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ANNUAL OPERATIONS AND MAINTENANCE STATUS REPORT FOR BIOVENTING AND BIOSPARGING SYSTEMS AT SOUTH FUEL FARM NAS CECIL FIELD FL

12/1/2002

CH2MHILL CONSTRUCTORS INC

Annual
Operations and Maintenance
Status Report

Bioventing and Biosparging Systems
South Fuel Farm
Naval Air Station Cecil Field
Jacksonville, Florida

June 1, 2001 –May 31, 2002

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

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A FDEP Annual Status Report Form

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Acronyms

ABB ES	ABB Environmental Services, Inc.
acfm	actual cubic feet per minute
AST	aboveground storage tank
BCT	BRAC Cleanup Team
bls	below land surface
BRAC	Base Realignment and Closure
BTEX	benzene, toluene, ethylbenzene, and xylene
CCI	CH2M HILL Constructors, Inc.
CLEAN	Comprehensive Long-term Environmental Action Navy
CTO	Contract Task Order
EMT	earth mounded tank
EPA	U.S. Environmental Protection Agency
^{o}F	degrees Fahrenheit
FAC	Florida Administrative Code
FDEP	Florida Department of Environmental Protection
FID	flame ionization detector
FL PRO	Florida Petroleum Residual Organic
J.A. Jones	J.A. Jones Environmental Services
JEA	Jacksonville Electric Authority
JP-5	jet propellant 5
LNAPL	light non-aqueous phase liquids
µg/L	micrograms per liter
mg/L	milligrams per liter
mS/cm	milliSeimens per centimeter
MTBE	methyl tert butyl ether
NAS	Naval Air Station
NAVFAC	Naval Facilities Engineering Command
NGVD	National Geodetic Vertical Datum
O&M	operation and maintenance
OVA	organic vapor analyzer
PAHs	polycyclic aromatic hydrocarbons
ppm	parts per million
psig	pounds per square inch gauge
PVC	polyvinyl chloride
RAP	Remedial Action Plan
scfm	standard cubic feet per minute
SCTL	soil cleanup target level
SFF	South Fuel Farm
TRPH	total recoverable petroleum hydrocarbon
UST	underground storage tank
VOCs	volatile organic compounds

1.0 Introduction

CH2M HILL Constructors, Inc. (CCI) with J.A. Jones Environmental Services Company (J.A. Jones) 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 South Fuel Farm (SFF), Former NAS Cecil Field, Jacksonville, Florida, under Response Action Contract No. N62467-98-D-0995, Contract Task Order (CTO) No. 0062. The purpose of this Annual O&M Status Report is to provide a summary of activities performed at the site during the period of June 1, 2001 to May 31, 2002. The Florida Department of Environmental Protection (FDEP) Annual Status Report Farm is provided in Appendix A.

1.1 Objective

The objective of the remedial action at the SFF is to reduce the concentrations of petroleum contaminants in the groundwater and unsaturated soils to Florida Department of Environmental Protection (FDEP) Groundwater Cleanup Target Levels (GCTLs) and Soil Cleanup Target Levels (SCTLs), as specified in Tables I and II of Chapter 62-777, Florida Administrative Code (FAC). Bioventing and biosparging are the two technologies currently utilized to achieve this objective.

1.2 Site History

The SFF site is located at the northern edge of the east-west runway at former NAS Cecil Field, in Jacksonville, Florida. The SFF was used as a fuel storage facility for leaded and unleaded gasoline, aviation gasoline, diesel fuel, and jet propellant 5 (JP-5). When fully operational, the facility contained three aboveground storage tanks (ASTs), four underground storage tanks (USTs), and four earth-mounded tanks (EMTs).

In 1983, the three ASTs were removed. In July 1994, the four USTs and three of the four EMTs were excavated. Excessively contaminated soil excavated during the tank removals was returned to the excavations. A contamination assessment was conducted to determine the nature and extent of contamination as required by Chapter 62-770 FAC. A remedial action plan (RAP) submitted in 1996 specified the recommended remedial action as enhanced intrinsic remediation through bioventing and biosparging combined with an oxygen barrier wall. Subsequent to RAP submittal, the Base Realignment and Closure (BRAC) Cleanup Team (BCT) agreed to implement remedial action activities for only the northern portion of the SFF site (Bechtel Environmental, Inc. [BEI], July 1998). The southern portion of the bioventing and biosparging systems and the oxygen barrier were subsequently deleted from the RAP by the BCT. Soil excavation was chosen as the remedial alternative for the southern portion of the SFF site. CCI/J.A. Jones Environmental Services (J.A. Jones) performed the soil excavation during the period of October 1998 to February 1999 (CCI, April 2001).

BEI installed the approved bioventing and biosparging systems for the northern portion of the SFF site during the period of December 1997 to March 1998. Startup of the bioventing and biosparging systems occurred on April 6, 1998 (BEI September 1998). BEI performed the O&M of the systems from April 1998 to April 1999. EnSafe, Inc. performed O&M of the systems from April 1999 to May 2001. CCI/J.A. Jones performed O&M of the systems from June 2001 to present.

1.3 Remediation System/Technology Description

1.3.1 Bioventing System

The bioventing system improves intrinsic bioremediation of the contaminated soil by delivering oxygen to the aerobic bacteria in the vadose zone. This is achieved via subgrade wells at a low flow rate to minimize volatilization and stimulate subgrade indigenous microbial activity (ABB Environmental Services, Inc. [ABB ES], October 1996).

The SFF bioventing system consists of nine 2-inch polyvinyl chloride (PVC) vertical bioventing wells, labeled as BV-1 through BV-9, that are screened from 3 to 8 feet below land surface (bls); and a fenced canopy covered compound containing a blower, inlet air filter, flow meter, pressure and temperature gauges, valving, piping, and system controls. The bioventing system is designed to deliver air to each bioventing well at a flow rate of 4 actual cubic feet per minute (acfm) at a well head pressure of 20 inches of water (ABB ES, October 1996). The locations of the bioventing wells are shown on Figure 1-1.

1.3.2 Biosparging System

The biosparging system is used to treat the groundwater source plume at the SFF 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 (ABB ES, October 1996).

The SFF biosparging system consists of 23 two-inch PVC vertical biosparging wells, labeled as BS-1 through BS-23, that are screened from 27 to 30 feet bls; and a fenced canopy covered compound containing a screw type air compressor, receiver tank, air dryer, in-line moisture separator, in-line coalescing oil filter, pressure regulator/gauge, header piping, valves, flow gauge, and system controls. The biosparging system is designed for each biosparging well to operate at a flow rate of 1 acfm at an injection pressure of 15 pounds per square inch gauge (psig) (ABB ES, October 1996). The locations of the biosparging wells are shown on Figure 1-1.

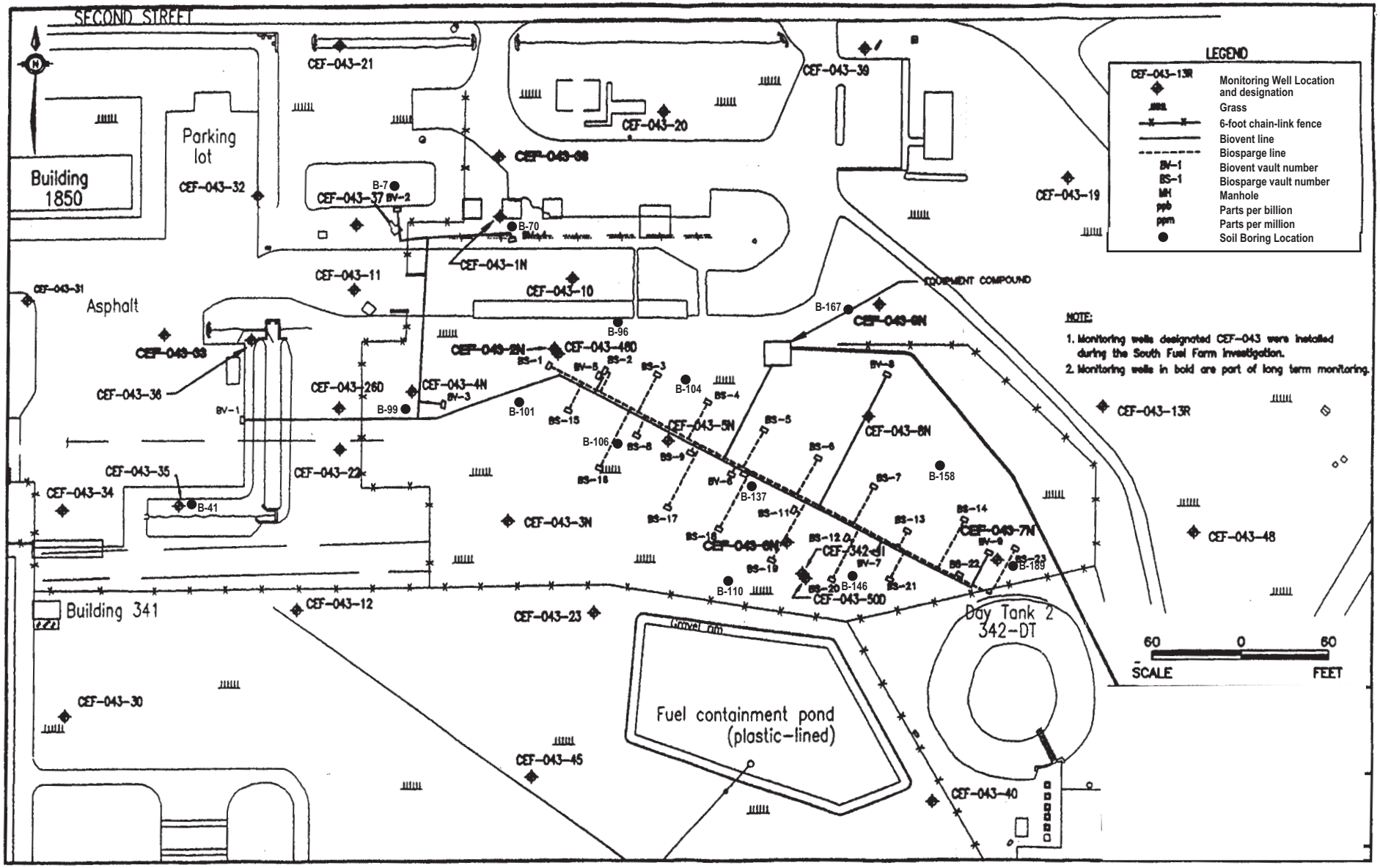


Figure 1-1
Site Map
South Fuel Farm
NAS Cecil Field, Jacksonville, Florida

CH2MHILL

A022002005ATL\Figure1-1.fh8

2.0 System Performance Monitoring

O&M checks of the system were performed on a weekly basis 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 are read and recorded during the O&M check. Well vault gauges and meters are read on monthly basis.

2.1 Operational Efficiencies

2.1.1 Bioventing System

	Period	To Date
Hours of Possible Operation	8,760	36,408
Hours of Actual Operation	8,741	20,437
Percent hours of Operation	99.8	56.1

2.1.2 Biosparging System

	Period	To Date
Hours of Possible Operation	8,760	36,408
Hours of Actual Operation	8,695	36,092
Percent hours of Operation	99.3	99.1

2.2 Summary of Maintenance and System Downtime

2.2.1 Bioventing System

During the period of June 1, 2001 to May 31, 2002, the bioventing system ran a total of 364.2 days out of a possible 365 days, resulting in 19 hours of downtime. The bioventing system downtime is detailed as follows:

- Down for a total of 7 hours for manual shutdowns to install a new electric meter and disconnect switch necessitated by a change in electrical service by Jacksonville Electric Authority (JEA).
- Down for a total of 8 hours due to a power outage by JEA on December 28, 2001.
- Down for a total of 4 hours to perform routine equipment maintenance and repairs.

2.2.2 Biosparging System

During the period of June 1, 2001 to May 31, 2002, the biosparging system ran a total of 362.3 days out of a possible 365 days, resulting in 65 hours of downtime. The biosparging system downtime is detailed as follows:

- Down for a total of 7 hours for manual shutdowns to install a new electric meter and disconnect switch necessitated by a change in electrical service by JEA.
- Down for a total of 8 hours due to a power outage by JEA on December 28, 2001.
- Down for a total of 48 hours due to a broken belt and an oil leak on the compressor. The belt was replaced and the oil leak was repaired, and the entire compressor was serviced by the manufacturer's representative and returned to operation.
- Down for a total of 2 hours to perform routine equipment maintenance.

2.3 Pressure/Flow Rate Monitoring

2.3.1 Bioventing System

During the June 1, 2001 to May 31, 2002 monitoring period, the blower discharge pressure averaged 39.2 inches of water compared to the design blower discharge pressure of 40 inches of water. The total air injection flow rate at the blower averaged 87.0 standard cubic feet per minute (scfm) compared to the design blower flow rate of 80 scfm. The data for the bioventing system are tabulated in Table 2-1.

TABLE 2-1
Bioventing System Data

Date	Blower Discharge Pressure (inches of water)	Blower Discharge Temperature (°F)	Blower Inlet Air Flow Rate (scfm)
06/20/2001	48	138	80
06/25/2001	48	138	80
07/02/2001	NR	80	75
07/12/2001	48	130	1
07/17/2001	48	134	80
07/24/2001	48	122	75
07/30/2001	48	126	78
08/06/2001	NR	70	NR
08/14/2001	48	135	75
08/23/2001	47	136	75
08/29/2001	47	140	75
09/05/2001	48	138	75
09/11/2001	NR	NR	NR
09/19/2001	50	125	75
09/27/2001	50	120	76
10/01/2001	50	118	72
10/10/2001	48	120	79
10/15/2001	48	110	73
10/23/2001	50	110	75
10/29/2001	50	114	80
11/16/2001	48	120	80
11/20/2001	48	120	80

TABLE 2-1
Bioventing System Data

Date	Blower Discharge Pressure (inches of water)	Blower Discharge Temperature (^{o}F)	Blower Inlet Air Flow Rate (scfm)
11/26/2001	48	124	80
12/07/2001	48	122	80
12/12/2001	48	124	80
12/20/2001	28	96	105
12/28/2001	29	81	104
01/02/2002	28	83	104
01/07/2002	28	78	104
01/14/2002	28	90	104
01/21/2002	28	100	104
01/31/2002	38	112	95
02/07/2002	38	100	93
02/11/2002	38	106	95
02/19/2002	38	96	95
02/25/2002	30	90	101
03/04/2002	32	84	100
03/11/2002	32	98	102
03/21/2002	30	110	100
03/28/2002	30	98	100
04/02/2002	30	105	100
04/08/2002	30	105	100
04/15/2002	32	104	100
04/22/2002	30	106	100
04/30/2002	30	118	100
05/06/2002	30	116	100
05/13/2002	28	122	100
05/20/2002	28	104	102
05/28/2002	28	112	100

NR = No Reading
^{o}F = degrees Fahrenheit
scfm = standard cubic feet per minute

2.3.2 Biosparging System

During the June 1, 2001 to May 31, 2002 monitoring period, the injection header discharge pressure averaged 17.4 psig compared to the design injection pressure of 15 psig. The data for the biosparging system are tabulated in Table 2-2.

TABLE 2-2
Biospargng System Data

Date	Air Compressor Supply Pressure (psig)	Air Compressor Discharge Temperature (ºF)	Receiver Tank Supply Pressure (psig)	Header Discharge Pressure (psig)
06/20/2001	40	185	35	18
06/25/2001	40	185	35	18
07/02/2001	40	185	40	20
07/12/2001	40	176	35	18
07/17/2001	42	181	35	18
07/24/2001	44	176	35	18
07/30/2001	42	180	38	18
08/06/2001	45	167	40	18
08/14/2001	45	180	40	18
08/23/2001	45	180	40	18
08/29/2001	45	189	42	18
09/05/2001	46	185	40	18
09/11/2001	50	183	50	20
09/19/2001	50	190	50	19
09/27/2001	57	172	50	19
10/01/2001	56	176	50	18
10/10/2001	48	181	40	18
10/15/2001	48	180	40	19
10/23/2001	42	180	40	18
10/29/2001	45	180	40	18
11/16/2001	52	185	48	18
11/20/2001	53	183	45	18
11/26/2001	52	190	45	18
12/07/2001	35	195	30	18
12/12/2001	35	195	30	16
12/20/2001	35	195	27	18
12/28/2001	35	195	25	10
01/02/2002	36	197	25	16
01/07/2002	30	200	35	16
01/14/2002	35	210	28	17
01/21/2002	35	108	25	18
01/31/2002	76	175	70	20
02/07/2002	78	165	75	19
02/11/2002	40	165	33	18
02/19/2002	110	75	70	16

TABLE 2-2
Biospargng System Data

Date	Air Compressor Supply Pressure (psig)	Air Compressor Discharge Temperature (ºF)	Receiver Tank Supply Pressure (psig)	Header Discharge Pressure (psig)
02/25/2002	110	165	70	16
03/04/2002	110	165	90	16.5
03/11/2002	111	167	107	16.5
03/21/2002	110	96	100	16
03/28/2002	109	76	101	17
04/02/2002	100	170	100	16.5
04/08/2002	112	175	110	17
04/15/2002	103	80	100	16.5
04/22/2002	114	175	100	16.5
04/30/2002	110	85	105	16
05/06/2002	113	185	110	16.5
05/13/2002	110	195	110	16.5
05/20/2002	110	170	105	17
05/28/2002	110	190	105	16

psig = pounds per square inch gauge
ºF = degrees Fahrenheit

2.4 Water Level Measurements

Depth to water/light non-aqueous phase liquid (LNAPL) measurements were recorded at selected monitoring wells (CEF-43-1N, CEF-43-2N, CEF-43-3N, CEF-43-4N, CEF-43-5N, CEF-43-6N, CEF-43-7N, CEF-43-8N, CEF-43-9N, CEF-43-10, CEF-43-19, CEF-43-20, CEF-43-21, CEF-43-22, CEF-43-32, CEF-43-33, CEF-43-34, CEF-43-38, CEF-43-48 and CEF-43-50D) on a monthly basis during the monitoring period. The top of casing (TOC) elevation, depth to water measurements, and calculated water level elevations are provided in Table 2-3. The well locations are shown on Figure 1-1.

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

TABLE 2-3
Groundwater Monitoring Well – Water Level and LNAPL Data

Well In Identification	Well Total Depth (feet bgs)	Date	Top of Casing Elevation (feet)	Depth to Product (feet)	Depth to Water (feet)	Water Level Elevation
CEF-043-1N	14.05	06/29/2001	78.15	no LNAPL	8.00	70.15
		07/19/2001		no LNAPL	7.29	70.86
		08/09/2001		no LNAPL	5.63	72.52
		09/06/2001		no LNAPL	4.98	73.17
		10/31/2001		no LNAPL	7.03	71.12
		11/21/2001		no LNAPL	7.38	70.77
		12/13/2001		no LNAPL	7.70	70.45
		01/25/2002		no LNAPL	7.70	70.45

TABLE 2-3
Groundwater Monitoring Well – Water Level and LNAPL Data

Well In Identification	Well Total Depth (feet bgs)	Date	Top of Casing Elevation (feet)	Depth to Product (feet)	Depth to Water (feet)	Water Level Elevation
		02/22/2002		no LNAPL	7.71	70.44
		03/07/2002		no LNAPL	7.06	71.09
		04/11/2002		no LNAPL	7.65	70.50
		05/15/2002		no LNAPL	8.01	70.14
CEF-043-2N	13.71	06/29/2001	78.00	no LNAPL	8.08	69.92
		07/19/2001		no LNAPL	7.39	70.61
		08/09/2001		no LNAPL	5.63	72.37
		09/06/2001		no LNAPL	5.05	72.95
		10/31/2001		no LNAPL	7.06	70.94
		11/21/2001		no LNAPL	7.51	70.49
		12/13/2001		no LNAPL	7.81	70.19
		01/25/2002		no LNAPL	7.92	70.08
		02/22/2002		no LNAPL	7.73	70.27
		03/07/2002		no LNAPL	7.24	70.76
		04/11/2002		no LNAPL	7.72	70.28
		05/15/2002		no LNAPL	8.00	70.00
CEF-043-3N	14.20	06/29/2001	78.26	no LNAPL	8.66	69.60
		07/19/2001		no LNAPL	7.99	70.27
		08/09/2001		no LNAPL	6.71	71.55
		09/06/2001		no LNAPL	6.05	72.21
		10/31/2001		no LNAPL	8.06	70.20
		11/21/2001		no LNAPL	8.40	69.86
		12/13/2001		no LNAPL	8.60	69.66
		01/25/2002		no LNAPL	8.65	69.61
		02/22/2002		no LNAPL	8.45	69.81
		03/07/2002		no LNAPL	8.03	70.23
		04/11/2002		no LNAPL	8.37	69.89
		05/15/2002		no LNAPL	8.68	69.58
CEF-043-4N	14.18	06/29/2001	78.07	no LNAPL	8.73	69.34
		07/19/2001		no LNAPL	7.72	70.35
		08/09/2001		no LNAPL	5.89	72.18
		09/06/2001		no LNAPL	5.39	72.68
		10/31/2001		no LNAPL	7.04	71.03
		11/21/2001		no LNAPL	7.75	70.32
		12/13/2001		no LNAPL	8.01	70.06
		01/25/2002		no LNAPL	8.05	70.02
		02/22/2002		no LNAPL	7.88	70.19
		03/07/2002		no LNAPL	7.43	70.64
		04/11/2002		no LNAPL	7.86	70.21
		05/15/2002		no LNAPL	8.16	69.91
CEF-043-5N	14.18	06/29/2001	78.46	no LNAPL	8.90	69.56

TABLE 2-3
Groundwater Monitoring Well – Water Level and LNAPL Data

Well In Identification	Well Total Depth (feet bgs)	Date	Top of Casing Elevation (feet)	Depth to Product (feet)	Depth to Water (feet)	Water Level Elevation
		07/19/2001		no LNAPL	8.05	70.41
		08/09/2001		no LNAPL	6.52	71.94
		09/06/2001		no LNAPL	5.85	72.61
		10/31/2001		no LNAPL	7.84	70.62
		11/21/2001		no LNAPL	8.40	70.06
		12/13/2001		no LNAPL	8.70	69.76
		01/25/2002		no LNAPL	8.75	69.71
		02/22/2002		no LNAPL	8.41	70.05
		03/07/2002		no LNAPL	8.33	70.13
		04/11/2002		no LNAPL	8.53	69.93
		05/15/2002		no LNAPL	8.72	69.74
CEF-043-6N	14.26	06/29/2001	77.79	no LNAPL	8.18	69.61
		07/19/2001		no LNAPL	7.26	70.53
		08/09/2001		no LNAPL	5.85	71.94
		09/06/2001		no LNAPL	5.18	72.61
		10/31/2001		no LNAPL	7.11	70.68
		11/21/2001		no LNAPL	7.69	70.10
		12/13/2001		no LNAPL	8.06	69.73
		01/25/2002		no LNAPL	8.11	69.68
		02/22/2002		no LNAPL	7.81	69.98
		03/07/2002		no LNAPL	7.58	70.21
		04/11/2002		no LNAPL	7.86	69.93
		05/15/2002		no LNAPL	8.08	69.71
CEF-043-7N	14.45	06/29/2001	77.61	no LNAPL	7.92	69.69
		07/19/2001		no LNAPL	7.05	70.56
		08/09/2001		no LNAPL	4.50	73.11
		09/06/2001		no LNAPL	3.05	74.56
		10/31/2001		no LNAPL	5.82	71.79
		11/21/2001		no LNAPL	6.65	70.96
		12/13/2001		no LNAPL	7.21	70.40
		01/25/2002		no LNAPL	7.14	70.47
		02/22/2002		no LNAPL	6.97	70.64
		03/07/2002		no LNAPL	6.87	70.74
		04/11/2002		no LNAPL	7.36	70.25
		05/15/2002		no LNAPL	7.41	70.20
CEF-043-8N	14.25	06/29/2001	78.41	no LNAPL	8.65	69.76
		07/19/2001		no LNAPL	7.48	70.93
		08/09/2001		no LNAPL	5.50	72.91
		09/06/2001		no LNAPL	5.74	72.67
		10/31/2001		no LNAPL	6.68	71.73
		11/21/2001		no LNAPL	7.35	71.06

TABLE 2-3
Groundwater Monitoring Well – Water Level and LNAPL Data

Well In Identification	Well Total Depth (feet bgs)	Date	Top of Casing Elevation (feet)	Depth to Product (feet)	Depth to Water (feet)	Water Level Elevation
		12/13/2001		no LNAPL	7.95	70.46
		01/25/2002		no LNAPL	7.99	70.42
		02/22/2002		no LNAPL	7.73	70.68
		03/07/2002		no LNAPL	7.43	70.98
		04/11/2002		no LNAPL	8.00	70.41
		05/15/2002		no LNAPL	7.31	71.10
CEF-043-9N	13.25	06/29/2001	77.50	no LNAPL	7.25	70.25
		07/19/2001		no LNAPL	6.27	71.23
		08/09/2001		no LNAPL	4.12	73.38
		09/06/2001		no LNAPL	2.89	74.61
		10/31/2001		no LNAPL	5.20	72.30
		11/21/2001		no LNAPL	5.85	71.65
		12/13/2001		no LNAPL	6.51	70.99
		01/25/2002		no LNAPL	6.35	71.15
		02/22/2002		no LNAPL	6.45	71.05
		03/07/2002		no LNAPL	5.86	71.64
		04/11/2002		no LNAPL	6.67	70.83
		05/15/2002		no LNAPL	6.77	70.73
CEF-043-10	14.24	06/29/2001	78.55	no LNAPL	8.51	70.04
		07/19/2001		no LNAPL	7.71	70.84
		08/09/2001		no LNAPL	6.05	72.50
		09/06/2001		no LNAPL	5.52	73.03
		10/31/2001		no LNAPL	7.40	71.15
		11/21/2001		no LNAPL	7.84	70.71
		12/13/2001		no LNAPL	8.21	70.34
		01/25/2002		no LNAPL	8.27	70.28
		02/22/2002		no LNAPL	8.16	70.39
		03/07/2002		no LNAPL	7.59	70.96
		04/11/2002		no LNAPL	8.15	70.40
		05/15/2002		no LNAPL	8.06	70.49
CEF-043-19	14.73	06/29/2001	78.47	no LNAPL	7.90	70.57
		07/19/2001		no LNAPL	6.80	71.67
		08/09/2001		no LNAPL	4.91	73.56
		09/06/2001		no LNAPL	4.27	74.20
		10/31/2001		no LNAPL	5.75	72.72
		11/21/2001		no LNAPL	6.35	72.12
		12/13/2001		no LNAPL	7.13	71.34
		01/25/2002		no LNAPL	6.84	71.63
		02/22/2002		no LNAPL	7.05	71.42
		03/07/2002		no LNAPL	6.34	72.13
		04/11/2002		no LNAPL	7.31	71.16

TABLE 2-3
Groundwater Monitoring Well – Water Level and LNAPL Data

Well In Identification	Well Total Depth (feet bgs)	Date	Top of Casing Elevation (feet)	Depth to Product (feet)	Depth to Water (feet)	Water Level Elevation
		05/15/2002		no LNAPL	7.02	71.45
CEF-043-20	15.00	06/29/2001	78.59	no LNAPL	7.85	70.74
		07/19/2001		no LNAPL	7.07	71.52
		08/09/2001		no LNAPL	5.26	73.33
		09/06/2001		no LNAPL	4.56	74.03
		10/31/2001		no LNAPL	6.56	72.03
		11/21/2001		no LNAPL	7.00	71.59
		12/13/2001		no LNAPL	7.43	71.16
		01/25/2002		no LNAPL	7.31	71.28
		02/22/2002		no LNAPL	7.58	71.01
		03/07/2002		no LNAPL	6.74	71.85
		04/11/2002		no LNAPL	7.51	71.08
		05/15/2002		no LNAPL	7.91	70.68
CEF-043-21	14.83	06/29/2001	76.71	no LNAPL	6.18	70.53
		07/19/2001		no LNAPL	5.61	71.10
		08/09/2001		no LNAPL	4.32	72.39
		09/06/2001		no LNAPL	3.30	73.41
		10/31/2001		no LNAPL	5.55	71.16
		11/21/2001		no LNAPL	5.68	71.03
		12/13/2001		no LNAPL	5.90	70.81
		01/25/2002		no LNAPL	5.82	70.89
		02/22/2002		no LNAPL	6.11	70.60
		03/07/2002		no LNAPL	5.37	71.34
		04/11/2002		no LNAPL	5.85	70.86
		05/15/2002		no LNAPL	6.38	70.33
CEF-043-22	14.86	06/29/2001	77.24	no LNAPL	7.02	70.22
		07/19/2001		no LNAPL	6.58	70.66
		08/09/2001		no LNAPL	4.95	72.29
		09/06/2001		no LNAPL	4.47	72.77
		10/31/2001		no LNAPL	6.64	70.60
		11/21/2001		no LNAPL	6.90	70.34
		12/13/2001		no LNAPL	7.05	70.19
		01/25/2002		no LNAPL	7.02	70.22
		02/22/2002		no LNAPL	7.11	70.13
		03/07/2002		no LNAPL	6.54	70.70
		04/11/2002		no LNAPL	6.86	70.38
		05/15/2002		no LNAPL	8.57	68.67
CEF-043-32	12.95	06/29/2001	76.53	no LNAPL	6.14	70.39
		07/19/2001		no LNAPL	5.56	70.97
		08/09/2001		no LNAPL	4.21	72.32
		09/06/2001		no LNAPL	3.71	72.82

TABLE 2-3
Groundwater Monitoring Well – Water Level and LNAPL Data

Well In Identification	Well Total Depth (feet bgs)	Date	Top of Casing Elevation (feet)	Depth to Product (feet)	Depth to Water (feet)	Water Level Elevation
		10/31/2001		no LNAPL	5.50	71.03
		11/21/2001		no LNAPL	5.65	70.88
		12/13/2001		no LNAPL	8.89	67.64
		01/25/2002		no LNAPL	7.79	68.74
		02/22/2002		no LNAPL	6.02	70.51
		03/07/2002		no LNAPL	5.31	71.22
		04/11/2002		no LNAPL	5.74	70.79
		05/15/2002		no LNAPL	6.42	70.11
CEF-043-33	13.52	06/29/2001	76.97	no LNAPL	6.68	70.29
		07/19/2001		no LNAPL	6.20	70.77
		08/09/2001		no LNAPL	4.91	72.06
		09/06/2001		no LNAPL	4.57	72.40
		10/31/2001		no LNAPL	6.10	70.87
		11/21/2001		no LNAPL	6.30	70.67
		12/13/2001		no LNAPL	6.50	70.47
		01/25/2002		no LNAPL	6.39	70.58
		02/22/2002		no LNAPL	6.60	70.37
		03/07/2002		no LNAPL	5.95	71.02
		04/11/2002		no LNAPL	6.19	70.78
		05/15/2002		no LNAPL	6.81	70.16
CEF-043-34	14.42	06/29/2001	76.84	no LNAPL	6.39	70.45
		07/19/2001		no LNAPL	6.04	70.80
		08/09/2001		no LNAPL	4.75	72.09
		09/06/2001		no LNAPL	4.21	72.63
		10/31/2001		no LNAPL	6.13	70.71
		11/21/2001		no LNAPL	6.30	70.54
		12/13/2001		no LNAPL	6.46	70.38
		01/25/2002		no LNAPL	6.31	70.53
		02/22/2002		no LNAPL	6.57	70.27
		03/07/2002		no LNAPL	NM	NM
		04/11/2002		no LNAPL	5.77	71.07
		05/15/2002		no LNAPL	6.61	70.23
CEF-043-38	13.07	06/29/2001	77.62	no LNAPL	7.35	70.27
		07/19/2001		no LNAPL	6.64	70.98
		08/09/2001		no LNAPL	5.04	72.58
		09/06/2001		no LNAPL	4.35	73.27
		10/31/2001		no LNAPL	6.41	71.21
		11/21/2001		no LNAPL	6.71	70.91
		12/13/2001		no LNAPL	7.05	70.57
		01/25/2002		no LNAPL	7.00	70.62
		02/22/2002		no LNAPL	7.11	70.51

TABLE 2-3
Groundwater Monitoring Well – Water Level and LNAPL Data

Well In Identification	Well Total Depth (feet bgs)	Date	Top of Casing Elevation (feet)	Depth to Product (feet)	Depth to Water (feet)	Water Level Elevation
		03/07/2002		no LNAPL	6.41	71.21
		04/11/2002		no LNAPL	6.99	70.63
		05/15/2002		no LNAPL	7.36	70.26
CEF-043-48	13.63	06/29/2001	77.10	no LNAPL	8.37	68.73
		07/19/2001		no LNAPL	6.39	70.71
		08/09/2001		no LNAPL	4.19	72.91
		09/06/2001		no LNAPL	3.11	73.99
		10/31/2001		no LNAPL	5.70	71.40
		11/21/2001		no LNAPL	6.48	70.62
		12/13/2001		no LNAPL	7.16	69.94
		01/25/2002		no LNAPL	6.63	70.47
		02/22/2002		no LNAPL	6.90	70.20
		03/07/2002		no LNAPL	6.37	70.73
		04/11/2002		no LNAPL	7.26	69.84
		05/15/2002		no LNAPL	7.22	69.88
CEF-043-50D	62.91	06/29/2001	77.23	no LNAPL	8.45	68.78
		07/19/2001		no LNAPL	9.87	67.36
		08/09/2001		no LNAPL	8.65	68.58
		09/06/2001		no LNAPL	7.01	70.22
		10/31/2001		no LNAPL	8.40	68.83
		11/21/2001		no LNAPL	8.70	68.53
		12/13/2001		no LNAPL	8.60	68.63
		01/25/2002		no LNAPL	7.90	69.33
		02/22/2002		no LNAPL	8.39	68.84
		03/07/2002		no LNAPL	8.47	68.76
		04/11/2002		no LNAPL	8.40	68.83
		05/15/2002		no LNAPL	8.91	68.32

bgs = below ground surface
Elevation is referenced to National Geodetic Vertical Datum 1929 (NGVD 1929)
LNAPL = light non-aqueous phase liquid
Depth to LNAPL measured from top of casing
Depth to water measured from top of casing
NM = not measured

3.0 Summary of Sampling and Laboratory Analytical Results

3.1 Soil Monitoring

Soil screening and sampling is conducted on an annual basis. The annual soil screening and sampling event was performed on October 18, 2001. Fifteen soil borings were installed at the locations shown on Figure 3-1. The soil was screened using an organic vapor analyzer (OVA) equipped with a flame ionization detector (FID) at depths from 2 to 4 feet below land surface (bls). The water table was encountered at 3 to 4 feet bls. The OVA/FID readings are tabulated in Table 3-1. Soil boring numbers B-41, B-96, B-99, B-106, and B-167 exhibited net OVA/FID readings in excess of 50 parts per million (ppm).

One laboratory soil sample was collected from each of the 15 soil borings at the depth with the highest net OVA/FID reading. These soil samples were analyzed for benzene, toluene, ethylbenzene, and xylene (BTEX) and methyl tert butyl ether (MTBE) by U.S. Environmental Protection Agency (EPA) Method 8021B, naphthalene and polycyclic aromatic hydrocarbons (PAHs) by EPA Method 8310, and total recoverable petroleum hydrocarbon (TRPH) by the Florida Petroleum Residual Organic (FL PRO) method. The results indicated that 4 of the 15 soil boring locations (B-96, B-101, B-146, and B-167) have BTEX, naphthalene, and/or TRPH levels that exceed the Leachability and/or Direct Exposure Residential soil cleanup target levels (SCTLs) per Chapter 62-777 FAC. The analytical laboratory report from the soil sampling event is provided in Appendix B and the analytical results are summarized in Table 3-2.

3.2 Groundwater Monitoring

Monitoring wells CEF-43-2N, CEF-43-6N, CEF-43-7N, CEF-43-9N, CEF-43-33N, and CEF-43-38N were sampled for VOCs by USEPA Method 601/602, semivolatile organic compounds by USEPA Method 610, lead by USEPA Method 6010B, and TRPH by the FL PRO method.

The groundwater analytical results showed that three of the six sampled monitoring wells, CEF-43-2N, CEF-43-6N, and CEF-43-9N, exhibited groundwater contaminant concentrations that exceeded the GCTLs. Monitoring well CEF-43-2N exhibited a total xylenes concentration (63 micrograms per liter [µg/L]) that exceeded the total xylenes GCTL (20 µg/L) and a TRPH concentration (24,600 µg/L) that exceeded the TRPH GCTL (5,000 µg/L). Monitoring well CEF-43-6N exhibited a total xylenes concentration (67.7 µg/L) that exceeded the total xylenes GCTL (20 µg/L) and a lead concentration (20 µg/L) that exceeded the lead GCTL (15 µg/L). Monitoring well CEF-43-9N exhibited a total xylenes concentration (71.4 µg/L) that exceeded the total xylenes GCTL (20 µg/L), a naphthalene concentration (30 µg/L) that exceeded the naphthalene GCTL (20 µg/L), and a TRPH concentration (5,300 µg/L) that exceeded the TRPH GCTL (5,000 µg/L). All contaminant concentrations in monitoring wells CEF-43-7N, CEF-43-33N, and CEF-43-38N were below the GCTLs.

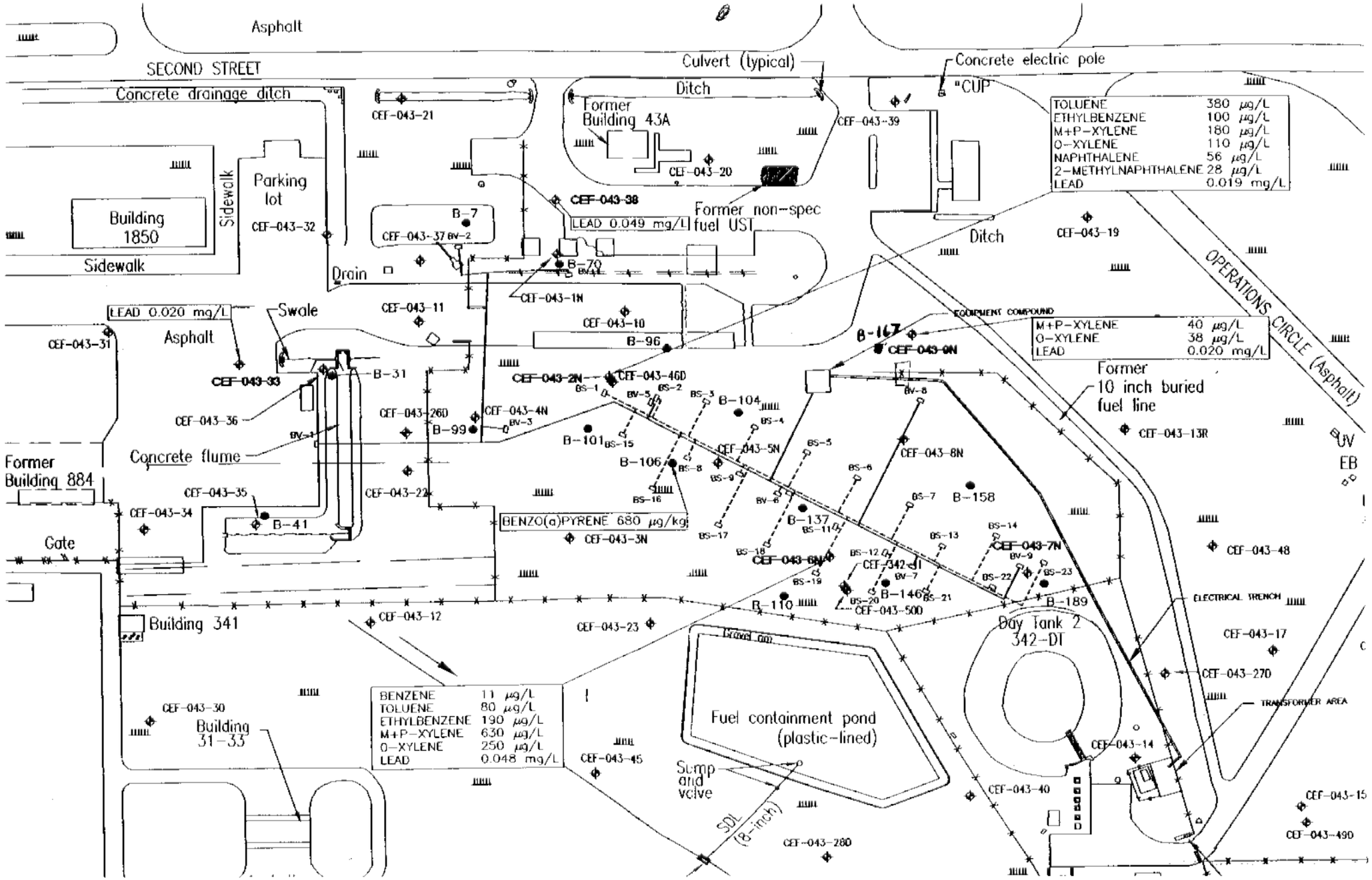


Figure 3-1
Soil Boring Map
South Fuel Farm
NAS Cecil Field, Jacksonville, Florida

CH2MHILL

A082002001ATL \ NAS Cecil 110.ai

The analytical results from the groundwater sampling are summarized in Table 3-3. Copies of the analytical laboratory report from the groundwater sampling event are provided in Appendix C.

Field analytical tests were performed on the air and groundwater in selected monitoring wells on a monthly basis during the monitoring period.

The air in each monitoring well was tested for percent methane, percent carbon dioxide, percent oxygen, pressure, and total hydrocarbons (OVA). Methane, carbon dioxide, and oxygen levels are measured as an indication of biological activity. Pressure is measured as an indication of the influence of the bioventing and biosparging systems. OVA readings are measured as an indication of the levels of hydrocarbons still present. No elevated levels of methane were noted. Elevated carbon dioxide levels and less than ambient oxygen levels were noted in most of the monitoring wells indicating biological activity is occurring. Significant pressure readings above ambient atmospheric pressure were not noted in any monitoring wells. Elevated hydrocarbon levels (OVA readings greater than 50 ppm) were noted in monitoring wells CEF-043-2N and CEF-043-4N.

The groundwater in each monitoring well was tested for pH, conductivity, turbidity, dissolved oxygen, temperature, and redox potential. The basic water quality parameters pH, conductivity, temperature, and turbidity indicate conditions acceptable for biological activity to occur. The dissolved oxygen levels were greater than 1 milligram per liter (mg/L), which indicates that sufficient oxygen is present for aerobic biological activity.

The results of the field analytical tests are summarized in Table 3-4.

TABLE 3-1
OVA Soil Screening

Soil Boring No.	Date	Depth (feet bls)	OVA/FID Unfiltered (ppm)	OVA/FID Filtered (ppm)	OVA/FID Net (ppm)
B-7	10/17/01	2	2.6	0.2	2.4
	10/17/01	3	0.85	0	0.85
B-31	10/17/01	2	4.6	0.1	4.5
	10/17/01	3	55	12	43
B-41	10/17/01	2	3.6	0	3.6
	10/17/01	4	76	0	76
B-70	10/17/01	2	0.07	0	0.07
	10/17/01	4	9	0	9
B-96	10/17/01	2	50	3.5	46.5
	10/17/01	4	9,900	3	9,897
B-99	10/17/01	2	0	0	0
	10/17/01	4	360	18	342
B-101	10/17/01	2	1.2	0	1.2
	10/17/01	4	40	1	39
B-104	10/17/01	2	1.9	0.3	1.6
	10/17/01	4	134	3	131
B-106	10/17/01	2	1.25	0	1.25
	10/17/01	4	180	4	176
B-110	10/17/01	2	1.4	0	1.4
	10/17/01	4	23	0	23
B-137	10/17/01	2	0.25	0	0.25
	10/17/01	4	0.2	0.1	0.1
B-146	10/17/01	2	0.55	0	0.55
	10/17/01	4	40	0.9	39.1
B-158	10/17/01	2	1.8	0	1.8
	10/17/01	4	2.65	0	2.65
B-167	10/17/01	2	0	0	0
	10/17/01	4	2,600	280	2,320
B-189	10/17/01	2	0.6	0.2	0.4
	10/17/01	4	0.4	0	0.4

OVA = Organic Vapor Analyzer
bls = below land surface
ppm = parts per million
Filtered readings taken using an activated charcoal filter
Net Reading = unfiltered reading - filtered reading
OVA readings taken using an OVA meter equiped with a flame ionization detector (FID)
Shaded values indicate the Net OVA readings that exceed 50 ppm.

TABLE 3-2
Soil Analytical Results

Soil Boring Number	Sample Date	Sample Depth (ft bgs)	Benzene	Ethyl Benzene	Toluene	Xylene	BTEX	Methyl tert-butyl ether	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo (a) anthracene	Chrysene	Benzo (b) fluoranthene	Benzo (k) fluoranthene	Benzo (a) pyrene	Indeno (1, 2, 3-cd) pyrene	Dibenzo (a,h) anthracene	Benzo (g,h,i) perylene	TRPH (mg/kg)
B-7	03/22/99	N/A	<0.11	<0.11	<0.11	<0.33	<0.66	<0.64	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	84
	09/13/00	N/A	<0.001	<0.001	<0.001	<0.003	<0.006	<0.002	<0.018	<0.037	<0.037	<0.037	<0.019	<0.003	<0.037	<0.0018	<0.0037	<0.0018	<0.0018	<0.0018	<0.0037	<0.0018	<0.002	<0.0018	<0.0036	<0.003	8
	10/18/01	2	<0.001	<0.001	<0.001	<0.0031	<0.0061	<0.001	<0.597	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<18
B-31	03/22/99	N/A	<0.012	<0.012	<0.012	<0.036	<0.072	<0.071	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	170
	09/13/00	N/A	<0.0011	<0.0011	<0.0011	<0.0031	<0.0064	<0.002	<0.02	<0.04	<0.04	<0.04	<0.02	<0.004	<0.04	<0.002	<0.004	<0.002	<0.002	<0.002	<0.004	<0.002	0.002	0.003	0.01	0.01	180
	10/18/01	4	<0.0011	<0.0011	<0.0011	<0.0033	<0.0066	<0.0011	<0.604	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	0.010 J	<0.060	<0.060	<0.060	<18
B-41	03/22/99	N/A	<0.013	<0.013	<0.013	<0.038	<0.077	<0.076	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	30
	09/13/00	N/A	<0.55	<0.55	<0.55	24.9	24.9	<1.1	3.3	22	14	<2	<1	0.21	<0.2	<0.098	0.88	<0.098	<0.098	<0.098	<0.2	<0.098	<0.099	<0.098	<0.19	<0.2	460
	10/18/01	4	<0.0011	<0.0011	<0.0011	<0.0033	<0.0066	<0.0011	<0.579	<0.058	<0.058	<0.058	<0.058	<0.058	<0.058	<0.058	<0.058	<0.058	<0.058	<0.058	<0.058	<0.058	<0.058	<0.058	<0.058	<0.058	<17
B-70	03/22/99	N/A	<0.13	<0.13	<0.13	<0.4	<0.79	<0.8	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	830
	09/13/00	N/A	0.0014	<0.001	0.002	0.019	0.0224	<0.002	<0.021	<0.041	<0.041	0.109	0.094	<0.004	<0.041	<0.0021	0.091	0.148	0.016	0.043	0.014	0.012	0.005	0.003	<0.004	<0.004	100
	10/18/01	4	<0.0012	<0.0012	<0.0012	<0.0036	<0.0072	<0.0012	<0.565	<0.056	0.035 J	>0.056	<0.056	<0.056	0.0049J	<0.056	<0.056	0.0057J	0.0053J	0.008J	0.015J	<0.056	0.007J	0.010J	<0.056	0.016J	64
B-96	03/22/99	N/A	<0.1	0.25	<0.1	5.8	6.0500	<.63	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	7600
	09/13/00	N/A	<0.22	<0.22	<0.22	<0.65	<1.31	<0.43	0.074	0.48	0.58	0.058	0.032	0.11	0.26	0.039	<0.004	<0.002	0.015	0.021	0.02	0.011	0.012	0.006	0.009	0.005	1800
	10/18/01	4	0.024	0.017	0.0017	0.0141	0.0568	<0.0014	0.562	<0.056	<0.056	<0.056	<0.056	<0.056	<0.056	<0.056	<0.056	0.128	0.016	0.018	0.033	0.015	<0.056	0.014	<0.056	0.016	969
B-99	03/22/99	N/A	<0.11	<0.11	<0.11	<0.33	<0.66	<0.67	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	570
	09/13/00	N/A	0.001	<0.001	0.0018	0.0017	0.0045	<0.002	<0.02	<0.04	0.073	<0.04	0.14	<0.004	<0.04	0.004	0.052	0.028	0.008	0.02	0.025	0.006	0.016	0.013	0.019	0.024	<8.1
	10/18/01	4	<0.0012	<0.0012	<0.0012	<0.0035	<0.0071	<0.0012	<0.593	<0.059	<0.059	<0.059	<0.059	<0.059	0.024J	<0.059	0.046J	0.015J	0.027J	0.040J	0.040J	0.017J	0.032J	0.024J	<0.059	0.029J	36
B-101	03/22/99	N/A	<0.12	<0.12	<0.12	<0.36	<0.72	<0.72	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	320
	09/13/00	N/A	<0.0011	<0.0011	<0.0011	<0.0031	<0.0064	<0.002	<0.021	<0.042	<0.042	<0.042	<0.021	<0.004	<0.042	<0.0021	<0.0042	<0.0021	<0.0021	0.005	0.007	0.003	0.006	0.009	0.008	0.018	<8.4
	10/18/01	4	0.00088	<0.001	0.0012	<0.003	0.0021	<0.001	<0.572	0.206	1.09	1.25	0.17	0.321	0.912	<0.057	1.84	0.201	<0.057	1.14	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057	7510
B-104	03/22/99	N/A	<0.11	<0.11	<0.11	<0.33	<0.66	<0.67	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	28
	09/13/00	N/A	<0.001	<0.001	0.0018	0.0084	0.0102	<0.002	<0.021	<0.041	<0.041	<0.041	<0.021	<0.004	<0.041	<0.0021	<0.0041	<0.0021	<0.0021	<0.0021	<0.0041	<0.0021	<0.002	<0.0021	<0.0041	<0.004	<8.3
	10/18/01	4	<0.0012	<0.0012	<0.0012	<0.0035	<0.0071	<0.0012	<0.569	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057	0.0049J	0.014J	<0.057	<0.057	0.011J	<0.057	<0.057	<0.057	<0.057	0.0041J	80
Direct Exposure Residential [1]			1.1	1100	380	5900	n/a	3200	40	68	80	1100	1900	2200	2000	18000	2900	2200	1.4	140	1.4	15	0.1	1.5	0.1	2300	340
Leachability from GW Criteria [1]			0.0007	0.6	0.5	0.2	n/a	0.2	1.7	2.2	6.1	27	2.1	160	250	2500	1200	880	3.2	77	10	25	8	28	30	32000	340
B-106	03/22/99	N/A	<0.12	<0.12	<0.12	<0.37	<0.73	<0.75	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	3200

TABLE 3-2
Soil Analytical Results

Soil Boring Number	Sample Date	Sample Depth (ft bgs)	Benzene	Ethyl Benzene	Toluene	Xylene	BTEX	Methyl tert-butyl ether	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo (a) anthracene	Chrysene	Benzo (b) fluoranthene	Benzo (k) fluoranthene	Benzo (a) pyrene	Indeno (1, 2, 3-cd) pyrene	Dibenzo (a,h) anthracene	Benzo (g,h,i) perylene	TRPH (mg/kg)
	09/13/00	N/A	<0.001	0.001	0.002	0.0145	0.0175	<0.002	<0.19	2.4	<0.38	<0.38	0.47	<0.038	<0.38	<0.019	0.93	2.8	0.62	0.89	0.97	0.62	0.68	0.31	0.34	0.5	1000
	10/18/01	4	<0.0011	<0.0011	<0.0011	<0.0033	<0.0066	<0.0011	<0.550	<0.055	<0.055	<0.055	<0.055	<0.055	0.023J	<0.055	<0.055	0.019J	0.023J	0.034J	0.037J	<0.055	0.040J	0.038J	<0.055	0.040J	37
B-110	03/22/99	N/A	<0.13	<0.13	<0.13	<0.39	<0.78	<0.78	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1000
	09/13/00	N/A	<0.097	<0.097	<0.097	<0.286	<0.577	<0.2	<0.97	<1.9	<1.9	4.3	3.7	0.23	<1.9	<0.097	<0.19	<0.097	<0.097	1.6	<0.19	<0.097	<0.098	<0.097	<0.19	<0.19	530
	10/18/01	4	<0.001	<0.001	<0.001	<0.003	<0.006	<0.001	<0.575	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057	<17
B-137	03/22/99	N/A	<0.1	<0.1	<0.1	0.52	0.5200	<0.63	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1200
	09/13/00	N/A	<0.0013	<0.0013	<0.0013	0.008	0.0080	<0.002	<0.02	<0.04	<0.04	<0.04	<0.02	<0.004	<0.04	<0.002	<0.004	<0.002	<0.002	<0.002	<0.002	<0.004	<0.002	<0.002	<0.002	<0.0039	<0.004	8
	10/18/01	2	<0.0012	<0.0012	<0.0012	<0.0037	<0.0073	<0.0012	<0.563	<0.056	<0.056	<0.056	<0.056	<0.056	<0.056	<0.056	<0.056	<0.056	<0.056	<0.056	<0.056	<0.056	<0.056	<0.056	<0.056	<0.056	<0.056	<17
B-146	03/22/99	N/A	<0.1	<0.1	<0.1	<0.31	<0.61	<0.63	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1000
	09/13/00	N/A	<0.0013	<0.0013	0.002	0.006	0.0080	<0.002	0.028	<0.041	<0.041	<0.041	<0.021	0.005	<0.041	<0.002	<0.0041	<0.002	<0.002	<0.002	<0.0041	<0.002	0.008	<0.002	<0.004	<0.004	13
	10/18/01	4	<0.0012	<0.0012	<0.0012	<0.0037	<0.0073	<0.0012	<0.541	<0.054	<0.054	<0.054	<0.054	0.012	<0.054	<0.054	0.185	0.029	<0.054	0.184	0.01	0.017	0.006	0.009	<0.054	<0.054	1640
B-158	03/22/99	N/A	<0.12	<0.12	<0.12	<0.36	<0.72	<0.7	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	9.5
	09/13/00	N/A	0.0016	0.003	0.002	0.0342	0.0408	<0.002	0.13	<0.041	<0.041	<0.041	<0.021	0.01	<0.041	<0.002	<0.0041	<0.002	<0.002	<0.002	<0.0041	0.003	0.004	<0.002	0.005	0.01	<8.2
	10/18/01	4	<0.0012	<0.0012	<0.0012	<0.0037	<0.0073	<0.0012	<0.596	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<18
B-167	03/22/99	N/A	<0.12	0.45	0.29	2.8	3.54	<0.72	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	4200
	09/13/00	N/A	<0.0011	<0.0011	<0.0011	<0.0031	<0.0064	<0.002	<0.02	<0.04	<0.04	<0.040	<0.02	<0.004	<0.04	<0.002	<0.004	<0.002	<0.002	<0.002	<0.004	<0.002	<0.002	<0.002	<0.004	<0.004	<8.1
	10/18/01	4	0.029	3.84	0.019	5.334	9.2220	0.0034	10.3	22.3	26.3	<0.573	0.188	1.71	2.37	<0.573	2.07	<0.573	<0.573	0.351	<0.573	<0.573	<0.573	<0.573	<0.573	<0.573	11400
B-189	03/22/99	N/A	<0.11	<0.11	<0.11	<0.33	<0.66	<0.67	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<7.4
	09/13/00	N/A	0.0018	<0.0011	0.0038	0.0061	0.0117	<0.002	<0.02	<0.041	<0.041	<0.041	<0.021	0.006	<0.041	<0.002	<0.0041	0.004	<0.002	<0.002	<0.0041	0.002	0.004	0.002	<0.004	0.005	<8.2
	10/18/01	4	<0.0012	0.00062J	<0.0012	0.0042	0.0048	<0.0012	<0.570	<0.057	0.013J	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057	18
Direct Exposure Residential [1]			1.1	1100	380	5900	n/a	3200	40	68	80	1100	1900	2200	2000	18000	2900	2200	1.4	140	1.4	15	0.1	1.5	0.1	2300	340
Leachability from GW Criteria [1]			0.0007	0.6	0.5	0.2	n/a	0.2	1.7	2.2	6.1	27	2.1	160	250	2500	1200	880	3.2	77	10	25	8	28	30	32000	340

All values reported in milligram per kilogram (mg/kg)
1 = Ch 62-777 F.A.C Soil cleanup Target Level (SCTLs) reported in mg/kg
bgs = below ground surface
BTEX = sum of benzene, toluene, ethylbenzene, and xylene
N/A = not available
N/S = not sampled for compound
J = concentration is less than the reporting limit but greater than the method detection limit
Shaded values indicate the compounds that exceed the SCTLs
Sampling events dated prior to 10/18/01 were performed by previous contractors.

