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THIRD QUARTER 2002 OPERATIONS AND MAINTENANCE STATUS REPORT FOR BIOSPARGING AND SOIL VAPOR EXTRACTION SYSTEM AT DAY TANK 1 SITE NAS CECIL FIELD FL

8/1/2003

CH2MHILL CONSTRUCTORS INC

Third Quarter 2002
Operations and Maintenance
Status Report

Biosparging and Soil Vapor Extraction System
Day Tank 1 Site

Former Naval Air Station Cecil Field
Jacksonville, Florida

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

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Acronyms

ABB-ES	ABB Environmental Services, Inc.
acfh	actual cubic feet per hour
acfm	actual cubic feet per minute
AST	aboveground storage tank
bls	below land surface
CCI	CH2M HILL Constructors, Inc.
CLEAN	Comprehensive Long-Term Environmental Action, Navy
CTO	Contract Task Order
DO	dissolved oxygen
EMST	earth-mounded storage tank
EPA	U.S. Environmental Protection Agency
FAC	Florida Administrative Code
FDEP	Florida Department of Environmental Protection
GCTLs	groundwater cleanup target levels
LNAPL	light non-aqueous phase liquids
NADSC	Natural Attenuation Default Source Concentration
NAS	Naval Air Station
NAVFAC	Naval Facilities Engineering Command
O&M	operation and maintenance
psi	pounds per square inch
RAP	Remedial Action Plan
SCTLs	soil cleanup target levels
SVE	soil vapor extraction
SVOCs	semivolatile organic compounds
VEW	vapor extraction well
VOCs	volatile organic compounds

1.0 Introduction

CH2M HILL Constructors, Inc. (CCI) has been contracted by the Department of the Navy, Southern Division Naval Facilities Engineering Command (NAVFAC), to provide Operation and Maintenance (O&M) services at the Day Tank 1 site, Naval Air Station (NAS) Cecil Field, Jacksonville, Florida, under Response Action Contract No. N62467-98-D-0995, Contract Task Order (CTO) No. 0062.

Biosparging and soil vapor extraction (SVE) systems were installed at the Day Tank 1 site to reduce the concentration and volume of petroleum contaminated 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 from July 1, 2002, to September 30, 2002.

1.1 Objective

The objective of the remedial action at the Day Tank 1 site is to reduce the concentration and volume of petroleum contaminated groundwater and unsaturated soils to Florida Department of Environmental Protection (FDEP) Groundwater Cleanup Target Levels (GCTLs) and residential Soil Cleanup Target Levels (SCTLs), respectively, as specified in Tables I and II of Chapter 62-777, Florida Administrative Code (FAC). Biosparging and SVE are the technology currently being utilized to achieve this objective.

1.2 Site History

The Day Tank 1 site is located at the former NAS Cecil Field, approximately 1/8 of a mile south of the "A" Avenue gate on Jet Road. The site formerly contained a 200,000-gallon aboveground storage tank (AST), piping, and associated equipment to supply jet propellant fuel to the high-speed refuelers located on the flightline. It was reported that numerous spills occurred at the site over the course of the operation of the fuel delivery system (ABB Environmental Services, Inc. [ABB-ES], 1997). ABB-ES completed a contamination assessment for the facility in 1996, which documented the presence of petroleum-contaminated soil and groundwater at the site. A Remedial Action Plan (RAP) was subsequently developed by ABB-ES in 1997 for the excavation of 20,000 tons of petroleum-contaminated soil and the installation of a biosparging and SVE remediation systems to address the contaminated groundwater at the site. The AST was removed and 24,000 tons of contaminated soil was excavated in November 1999 by CCI (CCI, 2000). The biosparging and SVE systems were constructed by CCI from January to February 2000 and start-up was performed on February 29, 2000.

1.3 Remediation System/Technology Description

The biosparging system is used to treat the contaminated groundwater plume at the Day Tank 1 site. This treatment system promotes the optimum environment for microbial

activity and growth by injecting controlled volumes of air into the groundwater below the deepest point of contamination at controlled pressures via subgrade wells. The SVE system was installed to recover the undissolved portion of the injected air.

The biosparging system consists of 16 injection wells, a rotary screw-type compressor, a receiver tank, two oil coalescing filters, and associated piping and instrumentation. The biosparging wells are screened from 32 to 35 feet below land surface (bls). The biosparging system is designed for each biosparging well to operate at an airflow rate of 60 actual cubic feet per hour (acfh) and at a wellhead pressure of 18 pounds per square inch (psi).

The SVE system consists of eight extraction wells, a regenerative vacuum blower, a moisture separator equipped with a centrifugal transfer pump and storage tank, and associated piping and instrumentation. The SVE wells are screened from 3 to 18 feet bls. The SVE system was initially equipped with two 1,000-pound granular activated carbon units (installed in series), which were removed after the first 30 days of operation based upon the concentrations of the pre-treatment air stream. The SVE system is designed for each extraction well to operate at an airflow rate of 6 actual cubic feet per minute (acfm) and at a vacuum pressure of 23 inches of water (in H_2O).

Location of the biosparging and SVE extraction wells are shown on Figure 1-1.

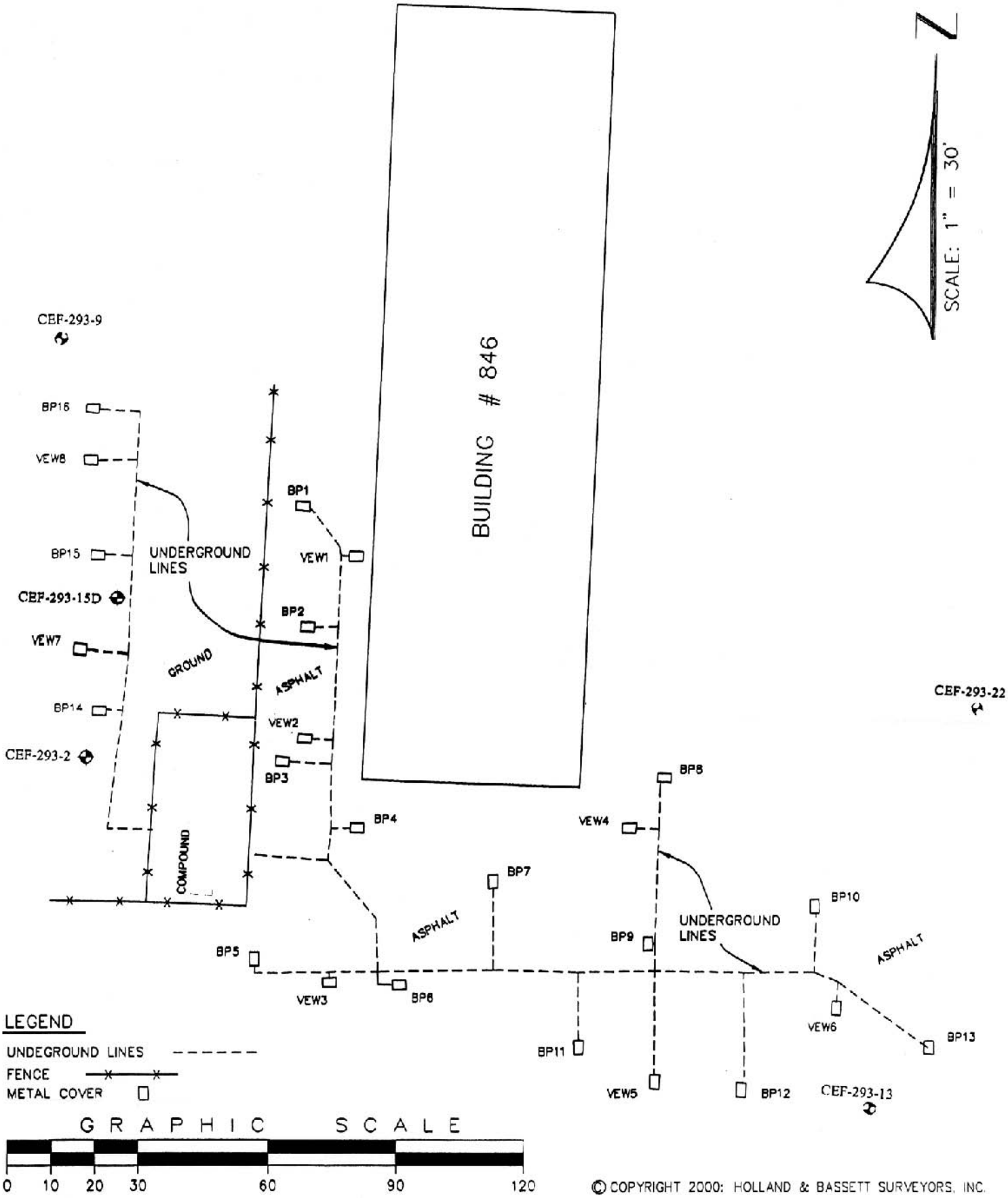

Figure 1-1
Site Map
NAS Cecil Field
Jacksonville, Florida

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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 manufacturer's recommendations) is completed, and any required maintenance activity is performed. Meters and gauges at the system were read and recorded during the O&M check. Well vault gauges and meters were read and recorded on a monthly basis.

2.1 Operational Efficiencies

2.1.1 Biosparging System

	Period	To Date
Hours of Possible Operation	2208	22679
Hours of Actual Operation	2114	20131
Percent Hours of Operation	95.7	88.7

2.1.2 SVE System

	Period	To Date
Hours of Possible Operation	2208	22679
Hours of Actual Operation	2182	20232
Percent Hours of Operation	98.8	89.2

2.2 Summary of Maintenance and System Downtime

2.2.1 Biosparging System

During the period of July 1, 2002, to September 30, 2002, the biosparging system ran a total of 88.1 days out of a possible 92 days, resulting in 93.6 hours of downtime. The biosparging system downtime is detailed as follows:

- The system was shut down for a total of 66 hours due to power interruptions. The system was reset and restarted after each occurrence.
- The system was manually shut down for a total 26.3 hours while the quarterly groundwater sampling event and water level measurements were performed.
- The system was manually shut down for a total of 1.3 hour for routine maintenance.

2.2.2 SVE System

During the period of July 1, 2002, to September 30, 2002, the SVE system ran a total of 90.9 days out of a possible 92 days, resulting in 28.8 hours of downtime. The SVE system downtime is detailed as follows:

- The system was manually shut down for a total 26.3 hours while the quarterly groundwater sampling event and water level measurements were performed.
- The system was shut down for a total of 1.5 hours due to power interruptions. The system was reset and restarted after each occurrence.
- The system was manually shut down for a total of 1 hour for routine maintenance.

2.3 Pressure/Flow Rate Monitoring

2.3.1 Biosparging System

During the 3rd Quarter 2002, the injection pressure and airflow rate were measured at each biosparging injection well on a monthly basis except in September 2002. No airflow reading were collected in September 2002, due to possible system turnover to another operator. The 3rd Quarter biosparging data is provided in Table 2-1.

TABLE 2-1
Biosparging Well Pressure and Flow Measurements

AS Well	Date	Wellhead Flow (acfh)	Wellhead Pressure (psi)
BP-01	07/29/2002	60	12
	08/12/2002	60	12
	09/23/2002	NM	NM
BP-02	07/29/2002	60	10
	08/12/2002	60	10
	09/23/2002	NM	NM
BP-03	07/29/2002	60	10
	08/12/2002	60	10
	09/23/2002	NM	NM
BP-04	07/29/2002	55	10
	08/12/2002	60	12
	09/23/2002	NM	NM
BP-05	07/29/2002	50	10
	08/12/2002	60	10
	09/23/2002	NM	NM
BP-06	07/29/2002	60	10
	08/12/2002	60	10
	09/23/2002	NM	NM
BP-07	07/29/2002	55	10
	08/12/2002	60	10
	09/23/2002	NM	NM
BP-08	07/29/2002	60	10
	08/12/2002	NM	NM
	09/23/2002	NM	NM

TABLE 2-1
Biosparging Well Pressure and Flow Measurements

AS Well	Date	Wellhead Flow (acfh)	Wellhead Pressure (psi)
BP-09	07/29/2002	60	10
	08/12/2002	60	10
	09/23/2002	NM	NM
BP-10	07/29/2002	60	10
	08/12/2002	NM	NM
	09/23/2002	NM	NM
BP-11	07/29/2002	60	10
	08/12/2002	60	10
	09/23/2002	NM	NM
BP-12	07/29/2002	60	10
	08/12/2002	60	11
	09/23/2002	NM	NM
BP-13	07/29/2002	60	10
	08/12/2002	60	10
	09/23/2002	NM	NM
BP-14	07/29/2002	55	16
	08/12/2002	60	17
	09/23/2002	NM	NM
BP-15	07/29/2002	60	10
	08/12/2002	60	11
	09/23/2002	NM	NM
BP-16	07/29/2002	60	10
	08/12/2002	60	10
	09/23/2002	NM	NM

NM = not measured
psi = pounds per square inch
acfh = actual cubic feet per hour

The actual injection pressures for the biosparging wells averaged 10.7 psi, compared to the design injection pressure of 18 psi. The actual injection airflow rate averaged 59.2 acfh per biosparging well, compared to the design injection airflow rate of 60 acfh per biosparging well.

The cause of the actual injection pressures being less than the design criteria is likely due to the screen intervals of select biosparging wells are located in low permeability zones as compared to the screen intervals of design / pilot test biosparging wells.

2.3.2 SVE System

During the 3RD Quarter 2002, the vacuum pressure and airflow rate were measured at each SVE well on a monthly basis except in September 2002. The 3rd Quarter SVE data is provided in Table 2-2.

The actual vacuum pressures for the SVE wells averaged 33.4 in H2O, compared to the design vacuum pressure of 23 in H_2O. The actual airflow rate averaged 6.6 acfm per SVE well, compared to the design injection airflow rate of 6 acfm per SVE well.

The cause of the actual vacuum pressure being less than the design criteria is likely due to the screen intervals of select injection wells are located in low permeability zones as compared to the screen intervals of design / pilot test injection wells.

TABLE 2-2
SVE System Wellhead Vacuum and Flow Measurements

Vapor Extraction Well	Date	Wellhead Flow (acfm)	Wellhead Vacuum (in H_2O)
VEW-1	07/29/2002	7	40
	08/12/2002	8	32
	09/23/2002	NM	NM
VEW-2	07/29/2002	5	36
	08/12/2002	3	23
	09/23/2002	NM	NM
VEW-3	07/29/2002	7	31
	08/12/2002	13	23
	09/23/2002	NM	NM
VEW-4	07/29/2002	6	36
	08/12/2002	NM	NM
	09/23/2002	NM	NM
VEW-5	07/29/2002	5	40
	08/12/2002	5	35
	09/23/2002	NM	NM
VEW-6	07/29/2002	6	34
	08/12/2002	9	32
	09/23/2002	NM	NM
VEW-7	07/29/2002	7	42
	08/12/2002	7	32
	09/23/2002	NM	NM
VEW-8	07/29/2002	6	32
	08/12/2002	6	31
	09/23/2002	NM	NM

NM = not measured
in H_2O = inches of water
acfm = actual cubic feet per minute

2.4 Groundwater Level Measurements

Depth to groundwater measurements were recorded on September 23, 2002, from 14 monitoring wells and 8 vapor extraction wells at the site during the 3rd Quarter 2002. The results from the 3rd Quarter 2002 groundwater level measurement surveys are provided in Table 2-3. LNAPL was present in well VEW-01 during the 3rd Quarter 2002 measurements. LNAPL was not observed in the other site wells measured during the 3rd Quarter 2002 event.

TABLE 2-3
Depth to Groundwater and LNAPL Measurements

Well Identification	Date	Top of Casing Elevation (feet)	Depth to LNAPL (feet)	Depth to Groundwater (feet)	LNAPL Thickness (feet)	Groundwater Elevation (feet)
CEF-293-01	09/23/02	NA	NE	5.69	0.00	NA
CEF-293-02	09/23/02	NA	NE	6.50	0.00	NA
CEF-293-04	09/23/02	77.22	NE	2.85	0.00	74.37
CEF-293-05	09/23/02	NA	NE	5.81	0.00	NA
CEF-293-06	09/23/02	NA	NE	6.99	0.00	NA
CEF-293-07	09/23/02	NA	NE	7.21	0.00	NA
CEF-293-09	09/23/02	77.36	NE	7.20	0.00	70.16
CEF-293-10	09/23/02	NA	NE	6.10	0.00	NA
CEF-293-11	09/23/02	NA	NE	7.15	0.00	NA
CEF-293-13	09/23/02	75.97	NE	6.56	0.00	69.41
CEF-293-14	09/23/02	NA	NE	NM	0.00	NA
CEF-293-19	09/23/02	NA	NE	7.10	0.00	NA
CEF-293-20	09/23/02	76.14	NE	6.80	0.00	69.34
CEF-293-21	09/23/02	NA	NE	6.94	0.00	NA
CEF-293-22	09/23/02	75.95	NE	6.48	0.00	69.47
VEW-01	09/23/02	76.32	6.21	6.81	0.60	69.93
VEW-02	09/23/02	75.86	NE	6.01	0.00	69.85
VEW-03	09/23/02	75.28	NE	5.60	0.00	69.68
VEW-04	09/23/02	75.54	NE	6.05	0.00	69.49
VEW-05	09/23/02	74.63	NE	5.14	0.00	69.49
VEW-06	09/23/02	74.31	NE	4.88	0.00	69.43
VEW-07	09/23/02	76.44	NE	6.29	0.00	70.15
VEW-08	09/23/02	76.43	NE	6.37	0.00	70.06

LNAPL = Light Non-Aqueous Phase Liquid
NA = Not Available
NE = Not Encountered
Elevation is referenced to National Geodetic Vertical Datum 1929 (NGVD 1929)
Depth to LNAPL is measured from top of casing
Depth to water is measured from top of casing

2.5 LNAPL Recovery

Well VEW-01 has historically contained LNAPL at a thickness ranging from 0.25 to 4.4 feet. This well continued to have LNAPL present during 3rd Quarter 2002 with a measured thickness of 0.6 feet. The LNAPL thickness in the 3rd Quarter 2002 was the lowest since November 2000 when the thickness was measured at 0.25 feet. The source of the LNAPL in the vicinity of VEW-01 is believed to be due to an underground abandoned fuel pipe that still contains product. Historical LNAPL thickness measured in the VEW-01 well are presented on Table 1 in Appendix A.

LNAPL has been bailed on a periodic basis from VEW-01 since October 2000 and a total of approximately 19.22 gallons has been recovered to date. During the 3rd Quarter 2002, a total of 1.07 gallons of LNAPL was recovered.

3.0 Summary of Sampling and Laboratory Analytical Results

3.1 Vapor Monitoring

The SVE effluent was sampled monthly during the 3rd Quarter 2002 and analyzed for volatile organic compounds (VOCs) using U.S. Environmental Protection Agency (EPA) Method 18, TO-14. The 3rd Quarter 2002 air sample analytical results are presented in Table 3-1. Copies of the analytical laboratory reports from the air sampling events are provided in Appendix B. The daily mass loading (air emission) rate summary for the 4th Quarter 2002 is provided in Table 3-2.

TABLE 3-1
Pre-treatment Vapor Analytical Result

	StationID:	SVE Effluent	SVE Effluent	SVE Effluent
	Client Sample ID:	SVE-E-A-0715-02-30	SVE-E-A-0821-02-31	SVE-E-A-0909-02-32
	Date Collected:	07/15/2002	08/21/2002	09/09/2002
Parameter	**Units**			
1,1,1-Trichloroethane	µg/m^3	60 U	70 U	60 U
1,1,2,2-Tetrachloroethane	µg/m^3	60 U	70 U	60 U
1,1,2-Trichloroethane	µg/m^3	60 U	70 U	60 U
1,1,2-Trichloro-1,2,2-trifluoroethane	µg/m^3	60 U	70 U	60 U
1,1-Dichloroethane	µg/m^3	60 U	70 U	60 U
1,1-Dichloroethene	µg/m^3	60 U	70 U	60 U
1,2,4-Trichlorobenzene	µg/m^3	60 U	70 U	60 U
1,2,4-Trimethylbenzene	µg/m^3	60 U	60 J	60 U
1,2-Dibromoethane (Ethylene dibromide)	µg/m^3	60 U	70 U	60 U
1,2-Dichloroethane	µg/m^3	60 U	70 U	60 U
1,2-Dichlorobenzene	µg/m^3	60 U	70 U	60 U
1,3-Dichlorobenzene	µg/m^3	60 U	70 U	60 U
1,4-Dichlorobenzene	µg/m^3	60 U	70 U	60 U
1,2-Dichloropropane	µg/m^3	60 U	70 U	60 U
1,3,5-Trimethylbenzene (Mesitylene)	µg/m^3	60 U	270 =	180 =
2-Chlorotoluene	µg/m^3	60 U	70 U	60 U
4-Ethyltoluene	µg/m^3	60 U	70 J	60 U
Benzene	µg/m^3	60 U	70 U	60 U
Bromoform	µg/m^3	60 U	70 U	60 U
Bromomethane	µg/m^3	60 U	70 U	60 U
Bromodichloromethane	µg/m^3	60 U	70 U	60 U
Carbon disulfide	µg/m^3	60 U	70 U	60 U
Carbon tetrachloride	µg/m^3	60 U	70 U	60 U
Chlorobenzene	µg/m^3	60 U	70 U	60 U
Chloroethane	µg/m^3	60 U	70 U	60 U
Chloroform	µg/m^3	60 U	70 U	60 U
Chloromethane	µg/m^3	60 U	70 U	60 U
cis-1,2-Dichloroethene	µg/m^3	60 U	70 U	60 U
cis-1,3-Dichloropropene	µg/m^3	60 U	70 U	60 U
Dibromochloromethane	µg/m^3	60 U	70 U	60 U
Dichlorodifluoromethane	µg/m^3	60 U	70 U	60 U
Dichlorotetrafluoroethane	µg/m^3	60 U	70 U	60 U
Ethylbenzene	µg/m^3	60 U	70 U	60 U

TABLE 3-1
Pre-treatment Vapor Analytical Result

	StationID:	SVE Effluent	SVE Effluent	SVE Effluent
	Client Sample ID:	SVE-E-A-0715-02-30	SVE-E-A-0821-02-31	SVE-E-A-0909-02-32
	Date Collected:	07/15/2002	08/21/2002	09/09/2002
Parameter	**Units**			
Hexachlorobutadiene	µg/m^3	NA	70 U	60 U
Hexane	µg/m^3	60 U	70 U	90 =
m,p-Xylene	µg/m^3	120 U	90 J	140 U
Methyl t-butyl ether (MTBE)	µg/m^3	60 U	70 U	60 U
Methylene chloride	µg/m^3	60 U	70 U	60 U
o-Xylene (1,2-Dimethylbenzene)	µg/m^3	60 U	80 =	60 U
Styrene	µg/m^3	60 U	70 U	60 U
Tetrachloroethene (PCE)	µg/m^3	60 U	70 U	60 U
Toluene	µg/m^3	60 U	70 U	60 U
trans-1,2-Dichloroethene	µg/m^3	60 U	70 U	60 U
trans-1,3-Dichloropropene	µg/m^3	60 U	70 U	60 U
trans-1,4-dichloro-2-butene	µg/m^3	60 U	70 U	60 U
Trichloroethene (TCE)	µg/m^3	60 U	70 U	60 U
Trichlorofluoromethane	µg/m^3	60 U	70 U	60 U
Vinyl chloride	µg/m^3	60 U	70 U	60 U
Total Volatile Organics (mg/m^3)	mg/m^3	0	0.57	0.27

µg/m^3 - micro grams per cubic meter
mg/m^3 - milligrams per cubic meter
U - result is not detected
= - value detected
J - result is estimated

TABLE 3-2
Pounds per Day Loading/Emission Rates

Location	Sample Date	Flow Rate (SCFM)	Total VOC Concentration (mg/m^3)	Loading Rate (lbs/day)
Pre-Treatment	07/15/2002	75	0.000	0.000
	08/21/2002	70	0.570	0.004
	09/09/2002	65	0.279	0.002

SCFM - standard cubic feet per meter
mg/m^3 - milligrams per cubic meter
lbs/day - pounds per day

Based on an average daily mass VOC recovery rate of 0.002 pounds per day and an on-stream time of 90.9 days, a total of 0.18 pounds of VOCs were removed from the subsurface during the 3rd Quarter 2002 via volatilization. Approximately 23.1 pounds have been recovered to date. This calculation does not account for mass reduction as a result of biodegradation or the mass removed via light non-aqueous phase (LNAPL) recovery.

3.2 Groundwater Monitoring

CCI conducted the 3rd Quarter 2002 groundwater sampling event on September 23 and 24, 2002. Groundwater samples were collected from five onsite monitoring wells (CEF-293-04, -09, -13, -20, and 22) and seven vapor extraction wells (VEW-02 through –08) and analyzed for VOCs by EPA Method 8021B and semi-volatile organic compounds (SVOCs) by EPA

Method 8310. A groundwater sample was not collected from VEW-01 due to the presence of LNAPL in the well. The 3rd Quarter 2002 groundwater laboratory analytical results are summarized in Table 3-3. Historic groundwater analytical results are provided in Table A2 of Appendix A. A site map showing the locations of the sampled monitoring wells are shown on Figure 3-1. The sampled vapor extraction wells are shown on Figure 1-1. Copies of the analytical laboratory reports from the groundwater sampling events are provided in Appendix C.

No parameters were detected at concentrations that exceeded the FDEP GCTLs during the 3rd Quarter 2002. This is the first quarter that no contaminants were detected above the GCTLs in the site monitoring and vapor extraction wells.

Field parameters of pH, temperature, dissolved oxygen (DO), and specific conductivity were measured during purging of the monitoring wells. The field parameters are summarized on Table 3-4. The results indicate that the DO concentrations in the monitoring and SVE wells within the treatment zone were elevated as a result of the biosparging operation.

TABLE 3-3
Groundwater Analytical Results

Sample I.D.	Sample Date	Benzene	Ethylbenzene	Toluene	Xylenes (Total)	Acenaphthylene	Acenapthene	Fluoranthene	Pyrene	Chysene	Benzo(a)anthracene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Benzo(g,h,i)perylene	Indeno(1,2,3-c,d)pyrene	Naphthalene	1-methylnaphthalene	2-Methylnaphthalene	Phenanthrene	Fluorene
NADC[1]		100	300	400	200	2100	200	2800	2100	480	20	20	50	20	2100	20	200	200	200	2100	2800
GCTL[1]		1	30	40	20	210	20	280	210	48	0.2	0.2	0.5	0.2	210	0.2	20	20	20	210	280
	Micrograms per liter (ug/L)																				
CEF-293-MW4	09/24/02	0.5 U	0.5 U	0.5 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
CEF-293-MW9	09/23/02	0.5 U	0.5 U	0.5 U	1 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
CEF-293-MW13	09/23/02	0.5 U	0.4 J	0.5 U	0.17 J	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.34 =	0.21 U	0.26 =	0.21 U
CEF-293-MW20	09/23/02	0.55 =	0.3 J	0.5 U	0.34 J	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.61 =	0.2 U	0.2 U	0.2 U	0.2 U
CEF-293-MW22	09/23/02	0.35 J	0.5 U	0.5 U	1 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	2.7 =	5.9 =	8.5 =	0.52 =	0.23 =
CEF-293-VEW-01	Not sampled to to presence of free product																				
CEF-293-VEW-02	09/23/02	0.5 U	0.5 U	0.5 U	0.21 J	0.59 =	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.24 =	0.3 =	0.21 U
CEF-293-VEW-03	09/23/02	0.5 U	0.5 U	0.5 U	1 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
CEF-293-VEW-04	09/23/02	0.5 U	0.5 U	0.5 U	1 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
CEF-293-VEW-05	09/23/02	0.5 U	0.5 U	0.5 U	1 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
CEF-293-VEW-06	09/23/02	0.5 U	0.5 U	0.5 U	1 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
CEF-293-VEW-07	09/24/02	0.5 U	0.5 U	0.5 U	1 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
CEF-293-VEW-08	09/23/02	0.5 U	0.5 U	0.5 U	1 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U

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

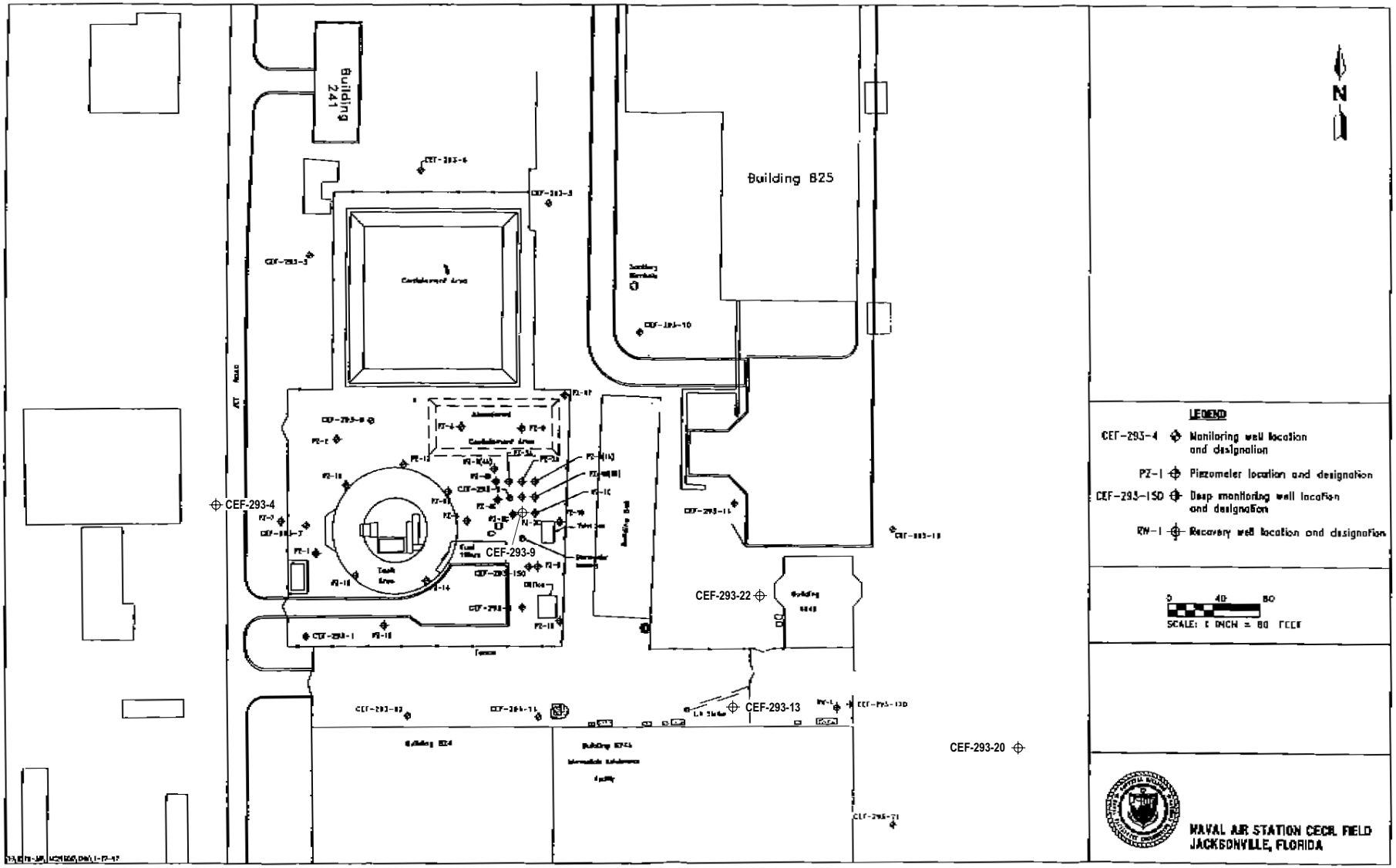

Figure 3-1
Sampled Monitoring Well Locations
Day Tank 1 Site
NAS Cecil Field
Jacksonville, Florida

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TABLE 3-4
Field Parameter Measurements

Well	Date	pH	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Temperature (^oC)
CEF-293-4	09/24/2002	6.23	0.212	1.44	27.4
CEF-293-9	09/23/2002	6.70	0.221	5.99	26.1
CEF-293-13	09/23/2002	5.18	0.112	0.55	28.2
CEF-293-20	09/23/2002	5.99	0.317	0.17	30.2
CEF-293-22	09/23/2002	5.74	0.677	0.58	28.5
VEW-1	09/23/2002	NM	NM	NM	NM
VEW-2	09/23/2002	6.46	0.102	2.40	27.6
VEW-3	09/23/2002	6.57	0.130	5.33	28.1
VEW-4	09/23/2002	5.77	0.056	5.93	27.8
VEW-5	09/23/2002	6.23	0.094	4.51	28.3
VEW-6	09/23/2002	6.10	0.171	4.80	28.2
VEW-7	09/24/2002	5.76	0.071	0.66	25.8
VEW-8	09/23/2002	5.45	0.145	1.09	26.3

mS/cm = milliSiemens per centimeter
mg/L =milligrams per liter
^oC = degrees Celsius
NM = not measured

4.0 Conclusions and Recommendations

No analytes were detected at concentrations that exceeded the FDEP GCTLs during the 3rd Quarter 2002 groundwater monitroing. This is the first quarter that no contaminants were detected above the GCTLs in the site monitoring and vapor extraction wells.

Vapor extraction well VEW-01 continues to contain LNAPL and therefore, was not sampled during the monitoring period. LNAPL has been bailed on a periodic basis from VEW-01 since October 2000 and a total of approximately 19.22 gallons has been recovered to date. The measured thickness of LNAPL (0.6 feet) was the lowest since November 2000.

The source of the LNAPL in the vicinity of VEW-01 is believed to be due to an underground abandoned fuel pipe that still contains product. The underground piping has been located and the location mapped. A project under CTO No. 21 to pig the line to remove any remaining product will be conducted in the first quarter of 2003. Additional plans for delineation and recovery of LNAPL in the vicinity of VEW-01 and VEW-02 are currently being developed by the Comprehensive Long-Term Environmental Action Navy (CLEAN) contractor.

CCI recommends that the operation of biosparging and SVE systems continue until no parameters are detected in groundwater at concentrations above the GCTLs for two consecutive quarters. Recovery of LNAPL from VEW-01 should continue until LNAPL is no longer present at the site. In addition, CCI recommends that quarterly groundwater monitoring continue and VEW-01 be sampled after LNAPL is no longer present.

5.0 References

ABB Environmental Services, Inc. 1997. Remedial Action Plan, Day Tank 1, Facility 293, Naval Air Station Cecil Field, Jacksonville, Florida, January.

CH2M HILL Constructors, Inc. 2000. Work Plan Addendum No. 03 Day Tank 1 Biosparge and Vapor Collection System Installation, Naval Air Station Cecil Field, Jacksonville, Florida, January.

Appendix A

Groundwater Historial Data Summary Tables

TABLE A1
Groundwater and LNAPL Measurements in VEW-01

Well Identification	Date	Top of Casing Elevation (feet)	Depth to LNAPL (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)
VEW-01	06/13/00	76.32	8.60	10.89	2.29	67.03
	09/14/00		4.85	7.70	2.85	70.62
	10/12/00		6.26	7.39	1.13	69.72
	10/18/00		6.39	7.29	0.90	69.66
	10/24/00		6.55	7.56	1.01	69.47
	10/30/00		6.80	7.70	0.90	69.25
	11/07/00		6.95	7.20	0.25	69.30
	11/13/00		7.05	8.13	1.08	68.95
	11/20/00		7.10	8.30	1.20	68.86
	11/27/00		7.05	9.05	2.00	68.67
	12/06/01		7.25	10.15	2.90	68.20
	12/11/00		7.35	10.10	2.75	68.15
	12/18/00		7.32	10.80	3.48	67.96
	12/21/00		7.80	9.61	1.81	67.98
	01/03/01		7.45	11.85	4.40	67.55
	01/17/01		8.16	9.36	1.20	67.80
	01/29/01		7.68	11.11	3.43	67.61
	02/13/01		7.57	11.48	3.91	67.58
	02/19/01		7.61	11.45	3.84	67.56
	02/26/01		7.70	11.68	3.98	67.43
	03/06/01		7.55	11.10	3.55	67.71
	03/12/01		7.59	11.31	3.72	67.61
	03/15/01		8.34	10.50	2.16	67.33
	04/09/01		7.29	8.08	0.79	68.79
	04/16/01		7.31	8.29	0.98	68.72
	05/03/01		7.20	11.00	3.80	67.98
	05/08/01		7.35	11.10	3.75	67.85
	05/14/01		7.52	11.58	4.06	67.58
	05/21/01		7.59	11.50	3.91	67.56
	06/25/01		7.70	10.55	2.85	67.77
	07/03/01		6.55	10.67	4.12	68.53
	08/06/01		5.60	8.49	2.89	69.85
	09/19/01		5.21	6.15	0.94	70.83
	10/03/01		NM	NM	NM	NM
	12/07/01		4.90	5.70	0.80	71.18
	12/12/01		7.80	10.70	2.90	67.65
	12/19/01		7.48	9.08	1.60	68.36
	03/20/02		7.36	9.21	1.85	68.41
	06/04/02		8.15	9.20	1.05	67.86

TABLE A2
Groundwater Analytical Results

Sample I.D.	Date	Benzene	Ethylbenzene	Toluene	Xylenes (total)	Acenapthylene	Acenapthene	Fluoranthene	Pyrene	Chrysene	Benzo (a) anthracene	Benzo(b) Fluoranthene	Benzo(k) Fluoranthene	Benzo(a) Pyrene	Benzo(g,h,i) Perylene	Indeno (1,2,3-cd) Pyrene	Naphthalene	1-Methylnapthalene	2-Methylnapthalene	Phenanthrene
CEF-293-04	01/25/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06/13/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/14/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/21/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	03/15/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06/25/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/19/01	0.18	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/03/01	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/19/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	03/20/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06/04/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NF	ND
CEF 293-09	01/25/00	43.1	602	826	2150	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	378	128	182	ND
	06/13/00	ND	1.4	ND	2.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/14/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/21/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	03/15/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06/25/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/19/01	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/03/01	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/19/01	ND	ND	ND	0.28	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	03/20/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06/05/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CEF 293-13	01/25/00	57.6	43	2.3	70.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	124	54.2	68	ND
	06/13/00	128	124	3.1	193	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	157	64.2	82.2	ND
	09/14/00	112	106	2.2	161	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	163	61.1	75	ND
	12/21/00	1.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	40.7	29.6	39.2	ND
	03/15/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.6	15.5	20.6	ND
	06/25/01	0.24	1.3	ND	0.51	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	7	11	0.22
	09/19/01	ND	0.13	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/03/01	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.86	1.9	ND
	12/19/01	ND	0.53	ND	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.38	0.97	1.8	0.3
	03/20/02	ND	0.58	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.61	ND
	06/04/02	ND	0.44	ND	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.63	0.26
CEF 293-20	01/25/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06/13/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/14/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/21/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	03/15/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06/25/01	0.67	0.25	0.37	0.46	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	54	19	21	0.34
	09/19/01	0.72	0.35	ND	1.13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/03/01	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/19/01	0.68	ND	0.52	0.69	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	03/20/02	0.45	ND	ND	0.32	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06/04/02	0.77	0.39	0.47	0.48	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.99	ND	0.24	ND
CEF 293-22	01/25/00	24.2	19.4	0.88	47.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	142	59.6	67	ND
	06/13/00	43.2	60.6	5.5	218	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	188	80.3	95.4	ND
	09/14/00	6.4	8.4	ND	20.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	38.7	22	25.1	ND
	12/21/00	19.7	9.7	<1	11.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	95	31.6	42.4	ND
	03/15/01	32.6	28.2	0.97	72.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	148	49.7	71.3	ND
	06/25/01	25	12	ND	18.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	45	16	22	ND
	09/19/01	1.9	0.44	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/03/01	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9.9	4.8	6.8	ND
	12/19/01	8.7	1.2	ND	1.57	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	34.2	13.4	17	0.57
	03/20/02	2.2	0.43	ND	0.41	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	20.8	14	17.8	0.57
	06/04/02	1	0.92	ND	0.6	0.28	0.19	ND	ND	ND	ND	ND	ND	ND	ND	ND	20.5	21.6	26.2	2.3

TABLE A2
Groundwater Analytical Results

Sample I.D.	Date	Benzene	Ethylbenzene	Toluene	Xylenes (total)	Acenapthylene	Acenapthene	Fluoranthene	Pyrene	Chrysene	Benzo (a) anthracene	Benzo(b) Fluoranthene	Benzo(k) Fluoranthene	Benzo(a) Pyrene	Benzo(g,h,i) Perylene	Indeno (1,2,3-cd) Pyrene	Naphthalene	1-Methylnapthalene	2-Methylnapthalene	Phenanthrene
VEW-01	01/25/00	18.5	257	59.4	726	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	350	220	307	ND
	06/13/00											FREE PRODUCT								
	09/14/00											FREE PRODUCT								
	12/21/00											FREE PRODUCT								
	03/15/01											FREE PRODUCT								
	06/25/01											FREE PRODUCT								
	09/19/01											FREE PRODUCT								
	10/03/01											FREE PRODUCT								
	12/19/01											FREE PRODUCT								
	03/20/02											FREE PRODUCT								
	06/05/02											FREE PRODUCT								
VEW-02	01/25/00	91.6	149	29.2	573	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	283	118	139	ND
	06/13/00											FREE PRODUCT								
	09/14/00	ND	ND	ND	156	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/21/00											FREE PRODUCT								
	03/15/01											FREE PRODUCT								
	06/25/01											FREE PRODUCT								
	09/19/01	ND	14	ND	7.1	NA	ND	NA	NA	NA	ND	NA	NA	NA	NA	ND	NA	NA	NA	NA
	10/03/01	NA	NA	NA	NA	2.1	ND	5.9	0.28	0.69	ND	0.76	0.49	0.51	1.8	ND	ND	4.6	2.2	2.1
	12/19/01	ND	22	ND	12.6	8.9	2.2	11.6	18.2	1.3	1.2	0.93	0.86	ND	0.34	0.38	ND	19.3	18.7	7.5
	03/20/02	ND	ND	ND	0.85	ND	0.39	0.27	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.84	0.96	ND
	06/05/02	ND	0.45	ND	0.62	0.39	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
VEW-03	01/25/00	24.4	85.6	11.5	128	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	220	78	102	ND
	06/13/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/14/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/21/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	03/15/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06/25/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/19/01	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/03/01	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/19/01	ND	ND	ND	0.29	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	03/20/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06/04/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.22	ND
VEW-04	01/25/00	81	138	7.8	288	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	232	88.7	108	ND
	06/13/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/14/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/21/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	03/15/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06/25/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/19/01	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/03/01	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/19/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	03/20/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06/04/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
VEW-05	01/25/00	118	72.5	11.3	110	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	194	59.8	86.1	ND
	06/13/00	33.2	ND	ND	3.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/14/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/21/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	03/15/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06/25/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/19/01	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/03/01	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/19/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	03/20/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06/04/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

TABLE A2
Groundwater Analytical Results

Sample I.D.	Date	Benzene	Ethylbenzene	Toluene	Xylenes (total)	Acenapthylene	Acenapthene	Fluoranthene	Pyrene	Chrysene	Benzo (a) anthracene	Benzo(b) Fluoranthene	Benzo(k) Fluoranthene	Benzo(a) Pyrene	Benzo(g,h,i) Perylene	Indeno (1,2,3-cd) Pyrene	Naphthalene	1-Methylnapthalene	2-Methylnapthalene	Phenanthrene
VEW-06	01/25/00	31.1	97.9	12.7	283	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	189	64.6	77.2	ND
	06/13/00	1.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/14/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/21/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	03/15/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06/25/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/19/01	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/03/01	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/19/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	03/20/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06/04/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
VEW-07	01/25/00	48	213	97.8	459	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	481	172	210	ND
	06/13/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/14/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/21/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	03/15/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06/25/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/19/01	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/03/01	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/19/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	03/20/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06/05/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
VEW-08	01/25/00	53.4	242	4.5	451	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	393	124	162	ND
	06/13/00	4	41.8	1.4	37.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	86.6	44.9	39.6	ND
	09/14/00	ND	4.8	ND	5.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.5	6.5	5.2	ND
	12/21/00	ND	10.6	<1	9.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	15.7	16	17.1	ND
	03/15/01	ND	6.4	ND	5.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.7	3.7	3.8	ND
	06/25/01	ND	1.5	ND	0.78	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.36	0.46	0.96	ND
	09/19/01	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/03/01	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.16	ND	0.5	ND
	12/19/01	ND	1.9	ND	1.42	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.84	0.67	ND
	03/20/02	ND	0.89	ND	0.88	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.3	0.95	1.2	ND
	06/05/02	ND	1.7	ND	2.07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.1	1.6	2	0.29
Cleanup Goal - RAP		1	NA	NA	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GCTL		1	30	40	20	210	20	280	210	4.8	0.2	0.2	0.5	0.2	210	0.2	20	20	20	210
NADSC		100	300	400	200	2100	200	2800	2100	480	20	20	50	20	2100	20	200	200	200	2100

Notes:
1. All concentrations are in µg/L.
2. ND= Not Detected, please see Appendix B for detection limits
3. NS = Not Sampled
4. NA = Not Analyzed
5. NADSC = Natural Attenuation Default Source Concentration

= above GC
= above NADSC

Appendix B

Laboratory Analytical Reports for Air Samples

SEVERN TRENT SERVICES

STL Pensacola

CASE NARRATIVE

STL Order Number: C207405
Project: CH2M Hill Construction
NAS Cecil Field, Day Tank 1 – CTO-0062

Client Sample ID	STL Sample ID
062-SVE-E-A-0715-02-30	C207405-1

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: C2-07405
Received: 18 JUL 02
Reported: 29 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, CECIL FIELD DAY TANK 1
Sampled By: Client
Code: 155320730

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , AIR SAMPLES	DATE/ TIME SAMPLED	SDG#
07405-1	062-SVE-E-A-0715-02-30	07-15-02/14:10	207405

PARAMETER	07405-1
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: C2-07405
Received: 18 JUL 02
Reported: 29 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, CECIL FIELD DAY TANK 1
Sampled By: Client
Code: 155320730

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , AIR SAMPLES	DATE/ TIME SAMPLED	SDG#
07405-1	062-SVE-E-A-0715-02-30	07-15-02/14:10	207405

PARAMETER	07405-1
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	100 %
Surrogate - Toluene-d8	99 %
Surrogate - 4-Bromofluorobenzene	96 %
Dilution Factor	1

SEVERN TRENT SERVICES

STL Pensacola

LOG NO: C2-07405
Received: 18 JUL 02
Reported: 29 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, CECIL FIELD DAY TANK 1
Sampled By: Client
Code: 155320730

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , AIR SAMPLES	DATE/ TIME SAMPLED	SDG#
07405-1	062-SVE-E-A-0715-02-30	07-15-02/14:10	207405

PARAMETER	07405-1
Prep Date	07.22.02
Prep Time	14:43
Analysis Date	07.22.02
Analysis Time	14:56
Batch ID	MAA126
Prep Method	MOD-TO14
Analyst	BDH

SEVERN TRENT SERVICES

STL Pensacola
LOG NO: C2-07405
Received: 18 JUL 02
Reported: 29 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.: CTO-0062
Project: CTO-0062, CECIL FIELD DAY TANK 1
Sampled By: Client
Code: 155320730

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR AIR SAMPLES	DATE/ TIME SAMPLED	SDG#
07405-2	Method Blank		207405
07405-3	Lab Control Standard True Value		207405
07405-4	Lab Control Standard Result		207405
07405-5	Lab Control Standard % Recovery		207405
07405-6	LCS Accuracy Control Limit (%R)		207405

PARAMETER	07405-2	07405-3	07405-4	07405-5	07405-6
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: C2-07405
Received: 18 JUL 02
Reported: 29 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, CECIL FIELD DAY TANK 1
Sampled By: Client
Code: 155320730

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR AIR SAMPLES	DATE/ TIME SAMPLED	SDG#
07405-2	Method Blank		207405
07405-3	Lab Control Standard True Value		207405
07405-4	Lab Control Standard Result		207405
07405-5	Lab Control Standard % Recovery		207405
07405-6	LCS Accuracy Control Limit (%R)		207405

PARAMETER	07405-2	07405-3	07405-4	07405-5	07405-6
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	0.50000	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: C2-07405
Received: 18 JUL 02
Reported: 29 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, CECIL FIELD DAY TANK 1
Sampled By: Client
Code: 155320730

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR AIR SAMPLES	DATE/ TIME SAMPLED	SDG#
07405-2	Method Blank		207405
07405-3	Lab Control Standard True Value		207405
07405-4	Lab Control Standard Result		207405
07405-5	Lab Control Standard % Recovery		207405
07405-6	LCS Accuracy Control Limit (%R)		207405

PARAMETER	07405-2	07405-3	07405-4	07405-5	07405-6
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: C2-07405
Received: 18 JUL 02
Reported: 29 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, CECIL FIELD DAY TANK 1
Sampled By: Client
Code: 155320730

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR AIR SAMPLES	DATE/ TIME SAMPLED	SDG#
07405-2	Method Blank		207405
07405-3	Lab Control Standard True Value		207405
07405-4	Lab Control Standard Result		207405
07405-5	Lab Control Standard % Recovery		207405
07405-6	LCS Accuracy Control Limit (%R)		207405

PARAMETER	07405-2	07405-3	07405-4	07405-5	07405-6

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 #: C307405 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): 7930 6964 4215

Shipped By: FEDEX

Cooler Number(s): Air Cargo

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: PR Date: 7/18/02 Logged By: PR 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.

C207405

CHAIN-OF-CUSTODY RECORD

COC NUMBER

163151-054

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 Day Tank I	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 PLANS SITE NAME	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.):
Day Tank I 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)

LINE	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
	062-SVE-E-A-0715-02-30	SVE Effluent	AIR	07/15/02	14:10	III/C	14 Day	1										Grab	Summa Canister	1

SAMPLERS NAME 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. FUSPERMAN / Robert E.	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

10

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

Jacksonville, FL, 32221

REVENUE BARCODE

FedEx.

C207405

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

Pensacola, FL, 32514

SHIP DATE: 15JUL02
WEIGHT: 16 LBS

1 of 4 = 103 lb
DT = 199

Ref: 163151/99.22.01.01/30857

DELIVERY ADDRESS BARCODE(FEDEX-EDR)

FedEx ** 2DAY **

TRK # 7920 6964 4215 FORM 0201

WED
AA

Deliver by:
17JUL02

32514-FL-US

BFM

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, nondelivery, 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.

STL Pensacola

Labeled by:
Delivered by:

CH2M-CONST-GA C207405
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	HE	7/18/02	1855
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

certlistcondcert.lst revised 07/24/02.

AIR VOLATILE CASE NARRATIVE

LABORATORY NAME: STL PENSACOLA
CASE NUMBER: NA
SDG#: 207405
PROJECT NAME: N.A.S. Cecil Field, Day Tank 1

RECEIVED July 18, 2002

CLIENT ID#	STL ID #	STL SAMPLE NAME IN PACKAGE
062-SVE-E-A-0715-02-30	207405-1	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
74051	062SVEEA0715023	100	99	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 #	207405					
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

EPA SAMPLE NO.

VOLATILE METHOD BLANK SUMMARY

VBLKMA

Lab Name: STL PENSACOLA Contract: N/A

Lab Code: STL PN Case No.: N/A SAS No.: N/A SDG No.: C207405

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	062SVEEA07150230\ 07	74051.D	14:56

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.: C207405

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.: C207405

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	062SVEEA07150230\ 07	74051.D	7/22/02	14:56

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 ###

Response Factor Report MARILYN

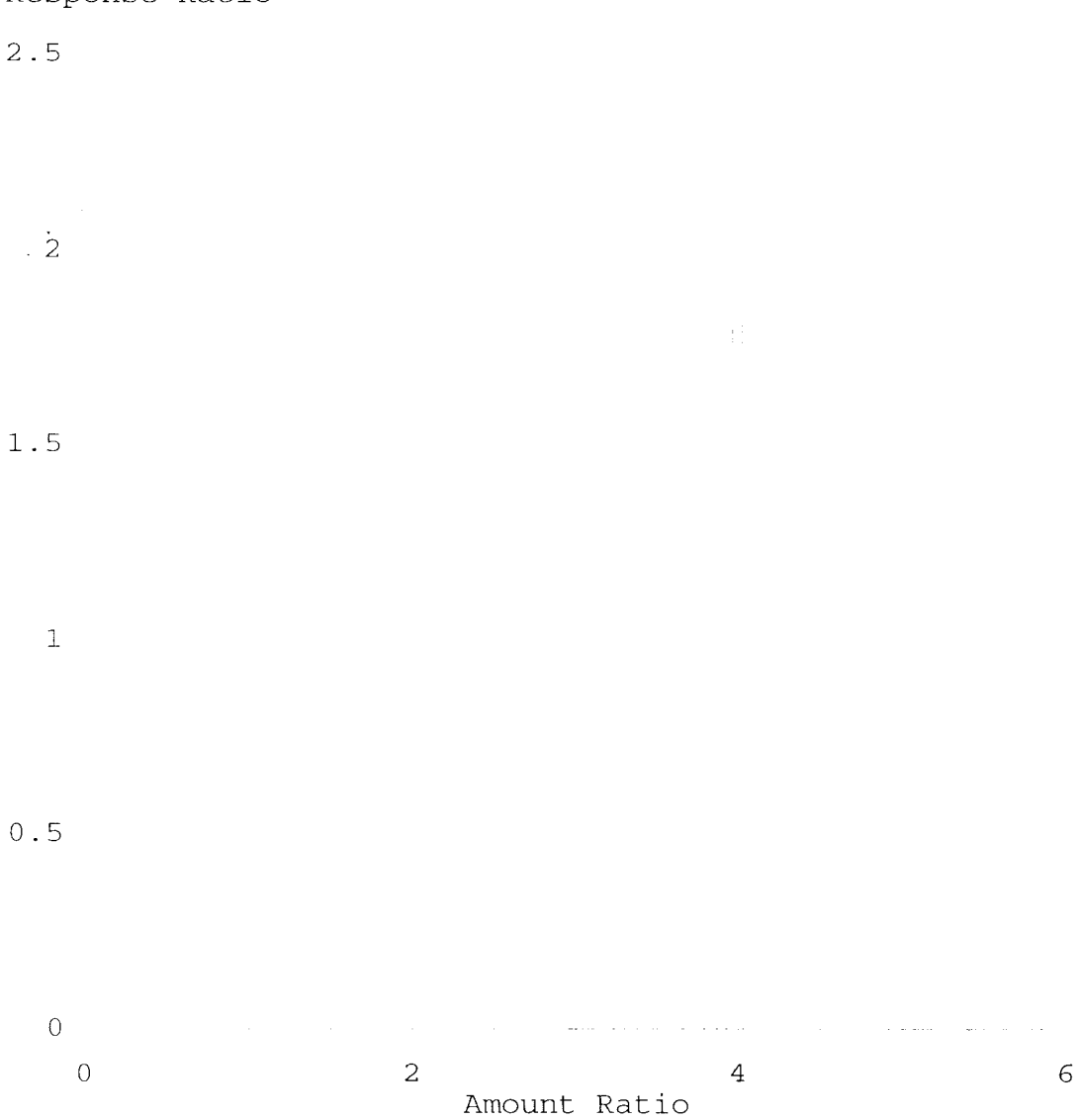
Method : D:\HPCHEM\1\METHODS\MARILYN\CRV070902 TO14\TO14S.M (RTE Inte
Title : TO14
Last Update : Mon Jul 29 14:17:31 2002
Response via : Initial Calibration

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 14:18:40 2002 Page 2

1,2,4-Trichlorobenzene

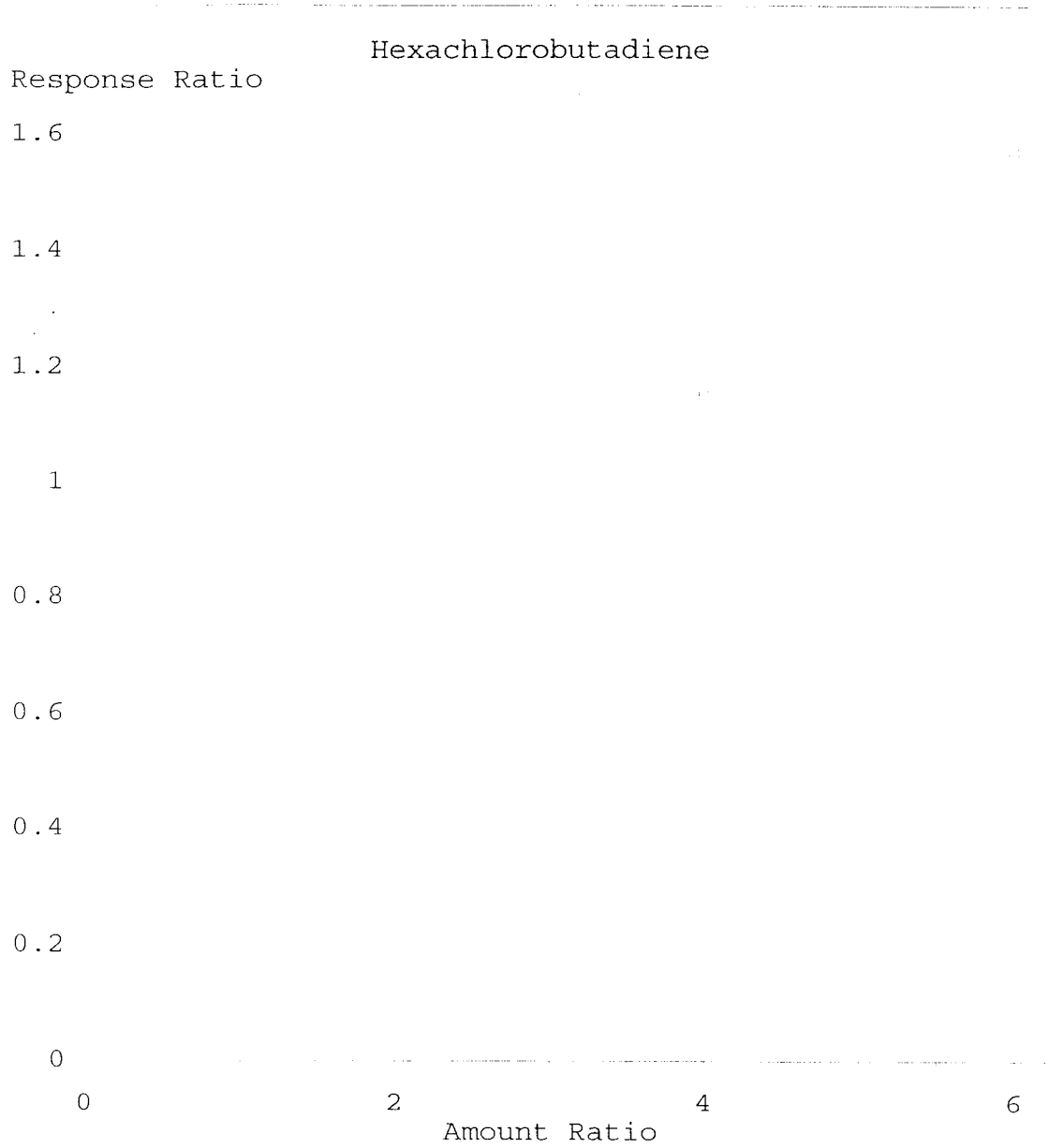


Resp Ratio = 4.00e-001 * Amt + 1.53e-001
Coef of Det (r^2) = 0.980 Curve Fit: Linear

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

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

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.: C207405

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	410353	11.21	1675109	13.15	1249962	20.43

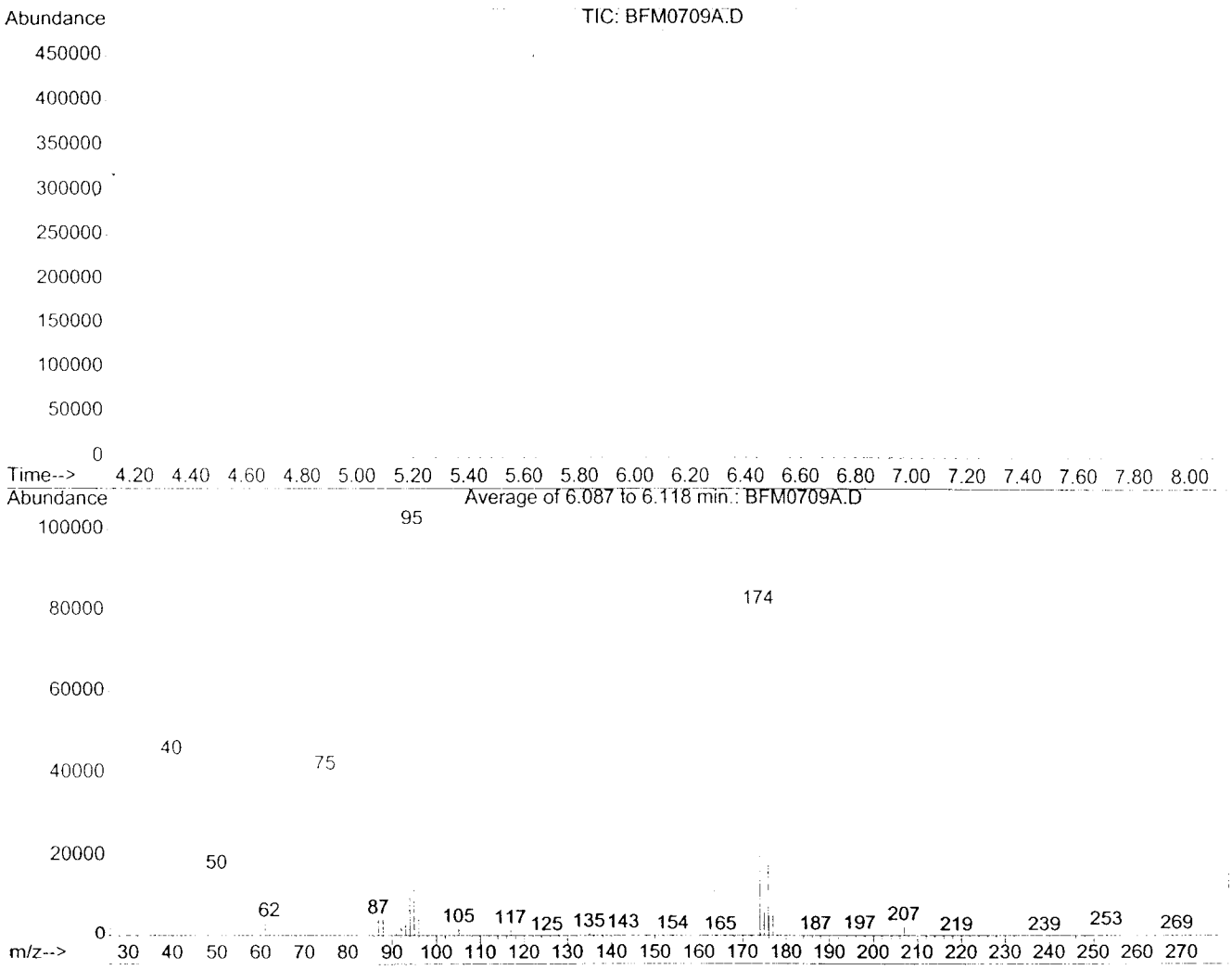
IS1 BCM = Bromochloromethane IS#
IS2 DFB = 1,4-Difluorobenzene IS#2
IS3 CLB = Chlorobenzene-d5 IS#3

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

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

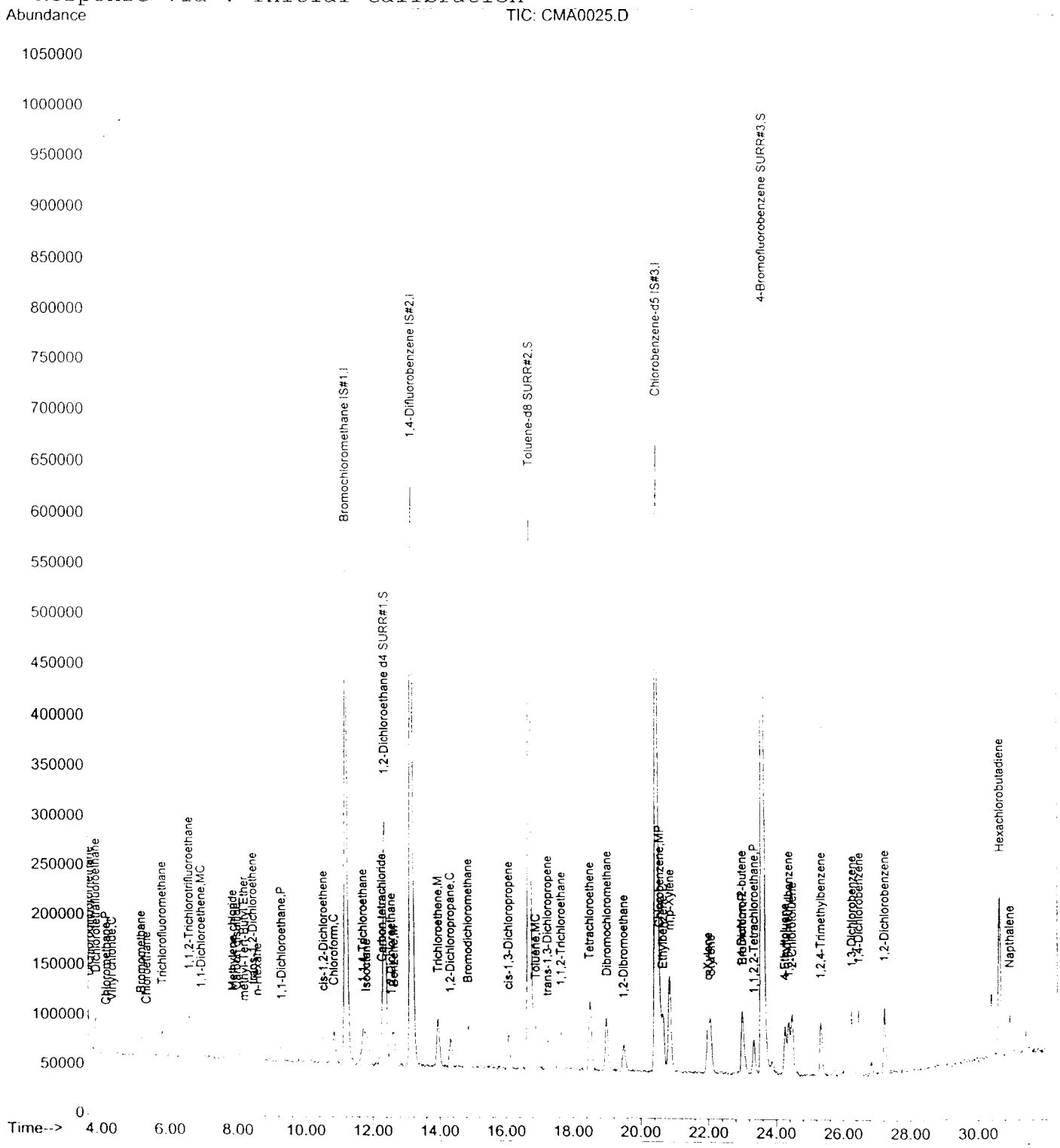
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
28)	Trichloroethene	13.94	130	62152	22.83 ng		90
29)	1,2-Dichloropropane	14.31	63	41148	19.88 ng		95
30)	Bromodichloromethane	14.84	83	103167	18.85 ng	#	97
31)	cis-1,3-Dichloropropene	16.07	75	67233	20.29 ng		94
33)	Toluene	16.88	92	73948	22.69 ng	#	95
34)	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

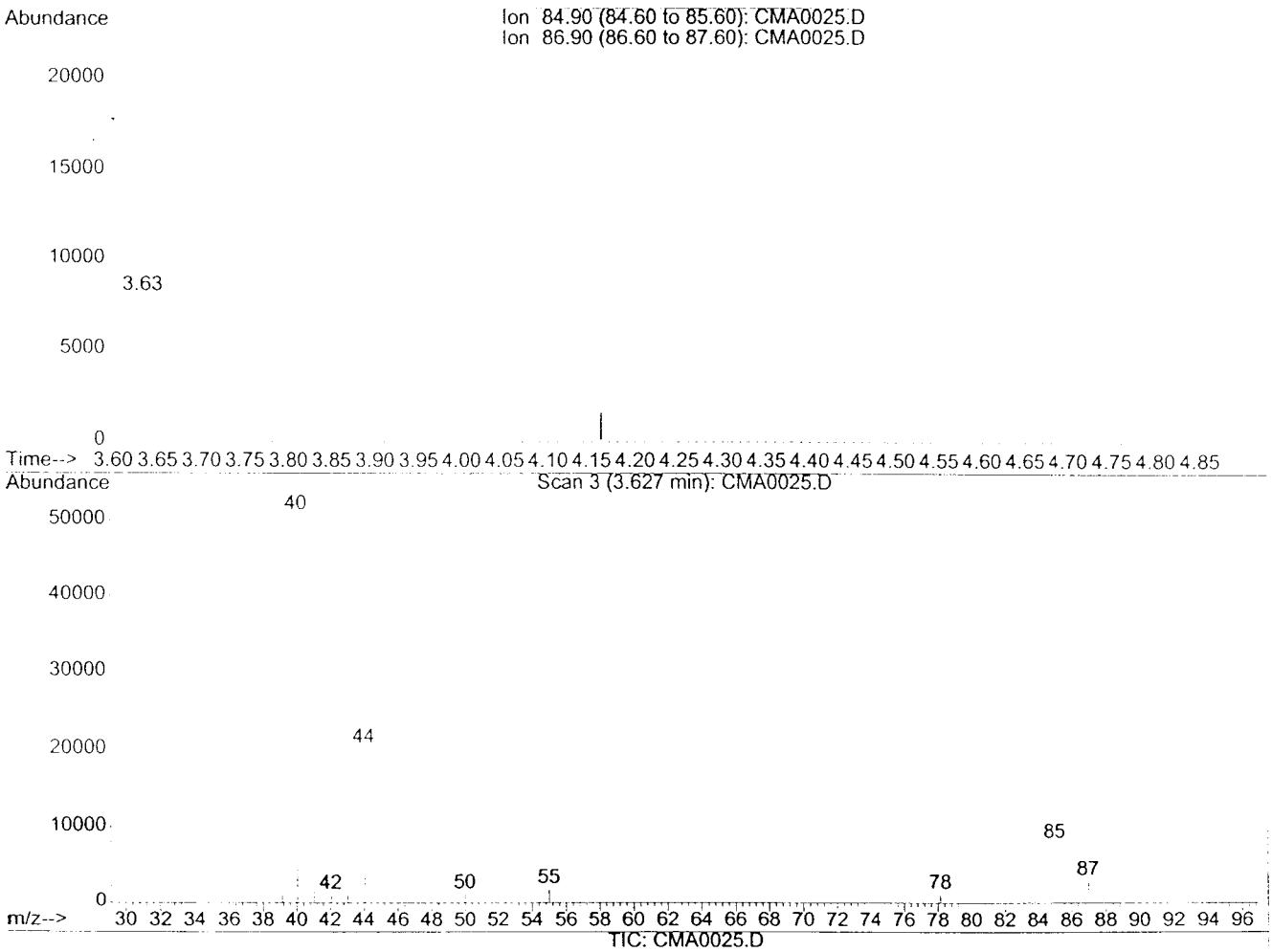
Method : D:\HPCHEM\1\METHODS\MARILYN\CRV070902 TO14\TO14S.M (RTE Inte
Title : TO14
Last Update : Mon Jul 29 14:17:31 2002
Response via : Initial Calibration



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

Quantification 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

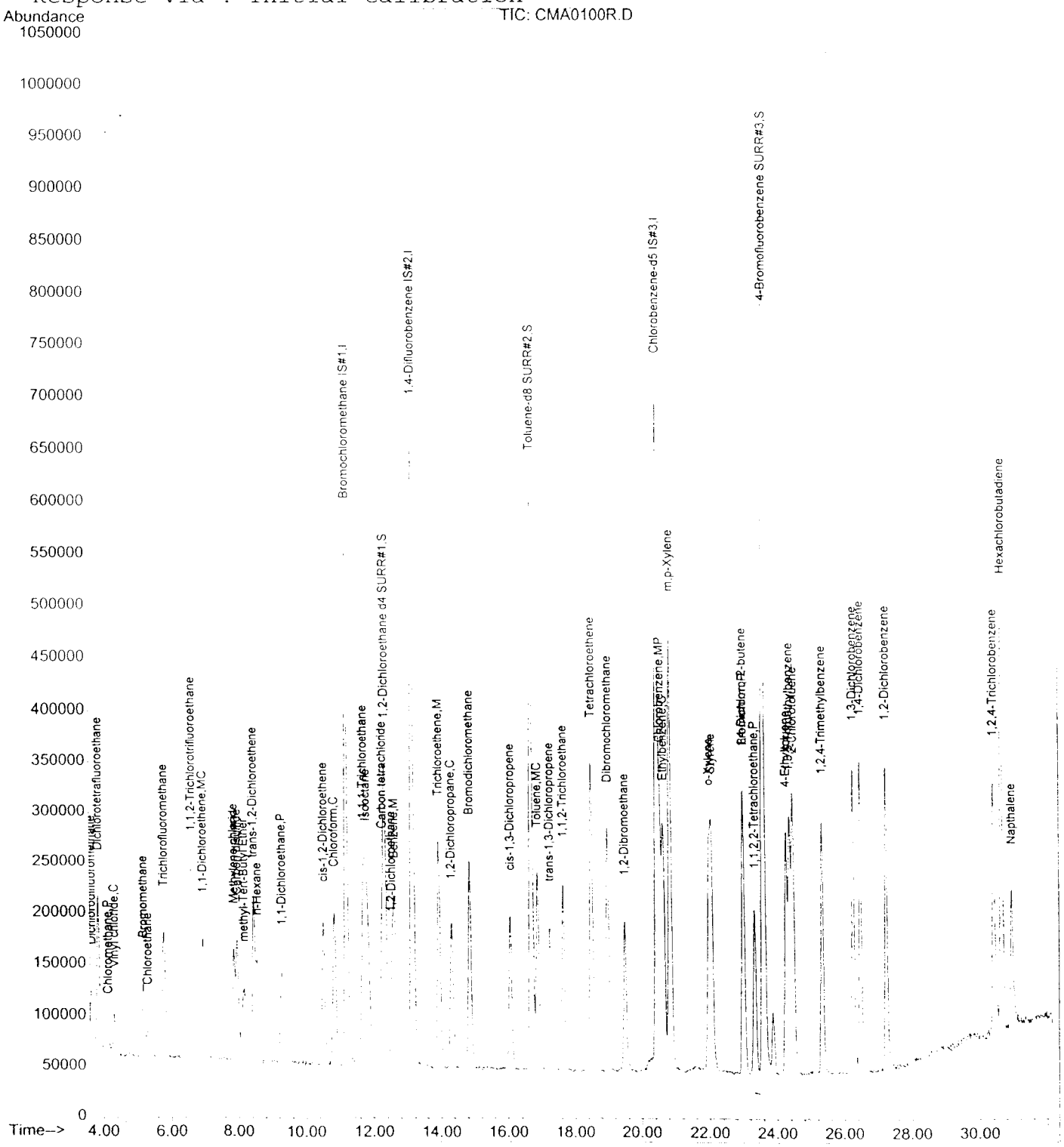
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
28)	Trichloroethene	13.92	130	273846	99.78	ng		91
29)	1,2-Dichloropropane	14.29	63	195300	97.91	ng		95
30)	Bromodichloromethane	14.84	83	457468	92.15	ng		100
31)	cis-1,3-Dichloropropene	16.07	75	294889	93.91	ng		94
33)	Toluene	16.86	92	314873	97.28	ng	#	98
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

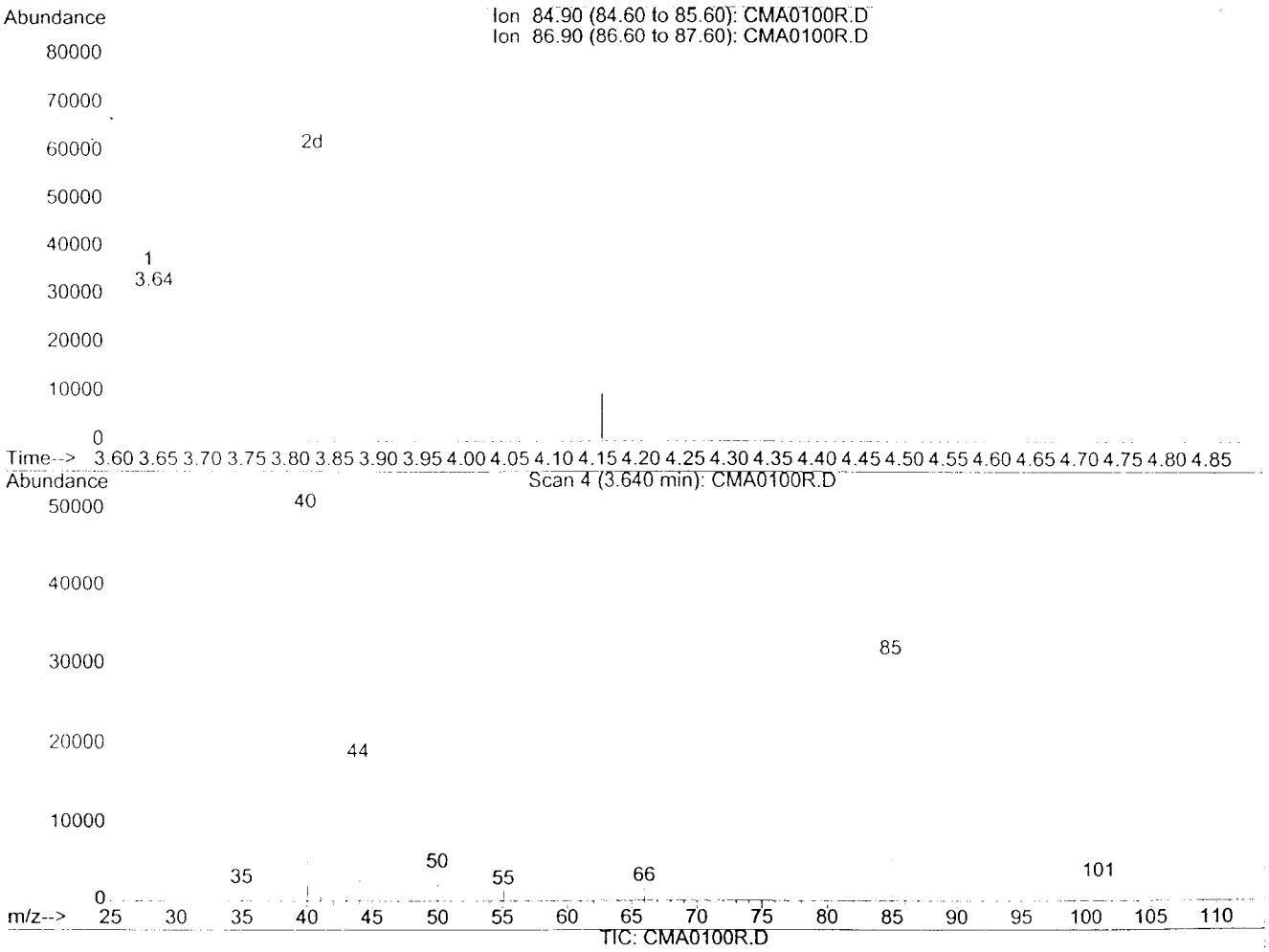
Method : D:\HPCHEM\1\METHODS\MARILYN\CRV070902 TO14\TO14S.M (RTE Inte
Title : TO14
Last Update : Mon Jul 29 14:17:31 2002
Response via : Initial Calibration



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

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

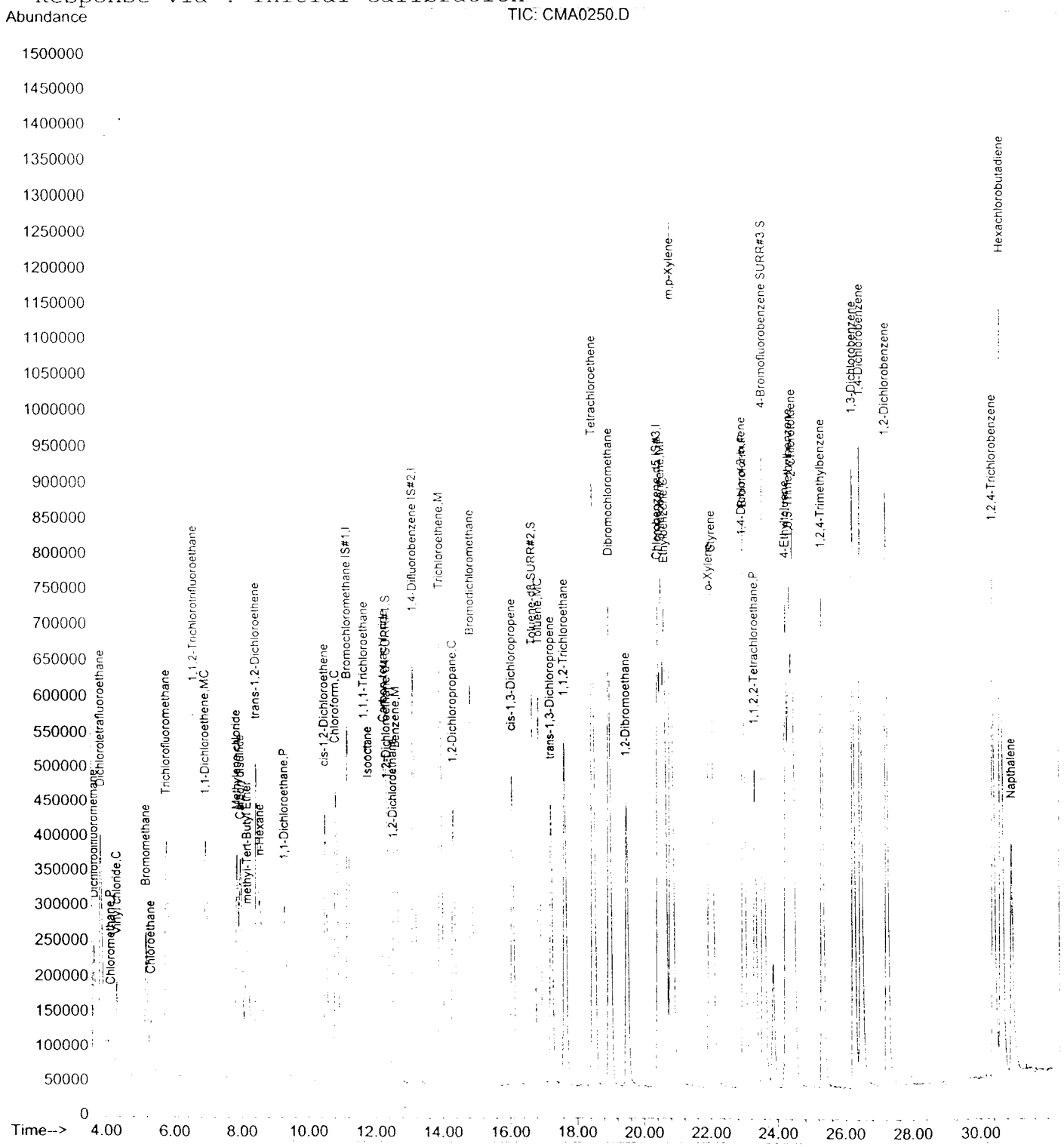
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
28)	Trichloroethene	13.94	130	762188	271.95 ng		91
29)	1,2-Dichloropropane	14.33	63	543402	254.95 ng		95
30)	Bromodichloromethane	14.85	83	1261319	223.88 ng		98
31)	cis-1,3-Dichloropropene	16.07	75	830908	243.56 ng		93
33)	Toluene	16.87	92	901436	268.61 ng	#	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

Quantification 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
CMA0500.D TO14S.M Mon Jul 29 14:26:46 2002 Page 1

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

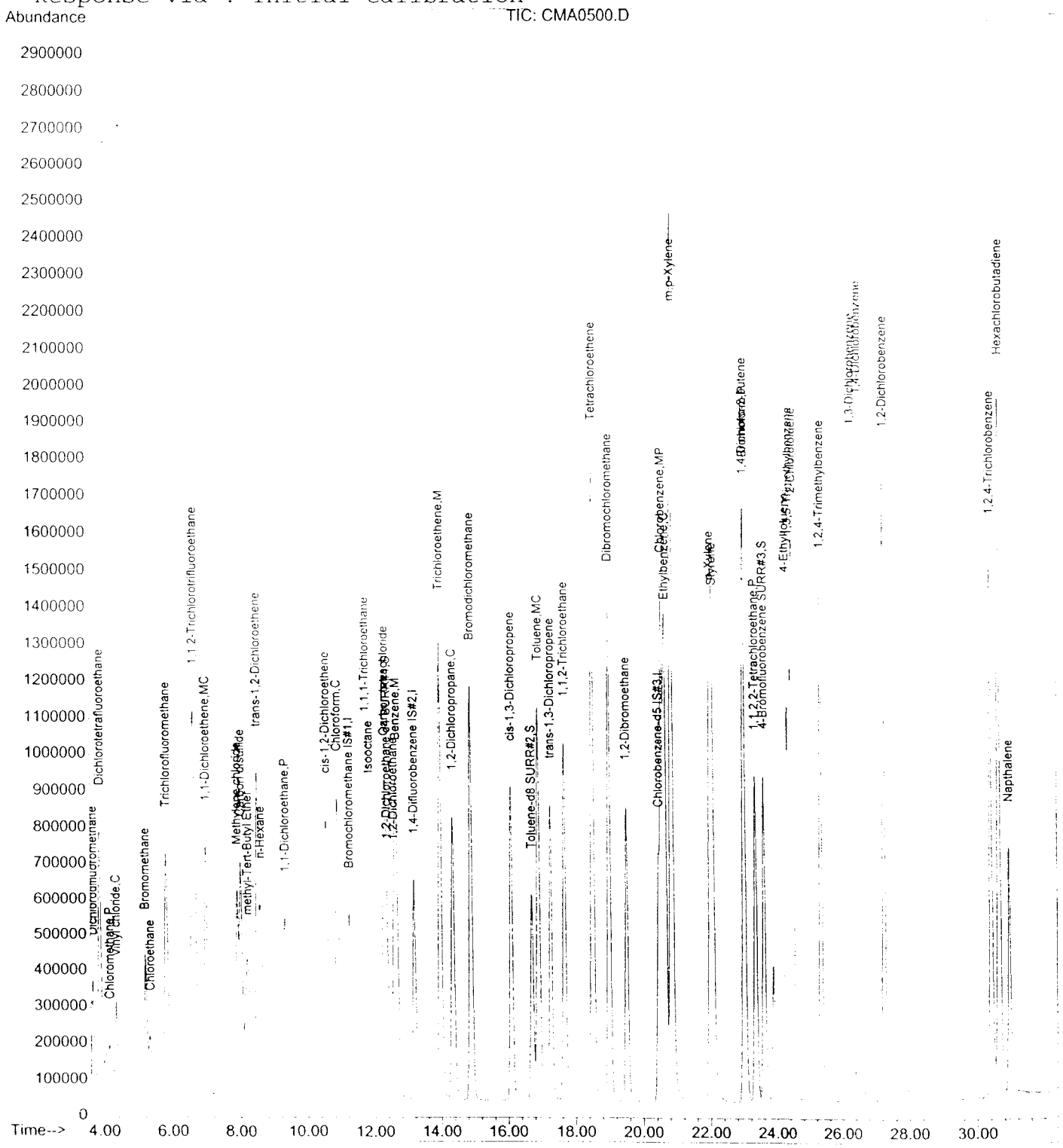
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
28)	Trichloroethene	13.96	130	1530413	557.94 ng		91
29)	1,2-Dichloropropane	14.33	63	1073791	538.61 ng		94
30)	Bromodichloromethane	14.87	83	2526591	509.23 ng		99
31)	cis-1,3-Dichloropropene	16.09	75	1665375	530.61 ng		94
33)	Toluene	16.89	92	1788695	552.92 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

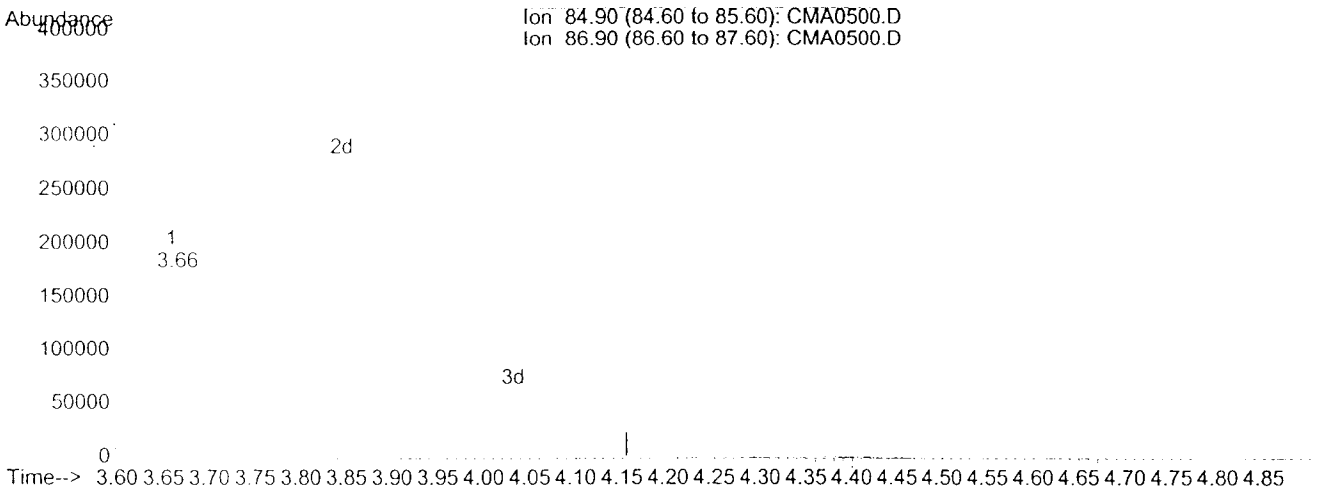
Method : D:\HPCHEM\1\METHODS\MARILYN\CRV070902 TO14\TO14S.M (RTE Inte
Title : TO14
Last Update : Mon Jul 29 14:17:31 2002
Response via : Initial Calibration

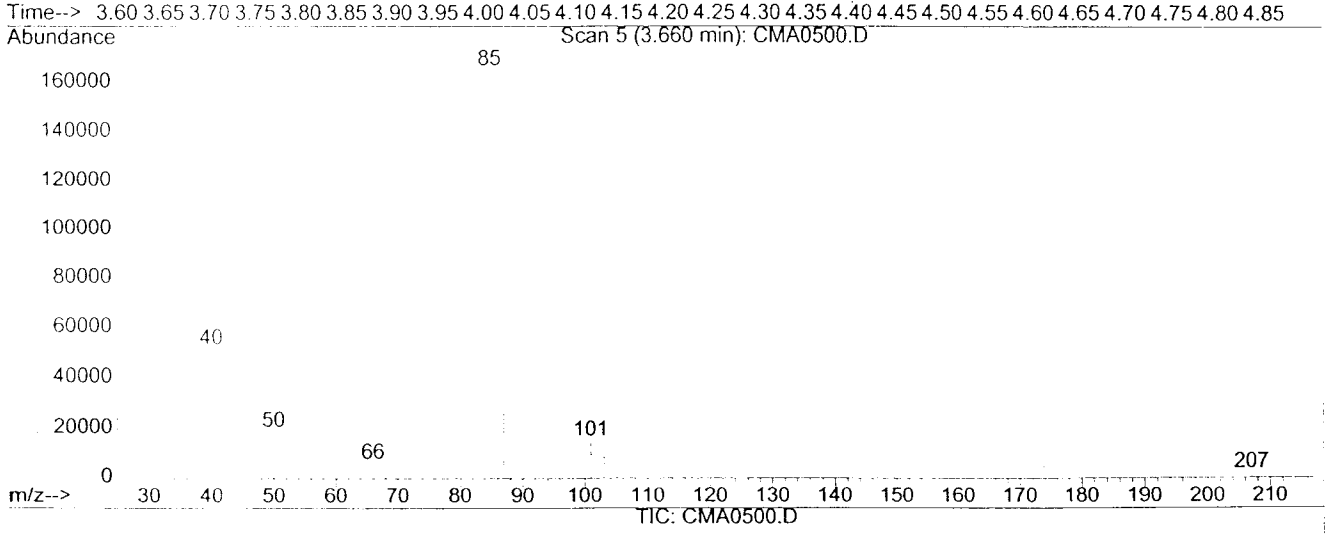


Quantitation Report (Qedit)

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

Quantification 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

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

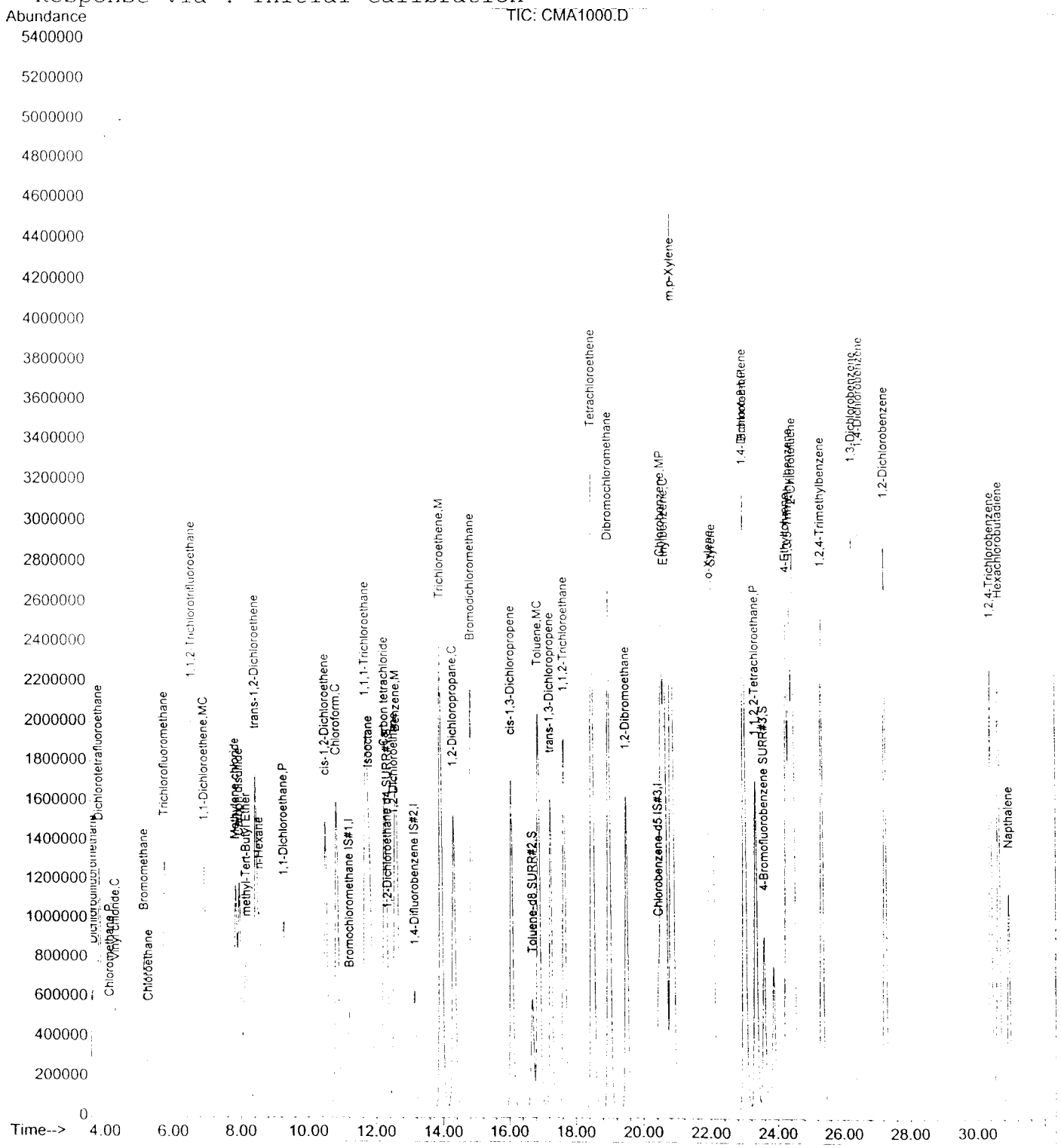
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
28)	Trichloroethene	13.94	130	2870885	1059.08 ng		91
29)	1,2-Dichloropropane	14.32	63	2026799	1028.72 ng		93
30)	Bromodichloromethane	14.86	83	4763535	971.50 ng		98
31)	cis-1,3-Dichloropropene	16.07	75	3163035	1019.76 ng		93
33)	Toluene	16.88	92	3342785	1045.61 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

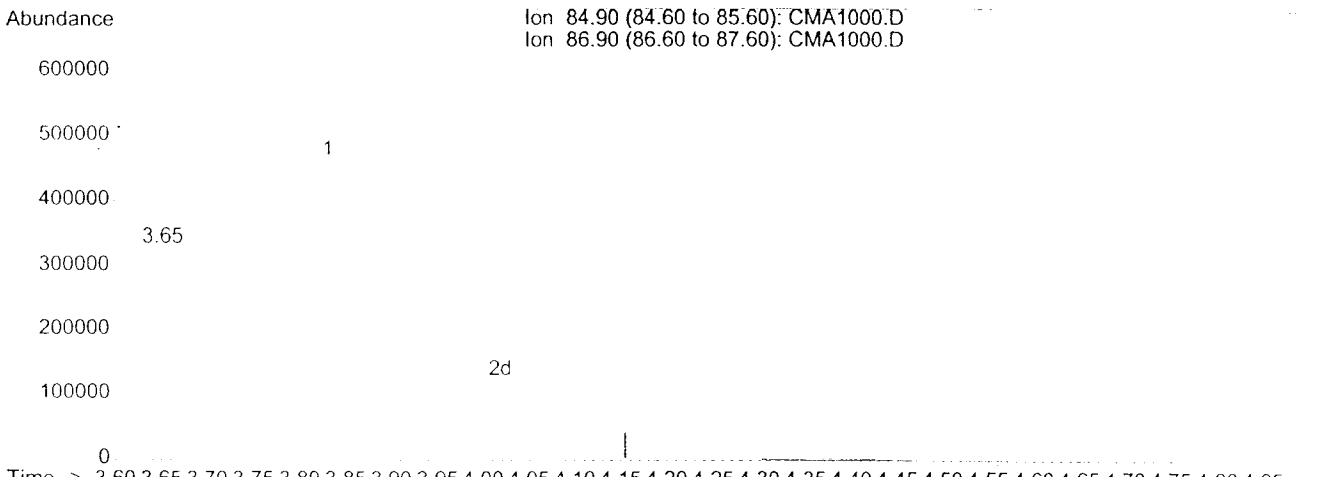
Method : D:\HPCHEM\1\METHODS\MARILYN\CRV070902 TO14\TO14S.M (RTE Inte
Title : TO14
Last Update : Mon Jul 29 14:17:31 2002
Response via : Initial Calibration

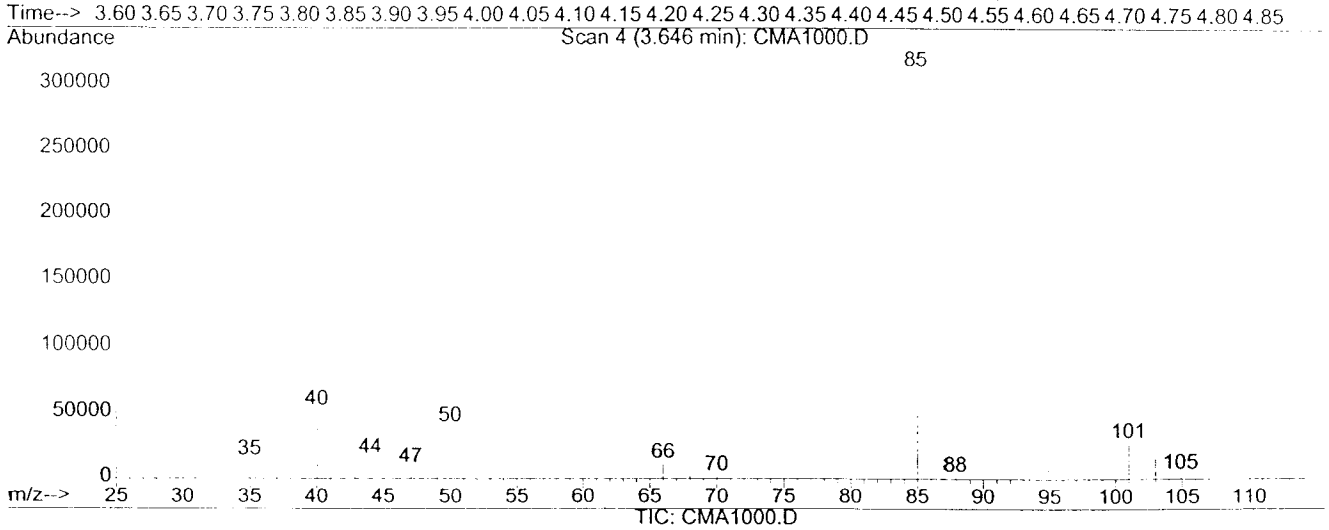


Quantitation Report (Qedit)

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

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
CMA1500.D TO14S.M Mon Jul 29 14:27:10 2002 Page 1

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

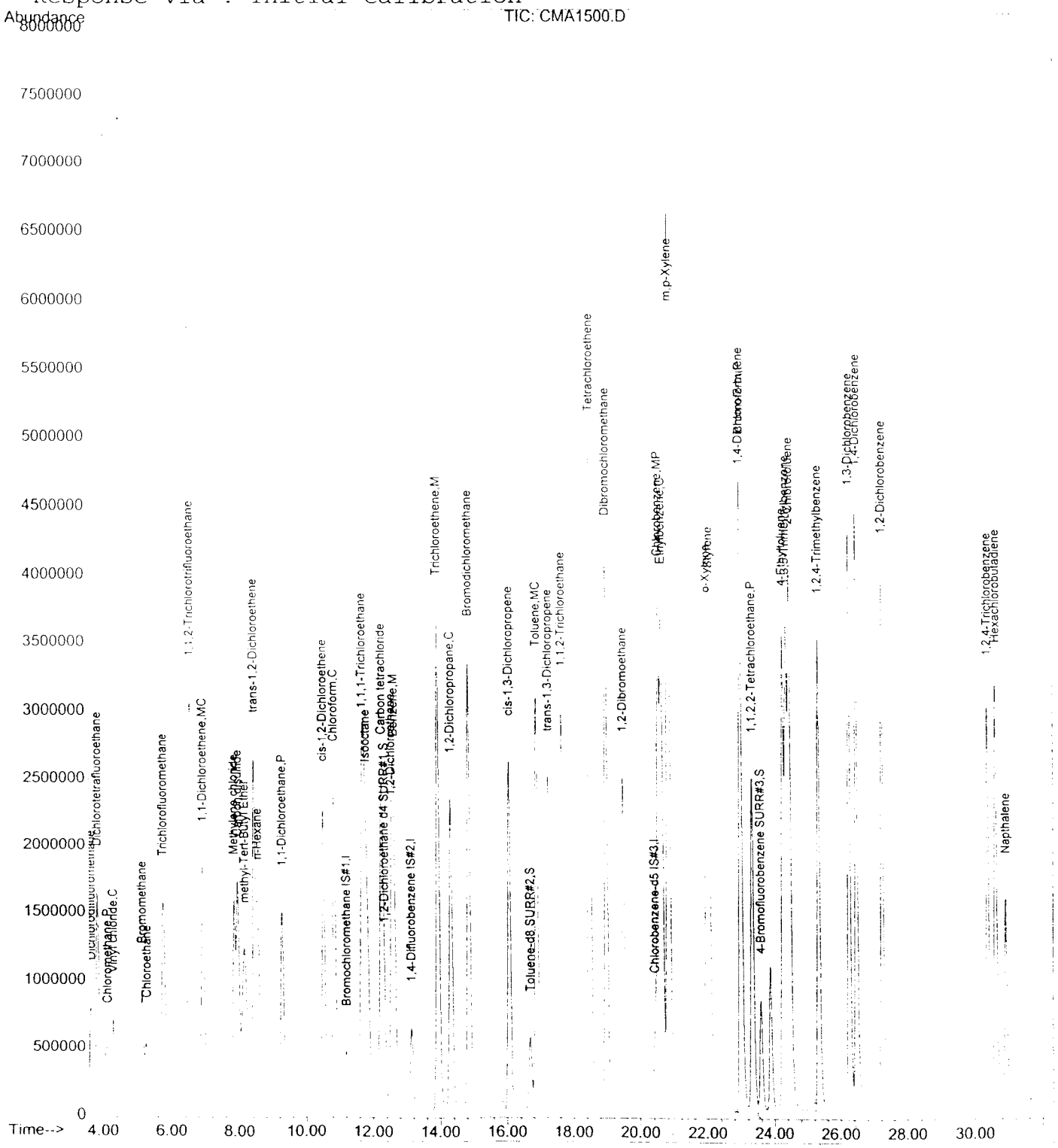
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
28)	Trichloroethene	13.92	130	4458959	1614.31 ng		91
29)	1,2-Dichloropropane	14.31	63	3162716	1575.39 ng		93
30)	Bromodichloromethane	14.85	83	7399402	1480.98 ng		99
31)	cis-1,3-Dichloropropene	16.06	75	4926312	1558.68 ng		93
33)	Toluene	16.87	92	5133500	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

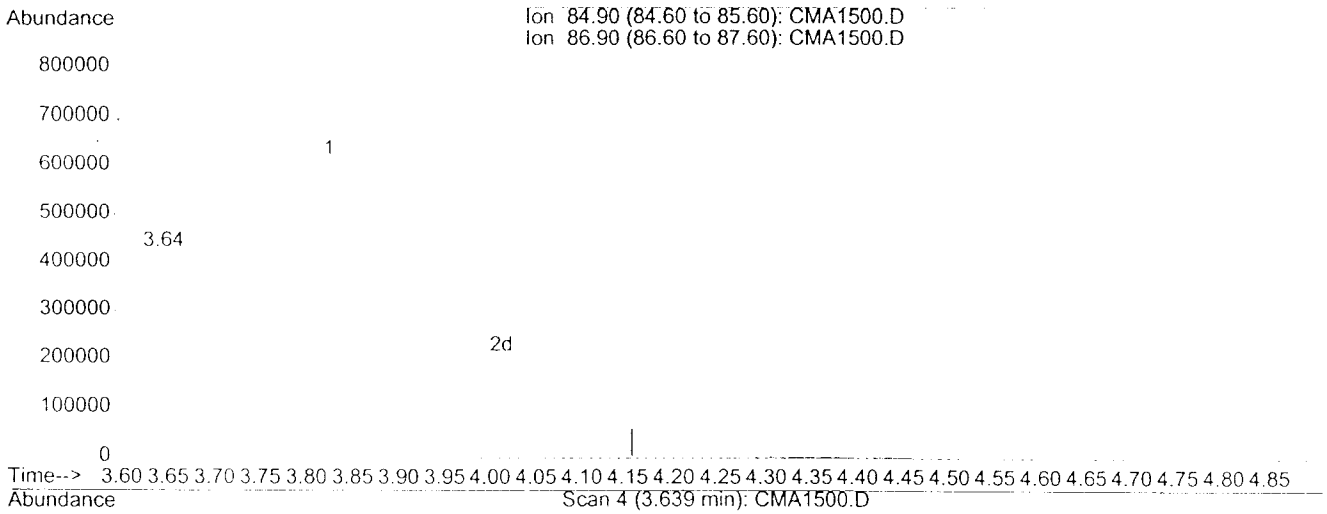
Method : D:\HPCHEM\1\METHODS\MARILYN\CRV070902 TO14\TO14S.M (RTE Inte
Title : TO14
Last Update : Mon Jul 29 14:17:31 2002
Response via : Initial Calibration

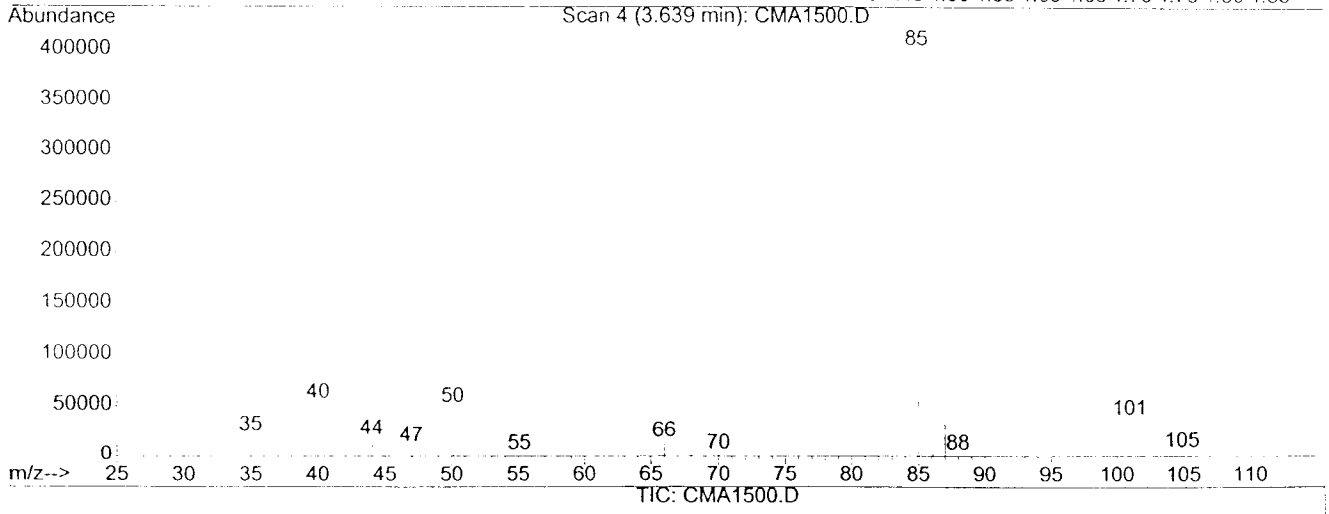


Quantitation Report (Qedit)

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

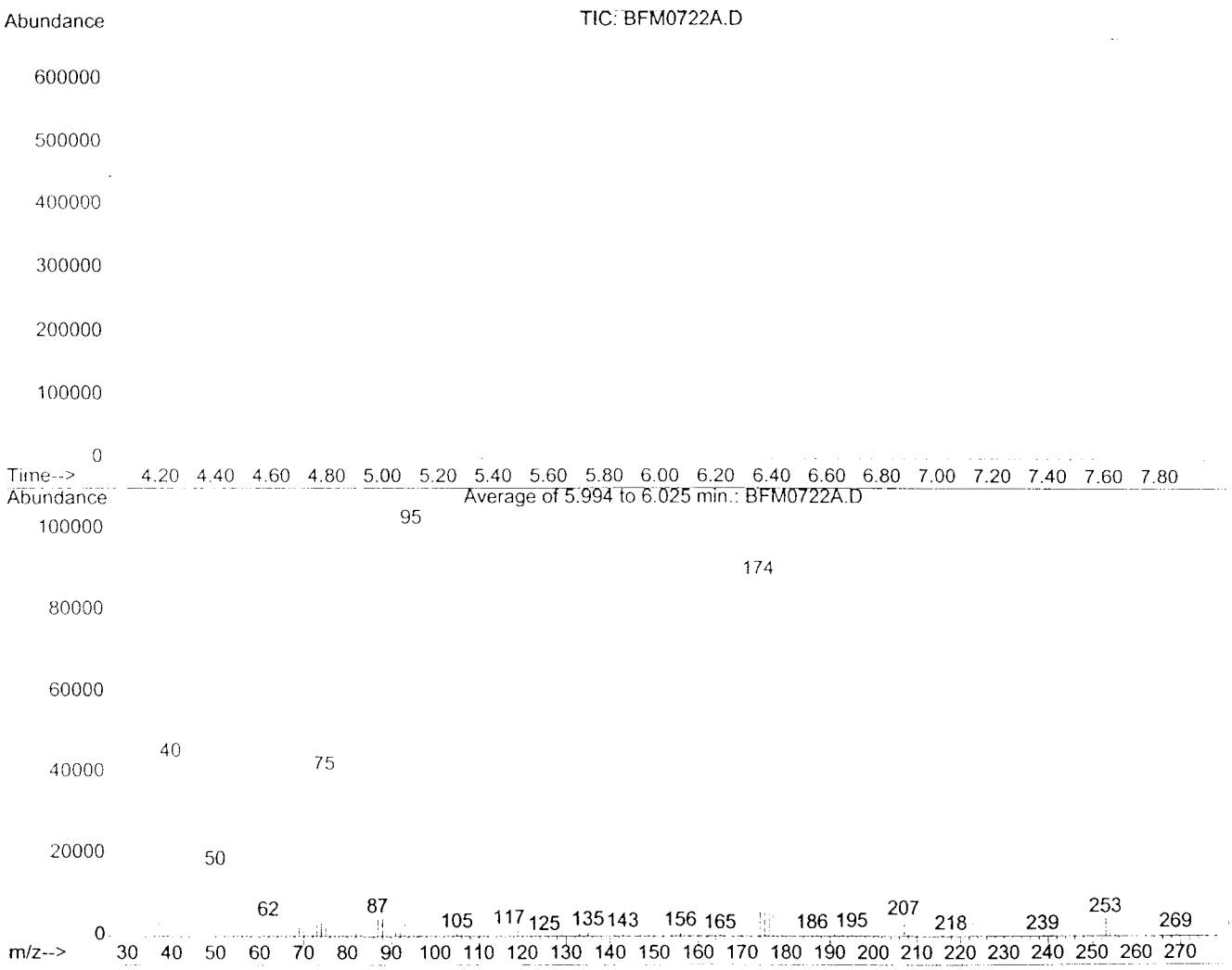
response 1953947

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

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
CM0722A.D TO14S.M Mon Jul 22 10:43:11 2002 Page 1

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

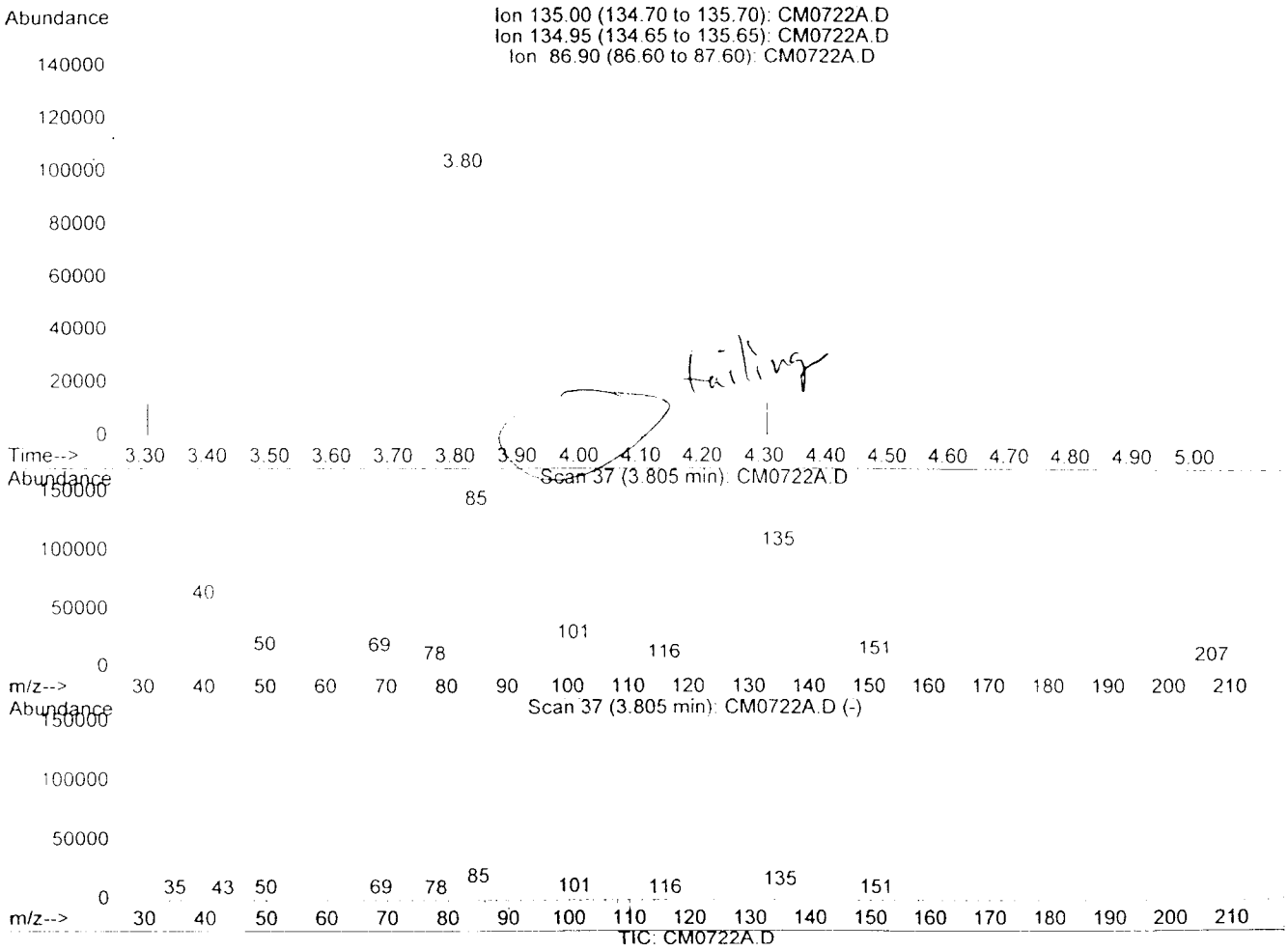
Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Jul 22 10:35:55 2002
Response via : Initial Calibration
DataAcq Meth : TO14S

	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
CM0722A.D TO14S.M Mon Jul 22 10:43:11 2002 Page 2

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

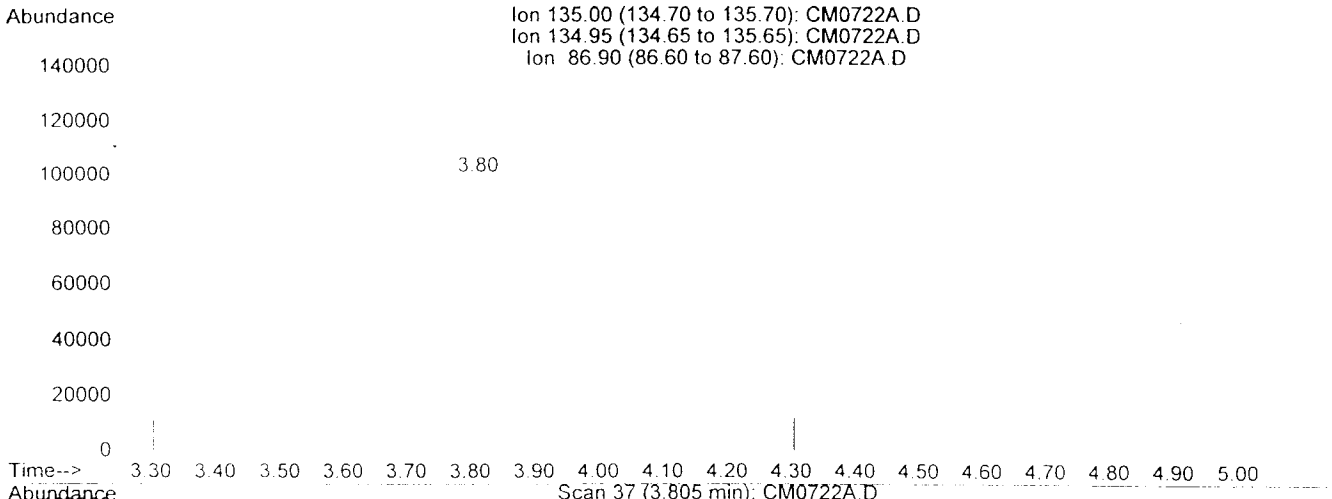
response 553671

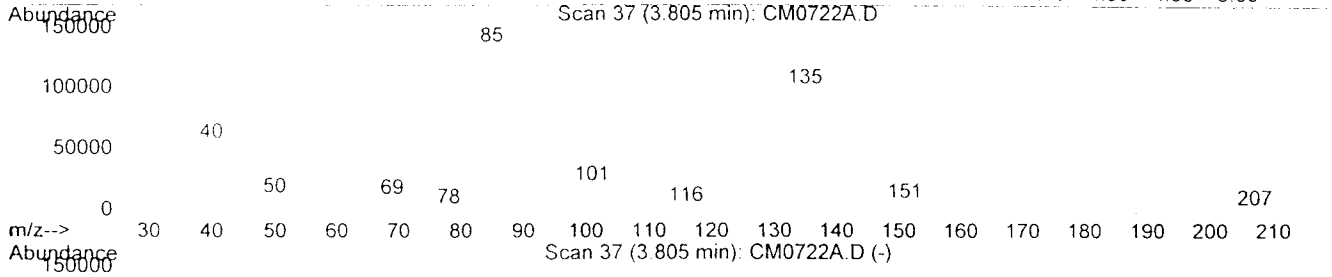
Ion	Exp%	Act%
135.00	100	100
134.95	56.30	100.00#
86.90	32.70	46.33#
0.00	0.00	0.00

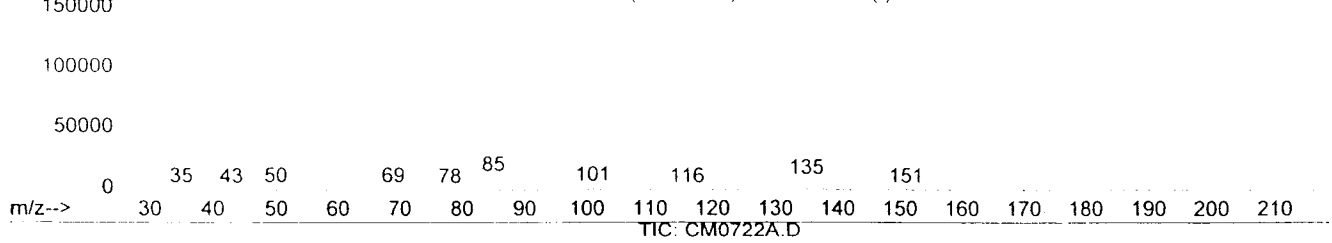
CM0722A.D TO14S.M Mon Jul 22 10:42:09 2002

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

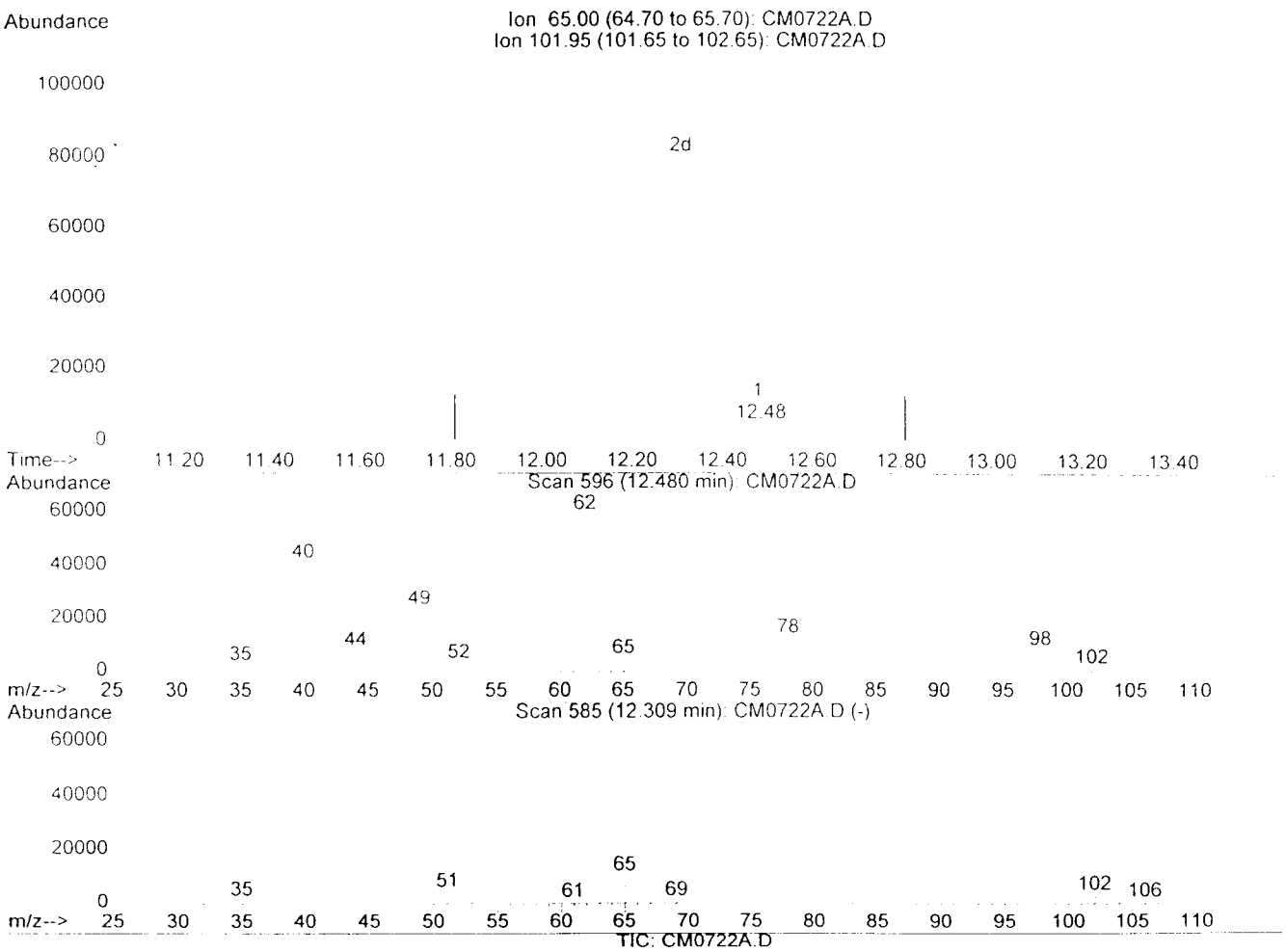
Ion	Exp%	Act%
135.00	100	100
134.95	56.30	105.32#
86.90	32.70	48.79#
0.00	0.00	0.00

after
BH
7-22-02

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

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

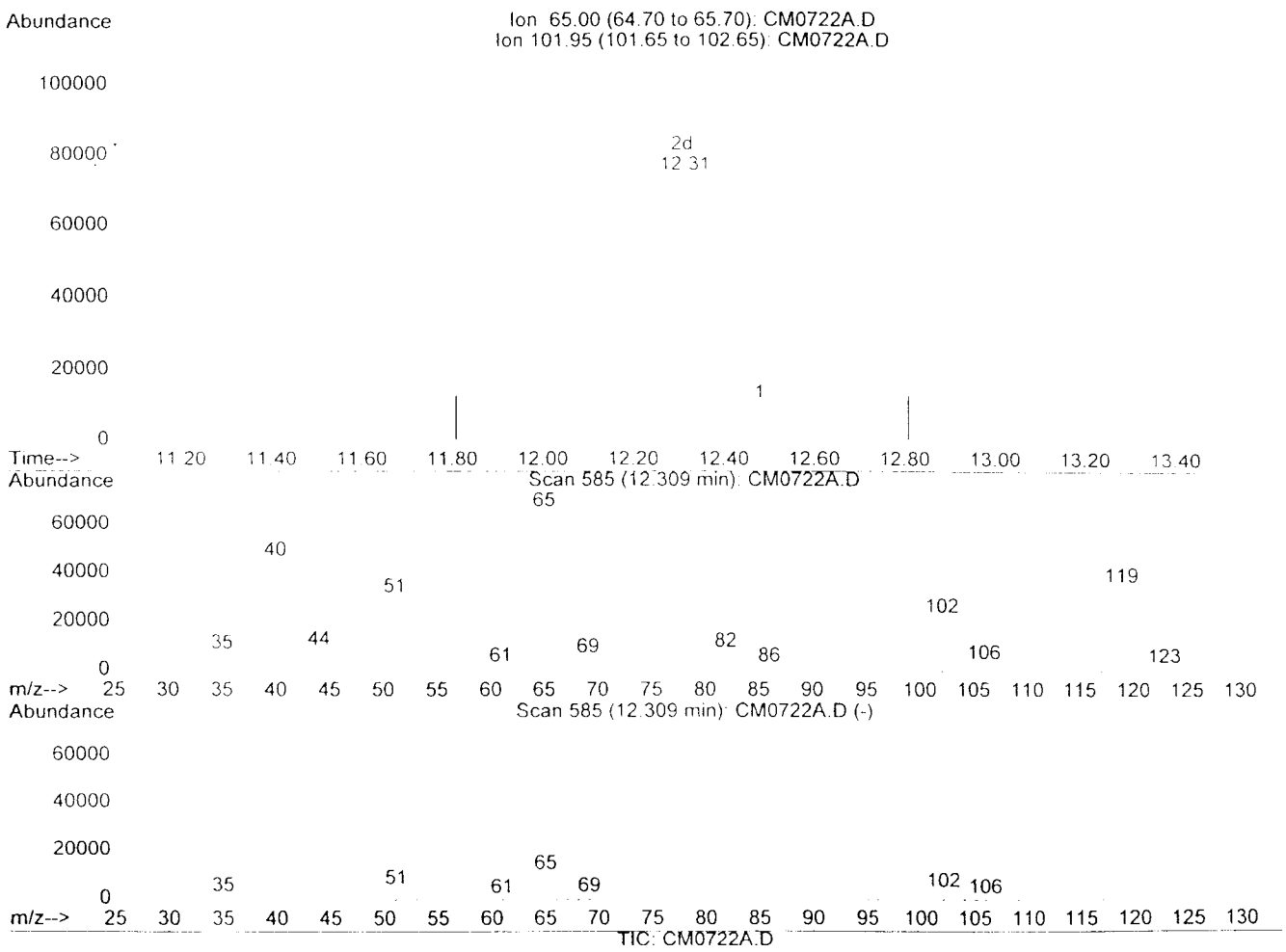
Ion	Exp%	Act%
65.00	100	100
101.95	22.40	25.30
0.00	0.00	0.00
0.00	0.00	0.00

be foul (missed peak)

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

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

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
CM0722A.D TO14S.M Mon Jul 22 10:29:29 2002

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

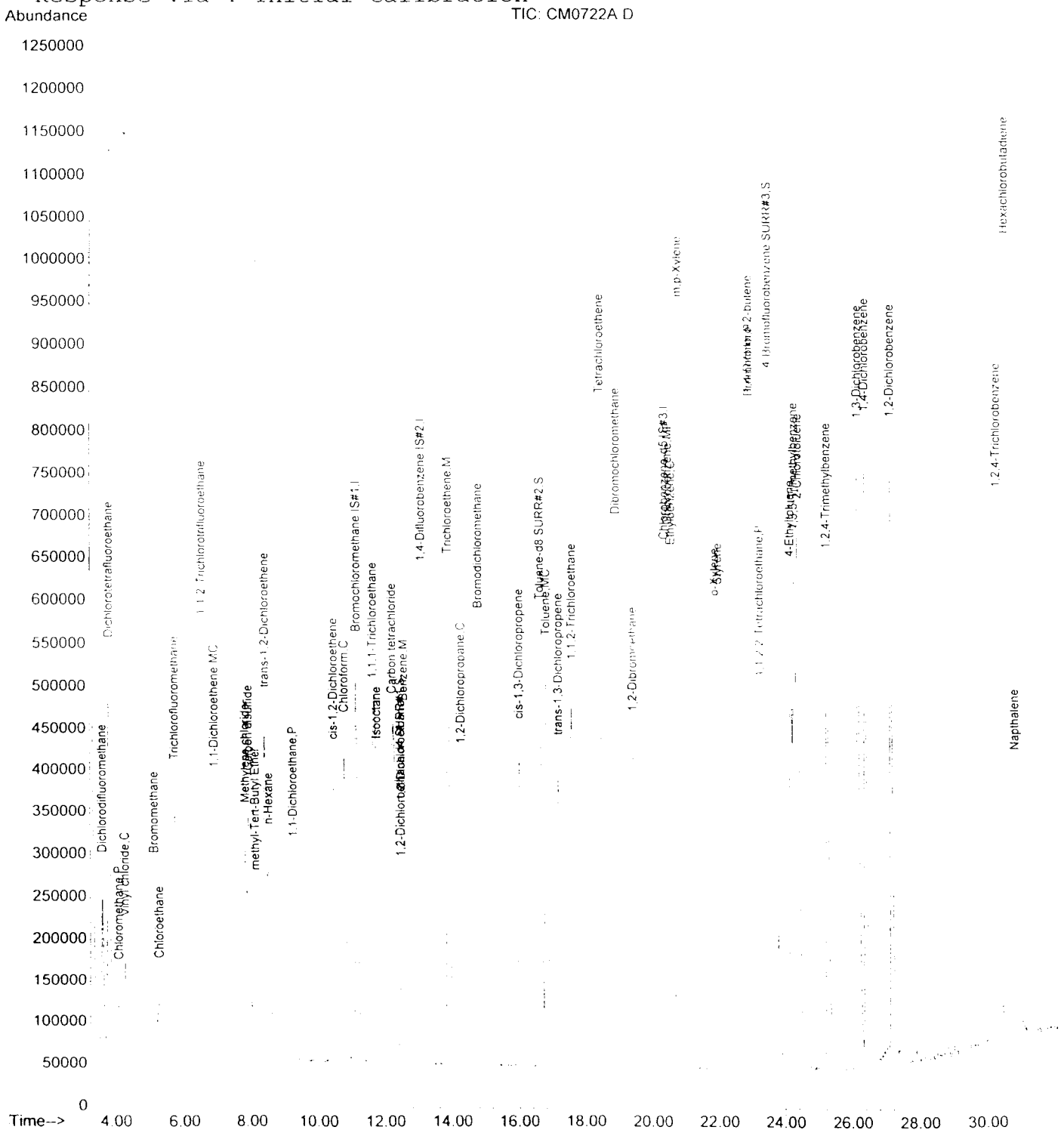
Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Thu Jul 11 10:01:57 2002
Response via : Initial Calibration
DataAcq Meth : TO14S

	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
CM0722A.D TO14S.M Mon Jul 22 10:29:30 2002 Page 2

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: 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



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%

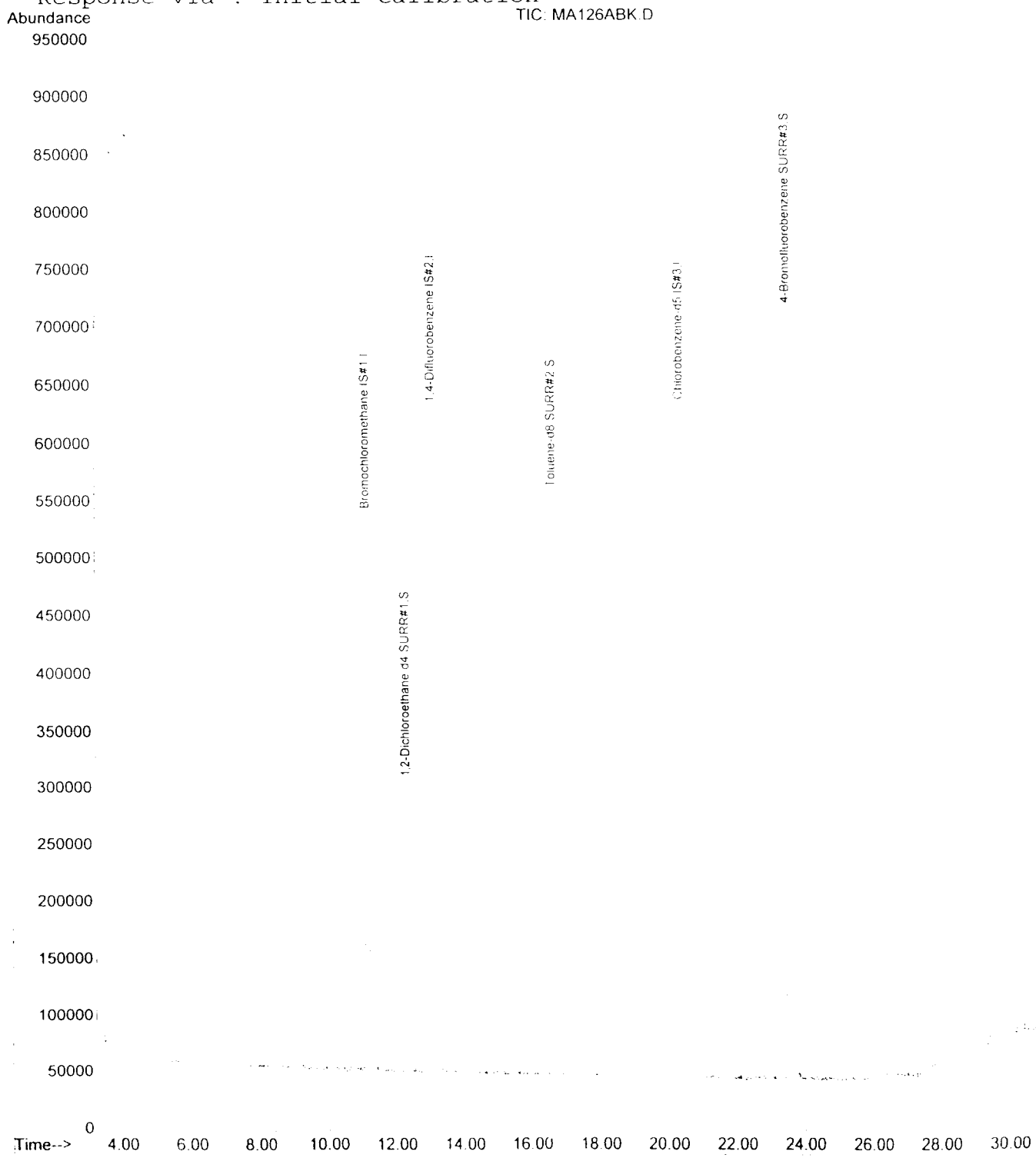
System Monitoring Compounds					
23) 1,2-Dichloroethane d4 SURR	12.31	65	426342	252.26 ng	0.00
Spiked Amount 250.000 Range 61 - 140 Recovery = 100.90%					
32) Toluene-d8 SURR#2	16.64	98	1214324	245.58 ng	0.00
Spiked Amount 250.000 Range 90 - 109 Recovery = 98.23%					
46) 4-Bromofluorobenzene SURR#	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 NDF	# 64

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

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



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

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

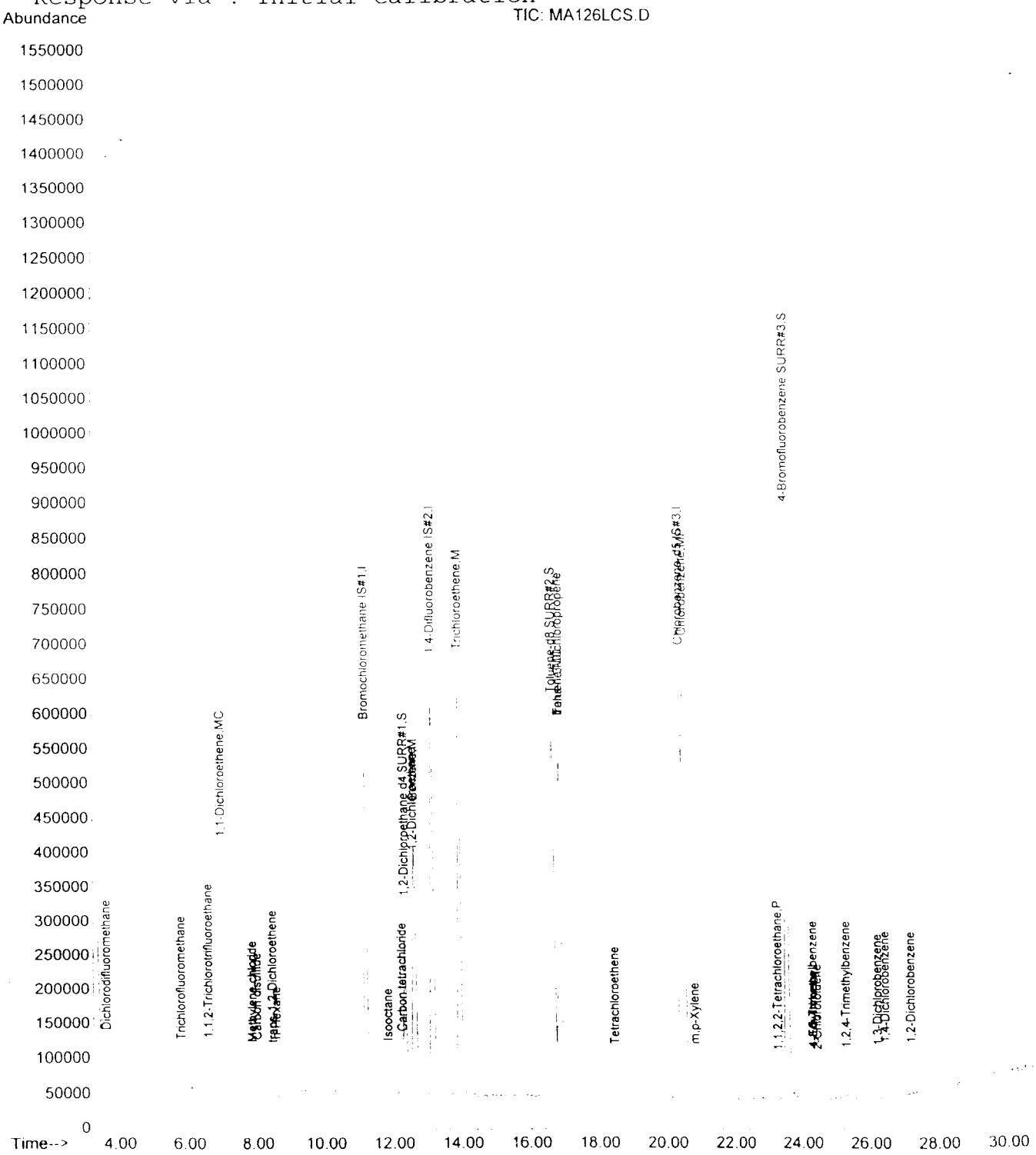
Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Jul 22 10:42:36 2002
Response via : Initial Calibration
DataAcq Meth : TO14S

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 Page 2

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

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



Data File : D:\HPCHEM\1\DATA02\M0722A\74051.D Vial: 1
Acq On : 22 Jul 2002 14:56 Operator: BDH
Sample : 062SVEEA07150230\ 07405-1 ST. 500mls Inst : MARILYN
Misc : MA126ABK Multiplr: 0.004
MS Integration Params: rteint.p
Quant Time: Jul 22 15:42 2002 Quant Results File: TO14S.RES

Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Jul 22 10:42:36 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	11.21	128	410353	250.00 ng	0.05 102.07%
26) 1,4-Difluorobenzene IS#2	13.15	114	1675109	250.00 ng	0.05 102.84%
36) Chlorobenzene-d5 IS#3	20.43	117	1249962	250.00 ng	0.05 101.32%

System Monitoring Compounds

23) 1,2-Dichloroethane d4 SURR	12.34	65	430736	250.02 ng	0.03
Spiked Amount 250.000	Range 61 - 140		Recovery = 100.01%		
32) Toluene-d8 SURR#2	16.69	98	1282521	248.38 ng	0.05
Spiked Amount 250.000	Range 90 - 109		Recovery = 99.35%		
46) 4-Bromofluorobenzene SURR#	23.55	95	1001803	241.06 ng	0.03
Spiked Amount 250.000	Range 87 - 112		Recovery = 96.42%		

Target Compounds Qvalue

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

Data File : D:\HPCHEM\1\DATA02\M0722A\74051.D Vial: 1
Acq On : 22 Jul 2002 14:56 Operator: BDH
Sample : 062SVEEA07150230\ 07405-1 ST. 500mls Inst : MARILYN
Misc : MA126ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 22 15:29 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 original
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	11.21	128	410353	250.00 ng	0.05 102.07%
26) 1,4-Difluorobenzene IS#2	13.15	114	1675109	250.00 ng	0.05 102.84%
36) Chlorobenzene-d5 IS#3	20.43	117	1249962	250.00 ng	0.05 101.32%

System Monitoring Compounds

23) 1,2-Dichloroethane d4 SURR	12.34	65	430736	250.02 ng	0.03
Spiked Amount 250.000 Range 61 - 140 Recovery = 100.01%					
32) Toluene-d8 SURR#2	16.69	98	1282521	248.38 ng	0.05
Spiked Amount 250.000 Range 90 - 109 Recovery = 99.35%					
46) 4-Bromofluorobenzene SURR#	23.55	95	1001803	241.06 ng	0.03
Spiked Amount 250.000 Range 87 - 112 Recovery = 96.42%					

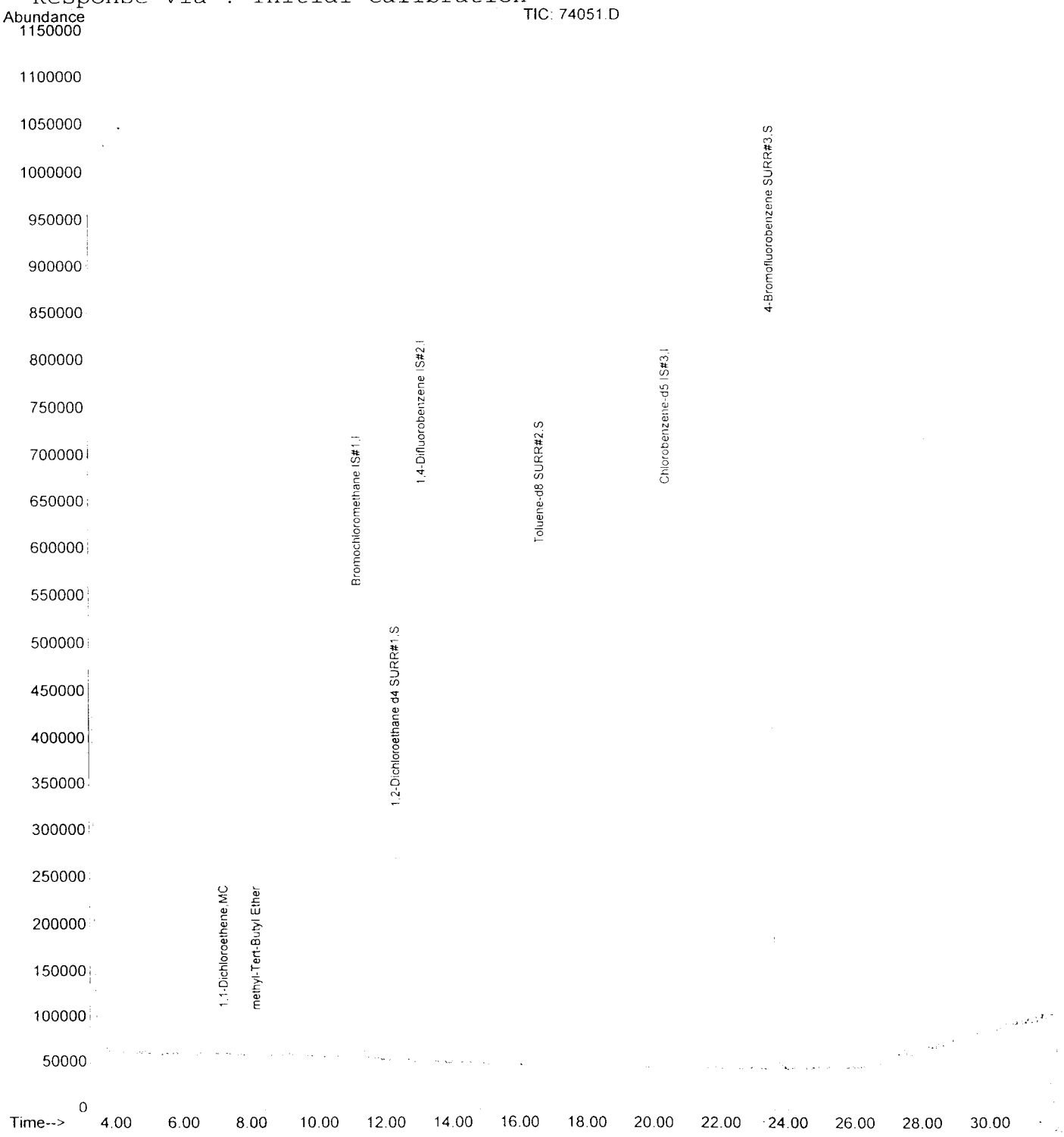
Target Compounds

					Qvalue
10) 1,1-Dichloroethene	7.19	96	984	NSF 0.63 ng	# 1
14) methyl-Tert-Butyl Ether	8.15	73	940	0.31 ng	# 52

(#) = qualifier out of range (m) = manual integration
74051.D TO14S.M Mon Jul 22 15:29:07 2002 Page 1

Data File : D:\HPCHEM\1\DATA02\M0722A\74051.D Vial: 1
Acq On : 22 Jul 2002 14:56 Operator: BDH
Sample : 062SVEEA07150230\ 07405-1 ST. 500mls Inst : MARILYN
Misc : MA126ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 22 15:29 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



STL Pensacola / GCMS Volatiles Run Log

New TO14 Curve

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

tch MAB121 1 2 3 Batch 1 2 3 Maint.

8 -MSW- 34 - 1 TO14 8 -MSW- 32 - 1 AIR-SPK 8 -MSW- 36 - 2

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

TIME	POS	METH	FILE NAME/ SAMPLE ID	DIL.	RR	PRES	MATRIX	QC PASS	*INIT	COMMENTS
0:51	#13	BFBSTL	BFM0709A	50ppb		N/A	W	Yes	~~BAH~~	Daily 12 hour BFB Tune
~~1:14~~	~~BA~~ 7/9 14	TO14S.m	CM0709A	250ng			W	Yes	~~BAH~~	Daily Cal Check ~~BFB tune~~ (not needed) File CMA0250 used for CCV
1:14	15		MAB121A BK	ST						Daily Method Blank
8:04	16		MAB121 LCS	50ppb						Batch 121 LCS / 2nd Source
2:19	14		CMA0025	25ng		Y N				5ppb-ICAL
2:57	14		0100	100ng		Y N				20ppb-
3:34	14		0250	250ng		Y N				50ppb- (and CCV)
4:10	14		0500	500ng		Y N				100ppb-
—	14	BFBSTL	BLKTUBE	—		Y N	—	—		Port. #14 Carry-over clean-up
5:12	14	TO14S.m	CMA1000	1000ng		Y N	W	Yes		200ppb-ICAL
—	14	BFBSTL	BLKTUBE	—		Y N	—	—		Port #14 Carry-over cleanup
6:12	14	TO14S.m	CMA1500	1500ng		Y N	W	Yes		300ppb-ICAL
—	14	BFBSTL	BLKTUBE	—		Y N	—	—		Port #14 Carry-over cleanup
7:10	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 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

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

tch MA126 (1) 2 3 Batch _____ 1 2 3

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

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

TIME	POS	METH	FILE NAME/ SAMPLE ID	DIL.	RR	PRES	MATRIX	QC PASS	*INIT	COMMENTS
8:58	#13	BFBSTL	~~BFM0722A~~	250ng			W		BDH	
9:57	14	To14Sim	CM0722A	50ppb			W	Yes	BDH	Daily Cal Check / BFB tune
:49	15		MA126A BK	ST						Daily Method Blank
:23	16		MA126 LCS	50ppb						Batch# 126 LCS
:57	1		QC109	ST.		Y N	A (TO14)			QC Can Check #109 - passed
:32	1		7404-1	ST.		Y N				500mls
: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				

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

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

77 STL Pensacola
NAS Cecil Field, CTO-0062

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 BH 2/5/02

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

Standard I.D.: 8-MSW32-3
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	12.5 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: 4-11-07
Analyst: BDA

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 10-11-07

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-VN2-21 (IS)	A018031	6/04	2500 ug/ml	500 uls	50 ml	25 ug/ml
8-VN2-11 (Surr)	A017424	6/04	2500 ug/ml	500 uls	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-VN4-17	LB03455	3/03	2600	625	50	25 ug/ml
Tetrahydrofuran 8-VN4-11	LB00103	12/02	↓	↓	↓	↓
M,X,G 8-VN-3-14	LA99456	11/02				
502/504 8-VN-3-15	LA90534	10/03				
Freon 113 8-VN-3-13	LA93546	6/04				
Keytones 8-VN-3-16	LA97408	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

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
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	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's Mix 6	LB02915	Supelco	2000 µg/ml	3/21/02	5/03	3	8-VN 4-7
Freon 113	LB02826	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	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
VOM IS (TO14)	A012019	Restek	2500 µg/ml	3/21/02	3/05	3	8-VN 4-14
VOM 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	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	1000 µg/ml	7/8/02	5/04	3	8-VN 4-20
							-VN -
							-VN -
							-VN -
							-VN -
							-VN -
							-VN -
							-VN -

SEVERN TRENT STL

CASE NARRATIVE

Order: C209256
Project: CTO-0062, CECIL FIELD DAY TANK 1

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
C209256*1	062-SVE-E-A-0909-02-32	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

CGI NAVY RAC PMO
OCT 10 2002

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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, CECIL FIELD DAY TANK 1

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

Contract No.: CT0-0062
Invoice No: 400-15821
Invoice Amount: $200.00
Invoice Date: 25 SEP 2002

Terms: Net 30 Days
Federal Tax ID NO: 23-2919996
CODE: CH2M-CONST-GA-C-30RH-429

LOG NO: C209256

INVOICE

ITEM	SAMPLE IDENTIFICATION	MTRX	QTY	CAT NO	ANALYSIS	UNIT PRICE	PRICE/SAMP	TOTAL
1	062-SVE-E-A-0909-02-32	AI	1		Volatile Organic Compounds in Air (TO-14)	$165.00	$165.00	165.00
2	Method Blank	QC-A	5		Volatile Organic Compounds in Air (TO-14)			
	Lab Control Standard	QC-A						
	True Value	QC-A						
	Lab Control Standard	QC-A						
	Result	QC-A						
	Lab Control Standard % Recovery							
	LCS Accuracy Control Limit (%R)							
	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: C2-09256
Received: 12 SEP 02
Reported: 25 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, CECIL FIELD DAY TANK 1
Sampled By: Client
Code: 15282104

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , AIR SAMPLES	DATE/ TIME SAMPLED
09256-1	062-SVE-E-A-0909-02-32	09-09-02/14:50

PARAMETER	09256-1
Volatile Organic Compounds in Air (MOD-TO14)	
Benzene, mg/m3	0.069U
Bromodichloromethane, mg/m3	0.069U
Bromoform, mg/m3	0.069U
Bromomethane (Methyl bromide), mg/m3	0.069U
Carbon disulfide, mg/m3	0.069U
Carbon tetrachloride, mg/m3	0.069U
Chlorobenzene, mg/m3	0.069U
Chloroethane, mg/m3	0.069U
Chloroform, mg/m3	0.069U
Chloromethane (Methyl chloride), mg/m3	0.069U
2-Chlorotoluene, mg/m3	0.069U
Dibromochloromethane, mg/m3	0.069U
1,2-Dibromoethane (EDB), mg/m3	0.069U
1,2-Dichlorobenzene, mg/m3	0.069U
1,3-Dichlorobenzene, mg/m3	0.069U
1,4-Dichlorobenzene, mg/m3	0.069U
trans-1,4-Dichloro-2-butene, mg/m3	0.069U
Dichlorodifluoromethane, mg/m3	0.069U
1,1-Dichloroethane, mg/m3	0.069U
1,2-Dichloroethane, mg/m3	0.069U
1,1-Dichloroethene, mg/m3	0.069U
cis-1,2-Dichloroethene, mg/m3	0.069U
trans-1,2-Dichloroethene, mg/m3	0.069U
1,2-Dichloropropane, mg/m3	0.069U
cis-1,3-Dichloropropene, mg/m3	0.069U

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SEVERN TRENT STL

LOG NO: C2-09256
Received: 12 SEP 02
Reported: 25 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, CECIL FIELD DAY TANK 1
Sampled By: Client
Code: 15282104

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , AIR SAMPLES	DATE/ TIME SAMPLED
09256-1	062-SVE-E-A-0909-02-32	09-09-02/14:50

PARAMETER	09256-1
trans-1,3-Dichloropropene, mg/m3	0.069U
Dichlorotetrafluoroethane, mg/m3	0.069U
Ethylbenzene, mg/m3	0.069U
Hexane, mg/m3	0.099
4-Ethyltoluene, mg/m3	0.069U
Hexachlorobutadiene, mg/m3	0.069U
Methylene chloride (Dichloromethane), mg/m3	0.069U
Methyl t-butyl ether (MTBE), mg/m3	0.069U
Styrene, mg/m3	0.069U
1,1,2,2-Tetrachloroethane, mg/m3	0.069U
Tetrachloroethene, mg/m3	0.069U
Toluene, mg/m3	0.069U
1,2,4-Trichlorobenzene, mg/m3	0.069U
1,1,1-Trichloroethane, mg/m3	0.069U
1,1,2-Trichloroethane, mg/m3	0.069U
Trichloroethene, mg/m3	0.069U
Trichlorofluoromethane, mg/m3	0.069U
1,1,2-Trichloro-1,2,2-trifluoroethane, mg/m3	0.069U
1,2,4-Trimethylbenzene, mg/m3	0.069U
1,3,5-Trimethylbenzene, mg/m3	0.18
Vinyl chloride, mg/m3	0.069U
o-Xylene, mg/m3	0.069U
m&p-Xylene, mg/m3	0.14U
Surrogate - 1,2-Dichloroethane-d4	113 %
Surrogate - Toluene-d8	101 %
Surrogate - 4-Bromofluorobenzene	97 %

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SEVERN TRENT STL

LOG NO: C2-09256
Received: 12 SEP 02
Reported: 25 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, CECIL FIELD DAY TANK 1
Sampled By: Client
Code: 15282104

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , AIR SAMPLES	DATE/ TIME SAMPLED
09256-1	062-SVE-E-A-0909-02-32	09-09-02/14:50

PARAMETER	09256-1
Dilution Factor	1
Prep Date	09.16.02
Prep Time	15:11
Analysis Date	09.16.02
Analysis Time	15:11
Batch ID	MAA164
Prep Method	MOD-TO14
Analyst	LAD

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SEVERN TRENT STL

LOG NO: C2-09256
Received: 12 SEP 02
Reported: 25 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, CECIL FIELD DAY TANK 1
Sampled By: Client
Code: 15282104

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR AIR SAMPLES	DATE/ TIME SAMPLED
09256-2	Method Blank	
09256-3	Lab Control Standard True Value	
09256-4	Lab Control Standard Result	
09256-5	Lab Control Standard % Recovery	
09256-6	LCS Accuracy Control Limit (%R)	

PARAMETER	09256-2	09256-3	09256-4	09256-5	09256-6
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	---	---	---	---

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SEVERN TRENT STL

LOG NO: C2-09256
Received: 12 SEP 02
Reported: 25 SEP 02

Ms. Tatiana Romanova
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Atlanta, GA 30346

Client PO. No.: 2916

Contract No.: CT0-0062
Project: CTO-0062, CECIL FIELD DAY TANK 1
Sampled By: Client
Code: 15282104

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR AIR SAMPLES	DATE/ TIME SAMPLED
09256-2	Method Blank	
09256-3	Lab Control Standard True Value	
09256-4	Lab Control Standard Result	
09256-5	Lab Control Standard % Recovery	
09256-6	LCS Accuracy Control Limit (%R)	

PARAMETER	09256-2	09256-3	09256-4	09256-5	09256-6
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

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SEVERN TRENT STL

LOG NO: C2-09256
Received: 12 SEP 02
Reported: 25 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, CECIL FIELD DAY TANK 1
Sampled By: Client
Code: 15282104

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR AIR SAMPLES	DATE/ TIME SAMPLED
09256-2	Method Blank	
09256-3	Lab Control Standard True Value	
09256-4	Lab Control Standard Result	
09256-5	Lab Control Standard % Recovery	
09256-6	LCS Accuracy Control Limit (%R)	

PARAMETER	09256-2	09256-3	09256-4	09256-5	09256-6
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 Laboratories Inc.
STL Pensacola • 3355 McLemore Dr, Pensacola, FL 32514
Tel 850 474 1001 Fax 850 478 2671 • www.stl-inc.com

A part of Severn Trent plc.

SEVERN TRENT STL

LOG NO: C2-09256
Received: 12 SEP 02
Reported: 25 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: CTQ-0062, CECIL FIELD DAY TANK 1
Sampled By: Client
Code: 15282104

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR AIR SAMPLES	DATE/ TIME SAMPLED
09256-2	Method Blank	
09256-3	Lab Control Standard True Value	
09256-4	Lab Control Standard Result	
09256-5	Lab Control Standard % Recovery	
09256-6	LCS Accuracy Control Limit (%R)	

PARAMETER	09256-2	09256-3	09256-4	09256-5	09256-6

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 Laboratories Inc.
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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 5/30/01

3355 McLemore Drive • Pensacola, FL 32514 • Tel. 850 474 1001 • Fax: 850 478 2671 • www.stl-inc.com
STL Pensacola is part of Severn Trent Laboratories, Inc

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 subst[illegible] of the [illegible] samples from North Carolina that do not meet EPA requirements for sample collection, preservation or holding time [illegible] 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

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/[illegible]/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

STL Pensacola

PROJECT SAMPLE INSPECTION FORM

TRENT Environmental Leadership STL

Lab Order #: C209256 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 55594676

CAN 025

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: MHS **Date:** 9/12/02 **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.*

WORD\ELKINS\SAMPCTRL\PSIF.DOC September 11, 2002

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

C209256

CHAIN-OF-CUSTODY RECORD

COC NUMBER
163151-058

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 Day Tank 1	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.)
Day Tank 1 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-0909-02-32	SVE Effluent	A|R	09/09/02	14:50	III/C	14 Day	1									025	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 Swafford Mark Swafford	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, Cecil Field Day Tank 1

STL Pensacola

C2092516

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

32514-FL-US F3 PNSA

Deliver by:
12SEP02

Shipping Label

[redacted] | Find a Dropoff Location | Shipping History

[redacted] | Cancel Shipment | Edit Shipment Information

[redacted] Print Feature from your browser to send this page to your laser printer.
[redacted] along the horizontal line.
[redacted] and tape it to your shipment so that the barcode portion of the label can be read and s[redacted]

[redacted] please click "Shipment Details".

AIR VOLATILE CASE NARRATIVE

LABORATORY NAME: STL PENSACOLA
CASE NUMBER: NA
SDG#: 209256
PROJECT NAME: N.A.S. Cecil Field, Day Tank 1

RECEIVED: Sept. 12, 2002

CLIENT ID#	STL ID #	STL SAMPLE NAME IN PACKAGE
062-SVE-E-A-0909-02-32	209256-1	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 23, 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): CM0916A.D Date Analyzed : 16 Sep 2002
Instrument ID : MARILYN Time Analyzed : 10:44 am
GC Column : CAP ID : MARI Heated Purge (Y:N) : N
Level :

File	Sample	SMC1 #	SMC2 #	SMC3 #	SMC4 #	SMC5 #	SMC6 #	TOTAL OUT
92561	OS=09256-1 BT=A	113	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		Sample #	3	4	5	6
order #	209256					
Batch	MAA154	Actual	mg/m3	mg/m3		
		ng result	TRUE	RESULT	% REC	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

EPA SAMPLE NO.

VOLATILE METHOD BLANK SUMMARY

VBLKMA

Lab Name: STL PENSACOLA Contract: N/A

Lab Code: STL PN Case No.: N/A SAS No.: N/A SDG No.: C209256

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=09256-1 BT=A164 R	92561.D	15:11

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.: C209256

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.: C209256

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=09256-1 BT=A164 R	92561.D	9/16/02	15:11

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 ###
TO14S.M Mon Sep 23 10:23:06 2002 Page 1

Response Factor Report MARILYN

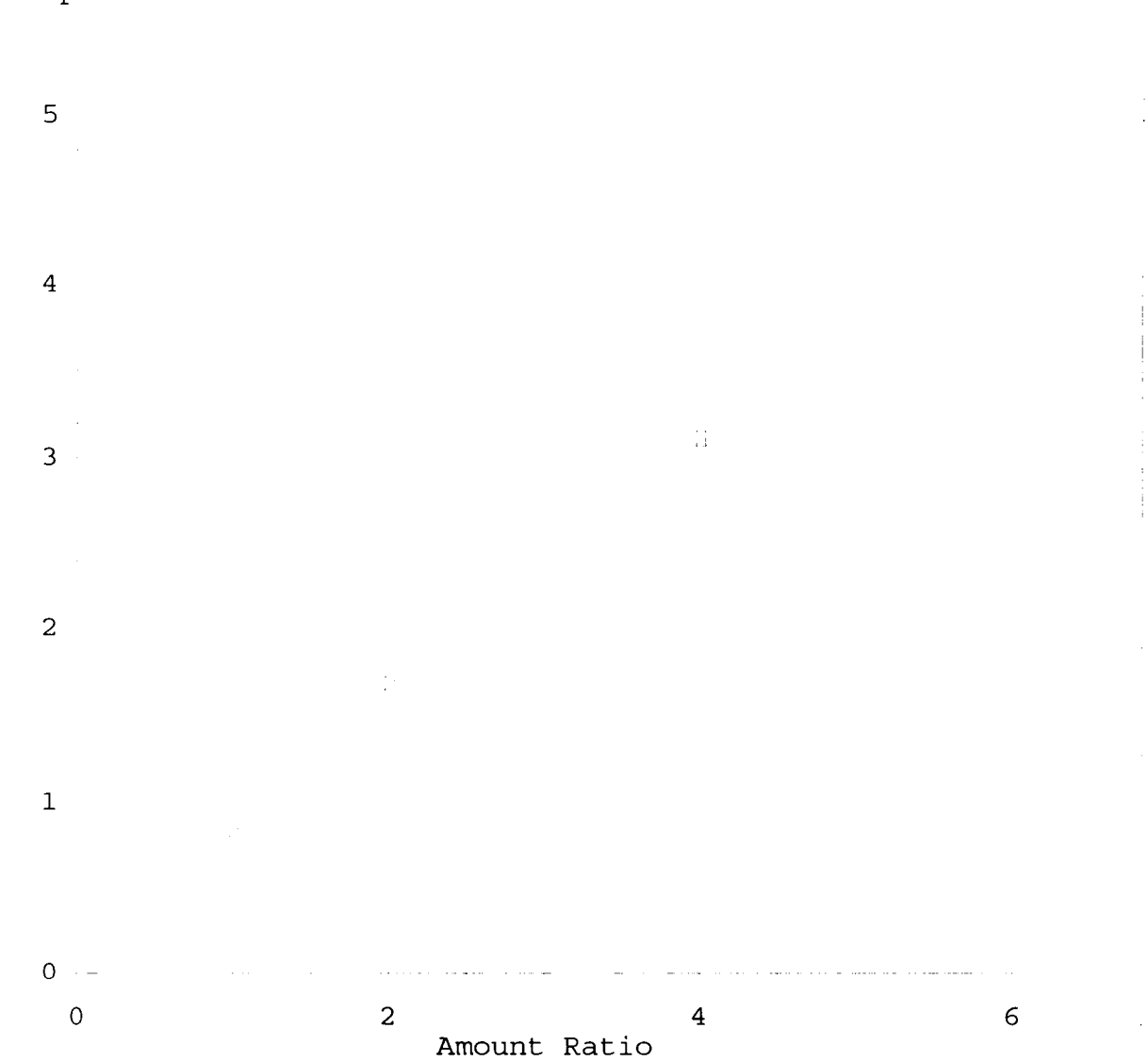
Method : D:\HPCHEM\1\METHODS\MARILYN\CRV080502 TO14\TO14S.M (RTE In
Title : TO14
Last Update : Mon Sep 23 10:22:09 2002
Response via : Initial Calibration

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

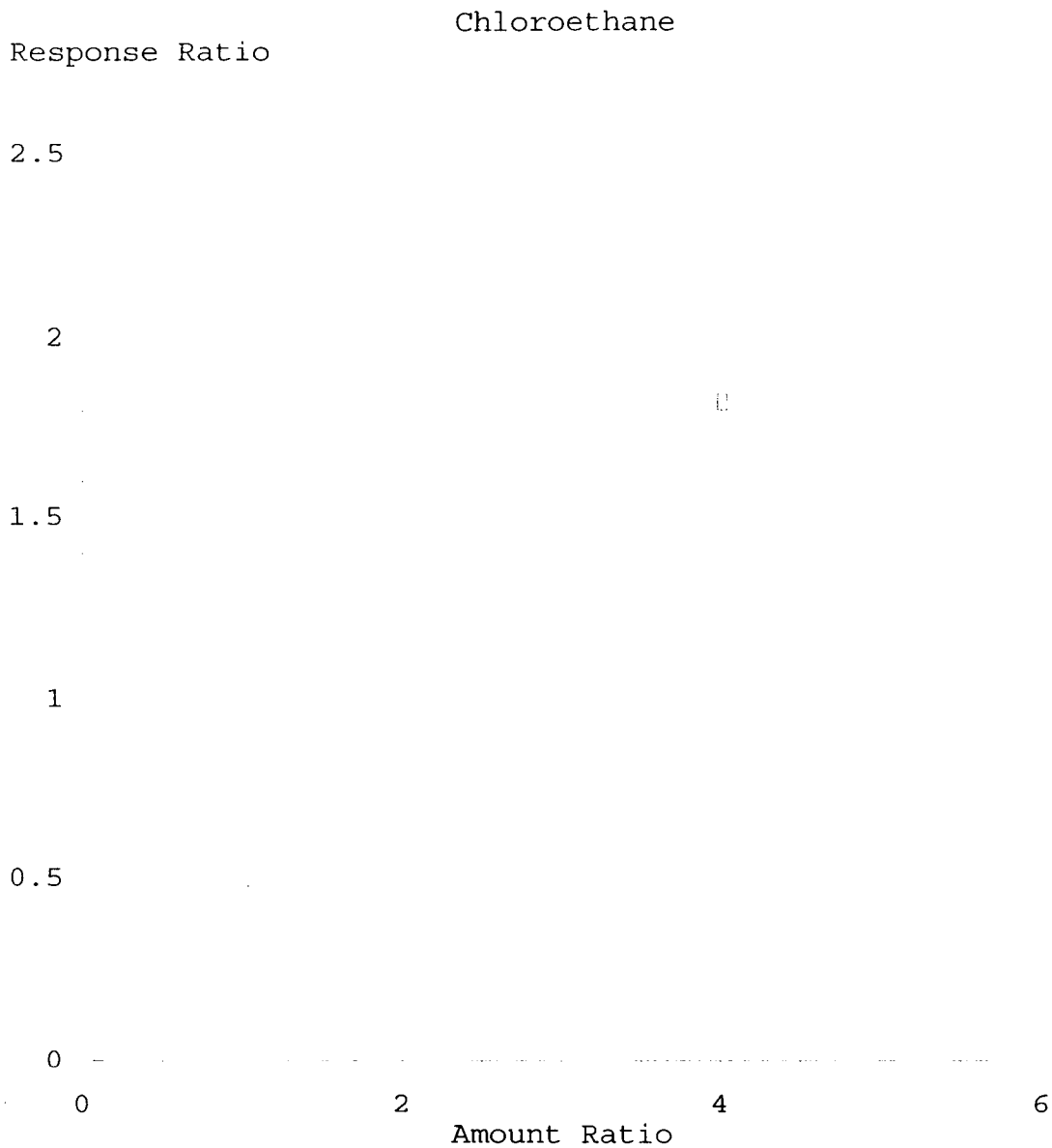
L = Linear LO = Linear+Origin Q = Quad QO = Quad+Origin R = Corr. Coef
(#) = Out of Range ### Number of calibration levels exceeded format ###

Dichlorodifluoromethane



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.: C209256

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	353557	11.06	1782758	12.99	1204731	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

Date 08/05/02 Instrument ID : MARIBIN Method : TO14 /8260AIR /8260WATER /624MOD

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. _____

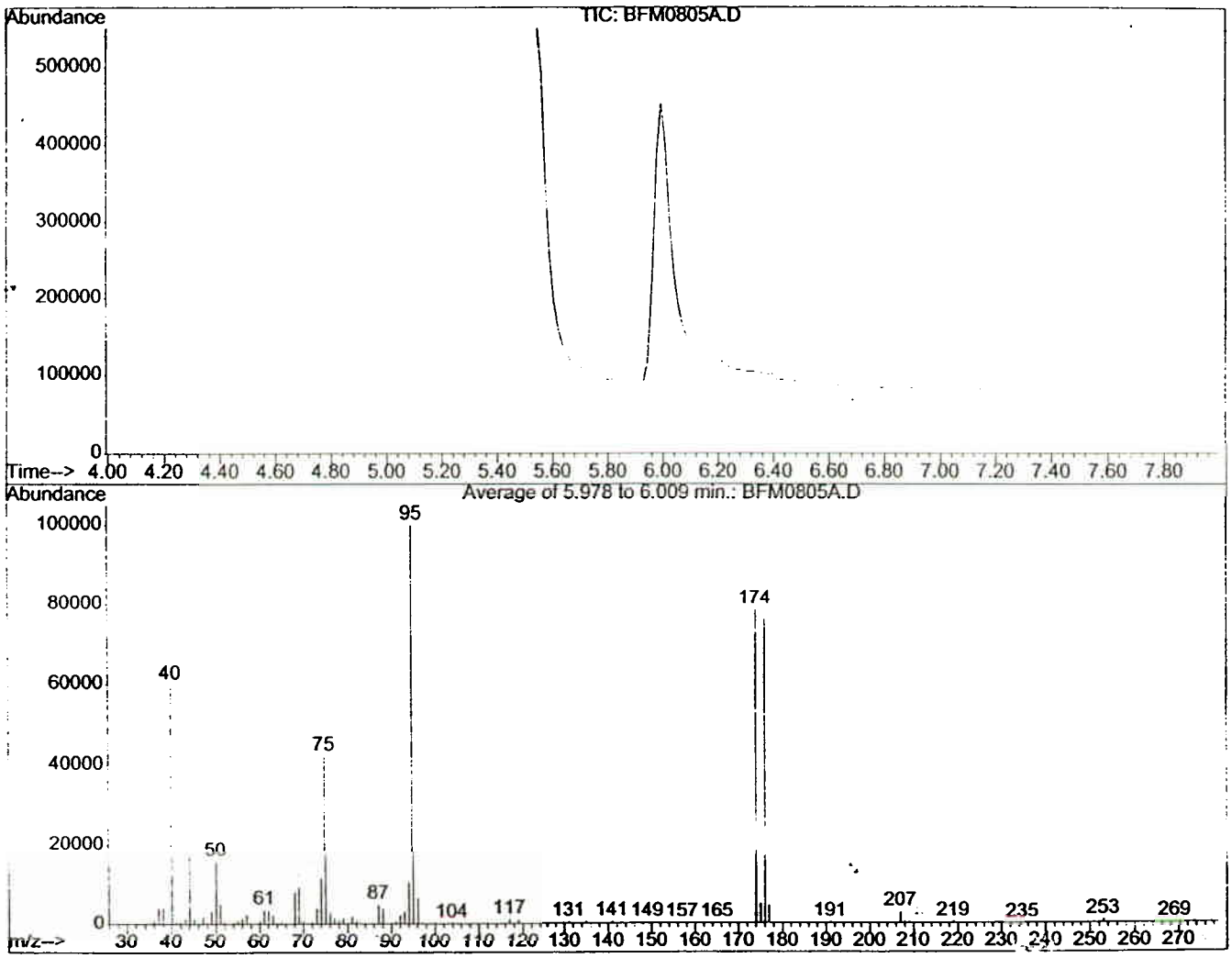
BFB 8 -MSW- 34 - 1 8260 -MSW- - W-SPK -MSW- -

TIME	POS	METH	FILE NAME/ SAMPLE ID	DIL.	RR	PRES	MATRIX	QC PASS**	*INIT	COMMENTS
13:21	#1	BFBSTL	BFM00054	50ppb			W		BOH	Daily 12 hour BFB Tune
14:33	3	To145.m	CMA 0250	50ppb			W		BOH	Daily Cal Check / ~~BFB tune~~ 8/5/5 /250ng ICAL too
13:55	2	To145.m	MA135 A BK	ST						Daily Method Blank
18:17	9		M A135 LCS	50ppb						Batch# 135 LCS
15:11	4		CMA0075	5ppb		Y N				75ng 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.

* Tag and surrogates were checked automatically using [illegible]

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 Inte
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 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

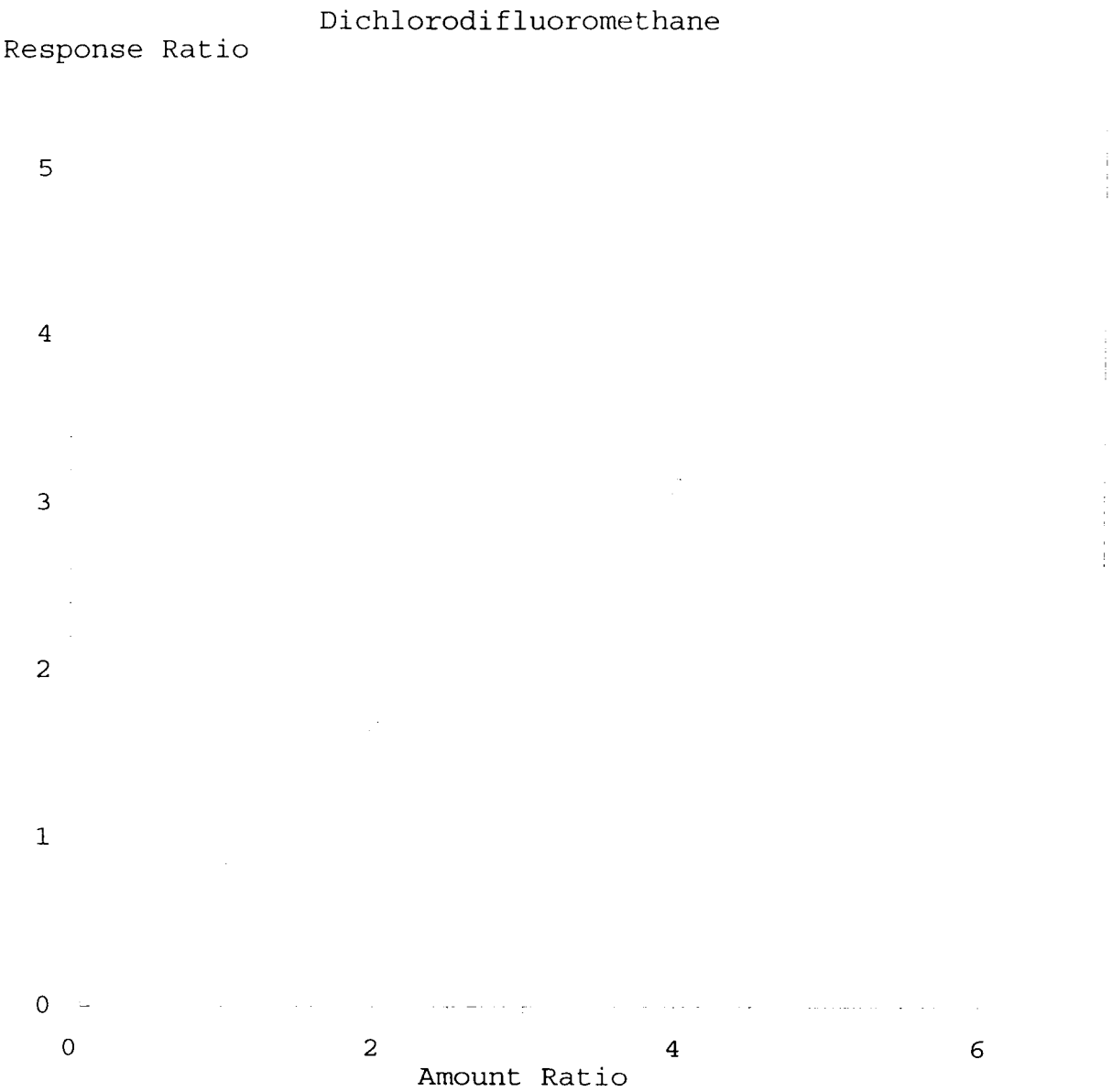
Method : D:\HPCHEM\1\METHODS\MARILYN\CRV080502 TO14\TO14S.M (RTE In
Title : TO14
Last Update : Mon Sep 23 10:22:09 2002
Response via : Initial Calibration

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

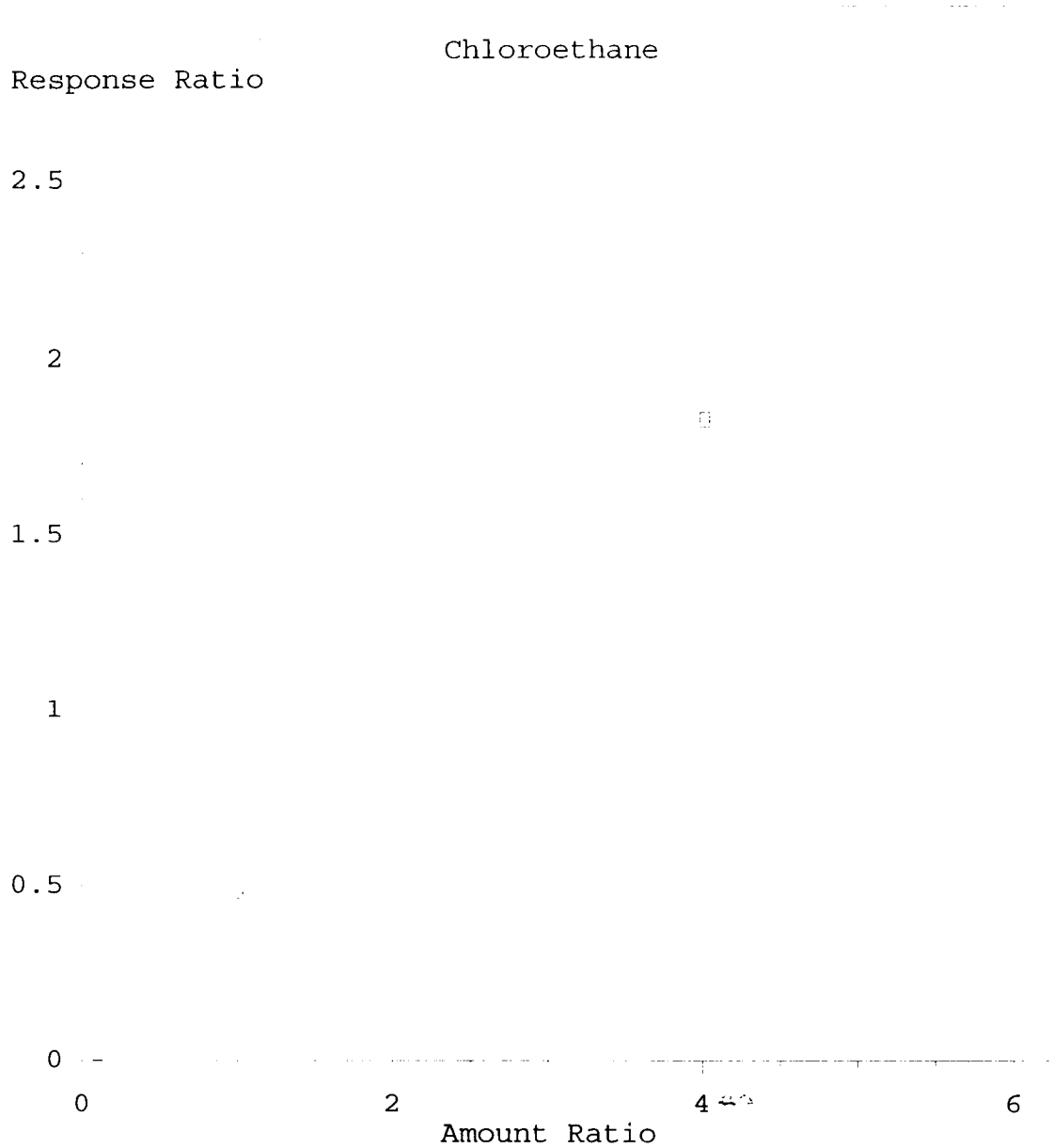
L = Linear LO = Linear+Origin Q = Quad QO = Quad+Origin R = Corr. Coef
(#) = Out of Range ### Number of calibration levels exceeded format ###
TO14S.M Mon Sep 23 10:23:35 2002 Page 2

Dichlorodifluoromethane



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
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

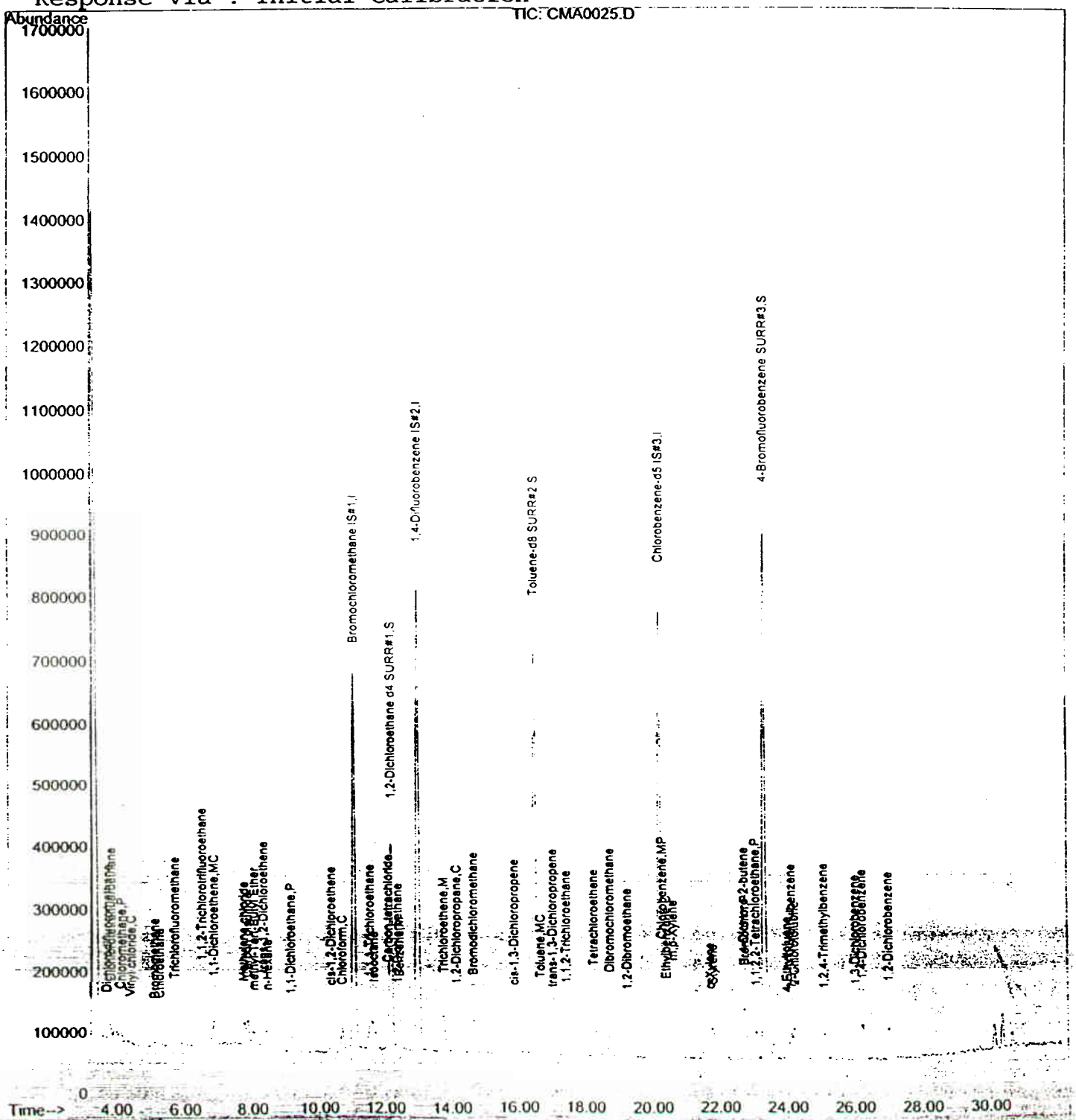
Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Aug 05 15:36:43 2002
Response via : Initial Calibration
DataAcq Meth : TO14S

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
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

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

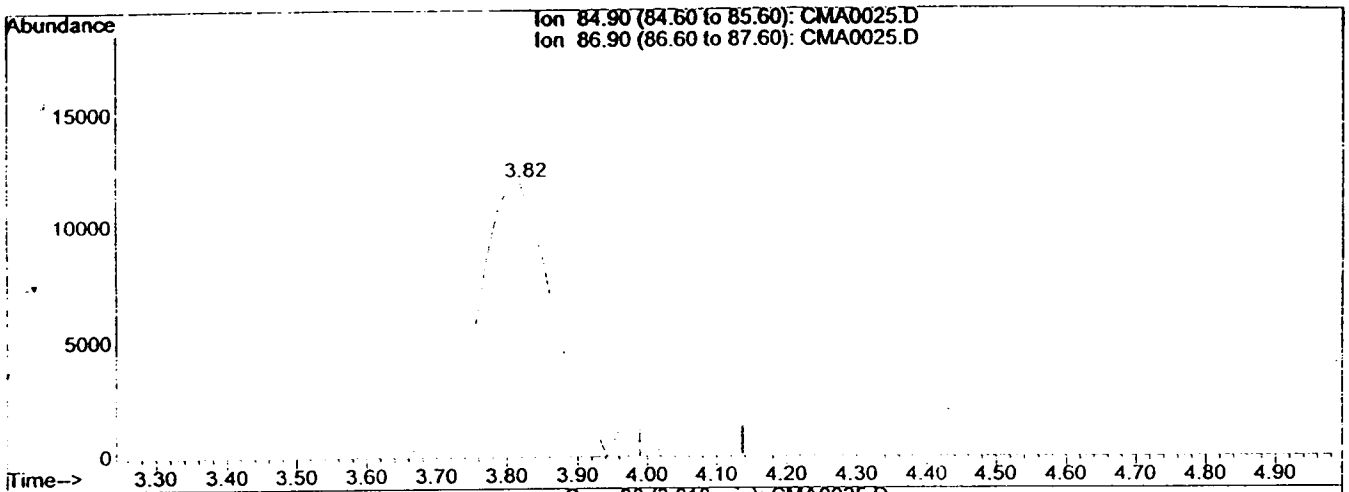
Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Tue Aug 06 09:02:44 2002
Response via : Initial Calibration

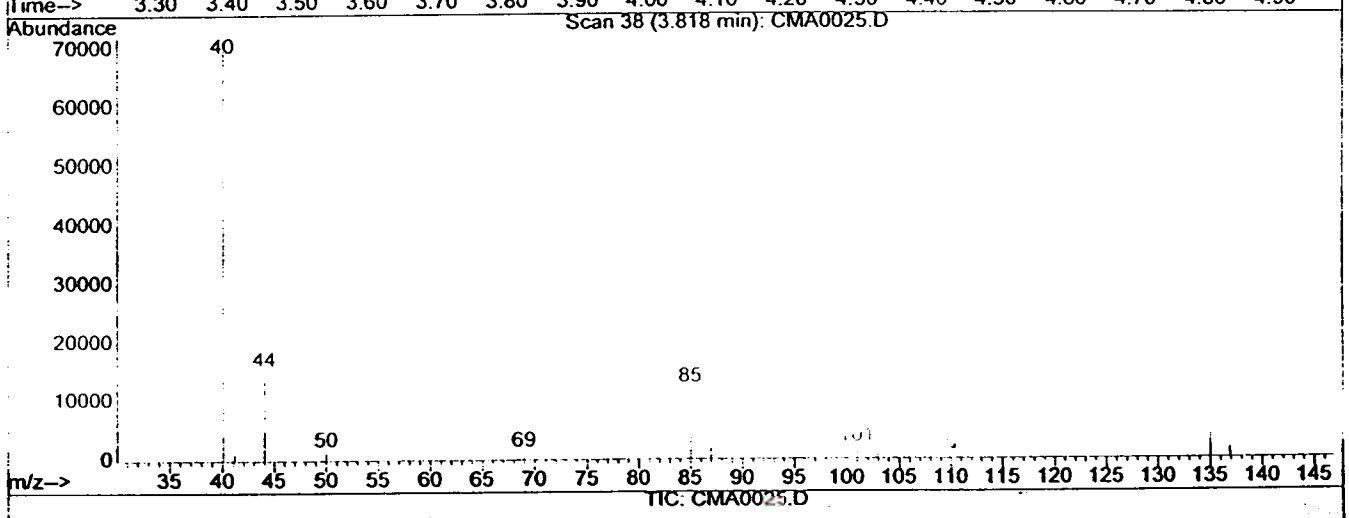


CMA0025.D TO14S.M Tue Aug 06 09:08:48 2002 Page

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 8:41 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

3.82min 72.09ng

response 118746

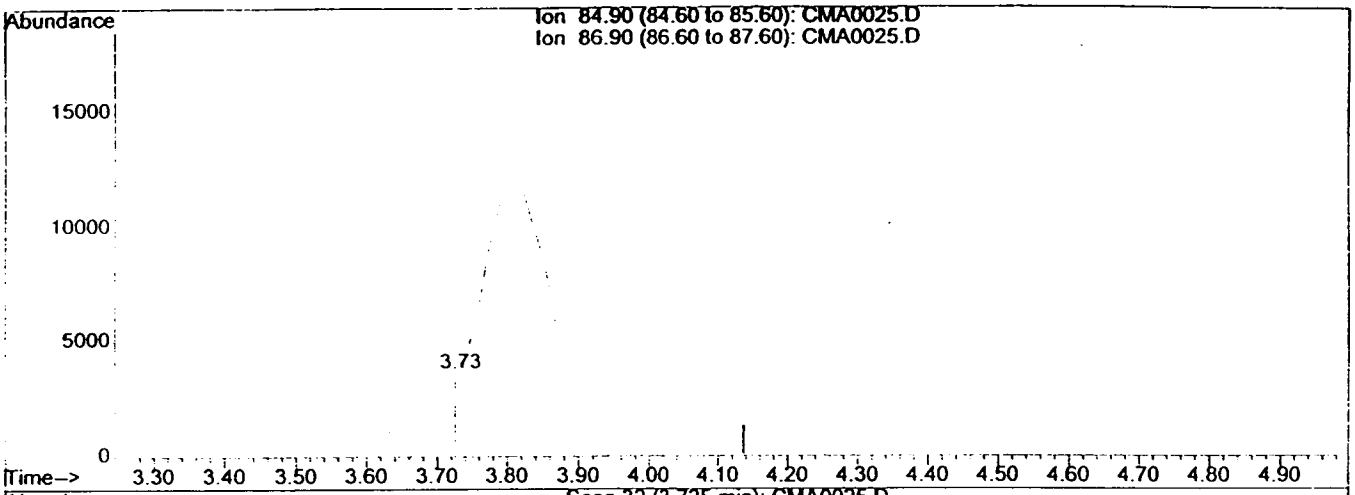
Ion	Exp%	Act%
84.90	100	100
86.90	33.50	29.70
0.00	0.00	0.00
0.00	0.00	0.00

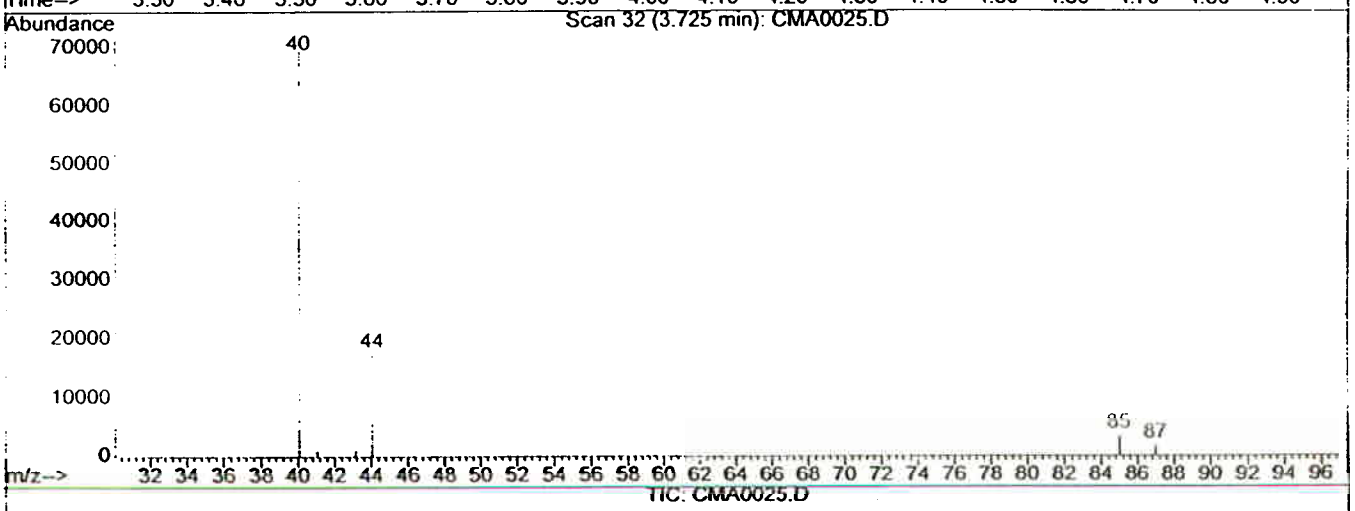
wrong peak

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.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

3.73min 14.27ng m

response 23511

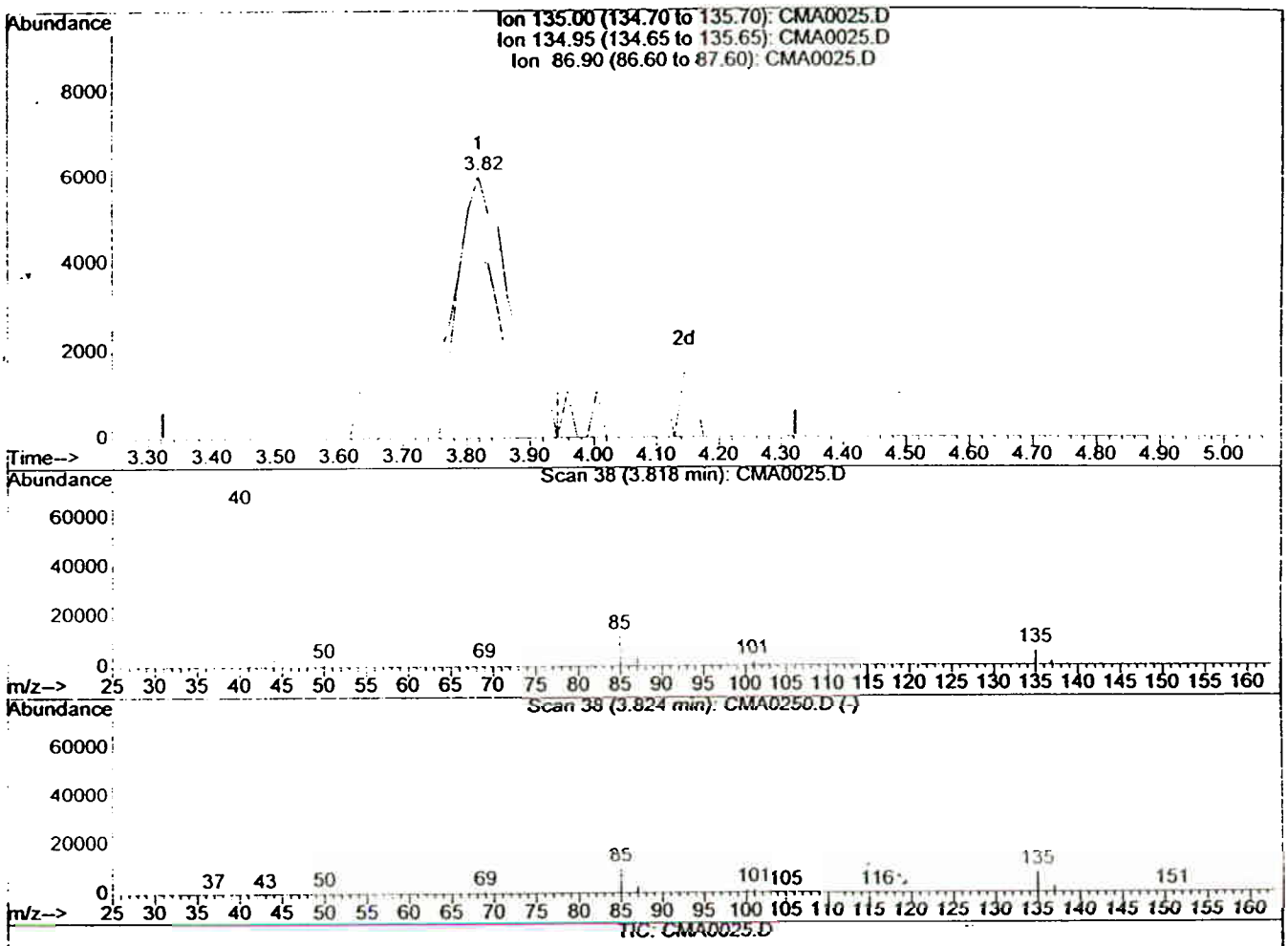
Ion	Exp%	Act%
84.90	100	100
86.90	33.50	149.99#
0.00	0.00	0.00
0.00	0.00	0.00

TJ 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.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 18.23ng

response 35714

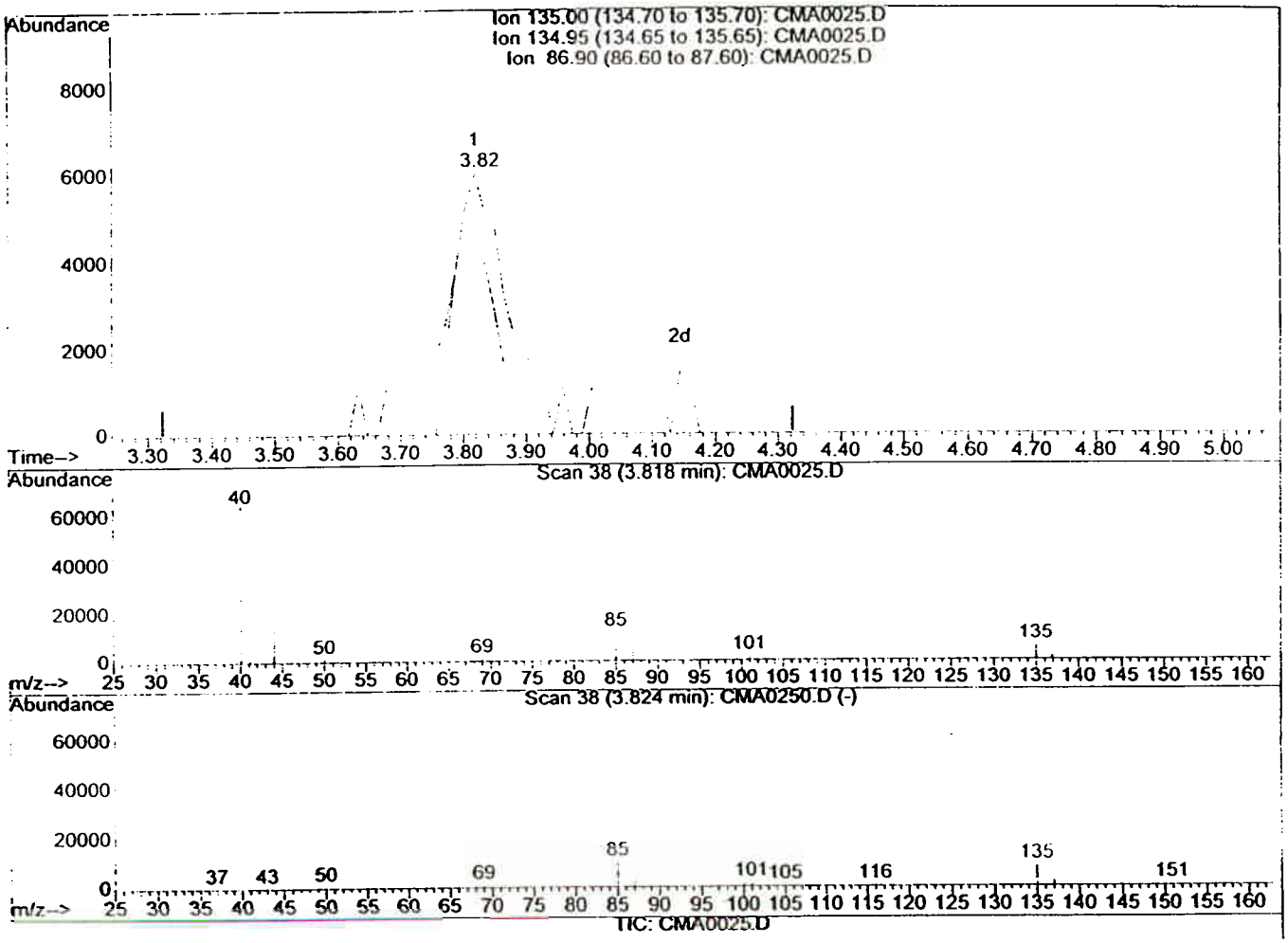
Ion	Exp%	Act%
135.00	100	100
134.95	56.30	100.00#
86.90	32.70	98.74#
0.00	0.00	0.00

Defore (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.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 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

after BAT 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	#	[illegible]
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 Mon Aug 05 15:43:48 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 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		9
29)	1,2-Dichloropropane	14.14	63	53636	22.52 ng		9
30)	Bromodichloromethane	14.65	83	123603	22.02 ng		10
31)	cis-1,3-Dichloropropene	15.87	75	83746	22.67 ng		9
33)	Toluene	16.66	92	82066	21.08 ng	#	9
34)	trans-1,3-Dichloropropene	17.01	75	70070	22.50 ng		9
35)	1,1,2-Trichloroethane	17.42	97	57189	23.12 ng		9
37)	Tetrachloroethene	18.26	164	67210	21.15 ng		9
38)	Dibromochloromethane	18.74	127	95791	23.49 ng	#	9
39)	Chlorobenzene	20.29	112	107446	20.49 ng		9
40)	Ethylbenzene	20.40	106	41895	20.30 ng		9
41)	m,p-Xylene	20.60	106	101034	37.73 ng		10
42)	o-Xylene	21.72	106	46397	17.94 ng		9
43)	Styrene	21.80	104	77440	17.52 ng		9
44)	Bromoform	22.74	173	106247	23.74 ng		9
45)	1,1,2,2-Tetrachloroethane	23.07	83	96850	26.91 ng	#	9
47)	1,4-Dichloro-2-butene	22.73	75	20485	26.54 ng	#	8
48)	4-Ethyltoluene	24.00	105	128518	19.73 ng	#	8
49)	1,3,5-Trimethylbenzene	24.13	105	85179	16.44 ng	#	8
50)	2-Chlorotoluene	24.22	91	126306	19.26 ng		9
51)	1,2,4-Trimethylbenzene	25.09	105	90654	17.12 ng		9
52)	1,3-Dichlorobenzene	26.04	146	77461	17.12 ng	#	9
53)	1,4-Dichlorobenzene	26.24	146	78283	16.58 ng	#	9
54)	1,2-Dichlorobenzene	27.01	146	71720	16.98 ng	#	9
55)	1,2,4-Trichlorobenzene	30.15	180	46712	Below Cal		9
56)	Napthalene	30.68	128	72114	Below Cal	#	8
57)	Hexachlorobutadiene	30.38	225	36641	Below Cal		9

(#) = qualifier out of range (m) = manual integration
CMA0025.D TO14S.M Mon Aug 05 15:43:48 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 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.[illegible]			
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 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

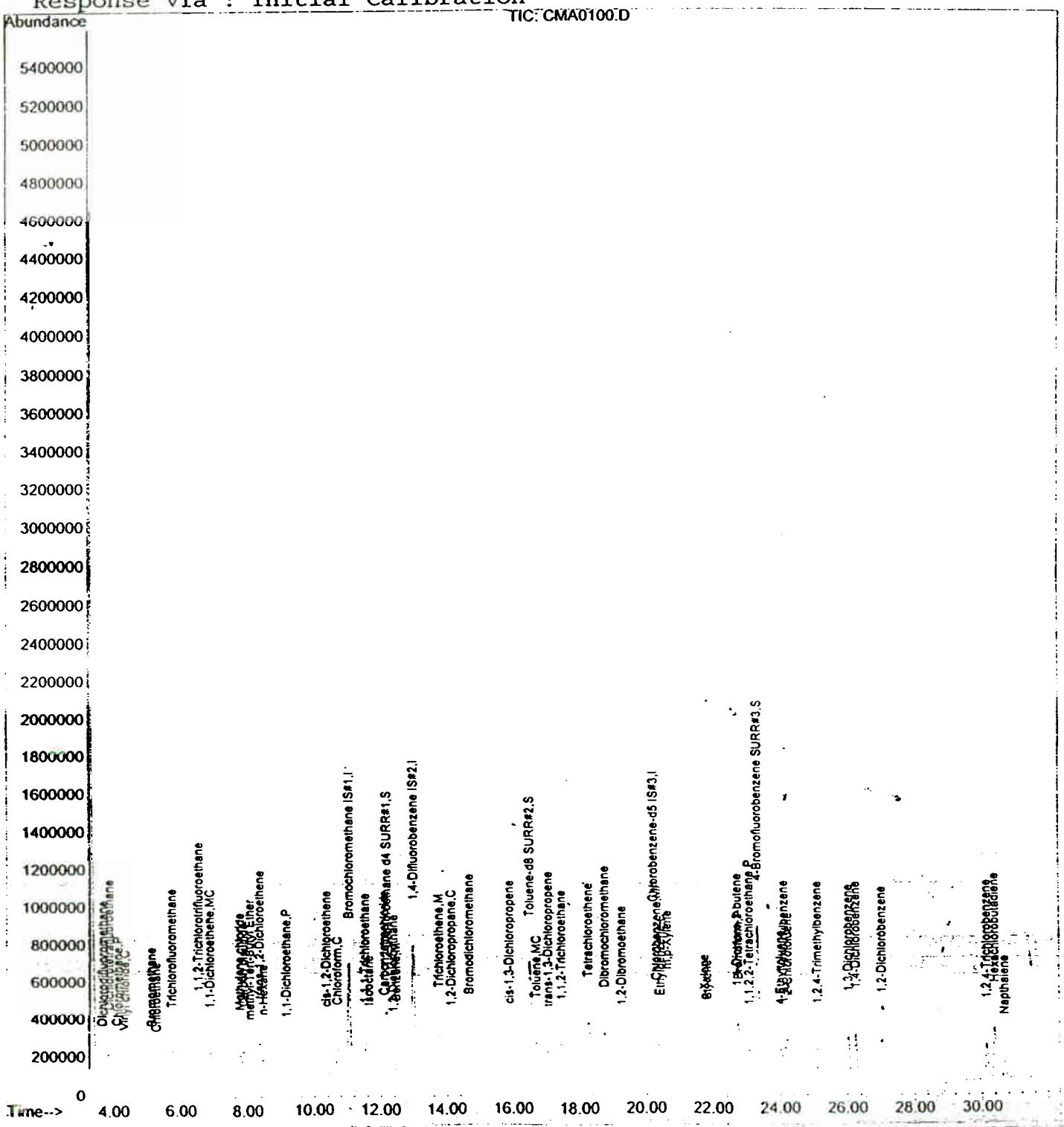
Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Aug 05 15:54:06 2002
Response via : Initial Calibration
DataAcq Meth : TO14S

	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

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

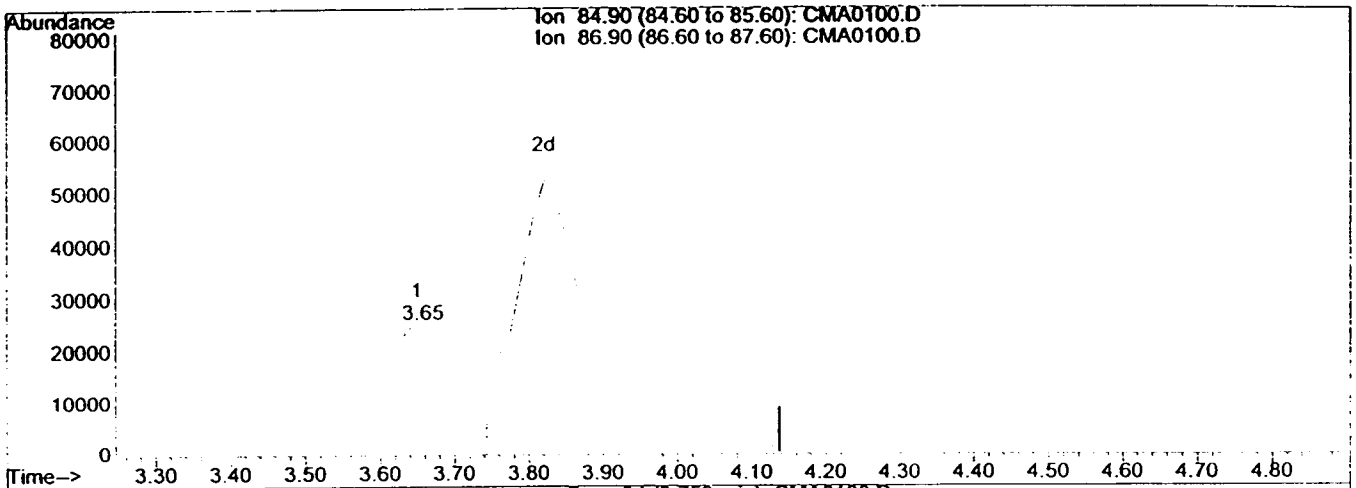
Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Tue Aug 06 09:02:44 2002
Response via : Initial Calibration

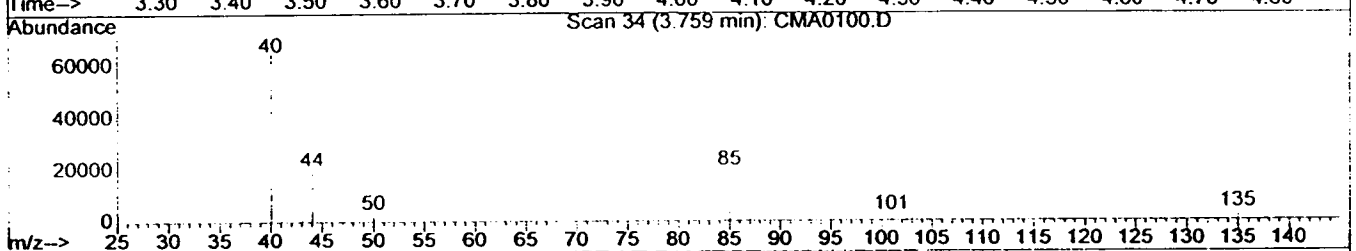


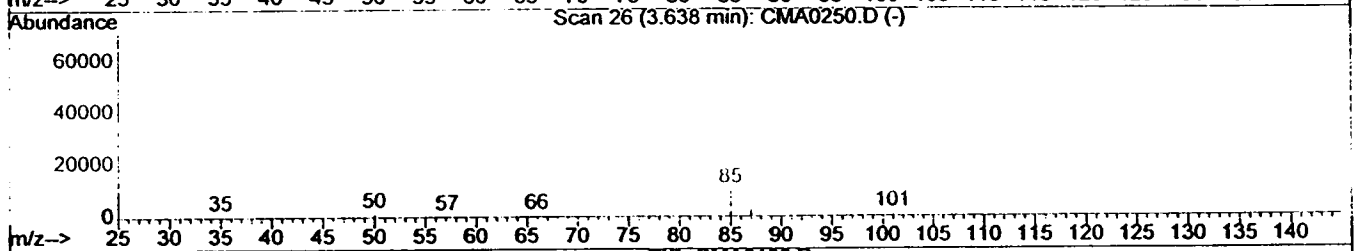
CMA0100.D TO14S.M Tue Aug 06 09:10:57 2002 Page 3

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 : Tue Aug 06 08:35:03 2002
Response via : Multiple Level Calibration







TIC: CMA0100.D

(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)

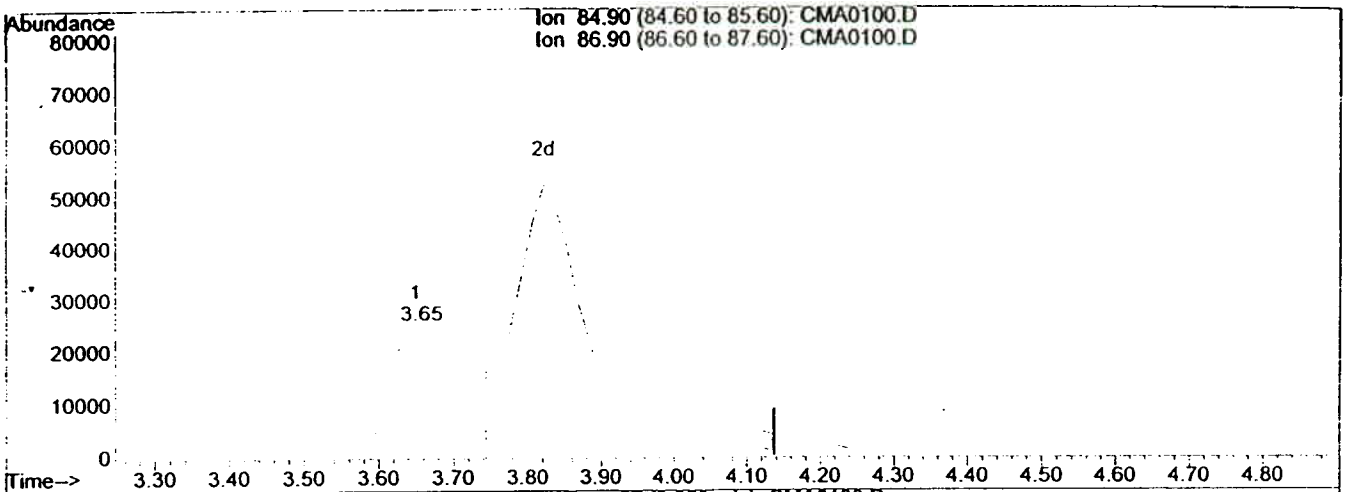
CMA0100.D TO14S.M Tue Aug 06 08:45:20 2002

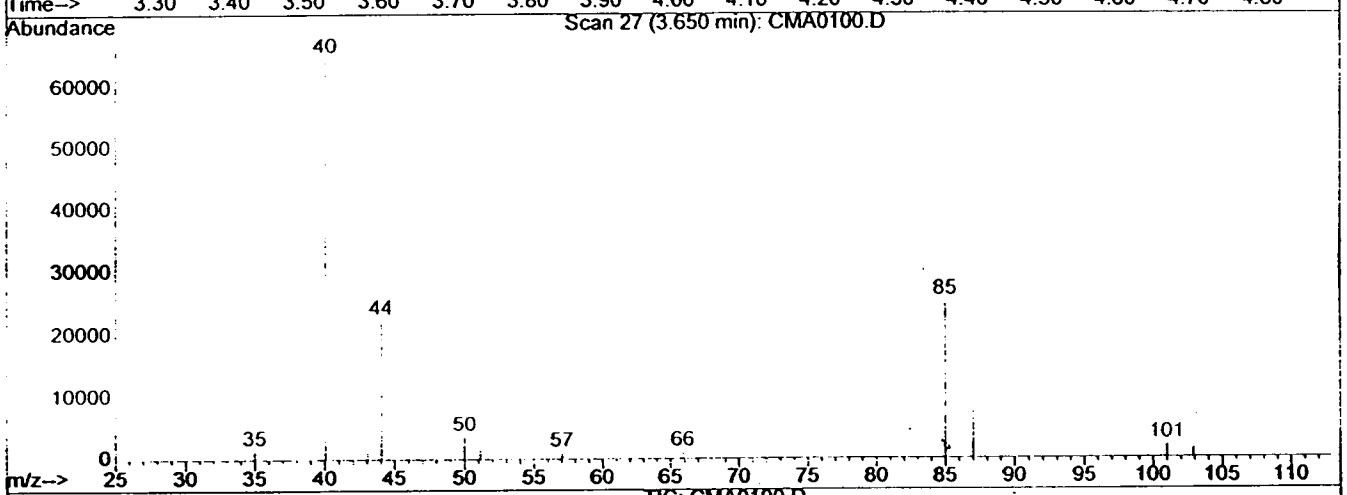
Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0100.D
Acq On : 5 Aug 2002 15:48
Sample : 100ng/4uL/20ppb INITIAL CALIB.
Misc : Pi/Pf=1 MA135ABK
MS Integration Params: rteint.p
Quant Time: Aug 6 9:10 2002

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

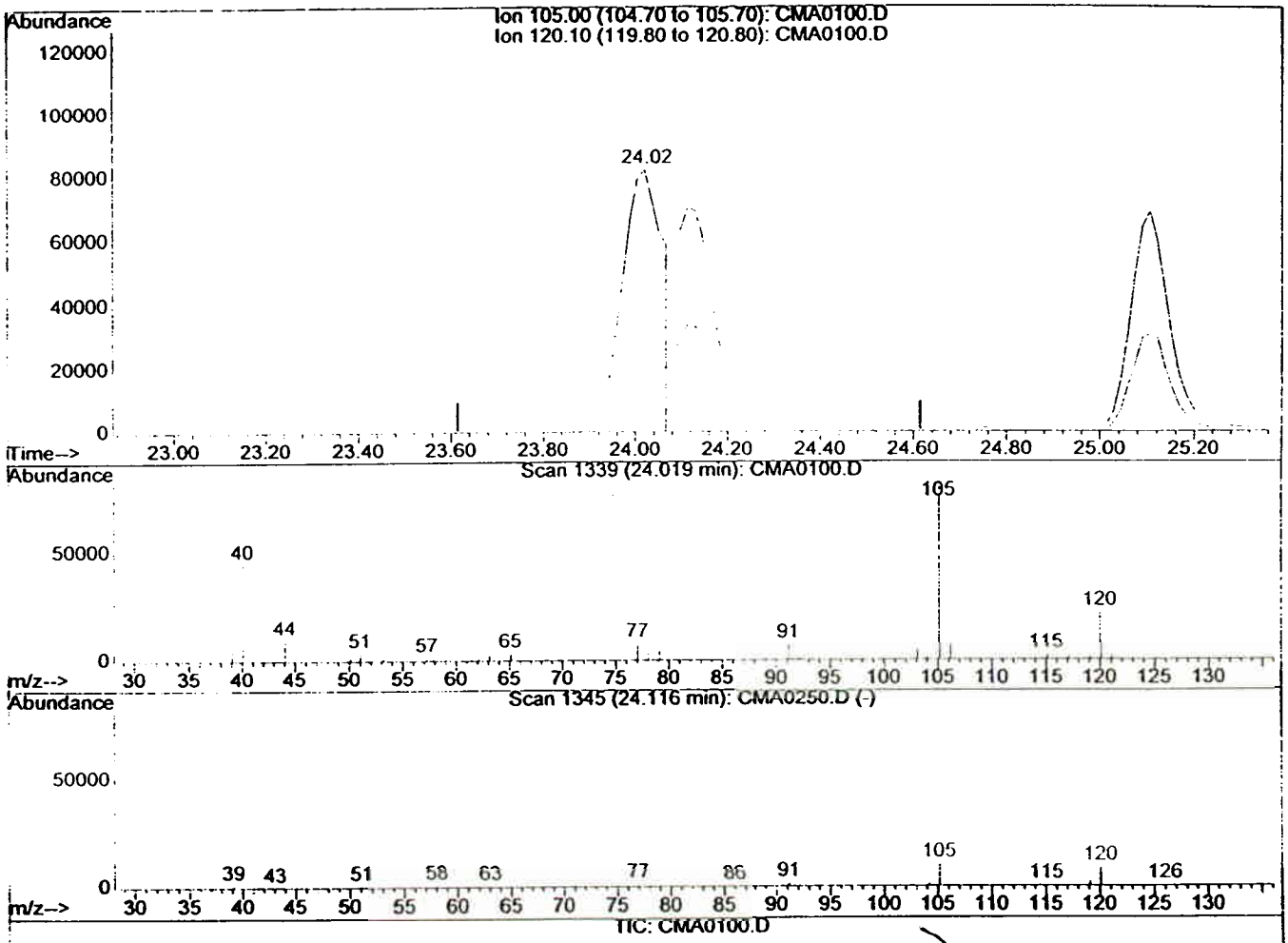
Ion	Exp%	Act%
84.90	100	100
86.90	33.50	32.15
0.00	0.00	0.00
0.00	0.00	0.00

Kept
TMS 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.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



(49) 1,3,5-Trimethylbenzene

24.02min 100.71ng

response 493499

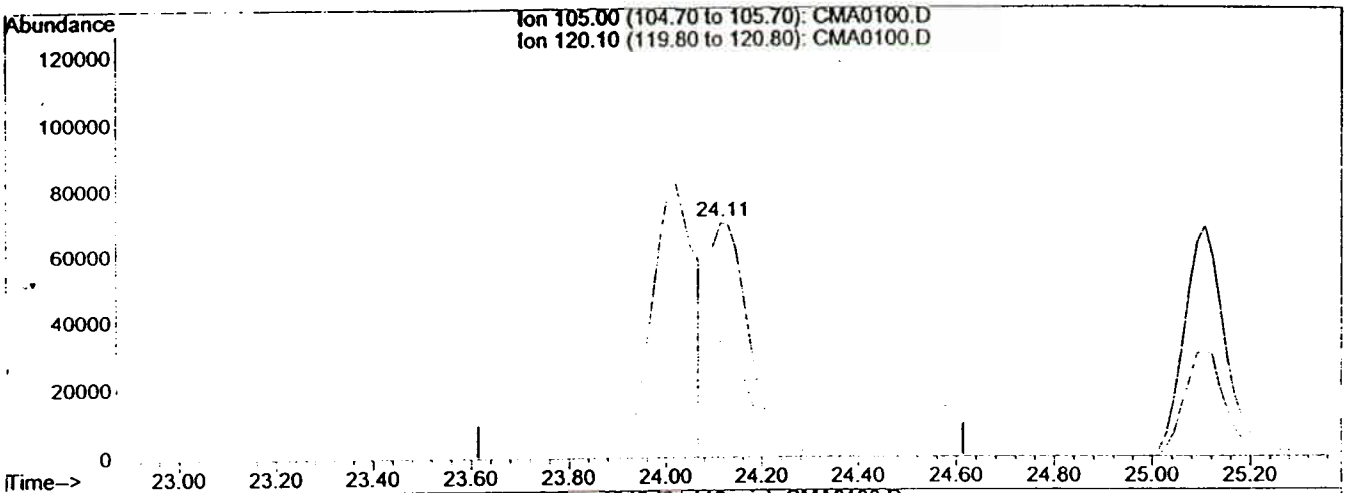
Ion	Exp%	Act%
105.00	100	100
120.10	46.70	20.79#
0.00	0.00	0.00
0.00	0.00	0.00

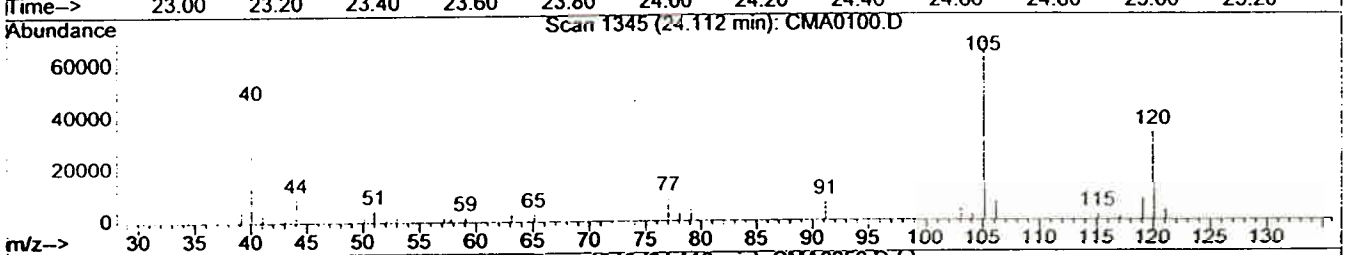
before (mis-integrated)

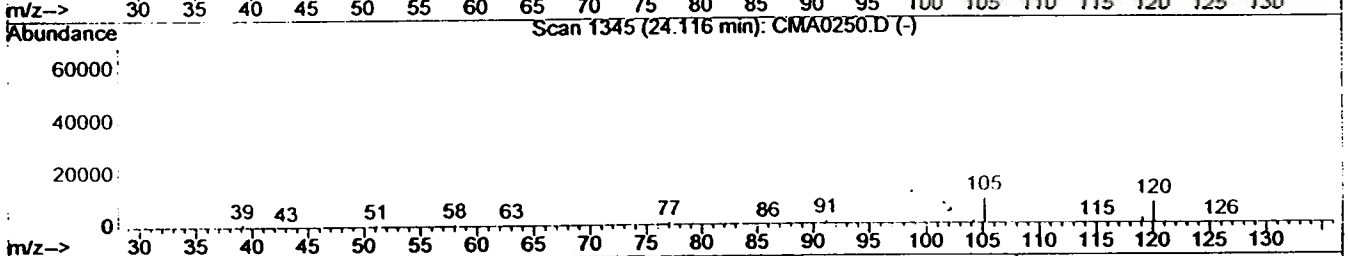
CMA0100.D TO14S.M Mon Aug 05 16:25:34 2002

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.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

24.11min 88.37ng m

response 432997

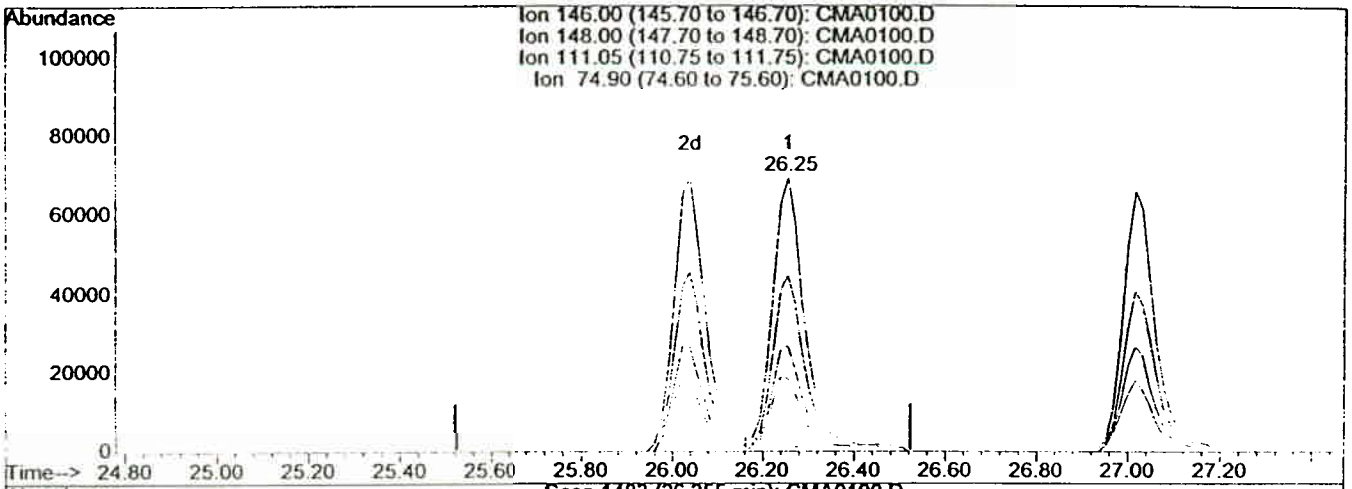
Ion	Exp%	Act%
105.00	100	100
120.10	46.70	23.69#
0.00	0.00	0.00
0.00	0.00	0.00

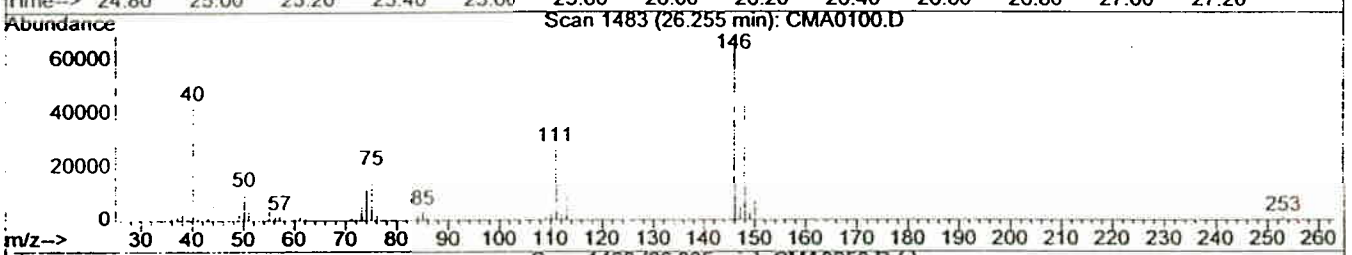
BH
8/5/02

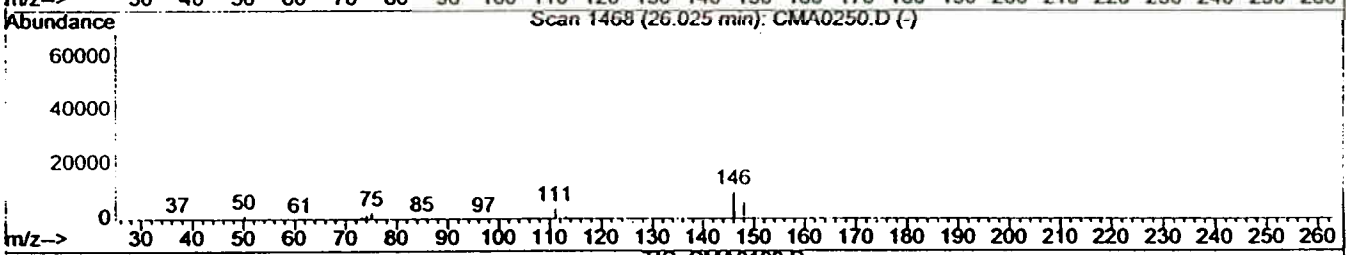
CMA0100.D TO14S.M Mon Aug 05 16:25:43 2002

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0100.D Vial: 5
Acq On : 5 Aug 2002 15:48 Operator: BDH
Sample : 100ng/4uL/20ppb INITIAL CALIB. Inst : MARILY
Misc : Pi/Pf=1 MA135ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 5 16:25 2002 Quant Results File: temp.r

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

26.25min 77.44ng

response 333736

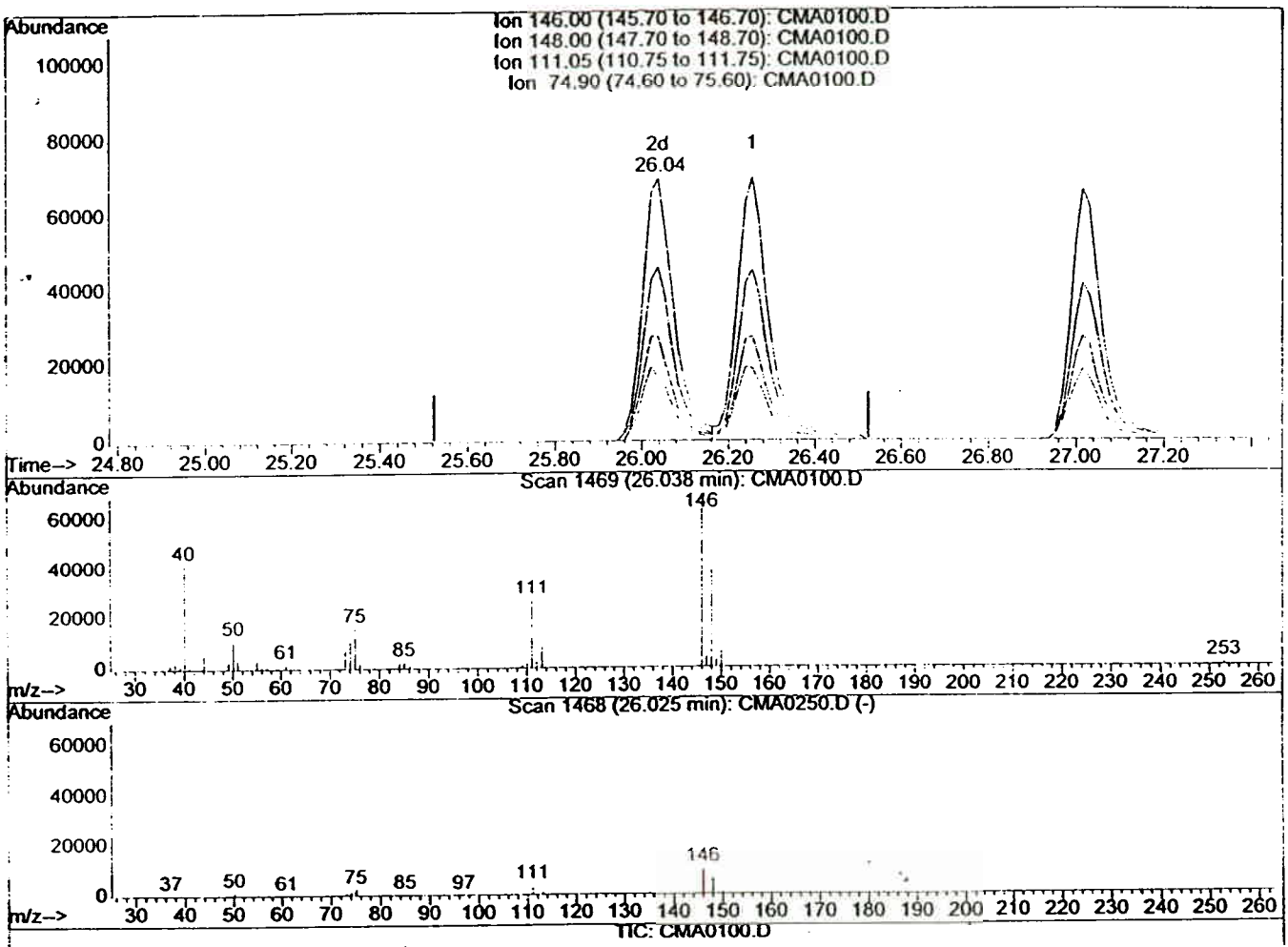
Ion	Exp%	Act%
146.00	100	100
148.00	66.40	65.74
111.05	44.40	40.91
74.90	35.60	29.02

