0	198500.
33	220910503	.0591	-.0845	-.0658	-.0508	11.39	L-188.3
34	CCV	498.9	493.5	497.2	508.9	51490.	124300.
35	CCB	.1550	.0799	-.0048	-.1269	22.34	-96.71
36	220910504	.1560	1.169	.6592	5.496	440.6	H335900.
37	220910505	-.0914	.4142	.5840	2.174	341.6	H337300.
38	CCV	501.8	493.0	495.8	499.3	51480.	122200.
39	CCB	.1772	.0834	.1928	-.2693	13.11	-121.6
40	CCB	-.0525	-.1125	-.3847	-.5590	4.222	-211.9
41	BLKW091902B	.0682	-.2023	-.1396	-.2283	-5.655	-217.0
42	LCSW091902B	506.7	504.8	498.6	497.9	52190.	47270.
43	LCDW091902B	502.8	502.0	495.6	497.3	51890.	47070.
44	220910209	.0608	1.846	55.22	4.498	14520.	3172.
45	220910209L	-.0212	.4653	10.87	.6560	2917.	580.2
46	220910210MS	500.2	504.0	562.5	517.8	H70020.	53920.
47	220910211SD	509.1	508.9	568.7	517.8	H70900.	54150.
48	220910209A	498.7	497.1	541.5	506.4	H64360.	51640.
49	220910212	.0674	2.780	.5585	6.828	2838.	902.9
50	220910213	.0240	-.0898	-.0653	-.8532	7.406	-95.39
51	CCV	494.4	485.0	487.6	497.3	50570.	120500.
52	CCB	.1331	.1910	.2124	-.3944	15.19	-107.7
53	220910201	.0711	.1420	.3964	-.1876	3074.	5190.
54	220910202	-.1526	-.1507	2.194	.3417	250.9	6031.
55	220910203	.0744	11.85	20.04	4.674	13080.	5450.
56	220910204	-.1189	-.4613	.6108	-1.069	197.3	4918.
57	220910205	-.0398	-.4051	.0202	.0206	440.7	12260.
58	220910206	.0109	5.405	.1125	-.6262	50.54	2903.
59	220910207	-.0800	-.0410	1.852	.8975	653.8	1241.
60	220910208	-.0648	2.933	.6924	6.990	2731.	855.1
61	220913201	-.0717	2.267	.7093	1.220	5020.	3759.
62	220913202	-.1404	3.226	7.201	1.089	3654.	5532.
63	CCV	496.1	487.4	490.0	503.3	50870.	121600.
64	CCB	.1866	.4981	.1169	-.6450	16.23	-34.63
65	220913203	.1280	26.16	.1141	2.065	435.8	4766.
66	220913204	1.460	5.923	1198.	2.177	-12.11	1456.
67	220913205	.2390	7.142	472.6	.8480	210.7	3527.
68	220913206	.2166	6.955	461.8	-.2406	201.3	3516.
69	220913207	.1595	2.265	940.6	2.142	-12.55	1689.
70	220914304	L-1.246	-.4253	10.68	-.9997	103400.	27.64
71	220914304 RP	L-1.899	-1.953	8.761	6.034	141800.	2554.
72	220914304 RP DUP	L-1.796	-1.814	8.937	6.640	146100.	2268.
73	CCV	497.1	488.2	490.1	502.2	50760.	121300.
74	CCB	.0772	.2133	.1437	-.8512	35.81	-76.62
75	CCB	-.0035	-.2798	-.1206	-1.351	6.804	-135.2