TABLE 3-3
Groundwater Analytical Results

Well Identificaltion	Sample Date	Benzene	Ethyl Benzene	Toluene	Total Xylenes	BTEX	Methyl tert-butyl ether	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo (a) anthracene	Chrysene	Benzo (b) fluoranthene	Benzo (k) fluoranthene	Benzo (a) pyrene	Indeno (1, 2, 3-cd) pyrene	Dibenzo (a,h) anthracene	Benzo (g,h,i) perylene	Lead	TRPH
CEF-043-2N	03/09/1998	<1	<1	<1	<2	<5	<2	<10	<10	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5	3,500
	05/19/1998	6	300	**4,900**	**1,320**	6,526	7	**230**	45	51	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	29	900
	08/25/1998	<1	24	70	72	166	<2	<10	11	11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	15	9,000
	12/14/1998	2.2	86	**830**	**240**	1,158	<2	<10	35	22	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	22	4,200
	04/10/2000	<5	100	380	**290**	770	<10	56	14	28	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	19	30,000
	05/09/2002	0.32	20.5	26.3	63	110.1	<1	3.8	3.7	5.7	3.6	<0.22	0.55	0.44 B	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	4.0 B	24,600
CEF-043-6N	03/09/1998	**730**	**930**	**1,500**	**5,500**	8,660	<100	<100	<100	<100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	51	15,000
	05/19/1998	**230**	**1,300**	**1,700**	**10,000**	13,230	15	82	24	38	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	120	19,000
	08/25/1998	60	**400**	360	**1,820**	2,640	8	<10	11	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9	3,900
	12/14/1998	24	280	85	**2,580**	2,969	2.4	<10	30	17	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	78	18,000
	04/10/2000	11	190	80	**880**	1,161	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	48	14,000
	05/09/2002	<1	15.6	0.66	67.7	83.96	<1	1.1	0.88	1.9	0.24	<0.21	0.28	0.35 B	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	20	3,600
CEF-043-7N	03/09/1998	39	**320**	62	**1,560**	1,981	<10	<10	<10	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	76	14,000
	05/19/1998	<50	**2,300**	300	**10,200**	12,800	<100	54	<10	17	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	120	12,000
	08/25/1998	<1	90	10	**1,050**	1,150	<2	<10	<10	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	61	1,800
	12/14/1998	<1	**320**	24	**5,400**	5,744	<2	<10	<10	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7	19,000
	04/10/2000	<1	3	2.2	12.6	18	<2	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	13	600
	05/09/2002	<1	<1	<1	<3	<6	<1	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	4.2 B	2,600
CEF-043-9N	03/09/1998	<2	1.2	<1	11.3	12.5	<2	<10	<10	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	15	1,300
	05/19/1998	<2	18	1.3	68	87.3	<2	62	26	76	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	17	1,300
	08/25/1998	<2	1	<1	8	9	<2	<10	<10	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	<200
	12/14/1998	<2	18	<1	24	42	<2	24	<10	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	300
	04/10/2000	<1	23	4.2	78	105.2	<2	18	<10	13	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	20	1,500
	05/09/2002	<1	18	0.4	71.4	89.8	<1	30	7.7	9.7	1.2	<0.21	0.33	0.36 B	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	10.5	5,300
Groundwater Criteria [1]		1	30	40	20	n/a	50	20	20	20	210	20	280	210	2100	280	210	0.2	4.8	0.2	0.5	0.2	0.2	0.2	0.2	210	15	5000
Natural Attenuation Default Source [1]		100	300	400	200	n/a	500	200	200	200	2100	200	2800	2100	21000	2800	2100	20	480	20	50	20	20	20	20	2100	150	50000

TABLE 3-3
Groundwater Analytical Results

Well Identificaltion	Sample Date	Benzene	Ethyl Benzene	Toluene	Total Xylenes	BTEX	Methyl tert-butyl ether	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo (a) anthracene	Chrysene	Benzo (b) fluoranthene	Benzo (k) fluoranthene	Benzo (a) pyrene	Indeno (1, 2, 3-cd) pyrene	Dibenzo (a,h) anthracene	Benzo (g,h,i) perylene	Lead	TRPH
CEF-043-33N	03/09/1998	<1	<1	<1	<2	<5	<2	<10	<10	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5	<200
	05/19/1998	<1	<1	<1	<2	<5	<2	<10	<10	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5	<200
	08/25/1998	<1	<1	<1	<2	<5	<2	<10	<10	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10	<200
	12/14/1998	<1	<1	<1	<2	<5	<2	<10	<10	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	<200
	04/10/2000	<1	<1	<1	<2	<5	<2	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	20	<200
	05/09/2002	<1	<1	<1	<3	<6	<1	0.21 J	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<5	<370
CEF-043-38N	03/09/1998	<1	<1	<1	<2	<5	<2	<10	<10	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	140	<200
	05/19/1998	<1	<1	<1	<2	<5	<2	<10	<10	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	78	<200
	08/25/1998	<1	<1	<1	1	1	<2	<10	<10	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	46	<200
	12/14/1998	<1	<1	<1	8.8	8.8	<2	<10	<10	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	54	<200
	04/10/2000	<1	<1	<1	<2	<5	<2	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	49	<200
	05/09/2002	<1	<1	<1	<3	<6	<1	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	2.5 B	<380
Groundwater Criteria [1]		1	30	40	20	n/a	50	20	20	20	210	20	280	210	2100	280	210	0.2	4.8	0.2	0.5	0.2	0.2	0.2	210	15	5000
Natural Attenuation Default Source [1]		100	300	400	200	n/a	500	200	200	200	2100	200	2800	2100	21000	2800	2100	20	480	20	50	20	20	20	2100	150	50000

All values reported in ug/L
1 = Ch 62-777 F.A.C Groundwater Cleanup Target Levels (GCTLs) reported in ug/L
BTEX = sum of benzene, toluene, ethylbenzene, and xylene
N/A = not analyzed for this compound
Shaded values indicate the compounds that exceed the GCTLs
Bolded values indicate the compounds that exceed the natural attenuation default source criteria
B = compound is present in the method blank
J = concentration is less than the reporting limit but greater than the method detection limit
Sampling events dated prior to 5/9/02 were performed by previous contractors.
Sampling event dated 3/9/98 is the baseline sampling event

TABLE 3-4
Field Analytical Results

		Air					Groundwater					
Well Identification	Sample Date	Methane (%)	Carbon Dioxide (%)	Oxygen (%)	Pressure (in Hg)	OVA (ppm)	pH	Conductivity (mS/cm)	Turbidity	Dissolved Oxygen (mg/L)	Tempera-ture (°C)	eH (mV)
CEF-043-1N	06/29/2001	0	0	19.8	30	13	6.4	205	305	0.54	26.8	NR
	07/19/2001	0	0.2	20.4	29.8	23.5	5.23	27.9	18	2	25.8	33
	08/09/2001	0	2.9	12.6	29.9	10.7	5.2	45.1	32.5	1.86	27	189
	09/06/2001	0	5.1	13.5	29.8	4.8	6.62	0.401	9.4	3.73	27.2	141
	10/31/2001	0	12	10.4	29.7	3.5	5.54	0.483	0.3	1.05	26.5	162
	11/21/2001	0.1	5.4	17.2	29.6	5.9	6.27	0.455	0.3	0.46	24.8	193
	12/13/2001	0	4.7	17.6	29.7	5.61	6.31	0.287	5.3	6.03	24.1	214
	01/25/2002	0	2.2	19.7	29.8	3.94	6.44	0.233	0	3.11	21.6	119
	02/22/2002	0	2.4	18.1	29.9	3.5	6.12	0.278	8.8	1.3	23.6	132
	03/07/2002	0	1.6	18.8	30.1	1.5	6.35	0.262	10.9	3.62	21.3	206
	04/11/2002	0	2.7	17.9	29.9	1.64	6.02	0.256	19.8	2.32	23.1	205
	05/15/2002	0.4	2.7	15.9	30.2	3.2	6	0.282	84.5	3	23.5	53
CEF-043-2N	06/29/2001	0	7	13.8	29.9	257	5.8	163	118	0.72	27.3	NR
	07/19/2001	0	0.5	19.8	29.9	80.5	4.97	18.6	32	2.23	26.6	68
	08/09/2001	0.2	4.5	13.2	29.9	110	5	28.3	14.5	2.51	27.7	16
	09/06/2001	0.1	7.6	12.6	29.9	78	6.16	0.365	1.3	3.87	27.8	135
	10/31/2001	0	12	13.1	29.8	0	6.94	0.344	22	1.11	27	101
	11/21/2001	0.1	10.1	11.4	29.6	0.45	5.79	0.256	0	3.65	25.3	191
	12/13/2001	0	13.4	11.1	29.7	1484	6.07	0.261	2.4	6.02	24.9	188
	01/25/2002	0	4.3	17.3	29.8	402	6.74	0.136	12	3.92	22.6	66
	02/22/2002	0	5.3	14	29.9	12.6	6	0.1	91	4.03	23.6	92
	03/07/2002	0	4.5	16.3	30.1	215	7.22	0.154	129	527	21.9	96
	04/11/2002	0	8.7	13.5	29.9	220	6.32	0.159	11.2	5.29	23.8	92
	05/15/2002	0.4	7.6	11.3	30.2	10000	6	0.161	51.7	3.71	24.5	52
CEF-043-3N	06/29/2001	0	4.6	14	29.9	0	6.7	0.068	82	0.68	26.1	NR
	07/19/2001	0	0.7	19.5	29.8	15.4	4.72	6.6	999	3.27	24.7	233
	08/09/2001	0	4.5	14.2	29.9	2.51	4.8	11	335	5.81	26	277
	09/06/2001	0	5.6	14.7	29.9	3	5.94	0.134	20.4	6.31	26.5	175
	10/31/2001	0	2.3	19	29.9	0	4.44	0.048	162	1.33	26.2	267
	11/21/2001	0	2	20.9	29.6	0	5.24	0.048	8	6.78	24.4	313
	12/13/2001	0	3.4	18.4	29.7	2.84	5.91	0.038	175	5.88	23.9	245
	01/25/2002	0	1	21	29.8	0.25	4.7	0.04	3.4	4.23	21.8	238
	02/22/2002	0	2.5	18.3	29.9	0.9	4.77	0.04	33.6	5.06	22.6	242
	03/07/2002	0	2.1	18.1	30	0	4.73	0.035	28	3.77	21.1	295
	04/11/2002	0	2.3	18.7	30	0	4.77	0.037	12.8	4.72	23.1	229
	05/15/2002	0.3	0.3	19.5	30.2	2.36	6.5	0.036	528	2.95	23.7	288
CEF-043-4N	06/29/2001	0	4.7	13.8	29.9	0	6.5	0.041	204	0.61	25.6	NR
	07/19/2001	0	1.5	19.2	29.9	3800	5.38	48.8	35	1.64	25.9	37
	08/09/2001	2	17	20.2	29.9	4220	5	74.2	45.9	2.91	26	2

TABLE 3-4
Field Analytical Results

		Air					Groundwater					
Well Identification	Sample Date	Methane (%)	Carbon Dioxide (%)	Oxygen (%)	Pressure (in Hg)	OVA (ppm)	pH	Conductivity (mS/cm)	Turbidity	Dissolved Oxygen (mg/L)	Tempera-ture (°C)	eH (mV)
	09/06/2001	3	18.3	0.3	29.9	8300	6.33	0.851	0.6	1.84	26.4	74
	10/31/2001	0	17.4	8.6	29.8	5	6.21	0.576	19.2	1.28	26.1	43
	11/21/2001	3.9	14.7	3.5	29.6	9800	5.76	0.586	0.5	4.27	24.2	28
	12/13/2001	3.2	18.7	4.6	29.7	3800	5.96	0.473	21.2	3.65	23.7	49
	01/25/2002	0	0	21.8	29.8	1000	6.98	0.407	0	3.18	21.4	56
	02/22/2002	0	13	1.4	29.9	48	5.82	0.517	0	5.27	22.4	71
	03/07/2002	0	2.4	17.7	30	1404	7.53	0.48	43.9	2.85	21	74
	04/11/2002	0.2	10.3	11.6	29.9	1500	5.59	0.525	0	2.85	23	86
	05/15/2002	3.1	17.5	2	30.2	10000	6.5	0.471	326	3.93	23.8	86
CEF-043-5N	06/29/2001	0	0	20.2	29.9	8	6.8	0.07	199	6.39	26.4	NR
	07/19/2001	0	0	20.4	29.9	12.6	4.21	8.5	90	9.83	25.2	325
	08/09/2001	0	0	20.5	29.9	7.4	5.5	8.6	427	9.34	26	223
	09/06/2001	0	0.1	20.5	29.9	2.5	6.75	0.063	105	8.47	27	127
	10/31/2001	0	0.2	20	29.9	1	4.77	0.081	214	9.01	26.5	246
	11/21/2001	0.1	0	23.4	29.6	1.3	5.61	0.084	14.5	10	24.8	302
	12/13/2001	0	0.1	21.2	29.7	3.64	6.45	0.062	213	8.75	24.2	206
	01/25/2002	0	0.2	21.7	29.8	0.54	5.64	0.055	161	4.53	22.3	189
	02/22/2002	0	0	21.1	29.9	1.9	5.13	0.06	181	8.61	23.1	206
	03/07/2002	0	0	20.5	30.1	0.04	4.94	0.055	256	7.82	21.5	283
	04/11/2002	0	0	20.9	30	1	5.18	0.062	230	8.9	23	218
	05/15/2002	0.3	0.1	20.2	30.2	6.57	5.5	0.076	235	9.3	23.5	293
CEF-043-6N	06/29/2001	0	1.6	16.9	29.9	108	6.5	119	76	8.18	26.9	NR
	07/19/2001	0	0.6	19	29.9	74.3	4.9	13	150	3.34	26.4	202
	08/09/2001	0	1	18.2	29.9	32	5.6	12.6	147	7.65	27.72	174
	09/06/2001	0	1.3	18.8	29.9	12	5.71	0.122	13.7	2.69	27.9	50
	10/31/2001	0	2	16.8	29.9	11	5.05	0.162	17.8	4.32	26.8	210
	11/21/2001	0	0.9	20.8	29.6	9.6	5.78	0.171	3.4	7.86	25.2	261
	12/13/2001	0.1	1.3	18.8	29.7	5.88	5.76	0.128	46.7	5.98	24.6	237
	01/25/2002	0	1.3	19.5	29.8	2.82	5.45	0.13	0	2.66	22.4	191
	02/22/2002	0	0.6	20.4	29.8	3	5.2	0.143	72	6.08	23.3	210
	03/07/2002	0	0.2	20	30.1	0.58	5.56	0.122	25.8	4.5	22	248
	04/11/2002	0	0.8	19.9	30	2.65	5.48	0.149	0.4	4.22	23.7	200
	05/15/2002	0.3	0.9	19.3	30.2	10.45	5.5	0.145	157	6.05	24.2	57
CEF-043-7N	06/29/2001	0	1.1	17.9	29.9	0	6.8	210	46	0.47	25.8	NR
	07/19/2001	0	0	20.1	29.9	5.2	5.26	21.8	999	1.88	24.08	26
	08/09/2001	0	0.2	20.2	29.9	3.6	5.7	18.2	177	8.09	26.6	246
	09/06/2001	0	1.8	19.6	30	18.5	6.68	0.327	36.3	5	26.9	171
	10/31/2001	0.3	1.5	19	30	7	4.85	0.133	118	0.8	25.9	173
	11/21/2001	0	0.7	22.6	29.6	1.8	6.28	0.099	32.5	6.89	23..9	207

TABLE 3-4
Field Analytical Results

		Air					Groundwater					
Well Identification	Sample Date	Methane (%)	Carbon Dioxide (%)	Oxygen (%)	Pressure (in Hg)	OVA (ppm)	pH	Conductivity (mS/cm)	Turbidity	Dissolved Oxygen (mg/L)	Tempera-ture (°C)	eH (mV)
	12/13/2001	0.1	0.8	20.5	29.7	5.81	6.16	0.085	9.6	4.14	23.6	252
	01/25/2002	0	0.5	20.6	29.8	0	5.5	0.117	37	4.06	21.1	211
	02/22/2002	0	0.6	20.7	29.8	15	5.4	0.129	35.8	6.45	22.8	229
	03/07/2002	0	0.2	20.4	30	0	5.83	0.112	35	6.6	20.8	232
	04/11/2002	0	0.2	20.6	30	2.12	5.65	0.132	35.1	2.99	22.8	171
	05/15/2002	0.1	0.2	19.8	30.2	8.31	5.1	0.14	109	3.82	24	300
CEF-043-8N	06/29/2001	0	2.7	17.2	29.9	0	7.5	95	52	3.1	24.8	NR
	07/19/2001	0	0.6	19.8	29.9	3.4	4.87	7.2	424	7.69	24.1	230
	08/09/2001	0	2.1	17.9	29.9	2.2	5.5	10	142	8.01	25.7	251
	09/06/2001	0	0.5	20.2	29.9	2.5	5.82	0.086	13.8	6.49	26.5	203
	10/31/2001	0	7.2	15.4	29.9	0	4.88	0.447	11.8	4.61	26.1	233
	11/21/2001	0	4.3	18.9	29.6	0	5.56	0.159	2.4	6.16	24.1	284
	12/13/2001	0.1	5.3	17.5	29.7	4.76	5.7	0.123	23.7	7.17	23.7	241
	01/25/2002	0	2.9	19.8	29.8	0.26	5.67	0.105	15.4	3.79	21.4	189
	02/22/2002	0	2	19	29.8	0.36	5.2	0.125	6.8	7.09	22.1	230
	03/07/2002	0	2.8	18.8	30.1	1.2	6.27	0.107	8	2.14	20.8	192
	04/11/2002	0	3.8	18.4	30	8	5.6	0.122	14.5	7.45	22.8	138
	05/15/2002	0.3	3.2	17.1	30.2	2.5	6	0.127	442	6.42	23.3	263
CEF-043-9N	06/29/2001	0	6.2	14.3	29.9	0	7	116	72	0.05	25.3	NR
	07/19/2001	0	0.1	20.3	29.9	5.5	4.67	19.2	86.4	2.92	25.8	37
	08/09/2001	0	1.8	18.8	29.9	3.94	6.3	15	118	9.37	27.4	165
	09/06/2001	0	0.5	20.1	30	5	6.42	0.14	8.2	6.94	27.5	194
	10/31/2001	0	1.3	19.6	30	0.6	5.29	0.227	390	0.7	26.3	197
	11/21/2001	0	1.4	21.8	29.6	0.66	5.84	0.239	5.6	2.67	24	151
	12/13/2001	0.2	3.7	17.8	29.7	5.56	6.08	0.185	61.2	5.89	23.8	143
	01/25/2002	0	2.3	20	29.8	0	6.07	0.173	20.1	3.44	21.3	170
	02/22/2002	0	1.9	19.4	29.8	0	5.47	0.177	28	4.41	22.3	233
	03/07/2002	0	1.6	19.4	30.1	0	6.75	0.16	54	3.43	21.1	137
	04/11/2002	0	4.4	15.4	30	22.1	5.65	0.164	146	1.77	23.1	39
	05/15/2002	0.2	1.6	17.7	30.2	1.48	5.42	0.19	50.5	2.12	23.8	158
CEF-043-10	06/29/2001	0	3.2	15.4	29.9	6	6.8	201	319	0.78	26.7	NR
	07/19/2001	0	3.2	16	29.8	18.5	5.54	19.9	482	2.4	27.9	239
	08/09/2001	0	3.6	14.5	29.9	29	4.5	16.2	129	1.48	30.4	266
	09/06/2001	0	3.4	15.2	29.9	25	5.17	12	57.6	3.71	26.5	316
	10/31/2001	0	13	5	29.7	3	NR	NR	NR	NR	NR	NR
	11/21/2001	0.1	6.9	13.9	29.6	4.2	6.18	0.352	0.1	3.94	27.4	220
	12/13/2001	0	6.6	15.1	29.7	27.5	5.87	0.265	999	0.85	26.7	264
	01/25/2002	0	0.9	21	29.8	10.78	5.91	0.311	2	3.16	22.3	185
	02/22/2002	0	3.9	15.1	29.9	2	5.71	0.28	163	3.3	24.8	132

TABLE 3-4
Field Analytical Results

		Air						Groundwater				
Well Identification	Sample Date	Methane (%)	Carbon Dioxide (%)	Oxygen (%)	Pressure (in Hg)	OVA (ppm)	pH	Conductivity (mS/cm)	Turbidity	Dissolved Oxygen (mg/L)	Tempera-ture (°C)	eH (mV)
	03/07/2002	0	3.1	16.8	30.1	10.45	6.74	0.226	4.8	4.99	23.5	138
	04/11/2002	0	4.5	15.1	29.9	12.42	5.71	0.313	419	2.6	26	170
	05/15/2002	0.4	6.8	9.6	30.2	0	6	0.325	468	2.87	26.5	170
CEF-043-19	06/29/2001	0	2	20.3	30	0	7.5	0.055	41	1.8	25.7	NR
	07/19/2001	0	0.1	20.2	29.9	4.1	3.99	3.3	605	5.71	25.1	373
	08/09/2001	0	0.4	20.3	29.9	3.5	4.6	4.5	17.5	3.07	25.1	345
	09/06/2001	0	0.7	20.2	30	2	6.32	0.055	18.7	3.98	26.1	188
	10/31/2001	0.1	0.4	20.3	30	1	4.28	0.046	4	0.48	25.7	290
	11/21/2001	0	0.7	22.4	29.6	0.32	4.81	0.045	2	4.3	24.1	349
	12/13/2001	0.3	1	20.3	29.7	4.84	4.84	0.036	15	3.55	23.6	316
	01/25/2002	0	0.6	21.6	29.8	0	3.85	0.033	0	2.24	21.5	305
	02/22/2002	0	0.7	20.8	29.8	0.8	4.5	0.033	25	5.01	22	279
	03/07/2002	0	0	20.6	30	0	4.05	0.032	67	3.15	21.3	334
	04/11/2002	0	0.6	20.4	30	0	4.73	0.034	0	2.21	22.9	267
	05/15/2002	0.1	0.7	19.7	30.2	1.58	4.39	0.037	29.5	1.18	23.6	307
CEF-043-20	06/29/2001	0	0.5	19.6	29.8	1	6.3	0.018	162	0.34	25.4	NR
	07/19/2001	0	0	20.9	29.8	12.6	4.71	3.2	942	5.23	25.4	264
	08/09/2001	0	0	20	29.9	24	4.5	3.4	68.6	5.4	27.1	276
	09/06/2001	0	0.2	20.3	29.8	9	6.91	0.018	4.5	5.76	26.7	113
	10/31/2001	0	0.2	20.6	29.7	0.3	NR	NR	NR	NR	NR	NR
	11/21/2001	0.1	0.3	22.7	29.6	3.15	5.14	0.058	0.2	2.54	25.1	286
	12/13/2001	0	0.5	21	29.7	10.3	5.05	0.042	19.7	6.46	24.4	259
	01/25/2002	0	0.2	21.7	29.8	4.41	5.21	0.061	0	2.17	21.8	271
	02/22/2002	0	0.4	21	29.8	0.96	6.14	0.042	352	5.87	22.3	162
	03/07/2002	0	0.1	20.4	30.1	4.06	5.3	0.035	30	4.66	21.5	232
	04/11/2002	0	0.2	20.9	29.9	6.01	5.11	0.32	400	3.43	23.5	226
	05/15/2002	0.4	0.3	19.3	30.2	9.04	5.5	0.037	535	3.4	23.8	231
CEF-043-21	06/29/2001	0	1	18.8	29.8	0	6.3	0.221	162	1.62	25.4	NR
	07/19/2001	0	1	19.4	29.8	13.5	5.11	12.6	168	4.79	28.1	234
	08/09/2001	0	0	20	29.9	20.5	5.7	16	171	4.59	33.9	211
	09/06/2001	0	0	20.2	29.8	15	6.53	0.221	5.7	3.75	28.6	125
	10/31/2001	0	0.4	20.3	29.7	0.8	NR	NR	NR	NR	NR	NR
	11/21/2001	0.1	1.7	22.3	29.6	514	6.1	0.124	0.1	0.51	23	191
	12/13/2001	0	1.9	20.3	29.7	6.41	5.93	0.113	3.7	4.87	23.5	234
	01/25/2002	0	0.1	21.7	29.8	4.56	5.88	0.11	1.2	1.11	22.1	170
	02/22/2002	0	1.1	20.5	29.8	0	6.14	0.129	971	4.39	21.6	145
	03/07/2002	0	0	20.6	30.1	4.94	5.78	0.131	4.6	5.6	20.4	219
	04/11/2002	0	0.1	20.8	30	2.1	5.81	0.132	705	3.98	22.9	192
	05/15/2002	0.4	1.1	18.9	30.2	6.04	6	0.114	999	3.55	23.4	240

TABLE 3-4
Field Analytical Results

Well Identification	Sample Date	Air					Groundwater					
		Methane (%)	Carbon Dioxide (%)	Oxygen (%)	Pressure (in Hg)	OVA (ppm)	pH	Conductivity (mS/cm)	Turbidity	Dissolved Oxygen (mg/L)	Tempera-ture (°C)	eH (mV)
CEF-043-22	06/29/2001	0	4.6	14	29.9	0	6.8	0.09	407	0.44	25.9	NR
	07/19/2001	0	5.7	13	29.8	244	4.74	5.7	2.9	3.13	24.9	295
	08/09/2001	0	1.1	18.4	29.9	485	4.3	8.2	72.3	3.54	25.8	290
	09/06/2001	0	1.2	19.4	29.9	18	5.21	0.09	22.7	4.31	25.9	178
	10/31/2001	0	8.7	17	29.9	0	NR	NR	NR	NR	NR	NR
	11/21/2001	0	3.3	20.6	29.6	0	5.22	0.075	26.3	3.36	24.5	315
	12/13/2001	0	4.2	18.5	29.7	2.51	5.42	0.058	687	5.6	23.8	260
	01/25/2002	0	1.9	20.1	29.8	0.25	5.01	0.101	38	3.91	21.5	271
	02/22/2002	0	3.9	16.7	29.9	0.18	5.11	0.057	999	5.62	22.1	235
	03/07/2002	0	2.5	18.2	30	0	4.58	0.05	134	5.59	21	306
	04/11/2002	0	4.1	17.4	29.9	0	5.12	0.055	999	3.72	23.2	238
	05/15/2002	0.4	4.8	15.6	30.2	0	6	0.057	999	3.91	23.5	320
CEF-043-32	06/29/2001	0	3.7	15.8	29.8	0	5.9	0.397	46	1.85	28.2	NR
	07/19/2001	0	0.4	20.2	29.7	10.4	5.06	26.5	133	3.18	29	245
	08/09/2001	0.1	1.3	18.3	29.9	10.25	5.3	57.2	9	2.87	29.1	242
	09/06/2001	0	1.4	12.1	29.9	15	4.9	0.397	27.6	2.91	26.2	321
	10/31/2001	0	1.7	19.5	29.7	0.2	5.32	0.527	251	1.34	28.6	173
	11/21/2001	0.2	0.4	22.4	29.6	3.15	6.04	0.534	3.9	3.8	26.1	192
	12/13/2001	0	1.1	20.7	29.7	4	6.71	0.247	5.8	5.54	25.5	124
	01/25/2002	0	1.3	20.9	29.8	3.64	6.05	0.184	0	4.01	22.6	143
	02/22/2002	0	0.6	20.7	29.8	0.91	5.96	0.293	319	5.81	23.9	165
	03/07/2002	0	0.3	20.1	30.1	2.78	6	0.242	7.4	4.6	22.5	216
	04/11/2002	0	2.8	18.4	29.9	0	6.03	0.257	0	5.39	25	209
	05/15/2002	0.4	0.3	19.7	30.2	1.37	6.5	0.221	35.2	4.96	26.2	196
CEF-043-33	06/29/2001	0	5.1	14.5	29.8	0	6	0.137	543	0.33	28.3	NR
	07/19/2001	0	0.6	20	29.8	7.4	4.43	14.6	283	0.96	29.21	63
	08/09/2001	0.1	4.4	14.5	29.9	8.2	4.5	13.2	5.7	1.06	30.1	55
	09/06/2001	0	4.7	22	29.9	10	4.41	0.137	12	1.51	27.1	72
	10/31/2001	0	7.1	16.7	29.7	0.5	5.01	0.228	1	1.1	29.2	206
	11/21/2001	0.2	5.1	18.5	29.6	0.85	5.72	0.21	0.3	3.78	27.1	228
	12/13/2001	0	6	17.6	29.7	2.62	5.92	0.158	0.1	5.52	26.2	193
	01/25/2002	0	1.1	20.9	29.8	3.37	5.43	0.115	0	3.4	23.6	174
	02/22/2002	0	2	19.5	29.8	0.8	5.74	0.15	0	5.51	24.4	190
	03/07/2002	0	1.1	19.8	30.1	0.63	5.79	0.139	28.2	5.85	22.9	243
	04/11/2002	0	2.3	19	29.9	0.71	5.65	0.173	0	3.65	25.5	221
	05/15/2002	0.4	0.1	19.5	30.2	3.53	6	0.149	0	3.4	26.7	276
CEF-043-34	06/29/2001	0	0	20.4	29.8	2	5.9	0.091	45	0.69	27.2	NR
	07/19/2001	0	0.6	20	29.7	6.8	4.95	10	10.3	1.98	26	201

TABLE 3-4
Field Analytical Results

		Air					Groundwater					
Well Identification	Sample Date	Methane (%)	Carbon Dioxide (%)	Oxygen (%)	Pressure (in Hg)	OVA (ppm)	pH	Conductivity (mS/cm)	Turbidity	Dissolved Oxygen (mg/L)	Tempera-ture (°C)	eH (mV)
	08/09/2001	0.1	0	20.8	29.9	8.45	4.9	8.4	35.2	1.88	27.7	175
	09/06/2001	0	0.2	20.6	29.9	13	5.1	0.091	41	2.17	26.9	187
	10/31/2001	0	5	17.4	29.6	0	5.2	0.095	2.1	0.89	26.2	188
	11/21/2001	0.2	2.2	20.8	29.6	1.55	6.07	0.12	0.1	2.55	23.3	214
	12/13/2001	0	3	19.2	29.7	10.1	6.2	0.085	11.4	6.92	22.6	175
	01/25/2002	0	0.9	21.1	29.8	1.8	5.87	0.058	0	4.63	19.2	166
	02/22/2002	0	1.1	20.1	29.8	0.6	5.84	0.07	2.4	4.23	21.2	170
	03/07/2002	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	04/11/2002	0	1.7	19.3	29.9	0	5.94	0.64	3.1	2.94	22.2	181
	05/15/2002	0.4	1.1	18.6	30.2	3.82	6	0.071	5.1	6.76	24.1	244
CEF-043-38	06/29/2001	0	2.9	15.7	29.8	1	6.3	0.338	167	1.64	26.9	NR
	07/19/2001	0	0.9	19.5	29.7	14.5	5.36	13.7	618	5.31	26.4	167
	08/09/2001	0.1	3.3	13.1	29.9	14	5.1	30.9	121	5.45	26.8	239
	09/06/2001	0	0.3	20.7	29.9	5.5	6.62	0.338	3.8	6.15	27.9	144
	10/31/2001	0	3.8	19	29.7	0	5.72	0.204	3	1.13	26.7	146
	11/21/2001	0.1	2	21.2	29.6	12.4	6.32	0.259	0.2	4.12	24.8	196
	12/13/2001	0	2.8	19.7	29.7	6.75	6.24	0.099	999	4.86	24.4	217
	01/25/2002	0	1	20.9	29.8	1.72	6.71	0.13	0	4.12	21.5	99
	02/22/2002	0	0.1	21	29.8	2.11	6.2	0.144	59.2	4.82	27.8	140
	03/07/2002	0	0	20.6	30.1	2.8	6.35	0.227	4	7.01	21.2	200
	04/11/2002	0	0.1	20.9	30	2.4	6.02	0.094	999	2.74	23.4	198
	05/15/2002	0.4	0	19.9	30.2	11.69	6	0.104	0.59	3.65	24.1	234
CEF-043-48	06/29/2001	0	0.9	19.4	29.9	0	6.8	0.182	6.53	0.8	23.9	NR
	07/19/2001	0	0.1	20.3	29.9	7.9	4.13	5	380	6.04	24.9	337
	08/09/2001	0	0.2	20.2	29.9	2	5.1	11.5	63.2	7.34	26.1	310
	09/06/2001	0	1.4	19.4	30	2	6.28	0.182	19.2	6.42	27.1	158
	10/31/2001	0	1.2	19.9	30	0	5.46	0.059	345	2.32	25.6	196
	11/21/2001	0	0.8	22.8	29.6	0.27	5.55	0.076	21.2	2.87	23.4	272
	12/13/2001	0	1.2	20.5	29.7	20.4	5.87	0.068	22.9	4.55	23.1	264
	01/25/2002	0	0.3	21.7	29.8	1.54	4.83	0.044	23	3.66	20.9	254
	02/22/2002	0	0.4	20.9	29.8	0.5	5.2	0.054	129	4.96	21.6	247
	03/07/2002	0	0.2	20.4	30.1	0	5.21	0.053	505	4.9	20.7	268
	04/11/2002	0	0.6	20.5	30	0	5.51	0.063	104	2.24	22.6	236
	05/15/2002	0.4	0.2	19.7	30.2	7.36	6	0.043	772	4	23.4	273
CEF-043-50D	06/29/2001	0	0.4	19.2	29.9	2	6.3	0.131	80	1.37	26.7	NR
	07/19/2001	0	0	20.4	29.9	7.2	4.94	14.4	0.8	2.56	25.6	243
	08/09/2001	0	0	20.3	29.9	6.29	5.8	14.4	39.5	3.25	25.9	185
	09/06/2001	0	0.4	20.4	29.9	2.5	5.59	0.144	1.3	2.22	26.3	210

TABLE 3-4
Field Analytical Results

Well Identification	Sample Date	Air					Groundwater					
		Methane (%)	Carbon Dioxide (%)	Oxygen (%)	Pressure (in Hg)	OVA (ppm)	pH	Conductivity (mS/cm)	Turbidity	Dissolved Oxygen (mg/L)	Tempera-ture (°C)	eH (mV)
	10/31/2001	0	0.2	20.1	29.9	2	5.03	0.139	5	2.14	26.6	217
	11/21/2001	0	0.1	23.1	29.6	1.05	5.97	0.16	0	6.01	25.2	262
	12/13/2001	0.1	0.4	21	29.7	4.06	6.03	0.131	0.5	6.75	24.7	253
	01/25/2002	0	0	22	29.8	1.09	5.38	0.144	0	4.13	22.9	225
	02/22/2002	0	0.4	21	29.9	2.03	5.39	0.19	0	6.68	23.7	227
	03/07/2002	0	0	20.8	30	1.8	5.5	0.126	0	5.5	22.7	256
	04/11/2002	0	0	20.9	30	1.56	5.64	0.139	0	5.42	24	187
	05/15/2002	0.3	0.2	19.7	30.2	3.93	6	0.145	7.1	6.35	23.9	274

Note: All measurements taken using direct reading instruments in the field.
% = percent
in Hg = inches of mercury
OVA = organic vapor analyzer
ppm = parts per million
mS/cm = millisiemans per centimeter
NTU = nephelmetric turbidity units
mg/L = milligrams per liter
°C = degrees Celcius
ORP = oxygen reducing potential
mV = millivolts

4.0 Conclusions and Recommendations

The bioventing and biosparging systems operated consistently during the monitoring period. The resulting operational efficiency of the bioventing and biosparging systems during the monitoring period was 99.8 percent and 99.3 percent, respectively. The bioventing system actual blower discharge pressure and total air injection flow rate averaged 90 percent and 109 percent of design specifications, respectively. The biosparging system actual injection discharge pressure averaged 116% of the design specification.

The annual soil screening and sampling event indicated that 4 of the 15 soil boring locations continue to exhibit soil contaminant concentrations in excess of the FDEP SCTLs.

The annual groundwater sampling event indicated that three of the six sampled monitoring wells continue to exhibit groundwater contaminant concentrations in excess of the FDEP GCTLs but are below the natural attenuation default source criteria.

The field analytical testing indicates that biological activity is occurring at the site. The biosparging injection continues to provide sufficient oxygen as indicated by the dissolved oxygen readings being greater than 1 mg/L.

CCI/J.A. Jones recommends continuing the operation of the bioventing and biosparging remediation systems. The Navy CLEAN contractor is currently evaluating remedial alternatives to supplement and/or modify the existing bioventing and biosparging systems. Operation of the current bioventing and biosparging systems will continue until implementation of the remedial alternative.

5.0 References

ABB Environmental Services, Inc. October 1996. Remedial Action Plan; South Fuel Farm; Naval Air Station Cecil Field, Jacksonville, Florida.

Bechtel Environmental, Inc. July 1998. Operation and Maintenance Plan Bioventing and Biosparging System; South Fuel Farm; Naval Air Station Cecil Field, Jacksonville, Florida.

Bechtel Environmental, Inc. September 1998. Completion Report for the South Fuel Farm Bioventing and Biosparging Systems; Naval Air Station Cecil Field, Jacksonville, Florida.

CH2M HILL Constructors, Inc. April 2001. Work Plan Addendum No. 12 Operation and Maintenance of the Remediation Systems at Day Tank 1, South Fuel Farm, and 103rd Street and A Avenue; Naval Air Station Cecil Field, Jacksonville, Florida.

Appendix A

FDEP Annual Status Report Form

Active Remediation
Annual Status Report Summary

DEP Form # 62-770.900(5)
Form Title: Active Remediation Annual Status Report Summary
Effective Date: September 23, 1997

Site Name South Fuel Farm
Location Former NAS Cecil Field, Jacksonville, FL
RAP Approval Date / /
Media Contaminated: ☑ Groundwater ☑ Soil

FDEP Facility ID No. _____
Applicable Dates 6 /1 /1 to 5 /31/2
System Startup Date 4 /6 /98

Method of Groundwater Remediation:

☐ Pump-and-Treat
- Design Flow Rate _____ (gpm)
- Actual Flow Rate _____ (gpm)
- Total Vol. Recovered to Date _____ (1000 gal)

☐ In Situ Air Sparging
- Design Air Flow Rate _____ (cfm)
- Actual Air Flow Rate _____ (cfm)
- Estimated Radius of Influence _____ (ft)

☑ Biosparging
- Design Flow Rate 23 acfm (gpm)
- Actual Flow Rate 70 scfm (gpm)

☐ Bioremediation
☐ Other _____

Estimated Total Mass Recovered or Remediated This Period: n/a (lbs)
- Mass Removed by Pump-and-Treat _____ (lbs)
- Mass Removed by VES and/or AS _____ (lbs)
- Mass Removed by FP Recovery _____ (lbs)
- Other Estimated Mass Removed _____ (lbs)
  (specify method: _____)

Concentration of Total VOAs in Designated Wells at End of:

	This Period	Previous Period
• MW-2N	110 ppb	770 ppb
• MW-6N	84 ppb	1161 ppb
• MW-7N	<6 ppb	18 ppb
• MW-9N	90 ppb	105 ppb

Method of Soil Remediation:

☐ Vapor Extraction System (VES)
- Design Air Flow Rate _____ (cfm)
- Actual Air Flow Rate _____ (cfm)
- Estimated Radius of Influence _____ (ft)
- Air Emissions Treatment
  ☐ Discontinued / date / / ☐ Ongoing

☑ Soil Bioventing
- Design Air Flow Rate 36 acfm (cfm)
- Actual Air Flow Rate 87 scfm (cfm)

☐ In Situ Bioremediation
☐ Other _____

Free Product Present: ☐ Yes ☑ No
- Volume Recovered to Date _____ (gal)

Estimated Time of Cleanup for Active Remediation: n/a (days)
- Estimated time of cleanup based on target level concentration C and on the exponential decay equation, $C_1 = C_0 e^{xt_1}$, where C_1 = present concentration at the most contaminated source well (ppb); C_0 = highest initial concentration of applicable chemical of concern at system startup (ppb); x = decay coefficient; and t_1 = length of time between initial and present concentration (days). A semi-log plot for cleanup times should be provided.

Cleanup Time Predicted in RAP: n/a (days) [explain below, difference between RAP and calculated]

O & M Problems: ☐ Yes ☑ No (if yes, provide explanation below)
- No. of scheduled O & M visits _____
- Down-time _____ (days)
- No. of unscheduled O & M visits _____

Description of O & M Problems: _____

Short Description of Effectiveness of Cleanup: 6 monitoring wells exceeded GCTLs at start of remediation. Currently 3 monitoring wells exceed GCTLs. 9 soil boring locations historically exceeded SCTLs. Currently 4 soil boring locations exceed SCTLs.

Recommendations and Proposed Modifications: System modifications are currently being evaluated.

Appendix B

Laboratory Analytical Reports for Soil Samples (provided on CD)

2110-094
Raw Data
HPLC Semi-Volatile Organics
(Method 8310)

Extraction/Analysis Method: 3550/8310

PEL LABORATORIES, INC.

94-20 water

DATE: 10-24-01

Batch # 3720

Sample Number	BLK	RWMS	RWMSD	LCS	2100G4 ZO	2110102 01	2110118 01	02	03	04
Sample Date					10.18.01	10.19.01	10.22.01	10.22.01	10.22.01	10.22.01
Description					CH2MHILL 0625EB1W1 01801	IT MW-6	malcolm pirn Rinsate	malcolm pirn SCC-0	malcolm pirn SCC-1	malcolm pirn SCC-2
Odor					no	yes/fuel	no	no	no	yes
Color					clear	yellow/clear	clear	brown	brown	brown
Sed.					light	light	no	med.	med.	med.
Vol./ Wt.	1000 ml				1000ml	980ml	960ml	900ml	980ml	950ml
pH	7.00				7.00					
Surrogate ID	DS1OF	20 ug/ml	1 ml							
Spike ID	NA	SV 2930 10 ug/ml	1 ml		NA					
ISTD	NA									
Final Solvent	ACN									
Final Vol. (ml)	1 ml									
Date Completed/By:	10.24.01									
Remarks								heavy emulsions	heavy emulsions	heavy emulsions
Stock Loc. Box/Row	/	/	/	/	/	/	/	/	/	/
Spike Witness										

Base Lot # NA

Acid Lot# NA

Extract Lot # DCM = V38214
ACN = CC942

Final Solvent # CC942

Bath Temp 50°C

Extraction/Analysis Method:_____/_____ PEL LABORATORIES, INC. DATE:_____

Sample Number	216118 05	06	07							
Sample Date	10.22.01	10.22.01	10.22.01							
Description	Malcolm Pirn SCC-3	malcolm pirn SCC-4	malcolm pirn SCC-5							
Odor	no	no	no							
Color	brown	grey	brown							
Sed.	light	med.	med.							
Vol./ Wt.	1000 ml	970ml	1000 ml							
pH	7.00 →									
Surrogate ID	05/10F W	20 ug/ml 1 ml →								
Spike ID	NA →									
ISTD	NA →									
Final Solvent	acn →									
Final Vol. (ml)	1 ml →									
Date Completed/By:	10.24.01 SK →									
Remarks	heavy emulsions	heavy emulsions	heavy emulsions							
Stock Loc. Box/Row	/	/	/	/	/	/	/	/	/	/
Spike Witness										

Base Lot #_____
Acid Lot#_____
Extraction Lot #_____

Final Solvent Lot #_____

Bath Temp _____

DATE: 10/25/01

PEL LABORATORIES, INC.

Extraction/Analysis Method: SOIL / 8310

BATCH # 3730

Sample Number	BLK	SS	SSD	LCS	2110094 01 10/18/01	02	03	04	05	06
Sample Date										
Description	OTTAWA SAND				N BROWN SOIL					
Odor	N									
Color	N									
Sed.										
Vol./ Wt.	32.6	33.0	33.0	33.0	32.7	32.9	32.9	32.8	33.0	32.6
pH										
Surrogate ID SV3211-C	@ 20 ug/ml (add 1 ml)									
Spike ID SV2930	@ ug/ml (add ml)									
ISTD										
Final Solvent	ACN									
Final Vol. (ml)	1 ml									
Date Completed/By:	10/26/01					Low Extract Clogged Filter				
Remarks										
Stock Loc. Box/Row	1	1	1	1	1	1	1	1	1	1
Spike Witness										

10-26-01

Base Lot # N/A

Acid Lot# N/A

Final Solvent Lot # CC942

Bath Temp 50°

PEL LABORATORIES, INC.

Extraction/Analysis Method: SOIL 1831D

BATCH # 3730

Sample Number	2110094 07	MS 08	MSD 09	10	11	12	13	14	15	16
Sample Date	10/10/01									
Description										LIGHT
Odor	N									
Color	BROWN									
Sed.	SOIL									
Vol./ Wt.	32.4	32.8	32.7	32.6	33.0	32.8	32.9	32.7	32.9	33.0
pH										
Surrogate ID @ 20 ug/ml (add 1ml) RH SV3211-C	N	N	N	N	N	N	Hn	N	N	N
Spike ID SV2930 @ 20 ug/ml (add 1ml) RH										
ISTD										
Final Solvent										
Final Vol. (ml)										
Date Completed/By:	10/20/01 RH									
Remarks										
Stock Loc. Box/Row	/	/	/	/	/	/	/	/	/	/
Spike Witness		Hn	N							

10-26-01

Bath Temp 50

Base Lot # N/A

Acid Lot# N/A

Extraction Lot # CC942

Final Solvent Lot # CC942

Extraction/Analysis Method: SOIL 8310

PEL LABORATORIES, INC.

BATCH # 37930

DATE: 10/25/07

Sample Number	2110094 17	18	19							
Sample Date	10/18/07	→	→							
Description										
Odor	N	→	→							
Color	BROWN	→	→							
Sed.	SOIL	→	→							
Vol./ Wt.	32.7	32.6	32.7							
pH										
Surrogate ID SV3211-C @ 20 ug/ml	N (add 1 ml) RP									
Spike ID SV 2530 @ 20 ug/ml	(add 1 ml) RP									
ISTD										
Final Solvent										→
Final Vol. (ml)										
Date Completed/By:	10/26/07 AB	←	←	←	←	←	←	←	←	←
Remarks										
Stock Loc. Box/Row	1	1	1	1	1	1	1	1	1	1
Spike Witness										

Base Lot # N/A

Acid Lot#: CC 942

Extraction Lot #

Final Solvent Lot # CC 942

Bath Temp 50

9/20/01 Rowel 8310 9/19/00 Rowel 25

L209 (20B) 1

1	15 Std 2852
2	5 Std 2854
3	30 Std 2850
4	20 Std 2851
5	10 Std 2853
6	0.5 Std 2855
7	0.2 Std 2856
21	see Std 2825

Rowel 9/20/01

(cont.)

RESTART 19B

1	2109-43-2
2	-3
21	15 Std 2825
3	2109-53-6 1/10
21	15 Std 2825

L209 (9B) 1

21	15 Std 2825
1	2109-53-1
2	-2
3	-3
4	-4
5	-5
6	-6
7	-7
8	-8
9	-9
10	-10
21	15 Std 2825
11	2109-53-11
12	-12
13	-13
14	-17 MS
15	-18 MSD
16	48088 0998 A B
17	89 LC
18	90 MS
19	91 MSD
20	2109-43-1
21	15 Std 2825

cont

Rowel 9/30/01

PEL Laboratories

Data file : \\SVHPLC\ee\chem\slc02.i\RECAL0920A.B\A30UGML.D
Lab Smp Id: 30ugml Client Smp ID: A30UGML
Inj Date : 20-SEP-2001 13:58
Operator : rood Inst ID: slc02.i
Smp Info : 30st2850
Misc Info :
Comment :
Method : \\SVHPLC\ee\chem\slc02.i\RECAL0920A.B\8310A.m
Meth Date : 01-Nov-2001 10:22 rrood Quant Type: ISTD
Cal Date : 20-SEP-2001 13:58 Cal File: A30UGML.D
Als bottle: 3 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.04 Sample Matrix: WATER
Processing Host: SVHPLC

Concentration Formula: Amt * DF * 1/(Vo/1000)*Vt

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume Extracted
Vt	1.000	

					AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO
* 1 Carbazole (ISTD)							CAS #: 86-74-8	
10.656	10.676	(1.000)	VWD1A	248284			80.00- 120.00	100.00(M)
10.748	10.764	(1.009)	ADC1A	2182992	10.0000		707.26-1060.89	879.23
2 Naphthalene							CAS #: 91-20-3	
11.826	11.843	(1.110)	VWD1A	158054	30.0000	28.4	80.00- 120.00	100.00(M)
11.920	11.934	(1.119)	ADC1A	210141	30.0000	34.8	77.24- 115.86	132.96
3 Acenaphthylene							CAS #: 208-96-8	
13.066	13.076	(1.226)	VWD1A	120118	30.0000	29.0		
4 1-Methyl naphthalene							CAS #: 90-12-0	
13.693	13.703	(1.285)	VWD1A	96667	30.0000	29.0	80.00- 120.00	100.00(M)
13.788	13.798	(1.294)	ADC1A	401524	30.0000	30.3	315.83- 473.75	415.37

RT	EXP RT	REL RT	SIGNAL	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
5 2-Methyl naphthalene						CAS #: 91-57-6		
14.026	14.036	(1.316)	VWD1A	135584	30.0000	28.7	80.00- 120.00	100.00
14.121	14.131	(1.325)	ADC1A	381733	30.0000	33.3	160.98- 241.47	281.55
6 Acenaphthene						CAS #: 83-32-9		
14.363	14.376	(1.348)	VWD1A	64002	30.0000	27.9	80.00- 120.00	100.00
14.458	14.466	(1.357)	ADC1A	875576	30.0000	31.4	841.01-1261.52	1368.04
7 Fluorene						CAS #: 86-73-7		
14.726	14.736	(1.382)	VWD1A	733676	30.0000	28.8	80.00- 120.00	100.00(M)
14.825	14.826	(1.391)	ADC1A	94814	30.0000	29.9	9.84- 14.77	12.92
8 Phenanthrene						CAS #: 85-01-8		
15.540	15.546	(1.458)	VWD1A	2024737	30.0000	28.4	80.00- 120.00	100.00
15.636	15.639	(1.467)	ADC1A	2164632	30.0000	31.7	72.60- 108.90	106.91
9 Anthracene						CAS #: 120-12-7		
16.260	16.270	(1.526)	VWD1A	4020845			80.00- 120.00	100.00
16.356	16.361	(1.535)	ADC1A	299535	30.0000	30.6	4.32- 6.48	7.45
10 Fluoranthene						CAS #: 206-44-0		
17.106	17.116	(1.605)	VWD1A	484816	30.0000	28.5	80.00- 120.00	100.00(M)
17.205	17.216	(1.614)	ADC1A	41061	30.0000	30.4	6.09- 9.13	8.47
11 Pyrene						CAS #: 129-00-0		
17.653	17.663	(1.657)	VWD1A	383935	30.0000	29.2	80.00- 120.00	100.00(M)
17.758	17.761	(1.666)	ADC1A	4249026	30.0000	31.4	851.54-1277.31	1106.70
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.630	18.640	(1.748)	VWD1A	446023	30.0000	30.3	80.00- 120.00	100.00(M)
18.730	18.736	(1.758)	ADC1A	13568056	30.0000	30.6	2363.40-3545.10	3042.01
13 Benzo(a)Anthracene						CAS #: 56-55-3		
19.470	19.480	(1.827)	VWD1A	1146013	30.0000	28.4	80.00- 120.00	100.00
19.571	19.576	(1.837)	ADC1A	13865067	30.0000	29.8	915.32-1372.98	1209.85
14 Chrysene						CAS #: 218-01-9		
19.863	19.870	(1.864)	VWD1A	1606727	30.0000	28.4	80.00- 120.00	100.00
19.961	19.968	(1.873)	ADC1A	4053316	30.0000	30.3	177.93- 266.90	252.27
15 Benzo(b)Fluoranthene						CAS #: 205-99-2		
21.296	21.306	(1.998)	VWD1A	1260924	30.0000	28.9	80.00- 120.00	100.00
21.400	21.404	(2.008)	ADC1A	399267	30.0000	32.4	18.09- 27.13	31.66
16 Benzo(k)Fluoranthene						CAS #: 207-08-9		
21.923	21.936	(2.057)	VWD1A	991987	30.0000	29.5	80.00- 120.00	100.00

					AMOUNTS CAL-AMT	ON-COL		
RT	EXP RT	REL RT	SIGNAL	RESPONSE	(ug/ml)	(ug/ml)	TARGET RANGE	RATIO
16 Benzo(k)Fluoranthene (continued)								
22.026	22.034	(2.067)	ADC1A	744917	30.0000	31.2	54.68- 82.01	75.09
17 Benzo(a)pyrene						CAS #: 50-32-8		
22.523	22.533	(2.114)	VWD1A	1146536	30.0000	29.6	80.00- 120.00	100.00
22.626	22.634	(2.123)	ADC1A	2088796	30.0000	30.4	134.63- 201.95	182.18
18 Dibenz(ah)Anthracene						CAS #: 53-70-3		
23.526	23.543	(2.208)	VWD1A	283811	30.0000	29.8	80.00- 120.00	100.00
23.630	23.643	(2.217)	ADC1A	3561922	30.0000	31.4	886.06-1329.09	1255.03
19 Benzo(ghi)Perylene						CAS #: 191-24-2		
24.270	24.286	(2.277)	VWD1A	454250			80.00- 120.00	100.00
24.375	24.388	(2.287)	ADC1A	1069137	30.0000	32.3	154.26- 231.38	235.36
20 Indeno(123cd)Pyrene						CAS #: 193-39-5		
24.740	24.756	(2.322)	VWD1A	1186397	30.0000	29.6		

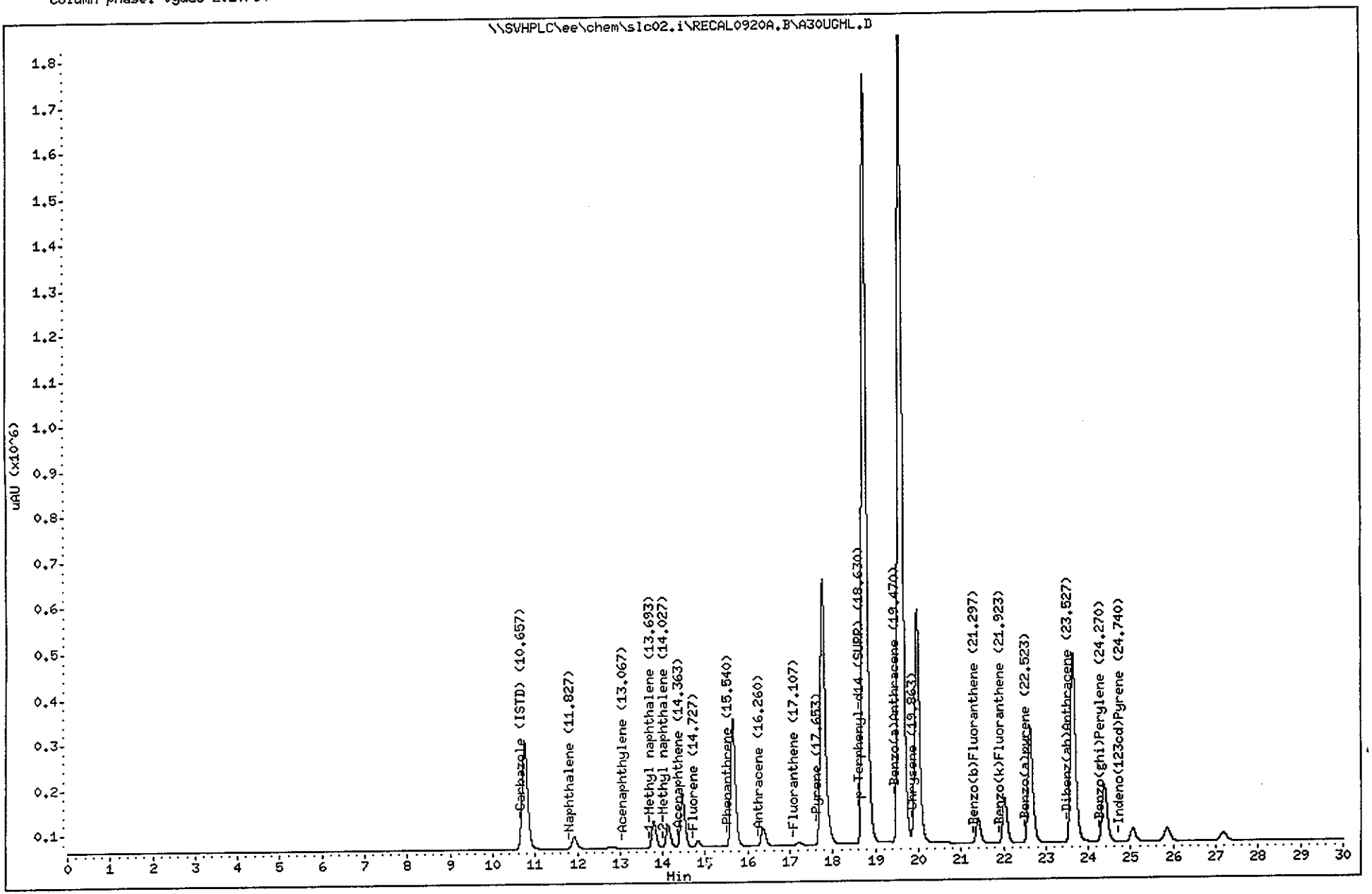
QC Flag Legend

M - Compound response manually integrated.

Data File: \\SVHPLC\ee\chem\slc02.i\RECAL0920A.B\A30UGML.D
Date : 20-SEP-2001 13:58
Client ID: A30UGML
Sample Info: 30st2850
Purge Volume: 1000.0
Column phase: Vydac 201TP54

Instrument: slc02.i

Operator: rood
Column diameter: 4.60



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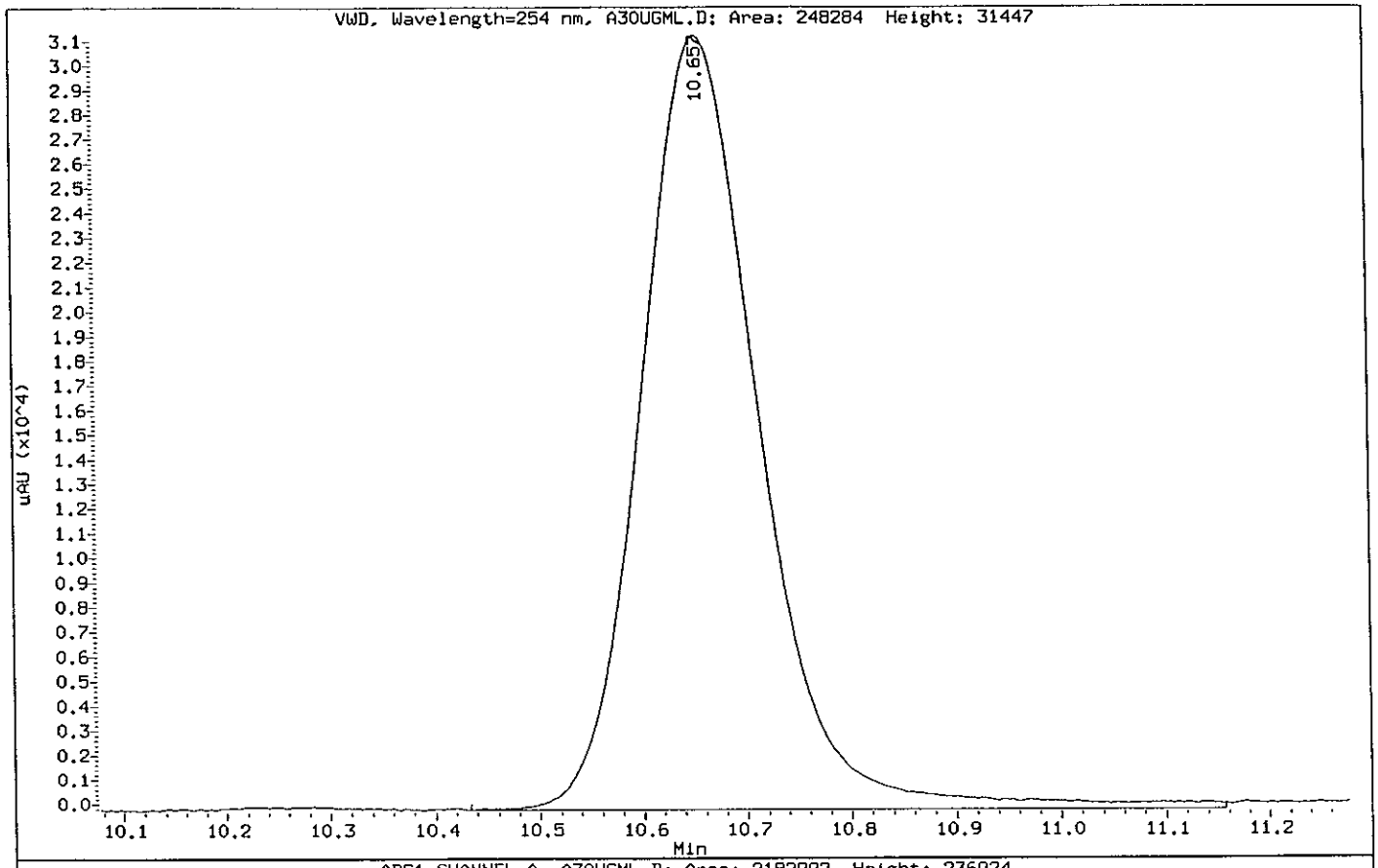
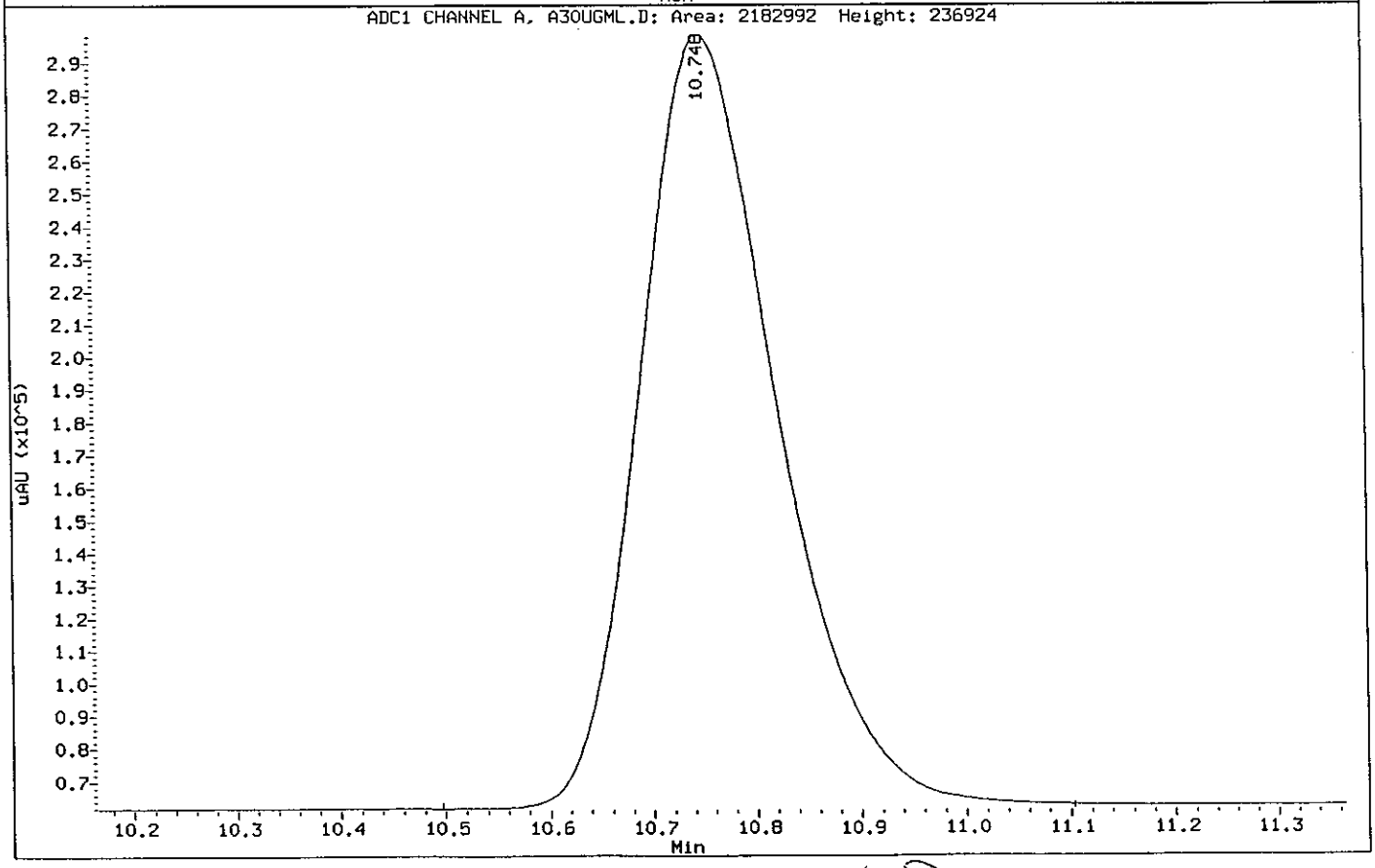
Injection Date: 20-SEP-2001 13:58
Instrument: slc02.i
Client Sample ID: A30UGML

Compound: Carbazole (ISTD)
CAS Number: 86-74-8





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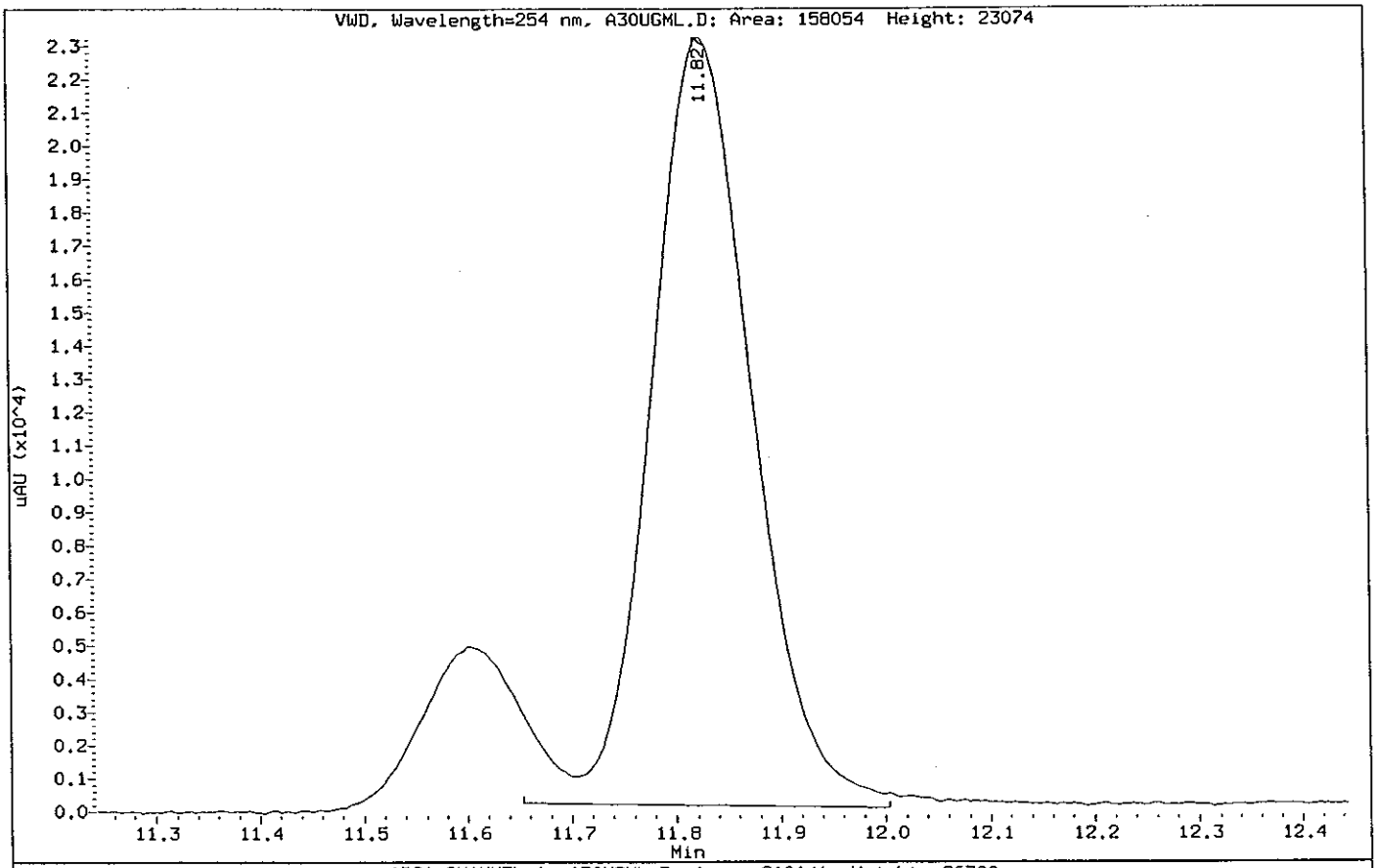
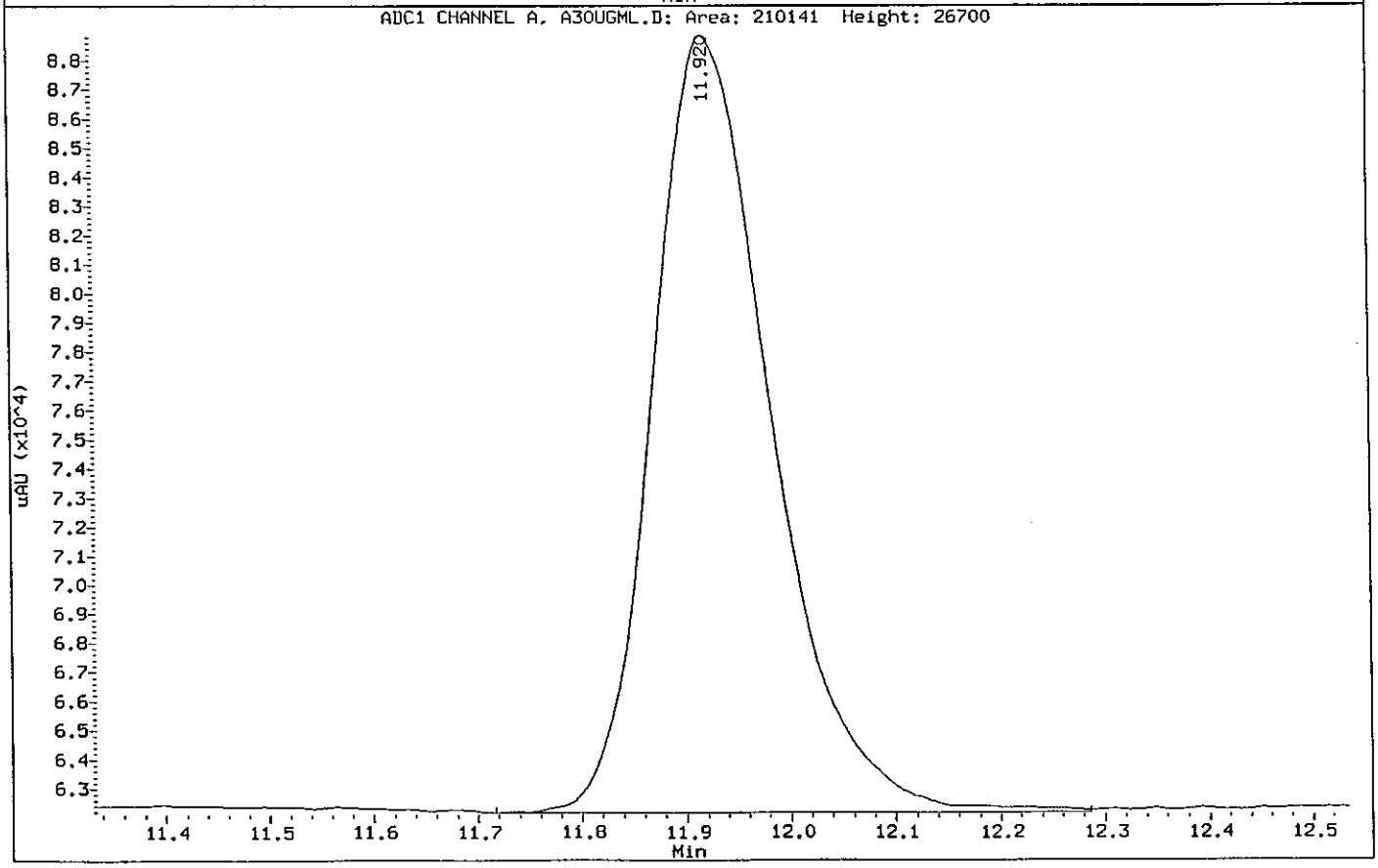
Instrument: slc02.i
Client Sample ID: A30UGML