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.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 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	99
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

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0100.D Vial: 3
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		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
CMA0100.D TO14S.M Mon Aug 05 16:21:12 2002 Page 2

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	-0.1 127.79
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	12.18	65	554812m	257.22	ng	-0.1
Spiked Amount 250.000 Range 61 - 140 Recovery = 102.89%						
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	434996m	252.74	ng	# 10
3) Dichlorotetrafluoroethane	3.82	135	686897m	345.84	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	[illegible]	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 Tue Aug 06 09:14:00 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

	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

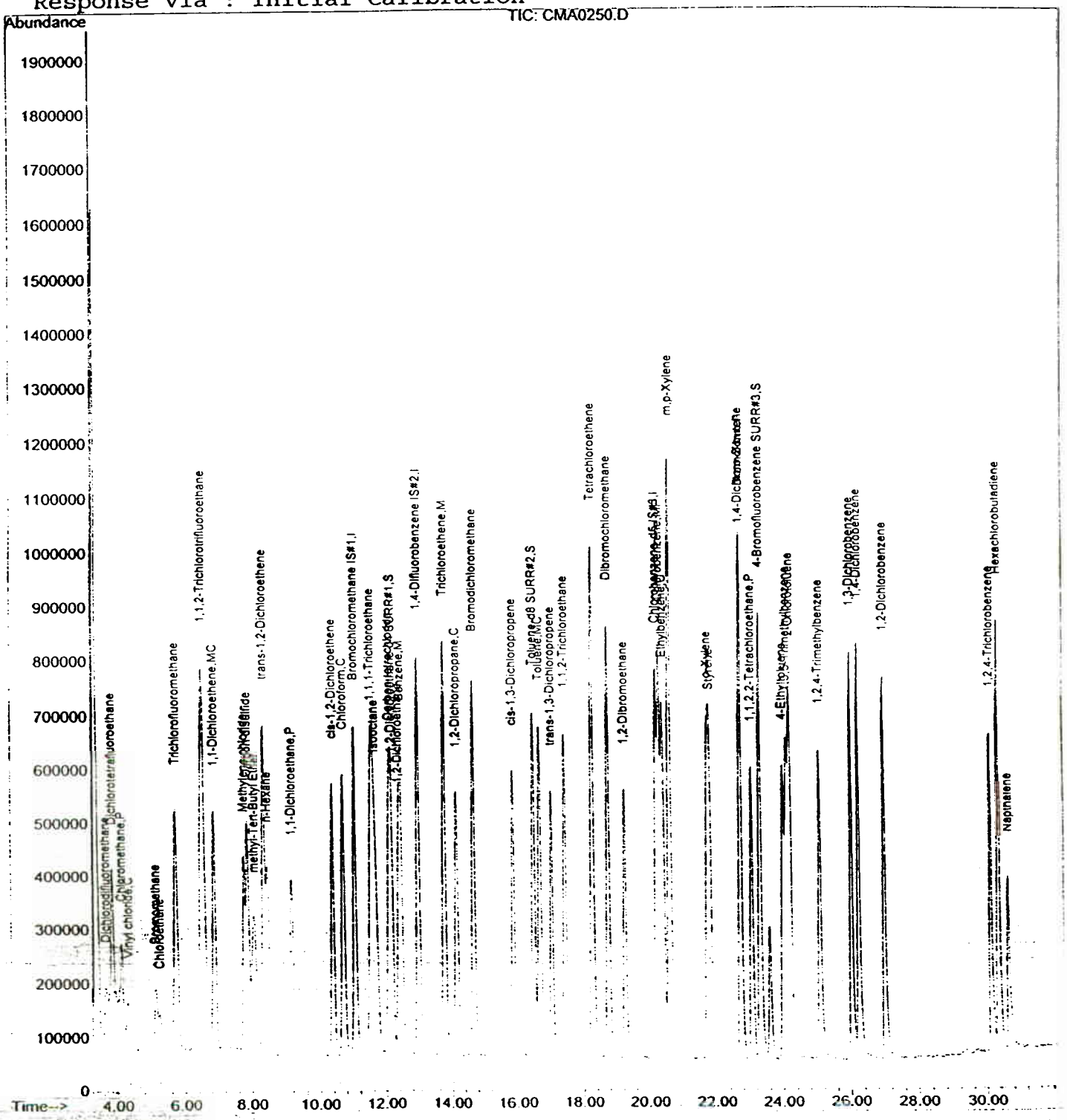
(#) = qualifier out of range (m) = manual integration
CMA0250.D TO14S.M Tue Aug 06 09:14:01 2002 Page 2

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

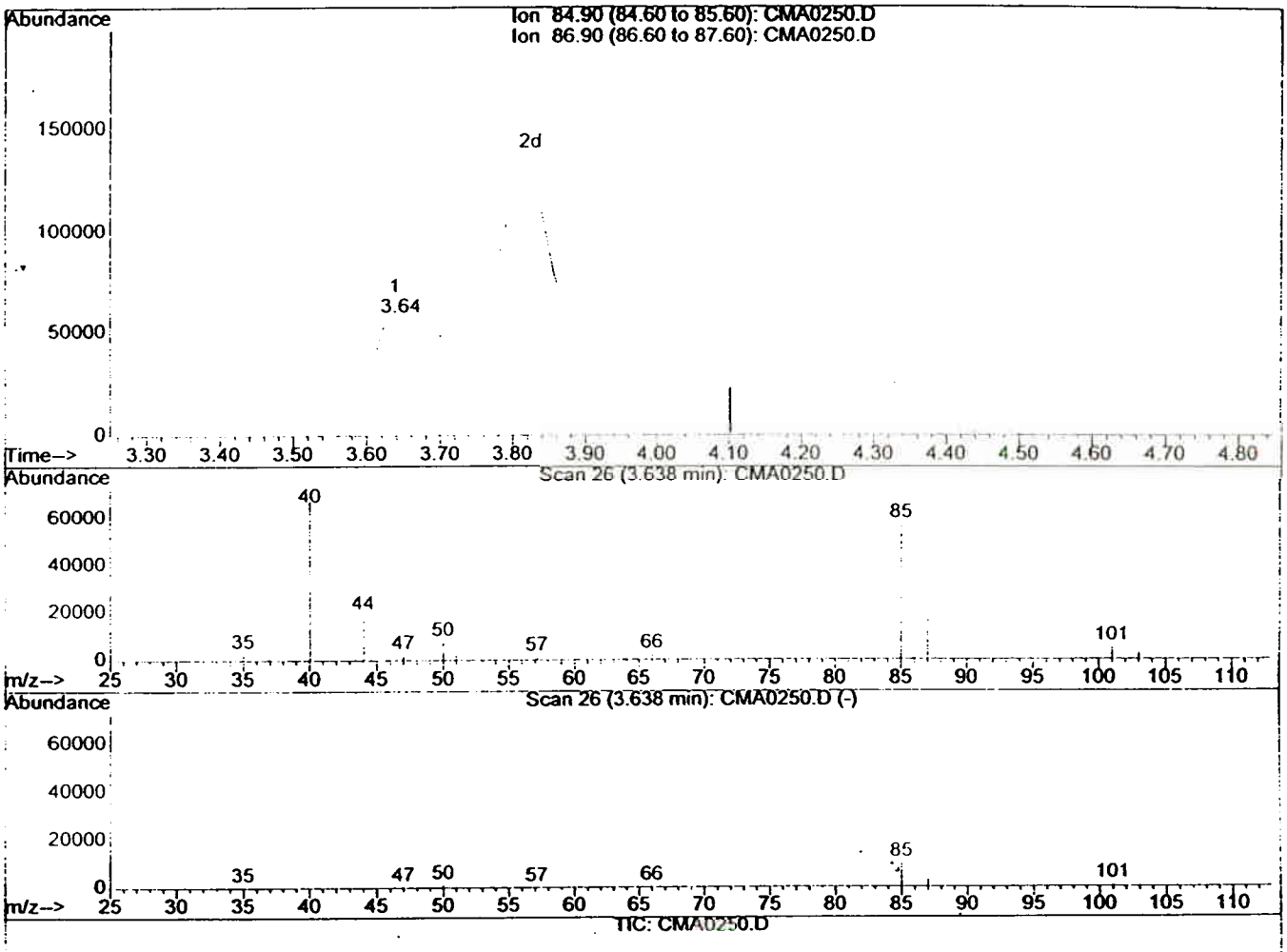
Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Tue Aug 06 09:02:44 2002
Response via : Initial Calibration



CMA0250.D TO14S.M Tue Aug 06 09:14:03 2002 Page

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 : Tue Aug 06 08:35:03 2002
Response via : Multiple Level Calibration



(2) Dichlorodifluoromethane

3.64min 198.33ng

response 341345

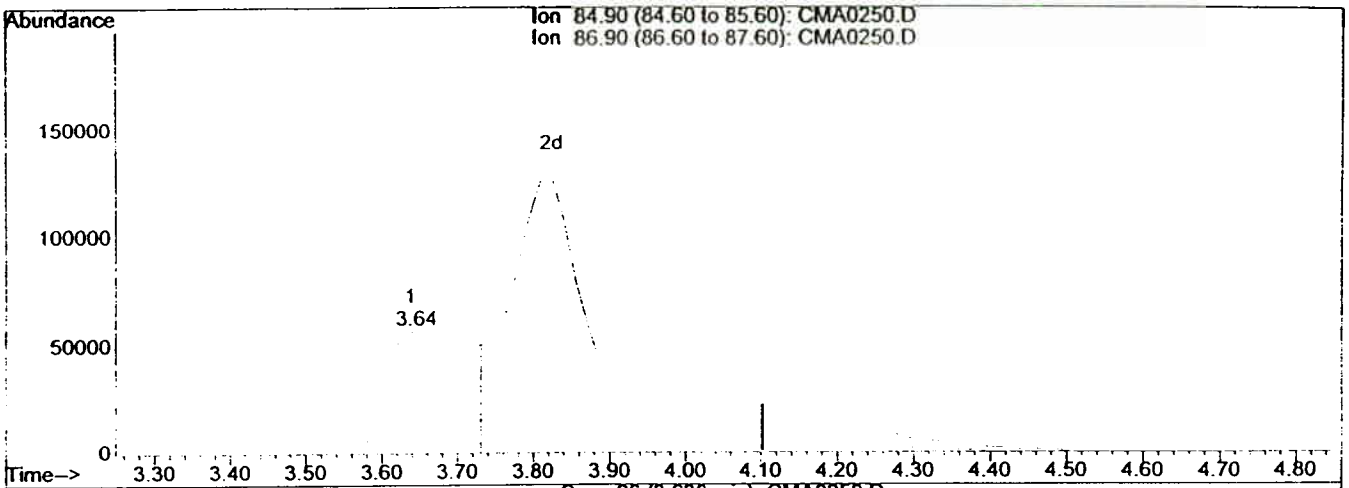
Ion	Exp%	Act%
84.90	100	100
86.90	33.50	33.22
0.00	0.00	0.00
0.00	0.00	0.00

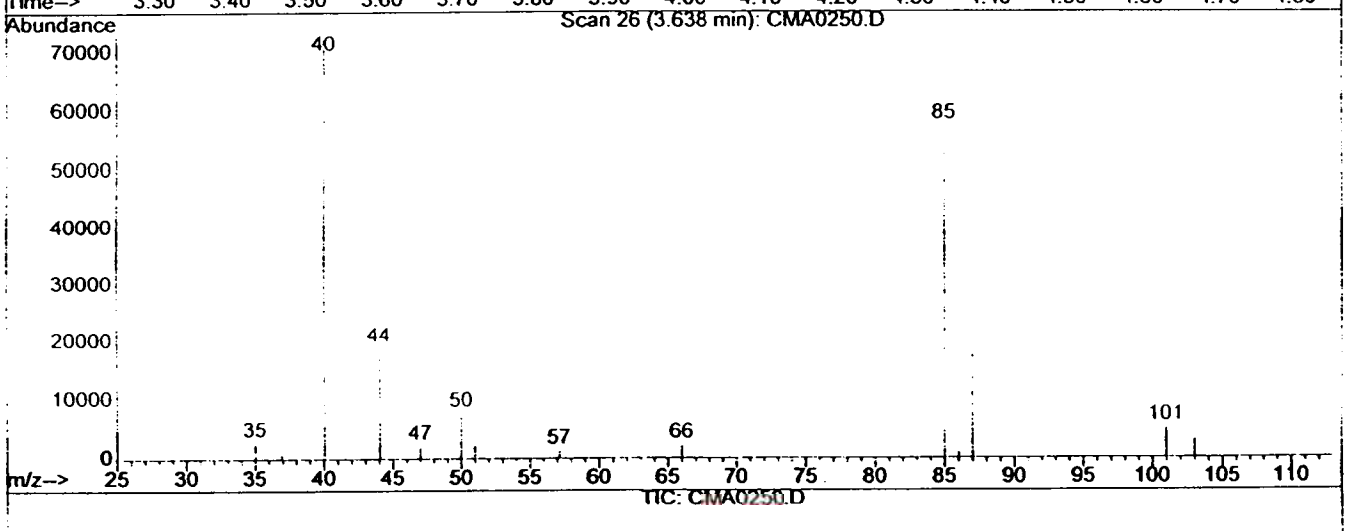
before (tailing)

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 : MARILYI
Misc : Pi/Pf=1 MA135ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 6 9:13 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

3.64min 252.74ng m

response 434996

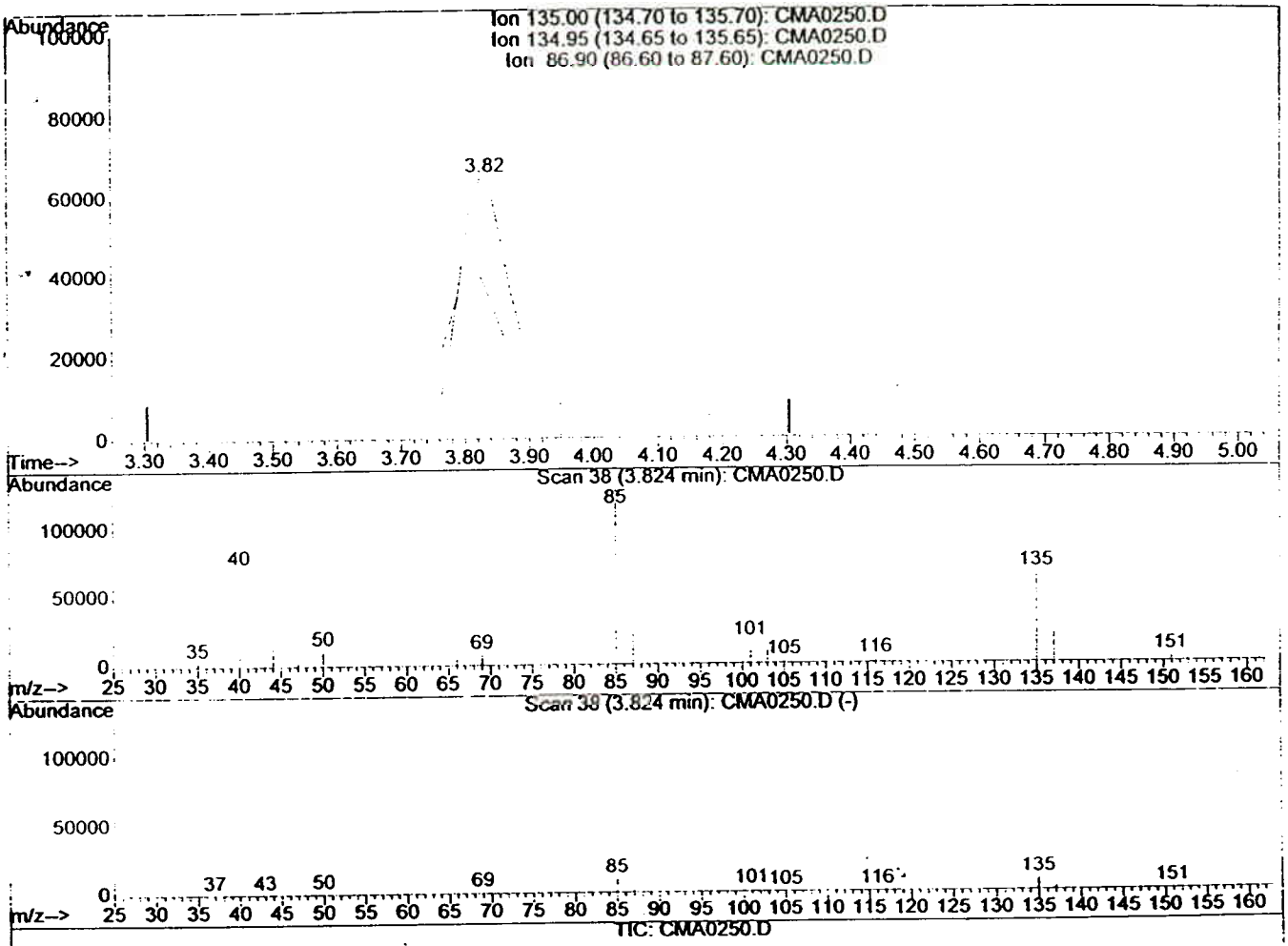
Ion	Exp%	Act%
84.90	100	100
86.90	33.50	26.07#
0.00	0.00	0.00
0.00	0.00	0.00

BS 6-6-02

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.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 208.29ng

response 413691

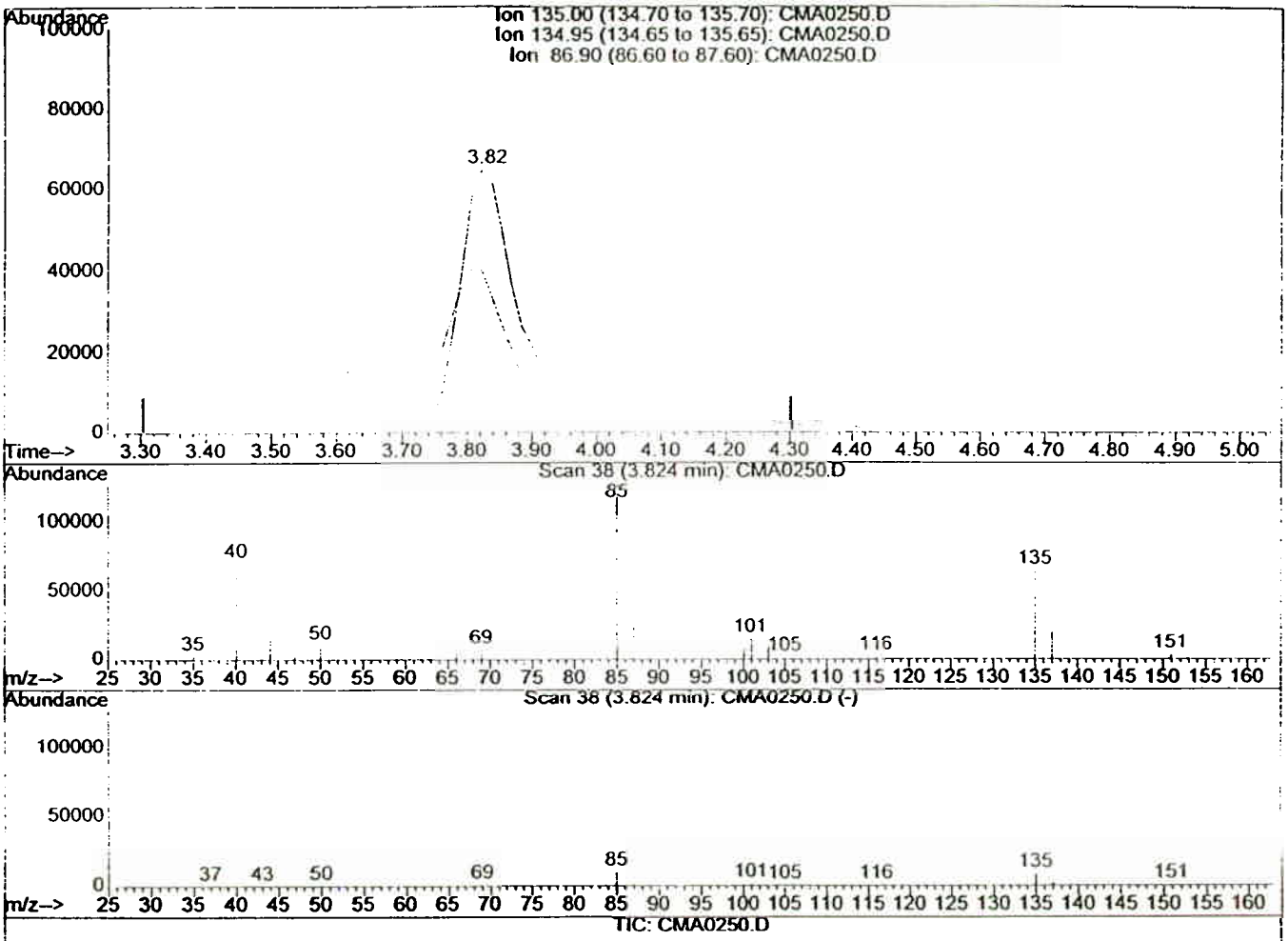
Ion	Exp%	Act%
135.00	100	100
134.95	56.30	100.00#
86.90	32.70	52.61#
0.00	0.00	0.00

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.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 345.84ng m

response 686897

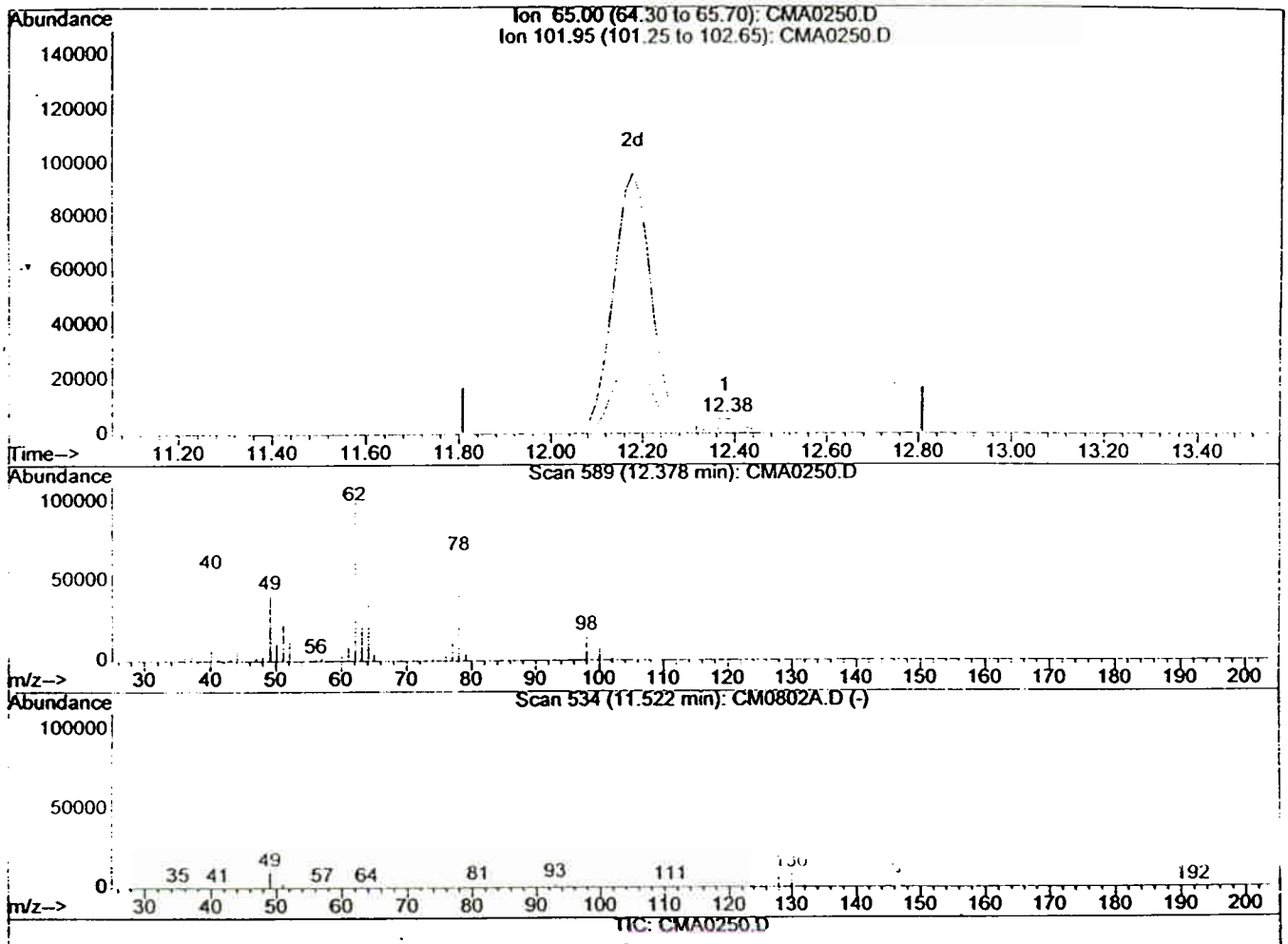
Ion	Exp%	Act%
135.00	100	100
134.95	56.30	60.23
86.90	32.70	31.69
0.00	0.00	0.00

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 : MARILYN
Misc : Pi/Pf=1 MA135ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 5 15:05 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)

12.38min 13.50ng

response 29116

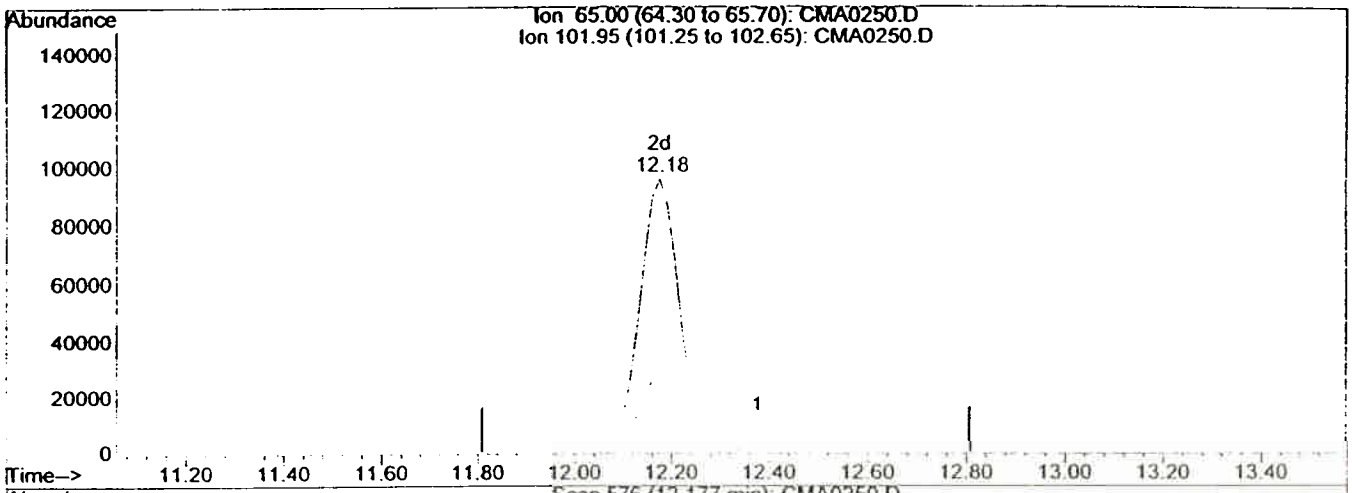
Ion	Exp%	Act%
65.00	100	100
101.95	22.40	30.92#
0.00	0.00	0.00
0.00	0.00	0.00

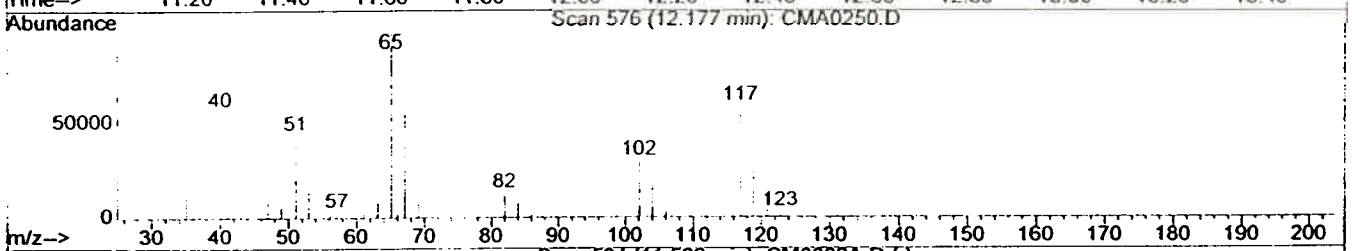
before missed peak

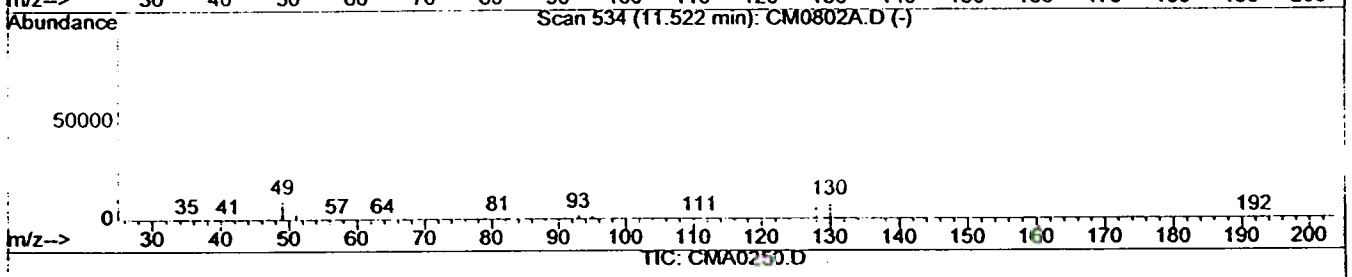
CMA0250.D 8260W50.M Mon Aug 05 15:32:16 2002

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 : MARILY
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\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)

12.18min 257.22ng m

response 554812

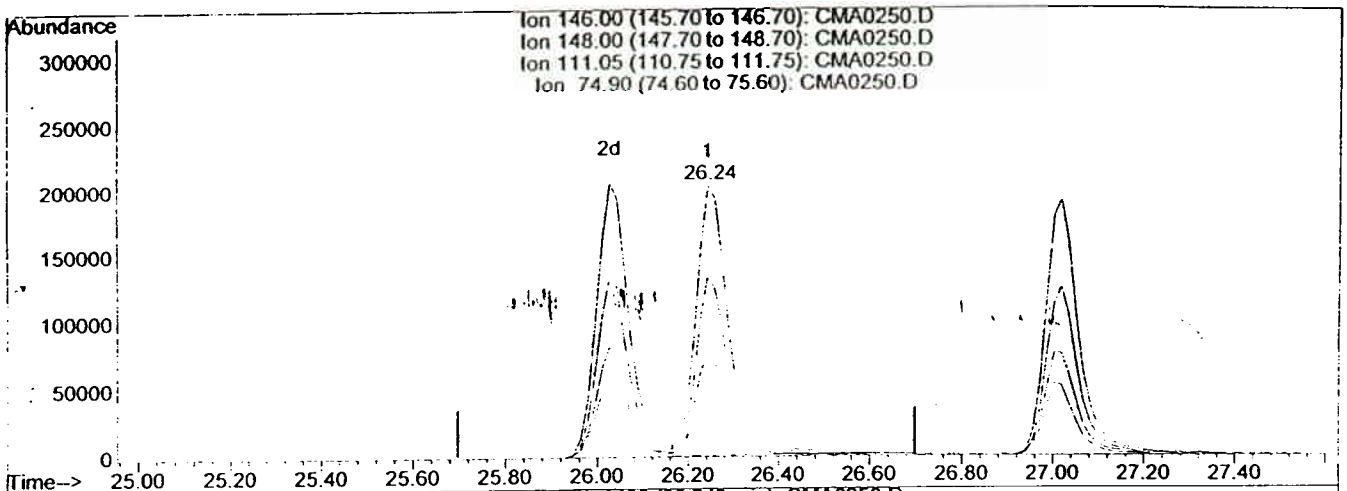
Ion	Exp%	Act%
65.00	100	100
101.95	22.40	1.62#
0.00	0.00	0.00
0.00	0.00	0.00

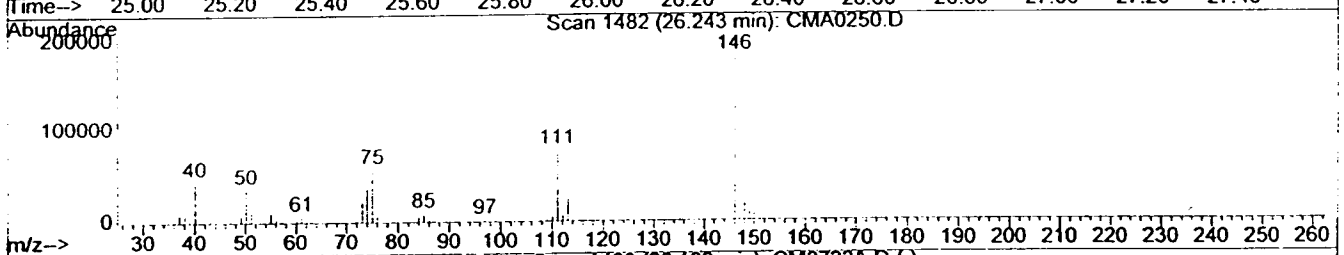
8/5/02

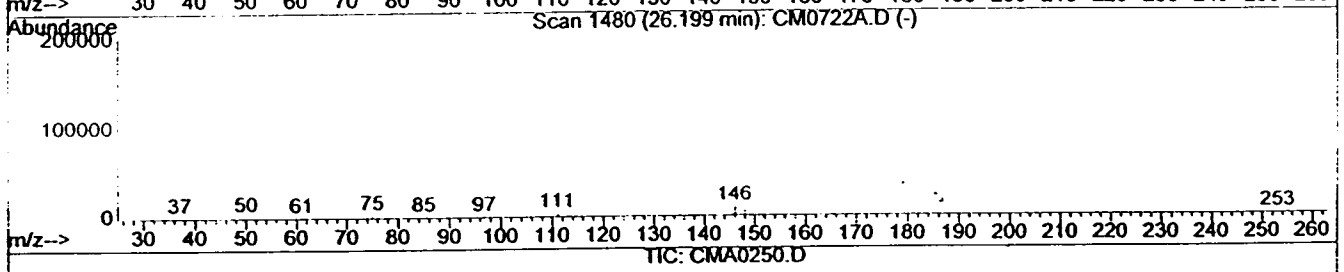
CMA0250.D 8260W50.M Mon Aug 05 15:32:25 2002

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.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

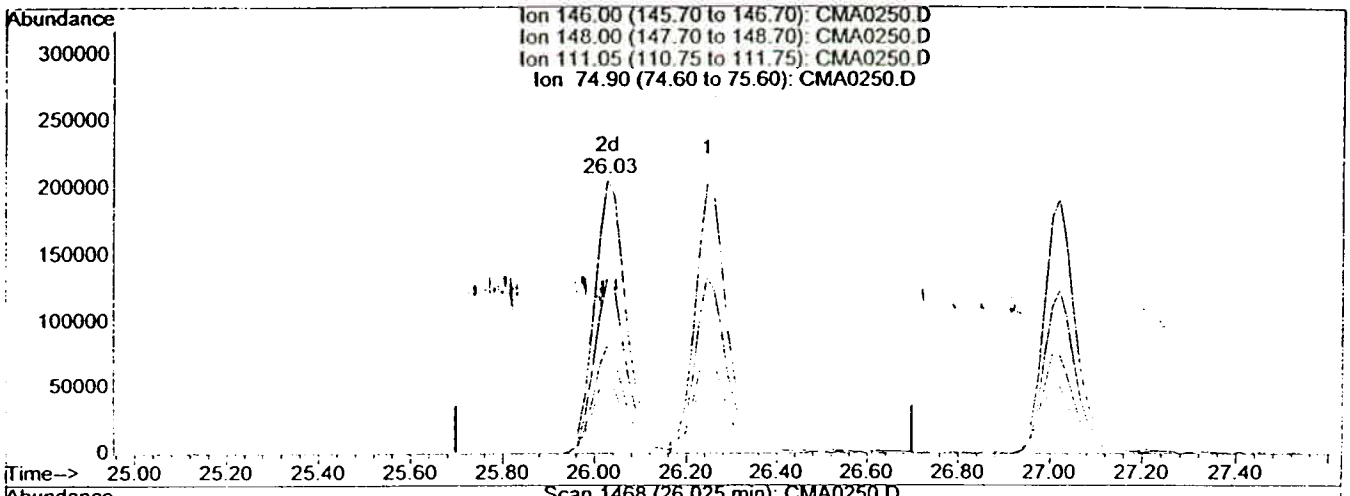
Ion	Exp%	Act%
146.00	100	100
148.00	66.40	65.97
111.05	44.40	37.34
74.90	35.60	28.29#

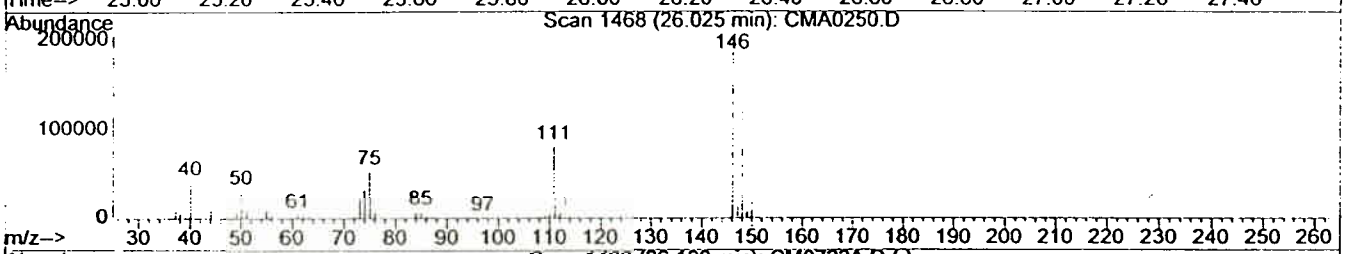
before
(wrong peak)

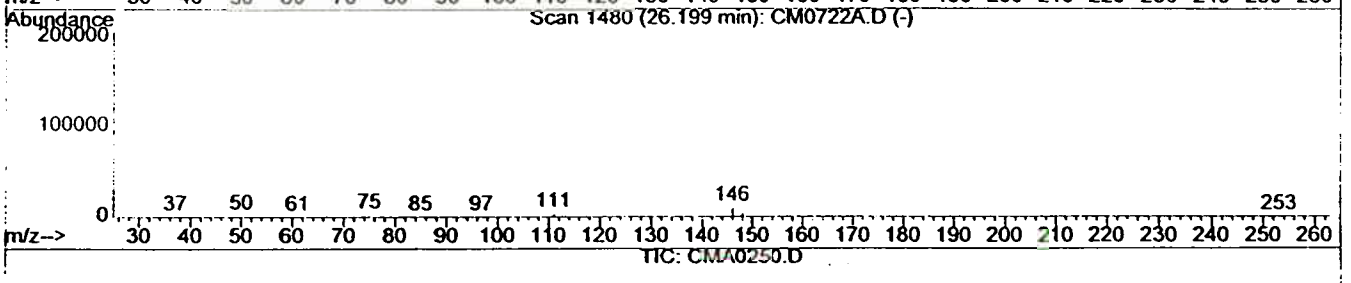
CMA0250.D TO14S.M Mon Aug 05 15:33:45 2002

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0250.D 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 : 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

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	-0.12 127.79%
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 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		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	26.24	146	1027733	223.44 ng	#	9
53)	1,4-Dichlorobenzene	26.24	146	1034312	214.89 ng	#	9
54)	1,2-Dichlorobenzene	27.02	146	981458	228.[illegible] 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 Mon Aug 05 15:05:29 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 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.[illegible]		
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 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

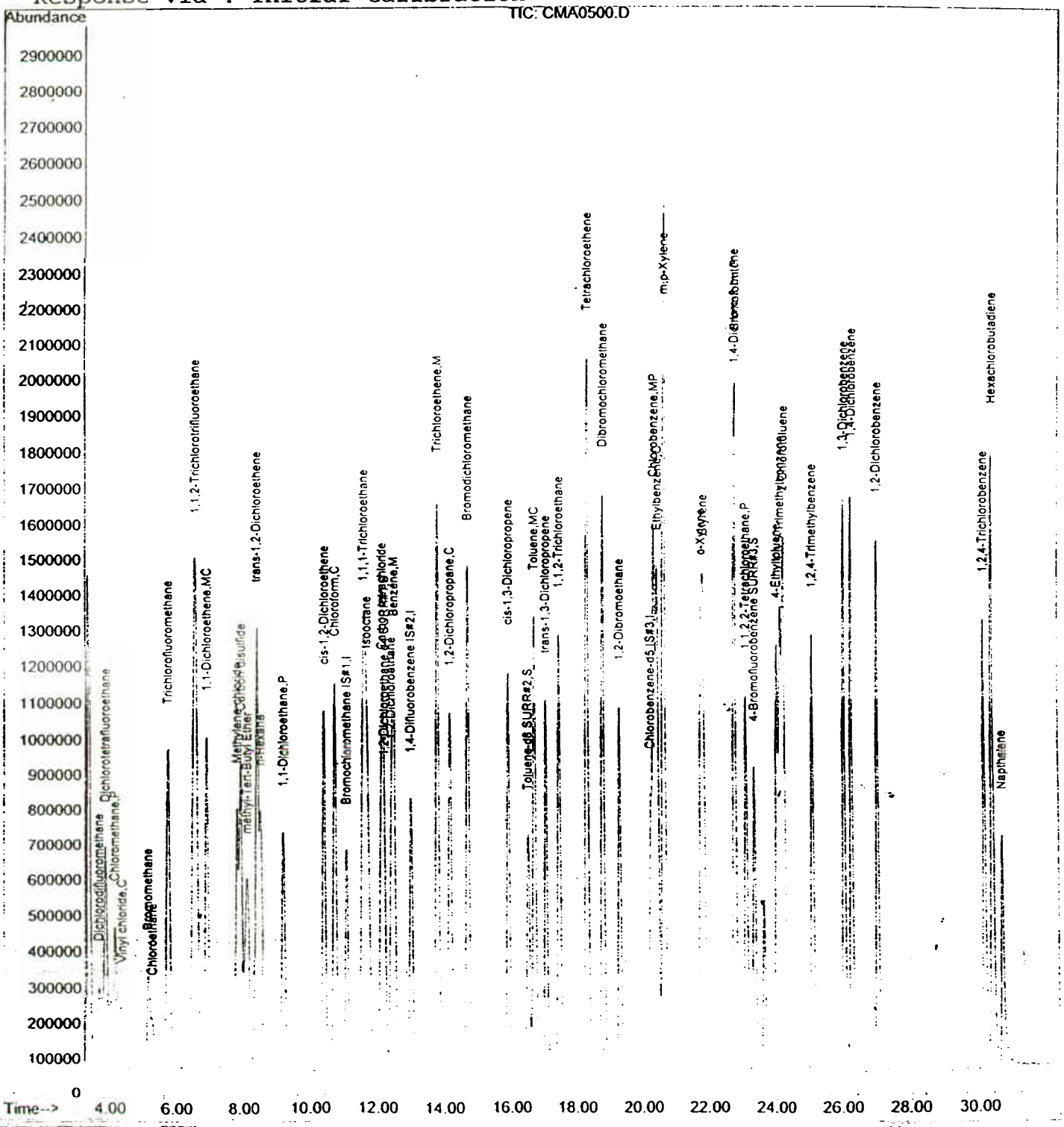
Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Aug 05 16:28:28 2002
Response via : Initial Calibration
DataAcq Meth : TO14S

	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.RES

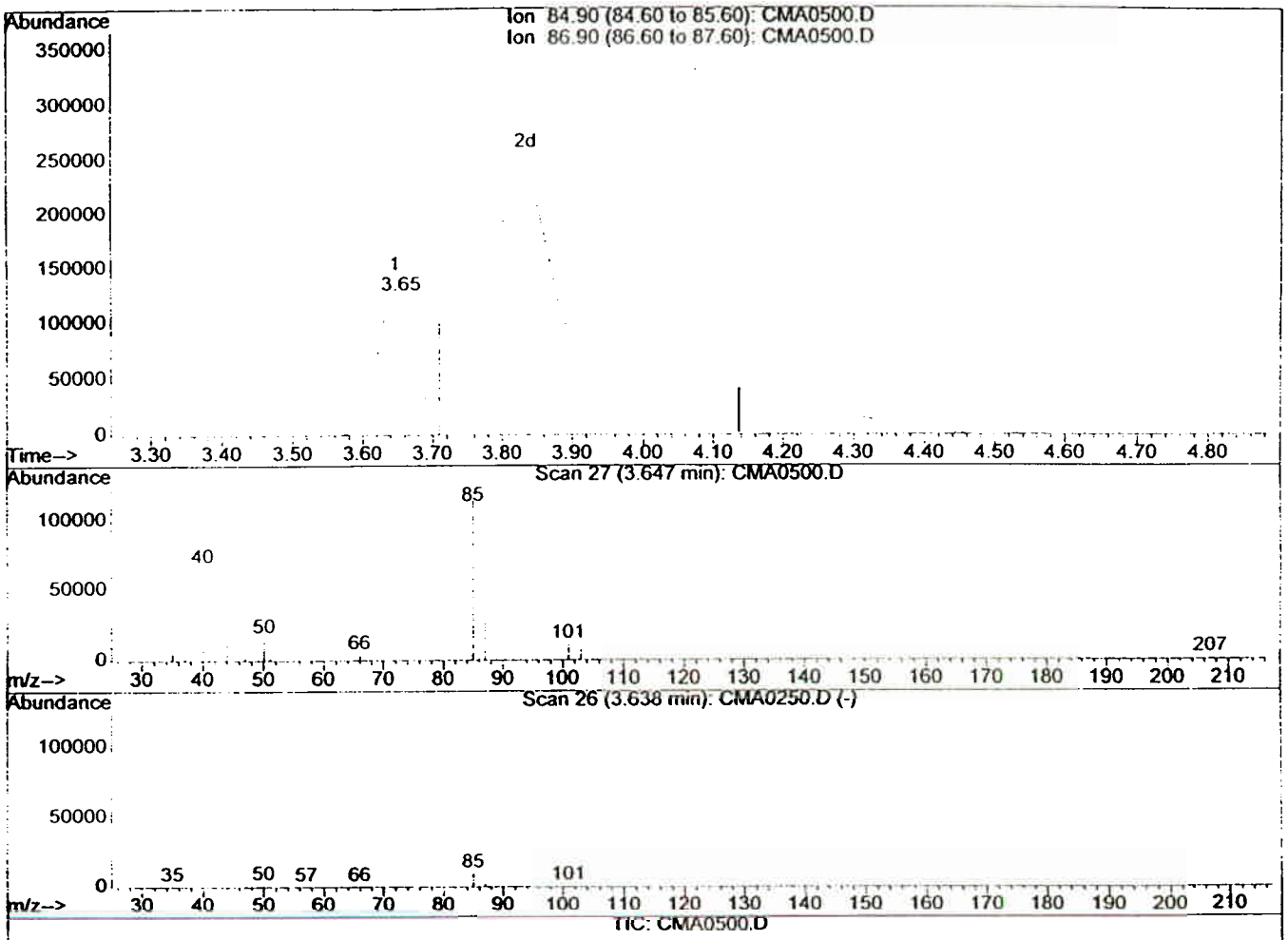
Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Tue Aug 06 09:02:44 2002
Response via : Initial Calibration



CMA0500.D TO14S.M Tue Aug 06 09:15:59 2002 Page 3

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.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



(2) Dichlorodifluoromethane

3.65min 316.70ng

response 683875

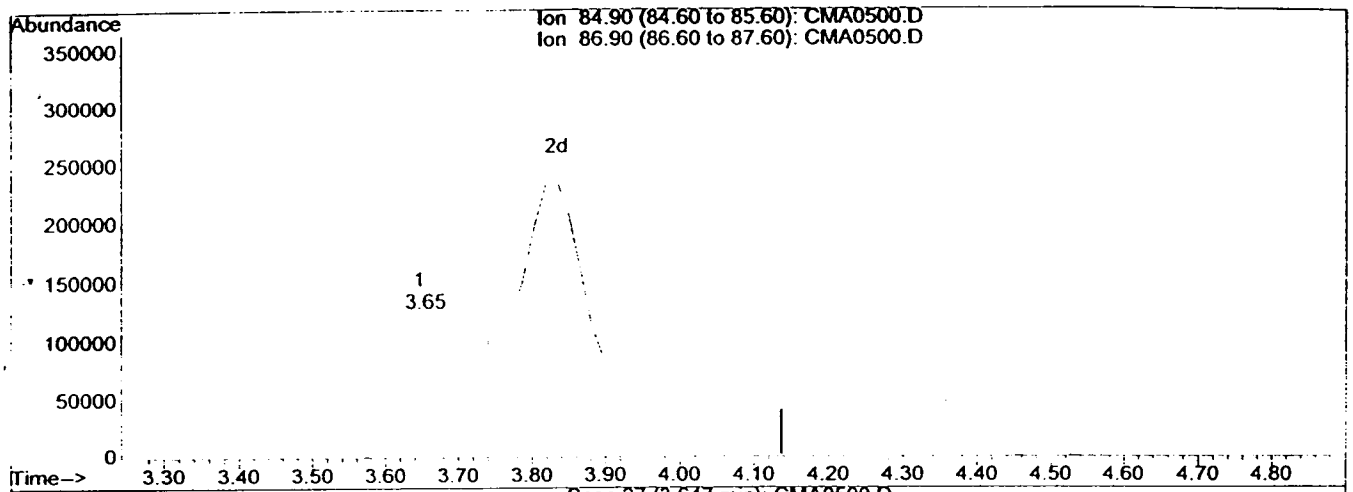
Ion	Exp%	Act%
84.90	100	100
86.90	33.50	36.94
0.00	0.00	0.00
0.00	0.00	0.00

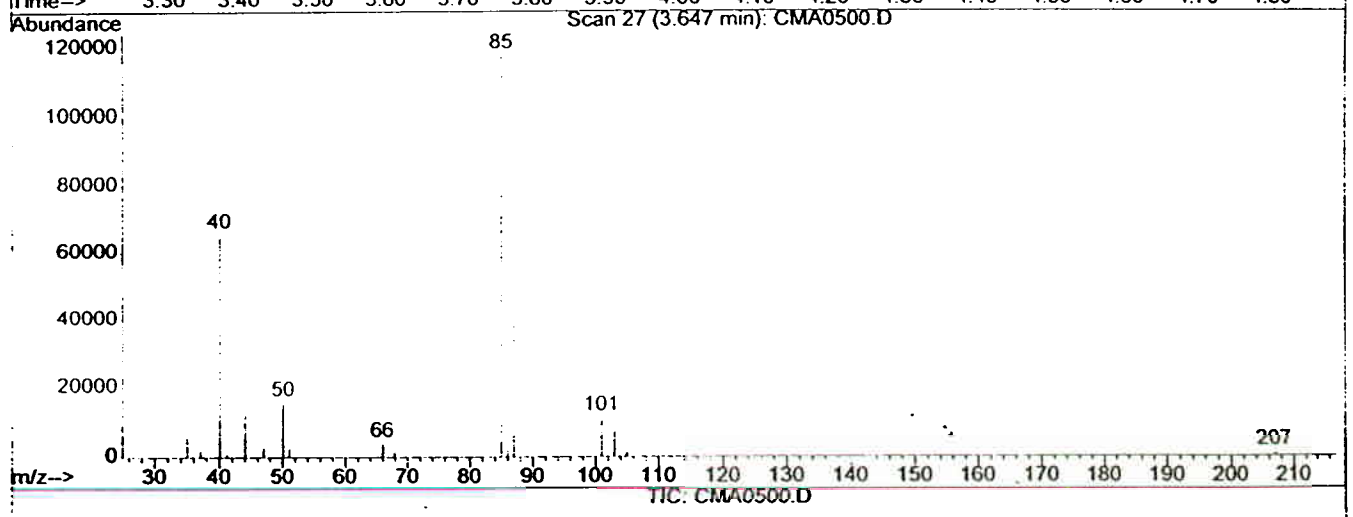
before (failing)

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 : MARILYN
Misc : Pi/Pf=1 MA135ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 6 9:15 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 404.31ng m

response 873069

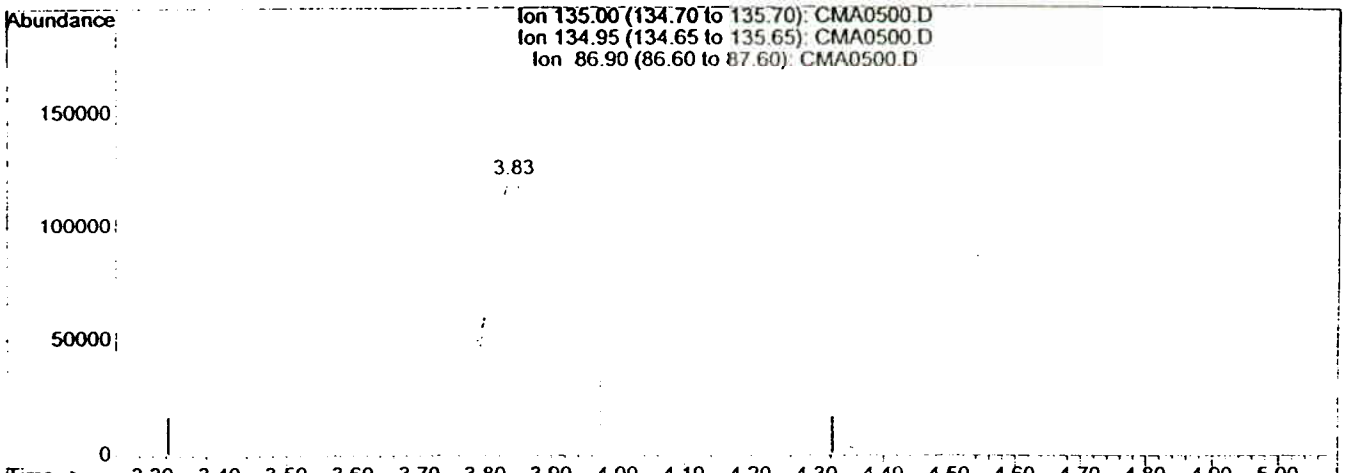
Ion	Exp%	Act%
84.90	100	100
86.90	33.50	28.93
0.00	0.00	0.00
0.00	0.00	0.00

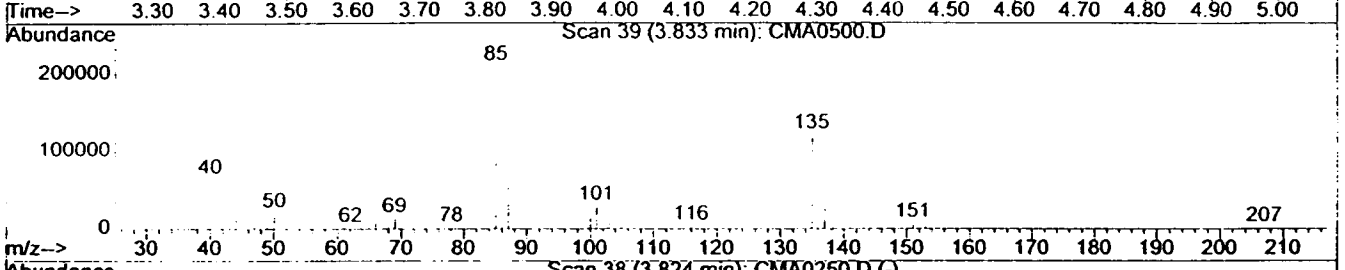
TM 8-6-02

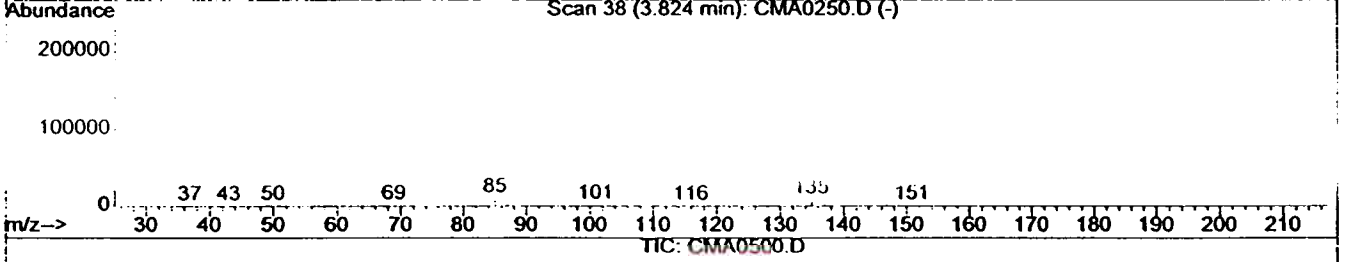
CMA0500.D TO14S.M Tue Aug 06 09:15:37 2002

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)

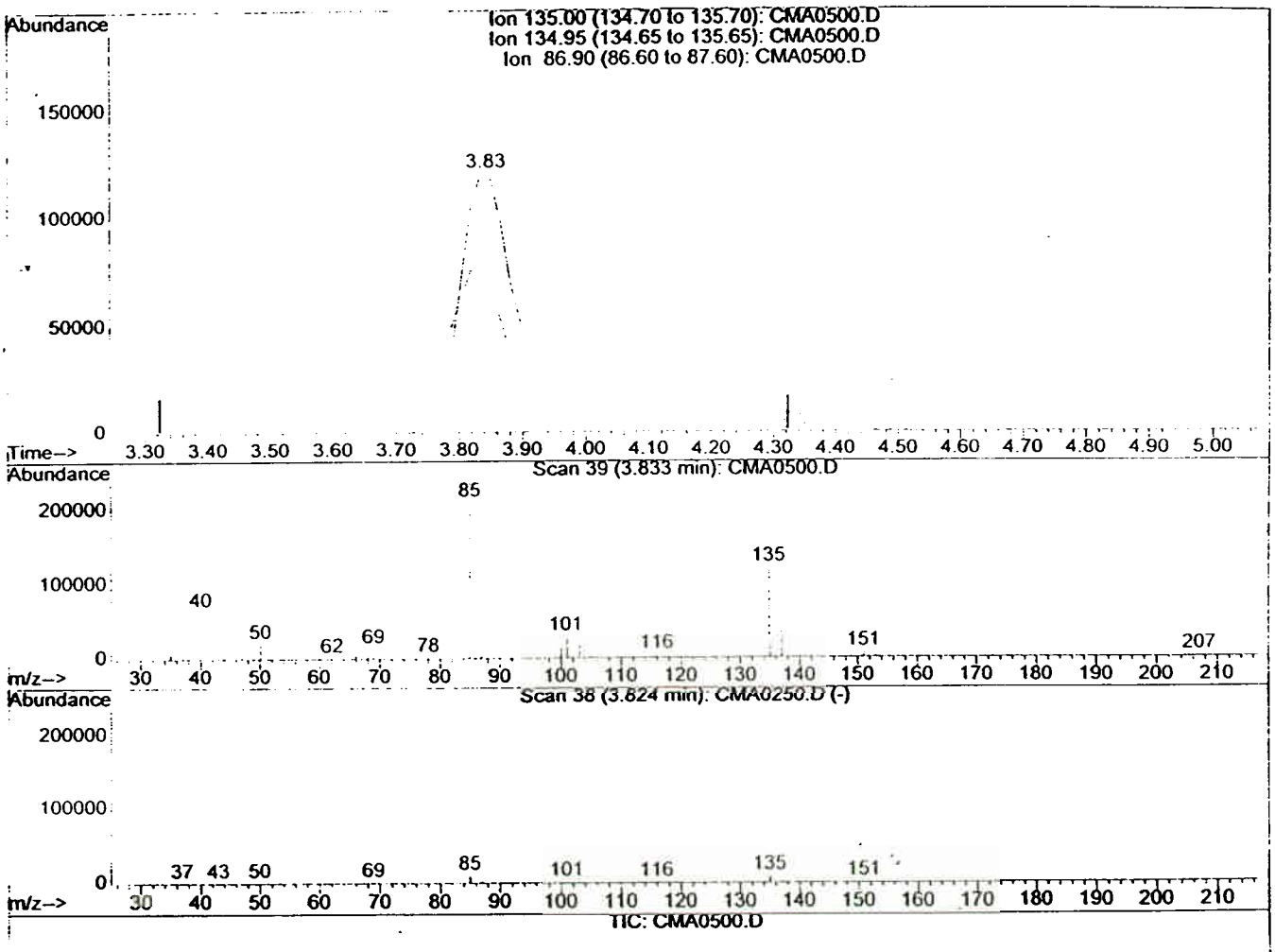
CMA0500.D TO14S.M Tue Aug 06 08:53:05 2002

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0500.D
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 8:53 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 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 BA 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 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	[illegible]			[illegible]
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

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	19[illegible]				
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 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	108[illegible]	ng	
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

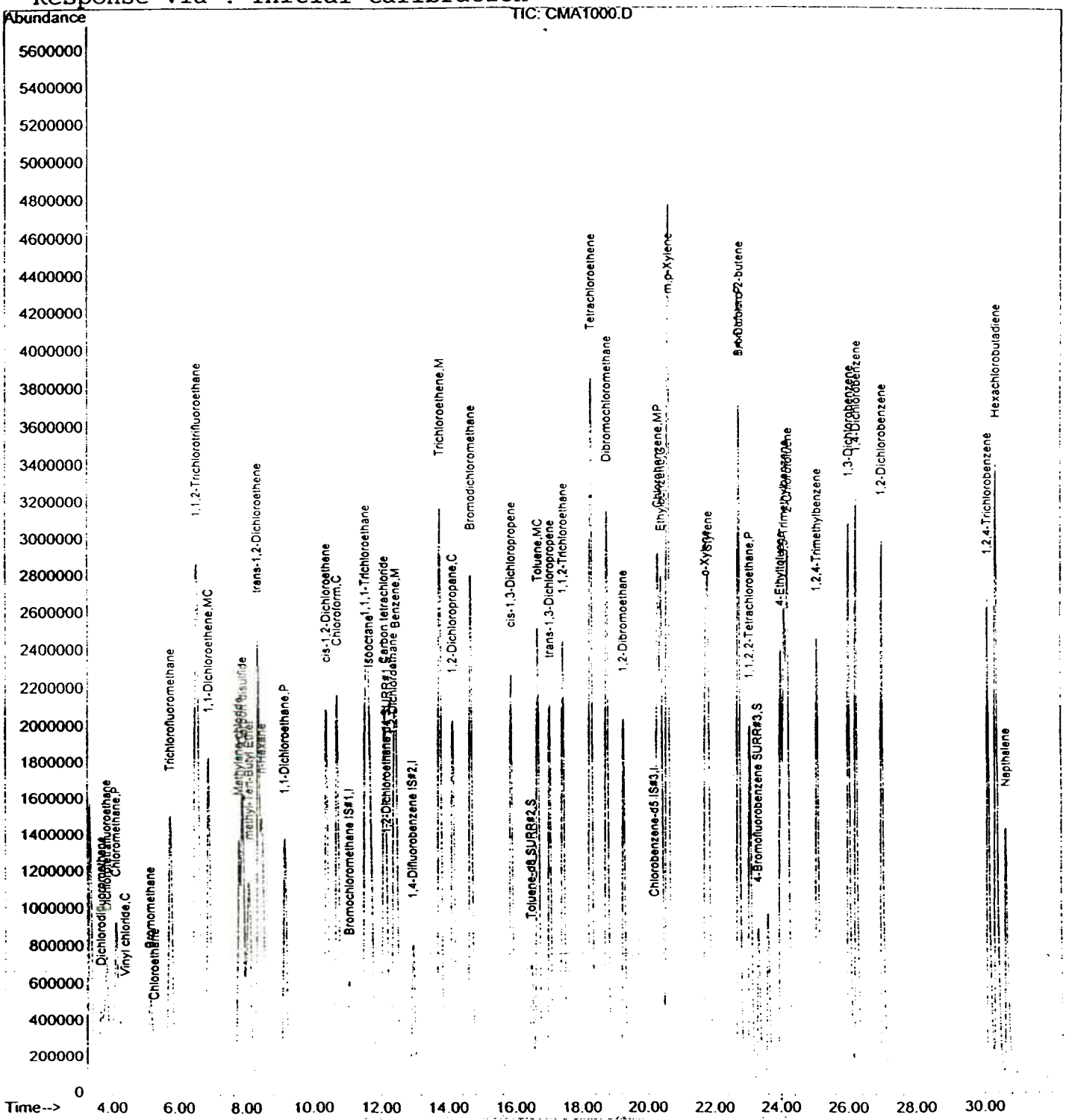
Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Aug 05 17:17:06 2002
Response via : Initial Calibration
DataAcq Meth : TO14S

	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

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

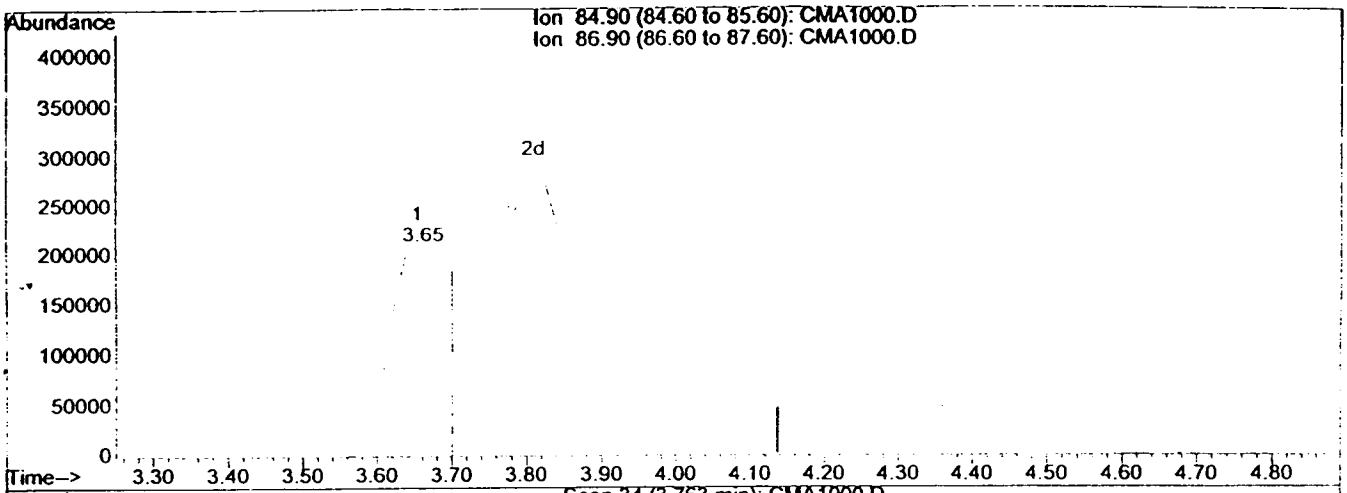
Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Tue Aug 06 09:02:44 2002
Response via : Initial Calibration

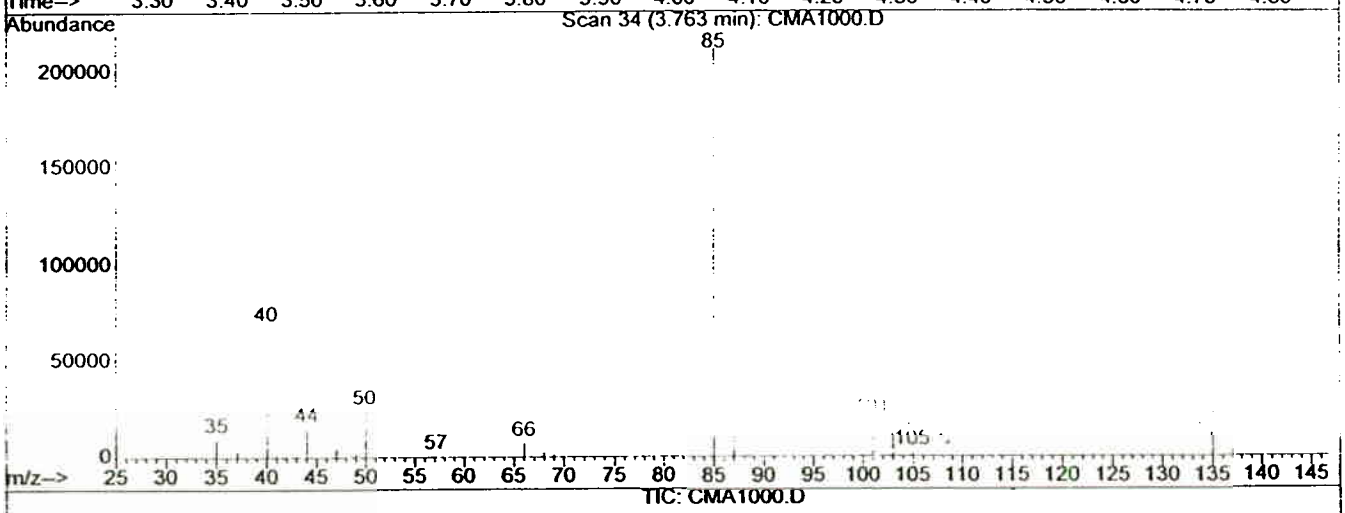


CMA1000.D TO14S.M Tue Aug 06 09:17:14 2002 Page 3

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.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

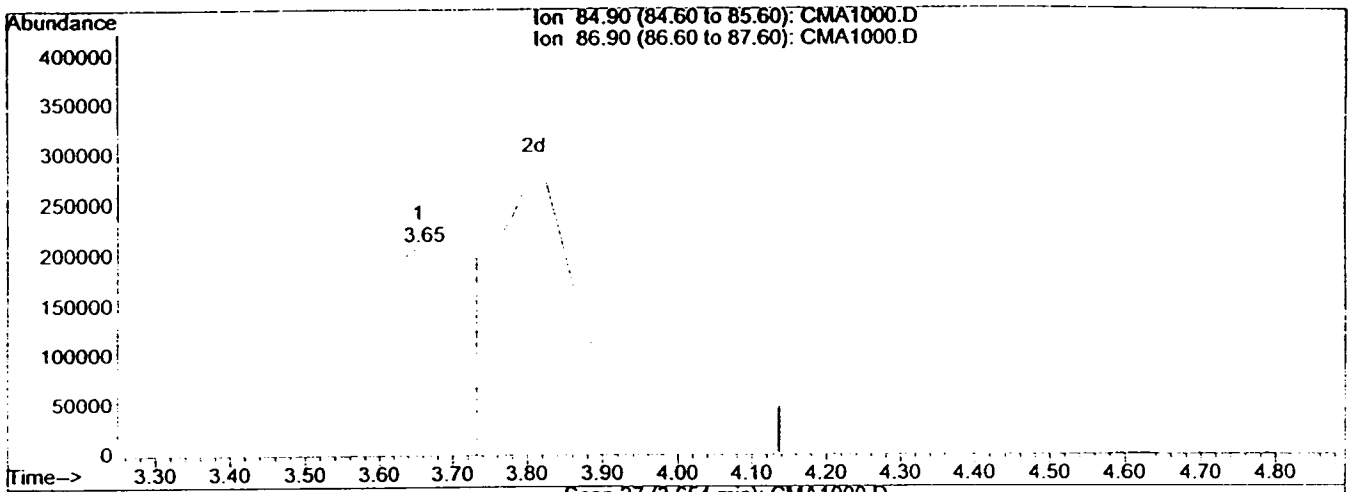
Ion	Exp%	Act%
84.90	100	100
86.90	33.50	33.31
0.00	0.00	0.00
0.00	0.00	0.00

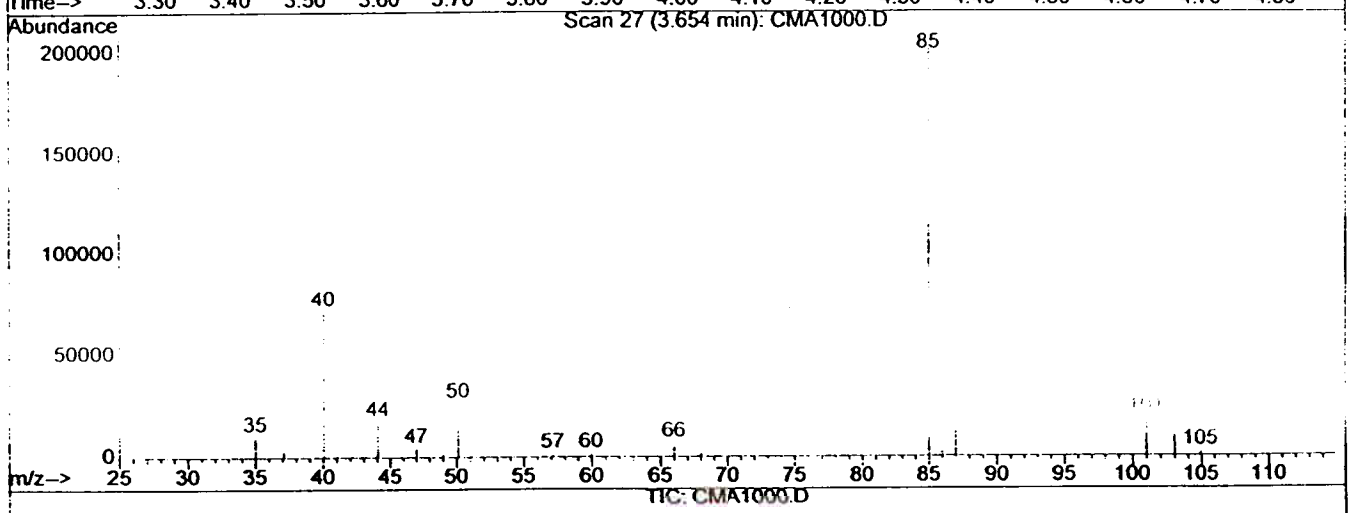
before (tailing)

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.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 777.86ng m

response 1529847

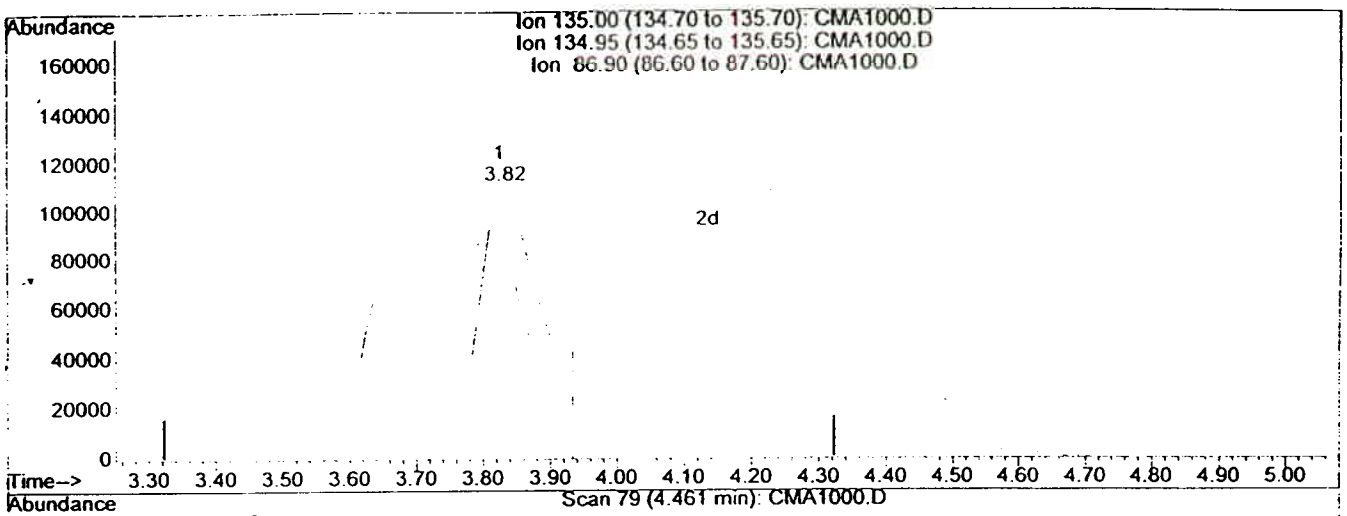
Ion	Exp%	Act%
84.90	100	100
86.90	33.50	25.38#
0.00	0.00	0.00
0.00	0.00	0.00

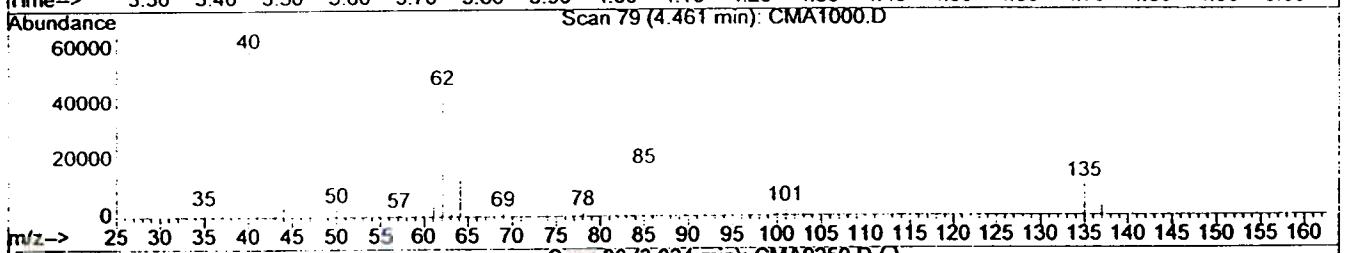
8-6-02

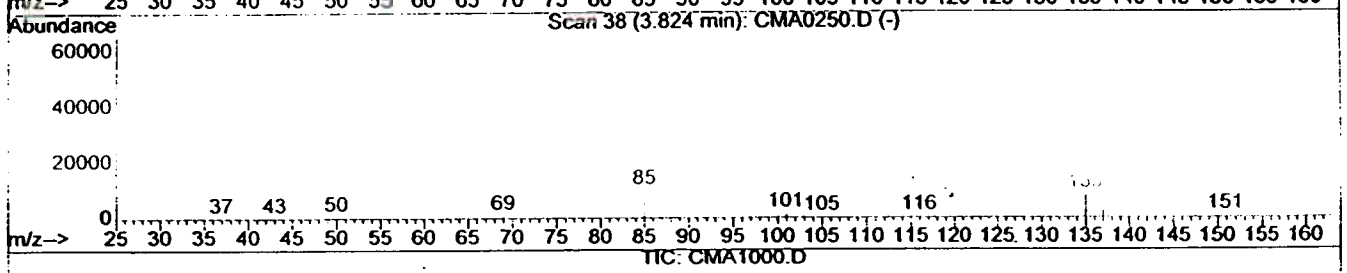
CMA1000.D TO14S.M Tue Aug 06 09:17:01 2002

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.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







TIC: CMA1000.D

(3) Dichlorotetrafluoroethane

3.82min 439.79ng

response 730494

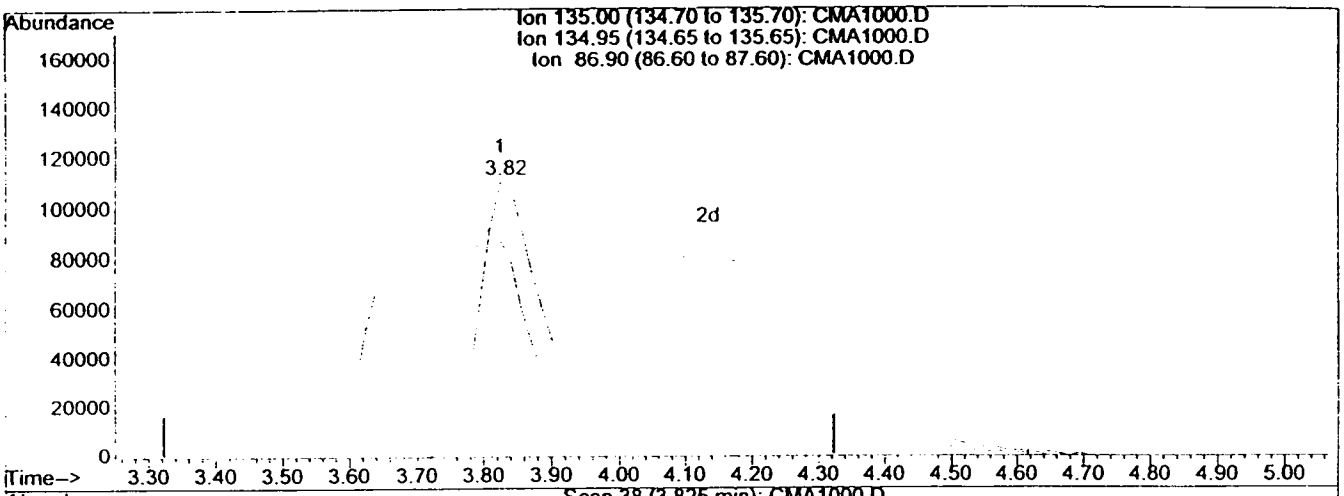
Ion	Exp%	Act%
135.00	100	100
134.95	56.30	100.00#
86.90	32.70	63.08#
0.00	0.00	0.00

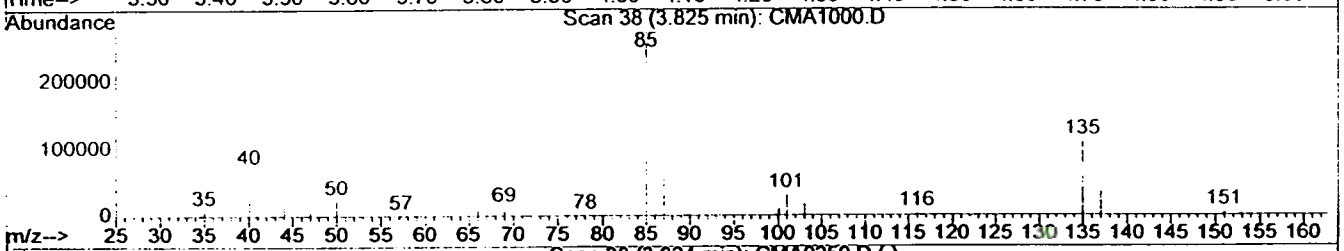
before (failing)

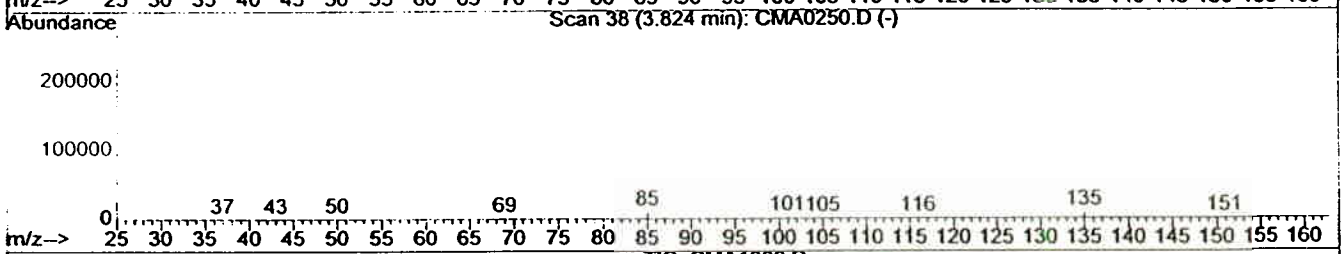
CMA1000.D TO14S.M Tue Aug 06 08:27:52 2002

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.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 1475.72ng m

response 2451209

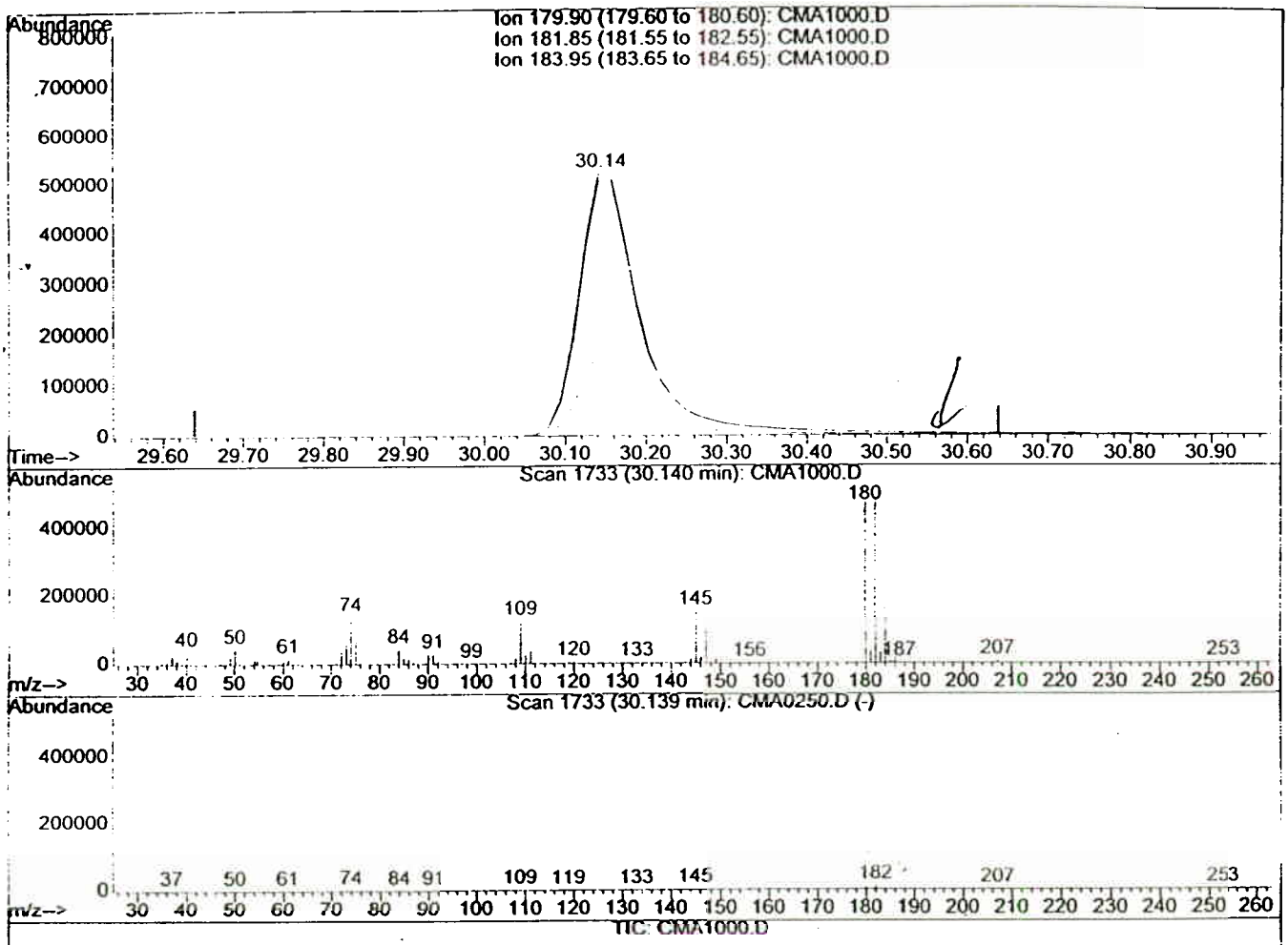
Ion	Exp%	Act%
135.00	100	100
134.95	56.30	29.80#
86.90	32.70	18.80#
0.00	0.00	0.00

after
BH
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.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

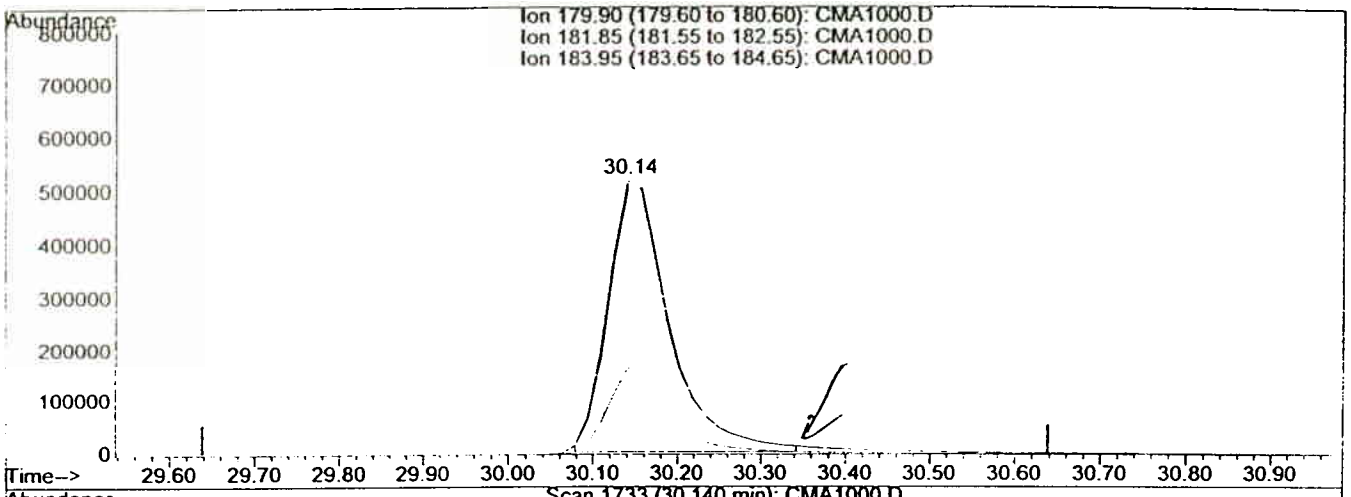
Ion	Exp%	Act%
179.90	100	100
181.85	96.80	98.83
183.95	30.50	31.80
0.00	0.00	0.00

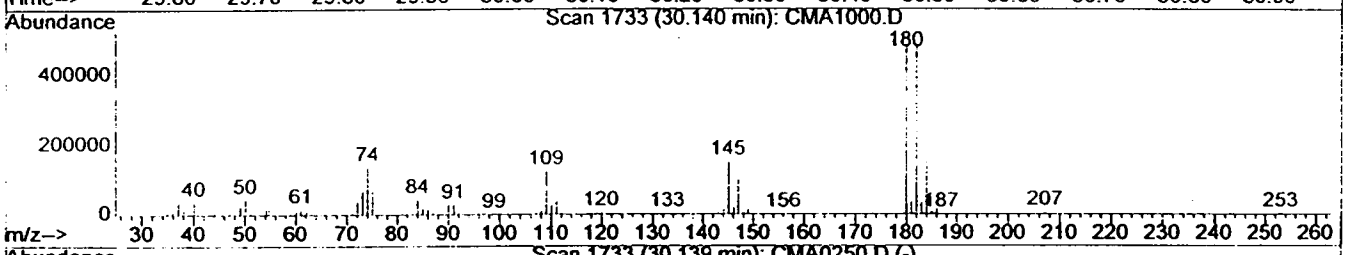
before (tailing)

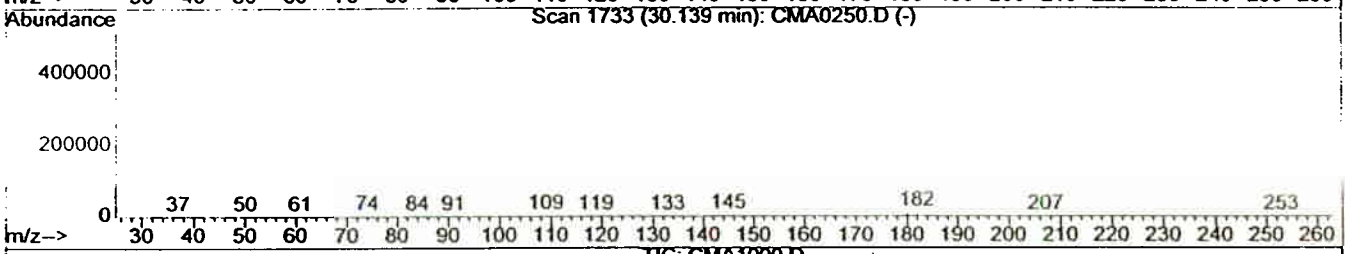
CMA1000.D TO14S.M Tue Aug 06 08:56:04 2002

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA1000.D 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.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 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 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		9
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 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		9
29)	1,2-Dichloropropane	14.13	63	2700131	1090.62 ng		9
30)	Bromodichloromethane	14.66	83	6101132	1069.45 ng		9
31)	cis-1,3-Dichloropropene	15.87	75	4124266	1088.14 ng		9
33)	Toluene	16.68	92	4049136	1055.30 ng		9
34)	trans-1,3-Dichloropropene	17.04	75	3482794	1083.20 ng		9
35)	1,1,2-Trichloroethane	17.44	97	2659986	1059.68 ng		9
37)	Tetrachloroethene	18.26	164	3418390	1091.11 ng		9
38)	Dibromochloromethane	18.74	127	4467087	1075.81 ng	#	9
39)	Chlorobenzene	20.31	112	5500033	1077.18 ng		9
40)	Ethylbenzene	20.41	106	2169284	1086.42 ng		9
41)	m,p-Xylene	20.61	106	5357491	2147.85 ng		9
42)	o-Xylene	21.74	106	2557684	1079.37 ng		9
43)	Styrene	21.82	104	4347537	1073.27 ng		9
44)	Bromoform	22.73	173	4547630	1014.30 ng		10
45)	1,1,2,2-Tetrachloroethane	23.08	83	3764344	1001.70 ng		10
47)	1,4-Dichloro-2-butene	22.73	75	930592	1076.63 ng		8
48)	4-Ethyltoluene	24.01	105	6255696	1049.28 ng		9
49)	1,3,5-Trimethylbenzene	24.12	105	4713467	1024.26 ng	#	8
50)	2-Chlorotoluene	24.23	91	6412753	1080.33 ng		9
51)	1,2,4-Trimethylbenzene	25.09	105	5011320	1086.29 ng		9
52)	1,3-Dichlorobenzene	26.04	146	4149999	1055.54 ng	#	9
53)	1,4-Dichlorobenzene	26.26	146	4294318	1050.66 ng	#	9
54)	1,2-Dichlorobenzene	27.02	146	3807675	1044.81 ng	#	9
55)	1,2,4-Trichlorobenzene	30.14	180	2806950	1179.19 ng		9
56)	Napthalene	30.68	128	3829648	1198.41 ng	#	9
57)	Hexachlorobutadiene	30.39	225	2137949	1213.19 ng		9

(#) = qualifier out of range (m) = manual integration
CMA1000.D TO14S.M Mon Aug 05 17:32:52 2002 Page 2

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	0.00 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
CMA1500.D TO14S.M Tue Aug 06 09:23:10 2002 Page 1

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

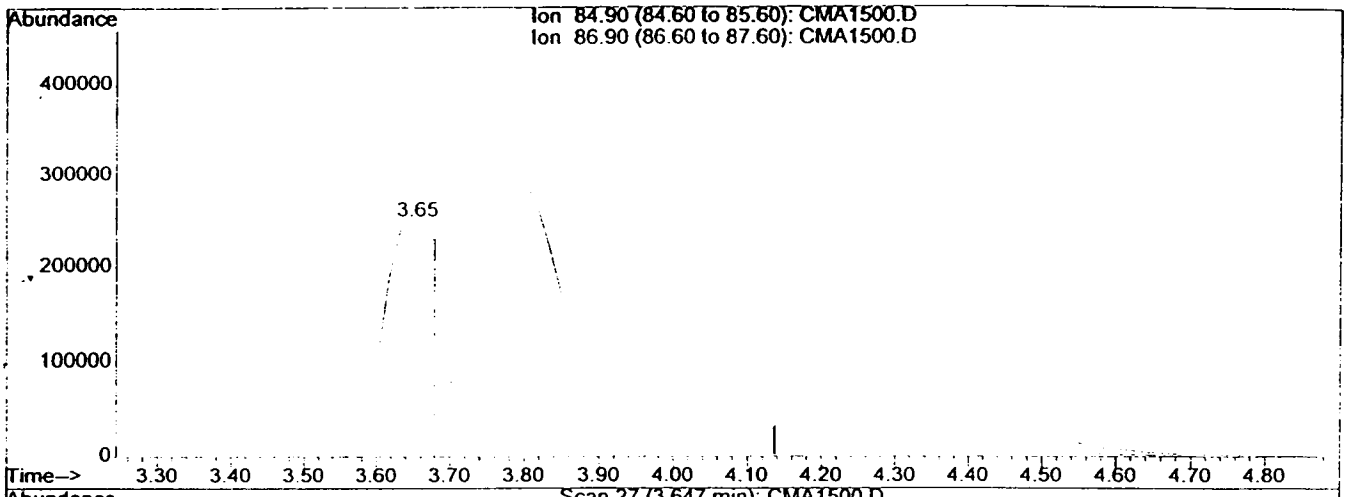
Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Aug 05 17:17:06 2002
Response via : Initial Calibration
DataAcq Meth : TO14S

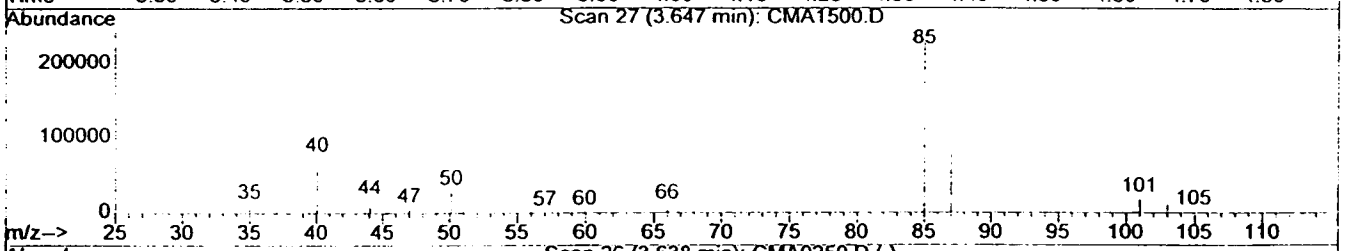
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
28)	Trichloroethene	13.75	130	4905602	1610.59 ng		93
29)	1,2-Dichloropropane	14.14	63	3667215	1649.48 ng		94
30)	Bromodichloromethane	14.67	83	8246077	1609.60 ng		98
31)	cis-1,3-Dichloropropene	15.87	75	5570045	1636.50 ng		94
33)	Toluene	16.67	92	5445867	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.[illegible] 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

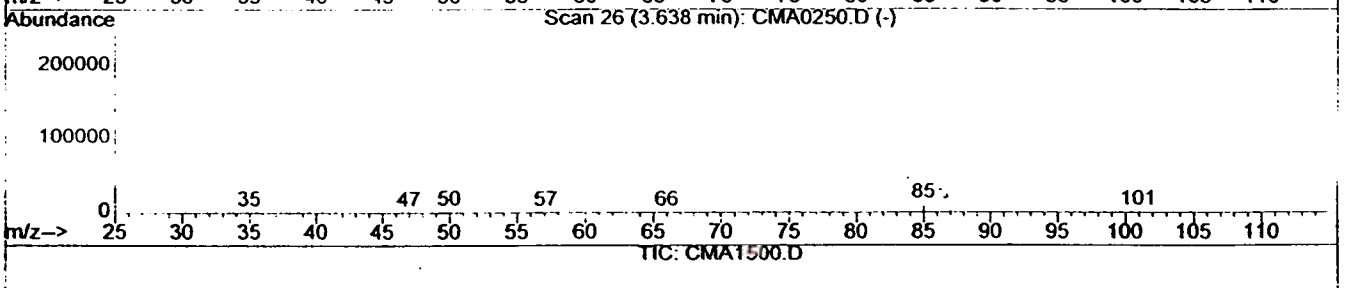
(#) = qualifier out of range (m) = manual integration
CMA1500.D TO14S.M Tue Aug 06 09:23:10 2002 Page 2

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.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

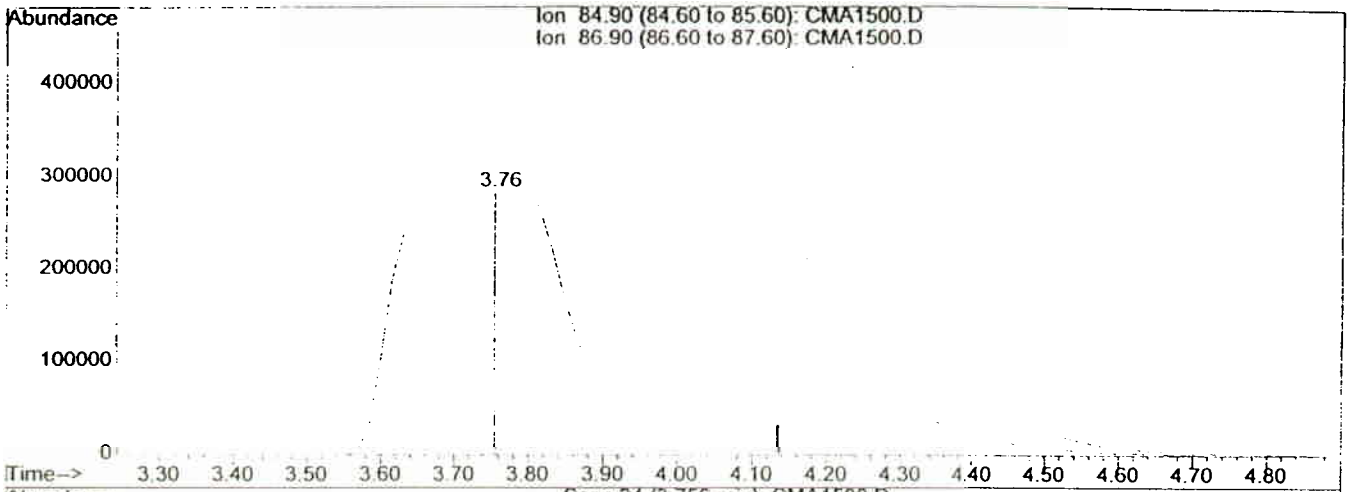
Ion	Exp%	Act%
84.90	100	100
86.90	33.50	33.13
0.00	0.00	0.00
0.00	0.00	0.00

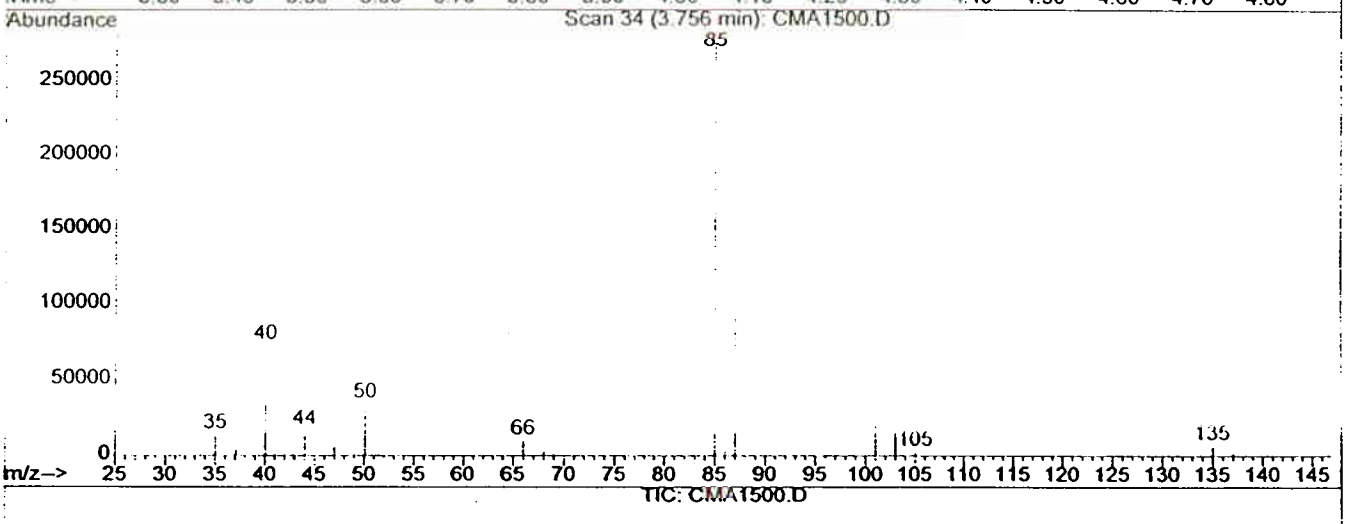
before
(tailing)

CMA1500.D TO14S.M Tue Aug 06 08:32:27 2002

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA1500.D 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.rc

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

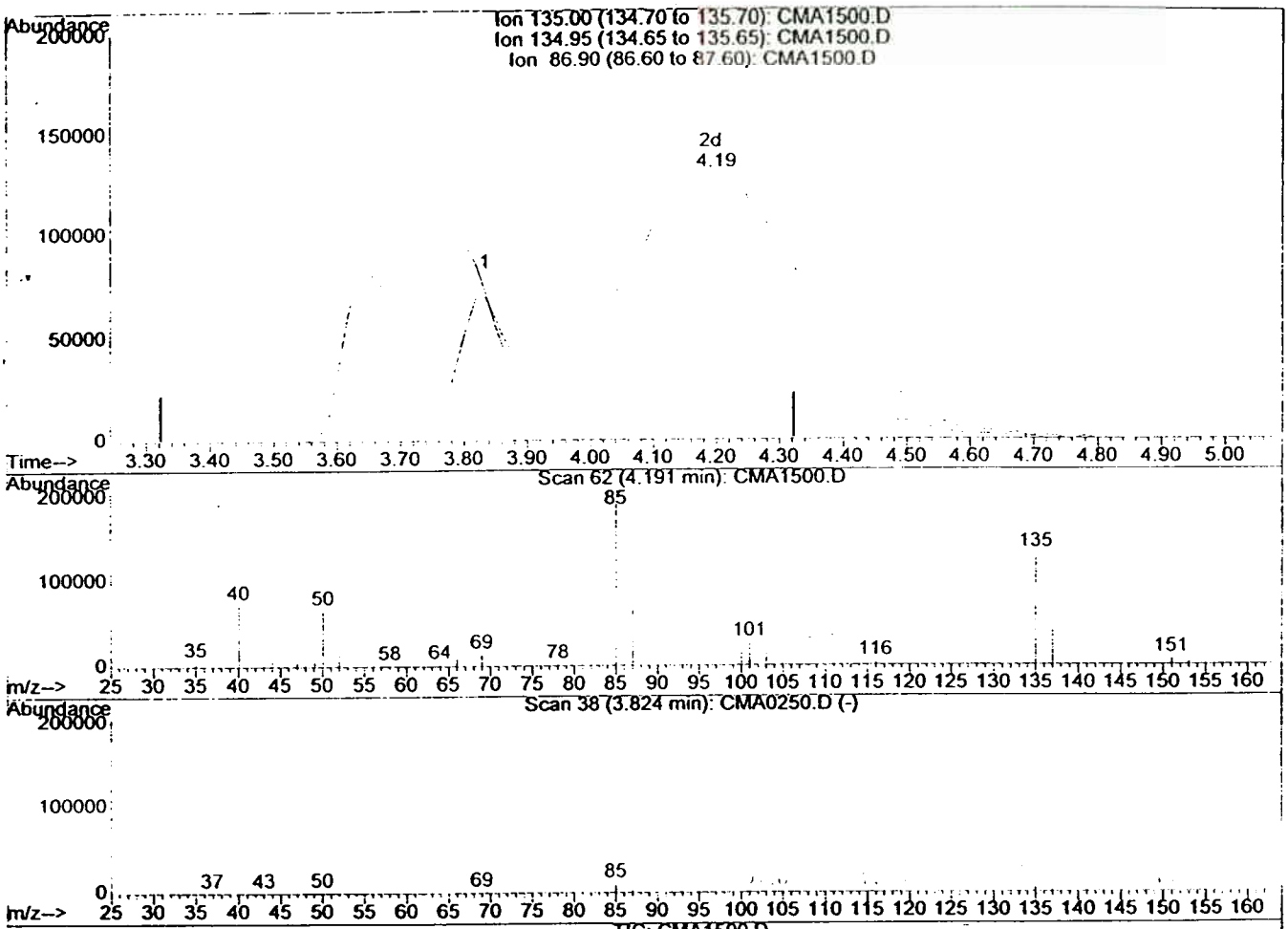
Ion	Exp%	Act%
84.90	100	100
86.90	33.50	16.43#
0.00	0.00	0.00
0.00	0.00	0.00

Mgbr

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.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

~~Defed~~ 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 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
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		0.0(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	3.65	85	1189987	652.84	ng		9[illegible]
3) Dichlorotetrafluoroethane	3.83	135	475855	309.11	ng	#	41
4) Chloromethane	4.10	50	2357536	1989.84	ng	#	9(
5) Vinyl chloride	4.39	62	1895947	1658.92	ng		9[illegible]
6) Bromomethane	5.12	94	1842761	1444.7[illegible]	ng	#	9[illegible]
7) Chloroethane	5.39	64	117017[illegible]	[illegible]			64
8) Trichlorofluoromethane	5.71	101	6807261	1539.6[illegible]	ng		9[illegible]
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[illegible]
12) Methylene chloride	7.76	49	3672897	1572.31	ng		9[illegible]
13) Carbon disulfide	7.87	76	8573072	1651.68	ng		10(
14) methyl-Tert-Butyl Ether	8.06	73	6422859	1764.66	ng		9[illegible]
15) trans-1,2-Dichloroethene	8.34	96	3744323	1708.07	ng		9[illegible]
16) n-Hexane	8.44	57	3627841	1720.28	ng	#	1
17) 1,1-Dichloroethane	9.16	63	6085584	1726.88	ng		9[illegible]
18) cis-1,2-Dichloroethene	10.37	61	4871796	1723.18	ng		91
19) Chloroform	10.70	83	7233937	1698.20	ng		9[illegible]
20) Isooctane	11.64	57	12131564	1766.59	ng		9[illegible]
21) 1,1,1-Trichloroethane	11.53	97	6601753	1698.66	ng		8[illegible]
22) Carbon tetrachloride	12.09	117	6809424	1704.91	ng		9[illegible]
24) 1,2-Dichloroethane	12.37	62	3604880	1690.66	ng	#	9[illegible]
25) 1,2-Dibromoethane	19.27	107	6196330	1618.19	ng		10(
27) Benzene	12.45	78	8500240	1624.48	ng		9[illegible]

(#) = qualifier out of range (m) = manual integration
CMA1500.D TO14S.M Mon Aug 05 18:11:03 2002 Page [illegible]

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

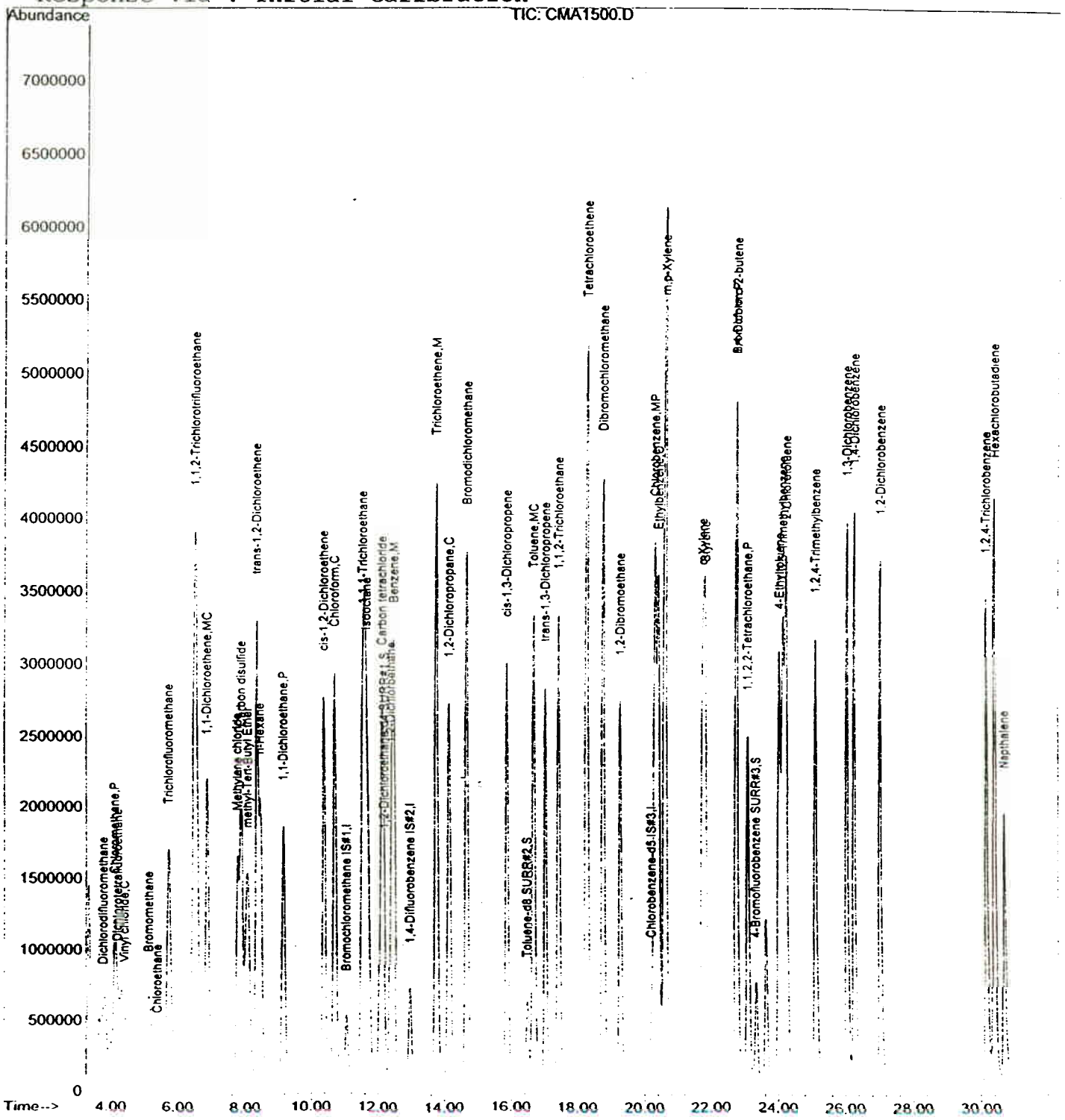
Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Aug 05 17:17:06 2002
Response via : Initial Calibration
DataAcq Meth : TO14S

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
28)	Trichloroethene	13.75	130	4905602	1610.59 ng		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 6 9:22 2002 Quant Results File: TO14S.RE

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

Date 9-16-02 Instrument ID : MARILYN Method TO14 /8260AIR /8260WATER /624MOD

Batch* MAA164 1 2 3 Batch _____ 1 2 3 TO14 8 -MSW- 37 - 1 AIR-SPK 8 -MSW- 36 - 2 Maint. _____

IS# 8 -MSW- 34 - 1 8260 -MSW- - W-SPK -MSW- -

BFB 8 -MSW- 34 - 1

TIME	POS	METH	FILE NAME/ SAMPLE ID	DIL.	RR	PRES	MATRIX	QC PASS**	*INIT	COMMENTS
1005	#1		~~BFM0916A~~				A	✓	~~Jag~~	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	~~AO 9-16-02~~ 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

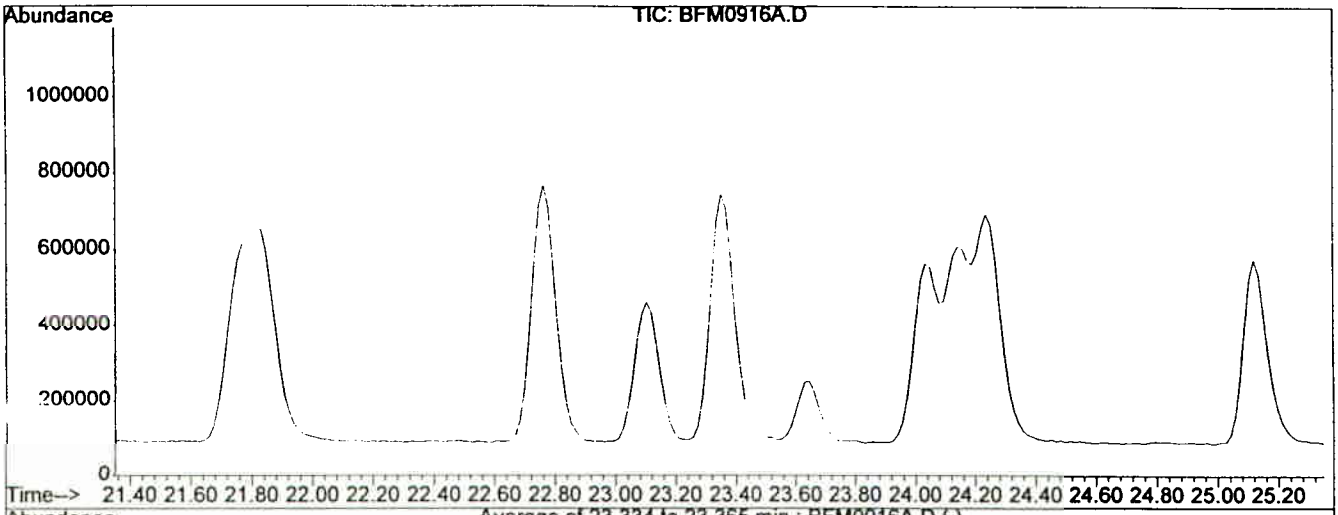
* The analyst whose name appears above is the analyst who removed the sample(s) from the sample storage refrigerator, maintained custody during analysis and relinquished sample(s) back to the sample storage refrigerator.

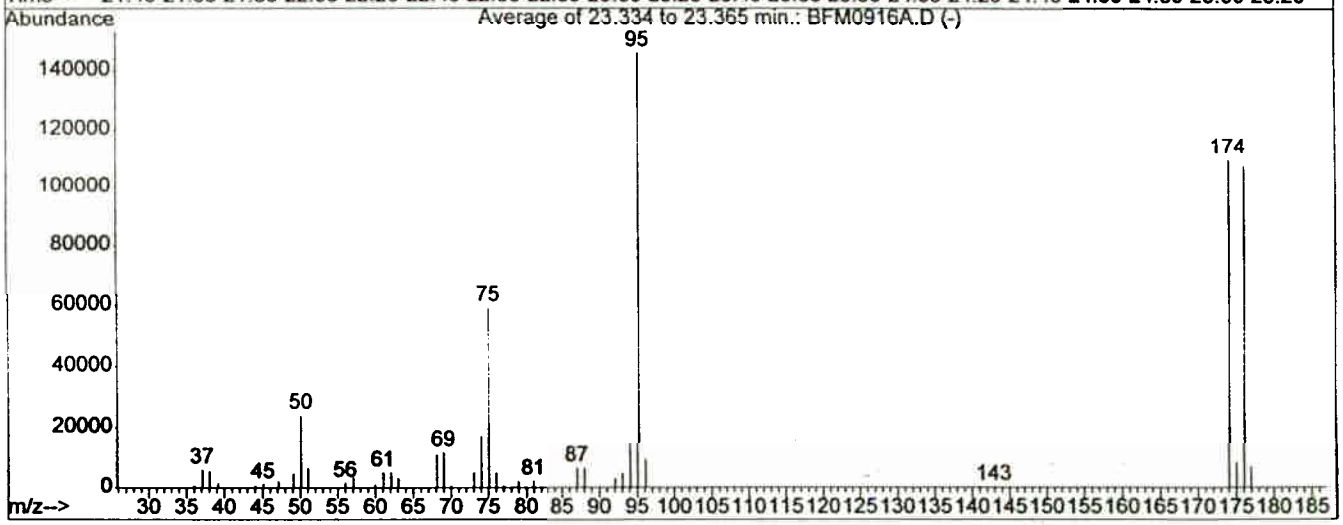
** Iss and surrogates were checked automatically using the software and generic Forms II and VIII that are located in the daily folder.

BFB

Data File : D:\HPCHEM\1\DATA02\M091602A\BFM0916A.D Vial: 1
Acq On : 16 Sep 2002 10:05 Operator: LAD
Sample : TUNE Inst : MARILY
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14

9-16





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

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

9-16-

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

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

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 11:40 2002

Vial: 2
Operator: LAD
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 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(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	586650m	296.32	ng		46
4) Chloromethane	4.10	50	344124	277.41	ng	#	90
5) Vinyl chloride	4.30	62	317012				
6) Bromomethane	5.12	94	2905[illegible]				
7) Chloroethane	5.25	64	222673m	295.69	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	6.88	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

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		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		10
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	24.14	105	1163838m	302.72 ng	#	6
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	26.05	146	897199	275.75 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) Naphthalene	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

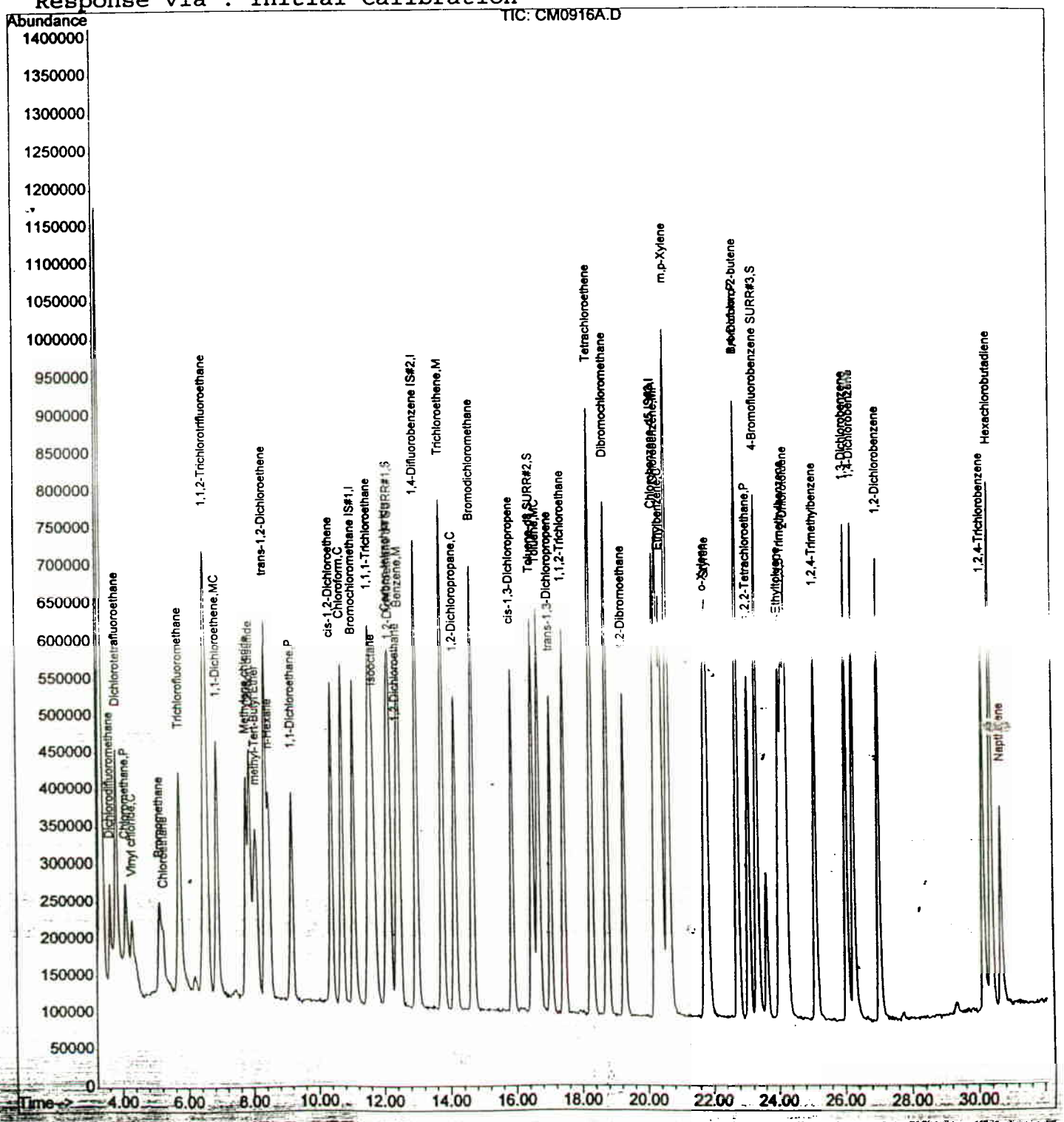
Quantitation Report

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 11:40 2002

Vial: 2
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 11:40:24 2002
Response via : Initial Calibration

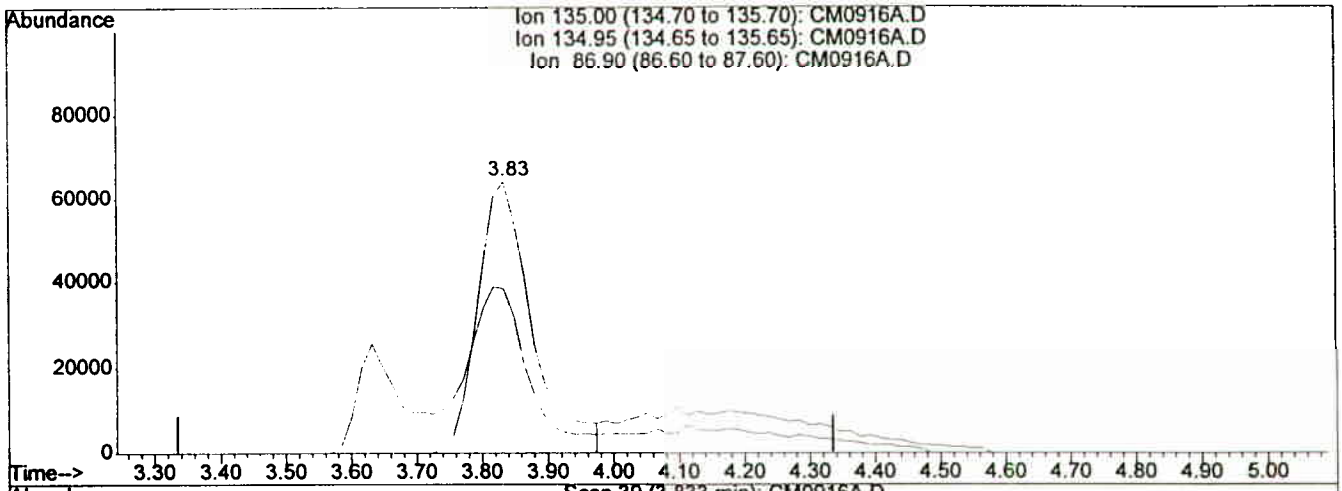


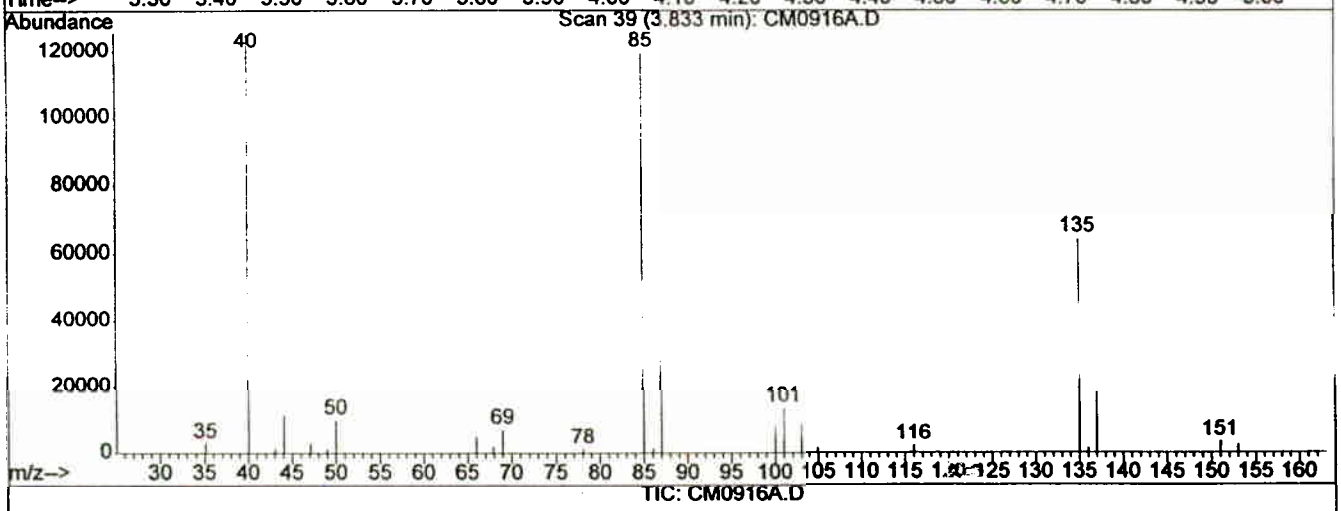
CM0916A.D TO14S.M Mon Sep 16 11:41:14 2002 Page 3

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 11:16 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





(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

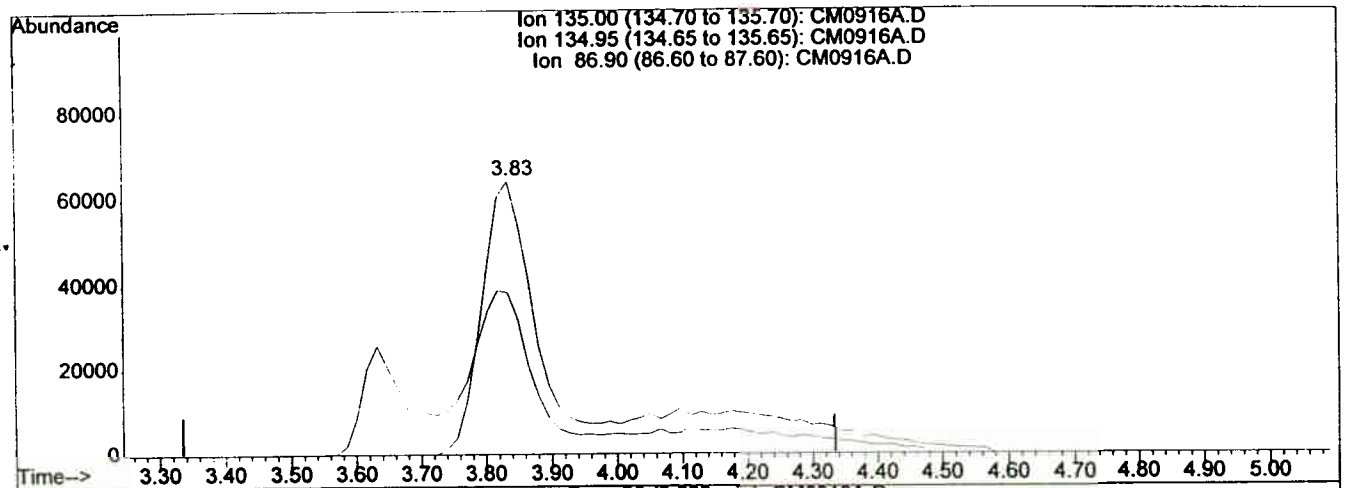
Quantitation Report (Qedit)

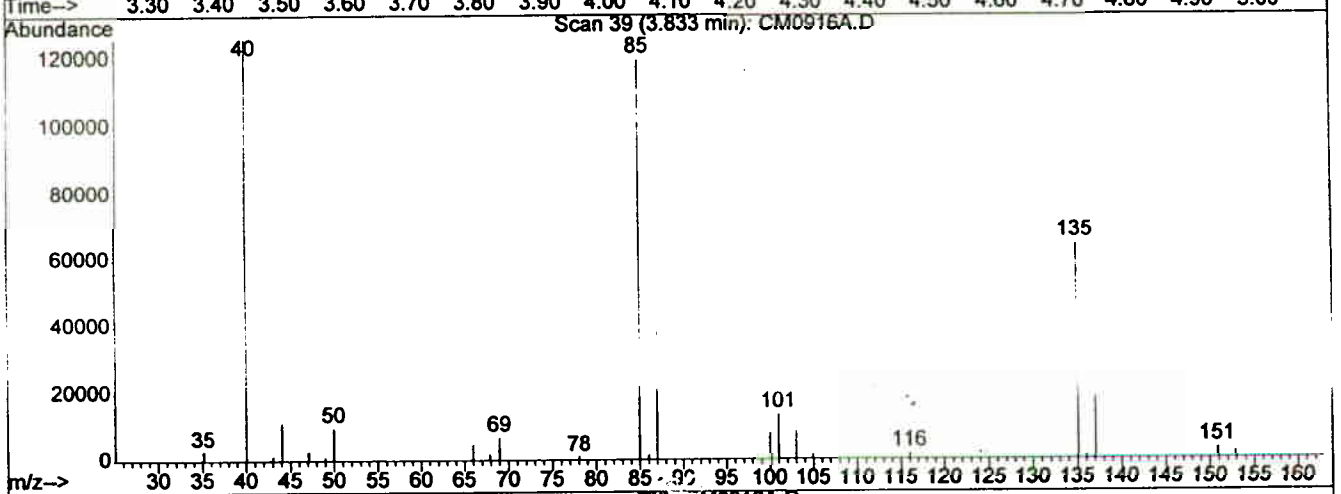
Data File : D:\HPCHEM\1\DATA02\M091602A\CM0916A.D
Acq On : 16 Sep 2002 10:44
Sample : VSTD250\ DAILY CALIBRATION CHECK
Misc : 250ng
MS Integration Params: rteint.p
Quant Time: Sep 16 11:38 2002

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

(3) Dichlorotetrafluoroethane

3.83min 296.32ng m

response 586650

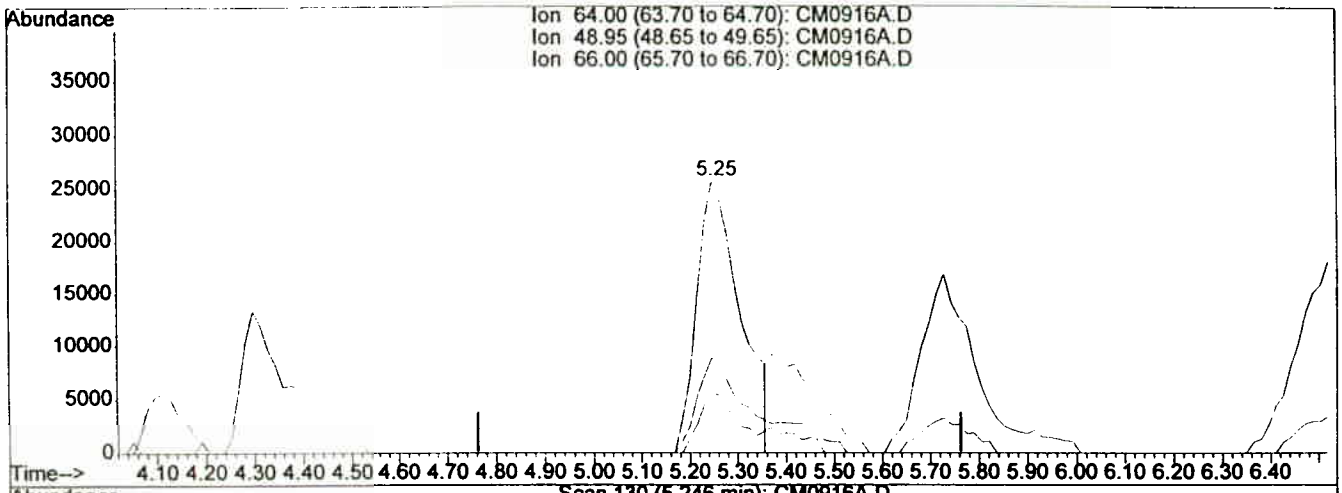
Ion	Exp%	Act%
135.00	100	100
134.95	56.30	62.67
86.90	32.70	36.23
0.00	0.00	0.00

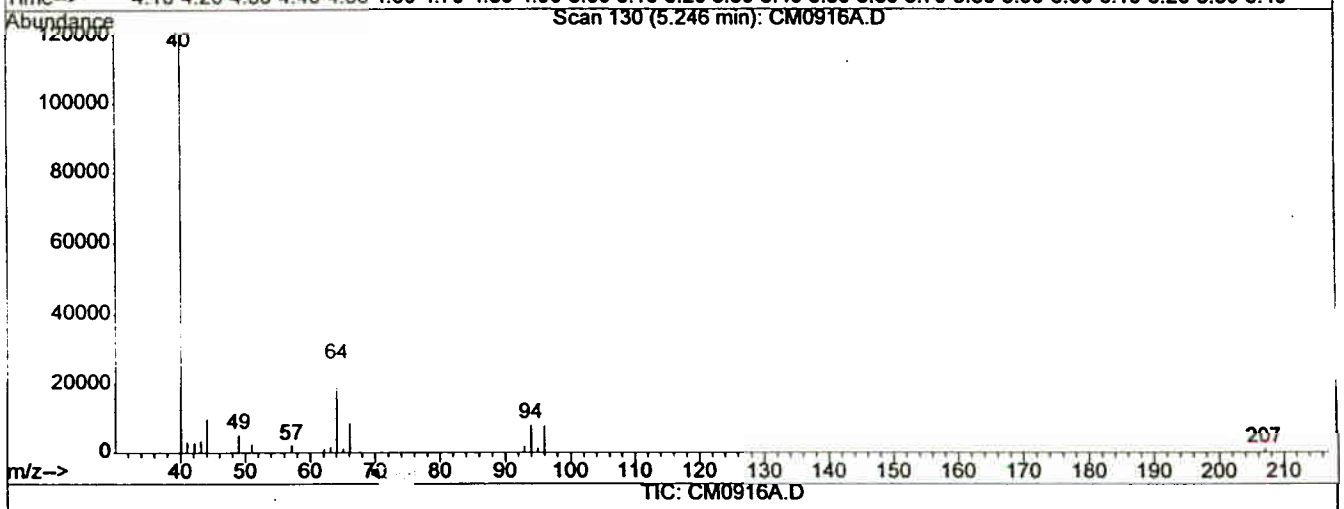
BS 9-16-02

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





(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

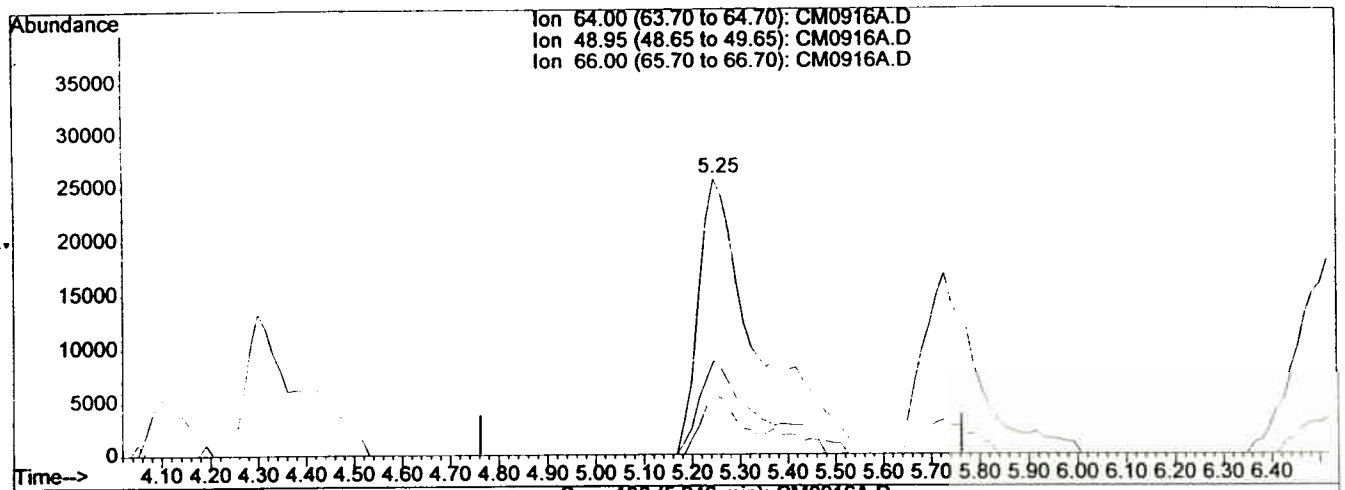
bad integration

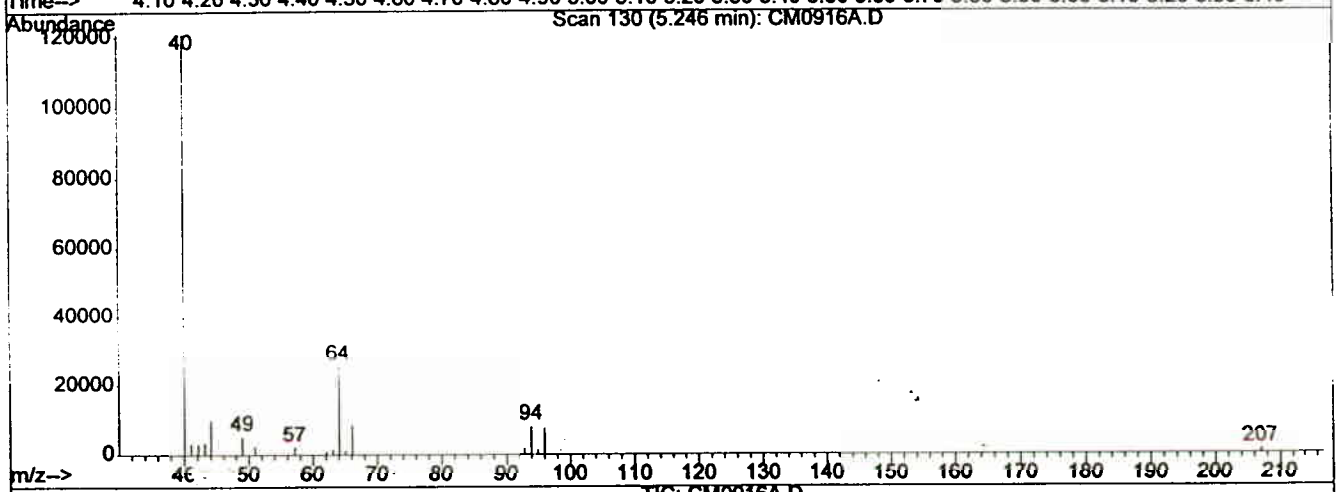
CM0916A.D TO14S.M Mon Sep 16 11:38:53 2002

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 : 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

(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

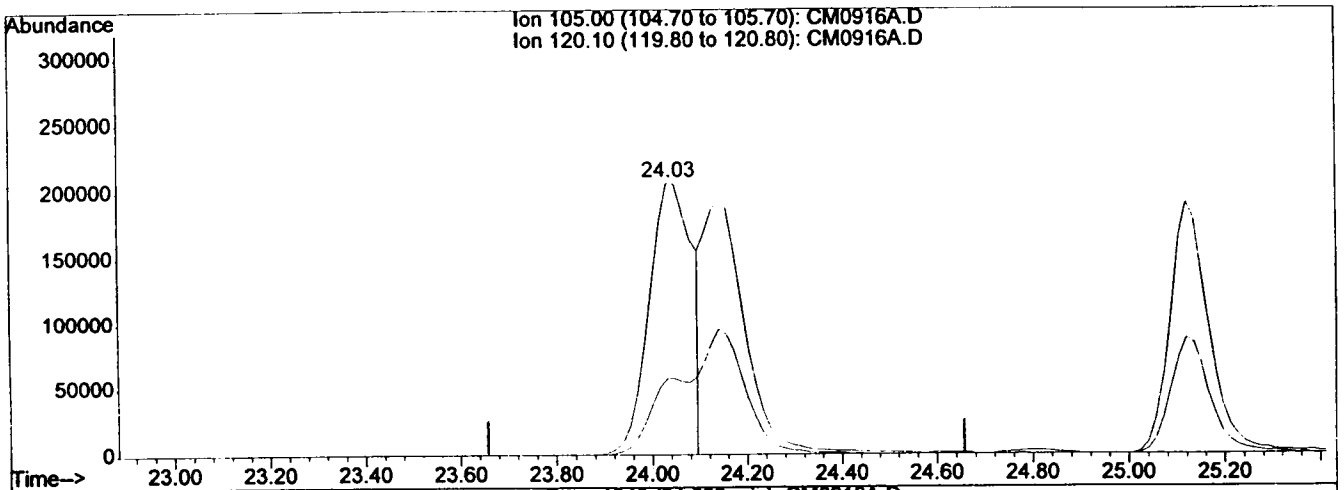
DS 9-16-02

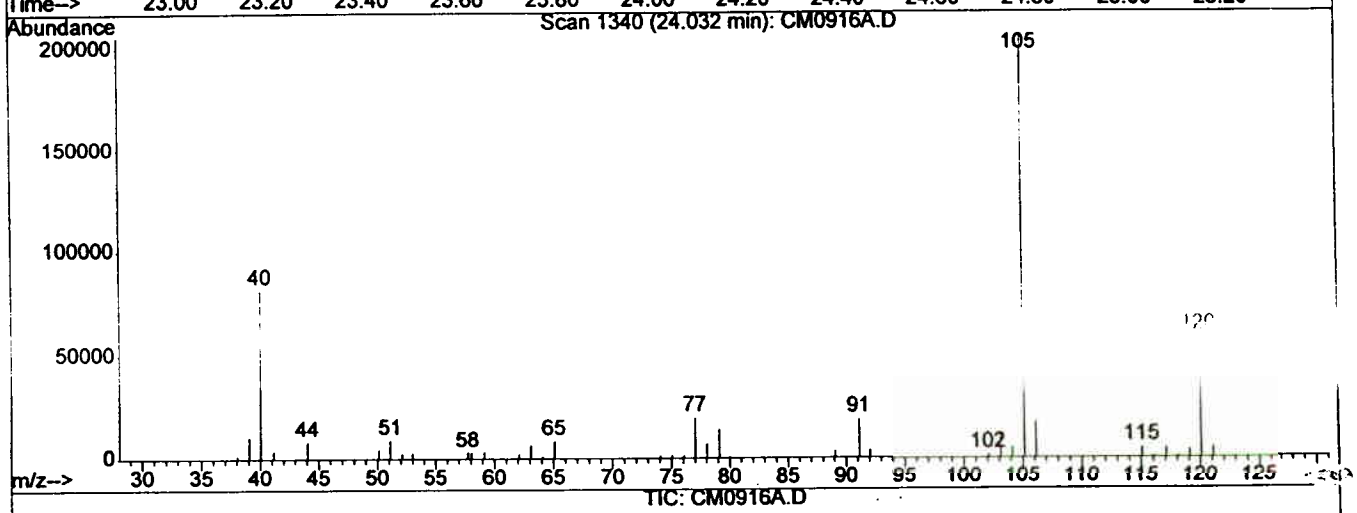
CM0916A.D TO14S.M Mon Sep 16 11:39:09 2002

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.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

24.03min 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

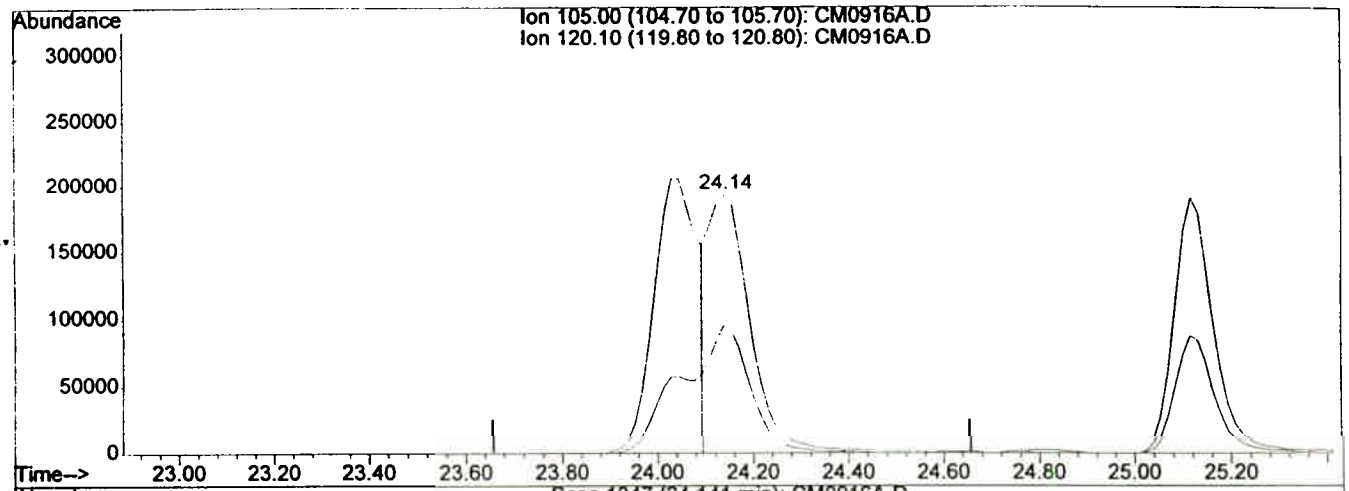
CM0916A.D TO14S.M Mon Sep 16 11:39:42 2002

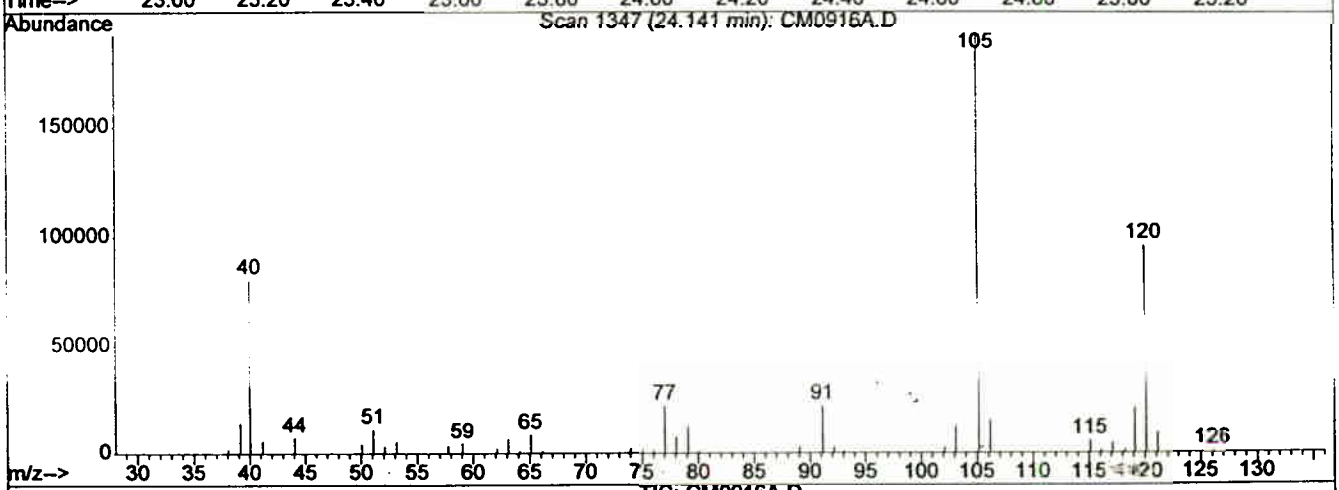
Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA02\M091602A\CM0916A.D
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

(49) 1,3,5-Trimethylbenzene

24.14min 302.72ng m

response 1163838

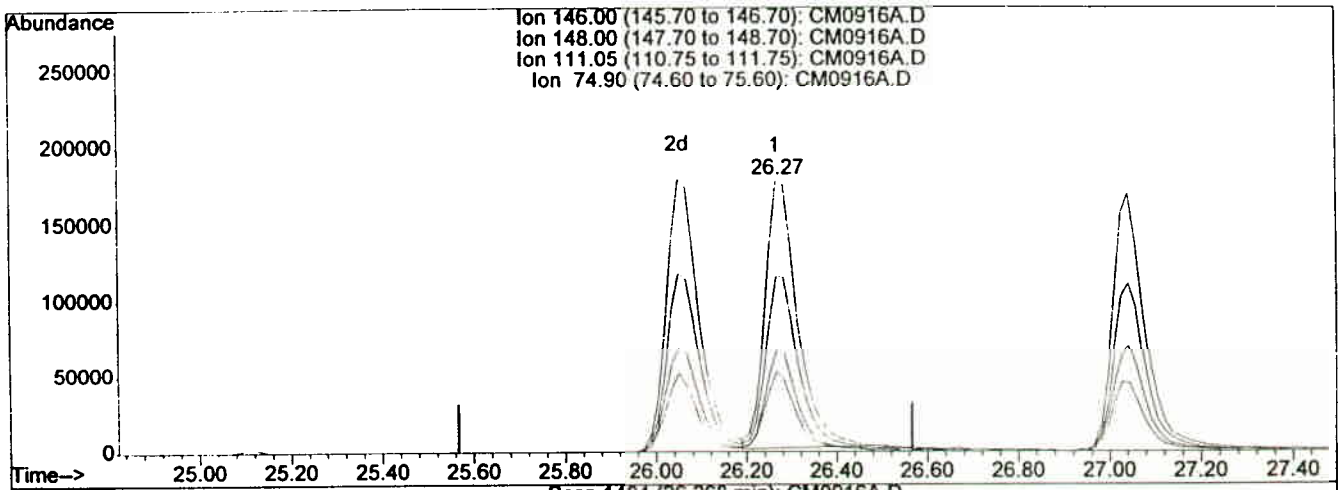
Ion	Exp%	Act%
105.00	100	100
120.10	46.70	28.64#
0.00	0.00	0.00
0.00	0.00	0.00

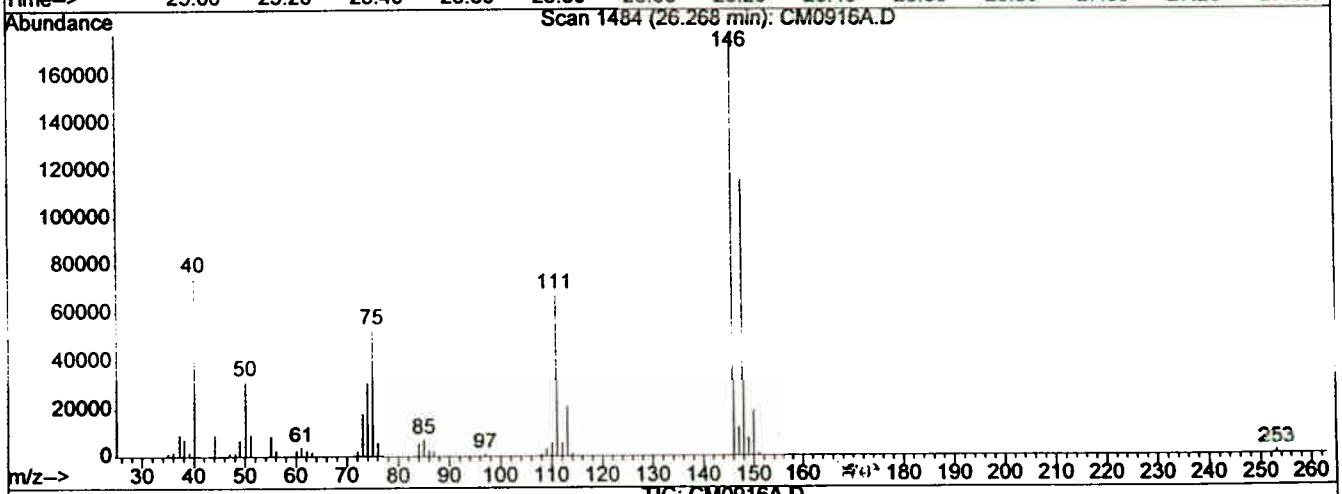
TM 9-16-02

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

(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

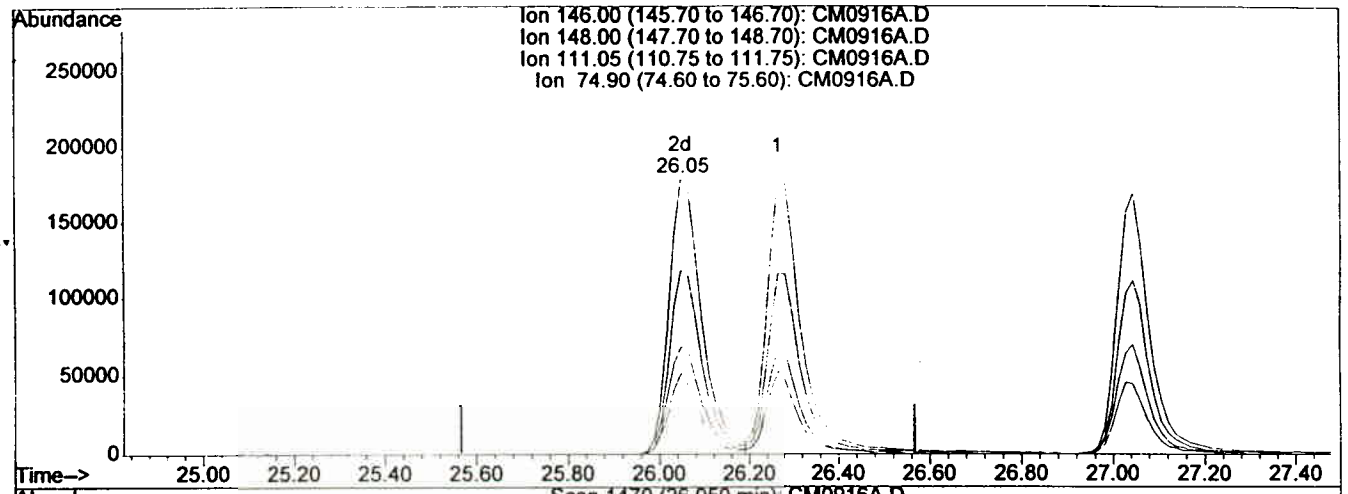
wrong peak

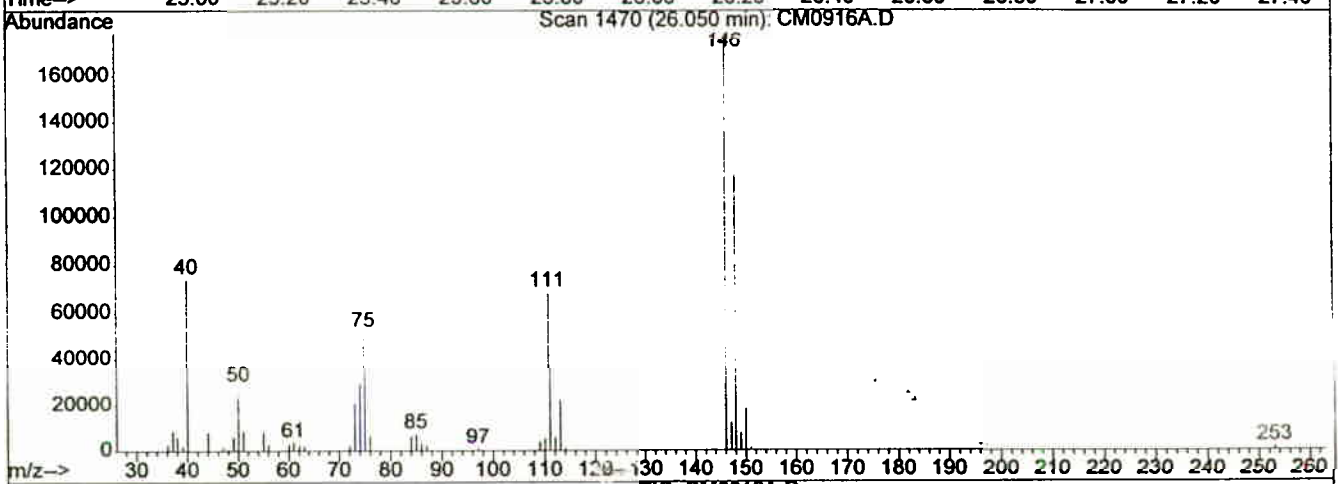
CM0916A.D TO14S.M Mon Sep 16 11:40:05 2002

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 : MARILYN
Misc : 250ng Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 16 11:40 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

(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

9-16-02

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	-0.0 93.27
26) 1,4-Difluorobenzene IS#2	12.99	114	1826554	250.00	ng	-0.0 96.57
36) Chlorobenzene-d5 IS#3	20.23	117	1250080	250.00	ng	-0.0 95.36

System Monitoring Compounds

23) 1,2-Dichloroethane d4 SURR	12.19	65	465544	253.41	ng	-0.0
Spiked Amount 250.000 Range 61 - 140 Recovery = 101.36%						
32) Toluene-d8 SURR#2	16.50	98	1317163	244.30	ng	-0.0
Spiked Amount 250.000 Range 90 - 109 Recovery = 97.72%						
46) 4-Bromofluorobenzene SURR#	23.35	95	967848	250.38	ng	-0.0
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	367670	185.71	ng	#	4
4) Chloromethane	4.10	50	344124	277.41	ng	#	9
5) Vinyl chloride	4.30	62	31[illegible]	[illegible]			8
6) Bromomethane	5.12	94	290505	261.75	ng	#	9
7) Chloroethane	5.25	64	161158	209.68	ng	#	8
8) Trichlorofluoromethane	5.73	101	1077964	260.70	ng		10
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		10
14) methyl-Tert-Butyl Ether	8.06	73	934449	265.49	ng		9
15) trans-1,2-Dichloroethene	8.35	96	584050	277.33	ng		9
16) n-Hexane	8.46	57	513172	247.71	ng	#	
17) 1,1-Dichloroethane	9.17	63	935079	276.35	ng		9
18) cis-1,2-Dichloroethene	10.39	61	759646	280.17	ng		8
19) Chloroform	10.71	83	1137792	281.27	ng		9
20) Isooctane	11.67	57	1743775	261.36	ng		9
21) 1,1,1-Trichloroethane	11.57	97	1022841	277.57	ng		9
22) Carbon tetrachloride	12.12	117	1042489	279.13	ng		9
24) 1,2-Dichloroethane	12.39	62	543453	271.18	ng	#	9
25) 1,2-Dibromoethane	19.28	107	980276	277.75	ng		9
27) Benzene	12.47	78	1359697	264.76	ng		9

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

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		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	24.03	105	1303650	339.09 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	26.27	146	87[illegible]			
53)	1,4-Dichlorobenzene	26.27	146	920975	274.34 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 11:16:29 2002 Page 2

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.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

9-16-

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
33) Toluene	16.70	92	32078	0.02	ng	# 8

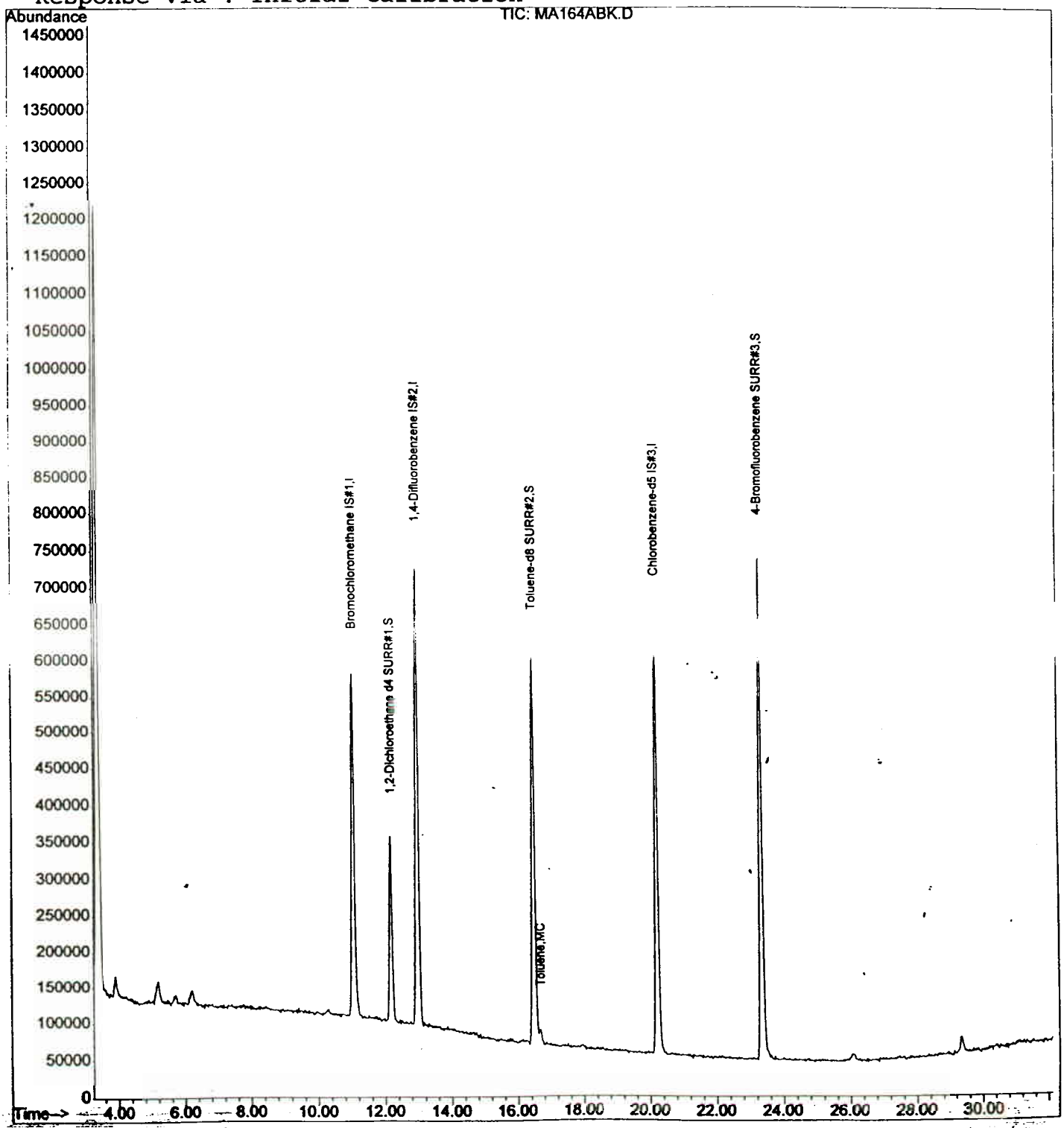
<RL

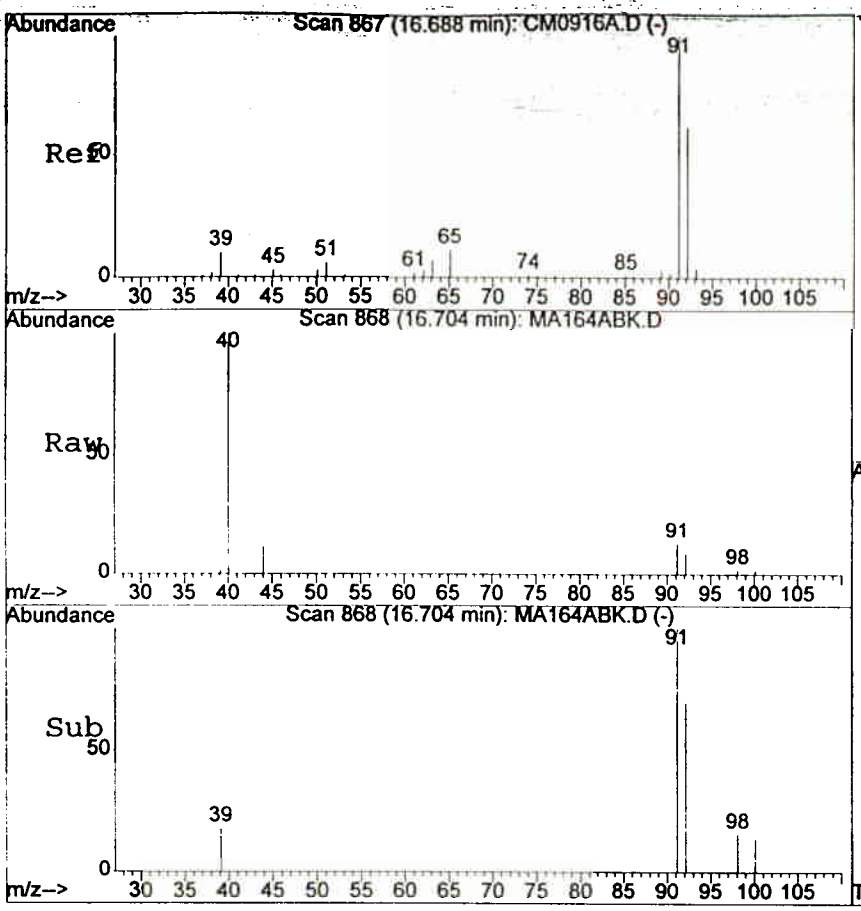
(#) = qualifier out of range (m) = manual integration
MA164ABK.D TO14S.M Mon Sep 16 12:50:16 2002 Page

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.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

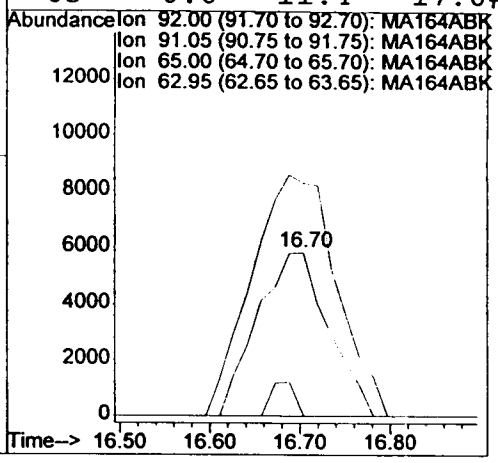




#33
Toluene
Concen: 0.02 ng
RT: 16.70 min Scan# 868
Delta R.T. 0.02 min
Lab File: MA164ABK.D
Acq: 16 Sep 2002 11:22

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 10:44)

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
8) Trichlorofluoromethane	5.76	101	6559	1.51	ng	# 77
12) Methylene chloride	7.78	49	3427	1.50	ng	# 56
13) Carbon disulfide	7.87	76	996	0.19	ng	# 74
16) n-Hexane	8.46	57	[illegible]	[illegible]	[illegible]	[illegible]
20) Isooctane	11.77	57	[illegible]	[illegible]	ng	# 12
33) Toluene	16.70	92	32078	9.93	ng	# 88
56) Napthalene	30.69	128	4413	1.50	ng	# 64

(#) = qualifier out of range (m) = manual integration
MA164ABK.D TO14S.M Mon Sep 16 11:54:40 2002 Page 1

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%	[ ]

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 10:44)

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) Bromochloromethane IS#1	11.08	128	403462	250.00 ng	0.00 97.90%
26) 1,4-Difluorobenzene IS#2	13.00	114	1740894	250.00 ng	0.00 95.31%
36) Chlorobenzene-d5 IS#3	20.24	117	1210599	250.00 ng	0.00 96.84%

System Monitoring Compounds					
23) 1,2-Dichloroethane d4 SURR	12.19	65	467321	259.84 ng	0.00
Spiked Amount 250.000 Range 61 - 140 Recovery = 103.94%					
32) Toluene-d8 SURR#2	16.51	98	1286821	250.41 ng	0.00
Spiked Amount 250.000 Range 90 - 109 Recovery = 100.16%					
46) 4-Bromofluorobenzene SURR#	23.37	95	953633	254.75 ng	0.02
Spiked Amount 250.000 Range 87 - 112 Recovery = 101.90%					

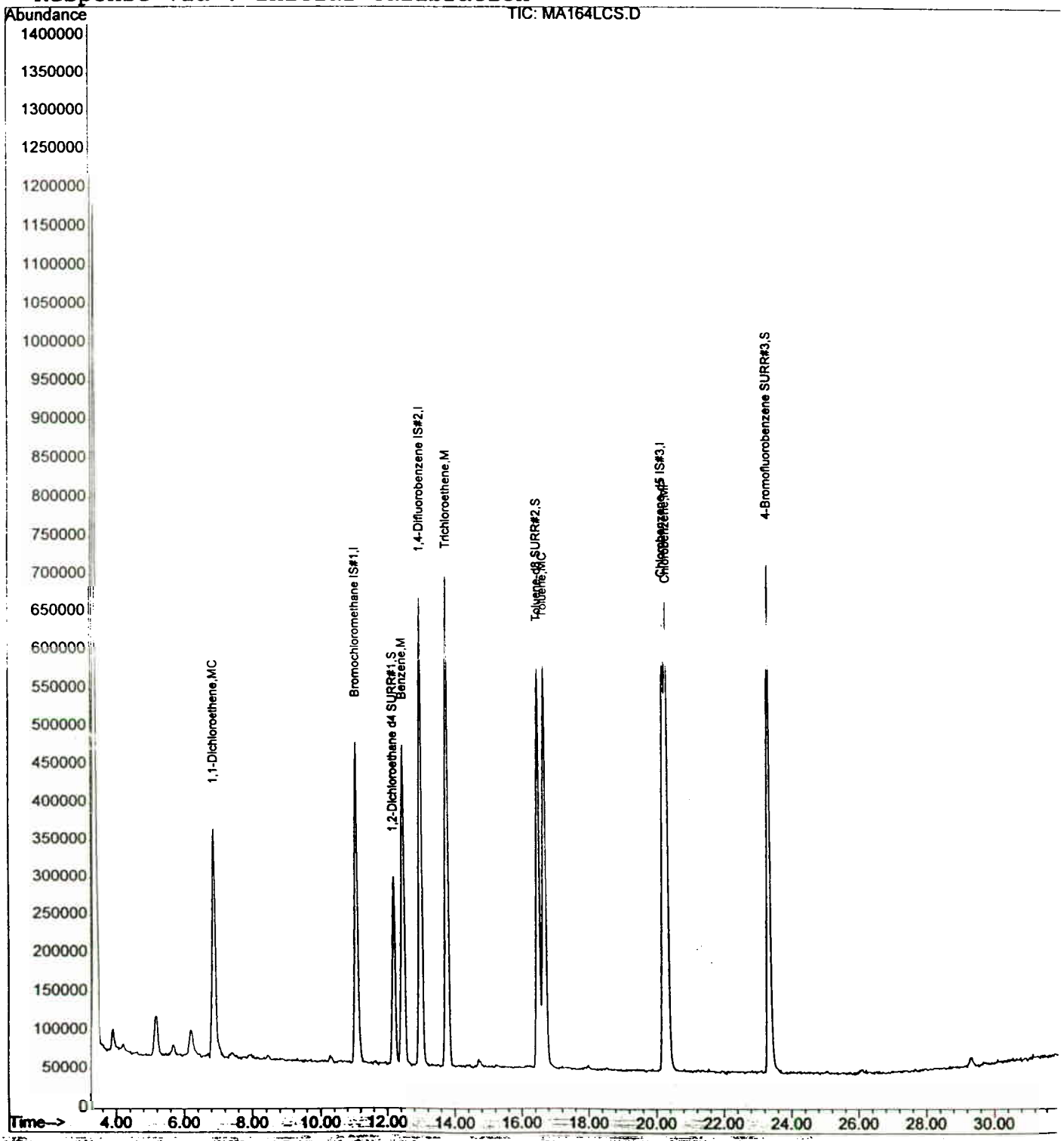
Target Compounds					Qvalue
10) 1,1-Dichloroethene	6.88	96	440673	246.67 ng	86
27) Benzene	12.47	78	1293802	264.32 ng	96
28) Trichloroethene	13.79	130	736336	264.87 ng	93
33) Toluene	16.70	[illegible]	[illegible]	[illegible]	9
39) Chlorobenzene	20.34	112	[illegible]	[illegible]	94

(#) = qualifier out of range (m) = manual integration
MA164LCS.D TO14S.M Mon Sep 16 12:51:16 2002 Page 1

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.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



Quantitation Report

Data File : D:\HPCHEM\1\DATA02\M091602A\92561.D
Acq On : 16 Sep 2002 15:11
Sample : OS=09256-1 BT=A164 RLF=TO14
Misc : AIR Pf/Pi=2.30 DF=1 500ml UN=mg/m3
MS Integration Params: rteint.p
Quant Time: Sep 16 16:15 2002

Vial: 8
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)

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) Bromochloromethane IS#1	11.06	128	353557	250.00 ng	0.00 85.79%
26) 1,4-Difluorobenzene IS#2	12.99	114	1782758	250.00 ng	0.00 97.60%
36) Chlorobenzene-d5 IS#3	20.22	117	1204731	250.00 ng	0.00 96.37%

System Monitoring Compounds					
23) 1,2-Dichloroethane d4 SURR	12.18	65	444232	281.87 ng	0.00
Spiked Amount 250.000	Range 61 - 140		Recovery = 112.75%		
32) Toluene-d8 SURR#2	16.50	98	1323331	251.47 ng	0.00
Spiked Amount 250.000	Range 90 - 109		Recovery = 100.59%		
46) 4-Bromofluorobenzene SURR#	23.34	95	907817	243.69 ng	0.00
Spiked Amount 250.000	Range 87 - 112		Recovery = 97.48%		

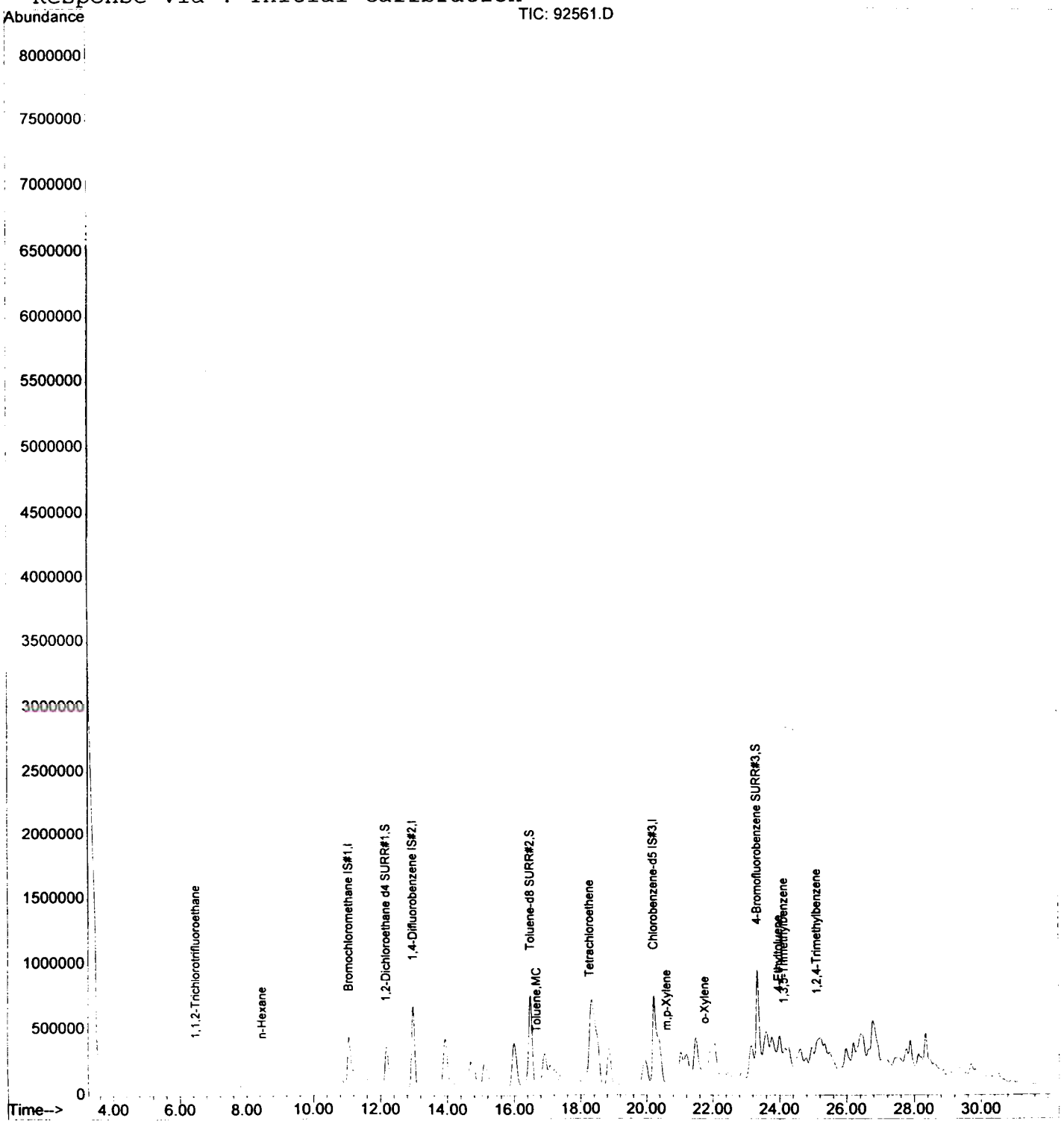
Target Compounds					Qvalue
9) 1,1,2-Trichlorotrifluoroet	6.48	151	19368m	0.03 ng ∠mDL #	58
16) n-Hexane	8.47	57	38245	0.10 ng ✓ #	1
33) Toluene	16.68	92	45990	0.07 ng ✓ #	92
37) Tetrachloroethene	18.28	164			
41) m,p-Xylene	20.61	106	29241	0.07 ng [illegible]	99
42) o-Xylene	21.76	106	22315	0.05 ng ✓	84
48) 4-Ethyltoluene	23.98	105	43062	0.04 ng ∠mDL	90
49) 1,3,5-Trimethylbenzene	24.13	105	146328	0.18 ng ✓	94
51) 1,2,4-Trimethylbenzene	25.11	105	34884	0.04 ng ∠mDL	91

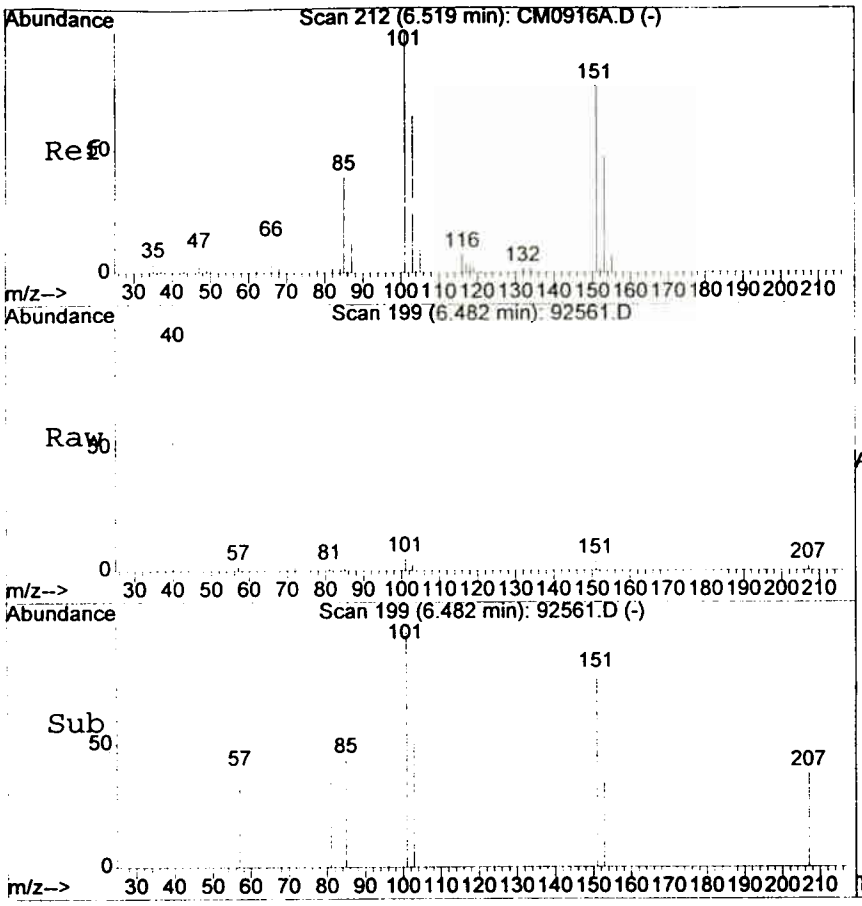
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA02\M091602A\92561.D Vial: 8
Acq On : 16 Sep 2002 15:11 Operator: LAD
Sample : OS=09256-1 BT=A164 RLF=TO14 Inst : MARILYN
Misc : AIR Pf/Pi=2.30 DF=1 500ml UN=mg/m3 Multiplr: 0.00
MS Integration Params: rteint.p
Quant Time: Sep 16 16:15 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

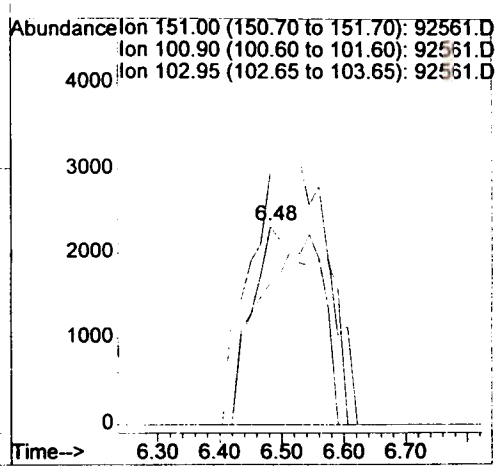


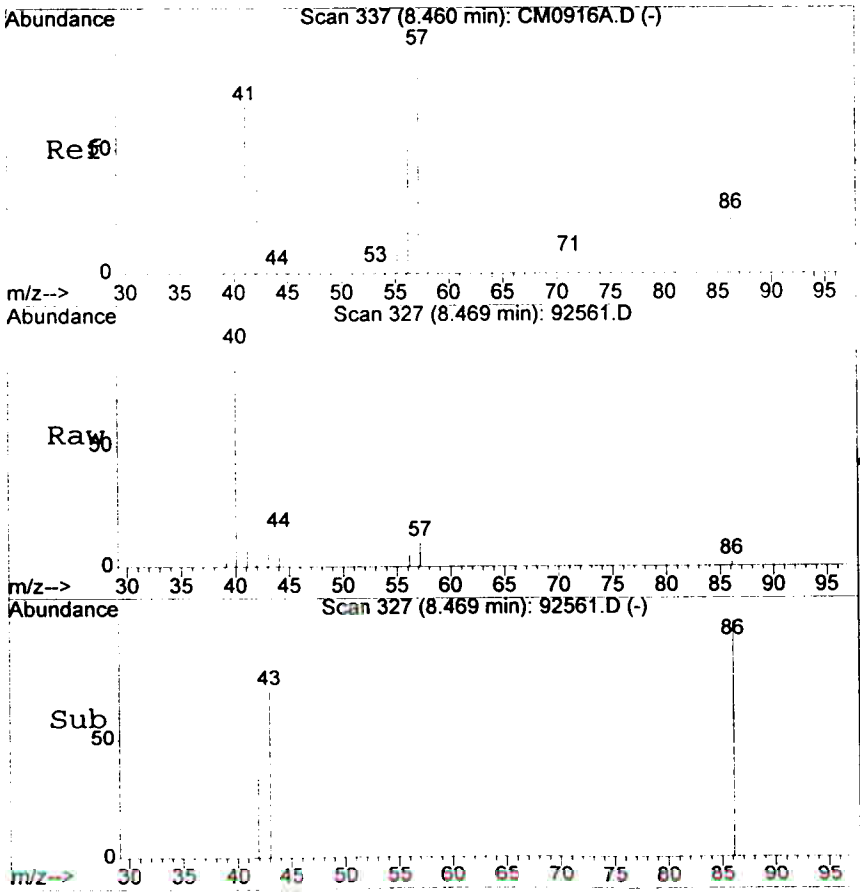


#9
1,1,2-Trichlorotrifluoroeth
Concen: 0.03 ng m
RT: 6.48 min Scan# 199
Delta R.T. -0.04 min
Lab File: 92561.D
Acq: 16 Sep 2002 15:11

Tgt Ion:151 Resp: 19368

Ion	Ratio	Lower	Upper
151	100		
101	134.9	125.0	187.6
103	78.3	81.8	122.6#

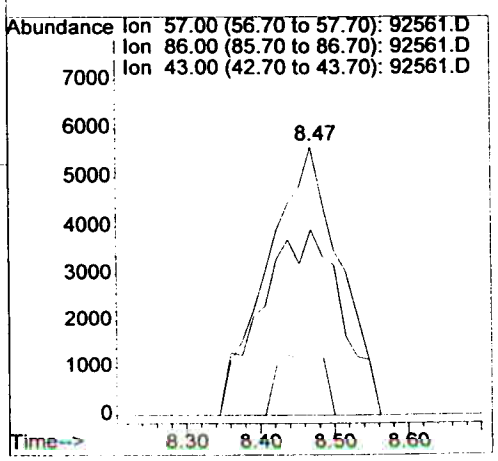




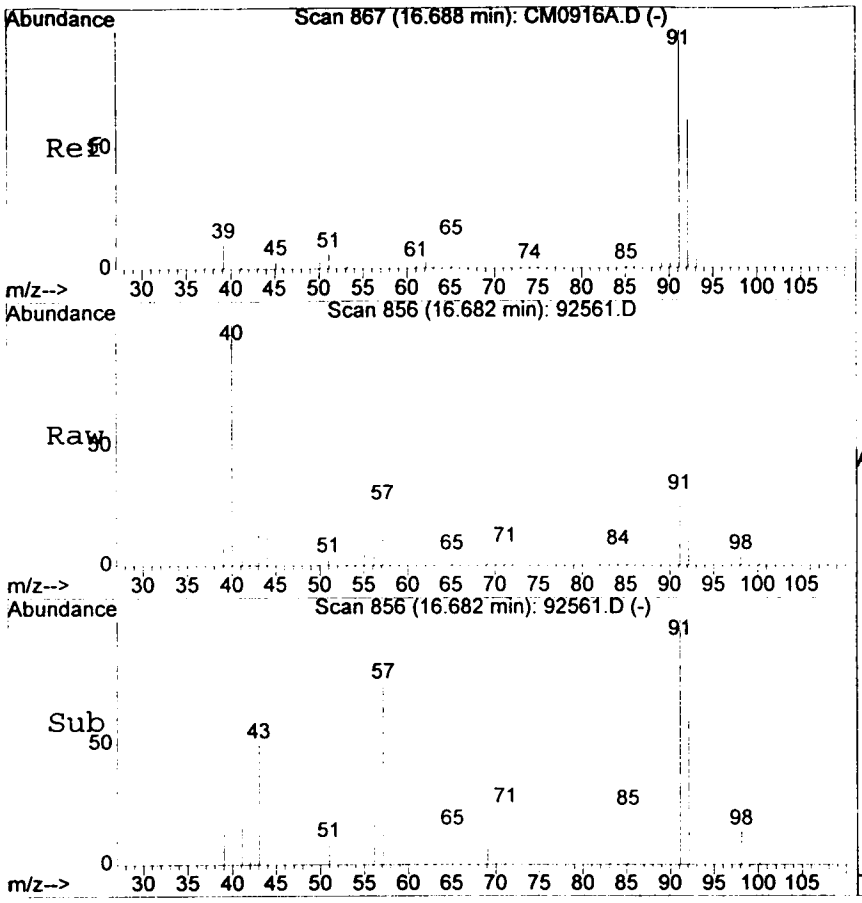
#16
n-Hexane
Concen: 0.10 ng
RT: 8.47 min Scan# 327
Delta R.T. 0.01 min
Lab File: 92561.D
Acq: 16 Sep 2002 15:11

Tgt Ion: 57 Resp: 38245

57	100		
86	14.7	20.0	30.0#
43	42.0	260.0	390.0#



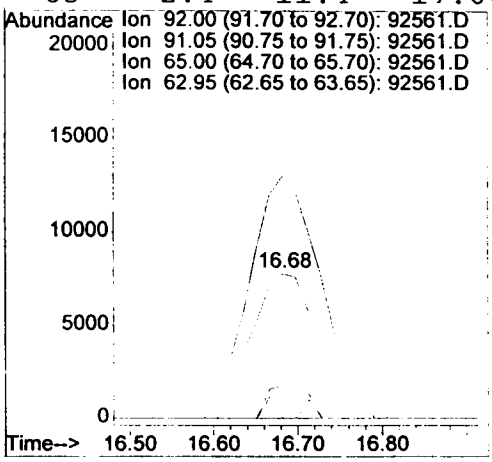
92561.D TO14S.M Acq :16 Sep 2002 15:11
Sample = OS=09256-1 BT=A164 R Misc = AIR Pf/Pi=2.30 DF=1 500ml UN=mg/m3

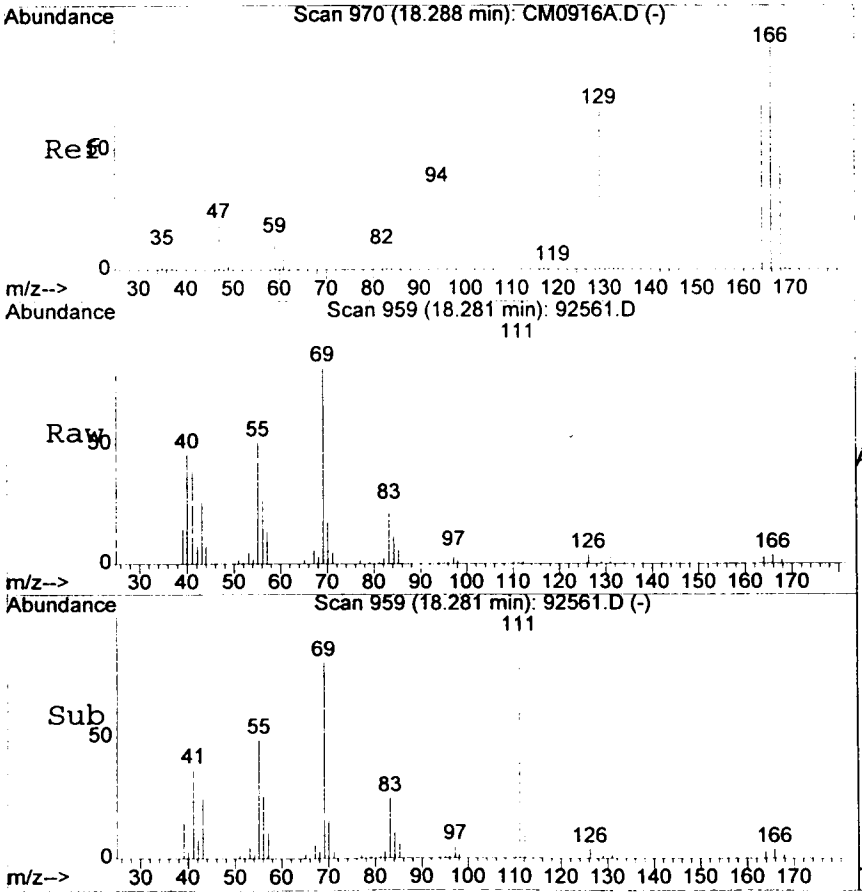


#33
Toluene
Concen: 0.07 ng
RT: 16.68 min Scan# 856
Delta R.T. -0.01 min
Lab File: 92561.D
Acq: 16 Sep 2002 15:11

Tgt Ion: 92 Resp: 45990

Ion	Ratio	Lower	Upper
92	100		
91	171.9	132.1	198.1
65	12.2	16.6	25.0#
63	2.4	11.4	17.0#

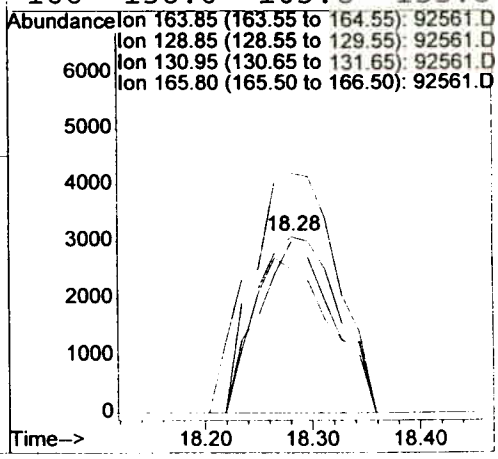




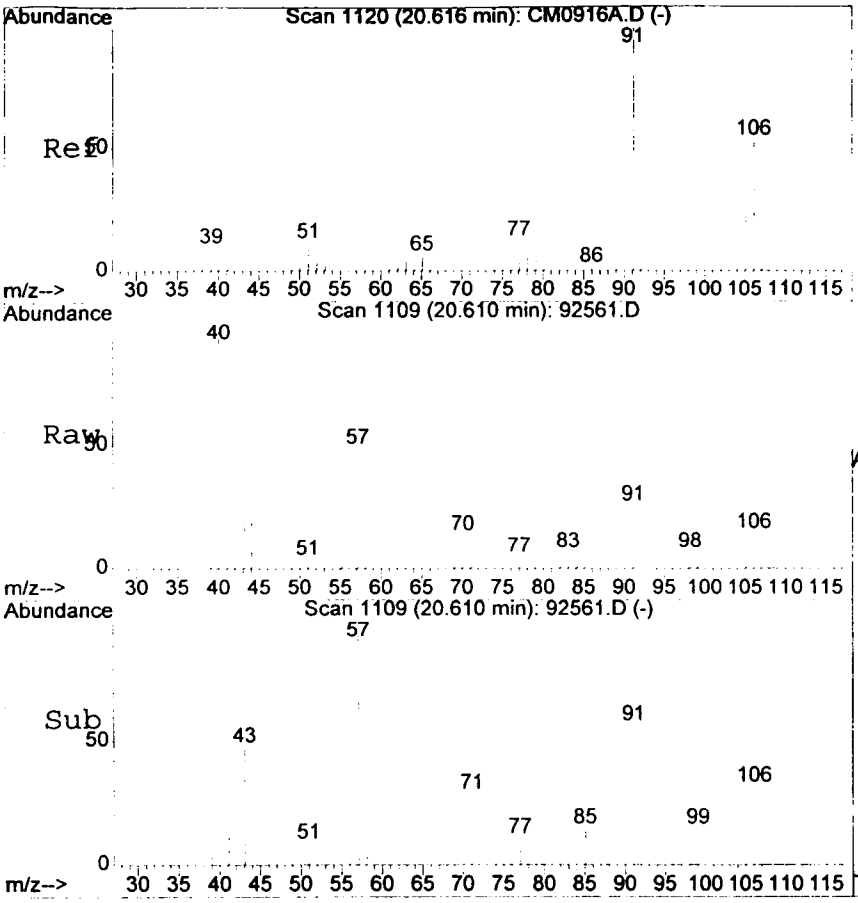
#37
Tetrachloroethene
Concen: 0.03 ng
RT: 18.28 min Scan# 959
Delta R.T. -0.01 min
Lab File: 92561.D
Acq: 16 Sep 2002 15:11

Tgt Ion:164 Resp: 16993

164	100		
129	80.2	80.3	120.5#
131	85.0	78.6	118.0
166	138.6	103.8	155.8



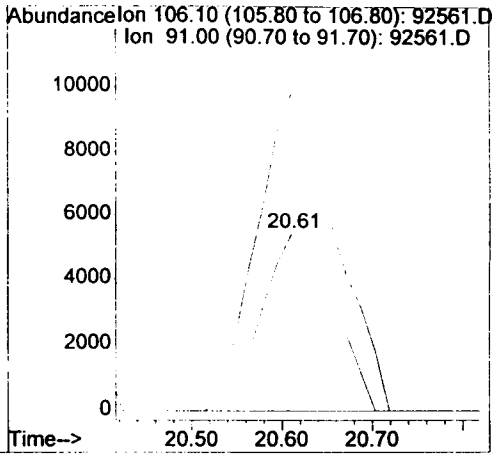
92561.D TO14S.M Acq :16 Sep 2002 15:11
Sample = OS=09256-1 BT=A164 R Misc = AIR Pf/Pi=2.30 DF=1 500ml UN=mg/m3

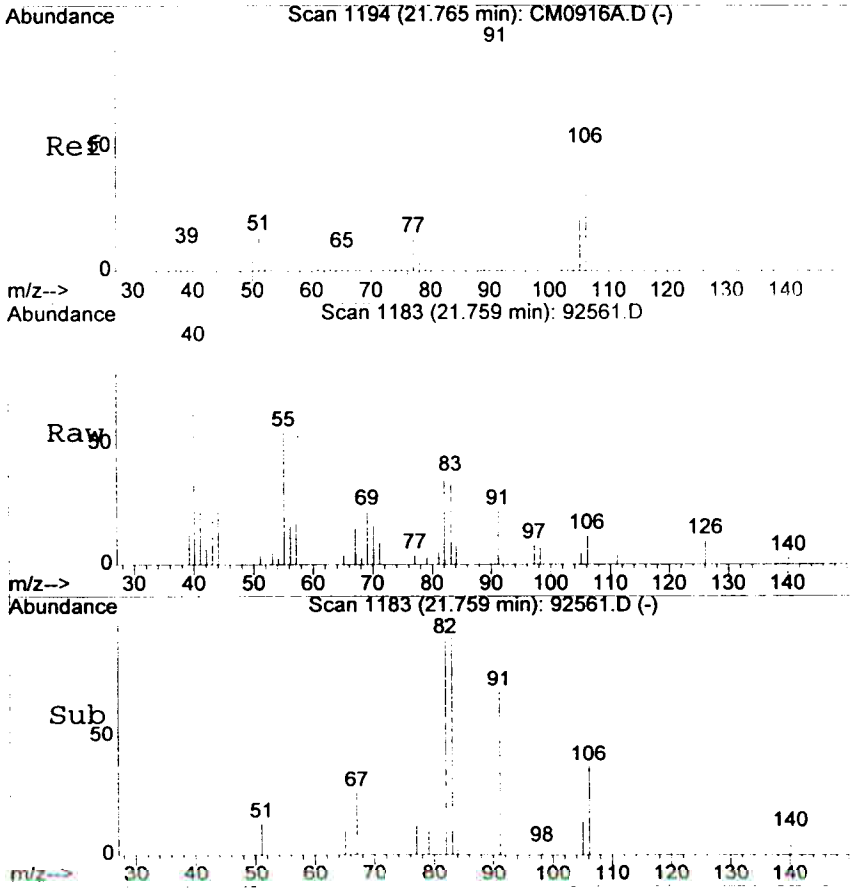


#41
m,p-Xylene
Concen: 0.07 ng
RT: 20.61 min Scan# 1109
Delta R.T. -0.01 min
Lab File: 92561.D
Acq: 16 Sep 2002 15:11

Tgt Ion:106 Resp: 29241

Ion	Ratio	Lower	Upper
106	100		
91	207.4	164.2	246.4

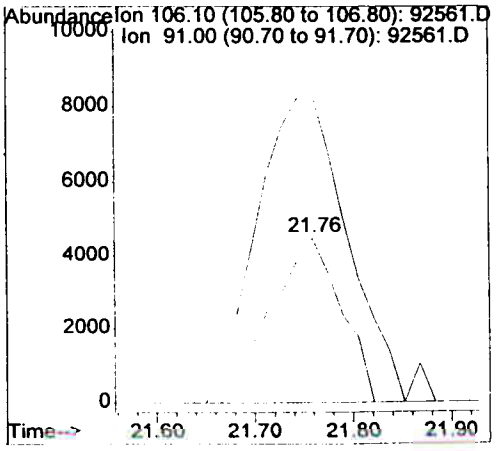




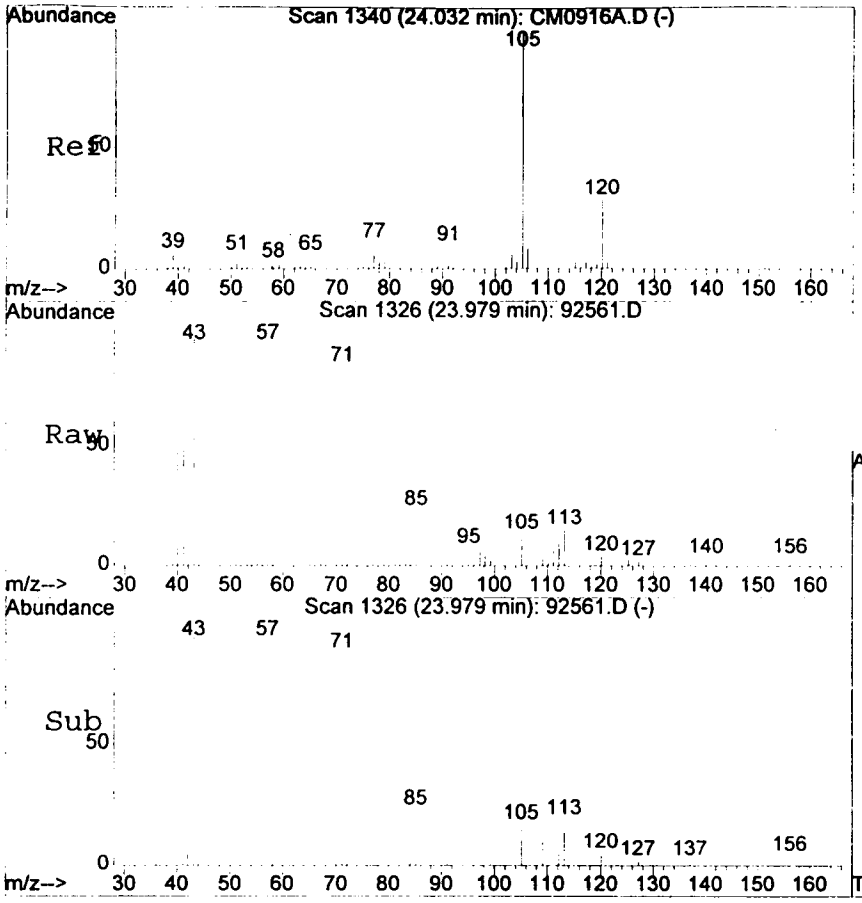
#42
o-Xylene
Concen: 0.05 ng
RT: 21.76 min Scan# 1183
Delta R.T. -0.01 min
Lab File: 92561.D
Acq: 16 Sep 2002 15:11

Tgt Ion:106 Resp: 22315

Ion	Ratio	Lower	Upper
106	100		
91	241.8	172.6	259.0



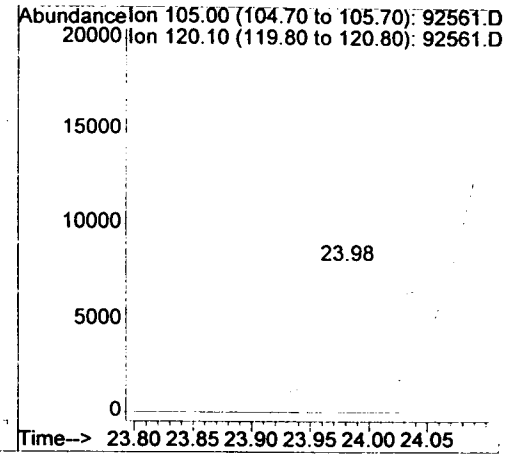
92561.D TO14S.M Acq :16 Sep 2002 15:11
Sample = OS=09256-1 BT=A164 R Misc = AIR Pf/Pi=2.30 DF=1 500ml UN=mg/m3 Page 5

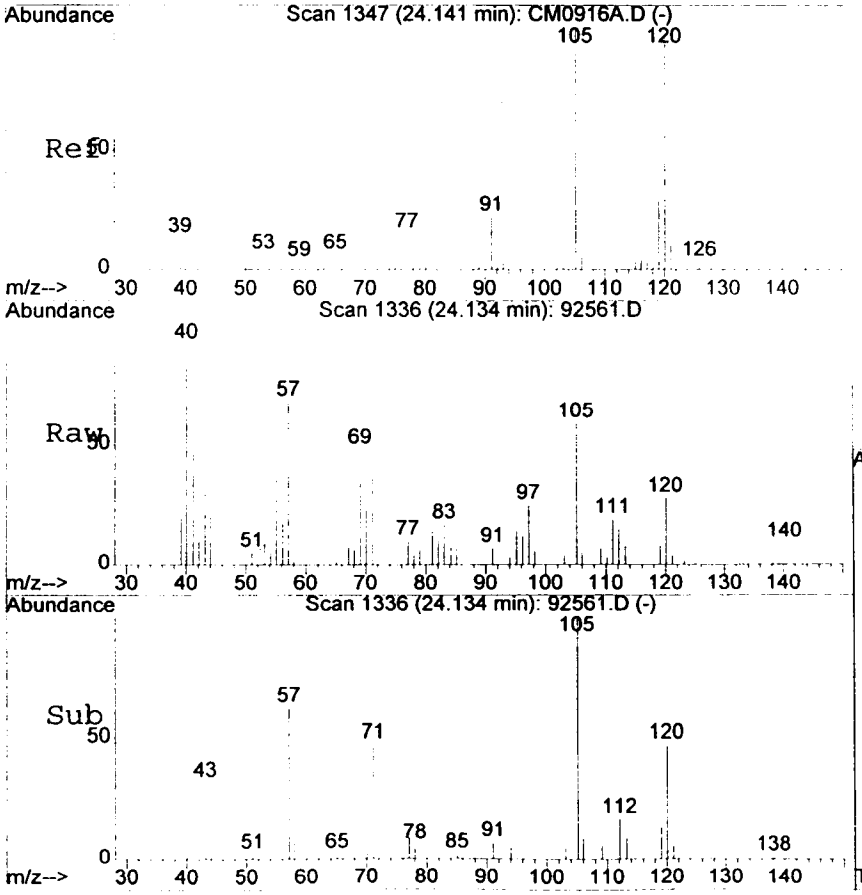


#48
4-Ethyltoluene
Concen: 0.04 ng
RT: 23.98 min Scan# 1326
Delta R.T. -0.05 min
Lab File: 92561.D
Acq: 16 Sep 2002 15:11

Tgt Ion:105 Resp: 43062

Ion	Ratio	Lower	Upper
105	100		
120	23.4	23.0	34.6

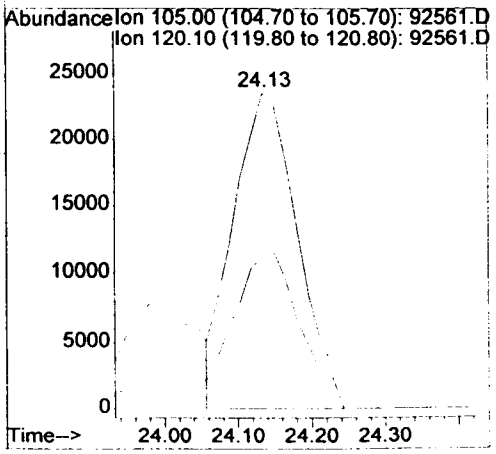




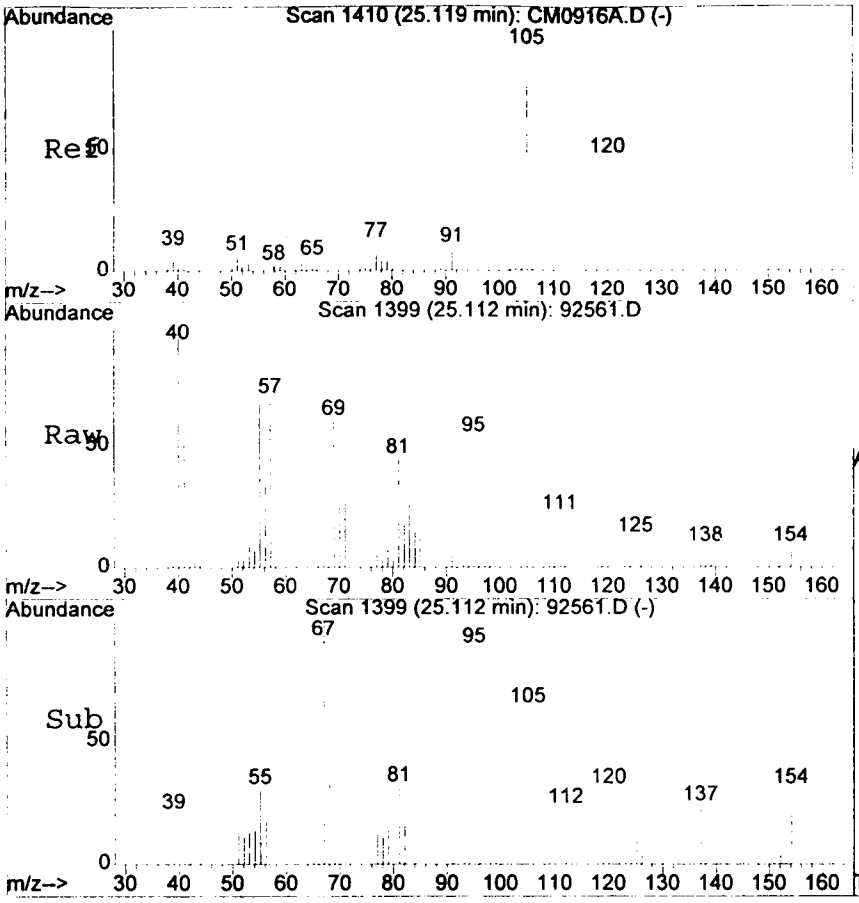
#49
1,3,5-Trimethylbenzene
Concen: 0.18 ng
RT: 24.13 min Scan# 1336
Delta R.T. -0.01 min
Lab File: 92561.D
Acq: 16 Sep 2002 15:11

Tgt Ion:105 Resp: 146328

120	50.4	37.4	56.0



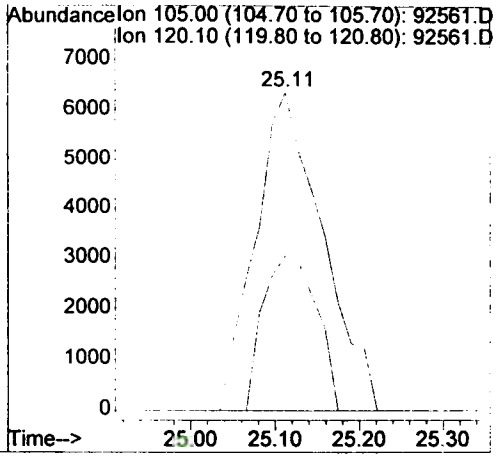
92561.D TO14S.M Acq :16 Sep 2002 15:11
Sample = OS=09256-1 BT=A164 R Misc = AIR Pf/Pi=2.30 DF=1 500ml UN=mg/m3



#51
1,2,4-Trimethylbenzene
Concen: 0.04 ng
RT: 25.11 min Scan# 1399
Delta R.T. -0.01 min
Lab File: 92561.D
Acq: 16 Sep 2002 15:11

Tgt Ion:105 Resp: 34884

Ion	Ratio	Lower	Upper
105	100		
120	38.8	35.9	53.9

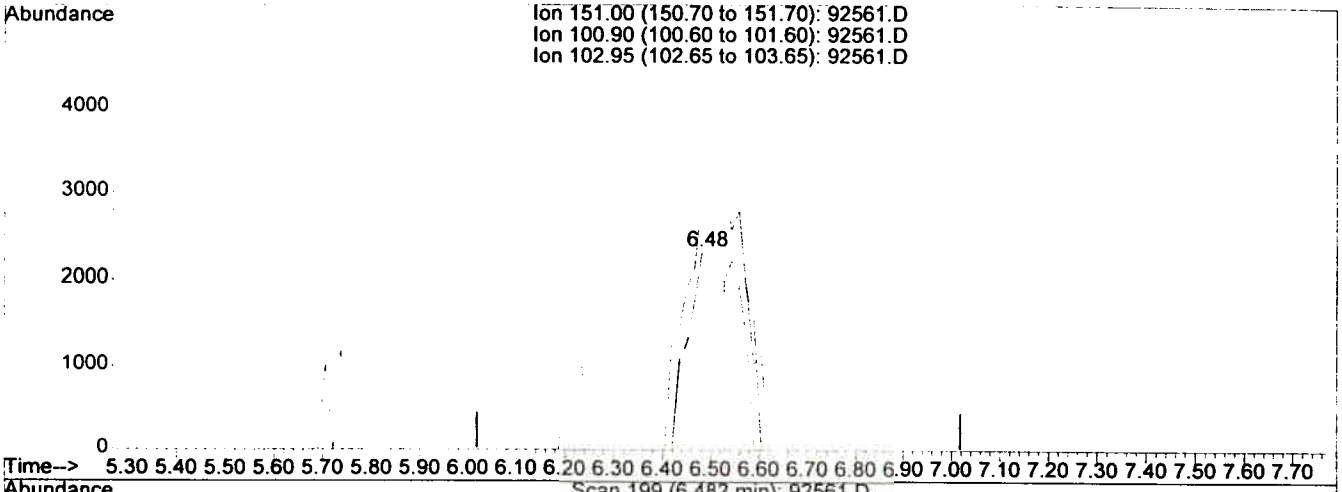


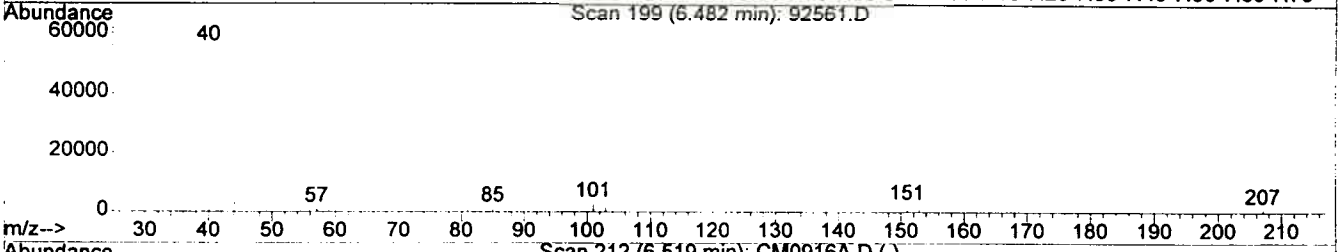
92561.D TO14S.M Acq :16 Sep 2002 15:11
Sample = OS=09256-1 BT=A164 R Misc = AIR Pf/Pi=2.30 DF=1 500ml UN=mg/m3

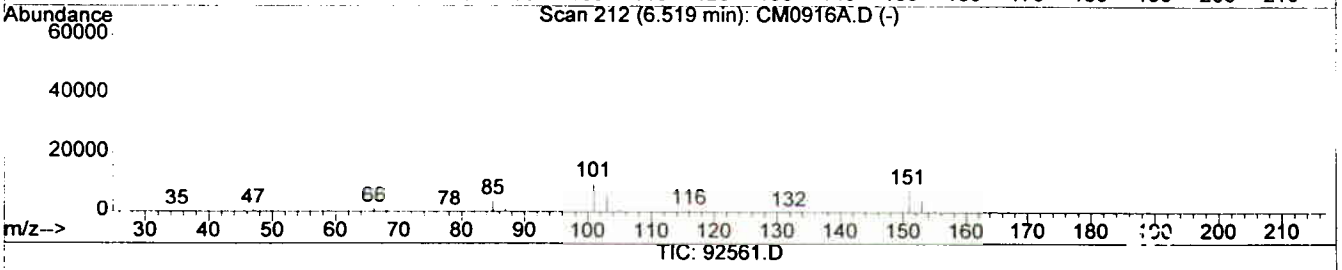
Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA02\M091602A\92561.D Vial: 8
Acq On : 16 Sep 2002 15:11 Operator: LAD
Sample : OS=09256-1 BT=A164 RLF=TO14 Inst : MARILYN
Misc : AIR Pi/Pf=2.30 DF=1 500ml UN=mg/m3 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 16 16:14 2002 Quant Results File: temp.res

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







TIC: 92561.D

(9) 1,1,2-Trichlorotrifluoroethane

6.48min 3.82ng

response 11686

Ion	Exp%	Act%
151.00	100	100
100.90	156.30	223.61#
102.95	102.20	129.74#
0.00	0.00	0.00

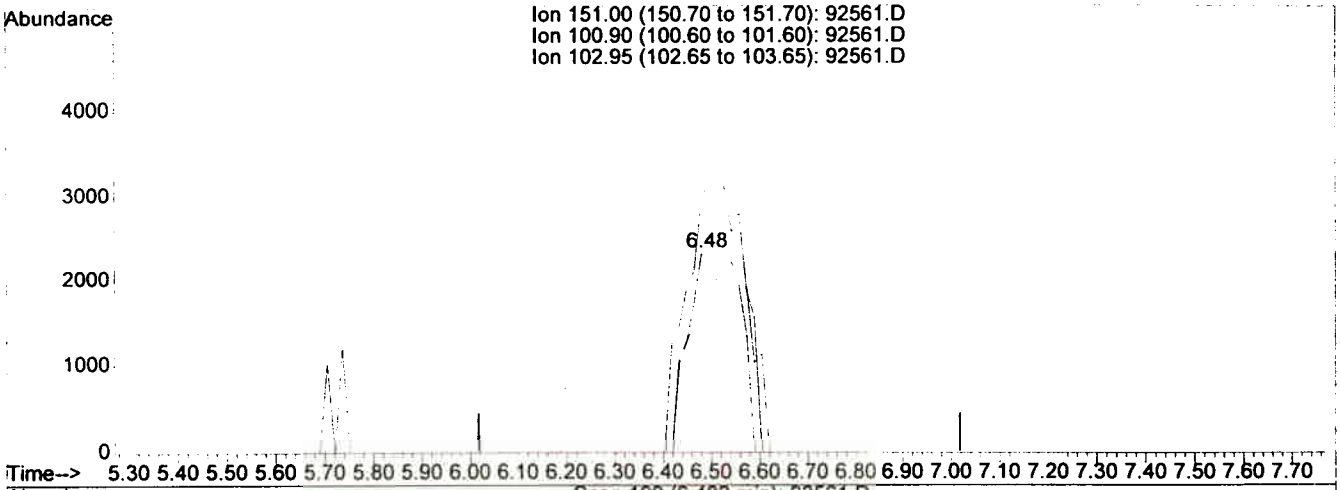
Good integration

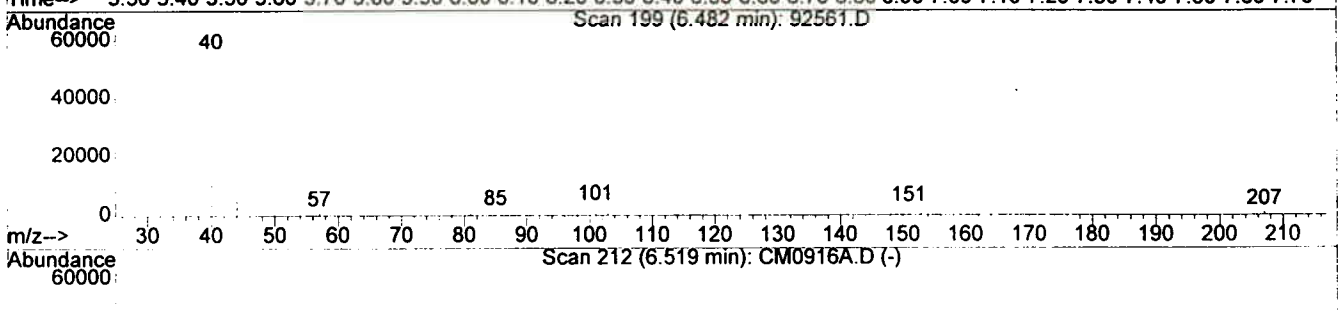
92561.D TO14S.M Mon Sep 16 16:14:17 2002

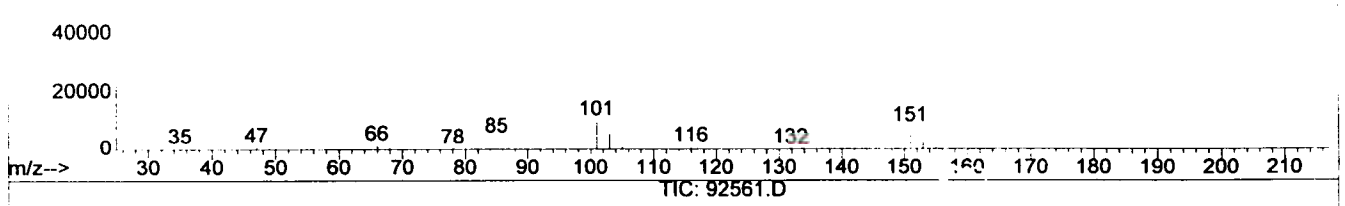
Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA02\M091602A\92561.D Vial: 8
Acq On : 16 Sep 2002 15:11 Operator: LAD
Sample : OS=09256-1 BT=A164 RLF=TO14 Inst : MARILYN
Misc : AIR Pi/Pf=2.30 DF=1 500ml UN=mg/m3 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 16 16:14 2002 Quant Results File: temp.res

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







TIC: 92561.D

(9) 1,1,2-Trichlorotrifluoroethane

6.48min 6.32ng m

response 19368

Ion	Exp%	Act%
151.00	100	100
100.90	156.30	134.92
102.95	102.20	78.28#
0.00	0.00	0.00

JS 9-16-02

92561.D TO14S.M Mon Sep 16 16:14:21 2002

Quantitation Report

Data File : D:\HPCHEM\1\DATA02\M091602A\92561.D Vial: 8
Acq On : 16 Sep 2002 15:11 Operator: LAD
Sample : OS=09256-1 BT=A164 RLF=TO14 Inst : MARILYN
Misc : AIR Pi/Pf=2.30 DF=1 500ml UN=mg/m3 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 16 15:43 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	353557	250.00	ng	0.00 85.79%
26) 1,4-Difluorobenzene IS#2	12.99	114	1782758	250.00	ng	0.00 97.60%
36) Chlorobenzene-d5 IS#3	20.22	117	1204731	250.00	ng	0.00 96.37%

System Monitoring Compounds

23) 1,2-Dichloroethane d4 SURR	12.18	65	444232	281.87	ng	0.00
Spiked Amount 250.000 Range 61 - 140 Recovery = 112.75%						
32) Toluene-d8 SURR#2	16.50	98	1323331	251.47	ng	0.00
Spiked Amount 250.000 Range 90 - 109 Recovery = 100.59%						
46) 4-Bromofluorobenzene SURR#	23.34	95	907817	243.69	ng	0.00
Spiked Amount 250.000 Range 87 - 112 Recovery = 97.48%						

Target Compounds

						Qvalue
8) Trichlorofluoromethane	5.71	101	961	0.27	ng	# 17
9) 1,1,2-Trichlorotrifluoroet	6.48	151	11686	3.82	ng	# 58
12) Methylene chloride	7.79	49	3606	1.93	ng	# 64
13) Carbon disulfide	7.86	76	[illegible]	[illegible]	[illegible]	[illegible]
16) n-Hexane	8.47	57	[illegible]	[illegible]	[illegible]	[illegible]
18) cis-1,2-Dichloroethene	10.29	61	961	0.41	ng	# 21
20) Isooctane	11.65	57	62621	10.94	ng	# 1
30) Bromodichloromethane	14.49	83	16322	3.39	ng	# 25
33) Toluene	16.68	92	45990	14.47	ng	# 92
35) 1,1,2-Trichloroethane	17.60	97	17696	8.41	ng	# 14
37) Tetrachloroethene	18.28	164	16993	6.45	ng	# 87
38) Dibromochloromethane	18.84	127	1186	0.34	ng	# 82
39) Chlorobenzene	20.38	112	4418	1.04	ng	# 20
40) Ethylbenzene	20.41	106	1055	0.63	ng	# 1
41) m,p-Xylene	20.61	106	29241	14.43	ng	99
42) o-Xylene	21.76	106	22315	11.61	ng	84
45) 1,1,2,2-Tetrachloroethane	23.16	83	74970	23.84	ng	# 47
48) 4-Ethyltoluene	23.98	105	43062	8.94	ng	90
49) 1,3,5-Trimethylbenzene	24.13	105	146328	39.49	ng	94
50) 2-Chlorotoluene	24.15	91	20991	4.33	ng	# 47
51) 1,2,4-Trimethylbenzene	25.11	105	34884	9.36	ng	91

(#) = 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	LA83937	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	A014275	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 ketone	LA86031	Supelco	2000 µg/ml	12/2001	6	8-VN 1-13
Equity Iodomethane	LA88752	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 Ketone Mix	A016258	Restek	2000/1000 µg/ml	4/2001	5	8-VN
8260 Matrix Custom	LA89925	Supelco	2000/1000	4/22/2001	3	8-VN 1-17
8260 Volatiles Kit	Various	Restek	2000/limit	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	LA88505	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 4-1
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	LB81787	Supelco	2500 µg/ml	1/7/02	1/2/03	4	8-VN 4-3
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 Keytone	LA97418	Supelco	2000-20000 µg/ml	3/21/02	9/03	3	8-VN 4-1
Iodomethane	LB00103	Supelco	2000 µg/ml	3/21/02	12/02	3	8-VN 4-1
8260 Kit	Various	Restek	Various	3/21/02	Various	2	8-VN 4-1
Freon 113	A021343	Restek	2000 µg/ml	3/21/02	3/03	3	8-VN 4-1
VOA IS (TO14)	A012019	Restek	2500 µg/ml	3/21/02	3/05	3	8-VN 4-14
VOA Sur (TO14)	A021561	Restek	2500 µg/ml	3/21/02	4/06	2	8-VN 4-1
8260 Keytone	LB03079	Supelco	2000-20000 µg/ml	3/22	8/04	3	8-VN 4-1
Custom Mix	LB03455	Supelco	2000-4000 µg/ml	3/25	3/25/03	3	8-VN 4-1
1,2-Methyl Naphthalene	H-cor5005-Mix	Accstd	1000 µg/ml	6/6/02	6/6/03	2	8-VN 4-1
8260 Surr. Mix	A022661	Restek	2500 µg/ml	6/12/02	5/05	10	8-VN 4-1
IPE	A019529	Restek	2000 µg/ml	7/8/02	5/04	3	-VN 4-2
VOA Matrix Spike Mix (Short list-TO14)	LA98398	Supelco	1000 µg/ml	7/23/02	7/1/04	1	8-VN 4-2
Custom TO14 2nd Source (Full list)	820100449	Accu Standard	2000 µg/ml	7/24/02	7/22/03	1	8-VN 4-2
							-VN -
							-VN -
							-VN -
							-VN -
							-VN

GC/MS WORKING STANDARDS LOG

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

Standard I.D.: 8-MSW34-1
Location: 6 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: VC

Standard I.D.: 8-MSW34-2
Location: GC/MS Freezer MS01
Solvent: MeOH Lot V30E4

Parent I.D.	Lot #	Exp. Date	Parent Conc. (ppm) ug/ml	Aliquot (ul)	Final Volume (ml)	Final Conc.
8-VN2-21 (IS)	A018631	08/04	2500 ug/ml	500 ul	50 ml	25 ug/ml
8-VN3-11 (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: 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	2600	625	50	25 µg/ml
Iodomethane 8-VN4-11	LB00103	12/02	↓	↓	↓	↓
Mix 6 8-VN-3-14	LA99456	11/02				
502/504 8-VN-3-15	LA90534	10/03				
Freon 113 8-VN-3-13	LA93546	6/04				
Keytones 8-VN-3-16	LA97418	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

Sol. Name: IS/SURR
Date: 7/25/02
Analyst: DO

Standard I.D.: 8-MSW36-3 AY 7/2
Location: Katarina's Freezer
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: BDK

Standard I.D.: 8 -MSW37 - 1
Location: MS018-STD freezer
Solvent: Methanol Lot V30E4

Parent I.D.	Lot #	Exp. Date	Parent Conc. (ppm) ug/ml	Aliquot (ul)	Final Volume (ml)	Final Conc.
8-VN-4-5	LB-01780	1/2/03	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 SERVICES

STL Pensacola

CASE NARRATIVE

Order: C208603
Project: CTO-0062, CECIL FIELD DAY TANK 1

The following samples were received at STL Pensacola on August 21, 2002 good condition. Please see Project Sample Inspection Sheet (PSIF) for further information.

SAMPLE#	SAMPLE DESCRIPTION	MATRIX
C208603*1	062-SVE-E-A-0821-02-31	Air

Rick Hayes

9-6-02
Date

SEVERN TRENT SERVICES

STL Pensacola

LOG NO: C2-08603
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, CECIL FIELD DAY TANK 1
Sampled By: Client
Code: 08592096

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , AIR SAMPLES	DATE/ TIME SAMPLED
08603-1	062-SVE-E-A-0821-02-31	08-21-02/15:30

PARAMETER	08603-1
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 SERVICES

STL Pensacola

LOG NO: C2-08603
Received: 27 AUG 02
Reported: 06 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, CECIL FIELD DAY TANK 1
Sampled By: Client
Code: 08592096

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , AIR SAMPLES	DATE/ TIME SAMPLED
08603-1	062-SVE-E-A-0821-02-31	08-21-02/15:30

PARAMETER	08603-1
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	0.07J
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	0.070U
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	0.06J
1,3,5-Trimethylbenzene, mg/m3	0.27
Vinyl chloride, mg/m3	0.070U
o-Xylene, mg/m3	0.08
m&p-Xylene, mg/m3	0.09J
Surrogate - 1,2-Dichloroethane-d4	107 %
Surrogate - Toluene-d8	105 %
Surrogate - 4-Bromofluorobenzene	105 %

SEVERN TRENT SERVICES

STL Pensacola

LOG NO: C2-08603
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Reported: 06 SEP 02

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Atlanta, GA 30346

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Contract No.: CT0-0062
Project: CTO-0062, CECIL FIELD DAY TANK 1
Sampled By: Client
Code: 08592096

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , AIR SAMPLES	DATE/ TIME SAMPLED
08603-1	062-SVE-E-A-0821-02-31	08-21-02/15:30

PARAMETER	08603-1
Dilution Factor	1
Prep Date	09.03.02
Prep Time	11:40
Analysis Date	09.03.02
Analysis Time	11:54
Batch ID	MAA154
Prep Method	MOD-TO14
Analyst	BDH

SEVERN TRENT SERVICES

STL Pensacola

LOG NO: C2-08603
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, CECIL FIELD DAY TANK 1
Sampled By: Client
Code: 08592096

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR AIR SAMPLES	DATE/ TIME SAMPLED
08603-2	Method Blank	
08603-3	Lab Control Standard True Value	
08603-4	Lab Control Standard Result	
08603-5	Lab Control Standard % Recovery	
08603-6	LCS Accuracy Control Limit (%R)	

PARAMETER	08603-2	08603-3	08603-4	08603-5	08603-6
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

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LOG NO: C2-08603
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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, CECIL FIELD DAY TANK 1
Sampled By: Client
Code: 08592096

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR AIR SAMPLES	DATE/ TIME SAMPLED
08603-2	Method Blank	
08603-3	Lab Control Standard True Value	
08603-4	Lab Control Standard Result	
08603-5	Lab Control Standard % Recovery	
08603-6	LCS Accuracy Control Limit (%R)	

PARAMETER	08603-2	08603-3	08603-4	08603-5	08603-6
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

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Client PO. No.: 2916

Contract No.: CT0-0062
Project: CTO-0062, CECIL FIELD DAY TANK 1
Sampled By: Client
Code: 08592096

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR AIR SAMPLES	DATE/ TIME SAMPLED
08603-2	Method Blank	
08603-3	Lab Control Standard True Value	
08603-4	Lab Control Standard Result	
08603-5	Lab Control Standard % Recovery	
08603-6	LCS Accuracy Control Limit (%R)	

PARAMETER	08603-2	08603-3	08603-4	08603-5	08603-6
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: C2-08603
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, CECIL FIELD DAY TANK 1
Sampled By: Client
Code: 08592096

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR AIR SAMPLES	DATE/ TIME SAMPLED
08603-2	Method Blank	
08603-3	Lab Control Standard True Value	
08603-4	Lab Control Standard Result	
08603-5	Lab Control Standard % Recovery	
08603-6	LCS Accuracy Control Limit (%R)	

PARAMETER	08603-2	08603-3	08603-4	08603-5	08603-6

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 (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.

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

STL Pensacola
PROJECT SAMPLE INSPECTION FORM

SEVERN TRENT SERVICES

Lab Order #: C208603 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♦? (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): 8347 0807 3543

Shipped By: Fed Ex

Cooler Number(s): CAN # 282

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: MHS Date: 8/27/02 Logged By: PEG 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

C208603

CHAIN-OF-CUSTODY RECORD

COC NUMBER: 163151-057

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 Day Tank I	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.)
Day Tank I 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-0821-02-31	SVE Effluent	AIR	08/21/02	15:30	III/C	14 Day	1							28	8	2	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: Bill Canelos Bill Canelos	8/21/02	16:00	Printed Name and Signature: Federal Express	8/21/02	16:00
Printed Name and Signature:			Printed Name and Signature: Mark Swafford Mark Swafford	8/27/02	9:19
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 Day Tank, CTO-0062

STL Pensacola

C208603

FedEx Express USA Airbill FedEx Tracking Number 8347080735 43

Form I.D. No. 0200

1 From

Date 8/26/02

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. We cannot deliver to P.O. boxes or P.O. ZIP codes.