#	Sample Name	Mg2790	Mn2576	Mo2020	Na_	Ni2316	2203-1
1	STD1-Blank	.00239	.0003	.00159	.00041	-.00272	.00697
2	STD3		1.54847	1.03174	6.18487	3.53472	3.68149
3	STD2	65.1165			2.48381		
4	ICV	39590.	400.4	409.7	40750.	383.2	399.0
5	ICB	82.02	.3635	-.3071	118.9	.4247	1.707
6	CRI	1014.	10.23	15.30	1085.	19.74	24.69
7	ICSA	250900.	1.694	.6673	43.05	-1.519	5.870
8	ICSAB	260100.	497.2	528.3	-15.35	946.2	55.48
9	CCV	L16.30	L-.0644	L-.6044	L-82.18	L.0627	-1.011
10	CCV	124000.	491.7	512.5	127600.	477.0	508.7
11	CCB	72.13	.2872	.1261	58.30	.4073	1.074
12	BLKW091702B	16.10	-.0738	.4898	-4.493	.2976	-1.767
13	LCSW091702B	50270.	507.7	521.2	51480.	486.1	497.0
14	LCDW091702B	49590.	500.4	513.6	50690.	479.1	489.0
15	220907202	443.8	4.729	.4561	2513.	.5543	.9503
16	220907202L	85.12	.8729	-.1138	532.9	-.0990	.9608
17	220907202MS	50140.	507.9	517.1	53250.	481.6	491.3
18	220907202SD	50370.	510.0	519.3	53620.	483.5	493.4
19	220907202A	51840.	497.9	507.0	55040.	470.0	479.6
20	220907203	1167.	13.75	.7420	6693.	1.622	1.991
21	220907204	377.3	14.70	.1126	1034.	.5481	1.500
22	CCV	123900.	491.8	513.6	128300.	476.3	507.4
23	CCB	47.35	.1363	-.1081	82.28	.2445	.3257
24	220907205	7049.	1.419	.9275	2714.	-.4400	1.319
25	220907206	3406.	8.109	3.535	20360.	-2.845	-13.22
26	220907207	2378.	10.76	.3569	26480.	-.2836	.3626
27	220907208	481.2	2.246	.3549	702.9	-.3316	-2.137
28	220907209	3721.	47.43	3.567	19440.	-1.866	-10.93
29	220907210	3027.	1022.	.2034	4283.	-.8182	-2.697
30	220907211	4640.	71.61	1.288	12780.	-.7658	-4.700
31	220910501	-6.412	.1267	.2363	-8.890	-.4862	2.708
32	220910502	389800.	88.11	10.69	H2729e3	3.480	3.157
33	220910503	107.8	.0625	.2067	1044.	-.0940	-.4460
34	CCV	125900.	499.7	522.1	130100.	484.1	513.5
35	CCB	48.54	.1588	-.0693	151.3	.0671	-1.065
36	220910504	H659400.	14.31	8.398	H4138e3	1.835	5.378
37	220910505	H676000.	12.62	8.855	H4144e3	.0480	-.4097
38	CCV	126200.	497.3	519.3	130700.	485.0	520.4
39	CCB	92.75	.0712	-.2109	H599.1	.3521	-.7019
40	CCB	2.934	-.0518	-.3980	104.6	-.0380	-.5418
41	BLKW091902B	-8.364	-.0533	-.2897	8.250	-.0549	.1467
42	LCSW091902B	49790.	504.7	518.4	51190.	484.9	498.1
43	LCDW091902B	49470.	502.7	516.0	50940.	481.8	493.3
44	220910209	5583.	91.26	5.411	5221.	10.47	39.50
45	220910209L	1116.	18.17	.8878	1060.	2.399	8.653
46	220910210MS	55590.	599.0	513.1	57580.	495.5	535.8
47	220910211SD	56410.	H603.0	516.2	58140.	499.8	543.4
48	220910209A	53970.	582.7	515.5	56350.	482.4	524.6
49	220910212	6376.	43.65	.1286	6613.	6.788	-.1552
50	220910213	2.212	.1251	-.2358	.8027	-.1728	-.9231
51	CCV	123300.	489.4	511.2	128800.	476.5	509.8
52	CCB	51.05	.1700	.0155	67.48	-.5597	.1389
53	220910201	6192.	217.1	8.546	3736.	1.745	-1.645