Compound: Naphthalene
CAS Number: 91-20-3





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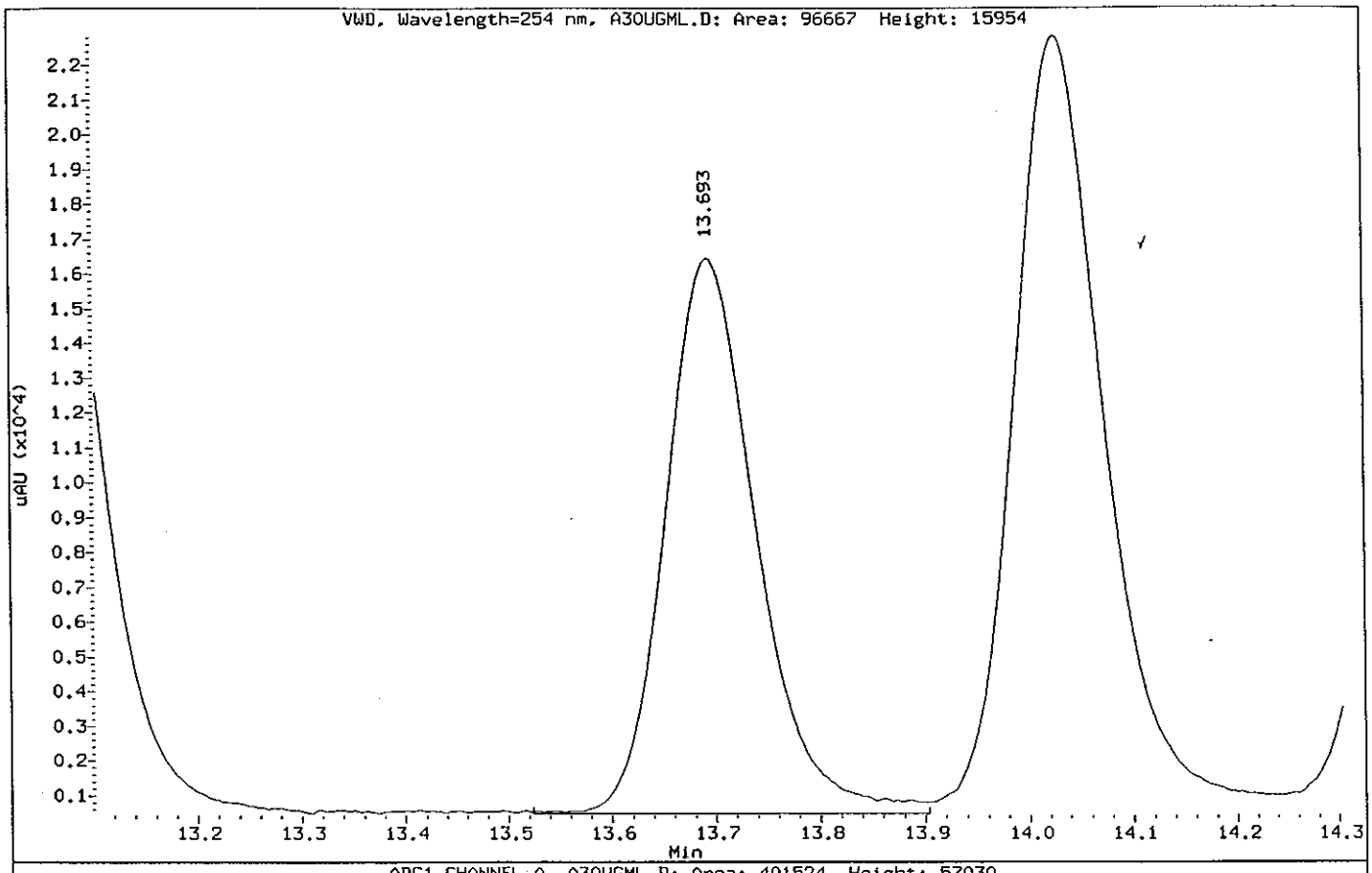
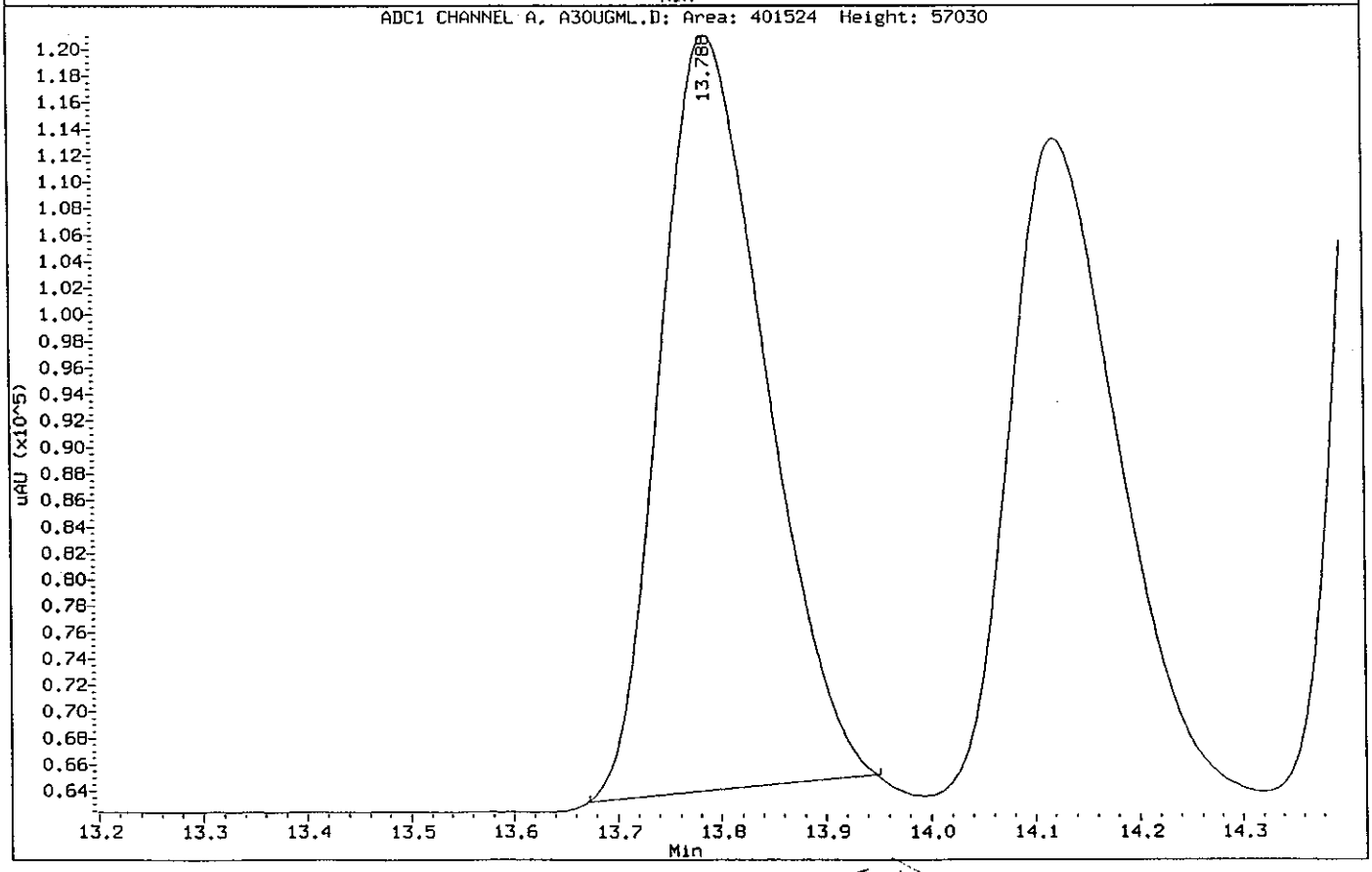
Injection Date: 20-SEP-2001 13:58
Instrument: slc02.i
Client Sample ID: A30UGML

Compound: 1-Methyl naphthalene
CAS Number: 90-12-0





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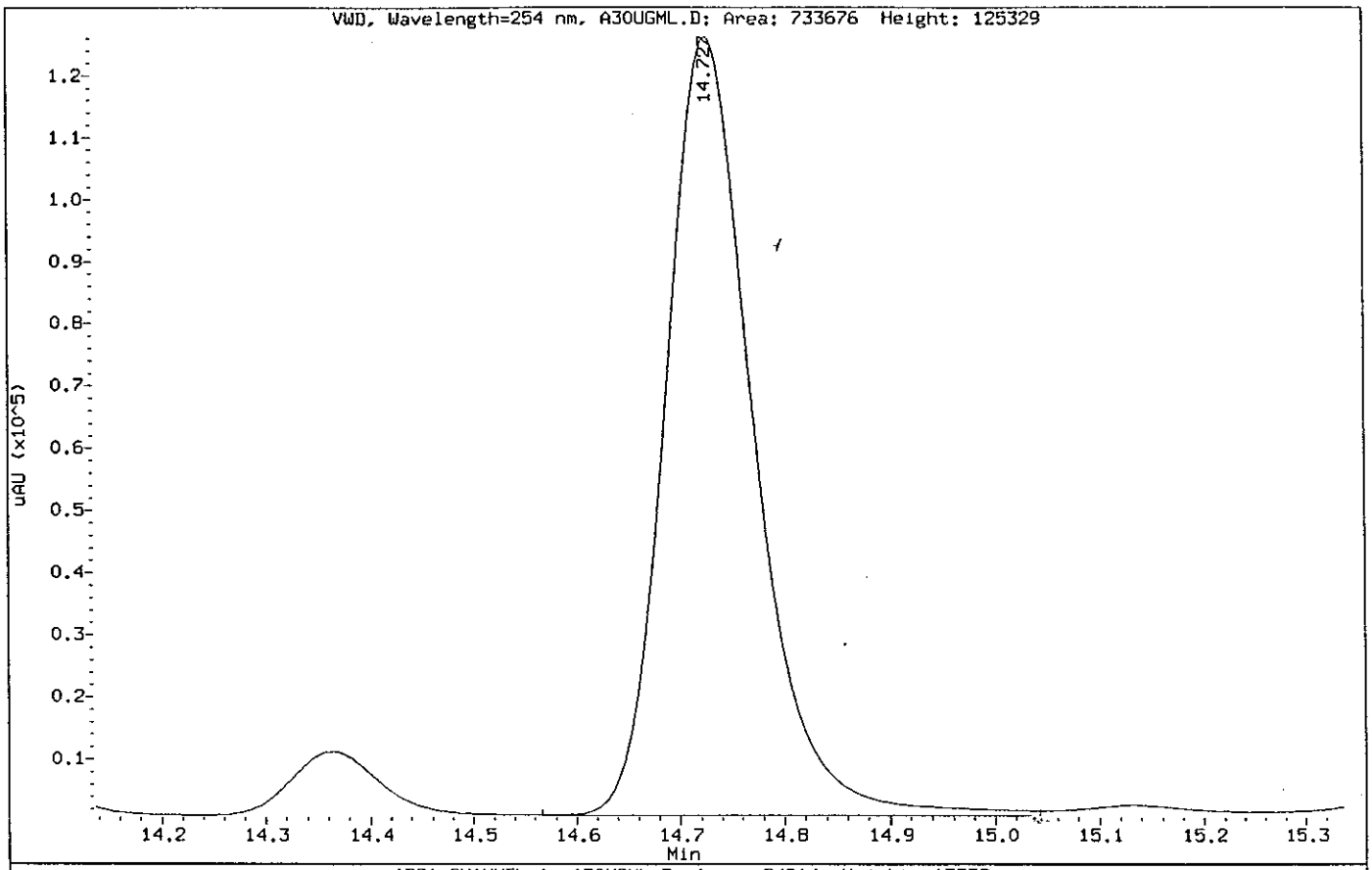
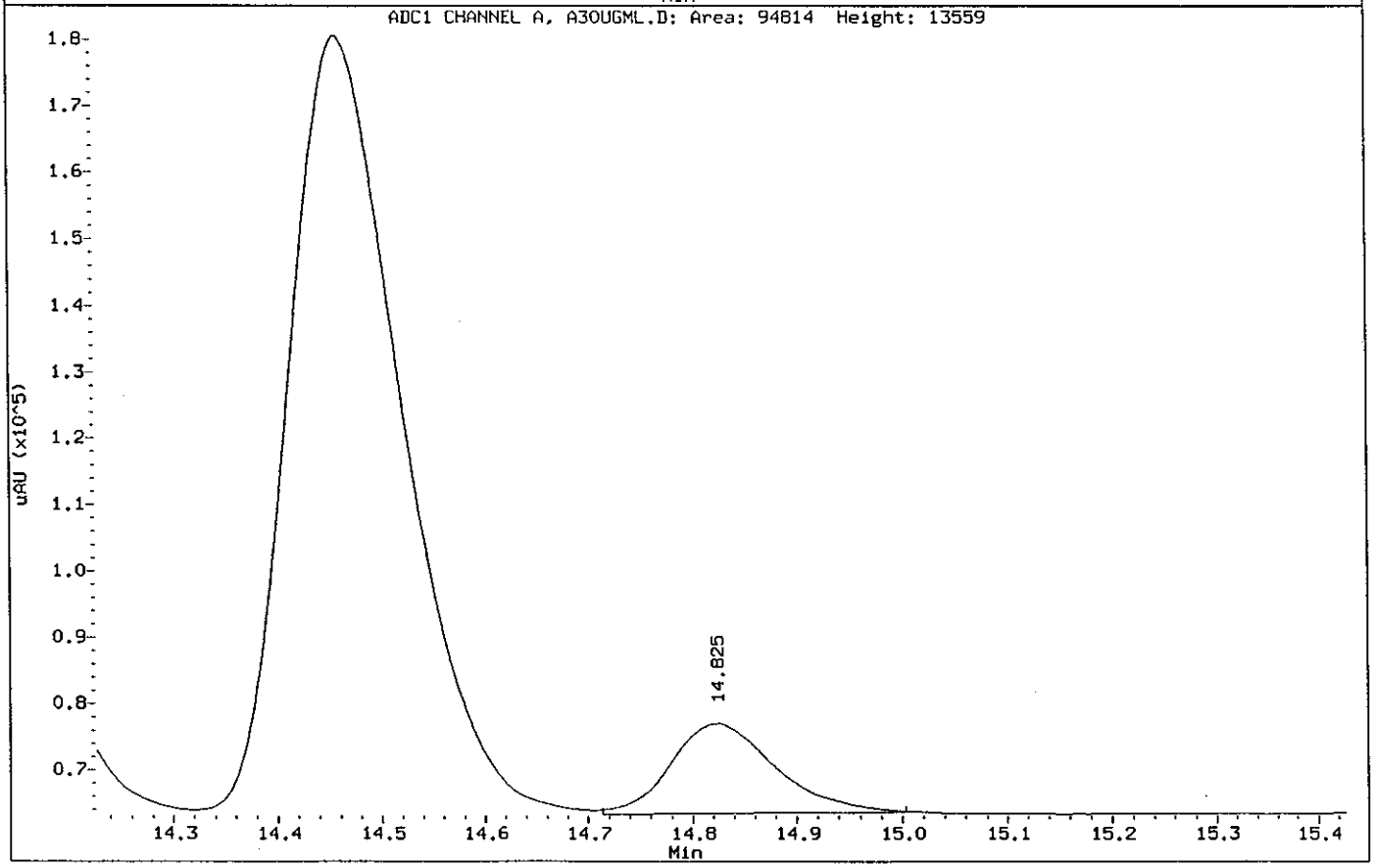
Instrument: slc02.i
Client Sample ID: A30UGML

Compound: Fluorene
CAS Number: 86-73-7





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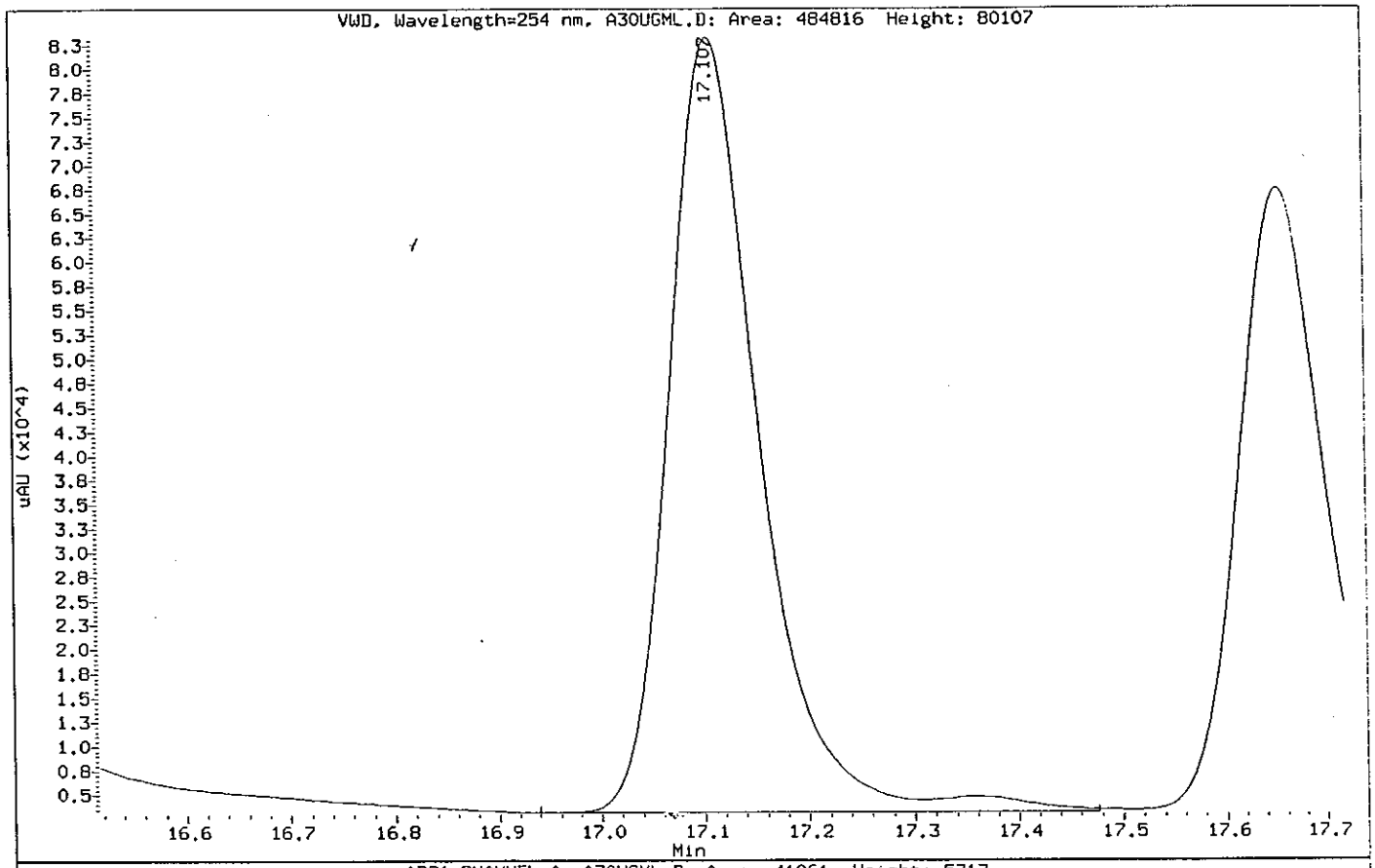
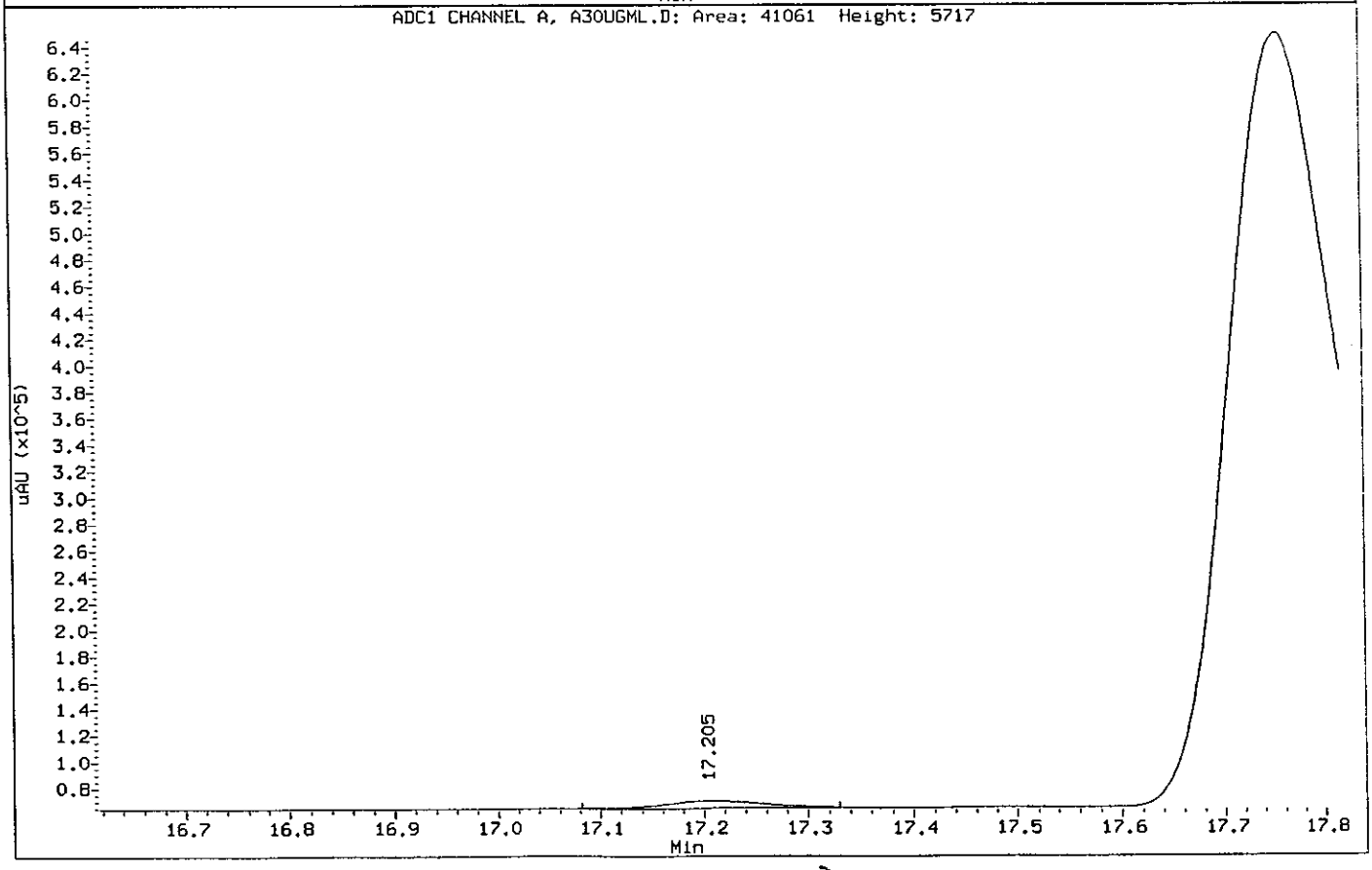
Instrument: slc02.i
Client Sample ID: A30UGML

Compound: Fluoranthene
CAS Number: 206-44-0





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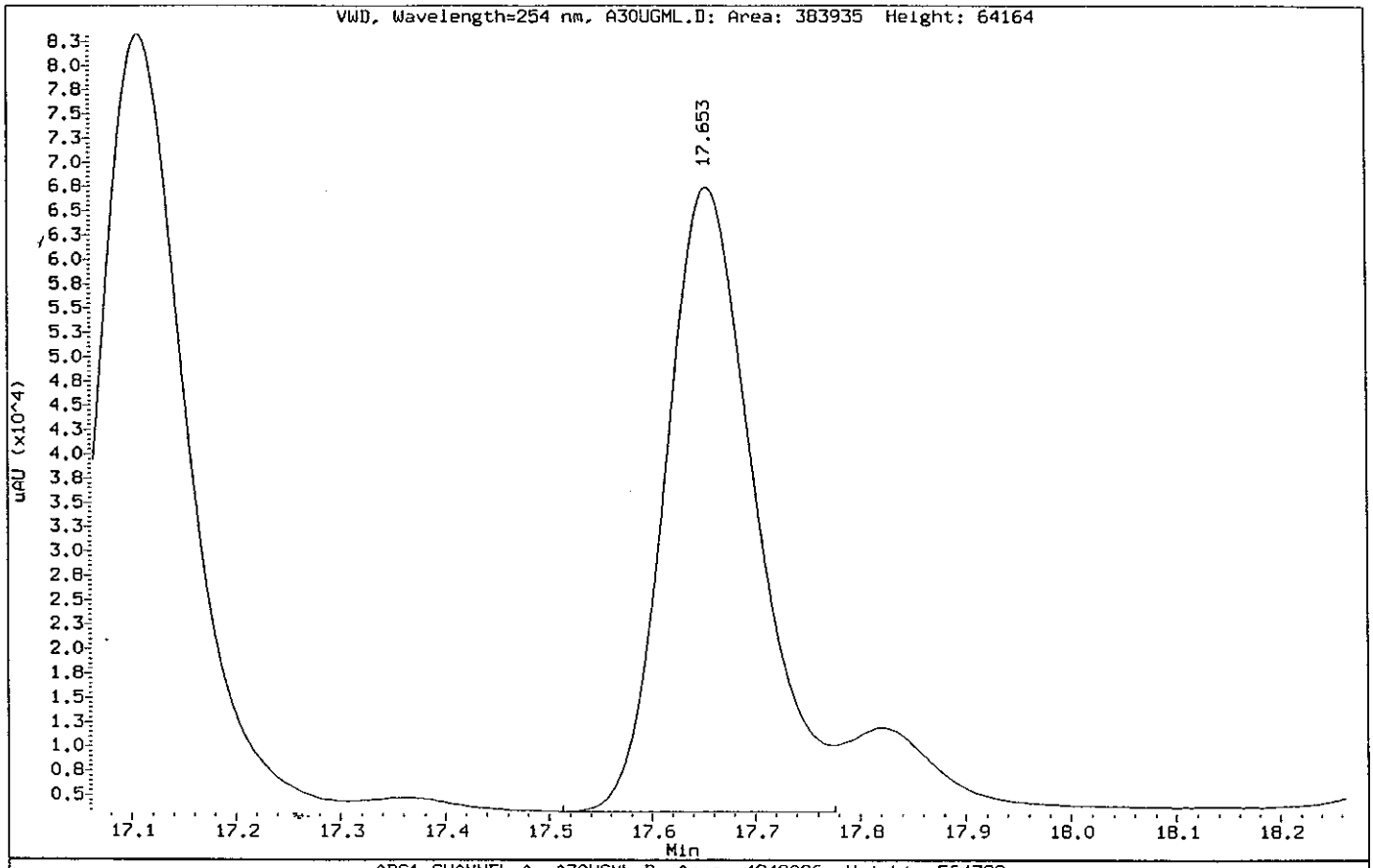
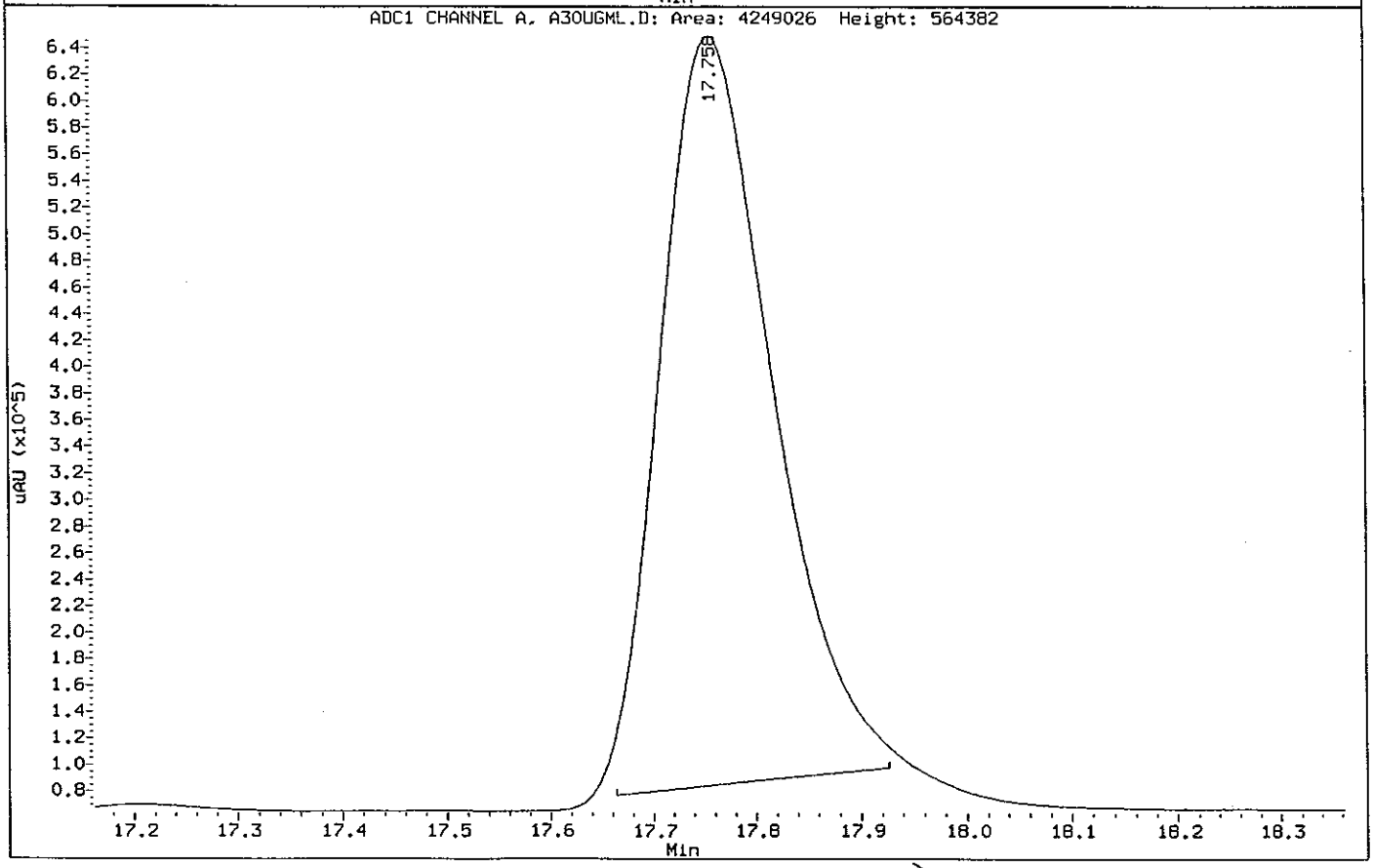
Instrument: slc02.i
Client Sample ID: A30UGML

Compound: Pyrene
CAS Number: 129-00-0





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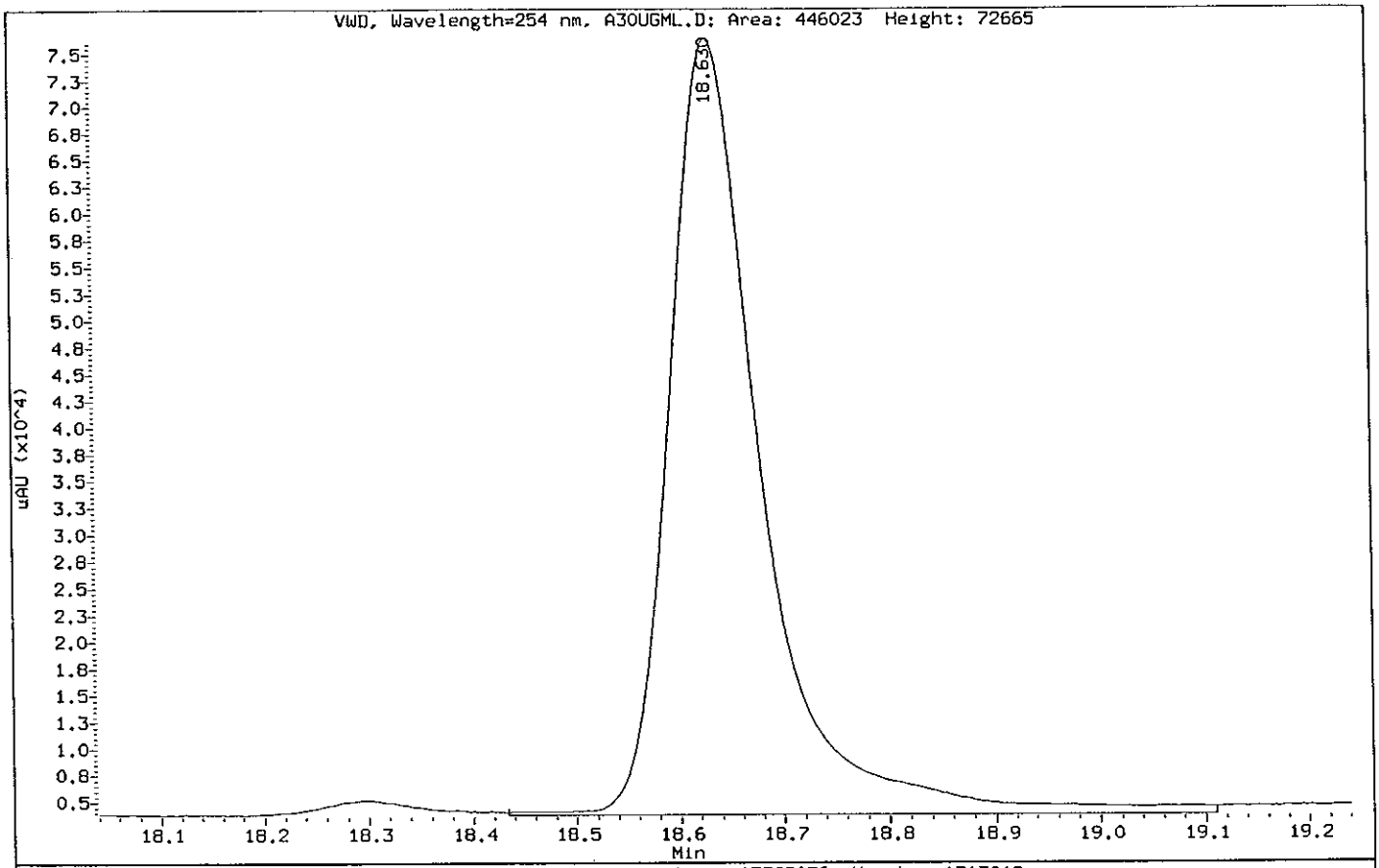
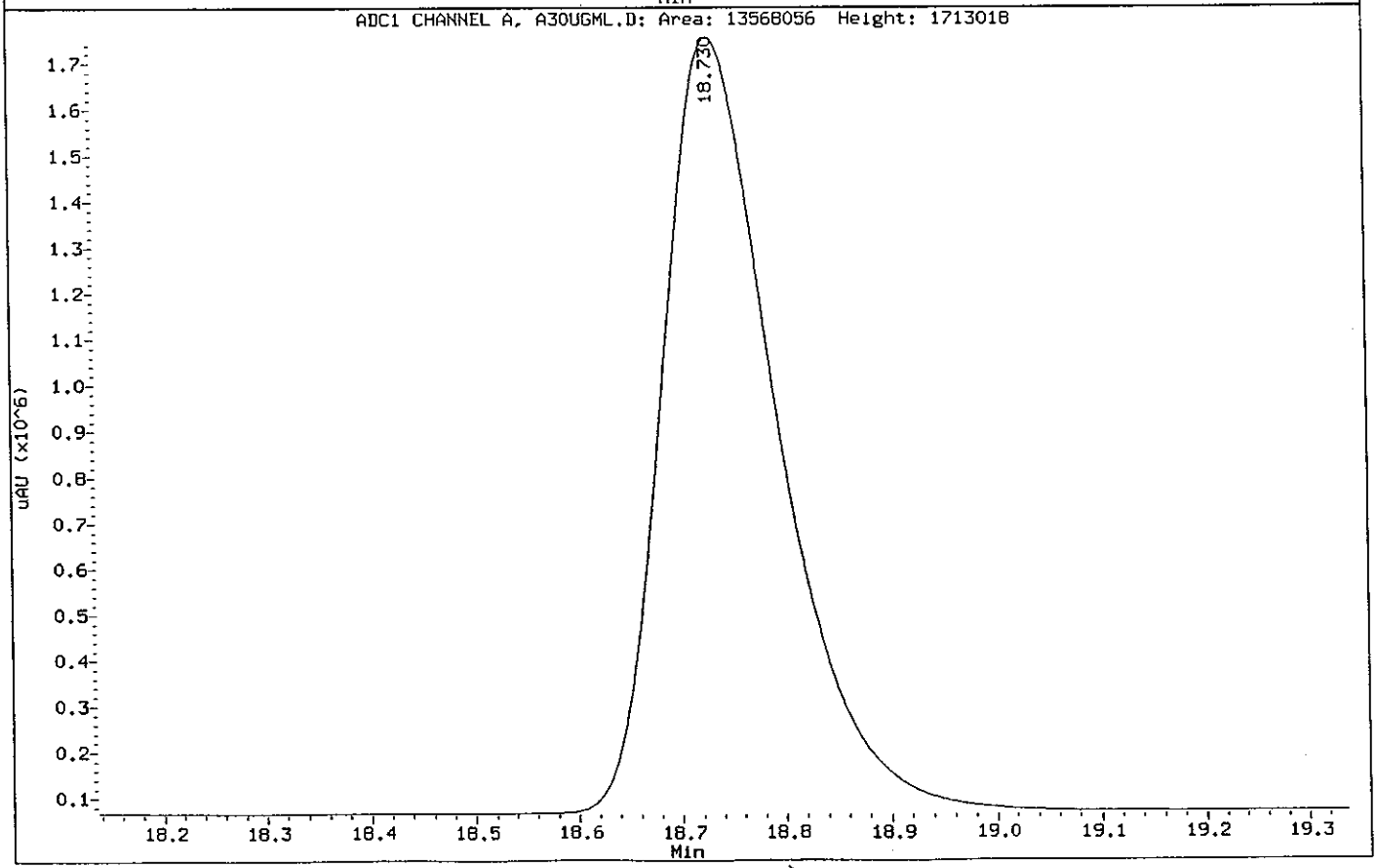
Injection Date: 20-SEP-2001 13:58
Instrument: slc02.i
Client Sample ID: A30UGML

Compound: p-Terphenyl-d14 (SURR)
CAS Number: 1718-51-0





JMD

PEL Laboratories

Data file : \\SVHPLC\ee\chem\slc02.i\RECAL0920A.B\A20UGML.D
Lab Smp Id: 20ugml Client Smp ID: A20UGML
Inj Date : 20-SEP-2001 16:16
Operator : rood Inst ID: slc02.i
Smp Info : 20st2851
Misc Info :
Comment :
Method : \\SVHPLC\ee\chem\slc02.i\RECAL0920A.B\8310A.m
Meth Date : 01-Nov-2001 10:22 rrood Quant Type: ISTD
Cal Date : 20-SEP-2001 13:58 Cal File: A30UGML.D
Als bottle: 4 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.04 Sample Matrix: WATER
Processing Host: SVHPLC

Concentration Formula: Amt * DF * 1/(Vo/1000)*Vt

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume Extracted
Vt	1.000	

						AMOUNTS CAL-AMT	AMOUNTS ON-COL		
RT	EXP RT	REL RT	SIGNAL	RESPONSE		(ug/ml)	(ug/ml)	TARGET RANGE	RATIO
**	======	========	======	========		=======	=======	==========	=====
* 1 Carbazole (ISTD)							CAS #: 86-74-8		
10.640	10.676	(1.000)	VWD1A	241668				80.00- 120.00	100.00
10.733	10.764	(1.000)	ADC1A	2095171	10.0000			707.26-1060.89	866.96
2 Naphthalene							CAS #: 91-20-3		
11.813	11.843	(1.110)	VWD1A	107421	20.0000		20.1	80.00- 120.00	100.00(M)
11.910	11.934	(1.119)	ADC1A	118868	20.0000		20.5	77.24- 115.86	110.66
3 Acenaphthylene							CAS #: 208-96-8		
13.050	13.076	(1.227)	VWD1A	79448	20.0000		20.0		
4 1-Methyl naphthalene							CAS #: 90-12-0		
13.676	13.703	(1.285)	VWD1A	64732	20.0000		20.3	80.00- 120.00	100.00
13.770	13.798	(1.294)	ADC1A	255400	20.0000		20.0	315.83- 473.75	394.55

RT	EXP RT	REL RT	SIGNAL	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
5 2-Methyl naphthalene						CAS #: 91-57-6		
14.006	14.036	(1.316)	VWD1A	89406	20.0000	19.7	80.00- 120.00	100.00
14.103	14.131	(1.326)	ADC1A	219639	20.0000	20.0	160.98- 241.47	245.66
6 Acenaphthene						CAS #: 83-32-9		
14.343	14.376	(1.348)	VWD1A	42018	20.0000	19.1	80.00- 120.00	100.00
14.437	14.466	(1.357)	ADC1A	534742	20.0000	20.0	841.01-1261.52	1272.65
7 Fluorene						CAS #: 86-73-7		
14.706	14.736	(1.382)	VWD1A	489010	20.0000	20.0	80.00- 120.00	100.00
14.800	14.826	(1.391)	ADC1A	59979	20.0000	19.7	9.84- 14.77	12.27
8 Phenanthrene						CAS #: 85-01-8		
15.523	15.546	(1.459)	VWD1A	1361625	20.0000	19.9	80.00- 120.00	100.00(M)
15.618	15.639	(1.468)	ADC1A	1319541	20.0000	20.1	72.60- 108.90	96.91
9 Anthracene						CAS #: 120-12-7		
16.243	16.270	(1.527)	VWD1A	2865733			80.00- 120.00	100.00
16.338	16.361	(1.536)	ADC1A	191560	20.0000	20.4	4.32- 6.48	6.68
10 Fluoranthene						CAS #: 206-44-0		
17.090	17.116	(1.606)	VWD1A	322864	20.0000	19.8	80.00- 120.00	100.00
17.188	17.216	(1.616)	ADC1A	25548	20.0000	19.7	6.09- 9.13	7.91
11 Pyrene						CAS #: 129-00-0		
17.630	17.663	(1.657)	VWD1A	257133	20.0000	20.4	80.00- 120.00	100.00
17.732	17.761	(1.667)	ADC1A	2568775	20.0000	19.8	851.54-1277.31	999.01
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.606	18.640	(1.749)	VWD1A	291560	20.0000	20.6	80.00- 120.00	100.00(M)
18.705	18.736	(1.758)	ADC1A	8642036	20.0000	20.3	2363.40-3545.10	2964.07
13 Benzo(a)Anthracene						CAS #: 56-55-3		
19.440	19.480	(1.827)	VWD1A	766335	20.0000	19.8	80.00- 120.00	100.00
19.540	19.576	(1.837)	ADC1A	8883889	20.0000	19.9	915.32-1372.98	1159.27
14 Chrysene						CAS #: 218-01-9		
19.833	19.870	(1.864)	VWD1A	1070261	20.0000	19.7	80.00- 120.00	100.00
19.933	19.968	(1.873)	ADC1A	2521504	20.0000	19.6	177.93- 266.90	235.60
15 Benzo(b)Fluoranthene						CAS #: 205-99-2		
21.270	21.306	(1.999)	VWD1A	848669	20.0000	20.2	80.00- 120.00	100.00(M)
21.370	21.404	(2.009)	ADC1A	243133	20.0000	20.6	18.09- 27.13	28.65
16 Benzo(k)Fluoranthene						CAS #: 207-08-9		
21.893	21.936	(2.058)	VWD1A	648727	20.0000	20.1	80.00- 120.00	100.00

RT	EXP RT	REL RT	SIGNAL	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
16 Benzo(k)Fluoranthene (continued)								
21.995	22.034	(2.067)	ADC1A	475701	20.0000	20.8	54.68- 82.01	73.33
17 Benzo(a)pyrene						CAS #: 50-32-8		
22.490	22.533	(2.114)	VWD1A	761557	20.0000	20.5	80.00- 120.00	100.00
22.592	22.634	(2.123)	ADC1A	1322678	20.0000	20.1	134.63- 201.95	173.68
18 Dibenz(ah)Anthracene						CAS #: 53-70-3		
23.503	23.543	(2.209)	VWD1A	178831	20.0000	19.5	80.00- 120.00	100.00(M)
23.607	23.643	(2.219)	ADC1A	2263956	20.0000	20.8	886.06-1329.09	1265.98
19 Benzo(ghi)Perylene						CAS #: 191-24-2		
24.243	24.286	(2.279)	VWD1A	301091			80.00- 120.00	100.00
24.347	24.388	(2.288)	ADC1A	640700	20.0000	20.2	154.26- 231.38	212.79
20 Indeno(123cd)Pyrene						CAS #: 193-39-5		
24.710	24.756	(2.322)	VWD1A	786448	20.0000	20.4		

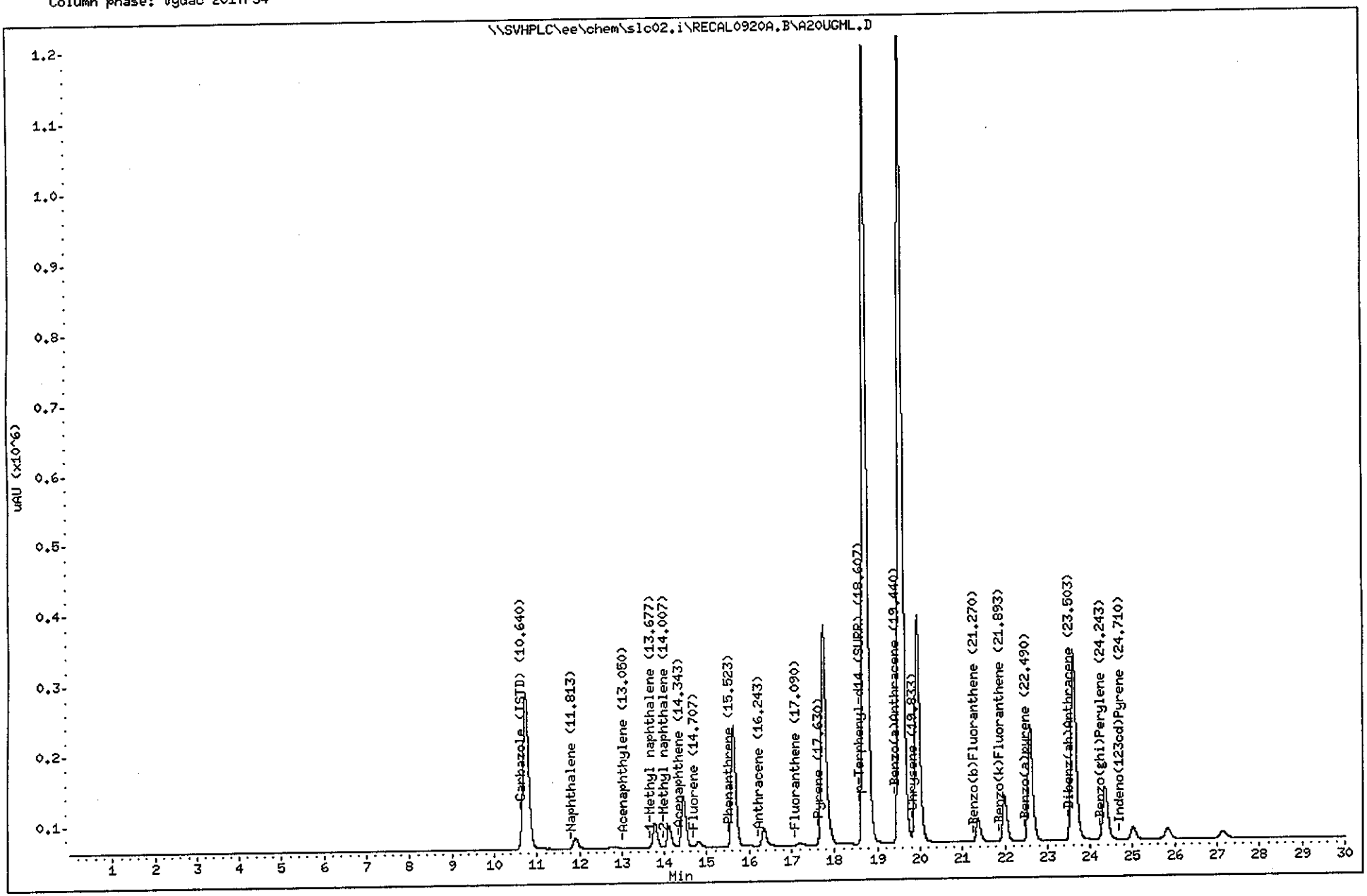
QC Flag Legend

M - Compound response manually integrated.

Data File: \\SVHPLC\ee\chem\slc02.i\RECAL0920A.B\A20UGML.D
Date : 20-SEP-2001 16:16
Client ID: A20UGML
Sample Info: 20st2851
Purge Volume: 1000.0
Column phase: Vydac 201TP54

Instrument: slc02.i

Operator: rood
Column diameter: 4.60



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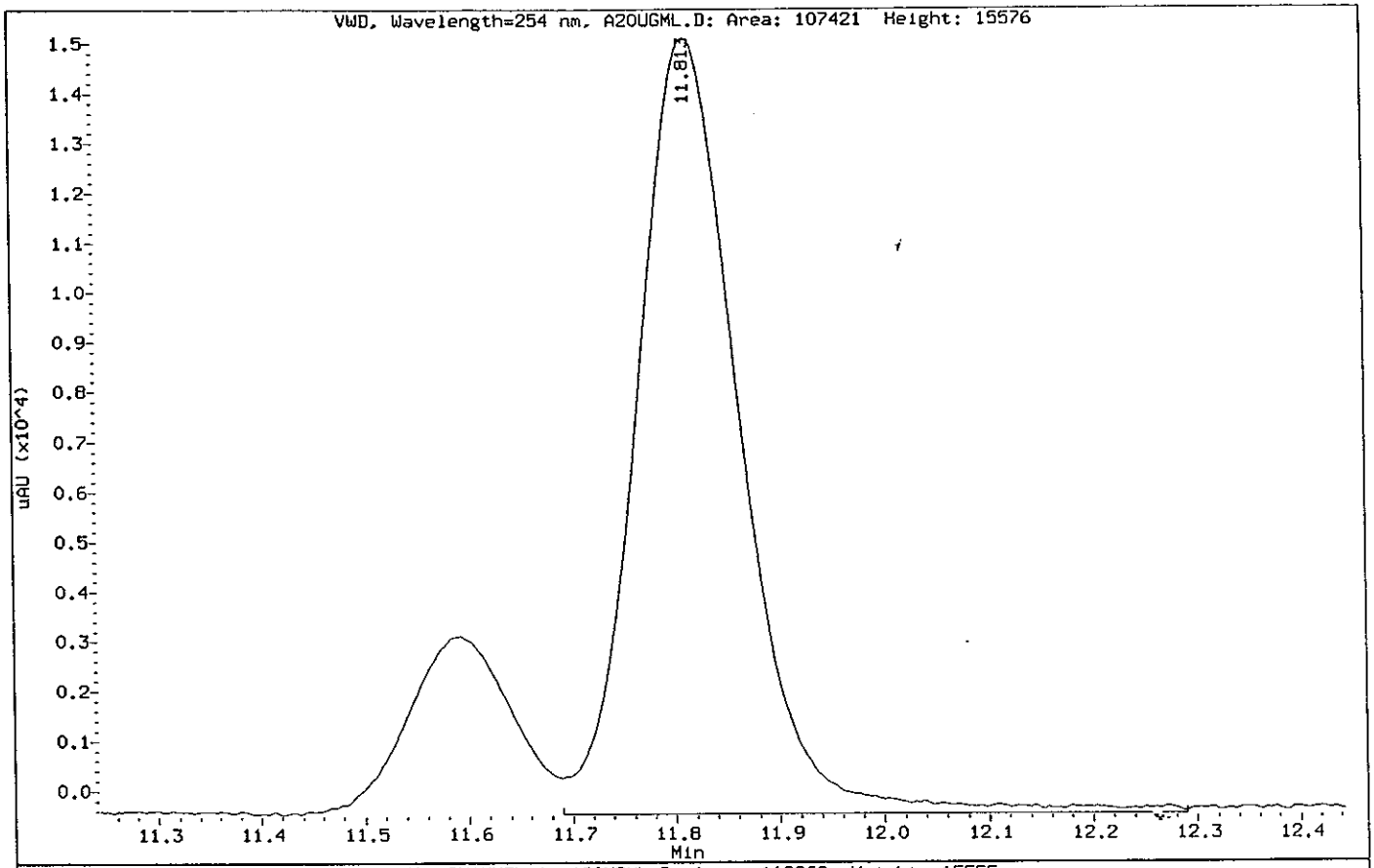
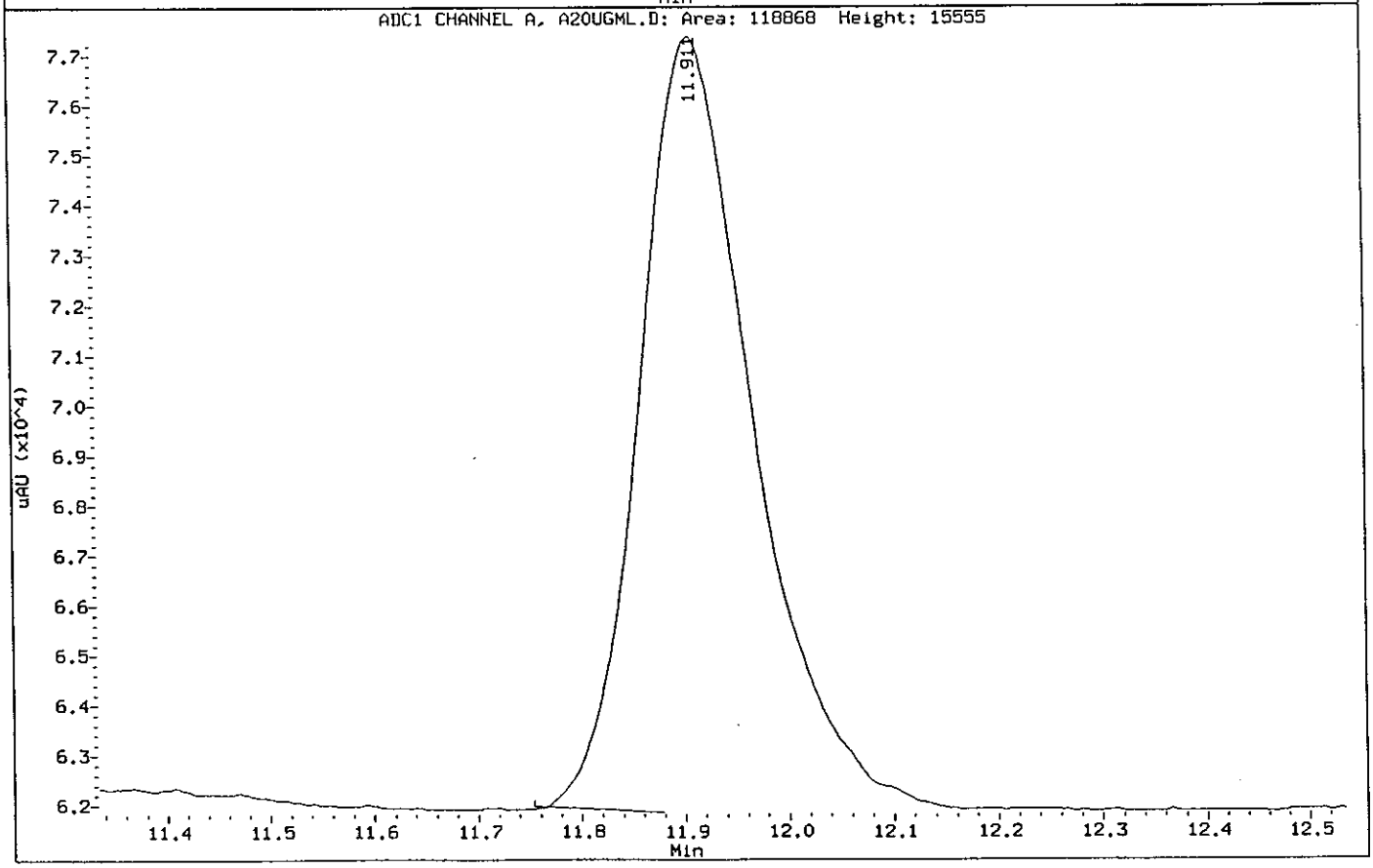
Instrument: slc02.i
Client Sample ID: A20UGML

Compound: Naphthalene
CAS Number: 91-20-3





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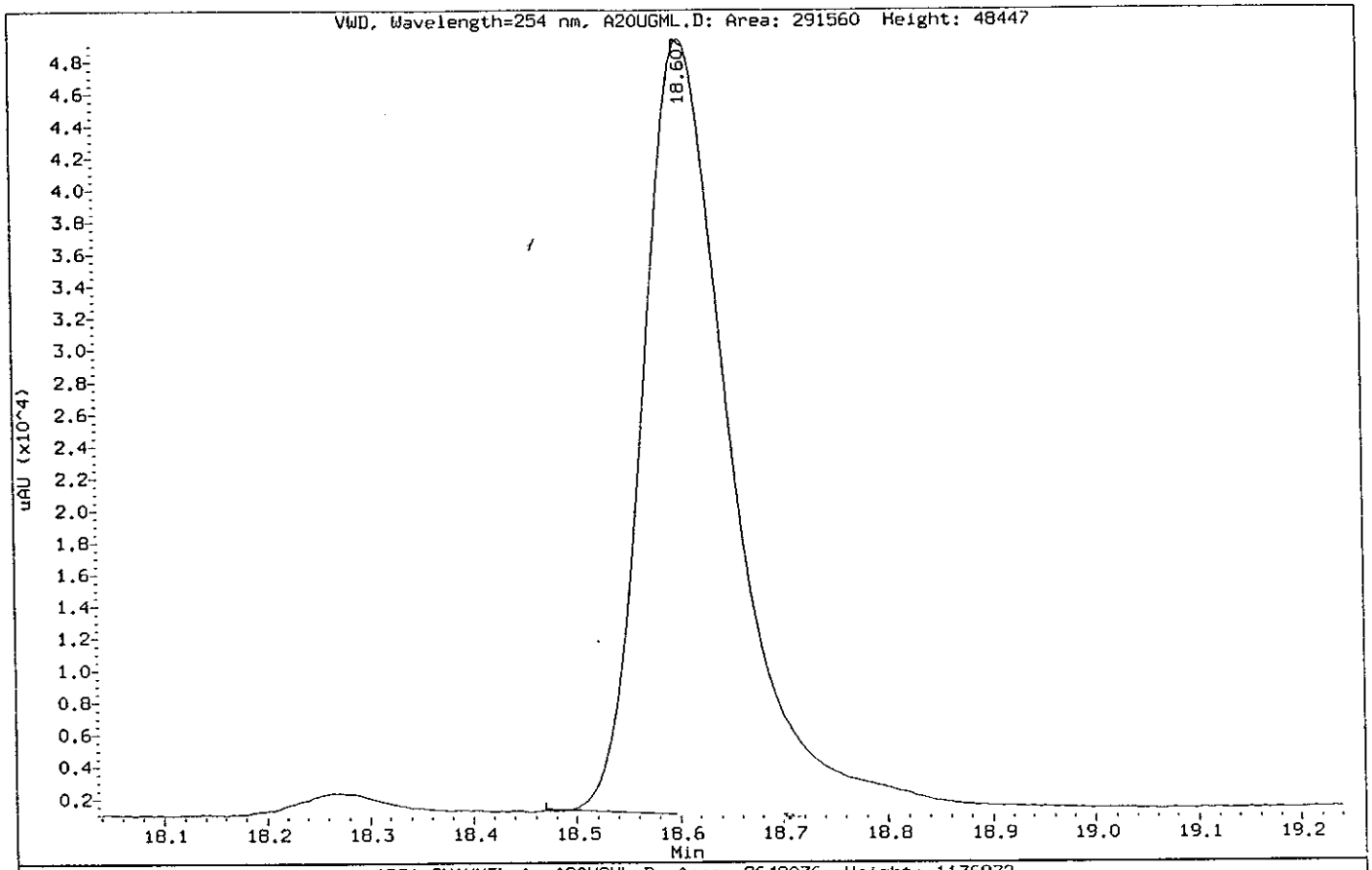
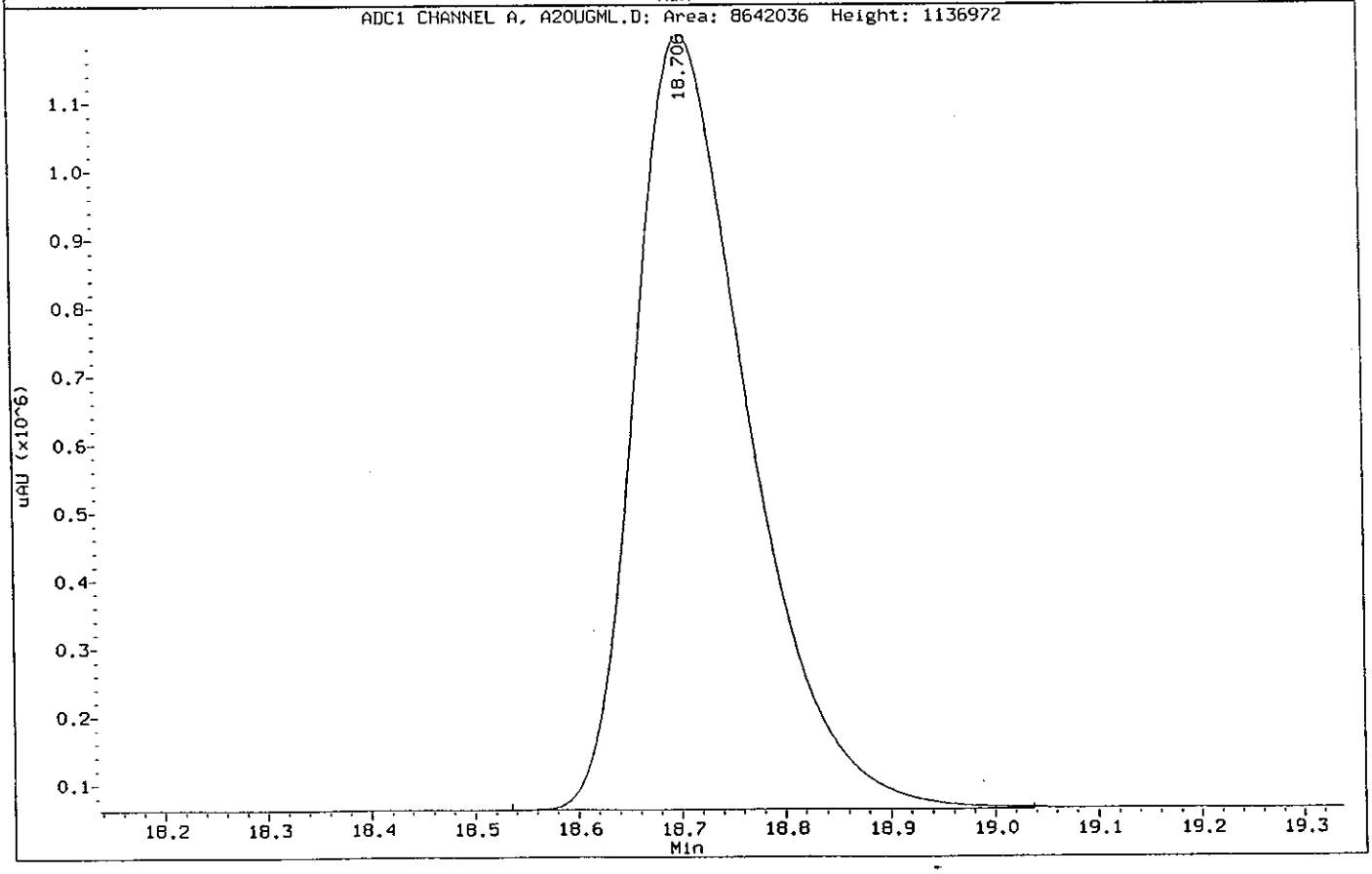
Injection Date: 20-SEP-2001 16:16
Instrument: slc02.i
Client Sample ID: A20UGML