To "HOLD" at FedEx location, print FedEx address.

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: * Declared value limit $500

5 Packaging

- [ ] 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

Attach one file Label here

CH2M-CONST-GA C206603
CH2M Hill Constructors, Inc. (CCI)

SAMPLE CHECK LIST
STL Pensacola

Paperwork by: JKE
Labeled by:
Delivered by:

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											
k 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											

AIR VOLATILE CASE NARRATIVE

LABORATORY NAME: STL PENSACOLA
CASE NUMBER: NA
SDG#: 208603
PROJECT NAME: N.A.S. Cecil Field, Day Tank 1

RECEIVED: August 27, 2002

CLIENT ID#	STL ID #	STL SAMPLE NAME IN PACKAGE
062-SVE-E-A-0821-02-31	208603-1	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
86031	062SVEEA0821023	107	105	105	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 #	208603					
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%	[ ]
[illegible]	[illegible]	Toluene	261.73	250.00	104.69	86 to 113%	[ ]
[illegible]	[illegible]	[illegible]orobenzene	270.52	250.00	108.21	88 to 111%	[ ]

4A

EPA SAMPLE NO.

VOLATILE METHOD BLANK SUMMARY

VBLKMA

Lab Name: STL PENSACOLA Contract: N/A

Lab Code: STL PN Case No.: N/A SAS No.: N/A SDG No.: C208603

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	062SVEEA08210231\ 86	86031.D	11:53

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.: C208603

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.: 208603

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
	66.0% of mass 95 - - - - - - - - - - - - - -	41.1
	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	062SVEEA08210231\8	86031.D	9/03/02	11:53

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

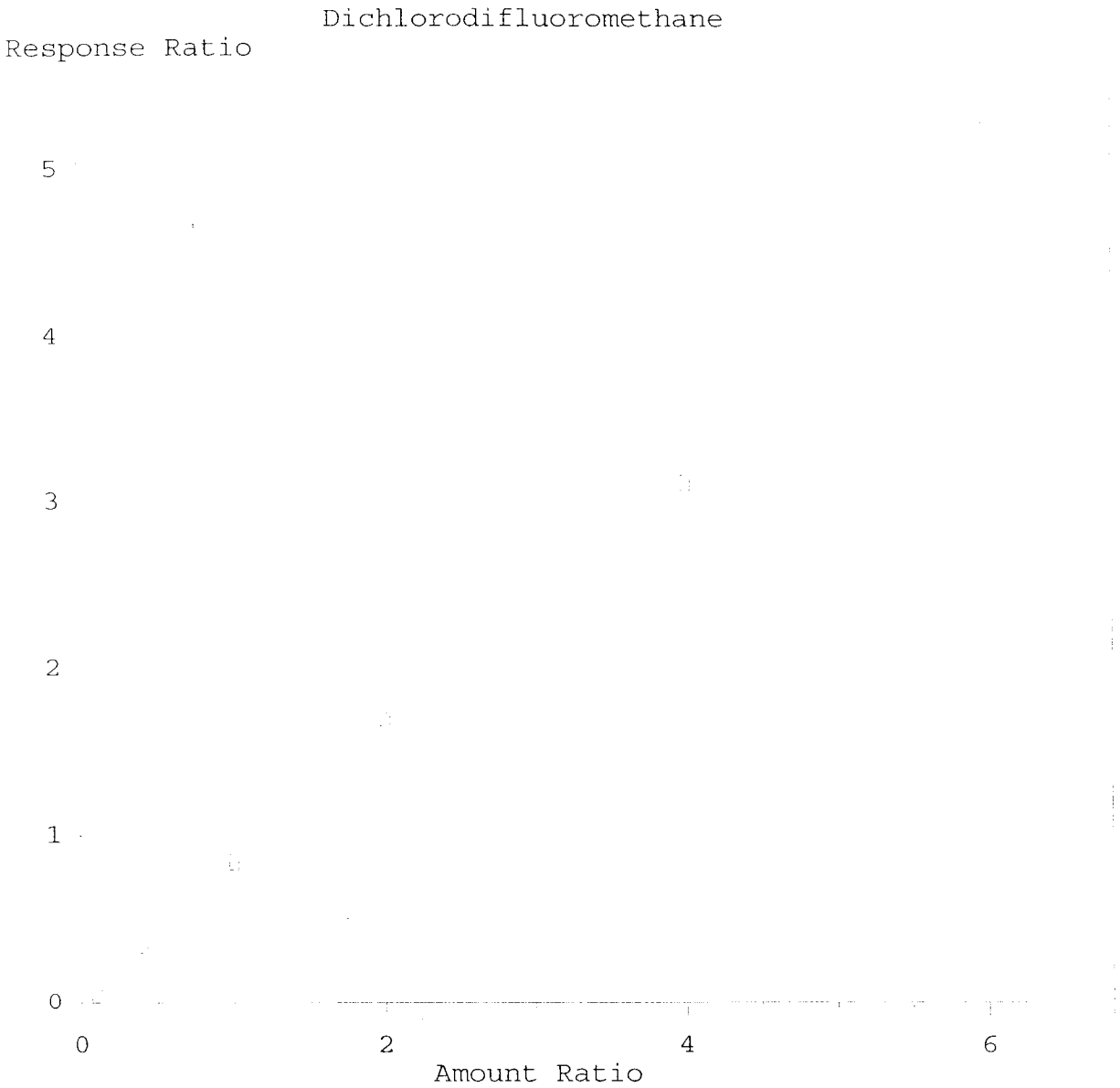
Method : D:\HPCHEM\1\METHODS\MARILYN\CRV080502 TO14\TO14S.M (RTE Inte
Title : TO14
Last Update : Tue Sep 03 16:09:28 2002
Response via : Initial Calibration

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)		,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

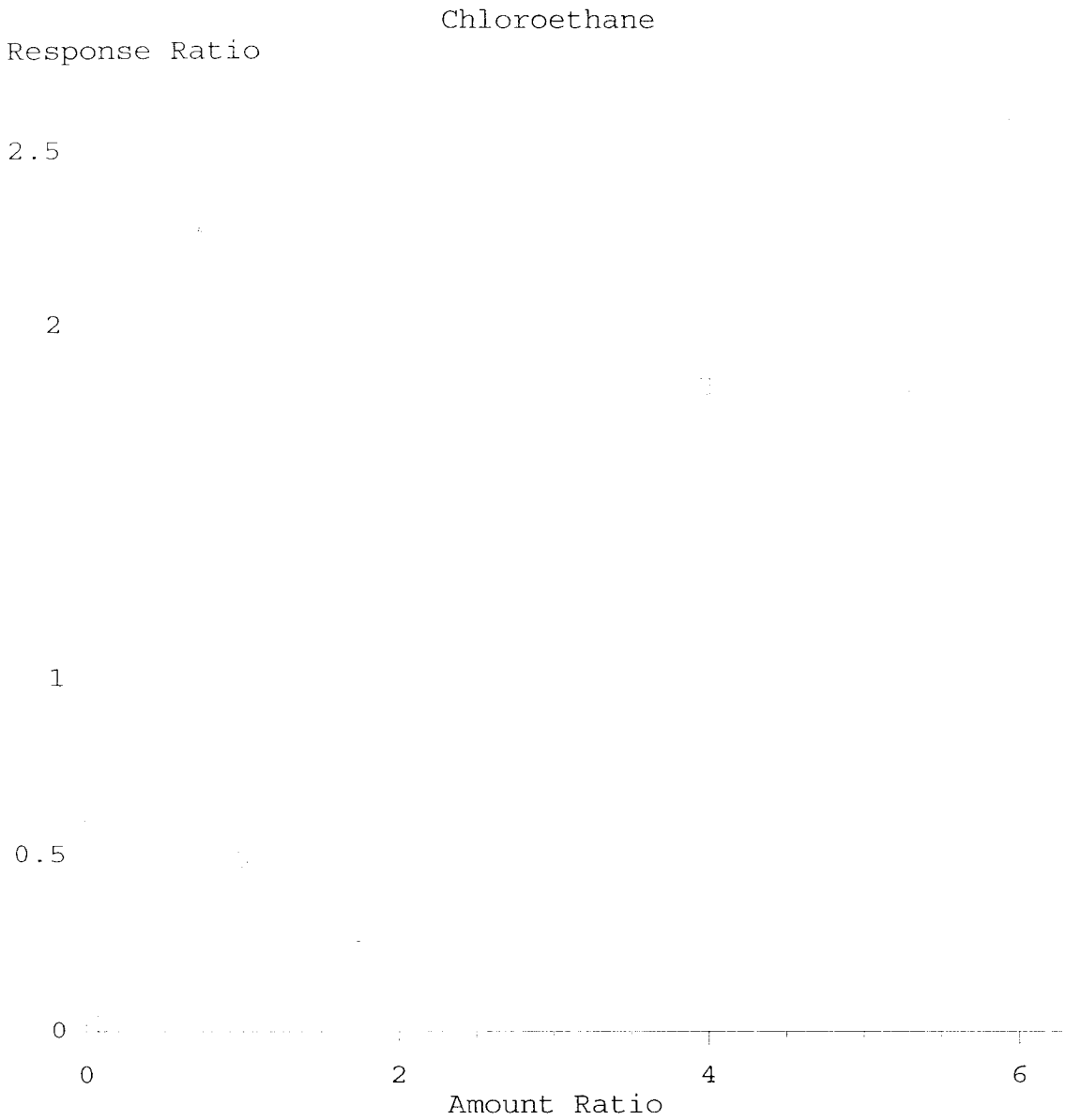
L = Linear LO = Linear+Origin Q = Quad QO = Quad+Origin R = Corr. Coef
(#) = Out of Range ### Number of calibration levels exceeded format ###
TO14S.M Tue Sep 03 16:13:38 2002 Page 2

Dichlorodifluoromethane



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 : 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 Multiplr: 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 Multiplr: 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
		[illegible]hane	250.000	295.718	-18.3#	100	0.00
		[illegible]ofluoromethane	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 : 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

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	348013	11.08	1563580	13.01	1157317	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
Batch MA135 (1) 2 3
IS# 8 -MSW- 34 - 1
BFB 8 -MSW- 34 - 1

Instrument ID : MARILYN
Batch _____ 1 2 3
TO14 8 -MSW- ~~32~~ 37 D #8/6 - 1
8260 -MSW- -

Method : (TO14) /8260AIR /8260WATER /624MOD

AIR-SPK 8 -MSW- 36 - 2
W-SPK -MSW- -

Maint. _____

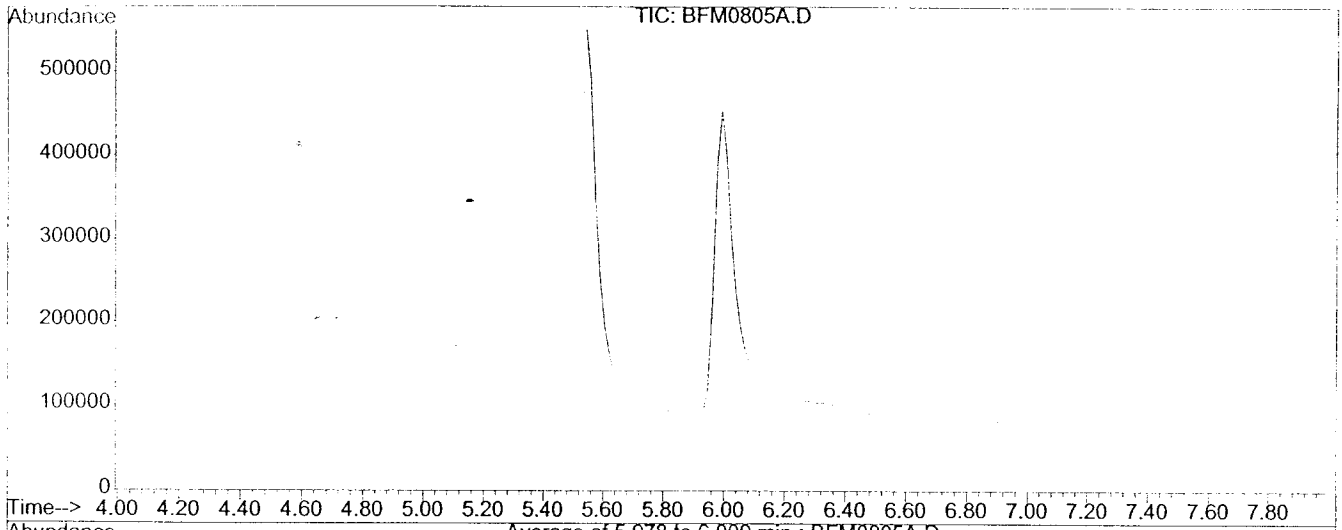
New TO14 Curve

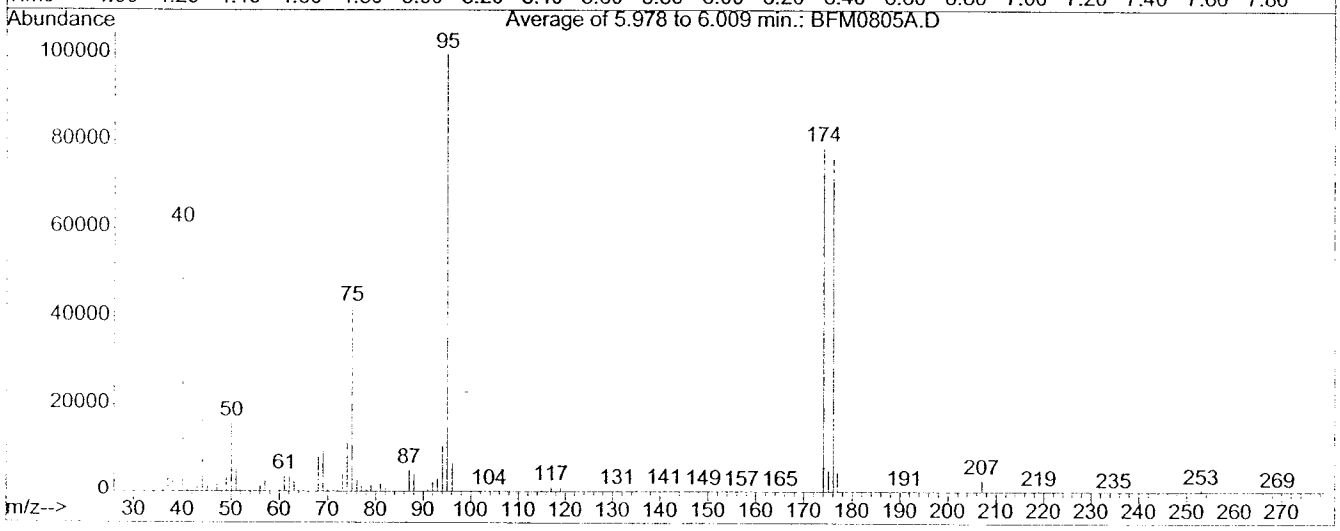
TIME	POS # 1	METH	FILE NAME/ SAMPLE ID	DIL.	RR	PRES	MATRIX	QC PASS**	*INIT	COMMENTS
13:21		BFBSTL	BFM08054	50ppb			W		BDH	Daily 12 hour BFB Tune
14:33	3	To145.m	CMA0250	50ppb			W		BDH	Daily Cal Check / ~~BFB tune~~ BH 8/5 / 250ng ICAL too
13:55	2	To145.m	MA135 A BK	ST						Daily Method Blank
18:17	9		M A135 LCS	50ppb						Batch# 135 LCS
15:11	4		CMA0075	5ppb		Y N				75ng 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		7511-15	X100		Y N	A(TO14)			5mls 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 and 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

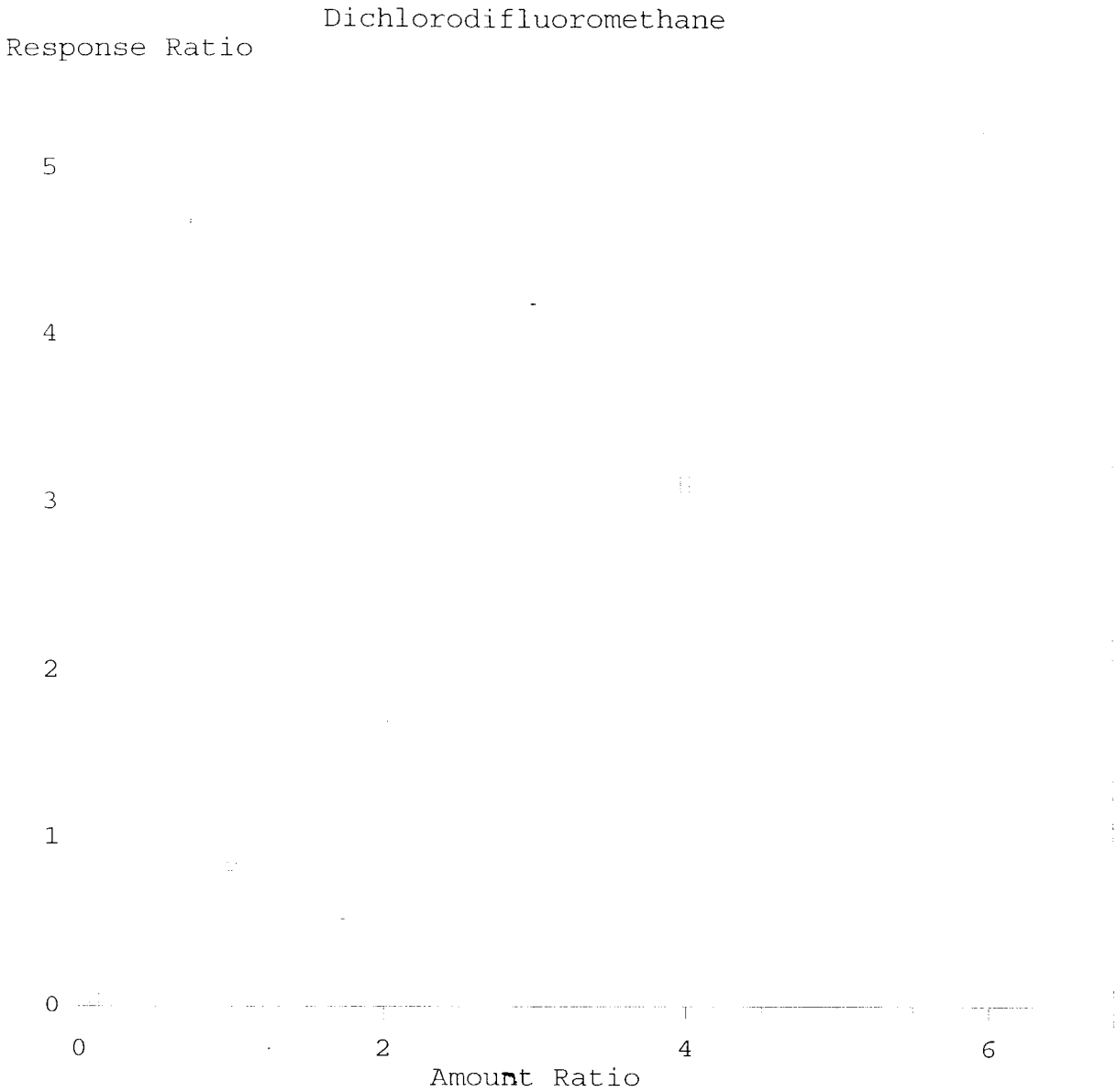
Method : D:\HPCHEM\1\METHODS\MARILYN\CRV080502 TO14\TO14S.M (RTE Inte
Title : TO14
Last Update : Tue Sep 03 16:09:28 2002
Response via : Initial Calibration

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

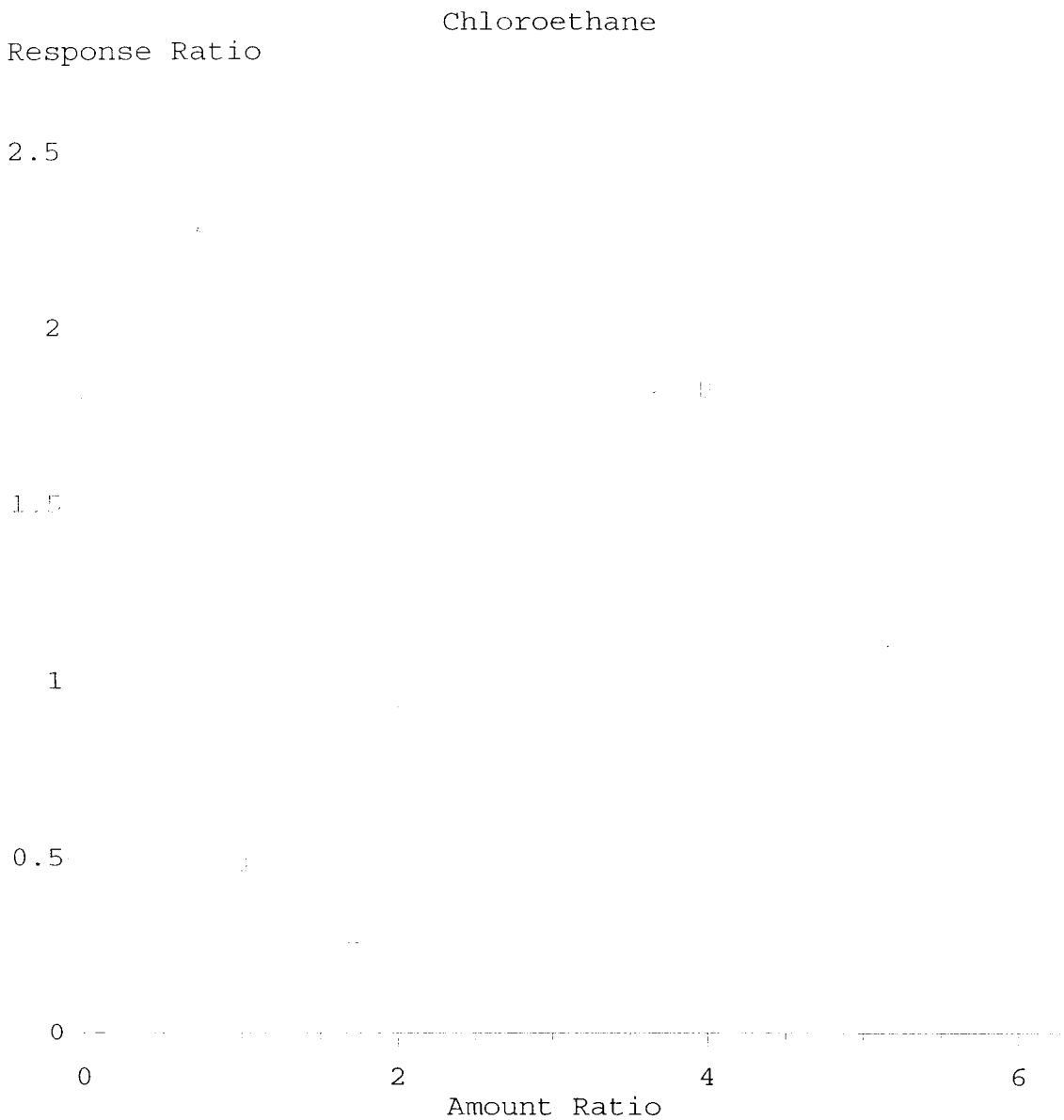
L - Linear LO = Linear+Origin Q = Quad QO = Quad+Origin R = Corr. Coef
(#) - Out of Range ### Number of calibration levels exceeded format ###

Dichlorodifluoromethane



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 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	24.13	ng		92

(#) = 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

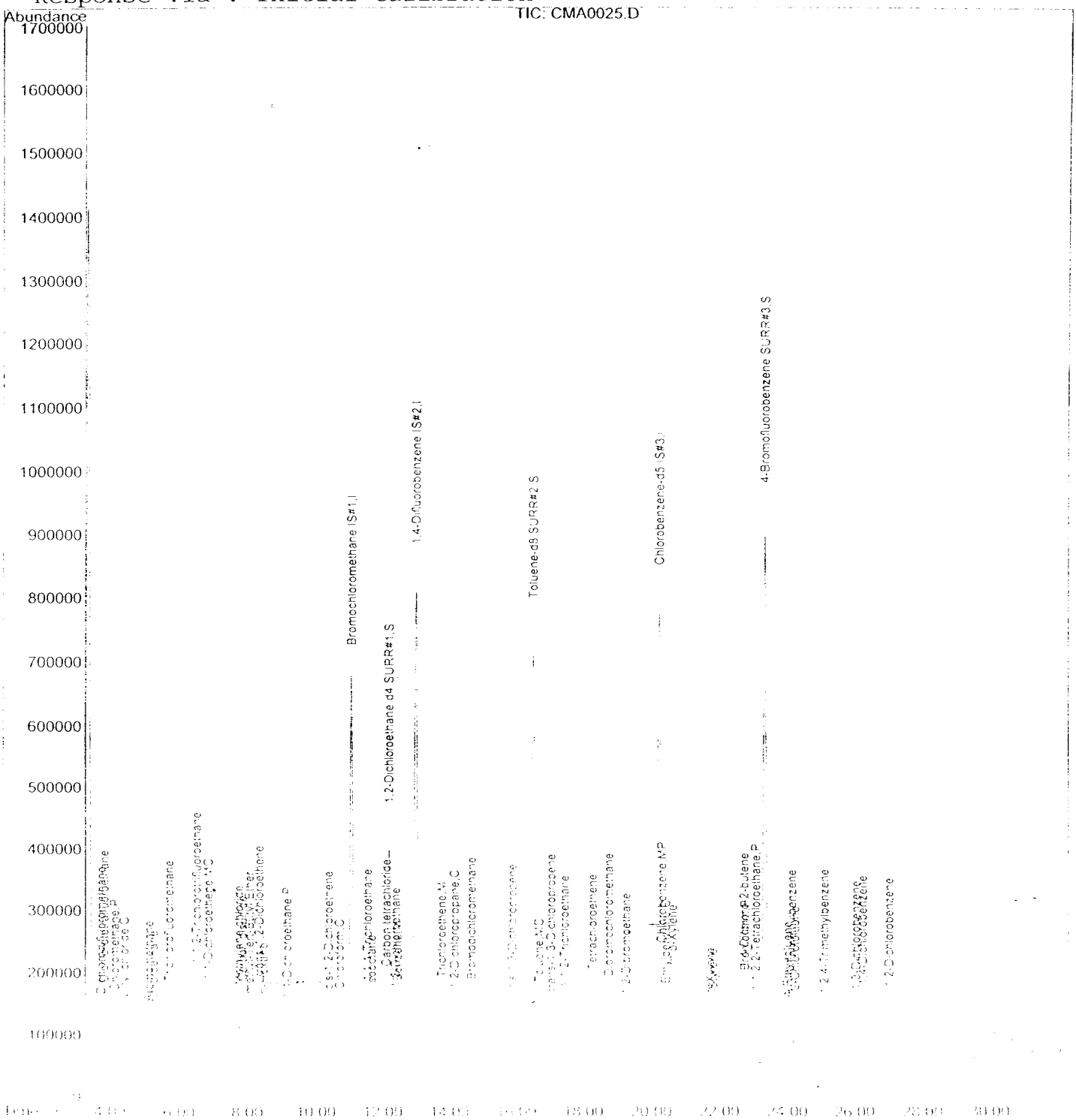
Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Aug 05 15:36:43 2002
Response via : Initial Calibration
DataAcq Meth : TO14S

	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 2

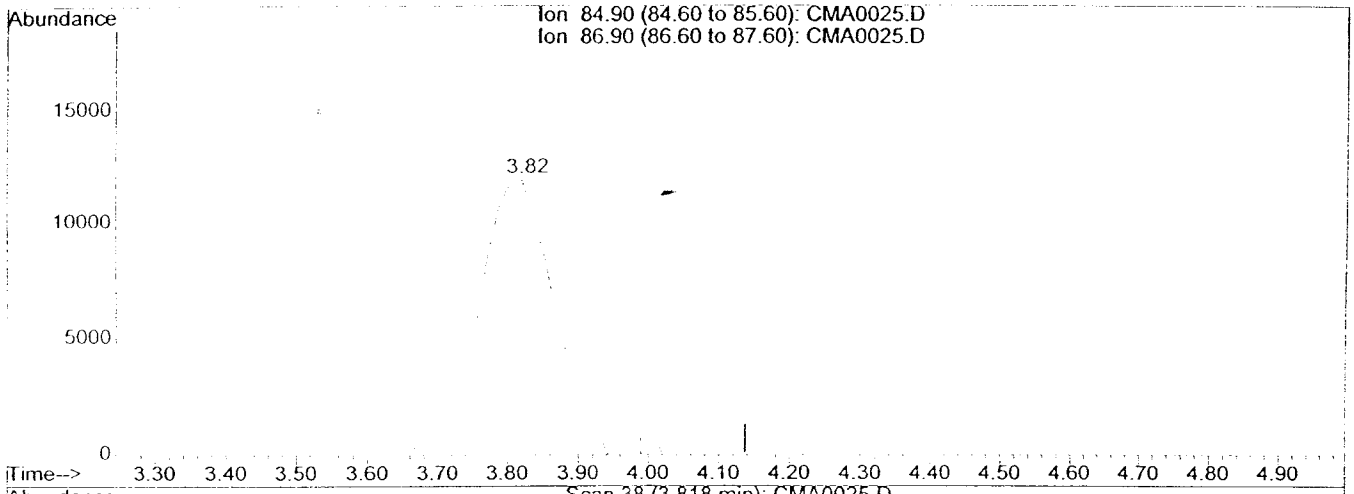
Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0025.D Vial: 4
Acq On : 5 Aug 2002 15:11 Operator: BDH
Sample : 25ng/1uL/5ppb INITIAL CALIB. Inst : MARILYN
Misc : Pi/Pf=1 MA135ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 6 9:08 2002 Quant Results File: TO14S.RES

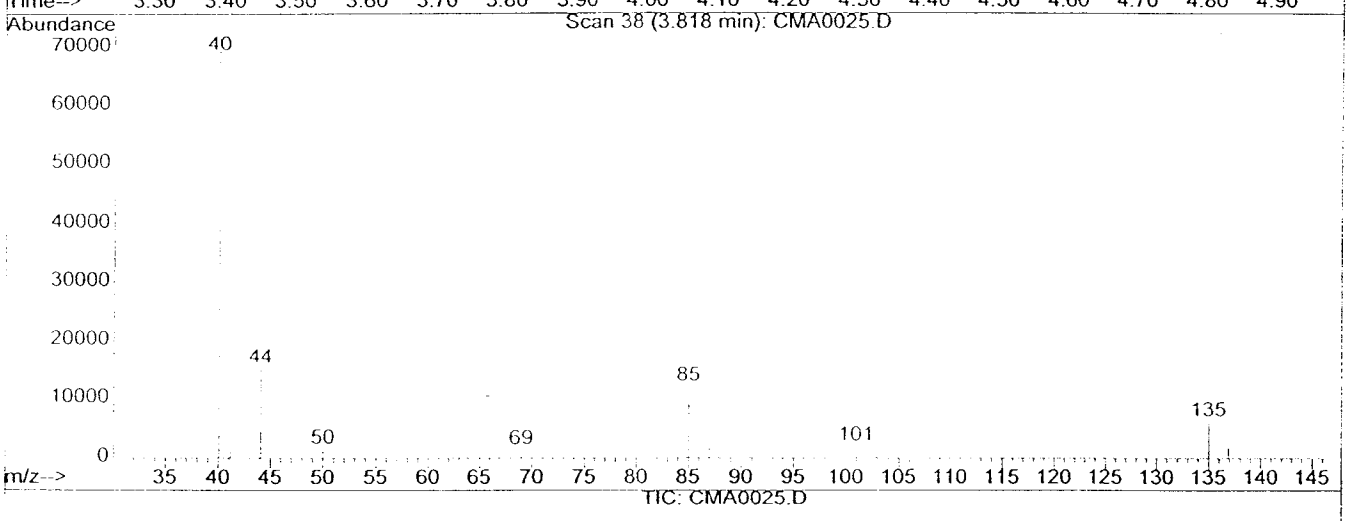
Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Tue Aug 06 09:02:44 2002
Response via : Initial Calibration



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.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

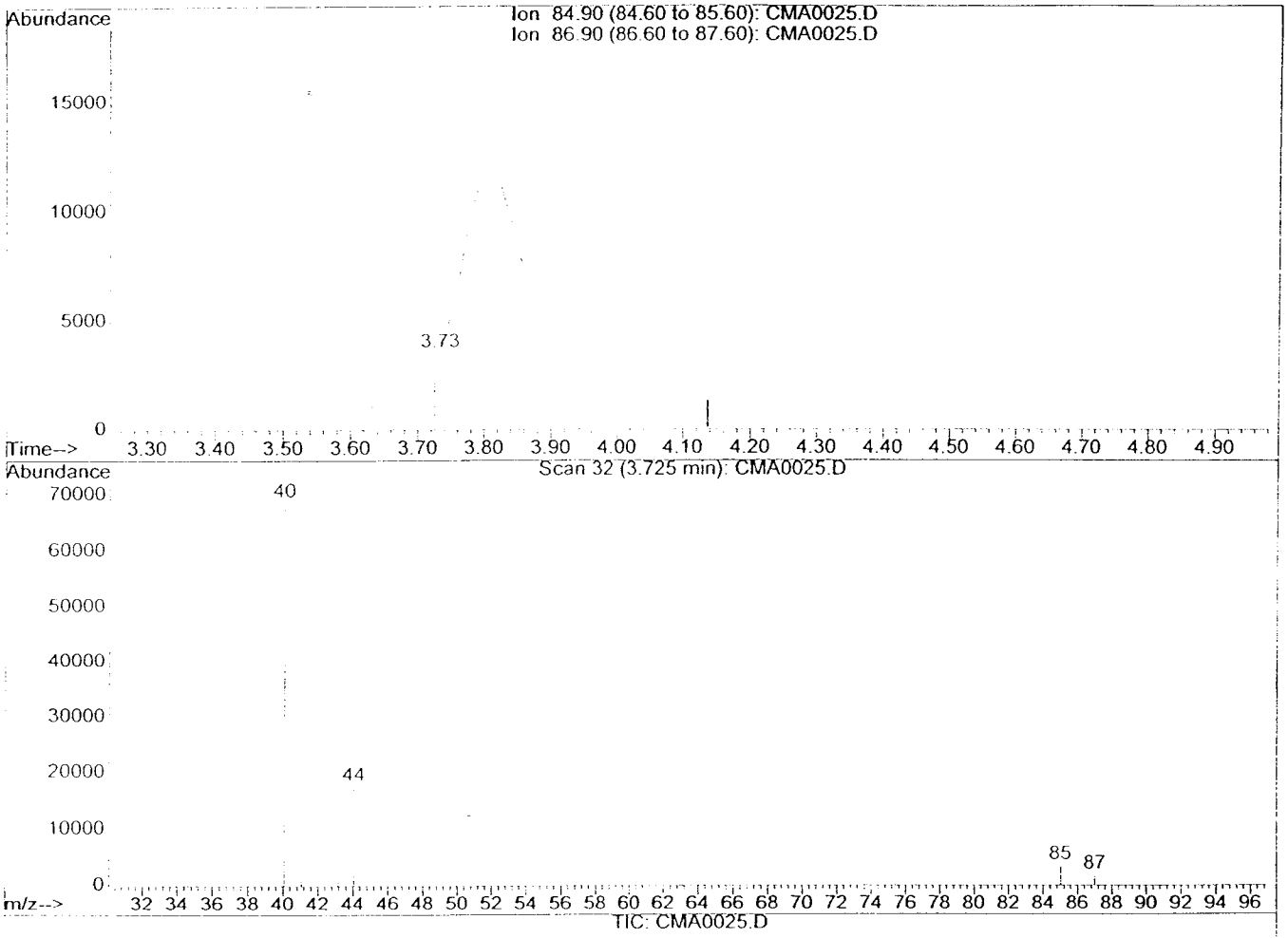
Ion	Exp%	Act%
84.90	100	100
86.90	33.50	29.70
0.00	0.00	0.00
0.00	0.00	0.00

wrong peak

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

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0025.D 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

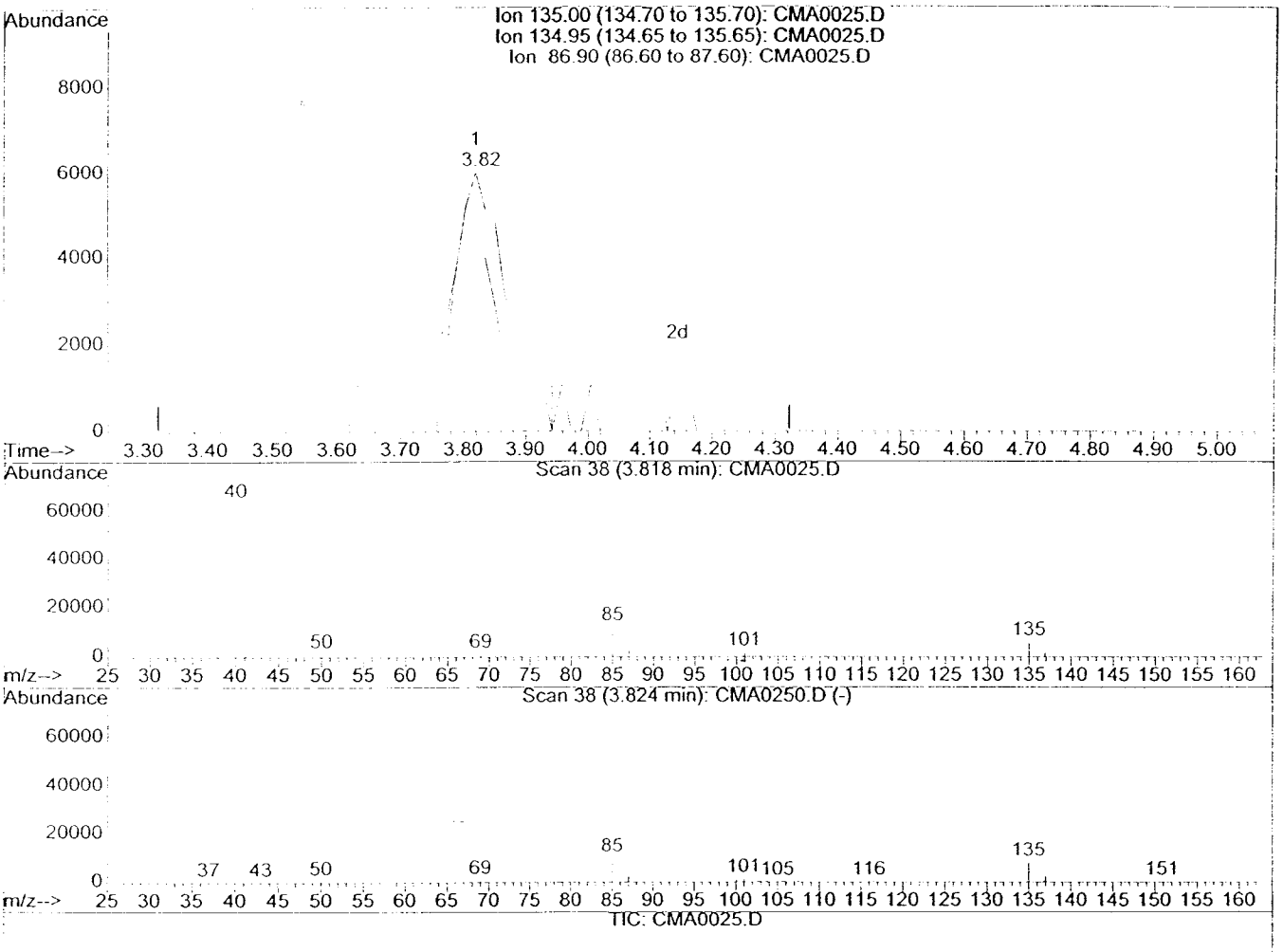
Ion	Exp%	Act%
84.90	100	100
86.90	33.50	149.90#
0.00	0.00	0.00
0.00	0.00	0.00

4-6-02

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.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 18.23ng

response 35714

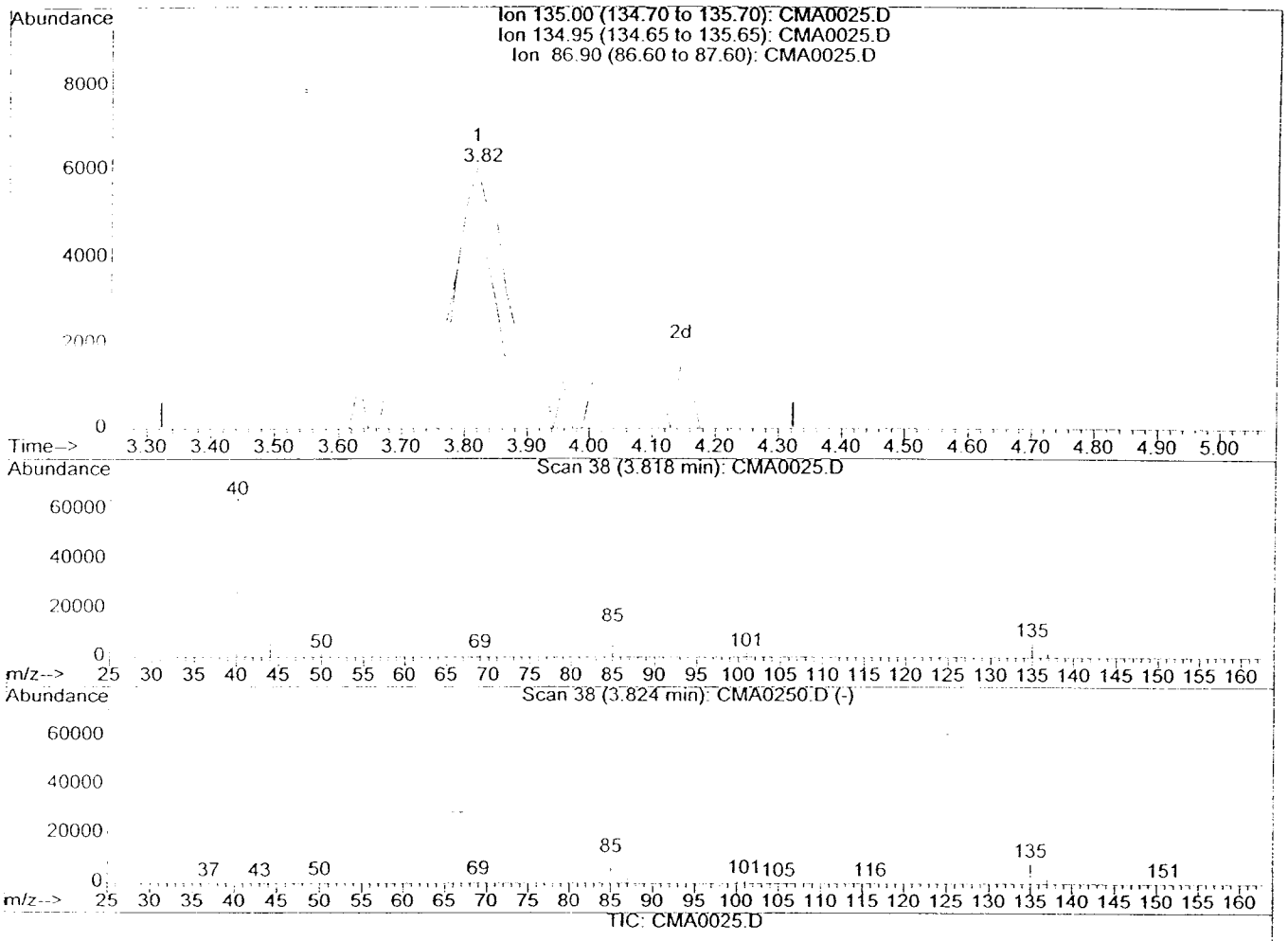
Ion	Exp%	Act%
135.00	100	100
134.95	56.30	100.00#
86.90	32.70	98.74#
0.00	0.00	0.00

Defol failing

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

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0025.D 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

otr
BAH
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		93

(#) = qualifier out of range (m) = manual integration
CMA0025.D TO14S.M Mon Aug 05 15:43:48 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 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
CMA0025.D TO14S.M Mon Aug 05 15:43:48 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

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
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

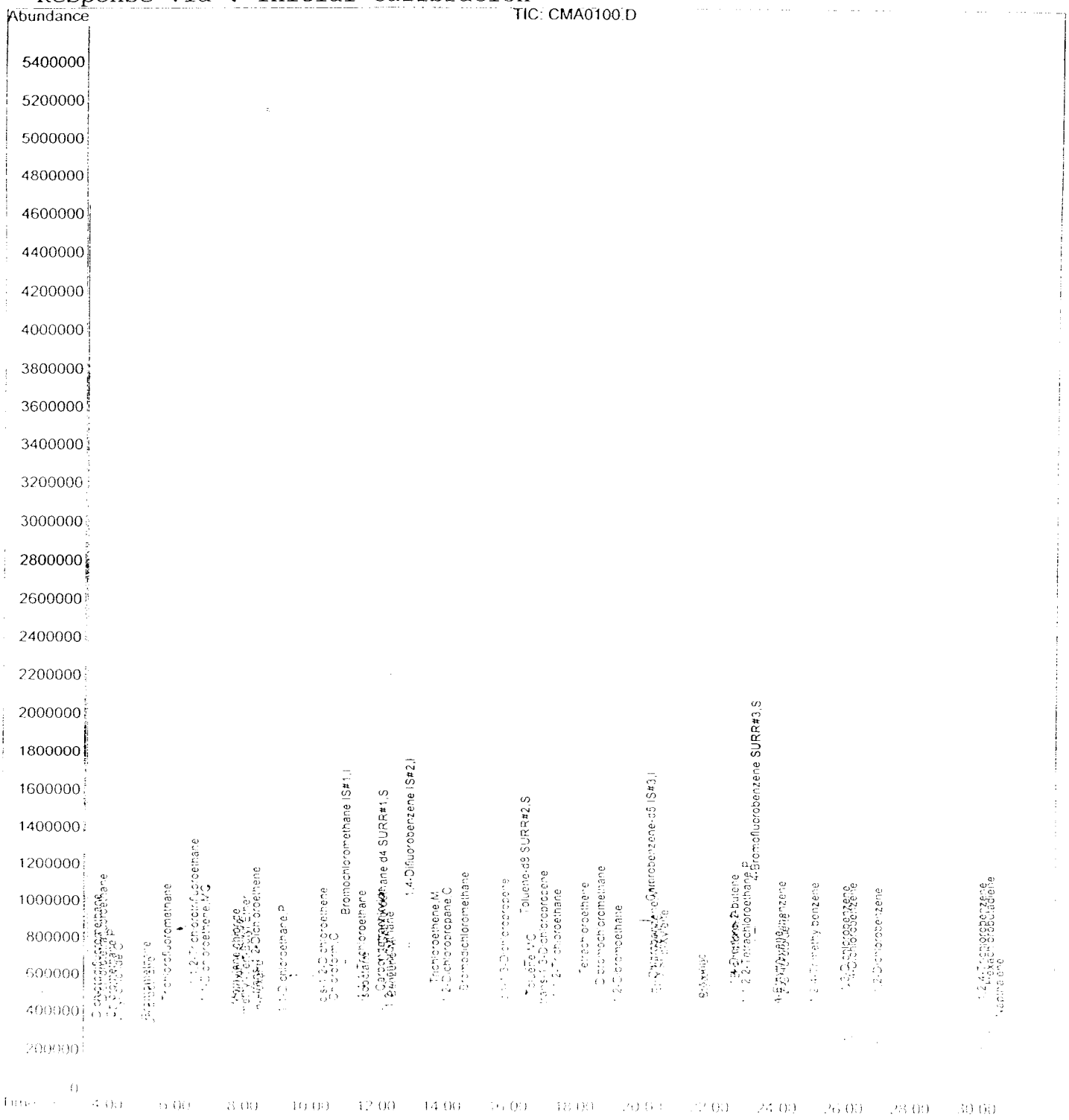
Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Aug 05 15:54:06 2002
Response via : Initial Calibration
DataAcq Meth : TO14S

	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

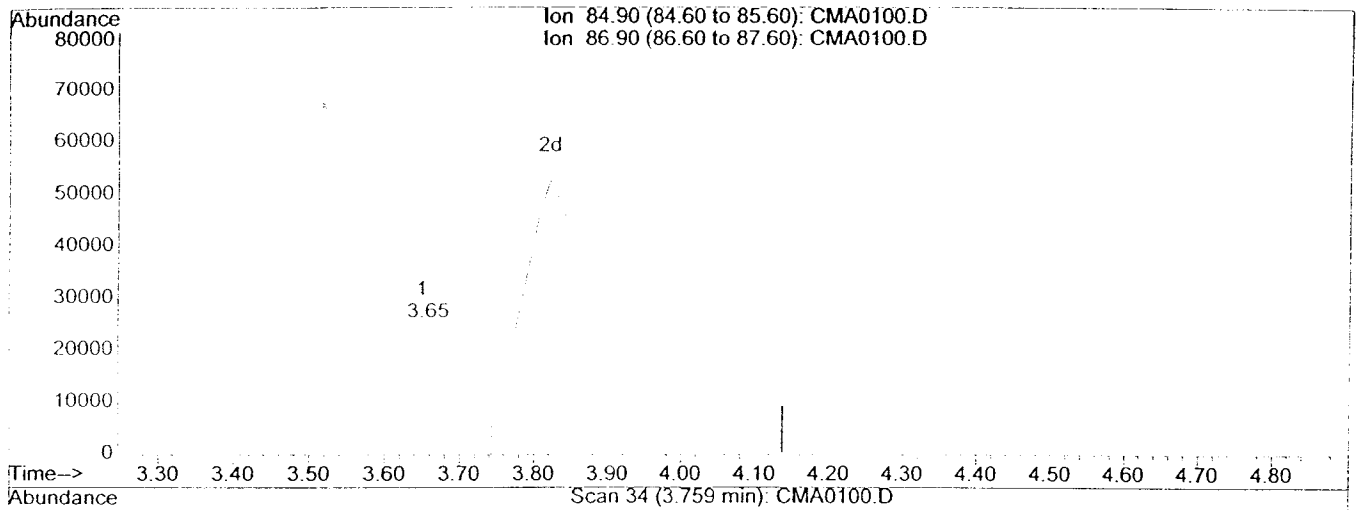
Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0100.D Vial: 5
Acq On : 5 Aug 2002 15:48 Operator: BDH
Sample : 100ng/4uL/20ppb INITIAL CALIB. Inst : MARILYN
Misc : Pi/Pf=1 MA135ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 6 9:10 2002 Quant Results File: TO14S.RES

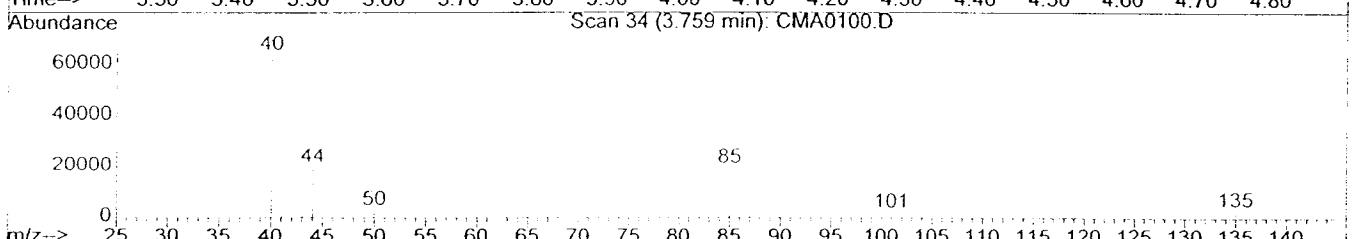
Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Tue Aug 06 09:02:44 2002
Response via : Initial Calibration

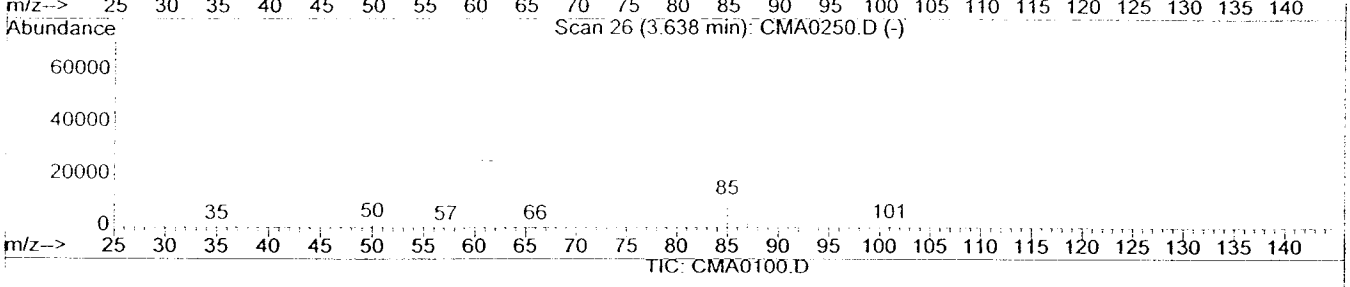


Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0100.D Vial: 5
Acq On : 5 Aug 2002 15:48 Operator: BDH
Sample : 100ng/4uL/20ppb INITIAL CALIB. Inst : MARILYN
Misc : Pi/Pf=1 MA135ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 5 16:25 2002 Quant Results File: temp.res

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







TIC: CMA0100.D

(2) Dichlorodifluoromethane

3.65min 84.55ng

response 183459

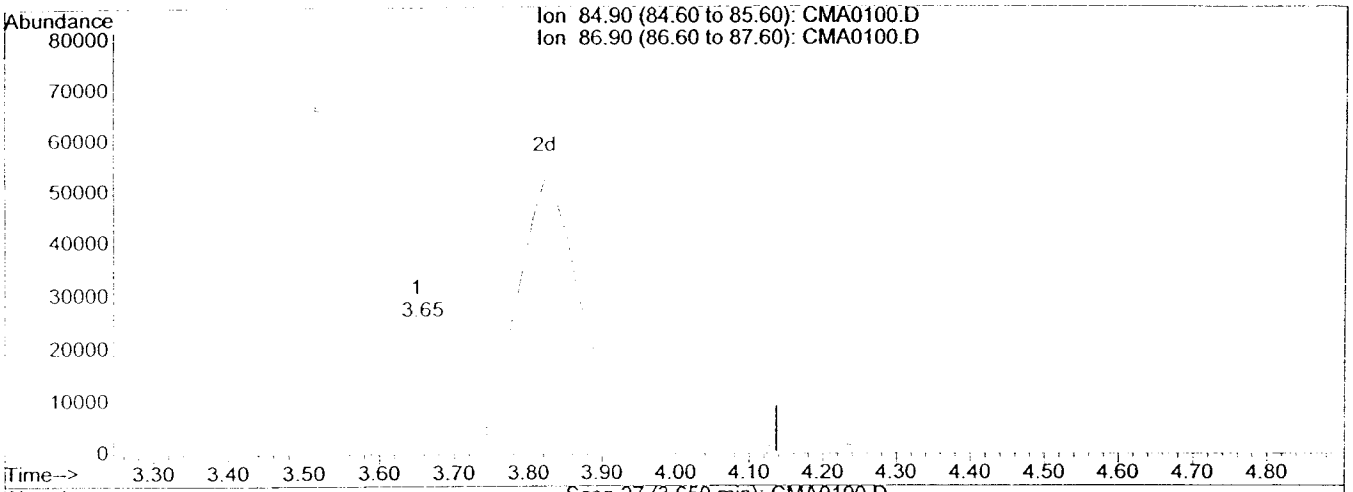
Ion	Exp%	Act%
84.90	100	100
86.90	33.50	32.15
0.00	0.00	0.00
0.00	0.00	0.00

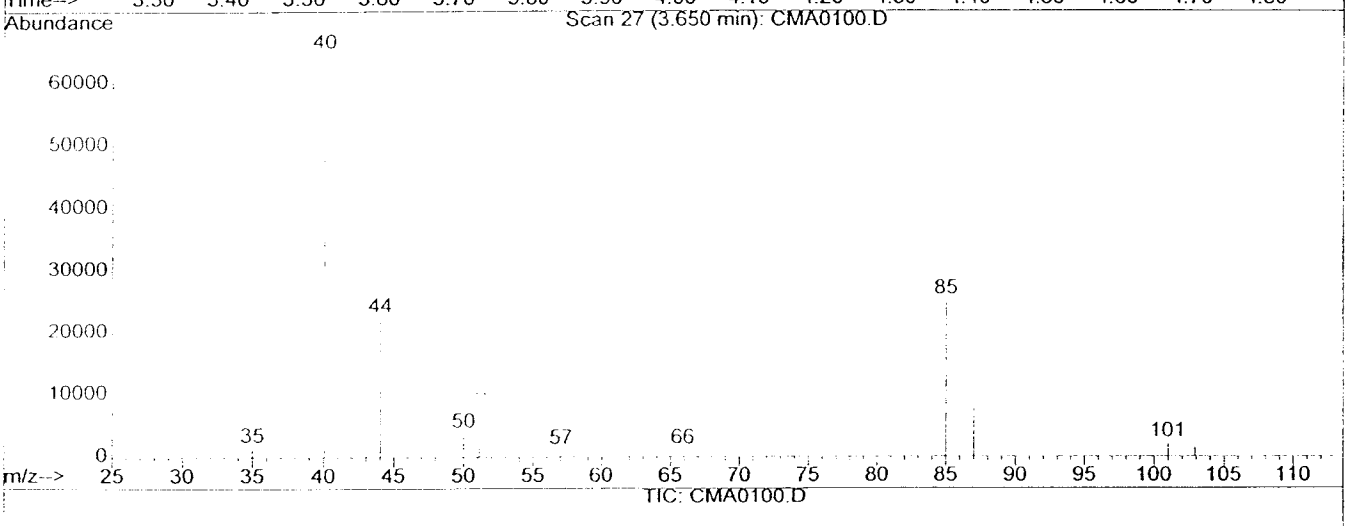
before (tailing)

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.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

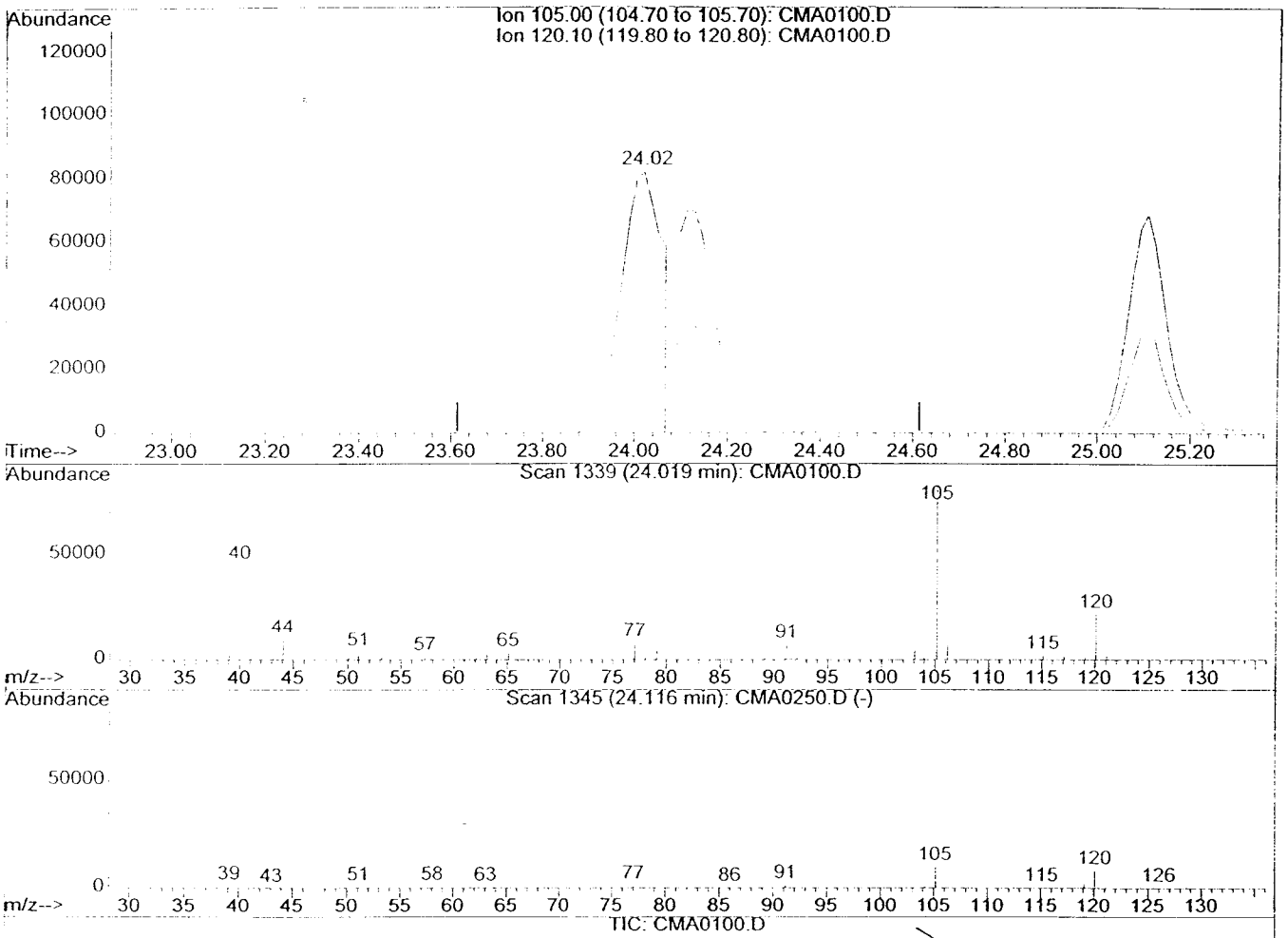
Ion	Exp%	Act%
84.90	100	100
86.90	33.50	32.15
0.00	0.00	0.00
0.00	0.00	0.00

Kept
TD 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



(49) 1,3,5-Trimethylbenzene

24.02min 100.71ng

response 493499

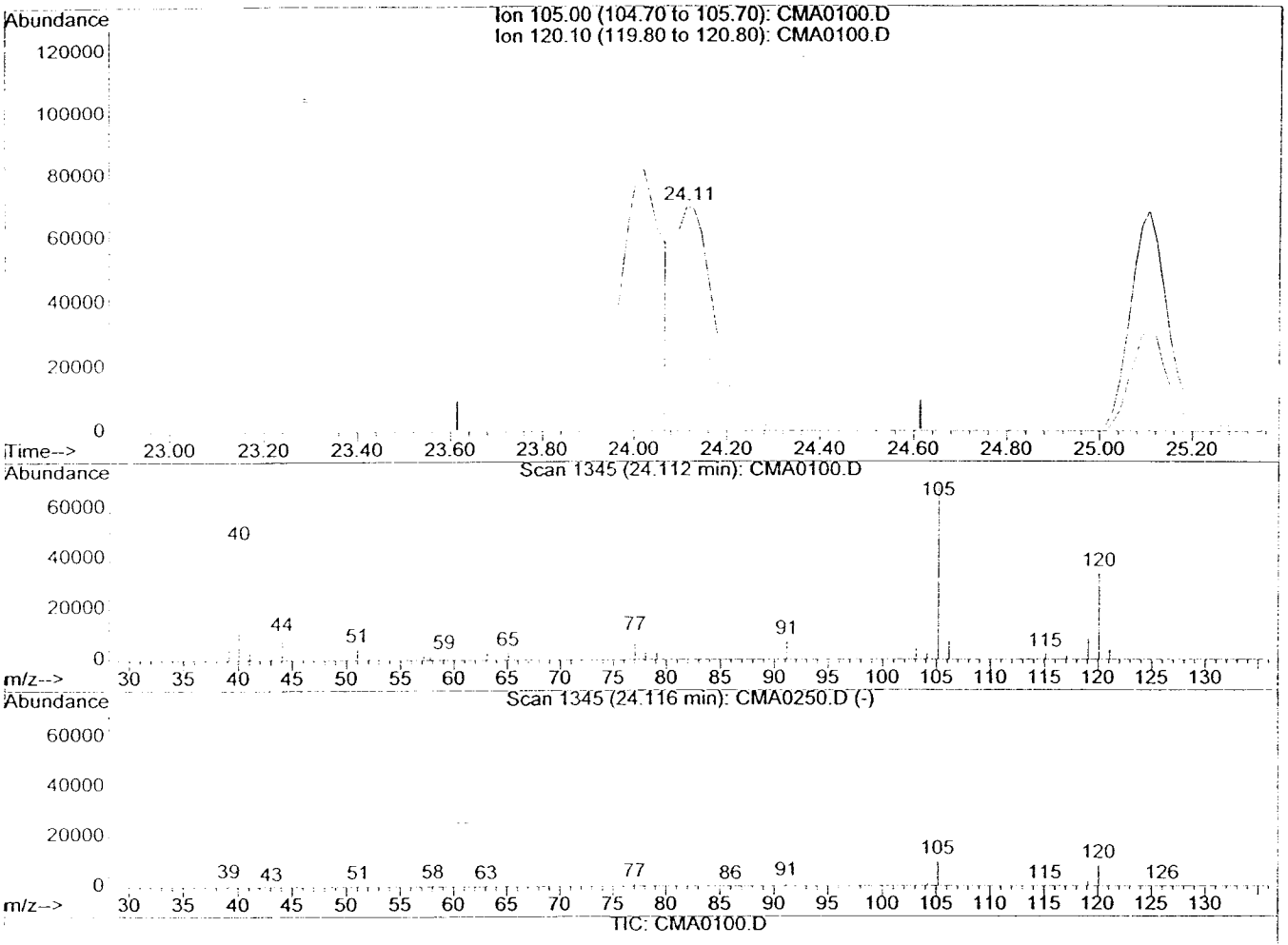
Ion	Exp%	Act%
105.00	100	100
120.10	46.70	20.79#
0.00	0.00	0.00
0.00	0.00	0.00

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.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

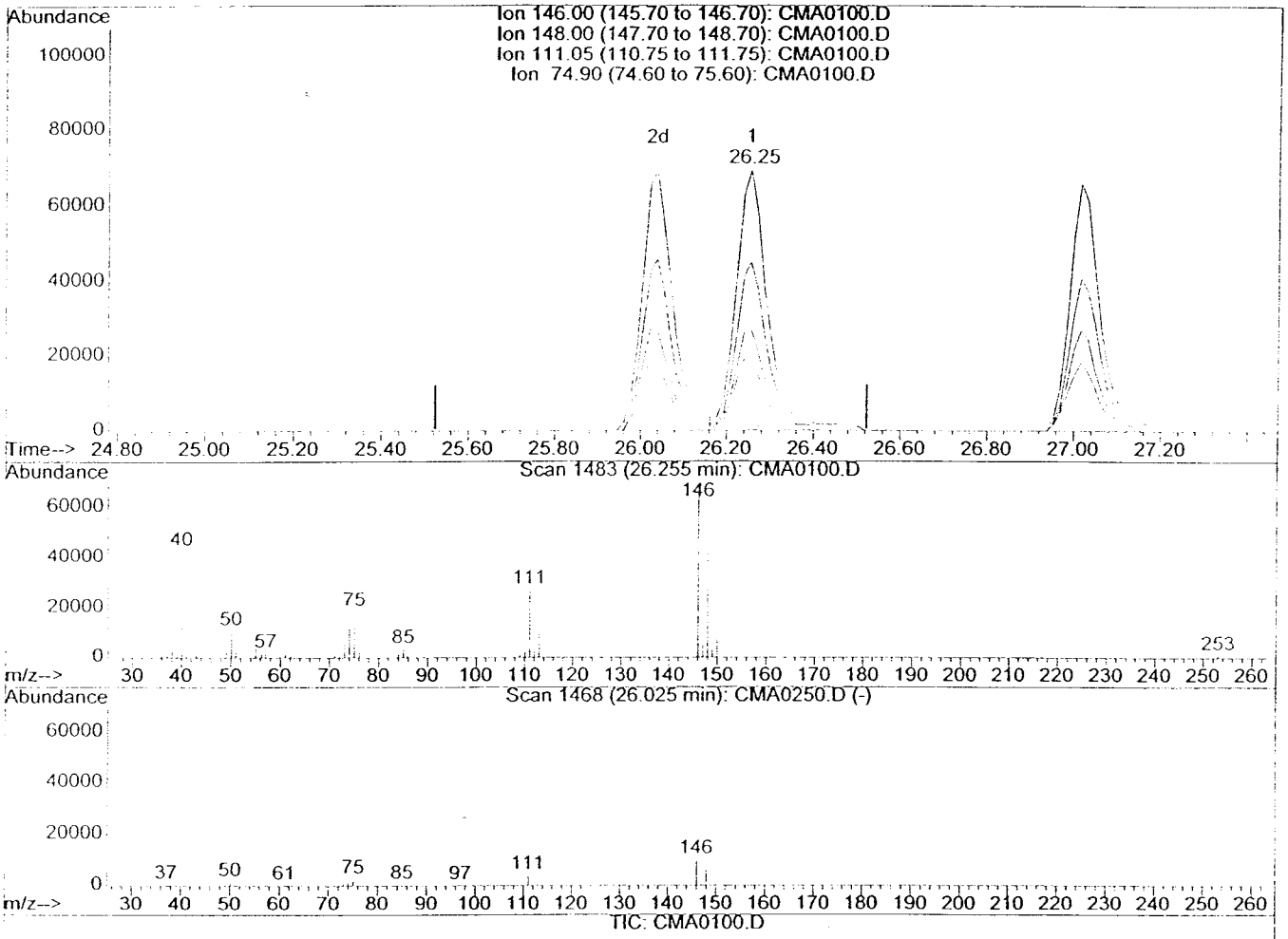
Ion	Exp%	Act%
105.00	100	100
120.10	46.70	23.69#
0.00	0.00	0.00
0.00	0.00	0.00

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

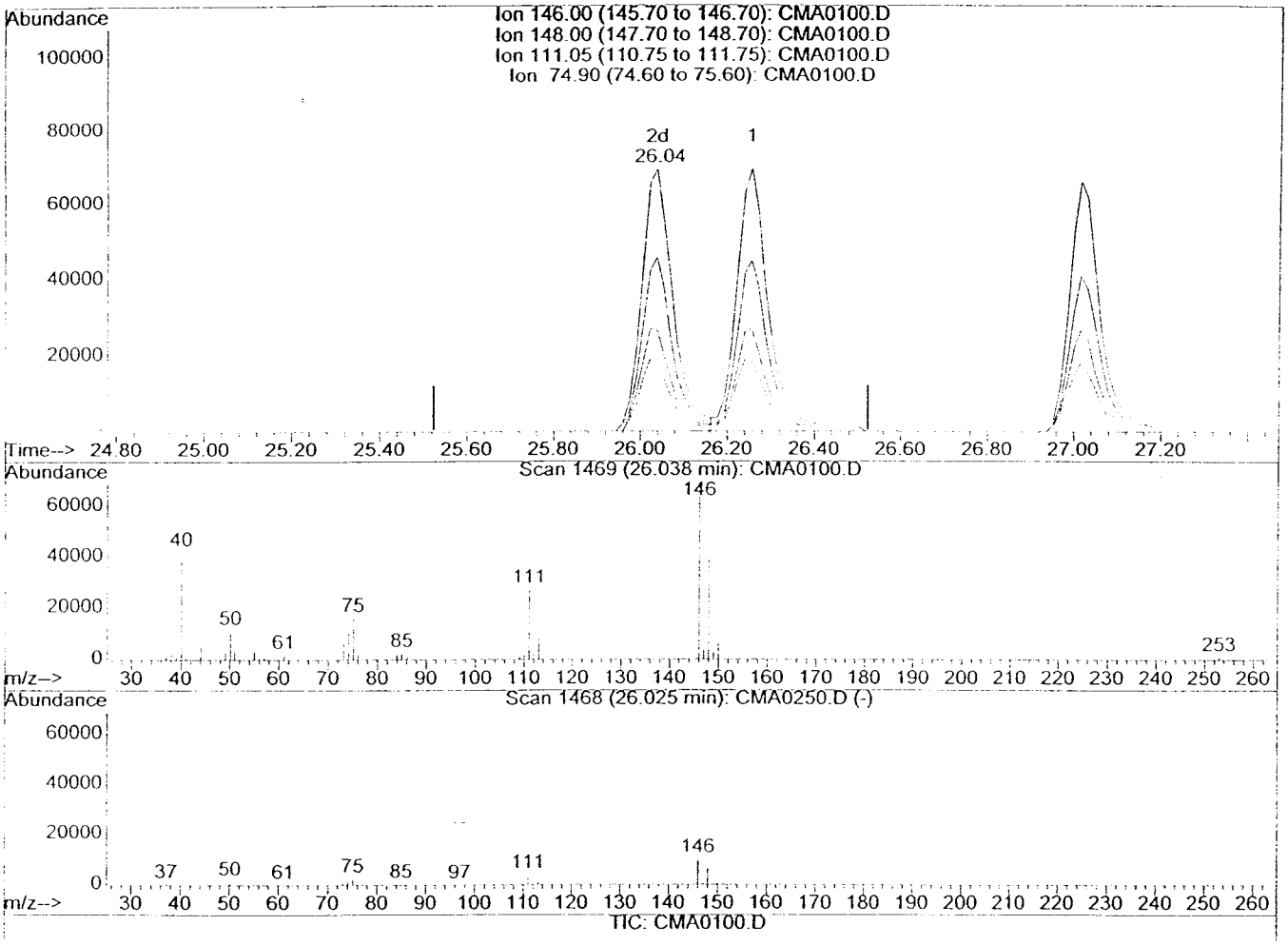
Ion	Exp%	Act%
146.00	100	100
148.00	66.40	65.74
111.05	44.40	40.91
74.90	35.60	29.02

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.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
BA
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

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		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
[illegible]obenzene	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
CMA0100.D TO14S.M Mon Aug 05 16:21:12 2002 Page 2

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	13.26	107	1151963	272.93 ng		98
27) Benzene	13.44	78	1576639	283.83 ng		97

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

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

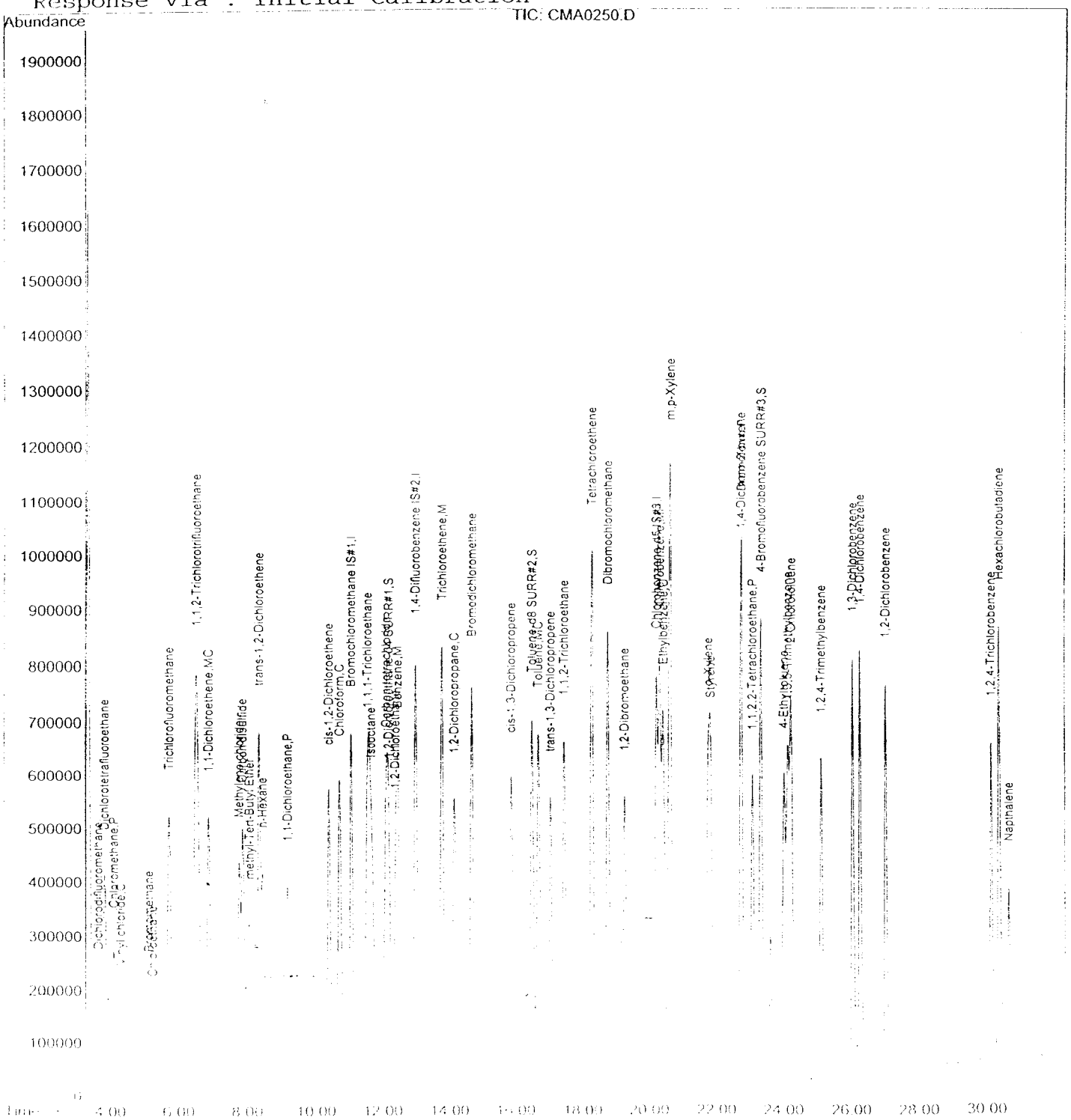
Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Jul 22 10:42:36 2002
Response via : Initial Calibration
DataAcq Meth : TO14S

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
28)	Trichloroethene	13.76	130	902272	264.90 ng		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
[illegible]	[illegible]chloroethene	18.26	164	838662	270.12 ng		91
[illegible]	[illegible]ochloromethane	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
CMA0250.D TO14S.M Tue Aug 06 09:14:01 2002 Page 2

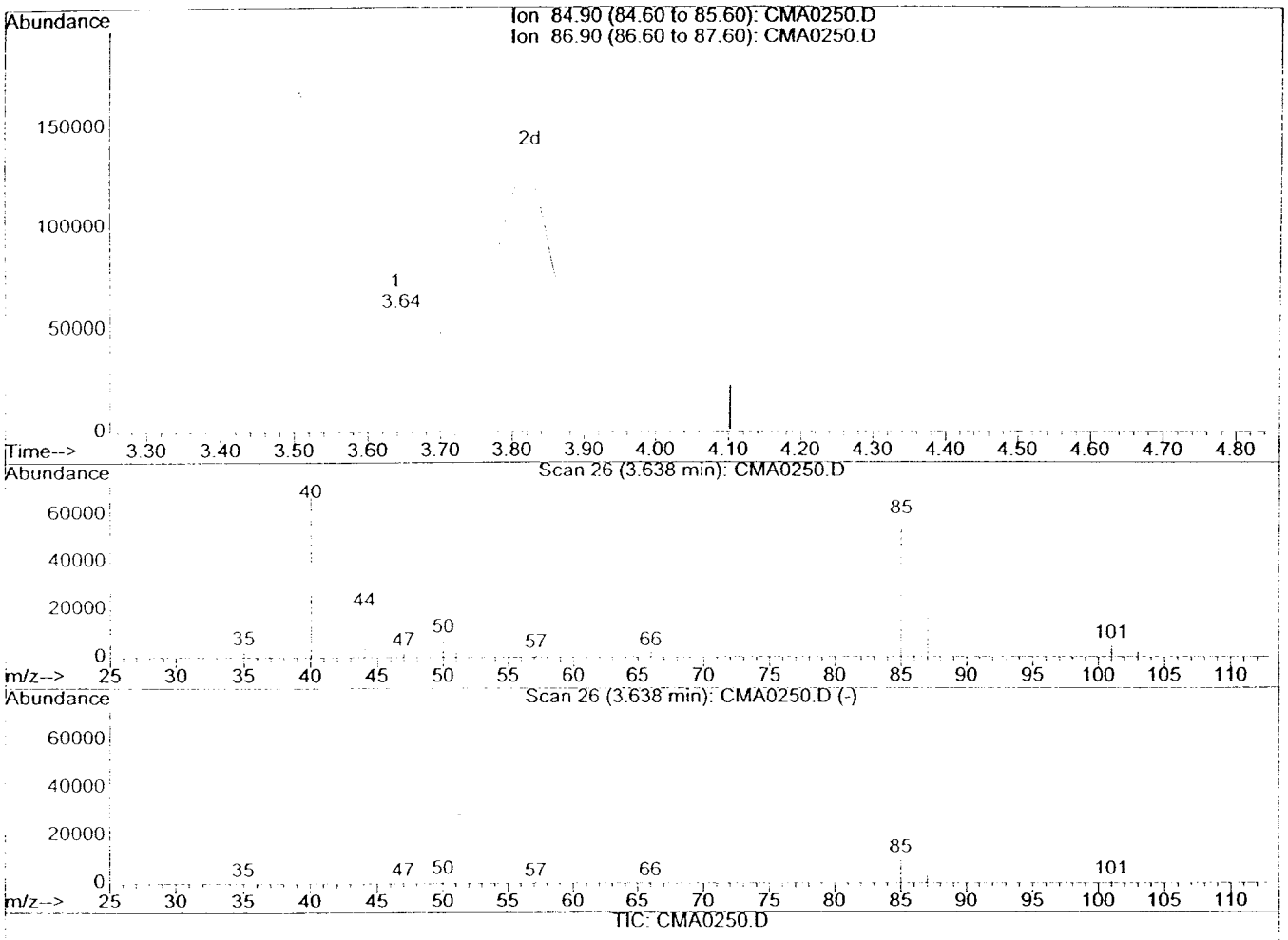
Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0250.D Vial: 3
Acq On : 5 Aug 2002 14:33 Operator: BDH
Sample : 250ng/10uL/50ppb INITIAL CALIB. Inst : MARILYN
Misc : Pi/Pf=1 MA135ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 6 9:13 2002 Quant Results File: TO14S.RES

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



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 : Tue Aug 06 08:35:03 2002
Response via : Multiple Level Calibration



(2) Dichlorodifluoromethane

3.64min 198.33ng

response 341345

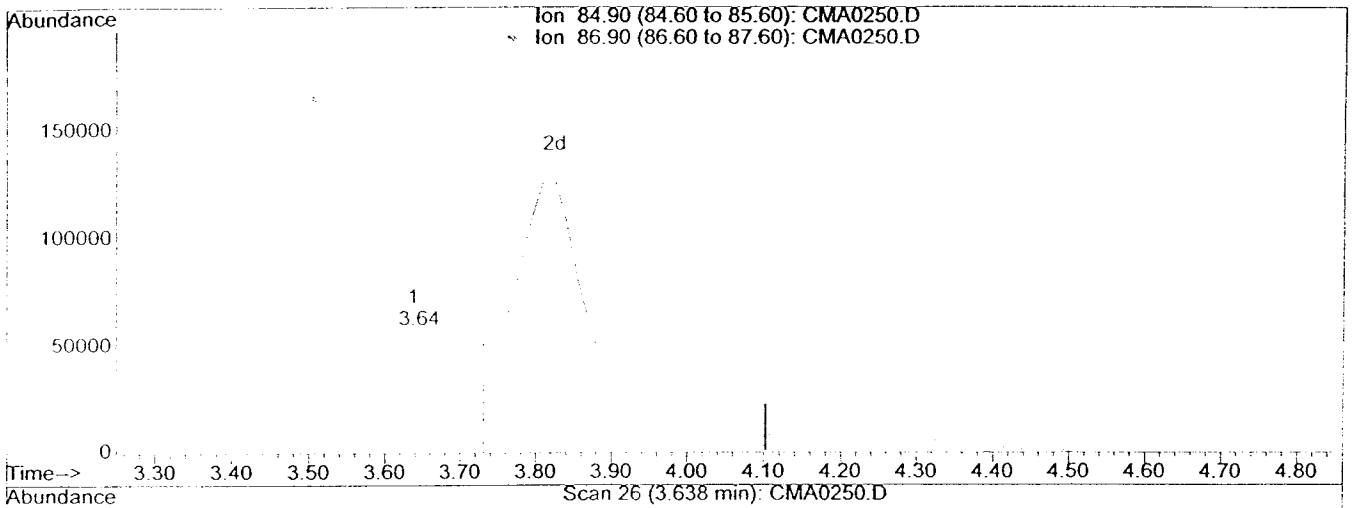
Ion	Exp%	Act%
84.90	100	100
86.90	33.50	33.22
0.00	0.00	0.00
0.00	0.00	0.00

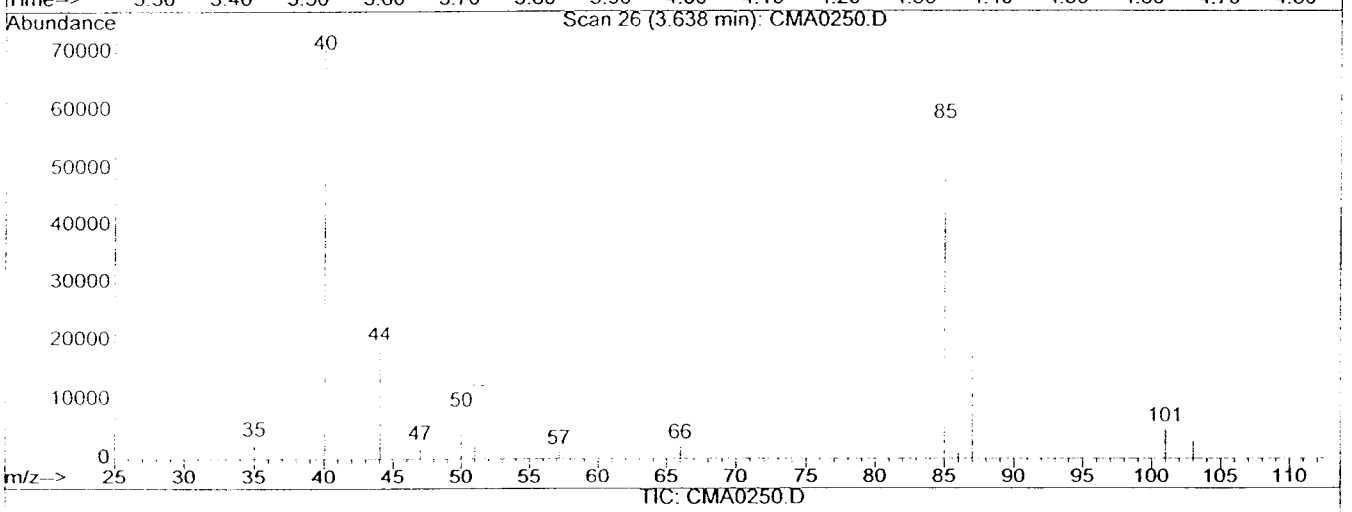
before (tailing)

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

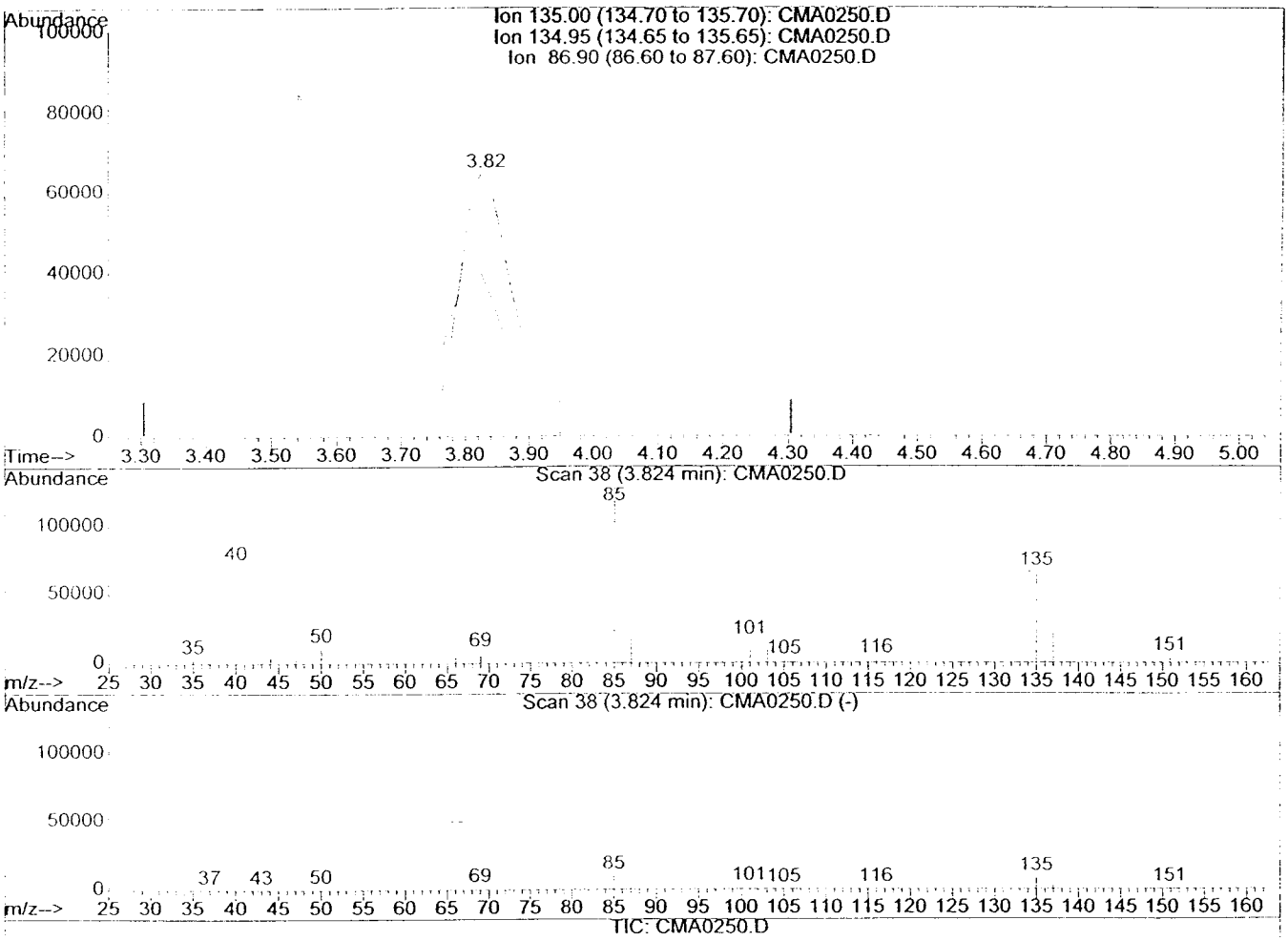
Ion	Exp%	Act%
84.90	100	100
86.90	33.50	26.07#
0.00	0.00	0.00
0.00	0.00	0.00

6-6-02

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.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 208.29ng

response 413691

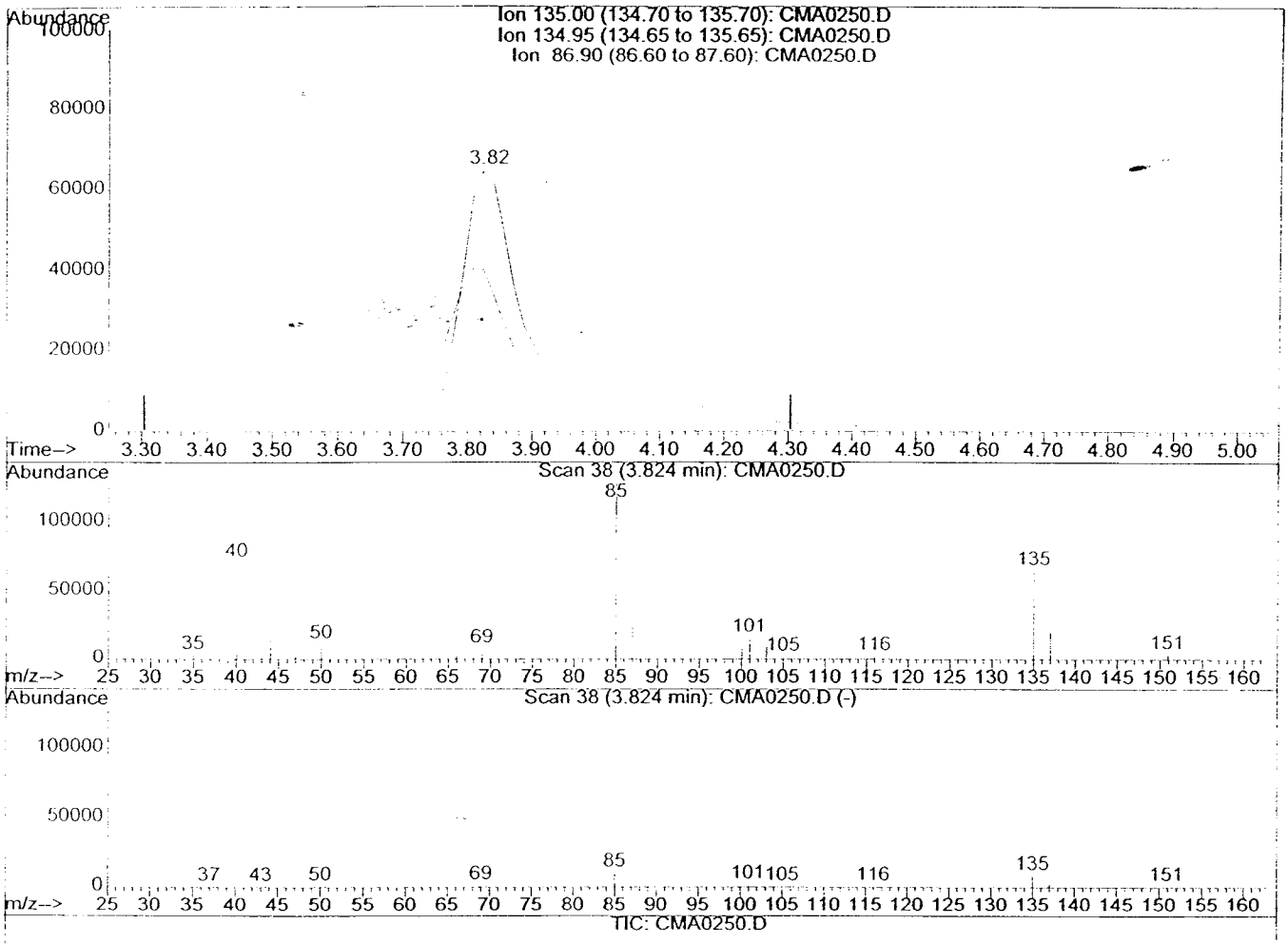
Ion	Exp%	Act%
135.00	100	100
134.95	56.30	100.00#
86.90	32.70	52.61#
0.00	0.00	0.00

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

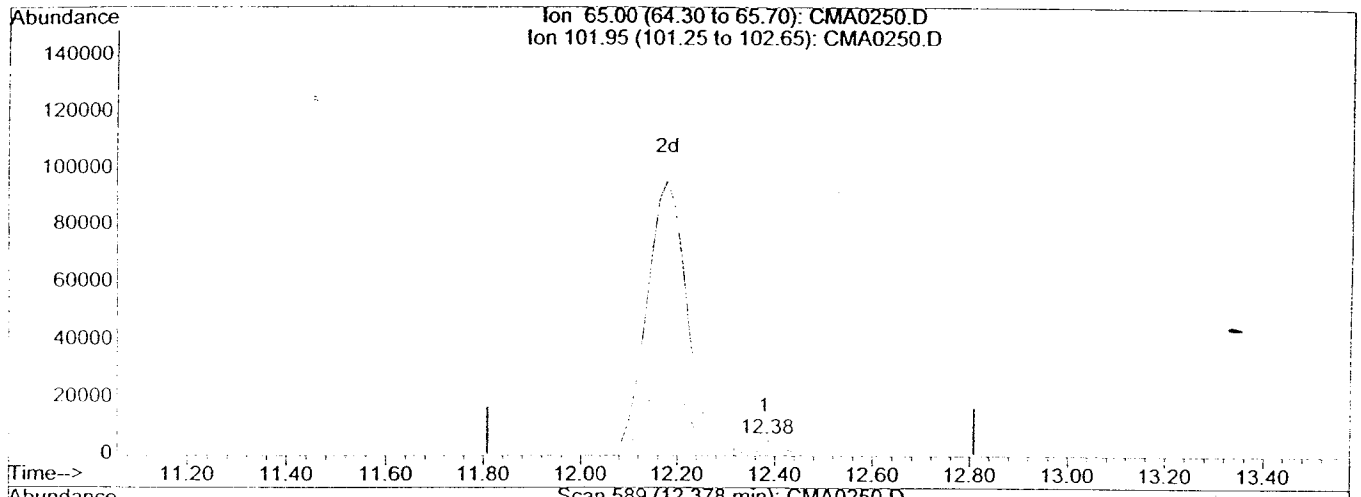
Ion	Exp%	Act%
135.00	100	100
134.95	56.30	60.23
86.90	32.70	31.69
0.00	0.00	0.00

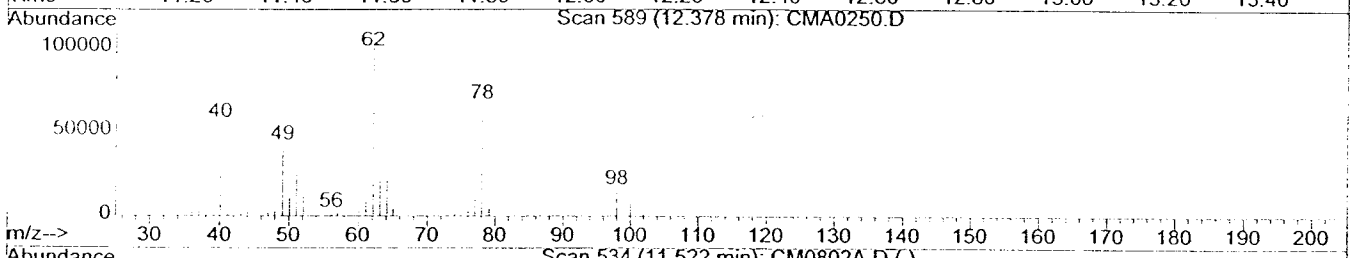
after BDH 8-6-02

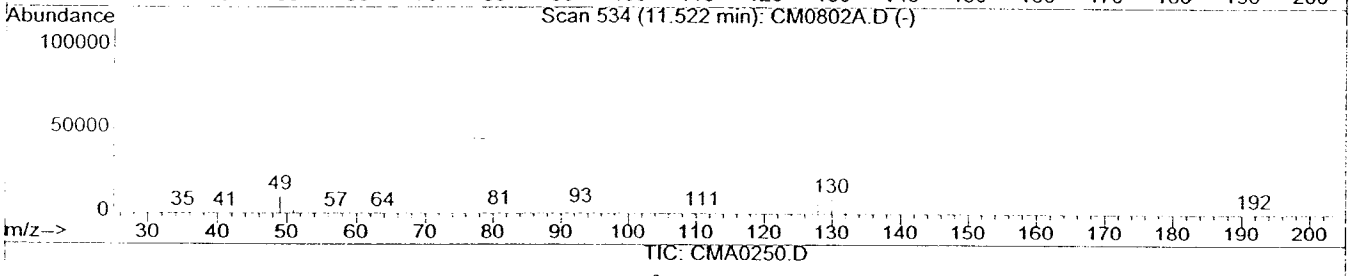
CMA0250.D TO14S.M Tue Aug 06 08:50:06 2002

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 : MARILYN
Misc : Pi/Pf=1 MA135ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 5 15:05 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







TIC: CMA0250.D

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

12.38min 13.50ng

response 29116

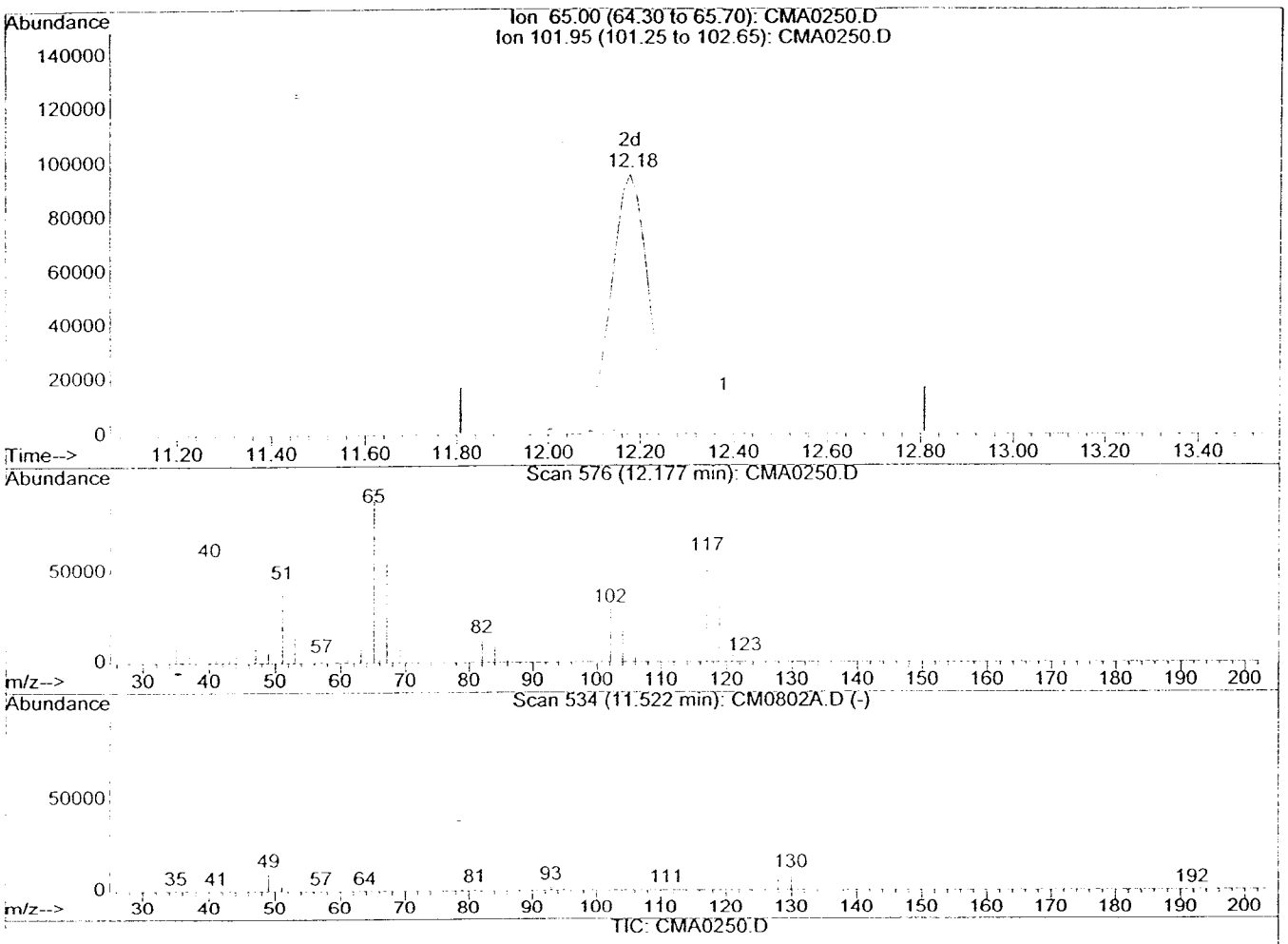
Ion	Exp%	Act%
65.00	100	100
101.95	22.40	30.92#
0.00	0.00	0.00
0.00	0.00	0.00

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

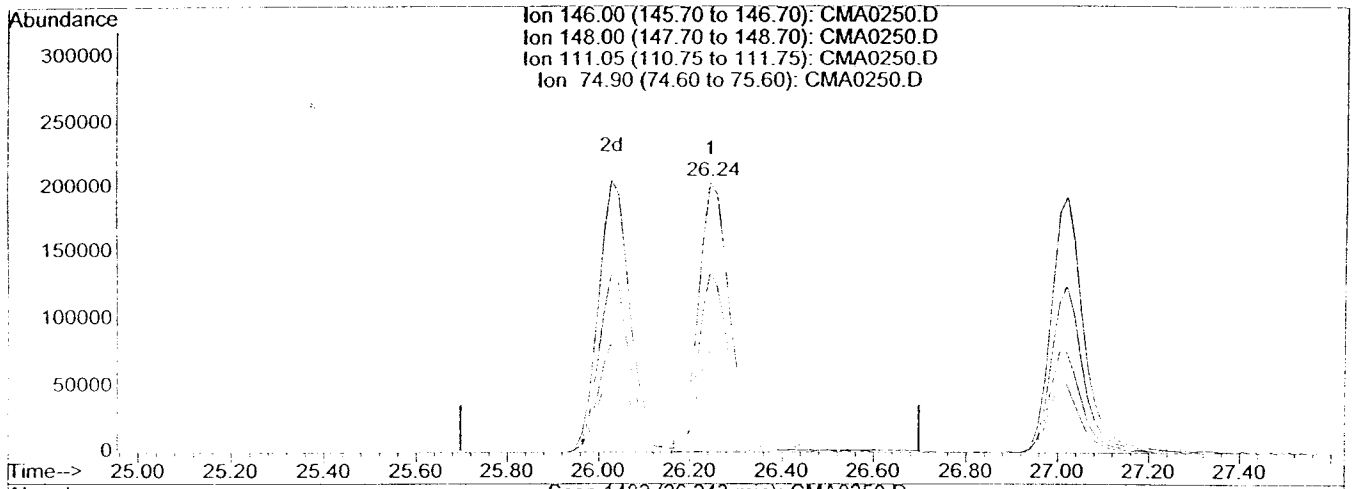
Ion	Exp%	Act%
65.00	100	100
101.95	22.40	1.62#
0.00	0.00	0.00
0.00	0.00	0.00

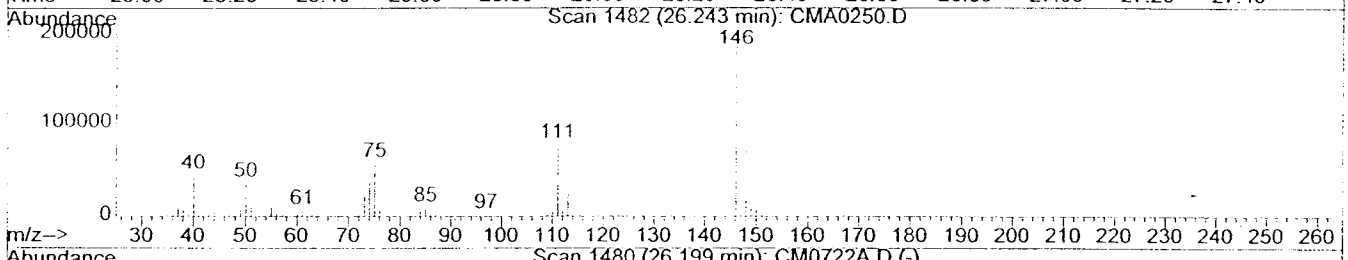
8/5/02

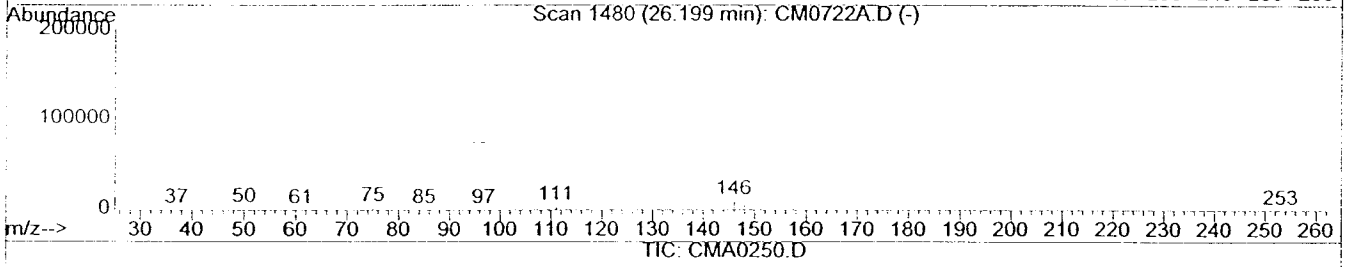
CMA0250.D 8260W50.M Mon Aug 05 15:32:25 2002

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.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

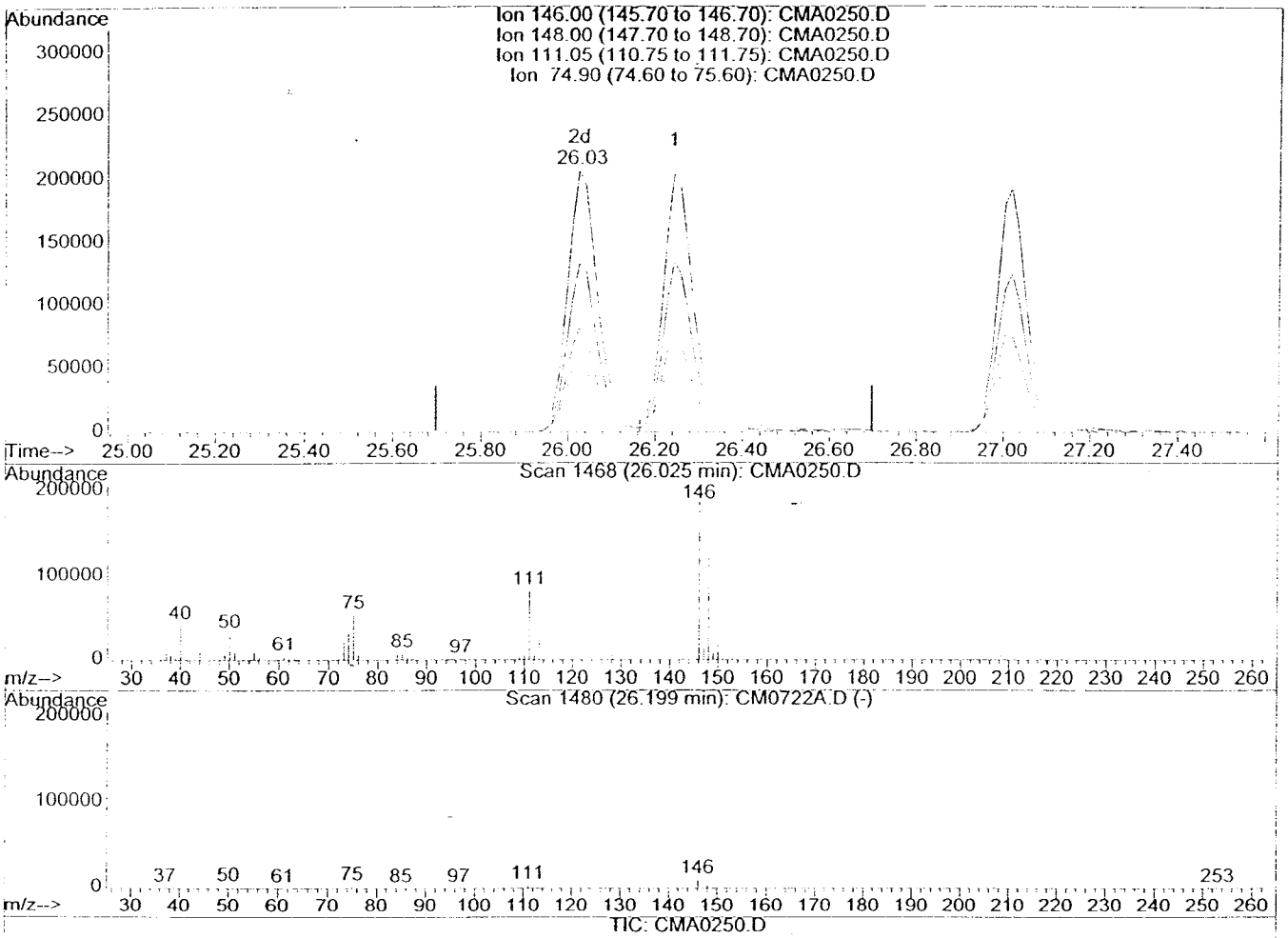
Ion	Exp%	Act%
146.00	100	100
148.00	66.40	65.97
111.05	44.40	37.34
74.90	35.60	28.29#

before
(wrong peak)

CMA0250.D TO14S.M Mon Aug 05 15:33:45 2002

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0250.D 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



(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 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
CMA0250.D TO14S.M Mon Aug 05 15:05:29 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.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	12.27	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

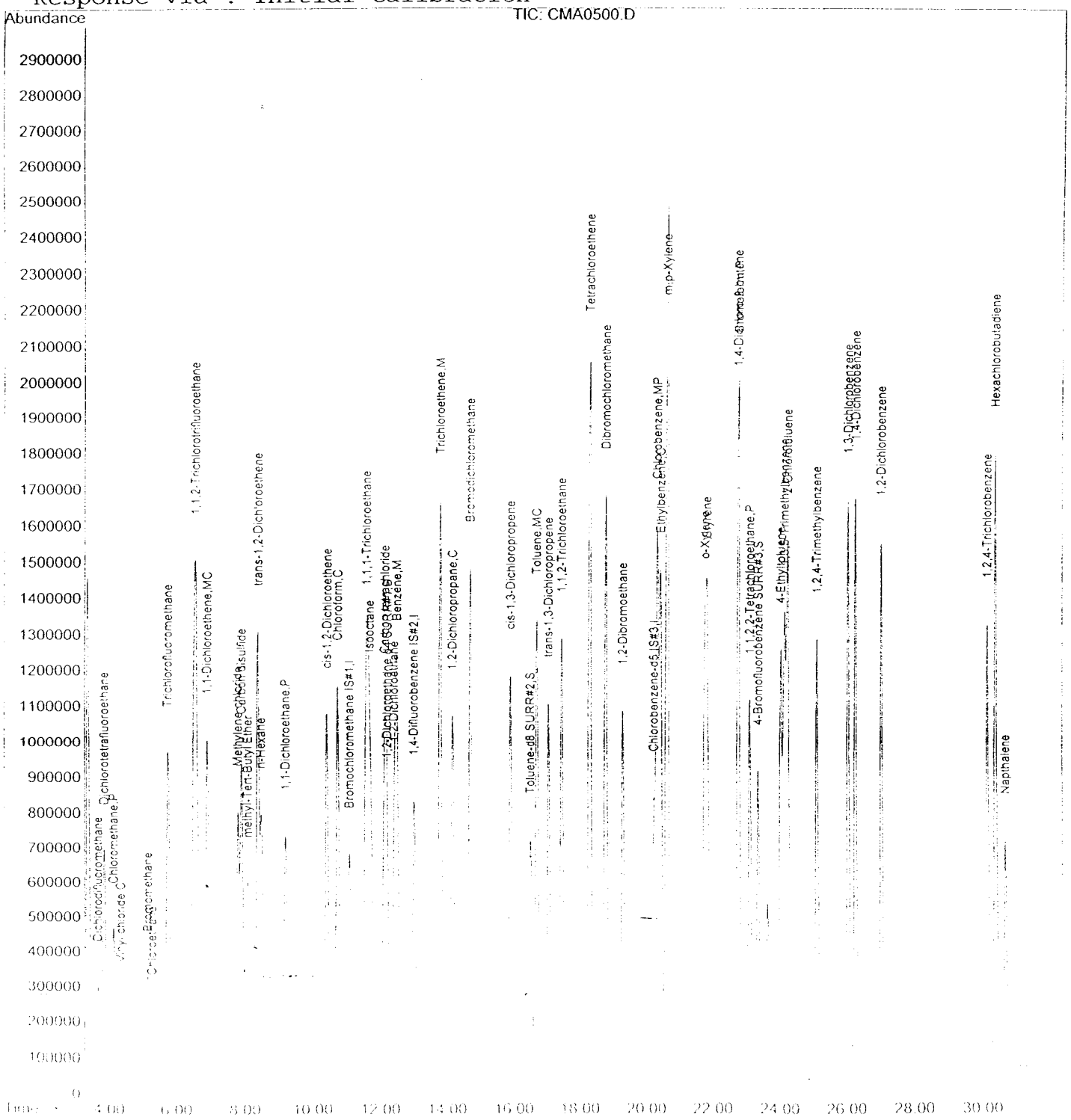
Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Aug 05 16:28:28 2002
Response via : Initial Calibration
DataAcq Meth : TO14S

	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

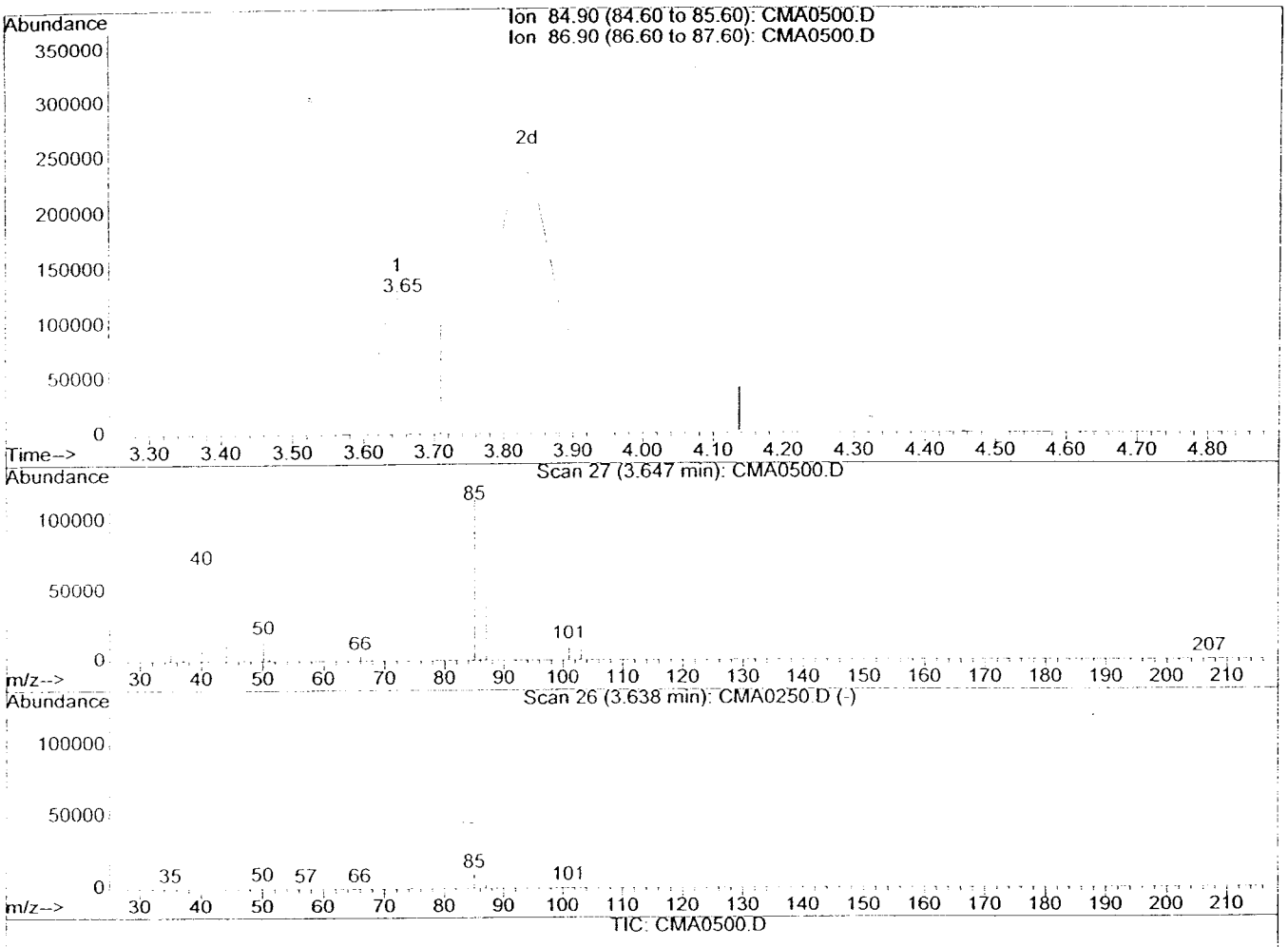
Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0500.D Vial: 6
Acq On : 5 Aug 2002 16:23 Operator: BDH
Sample : 500ng/20uL/100ppb INITIAL CALIB. Inst : MARILYN
Misc : Pi/Pf=1 MA135ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 6 9:15 2002 Quant Results File: TO14S.RES

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



(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

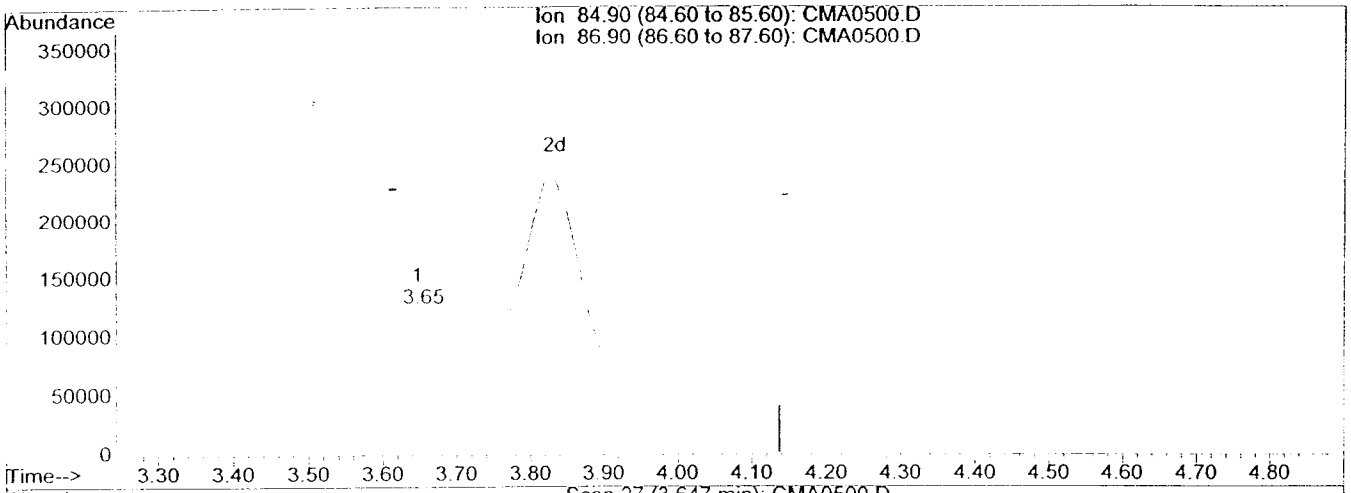
before (tailing)

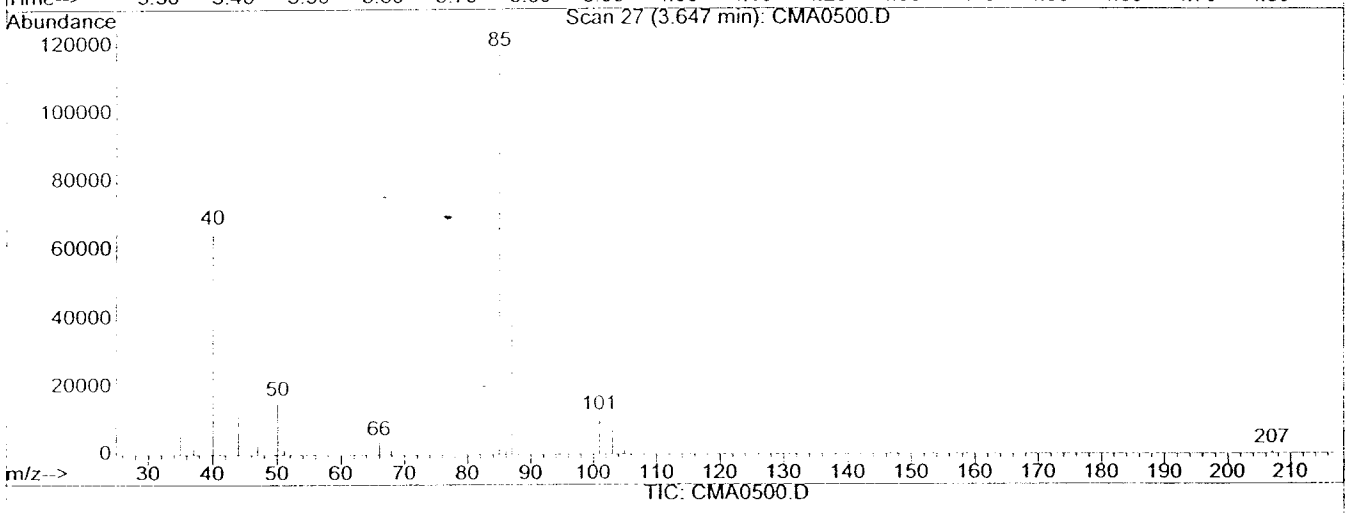
CMA0500.D TO14S.M Tue Aug 06 08:52:26 2002

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

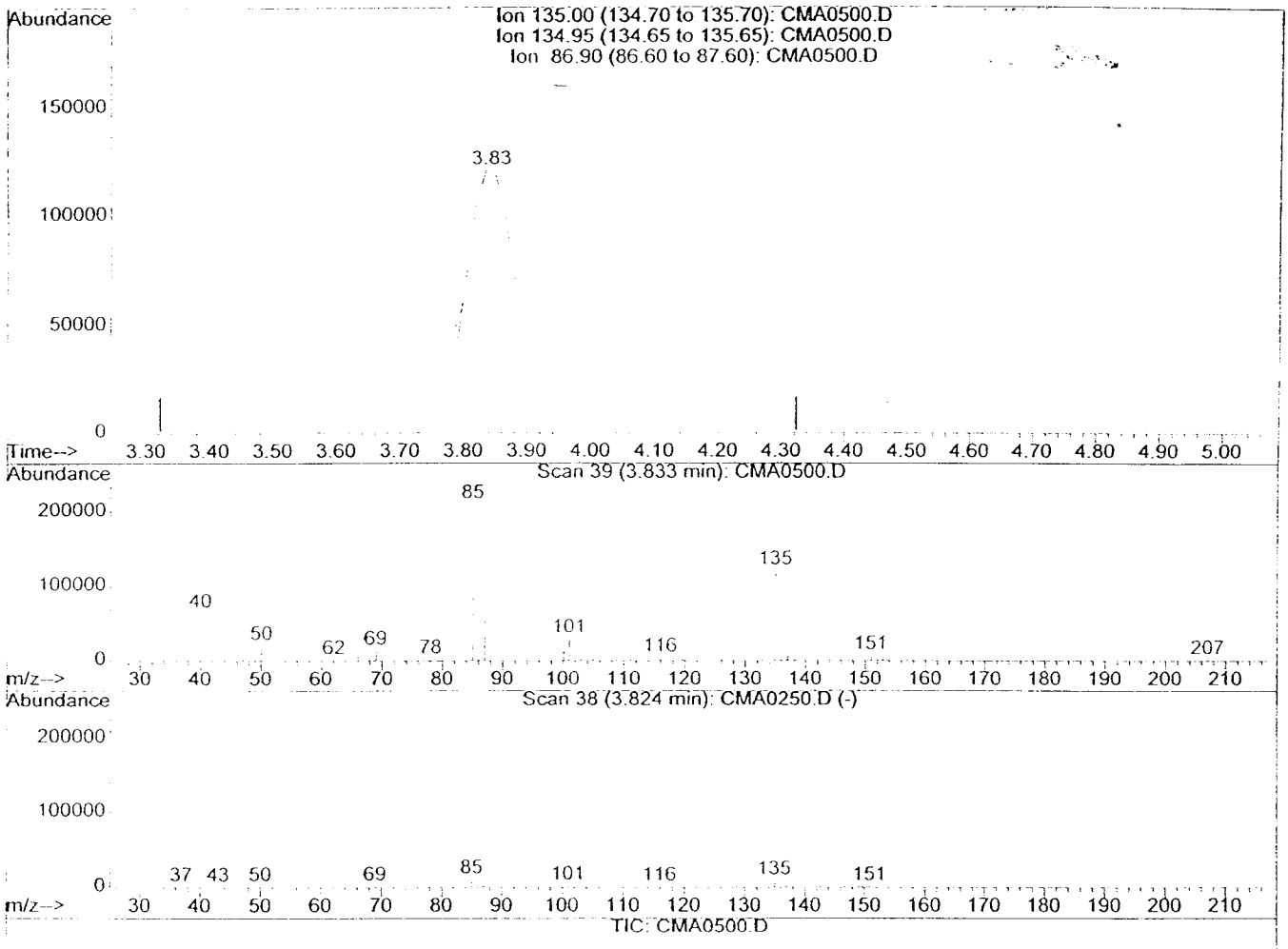
Ion	Exp%	Act%
84.90	100	100
86.90	33.50	28.93
0.00	0.00	0.00
0.00	0.00	0.00

TM 8-6-02

CMA0500.D TO14S.M Tue Aug 06 09:15:37 2002

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA0500.D 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.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

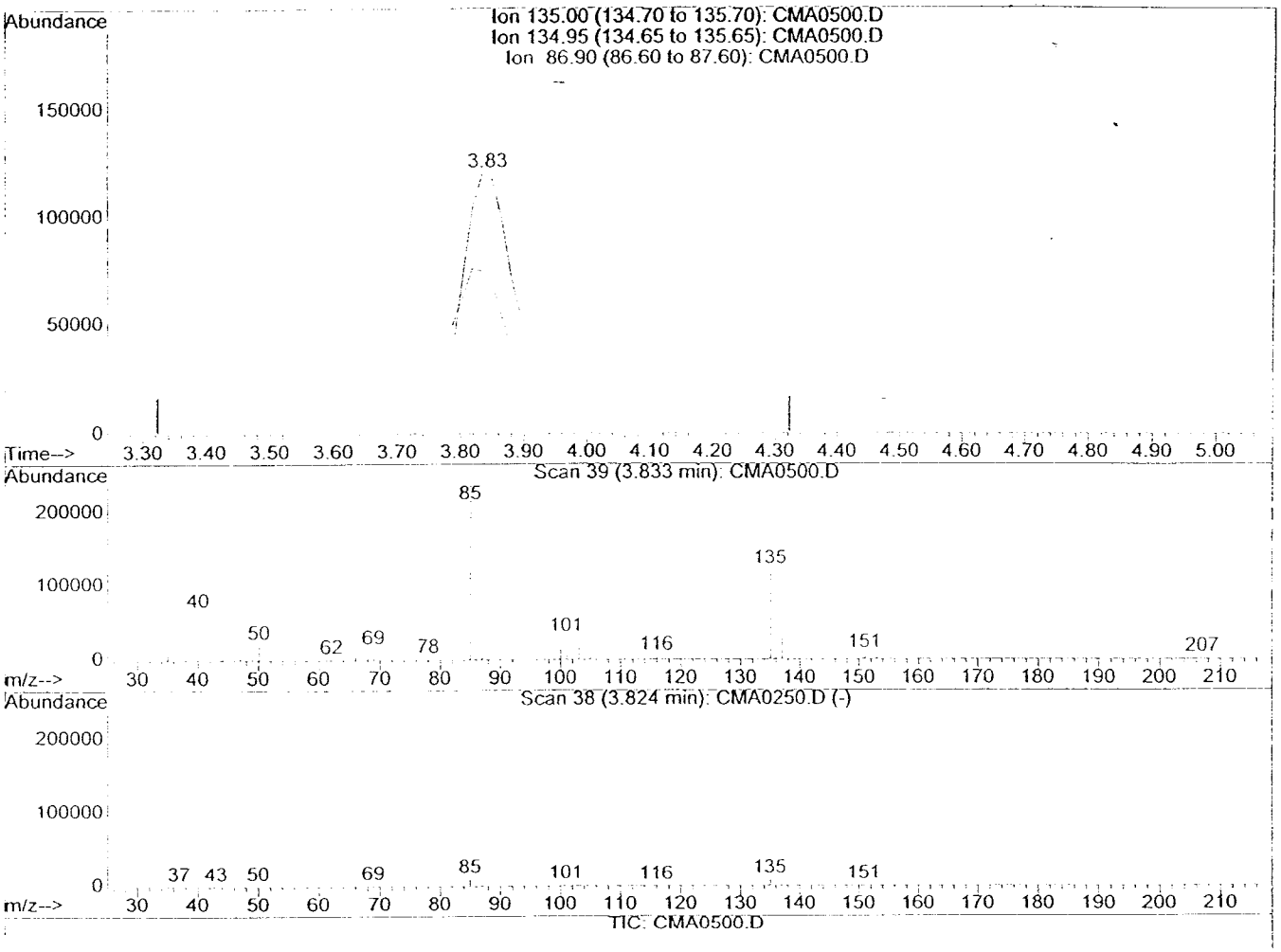
before (tailing)

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 6 8:53 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 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 BAH 8/6/02

CMA0500.D TO14S.M Tue Aug 06 08:53:11 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: [illegible]
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	95

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

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

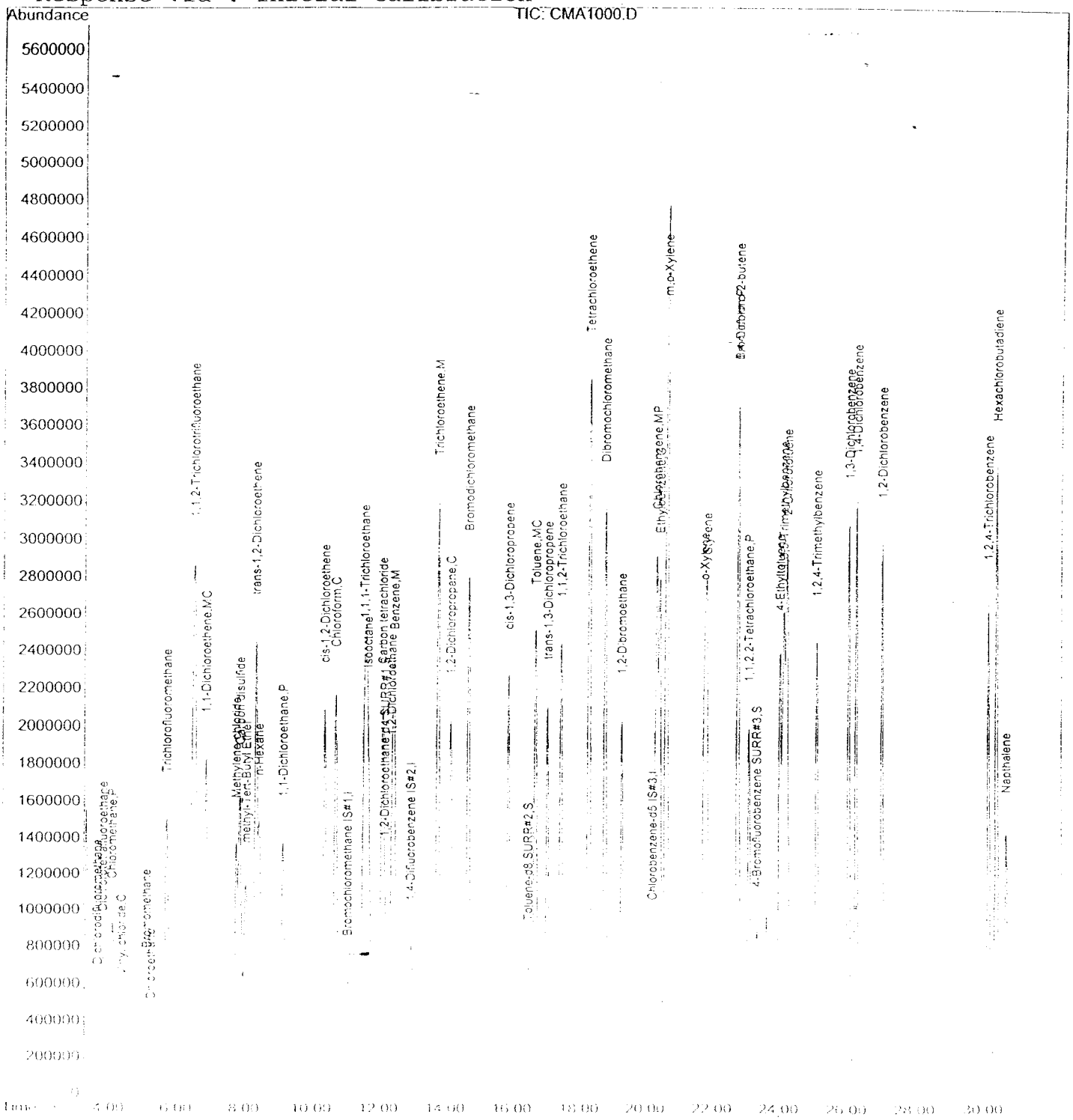
Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Aug 05 17:17:06 2002
Response via : Initial Calibration
DataAcq Meth : TO14S

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

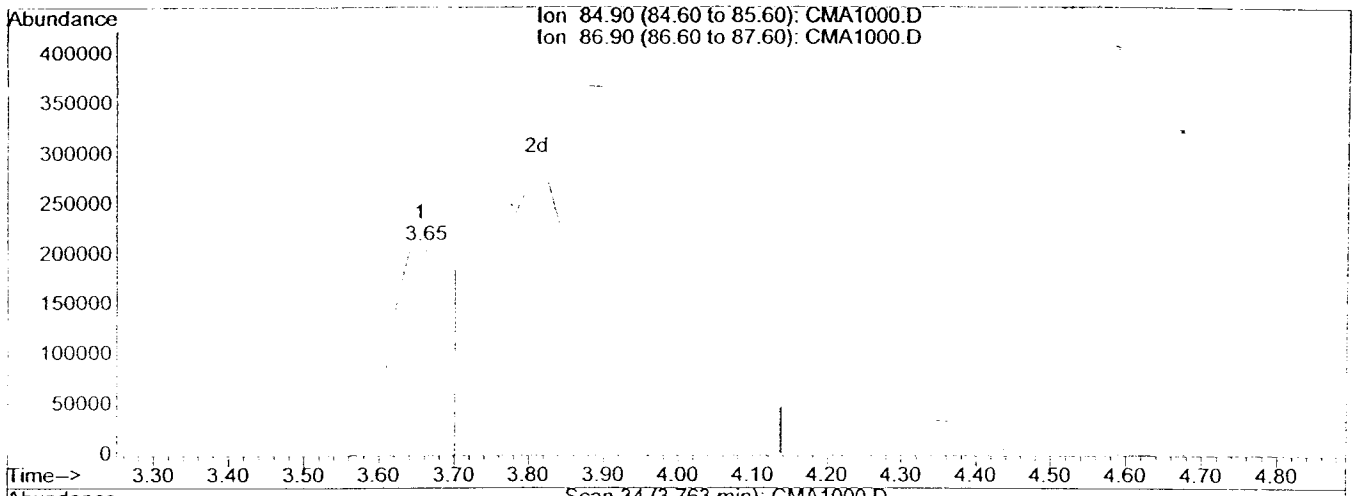
Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Tue Aug 06 09:02:44 2002
Response via : Initial Calibration

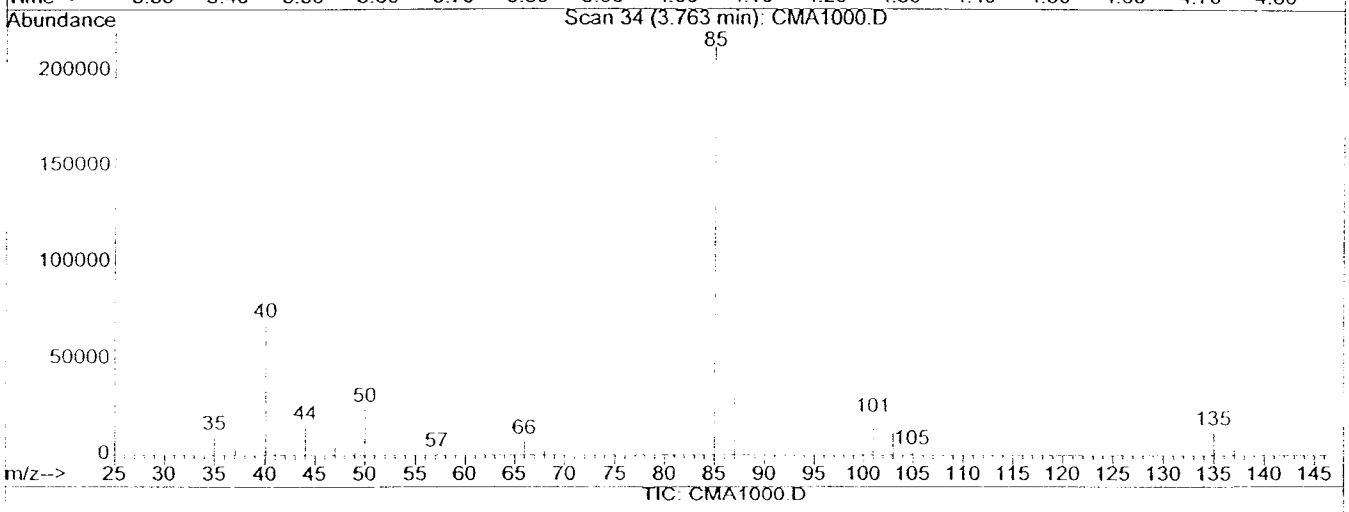


CMA1000.D TO14S.M Tue Aug 06 09:17:14 2002 Page 3

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA1000.D Vial: 7
Acq On : 5 Aug 2002 17:00 Operator: BMJ
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.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

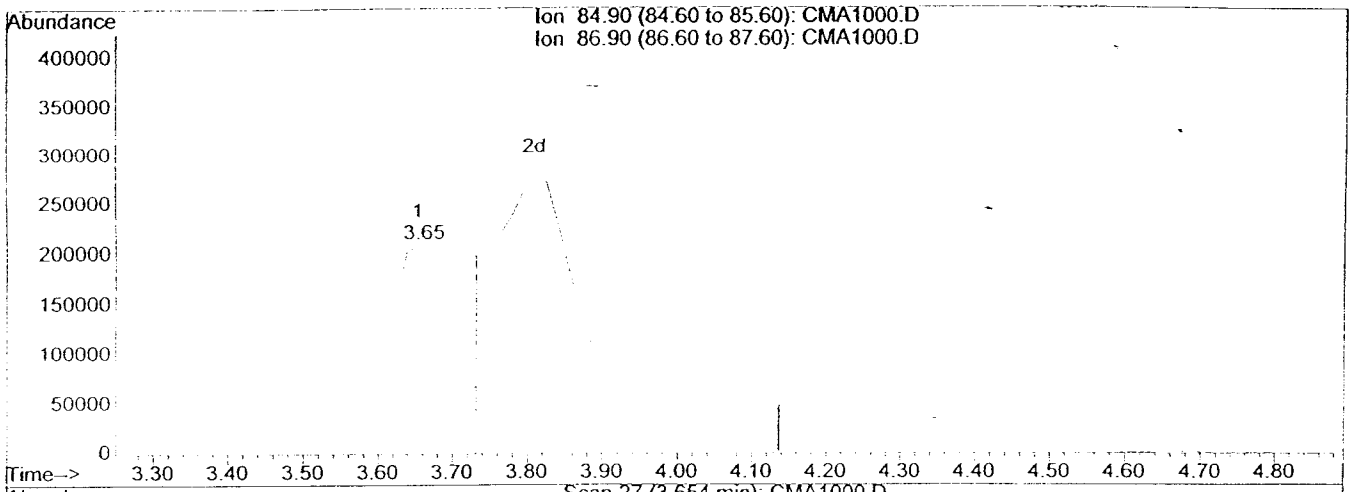
Ion	Exp%	Act%
84.90	100	100
86.90	33.50	33.31
0.00	0.00	0.00
0.00	0.00	0.00

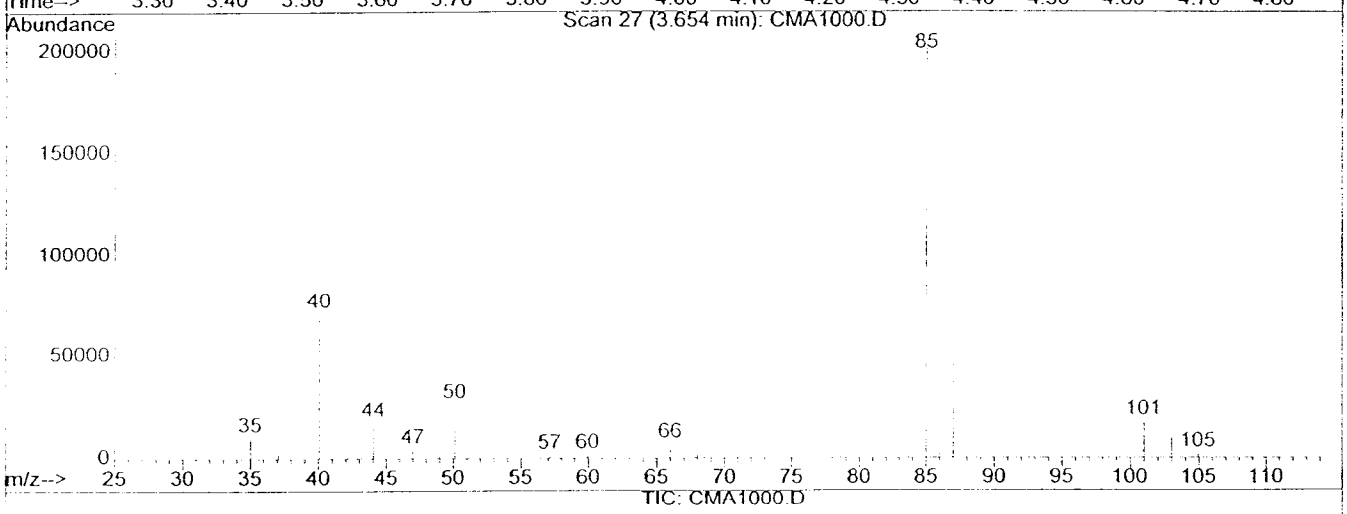
before (tailing)

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

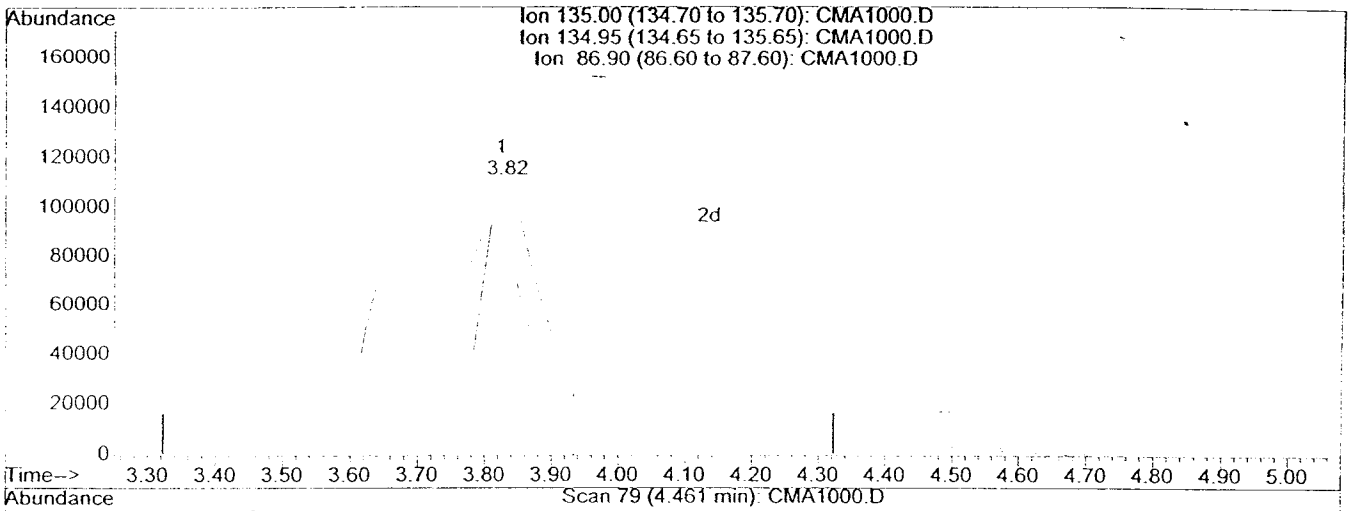
Ion	Exp%	Act%
84.90	100	100
86.90	33.50	25.38#
0.00	0.00	0.00
0.00	0.00	0.00

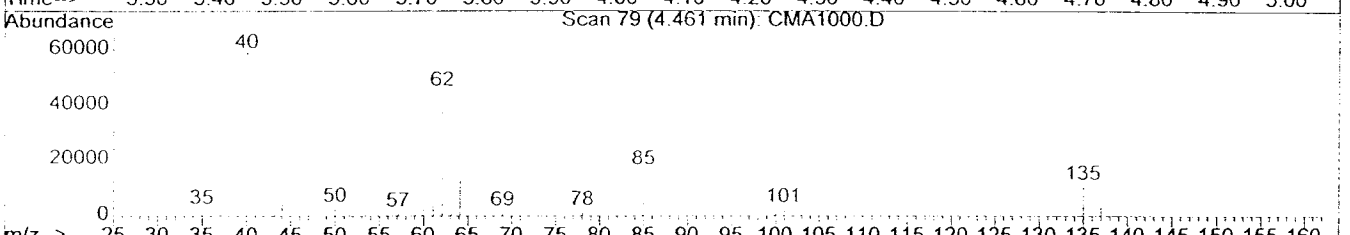
7-6-02

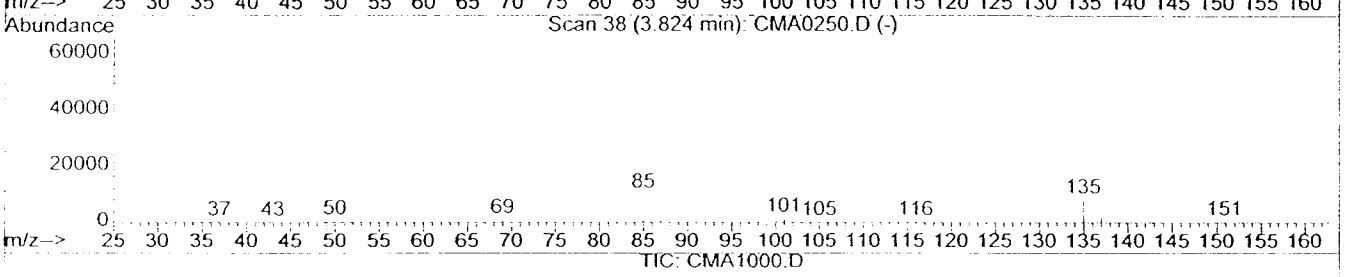
CMA1000.D TO14S.M Tue Aug 06 09:17:01 2002

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.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

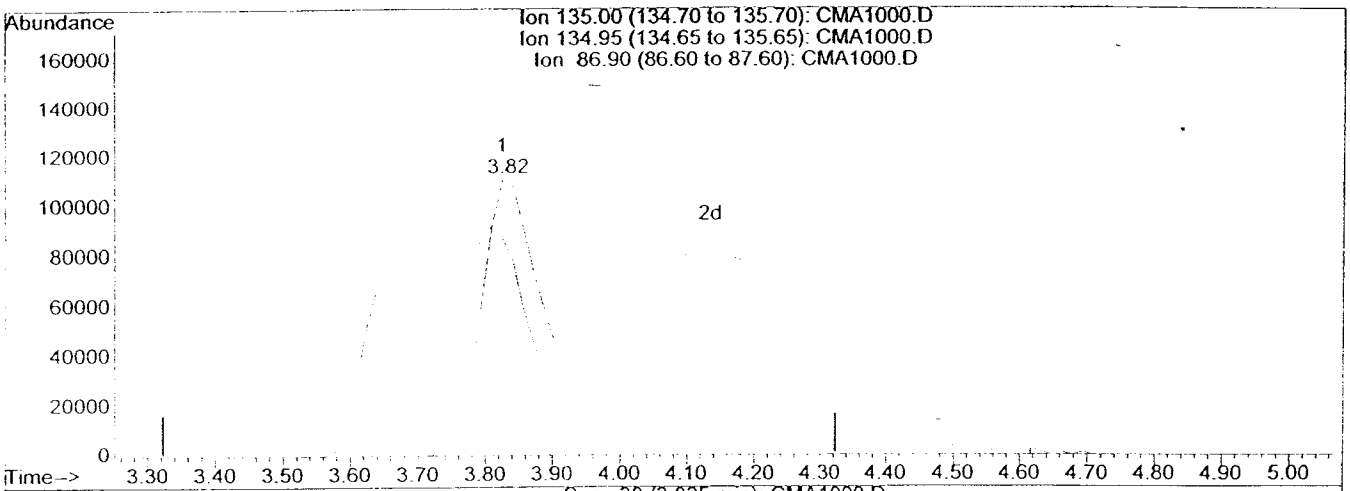
before (tailing)

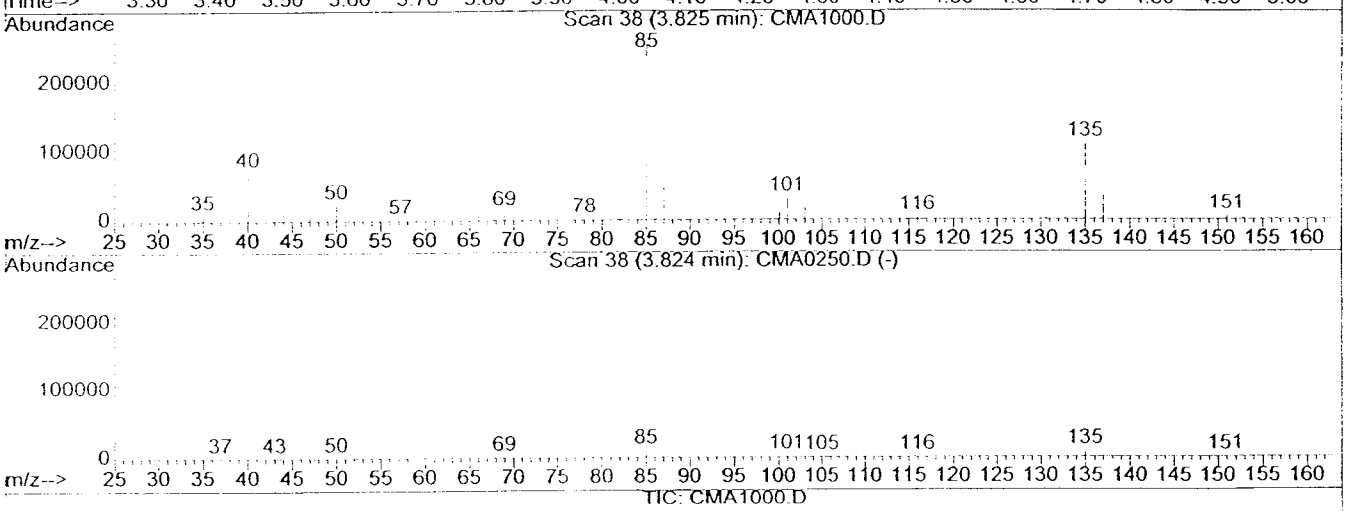
CMA1000.D TO14S.M Tue Aug 06 08:27:52 2002

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





TIC: CMA1000.D

(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

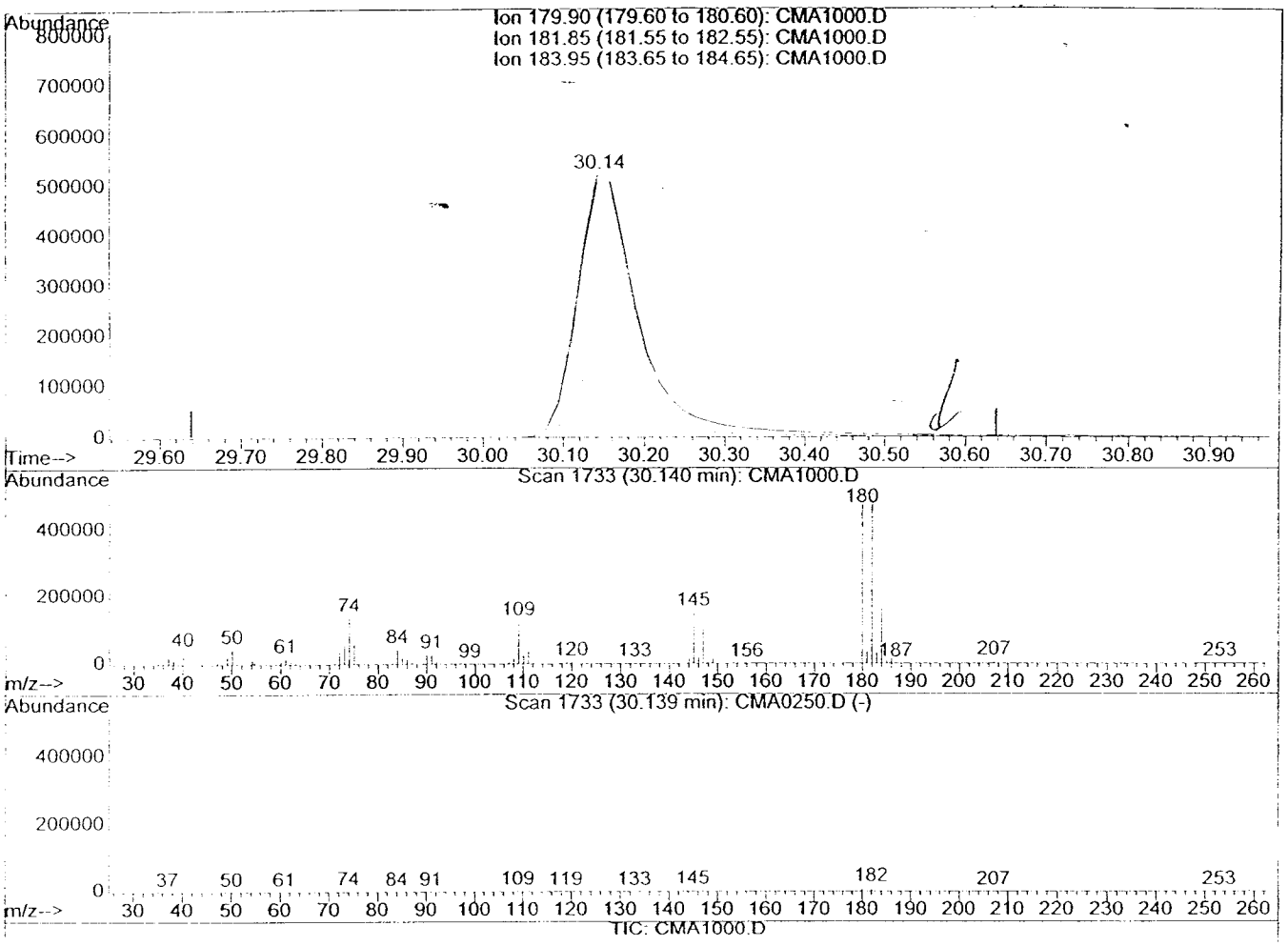
CMA1000.D TO14S.M Tue Aug 06 08:28:00 2002

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA1000.D
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: [illegible]
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

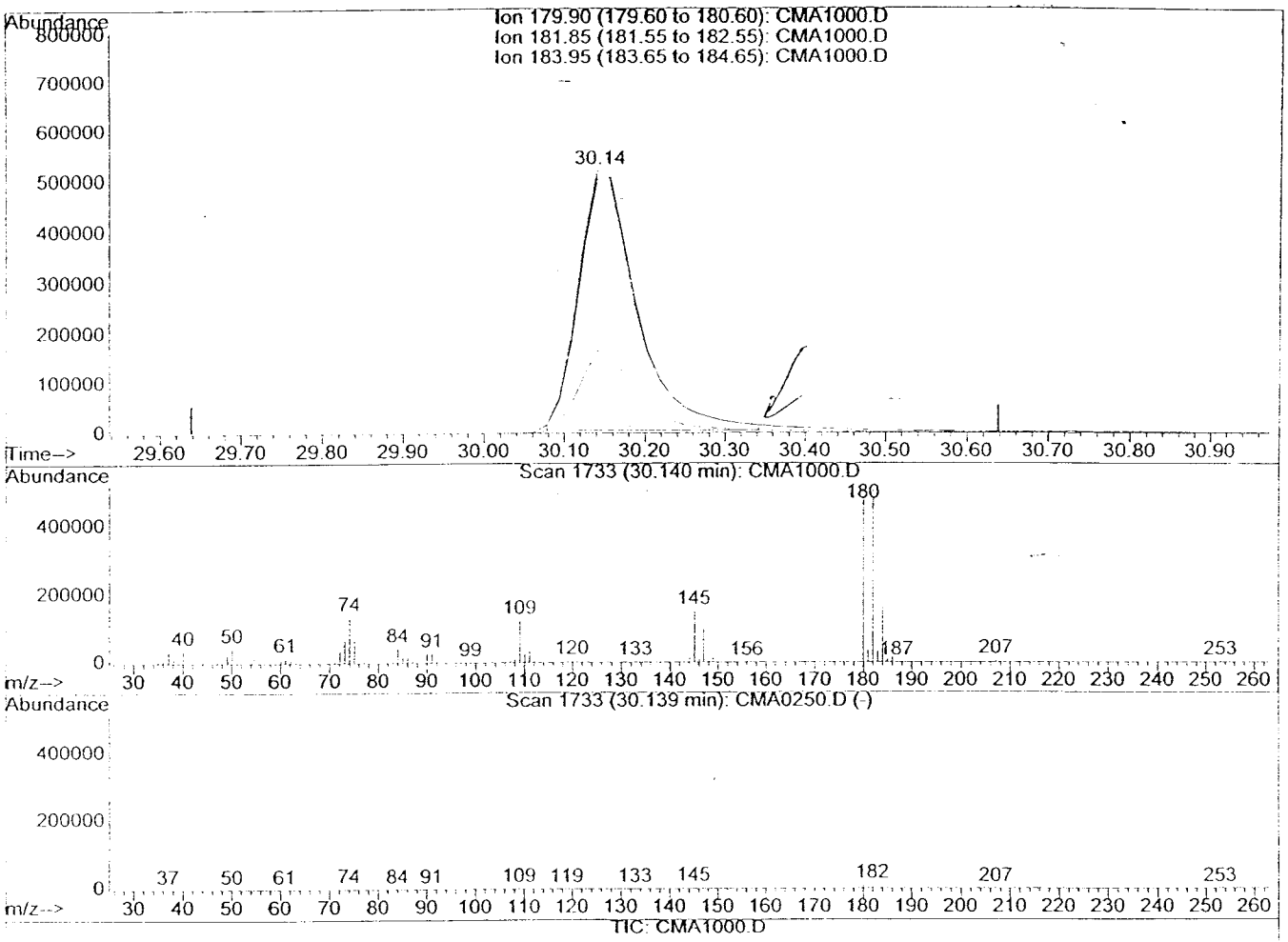
before (tailing)

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 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
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 [illegible]		
55)	1,2,4-Trichlorobenzene	30.14	180	2806950	117[illegible]		
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 Mon Aug 05 17:32:52 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: 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	13.43	78	8500240	1624.48	ng	98

(#) = qualifier out of range (m) = manual integration
CMA1500.D TO14S.M Tue Aug 06 09:23:10 2002 Page 1

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA1500.D Vial: 8
Acq On : 5 Aug 2002 17:38 Operator: [illegible]
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

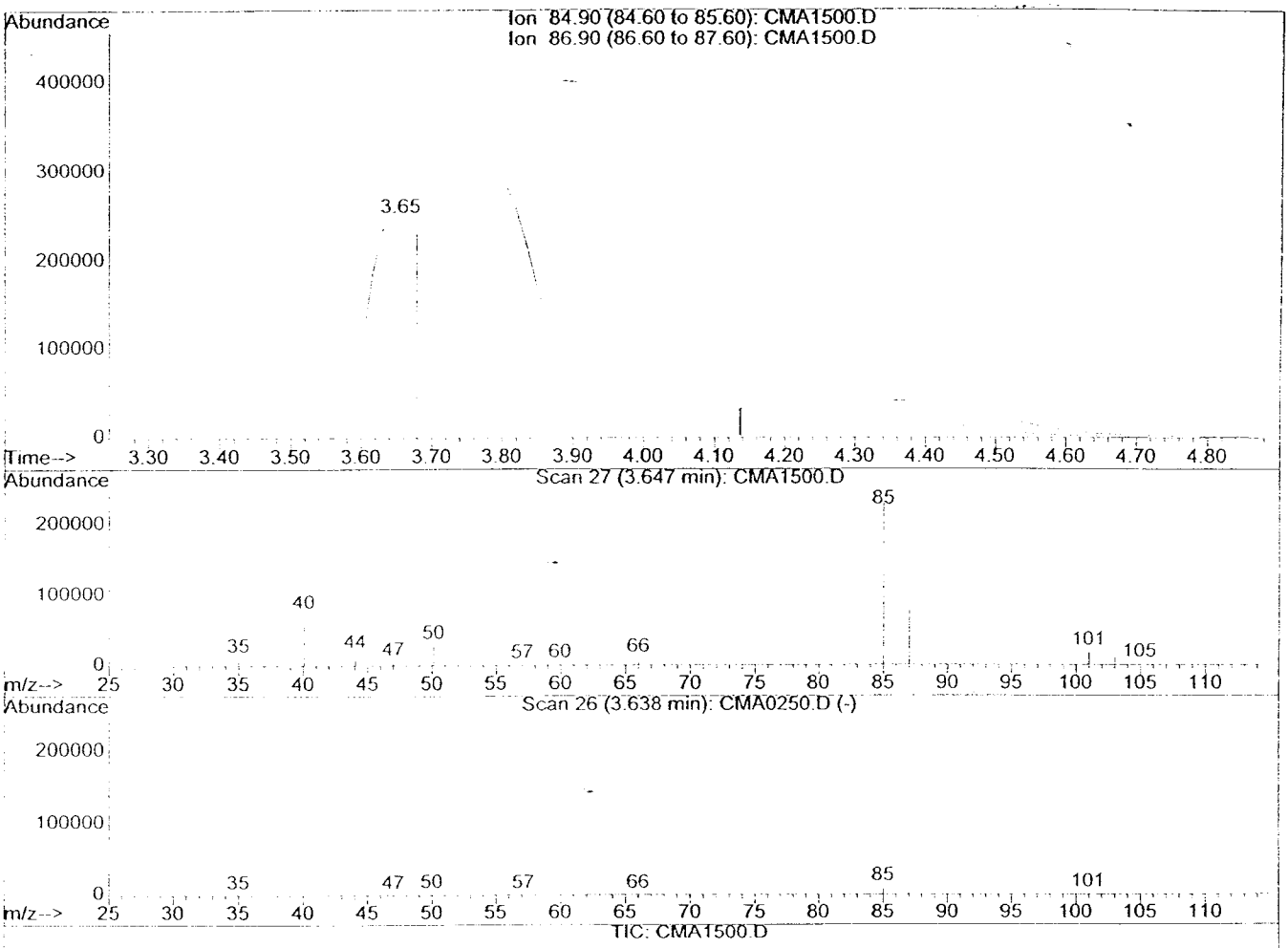
Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Aug 05 17:17:06 2002
Response via : Initial Calibration
DataAcq Meth : TO14S

	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
CMA1500.D TO14S.M Tue Aug 06 09:23:10 2002 Page 2

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA1500.D Vial: 8
Acq On : 5 Aug 2002 17:38 Operator: BLH
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.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

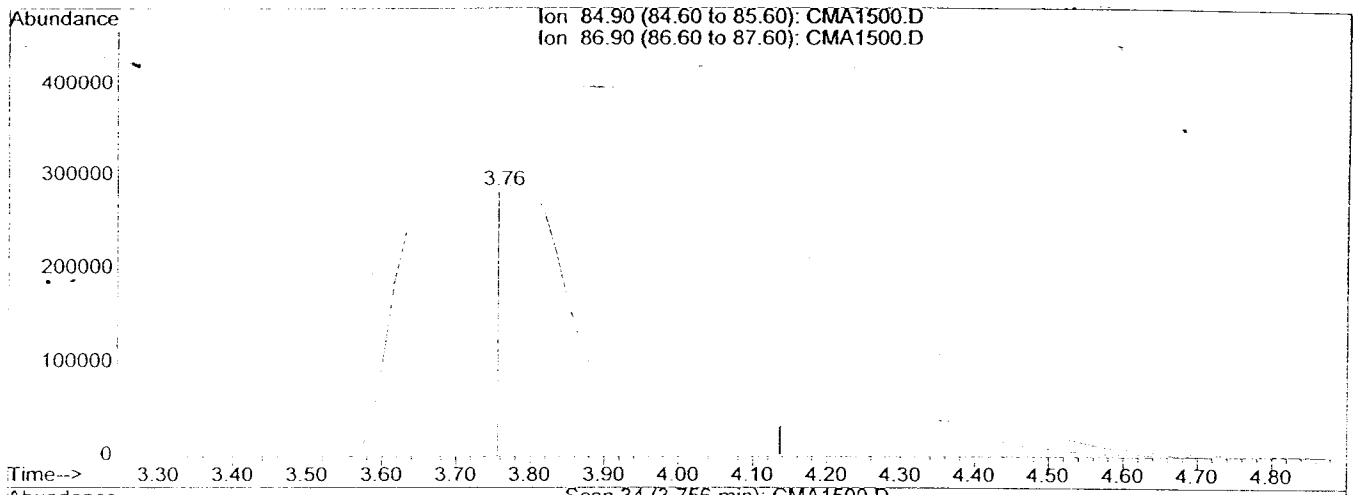
Ion	Exp%	Act%
84.90	100	100
86.90	33.50	33.13
0.00	0.00	0.00
0.00	0.00	0.00

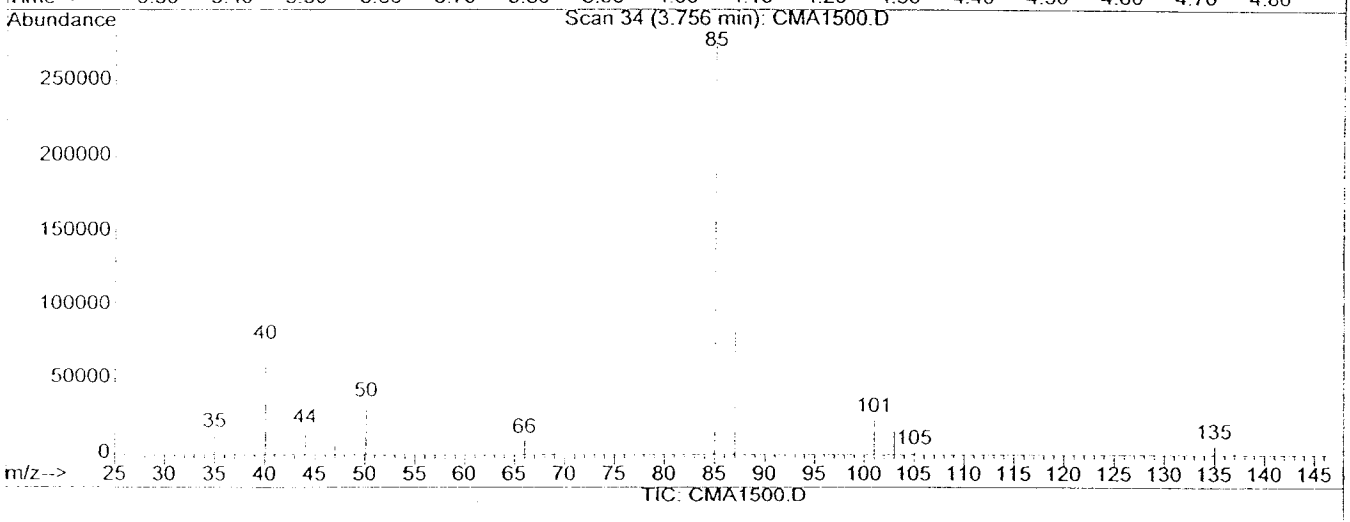
before (tailing)

CMA1500.D TO14S.M Tue Aug 06 08:32:27 2002

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA1500.D Vial: 8
Acq On : 5 Aug 2002 17:38 Operator: SDM
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

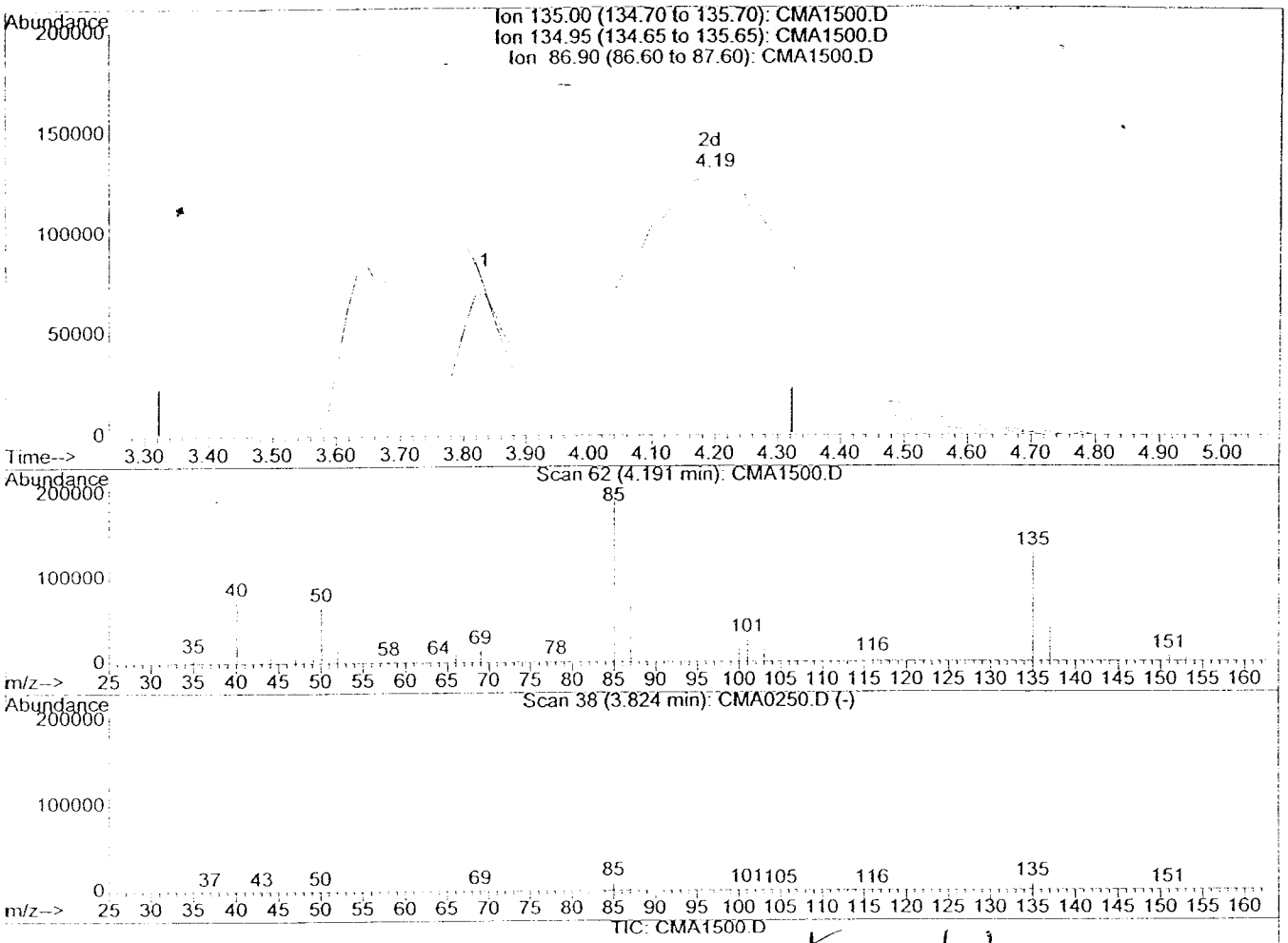
Ion	Exp%	Act%
84.90	100	100
86.90	33.50	16.43#
0.00	0.00	0.00
0.00	0.00	0.00

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.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 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
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
CMA1500.D TO14S.M Mon Aug 05 18:11:03 2002 Page 1

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

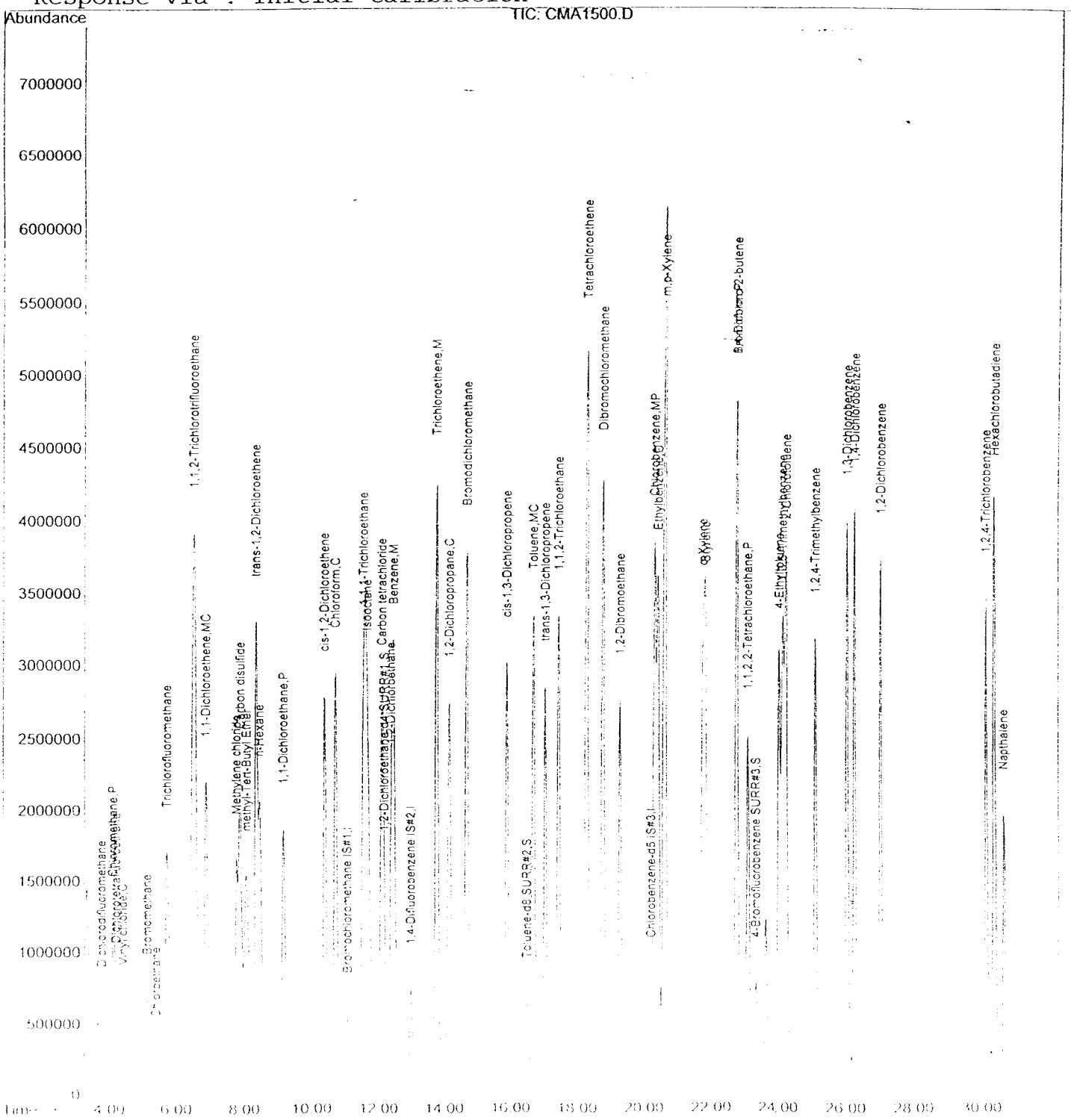
Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Mon Aug 05 17:17:06 2002
Response via : Initial Calibration
DataAcq Meth : TO14S

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
28)	Trichloroethene	13.75	130	4905602	1610.59	ng		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
CMA1500.D TO14S.M Mon Aug 05 18:11:04 2002 Page 2

Data File : D:\HPCHEM\1\DATA02\M0805A\CMA1500.D Vial: 8
Acq On : 5 Aug 2002 17:38 Operator: JDH
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

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

STL Pensacola / GCMS Volatiles Run Log

Date 9-3-02
Batch MA154 1 2 3
IS# 8 -MSW- 34 - 1
BFB 8 -MSW- 34 - 1

Instrument ID : MARILYN
Batch _____ 1 2 3
TO14 8 -MSW- 37 - 1
8260 -MSW- -

Method : TO14 /8260AIR /8260WATER /624MOD

AIR-SPK 8 -MSW- 36 - 2
W-SPK -MSW- -

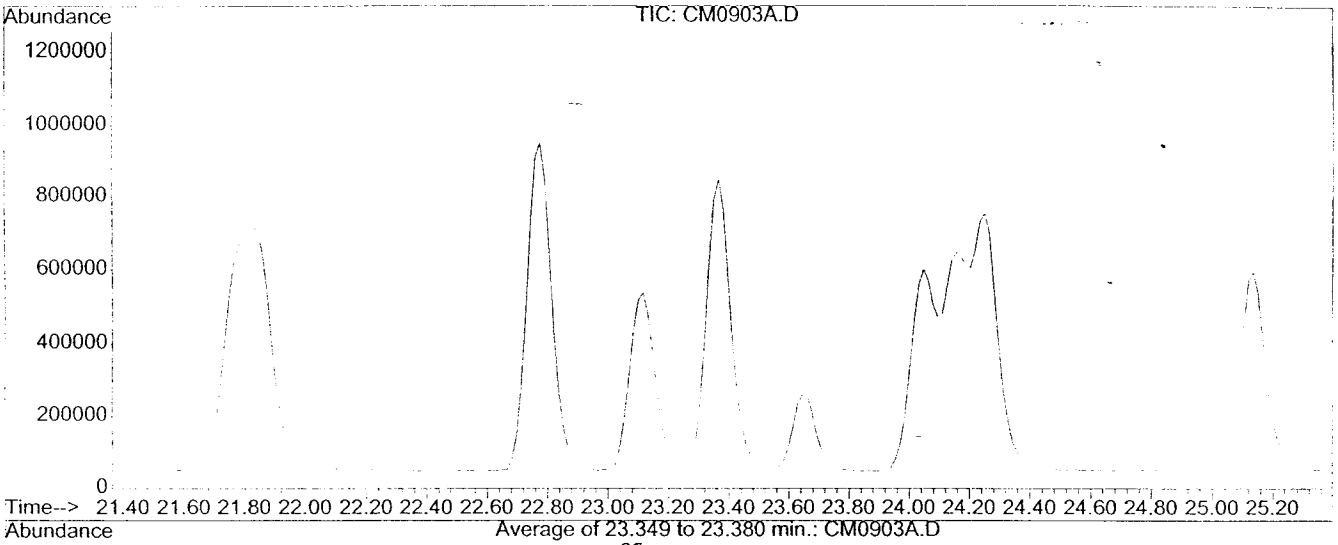
Maint. _____

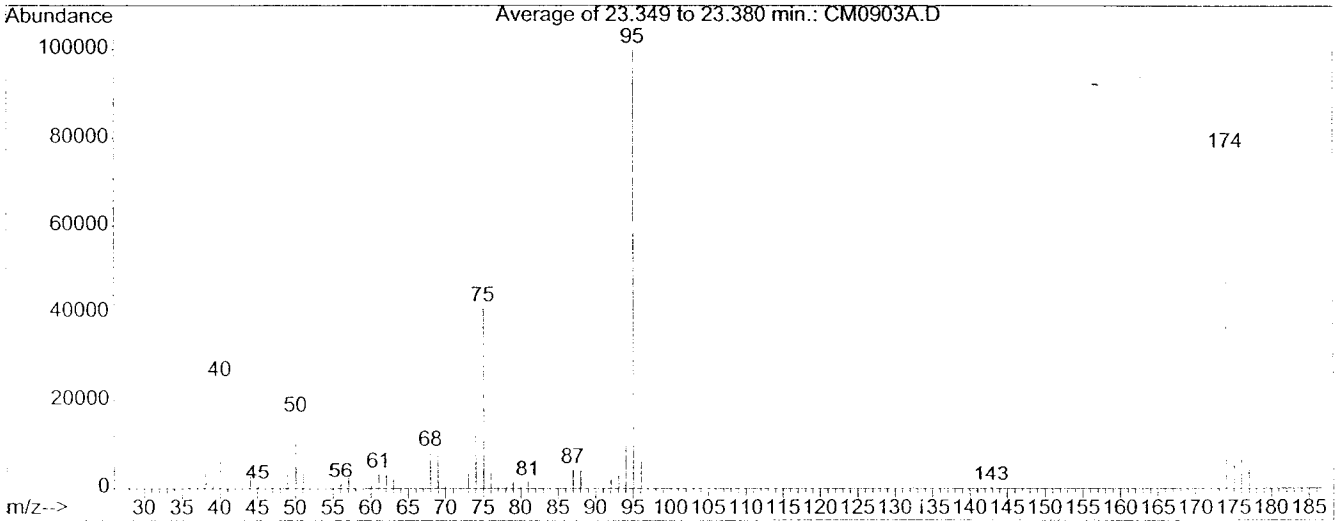
TIME	POS #	METH	FILE NAME/ SAMPLE ID	DIL.	RR	PRES	MATRIX	QC PASS**	*INIT	COMMENTS
08:47	1	To14s.m	CM 0903A	250ng			W	Yes	BAH	Daily Cal Check / BFB tune
09:25	2		MA154A BK	ST						Daily Method Blank
10:03	3		MA154 LCS	50ppb						Batch# 154 LCS
10:41	4		8470-2RR	X2000	✓✓	Y N	A(TO14)			250uls for n-hexane 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				
:						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: [illegible]
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#	[illegible]	
23	S	1,2-Dichloroethane d4 SURR#	1.114	1.097	1.5	[illegible]	[illegible]
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
CM0903A.D TO14S.M Tue Sep 03 16:25:34 2002 Page 2

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 Multiplr: 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

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
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(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	12.20	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		[illegible]

(#) = qualifier out of range (m) = manual integration
M0903A.D TO14S.M Tue Sep 03 09:56:34 2002 Page 1

Data File : D:\HPCHEM\1\DATA02\M0903A\CM0903A.D Vial: 1
Acq On : 3 Sep 2002 8:47 Operator: LDH
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

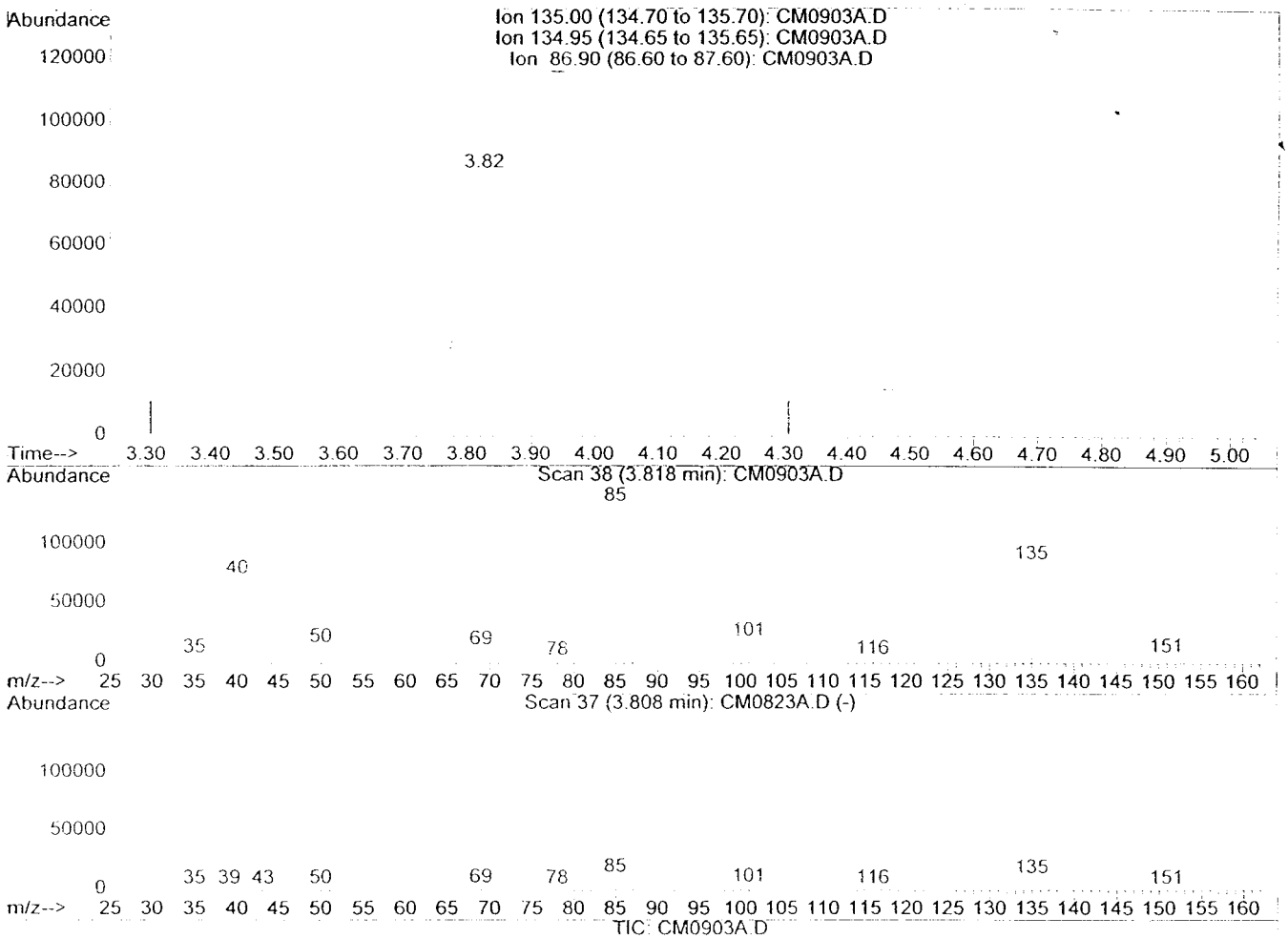
Quant Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Fri Aug 23 10:36:24 2002
Response via : Initial Calibration
DataAcq Meth : TO14S

	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	#	91
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
CM0903A.D TO14S.M Tue Sep 03 09:56:35 2002 Page 2

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: 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

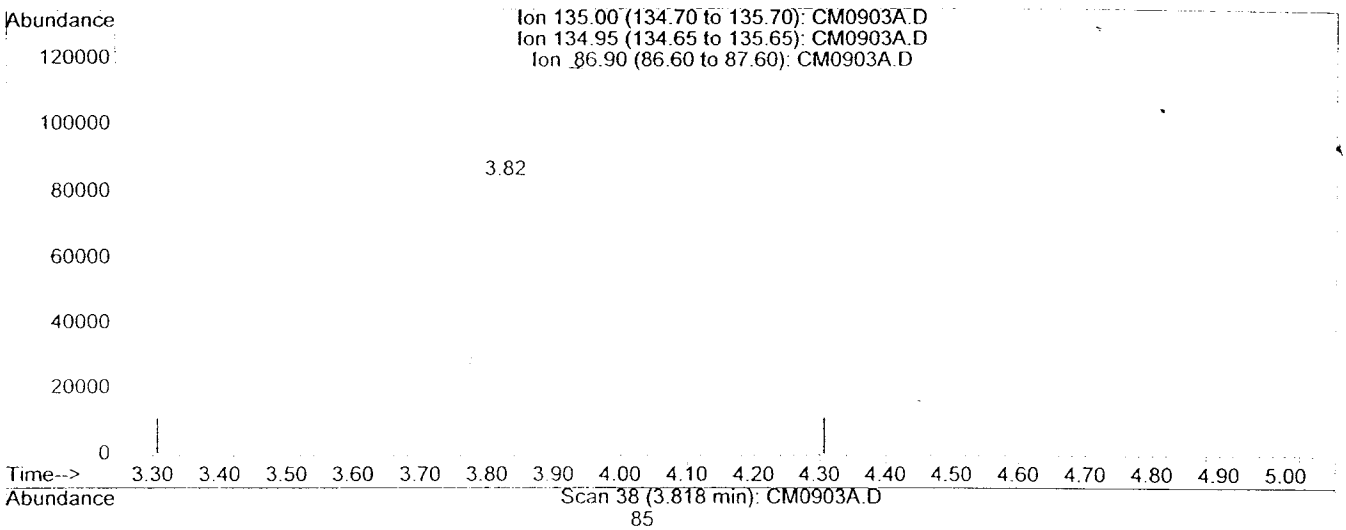
Ion	Exp%	Act%
135.00	100	100
134.95	56.30	100.00#
86.90	32.70	54.90#
0.00	0.00	0.00

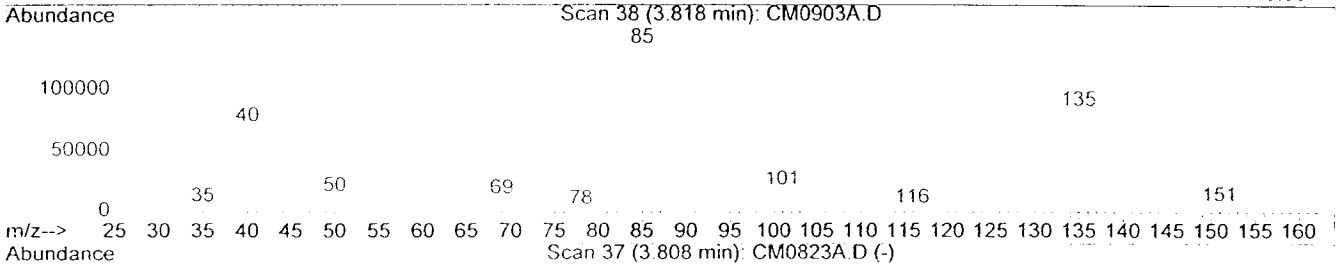
Before (failing)

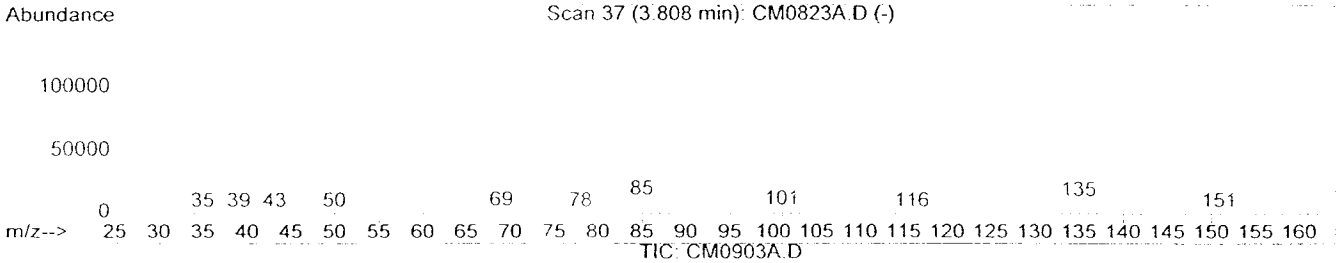
CM0903A.D TO14S.M Tue Sep 03 09:54:06 2002

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 9:54 2002 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

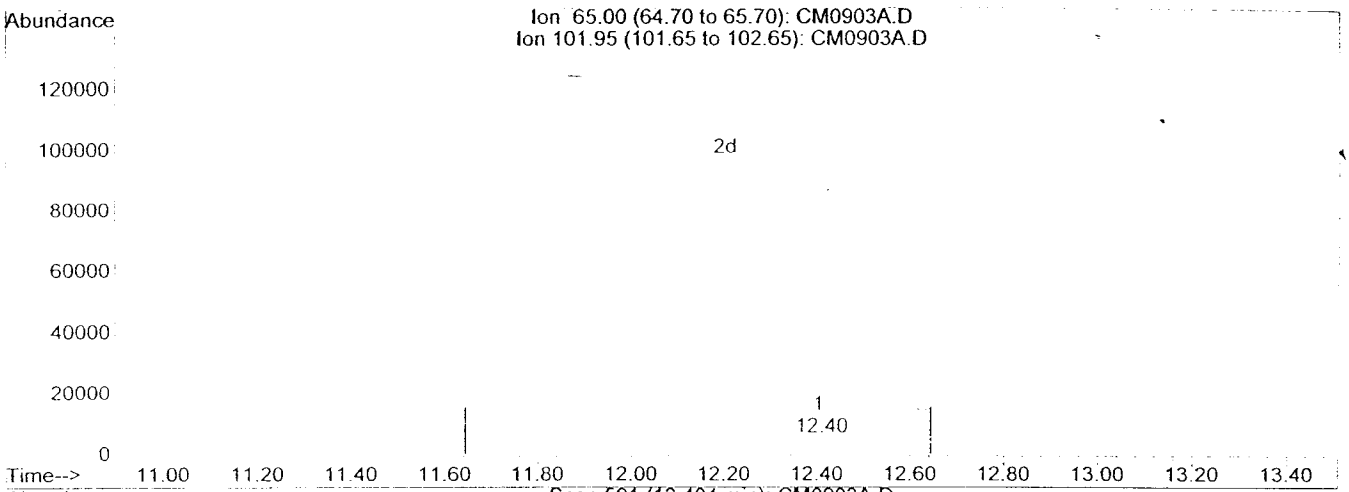
Ion	Exp%	Act%
135.00	100	100
134.95	56.30	69.79#
86.90	32.70	38.31
0.00	0.00	0.00

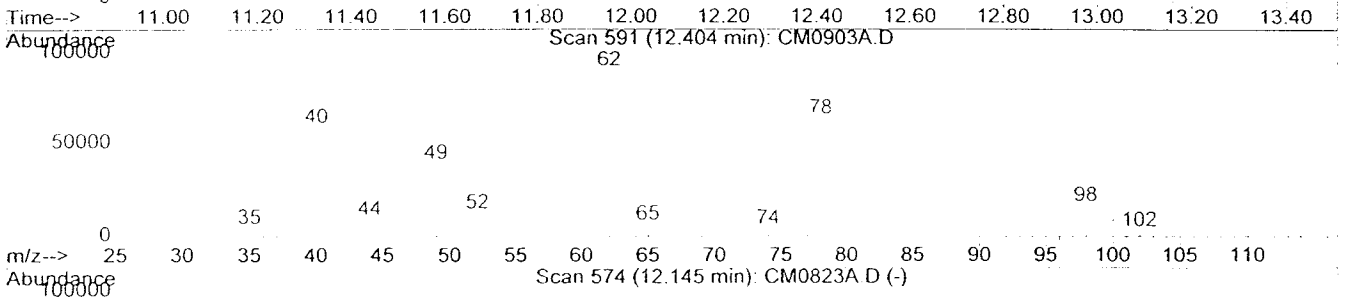
9-3-02

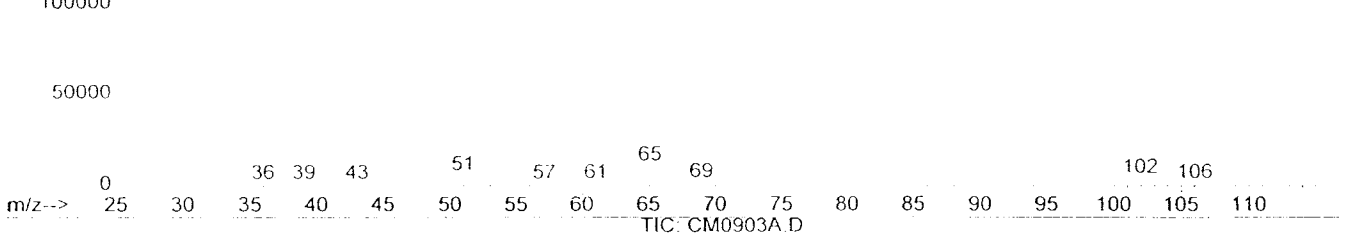
CM0903A.D TO14S.M Tue Sep 03 09:54:21 2002

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 9:54 2002 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

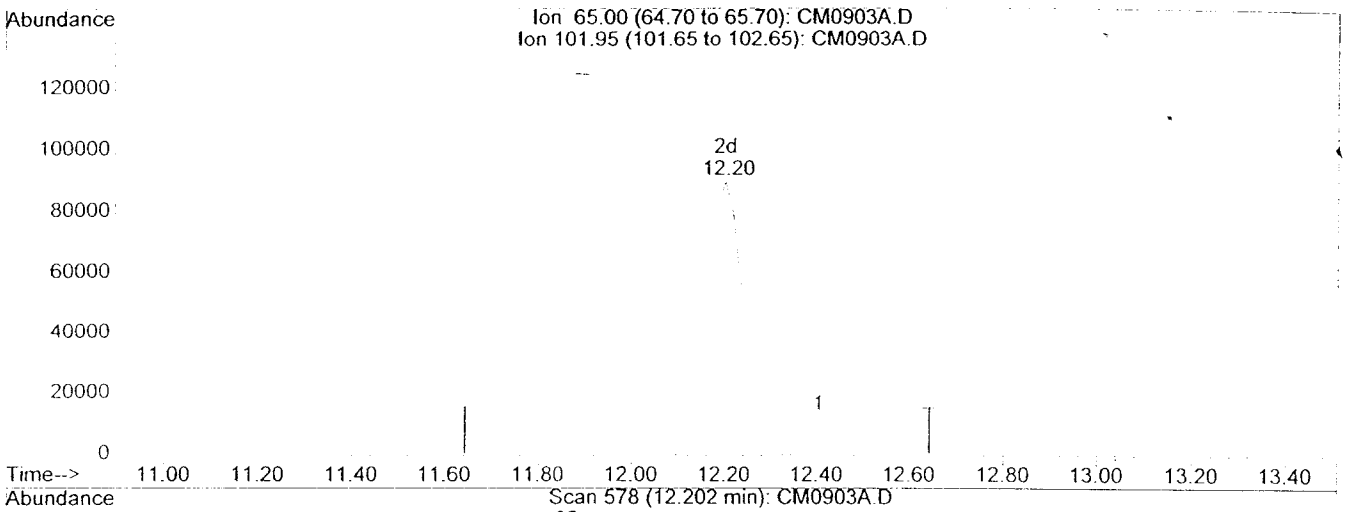
BF fail (missed peak)

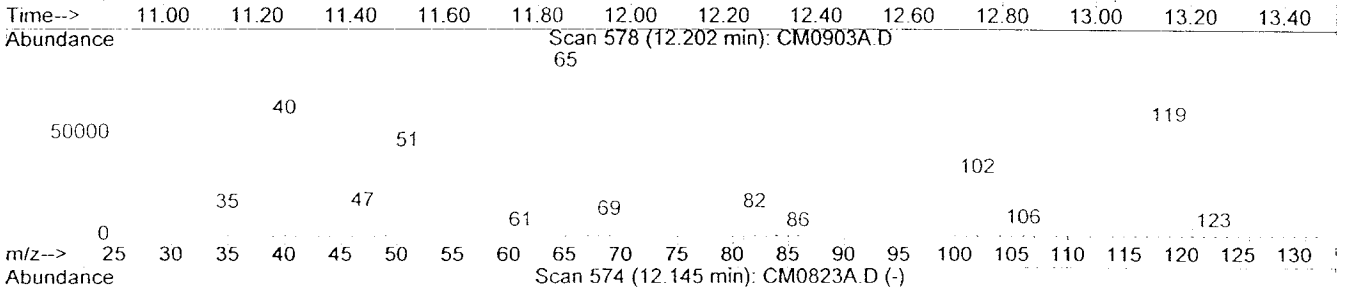
CM0903A.D TO14S.M Tue Sep 03 09:54:40 2002

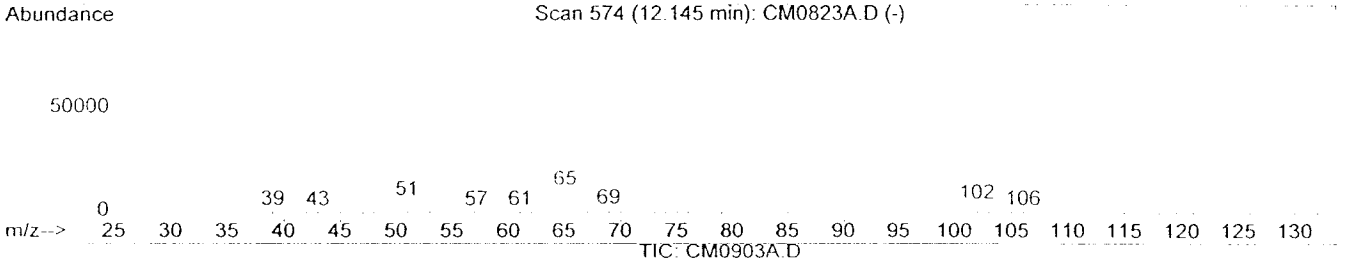
Data File : D:\HPCHEM\1\DATA02\M0903A\CM0903A.D
Acq On : 3 Sep 2002 8:47
Sample : VSTD050\ DAILY CALIBRATION CHECK
Misc : Pi/Pf=1 MA154ABK 250ng
MS Integration Params: rteint.p
Quant Time: Sep 3 9:54 2002

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)

12.20min 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

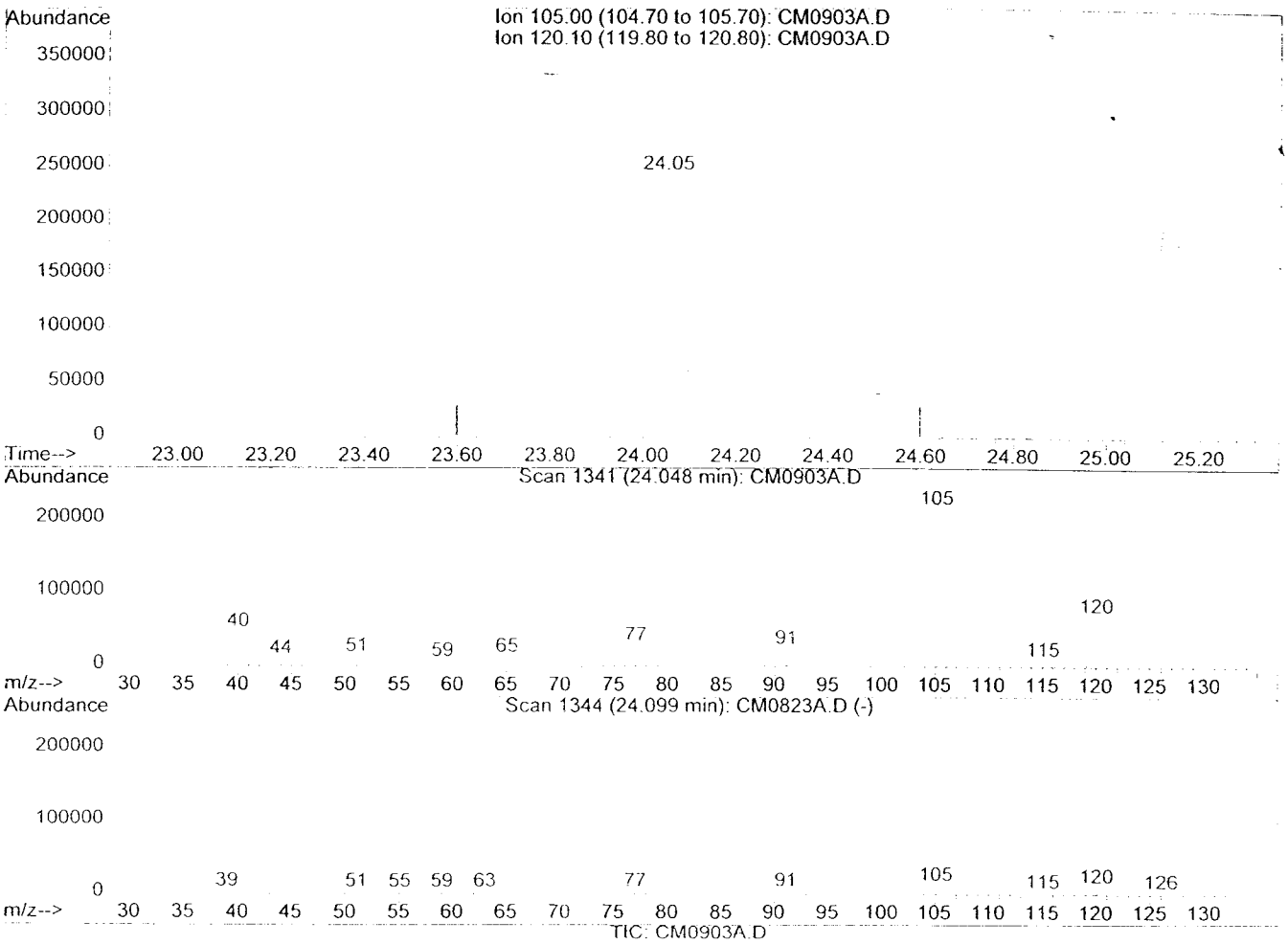
after
BDH 9-3-02

CM0903A.D TO14S.M Tue Sep 03 09:54:47 2002

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

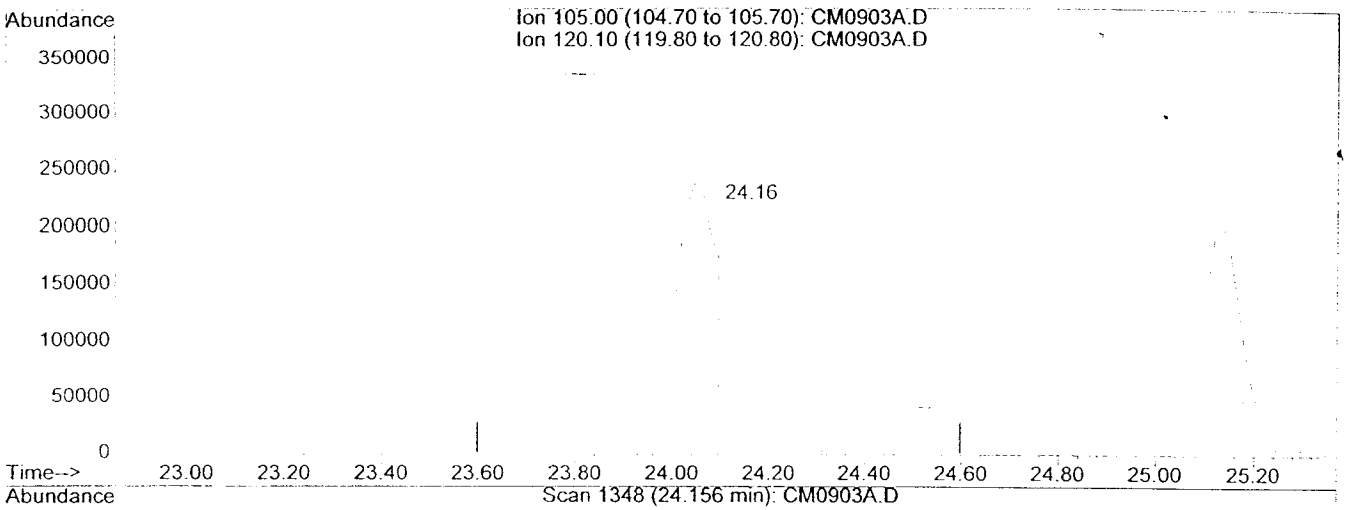
Below (wrong peak)

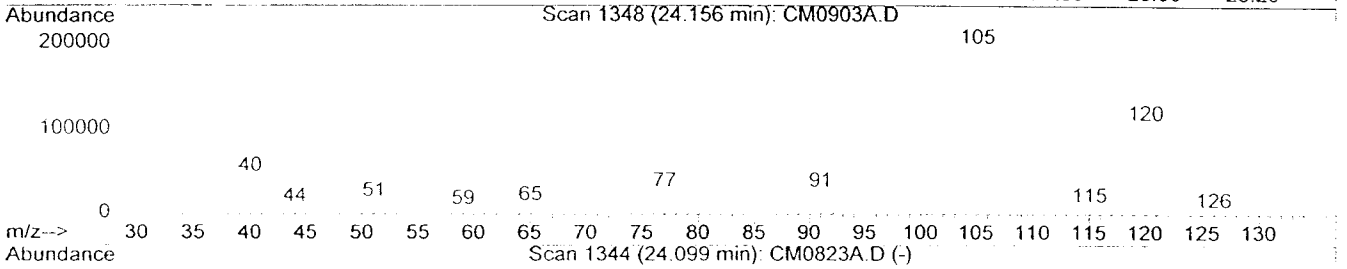
CM0903A.D TO14S.M Tue Sep 03 09:55:14 2002

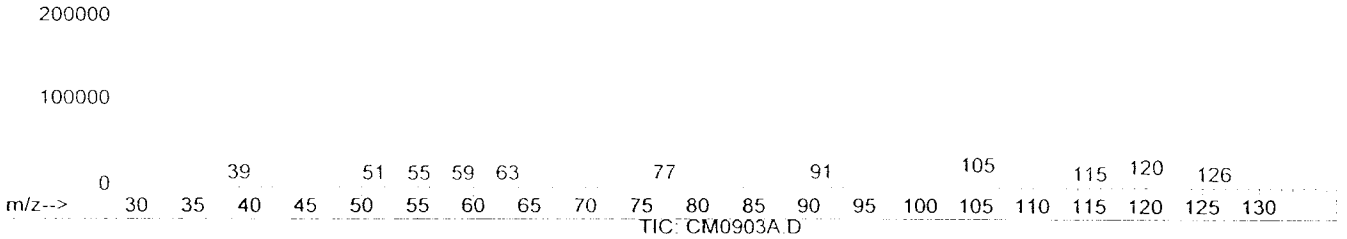
Data File : D:\HPCHEM\1\DATA02\M0903A\CM0903A.D
Acq On : 3 Sep 2002 8:47
Sample : VSTD050\ DAILY CALIBRATION CHECK
Misc : Pi/Pf=1 MA154ABK 250ng
MS Integration Params: rteint.p
Quant Time: Sep 3 9:55 2002

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

24.16min 326.65ng m

response 1368180

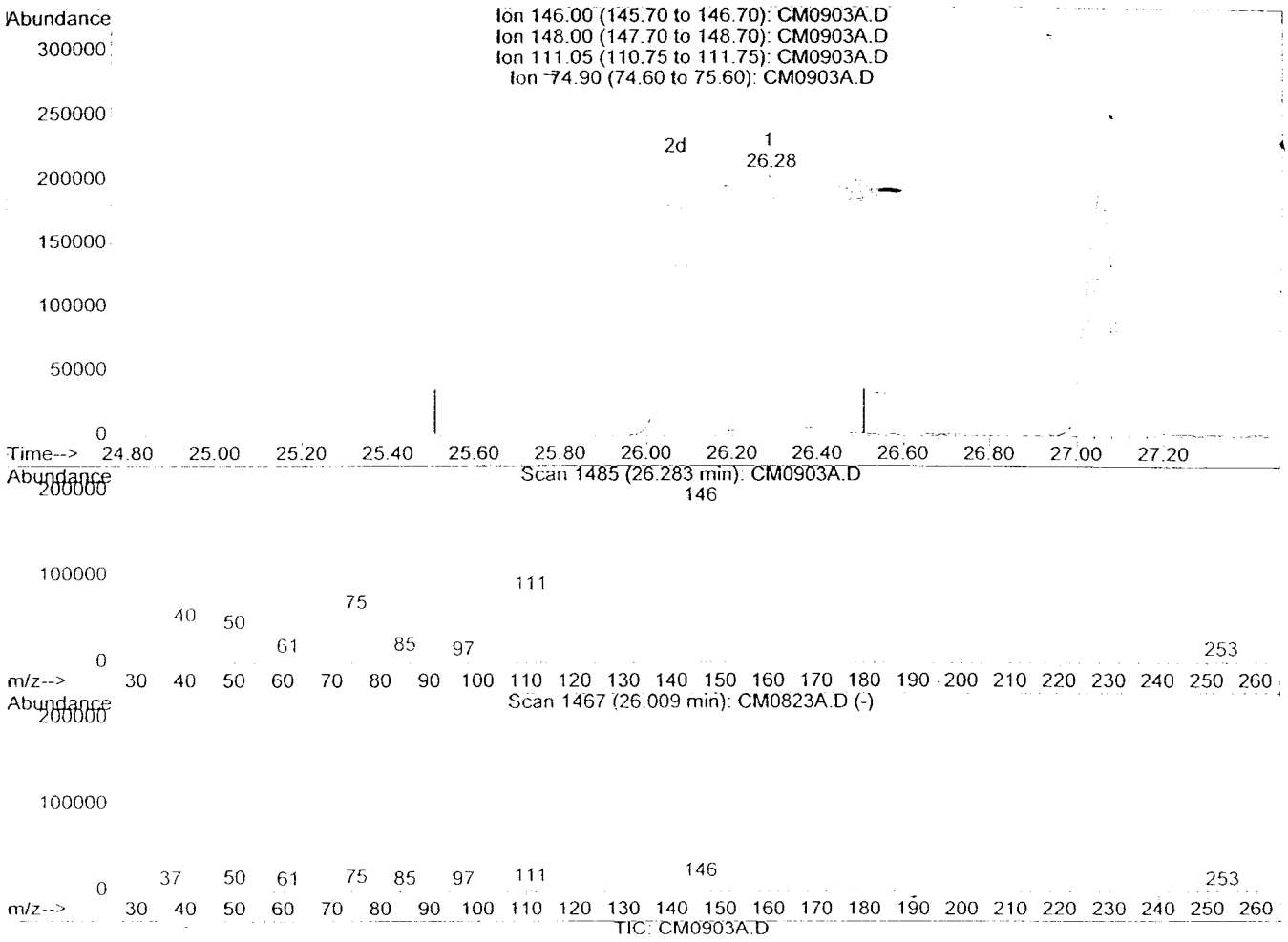
Ion	Exp%	Act%
105.00	100	100
120.10	46.70	29.37#
0.00	0.00	0.00
0.00	0.00	0.00

after
BH
9/3/02

CM0903A.D TO14S.M Tue Sep 03 09:55:29 2002

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: 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



(52) 1,3-Dichlorobenzene

26.28min 269.15ng

response 954041

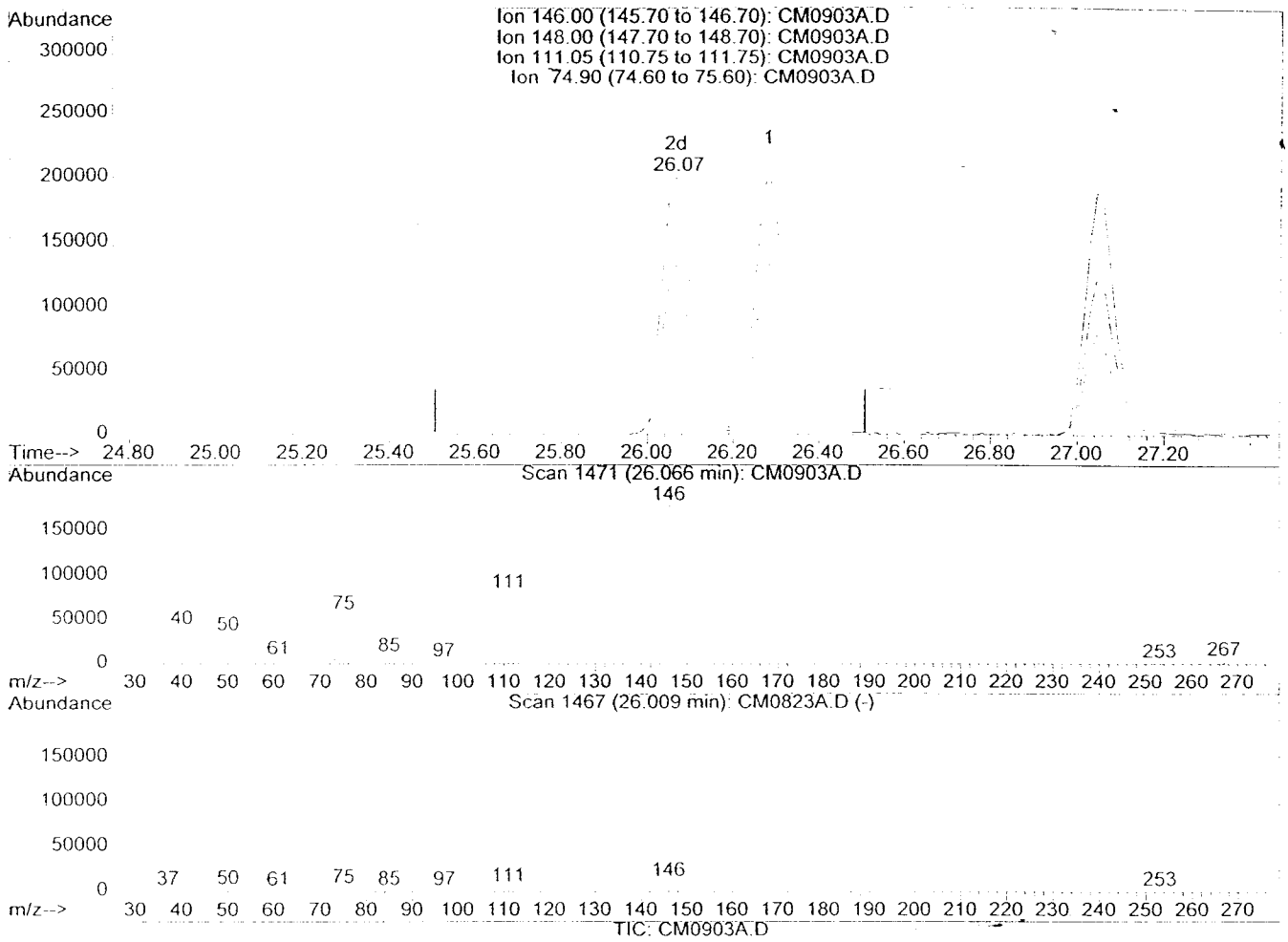
Ion	Exp%	Act%
146.00	100	100
148.00	66.40	65.41
111.05	44.40	38.54
74.90	35.60	28.49

before (wrong peak)

CM0903A.D TO14S.M Tue Sep 03 09:55:38 2002

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: 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



(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

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 original
Response via : Initial Calibration
DataAcq Meth : TO14S
IS QA File : D:\HPCHEM\1\DATA02\M0823A\CM0823A.D (23 Aug 2002 9:59)

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	12.17	78	1548564	281.74	ng		97

(#) = qualifier out of range (m) = manual integration
CM0903A.D TO14S.M Tue Sep 03 09:19:39 2002 Page 1

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

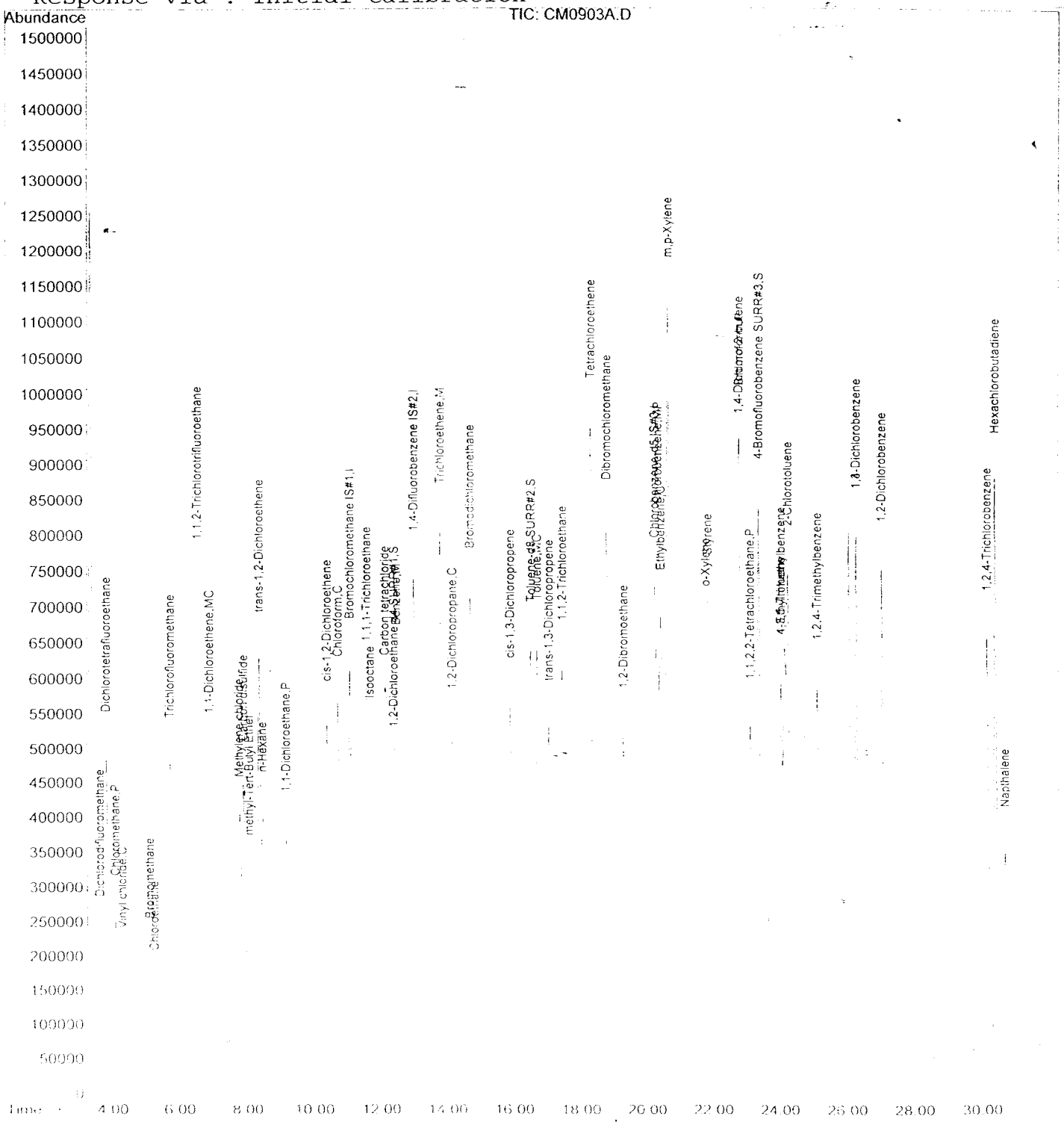
Compound	R.T.	QIon	Response	Conc Unit		Qvalue
28) Trichloroethene	13.79	130	868657	278.32 ng		93
29) 1,2-Dichloropropane	14.16	63	628224	270.76 ng		96
30) Bromodichloromethane	14.69	83	1461138	277.00 ng		99
31) cis-1,3-Dichloropropene	15.90	75	957569	271.68 ng		95
33) Toluene	16.70	92	954966	274.11 ng	#	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: DJH
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



Data File : D:\HPCHEM\1\DATA02\M0903A\MA154ABK.D Vial: 2
Acq On : 3 Sep 2002 9:25 Operator: BDH
Sample : VBLKMA\ DAILY METHOD BLANK Inst : MARILYN
Misc : Pi/Pf=1 MA154ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 3 9:57 2002 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%					

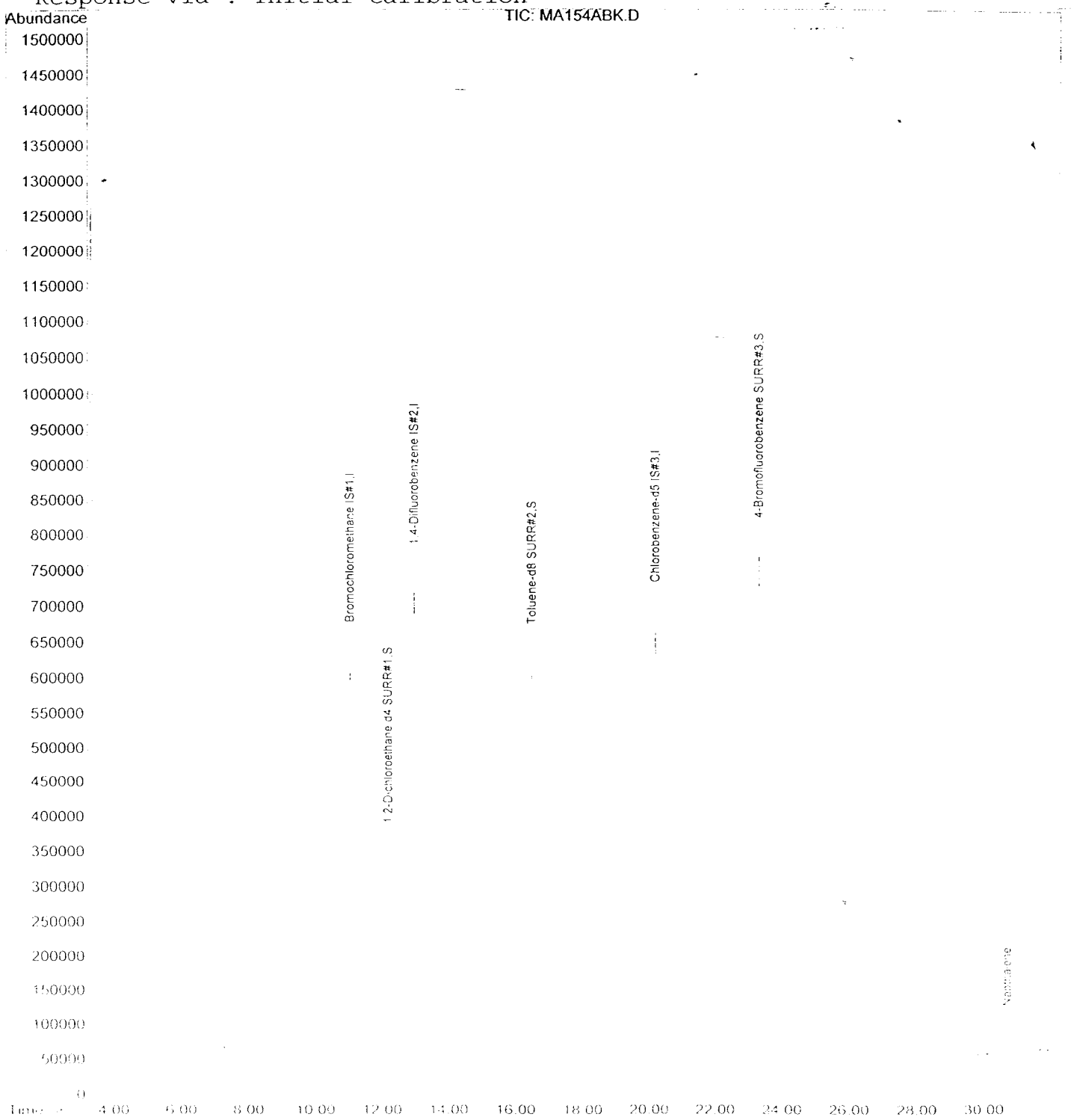
Target Compounds

					Qvalue
56) Napthalene	30.70	128	2193	0.72 ng PVSI #	64

(#) = qualifier out of range (m) = manual integration
MA154ABK.D TO14S.M Tue Sep 03 09:57:29 2002 Page 1

Data File : D:\HPCHEM\1\DATA02\M0903A\MA154ABK.D Vial: 2
Acq On : 3 Sep 2002 9:25 Operator: BDM
Sample : VBLKMA\ DAILY METHOD BLANK Inst : MARILYN
Misc : Pi/Pf=1 MA154ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 3 9:57 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



MA154ABK.D TO14S.M Tue Sep 03 09:57:30 2002 Page 2

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)

BDH 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

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

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%					

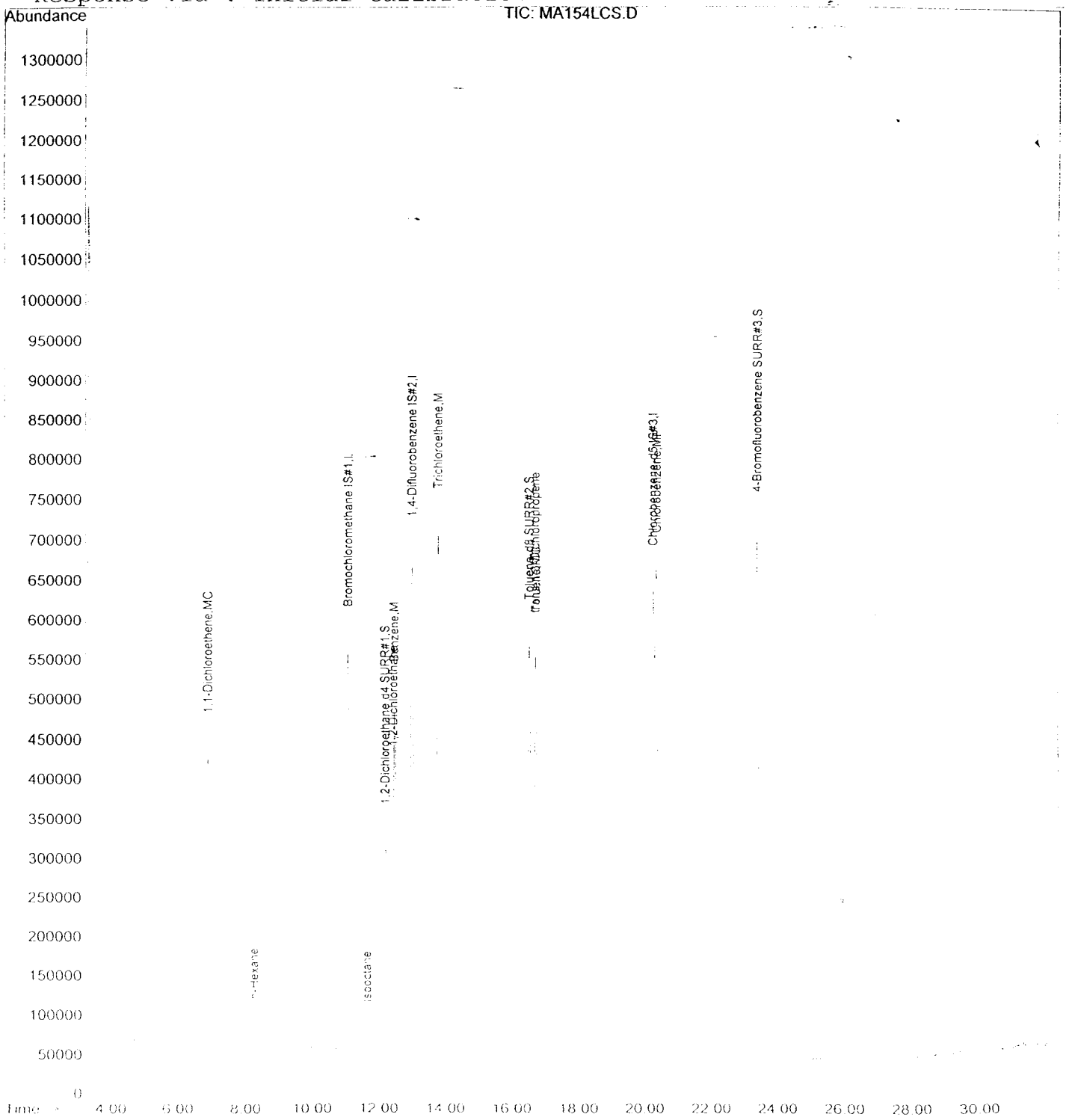
Target Compounds

						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
MA154LCS.D TO14S.M Tue Sep 03 10:36:23 2002 Page 1

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



Data File : D:\HPCHEM\1\DATA02\M0903A\86031.D
Acq On : 3 Sep 2002 11:53
Sample : 062SVEEA08210231\ 8603-1 ST. 500mls
Misc : Pf/Pi=2.33 MA154ABK
MS Integration Params: rteint.p
Quant Time: Sep 3 12:46 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	348013	250.00	ng	0.02 74.68%
26) 1,4-Difluorobenzene IS#2	13.01	114	1563580	250.00	ng	0.02 80.00%
36) Chlorobenzene-d5 IS#3	20.23	117	1157317	250.00	ng	-0.02 84.98%

System Monitoring Compounds

23) 1,2-Dichloroethane d4 SURR	12.20	65	415905	268.10	ng	0.00
Spiked Amount 250.000	Range	61 - 140	Recovery	=	107.24%	
32) Toluene-d8 SURR#2	16.50	98	1216003	263.47	ng	-0.02
Spiked Amount 250.000	Range	90 - 109	Recovery	=	105.39%	
46) 4-Bromofluorobenzene SURR#	23.36	95	942598	263.39	ng	0.00
Spiked Amount 250.000	Range	87 - 112	Recovery	=	105.36%	

Target Compounds

						Qvalue
41) m,p-Xylene	20.63	106	36533	0.09	ng ✓-J	95
42) o-Xylene	21.77	106	30570	0.08	ng ✓	88
48) 4-Ethyltoluene	24.02	105	62899	0.07	ng ✓-J	95
49) 1,3,5-Trimethylbenzene	24.16	105	189364	0.27	ng ✓	97
51) 1,2,4-Trimethylbenzene	25.12	105	44195	0.06	ng ✓-J	95

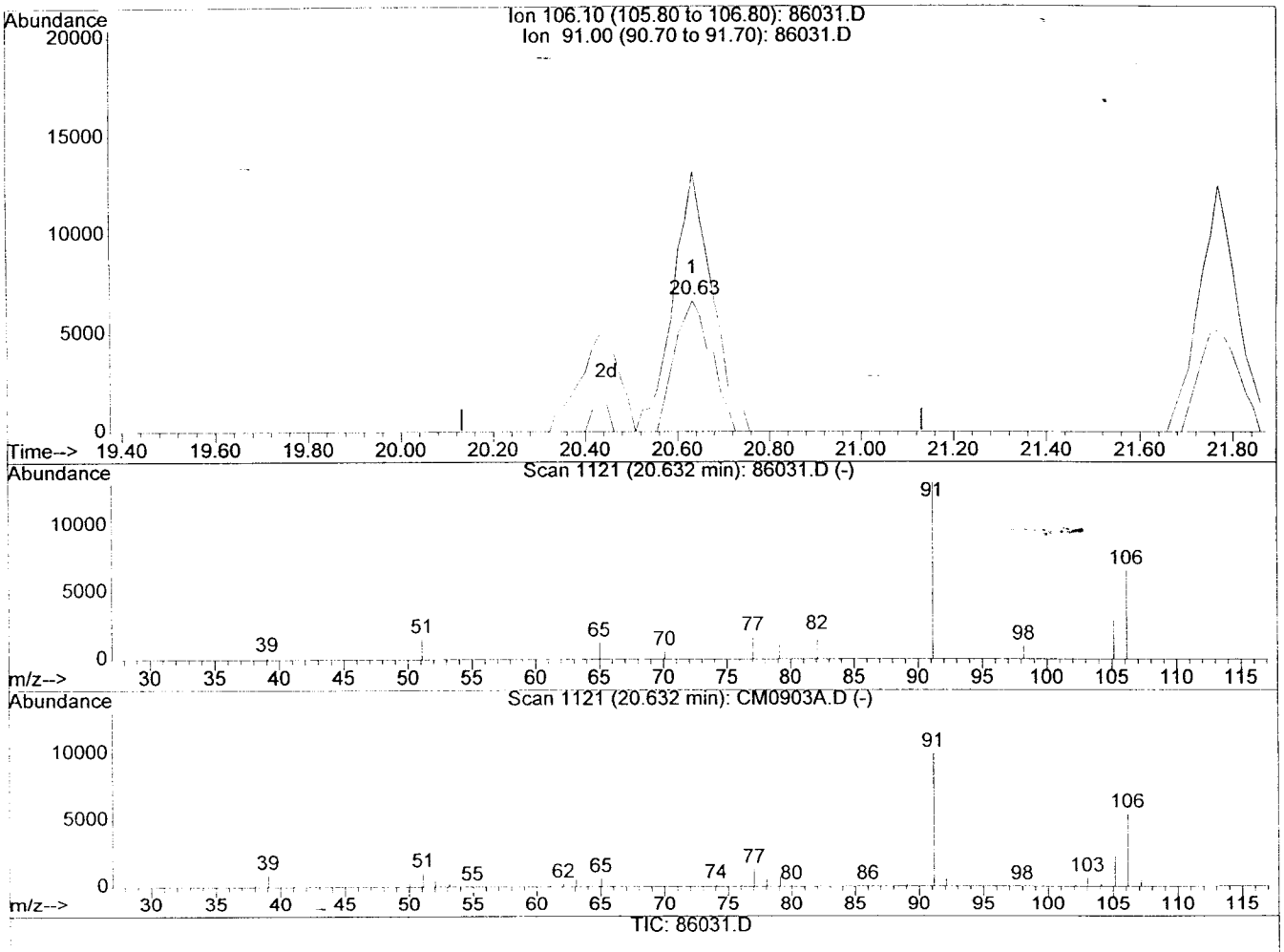
(#) = qualifier out of range (m) = manual integration
86031.D TO14S.M Tue Sep 03 12:47:06 2002 Page 1

Quantitation Report (QT Reg)

Data File : D:\HPCHEM\1\DATA02\M0903A\86031.D
Acq On : 3 Sep 2002 11:53
Sample : 062SVEEA08210231\ 8603-1 ST. 500mls
Misc : Pf/Pi=2.33 MA154ABK
MS Integration Params: rteint.p
Quant Time: Sep 3 12:44 2002

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 Sep 03 09:55:57 2002
Response via : Multiple Level Calibration



(41) m,p-Xylene

20.63min 18.76ng

response 36533

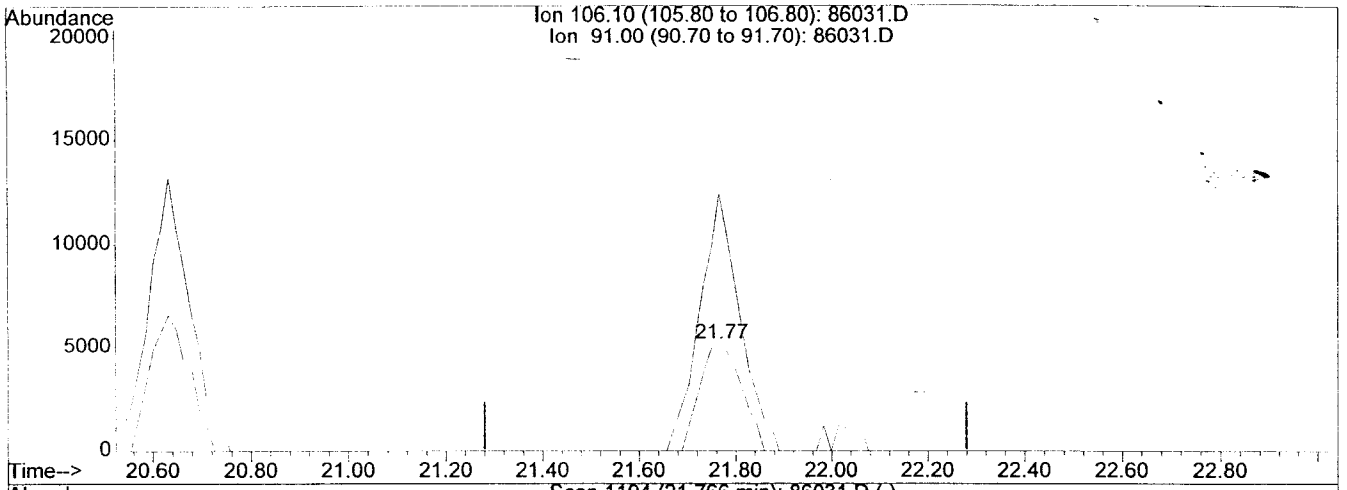
Ion	Exp%	Act%
106.10	100	100
91.00	205.30	213.29
0.00	0.00	0.00
0.00	0.00	0.00

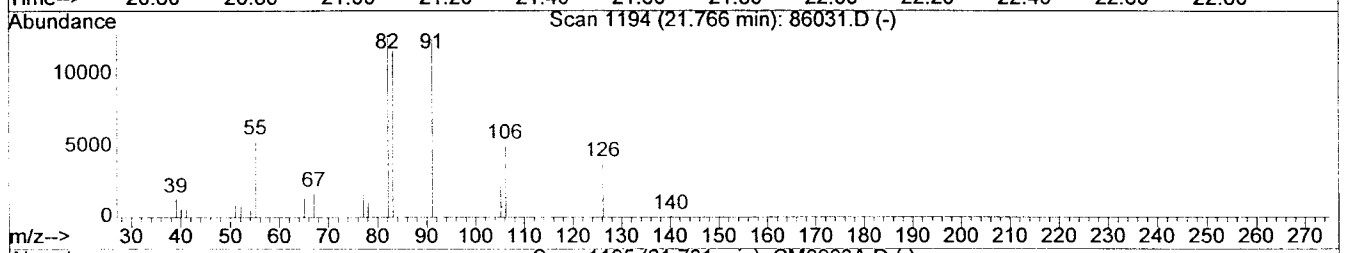
86031.D TO14S.M Tue Sep 03 12:45:21 2002

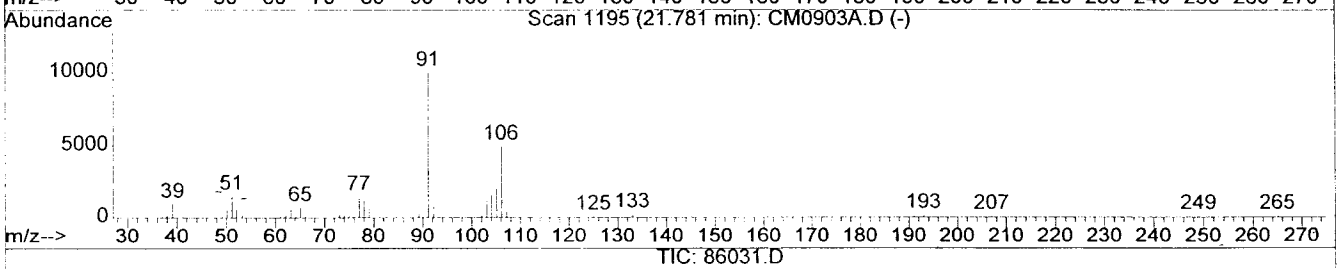
Quantitation Report (QedIt)

Data File : D:\HPCHEM\1\DATA02\M0903A\86031.D Vial: 1
Acq On : 3 Sep 2002 11:53 Operator: BDH
Sample : 062SVEEA08210231\ 8603-1 ST. 500mls Inst : MARILYN
Misc : Pf/Pi=2.33 MA154ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 3 12:44 2002 Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Tue Sep 03 09:55:57 2002
Response via : Multiple Level Calibration







TIC: 86031.D

(42) o-Xylene

21.77min 16.56ng

response 30570

Ion	Exp%	Act%
106.10	100	100
91.00	215.80	234.37
0.00	0.00	0.00
0.00	0.00	0.00

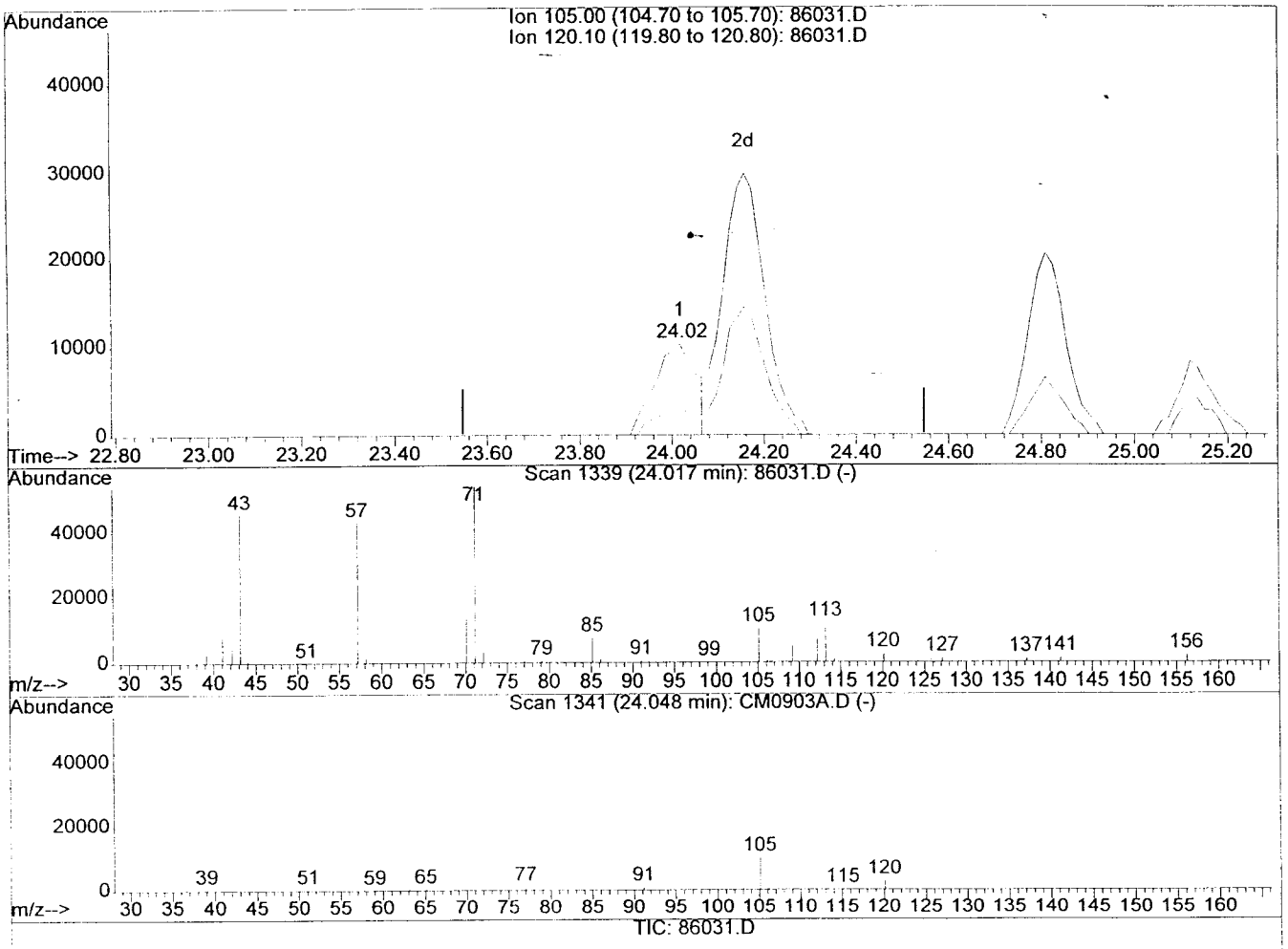
86031.D TO14S.M Tue Sep 03 12:45:32 2002

Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA02\M0903A\86031.D
Acq On : 3 Sep 2002 11:53
Sample : 062SVEEA08210231\ 8603-1 ST. 500mls
Misc : Pf/Pi=2.33 MA154ABK
MS Integration Params: rteint.p
Quant Time: Sep 3 12:45 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 : Tue Sep 03 09:55:57 2002
Response via : Multiple Level Calibration



(48) 4-Ethyltoluene

24.02min 13.60ng

response 62899

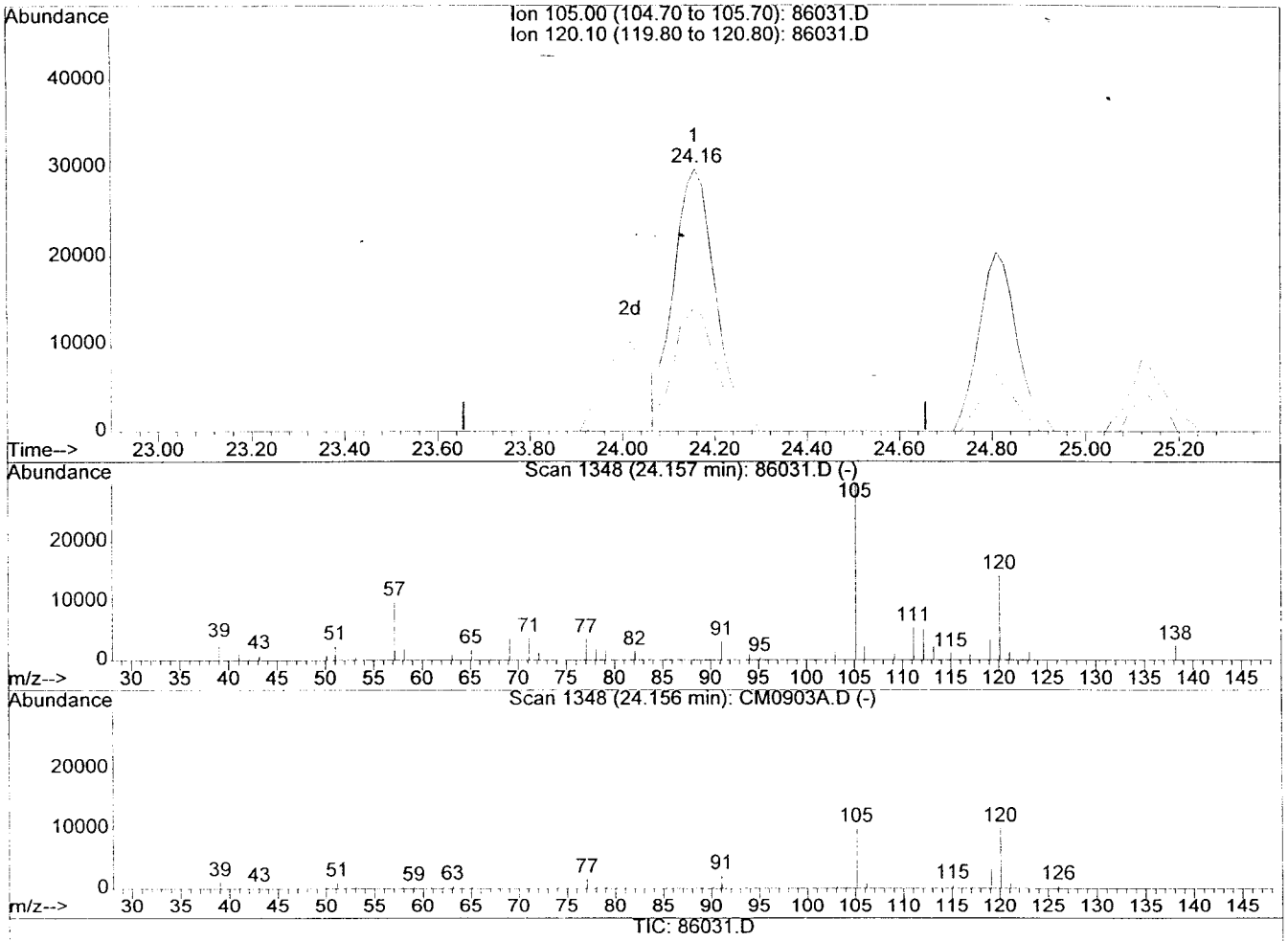
Ion	Exp%	Act%
105.00	100	100
120.10	28.80	26.21
0.00	0.00	0.00
0.00	0.00	0.00

86031.D TO14S.M Tue Sep 03 12:46:00 2002

Quantification Report (Qedit)

Data File : D:\HPCHEM\1\DATA02\M0903A\86031.D Vial: 1
Acq On : 3 Sep 2002 11:53 Operator: BDH
Sample : 062SVEEA08210231\ 8603-1 ST. 500mls Inst : MARILYN
Misc : Pf/Pi=2.33 MA154ABK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 3 12:45 2002 Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\TO14S.M (RTE Integrator)
Title : TO14
Last Update : Tue Sep 03 09:55:57 2002
Response via : Multiple Level Calibration



(49) 1,3,5-Trimethylbenzene

24.16min 53.20ng

response 189364

Ion	Exp%	Act%
105.00	100	100
120.10	46.70	48.60
0.00	0.00	0.00
0.00	0.00	0.00

86031.D TO14S.M Tue Sep 03 12:46:08 2002

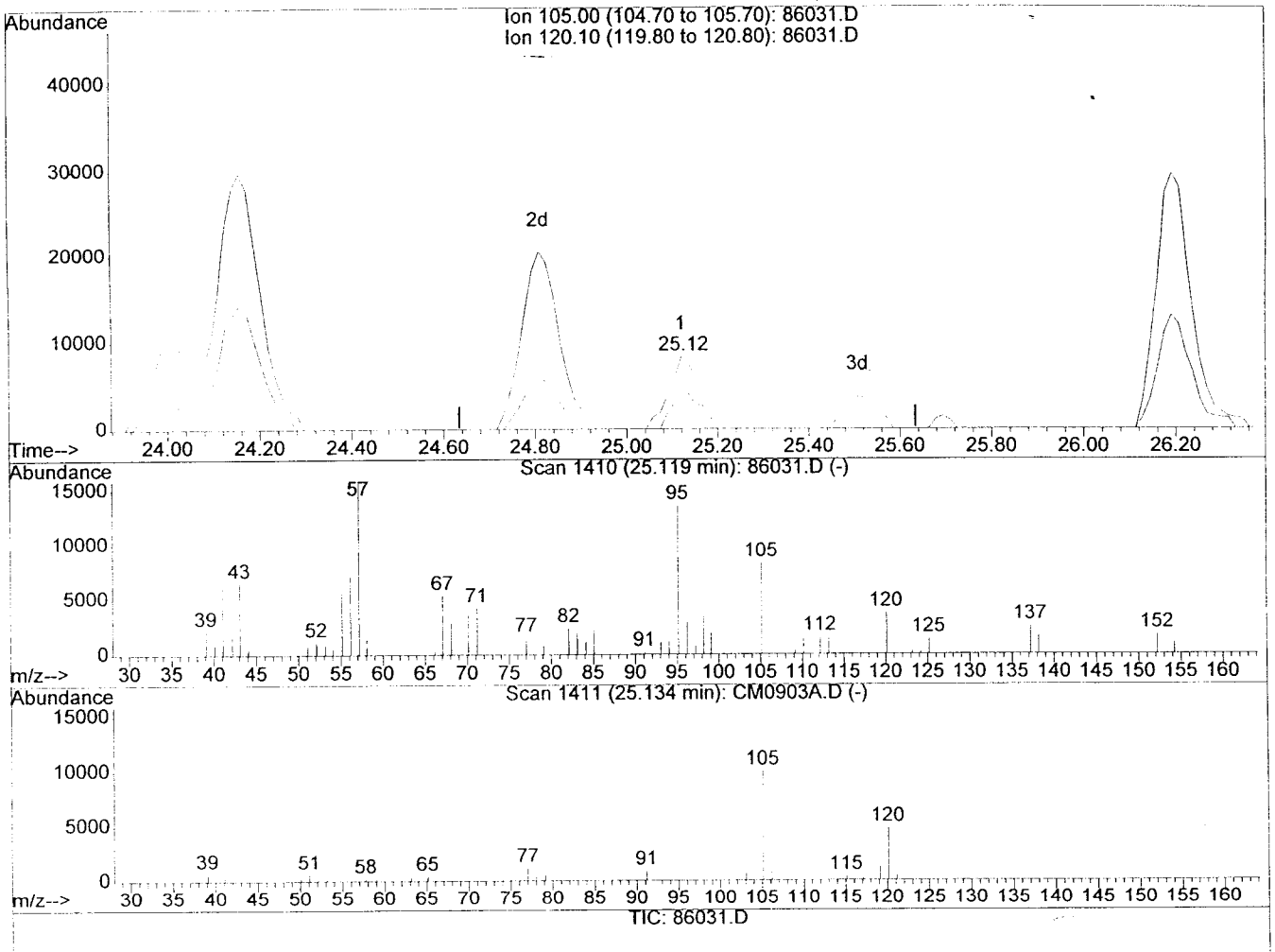
Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA02\M0903A\86031.D
Acq On : 3 Sep 2002 11:53
Sample : 062SVEEA08210231\ 8603-1 ST. 500mls
Misc : Pf/Pi=2.33 MA154ABK
MS Integration Params: rteint.p
Quant Time: Sep 3 12:46 2002

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 Sep 03 09:55:57 2002
Response via : Multiple Level Calibration



(51) 1,2,4-Trimethylbenzene

25.12min 12.35ng

response 44195

Ion	Exp%	Act%
105.00	100	100
120.10	44.90	41.58
0.00	0.00	0.00
0.00	0.00	0.00

86031.D TO14S.M Tue Sep 03 12:46:33 2002

Quantification Report

Data File : D:\HPCHEM\1\DATA02\M0903A\86031.D
Acq On : 3 Sep 2002 11:53
Sample : 062SVEEA08210231\ 8603-1 ST. 500mls
Misc : Pf/Pi=2.33 MA154ABK
MS Integration Params: rteint.p
Quant Time: Sep 3 12:26 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
Response via : Initial Calibration
DataAcq Meth : TO14S
IS QA File : D:\HPCHEM\1\DATA02\M0903A\CM0903A.D (3 Sep 2002 8:47)

original

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) Bromochloromethane IS#1	11.08	128	348013	250.00	ng	0.02 74.68%
26) 1,4-Difluorobenzene IS#2	13.01	114	1563580	250.00	ng	0.02 80.00%
36) Chlorobenzene-d5 IS#3	20.23	117	1157317	250.00	ng	-0.02 84.98%

System Monitoring Compounds

23) 1,2-Dichloroethane d4 SURR	12.20	65	415905	268.10	ng	0.00
Spiked Amount 250.000 Range 61 - 140 Recovery = 107.24%						
32) Toluene-d8 SURR#2	16.50	98	1216003	263.47	ng	-0.02
Spiked Amount 250.000 Range 90 - 109 Recovery = 105.39%						
46) 4-Bromofluorobenzene SURR#	23.36	95	942598	263.39	ng	0.00
Spiked Amount 250.000 Range 87 - 112 Recovery = 105.36%						

Target Compounds

						Qvalue
6) Bromomethane	5.15	94	7549	8.67	ng	# 9
9) 1,1,2-Trichlorotrifluoroet	6.55	151	932	0.31	ng	# 35
13) Carbon disulfide	7.89	76	9006	2.14	ng	# 74
16) n-Hexane	8.48	57	28470	16.27	ng	# 1
20) Isooctane	11.67	57	76666	13.61	ng	# 1
30) Bromodichloromethane	14.52	83	19684	4.66	ng	# 25
35) 1,1,2-Trichloroethane	17.60	97	11949	6.47	ng	# 14
38) Dibromochloromethane	18.89	127	7203	2.14	ng	# 82
39) Chlorobenzene	20.24	112	4949	1.21	ng	# 1
40) Ethylbenzene	20.45	106	3585	2.24	ng	# 1
41) m,p-Xylene	20.63	106	36533	18.76	ng	95
42) o-Xylene	21.77	106	30570	16.56	ng	88
45) 1,1,2,2-Tetrachloroethane	23.15	83	92106	30.50	ng	# 41
48) 4-Ethyltoluene	24.02	105	62899	13.60	ng	95
49) 1,3,5-Trimethylbenzene	24.16	105	189364	53.20	ng	97
50) 2-Chlorotoluene	24.16	91	22948	4.93	ng	# 47
51) 1,2,4-Trimethylbenzene	25.12	105	44195	12.35	ng	95

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

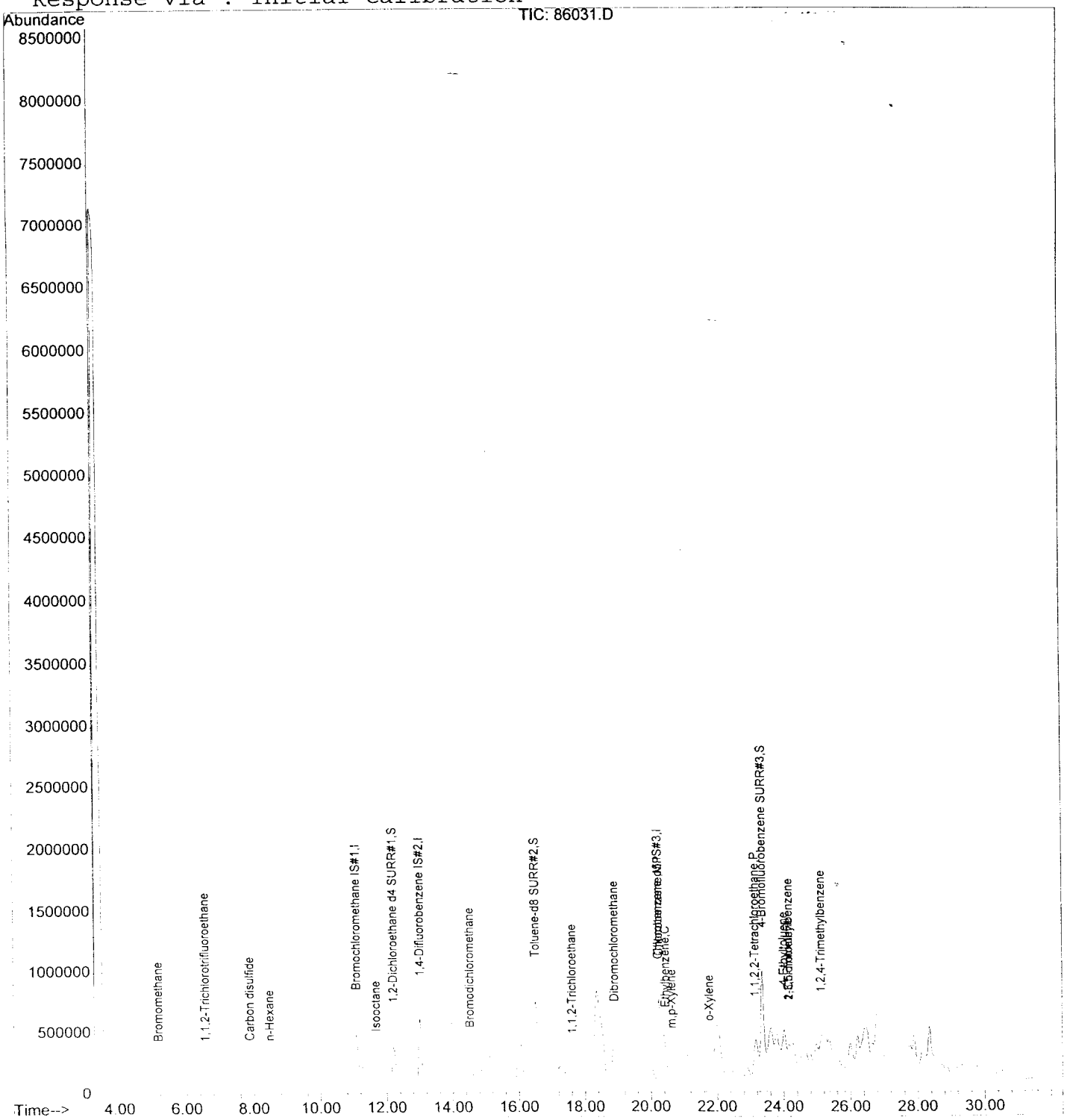
Quantification Report

Data File : D:\HPCHEM\1\DATA02\M0903A\86031.D
Acq On : 3 Sep 2002 11:53
Sample : 062SVEEA08210231\ 8603-1 ST. 500mls
Misc : Pf/Pi=2.33 MA154ABK
MS Integration Params: rteint.p
Quant Time: Sep 3 12:26 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



1014

STL - PENSACOLA, FL / GCMS

NEAT AND PURCHASED STOCK SOLUTIONS LOG BOOK

COMPOUND I.D. (SOL. NAME)	LOT #	SUPPLIER	PURITY (CONC.)	EXPIRATION DATE	# Ampoules ~~DATE OPENED~~	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	LA83973	Supelco	2000 µg/ml	6/2000	2	P-VN 1-3
Carbon Disulfide	LA8560	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 ketone	LA86031	Supelco	2000 µg/ml	12/2001	6	P-VN 1-13
Equity Iodomethane	LA88750	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 Ketone 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	LA8805	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	A016299	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
Tol4 Custom Mix	LA90774	Supelco	2000 µg/ml	7/1/2001	4	8-VN 1-26
VOA Short list Matrix Spike	LA87933	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.