#	Sample Name	Mg2790	Mn2576	Mo2020	Na_	Ni2316	2203-1
54	220910202	8237.	196.5	3.641	3858.	.8155	.8806
55	220910203	6114.	64.67	5.204	7850.	18.26	32.27
56	220910204	5299.	1.189	2.694	8252.	.1891	.3818
57	220910205	5153.	6.982	27.00	13180.	-.1621	1.356
58	220910206	21160.	58.44	.0365	7936.	11.95	.9611
59	220910207	3322.	30.95	.1773	4324.	1.093	2.625
60	220910208	6359.	43.88	.3435	6576.	6.924	1.356
61	220913201	10430.	191.0	.1199	20670.	4.938	20.07
62	220913202	13410.	327.9	.5017	58860.	11.30	.0828
63	CCV	123500.	492.3	512.7	130600.	475.9	511.8
64	CCB	49.01	.1894	.5620	68.90	.0963	.2334
65	220913203	10930.	1779.	-.0407	111600.	4.184	6.610
66	220913204	2295.	367.9	.5531	8645.	.6358	3.747
67	220913205	4540.	3318.	20.28	212800.	2.436	-.4424
68	220913206	4526.	3317.	20.09	213400.	2.481	-.1078
69	220913207	2592.	159.9	.0891	13010.	.4875	-.5793
70	220914304	380.0	24.74	64.56	133.0	-1.018	-6.026
71	220914304 RP	374.2	20.51	88.31	234.3	-2.811	-14.14
72	220914304 RP DUP	398.9	20.95	92.40	167.2	-3.162	-10.74
73	CCV	123700.	492.4	512.3	130600.	478.8	513.0
74	CCB	53.64	.1462	.4275	66.30	-.3389	1.016
75	CCB	6.281	-.0343	-.1437	4.639	-.3299	-.4453

#	Sample Name	2203-2	Pb2203	Se1960	Sb2068	2068-1	2068-2
1	STD1-Blank	.00546	.00022	.00022	.00022	-.00055	.00577
2	STD3	5.60243				3.85694	3.17077
3	STD2						
4	ICV	392.4	396.8	406.1	411.9	411.0	413.9
5	ICB	-.4581	.9865	-.6287	-.1498	-.5180	.5871
6	CRI	25.54	24.97	30.62	52.72	53.44	51.27
7	ICSA	-2.216	3.177	1.926	1.655	4.500	-4.044
8	ICSAB	45.19	52.05	54.56	634.7	641.6	620.9
9	CCV	-.3996	L-.8070	L3.378	L.3167	.8568	-.7655
10	CCV	492.1	503.2	529.0	526.5	528.9	521.6
11	CCB	-1.704	.1491	.6585	.5230	.8394	-.1113
12	BLKW091702B	-.7344	-1.423	1.351	.2046	.8186	-1.026
13	LCSW091702B	501.9	498.6	516.0	527.0	529.6	521.7
14	LCDW091702B	494.3	490.7	506.1	519.3	521.5	514.8
15	220907202	-.0094	.6309	2.279	1.042	1.427	.2696
16	220907202L	-1.485	.1467	.9111	.5608	.6028	.4760
17	220907202MS	496.8	493.2	506.8	521.7	523.6	517.8
18	220907202SD	498.4	495.1	510.7	525.3	525.4	525.2
19	220907202A	483.0	480.8	498.4	499.2	499.5	498.5
20	220907203	-1.582	.8011	2.672	-.1274	-.5816	.7817
21	220907204	-1.445	.5194	.5447	-.2742	-.5583	.2942
22	CCV	492.8	502.5	527.4	527.9	530.1	523.4
23	CCB	.6010	.4176	.5804	1.076	2.351	-1.478
24	220907205	-1.013	.5429	3.001	-.5480	-.7875	-.0690
25	220907206	6.138	L-6.775	5.468	2.721	3.617	.9245
26	220907207	-1.486	-.2527	1.495	-.7926	-1.644	.9118
27	220907208	-.2050	-1.493	-1.329	.4945	1.461	-1.443
28	220907209	3.383	L-6.163	2.631	-.0031	.9506	-1.914