Compound: p-Terphenyl-d14 (SURR)
CAS Number: 1718-51-0





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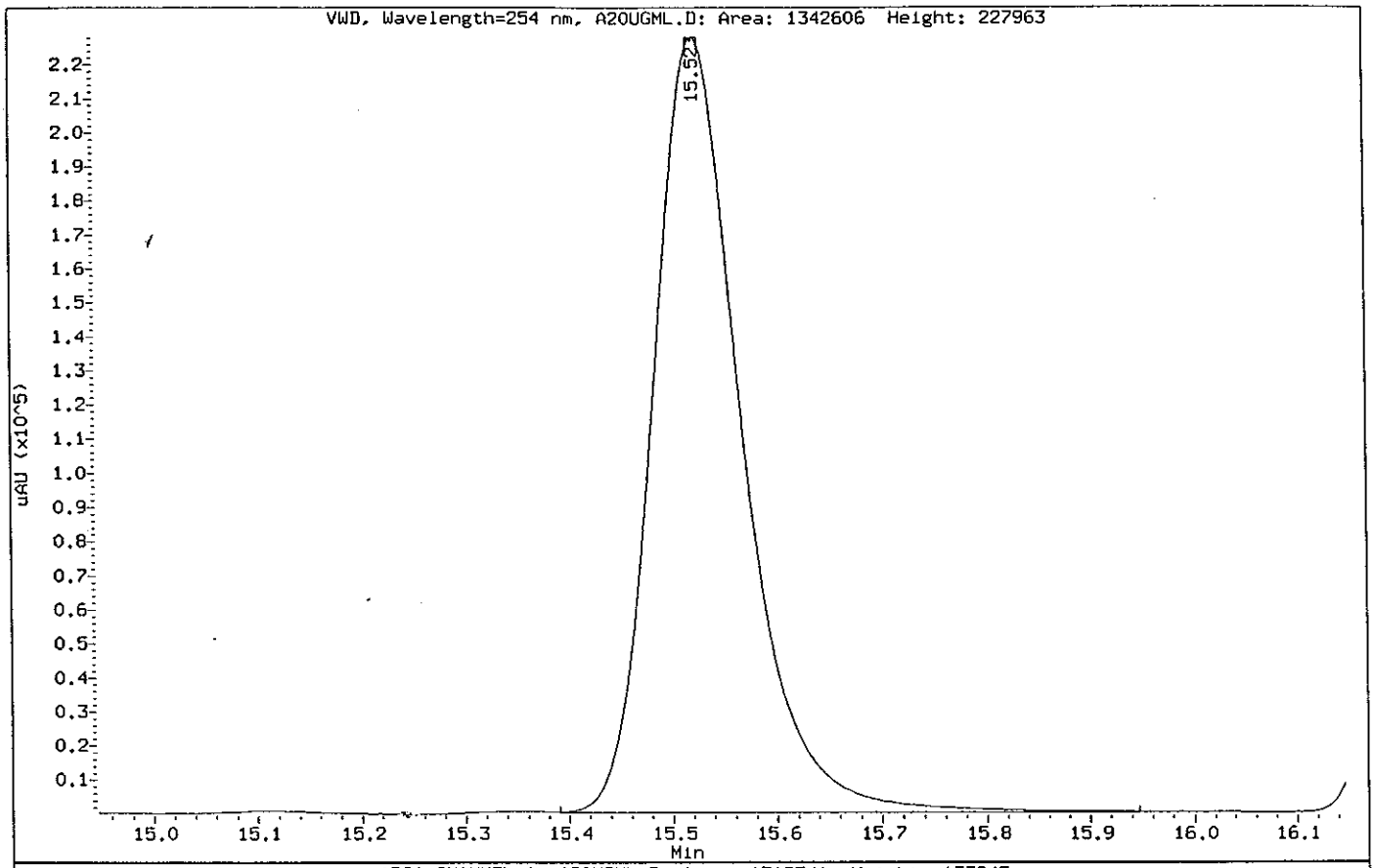
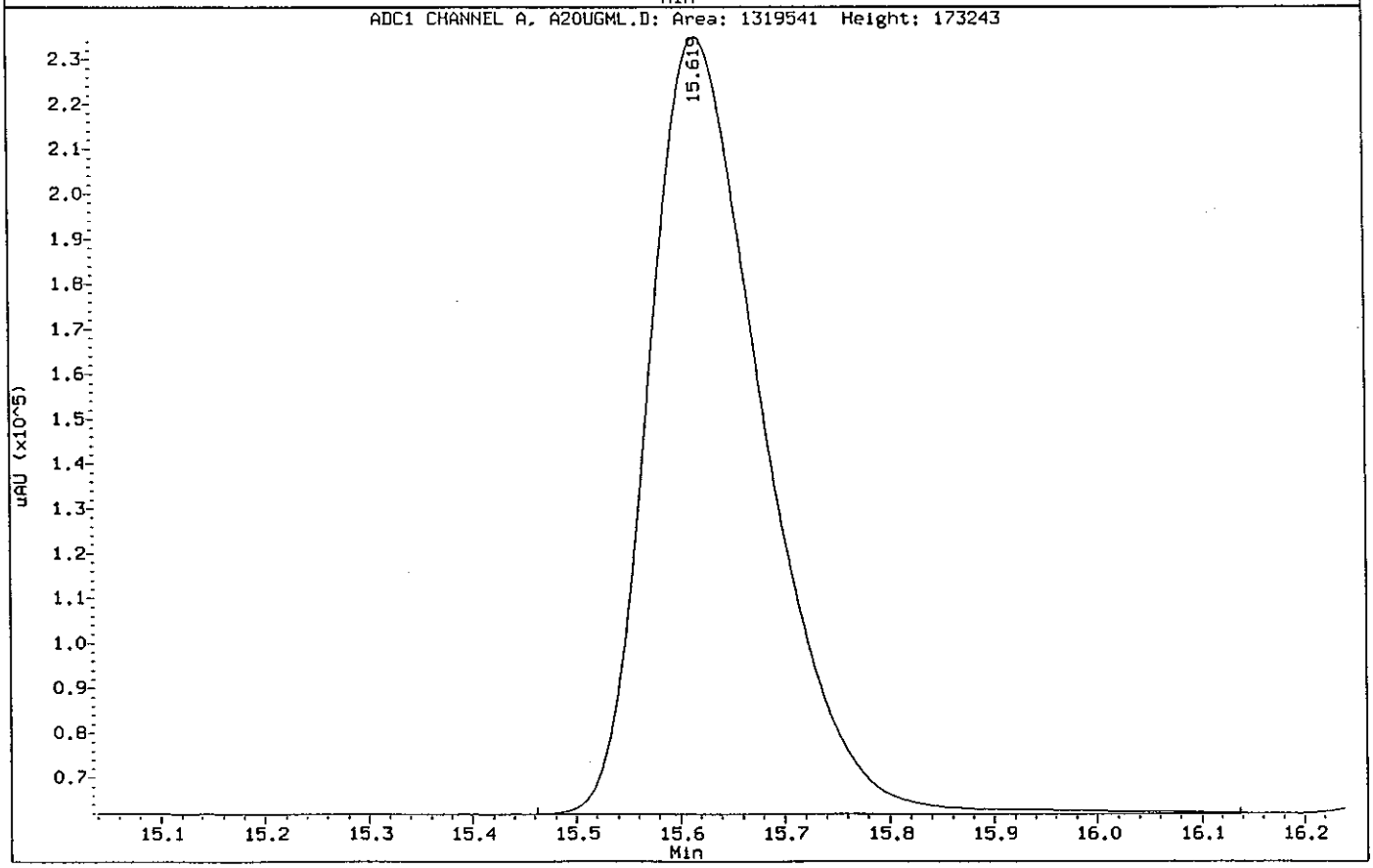
Instrument: slc02.i
Client Sample ID: A20UGML

Compound: Phenanthrene
CAS Number: 85-01-8





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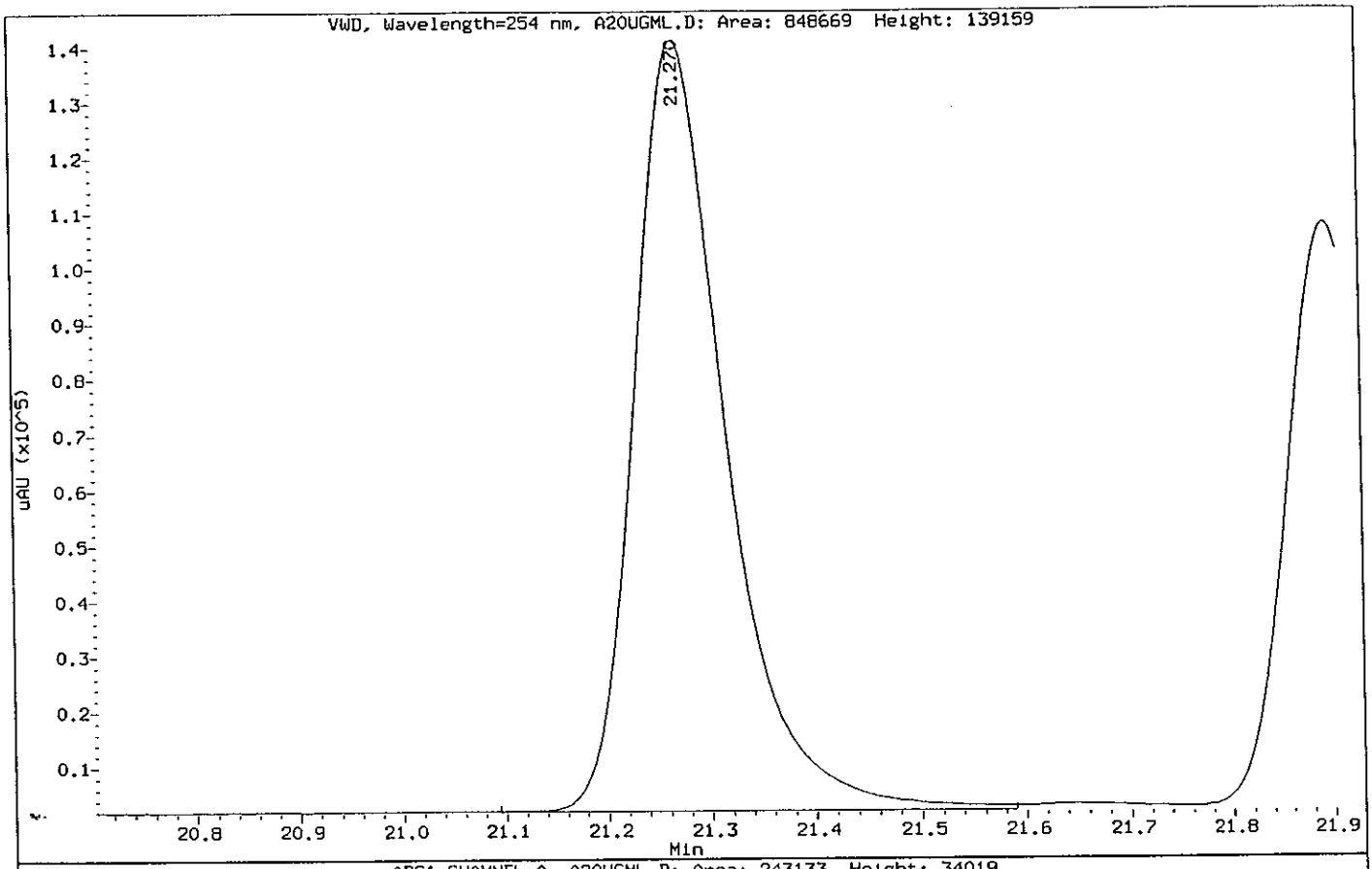
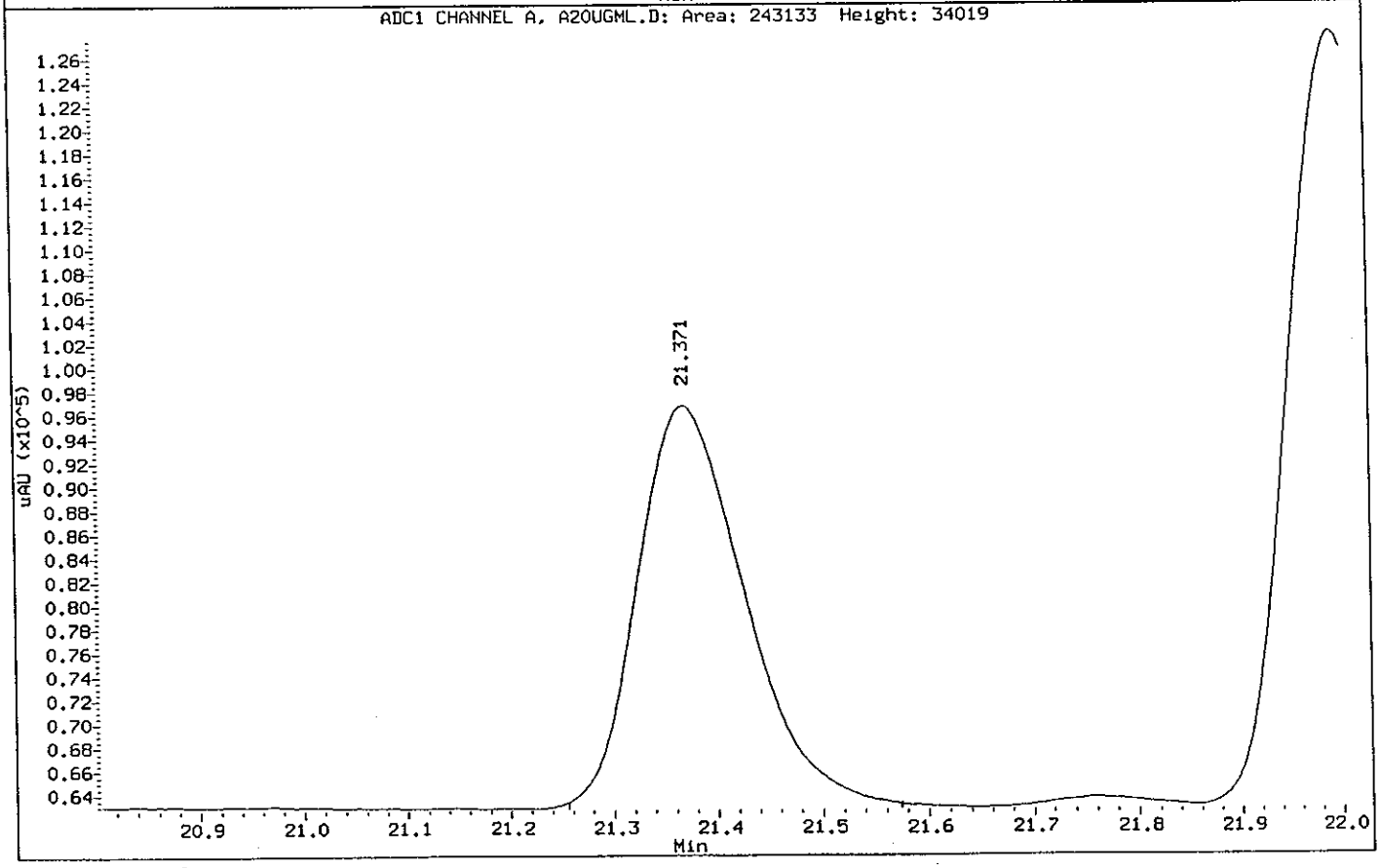
Instrument: slc02.1
Client Sample ID: A20UGML

Compound: Benzo(b)Fluoranthene
CAS Number: 205-99-2





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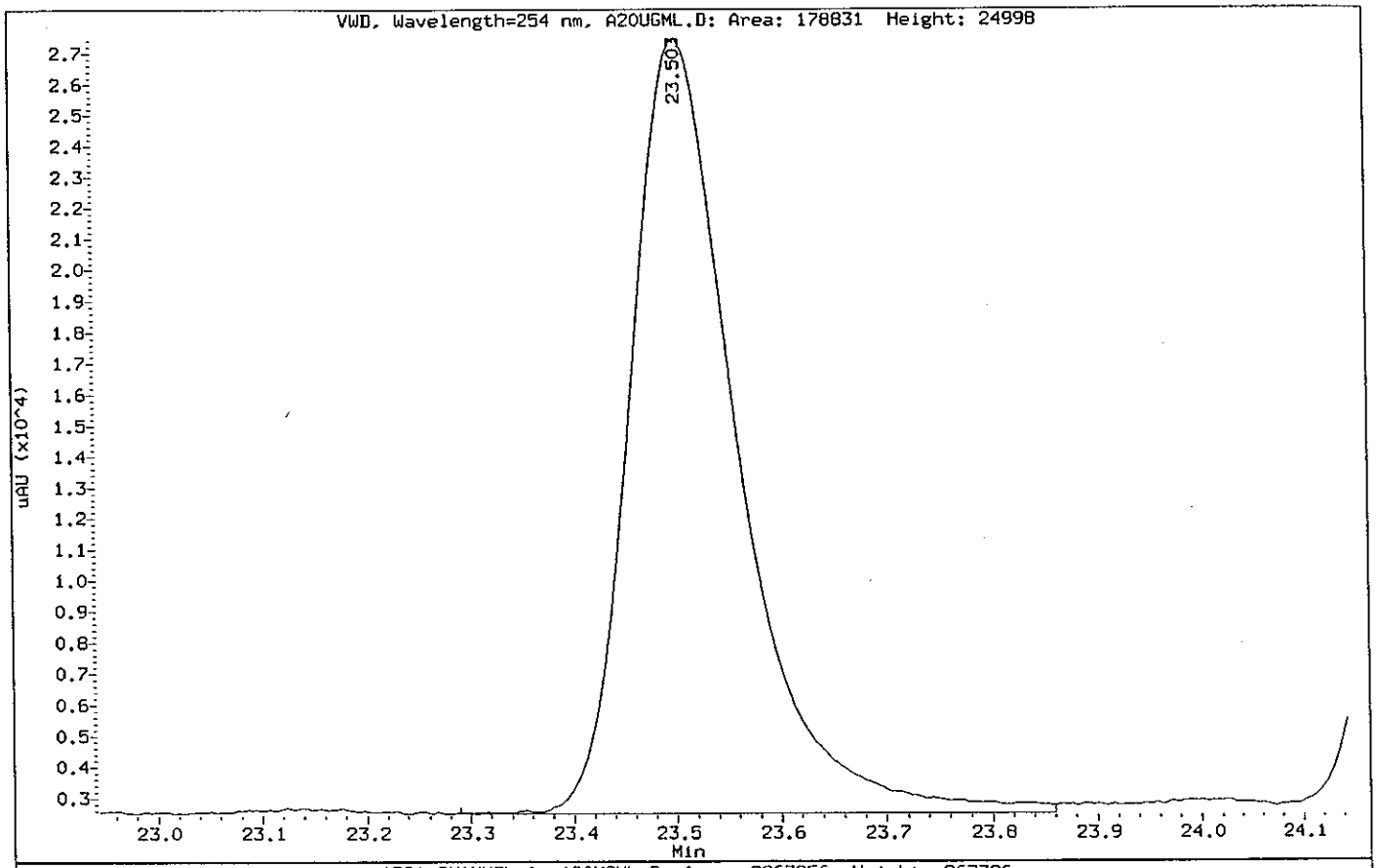
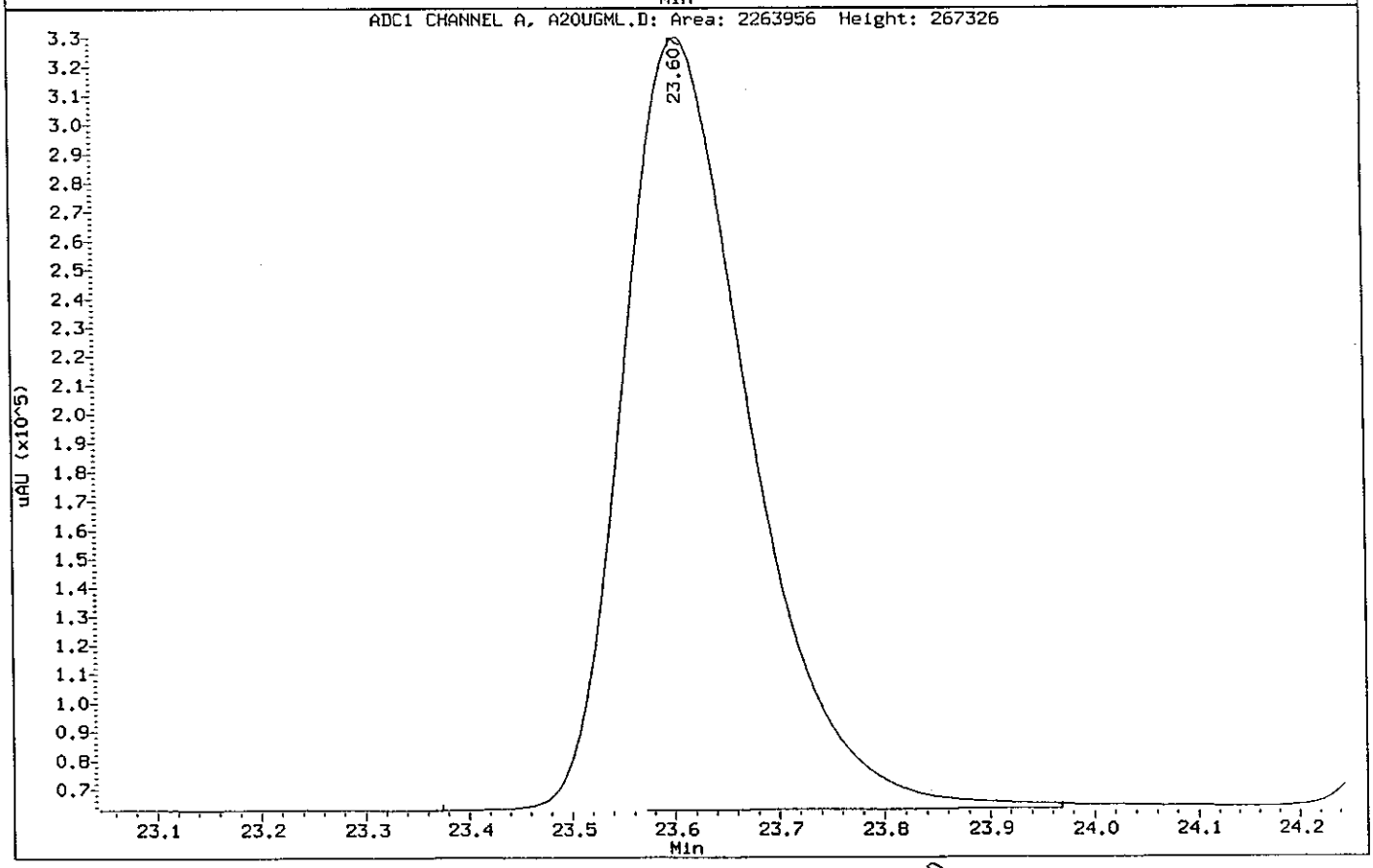
Injection Date: 20-SEP-2001 16:16
Instrument: slc02.i
Client Sample ID: A20UGML

Compound: Dibenz(ah)Anthracene
CAS Number: 53-70-3





PEL Laboratories

Data file : \\SVHPLC\ee\chem\slc02.i\RECAL0920A.B\A15UGML.D
Lab Smp Id: 15st2852 Client Smp ID: A15UGML
Inj Date : 20-SEP-2001 18:14
Operator : rood Inst ID: slc02.i
Smp Info : 15st2852
Misc Info : CORRECTED IS TO 9.0UL PER 1800
Comment :
Method : \\SVHPLC\ee\chem\slc02.i\RECAL0920A.B\8310A.m
Meth Date : 01-Nov-2001 10:22 rrood Quant Type: ISTD
Cal Date : 20-SEP-2001 13:58 Cal File: A30UGML.D
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.04 Sample Matrix: WATER
Processing Host: SVHPLC

Concentration Formula: Amt * DF * 1/(Vo/1000)*Vt

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume Extracted
Vt	1.000	

						AMOUNTS CAL-AMT	AMOUNTS ON-COL		
	RT	EXP RT	REL RT	SIGNAL	RESPONSE	(ug/ml)	(ug/ml)	TARGET RANGE	RATIO
*	1 Carbazole (ISTD)							CAS #: 86-74-8	
	10.676	10.676	(1.000)	VWD1A	233058			80.00- 120.00	100.00(M)
	10.764	10.764	(1.008)	ADC1A	2102786	10.0000		707.26-1060.89	902.26
	2 Naphthalene							CAS #: 91-20-3	
	11.843	11.843	(1.109)	VWD1A	82652	15.0000	15.4	80.00- 120.00	100.00
	11.934	11.934	(1.118)	ADC1A	90273	15.0000	15.5	77.24- 115.86	109.22
	3 Acenaphthylene							CAS #: 208-96-8	
	13.076	13.076	(1.225)	VWD1A	61677	15.0000	15.4		
	4 1-Methyl naphthalene							CAS #: 90-12-0	
	13.703	13.703	(1.283)	VWD1A	49595	15.0000	15.5	80.00- 120.00	100.00
	13.798	13.798	(1.292)	ADC1A	194333	15.0000	15.2	315.83- 473.75	391.84

RT	EXP RT	REL RT	SIGNAL	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
5 2-Methyl naphthalene						CAS #: 91-57-6		
14.036	14.036	(1.315)	VWD1A	69681	15.0000	15.3	80.00- 120.00	100.00
14.131	14.131	(1.324)	ADC1A	167926	15.0000	15.2	160.98- 241.47	240.99
6 Acenaphthene						CAS #: 83-32-9		
14.376	14.376	(1.347)	VWD1A	32648	15.0000	14.8	80.00- 120.00	100.00
14.466	14.466	(1.355)	ADC1A	407586	15.0000	15.2	841.01-1261.52	1248.43
7 Fluorene						CAS #: 86-73-7		
14.736	14.736	(1.380)	VWD1A	374875	15.0000	15.2	80.00- 120.00	100.00(M)
14.826	14.826	(1.389)	ADC1A	50316	15.0000	16.4	9.84- 14.77	13.42
8 Phenanthrene						CAS #: 85-01-8		
15.546	15.546	(1.456)	VWD1A	1037719	15.0000	15.1	80.00- 120.00	100.00(M)
15.639	15.639	(1.465)	ADC1A	1026806	15.0000	15.6	72.60- 108.90	98.95
9 Anthracene						CAS #: 120-12-7		
16.270	16.270	(1.524)	VWD1A	2260769			80.00- 120.00	100.00
16.361	16.361	(1.532)	ADC1A	139747	15.0000	14.8	4.32- 6.48	6.18
10 Fluoranthene						CAS #: 206-44-0		
17.116	17.116	(1.603)	VWD1A	246914	15.0000	15.0	80.00- 120.00	100.00
17.216	17.216	(1.613)	ADC1A	21931	15.0000	16.8	6.09- 9.13	8.88
11 Pyrene						CAS #: 129-00-0		
17.663	17.663	(1.654)	VWD1A	188567	15.0000	14.9	80.00- 120.00	100.00(M)
17.761	17.761	(1.664)	ADC1A	2160085	15.0000	16.6	851.54-1277.31	1145.53
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.640	18.640	(1.746)	VWD1A	224217	15.0000	15.8	80.00- 120.00	100.00
18.736	18.736	(1.755)	ADC1A	6663257	15.0000	15.6	2363.40-3545.10	2971.79
13 Benzo(a)Anthracene						CAS #: 56-55-3		
19.480	19.480	(1.825)	VWD1A	591814	15.0000	15.2	80.00- 120.00	100.00
19.576	19.576	(1.834)	ADC1A	7039372	15.0000	15.7	915.32-1372.98	1189.46
14 Chrysene						CAS #: 218-01-9		
19.870	19.870	(1.861)	VWD1A	833980	15.0000	15.3	80.00- 120.00	100.00(M)
19.968	19.968	(1.870)	ADC1A	1982999	15.0000	15.4	177.93- 266.90	237.78
15 Benzo(b)Fluoranthene						CAS #: 205-99-2		
21.306	21.306	(1.996)	VWD1A	651901	15.0000	15.5	80.00- 120.00	100.00
21.404	21.404	(2.005)	ADC1A	185254	15.0000	15.6	18.09- 27.13	28.42
16 Benzo(k)Fluoranthene						CAS #: 207-08-9		
21.936	21.936	(2.055)	VWD1A	501555	15.0000	15.5	80.00- 120.00	100.00

RT	EXP RT	REL RT	SIGNAL	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
16 Benzo(k)Fluoranthene (continued)								
22.034	22.034	(2.064)	ADC1A	358803	15.0000	15.6	54.68- 82.01	71.54
17 Benzo(a)pyrene						CAS #: 50-32-8		
22.533	22.533	(2.111)	VWD1A	581741	15.0000	15.6	80.00- 120.00	100.00
22.634	22.634	(2.120)	ADC1A	1032090	15.0000	15.6	134.63- 201.95	177.41
18 Dibenz(ah)Anthracene						CAS #: 53-70-3		
23.543	23.543	(2.205)	VWD1A	137829	15.0000	15.0	80.00- 120.00	100.00
23.643	23.643	(2.214)	ADC1A	1747533	15.0000	16.0	886.06-1329.09	1267.90
19 Benzo(ghi)Perylene						CAS #: 191-24-2		
24.286	24.286	(2.275)	VWD1A	228012			80.00- 120.00	100.00
24.388	24.388	(2.284)	ADC1A	497914	15.0000	15.6	154.26- 231.38	218.37
20 Indeno(123cd)Pyrene						CAS #: 193-39-5		
24.756	24.756	(2.319)	VWD1A	595890	15.0000	15.4		

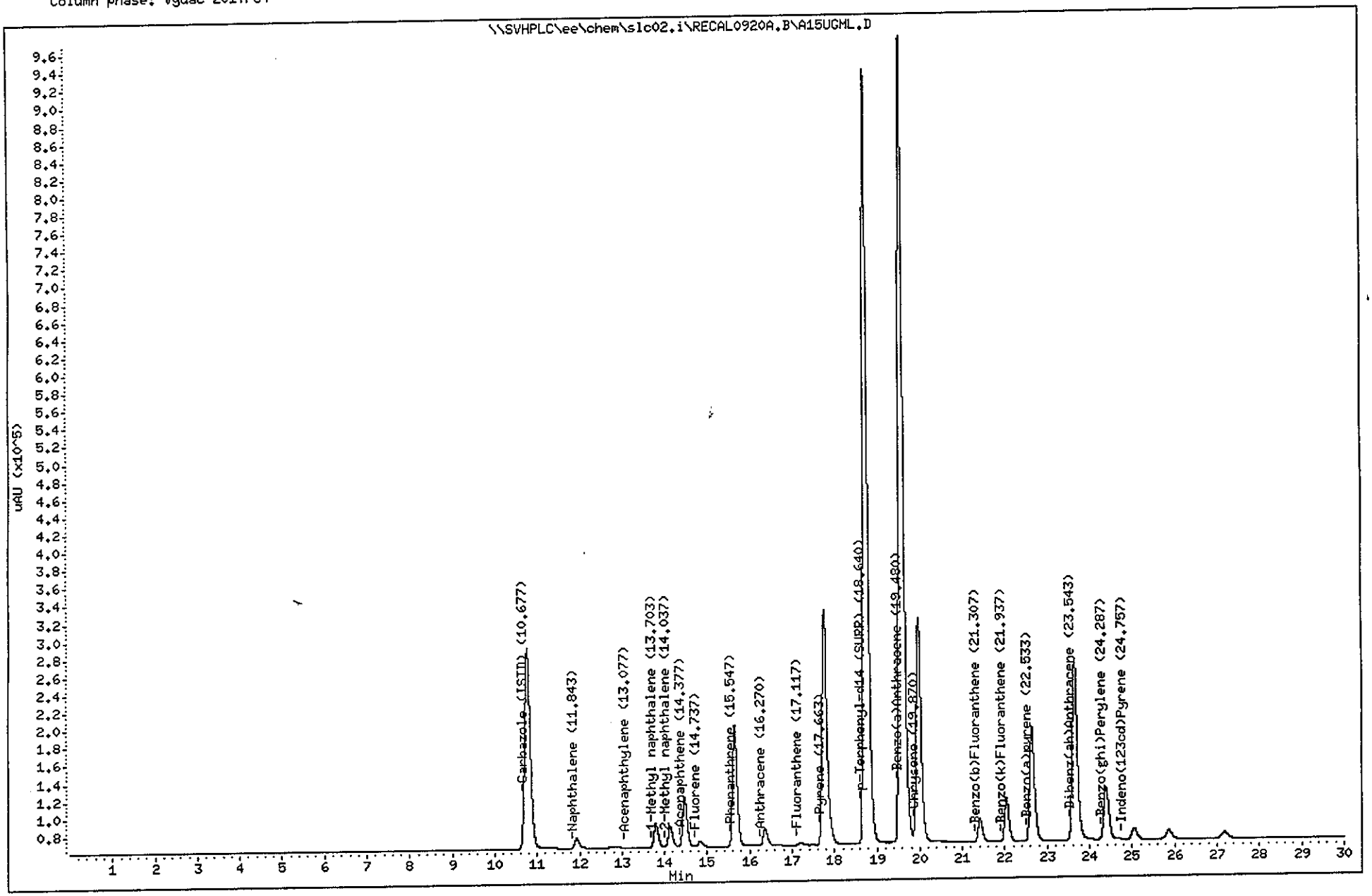
QC Flag Legend

M - Compound response manually integrated.

Data File: \\SVHPLC\ee\chem\slc02.i\RECAL0920A.B\A15UGML.D
Date : 20-SEP-2001 18:14
Client ID: A15UGML
Sample Info: 15st2852
Purge Volume: 1000.0
Column phase: Vydac 201TP54

Instrument: slc02.i

Operator: rood
Column diameter: 4.60



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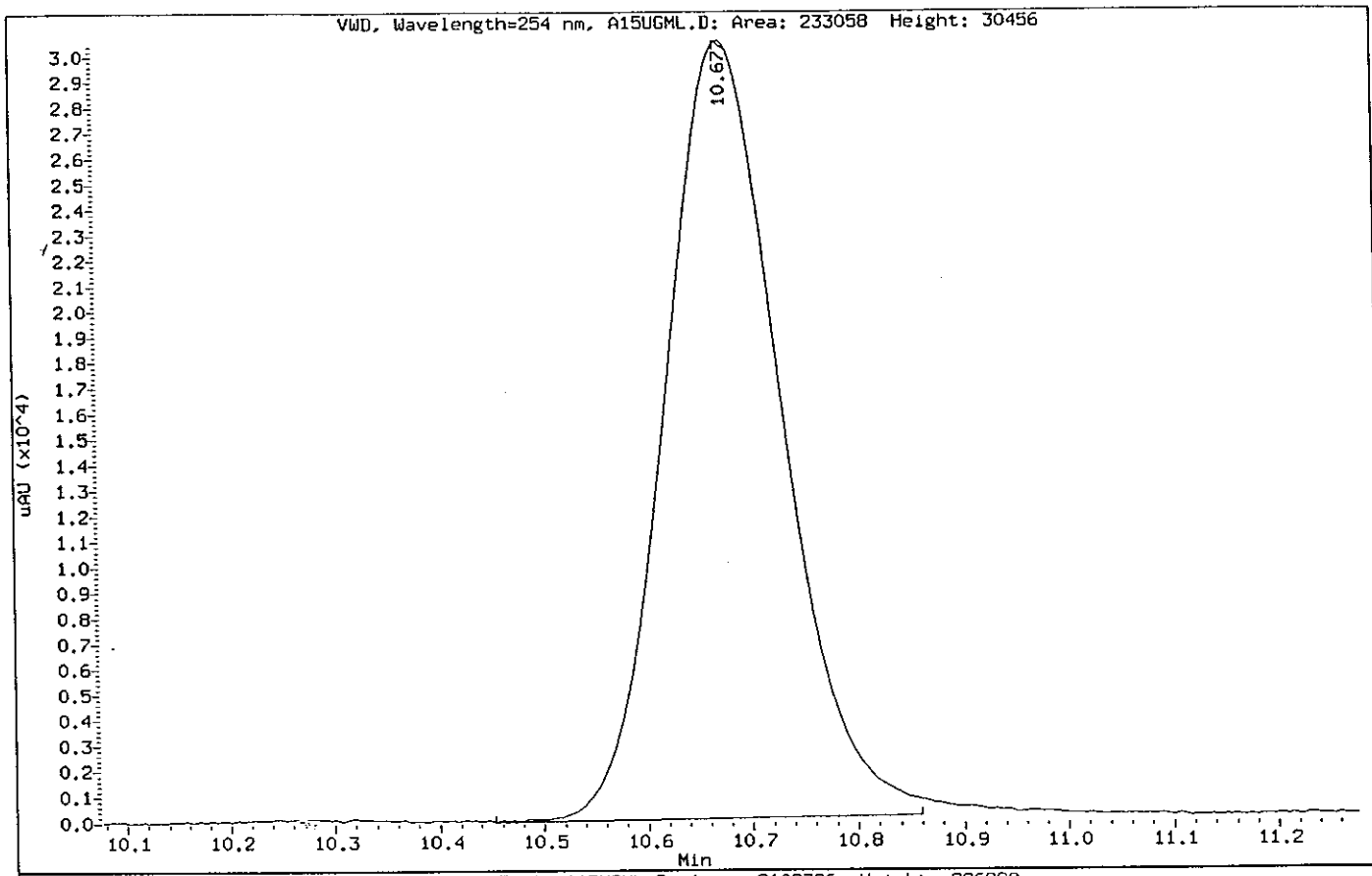
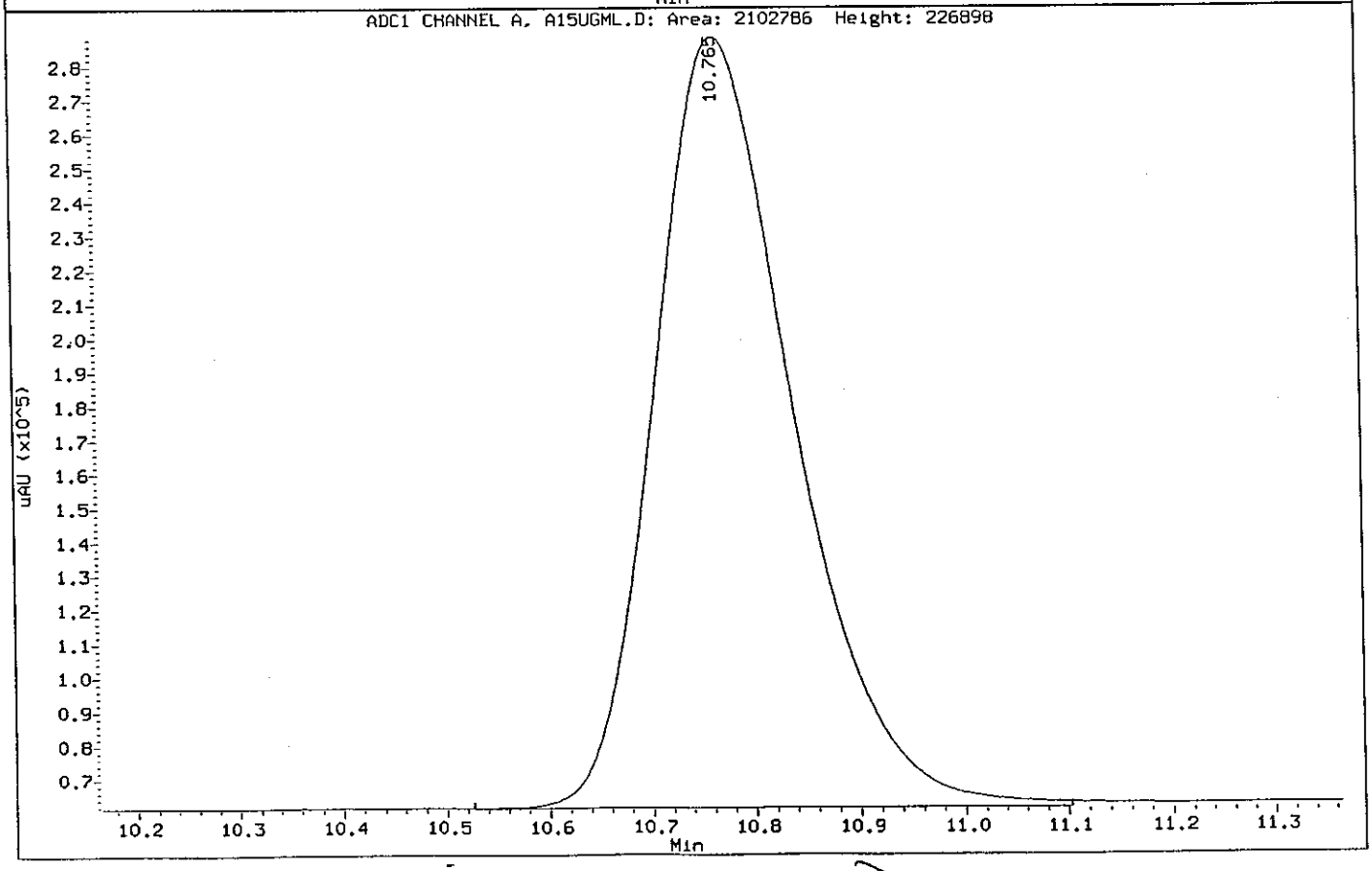
Injection Date: 20-SEP-2001 18:14
Instrument: slc02.i
Client Sample ID: A15UGML

Compound: Carbazole (ISTD)
CAS Number: 86-74-8





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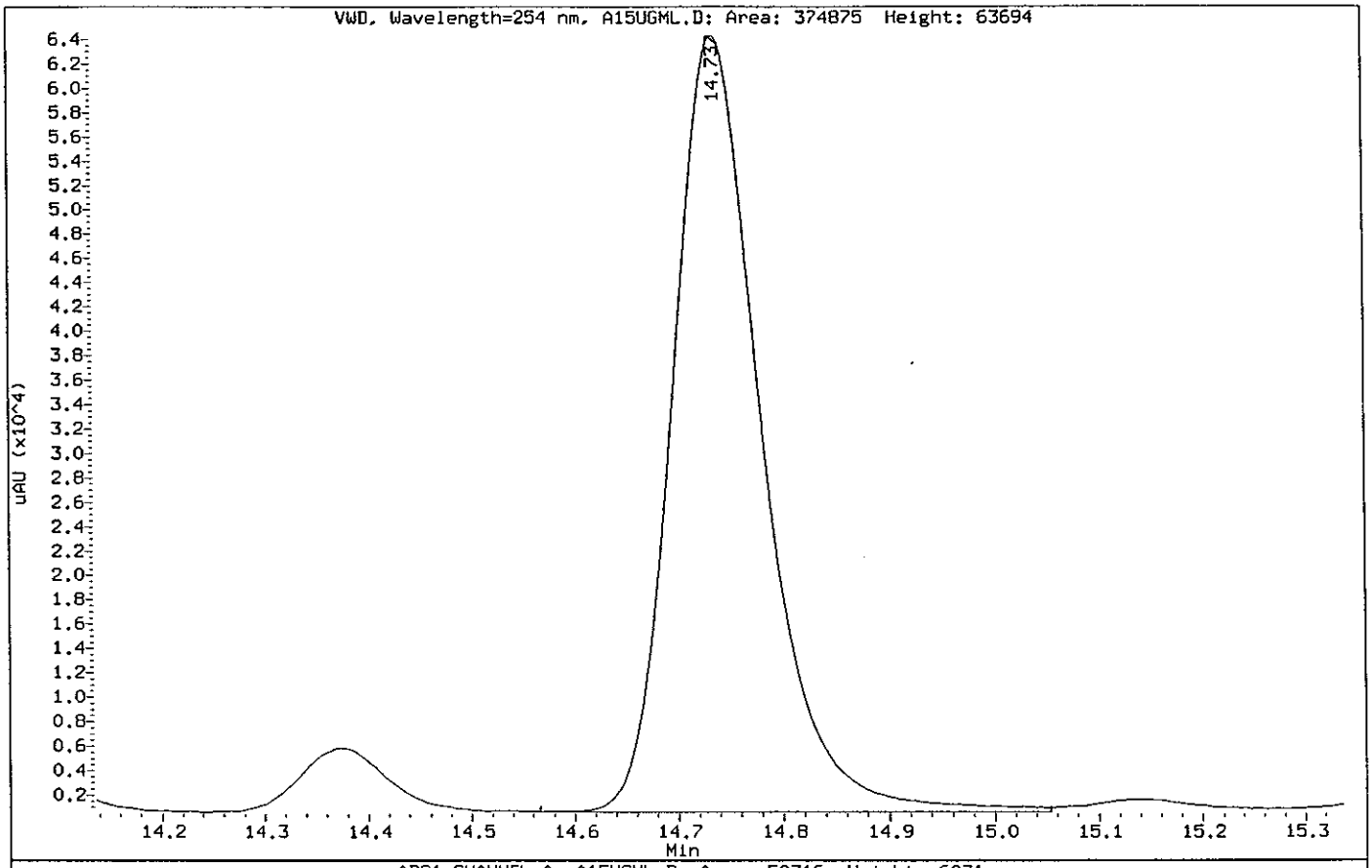
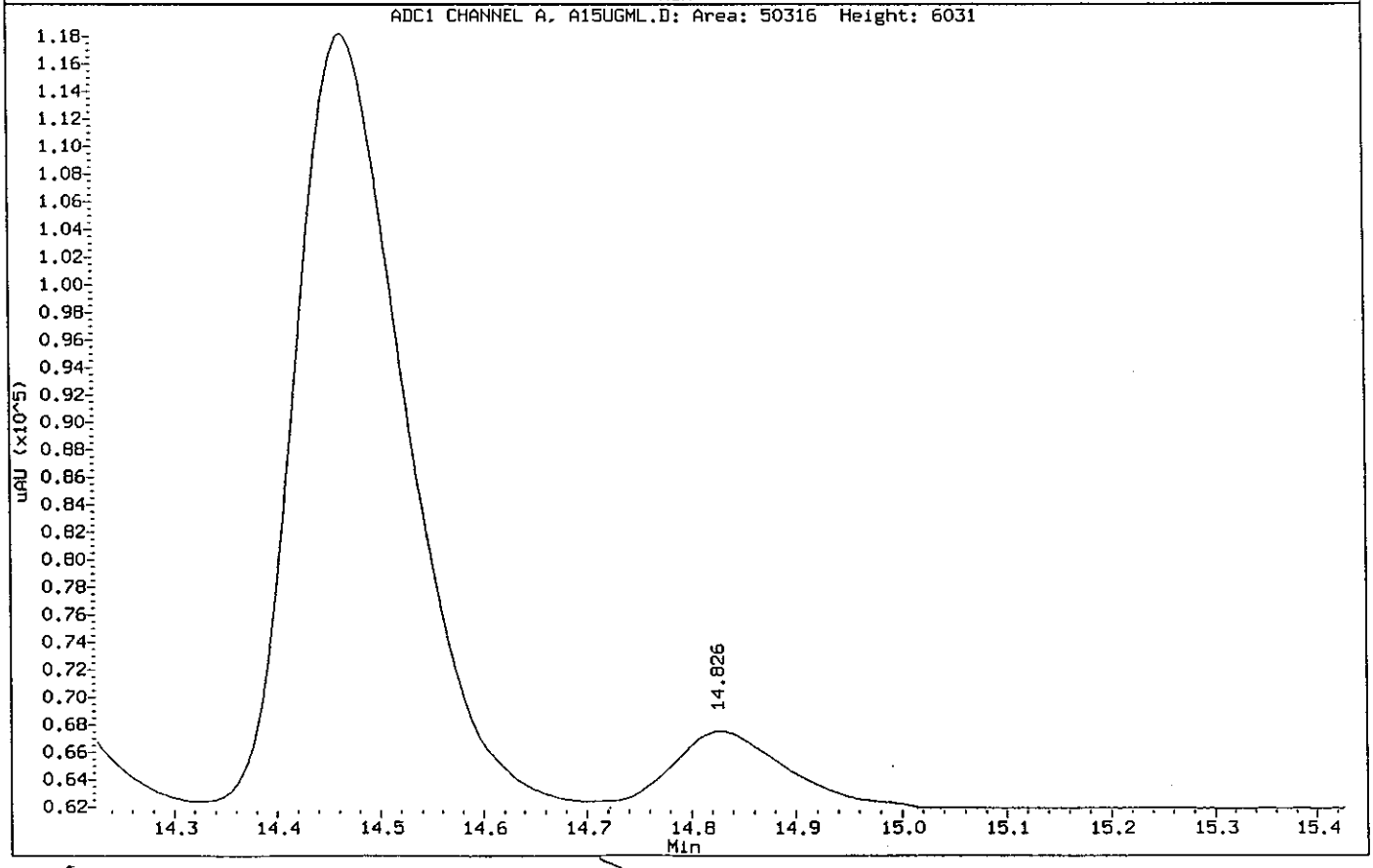
Injection Date: 20-SEP-2001 18:14
Instrument: slc02.i
Client Sample ID: A15UGML

Compound: Fluorene
CAS Number: 86-73-7





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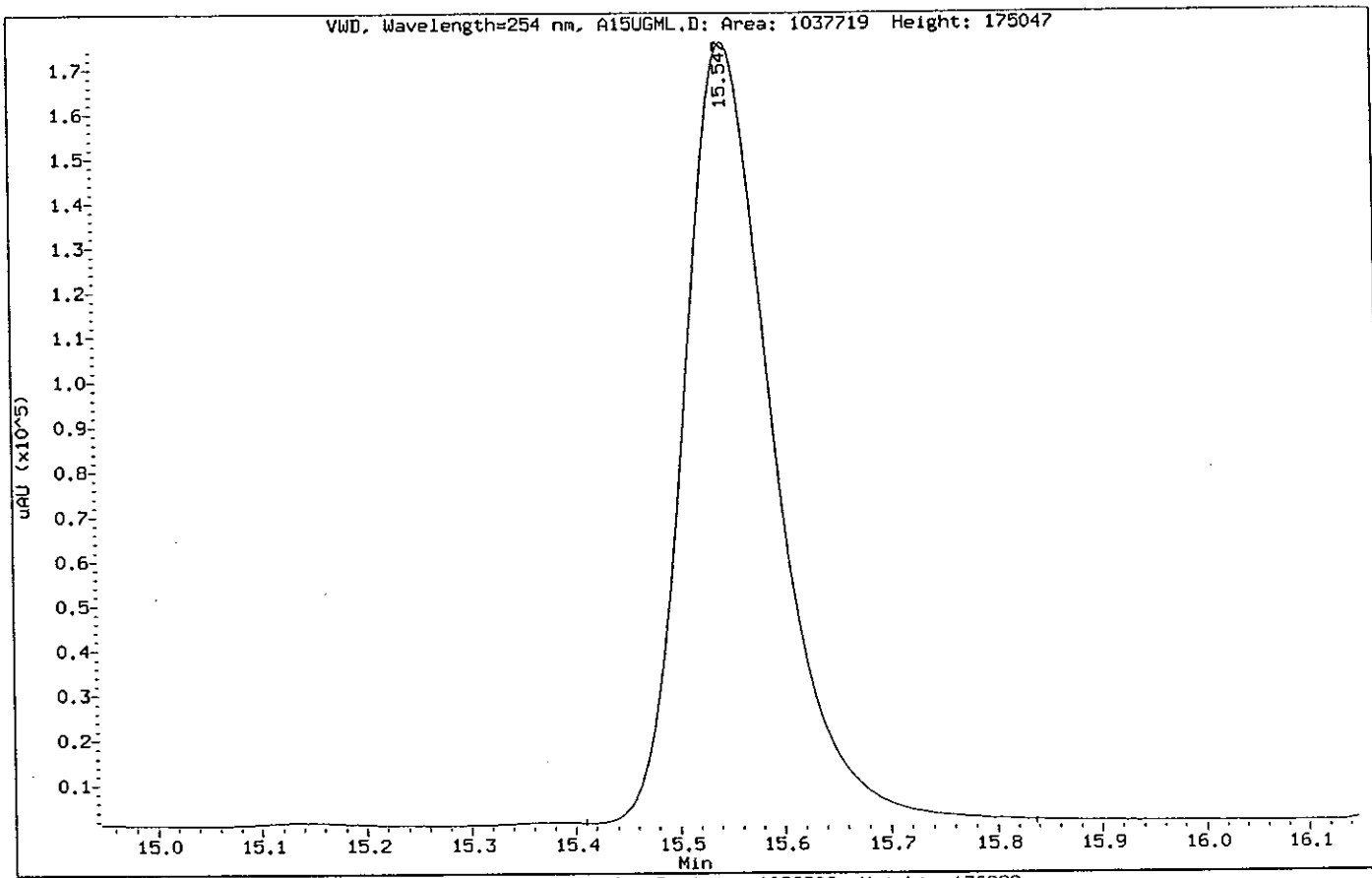
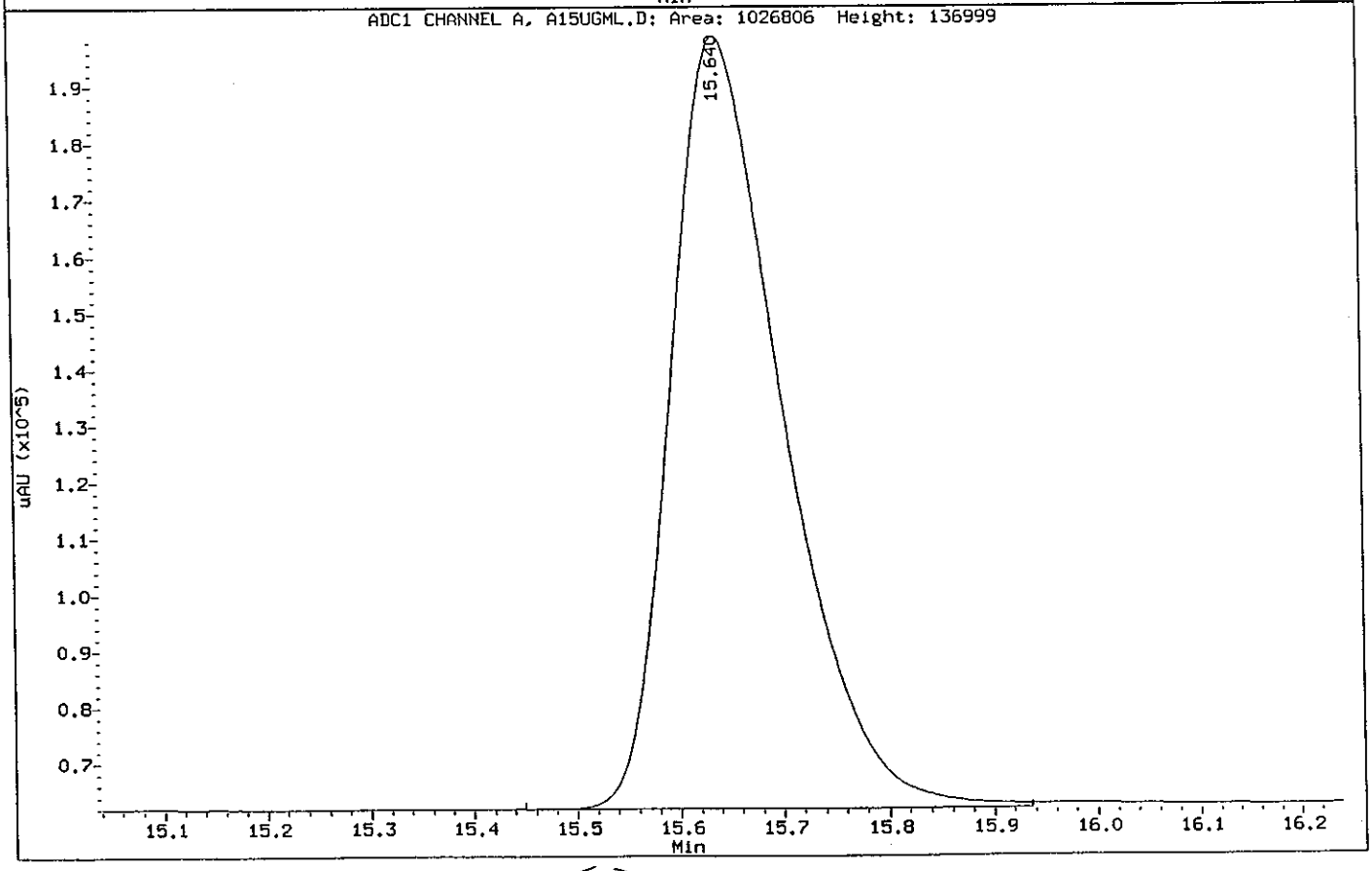
Instrument: slc02.i
Client Sample ID: A15UGML

Compound: Phenanthrene
CAS Number: 85-01-8

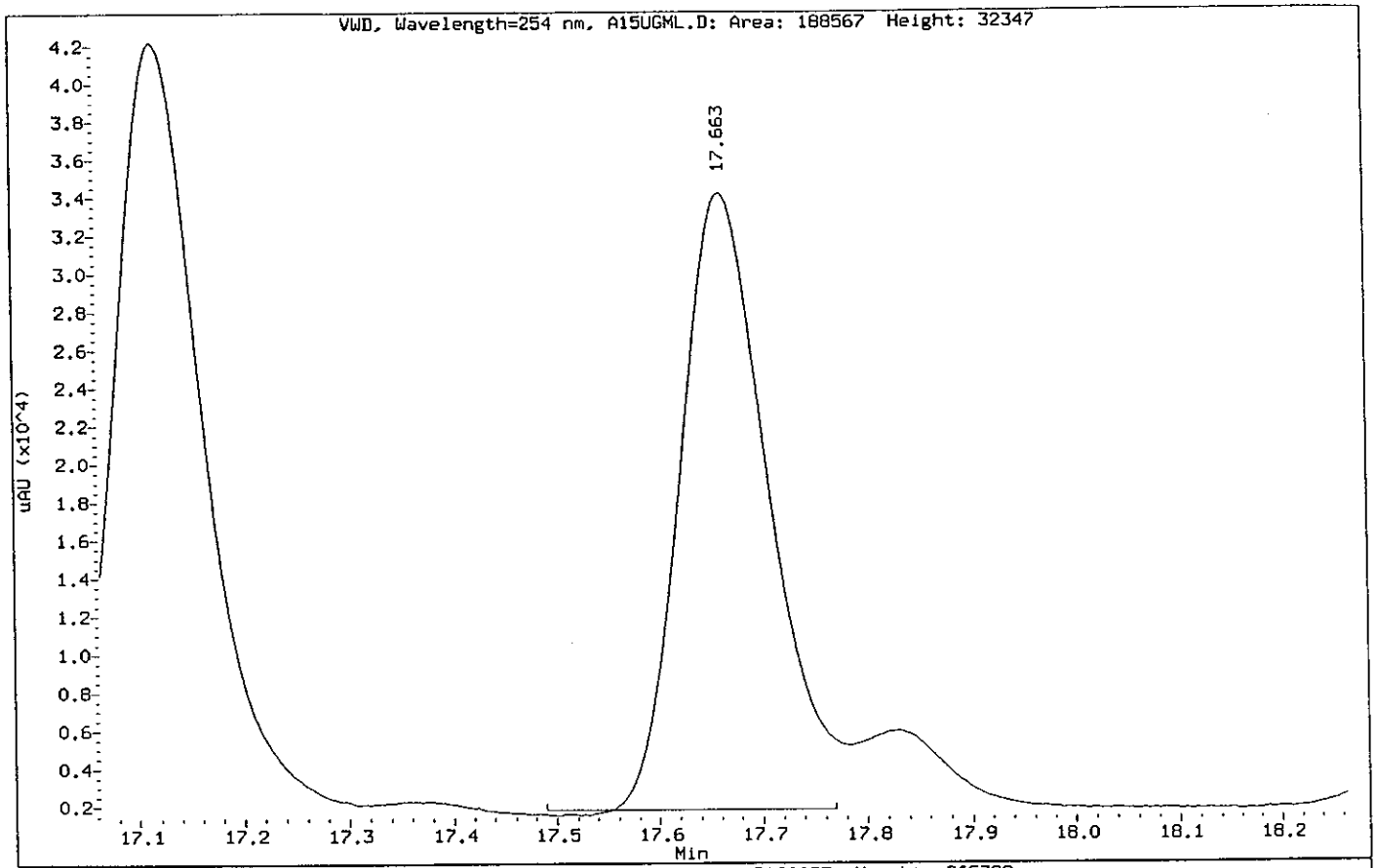


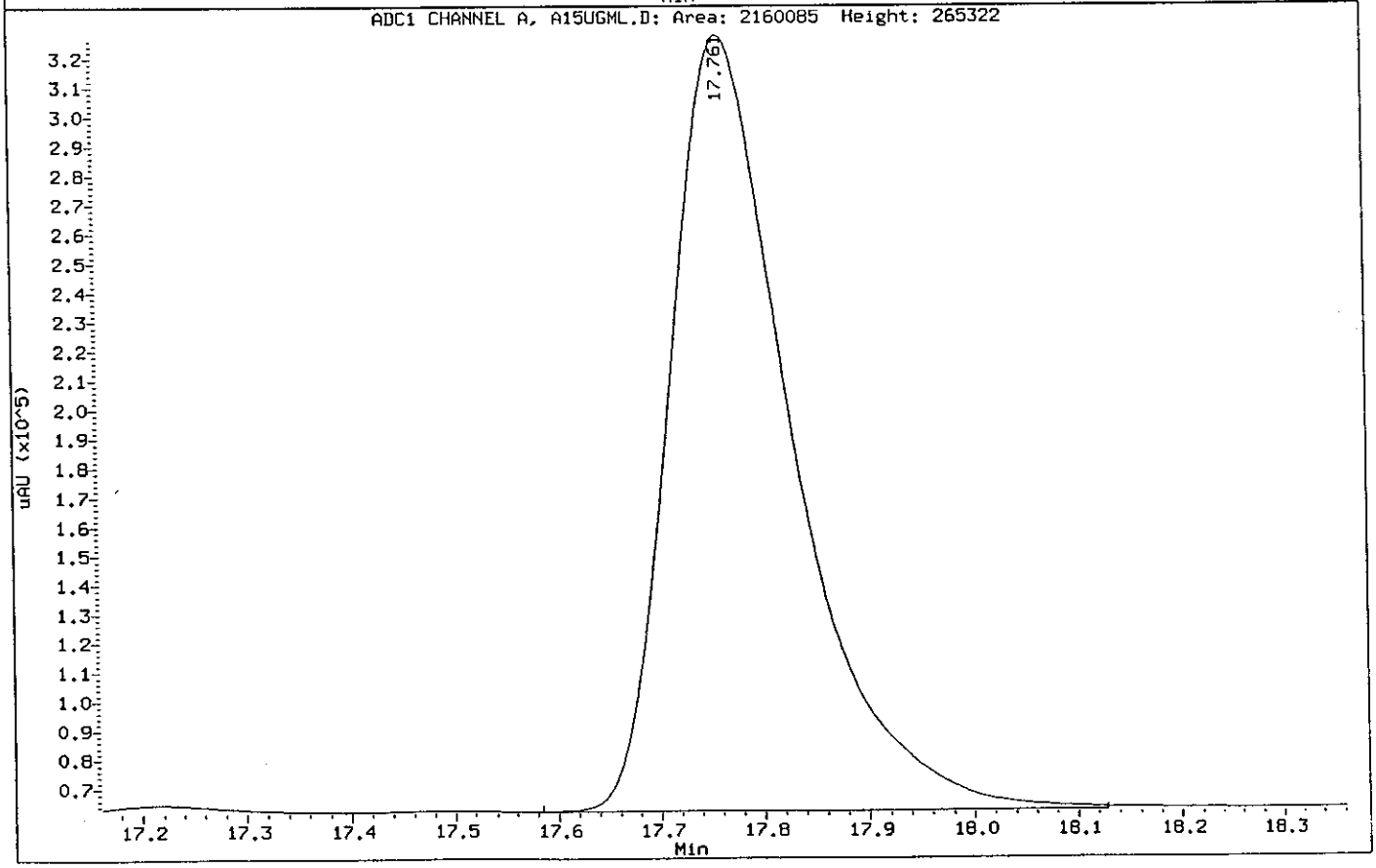


TMD

Data File: \\SVHPLC\ee\chem\slc02.i\RECAL0920A.B\A15UGML.D
Injection Date: 20-SEP-2001 18:14
Instrument: slc02.i
Client Sample ID: A15UGML

Compound: Pyrene
CAS Number: 129-00-0

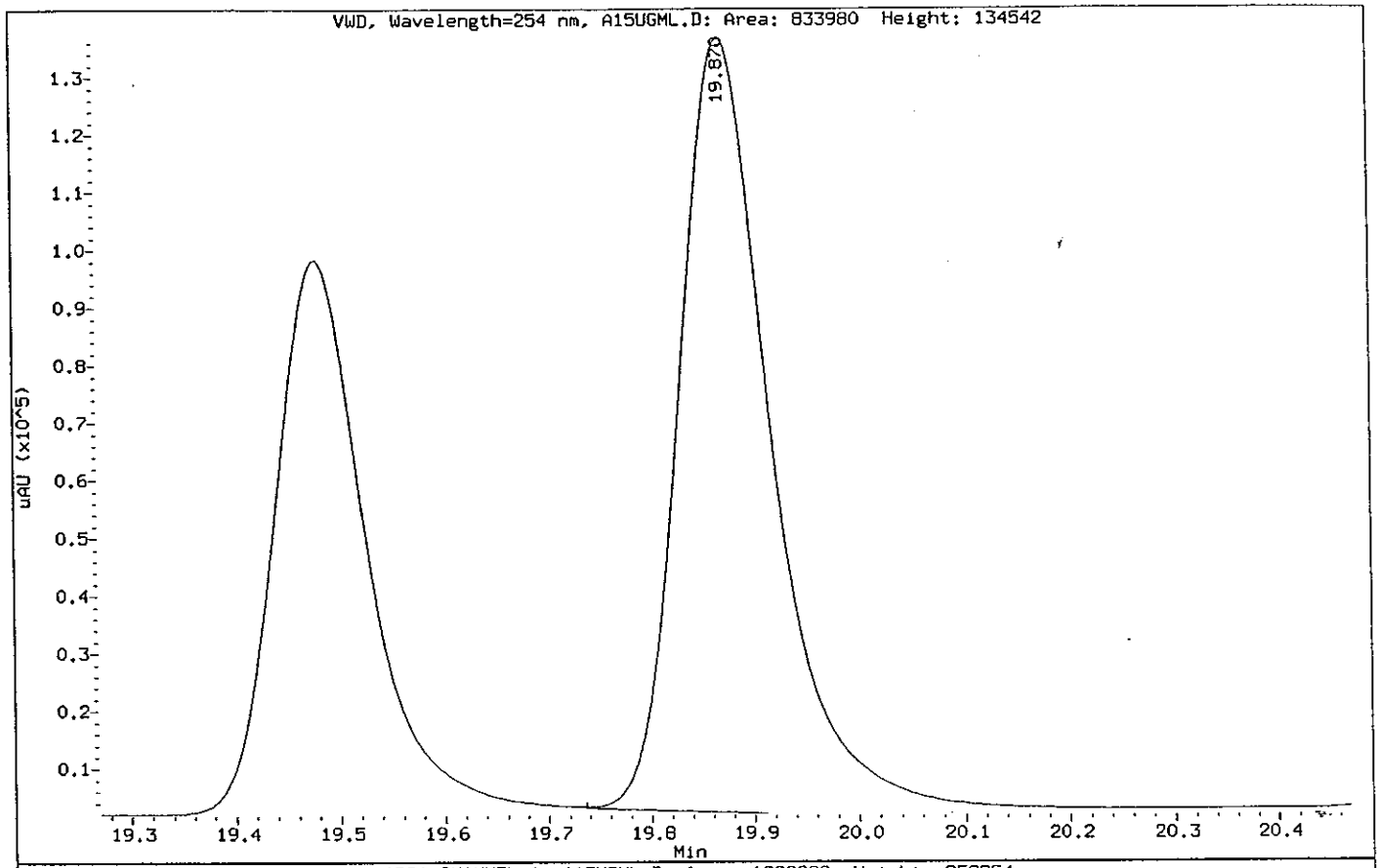


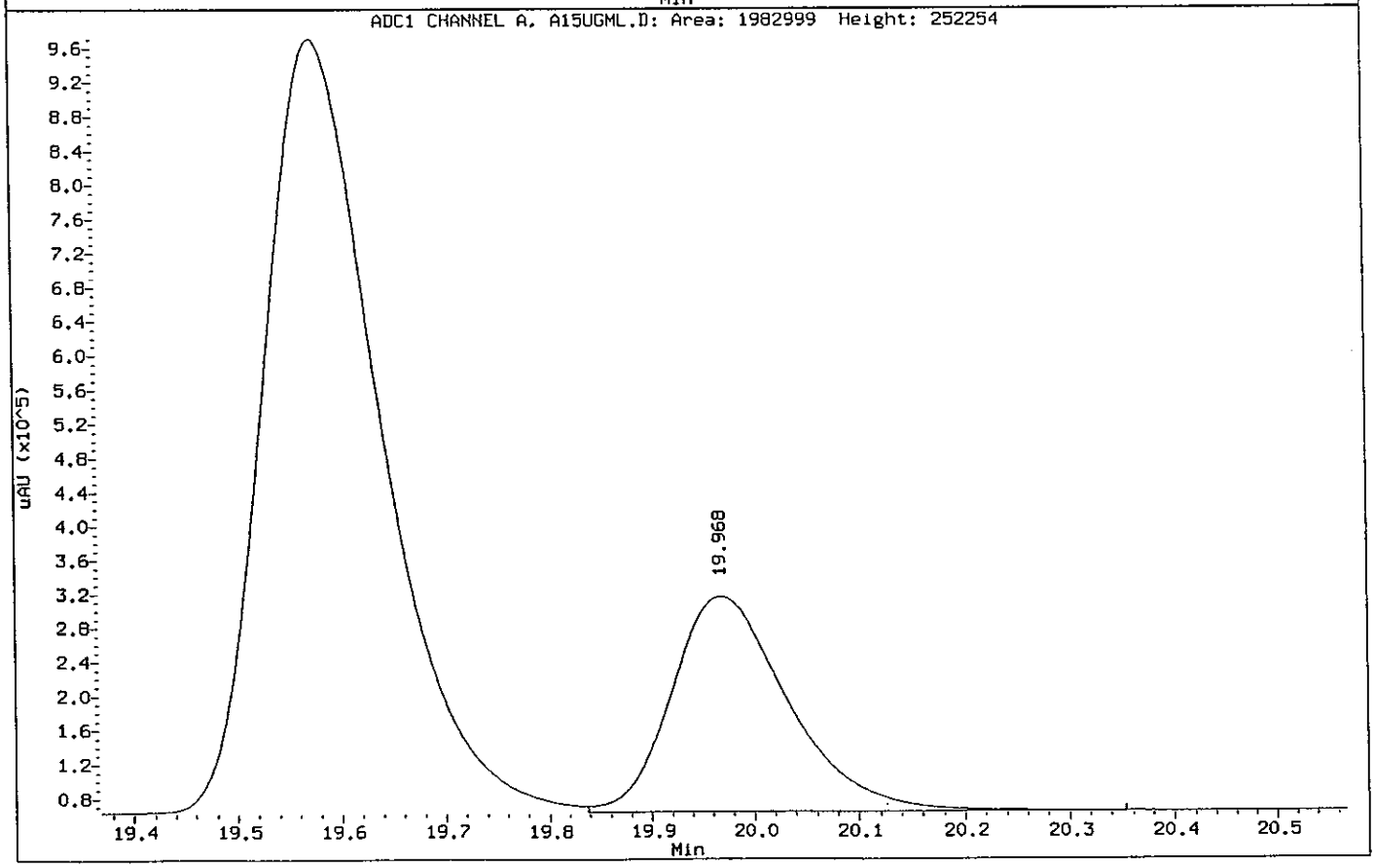


JMD

Data File: \\SVHPLC\ee\chem\slc02.i\RECAL0920A.B\A15UGML.D
Injection Date: 20-SEP-2001 18:14
Instrument: slc02.i
Client Sample ID: A15UGML