001

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 4-1
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 Keytone	LA97428	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 Sur (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	Acc 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 Full list source	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: 1014 IS/Surr
Date: 4-11-02
Analyst: BDA

Standard I.D.: 8 -MSW34-1
Location: ~~GC/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 uls	50 ml	25 ug/ml
8-VW2-11 (Surr)	A019474	08/04	2500 ug/ml	500 uls	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-VB417	LB03455	3/03	2000	625	50	25 ug/ml
Toluene/Xylene 8-VB244	LB00103	12/02	↓	↓	↓	↓
MTBE 8-VW3-14	LA99466	11/02				
Styrene 8-VW3-15	LA98534	10/03				
[illegible] 8-VW3-13	LA98546	6/04				
[illegible] 8-VW3-16	LA97403	9/30/03		1000		

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	2.5 mls	25 ppm

Comments: expires 1/8/03

AY 7/25/02

Sol. Name: IS/SURR
Date: 7/25/02
Analyst: DO

Standard I.D.: 8 -MSW36-3
Location: Katarina's Freezer
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: BDH

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	1/2/03	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 C

Laboratory Analytical Reports for Groundwater Samples

PEL Laboratories, Inc.

Customer Name:	CH2M Hill
Date and Time Received:	9/25/2002 11:20:00 AM
Date Reported:	10/8/2002
Laboratory Submission Number/SDG:	2209178
Project:	Cecil Field 163151

Samples: The submission consisted of 17 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: Bill Canelos
Phone: W (904)-777-4812
F (904)-777-4262

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

Cross-Reference sheet for SDG 2209178-Cecil Field

	SDG	FieldID	SampleType	LabSampleID	SampleDescription
Cecil Field	2209178	062DUPQ302	N	220917815	062-DUP-Q3-02-32
Cecil Field	2209178	062EQBQ302	N	220917816	062-EQB-Q3-02-32
Cecil Field	2209178	062MW13Q302	N	220917803	062-MW13-Q3-02-32
Cecil Field	2209178	062MW20Q302	N	220917804	062-MW20-Q3-02-32
Cecil Field	2209178	062MW20Q302MS	MS	220917805	062-MW20-Q3-02-32
Cecil Field	2209178	062MW20Q302SD	SD	220917806	062-MW20-Q3-02-32
Cecil Field	2209178	062MW22Q302	N	220917807	062-MW22-Q3-02-32
Cecil Field	2209178	062MW4Q302	N	220917801	062-MW4-Q3-02-32
Cecil Field	2209178	062MW9Q302	N	220917802	062-MW9-Q3-02-32
Cecil Field	2209178	062TBQ302	N	220917817	062-TB-Q3-02-32
Cecil Field	2209178	062VEW2Q302	N	220917808	062-VEW2-Q3-02-32
Cecil Field	2209178	062VEW3Q302	N	220917809	062-VEW3-Q3-02-32
Cecil Field	2209178	062VEW4Q302	N	220917810	062-VEW4-Q3-02-32
Cecil Field	2209178	062VEW5Q302	N	220917811	062-VEW5-Q3-02-32
Cecil Field	2209178	062VEW6Q302	N	220917812	062-VEW6-Q3-02-32
Cecil Field	2209178	062VEW7Q302	N	220917813	062-VEW7-Q3-02-32
Cecil Field	2209178	062VEW8Q302	N	220917814	062-VEW8-Q3-02-32
Cecil Field	2209178	092702BLKA51	MB	092702BLKA51	092702BLKA51
Cecil Field	2209178	092702BLKA51MS	BS	092702BLKA51MS	092702BLKA51
Cecil Field	2209178	092702BLKA51SD	BD	092702BLKA51SD	092702BLKA51
Cecil Field	2209178	092802BLKA51	MB	092802BLKA51	092802BLKA51
Cecil Field	2209178	092802LCSA51	BS	092802LCSA51	092802LCSA51
Cecil Field	2209178	92602BLK01	MB	81419	92602BLK01
Cecil Field	2209178	92602LCS01	BS	81420	92602LCS01

Organics **1**
METHOD 8021 GC VOLATILE ORGANICS 4
Sample Data 8
QC Summary 24
Standards Data 39
METHOD 8310 HPLC PAH ORGANICS 51
Sample Data 55
QC Summary 70
Standards Data 79

Chain of Custody Documentation **89**

Addendum **95**
Raw Data Method 8021 103
Raw Data Method 8310 312

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 VOLATILE ORGANICS

METHOD 8021

081002 1343

CASE NARRATIVE
GC VOLATILE ORGANICS

PEL Lab Reference No./SDG: 2209178

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 8021/SW846

IV. PREPARATION

Water samples were prepared by SW846/5030 for EPA8021 volatiles analysis.
All aspects of sample preparation proceeded normally.

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)

An LCS was analyzed with the water samples in the analytical batch V5092802. All acceptance criteria were met.
An LCS/LCSDUP set was analyzed with the water samples in the analytical batch V5092702. All percent recovery and relative percent difference (RPD) 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.

CASE NARRATIVE
GC VOLATILE ORGANICS

PEL Lab Reference No./SDG: 2209178

Client: CH2M Hill

E. Internal Standards:

All acceptance criteria were met.

F. Samples:

Sample analysis proceeded normally. Client specified reporting limits were used. All target analytes were quantitated off of the PID detector.

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:** 10-08-02

VOLATILE ORGANIC CROSS REFERENCE TABLE

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field 163151

Lab Code : PEL Case No. SAS No: SDG No.: 2209178

Method: 8021

EPA Sample No	Lab Sample ID
062MW4Q302	220917801
062MW9Q302	220917802
062MW13Q302	220917803
062MW20Q302	220917804
062MW22Q302	220917807
062VEW2Q302	220917808
062VEW3Q302	220917809
062VEW4Q302	220917810
062VEW5Q302	220917811
062VEW6Q302	220917812
062VEW7Q302	220917813
062VEW8Q302	220917814
062DUPQ302	220917815
062EQBQ302	220917816
062TBQ302	220917817

081002 1343

Sample Data

081002 1343

1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

062MW4Q302

Lab Name: PEL Laboratories, Inc.

Contract: Cecil Field 163151

Lab Code : PEL Case No.

SAS No:

SDG No.: 2209178

Matrix: WATER

Lab Sample ID: 220917801

Lab File ID: 178-1.D

Sample wt/vol: 5 Units: ML

Date Received: 09/25/02

Concentrated Extract Volume: 5

Date Extracted:

Level:(low/med) LOW

Date Analyzed: 09/27/02 Time: 1309

PercentSolids: 0 decanted :

Dilution Factor: 1

Extraction: PURGETRAP

Station ID: CEF-293-4 Method: 8021

GPC Cleanup : (Y/N) pH:

Column(1): RTX-502.2 ID: 0.53 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
71-43-2	Benzene	0.5	U
1634-04-4	MTBE	0.57	U
108-88-3	Toluene	0.5	U
100-41-4	Ethylbenzene	0.5	U
511-39-00	p,m-Xylene	1	U
95-47-6	o-Xylene	0.5	U

1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name:	PEL Laboratories, Inc.	Contract:	Cecil Field 163151
			062MW9Q302
Lab Code :	PEL	Case No.	
SAS No:		SDG No.:	2209178
Matrix:	WATER	Lab Sample ID:	220917802
Lab File ID:	178-2.D	Sample wt/vol:	5
Units:	ML	Date Received:	09/25/02
Concentrated Extract Volume:	5	Date Extracted:	
Level:(low/med)	LOW	Date Analyzed:	09/27/02
Time:	1353	PercentSolids:	0
decanted :		Dilution Factor:	1
Extraction:	PURGETRAP	Station ID:	CEF-293-9
Method:	8021	GPC Cleanup : (Y/N)	
pH:		Column(1):	RTX-502.2
ID:	0.53 (mm)		

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
71-43-2	Benzene	0.5	U
1634-04-4	MTBE	0.57	U
108-88-3	Toluene	0.5	U
100-41-4	Ethylbenzene	0.5	U
511-39-00	p,m-Xylene	1	U
95-47-6	o-Xylene	0.5	U

081002 1343

Form I

1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

062MW13Q302

Lab Name: PEL Laboratories, Inc.

Contract: Cecil Field 163151

Lab Code : PEL Case No.

SAS No:

SDG No.: 2209178

Matrix: WATER

Lab Sample ID: 220917803

Lab File ID: 178-3.D

Sample wt/vol: 5 Units: ML

Date Received: 09/25/02

Concentrated Extract Volume: 5

Date Extracted:

Level:(low/med) LOW

Date Analyzed: 09/27/02 Time: 1438

PercentSolids: 0 decanted :

Dilution Factor: 1

Extraction: PURGETRAP

Station ID: CEF-293-13 Method: 8021

GPC Cleanup : (Y/N) pH:

Column(1): RTX-502.2 ID: 0.53 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
71-43-2	Benzene	0.5	U
1634-04-4	MTBE	0.57	U
108-88-3	Toluene	0.5	U
100-41-4	Ethylbenzene	0.4	J
511-39-00	p,m-Xylene	1	U
95-47-6	o-Xylene	0.17	J

081002 1343

Form I

1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

062MW20Q302

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field 163151

Lab Code : PEL Case No. SAS No: SDG No.: 2209178

Matrix: WATER Lab Sample ID: 220917804 Lab File ID: 178-4R.D

Sample wt/vol: 5 Units: ML Date Received: 09/25/02

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 09/28/02 Time: 1508

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID: CEF-293-20 Method: 8021

GPC Cleanup : (Y/N) pH:

Column(1): RTX-502.2 ID: 0.53 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	***ANALYTE***	***RESULT***	***Q***
71-43-2	Benzene	0.55	
1634-04-4	MTBE	0.57	U
108-88-3	Toluene	0.24	J
100-41-4	Ethylbenzene	0.3	J
511-39-00	p,m-Xylene	1	U
95-47-6	o-Xylene	0.34	J

081002 1343

Form I

1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

062MW22Q302

Lab Name: PEL Laboratories, Inc.

Contract: Cecil Field 163151

Lab Code : PEL

Case No.

SAS No:

SDG No.: 2209178

Matrix: WATER

Lab Sample ID: 220917807

Lab File ID: 178-7.D

Sample wt/vol: 5

Units: ML

Date Received: 09/25/02

Concentrated Extract Volume: 5

Date Extracted:

Level:(low/med) LOW

Date Analyzed: 09/27/02

Time: 1735

PercentSolids: 0

decanted :

Dilution Factor: 1

Extraction: PURGETRAP

Station ID: CEF-293-22

Method: 8021

GPC Cleanup : (Y/N)

pH:

Column(1): RTX-502.2

ID: 0.53

(mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
71-43-2	Benzene	0.35	J
1634-04-4	MTBE	0.57	U
108-88-3	Toluene	0.5	U
100-41-4	Ethylbenzene	0.5	U
511-39-00	p,m-Xylene	1	U
95-47-6	o-Xylene	0.5	U

081002 1343

Form I

1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

062VEW2Q302

Lab Name: PEL Laboratories, Inc.

Contract: Cecil Field 163151

Lab Code : PEL Case No.

SAS No:

SDG No.: 2209178

Matrix: WATER

Lab Sample ID: 220917808

Lab File ID: 178-8.D

Sample wt/vol: 5 Units: ML

Date Received: 09/25/02

Concentrated Extract Volume: 5

Date Extracted:

Level:(low/med) LOW

Date Analyzed: 09/27/02 Time: 1943

PercentSolids: 0 decanted :

Dilution Factor: 1

Extraction: PURGETRAP

Station ID: VEW-2 Method: 8021

GPC Cleanup : (Y/N) pH:

Column(1): RTX-502.2 ID: 0.53 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
71-43-2	Benzene	0.5	U
1634-04-4	MTBE	0.57	U
108-88-3	Toluene	0.5	U
100-41-4	Ethylbenzene	0.5	U
511-39-00	p,m-Xylene	1	U
95-47-6	o-Xylene	0.21	J

081002 1343

Form I

1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name:	PEL Laboratories, Inc.	Contract:	Cecil Field 163151
			062VEW3Q302
Lab Code :	PEL Case No.	SAS No:	SDG No.: 2209178
Matrix:	WATER	Lab Sample ID:	220917809 Lab File ID: 178-9.D
Sample wt/vol:	5 Units: ML	Date Received:	09/25/02
Concentrated Extract Volume:	5	Date Extracted:	
Level:(low/med)	LOW	Date Analyzed:	09/27/02 Time: 2026
PercentSolids:	0 decanted :	Dilution Factor:	1
Extraction:	PURGETRAP	Station ID:	VEW-3 Method: 8021
GPC Cleanup : (Y/N)	pH:		
Column(1):	RTX-502.2 ID: 0.53 (mm)		
CONCENTRATION UNITS:	UG/L		

CAS NO.	*ANALYTE*	*RESULT*	*Q*
71-43-2	Benzene	0.5	U
1634-04-4	MTBE	0.57	U
108-88-3	Toluene	0.5	U
100-41-4	Ethylbenzene	0.5	U
511-39-00	p,m-Xylene	1	U
95-47-6	o-Xylene	0.5	U

1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

062VEW4Q302

Lab Name: PEL Laboratories, Inc.

Contract: Cecil Field 163151

Lab Code : PEL

Case No.

SAS No:

SDG No.: 2209178

Matrix: WATER

Lab Sample ID: 220917810

Lab File ID: 178-10.D

Sample wt/vol: 5

Units: ML

Date Received: 09/25/02

Concentrated Extract Volume: 5

Date Extracted:

Level:(low/med) LOW

Date Analyzed: 09/27/02

Time: 2108

PercentSolids: 0

decanted :

Dilution Factor: 1

Extraction: PURGETRAP

Station ID: VEW-4

Method: 8021

GPC Cleanup : (Y/N)

pH:

Column(1): RTX-502.2

ID: 0.53

(mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
71-43-2	Benzene	0.5	U
1634-04-4	MTBE	0.57	U
108-88-3	Toluene	0.5	U
100-41-4	Ethylbenzene	0.5	U
511-39-00	p,m-Xylene	1	U
95-47-6	o-Xylene	0.5	U

081002 1343

Form I

1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

062VEW5Q302

Lab Name: PEL Laboratories, Inc.

Contract: Cecil Field 163151

Lab Code : PEL Case No.

SAS No:

SDG No.: 2209178

Matrix: WATER

Lab Sample ID: 220917811

Lab File ID: 178-11.D

Sample wt/vol: 5 Units: ML

Date Received: 09/25/02

Concentrated Extract Volume: 5

Date Extracted:

Level:(low/med) LOW

Date Analyzed: 09/27/02 Time: 2152

PercentSolids: 0 decanted :

Dilution Factor: 1

Extraction: PURGETRAP

Station ID: VEW-5 Method: 8021

GPC Cleanup : (Y/N) pH:

Column(1): RTX-502.2 ID: 0.53 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
71-43-2	Benzene	0.5	U
1634-04-4	MTBE	0.57	U
108-88-3	Toluene	0.5	U
100-41-4	Ethylbenzene	0.5	U
511-39-00	p,m-Xylene	1	U
95-47-6	o-Xylene	0.5	U

1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name:	PEL Laboratories, Inc.	Contract:	Cecil Field 163151
		EPA Sample No.	062VEW6Q302
Lab Code :	PEL	Case No.	
SAS No:		SDG No.:	2209178
Matrix:	WATER	Lab Sample ID:	220917812
Lab File ID:	178-12.D	Sample wt/vol:	5
Units:	ML	Date Received:	09/25/02
Concentrated Extract Volume:	5	Date Extracted:	
Level:(low/med)	LOW	Date Analyzed:	09/27/02
Time:	2234	PercentSolids:	0
decanted :		Dilution Factor:	1
Extraction:	PURGETRAP	Station ID:	VEW-6
Method:	8021	GPC Cleanup : (Y/N)	
pH:		Column(1):	RTX-502.2
ID:	0.53	(mm)	
CONCENTRATION UNITS:	UG/L		

CAS NO.	*ANALYTE*	*RESULT*	*Q*
71-43-2	Benzene	0.5	U
1634-04-4	MTBE	0.57	U
108-88-3	Toluene	0.5	U
100-41-4	Ethylbenzene	0.5	U
511-39-00	p,m-Xylene	1	U
95-47-6	o-Xylene	0.5	U

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Form I

1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

062VEW7Q302

Lab Name: PEL Laboratories, Inc.

Contract: Cecil Field 163151

Lab Code : PEL

Case No.

SAS No:

SDG No.: 2209178

Matrix: WATER

Lab Sample ID: 220917813

Lab File ID: 178-13R.D

Sample wt/vol: 5

Units: ML

Date Received: 09/25/02

Concentrated Extract Volume: 5

Date Extracted:

Level:(low/med) LOW

Date Analyzed: 09/28/02

Time: 1847

PercentSolids: 0

decanted :

Dilution Factor: 1

Extraction: PURGETRAP

Station ID: VEW-7

Method: 8021

GPC Cleanup : (Y/N)

pH:

Column(1): RTX-502.2

ID: 0.53

(mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
71-43-2	Benzene	0.5	U
1634-04-4	MTBE	0.57	U
108-88-3	Toluene	0.5	U
100-41-4	Ethylbenzene	0.5	U
511-39-00	p,m-Xylene	1	U
95-47-6	o-Xylene	0.5	U

1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

062VEW8Q302

Lab Name: PEL Laboratories, Inc.

Contract: Cecil Field 163151

Lab Code : PEL Case No.

SAS No:

SDG No.: 2209178

Matrix: WATER

Lab Sample ID: 220917814

Lab File ID: 178-14.D

Sample wt/vol: 5 Units: ML

Date Received: 09/25/02

Concentrated Extract Volume: 5

Date Extracted:

Level:(low/med) LOW

Date Analyzed: 09/28/02 Time: 0000

PercentSolids: 0 decanted :

Dilution Factor: 1

Extraction: PURGETRAP

Station ID: VEW-8 Method: 8021

GPC Cleanup : (Y/N) pH:

Column(1): RTX-502.2 ID: 0.53 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
71-43-2	Benzene	0.5	U
1634-04-4	MTBE	0.57	U
108-88-3	Toluene	0.5	U
100-41-4	Ethylbenzene	0.5	U
511-39-00	p,m-Xylene	1	U
95-47-6	o-Xylene	0.5	U

1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

062DUPQ302

Lab Name: PEL Laboratories, Inc.

Contract: Cecil Field 163151

Lab Code : PEL Case No.

SAS No:

SDG No.: 2209178

Matrix: WATER

Lab Sample ID: 220917815

Lab File ID: 178-15.D

Sample wt/vol: 5 Units: ML

Date Received: 09/25/02

Concentrated Extract Volume: 5

Date Extracted:

Level:(low/med) LOW

Date Analyzed: 09/28/02 Time: 1637

PercentSolids: 0 decanted :

Dilution Factor: 1

Extraction: PURGETRAP

Station ID: Duplicate Method: 8021

GPC Cleanup : (Y/N) pH:

Column(1): RTX-502.2 ID: 0.53 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
71-43-2	Benzene	0.5	U
1634-04-4	MTBE	0.57	U
108-88-3	Toluene	0.5	U
100-41-4	Ethylbenzene	0.5	U
511-39-00	p,m-Xylene	1	U
95-47-6	o-Xylene	0.5	U

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Form I

1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

062EQBQ302

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field 163151

Lab Code : PEL Case No. SAS No: SDG No.: 2209178

Matrix: WATER Lab Sample ID: 220917816 Lab File ID: 178-16.D

Sample wt/vol: 5 Units: ML Date Received: 09/25/02

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 09/28/02 Time: 1804

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID: Equipment Blank Method: 8021

GPC Cleanup : (Y/N) pH:

Column(1): RTX-502.2 ID: 0.53 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
71-43-2	Benzene	0.5	U
1634-04-4	MTBE	0.57	U
108-88-3	Toluene	0.21	J
100-41-4	Ethylbenzene	0.5	U
511-39-00	p,m-Xylene	1	U
95-47-6	o-Xylene	0.5	U

1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

062TBQ302

Lab Name: PEL Laboratories, Inc.

Contract: Cecil Field 163151

Lab Code : PEL Case No.

SAS No:

SDG No.: 2209178

Matrix: WATER

Lab Sample ID: 220917817

Lab File ID: 178-17.D

Sample wt/vol: 5 Units: ML

Date Received: 09/25/02

Concentrated Extract Volume: 5

Date Extracted:

Level:(low/med) LOW

Date Analyzed: 09/27/02 Time: 1607

PercentSolids: 0 decanted :

Dilution Factor: 1

Extraction: PURGETRAP

Station ID: Trip Blank Method: 8021

GPC Cleanup : (Y/N) pH:

Column(1): RTX-502.2 ID: 0.53 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
71-43-2	Benzene	0.5	U
1634-04-4	MTBE	0.57	U
108-88-3	Toluene	0.31	J
100-41-4	Ethylbenzene	0.5	U
511-39-00	p,m-Xylene	1	U
95-47-6	o-Xylene	0.5	U

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Form I

QC Summary

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1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name:	PEL Laboratories, Inc.	Contract:	Cecil Field 163151
EPA Sample No.	092702BLKA51		
Lab Code :	PEL	Case No.	
SAS No:		SDG No.:	2209178
Matrix:	WATER	Lab Sample ID:	092702BLKA51
Lab File ID:	BLK51.D		
Sample wt/vol:	5	Units:	ML
Date Received:	09/27/02		
Concentrated Extract Volume:	5	Date Extracted:	
Level:(low/med)	LOW	Date Analyzed:	09/27/02
Time:	1022		
PercentSolids:	0	decanted :	
Dilution Factor:	1		
Extraction:	PURGETRAP	Station ID:	
Method:	8021		
GPC Cleanup : (Y/N)		pH:	
Column(1):	RTX-502.2	ID:	0.53 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
71-43-2	Benzene	0.5	U
1634-04-4	MTBE	0.57	U
108-88-3	Toluene	0.5	U
100-41-4	Ethylbenzene	0.5	U
511-39-00	p,m-Xylene	1	U
95-47-6	o-Xylene	0.5	U

081002 1343

Form I

1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

092802BLKA51

Lab Name: PEL Laboratories, Inc.

Contract: Cecil Field 163151

Lab Code : PEL

Case No.

SAS No:

SDG No.: 2209178

Matrix: WATER

Lab Sample ID: 092802BLKA51

Lab File ID: BLK51.D

Sample wt/vol: 5

Units: ML

Date Received: 09/28/02

Concentrated Extract Volume: 5

Date Extracted:

Level:(low/med) LOW

Date Analyzed: 09/28/02

Time: 1254

PercentSolids: 0

decanted :

Dilution Factor: 1

Extraction: PURGETRAP

Station ID:

Method: 8021

GPC Cleanup : (Y/N)

pH:

Column(1): RTX-502.2

ID: 0.53 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
71-43-2	Benzene	0.5	U
1634-04-4	MTBE	0.57	U
108-88-3	Toluene	0.5	U
100-41-4	Ethylbenzene	0.5	U
511-39-00	p,m-Xylene	1	U
95-47-6	o-Xylene	0.5	U

081002 1343

Form I

VOLATILE ORGANIC METHOD BLANK SUMMARY

EPA Sample No.: 092702BLKA51

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field 163151

Lab Code: PEL Case No. SAS No: SDG No.: 2209178

Lab File ID: BLK51.D Lab Sample ID: 092702BLKA51

Instrument ID: VGC5 Date Extracted:

Matrix: WATER Date Analyzed: 09/27/02

Level:(low/med) LOW Time Analyzed: 1022

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	092702BLKA51MS	092702BLKA51MS	BLK51MS.D	09/27/02	1140
2	092702BLKA51SD	092702BLKA51SD	BLK51SD.D	09/27/02	1224
3	062MW4Q302	220917801	178-1.D	09/27/02	1309
4	062MW9Q302	220917802	178-2.D	09/27/02	1353
5	062MW13Q302	220917803	178-3.D	09/27/02	1438
6	062TBQ302	220917817	178-17.D	09/27/02	1607
7	062MW22Q302	220917807	178-7.D	09/27/02	1735
8	062VEW2Q302	220917808	178-8.D	09/27/02	1943
9	062VEW3Q302	220917809	178-9.D	09/27/02	2026
10	062VEW4Q302	220917810	178-10.D	09/27/02	2108
11	062VEW5Q302	220917811	178-11.D	09/27/02	2152
12	062VEW6Q302	220917812	178-12.D	09/27/02	2234
13	062VEW8Q302	220917814	178-14.D	09/28/02	0000

COMMENTS:

4

VOLATILE ORGANIC METHOD BLANK SUMMARY

EPA Sample No.

092802BLKA51

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field 163151

Lab Code : PEL Case No. SAS No: SDG No.: 2209178

Lab File ID: BLK51.D Lab Sample ID: 092802BLKA51

Instrument ID: VGC5 Date Extracted:

Matrix: WATER Date Analyzed: 09/28/02

Level:(low/med) LOW Time Analyzed: 1254

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	092802LCSA51	092802LCSA51	LCS51.D	09/28/02	1210
2	062MW20Q302MS	220917805	178-5MS.D	09/28/02	1339
3	062MW20Q302SD	220917806	178-6SD.D	09/28/02	1424
4	062MW20Q302	220917804	178-4R.D	09/28/02	1508
5	062DUPQ302	220917815	178-15.D	09/28/02	1637
6	062EQBQ302	220917816	178-16.D	09/28/02	1804
7	062VEW7Q302	220917813	178-13R.D	09/28/02	1847

COMMENTS:

2A

WATER VOLATILE ORGANIC SURROGATE RECOVERY

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field 163151

Lab Code : PEL Case No. SAS No: SDG NO.: 2209178

Column(1): RTX-502.2 ID: 0.53 (mm)

EPA Sample NO.	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	TOT OUT
062DUPQ302	95.0						0
062EQBQ302	92.7						0
062MW13Q302	94.3						0
062MW20Q302	100.7						0
062MW20Q302MS	100.0						0
062MW20Q302SD	98.0						0
062MW22Q302	99.7						0
062MW4Q302	97.0						0
062MW9Q302	89.3						0
062TBQ302	99.7						0
062VEW2Q302	98.3						0
062VEW3Q302	99.0						0
062VEW4Q302	98.0						0
062VEW5Q302	92.3						0
062VEW6Q302	93.3						0
062VEW7Q302	95.0						0
062VEW8Q302	97.7						0
092702BLKA51	91.3						0
092702BLKA51MS	93.3						0
092702BLKA51SD	103.7						0
092802BLKA51	92.7						0
092802LCSA51	98.0						0

Control Limits

S1 = 4-Bromofluorobenzene 71 - 124

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

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8A

VOLATILE ORGANIC INTERNAL STANDARD AREA SUMMARY

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field 163151

Lab Code : PEL Case No. SAS No: SDG No.: 2209178

Lab File ID (Standard): 30PPB.D Date Analyzed: 9/7/2002

Instrument ID: VGC5 Time Analyzed: 14:59

GC Column: RTX-502.2 ID: 0.53 (mm)

Matrix: (soil/water) WATER Heated Purge: (Y/N) NO

		IS1 AREA #	RT	IS2 AREA #	RT	IS3 AREA #	RT
	MID CAL STD	710016	14.46				
	UPPER LIMIT	1420032	14.96				
	LOWER LIMIT	355008	13.96				
	EPA SAMPLE NO.						
1	092702BLKA51	547699	14.43				
2	092702BLKA51MS	596333	14.44				
3	092702BLKA51SD	556001	14.44				
4	062MW4Q302	520952	14.46				
5	062MW9Q302	440162	14.46				
6	062MW13Q302	536266	14.46				
7	062TBQ302	530106	14.47				
8	062MW22Q302	500860	14.46				
9	062VEW2Q302	531871	14.43				
10	062VEW3Q302	527791	14.43				
11	062VEW4Q302	533561	14.43				
12	062VEW5Q302	529134	14.44				
13	062VEW6Q302	372953	14.43				
14	062VEW8Q302	445776	14.44				
15	092802LCSA51	609159	14.45				
16	092802BLKA51	584224	14.46				
17	062MW20Q302MS	585511	14.46				
18	062MW20Q302SD	495969	14.46				
19	062MW20Q302	586981	14.46				
20	062DUPQ302	549717	14.46				
21	062EQBQ302	567644	14.45				
22	062VEW7Q302	502705	14.44				

IS1 = 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

081002 1343

FORM VIII

VOLATILE ORGANIC ANALYTICAL SEQUENCE

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field 163151

Lab Code : PEL Case No. SAS No: SDG No.: 2209178

GC Column: RTX-502.2 ID: 0.53 (mm) Init. Calib. Date: 09/07/02

Instrument ID: VGC5

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 29.02 S2 :

	CLIENT SAMPLE NO	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #
1	STD44883	500PPT	09/07/02	1030	29.03	
2	STD44873	1PPB	09/07/02	1113	29.03	
3	STD44878	2PPB	09/07/02	1156	29.03	
4	STD44886	5PPB	09/07/02	1240	29.02	
5	STD44872	10PPB	09/07/02	1323	29.02	
6	STD44874	20PPB	09/07/02	1407	29.01	
7	STD44879	30PPB	09/07/02	1459	29.01	
8	STD44881	40PPB	09/07/02	1625	29.01	
9	STD44884	50PPB	09/07/02	1752	29.01	
10	STD44870	100PPB	09/07/02	1918	29.01	
11	SSC44858	090407SECA51	09/07/02	2044	28.98	
12	ZZZZZZ	ZZZZZZ	09/27/02	0723		
13	CCV48792	092702CCVA52	09/27/02	0806	28.94	
14	ZZZZZZ	ZZZZZZ	09/27/02	0939		
15	092702BLKA51	092702BLKA51	09/27/02	1022	28.95	
16	092702BLKA51MS	092702BLKA51MS	09/27/02	1140	28.96	
17	092702BLKA51SD	092702BLKA51SD	09/27/02	1224	28.96	
18	062MW4Q302	220917801	09/27/02	1309	28.98	
19	062MW9Q302	220917802	09/27/02	1353	28.99	
20	062MW13Q302	220917803	09/27/02	1438	28.98	
21	ZZZZZZ	ZZZZZZ	09/27/02	1523		
22	062TBQ302	220917817	09/27/02	1607	28.99	
23	ZZZZZZ	ZZZZZZ	09/27/02	1651		
24	062MW22Q302	220917807	09/27/02	1735	28.98	
25	ZZZZZZ	ZZZZZZ	09/27/02	1818		
26	CCV48794	092702CCVA54	09/27/02	1901	28.96	

S1 = 4-Bromofluorobenzene QC LIMITS (+/- 0.2 MINUTES)

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

081002 1343 FORM VIII

VOLATILE ORGANIC ANALYTICAL SEQUENCE

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field 163151

Lab Code : PEL Case No. SAS No: SDG No.: 2209178

GC Column: RTX-502.2 ID: 0.53 (mm) Init. Calib. Date: 09/07/02

Instrument ID: VGC5

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 29.02 S2 :

	CLIENT SAMPLE NO	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #
27	062VEW2Q302	220917808	09/27/02	1943	28.95	
28	062VEW3Q302	220917809	09/27/02	2026	28.95	
29	062VEW4Q302	220917810	09/27/02	2108	28.95	
30	062VEW5Q302	220917811	09/27/02	2152	28.96	
31	062VEW6Q302	220917812	09/27/02	2234	28.96	
32	ZZZZZZ	ZZZZZZ	09/27/02	2317		
33	062VEW8Q302	220917814	09/28/02	0000	28.96	
34	ZZZZZZ	ZZZZZZ	09/28/02	0042		
35	ZZZZZZ	ZZZZZZ	09/28/02	0125		
36	CCV48787	092602CCVA56	09/28/02	0208	28.96	
37	ZZZZZZ	ZZZZZZ	09/28/02	1043		
38	CCV48799	092802CCVA52	09/28/02	1126	28.97	
39	092802LCSA51	092802LCSA51	09/28/02	1210	28.97	
40	092802BLKA51	092802BLKA51	09/28/02	1254	28.98	
41	062MW20Q302MS	220917805	09/28/02	1339	28.98	
42	062MW20Q302SD	220917806	09/28/02	1424	28.99	
43	062MW20Q302	220917804	09/28/02	1508	28.99	
44	ZZZZZZ	ZZZZZZ	09/28/02	1553		
45	062DUPQ302	220917815	09/28/02	1637	28.98	
46	ZZZZZZ	ZZZZZZ	09/28/02	1720		
47	062EQBQ302	220917816	09/28/02	1804	28.97	
48	062VEW7Q302	220917813	09/28/02	1847	28.96	
49	ZZZZZZ	ZZZZZZ	09/28/02	1929		
50	CCV48800	092802CCVA53	09/28/02	2012	28.96	
51	ZZZZZZ	ZZZZZZ	09/28/02	2055		
52	ZZZZZZ	ZZZZZZ	09/28/02	2137		

QC LIMITS
S1 = 4-Bromofluorobenzene (+/- 0.2 MINUTES)

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

081002 1343 FORM VIII

VOLATILE ORGANIC ANALYTICAL SEQUENCE

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field 163151

Lab Code : PEL Case No. SAS No: SDG No.: 2209178

GC Column: RTX-502.2 ID: 0.53 (mm) Init. Calib. Date: 09/07/02

Instrument ID: VGC5

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 29.02 S2 :

	CLIENT SAMPLE NO	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT	#	S2 RT	#
53	ZZZZZZ	ZZZZZZ	09/28/02	2221				
54	ZZZZZZ	ZZZZZZ	09/28/02	2304				
55	ZZZZZZ	ZZZZZZ	09/28/02	2346				
56	ZZZZZZ	ZZZZZZ	09/29/02	0029				

QC LIMITS

S1 = 4-Bromofluorobenzene (+/- 0.2 MINUTES)

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

081002 1343

FORM VIII

3

VOLATILE ORGANIC LAB CONTROL SAMPLE RECOVERY

EPA Sample No.

092802LCSA51

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field 163151

Lab Code : PEL Case No. SAS No: SDG No.: 2209178

COMPOUND	SPIKE ADDED UG/L	LCS CONCENTRATION UG/L	LCS % REC #	QC LIMITS REC.
Benzene	10	10.3	103.0	65 - 134
MTBE	10	11.7	117.0	80 - 135
Toluene	10	11	110.0	82 - 124
Ethylbenzene	10	10.6	106.0	86 - 122
p,m-Xylene	20	22	110.0	88 - 124
o-Xylene	10	10.5	105.0	92 - 124

Spike Recovery: 0 out of 6 outside limits

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS:

081002 1343

Form III

3

VOLATILE ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Sample No.

062MW20Q302MS

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field 163151

Lab Code : PEL Case No. SAS No: SDG No.: 2209178

COMPOUND	SPIKE ADDED UG/L	SAMPLE CONCENTRATION UG/L	MS CONCENTRATION UG/L	MS % REC #	QC LIMITS REC.
Benzene	10	0.55	10.8	102.5	66 - 132
MTBE	10	0	11.3	113.0	81 - 129
Toluene	10	0.24	11.3	110.6	86 - 120
Ethylbenzene	10	0.3	10.9	106.0	87 - 120
p,m-Xylene	20	0	22.1	110.5	94 - 116
o-Xylene	10	0.34	10.8	104.6	93 - 122

Spike Recovery: 0 out of 6 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

081002 1343

3

VOLATILE ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Sample No.

062MW20Q302SD

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field 163151

Lab Code : PEL Case No. SAS No: SDG No.: 2209178

COMPOUND	SPIKE ADDED UG/L	MSD CONCENTRATION UG/L	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Benzene	10	10.5	99.5	2.8	20	66 - 132
MTBE	10	11.5	115.0	1.8	24	81 - 129
Toluene	10	11	107.6	2.7	22	86 - 120
Ethylbenzene	10	10.5	102.0	3.7	23	87 - 120
p,m-Xylene	20	21.2	106.0	4.2	16	94 - 116
o-Xylene	10	10.6	102.6	1.9	28	93 - 122

RPD: 0 out of 6 outside limits

Spike Recovery: 0 out of 6 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

081002 1343

3

VOLATILE ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Sample No.

092702BLKA51MS

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field 163151

Lab Code : PEL Case No. SAS No: SDG No.: 2209178

COMPOUND	SPIKE ADDED UG/L	SAMPLE CONCENTRATION UG/L	MS CONCENTRATION UG/L	MS % REC #	QC LIMITS REC.
Benzene	10	0	10.4	104.0	66 - 132
MTBE	10	0	11.4	114.0	81 - 129
Toluene	10	0	11.3	113.0	86 - 120
Ethylbenzene	10	0	10.9	109.0	87 - 120
p,m-Xylene	20	0	23.2	116.0	94 - 116
o-Xylene	10	0	11.1	111.0	93 - 122

Spike Recovery: 0 out of 6 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

081002 1343

3

VOLATILE ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Sample No.

092702BLKA51SD

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field 163151

Lab Code : PEL Case No. SAS No: SDG No.: 2209178

COMPOUND	SPIKE ADDED UG/L	MSD CONCENTRATION UG/L	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Benzene	10	10.4	104.0	0.0	20	66 - 132
MTBE	10	11.8	118.0	3.4	24	81 - 129
Toluene	10	11.2	112.0	0.9	22	86 - 120
Ethylbenzene	10	10.8	108.0	0.9	23	87 - 120
p,m-Xylene	20	22.4	112.0	3.5	16	94 - 116
o-Xylene	10	10.7	107.0	3.7	28	93 - 122

RPD: 0 out of 6 outside limits

Spike Recovery: 0 out of 6 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

081002 1343

Standards Data

081002 1343

6

VOLATILE ORGANIC INITIAL CALIBRATION DATA

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field 163151

Lab Code : PEL Case No. SAS No: SDG No.: 2209178

Instrument ID: VGC5 Calibration Date: 09/07/02

GC Column: RTX-502.2 ID: 0.53 (mm) Calibration Time: 1918

LAB FILE ID: RRF0.5 =500PPT.D RRF1 =1PPB.D
RRF2 =2PPB.D RRF5 =5PPB.D RRF10 =10PPB.D

COMPOUND	RRF0.5	RRF1	RRF2	RRF5	RRF10
Benzene	1.593	1.55	1.442	1.398	1.543
MTBE	0.44669	0.63263	0.54125	0.4868	0.53546
Toluene	1.325	1.366	1.284	1.255	1.368
Ethylbenzene	1.281	1.324	1.206	1.179	1.261
p,m-Xylene	1.339	1.371	1.313	1.287	1.388
o-Xylene	1.088	1.137	1.077	1.058	1.168
4-Bromofluorobenzene(SURR)	1.377	1.228	1.159	1.19	1.211

VOLATILE ORGANIC INITIAL CALIBRATION DATA

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field 163151

Lab Code : PEL Case No. SAS No: SDG No.: 2209178

Instrument ID: VGC5 Calibration Date: 09/07/02

GC Column: RTX-502.2 ID: 0.53 (mm) Calibration Time: 1918

LAB FILE ID: RRF20 =20PPB.D RRF30 =30PPB.D
RRF40 =40PPB.D RRF50 =50PPB.D RRF100 =100PPB.D

COMPOUND	RRF20	RRF30	RRF40	RRF50	RRF100
Benzene	1.465	1.381	1.413	1.366	1.313
MTBE	0.49634	0.48058	0.50237	0.48968	0.45483
Toluene	1.298	1.221	1.257	1.215	1.164
Ethylbenzene	1.201	1.137	1.169	1.135	1.092
p,m-Xylene	1.318	1.238	1.285	1.244	1.189
o-Xylene	1.107	1.043	1.094	1.065	1.028
4-Bromofluorobenzene(SURR)	1.202	1.13	1.227	1.191	1.128

6

VOLATILE ORGANIC INITIAL CALIBRATION DATA

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field 163151

Lab Code : PEL Case No. SAS No: SDG No.: 2209178

Instrument ID: VGC5 Calibration Date: 09/07/02

GC Column: RTX-502.2 ID: 0.53 (mm) Calibration Time: 1918

COMPOUND	CURVE	COEFFICIENTS AO	COEFFICIENTS A1	%RSD OR R^2
Benzene	AVRG		1.446403553	6.3
MTBE	AVRG		0.506664048	10.5
Toluene	AVRG		1.275202039	5.2
Ethylbenzene	AVRG		1.198513525	6
p,m-Xylene	AVRG		1.297032412	4.8
o-Xylene	AVRG		1.086553185	3.9
==========				
4-Bromofluorobenzene(SURR)	AVRG		1.204330696	5.8

6

VOLATILE ORGANIC INITIAL CALIBRATION DATA

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field 163151

Lab Code : PEL Case No. SAS No: SDG No.: 2209178

Instrument ID: VGC5 Calibration Date: 09/07/02

GC Column: RTX-502.2 ID: 0.53 (mm) Calibration Time: 1918

LAB FILE ID: RT1: 500PPT.D RT2: 1PPB.D
RT3: 2PPB.D RT4: 5PPB.D RT5: 10PPB.D

COMPOUND	RT1	RT2	RT3	RT4	RT5	MEAN RT	RT WINDOW FROM	TO
Benzene	14.027	14.030	14.037	14.030	14.030			
MTBE	9.483	9.473	9.473	9.473	9.467			
Toluene	18.947	18.957	18.960	18.957	18.957			
Ethylbenzene	25.083	25.087	25.093	25.093	25.087			
p,m-Xylene	25.373	25.380	25.390	25.383	25.380			
o-Xylene	26.953	26.957	26.960	26.960	26.957			
4-Bromofluorobenzene(SURR)	28.990	28.990	28.993	28.993	28.990			

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FORM VI

6

VOLATILE ORGANIC INITIAL CALIBRATION DATA

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field 163151

Lab Code : PEL Case No. SAS No: SDG No.: 2209178

Instrument ID: VGC5 Calibration Date: 09/07/02

GC Column: RTX-502.2 ID: 0.53 (mm) Calibration Time: 1918

LAB FILE ID: RT6: 20PPB.D RT7: 30PPB.D
RT8: 40PPB.D RT9: 50PPB.D RT10: 100PPB.D

COMPOUND	RT6	RT7	RT8	RT9	RT10	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Benzene	14.037	14.033	14.030	14.030	14.023	14.031	13.823	14.223
MTBE	9.473	9.470	9.470	9.463	9.470	9.472	9.270	9.670
Toluene	18.960	18.960	18.953	18.953	18.943	18.955	18.743	19.143
Ethylbenzene	25.087	25.090	25.087	25.083	25.080	25.087	24.880	25.280
p,m-Xylene	25.383	25.383	25.377	25.377	25.377	25.380	25.177	25.577
o-Xylene	26.953	26.953	26.953	26.950	26.950	26.955	26.750	27.150
4-Bromofluorobenzene(SURR)	28.987	28.987	28.983	28.983	28.983	28.988	28.807	29.207

7SSC

VOLATILE ORGANIC SECONDARY SOURCE CALIBRATION DATA

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field 163151

Lab Code : PEL Case No. SAS No: SDG No.: 2209178

Instrument ID: VGC5 CalibrationDate: 09/07/02 Time: 2044

Lab File ID: SEC51.D Init. Calib. Date: 09/07/02

GC Column: RTX-502.2 ID: 0.53 (mm) Heated Purge: (Y/N) NO

COMPOUND	$\overline{RRF}$	RRF	%D
Benzene	1.4464	1.42	1.8
MTBE	0.50666	0.52974	4.6
Toluene	1.2752	1.349	5.8
Ethylbenzene	1.19851	1.243	3.7
p,m-Xylene	1.29703	1.397	7.7
o-Xylene	1.08655	1.161	6.9
==========			
4-Bromofluorobenzene	1.20433	1.215	0.9

7

VOLATILE ORGANIC CONTINUING CALIBRATION DATA

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field 163151

Lab Code : PEL Case No. SAS No: SDG No.: 2209178

Instrument ID: VGC5 CalibrationDate: 09/27/02 Time: 0806

Lab File ID: CCV52.D Init. Calib. Date: 09/07/02

GC Column: RTX-502.2 ID: 0.53 (mm) Heated Purge: (Y/N) NO

COMPOUND	$\overline{RRF}$	RRF30	%D
Benzene	1.4464	1.4	3.2
MTBE	0.50666	0.49167	3.0
Toluene	1.2752	1.241	2.7
Ethylbenzene	1.19851	1.16	3.2
p,m-Xylene	1.29703	1.266	2.4
o-Xylene	1.08655	1.06	2.4
==========			
4-Bromofluorobenzene	1.20433	1.135	5.8

7

VOLATILE ORGANIC CONTINUING CALIBRATION DATA

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field 163151

Lab Code : PEL Case No. SAS No: SDG No.: 2209178

Instrument ID: VGC5 CalibrationDate: 09/27/02 Time: 1901

Lab File ID: CCV54.D Init. Calib. Date: 09/07/02

GC Column: RTX-502.2 ID: 0.53 (mm) Heated Purge: (Y/N) NO

COMPOUND	$\overline{RRF}$	RRF30	%D	
Benzene	1.4464	1.56	7.9	
MTBE	0.50666	0.6084	20.1	<-
Toluene	1.2752	1.43	12.1	
Ethylbenzene	1.19851	1.322	10.3	
p,m-Xylene	1.29703	1.428	10.1	
o-Xylene	1.08655	1.168	7.5	
==========				
4-Bromofluorobenzene	1.20433	1.231	2.2	

Average Used: 10

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FORM VII

7

VOLATILE ORGANIC CONTINUING CALIBRATION DATA

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field 163151

Lab Code : PEL Case No. SAS No: SDG No.: 2209178

Instrument ID: VGC5 CalibrationDate: 09/28/02 Time: 0208

Lab File ID: CCV56.D Init. Calib. Date: 09/07/02

GC Column: RTX-502.2 ID: 0.53 (mm) Heated Purge: (Y/N) NO

COMPOUND	$\overline{RRF}$	RRF30	%D	
Benzene	1.4464	1.587	9.7	
MTBE	0.50666	0.601	18.6	<-
Toluene	1.2752	1.461	14.6	
Ethylbenzene	1.19851	1.335	11.4	
p,m-Xylene	1.29703	1.441	11.1	
o-Xylene	1.08655	1.194	9.9	
==========				
4-Bromofluorobenzene	1.20433	1.161	3.6	

Average Used: 11.3

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FORM VII

7

VOLATILE ORGANIC CONTINUING CALIBRATION DATA

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field 163151

Lab Code : PEL Case No. SAS No: SDG No.: 2209178

Instrument ID: VGC5 CalibrationDate: 09/28/02 Time: 1126

Lab File ID: CCV52.D Init. Calib. Date: 09/07/02

GC Column: RTX-502.2 ID: 0.53 (mm) Heated Purge: (Y/N) NO

COMPOUND	$\overline{RRF}$	RRF30	%D
Benzene	1.4464	1.442	0.3
MTBE	0.50666	0.52348	3.3
Toluene	1.2752	1.337	4.8
Ethylbenzene	1.19851	1.231	2.7
p,m-Xylene	1.29703	1.328	2.4
o-Xylene	1.08655	1.105	1.7
==========			
4-Bromofluorobenzene	1.20433	1.158	3.8

7

VOLATILE ORGANIC CONTINUING CALIBRATION DATA

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field 163151

Lab Code : PEL Case No. SAS No: SDG No.: 2209178

Instrument ID: VGC5 CalibrationDate: 09/28/02 Time: 2012

Lab File ID: CCV53.D Init. Calib. Date: 09/07/02

GC Column: RTX-502.2 ID: 0.53 (mm) Heated Purge: (Y/N) NO

COMPOUND	$\overline{RRF}$	RRF30	%D
Benzene	1.4464	1.512	4.5
MTBE	0.50666	0.56569	11.7
Toluene	1.2752	1.411	10.6
Ethylbenzene	1.19851	1.311	9.4
p,m-Xylene	1.29703	1.4	7.9
o-Xylene	1.08655	1.163	7.0
==========			
4-Bromofluorobenzene	1.20433	1.218	1.1

HPLC PAH ORGANICS

METHOD 8310

081002 1343

CASE NARRATIVE
HPLC SEMIVOLATILE ORGANICS

PEL Lab Reference No./SDG: 2209178

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

SW846/EPA 8310

IV. PREPARATION

Water samples were prepared by SW846 EPA 3510 for 8310 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.

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 - 062MW20Q302MS was analyzed with the water samples extracted on 09/26/02. The following analyte(s) were recovered below criteria: 1-Methylnaphthalene at 42.7 % with criteria of (48-92), Acenaphthene at 43.7 % with criteria of (52-86).

CASE NARRATIVE
HPLC SEMIVOLATILE ORGANICS

PEL Lab Reference No./SDG: 2209178

Client: CH2M Hill

No further action was taken..

E. Internal Standards:

This method does not require the use of internal standards.

F. 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:** 10-8-02

PAH ORGANIC CROSS REFERENCE TABLE

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field 163151

Lab Code : PEL Case No. SAS No: SDG No.: 2209178

Method: 8310

EPA Sample No	Lab Sample ID
062MW4Q302	220917801
062MW9Q302	220917802
062MW13Q302	220917803
062MW20Q302	220917804
062MW22Q302	220917807
062VEW2Q302	220917808
062VEW3Q302	220917809
062VEW4Q302	220917810
062VEW5Q302	220917811
062VEW6Q302	220917812
062VEW7Q302	220917813
062VEW8Q302	220917814
062DUPQ302	220917815
062EQBQ302	220917816

081002 1343

Sample Data

081002 1343

1

PAH ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

062MW4Q302

Lab Name: PEL Laboratories, Inc.
Contract: Cecil Field 163151
Lab Code : PEL
Case No.
SAS No:
SDG No.: 2209178
Matrix: WATER
Lab Sample ID: 220917801
Lab File ID: 178-1.D
Sample wt/vol: 990
Units: ML
Date Received: 09/25/02
Concentrated Extract Volume: 1
Date Extracted: 09/26/02
Level:(low/med) LOW
Date Analyzed: 09/27/02
Time: 1513
PercentSolids: 0
decanted :
Dilution Factor: 1
Extraction: SEPF
Station ID: CEF-293-4
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	0.2	U
208-96-8	Acenaphthylene	0.2	U
90-12-0	1-Methylnaphthalene	0.2	U
91-57-6	2-Methylnaphthalene	0.2	U
83-32-9	Acenaphthene	0.2	U
86-73-7	Fluorene	0.2	U
85-01-8	Phenanthrene	0.2	U
120-12-7	Anthracene	0.2	U
206-44-0	Fluoranthene	0.2	U
129-00-0	Pyrene	0.2	U
56-55-3	Benzo(a)anthracene	0.2	U
218-01-9	Chrysene	0.2	U
205-99-2	Benzo(b)fluoranthene	0.2	U
207-08-9	Benzo(k)fluoranthene	0.2	U
50-32-8	Benzo(a)pyrene	0.2	U
53-70-3	Dibenz(a,h)anthracene	0.2	U
191-24-2	Benzo(g,h,i)perylene	0.2	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.2	U

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PAH ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

062MW9Q302

Lab Name: PEL Laboratories, Inc.

Contract: Cecil Field 163151

Lab Code : PEL Case No.

SAS No:

SDG No.: 2209178

Matrix: WATER

Lab Sample ID: 220917802

Lab File ID: 178-2.D

Sample wt/vol: 950 Units: ML

Date Received: 09/25/02

Concentrated Extract Volume: 1

Date Extracted: 09/26/02

Level:(low/med) LOW

Date Analyzed: 09/27/02 Time: 1547

PercentSolids: 0 decanted :

Dilution Factor: 1

Extraction: SEPF

Station ID: CEF-293-9 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.: 062MW13Q302

Lab Name: PEL Laboratories, Inc.
Contract: Cecil Field 163151
Lab Code: PEL
Case No.:
SAS No:
SDG No.: 2209178
Matrix: WATER
Lab Sample ID: 220917803
Lab File ID: 178-3.D
Sample wt/vol: 950
Units: ML
Date Received: 09/25/02
Concentrated Extract Volume: 1
Date Extracted: 09/26/02
Level:(low/med) LOW
Date Analyzed: 09/27/02
Time: 1622
PercentSolids: 0
decanted :
Dilution Factor: 1
Extraction: SEPF
Station ID: CEF-293-13
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	0.34	
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	0.26	
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.

062MW20Q302

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field 163151

Lab Code : PEL Case No. SAS No: SDG No.: 2209178

Matrix: WATER Lab Sample ID: 220917804 Lab File ID: 178-4.D

Sample wt/vol: 980 Units: ML Date Received: 09/25/02

Concentrated Extract Volume: 1 Date Extracted: 09/26/02

Level:(low/med) LOW Date Analyzed: 09/27/02 Time: 1656

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: SEPF Station ID: CEF-293-20 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	0.61	
208-96-8	Acenaphthylene	0.2	U
90-12-0	1-Methylnaphthalene	0.2	U
91-57-6	2-Methylnaphthalene	0.2	U
83-32-9	Acenaphthene	0.2	U
86-73-7	Fluorene	0.2	U
85-01-8	Phenanthrene	0.2	U
120-12-7	Anthracene	0.2	U
206-44-0	Fluoranthene	0.2	U
129-00-0	Pyrene	0.2	U
56-55-3	Benzo(a)anthracene	0.2	U
218-01-9	Chrysene	0.2	U
205-99-2	Benzo(b)fluoranthene	0.2	U
207-08-9	Benzo(k)fluoranthene	0.2	U
50-32-8	Benzo(a)pyrene	0.2	U
53-70-3	Dibenz(a,h)anthracene	0.2	U
191-24-2	Benzo(g,h,i)perylene	0.2	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.2	U

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PAH ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062MW22Q302

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field 163151

Lab Code: PEL Case No. SAS No: SDG No.: 2209178

Matrix: WATER Lab Sample ID: 220917807 Lab File ID: 178-7.D

Sample wt/vol: 950 Units: ML Date Received: 09/25/02

Concentrated Extract Volume: 1 Date Extracted: 09/26/02

Level:(low/med) LOW Date Analyzed: 09/27/02 Time: 1731

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: SEPF Station ID: CEF-293-22 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	2.7	
208-96-8	Acenaphthylene	0.21	U
90-12-0	1-Methylnaphthalene	5.9	
91-57-6	2-Methylnaphthalene	8.5	
83-32-9	Acenaphthene	0.21	U
86-73-7	Fluorene	0.23	
85-01-8	Phenanthrene	0.52	
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.: 062VEW2Q302

Lab Name: PEL Laboratories, Inc.
Contract: Cecil Field 163151
Lab Code: PEL
Case No.:
SAS No:
SDG No.: 2209178
Matrix: WATER
Lab Sample ID: 220917808
Lab File ID: 178-8.D
Sample wt/vol: 960
Units: ML
Date Received: 09/25/02
Concentrated Extract Volume: 1
Date Extracted: 09/26/02
Level:(low/med) LOW
Date Analyzed: 09/27/02
Time: 1840
PercentSolids: 0
decanted:
Dilution Factor: 1
Extraction: SEPF
Station ID: VEW-2
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	0.59	
90-12-0	1-Methylnaphthalene	0.21	U
91-57-6	2-Methylnaphthalene	0.24	
83-32-9	Acenaphthene	0.21	U
86-73-7	Fluorene	0.21	U
85-01-8	Phenanthrene	0.3	
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.

062VEW3Q302

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field 163151

Lab Code : PEL Case No. SAS No: SDG No.: 2209178

Matrix: WATER Lab Sample ID: 220917809 Lab File ID: 178-9.D

Sample wt/vol: 960 Units: ML Date Received: 09/25/02

Concentrated Extract Volume: 1 Date Extracted: 09/26/02

Level:(low/med) LOW Date Analyzed: 09/27/02 Time: 1915

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: SEPF Station ID: VEW-3 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.

062VEW4Q302

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field 163151

Lab Code : PEL Case No. SAS No: SDG No.: 2209178

Matrix: WATER Lab Sample ID: 220917810 Lab File ID: 178-10.D

Sample wt/vol: 940 Units: ML Date Received: 09/25/02

Concentrated Extract Volume: 1 Date Extracted: 09/26/02

Level:(low/med) LOW Date Analyzed: 09/27/02 Time: 1950

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: SEPF Station ID: VEW-4 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.: 062VEW5Q302

Lab Name: PEL Laboratories, Inc.
Contract: Cecil Field 163151
Lab Code: PEL
Case No.:
SAS No:
SDG No.: 2209178
Matrix: WATER
Lab Sample ID: 220917811
Lab File ID: 178-11.D
Sample wt/vol: 950
Units: ML
Date Received: 09/25/02
Concentrated Extract Volume: 1
Date Extracted: 09/26/02
Level:(low/med) LOW
Date Analyzed: 09/27/02
Time: 2024
PercentSolids: 0
decanted:
Dilution Factor: 1
Extraction: SEPF
Station ID: VEW-5
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.: 062VEW6Q302

Lab Name: PEL Laboratories, Inc.
Contract: Cecil Field 163151
Lab Code: PEL
Case No.
SAS No:
SDG No.: 2209178
Matrix: WATER
Lab Sample ID: 220917812
Lab File ID: 178-12.D
Sample wt/vol: 940 Units: ML
Date Received: 09/25/02
Concentrated Extract Volume: 1
Date Extracted: 09/26/02
Level:(low/med) LOW
Date Analyzed: 09/27/02
Time: 2059
PercentSolids: 0 decanted :
Dilution Factor: 1
Extraction: SEPF
Station ID: VEW-6
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.: 062VEW7Q302

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field 163151

Lab Code: PEL Case No. SAS No: SDG No.: 2209178

Matrix: WATER Lab Sample ID: 220917813 Lab File ID: 178-13.D

Sample wt/vol: 940 Units: ML Date Received: 09/25/02

Concentrated Extract Volume: 1 Date Extracted: 09/26/02

Level:(low/med) LOW Date Analyzed: 09/27/02 Time: 2133

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: SEPF Station ID: VEW-7 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.: 062VEW8Q302

Lab Name: PEL Laboratories, Inc.
Contract: Cecil Field 163151
Lab Code: PEL
Case No.:
SAS No:
SDG No.: 2209178
Matrix: WATER
Lab Sample ID: 220917814
Lab File ID: 178-14.D
Sample wt/vol: 940
Units: ML
Date Received: 09/25/02
Concentrated Extract Volume: 1
Date Extracted: 09/26/02
Level:(low/med) LOW
Date Analyzed: 09/27/02
Time: 2208
PercentSolids: 0
decanted :
Dilution Factor: 1
Extraction: SEPF
Station ID: VEW-8
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.: 062DUPQ302

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field 163151

Lab Code: PEL Case No. SAS No: SDG No.: 2209178

Matrix: WATER Lab Sample ID: 220917815 Lab File ID: 178-15.D

Sample wt/vol: 960 Units: ML Date Received: 09/25/02

Concentrated Extract Volume: 1 Date Extracted: 09/26/02

Level:(low/med) LOW Date Analyzed: 09/27/02 Time: 2243

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.: 062EQBQ302

Lab Name: PEL Laboratories, Inc.
Contract: Cecil Field 163151
Lab Code: PEL
Case No.
SAS No:
SDG No.: 2209178
Matrix: WATER
Lab Sample ID: 220917816
Lab File ID: 178-16.D
Sample wt/vol: 940
Units: ML
Date Received: 09/25/02
Concentrated Extract Volume: 1
Date Extracted: 09/26/02
Level:(low/med) LOW
Date Analyzed: 09/27/02
Time: 2317
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

061002 1343

1

PAH ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

92602BLK01

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field 163151

Lab Code : PEL Case No. SAS No: SDG No.: 2209178

Matrix: WATER Lab Sample ID: 81419 Lab File ID: 926BLK.D

Sample wt/vol: 1000 Units: ML Date Received: 09/26/02

Concentrated Extract Volume: 1 Date Extracted: 09/26/02

Level:(low/med) LOW Date Analyzed: 09/27/02 Time: 1220

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: SEPF Station ID: 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	0.2	U
208-96-8	Acenaphthylene	0.2	U
90-12-0	1-Methylnaphthalene	0.2	U
91-57-6	2-Methylnaphthalene	0.2	U
83-32-9	Acenaphthene	0.2	U
86-73-7	Fluorene	0.2	U
85-01-8	Phenanthrene	0.2	U
120-12-7	Anthracene	0.2	U
206-44-0	Fluoranthene	0.2	U
129-00-0	Pyrene	0.2	U
56-55-3	Benzo(a)anthracene	0.2	U
218-01-9	Chrysene	0.2	U
205-99-2	Benzo(b)fluoranthene	0.2	U
207-08-9	Benzo(k)fluoranthene	0.2	U
50-32-8	Benzo(a)pyrene	0.2	U
53-70-3	Dibenz(a,h)anthracene	0.2	U
191-24-2	Benzo(g,h,i)perylene	0.2	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.2	U

PAH ORGANIC METHOD BLANK SUMMARY

EPA Sample No.: 92602BLK01

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field 163151

Lab Code: PEL Case No. SAS No: SDG No.: 2209178

Lab File ID: 926BLK.D Lab Sample ID: 81419

Instrument ID: SLC01 Date Extracted: 09/26/02

Matrix: WATER Date Analyzed: 09/27/02

Level:(low/med) LOW Time Analyzed: 1220

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	92602LCS01	81420	926LCS.D	09/27/02	1254
2	062MW20Q302MS	220917805	178-5MS.D	09/27/02	1403
3	062MW20Q302SD	220917806	178-6SD.D	09/27/02	1438
4	062MW4Q302	220917801	178-1.D	09/27/02	1513
5	062MW9Q302	220917802	178-2.D	09/27/02	1547
6	062MW13Q302	220917803	178-3.D	09/27/02	1622
7	062MW20Q302	220917804	178-4.D	09/27/02	1656
8	062MW22Q302	220917807	178-7.D	09/27/02	1731
9	062VEW2Q302	220917808	178-8.D	09/27/02	1840
10	062VEW3Q302	220917809	178-9.D	09/27/02	1915
11	062VEW4Q302	220917810	178-10.D	09/27/02	1950
12	062VEW5Q302	220917811	178-11.D	09/27/02	2024
13	062VEW6Q302	220917812	178-12.D	09/27/02	2059
14	062VEW7Q302	220917813	178-13.D	09/27/02	2133
15	062VEW8Q302	220917814	178-14.D	09/27/02	2208
16	062DUPQ302	220917815	178-15.D	09/27/02	2243
17	062EQBQ302	220917816	178-16.D	09/27/02	2317

COMMENTS:

Page 1 of 1

2A

WATER PAH ORGANIC SURROGATE RECOVERY

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field 163151

Lab Code : PEL Case No. SAS No: SDG NO.: 2209178

Column(1): Vydac 201TP54 ID: 4.6 (mm)

EPA Sample NO.	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	TOT OUT
062DUPQ302	84.1						0
062EQBQ302	62.0						0
062MW13Q302	80.0						0
062MW20Q302	84.3						0
062MW20Q302MS	74.8						0
062MW20Q302SD	81.6						0
062MW22Q302	86.2						0
062MW4Q302	76.7						0
062MW9Q302	86.2						0
062VEW2Q302	82.7						0
062VEW3Q302	87.0						0
062VEW4Q302	87.8						0
062VEW5Q302	86.7						0
062VEW6Q302	82.6						0
062VEW7Q302	73.7						0
062VEW8Q302	85.9						0
92602BLK01	95.0						0
92602LCS01	84.0						0

Control Limits

S1 = p-Terphenyl-d14 39 - 107

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

081002 1343

PAH ORGANIC ANALYTICAL SEQUENCE

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field 163151

Lab Code : PEL Case No. SAS No: SDG No.: 2209178

GC Column: Vydac 201TP5 ID: 4.6 (mm) Init. Calib. Date: 09/19/02

Instrument ID: SLC01

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 18.76 S2 :

	CLIENT SAMPLE NO	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #
1	STD49062	SV6511	09/19/02	1854	18.77	
2	STD49063	SV6510	09/19/02	1929	18.76	
3	STD49064	SV6509	09/19/02	2004	18.77	
4	STD49065	SV6508	09/19/02	2038	18.76	
5	STD49066	SV6507	09/19/02	2113	18.74	
6	STD49067	SV6506	09/19/02	2147	18.75	
7	STD49068	SV6505	09/19/02	2222	18.75	
8	SSC49070	SV6512	09/19/02	2257	18.76	
9	ZZZZZZ	ZZZZZZ	09/27/02	1110		
10	CCV48465	SV6507	09/27/02	1145	18.69	
11	92602BLK01	81419	09/27/02	1220	18.69	
12	92602LCS01	81420	09/27/02	1254	18.7	
13	ZZZZZZ	ZZZZZZ	09/27/02	1329		
14	062MW20Q302MS	220917805	09/27/02	1403	18.7	
15	062MW20Q302SD	220917806	09/27/02	1438	18.7	
16	062MW4Q302	220917801	09/27/02	1513	18.69	
17	062MW9Q302	220917802	09/27/02	1547	18.69	
18	062MW13Q302	220917803	09/27/02	1622	18.69	
19	062MW20Q302	220917804	09/27/02	1656	18.69	
20	062MW22Q302	220917807	09/27/02	1731	18.69	
21	CCV48466	SV6507	09/27/02	1806	18.69	
22	062VEW2Q302	220917808	09/27/02	1840	18.69	
23	062VEW3Q302	220917809	09/27/02	1915	18.69	
24	062VEW4Q302	220917810	09/27/02	1950	18.69	
25	062VEW5Q302	220917811	09/27/02	2024	18.69	
26	062VEW6Q302	220917812	09/27/02	2059	18.69	

S1 = p-Terphenyl-d14

QC LIMITS
(+/- 0.23 MINUTES)

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

081002 1343

FORM VIII

PAH ORGANIC ANALYTICAL SEQUENCE

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field 163151

Lab Code : PEL Case No. SAS No: SDG No.: 2209178

GC Column: Vydac 201TP5 ID: 4.6 (mm) Init. Calib. Date: 09/19/02

Instrument ID: SLC01

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 18.76 S2 :

	CLIENT SAMPLE NO	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #
27	062VEW7Q302	220917813	09/27/02	2133	18.69	
28	062VEW8Q302	220917814	09/27/02	2208	18.69	
29	062DUPQ302	220917815	09/27/02	2243	18.69	
30	062EQBQ302	220917816	09/27/02	2317	18.69	
31	CCV49069	SV6507	09/27/02	2352	18.69	

S1 = p-Terphenyl-d14 QC LIMITS (+/- 0.23 MINUTES)

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

081002 1343 FORM VIII

3

PAH ORGANIC LAB CONTROL SAMPLE RECOVERY

EPA Sample No.

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field 163151 92602LCS01

Lab Code : PEL Case No. SAS No: SDG No.: 2209178

COMPOUND	SPIKE ADDED UG/L	LCS CONCENTRATION UG/L	LCS % REC #	QC LIMITS REC.
Naphthalene	10	5.9	59.0	45 - 78
Acenaphthylene	10	7	70.0	50 - 91
1-Methylnaphthalene	10	5.5	55.0	48 - 92
2-Methylnaphthalene	10	6.5	65.0	52 - 88
Acenaphthene	10	5.5	55.0	52 - 86
Fluorene	10	7.1	71.0	51 - 92
Phenanthrene	10	7	70.0	52 - 98
Anthracene	10	8.1	81.0	44 - 105
Fluoranthene	10	7.7	77.0	58 - 99
Pyrene	10	7.8	78.0	56 - 102
Benzo(a)anthracene	10	7.9	79.0	59 - 103
Chrysene	10	7.8	78.0	58 - 104
Benzo(b)fluoranthene	10	7.8	78.0	53 - 108
Benzo(k)fluoranthene	10	8.1	81.0	52 - 107
Benzo(a)pyrene	10	7.3	73.0	56 - 101
Dibenz(a,h)anthracene	10	7.4	74.0	41 - 114
Benzo(g,h,i)perylene	10	7.6	76.0	41 - 109
Indeno(1,2,3-cd)pyrene	10	7.8	78.0	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:

081002 1343

Form III

3

PAH ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Sample No.

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field 163151 062MW20Q302MS

Lab Code : PEL Case No. SAS No: SDG No.: 2209178

COMPOUND	SPIKE ADDED UG/L	SAMPLE CONCENTRATION UG/L	MS CONCENTRATION UG/L	MS % REC #	QC LIMITS REC.
Naphthalene	10.3	0.61	5.5	47.5	45 - 78
Acenaphthylene	10.3	0	6.1	59.2	50 - 91
1-Methylnaphthalene	10.3	0	4.4	42.7 *	48 - 92
2-Methylnaphthalene	10.3	0	5.6	54.4	52 - 88
Acenaphthene	10.3	0	4.5	43.7 *	52 - 86
Fluorene	10.3	0	6.4	62.1	51 - 92
Phenanthrene	10.3	0	6.5	63.1	52 - 98
Anthracene	10.3	0	7.6	73.8	44 - 105
Fluoranthene	10.3	0	7.4	71.8	58 - 99
Pyrene	10.3	0	7.4	71.8	56 - 102
Benzo(a)anthracene	10.3	0	7.6	73.8	59 - 103
Chrysene	10.3	0	7.4	71.8	58 - 104
Benzo(b)fluoranthene	10.3	0	7.5	72.8	53 - 108
Benzo(k)fluoranthene	10.3	0	7.6	73.8	52 - 107
Benzo(a)pyrene	10.3	0	6.9	67.0	56 - 101
Dibenz(a,h)anthracene	10.3	0	7	68.0	41 - 114
Benzo(g,h,i)perylene	10.3	0	7.4	71.8	41 - 109
Indeno(1,2,3-cd)pyrene	10.3	0	7.4	71.8	42 - 105

Spike Recovery: 2 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

081002 1343

3

PAH ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Sample No.

062MW20Q302SD

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field 163151

Lab Code : PEL Case No. SAS No: SDG No.: 2209178

COMPOUND	SPIKE ADDED UG/L	MSD CONCENTRATION UG/L	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Naphthalene	10.3	6.3	55.2	13.6	27	45 - 78
Acenaphthylene	10.3	7	68.0	13.7	34	50 - 91
1-Methylnaphthalene	10.3	5	48.5	12.8	29	48 - 92
2-Methylnaphthalene	10.3	6.4	62.1	13.3	34	52 - 88
Acenaphthene	10.3	5.4	52.4	18.2	37	52 - 86
Fluorene	10.3	7.3	70.9	13.1	28	51 - 92
Phenanthrene	10.3	7.3	70.9	11.6	32	52 - 98
Anthracene	10.3	8.4	81.6	10.0	34	44 - 105
Fluoranthene	10.3	8.1	78.6	9.0	28	58 - 99
Pyrene	10.3	8.1	78.6	9.0	30	56 - 102
Benzo(a)anthracene	10.3	8.3	80.6	8.8	28	59 - 103
Chrysene	10.3	8.1	78.6	9.0	21	58 - 104
Benzo(b)fluoranthene	10.3	8.1	78.6	7.7	21	53 - 108
Benzo(k)fluoranthene	10.3	8.3	80.6	8.8	20	52 - 107
Benzo(a)pyrene	10.3	7.5	72.8	8.3	22	56 - 101
Dibenz(a,h)anthracene	10.3	7.4	71.8	5.6	21	41 - 114
Benzo(g,h,i)perylene	10.3	7.8	75.7	5.3	21	41 - 109
Indeno(1,2,3-cd)pyrene	10.3	8	77.7	7.8	28	42 - 105

RPD: 0 out of 18 outside limits

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:

Form III

081002 1343

Standards Data

081002 1343

PAH ORGANIC INITIAL CALIBRATION DATA

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field 163151

Lab Code : PEL Case No. SAS No: SDG No.: 2209178

Instrument ID: SLC01 Calibration Date: 09/19/02

GC Column: Vydac 201TP5 ID: 4.6 (mm) Calibration Time: 2222

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	5245	5251	5009.6	4872.2	4994.533
Acenaphthylene	4215	4328	3995.2	3856.2	3925.4
1-Methylnaphthalene	10935	5670	3793	3805	4152.8
2-Methylnaphthalene	6525	4480	4341.2	4176.4	4271.4
Acenaphthene	16025	8844	7204.8	7877.4	8558
Fluorene	29200	24353	24061	23368.1	23937.067
Phenanthrene	33865	22301	27856.6	29032.8	30561.533
Anthracene	232680	188198	187512	178273.3	177465.267
Fluoranthene	19280	18625	17714.8	17238.4	17718.333
Pyrene	16315	13197	13502.8	13162.8	13473.667
Benzo(a)anthracene	50150	39475	38875.8	37571.4	38477.067
Chrysene	58655	61692	78623	79255.8	81532.067
Benzo(b)fluoranthene	51290	42683	42616.2	41358.8	42431.467
Benzo(k)fluoranthene	48360	37921	37968	36834.9	37689.133
Benzo(a)pyrene	53215	36408	47896	48732.2	51122.733
Dibenz(a,h)anthracene	48490	40644	53860.8	55161.6	57325
Benzo(g,h,i)perylene	20335	15752	15689.6	15254.1	15668.133
Indeno(1,2,3-cd)pyrene	54285	47528	48080.2	47196.1	48460
p-Terphenyl-d14(SURR)	18445	14543	13773.6	13313.2	13614.533

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PAH ORGANIC INITIAL CALIBRATION DATA

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field 163151

Lab Code : PEL Case No. SAS No: SDG No.: 2209178

Instrument ID: SLC01 Calibration Date: 09/19/02

GC Column: Vydac 201TP5 ID: 4.6 (mm) Calibration Time: 2222

LAB FILE ID: RRF20 =CAL6.D RRF30 =CAL7.D

COMPOUND	RRF20	RRF30			
Naphthalene	4852.5	4878.633			
Acenaphthylene	3804.95	3798.767			
1-Methylnaphthalene	4199.9	4375.967			
2-Methylnaphthalene	4152.4	4173.933			
Acenaphthene	8275.1	8737.2			
Fluorene	23216.8	23376.133			
Phenanthrene	29970.1	30291.167			
Anthracene	169226.05	161508.767			
Fluoranthene	17206.25	17337.4			
Pyrene	13112.75	13181.567			
Benzo(a)anthracene	37307.8	37594.667			
Chrysene	79626.2	79986.8			
Benzo(b)fluoranthene	41205.05	41559.133			
Benzo(k)fluoranthene	36576.95	36737.033			
Benzo(a)pyrene	49912.25	49793.1			
Dibenz(a,h)anthracene	55736.5	55551.167			
Benzo(g,h,i)perylene	15249.6	15390.133			
Indeno(1,2,3-cd)pyrene	47195.95	47273.233			
==========					
p-Terphenyl-d14(SURR)	13207.55	13294.967			

PAH ORGANIC INITIAL CALIBRATION DATA

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field 163151

Lab Code : PEL Case No. SAS No: SDG No.: 2209178

Instrument ID: SLC01 Calibration Date: 09/19/02

GC Column: Vydac 201TP5 ID: 4.6 (mm) Calibration Time: 2222

COMPOUND	CURVE	COEFFICIENTS AO	COEFFICIENTS A1	%RSD OR R^2
Naphthalene	LINR		0.0002044832	0.99978
Acenaphthylene	LINR		0.0002614407	0.9996
1-Methylnaphthalene	LINR		0.0002343578	0.99643
2-Methylnaphthalene	LINR		0.0002389271	0.99975
Acenaphthene	LINR		0.0001171413	0.99702
Fluorene	LINR		4.268589E-05	0.99977
Phenanthrene	LINR		3.317831E-05	0.9994
Anthracene	LINR		5.978662E-06	0.99608
Fluoranthene	LINR		5.760481E-05	0.99979
Pyrene	LINR		7.570273E-05	0.99981
Benzo(a)anthracene	LINR		2.654711E-05	0.99975
Chrysene	LINR		1.249354E-05	0.99977
Benzo(b)fluoranthene	LINR		2.403803E-05	0.99979
Benzo(k)fluoranthene	LINR		2.713154E-05	0.99975
Benzo(a)pyrene	LINR		2.003548E-05	0.99957
Dibenz(a,h)anthracene	LINR		1.792446E-05	0.99957
Benzo(g,h,i)perylene	LINR		6.496964E-05	0.99982
Indeno(1,2,3-cd)pyrene	LINR		2.108461E-05	0.99981
p-Terphenyl-d14(SURR)	LINR		7.502968E-05	0.99974

6

PAH ORGANIC INITIAL CALIBRATION DATA

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field 163151

Lab Code : PEL Case No. SAS No: SDG No.: 2209178

Instrument ID: SLC01 Calibration Date: 09/19/02

GC Column: Vydac 201TP5 ID: 4.6 (mm) Calibration Time: 2222

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	11.877	11.860	11.867	11.860	11.833			
Acenaphthylene	13.097	13.090	13.093	13.090	13.063			
1-Methylnaphthalene	13.805	13.800	13.805	13.796	13.772			
2-Methylnaphthalene	14.070	14.060	14.067	14.060	14.033			
Acenaphthene	14.476	14.480	14.480	14.468	14.449			
Fluorene	14.770	14.763	14.770	14.760	14.737			
Phenanthrene	15.671	15.658	15.665	15.653	15.634			
Anthracene	16.330	16.327	16.333	16.323	16.300			
Fluoranthene	17.157	17.153	17.167	17.153	17.130			
Pyrene	17.713	17.707	17.720	17.707	17.687			
Benzo(a)anthracene	19.543	19.533	19.550	19.543	19.523			
Chrysene	20.045	20.030	20.042	20.035	20.022			
Benzo(b)fluoranthene	21.370	21.353	21.373	21.363	21.343			
Benzo(k)fluoranthene	22.027	22.007	22.027	22.013	21.993			
Benzo(a)pyrene	22.706	22.683	22.702	22.691	22.672			
Dibenz(a,h)anthracene	23.800	23.785	23.797	23.796	23.769			
Benzo(g,h,i)perylene	24.383	24.360	24.380	24.383	24.353			
Indeno(1,2,3-cd)pyrene	24.890	24.873	24.890	24.897	24.860			
p-Terphenyl-d14(SURR)	18.767	18.757	18.770	18.760	18.737			

6

PAH ORGANIC INITIAL CALIBRATION DATA

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field 163151

Lab Code : PEL Case No. SAS No: SDG No.: 2209178

Instrument ID: SLC01 Calibration Date: 09/19/02

GC Column: Vydac 201TP5 ID: 4.6 (mm) Calibration Time: 2222

LAB FILE ID: RT6: CAL6.D RT7: CAL7.D

COMPOUND	RT6	RT7				MEAN RT	RT WINDOW FROM	TO
Naphthalene	11.853	11.860				11.862	11.630	12.090
Acenaphthylene	13.083	13.090				13.090	12.860	13.320
1-Methylnaphthalene	13.786	13.795				13.797	13.565	14.025
2-Methylnaphthalene	14.053	14.063				14.062	13.830	14.290
Acenaphthene	14.461	14.470				14.472	14.240	14.700
Fluorene	14.757	14.763				14.764	14.533	14.993
Phenanthrene	15.648	15.655				15.658	15.427	15.887
Anthracene	16.320	16.323				16.326	16.097	16.557
Fluoranthene	17.150	17.153				17.156	16.927	17.387
Pyrene	17.703	17.707				17.710	17.480	17.940
Benzo(a)anthracene	19.540	19.537				19.541	19.313	19.773
Chrysene	20.031	20.029				20.036	19.808	20.268
Benzo(b)fluoranthene	21.363	21.357				21.364	21.137	21.597
Benzo(k)fluoranthene	22.017	22.003				22.016	21.787	22.247
Benzo(a)pyrene	22.696	22.684				22.694	22.468	22.928
Dibenz(a,h)anthracene	23.783	23.755				23.785	23.550	24.010
Benzo(g,h,i)perylene	24.373	24.347				24.370	24.137	24.597
Indeno(1,2,3-cd)pyrene	24.880	24.850				24.879	24.643	25.103
p-Terphenyl-d14(SURR)	18.753	18.750				18.760	18.530	18.990

7

PAH ORGANIC CONTINUING CALIBRATION DATA

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field 163151

Lab Code : PEL Case No. SAS No: SDG No.: 2209178

Instrument ID: SLC01 CalibrationDate: 09/27/02 Time: 1145

Lab File ID: CCV1.D Init. Calib. Date: 09/19/02

GC Column: Vydac 201TP5 ID: 4.6 (mm)

COMPOUND	SAMPLE AMOUNT	15 AMOUNT	CURVE	%D	MAX %D
Naphthalene	15.5	15	LINR	3.3	15.0
Acenaphthylene	15.7	15	LINR	4.7	15.0
1-Methylnaphthalene	14.4	15	LINR	4.0	15.0
2-Methylnaphthalene	15.5	15	LINR	3.3	15.0
Acenaphthene	14.5	15	LINR	3.3	15.0
Fluorene	15.6	15	LINR	4.0	15.0
Phenanthrene	15.3	15	LINR	2.0	15.0
Anthracene	16.2	15	LINR	8.0	15.0
Fluoranthene	15.5	15	LINR	3.3	15.0
Pyrene	15.5	15	LINR	3.3	15.0
Benzo(a)anthracene	15.5	15	LINR	3.3	15.0
Chrysene	15.5	15	LINR	3.3	15.0
Benzo(b)fluoranthene	15.5	15	LINR	3.3	15.0
Benzo(k)fluoranthene	15.6	15	LINR	4.0	15.0
Benzo(a)pyrene	15.6	15	LINR	4.0	15.0
Dibenz(a,h)anthracene	15.5	15	LINR	3.3	15.0
Benzo(g,h,i)perylene	15.3	15	LINR	2.0	15.0
Indeno(1,2,3-cd)pyrene	15.5	15	LINR	3.3	15.0
p-Terphenyl-d14	15.6	15	LINR	4.0	15.0

7

PAH ORGANIC CONTINUING CALIBRATION DATA

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field 163151

Lab Code : PEL Case No. SAS No: SDG No.: 2209178

Instrument ID: SLC01 CalibrationDate: 09/27/02 Time: 1806

Lab File ID: CCV2.D Init. Calib. Date: 09/19/02

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	15.6	15	LINR	4.0	15.0
1-Methylnaphthalene	14.4	15	LINR	4.0	15.0
2-Methylnaphthalene	15.5	15	LINR	3.3	15.0
Acenaphthene	14.2	15	LINR	5.3	15.0
Fluorene	15.5	15	LINR	3.3	15.0
Phenanthrene	15.1	15	LINR	0.7	15.0
Anthracene	16.1	15	LINR	7.3	15.0
Fluoranthene	15.5	15	LINR	3.3	15.0
Pyrene	15.5	15	LINR	3.3	15.0
Benzo(a)anthracene	15.5	15	LINR	3.3	15.0
Chrysene	15.2	15	LINR	1.3	15.0
Benzo(b)fluoranthene	15.5	15	LINR	3.3	15.0
Benzo(k)fluoranthene	15.6	15	LINR	4.0	15.0
Benzo(a)pyrene	15.3	15	LINR	2.0	15.0
Dibenz(a,h)anthracene	15.1	15	LINR	0.7	15.0
Benzo(g,h,i)perylene	15.3	15	LINR	2.0	15.0
Indeno(1,2,3-cd)pyrene	15.4	15	LINR	2.7	15.0
==========					
p-Terphenyl-d14	15.5	15	LINR	3.3	15.0

7

PAH ORGANIC CONTINUING CALIBRATION DATA

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field 163151

Lab Code : PEL Case No. SAS No: SDG No.: 2209178

Instrument ID: SLC01 CalibrationDate: 09/27/02 Time: 2352

Lab File ID: CCV3.D Init. Calib. Date: 09/19/02

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	15.6	15	LINR	4.0	15.0
1-Methylnaphthalene	14.4	15	LINR	4.0	15.0
2-Methylnaphthalene	15.4	15	LINR	2.7	15.0
Acenaphthene	14.4	15	LINR	4.0	15.0
Fluorene	15.5	15	LINR	3.3	15.0
Phenanthrene	15.2	15	LINR	1.3	15.0
Anthracene	16.1	15	LINR	7.3	15.0
Fluoranthene	15.4	15	LINR	2.7	15.0
Pyrene	15.5	15	LINR	3.3	15.0
Benzo(a)anthracene	15.4	15	LINR	2.7	15.0
Chrysene	15.3	15	LINR	2.0	15.0
Benzo(b)fluoranthene	15.4	15	LINR	2.7	15.0
Benzo(k)fluoranthene	15.5	15	LINR	3.3	15.0
Benzo(a)pyrene	15.4	15	LINR	2.7	15.0
Dibenz(a,h)anthracene	15.1	15	LINR	0.7	15.0
Benzo(g,h,i)perylene	15.2	15	LINR	1.3	15.0
Indeno(1,2,3-cd)pyrene	15.4	15	LINR	2.7	15.0
==========					
p-Terphenyl-d14	15.6	15	LINR	4.0	15.0

7SSC

PAH ORGANIC SECONDARY SOURCE CALIBRATION DATA

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field 163151

Lab Code : PEL Case No. SAS No: SDG No.: 2209178

Instrument ID: SLC01 CalibrationDate: 09/19/02 Time: 2257

Lab File ID: SECCCV.D Init. Calib. Date: 09/19/02

GC Column: Vydac 201TP5 ID: 4.6 (mm)

COMPOUND	SAMPLE AMOUNT	AMOUNT	CURVE	%D	MAX %D
Naphthalene	14.8	15	LINR	1.3	15.0
Acenaphthylene	14.1	15	LINR	6.0	15.0
1-Methylnaphthalene	15	15	LINR	0.0	15.0
2-Methylnaphthalene	14.9	15	LINR	0.7	15.0
Acenaphthene	13.8	15	LINR	8.0	15.0
Fluorene	14.7	15	LINR	2.0	15.0
Phenanthrene	14.5	15	LINR	3.3	15.0
Anthracene	15	15	LINR	0.0	15.0
Fluoranthene	14.7	15	LINR	2.0	15.0
Pyrene	14.8	15	LINR	1.3	15.0
Benzo(a)anthracene	14.6	15	LINR	2.7	15.0
Chrysene	14.8	15	LINR	1.3	15.0
Benzo(b)fluoranthene	14.7	15	LINR	2.0	15.0
Benzo(k)fluoranthene	14.8	15	LINR	1.3	15.0
Benzo(a)pyrene	14.2	15	LINR	5.3	15.0
Dibenz(a,h)anthracene	14.6	15	LINR	2.7	15.0
Benzo(g,h,i)perylene	14.8	15	LINR	1.3	15.0
Indeno(1,2,3-cd)pyrene	14.8	15	LINR	1.3	15.0
==========					
p-Terphenyl-d14	15.5	15	LINR	3.3	15.0

Chain of Custody Documentation

081002 1343

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

2209-178 M.A.

COC NUMBER
163151-064 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 Day Tank 1	163151	PEL / Darcy Wiseman	Bill Canelos / J.A Jones Env. Services	6219 Authority Ave. Building 1 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.):
Day Tank 1 3rd Quarter GW Sampling	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	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL	TAT (calendar days)	Volatiles by 8021	PAHs&1,1-Naphthalene&1,2-Naphthalene by 8310					SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	062-MW4-Q3-02-32	CEF-293-4	W	09/24/02	10:40	III/C	14	3	2				01	Grab		
2	062-MW9-Q3-02-32	CEF-293-9	W	09/23/02	17:30	III/C	14	3	2				02	Grab		
3	062-MW13-Q3-02-32	CEF-293-13	W	09/23/02	13:40	III/C	14	3	2				03	Grab		
4	062-MW20-Q3-02-32	CEF-293-20	W	09/23/02	10:45	III/C	14	9	6				04 05 06	Grab	MS / MSD	
5	062-MW22-Q3-02-32	CEF-293-22	W	09/23/02	11:35	III/C	14	3	2				07	Grab		
6	062-VEW2-Q3-02-32	VEW-2	W	09/23/02	16:00	III/C	14	3	2				08	Grab		
7	062-VEW3-Q3-02-32	VEW-3	W	09/23/02	16:45	III/C	14	3	2				09	Grab		
8	062-VEW4-Q3-02-32	VEW-4	W	09/23/02	12:25	III/C	14	3	2				10	Grab		
9	062-VEW5-Q3-02-32	VEW-5	W	09/23/02	15:15	III/C	14	3	2				11	Grab		
10	062-VEW6-Q3-02-32	VEW-6	W	09/23/02	14:30	III/C	14	3	2				12	Grab		

SAMPLER(S) AND COMPANY: (please print)	COURIER AND SHIPPING NUMBER:	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:
Randy Dumaop / Roger Deisler J.A. Jones Environmental Services	Federal Express TRK #790077916377, 790077916447, 790077916469, 790077916539 . (4 Coolers)	Temp upon rec't 4°C pH<2(8021) Xtra container for 8310

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature: R.Dumaop	9/24/02	14:00	Printed Name and Signature: Federal Express	9/24/02	14:00
Printed Name and Signature:			Printed Name and Signature: Stani Floyd	9-25-02	11:20
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

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

2209-178 m.m.

COC NUMBER: 163151-064 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 Day Tank 1	163151	PEL / Darcy Wiseman	Bill Canelos / J.A Jones Env. Services	6219 Authority Ave. Building 1 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.):
Day Tank 1 3rd Quarter GW Sampling	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	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL	TAT (calendar days)	Volatiles by 8021	PAHs&1,1-Naphthalene&1,2-Naphthalene by 8310					SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	062-VEW7-Q3-02-32	VEW-7	W	09/24/02	11:25	III/C	14	3	2				13	Grab		
2	062-VEW8-Q3-02-32	VEW-8	W	09/23/02	18:15	III/C	14	3	2				14	Grab		
3	062-DUP-Q3-02-32	Duplicate	W	09/23/02	NA	III/C	14	3	2				15	Grab		
4	062-EQB-Q3-02-32	Equipment Blank	W	09/23/02	12:55	III/C	14	3	2				16	Grab		
5	062-TB-Q3-02-32	Trip Blank	W	NA	NA	III/C	14	1					17	Grab	prepared by Lab	
6	NA	Temperature Blank	W	NA	NA	III/C	14			4				Grab	prepared by Lab	
7																
8																
9																
10																
11																

SAMPLER(S) AND COMPANY: (please print)	COURIER AND SHIPPING NUMBER:	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:
Randy Dumaop / Roger Deisler J.A. Jones Environmental Services	Federal Express TRK #790077916377, 790077916447, 790077916469, 790077916539 . (4 Coolers)	

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature: R.Dumaop	9/24/02	14:00	Printed Name and Signature: Federal Express	9/24/02	14:00
Printed Name and Signature:			Printed Name and Signature: Stani Floyd	9-25-02	11:20
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

PEL LABS SAMPLE LOG IN SHEET

Project # 2209-178

Client Information

Client: CH2M Hill	Date Rec'd: 09/25/02
Project: Cecil Field	Due Date: 10/09/02
Log In Tech: NOA	Rec'd via: Client Crosstown FedEx
Comments:	Other:

Sample Verification

	YES	NO		YES	NO
Samples/Cooler Secure?	✓		All Smples on COC Accounted For?	✓	
Samples Rec'd on Ice?	✓		All Samples Rec'd Intact?	✓	
Temperature WNL?	✓		Sample Vol. Suff. For Analysis?	✓	
Temperature of Samples(°C)	4°C		Samples Rec'd W/I Hold Time?	✓	
pH Verified?	✓		Are All Samples to be Analyzed?	✓	
pH WNL? pH2(8021)	✓		Correct Sample Containers?	✓	
Soil Origin Domestic?	NA		Soil Origin Foreign?	NA	

COC Verification

	YES	NO		YES	NO
Site Location/Project on COC?	✓		Samplers Initials on COC?	✓	
Client Project # on COC?	✓		Sample Time/Date Indicated?	✓	
Project Mgr. Indicated on COC?	✓		TAT requested: STD / RUSH	✓	
COC Relinquished/Dated by Client?	✓		Client Requests Verbal Results?	✓	
COC Received/Dated by PEL?	✓		Client Requests Fax'd Results?	✓	
			PEL to Conduct ALL Analyses?	✓	
			Specific Subcontract Indicated?		

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# 2209-178

By Nak

Client/Project CH2MHill / Recl

Date 09/25/02

PEL Sample Number	H2SO4 pH<2	HNO3 pH<2	NaOH pH>12	ZnAC NaOH pH>9	HCL pH<2	Other ____ pH ____
2209-178-01					3 pH<2	
02						
03						
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17					3 pH<2	

CH2MHill 2209-178 Cecil Field

Date	Sample #	Parameter	Rel	Rec	Date	Time
9/26/02	01-17	8021 (w)	SF	JSA	9-27-02	11:00
9/28/02	01-17	8021 (w)	JSA	SF	9-27-02	15:05
9/25/02	01-16	8310 (w)	SF	Ant	9/26/02	1520
	01-16	8310 (w)	consumed			
9/27/02	01-17	8021 (w)	SF	JSA	9-28-02	11:30
9/29/02	01-17	8021 (w)	JSA	SF	9-28-02	14:05
	01-17	8021 (w)	SF	JSA	10-2-02	14:20
	01-17	8021 (w)	JSA	SF	10-2-02	16:10

Addendum

081002 1343

Letter of Acceptance

Customer Name:	CH2M Hill
Date and Time Received:	9/25/02 11:20:00 AM
Date to be Reported:	10/9/02
Laboratory Submission Number/SDG:	2209178
Project:	Cecil Field 163151

Samples: The submission consisted of 17 samples with sample identification shown in the attached data tables.

Tests: The Samples will be analyzed for EPA methods: 8021, 8310.

Sample Custody/COC discrepancies:

None.

Notes: Due to database limitations, the sample Ids have been truncated.

Distribution of Report to:

CH2M Hill
Attn: Tatiana Romanova

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 not necessarily indicative of the qualities of apparently identical or similar materials

Log-in Report

Level: 4

Total of: 33 analyses on 17 samples (including QC) *27-Sep-02*

Report/SDG #: 2209178

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
062MW4Q302	220917801	CEF-293-4	W	9/24/02 10:40:00 AM	9/25/02 11:20:00 AM
Method					
8021	VOH			8021	
8310	PAH			8310	

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
062MW9Q302	220917802	CEF-293-9	W	9/23/02 5:30:00 PM	9/25/02 11:20:00 AM
Method					
8021	VOH			8021	
8310	PAH			8310	

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
062MW13Q302	220917803	CEF-293-13	W	9/23/02 1:40:00 PM	9/25/02 11:20:00 AM
Method					
8021	VOH			8021	
8310	PAH			8310	

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
062MW20Q302	220917804	CEF-293-20	W	9/23/02 10:45:00 AM	9/25/02 11:20:00 AM
Method					
8021	VOH			8021	
8310	PAH			8310	

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
062MW20Q302MS	220917805	CEF-293-20	W	9/23/02 10:45:00 AM	9/25/02 11:20:00 AM
Method					
8021	VOH			8021	
8310	PAH			8310	

Report/SDG #: 2209178

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
062MW20Q302SD	220917806	CEF-293-20	W	9/23/02 10:45:00 AM	9/25/02 11:20:00 AM
Method					
8021	VOH			8021	
8310	PAH			8310	

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
062MW22Q302	220917807	CEF-293-22	W	9/23/02 11:35:00 AM	9/25/02 11:20:00 AM
Method					
8021	VOH			8021	
8310	PAH			8310	

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
062VEW2Q302	220917808	VEW-2	W	9/23/02 4:00:00 PM	9/25/02 11:20:00 AM
Method					
8021	VOH			8021	
8310	PAH			8310	

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
062VEW3Q302	220917809	VEW-3	W	9/23/02 4:45:00 PM	9/25/02 11:20:00 AM
Method					
8021	VOH			8021	
8310	PAH			8310	

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
062VEW4Q302	220917810	VEW-4	W	9/23/02 12:25:00 PM	9/25/02 11:20:00 AM
Method					
8021	VOH			8021	
8310	PAH			8310	

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
062VEW5Q302	220917811	VEW-5	W	9/23/02 3:15:00 PM	9/25/02 11:20:00 AM
Method					
8021	VOH			8021	
8310	PAH			8310	

Report/SDG #: 2209178

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
062VEW6Q302	220917812	VEW-6	W	9/23/02 2:30:00 PM	9/25/02 11:20:00 AM
Method					
8021	VOH			8021	
8310	PAH			8310	

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
062VEW7Q302	220917813	VEW-7	W	9/24/02 11:25:00 AM	9/25/02 11:20:00 AM
Method					
8021	VOH			8021	
8310	PAH			8310	

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
062VEW8Q302	220917814	VEW-8	W	9/23/02 6:15:00 PM	9/25/02 11:20:00 AM
Method					
8021	VOH			8021	
8310	PAH			8310	

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
062DUPQ302	220917815	Duplicate	W	9/23/02	9/25/02 11:20:00 AM
Method					
8021	VOH			8021	
8310	PAH			8310	

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
062EQBQ302	220917816	Equipment	W	9/23/02 12:55:00 PM	9/25/02 11:20:00 AM
Method					
8021	VOH			8021	
8310	PAH			8310	

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
062TBQ302	220917817	Trip Blank	W	9/25/02	9/25/02 11:20:00 AM
Method					
8021	VOH			8021	

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

2209-178 M.A.

COC NUMBER
163151-064 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 Day Tank 1	163151	PEL / Darcy Wiseman	Bill Canelos / J.A Jones Env. Services	6219 Authority Ave. Building 1 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.):
Day Tank 1 3rd Quarter GW Sampling	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	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL	TAT (calendar days)	Volatiles by 8021	PAHs&1,1-Naphthalene&1,2-Naphthalene by 8310					SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	062-MW4-Q3-02-32	CEF-293-4	W	09/24/02	10:40	III/C	14	3	2				01	Grab		
2	062-MW9-Q3-02-32	CEF-293-9	W	09/23/02	17:30	III/C	14	3	2				02	Grab		
3	062-MW13-Q3-02-32	CEF-293-13	W	09/23/02	13:40	III/C	14	3	2				03	Grab		
4	062-MW20-Q3-02-32	CEF-293-20	W	09/23/02	10:45	III/C	14	9	6				04 05 06	Grab	MS / MSD	
5	062-MW22-Q3-02-32	CEF-293-22	W	09/23/02	11:35	III/C	14	3	2				07	Grab		
6	062-VEW2-Q3-02-32	VEW-2	W	09/23/02	16:00	III/C	14	3	2				08	Grab		
7	062-VEW3-Q3-02-32	VEW-3	W	09/23/02	16:45	III/C	14	3	2				09	Grab		
8	062-VEW4-Q3-02-32	VEW-4	W	09/23/02	12:25	III/C	14	3	2				10	Grab		
9	062-VEW5-Q3-02-32	VEW-5	W	09/23/02	15:15	III/C	14	3	2				11	Grab		
10	062-VEW6-Q3-02-32	VEW-6	W	09/23/02	14:30	III/C	14	3	2				12	Grab		

SAMPLER(S) AND COMPANY: (please print)	COURIER AND SHIPPING NUMBER:	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:
Randy Dumaop / Roger Deisler J.A. Jones Environmental Services	Federal Express TRK #790077916377, 790077916447, 790077916469, 790077916539 . (4 Coolers)	Temp upon rec'd 4°C pH<2 (8021) Xtra container for 8310

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature: R.Dumaop	9/24/02	14:00	Printed Name and Signature: Federal Express	9/24/02	14:00
Printed Name and Signature:			Printed Name and Signature: Stan Floyd	9-25-02	11:20
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

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

2209-178 m.1.

COC NUMBER
163151.064 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 Day Tank 1	163151	PEL / Darcy Wiseman	Bill Canelos / J.A Jones Env. Services	6219 Authority Ave. Building 1 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.):
Day Tank 1 3rd Quarter GW Sampling	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	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL	TAT (calendar days)	Volatiles by 8021	PAHs&1,1-Naphthalene&1,2-Naphthalene by 8310					SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	062-VEW7-Q3-02-32	VEW-7	W	09/24/02	11:25	III/C	14	3	2				13	Grab		
2	062-VEW8-Q3-02-32	VEW-8	W	09/23/02	18:15	III/C	14	3	2				14	Grab		
3	062-DUP-Q3-02-32	Duplicate	W	09/23/02	NA	III/C	14	3	2				15	Grab		
4	062-EQB-Q3-02-32	Equipment Blank	W	09/23/02	12:55	III/C	14	3	2				16	Grab		
5	062-TB-Q3-02-32	Trip Blank	W	NA	NA	III/C	14	1					17	Grab	prepared by Lab	
6	NA	Temperature Blank	W	NA	NA	III/C	14			4				Grab	prepared by Lab	
7																
8																
9																
10																
11																

SAMPLER(S) AND COMPANY: (please print)	COURIER AND SHIPPING NUMBER:	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:
Randy Dumaop / Roger Deisler J.A. Jones Environmental Services	Federal Express TRK #790077916377, 790077916447, 790077916469, 790077916539 . (4 Coolers)	

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature:			Printed Name and Signature:		
R.Dumaop	9/24/02	14:00	Federal Express	9/24/02	14:00
Printed Name and Signature:			Printed Name and Signature:		
			Stani Floyd	9-25-02	11:20
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

FAX MESSAGE

1010000 1000101 1100110
PEL Laboratories, Inc.

4420 Pendola Point Road
Tampa, Florida 33619
Phone: (813) 247-2805
Fax: (813) 248-1537

Date: 10/2/02

To: Bonnie Hogue

Company: CCI

Number: 678-519-8106

From: Darcy Weisman

This transmittal consists of ____ page(s), exclusive of the cover sheet.

Notes: Sample Acceptances

4420 Pendola Point Road • Tampa, Florida 33619
(813) 247-2805 • FAX: (813) 248-1537

2209-178
Raw Data
GC Volatile Organics
(Method 8021)

VGCS B021 VS090202 9/7/02 MWS

	BLK	ES 6225
	500PPT	SURR 6239
	1 PPB	CCV 6210A
	2 PPB	GEC 6170, 6172
	5 PPB	
	10 PPB	
	20 PPB	
12	30 PPB	
13	30 PPB R	
14	40 PPB	
15	40 PPB R	
16	50 PPB	
1	50 PPB R	
2	100 PPB	
3	100 PPB R	
4	SECS1	
5	SECS2	
6	SECS3	
7	SEC S3	

9/7/01

120

VGC5 8021 V5092702 9-27-02

1 CCV 51 ISTD - 6275
2 CCV 52 SURR - 6304
3 LCS 51 QC - 6170,
4 BLK 51 Cal - 6210
5 BLK 51 MS
6 BLK 51 SD
7 220917801
8 220917802
9 220917803
10 CBLK51
11 220917817
12 220917804 — hitover cal cis
13 220917807
14 CCV 53
15 CCV 54
16 220917808
1 09
2 10
3 11
4 12
5 13 ?
6 14 ? ✓
7 220916308 R
8 CCV 55
9 CCV 56

VGC5 | 8021 | V5092802 | 9-28-02 | JSA

1	CCV 51
2	CCV 52
3	LCS 51
4	BLK 51
5	2209178 05 MS
6	2209178 06 SD
7	220917804 R
8	220917814 R
9	220917815
10	CBLK51
11	220917816
12	220917813 R
13	220917812 R
14	CCV 53
15	CCV 54
16	220917803 R
1	220917807 R
2	220917808 R
3	CCV 55
4	CCV 56

ISTD - 6275
SURR - 6304
QC - 6170, 6172
Cal - 6210A

9-30-02

VOS#	Date Prep.	By	Description	Origin/Lot #	Date Rec'd	Dilutent/Lot #	Amt. for Dil.	Final Vol.	Final Conc.	Discarded
6169	5/28/02	MST	8260 SURR	VOS6102B	3/22/02	B&J CE113 MeOH	1.0ml	100ml	25ppm	
6170	6/3/02	AMH	8021 GAS QC	VOS6165D VOS5573D	—	MeOH B&J CE113	500µL EACH	100ml	10µg/ml	
6171	6/3/02	AMH	8021 MAIN QC	VOS 6027C VOS 6023A VOS 6024B VOS6026C	—	MeOH B&J CE 113	500µl each	100ml	10µg/ml	KM 6/3/02
6172	6/3/02	AMH	8021 MAIN QC	VOS5738D VOS6024A VOS6023B VOS6027B	—	MeOH B&J CE 113	500µl each	100ml	10µg/l	
6173	6/5/02	MWJ	8021 CAL MIX LOW @ 10ug/mL	6097	—	MEOH B+J CE113	1.0mL	10mL	1ug/mL	
6174	6/10/02	JW	8021 Archon IS	~~VOS5798D~~ ~~VOS6098A~~ ~~VOS6109B~~	6130A-C 6120A 6129A-D	MeOH B+J CE113	~~3.75ml~~ ~~3.75ml~~ 4.5 each	50ml	240µl/ml ~~150µg/ml~~	
6175	6/10/02	JW	8021 Archon IS	6130A-C 6120A 6129A-D		MeOH B+J CE113	6.25ml	10ml	150µl/ml	
						MG 6/12/02				

AccuStandard, Inc. 125 Market Street • New Haven, CT 06513 Phone 800-442-5290 • 203-786-5290
M-502B-10X
Volatile Organic Cmpnds - Gases
2.0 mg/mL in MeOH
Lot: B2050198
Exp: Jun 21,2003
Rec'd 6/25/02 1 mL
VOO 6209
6 comps.
CARCINOGENIC

AccuStandard, Inc. 125 Market Street • New Haven, CT 06513 Phone 800-442-5290 • 203-786-5290
M-502B-10X
Volatile Organic Cmpnds - Gases
2.0 mg/mL in MeOH
Lot: B2050198
Exp: Jun 21,2003
VOO 6211
1 mL
6 comps.
CARCINOGENIC

VOS#	Date Prep.	By				t/Lot #	Amt. for Dil.	Final Vol.	Final Conc.	Discarded
6209 A-E	6/25/02	KM							2000 ug/ml	
6210 A 6210 B	6/25/02		VGC (8021) Cal mix	6029-B 6031-B 6028-A 6030-B 6204-C	6199C 6122A 6123B 6119B	MeOH P+T CE113	each 500µl	100ml	10µg/ml	
6211	6/25/02	KM								
6212	6/25/0		8021 low (A) Cal mix	6210 A	—	MeOH P+T CE113	(A) 1.0ml 2.5ml	25ml 10ml	1µl/ml	
6213	6/26/02	MS	8260 Main mix (Primary)	524MM12	6/26/02 exp 11/21/03	—	—	—	2000ppm	—
6214	6/26/02	MS	Acrolein Acrylonitrile mix (Primary)	AAM65	6/26/02 exp: 8/28/02	—	—	—	10,000 ppm	—
6215	6/26/02	MS	8260 ADD-ONS #1 MIX (Primary)	A0112	6/26/02 exp: 6/29/03	—	—	—	2000ppm	—
6216	6/26/02	MS	8260 PEL VOA MIX-1 (Primary)	PELV104	6/26/02 exp: 10/22/03	—	—	—	2000 ppm	—
6217	6/26/02	MS	8260 (APIX) PEL VOA MIX3 (Primary)	PELV303	6/26/02 exp: 9/25/03	—	—	—	various	
6218	6/26/02	MS	8260 PEL VOA MIX 4	PELV403	exp: 10/16/03	—	—	—	2000 ppm	

VOS#	Date Prep.	By	Description	Origin/Lot #	Date Rec'd	Diluent/Lot #	Amt. for Dil.				
6267 A-D	—	AMH	~~RE~~ AMH Fluorobenzene mix	RESTEK Cat # 30030 Lot # A021591	8-5-02	—	—	—	2,000 µg/mL		EXP 12/01
6268 A-B	—	AMH	BFB	RESTEK Cat # 30225 Lot # A021636	8-5-02	—	—	—	2,000 µg/mL		EXP 12/04
6269 A-C	—	AMH	502.2 Cal mix #1	RESTEK Cat # 30042 Lot # A023098	8-5-02	—	—	—	2,000 µg/mL		EXP 12/0
6270 A-B	—	AMH	purgable halocarbons liquids	Accustandard M-601A-10X Lot # B1050144	8-6-02	MeOH	—	—	2,000 µg/mL each		Exp 8-1-
6271 A-C	—	AMH	Gasoline Range Hydrocarbons	Accustandard S-6034-10X Lot # B1070179	8-6-02	MeOH	—	—	2000 µg/mL each		EXP 8-1-
6272 A-C	—	AMH	Trihalomethanes mix	Accustandard M-501-10X Lot # A8080217-3C	8-6-02	MeOH	—	—	2000 µg/mL each		EXP 8-15
6273	8-8-02	AMH	HIGH LEVEL SPIKE	6193A 6025B 6165A 6252A 6194A ~~5734~~	—	MeOH B&J CE441	0.625 mL each	250 mL	5 µg/mL		EXP 12-1
6274	8-14-02	AMH	HIGH Level SURROGATE	6067C 6205A	—	MeOH B&J CE441	0.750 mL each	100 mL	15 µg/mL		E 2-
6275	8-21-02	MWJ	GC VOA IS	~~6230A~~ ~~6195D~~ - BCM ~~6231~~ - FlBenz 6267A		MeOH B+J CE441	~~MeOH~~ 1.5 mL each	100 mL	30 µg/mL		
6276	8-21-02	AMH	LOW CAL STD	6210A	—	MeOH B&J CE441	2.5 mL	25 mL	1 µg/mL		E 12-

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	MSJ	8260 QC A/A + Ketones	6286, 6291	–	MeOH B&J CE113	500ulr	50ml	100 ppm		
6298	8/27/02	MSJ	8260 QC GASES	6209B 6208B	–	" "	1.25ml each	50ml	50 ppm		
6299	8/27/02	JP	Ultra. Sci. Surr Std Mix	R-1594	8/27/02	—	—	—	2500µg/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	—	—	—	2000µg/mL		
6301 A-D	9/5/02	JP	Restek 30462 1,1,2-TC-1,2,2-TFA	A022474	9/5/02	—	—	—	2000µg/mL		
6302	9/10/02	MSJ	8260 IS	6017B	–	B&J CE441	.5ml	50ml	250 ppm	exp. 3/10/02	
6303	9/10/02	MSJ	8260 IS (for CIP)	6017B	–	B&J CE441	25ulr	25ml	25 ppm	exp 3/10/02	
6304	9-12-02	AMH	8021 SURR	6200A 1,4 DCB 6205B 4 BFB	—	MeOH CE441	1.0mL each	100mL	20µg/mL		EXP 3-12-
6305	9-12-02	AMH	8021 LOW SURR	6304	—	MeOH CE441	1.25mL ~~2.5 mL~~ Amt	25mL	1 µg/mL ~~2 µg/mL~~ Amt		EXP ~~3-12~~ 3-12-
6306	9-24-02	MSJ	8260 SURR	VOS 6102		MeOH B&J CE441	1.0ml	100ml	25ppm		

Data File: \\REINHARD\ee\chem\vgc5.i\V5090702Wcal.b\500PPT.D
Report Date: 04-Oct-2002 12:08

PEL Laboratories, Inc.

Data file : \\REINHARD\ee\chem\vgc5.i\V5090702Wcal.b\500PPT.D
Lab Smp Id: 500PPT Client Smp ID: 500PPT
Inj Date : 07-SEP-2002 10:30
Operator : Inst ID: vgc5.i
Smp Info : 500PPT
Misc Info :
Comment :
Method : \\REINHARD\ee\chem\vgc5.i\V5090702Wcal.b\8021.m
Meth Date : 04-Oct-2002 12:08 mjacobs Quant Type: ISTD
Cal Date : 07-SEP-2002 10:30 Cal File: 500PPT.D
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.04
Processing Host: REINHARD

Concentration Formula: Amt * DF * Vf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	Final Volume
Vo	5.000	Sample Volume

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
	1 dichlorodifluoromethane	AIB1A	4.643	4.643	(0.368)	188890	0.50000	0.33(a)
	2 chloromethane	AIB1A	5.173	5.173	(0.410)	113335	0.50000	0.45(a)
	3 vinyl chloride	AIB1A	5.466	5.466	(0.434)	222215	0.50000	0.41(a)
	4 bromomethane	AIB1A	6.436	6.436	(0.511)	86241	0.50000	0.25(a)
	5 chloroethane	AIB1A	6.610	6.610	(0.524)	400071	0.50000	0.44(a)
	6 trichlorofluoromethane	AIB1A	7.083	7.083	(0.562)	423019	0.50000	0.45(a)
	7 1,1,2trichlorotrifluoroethane	AIB1A	8.006	8.006	(0.635)	349575	0.50000	0.40
	8 1,1-dichloroethene	AIB1A	8.343	8.343	(0.662)	669049	0.50000	0.48(aM)
	9 methylene chloride	AIB1A	9.196	9.196	(0.730)	1509426	0.50000	0.92(aM)
	10 MTBE	FID2B	9.483	9.483	(0.656)	5028	0.50000	0.44(aM)
	11 trans 1,2-dichloroethene	AIB1A	9.806	9.806	(0.778)	673449	0.50000	0.52(a)
M	12 1,2-Dichloroethene (tot)	AIB1A				1258414	1.00000	1.0
	13 1,1-dichloroethane	AIB1A	10.666	10.666	(0.846)	612180	0.50000	0.47(a)
	14 cis-1,2-dichloroethene	AIB1A	11.920	11.920	(0.946)	584965	0.50000	0.48(a)
	15 chloroform	AIB1A	12.246	12.246	(0.971)	792025	0.50000	0.52(a)
*	16 Bromochloromethane	AIB1A	12.606	12.606	(1.000)	26643257	30.0000	

Data File: \\REINHARD\ee\chem\vgc5.i\V5090702Wcal.b\500PPT.D
Report Date: 04-Oct-2002 12:08

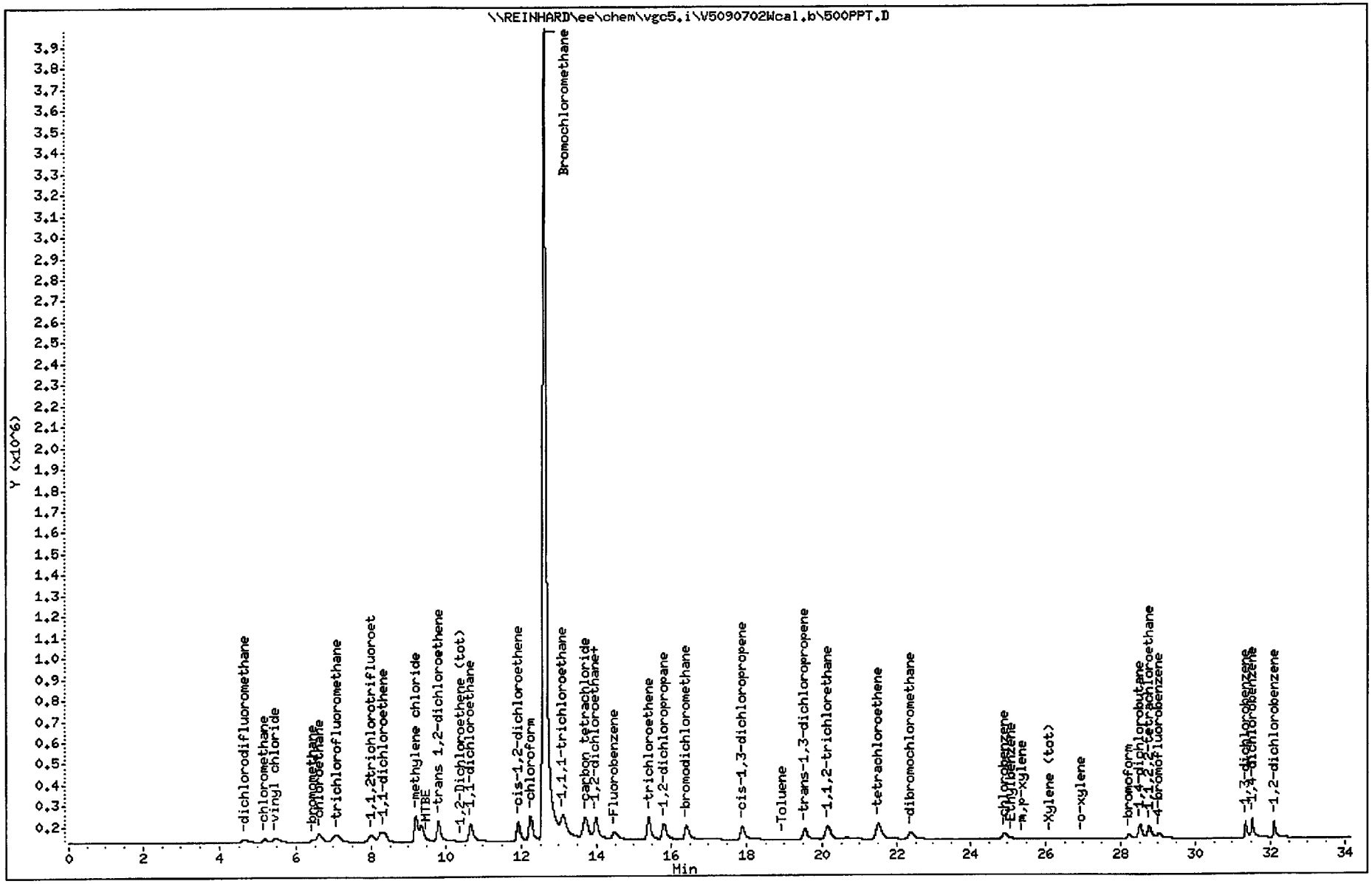
	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
	17 1,1,1-trichloroethane	AIB1A	13.110	13.110	(1.040)	850833	0.50000	0.61(a)
	18 carbon tetrachloride	AIB1A	13.696	13.696	(1.086)	828556	0.50000	0.53(a)
	19 1,2-dichloroethane	AIB1A	13.976	13.976	(1.109)	693165	0.50000	0.55(a)
	20 Benzene	FID2B	14.026	14.026	(0.970)	17928	0.50000	0.55(a)
*	21 Fluorobenzene	FID2B	14.453	14.453	(1.000)	675361	30.0000	
	22 trichloroethene	AIB1A	15.403	15.403	(1.222)	766366	0.50000	0.53(a)
	23 1,2-dichloropropane	AIB1A	15.803	15.803	(1.254)	610442	0.50000	0.54(a)
	24 bromodichloromethane	AIB1A	16.413	16.413	(1.302)	553129	0.50000	0.51(a)
	25 cis-1,3-dichloropropene	AIB1A	17.893	17.893	(1.419)	555564	0.50000	0.51(a)
	26 Toluene	FID2B	18.946	18.946	(1.311)	14916	0.50000	0.52(a)
	27 trans-1,3-dichloropropene	AIB1A	19.536	19.536	(1.550)	467537	0.50000	0.50(a)
	28 1,1,2-trichlorethane	AIB1A	20.146	20.146	(1.598)	548090	0.50000	0.47(a)
	29 tetrachloroethene	AIB1A	21.500	21.500	(1.705)	838853	0.50000	0.52(a)
	30 dibromochloromethane	AIB1A	22.376	22.376	(1.775)	340316	0.50000	0.43(a)
	31 chlorobenzene	AIB1A	24.913	24.913	(1.976)	266546	0.50000	0.44(a)
	32 Ethylbenzene	FID2B	25.083	25.083	(1.735)	14414	0.50000	0.53(a)
	33 m,p-xylene	FID2B	25.373	25.373	(1.756)	30146	1.00000	1.0(a)
M	34 Xylene (tot)	FID2B				42387	1.50000	1.5(a)
	35 o-xylene	FID2B	26.953	26.953	(1.865)	12241	0.50000	0.50(a)
	36 bromoform	AIB1A	28.226	28.226	(2.239)	143494	0.50000	0.34(a)
$	37 1,4-dichlorobutane	AIB1A	28.516	28.516	(2.262)	417658	0.50000	0.54(a)
	38 1,1,2,2-tetrachloroethane	AIB1A	28.763	28.763	(2.282)	439917	0.50000	0.55(a)
$	39 4-bromofluorobenzene	FID2B	28.990	28.990	(2.006)	15497	0.50000	0.57(a)
	40 1,3-dichlorobenzene	AIB1A	31.346	31.346	(2.486)	313044	0.50000	0.46(a)
	41 1,4-dichlorobenzene	AIB1A	31.516	31.516	(2.500)	475388	0.50000	0.54(a)
	42 1,2-dichlorobenzene	AIB1A	32.100	32.100	(2.546)	364274	0.50000	0.50(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\REINHARD\ee\chem\vgc5.i\V5090702Wcal.b\500PPT.D
Date : 07-SEP-2002 10:30
Client ID: 500PPT
Sample Info: 500PPT
Purge Volume: 5.0
Column phase: RTX 502.2

Instrument: vgc5.i
Operator:
Column diameter: 0.53



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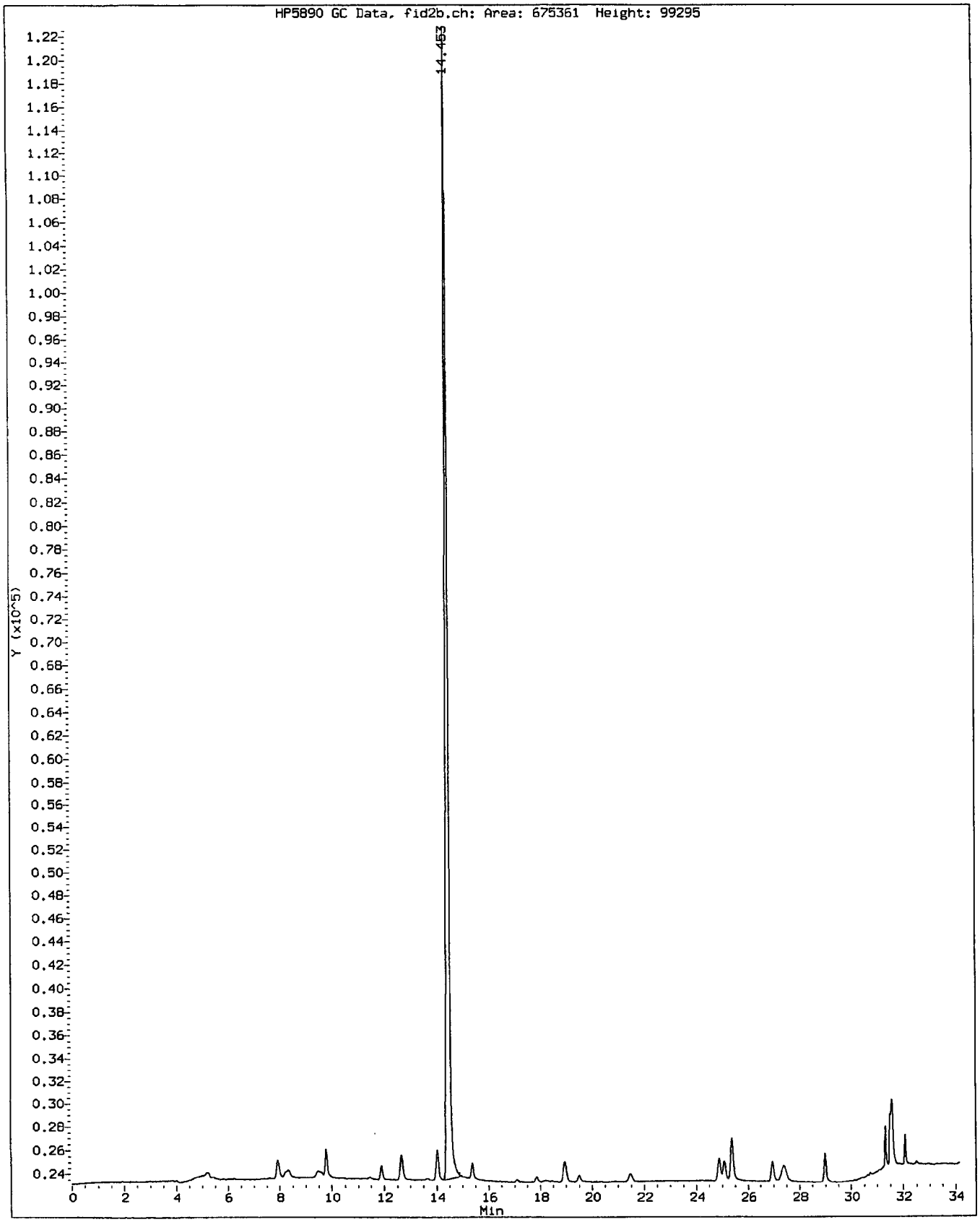
Injection Date: 07-SEP-2002 10:30
Instrument: vgc5.i
Client Sample ID: 500PPT

Compound: Fluorobenzene
CAS Number: 462-06-6



Data File: \\REINHARD\ee\chem\vgc5.i\V5090702Wcal.b\1PPB.D
Report Date: 04-Oct-2002 12:08

PEL Laboratories, Inc.

Data file : \\REINHARD\ee\chem\vgc5.i\V5090702Wcal.b\1PPB.D
Lab Smp Id: 1PPB Client Smp ID: 1PPB
Inj Date : 07-SEP-2002 11:13
Operator : Inst ID: vgc5.i
Smp Info : 1PPB
Misc Info :
Comment :
Method : \\REINHARD\ee\chem\vgc5.i\V5090702Wcal.b\8021.m
Meth Date : 04-Oct-2002 12:08 mjacobs Quant Type: ISTD
Cal Date : 07-SEP-2002 10:30 Cal File: 500PPT.D
Als bottle: 4 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.04
Processing Host: REINHARD

Concentration Formula: Amt * DF * Vf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	Final Volume
Vo	5.000	Sample Volume

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
	1 dichlorodifluoromethane	AIB1A	4.640	4.640	(0.368)	407020	1.00000	0.76(a)
	2 chloromethane	AIB1A	5.173	5.173	(0.410)	269440	1.00000	1.1
	3 vinyl chloride	AIB1A	5.470	5.470	(0.434)	483667	1.00000	0.94(a)
	4 bromomethane	AIB1A	6.430	6.430	(0.510)	227550	1.00000	0.68(a)
	5 chloroethane	AIB1A	6.616	6.616	(0.525)	863599	1.00000	1.00
	6 trichlorofluoromethane	AIB1A	7.086	7.086	(0.562)	884234	1.00000	0.99(a)
	7 1,1,2trichlorotrifluoroethane	AIB1A	8.010	8.010	(0.635)	797274	1.00000	0.96
	8 1,1-dichloroethene	AIB1A	8.350	8.350	(0.662)	1413128	1.00000	1.0(M)
	9 methylene chloride	AIB1A	9.196	9.196	(0.729)	2248295	1.00000	1.4(aM)
	10 MTBE	FID2B	9.473	9.473	(0.655)	13249	1.00000	1.2
	11 trans 1,2-dichloroethene	AIB1A	9.810	9.810	(0.778)	1399367	1.00000	1.1
M	12 1,2-Dichloroethene (tot)	AIB1A				2655650	2.00000	2.2
	13 1,1-dichloroethane	AIB1A	10.663	10.663	(0.846)	1334986	1.00000	1.1
	14 cis-1,2-dichloroethene	AIB1A	11.923	11.923	(0.946)	1256283	1.00000	1.1
	15 chloroform	AIB1A	12.250	12.250	(0.971)	1647390	1.00000	1.1
*	16 Bromochloromethane	AIB1A	12.610	12.610	(1.000)	25386355	30.0000	

Data File: \\REINHARD\ee\chem\vgc5.i\V5090702Wcal.b\1PPB.D
Report Date: 04-Oct-2002 12:08

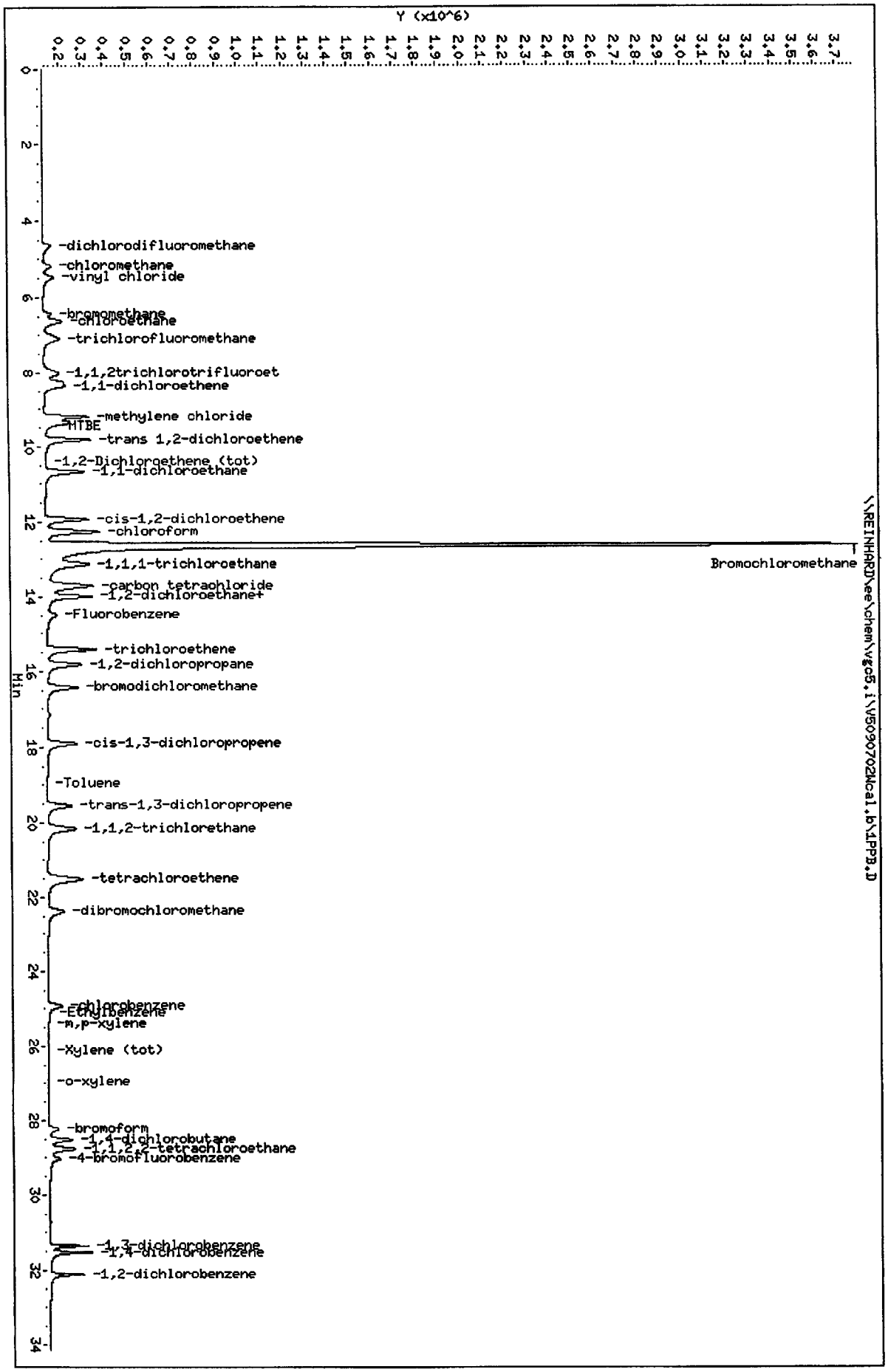
	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
	17 1,1,1-trichloroethane	AIB1A	13.123	13.123	(1.041)	1554986	1.00000	1.2
	18 carbon tetrachloride	AIB1A	13.703	13.703	(1.087)	1671990	1.00000	1.1
	19 1,2-dichloroethane	AIB1A	13.980	13.980	(1.109)	1371150	1.00000	1.1
	20 Benzene	FID2B	14.030	14.030	(0.970)	32462	1.00000	1.1
*	21 Fluorobenzene	FID2B	14.460	14.460	(1.000)	628281	30.0000	
	22 trichloroethene	AIB1A	15.406	15.406	(1.222)	1574014	1.00000	1.1
	23 1,2-dichloropropane	AIB1A	15.816	15.816	(1.254)	1180383	1.00000	1.1
	24 bromodichloromethane	AIB1A	16.420	16.420	(1.302)	1109635	1.00000	1.1
	25 cis-1,3-dichloropropene	AIB1A	17.896	17.896	(1.419)	1128863	1.00000	1.1
	26 Toluene	FID2B	18.956	18.956	(1.311)	28605	1.00000	1.1
	27 trans-1,3-dichloropropene	AIB1A	19.546	19.546	(1.550)	958209	1.00000	1.1
	28 1,1,2-trichlorethane	AIB1A	20.150	20.150	(1.598)	1168143	1.00000	1.0
	29 tetrachloroethene	AIB1A	21.510	21.510	(1.706)	1740507	1.00000	1.1
	30 dibromochloromethane	AIB1A	22.376	22.376	(1.775)	736396	1.00000	0.98(a)
	31 chlorobenzene	AIB1A	24.916	24.916	(1.976)	582335	1.00000	1.0
	32 Ethylbenzene	FID2B	25.086	25.086	(1.735)	27724	1.00000	1.1
	33 m,p-xylene	FID2B	25.380	25.380	(1.755)	57407	2.00000	2.1
M	34 Xylene (tot)	FID2B				81215	3.00000	3.2
	35 o-xylene	FID2B	26.956	26.956	(1.864)	23808	1.00000	1.0
	36 bromoform	AIB1A	28.226	28.226	(2.238)	332914	1.00000	0.84(a)
$	37 1,4-dichlorobutane	AIB1A	28.520	28.520	(2.262)	734745	1.00000	1.0
	38 1,1,2,2-tetrachloroethane	AIB1A	28.766	28.766	(2.281)	814834	1.00000	1.1
$	39 4-bromofluorobenzene	FID2B	28.990	28.990	(2.005)	25714	1.00000	1.0
	40 1,3-dichlorobenzene	AIB1A	31.350	31.350	(2.486)	665470	1.00000	1.0
	41 1,4-dichlorobenzene	AIB1A	31.516	31.516	(2.499)	958553	1.00000	1.1
	42 1,2-dichlorobenzene	AIB1A	32.103	32.103	(2.546)	727417	1.00000	1.0

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\REINHARD\ee\chem\vgc5.i\V5090702Ncal.b\1PPB.D
Date : 07-SEP-2002 11:13
Client ID: 1PPB
Sample Info: 1PPB
Purge Volume: 5.0
Column phase: RTX 502.2

Instrument: vgc5.i
Operator:
Column diameter: 0.53



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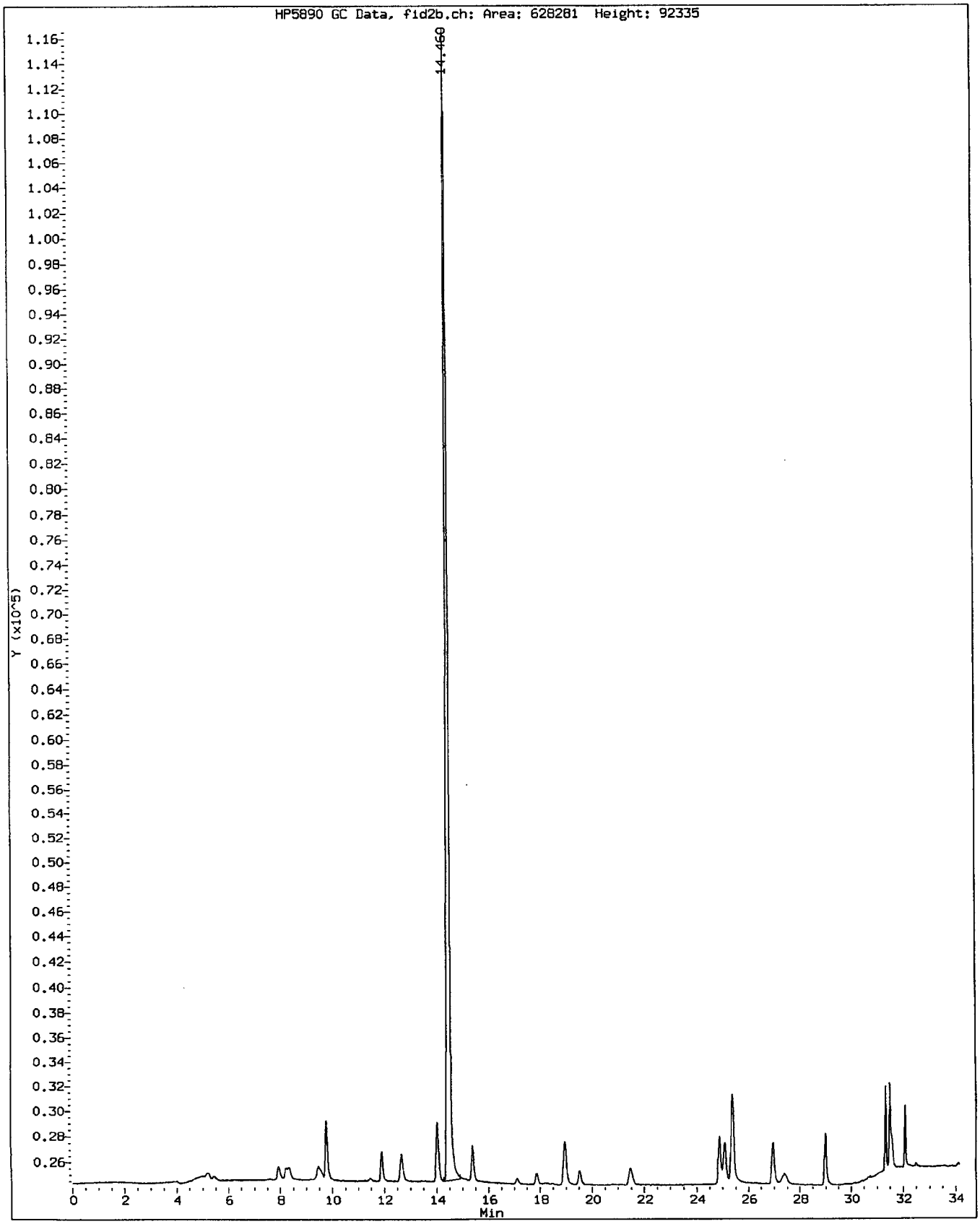
Injection Date: 07-SEP-2002 11:13
Instrument: vgc5.i
Client Sample ID: 1PPB

Compound: Fluorobenzene
CAS Number: 462-06-6



Data File: \\REINHARD\ee\chem\vgc5.i\V5090702Wcal.b\2PPB.D
Report Date: 04-Oct-2002 12:08

PEL Laboratories, Inc.

Data file : \\REINHARD\ee\chem\vgc5.i\V5090702Wcal.b\2PPB.D
Lab Smp Id: 2PPB Client Smp ID: 2PPB
Inj Date : 07-SEP-2002 11:56
Operator : Inst ID: vgc5.i
Smp Info : 2PPB
Misc Info :
Comment :
Method : \\REINHARD\ee\chem\vgc5.i\V5090702Wcal.b\8021.m
Meth Date : 04-Oct-2002 12:08 mjacobs Quant Type: ISTD
Cal Date : 07-SEP-2002 10:30 Cal File: 500PPT.D
Als bottle: 7 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.04
Processing Host: REINHARD

Concentration Formula: Amt * DF * Vf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	Final Volume
Vo	5.000	Sample Volume

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
	1 dichlorodifluoromethane	AIB1A	4.630	4.630	(0.367)	863240	2.00000	1.5
	2 chloromethane	AIB1A	5.156	5.156	(0.409)	522046	2.00000	2.0
	3 vinyl chloride	AIB1A	5.456	5.456	(0.432)	986778	2.00000	1.8
	4 bromomethane	AIB1A	6.423	6.423	(0.509)	534560	2.00000	1.5
	5 chloroethane	AIB1A	6.606	6.606	(0.524)	1813275	2.00000	2.0
	6 trichlorofluoromethane	AIB1A	7.076	7.076	(0.561)	1786426	2.00000	1.9
	7 1,1,2trichlorotrifluoroethane	AIB1A	8.010	8.010	(0.635)	1706561	2.00000	1.9
	8 1,1-dichloroethene	AIB1A	8.346	8.346	(0.662)	2845830	2.00000	2.0(M)
	9 methylene chloride	AIB1A	9.196	9.196	(0.729)	4027961	2.00000	2.4(M)
	10 MTBE	FID2B	9.473	9.473	(0.655)	23946	2.00000	2.1
	11 trans 1,2-dichloroethene	AIB1A	9.810	9.810	(0.778)	2819623	2.00000	2.1
M	12 1,2-Dichloroethene (tot)	AIB1A				5419894	4.00000	4.2
	13 1,1-dichloroethane	AIB1A	10.666	10.666	(0.845)	2823807	2.00000	2.1
	14 cis-1,2-dichloroethene	AIB1A	11.923	11.923	(0.945)	2600271	2.00000	2.1
	15 chloroform	AIB1A	12.250	12.250	(0.971)	3390244	2.00000	2.2
*	16 Bromochloromethane	AIB1A	12.616	12.616	(1.000)	27219513	30.0000	

Data File: \\REINHARD\ee\chem\vgc5.i\V5090702Wcal.b\2PPB.D
Report Date: 04-Oct-2002 12:08

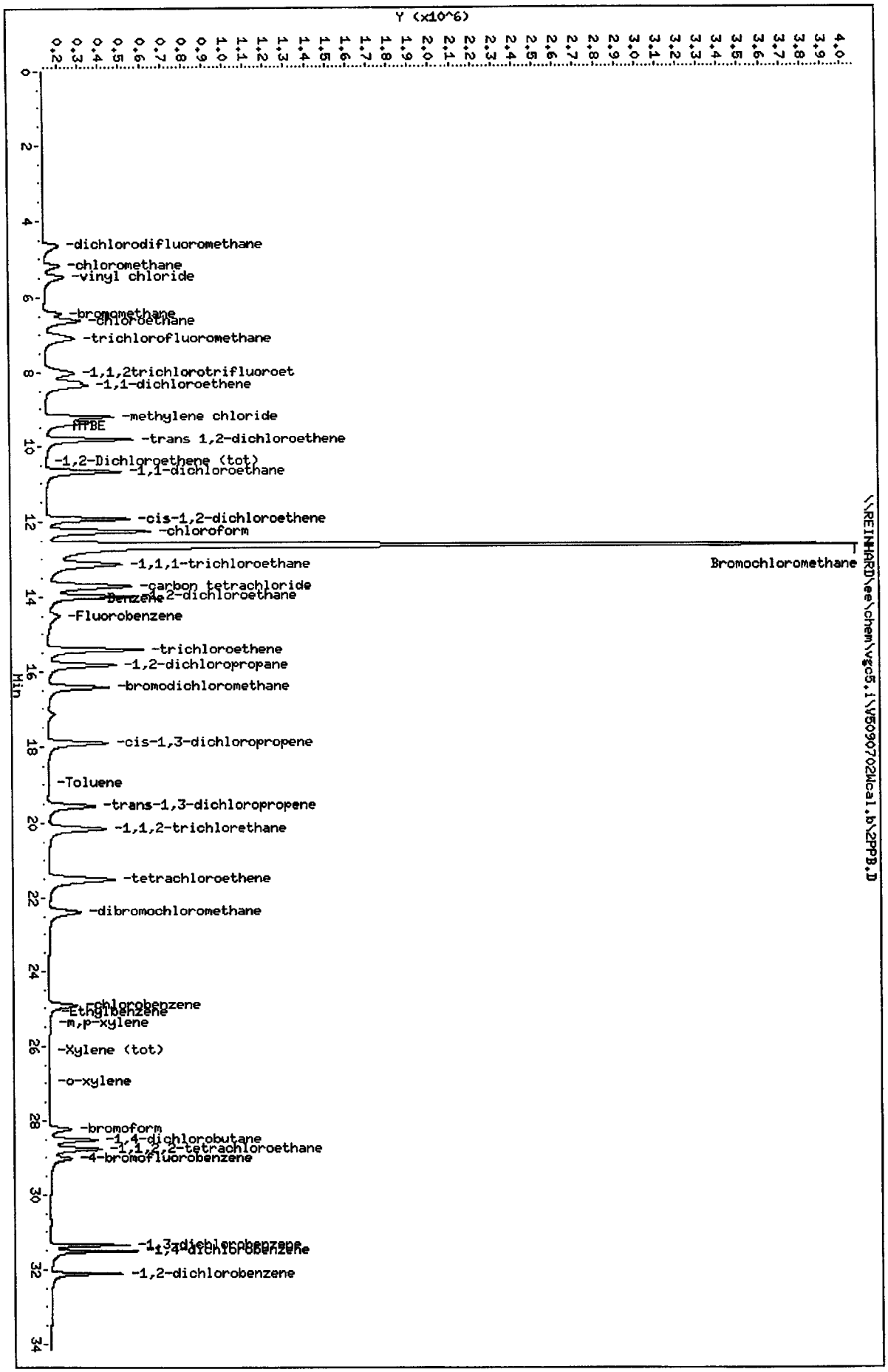
	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
	17 1,1,1-trichloroethane	AIB1A	13.123	13.123	(1.040)	3030898	2.00000	2.1
	18 carbon tetrachloride	AIB1A	13.703	13.703	(1.086)	3437731	2.00000	2.1
	19 1,2-dichloroethane	AIB1A	13.983	13.983	(1.108)	2783692	2.00000	2.2
	20 Benzene	FID2B	14.036	14.036	(0.971)	63796	2.00000	2.0
*	21 Fluorobenzene	FID2B	14.463	14.463	(1.000)	663632	30.0000	
	22 trichloroethene	AIB1A	15.410	15.410	(1.221)	3205718	2.00000	2.2
	23 1,2-dichloropropane	AIB1A	15.816	15.816	(1.254)	2422384	2.00000	2.1
	24 bromodichloromethane	AIB1A	16.416	16.416	(1.301)	2353987	2.00000	2.1
	25 cis-1,3-dichloropropene	AIB1A	17.900	17.900	(1.419)	2362912	2.00000	2.1
	26 Toluene	FID2B	18.960	18.960	(1.311)	56809	2.00000	2.0
	27 trans-1,3-dichloropropene	AIB1A	19.546	19.546	(1.549)	1993252	2.00000	2.1
	28 1,1,2-trichlorethane	AIB1A	20.156	20.156	(1.598)	2502824	2.00000	2.1
	29 tetrachloroethene	AIB1A	21.510	21.510	(1.705)	3578451	2.00000	2.2
	30 dibromochloromethane	AIB1A	22.383	22.383	(1.774)	1584318	2.00000	2.0
	31 chlorobenzene	AIB1A	24.923	24.923	(1.975)	1238511	2.00000	2.0
	32 Ethylbenzene	FID2B	25.093	25.093	(1.735)	53350	2.00000	2.0
	33 m,p-xylene	FID2B	25.390	25.390	(1.755)	116159	4.00000	4.0
M	34 Xylene (tot)	FID2B				163820	6.00000	6.0
	35 o-xylene	FID2B	26.960	26.960	(1.864)	47661	2.00000	2.0
	36 bromoform	AIB1A	28.226	28.226	(2.237)	773941	2.00000	1.8
$	37 1,4-dichlorobutane	AIB1A	28.523	28.523	(2.261)	1555188	2.00000	2.0
	38 1,1,2,2-tetrachloroethane	AIB1A	28.766	28.766	(2.280)	1676560	2.00000	2.0
$	39 4-bromofluorobenzene	FID2B	28.993	28.993	(2.005)	51257	2.00000	1.9
	40 1,3-dichlorobenzene	AIB1A	31.346	31.346	(2.485)	1441818	2.00000	2.1
	41 1,4-dichlorobenzene	AIB1A	31.513	31.513	(2.498)	1942356	2.00000	2.2
	42 1,2-dichlorobenzene	AIB1A	32.103	32.103	(2.545)	1544085	2.00000	2.1

QC Flag Legend

M - Compound response manually integrated.

Data File: \\REINHARD\ee\chem\vgc5.i\V5090702Wcal.b\2PPB.D
Date : 07-SEP-2002 11:56
Client ID: 2PPB
Sample Info: 2PPB
Purge Volume: 5.0
Column phase: RTX 502.2

Instrument: vgc5.i
Operator:
Column diameter: 0.53



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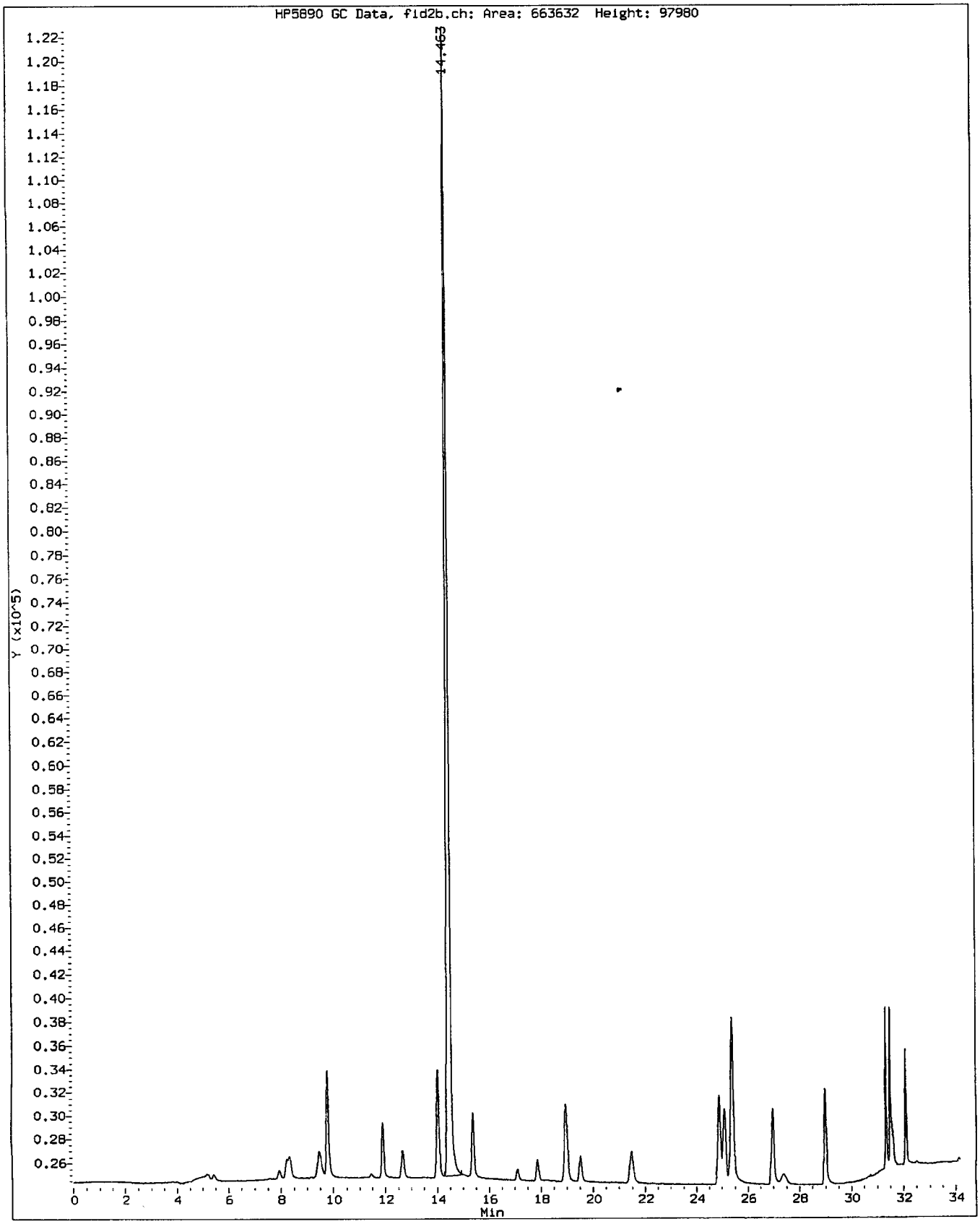
Injection Date: 07-SEP-2002 11:56
Instrument: vgc5.i
Client Sample ID: 2PPB

Compound: Fluorobenzene
CAS Number: 462-06-6



Data File: \\REINHARD\ee\chem\vgc5.i\V5090702Wcal.b\5PPB.D
Report Date: 04-Oct-2002 12:09

PEL Laboratories, Inc.

Data file : \\REINHARD\ee\chem\vgc5.i\V5090702Wcal.b\5PPB.D
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Inj Date : 07-SEP-2002 12:40
Operator : Inst ID: vgc5.i
Smp Info : 5PPB
Misc Info :
Comment :
Method : \\REINHARD\ee\chem\vgc5.i\V5090702Wcal.b\8021.m
Meth Date : 04-Oct-2002 12:08 mjacobs Quant Type: ISTD
Cal Date : 07-SEP-2002 10:30 Cal File: 500PPT.D
Als bottle: 8 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.04
Processing Host: REINHARD

Concentration Formula: Amt * DF * Vf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	Final Volume
Vo	5.000	Sample Volume

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
	1 dichlorodifluoromethane	AIB1A	4.620	4.620	(0.366)	2235545	5.00000	4.0
	2 chloromethane	AIB1A	5.156	5.156	(0.409)	1314096	5.00000	5.2
	3 vinyl chloride	AIB1A	5.443	5.443	(0.432)	2566519	5.00000	4.8
	4 bromomethane	AIB1A	6.400	6.400	(0.507)	1586375	5.00000	4.6
	5 chloroethane	AIB1A	6.596	6.596	(0.523)	4348472	5.00000	4.8
	6 trichlorofluoromethane	AIB1A	7.073	7.073	(0.561)	4484447	5.00000	4.8
	7 1,1,2trichlorotrifluoroethane	AIB1A	8.000	8.000	(0.634)	4498231	5.00000	5.2
	8 1,1-dichloroethene	AIB1A	8.346	8.346	(0.662)	7320291	5.00000	5.3
	9 methylene chloride	AIB1A	9.186	9.186	(0.728)	8759382	5.00000	5.4(M)
	10 MTBE	FID2B	9.473	9.473	(0.655)	53270	5.00000	4.8
	11 trans 1,2-dichloroethene	AIB1A	9.806	9.806	(0.777)	6884712	5.00000	5.3
M	12 1,2-Dichloroethene (tot)	AIB1A				13372089	10.0000	10.8
	13 1,1-dichloroethane	AIB1A	10.660	10.660	(0.845)	7052076	5.00000	5.5
	14 cis-1,2-dichloroethene	AIB1A	11.916	11.916	(0.945)	6487377	5.00000	5.4
	15 chloroform	AIB1A	12.243	12.243	(0.971)	7862988	5.00000	5.2
*	16 Bromochloromethane	AIB1A	12.613	12.613	(1.000)	26298538	30.0000	

Data File: \\REINHARD\ee\chem\vgc5.i\V5090702Wcal.b\5PPB.D
Report Date: 04-Oct-2002 12:09

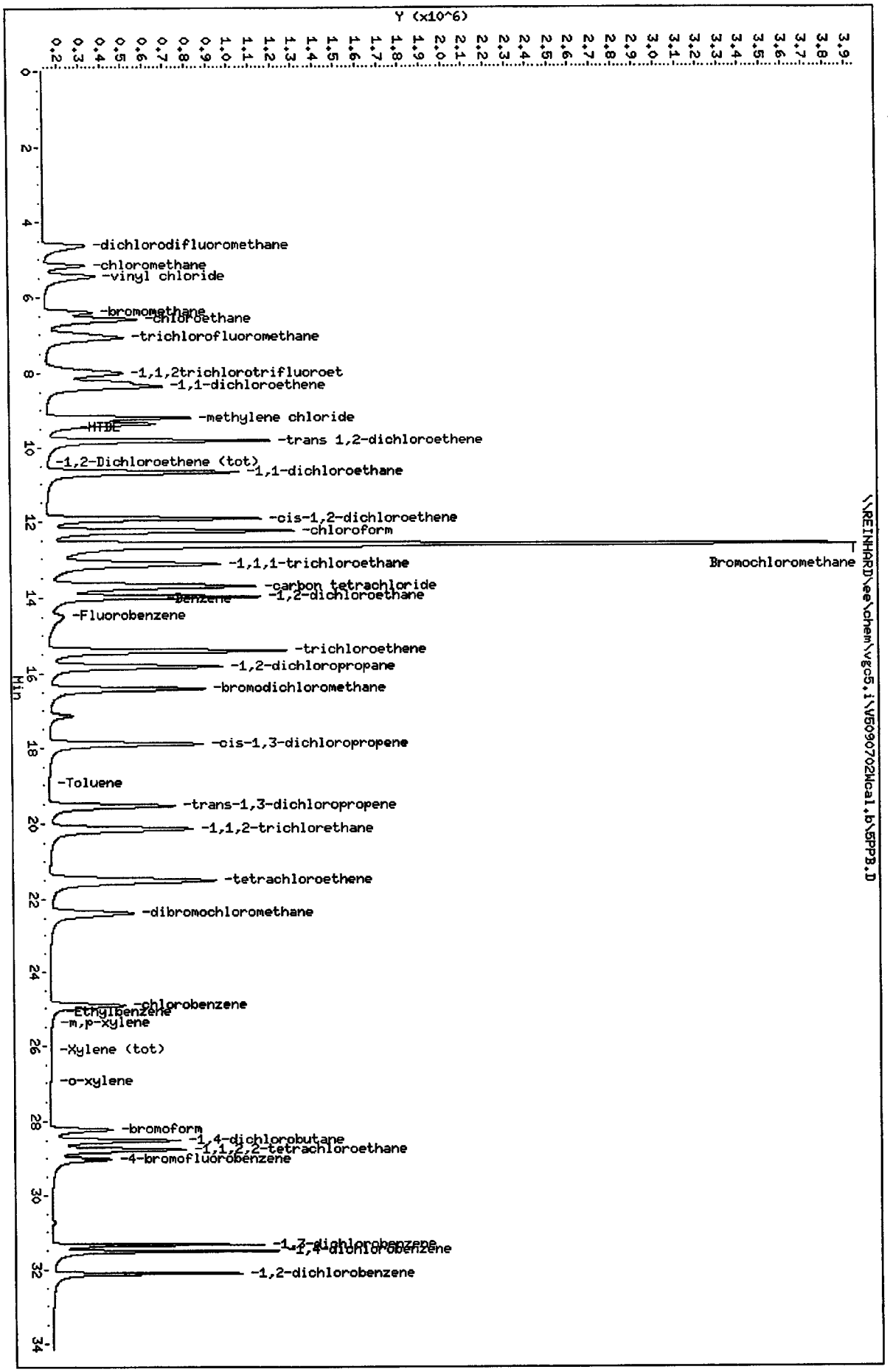
	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
	17 1,1,1-trichloroethane	AIB1A	13.123	13.123	(1.040)	7196146	5.00000	5.2
	18 carbon tetrachloride	AIB1A	13.696	13.696	(1.086)	8367568	5.00000	5.4
	19 1,2-dichloroethane	AIB1A	13.976	13.976	(1.108)	6642474	5.00000	5.3
	20 Benzene	FID2B	14.030	14.030	(0.970)	152976	5.00000	4.8
*	21 Fluorobenzene	FID2B	14.460	14.460	(1.000)	656573	30.0000	
	22 trichloroethene	AIB1A	15.403	15.403	(1.221)	7696475	5.00000	5.4
	23 1,2-dichloropropane	AIB1A	15.813	15.813	(1.254)	6039255	5.00000	5.4
	24 bromodichloromethane	AIB1A	16.413	16.413	(1.301)	5722509	5.00000	5.3
	25 cis-1,3-dichloropropene	AIB1A	17.900	17.900	(1.419)	5699966	5.00000	5.3
	26 Toluene	FID2B	18.956	18.956	(1.311)	137287	5.00000	4.9
	27 trans-1,3-dichloropropene	AIB1A	19.540	19.540	(1.549)	4998911	5.00000	5.4
	28 1,1,2-trichlorethane	AIB1A	20.140	20.140	(1.597)	6189839	5.00000	5.4
	29 tetrachloroethene	AIB1A	21.500	21.500	(1.705)	8660828	5.00000	5.4
	30 dibromochloromethane	AIB1A	22.376	22.376	(1.774)	4073286	5.00000	5.3
	31 chlorobenzene	AIB1A	24.916	24.916	(1.975)	3163244	5.00000	5.3
	32 Ethylbenzene	FID2B	25.093	25.093	(1.735)	129062	5.00000	4.9
	33 m,p-xylene	FID2B	25.383	25.383	(1.755)	281571	10.0000	9.9
M	34 Xylene (tot)	FID2B				397371	15.0000	14.8
	35 o-xylene	FID2B	26.960	26.960	(1.864)	115800	5.00000	4.9
	36 bromoform	AIB1A	28.223	28.223	(2.238)	2148696	5.00000	5.2
$	37 1,4-dichlorobutane	AIB1A	28.520	28.520	(2.261)	4065259	5.00000	5.4
	38 1,1,2,2-tetrachloroethane	AIB1A	28.763	28.763	(2.280)	4185387	5.00000	5.3
$	39 4-bromofluorobenzene	FID2B	28.993	28.993	(2.005)	130225	5.00000	4.9
	40 1,3-dichlorobenzene	AIB1A	31.346	31.346	(2.485)	3664795	5.00000	5.4
	41 1,4-dichlorobenzene	AIB1A	31.513	31.513	(2.498)	4718681	5.00000	5.4
	42 1,2-dichlorobenzene	AIB1A	32.103	32.103	(2.545)	3849187	5.00000	5.4

QC Flag Legend

M - Compound response manually integrated.

Data File: \\REINHARD\ee\chem\vgc5.i\V5090702Mcal.b\5PPB.D
Date : 07-SEP-2002 12:40
Client ID: 5PPB
Sample Info: 5PPB
Purge Volume: 5.0
Column phase: RTX 502.2

Instrument: vgc5.i
Operator:
Column diameter: 0.53



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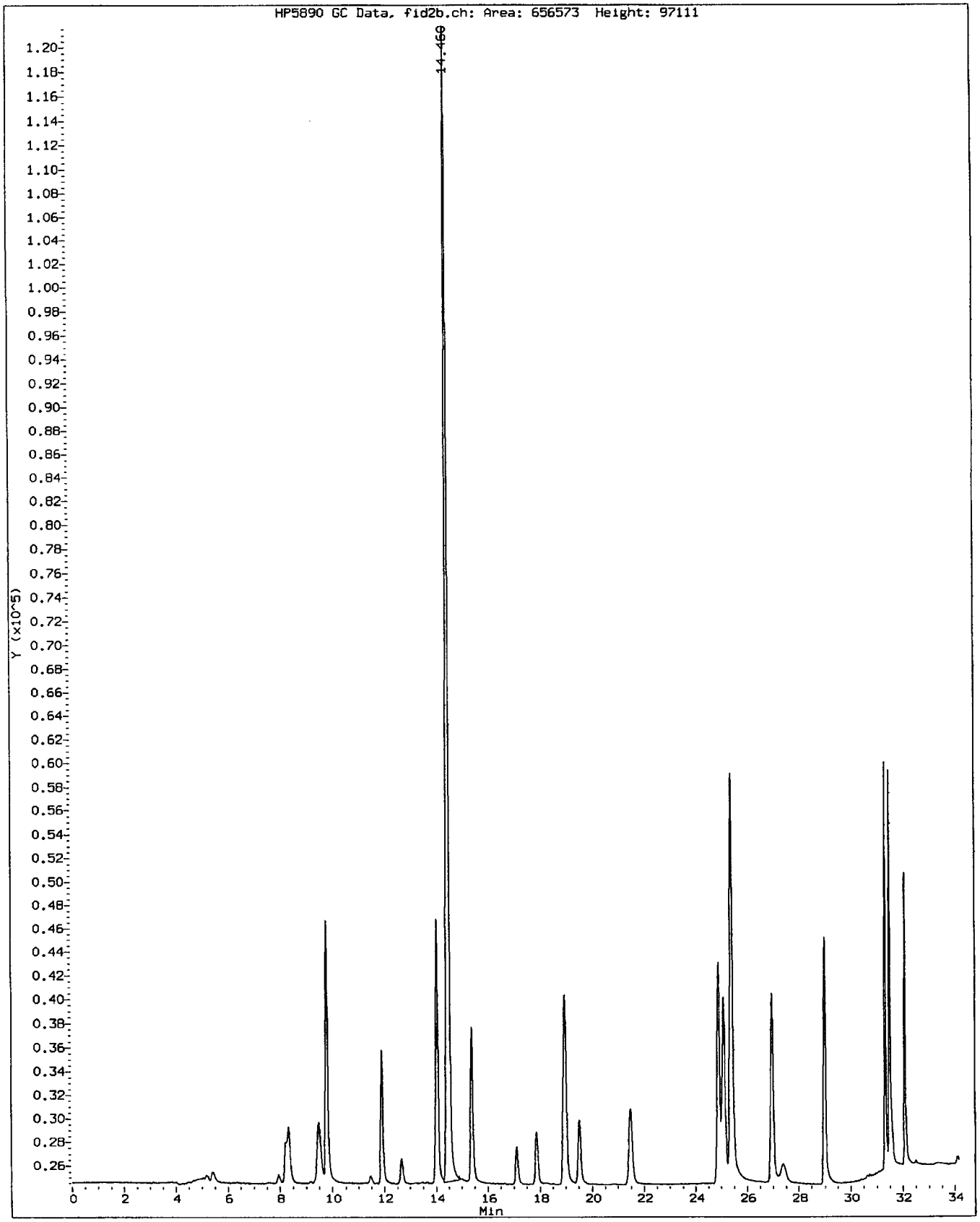
Injection Date: 07-SEP-2002 12:40
Instrument: vgc5.i
Client Sample ID: 5PPB

Compound: Fluorobenzene
CAS Number: 462-06-6



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Report Date: 04-Oct-2002 12:09

PEL Laboratories, Inc.

Data file : \\REINHARD\ee\chem\vgc5.i\V5090702Wcal.b\10PPB.D
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Inj Date : 07-SEP-2002 13:23
Operator : Inst ID: vgc5.i
Smp Info : 10PPB
Misc Info :
Comment :
Method : \\REINHARD\ee\chem\vgc5.i\V5090702Wcal.b\8021.m
Meth Date : 04-Oct-2002 12:09 mjacobs Quant Type: ISTD
Cal Date : 07-SEP-2002 10:30 Cal File: 500PPT.D
Als bottle: 9 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.04
Processing Host: REINHARD

Concentration Formula: Amt * DF * Vf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	Final Volume
Vo	5.000	Sample Volume

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
	1 dichlorodifluoromethane	AIB1A	4.626	4.626	(0.367)	7361481	10.0000	12.9
	2 chloromethane	AIB1A	5.173	5.173	(0.410)	3179137	10.0000	12.4
	3 vinyl chloride	AIB1A	5.470	5.470	(0.434)	6785732	10.0000	12.4
	4 bromomethane	AIB1A	6.423	6.423	(0.509)	4392319	10.0000	12.4
	5 chloroethane	AIB1A	6.613	6.613	(0.524)	11005962	10.0000	12.0
	6 trichlorofluoromethane	AIB1A	7.080	7.080	(0.561)	10884131	10.0000	11.5
	7 1,1,2trichlorotrifluoroethane	AIB1A	8.010	8.010	(0.635)	10572554	10.0000	12.0
	8 1,1-dichloroethene	AIB1A	8.353	8.353	(0.662)	16414469	10.0000	11.6(M)
	9 methylene chloride	AIB1A	9.193	9.193	(0.729)	18370123	10.0000	11.1(M)
	10 MTBE	FID2B	9.466	9.466	(0.655)	117196	10.0000	10.6
	11 trans 1,2-dichloroethene	AIB1A	9.806	9.806	(0.777)	14753316	10.0000	11.2
M	12 1,2-Dichloroethene (tot)	AIB1A				28408364	20.0000	22.4
	13 1,1-dichloroethane	AIB1A	10.656	10.656	(0.845)	14908804	10.0000	11.3
	14 cis-1,2-dichloroethene	AIB1A	11.923	11.923	(0.945)	13655048	10.0000	11.2
	15 chloroform	AIB1A	12.246	12.246	(0.971)	17250306	10.0000	11.1
*	16 Bromochloromethane	AIB1A	12.613	12.613	(1.000)	26940975	30.0000	

Data File: \\REINHARD\ee\chem\vgc5.i\V5090702Wcal.b\10PPB.D
Report Date: 04-Oct-2002 12:09

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
	17 1,1,1-trichloroethane	AIB1A	13.123	13.123	(1.040)	15205627	10.0000	10.8
	18 carbon tetrachloride	AIB1A	13.700	13.700	(1.086)	17818719	10.0000	11.2
	19 1,2-dichloroethane	AIB1A	13.980	13.980	(1.108)	13772621	10.0000	10.8
	20 Benzene	FID2B	14.030	14.030	(0.970)	337677	10.0000	10.7
*	21 Fluorobenzene	FID2B	14.460	14.460	(1.000)	656605	30.0000	
	22 trichloroethene	AIB1A	15.406	15.406	(1.221)	16036680	10.0000	11.0
	23 1,2-dichloropropane	AIB1A	15.813	15.813	(1.254)	12708045	10.0000	11.0
	24 bromodichloromethane	AIB1A	16.413	16.413	(1.301)	12142117	10.0000	11.0
	25 cis-1,3-dichloropropene	AIB1A	17.893	17.893	(1.419)	12209618	10.0000	11.1
	26 Toluene	FID2B	18.956	18.956	(1.311)	299330	10.0000	10.7
	27 trans-1,3-dichloropropene	AIB1A	19.536	19.536	(1.549)	10659876	10.0000	11.2
	28 1,1,2-trichlorethane	AIB1A	20.146	20.146	(1.597)	13382429	10.0000	11.3
	29 tetrachloroethene	AIB1A	21.500	21.500	(1.705)	18097580	10.0000	11.0
	30 dibromochloromethane	AIB1A	22.366	22.366	(1.773)	8894045	10.0000	11.2
	31 chlorobenzene	AIB1A	24.910	24.910	(1.975)	6779495	10.0000	11.2
	32 Ethylbenzene	FID2B	25.086	25.086	(1.735)	275998	10.0000	10.5
	33 m,p-xylene	FID2B	25.380	25.380	(1.755)	607688	20.0000	21.4
M	34 Xylene (tot)	FID2B				863338	30.0000	32.2
	35 o-xylene	FID2B	26.956	26.956	(1.864)	255650	10.0000	10.8
	36 bromoform	AIB1A	28.210	28.210	(2.237)	4958597	10.0000	11.8
$	37 1,4-dichlorobutane	AIB1A	28.516	28.516	(2.261)	8230410	10.0000	10.6
	38 1,1,2,2-tetrachloroethane	AIB1A	28.760	28.760	(2.280)	9013334	10.0000	11.1
$	39 4-bromofluorobenzene	FID2B	28.990	28.990	(2.005)	265138	10.0000	10.0
	40 1,3-dichlorobenzene	AIB1A	31.343	31.343	(2.485)	7665607	10.0000	11.1
	41 1,4-dichlorobenzene	AIB1A	31.513	31.513	(2.498)	9545988	10.0000	10.7
	42 1,2-dichlorobenzene	AIB1A	32.100	32.100	(2.545)	8019283	10.0000	10.9

QC Flag Legend

M - Compound response manually integrated.

Data File: \\REINHARD\ee\chem\vgc5.i\V5090702Wcal.b\10PPB.D
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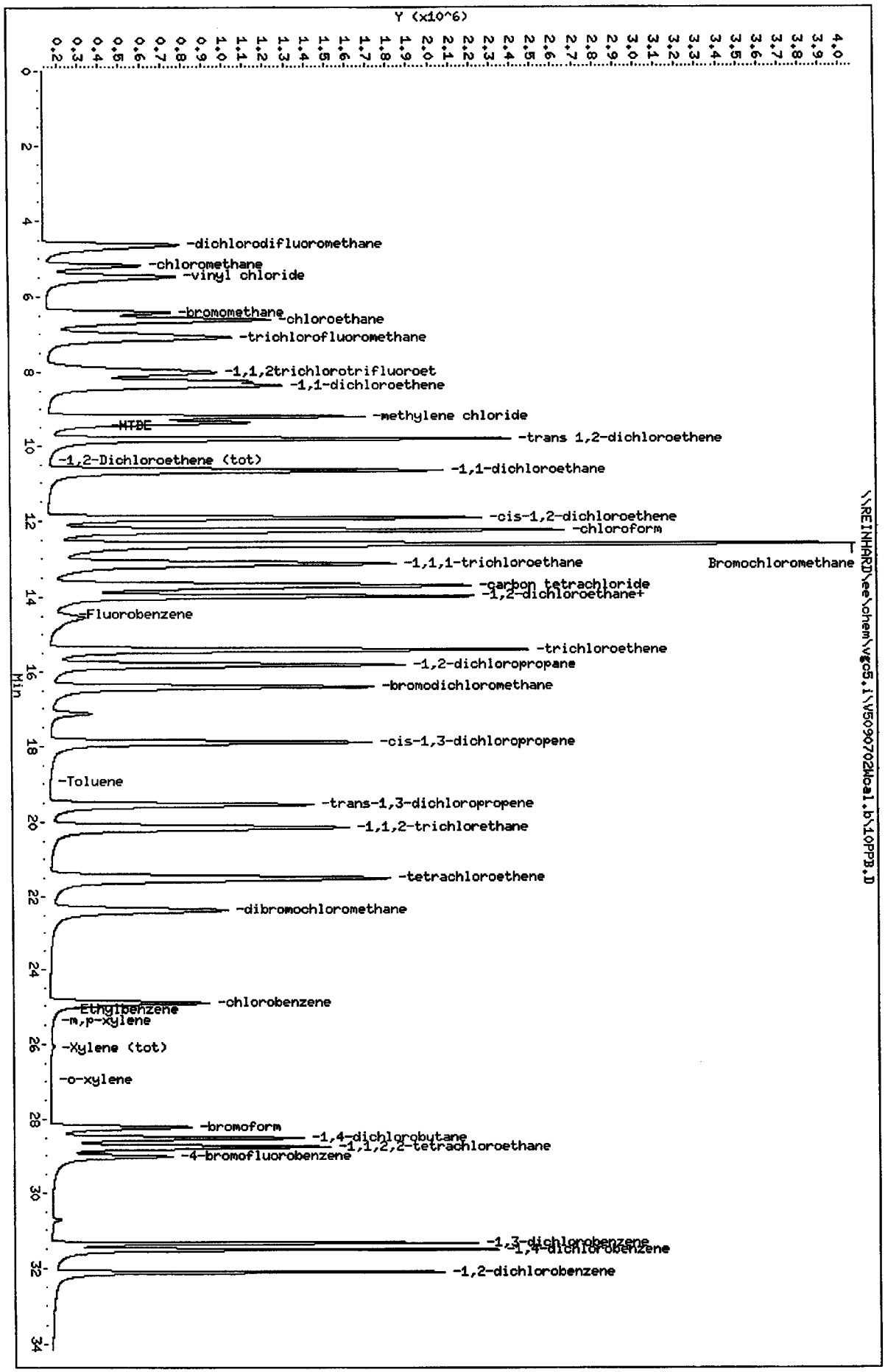
Sample Info: 10PPB
Purge Volume: 5.0
Column phase: RTX 502.2

Instrument: vgc5.i
Operator:
Column diameter: 0.53



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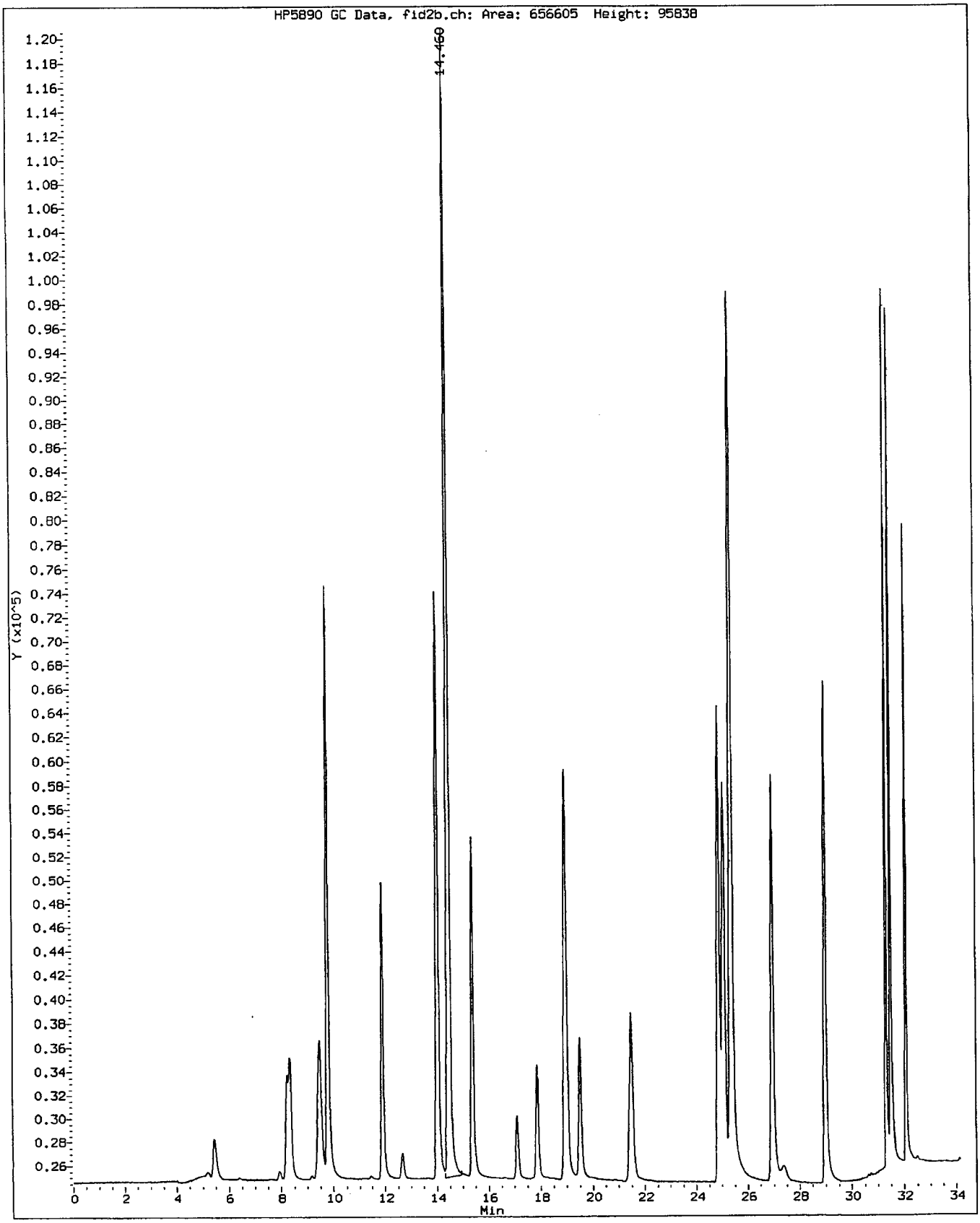
Injection Date: 07-SEP-2002 13:23
Instrument: vgc5.i
Client Sample ID: 10PPB

Compound: Fluorobenzene
CAS Number: 462-06-6



Data File: \\REINHARD\ee\chem\vgc5.i\V5090702Wcal.b\20PPB.D
Report Date: 04-Oct-2002 12:09

PEL Laboratories, Inc.

Data file : \\REINHARD\ee\chem\vgc5.i\V5090702Wcal.b\20PPB.D
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Inj Date : 07-SEP-2002 14:07
Operator : Inst ID: vgc5.i
Smp Info : 20PPB
Misc Info :
Comment :
Method : \\REINHARD\ee\chem\vgc5.i\V5090702Wcal.b\8021.m
Meth Date : 04-Oct-2002 12:09 mjacobs Quant Type: ISTD
Cal Date : 07-SEP-2002 10:30 Cal File: 500PPT.D
Als bottle: 10 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.04
Processing Host: REINHARD

Concentration Formula: Amt * DF * Vf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	Final Volume
Vo	5.000	Sample Volume

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
	1 dichlorodifluoromethane	AIB1A	4.623	4.623	(0.367)	14472992	20.0000	24.5
	2 chloromethane	AIB1A	5.170	5.170	(0.410)	6196564	20.0000	23.4
	3 vinyl chloride	AIB1A	5.466	5.466	(0.433)	13221106	20.0000	23.3
	4 bromomethane	AIB1A	6.413	6.413	(0.508)	8735318	20.0000	24.0
	5 chloroethane	AIB1A	6.603	6.603	(0.524)	21330371	20.0000	22.4
	6 trichlorofluoromethane	AIB1A	7.076	7.076	(0.561)	21929520	20.0000	22.4
	7 1,1,2trichlorotrifluoroethane	AIB1A	7.993	7.993	(0.634)	20848899	20.0000	22.9
	8 1,1-dichloroethene	AIB1A	8.340	8.340	(0.661)	30688358	20.0000	21.0(M)
	9 methylene chloride	AIB1A	9.193	9.193	(0.729)	33462636	20.0000	19.6(M)
	10 MTBE	FID2B	9.473	9.473	(0.655)	227435	20.0000	19.6
	11 trans 1,2-dichloroethene	AIB1A	9.806	9.806	(0.777)	27506143	20.0000	20.2
M	12 1,2-Dichloroethene (tot)	AIB1A				53572690	40.0000	40.8
	13 1,1-dichloroethane	AIB1A	10.663	10.663	(0.845)	28292535	20.0000	20.8
	14 cis-1,2-dichloroethene	AIB1A	11.916	11.916	(0.945)	26066547	20.0000	20.6
	15 chloroform	AIB1A	12.246	12.246	(0.971)	32331278	20.0000	20.1
*	16 Bromochloromethane	AIB1A	12.613	12.613	(1.000)	27824037	30.0000	

Data File: \\REINHARD\ee\chem\vgc5.i\V5090702Wcal.b\20PPB.D
Report Date: 04-Oct-2002 12:09

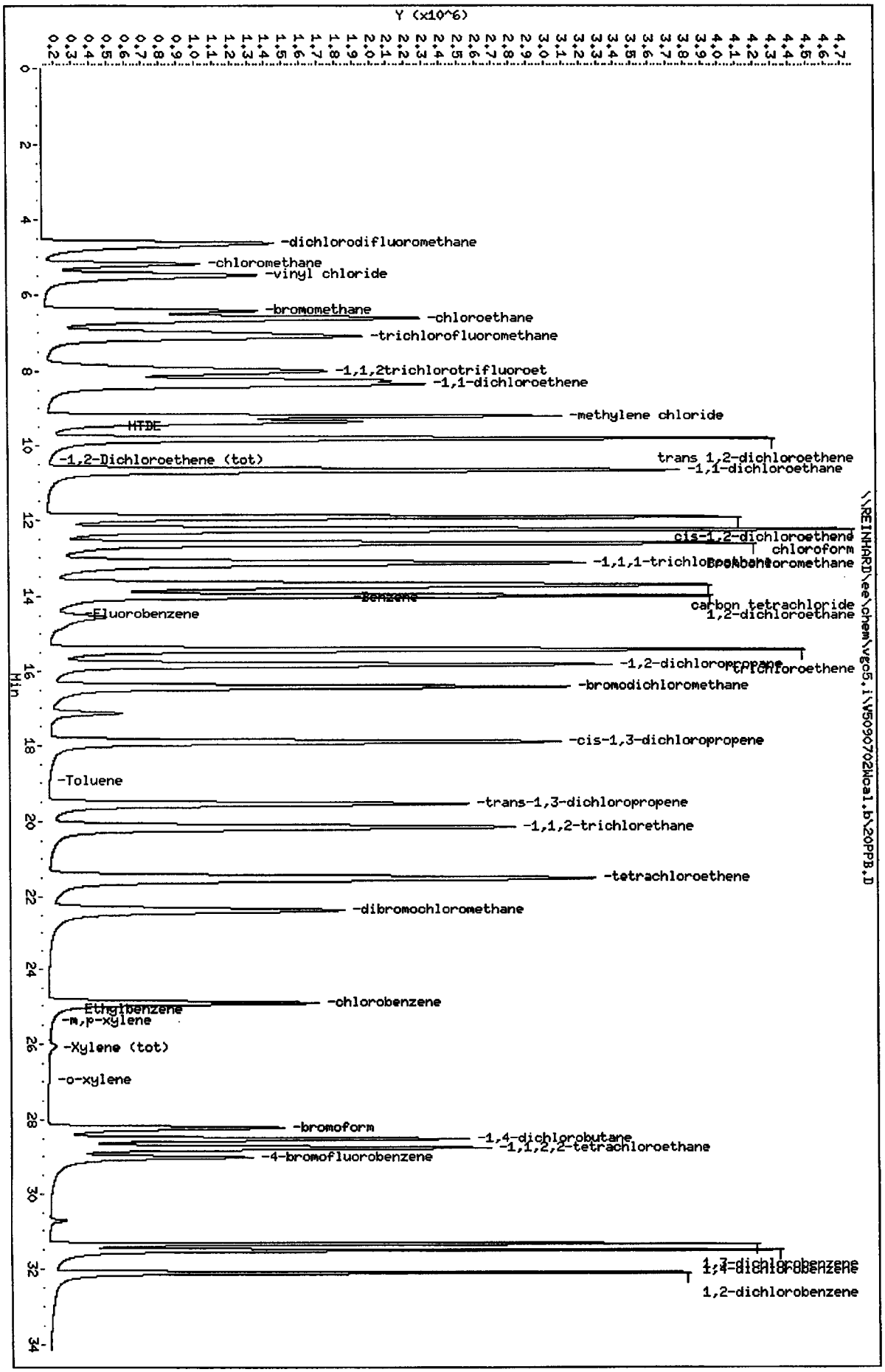
	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
	17 1,1,1-trichloroethane	AIB1A	13.120	13.120	(1.040)	28496536	20.0000	19.5
	18 carbon tetrachloride	AIB1A	13.700	13.700	(1.086)	33726044	20.0000	20.5
	19 1,2-dichloroethane	AIB1A	13.980	13.980	(1.108)	25688144	20.0000	19.4
	20 Benzene	FID2B	14.036	14.036	(0.971)	671400	20.0000	20.3
*	21 Fluorobenzene	FID2B	14.463	14.463	(1.000)	687332	30.0000	
	22 trichloroethene	AIB1A	15.403	15.403	(1.221)	30143794	20.0000	20.0
	23 1,2-dichloropropane	AIB1A	15.816	15.816	(1.254)	24086540	20.0000	20.2
	24 bromodichloromethane	AIB1A	16.413	16.413	(1.301)	23145458	20.0000	20.3
	25 cis-1,3-dichloropropene	AIB1A	17.896	17.896	(1.419)	22968761	20.0000	20.2
	26 Toluene	FID2B	18.960	18.960	(1.311)	594593	20.0000	20.4
	27 trans-1,3-dichloropropene	AIB1A	19.540	19.540	(1.549)	20006077	20.0000	20.3
	28 1,1,2-trichlorethane	AIB1A	20.150	20.150	(1.598)	24923441	20.0000	20.4
	29 tetrachloroethene	AIB1A	21.500	21.500	(1.705)	34393157	20.0000	20.2
	30 dibromochloromethane	AIB1A	22.366	22.366	(1.773)	17501542	20.0000	21.4
	31 chlorobenzene	AIB1A	24.913	24.913	(1.975)	13302782	20.0000	21.2
	32 Ethylbenzene	FID2B	25.086	25.086	(1.735)	550260	20.0000	20.0
	33 m,p-xylene	FID2B	25.383	25.383	(1.755)	1207928	40.0000	40.6
M	34 Xylene (tot)	FID2B				1715308	60.0000	61.0
	35 o-xylene	FID2B	26.953	26.953	(1.864)	507380	20.0000	20.4
	36 bromoform	AIB1A	28.213	28.213	(2.237)	9879113	20.0000	22.7
$	37 1,4-dichlorobutane	AIB1A	28.513	28.513	(2.261)	16026669	20.0000	20.0
	38 1,1,2,2-tetrachloroethane	AIB1A	28.756	28.756	(2.280)	16784317	20.0000	20.0
$	39 4-bromofluorobenzene	FID2B	28.986	28.986	(2.004)	550986	20.0000	20.0
	40 1,3-dichlorobenzene	AIB1A	31.343	31.343	(2.485)	14778964	20.0000	20.7
	41 1,4-dichlorobenzene	AIB1A	31.506	31.506	(2.498)	17875639	20.0000	19.4
	42 1,2-dichlorobenzene	AIB1A	32.096	32.096	(2.545)	15438215	20.0000	20.4

QC Flag Legend

M - Compound response manually integrated.

Data File: \\REINHARD\ee\chem\vgc5.i\V5090702Wcal.b\20PPB.D
Date : 07-SEP-2002 14:07
Client ID: 20PPB
Sample Info: 20PPB
Purge Volume: 5.0
Column phase: RTX 502.2

Instrument: vgc5.i
Operator:
Column diameter: 0.53



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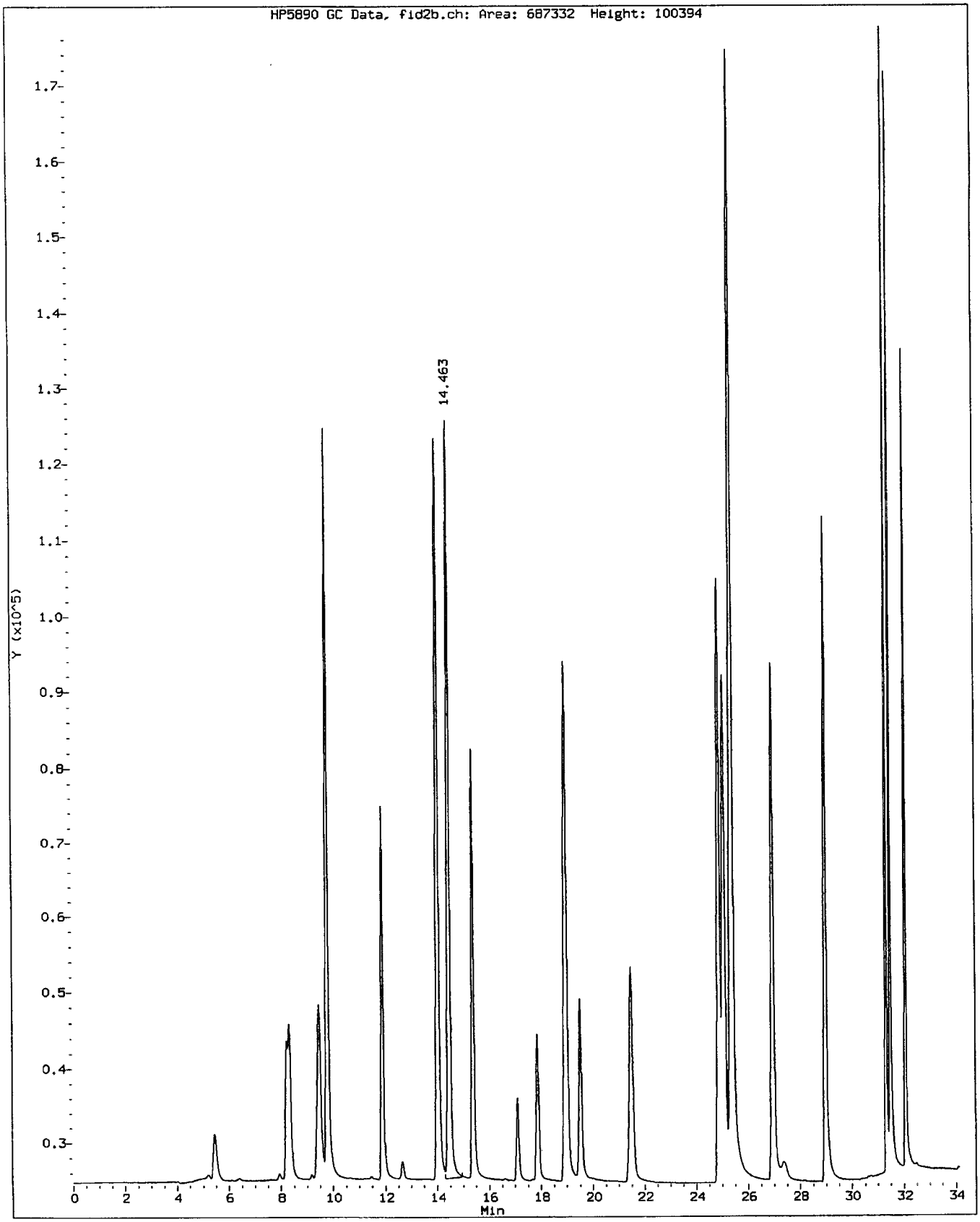
Injection Date: 07-SEP-2002 14:07
Instrument: vgc5.i
Client Sample ID: 20PPB

Compound: Fluorobenzene
CAS Number: 462-06-6



Data File: \\REINHARD\ee\chem\vgc5.i\V5090702Wcal.b\30PPB.D
Report Date: 04-Oct-2002 12:09

PEL Laboratories, Inc.

Data file : \\REINHARD\ee\chem\vgc5.i\V5090702Wcal.b\30PPB.D
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Inj Date : 07-SEP-2002 14:59
Operator : Inst ID: vgc5.i
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Misc Info :
Comment :
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Meth Date : 04-Oct-2002 12:09 mjacobs Quant Type: ISTD
Cal Date : 07-SEP-2002 10:30 Cal File: 500PPT.D
Als bottle: 11 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.04
Processing Host: REINHARD

Concentration Formula: Amt * DF * Vf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	Final Volume
Vo	5.000	Sample Volume

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
	1 dichlorodifluoromethane	AIB1A	4.620	4.620	(0.366)	20992274	30.0000	34.8
	2 chloromethane	AIB1A	5.173	5.173	(0.410)	7947589	30.0000	29.4
	3 vinyl chloride	AIB1A	5.470	5.470	(0.434)	18572281	30.0000	32.1
	4 bromomethane	AIB1A	6.410	6.410	(0.508)	12420663	30.0000	33.4
	5 chloroethane	AIB1A	6.606	6.606	(0.524)	30234586	30.0000	31.2
	6 trichlorofluoromethane	AIB1A	7.080	7.080	(0.561)	30715194	30.0000	30.6
	7 1,1,2trichlorotrifluoroethane	AIB1A	8.003	8.003	(0.635)	27707305	30.0000	29.7(M)
	8 1,1-dichloroethene	AIB1A	8.350	8.350	(0.662)	44260935	30.0000	29.6
	9 methylene chloride	AIB1A	9.193	9.193	(0.729)	47573136	30.0000	27.3(M)
	10 MTBE	FID2B	9.470	9.470	(0.655)	341221	30.0000	28.4
	11 trans 1,2-dichloroethene	AIB1A	9.806	9.806	(0.777)	38416092	30.0000	27.6
M	12 1,2-Dichloroethene (tot)	AIB1A				74471062	60.0000	55.6
	13 1,1-dichloroethane	AIB1A	10.660	10.660	(0.845)	37806279	30.0000	27.3
	14 cis-1,2-dichloroethene	AIB1A	11.916	11.916	(0.945)	36054970	30.0000	28.0
	15 chloroform	AIB1A	12.246	12.246	(0.971)	45233622	30.0000	27.6
*	16 Bromochloromethane	AIB1A	12.613	12.613	(1.000)	28429795	30.0000	

Data File: \\REINHARD\ee\chem\vgc5.i\V5090702Wcal.b\30PPB.D
Report Date: 04-Oct-2002 12:09

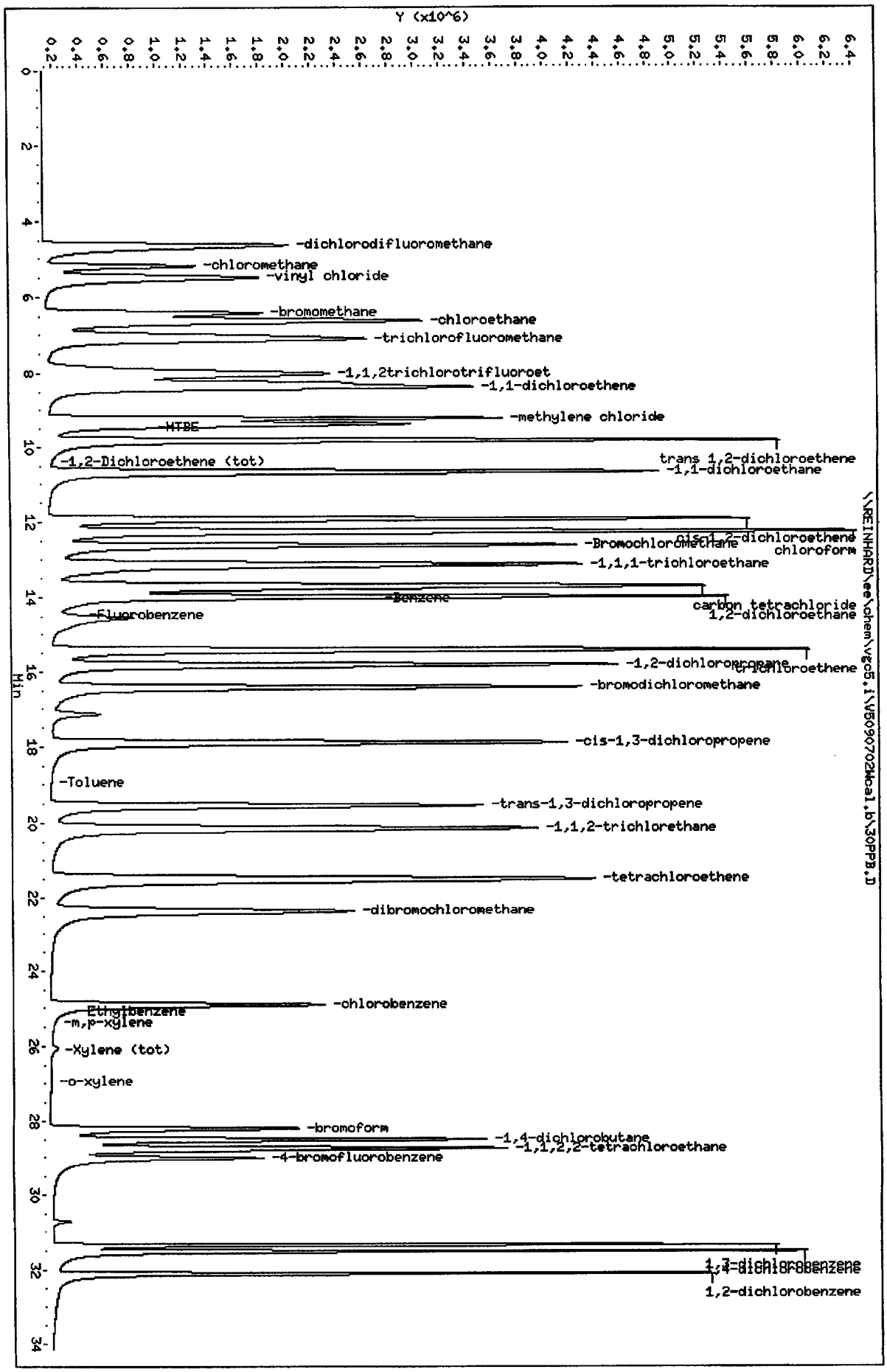
	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
	17 1,1,1-trichloroethane	AIB1A	13.120	13.120	(1.040)	39069616	30.0000	26.2
	18 carbon tetrachloride	AIB1A	13.696	13.696	(1.086)	45816143	30.0000	27.3
	19 1,2-dichloroethane	AIB1A	13.980	13.980	(1.108)	36621523	30.0000	27.1
	20 Benzene	FID2B	14.033	14.033	(0.970)	980612	30.0000	28.6
*	21 Fluorobenzene	FID2B	14.460	14.460	(1.000)	710016	30.0000	
	22 trichloroethene	AIB1A	15.403	15.403	(1.221)	41820753	30.0000	27.1
	23 1,2-dichloropropane	AIB1A	15.810	15.810	(1.253)	33273553	30.0000	27.4
	24 bromodichloromethane	AIB1A	16.410	16.410	(1.301)	32498331	30.0000	27.9
	25 cis-1,3-dichloropropene	AIB1A	17.890	17.890	(1.418)	32240766	30.0000	27.8
	26 Toluene	FID2B	18.960	18.960	(1.311)	866865	30.0000	28.7
	27 trans-1,3-dichloropropene	AIB1A	19.533	19.533	(1.549)	28451544	30.0000	28.3
	28 1,1,2-trichlorethane	AIB1A	20.146	20.146	(1.597)	35751166	30.0000	28.6
	29 tetrachloroethene	AIB1A	21.496	21.496	(1.704)	48221533	30.0000	27.8
	30 dibromochloromethane	AIB1A	22.366	22.366	(1.773)	25133187	30.0000	30.0
	31 chlorobenzene	AIB1A	24.910	24.910	(1.975)	18882399	30.0000	29.5
	32 Ethylbenzene	FID2B	25.090	25.090	(1.735)	807093	30.0000	28.4
	33 m,p-xylene	FID2B	25.383	25.383	(1.755)	1757462	60.0000	57.2
M	34 Xylene (tot)	FID2B				2498202	90.0000	86.0
	35 o-xylene	FID2B	26.953	26.953	(1.864)	740740	30.0000	28.8
	36 bromoform	AIB1A	28.203	28.203	(2.236)	14611983	30.0000	32.8
$	37 1,4-dichlorobutane	AIB1A	28.510	28.510	(2.260)	22971982	30.0000	28.1
	38 1,1,2,2-tetrachloroethane	AIB1A	28.756	28.756	(2.280)	23674864	30.0000	27.6
$	39 4-bromofluorobenzene	FID2B	28.986	28.986	(2.005)	802169	30.0000	28.1
	40 1,3-dichlorobenzene	AIB1A	31.340	31.340	(2.485)	20921785	30.0000	28.7
	41 1,4-dichlorobenzene	AIB1A	31.506	31.506	(2.498)	24570867	30.0000	26.2
	42 1,2-dichlorobenzene	AIB1A	32.093	32.093	(2.544)	21348912	30.0000	27.6

QC Flag Legend

M - Compound response manually integrated.

Data File: \\REINHARD\ee\chem\vgc5.i\V5090702Mcal.b\30PPB.D
Date : 07-SEP-2002 14:59
Client ID: 30PPB
Sample Info: 30PPB
Purge Volume: 5.0
Column phase: RTX 502.2

Instrument: vgc5.i
Operator:
Column diameter: 0.53



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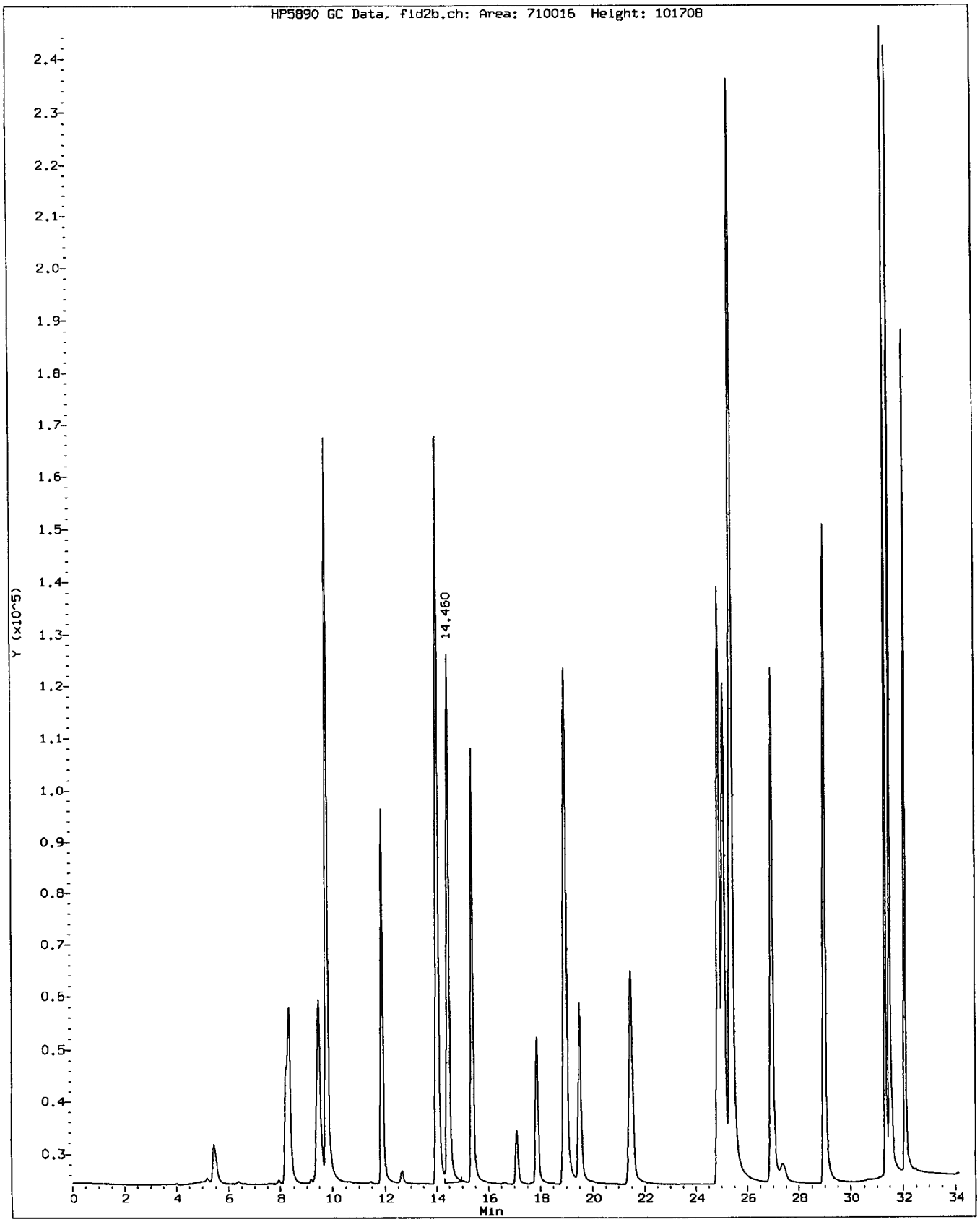
Injection Date: 07-SEP-2002 14:59
Instrument: vgc5.i
Client Sample ID: 30PPB

Compound: Fluorobenzene
CAS Number: 462-06-6



Data File: \\REINHARD\ee\chem\vgc5.i\V5090702Wcal.b\40PPB.D
Report Date: 04-Oct-2002 12:10

PEL Laboratories, Inc.