#	Sample Name	2203-2	Pb2203	Se1960	Sb2068	2068-1	2068-2
29	220907210	1.088	-1.436	2.579	1.852	3.235	-.9186
30	220907211	2.162	-2.414	2.974	-1.035	-1.181	-.7420
31	220910501	-1.648	1.258	2.255	-1.367	-2.274	.4486
32	220910502	-2.332	1.329	4.666	-2.044	-2.974	-.1838
33	220910503	-1.519	-.8032	1.874	-.2563	-.0280	-.7141
34	CCV	500.4	509.1	537.6	536.6	539.9	530.0
35	CCB	.4481	-.5611	1.642	-.4317	-.2762	-.7438
36	220910504	-4.704	2.021	5.322	-2.264	-5.247	3.712
37	220910505	-1.244	-.6871	2.293	-.6921	-1.625	1.176
38	CCV	499.1	513.3	533.8	527.8	530.5	522.5
39	CCB	-.0892	-.4976	.0068	-.4922	-.0338	-1.411
40	CCB	-.2688	-.4507	-.0827	.6170	1.131	-.4129
41	BLKW091902B	-.1657	.0429	1.146	2.032	2.527	1.041
42	LCSW091902B	501.1	499.1	512.8	521.1	523.5	516.3
43	LCDW091902B	499.3	495.3	510.2	518.2	521.4	511.8
44	220910209	26.16	35.06	6.867	1.577	2.058	.6136
45	220910209L	4.783	7.364	3.016	1.061	1.733	-.2869
46	220910210MS	521.5	531.1	515.6	L376.2	377.9	372.8
47	220910211SD	525.1	537.3	520.0	L364.7	366.6	361.0
48	220910209A	515.8	521.7	513.9	511.3	516.3	501.4
49	220910212	.2073	-.0343	.9505	.6308	.7572	.3769
50	220910213	-.5579	-.8013	.1196	.8815	1.257	.1284
51	CCV	490.7	503.5	528.1	522.3	524.9	517.1
52	CCB	-1.290	-.3366	.1846	1.018	1.165	.7232
53	220910201	-.3730	-1.221	1.282	.3368	.4824	.0446
54	220910202	-.2429	.5067	2.126	-.1502	-.3775	.3045
55	220910203	29.40	31.31	5.169	.5932	-.0841	1.949
56	220910204	-.0618	.2343	3.433	-.5793	-.4462	-.8464
57	220910205	-1.015	.5668	1.488	.4975	.6225	.2466
58	220910206	.3355	.7530	.6767	.4207	1.064	-.8683
59	220910207	1.802	2.351	1.130	1.509	2.028	.4684
60	220910208	-.2219	.8305	-.0245	-.8411	-1.002	-.5190
61	220913201	19.58	19.91	2.307	-1.663	-2.625	.2655
62	220913202	1.512	.5589	.9482	1.810	3.155	-.8837
63	CCV	492.6	505.4	530.8	525.7	528.6	519.9
64	CCB	-.9549	-.1621	.4575	.0375	.0132	.0854
65	220913203	7.198	6.806	.7008	-.5303	.1964	-1.987
66	220913204	.4803	2.659	1.388	1.904	2.714	.2821
67	220913205	-.5704	-.4848	1.680	.4395	.6033	.1108
68	220913206	.7443	.1762	.1878	1.455	1.789	.7863
69	220913207	-.4440	-.5340	.5809	2.220	2.601	1.456
70	220914304	11.78	-.0976	8.526	2.254	2.968	.8256
71	220914304 RP	13.61	-4.901	4.304	.7274	1.063	.0539
72	220914304 RP DUP	14.63	-2.290	4.902	1.319	2.364	-.7761
73	CCV	496.2	507.4	532.7	528.3	532.5	519.7
74	CCB	-.9420	.3642	.4305	-1.250	-2.409	1.073
75	CCB	-1.082	-.6571	1.807	-.7786	-.6002	-1.136