Compound: Chrysene
CAS Number: 218-01-9





JMD

PEL Laboratories

Data file : \\SVHPLC\ee\chem\slc02.i\RECAL0920A.B\A10UGML.D
Lab Smp Id: 5ugml Client Smp ID: A10UGM
Inj Date : 20-SEP-2001 14:32
Operator : rood Inst ID: slc02.i
Smp Info : 10st2853
Misc Info :
Comment :
Method : \\SVHPLC\ee\chem\slc02.i\RECAL0920A.B\8310A.m
Meth Date : 01-Nov-2001 10:22 rrood Quant Type: ISTD
Cal Date : 20-SEP-2001 13:58 Cal File: A30UGML.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: SVHPLC

Concentration Formula: Amt * DF * 1/(Vo/1000)*Vt

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume Extracted
Vt	1.000	

					AMOUNTS CAL-AMT	AMOUNTS ON-COL		
RT	EXP RT	REL RT	SIGNAL	RESPONSE	(ug/ml)	(ug/ml)	TARGET RANGE	RATIO
* 1 Carbazole (ISTD)							CAS #: 86-74-8	
10.663	10.676	(1.000)	VWD1A	230360			80.00- 120.00	100.00(M)
10.759	10.764	(1.009)	ADC1A	2078099	10.0000		707.26-1060.89	902.11
2 Naphthalene							CAS #: 91-20-3	
11.833	11.843	(1.110)	VWD1A	55369	10.0000	10.5	80.00- 120.00	100.00
11.933	11.934	(1.119)	ADC1A	55112	10.0000	9.6	77.24- 115.86	99.54
3 Acenaphthylene							CAS #: 208-96-8	
13.073	13.076	(1.226)	VWD1A	40695	10.0000	10.3		
4 1-Methyl naphthalene							CAS #: 90-12-0	
13.690	13.703	(1.284)	VWD1A	32658	10.0000	10.3	80.00- 120.00	100.00
13.786	13.798	(1.293)	ADC1A	118829	10.0000	9.4	315.83- 473.75	363.86

RT	EXP RT	REL RT	SIGNAL	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
5 2-Methyl naphthalene						CAS #: 91-57-6		
14.023	14.036	(1.315)	VWD1A	46703	10.0000	10.4	80.00- 120.00	100.00
14.118	14.131	(1.324)	ADC1A	101714	10.0000	9.3	160.98- 241.47	217.79
6 Acenaphthene						CAS #: 83-32-9		
14.353	14.376	(1.346)	VWD1A	21437	10.0000	9.8	80.00- 120.00	100.00
14.449	14.466	(1.355)	ADC1A	255964	10.0000	9.7	841.01-1261.52	1194.03
7 Fluorene						CAS #: 86-73-7		
14.713	14.736	(1.380)	VWD1A	245847	10.0000	10.1	80.00- 120.00	100.00
14.808	14.826	(1.389)	ADC1A	29185	10.0000	9.6	9.84- 14.77	11.87
8 Phenanthrene						CAS #: 85-01-8		
15.520	15.546	(1.455)	VWD1A	685368	10.0000	10.1	80.00- 120.00	100.00
15.613	15.639	(1.464)	ADC1A	652998	10.0000	10.0	72.60- 108.90	95.28
9 Anthracene						CAS #: 120-12-7		
16.236	16.270	(1.523)	VWD1A	1592688			80.00- 120.00	100.00(M)
16.329	16.361	(1.531)	ADC1A	89147	10.0000	9.6	4.32- 6.48	5.60
10 Fluoranthene						CAS #: 206-44-0		
17.073	17.116	(1.601)	VWD1A	163651	10.0000	10.1	80.00- 120.00	100.00(M)
17.181	17.216	(1.611)	ADC1A	12579	10.0000	9.8	6.09- 9.13	7.69
11 Pyrene						CAS #: 129-00-0		
17.613	17.663	(1.652)	VWD1A	127816	10.0000	10.2	80.00- 120.00	100.00
17.713	17.761	(1.661)	ADC1A	1306798	10.0000	10.1	851.54-1277.31	1022.41
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.586	18.640	(1.743)	VWD1A	150101	10.0000	10.7	80.00- 120.00	100.00
18.684	18.736	(1.752)	ADC1A	4329649	10.0000	10.2	2363.40-3545.10	2884.49
13 Benzo(a)Anthracene						CAS #: 56-55-3		
19.420	19.480	(1.821)	VWD1A	386722	10.0000	10.1	80.00- 120.00	100.00
19.518	19.576	(1.830)	ADC1A	4552161	10.0000	10.3	915.32-1372.98	1177.11
14 Chrysene						CAS #: 218-01-9		
19.810	19.870	(1.858)	VWD1A	535432	10.0000	9.9	80.00- 120.00	100.00
19.909	19.968	(1.867)	ADC1A	1260968	10.0000	9.9	177.93- 266.90	235.50
15 Benzo(b)Fluoranthene						CAS #: 205-99-2		
21.240	21.306	(1.992)	VWD1A	436907	10.0000	10.5	80.00- 120.00	100.00
21.338	21.404	(2.001)	ADC1A	113229	10.0000	9.7	18.09- 27.13	25.92
16 Benzo(k)Fluoranthene						CAS #: 207-08-9		
21.866	21.936	(2.051)	VWD1A	327665	10.0000	10.2	80.00- 120.00	100.00

					AMOUNTS CAL-AMT	ON-COL		
RT	EXP RT	REL RT	SIGNAL	RESPONSE	(ug/ml)	(ug/ml)	TARGET RANGE	RATIO
16 Benzo(k)Fluoranthene (continued)								
21.966	22.034	(2.060)	ADC1A	227662	10.0000	10.0	54.68- 82.01	69.48
17 Benzo(a)pyrene						CAS #: 50-32-8		
22.456	22.533	(2.106)	VWD1A	380227	10.0000	10.3	80.00- 120.00	100.00
22.558	22.634	(2.115)	ADC1A	657434	10.0000	10.1	134.63- 201.95	172.91
18 Dibenz(ah)Anthracene						CAS #: 53-70-3		
23.466	23.543	(2.201)	VWD1A	93139	10.0000	10.3	80.00- 120.00	100.00
23.569	23.643	(2.210)	ADC1A	1142380	10.0000	10.6	886.06-1329.09	1226.53
19 Benzo(ghi)Perylene						CAS #: 191-24-2		
24.200	24.286	(2.269)	VWD1A	148404			80.00- 120.00	100.00
24.303	24.388	(2.279)	ADC1A	312128	10.0000	9.9	154.26- 231.38	210.32
20 Indeno(123cd)Pyrene						CAS #: 193-39-5		
24.663	24.756	(2.313)	VWD1A	386840	10.0000	10.1		(M)

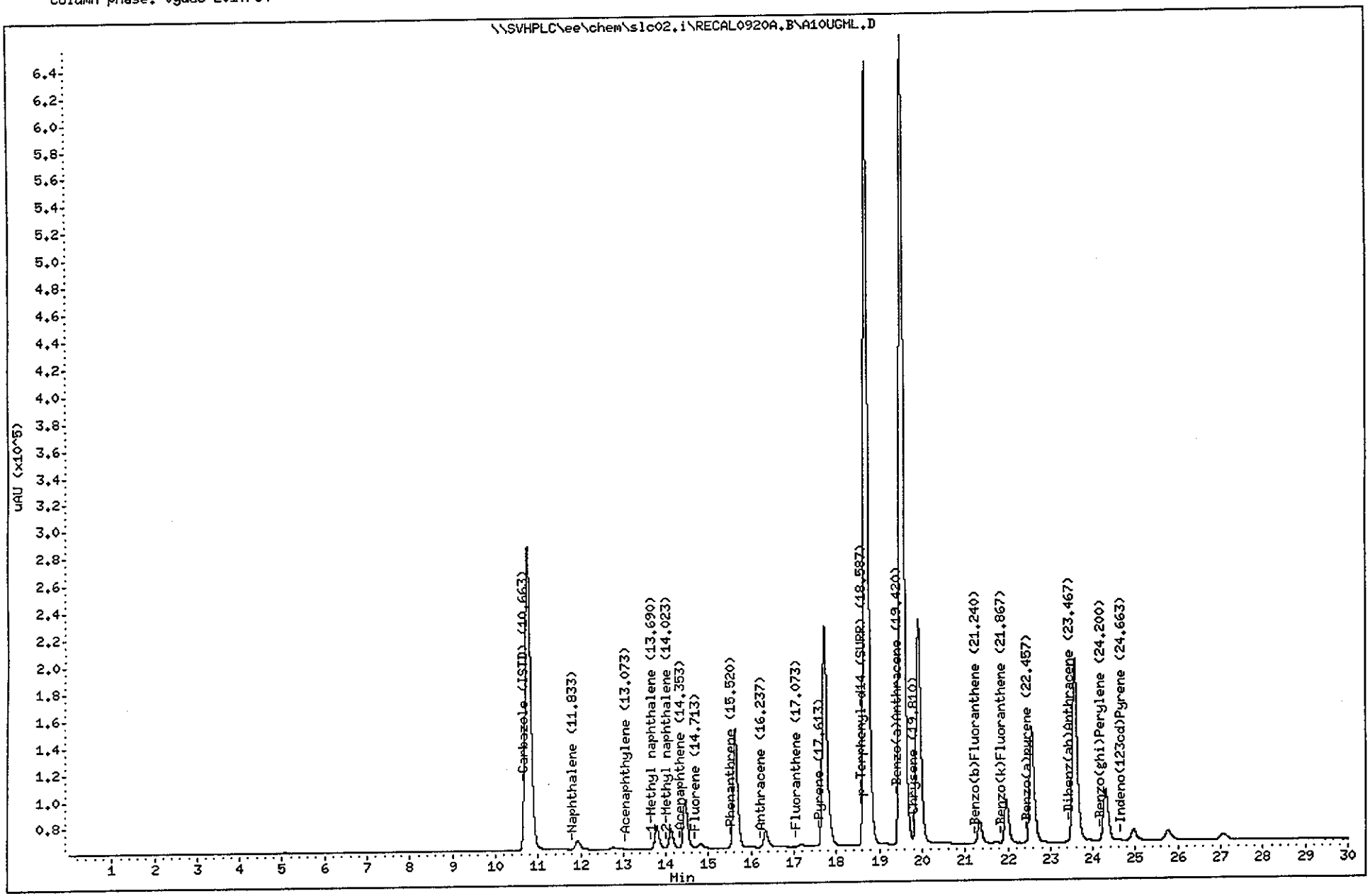
QC Flag Legend

M - Compound response manually integrated.

Data File: \\SVHPLC\ee\chem\slc02.i\RECAL0920A.B\A10UGHL.D
Date : 20-SEP-2001 14:32
Client ID: A10UGH
Sample Info: 10st2853
Purge Volume: 1000.0
Column phase: Vydac 201TP54

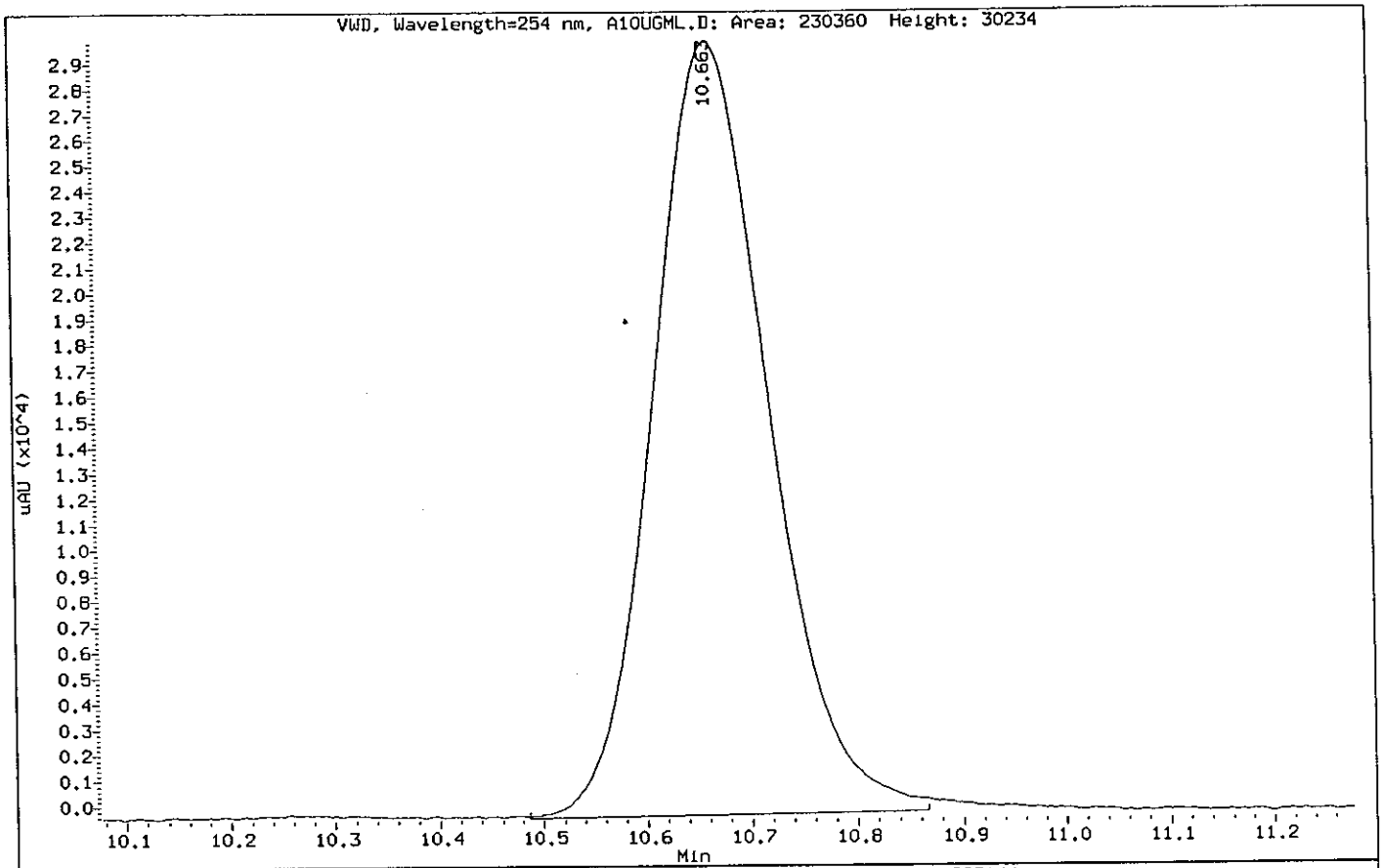
Instrument: slc02.i

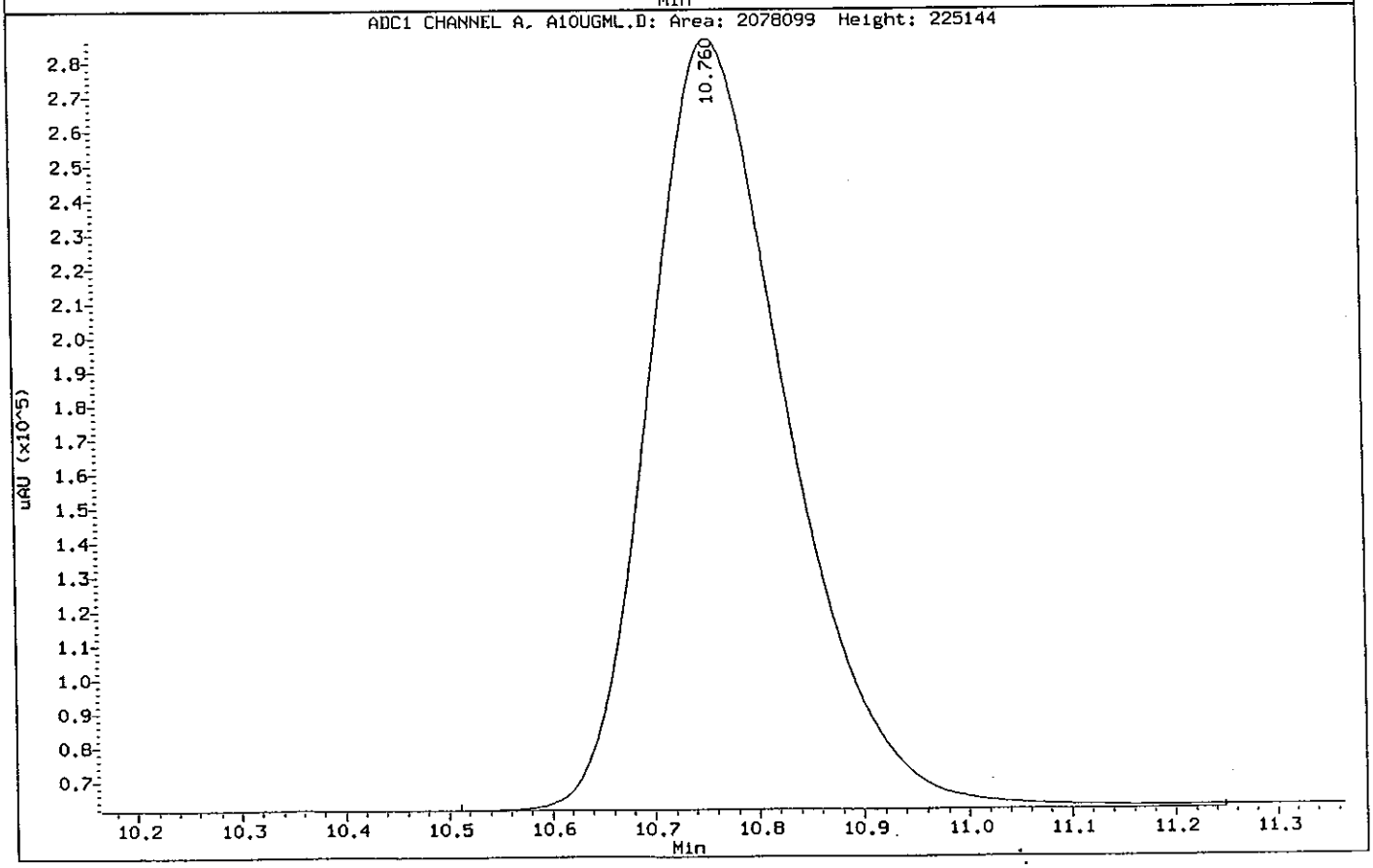
Operator: rood
Column diameter: 4.60



Data File: \\SVHPLC\ee\chem\slc02.i\RECAL0920A.B\A10UGML.D
Injection Date: 20-SEP-2001 14:32
Instrument: slc02.i
Client Sample ID: A10UGM

Compound: Carbazole (ISTD)
CAS Number: 86-74-8

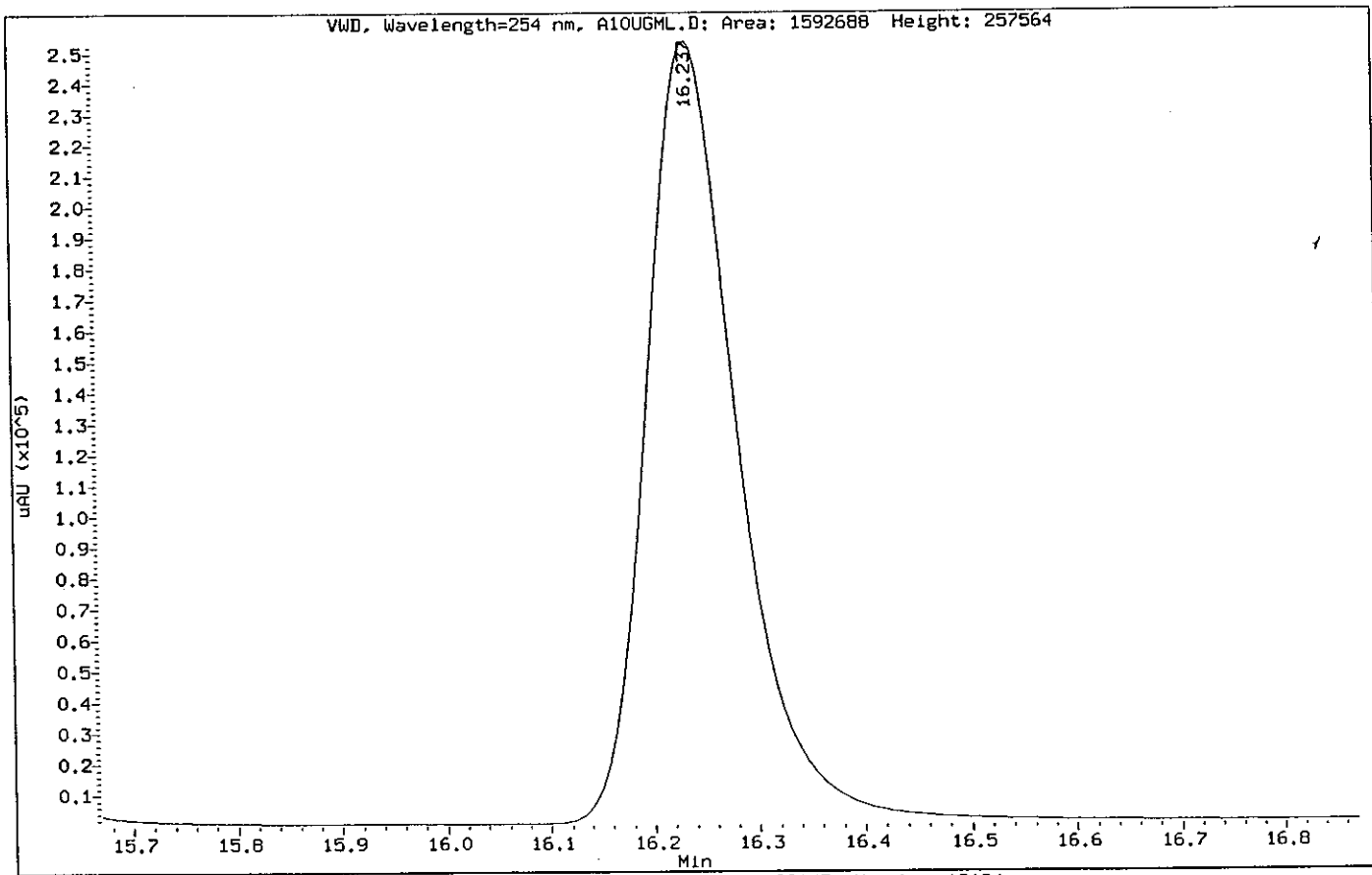


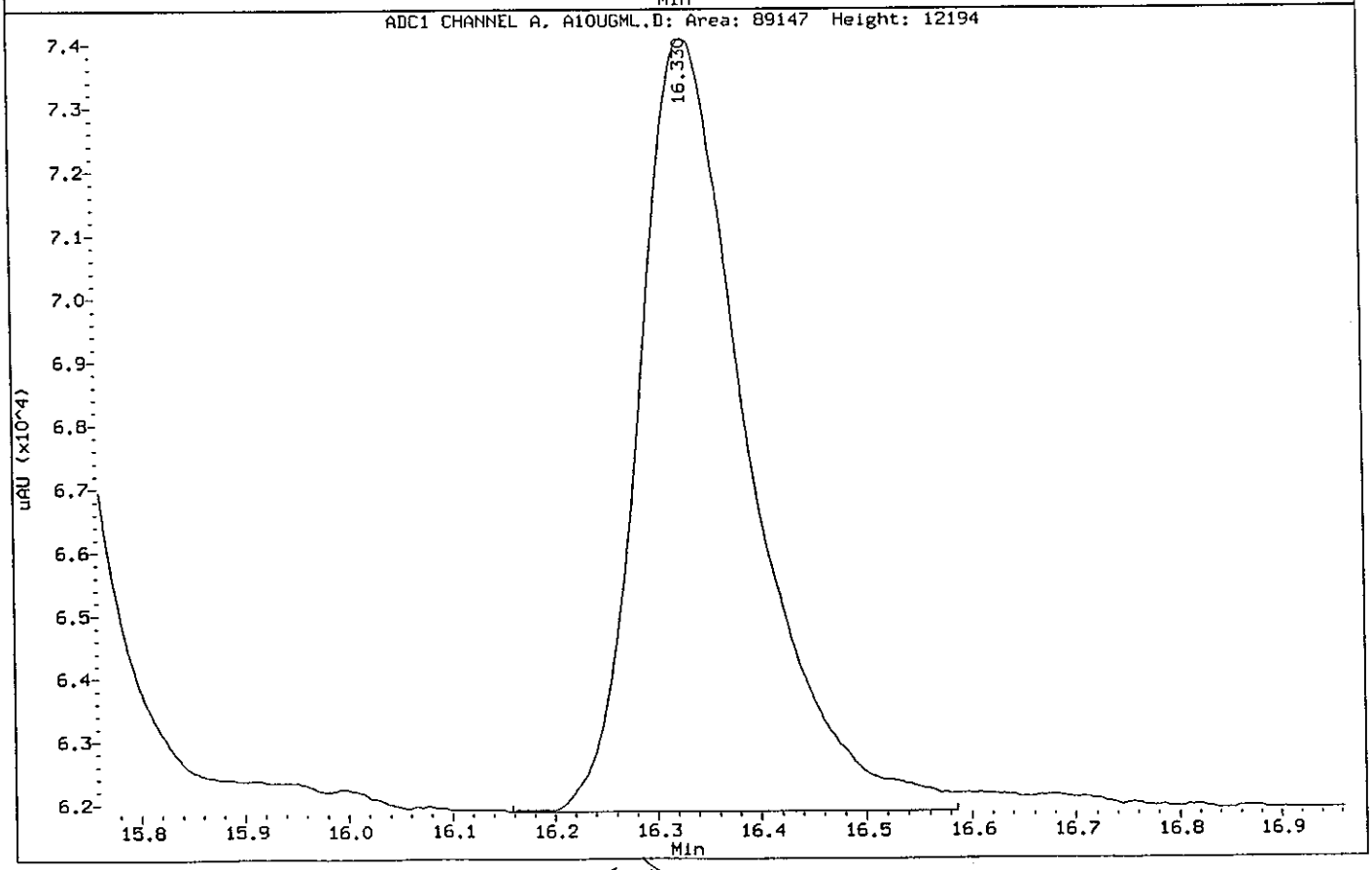


FWD

Data File: \\SVHPLC\ee\chem\slc02.i\RECAL0920A.B\A10UGML.D
Injection Date: 20-SEP-2001 14:32
Instrument: slc02.i
Client Sample ID: A10UGM

Compound: Anthracene
CAS Number: 120-12-7





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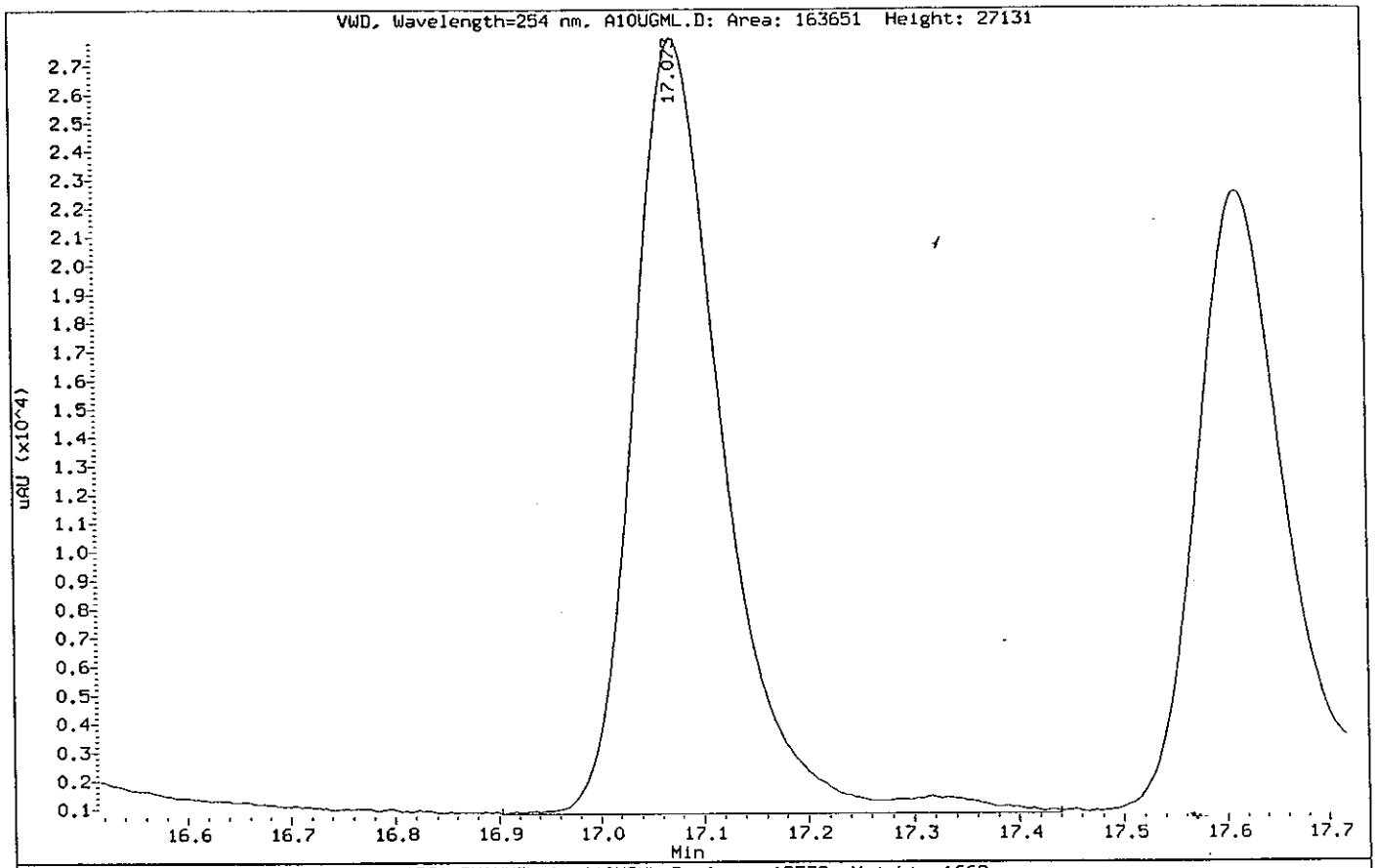
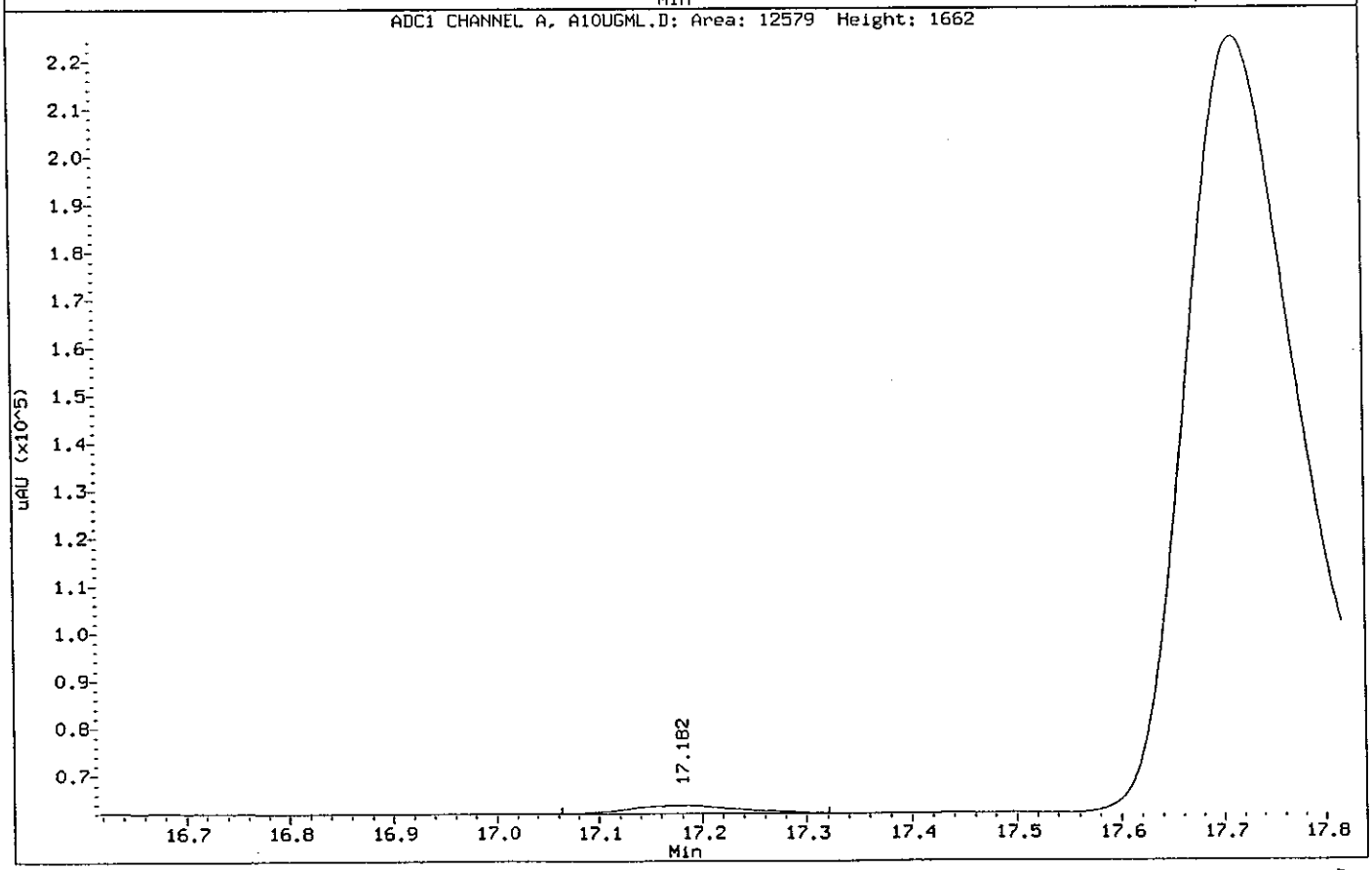
Data File: \\SVHPLC\ee\chem\slc02.i\RECAL0920A.B\A10UGML.D
Injection Date: 20-SEP-2001 14:32
Instrument: slc02.i
Client Sample ID: A10UGM

Compound: Fluoranthene
CAS Number: 206-44-0





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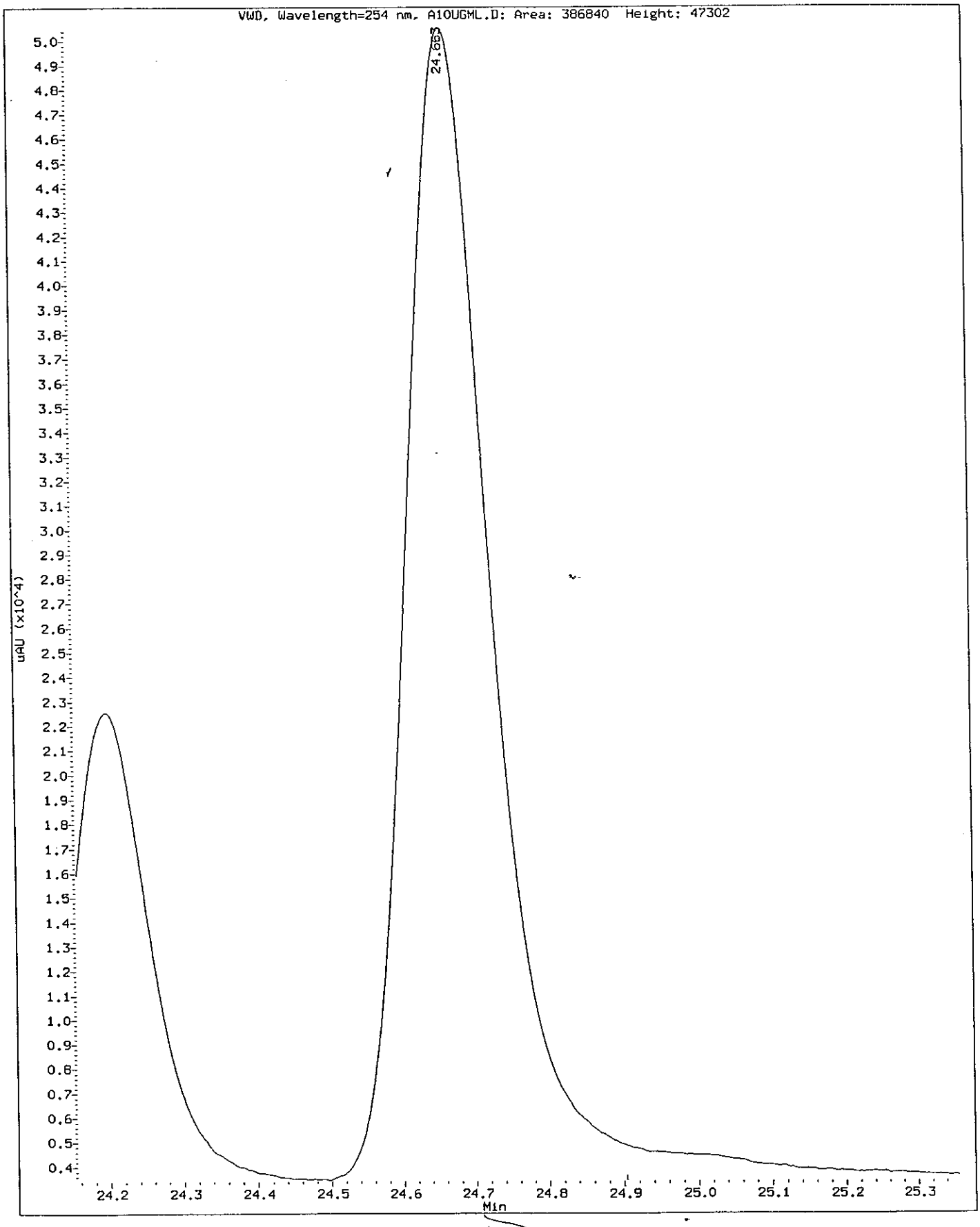
Injection Date: 20-SEP-2001 14:32
Instrument: slc02.i
Client Sample ID: A10UGM

Compound: Indeno(123cd)Pyrene
CAS Number: 193-39-5



PEL Laboratories

Data file : \\SVHPLC\ee\chem\slc02.i\RECAL0920A.B\A5UGML.D
Lab Smp Id: 5st2854 Client Smp ID: A5UGML
Inj Date : 20-SEP-2001 18:48
Operator : rood Inst ID: slc02.i
Smp Info : 5st2854
Misc Info : CORRECTED IS TO 9.0UL PER 1800
Comment :
Method : \\SVHPLC\ee\chem\slc02.i\RECAL0920A.B\8310A.m
Meth Date : 01-Nov-2001 10:22 rrood Quant Type: ISTD
Cal Date : 20-SEP-2001 18:48 Cal File: A5UGML.D
Als bottle: 2 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.04 Sample Matrix: WATER
Processing Host: SVHPLC

Concentration Formula: Amt * DF * 1/(Vo/1000)*Vt

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume Extracted
Vt	1.000	

					AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO
* 1 Carbazole (ISTD)							CAS #: 86-74-8	
10.650	10.676	(1.000)	VWD1A	245408			80.00- 120.00	100.00(M)
10.746	10.764	(1.009)	ADC1A	2169583	10.0000		707.26-1060.89	884.07
2 Naphthalene							CAS #: 91-20-3	
11.823	11.843	(1.110)	VWD1A	27788	5.00000	5.0	80.00- 120.00	100.00
11.918	11.934	(1.119)	ADC1A	26829	5.00000	4.5	77.24- 115.86	96.55
3 Acenaphthylene							CAS #: 208-96-8	
13.060	13.076	(1.226)	VWD1A	20543	5.00000	5.0		
4 1-Methyl naphthalene							CAS #: 90-12-0	
13.696	13.703	(1.286)	VWD1A	16441	5.00000	5.0	80.00- 120.00	100.00(M)
13.789	13.798	(1.295)	ADC1A	64908	5.00000	4.9	315.83- 473.75	394.79

					AMOUNTS CAL-AMT	ON-COL		
RT	EXP RT	REL RT	SIGNAL	RESPONSE	(ug/ml)	(ug/ml)	TARGET RANGE	RATIO
5 2-Methyl naphthalene						CAS #: 91-57-6		
14.030	14.036	(1.317)	VWD1A	24551	5.00000	5.2	80.00- 120.00	100.00(M)
14.128	14.131	(1.327)	ADC1A	49403	5.00000	4.3	160.98- 241.47	201.23
6 Acenaphthene						CAS #: 83-32-9		
14.363	14.376	(1.349)	VWD1A	11678	5.00000	5.1	80.00- 120.00	100.00(M)
14.461	14.466	(1.358)	ADC1A	122767	5.00000	4.4	841.01-1261.52	1051.27
7 Fluorene						CAS #: 86-73-7		
14.730	14.736	(1.383)	VWD1A	125527	5.00000	5.0	80.00- 120.00	100.00(M)
14.824	14.826	(1.392)	ADC1A	15447	5.00000	4.9	9.84- 14.77	12.31
8 Phenanthrene						CAS #: 85-01-8		
15.543	15.546	(1.459)	VWD1A	345715	5.00000	4.9	80.00- 120.00	100.00(M)
15.639	15.639	(1.469)	ADC1A	313740	5.00000	4.6	72.60- 108.90	90.75
9 Anthracene						CAS #: 120-12-7		
16.270	16.270	(1.528)	VWD1A	814987			80.00- 120.00	100.00(M)
16.366	16.361	(1.537)	ADC1A	44026	5.00000	4.5	4.32- 6.48	5.40
10 Fluoranthene						CAS #: 206-44-0		
17.116	17.116	(1.607)	VWD1A	84186	5.00000	5.0	80.00- 120.00	100.00
17.216	17.216	(1.617)	ADC1A	6404	5.00000	4.8	6.09- 9.13	7.61
11 Pyrene						CAS #: 129-00-0		
17.663	17.663	(1.659)	VWD1A	62891	5.00000	4.8	80.00- 120.00	100.00(M)
17.766	17.761	(1.668)	ADC1A	669425	5.00000	5.0	851.54-1277.31	1064.42
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.643	18.640	(1.751)	VWD1A	73490	5.00000	5.0	80.00- 120.00	100.00(M)
18.743	18.736	(1.760)	ADC1A	2171080	5.00000	4.9	2363.40-3545.10	2954.25
13 Benzo(a)Anthracene						CAS #: 56-55-3		
19.483	19.480	(1.829)	VWD1A	198846	5.00000	5.0	80.00- 120.00	100.00
19.583	19.576	(1.839)	ADC1A	2275096	5.00000	4.9	915.32-1372.98	1144.15
14 Chrysene						CAS #: 218-01-9		
19.876	19.870	(1.866)	VWD1A	283680	5.00000	5.0	80.00- 120.00	100.00(M)
19.981	19.968	(1.876)	ADC1A	630957	5.00000	4.7	177.93- 266.90	222.42
15 Benzo(b)Fluoranthene						CAS #: 205-99-2		
21.316	21.306	(2.002)	VWD1A	226238	5.00000	5.2	80.00- 120.00	100.00(M)
21.419	21.404	(2.011)	ADC1A	51151	5.00000	4.2	18.09- 27.13	22.61
16 Benzo(k)Fluoranthene						CAS #: 207-08-9		
21.950	21.936	(2.061)	VWD1A	168289	5.00000	5.0	80.00- 120.00	100.00(M)

RT	EXP RT	REL RT	SIGNAL	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	
16 Benzo(k)Fluoranthene (continued)									
22.051	22.034	(2.071)	ADC1A	115016	5.00000	4.8	54.68- 82.01	68.34	
17 Benzo(a)pyrene						CAS #: 50-32-8			
22.546	22.533	(2.117)	VWD1A	187372	5.00000	4.9	80.00- 120.00	100.00	(M)
22.649	22.634	(2.127)	ADC1A	315329	5.00000	4.6	134.63- 201.95	168.29	
18 Dibenz(ah)Anthracene						CAS #: 53-70-3			
23.563	23.543	(2.213)	VWD1A	49850	5.00000	5.3	80.00- 120.00	100.00	(M)
23.668	23.643	(2.222)	ADC1A	552125	5.00000	4.9	886.06-1329.09	1107.57	
19 Benzo(ghi)Perylene						CAS #: 191-24-2			
24.303	24.286	(2.282)	VWD1A	73387			80.00- 120.00	100.00	(M)
24.409	24.388	(2.292)	ADC1A	141504	5.00000	4.3	154.26- 231.38	192.82	
20 Indeno(123cd)Pyrene						CAS #: 193-39-5			
24.776	24.756	(2.326)	VWD1A	196059	5.00000	4.9			(M)

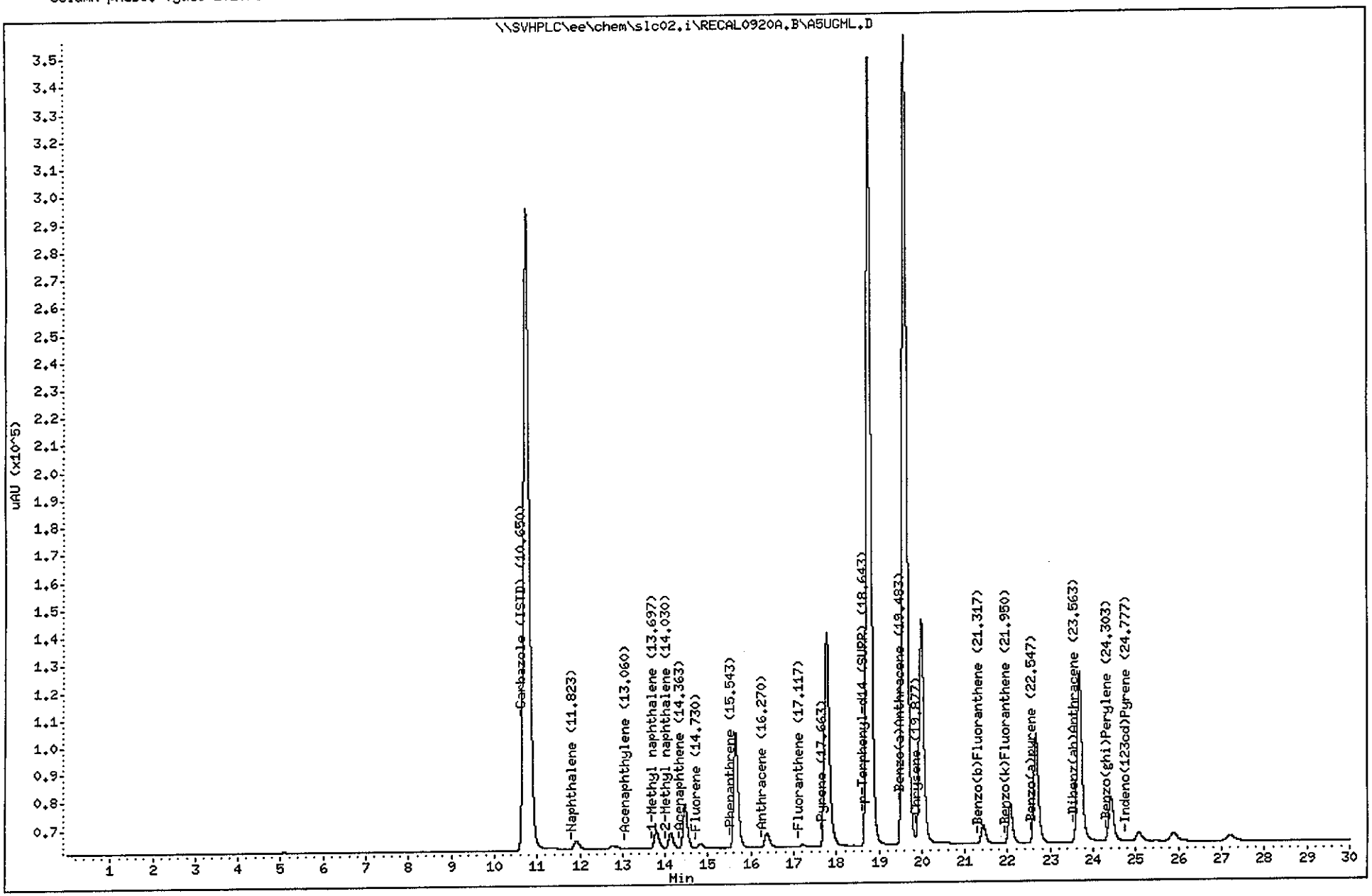
QC Flag Legend

M - Compound response manually integrated.

Data File: \\SVHPLC\ee\chem\slc02.i\RECAL0920A.B\A5UGML.D
Date : 20-SEP-2001 18:48
Client ID: A5UGML
Sample Info: 5st2854
Purge Volume: 1000.0
Column phase: Vydac 201TP54

Instrument: slc02.i

Operator: rood
Column diameter: 4.60



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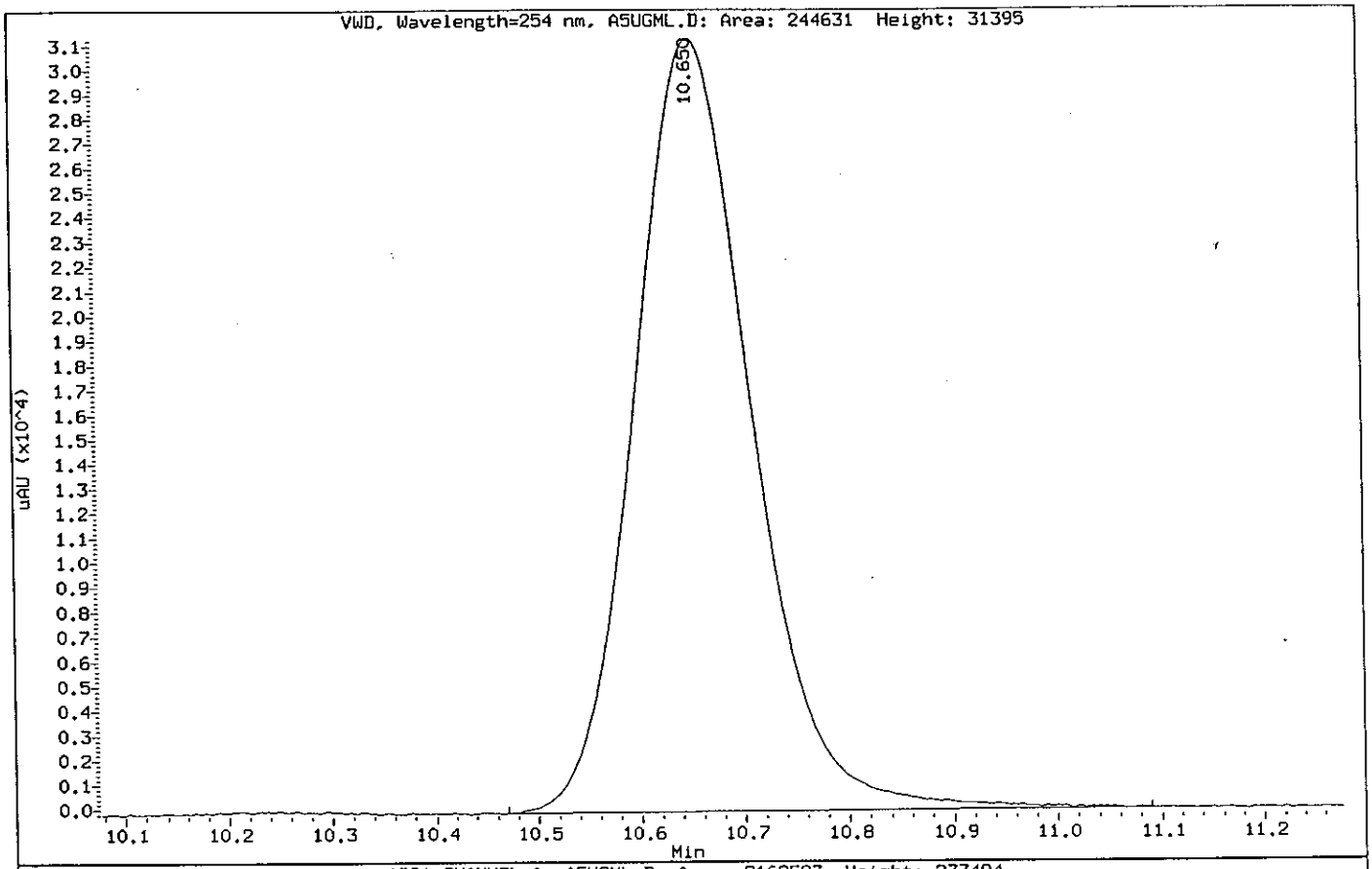
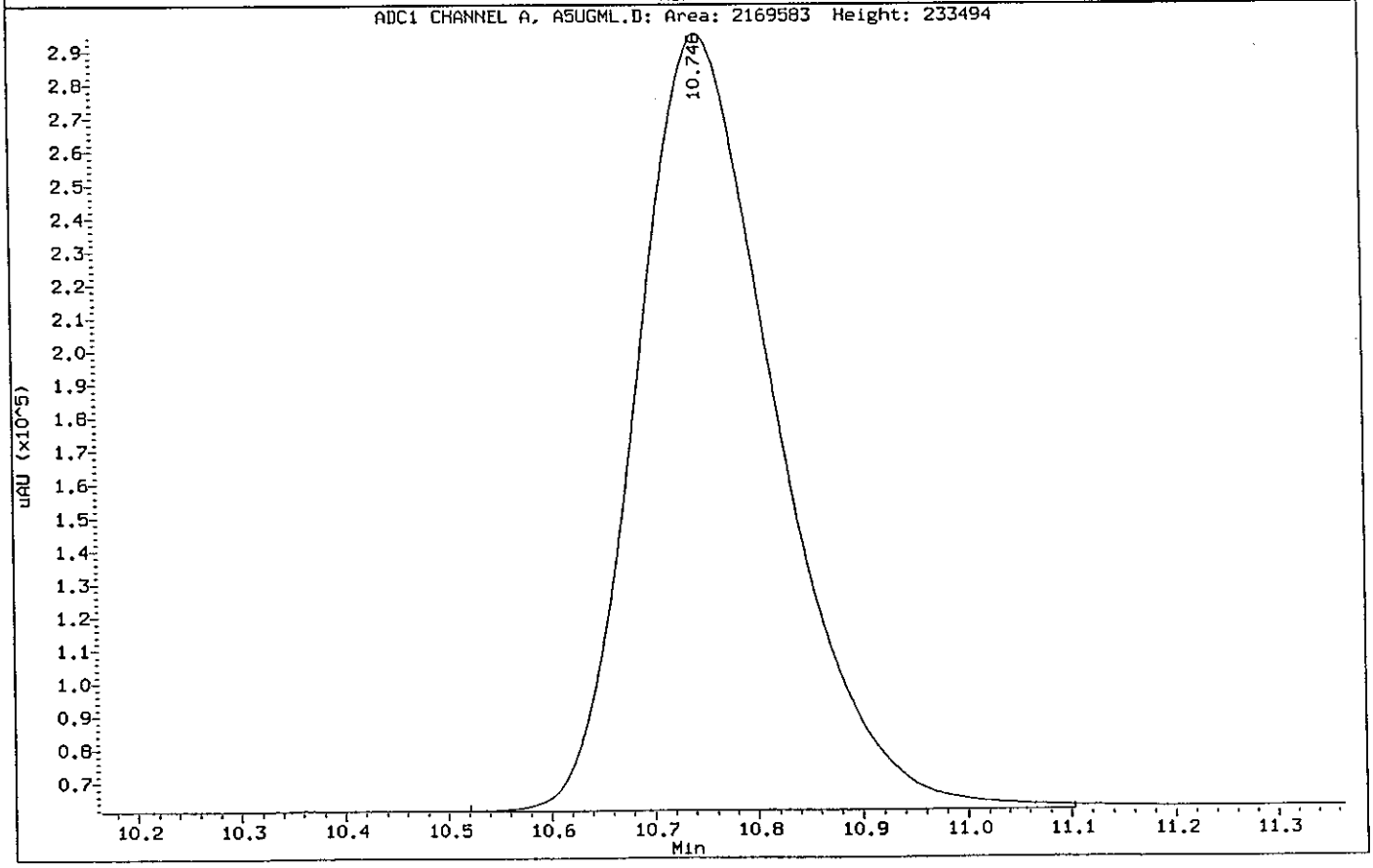
Injection Date: 20-SEP-2001 18:48
Instrument: slc02.i
Client Sample ID: A5UGML

Compound: Carbazole (ISTD)
CAS Number: 86-74-8





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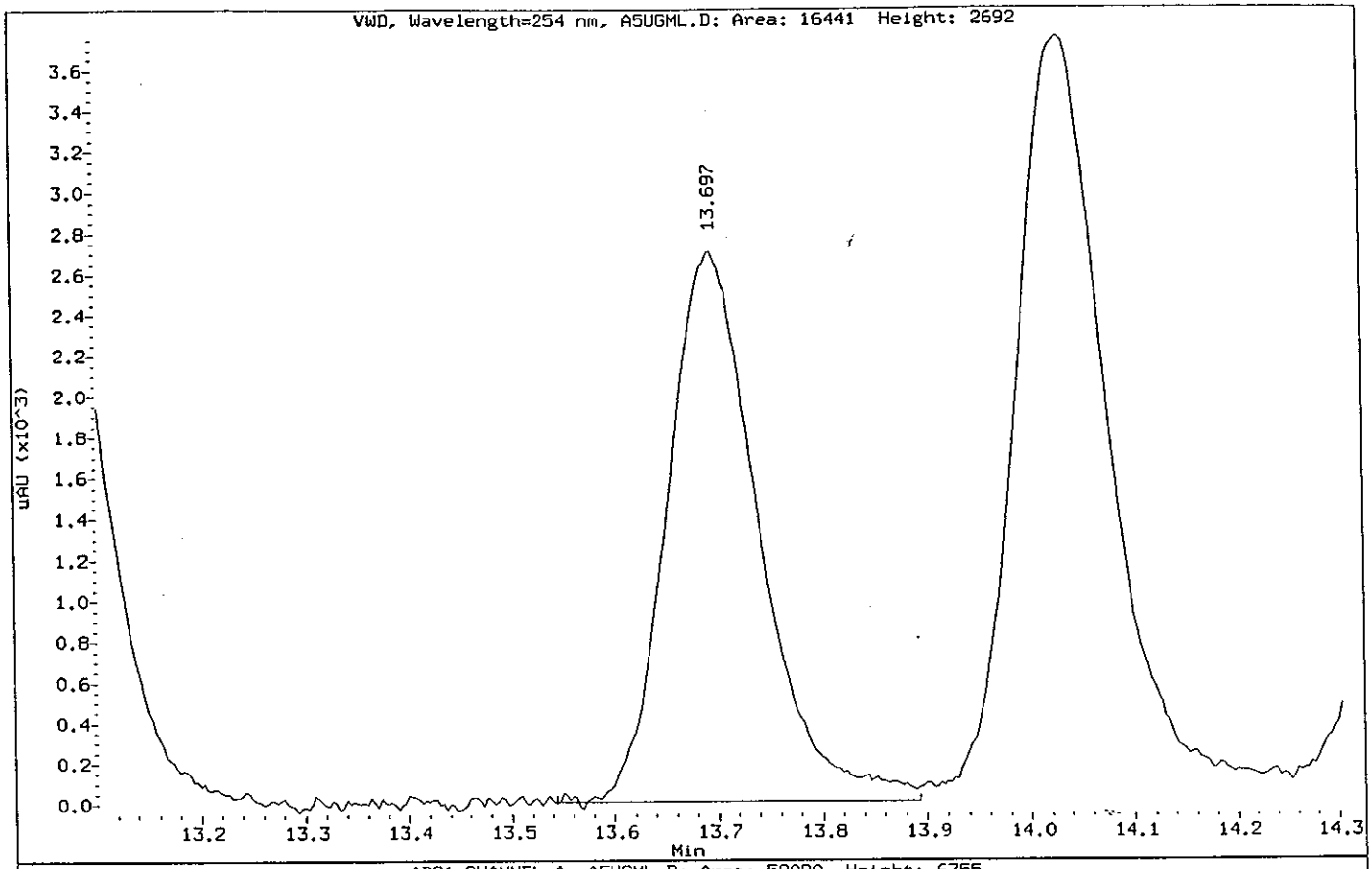
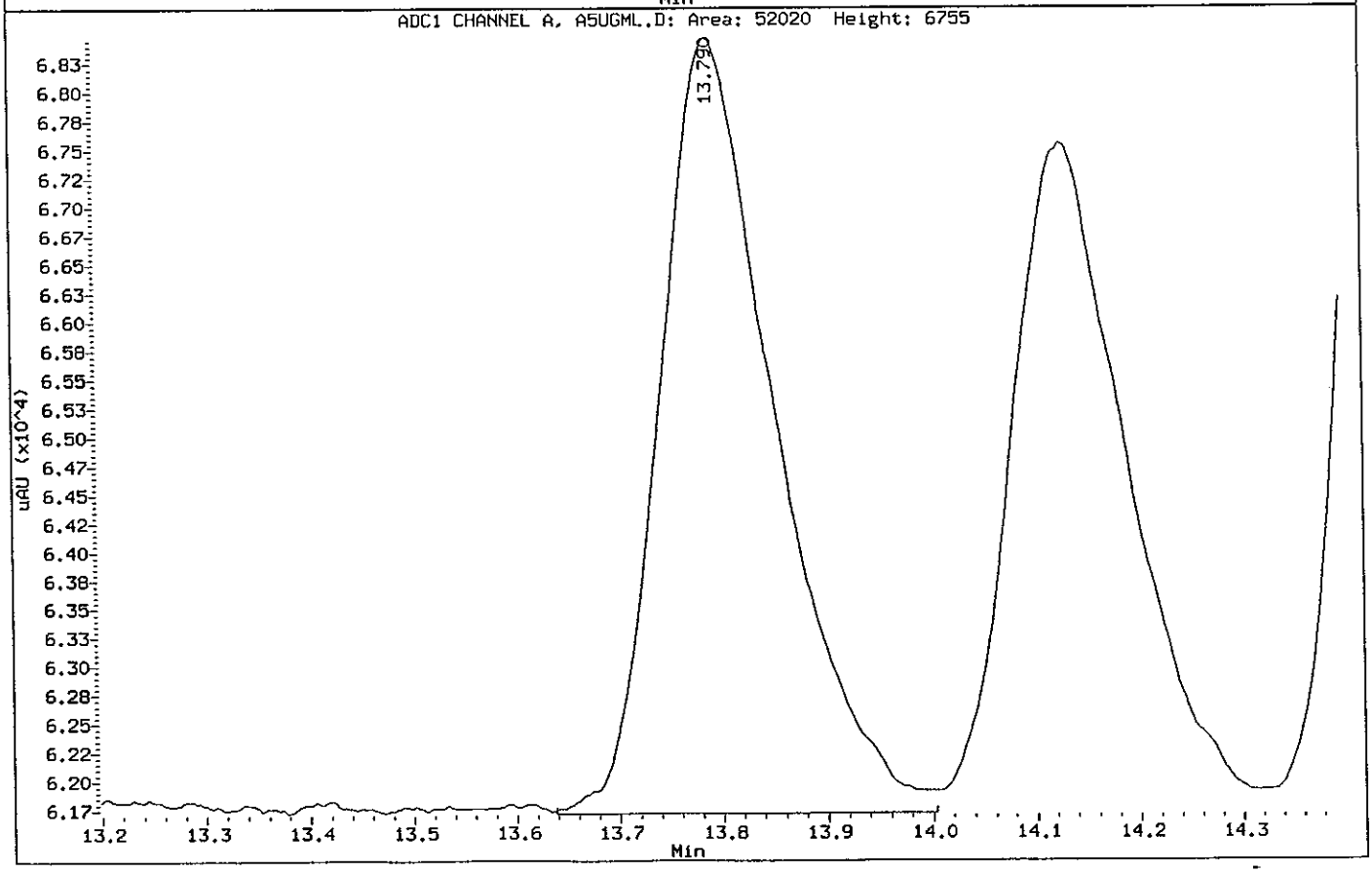
Instrument: slc02.i
Client Sample ID: A5UGML