Data file : \\REINHARD\ee\chem\vgc5.i\V5090702Wcal.b\40PPB.D
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Inj Date : 07-SEP-2002 16:25
Operator : Inst ID: vgc5.i
Smp Info : 40PPB
Misc Info :
Comment :
Method : \\REINHARD\ee\chem\vgc5.i\V5090702Wcal.b\8021.m
Meth Date : 04-Oct-2002 12:09 mjacobs Quant Type: ISTD
Cal Date : 07-SEP-2002 10:30 Cal File: 500PPT.D
Als bottle: 14 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.04
Processing Host: REINHARD

Concentration Formula: Amt * DF * Vf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	Final Volume
Vo	5.000	Sample Volume

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
	1 dichlorodifluoromethane	AIB1A	4.613	4.613	(0.366)	23980718	40.0000	40.9
	2 chloromethane	AIB1A	5.170	5.170	(0.410)	7312265	40.0000	27.8
	3 vinyl chloride	AIB1A	5.476	5.476	(0.434)	22192035	40.0000	39.5
	4 bromomethane	AIB1A	6.403	6.403	(0.508)	14956710	40.0000	41.4
	5 chloroethane	AIB1A	6.596	6.596	(0.523)	35751772	40.0000	37.9
	6 trichlorofluoromethane	AIB1A	7.080	7.080	(0.561)	39049077	40.0000	40.1
	7 1,1,2trichlorotrifluoroethane	AIB1A	7.993	7.993	(0.634)	36352648	40.0000	40.2(M)
	8 1,1-dichloroethene	AIB1A	8.346	8.346	(0.662)	52128322	40.0000	35.9
	9 methylene chloride	AIB1A	9.343	9.343	(0.741)	58705567	40.0000	34.7(M)
	10 MTBE	FID2B	9.470	9.470	(0.655)	442051	40.0000	39.7
	11 trans 1,2-dichloroethene	AIB1A	9.800	9.800	(0.777)	46595997	40.0000	34.5
M	12 1,2-Dichloroethene (tot)	AIB1A				90958930	80.0000	69.9
	13 1,1-dichloroethane	AIB1A	10.653	10.653	(0.845)	47991201	40.0000	35.6
	14 cis-1,2-dichloroethene	AIB1A	11.913	11.913	(0.945)	44362933	40.0000	35.4
	15 chloroform	AIB1A	12.243	12.243	(0.971)	55532199	40.0000	34.9
*	16 Bromochloromethane	AIB1A	12.610	12.610	(1.000)	27604551	30.0000	

Data File: \\REINHARD\ee\chem\vgc5.i\V5090702Wcal.b\40PPB.D
Report Date: 04-Oct-2002 12:10

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
	17 1,1,1-trichloroethane	AIB1A	13.116	13.116	(1.040)	47700783	40.0000	32.9
	18 carbon tetrachloride	AIB1A	13.693	13.693	(1.086)	54939403	40.0000	33.7
	19 1,2-dichloroethane	AIB1A	13.973	13.973	(1.108)	45162597	40.0000	34.4
	20 Benzene	FID2B	14.030	14.030	(0.970)	1243482	40.0000	39.1
*	21 Fluorobenzene	FID2B	14.456	14.456	(1.000)	659950	30.0000	
	22 trichloroethene	AIB1A	15.400	15.400	(1.221)	51017240	40.0000	34.0
	23 1,2-dichloropropane	AIB1A	15.806	15.806	(1.254)	41064263	40.0000	34.8
	24 bromodichloromethane	AIB1A	16.406	16.406	(1.301)	40757010	40.0000	36.1
	25 cis-1,3-dichloropropene	AIB1A	17.890	17.890	(1.419)	39570300	40.0000	35.1
	26 Toluene	FID2B	18.953	18.953	(1.311)	1106488	40.0000	39.4
	27 trans-1,3-dichloropropene	AIB1A	19.533	19.533	(1.549)	35113110	40.0000	35.9
	28 1,1,2-trichlorethane	AIB1A	20.146	20.146	(1.598)	45109862	40.0000	37.2
	29 tetrachloroethene	AIB1A	21.496	21.496	(1.705)	58057853	40.0000	34.4
	30 dibromochloromethane	AIB1A	22.360	22.360	(1.773)	31890415	40.0000	39.2
	31 chlorobenzene	AIB1A	24.906	24.906	(1.975)	23496646	40.0000	37.8
	32 Ethylbenzene	FID2B	25.086	25.086	(1.735)	1028986	40.0000	39.0
	33 m,p-xylene	FID2B	25.376	25.376	(1.755)	2260864	80.0000	79.2
M	34 Xylene (tot)	FID2B				3223172	120.000	119
	35 o-xylene	FID2B	26.953	26.953	(1.864)	962308	40.0000	40.2
	36 bromoform	AIB1A	28.206	28.206	(2.237)	18878670	40.0000	43.7
$	37 1,4-dichlorobutane	AIB1A	28.506	28.506	(2.261)	30059282	40.0000	37.8
	38 1,1,2,2-tetrachloroethane	AIB1A	28.753	28.753	(2.280)	29831304	40.0000	35.8
$	39 4-bromofluorobenzene	FID2B	28.983	28.983	(2.005)	1079672	40.0000	40.8
	40 1,3-dichlorobenzene	AIB1A	31.340	31.340	(2.485)	26977449	40.0000	38.1
	41 1,4-dichlorobenzene	AIB1A	31.506	31.506	(2.499)	31872597	40.0000	35.0
	42 1,2-dichlorobenzene	AIB1A	32.093	32.093	(2.545)	27840172	40.0000	37.0

QC Flag Legend

M - Compound response manually integrated.

Data File: \\REINHARD\ee\chem\vgc5.i\W5090702Wcal.b\40PPB.D
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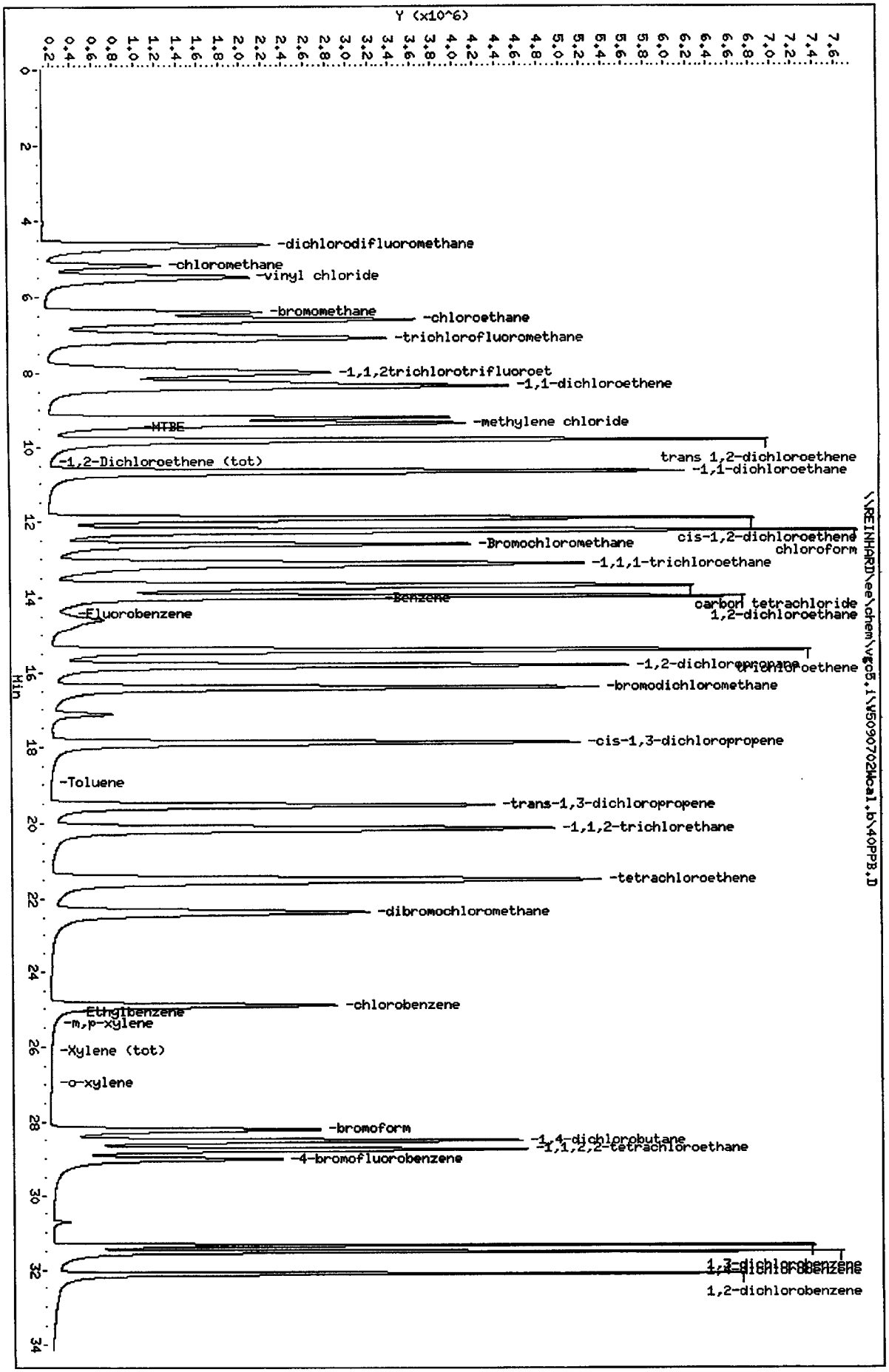
Client ID: 40PPB
Sample Info: 40PPB
Purge Volume: 5.0
Column phase: RTX 502.2

Instrument: vgc5.i
Operator:
Column diameter: 0.53



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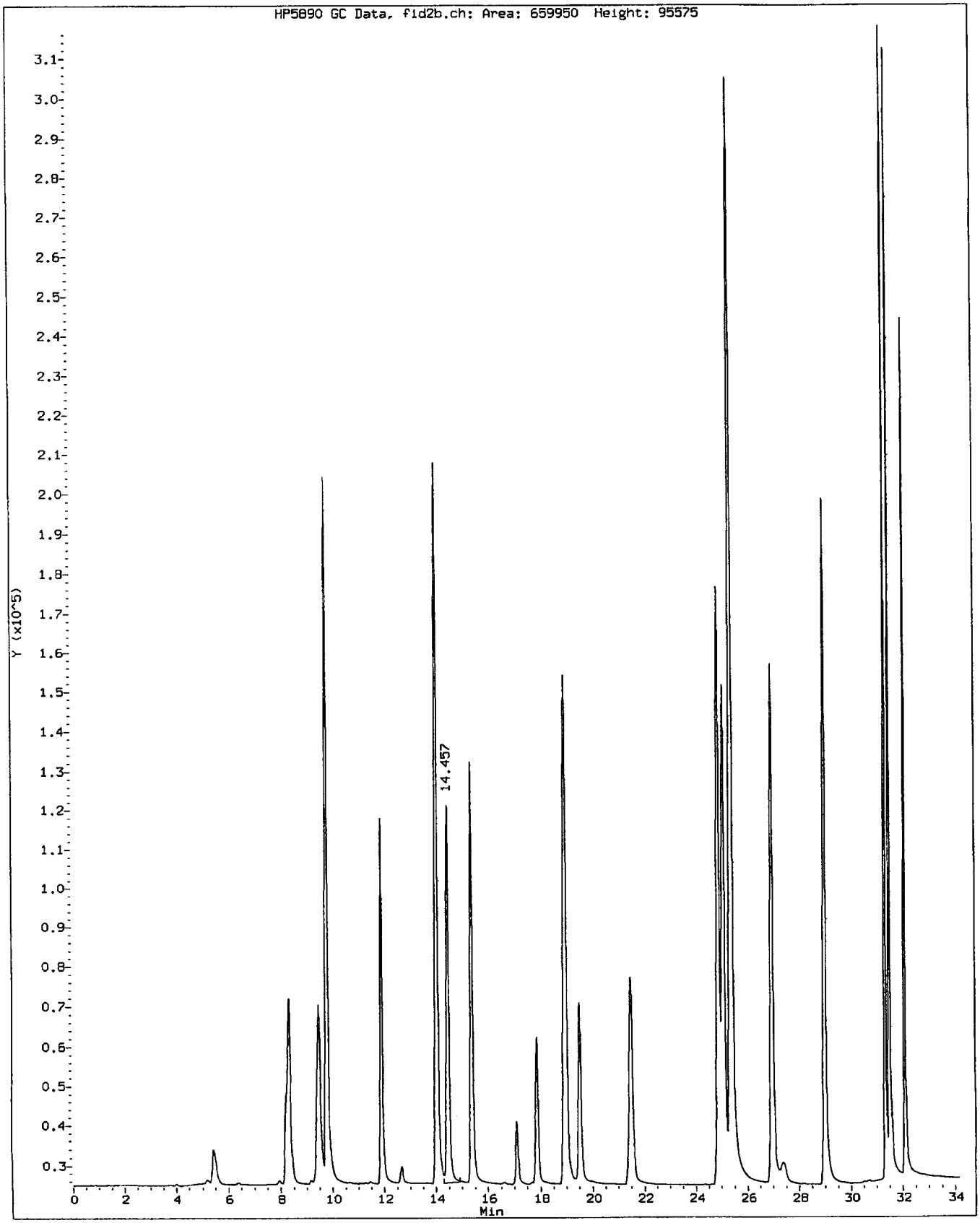
Injection Date: 07-SEP-2002 16:25
Instrument: vgc5.i
Client Sample ID: 40PPB

Compound: Fluorobenzene
CAS Number: 462-06-6



Data File: \\REINHARD\ee\chem\vgc5.i\V5090702Wcal.b\50PPB.D
Report Date: 04-Oct-2002 12:10

PEL Laboratories, Inc.

Data file : \\REINHARD\ee\chem\vgc5.i\V5090702Wcal.b\50PPB.D
Lab Smp Id: 50PPB Client Smp ID: 50PPB
Inj Date : 07-SEP-2002 17:52
Operator : Inst ID: vgc5.i
Smp Info : 50PPB
Misc Info :
Comment :
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Meth Date : 04-Oct-2002 12:10 mjacobs Quant Type: ISTD
Cal Date : 07-SEP-2002 10:30 Cal File: 500PPT.D
Als bottle: 16 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.04
Processing Host: REINHARD

Concentration Formula: Amt * DF * Vf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	Final Volume
Vo	5.000	Sample Volume

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
	1 dichlorodifluoromethane	AIB1A	4.613	4.613	(0.366)	29555965	50.0000	50.0
	2 chloromethane	AIB1A	5.166	5.166	(0.410)	11219402	50.0000	42.3
	3 vinyl chloride	AIB1A	5.466	5.466	(0.434)	26562546	50.0000	46.8
	4 bromomethane	AIB1A	6.400	6.400	(0.508)	19186658	50.0000	52.6
	5 chloroethane	AIB1A	6.596	6.596	(0.523)	41534221	50.0000	43.7
	6 trichlorofluoromethane	AIB1A	7.073	7.073	(0.561)	45284083	50.0000	46.1
	7 1,1,2trichlorotrifluoroethane	AIB1A	7.983	7.983	(0.633)	41233993	50.0000	45.2(M)
	8 1,1-dichloroethene	AIB1A	8.343	8.343	(0.662)	60983240	50.0000	41.7
	9 methylene chloride	AIB1A	9.190	9.190	(0.729)	70507108	50.0000	41.3(M)
	10 MTBE	FID2B	9.463	9.463	(0.654)	536257	50.0000	48.3
	11 trans 1,2-dichloroethene	AIB1A	9.800	9.800	(0.777)	54532273	50.0000	40.0
M	12 1,2-Dichloroethene (tot)	AIB1A				107186042	100.000	81.7
	13 1,1-dichloroethane	AIB1A	10.653	10.653	(0.845)	56939741	50.0000	41.9
	14 cis-1,2-dichloroethene	AIB1A	11.913	11.913	(0.945)	52653769	50.0000	41.7
	15 chloroform	AIB1A	12.240	12.240	(0.971)	66098396	50.0000	41.1
*	16 Bromochloromethane	AIB1A	12.606	12.606	(1.000)	27856954	30.0000	

Data File: \\REINHARD\ee\chem\vgc5.i\V5090702Wcal.b\50PPB.D
Report Date: 04-Oct-2002 12:10

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
	17 1,1,1-trichloroethane	AIB1A	13.113	13.113	(1.040)	56013788	50.0000	38.3
	18 carbon tetrachloride	AIB1A	13.690	13.690	(1.086)	64369168	50.0000	39.1
	19 1,2-dichloroethane	AIB1A	13.973	13.973	(1.108)	53635545	50.0000	40.6
	20 Benzene	FID2B	14.030	14.030	(0.970)	1496291	50.0000	47.2
*	21 Fluorobenzene	FID2B	14.460	14.460	(1.000)	657068	30.0000	
	22 trichloroethene	AIB1A	15.396	15.396	(1.221)	59273461	50.0000	39.2
	23 1,2-dichloropropane	AIB1A	15.810	15.810	(1.254)	49087763	50.0000	41.2
	24 bromodichloromethane	AIB1A	16.403	16.403	(1.301)	48273191	50.0000	42.3
	25 cis-1,3-dichloropropene	AIB1A	17.886	17.886	(1.419)	47469256	50.0000	41.8
	26 Toluene	FID2B	18.953	18.953	(1.311)	1330613	50.0000	47.6
	27 trans-1,3-dichloropropene	AIB1A	19.530	19.530	(1.549)	42265392	50.0000	42.9
	28 1,1,2-trichlorethane	AIB1A	20.140	20.140	(1.598)	53506348	50.0000	43.7
	29 tetrachloroethene	AIB1A	21.493	21.493	(1.705)	68077748	50.0000	40.0
	30 dibromochloromethane	AIB1A	22.363	22.363	(1.774)	38347341	50.0000	46.8
	31 chlorobenzene	AIB1A	24.903	24.903	(1.975)	28127250	50.0000	44.9
	32 Ethylbenzene	FID2B	25.083	25.083	(1.735)	1243028	50.0000	47.4
	33 m,p-xylene	FID2B	25.376	25.376	(1.755)	2724178	100.000	95.9
M	34 Xylene (tot)	FID2B				3890529	150.000	145
	35 o-xylene	FID2B	26.950	26.950	(1.864)	1166351	50.0000	49.0
	36 bromoform	AIB1A	28.206	28.206	(2.237)	22314151	50.0000	51.2
$	37 1,4-dichlorobutane	AIB1A	28.506	28.506	(2.261)	35715666	50.0000	44.6
	38 1,1,2,2-tetrachloroethane	AIB1A	28.750	28.750	(2.281)	35560379	50.0000	42.3
$	39 4-bromofluorobenzene	FID2B	28.983	28.983	(2.004)	1304335	50.0000	49.4
	40 1,3-dichlorobenzene	AIB1A	31.340	31.340	(2.486)	31774229	50.0000	44.5
	41 1,4-dichlorobenzene	AIB1A	31.506	31.506	(2.499)	37514531	50.0000	40.8
	42 1,2-dichlorobenzene	AIB1A	32.090	32.090	(2.545)	33185616	50.0000	43.7(M)

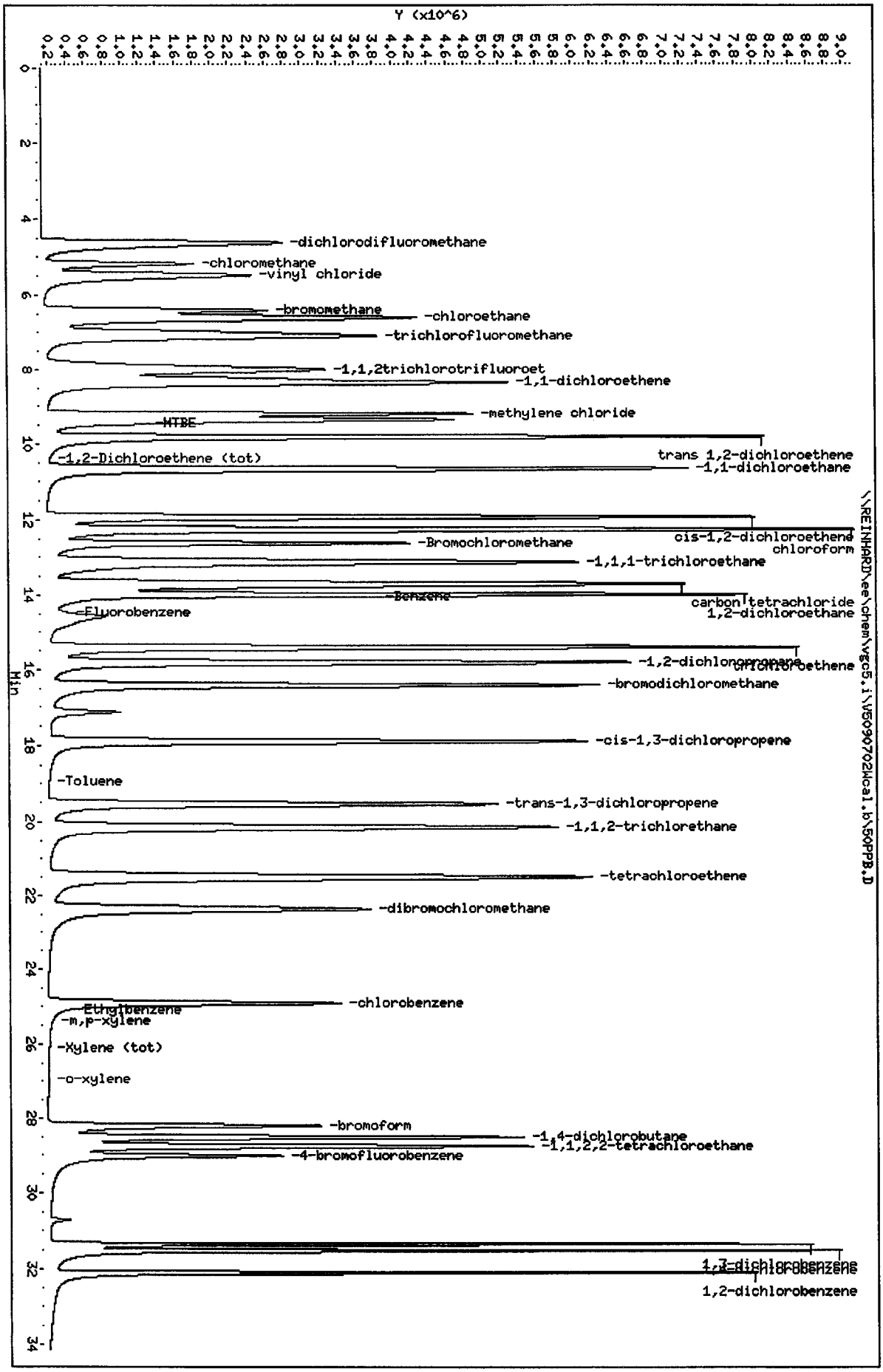
JP

QC Flag Legend

M - Compound response manually integrated.

Data File: \\REINHARD\ee\chem\vgc5.i\V5090702Wcal.b\50PPB.D
Date : 07-SEP-2002 17:52
Client ID: 50PPB
Sample Info: 50PPB
Purge Volume: 5.0
Column phase: RTX 502.2

Instrument: vgc5.i
Operator:
Column diameter: 0.53



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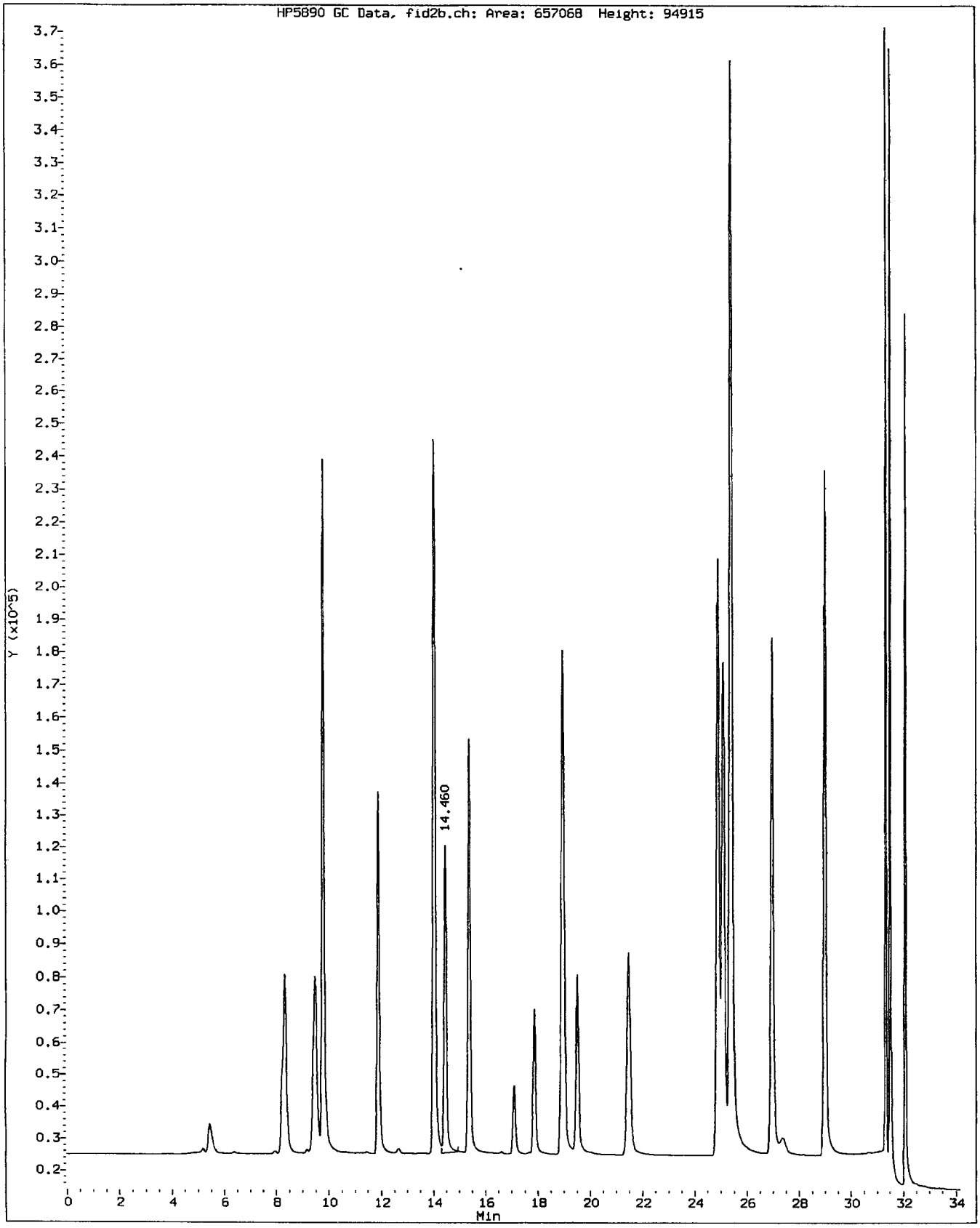
Injection Date: 07-SEP-2002 17:52
Instrument: vgc5.i
Client Sample ID: 50PPB

Compound: Fluorobenzene
CAS Number: 462-06-6



Data File: \\REINHARD\ee\chem\vgc5.i\V5090702Wcal.b\100PPB.D
Report Date: 04-Oct-2002 12:10

PEL Laboratories, Inc.

Data file : \\REINHARD\ee\chem\vgc5.i\V5090702Wcal.b\100PPB.D
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Inj Date : 07-SEP-2002 19:18
Operator : Inst ID: vgc5.i
Smp Info : 100PPB
Misc Info :
Comment :
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Meth Date : 04-Oct-2002 12:10 mjacobs Quant Type: ISTD
Cal Date : 07-SEP-2002 19:18 Cal File: 100PPB.D
Als bottle: 2 Calibration Sample, Level: 10
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.04
Processing Host: REINHARD

Concentration Formula: Amt * DF * Vf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	Final Volume
Vo	5.000	Sample Volume

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
	1 dichlorodifluoromethane	AIB1A	4.593	4.593	(0.365)	54490408	100.000	90.6(A)
	2 chloromethane	AIB1A	5.146	5.146	(0.408)	22893030	100.000	84.9(A)
	3 vinyl chloride	AIB1A	5.440	5.440	(0.432)	49907603	100.000	86.5(A)
	4 bromomethane	AIB1A	6.373	6.373	(0.506)	34853358	100.000	93.9(A)
	5 chloroethane	AIB1A	6.566	6.566	(0.521)	74708652	100.000	77.2(A)
	6 trichlorofluoromethane	AIB1A	7.046	7.046	(0.559)	81680965	100.000	81.8(A)
	7 1,1,2trichlorotrifluoroethane	AIB1A	7.973	7.973	(0.633)	79433432	100.000	85.5(M)
	8 1,1-dichloroethene	AIB1A	8.326	8.326	(0.661)	108251198	100.000	72.7(A)
	9 methylene chloride	AIB1A	9.176	9.176	(0.728)	124558654	100.000	71.8(A)
	10 MTBE	FID2B	9.470	9.470	(0.655)	1027443	100.000	89.8
	11 trans 1,2-dichloroethene	AIB1A	9.803	9.803	(0.778)	92912978	100.000	67.0(A)
M	12 1,2-Dichloroethene (tot)	AIB1A				182628012	200.000	137
	13 1,1-dichloroethane	AIB1A	10.653	10.653	(0.846)	100449686	100.000	72.7(A)
	14 cis-1,2-dichloroethene	AIB1A	11.923	11.923	(0.946)	89715034	100.000	69.8(A)
	15 chloroform	AIB1A	12.263	12.263	(0.973)	107150912	100.000	65.5(A)
*	16 Bromochloromethane	AIB1A	12.600	12.600	(1.000)	28339598	30.0000	

Data File: \\REINHARD\ee\chem\vgc5.i\V5090702Wcal.b\100PPB.D
Report Date: 04-Oct-2002 12:10

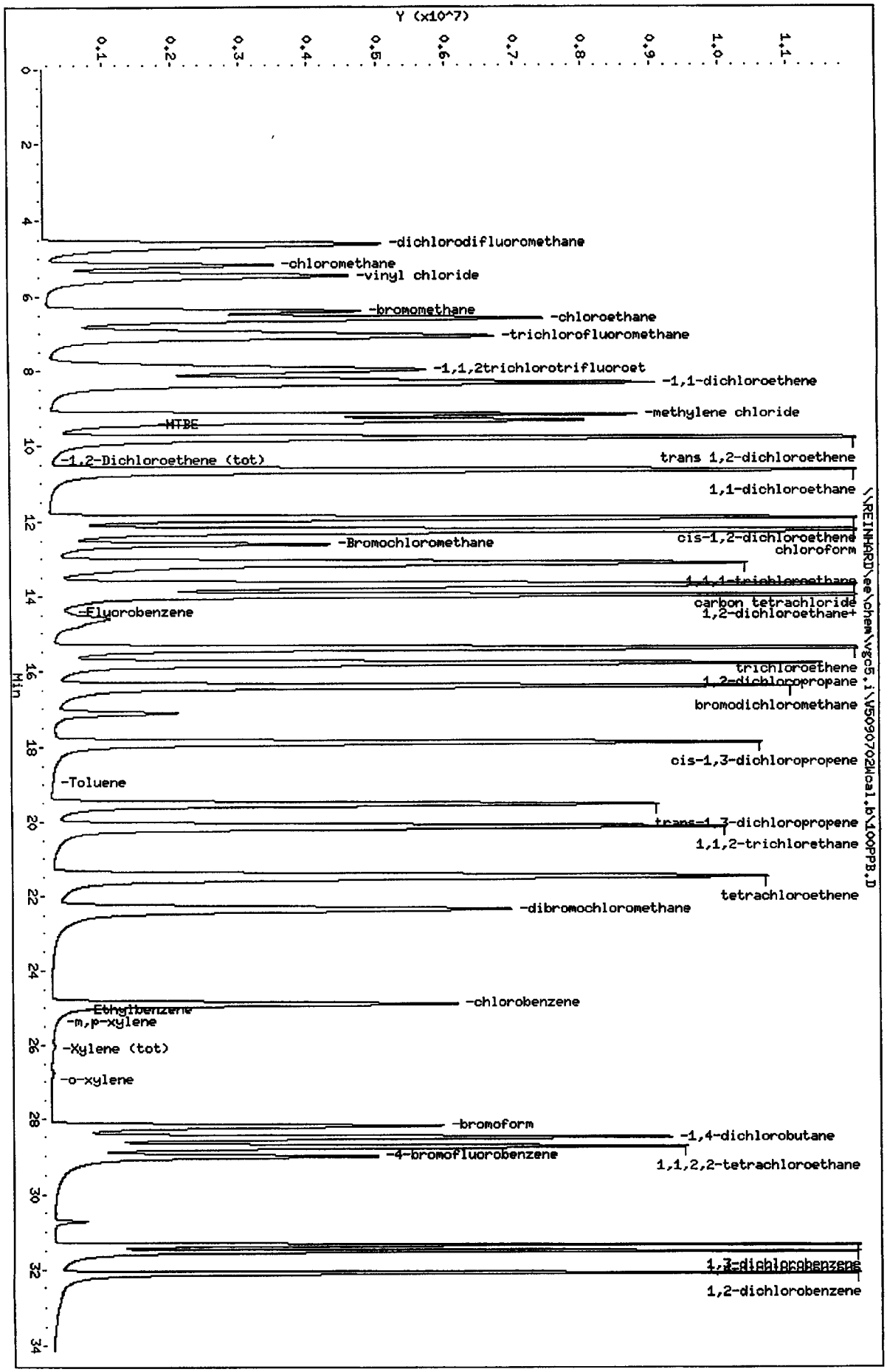
	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
	17 1,1,1-trichloroethane	AIB1A	13.110	13.110	(1.040)	100837412	100.000	67.8(A)
	18 carbon tetrachloride	AIB1A	13.686	13.686	(1.086)	113655677	100.000	67.9(A)
	19 1,2-dichloroethane	AIB1A	13.980	13.980	(1.110)	90855911	100.000	67.5(A)
	20 Benzene	FID2B	14.023	14.023	(0.970)	2965270	100.000	90.8
*	21 Fluorobenzene	FID2B	14.450	14.450	(1.000)	677693	30.0000	
	22 trichloroethene	AIB1A	15.413	15.413	(1.223)	98584571	100.000	64.1(A)
	23 1,2-dichloropropane	AIB1A	15.800	15.800	(1.254)	87118448	100.000	71.9(A)
	24 bromodichloromethane	AIB1A	16.403	16.403	(1.302)	87702252	100.000	75.6(A)
	25 cis-1,3-dichloropropene	AIB1A	17.876	17.876	(1.419)	84403753	100.000	73.0(A)
	26 Toluene	FID2B	18.943	18.943	(1.311)	2628788	100.000	91.2
	27 trans-1,3-dichloropropene	AIB1A	19.523	19.523	(1.549)	76452338	100.000	76.2(A)
	28 1,1,2-trichlorethane	AIB1A	20.130	20.130	(1.598)	94933727	100.000	76.2(A)
	29 tetrachloroethene	AIB1A	21.480	21.480	(1.705)	121884695	100.000	70.4(A)
	30 dibromochloromethane	AIB1A	22.353	22.353	(1.774)	73273245	100.000	87.8(A)
	31 chlorobenzene	AIB1A	24.896	24.896	(1.976)	52389295	100.000	82.2
	32 Ethylbenzene	FID2B	25.080	25.080	(1.736)	2467766	100.000	91.1
	33 m,p-xylene	FID2B	25.376	25.376	(1.756)	5371537	200.000	183
M	34 Xylene (tot)	FID2B				7694753	300.000	278
	35 o-xylene	FID2B	26.950	26.950	(1.865)	2323216	100.000	94.6
	36 bromoform	AIB1A	28.206	28.206	(2.239)	42839870	100.000	96.6(A)
$	37 1,4-dichlorobutane	AIB1A	28.506	28.506	(2.262)	62572079	100.000	76.7(A)
	38 1,1,2,2-tetrachloroethane	AIB1A	28.750	28.750	(2.282)	61719468	100.000	72.1(A)
$	39 4-bromofluorobenzene	FID2B	28.983	28.983	(2.006)	2549084	100.000	93.7(A)
	40 1,3-dichlorobenzene	AIB1A	31.346	31.346	(2.488)	52680490	100.000	72.5
	41 1,4-dichlorobenzene	AIB1A	31.513	31.513	(2.501)	61234318	100.000	65.4
	42 1,2-dichlorobenzene	AIB1A	32.096	32.096	(2.547)	56496543	100.000	73.2

QC Flag Legend

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

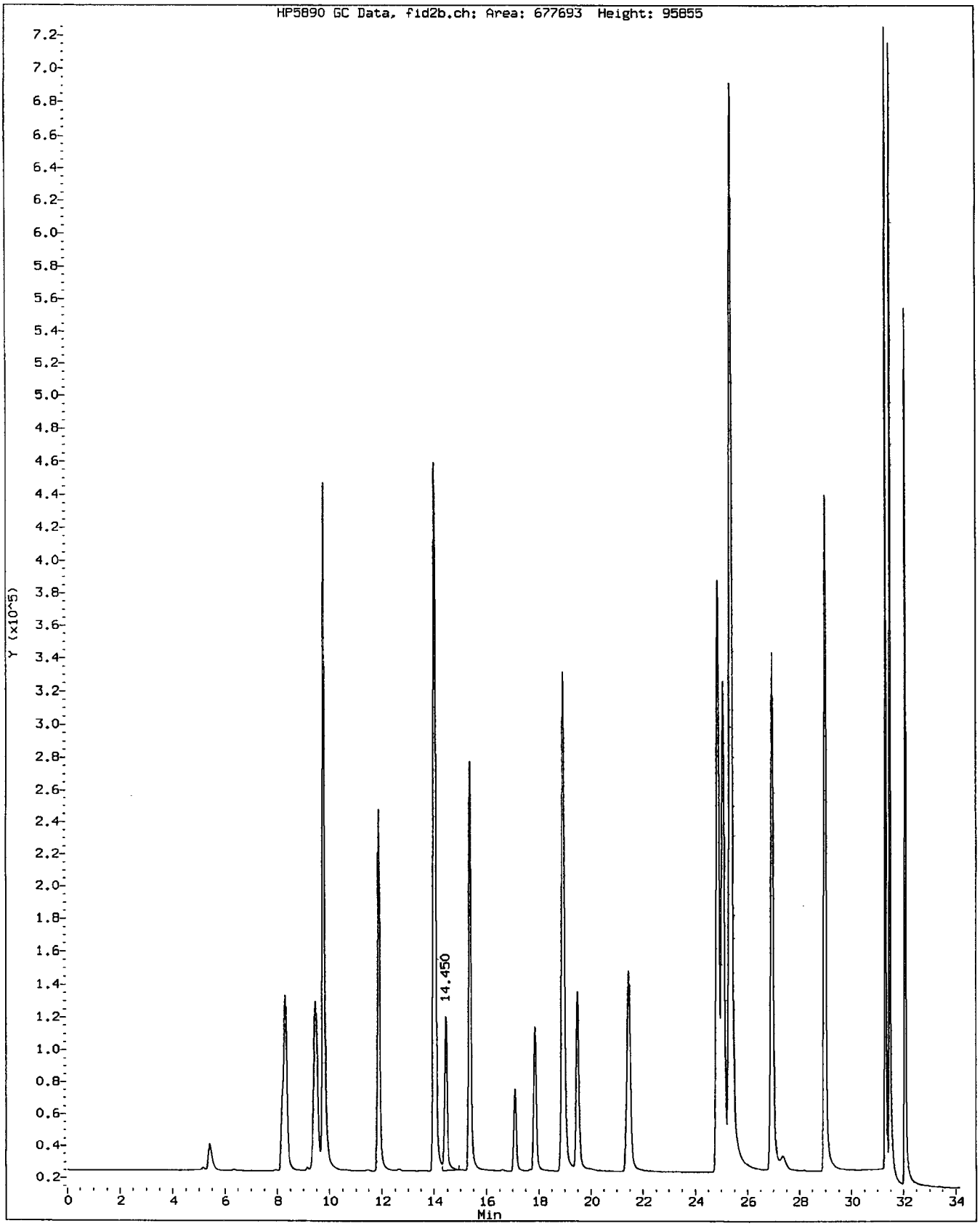
Data File: \\REINHARD\ee\chem\vgc5.i\50907O2Wcal.b\100PPB.D
Date : 07-SEP-2002 19:18
Client ID: 100PPB
Sample Info: 100PPB
Purge Volume: 5.0
Column phase: RTX 502.2

Instrument: vgc5.i
Operator:
Column diameter: 0.53



Data File: \\REINHARD\ee\chem\vgc5.i\V5090702Wcal.b\100PPB.D
Injection Date: 07-SEP-2002 19:18
Instrument: vgc5.i
Client Sample ID: 100PPB

Compound: Fluorobenzene
CAS Number: 462-06-6



Data File: \\REINHARD\ee\chem\vgc5.i\V5090702Wcal.b\SEC51.D
Report Date: 04-Oct-2002 12:10

PEL Laboratories, Inc.

Data file : \\REINHARD\ee\chem\vgc5.i\V5090702Wcal.b\SEC51.D
Lab Smp Id: 090407SECA51 Client Smp ID: 090407SECA51
Inj Date : 07-SEP-2002 20:44
Operator : Inst ID: vgc5.i
Smp Info : 090702SECA51
Misc Info :
Comment :
Method : \\Reinhard\ee\chem\vgc5.i\V5090702Wcal.b\8021.m
Meth Date : 04-Oct-2002 12:10 mjacobs Quant Type: ISTD
Cal Date : 07-SEP-2002 19:18 Cal File: 100PPB.D
Als bottle: 4 QC Sample: SSC
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.04
Processing Host: REINHARD

Concentration Formula: Amt * DF * Vf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	Final Volume
Vo	5.000	Sample Volume

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	1 dichlorodifluoromethane	AIB1A	4.606	4.593	(0.365)	14303046	24.8439	24.8
	2 chloromethane	AIB1A	5.160	5.146	(0.409)	8893376	34.4531	34.4
	3 vinyl chloride	AIB1A	5.446	5.440	(0.432)	16368599	29.6307	29.6
	4 bromomethane	AIB1A	6.390	6.373	(0.507)	11808076	33.2480	33.2
	5 chloroethane	AIB1A	6.580	6.566	(0.522)	25960425	28.0301	28.0
	6 trichlorofluoromethane	AIB1A	7.060	7.046	(0.560)	28955396	30.2839	30.3
	7 1,1,2trichlorotrifluoroethane	AIB1A	7.980	7.973	(0.633)	1408171	1.58402	1.6(R)
	8 1,1-dichloroethene	AIB1A	8.333	8.326	(0.661)	38986711	27.3564	27.4(Q)
	9 methylene chloride	AIB1A	9.180	9.176	(0.728)	45592891	27.4555	27.4
	10 MTBE	FID2B	9.463	9.470	(0.655)	331215	31.3661	31.4
	11 trans 1,2-dichloroethene	AIB1A	9.793	9.803	(0.777)	37782783	28.4612	28.5(Q)
M	12 1,2-Dichloroethene (tot)	AIB1A				73768895	57.7023	57.7
	13 1,1-dichloroethane	AIB1A	10.646	10.653	(0.845)	38205422	28.8791	28.9
	14 cis-1,2-dichloroethene	AIB1A	11.906	11.923	(0.945)	35986112	29.2412	29.2(Q)
	15 chloroform	AIB1A	12.236	12.263	(0.971)	42028091	26.8479	26.8
*	16 Bromochloromethane	AIB1A	12.603	12.600	(1.000)	27128454	30.0000	

Data File: \\REINHARD\ee\chem\vgc5.i\V5090702Wcal.b\SEC51.D
Report Date: 04-Oct-2002 12:10

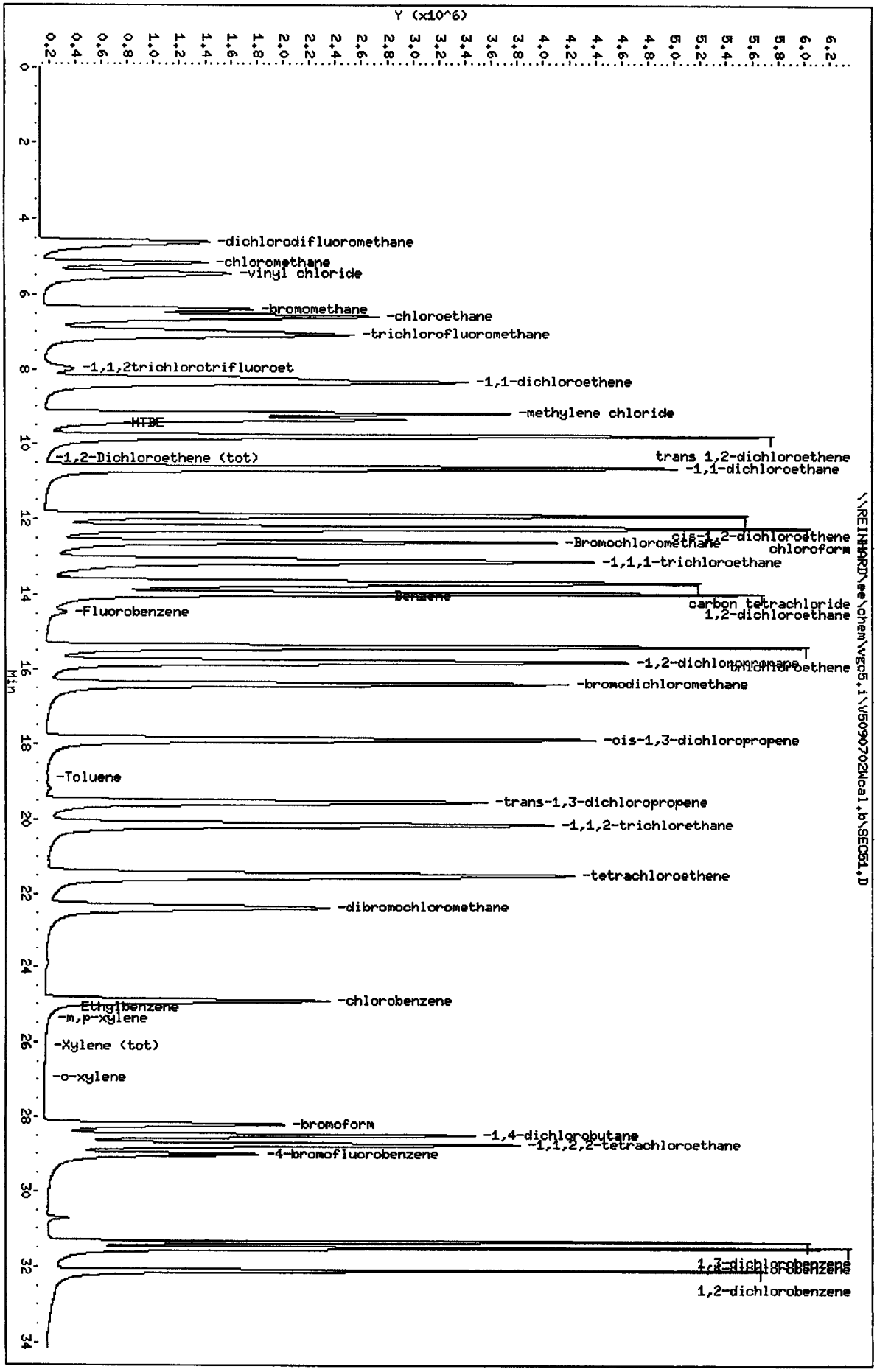
	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	17 1,1,1-trichloroethane	AIB1A	13.110	13.110	(1.040)	39496564	27.7377	27.7
	18 carbon tetrachloride	AIB1A	13.686	13.686	(1.086)	45182666	28.2143	28.2
	19 1,2-dichloroethane	AIB1A	13.970	13.980	(1.108)	37396059	29.0325	29.0
	20 Benzene	FID2B	14.026	14.023	(0.970)	887915	29.4546	29.4
*	21 Fluorobenzene	FID2B	14.456	14.450	(1.000)	625245	30.0000	
	22 trichloroethene	AIB1A	15.396	15.413	(1.222)	41211949	27.9920	28.0(Q)
	23 1,2-dichloropropane	AIB1A	15.803	15.800	(1.254)	33532916	28.9221	28.9
	24 bromodichloromethane	AIB1A	16.403	16.403	(1.302)	25266750	22.7580	22.8
	25 cis-1,3-dichloropropene	AIB1A	17.883	17.876	(1.419)	33569832	30.3263	30.3
	26 Toluene	FID2B	18.953	18.943	(1.311)	843767	31.7479	31.7
	27 trans-1,3-dichloropropene	AIB1A	19.530	19.523	(1.550)	28608963	29.8001	29.8
	28 1,1,2-trichlorethane	AIB1A	20.140	20.130	(1.598)	36390691	30.4982	30.5
	29 tetrachloroethene	AIB1A	21.496	21.480	(1.706)	45117669	27.2094	27.2
	30 dibromochloromethane	AIB1A	22.363	22.353	(1.774)	22861370	28.6226	28.6
	31 chlorobenzene	AIB1A	24.906	24.896	(1.976)	18764621	30.7516	30.8
	32 Ethylbenzene	FID2B	25.086	25.080	(1.735)	777319	31.1191	31.1
	33 m,p-xylene	FID2B	25.380	25.376	(1.756)	1747252	64.6362	64.6
M	34 Xylene (tot)	FID2B				2473252	96.6957	96.7
	35 o-xylene	FID2B	26.950	26.950	(1.864)	726000	32.0595	32.0
	36 bromoform	AIB1A	28.206	28.206	(2.238)	13856904	32.6379	32.6
$	37 1,4-dichlorobutane	AIB1A	28.506	28.506	(2.262)	22235571	28.4897	28.5
	38 1,1,2,2-tetrachloroethane	AIB1A	28.753	28.750	(2.281)	24014275	29.3255	29.3
$	39 4-bromofluorobenzene	FID2B	28.983	28.983	(2.005)	759515	30.2595	30.2
	40 1,3-dichlorobenzene	AIB1A	31.340	31.346	(2.487)	22107167	31.7696	31.8(Q)
	41 1,4-dichlorobenzene	AIB1A	31.506	31.513	(2.500)	26655315	29.7572	29.8
	42 1,2-dichlorobenzene	AIB1A	32.090	32.096	(2.546)	23489922	31.7800	31.8(Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

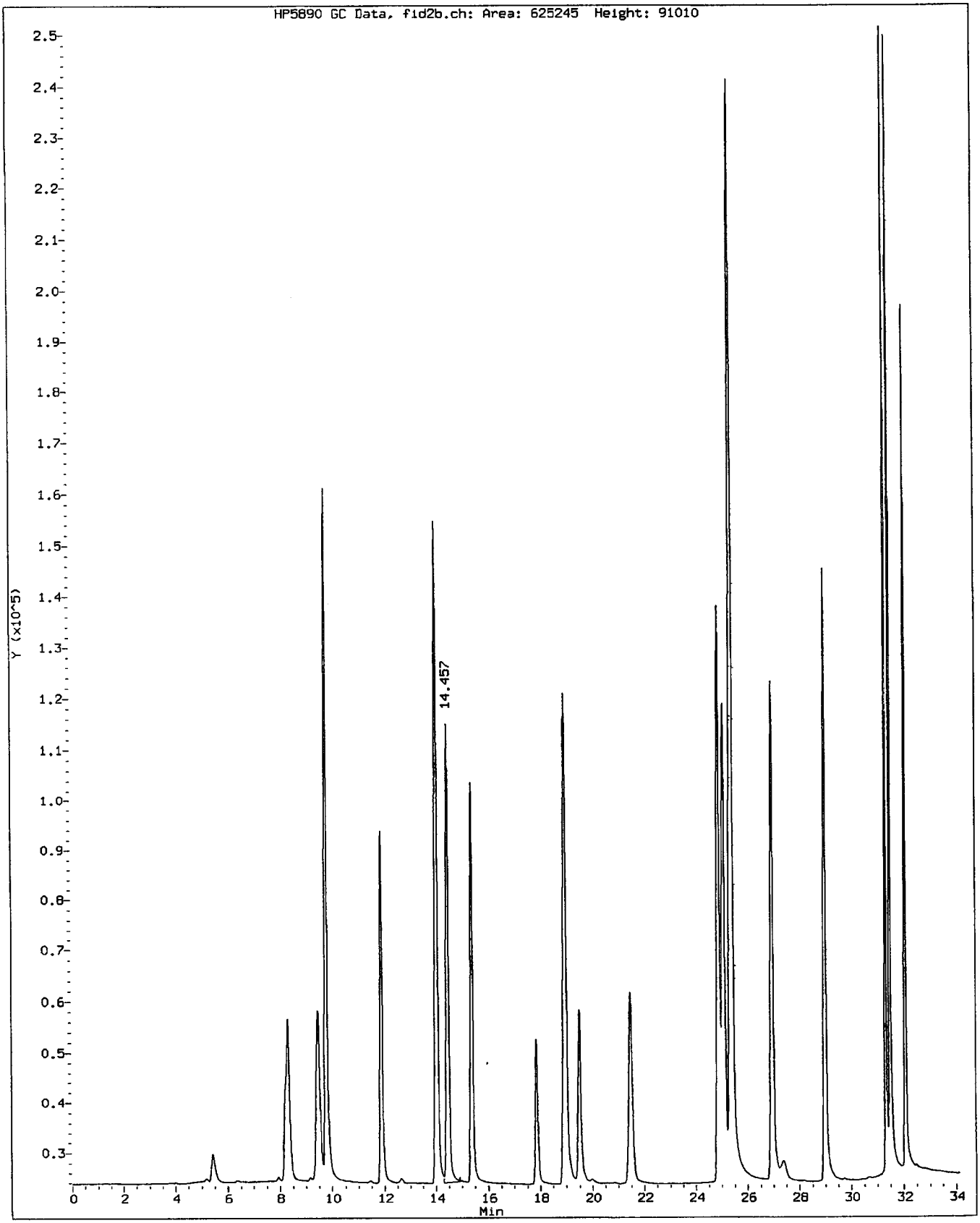
Data File: \\REINHARD\ee\chem\vgc5.i\V5090702Wcal.b\SEC51.D
Date : 07-SEP-2002 20:44
Client ID: 090407SECA51
Sample Info: 090702SECA51
Purge Volume: 5.0
Column phase: RTX 502.2

Instrument: vgc5.i
Operator:
Column diameter: 0.53



Data File: \\REINHARD\ee\chem\vgc5.i\V5090702Wcal.b\SEC51.D
Injection Date: 07-SEP-2002 20:44
Instrument: vgc5.i
Client Sample ID: 090407SECA51

Compound: Fluorobenzene
CAS Number: 462-06-6



Data File: \\REINHARD\ee\chem\vgc5.i\V5092702.b\CCV52.D
Report Date: 04-Oct-2002 12:26

PEL Laboratories, Inc.

Data file : \\REINHARD\ee\chem\vgc5.i\V5092702.b\CCV52.D
Lab Smp Id: 092702CCVA52 Client Smp ID: 092702CCVA52
Inj Date : 27-SEP-2002 08:06
Operator : EB Inst ID: vgc5.i
Smp Info : 092702CCVA52
Misc Info :
Comment :
Method : \\Reinhard\ee\chem\vgc5.i\V5092702.b\8021.m
Meth Date : 04-Oct-2002 12:26 mjacobs Quant Type: ISTD
Cal Date : 07-SEP-2002 19:18 Cal File: 100PPB.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8021rl.sub
Target Version: 4.04
Processing Host: REINHARD

Concentration Formula: Amt * DF * Vf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	Final Volume
Vo	5.000	Sample Volume

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
	1 dichlorodifluoromethane	AIB1A	4.590	4.590	(0.365)	25193253	30.0000	31.7
	2 chloromethane	AIB1A	5.120	5.120	(0.408)	8483540	30.0000	23.8
	3 vinyl chloride	AIB1A	5.410	5.410	(0.431)	24308391	30.0000	31.8
	4 bromomethane	AIB1A	6.363	6.363	(0.507)	16834125	30.0000	34.3
	5 chloroethane	AIB1A	6.550	6.550	(0.521)	38872183	30.0000	30.4
	6 trichlorofluoromethane	AIB1A	7.036	7.036	(0.560)	41989173	30.0000	31.8
	8 1,1-dichloroethene	AIB1A	8.290	8.290	(0.660)	53686694	30.0000	27.3(M)
	9 methylene chloride	AIB1A	9.146	9.146	(0.728)	62838486	30.0000	27.4(M)
	10 MTBE	FID2B	9.420	9.420	(0.654)	294801	30.0000	29.1
	11 trans 1,2-dichloroethene	AIB1A	9.760	9.760	(0.777)	47663728	30.0000	26.0
	13 1,1-dichloroethane	AIB1A	10.613	10.613	(0.845)	50183072	30.0000	27.5
	14 cis-1,2-dichloroethene	AIB1A	11.873	11.873	(0.945)	46058984	30.0000	27.1
M	12 1,2-Dichloroethene (tot)	AIB1A				93722712	60.0000	53.1
	15 chloroform	AIB1A	12.196	12.196	(0.971)	57244667	30.0000	26.5
*	16 Bromochloromethane	AIB1A	12.563	12.563	(1.000)	37468516	30.0000	
	17 1,1,1-trichloroethane	AIB1A	13.073	13.073	(1.041)	51155582	30.0000	26.0

Data File: \\REINHARD\ee\chem\vgc5.i\V5092702.b\CCV52.D
Report Date: 04-Oct-2002 12:26

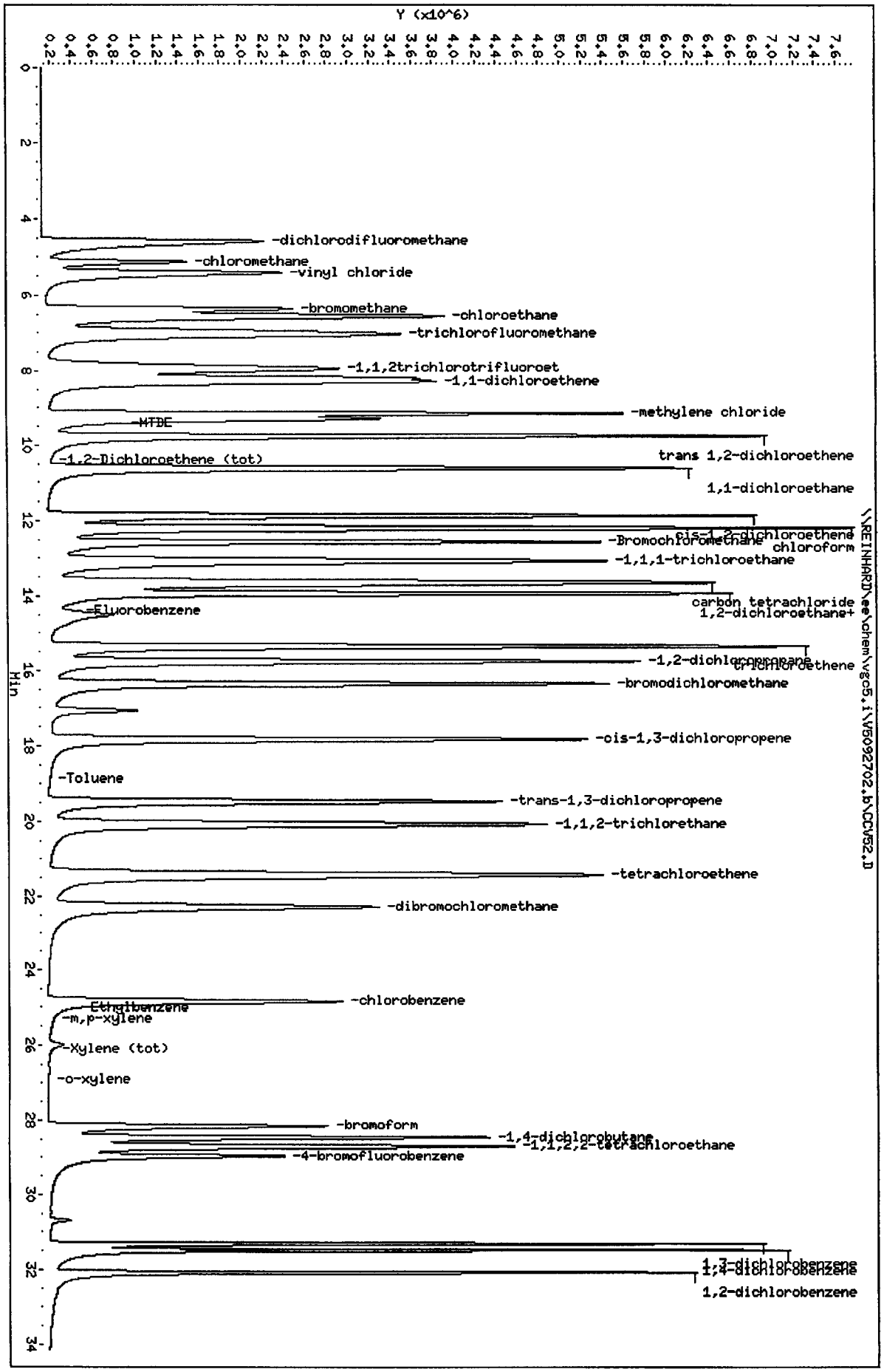
	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
	18 carbon tetrachloride	AIB1A	13.646	13.646	(1.086)	57211518	30.0000	25.9
	19 1,2-dichloroethane	AIB1A	13.930	13.930	(1.109)	45565759	30.0000	25.6
	20 Benzene	FID2B	13.980	13.980	(0.970)	839399	30.0000	29.0
*	21 Fluorobenzene	FID2B	14.410	14.410	(1.000)	599588	30.0000	
	22 trichloroethene	AIB1A	15.356	15.356	(1.222)	52265178	30.0000	25.7
	23 1,2-dichloropropane	AIB1A	15.763	15.763	(1.255)	42864151	30.0000	26.8
	24 bromodichloromethane	AIB1A	16.360	16.360	(1.302)	42734226	30.0000	27.9
	25 cis-1,3-dichloropropene	AIB1A	17.833	17.833	(1.419)	41693897	30.0000	27.3
	26 Toluene	FID2B	18.890	18.890	(1.311)	743913	30.0000	29.2
	27 trans-1,3-dichloropropene	AIB1A	19.470	19.470	(1.550)	37261365	30.0000	28.1
	28 1,1,2-trichlorethane	AIB1A	20.073	20.073	(1.598)	45358704	30.0000	27.5
	29 tetrachloroethene	AIB1A	21.423	21.423	(1.705)	60651158	30.0000	26.5
	30 dibromochloromethane	AIB1A	22.290	22.290	(1.774)	34126957	30.0000	30.9
	31 chlorobenzene	AIB1A	24.853	24.853	(1.978)	25062542	30.0000	29.7
	32 Ethylbenzene	FID2B	25.026	25.026	(1.737)	695733	30.0000	29.0
	33 m,p-xylene	FID2B	25.323	25.323	(1.757)	1518341	60.0000	58.6
	35 o-xylene	FID2B	26.903	26.903	(1.867)	635768	30.0000	29.3
	36 bromoform	AIB1A	28.163	28.163	(2.242)	20113774	30.0000	34.3
M	34 Xylene (tot)	FID2B				2154109	90.0000	87.8
$	37 1,4-dichlorobutane	AIB1A	28.466	28.466	(2.266)	29487507	30.0000	27.4
	38 1,1,2,2-tetrachloroethane	AIB1A	28.713	28.713	(2.285)	29072433	30.0000	25.7
$	39 4-bromofluorobenzene	FID2B	28.940	28.940	(2.008)	680655	30.0000	28.3 (M)
	40 1,3-dichlorobenzene	AIB1A	31.320	31.320	(2.493)	26386752	30.0000	27.4
	41 1,4-dichlorobenzene	AIB1A	31.486	31.486	(2.506)	31941194	30.0000	25.8
	42 1,2-dichlorobenzene	AIB1A	32.073	32.073	(2.553)	27314713	30.0000	26.8

QC Flag Legend

M - Compound response manually integrated.

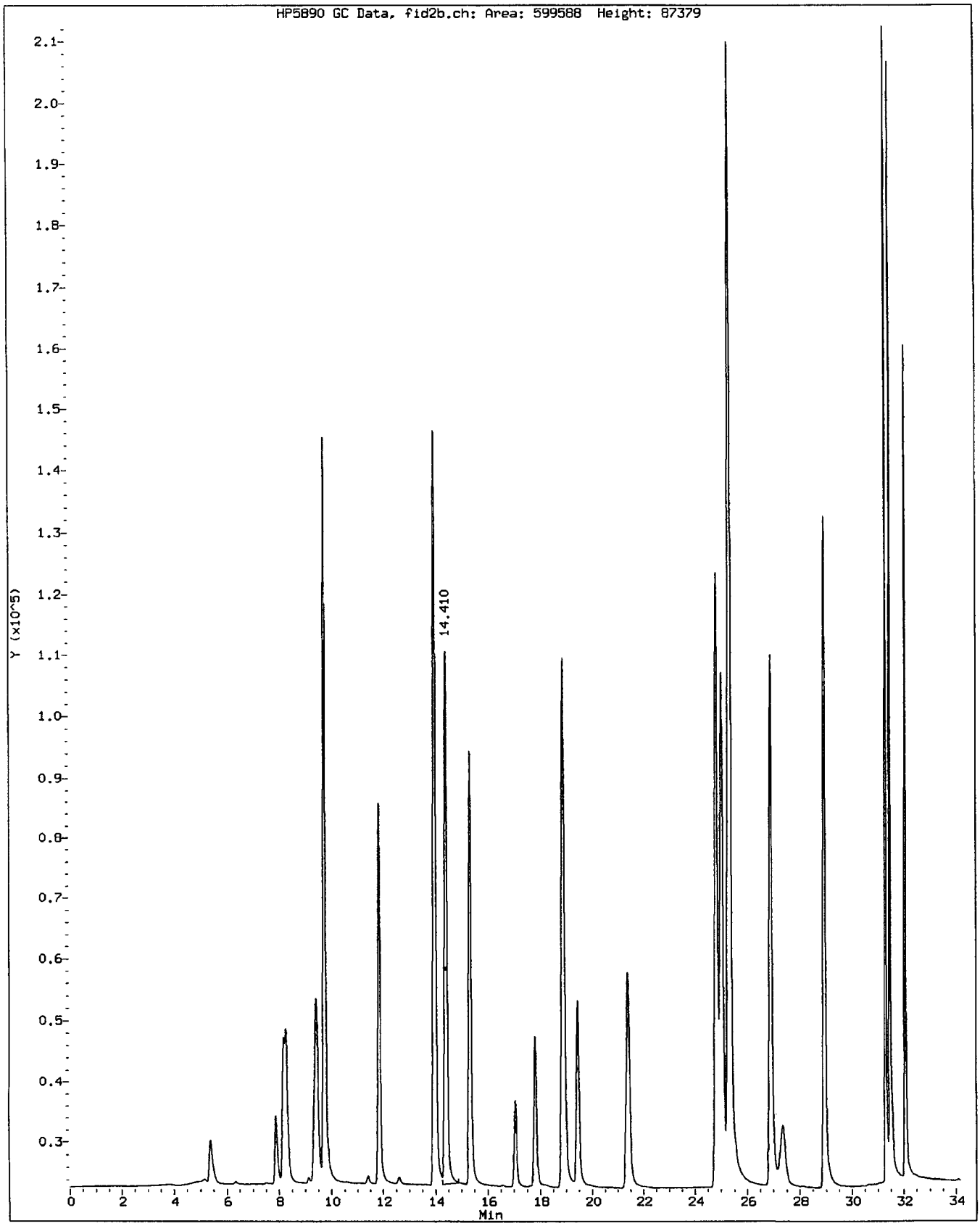
Data File: \\REINHARD\ee\chem\vgc5.i\V5092702.b\CCV52.D
Date : 27-SEP-2002 08:06
Client ID: 092702CCVA52
Sample Info: 092702CCVA52
Purge Volume: 5.0
Column phase: RTX 502.2

Instrument: vgc5.i
Operator: EB
Column diameter: 0.53



Data File: \\REINHARD\ee\chem\vgc5.i\V5092702.b\CCV52.D
Injection Date: 27-SEP-2002 08:06
Instrument: vgc5.i
Client Sample ID: 092702CCVA52

Compound: Fluorobenzene
CAS Number: 462-06-6



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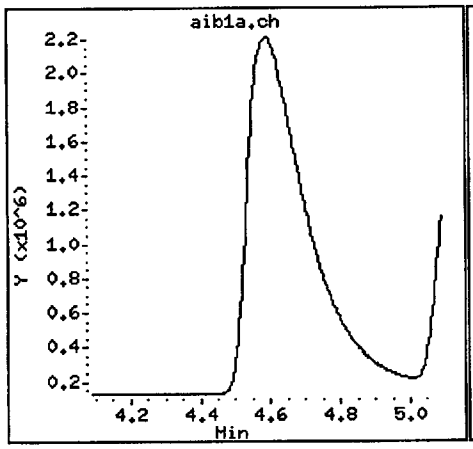
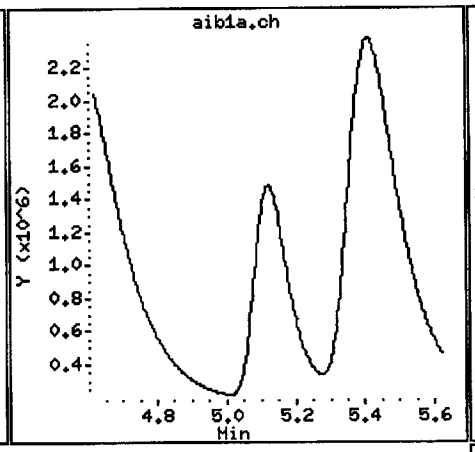
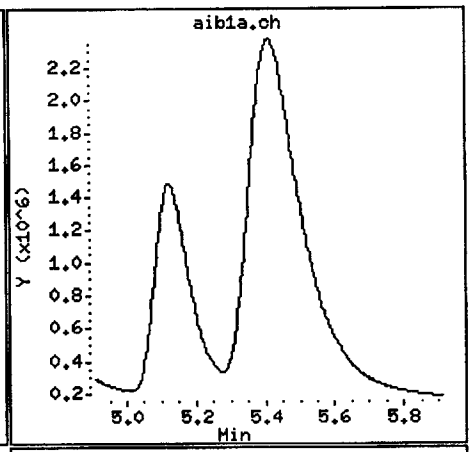
1 dichlorodifluoromethane

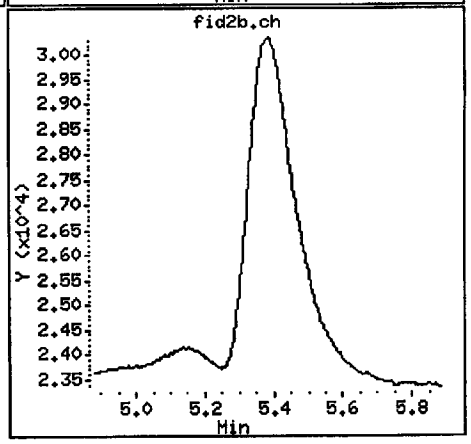


2 chloromethane



3 vinyl chloride





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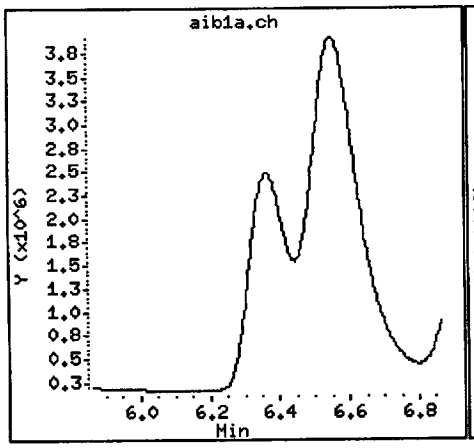
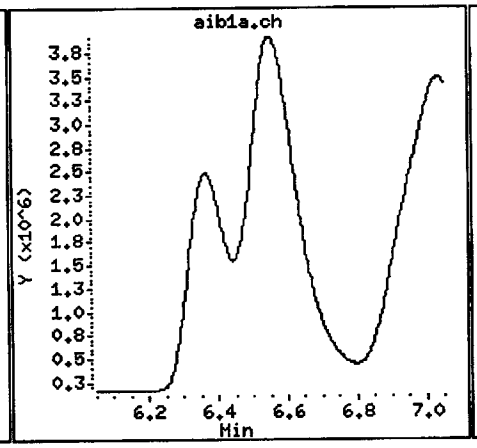
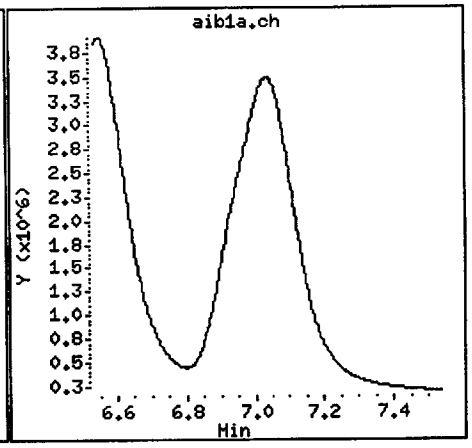
4 bromomethane



5 chloroethane

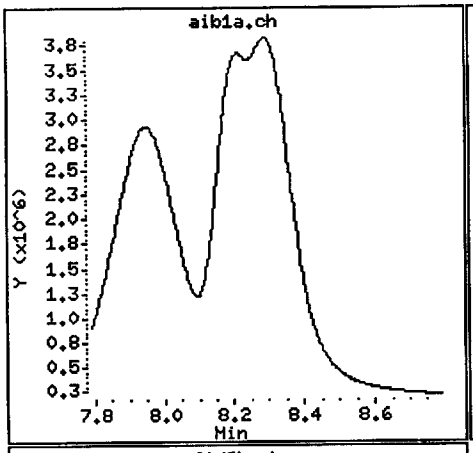


6 trichlorofluoromethane

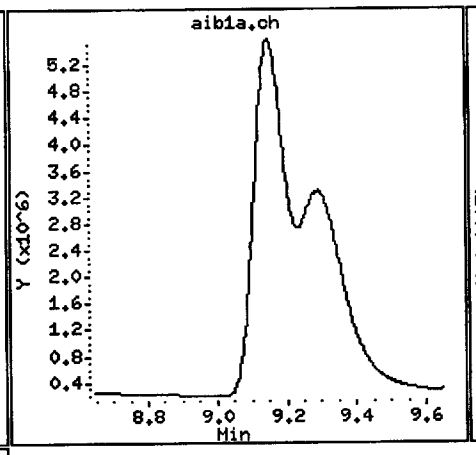


Data File: \\Reinhard\EE\chem\vgc5.i\V5092702.b\CCV52.D

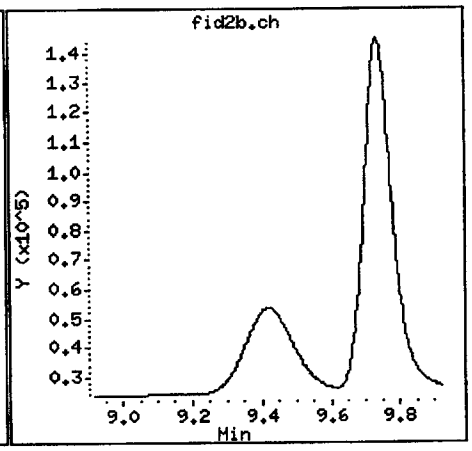
8 1,1-dichloroethene

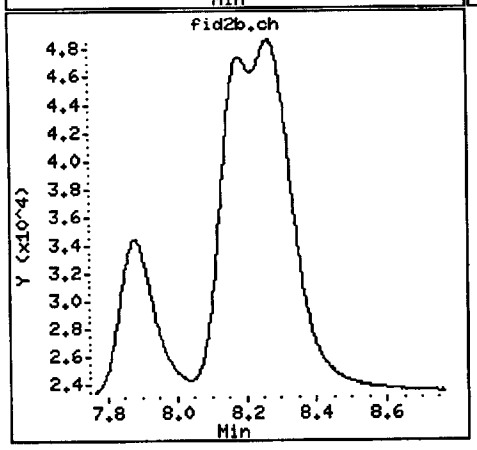


9 methylene chloride



10 MTBE





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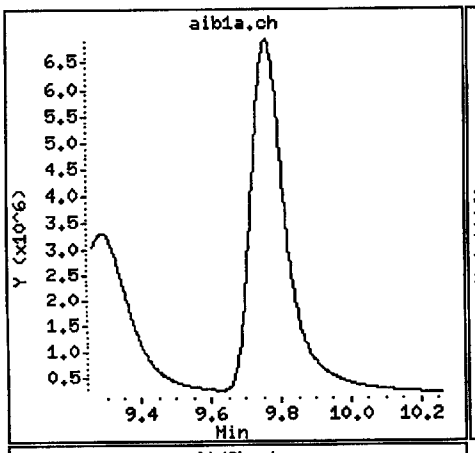
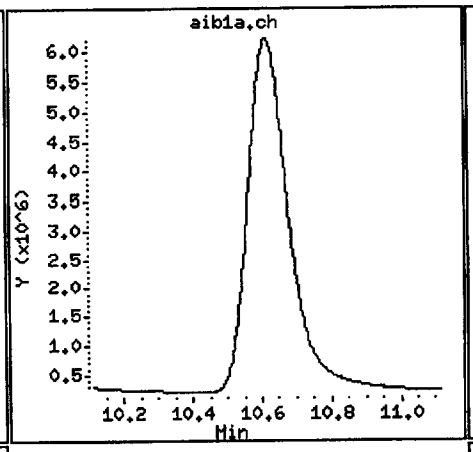
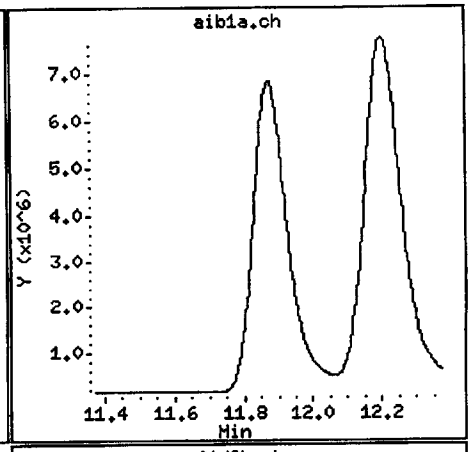
11 trans 1,2-dichloroethene

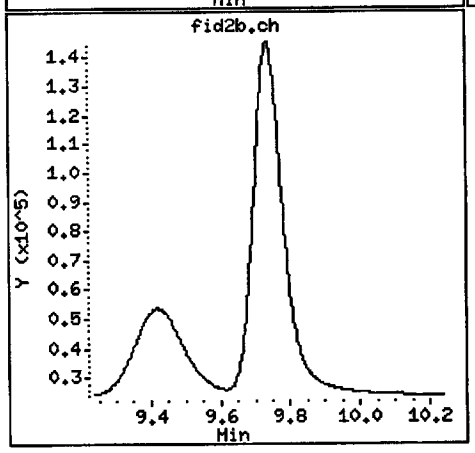


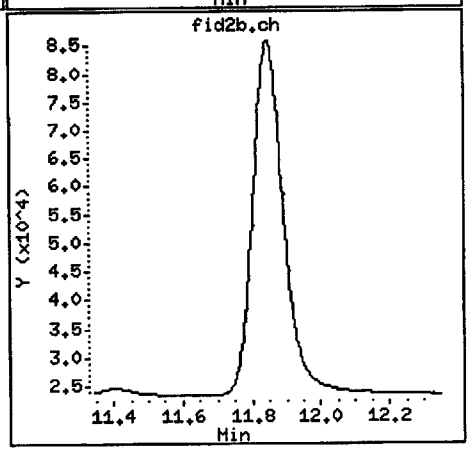
13 1,1-dichloroethane



14 cis-1,2-dichloroethene







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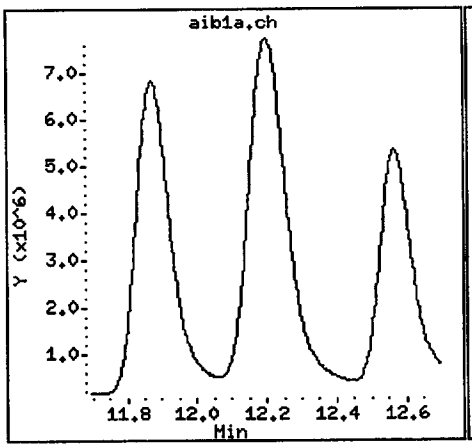
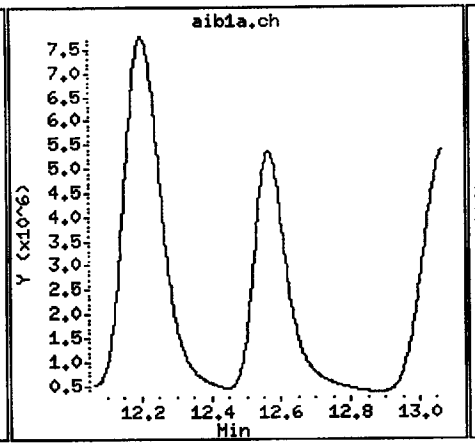
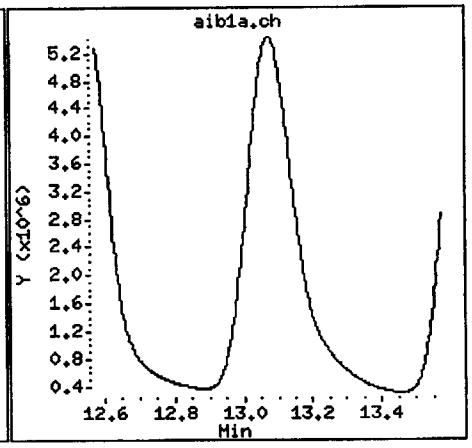
15 chloroform



* 16 Bromochloromethane



17 1,1,1-trichloroethane



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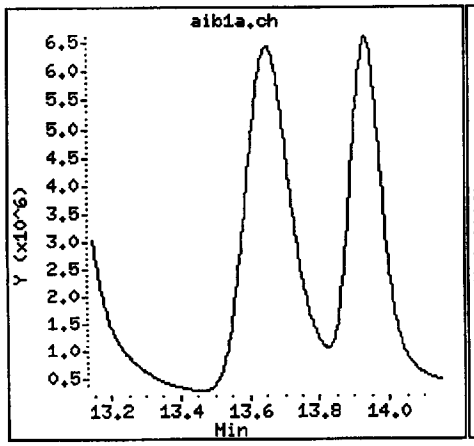
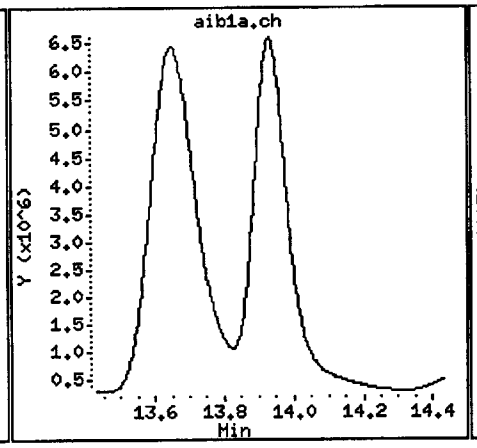
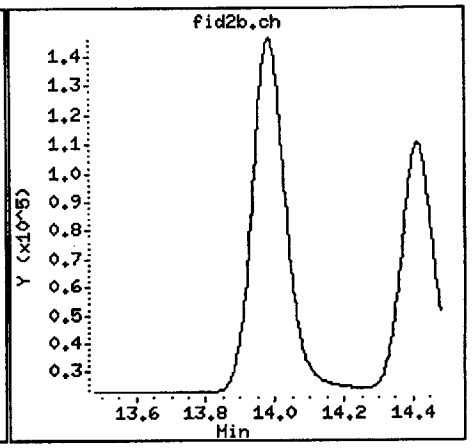
18 carbon tetrachloride



19 1,2-dichloroethane



20 Benzene



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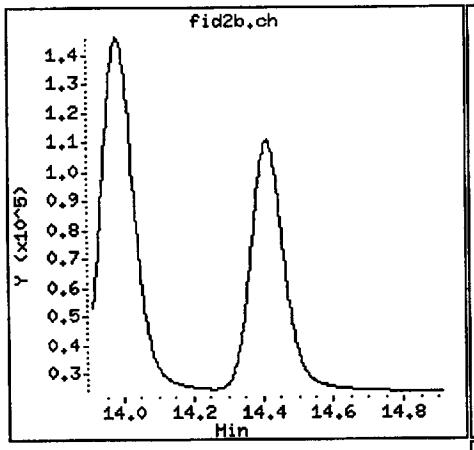
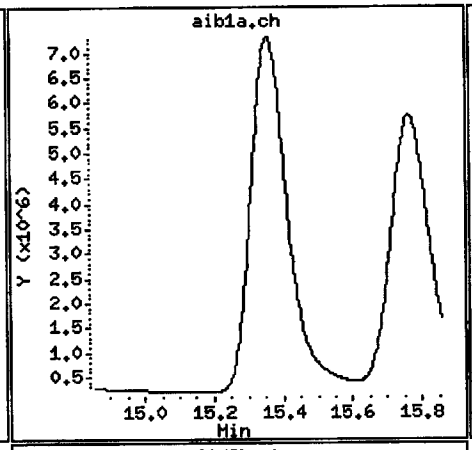
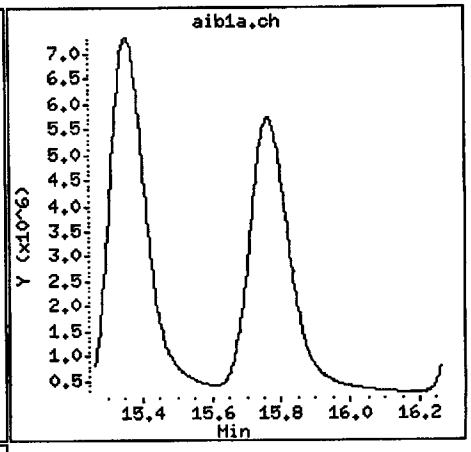
× 21 Fluorobenzene

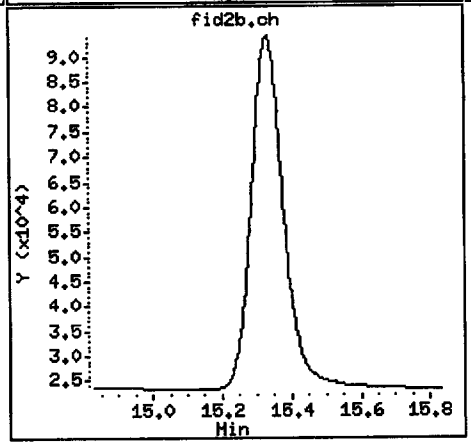


22 trichloroethene



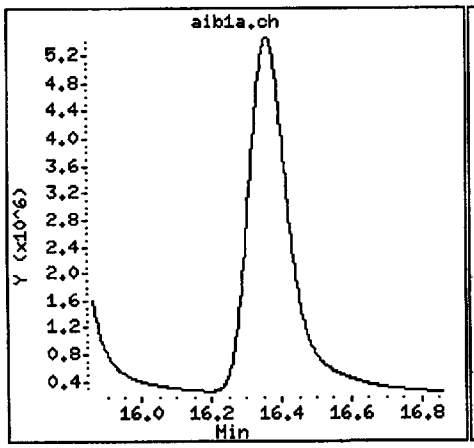
23 1,2-dichloropropane



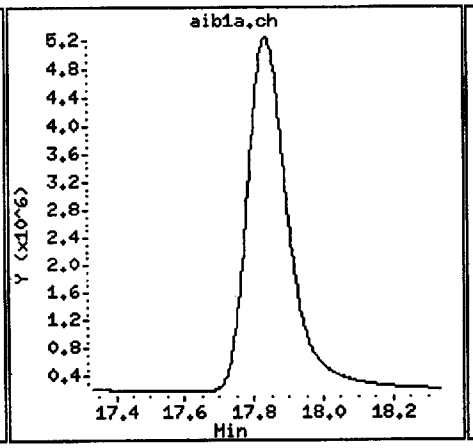


Data File: \\Reinhard\EE\chem\vgc5.i\V5092702.b\CCV52.D

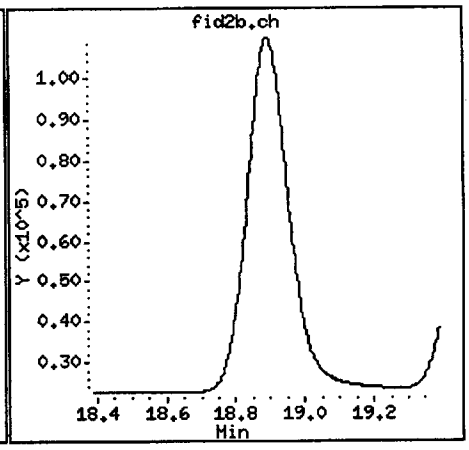
24 bromodichloromethane



25 cis-1,3-dichloropropene

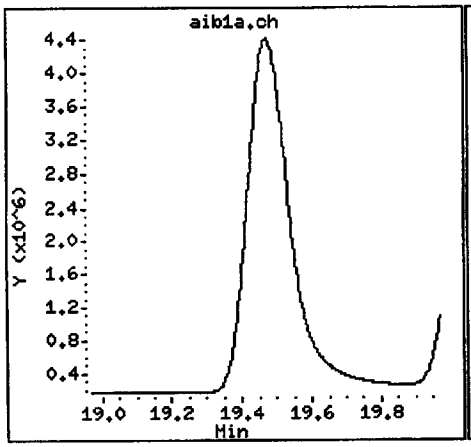


26 Toluene

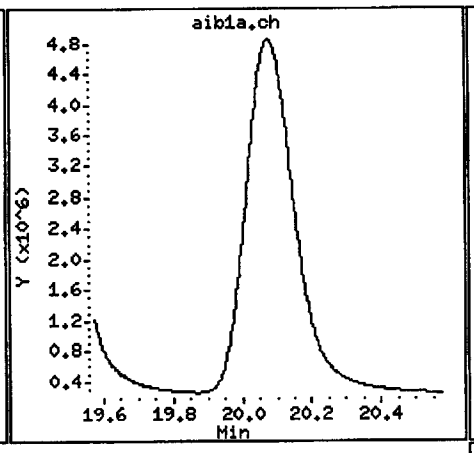


Data File: \\Reinhard\EE\chem\vgc5.i\V5092702.b\CCV52.D

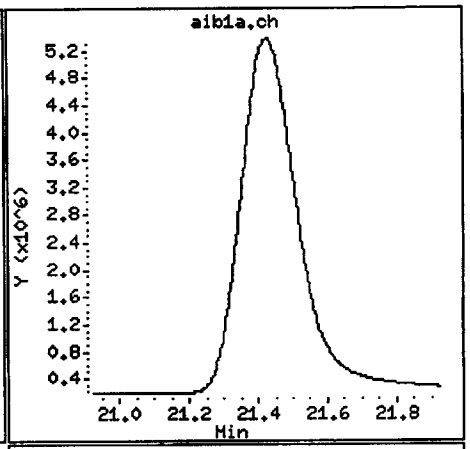
27 trans-1,3-dichloropropen

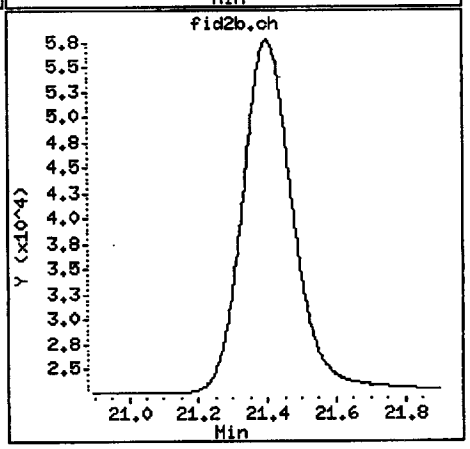


28 1,1,2-trichlorethane



29 tetrachloroethene





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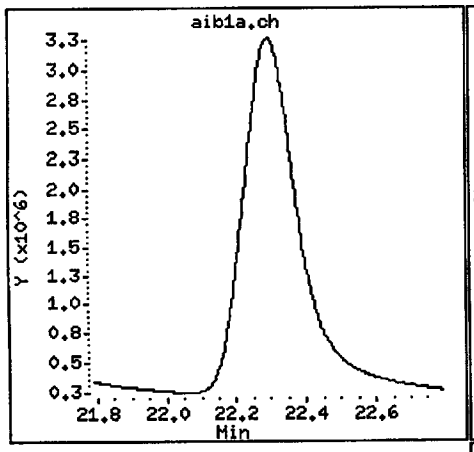
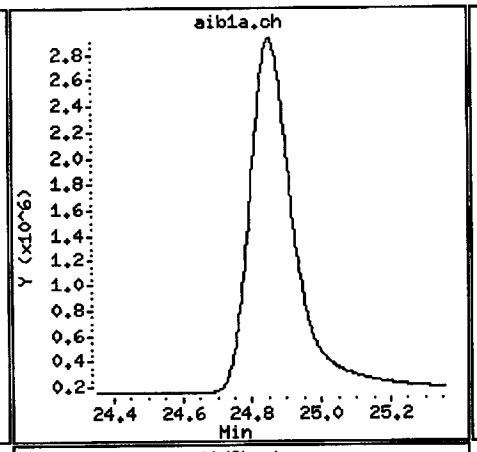
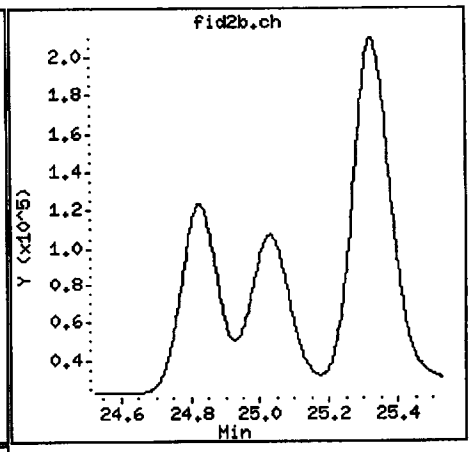
30 dibromochloromethane

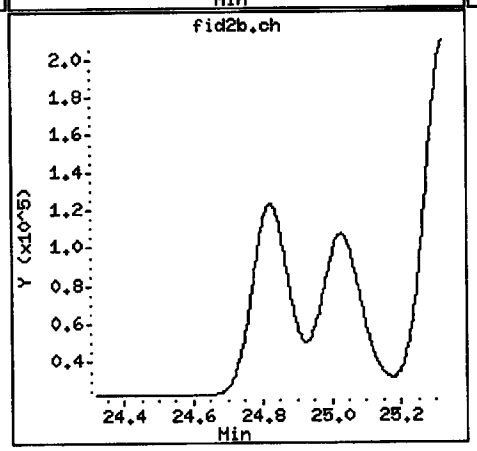


31 chlorobenzene



32 Ethylbenzene





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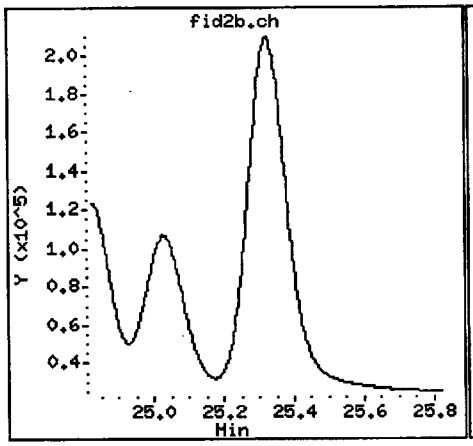
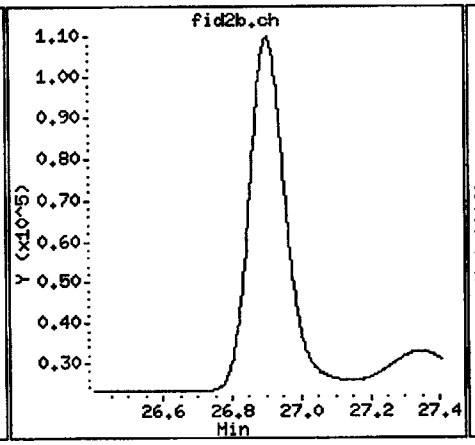
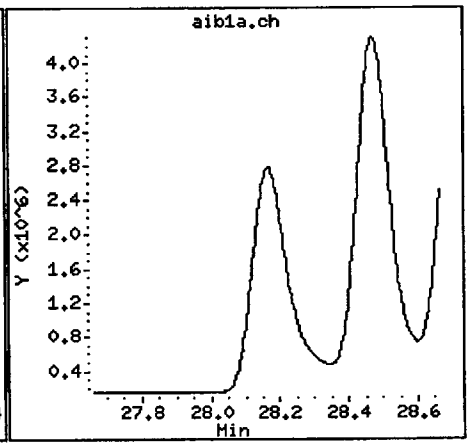
33 m,p-xylene



35 o-xylene



36 bromoform



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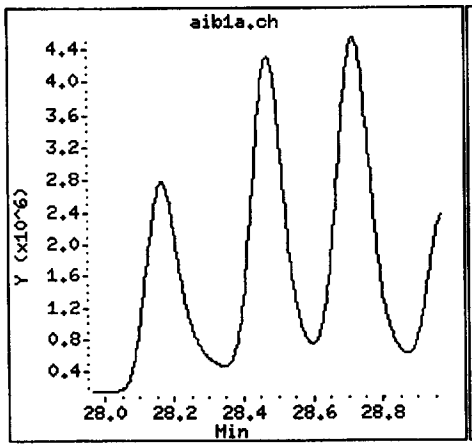
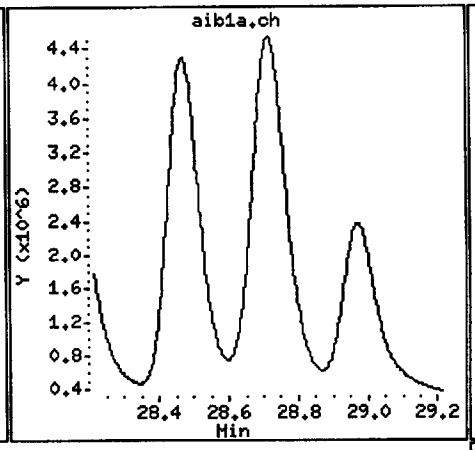
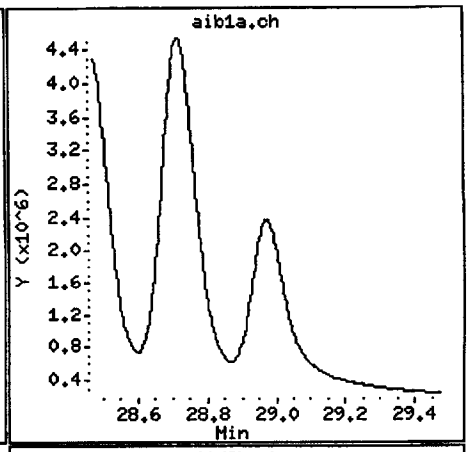
$ 37 1,4-dichlorobutane

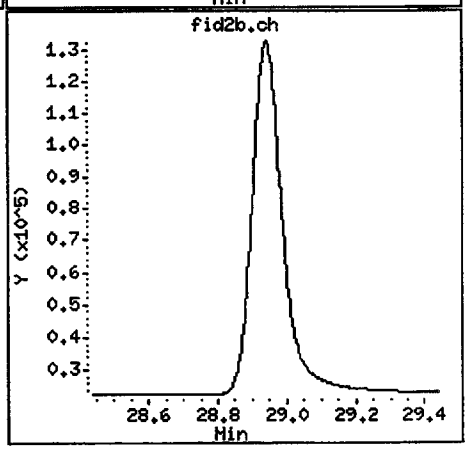


38 1,1,2,2-tetrachloroethan



$ 39 4-bromofluorobenzene





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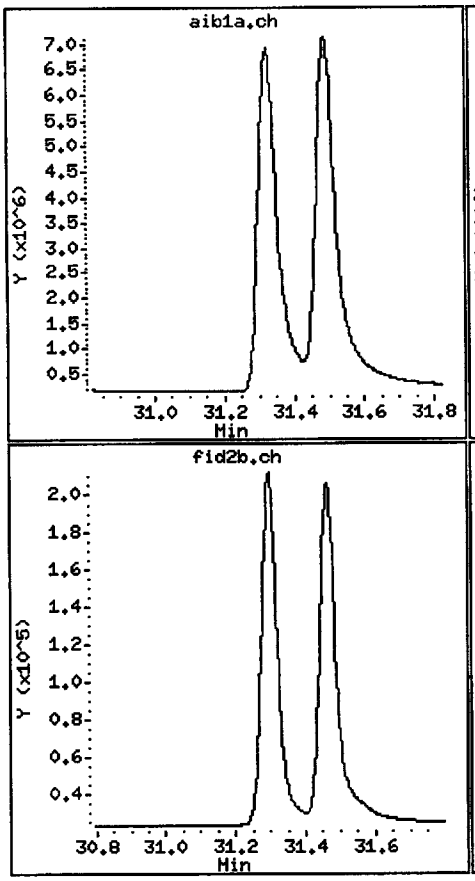
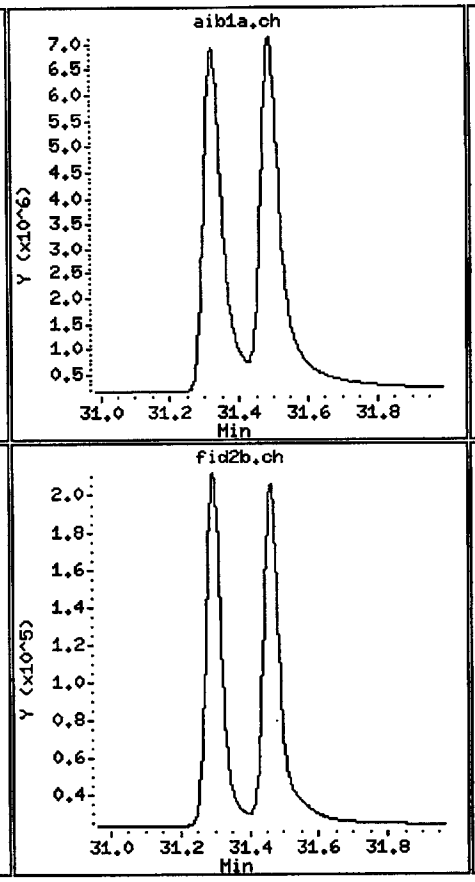
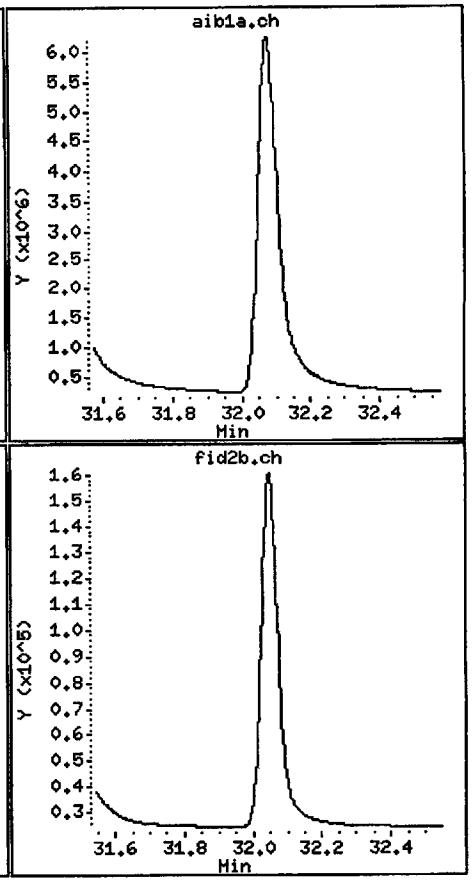
40 1,3-dichlorobenzene



41 1,4-dichlorobenzene



42 1,2-dichlorobenzene



Data File: \\REINHARD\ee\chem\vgc5.i\V5092702.b\BLK51.D
Report Date: 04-Oct-2002 12:26

PEL Laboratories, Inc.

Data file : \\REINHARD\ee\chem\vgc5.i\V5092702.b\BLK51.D
Lab Smp Id: 092702BLKA51 Client Smp ID: 092702BLKA51
Inj Date : 27-SEP-2002 10:22
Operator : EB Inst ID: vgc5.i
Smp Info : 092702BLKA51
Misc Info :
Comment :
Method : \\Reinhard\ee\chem\vgc5.i\V5092702.b\8021.m
Meth Date : 04-Oct-2002 12:26 mjacobs Quant Type: ISTD
Cal Date : 07-SEP-2002 19:18 Cal File: 100PPB.D
Als bottle: 4 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8021rl.sub
Target Version: 4.04
Processing Host: REINHARD

Concentration Formula: Amt * DF * Vf/Vo

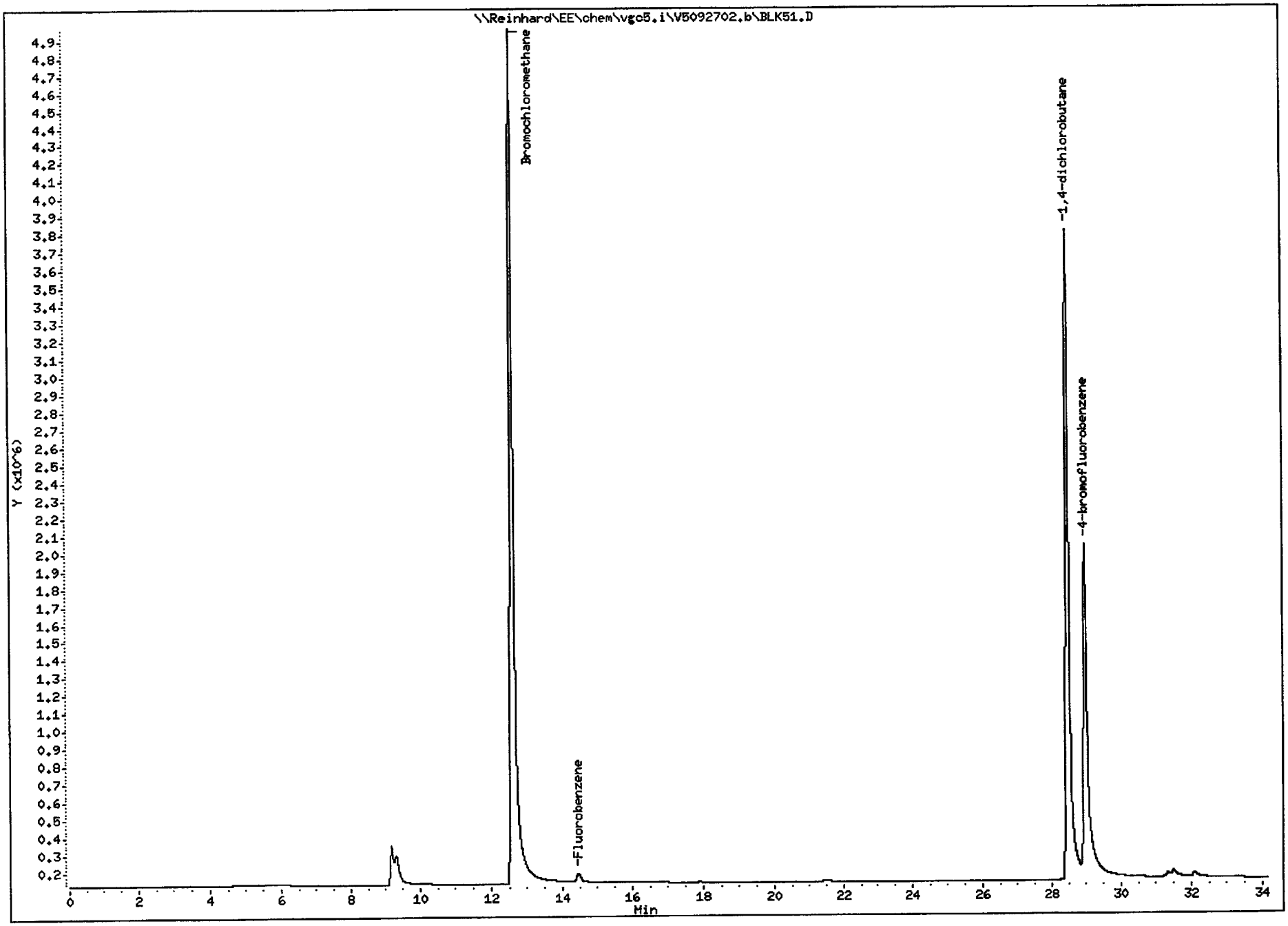
Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	Final Volume
Vo	5.000	Sample Volume

Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
9 methylene chloride	AIB1A	9.173	9.146	(0.729)	2575130	1.14058	1.1(a)
* 16 Bromochloromethane	AIB1A	12.583	12.563	(1.000)	36883434	30.0000	
* 21 Fluorobenzene	FID2B	14.430	14.410	(1.000)	547699	30.0000	
$ 37 1,4-dichlorobutane	AIB1A	28.476	28.466	(2.263)	27153874	25.5897	25.6
$ 39 4-bromofluorobenzene	FID2B	28.946	28.940	(2.006)	601878	27.3742	27.4

QC Flag Legend

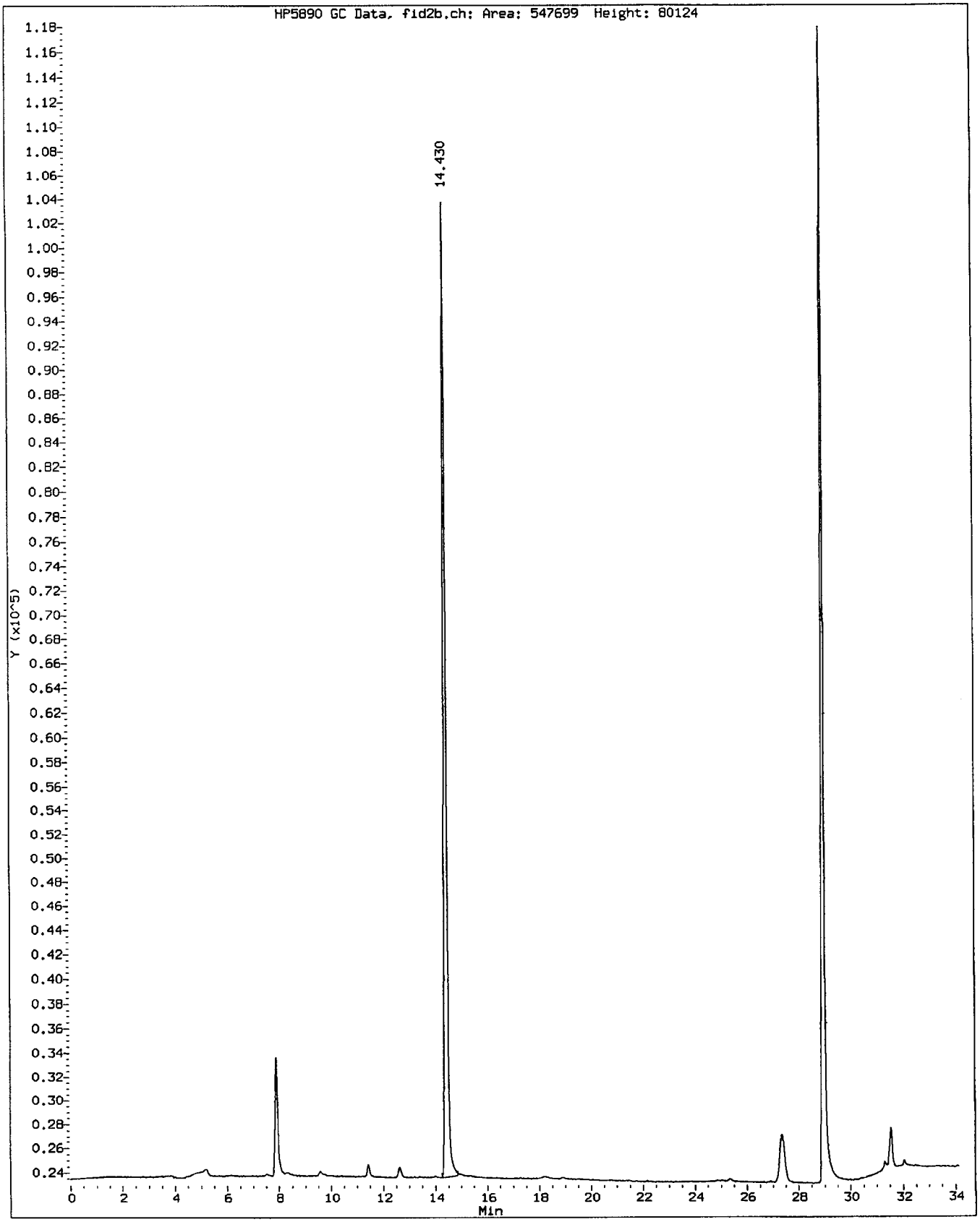
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\Reinhard\EE\chem\vgc5.i\V5092702.b\BLK51.D



Data File: \\REINHARD\ee\chem\vgc5.i\V5092702.b\BLK51.D
Injection Date: 27-SEP-2002 10:22
Instrument: vgc5.i
Client Sample ID: 092702BLKA51

Compound: Fluorobenzene
CAS Number: 462-06-6



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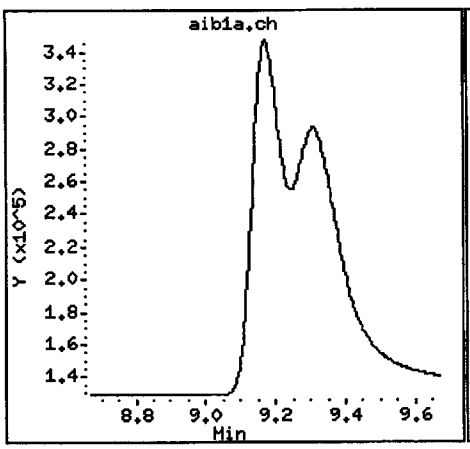
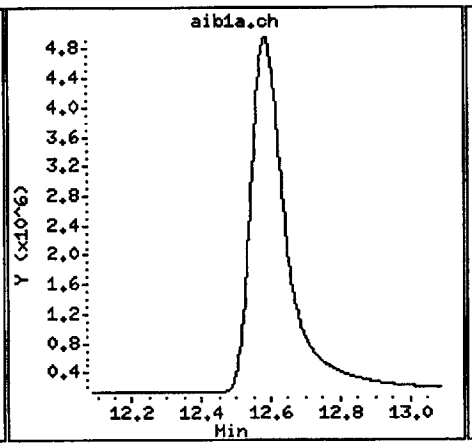
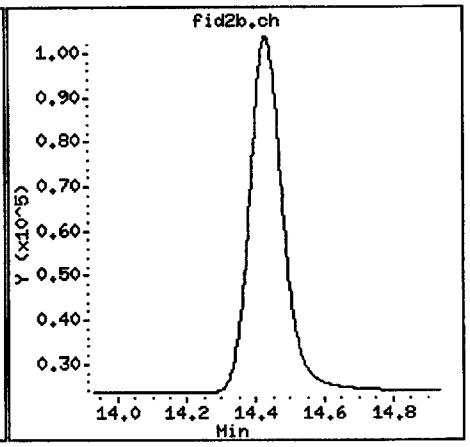
9 methylene chloride



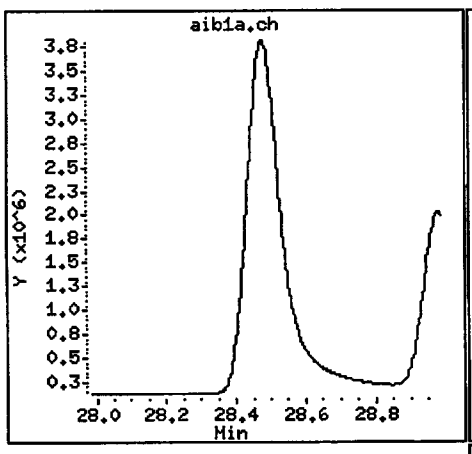
* 16 Bromochloromethane



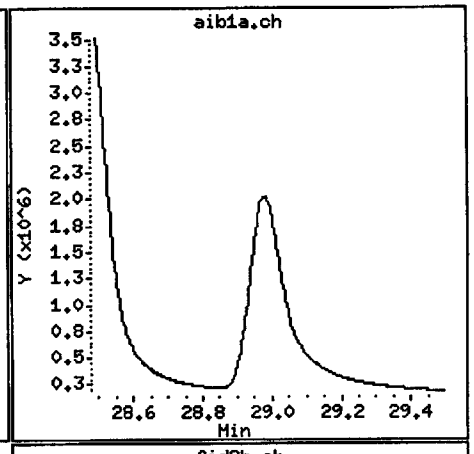
* 21 Fluorobenzene

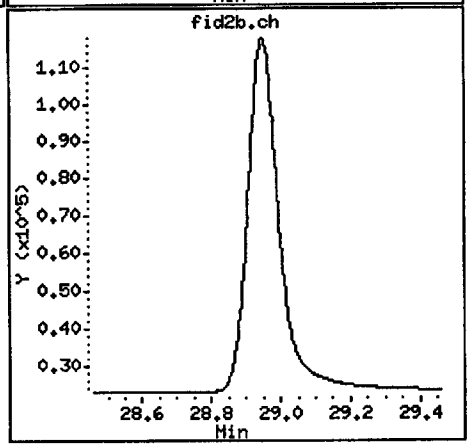


$ 37 1,4-dichlorobutane



$ 39 4-bromofluorobenzene





Data File: \\REINHARD\ee\chem\vgc5.i\V5092702.b\BLK51MS.D
Report Date: 04-Oct-2002 12:27

PEL Laboratories, Inc.

Data file : \\REINHARD\ee\chem\vgc5.i\V5092702.b\BLK51MS.D
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Inj Date : 27-SEP-2002 11:40
Operator : EB Inst ID: vgc5.i
Smp Info : 092702BLKA51MS
Misc Info :
Comment :
Method : \\Reinhard\ee\chem\vgc5.i\V5092702.b\8021.m
Meth Date : 04-Oct-2002 12:26 mjacobs Quant Type: ISTD
Cal Date : 07-SEP-2002 19:18 Cal File: 100PPB.D
Als bottle: 5 QC Sample: MS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8021rl.sub
Target Version: 4.04
Processing Host: REINHARD

Concentration Formula: Amt * DF * Vf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	Final Volume
Vo	5.000	Sample Volume

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	1 dichlorodifluoromethane	AIB1A	4.610	4.590	(0.366)	5943782	7.01707	7.0
	2 chloromethane	AIB1A	5.140	5.120	(0.408)	1822721	4.79936	4.8
	3 vinyl chloride	AIB1A	5.423	5.410	(0.431)	6933753	8.53101	8.5
	4 bromomethane	AIB1A	6.390	6.363	(0.507)	4685602	8.96712	9.0
	5 chloroethane	AIB1A	6.580	6.550	(0.522)	12852712	9.43211	9.4
	6 trichlorofluoromethane	AIB1A	7.066	7.036	(0.561)	14741305	10.4790	10.5
	8 1,1-dichloroethene	AIB1A	8.326	8.290	(0.661)	23176624	11.0534	11.0
	9 methylene chloride	AIB1A	9.173	9.146	(0.728)	27488592	11.2509	11.2(M)
	10 MTBE	FID2B	9.446	9.420	(0.654)	115409	11.4591	11.4
	11 trans 1,2-dichloroethene	AIB1A	9.786	9.760	(0.777)	21892043	11.2085	11.2
	13 1,1-dichloroethane	AIB1A	10.643	10.613	(0.845)	22159604	11.3847	11.4
	14 cis-1,2-dichloroethene	AIB1A	11.903	11.873	(0.945)	20431894	11.2842	11.3
M	12 1,2-Dichloroethene (tot)	AIB1A				42323937	22.4926	22.5
	15 chloroform	AIB1A	12.230	12.196	(0.971)	23715390	10.2968	10.3
*	16 Bromochloromethane	AIB1A	12.596	12.563	(1.000)	39913876	30.0000	
	17 1,1,1-trichloroethane	AIB1A	13.103	13.073	(1.040)	23142656	11.0465	11.0

Data File: \\REINHARD\ee\chem\vgc5.i\V5092702.b\BLK51MS.D
Report Date: 04-Oct-2002 12:27

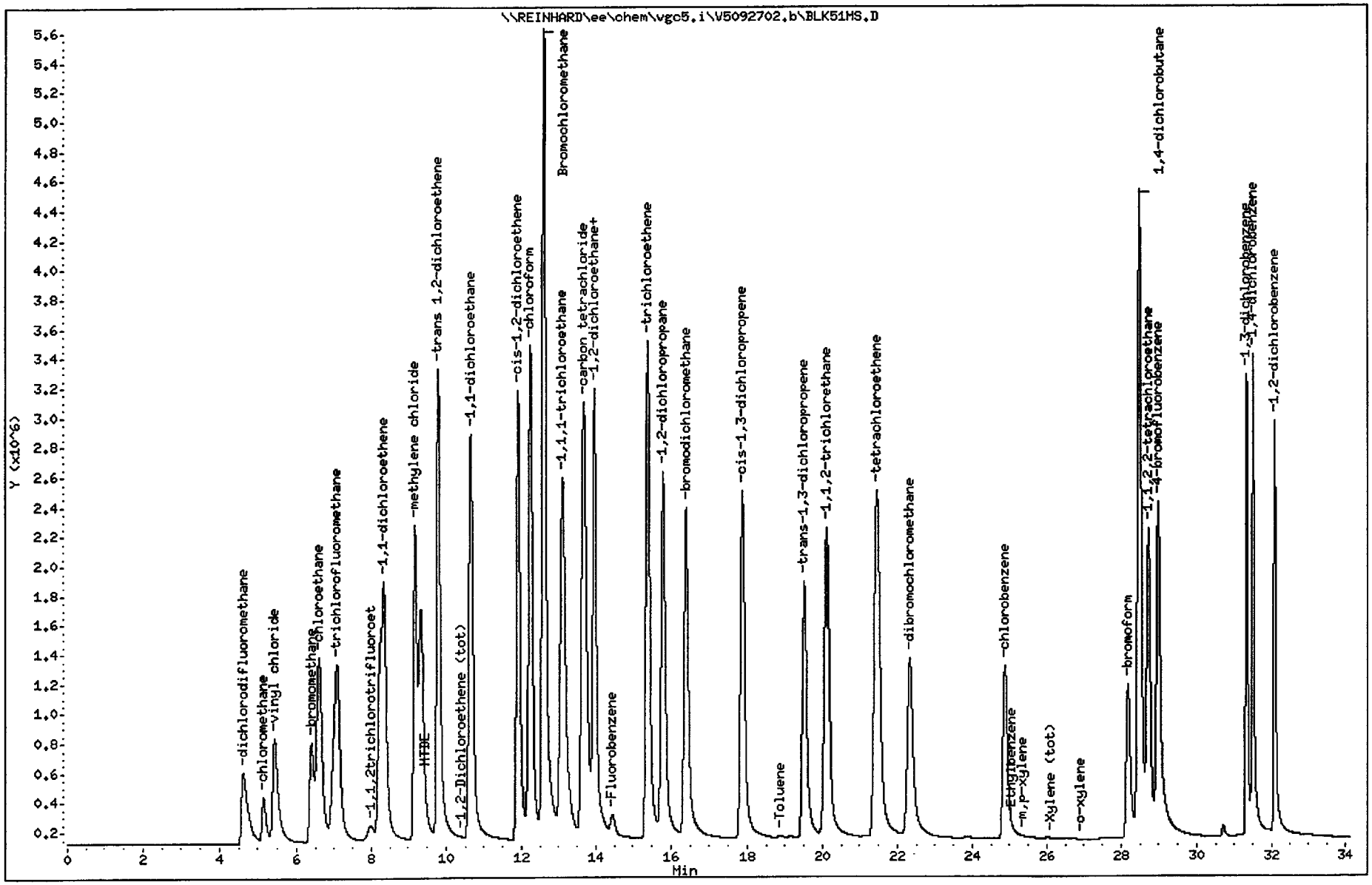
	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	18 carbon tetrachloride	AIB1A	13.680	13.646	(1.086)	26554827	11.2705	11.3
	19 1,2-dichloroethane	AIB1A	13.960	13.930	(1.108)	21134250	11.1519	11.2
	20 Benzene	FID2B	14.010	13.980	(0.970)	297795	10.3576	10.4
*	21 Fluorobenzene	FID2B	14.440	14.410	(1.000)	596333	30.0000	
	22 trichloroethene	AIB1A	15.383	15.356	(1.221)	23943896	11.0537	11.0(Q)
	23 1,2-dichloropropane	AIB1A	15.790	15.763	(1.254)	18819017	11.0320	11.0
	24 bromodichloromethane	AIB1A	16.390	16.360	(1.301)	17936474	10.9805	11.0
	25 cis-1,3-dichloropropene	AIB1A	17.866	17.833	(1.418)	19280434	11.8383	11.8
	26 Toluene	FID2B	18.923	18.890	(1.310)	285640	11.2687	11.3
	27 trans-1,3-dichloropropene	AIB1A	19.503	19.470	(1.548)	15078233	10.6750	10.7
	28 1,1,2-trichlorethane	AIB1A	20.113	20.073	(1.597)	20093855	11.4459	11.4
	29 tetrachloroethene	AIB1A	21.460	21.423	(1.704)	26572164	10.8918	10.9
	30 dibromochloromethane	AIB1A	22.326	22.290	(1.772)	13082137	11.1324	11.1
	31 chlorobenzene	AIB1A	24.876	24.853	(1.975)	10576182	11.7804	11.8
	32 Ethylbenzene	FID2B	25.053	25.026	(1.735)	259673	10.8997	10.9
	33 m,p-xylene	FID2B	25.346	25.323	(1.755)	597204	23.1635	23.2
	35 o-xylene	FID2B	26.920	26.903	(1.864)	239501	11.0889	11.1
	36 bromoform	AIB1A	28.186	28.163	(2.238)	7809130	12.5015	12.5
M	34 Xylene (tot)	FID2B				836705	34.2524	34.2
$	37 1,4-dichlorobutane	AIB1A	28.483	28.466	(2.261)	30035490	26.1562	26.2
	38 1,1,2,2-tetrachloroethane	AIB1A	28.730	28.713	(2.281)	14158255	11.7513	11.8
$	39 4-bromofluorobenzene	FID2B	28.956	28.940	(2.005)	670157	27.9939	28.0
	40 1,3-dichlorobenzene	AIB1A	31.330	31.320	(2.487)	11785627	11.5115	11.5
	41 1,4-dichlorobenzene	AIB1A	31.496	31.486	(2.500)	14029314	10.6450	10.6
	42 1,2-dichlorobenzene	AIB1A	32.083	32.073	(2.547)	12201089	11.2195	11.2

QC Flag Legend

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

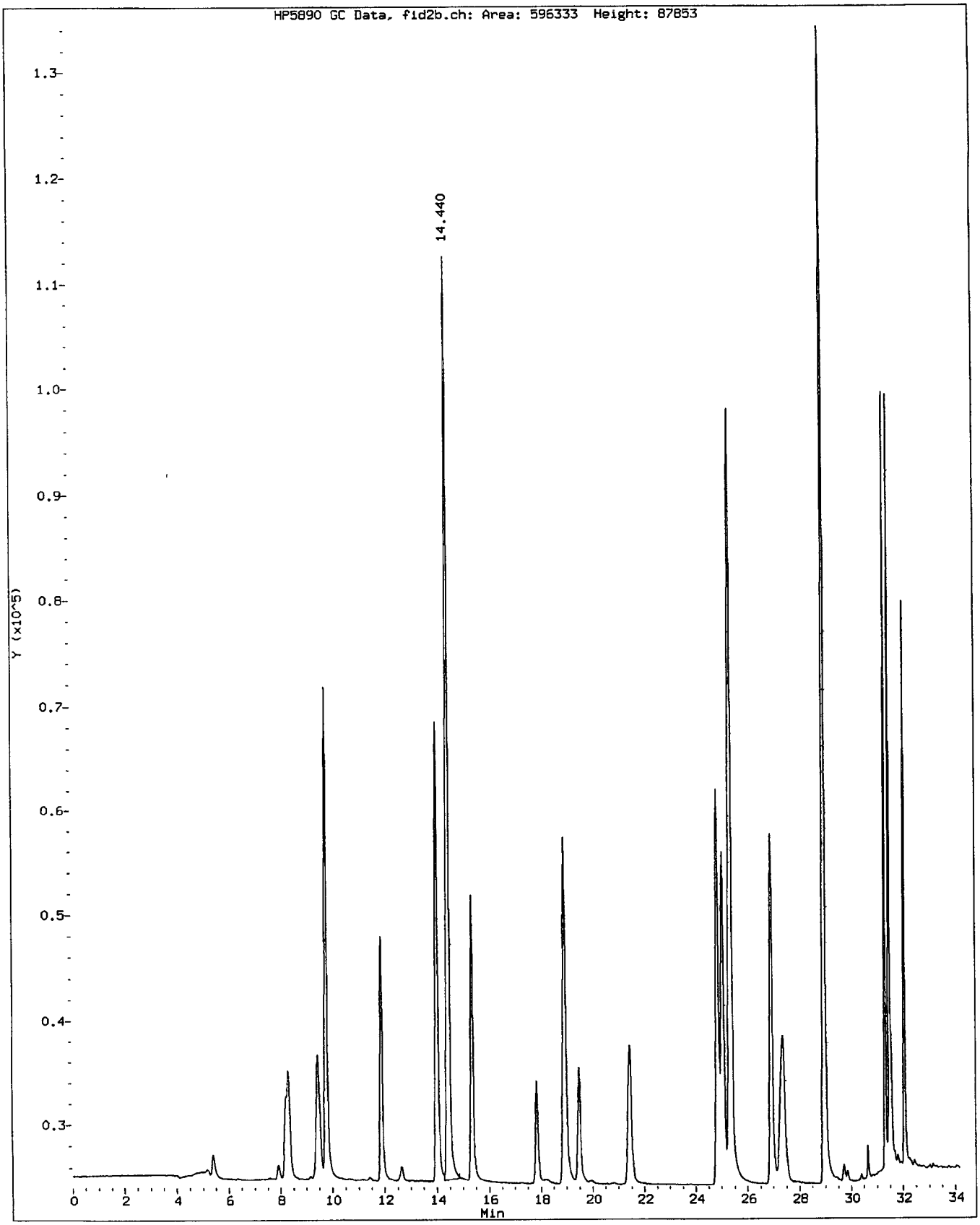
Data File: \\REINHARD\ee\chem\vgc5.i\W5092702.b\BLK51MS.D
Date : 27-SEP-2002 11:40
Client ID: 092702BLKA51MS
Sample Info: 092702BLKA51MS
Purge Volume: 5.0
Column phase: RTX 502.2

Instrument: vgc5.i
Operator: EB
Column diameter: 0.53



Data File: \\REINHARD\ee\chem\vgc5.i\V5092702.b\BLK51M5.D
Injection Date: 27-SEP-2002 11:40
Instrument: vgc5.i
Client Sample ID: 092702BLKA51M5

Compound: Fluorobenzene
CAS Number: 462-06-6



Data File: \\REINHARD\ee\chem\vgc5.i\V5092702.b\BLK51SD.D
Report Date: 04-Oct-2002 12:27

PEL Laboratories, Inc.

Data file : \\REINHARD\ee\chem\vgc5.i\V5092702.b\BLK51SD.D
Lab Smp Id: 092702BLKA51MSD Client Smp ID: 092702BLKA51MSD
Inj Date : 27-SEP-2002 12:24
Operator : EB Inst ID: vgc5.i
Smp Info : 092702BLKA51MSD
Misc Info :
Comment :
Method : \\Reinhard\ee\chem\vgc5.i\V5092702.b\8021.m
Meth Date : 04-Oct-2002 12:26 mjacobs Quant Type: ISTD
Cal Date : 07-SEP-2002 19:18 Cal File: 100PPB.D
Als bottle: 6 QC Sample: MSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8021rl.sub
Target Version: 4.04
Processing Host: REINHARD

Concentration Formula: Amt * DF * Vf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	Final Volume
Vo	5.000	Sample Volume

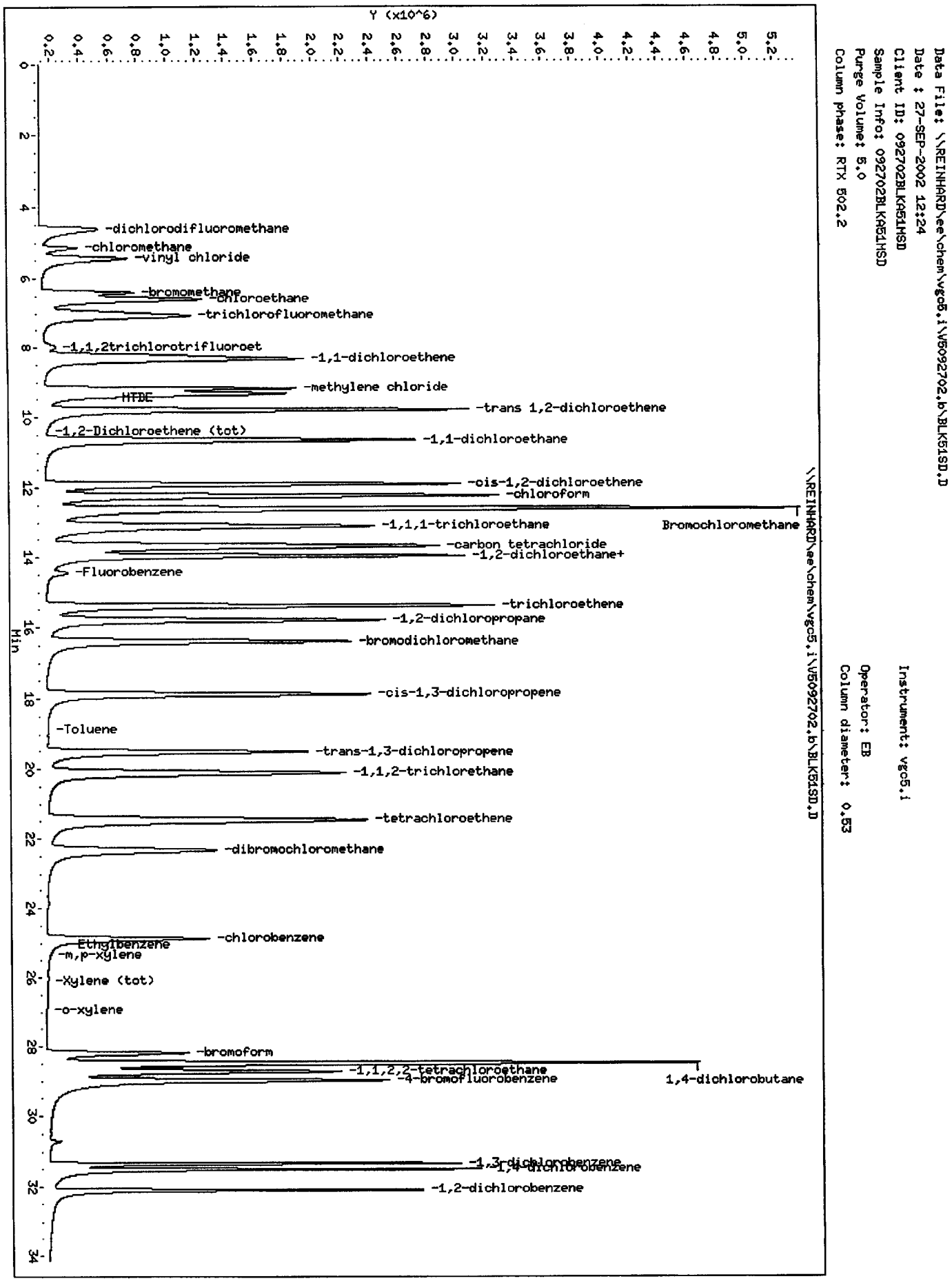
Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
1 dichlorodifluoromethane	AIB1A	4.616	4.590	(0.367)	5315244	6.54997	6.5
2 chloromethane	AIB1A	5.136	5.120	(0.408)	1492397	4.10176	4.1
3 vinyl chloride	AIB1A	5.426	5.410	(0.431)	6252175	8.02946	8.0
4 bromomethane	AIB1A	6.393	6.363	(0.508)	4533795	9.05675	9.0
5 chloroethane	AIB1A	6.583	6.550	(0.523)	11480557	8.79428	8.8
6 trichlorofluoromethane	AIB1A	7.063	7.036	(0.561)	12722135	9.43987	9.4
8 1,1-dichloroethene	AIB1A	8.326	8.290	(0.661)	21107574	10.5076	10.5(Q)
9 methylene chloride	AIB1A	9.173	9.146	(0.729)	26332026	11.2497	11.2(M)
10 MTBE	FID2B	9.443	9.420	(0.654)	110667	11.7854	11.8
11 trans 1,2-dichloroethene	AIB1A	9.786	9.760	(0.777)	20320406	10.8596	10.8
13 1,1-dichloroethane	AIB1A	10.636	10.613	(0.845)	20861830	11.1875	11.2
14 cis-1,2-dichloroethene	AIB1A	11.900	11.873	(0.945)	19403568	11.1858	11.2
M 12 1,2-Dichloroethene (tot)	AIB1A				39723974	22.0454	22.0
15 chloroform	AIB1A	12.226	12.196	(0.971)	22216791	10.0688	10.1
* 16 Bromochloromethane	AIB1A	12.590	12.563	(1.000)	38238507	30.0000	
17 1,1,1-trichloroethane	AIB1A	13.100	13.073	(1.041)	21511520	10.7178	10.7

Data File: \\REINHARD\ee\chem\vgc5.i\V5092702.b\BLK51SD.D
Report Date: 04-Oct-2002 12:27

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	18 carbon tetrachloride	AIB1A	13.676	13.646	(1.086)	24402127	10.8106	10.8
	19 1,2-dichloroethane	AIB1A	13.956	13.930	(1.109)	20089185	11.0649	11.1
	20 Benzene	FID2B	14.006	13.980	(0.970)	277930	10.3679	10.4
*	21 Fluorobenzene	FID2B	14.436	14.410	(1.000)	556001	30.0000	
	22 trichloroethene	AIB1A	15.380	15.356	(1.222)	22210183	10.7025	10.7(Q)
	23 1,2-dichloropropane	AIB1A	15.790	15.763	(1.254)	17912339	10.9606	11.0
	24 bromodichloromethane	AIB1A	16.390	16.360	(1.302)	17017915	10.8746	10.9
	25 cis-1,3-dichloropropene	AIB1A	17.866	17.833	(1.419)	18457624	11.8296	11.8
	26 Toluene	FID2B	18.923	18.890	(1.311)	264532	11.1930	11.2
	27 trans-1,3-dichloropropene	AIB1A	19.510	19.470	(1.550)	15632968	11.5526	11.6
	28 1,1,2-trichlorethane	AIB1A	20.113	20.073	(1.598)	19613254	11.6616	11.7
	29 tetrachloroethene	AIB1A	21.466	21.423	(1.705)	24980830	10.6882	10.7
	30 dibromochloromethane	AIB1A	22.330	22.290	(1.774)	12460084	11.0676	11.1
	31 chlorobenzene	AIB1A	24.880	24.853	(1.976)	10148074	11.7988	11.8
	32 Ethylbenzene	FID2B	25.053	25.026	(1.735)	240690	10.8358	10.8
	33 m,p-xylene	FID2B	25.350	25.323	(1.756)	538489	22.4012	22.4
	35 o-xylene	FID2B	26.930	26.903	(1.865)	214792	10.6663	10.7
	36 bromoform	AIB1A	28.186	28.163	(2.239)	7328711	12.2464	12.2
M	34 Xylene (tot)	FID2B				753281	33.0675	33.1
$	37 1,4-dichlorobutane	AIB1A	28.486	28.466	(2.263)	31143663	28.3096	28.3
	38 1,1,2,2-tetrachloroethane	AIB1A	28.733	28.713	(2.282)	13927985	12.0667	12.1
$	39 4-bromofluorobenzene	FID2B	28.960	28.940	(2.006)	693621	31.0758	31.1
	40 1,3-dichlorobenzene	AIB1A	31.333	31.320	(2.489)	11052489	11.2684	11.3
	41 1,4-dichlorobenzene	AIB1A	31.500	31.486	(2.502)	13954576	11.0522	11.0
	42 1,2-dichlorobenzene	AIB1A	32.086	32.073	(2.549)	11813676	11.3392	11.3

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.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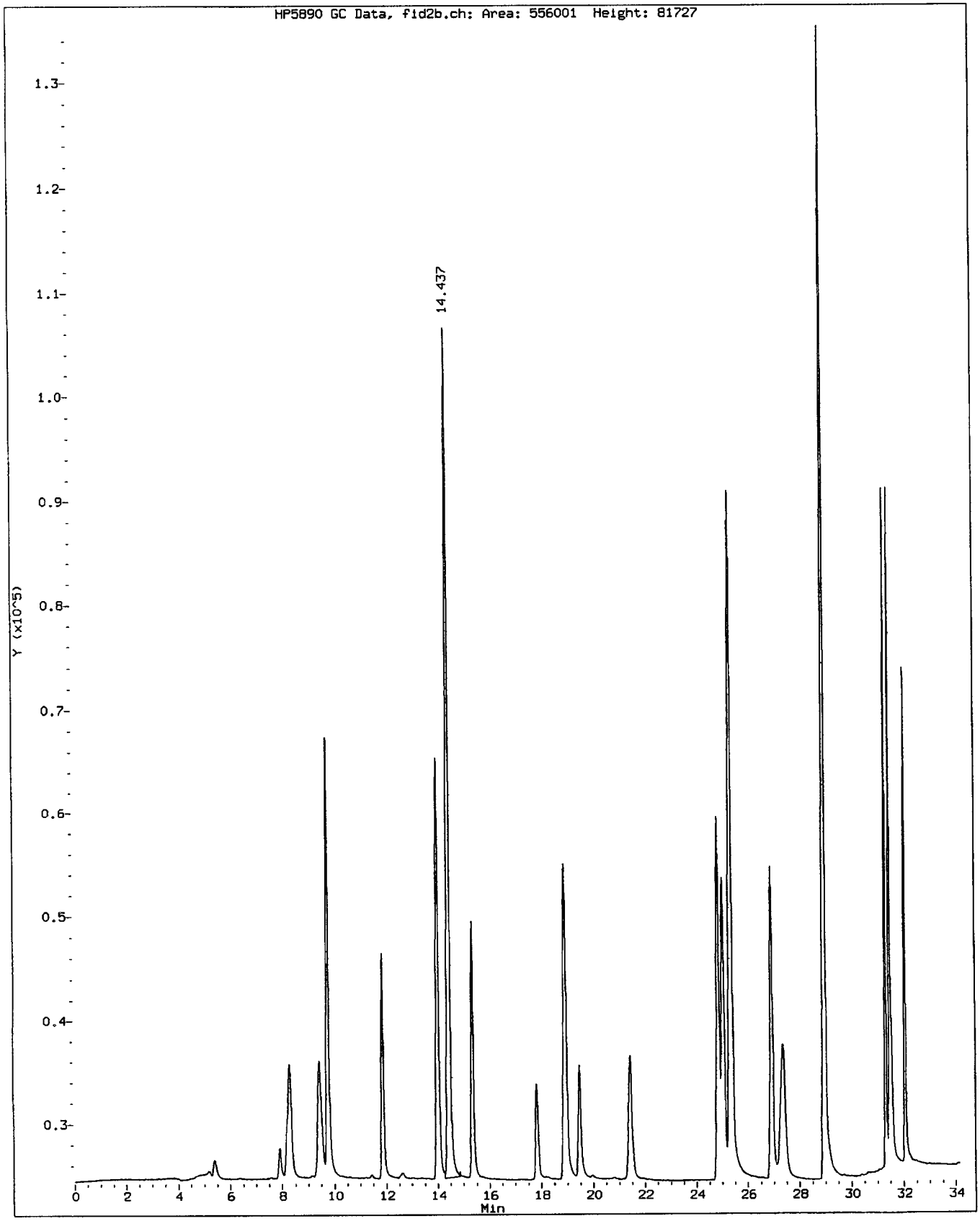
Sample Info: 092702BLKA51MSD
Purge Volume: 5.0
Column phase: RTX 502.2
Instrument: vgc5.i
Operator: EB
Column diameter: 0.53
Y (x10^6)
Min
-dichlorodifluoromethane
-chloromethane
-vinyl chloride
-bromomethane
-chloroethane
-trichlorofluoromethane
2 -1,1,2trichlorotrifluoroet
-1,1-dichloroethene
-methylene chloride
MTBE
-trans 1,2-dichloroethene
-1,2-Dichloroethene (tot)
-1,1-dichloroethane
-cis-1,2-dichloroethene
-chloroform
Bromochloromethane
-1,1,1-trichloroethane
-carbon tetrachloride
-1,2-dichloroethane+
-Fluorobenzene
-trichloroethene
-1,2-dichloropropane
-bromodichloromethane
-cis-1,3-dichloropropene
-Toluene
-trans-1,3-dichloropropene
-1,1,2-trichlorethane
-tetrachloroethene
-dibromochloromethane
-chlorobenzene
Ethylbenzene
-m,p-xylene
-Xylene (tot)
-o-xylene
-bromoform
-1,1,2,2-tetrachloroethane
-4-bromofluorobenzene
1,4-dichlorobutane
-1,3-dichlorobenzene
-1,4-dichlorobenzene
-1,2-dichlorobenzene
\\REINHARD\ee\chem\vgc5.i\V5092702.b\BLK51SD.D

Data File: \\REINHARD\ee\chem\vgc5.i\V5092702.b\BLK51SD.D
Injection Date: 27-SEP-2002 12:24
Instrument: vgc5.i
Client Sample ID: 092702BLKA51MSD

Compound: Fluorobenzene
CAS Number: 462-06-6



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Report Date: 04-Oct-2002 12:27

PEL Laboratories, Inc.

Data file : \\REINHARD\ee\chem\vgc5.i\V5092702.b\178-1.D
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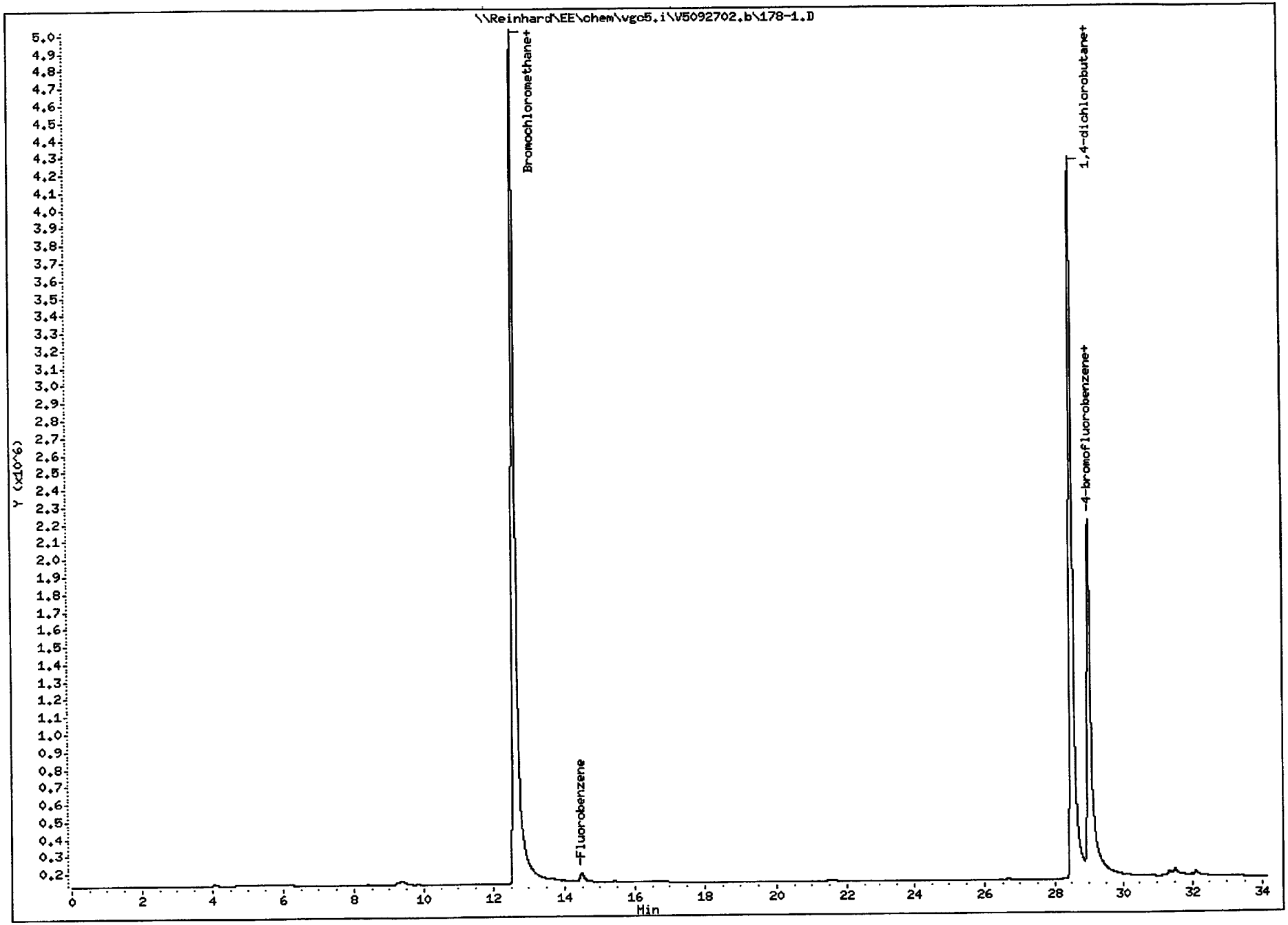
Inj Date : 27-SEP-2002 13:09
Operator : EB Inst ID: vgc5.i
Smp Info : 220917801
Misc Info :
Comment :
Method : \\Reinhard\ee\chem\vgc5.i\V5092702.b\8021.m
Meth Date : 04-Oct-2002 12:26 mjacobs Quant Type: ISTD
Cal Date : 07-SEP-2002 19:18 Cal File: 100PPB.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: mbtexrl.sub
Target Version: 4.04
Processing Host: REINHARD

Concentration Formula: Amt * DF * Vf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	Final Volume
Vo	5.000	Sample Volume

Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 21 Fluorobenzene	FID2B	14.456	14.410	(1.000)	520952	30.0000	
$ 39 4-bromofluorobenzene	FID2B	28.983	28.940	(2.005)	608475	29.0951	29.1

Data File: \\Reinhard\EE\chem\vgc5.i\V5092702.b\178-1.D



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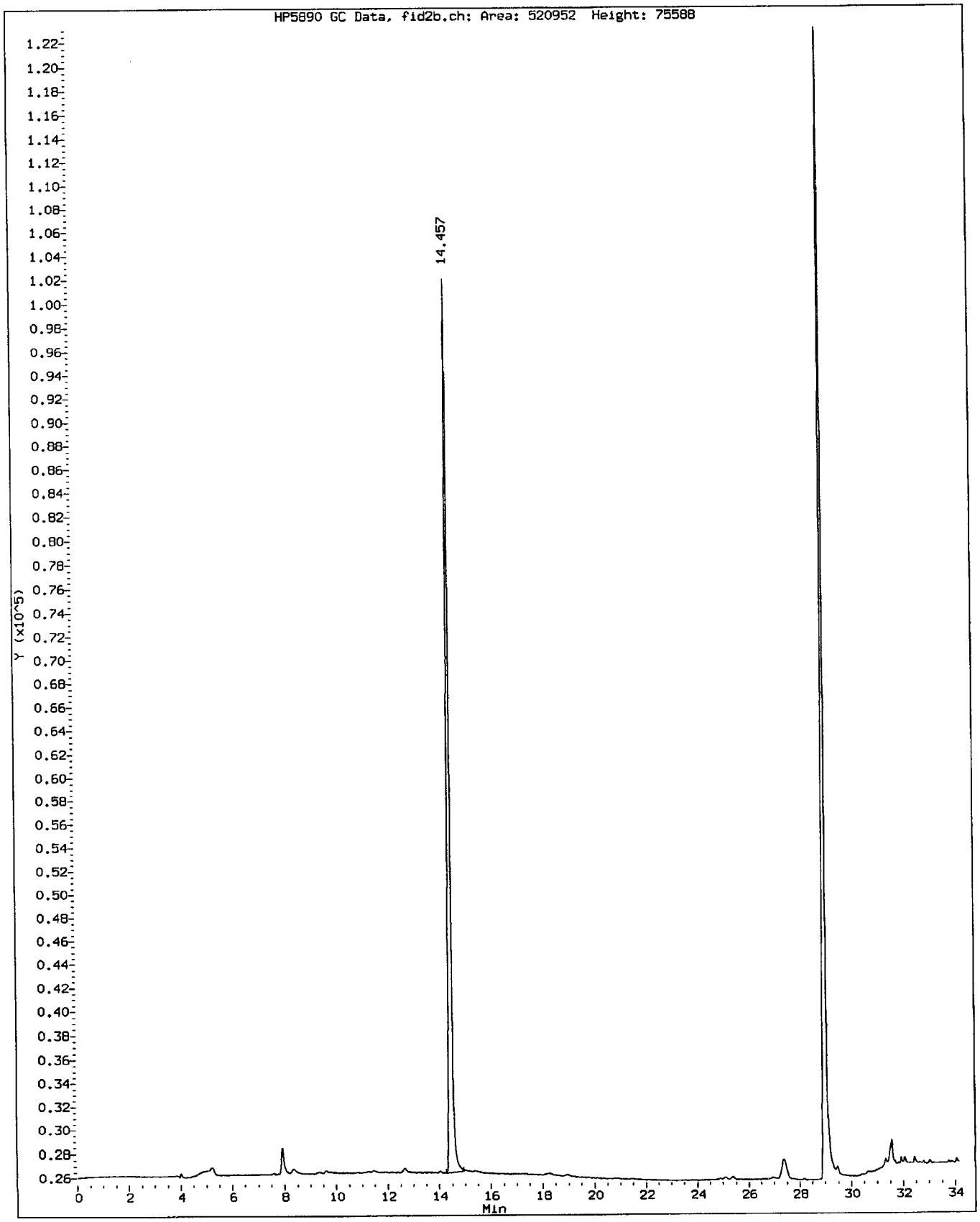
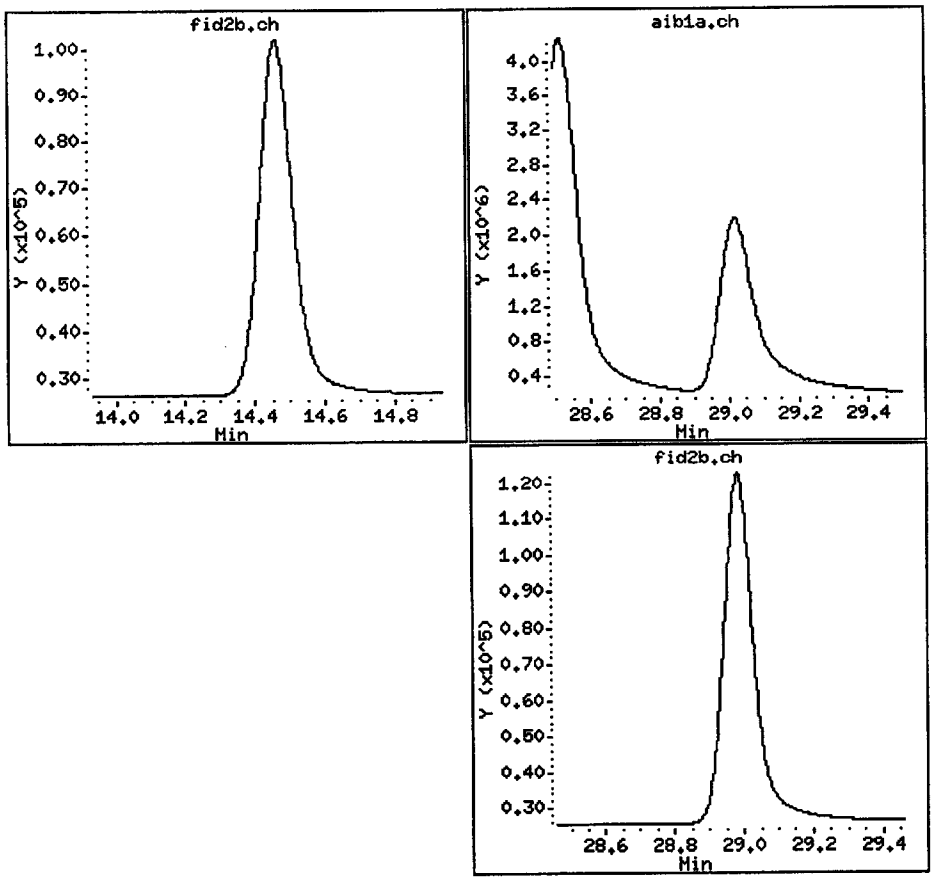
Injection Date: 27-SEP-2002 13:09
Instrument: vgc5.i
Client Sample ID: 062MW4Q302

Compound: Fluorobenzene
CAS Number: 462-06-6



* 21 Fluorobenzene

$ 39 4-bromofluorobenzene



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Report Date: 04-Oct-2002 12:27

PEL Laboratories, Inc.

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Inj Date : 27-SEP-2002 13:53
Operator : EB Inst ID: vgc5.i
Smp Info : 220917802
Misc Info :
Comment :
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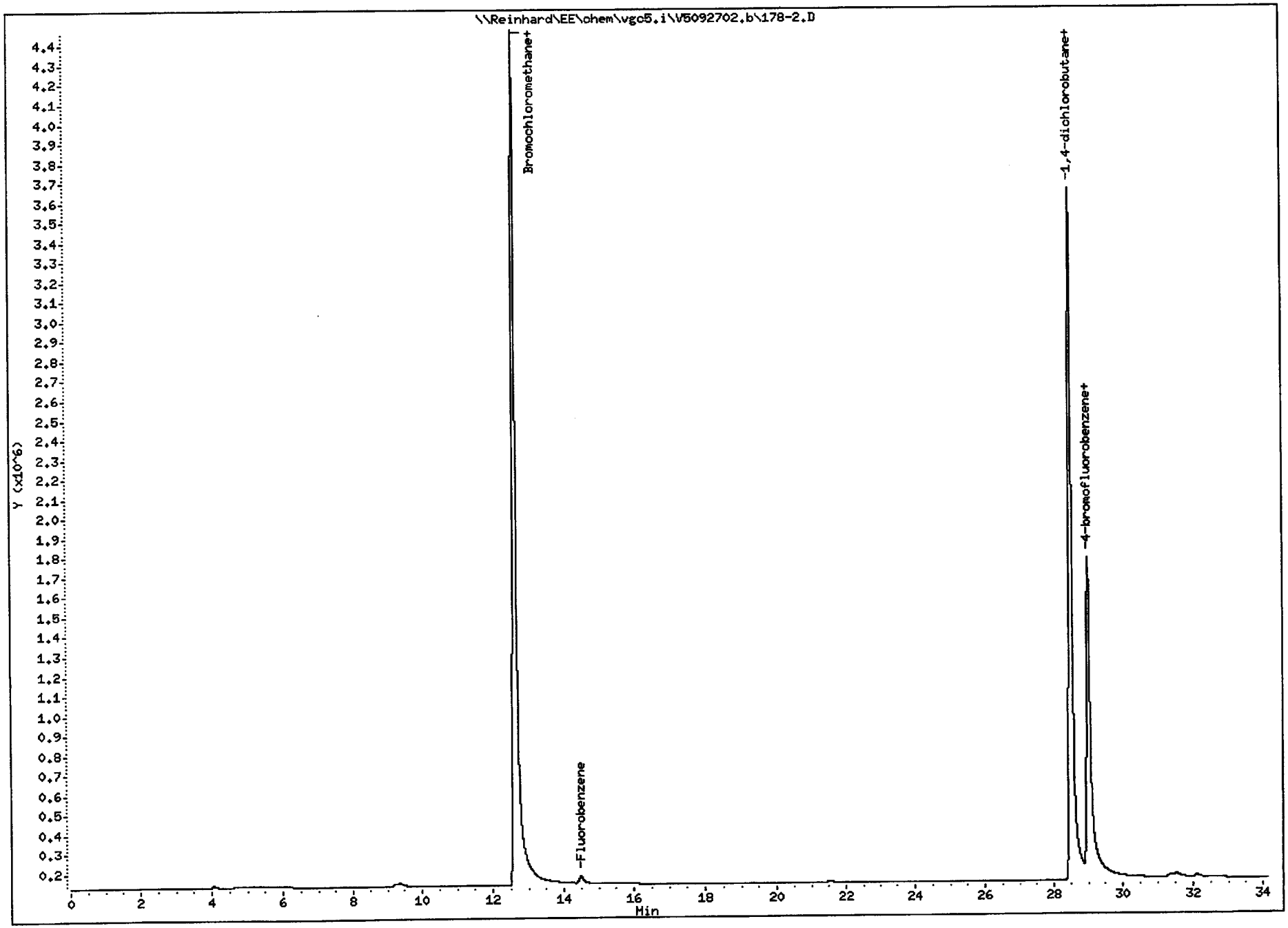
Meth Date : 04-Oct-2002 12:26 mjacobs Quant Type: ISTD
Cal Date : 07-SEP-2002 19:18 Cal File: 100PPB.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: mbtexrl.sub
Target Version: 4.04
Processing Host: REINHARD

Concentration Formula: Amt * DF * Vf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	Final Volume
Vo	5.000	Sample Volume

Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 21 Fluorobenzene	FID2B	14.463	14.410	(1.000)	440162	30.0000	
$ 39 4-bromofluorobenzene	FID2B	28.986	28.940	(2.004)	474457	26.8510	26.8

Data File: \\Reinhard\EE\chem\vgc5.i\V5092702.b\178-2.D



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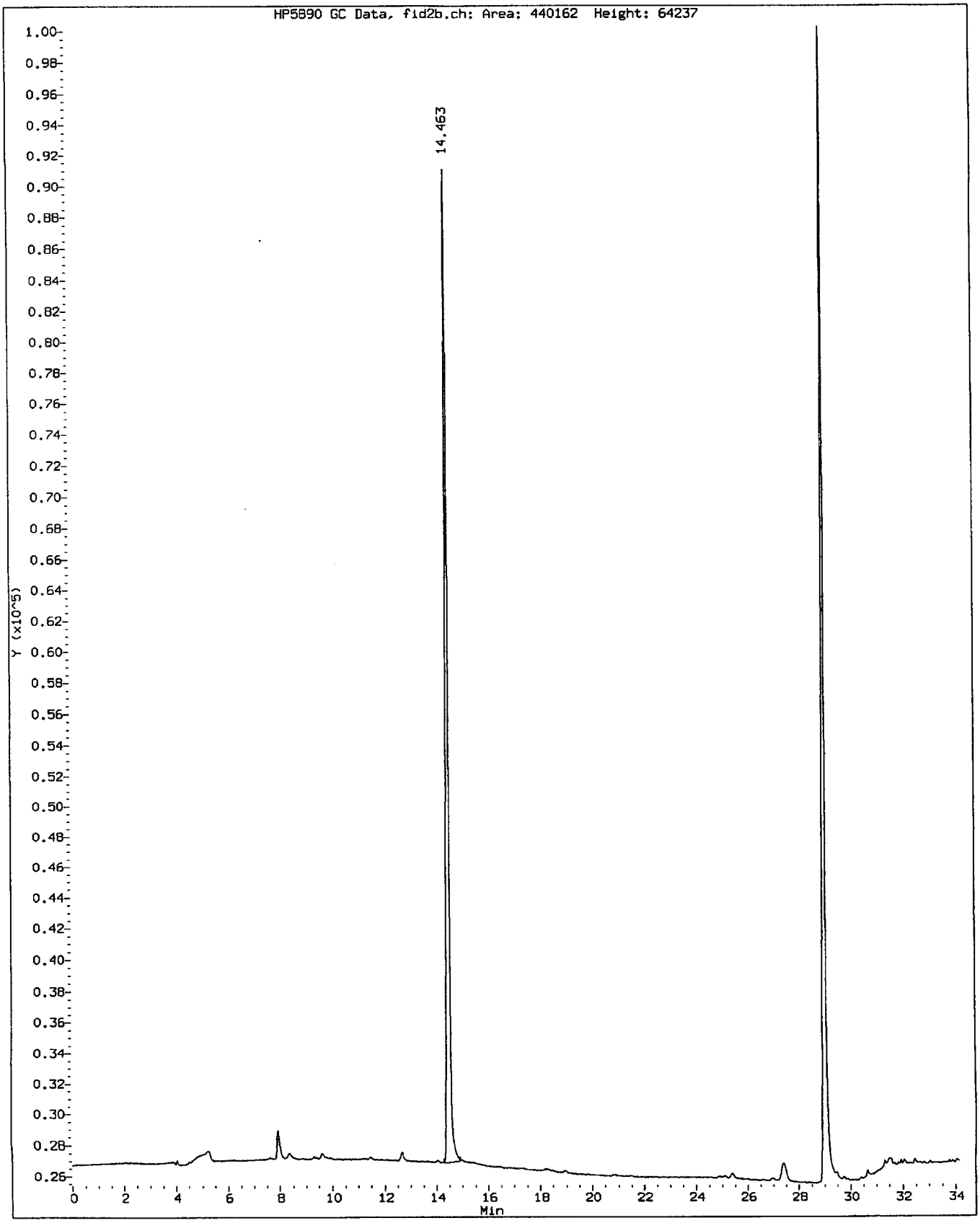
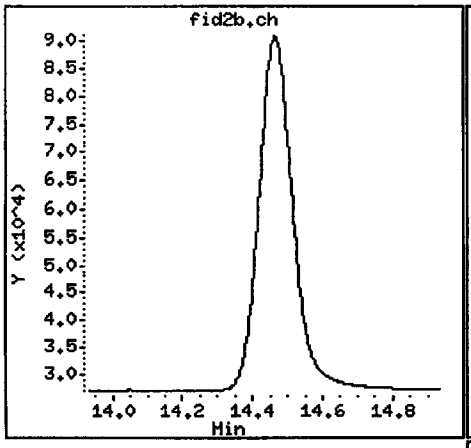
Instrument: vgc5.1
Client Sample ID: 062MW9Q302

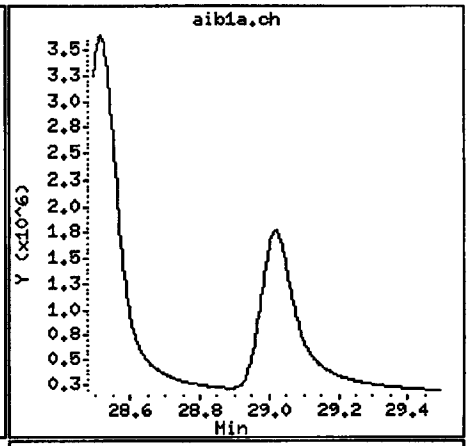
Compound: Fluorobenzene
CAS Number: 462-06-6

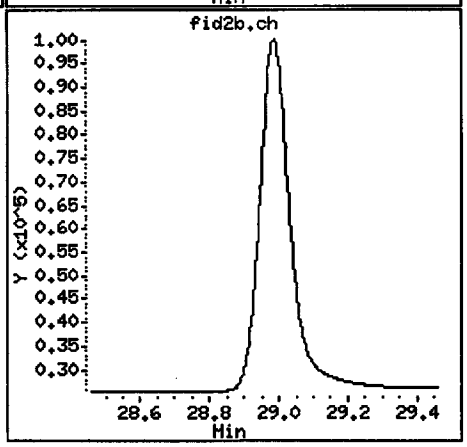


* 21 Fluorobenzene



$ 39 4-bromofluorobenzene





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Report Date: 04-Oct-2002 12:28

PEL Laboratories, Inc.

Data file : \\REINHARD\ee\chem\vgc5.i\V5092702.b\178-3.D
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Inj Date : 27-SEP-2002 14:38
Operator : EB Inst ID: vgc5.i
Smp Info : 220917803
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Comment :
Method : \\Reinhard\ee\chem\vgc5.i\V5092702.b\8021.m
Meth Date : 04-Oct-2002 12:26 mjacobs Quant Type: ISTD
Cal Date : 07-SEP-2002 19:18 Cal File: 100PPB.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: mbtexrl.sub
Target Version: 4.04
Processing Host: REINHARD

Concentration Formula: Amt * DF * Vf/Vo

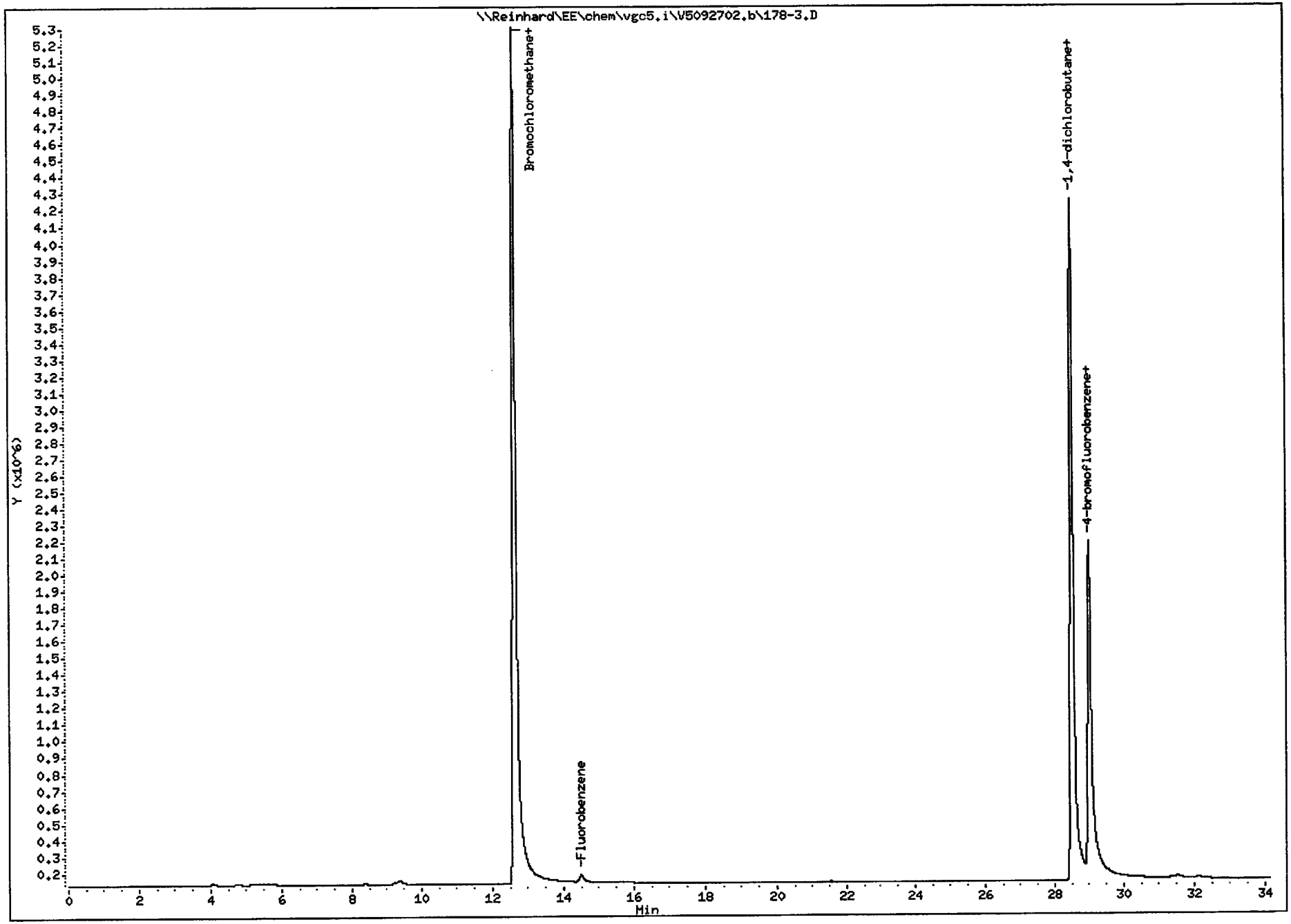
Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	Final Volume
Vo	5.000	Sample Volume

Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 21 Fluorobenzene	FID2B	14.463	14.410	(1.000)	536266	30.0000	
32 Ethylbenzene	FID2B	24.993	25.026	(1.728)	8635	0.40305	0.40(aMH)
35 o-xylene	FID2B	26.956	26.903	(1.864)	3356	0.17279	0.17(a)
M 34 Xylene (tot)	FID2B				3356	0.17279	0.17(a)
$ 39 4-bromofluorobenzene	FID2B	28.983	28.940	(2.004)	610065	28.3381	28.3

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\Reinhard\EE\chem\vgc5.i\V5092702.b\178-3.D



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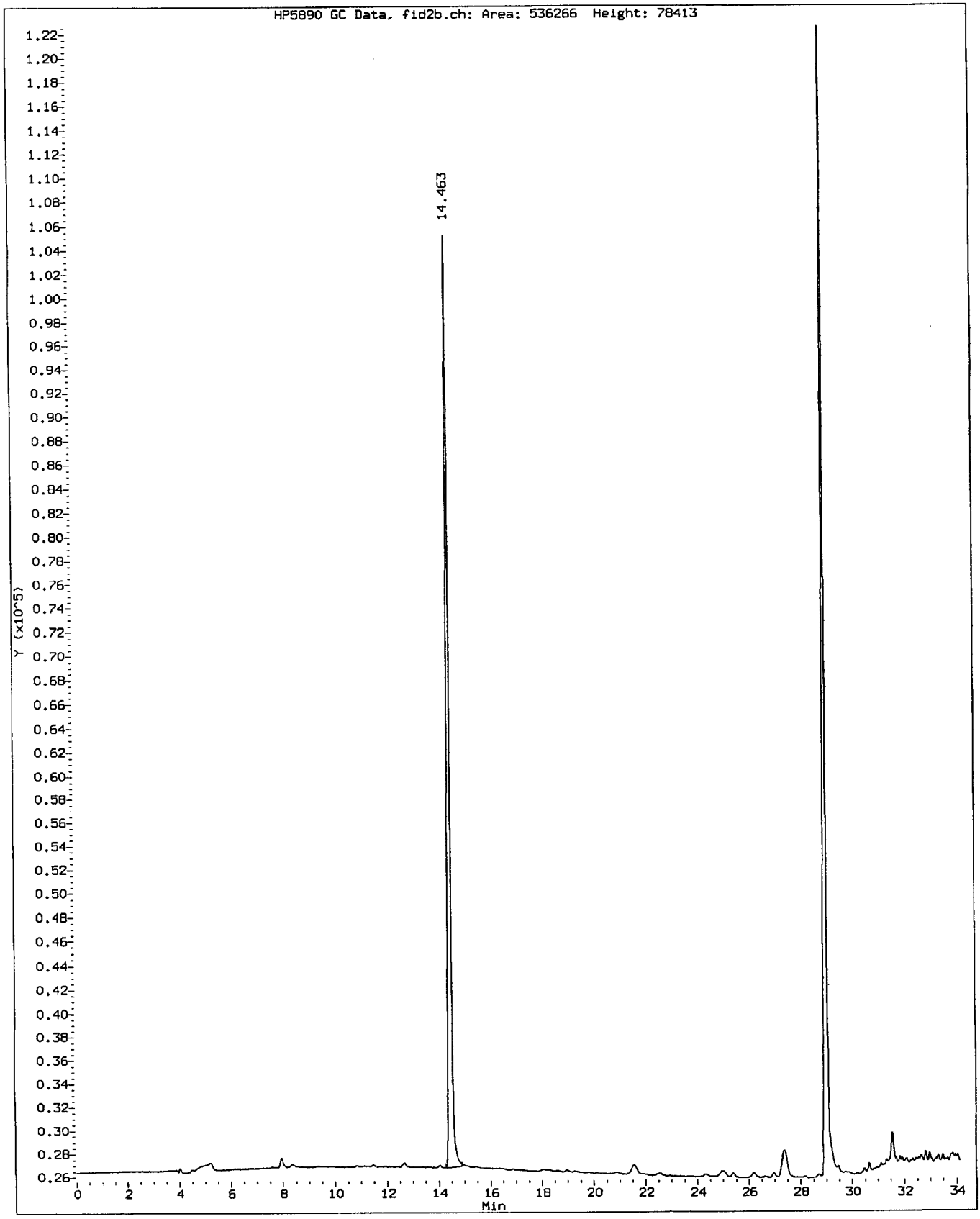
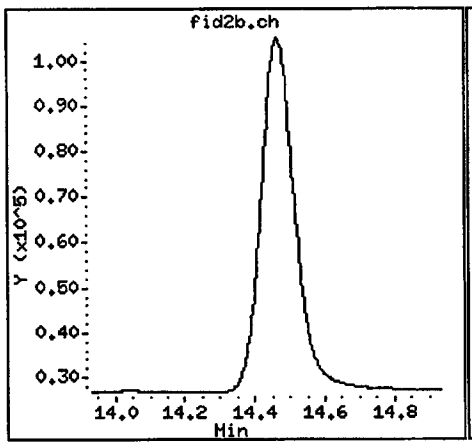
Injection Date: 27-SEP-2002 14:38
Instrument: vgc5.i
Client Sample ID: 062MW13Q302

Compound: Fluorobenzene
CAS Number: 462-06-6

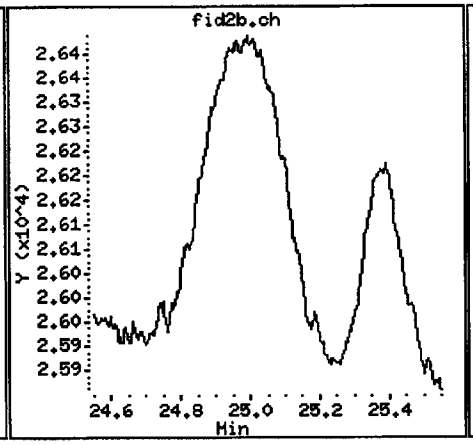


Data File: \\Reinhard\EE\chem\vgc5.i\V5092702.b\178-3.D

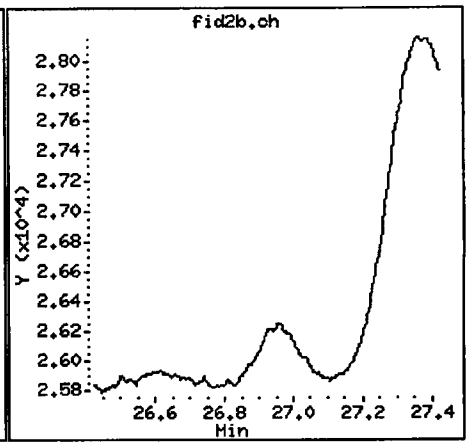
× 21 Fluorobenzene



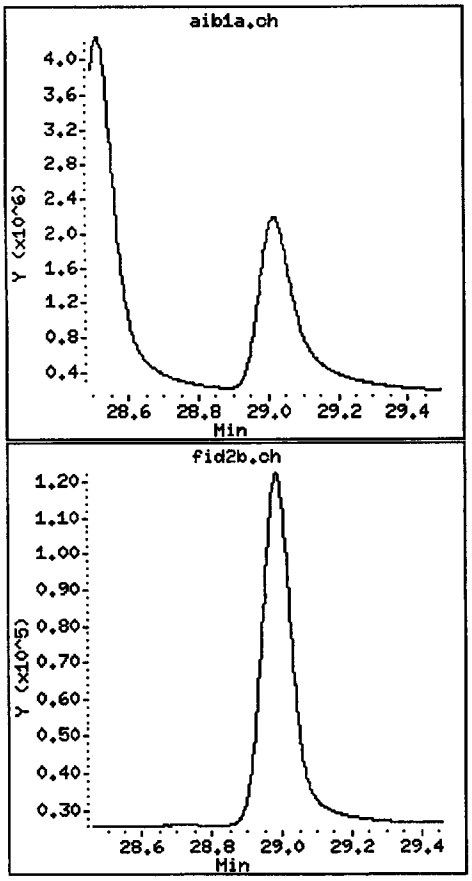
32 Ethylbenzene



35 o-xylene



$ 39 4-bromofluorobenzene



Data File: \\REINHARD\ee\chem\vgc5.i\V5092702.b\178-17.D
Report Date: 04-Oct-2002 12:28

PEL Laboratories, Inc.

Data file : \\REINHARD\ee\chem\vgc5.i\V5092702.b\178-17.D
Lab Smp Id: 220917817 Client Smp ID: 062TBQ302
Inj Date : 27-SEP-2002 16:07
Operator : EB Inst ID: vgc5.i
Smp Info : 220917817
Misc Info :
Comment :
Method : \\Reinhard\ee\chem\vgc5.i\V5092702.b\8021.m
Meth Date : 04-Oct-2002 12:26 mjacobs Quant Type: ISTD
Cal Date : 07-SEP-2002 19:18 Cal File: 100PPB.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: mbtexrl.sub
Target Version: 4.04
Processing Host: REINHARD

Concentration Formula: Amt * DF * Vf/Vo

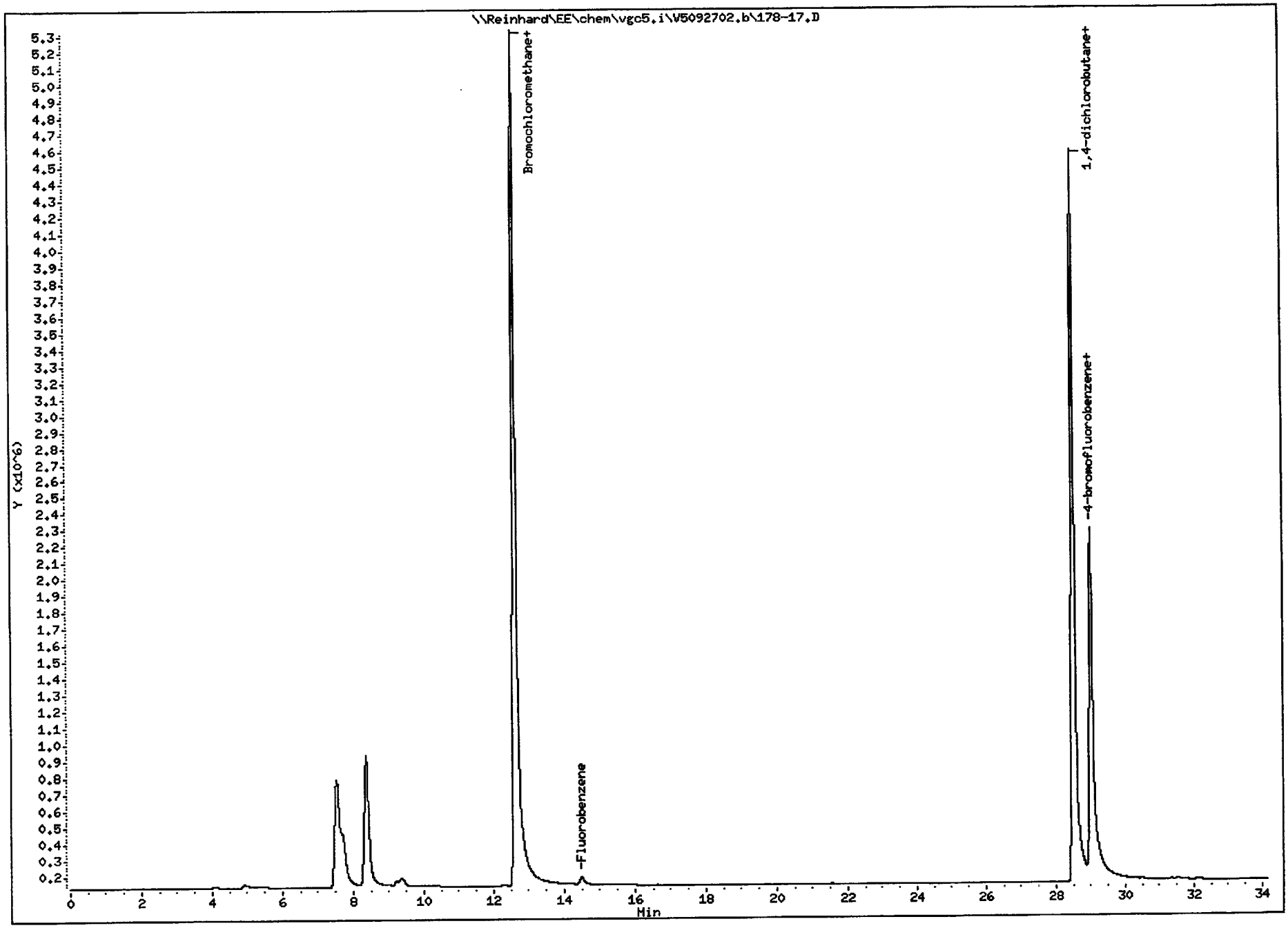
Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	Final Volume
Vo	5.000	Sample Volume

Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 21 Fluorobenzene	FID2B	14.470	14.410	(1.000)	530106	30.0000	
26 Toluene	FID2B	18.970	18.890	(1.311)	6903	0.30635	0.31(a)
$ 39 4-bromofluorobenzene	FID2B	28.986	28.940	(2.003)	635647	29.8696	29.9

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\Reinhard\EE\chem\vgc5.i\V5092702.b\178-17.D



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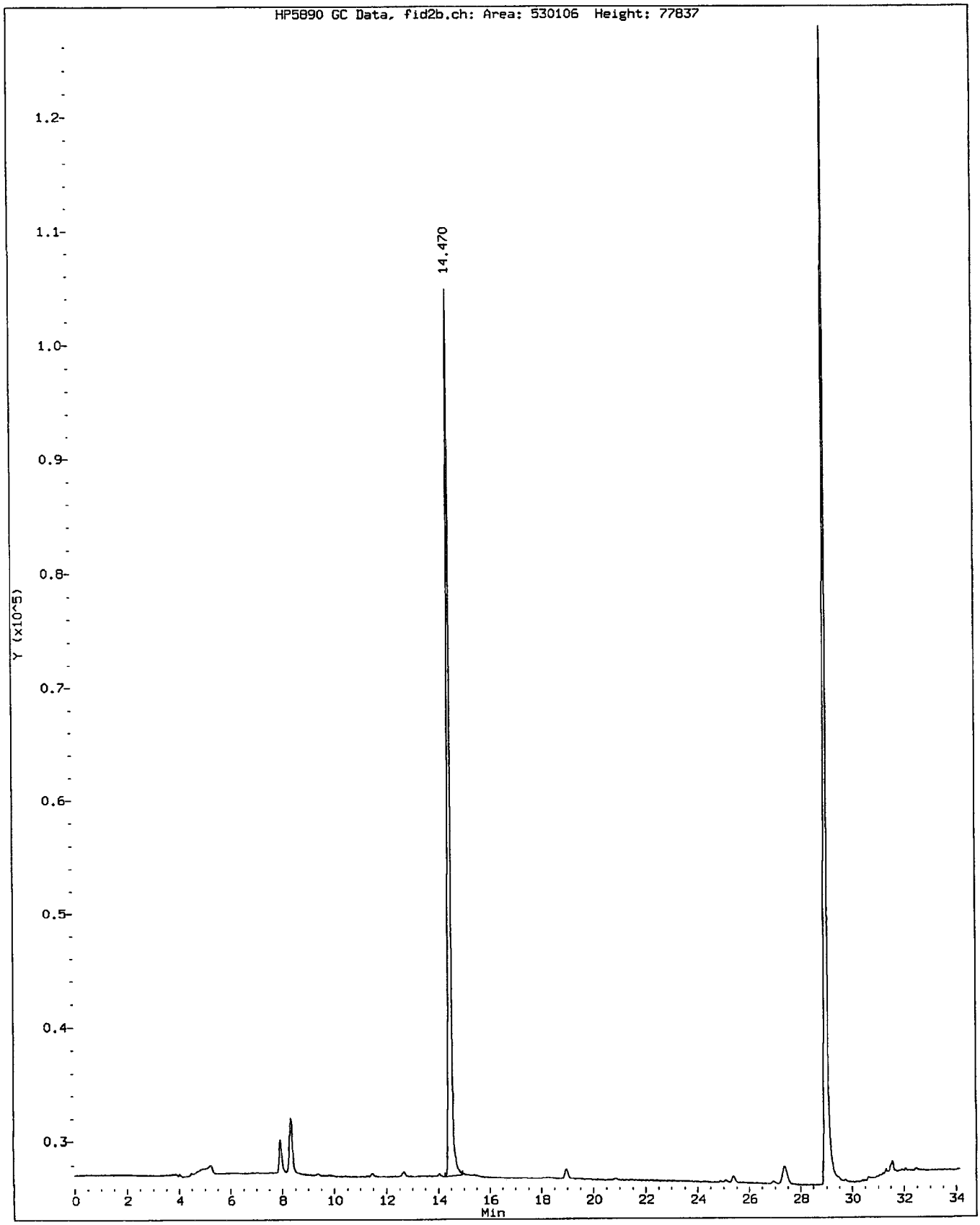
Injection Date: 27-SEP-2002 16:07
Instrument: vgc5.i
Client Sample ID: 062TBQ302

Compound: Fluorobenzene
CAS Number: 462-06-6

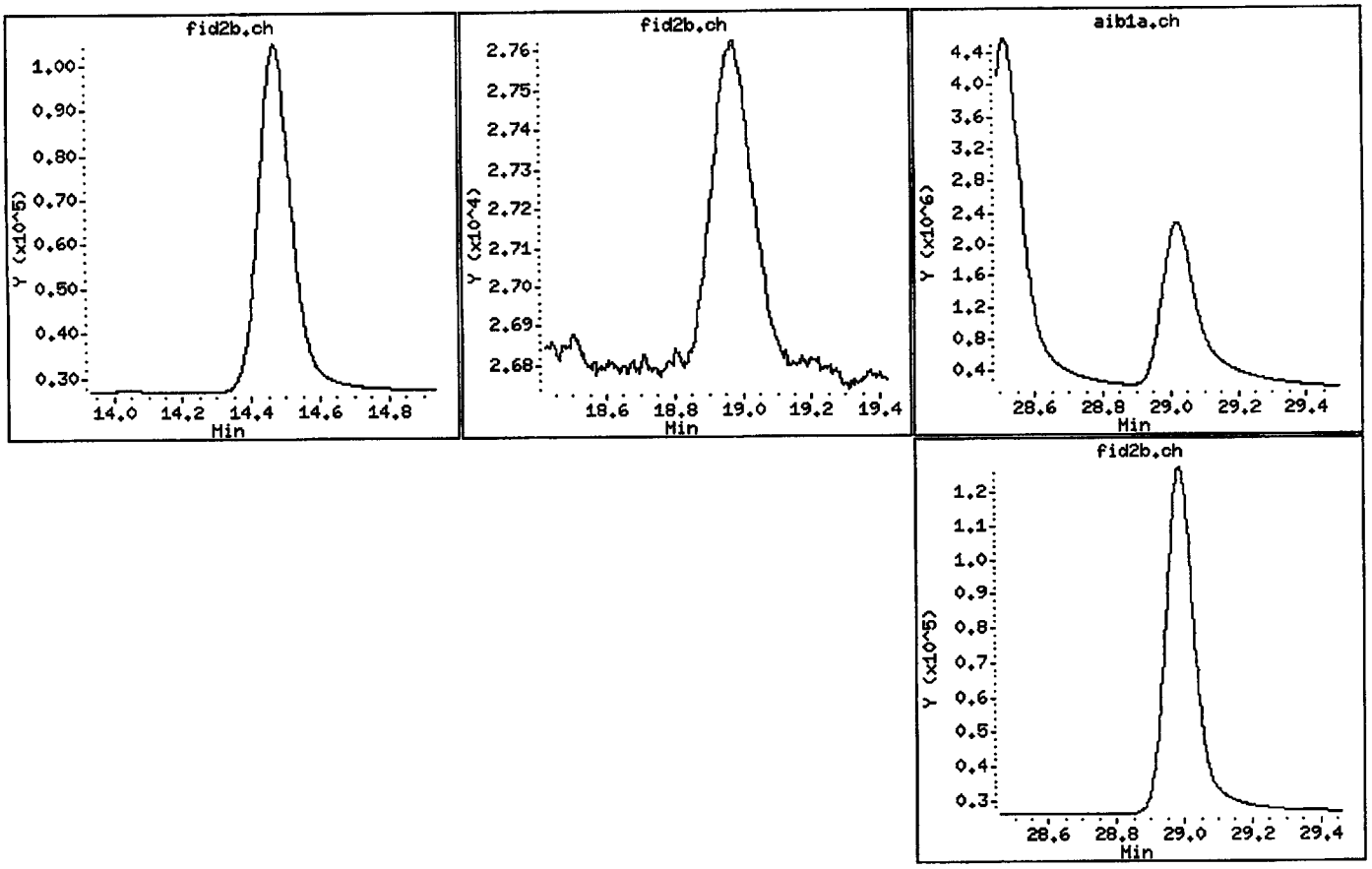


Data File: \\Reinhard\EE\chem\vgc5.i\W5092702.b\178-17.D

× 21 Fluorobenzene

26 Toluene

$ 39 4-bromofluorobenzene



Data File: \\REINHARD\ee\chem\vgc5.i\V5092702.b\178-7.D
Report Date: 04-Oct-2002 12:28

PEL Laboratories, Inc.

Data file : \\REINHARD\ee\chem\vgc5.i\V5092702.b\178-7.D
Lab Smp Id: 220917807 Client Smp ID: 062MW22Q302
Inj Date : 27-SEP-2002 17:35
Operator : EB Inst ID: vgc5.i
Smp Info : 220917807
Misc Info :
Comment :
Method : \\Reinhard\ee\chem\vgc5.i\V5092702.b\8021.m
Meth Date : 04-Oct-2002 12:26 mjacobs Quant Type: ISTD
Cal Date : 07-SEP-2002 19:18 Cal File: 100PPB.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: mbtexrl.sub
Target Version: 4.04
Processing Host: REINHARD

Concentration Formula: Amt * DF * Vf/Vo

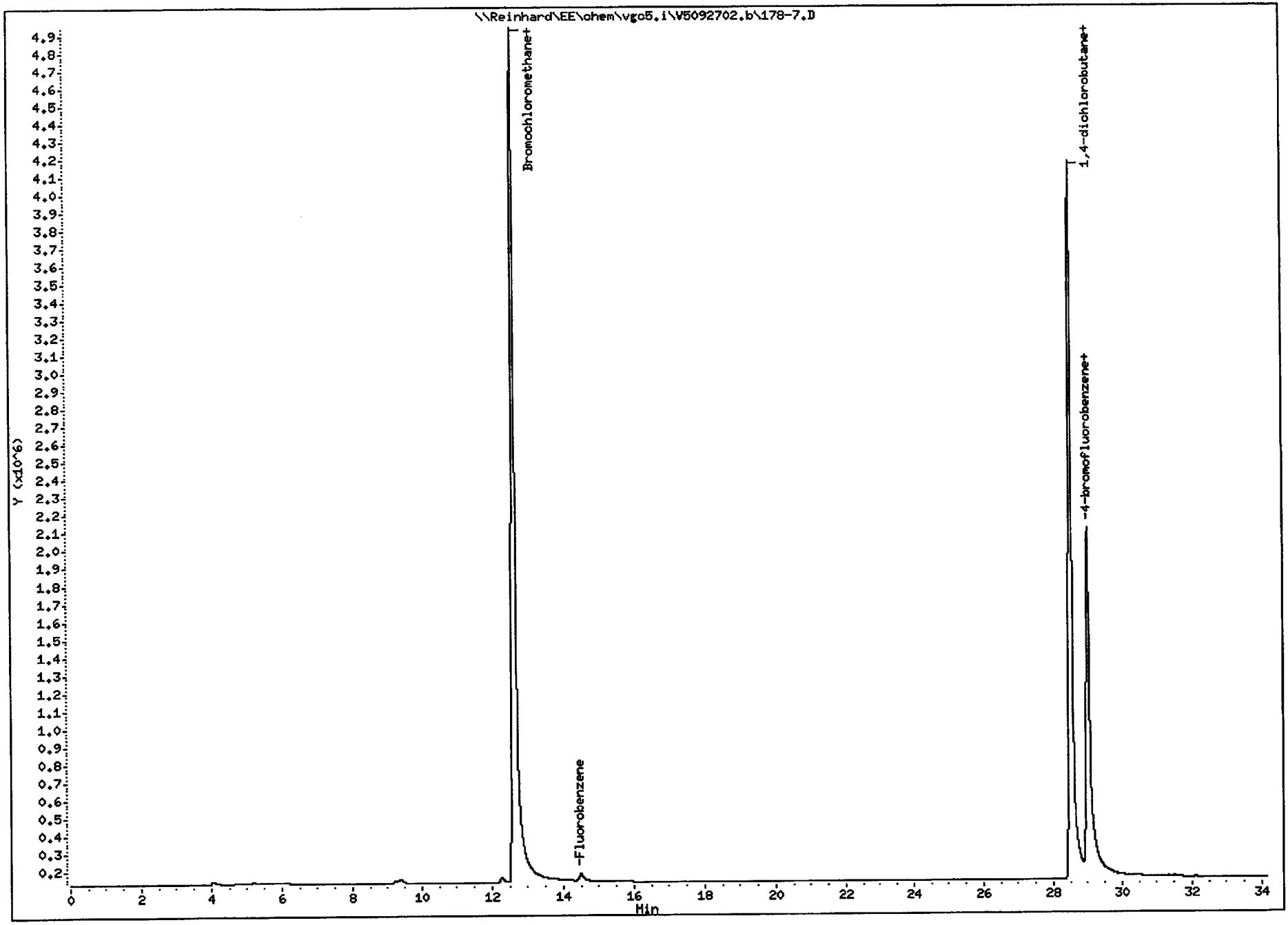
Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	Final Volume
Vo	5.000	Sample Volume

Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
20 Benzene	FID2B	14.030	13.980	(0.970)	8430	0.34909	0.35(a)
* 21 Fluorobenzene	FID2B	14.460	14.410	(1.000)	500860	30.0000	
$ 39 4-bromofluorobenzene	FID2B	28.976	28.940	(2.004)	600768	29.8790	29.9

QC Flag Legend

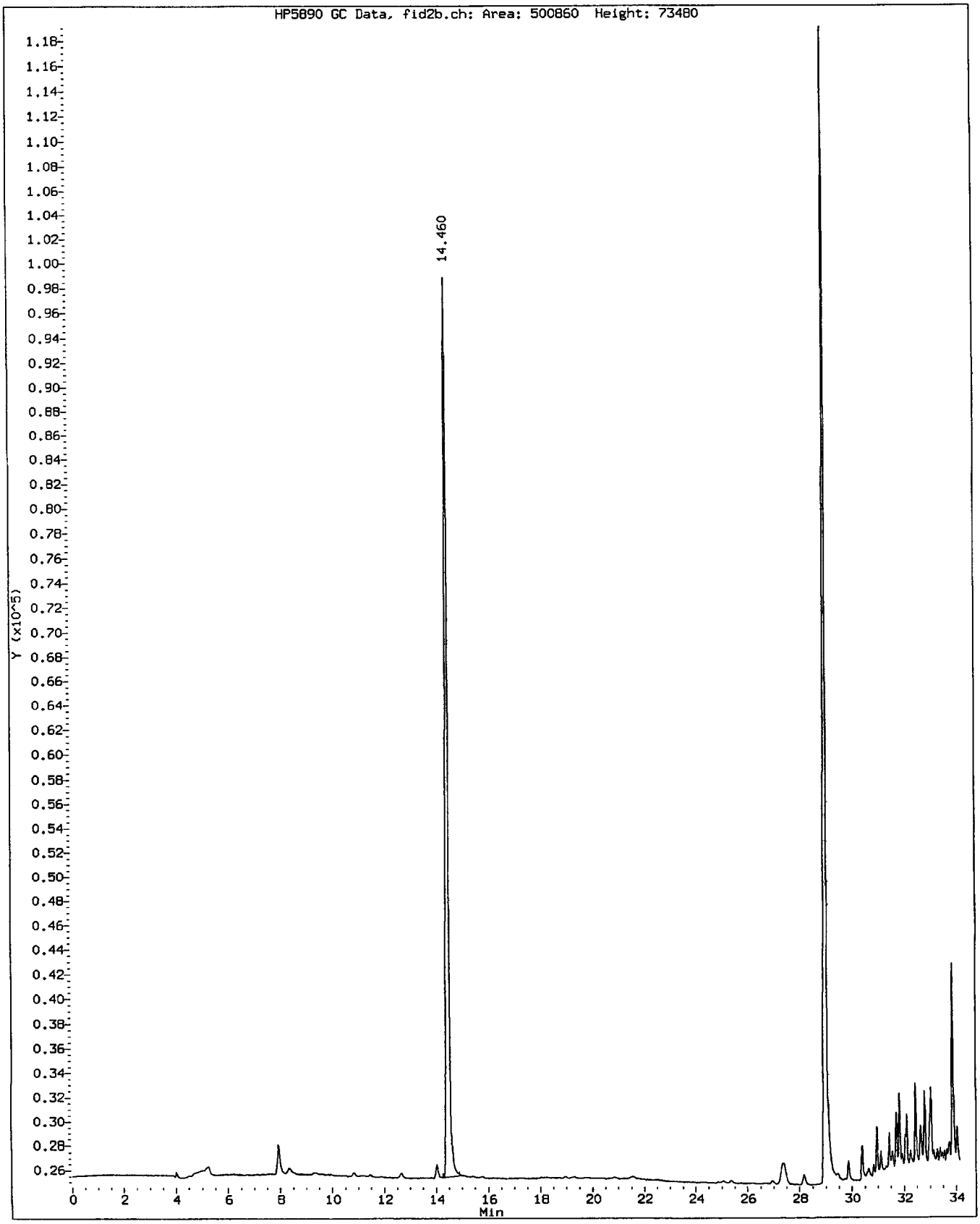
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\Reinhard\EE\chem\vgc5.i\V5092702.b\178-7.D



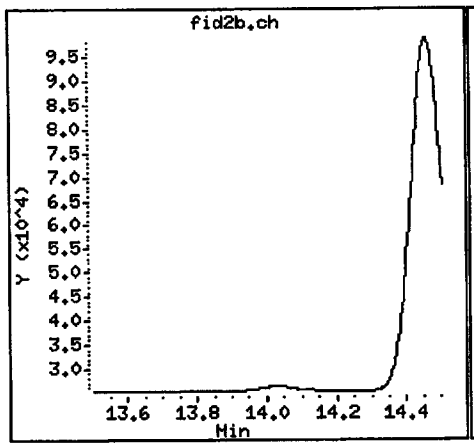
Data File: \\REINHARD\ee\chem\vgc5.i\V5092702.b\178-7.D
Injection Date: 27-SEP-2002 17:35
Instrument: vgc5.i
Client Sample ID: 062MW22Q302

Compound: Fluorobenzene
CAS Number: 462-06-6

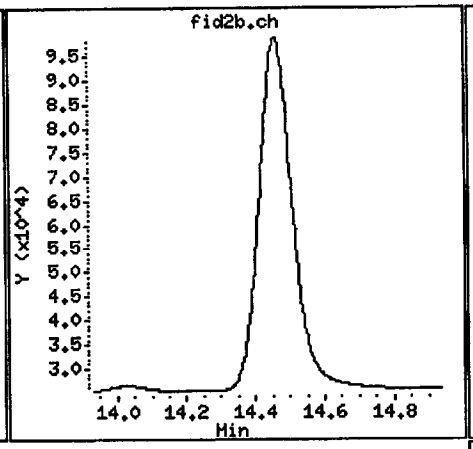


Data File: \\Reinhard\EE\chem\vgc5.i\V5092702.b\178-7.D

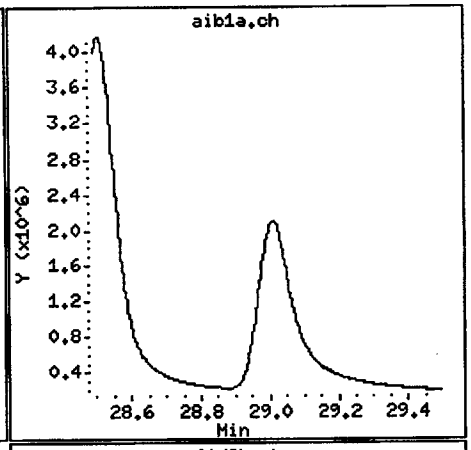
20 Benzene

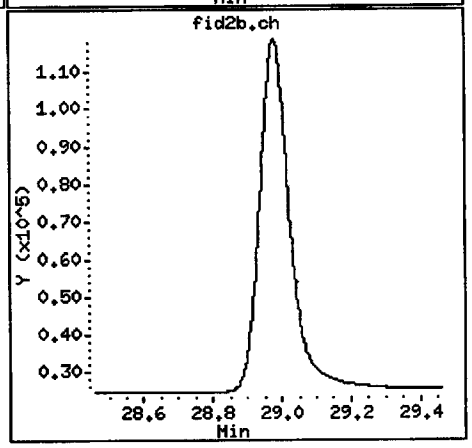


* 21 Fluorobenzene



$ 39 4-bromofluorobenzene





Data File: \\REINHARD\ee\chem\vgc5.i\V5092702.b\CCV54.D
Report Date: 04-Oct-2002 12:29

PEL Laboratories, Inc.

Data file : \\REINHARD\ee\chem\vgc5.i\V5092702.b\CCV54.D
Lab Smp Id: 092702CCVA54 Client Smp ID: 092702CCVA54
Inj Date : 27-SEP-2002 19:01
Operator : EB Inst ID: vgc5.i
Smp Info : 092702CCVA54
Misc Info :
Comment :
Method : \\Reinhard\ee\chem\vgc5.i\V5092702.b\8021.m
Meth Date : 04-Oct-2002 12:29 mjacobs Quant Type: ISTD
Cal Date : 07-SEP-2002 19:18 Cal File: 100PPB.D
Als bottle: 15 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8021rl.sub
Target Version: 4.04
Processing Host: REINHARD

Concentration Formula: Amt * DF * Vf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	Final Volume
Vo	5.000	Sample Volume

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
	1 dichlorodifluoromethane	AIB1A	4.603	4.603	(0.366)	25053381	30.0000	33.4
	2 chloromethane	AIB1A	5.140	5.140	(0.408)	8892467	30.0000	26.4 (M)
	3 vinyl chloride	AIB1A	5.433	5.433	(0.432)	22816158	30.0000	31.7
	4 bromomethane	AIB1A	6.390	6.390	(0.508)	16655847	30.0000	36.0
	5 chloroethane	AIB1A	6.580	6.580	(0.523)	38125552	30.0000	31.6
	6 trichlorofluoromethane	AIB1A	7.063	7.063	(0.561)	41104589	30.0000	33.0
	8 1,1-dichloroethene	AIB1A	8.326	8.326	(0.661)	54017582	30.0000	29.1
	9 methylene chloride	AIB1A	9.176	9.176	(0.729)	64115349	30.0000	29.6 (M)
	10 MTBE	FID2B	9.450	9.450	(0.655)	311673	30.0000	36.0
	11 trans 1,2-dichloroethene	AIB1A	9.786	9.786	(0.777)	48618604	30.0000	28.1
	13 1,1-dichloroethane	AIB1A	10.640	10.640	(0.845)	49307142	30.0000	28.6
	14 cis-1,2-dichloroethene	AIB1A	11.896	11.896	(0.945)	46673532	30.0000	29.1
M	12 1,2-Dichloroethene (tot)	AIB1A				95292136	60.0000	57.2
	15 chloroform	AIB1A	12.223	12.223	(0.971)	58090004	30.0000	28.5
*	16 Bromochloromethane	AIB1A	12.590	12.590	(1.000)	35340691	30.0000	
	17 1,1,1-trichloroethane	AIB1A	13.093	13.093	(1.040)	50839716	30.0000	27.4

Data File: \\REINHARD\ee\chem\vgc5.i\V5092702.b\CCV54.D
Report Date: 04-Oct-2002 12:29

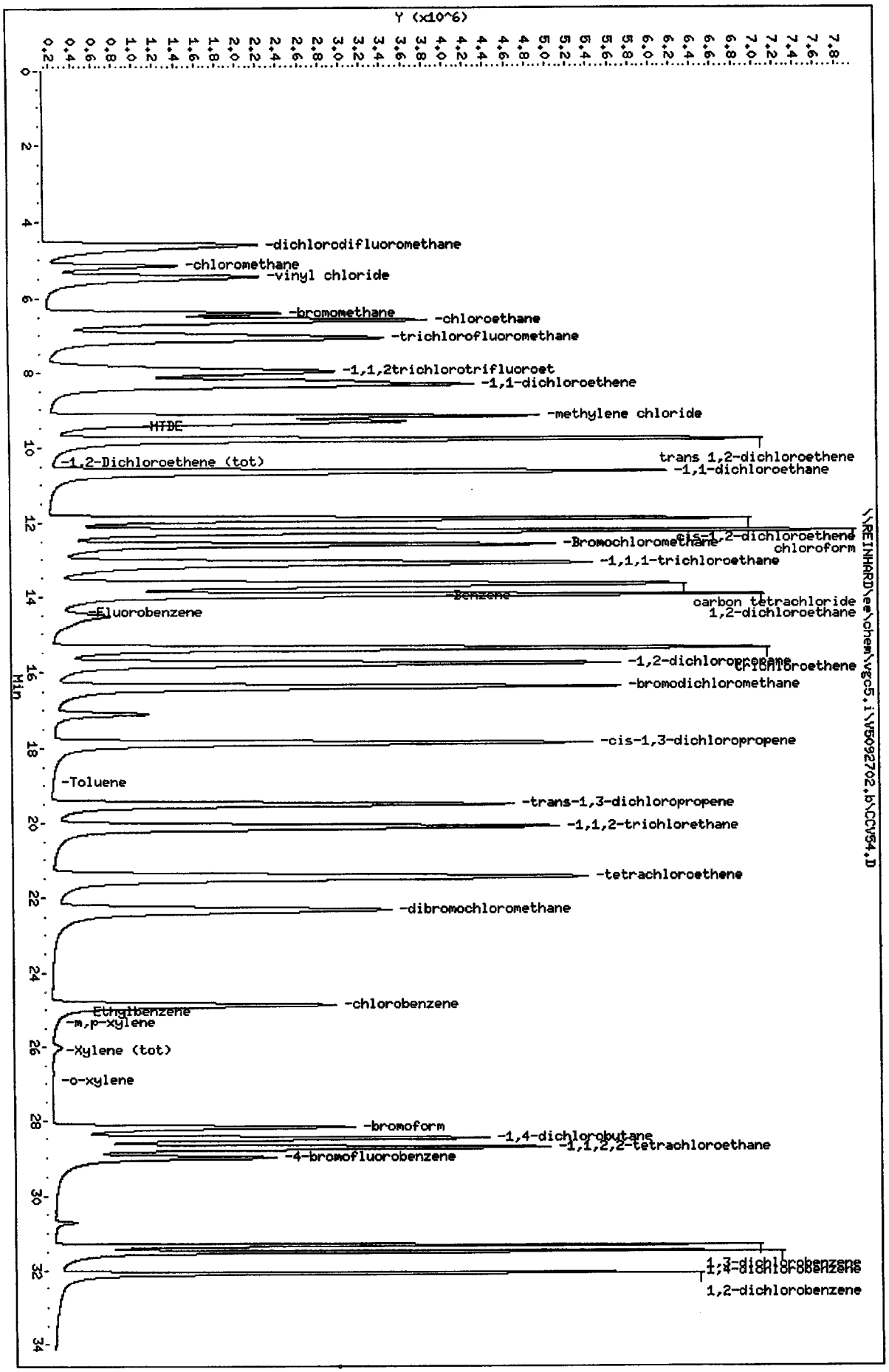
	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
	18 carbon tetrachloride	AIB1A	13.670	13.670	(1.086)	56016714	30.0000	26.8
	19 1,2-dichloroethane	AIB1A	13.953	13.953	(1.108)	49128021	30.0000	29.3
	20 Benzene	FID2B	14.006	14.006	(0.970)	799314	30.0000	32.4
*	21 Fluorobenzene	FID2B	14.436	14.436	(1.000)	512285	30.0000	
	22 trichloroethene	AIB1A	15.376	15.376	(1.221)	50820004	30.0000	26.5
	23 1,2-dichloropropane	AIB1A	15.783	15.783	(1.254)	42648811	30.0000	28.2
	24 bromodichloromethane	AIB1A	16.383	16.383	(1.301)	45086220	30.0000	31.2
	25 cis-1,3-dichloropropene	AIB1A	17.863	17.863	(1.419)	43024254	30.0000	29.8
	26 Toluene	FID2B	18.920	18.920	(1.311)	732445	30.0000	33.6
	27 trans-1,3-dichloropropene	AIB1A	19.506	19.506	(1.549)	39366738	30.0000	31.5
	28 1,1,2-trichlorethane	AIB1A	20.110	20.110	(1.597)	47738547	30.0000	30.7
	29 tetrachloroethene	AIB1A	21.463	21.463	(1.705)	60107282	30.0000	27.8
	30 dibromochloromethane	AIB1A	22.333	22.333	(1.774)	36200592	30.0000	34.8
	31 chlorobenzene	AIB1A	24.880	24.880	(1.976)	24962653	30.0000	31.4
	32 Ethylbenzene	FID2B	25.053	25.053	(1.735)	677422	30.0000	33.1
	33 m,p-xylene	FID2B	25.346	25.346	(1.756)	1463220	60.0000	66.1
	35 o-xylene	FID2B	26.923	26.923	(1.865)	598273	30.0000	32.2
	36 bromoform	AIB1A	28.183	28.183	(2.239)	22693847	30.0000	41.0
M	34 Xylene (tot)	FID2B				2061493	90.0000	98.3
$	37 1,4-dichlorobutane	AIB1A	28.483	28.483	(2.262)	29888124	30.0000	29.4
	38 1,1,2,2-tetrachloroethane	AIB1A	28.730	28.730	(2.282)	33997604	30.0000	31.9
$	39 4-bromofluorobenzene	FID2B	28.956	28.956	(2.006)	630808	30.0000	30.7
	40 1,3-dichlorobenzene	AIB1A	31.326	31.326	(2.488)	26839280	30.0000	29.6
	41 1,4-dichlorobenzene	AIB1A	31.493	31.493	(2.501)	32514504	30.0000	27.9
	42 1,2-dichlorobenzene	AIB1A	32.076	32.076	(2.548)	28455987	30.0000	29.6

QC Flag Legend

M - Compound response manually integrated.

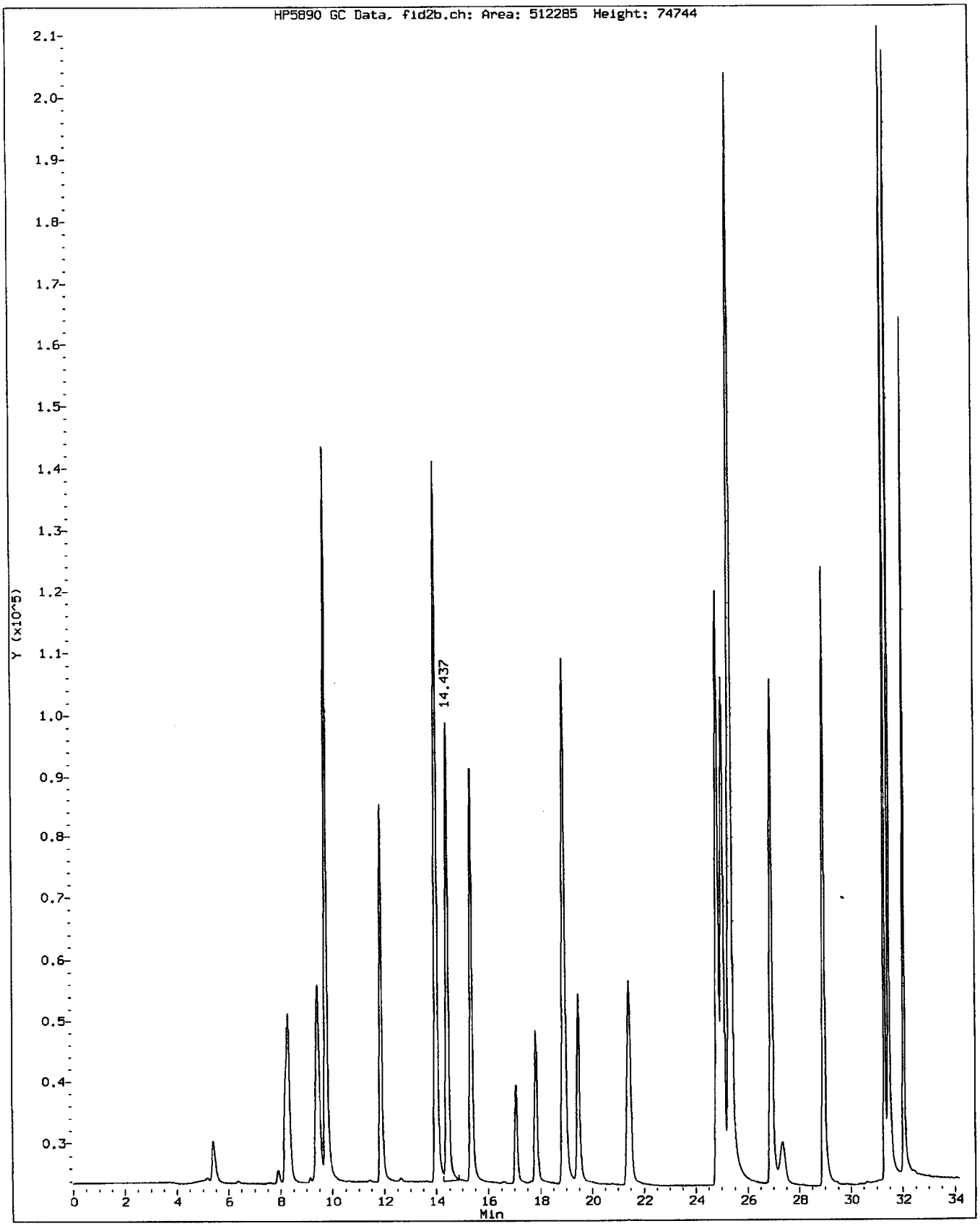
Data File: \\REINHARD\ee\chem\vgc5.i\V5092702.b\CCV54.D
Date : 27-SEP-2002 19:01
Client ID: 092702CCVA54
Sample Info: 092702CCVA54
Purge Volume: 5.0
Column phase: RTX 502.2

Instrument: vgc5.i
Operator: EB
Column diameter: 0.53



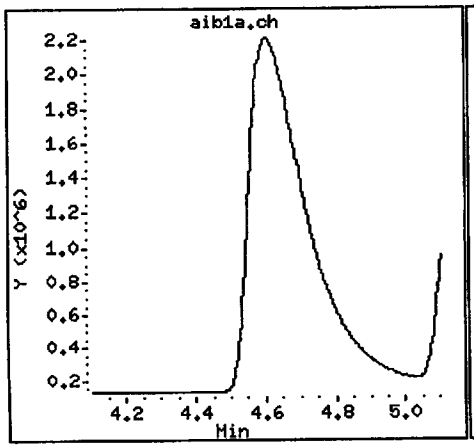
Data File: \\REINHARD\ee\chem\vgc5.i\V5092702.b\CCV54.D
Injection Date: 27-SEP-2002 19:01
Instrument: vgc5.i
Client Sample ID: 092702CCVA54

Compound: Fluorobenzene
CAS Number: 462-06-6

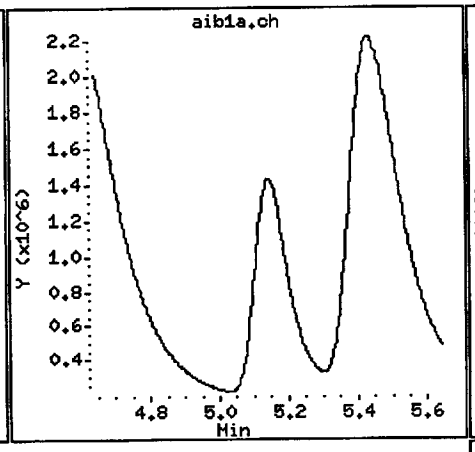


Data File: \\Reinhard\EE\chem\vgc5.i\V5092702.b\CCV54.D

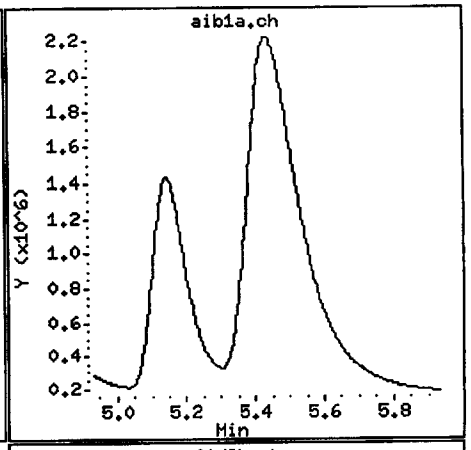
1 dichlorodifluoromethane

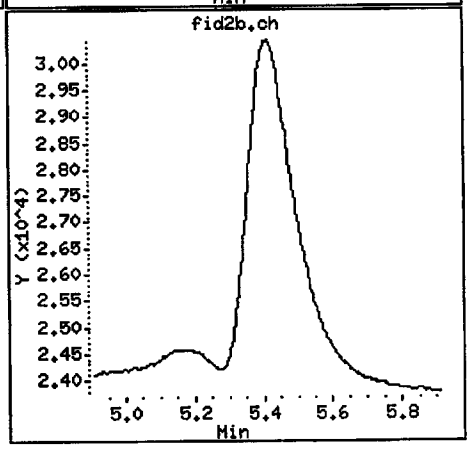


2 chloromethane



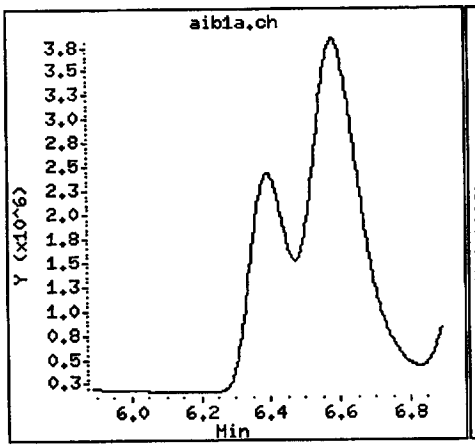
3 vinyl chloride



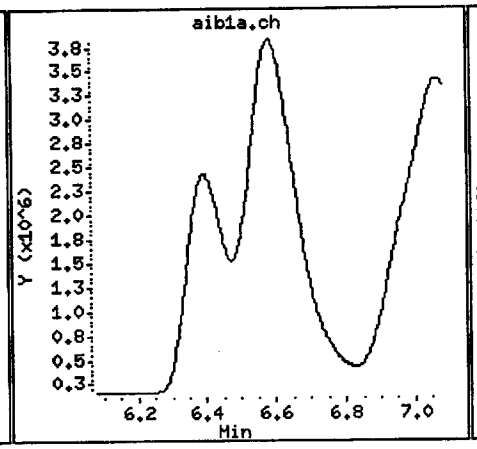


Data File: \\Reinhard\EE\chem\vgc5.i\V5092702.b\CCV54.D

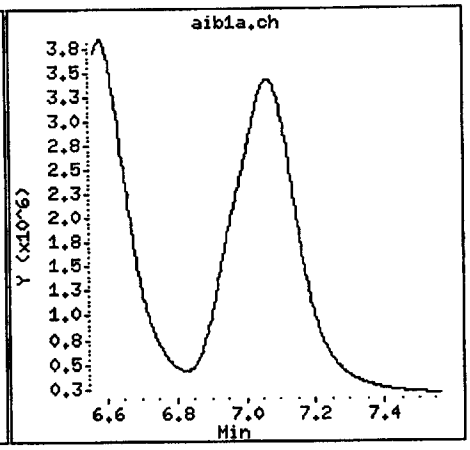
4 bromomethane



5 chloroethane

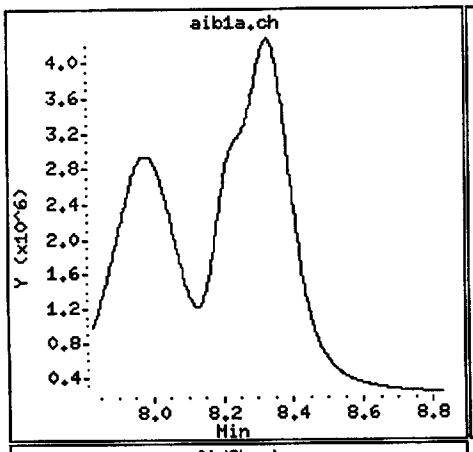


6 trichlorofluoromethane

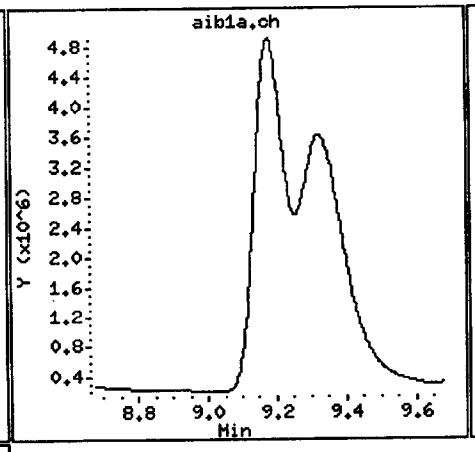


Data File: \\Reinhard\EE\chem\vgc5.i\V5092702.b\CCV54.D

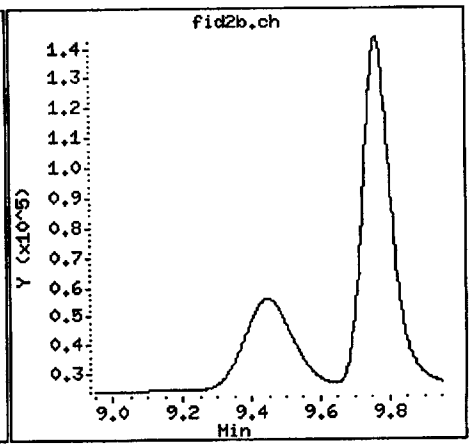
8 1,1-dichloroethene

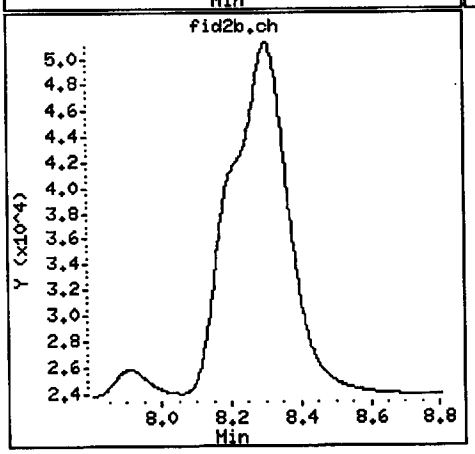


9 methylene chloride



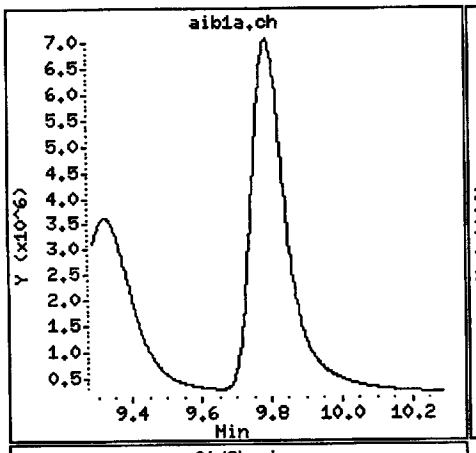
10 MTBE



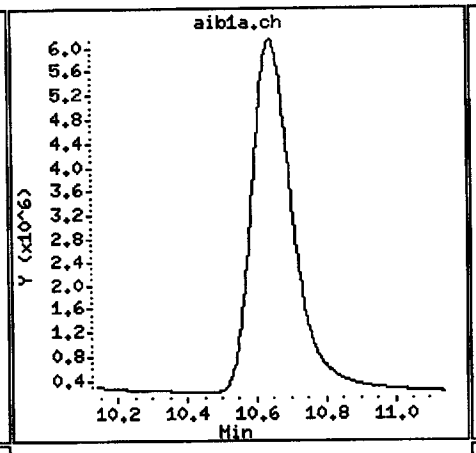


Data File: \\Reinhard\EE\chem\vgc5.i\V5092702.b\CCV54.D

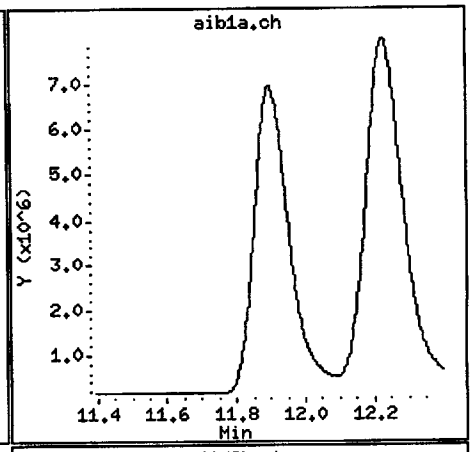
11 trans 1,2-dichloroethene

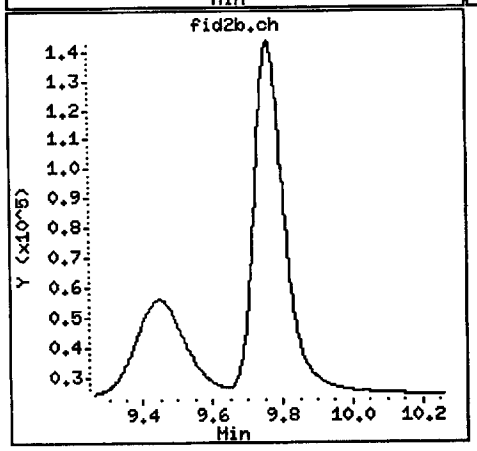


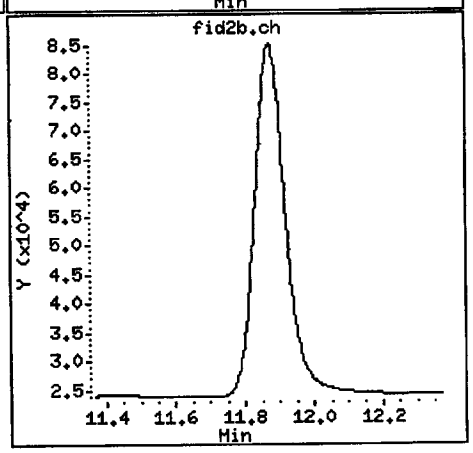
13 1,1-dichloroethane



14 cis-1,2-dichloroethene







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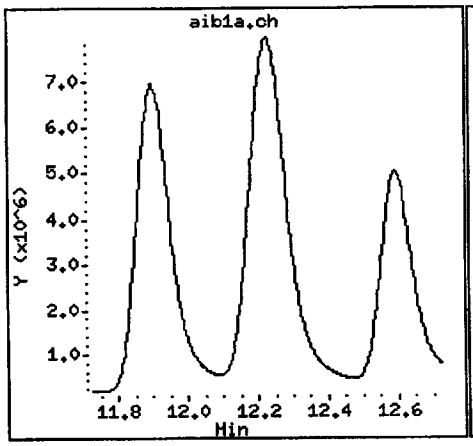
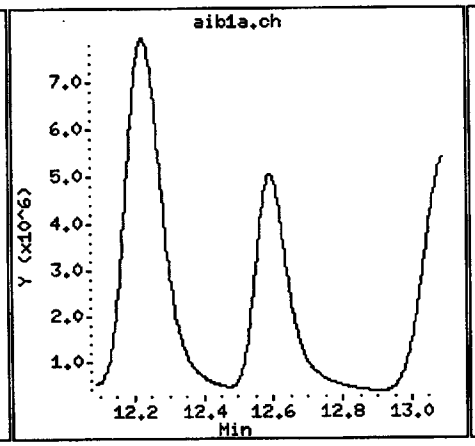
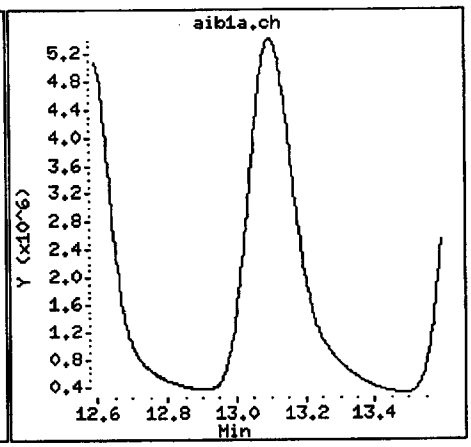
15 chloroform



* 16 Bromochloromethane



17 1,1,1-trichloroethane



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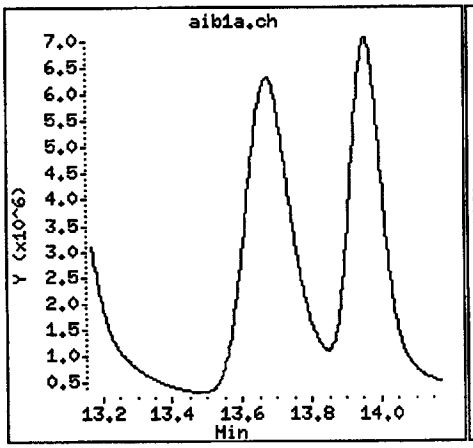
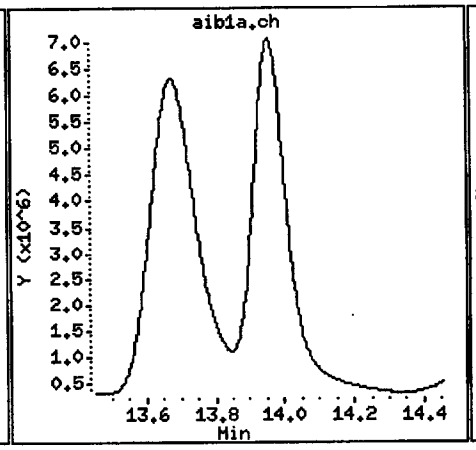
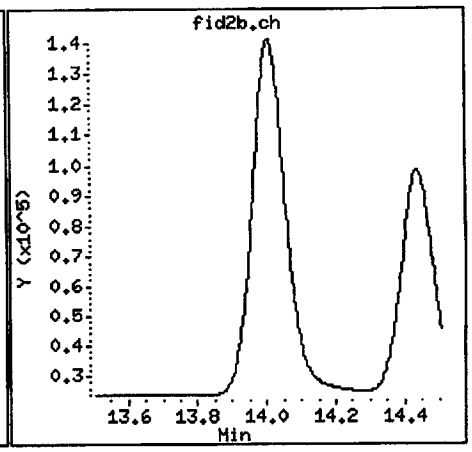
18 carbon tetrachloride



19 1,2-dichloroethane



20 Benzene



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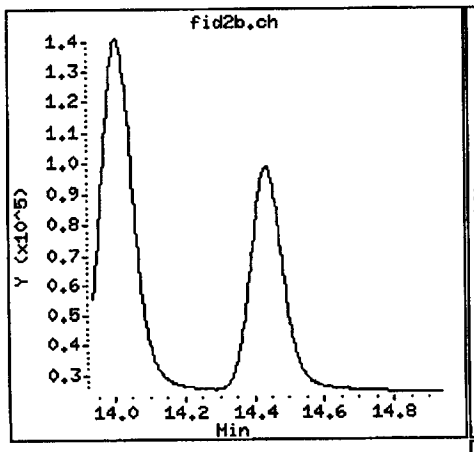
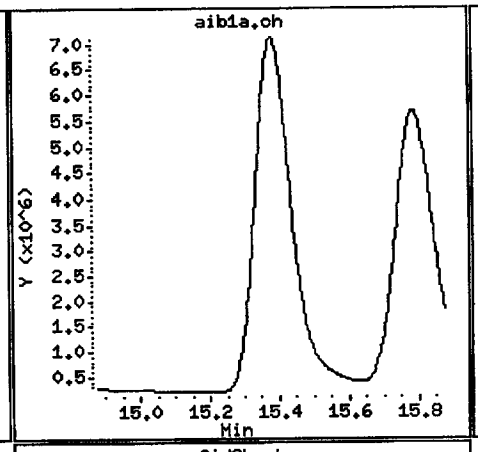
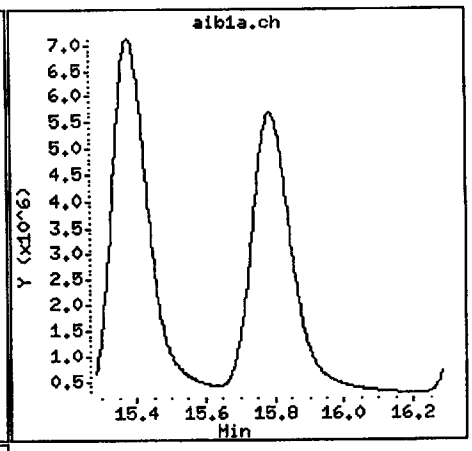
* 21 Fluorobenzene

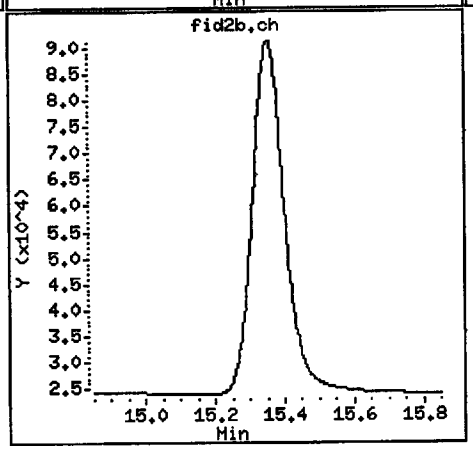


22 trichloroethene



23 1,2-dichloropropane





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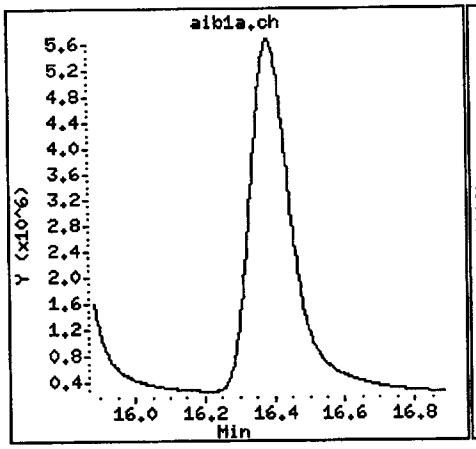
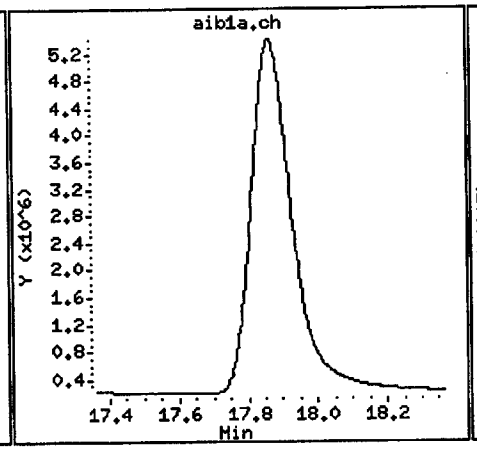
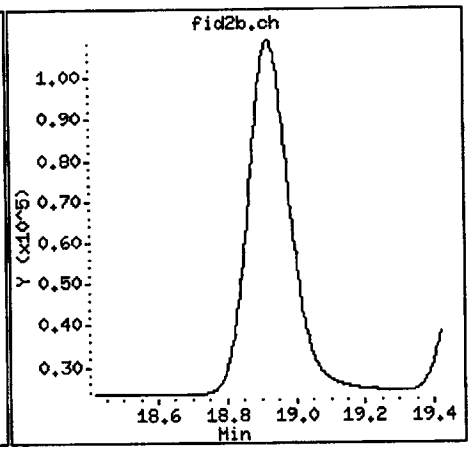
24 bromodichloromethane



25 cis-1,3-dichloropropene

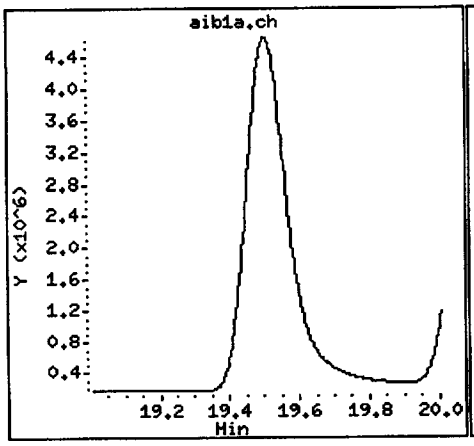


26 Toluene

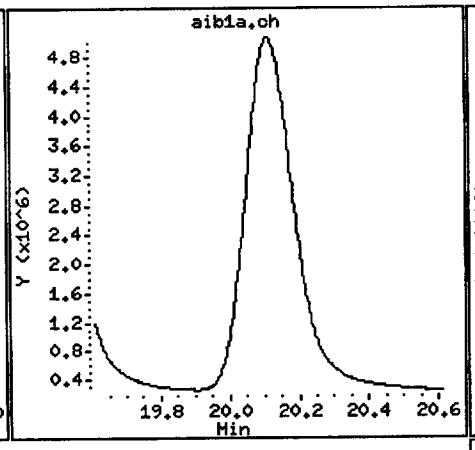


Data File: \\Reinhard\EE\chem\vgc5.i\V5092702.b\CCV54.D

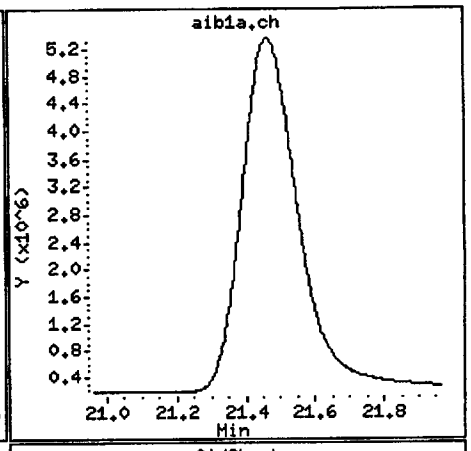
27 trans-1,3-dichloropropen

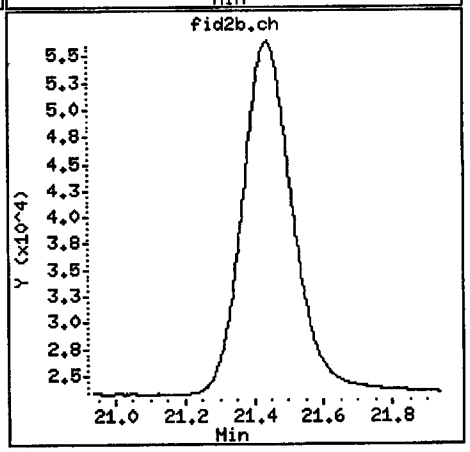


28 1,1,2-trichlorethane



29 tetrachloroethene





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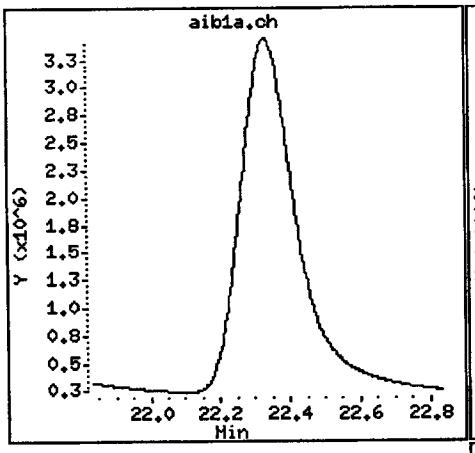
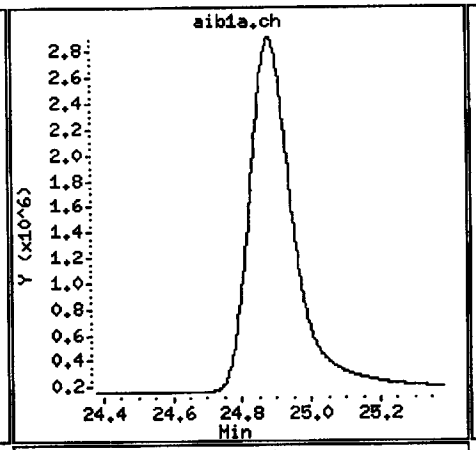
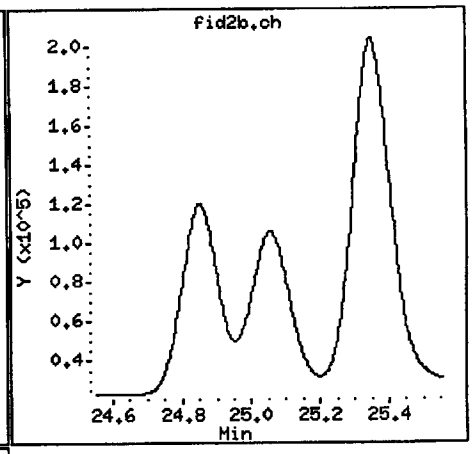
30 dibromochloromethane

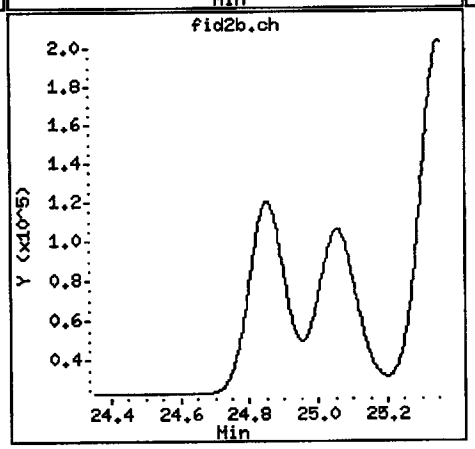


31 chlorobenzene



32 Ethylbenzene





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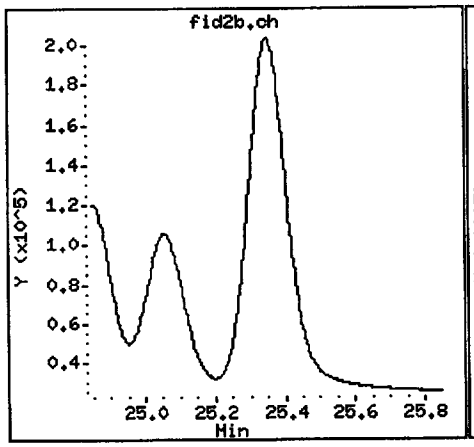
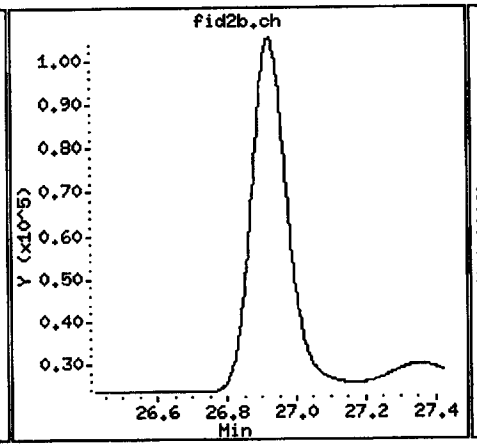
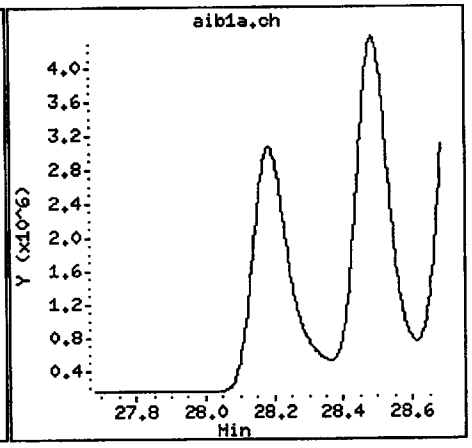
33 m,p-xylene



35 o-xylene



36 bromoform



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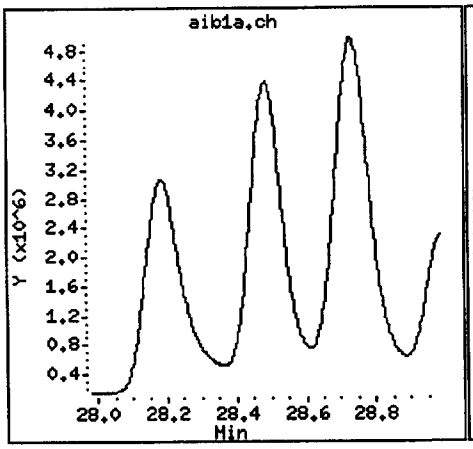
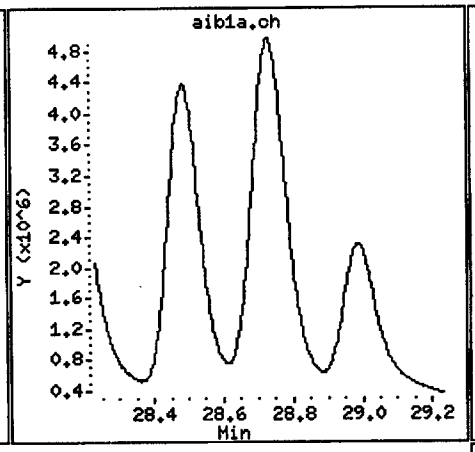
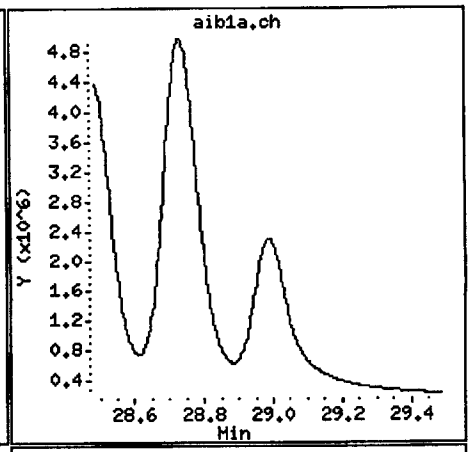
$ 37 1,4-dichlorobutane

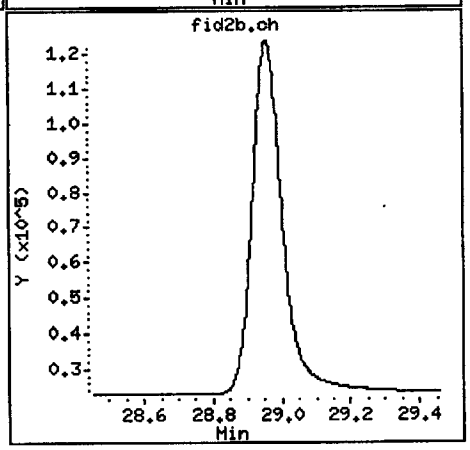


38 1,1,2,2-tetrachloroethan



$ 39 4-bromofluorobenzene





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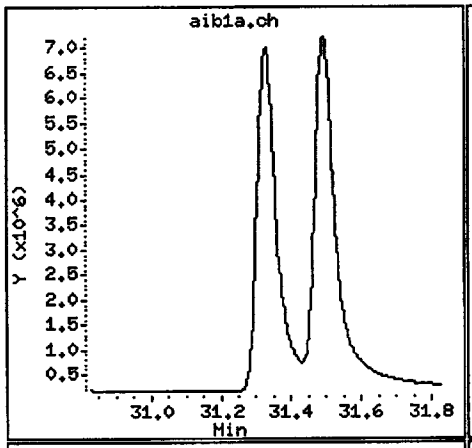
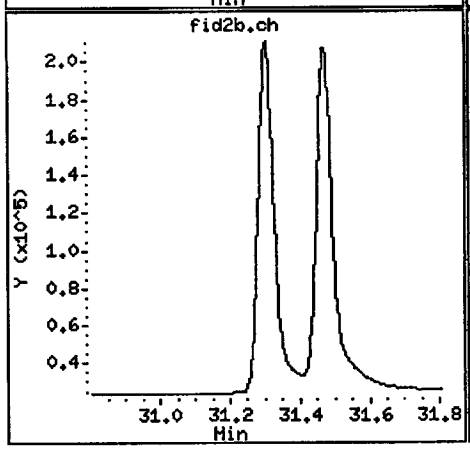
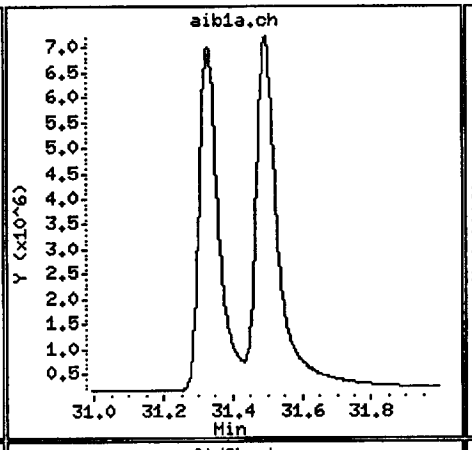
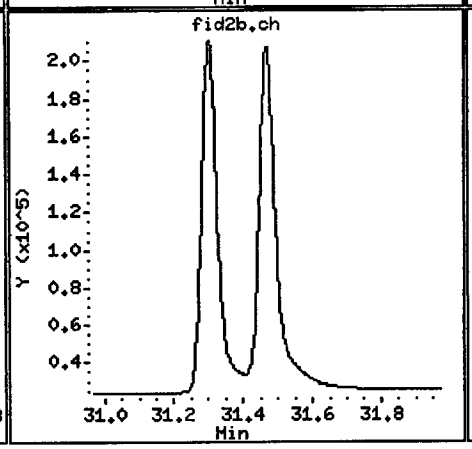
40 1,3-dichlorobenzene



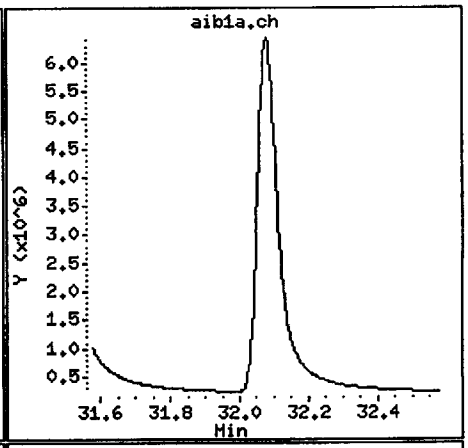


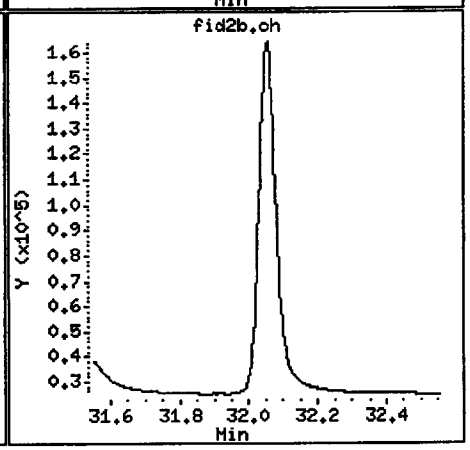
41 1,4-dichlorobenzene





42 1,2-dichlorobenzene





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Report Date: 04-Oct-2002 12:29

PEL Laboratories, Inc.