#	Sample Name	1960-1	1960-2	Sn1899	Tl1908	V_2924	Zn2138
1	STD1-Blank	-.01462	.01478	.00174	-.0082	-.00009	.0055
2	STD3	.95162	1.49968	.75557	.68998	.51687	1.90478
3	STD2						
4	ICV	406.5	405.3	398.8	411.4	409.0	407.0
5	ICB	.9560	-3.803	-1.775	3.649	.5091	.3062
6	CRI	31.29	29.29	-2.085	63.05	10.37	19.24
7	ICSA	-1.494	8.775	-3.319	8.658	.3587	-.6838
8	ICSAB	50.63	62.43	516.8	110.5	512.3	1032.
9	CCV	7.859	-5.598	L-2.359	L5.572	L.3368	L-2.951
10	CCV	526.3	534.4	511.0	510.5	501.1	520.0
11	CCB	1.775	-1.578	-1.213	2.830	.5797	-1.197
12	BLKW091702B	3.903	-3.760	-1.365	1.388	.1273	-2.226
13	LCSW091702B	513.4	521.2	508.4	522.8	519.6	515.9
14	LCDW091702B	503.9	510.5	501.7	517.1	510.8	507.7
15	220907202	3.430	-.0285	-.8824	4.069	.4908	.6591
16	220907202L	3.609	-4.493	-2.339	3.195	.2416	-1.121
17	220907202MS	505.9	508.8	505.8	513.6	514.7	511.9
18	220907202SD	509.5	513.0	510.0	519.1	516.4	519.1
19	220907202A	497.6	500.0	496.2	515.8	504.7	503.5
20	220907203	4.182	-.3530	-1.221	3.097	1.674	11.84
21	220907204	2.202	-2.775	-.7885	-1.934	.6712	-.9535
22	CCV	524.6	532.9	508.7	509.4	501.9	521.2
23	CCB	2.271	-2.807	-1.138	2.372	.5809	-.6098
24	220907205	4.649	-.3001	-.4026	2.061	4.049	2.979
25	220907206	5.285	5.833	-1.761	6.408	.6314	-2.286
26	220907207	2.267	-.0503	-1.358	.4386	.9847	-1.493
27	220907208	-1.810	-.3668	-2.159	.7725	1.577	199.2
28	220907209	3.120	1.651	-1.198	4.349	.7290	2.214
29	220907210	3.197	1.341	-.7816	3.235	.7569	-1.216
30	220907211	3.359	2.203	-.6637	2.192	.4205	-.0837
31	220910501	4.003	-1.247	-2.510	.1220	-.0311	4.461
32	220910502	8.532	-3.078	-1.958	3.088	5.422	-5.804
33	220910503	2.956	-.2921	-1.288	.0181	.4003	3.832
34	CCV	536.1	540.7	520.2	514.3	507.8	525.7
35	CCB	4.365	-3.814	-3.029	4.926	.3354	-1.183
36	220910504	10.89	-5.831	-.3881	3.283	2.299	L-31.54
37	220910505	4.611	-2.350	1.930	1.504	2.150	L-30.12
38	CCV	532.6	536.2	520.6	516.4	505.3	522.0
39	CCB	1.913	-3.811	-.7398	1.689	.1787	-1.290
40	CCB	1.078	-2.408	-1.146	.7657	.3297	-1.155
41	BLKW091902B	2.600	-1.766	-1.940	2.578	.1173	-1.578
42	LCSW091902B	511.1	516.2	512.3	520.8	514.1	515.2
43	LCDW091902B	508.2	514.2	511.9	519.2	511.5	510.4
44	220910209	7.662	5.274	-1.868	1.903	69.19	15.75
45	220910209L	4.704	-.3673	-.5922	2.346	14.26	1.674
46	220910210MS	514.1	518.6	494.2	515.9	599.7	535.4
47	220910211SD	516.1	527.7	504.6	528.5	H604.0	544.2
48	220910209A	510.5	520.6	505.4	524.8	572.6	526.9
49	220910212	1.355	.1401	-.2978	3.291	2.038	41.60
50	220910213	1.010	-1.664	.7007	.3131	.5059	-1.710
51	CCV	525.0	534.1	511.2	510.1	498.2	520.5
52	CCB	1.628	-2.707	-.1985	3.575	.2114	-1.358
53	220910201	2.553	-1.266	-3.252	3.750	2.459	8.481

#	Sample Name	1960-1	1960-2	Sn1899	Tl1908	V_2924	Zn2138
54	220910202	3.366	-.3579	-1.924	.6700	5.054	2.310
55	220910203	7.412	.6765	-1.669	1.149	45.37	14.33
56	220910204	4.533	1.227	-.8726	-.5468	7.174	.9674
57	220910205	2.651	-.8409	-2.572	.2826	6.132	6.328
58	220910206	1.604	-1.181	-2.423	2.284	.2721	.5351
59	220910207	1.261	.8684	-3.589	.9514	3.171	30.15
60	220910208	.5228	-1.122	-1.494	.2969	2.303	42.85
61	220913201	4.315	-1.716	-.1112	1.702	.1648	140.9
62	220913202	2.822	-2.806	-.6293	.7197	.7786	69.85
63	CCV	529.1	534.1	512.2	512.8	501.5	523.5
64	CCB	2.190	-3.014	.4666	3.377	.5803	-1.316
65	220913203	.8001	.5013	-1.756	.6649	.6659	148.3
66	220913204	3.623	-3.089	.2442	.2280	.4893	32.81
67	220913205	3.259	-1.483	.2113	1.960	1.890	20.10
68	220913206	1.134	-1.708	-1.266	2.992	1.855	7.961
69	220913207	.8695	.0021	-3.219	1.489	.4847	25.83
70	220914304	9.585	6.402	.6811	7.483	30.40	-1.526
71	220914304 RP	3.625	5.662	5.702	8.966	25.61	70.13
72	220914304 RP DUP	3.711	7.287	.6493	8.823	26.75	34.66
73	CCV	531.9	534.4	514.7	514.3	502.2	524.0
74	CCB	1.603	-1.919	-.6743	4.102	.3960	-1.201
75	CCB	4.510	-3.610	-1.165	2.671	.5709	-1.437