Compound: 1-Methyl naphthalene
CAS Number: 90-12-0





JMR

Data File: \\SVHPLC\ee\chem\slc02.i\RECAL0920A.B\A5UGML.D
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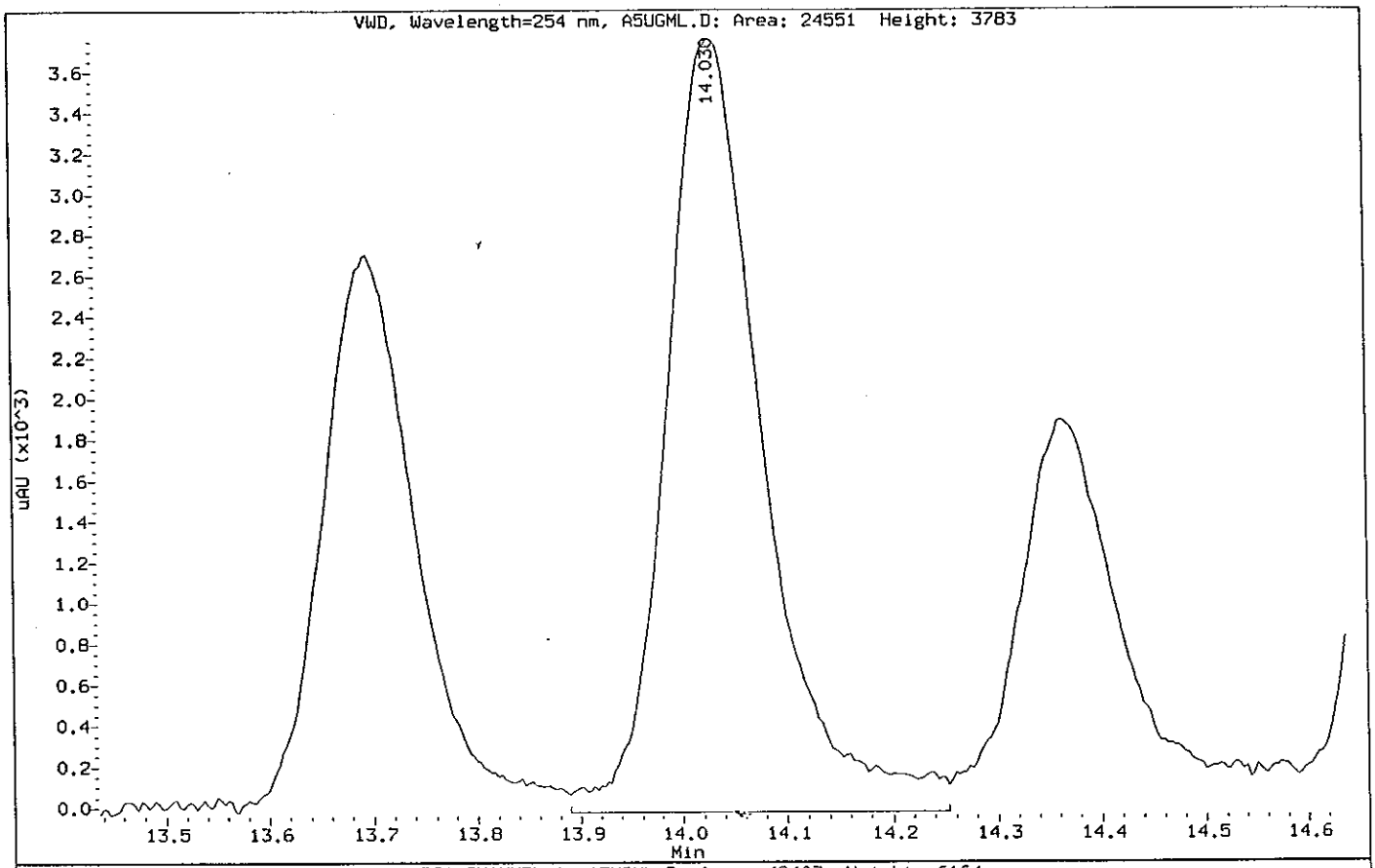
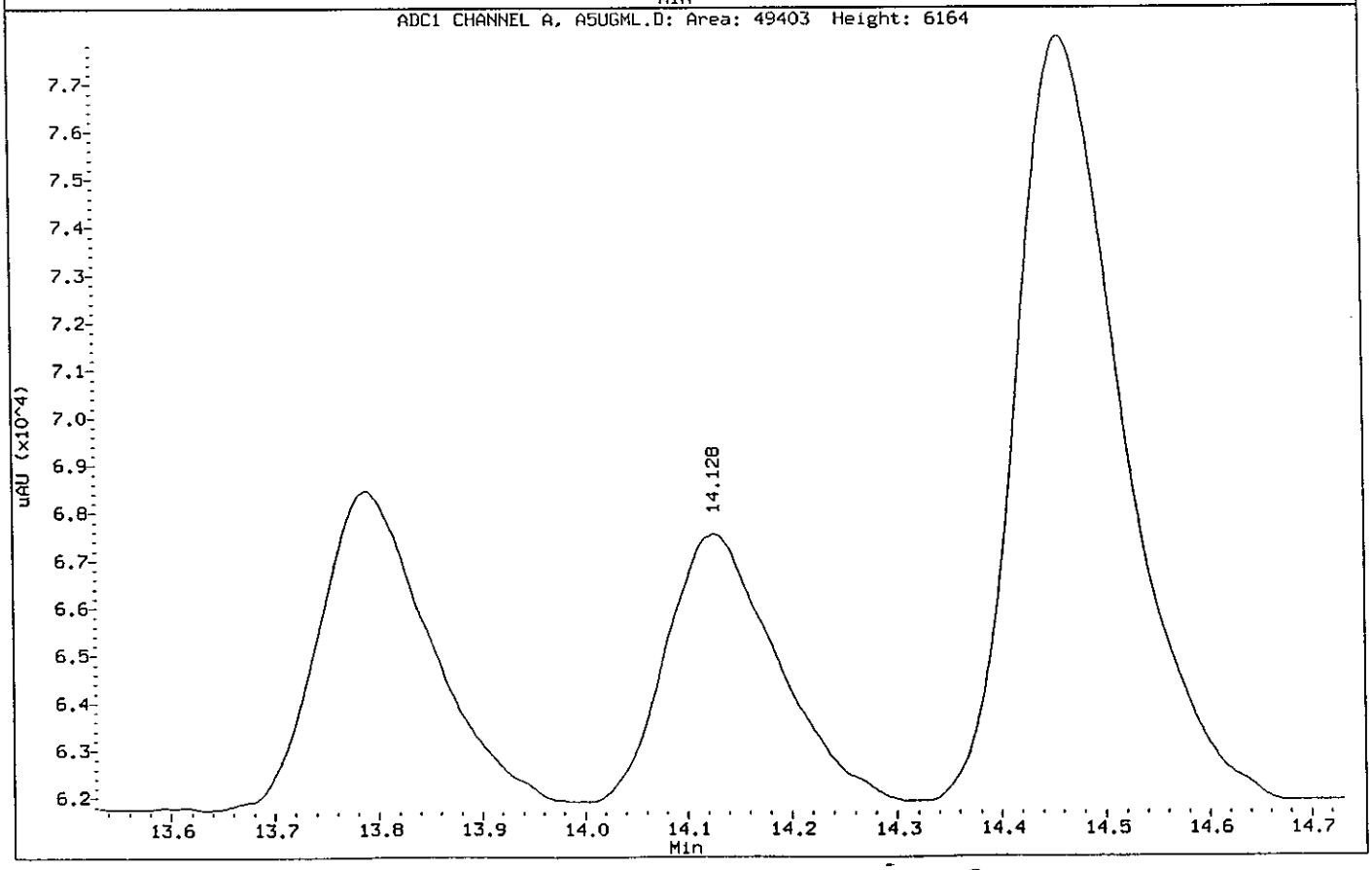
Instrument: slc02.i
Client Sample ID: A5UGML

Compound: 2-Methyl naphthalene
CAS Number: 91-57-6





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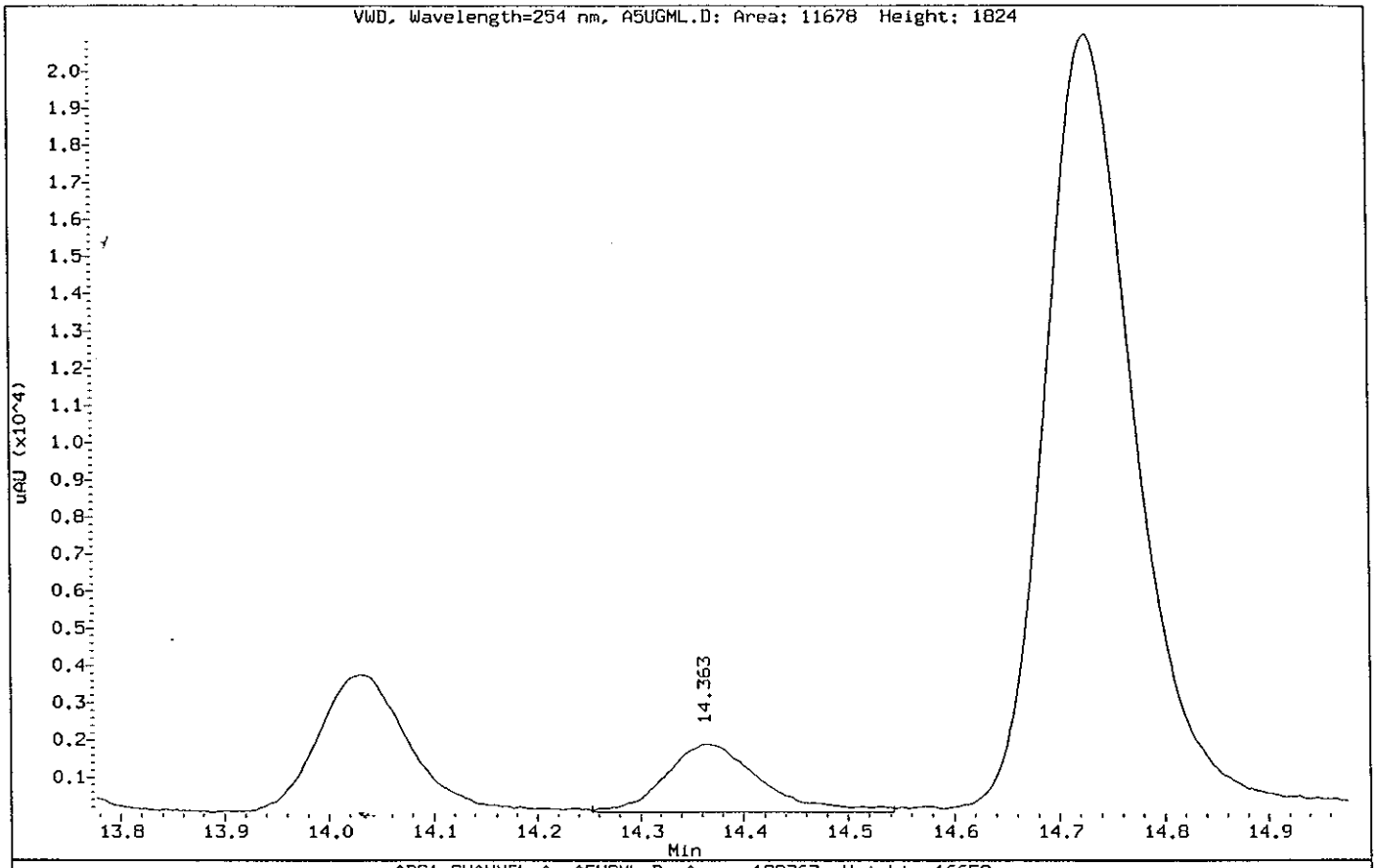
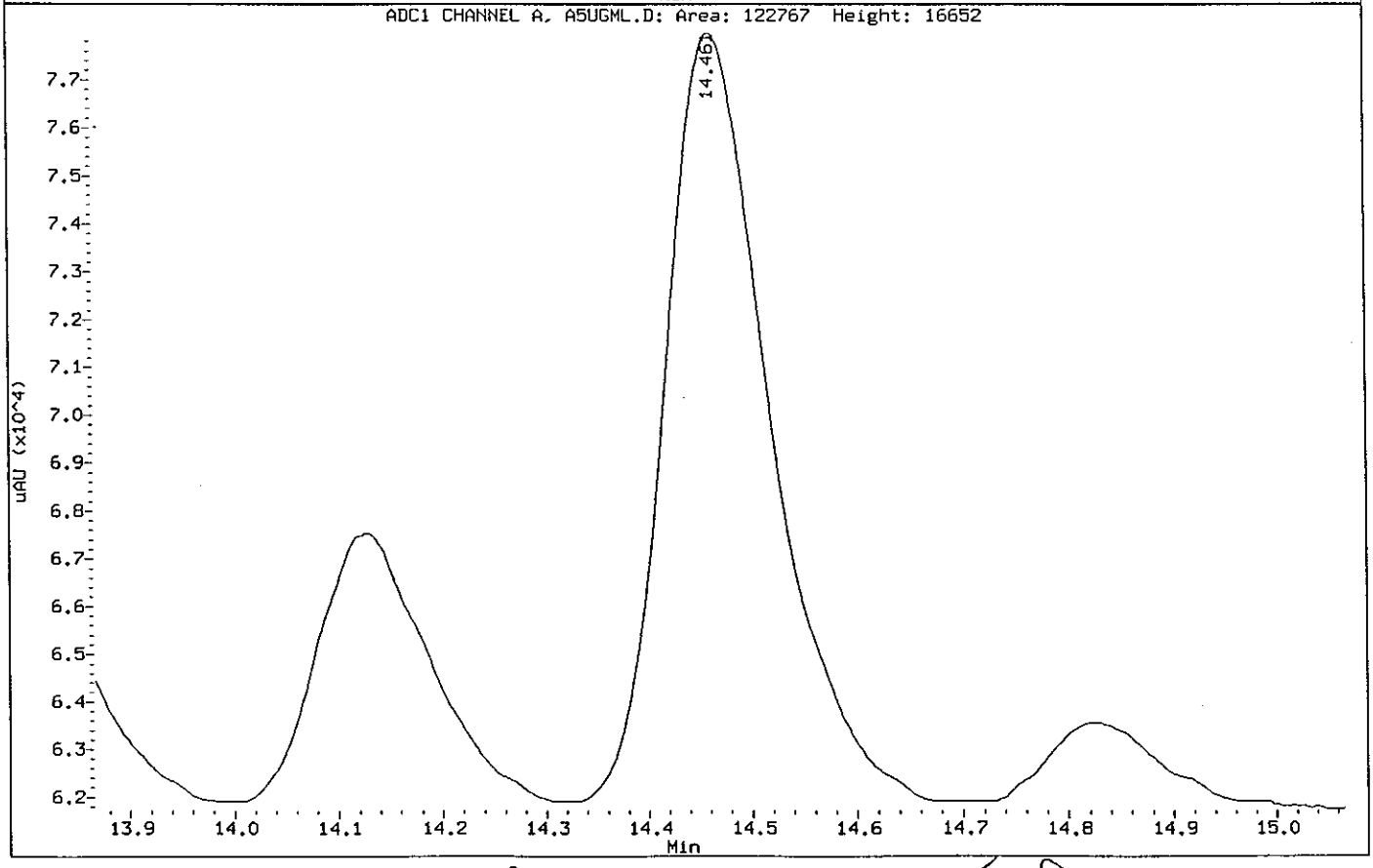
Injection Date: 20-SEP-2001 18:48
Instrument: slc02.i
Client Sample ID: A5UGML

Compound: Acenaphthene
CAS Number: 83-32-9





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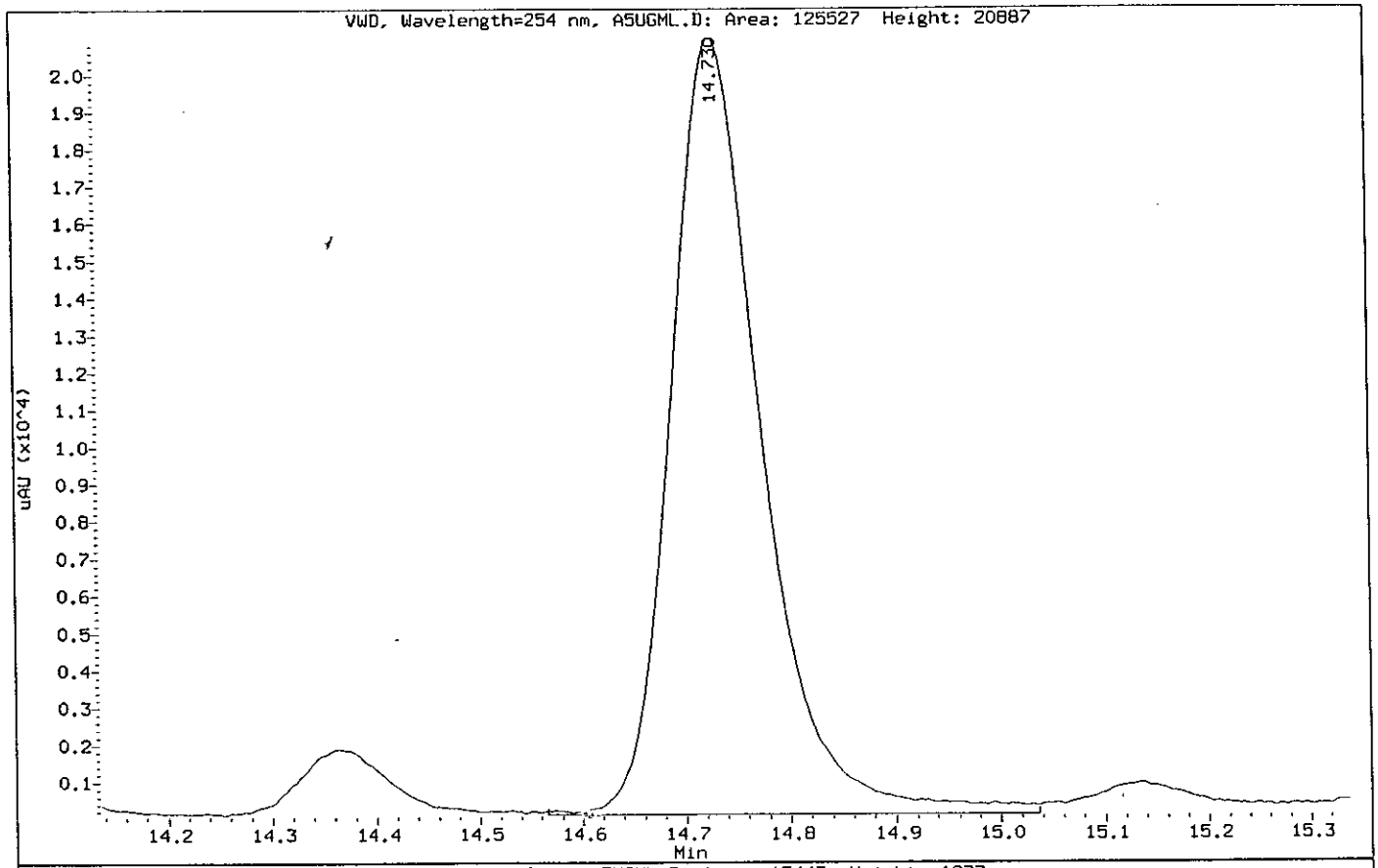
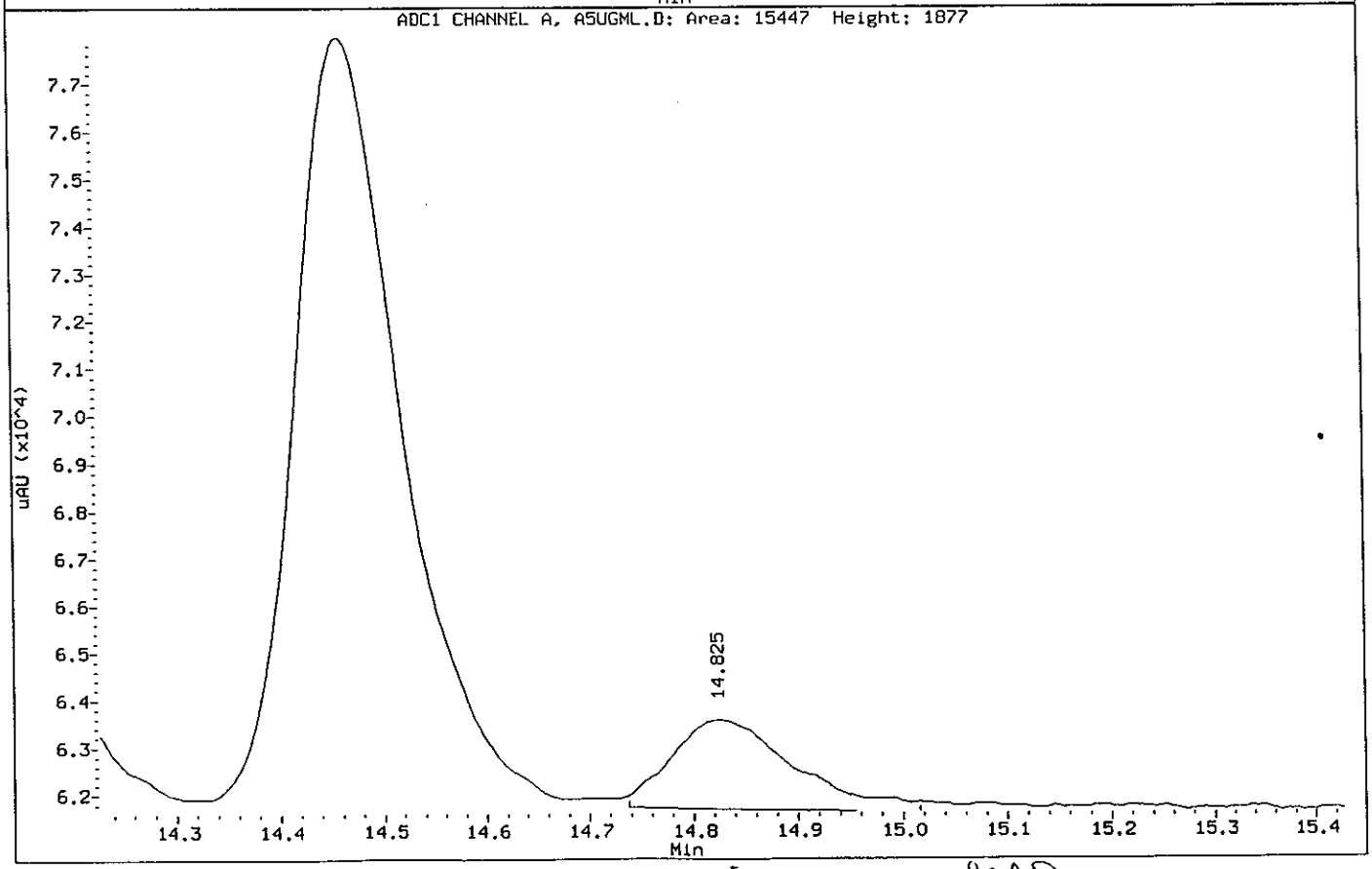
Injection Date: 20-SEP-2001 18:48
Instrument: slc02.i
Client Sample ID: A5UGML

Compound: Fluorene
CAS Number: 86-73-7





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Data File: \\SVHPLC\ee\chem\slc02.i\RECAL0920A.B\A5UGML.D
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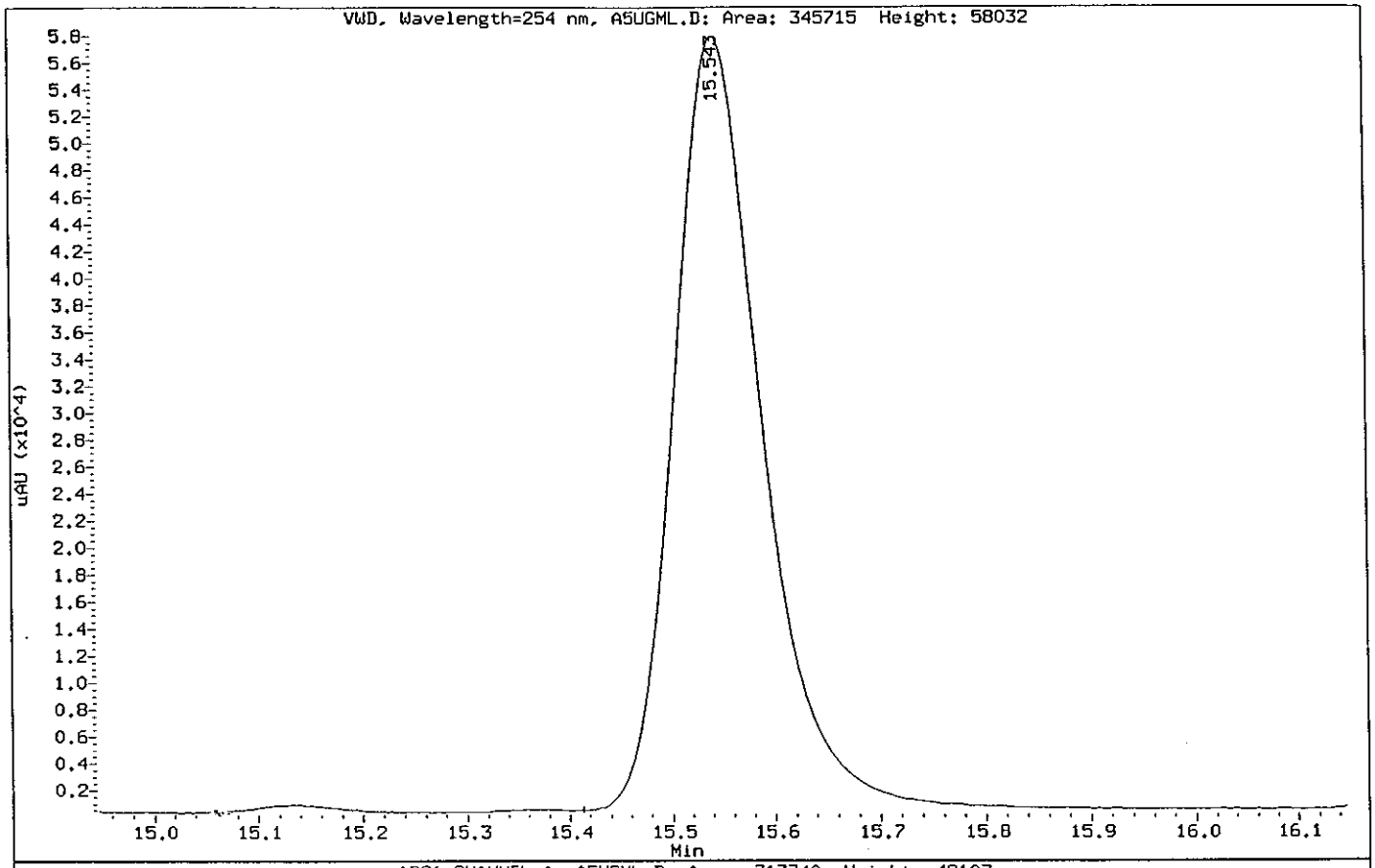
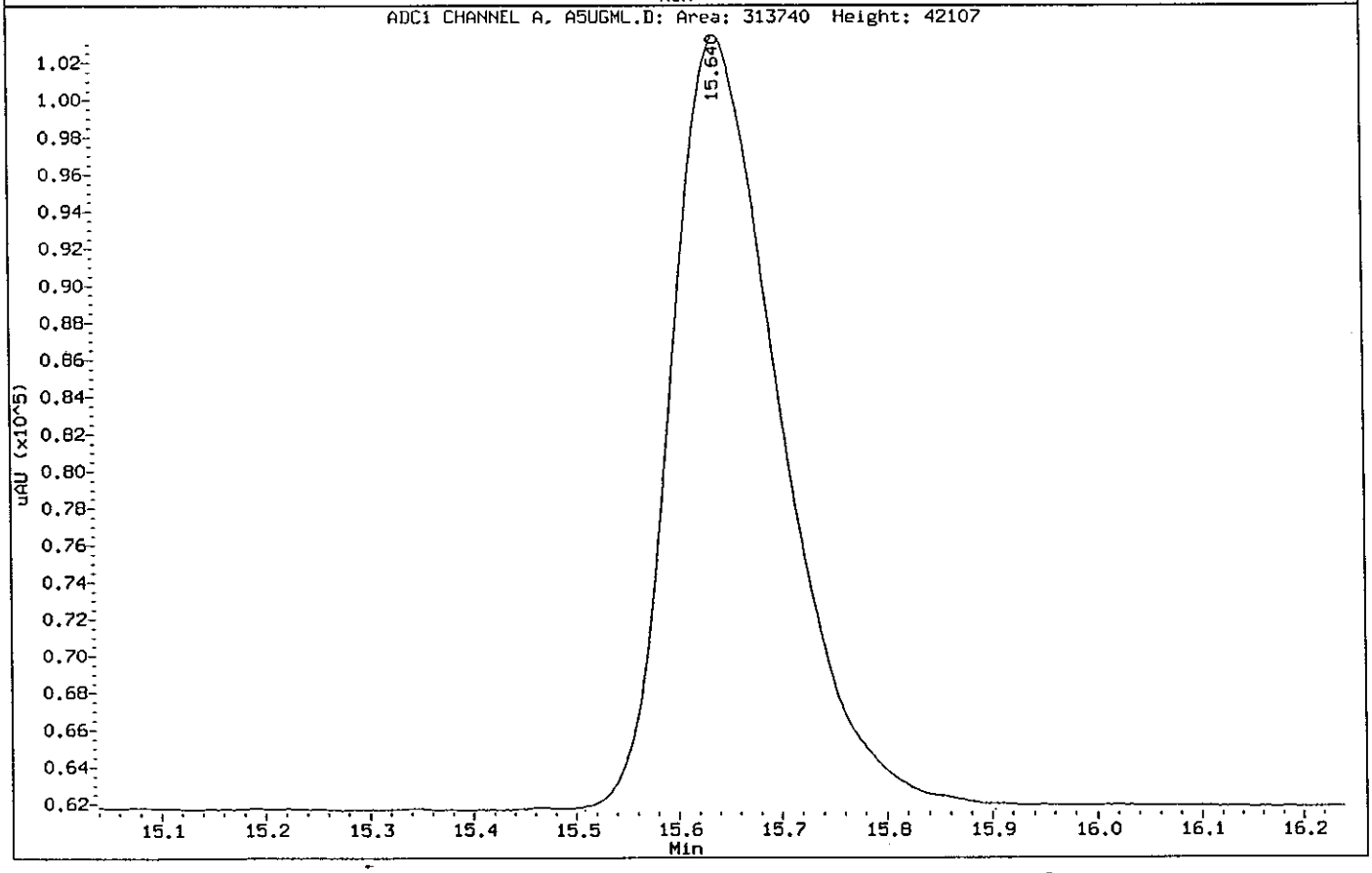
Instrument: slc02.i
Client Sample ID: A5UGML

Compound: Phenanthrene
CAS Number: 85-01-8





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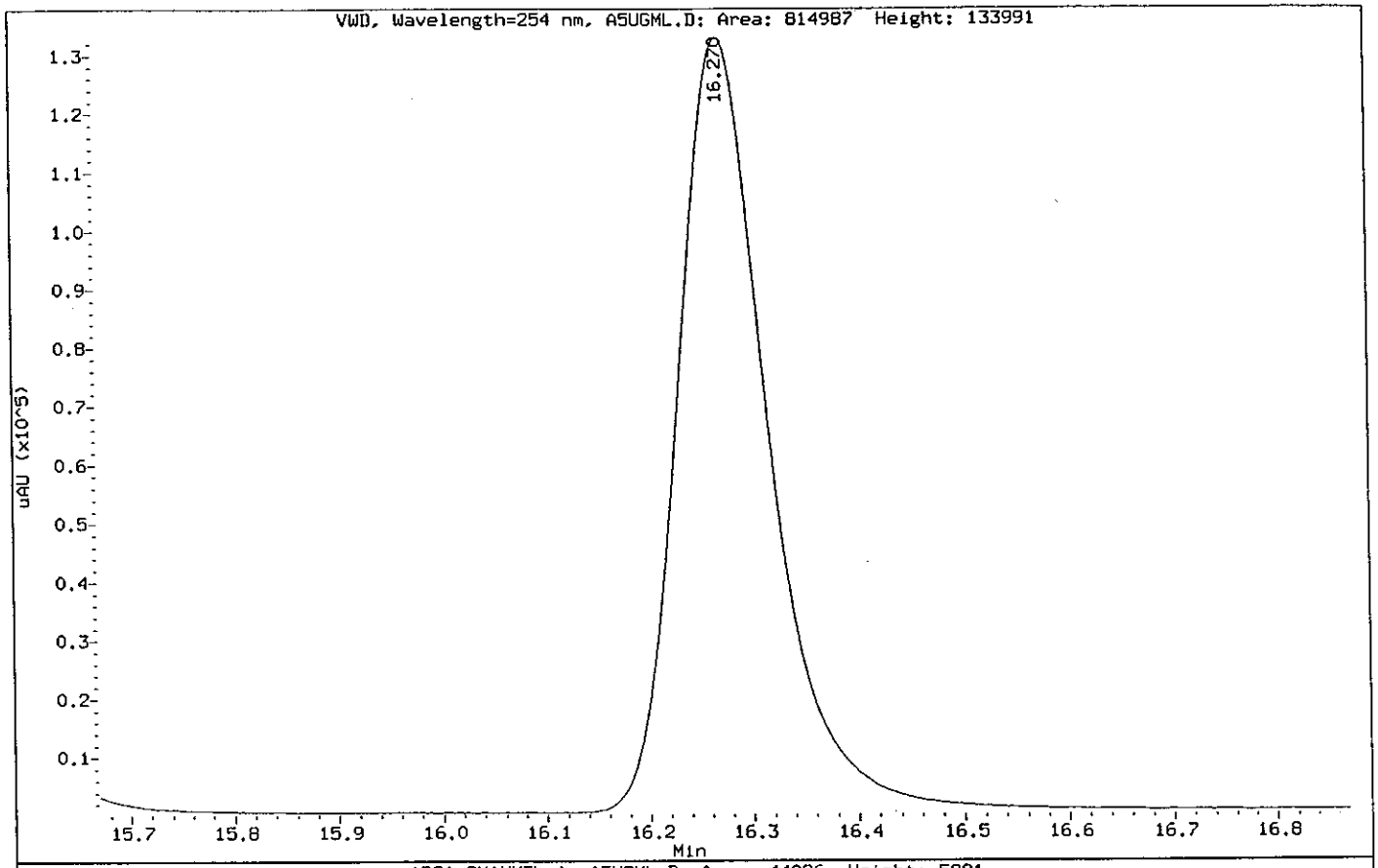
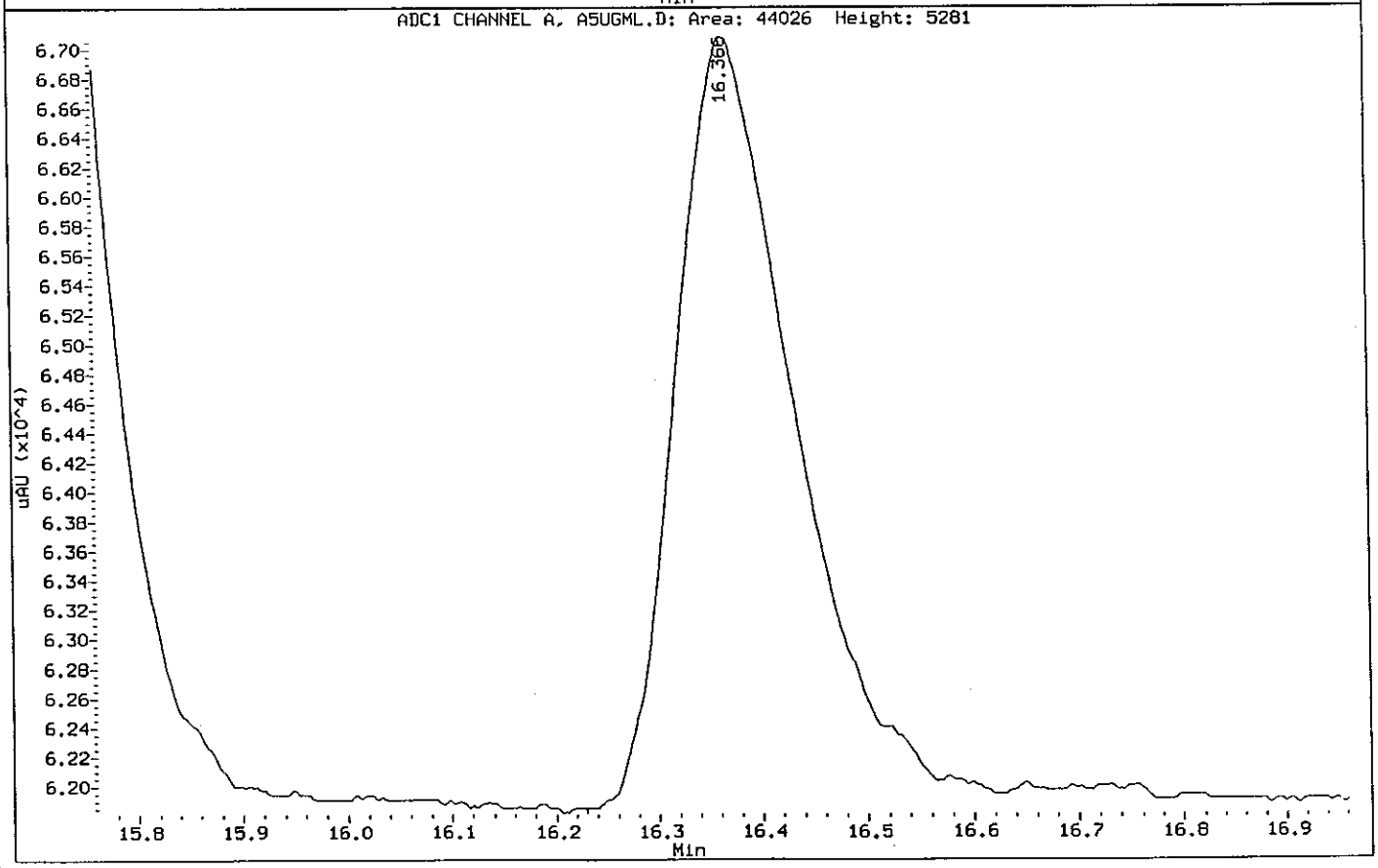
Data File: \\SVHPLC\ee\chem\slc02.i\RECAL0920A.B\A5UGML.D
Injection Date: 20-SEP-2001 18:48
Instrument: slc02.i
Client Sample ID: A5UGML

Compound: Anthracene
CAS Number: 120-12-7

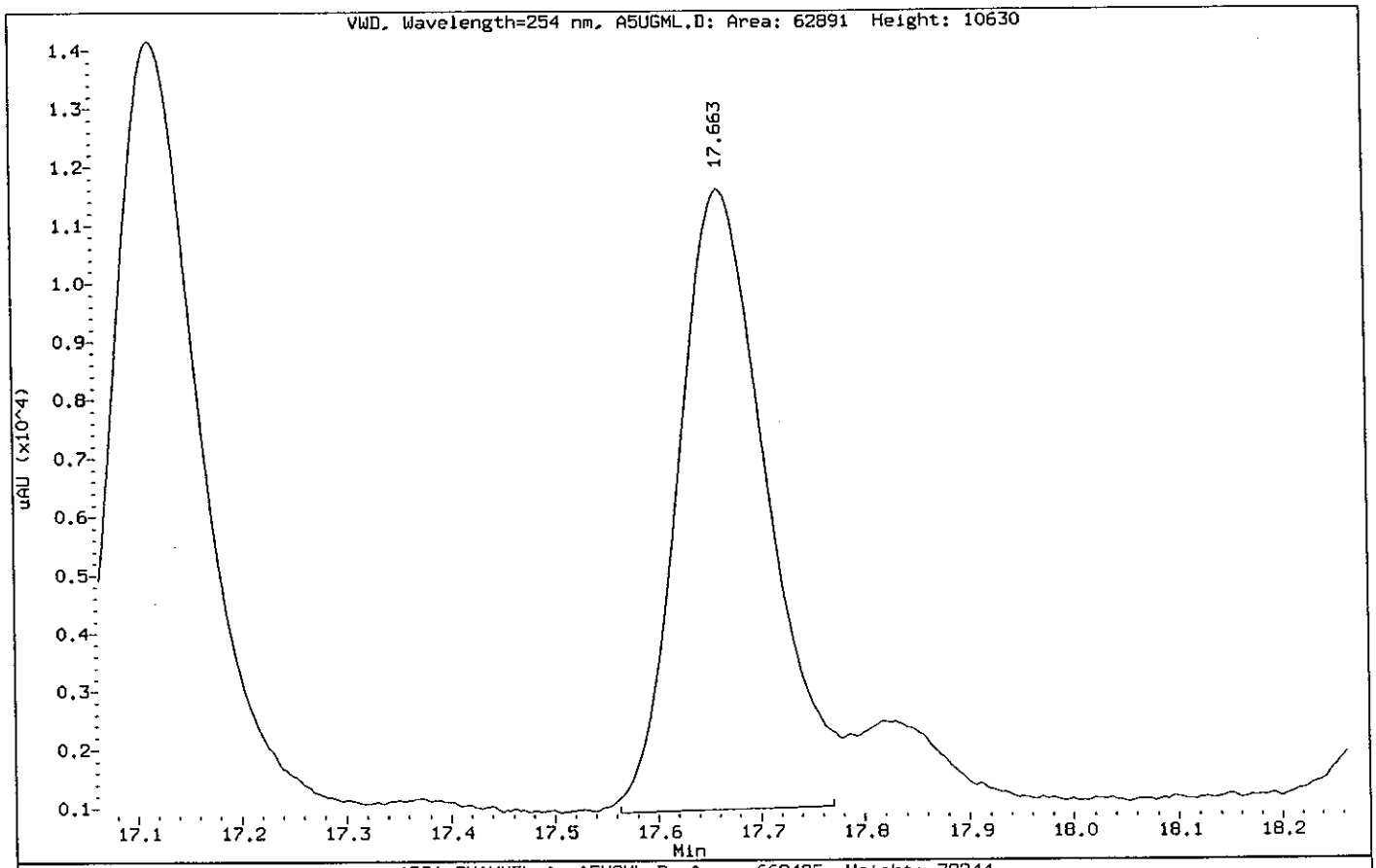


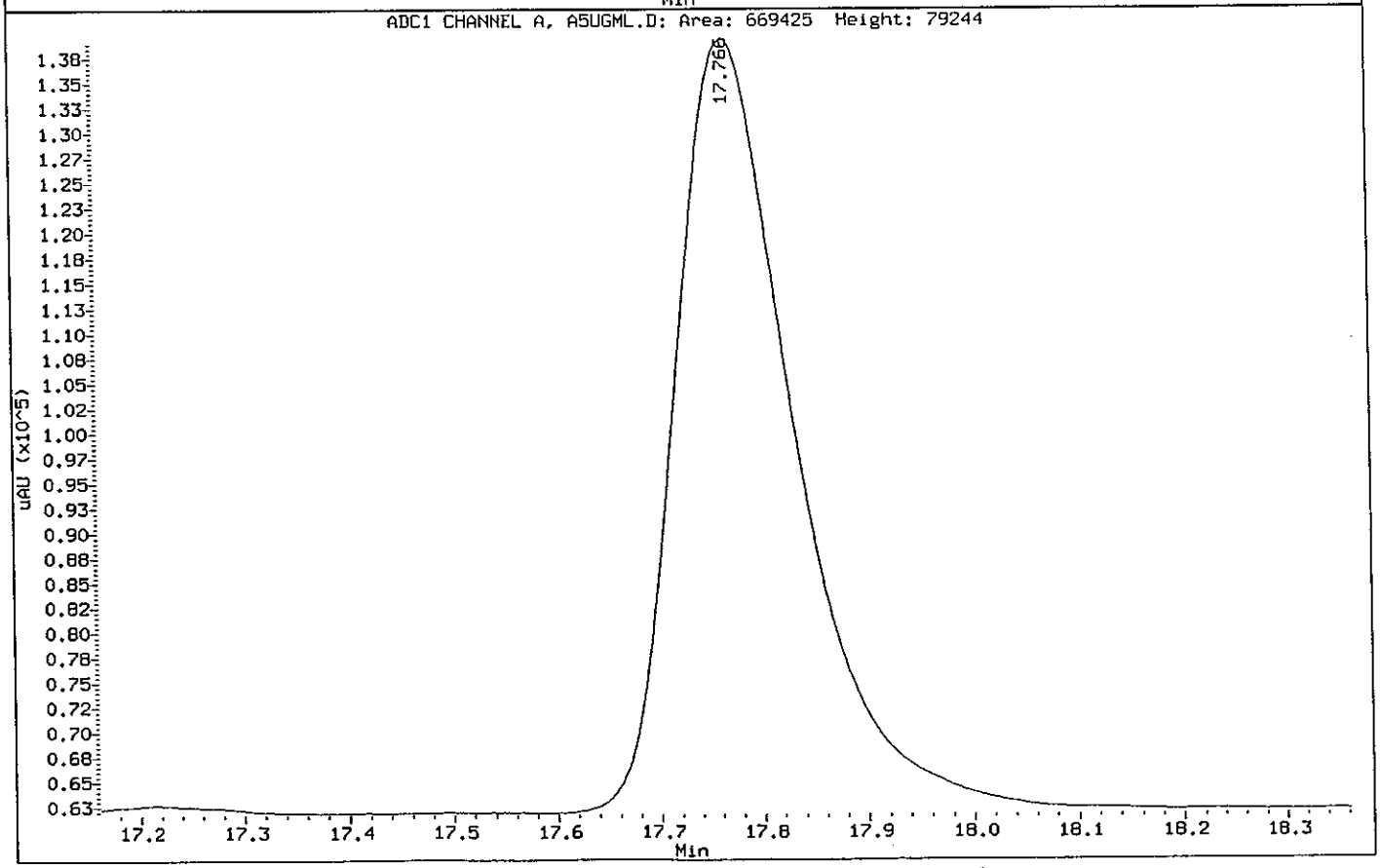


FMD

Data File: \\SVHPLC\ee\chem\slc02.i\RECAL0920A.B\A5UGML.D
Injection Date: 20-SEP-2001 18:48
Instrument: slc02.i
Client Sample ID: A5UGML

Compound: Pyrene
CAS Number: 129-00-0





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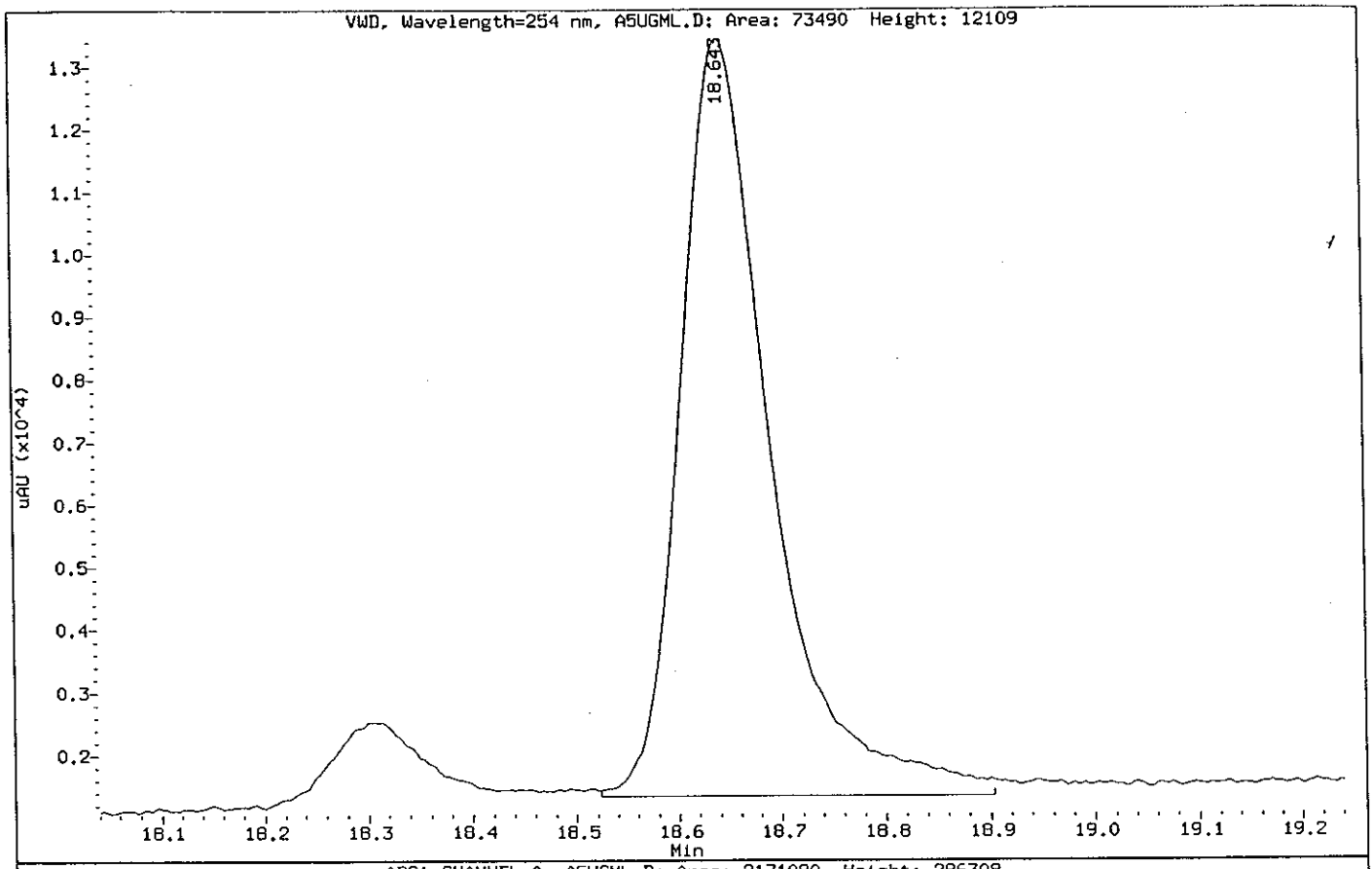
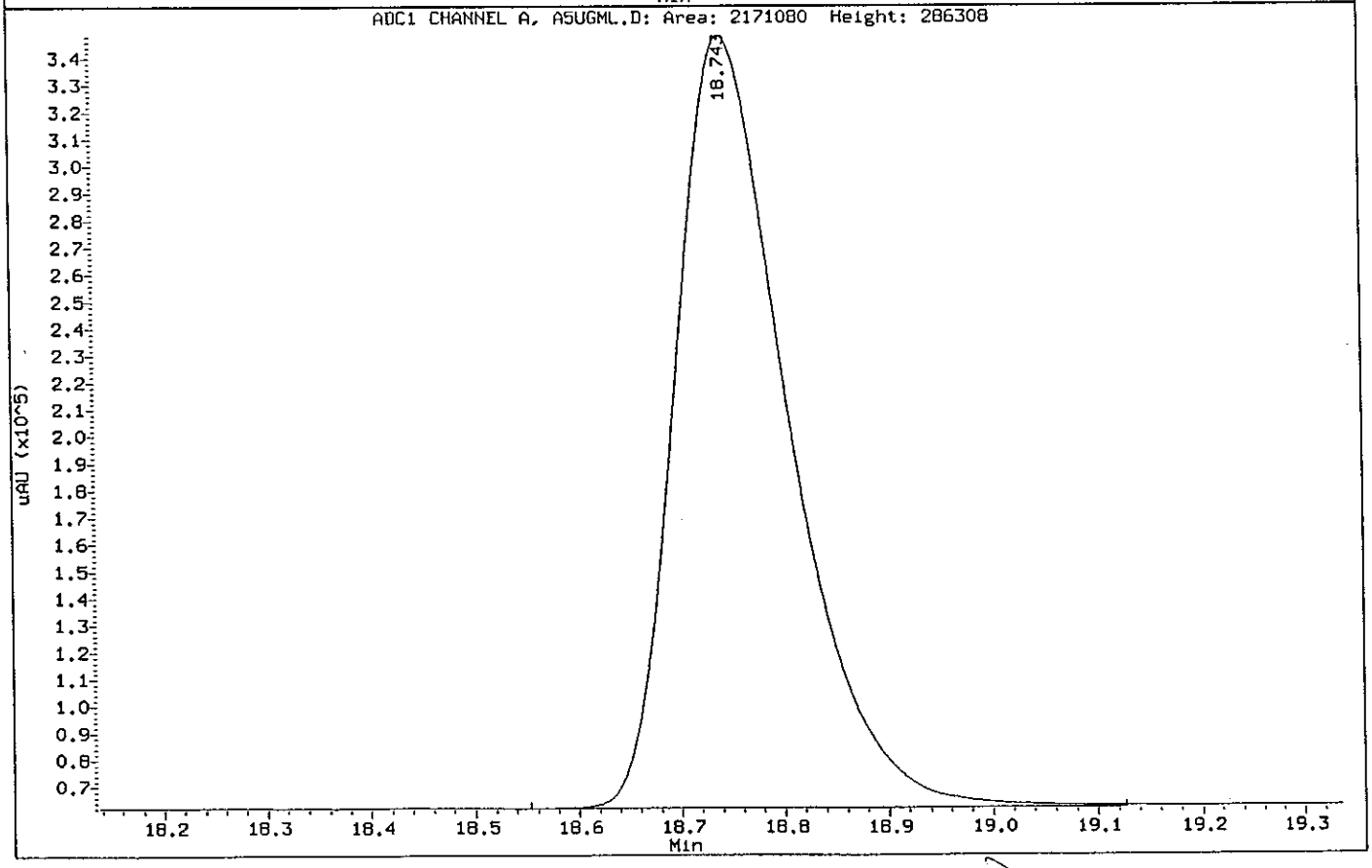
Data File: \\SVHPLC\ee\chem\slc02.i\RECAL0920A.B\A5UGML.D
Injection Date: 20-SEP-2001 18:48
Instrument: slc02.i
Client Sample ID: A5UGML

Compound: p-Terphenyl-d14 (SURR)
CAS Number: 1718-51-0





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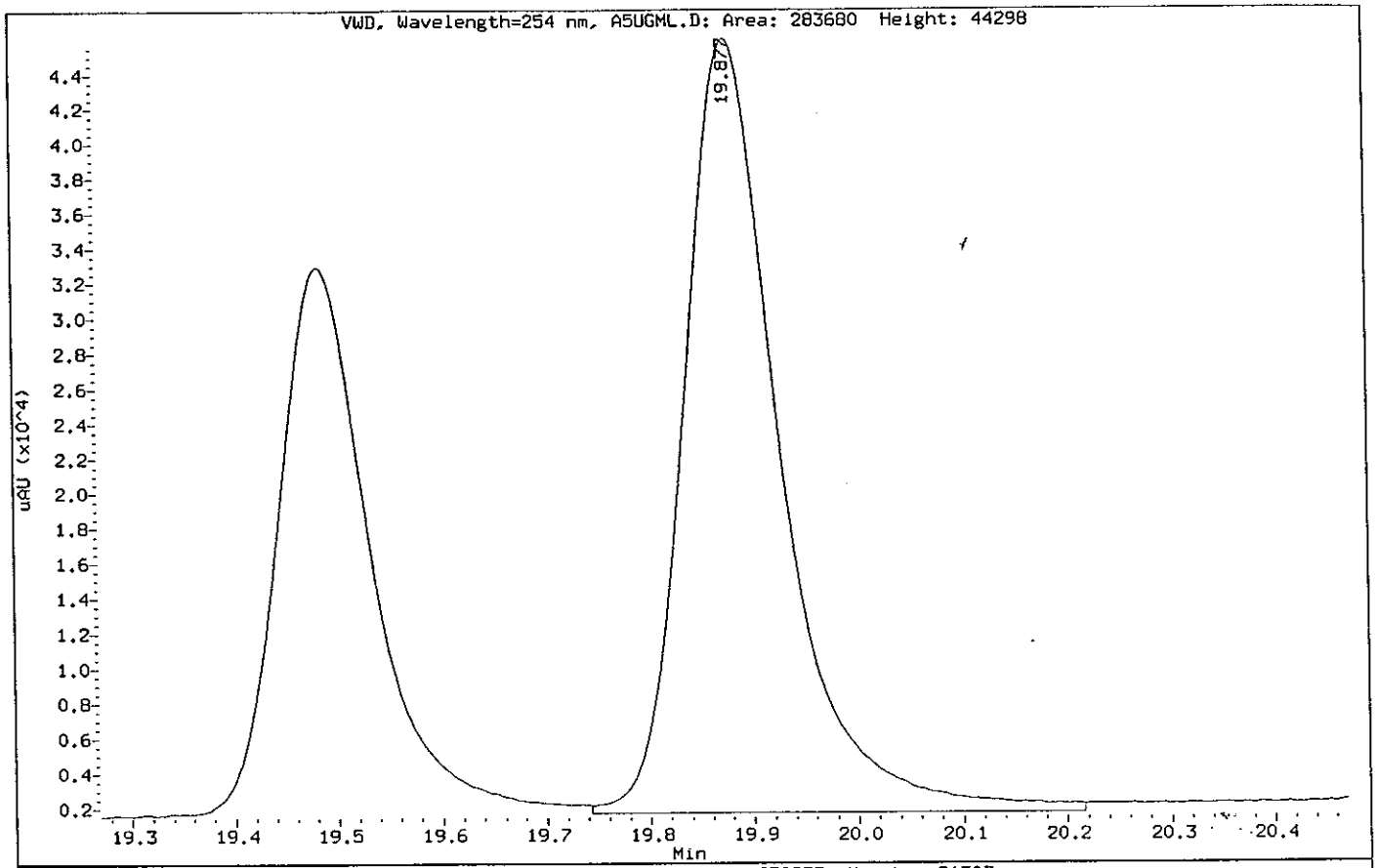
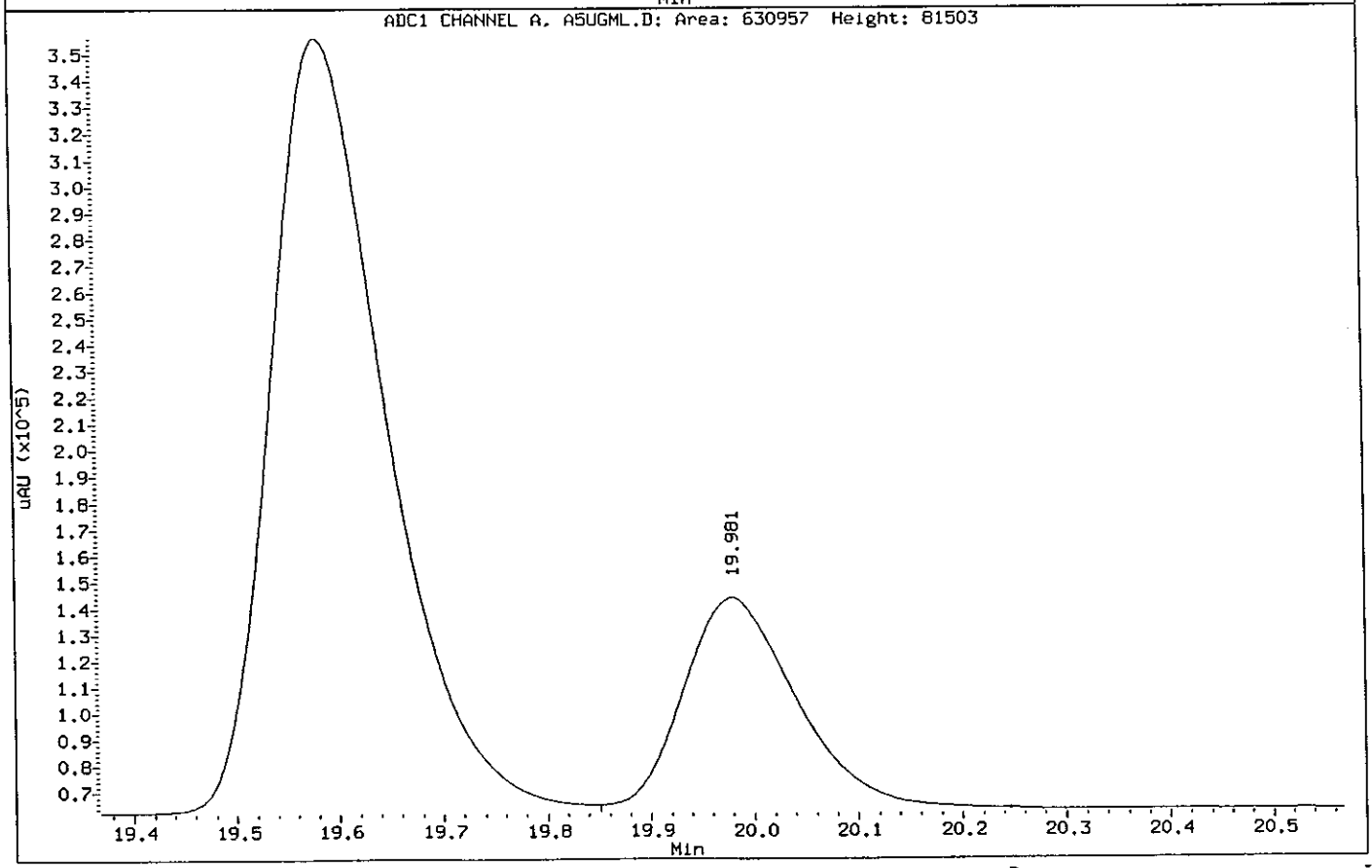
Data File: \\SVHPLC\ee\chem\slc02.i\RECAL0920A.B\A5UGML.D
Injection Date: 20-SEP-2001 18:48
Instrument: slc02.i
Client Sample ID: A5UGML