Data file : \\REINHARD\ee\chem\vgc5.i\V5092702.b\178-8.D
Lab Smp Id: 220917808 Client Smp ID: 062VEW2Q302
Inj Date : 27-SEP-2002 19:43
Operator : EB Inst ID: vgc5.i
Smp Info : 220917808
Misc Info :
Comment :
Method : \\Reinhard\ee\chem\vgc5.i\V5092702.b\8021.m
Meth Date : 04-Oct-2002 12:29 mjacobs Quant Type: ISTD
Cal Date : 07-SEP-2002 19:18 Cal File: 100PPB.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: mbtexrl.sub
Target Version: 4.04
Processing Host: REINHARD

Concentration Formula: Amt * DF * Vf/Vo

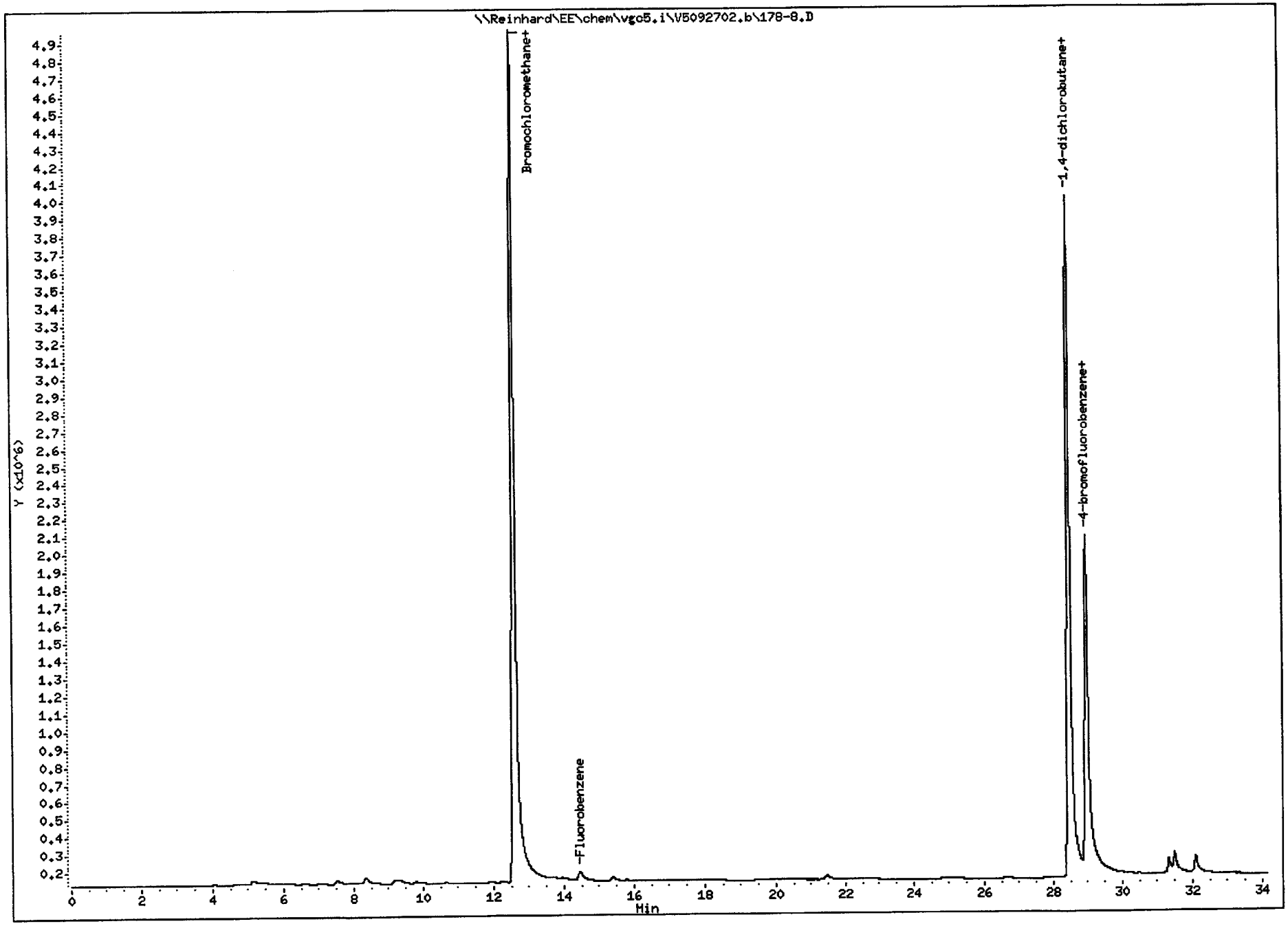
Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	Final Volume
Vo	5.000	Sample Volume

Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 21 Fluorobenzene	FID2B	14.430	14.436	(1.000)	531871	30.0000	
35 o-xylene	FID2B	26.916	26.923	(1.865)	4092	0.21242	0.21(a)
M 34 Xylene (tot)	FID2B				4092	0.21242	0.21(a)
$ 39 4-bromofluorobenzene	FID2B	28.953	28.956	(2.006)	630638	29.5358	29.5

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\Reinhard\EE\chem\vgc5.i\V5092702.b\178-8.D



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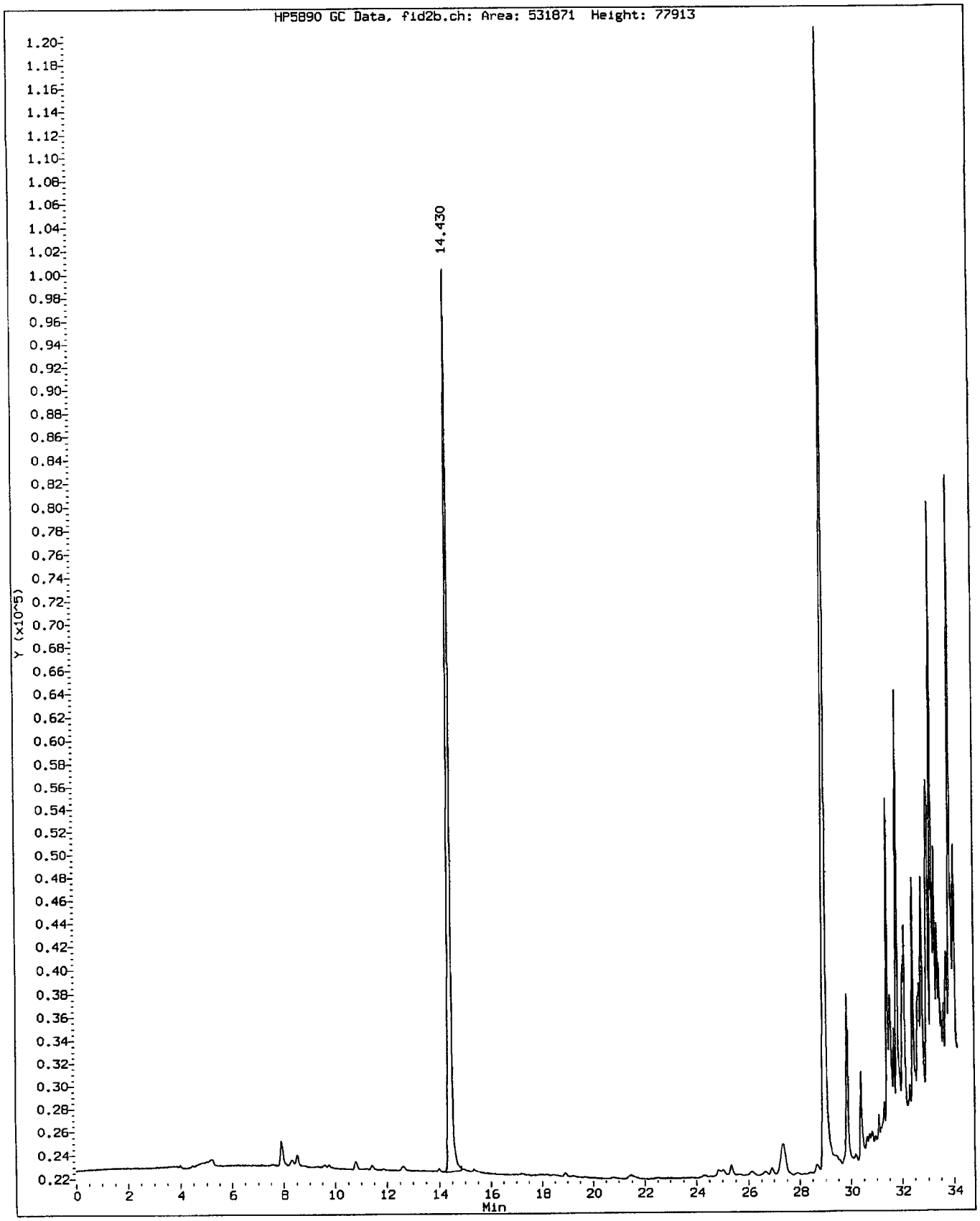
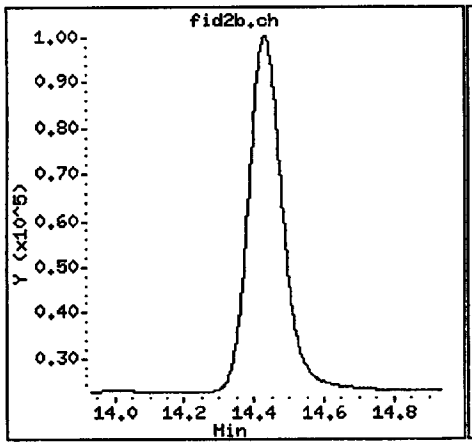
Injection Date: 27-SEP-2002 19:43
Instrument: vgc5.i
Client Sample ID: 062VEW2Q302

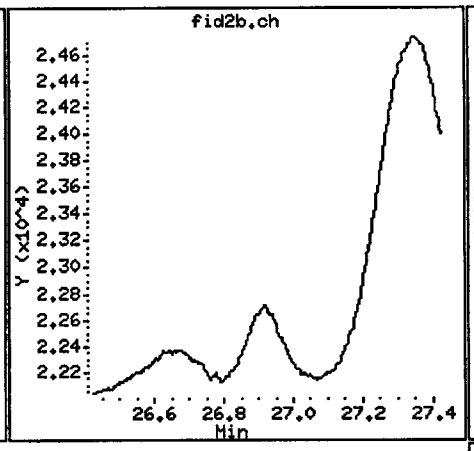
Compound: Fluorobenzene
CAS Number: 462-06-6



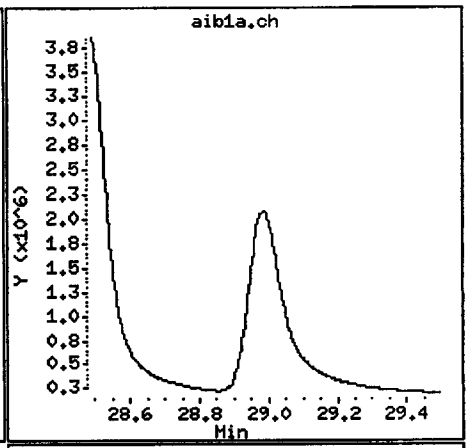
* 21 Fluorobenzene

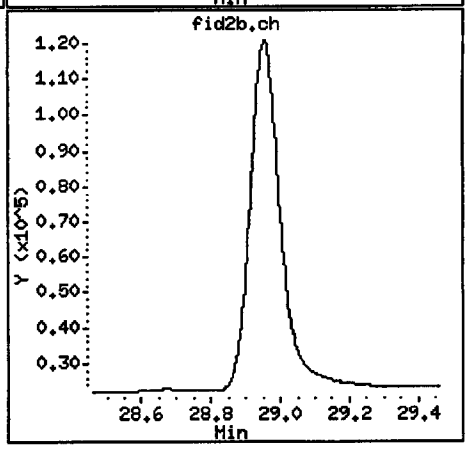


35 o-xylene



$ 39 4-bromofluorobenzene





Data File: \\REINHARD\ee\chem\vgc5.i\V5092702.b\178-9.D
Report Date: 04-Oct-2002 12:29

PEL Laboratories, Inc.

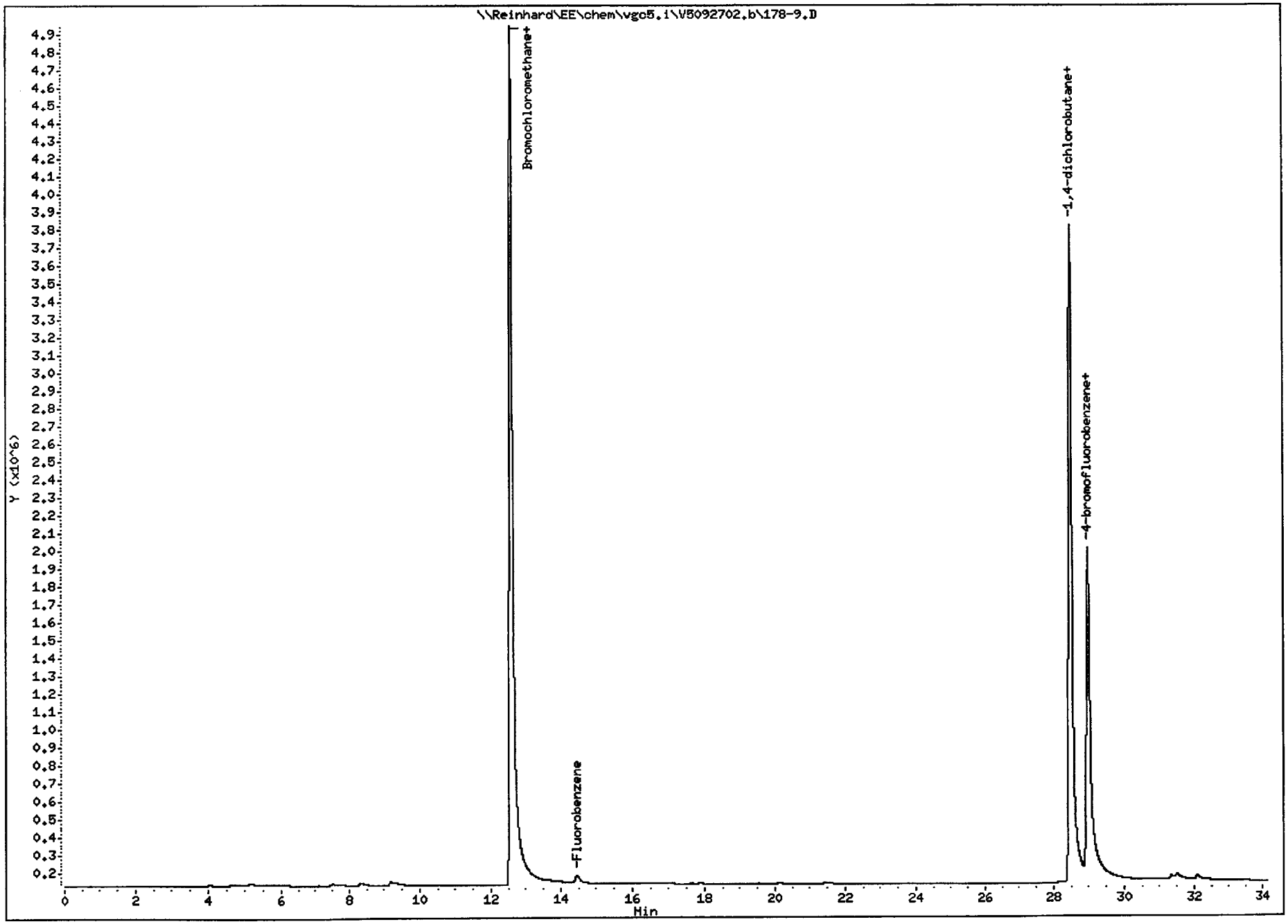
Data file : \\REINHARD\ee\chem\vgc5.i\V5092702.b\178-9.D
Lab Smp Id: 2209017809
Inj Date : 27-SEP-2002 20:26
Operator : EB Inst ID: vgc5.i
Smp Info : 2209017809
Misc Info :
Comment :
Method : \\Reinhard\ee\chem\vgc5.i\V5092702.b\8021.m
Meth Date : 04-Oct-2002 12:29 mjacobs Quant Type: ISTD
Cal Date : 07-SEP-2002 19:18 Cal File: 100PPB.D
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: mbtexrl.sub
Target Version: 4.04
Processing Host: REINHARD

Concentration Formula: Amt * DF * Vf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	Final Volume
Vo	5.000	Sample Volume

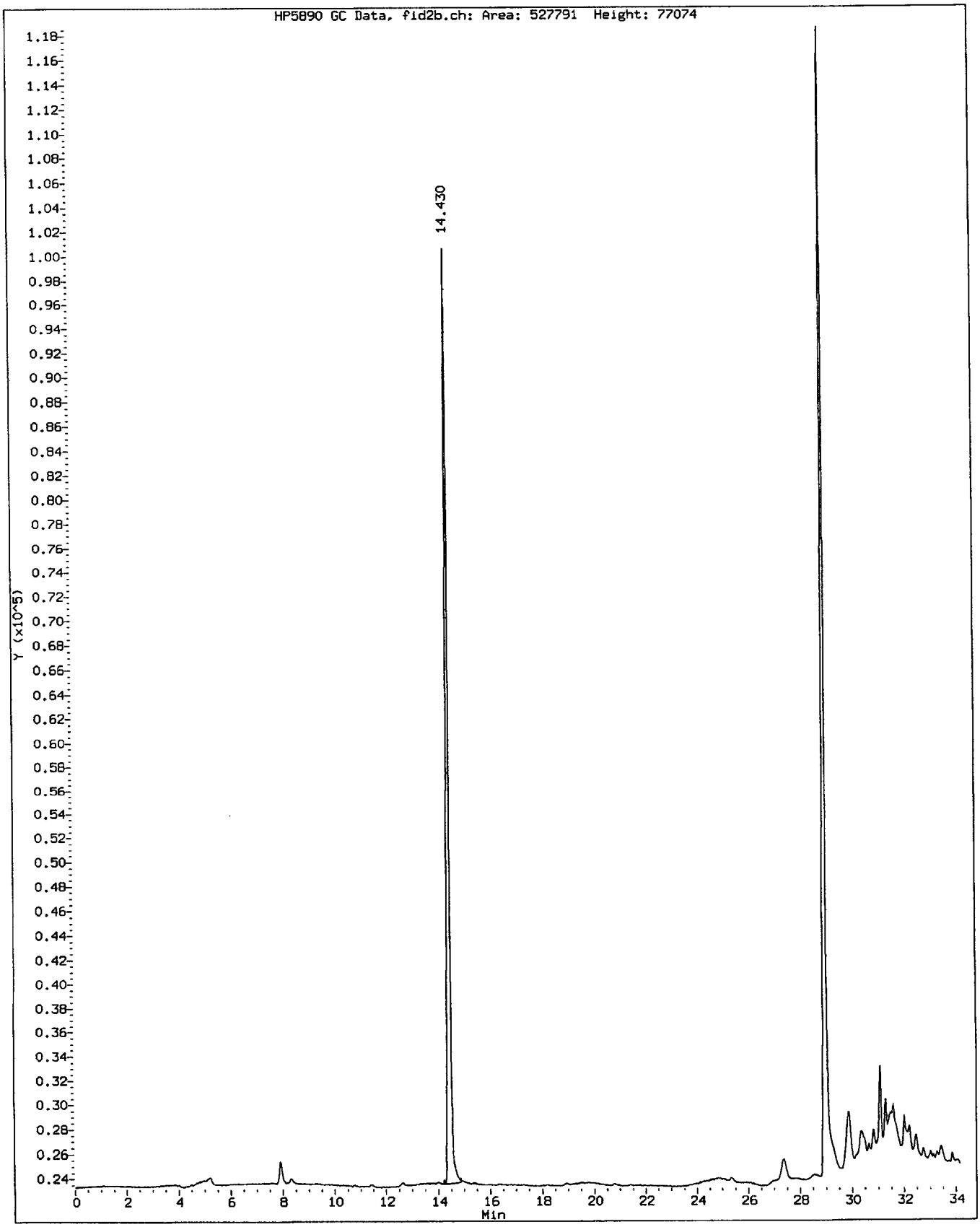
Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 21 Fluorobenzene	FID2B	14.430	14.436	(1.000)	527791	30.0000	
$ 39 4-bromofluorobenzene	FID2B	28.953	28.956	(2.006)	629846	29.7268	29.7

Data File: \\Reinhard\EE\chem\vgc5.i\V5092702.b\178-9.D

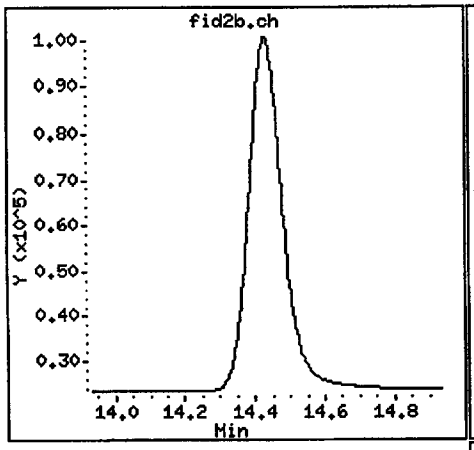


Data File: \\REINHARD\ee\chem\vgc5.i\V5092702.b\178-9.D
Injection Date: 27-SEP-2002 20:26
Instrument: vgc5.i
Client Sample ID:

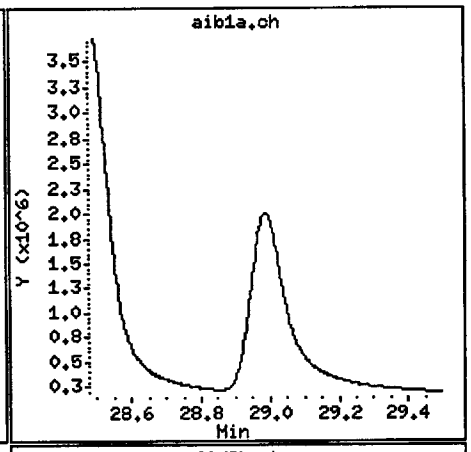
Compound: Fluorobenzene
CAS Number: 462-06-6

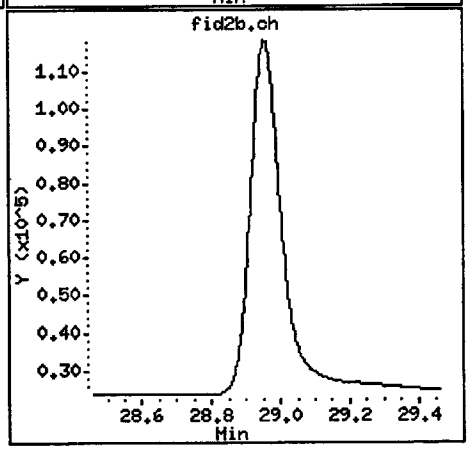


* 21 Fluorobenzene



$ 39 4-bromofluorobenzene





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Report Date: 04-Oct-2002 12:29

PEL Laboratories, Inc.

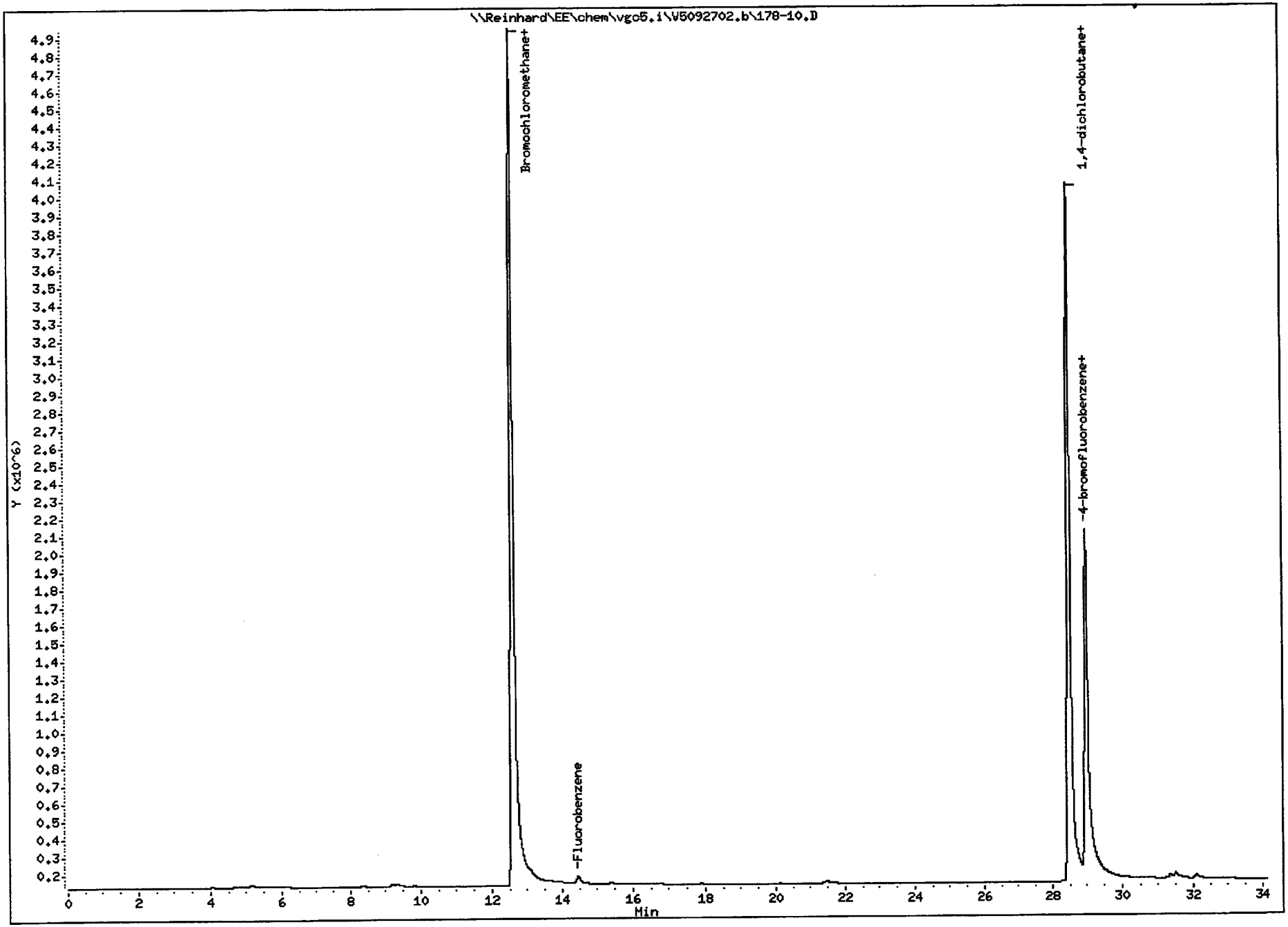
Data file : \\REINHARD\ee\chem\vgc5.i\V5092702.b\178-10.D
Lab Smp Id: 220917810 Client Smp ID: 062VEW4Q302
Inj Date : 27-SEP-2002 21:08
Operator : EB Inst ID: vgc5.i
Smp Info : 220917810
Misc Info :
Comment :
Method : \\Reinhard\ee\chem\vgc5.i\V5092702.b\8021.m
Meth Date : 04-Oct-2002 12:29 mjacobs Quant Type: ISTD
Cal Date : 07-SEP-2002 19:18 Cal File: 100PPB.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: mbtexrl.sub
Target Version: 4.04
Processing Host: REINHARD

Concentration Formula: Amt * DF * Vf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	Final Volume
Vo	5.000	Sample Volume

Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 21 Fluorobenzene	FID2B	14.433	14.436	(1.000)	533561	30.0000	
$ 39 4-bromofluorobenzene	FID2B	28.953	28.956	(2.006)	630770	29.4485	29.4

Data File: \\Reinhard\EE\chem\vgc5.i\V5092702.b\178-10.D



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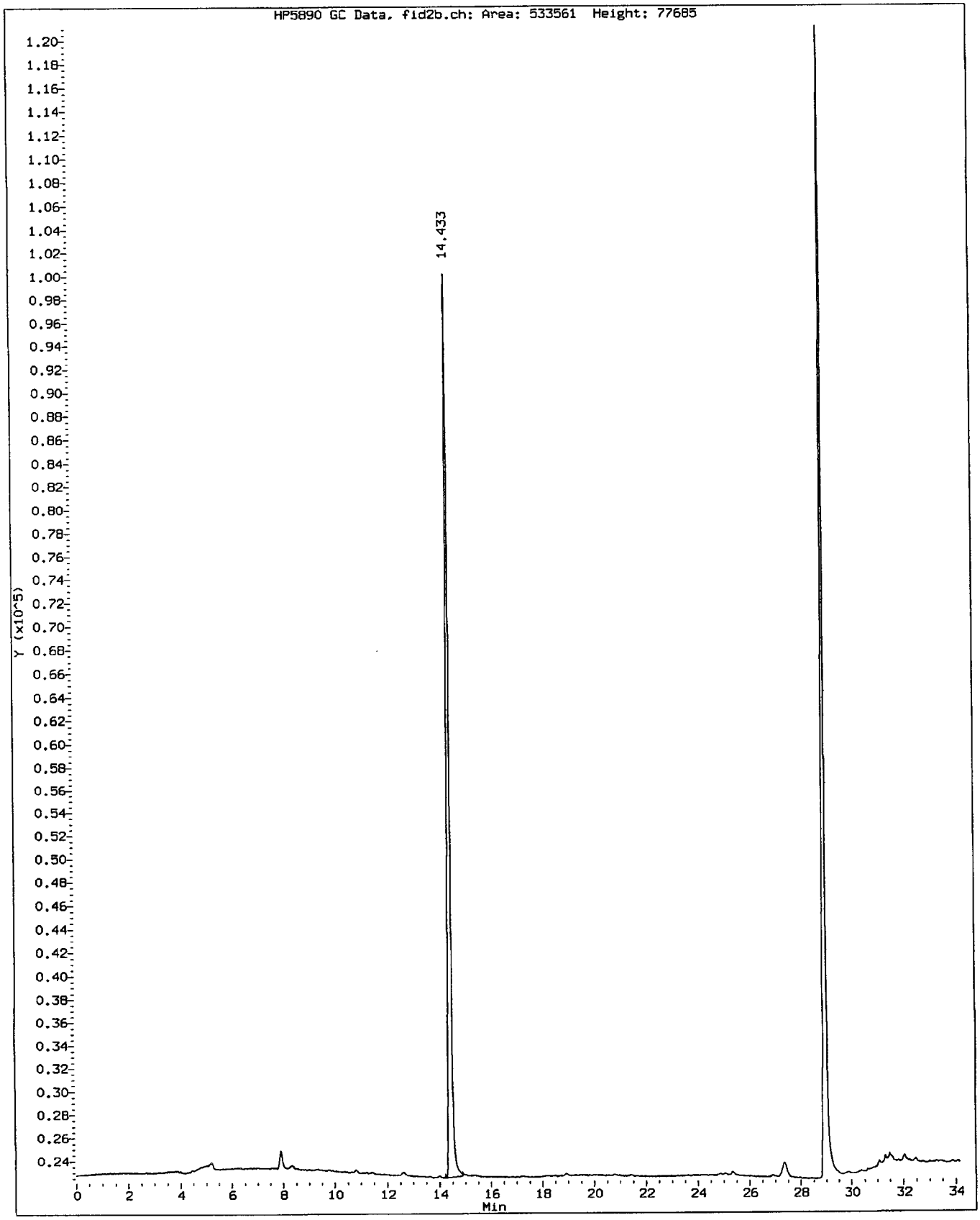
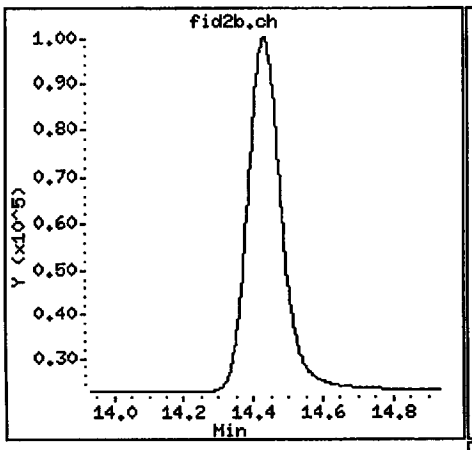
Injection Date: 27-SEP-2002 21:08
Instrument: vgc5.i
Client Sample ID: 062VEW4Q302

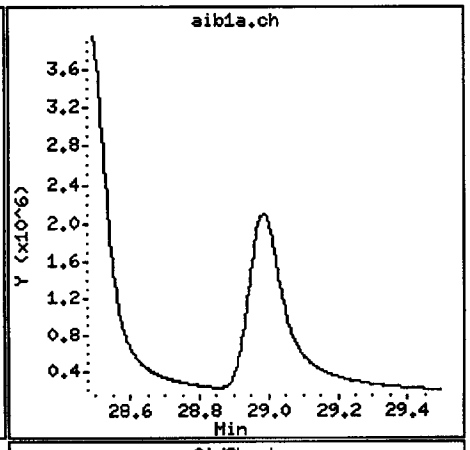
Compound: Fluorobenzene
CAS Number: 462-06-6

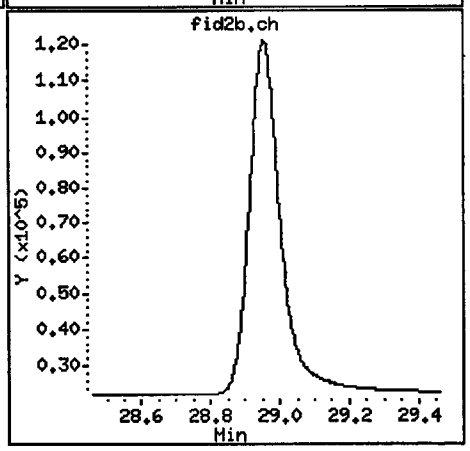


* 21 Fluorobenzene



$ 39 4-bromofluorobenzene





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Report Date: 04-Oct-2002 12:30

PEL Laboratories, Inc.

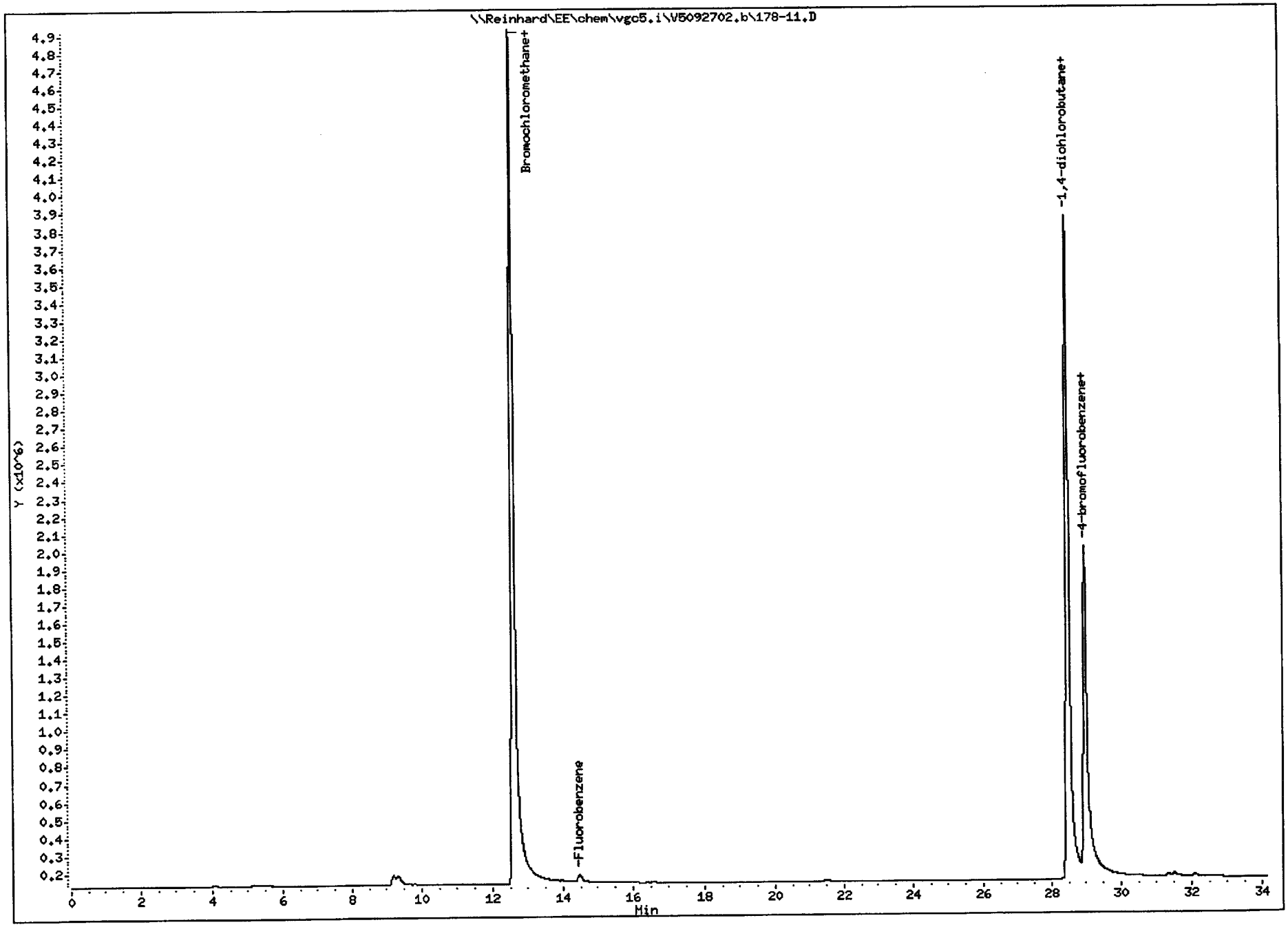
Data file : \\REINHARD\ee\chem\vgc5.i\V5092702.b\178-11.D
Lab Smp Id: 220917811 Client Smp ID: 062VEW5Q302
Inj Date : 27-SEP-2002 21:52
Operator : EB Inst ID: vgc5.i
Smp Info : 220917811
Misc Info :
Comment :
Method : \\Reinhard\ee\chem\vgc5.i\V5092702.b\8021.m
Meth Date : 04-Oct-2002 12:29 mjacobs Quant Type: ISTD
Cal Date : 07-SEP-2002 19:18 Cal File: 100PPB.D
Als bottle: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: mbtexrl.sub
Target Version: 4.04
Processing Host: REINHARD

Concentration Formula: Amt * DF * Vf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	Final Volume
Vo	5.000	Sample Volume

Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 21 Fluorobenzene	FID2B	14.436	14.436	(1.000)	529134	30.0000	
$ 39 4-bromofluorobenzene	FID2B	28.956	28.956	(2.006)	588668	27.7128	27.7

Data File: \\Reinhard\EE\chem\vgc5.i\V5092702.b\178-11.D



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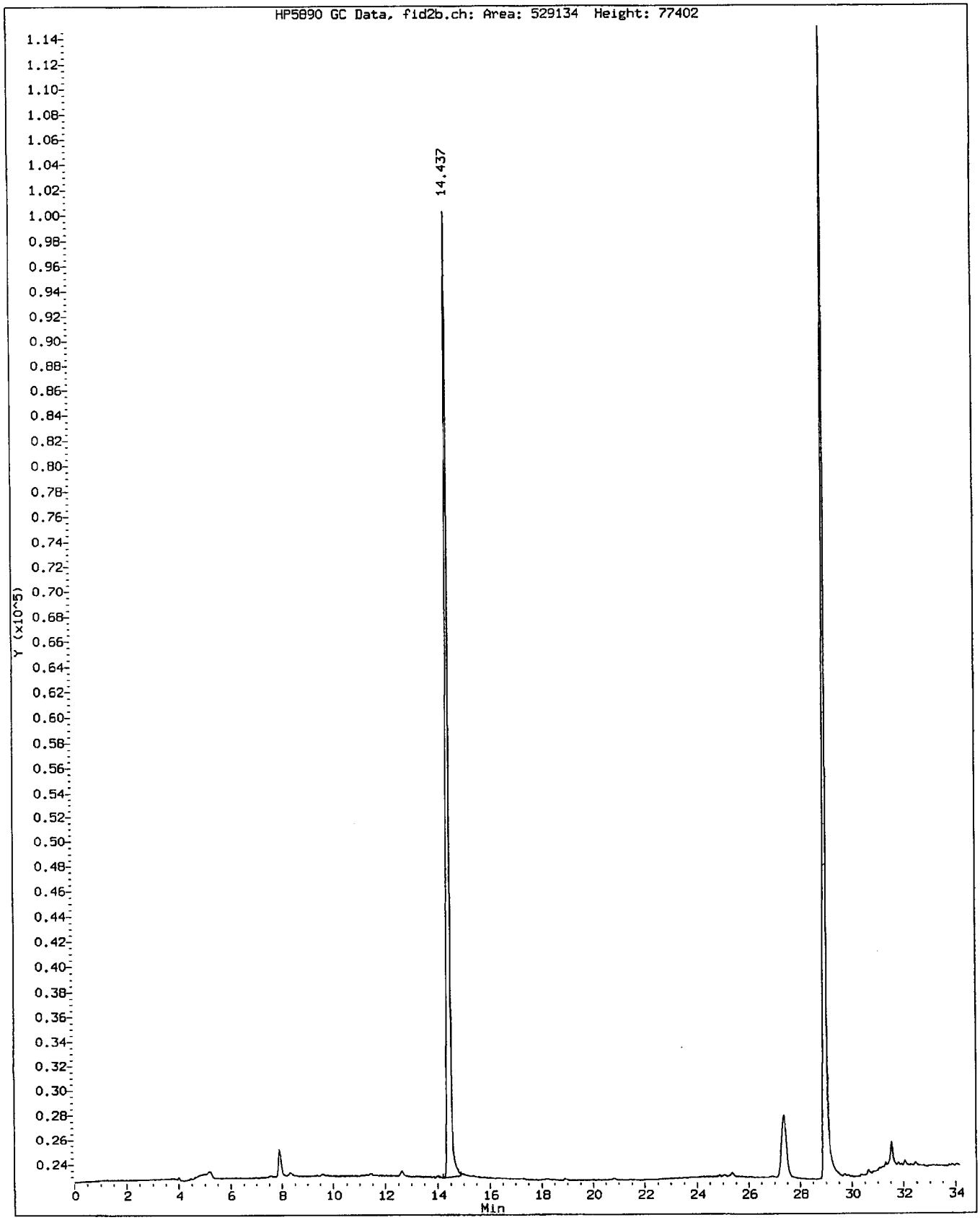
Injection Date: 27-SEP-2002 21:52
Instrument: vgc5.i
Client Sample ID: 062VEW5Q302

Compound: Fluorobenzene
CAS Number: 462-06-6



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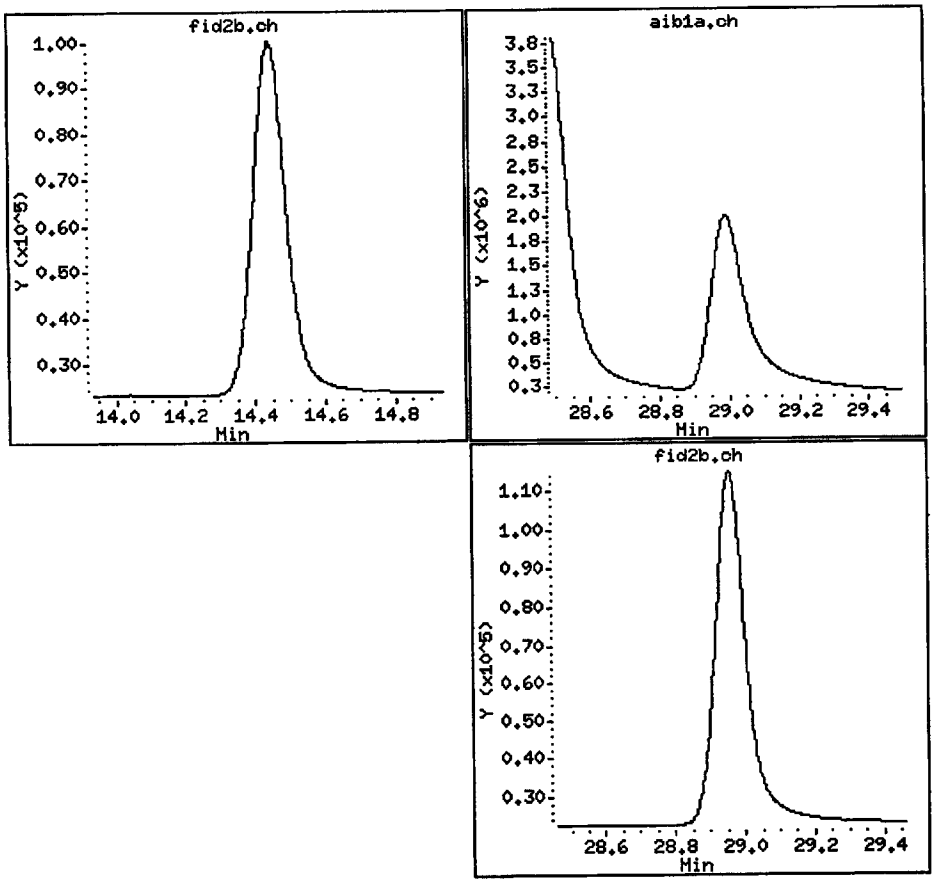
* 21 Fluorobenzene

$ 39 4-bromofluorobenzene



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Report Date: 04-Oct-2002 12:30

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Data file : \\REINHARD\ee\chem\vgc5.i\V5092702.b\178-12.D
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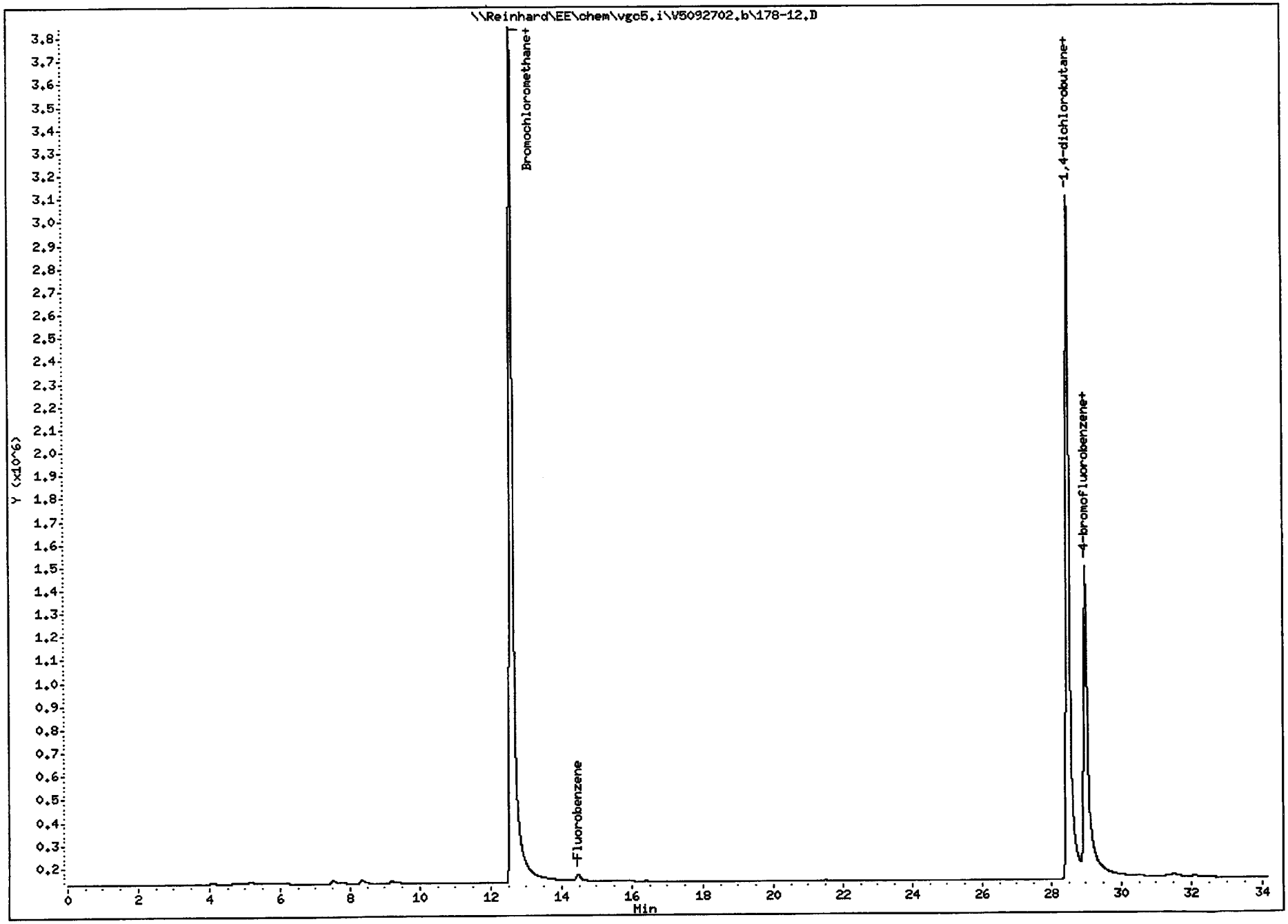
Inj Date : 27-SEP-2002 22:34
Operator : EB Inst ID: vgc5.i
Smp Info : 220917812
Misc Info :
Comment :
Method : \\Reinhard\ee\chem\vgc5.i\V5092702.b\8021.m
Meth Date : 04-Oct-2002 12:29 mjacobs Quant Type: ISTD
Cal Date : 07-SEP-2002 19:18 Cal File: 100PPB.D
Als bottle: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: mbtexrl.sub
Target Version: 4.04
Processing Host: REINHARD

Concentration Formula: Amt * DF * Vf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	Final Volume
Vo	5.000	Sample Volume

Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 21 Fluorobenzene	FID2B	14.433	14.436	(1.000)	372953	30.0000	
$ 39 4-bromofluorobenzene	FID2B	28.963	28.956	(2.007)	419330	28.0077	28.0

Data File: \\Reinhard\EE\chem\vgc5.i\V5092702.b\178-12.D



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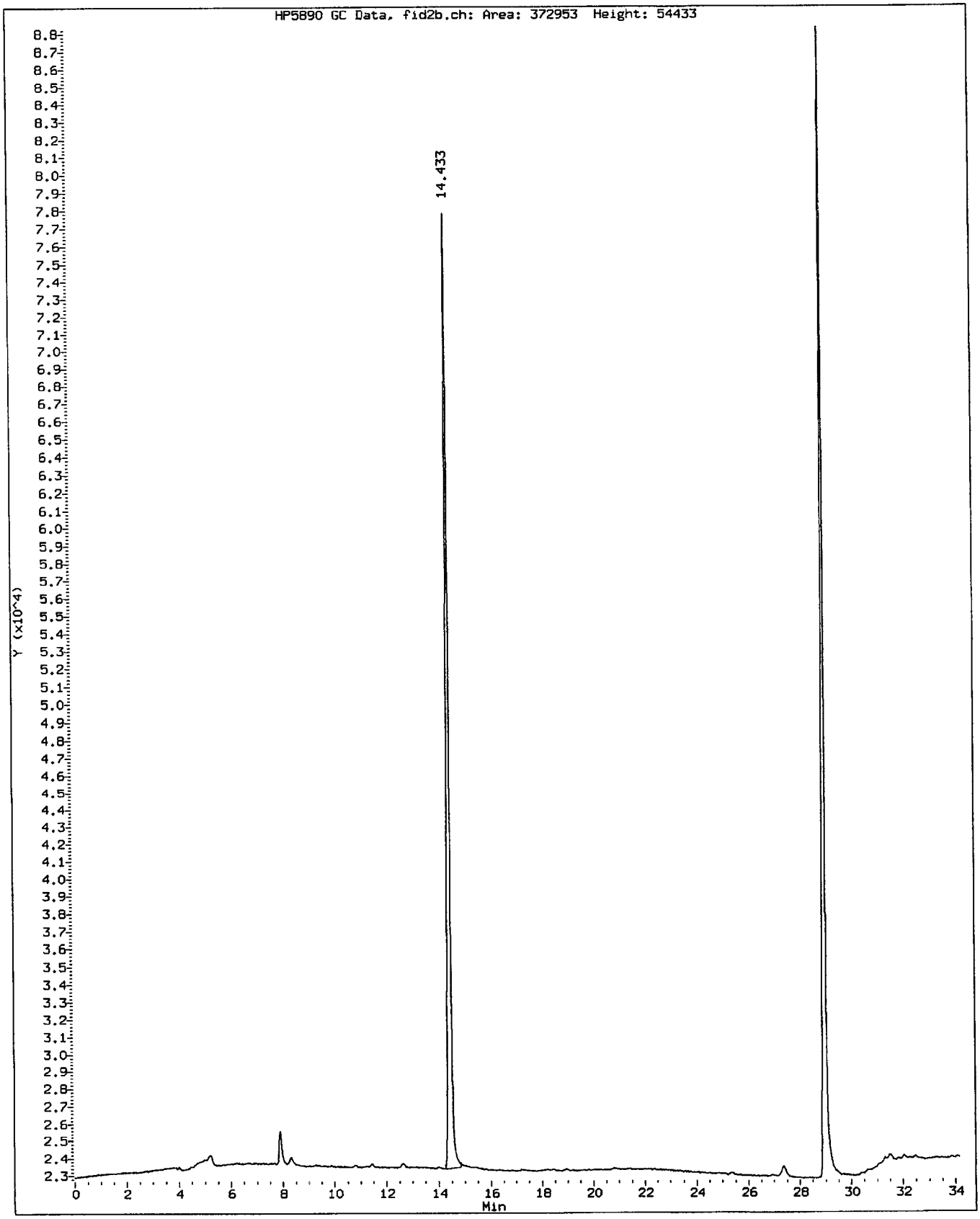
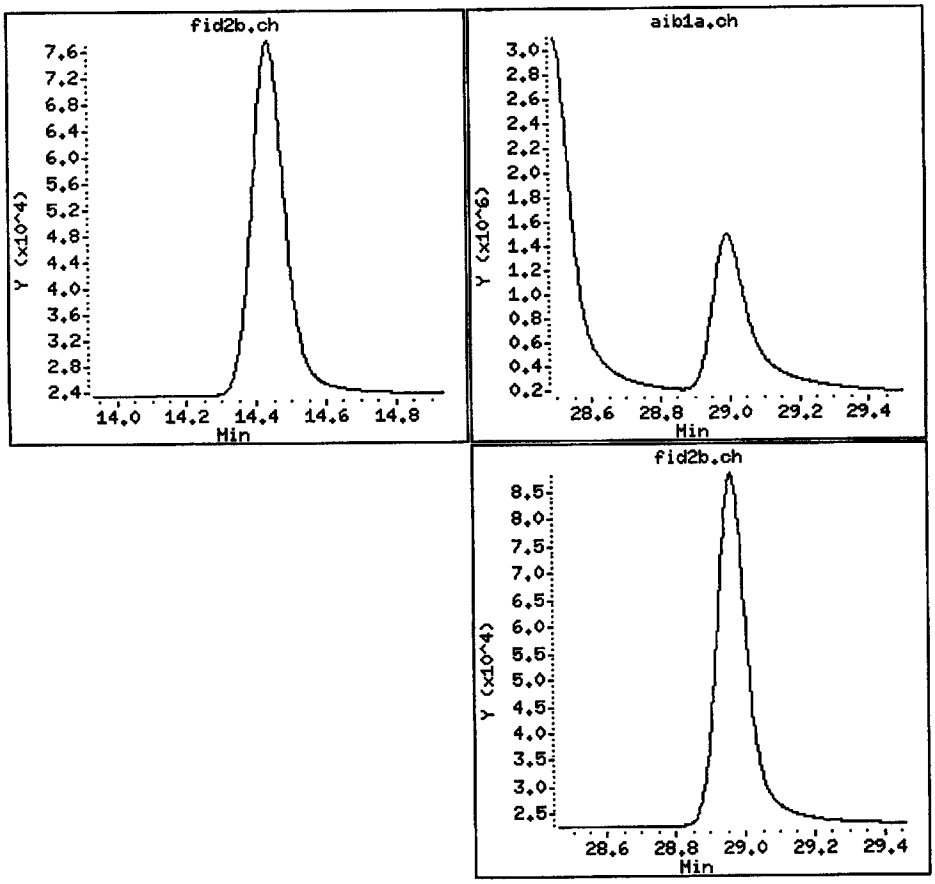
Injection Date: 27-SEP-2002 22:34
Instrument: vgc5.i
Client Sample ID: 062VEW6Q302

Compound: Fluorobenzene
CAS Number: 462-06-6



× 21 Fluorobenzene

$ 39 4-bromofluorobenzene



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Report Date: 04-Oct-2002 12:30

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Data file : \\REINHARD\ee\chem\vgc5.i\V5092702.b\178-14.D
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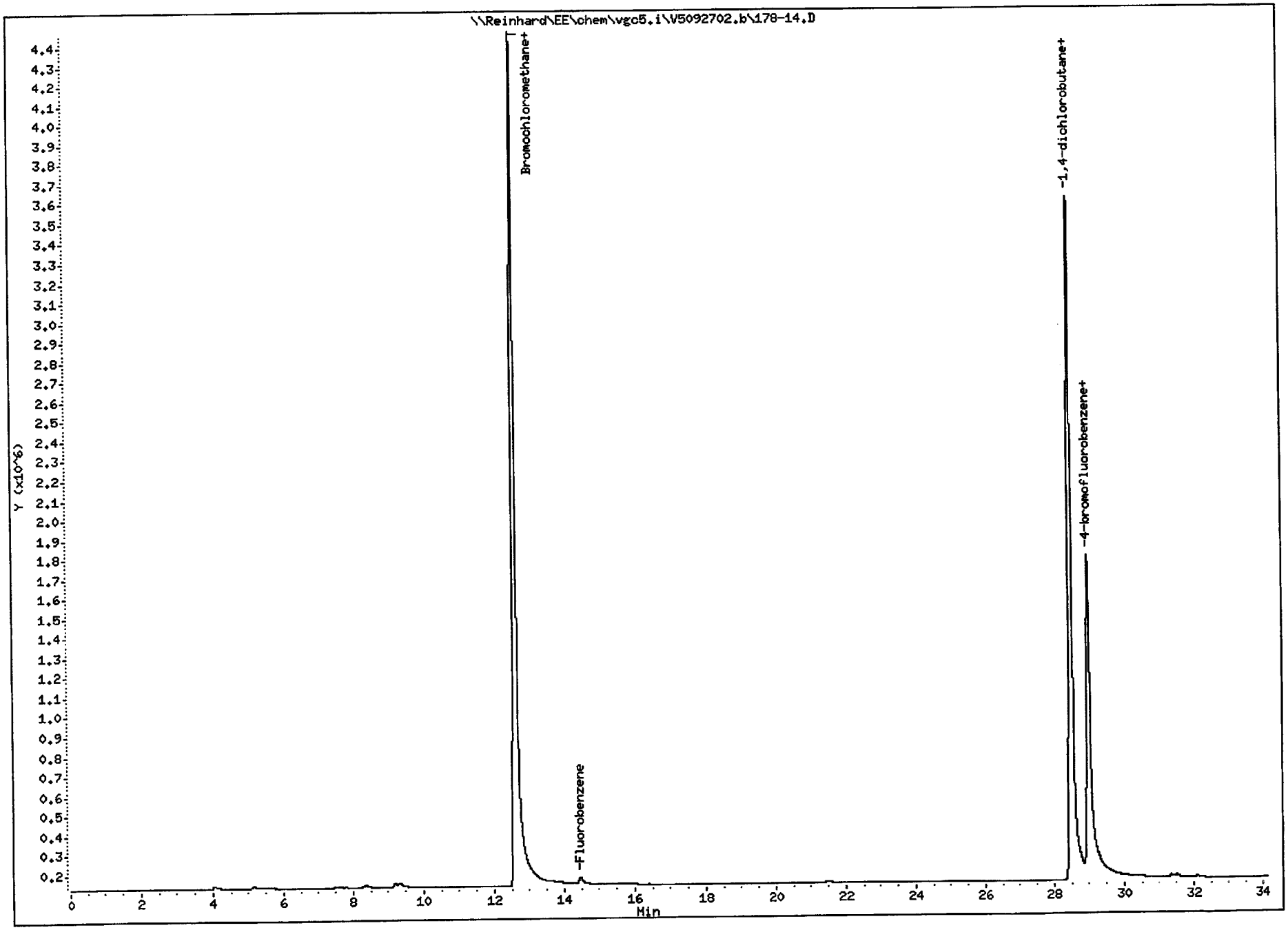
Inj Date : 28-SEP-2002 00:00
Operator : EB Inst ID: vgc5.i
Smp Info : 220917814
Misc Info :
Comment :
Method : \\Reinhard\ee\chem\vgc5.i\V5092702.b\8021.m
Meth Date : 04-Oct-2002 12:29 mjacobs Quant Type: ISTD
Cal Date : 07-SEP-2002 19:18 Cal File: 100PPB.D
Als bottle: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: mbtexrl.sub
Target Version: 4.04
Processing Host: REINHARD

Concentration Formula: Amt * DF * Vf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	Final Volume
Vo	5.000	Sample Volume

Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 21 Fluorobenzene	FID2B	14.440	14.436	(1.000)	445776	30.0000	
$ 39 4-bromofluorobenzene	FID2B	28.960	28.956	(2.006)	524611	29.3154	29.3

Data File: \\Reinhard\EE\chem\vgc5.i\V5092702.b\178-14.D



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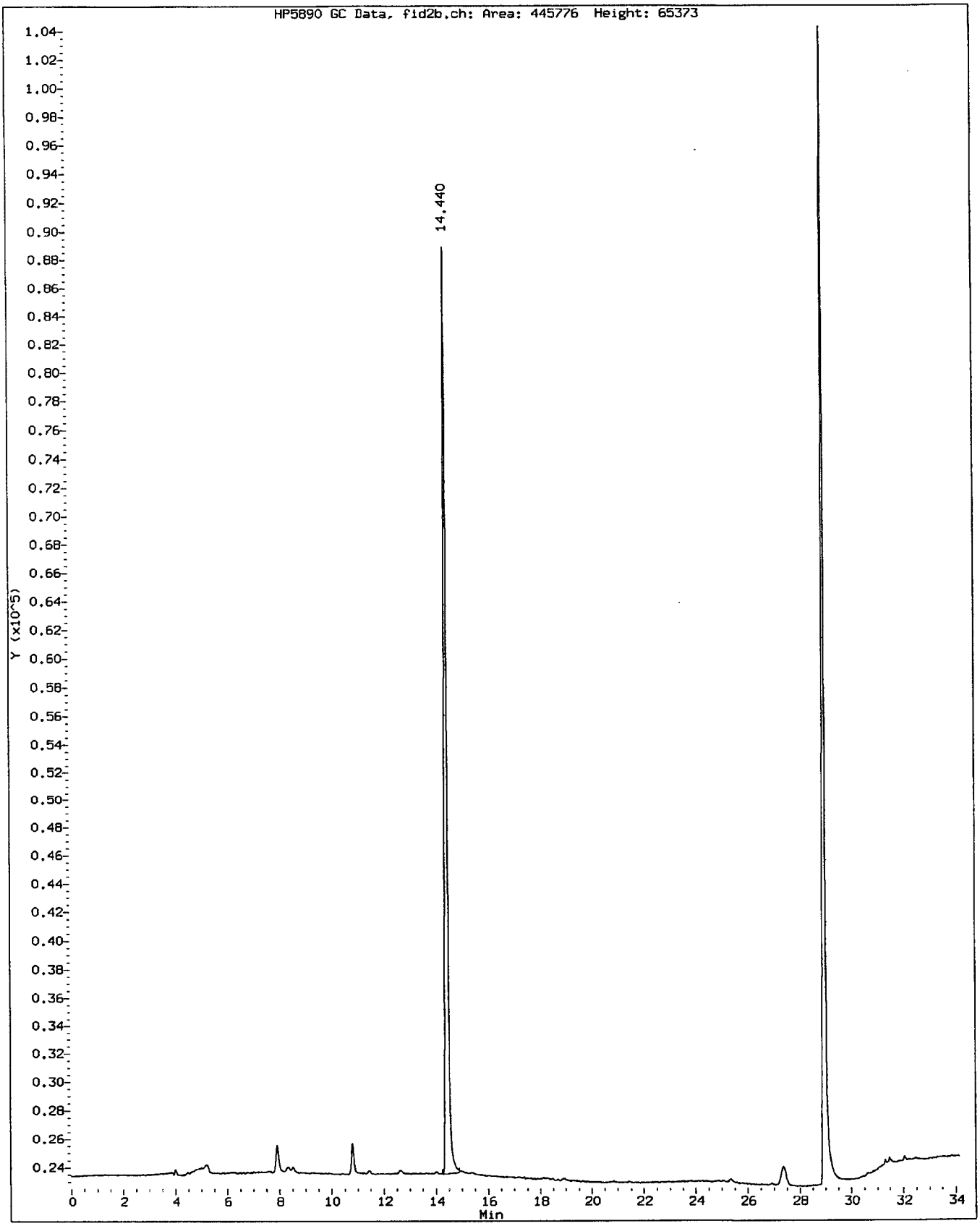
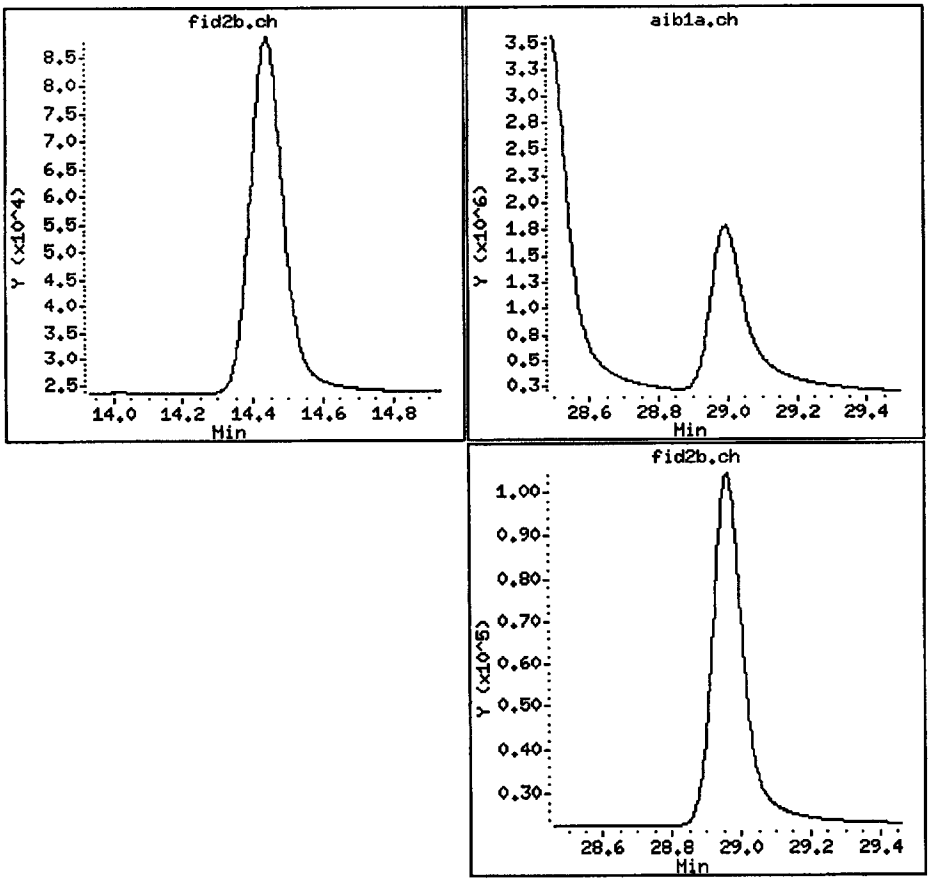
Injection Date: 28-SEP-2002 00:00
Instrument: vgc5.i
Client Sample ID: 062VEW8Q302

Compound: Fluorobenzene
CAS Number: 462-06-6



* 21 Fluorobenzene

$ 39 4-bromofluorobenzene



Data File: \\REINHARD\ee\chem\vgc5.i\V5092702.b\CCV56.D
Report Date: 04-Oct-2002 12:31

PEL Laboratories, Inc.

Data file : \\REINHARD\ee\chem\vgc5.i\V5092702.b\CCV56.D
Lab Smp Id: 092602CCVA56 Client Smp ID: 092602CCVA56
Inj Date : 28-SEP-2002 02:08
Operator : EB Inst ID: vgc5.i
Smp Info : 092602CCVA56
Misc Info :
Comment :
Method : \\Reinhard\ee\chem\vgc5.i\V5092702.b\8021.m
Meth Date : 04-Oct-2002 12:31 mjacobs Quant Type: ISTD
Cal Date : 07-SEP-2002 19:18 Cal File: 100PPB.D
Als bottle: 9 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8021rl.sub
Target Version: 4.04
Processing Host: REINHARD

Concentration Formula: Amt * DF * Vf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	Final Volume
Vo	5.000	Sample Volume

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
	1 dichlorodifluoromethane	AIB1A	4.603	4.603	(0.366)	24981936	30.0000	32.3
	2 chloromethane	AIB1A	5.140	5.140	(0.408)	10450209	30.0000	30.1
	3 vinyl chloride	AIB1A	5.433	5.433	(0.432)	25238754	30.0000	34.0
	4 bromomethane	AIB1A	6.383	6.383	(0.507)	18186753	30.0000	38.1
	5 chloroethane	AIB1A	6.573	6.573	(0.522)	41559646	30.0000	33.4
	6 trichlorofluoromethane	AIB1A	7.060	7.060	(0.561)	41144498	30.0000	32.0
	8 1,1-dichloroethene	AIB1A	8.323	8.323	(0.661)	56723902	30.0000	29.6
	9 methylene chloride	AIB1A	9.170	9.170	(0.729)	68926932	30.0000	30.9(M)
	10 MTBE	FID2B	9.440	9.440	(0.654)	327677	30.0000	35.6
	11 trans 1,2-dichloroethene	AIB1A	9.780	9.780	(0.777)	52028358	30.0000	29.2
	13 1,1-dichloroethane	AIB1A	10.636	10.636	(0.845)	53066122	30.0000	29.8
	14 cis-1,2-dichloroethene	AIB1A	11.893	11.893	(0.945)	49814849	30.0000	30.1
M	12 1,2-Dichloroethene (tot)	AIB1A				101843207	60.0000	59.3
	15 chloroform	AIB1A	12.223	12.223	(0.971)	62082441	30.0000	29.5
*	16 Bromochloromethane	AIB1A	12.586	12.586	(1.000)	36466449	30.0000	
	17 1,1,1-trichloroethane	AIB1A	13.096	13.096	(1.041)	53343829	30.0000	27.9

Data File: \\REINHARD\ee\chem\vgc5.i\V5092702.b\CCV56.D
Report Date: 04-Oct-2002 12:31

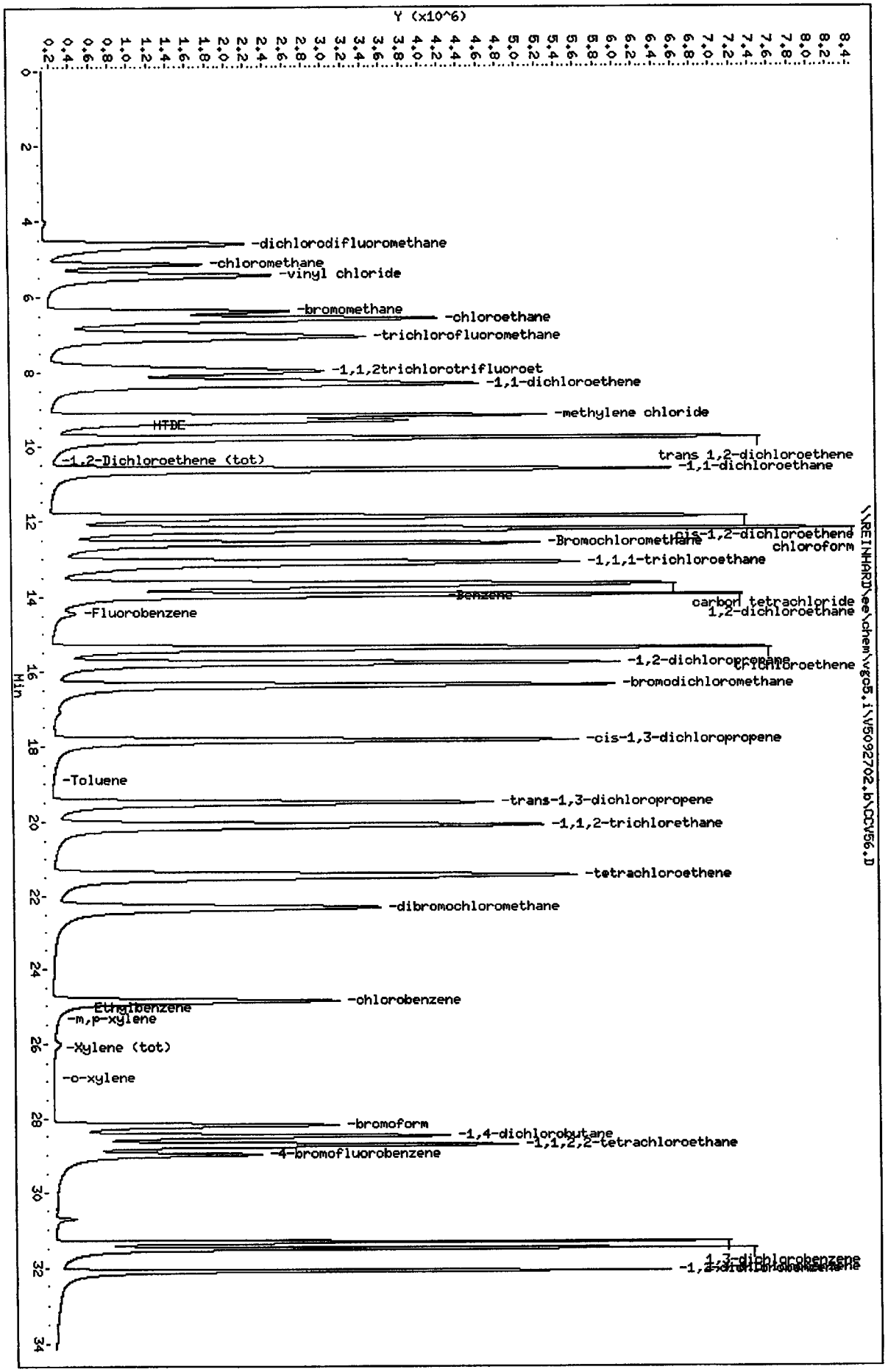
	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
	18 carbon tetrachloride	AIB1A	13.670	13.670	(1.086)	58905159	30.0000	27.4
	19 1,2-dichloroethane	AIB1A	13.950	13.950	(1.108)	50632277	30.0000	29.2
	20 Benzene	FID2B	14.003	14.003	(0.970)	865328	30.0000	32.9
*	21 Fluorobenzene	FID2B	14.433	14.433	(1.000)	545220	30.0000	
	22 trichloroethene	AIB1A	15.373	15.373	(1.221)	54369102	30.0000	27.5
	23 1,2-dichloropropane	AIB1A	15.783	15.783	(1.254)	45390933	30.0000	29.1
	24 bromodichloromethane	AIB1A	16.380	16.380	(1.301)	47439646	30.0000	31.8
	25 cis-1,3-dichloropropene	AIB1A	17.856	17.856	(1.419)	45055196	30.0000	30.3
	26 Toluene	FID2B	18.920	18.920	(1.311)	796786	30.0000	34.4
	27 trans-1,3-dichloropropene	AIB1A	19.500	19.500	(1.549)	39932270	30.0000	30.9
	28 1,1,2-trichlorethane	AIB1A	20.103	20.103	(1.597)	49309480	30.0000	30.7
	29 tetrachloroethene	AIB1A	21.456	21.456	(1.705)	62824070	30.0000	28.2
	30 dibromochloromethane	AIB1A	22.323	22.323	(1.774)	37347584	30.0000	34.8
	31 chlorobenzene	AIB1A	24.873	24.873	(1.976)	26791685	30.0000	32.7
	32 Ethylbenzene	FID2B	25.050	25.050	(1.736)	727661	30.0000	33.4
	33 m,p-xylene	FID2B	25.346	25.346	(1.756)	1571496	60.0000	66.7
	35 o-xylene	FID2B	26.923	26.923	(1.865)	650987	30.0000	33.0
	36 bromoform	AIB1A	28.186	28.186	(2.239)	22513842	30.0000	39.4
M	34 Xylene (tot)	FID2B				2222483	90.0000	99.6
$	37 1,4-dichlorobutane	AIB1A	28.486	28.486	(2.263)	29017604	30.0000	27.6
	38 1,1,2,2-tetrachloroethane	AIB1A	28.733	28.733	(2.283)	33640867	30.0000	30.6
$	39 4-bromofluorobenzene	FID2B	28.960	28.960	(2.006)	632850	30.0000	28.9
	40 1,3-dichlorobenzene	AIB1A	31.330	31.330	(2.489)	27703248	30.0000	29.6
	41 1,4-dichlorobenzene	AIB1A	31.496	31.496	(2.502)	33613946	30.0000	27.9
	42 1,2-dichlorobenzene	AIB1A	32.083	32.083	(2.549)	28258333	30.0000	28.4

QC Flag Legend

M - Compound response manually integrated.

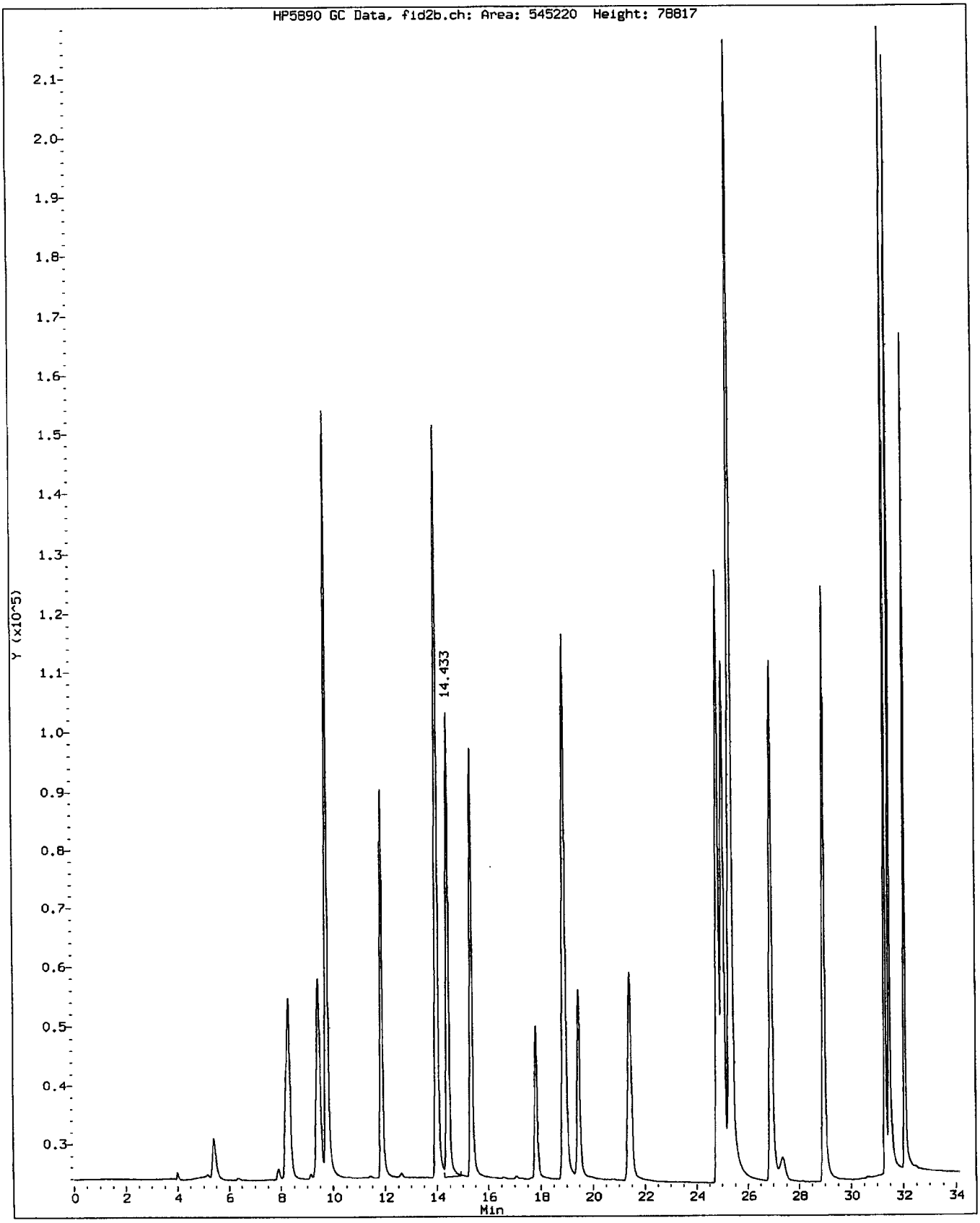
Data File: \\REINHARD\ee\chem\vgc5.i\V5092702.b\CCV56.D
Date : 28-SEP-2002 02:08
Client ID: 092602CCVA56
Sample Info: 092602CCVA56
Purge Volume: 5.0
Column phase: RTX 502.2

Instrument: vgc5.i
Operator: EB
Column diameter: 0.53



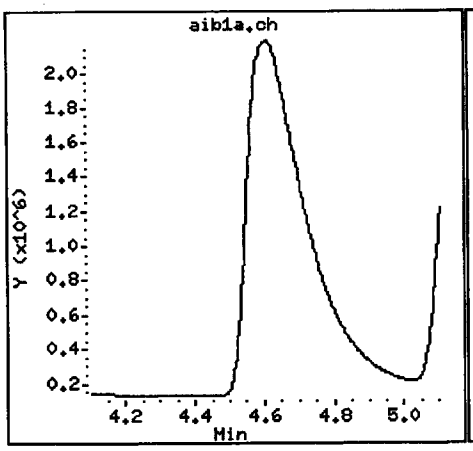
Data File: \\REINHARD\ee\chem\vgc5.i\V5092702.b\CCV56.D
Injection Date: 28-SEP-2002 02:08
Instrument: vgc5.i
Client Sample ID: 092602CCVA56

Compound: Fluorobenzene
CAS Number: 462-06-6

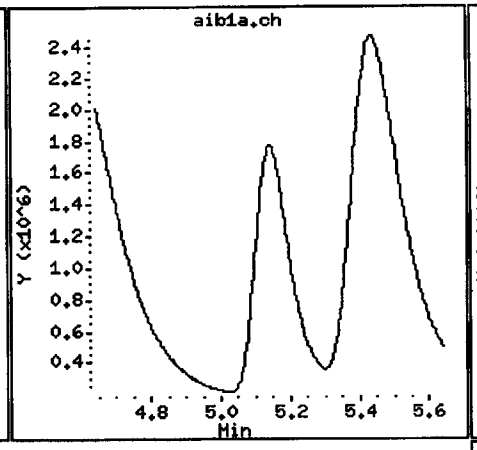


Data File: \\Reinhard\EE\chem\vgc5.i\V5092702.b\CCV56.D

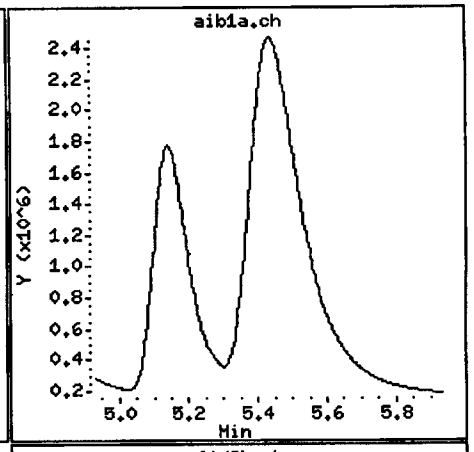
1 dichlorodifluoromethane

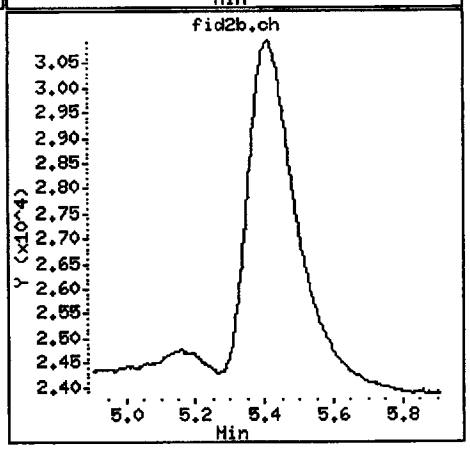


2 chloromethane



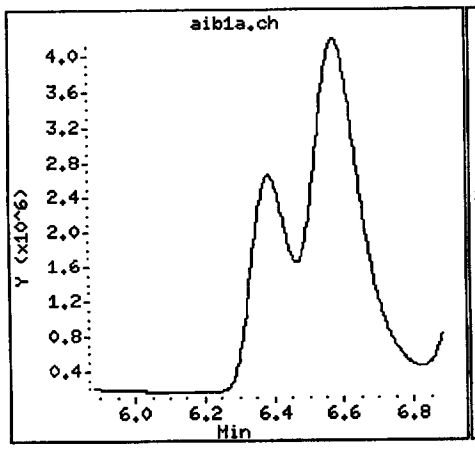
3 vinyl chloride



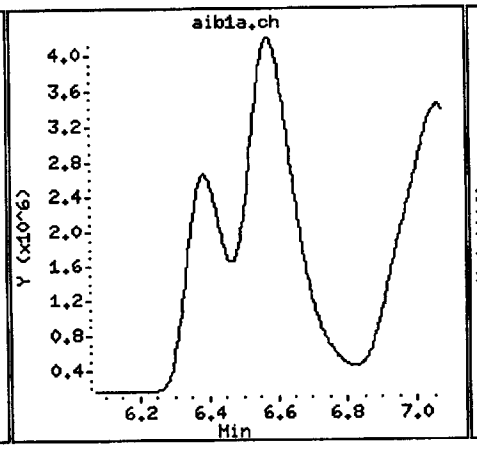


Data File: \\Reinhard\EE\chem\vgc5.i\V5092702.b\CCV56.D

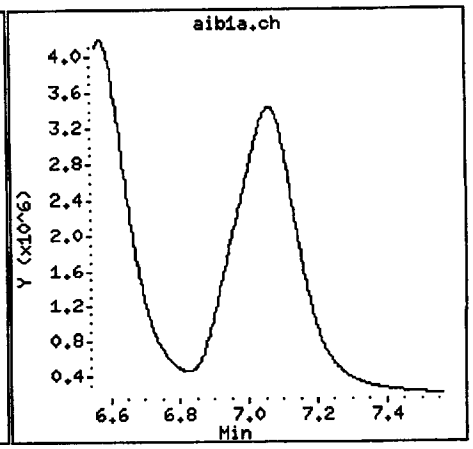
4 bromomethane



5 chloroethane

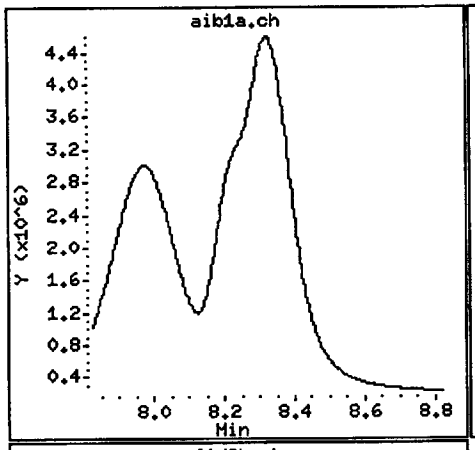


6 trichlorofluoromethane

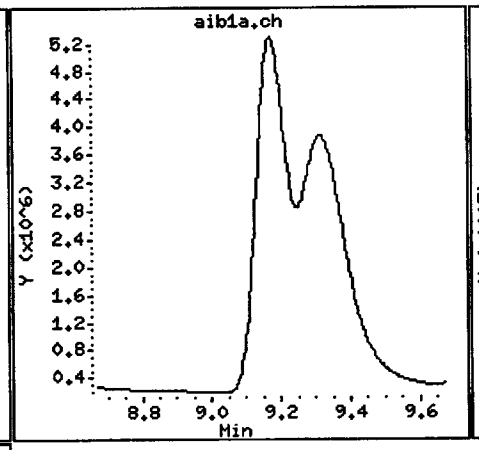


Data File: \\Reinhard\EE\chem\vgc5.i\V5092702.b\CCV56.D

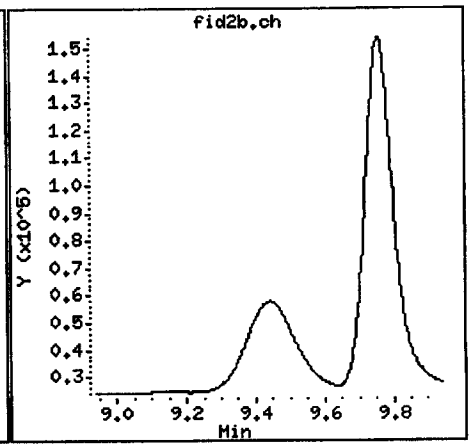
8 1,1-dichloroethene

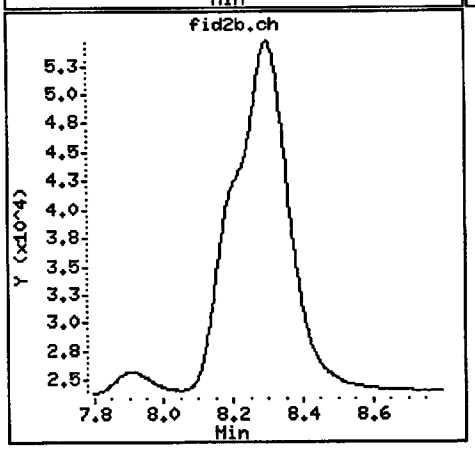


9 methylene chloride



10 MTBE





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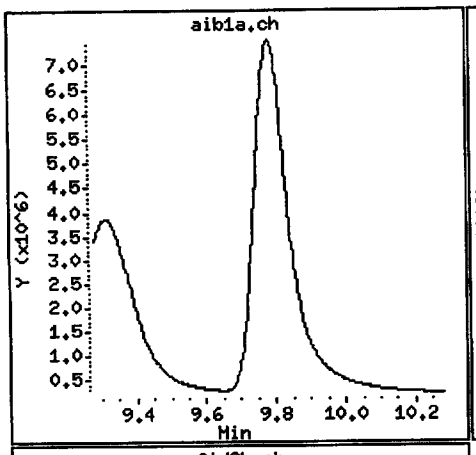
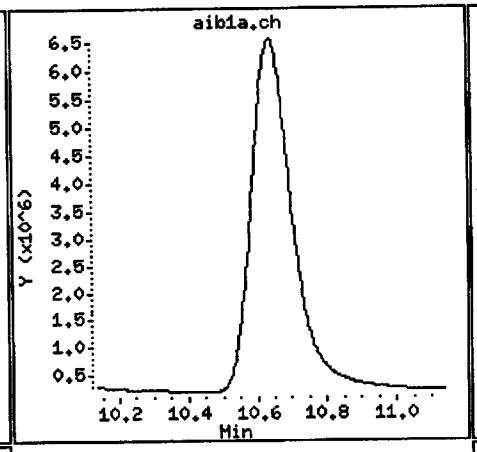
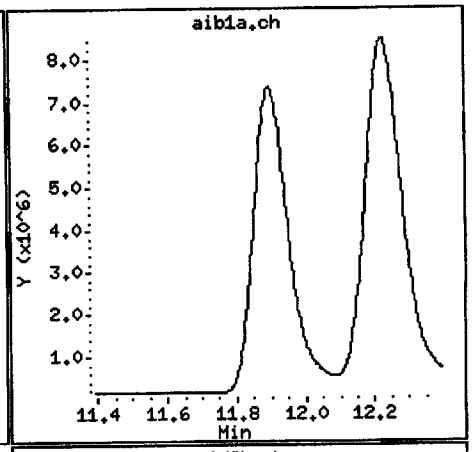
11 trans 1,2-dichloroethene

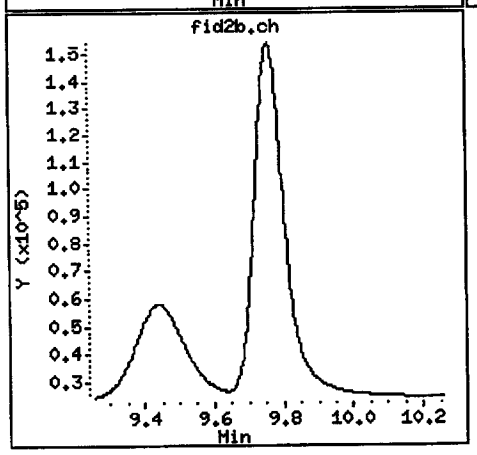


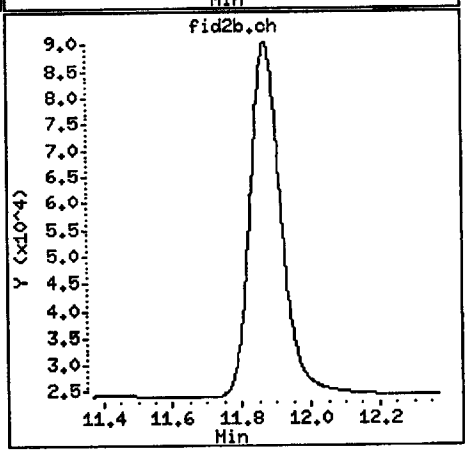
13 1,1-dichloroethane



14 cis-1,2-dichloroethene







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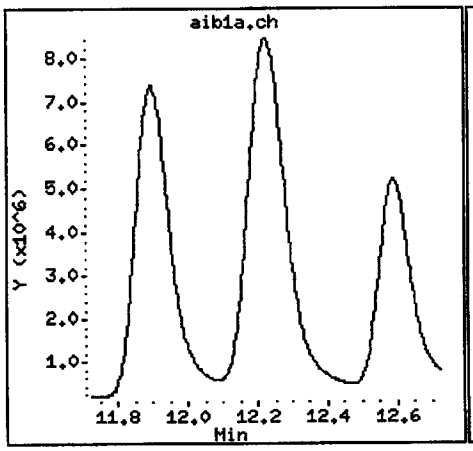
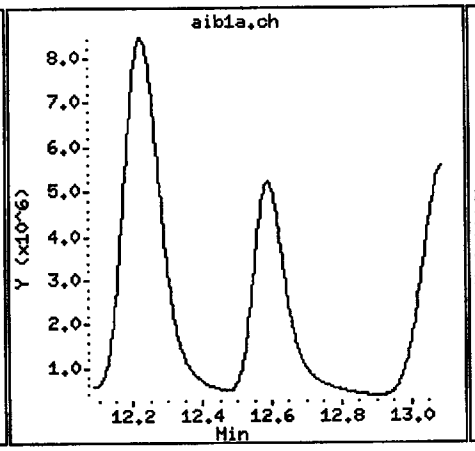
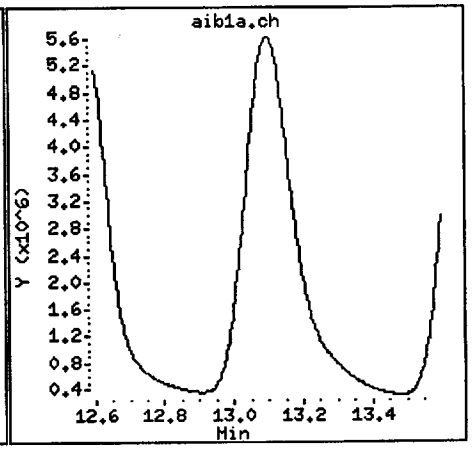
15 chloroform



* 16 Bromochloromethane



17 1,1,1-trichloroethane



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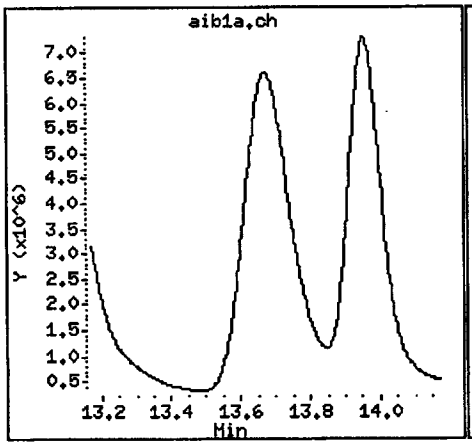
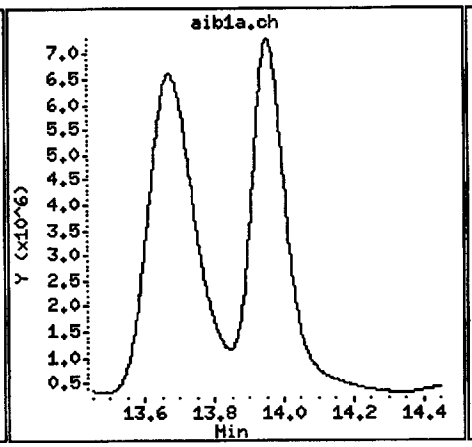
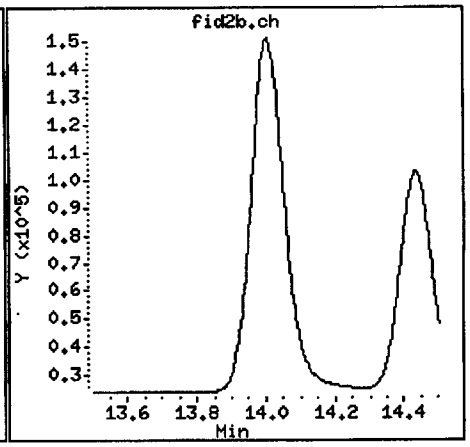
18 carbon tetrachloride



19 1,2-dichloroethane



20 Benzene



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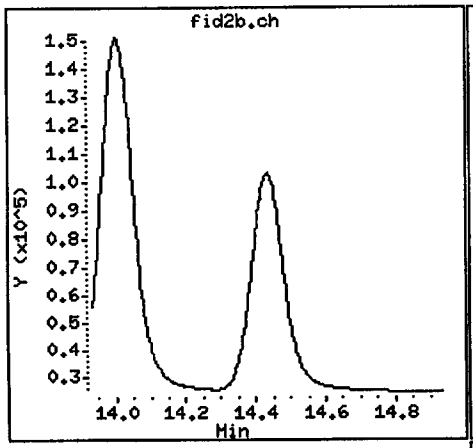
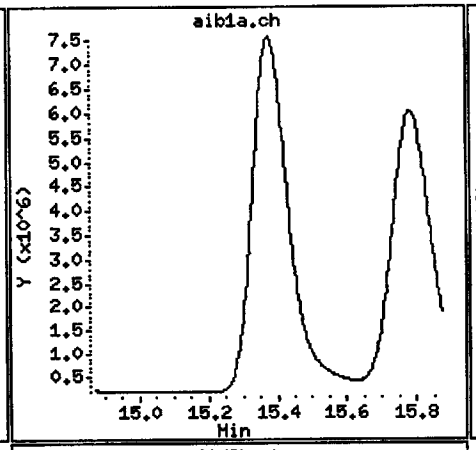
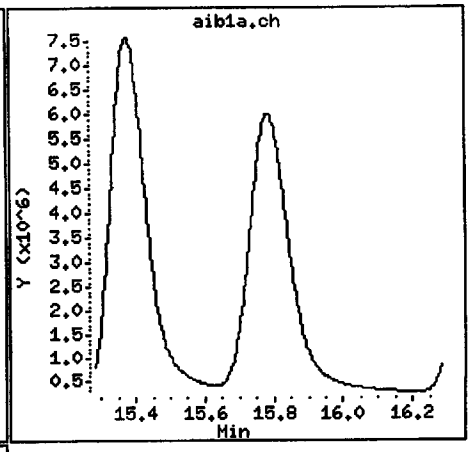
× 21 Fluorobenzene

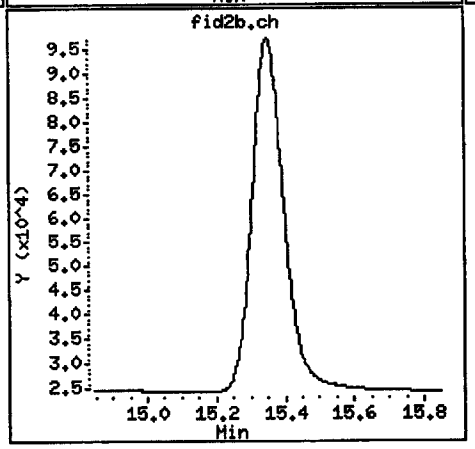


22 trichloroethene



23 1,2-dichloropropane





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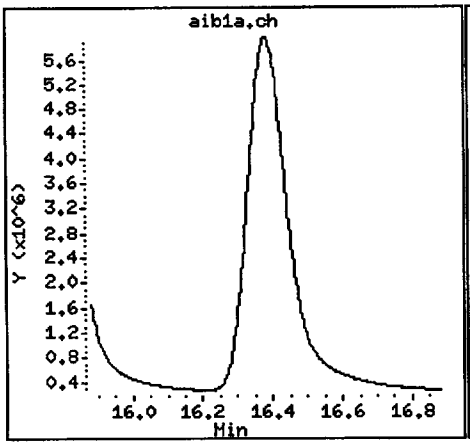
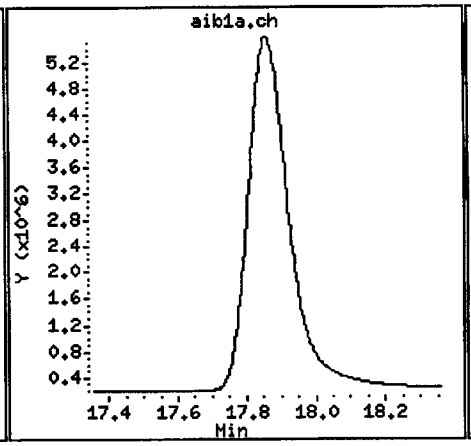
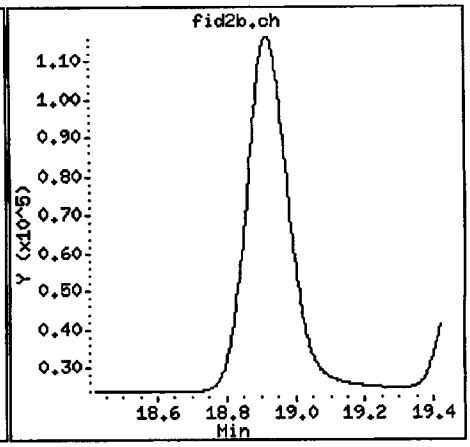
24 bromodichloromethane



25 cis-1,3-dichloropropene

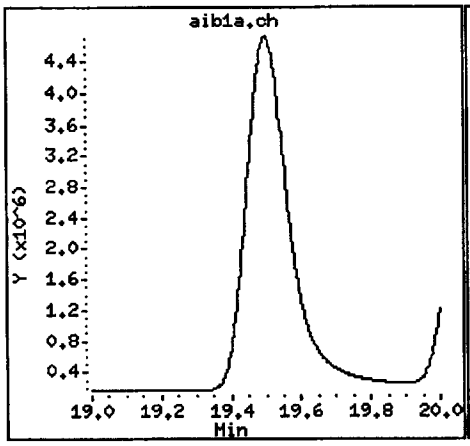


26 Toluene

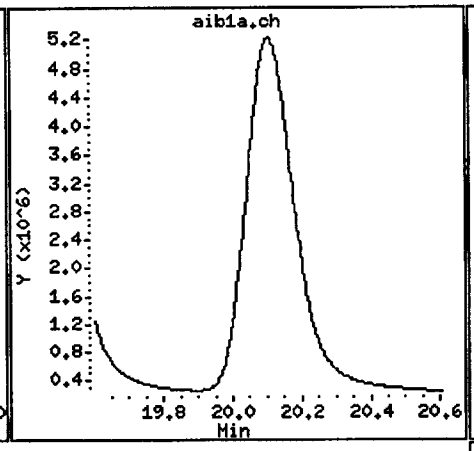


Data File: \\Reinhard\EE\chem\vgc5.i\W5092702.b\CCV56.D

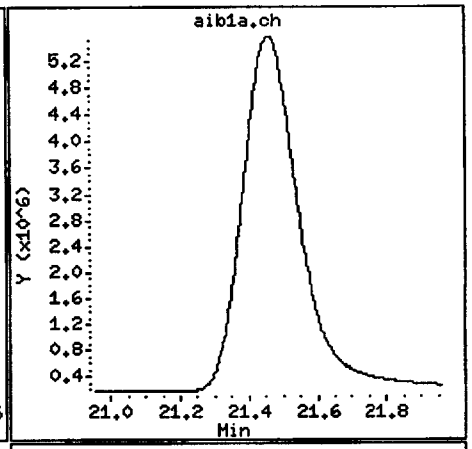
27 trans-1,3-dichloropropen

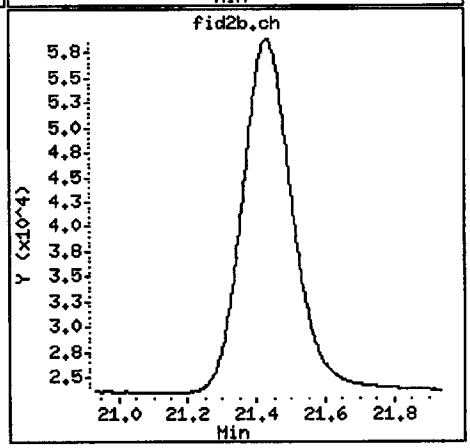


28 1,1,2-trichlorethane



29 tetrachloroethene





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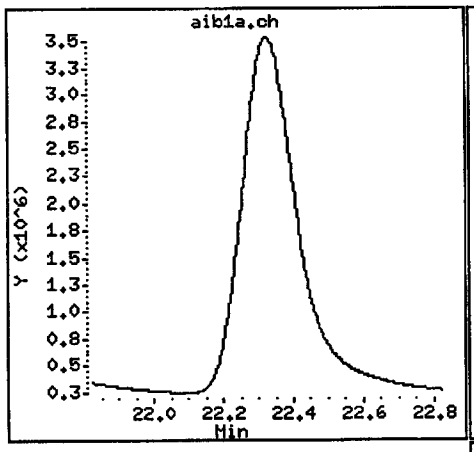
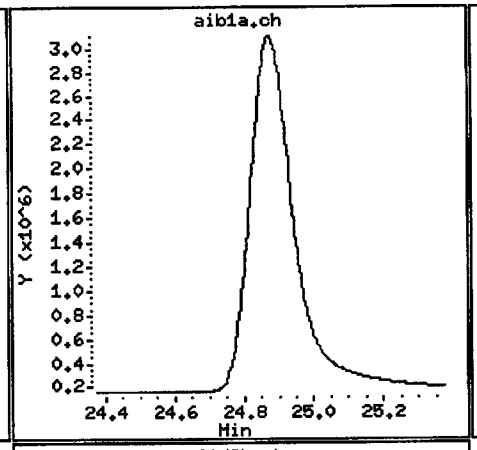
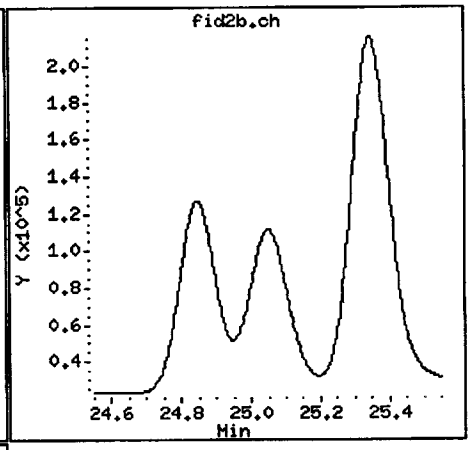
30 dibromochloromethane

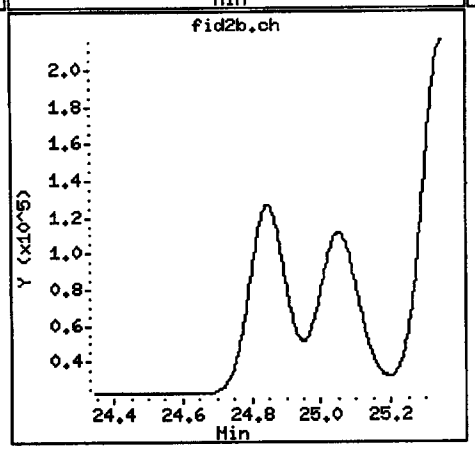


31 chlorobenzene



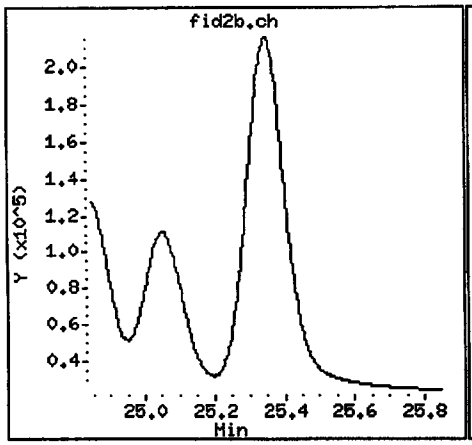
32 Ethylbenzene



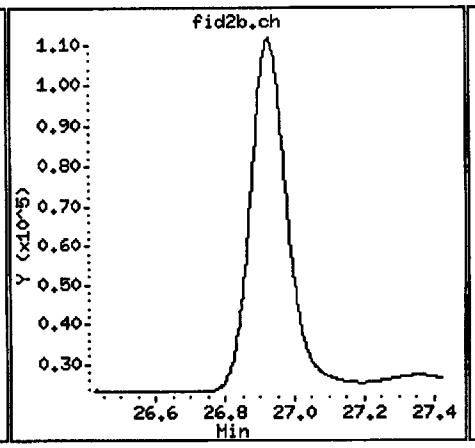


Data File: \\Reinhard\EE\chem\vgc5.i\V5092702.b\CCV56.D

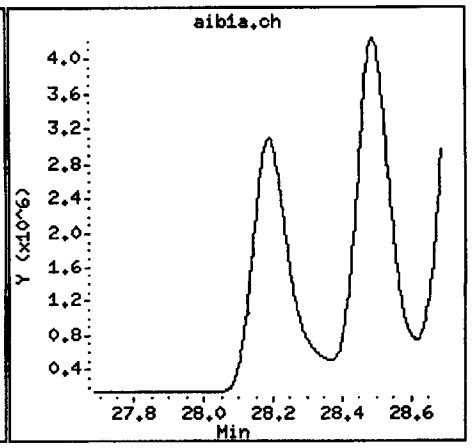
33 m,p-xylene



35 o-xylene



36 bromoform



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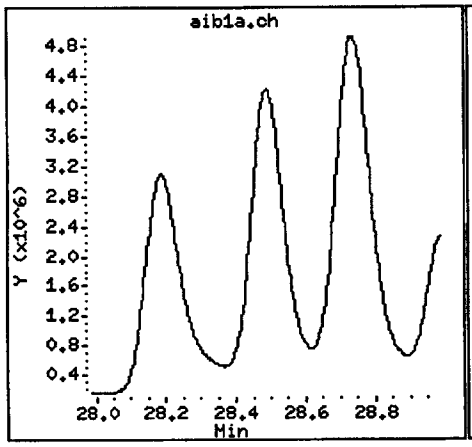
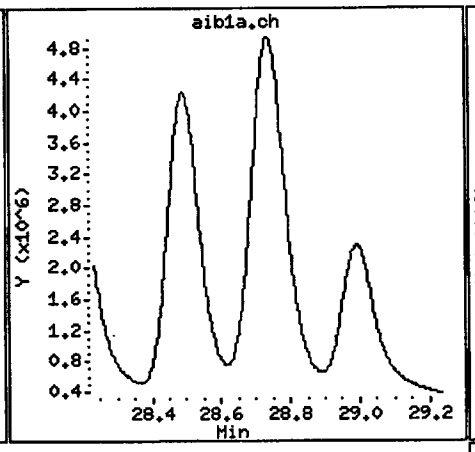
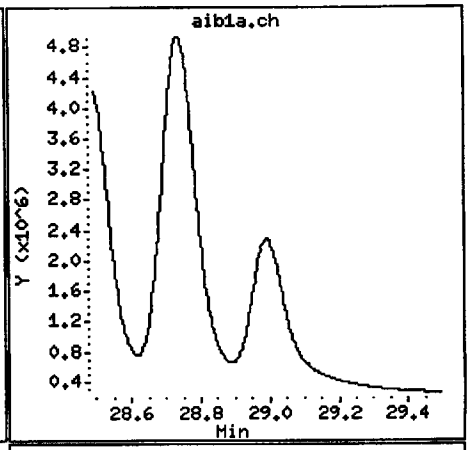
$ 37 1,4-dichlorobutane

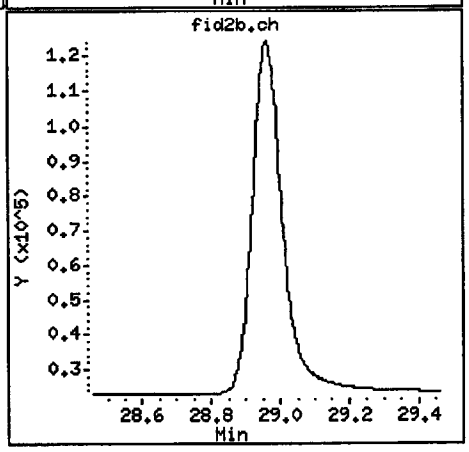


38 1,1,2,2-tetrachloroethan



$ 39 4-bromofluorobenzene





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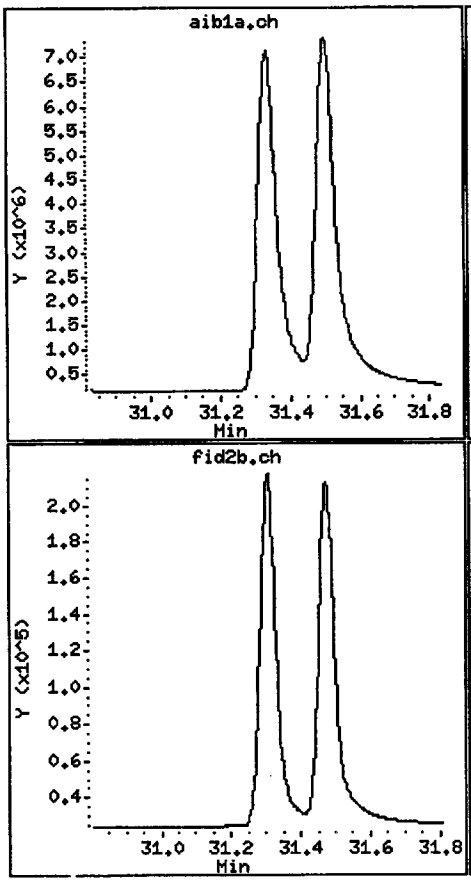
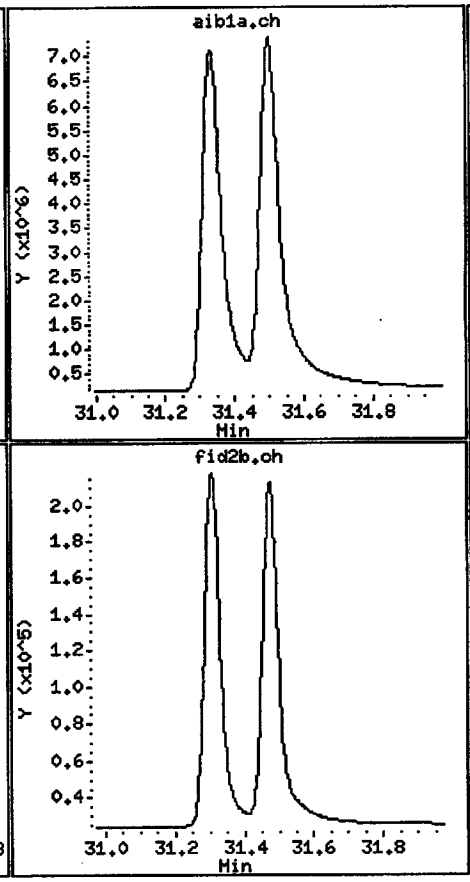
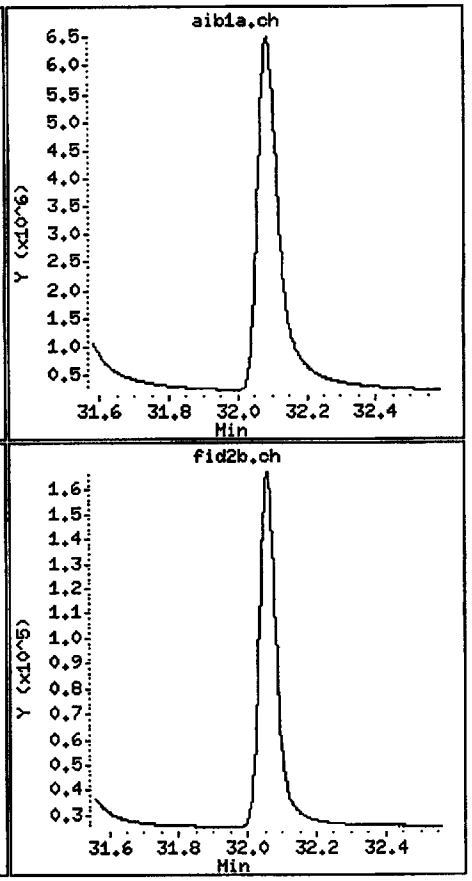
40 1,3-dichlorobenzene



41 1,4-dichlorobenzene



42 1,2-dichlorobenzene



Data File: \\REINHARD\ee\chem\vgc5.i\V5092802.b\CCV52.D
Report Date: 04-Oct-2002 12:49

PEL Laboratories, Inc.

Data file : \\REINHARD\ee\chem\vgc5.i\V5092802.b\CCV52.D
Lab Smp Id: 092802CCVA52 Client Smp ID: 092802CCVA52
Inj Date : 28-SEP-2002 11:26
Operator : EB Inst ID: vgc5.i
Smp Info : 092802CCVA52
Misc Info :
Comment :
Method : \\Reinhard\ee\chem\vgc5.i\V5092802.b\8021.m
Meth Date : 04-Oct-2002 12:49 mjacobs Quant Type: ISTD
Cal Date : 07-SEP-2002 19:18 Cal File: 100PPB.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: mbtexrl.sub
Target Version: 4.04
Processing Host: REINHARD

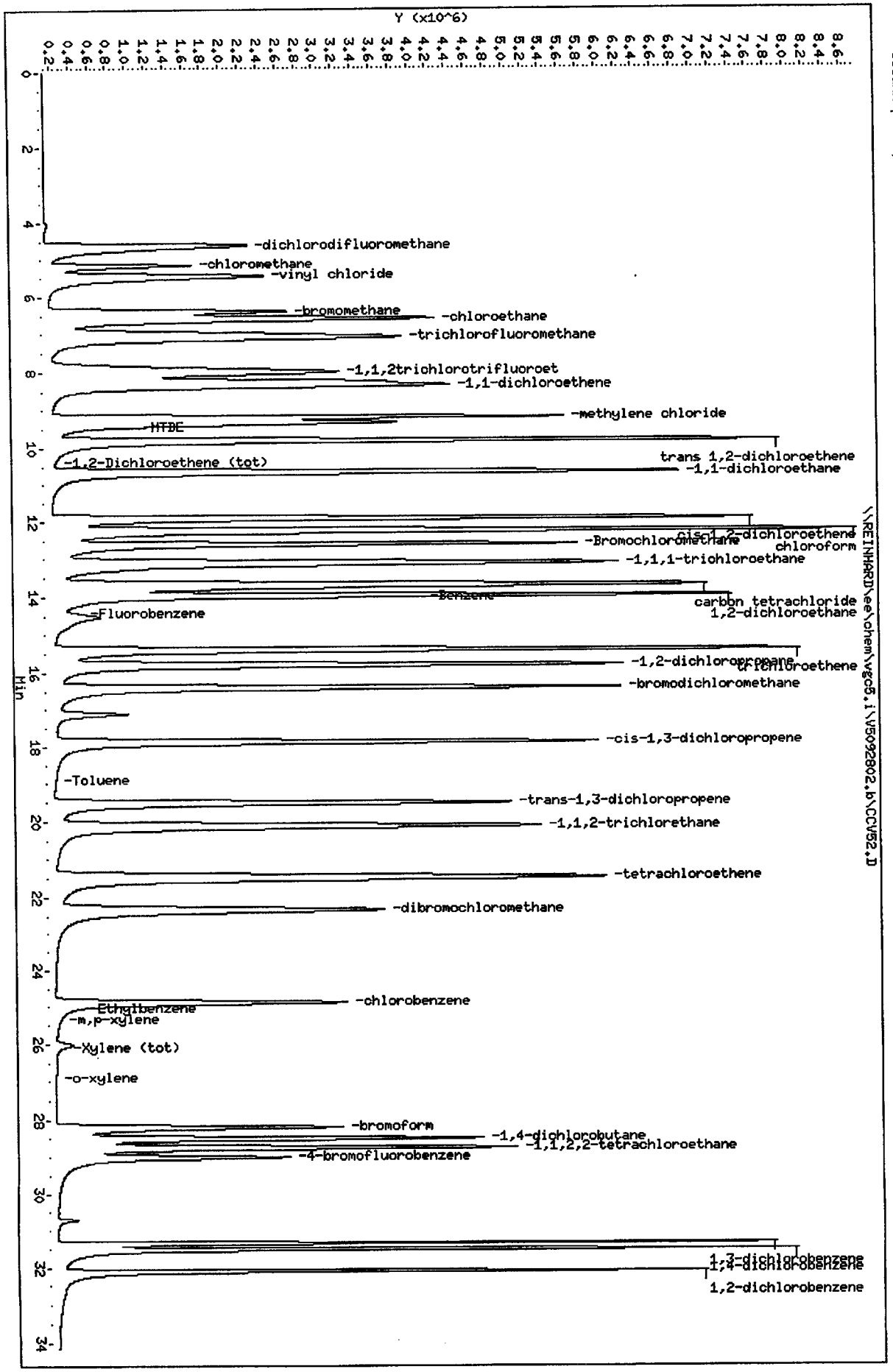
Concentration Formula: Amt * DF * Vf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	Final Volume
Vo	5.000	Sample Volume

Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
10 MTBE	FID2B	9.446	9.446	(0.654)	331910	30.0000	31.0
20 Benzene	FID2B	14.010	14.010	(0.970)	914413	30.0000	29.9
* 21 Fluorobenzene	FID2B	14.440	14.440	(1.000)	634044	30.0000	
26 Toluene	FID2B	18.930	18.930	(1.311)	847828	30.0000	31.4
32 Ethylbenzene	FID2B	25.060	25.060	(1.735)	780668	30.0000	30.8
33 m,p-xylene	FID2B	25.356	25.356	(1.756)	1684531	60.0000	61.4
35 o-xylene	FID2B	26.930	26.930	(1.865)	700387	30.0000	30.5
M 34 Xylene (tot)	FID2B				2384918	90.0000	92.0
$ 39 4-bromofluorobenzene	FID2B	28.966	28.966	(2.006)	734393	30.0000	28.8

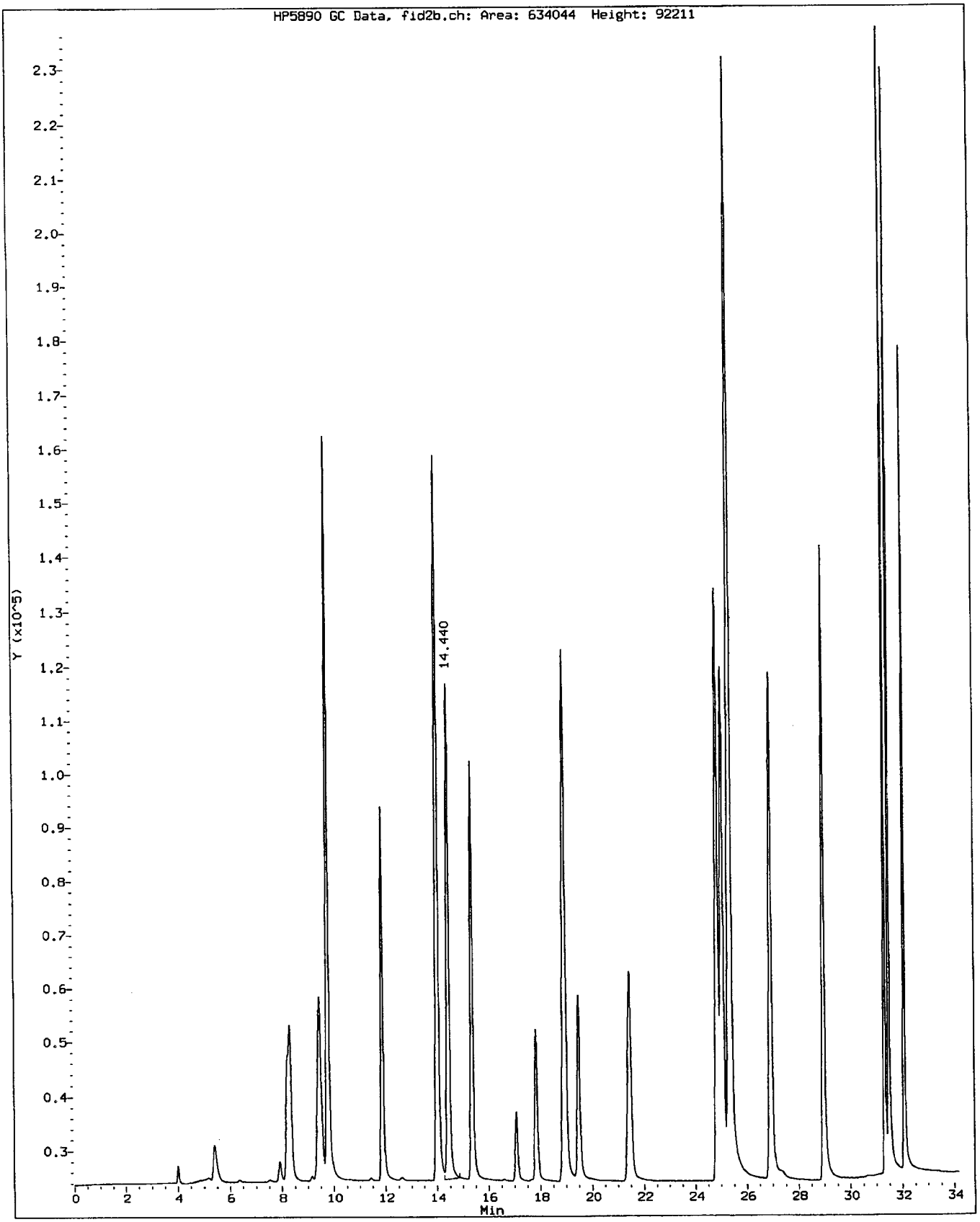
Data File: \\REINHARD\ee\chem\vgc5.i\V5092802.b\CCV52.D
Date : 28-SEP-2002 11:26
Client ID: 092802CCVA52
Sample Info: 092802CCVA52
Purge Volume: 5.0
Column phase: RTX 502.2

Instrument: vgc5.i
Operator: EB
Column diameter: 0.53



Data File: \\REINHARD\ee\chem\vgc5.i\V5092802.b\CCV52.D
Injection Date: 28-SEP-2002 11:26
Instrument: vgc5.i
Client Sample ID: 092802CCVA52

Compound: Fluorobenzene
CAS Number: 462-06-6



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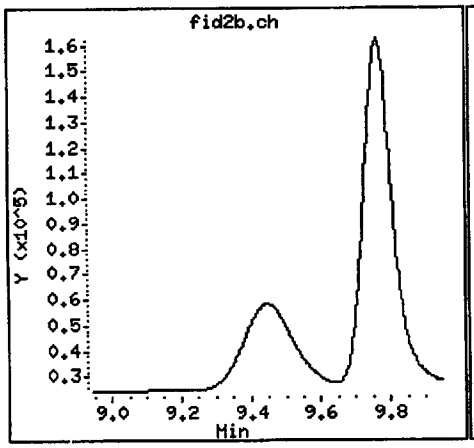
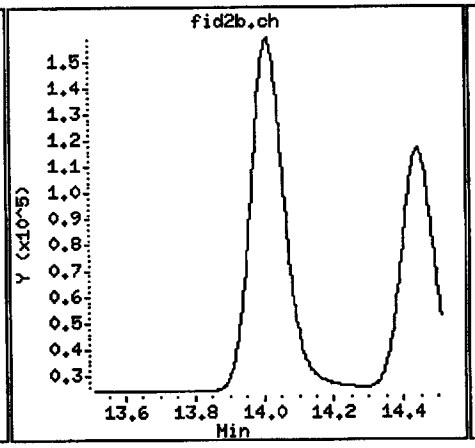
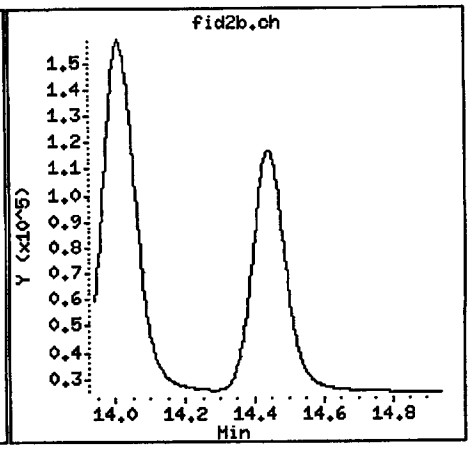
10 MTBE



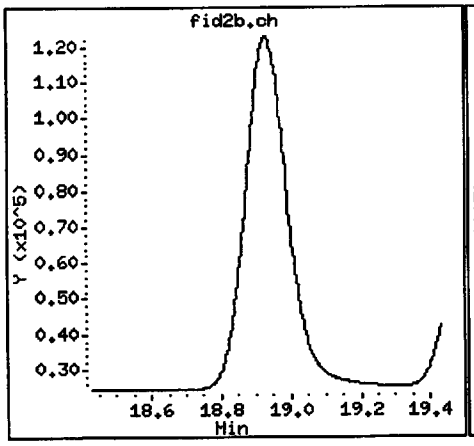
20 Benzene



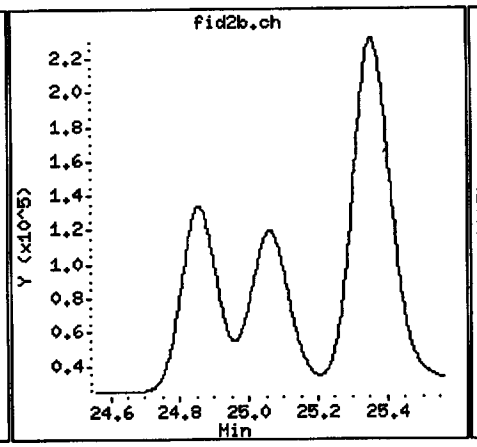
* 21 Fluorobenzene



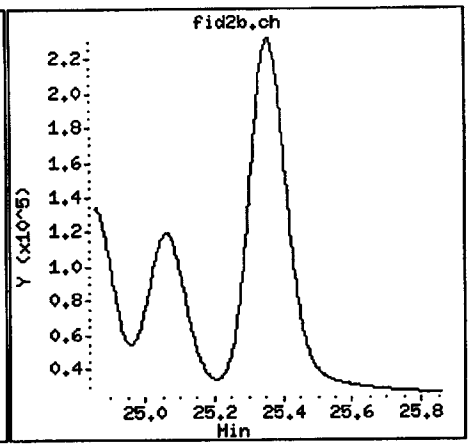
26 Toluene



32 Ethylbenzene



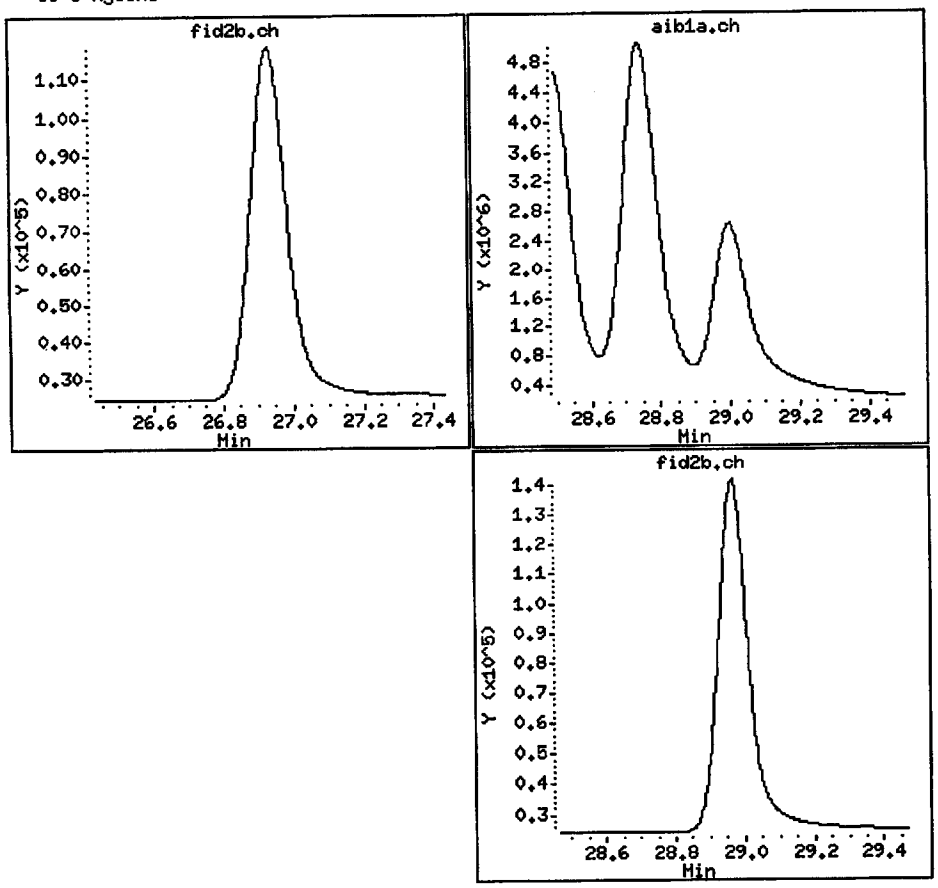
33 m,p-xylene



Data File: \\Reinhard\EE\chem\vgc5.i\V5092802.b\CCV52.D

35 o-xylene

$ 39 4-bromofluorobenzene



Data File: \\REINHARD\ee\chem\vgc5.i\V5092802.b\LCS51.D
Report Date: 04-Oct-2002 12:49

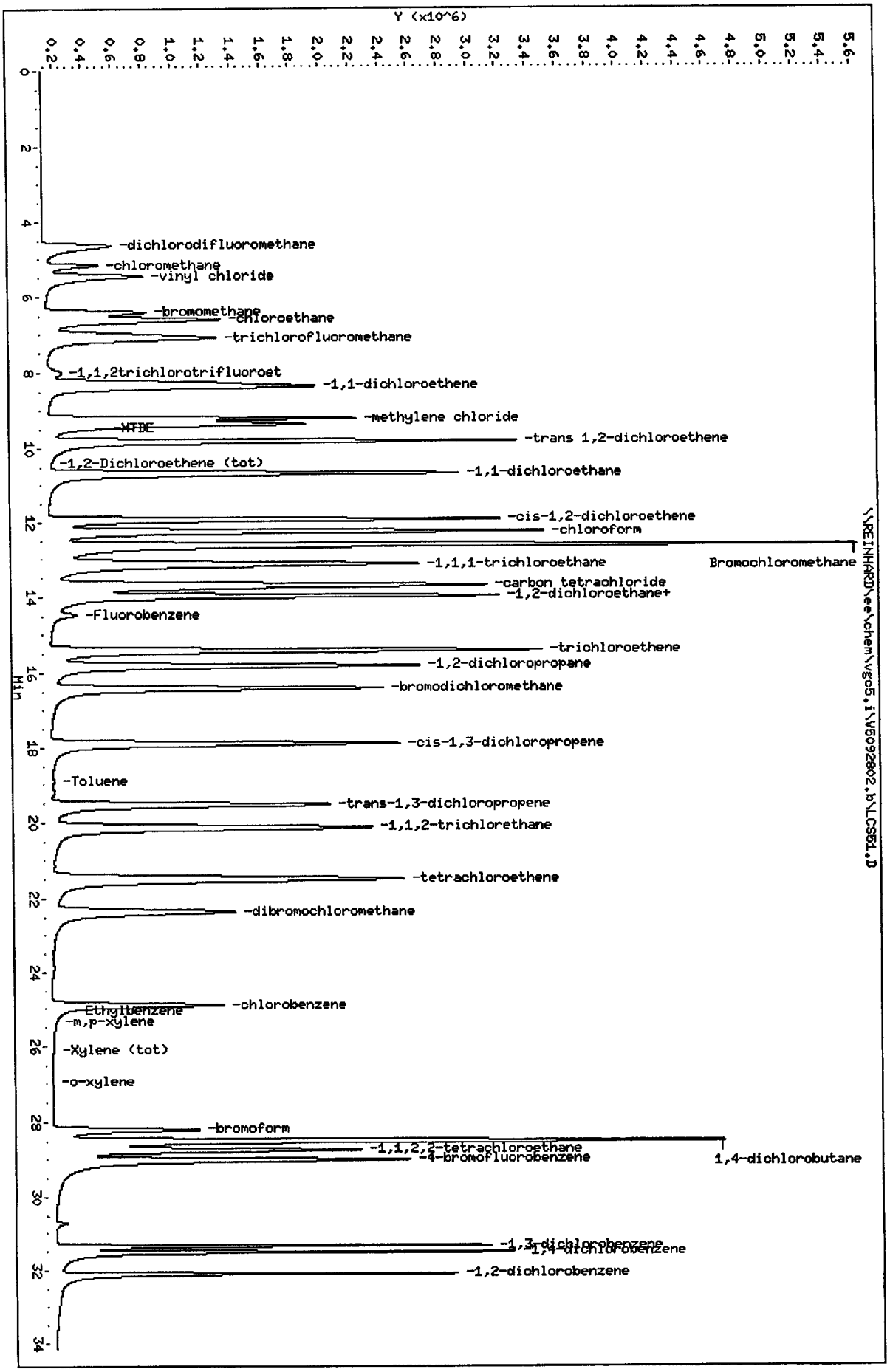
PEL Laboratories, Inc.

Data file : \\REINHARD\ee\chem\vgc5.i\V5092802.b\LCS51.D
Lab Smp Id: 092802LCSA51 Client Smp ID: 092802LCSA51
Inj Date : 28-SEP-2002 12:10
Operator : EB Inst ID: vgc5.i
Smp Info : 092802LCSA51
Misc Info :
Comment :
Method : \\Reinhard\ee\chem\vgc5.i\V5092802.b\8021.m
Meth Date : 04-Oct-2002 12:49 mjacobs Quant Type: ISTD
Cal Date : 07-SEP-2002 19:18 Cal File: 100PPB.D
Als bottle: 3 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: mbtexrl.sub
Target Version: 4.04
Processing Host: REINHARD

Concentration Formula: Amt * DF * Vf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	Final Volume
Vo	5.000	Sample Volume

Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
10 MTBE	FID2B	9.463	9.446	(0.655)	120035	11.6675	11.7
20 Benzene	FID2B	14.020	14.010	(0.970)	301838	10.2772	10.3
* 21 Fluorobenzene	FID2B	14.450	14.440	(1.000)	609159	30.0000	
26 Toluene	FID2B	18.940	18.930	(1.311)	286049	11.0472	11.0
32 Ethylbenzene	FID2B	25.070	25.060	(1.735)	258334	10.6152	10.6
33 m,p-xylene	FID2B	25.363	25.356	(1.755)	579161	21.9907	22.0
35 o-xylene	FID2B	26.940	26.930	(1.864)	232566	10.5411	10.5
M 34 Xylene (tot)	FID2B				811727	32.5318	32.5
$ 39 4-bromofluorobenzene	FID2B	28.973	28.966	(2.005)	717905	29.3570	29.4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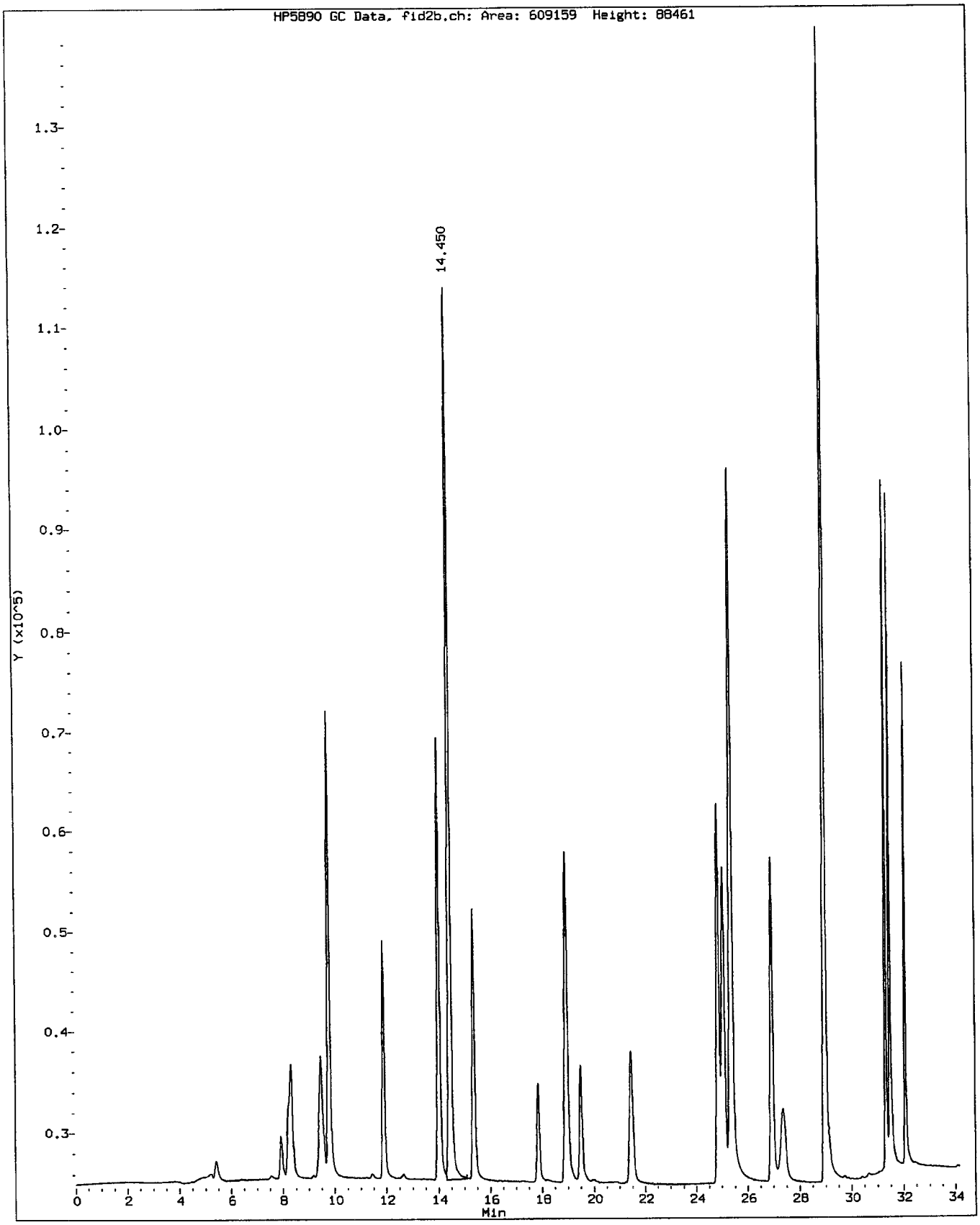
Date : 28-SEP-2002 12:10
Client ID: 092802LCSA51
Sample Info: 092802LCSA51
Purge Volume: 5.0
Column phase: RTX 502.2
Instrument: vgc5.i
Operator: EB
Column diameter: 0.53
Y (x10^6)
Min
-dichlorodifluoromethane
-chloromethane
-vinyl chloride
-bromomethane
-chloroethane
-trichlorofluoromethane
-1,1,2trichlorotrifluoroet
-1,1-dichloroethene
-methylene chloride
MTBE
-trans 1,2-dichloroethene
-1,2-Dichloroethene (tot)
-1,1-dichloroethane
-cis-1,2-dichloroethene
-chloroform
Bromochloromethane
-1,1,1-trichloroethane
-carbon tetrachloride
-1,2-dichloroethane+
-Fluorobenzene
-trichloroethene
-1,2-dichloropropane
-bromodichloromethane
-cis-1,3-dichloropropene
-Toluene
-trans-1,3-dichloropropene
-1,1,2-trichlorethane
-tetrachloroethene
-dibromochloromethane
-chlorobenzene
Ethylbenzene
-m,p-xylene
-Xylene (tot)
-o-xylene
-bromoform
-1,1,2,2-tetrachloroethane
-4-bromofluorobenzene
1,4-dichlorobutane
-1,3-dichlorobenzene
-1,4-dichlorobenzene
-1,2-dichlorobenzene
\\REINHARD\ee\chem\vgc5.i\V5092802.b\LCS51.D

Data File: \\REINHARD\ee\chem\vgc5.i\V5092802.b\LCS51.D
Injection Date: 28-SEP-2002 12:10
Instrument: vgc5.i
Client Sample ID: 092802LCSA51

Compound: Fluorobenzene
CAS Number: 462-06-6



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Report Date: 04-Oct-2002 12:50

PEL Laboratories, Inc.

Data file : \\REINHARD\ee\chem\vgc5.i\V5092802.b\BLK51.D
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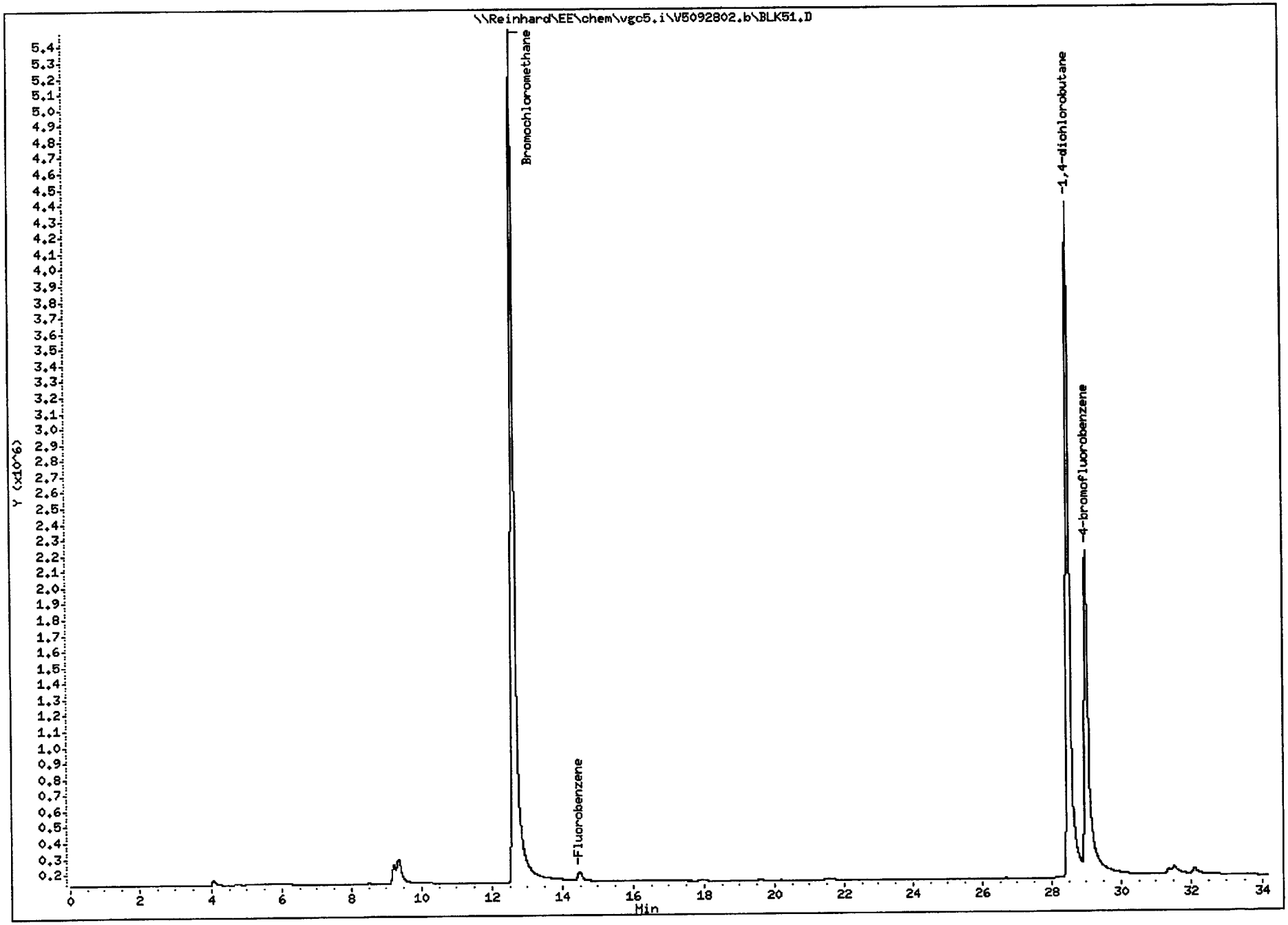
Inj Date : 28-SEP-2002 12:54
Operator : EB Inst ID: vgc5.i
Smp Info : 092802BLKA51
Misc Info :
Comment :
Method : \\Reinhard\ee\chem\vgc5.i\V5092802.b\8021.m
Meth Date : 04-Oct-2002 12:49 mjacobs Quant Type: ISTD
Cal Date : 07-SEP-2002 19:18 Cal File: 100PPB.D
Als bottle: 4 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: mbtexrl.sub
Target Version: 4.04
Processing Host: REINHARD

Concentration Formula: Amt * DF * Vf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	Final Volume
Vo	5.000	Sample Volume

Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 21 Fluorobenzene	FID2B	14.460	14.440	(1.000)	584224	30.0000	
$ 39 4-bromofluorobenzene	FID2B	28.980	28.966	(2.004)	651683	27.7864	27.8

Data File: \\Reinhard\EE\chem\vgc5.i\V5092802.b\BLK51.D



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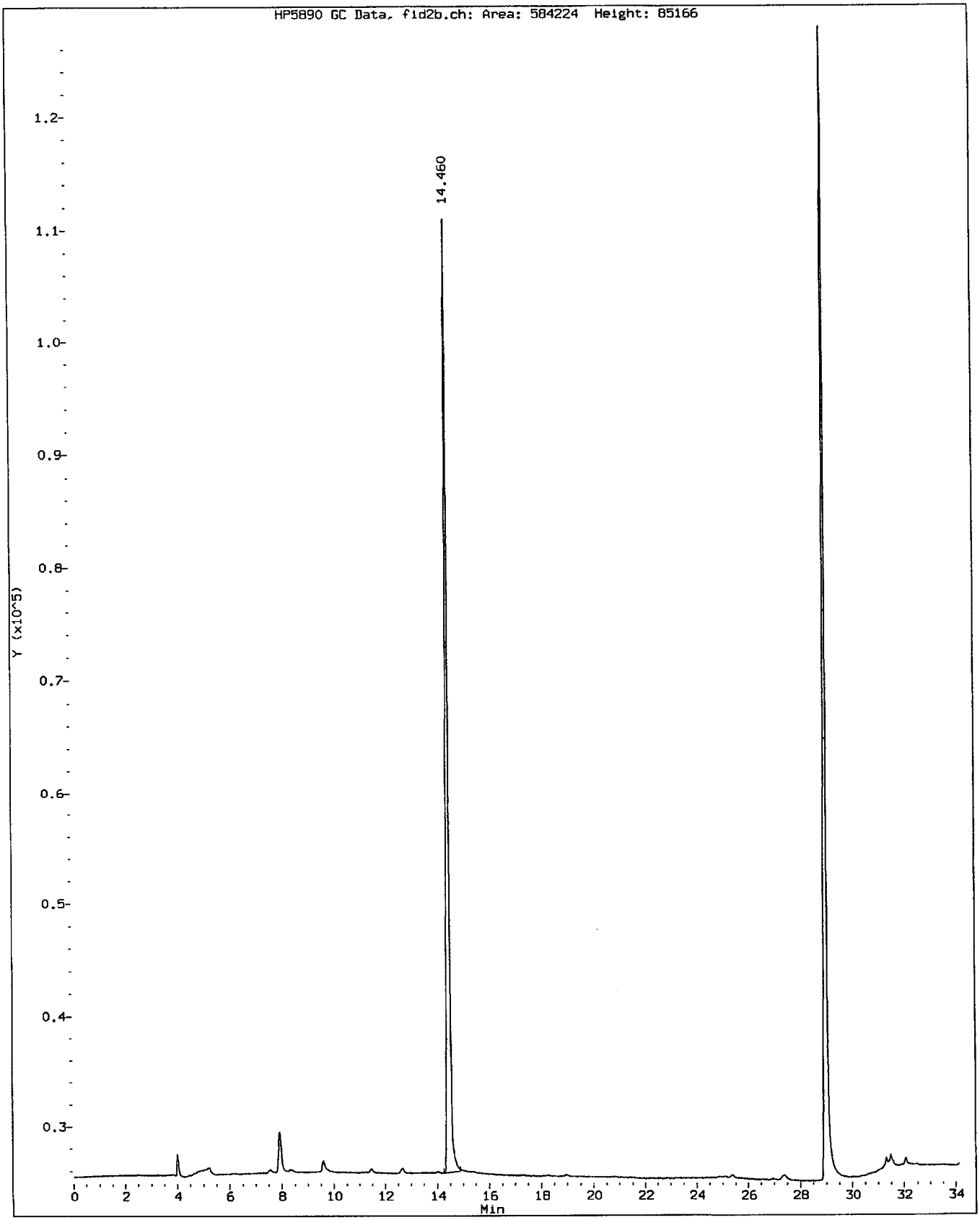
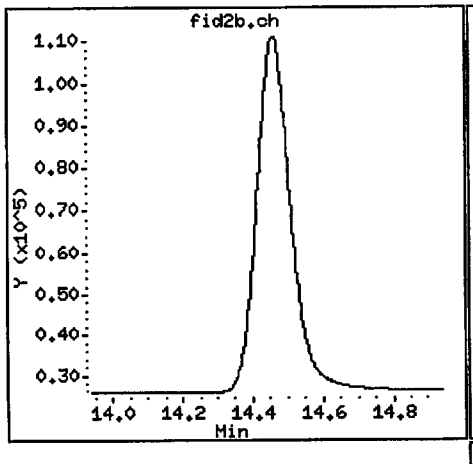
Injection Date: 28-SEP-2002 12:54
Instrument: vgc5.i
Client Sample ID: 092802BLKA51

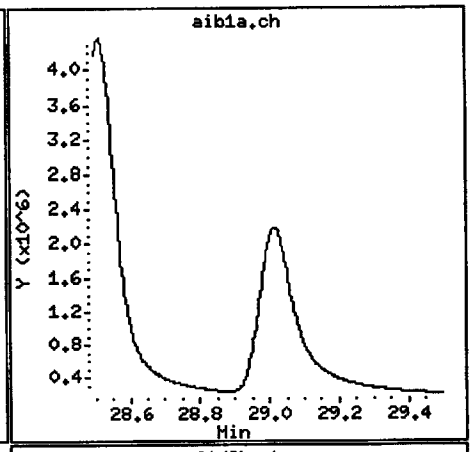
Compound: Fluorobenzene
CAS Number: 462-06-6

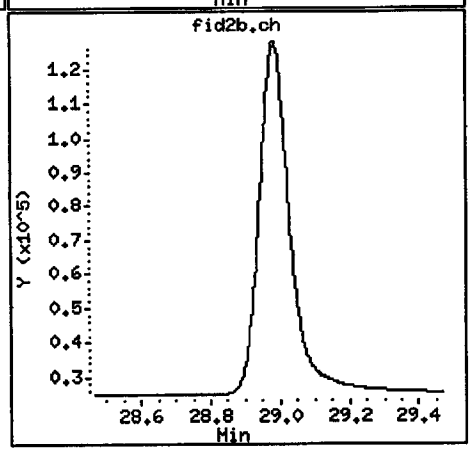


× 21 Fluorobenzene



$ 39 4-bromofluorobenzene





Data File: \\REINHARD\ee\chem\vgc5.i\V5092802.b\178-5MS.D
Report Date: 04-Oct-2002 12:50

PEL Laboratories, Inc.

Data file : \\REINHARD\ee\chem\vgc5.i\V5092802.b\178-5MS.D
Lab Smp Id: 062MW20Q302MS Client Smp ID: 062MW20Q302MS
Inj Date : 28-SEP-2002 13:39
Operator : EB Inst ID: vgc5.i
Smp Info : 220817805MS
Misc Info :
Comment :
Method : \\Reinhard\ee\chem\vgc5.i\V5092802.b\8021.m
Meth Date : 04-Oct-2002 12:49 mjacobs Quant Type: ISTD
Cal Date : 07-SEP-2002 19:18 Cal File: 100PPB.D
Als bottle: 5 QC Sample: MS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: mbtexrl.sub
Target Version: 4.04
Processing Host: REINHARD

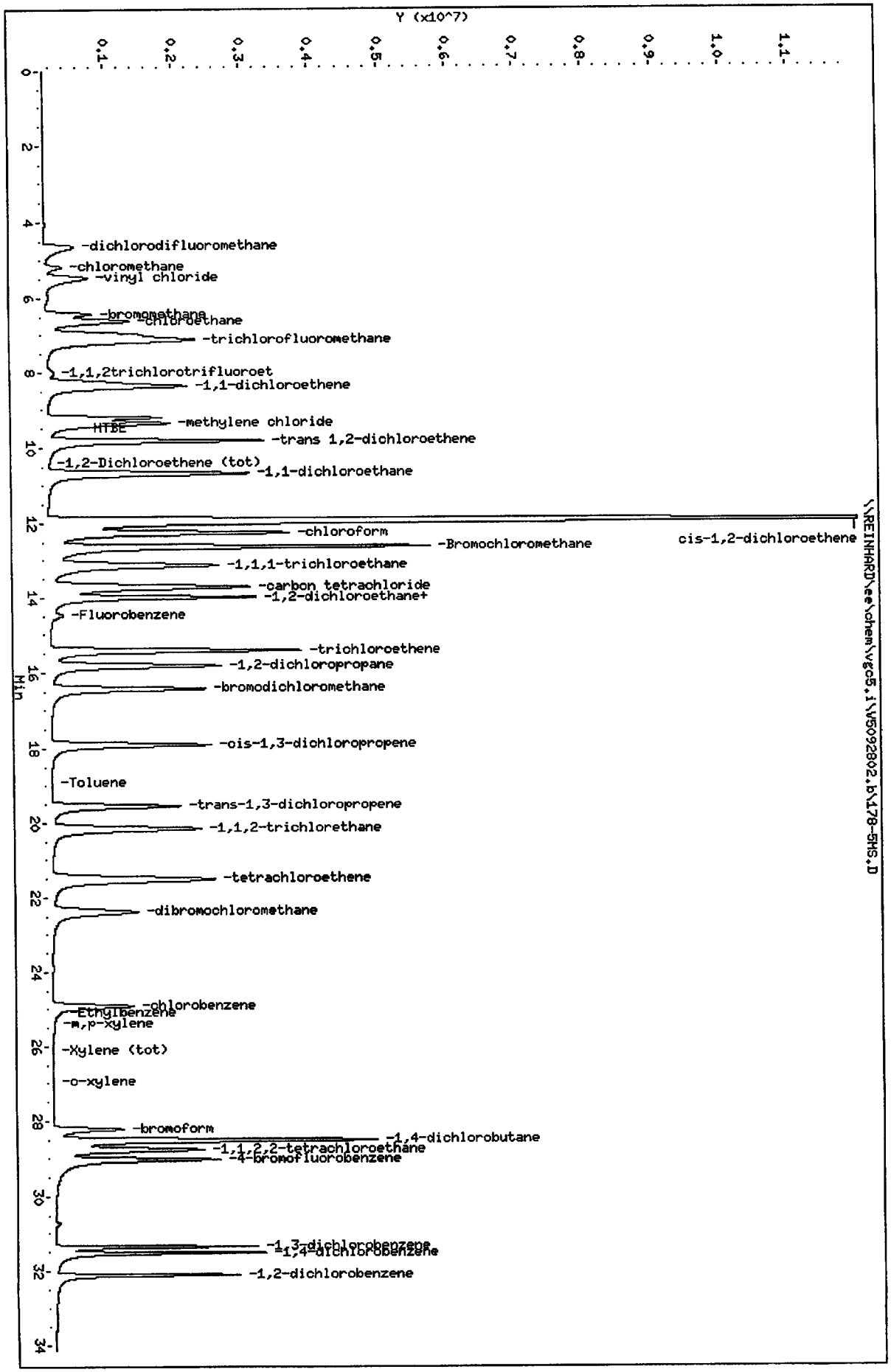
Concentration Formula: Amt * DF * Vf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	Final Volume
Vo	5.000	Sample Volume

Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
10 MTBE	FID2B	9.473	9.446	(0.655)	111767	11.3026	11.3
20 Benzene	FID2B	14.033	14.010	(0.970)	305189	10.8110	10.8
* 21 Fluorobenzene	FID2B	14.463	14.440	(1.000)	585511	30.0000	
26 Toluene	FID2B	18.956	18.930	(1.311)	280987	11.2900	11.3
32 Ethylbenzene	FID2B	25.086	25.060	(1.735)	255094	10.9054	10.9
33 m,p-xylene	FID2B	25.373	25.356	(1.754)	560394	22.1375	22.1
35 o-xylene	FID2B	26.950	26.930	(1.863)	228855	10.7918	10.8
M 34 Xylene (tot)	FID2B				789249	32.9294	32.9
$ 39 4-bromofluorobenzene	FID2B	28.983	28.966	(2.004)	704313	29.9644	30.0

Data File: \\REINHARD\ee\chem\vgc5.i\W5092802.b\178-5MS.D
Date : 28-SEP-2002 13:39
Client ID: 062NW20Q302MS
Sample Info: 220817805MS
Purge Volume: 5.0
Column phase: RTX 502.2

Instrument: vgc5.i
Operator: EB
Column diameter: 0.53



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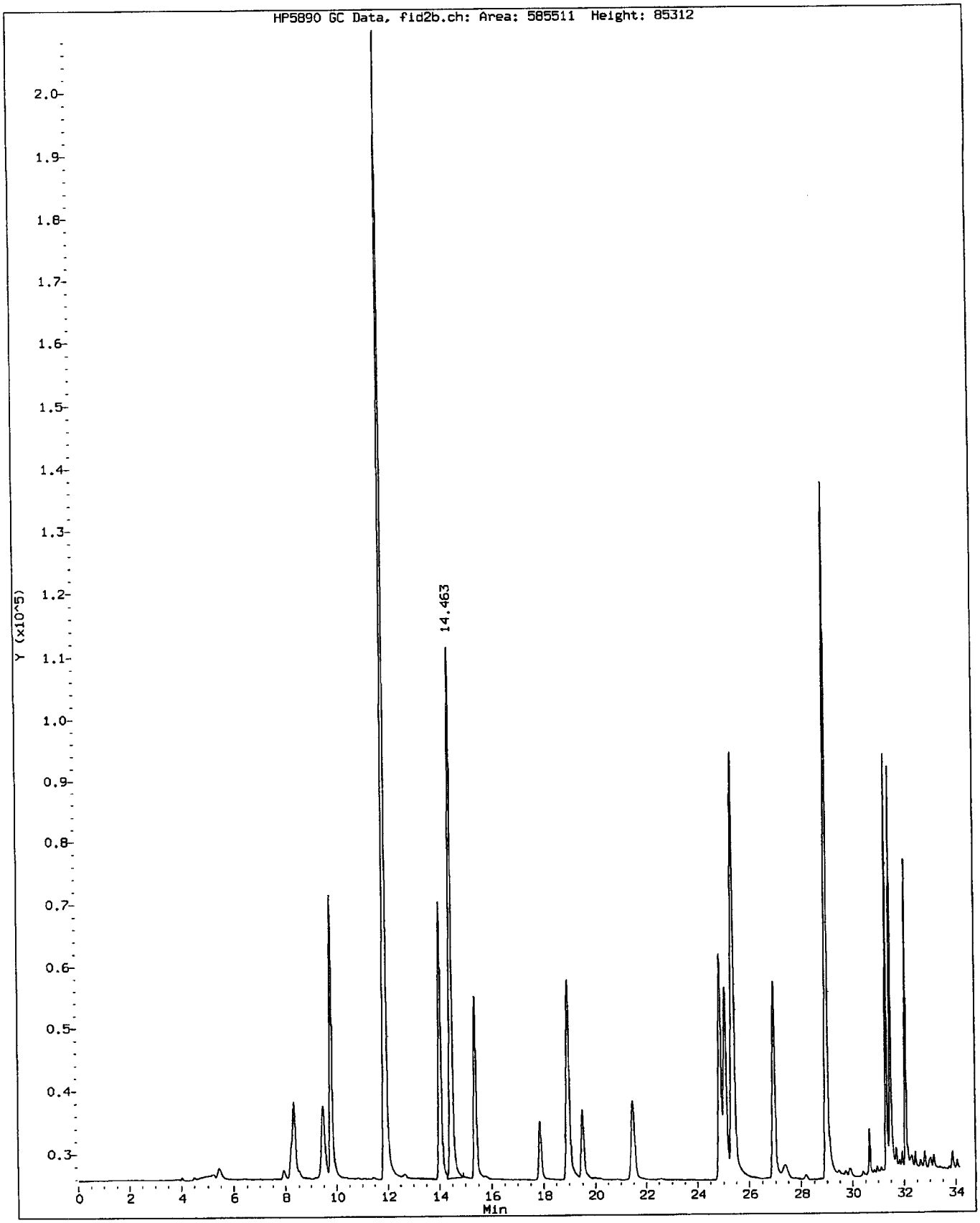
Injection Date: 28-SEP-2002 13:39
Instrument: vgc5.i
Client Sample ID: 062MW20Q302MS

Compound: Fluorobenzene
CAS Number: 462-06-6



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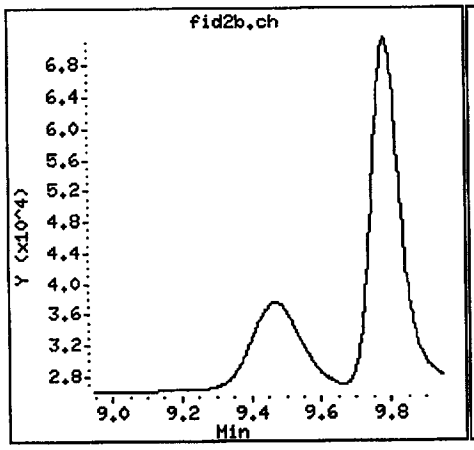
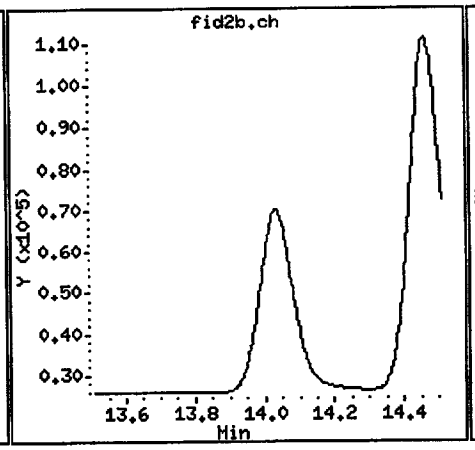
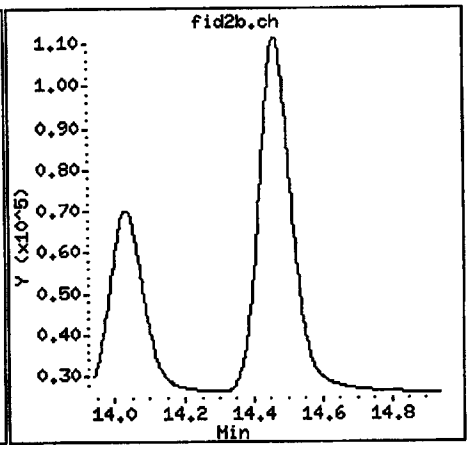
10 MTBE



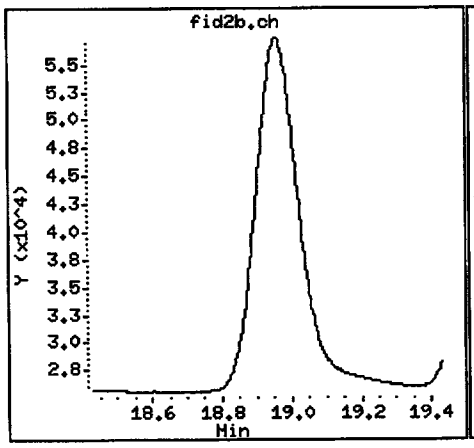
20 Benzene



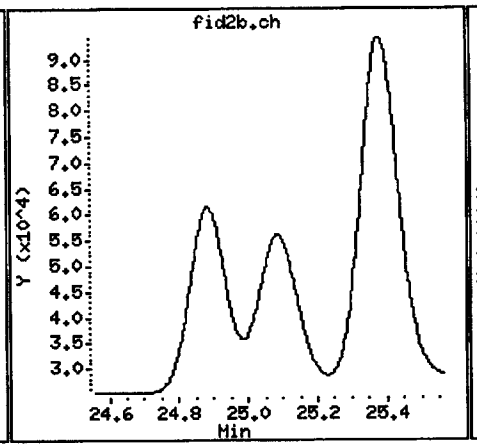
* 21 Fluorobenzene



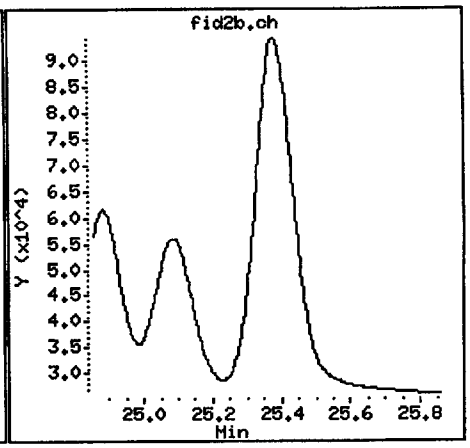
26 Toluene



32 Ethylbenzene

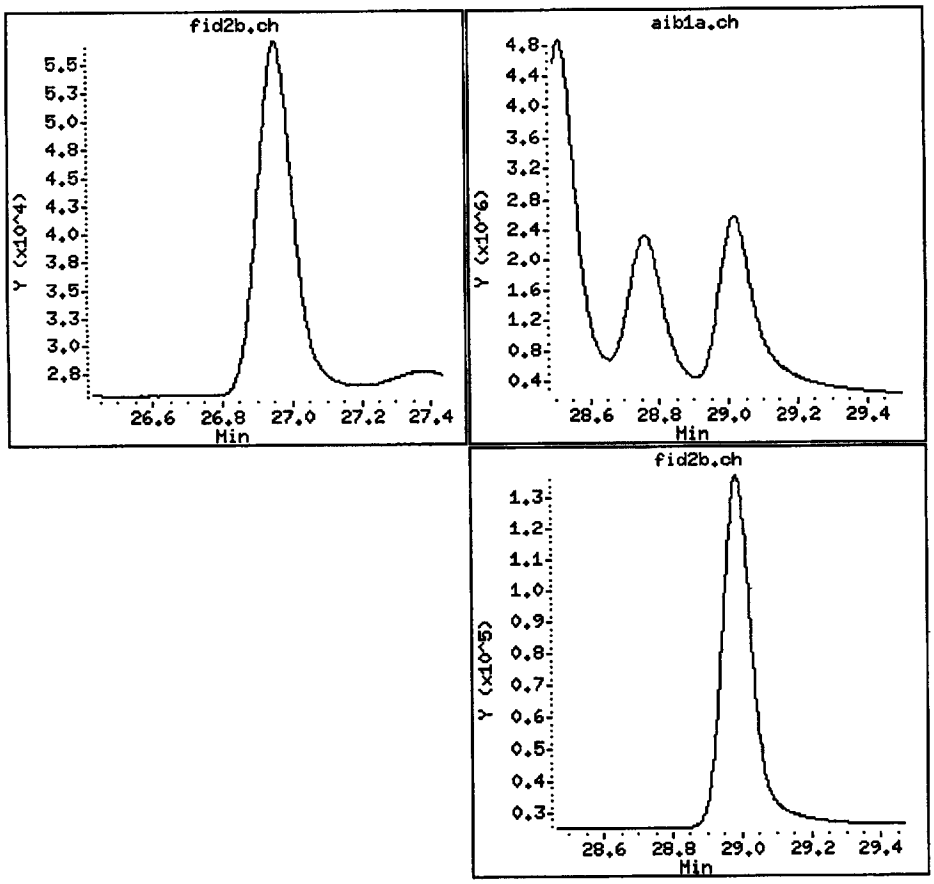


33 m,p-xylene



35 o-xylene

$ 39 4-bromofluorobenzene



Data File: \\REINHARD\ee\chem\vgc5.i\V5092802.b\178-6SD.D
Report Date: 04-Oct-2002 12:50

PEL Laboratories, Inc.

Data file : \\REINHARD\ee\chem\vgc5.i\V5092802.b\178-6SD.D
Lab Smp Id: 062MW20Q302MSD Client Smp ID: 062MW20Q302MSD
Inj Date : 28-SEP-2002 14:24
Operator : EB Inst ID: vgc5.i
Smp Info : 062MW20Q302MSD
Misc Info :
Comment :
Method : \\Reinhard\ee\chem\vgc5.i\V5092802.b\8021.m
Meth Date : 04-Oct-2002 12:49 mjacobs Quant Type: ISTD
Cal Date : 07-SEP-2002 19:18 Cal File: 100PPB.D
Als bottle: 6 QC Sample: MSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: mbtexrl.sub
Target Version: 4.04
Processing Host: REINHARD

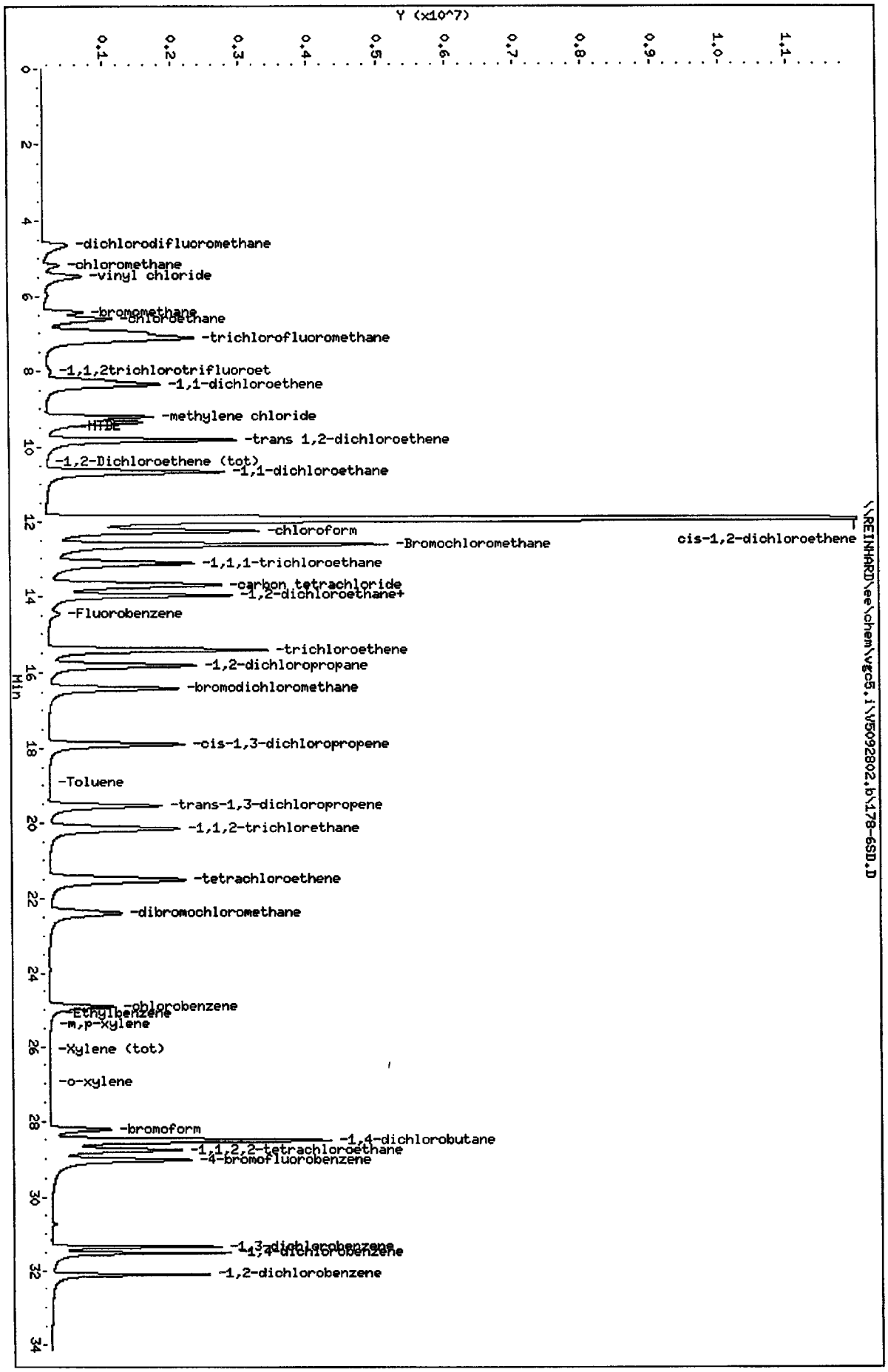
Concentration Formula: Amt * DF * Vf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	Final Volume
Vo	5.000	Sample Volume

Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
10 MTBE	FID2B	9.470	9.446	(0.655)	96081	11.4705	11.5
20 Benzene	FID2B	14.030	14.010	(0.970)	251554	10.5198	10.5
* 21 Fluorobenzene	FID2B	14.463	14.440	(1.000)	495969	30.0000	
26 Toluene	FID2B	18.956	18.930	(1.311)	232979	11.0511	11.0
32 Ethylbenzene	FID2B	25.086	25.060	(1.735)	208594	10.5275	10.5
33 m,p-xylene	FID2B	25.380	25.356	(1.755)	455604	21.2473	21.2
35 o-xylene	FID2B	26.953	26.930	(1.864)	190697	10.6160	10.6
M 34 Xylene (tot)	FID2B				646301	31.8633	31.9
$ 39 4-bromofluorobenzene	FID2B	28.986	28.966	(2.004)	584503	29.3567	29.4

Data File: \\REINHARD\ee\chem\vgc5.i\V5092802.b\178-6SD.D
Date : 28-SEP-2002 14:24
Client ID: 062MW20Q302MSD
Sample Info: 062MW20Q302MSD
Purge Volume: 5.0
Column phase: RTX 502.2

Instrument: vgc5.i
Operator: EB
Column diameter: 0.53



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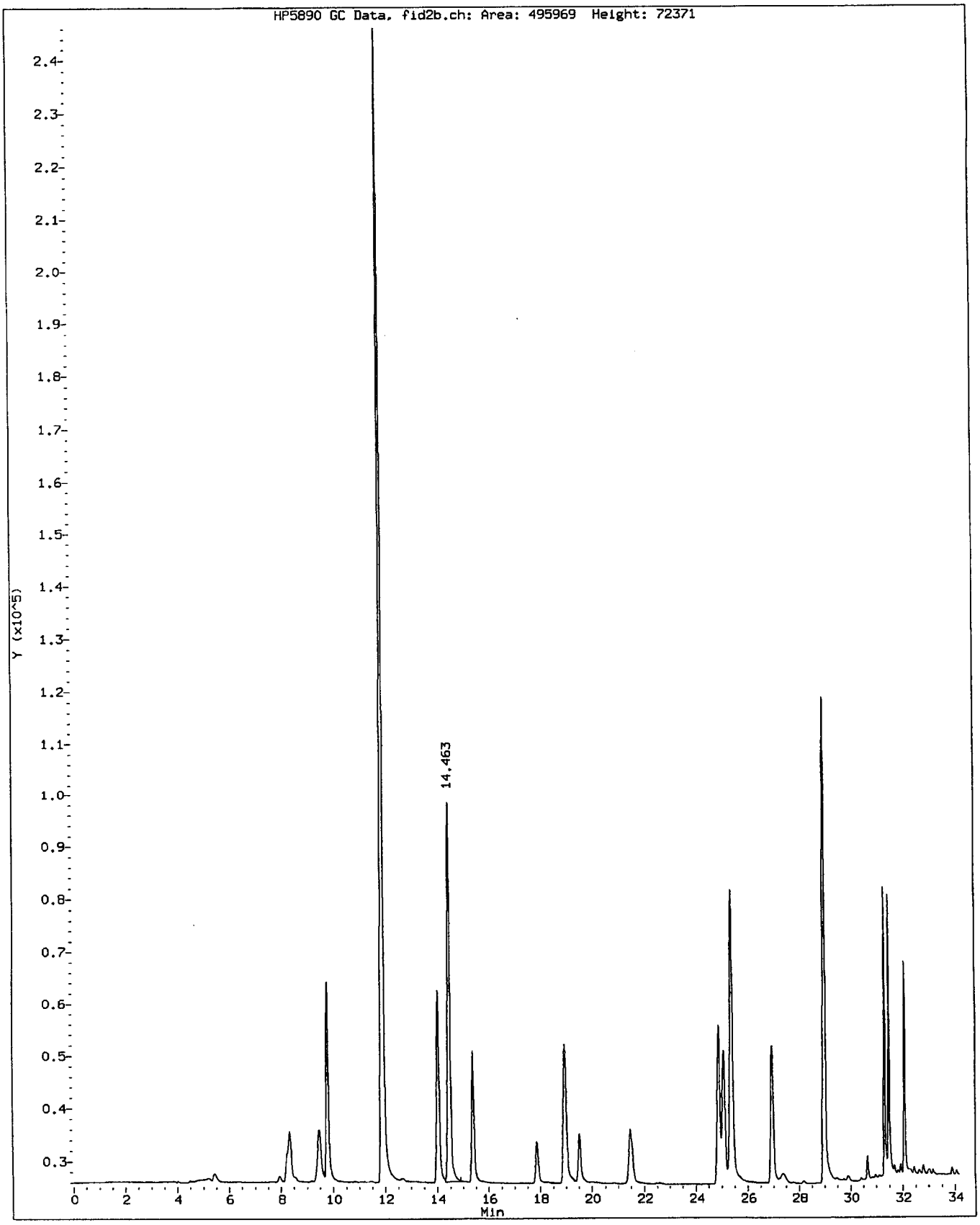
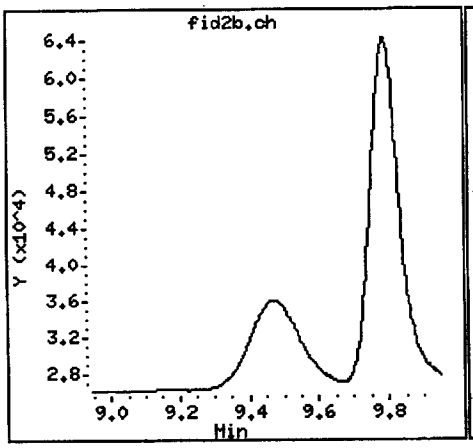
Injection Date: 28-SEP-2002 14:24
Instrument: vgc5.i
Client Sample ID: 062MW20Q302MSD

Compound: Fluorobenzene
CAS Number: 462-06-6

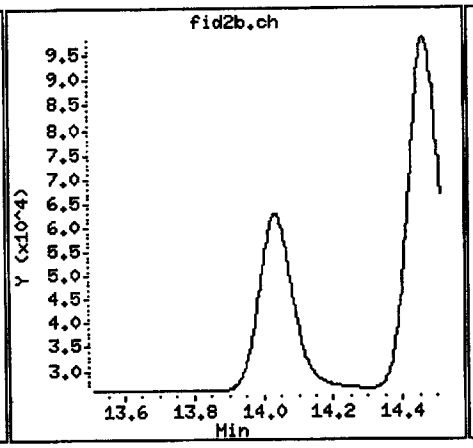


Data File: \\Reinhard\EE\chem\vgc5.i\V5092802.b\178-6SD.D

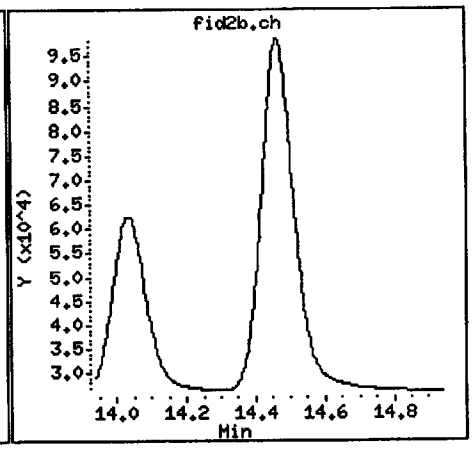
10 MTBE



20 Benzene

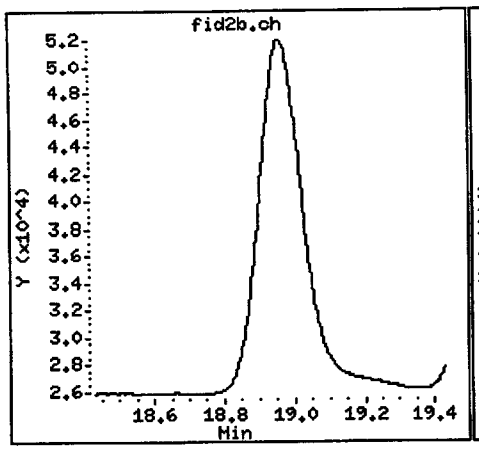


* 21 Fluorobenzene

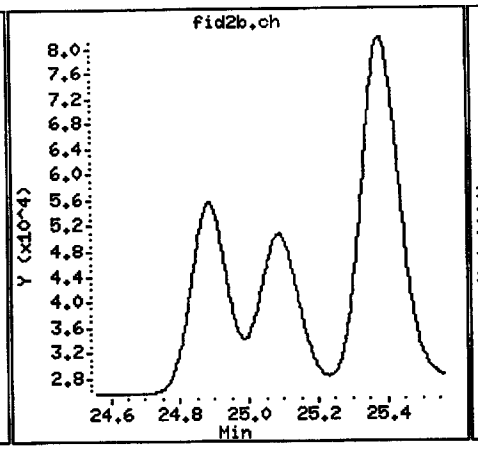


Data File: \\Reinhard\EE\chem\vgc5.i\V5092802.b\178-6SD.D

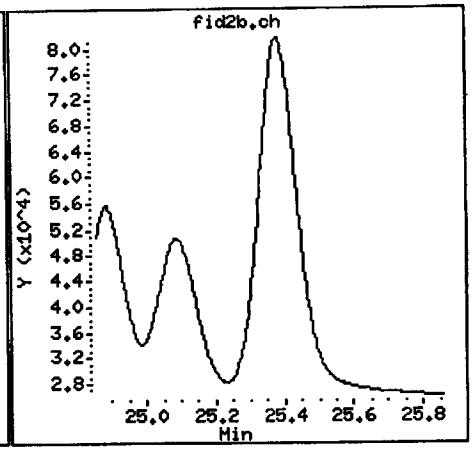
26 Toluene



32 Ethylbenzene

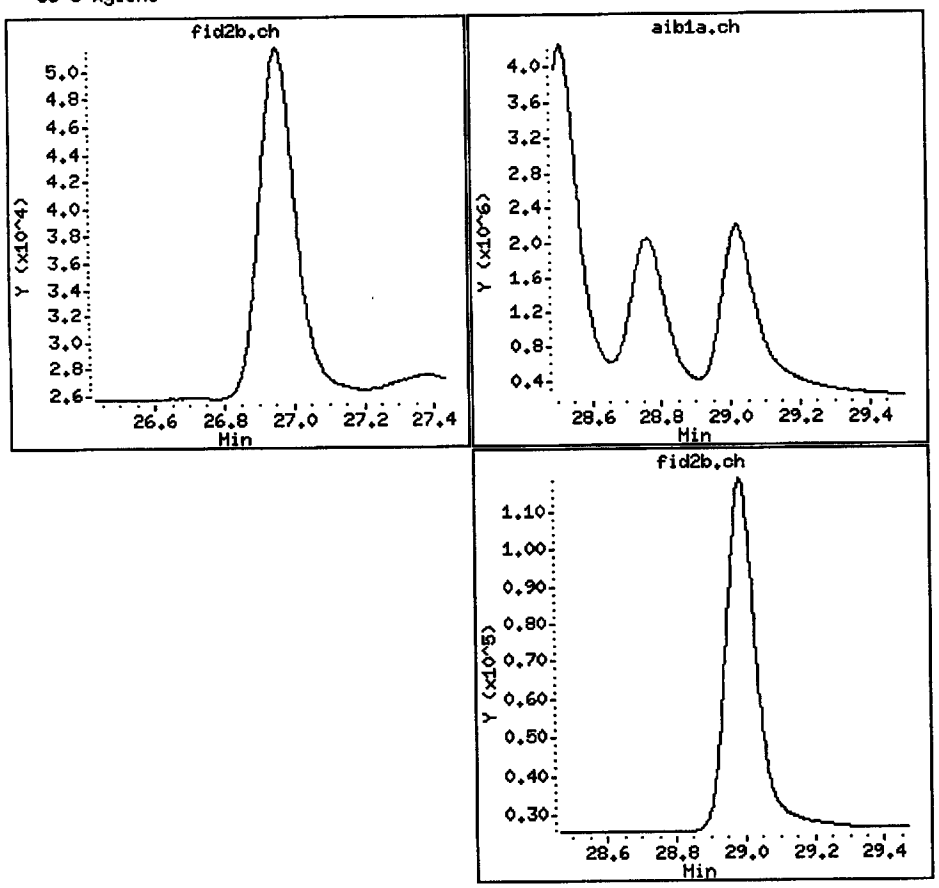


33 m,p-xylene



35 o-xylene

$ 39 4-bromofluorobenzene



Data File: \\Reinhard\EE\chem\vgc5.i\V5092802.b\178-4R.D
Report Date: 08-Oct-2002 10:42

PEL Laboratories, Inc.

Data file : \\Reinhard\EE\chem\vgc5.i\V5092802.b\178-4R.D
Lab Smp Id: 220917804 Client Smp ID: 062MW20Q302
Inj Date : 28-SEP-2002 15:08
Operator : EB Inst ID: vgc5.i
Smp Info : 220917804
Misc Info :
Comment :
Method : \\Reinhard\ee\chem\vgc5.i\V5092802.b\8021.m
Meth Date : 08-Oct-2002 10:37 lpelo Quant Type: ISTD
Cal Date : 07-SEP-2002 19:18 Cal File: 100PPB.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: mbtexrl.sub
Target Version: 4.04
Processing Host: PELCOMP01

Concentration Formula: Amt * DF * Vf/Vo

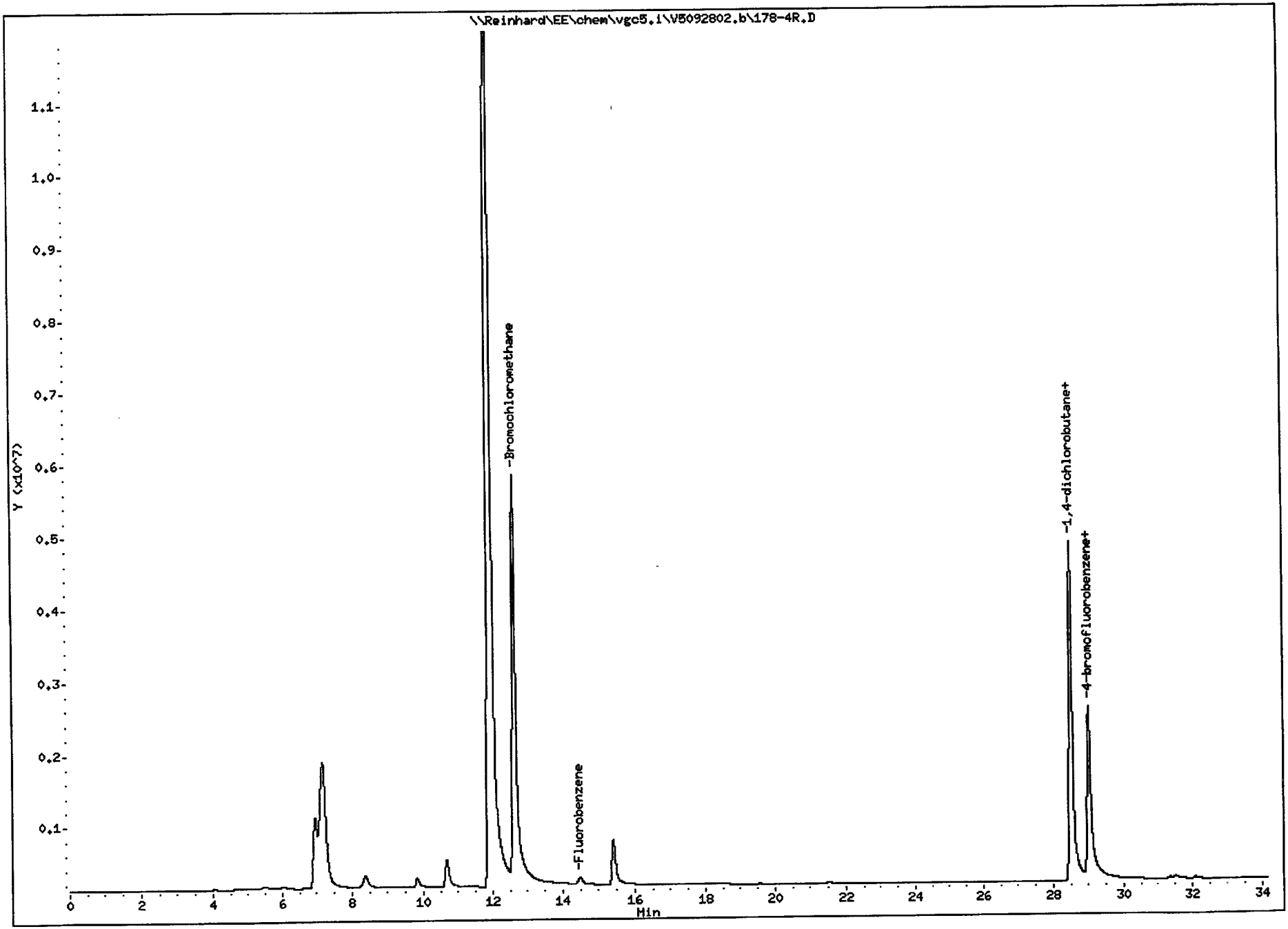
Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	Final Volume
Vo	5.000	Sample Volume

Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
20 Benzene	FID2B	14.036	14.003	(0.971)	15543	0.54922	0.55(a)
* 21 Fluorobenzene	FID2B	14.463	14.433	(1.000)	586981	30.0000	
26 Toluene	FID2B	18.953	18.916	(1.310)	6020	0.24128	0.24(a)
32 Ethylbenzene	FID2B	25.080	25.053	(1.734)	7174	0.30593	0.30(a)
35 o-xylene	FID2B	26.960	26.926	(1.864)	7122	0.33500	0.34(a)
M 34 Xylene (tot)	FID2B				7122	0.33500	0.34(a)
$ 39 4-bromofluorobenzene	FID2B	28.986	28.963	(2.004)	711715	30.2035	30.2

QC Flag Legend

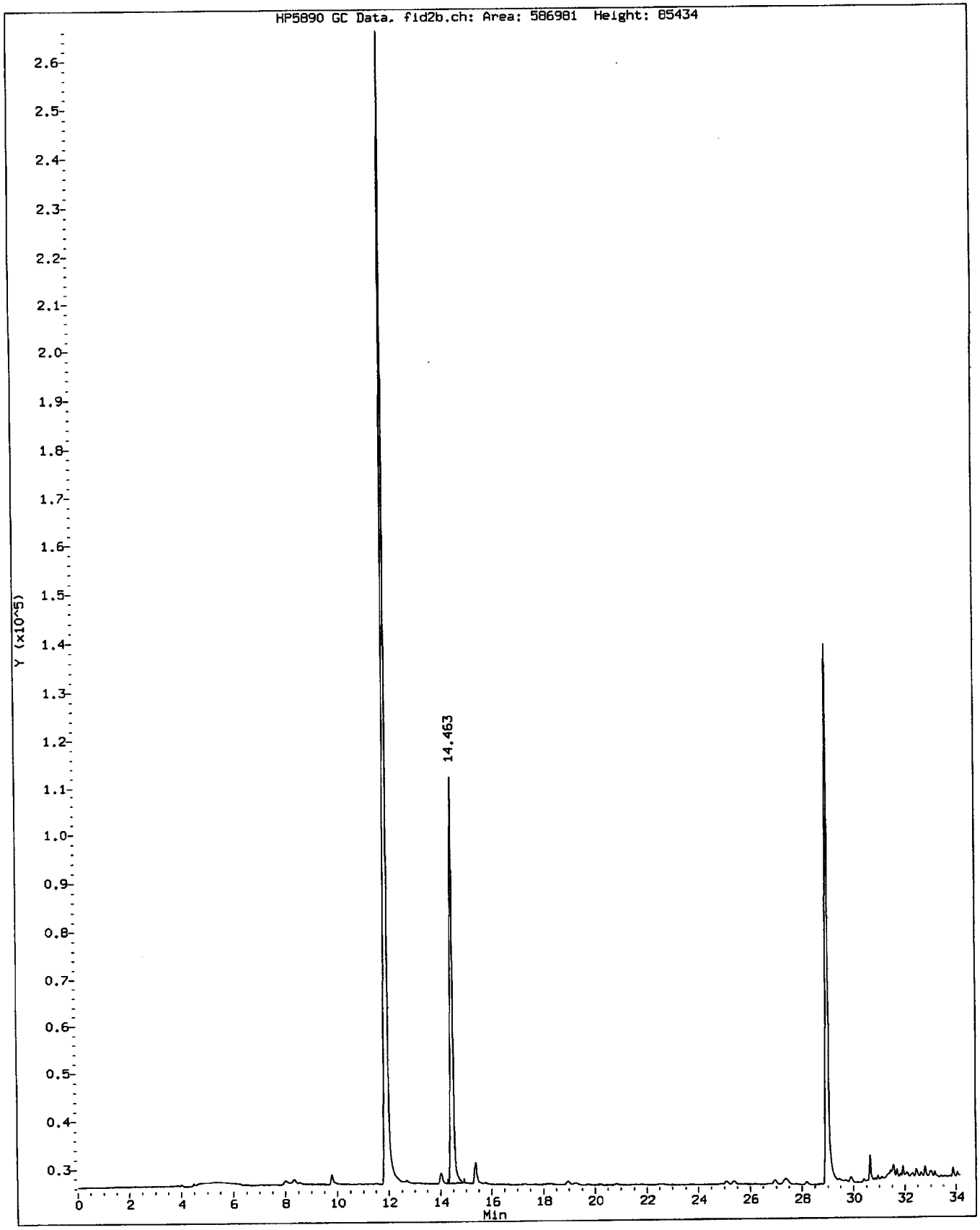
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\Reinhard\EE\chem\vgc5.i\V5092802.b\178-4R.D



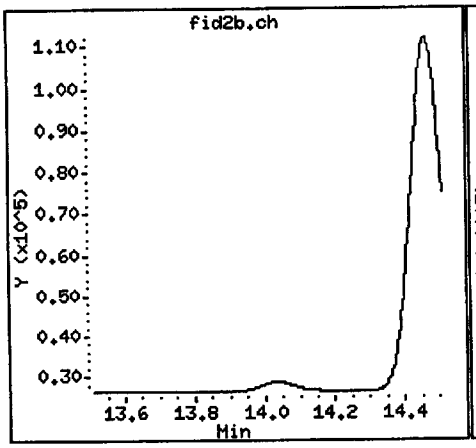
Data File: \\Reinhard\EE\chem\vgc5.i\V5092802.b\178-4R.D
Injection Date: 28-SEP-2002 15:08
Instrument: vgc5.i
Client Sample ID: 062MW20Q302

Compound: Fluorobenzene
CAS Number: 462-06-6

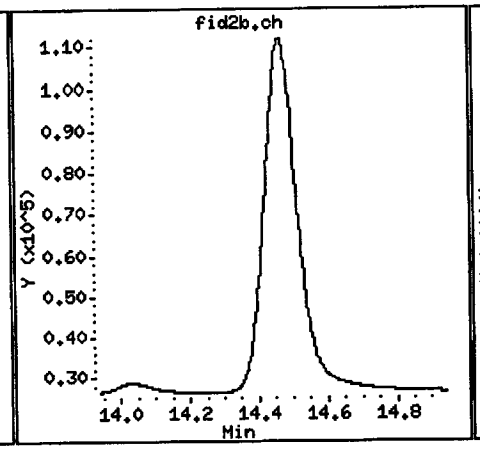


Data File: \\Reinhard\EE\chem\vgc5.i\V5092802.b\178-4R.D

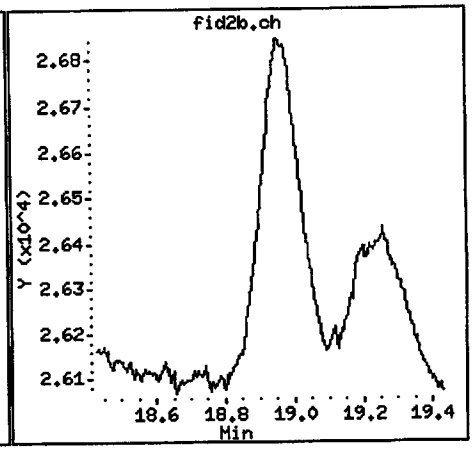
20 Benzene



× 21 Fluorobenzene

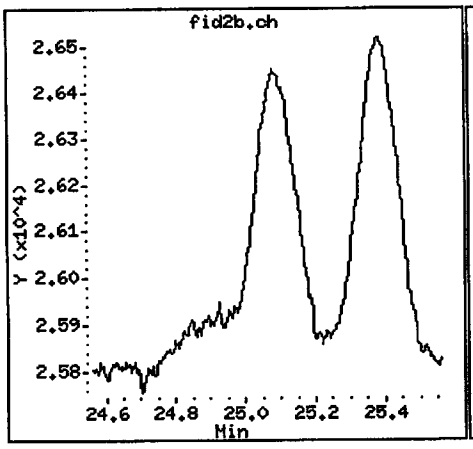


26 Toluene

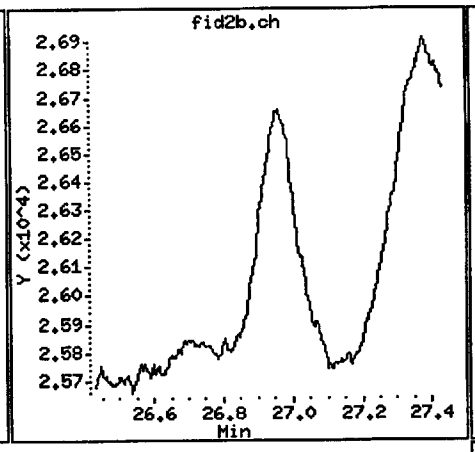


Data File: \\Reinhard\EE\chem\vgc5.i\V5092802.b\178-4R.D

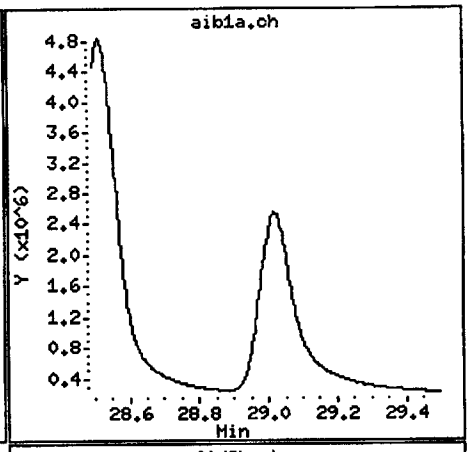
32 Ethylbenzene

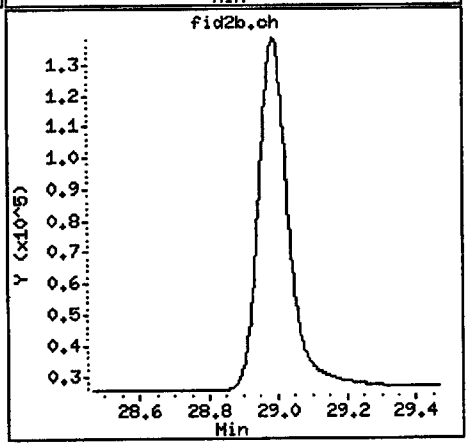


35 o-xylene



39 4-bromofluorobenzene





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Report Date: 04-Oct-2002 12:50

PEL Laboratories, Inc.

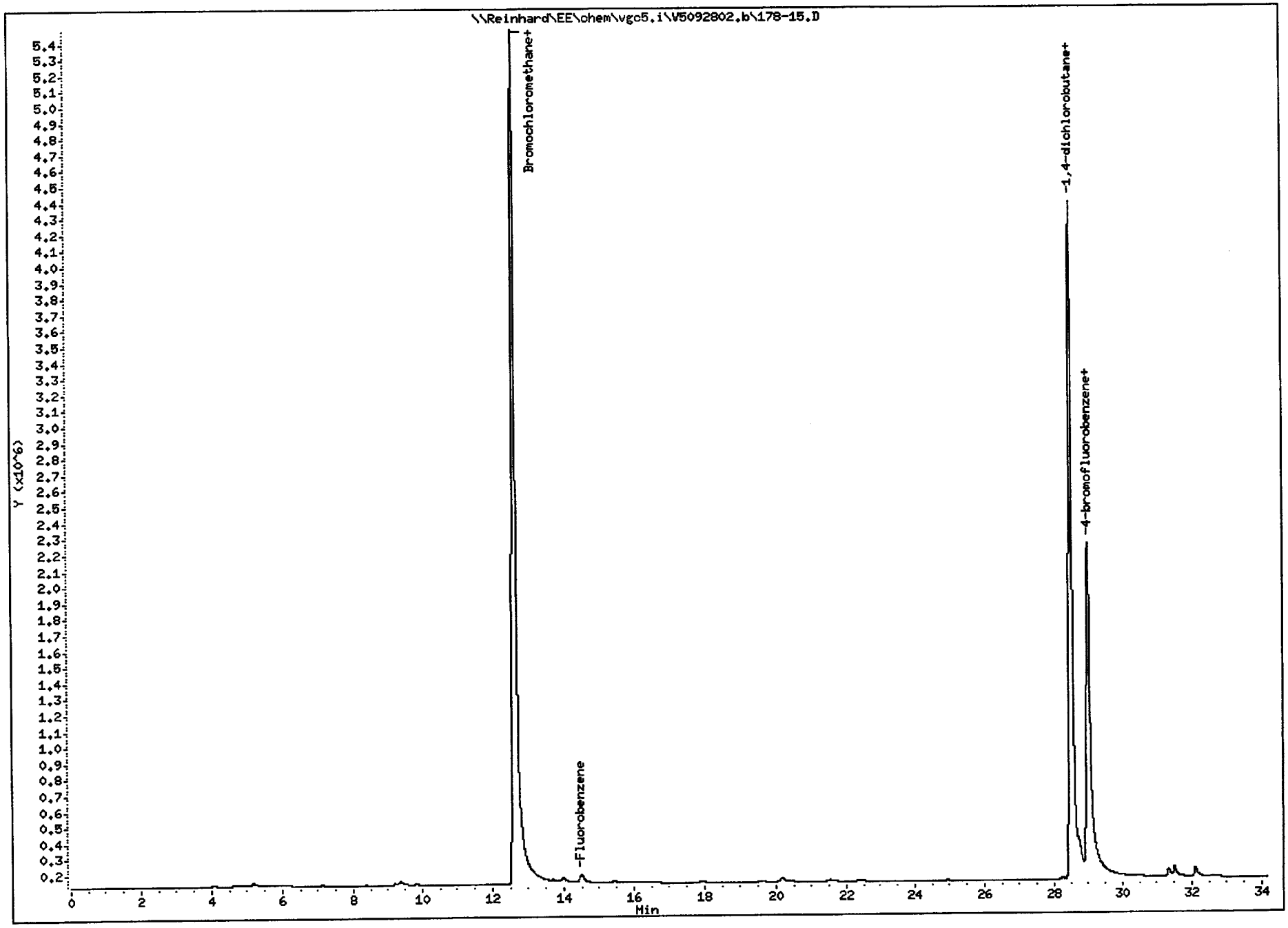
Data file : \\REINHARD\ee\chem\vgc5.i\V5092802.b\178-15.D
Lab Smp Id: 220917815 Client Smp ID: 062DUPQ302
Inj Date : 28-SEP-2002 16:37
Operator : EB Inst ID: vgc5.i
Smp Info : 220917815
Misc Info :
Comment :
Method : \\Reinhard\ee\chem\vgc5.i\V5092802.b\8021.m
Meth Date : 04-Oct-2002 12:49 mjacobs Quant Type: ISTD
Cal Date : 07-SEP-2002 19:18 Cal File: 100PPB.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: mbtexrl.sub
Target Version: 4.04
Processing Host: REINHARD

Concentration Formula: Amt * DF * Vf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	Final Volume
Vo	5.000	Sample Volume

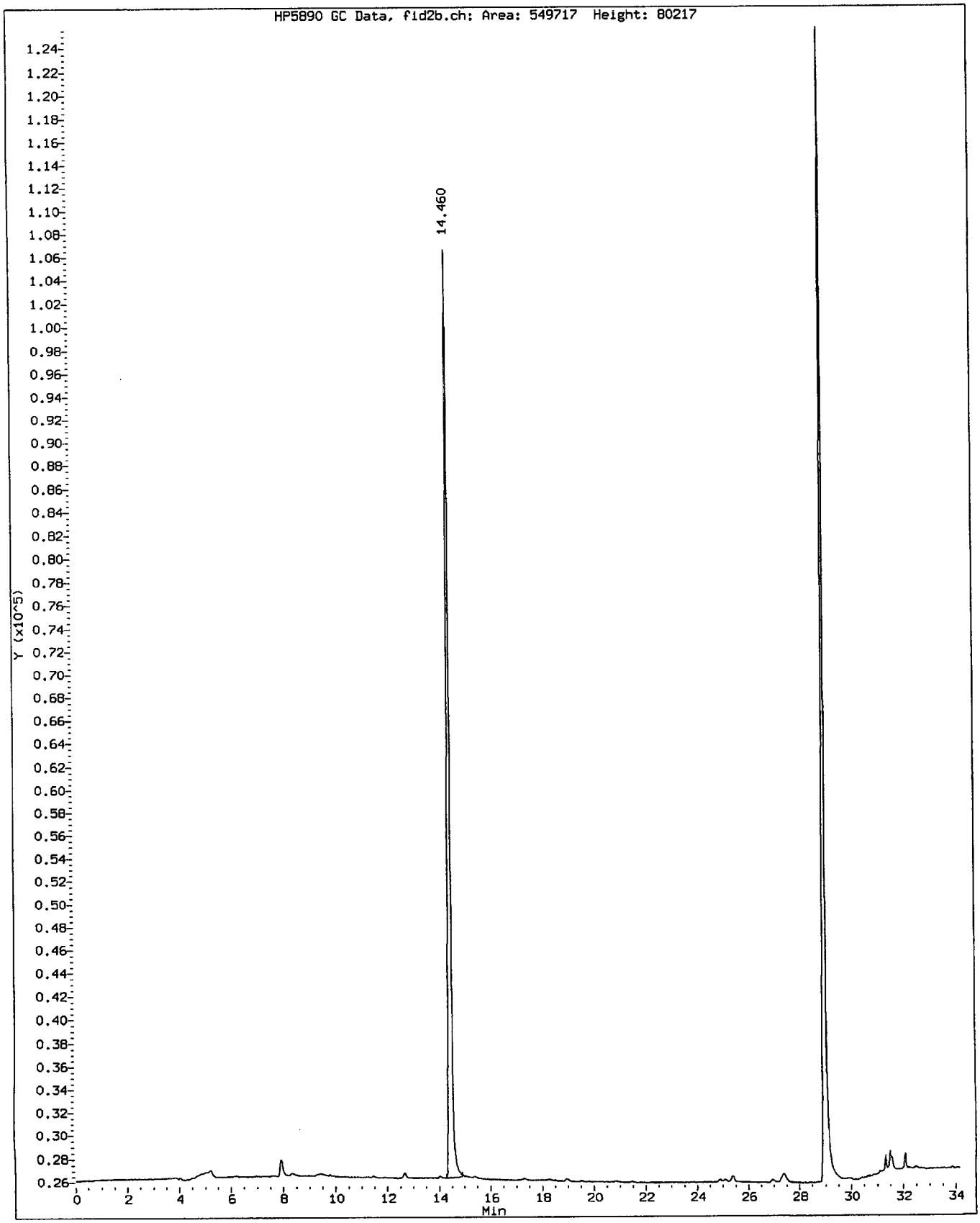
Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 21 Fluorobenzene	FID2B	14.460	14.440	(1.000)	549717	30.0000	
$ 39 4-bromofluorobenzene	FID2B	28.983	28.966	(2.004)	629816	28.5397	28.5

Data File: \\Reinhard\EE\chem\vgc5.i\V5092802.b\178-15.D



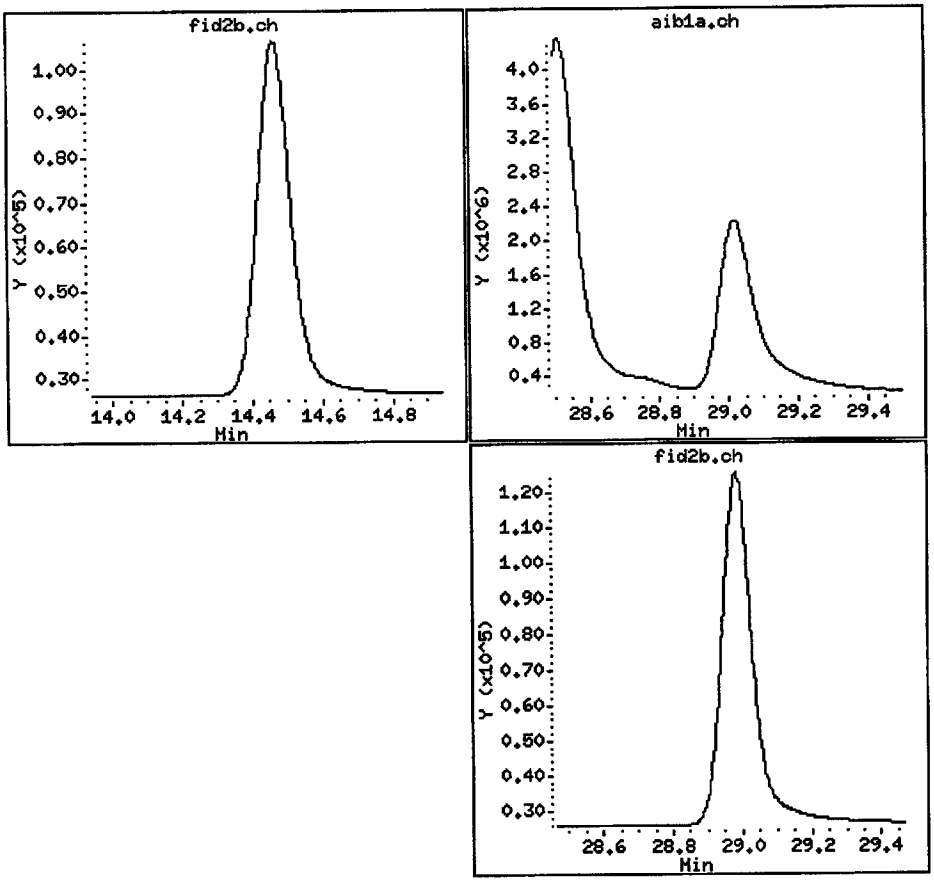
Data File: \\REINHARD\ee\chem\vgc5.i\V5092802.b\178-15.D
Injection Date: 28-SEP-2002 16:37
Instrument: vgc5.i
Client Sample ID: 062DUPQ302

Compound: Fluorobenzene
CAS Number: 462-06-6



× 21 Fluorobenzene

$ 39 4-bromofluorobenzene



Data File: \\REINHARD\ee\chem\vgc5.i\V5092802.b\178-16.D
Report Date: 04-Oct-2002 12:51

PEL Laboratories, Inc.