STANDARD LOT	ID	MFG LOT	MANUFACTURER	EXPIRATION DATE	FINAL VOLUME	CREATED/RECEIVED	BY
MET-28003	6010_Std2			9/18/03 7:51:00 AM	1000 mL	9/18/02 7:21:00 AM	RHOL

100000 ug/L: Iron
250000 ug/L: Aluminum, Magnesium, Potassium, Sodium, Calcium

COMPOSED OF:

DISCARDED:_____

6010_K@10K MET-18906: 25 mL 6010_MAJICSA MET-27101: 50 mL 6010_Na@10K MET-20005: 25 mL HCL_36.5-38 MET-18902: 50 mL HNO3_69-70 MET-18903: 60 mL

STANDARD LOT	ID	MFG LOT	MANUFACTURER	EXPIRATION DATE	FINAL VOLUME	CREATED/RECEIVED	BY
MET-27603	6010_Std3			9/12/03 10:39:22 AM	1000 mL	9/12/02 10:39:00 AM	RHOL

1000 ug/L: Lead, Manganese, Molybdenum, Nickel, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Vanadium, Zinc, Selenium

COMPOSED OF: **DISCARDED:**_____

6010_901-6P7 MET-24003: 40 mL 6010_Na@10K MET-20005: 100 uL 6010_SN@1K MET-21604: 1 mL 6010_SR@1K MET-18402: 1 mL 6010_Ti@1K MET-18401: 1 mL HCL_36.5-38 MET-18902: 50 mL HNO3_69-70 MET-18903: 60 mL

STANDARD LOT	ID	MFG LOT	MANUFACTURER	EXPIRATION DATE	FINAL VOLUME	CREATED/RECEIVED	BY
MET-27604	6010_CCVWRK			1/17/03 4:02:00 AM	200 mL	9/12/02 10:42:00 AM	RHOL

125000 ug/L: Aluminum, Magnesium, Potassium, Calcium
125500 ug/L: Sodium
500 ug/L: Lead, Manganese, Molybdenum, Nickel, Silver, Strontium, Thallium, Tin, Titanium, Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Vanadium, Zinc, Selenium
50000 ug/L: Iron

COMPOSED OF: **DISCARDED:**_____

6010_Std2 MET-27105: 100 mL 6010_Std3 MET-26802: 100 mL

STANDARD LOT	ID	MFG LOT	MANUFACTURER	EXPIRATION DATE	FINAL VOLUME	CREATED/RECEIVED	BY
MET-27104	6010_ICVWRK			12/21/03 1:54:00 PM	500 mL	9/3/02 10:29:06 AM	RHOL

400 ug/L: Lead, Manganese, Molybdenum, Nickel, Silver, Strontium, Thallium, Tin, Titanium, Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Vanadium, Zinc, Selenium
40000 ug/L: Aluminum, Iron, Magnesium, Potassium, Sodium, Calcium

COMPOSED OF:

DISCARDED:_____

6010_MAJMSIC MET-25501: 8 mL 6010_MINICSA MET-24901: 8 mL

STANDARD LOT	ID	MFG LOT	MANUFACTURER	EXPIRATION DATE	FINAL VOLUME	CREATED/RECEIVED	BY
MET-27102	6010_ICSA			1/17/03 1:39:00 PM	1000 mL	9/3/02 11:22:00 AM	RHOL

225000 ug/L: Iron
250000 ug/L: Aluminum, Magnesium, Calcium

COMPOSED OF:

DISCARDED:_____

6010_FE@10K MET-21603: 12.5 mL 6010_MAJICSA MET-27101: 50 mL HCL_36.5-38 MET-18902: 50 mL HNO3_69-70 MET-18903: 60 mL

STANDARD LOT	ID	MFG LOT	MANUFACTURER	EXPIRATION DATE	FINAL VOLUME	CREATED/RECEIVED	BY
MET-25604	6010_ICSABC			1/17/03 1:39:00 PM	1000 mL	7/11/02 12:03:30 PM	JTRA

100 ug/L: Thallium, Arsenic
1000 ug/L: Nickel, Cadmium, Zinc
200 ug/L: Silver
225000 ug/L: Iron
250000 ug/L: Aluminum, Magnesium, Calcium
50 ug/L: Lead, Selenium
500 ug/L: Manganese, Molybdenum, Strontium, Tin, Titanium, Barium, Beryllium, Chromium, Cobalt, Copper, Vanadium
600 ug/L: Antimony

COMPOSED OF: **DISCARDED:**_____

6010_CLPICSA MET-24417: 10 mL 6010_FE@10K MET-21603: 12.5 mL 6010_MAJICSA MET-23901: 50 mL 6010_MO@1K MET-24410: 0.5 mL 6010_SN@1K MET-21604: 0.5 mL 6010_SR@1K MET-18402: 0.5 mL 6010_Ti@1K MET-18401: 0.5 mL HCL_36.5-38 MET-18902: 50 mL HNO3_69-70 MET-18903: 60 mL

STANDARD LOT	ID	MFG LOT	MANUFACTURER	EXPIRATION DATE	FINAL VOLUME	CREATED/RECEIVED	BY
MET-25501	6010_MAJMSIC	2FF213	CPI	12/26/03 9:02:00 AM	1000 mL	7/10/02 9:10:53 AM	JTRA

2500 mg/L: Aluminum, Iron, Magnesium, Potassium, Sodium, Calcium

DISCARDED:_____

STANDARD LOT	ID	MFG LOT	MANUFACTURER	EXPIRATION DATE	FINAL VOLUME	CREATED/RECEIVED	BY
MET-25202	6010_PDSWRK			6/28/03 7:03:00 AM	50 mL	6/1/02 9:23:00 AM	DTHO

12500 ug/L: Lead, Manganese, Molybdenum, Nickel, Silver, Strontium, Thallium, Tin, Titanium, Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Vanadium, Zinc, Selenium
1250000 ug/L: Aluminum, Iron, Magnesium, Potassium, Sodium, Calcium

DISCARDED:_____

COMPOSED OF:

6010_MAJMSIC MET-18802: 25 mL 6010_MINICSA MET-24901: 25 mL

STANDARD LOT	ID	MFG LOT	MANUFACTURER	EXPIRATION DATE	FINAL VOLUME	CREATED/RECEIVED	BY
MET-24901	6010_MINICSA	2FF156	CPI	12/21/03 1:54:00 PM		6/26/02 1:53:38 PM	DTHO

25 mg/L: Lead, Manganese, Molybdenum, Nickel, Silver, Strontium, Thallium, Tin, Titanium, Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Vanadium, Zinc, Selenium

DISCARDED:_____

Metals Digestion Log

Prepared by: JK

Date Prepared: 9/19/2

Reagents: PM#
HNO_3 126
HCl 123
H_2O_2 N/A

MAJORS Spike: MET# 25501

MINORS Spike: MET# 24901

LCS/MS/SD Spike amount: 1.0 mL Each

Method (Circle one)

Water: 3010A = ICP; 3020 = Furnace; 3005A = Total Recoverable; 200.7 = 200.7; ILMO4.0 = CLP

Soil: 3050B = ICP or Furnace; ILMO4.0 = CLP

PREP ID # 091902 B

	Sample ID	ID	Initial Weight (g) or Volume (mL)	Final volume (mL)	Spike Verification	Comment or Notification:	BATCH#: 3491
	BLKW091902B	BLK	50 mL	50 mL			HSN# 81041
	LCSW	LCS					HSN# 42
	LCDW	LCSD					HSN# 43
1	2209 102 09					Pb CECIL	
1	10	MS					HSN#
1	11	SD					HSN#
2	12						
3	13						
4	01						
5	02						
6	03						
7	04						
8	05						
9	06						
10	07						
11	08						
12	2209 132 01					AFP 6	
13	02						
14	03						
15	04						
16	05						
17	06						
18	07						
19	JK 9/19/2						
20							

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REV 07/02

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