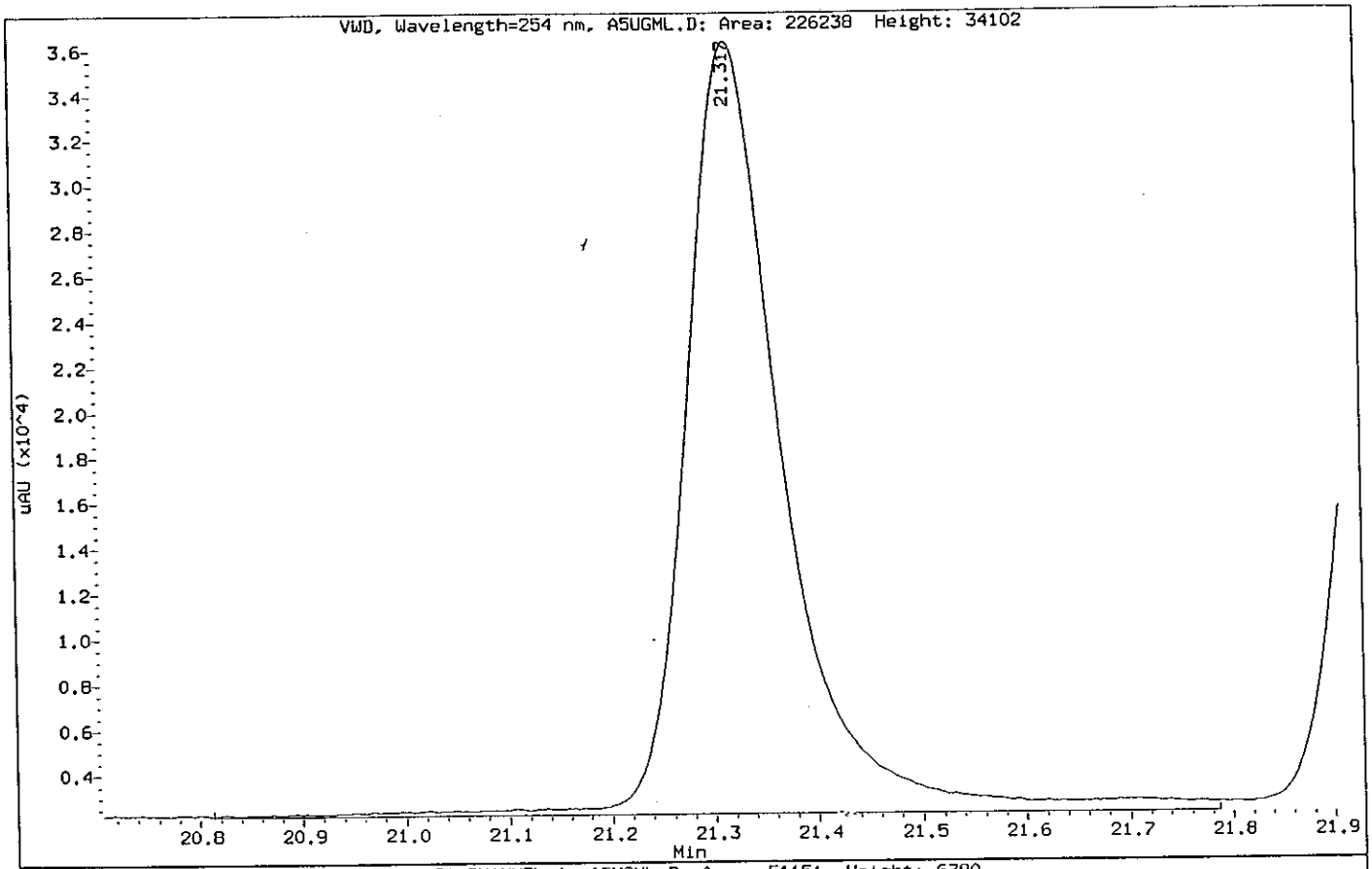
Compound: Chrysene
CAS Number: 218-01-9

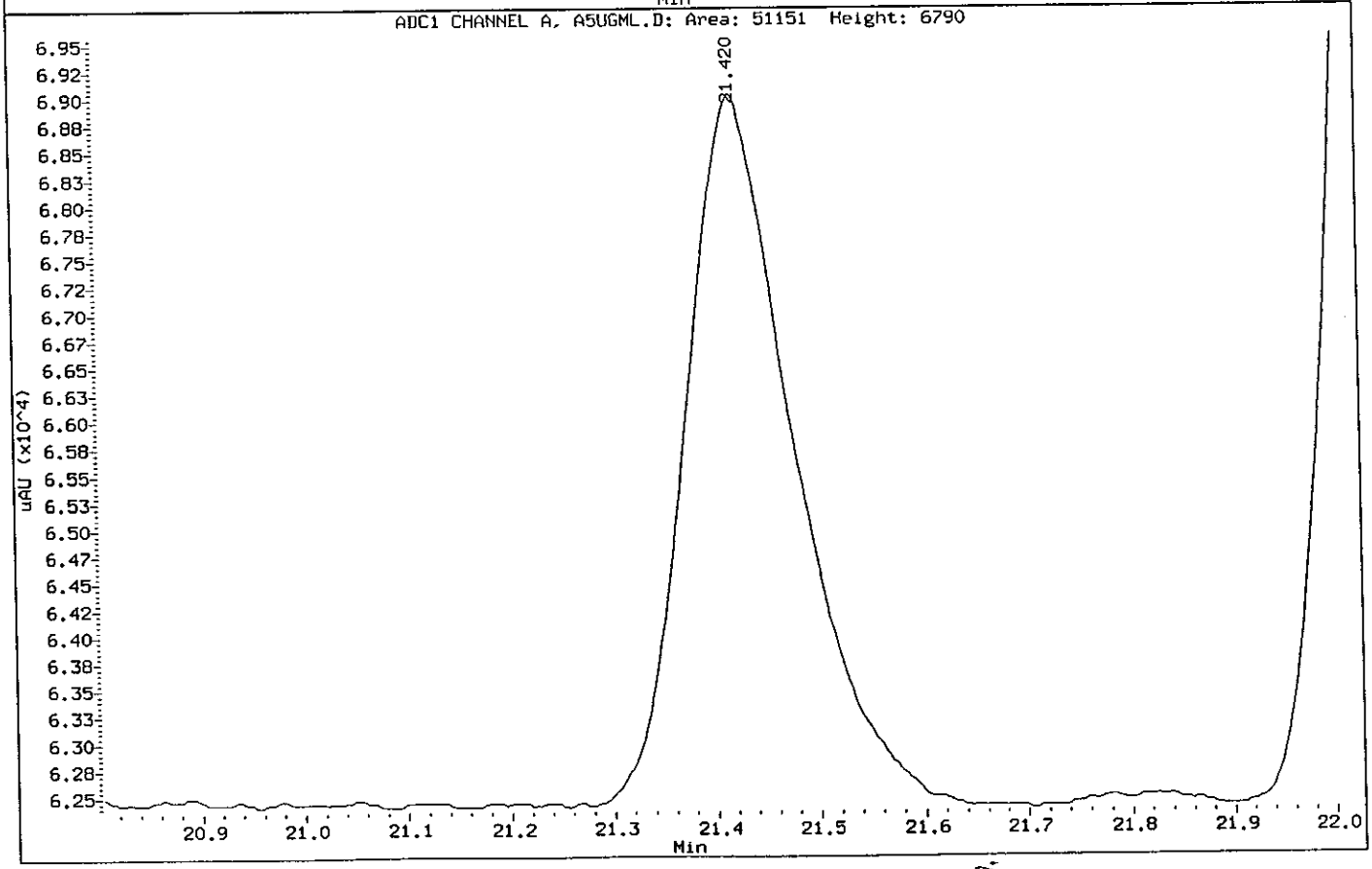




Data File: \\SVHPLC\ee\chem\slc02.i\RECAL0920A.B\A5UGML.D
Injection Date: 20-SEP-2001 18:48
Instrument: slc02.i
Client Sample ID: A5UGML

Compound: Benzo(b)Fluoranthene
CAS Number: 205-99-2





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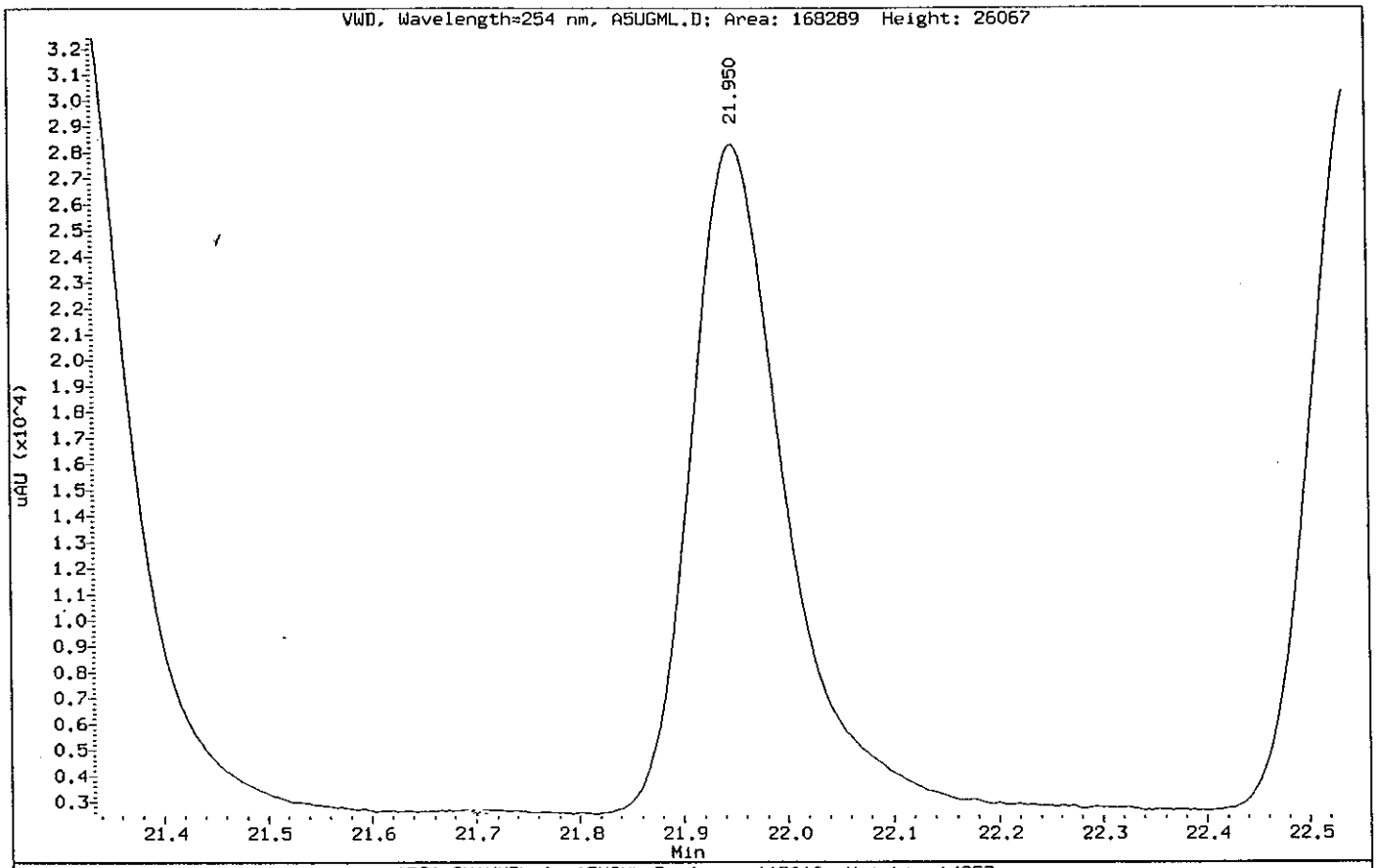
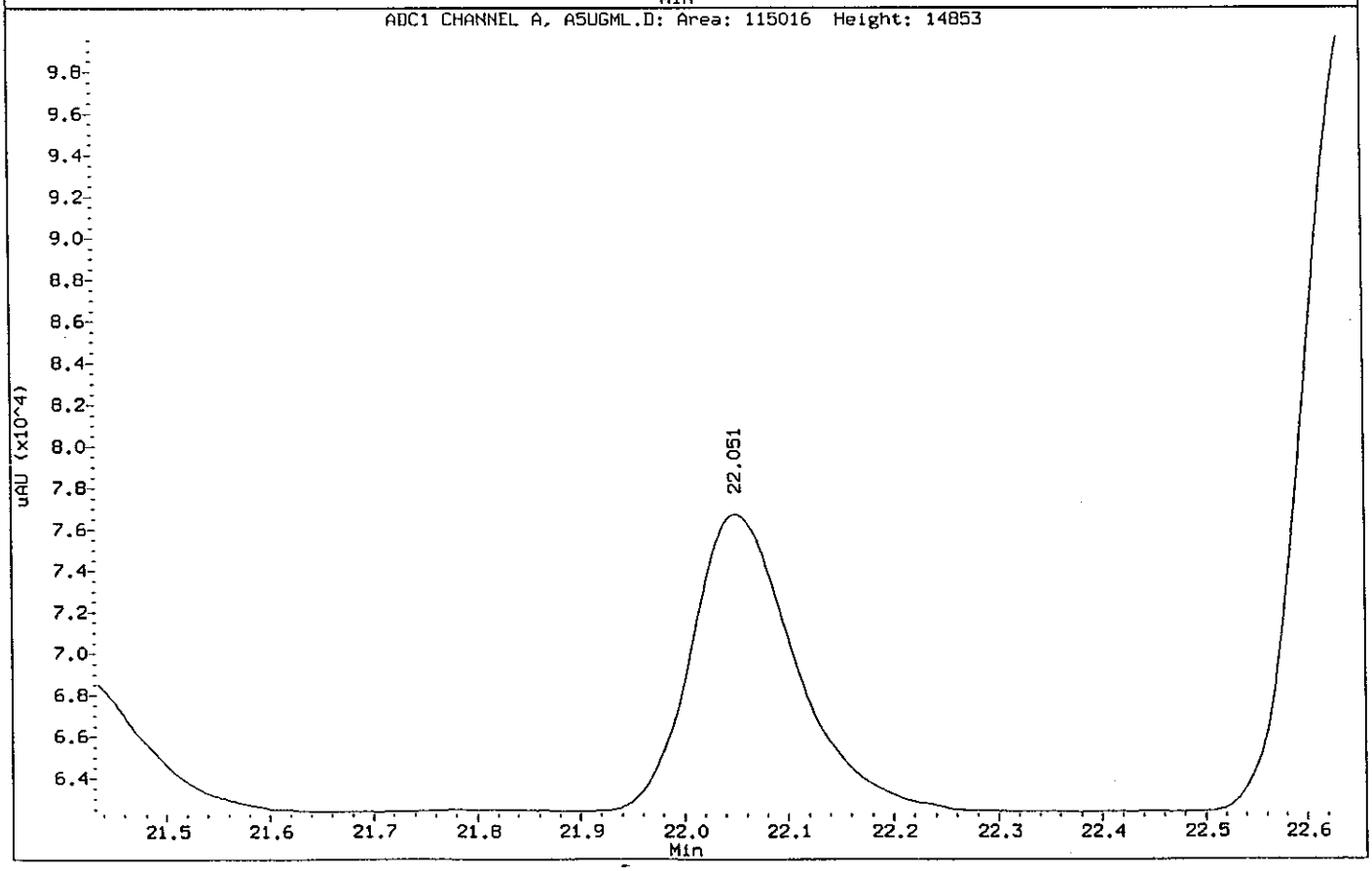
Injection Date: 20-SEP-2001 18:48
Instrument: slc02.i
Client Sample ID: A5UGML

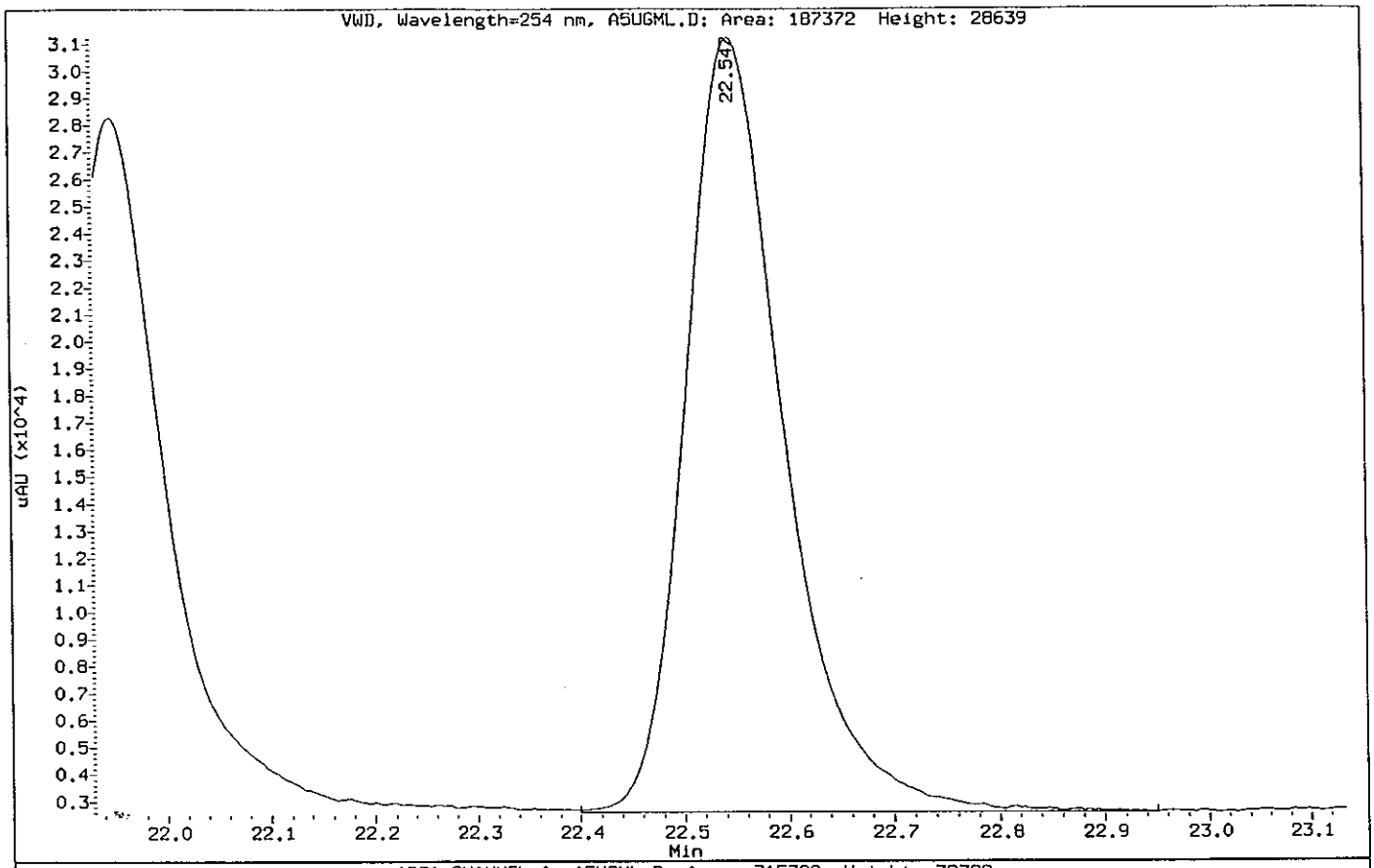
Compound: Benzo(k)Fluoranthene
CAS Number: 207-08-9

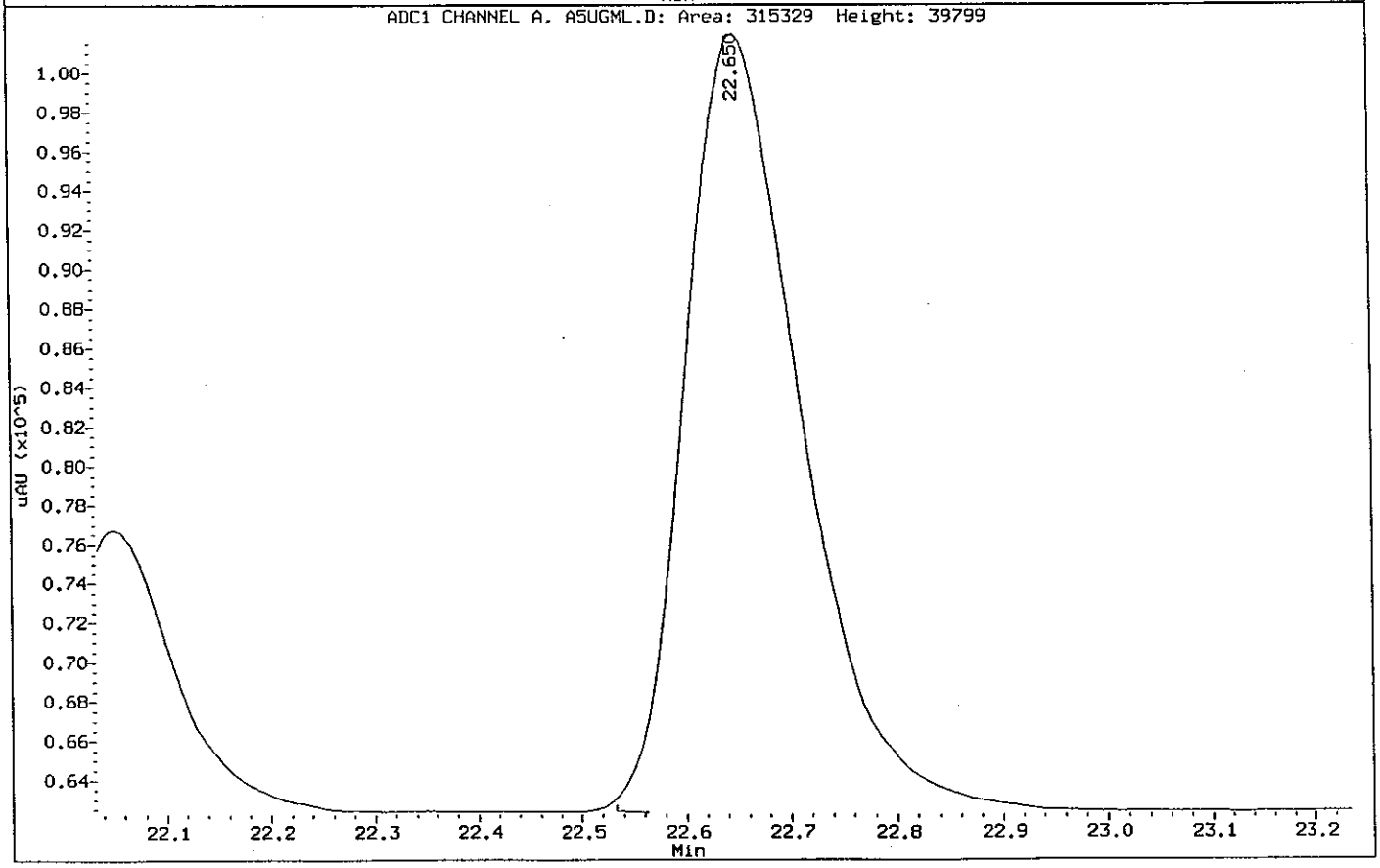




Data File: \\SVHPLC\ee\chem\slc02.i\RECAL0920A.B\A5UGML.D
Injection Date: 20-SEP-2001 18:48
Instrument: slc02.i
Client Sample ID: A5UGML

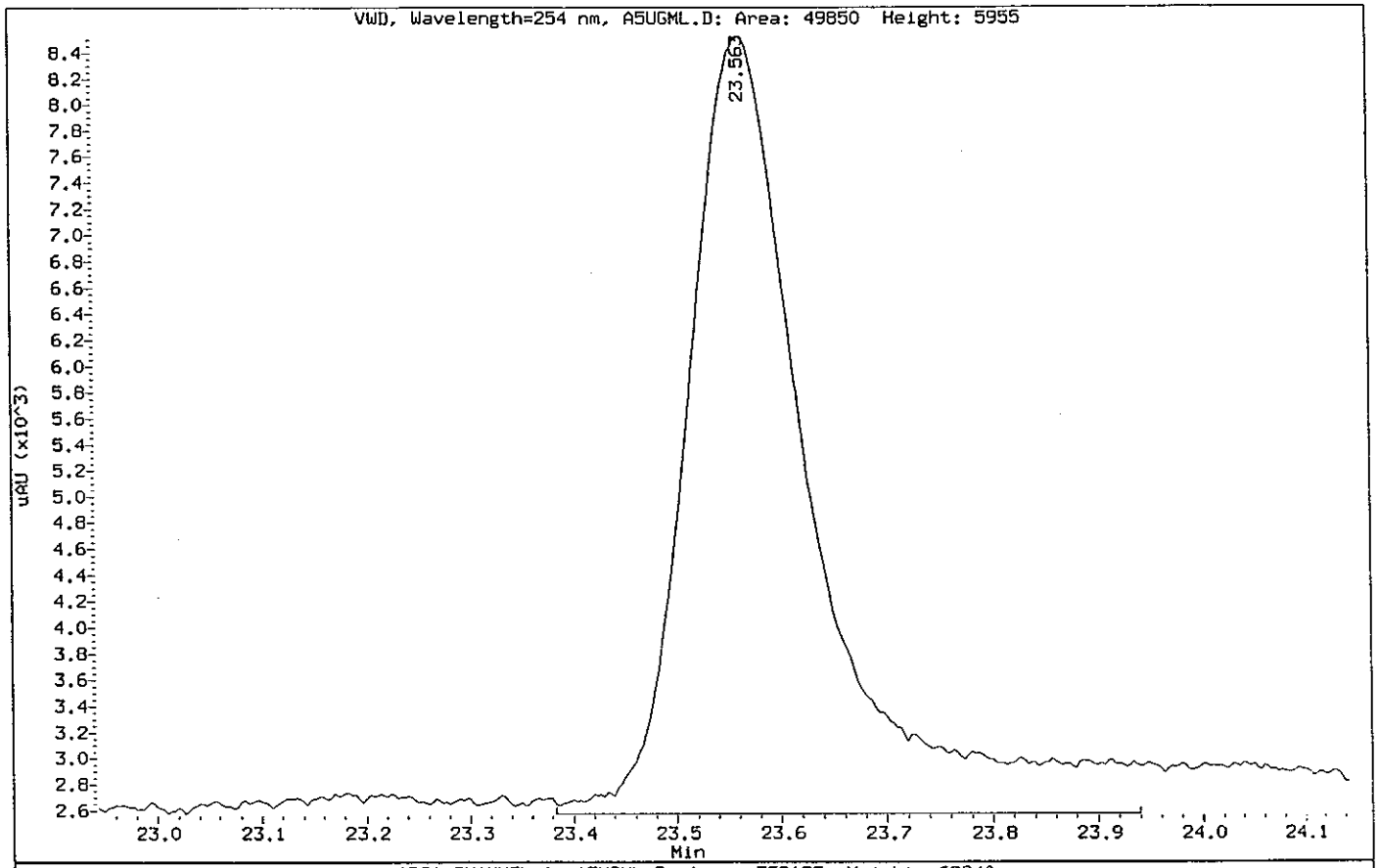
Compound: Benzo(a)pyrene
CAS Number: 50-32-8

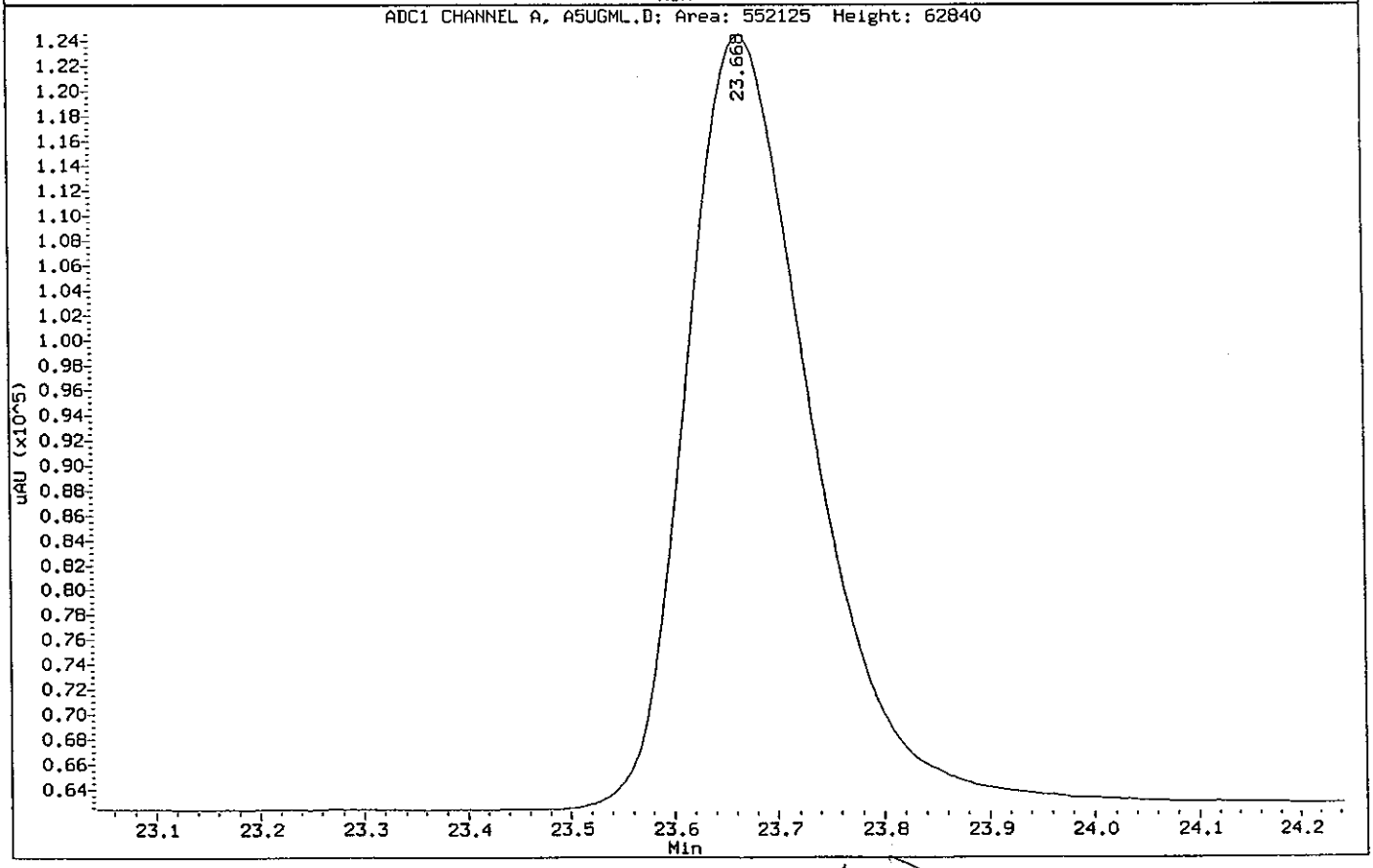




Data File: \\SVHPLC\ee\chem\slc02.i\RECAL0920A.B\A5UGML.D
Injection Date: 20-SEP-2001 18:48
Instrument: slc02.i
Client Sample ID: A5UGML

Compound: Dibenz(ah)Anthracene
CAS Number: 53-70-3





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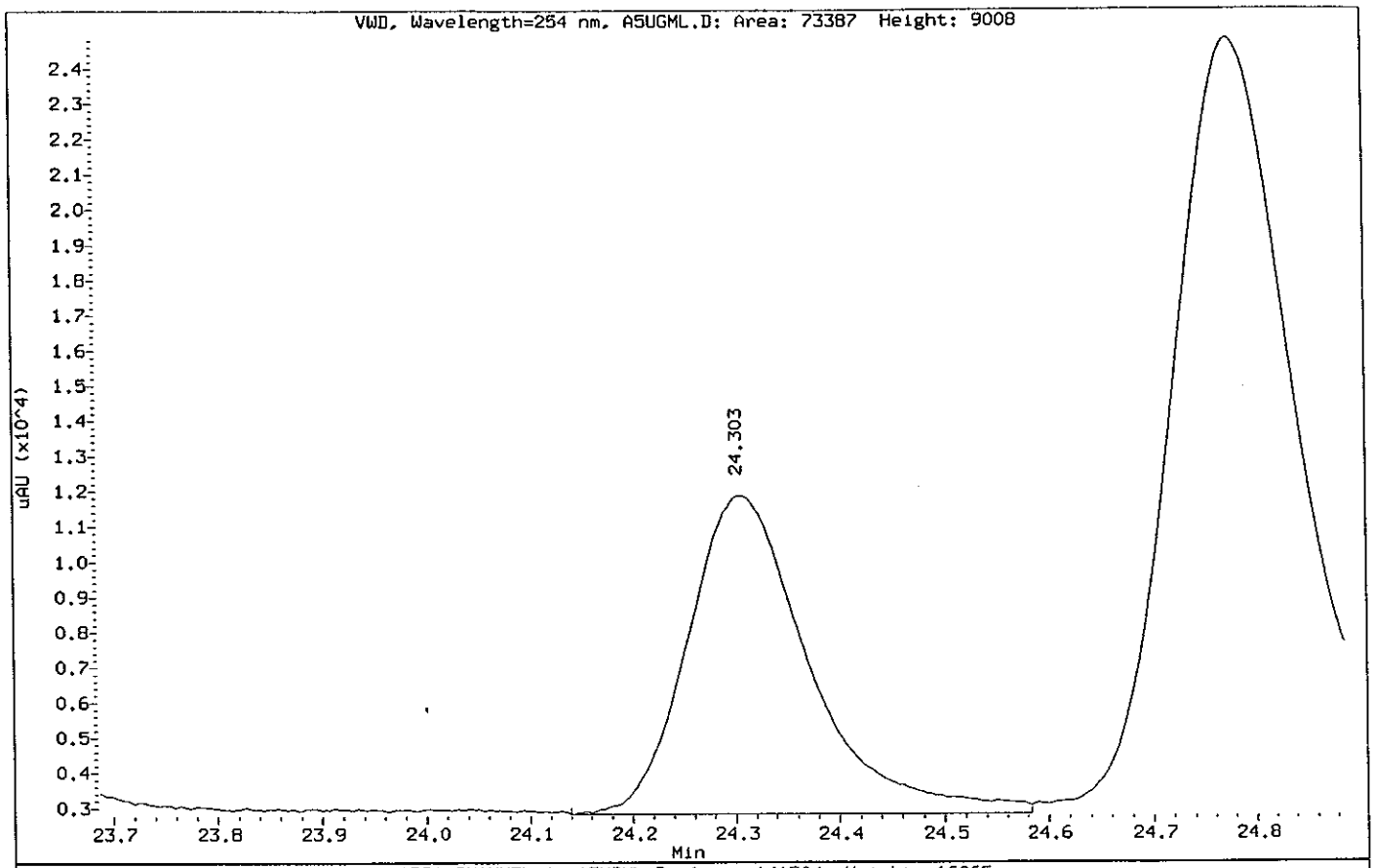
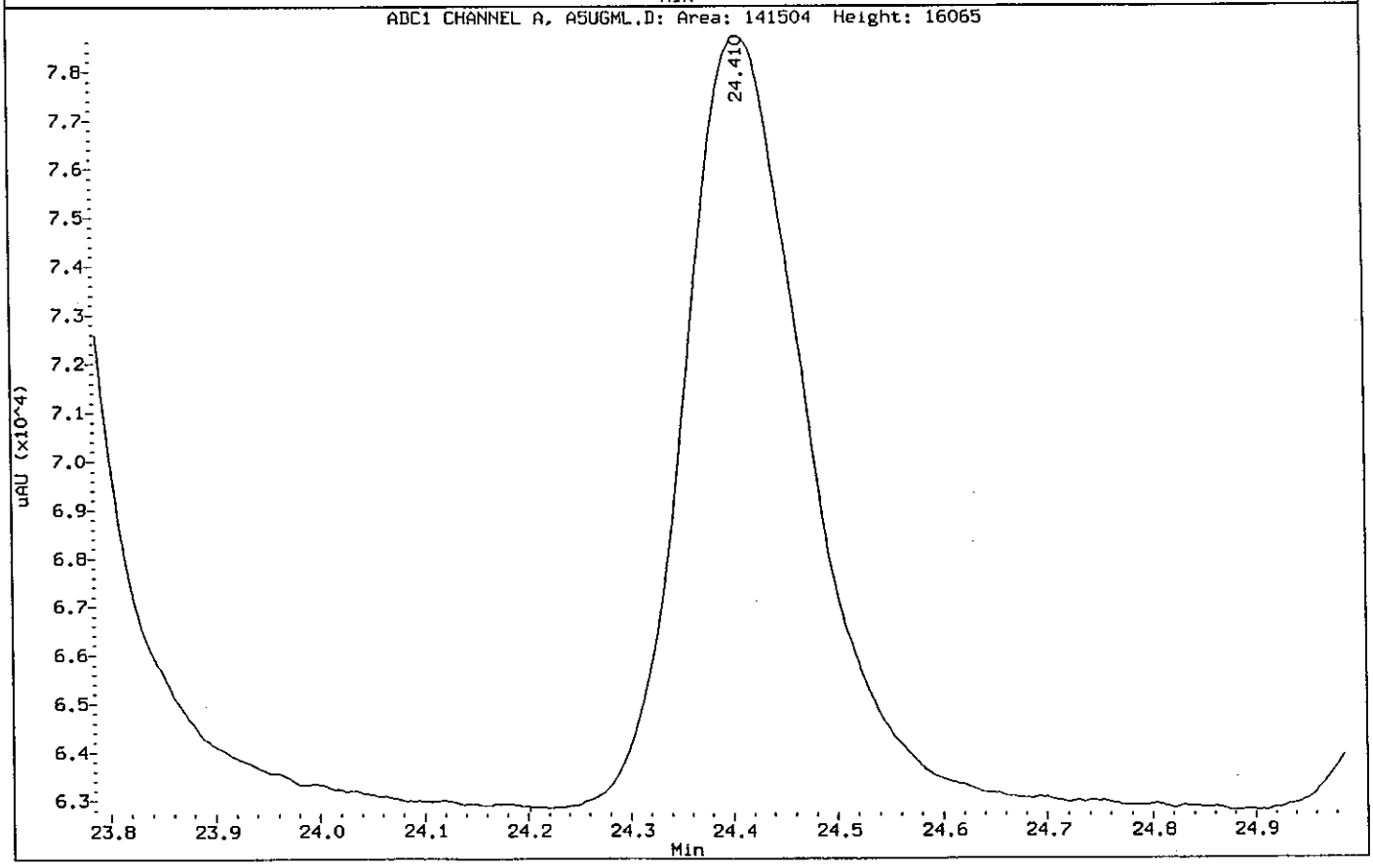
Injection Date: 20-SEP-2001 18:48
Instrument: slc02.i
Client Sample ID: A5UGML

Compound: Benzo(ghi)Perylene
CAS Number: 191-24-2

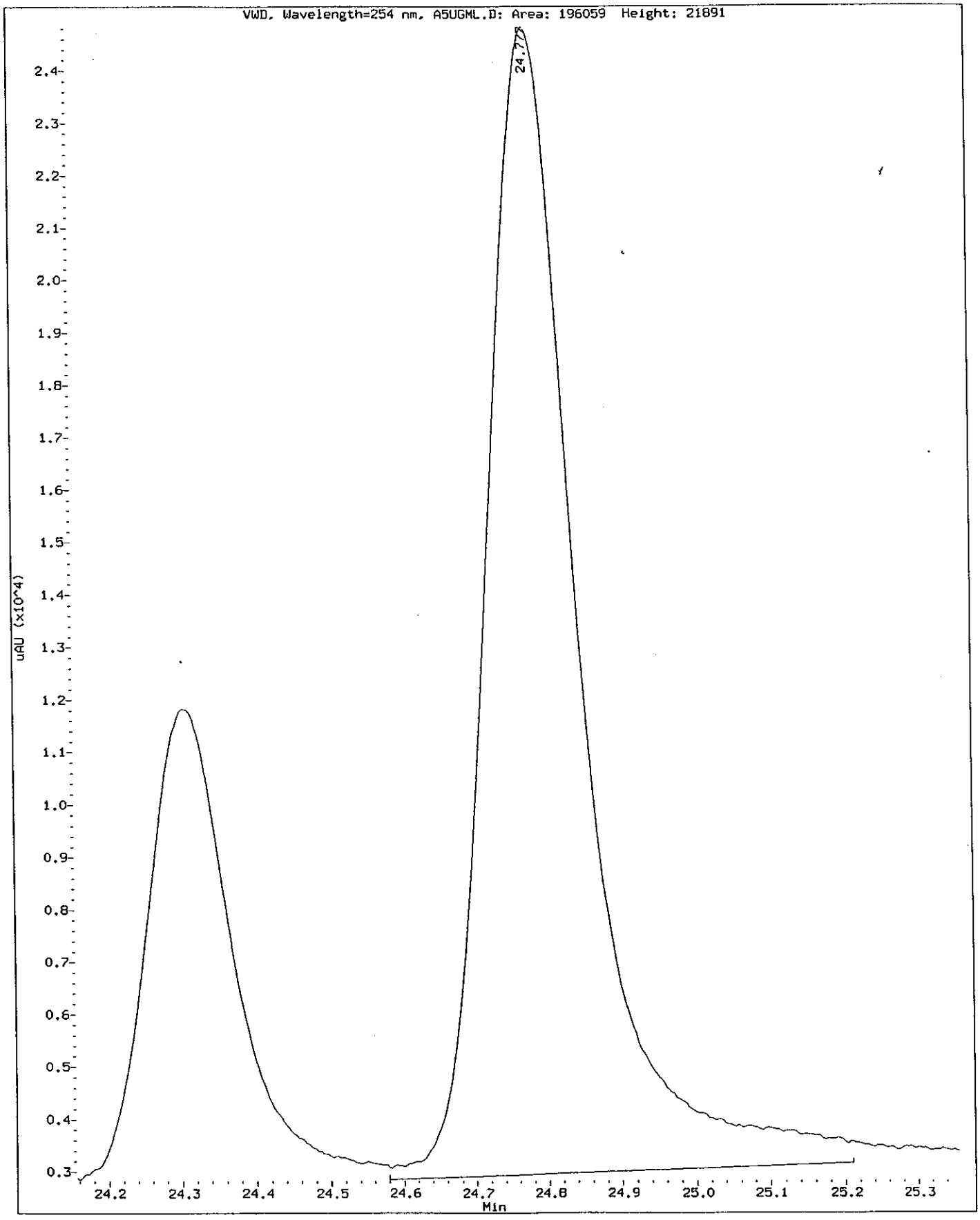




JMP

Data File: \\SVHPLC\ee\chem\slc02.i\RECAL0920A.B\A5UGML.D
Injection Date: 20-SEP-2001 18:48
Instrument: slc02.i
Client Sample ID: A5UGML

Compound: Indeno(123cd)Pyrene
CAS Number: 193-39-5



PEL Laboratories

Data file : \\SVHPLC\ee\chem\slc02.i\RECAL0920A.B\APT2UGML.D
Lab Smp Id: 0.2st2856 Client Smp ID: APT2UGML
Inj Date : 20-SEP-2001 17:29
Operator : rood Inst ID: slc02.i
Smp Info : 0.2st2856
Misc Info :
Comment :
Method : \\SVHPLC\ee\chem\slc02.i\RECAL0920A.B\8310A.m
Meth Date : 01-Nov-2001 10:22 rrood Quant Type: ISTD
Cal Date : 20-SEP-2001 13:58 Cal File: A30UGML.D
Als bottle: 7 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.04 Sample Matrix: WATER
Processing Host: SVHPLC

Concentration Formula: Amt * DF * 1/(Vo/1000)*Vt

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume Extracted
Vt	1.000	

					AMOUNTS CAL-AMT	ON-COL		
RT	EXP RT	REL RT	SIGNAL	RESPONSE	(ug/ml)	(ug/ml)	TARGET RANGE	RATIO
* 1 Carbazole (ISTD)						CAS #: 86-74-8		
10.660	10.676	(1.000)	VWD1A	246167			80.00- 120.00	100.00(M)
10.752	10.764	(1.009)	ADC1A	2157491	10.0000		707.26-1060.89	876.43
2 Naphthalene						CAS #: 91-20-3		
11.816	11.843	(1.109)	VWD1A	1061	0.20000	0.19	80.00- 120.00	100.00(M)
11.893	11.934	(1.116)	ADC1A	1114	0.20000	0.19	77.24- 115.86	105.00
3 Acenaphthylene						CAS #: 208-96-8		
13.046	13.076	(1.224)	VWD1A	797	0.20000	0.19		(M)
4 1-Methyl naphthalene						CAS #: 90-12-0		
13.686	13.703	(1.284)	VWD1A	634	0.20000	0.19	80.00- 120.00	100.00(M)
13.793	13.798	(1.294)	ADC1A	2753	0.20000	0.21	315.83- 473.75	434.23

RT	EXP RT	REL RT	SIGNAL	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
5 2-Methyl naphthalene						CAS #: 91-57-6		
14.030	14.036	(1.316)	VWD1A	881	0.20000	0.19	80.00- 120.00	100.00(aM)
14.098	14.131	(1.323)	ADC1A	2433	0.20000	0.21	160.98- 241.47	276.16
6 Acenaphthene						CAS #: 83-32-9		
14.370	14.376	(1.348)	VWD1A	506	0.20000	0.22	80.00- 120.00	100.00(M)
14.463	14.466	(1.357)	ADC1A	5960	0.20000	0.22	841.01-1261.52	1177.87
7 Fluorene						CAS #: 86-73-7		
14.723	14.736	(1.381)	VWD1A	5155	0.20000	0.20	80.00- 120.00	100.00(M)
14.807	14.826	(1.389)	ADC1A	613	0.20000	0.20	9.84- 14.77	11.89
8 Phenanthrene						CAS #: 85-01-8		
15.540	15.546	(1.458)	VWD1A	14945	0.20000	0.21	80.00- 120.00	100.00(M)
15.637	15.639	(1.467)	ADC1A	13048	0.20000	0.19	72.60- 108.90	87.31
9 Anthracene						CAS #: 120-12-7		
16.263	16.270	(1.526)	VWD1A	57763			80.00- 120.00	100.00(M)
16.357	16.361	(1.534)	ADC1A	2154	0.20000	0.22	4.32- 6.48	3.73
10 Fluoranthene						CAS #: 206-44-0		
17.113	17.116	(1.605)	VWD1A	3548	0.20000	0.21	80.00- 120.00	100.00(M)
17.262	17.216	(1.619)	ADC1A	254	0.20000	0.19	6.09- 9.13	7.16
11 Pyrene						CAS #: 129-00-0		
17.653	17.663	(1.656)	VWD1A	2696	0.20000	0.21	80.00- 120.00	100.00(M)
17.752	17.761	(1.665)	ADC1A	22682	0.20000	0.17	851.54-1277.31	841.32
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.640	18.640	(1.749)	VWD1A	2411	0.20000	0.16	80.00- 120.00	100.00(M)
18.728	18.736	(1.757)	ADC1A	80091	0.20000	0.18	2363.40-3545.10	3321.90
13 Benzo(a)Anthracene						CAS #: 56-55-3		
19.470	19.480	(1.826)	VWD1A	8347	0.20000	0.21	80.00- 120.00	100.00(M)
19.572	19.576	(1.836)	ADC1A	87925	0.20000	0.19	915.32-1372.98	1053.37
14 Chrysene						CAS #: 218-01-9		
19.873	19.870	(1.864)	VWD1A	11655	0.20000	0.21	80.00- 120.00	100.00(M)
19.972	19.968	(1.874)	ADC1A	27549	0.20000	0.21	177.93- 266.90	236.37
15 Benzo(b)Fluoranthene						CAS #: 205-99-2		
21.306	21.306	(1.999)	VWD1A	7727	0.20000	0.18	80.00- 120.00	100.00(M)
21.413	21.404	(2.009)	ADC1A	2535	0.20000	0.21	18.09- 27.13	32.81
16 Benzo(k)Fluoranthene						CAS #: 207-08-9		
21.933	21.936	(2.058)	VWD1A	6314	0.20000	0.19	80.00- 120.00	100.00(M)

RT	EXP RT	REL RT	SIGNAL	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
16 Benzo(k)Fluoranthene (continued)									
22.038	22.034	(2.067)	ADC1A	4293	0.20000	0.18	54.68- 82.01	67.99	
17 Benzo(a)pyrene						CAS #: 50-32-8			
22.540	22.533	(2.114)	VWD1A	7264	0.20000	0.19	80.00- 120.00	100.00	(M)
22.642	22.634	(2.124)	ADC1A	13633	0.20000	0.20	134.63- 201.95	187.68	
18 Dibenz(ah)Anthracene						CAS #: 53-70-3			
23.490	23.543	(2.204)	VWD1A	1793	0.20000	0.19	80.00- 120.00	100.00	(M)
23.643	23.643	(2.218)	ADC1A	18140	0.20000	0.16	886.06-1329.09	1011.71	
19 Benzo(ghi)Perylene						CAS #: 191-24-2			
24.313	24.286	(2.281)	VWD1A	2588			80.00- 120.00	100.00	(M)
24.378	24.388	(2.287)	ADC1A	6660	0.20000	0.20	154.26- 231.38	257.34	
20 Indeno(123cd)Pyrene						CAS #: 193-39-5			
24.776	24.756	(2.324)	VWD1A	7693	0.20000	0.19			(M)

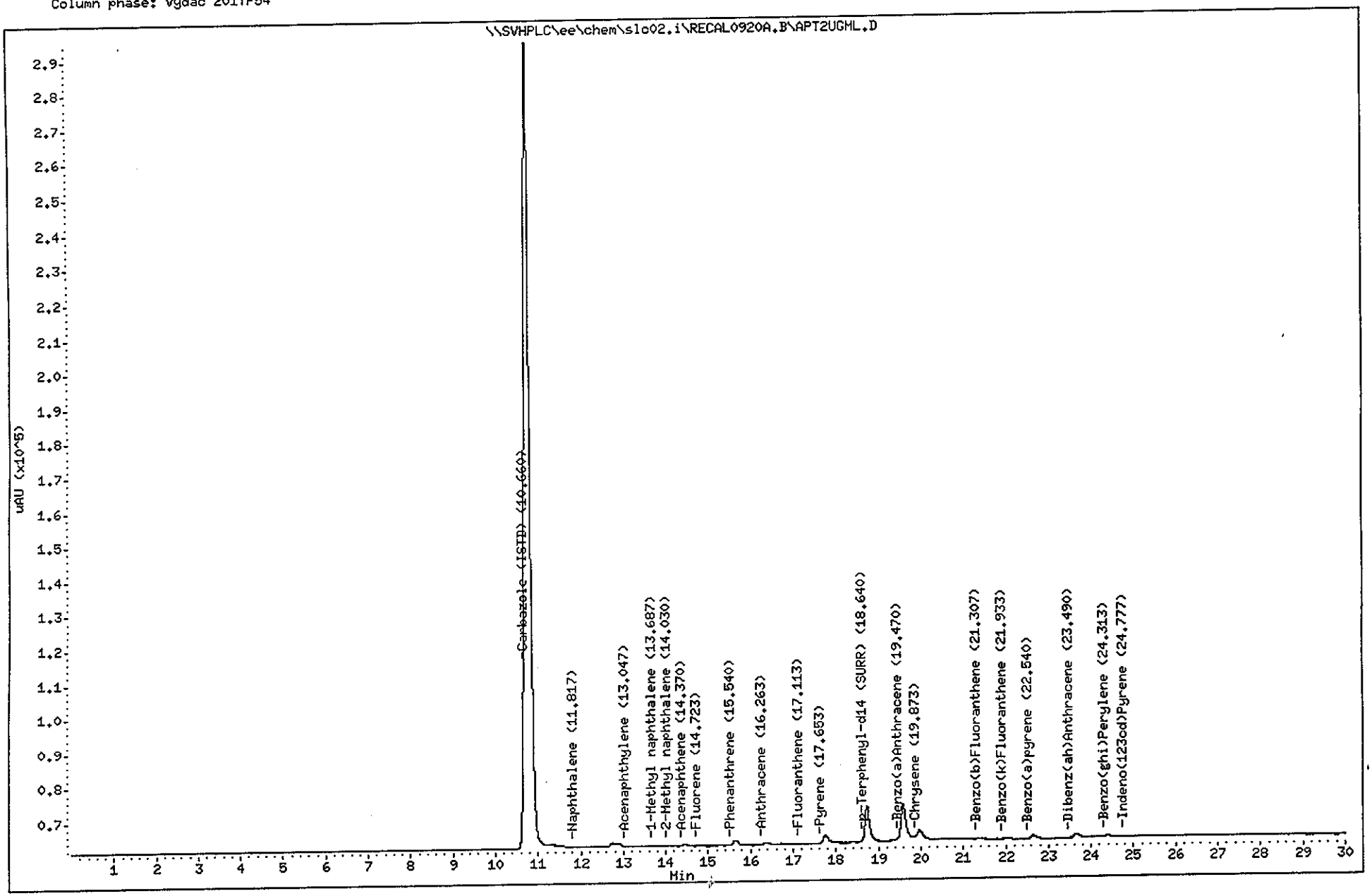
QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\SVHPLC\ee\chem\slc02.i\RECAL0920A.B\APT2UGML.D
Date : 20-SEP-2001 17:29
Client ID: APT2UGML
Sample Info: 0.2st2856
Purge Volume: 1000.0
Column phase: Vydac 201TP54

Instrument: slc02.i

Operator: rood
Column diameter: 4.60



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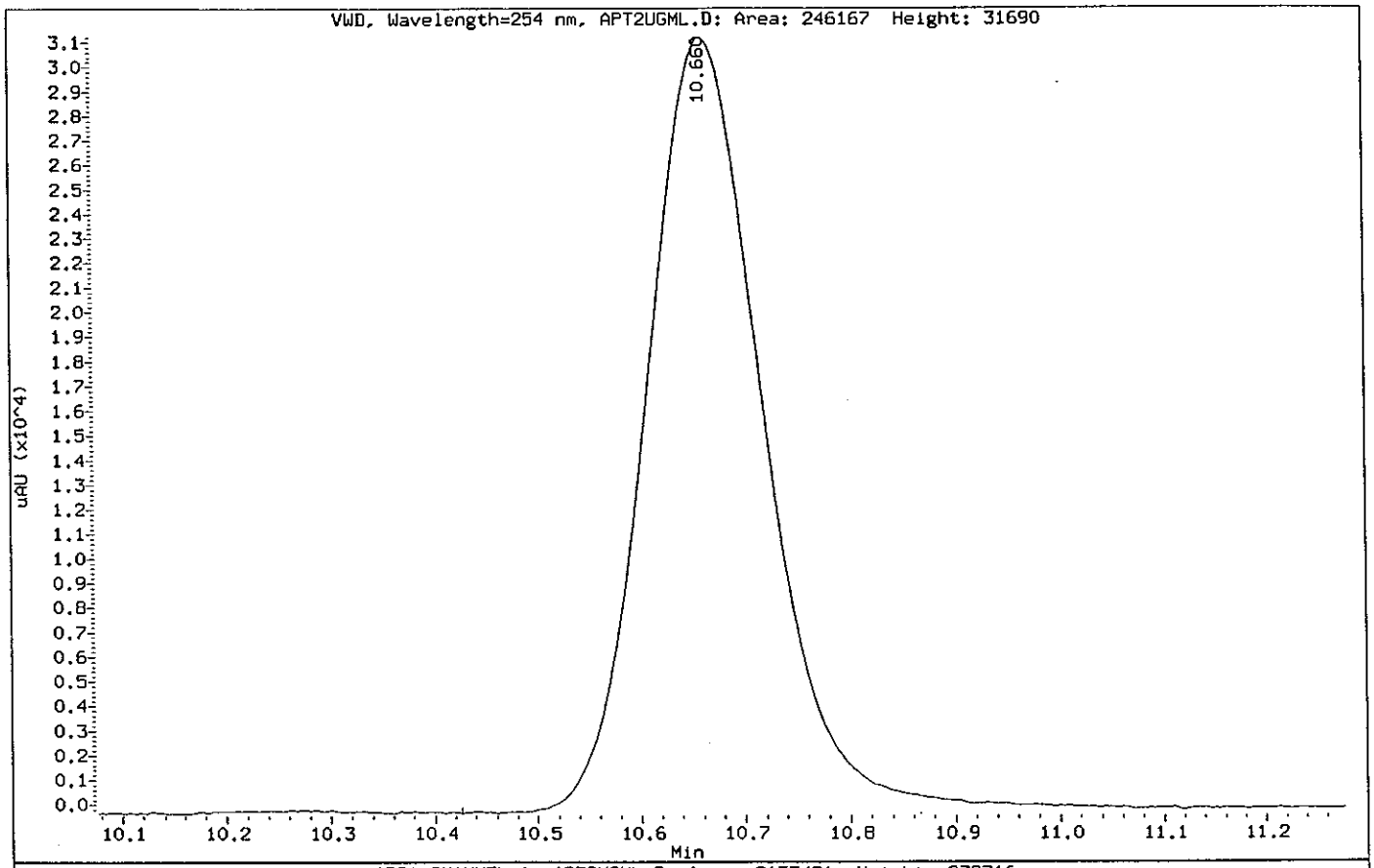
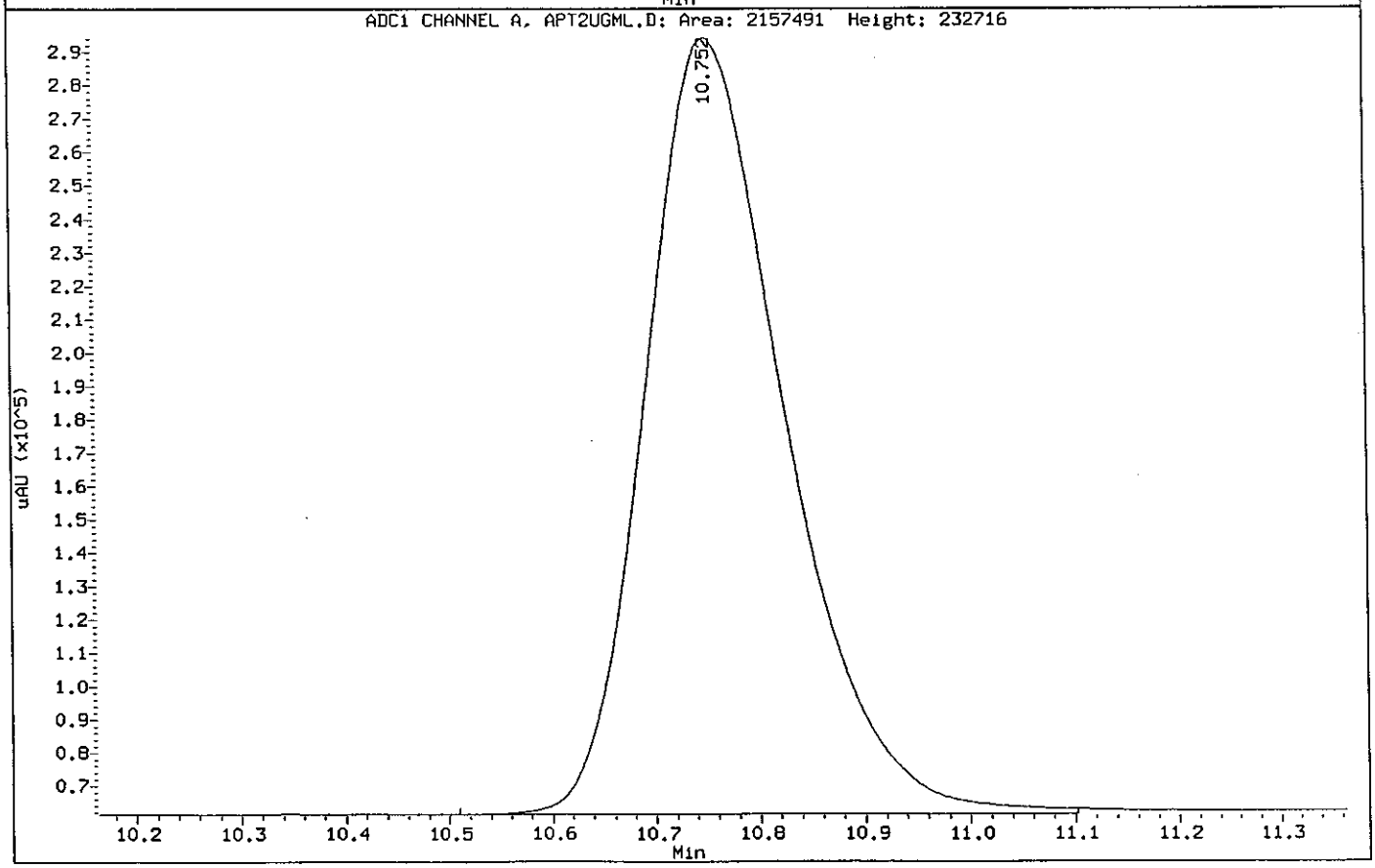
Injection Date: 20-SEP-2001 17:29
Instrument: slc02.i
Client Sample ID: APT2UGML

Compound: Carbazole (ISTD)
CAS Number: 86-74-8





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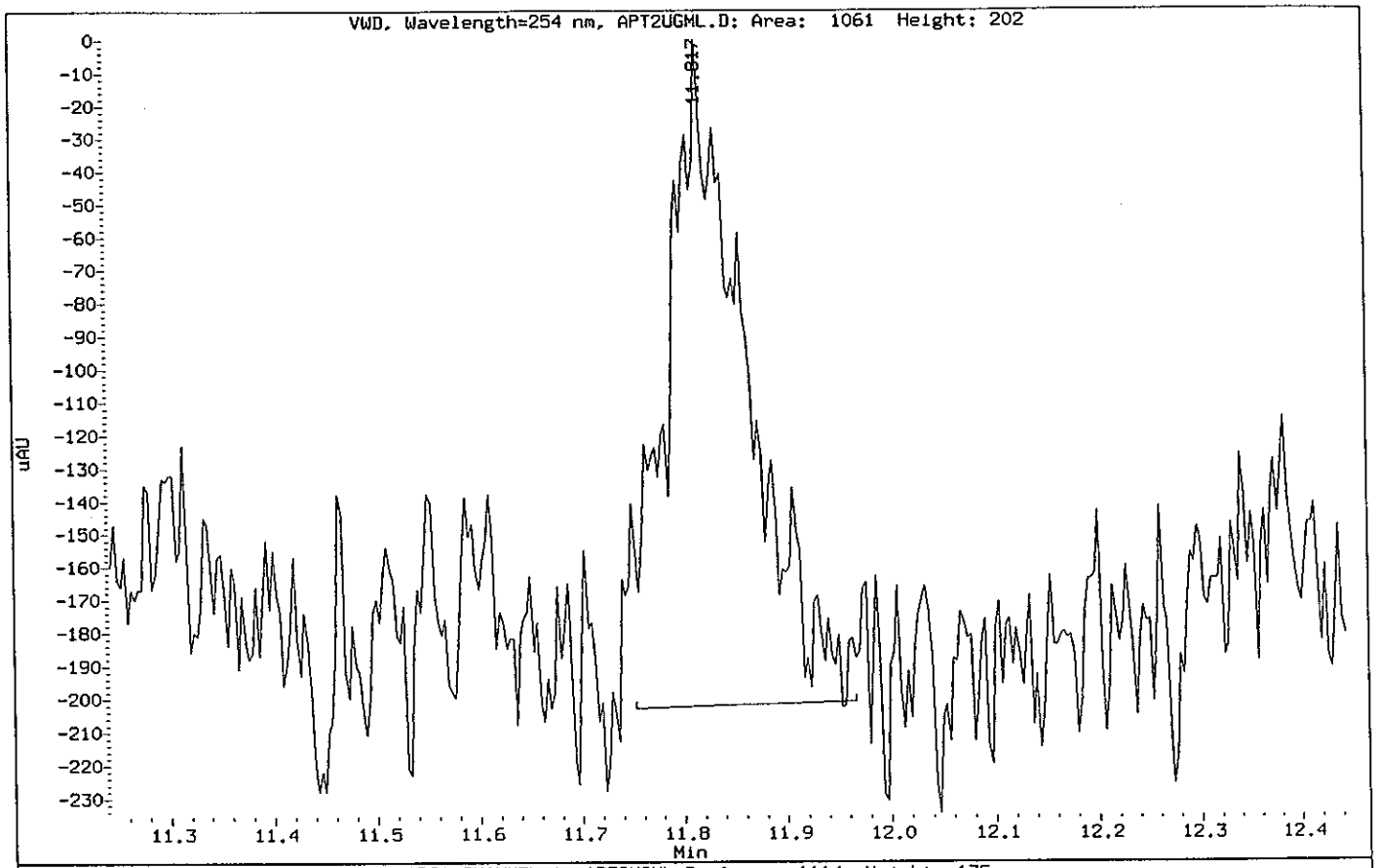
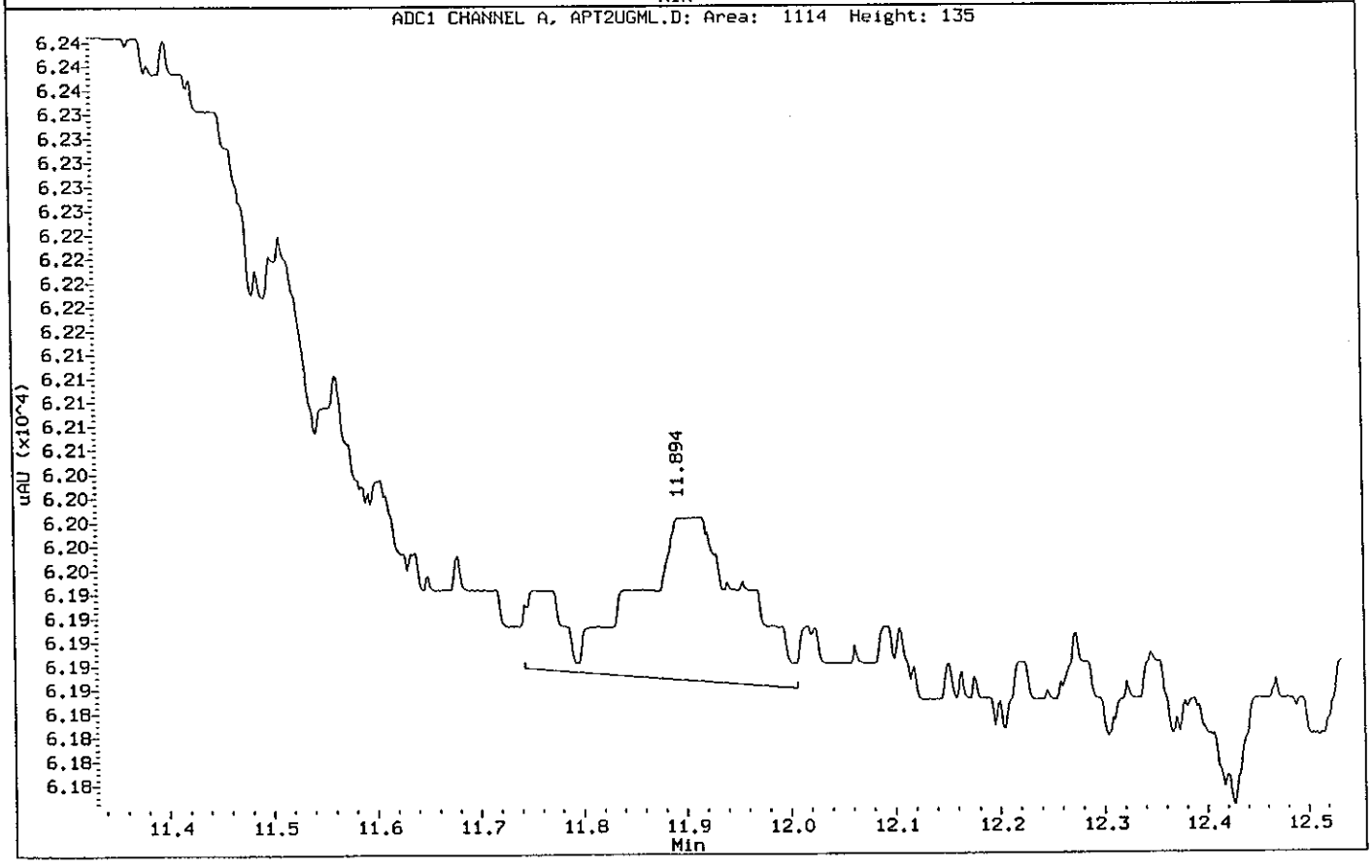
Injection Date: 20-SEP-2001 17:29
Instrument: slc02.i
Client Sample ID: APT2UGML