Data file : \\REINHARD\ee\chem\vgc5.i\V5092802.b\178-16.D
Lab Smp Id: 220917816 Client Smp ID: 062EQBQ302
Inj Date : 28-SEP-2002 18:04
Operator : EB Inst ID: vgc5.i
Smp Info : 220917816
Misc Info :
Comment :
Method : \\Reinhard\ee\chem\vgc5.i\V5092802.b\8021.m
Meth Date : 04-Oct-2002 12:49 mjacobs Quant Type: ISTD
Cal Date : 07-SEP-2002 19:18 Cal File: 100PPB.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: mbtexrl.sub
Target Version: 4.04
Processing Host: REINHARD

Concentration Formula: Amt * DF * Vf/Vo

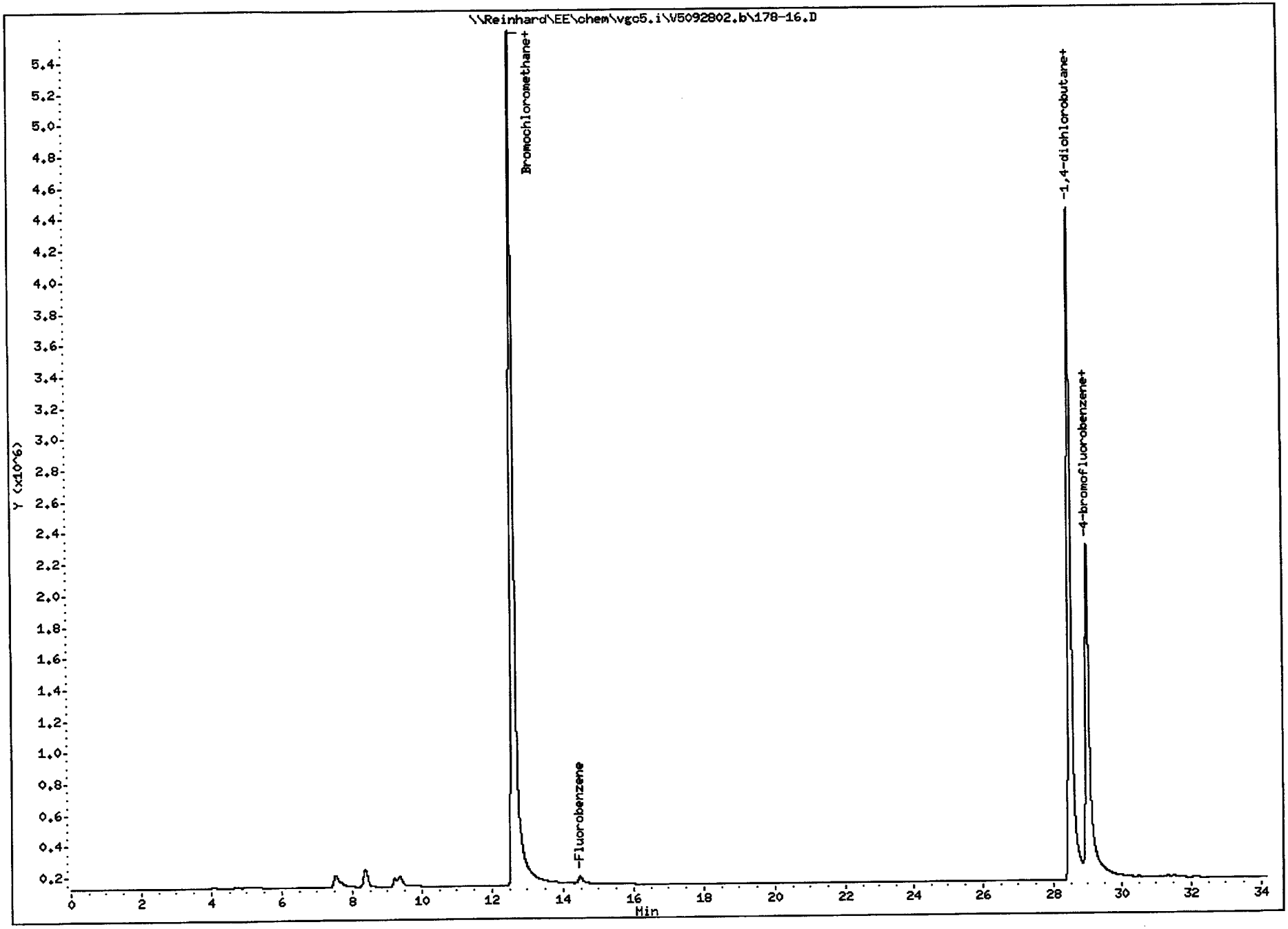
Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	Final Volume
Vo	5.000	Sample Volume

Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 21 Fluorobenzene	FID2B	14.446	14.440	(1.000)	567644	30.0000	
26 Toluene	FID2B	18.936	18.930	(1.311)	5087	0.21083	0.21(a)
$ 39 4-bromofluorobenzene	FID2B	28.970	28.966	(2.005)	633477	27.7991	27.8

QC Flag Legend

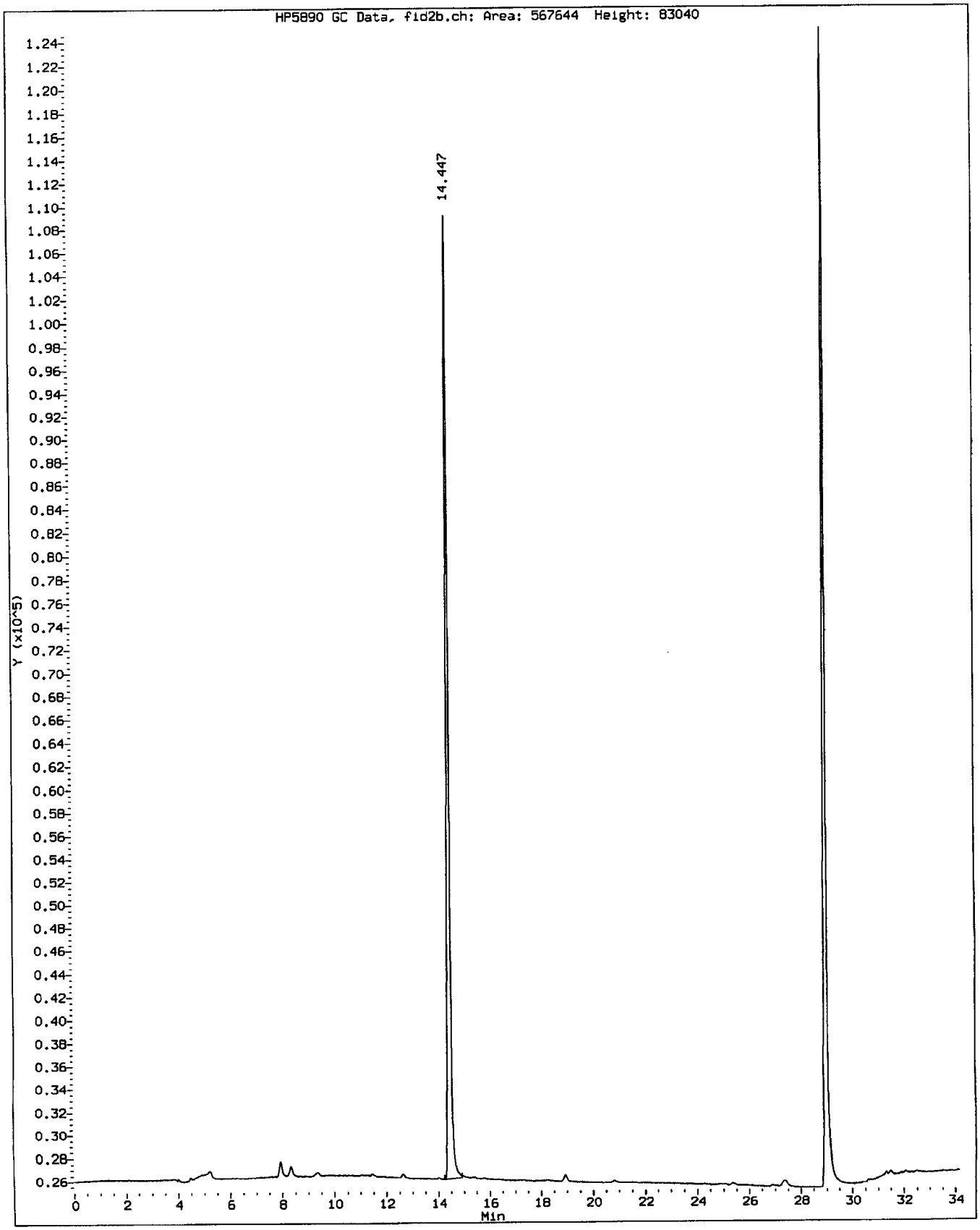
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\Reinhard\EE\chem\vgc5.i\V5092802.b\178-16.D

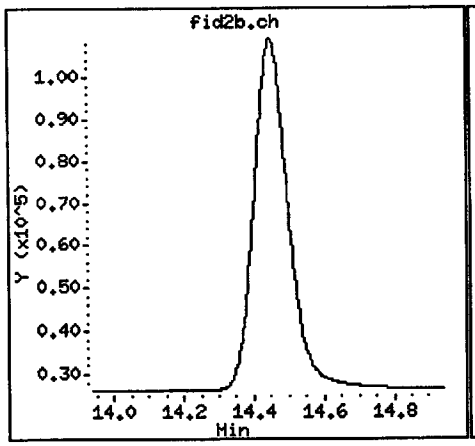


Data File: \\Reinhard\EE\chem\vgc5.i\V5092802.b\178-16.D
Injection Date: 28-SEP-2002 18:04
Instrument: vgc5.i
Client Sample ID: 062EQBQ302

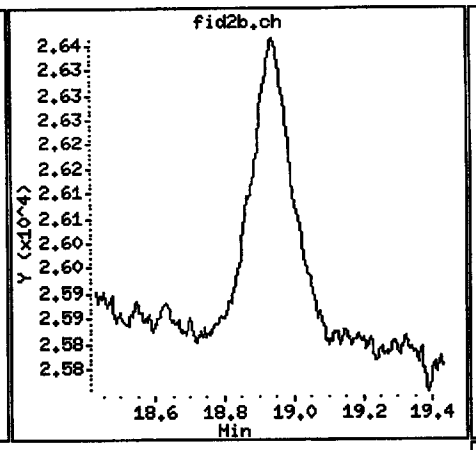
Compound: Fluorobenzene
CAS Number: 462-06-6



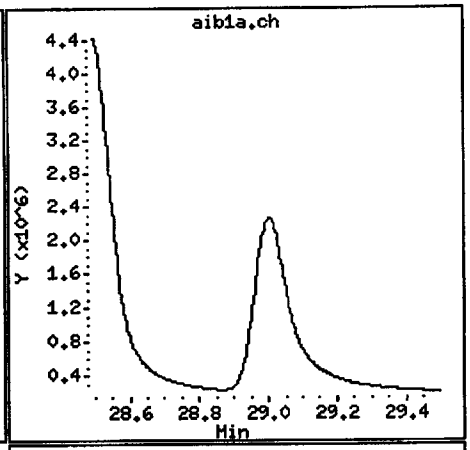
× 21 Fluorobenzene

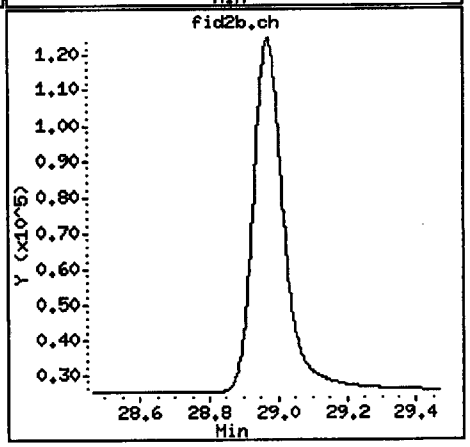


26 Toluene



$ 39 4-bromofluorobenzene





Data File: \\REINHARD\ee\chem\vgc5.i\V5092802.b\178-13R.D
Report Date: 04-Oct-2002 12:51

PEL Laboratories, Inc.

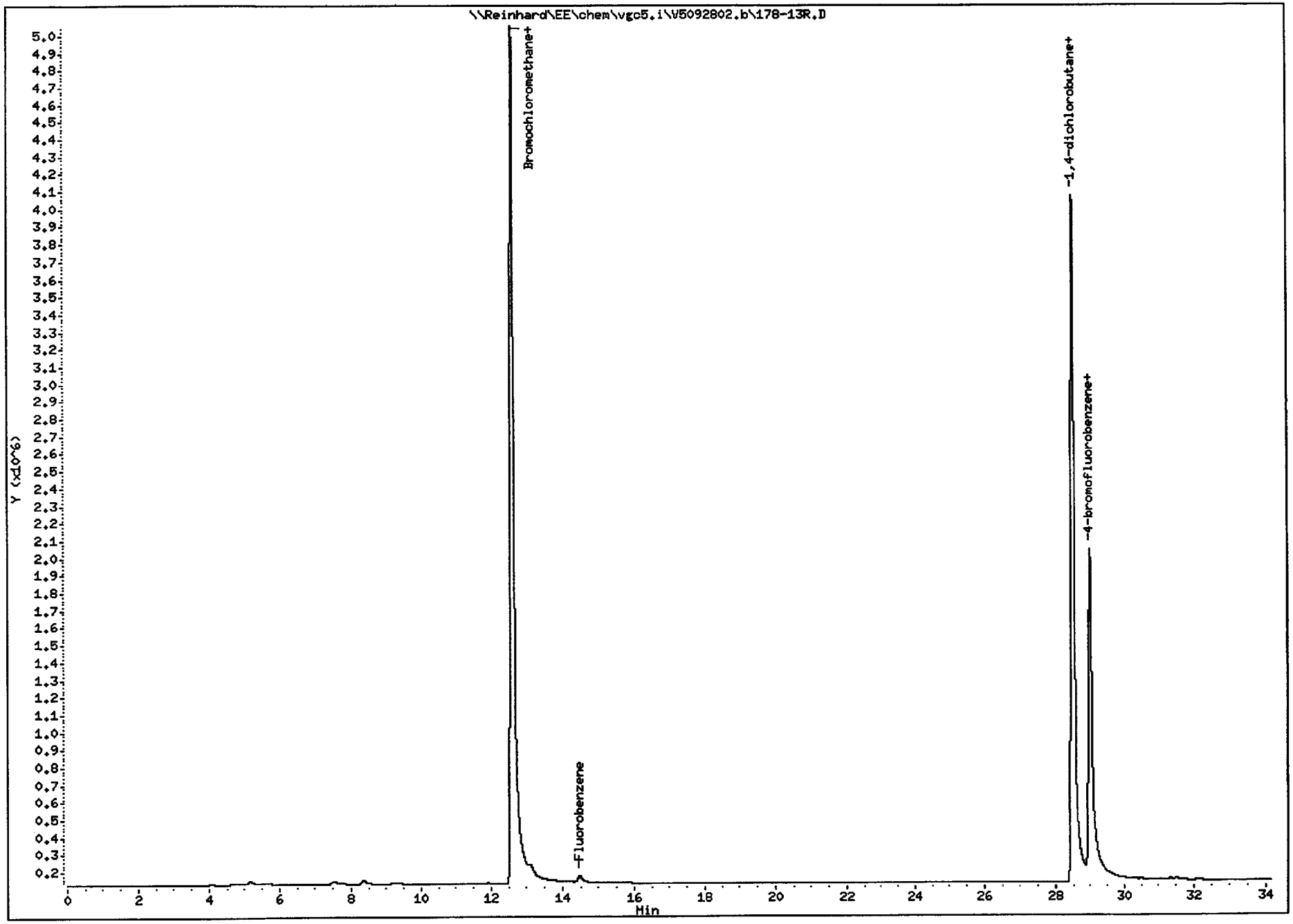
Data file : \\REINHARD\ee\chem\vgc5.i\V5092802.b\178-13R.D
Lab Smp Id: 220917813 Client Smp ID: 062VEW7Q302
Inj Date : 28-SEP-2002 18:47
Operator : EB Inst ID: vgc5.i
Smp Info : 220917813
Misc Info :
Comment :
Method : \\Reinhard\ee\chem\vgc5.i\V5092802.b\8021.m
Meth Date : 04-Oct-2002 12:49 mjacobs Quant Type: ISTD
Cal Date : 07-SEP-2002 19:18 Cal File: 100PPB.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: mbtexrl.sub
Target Version: 4.04
Processing Host: REINHARD

Concentration Formula: Amt * DF * Vf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	Final Volume
Vo	5.000	Sample Volume

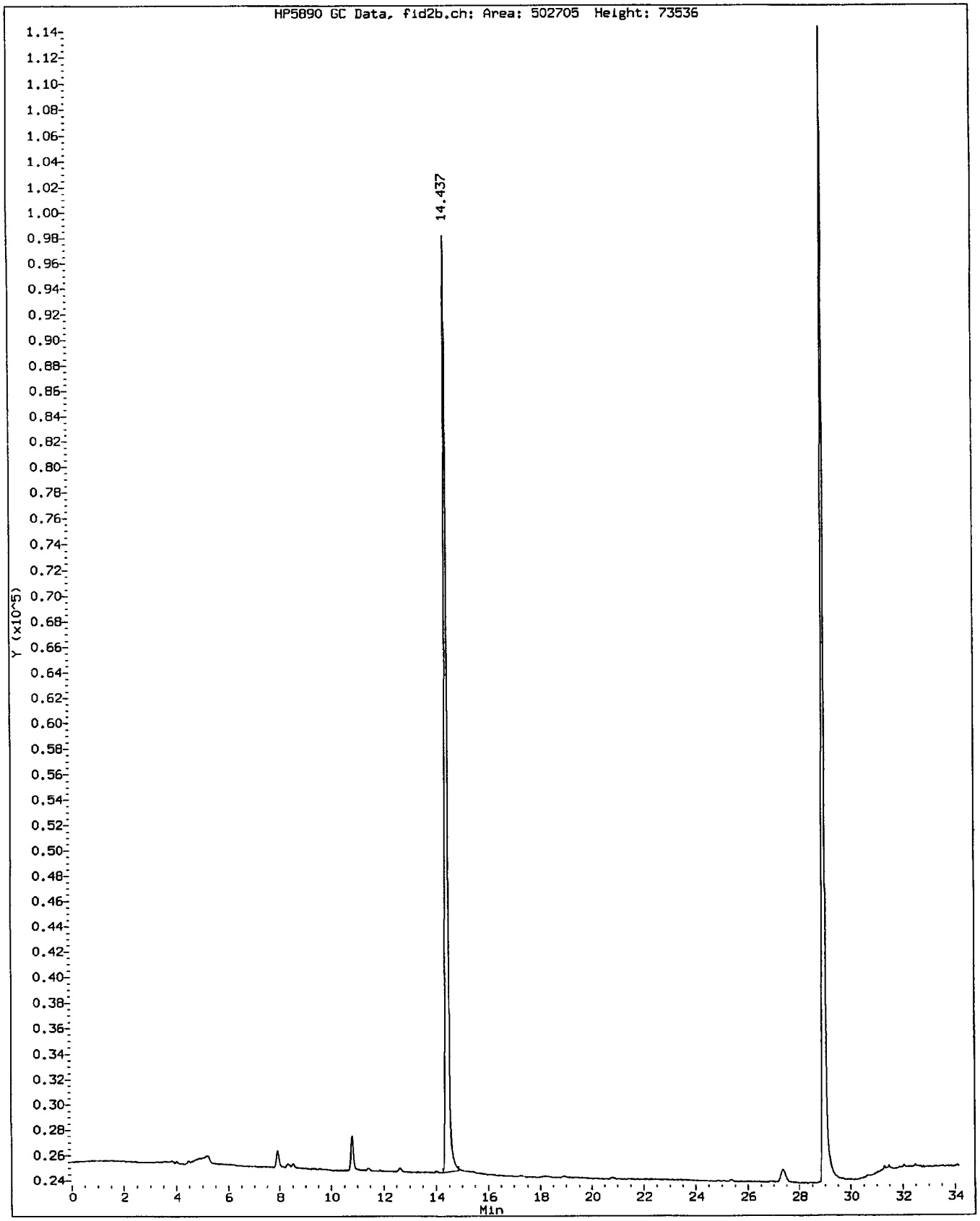
Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 21 Fluorobenzene	FID2B	14.436	14.440	(1.000)	502705	30.0000	
$ 39 4-bromofluorobenzene	FID2B	28.960	28.966	(2.006)	574392	28.4623	28.5

Data File: \\Reinhard\EE\chem\vgc5.i\V5092802.b\178-13R.D

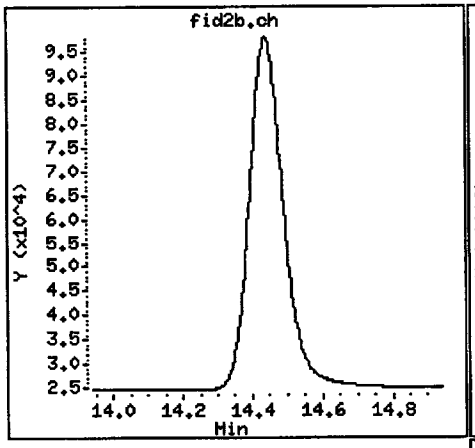


Data File: \\REINHARD\ee\chem\vgc5.i\V5092802.b\178-13R.D
Injection Date: 28-SEP-2002 18:47
Instrument: vgc5.i
Client Sample ID: 062VEW7Q302

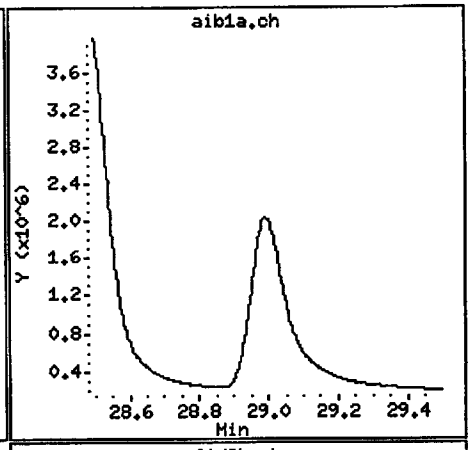
Compound: Fluorobenzene
CAS Number: 462-06-6

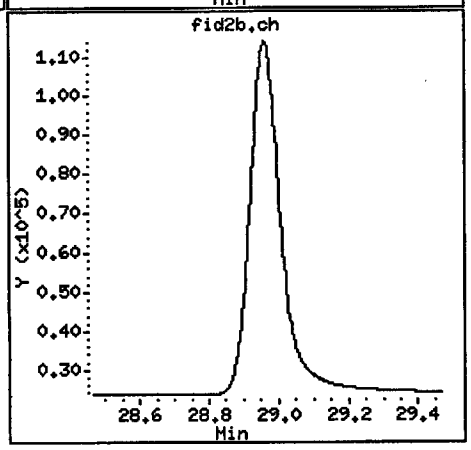


× 21 Fluorobenzene



$ 39 4-bromofluorobenzene





Data File: \\REINHARD\ee\chem\vgc5.i\V5092802.b\CCV53.D
Report Date: 04-Oct-2002 12:51

PEL Laboratories, Inc.

Data file : \\REINHARD\ee\chem\vgc5.i\V5092802.b\CCV53.D
Lab Smp Id: 092802CCVA53 Client Smp ID: 092802CCVA53
Inj Date : 28-SEP-2002 20:12
Operator : EB Inst ID: vgc5.i
Smp Info : 092802CCVA53
Misc Info :
Comment :
Method : \\Reinhard\ee\chem\vgc5.i\V5092802.b\8021.m
Meth Date : 04-Oct-2002 12:51 mjacobs Quant Type: ISTD
Cal Date : 07-SEP-2002 19:18 Cal File: 100PPB.D
Als bottle: 14 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: mbtexrl.sub
Target Version: 4.04
Processing Host: REINHARD

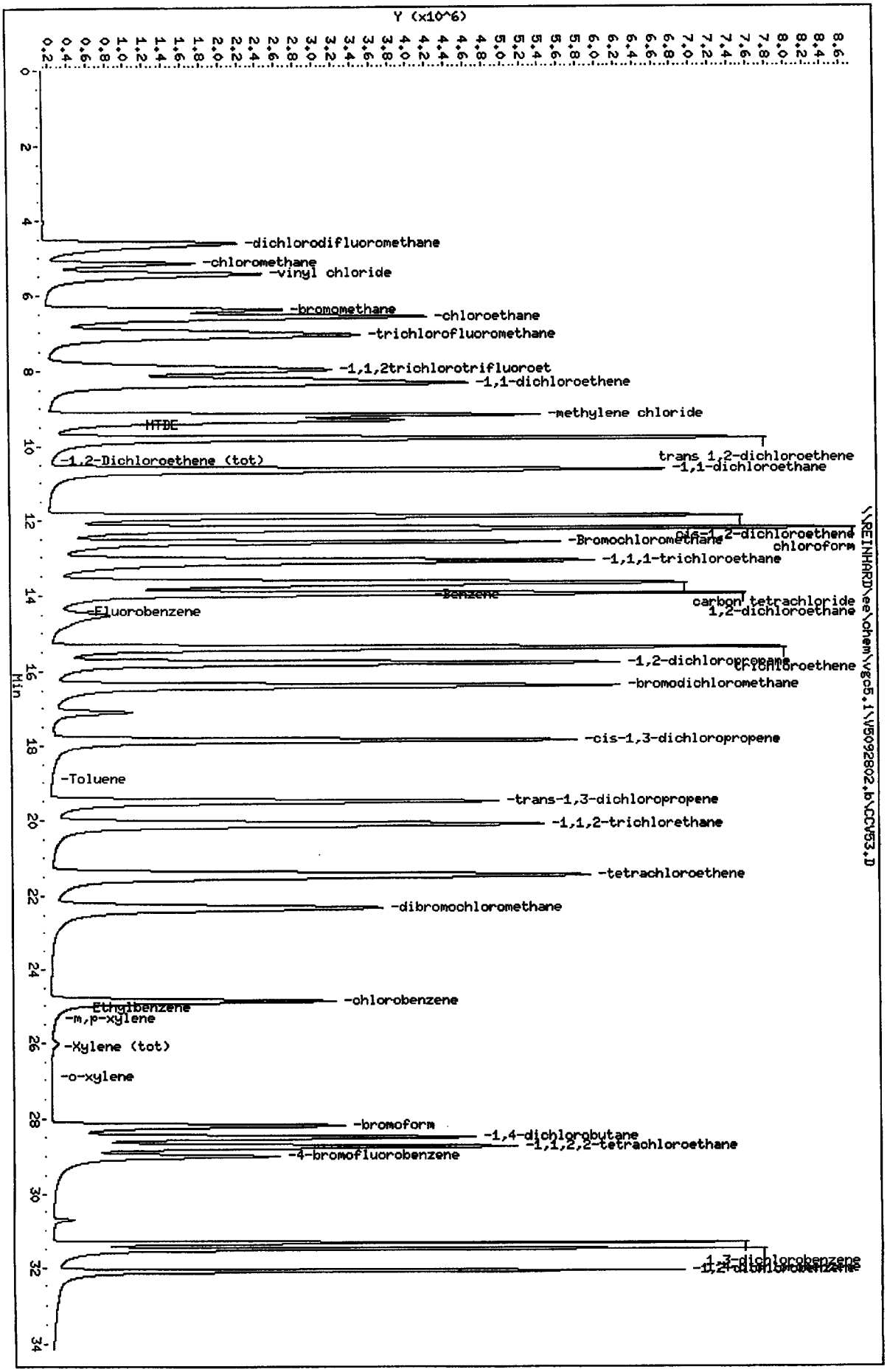
Concentration Formula: Amt * DF * Vf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	Final Volume
Vo	5.000	Sample Volume

Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
10 MTBE	FID2B	9.440	9.440	(0.654)	320925	30.0000	33.5
20 Benzene	FID2B	14.003	14.003	(0.970)	857955	30.0000	31.4
* 21 Fluorobenzene	FID2B	14.433	14.433	(1.000)	567320	30.0000	
26 Toluene	FID2B	18.916	18.916	(1.311)	800325	30.0000	33.2
32 Ethylbenzene	FID2B	25.053	25.053	(1.736)	743783	30.0000	32.8
33 m,p-xylene	FID2B	25.346	25.346	(1.756)	1588514	60.0000	64.8
35 o-xylene	FID2B	26.926	26.926	(1.866)	659651	30.0000	32.1
M 34 Xylene (tot)	FID2B				2248165	90.0000	96.9
$ 39 4-bromofluorobenzene	FID2B	28.963	28.963	(2.007)	690843	30.0000	30.3

Data File: \\REINHARD\ee\chem\vgc5.i\V5092802.b\CCV53.D
Date : 28-SEP-2002 20:12
Client ID: 092802CCVA53
Sample Info: 092802CCVA53
Purge Volume: 5.0
Column phase: RTX 502.2

Instrument: vgc5.i
Operator: EB
Column diameter: 0.53



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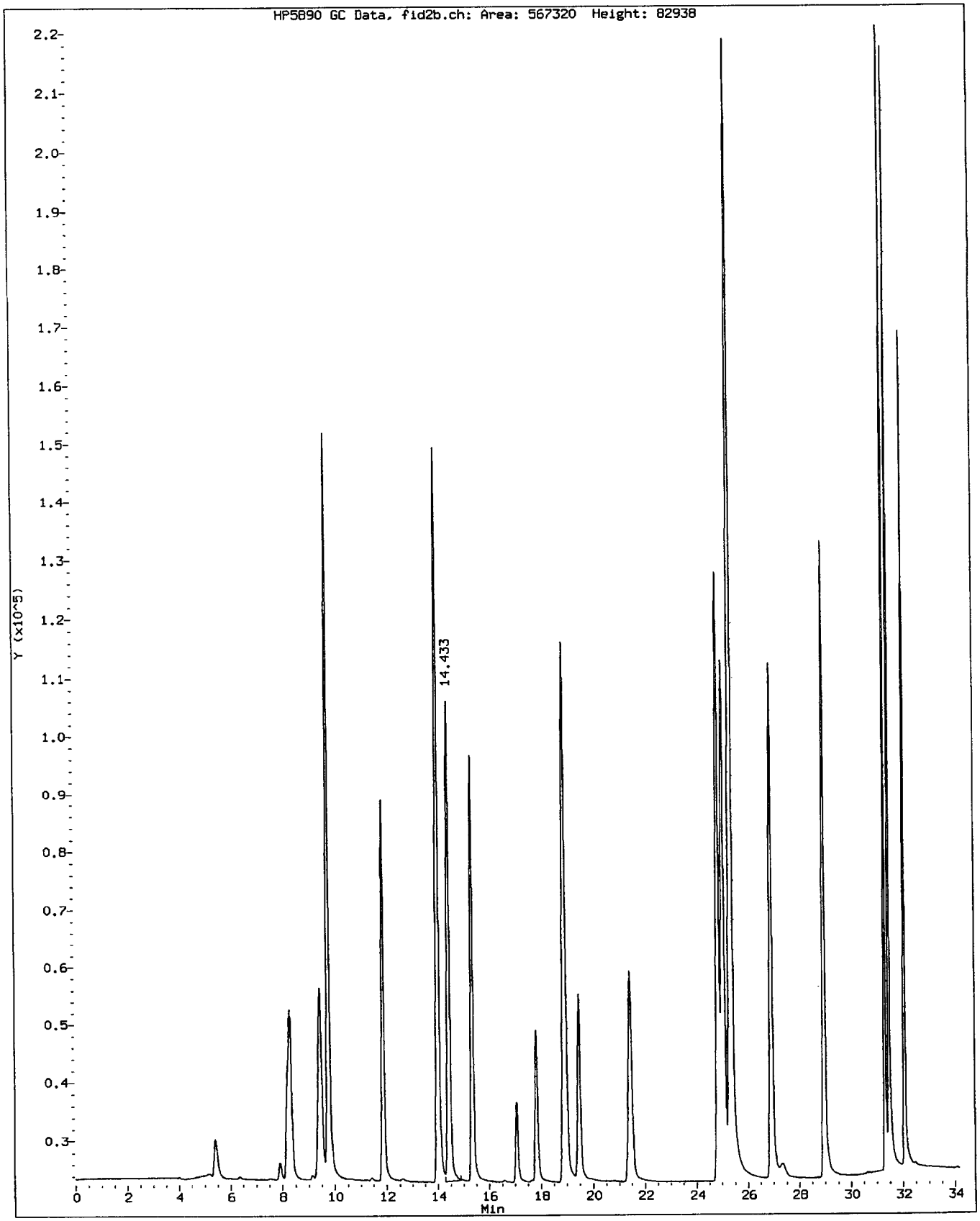
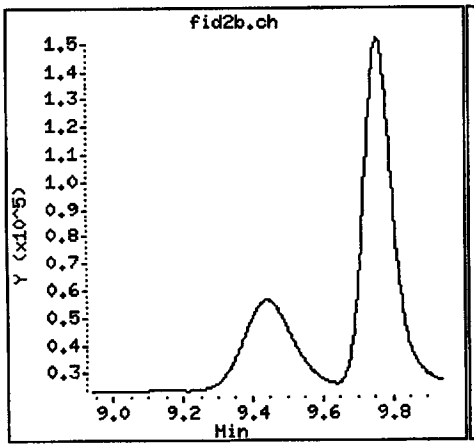
Injection Date: 28-SEP-2002 20:12
Instrument: vgc5.i
Client Sample ID: 092802CCVA53

Compound: Fluorobenzene
CAS Number: 462-06-6

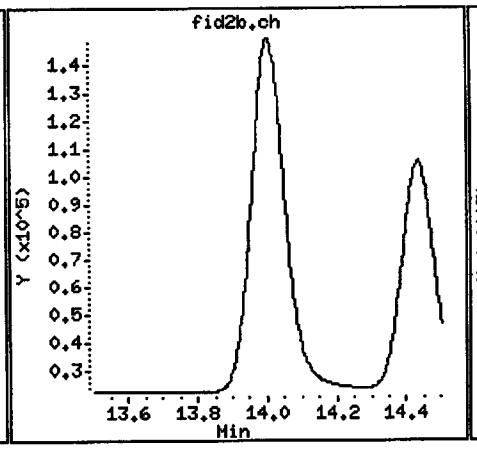


Data File: \\Reinhard\EE\chem\vgc5.i\V5092802.b\CCV53.D

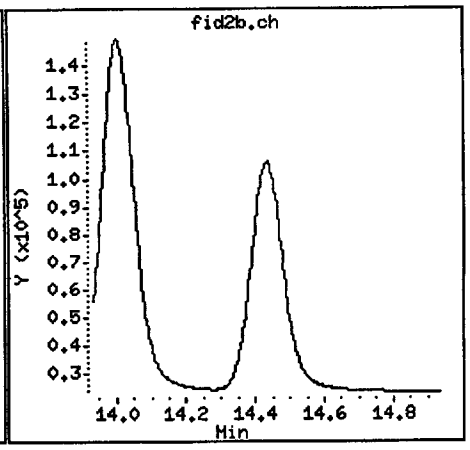
10 MTBE



20 Benzene

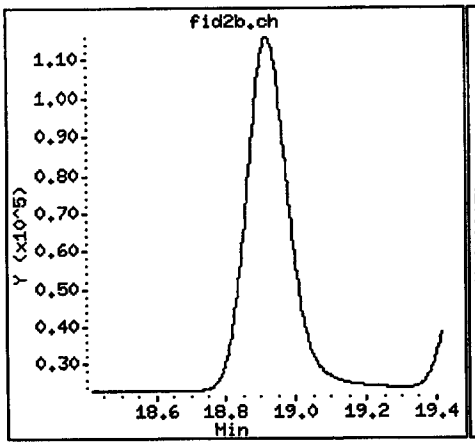


* 21 Fluorobenzene

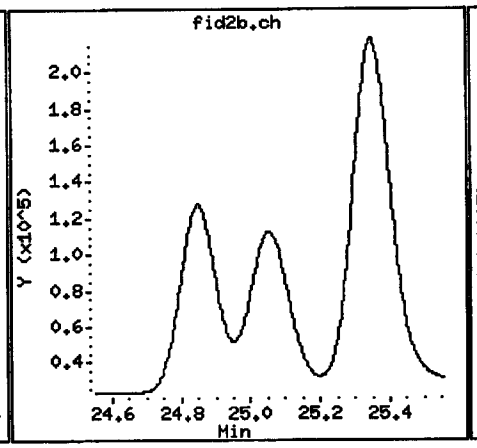


Data File: \\Reinhard\EE\chem\vgc5.i\V5092802.b\CCV53.D

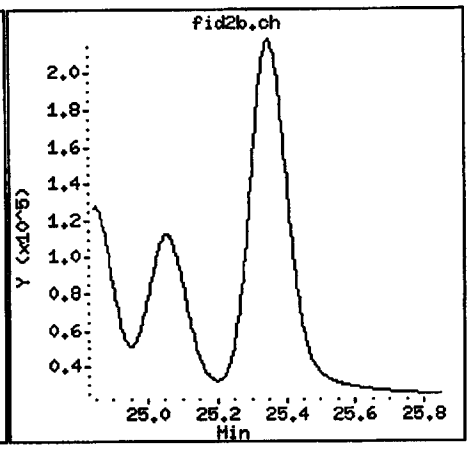
26 Toluene



32 Ethylbenzene

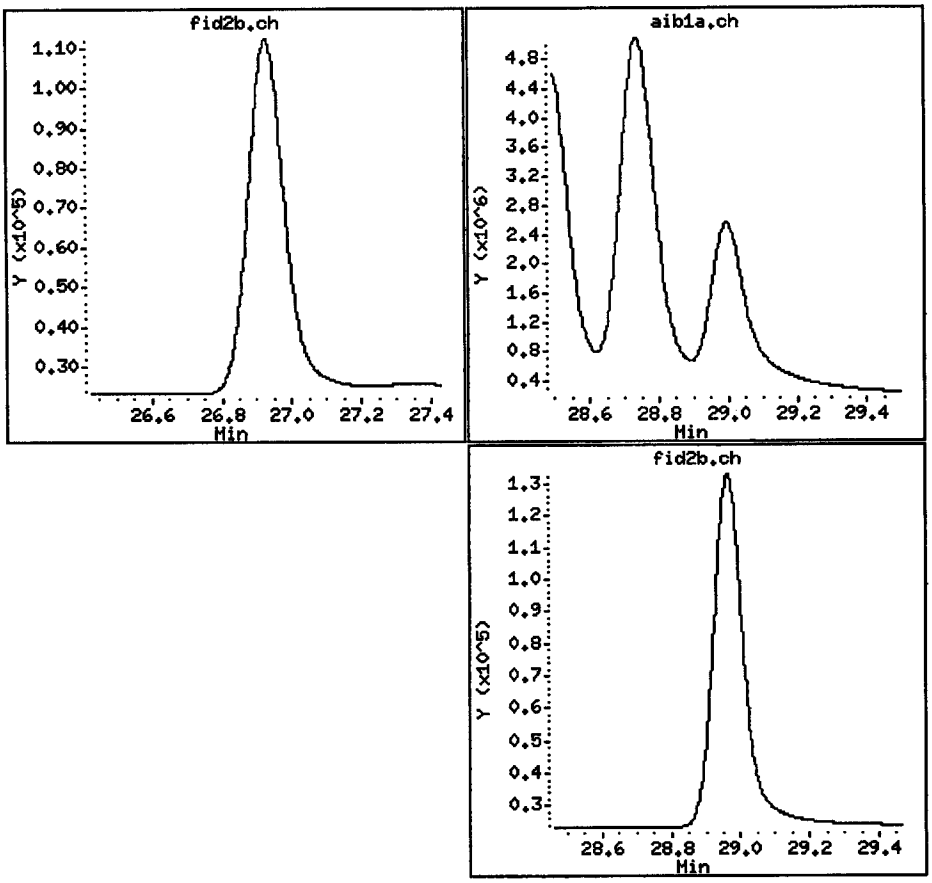


33 m,p-xylene



35 o-xylene

$ 39 4-bromofluorobenzene



2209-178
Raw Data
HPLC PAH Organics
(Method 8310)

Extraction/Analysis Method: 3510/8310

PEL LABORATORIES, INC.

DATE: 9/26/02 aut

Batch # 4961

Sample Number	BLK	LCS	RWMS	RWMSD	2209178 -5MS	-6SD	-1	-2	-3	-4
Sample Date					9.23.02	→	9.24.02	9.23.02	→	→
Description					CH2MH111 062MN20 Q302MS	→ Q302SD	062MW 4Q302	9Q302	13Q302	20Q302
Odor		DI H_2O			None	→	→	→	Slight Solvent	None
Color					Yellowish	→	Yellow	→	hazy	Yellowish
Sed.					None	→	→	→	→	→
Vol./ Wt.	1000	1000	1000	1000	970	970	990	950	950	980
pH	7	→	→	→	→	→	→	→	→	→
Surrogate ID mg 9/26/02	SV6582	1ml @ 20µg/mL	→	→	→	→	→	→	→	→
Spike ID	NA	SV6162	1mL @ 10µg/mL	→	→	→	NA	→	→	→
ISTD	NA	→	→	→	→	→	→	→	→	→
Final Solvent	ACN	→	→	→	→	→	→	→	→	→
Final Vol. (ml)	1.0mL	→	→	→	→	→	→	→	→	→
Date Completed/By:	9/26/02 aut	→	→	→	→	→	→	→	→	→
Remarks										
Stock Loc. Box/Row	S 13	→	→	→	→	S 14	→	→	→	→
Spike Witness		mg	mg	mg	mg	mg				

(T.V. = 50°C)

Base Lot # NA

Acid Lot# NA

Extraction Lot # 05652F DCM (B+J)

Final Solvent Lot # 05677F ACN (B+J)

Bath Temp 49°C (61071-241)

Extraction/Analysis Method: 3510/8310

PEL LABORATORIES, INC.

Batch # 4961

DATE: 9/26/02 aut

Sample Number	2209178 -7	-8	-9	-10	-11	-12	-13	-14	-15	-16
Sample Date	9.23.02						9.24.02	9.23.02		
Description	CH2MHill 062MW 22Q302	062VEW 2Q302	3Q302	4Q302	5Q302	6Q302	7Q302	8Q302	062DUP Q302	062EQBQ 302
Odor	None	Slight Solvent	None							
Color	Brown Tint	Yellow	Brownish	Yellow Tint			Brown		Yellow	Clear
Sed.	None									
Vol./ Wt.	950	960	960	940	950	940	940	940	960	940
pH	7									
Surrogate ID 9/26/02	SV6582	1ml @ 20 µg/ml								
Spike ID	NA									
ISTD	NA									
Final Solvent	ACN									
Final Vol. (ml)	1.0mL									
Date Completed/By:	9.26.02 aut									
Remarks										
Stock Loc. Box/Row	S,4					S,5				
Spike Witness										

(T.V. = 50°C)

Base Lot # NA

Acid Lot# NA

Extraction Lot # 05652F DCM (B+J)

Final Solvent Lot # 05677F ACN (B+J)

Bath Temp 49°C

(61071-241)

LC1 P310 AE L1091902 9.19.02 AB LC

1	SV6094	30 ppb	
2	SV6101	15 ppb	
3	SV6511	Cal 1	
4	10	2	
5	09	3	
6	08	4	
7	07	5	
8	06	6	
9	05	7	
10	12	SECCCV	
21	SHUT		

Good curve

AB

9.23.02

LC1 8310 AE L1092702 9.27.02 AS

21 SV6507 CCV 11 & CCV 12
1 926 BIK
2 926 LCS
3 2209 180-2 DL1
4 2209 178-5 MS
5 -6 SD
6 -1
7 -2
8 -3
9 -4 AS
10 ~~-5~~ -7
21 SV6507 CCV 2
11 2209 178 -8
12 -9
13 -10
14 -11
15 -12
16 -13
17 -14
18 -15
19 -16
21 SV6507 CCV 3
21 SHUT

9.30.02 AS

Good

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
SV6575	9/25/02	KB	Chlordane Cal 1	Lot: SV6059 Man:	Rec'd: Exp 10/25/02	Hexane JT Baker V44E02	5 µl	1 mL	0.05 µg/mL	
SV6576	↓	↓	8081 SLC	Lot: SV5399 Man:	Rec'd: Exp: 10/25/02	↓	60 µl	1 mL	0.06 µg/mL	
SV6577	↓	↓	Tox SLC	Lot: SV6076 Man:	Rec'd: Exp:	↓	100 µl	1 mL	1.0 µg/mL	
SV6578	9/25/02	TS	DRO SLC CCV	Lot: SV6459 OTP SV6551A C30 SV4146B Man:	Rec'd: Exp: 10/25/02	DCM CF780 B+J	50 ul 100 ul 10 ul	1 ml	500 ug/ml	[redacted]
SV6579	9/25/02	TS	DRO WKG SURR.	Lot: SV6459G (OTP) SV6551D (C-30) Man:	Rec'd: Exp: 12/25/02	DCM CF780 B+J	500 ul 1000 ul	10 mL	100 ug/ml	LAC consumed 10-2-02
SV6580	9/25/02	TS	DRO WKG SPK	Lot: SV6537 Man:	Rec'd: Exp: 12/25/02	↓	1.0 ml	10 ml	500 ug/ml	LAC consumed 10-2-02
SV6581	9/26/02	TS	FL PRO C-39 WKG SURR.	Lot: SV6374G Man: ↓ f H I	Rec'd: Exp: 12/26/02	↓	5.0 ml	50 ml	600 ug/ml	
SV6582	9/26/02	[illegible]	8310 working Surrogate	Lot: SV5587G Man: Ultra	Rec'd: Exp: 12-26-02	~~[illegible]~~ ACN CF346 B+J	1.0 ml	100 ml	20 µg/ml	
SV6583	9/27/02	[illegible]	8270 6 (#) Special Cmpd MDL Spike 2 ppm	Lot: SV3507B SV3403A Man:	Rec'd: Exp: 3-27-03	DCM CF780 B+J	10 µl 200 µl	10 ml	2 µg/ml	

(Benzene + Biphenyl etc).

[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
SV5586	7/18/02	LM	8310 working Surr	Lot: SV4947H Man:	Rec'd: Exp:	ACN	1.0mL	100mL	20ug/mL	[redacted]
SV5587A	7/18/02	TS	8310 STOCK SURROGATE ATS-160	Lot: S-1237 Man: VITRA 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:	↓	↓	↓	↓	

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: SV3030E 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 CCV	Lot: ~~SV4835B~~ ~~SV4602~~ TS 8/6/02 SV3760B SV4052A Man:	Rec'd: — Exp:	ACN CF346 B&J	37.5 75ul 75ul	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
8-4-02 SV6164C				Lot: Man:	Rec'd: Exp:	—	—			
8/14/02 SV6164D				Lot: Man:	Rec'd: Exp:	—	—			
8-3-02 SV6164E				Lot: Man:	Rec'd: Exp:	—	—			

[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.	Disca
SV4713	3/22/02	LK	8082 Cal 1	Lot: SV 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	JMD	OTP - Working surr.	Lot: SV 3332D SV 4093L SV 3720A Man:	Rec'd: — Exp:	DCM X0E417	5mL	100 mL	100 µg/mL	
SV 4716 A.B	↓	↓	C-39 Working surr.	Lot: SV 4092 70-72 73-81 Man:	Rec'd: — Exp:	↓	15 mL	50 mL	600 µg/L	
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				2.0mg/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				2.0mg/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:	BTS Brand Hex V33E49	1mL	10mL	10 µg/mL	
SV4720	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

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: B00410334 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: B2020291 Man: AccuSTD	Rec'd: 7/11/02 Exp: 7/10/03				35ug/mL	
SV5534	7/11/02	LM	8141 A Calmix6	Lot: A SS IS Man:	Rec'd: Exp:	Hexane B&J V44E02	100 ul 20 ul 20 ul	1mL	10ug/mL	
SV5535	7/11/02	LM	8141A calmix5	Lot: Man:	Rec'd: Exp:		80 ul 16 ul 20 ul	1mL	8 ug/mL	
SV5536	7/11/02	LM	8141A calmix4	Lot: Man:	Rec'd: Exp:		50 ul 10 ul 20 ul	1mL	5 ug/mL	
SV5537	7/11/02	LM	8141 A calmix3	Lot: Man:	Rec'd: Exp:		20 ul 4 ul 20 ul	1mL	2 ug/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 A Calmix1	Lot: Man:	Rec'd: Exp:		5 ul 1 ul 20 ul	1mL	0.5 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
SV 5085 A-E	5/16/02	(JH)	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	(JH)	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	(JH)	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	(JH)	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: SV 4726 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

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
SV6513	9/17/02	[illegible]	8310 TOP Std Internal.	Lot: mix 5, SV5132 1-M SV5556B 2-M SV5183 AT3160 SV5587H Man:	Rec'd: 2000 mg/ml Exp: 12.17.02	ACW ~~OS544f~~ OS544f	250 ml each	5 ml	100 mg/ml	
SV6514	9/17/02	[illegible]	AP9 SPIKE (PCL)	Lot: SV3758B SV5082C ~~SV5085C~~ SV5085C Man: [illegible] 9/17/02	Rec'd: — Exp:	DCM CF780 B+J	800 ul & each.	10 ml	160 ug/ml.	
SV6515	9/17/02	TT	Fl Pro SEC CLV	Lot: SV6459F SV52780 SV4697C Man:	Rec'd: Exp: 3/16/03	DCM CF780 B+J	25 ul 50 ul 300 ul	1 ml	150 ug/ml	TT 10/4/02
SV6516	9/18/02	[illegible]	8270 TOP	Lot: SV3160G, SV3159G SV5435A, SV4341B, SV4885, SV4081B, SV4856A, SV4080C, SV4884B, SV4343B SV4392B, SV4292B Man: SV4293B, SV3758C	Rec'd: — Exp:	DCM CF780 B+J	500 ul & SV3160G, SV3159G & SV5435A. 250 ul & all others.	5 ml	100 ug/ml.	
SV6517			8270 100 STD	Lot: SV6517 Man:	Rec'd: — Exp:		1 ml	1 ml	100 ug/ml	
SV6518			8270 75 STD	Lot: Man:	Rec'd: — Exp:		750 ul.	1 ml	75 ug/ml	
SV6519			8270 60 STD	Lot: Man:	Rec'd: — Exp:		600 ul	1 ml	60 ug/ml.	
SV6520			8270 45 STD	Lot: Man:	Rec'd: — Exp:		1800 ul	4 ml	45 ug/ml	
SV6521	✓		8270 20 STD	Lot: ✓ Man:	Rec'd: — Exp:	✓	200 ul.	1 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
SV6504	9/17/02	AS	8310 TOP std Intermediate	Lot: Mix 5 SV5132, 2-m NAP SV5183, 1-m NAP SV5556B, AS3160 SV5587H Man:	Rec'd: 2000 mg/ml Exp: 12·17·02	ACN OS544f	~~ACN AS~~ 250 ml each	5 ml	100 mg/ml	AS 9/17/02
SV6505			8310 cal std @ 30 ppb	Lot: SV6513 ~~SV6504~~ AS Man:	Rec'd: Exp: 12·17·02		1.5 ml		30 µg/ml	
SV6506			8310 cal std @ 20 ppb	Lot: Man:	Rec'd: Exp:		1.0 ml		20 µg/ml	
SV6507			15 ppb	Lot: Man:	Rec'd: Exp:		750 ml		15 µg/ml	
SV6508			10 ppb	Lot: Man:	Rec'd: Exp:		500 ml		10 µg/ml	
SV6509			5 ppb	Lot: Man:	Rec'd: Exp:		250 ml		5 µg/ml	
SV6510			1 ppb	Lot: Man:	Rec'd: Exp:		50 ml		1 µg/ml	
SV6511			.2 ppb	Lot: Man:	Rec'd: Exp:		10 ml		.2 µg/ml	
SV6512			8310 SEC CCV	Lot: 1-m SV3760B, AR Hydro SV4052A, AS160 SV5587H Man:	Rec'd: Exp:		37.5 ml, 75 ml, 75 ml		15 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
SV5126	5/27/02		8270 45 STD	Lot: SV5723 Man:	Rec'd: Exp:	DCM X05E07 B+J	1800 ul	4 ml	45 ug/ml	
SV5127			8270 20 STD	Lot: Man:	Rec'd: Exp:		200 ul	1 ml	20 ug/ml	
SV5128			8270 10 STD	Lot: Man:	Rec'd: Exp:		100 ul	1 ml	10 ug/ml	
SV5129			8270 5 STD	Lot: Man:	Rec'd: Exp:		50 ul	1 ml	5 ug/ml	
SV5130			8270 45 SEC	Lot: SV4865A Man:	Rec'd: — Exp:		300 ul	1 ml	45 ug/ml	
SV5131	5/28/02		DFTPP TUNING SOLUTION	Lot: SV3337 Man:	Rec'd: Exp: 11-01-02	DCM X05E07 B+J	250 ul	10 ml	25 ug/ml	
SV5132	5/28/02		CU CALIBRATION MIX #5	Lot: A022377 Man: RESTEK	Rec'd: 5/28/02 Exp: 4/05	—	—	1 ml	2000 ug/ml	
SV5133 A→D	5/28/02						—	1 ml	1000 ug/ml	
SV5134 A→D	5/28/02						—	1 ml	200 ug/ml	SV5134-C ul/o

3,4-Dinitrotoluene Solution 1000 ug/ml.
IST-590 1 mL
Lot No. S-1018 Exp. Date 09/2005
ULTRA SCIENTIFIC North Kingstown, RI 401-294-9400
LAB USE ONLY

ULTRA SCIENTIFIC 250 Smith St., North Kingstown, RI 02852 401-294-9400
Organophosphorous Pesticides Mixture
200 ug/mL each in Acetone
SPM-614 1 mL
Lot No. S-0674 Exp. Date 06/2004
LAB USE ONLY

6-3-02

[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
SV5549	7/12/02	KB	HBB/PBB Cal 4	Lot: Man:	Rec'd: Exp:	Hexane BPJ V44E02	100 µl	1.0 mL	1.0 µg/mL	KB 7/25/02
SV5550	7/12/02	KB	HBB/PBB Cal 3	Lot: Man:	Rec'd: Exp:	↓	50 µl	1.0 mL	0.5 µg/mL	KB 7/25/02
SV5551	7/12/02	KB	HBB/PBB Cal 2	Lot: Man:	Rec'd: Exp:	↓	10 µl	1.0 mL	0.1 µg/mL	KB 7/25/02
SV5552	7/12/02	KB	HBB/PBB Cal 1	Lot: Man:	Rec'd: Exp:	↓	5 µl	1.0 mL	0.05 µg/mL	KB 7/25/02
A,B 9-12-02 LM SV5553 A-D	7/15/02	LM	8141 TPP surr	Lot: M-4287 Man: Ultra	Rec'd: 7/15/02 Exp: 2/04				500ug/mL	
B-9-12-02 LM SV5554 A-D	7/15/02	LM	8141 Organophos Pest Mix	Lot: S-0674 Man: ~~Accustandard~~ Ultra	Rec'd: 7/15/02 Exp: 1/04				200ug/mL	
SV5555	7/15/02	KB	PEM	Lot: SV3718A SV5359 Man:	Rec'd: Exp: 8/15/02	Hexane BPJ V44E02	50 µl 10 µl	1 mL	variable conc.	KB 8/20/02
SV5556 A-B	7/15/02	TS	1-METHYL NAPHTHALENE	Lot: B0090131-1A Man: ACCU STD	Rec'd: 7/15/02 Exp: 10/1/04	—	—	~~200ug/mL~~ TS 7/15/02	2000 ng/mL	B 9-17-02 TS
SV5557	7/15/02	LL	8082 CCV	Lot: SV4901 Man:	Rec'd: 8/15/02 Exp:	~~HEX~~ V44E02	100µL	1mL	1.0ng/mL	KB 9/28/02

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.	Discard
SV 5179	5/29/02	LM	Bolstar 8141 M-8140-02	Lot: B0110343-1A Man: ACCUSTD	Rec'd: 5/28/02 Exp: 6/1/05	—	—	—	1mg/mL	
5180	5/29/02	LM	8141 Chlorpyrifos M-8140-03	Lot: B2040116 Man: ACCUSTD	Rec'd: 5/28/02 ~~B2040116~~ LM Exp: 5/17/03	—	—	—	1mg/mL	
5181	5/29/02	LM	8141 Coumaphos M-8140-04	Lot: B0110345 Man: ACCUSTD	Rec'd: 5/28/02 Exp: 5/17/03	—	—	—	1mg/mL	
SV 5182	5/29/02	LM	FLPRO C-39 working	Lot: SV4951 A-D SV5135 H,I,J Man:	Rec'd: Exp:	DCM B+S X07E10	10mL	100mL	600ug/mL	
SV5183	5/29/02	TB	S-518B 2-M-NAPH	Lot: B0040334 Man: ACCUSTD	Rec'd: 5/29/02 Exp: 5/23/05	—	—	—	2.0mg/mL	AS 9.17.02
SV 5184	5/29/02	SGA	8082 Cal6	Lot: SV4901 Man:	Rec'd: — Exp: 10/30/02	Hexane	125ul	0.5ml	2.5ug/ml ~~2.5ug/ml~~ SGA ~~2.50ug/ml~~ SGA	6/21/02
SV 5185	5/29/02	SGA	8082 Cal5	Lot: SV4901 Man:	Rec'd: — Exp: 10/30/02	↓	100ul	0.5ml	2.0ug/ml	↓
SV5186	5/29/02	SGA	8082 Cal4	Lot: SV4901 Man:	Rec'd: Exp: 10/30/02	↓	100ul	1ml	1.0ug/ml	↓
SV 5187	5/29/02	SGA	8082 Cal3	Lot: SV4901 Man:	Rec'd: Exp: 10/30/02	↓	25ul	0.5ml	0.5ug/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.	Discarde
SV 4050	1/29/02	Rad	8310 1 Std	Lot: 4044 Man:	Rec'd: Exp: 072802	ACN C6052	0.050	5.0	1 ug/mL	TJ 7-18-
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 2000µg/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 1000µg/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: TPH ~~OTP~~ SV3891 I OTP SV 3908C 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.	Tested	Discarded
SV3758B	1/3/02	[illegible]	CUSTOM A29 MIX.	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: A02Ø779 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

POISON

FOR LABORATORY USE ONLY

STORAGE AMBIENT

Data File: \\SVHPLC\EE\chem\slc01.i\920CALaq.b\CAL1.D
Report Date: 07-Oct-2002 17:51

PEL Laboratories, Inc.

Data file : \\SVHPLC\EE\chem\slc01.i\920CALaq.b\CAL1.D
Lab Smp Id: SV6511 Client Smp ID: CAL1
Inj Date : 19-SEP-2002 18:54
Operator : MARTY Inst ID: slc01.i
Smp Info : SV6511
Misc Info :
Comment :
Method : \\SVHPLC\EE\chem\slc01.i\920CALaq.b\8310AE.m
Meth Date : 07-Oct-2002 17:51 amarty Quant Type: ESTD
Cal Date : 19-SEP-2002 18:54 Cal File: CAL1.D
Als bottle: 3 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			
11.876	11.860	(0.016)	VWD1A	1049	0.20000	0.20	80.00- 120.00	100.00	(M)
11.961	11.860	(0.101)	ADC1A	968			34.06- 51.09	92.28	
3 Acenaphthylene						CAS #: 208-96-8			
13.096	13.090	(0.006)	VWD1A	843	0.20000	0.20			(M)
4 1-Methyl naphthalene						CAS #: 90-12-0			
13.723	13.720	(0.003)	VWD1A	837			80.00- 120.00	100.00	(M)
13.804	13.720	(0.084)	ADC1A	2187	0.20000	0.20	111.10- 166.65	261.29	
5 2-Methyl naphthalene						CAS #: 91-57-6			
14.070	14.060	(0.010)	VWD1A	1305	0.20000	0.20	80.00- 120.00	100.00	
14.117	14.060	(0.057)	ADC1A	2290			69.76- 104.64	175.48	

Data File: \\SVHPLC\EE\chem\slc01.i\920CALaq.b\CAL1.D
Report Date: 07-Oct-2002 17:51

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		
14.403	14.396	(0.007)	VWD1A	649			80.00- 120.00	100.00
14.476	14.396	(0.080)	ADC1A	3205	0.20000	0.20	343.18- 514.77	493.84
7 Fluorene						CAS #: 86-73-7		
14.770	14.763	(0.007)	VWD1A	5840	0.20000	0.20		
8 Phenanthrene						CAS #: 85-01-8		
15.590	15.580	(0.010)	VWD1A	19470			80.00- 120.00	100.00
15.671	15.580	(0.091)	ADC1A	6773	0.20000	0.20	31.76- 47.65	34.79
9 Anthracene						CAS #: 120-12-7		
16.330	16.326	(0.004)	VWD1A	46536	0.20000	0.20	80.00- 120.00	100.00(M)
16.436	16.326	(0.110)	ADC1A	3172			1.56- 2.33	6.82
10 Fluoranthene						CAS #: 206-44-0		
17.156	17.156	(0.000)	VWD1A	3856	0.20000	0.20		(M)
11 Pyrene						CAS #: 129-00-0		
17.713	17.710	(0.003)	VWD1A	3263	0.20000	0.20	80.00- 120.00	100.00
17.792	17.710	(0.082)	ADC1A	22040			783.35-1175.02	675.45
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.766	18.760	(0.006)	VWD1A	3689	0.20000	0.20	80.00- 120.00	100.00
18.839	18.760	(0.079)	ADC1A	27361			1010.87-1516.30	741.69
13 Benzo(a)Anthracene						CAS #: 56-55-3		
19.543	19.543	(0.000)	VWD1A	10030	0.20000	0.20	80.00- 120.00	100.00
19.621	19.543	(0.078)	ADC1A	31860			416.49- 624.73	317.65
14 Chrysene						CAS #: 218-01-9		
19.963	19.960	(0.003)	VWD1A	12204			80.00- 120.00	100.00
20.044	19.960	(0.084)	ADC1A	11731	0.20000	0.20	133.58- 200.38	96.12
15 Benzo(b)Fluoranthene						CAS #: 205-99-2		
21.370	21.366	(0.004)	VWD1A	10258	0.20000	0.20	80.00- 120.00	100.00(M)
21.399	21.366	(0.033)	ADC1A	2024			14.18- 21.27	19.73
16 Benzo(k)Fluoranthene						CAS #: 207-08-9		
22.026	22.016	(0.010)	VWD1A	9672	0.20000	0.20	80.00- 120.00	100.00
22.091	22.016	(0.075)	ADC1A	5240			43.46- 65.19	54.18
17 Benzo(a)pyrene						CAS #: 50-32-8		
22.620	22.620	(0.000)	VWD1A	8855			80.00- 120.00	100.00
22.706	22.620	(0.086)	ADC1A	10643	0.20000	0.20	102.14- 153.21	120.19

Data File: \\SVHPLC\EE\chem\slc01.i\920CALaq.b\CAL1.D
Report Date: 07-Oct-2002 17:51

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		
23.723	23.703	(0.020)	VWD1A	1983			80.00- 120.00	100.00
23.799	23.703	(0.096)	ADC1A	9698	0.20000	0.20	526.68- 790.02	489.06
19 Benzo(ghi)Perylene						CAS #: 191-24-2		
24.383	24.366	(0.017)	VWD1A	4067	0.20000	0.20	80.00- 120.00	100.00(M)
24.447	24.366	(0.081)	ADC1A	3546			83.63- 125.44	87.19
20 Indeno(123cd)Pyrene						CAS #: 193-39-5		
24.890	24.873	(0.017)	VWD1A	10857	0.20000	0.20		(M)

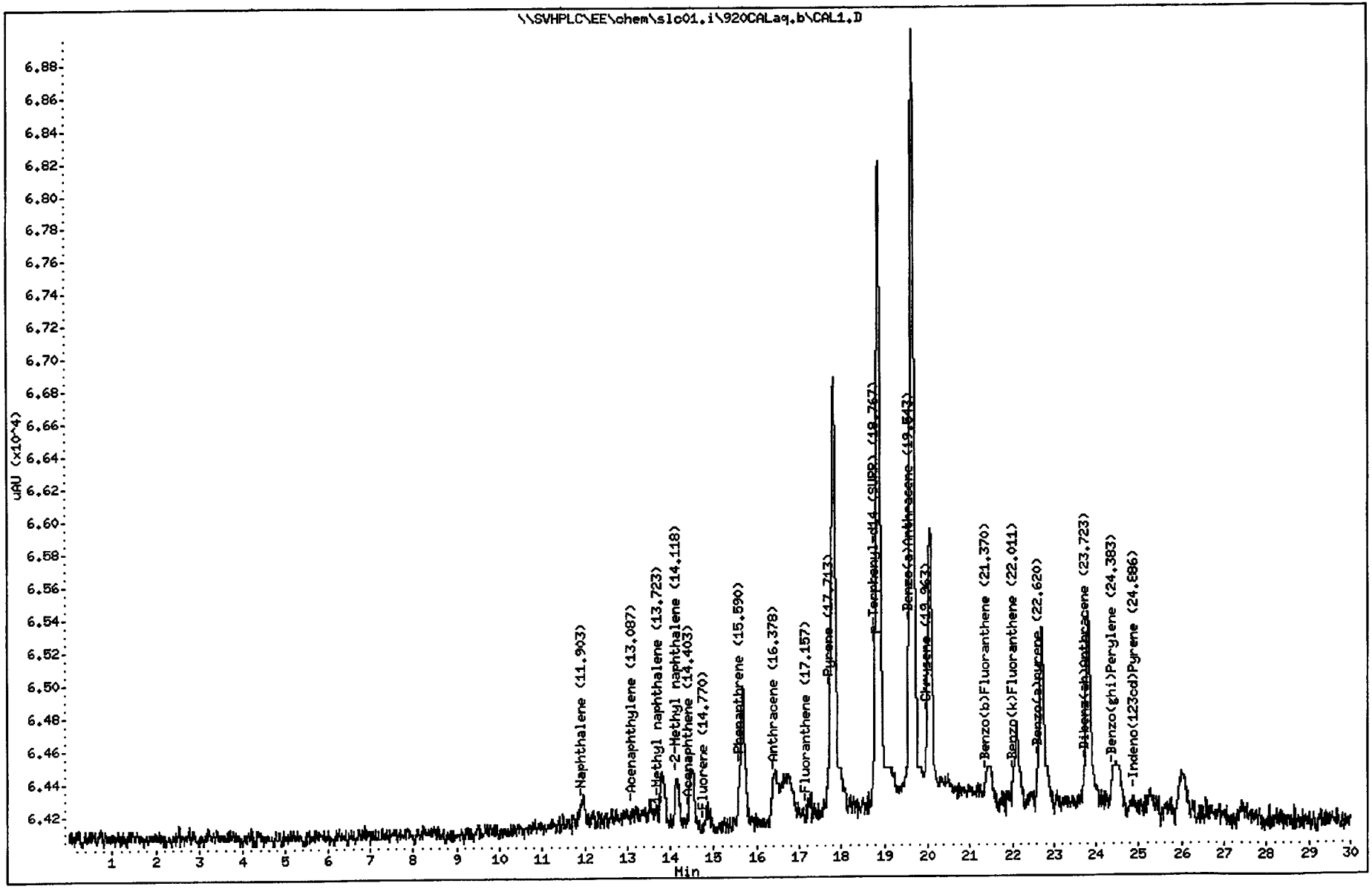
QC Flag Legend

M - Compound response manually integrated.

Data File: \\SVHPLC\EE\chem\slc01.i\920CALaq.b\CAL1.D
Date : 19-SEP-2002 18:54
Client ID: CAL1
Sample Info: SV6511
Purge Volume: 1000.0
Column phase: Vydac 201TP54

Instrument: slc01.i

Operator: MARTY
Column diameter: 4.60



Data File: \\SVHPLC\EE\chem\slc01.i\920CALaq.b\CAL2.D
Report Date: 07-Oct-2002 17:51

PEL Laboratories, Inc.

Data file : \\SVHPLC\EE\chem\slc01.i\920CALaq.b\CAL2.D
Lab Smp Id: SV6510 Client Smp ID: CAL2
Inj Date : 19-SEP-2002 19:29
Operator : MARTY Inst ID: slc01.i
Smp Info : SV6510
Misc Info :
Comment :
Method : \\SVHPLC\EE\chem\slc01.i\920CALaq.b\8310AE.m
Meth Date : 07-Oct-2002 17:51 amarty Quant Type: ESTD
Cal Date : 19-SEP-2002 19:29 Cal File: CAL2.D
Als bottle: 4 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

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		
11.860	11.860	(0.000)	VWD1A	5251	1.00000	1.0	80.00- 120.00	100.00(M)
11.907	11.860	(0.047)	ADC1A	3913			34.06- 51.09	74.52
3 Acenaphthylene						CAS #: 208-96-8		
13.090	13.090	(0.000)	VWD1A	4328	1.00000	1.0		
4 1-Methyl naphthalene						CAS #: 90-12-0		
13.720	13.720	(0.000)	VWD1A	3244			80.00- 120.00	100.00
13.799	13.720	(0.079)	ADC1A	5670	1.00000	0.94	111.10- 166.65	174.78
5 2-Methyl naphthalene						CAS #: 91-57-6		
14.060	14.060	(0.000)	VWD1A	4480	1.00000	0.98	80.00- 120.00	100.00
14.136	14.060	(0.076)	ADC1A	4935			69.76- 104.64	110.16

Data File: \\SVHPLC\EE\chem\slc01.i\920CALaq.b\CAL2.D
Report Date: 07-Oct-2002 17:51

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		
14.403	14.396	(0.007)	VWD1A	2252			80.00- 120.00	100.00
14.479	14.396	(0.083)	ADC1A	8844	1.00000	0.95	343.18- 514.77	392.72
7 Fluorene						CAS #: 86-73-7		
14.763	14.763	(0.000)	VWD1A	24353	1.00000	0.99		
8 Phenanthrene						CAS #: 85-01-8		
15.583	15.580	(0.003)	VWD1A	77804			80.00- 120.00	100.00(M)
15.657	15.580	(0.077)	ADC1A	22301	1.00000	0.97	31.76- 47.65	28.66
9 Anthracene						CAS #: 120-12-7		
16.326	16.326	(0.000)	VWD1A	188198	1.00000	0.99	80.00- 120.00	100.00(M)
16.396	16.326	(0.070)	ADC1A	5217			1.56- 2.33	2.77
10 Fluoranthene						CAS #: 206-44-0		
17.153	17.156	(-0.003)	VWD1A	18625	1.00000	1.00		
11 Pyrene						CAS #: 129-00-0		
17.706	17.710	(-0.004)	VWD1A	13197	1.00000	0.99	80.00- 120.00	100.00(M)
17.781	17.710	(0.071)	ADC1A	115121			783.35-1175.02	872.33
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.756	18.760	(-0.004)	VWD1A	14543	1.00000	0.99	80.00- 120.00	100.00
18.832	18.760	(0.072)	ADC1A	152401			1010.87-1516.30	1047.93
13 Benzo(a)Anthracene						CAS #: 56-55-3		
19.533	19.543	(-0.010)	VWD1A	39475	1.00000	0.99	80.00- 120.00	100.00
19.612	19.543	(0.069)	ADC1A	181750			416.49- 624.73	460.42
14 Chrysene						CAS #: 218-01-9		
19.953	19.960	(-0.007)	VWD1A	49750			80.00- 120.00	100.00
20.029	19.960	(0.069)	ADC1A	61692	1.00000	1.0	133.58- 200.38	124.00
15 Benzo(b)Fluoranthene						CAS #: 205-99-2		
21.353	21.366	(-0.013)	VWD1A	42683	1.00000	0.99	80.00- 120.00	100.00(M)
21.427	21.366	(0.061)	ADC1A	5707			14.18- 21.27	13.37
16 Benzo(k)Fluoranthene						CAS #: 207-08-9		
22.006	22.016	(-0.010)	VWD1A	37921	1.00000	0.99	80.00- 120.00	100.00(M)
22.082	22.016	(0.066)	ADC1A	14538			43.46- 65.19	38.34
17 Benzo(a)pyrene						CAS #: 50-32-8		
22.606	22.620	(-0.014)	VWD1A	38257			80.00- 120.00	100.00
22.682	22.620	(0.062)	ADC1A	36408	1.00000	0.98	102.14- 153.21	95.17

Data File: \\SVHPLC\EE\chem\slc01.i\920CALaq.b\CAL2.D
Report Date: 07-Oct-2002 17:51

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		
23.703	23.703	(0.000)	VWD1A	8391			80.00- 120.00	100.00
23.784	23.703	(0.081)	ADC1A	40644	1.00000	0.99	526.68- 790.02	484.38
19 Benzo(ghi)Perylene						CAS #: 191-24-2		
24.360	24.366	(-0.006)	VWD1A	15752	1.00000	0.98	80.00- 120.00	100.00
24.462	24.366	(0.096)	ADC1A	14097			83.63- 125.44	89.49
20 Indeno(123cd)Pyrene						CAS #: 193-39-5		
24.873	24.873	(0.000)	VWD1A	47528	1.00000	0.99		(M)

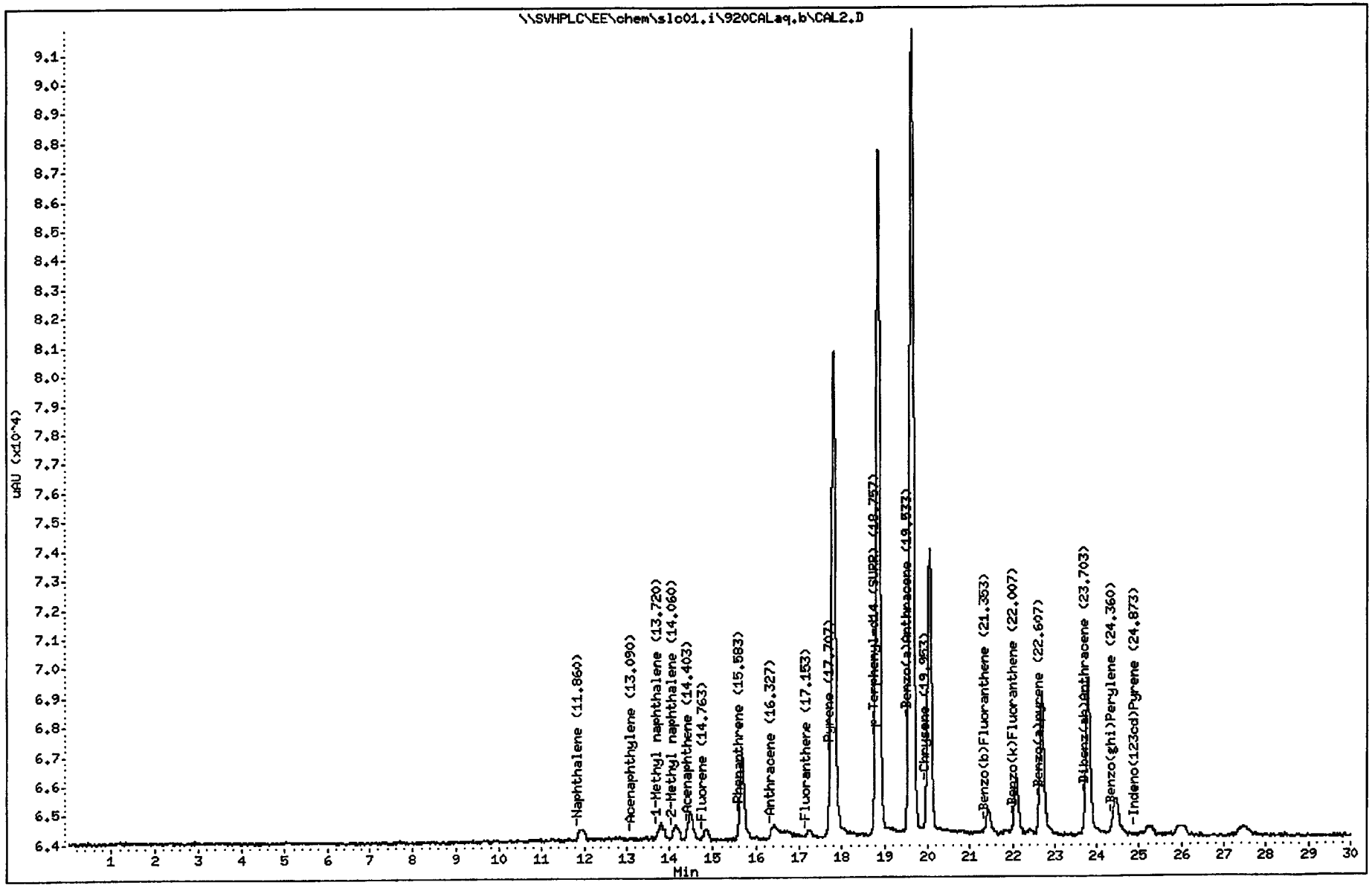
QC Flag Legend

M - Compound response manually integrated.

Data File: \\SVHPLC\EE\chem\slc01.i\920CALaq.b\CAL2.D
Date : 19-SEP-2002 19:29
Client ID: CAL2
Sample Info: SV6510
Purge Volume: 1000.0
Column phase: Vydac 201TP54

Instrument: slc01.i

Operator: MARTY
Column diameter: 4.60



Data File: \\SVHPLC\EE\chem\slc01.i\920CALaq.b\CAL3.D
Report Date: 07-Oct-2002 17:52

PEL Laboratories, Inc.

Data file : \\SVHPLC\EE\chem\slc01.i\920CALaq.b\CAL3.D
Lab Smp Id: SV6509 Client Smp ID: CAL3
Inj Date : 19-SEP-2002 20:04
Operator : MARTY Inst ID: slc01.i
Smp Info : SV6509
Misc Info :
Comment :
Method : \\SVHPLC\EE\chem\slc01.i\920CALaq.b\8310AE.m
Meth Date : 07-Oct-2002 17:51 amarty Quant Type: ESTD
Cal Date : 19-SEP-2002 20:04 Cal File: CAL3.D
Als bottle: 5 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		
11.866	11.860	(0.006)	VWD1A	25048	5.00000	5.0	80.00- 120.00	100.00
11.948	11.860	(0.088)	ADC1A	11599			34.06- 51.09	46.31
3 Acenaphthylene						CAS #: 208-96-8		
13.093	13.090	(0.003)	VWD1A	19976	5.00000	5.0		
4 1-Methyl naphthalene						CAS #: 90-12-0		
13.723	13.720	(0.003)	VWD1A	15073			80.00- 120.00	100.00
13.805	13.720	(0.085)	ADC1A	18965	5.00000	4.8	111.10- 166.65	125.82
5 2-Methyl naphthalene						CAS #: 91-57-6		
14.066	14.060	(0.006)	VWD1A	21706	5.00000	5.0	80.00- 120.00	100.00
14.145	14.060	(0.085)	ADC1A	17706			69.76- 104.64	81.57

Data File: \\SVHPLC\EE\chem\slc01.i\920CALaq.b\CAL3.D
Report Date: 07-Oct-2002 17:52

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		
14.403	14.396	(0.007)	VWD1A	9705			80.00- 120.00	100.00(M)
14.480	14.396	(0.084)	ADC1A	36024	5.00000	4.9	343.18- 514.77	371.19
7 Fluorene						CAS #: 86-73-7		
14.770	14.763	(0.007)	VWD1A	120305	5.00000	5.0		
8 Phenanthrene						CAS #: 85-01-8		
15.590	15.580	(0.010)	VWD1A	385308			80.00- 120.00	100.00
15.665	15.580	(0.085)	ADC1A	139283	5.00000	5.0	31.76- 47.65	36.15
9 Anthracene						CAS #: 120-12-7		
16.333	16.326	(0.007)	VWD1A	937560	5.00000	5.0	80.00- 120.00	100.00(M)
16.408	16.326	(0.082)	ADC1A	16777			1.56- 2.33	1.79
10 Fluoranthene						CAS #: 206-44-0		
17.166	17.156	(0.010)	VWD1A	88574	5.00000	5.0		
11 Pyrene						CAS #: 129-00-0		
17.720	17.710	(0.010)	VWD1A	67514	5.00000	5.0	80.00- 120.00	100.00
17.793	17.710	(0.083)	ADC1A	663915			783.35-1175.02	983.37
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.770	18.760	(0.010)	VWD1A	68868	5.00000	5.0	80.00- 120.00	100.00
18.848	18.760	(0.088)	ADC1A	850306			1010.87-1516.30	1234.69
13 Benzo(a)Anthracene						CAS #: 56-55-3		
19.550	19.543	(0.007)	VWD1A	194379	5.00000	5.0	80.00- 120.00	100.00
19.626	19.543	(0.083)	ADC1A	1005861			416.49- 624.73	517.47
14 Chrysene						CAS #: 218-01-9		
19.970	19.960	(0.010)	VWD1A	248077			80.00- 120.00	100.00(M)
20.041	19.960	(0.081)	ADC1A	393115	5.00000	5.0	133.58- 200.38	158.46
15 Benzo(b)Fluoranthene						CAS #: 205-99-2		
21.373	21.366	(0.007)	VWD1A	213081	5.00000	5.0	80.00- 120.00	100.00
21.451	21.366	(0.085)	ADC1A	29249			14.18- 21.27	13.73
16 Benzo(k)Fluoranthene						CAS #: 207-08-9		
22.026	22.016	(0.010)	VWD1A	189840	5.00000	5.0	80.00- 120.00	100.00
22.101	22.016	(0.085)	ADC1A	90059			43.46- 65.19	47.44
17 Benzo(a)pyrene						CAS #: 50-32-8		
22.626	22.620	(0.006)	VWD1A	193356			80.00- 120.00	100.00
22.701	22.620	(0.081)	ADC1A	239480	5.00000	5.0	102.14- 153.21	123.85

Data File: \\SVHPLC\EE\chem\slc01.i\920CALaq.b\CAL3.D
Report Date: 07-Oct-2002 17:52

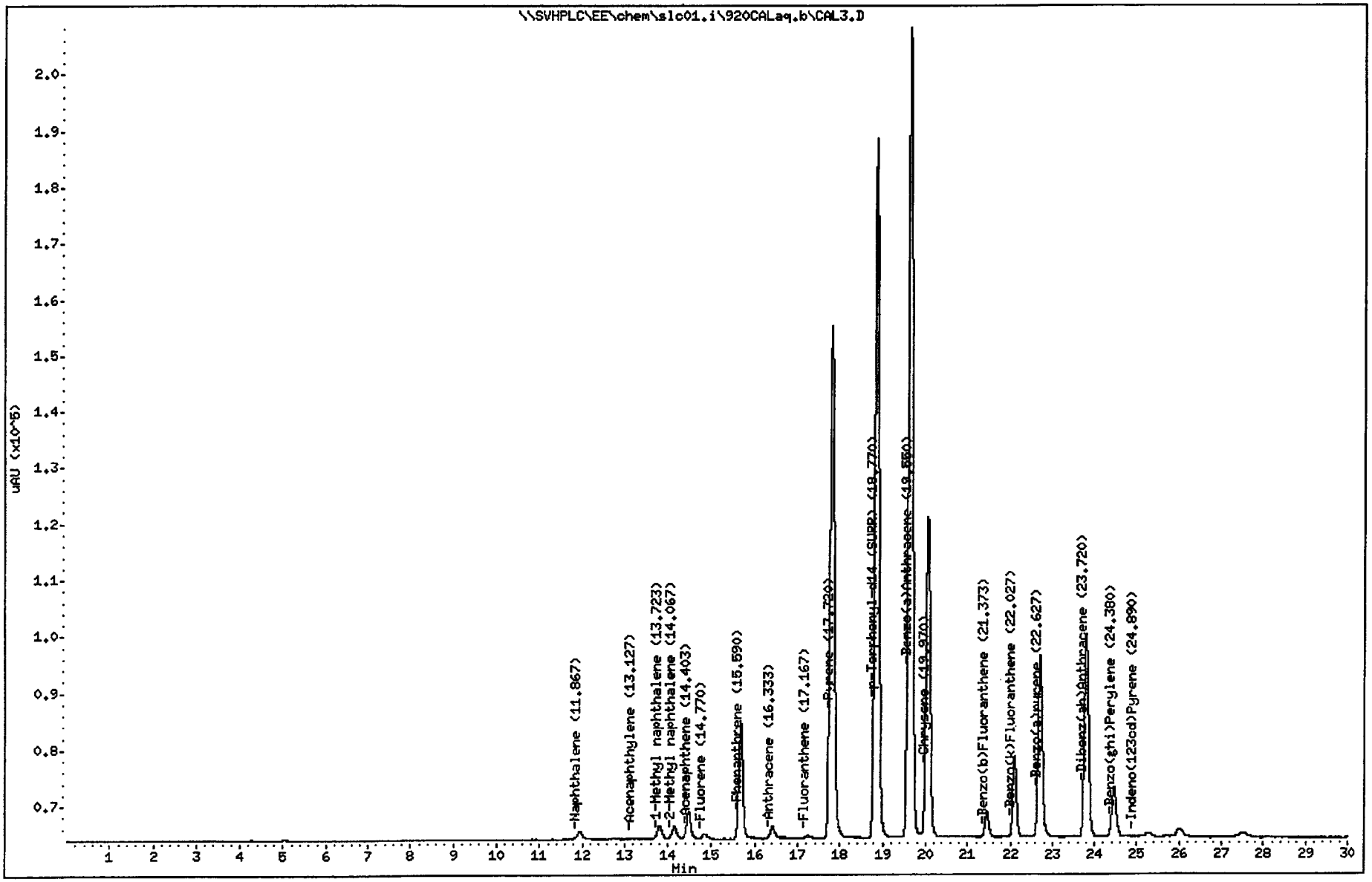
RT	EXP RT	DLT RT	SIGNAL	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	
18 Dibenz(ah)Anthracene						CAS #: 53-70-3			
23.720	23.703	(0.017)	VWD1A	42775			80.00- 120.00	100.00	
23.796	23.703	(0.093)	ADC1A	269304	5.00000	5.0	526.68- 790.02	629.58	
19 Benzo(ghi)Perylene						CAS #: 191-24-2			
24.380	24.366	(0.014)	VWD1A	78448	5.00000	5.0	80.00- 120.00	100.00	
24.460	24.366	(0.094)	ADC1A	69084			83.63- 125.44	88.06	
20 Indeno(123cd)Pyrene						CAS #: 193-39-5			
24.890	24.873	(0.017)	VWD1A	240401	5.00000	5.0			(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\SVHPLC\EE\chem\slc01.i\920CALaq.b\CAL3.D
Date : 19-SEP-2002 20:04
Client ID: CAL3
Sample Info: SV6509
Purge Volume: 1000.0
Column phase: Vydac 201TP54

Instrument: slc01.i
Operator: MARTY
Column diameter: 4.60



Data File: \\SVHPLC\EE\chem\slc01.i\920CALaq.b\CAL4.D
Report Date: 07-Oct-2002 17:52

PEL Laboratories, Inc.

Data file : \\SVHPLC\EE\chem\slc01.i\920CALaq.b\CAL4.D
Lab Smp Id: SV6508 Client Smp ID: CAL4
Inj Date : 19-SEP-2002 20:38
Operator : MARTY Inst ID: slc01.i
Smp Info : SV6508
Misc Info :
Comment :
Method : \\SVHPLC\EE\chem\slc01.i\920CALaq.b\8310AE.m
Meth Date : 07-Oct-2002 17:51 amarty Quant Type: ESTD
Cal Date : 19-SEP-2002 20:38 Cal File: CAL4.D
Als bottle: 6 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		
11.860	11.860	(0.000)	VWD1A	48722	10.0000	9.9	80.00- 120.00	100.00
11.934	11.860	(0.074)	ADC1A	20580			34.06- 51.09	42.24
3 Acenaphthylene						CAS #: 208-96-8		
13.090	13.090	(0.000)	VWD1A	38562	10.0000	9.9		
4 1-Methyl naphthalene						CAS #: 90-12-0		
13.720	13.720	(0.000)	VWD1A	29220			80.00- 120.00	100.00(M)
13.796	13.720	(0.076)	ADC1A	38050	10.0000	9.9	111.10- 166.65	130.22
5 2-Methyl naphthalene						CAS #: 91-57-6		
14.060	14.060	(0.000)	VWD1A	41764	10.0000	9.9	80.00- 120.00	100.00
14.134	14.060	(0.074)	ADC1A	33439			69.76- 104.64	80.07

Data File: \\SVHPLC\EE\chem\slc01.i\920CALaq.b\CAL4.D
Report Date: 07-Oct-2002 17:52

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		
14.396	14.396	(0.000)	VWD1A	18601			80.00- 120.00	100.00(M)
14.467	14.396	(0.071)	ADC1A	78774	10.0000	10.1	343.18- 514.77	423.49
7 Fluorene						CAS #: 86-73-7		
14.760	14.763	(-0.003)	VWD1A	233681	10.0000	9.9		
8 Phenanthrene						CAS #: 85-01-8		
15.576	15.580	(-0.004)	VWD1A	746571			80.00- 120.00	100.00
15.652	15.580	(0.072)	ADC1A	290328	10.0000	10.1	31.76- 47.65	38.89
9 Anthracene						CAS #: 120-12-7		
16.323	16.326	(-0.003)	VWD1A	1782733	10.0000	9.9	80.00- 120.00	100.00
16.397	16.326	(0.071)	ADC1A	33441			1.56- 2.33	1.88
10 Fluoranthene						CAS #: 206-44-0		
17.153	17.156	(-0.003)	VWD1A	172384	10.0000	9.9		
11 Pyrene						CAS #: 129-00-0		
17.706	17.710	(-0.004)	VWD1A	131628	10.0000	9.9	80.00- 120.00	100.00
17.782	17.710	(0.072)	ADC1A	1303639			783.35-1175.02	990.40
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.760	18.760	(0.000)	VWD1A	133132	10.0000	9.9	80.00- 120.00	100.00
18.836	18.760	(0.076)	ADC1A	1664498			1010.87-1516.30	1250.26
13 Benzo(a)Anthracene						CAS #: 56-55-3		
19.543	19.543	(0.000)	VWD1A	375714	10.0000	9.9	80.00- 120.00	100.00
19.619	19.543	(0.076)	ADC1A	1966806			416.49- 624.73	523.48
14 Chrysene						CAS #: 218-01-9		
19.960	19.960	(0.000)	VWD1A	481897			80.00- 120.00	100.00
20.034	19.960	(0.074)	ADC1A	792558	10.0000	10.0	133.58- 200.38	164.47
15 Benzo(b)Fluoranthene						CAS #: 205-99-2		
21.363	21.366	(-0.003)	VWD1A	413588	10.0000	9.9	80.00- 120.00	100.00
21.437	21.366	(0.071)	ADC1A	67713			14.18- 21.27	16.37
16 Benzo(k)Fluoranthene						CAS #: 207-08-9		
22.013	22.016	(-0.003)	VWD1A	368349	10.0000	9.9	80.00- 120.00	100.00
22.089	22.016	(0.073)	ADC1A	194018			43.46- 65.19	52.67
17 Benzo(a)pyrene						CAS #: 50-32-8		
22.613	22.620	(-0.007)	VWD1A	378579			80.00- 120.00	100.00
22.691	22.620	(0.071)	ADC1A	487322	10.0000	10.0	102.14- 153.21	128.72

Data File: \\SVHPLC\EE\chem\slc01.i\920CALaq.b\CAL4.D
Report Date: 07-Oct-2002 17:52

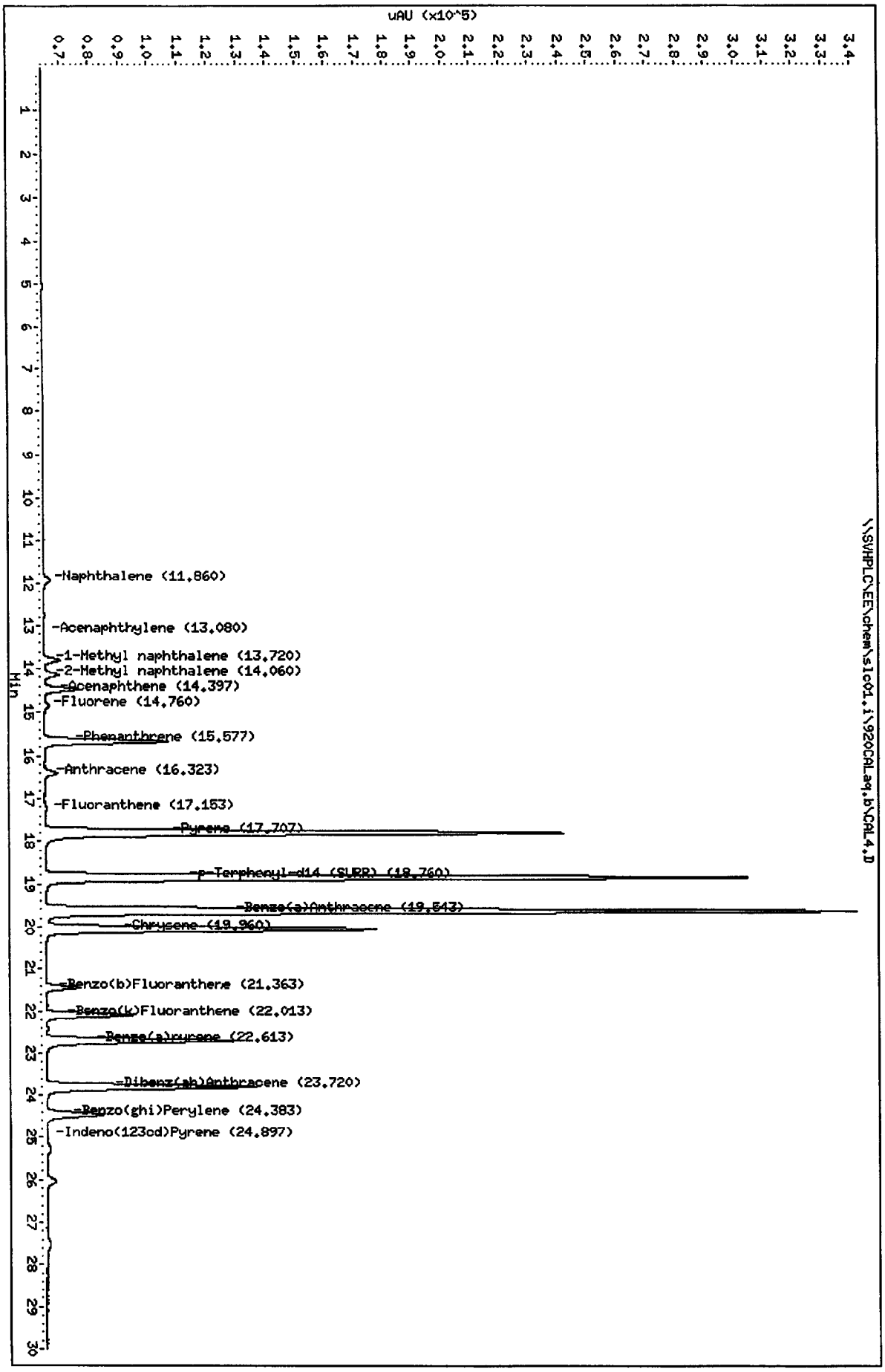
RT	EXP RT	DLT RT	SIGNAL	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	
18 Dibenz(ah)Anthracene						CAS #: 53-70-3			
23.720	23.703	(0.017)	VWD1A	83959			80.00- 120.00	100.00	
23.796	23.703	(0.093)	ADC1A	551616	10.0000	10.1	526.68- 790.02	657.01	
19 Benzo(ghi)Perylene						CAS #: 191-24-2			
24.383	24.366	(0.017)	VWD1A	152541	10.0000	9.9	80.00- 120.00	100.00	
24.459	24.366	(0.093)	ADC1A	154791			83.63- 125.44	101.48	
20 Indeno(123cd)Pyrene						CAS #: 193-39-5			
24.896	24.873	(0.023)	VWD1A	471961	10.0000	10			(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\SVHPLC\EE\chem\slc01.i\920CALaq.b\CAL4.D
Date : 19-SEP-2002 20:38
Client ID: CAL4
Sample Info: SV6508
Purge Volume: 1000.0
Column phase: Vydac 201TP54

Instrument: slc01.i
Operator: HARTY
Column diameter: 4.60



Data File: \\SVHPLC\EE\chem\slc01.i\920CALaq.b\CAL5.D
Report Date: 07-Oct-2002 17:52

PEL Laboratories, Inc.

Data file : \\SVHPLC\EE\chem\slc01.i\920CALaq.b\CAL5.D
Lab Smp Id: SV6507 Client Smp ID: CAL5
Inj Date : 19-SEP-2002 21:13
Operator : MARTY Inst ID: slc01.i
Smp Info : SV6507
Misc Info :
Comment :
Method : \\SVHPLC\EE\chem\slc01.i\920CALaq.b\8310AE.m
Meth Date : 07-Oct-2002 17:51 amarty Quant Type: ESTD
Cal Date : 19-SEP-2002 21:13 Cal File: CAL5.D
Als bottle: 7 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)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO
2 Naphthalene						CAS #: 91-20-3		
11.833	11.860	(-0.027)	VWD1A	74918	15.0000	15.1	80.00- 120.00	100.00
11.915	11.860	(0.055)	ADC1A	31427			34.06- 51.09	41.95
3 Acenaphthylene						CAS #: 208-96-8		
13.063	13.090	(-0.027)	VWD1A	58881	15.0000	15.0		
4 1-Methyl naphthalene						CAS #: 90-12-0		
13.693	13.720	(-0.027)	VWD1A	44789			80.00- 120.00	100.00
13.771	13.720	(0.051)	ADC1A	62292	15.0000	15.4	111.10- 166.65	139.08
5 2-Methyl naphthalene						CAS #: 91-57-6		
14.033	14.060	(-0.027)	VWD1A	64071	15.0000	15.1	80.00- 120.00	100.00
14.111	14.060	(0.051)	ADC1A	56375			69.76- 104.64	87.99

Data File: \\SVHPLC\EE\chem\slc01.i\920CALaq.b\CAL5.D
Report Date: 07-Oct-2002 17:52

```
                                                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
14.370  14.396  (-0.026) VWD1A     28375                    80.00- 120.00   100.00(M)
14.448  14.396  (0.052) ADC1A    128370 15.0000     15.5 343.18- 514.77   452.41
-------------------------------------------------------------------------------
    7 Fluorene                                       CAS #: 86-73-7
14.736  14.763  (-0.027) VWD1A    359056 15.0000     15.1
-------------------------------------------------------------------------------
    8 Phenanthrene                                   CAS #: 85-01-8
15.553  15.580  (-0.027) VWD1A   1142904                    80.00- 120.00   100.00
15.633  15.580  (0.053) ADC1A    458423 15.0000     15.3  31.76-  47.65    40.11
-------------------------------------------------------------------------------
    9 Anthracene                                     CAS #: 120-12-7
16.300  16.326  (-0.026) VWD1A   2661979 15.0000     14.9  80.00- 120.00   100.00(M)
16.376  16.326  (0.050) ADC1A     52495                     1.56-   2.33     1.97
-------------------------------------------------------------------------------
   10 Fluoranthene                                   CAS #: 206-44-0
17.130  17.156  (-0.026) VWD1A    265775 15.0000     15.1
-------------------------------------------------------------------------------
   11 Pyrene                                         CAS #: 129-00-0
17.686  17.710  (-0.024) VWD1A    202105 15.0000     15.1  80.00- 120.00   100.00
17.763  17.710  (0.053) ADC1A   2014243                  783.35-1175.02   996.63
-------------------------------------------------------------------------------
$  12 p-Terphenyl-d14 (SURR)                         CAS #: 1718-51-0
18.736  18.760  (-0.024) VWD1A    204218 15.0000     15.1  80.00- 120.00   100.00
18.816  18.760  (0.056) ADC1A   2575150                 1010.87-1516.30  1260.98
-------------------------------------------------------------------------------
   13 Benzo(a)Anthracene                             CAS #: 56-55-3
19.523  19.543  (-0.020) VWD1A    577156 15.0000     15.1  80.00- 120.00   100.00
19.603  19.543  (0.060) ADC1A   3017410                  416.49- 624.73   522.81
-------------------------------------------------------------------------------
   14 Chrysene                                       CAS #: 218-01-9
19.943  19.960  (-0.017) VWD1A    739982                   80.00- 120.00   100.00
20.021  19.960  (0.061) ADC1A   1222981 15.0000     15.2 133.58- 200.38   165.27
-------------------------------------------------------------------------------
   15 Benzo(b)Fluoranthene                           CAS #: 205-99-2
21.343  21.366  (-0.023) VWD1A    636472 15.0000     15.1  80.00- 120.00   100.00
21.423  21.366  (0.057) ADC1A    114387                   14.18-  21.27    17.97
-------------------------------------------------------------------------------
   16 Benzo(k)Fluoranthene                           CAS #: 207-08-9
21.993  22.016  (-0.023) VWD1A    565337 15.0000     15.1  80.00- 120.00   100.00
22.073  22.016  (0.057) ADC1A    312922                   43.46-  65.19    55.35
-------------------------------------------------------------------------------
   17 Benzo(a)pyrene                                 CAS #: 50-32-8
22.593  22.620  (-0.027) VWD1A    582866                   80.00- 120.00   100.00
22.671  22.620  (0.051) ADC1A    766841 15.0000     15.3 102.14- 153.21   131.56
-------------------------------------------------------------------------------
```

Data File: \\SVHPLC\EE\chem\slc01.i\920CALaq.b\CAL5.D
Report Date: 07-Oct-2002 17:52

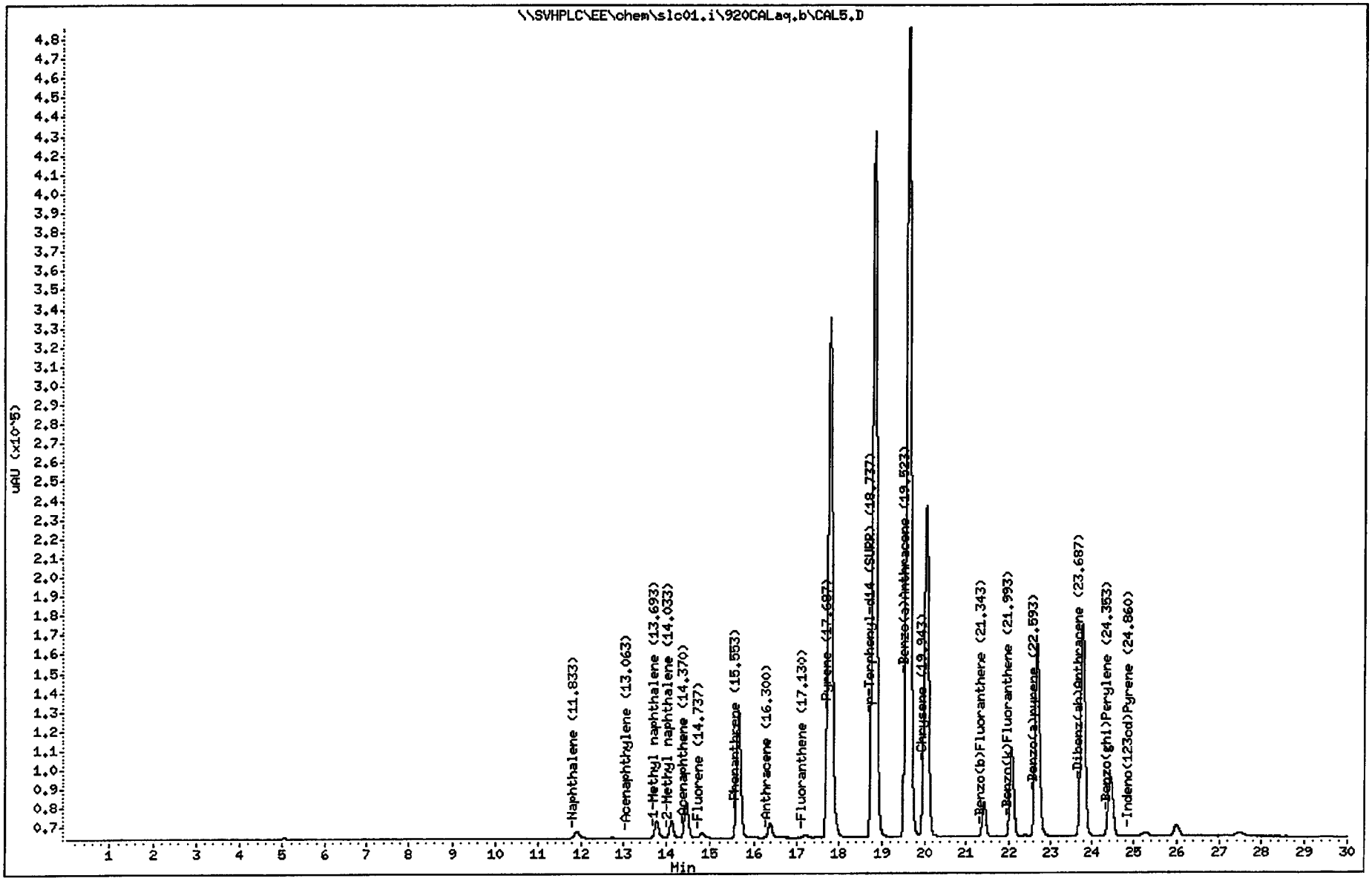
RT	EXP RT	DLT RT	SIGNAL	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO
18 Dibenz(ah)Anthracene						CAS #: 53-70-3		
23.686	23.703	(-0.017)	VWD1A	129232			80.00- 120.00	100.00
23.768	23.703	(0.065)	ADC1A	859875	15.0000	15.2	526.68- 790.02	665.37
19 Benzo(ghi)Perylene						CAS #: 191-24-2		
24.353	24.366	(-0.013)	VWD1A	235022	15.0000	15.1	80.00- 120.00	100.00
24.433	24.366	(0.067)	ADC1A	254517			83.63- 125.44	108.29
20 Indeno(123cd)Pyrene						CAS #: 193-39-5		
24.860	24.873	(-0.013)	VWD1A	726900	15.0000	15.1		(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\SVHPLC\EE\chem\slc01.i\920CALaq.b\CAL5.D
Date : 19-SEP-2002 21:13
Client ID: CAL5
Sample Info: SV6507
Purge Volume: 1000.0
Column phase: Vydac 201TP54

Instrument: slc01.i
Operator: MARTY
Column diameter: 4.60



Data File: \\SVHPLC\EE\chem\slc01.i\920CALaq.b\CAL6.D
Report Date: 07-Oct-2002 17:52

PEL Laboratories, Inc.

Data file : \\SVHPLC\EE\chem\slc01.i\920CALaq.b\CAL6.D
Lab Smp Id: SV6506 Client Smp ID: CAL6
Inj Date : 19-SEP-2002 21:47
Operator : MARTY Inst ID: slc01.i
Smp Info : SV6506
Misc Info :
Comment :
Method : \\SVHPLC\EE\chem\slc01.i\920CALaq.b\8310AE.m
Meth Date : 07-Oct-2002 17:51 amarty Quant Type: ESTD
Cal Date : 19-SEP-2002 21:47 Cal File: CAL6.D
Als bottle: 8 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		
11.853	11.860	(-0.007)	VWD1A	97050	20.0000	19.8	80.00- 120.00	100.00
11.929	11.860	(0.069)	ADC1A	42707			34.06- 51.09	44.01
3 Acenaphthylene						CAS #: 208-96-8		
13.083	13.090	(-0.007)	VWD1A	76099	20.0000	19.7		
4 1-Methyl naphthalene						CAS #: 90-12-0		
13.713	13.720	(-0.007)	VWD1A	57858			80.00- 120.00	100.00
13.786	13.720	(0.066)	ADC1A	83998	20.0000	20.3	111.10- 166.65	145.18
5 2-Methyl naphthalene						CAS #: 91-57-6		
14.053	14.060	(-0.007)	VWD1A	83048	20.0000	19.8	80.00- 120.00	100.00
14.124	14.060	(0.064)	ADC1A	77543			69.76- 104.64	93.37

Data File: \\SVHPLC\EE\chem\slc01.i\920CALaq.b\CAL6.D
Report Date: 07-Oct-2002 17:52

```
                                                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
14.386  14.396  (-0.010) VWD1A     36750                     80.00- 120.00   100.00
14.461  14.396  (0.065) ADC1A    165502 20.0000     20.0 343.18- 514.77   450.35
-------------------------------------------------------------------------------
    7 Fluorene                                       CAS #: 86-73-7
14.756  14.763  (-0.007) VWD1A    464336 20.0000     19.8
-------------------------------------------------------------------------------
    8 Phenanthrene                                   CAS #: 85-01-8
15.573  15.580  (-0.007) VWD1A   1479536                     80.00- 120.00   100.00
15.647  15.580  (0.067) ADC1A    599402 20.0000     20.0  31.76-  47.65    40.51
-------------------------------------------------------------------------------
    9 Anthracene                                     CAS #: 120-12-7
16.320  16.326  (-0.006) VWD1A   3384521 20.0000     19.5  80.00- 120.00   100.00
16.394  16.326  (0.068) ADC1A     71346                      1.56-   2.33     2.11
-------------------------------------------------------------------------------
   10 Fluoranthene                                   CAS #: 206-44-0
17.150  17.156  (-0.006) VWD1A    344125 20.0000     19.8
-------------------------------------------------------------------------------
   11 Pyrene                                         CAS #: 129-00-0
17.703  17.710  (-0.007) VWD1A    262255 20.0000     19.8  80.00- 120.00   100.00
17.779  17.710  (0.069) ADC1A   2596514                  783.35-1175.02   990.07
-------------------------------------------------------------------------------
$  12 p-Terphenyl-d14 (SURR)                         CAS #: 1718-51-0
18.753  18.760  (-0.007) VWD1A    264151 20.0000     19.8  80.00- 120.00   100.00
18.829  18.760  (0.069) ADC1A   3340818                 1010.87-1516.30  1264.74
-------------------------------------------------------------------------------
   13 Benzo(a)Anthracene                             CAS #: 56-55-3
19.540  19.543  (-0.003) VWD1A    746156 20.0000     19.8  80.00- 120.00   100.00
19.612  19.543  (0.069) ADC1A   3887128                  416.49- 624.73   520.95
-------------------------------------------------------------------------------
   14 Chrysene                                       CAS #: 218-01-9
19.956  19.960  (-0.004) VWD1A    955292                     80.00- 120.00   100.00
20.031  19.960  (0.071) ADC1A   1592524 20.0000     19.9 133.58- 200.38   166.71
-------------------------------------------------------------------------------
   15 Benzo(b)Fluoranthene                           CAS #: 205-99-2
21.363  21.366  (-0.003) VWD1A    824101 20.0000     19.8  80.00- 120.00   100.00
21.439  21.366  (0.073) ADC1A    154778                     14.18-  21.27    18.78
-------------------------------------------------------------------------------
   16 Benzo(k)Fluoranthene                           CAS #: 207-08-9
22.016  22.016  (0.000) VWD1A    731539 20.0000     19.8  80.00- 120.00   100.00
22.092  22.016  (0.076) ADC1A    411092                     43.46-  65.19    56.20
-------------------------------------------------------------------------------
   17 Benzo(a)pyrene                                 CAS #: 50-32-8
22.620  22.620  (0.000) VWD1A    756773                     80.00- 120.00   100.00
22.696  22.620  (0.076) ADC1A    998245 20.0000     19.9 102.14- 153.21   131.91
-------------------------------------------------------------------------------
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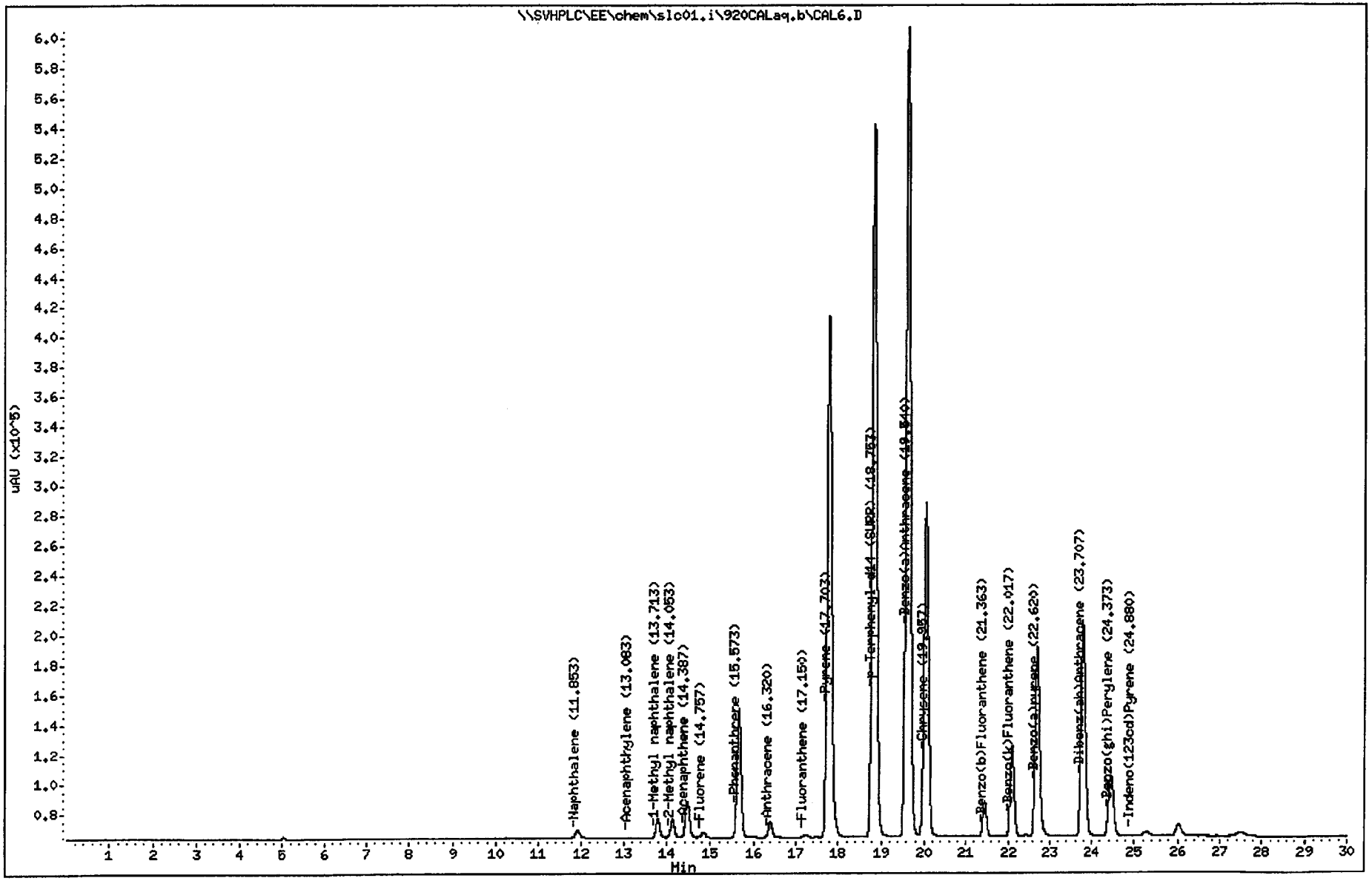
Data File: \\SVHPLC\EE\chem\slc01.i\920CALaq.b\CAL6.D
Report Date: 07-Oct-2002 17:52

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		
23.706	23.703	(0.003)	VWD1A	167635			80.00- 120.00	100.00
23.782	23.703	(0.079)	ADC1A	1114730	20.0000	19.9	526.68- 790.02	664.97
19 Benzo(ghi)Perylene						CAS #: 191-24-2		
24.373	24.366	(0.007)	VWD1A	304992	20.0000	19.8	80.00- 120.00	100.00
24.451	24.366	(0.085)	ADC1A	337835			83.63- 125.44	110.77
20 Indeno(123cd)Pyrene						CAS #: 193-39-5		
24.880	24.873	(0.007)	VWD1A	943919	20.0000	19.8		

Data File: \\SVHPLC\EE\chem\slc01.i\920CALaq.b\CAL6.D
Date : 19-SEP-2002 21:47
Client ID: CAL6
Sample Info: SV6506
Purge Volume: 1000.0
Column phase: Vydac 201TP54

Instrument: slc01.i
Operator: MARTY
Column diameter: 4.60



Data File: \\SVHPLC\EE\chem\slc01.i\920CALaq.b\CAL7.D
Report Date: 07-Oct-2002 17:52

PEL Laboratories, Inc.

Data file : \\SVHPLC\EE\chem\slc01.i\920CALaq.b\CAL7.D
Lab Smp Id: SV6505 Client Smp ID: CAL7
Inj Date : 19-SEP-2002 22:22
Operator : MARTY Inst ID: slc01.i
Smp Info : SV6505
Misc Info :
Comment :
Method : \\SVHPLC\EE\chem\slc01.i\920CALaq.b\8310AE.m
Meth Date : 07-Oct-2002 17:51 amarty Quant Type: ESTD
Cal Date : 19-SEP-2002 22:22 Cal File: CAL7.D
Als bottle: 9 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

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		
11.860	11.860	(0.000)	VWD1A	146359	30.0000	29.9	80.00- 120.00	100.00
11.937	11.860	(0.077)	ADC1A	70314			34.06- 51.09	48.04
3 Acenaphthylene						CAS #: 208-96-8		
13.090	13.090	(0.000)	VWD1A	113963	30.0000	29.8		
4 1-Methyl naphthalene						CAS #: 90-12-0		
13.723	13.720	(0.003)	VWD1A	87294			80.00- 120.00	100.00(AM)
13.795	13.720	(0.075)	ADC1A	131279	30.0000	30.8	111.10- 166.65	150.39
5 2-Methyl naphthalene						CAS #: 91-57-6		
14.063	14.060	(0.003)	VWD1A	125218	30.0000	29.9	80.00- 120.00	100.00
14.133	14.060	(0.073)	ADC1A	126560			69.76- 104.64	101.07

Data File: \\SVHPLC\EE\chem\slc01.i\920CALaq.b\CAL7.D
Report Date: 07-Oct-2002 17:52

```
                                                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
14.396  14.396  (0.000) VWD1A     55303                        80.00- 120.00   100.00(A)
14.470  14.396  (0.074) ADC1A    262116 30.0000     30.7 343.18- 514.77   473.96
-------------------------------------------------------------------------------
    7 Fluorene                                          CAS #: 86-73-7
14.763  14.763  (0.000) VWD1A    701284 30.0000     29.9
-------------------------------------------------------------------------------
    8 Phenanthrene                                      CAS #: 85-01-8
15.580  15.580  (0.000) VWD1A   2220651                        80.00- 120.00   100.00(A)
15.655  15.580  (0.075) ADC1A    908735 30.0000     30.2  31.76-  47.65    40.92
-------------------------------------------------------------------------------
    9 Anthracene                                        CAS #: 120-12-7
16.323  16.326  (-0.003) VWD1A   4845263 30.0000     29.0  80.00- 120.00   100.00
16.395  16.326  (0.069) ADC1A    109354                         1.56-   2.33     2.26
-------------------------------------------------------------------------------
   10 Fluoranthene                                      CAS #: 206-44-0
17.153  17.156  (-0.003) VWD1A    520122 30.0000     30.0
-------------------------------------------------------------------------------
   11 Pyrene                                            CAS #: 129-00-0
17.706  17.710  (-0.004) VWD1A    395447 30.0000     29.9  80.00- 120.00   100.00
17.783  17.710  (0.073) ADC1A   3878079                     783.35-1175.02   980.68
-------------------------------------------------------------------------------
$  12 p-Terphenyl-d14 (SURR)                           CAS #: 1718-51-0
18.750  18.760  (-0.010) VWD1A    398849 30.0000     29.9  80.00- 120.00   100.00
18.827  18.760  (0.067) ADC1A   5005707                    1010.87-1516.30  1255.04
-------------------------------------------------------------------------------
   13 Benzo(a)Anthracene                                CAS #: 56-55-3
19.536  19.543  (-0.007) VWD1A   1127840 30.0000     29.9  80.00- 120.00   100.00
19.612  19.543  (0.069) ADC1A   5742082                     416.49- 624.73   509.12
-------------------------------------------------------------------------------
   14 Chrysene                                          CAS #: 218-01-9
19.953  19.960  (-0.007) VWD1A   1437732                        80.00- 120.00   100.00
20.028  19.960  (0.068) ADC1A   2399604 30.0000     30.0 133.58- 200.38   166.90
-------------------------------------------------------------------------------
   15 Benzo(b)Fluoranthene                              CAS #: 205-99-2
21.356  21.366  (-0.010) VWD1A   1246774 30.0000     30.0  80.00- 120.00   100.00
21.433  21.366  (0.067) ADC1A    245076                        14.18-  21.27    19.66
-------------------------------------------------------------------------------
   16 Benzo(k)Fluoranthene                              CAS #: 207-08-9
22.003  22.016  (-0.013) VWD1A   1102111 30.0000     29.9  80.00- 120.00   100.00
22.080  22.016  (0.064) ADC1A    628682                        43.46-  65.19    57.04
-------------------------------------------------------------------------------
   17 Benzo(a)pyrene                                    CAS #: 50-32-8
22.606  22.620  (-0.014) VWD1A   1146383                        80.00- 120.00   100.00
22.683  22.620  (0.063) ADC1A   1493793 30.0000     29.9 102.14- 153.21   130.30
-------------------------------------------------------------------------------
```

Data File: \\SVHPLC\EE\chem\slc01.i\920CALaq.b\CAL7.D
Report Date: 07-Oct-2002 17:52

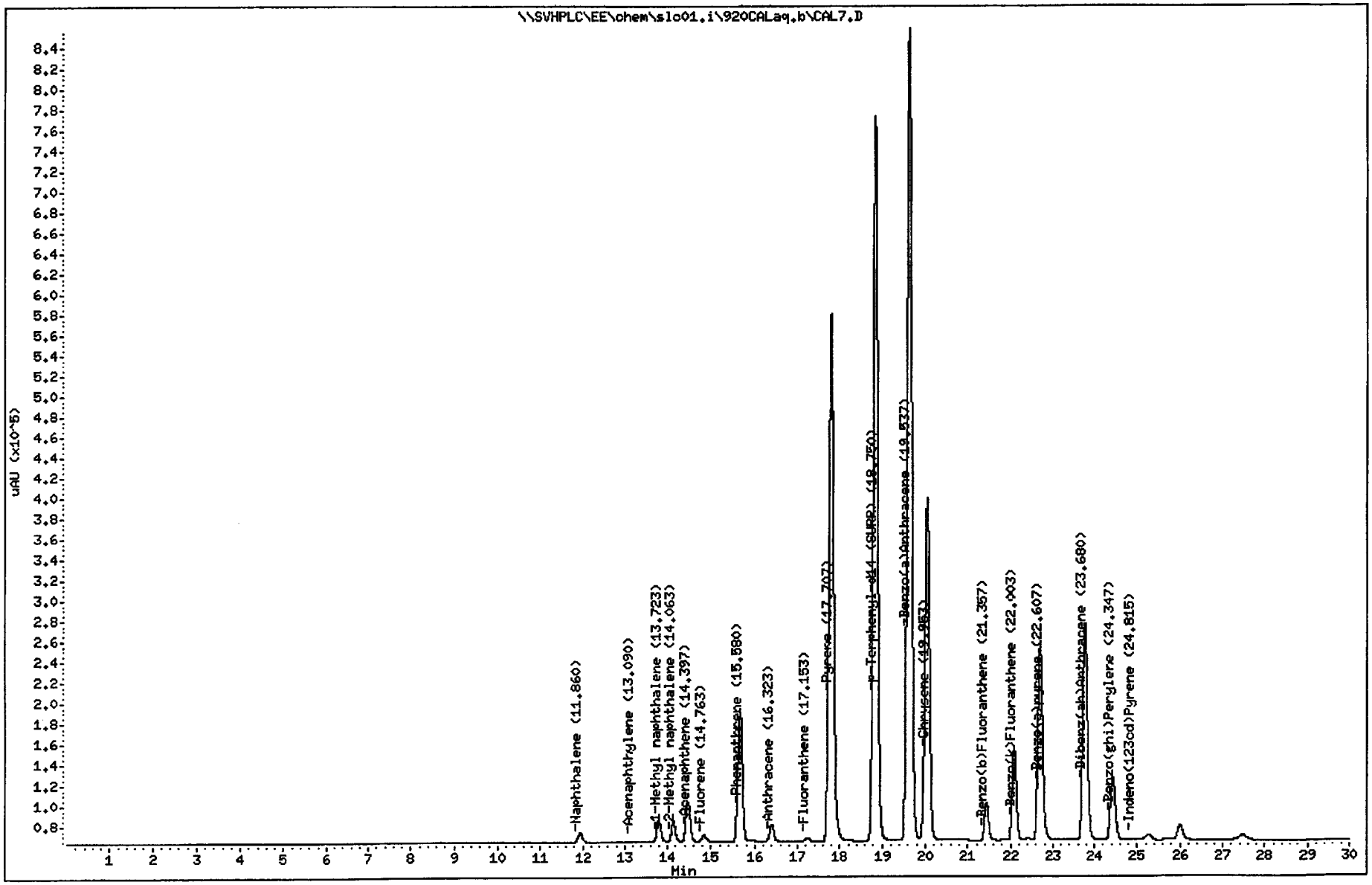
RT	EXP RT	DLT RT	SIGNAL	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	
18 Dibenz(ah)Anthracene						CAS #: 53-70-3			
23.680	23.703	(-0.023)	VWD1A	254117			80.00- 120.00	100.00	
23.755	23.703	(0.052)	ADC1A	1666535	30.0000	29.9	526.68- 790.02	655.81	
19 Benzo(ghi)Perylene						CAS #: 191-24-2			
24.346	24.366	(-0.020)	VWD1A	461704	30.0000	30.0	80.00- 120.00	100.00	
24.427	24.366	(0.061)	ADC1A	517093			83.63- 125.44	112.00	
20 Indeno(123cd)Pyrene						CAS #: 193-39-5			
24.850	24.873	(-0.023)	VWD1A	1418197	30.0000	29.9			(M)

QC Flag Legend

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

Data File: \\SVHPLC\EE\chem\slc01.i\920CALaq.b\CAL7.D
Date : 19-SEP-2002 22:22
Client ID: CAL7
Sample Info: SV6505
Purge Volume: 1000.0
Column phase: Vydac 201TP54

Instrument: slc01.i
Operator: MARTY
Column diameter: 4.60



Data File: \\SVHPLC\EE\chem\slc01.i\920CALaq.b\SECCCV.D
Report Date: 07-Oct-2002 17:52

PEL Laboratories, Inc.

Data file : \\SVHPLC\EE\chem\slc01.i\920CALaq.b\SECCCV.D
Lab Smp Id: SV6512 Client Smp ID: SECCCV
Inj Date : 19-SEP-2002 22:57
Operator : MARTY Inst ID: slc01.i
Smp Info : SV6512
Misc Info :
Comment :
Method : \\SVHPLC\EE\chem\slc01.i\920CALaq.b\8310AE.m
Meth Date : 07-Oct-2002 17:51 amarty Quant Type: ESTD
Cal Date : 19-SEP-2002 22:22 Cal File: CAL7.D
Als bottle: 10 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.04 Sample Matrix: SOIL
Processing Host: FORMS1

Concentration Formula: Amt * DF * 1/((Ws*(1-(M/100)))/1000)*Vf

Name	Value	Description
DF	1.000	Dilution Factor
Ws	33.000	Extracted weight
M	0.000	% Moisture
Vf	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		
11.860	11.860	(0.000)	VWD1A	72163	15.0000	14.8	80.00- 120.00	100.00
11.931	11.860	(0.071)	ADC1A	30726			34.06- 51.09	42.58
3 Acenaphthylene						CAS #: 208-96-8		
13.090	13.090	(0.000)	VWD1A	54041	15.0000	14.1		
4 1-Methyl naphthalene						CAS #: 90-12-0		
13.720	13.720	(0.000)	VWD1A	46109			80.00- 120.00	100.00
13.795	13.720	(0.075)	ADC1A	64035	15.0000	15.0	111.10- 166.65	138.88
5 2-Methyl naphthalene						CAS #: 91-57-6		
14.060	14.060	(0.000)	VWD1A	62240	15.0000	14.9	80.00- 120.00	100.00
14.135	14.060	(0.075)	ADC1A	54273			69.76- 104.64	87.20

Data File: \\SVHPLC\EE\chem\slc01.i\920CALaq.b\SECCCV.D
Report Date: 07-Oct-2002 17:52

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		
14.396	14.396	(0.000)	VWD1A	27373			80.00- 120.00	100.00
14.470	14.396	(0.074)	ADC1A	117424	15.0000	13.8	343.18- 514.77	428.98
7 Fluorene						CAS #: 86-73-7		
14.763	14.763	(0.000)	VWD1A	344983	15.0000	14.7		
8 Phenanthrene						CAS #: 85-01-8		
15.580	15.580	(0.000)	VWD1A	1098130			80.00- 120.00	100.00
15.656	15.580	(0.076)	ADC1A	436024	15.0000	14.5	31.76- 47.65	39.71
9 Anthracene						CAS #: 120-12-7		
16.326	16.326	(0.000)	VWD1A	2508412	15.0000	15.0	80.00- 120.00	100.00
16.400	16.326	(0.074)	ADC1A	48792			1.56- 2.33	1.95
10 Fluoranthene						CAS #: 206-44-0		
17.156	17.156	(0.000)	VWD1A	254769	15.0000	14.7		
11 Pyrene						CAS #: 129-00-0		
17.710	17.710	(0.000)	VWD1A	195244	15.0000	14.8	80.00- 120.00	100.00
17.786	17.710	(0.076)	ADC1A	1911801			783.35-1175.02	979.19
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.760	18.760	(0.000)	VWD1A	206163	15.0000	15.5	80.00- 120.00	100.00
18.835	18.760	(0.075)	ADC1A	2605040			1010.87-1516.30	1263.58
13 Benzo(a)Anthracene						CAS #: 56-55-3		
19.543	19.543	(0.000)	VWD1A	551724	15.0000	14.6	80.00- 120.00	100.00
19.621	19.543	(0.078)	ADC1A	2872328			416.49- 624.73	520.61
14 Chrysene						CAS #: 218-01-9		
19.960	19.960	(0.000)	VWD1A	709519			80.00- 120.00	100.00
20.038	19.960	(0.078)	ADC1A	1184753	15.0000	14.8	133.58- 200.38	166.98
15 Benzo(b)Fluoranthene						CAS #: 205-99-2		
21.366	21.366	(0.000)	VWD1A	610699	15.0000	14.7	80.00- 120.00	100.00
21.441	21.366	(0.075)	ADC1A	108263			14.18- 21.27	17.73
16 Benzo(k)Fluoranthene						CAS #: 207-08-9		
22.016	22.016	(0.000)	VWD1A	544890	15.0000	14.8	80.00- 120.00	100.00
22.091	22.016	(0.075)	ADC1A	296012			43.46- 65.19	54.33
17 Benzo(a)pyrene						CAS #: 50-32-8		
22.620	22.620	(0.000)	VWD1A	556453			80.00- 120.00	100.00
22.698	22.620	(0.078)	ADC1A	710466	15.0000	14.2	102.14- 153.21	127.68

Data File: \\SVHPLC\EE\chem\slc01.i\920CALaq.b\SECCCV.D
Report Date: 07-Oct-2002 17:52

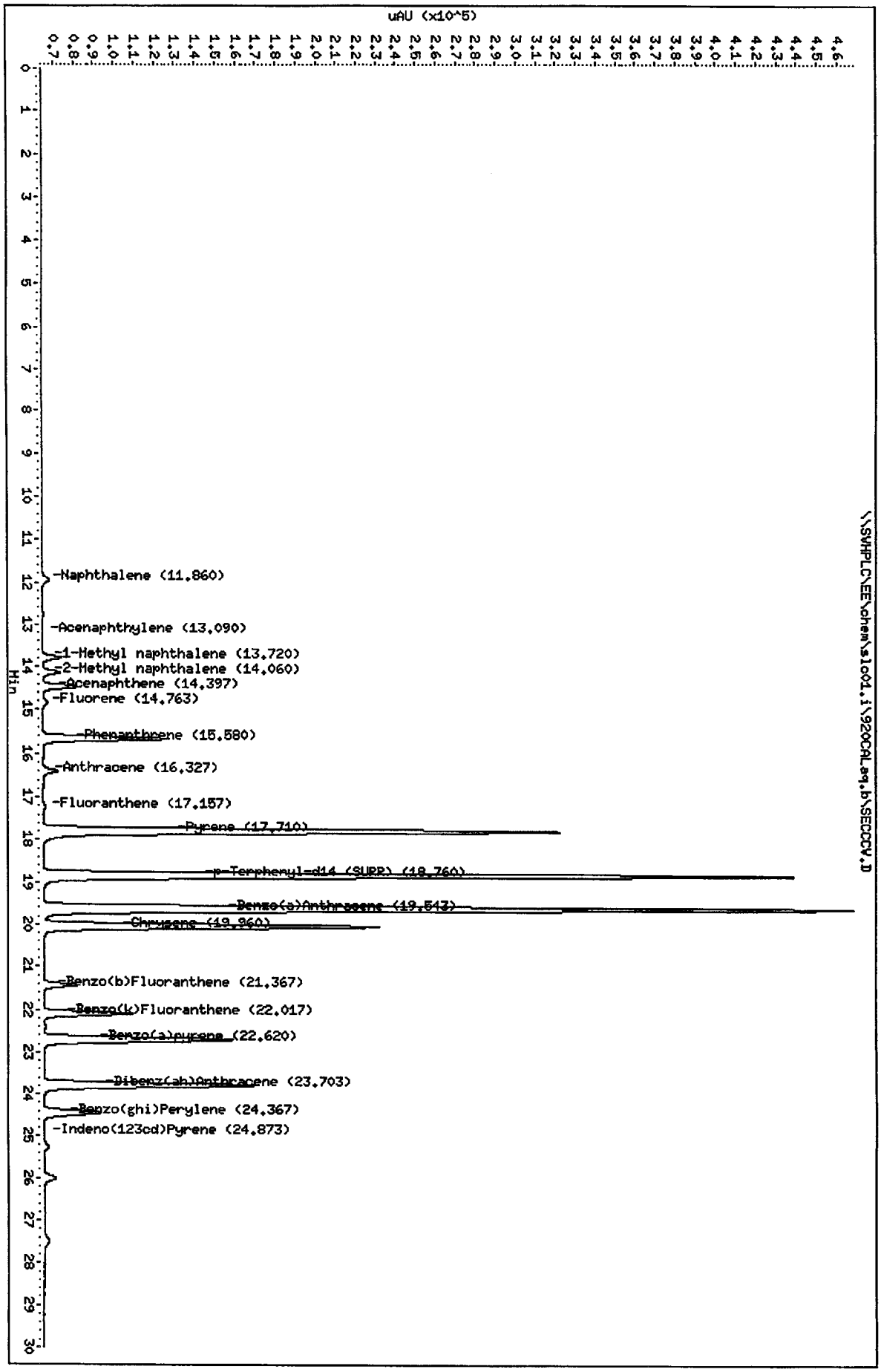
RT	EXP RT	DLT RT	SIGNAL	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO
18 Dibenz(ah)Anthracene						CAS #: 53-70-3		
23.703	23.703	(0.000)	VWD1A	123995			80.00- 120.00	100.00
23.780	23.703	(0.077)	ADC1A	816319	15.0000	14.6	526.68- 790.02	658.35
19 Benzo(ghi)Perylene						CAS #: 191-24-2		
24.366	24.366	(0.000)	VWD1A	228004	15.0000	14.8	80.00- 120.00	100.00
24.443	24.366	(0.077)	ADC1A	238343			83.63- 125.44	104.53
20 Indeno(123cd)Pyrene						CAS #: 193-39-5		
24.873	24.873	(0.000)	VWD1A	700717	15.0000	14.8		(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\SVHPLC\EE\ohem\slc01.i\920CALaq.b\SECCCV.D
Date : 19-SEP-2002 22:57
Client ID: SECCCV
Sample Info: SV6512
Column phase: Vydac 201TP54

Instrument: slc01.i
Operator: HARTY
Column diameter: 4.60



Data File: \\SVHPLC\EE\chem\slc01.i\L1092702.b\CCV1.D
Report Date: 07-Oct-2002 17:16

PEL Laboratories, Inc.

Data file : \\SVHPLC\EE\chem\slc01.i\L1092702.b\CCV1.D
Lab Smp Id: SV6507 Client Smp ID: CCV1
Inj Date : 27-SEP-2002 11:45
Operator : MARTY Inst ID: slc01.i
Smp Info : SV6507
Misc Info :
Comment :
Method : \\SVHPLC\EE\chem\slc01.i\L1092702.b\8310AE.m
Meth Date : 07-Oct-2002 17:13 amarty Quant Type: ESTD
Cal Date : 19-SEP-2002 22:22 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		
11.850	11.850	(0.000)	VWD1A	75652	15.0000	15.5	80.00- 120.00	100.00
11.927	11.850	(0.077)	ADC1A	31082			32.87- 49.30	41.09
3 Acenaphthylene						CAS #: 208-96-8		
13.070	13.070	(0.000)	VWD1A	60128	15.0000	15.7		
4 1-Methyl naphthalene						CAS #: 90-12-0		
13.706	13.706	(0.000)	VWD1A	45266			80.00- 120.00	100.00
13.782	13.706	(0.076)	ADC1A	61456	15.0000	14.4	108.61- 162.92	135.77
5 2-Methyl naphthalene						CAS #: 91-57-6		
14.043	14.043	(0.000)	VWD1A	64828	15.0000	15.5	80.00- 120.00	100.00
14.120	14.043	(0.077)	ADC1A	56002			69.11- 103.66	86.39

Data File: \\SVHPLC\EE\chem\slc01.i\L1092702.b\CCV1.D
Report Date: 07-Oct-2002 17:16

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	
14.376	14.376	(0.000)	VWD1A	28863			80.00- 120.00	100.00
14.454	14.376	(0.078)	ADC1A	124053	15.0000	14.5	343.84- 515.76	429.80
7 Fluorene							CAS #: 86-73-7	
14.740	14.740	(0.000)	VWD1A	364795	15.0000	15.6		
8 Phenanthrene							CAS #: 85-01-8	
15.550	15.550	(0.000)	VWD1A	1162093			80.00- 120.00	100.00
15.625	15.550	(0.075)	ADC1A	462152	15.0000	15.3	31.82- 47.72	39.77
9 Anthracene							CAS #: 120-12-7	
16.286	16.286	(0.000)	VWD1A	2709920	15.0000	16.2	80.00- 120.00	100.00
16.359	16.286	(0.073)	ADC1A	54008			1.59- 2.39	1.99
10 Fluoranthene							CAS #: 206-44-0	
17.116	17.116	(0.000)	VWD1A	269084	15.0000	15.5		
11 Pyrene							CAS #: 129-00-0	
17.666	17.666	(0.000)	VWD1A	204864	15.0000	15.5	80.00- 120.00	100.00
17.742	17.666	(0.076)	ADC1A	2048657			800.01-1200.01	1000.01
$ 12 p-Terphenyl-d14 (SURR)							CAS #: 1718-51-0	
18.693	18.693	(0.000)	VWD1A	207642	15.0000	15.6	80.00- 120.00	100.00
18.769	18.693	(0.076)	ADC1A	2595128			999.85-1499.77	1249.81
13 Benzo(a)Anthracene							CAS #: 56-55-3	
19.480	19.480	(0.000)	VWD1A	584856	15.0000	15.5	80.00- 120.00	100.00
19.554	19.480	(0.074)	ADC1A	3049010			417.06- 625.59	521.33
14 Chrysene							CAS #: 218-01-9	
19.886	19.886	(0.000)	VWD1A	749804			80.00- 120.00	100.00
19.957	19.886	(0.071)	ADC1A	1242292	15.0000	15.5	132.55- 198.82	165.68
15 Benzo(b)Fluoranthene							CAS #: 205-99-2	
21.286	21.286	(0.000)	VWD1A	646231	15.0000	15.5	80.00- 120.00	100.00
21.360	21.286	(0.074)	ADC1A	116724			14.45- 21.67	18.06
16 Benzo(k)Fluoranthene							CAS #: 207-08-9	
21.926	21.926	(0.000)	VWD1A	576009	15.0000	15.6	80.00- 120.00	100.00
22.004	21.926	(0.078)	ADC1A	315951			43.88- 65.82	54.85
17 Benzo(a)pyrene							CAS #: 50-32-8	
22.526	22.526	(0.000)	VWD1A	593841			80.00- 120.00	100.00
22.602	22.526	(0.076)	ADC1A	780370	15.0000	15.6	105.13- 157.69	131.41

Data File: \\SVHPLC\EE\chem\slc01.i\L1092702.b\CCV1.D
Report Date: 07-Oct-2002 17:16

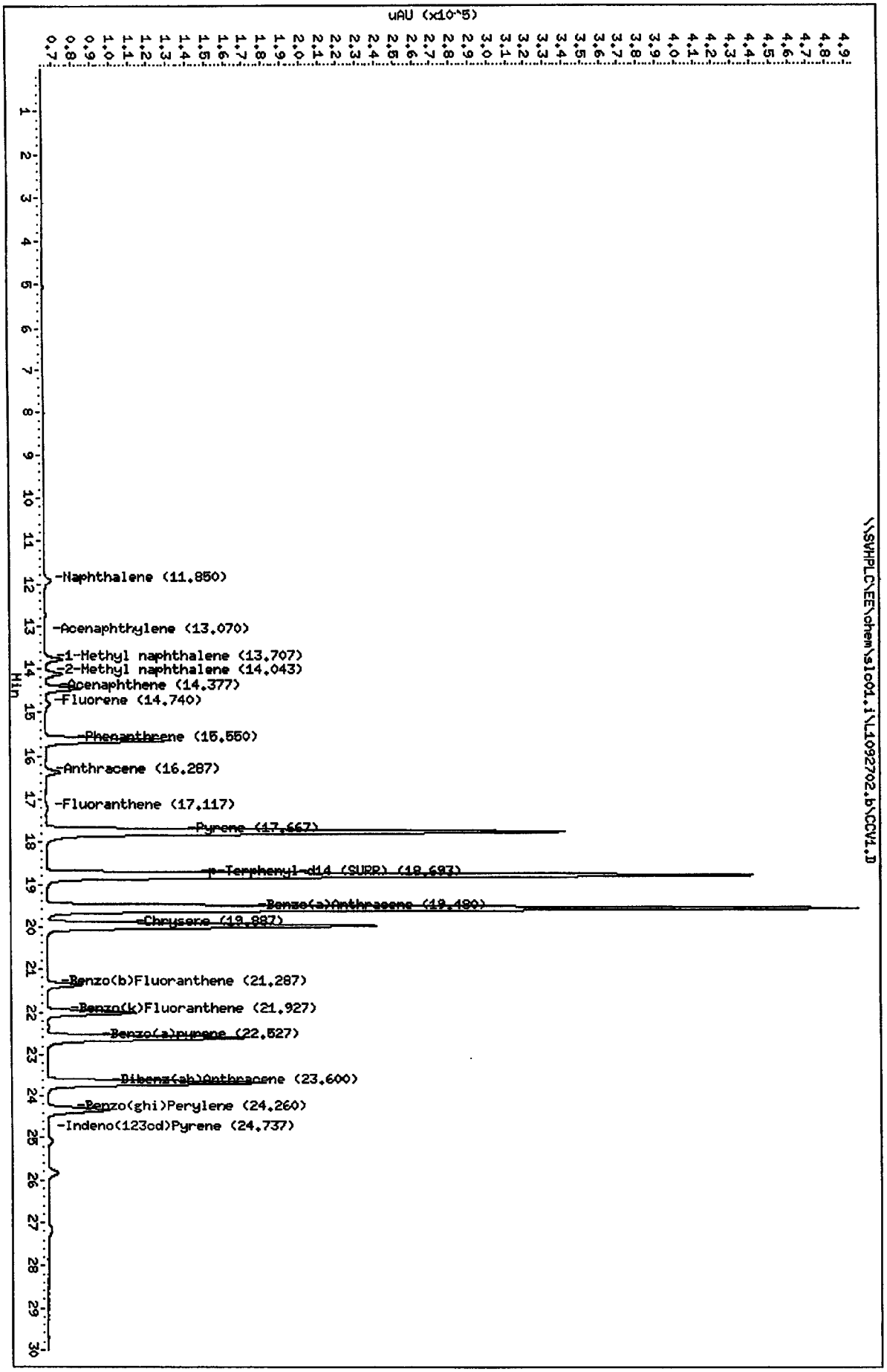
RT	EXP RT	DLT RT	SIGNAL	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	
18 Dibenz(ah)Anthracene						CAS #: 53-70-3			
23.600	23.600	(0.000)	VWD1A	133723			80.00- 120.00	100.00	
23.677	23.600	(0.077)	ADC1A	862936	15.0000	15.5	516.25- 774.38	645.32	
19 Benzo(ghi)Perylene						CAS #: 191-24-2			
24.260	24.260	(0.000)	VWD1A	235740	15.0000	15.3	80.00- 120.00	100.00	
24.334	24.260	(0.074)	ADC1A	266130			90.31- 135.47	112.89	
20 Indeno(123cd)Pyrene						CAS #: 193-39-5			
24.736	24.736	(0.000)	VWD1A	736700	15.0000	15.5			(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\SVHPLC\EE\chem\slc01.i\L1092702.b\CCV1.D
Date : 27-SEP-2002 11:45
Client ID: CCV1
Sample Info: SV6507
Purge Volume: 1000.0
Column phase: Vydac 201TP54

Instrument: slc01.i
Operator: HARTY
Column diameter: 4.60



Data File: \\SVHPLC\EE\chem\slc01.i\L1092702.b\CCV2.D
Report Date: 07-Oct-2002 17:16

PEL Laboratories, Inc.

Data file : \\SVHPLC\EE\chem\slc01.i\L1092702.b\CCV2.D
Lab Smp Id: SV6507 Client Smp ID: CCV2
Inj Date : 27-SEP-2002 18:06
Operator : MARTY Inst ID: slc01.i
Smp Info : SV6507
Misc Info :
Comment :
Method : \\SVHPLC\EE\chem\slc01.i\L1092702.b\8310AE.m
Meth Date : 07-Oct-2002 17:13 amarty Quant Type: ESTD
Cal Date : 19-SEP-2002 22:22 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		
11.880	11.850	(0.030)	VWD1A	75497	15.0000	15.4	80.00- 120.00	100.00
11.958	11.850	(0.108)	ADC1A	31065			32.87- 49.30	41.15
3 Acenaphthylene						CAS #: 208-96-8		
13.096	13.070	(0.026)	VWD1A	59864	15.0000	15.6		
4 1-Methyl naphthalene						CAS #: 90-12-0		
13.730	13.706	(0.024)	VWD1A	45139			80.00- 120.00	100.00
13.804	13.706	(0.098)	ADC1A	61379	15.0000	14.4	108.61- 162.92	135.98
5 2-Methyl naphthalene						CAS #: 91-57-6		
14.066	14.043	(0.023)	VWD1A	64827	15.0000	15.5	80.00- 120.00	100.00
14.139	14.043	(0.096)	ADC1A	56198			69.11- 103.66	86.69

Data File: \\SVHPLC\EE\chem\slc01.i\L1092702.b\CCV2.D
Report Date: 07-Oct-2002 17:16

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		
14.396	14.376	(0.020)	VWD1A	28830			80.00- 120.00	100.00
14.471	14.376	(0.095)	ADC1A	121488	15.0000	14.2	343.84- 515.76	421.39
7 Fluorene						CAS #: 86-73-7		
14.756	14.740	(0.016)	VWD1A	363869	15.0000	15.5		
8 Phenanthrene						CAS #: 85-01-8		
15.563	15.550	(0.013)	VWD1A	1160199			80.00- 120.00	100.00
15.638	15.550	(0.088)	ADC1A	455545	15.0000	15.1	31.82- 47.72	39.26
9 Anthracene						CAS #: 120-12-7		
16.296	16.286	(0.010)	VWD1A	2697209	15.0000	16.1	80.00- 120.00	100.00
16.371	16.286	(0.085)	ADC1A	54262			1.59- 2.39	2.01
10 Fluoranthene						CAS #: 206-44-0		
17.123	17.116	(0.007)	VWD1A	268384	15.0000	15.5		
11 Pyrene						CAS #: 129-00-0		
17.670	17.666	(0.004)	VWD1A	205297	15.0000	15.5	80.00- 120.00	100.00
17.748	17.666	(0.082)	ADC1A	1974019			800.01-1200.01	961.54
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.690	18.693	(-0.003)	VWD1A	207021	15.0000	15.5	80.00- 120.00	100.00
18.764	18.693	(0.071)	ADC1A	2556053			999.85-1499.77	1234.68
13 Benzo(a)Anthracene						CAS #: 56-55-3		
19.473	19.480	(-0.007)	VWD1A	583791	15.0000	15.5	80.00- 120.00	100.00
19.546	19.480	(0.066)	ADC1A	2986720			417.06- 625.59	511.61
14 Chrysene						CAS #: 218-01-9		
19.876	19.886	(-0.010)	VWD1A	748958			80.00- 120.00	100.00
19.951	19.886	(0.065)	ADC1A	1219102	15.0000	15.2	132.55- 198.82	162.77
15 Benzo(b)Fluoranthene						CAS #: 205-99-2		
21.270	21.286	(-0.016)	VWD1A	644135	15.0000	15.5	80.00- 120.00	100.00
21.344	21.286	(0.058)	ADC1A	114369			14.45- 21.67	17.76
16 Benzo(k)Fluoranthene						CAS #: 207-08-9		
21.906	21.926	(-0.020)	VWD1A	573789	15.0000	15.6	80.00- 120.00	100.00
21.983	21.926	(0.057)	ADC1A	312722			43.88- 65.82	54.50
17 Benzo(a)pyrene						CAS #: 50-32-8		
22.506	22.526	(-0.020)	VWD1A	591428			80.00- 120.00	100.00
22.581	22.526	(0.055)	ADC1A	764607	15.0000	15.3	105.13- 157.69	129.28

Data File: \\SVHPLC\EE\chem\slc01.i\L1092702.b\CCV2.D
Report Date: 07-Oct-2002 17:16

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			
23.570	23.600	(-0.030)	VWD1A	131463			80.00- 120.00	100.00	
23.644	23.600	(0.044)	ADC1A	844147	15.0000	15.1	516.25- 774.38	642.12	
19 Benzo(ghi)Perylene						CAS #: 191-24-2			
24.233	24.260	(-0.027)	VWD1A	235389	15.0000	15.3	80.00- 120.00	100.00	
24.308	24.260	(0.048)	ADC1A	257182			90.31- 135.47	109.26	
20 Indeno(123cd)Pyrene						CAS #: 193-39-5			
24.706	24.736	(-0.030)	VWD1A	732240	15.0000	15.4			(M)

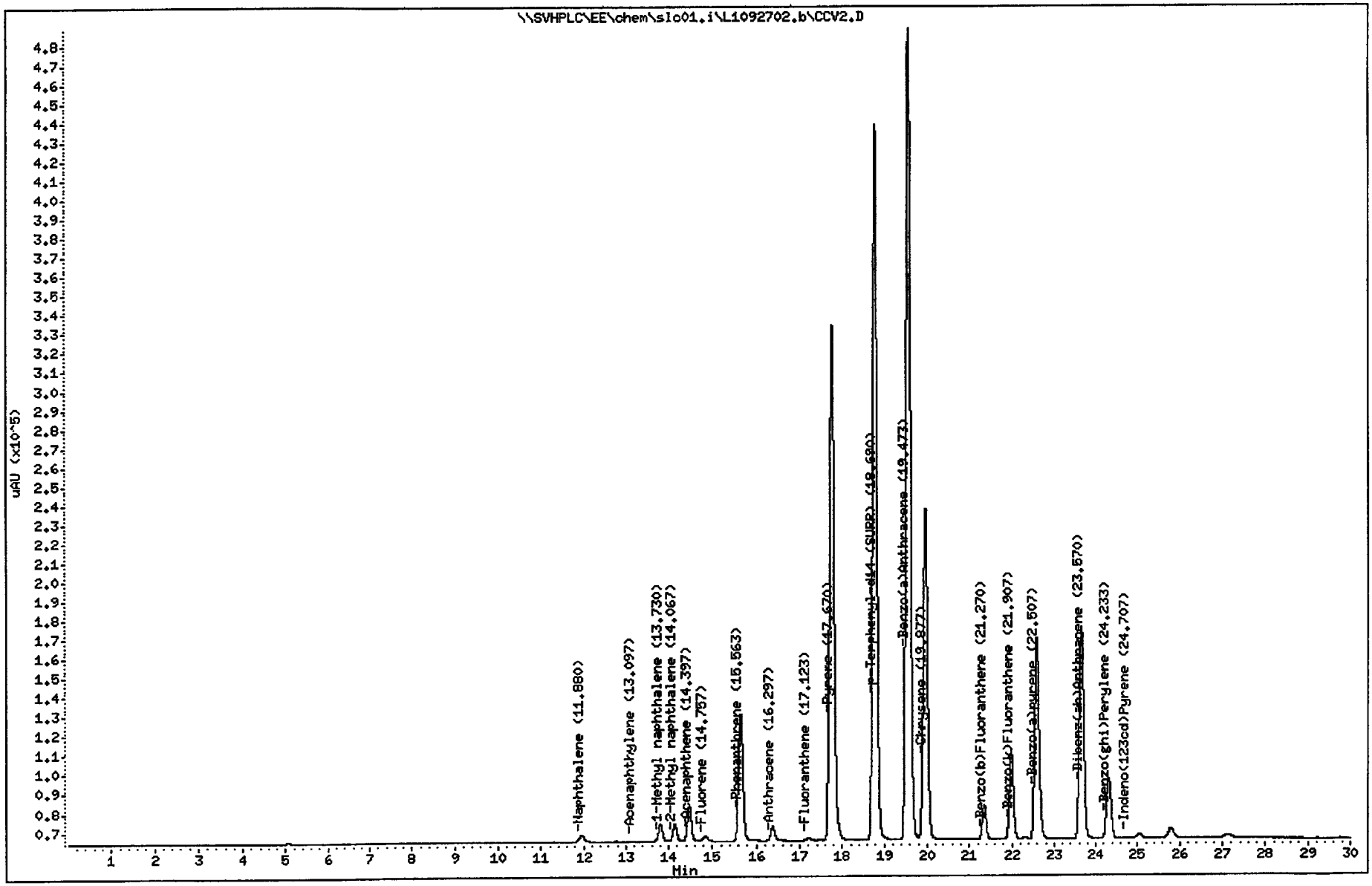
QC Flag Legend

M - Compound response manually integrated.

Data File: \\SVHPLC\EE\chem\slc01.i\L1092702.b\CCV2.D
Date : 27-SEP-2002 18:06
Client ID: CCV2
Sample Info: SV6507
Purge Volume: 1000.0
Column phase: Vydac 201TP54

Instrument: slc01.i

Operator: MARTY
Column diameter: 4.60



Data File: \\SVHPLC\EE\chem\slc01.i\L1092702.b\CCV3.D
Report Date: 07-Oct-2002 17:17

PEL Laboratories, Inc.

Data file : \\SVHPLC\EE\chem\slc01.i\L1092702.b\CCV3.D
Lab Smp Id: SV6507 Client Smp ID: CCV3
Inj Date : 27-SEP-2002 23:52
Operator : MARTY Inst ID: slc01.i
Smp Info : SV6507
Misc Info :
Comment :
Method : \\SVHPLC\EE\chem\slc01.i\L1092702.b\8310AE.m
Meth Date : 07-Oct-2002 17:13 amarty Quant Type: ESTD
Cal Date : 19-SEP-2002 22:22 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		
11.873	11.850	(0.023)	VWD1A	75438	15.0000	15.4	80.00- 120.00	100.00
11.944	11.850	(0.094)	ADC1A	32635			32.87- 49.30	43.26
3 Acenaphthylene						CAS #: 208-96-8		
13.090	13.070	(0.020)	VWD1A	59828	15.0000	15.6		
4 1-Methyl naphthalene						CAS #: 90-12-0		
13.723	13.706	(0.017)	VWD1A	45131			80.00- 120.00	100.00
13.799	13.706	(0.093)	ADC1A	61453	15.0000	14.4	108.61- 162.92	136.17
5 2-Methyl naphthalene						CAS #: 91-57-6		
14.060	14.043	(0.017)	VWD1A	64616	15.0000	15.4	80.00- 120.00	100.00
14.135	14.043	(0.092)	ADC1A	57442			69.11- 103.66	88.90

Data File: \\SVHPLC\EE\chem\slc01.i\L1092702.b\CCV3.D
Report Date: 07-Oct-2002 17:17

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	
14.390	14.376	(0.014)	VWD1A	28575			80.00- 120.00	100.00
14.467	14.376	(0.091)	ADC1A	123055	15.0000	14.4	343.84- 515.76	430.64
7 Fluorene							CAS #: 86-73-7	
14.750	14.740	(0.010)	VWD1A	362345	15.0000	15.5		
8 Phenanthrene							CAS #: 85-01-8	
15.556	15.550	(0.006)	VWD1A	1155780			80.00- 120.00	100.00
15.634	15.550	(0.084)	ADC1A	458176	15.0000	15.2	31.82- 47.72	39.64
9 Anthracene							CAS #: 120-12-7	
16.293	16.286	(0.007)	VWD1A	2689492	15.0000	16.1	80.00- 120.00	100.00
16.370	16.286	(0.084)	ADC1A	54859			1.59- 2.39	2.04
10 Fluoranthene							CAS #: 206-44-0	
17.120	17.116	(0.004)	VWD1A	267687	15.0000	15.4		
11 Pyrene							CAS #: 129-00-0	
17.670	17.666	(0.004)	VWD1A	204377	15.0000	15.5	80.00- 120.00	100.00
17.750	17.666	(0.084)	ADC1A	2023388			800.01-1200.01	990.03
$ 12 p-Terphenyl-d14 (SURR)							CAS #: 1718-51-0	
18.690	18.693	(-0.003)	VWD1A	207366	15.0000	15.6	80.00- 120.00	100.00
18.765	18.693	(0.072)	ADC1A	2564693			999.85-1499.77	1236.80
13 Benzo(a)Anthracene							CAS #: 56-55-3	
19.476	19.480	(-0.004)	VWD1A	581622	15.0000	15.4	80.00- 120.00	100.00
19.550	19.480	(0.070)	ADC1A	3008184			417.06- 625.59	517.21
14 Chrysene							CAS #: 218-01-9	
19.880	19.886	(-0.006)	VWD1A	746645			80.00- 120.00	100.00
19.952	19.886	(0.066)	ADC1A	1223585	15.0000	15.3	132.55- 198.82	163.88
15 Benzo(b)Fluoranthene							CAS #: 205-99-2	
21.280	21.286	(-0.006)	VWD1A	641390	15.0000	15.4	80.00- 120.00	100.00
21.352	21.286	(0.066)	ADC1A	114994			14.45- 21.67	17.93
16 Benzo(k)Fluoranthene							CAS #: 207-08-9	
21.920	21.926	(-0.006)	VWD1A	571758	15.0000	15.5	80.00- 120.00	100.00
21.995	21.926	(0.069)	ADC1A	312963			43.88- 65.82	54.74
17 Benzo(a)pyrene							CAS #: 50-32-8	
22.516	22.526	(-0.010)	VWD1A	588724			80.00- 120.00	100.00
22.595	22.526	(0.069)	ADC1A	769406	15.0000	15.4	105.13- 157.69	130.69

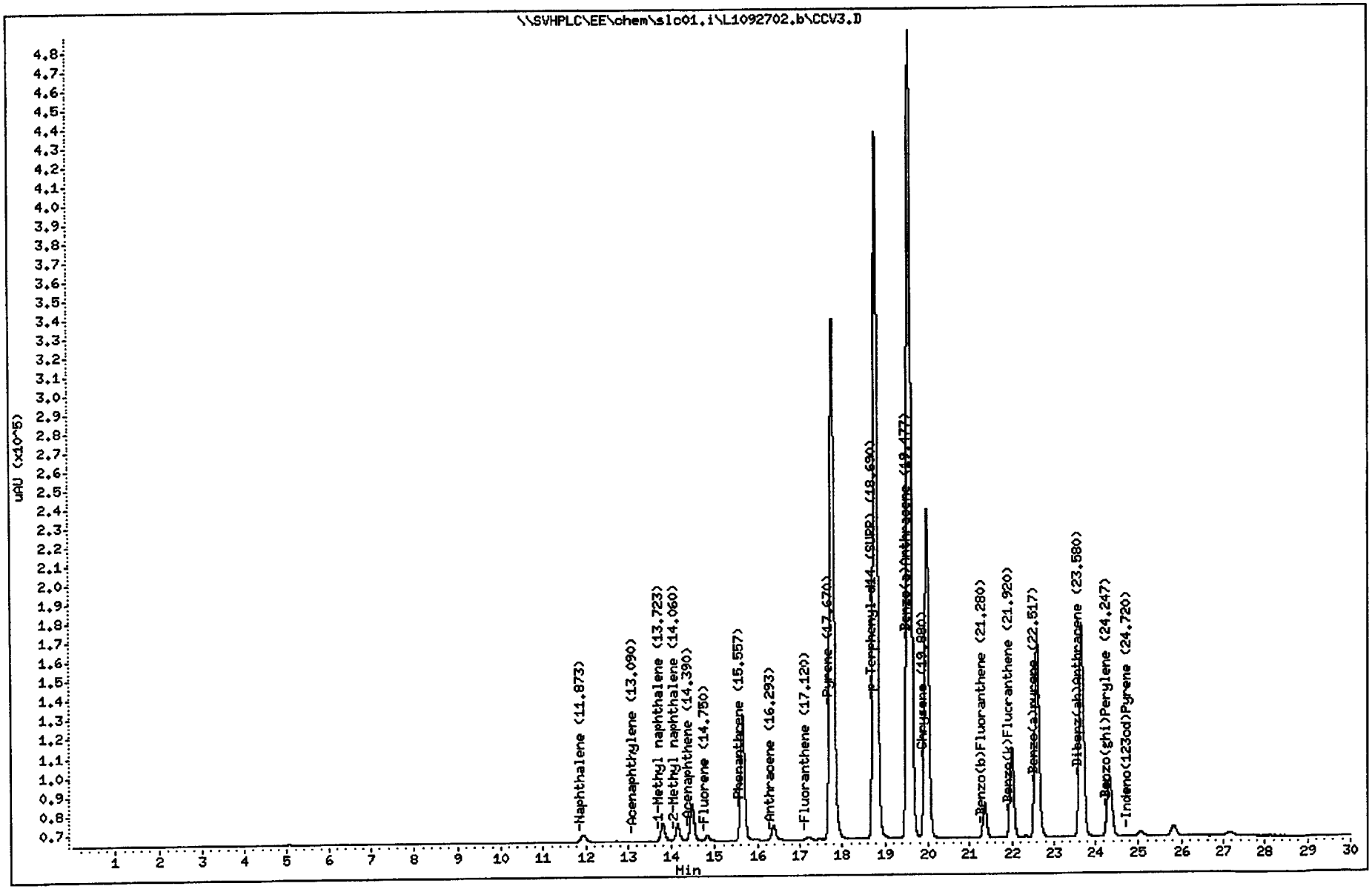
Data File: \\SVHPLC\EE\chem\slc01.i\L1092702.b\CCV3.D
Report Date: 07-Oct-2002 17:17

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	
23.580	23.600	(-0.020)	VWD1A	130640			80.00- 120.00	100.00
23.659	23.600	(0.059)	ADC1A	845104	15.0000	15.1	516.25- 774.38	646.90
19 Benzo(ghi)Perylene							CAS #: 191-24-2	
24.246	24.260	(-0.014)	VWD1A	234214	15.0000	15.2	80.00- 120.00	100.00
24.320	24.260	(0.060)	ADC1A	259551			90.31- 135.47	110.82
20 Indeno(123cd)Pyrene							CAS #: 193-39-5	
24.720	24.736	(-0.016)	VWD1A	729576	15.0000	15.4		

Data File: \\SVHPLC\EE\chem\slc01.i\L1092702.b\CCV3.D
Date : 27-SEP-2002 23:52
Client ID: CCV3
Sample Info: SV6507
Purge Volume: 1000.0
Column phase: Vydac 201TP54

Instrument: slc01.i

Operator: MARTY
Column diameter: 4.60



Data File: \\SVHPLC\EE\chem\slc01.i\L1092702.b\926BLK.D
Report Date: 07-Oct-2002 17:16

PEL Laboratories, Inc.

Data file : \\SVHPLC\EE\chem\slc01.i\L1092702.b\926BLK.D
Lab Smp Id: 81419 Client Smp ID: 92602BLK01
Inj Date : 27-SEP-2002 12:20
Operator : MARTY Inst ID: slc01.i
Smp Info : 81419
Misc Info :
Comment :
Method : \\SVHPLC\EE\chem\slc01.i\L1092702.b\8310AE.m
Meth Date : 07-Oct-2002 17:13 amarty Quant Type: ESTD
Cal Date : 19-SEP-2002 22:22 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

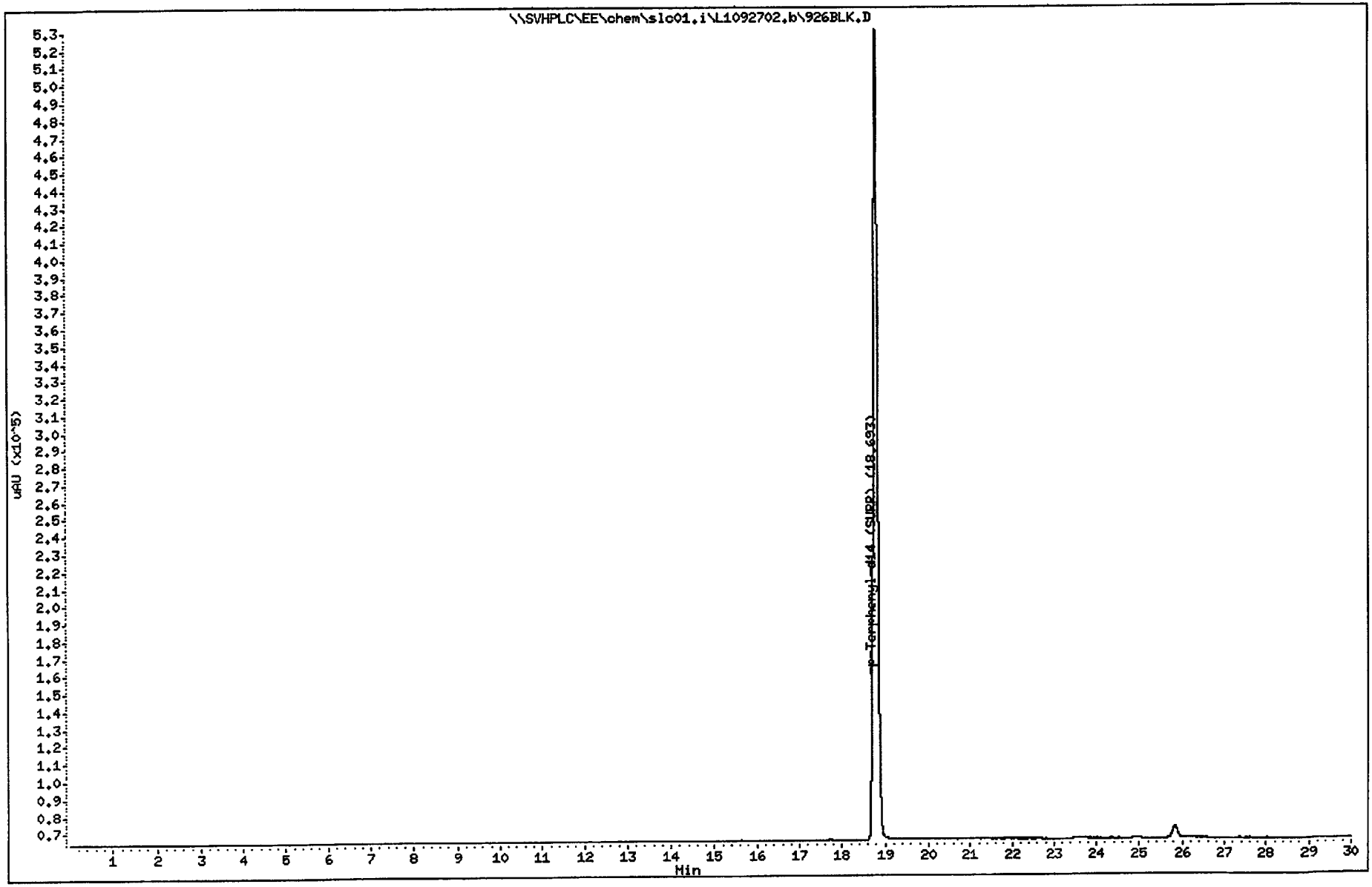
Concentration Formula: Amt * DF * 1/(Vo/1000)*Vt

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		
18.693	18.693	(0.000)	VWD1A	253265	19.0024	19.0	80.00- 120.00	100.00
18.768	18.693	(0.075)	ADC1A	3243728			999.85-1499.77	1280.76

Data File: \\SVHPLC\EE\chem\slc01.i\L1092702.b\926BLK.D
Date : 27-SEP-2002 12:20
Client ID: 92602BLK01
Sample Info: 81419
Purge Volume: 1000.0
Column phase: Vydac 201TP54

Instrument: slc01.i
Operator: MARTY
Column diameter: 4.60



Data File: \\SVHPLC\EE\chem\slc01.i\L1092702.b\926LCS.D
Report Date: 07-Oct-2002 17:16

PEL Laboratories, Inc.

Data file : \\SVHPLC\EE\chem\slc01.i\L1092702.b\926LCS.D
Lab Smp Id: 81420 Client Smp ID: 92602LCS01
Inj Date : 27-SEP-2002 12:54
Operator : MARTY Inst ID: slc01.i
Smp Info : 81420
Misc Info :
Comment :
Method : \\SVHPLC\EE\chem\slc01.i\L1092702.b\8310AE.m
Meth Date : 07-Oct-2002 17:13 amarty Quant Type: ESTD
Cal Date : 19-SEP-2002 22:22 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		
11.880	11.850	(0.030)	VWD1A	28804	5.88993	5.9	80.00- 120.00	100.00
11.969	11.850	(0.119)	ADC1A	12906			32.87- 49.30	44.81
3 Acenaphthylene						CAS #: 208-96-8		
13.096	13.070	(0.026)	VWD1A	26946	7.04478	7.0		
4 1-Methyl naphthalene						CAS #: 90-12-0		
13.730	13.706	(0.024)	VWD1A	19249			80.00- 120.00	100.00
13.809	13.706	(0.103)	ADC1A	23667	5.54655	5.5	108.61- 162.92	122.95
5 2-Methyl naphthalene						CAS #: 91-57-6		
14.066	14.043	(0.023)	VWD1A	27289	6.52008	6.5	80.00- 120.00	100.00
14.143	14.043	(0.100)	ADC1A	21108			69.11- 103.66	77.35

Data File: \\SVHPLC\EE\chem\slc01.i\L1092702.b\926LCS.D
Report Date: 07-Oct-2002 17:16

RT	EXP RT	DLT RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/l)	TARGET RANGE	RATIO
6 Acenaphthene						CAS #: 83-32-9		
14.400	14.376	(0.024)	VWD1A	12909			80.00- 120.00	100.00
14.473	14.376	(0.097)	ADC1A	47071	5.51396	5.5	343.84- 515.76	364.64
7 Fluorene						CAS #: 86-73-7		
14.756	14.740	(0.016)	VWD1A	167473	7.14873	7.1		
8 Phenanthrene						CAS #: 85-01-8		
15.566	15.550	(0.016)	VWD1A	562287			80.00- 120.00	100.00
15.641	15.550	(0.091)	ADC1A	211033	7.00172	7.0	31.82- 47.72	37.53
9 Anthracene						CAS #: 120-12-7		
16.300	16.286	(0.014)	VWD1A	1348672	8.06325	8.1	80.00- 120.00	100.00
16.373	16.286	(0.087)	ADC1A	27434			1.59- 2.39	2.03
10 Fluoranthene						CAS #: 206-44-0		
17.126	17.116	(0.010)	VWD1A	133590	7.69543	7.7		
11 Pyrene						CAS #: 129-00-0		
17.676	17.666	(0.010)	VWD1A	102675	7.77278	7.8	80.00- 120.00	100.00
17.749	17.666	(0.083)	ADC1A	1011518			800.01-1200.01	985.16
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.696	18.693	(0.003)	VWD1A	224071	16.8120	16.8	80.00- 120.00	100.00
18.771	18.693	(0.078)	ADC1A	2825516			999.85-1499.77	1260.99
13 Benzo(a)Anthracene						CAS #: 56-55-3		
19.480	19.480	(0.000)	VWD1A	299072	7.93950	7.9	80.00- 120.00	100.00
19.556	19.480	(0.076)	ADC1A	1554766			417.06- 625.59	519.86
14 Chrysene						CAS #: 218-01-9		
19.886	19.886	(0.000)	VWD1A	382686			80.00- 120.00	100.00
19.963	19.886	(0.077)	ADC1A	621101	7.75975	7.8	132.55- 198.82	162.30
15 Benzo(b)Fluoranthene						CAS #: 205-99-2		
21.283	21.286	(-0.003)	VWD1A	326459	7.84743	7.8	80.00- 120.00	100.00
21.359	21.286	(0.073)	ADC1A	49469			14.45- 21.67	15.15
16 Benzo(k)Fluoranthene						CAS #: 207-08-9		
21.926	21.926	(0.000)	VWD1A	300290	8.14733	8.1	80.00- 120.00	100.00
21.999	21.926	(0.073)	ADC1A	148306			43.88- 65.82	49.39
17 Benzo(a)pyrene						CAS #: 50-32-8		
22.523	22.526	(-0.003)	VWD1A	294176			80.00- 120.00	100.00
22.599	22.526	(0.073)	ADC1A	363535	7.28360	7.3	105.13- 157.69	123.58

Data File: \\SVHPLC\EE\chem\slc01.i\L1092702.b\926LCS.D
Report Date: 07-Oct-2002 17:16

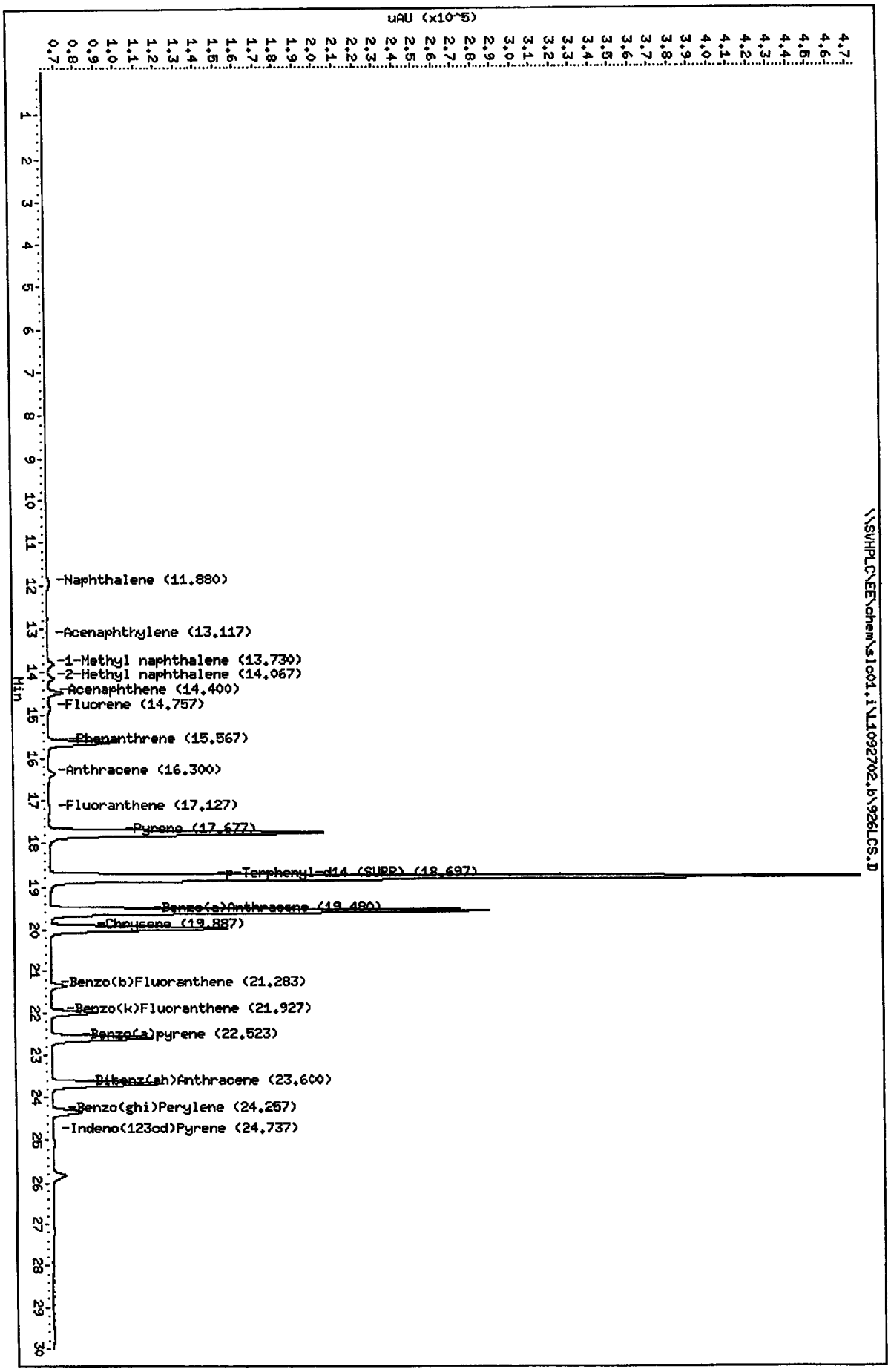
RT	EXP RT	DLT RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/l)	TARGET RANGE	RATIO
18 Dibenz(ah)Anthracene						CAS #: 53-70-3		
23.600	23.600	(0.000)	VWD1A	66281			80.00- 120.00	100.00
23.678	23.600	(0.078)	ADC1A	414273	7.42562	7.4	516.25- 774.38	625.03
19 Benzo(ghi)Perylene						CAS #: 191-24-2		
24.256	24.260	(-0.004)	VWD1A	117606	7.64082	7.6	80.00- 120.00	100.00
24.336	24.260	(0.076)	ADC1A	115559			90.31- 135.47	98.26
20 Indeno(123cd)Pyrene						CAS #: 193-39-5		
24.736	24.736	(0.000)	VWD1A	368266	7.76475	7.8		(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\SVHPLC\EE\chem\slc01.i\L1092702.b\926LCS.D
Date : 27-SEP-2002 12:54
Client ID: 92602LCS01
Sample Info: 81420
Purge Volume: 1000.0
Column phase: Vydac 201TP54

Instrument: slc01.i
Operator: MARTY
Column diameter: 4.60



Data File: \\SVHPLC\EE\chem\slc01.i\L1092702.b\178-1.D
Report Date: 07-Oct-2002 17:14

PEL Laboratories, Inc.

Data file : \\SVHPLC\EE\chem\slc01.i\L1092702.b\178-1.D
Lab Smp Id: 220917801 Client Smp ID: 062MW4Q302
Inj Date : 27-SEP-2002 15:13
Operator : MARTY Inst ID: slc01.i
Smp Info : 220917801
Misc Info :
Comment :
Method : \\SVHPLC\EE\chem\slc01.i\L1092702.b\8310AE.m
Meth Date : 07-Oct-2002 17:13 amarty Quant Type: ESTD
Cal Date : 19-SEP-2002 22:22 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

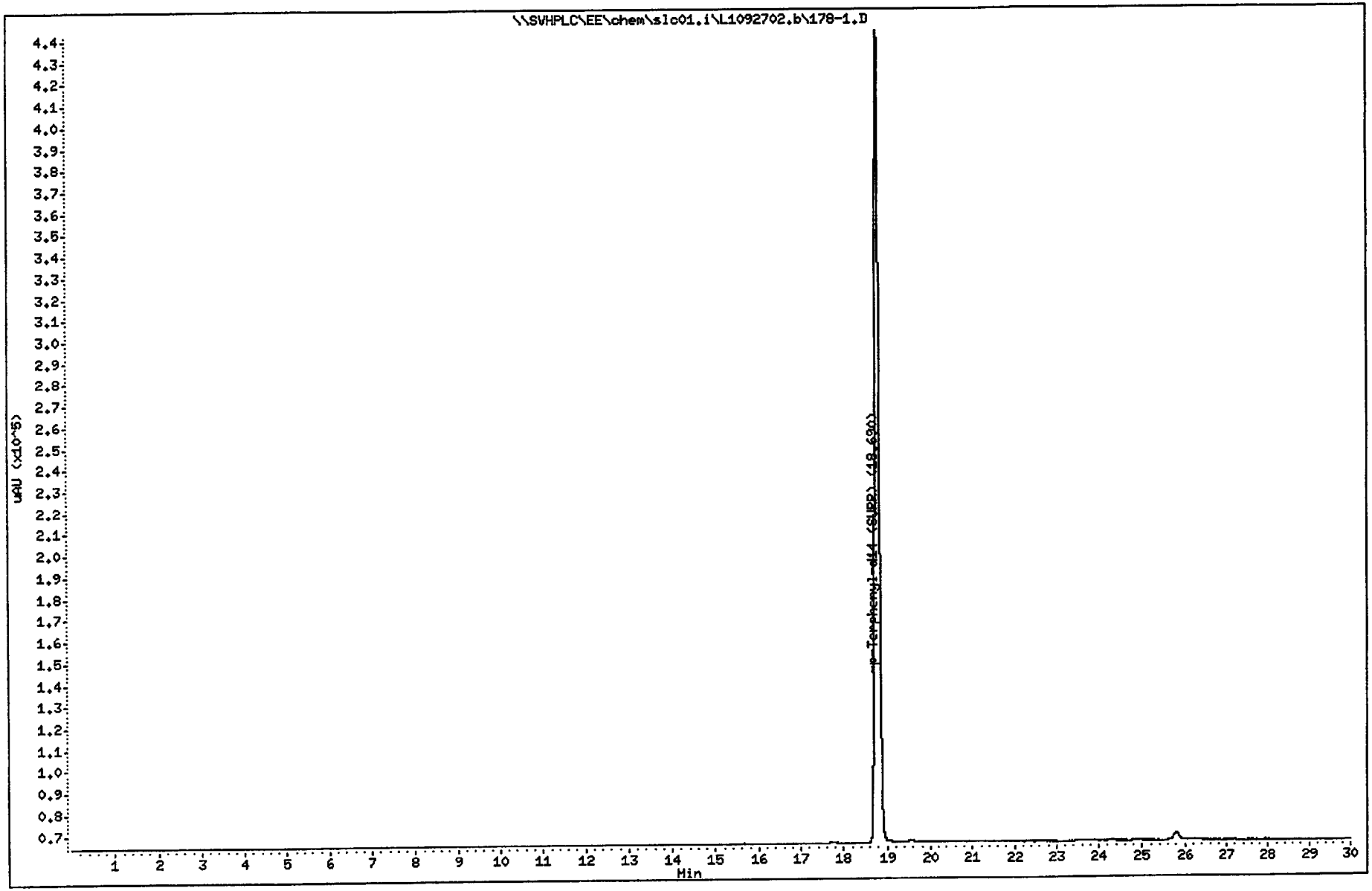
Name	Value	Description
DF	1.000	Dilution Factor
Vo	990.000	Volume Extracted
Vt	1.000	Final Volume

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		
18.690	18.693	(-0.003)	VWD1A	204033	15.3085	15.5	80.00- 120.00	100.00
18.765	18.693	(0.072)	ADC1A	2602774			999.85-1499.77	1275.66

Data File: \\SVHPLC\EE\chem\slc01.i\L1092702.b\178-1.D
Date : 27-SEP-2002 15:13
Client ID: 062MW4Q302
Sample Info: 220917801
Purge Volume: 990.0
Column phase: Vydac 201TP54

Instrument: slc01.i

Operator: MARTY
Column diameter: 4.60



Data File: \\SVHPLC\EE\chem\slc01.i\L1092702.b\178-2.D
Report Date: 07-Oct-2002 17:15

PEL Laboratories, Inc.

Data file : \\SVHPLC\EE\chem\slc01.i\L1092702.b\178-2.D
Lab Smp Id: 220917802 Client Smp ID: 062MW9Q302
Inj Date : 27-SEP-2002 15:47
Operator : MARTY Inst ID: slc01.i
Smp Info : 220917802
Misc Info :
Comment :
Method : \\SVHPLC\EE\chem\slc01.i\L1092702.b\8310AE.m
Meth Date : 07-Oct-2002 17:13 amarty Quant Type: ESTD
Cal Date : 19-SEP-2002 22:22 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

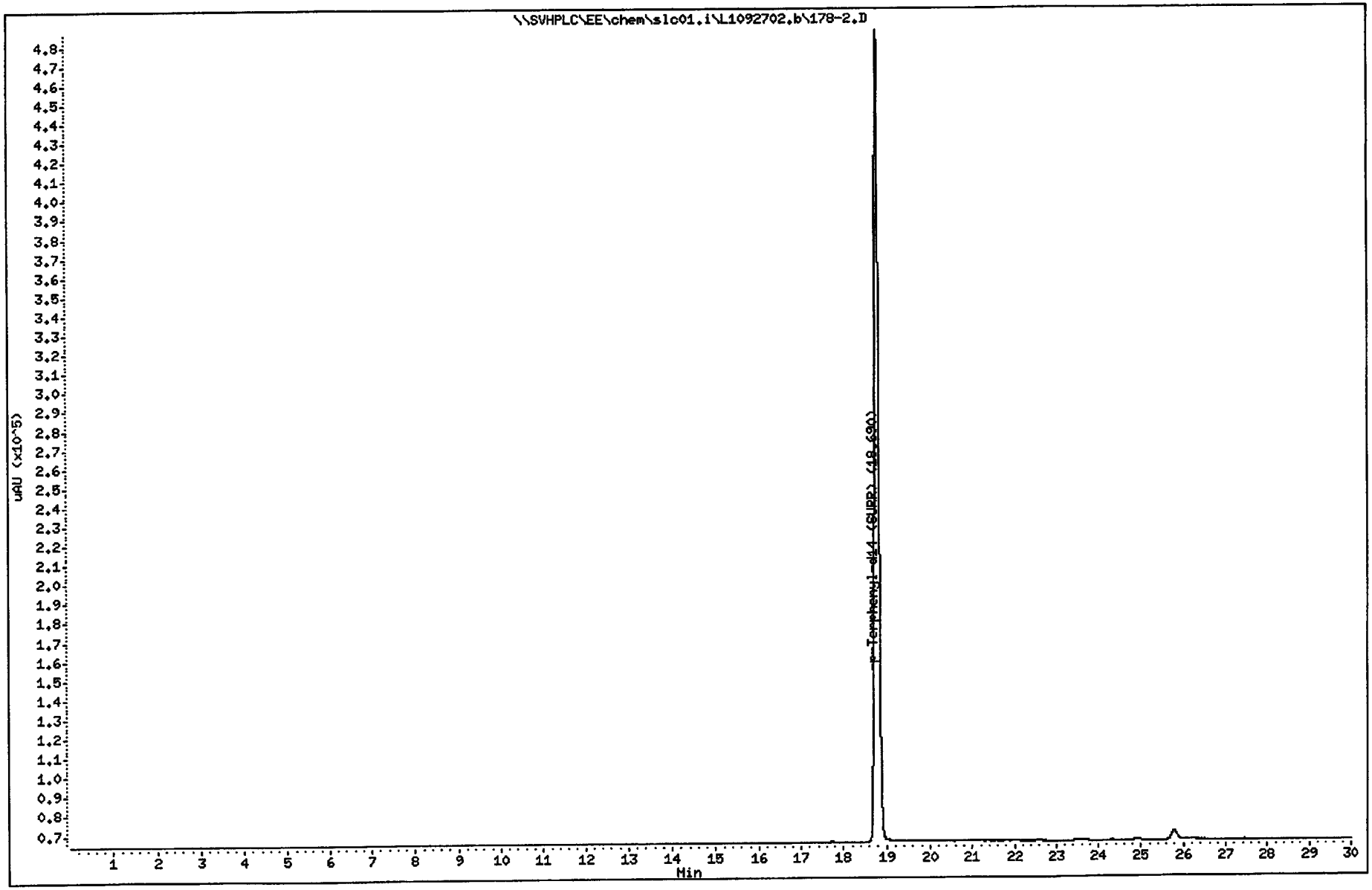
Name	Value	Description
DF	1.000	Dilution Factor
Vo	950.000	Volume Extracted
Vt	1.000	Final Volume

RT	EXP RT	DLT RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/l)	TARGET RANGE	RATIO
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.690	18.693	(-0.003)	VWD1A	228806	17.1672	18.1	80.00- 120.00	100.00
18.765	18.693	(0.072)	ADC1A	2899213			999.85-1499.77	1267.11

Data File: \\SVHPLC\EE\chem\slc01.i\L1092702.b\178-2.D
Date : 27-SEP-2002 15:47
Client ID: 062MW9Q302
Sample Info: 220917802
Purge Volume: 950.0
Column phase: Vydac 201TP54

Instrument: slc01.i

Operator: MARTY
Column diameter: 4.60



Data File: \\SVHPLC\EE\chem\slc01.i\L1092702.b\178-3.D
Report Date: 07-Oct-2002 17:15

PEL Laboratories, Inc.

Data file : \\SVHPLC\EE\chem\slc01.i\L1092702.b\178-3.D
Lab Smp Id: 220917803 Client Smp ID: 062MW13Q302
Inj Date : 27-SEP-2002 16:22
Operator : MARTY Inst ID: slc01.i
Smp Info : 220917803
Misc Info :
Comment :
Method : \\SVHPLC\EE\chem\slc01.i\L1092702.b\8310AE.m
Meth Date : 07-Oct-2002 17:13 amarty Quant Type: ESTD
Cal Date : 19-SEP-2002 22:22 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	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
4 1-Methyl naphthalene						CAS #: 90-12-0		
13.726	13.706	(0.020)	VWD1A	349			80.00- 120.00	100.00(Q)
13.806	13.706	(0.100)	ADC1A	1371	0.32130	0.34	108.61- 162.92	392.84
8 Phenanthrene						CAS #: 85-01-8		
15.566	15.550	(0.016)	VWD1A	6877			80.00- 120.00	100.00(Q)
15.626	15.550	(0.076)	ADC1A	7308	0.24247	0.26	31.82- 47.72	106.27
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.690	18.693	(-0.003)	VWD1A	213137	15.9916	16.8	80.00- 120.00	100.00
18.765	18.693	(0.072)	ADC1A	2716347			999.85-1499.77	1274.46

Data File: \\SVHPLC\EE\chem\slc01.i\L1092702.b\178-3.D
Report Date: 07-Oct-2002 17:15

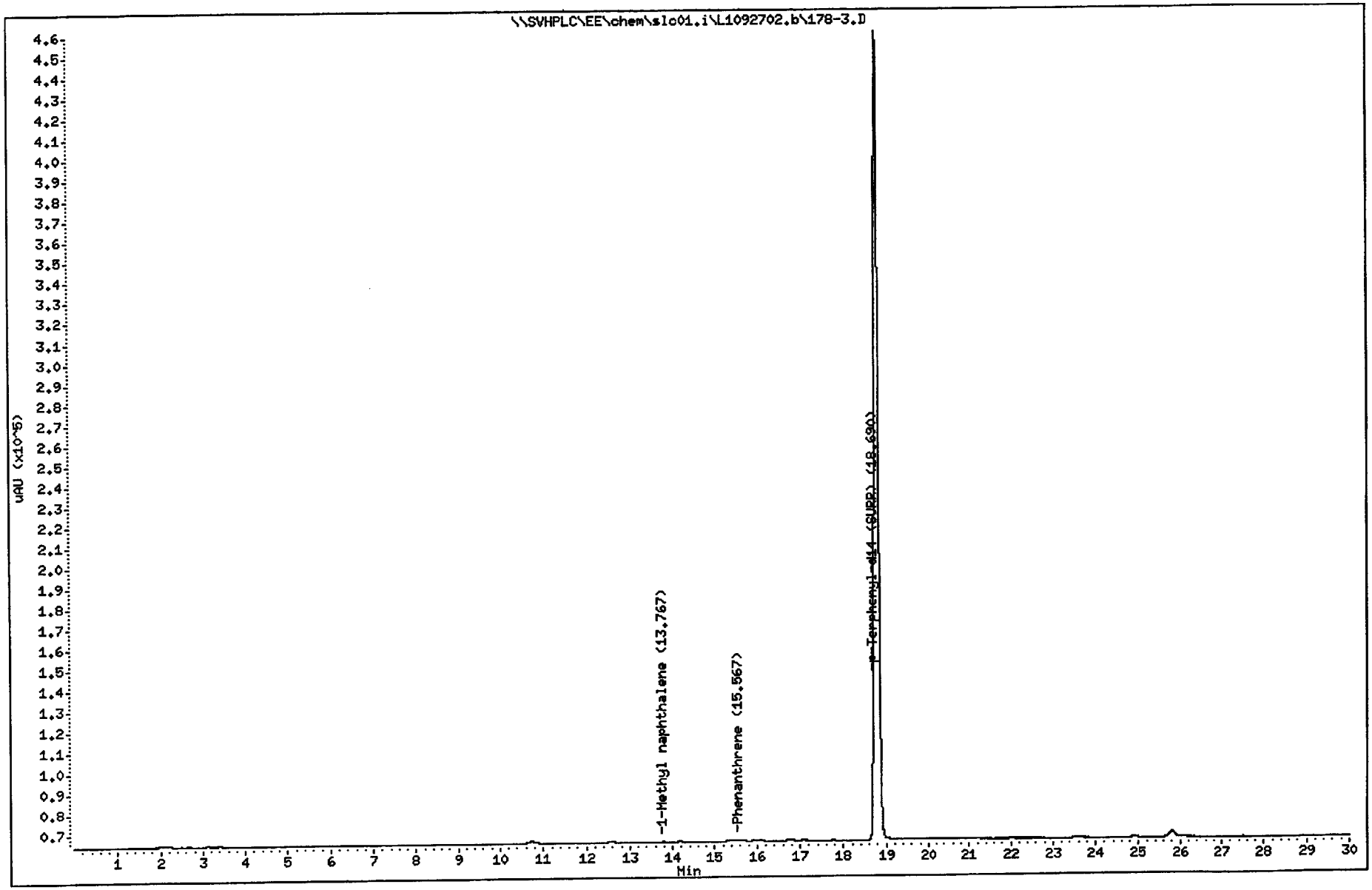
QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\SVHPLC\EE\chem\slc01.i\L1092702.b\178-3.D
Date : 27-SEP-2002 16:22
Client ID: 062MW13Q302
Sample Info: 220917803
Purge Volume: 950.0
Column phase: Vydac 201TP54

Instrument: slc01.i

Operator: MARTY
Column diameter: 4.60



Data File: \\SVHPLC\EE\chem\slc01.i\L1092702.b\178-4.D
Report Date: 07-Oct-2002 17:15

PEL Laboratories, Inc.

Data file : \\SVHPLC\EE\chem\slc01.i\L1092702.b\178-4.D
Lab Smp Id: 220917804 Client Smp ID: 062MW20Q302
Inj Date : 27-SEP-2002 16:56
Operator : MARTY Inst ID: slc01.i
Smp Info : 220917804
Misc Info :
Comment :
Method : \\SVHPLC\EE\chem\slc01.i\L1092702.b\8310AE.m
Meth Date : 07-Oct-2002 17:13 amarty Quant Type: ESTD
Cal Date : 19-SEP-2002 22:22 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	980.000	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		
11.886	11.850	(0.036)	VWD1A	2916	0.59627	0.61	80.00- 120.00	100.00(QM)
11.957	11.850	(0.107)	ADC1A	3436			32.87- 49.30	117.86
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.686	18.693	(-0.007)	VWD1A	225077	16.8875	17.2	80.00- 120.00	100.00
18.759	18.693	(0.066)	ADC1A	2860472			999.85-1499.77	1270.89

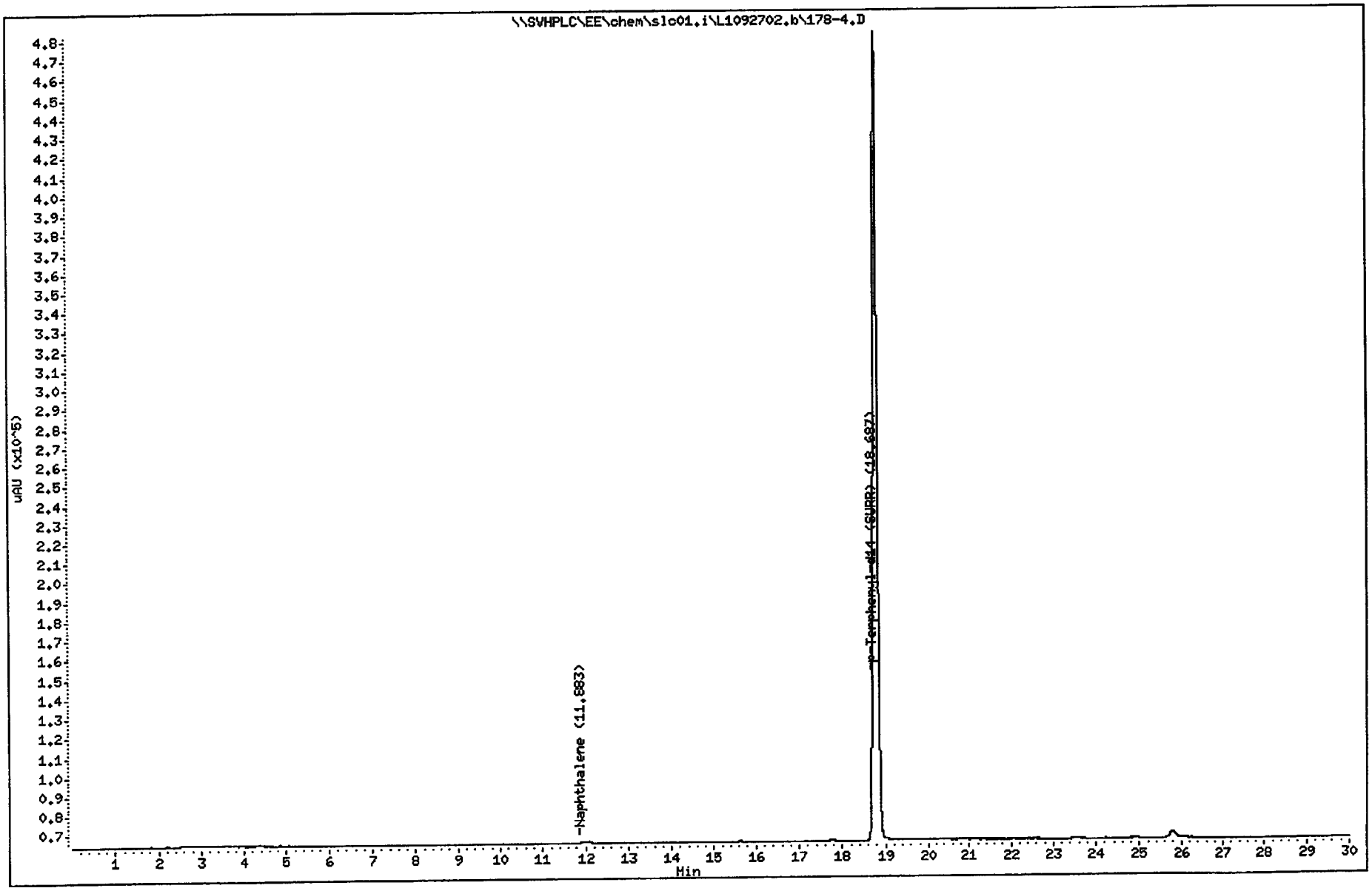
QC Flag Legend

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

Data File: \\SVHPLC\EE\chem\slc01.i\L1092702.b\178-4.D
Date : 27-SEP-2002 16:56
Client ID: 062MW20Q302
Sample Info: 220917804
Purge Volume: 980.0
Column phase: Vydac 201TP54

Instrument: slc01.i

Operator: MARTY
Column diameter: 4.60



Data File: \\SVHPLC\EE\chem\slc01.i\L1092702.b\178-5MS.D
Report Date: 07-Oct-2002 17:15

PEL Laboratories, Inc.

Data file : \\SVHPLC\EE\chem\slc01.i\L1092702.b\178-5MS.D
Lab Smp Id: 220917805 Client Smp ID: 062MW20Q302MS
Inj Date : 27-SEP-2002 14:03
Operator : MARTY Inst ID: slc01.i
Smp Info : 220917805
Misc Info :
Comment :
Method : \\SVHPLC\EE\chem\slc01.i\L1092702.b\8310AE.m
Meth Date : 07-Oct-2002 17:13 amarty Quant Type: ESTD
Cal Date : 19-SEP-2002 22:22 Cal File: CAL7.D
Als bottle: 4 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	970.000	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		
11.880	11.850	(0.030)	VWD1A	26263	5.37034	5.5	80.00- 120.00	100.00
11.974	11.850	(0.124)	ADC1A	12215			32.87- 49.30	46.51
3 Acenaphthylene						CAS #: 208-96-8		
13.096	13.070	(0.026)	VWD1A	22684	5.93052	6.1		
4 1-Methyl naphthalene						CAS #: 90-12-0		
13.733	13.706	(0.027)	VWD1A	16176			80.00- 120.00	100.00(R)
13.808	13.706	(0.102)	ADC1A	18272	4.28219	4.4	108.61- 162.92	112.96
5 2-Methyl naphthalene						CAS #: 91-57-6		
14.070	14.043	(0.027)	VWD1A	22832	5.45518	5.6	80.00- 120.00	100.00
14.146	14.043	(0.103)	ADC1A	16553			69.11- 103.66	72.50

Data File: \\SVHPLC\EE\chem\slc01.i\L1092702.b\178-5MS.D
Report Date: 07-Oct-2002 17:15

RT	EXP RT	DLT RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/l)	TARGET RANGE	RATIO
6 Acenaphthene						CAS #: 83-32-9		
14.403	14.376	(0.027)	VWD1A	12522			80.00- 120.00	100.00(QR)
14.471	14.376	(0.095)	ADC1A	37367	4.37722	4.5	343.84- 515.76	298.41
7 Fluorene						CAS #: 86-73-7		
14.760	14.740	(0.020)	VWD1A	145338	6.20388	6.4		
8 Phenanthrene						CAS #: 85-01-8		
15.566	15.550	(0.016)	VWD1A	510467			80.00- 120.00	100.00
15.641	15.550	(0.091)	ADC1A	190344	6.31529	6.5	31.82- 47.72	37.29
9 Anthracene						CAS #: 120-12-7		
16.300	16.286	(0.014)	VWD1A	1227094	7.33638	7.6	80.00- 120.00	100.00
16.373	16.286	(0.087)	ADC1A	23996			1.59- 2.39	1.96
10 Fluoranthene						CAS #: 206-44-0		
17.130	17.116	(0.014)	VWD1A	124451	7.16898	7.4		
11 Pyrene						CAS #: 129-00-0		
17.676	17.666	(0.010)	VWD1A	94778	7.17495	7.4	80.00- 120.00	100.00
17.754	17.666	(0.088)	ADC1A	925001			800.01-1200.01	975.97
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.696	18.693	(0.003)	VWD1A	199570	14.9737	15.4	80.00- 120.00	100.00
18.773	18.693	(0.080)	ADC1A	2508875			999.85-1499.77	1257.14
13 Benzo(a)Anthracene						CAS #: 56-55-3		
19.480	19.480	(0.000)	VWD1A	277583	7.36903	7.6	80.00- 120.00	100.00
19.556	19.480	(0.076)	ADC1A	1436415			417.06- 625.59	517.47
14 Chrysene						CAS #: 218-01-9		
19.886	19.886	(0.000)	VWD1A	355736			80.00- 120.00	100.00
19.959	19.886	(0.073)	ADC1A	573197	7.16126	7.4	132.55- 198.82	161.13
15 Benzo(b)Fluoranthene						CAS #: 205-99-2		
21.283	21.286	(-0.003)	VWD1A	302243	7.26533	7.5	80.00- 120.00	100.00(M)
21.359	21.286	(0.073)	ADC1A	44581			14.45- 21.67	14.75
16 Benzo(k)Fluoranthene						CAS #: 207-08-9		
21.926	21.926	(0.000)	VWD1A	273628	7.42395	7.6	80.00- 120.00	100.00
22.003	21.926	(0.077)	ADC1A	135924			43.88- 65.82	49.67
17 Benzo(a)pyrene						CAS #: 50-32-8		
22.526	22.526	(0.000)	VWD1A	274694			80.00- 120.00	100.00
22.599	22.526	(0.073)	ADC1A	333513	6.68209	6.9	105.13- 157.69	121.41

Data File: \\SVHPLC\EE\chem\slc01.i\L1092702.b\178-5MS.D
Report Date: 07-Oct-2002 17:15

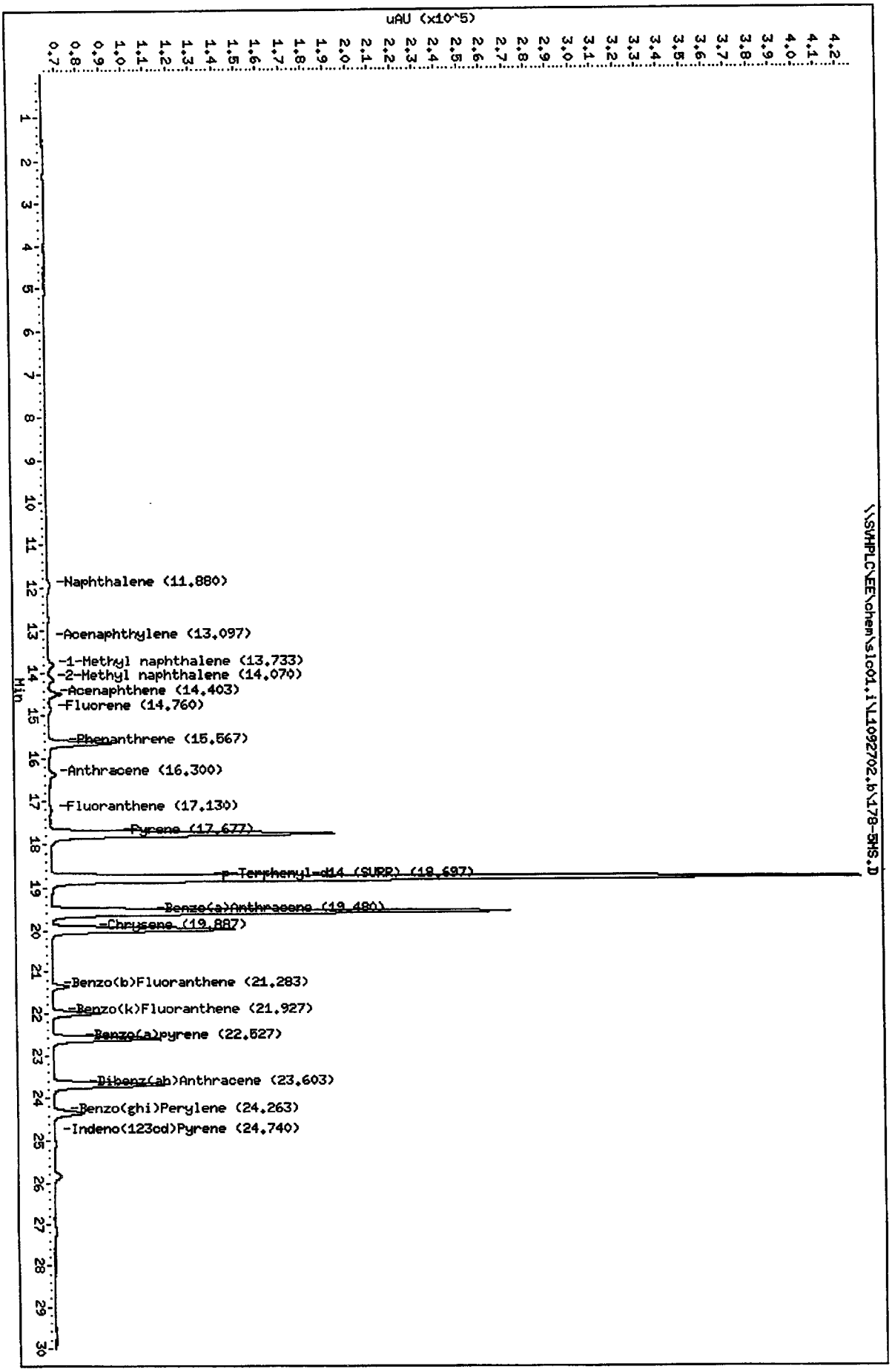
RT	EXP RT	DLT RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/l)	TARGET RANGE	RATIO	
18 Dibenz(ah)Anthracene						CAS #: 53-70-3			
23.603	23.600	(0.003)	VWD1A	62616			80.00- 120.00	100.00	
23.679	23.600	(0.079)	ADC1A	381273	6.83411	7.0	516.25- 774.38	608.91	
19 Benzo(ghi)Perylene						CAS #: 191-24-2			
24.263	24.260	(0.003)	VWD1A	109865	7.13789	7.4	80.00- 120.00	100.00	
24.339	24.260	(0.079)	ADC1A	104242			90.31- 135.47	94.88	
20 Indeno(123cd)Pyrene						CAS #: 193-39-5			
24.740	24.736	(0.004)	VWD1A	342582	7.22321	7.4			(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\slc01.i\L1092702.b\178-5HS.D
Date : 27-SEP-2002 14:03
Client ID: 062MW20Q302HS
Sample Info: 2209178065
Purge Volume: 970.0
Column phase: Vydac 201TP54

Instrument: slc01.i
Operator: HARTY
Column diameter: 4.60



Data File: \\SVHPLC\EE\chem\slc01.i\L1092702.b\178-6SD.D
Report Date: 07-Oct-2002 17:16

PEL Laboratories, Inc.

Data file : \\SVHPLC\EE\chem\slc01.i\L1092702.b\178-6SD.D
Lab Smp Id: 220917806 Client Smp ID: 062MW20Q302MSD
Inj Date : 27-SEP-2002 14:38
Operator : MARTY Inst ID: slc01.i
Smp Info : 220917806
Misc Info :
Comment :
Method : \\SVHPLC\EE\chem\slc01.i\L1092702.b\8310AE.m
Meth Date : 07-Oct-2002 17:13 amarty Quant Type: ESTD
Cal Date : 19-SEP-2002 22:22 Cal File: CAL7.D
Als bottle: 5 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	970.000	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		
11.866	11.850	(0.016)	VWD1A	29829	6.09953	6.3	80.00- 120.00	100.00
11.950	11.850	(0.100)	ADC1A	13464			32.87- 49.30	45.14
3 Acenaphthylene						CAS #: 208-96-8		
13.090	13.070	(0.020)	VWD1A	26158	6.83877	7.0		
4 1-Methyl naphthalene						CAS #: 90-12-0		
13.723	13.706	(0.017)	VWD1A	18378			80.00- 120.00	100.00
13.797	13.706	(0.091)	ADC1A	20938	4.90698	5.0	108.61- 162.92	113.93
5 2-Methyl naphthalene						CAS #: 91-57-6		
14.060	14.043	(0.017)	VWD1A	25946	6.19920	6.4	80.00- 120.00	100.00
14.137	14.043	(0.094)	ADC1A	19591			69.11- 103.66	75.51

Data File: \\SVHPLC\EE\chem\slc01.i\L1092702.b\178-6SD.D
Report Date: 07-Oct-2002 17:16

RT	EXP RT	DLT RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/l)	TARGET RANGE	RATIO
6 Acenaphthene						CAS #: 83-32-9		
14.393	14.376	(0.017)	VWD1A	13992			80.00- 120.00	100.00(Q)
14.467	14.376	(0.091)	ADC1A	44738	5.24067	5.4	343.84- 515.76	319.74
7 Fluorene						CAS #: 86-73-7		
14.753	14.740	(0.013)	VWD1A	166005	7.08607	7.3		
8 Phenanthrene						CAS #: 85-01-8		
15.560	15.550	(0.010)	VWD1A	571053			80.00- 120.00	100.00
15.633	15.550	(0.083)	ADC1A	214650	7.12172	7.3	31.82- 47.72	37.59
9 Anthracene						CAS #: 120-12-7		
16.296	16.286	(0.010)	VWD1A	1366911	8.17230	8.4	80.00- 120.00	100.00
16.373	16.286	(0.087)	ADC1A	27037			1.59- 2.39	1.98
10 Fluoranthene						CAS #: 206-44-0		
17.123	17.116	(0.007)	VWD1A	137123	7.89894	8.1		
11 Pyrene						CAS #: 129-00-0		
17.673	17.666	(0.007)	VWD1A	104384	7.90215	8.1	80.00- 120.00	100.00
17.750	17.666	(0.084)	ADC1A	1015649			800.01-1200.01	972.99
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.696	18.693	(0.003)	VWD1A	217411	16.3123	16.8	80.00- 120.00	100.00
18.772	18.693	(0.079)	ADC1A	2747638			999.85-1499.77	1263.80
13 Benzo(a)Anthracene						CAS #: 56-55-3		
19.476	19.480	(-0.004)	VWD1A	303015	8.04417	8.3	80.00- 120.00	100.00
19.553	19.480	(0.073)	ADC1A	1561384			417.06- 625.59	515.28
14 Chrysene						CAS #: 218-01-9		
19.883	19.886	(-0.003)	VWD1A	388451			80.00- 120.00	100.00
19.960	19.886	(0.074)	ADC1A	628681	7.85445	8.1	132.55- 198.82	161.84
15 Benzo(b)Fluoranthene						CAS #: 205-99-2		
21.280	21.286	(-0.006)	VWD1A	327985	7.88411	8.1	80.00- 120.00	100.00
21.357	21.286	(0.071)	ADC1A	50446			14.45- 21.67	15.38
16 Benzo(k)Fluoranthene						CAS #: 207-08-9		
21.920	21.926	(-0.006)	VWD1A	295715	8.02320	8.3	80.00- 120.00	100.00
21.995	21.926	(0.069)	ADC1A	149557			43.88- 65.82	50.57
17 Benzo(a)pyrene						CAS #: 50-32-8		
22.520	22.526	(-0.006)	VWD1A	298091			80.00- 120.00	100.00
22.593	22.526	(0.067)	ADC1A	364104	7.29500	7.5	105.13- 157.69	122.15

Data File: \\SVHPLC\EE\chem\slc01.i\L1092702.b\178-6SD.D
Report Date: 07-Oct-2002 17:16

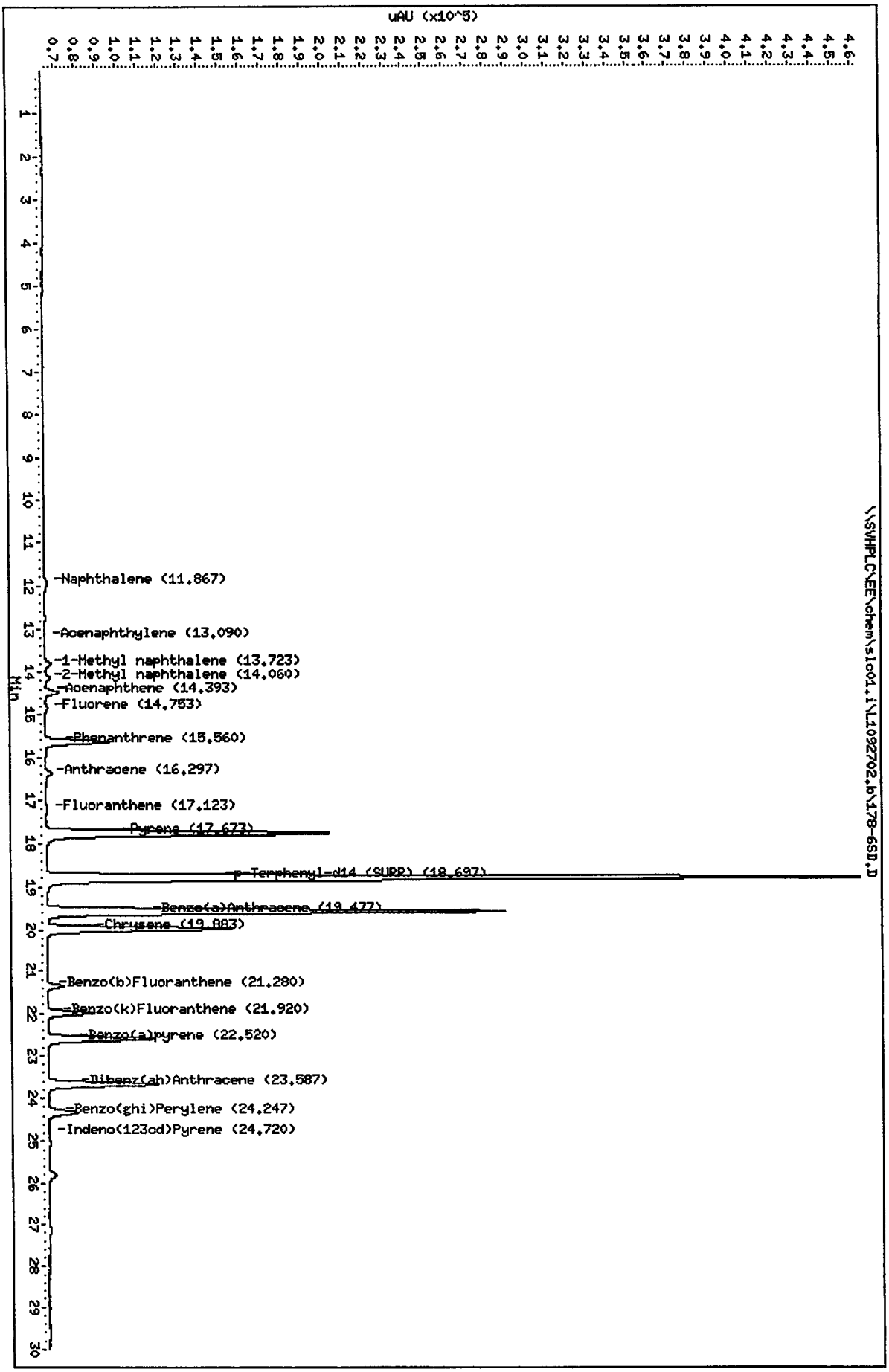
RT	EXP RT	DLT RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/l)	TARGET RANGE	RATIO
18 Dibenz(ah)Anthracene						CAS #: 53-70-3		
23.586	23.600	(-0.014)	VWD1A	65434			80.00- 120.00	100.00
23.667	23.600	(0.067)	ADC1A	399055	7.15285	7.4	516.25- 774.38	609.86
19 Benzo(ghi)Perylene						CAS #: 191-24-2		
24.246	24.260	(-0.014)	VWD1A	117142	7.61067	7.8	80.00- 120.00	100.00
24.320	24.260	(0.060)	ADC1A	113209			90.31- 135.47	96.64
20 Indeno(123cd)Pyrene						CAS #: 193-39-5		
24.720	24.736	(-0.016)	VWD1A	366015	7.71728	8.0		

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\SVHPLC\EE\chem\slc01.i\L1092702.b\178-6SD.D
Date : 27-SEP-2002 14:38
Client ID: 062MW20Q3O2HSD
Sample Info: 2209178O6
Purge Volume: 970.0
Column phase: Vydac 201TP54

Instrument: slc01.i
Operator: HARTY
Column diameter: 4.60



Data File: \\SVHPLC\EE\chem\slc01.i\L1092702.b\178-7.D
Report Date: 07-Oct-2002 17:16

PEL Laboratories, Inc.

Data file : \\SVHPLC\EE\chem\slc01.i\L1092702.b\178-7.D
Lab Smp Id: 220917807 Client Smp ID: 062MW22Q302
Inj Date : 27-SEP-2002 17:31
Operator : MARTY Inst ID: slc01.i
Smp Info : 220917807
Misc Info :
Comment :
Method : \\SVHPLC\EE\chem\slc01.i\L1092702.b\8310AE.m
Meth Date : 07-Oct-2002 17:13 amarty Quant Type: ESTD
Cal Date : 19-SEP-2002 22:22 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	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		
11.913	11.850	(0.063)	VWD1A	12465	2.54888	2.7	80.00- 120.00	100.00(Q)
11.995	11.850	(0.145)	ADC1A	6389			32.87- 49.30	51.26
4 1-Methyl naphthalene						CAS #: 90-12-0		
13.746	13.706	(0.040)	VWD1A	18896			80.00- 120.00	100.00
13.825	13.706	(0.119)	ADC1A	23970	5.61756	5.9	108.61- 162.92	126.85
5 2-Methyl naphthalene						CAS #: 91-57-6		
14.083	14.043	(0.040)	VWD1A	33657	8.04157	8.5	80.00- 120.00	100.00
14.160	14.043	(0.117)	ADC1A	24672			69.11- 103.66	73.30
7 Fluorene						CAS #: 86-73-7		
14.770	14.740	(0.030)	VWD1A	5180	0.22111	0.23		

Data File: \\SVHPLC\EE\chem\slc01.i\L1092702.b\178-7.D
Report Date: 07-Oct-2002 17:16

RT	EXP RT	DLT RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/l)	TARGET RANGE	RATIO
8 Phenanthrene						CAS #: 85-01-8		
15.570	15.550	(0.020)	VWD1A	21740			80.00- 120.00	100.00(Q)
15.652	15.550	(0.102)	ADC1A	14821	0.49174	0.52	31.82- 47.72	68.17
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.690	18.693	(-0.003)	VWD1A	229005	17.1822	18.1	80.00- 120.00	100.00
18.763	18.693	(0.070)	ADC1A	2905643			999.85-1499.77	1268.81

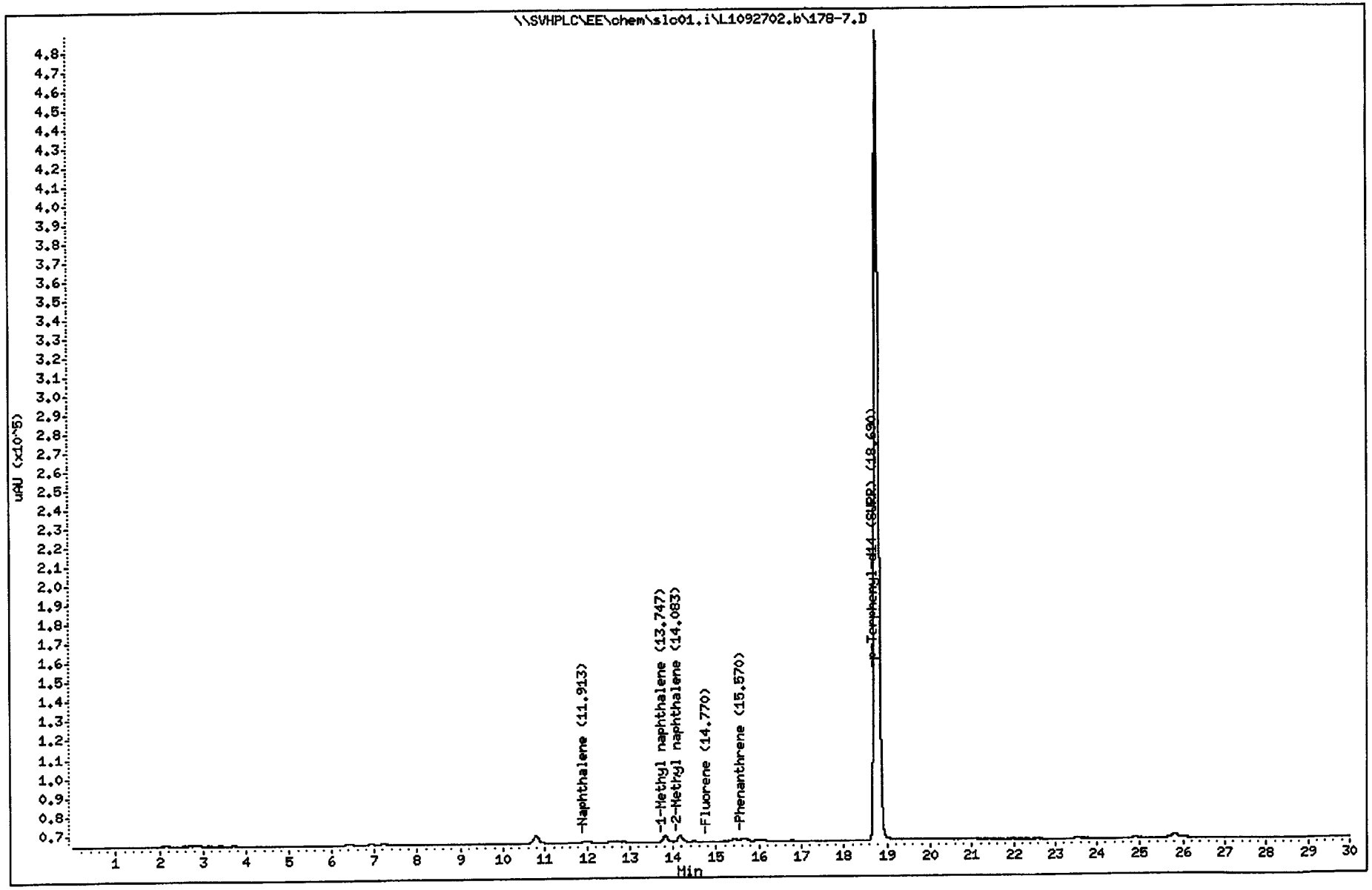
QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\SVHPLC\EE\chem\slc01.i\L1092702.b\178-7.D
Date : 27-SEP-2002 17:31
Client ID: 062MW22Q302
Sample Info: 220917807
Purge Volume: 950.0
Column phase: Vydac 201TP54

Instrument: slc01.i

Operator: MARTY
Column diameter: 4.60



Data File: \\SVHPLC\EE\chem\slc01.i\L1092702.b\178-8.D
Report Date: 07-Oct-2002 17:16

PEL Laboratories, Inc.

Data file : \\SVHPLC\EE\chem\slc01.i\L1092702.b\178-8.D
Lab Smp Id: 220917808 Client Smp ID: 062VEW2Q302
Inj Date : 27-SEP-2002 18:40
Operator : MARTY Inst ID: slc01.i
Smp Info : 220917808
Misc Info :
Comment :
Method : \\SVHPLC\EE\chem\slc01.i\L1092702.b\8310AE.m
Meth Date : 07-Oct-2002 17:13 amarty Quant Type: ESTD
Cal Date : 19-SEP-2002 22:22 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
3 Acenaphthylene						CAS #: 208-96-8		
13.053	13.070	(-0.017)	VWD1A	2182	0.57067	0.59		(M)
5 2-Methyl naphthalene						CAS #: 91-57-6		
14.030	14.043	(-0.013)	VWD1A	958	0.22901	0.24	80.00- 120.00	100.00(QM)
14.144	14.043	(0.101)	ADC1A	1843			69.11- 103.66	192.28
8 Phenanthrene						CAS #: 85-01-8		
15.560	15.550	(0.010)	VWD1A	10965			80.00- 120.00	100.00(Q)
15.636	15.550	(0.086)	ADC1A	8831	0.29300	0.30	31.82- 47.72	80.54
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.690	18.693	(-0.003)	VWD1A	220187	16.5206	17.2	80.00- 120.00	100.00
18.766	18.693	(0.073)	ADC1A	2792509			999.85-1499.77	1268.24

Data File: \\SVHPLC\EE\chem\slc01.i\L1092702.b\178-8.D
Report Date: 07-Oct-2002 17:16

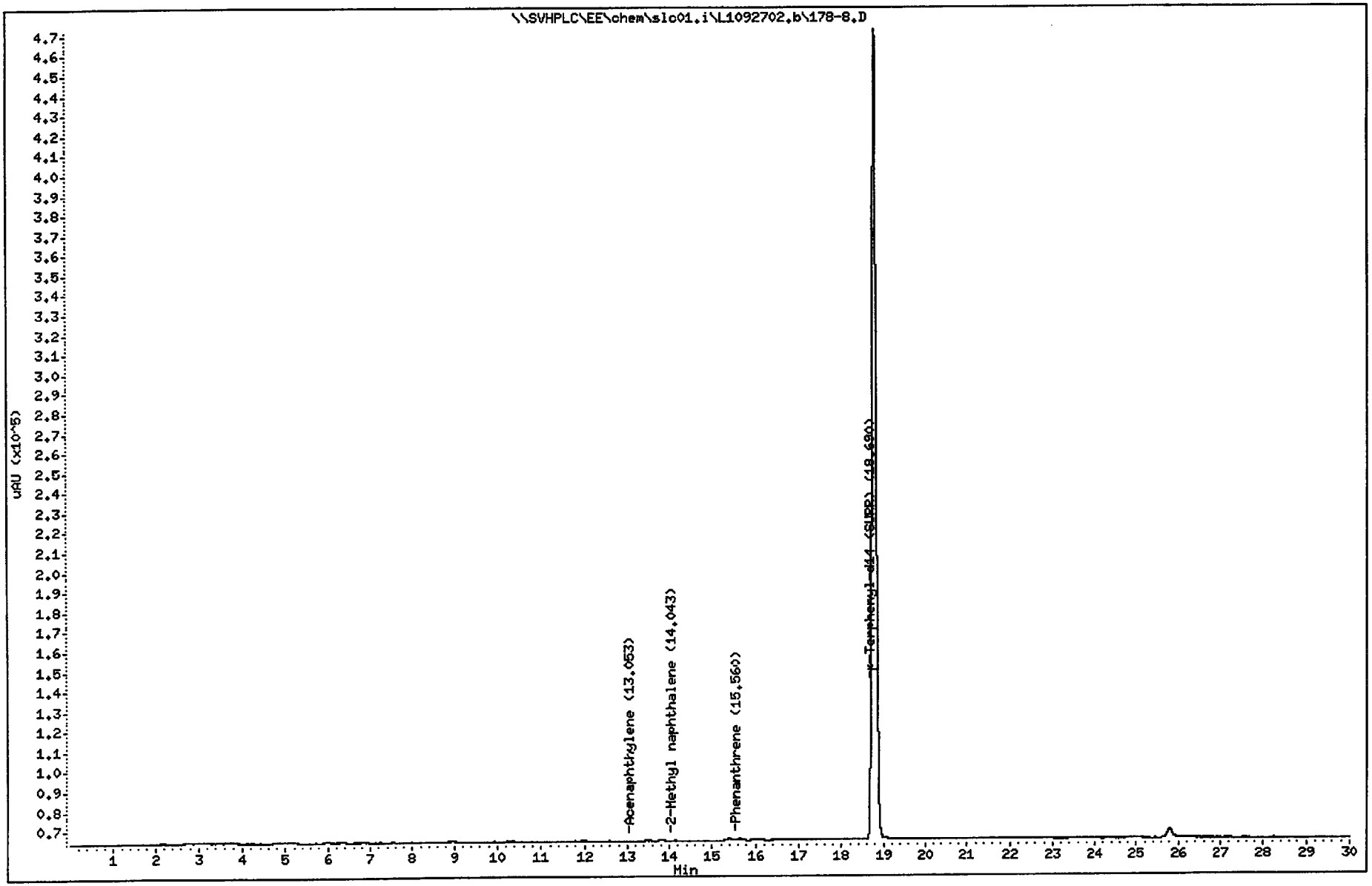
QC Flag Legend

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

Data File: \\SVHPLC\EE\chem\slc01.i\L1092702.b\178-8.D
Date : 27-SEP-2002 18:40
Client ID: 062VEW2Q302
Sample Info: 220917808
Purge Volume: 960.0
Column phase: Vydac 201TP54

Instrument: slc01.i

Operator: MARTY
Column diameter: 4.60



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Report Date: 07-Oct-2002 17:16

PEL Laboratories, Inc.

Data file : \\SVHPLC\EE\chem\slc01.i\L1092702.b\178-9.D
Lab Smp Id: 220917809 Client Smp ID: 062VEW3Q302
Inj Date : 27-SEP-2002 19:15
Operator : MARTY Inst ID: slc01.i
Smp Info : 220917809
Misc Info :
Comment :
Method : \\SVHPLC\EE\chem\slc01.i\L1092702.b\8310AE.m
Meth Date : 07-Oct-2002 17:13 amarty Quant Type: ESTD
Cal Date : 19-SEP-2002 22:22 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

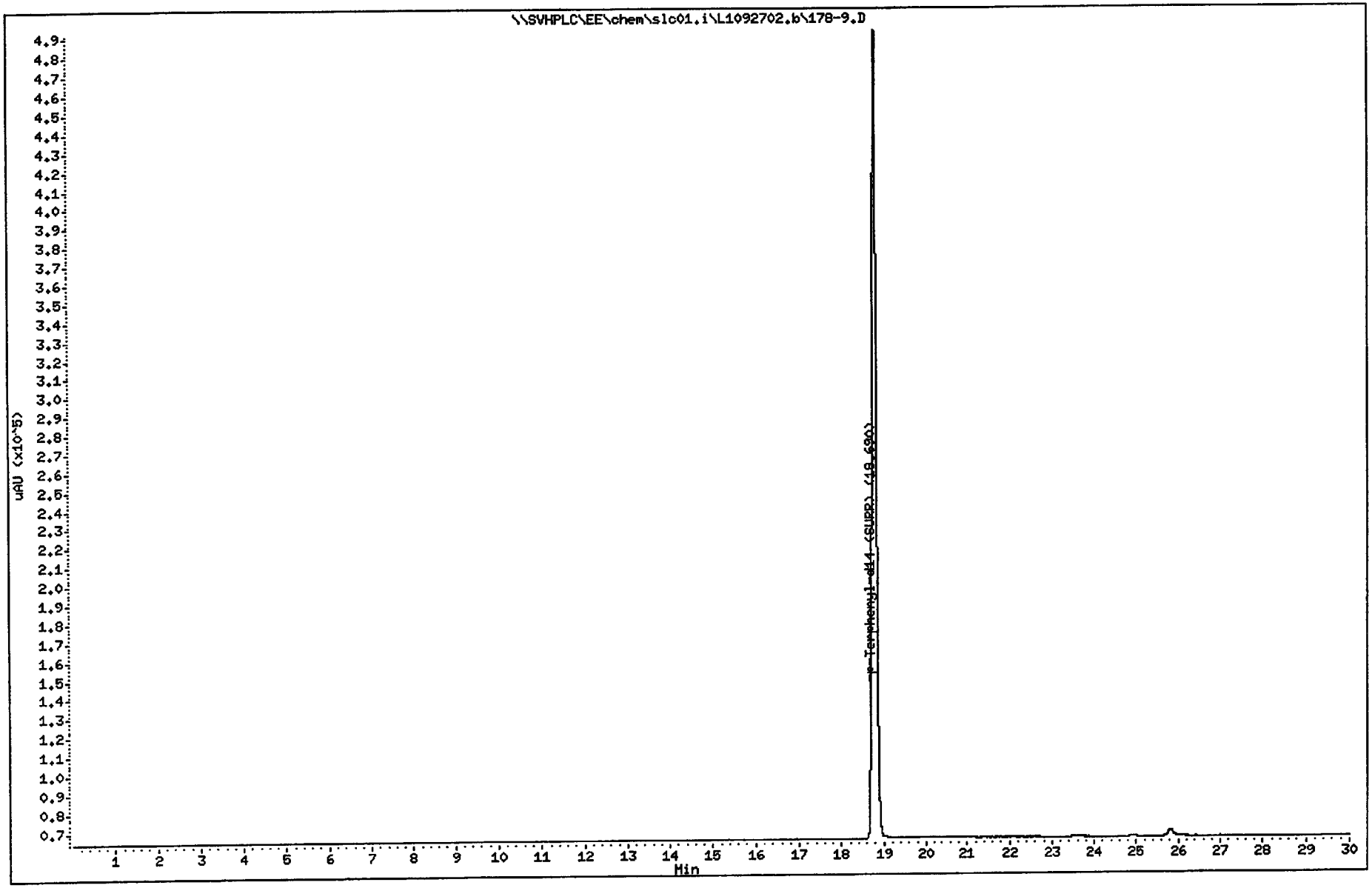
Name	Value	Description
DF	1.000	Dilution Factor
Vo	960.000	Volume Extracted
Vt	1.000	Final Volume

RT	EXP RT	DLT RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/l)	TARGET RANGE	RATIO
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.690	18.693	(-0.003)	VWD1A	231454	17.3659	18.1	80.00- 120.00	100.00
18.766	18.693	(0.073)	ADC1A	2959615			999.85-1499.77	1278.71

Data File: \\SVHPLC\EE\chem\slc01.i\L1092702.b\178-9.D
Date : 27-SEP-2002 19:15
Client ID: 062VEW3Q302
Sample Info: 220917809
Purge Volume: 960.0
Column phase: Vydac 201TP54

Instrument: slc01.i

Operator: HARTY
Column diameter: 4.60



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Report Date: 07-Oct-2002 17:14

PEL Laboratories, Inc.

Data file : \\SVHPLC\EE\chem\slc01.i\L1092702.b\178-10.D
Lab Smp Id: 220917810 Client Smp ID: 062VEW4Q302
Inj Date : 27-SEP-2002 19:50
Operator : MARTY Inst ID: slc01.i
Smp Info : 220917810
Misc Info :
Comment :
Method : \\SVHPLC\EE\chem\slc01.i\L1092702.b\8310AE.m
Meth Date : 07-Oct-2002 17:13 amarty Quant Type: ESTD
Cal Date : 19-SEP-2002 22:22 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

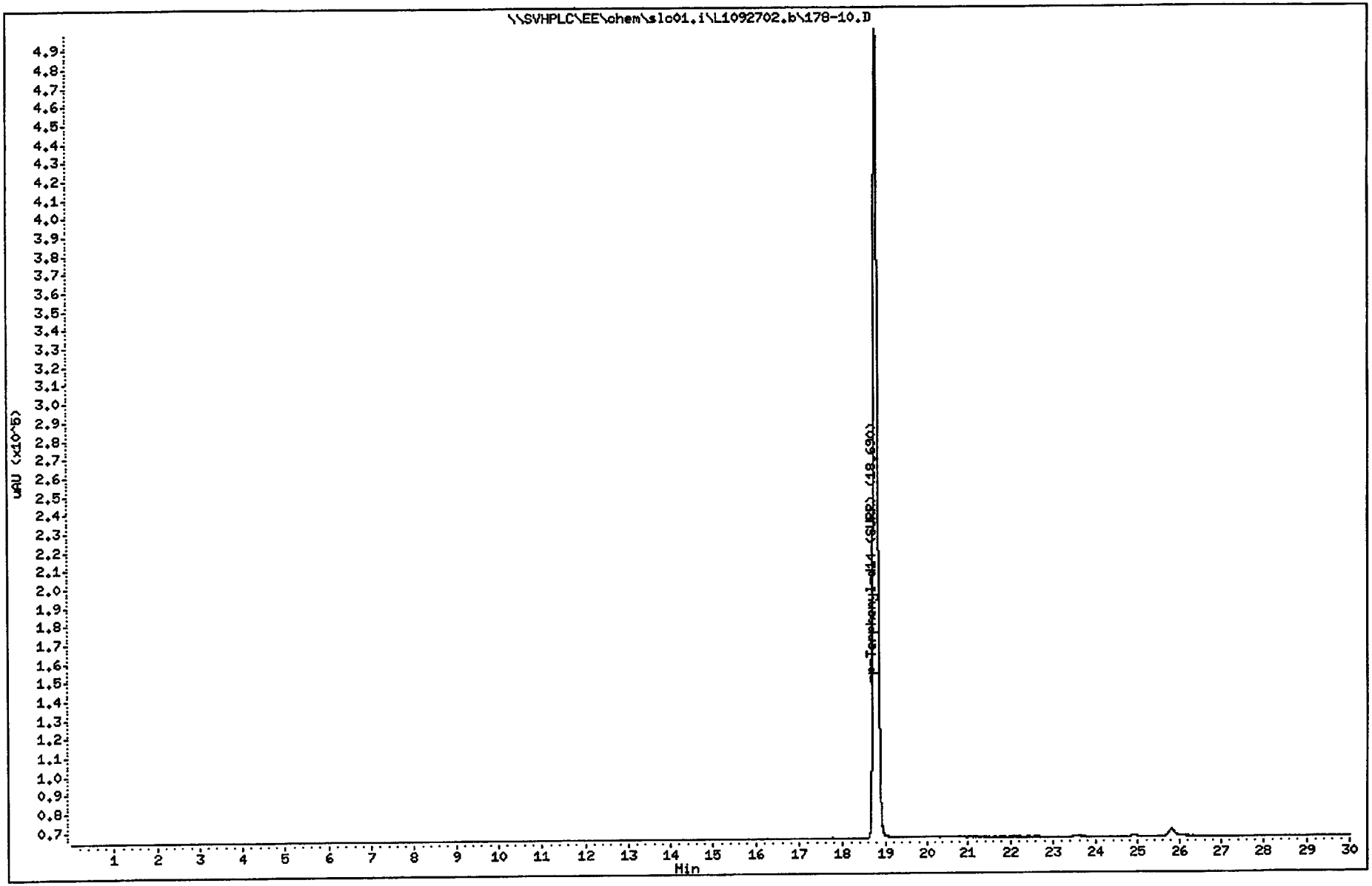
Name	Value	Description
DF	1.000	Dilution Factor
Vo	940.000	Volume Extracted
Vt	1.000	Final Volume

RT	EXP RT	DLT RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/l)	TARGET RANGE	RATIO
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.690	18.693	(-0.003)	VWD1A	234408	17.5876	18.7	80.00- 120.00	100.00
18.766	18.693	(0.073)	ADC1A	2987756			999.85-1499.77	1274.60

Data File: \\SVHPLC\EE\chem\slc01.i\L1092702.b\178-10.D
Date : 27-SEP-2002 19:50
Client ID: 062VEW4Q302
Sample Info: 220917810
Purge Volume: 940.0
Column phase: Vydac 201TP54

Instrument: slc01.i

Operator: MARTY
Column diameter: 4.60



Data File: \\SVHPLC\EE\chem\slc01.i\L1092702.b\178-11.D
Report Date: 07-Oct-2002 17:14

PEL Laboratories, Inc.

Data file : \\SVHPLC\EE\chem\slc01.i\L1092702.b\178-11.D
Lab Smp Id: 220917811 Client Smp ID: 062VEW5Q302
Inj Date : 27-SEP-2002 20:24
Operator : MARTY Inst ID: slc01.i
Smp Info : 220917811
Misc Info :
Comment :
Method : \\SVHPLC\EE\chem\slc01.i\L1092702.b\8310AE.m
Meth Date : 07-Oct-2002 17:13 amarty Quant Type: ESTD
Cal Date : 19-SEP-2002 22:22 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

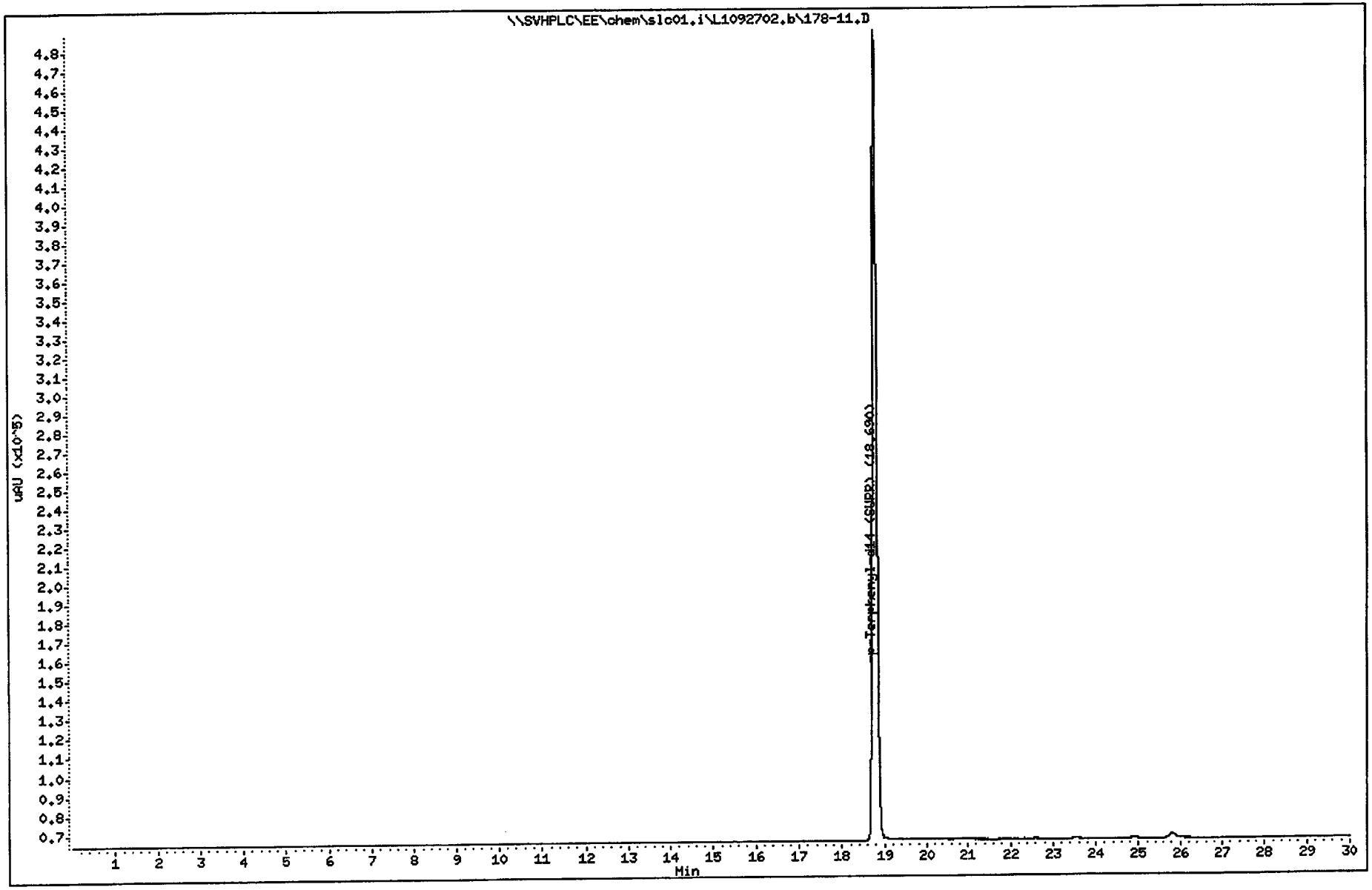
Name	Value	Description
DF	1.000	Dilution Factor
Vo	950.000	Volume Extracted
Vt	1.000	Final Volume

RT	EXP RT	DLT RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/l)	TARGET RANGE	RATIO
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.690	18.693	(-0.003)	VWD1A	230040	17.2598	18.2	80.00- 120.00	100.00
18.762	18.693	(0.069)	ADC1A	2933643			999.85-1499.77	1275.28

Data File: \\SVHPLC\EE\chem\slc01.i\L1092702.b\178-11.D
Date : 27-SEP-2002 20:24
Client ID: 062VEW5Q302
Sample Info: 220917811
Purge Volume: 950.0
Column phase: Vydac 201TP54

Instrument: slc01.i

Operator: MARTY
Column diameter: 4.60



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Report Date: 07-Oct-2002 17:14

PEL Laboratories, Inc.

Data file : \\SVHPLC\EE\chem\slc01.i\L1092702.b\178-12.D
Lab Smp Id: 220917812 Client Smp ID: 062VEW6Q302
Inj Date : 27-SEP-2002 20:59
Operator : MARTY Inst ID: slc01.i
Smp Info : 220917812
Misc Info :
Comment :
Method : \\SVHPLC\EE\chem\slc01.i\L1092702.b\8310AE.m
Meth Date : 07-Oct-2002 17:13 amarty Quant Type: ESTD
Cal Date : 19-SEP-2002 22:22 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

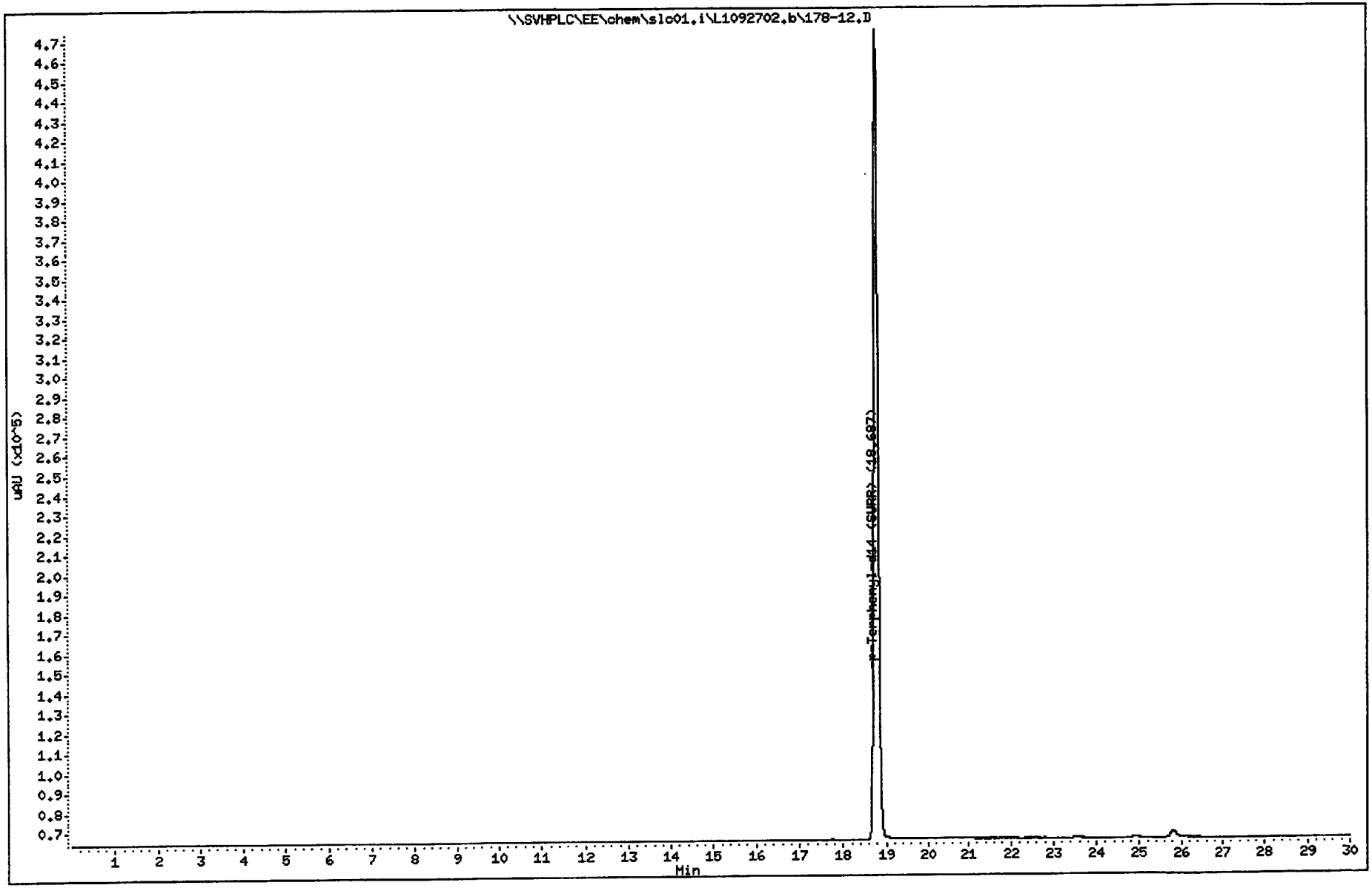
Name	Value	Description
DF	1.000	Dilution Factor
Vo	940.000	Volume Extracted
Vt	1.000	Final Volume

RT	EXP RT	DLT RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/l)	TARGET RANGE	RATIO
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.686	18.693	(-0.007)	VWD1A	220735	16.5617	17.6	80.00- 120.00	100.00
18.760	18.693	(0.067)	ADC1A	2815248			999.85-1499.77	1275.40

Data File: \\SVHPLC\EE\chem\slc01.i\L1092702.b\178-12.D
Date : 27-SEP-2002 20:59
Client ID: 062VEW6Q302
Sample Info: 220917812
Purge Volume: 940.0
Column phase: Vydac 201TP54

Instrument: slc01.i

Operator: HARTY
Column diameter: 4.60



Data File: \\SVHPLC\EE\chem\slc01.i\L1092702.b\178-13.D
Report Date: 07-Oct-2002 17:15

PEL Laboratories, Inc.

Data file : \\SVHPLC\EE\chem\slc01.i\L1092702.b\178-13.D
Lab Smp Id: 220917813 Client Smp ID: 062VEW7Q302
Inj Date : 27-SEP-2002 21:33
Operator : MARTY Inst ID: slc01.i
Smp Info : 220917813
Misc Info :
Comment :
Method : \\SVHPLC\EE\chem\slc01.i\L1092702.b\8310AE.m
Meth Date : 07-Oct-2002 17:13 amarty Quant Type: ESTD
Cal Date : 19-SEP-2002 22:22 Cal File: CAL7.D
Als bottle: 16
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

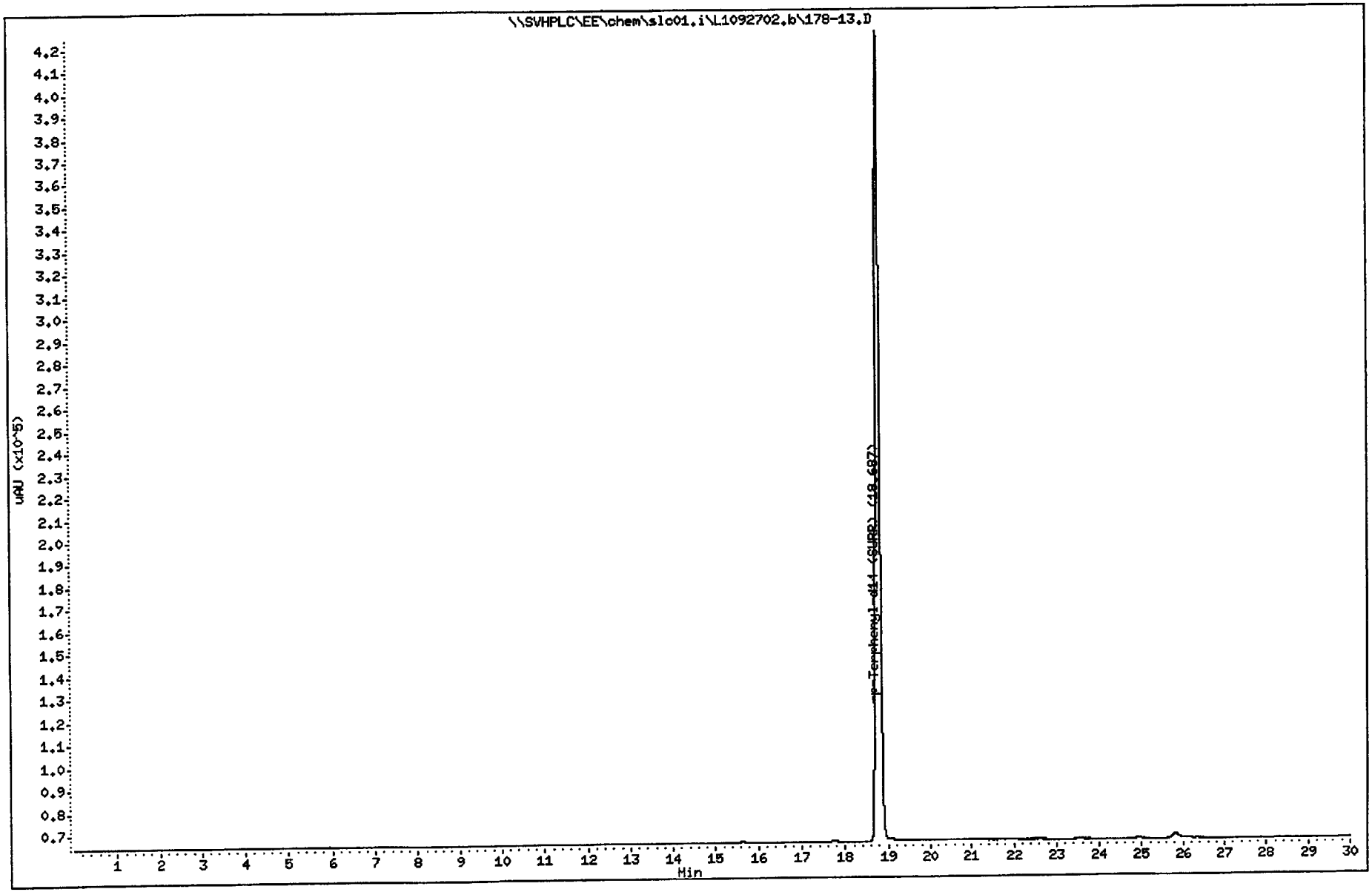
Name	Value	Description
DF	1.000	Dilution Factor
Vo	940.000	Volume Extracted
Vt	1.000	Final Volume

RT	EXP RT	DLT RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/l)	TARGET RANGE	RATIO
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.686	18.693	(-0.007)	VWD1A	197096	14.7880	15.7	80.00- 120.00	100.00
18.766	18.693	(0.073)	ADC1A	2488982			999.85-1499.77	1262.83

Data File: \\SVHPLC\EE\chem\slc01.i\L1092702.b\178-13.D
Date : 27-SEP-2002 21:33
Client ID: 062VEW7Q302
Sample Info: 220917813
Purge Volume: 940.0
Column phase: Vydac 201TP54

Instrument: slc01.i

Operator: MARTY
Column diameter: 4.60



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Report Date: 07-Oct-2002 17:15

PEL Laboratories, Inc.

Data file : \\SVHPLC\EE\chem\slc01.i\L1092702.b\178-14.D
Lab Smp Id: 220917814 Client Smp ID: 062VEW8Q302
Inj Date : 27-SEP-2002 22:08
Operator : MARTY Inst ID: slc01.i
Smp Info : 220917814
Misc Info :
Comment :
Method : \\SVHPLC\EE\chem\slc01.i\L1092702.b\8310AE.m
Meth Date : 07-Oct-2002 17:13 amarty Quant Type: ESTD
Cal Date : 19-SEP-2002 22:22 Cal File: CAL7.D
Als bottle: 17
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

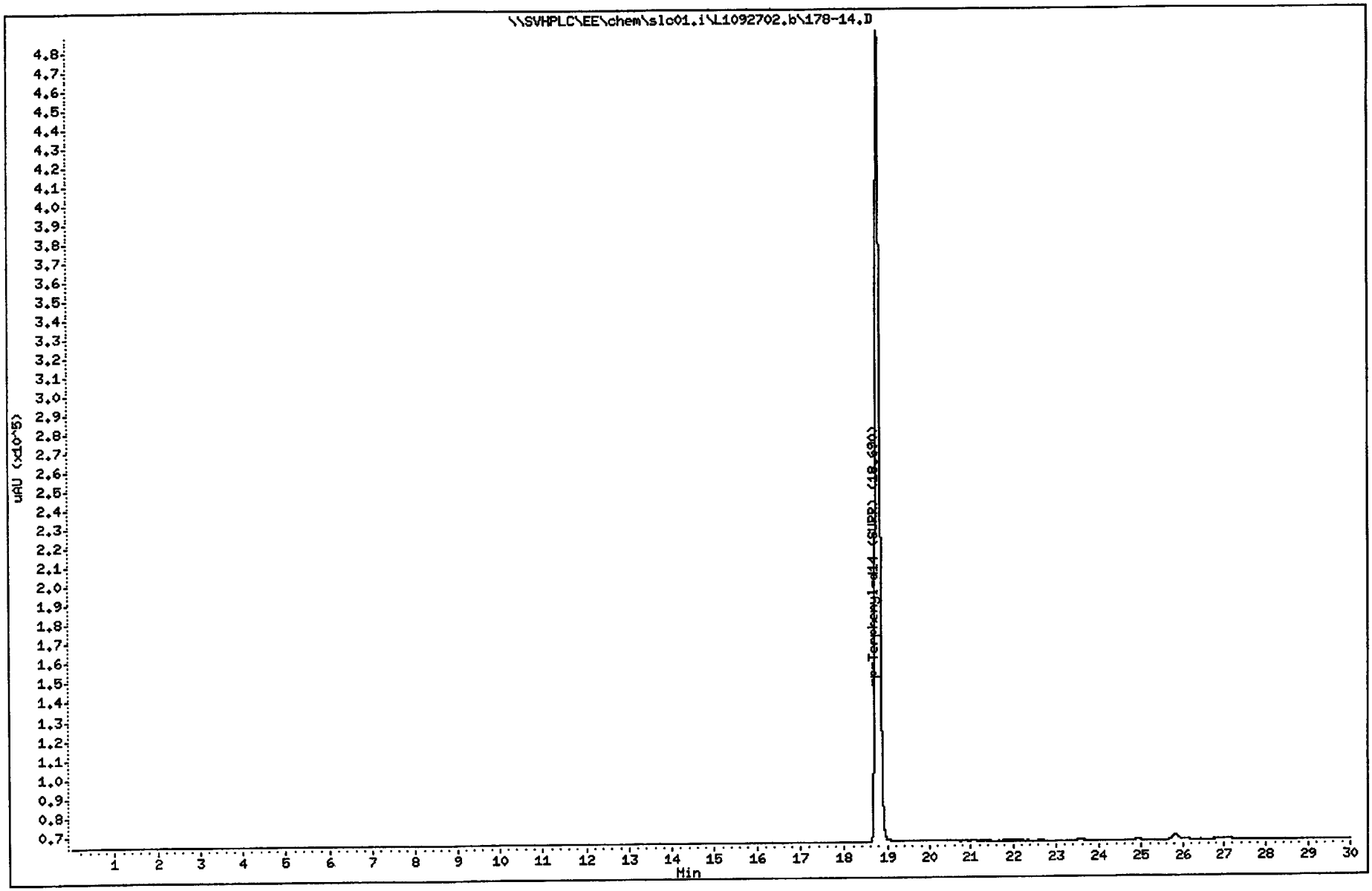
Name	Value	Description
DF	1.000	Dilution Factor
Vo	940.000	Volume Extracted
Vt	1.000	Final Volume

RT	EXP RT	DLT RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/l)	TARGET RANGE	RATIO
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.690	18.693	(-0.003)	VWD1A	229149	17.1930	18.3	80.00- 120.00	100.00
18.767	18.693	(0.074)	ADC1A	2919362			999.85-1499.77	1274.00

Data File: \\SVHPLC\EE\chem\slc01.i\L1092702.b\178-14.D
Date : 27-SEP-2002 22:08
Client ID: 062VEW8Q302
Sample Info: 220917814
Purge Volume: 940.0
Column phase: Vydac 201TP54

Instrument: slc01.i

Operator: MARTY
Column diameter: 4.60



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Report Date: 07-Oct-2002 17:15

PEL Laboratories, Inc.

Data file : \\SVHPLC\EE\chem\slc01.i\L1092702.b\178-15.D
Lab Smp Id: 220917815 Client Smp ID: 062DUPQ302
Inj Date : 27-SEP-2002 22:43
Operator : MARTY Inst ID: slc01.i
Smp Info : 220917815
Misc Info :
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Method : \\SVHPLC\EE\chem\slc01.i\L1092702.b\8310AE.m
Meth Date : 07-Oct-2002 17:13 amarty Quant Type: ESTD
Cal Date : 19-SEP-2002 22:22 Cal File: CAL7.D
Als bottle: 18
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

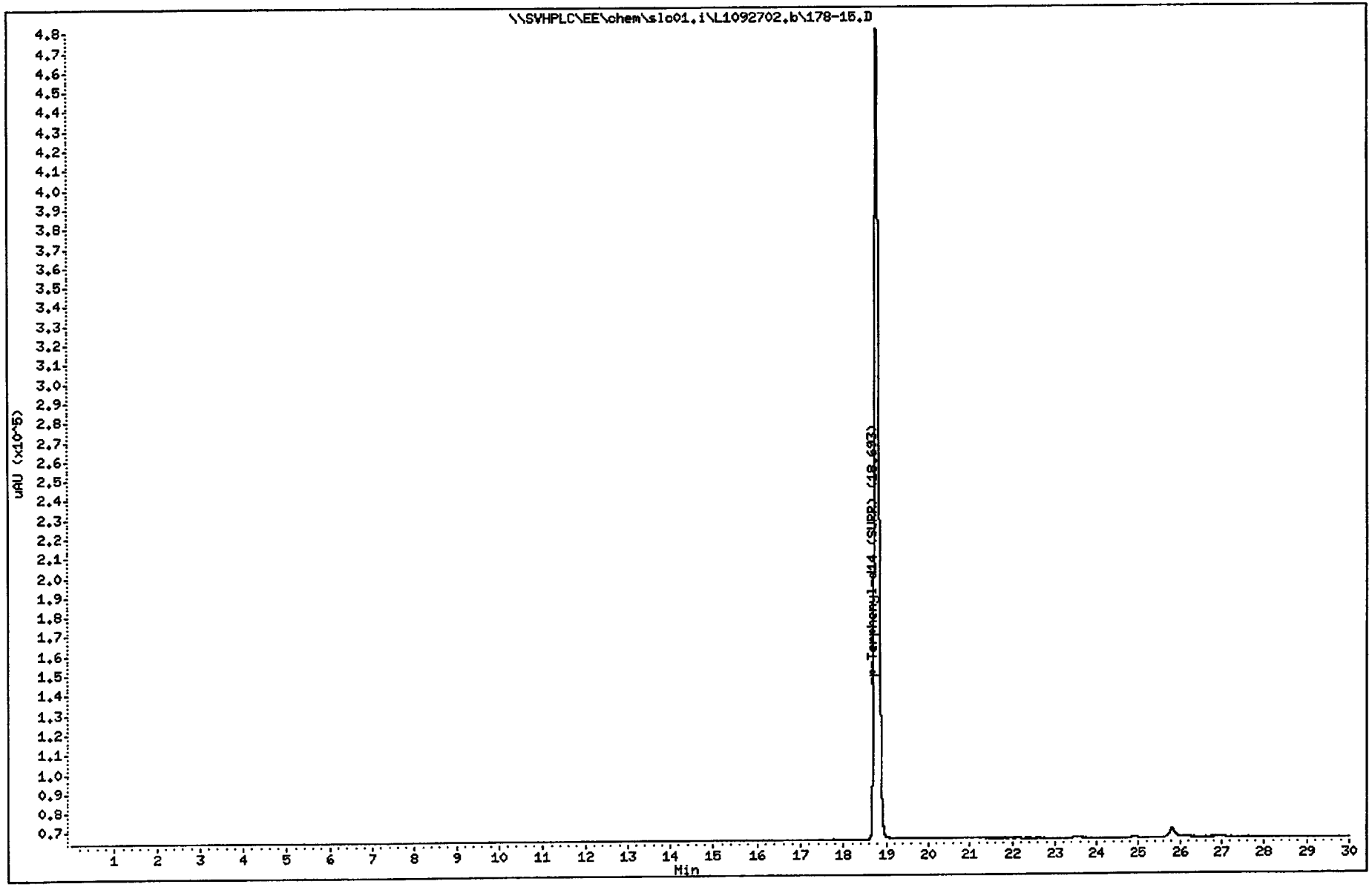
Name	Value	Description
DF	1.000	Dilution Factor
Vo	960.000	Volume Extracted
Vt	1.000	Final Volume

RT	EXP RT	DLT RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/l)	TARGET RANGE	RATIO
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.693	18.693	(0.000)	VWD1A	223750	16.7879	17.5	80.00- 120.00	100.00
18.768	18.693	(0.075)	ADC1A	2862932			999.85-1499.77	1279.52

Data File: \\SVHPLC\EE\chem\slc01.i\L1092702.b\178-15.D
Date : 27-SEP-2002 22:43
Client ID: 062DUPQ302
Sample Info: 220917815
Purge Volume: 960.0
Column phase: Vydac 201TP54

Instrument: slc01.i

Operator: MARTY
Column diameter: 4.60



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Report Date: 07-Oct-2002 17:15

PEL Laboratories, Inc.

Data file : \\SVHPLC\EE\chem\slc01.i\L1092702.b\178-16.D
Lab Smp Id: 220917816 Client Smp ID: 062EQBQ302
Inj Date : 27-SEP-2002 23:17
Operator : MARTY Inst ID: slc01.i
Smp Info : 220917816
Misc Info :
Comment :
Method : \\SVHPLC\EE\chem\slc01.i\L1092702.b\8310AE.m
Meth Date : 07-Oct-2002 17:13 amarty Quant Type: ESTD
Cal Date : 19-SEP-2002 22:22 Cal File: CAL7.D
Als bottle: 19
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

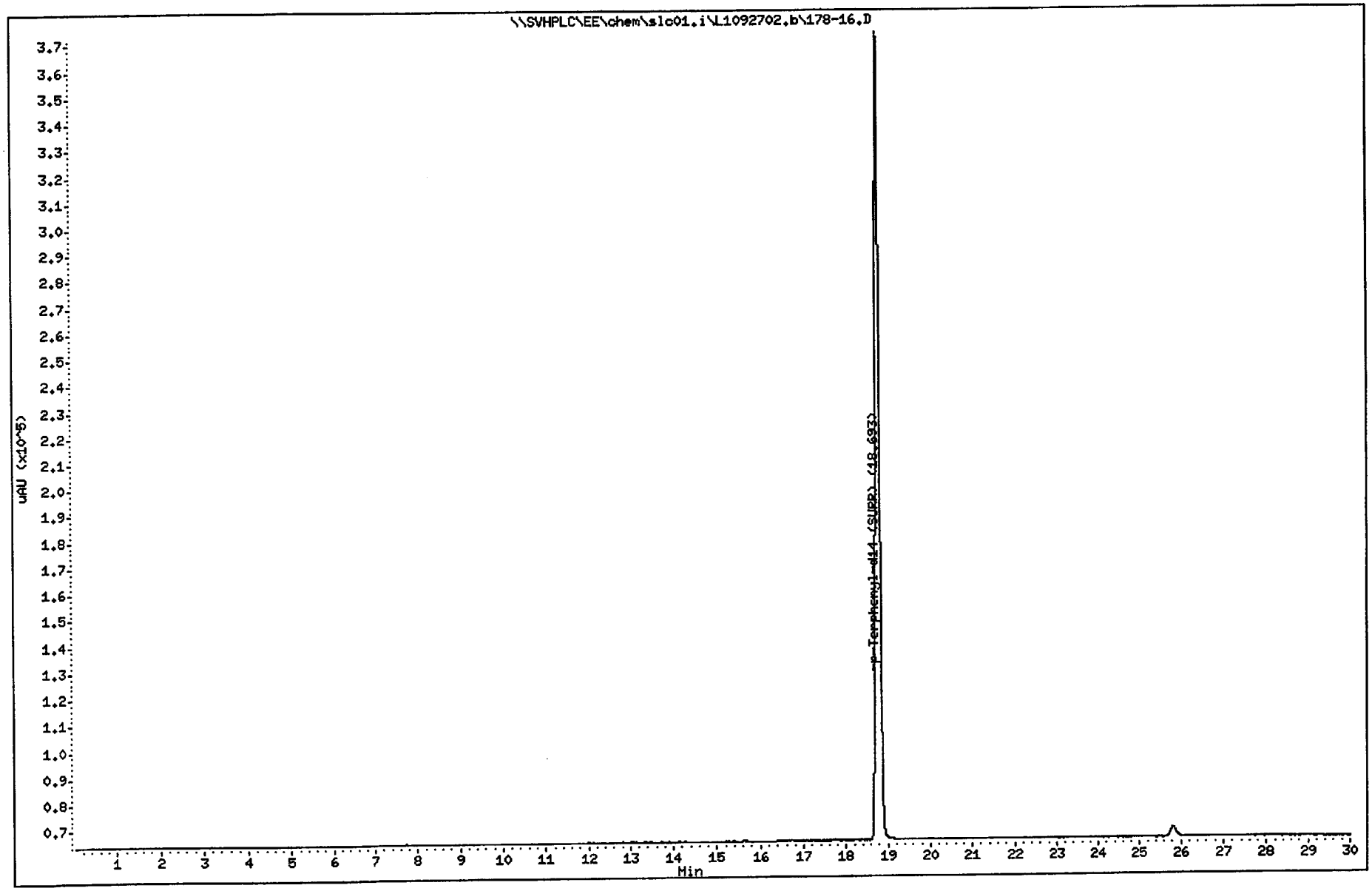
Name	Value	Description
DF	1.000	Dilution Factor
Vo	940.000	Volume Extracted
Vt	1.000	Final Volume

RT	EXP RT	DLT RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/l)	TARGET RANGE	RATIO
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.693	18.693	(0.000)	VWD1A	165146	12.3909	13.2	80.00- 120.00	100.00
18.767	18.693	(0.074)	ADC1A	2110586			999.85-1499.77	1278.01

Data File: \\SVHPLC\EE\chem\slc01.i\L1092702.b\178-16.D
Date : 27-SEP-2002 23:17
Client ID: 062EQBQ302
Sample Info: 220917816
Purge Volume: 940.0
Column phase: Vydac 201TP54

Instrument: slc01.i

Operator: MARTY
Column diameter: 4.60



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
C. Christelle Newsome

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.

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 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

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
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
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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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
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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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
L0209337-01	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
(CTO-062)

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
(CTO-062)

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

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
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 A
Validated Reports of Analysis

Chain of Custody Forms

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

C209256

CHAIN-OF-CUSTODY RECORD

COC NUMBER: **163151-058**

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 Day Tank 1	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.):
Day Tank 1 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-0909-02-32	SVE Effluent	AIR	09/09/02	14:50	III/C	14 Day	1									025	Grab	Summa Canister	
2																				
3																				
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 # 7900 5559 9676

SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:

RELINQUISHED BY: Printed Name and Signature:	DATE	TIME	RECEIVED BY: Printed Name and Signature:	DATE	TIME
R. Dumaop	9/9/02	11:00	Federal Express	9/9/02	11:00
Printed Name and Signature:			Printed Name and Signature: Mark Swafford Mark Swafford	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

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									*24	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: R. Dumaop	9/9/02	11:00	Printed Name and Signature: Federal Express	9/9/02	11:00
Printed Name and Signature:			Printed Name and Signature: Mark Swofford Mark Swofford	9/12/02	945
Printed Name and Signature:			Printed Name and Signature:		

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CTO-0062, NAS Cecil Field

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
163151-063

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 Building 46	163151	Stephanie Tepe Kemron Environmental Services	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.):
Building 46 Quarterly GW Sampling Event	0062	3868	Christelle Newsome CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 PH:(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	Phone: 904-777-4812 Fax:904-777-4262	Phone: 740-373-4071 Fax: 740-373-4835		

ANALYSES REQUIRED (Include Method Numbers)

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX	DATE COLLECTED	TIME COLLECTED	~~DATA PKG~~ LEVEL	TAT (calendar days)	BTEX by 8021B	Naphthalene & 15 Method Listed PAHs by 8310	TRPH by FL-PRO	NO2 NO3 PO4 by EPA Method 300.0				SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	062-CEF46-1S-Q3-02-20	CEF-46-1S	W	09/18/02	9:05	III/C	14	2	2	2	1				Grab		
2	062-CEF46-5I-Q3-02-20	CEF-46-5I	W	09/18/02	8:30	III/C	14	2	2	2	1				Grab		
3	062-CEF46-6D-Q3-02-20	CEF-46-6D	W	09/18/02	8:55	III/C	14	2	2	2	1				Grab		
4	062-CEF46-21I-Q3-02-20	CEF-46-21I	W	09/18/02	10:35	III/C	14	2	2	2	1				Grab		
5	062-CEF46-24D-Q3-02-20	CEF-46-24D	W	09/18/02	10:00	III/C	14	2	2	2	1				Grab		
6	062-CEF46-25I-Q3-02-20	CEF-46-25I	W	09/18/02	11:50	III/C	14	2	2	2	1				Grab		
7	062-CEF46-26I-Q3-02-20	CEF-46-26I	W	09/18/02	13:20	III/C	14	2	2	2	1				Grab		
8	062-46TB2-Q3-02-20	Trip Blank #2	W	NA	NA	III/C	14	2							Grab	Prepared by Lab	
9	NA	Temperature Blank	W	NA	NA	III/C	14					4			Grab	Prepared by Lab	
10																	
11																	

SAMPLER(S) AND COMPANY: (please print)	COURIER AND SHIPPING NUMBER:
Randy Dumaop / Mark Yarbrough J.A. Jones Environmental Services	Federal Express Track # 791934523402, 791934523413, 791934523424, 791934523446. (4 Coolers)

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature:			Printed Name and Signature:		
R. Dumaop	9/18/02	18:00	Federal Express Track # 791934523402, 791934523413, 791934523424, 791934523446. (4 Coolers)	9/18/02	18:00
Printed Name and Signature:			Printed Name and Signature:		
			SHAUNA HYDE	9/19/02	0957

sign under see UPS #3

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Form CCI001, Rev 02/00

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
163151-061

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 Building 9	163151	Stephanie Tepe Kemron Environmental Services	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.):
Building 9 Quarterly GW Sampling Event	0062	3868	Christelle Newsome CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 PH:(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	Phone: 904-777-4812 Fax:904-777-4262	Phone: 740-373-4071 Fax: 740-373-4835		

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)	BTEX by 8021B	Naphthalene & 15 Methd Listed PAHs by 8310	TRPH by FL-PRO	NO2 NO3 PO4 by EPA Method 300.0					SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	062-CEF9-2S-Q3-02-21	CEF-9-2S	W	09/16/02	9:05	III/C	14	2	2	2	1					Grab		
2	062-CEF9-3S-Q3-02-21	CEF-9-3S	W	09/16/02	11:20	III/C	14	2	2	2	1					Grab		
3	062-CEF9-5S-Q3-02-21	CEF-9-5S	W	09/16/02	14:15	III/C	14	2	2	2	1					Grab		
4	062-CEF9-7D-Q3-02-21	CEF-9-7D	W	09/16/02	11:55	III/C	14	6	6	6	3					Grab	(MS/MSD)	
5	062-CEF9-9S-Q3-02-21	CEF-9-9S	W	09/16/02	13:50	III/C	14	2	2	2	1					Grab		
6	062-9DUP-Q3-02-21	Duplicate	W	09/16/02	NA	III/C	14	2	2	2	1					Grab		
7	062-9EQB-Q3-02-21	Equipment Blank	W	09/16/02	12:20	III/C	14	2	2	2	1					Grab		
8	062-9TB-Q3-02-21	Trip Blank	W	NA	NA	III/C	14	2									Prepared by Lab	
9	NA	Temperature Blank	W	NA	NA	III/C	14					5					Prepared by Lab	
10																		

SAMPLER(S) AND COMPANY: (please print)	COURIER AND SHIPPING NUMBER:
Randy Dumaop / Mark Yarborough J.A. Jones Environmental Services	Federal Express Track No's.790065277115, 790065277001, 790065277192, 790065276932, 790065276818. (5 Coolers)

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature:			Printed Name and Signature:		
R. Dumaop	6/5/02	18:00	Federal Express	6/5/02	18:00
Printed Name and Signature:			Printed Name and Signature:		
			SHAUNA HYDE	9/17/02	1257

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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
163151-062 page _1_ of _1_

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 Building 46	163151	Teressa Davis Kemron Environmental Services	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.):
Building 46 Quarterly GW Sampling Event	0062	3868	Christelle Newsome CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 PH:(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	Phone: 904-777-4812 Fax:904-777-4262	Phone: 740-373-4071 Fax: 740-373-4835		

ANALYSES REQUIRED (Include Method Numbers)

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX	DATE COLLECTED	TIME COLLECTED	~~DATA PKG~~ LEVEL	TAT (calendar days)	BTEX by 8021B	Naphthalene & 15 Method Listed PAHs by 8310	TRPH by FL-PRO	NO2 NO3 PO4 by EPA Method 300.0				SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	062-CEF46-2S-Q3-02-20	CEF-46-2S	W	09/17/02	15:05	III/C	14	2	2	2	1				Grab		
2	062-CEF46-7I-Q3-02-20	CEF-46-7I	W	09/17/02	14:05	III/C	14	2	2	2	1				Grab		
3	062-CEF46-9I-Q3-02-20	CEF-46-9I	W	09/17/02	13:20	III/C	14	6	6	6	3				Grab	MS/MSD	
4	062-CEF46-12I-Q3-02-20	CEF-46-12I	W	09/17/02	10:45	III/C	14	2	2	2	1				Grab		
5	062-CEF46-13I-Q3-02-20	CEF-46-13I	W	09/17/02	11:15	III/C	14	2	2	2	1				Grab		
6	062-CEF46-14D-Q3-02-20	CEF-46-14D	W	09/17/02	11:55	III/C	14	2	2	2	1				Grab		
7	062-CEF46-15I-Q3-02-20	CEF-46-15I	W	09/17/02	10:15	III/C	14	6	2	2	1				Grab		
8	062-46DUP-Q3-02-20	Duplicate	W	09/17/02	NA	III/C	14	2	2	2	1				Grab		
9	062-46EQB-Q3-02-20	Equipment Blank	W	09/17/02	12:50	III/C	14	2	2	2	1				Grab		
10	062-46TB1-Q3-02-20	Trip Blank No. 1	W	NA	NA	III/C	14	2							Grab	Prepared by Lab	
11	NA	Temperature Blank	W	NA	NA	III/C	14					6			Grab	Prepared by Lab	

SAMPLER(S) AND COMPANY: (please print)	COURIER AND SHIPPING NUMBER:
Randy Dumaop / Mark Yarbrough J.A. Jones Environmental Services	Federal Express Track #791934090038, 792749784160, 791934090174, 791934090200, 792105721377, 792105721399.(6 Coolers)

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature: R. Dumaop	9/17/02	18:00	Printed Name and Signature: Federal Express	9/17/02	18:00
Printed Name and Signature:			Printed Name and Signature: SHAUNA HYDE	9-18-02	0957

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L0209516

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: **163151-066**

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 Building 46	163151	Stephanie Tepe Kemron Environmental Services	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.):
Building 46 / Quarterly Soil Boring Sampling Event	0062	3868	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	Phone: 904-777-4812 Fax:904-777-4262	Phone: 740-373-4071 Fax: 740-373-4835		

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)	BTEX and MTBE by 8021B(EnCore)	Naphthalene & 15 Methd Listed PAHs by 8310	TRPH by FL-PRO						SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	062-CEF46-SB1-S-Q3-02	Soil Boring 1 @ 2' bls.	S	09/26/02	13:35	III/C	14	3	1	1						Grab	OVA : 34,999 ppm	
2	062-CEF46-SB2-S-Q3-02	Soil Boring 2 @ 2' bls.	S	09/26/02	13:55	III/C	14	3	1	1						Grab	OVA : 19,990 ppm	
3	062-CEF46-SB14-S-Q3-02	Soil Boring 14 @ 4' bls.	S	09/26/02	14:15	III/C	14	3	1	1						Grab	OVA : 1,385 ppm	
4	062-CEF46-EQB-W-Q3-02	Equipment Blank	W	09/26/02	14:25	III/C	14	2	2	2						Grab		
5	062-CEF46-TB-W-Q3-02	Trip Blank	W	--	--	III/C	14	2									Prepared by Lab	
6		Temperature Blank	W	--	--						1							
7																		
8																		
9																		
10																		

SAMPLER(S) AND COMPANY: (please print)	COURIER AND SHIPPING NUMBER:
Randy Dumaop / Roger Deisler J.A. Jones Environmental Services	Federal Express Track #792752780893, 792752780850 .

RELINQUISHED BY: Printed Name and Signature:	DATE	TIME	RECEIVED BY: Printed Name and Signature:	DATE	TIME
Randy Dumaop	9/26/02	17:00	Federal Express	9/26/02	17:00
Printed Name and Signature:			Printed Name and Signature:		
			SHAUNA HYDE Shauna Hyde	9-27-02	0956

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Form CC1001, Rev 02/00

L0209517

:H2M Hill Constructors, Inc.
'5 Perimeter Center Place, Suite 700
'lanta, GA 30346-1278
el No (770) 604-9182 ; Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER: 163151-065

ROJECT 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.):
.A.S. Cecil Field uilding 9	163151	Stephanie Tepe Kemron Environmental Services	Bill Canelos J.A Jones Env. Services	6219 Authority Road, Jacksonville, FL 32221 PH: (904) 7774812 FAX: (904) 7774262
ROJECT 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.):
uilding 9 / Quarterly Soil Boring ampling Event	0062	3868	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
ROJECT 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.):
ill Canelos	Phone: 904-777-4812 Fax:904-777-4262	Phone: 740-373-4071 Fax: 740-373-4835		

ANALYSES REQUIRED (Include Method Numbers)

TEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	BTEX and MTBE by 8021B(EnCore)	Naphthalene & 15 Methd Listed PAHs by 8310	TRPH by FL-PRO						SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	062-CEF9-SB1-S-Q3-02	Soil Boring 1 @ 2' bls.	S	09/26/02	10:25	III/C	14	3	1	1						Grab	OVA : 1 ppm	
2	062-CEF9-EQB-W-Q3-02	Equipment Blank	W	09/26/02	11:05	III/C	14	2	2	2						Grab		
3	062-CEF9-TB-W-Q3-02	Trip Blank	W	--	--	III/C	14	2									Prepared by Lab	
4		Temperature Blank	W	--	--						1							
5																		
6																		
7																		
8																		
9																		
10																		

AMPLER(S) AND COMPANY: (please print)	COURIER AND SHIPPING NUMBER:
andy Dumaop / Roger Deisler A. Jones Environmental Services	Federal Express Track #792752780893, 792752780850 .

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
nted Name and Signature:			Printed Name and Signature:		
andy Dumaop	9/26/02	17:00	Federal Express	9/26/02	17:00
nted Name and Signature:			Printed Name and Signature:		
			SHAUNA HYDE Shauna Hyde	9-27-02	0956

air intact @3,4°C

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Form CCI001, Rev 02/00

Validated Chemical Test Results from Work Order 2209102

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/BILL 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/BILL 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 Constructors, 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/BILL 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 Number)

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)	Temperature ice pH<2 (8260, 6010, Pro)

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 Bosiono		
Printed Name and Signature:			Printed Name and Signature:	9-14-02	10:45

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 REPORT/BILL 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) 777-4812 FAX: (904) 777-4262
PROJECT PHASE/SITE/TASK:	CTO OR DO NUMBER:	LAB PO NUMBER:	FAX AND MAIL REPORT/BILL 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 Constructors, 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 REPORT/BILL 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 Number)

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)	COURIER AND SHIPPING NUMBER:	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:
Randy Dumaop J.A. Jones Environmental Services	Federal Express TRK # 791930949438, 791930949441, 792184269327, 791930949496. (3 Coolers)	Temp upon rec'd 6°C pH<2 B260, 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	15:00
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:		

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

209-178 M.A.

COC NUMBER: 163151-064 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 Day Tank 1	163151	PEL / Darcy Wiseman	Bill Canelos / J.A Jones Env. Services	6219 Authority Ave. Building 1 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.):
Day Tank 1 3rd Quarter GW Sampling	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	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL	TAT (calendar days)	Volatiles by 8021	FAR82.1 - Naphthalene&1,2 - Naphthalene by 8310					SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	062-MW4-Q3-02-32	CEF-293-4	W	09/24/02	10:40	III/C	14	3	2				01	Grab		
2	062-MW9-Q3-02-32	CEF-293-9	W	09/23/02	17:30	III/C	14	3	2				02	Grab		
3	062-MW13-Q3-02-32	CEF-293-13	W	09/23/02	13:40	III/C	14	3	2				03	Grab		
4	062-MW20-Q3-02-32	CEF-293-20	W	09/23/02	10:45	III/C	14	9	6				04 05 06	Grab	MS / MSD	
5	062-MW22-Q3-02-32	CEF-293-22	W	09/23/02	11:35	III/C	14	3	2				07	Grab		
6	062-VEW2-Q3-02-32	VEW-2	W	09/23/02	16:00	III/C	14	3	2				08	Grab		
7	062-VEW3-Q3-02-32	VEW-3	W	09/23/02	16:45	III/C	14	3	2				09	Grab		
8	062-VEW4-Q3-02-32	VEW-4	W	09/23/02	12:25	III/C	14	3	2				10	Grab		
9	062-VEW5-Q3-02-32	VEW-5	W	09/23/02	15:15	III/C	14	3	2				11	Grab		
10	062-VEW6-Q3-02-32	VEW-6	W	09/23/02	14:30	III/C	14	3	2				12	Grab		

SAMPLER(S) AND COMPANY: (please print)	COURIER AND SHIPPING NUMBER:	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:
Randy Dumaop / Roger Deister J.A. Jones Environmental Services	Federal Express TRK #790077916377, 790077916447, 790077916469, 790077916539 . (4 Coolers)	Temp upon rec'd 4°C pH<2 (8021) Xtra container for 8310

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature: R.Dumaop	9/24/02	14:00	Printed Name and Signature: Federal Express	9/24/02	14:00
Printed Name and Signature:			Printed Name and Signature: Stan Floyd	9-25-02	11:20
Printed Name and Signature:			Printed Name and Signature:		

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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

2209-178 MM

COC NUMBER: 163151-064 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 Day Tank 1	163151	PEL / Darcy Wiseman	Bill Canelos / J.A Jones Env. Services	6219 Authority Ave. Building 1 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.):
Day Tank 1 3rd Quarter GW Sampling	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	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL	TAT (calendar days)	Volatiles by 8021	PAHs/1,1-Naphthalene/1,2-Naphthalene by 8310					SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	062-VEW7-Q3-02-32	VEW-7	W	09/24/02	11:25	III/C	14	3	2				13	Grab		
2	062-VEW8-Q3-02-32	VEW-8	W	09/23/02	18:15	III/C	14	3	2				14	Grab		
3	062-DUP-Q3-02-32	Duplicate	W	09/23/02	NA	III/C	14	3	2				15	Grab		
4	062-EQB-Q3-02-32	Equipment Blank	W	09/23/02	12:55	III/C	14	3	2				16	Grab		
5	062-TB-Q3-02-32	Trip Blank	W	NA	NA	III/C	14	1					17	Grab	prepared by Lab	
6	NA	Temperature Blank	W	NA	NA	III/C	14			4				Grab	prepared by Lab	
7																
8																
9																
10																
11																

SAMPLER(S) AND COMPANY: (please print)	COURIER AND SHIPPING NUMBER:	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:
Randy Dumaop / Roger Deisler J.A. Jones Environmental Services	Federal Express TRK #790077916377, 790077916447, 790077916469, 790077916539 . (4 Coolers)	

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature: R.Dumaop	9/24/02	14:00	Printed Name and Signature: Federal Express	9/24/02	14:00
Printed Name and Signature:			Printed Name and Signature: Stani Floyd	9-25-02	11:20
Printed Name and Signature:			Printed Name and Signature:		

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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-ELSPE Rob Edgar	7/18/02	0940
Printed Name and Signature			Printed Name and Signature:		

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

C207405

CHAIN-OF-CUSTODY RECORD

COC NUMBER
163151-054

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 Day Tank 1	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.):
Day Tank 1 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-0715-02-30	SVE Effluent	AIR	07/15/02	14:10	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. FUSPERMAN / Robert E	7/18/02	0940
Printed Name and Signature			Printed Name and Signature:		

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Form CC1001, Rev 02/00

NAS Cecil Field, CTO-0062

STL Pensacola

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

C208603

CHAIN-OF-CUSTODY RECORD

COC NUMBER
163151-057

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 Day Tank 1	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.):
Day Tank 1 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-0821-02-31	SVE Effluent	AIR	08/21/02	15:30	III/C	14 Day	1							2	8	2	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	8/21/02	16:00	Federal Express	8/21/02	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:		

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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:
Jean Smith J.A. Jones Environmental Services	Federal Express TRK # 8347 0807 3543	

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature: Bill Canelos Bill Canelos	8/26/02	16:00	Printed Name and Signature: 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

1

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:	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

270802 1430

Form I

NAH 2/19/03

1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name:	PEL Laboratories, Inc.	Contract:	NAS Cecil Field 10
Lab Code :	PEL	Case No.	
Matrix:	WATER	SAS No:	
Sample wt/vol:	5	Units:	ML
Concentrated Extract Volume:	5		
Level:(low/med)	LOW		
PercentSolids:	0	decanted :	
Extraction:	PURGETRAP		
GPC Cleanup : (Y/N)		pH:	
Column(1):	DB-624	ID: 0.18	(mm)

EPA Sample No.: 01Q30228

SDG No.: 2209102

Lab Sample ID: 220910201 Lab File ID: 10201.D

Date Received: 09/14/02

Date Extracted:

Date Analyzed: 09/25/02 Time: 1512

Dilution Factor: 1

Station ID: CEF-103-SMW-0 Method: 8260

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

270902 1430

Form I

MAS 2/19/03

1

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:	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

NAS 2/19/03

1

VOLATILE 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: 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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Form I

MH 2/9/03

1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name:	PEL Laboratories, Inc.	Contract:	NAS Cecil Field 10
Lab Code :	PEL	Case No.	
Matrix:	WATER	SAS No:	
Sample wt/vol:	5	Units:	ML
Concentrated Extract Volume:	5		
Level:(low/med)	LOW		
PercentSolids:	0	decanted :	
Extraction:	PURGETRAP		
GPC Cleanup : (Y/N)		pH:	
Column(1):	DB-624	ID:	0.18 (mm)

EPA Sample No.: 02Q30228

SDG No.: 2209102

Lab Sample ID: 220910202 Lab File ID: 10202.D

Date Received: 09/14/02

Date Extracted:

Date Analyzed: 09/25/02 Time: 1223

Dilution Factor: 1

Station ID: CEF-103-SMW-0 Method: 8260

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

7/19/03

1

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

7/19/03

1

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:	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		

03Q30228

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

2/14/03

1

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:	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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Form I

2/19/03

1

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:	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

2/19/03

1

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:	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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Form I

MAK 2/19/03

1

VOLATILE 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: 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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Form I

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1

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:	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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Form I

MAH 2/19/03

1

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
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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1

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:	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)		

05Q30228

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

MAH 2/19/03

1

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:	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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Form I

MJS 2/24/03

1

VOLATILE 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: 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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Form I

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1

VOLATILE 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: 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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Form I

2/14/03

1

VOLATILE 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: 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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MHB 2/19/03

1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name:	PEL Laboratories, Inc.	Contract:	NAS Cecil Field 10
Lab Code :	PEL	Case No.	
Matrix:	WATER	SAS No:	
Sample wt/vol:	5	Units:	ML
Concentrated Extract Volume:	5		
Level:(low/med)	LOW		
PercentSolids:	0	decanted :	
Extraction:	PURGETRAP		
GPC Cleanup : (Y/N)		pH:	
Column(1):	DB-624	ID:	0.18 (mm)
CONCENTRATION UNITS:	UG/L		

EPA Sample No.	07Q30228		
SDG No.:	2209102		
Lab Sample ID:	220910207	Lab File ID:	10207.D
Date Received:	09/14/02		
Date Extracted:			
Date Analyzed:	09/25/02	Time:	1424
Dilution Factor:	1		
Station ID:	CEF-103-SMW-0	Method:	8260

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

MAB 2/19/03

1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name:	PEL Laboratories, Inc.	Contract:	NAS Cecil Field 10
Lab Code :	PEL	Case No.	
Matrix:	WATER	SAS No:	
Sample wt/vol:	5	Units:	ML
Concentrated Extract Volume:	5		
Level:(low/med)	LOW		
PercentSolids:	0	decanted :	
Extraction:	PURGETRAP		
GPC Cleanup : (Y/N)		pH:	
Column(1):	DB-624	ID:	0.18 (mm)

EPA Sample No.	07Q30228		
SDG No.:	2209102		
Lab Sample ID:	220910207	Lab File ID:	10207.D
Date Received:	09/14/02		
Date Extracted:			
Date Analyzed:	09/25/02	Time:	1424
Dilution Factor:	1		
Station ID:	CEF-103-SMW-0	Method:	8260

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

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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:	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)		

07Q30228

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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1

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
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

2/14/03

1

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*
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

HAS 2/9/03

1

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:	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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Form I

MAH 2/14/03

1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name:	PEL Laboratories, Inc.	Contract:	NAS Cecil Field 10
Lab Code :	PEL	Case No.	
Matrix:	WATER	SAS No:	
Sample wt/vol:	5	Units:	ML
Concentrated Extract Volume:	5		
Level:(low/med)	LOW		
PercentSolids:	0	decanted :	
Extraction:	PURGETRAP		
GPC Cleanup : (Y/N)		pH:	
Column(1):	DB-624	ID:	0.18 (mm)
CONCENTRATION UNITS:	UG/L		

EPA Sample No.	11Q30228		
SDG No.:	2209102		
Lab Sample ID:	220910209	Lab File ID:	10209.D
Date Received:	09/14/02		
Date Extracted:			
Date Analyzed:	09/25/02	Time:	1159
Dilution Factor:	1		
Station ID:	CEF-103-SMW-1	Method:	8260

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

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1

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:	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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Form I

MAH 2/19/03

1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name: PEL Laboratories, Inc.

Contract: NAS Cecil Field 10

DUPQ30228

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.

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

EPA Sample No.: DUPQ30228

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	Qual	Code
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	~~0.68~~ 1	J	U	F
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

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
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:	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

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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*
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:	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

EPA Sample No.: TBQ30228

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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PAH 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: 1

Date Extracted: 09/16/02

Level:(low/med) LOW

Date Analyzed: 09/19/02 Time: 2221

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	0.21	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.

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

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PAH 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: 930 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: 2330

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	0.39	
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.

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

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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

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PAH 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: 102-7.D
Sample wt/vol:	960 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: 0223
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	0.21	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.

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: 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

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PAH 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:	220910209
Lab File ID:	102-9.D	Sample wt/vol:	945
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:	0332	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	0.34	
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.

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

DUPQ30228

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

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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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FL-PRO 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:	102-2.D		
Sample wt/vol:	960	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:	0101		
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*	Qual	Code
5289290-40-0	TPH	1.6		J	S

MAJ 2/4/03

1

FL-PRO 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:	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)		

03Q30228

CONCENTRATION UNITS: MG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*	Qual	Cal
5289290-40-0	TPH	0.24		J	S

MAH 2/19/03

270902 1430

Form I

1

FL-PRO 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:	102-4.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:	0159		
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	0.64	

MAH 2/19/03

270802 1430

Form I

1

FL-PRO 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:	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	

2/19/03

270602 1430

Form I

1

FL-PRO 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:	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*	Qual	Code
5289290-40-0	TPH	0.21	U	UJ	S

NAH 2/19/03

270802 1430

Form I

1

FL-PRO 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:	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*	Qual	Code
5289290-40-0	TPH	0.2	U	UJ	S

MHS 2/19/03

270802 1430

Form I

1

FL-PRO 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:	102-8R.D		
Sample wt/vol:	930	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:	1118		
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	0.22	U

MAH 2/19/03

270002 1430

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*	Qual	Code
5289290-40-0	TPH	1.7		J	S

MAH 2/19/03

I70802.1430

Form I

1

FL-PRO ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name:	PEL Laboratories, Inc.	Contract:	NAS Cecil Field 10
			DUPQ30228
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:	920
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:	1019	PercentSolids:	0
decanted :		Dilution Factor:	1
Extraction:	SEPF	Station ID:	Duplicate
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

pAh 2/19/03

270802 1430

Form I

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

MHS 2/19/03

U.S. EPA - CLP

1

INORGANIC 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:	220910201
Level:(low/med)	LOW	Date Received:	9/14/2002
PercentSolids:	0	Station ID:	CEF-103-SMW-01

01Q30228

CONCENTRATION UNITS: UG/L

CAS NO.	ANALYTE	Concentration	C	Q	M
7439-92-1	Lead	5	U		P

MTS 2/12/03

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

270802 1430

U.S. EPA - CLP

1

INORGANIC 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
Level:(low/med)	LOW	Date Received:	9/14/2002
PercentSolids:	0	Station ID:	CEF-103-SMW-02

02Q30228

CONCENTRATION UNITS: UG/L

CAS NO.	ANALYTE	Concentration	C	Q	M
7439-92-1	Lead	5	U		P

MAH 2/19/03

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

270802 1430

U.S. EPA - CLP

1

INORGANIC 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:	220910203
Level:(low/med)	LOW	Date Received:	9/14/2002
PercentSolids:	0	Station ID:	CEF-103-SMW-03

03Q30228

CONCENTRATION UNITS: UG/L

CAS NO.	ANALYTE	Concentration	C	Q	M
7439-92-1	Lead	31.3			P

MAH 7/19/03

Color Before: _____ Clarity Before: _____ Texture :_____

Color After : _____ Clarity After: _____ Artifacts:_____

Comments:

270802 1430

U.S. EPA - CLP

1

INORGANIC 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:	220910204
Level:(low/med)	LOW	Date Received:	9/14/2002
PercentSolids:	0	Station ID:	CEF-103-SMW-04

04Q30228

CONCENTRATION UNITS: UG/L

CAS NO.	ANALYTE	Concentration	C	Q	M
7439-92-1	Lead	5	U		P

MAB 2/19/03

Color Before: _____ Clarity Before: _____ Texture :_____

Color After : _____ Clarity After: _____ Artifacts:_____

Comments:

270802 1430

U.S. EPA - CLP

1

INORGANIC 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:	220910205
Level:(low/med)	LOW	Date Received:	9/14/2002
PercentSolids:	0	Station ID:	CEF-103-SMW-05

05Q30228

CONCENTRATION UNITS: UG/L

CAS NO.	ANALYTE	Concentration	C	Q	M
7439-92-1	Lead	5	U		P

MAG 2/19/03

Color Before: _____ Clarity Before: _____ Texture :_____

Color After : _____ Clarity After: _____ Artifacts:_____

Comments:

270802 1430

U.S. EPA - CLP

1

INORGANIC 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:	220910206
Level:(low/med)	LOW	Date Received:	9/14/2002
PercentSolids:	0	Station ID:	CEF-103-SMW-06

06Q30228

CONCENTRATION UNITS: UG/L

CAS NO.	ANALYTE	Concentration	C	Q	M
7439-92-1	Lead	5	U		P

MAS 2/19/03

Color Before: _____ Clarity Before: _____ Texture :_____

Color After : _____ Clarity After: _____ Artifacts:_____

Comments:

2708021430

U.S. EPA - CLP

1

INORGANIC 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:	220910207
Level:(low/med)	LOW	Date Received:	9/14/2002
PercentSolids:	0	Station ID:	CEF-103-SMW-07

07Q30228

CONCENTRATION UNITS: UG/L

CAS NO.	ANALYTE	Concentration	C	Q	M
7439-92-1	Lead	2.4	B		P

2/21/03

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

2/19/02 1430

U.S. EPA - CLP

1

INORGANIC 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:	220910208
Level:(low/med)	LOW	Date Received:	9/14/2002
PercentSolids:	0	Station ID:	CEF-103-SMW-10

10Q30228

CONCENTRATION UNITS: UG/L

CAS NO.	ANALYTE	Concentration	C	Q	M
7439-92-1	Lead	5	U		P

2/19/03

Color Before: _____ Clarity Before: _____ Texture :_____

Color After : _____ Clarity After: _____ Artifacts:_____

Comments:

270802 1430

U.S. EPA - CLP

1

INORGANIC 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:	220910209
Level:(low/med)	LOW	Date Received:	9/14/2002
PercentSolids:	0	Station ID:	CEF-103-SMW-11

11Q30228

CONCENTRATION UNITS: UG/L

CAS NO.	ANALYTE	Concentration	C	Q	M
7439-92-1	Lead	35.1			P

2/19/03

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

270902 1430

U.S. EPA - CLP

1

INORGANIC 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:	220910212
Level:(low/med)	LOW	Date Received:	9/14/2002
PercentSolids:	0	Station ID:	Duplicate

DUPQ30228

CONCENTRATION UNITS: UG/L

CAS NO.	ANALYTE	Concentration	C	Q	M
7439-92-1	Lead	5	U		P

2/19/03

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

270802 1430

U.S. EPA - CLP

1

INORGANIC 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

Level:(low/med) LOW Date Received: 9/14/2002

PercentSolids: 0 Station ID: Equipment Blank

CONCENTRATION UNITS: UG/L

CAS NO.	ANALYTE	Concentration	C	Q	M
7439-92-1	Lead	5	U		P

2/19/03

Color Before: _____ Clarity Before: _____ Texture : _____

Color After : _____ Clarity After: _____ Artifacts: _____

Comments:

270892 1430

Validated Chemical Test Results from Work Order 2209178

1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

062MW4Q302

Lab Name: PEL Laboratories, Inc.

Contract: Cecil Field 163151

Lab Code: PEL Case No.

SAS No:

SDG No.: 2209178

Matrix: WATER

Lab Sample ID: 220917801

Lab File ID: 178-1.D

Sample wt/vol: 5 Units: ML

Date Received: 09/25/02

Concentrated Extract Volume: 5

Date Extracted:

Level:(low/med) LOW

Date Analyzed: 09/27/02 Time: 1309

PercentSolids: 0 decanted :

Dilution Factor: 1

Extraction: PURGETRAP

Station ID: CEF-293-4 Method: 8021

GPC Cleanup : (Y/N) pH:

Column(1): RTX-502.2 ID: 0.53 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
71-43-2	Benzene	0.5	U
1634-04-4	MTBE	0.57	U
108-88-3	Toluene	0.5	U
100-41-4	Ethylbenzene	0.5	U
511-39-00	p,m-Xylene	1	U
95-47-6	o-Xylene	0.5	U

2/19/03

081002 1343

Form I

1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name:	PEL Laboratories, Inc.	Contract:	Cecil Field 163151
			062MW9Q302
Lab Code :	PEL Case No.	SAS No:	SDG No.: 2209178
Matrix:	WATER	Lab Sample ID:	220917802 Lab File ID: 178-2.D
Sample wt/vol:	5 Units: ML	Date Received:	09/25/02
Concentrated Extract Volume:	5	Date Extracted:	
Level:(low/med)	LOW	Date Analyzed:	09/27/02 Time: 1353
PercentSolids:	0 decanted :	Dilution Factor:	1
Extraction:	PURGETRAP	Station ID:	CEF-293-9 Method: 8021
GPC Cleanup : (Y/N)	pH:		
Column(1):	RTX-502.2 ID: 0.53 (mm)		
CONCENTRATION UNITS:	UG/L		

CAS NO.	*ANALYTE*	*RESULT*	*Q*
71-43-2	Benzene	0.5	U
1634-04-4	MTBE	0.57	U
108-88-3	Toluene	0.5	U
100-41-4	Ethylbenzene	0.5	U
511-39-00	p,m-Xylene	1	U
95-47-6	o-Xylene	0.5	U

2/19/03

1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name:	PEL Laboratories, Inc.	Contract:	Cecil Field 163151
			062MW13Q302
Lab Code :	PEL	Case No.	
SAS No:		SDG No.:	2209178
Matrix:	WATER	Lab Sample ID:	220917803
Lab File ID:	178-3.D	Sample wt/vol:	5
Units:	ML	Date Received:	09/25/02
Concentrated Extract Volume:	5	Date Extracted:	
Level:(low/med)	LOW	Date Analyzed:	09/27/02
Time:	1438	PercentSolids:	0
decanted :		Dilution Factor:	1
Extraction:	PURGETRAP	Station ID:	CEF-293-13
Method:	8021	GPC Cleanup : (Y/N)	
pH:		Column(1):	RTX-502.2
ID:	0.53 (mm)		

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
71-43-2	Benzene	0.5	U
1634-04-4	MTBE	0.57	U
108-88-3	Toluene	0.5	U
100-41-4	Ethylbenzene	0.4	J
511-39-00	p,m-Xylene	1	U
95-47-6	o-Xylene	0.17	J

pMH 2/9/03

081002 1343

Form I

1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

062MW20Q302

Lab Name: PEL Laboratories, Inc.

Contract: Cecil Field 163151

Lab Code : PEL Case No.

SAS No:

SDG No.: 2209178

Matrix: WATER

Lab Sample ID: 220917804

Lab File ID: 178-4R.D

Sample wt/vol: 5 Units: ML

Date Received: 09/25/02

Concentrated Extract Volume: 5

Date Extracted:

Level:(low/med) LOW

Date Analyzed: 09/28/02 Time: 1508

PercentSolids: 0 decanted :

Dilution Factor: 1

Extraction: PURGETRAP

Station ID: CEF-293-20 Method: 8021

GPC Cleanup : (Y/N) pH:

Column(1): RTX-502.2 ID: 0.53 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*	Qual	Code
71-43-2	Benzene	0.55			
1634-04-4	MTBE	0.57	U		
108-88-3	Toluene	~~0.24~~ 0.5	J	u	F
100-41-4	Ethylbenzene	0.3	J		
511-39-00	p,m-Xylene	1	U		
95-47-6	o-Xylene	0.34	J		

MTH 2/19/03

081002 1343

Form I

1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

062MW22Q302

Lab Name: PEL Laboratories, Inc.

Contract: Cecil Field 163151

Lab Code: PEL Case No.

SAS No:

SDG No.: 2209178

Matrix: WATER

Lab Sample ID: 220917807

Lab File ID: 178-7.D

Sample wt/vol: 5 Units: ML

Date Received: 09/25/02

Concentrated Extract Volume: 5

Date Extracted:

Level:(low/med) LOW

Date Analyzed: 09/27/02 Time: 1735

PercentSolids: 0 decanted :

Dilution Factor: 1

Extraction: PURGETRAP

Station ID: CEF-293-22 Method: 8021

GPC Cleanup : (Y/N) pH:

Column(1): RTX-502.2 ID: 0.53 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	ANALYTE	RESULT	Q
71-43-2	Benzene	0.35	J
1634-04-4	MTBE	0.57	U
108-88-3	Toluene	0.5	U
100-41-4	Ethylbenzene	0.5	U
511-39-00	p,m-Xylene	1	U
95-47-6	o-Xylene	0.5	U

MTH 2/19/03

081602 1343

Form I

1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

062VEW2Q302

Lab Name: PEL Laboratories, Inc.

Contract: Cecil Field 163151

Lab Code: PEL Case No.

SAS No: SDG No.: 2209178

Matrix: WATER

Lab Sample ID: 220917808 Lab File ID: 178-8.D

Sample wt/vol: 5 Units: ML

Date Received: 09/25/02

Concentrated Extract Volume: 5

Date Extracted:

Level:(low/med) LOW

Date Analyzed: 09/27/02 Time: 1943

PercentSolids: 0 decanted:

Dilution Factor: 1

Extraction: PURGETRAP

Station ID: VEW-2 Method: 8021

GPC Cleanup: (Y/N) pH:

Column(1): RTX-502.2 ID: 0.53 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
71-43-2	Benzene	0.5	U
1634-04-4	MTBE	0.57	U
108-88-3	Toluene	0.5	U
100-41-4	Ethylbenzene	0.5	U
511-39-00	p,m-Xylene	1	U
95-47-6	o-Xylene	0.21	J

2/19/03

081002 1343

Form I

1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

062VEW3Q302

Lab Name: PEL Laboratories, Inc.

Contract: Cecil Field 163151

Lab Code : PEL Case No.

SAS No: SDG No.: 2209178

Matrix: WATER

Lab Sample ID: 220917809 Lab File ID: 178-9.D

Sample wt/vol: 5 Units: ML

Date Received: 09/25/02

Concentrated Extract Volume: 5

Date Extracted:

Level:(low/med) LOW

Date Analyzed: 09/27/02 Time: 2026

PercentSolids: 0 decanted :

Dilution Factor: 1

Extraction: PURGETRAP

Station ID: VEW-3 Method: 8021

GPC Cleanup : (Y/N) pH:

Column(1): RTX-502.2 ID: 0.53 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
71-43-2	Benzene	0.5	U
1634-04-4	MTBE	0.57	U
108-88-3	Toluene	0.5	U
100-41-4	Ethylbenzene	0.5	U
511-39-00	p,m-Xylene	1	U
95-47-6	o-Xylene	0.5	U

pMH 7/19/03

081002 1343

Form I

1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name:	PEL Laboratories, Inc.	Contract:	Cecil Field 163151
			062VEW4Q302
Lab Code :	PEL	Case No.	
SAS No:		SDG No.:	2209178
Matrix:	WATER	Lab Sample ID:	220917810
Lab File ID:	178-10.D	Sample wt/vol:	5
Units:	ML	Date Received:	09/25/02
Concentrated Extract Volume:	5	Date Extracted:	
Level:(low/med)	LOW	Date Analyzed:	09/27/02
Time:	2108	PercentSolids:	0
decanted :		Dilution Factor:	1
Extraction:	PURGETRAP	Station ID:	VEW-4
Method:	8021	GPC Cleanup : (Y/N)	
pH:		Column(1):	RTX-502.2
ID:	0.53 (mm)		

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
71-43-2	Benzene	0.5	U
1634-04-4	MTBE	0.57	U
108-88-3	Toluene	0.5	U
100-41-4	Ethylbenzene	0.5	U
511-39-00	p,m-Xylene	1	U
95-47-6	o-Xylene	0.5	U

MH 2/4/03

081092 1343

Form I

1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name:	PEL Laboratories, Inc.	Contract:	Cecil Field 163151
			062VEW5Q302
Lab Code :	PEL	Case No.	
SAS No:		SDG No.:	2209178
Matrix:	WATER	Lab Sample ID:	220917811
Lab File ID:	178-11.D		
Sample wt/vol:	5	Units:	ML
Date Received:	09/25/02		
Concentrated Extract Volume:	5	Date Extracted:	
Level:(low/med)	LOW	Date Analyzed:	09/27/02
Time:	2152		
PercentSolids:	0	decanted :	
Dilution Factor:	1		
Extraction:	PURGETRAP	Station ID:	VEW-5
Method:	8021		
GPC Cleanup : (Y/N)		pH:	
Column(1):	RTX-502.2	ID:	0.53 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
71-43-2	Benzene	0.5	U
1634-04-4	MTBE	0.57	U
108-88-3	Toluene	0.5	U
100-41-4	Ethylbenzene	0.5	U
511-39-00	p,m-Xylene	1	U
95-47-6	o-Xylene	0.5	U

MAY 2/9/03

061002 1343

Form I

1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

062VEW6Q302

Lab Name: PEL Laboratories, Inc.

Contract: Cecil Field 163151

Lab Code : PEL Case No.

SAS No:

SDG No.: 2209178

Matrix: WATER

Lab Sample ID: 220917812

Lab File ID: 178-12.D

Sample wt/vol: 5 Units: ML

Date Received: 09/25/02

Concentrated Extract Volume: 5

Date Extracted:

Level:(low/med) LOW

Date Analyzed: 09/27/02 Time: 2234

PercentSolids: 0 decanted :

Dilution Factor: 1

Extraction: PURGETRAP

Station ID: VEW-6 Method: 8021

GPC Cleanup : (Y/N) pH:

Column(1): RTX-502.2 ID: 0.53 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
71-43-2	Benzene	0.5	U
1634-04-4	MTBE	0.57	U
108-88-3	Toluene	0.5	U
100-41-4	Ethylbenzene	0.5	U
511-39-00	p,m-Xylene	1	U
95-47-6	o-Xylene	0.5	U

KMH 2/14/03

1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

062VEW7Q302

Lab Name: PEL Laboratories, Inc.

Contract: Cecil Field 163151

Lab Code : PEL Case No.

SAS No:

SDG No.: 2209178

Matrix: WATER

Lab Sample ID: 220917813

Lab File ID: 178-13R.D

Sample wt/vol: 5 Units: ML

Date Received: 09/25/02

Concentrated Extract Volume: 5

Date Extracted:

Level:(low/med) LOW

Date Analyzed: 09/28/02 Time: 1847

PercentSolids: 0 decanted :

Dilution Factor: 1

Extraction: PURGETRAP

Station ID: VEW-7 Method: 8021

GPC Cleanup : (Y/N) pH:

Column(1): RTX-502.2 ID: 0.53 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
71-43-2	Benzene	0.5	U
1634-04-4	MTBE	0.57	U
108-88-3	Toluene	0.5	U
100-41-4	Ethylbenzene	0.5	U
511-39-00	p,m-Xylene	1	U
95-47-6	o-Xylene	0.5	U

MM 2/19/03

081002 1343

Form I

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062VEW8Q302

Lab Name: PEL Laboratories, Inc.
Contract: Cecil Field 163151
Lab Code: PEL
Case No.
SAS No:
SDG No.: 2209178
Matrix: WATER
Lab Sample ID: 220917814
Lab File ID: 178-14.D
Sample wt/vol: 5
Units: ML
Date Received: 09/25/02
Concentrated Extract Volume: 5
Date Extracted:
Level:(low/med) LOW
Date Analyzed: 09/28/02
Time: 0000
PercentSolids: 0
decanted :
Dilution Factor: 1
Extraction: PURGETRAP
Station ID: VEW-8
Method: 8021
GPC Cleanup : (Y/N)
pH:
Column(1): RTX-502.2
ID: 0.53 (mm)
CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
71-43-2	Benzene	0.5	U
1634-04-4	MTBE	0.57	U
108-88-3	Toluene	0.5	U
100-41-4	Ethylbenzene	0.5	U
511-39-00	p,m-Xylene	1	U
95-47-6	o-Xylene	0.5	U

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051002 1343

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name:	PEL Laboratories, Inc.	Contract:	Cecil Field 163151
			062DUPQ302
Lab Code :	PEL Case No.	SAS No:	SDG No.: 2209178
Matrix:	WATER	Lab Sample ID:	220917815 Lab File ID: 178-15.D
Sample wt/vol:	5 Units: ML	Date Received:	09/25/02
Concentrated Extract Volume:	5	Date Extracted:	
Level:(low/med)	LOW	Date Analyzed:	09/28/02 Time: 1637
PercentSolids:	0 decanted :	Dilution Factor:	1
Extraction:	PURGETRAP	Station ID:	Duplicate Method: 8021
GPC Cleanup : (Y/N)	pH:		
Column(1):	RTX-502.2 ID: 0.53 (mm)		
CONCENTRATION UNITS:	UG/L		

CAS NO.	*ANALYTE*	*RESULT*	*Q*
71-43-2	Benzene	0.5	U
1634-04-4	MTBE	0.57	U
108-88-3	Toluene	0.5	U
100-41-4	Ethylbenzene	0.5	U
511-39-00	p,m-Xylene	1	U
95-47-6	o-Xylene	0.5	U

2/19/03

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VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

062EQBQ302

Lab Name: PEL Laboratories, Inc.

Contract: Cecil Field 163151

Lab Code : PEL Case No.

SAS No:

SDG No.: 2209178

Matrix: WATER

Lab Sample ID: 220917816

Lab File ID: 178-16.D

Sample wt/vol: 5 Units: ML

Date Received: 09/25/02

Concentrated Extract Volume: 5

Date Extracted:

Level:(low/med) LOW

Date Analyzed: 09/28/02 Time: 1804

PercentSolids: 0 decanted :

Dilution Factor: 1

Extraction: PURGETRAP

Station ID: Equipment Blank Method: 8021

GPC Cleanup : (Y/N) pH:

Column(1): RTX-502.2 ID: 0.53 (mm)

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*	Qual	Code
71-43-2	Benzene	0.5	U		
1634-04-4	MTBE	0.57	U		
108-88-3	Toluene	~~0.21~~ 0.5	J	U	F
100-41-4	Ethylbenzene	0.5	U		
511-39-00	p,m-Xylene	1	U		
95-47-6	o-Xylene	0.5	U		

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081902 1343

Form I

1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name:	PEL Laboratories, Inc.	Contract:	Cecil Field 163151
			062TBQ302
Lab Code :	PEL Case No.	SAS No:	SDG No.: 2209178
Matrix:	WATER	Lab Sample ID:	220917817 Lab File ID: 178-17.D
Sample wt/vol:	5 Units: ML	Date Received:	09/25/02
Concentrated Extract Volume:	5	Date Extracted:	
Level:(low/med)	LOW	Date Analyzed:	09/27/02 Time: 1607
PercentSolids:	0 decanted :	Dilution Factor:	1
Extraction:	PURGETRAP	Station ID:	Trip Blank Method: 8021
GPC Cleanup : (Y/N)	pH:		
Column(1):	RTX-502.2 ID: 0.53 (mm)		
CONCENTRATION UNITS:	UG/L		

CAS NO.	*ANALYTE*	*RESULT*	*Q*	Qual	Code
71-43-2	Benzene	0.5	U		
1634-04-4	MTBE	0.57	U		
108-88-3	Toluene	~~0.34~~ 0.5	J	u	F
100-41-4	Ethylbenzene	0.5	U		
511-39-00	p,m-Xylene	1	U		
95-47-6	o-Xylene	0.5	U		

MAB 2/19/03

081002 1343

Form I

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PAH ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

062MW4Q302

Lab Name: PEL Laboratories, Inc.
Contract: Cecil Field 163151
Lab Code: PEL
Case No.
SAS No:
SDG No.: 2209178
Matrix: WATER
Lab Sample ID: 220917801
Lab File ID: 178-1.D
Sample wt/vol: 990
Units: ML
Date Received: 09/25/02
Concentrated Extract Volume: 1
Date Extracted: 09/26/02
Level:(low/med) LOW
Date Analyzed: 09/27/02
Time: 1513
PercentSolids: 0
decanted:
Dilution Factor: 1
Extraction: SEPF
Station ID: CEF-293-4
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	0.2	U
208-96-8	Acenaphthylene	0.2	U
90-12-0	1-Methylnaphthalene	0.2	U
91-57-6	2-Methylnaphthalene	0.2	U
83-32-9	Acenaphthene	0.2	U
86-73-7	Fluorene	0.2	U
85-01-8	Phenanthrene	0.2	U
120-12-7	Anthracene	0.2	U
206-44-0	Fluoranthene	0.2	U
129-00-0	Pyrene	0.2	U
56-55-3	Benzo(a)anthracene	0.2	U
218-01-9	Chrysene	0.2	U
205-99-2	Benzo(b)fluoranthene	0.2	U
207-08-9	Benzo(k)fluoranthene	0.2	U
50-32-8	Benzo(a)pyrene	0.2	U
53-70-3	Dibenz(a,h)anthracene	0.2	U
191-24-2	Benzo(g,h,i)perylene	0.2	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.2	U

MAH 2/14/03

081002 1343

Form I

1

PAH ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

062MW9Q302

Lab Name: PEL Laboratories, Inc.

Contract: Cecil Field 163151

Lab Code: PEL Case No.

SAS No:

SDG No.: 2209178

Matrix: WATER

Lab Sample ID: 220917802

Lab File ID: 178-2.D

Sample wt/vol: 950 Units: ML

Date Received: 09/25/02

Concentrated Extract Volume: 1

Date Extracted: 09/26/02

Level:(low/med) LOW

Date Analyzed: 09/27/02 Time: 1547

PercentSolids: 0 decanted:

Dilution Factor: 1

Extraction: SEPF

Station ID: CEF-293-9 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

MAB 2/4/03

081002.1343

Form I

1

PAH ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

062MW13Q302

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field 163151

Lab Code : PEL Case No. SAS No: SDG No.: 2209178

Matrix: WATER Lab Sample ID: 220917803 Lab File ID: 178-3.D

Sample wt/vol: 950 Units: ML Date Received: 09/25/02

Concentrated Extract Volume: 1 Date Extracted: 09/26/02

Level:(low/med) LOW Date Analyzed: 09/27/02 Time: 1622

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: SEPF Station ID: CEF-293-13 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	0.34	
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	0.26	
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

MAG 2/19/03

081002 1343

Form I

PAH ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062MW20Q302

Lab Name: PEL Laboratories, Inc.
Contract: Cecil Field 163151
Lab Code: PEL
Case No.:
SAS No.:
SDG No.: 2209178
Matrix: WATER
Lab Sample ID: 220917804
Lab File ID: 178-4.D
Sample wt/vol: 980
Units: ML
Date Received: 09/25/02
Concentrated Extract Volume: 1
Date Extracted: 09/26/02
Level:(low/med) LOW
Date Analyzed: 09/27/02
Time: 1656
PercentSolids: 0
decanted:
Dilution Factor: 1
Extraction: SEPF
Station ID: CEF-293-20
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	0.61	
208-96-8	Acenaphthylene	0.2	U
90-12-0	1-Methylnaphthalene	0.2	U
91-57-6	2-Methylnaphthalene	0.2	U
83-32-9	Acenaphthene	0.2	U
86-73-7	Fluorene	0.2	U
85-01-8	Phenanthrene	0.2	U
120-12-7	Anthracene	0.2	U
206-44-0	Fluoranthene	0.2	U
129-00-0	Pyrene	0.2	U
56-55-3	Benzo(a)anthracene	0.2	U
218-01-9	Chrysene	0.2	U
205-99-2	Benzo(b)fluoranthene	0.2	U
207-08-9	Benzo(k)fluoranthene	0.2	U
50-32-8	Benzo(a)pyrene	0.2	U
53-70-3	Dibenz(a,h)anthracene	0.2	U
191-24-2	Benzo(g,h,i)perylene	0.2	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.2	U

MAH 2/19/03

1

PAH ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

062MW22Q302

Lab Name: PEL Laboratories, Inc.

Contract: Cecil Field 163151

Lab Code : PEL Case No.

SAS No: SDG No.: 2209178

Matrix: WATER

Lab Sample ID: 220917807 Lab File ID: 178-7.D

Sample wt/vol: 950 Units: ML

Date Received: 09/25/02

Concentrated Extract Volume: 1

Date Extracted: 09/26/02

Level:(low/med) LOW

Date Analyzed: 09/27/02 Time: 1731

PercentSolids: 0 decanted :

Dilution Factor: 1

Extraction: SEPF

Station ID: CEF-293-22 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	2.7	
208-96-8	Acenaphthylene	0.21	U
90-12-0	1-Methylnaphthalene	5.9	
91-57-6	2-Methylnaphthalene	8.5	
83-32-9	Acenaphthene	0.21	U
86-73-7	Fluorene	0.23	
85-01-8	Phenanthrene	0.52	
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

2/19/03

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PAH ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name:	PEL Laboratories, Inc.	Contract:	Cecil Field 163151
			062VEW2Q302
Lab Code :	PEL Case No.	SAS No:	SDG No.: 2209178
Matrix:	WATER	Lab Sample ID:	220917808 Lab File ID: 178-8.D
Sample wt/vol:	960 Units: ML	Date Received:	09/25/02
Concentrated Extract Volume:	1	Date Extracted:	09/26/02
Level:(low/med)	LOW	Date Analyzed:	09/27/02 Time: 1840
PercentSolids:	0 decanted :	Dilution Factor:	1
Extraction:	SEPF	Station ID:	VEW-2 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	0.59	
90-12-0	1-Methylnaphthalene	0.21	U
91-57-6	2-Methylnaphthalene	0.24	
83-32-9	Acenaphthene	0.21	U
86-73-7	Fluorene	0.21	U
85-01-8	Phenanthrene	0.3	
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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Form I

1

PAH ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062VEW3Q302

Lab Name: PEL Laboratories, Inc.
Contract: Cecil Field 163151
Lab Code: PEL
Case No.:
SAS No:
SDG No.: 2209178
Matrix: WATER
Lab Sample ID: 220917809
Lab File ID: 178-9.D
Sample wt/vol: 960
Units: ML
Date Received: 09/25/02
Concentrated Extract Volume: 1
Date Extracted: 09/26/02
Level:(low/med) LOW
Date Analyzed: 09/27/02
Time: 1915
PercentSolids: 0
decanted:
Dilution Factor: 1
Extraction: SEPF
Station ID: VEW-3
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

2/19/03

1

PAH ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name:	PEL Laboratories, Inc.	Contract:	Cecil Field 163151
			062VEW4Q302
Lab Code :	PEL Case No.	SAS No:	SDG No.: 2209178
Matrix:	WATER	Lab Sample ID:	220917810 Lab File ID: 178-10.D
Sample wt/vol:	940 Units: ML	Date Received:	09/25/02
Concentrated Extract Volume:	1	Date Extracted:	09/26/02
Level:(low/med)	LOW	Date Analyzed:	09/27/02 Time: 1950
PercentSolids:	0 decanted :	Dilution Factor:	1
Extraction:	SEPF	Station ID:	VEW-4 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

PAH 7/10/03

1

PAH ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

062VEW5Q302

Lab Name: PEL Laboratories, Inc.
Contract: Cecil Field 163151
Lab Code: PEL
Case No.
SAS No:
SDG No.: 2209178
Matrix: WATER
Lab Sample ID: 220917811
Lab File ID: 178-11.D
Sample wt/vol: 950
Units: ML
Date Received: 09/25/02
Concentrated Extract Volume: 1
Date Extracted: 09/26/02
Level:(low/med) LOW
Date Analyzed: 09/27/02
Time: 2024
PercentSolids: 0
decanted:
Dilution Factor: 1
Extraction: SEPF
Station ID: VEW-5
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

7/19/03

081002 1343

Form I

1

PAH ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

062VEW8Q302

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field 163151

Lab Code: PEL Case No. SAS No: SDG No.: 2209178

Matrix: WATER Lab Sample ID: 220917812 Lab File ID: 178-12.D

Sample wt/vol: 940 Units: ML Date Received: 09/25/02

Concentrated Extract Volume: 1 Date Extracted: 09/26/02

Level:(low/med) LOW Date Analyzed: 09/27/02 Time: 2059

PercentSolids: 0 decanted: Dilution Factor: 1

Extraction: SEPF Station ID: VEW-6 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

WAH 2/19/02

1

PAH ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

Lab Name:	PEL Laboratories, Inc.	Contract:	Cecil Field 163151
			062VEW7Q302
Lab Code :	PEL	Case No.	
SAS No:		SDG No.:	2209178
Matrix:	WATER	Lab Sample ID:	220917813
Lab File ID:	178-13.D		
Sample wt/vol:	940	Units:	ML
Date Received:	09/25/02		
Concentrated Extract Volume:	1	Date Extracted:	09/26/02
Level:(low/med)	LOW	Date Analyzed:	09/27/02
Time:	2133		
PercentSolids:	0	decanted :	
Dilution Factor:	1		
Extraction:	SEPF	Station ID:	VEW-7
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

2/19/02

1

PAH ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

062VEW8Q302

Lab Name: PEL Laboratories, Inc.

Contract: Cecil Field 163151

Lab Code : PEL Case No.

SAS No: SDG No.: 2209178

Matrix: WATER

Lab Sample ID: 220917814 Lab File ID: 178-14.D

Sample wt/vol: 940 Units: ML

Date Received: 09/25/02

Concentrated Extract Volume: 1

Date Extracted: 09/26/02

Level:(low/med) LOW

Date Analyzed: 09/27/02 Time: 2208

PercentSolids: 0 decanted :

Dilution Factor: 1

Extraction: SEPF

Station ID: VEW-8 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

081002 1343

Form I

1

PAH ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

062DUPQ302

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field 163151

Lab Code : PEL Case No. SAS No: SDG No.: 2209178

Matrix: WATER Lab Sample ID: 220917815 Lab File ID: 178-15.D

Sample wt/vol: 960 Units: ML Date Received: 09/25/02

Concentrated Extract Volume: 1 Date Extracted: 09/26/02

Level:(low/med) LOW Date Analyzed: 09/27/02 Time: 2243

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

7/19/02

PAH ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062EQBQ302

Lab Name: PEL Laboratories, Inc.
Contract: Cecil Field 163151
Lab Code: PEL
Case No.:
SAS No:
SDG No.: 2209178
Matrix: WATER
Lab Sample ID: 220917816
Lab File ID: 178-16.D
Sample wt/vol: 940 Units: ML
Date Received: 09/25/02
Concentrated Extract Volume: 1
Date Extracted: 09/26/02
Level:(low/med) LOW
Date Analyzed: 09/27/02 Time: 2317
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

MAH 2/19/03

Validated Chemical Test Results from Work Order C207404

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

MAS 2/19/03

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

WAB 2/19/03

Validated Chemical Test Results from Work Order C207405

SEVERN TRENT SERVICES

STL Pensacola

LOG NO: C2-07405
Received: 18 JUL 02
Reported: 29 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, CECIL FIELD DAY TANK 1
Sampled By: Client
Code: 155320730

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , AIR SAMPLES	DATE/ TIME SAMPLED	SDG#
07405-1	062-SVE-E-A-0715-02-30	07-15-02/14:10	207405

PARAMETER	07405-1
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

NAK 2/19/03

SEVERN TRENT SERVICES

STL Pensacola
LOG NO: C2-07405
Received: 18 JUL 02
Reported: 29 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.: CTO-0062
Project: CTO-0062, CECIL FIELD DAY TANK 1
Sampled By: Client
Code: 155320730

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , AIR SAMPLES	DATE/ TIME SAMPLED	SDG#
07405-1	062-SVE-E-A-0715-02-30	07-15-02/14:10	207405

PARAMETER	07405-1
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	100 %
Surrogate - Toluene-d8	99 %
Surrogate - 4-Bromofluorobenzene	96 %
Dilution Factor	1

MAS 2/9/03

Validated Chemical Test Results from Work Order C208603

SEVERN TRENT SERVICES

STL Pensacola

LOG NO: C2-08603
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, CECIL FIELD DAY TANK 1
Sampled By: Client
Code: 08592096

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , AIR SAMPLES	DATE/ TIME SAMPLED
08603-1	062-SVE-E-A-0821-02-31	08-21-02/15:30

PARAMETER	08603-1
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

MAS 2/19/03

SEVERN TRENT SERVICES

STL Pensacola

LOG NO: C2-08603
Received: 27 AUG 02
Reported: 06 SEP 02

Client PO. No.: 2916

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

Contract No.: CT0-0062
Project: CTO-0062, CECIL FIELD DAY TANK 1
Sampled By: Client
Code: 08592096

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , AIR SAMPLES	DATE/ TIME SAMPLED
08603-1	062-SVE-E-A-0821-02-31	08-21-02/15:30

PARAMETER	08603-1
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	0.07J
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	0.070U
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	0.06J
1,3,5-Trimethylbenzene, mg/m3	0.27
Vinyl chloride, mg/m3	0.070U
o-Xylene, mg/m3	0.08
m&p-Xylene, mg/m3	0.09J
Surrogate - 1,2-Dichloroethane-d4	107 %
Surrogate - Toluene-d8	105 %
Surrogate - 4-Bromofluorobenzene	105 %

MAS 2/19/03

Validated Chemical Test Results from Work Order C208604

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

7/19/03

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 , 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 %

Validated Chemical Test Results from Work Order C209256

SEVERN TRENT STL

LOG NO: C2-09256
Received: 12 SEP 02
Reported: 25 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, CECIL FIELD DAY TANK 1
Sampled By: Client
Code: 15282104

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , AIR SAMPLES	DATE/ TIME SAMPLED
09256-1	062-SVE-E-A-0909-02-32	09-09-02/14:50

PARAMETER	09256-1
Volatile Organic Compounds in Air (MOD-TO14)	
Benzene, mg/m3	0.069U
Bromodichloromethane, mg/m3	0.069U
Bromoform, mg/m3	0.069U
Bromomethane (Methyl bromide), mg/m3	0.069U
Carbon disulfide, mg/m3	0.069U
Carbon tetrachloride, mg/m3	0.069U
Chlorobenzene, mg/m3	0.069U
Chloroethane, mg/m3	0.069U
Chloroform, mg/m3	0.069U
Chloromethane (Methyl chloride), mg/m3	0.069U
2-Chlorotoluene, mg/m3	0.069U
Dibromochloromethane, mg/m3	0.069U
1,2-Dibromoethane (EDB), mg/m3	0.069U
1,2-Dichlorobenzene, mg/m3	0.069U
1,3-Dichlorobenzene, mg/m3	0.069U
1,4-Dichlorobenzene, mg/m3	0.069U
trans-1,4-Dichloro-2-butene, mg/m3	0.069U
Dichlorodifluoromethane, mg/m3	0.069U
1,1-Dichloroethane, mg/m3	0.069U
1,2-Dichloroethane, mg/m3	0.069U
1,1-Dichloroethene, mg/m3	0.069U
cis-1,2-Dichloroethene, mg/m3	0.069U
trans-1,2-Dichloroethene, mg/m3	0.069U
1,2-Dichloropropane, mg/m3	0.069U
cis-1,3-Dichloropropene, mg/m3	0.069U

MAK 2/19/03

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SEVERN TRENT STL

LOG NO: C2-09256
Received: 12 SEP 02
Reported: 25 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, CECIL FIELD DAY TANK 1
Sampled By: Client
Code: 15282104

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , AIR SAMPLES	DATE/ TIME SAMPLED
09256-1	062-SVE-E-A-0909-02-32	09-09-02/14:50

PARAMETER	09256-1
trans-1,3-Dichloropropene, mg/m3	0.069U
Dichlorotetrafluoroethane, mg/m3	0.069U
Ethylbenzene, mg/m3	0.069U
Hexane, mg/m3	0.099
4-Ethyltoluene, mg/m3	0.069U
Hexachlorobutadiene, mg/m3	0.069U
Methylene chloride (Dichloromethane), mg/m3	0.069U
Methyl t-butyl ether (MTBE), mg/m3	0.069U
Styrene, mg/m3	0.069U
1,1,2,2-Tetrachloroethane, mg/m3	0.069U
Tetrachloroethene, mg/m3	0.069U
Toluene, mg/m3	0.069U
1,2,4-Trichlorobenzene, mg/m3	0.069U
1,1,1-Trichloroethane, mg/m3	0.069U
1,1,2-Trichloroethane, mg/m3	0.069U
Trichloroethene, mg/m3	0.069U
Trichlorofluoromethane, mg/m3	0.069U
1,1,2-Trichloro-1,2,2-trifluoroethane, mg/m3	0.069U
1,2,4-Trimethylbenzene, mg/m3	0.069U
1,3,5-Trimethylbenzene, mg/m3	0.18
Vinyl chloride, mg/m3	0.069U
o-Xylene, mg/m3	0.069U
m&p-Xylene, mg/m3	0.14U
Surrogate - 1,2-Dichloroethane-d4	113 %
Surrogate - Toluene-d8	101 %
Surrogate - 4-Bromofluorobenzene	97 %

2/19/03

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Validated Chemical Test Results from Work Order C209257

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
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

MAB 2/19/03

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SEVERN TRENT STL

LOG NO: C2-09257
Received: 12 SEP 02
Reported: 24 SEP 02

Client PO. No.: 2916

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

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	Qual	Code
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	J	<
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	0.070U		
Surrogate - 1,2-Dichloroethane-d4	0.14U		
Surrogate - Toluene-d8	106 %		
Surrogate - 4-Bromofluorobenzene	101 %		
	97 %		

2/19/03

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Validated Chemical Test Results
from Work Order L0209285

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8021B Preparatory Method: 8021B\5030B AAB # : WG125494

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF9-2S-03-02-21 Lab Sample ID: L0209285-01 Matrix: Water

% Solids: 0 Initial Calibration ID: HP5 20-FEB-2002

Date Received: 17-SEP-02 Date Extracted: Date Analyzed: 17-SEP-02 22:42

Concentration Units: ug/L File ID: 5G14743

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Benzene	0.500	1.00	0.756	1	J
Ethylbenzene	0.500	1.00	19.0	1	
Methyl tert-butyl ether	0.500	1.00	0.500	1	U
Toluene	0.500	1.00	0.500	1	U
Xylenes, Total	0.500	1.00	11.7	1	

Surrogate	Recovery	Control Limits	Qualifier
a,a,a-Trifluorotoluene	116	70 - 130	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

NAB 2/8/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8021B Preparatory Method: 8021B\5030B AAB # : WQ125494

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF9-3S-Q3-02-21 Lab Sample ID: L0209285-02 Matrix: Water

% Solids: 0 Initial Calibration ID: HP5 20-FEB-2002

Date Received: 17-SEP-02 Date Extracted: Date Analyzed: 17-SEP-02 16:56

Concentration Units: ug/L File ID: 5G14733

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Benzene	0.500	1.00	0.500	1	U
Ethylbenzene	0.500	1.00	3.31	1	
Methyl tert-butyl ether	0.500	1.00	0.500	1	U
Toluene	0.500	1.00	1.74	1	
Xylenes, Total	0.500	1.00	3.00	1	

Surrogate	Recovery	Control Limits	Qualifier
a,a,a-Trifluorotoluene	109	70 - 130	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

AAB 2/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8021B Preparatory Method: 8021B\5030B AAB # : WG125494

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF9-5S-03-02-21 Lab Sample ID: L0209285-03 Matrix: Water

% Solids: 0 Initial Calibration ID: HP5 20-FEB-2002

Date Received: 17-SEP-02 Date Extracted: Date Analyzed: 17-SEP-02 17:30

Concentration Units: ug/L File ID: 5G14734

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Benzene	0.500	1.00	0.500	1	U
Ethylbenzene	0.500	1.00	0.500	1	U
Methyl tert-butyl ether	0.500	1.00	0.500	1	U
Toluene	0.500	1.00	0.500	1	U
Xylenes, Total	0.500	1.00	0.500	1	U

Surrogate	Recovery	Control Limits	Qualifier
a,a,a-Trifluorotoluene	105	70 - 130	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

2/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8021B Preparatory Method: 8021B\5030B AAB # : WG125494

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF9-7D-03-02-21 Lab Sample ID: L0209285-04 Matrix: Water

% Solids: 0 Initial Calibration ID: HP5 20-FEB-2002

Date Received: 17-SEP-02 Date Extracted: Date Analyzed: 17-SEP-02 18:05

Concentration Units: ug/L File ID: 5G14735

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Benzene	0.500	1.00	0.500	1	U
Ethylbenzene	0.500	1.00	0.500	1	U
Methyl tert-butyl ether	0.500	1.00	0.500	1	U
Toluene	0.500	1.00	0.500	1	U
Xylenes, Total	0.500	1.00	0.500	1	U

Surrogate	Recovery	Control Limits	Qualifier
a,a,a-Trifluorotoluene	105	70 - 130	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

2/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8021B Preparatory Method: 8021B\5030B AAB # : WG125494

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF9-7D-Q3-02-21 Lab Sample ID: L0209285-05 Matrix: Water

% Solids: 0 Initial Calibration ID: HP5 20-FEB-2002

Date Received: 17-SEP-02 Date Extracted: Date Analyzed: 17-SEP-02 18:39

Concentration Units: ug/L File ID: 5G14736

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Benzene	0.500	1.00	19.1	1	
Ethylbenzene	0.500	1.00	19.8	1	
Methyl tert-butyl ether	0.500	1.00	17.5	1	
Toluene	0.500	1.00	19.4	1	
Xylenes, Total	0.500	1.00	57.5	1	

Surrogate	Recovery	Control Limits	Qualifier
a,a,a-Trifluorotoluene	104	70 - 130	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAH 1/9/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8021B Preparatory Method: 8021B\5030B AAB # : WG125494

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF9-7D-03-02-21 Lab Sample ID: L0209285-06 Matrix: Water

% Solids: 0 Initial Calibration ID: HP5 20-FEB-2002

Date Received: 17-SEP-02 Date Extracted: Date Analyzed: 17-SEP-02 19:14

Concentration Units: ug/L File ID: 5G14737

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Benzene	0.500	1.00	18.7	1	
Ethylbenzene	0.500	1.00	19.3	1	
Methyl tert-butyl ether	0.500	1.00	18.4	1	
Toluene	0.500	1.00	19.1	1	
Xylenes, Total	0.500	1.00	56.2	1	

Surrogate	Recovery	Control Limits	Qualifier
a,a,a-Trifluorotoluene	105	70 - 130	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

2/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8021B Preparatory Method: 8021B\5030B AAB # : WG125494

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF9-9S-Q3-02-21 Lab Sample ID: L0209285-07 Matrix: Water

% Solids: 0 Initial Calibration ID: HP5 20-FEB-2002

Date Received: 17-SEP-02 Date Extracted: Date Analyzed: 17-SEP-02 19:49

Concentration Units: ug/L File ID: 5G14738

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Benzene	0.500	1.00	0.500	1	U
Ethylbenzene	0.500	1.00	9.79	1	
Methyl tert-butyl ether	0.500	1.00	0.500	1	U
Toluene	0.500	1.00	0.500	1	U
Xylenes, Total	0.500	1.00	9.29	1	

Surrogate	Recovery	Control Limits	Qualifier
a,a,a-Trifluorotoluene	109	70 - 130	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MHS 2/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8021B Preparatory Method: 8021B\5030B AAB # : WG125494

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-9DUP-03-02-21 Lab Sample ID: L0209285-08 Matrix: Water

% Solids: 0 Initial Calibration ID: HP5 20-FEB-2002

Date Received: 17-SEP-02 Date Extracted: Date Analyzed: 17-SEP-02 20:23

Concentration Units: ug/L File ID: 5G14739

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Benzene	0.500	1.00	0.614	1	J
Ethylbenzene	0.500	1.00	8.54	1	
Methyl tert-butyl ether	0.500	1.00	0.500	1	U
Toluene	0.500	1.00	0.500	1	U
Xylenes, Total	0.500	1.00	7.78	1	

Surrogate	Recovery	Control Limits	Qualifier
a,a,a-Trifluorotoluene	112	70 - 130	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAS 9/19/02

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8021B Preparatory Method: 8021B\5030B AAB # : WG125494

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-9EOB-03-02-21 Lab Sample ID: L0209285-09 Matrix: Water

% Solids: 0 Initial Calibration ID: HP5 20-FEB-2002

Date Received: 17-SEP-02 Date Extracted: Date Analyzed: 17-SEP-02 21:32

Concentration Units: ug/L File ID: 5G14741

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Benzene	0.500	1.00	0.500	1	U
Ethylbenzene	0.500	1.00	0.500	1	U
Methyl tert-butyl ether	0.500	1.00	0.500	1	U
Toluene	0.500	1.00	0.500	1	U
Xylenes, Total	0.500	1.00	0.500	1	U

Surrogate	Recovery	Control Limits	Qualifier
a,a,a-Trifluorotoluene	104	70 - 130	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAS 7/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8021B Preparatory Method: 8021B\5030B AAB # : WQ125494

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-9TB-Q3-02-21 Lab Sample ID: L0209285-10 Matrix: Water

% Solids: 0 Initial Calibration ID: HP5 20-FEB-2002

Date Received: 17-SEP-02 Date Extracted: Date Analyzed: 17-SEP-02 22:07

Concentration Units: ug/L File ID: 5G14742

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Benzene	0.500	1.00	0.500	1	U
Ethylbenzene	0.500	1.00	0.500	1	U
Methyl tert-butyl ether	0.500	1.00	0.500	1	U
Toluene	0.500	1.00	0.500	1	U
Xylenes, Total	0.500	1.00	0.500	1	U

Surrogate	Recovery	Control Limits	Qualifier
a,a,a-Trifluorotoluene	101	70 - 130	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

2/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8310 Preparatory Method: 8310\3510C AAB # : WG125709

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF9-2S-Q3-02-21 Lab Sample ID: L0209285-01 Matrix: Water

% Solids: 0 Initial Calibration ID: HPLC4 20-SEP-2002

Date Received: 17-SEP-02 Date Extracted: 18-SEP-02 Date Analyzed: 21-SEP-02 18:45

Concentration Units: ug/L File ID:4L003582.F

Qual Code

Analyte	MDL	RL	Concentration	Dilution	Qualifier		
1-Methylnaphthalene	0.393	1.1	0.393	1	U	UJ	L
2-Methylnaphthalene	0.365	1.1	0.730	1	J	J	
Acenaphthene	0.451	1.1	0.451	1	U	UJ	
Acenaphthylene	0.382	1.1	0.382	1	U		
Anthracene	0.310	1.1	0.310	1	U		
Benzo(a)anthracene	0.0326	0.22	0.0326	1	U		
Benzo(a)pyrene	0.0576	0.22	0.0576	1	U		
Benzo(b)fluoranthene	0.0370	0.22	0.0510	1	J	UJ	F
Benzo(g,h,i)perylene	0.0543	0.22	0.0980	1	J	J	
Benzo(k)fluoranthene	0.0783	0.22	0.0783	1	U	UJ	
Chrysene	0.0261	0.22	0.0261	1	U		
Dibenzo(a,h)anthracene	0.0837	0.22	0.0837	1	U		
Fluoranthene	0.0543	0.22	0.0543	1	U		
Fluorene	0.608	1.1	0.608	1	U		
Indeno(1,2,3-cd)pyrene	0.0870	0.22	0.0870	1	U		
Naphthalene	0.390	1.1	1.50	1		J	
Phenanthrene	0.312	1.1	0.312	1	U	UJ	
Pyrene	0.0739	0.22	0.0850	1	J	J	

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

NAB 2/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8310 Preparatory Method: 8310\3510C AAB # : WG125709

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF9-28-Q3-02-21 Lab Sample ID: L0209285-01 Matrix: Water

% Solids: 0 Initial Calibration ID: HPLC4 20-SEP-2002

Date Received: 17-SEP-02 Date Extracted: 18-SEP-02 Date Analyzed: 21-SEP-02 18:45

Concentration Units: % Recovery File ID: 4L003582.F

Analyte	MDL	RL	Concentration	Dilution	Qualifier

Surrogate	Recovery	Control Limits	Qualifier
p-terphenyl-d14	37.3	40 - 132	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAH 2/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8310 Preparatory Method: 8310\3510C AAB # : WG125709

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF9-3S-Q3-02-21 Lab Sample ID: L0209285-02 Matrix: Water

% Solids: 0 Initial Calibration ID: HPLC4 20-SEP-2002

Date Received: 17-SEP-02 Date Extracted: 18-SEP-02 Date Analyzed: 21-SEP-02 19:42

Concentration Units: ug/L File ID: 4L003583.R

Qual Code

Analyte	MDL	RL	Concentration	Dilution	Qualifier		
1-Methylnaphthalene	0.385	1.1	0.385	1	U	UJ	L
2-Methylnaphthalene	0.357	1.1	0.380	1	J	J	
Acenaphthene	0.441	1.1	0.441	1	U	UJ	
Acenaphthylene	0.373	1.1	0.373	1	U		
Anthracene	0.303	1.1	0.303	1	U		
Benzo(a)anthracene	0.0319	0.21	0.0319	1	U		
Benzo(a)pyrene	0.0564	0.21	0.0564	1	U		
Benzo(b)fluoranthene	0.0362	0.21	0.180	1	J	UJ	F
Benzo(g,h,i)perylene	0.0532	0.21	0.0532	1	U	UJ	
Benzo(k)fluoranthene	0.0766	0.21	0.0766	1	U		
Chrysene	0.0255	0.21	0.0255	1	U		
Dibenzo(a,h)anthracene	0.0819	0.21	0.0819	1	U		
Fluoranthene	0.0532	0.21	0.0532	1	U		
Fluorene	0.595	1.1	0.595	1	U		
Indeno(1,2,3-cd)pyrene	0.0851	0.21	0.0851	1	U		
Naphthalene	0.382	1.1	0.382	1	U		
Phenanthrene	0.305	1.1	0.305	1	U		
Pyrene	0.0723	0.21	0.0750	1	J	J	

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MH 2/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8310 Preparatory Method: 8310\3510C AAB # : WG125709

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF9-3S-Q3-02-21 Lab Sample ID: L0209285-02 Matrix: Water

% Solids: 0 Initial Calibration ID: HPLC4 20-SEP-2002

Date Received: 17-SEP-02 Date Extracted: 18-SEP-02 Date Analyzed: 21-SEP-02 19:42

Concentration Units: % Recovery File ID: 4L003583.R

Analyte	MDL	RL	Concentration	Dilution	Qualifier

Surrogate	Recovery	Control Limits	Qualifier
p-terphenyl-d14	33.1	40 - 132	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

2/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8310 Preparatory Method: 8310\3510C AAB # : WG125709

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF9-5S-Q3-02-21 Lab Sample ID: L0209285-03 Matrix: Water

% Solids: 0 Initial Calibration ID: HPLC4 20-SEP-2002

Date Received: 17-SEP-02 Date Extracted: 18-SEP-02 Date Analyzed: 21-SEP-02 20:38

Concentration Units: ug/L File ID: 4L003584.R

Qual Code

Analyte	MDL	RL	Concentration	Dilution	Qualifier		
1-Methylnaphthalene	0.396	1.1	0.396	1	U	UJ	L
2-Methylnaphthalene	0.367	1.1	0.367	1	U		
Acenaphthene	0.454	1.1	0.454	1	U		
Acenaphthylene	0.384	1.1	0.384	1	U		
Anthracene	0.311	1.1	0.311	1	U		
Benzo(a)anthracene	0.0328	0.22	0.0328	1	U		
Benzo(a)pyrene	0.0579	0.22	0.0579	1	U		
Benzo(b)fluoranthene	0.0372	0.22	0.0372	1	U		
Benzo(g,h,i)perylene	0.0546	0.22	0.0546	1	U		
Benzo(k)fluoranthene	0.0787	0.22	0.0787	1	U		
Chrysene	0.0262	0.22	0.0262	1	U		
Dibenzo(a,h)anthracene	0.0842	0.22	0.0842	1	U		
Fluoranthene	0.0546	0.22	0.0546	1	U		
Fluorene	0.611	1.1	0.611	1	U		
Indeno(1,2,3-cd)pyrene	0.0874	0.22	0.0874	1	U		
Naphthalene	0.392	1.1	0.392	1	U		
Phenanthrene	0.314	1.1	0.314	1	U		
Pyrene	0.0743	0.22	0.0743	1	U		

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAH 2/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8310 Preparatory Method: 8310\3510C AAB # : WG125709

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF9-5S-Q3-02-21 Lab Sample ID: L0209285-03 Matrix: Water

% Solids: 0 Initial Calibration ID: HPLC4 20-SEP-2002

Date Received: 17-SEP-02 Date Extracted: 18-SEP-02 Date Analyzed: 21-SEP-02 20:38

Concentration Units: % Recovery File ID: 4L003584.R

Analyte	MDL	RL	Concentration	Dilution	Qualifier

Surrogate	Recovery	Control Limits	Qualifier
p-terphenyl-d14	33.7	40 - 132	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAB 2/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8310 Preparatory Method: 8310\3510C AAB # : WG125709

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF9-7D-Q3-02-21 Lab Sample ID: L0209285-04 Matrix: Water

% Solids: 0 Initial Calibration ID: HPLC4 20-SEP-2002

Date Received: 17-SEP-02 Date Extracted: 18-SEP-02 Date Analyzed: 21-SEP-02 21:35

Concentration Units: ug/L File ID: 4L003585.R

Qual Calc

Analyte	MDL	RL	Concentration	Dilution	Qualifier		
1-Methylnaphthalene	0.362	1.0	0.362	1	U	UJ	L
2-Methylnaphthalene	0.336	1.0	0.336	1	U		
Acenaphthene	0.415	1.0	0.415	1	U		
Acenaphthylene	0.351	1.0	0.351	1	U		
Anthracene	0.285	1.0	0.285	1	U		
Benzo(a)anthracene	0.0300	0.20	0.0300	1	U		
Benzo(a)pyrene	0.0530	0.20	0.0530	1	U		
Benzo(b)fluoranthene	0.0340	0.20	0.0970	1	J	UJ	LF
Benzo(g,h,i)perylene	0.0500	0.20	0.0500	1	U	UJ	L
Benzo(k)fluoranthene	0.0720	0.20	0.0720	1	U		
Chrysene	0.0240	0.20	0.0240	1	U		
Dibenzo(a,h)anthracene	0.0770	0.20	0.0770	1	U		
Fluoranthene	0.0500	0.20	0.0500	1	U		
Fluorene	0.559	1.0	0.559	1	U		
Indeno(1,2,3-cd)pyrene	0.0800	0.20	0.0800	1	U		
Naphthalene	0.359	1.0	0.359	1	U		
Phenanthrene	0.287	1.0	0.287	1	U		
Pyrene	0.0680	0.20	0.0680	1	U		

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

7/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8310 Preparatory Method: 8310\3510C AAB # : WG125709

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF9-7D-Q3-02-21 Lab Sample ID: L0209285-04 Matrix: Water

% Solids: 0 Initial Calibration ID: HPLC4 20-SEP-2002

Date Received: 17-SEP-02 Date Extracted: 18-SEP-02 Date Analyzed: 21-SEP-02 21:35

Concentration Units: % Recovery File ID:4L003585.R

Analyte	MDL	RL	Concentration	Dilution	Qualifier

Surrogate	Recovery	Control Limits	Qualifier
p-terphenyl-d14	41.1	40 - 132	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAH 2/4/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8310 Preparatory Method: 8310\3510C AAB # : WG125709

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF9-9S-Q3-02-21 Lab Sample ID: L0209285-07 Matrix: Water

% Solids: 0 Initial Calibration ID: HPLC4 20-SEP-2002

Date Received: 17-SEP-02 Date Extracted: 18-SEP-02 Date Analyzed: 22-SEP-02 00:25

Concentration Units: ug/L File ID: 4L003588.R

Analyte	MDL	RL	Concentration	Dilution	Qualifier	Qual	Code
1-Methylnaphthalene	0.377	1.0	1.30	1		J	L
2-Methylnaphthalene	0.350	1.0	3.40	1		J	L
Acenaphthene	0.432	1.0	0.432	1	U	UJ	L
Acenaphthylene	0.366	1.0	0.366	1	U		
Anthracene	0.297	1.0	0.297	1	U		
Benzo(a)anthracene	0.0313	0.21	0.100	1	J	UJ	LF
Benzo(a)pyrene	0.0552	0.21	0.0552	1	U	UJ	L
Benzo(b)fluoranthene	0.0354	0.21	0.130	1	J	UJ	LF
Benzo(g,h,i)perylene	0.0521	0.21	0.0680	1	J	J	L
Benzo(k)fluoranthene	0.0750	0.21	0.0750	1	U	UJ	L
Chrysene	0.0250	0.21	0.0250	1	U		
Dibenzo(a,h)anthracene	0.0802	0.21	0.0802	1	U		
Fluoranthene	0.0521	0.21	0.0521	1	U		
Fluorene	0.582	1.0	0.582	1	U		
Indeno(1,2,3-cd)pyrene	0.0833	0.21	0.0833	1	U		
Naphthalene	0.374	1.0	13.0	1		J	L
Phenanthrene	0.299	1.0	0.299	1	U	UJ	L
Pyrene	0.0708	0.21	0.0840	1	J	J	L

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAH 2/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8310 Preparatory Method: 8310\3510C AAB # : WQ125709

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF9-9S-Q3-02-21 Lab Sample ID: L0209285-07 Matrix: Water

% Solids: 0 Initial Calibration ID: HPLC4 20-SEP-2002

Date Received: 17-SEP-02 Date Extracted: 18-SEP-02 Date Analyzed: 22-SEP-02 00:25

Concentration Units: % Recovery File ID: 4L003588.R

Analyte	MDL	RL	Concentration	Dilution	Qualifier

Surrogate	Recovery	Control Limits	Qualifier
p-terphenyl-d14	38.5	40 - 132	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAH 2/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8310 Preparatory Method: 8310\3510C AAB # : WG125709

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-9DUP-03-02-21 Lab Sample ID: L0209285-08 Matrix: Water

% Solids: 0 Initial Calibration ID: HPLC4 20-SEP-2002

Date Received: 17-SEP-02 Date Extracted: 18-SEP-02 Date Analyzed: 22-SEP-02 01:21

Concentration Units: ug/L File ID: 4L003589.R

Analyte	MDL	RL	Concentration	Dilution	Qualifier	Qual Calc
1-Methylnaphthalene	0.381	1.1	1.40	1		J L
2-Methylnaphthalene	0.354	1.1	3.50	1		J L
Acenaphthene	0.437	1.1	0.437	1	U	UJ L
Acenaphthylene	0.369	1.1	0.369	1	U	
Anthracene	0.300	1.1	0.300	1	U	
Benzo(a)anthracene	0.0316	0.21	0.0790	1	J	UJ LF
Benzo(a)pyrene	0.0558	0.21	0.0558	1	U	UJ L
Benzo(b)fluoranthene	0.0358	0.21	0.0680	1	J	UJ LF
Benzo(g,h,i)perylene	0.0526	0.21	0.0820	1	J	J L
Benzo(k)fluoranthene	0.0758	0.21	0.0758	1	U	UJ L
Chrysene	0.0253	0.21	0.0253	1	U	
Dibenzo(a,h)anthracene	0.0811	0.21	0.0811	1	U	
Fluoranthene	0.0526	0.21	0.0526	1	U	
Fluorene	0.588	1.1	0.588	1	U	
Indeno(1,2,3-cd)pyrene	0.0842	0.21	0.0842	1	U	
Naphthalene	0.378	1.1	13.0	1		J L
Phenanthrene	0.302	1.1	0.302	1	U	UJ L
Pyrene	0.0716	0.21	0.0750	1	J	J L

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

2/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8310 Preparatory Method: 8310\3510C AAB # : WG125709

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-9DUP-Q3-02-21 Lab Sample ID: L0209285-08 Matrix: Water

% Solids: 0 Initial Calibration ID: HPLC4 20-SEP-2002

Date Received: 17-SEP-02 Date Extracted: 18-SEP-02 Date Analyzed: 22-SEP-02 01:21

Concentration Units: % Recovery File ID: 4L003589.R

Analyte	MDL	RL	Concentration	Dilution	Qualifier

Surrogate	Recovery	Control Limits	Qualifier
p-terphenyl-d14	41.0	40 - 132	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

2/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8310 Preparatory Method: 8310\3510C AAB # : WG125709

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-9EQB-Q3-02-21 Lab Sample ID: L0209285-09 Matrix: Water

% Solids: 0 Initial Calibration ID: HPLC4 20-SEP-2002

Date Received: 17-SEP-02 Date Extracted: 18-SEP-02 Date Analyzed: 22-SEP-02 03:15

Concentration Units: ug/L File ID: 4L003591.R

Qual Ck

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1-Methylnaphthalene	0.385	1.1	0.385	1	U
2-Methylnaphthalene	0.357	1.1	0.357	1	U
Acenaphthene	0.441	1.1	0.441	1	U
Acenaphthylene	0.373	1.1	0.373	1	U
Anthracene	0.303	1.1	0.303	1	U
Benzo(a)anthracene	0.0319	0.21	0.0780	1	J u F
Benzo(a)pyrene	0.0564	0.21	0.0564	1	U
Benzo(b)fluoranthene	0.0362	0.21	0.110	1	J u F
Benzo(g,h,i)perylene	0.0532	0.21	0.0532	1	U
Benzo(k)fluoranthene	0.0766	0.21	0.0766	1	U
Chrysene	0.0255	0.21	0.0255	1	U
Dibenzo(a,h)anthracene	0.0819	0.21	0.0819	1	U
Fluoranthene	0.0532	0.21	0.0532	1	U
Fluorene	0.595	1.1	0.595	1	U
Indeno(1,2,3-cd)pyrene	0.0851	0.21	0.0851	1	U
Naphthalene	0.382	1.1	0.382	1	U
Phenanthrene	0.305	1.1	0.305	1	U
Pyrene	0.0723	0.21	0.0723	1	U

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

DMH 2/14/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8310 Preparatory Method: 8310\3510C AAB # : WG125709

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-9EQB-Q3-02-21 Lab Sample ID: L0209285-09 Matrix: Water

% Solids: 0 Initial Calibration ID: HPLC4 20-SEP-2002

Date Received: 17-SEP-02 Date Extracted: 18-SEP-02 Date Analyzed: 22-SEP-02 03:15

Concentration Units: % Recovery File ID: 4L003591.R

Analyte	MDL	RL	Concentration	Dilution	Qualifier

Surrogate	Recovery	Control Limits	Qualifier
p-terphenyl-d14	43.6	40 - 132	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

2/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8015 MOD Preparatory Method: 8015 MOD\3510C AAB # : WG126401

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF9-2S-Q3-02-21 Lab Sample ID: L0209285-01 Matrix: Water

% Solids: 0 Initial Calibration ID: HP2 30-SEP-2002

Date Received: 17-SEP-02 Date Extracted: 23-SEP-02 Date Analyzed: 01-OCT-02 11:57

Concentration Units: ug/L File ID: 2G22282

Qual Code

Analyte	MDL	RL	Concentration	Dilution	Qualifier
TRPH-Florida PRO	266	532	851	1	u F

Surrogate	Recovery	Control Limits	Qualifier
o-Terphenyl	75.0	49 - 174	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAB 2/14/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8015 MOD Preparatory Method: 8015 MOD\3510C AAB # : WG126401

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF9-3S-Q3-02-21 Lab Sample ID: L0209285-02 Matrix: Water

% Solids: 0 Initial Calibration ID: HP2 30-SEP-2002

Date Received: 17-SEP-02 Date Extracted: 23-SEP-02 Date Analyzed: 01-OCT-02 12:12

Concentration Units: ug/L File ID: 2G22283

Qual Code

Analyte	MDL	RL	Concentration	Dilution	Qualifier
TRPH-Florida PRO	259	518	674	1	U F

Surrogate	Recovery	Control Limits	Qualifier
o-Terphenyl	72.1	49 - 174	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAB
2/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8015 MOD Preparatory Method: 8015 MOD\3510C AAB # : WG126401

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF9-SS-Q3-02-21 Lab Sample ID: L0209285-03 Matrix: Water

% Solids: 0 Initial Calibration ID: HP2 30-SEP-2002

Date Received: 17-SEP-02 Date Extracted: 23-SEP-02 Date Analyzed: 01-OCT-02 12:27

Concentration Units: ug/L File ID: 2G22284

Qual Code

Analyte	MDL	RL	Concentration	Dilution	Qualifier
TRPH-Florida PRO	255	510	~~423~~ 510	1	J U F

Surrogate	Recovery	Control Limits	Qualifier
o-Terphenyl	66.1	49 - 174	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAS
2/14/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8015 MOD Preparatory Method: 8015 MOD\3510C AAB # : WG126401

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF9-7D-Q3-02-21 Lab Sample ID: L0209285-04 Matrix: Water

% Solids: 0 Initial Calibration ID: HP2 30-SEP-2002

Date Received: 17-SEP-02 Date Extracted: 23-SEP-02 Date Analyzed: 01-OCT-02 13:13

Concentration Units: ug/L File ID: 2G22287

Qual Code

Analyte	MDL	RL	Concentration	Dilution	Qualifier
TRPH-Florida PRO	263	526	~~420~~ 526	1	J U F

Surrogate	Recovery	Control Limits	Qualifier
o-Terphenyl	72.5	49 - 174	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KAS
2/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8015 MOD Preparatory Method: 8015 MOD\3510C AAB # : WG126401

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF9-9S-Q3-02-21 Lab Sample ID: L0209285-07 Matrix: Water

% Solids: 0 Initial Calibration ID: HP2 30-SEP-2002

Date Received: 17-SEP-02 Date Extracted: 23-SEP-02 Date Analyzed: 01-OCT-02 13:59

Concentration Units: ug/L File ID: 2G22290

Qual Code

Analyte	MDL	RL	Concentration	Dilution	Qualifier
TRPH-Florida PRO	266	532	697	1	U F

Surrogate	Recovery	Control Limits	Qualifier
o-Terphenyl	76.9	49 - 174	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MHS 2/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8015 MOD Preparatory Method: 8015 MOD\3510C AAB # : WG126401

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-9DUP-03-02-21 Lab Sample ID: L0209285-08 Matrix: Water

% Solids: 0 Initial Calibration ID: HP2 30-SEP-2002

Date Received: 17-SEP-02 Date Extracted: 23-SEP-02 Date Analyzed: 01-OCT-02 14:15

Concentration Units: ug/L File ID: 2G22291

Qual Code

Analyte	MDL	RL	Concentration	Dilution	Qualifier
TRPH-Florida PRO	255	510	633	1	U F

Surrogate	Recovery	Control Limits	Qualifier
o-Terpheny1	67.3	49 - 174	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

BAB 2/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8015 MOD Preparatory Method: 8015 MOD\3510C AAB # : WG126401

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-9EQB-03-02-21 Lab Sample ID: L0209285-09 Matrix: Water

% Solids: 0 Initial Calibration ID: HP2 30-SEP-2002

Date Received: 17-SEP-02 Date Extracted: 23-SEP-02 Date Analyzed: 01-OCT-02 14:30

Concentration Units: ug/L File ID: 2G22292

Qual Code

Analyte	MDL	RL	Concentration	Dilution	Qualifier
TRPH-Florida PRO	272	543	~~417~~ 543	1	J U F

Surrogate	Recovery	Control Limits	Qualifier
o-Terphenyl	73.7	49 - 174	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAB 2/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 9056 Preparatory Method: 9056 AAB # : WG125511

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF9-2S-Q3-02-21 Lab Sample ID: L0209285-01 Matrix: Water

% Solids: 0 Initial Calibration ID: IC2 17-SEP-02

Date Received: 17-SEP-02 Date Extracted: Date Analyzed: 17-SEP-02 16:44

Concentration Units: mg/L File ID: 091702.13

Qual Code

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Nitrate	0.0670	0.60	~~0.110~~ STET MB	1	J U F
Nitrite	0.0610	0.40	0.0610	1	U
Phosphate	0.163	1.0	0.163	1	U

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

DAS 7/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 9056 Preparatory Method: 9056 AAB # : WG125511

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF9-3S-03-02-21 Lab Sample ID: L0209285-02 Matrix: Water

% Solids: 0 Initial Calibration ID: IC2 17-SEP-02

Date Received: 17-SEP-02 Date Extracted: Date Analyzed: 17-SEP-02 16:56

Concentration Units: mg/L File ID: 091702.14

Qual Code

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Nitrate	0.0670	0.60	0.220	1	J U F
Nitrite	0.0610	0.40	0.0610	1	U
Phosphate	0.163	1.0	0.163	1	U

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAS 2/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 9056 Preparatory Method: 9056 AAB # : WG125511

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF9-SS-03-02-21 Lab Sample ID: L0209285-03 Matrix: Water

% Solids: 0 Initial Calibration ID: IC2 17-SEP-02

Date Received: 17-SEP-02 Date Extracted: Date Analyzed: 17-SEP-02 17:07

Concentration Units: mg/L File ID: 091702.15

Qual Code

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Nitrate	0.0670	0.60	0.130	1	J U F
Nitrite	0.0610	0.40	0.0610	1	U
Phosphate	0.163	1.0	0.163	1	U

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

NAS 1/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 9056 Preparatory Method: 9056 AAB # : WG125511

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF9-7D-Q3-02-21 Lab Sample ID: L0209285-04 Matrix: Water

% Solids: 0 Initial Calibration ID: IC2 17-SEP-02

Date Received: 17-SEP-02 Date Extracted: Date Analyzed: 17-SEP-02 17:19

Concentration Units: mg/L File ID: 091702.16

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Nitrate	0.0670	0.60	0.0670	1	U
Nitrite	0.0610	0.40	0.0610	1	U
Phosphate	0.163	1.0	0.163	1	U

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAG 2/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 9056 Preparatory Method: 9056 AAB # : WQ125511

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF9-9S-Q3-02-21 Lab Sample ID: L0209285-07 Matrix: Water

% Solids: 0 Initial Calibration ID: IC2 17-SEP-02

Date Received: 17-SEP-02 Date Extracted: Date Analyzed: 17-SEP-02 17:53

Concentration Units: mg/L File ID: 091702.19

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Nitrate	0.0670	0.60	0.0670	1	U
Nitrite	0.0610	0.40	0.0610	1	U
Phosphate	0.163	1.0	0.163	1	U

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAS 2/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 9056 Preparatory Method: 9056 AAB # : WG125511

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-9DUP-Q3-02-21 Lab Sample ID: L0209285-08 Matrix: Water

% Solids: 0 Initial Calibration ID: IC2 17-SEP-02

Date Received: 17-SEP-02 Date Extracted: Date Analyzed: 17-SEP-02 18:05

Concentration Units: mg/L File ID: 091702.20

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Nitrate	0.0670	0.60	0.0670	1	U
Nitrite	0.0610	0.40	0.0610	1	U
Phosphate	0.163	1.0	0.163	1	U

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAS 2/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 9056 Preparatory Method: 9056 AAB # : WG125511

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-9EQB-Q3-02-21 Lab Sample ID: L0209285-09 Matrix: Water

% Solids: 0 Initial Calibration ID: IC2 17-SEP-02

Date Received: 17-SEP-02 Date Extracted: Date Analyzed: 17-SEP-02 18:28

Concentration Units: mg/L File ID: 091702.22

Qual Code

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Nitrate	0.0670	0.60	0.110	1	J U F
Nitrite	0.0610	0.40	0.0610	1	U
Phosphate	0.163	1.0	0.163	1	U

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

DAH 7/19/03

Validated Chemical Test Results from Work Order L0209310

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8021B Preparatory Method: 8021B\5030B AAB # : WG125576

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-2S-Q3-02-20 Lab Sample ID: L0209310-01 Matrix: Water

% Solids: 0 Initial Calibration ID: HP5 20-FEB-2002

Date Received: 18-SEP-02 Date Extracted: _____ Date Analyzed: 18-SEP-02 20:14

Concentration Units: ug/L File ID: 5G14762

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Benzene	0.500	1.00	0.500	1	U
Ethylbenzene	0.500	1.00	0.500	1	U
Methyl tert-butyl ether	0.500	1.00	100	1	
Toluene	0.500	1.00	0.500	1	U
Xylenes, Total	0.500	1.00	0.500	1	U

Surrogate	Recovery	Control Limits	Qualifier
a,a,a-Trifluorotoluene	112	70 - 130	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAS 2/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8021B Preparatory Method: 8021B\5030B AAB # : WG125576

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-7I-Q3-02-20 Lab Sample ID: L0209310-02 Matrix: Water

% Solids: 0 Initial Calibration ID: HP5 20-FEB-2002

Date Received: 18-SEP-02 Date Extracted: Date Analyzed: 18-SEP-02 20:49

Concentration Units: ug/L File ID: 5G14763

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Benzene	10.0	20.0	432	20	
Ethylbenzene	10.0	20.0	86.6	20	
Methyl tert-butyl ether	10.0	20.0	3640	20	
Toluene	10.0	20.0	90.2	20	
Xylenes, Total	10.0	20.0	484	20	

Surrogate	Recovery	Control Limits	Qualifier
a,a,a-Trifluorotoluene	106	70 - 130	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAS 2/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8021B Preparatory Method: 8021B\5030B AAB # : WG125576

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-9I-Q3-02-20 Lab Sample ID: L0209310-03 Matrix: Water

% Solids: 0 Initial Calibration ID: HP5 20-FEB-2002

Date Received: 18-SEP-02 Date Extracted: Date Analyzed: 18-SEP-02 21:23

Concentration Units: ug/L File ID: 5G14764

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Benzene	0.500	1.00	0.500	1	U
Ethylbenzene	0.500	1.00	0.500	1	U
Methyl tert-butyl ether	0.500	1.00	0.500	1	U
Toluene	0.500	1.00	0.500	1	U
Xylenes, Total	0.500	1.00	0.500	1	U

Surrogate	Recovery	Control Limits	Qualifier
a,a,a-Trifluorotoluene	104	70 - 130	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

JAB 2/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8021B Preparatory Method: 8021B\5030B AAB # : WG125576

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-9I-Q3-02-20 Lab Sample ID: L0209310-04 Matrix: Water

% Solids: 0 Initial Calibration ID: HP5 20-FEB-2002

Date Received: 18-SEP-02 Date Extracted: Date Analyzed: 18-SEP-02 21:58

Concentration Units: ug/L File ID: 5G14765

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Benzene	0.500	1.00	18.4	1	
Ethylbenzene	0.500	1.00	18.7	1	
Methyl tert-butyl ether	0.500	1.00	19.1	1	
Toluene	0.500	1.00	18.3	1	
Xylenes, Total	0.500	1.00	55.4	1	

Surrogate	Recovery	Control Limits	Qualifier
a,a,a-Trifluorotoluene	105	70 - 130	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

WAS 2/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8021B Preparatory Method: 8021B\5030B AAB # : WG125576

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-9I-03-02-20 Lab Sample ID: L0209310-05 Matrix: Water

% Solids: 0 Initial Calibration ID: HP5 20-FEB-2002

Date Received: 18-SEP-02 Date Extracted: Date Analyzed: 18-SEP-02 22:32

Concentration Units: ug/L File ID: 5G14766

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Benzene	0.500	1.00	19.2	1	
Ethylbenzene	0.500	1.00	19.7	1	
Methyl tert-butyl ether	0.500	1.00	18.1	1	
Toluene	0.500	1.00	19.2	1	
Xylenes, Total	0.500	1.00	58.0	1	

Surrogate	Recovery	Control Limits	Qualifier
a,a,a-Trifluorotoluene	105	70 - 130	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

pAB 2/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8021B Preparatory Method: 8021B\5030B AAB # : WG125576

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-12I-03-02-20 Lab Sample ID: L0209310-06 Matrix: Water

% Solids: 0 Initial Calibration ID: HP5 20-FEB-2002

Date Received: 18-SEP-02 Date Extracted: Date Analyzed: 18-SEP-02 23:07

Concentration Units: ug/L File ID: 5G14767

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Benzene	0.500	1.00	0.500	1	U
Ethylbenzene	0.500	1.00	0.500	1	U
Methyl tert-butyl ether	0.500	1.00	0.500	1	U
Toluene	0.500	1.00	0.500	1	U
Xylenes, Total	0.500	1.00	0.500	1	U

Surrogate	Recovery	Control Limits	Qualifier
a,a,a-Trifluorotoluene	104	70 - 130	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

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MAS 7/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8021B Preparatory Method: 8021B\5030B AAB # : WG125576

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-13I-03-02-20 Lab Sample ID: L0209310-07 Matrix: Water

% Solids: 0 Initial Calibration ID: HP5 20-FEB-2002

Date Received: 18-SEP-02 Date Extracted: Date Analyzed: 18-SEP-02 23:42

Concentration Units: ug/L File ID: 5G14768

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Benzene	0.500	1.00	0.500	1	U
Ethylbenzene	0.500	1.00	0.500	1	U
Methyl tert-butyl ether	0.500	1.00	174	1	
Toluene	0.500	1.00	0.500	1	U
Xylenes, Total	0.500	1.00	0.500	1	U

Surrogate	Recovery	Control Limits	Qualifier
a,a,a-Trifluorotoluene	105	70 - 130	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

2/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8021B Preparatory Method: 8021B\5030B AAB # : WG125576

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-14D-Q3-02-20 Lab Sample ID: L0209310-08 Matrix: Water

% Solids: 0 Initial Calibration ID: HP5 20-FEB-2002

Date Received: 18-SEP-02 Date Extracted: Date Analyzed: 19-SEP-02 00:16

Concentration Units: ug/L File ID: 5G14769

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Benzene	0.500	1.00	0.500	1	U
Ethylbenzene	0.500	1.00	0.500	1	U
Methyl tert-butyl ether	0.500	1.00	0.500	1	U
Toluene	0.500	1.00	0.500	1	U
Xylenes, Total	0.500	1.00	0.500	1	U

Surrogate	Recovery	Control Limits	Qualifier
a,a,a-Trifluorotoluene	103	70 - 130	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAB 2/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8021B Preparatory Method: 8021B\5030B AAB # : WG125576

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-15I-03-02-20 Lab Sample ID: L0209310-09 Matrix: Water

% Solids: 0 Initial Calibration ID: HP5 20-FEB-2002

Date Received: 18-SEP-02 Date Extracted: Date Analyzed: 19-SEP-02 00:51

Concentration Units: ug/L File ID: 5G14770

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Benzene	0.500	1.00	0.500	1	U
Ethylbenzene	0.500	1.00	0.500	1	U
Methyl tert-butyl ether	0.500	1.00	0.500	1	U
Toluene	0.500	1.00	0.500	1	U
Xylenes, Total	0.500	1.00	0.500	1	U

Surrogate	Recovery	Control Limits	Qualifier
a,a,a-Trifluorotoluene	102	70 - 130	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAS 2/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8021B Preparatory Method: 8021B\5030B AAB # : WG125576

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-46DUP-03-02-20 Lab Sample ID: L0209310-10 Matrix: Water

% Solids: 0 Initial Calibration ID: HP5 20-FEB-2002

Date Received: 18-SEP-02 Date Extracted: Date Analyzed: 19-SEP-02 01:25

Concentration Units: ug/L File ID: 5G14771

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Benzene	0.500	1.00	406	1	I
Ethylbenzene	0.500	1.00	75.7	1	
Methyl tert-butyl ether	0.500	1.00	3160	1	I
Toluene	0.500	1.00	78.4	1	
Xylenes, Total	0.500	1.00	442	1	I

Surrogate	Recovery	Control Limits	Qualifier
a,a,a-Trifluorotoluene	124	70 - 130	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

RAB 2/4/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8021B Preparatory Method: 8021B\5030B AAB # : WG125606

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-46DUP-03-02-20 Lab Sample ID: L0209310-10 Matrix: Water

% Solids: 0 Initial Calibration ID: HP5 20-FEB-2002

Date Received: 18-SEP-02 Date Extracted: Date Analyzed: 19-SEP-02 14:12

Concentration Units: ug/L File ID: 5G14784

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Benzene	10.0	20.0	430	20	
Ethylbenzene	10.0	20.0	70.2	20	
Methyl tert-butyl ether	10.0	20.0	4120	20	
Toluene	10.0	20.0	75.6	20	
Xylenes, Total	10.0	20.0	449	20	

Surrogate	Recovery	Control Limits	Qualifier
a,a,a-Trifluorotoluene	107	70 - 130	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

2/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8021B Preparatory Method: 8021B\5030B AAB # : WG125576

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-46EOB-03-02-20 Lab Sample ID: L0209310-11 Matrix: Water

% Solids: 0 Initial Calibration ID: HP5 20-FEB-2002

Date Received: 18-SEP-02 Date Extracted: Date Analyzed: 19-SEP-02 02:34

Concentration Units: ug/L File ID: 5G14773

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Benzene	0.500	1.00	0.500	1	U
Ethylbenzene	0.500	1.00	0.500	1	U
Methyl tert-butyl ether	0.500	1.00	0.500	1	U
Toluene	0.500	1.00	0.500	1	U
Xylenes, Total	0.500	1.00	0.500	1	U

Surrogate	Recovery	Control Limits	Qualifier
a,a,a-Trifluorotoluene	103	70 - 130	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

7/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8021B Preparatory Method: 8021B\5030B AAB # : WG125576

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-46TB1-Q3-02-20 Lab Sample ID: L0209310-12 Matrix: Water

% Solids: 0 Initial Calibration ID: HP5 20-FEB-2002

Date Received: 18-SEP-02 Date Extracted: Date Analyzed: 19-SEP-02 03:09

Concentration Units: ug/L File ID: 5G14774

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Benzene	0.500	1.00	0.500	1	U
Ethylbenzene	0.500	1.00	0.500	1	U
Methyl tert-butyl ether	0.500	1.00	0.500	1	U
Toluene	0.500	1.00	0.500	1	U
Xylenes, Total	0.500	1.00	0.500	1	U

Surrogate	Recovery	Control Limits	Qualifier
a,a,a-Trifluorotoluene	102	70 - 130	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

2/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8310 Preparatory Method: 8310\3510C AAB # : WG125710

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-2S-03-02-20 Lab Sample ID: L0209310-01 Matrix: Water

% Solids: 0 Initial Calibration ID: HPLC4 20-SEP-2002

Date Received: 18-SEP-02 Date Extracted: 19-SEP-02 Date Analyzed: 22-SEP-02 06:05

Concentration Units: ug/L File ID: 4L003594.R

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1-Methylnaphthalene	0.377	1.0	0.377	1	U
2-Methylnaphthalene	0.350	1.0	0.350	1	U
Acenaphthene	0.432	1.0	0.432	1	U
Acenaphthylene	0.366	1.0	0.366	1	U
Anthracene	0.297	1.0	0.297	1	U
Benzo(a)anthracene	0.0313	0.21	0.0313	1	U
Benzo(a)pyrene	0.0552	0.21	0.0552	1	U
Benzo(b)fluoranthene	0.0354	0.21	0.0354	1	U
Benzo(g,h,i)perylene	0.0521	0.21	0.0521	1	U
Benzo(k)fluoranthene	0.0750	0.21	0.0750	1	U
Chrysene	0.0250	0.21	0.0250	1	U
Dibenzo(a,h)anthracene	0.0802	0.21	0.0802	1	U
Fluoranthene	0.0521	0.21	0.0521	1	U
Fluorene	0.582	1.0	0.582	1	U
Indeno(1,2,3-cd)pyrene	0.0833	0.21	0.0833	1	U
Naphthalene	0.374	1.0	0.374	1	U
Phenanthrene	0.299	1.0	0.299	1	U
Pyrene	0.0708	0.21	0.0740	1	J

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

2/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8310 Preparatory Method: 8310\3510C AAB # : WG125710

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-2S-Q3-02-20 Lab Sample ID: L0209310-01 Matrix: Water

% Solids: 0 Initial Calibration ID: HPLC4 20-SEP-2002

Date Received: 18-SEP-02 Date Extracted: 19-SEP-02 Date Analyzed: 22-SEP-02 06:05

Concentration Units: % Recovery File ID: 4L003594.R

Analyte	MDL	RL	Concentration	Dilution	Qualifier

Surrogate	Recovery	Control Limits	Qualifier
p-terphenyl-d14	40.1	40 - 132	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAB 2/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8310 Preparatory Method: 8310\3510C AAB # : WG125710

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-7I-Q3-02-20 Lab Sample ID: L0209310-02 Matrix: Water

% Solids: 0 Initial Calibration ID: HPLC4 20-SEP-2002

Date Received: 18-SEP-02 Date Extracted: 19-SEP-02 Date Analyzed: 22-SEP-02 07:01

Concentration Units: ug/L File ID: 4L003595.R

Qual Code

Analyte	MDL	RL	Concentration	Dilution	Qualifier		
1-Methylnaphthalene	0.373	1.0	0.373	1	U	UJ	S
2-Methylnaphthalene	0.346	1.0	1.40	1		J	S
Acenaphthene	0.428	1.0	0.428	1	U	UJ	S
Acenaphthylene	0.362	1.0	0.362	1	U		
Anthracene	0.294	1.0	0.294	1	U		
Benzo(a)anthracene	0.0309	0.21	0.0309	1	U		
Benzo(a)pyrene	0.0546	0.21	0.0546	1	U		
Benzo(b)fluoranthene	0.0351	0.21	0.0351	1	U		
Benzo(g,h,i)perylene	0.0515	0.21	0.0515	1	U		
Benzo(k)fluoranthene	0.0742	0.21	0.0742	1	U		
Chrysene	0.0247	0.21	0.0247	1	U		
Dibenzo(a,h)anthracene	0.0794	0.21	0.0794	1	U		
Fluoranthene	0.0515	0.21	0.0515	1	U		
Fluorene	0.576	1.0	0.576	1	U		
Indeno(1,2,3-cd)pyrene	0.0825	0.21	0.0825	1	U		
Naphthalene	0.370	1.0	9.80	1		J	S
Phenanthrene	0.296	1.0	0.296	1	U	UJ	S
Pyrene	0.0701	0.21	0.0701	1	U	UJ	S

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAS 2/4/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8310 Preparatory Method: 8310\3510C AAB # : WG125710

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-7I-Q3-02-20 Lab Sample ID: L0209310-02 Matrix: Water

% Solids: 0 Initial Calibration ID: HPLC4 20-SEP-2002

Date Received: 18-SEP-02 Date Extracted: 19-SEP-02 Date Analyzed: 22-SEP-02 07:01

Concentration Units: % Recovery File ID: 4L003595.R

Analyte	MDL	RL	Concentration	Dilution	Qualifier

Surrogate	Recovery	Control Limits	Qualifier
p-terphenyl-d14	28.5	40 - 132	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAG 2/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8310 Preparatory Method: 8310\3510C AAB # : WG125710

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-9I-Q3-02-20 Lab Sample ID: L0209310-03 Matrix: Water

% Solids: 0 Initial Calibration ID: HPLC4 20-SEP-2002

Date Received: 18-SEP-02 Date Extracted: 19-SEP-02 Date Analyzed: 22-SEP-02 07:58

Concentration Units: ug/L File ID: 4L003596.F

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1-Methylnaphthalene	0.362	1.0	0.362	1	U
2-Methylnaphthalene	0.336	1.0	0.336	1	U
Acenaphthene	0.415	1.0	0.415	1	U
Acenaphthylene	0.351	1.0	0.351	1	U
Anthracene	0.285	1.0	0.285	1	U
Benzo(a)anthracene	0.0300	0.20	0.0300	1	U
Benzo(a)pyrene	0.0530	0.20	0.0530	1	U
Benzo(b)fluoranthene	0.0340	0.20	0.0340	1	U
Benzo(g,h,i)perylene	0.0500	0.20	0.0500	1	U
Benzo(k)fluoranthene	0.0720	0.20	0.0720	1	U
Chrysene	0.0240	0.20	0.0240	1	U
Dibenzo(a,h)anthracene	0.0770	0.20	0.0770	1	U
Fluoranthene	0.0500	0.20	0.0500	1	U
Fluorene	0.559	1.0	0.559	1	U
Indeno(1,2,3-cd)pyrene	0.0800	0.20	0.0800	1	U
Naphthalene	0.359	1.0	0.359	1	U
Phenanthrene	0.287	1.0	0.287	1	U
Pyrene	0.0680	0.20	0.0680	1	U

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

2/4/07

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KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8310 Preparatory Method: 8310\3510C AAB # : WG125710

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-9I-03-02-20 Lab Sample ID: L0209310-03 Matrix: Water

% Solids: 0 Initial Calibration ID: HPLC4 20-SEP-2002

Date Received: 18-SEP-02 Date Extracted: 19-SEP-02 Date Analyzed: 22-SEP-02 07:58

Concentration Units: % Recovery File ID: 4L003596.F

Analyte	MDL	RL	Concentration	Dilution	Qualifier

Surrogate	Recovery	Control Limits	Qualifier
p-terphenyl-d14	52.2	40 - 132	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

AAS 2/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8310 Preparatory Method: 8310\3510C AAB # : WG125710

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-12I-03-02-20 Lab Sample ID: L0209310-06 Matrix: Water

% Solids: 0 Initial Calibration ID: HPLC4 20-SEP-2002

Date Received: 18-SEP-02 Date Extracted: 19-SEP-02 Date Analyzed: 22-SEP-02 10:48

Concentration Units: ug/L File ID: 4L003599.R

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1-Methylnaphthalene	0.381	1.1	0.381	1	U
2-Methylnaphthalene	0.354	1.1	0.354	1	U
Acenaphthene	0.437	1.1	0.437	1	U
Acenaphthylene	0.369	1.1	0.369	1	U
Anthracene	0.300	1.1	0.300	1	U
Benzo(a)anthracene	0.0316	0.21	0.0316	1	U
Benzo(a)pyrene	0.0558	0.21	0.0558	1	U
Benzo(b)fluoranthene	0.0358	0.21	0.0358	1	U
Benzo(g,h,i)perylene	0.0526	0.21	0.0526	1	U
Benzo(k)fluoranthene	0.0758	0.21	0.0758	1	U
Chrysene	0.0253	0.21	0.0253	1	U
Dibenzo(a,h)anthracene	0.0811	0.21	0.0811	1	U
Fluoranthene	0.0526	0.21	0.0526	1	U
Fluorene	0.588	1.1	0.588	1	U
Indeno(1,2,3-cd)pyrene	0.0842	0.21	0.0842	1	U
Naphthalene	0.378	1.1	0.378	1	U
Phenanthrene	0.302	1.1	0.302	1	U
Pyrene	0.0716	0.21	0.0716	1	U

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MHS 2/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8310 Preparatory Method: 8310\3510C AAB # : WG125710

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-12I-03-02-20 Lab Sample ID: L0209310-06 Matrix: Water

% Solids: 0 Initial Calibration ID: HPLC4 20-SEP-2002

Date Received: 18-SEP-02 Date Extracted: 19-SEP-02 Date Analyzed: 22-SEP-02 10:48

Concentration Units: % Recovery File ID: 4L003599.R

Analyte	MDL	RL	Concentration	Dilution	Qualifier

Surrogate	Recovery	Control Limits	Qualifier
p-terphenyl-d14	59.1	40 - 132	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAH 2/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8310 Preparatory Method: 8310\3510C AAB # : WG125710

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-13I-03-02-20 Lab Sample ID: L0209310-07 Matrix: Water

% Solids: 0 Initial Calibration ID: HPLC4 20-SEP-2002

Date Received: 18-SEP-02 Date Extracted: 19-SEP-02 Date Analyzed: 22-SEP-02 11:44

Concentration Units: ug/L File ID: 4L003600.R

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1-Methylnaphthalene	0.377	1.0	0.377	1	U
2-Methylnaphthalene	0.350	1.0	0.350	1	U
Acenaphthene	0.432	1.0	0.432	1	U
Acenaphthylene	0.366	1.0	0.366	1	U
Anthracene	0.297	1.0	0.297	1	U
Benzo(a)anthracene	0.0313	0.21	0.0313	1	U
Benzo(a)pyrene	0.0552	0.21	0.0552	1	U
Benzo(b)fluoranthene	0.0354	0.21	0.0354	1	U
Benzo(g,h,i)perylene	0.0521	0.21	0.0521	1	U
Benzo(k)fluoranthene	0.0750	0.21	0.0750	1	U
Chrysene	0.0250	0.21	0.0250	1	U
Dibenzo(a,h)anthracene	0.0802	0.21	0.0802	1	U
Fluoranthene	0.0521	0.21	0.0521	1	U
Fluorene	0.582	1.0	0.582	1	U
Indeno(1,2,3-cd)pyrene	0.0833	0.21	0.0833	1	U
Naphthalene	0.374	1.0	0.374	1	U
Phenanthrene	0.299	1.0	0.299	1	U
Pyrene	0.0708	0.21	0.0770	1	J

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAS 2/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8310 Preparatory Method: 8310\3510C AAB # : WG125710

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-13I-03-02-20 Lab Sample ID: L0209310-07 Matrix: Water

% Solids: 0 Initial Calibration ID: HPLC4 20-SEP-2002

Date Received: 18-SEP-02 Date Extracted: 19-SEP-02 Date Analyzed: 22-SEP-02 11:44

Concentration Units: % Recovery File ID: 4L003600.R

Analyte	MDL	RL	Concentration	Dilution	Qualifier

Surrogate	Recovery	Control Limits	Qualifier
p-terphenyl-d14	79.1	40 - 132	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

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KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8310 Preparatory Method: 8310\3510C AAB # : WG125710

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-14D-03-02-20 Lab Sample ID: L0209310-08 Matrix: Water

% Solids: 0 Initial Calibration ID: HPLC4 20-SEP-2002

Date Received: 18-SEP-02 Date Extracted: 19-SEP-02 Date Analyzed: 22-SEP-02 13:38

Concentration Units: ug/L File ID: 4L003602.R

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1-Methylnaphthalene	0.377	1.0	0.377	1	U
2-Methylnaphthalene	0.350	1.0	0.350	1	U
Acenaphthene	0.432	1.0	0.432	1	U
Acenaphthylene	0.366	1.0	0.366	1	U
Anthracene	0.297	1.0	0.297	1	U
Benzo(a)anthracene	0.0313	0.21	0.0313	1	U
Benzo(a)pyrene	0.0552	0.21	0.0552	1	U
Benzo(b)fluoranthene	0.0354	0.21	0.0354	1	U
Benzo(g,h,i)perylene	0.0521	0.21	0.0521	1	U
Benzo(k)fluoranthene	0.0750	0.21	0.0750	1	U
Chrysene	0.0250	0.21	0.0250	1	U
Dibenzo(a,h)anthracene	0.0802	0.21	0.0802	1	U
Fluoranthene	0.0521	0.21	0.0521	1	U
Fluorene	0.582	1.0	0.582	1	U
Indeno(1,2,3-cd)pyrene	0.0833	0.21	0.0833	1	U
Naphthalene	0.374	1.0	0.374	1	U
Phenanthrene	0.299	1.0	0.299	1	U
Pyrene	0.0708	0.21	0.0708	1	U

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

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KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8310 Preparatory Method: 8310\3510C AAB # : WG125710

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-14D-Q3-02-20 Lab Sample ID: L0209310-08 Matrix: Water

% Solids: 0 Initial Calibration ID: HPLC4 20-SEP-2002

Date Received: 18-SEP-02 Date Extracted: 19-SEP-02 Date Analyzed: 22-SEP-02 13:38

Concentration Units: % Recovery File ID: 4L003602.R

Analyte	MDL	RL	Concentration	Dilution	Qualifier

Surrogate	Recovery	Control Limits	Qualifier
p-terphenyl-d14	67.8	40 - 132	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

2/14/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8310 Preparatory Method: 8310\3510C AAB # : WG125710

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-15I-Q3-02-20 Lab Sample ID: L0209310-09 Matrix: Water

% Solids: 0 Initial Calibration ID: HPLC4 20-SEP-2002

Date Received: 18-SEP-02 Date Extracted: 19-SEP-02 Date Analyzed: 22-SEP-02 14:34

Concentration Units: ug/L File ID: 4L003603.R

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1-Methylnaphthalene	0.381	1.1	0.381	1	U
2-Methylnaphthalene	0.354	1.1	0.354	1	U
Acenaphthene	0.437	1.1	0.437	1	U
Acenaphthylene	0.369	1.1	0.369	1	U
Anthracene	0.300	1.1	0.300	1	U
Benzo(a)anthracene	0.0316	0.21	0.0316	1	U
Benzo(a)pyrene	0.0558	0.21	0.0558	1	U
Benzo(b)fluoranthene	0.0358	0.21	0.0358	1	U
Benzo(g,h,i)perylene	0.0526	0.21	0.0526	1	U
Benzo(k)fluoranthene	0.0758	0.21	0.0758	1	U
Chrysene	0.0253	0.21	0.0253	1	U
Dibenzo(a,h)anthracene	0.0811	0.21	0.0811	1	U
Fluoranthene	0.0526	0.21	0.0526	1	U
Fluorene	0.588	1.1	0.588	1	U
Indeno(1,2,3-cd)pyrene	0.0842	0.21	0.0842	1	U
Naphthalene	0.378	1.1	0.378	1	U
Phenanthrene	0.302	1.1	0.302	1	U
Pyrene	0.0716	0.21	0.0716	1	U

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAG 2/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8310 Preparatory Method: 8310\3510C AAB # : WG125710

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-15I-03-02-20 Lab Sample ID: L0209310-09 Matrix: Water

% Solids: 0 Initial Calibration ID: HPLC4 20-SEP-2002

Date Received: 18-SEP-02 Date Extracted: 19-SEP-02 Date Analyzed: 22-SEP-02 14:34

Concentration Units: % Recovery File ID: 4L003603.R

Analyte	MDL	RL	Concentration	Dilution	Qualifier

Surrogate	Recovery	Control Limits	Qualifier
p-terphenyl-d14	77.7	40 - 132	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MH 2/14/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8310 Preparatory Method: 8310\3510C AAB # : WG125710

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-46DUP-Q3-02-20 Lab Sample ID: L0209310-10 Matrix: Water

% Solids: 0 Initial Calibration ID: HPLC4 20-SEP-2002

Date Received: 18-SEP-02 Date Extracted: 19-SEP-02 Date Analyzed: 22-SEP-02 15:31

Concentration Units: ug/L File ID: 4L003604.R

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1-Methylnaphthalene	0.362	1.0	0.362	1	U
2-Methylnaphthalene	0.336	1.0	1.20	1	
Acenaphthene	0.415	1.0	0.415	1	U
Acenaphthylene	0.351	1.0	0.351	1	U
Anthracene	0.285	1.0	0.285	1	U
Benzo(a)anthracene	0.0300	0.20	0.0300	1	U
Benzo(a)pyrene	0.0530	0.20	0.0530	1	U
Benzo(b)fluoranthene	0.0340	0.20	0.0340	1	U
Benzo(g,h,i)perylene	0.0500	0.20	0.0500	1	U
Benzo(k)fluoranthene	0.0720	0.20	0.0720	1	U
Chrysene	0.0240	0.20	0.0240	1	U
Dibenzo(a,h)anthracene	0.0770	0.20	0.0770	1	U
Fluoranthene	0.0500	0.20	0.0500	1	U
Fluorene	0.559	1.0	0.559	1	U
Indeno(1,2,3-cd)pyrene	0.0800	0.20	0.0800	1	U
Naphthalene	0.359	1.0	9.80	1	
Phenanthrene	0.287	1.0	0.287	1	U
Pyrene	0.0680	0.20	0.0680	1	U

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAK 2/11/04

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8310 Preparatory Method: 8310\3510C AAB # : WG125710

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-46DUP-Q3-02-20 Lab Sample ID: L0209310-10 Matrix: Water

% Solids: 0 Initial Calibration ID: HPLC4 20-SEP-2002

Date Received: 18-SEP-02 Date Extracted: 19-SEP-02 Date Analyzed: 22-SEP-02 15:31

Concentration Units: % Recovery File ID: 4L003604.R

Analyte	MDL	RL	Concentration	Dilution	Qualifier

Surrogate	Recovery	Control Limits	Qualifier
p-terphenyl-d14	64.5	40 - 132	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAK 9/9/03

R8

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8310 Preparatory Method: 8310\3510C AAB # : WG125710

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-46EQB-03-02-20 Lab Sample ID: L0209310-11 Matrix: Water

% Solids: 0 Initial Calibration ID: HPLC4 20-SEP-2002

Date Received: 18-SEP-02 Date Extracted: 19-SEP-02 Date Analyzed: 22-SEP-02 16:28

Concentration Units: ug/L File ID: 4L003605.R

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1-Methylnaphthalene	0.393	1.1	0.393	1	U
2-Methylnaphthalene	0.365	1.1	0.365	1	U
Acenaphthene	0.451	1.1	0.451	1	U
Acenaphthylene	0.382	1.1	0.382	1	U
Anthracene	0.310	1.1	0.310	1	U
Benzo(a)anthracene	0.0326	0.22	0.0326	1	U
Benzo(a)pyrene	0.0576	0.22	0.0576	1	U
Benzo(b)fluoranthene	0.0370	0.22	0.0370	1	U
Benzo(g,h,i)perylene	0.0543	0.22	0.210	1	J
Benzo(k)fluoranthene	0.0783	0.22	0.0783	1	U
Chrysene	0.0261	0.22	0.0261	1	U
Dibenzo(a,h)anthracene	0.0837	0.22	0.0837	1	U
Fluoranthene	0.0543	0.22	0.0543	1	U
Fluorene	0.608	1.1	0.608	1	U
Indeno(1,2,3-cd)pyrene	0.0870	0.22	0.0870	1	U
Naphthalene	0.390	1.1	0.390	1	U
Phenanthrene	0.312	1.1	0.312	1	U
Pyrene	0.0739	0.22	0.0739	1	U

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAS 2/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8310 Preparatory Method: 8310\3510C AAB # : WG125710

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-46EQB-Q3-02-20 Lab Sample ID: L0209310-11 Matrix: Water

% Solids: 0 Initial Calibration ID: HPLC4 20-SEP-2002

Date Received: 18-SEP-02 Date Extracted: 19-SEP-02 Date Analyzed: 22-SEP-02 16:28

Concentration Units: % Recovery File ID:4L003605.R

Analyte	MDL	RL	Concentration	Dilution	Qualifier

Surrogate	Recovery	Control Limits	Qualifier
p-terphenyl-d14	74.8	40 - 132	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

2/10/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8015 MOD Preparatory Method: 8015 MOD\3510C AAB # : WG125690

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-2S-Q3-02-20 Lab Sample ID: L0209310-01 Matrix: Water

% Solids: 0 Initial Calibration ID: HP2 30-SEP-2002

Date Received: 18-SEP-02 Date Extracted: 19-SEP-02 Date Analyzed: 30-SEP-02 20:12

Concentration Units: ug/L File ID: 2G22235

Qual Code

Analyte	MDL	RL	Concentration	Dilution	Qualifier
TRPH-Florida PRO	256	513	~~498~~ 573	1	J UJ FS

Surrogate	Recovery	Control Limits	Qualifier
o-Terphenyl	41.4	49 – 174	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAS 2/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8015 MOD Preparatory Method: 8015 MOD\3510C AAB # : WG125690

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-7I-Q3-02-20 Lab Sample ID: L0209310-02 Matrix: Water

% Solids: 0 Initial Calibration ID: HP2 30-SEP-2002

Date Received: 18-SEP-02 Date Extracted: 19-SEP-02 Date Analyzed: 30-SEP-02 20:27

Concentration Units: ug/L File ID: 2G22236

Qual Code

Analyte	MDL	RL	Concentration	Dilution	Qualifier
TRPH-Florida PRO	260	521	950	1	U F

Surrogate	Recovery	Control Limits	Qualifier
o-Terphenyl	54.2	49 - 174	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAS
2/19/03

2.8

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8015 MOD Preparatory Method: 8015 MOD\3510C AAB # : WG125690

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-9I-03-02-20 Lab Sample ID: L0209310-03 Matrix: Water

% Solids: 0 Initial Calibration ID: HP2 30-SEP-2002

Date Received: 18-SEP-02 Date Extracted: 19-SEP-02 Date Analyzed: 30-SEP-02 20:42

Concentration Units: ug/L File ID: 2G22237

Qual Code

Analyte	MDL	RL	Concentration	Dilution	Qualifier
TRPH-Florida PRO	256	513	623	1	U F

Surrogate	Recovery	Control Limits	Qualifier
o-Terphenyl	54.5	49 - 174	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAB 2/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8015 MOD Preparatory Method: 8015 MOD\3510C AAB # : WG125690

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-12I-Q3-02-20 Lab Sample ID: L0209310-06 Matrix: Water

% Solids: 0 Initial Calibration ID: HP2 30-SEP-2002

Date Received: 18-SEP-02 Date Extracted: 19-SEP-02 Date Analyzed: 30-SEP-02 21:28

Concentration Units: ug/L File ID: 2G22240

Qual Code

Analyte	MDL	RL	Concentration	Dilution	Qualifier
TRPH-Florida PRO	250	500	564	1	U F

Surrogate	Recovery	Control Limits	Qualifier
o-Terphenyl	53.4	49 - 174	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAB
2/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8015 MOD Preparatory Method: 8015 MOD\3510C AAB # : WG125690

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-13I-Q3-02-20 Lab Sample ID: L0209310-07 Matrix: Water

% Solids: 0 Initial Calibration ID: HP2 30-SEP-2002

Date Received: 18-SEP-02 Date Extracted: 19-SEP-02 Date Analyzed: 30-SEP-02 21:43

Concentration Units: ug/L File ID: 2G22241

Qual Code

Analyte	MDL	RL	Concentration	Dilution	Qualifier
TRPH-Florida PRO	258	515	745	1	U F

Surrogate	Recovery	Control Limits	Qualifier
o-Terphenyl	79.4	49 - 174	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAS
2/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8015 MOD Preparatory Method: 8015 MOD\3510C AAB # : WG125690

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-14D-Q3-02-20 Lab Sample ID: L0209310-08 Matrix: Water

% Solids: 0 Initial Calibration ID: HP2 30-SEP-2002

Date Received: 18-SEP-02 Date Extracted: 19-SEP-02 Date Analyzed: 30-SEP-02 22:29

Concentration Units: ug/L File ID: 2G22244

Qual Code

Analyte	MDL	RL	Concentration	Dilution	Qualifier
TRPH-Florida PRO	250	500	554	1	U F

Surrogate	Recovery	Control Limits	Qualifier
o-Terphenyl	54.0	49 - 174	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAK 2/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8015 MOD Preparatory Method: 8015 MOD\3510C AAB # : WG125690

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-15I-Q3-02-20 Lab Sample ID: L0209310-09 Matrix: Water

% Solids: 0 Initial Calibration ID: HP2 30-SEP-2002

Date Received: 18-SEP-02 Date Extracted: 19-SEP-02 Date Analyzed: 30-SEP-02 22:44

Concentration Units: ug/L File ID: 2G22245

Qual Code

Analyte	MDL	RL	Concentration	Dilution	Qualifier
TRPH-Florida PRO	250	500	668	1	U F

Surrogate	Recovery	Control Limits	Qualifier
o-Terphenyl	74.2	49 - 174	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAS
2/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8015 MOD Preparatory Method: 8015 MOD\3510C AAB # : WG125690

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-46DUP-03-02-20 Lab Sample ID: L0209310-10 Matrix: Water

% Solids: 0 Initial Calibration ID: HP2 30-SEP-2002

Date Received: 18-SEP-02 Date Extracted: 19-SEP-02 Date Analyzed: 30-SEP-02 22:59

Concentration Units: ug/L File ID: 2G22246

Qual Code

Analyte	MDL	RL	Concentration	Dilution	Qualifier
TRPH-Florida PRO	250	500	646	1	U F

Surrogate	Recovery	Control Limits	Qualifier
o-Terphenyl	56.0	49 - 174	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAS
2/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8015 MOD Preparatory Method: 8015 MOD\3510C AAB # : WG125690

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-46EQB-Q3-02-20 Lab Sample ID: L0209310-11 Matrix: Water

% Solids: 0 Initial Calibration ID: HP2 30-SEP-2002

Date Received: 18-SEP-02 Date Extracted: 19-SEP-02 Date Analyzed: 30-SEP-02 23:15

Concentration Units: ug/L File ID: 2G22247

Qual Code

Analyte	MDL	RL	Concentration	Dilution	Qualifier
TRPH-Florida PRO	263	526	964	1	U F

Surrogate	Recovery	Control Limits	Qualifier
o-Terphenyl	55.7	49 - 174	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAS
2/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 9056 Preparatory Method: 9056 AAB # : WG125591

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-2S-03-02-20 Lab Sample ID: L0209310-01 Matrix: Water

% Solids: 0 Initial Calibration ID: IC2 18-SEP-02

Date Received: 18-SEP-02 Date Extracted: Date Analyzed: 18-SEP-02 15:18

Concentration Units: mg/L File ID: 091802.13

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Nitrate	0.0670	0.60	0.0670	1	U
Nitrite	0.0610	0.40	0.0610	1	U
Phosphate	0.163	1.0	0.290	1	J

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

NAB 11/9/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 9056 Preparatory Method: 9056 AAB # : WG125591

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-7I-Q3-02-20 Lab Sample ID: L0209310-02 Matrix: Water

% Solids: 0 Initial Calibration ID: IC2 18-SEP-02

Date Received: 18-SEP-02 Date Extracted: Date Analyzed: 18-SEP-02 18:40

Concentration Units: mg/L File ID: 091802.29

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Nitrate	0.0670	0.60	0.0670	1	U
Nitrite	0.0610	0.40	0.0610	1	U
Phosphate	0.163	1.0	0.163	1	U

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAB 2/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 9056 Preparatory Method: 9056 AAB # : WG125591

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-9I-03-02-20 Lab Sample ID: L0209310-03 Matrix: Water

% Solids: 0 Initial Calibration ID: IC2 18-SEP-02

Date Received: 18-SEP-02 Date Extracted: Date Analyzed: 18-SEP-02 15:41

Concentration Units: mg/L File ID: 091802.15

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Nitrate	0.0670	0.60	0.0670	1	U
Nitrite	0.0610	0.40	0.0610	1	U
Phosphate	0.163	1.0	0.163	1	U

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAH 2/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 9056 Preparatory Method: 9056 AAB # : WG125591

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-12I-03-02-20 Lab Sample ID: L0209310-06 Matrix: Water

% Solids: 0 Initial Calibration ID: IC2 18-SEP-02

Date Received: 18-SEP-02 Date Extracted: Date Analyzed: 18-SEP-02 16:16

Concentration Units: mg/L File ID: 091802.18

Qual Code

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Nitrate	0.0670	0.60	0.110	1	J U F
Nitrite	0.0610	0.40	0.0610	1	U
Phosphate	0.163	1.0	0.163	1	U

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAB 2/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 9056 Preparatory Method: 9056 AAB # : WG125591

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-13I-03-02-20 Lab Sample ID: L0209310-07 Matrix: Water

% Solids: 0 Initial Calibration ID: IC2 18-SEP-02

Date Received: 18-SEP-02 Date Extracted: Date Analyzed: 18-SEP-02 18:28

Concentration Units: mg/L File ID: 091802.28

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Nitrate	0.0670	0.60	0.0670	1	U
Nitrite	0.0610	0.40	0.0610	1	U
Phosphate	0.163	1.0	0.163	1	U

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAP 2/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 9056 Preparatory Method: 9056 AAB # : WG125591

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-14D-Q3-02-20 Lab Sample ID: L0209310-08 Matrix: Water

% Solids: 0 Initial Calibration ID: IC2 18-SEP-02

Date Received: 18-SEP-02 Date Extracted: Date Analyzed: 18-SEP-02 16:27

Concentration Units: mg/L File ID: 091802.19

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Nitrate	0.0670	0.60	0.0670	1	U
Nitrite	0.0610	0.40	0.0610	1	U
Phosphate	0.163	1.0	0.360	1	J

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAS 2/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 9056 Preparatory Method: 9056 AAB # : WG125591

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-15I-03-02-20 Lab Sample ID: L0209310-09 Matrix: Water

% Solids: 0 Initial Calibration ID: IC2 18-SEP-02

Date Received: 18-SEP-02 Date Extracted: Date Analyzed: 18-SEP-02 16:39

Concentration Units: mg/L File ID: 091802.20

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Nitrate	0.0670	0.60	0.0670	1	U
Nitrite	0.0610	0.40	0.0610	1	U
Phosphate	0.163	1.0	0.163	1	U

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAB 2/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 9056 Preparatory Method: 9056 AAB # : WG125591

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-46DUP-Q3-02-20 Lab Sample ID: L0209310-10 Matrix: Water

% Solids: 0 Initial Calibration ID: IC2 18-SEP-02

Date Received: 18-SEP-02 Date Extracted: Date Analyzed: 18-SEP-02 17:19

Concentration Units: mg/L File ID: 091802.22

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Nitrate	0.0670	0.60	0.0670	1	U
Nitrite	0.0610	0.40	0.0610	1	U
Phosphate	0.163	1.0	0.460	1	J

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAH 2/19/03

Q 9

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 9056 Preparatory Method: 9056 AAB # : WG125591

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-46EQB-Q3-02-20 Lab Sample ID: L0209310-11 Matrix: Water

% Solids: 0 Initial Calibration ID: IC2 18-SEP-02

Date Received: 18-SEP-02 Date Extracted: Date Analyzed: 18-SEP-02 17:31

Concentration Units: mg/L File ID: 091802.23

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Nitrate	0.0670	0.60	0.0670	1	U
Nitrite	0.0610	0.40	0.0610	1	U
Phosphate	0.163	1.0	0.163	1	U

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAH 2/19/03

Validated Chemical Test Results from Work Order L0209337

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8021B Preparatory Method: 8021B\5030B AAB # : WG125606

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-1S-03-02-20 Lab Sample ID: L0209337-01 Matrix: Water

% Solids: 0 Initial Calibration ID: HP5 20-FEB-2002

Date Received: 19-SEP-02 Date Extracted: Date Analyzed: 19-SEP-02 17:15

Concentration Units: ug/L File ID: 5G14789

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Benzene	50.0	100	262	100	
Ethylbenzene	50.0	100	541	100	
Methyl tert-butyl ether	50.0	100	542	100	
Toluene	50.0	100	1170	100	
Xylenes, Total	50.0	100	5760	100	

Surrogate	Recovery	Control Limits	Qualifier
a,a,a-Trifluorotoluene	106	70 - 130	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAB 2/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8021B Preparatory Method: 8021B\5030B AAB # : WG125606

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-5I-03-02-20 Lab Sample ID: L0209337-02 Matrix: Water

% Solids: 0 Initial Calibration ID: HP5 20-FEB-2002

Date Received: 19-SEP-02 Date Extracted: Date Analyzed: 19-SEP-02 17:50

Concentration Units: ug/L File ID: 5G14790

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Benzene	0.500	1.00	0.500	1	U
Ethylbenzene	0.500	1.00	0.500	1	U
Methyl tert-butyl ether	0.500	1.00	0.500	1	U
Toluene	0.500	1.00	0.500	1	U
Xylenes, Total	0.500	1.00	13.2	1	

Surrogate	Recovery	Control Limits	Qualifier
a,a,a-Trifluorotoluene	106	70 - 130	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

2/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8021B Preparatory Method: 8021B\5030B AAB # : WG125606

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-6D-Q3-02-20 Lab Sample ID: L0209337-03 Matrix: Water

% Solids: 0 Initial Calibration ID: HP5 20-FEB-2002

Date Received: 19-SEP-02 Date Extracted: Date Analyzed: 19-SEP-02 18:25

Concentration Units: ug/L File ID: 5G14791

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Benzene	0.500	1.00	0.500	1	U
Ethylbenzene	0.500	1.00	0.907	1	J
Methyl tert-butyl ether	0.500	1.00	0.961	1	J
Toluene	0.500	1.00	0.500	1	U
Xylenes, Total	0.500	1.00	9.05	1	

Surrogate	Recovery	Control Limits	Qualifier
a,a,a-Trifluorotoluene	106	70 - 130	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAS 2/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8021B Preparatory Method: 8021B\5030B AAB # : WG125606

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-21I-Q3-02-20 Lab Sample ID: L0209337-04 Matrix: Water

% Solids: 0 Initial Calibration ID: HP5 20-FEB-2002

Date Received: 19-SEP-02 Date Extracted: Date Analyzed: 19-SEP-02 18:59

Concentration Units: ug/L File ID: 5G14792

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Benzene	0.500	1.00	0.500	1	U
Ethylbenzene	0.500	1.00	0.500	1	U
Methyl tert-butyl ether	0.500	1.00	0.500	1	U
Toluene	0.500	1.00	0.500	1	U
Xylenes, Total	0.500	1.00	0.500	1	U

Surrogate	Recovery	Control Limits	Qualifier
a,a,a-Trifluorotoluene	106	70 - 130	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAB 2/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8021B Preparatory Method: 8021B\5030B AAB # : WG125606

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-24D-Q3-02-20 Lab Sample ID: L0209337-05 Matrix: Water

% Solids: 0 Initial Calibration ID: HP5 20-FEB-2002

Date Received: 19-SEP-02 Date Extracted: Date Analyzed: 19-SEP-02 19:34

Concentration Units: ug/L File ID: 5G14793

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Benzene	0.500	1.00	0.500	1	U
Ethylbenzene	0.500	1.00	0.500	1	U
Methyl tert-butyl ether	0.500	1.00	2.19	1	
Toluene	0.500	1.00	0.500	1	U
Xylenes, Total	0.500	1.00	0.500	1	U

Surrogate	Recovery	Control Limits	Qualifier
a,a,a-Trifluorotoluene	105	70 - 130	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAHS 2/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8021B Preparatory Method: 8021B\5030B AAB # : WG125606

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-25I-Q3-02-20 Lab Sample ID: L0209337-06 Matrix: Water

% Solids: 0 Initial Calibration ID: HP5 20-FEB-2002

Date Received: 19-SEP-02 Date Extracted: Date Analyzed: 19-SEP-02 20:08

Concentration Units: ug/L File ID: 5G14794

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Benzene	0.500	1.00	0.500	1	U
Ethylbenzene	0.500	1.00	0.500	1	U
Methyl tert-butyl ether	0.500	1.00	0.500	1	U
Toluene	0.500	1.00	0.500	1	U
Xylenes, Total	0.500	1.00	0.500	1	U

Surrogate	Recovery	Control Limits	Qualifier
a,a,a-Trifluorotoluene	104	70 - 130	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

2/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8021B Preparatory Method: 8021B\5030B AAB # : WG125606

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-26I-03-02-20 Lab Sample ID: L0209337-07 Matrix: Water

% Solids: 0 Initial Calibration ID: HP5 20-FEB-2002

Date Received: 19-SEP-02 Date Extracted: Date Analyzed: 19-SEP-02 20:43

Concentration Units: ug/L File ID: 5G14795

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Benzene	5.00	10.0	1390	10	
Ethylbenzene	5.00	10.0	37.3	10	
Methyl tert-butyl ether	5.00	10.0	13.5	10	
Toluene	5.00	10.0	6.32	10	J
Xylenes, Total	5.00	10.0	513	10	

Surrogate	Recovery	Control Limits	Qualifier
a,a,a-Trifluorotoluene	105	70 - 130	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

AAB 2/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8021B Preparatory Method: 8021B\5030B AAB # : WG125606

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-46TB-03-02-20 Lab Sample ID: L0209337-08 Matrix: Water

% Solids: 0 Initial Calibration ID: HP5 20-FEB-2002

Date Received: 19-SEP-02 Date Extracted: Date Analyzed: 19-SEP-02 21:18

Concentration Units: ug/L File ID: 5G14796

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Benzene	0.500	1.00	0.500	1	U
Ethylbenzene	0.500	1.00	0.500	1	U
Methyl tert-butyl ether	0.500	1.00	0.500	1	U
Toluene	0.500	1.00	0.500	1	U
Xylenes, Total	0.500	1.00	0.500	1	U

Surrogate	Recovery	Control Limits	Qualifier
a,a,a-Trifluorotoluene	103	70 - 130	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

2/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8310 Preparatory Method: 8310\3510C AAB # : WG125710

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-1S-03-02-20 Lab Sample ID: L0209337-01 Matrix: Water

% Solids: 0 Initial Calibration ID: HPLC4 20-SEP-2002

Date Received: 19-SEP-02 Date Extracted: 19-SEP-02 Date Analyzed: 22-SEP-02 17:24

Concentration Units: ug/L File ID: 4L003606.R

Qual Code

Analyte	MDL	RL	Concentration	Dilution	Qualifier	
1-Methylnaphthalene	0.362	1.0	19.0	1	J	S
2-Methylnaphthalene	0.336	1.0	52.0	1	J	S
Acenaphthene	0.415	1.0	0.415	1	U UJ	S
Acenaphthylene	0.351	1.0	0.351	1	U	
Anthracene	0.285	1.0	0.285	1	U	
Benzo(a)anthracene	0.0300	0.20	0.0300	1	U	
Benzo(a)pyrene	0.0530	0.20	0.0530	1	U	
Benzo(b)fluoranthene	0.0340	0.20	0.0340	1	U	
Benzo(g,h,i)perylene	0.0500	0.20	0.0500	1	U	
Benzo(k)fluoranthene	0.0720	0.20	0.0720	1	U	
Chrysene	0.0240	0.20	0.0240	1	U	
Dibenzo(a,h)anthracene	0.0770	0.20	0.0770	1	U	
Fluoranthene	0.0500	0.20	0.0500	1	U	
Fluorene	0.559	1.0	0.559	1	U	
Indeno(1,2,3-cd)pyrene	0.0800	0.20	0.0800	1	U	
Naphthalene	0.359	1.0	160	1	I	R D
Phenanthrene	0.287	1.0	0.287	1	U UJ	S
Pyrene	0.0680	0.20	0.0680	1	U UJ	S

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAH 2/14/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8310 Preparatory Method: 8310\3510C AAB # : WG125710

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-1S-03-02-20 Lab Sample ID: L0209337-01 Matrix: Water

% Solids: 0 Initial Calibration ID: HPLC4 20-SEP-2002

Date Received: 19-SEP-02 Date Extracted: 19-SEP-02 Date Analyzed: 22-SEP-02 17:24

Concentration Units: % Recovery File ID:4L003606.R

Analyte	MDL	RL	Concentration	Dilution	Qualifier

Surrogate	Recovery	Control Limits	Qualifier
p-terphenyl-d14	33.0	40 - 132	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAS 2/14/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8310 Preparatory Method: 8310\3510C AAB # : WG125710

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-1S-Q3-02-20 Lab Sample ID: L0209337-01 Matrix: Water

% Solids: 0 Initial Calibration ID: HPLC4 20-SEP-2002

Date Received: 19-SEP-02 Date Extracted: 19-SEP-02 Date Analyzed: 25-SEP-02 17:41

Concentration Units: ug/L File ID: 4L003617.R

Qual Calc

Analyte	MDL	RL	Concentration	Dilution	Qualifier		
1-Methylnaphthalene	3.62	10	3.62	10	U	L	D
2-Methylnaphthalene	3.36	10	3.36	10	U		
Acenaphthene	4.15	10	4.15	10	U		
Acenaphthylene	3.51	10	3.51	10	U		
Anthracene	2.85	10	2.85	10	U		
Benzo(a)anthracene	0.300	2.0	0.300	10	U		
Benzo(a)pyrene	0.530	2.0	0.530	10	U		
Benzo(b)fluoranthene	0.340	2.0	0.340	10	U		
Benzo(g,h,i)perylene	0.500	2.0	0.500	10	U		
Benzo(k)fluoranthene	0.720	2.0	0.720	10	U		
Chrysene	0.240	2.0	0.240	10	U		
Dibenzo(a,h)anthracene	0.770	2.0	0.770	10	U		
Fluoranthene	0.500	2.0	0.500	10	U		
Fluorene	5.59	10	5.59	10	U		
Indeno(1,2,3-cd)pyrene	0.800	2.0	0.800	10	U		
Naphthalene	3.59	10	170	10		J	S
Phenanthrene	2.87	10	2.87	10	U	L	D
Pyrene	0.680	2.0	0.680	10	U	L	D

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAS 2/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8310 Preparatory Method: 8310\3510C AAB # : WG125710

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-18-03-02-20 Lab Sample ID: L0209337-01 Matrix: Water

% Solids: 0 Initial Calibration ID: HPLC4 20-SEP-2002

Date Received: 19-SEP-02 Date Extracted: 19-SEP-02 Date Analyzed: 25-SEP-02 17:41

Concentration Units: % Recovery File ID: 4L003617.R

Analyte	MDL	RL	Concentration	Dilution	Qualifier

Surrogate	Recovery	Control Limits	Qualifier
p-terphenyl-d14		40 - 132	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

NB 11/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8310 Preparatory Method: 8310\3510C AAB # : WG125710

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-5I-03-02-20 Lab Sample ID: L0209337-02 Matrix: Water

% Solids: 0 Initial Calibration ID: HPLC4 20-SEP-2002

Date Received: 19-SEP-02 Date Extracted: 19-SEP-02 Date Analyzed: 22-SEP-02 18:21

Concentration Units: ug/L File ID: 4L003607.R

Qual Code

Analyte	MDL	RL	Concentration	Dilution	Qualifier		
1-Methylnaphthalene	0.385	1.1	0.385	1	U	UJ	S
2-Methylnaphthalene	0.357	1.1	0.357	1	U		
Acenaphthene	0.441	1.1	0.441	1	U		
Acenaphthylene	0.373	1.1	0.373	1	U		
Anthracene	0.303	1.1	0.303	1	U		
Benzo(a)anthracene	0.0319	0.21	0.0319	1	U		
Benzo(a)pyrene	0.0564	0.21	0.0564	1	U		
Benzo(b)fluoranthene	0.0362	0.21	0.0362	1	U		
Benzo(g,h,i)perylene	0.0532	0.21	0.0532	1	U		
Benzo(k)fluoranthene	0.0766	0.21	0.0766	1	U		
Chrysene	0.0255	0.21	0.0255	1	U		
Dibenzo(a,h)anthracene	0.0819	0.21	0.0819	1	U		
Fluoranthene	0.0532	0.21	0.0532	1	U		
Fluorene	0.595	1.1	0.595	1	U		
Indeno(1,2,3-cd)pyrene	0.0851	0.21	0.0851	1	U		
Naphthalene	0.382	1.1	0.382	1	U		
Phenanthrene	0.305	1.1	0.305	1	U		
Pyrene	0.0723	0.21	0.0723	1	U		

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAS 2/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8310 Preparatory Method: 8310\3510C AAB # : WG125710

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-5I-Q3-02-20 Lab Sample ID: L0209337-02 Matrix: Water

% Solids: 0 Initial Calibration ID: HPLC4 20-SEP-2002

Date Received: 19-SEP-02 Date Extracted: 19-SEP-02 Date Analyzed: 22-SEP-02 18:21

Concentration Units: % Recovery File ID: 4L003607.R

Analyte	MDL	RL	Concentration	Dilution	Qualifier

Surrogate	Recovery	Control Limits	Qualifier
p-terphenyl-d14	19.0	40 - 132	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAB 2/9/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8310 Preparatory Method: 8310\3510C AAB # : WG125710

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-6D-03-02-20 Lab Sample ID: L0209337-03 Matrix: Water

% Solids: 0 Initial Calibration ID: HPLC4 20-SEP-2002

Date Received: 19-SEP-02 Date Extracted: 19-SEP-02 Date Analyzed: 22-SEP-02 19:18

Concentration Units: ug/L File ID: 4L003608.R

Qual Code

Analyte	MDL	RL	Concentration	Dilution	Qualifier		
1-Methylnaphthalene	0.389	1.1	0.389	1	U	UJ	3
2-Methylnaphthalene	0.361	1.1	0.361	1	U		
Acenaphthene	0.446	1.1	0.446	1	U		
Acenaphthylene	0.377	1.1	0.377	1	U		
Anthracene	0.306	1.1	0.306	1	U		
Benzo(a)anthracene	0.0323	0.22	0.0323	1	U		
Benzo(a)pyrene	0.0570	0.22	0.0570	1	U		
Benzo(b)fluoranthene	0.0366	0.22	0.0366	1	U		
Benzo(g,h,i)perylene	0.0538	0.22	0.0538	1	U		
Benzo(k)fluoranthene	0.0774	0.22	0.0774	1	U		
Chrysene	0.0258	0.22	0.0258	1	U		
Dibenzo(a,h)anthracene	0.0828	0.22	0.0828	1	U		
Fluoranthene	0.0538	0.22	0.0538	1	U		
Fluorene	0.601	1.1	0.601	1	U		
Indeno(1,2,3-cd)pyrene	0.0860	0.22	0.0860	1	U		
Naphthalene	0.386	1.1	0.386	1	U		
Phenanthrene	0.309	1.1	0.309	1	U		
Pyrene	0.0731	0.22	0.0731	1	U		

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAB 2/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8310 Preparatory Method: 8310\3510C AAB # : WG125710

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-6D-03-02-20 Lab Sample ID: L0209337-03 Matrix: Water

% Solids: 0 Initial Calibration ID: HPLC4 20-SEP-2002

Date Received: 19-SEP-02 Date Extracted: 19-SEP-02 Date Analyzed: 22-SEP-02 19:18

Concentration Units: % Recovery File ID: 4L003608.R

Analyte	MDL	RL	Concentration	Dilution	Qualifier

Surrogate	Recovery	Control Limits	Qualifier
p-terphenyl-d14	24.3	40 - 132	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAB 2/19/03

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KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8310 Preparatory Method: 8310\3510C AAB # : WG125710

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-21I-03-02-20 Lab Sample ID: L0209337-04 Matrix: Water

% Solids: 0 Initial Calibration ID: HPLC4 20-SEP-2002

Date Received: 19-SEP-02 Date Extracted: 19-SEP-02 Date Analyzed: 22-SEP-02 20:14

Concentration Units: ug/L File ID: 4L003609.R

Qual Code

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1-Methylnaphthalene	0.362	1.0	0.362	1	U
2-Methylnaphthalene	0.336	1.0	0.336	1	U
Acenaphthene	0.415	1.0	0.415	1	U
Acenaphthylene	0.351	1.0	0.351	1	U
Anthracene	0.285	1.0	0.285	1	U
Benzo(a)anthracene	0.0300	0.20	0.0300	1	U
Benzo(a)pyrene	0.0530	0.20	0.0530	1	U
Benzo(b)fluoranthene	0.0340	0.20	0.0340	1	U
Benzo(g,h,i)perylene	0.0500	0.20	0.0500	1	U
Benzo(k)fluoranthene	0.0720	0.20	0.0720	1	U
Chrysene	0.0240	0.20	0.0240	1	U
Dibenzo(a,h)anthracene	0.0770	0.20	0.0770	1	U
Fluoranthene	0.0500	0.20	0.0500	1	U
Fluorene	0.559	1.0	0.559	1	U
Indeno(1,2,3-cd)pyrene	0.0800	0.20	0.0800	1	U
Naphthalene	0.359	1.0	0.359	1	U
Phenanthrene	0.287	1.0	0.287	1	U
Pyrene	0.0680	0.20	0.0680	1	U

UJ S

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAB 2/9/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8310 Preparatory Method: 8310\3510C AAB # : WG125710

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-21I-Q3-02-20 Lab Sample ID: L0209337-04 Matrix: Water

% Solids: 0 Initial Calibration ID: HPLC4 20-SEP-2002

Date Received: 19-SEP-02 Date Extracted: 19-SEP-02 Date Analyzed: 22-SEP-02 20:14

Concentration Units: % Recovery File ID: 4L003609.R

Analyte	MDL	RL	Concentration	Dilution	Qualifier

Surrogate	Recovery	Control Limits	Qualifier
p-terphenyl-d14	20.8	40 - 132	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAS 2/9/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8310 Preparatory Method: 8310\3510C AAB # : WG125710

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-24D-03-02-20 Lab Sample ID: L0209337-05 Matrix: Water

% Solids: 0 Initial Calibration ID: HPLC4 20-SEP-2002

Date Received: 19-SEP-02 Date Extracted: 19-SEP-02 Date Analyzed: 22-SEP-02 21:11

Concentration Units: ug/L File ID: 4L003610.R

Qual Code

Analyte	MDL	RL	Concentration	Dilution	Qualifier		
1-Methylnaphthalene	0.377	1.0	0.377	1	U	UJ	3
2-Methylnaphthalene	0.350	1.0	0.350	1	U		
Acenaphthene	0.432	1.0	0.432	1	U		
Acenaphthylene	0.366	1.0	0.366	1	U		
Anthracene	0.297	1.0	0.297	1	U		
Benzo(a)anthracene	0.0313	0.21	0.0313	1	U		
Benzo(a)pyrene	0.0552	0.21	0.0552	1	U		
Benzo(b)fluoranthene	0.0354	0.21	0.0354	1	U		
Benzo(g,h,i)perylene	0.0521	0.21	0.0521	1	U		
Benzo(k)fluoranthene	0.0750	0.21	0.0750	1	U		
Chrysene	0.0250	0.21	0.0250	1	U		
Dibenzo(a,h)anthracene	0.0802	0.21	0.0802	1	U		
Fluoranthene	0.0521	0.21	0.0521	1	U		
Fluorene	0.582	1.0	0.582	1	U		
Indeno(1,2,3-cd)pyrene	0.0833	0.21	0.0833	1	U		
Naphthalene	0.374	1.0	0.374	1	U		
Phenanthrene	0.299	1.0	0.299	1	U		
Pyrene	0.0708	0.21	0.0708	1	U		

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAB 2/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8310 Preparatory Method: 8310\3510C AAB # : WG125710

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-24D-Q3-02-20 Lab Sample ID: L0209337-05 Matrix: Water

% Solids: 0 Initial Calibration ID: HPLC4 20-SEP-2002

Date Received: 19-SEP-02 Date Extracted: 19-SEP-02 Date Analyzed: 22-SEP-02 21:11

Concentration Units: % Recovery File ID: 4L003610.R

Analyte	MDL	RL	Concentration	Dilution	Qualifier

Surrogate	Recovery	Control Limits	Qualifier
p-terphenyl-d14	21.8	40 - 132	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MKB 2/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8310 Preparatory Method: 8310\3510C AAB # : WG125710

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-25I-Q3-02-20 Lab Sample ID: L0209337-06 Matrix: Water

% Solids: 0 Initial Calibration ID: HPLC4 20-SEP-2002

Date Received: 19-SEP-02 Date Extracted: 19-SEP-02 Date Analyzed: 22-SEP-02 22:07

Concentration Units: ug/L File ID: 4L003611.R

Qual Code

Analyte	MDL	RL	Concentration	Dilution	Qualifier		
1-Methylnaphthalene	0.362	1.0	0.362	1	U	UJ	S
2-Methylnaphthalene	0.336	1.0	0.336	1	U		
Acenaphthene	0.415	1.0	0.415	1	U		
Acenaphthylene	0.351	1.0	0.351	1	U		
Anthracene	0.285	1.0	0.285	1	U		
Benzo(a)anthracene	0.0300	0.20	0.0300	1	U		
Benzo(a)pyrene	0.0530	0.20	0.0530	1	U		
Benzo(b)fluoranthene	0.0340	0.20	0.0340	1	U		
Benzo(g,h,i)perylene	0.0500	0.20	0.0500	1	U		
Benzo(k)fluoranthene	0.0720	0.20	0.0720	1	U		
Chrysene	0.0240	0.20	0.0240	1	U		
Dibenzo(a,h)anthracene	0.0770	0.20	0.0770	1	U		
Fluoranthene	0.0500	0.20	0.0500	1	U		
Fluorene	0.559	1.0	0.559	1	U		
Indeno(1,2,3-cd)pyrene	0.0800	0.20	0.0800	1	U		
Naphthalene	0.359	1.0	0.359	1	U		
Phenanthrene	0.287	1.0	0.287	1	U		
Pyrene	0.0680	0.20	0.0680	1	U		

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAB 2/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8310 Preparatory Method: 8310\3510C AAB # : WG125710

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-25I-03-02-20 Lab Sample ID: L0209337-06 Matrix: Water

% Solids: 0 Initial Calibration ID: HPLC4 20-SEP-2002

Date Received: 19-SEP-02 Date Extracted: 19-SEP-02 Date Analyzed: 22-SEP-02 22:07

Concentration Units: % Recovery File ID: 4L003611.R

Analyte	MDL	RL	Concentration	Dilution	Qualifier

Surrogate	Recovery	Control Limits	Qualifier
p-terphenyl-d14	14.9	40 - 132	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAB 2/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8310 Preparatory Method: 8310\3510C AAB # : WG125710

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-26I-03-02-20 Lab Sample ID: L0209337-07 Matrix: Water

% Solids: 0 Initial Calibration ID: HPLC4 20-SEP-2002

Date Received: 19-SEP-02 Date Extracted: 19-SEP-02 Date Analyzed: 23-SEP-02 00:01

Concentration Units: ug/L File ID: 4L003613.R

Qual Code

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1-Methylnaphthalene	0.385	1.1	0.385	1	U
2-Methylnaphthalene	0.357	1.1	0.357	1	U
Acenaphthene	0.441	1.1	0.441	1	U
Acenaphthylene	0.373	1.1	0.373	1	U
Anthracene	0.303	1.1	0.303	1	U
Benzo(a)anthracene	0.0319	0.21	0.0319	1	U
Benzo(a)pyrene	0.0564	0.21	0.0564	1	U
Benzo(b)fluoranthene	0.0362	0.21	0.0362	1	U
Benzo(g,h,i)perylene	0.0532	0.21	0.0532	1	U
Benzo(k)fluoranthene	0.0766	0.21	0.0766	1	U
Chrysene	0.0255	0.21	0.0255	1	U
Dibenzo(a,h)anthracene	0.0819	0.21	0.0819	1	U
Fluoranthene	0.0532	0.21	0.0532	1	U
Fluorene	0.595	1.1	0.595	1	U
Indeno(1,2,3-cd)pyrene	0.0851	0.21	0.0851	1	U
Naphthalene	0.382	1.1	0.382	1	U
Phenanthrene	0.305	1.1	0.305	1	U
Pyrene	0.0723	0.21	0.0723	1	U

UJ 3

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAS 2/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8310 Preparatory Method: 8310\3510C AAB # : WG125710

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-26I-Q3-02-20 Lab Sample ID: L0209337-07 Matrix: Water

% Solids: 0 Initial Calibration ID: HPLC4 20-SEP-2002

Date Received: 19-SEP-02 Date Extracted: 19-SEP-02 Date Analyzed: 23-SEP-02 00:01

Concentration Units: % Recovery File ID: 4L003613.R

Analyte	MDL	RL	Concentration	Dilution	Qualifier

Surrogate	Recovery	Control Limits	Qualifier
p-terphenyl-d14	20.3	40 - 132	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAK 2/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8015 MOD Preparatory Method: 8015 MOD\3510C AAB # : WG125690

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-1S-03-02-20 Lab Sample ID: L0209337-01 Matrix: Water

% Solids: 0 Initial Calibration ID: HP2 30-SEP-2002

Date Received: 19-SEP-02 Date Extracted: 19-SEP-02 Date Analyzed: 01-OCT-02 14:46

Concentration Units: ug/L File ID: 2G22293

Analyte	MDL	RL	Concentration	Dilution	Qualifier
TRPH-Florida PRO	2630	5260	15300	10	

Surrogate	Recovery	Control Limits	Qualifier
o-Terphenyl		49 - 174	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAS 2/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8015 MOD Preparatory Method: 8015 MOD\3510C AAB # : WG125690

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-5I-03-02-20 Lab Sample ID: L0209337-02 Matrix: Water

% Solids: 0 Initial Calibration ID: HP2 30-SEP-2002

Date Received: 19-SEP-02 Date Extracted: 19-SEP-02 Date Analyzed: 30-SEP-02 23:45

Concentration Units: ug/L File ID: 2G22249

Qual Code

Analyte	MDL	RL	Concentration	Dilution	Qualifier
TRPH-Florida PRO	275	549	776	1	U F

Surrogate	Recovery	Control Limits	Qualifier
o-Terphenyl	54.1	49 - 174	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAS 2/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8015 MOD Preparatory Method: 8015 MOD\3510C AAB # : WG125690

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-6D-Q3-02-20 Lab Sample ID: L0209337-03 Matrix: Water

% Solids: 0 Initial Calibration ID: HP2 30-SEP-2002

Date Received: 19-SEP-02 Date Extracted: 19-SEP-02 Date Analyzed: 01-OCT-02 00:01

Concentration Units: ug/L File ID: 2G22250

Qual Code

Analyte	MDL	RL	Concentration	Dilution	Qualifier
TRPH-Florida PRO	275	549	840	1	U F

Surrogate	Recovery	Control Limits	Qualifier
o-Terphenyl	58.9	49 - 174	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

AAB 2/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8015 MOD Preparatory Method: 8015 MOD\3510C AAB # : WG125690

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-21I-03-02-20 Lab Sample ID: L0209337-04 Matrix: Water

% Solids: 0 Initial Calibration ID: HP2 30-SEP-2002

Date Received: 19-SEP-02 Date Extracted: 19-SEP-02 Date Analyzed: 01-OCT-02 00:16

Concentration Units: ug/L File ID: 2G22251

Qual Code

Analyte	MDL	RL	Concentration	Dilution	Qualifier
TRPH-Florida PRO	260	521	834	1	U F

Surrogate	Recovery	Control Limits	Qualifier
o-Terphenyl	63.6	49 - 174	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAS 2/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8015 MOD Preparatory Method: 8015 MOD\3510C AAB # : WG125690

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-24D-03-02-20 Lab Sample ID: L0209337-05 Matrix: Water

% Solids: 0 Initial Calibration ID: HP2 30-SEP-2002

Date Received: 19-SEP-02 Date Extracted: 19-SEP-02 Date Analyzed: 01-OCT-02 00:32

Concentration Units: ug/L File ID: 2G22252

Qual Code

Analyte	MDL	RL	Concentration	Dilution	Qualifier
TRPH-Florida PRO	255	510	779	1	U F

Surrogate	Recovery	Control Limits	Qualifier
o-Terphenyl	63.1	49 - 174	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

NAB 2/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8015 MOD Preparatory Method: 8015 MOD\3510C AAB # : WG125690

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-25I-Q3-02-20 Lab Sample ID: L0209337-06 Matrix: Water

% Solids: 0 Initial Calibration ID: HP2 30-SEP-2002

Date Received: 19-SEP-02 Date Extracted: 19-SEP-02 Date Analyzed: 01-OCT-02 01:17

Concentration Units: ug/L File ID: 2G22255

Qual Code

Analyte	MDL	RL	Concentration	Dilution	Qualifier
TRPH-Florida PRO	250	500	810	1	U F

Surrogate	Recovery	Control Limits	Qualifier
o-Terphenyl	64.9	49 - 174	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAB 7/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8015 MOD Preparatory Method: 8015 MOD\3510C AAB # : WG125690

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-26I-03-02-20 Lab Sample ID: L0209337-07 Matrix: Water

% Solids: 0 Initial Calibration ID: HP2 30-SEP-2002

Date Received: 19-SEP-02 Date Extracted: 19-SEP-02 Date Analyzed: 01-OCT-02 01:33

Concentration Units: ug/L File ID: 2G22256

Qual Code

Analyte	MDL	RL	Concentration	Dilution	Qualifier
TRPH-Florida PRO	269	538	1350	1	u F

Surrogate	Recovery	Control Limits	Qualifier
o-Terphenyl	96.8	49 - 174	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

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MAS 2/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 9056 Preparatory Method: 9056 AAB # : WG125720

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-1S-03-02-20 Lab Sample ID: L0209337-01 Matrix: Water

% Solids: 0 Initial Calibration ID: IC2 19-SEP-02

Date Received: 19-SEP-02 Date Extracted: Date Analyzed: 19-SEP-02 18:57

Concentration Units: mg/L File ID: 091902.39

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Nitrate	0.0670	0.60	0.0670	1	U
Nitrite	0.0610	0.40	0.0610	1	U
Phosphate	0.163	1.0	0.163	1	U

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAB 2/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 9056 Preparatory Method: 9056 AAB # : WG125720

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-5I-Q3-02-20 Lab Sample ID: L0209337-02 Matrix: Water

% Solids: 0 Initial Calibration ID: IC2 19-SEP-02

Date Received: 19-SEP-02 Date Extracted: Date Analyzed: 19-SEP-02 18:00

Concentration Units: mg/L File ID: 091902.34

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Nitrate	1.34	12	1.34	20	U
Nitrite	1.22	8.0	1.22	20	U
Phosphate	3.26	20	3.26	20	U

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

RAH 2/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 9056 Preparatory Method: 9056 AAB # : WQ125720

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-6D-Q3-02-20 Lab Sample ID: L0209337-03 Matrix: Water

% Solids: 0 Initial Calibration ID: IC2 19-SEP-02

Date Received: 19-SEP-02 Date Extracted: Date Analyzed: 19-SEP-02 17:48

Concentration Units: mg/L File ID: 091902.33

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Nitrate	1.34	12	1.34	20	U
Nitrite	1.22	8.0	1.22	20	U
Phosphate	3.26	20	3.26	20	U

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAH 2/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 9056 Preparatory Method: 9056 AAB # : WG125720

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-21I-03-02-20 Lab Sample ID: L0209337-04 Matrix: Water

% Solids: 0 Initial Calibration ID: IC2 19-SEP-02

Date Received: 19-SEP-02 Date Extracted: Date Analyzed: 19-SEP-02 18:34

Concentration Units: mg/L File ID: 091902.37

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Nitrate	0.134	1.2	0.134	2	U
Nitrite	0.122	0.80	0.122	2	U
Phosphate	0.326	2.0	0.326	2	U

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAH 2/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 9056 Preparatory Method: 9056 AAB # : WG125720

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-24D-03-02-20 Lab Sample ID: L0209337-05 Matrix: Water

% Solids: 0 Initial Calibration ID: IC2 19-SEP-02

Date Received: 19-SEP-02 Date Extracted: Date Analyzed: 19-SEP-02 18:46

Concentration Units: mg/L File ID: 091902.38

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Nitrate	0.0670	0.60	0.0670	1	U
Nitrite	0.0610	0.40	0.0610	1	U
Phosphate	0.163	1.0	0.163	1	U

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAB 2/19/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 9056 Preparatory Method: 9056 AAB # : WG125720

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-25I-Q3-02-20 Lab Sample ID: L0209337-06 Matrix: Water

% Solids: 0 Initial Calibration ID: IC2 19-SEP-02

Date Received: 19-SEP-02 Date Extracted: Date Analyzed: 19-SEP-02 18:23

Concentration Units: mg/L File ID: 091902.36

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Nitrate	0.134	1.2	0.134	2	U
Nitrite	0.122	0.80	0.122	2	U
Phosphate	0.326	2.0	0.326	2	U

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAH 2/19/02

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 9056 Preparatory Method: 9056 AAB # : WG125720

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-26I-03-02-20 Lab Sample ID: L0209337-07 Matrix: Water

% Solids: 0 Initial Calibration ID: IC2 19-SEP-02

Date Received: 19-SEP-02 Date Extracted: Date Analyzed: 19-SEP-02 18:11

Concentration Units: mg/L File ID: 091902.35

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Nitrate	0.670	6.0	0.670	10	U
Nitrite	0.610	4.0	0.610	10	U
Phosphate	1.63	10	1.63	10	U

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

2/19/03

Validated Chemical Test Results from Work Order L0209516

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8021B Preparatory Method: 8021B\5030B AAB # : WG126238

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-SB1-S-03-02 Lab Sample ID: L0209516-01 Matrix: Soil

% Solids: 81.9 Initial Calibration ID: HP5 25-SEP-2002

Date Received: 27-SEP-02 Date Extracted: Date Analyzed: 30-SEP-02 16:56

Concentration Units: ug/kg File ID: 5G14936

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Benzene	594	1190	2170	1000	
Ethylbenzene	594	1190	97700	1000	
Methyl tert-butyl ether	594	1190	594	1000	U
Toluene	594	1190	10700	1000	
Xylenes, Total	594	3560	532000	1000	

Surrogate	Recovery	Control Limits	Qualifier
a,a,a-Trifluorotoluene	118	47 - 121	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

2/20/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8021B Preparatory Method: 8021B\5030B AAB # : WG126238

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-SB2-S-Q3-02 Lab Sample ID: L0209516-02 Matrix: Soil

% Solids: 85.7 Initial Calibration ID: HP5 25-SEP-2002

Date Received: 27-SEP-02 Date Extracted: _____ Date Analyzed: 30-SEP-02 18:20

Concentration Units: ug/kg File ID: 5G14938

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Benzene	602	1200	746	1000	J
Ethylbenzene	602	1200	9150	1000	
Methyl tert-butyl ether	602	1200	602	1000	U
Toluene	602	1200	22000	1000	
Xylenes, Total	602	3610	274000	1000	

Surrogate	Recovery	Control Limits	Qualifier
a,a,a-Trifluorotoluene	92.3	47 - 121	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAH 2/20/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8021B Preparatory Method: 8021B\5030B AAB # : WG126148

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-SB14-S-03-02 Lab Sample ID: L0209516-03 Matrix: Soil

% Solids: 88 Initial Calibration ID: HP11 16-AUG-2002

Date Received: 27-SEP-02 Date Extracted: Date Analyzed: 27-SEP-02 13:44

Concentration Units: ug/kg File ID: 11G14587

Qual Code

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Benzene	0.545	1.09	0.545	1	U
Ethylbenzene	0.545	1.09	24.9	1	J S
Methyl tert-butyl ether	0.545	1.09	3.68	1	J S
Toluene	0.545	1.09	0.545	1	U
Xylenes, Total	0.545	3.27	23.4	1	J S

Surrogate	Recovery	Control Limits	Qualifier
a,a,a-Trifluorotoluene	408	47 - 121	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAB 2/20/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8021B Preparatory Method: 8021B\5030B AAB # : WG126114

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-EQB-W-Q3-02 Lab Sample ID: L0209516-04 Matrix: Water

% Solids: 0 Initial Calibration ID: HP5 25-SEP-2002

Date Received: 27-SEP-02 Date Extracted: Date Analyzed: 27-SEP-02 17:45

Concentration Units: ug/L File ID: 5G14921

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Benzene	0.500	1.00	0.500	1	U
Ethylbenzene	0.500	1.00	0.500	1	U
Methyl tert-butyl ether	0.500	1.00	0.500	1	U
Toluene	0.500	1.00	0.500	1	U
Xylenes, Total	0.500	1.00	0.500	1	U

Surrogate	Recovery	Control Limits	Qualifier
a,a,a-Trifluorotoluene	93.4	70 - 130	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

2/20/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8021B Preparatory Method: 8021B\5030B AAB # : WG126114

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-TB-W-Q3-02 Lab Sample ID: L0209516-05 Matrix: Water

% Solids: 0 Initial Calibration ID: HP5 25-SEP-2002

Date Received: 27-SEP-02 Date Extracted: Date Analyzed: 27-SEP-02 18:20

Concentration Units: ug/L File ID: 5G14922

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Benzene	0.500	1.00	0.500	1	U
Ethylbenzene	0.500	1.00	0.500	1	U
Methyl tert-butyl ether	0.500	1.00	0.500	1	U
Toluene	0.500	1.00	0.500	1	U
Xylenes, Total	0.500	1.00	0.500	1	U

Surrogate	Recovery	Control Limits	Qualifier
a,a,a-Trifluorotoluene	92.3	70 - 130	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAS 4/20/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8310 Preparatory Method: 8310\3550B AAB # : WG126623

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-SB1-S-03-02 Lab Sample ID: L0209516-01 Matrix: Soil

% Solids: 81.9 Initial Calibration ID: HPLC4 04-OCT-2002

Date Received: 27-SEP-02 Date Extracted: 02-OCT-02 Date Analyzed: 06-OCT-02 15:02

Concentration Units: ug/kg File ID: 4L003680.R

Qual Code

Analyte	MDL	RL	Concentration	Dilution	Qualifier		
1-Methylnaphthalene	6.39	200	3700	1	J	R	D
2-Methylnaphthalene	5.56	200	15000	1	I	R	D
Acenaphthene	68.2	200	68.2	1	U		
Acenaphthylene	54.8	200	54.8	1	U		
Anthracene	50.0	200	50.0	1	U		
Benzo(a)anthracene	4.63	20	32.0	1	J		
Benzo(a)pyrene	3.53	20	11.0	1	J		
Benzo(b)fluoranthene	5.85	20	15.0	1	J		
Benzo(g,h,i)perylene	4.39	20	12.0	1	J		
Benzo(k)fluoranthene	2.44	20	22.0	1	J		
Chrysene	4.63	20	4.63	1	U		
Dibenzo(a,h)anthracene	5.48	20	17.0	1	J		
Fluoranthene	4.51	20	54.0	1	J		
Fluorene	69.5	200	69.5	1	U		
Indeno(1,2,3-cd)pyrene	3.90	20	3.90	1	U		
Naphthalene	76.8	200	10000	1	I	R	D
Phenanthrene	57.3	200	270	1	J		
Pyrene	4.51	20	17.0	1	J		

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

2/20/03

2R

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8310 Preparatory Method: 8310\3550B AAB # : WG126623

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-SB1-S-Q3-02 Lab Sample ID: L0209516-01 Matrix: Soil

% Solids: 81.9 Initial Calibration ID: HPLC4 04-OCT-2002

Date Received: 27-SEP-02 Date Extracted: 02-OCT-02 Date Analyzed: 06-OCT-02 15:02

Concentration Units: % Recovery File ID:4L003680.R

Analyte	MDL	RL	Concentration	Dilution	Qualifier

Surrogate	Recovery	Control Limits	Qualifier
p-terphenyl-d14	121	50 - 150	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MK 2/20/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8310 Preparatory Method: 8310\3550B AAB # : WG126623

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-SB1-S-Q3-02 Lab Sample ID: L0209516-01 Matrix: Soil

% Solids: 81.9 Initial Calibration ID: HPLC4 04-OCT-2002

Date Received: 27-SEP-02 Date Extracted: 02-OCT-02 Date Analyzed: 14-OCT-02 20:11

Concentration Units: ug/kg File ID: 4L003718.R

Qual Code

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1-Methylnaphthalene	63.9	2010	4410	10	
2-Methylnaphthalene	55.6	2010	25400	10	
Acenaphthene	682	2010	682	10	U R D
Acenaphthylene	548	2010	548	10	U
Anthracene	500	2010	500	10	U
Benzo(a)anthracene	46.3	201	46.3	10	U
Benzo(a)pyrene	35.3	201	35.3	10	U
Benzo(b)fluoranthene	58.5	201	58.5	10	U
Benzo(g,h,i)perylene	43.9	201	43.9	10	U
Benzo(k)fluoranthene	24.4	201	24.4	10	U
Chrysene	46.3	201	46.3	10	U
Dibenzo(a,h)anthracene	54.8	201	54.8	10	U
Fluoranthene	45.1	201	45.1	10	U
Fluorene	695	2010	695	10	U
Indeno(1,2,3-cd)pyrene	39.0	201	39.0	10	U
Naphthalene	768	2010	20700	10	
Phenanthrene	573	2010	573	10	U R D
Pyrene	45.1	201	45.1	10	U

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAS 2/20/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8310 Preparatory Method: 8310\3550B AAB # : WQ126623

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-SB1-S-Q3-02 Lab Sample ID: L0209516-01 Matrix: Soil

% Solids: 81.9 Initial Calibration ID: HPLC4 04-OCT-2002

Date Received: 27-SEP-02 Date Extracted: 02-OCT-02 Date Analyzed: 14-OCT-02 20:11

Concentration Units: % Recovery File ID: 4L003718.R

Analyte	MDL	RL	Concentration	Dilution	Qualifier

Surrogate	Recovery	Control Limits	Qualifier
p-terphenyl-d14	138	50 - 150	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MHH 2/20/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8310 Preparatory Method: 8310\3550B AAB # : WG126623

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-SB2-S-Q3-02 Lab Sample ID: L0209516-02 Matrix: Soil

% Solids: 85.7 Initial Calibration ID: HPLC4 04-OCT-2002

Date Received: 27-SEP-02 Date Extracted: 02-OCT-02 Date Analyzed: 06-OCT-02 15:59

Concentration Units: ug/kg File ID: 4L003681.R

Analyte	MDL	RL	Concentration	Dilution	Qualifier	Qual Code	
1-Methylnaphthalene	6.11	190	6700	1	I	R	D
2-Methylnaphthalene	5.32	190	15000	1	I	R	D
Acenaphthene	65.3	190	65.3	1	U		
Acenaphthylene	52.5	190	52.5	1	U		
Anthracene	47.8	190	47.8	1	U		
Benzo(a)anthracene	4.43	19	120	1	J	J	S
Benzo(a)pyrene	3.38	19	29.0	1			
Benzo(b)fluoranthene	5.60	19	30.0	1	J		
Benzo(g,h,i)perylene	4.20	19	16.0	1	J		
Benzo(k)fluoranthene	2.33	19	42.0	1	J		
Chrysene	4.43	19	4.43	1	U		
Dibenzo(a,h)anthracene	5.25	19	32.0	1	J	J	S
Fluoranthene	4.31	19	170	1	J	J	S
Fluorene	66.4	190	66.4	1	U		
Indeno(1,2,3-cd)pyrene	3.73	19	7.90	1	J	J	S
Naphthalene	73.4	190	11000	1	I	R	D
Phenanthrene	54.8	190	990	1		J	S
Pyrene	4.31	19	60.0	1	J	J	S

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAB 2/20/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8310 Preparatory Method: 8310\3550B AAB # : WG126623

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CSF46-SB2-S-Q3-02 Lab Sample ID: L0209516-02 Matrix: Soil

% Solids: 85.7 Initial Calibration ID: HPLC4 04-OCT-2002

Date Received: 27-SEP-02 Date Extracted: 02-OCT-02 Date Analyzed: 06-OCT-02 15:59

Concentration Units: % Recovery File ID: 4L003681.R

Analyte	MDL	RL	Concentration	Dilution	Qualifier

Surrogate	Recovery	Control Limits	Qualifier
p-terphenyl-d14	184	50 - 150	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAS 2/20/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8310 Preparatory Method: 8310\3550B AAB # : WG126623

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-SB2-S-Q3-02 Lab Sample ID: L0209516-02 Matrix: Soil

% Solids: 85.7 Initial Calibration ID: HPLC4 04-OCT-2002

Date Received: 27-SEP-02 Date Extracted: 02-OCT-02 Date Analyzed: 16-OCT-02 23:32

Concentration Units: ug/kg File ID: 4L003727.R

Qual Calc

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1-Methylnaphthalene	61.1	1920	7980	10	
2-Methylnaphthalene	53.2	1920	23900	10	
Acenaphthene	653	1920	653	10	U R D
Acenaphthylene	525	1920	525	10	U
Anthracene	478	1920	478	10	U
Benzo(a)anthracene	44.3	192	44.3	10	U
Benzo(a)pyrene	33.8	192	33.8	10	U
Benzo(b)fluoranthene	56.0	192	56.0	10	U
Benzo(g,h,i)perylene	42.0	192	42.0	10	U
Benzo(k)fluoranthene	23.3	192	23.3	10	U
Chrysene	44.3	192	44.3	10	U
Dibenzo(a,h)anthracene	52.5	192	52.5	10	U
Fluoranthene	43.1	192	43.1	10	U
Fluorene	664	1920	664	10	U
Indeno(1,2,3-cd)pyrene	37.3	192	37.3	10	U
Naphthalene	734	1920	21100	10	
Phenanthrene	548	1920	548	10	U R D
Pyrene	43.1	192	43.1	10	U

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAH 2/20/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8310 Preparatory Method: 8310\3550B AAB # : WG126623

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-SB2-S-Q3-02 Lab Sample ID: L0209516-02 Matrix: Soil

% Solids: 85.7 Initial Calibration ID: HPLC4 04-OCT-2002

Date Received: 27-SEP-02 Date Extracted: 02-OCT-02 Date Analyzed: 16-OCT-02 23:32

Concentration Units: % Recovery File ID: 4L003727.R

Analyte	MDL	RL	Concentration	Dilution	Qualifier

Surrogate	Recovery	Control Limits	Qualifier
p-terphenyl-d14	192	50 - 150	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAG 2/20/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8310 Preparatory Method: 8310\3550B AAB # : WG126623

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-SB14-S-Q3-02 Lab Sample ID: L0209516-03 Matrix: Soil

% Solids: 88 Initial Calibration ID: HPLC4 04-OCT-2002

Date Received: 27-SEP-02 Date Extracted: 02-OCT-02 Date Analyzed: 06-OCT-02 16:55

Concentration Units: ug/kg File ID:4L003682.R

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1-Methylnaphthalene	5.95	190	19.0	1	J
2-Methylnaphthalene	5.18	190	66.0	1	J
Acenaphthene	63.5	190	63.5	1	U
Acenaphthylene	51.1	190	51.1	1	U
Anthracene	46.5	190	46.5	1	U
Benzo(a)anthracene	4.31	19	4.31	1	U
Benzo(a)pyrene	3.29	19	62.0	1	J
Benzo(b)fluoranthene	5.45	19	30.0	1	
Benzo(g,h,i)perylene	4.08	19	4.08	1	U
Benzo(k)fluoranthene	2.27	19	18.0	1	J
Chrysene	4.31	19	380	1	J
Dibenzo(a,h)anthracene	5.11	19	59.0	1	J
Fluoranthene	4.20	19	11.0	1	J
Fluorene	64.7	190	64.7	1	U
Indeno(1,2,3-cd)pyrene	3.63	19	3.63	1	U
Naphthalene	71.5	190	71.5	1	U
Phenanthrene	53.3	190	53.3	1	U
Pyrene	4.20	19	9.90	1	J

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MH 8/20/03

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KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8310 Preparatory Method: 8310\3550B AAB # : WG126623

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-SB14-S-Q3-02 Lab Sample ID: L0209516-03 Matrix: Soil

% Solids: 88 Initial Calibration ID: HPLC4 04-OCT-2002

Date Received: 27-SEP-02 Date Extracted: 02-OCT-02 Date Analyzed: 06-OCT-02 16:55

Concentration Units: % Recovery File ID:4L003682.R

Analyte	MDL	RL	Concentration	Dilution	Qualifier

Surrogate	Recovery	Control Limits	Qualifier
p-terphenyl-d14	90.5	50 - 150	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MHS 2/20/05

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8310 Preparatory Method: 8310\3510C AAB # : WG126624

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-EQB-W-03-02 Lab Sample ID: L0209516-04 Matrix: Water

% Solids: 0 Initial Calibration ID: HPLC4 04-OCT-2002

Date Received: 27-SEP-02 Date Extracted: 03-OCT-02 Date Analyzed: 06-OCT-02 13:09

Concentration Units: ug/L File ID: 4L003678.R

Qual/ Code

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1-Methylnaphthalene	0.398	1.1	0.398	1	U
2-Methylnaphthalene	0.369	1.1	0.369	1	U
Acenaphthene	0.456	1.1	0.456	1	U
Acenaphthylene	0.386	1.1	0.386	1	U
Anthracene	0.313	1.1	0.340	1	J U F
Benzo(a)anthracene	0.0330	0.22	0.0330	1	U
Benzo(a)pyrene	0.0582	0.22	0.0582	1	U
Benzo(b)fluoranthene	0.0374	0.22	0.0374	1	U
Benzo(g,h,i)perylene	0.0549	0.22	0.0549	1	U
Benzo(k)fluoranthene	0.0791	0.22	0.0791	1	U
Chrysene	0.0264	0.22	0.0264	1	U
Dibenzo(a,h)anthracene	0.0846	0.22	0.0846	1	U
Fluoranthene	0.0549	0.22	0.0549	1	U
Fluorene	0.614	1.1	0.614	1	U
Indeno(1,2,3-cd)pyrene	0.0879	0.22	0.0879	1	U
Naphthalene	0.395	1.1	0.395	1	U
Phenanthrene	0.315	1.1	0.315	1	U
Pyrene	0.0747	0.22	0.0747	1	U

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MB 2/20/03

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KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8310 Preparatory Method: 8310\3510C AAB # : WG126624

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-EQB-W-Q3-02 Lab Sample ID: L0209516-04 Matrix: Water

% Solids: 0 Initial Calibration ID: HPLC4 04-OCT-2002

Date Received: 27-SEP-02 Date Extracted: 03-OCT-02 Date Analyzed: 06-OCT-02 13:09

Concentration Units: % Recovery File ID: 4L003678.R

Analyte	MDL	RL	Concentration	Dilution	Qualifier

Surrogate	Recovery	Control Limits	Qualifier
p-terphenyl-d14	37.9	40 - 132	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAK 2/20/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8015 MOD Preparatory Method: 8015 MOD\3550B AAB # : WG127556

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-SB1-S-03-02 Lab Sample ID: L0209516-01 Matrix: Soil

% Solids: 81.9 Initial Calibration ID: HP8 18-OCT-2002 21:52

Date Received: 27-SEP-02 Date Extracted: 02-OCT-02 Date Analyzed: 20-OCT-02 02:59

Concentration Units: ug/kg File ID: 8G03814

Analyte	MDL	RL	Concentration	Dilution	Qualifier
TRPH-Florida PRO	12200	24400	800000	2	

Surrogate	Recovery	Control Limits	Qualifier
o-Terphenyl	73.0	43 - 136	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAB 2/20/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8015 MOD Preparatory Method: 8015 MOD\3550B AAB # : WG127556

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-SB2-S-Q3-02 Lab Sample ID: L0209516-02 Matrix: Soil

% Solids: 85.7 Initial Calibration ID: HP8 18-OCT-2002 21:52

Date Received: 27-SEP-02 Date Extracted: 02-OCT-02 Date Analyzed: 21-OCT-02 00:10

Concentration Units: ug/kg File ID: 8G03837

Analyte	MDL	RL	Concentration	Dilution	Qualifier
TRPH-Florida PRO	29100	58300	970000	5	

Surrogate	Recovery	Control Limits	Qualifier
o-Terphenyl	70.0	43 – 136	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAB 2/20/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8015 MOD Preparatory Method: 8015 MOD\3550B AAB # : WG127556

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-SB14-S-Q3-02 Lab Sample ID: L0209516-03 Matrix: Soil

% Solids: 88 Initial Calibration ID: HP8 18-OCT-2002 21:52

Date Received: 27-SEP-02 Date Extracted: 02-OCT-02 Date Analyzed: 20-OCT-02 04:44

Concentration Units: ug/kg File ID: 8G03816

Analyte	MDL	RL	Concentration	Dilution	Qualifier
TRPH-Florida PRO	11300	22700	117000	2	

Surrogate	Recovery	Control Limits	Qualifier
o-Terphenyl	74.6	43 - 136	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAS 2/20/03

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KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8015 MOD Preparatory Method: 8015 MOD\3510C AAB # : WG127555

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-EQB-W-Q3-02 Lab Sample ID: L0209516-04 Matrix: Water

% Solids: 0 Initial Calibration ID: HP8 18-OCT-2002 21:52

Date Received: 27-SEP-02 Date Extracted: 03-OCT-02 Date Analyzed: 19-OCT-02 18:13

Concentration Units: ug/L File ID: 8G03804

Qual Code

Analyte	MDL	RL	Concentration	Dilution	Qualifier
TRPH-Florida PRO	291	581	1320	1	U F

Surrogate	Recovery	Control Limits	Qualifier
o-Terphenyl	74.4	49 - 174	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAH 2/20/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : D2216-90 Preparatory Method: D2216-90 AAB # : WG126335

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-SB1-S-03-02 Lab Sample ID: L0209516-01 Matrix: Soil

% Solids: 81.9 Initial Calibration ID: OVEN 01-OCT-02

Date Received: 27-SEP-02 Date Extracted: Date Analyzed: 01-OCT-02 10:40

Concentration Units: weight % File ID:

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Percent Solids	1.00	1.0	82.0	1	

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAH 2/20/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : D2216-90 Preparatory Method: D2216-90 AAB # : WG126335

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-SB2-S-03-02 Lab Sample ID: L0209516-02 Matrix: Soil

% Solids: 85.7 Initial Calibration ID: OVEN 01-OCT-02

Date Received: 27-SEP-02 Date Extracted: Date Analyzed: 01-OCT-02 10:40

Concentration Units: weight % File ID:

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Percent Solids	1.00	1.0	86.0	1	

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KAH 2/20/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : D2216-90 Preparatory Method: D2216-90 AAB # : WG126335

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF46-SB14-S-Q3-02 Lab Sample ID: L0209516-03 Matrix: Soil

% Solids: 88 Initial Calibration ID: OVEN 01-OCT-02

Date Received: 27-SEP-02 Date Extracted: Date Analyzed: 01-OCT-02 10:40

Concentration Units: weight % File ID:

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Percent Solids	1.00	1.0	88.0	1	

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAK 2/20/03

Validated Chemical Test Results from Work Order L0209517

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8021B Preparatory Method: 8021B\5030B AAB # : WG126148

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF9-SB1-S-03-02 Lab Sample ID: L0209517-01 Matrix: Soil

% Solids: 93.1 Initial Calibration ID: HP11 16-AUG-2002

Date Received: 27-SEP-02 Date Extracted: Date Analyzed: 27-SEP-02 14:18

Concentration Units: ug/kg File ID: 11G14588

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Benzene	0.559	1.12	0.559	1	U
Ethylbenzene	0.559	1.12	0.559	1	U
Methyl tert-butyl ether	0.559	1.12	0.559	1	U
Toluene	0.559	1.12	0.559	1	U
Xylenes, Total	0.559	3.35	0.559	1	U

Surrogate	Recovery	Control Limits	Qualifier
a,a,a-Trifluorotoluene	96.6	47 - 121	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

2/20/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8021B Preparatory Method: 8021B\5030B AAB # : WG126114

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF9-EQB-W-Q3-02 Lab Sample ID: L0209517-02 Matrix: Water

% Solids: 0 Initial Calibration ID: HP5 25-SEP-2002

Date Received: 27-SEP-02 Date Extracted: Date Analyzed: 27-SEP-02 18:54

Concentration Units: ug/L File ID: 5G14923

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Benzene	0.500	1.00	0.500	1	U
Ethylbenzene	0.500	1.00	0.500	1	U
Methyl tert-butyl ether	0.500	1.00	0.500	1	U
Toluene	0.500	1.00	0.500	1	U
Xylenes, Total	0.500	1.00	0.500	1	U

Surrogate	Recovery	Control Limits	Qualifier
a,a,a-Trifluorotoluene	92.8	70 - 130	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAS 2/20/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8021B Preparatory Method: 8021B\5030B AAB # : WG126114

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF9-TB-W-Q3-02 Lab Sample ID: L0209517-03 Matrix: Water

% Solids: 0 Initial Calibration ID: HP5 25-SEP-2002

Date Received: 27-SEP-02 Date Extracted: Date Analyzed: 27-SEP-02 19:29

Concentration Units: ug/L File ID: 5G14924

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Benzene	0.500	1.00	0.500	1	U
Ethylbenzene	0.500	1.00	0.500	1	U
Methyl tert-butyl ether	0.500	1.00	0.500	1	U
Toluene	0.500	1.00	0.500	1	U
Xylenes, Total	0.500	1.00	0.500	1	U

Surrogate	Recovery	Control Limits	Qualifier
a,a,a-Trifluorotoluene	93.8	70 - 130	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

2/20/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8310 Preparatory Method: 8310\3550B AAB # : WG126623

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF9-SB1-S-03-02 Lab Sample ID: L0209517-01 Matrix: Soil

% Solids: 93.1 Initial Calibration ID: HPLC4 04-OCT-2002

Date Received: 27-SEP-02 Date Extracted: 02-OCT-02 Date Analyzed: 06-OCT-02 17:52

Concentration Units: ug/kg File ID: 4L003683.R

Qual Code

Analyte	MDL	RL	Concentration	Dilution	Qualifier		
1-Methylnaphthalene	5.63	177	5.63	1	U	UJ	S
2-Methylnaphthalene	4.90	177	11.5	1	J	J	S
Acenaphthene	60.1	177	60.1	1	U	UJ	S
Acenaphthylene	48.3	177	48.3	1	U		
Anthracene	44.0	177	44.0	1	U		
Benzo(a)anthracene	4.08	17.7	49.4	1		J	S
Benzo(a)pyrene	3.11	17.7	201	1			
Benzo(b)fluoranthene	5.15	17.7	227	1			
Benzo(g,h,i)perylene	3.86	17.7	257	1			
Benzo(k)fluoranthene	2.15	17.7	91.1	1			
Chrysene	4.08	17.7	105	1			
Dibenzo(a,h)anthracene	4.83	17.7	143	1			
Fluoranthene	3.97	17.7	105	1	J		
Fluorene	61.2	177	61.2	1	U	UJ	S
Indeno(1,2,3-cd)pyrene	3.43	17.7	104	1	J	J	S
Naphthalene	67.6	177	67.6	1	U	UJ	S
Phenanthrene	50.4	177	50.4	1	U	UJ	S
Pyrene	3.97	17.7	188	1		J	S

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MHS 2/20/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8310 Preparatory Method: 8310\3550B AAB # : WG126623

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF9-SB1-S-Q3-02 Lab Sample ID: L0209517-01 Matrix: Soil

% Solids: 93.1 Initial Calibration ID: HPLC4 04-OCT-2002

Date Received: 27-SEP-02 Date Extracted: 02-OCT-02 Date Analyzed: 06-OCT-02 17:52

Concentration Units: % Recovery File ID: 4L003683.R

Analyte	MDL	RL	Concentration	Dilution	Qualifier

Surrogate	Recovery	Control Limits	Qualifier
p-terphenyl-d14	24.1	50 - 150	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

2/20/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8310 Preparatory Method: 8310\3510C AAB # : WG126624

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF9-EQB-W-03-02 Lab Sample ID: L0209517-02 Matrix: Water

% Solids: 0 Initial Calibration ID: HPLC4 04-OCT-2002

Date Received: 27-SEP-02 Date Extracted: 03-OCT-02 Date Analyzed: 06-OCT-02 14:06

Concentration Units: ug/L File ID: 4L003679.R

Qual Code

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1-Methylnaphthalene	0.385	1.1	0.385	1	U
2-Methylnaphthalene	0.357	1.1	0.357	1	U
Acenaphthene	0.441	1.1	0.441	1	U
Acenaphthylene	0.373	1.1	0.373	1	U
Anthracene	0.303	1.1	0.370	1	J U F
Benzo(a)anthracene	0.0319	0.21	0.0319	1	U
Benzo(a)pyrene	0.0564	0.21	0.0564	1	U
Benzo(b)fluoranthene	0.0362	0.21	0.0362	1	U
Benzo(g,h,i)perylene	0.0532	0.21	0.0532	1	U
Benzo(k)fluoranthene	0.0766	0.21	0.0766	1	U
Chrysene	0.0255	0.21	0.0255	1	U
Dibenzo(a,h)anthracene	0.0819	0.21	0.0819	1	U
Fluoranthene	0.0532	0.21	0.0532	1	U
Fluorene	0.595	1.1	0.595	1	U
Indeno(1,2,3-cd)pyrene	0.0851	0.21	0.0851	1	U
Naphthalene	0.382	1.1	0.382	1	U
Phenanthrene	0.305	1.1	0.390	1	J U F
Pyrene	0.0723	0.21	0.0723	1	U

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAS 2/20/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8310 Preparatory Method: 8310\3510C AAB # : WG126624

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF9-EQB-W-Q3-02 Lab Sample ID: L0209517-02 Matrix: Water

% Solids: 0 Initial Calibration ID: HPLC4 04-OCT-2002

Date Received: 27-SEP-02 Date Extracted: 03-OCT-02 Date Analyzed: 06-OCT-02 14:06

Concentration Units: % Recovery File ID: 4L003679.R

Analyte	MDL	RL	Concentration	Dilution	Qualifier

Surrogate	Recovery	Control Limits	Qualifier
p-terphenyl-d14	34.2	40 - 132	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MHS 2/20/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8015 MOD Preparatory Method: 8015 MOD\3550B AAB # : WG127556

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF9-SB1-S-03-02 Lab Sample ID: L0209517-01 Matrix: Soil

% Solids: 93.1 Initial Calibration ID: HP8 18-OCT-2002 21:52

Date Received: 27-SEP-02 Date Extracted: 02-OCT-02 Date Analyzed: 20-OCT-02 07:22

Concentration Units: ug/kg File ID: 8G03819

Analyte	MDL	RL	Concentration	Dilution	Qualifier
TRPH-Florida PRO	53600	107000	477000	10	

Surrogate	Recovery	Control Limits	Qualifier
o-Terphenyl		43 - 136	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAS 2/20/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 8015 MOD Preparatory Method: 8015 MOD\3510C AAB # : WG127555

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF9-EOB-W-03-02 Lab Sample ID: L0209517-02 Matrix: Water

% Solids: 0 Initial Calibration ID: HP8 18-OCT-2002 21:52

Date Received: 27-SEP-02 Date Extracted: 03-OCT-02 Date Analyzed: 19-OCT-02 19:05

Concentration Units: ug/L File ID: 8G03805

Qual Code

Analyte	MDL	RL	Concentration	Dilution	Qualifier
TRPH-Florida PRO	266	532	1250	1	U F

Surrogate	Recovery	Control Limits	Qualifier
o-Terphenyl	74.4	49 - 174	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAH 2/20/03

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : D2216-90 Preparatory Method: D2216-90 AAB # : WG126335

Lab Name : Kemron Environmental Services Contract#: Bill Canelos

Field Sample ID: 062-CEF9-SB1-S-Q3-02 Lab Sample ID: L0209517-01 Matrix: Soil

% Solids: 93.1 Initial Calibration ID: OVEN 01-OCT-02

Date Received: 27-SEP-02 Date Extracted: Date Analyzed: 01-OCT-02 10:40

Concentration Units: weight % File ID:

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Percent Solids	1.00	1.0	93.0	1	

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

MAK 2/20/03