Compound: Naphthalene
CAS Number: 91-20-3





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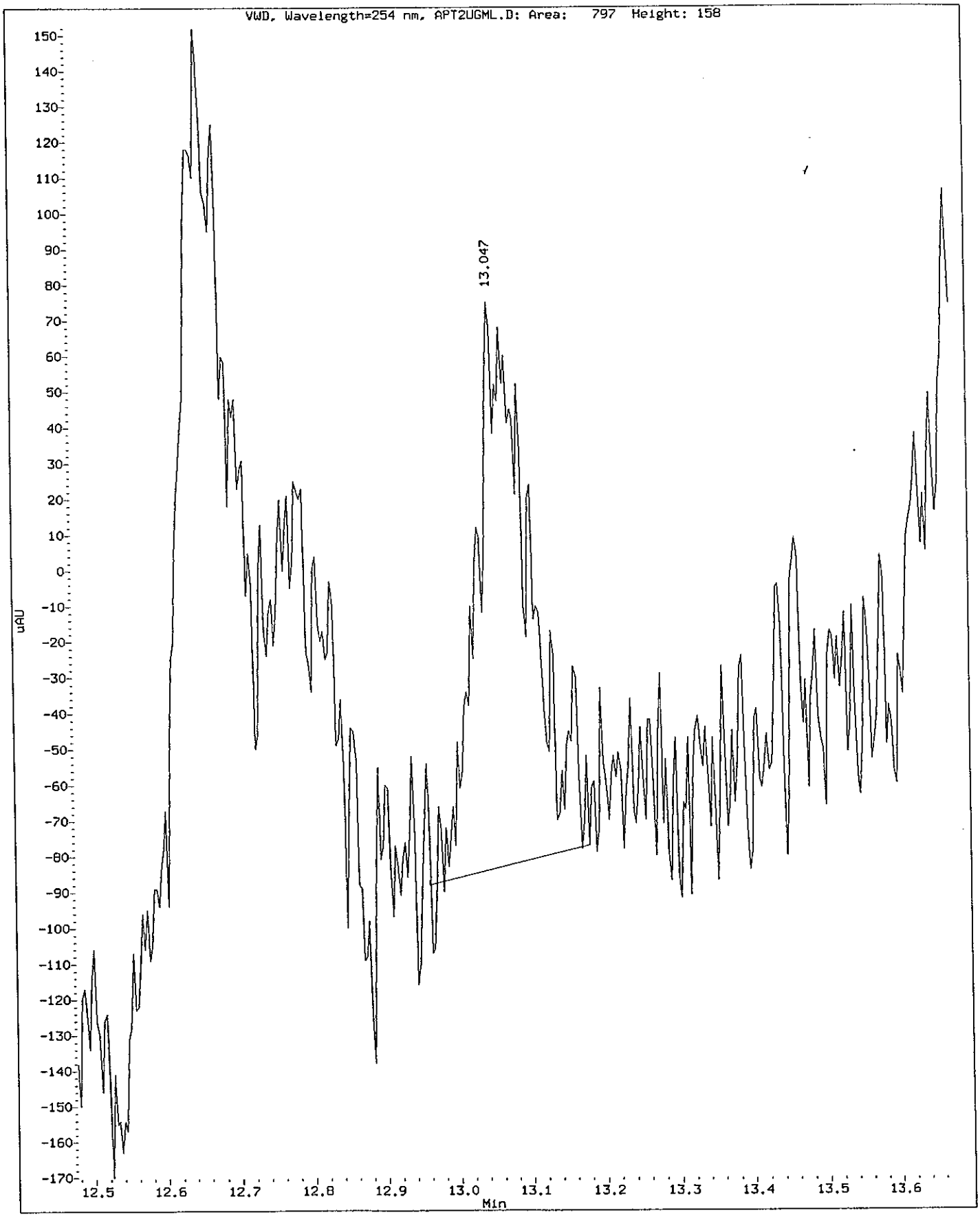
Injection Date: 20-SEP-2001 17:29
Instrument: slc02.i
Client Sample ID: APT2UGML

Compound: Acenaphthylene
CAS Number: 208-96-8



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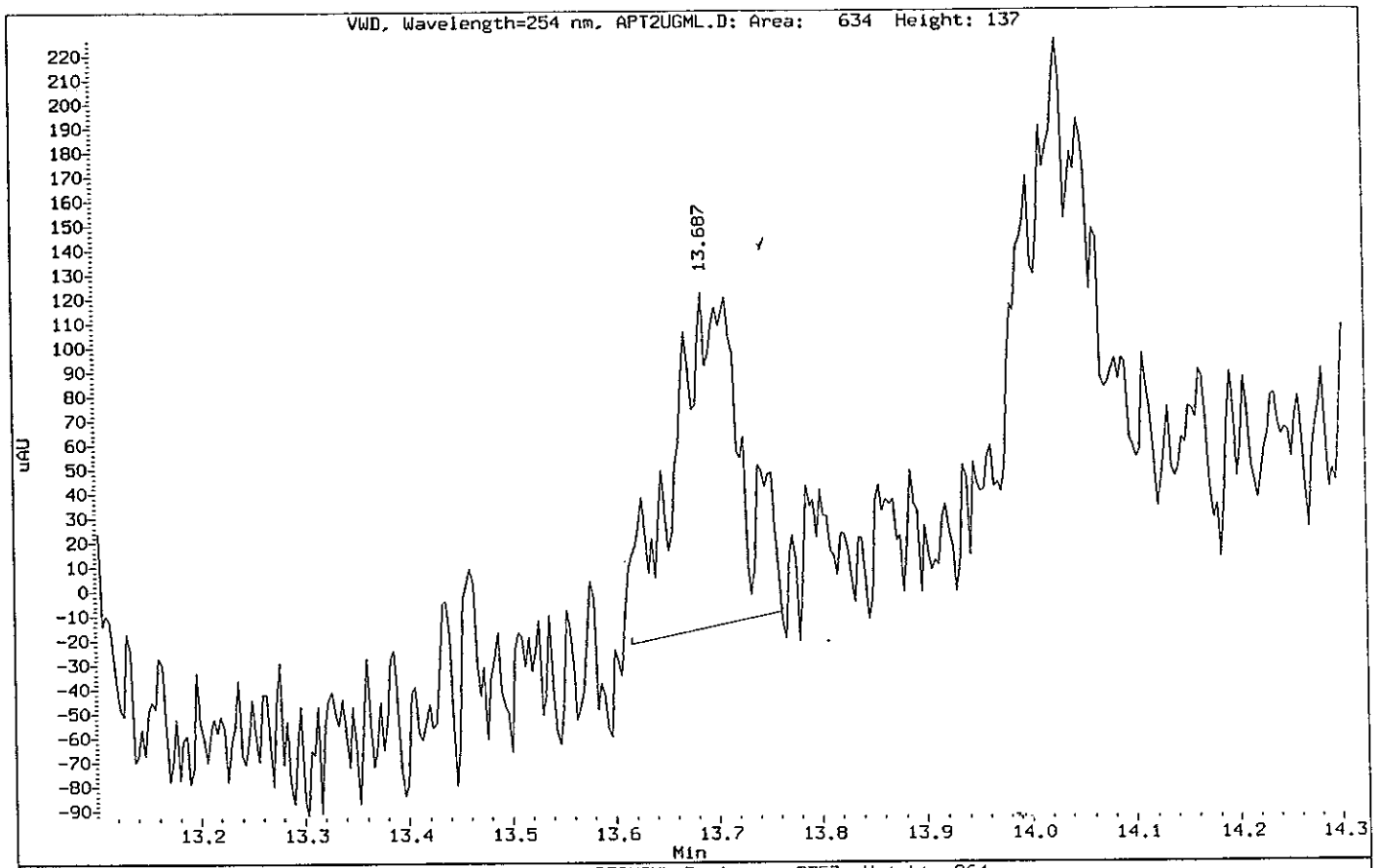
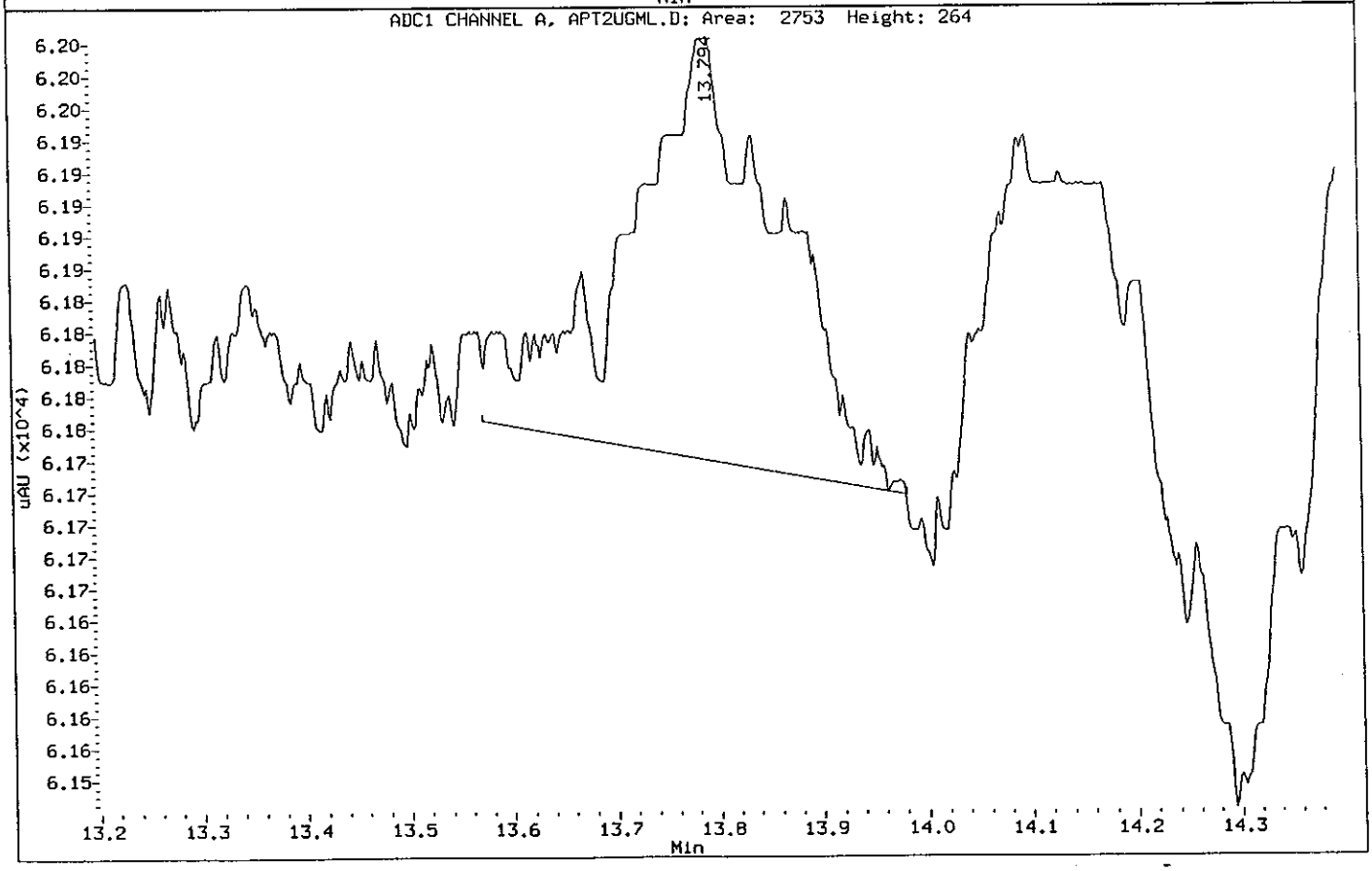
Injection Date: 20-SEP-2001 17:29
Instrument: slc02.i
Client Sample ID: APT2UGML

Compound: 1-Methyl naphthalene
CAS Number: 90-12-0





JMD

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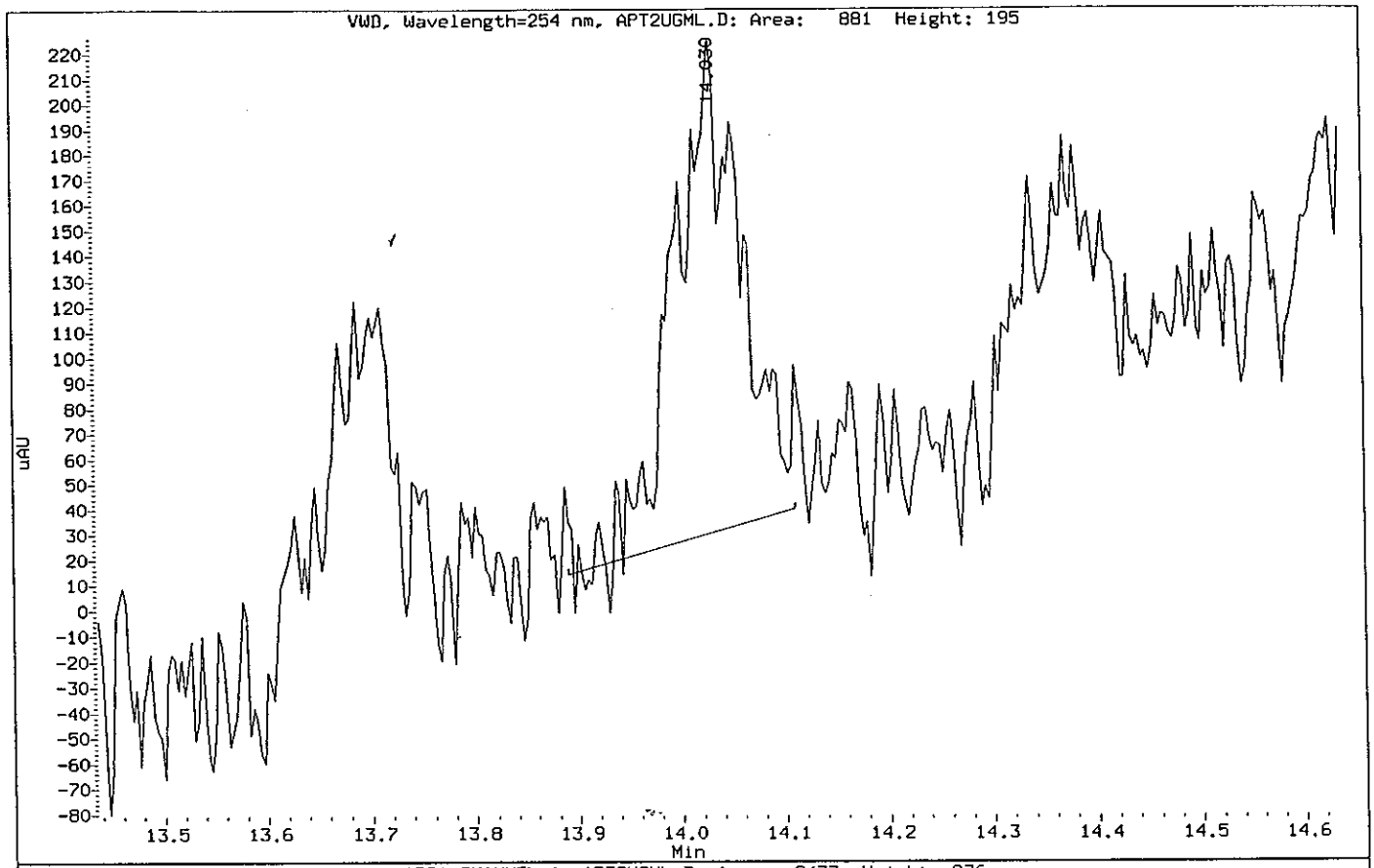
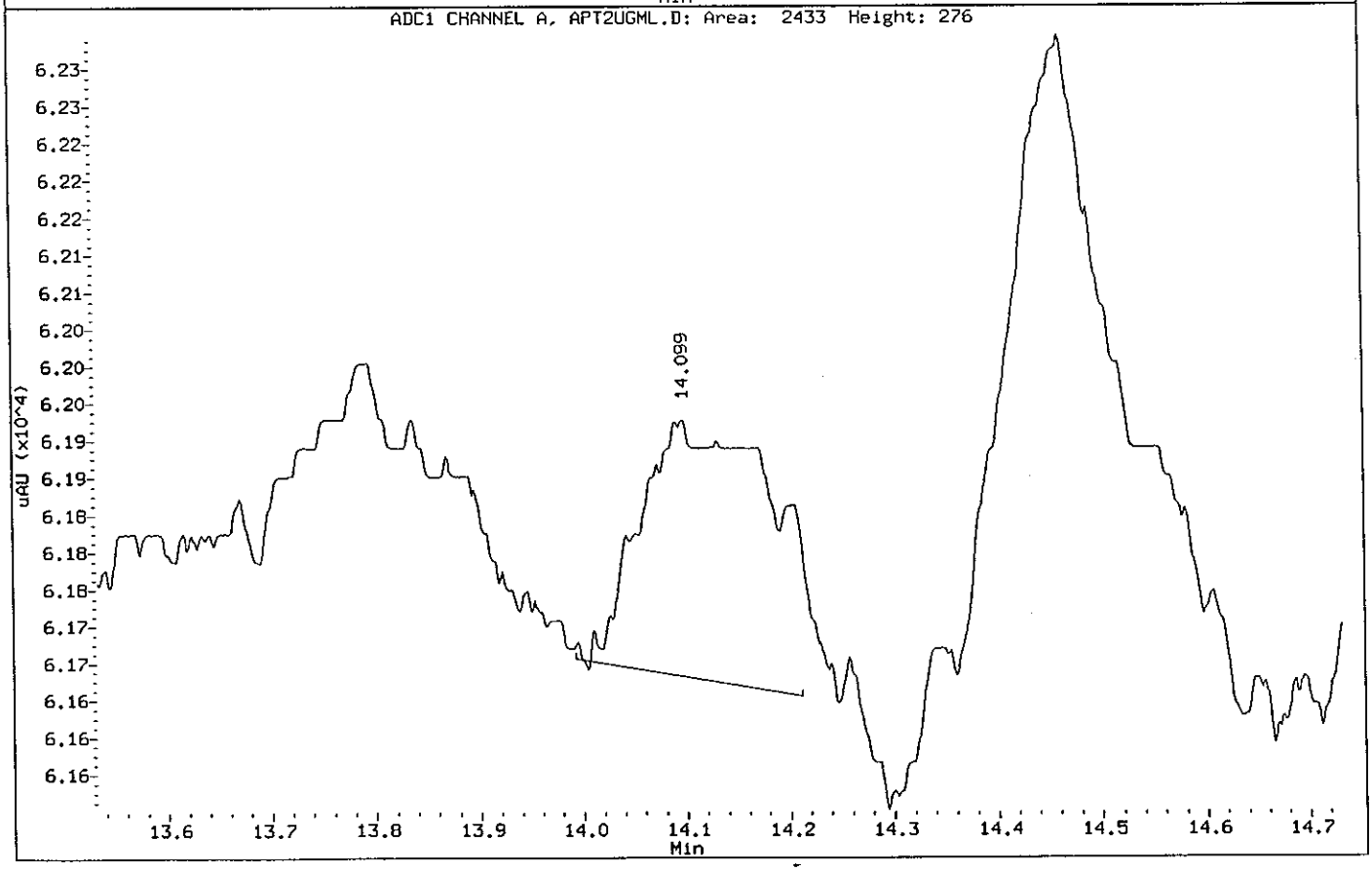
Injection Date: 20-SEP-2001 17:29
Instrument: slc02.i
Client Sample ID: APT2UGML

Compound: 2-Methyl naphthalene
CAS Number: 91-57-6





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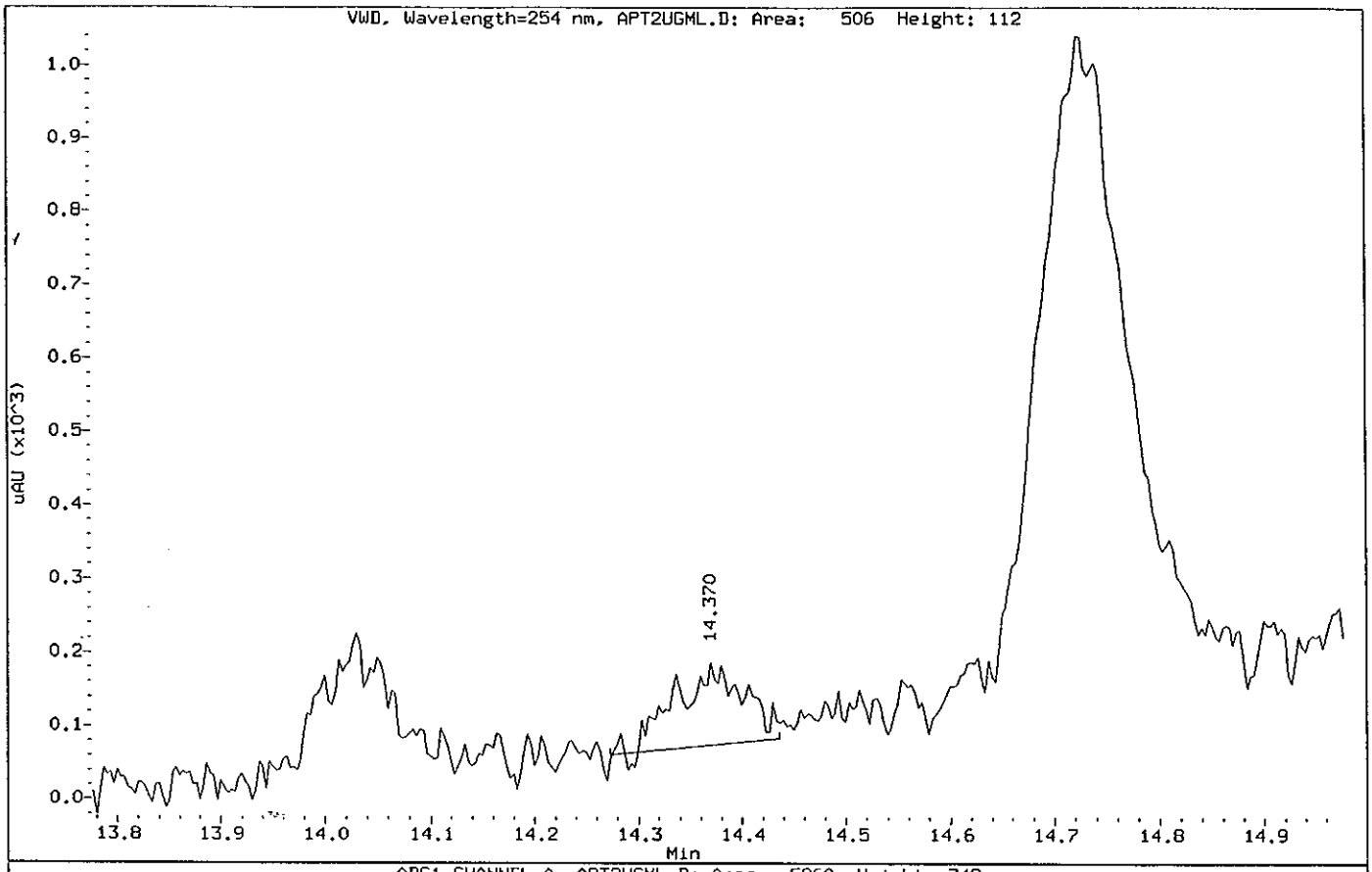
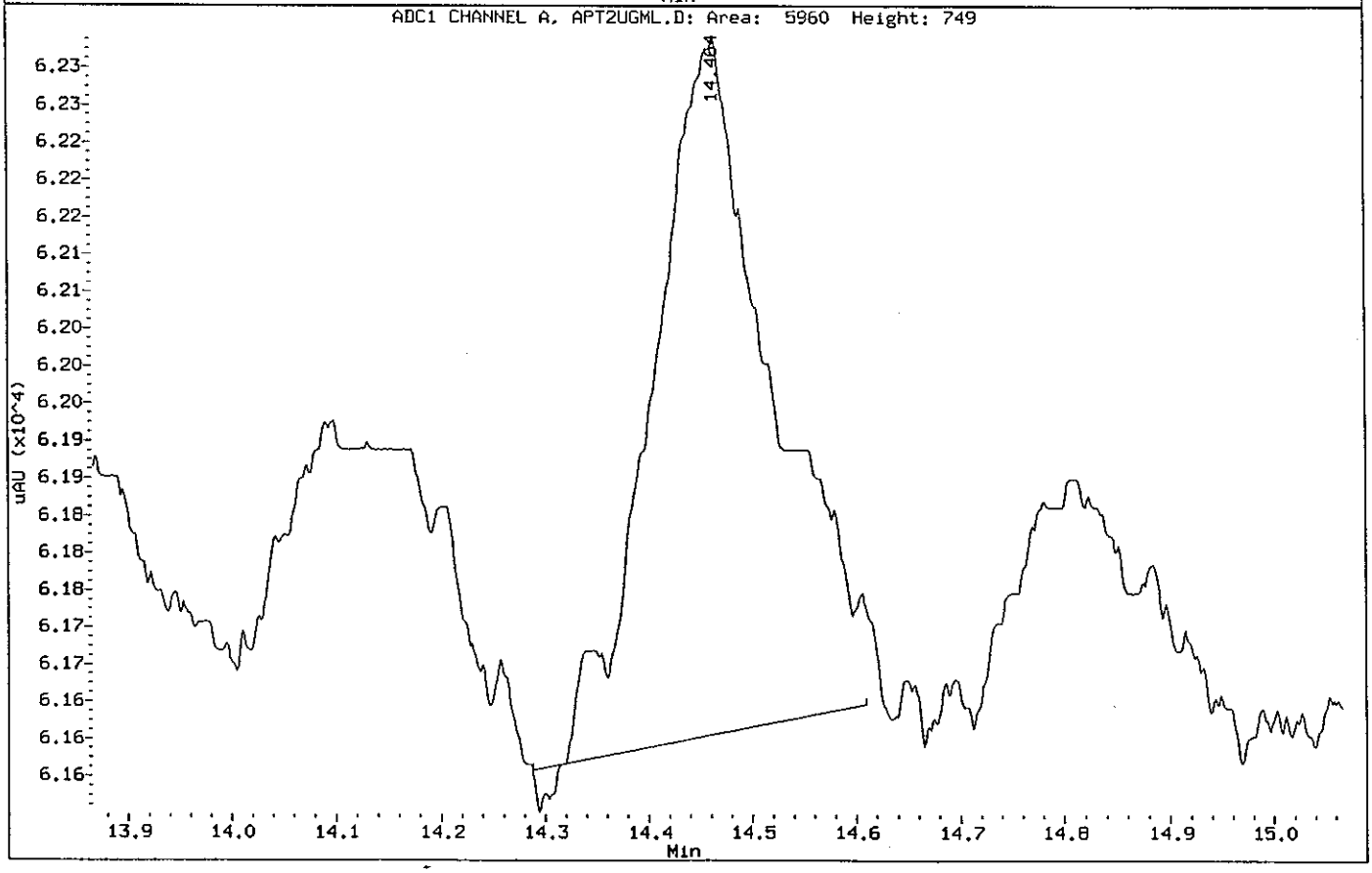
Injection Date: 20-SEP-2001 17:29
Instrument: slc02.i
Client Sample ID: APT2UGML

Compound: Acenaphthene
CAS Number: 83-32-9





JMD

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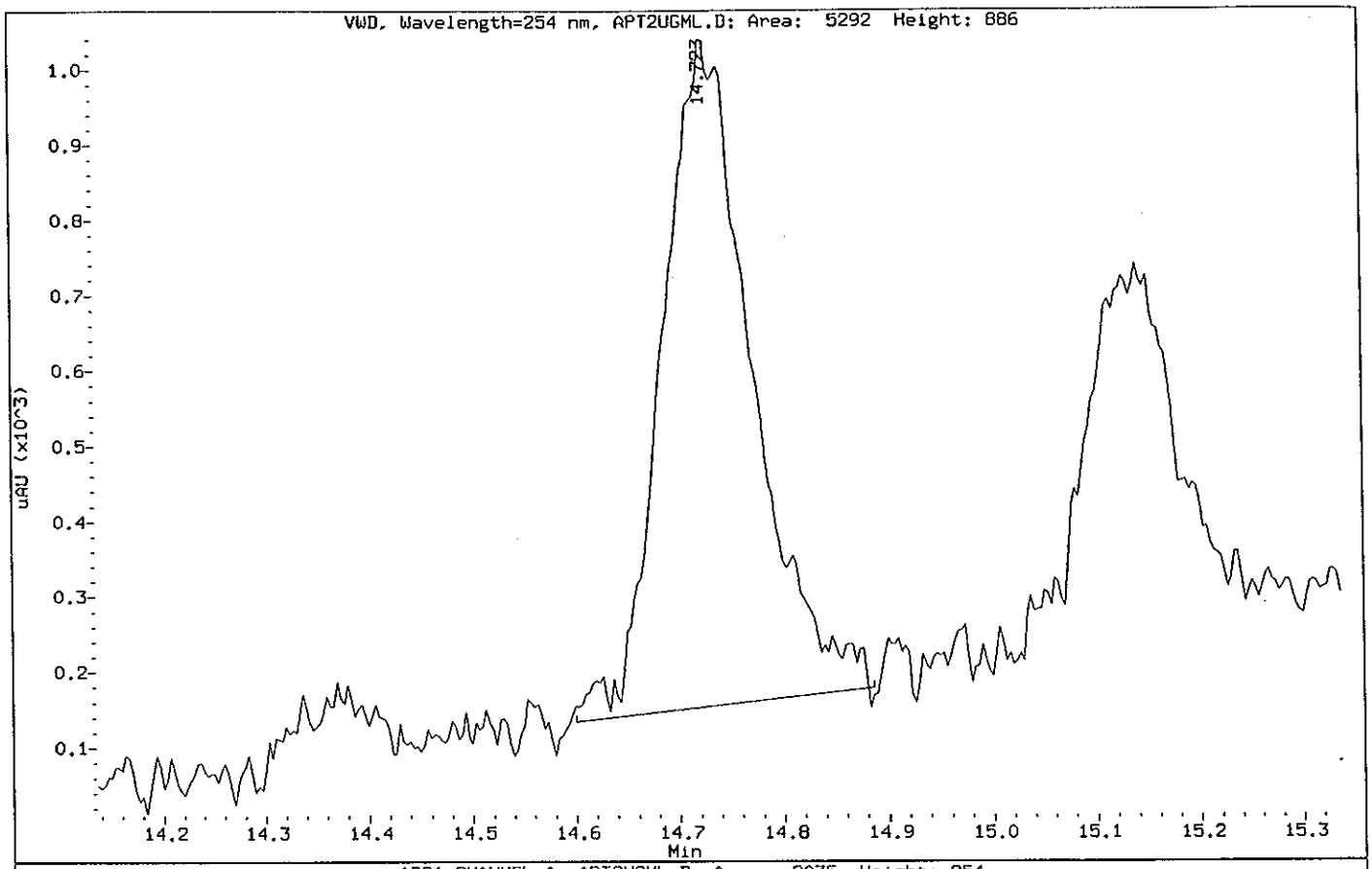
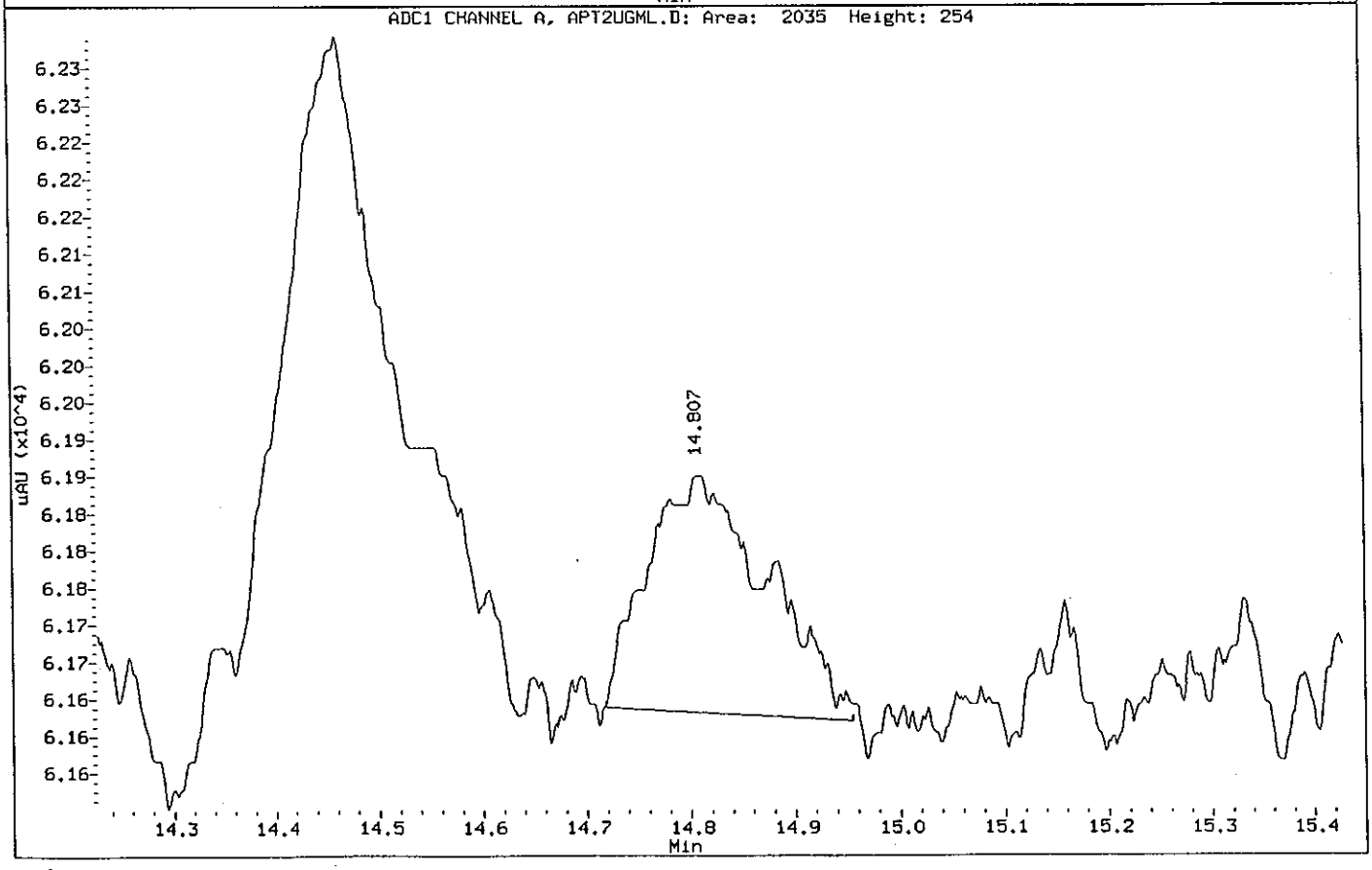
Injection Date: 20-SEP-2001 17:29
Instrument: slc02.i
Client Sample ID: APT2UGML

Compound: Fluorene
CAS Number: 86-73-7





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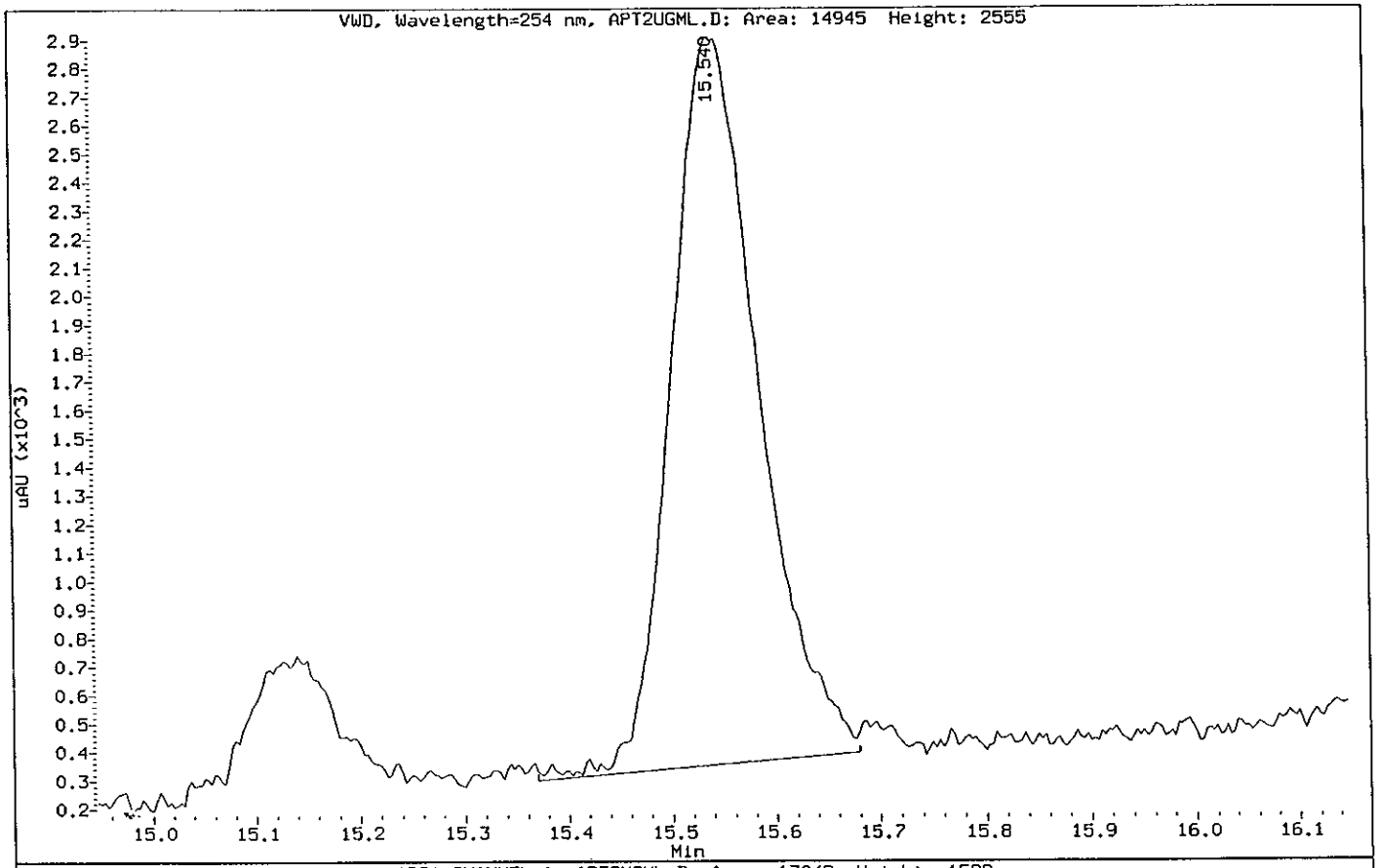
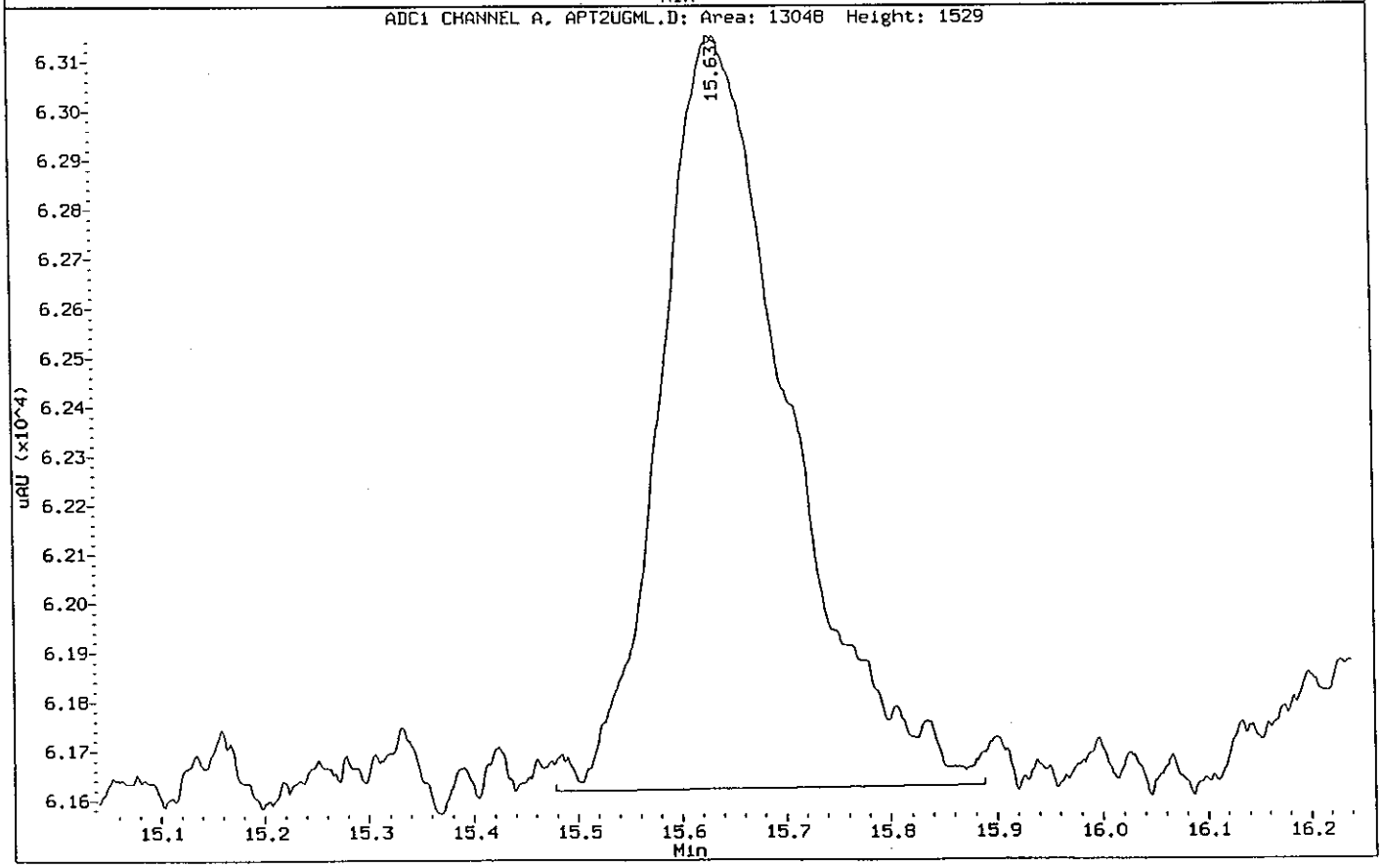
Injection Date: 20-SEP-2001 17:29
Instrument: slc02.i
Client Sample ID: APT2UGML

Compound: Phenanthrene
CAS Number: 85-01-8





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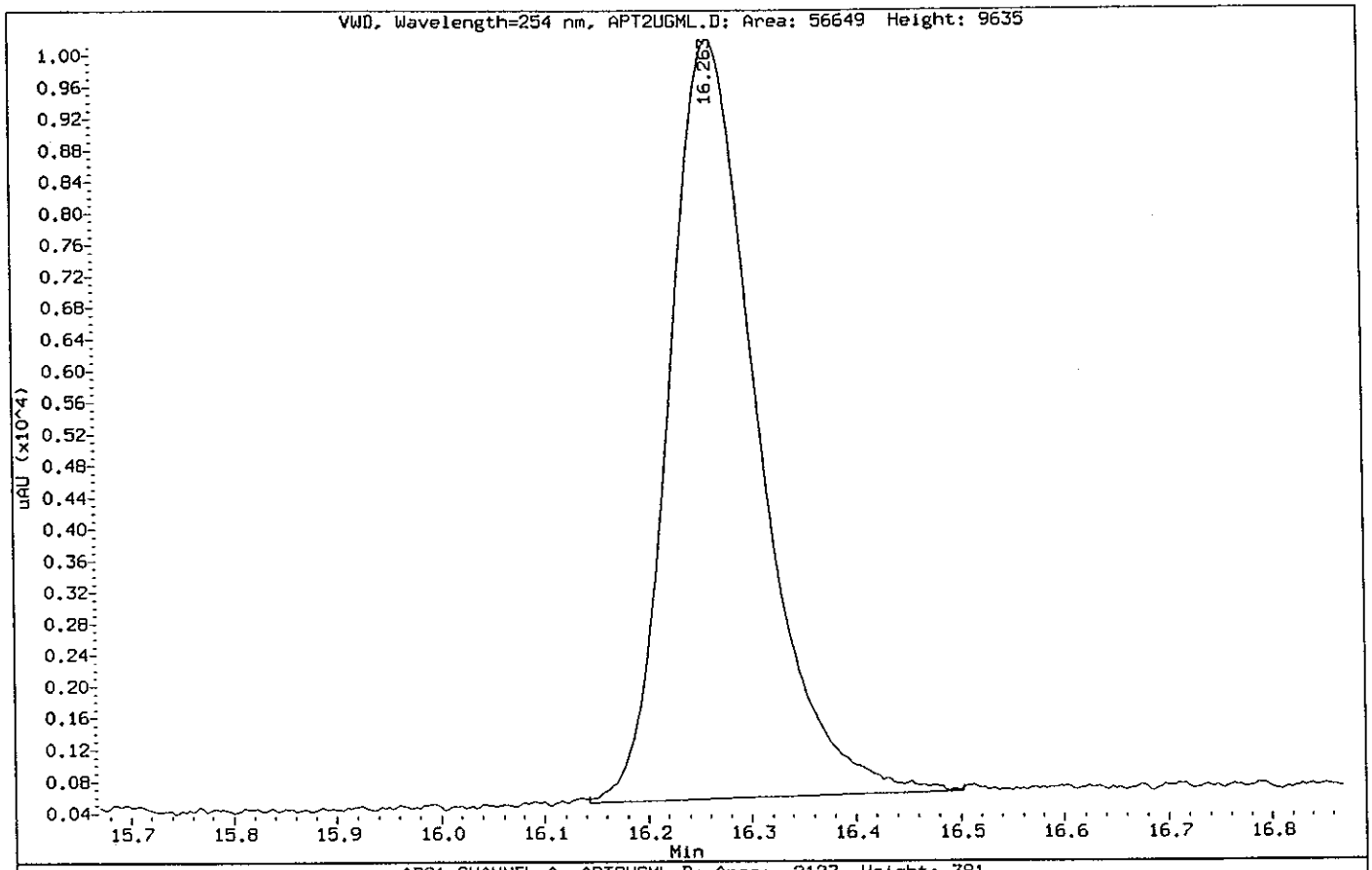
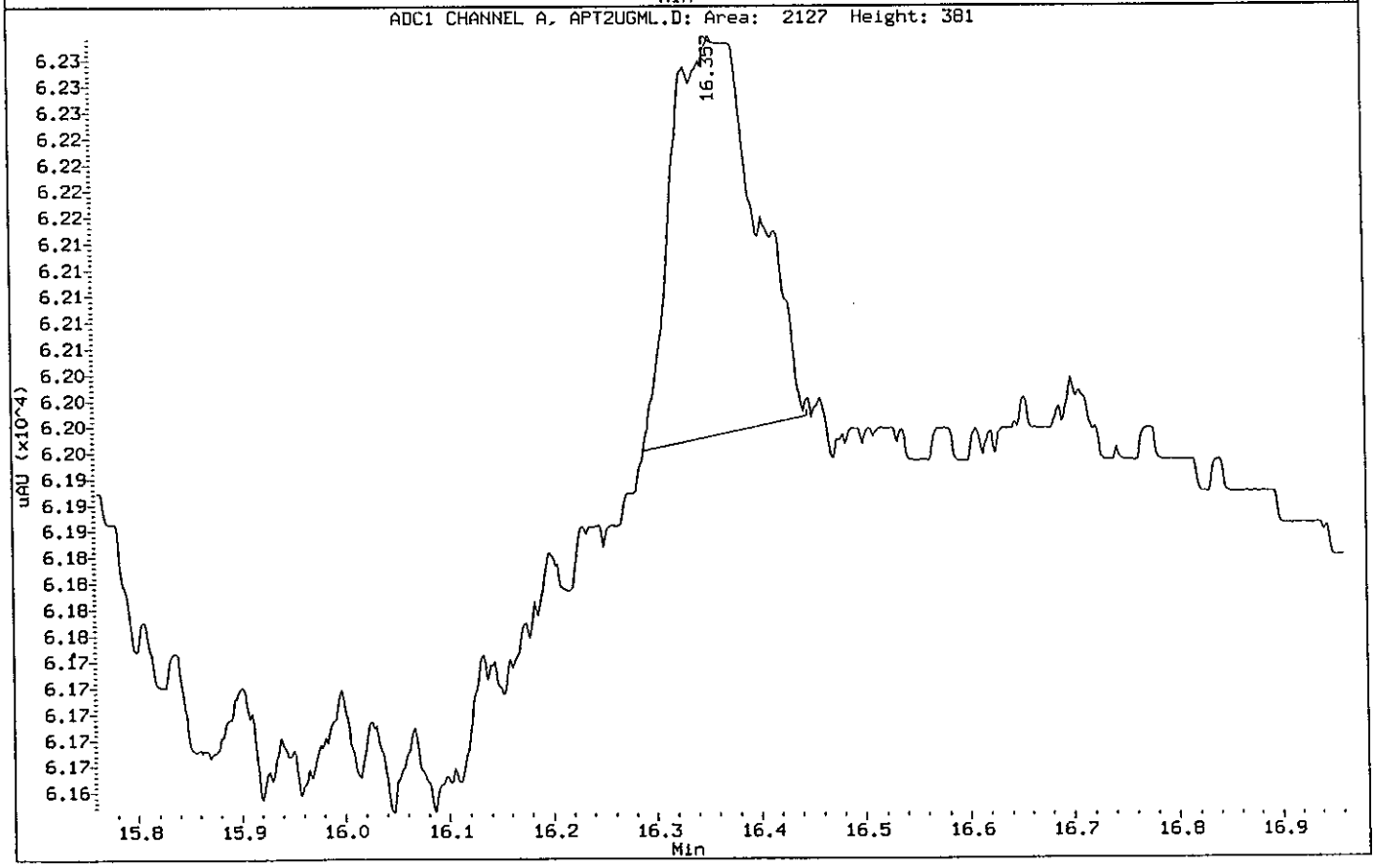
Injection Date: 20-SEP-2001 17:29
Instrument: slc02.i
Client Sample ID: APT2UGML

Compound: Anthracene
CAS Number: 120-12-7

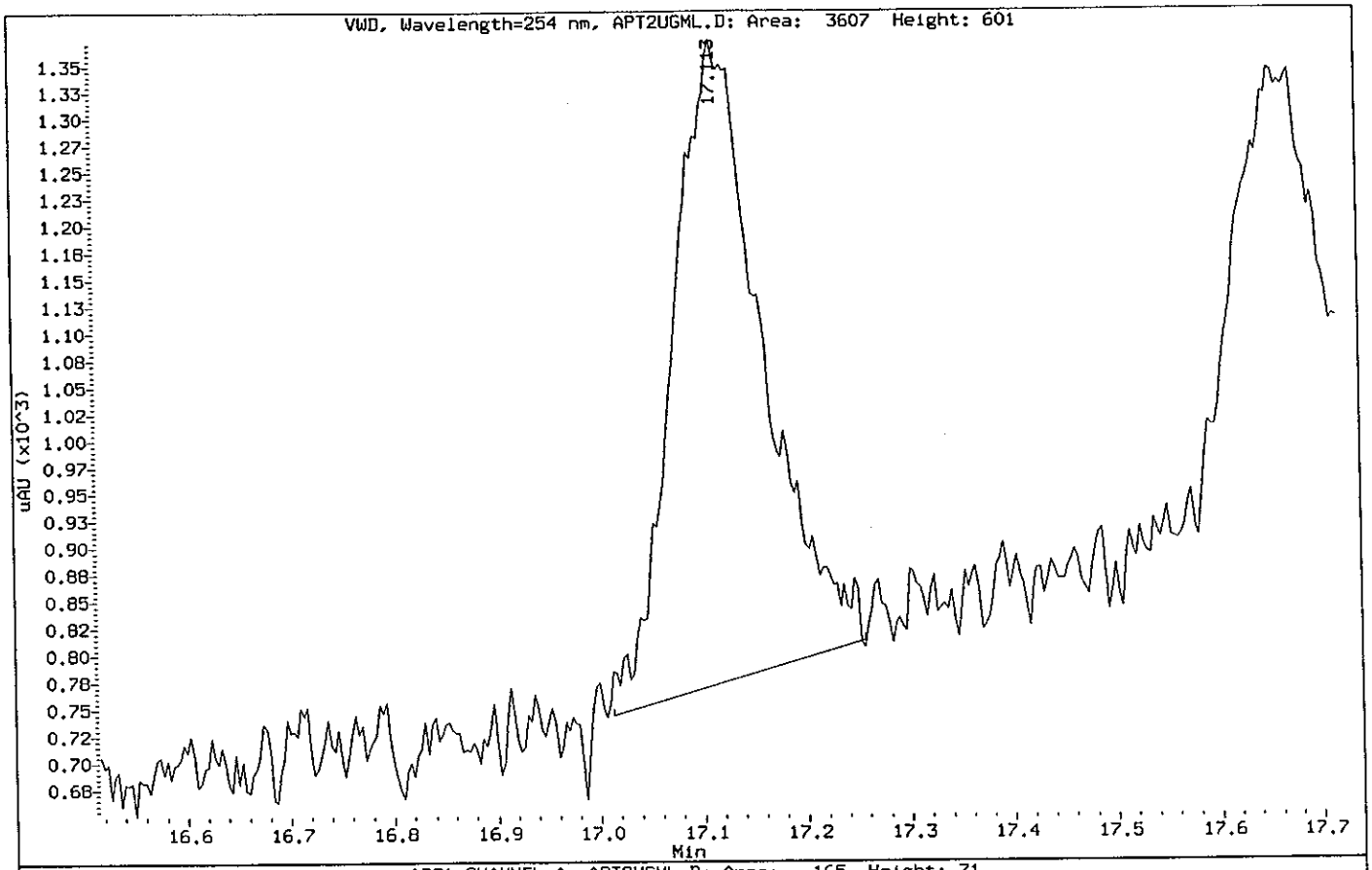


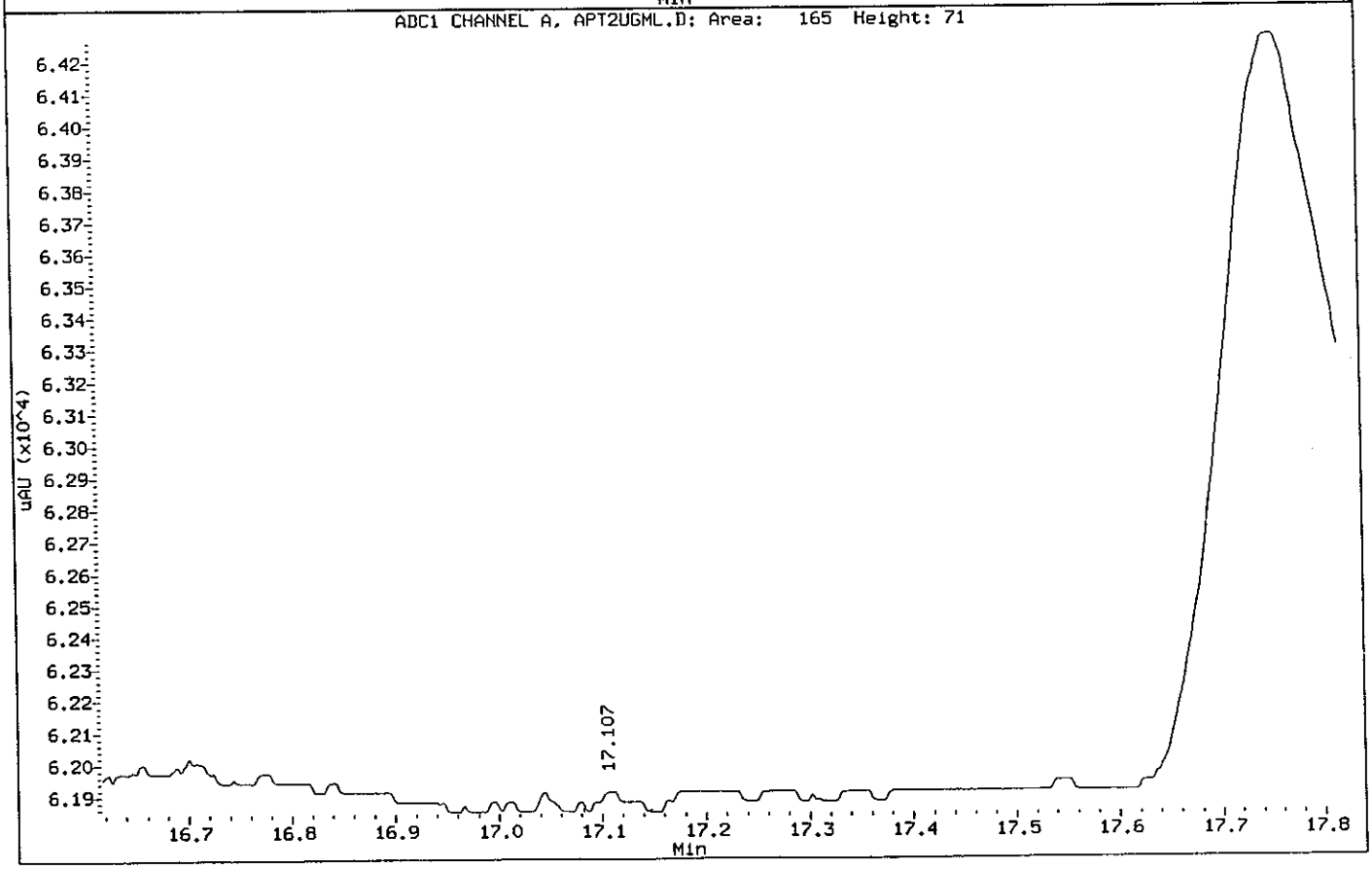


TMD

Data File: \\SVHPLC\ee\chem\slc02.i\RECAL0920A.B\APT2UGML.D
Injection Date: 20-SEP-2001 17:29
Instrument: slc02.i
Client Sample ID: APT2UGML

Compound: Fluoranthene
CAS Number: 206-44-0

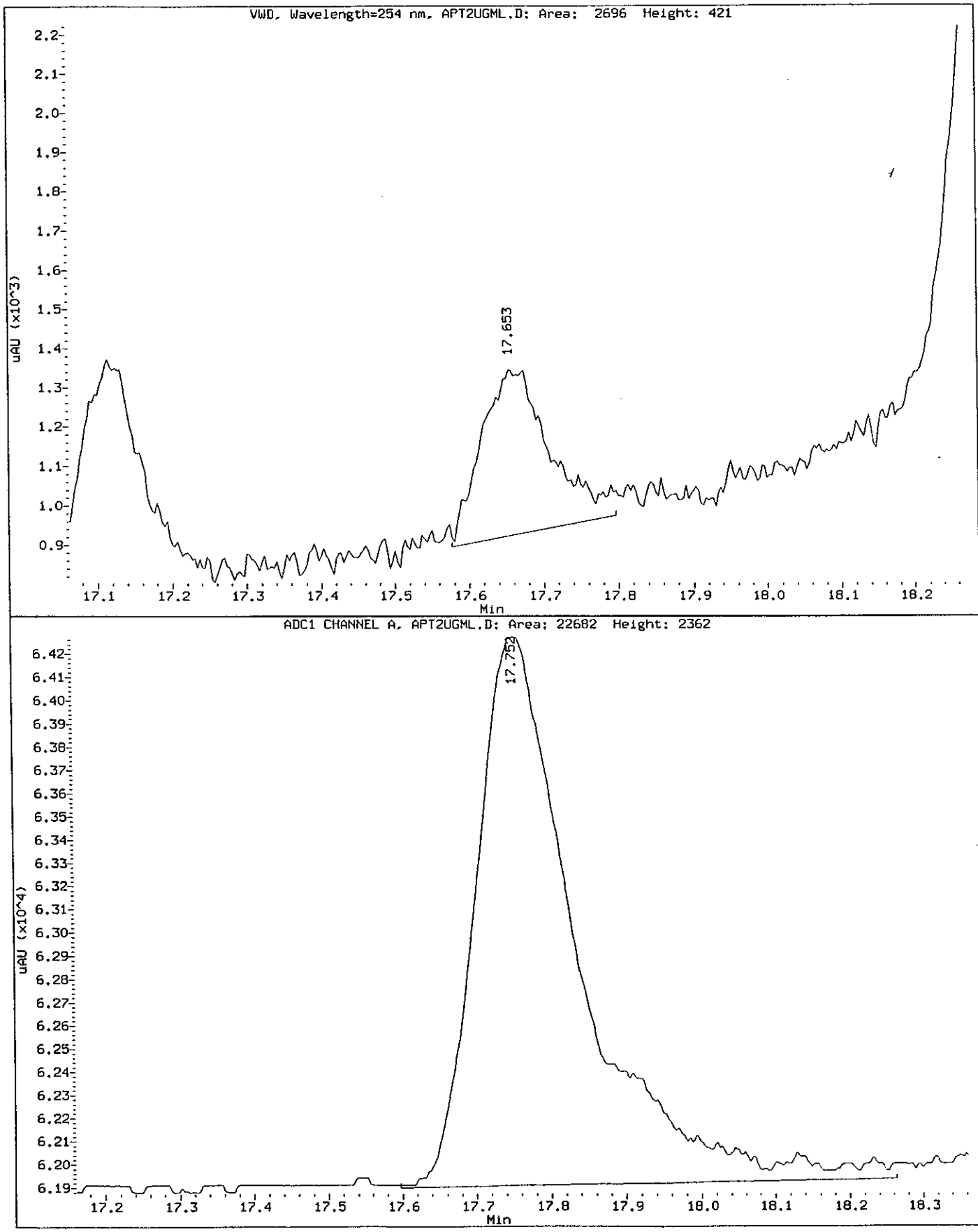




TWD

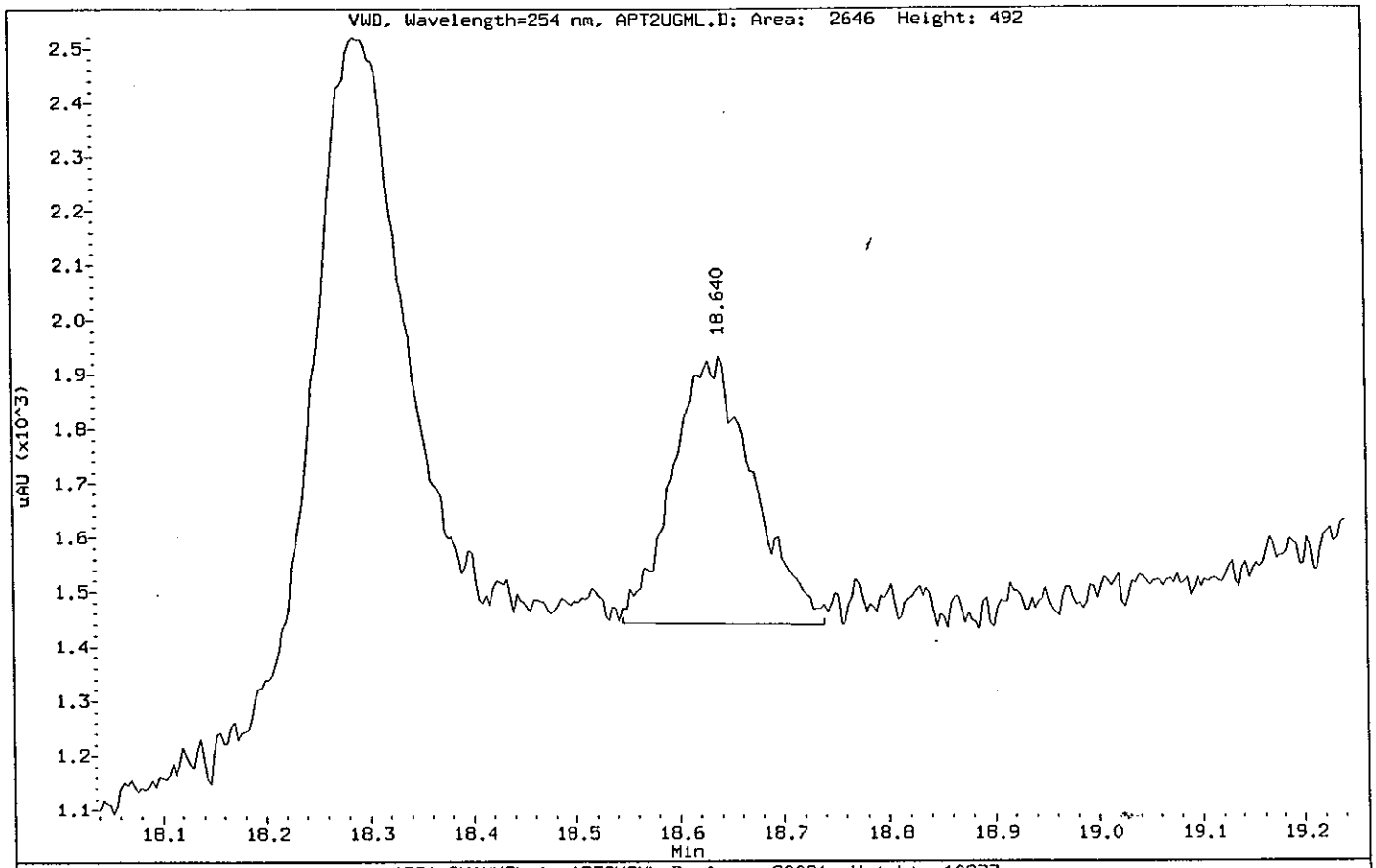
Data File: \\SVHPLC\ee\chem\slc02.i\RECAL0920A.B\APT2UGML.D
Injection Date: 20-SEP-2001 17:29
Instrument: slc02.i
Client Sample ID: APT2UGML

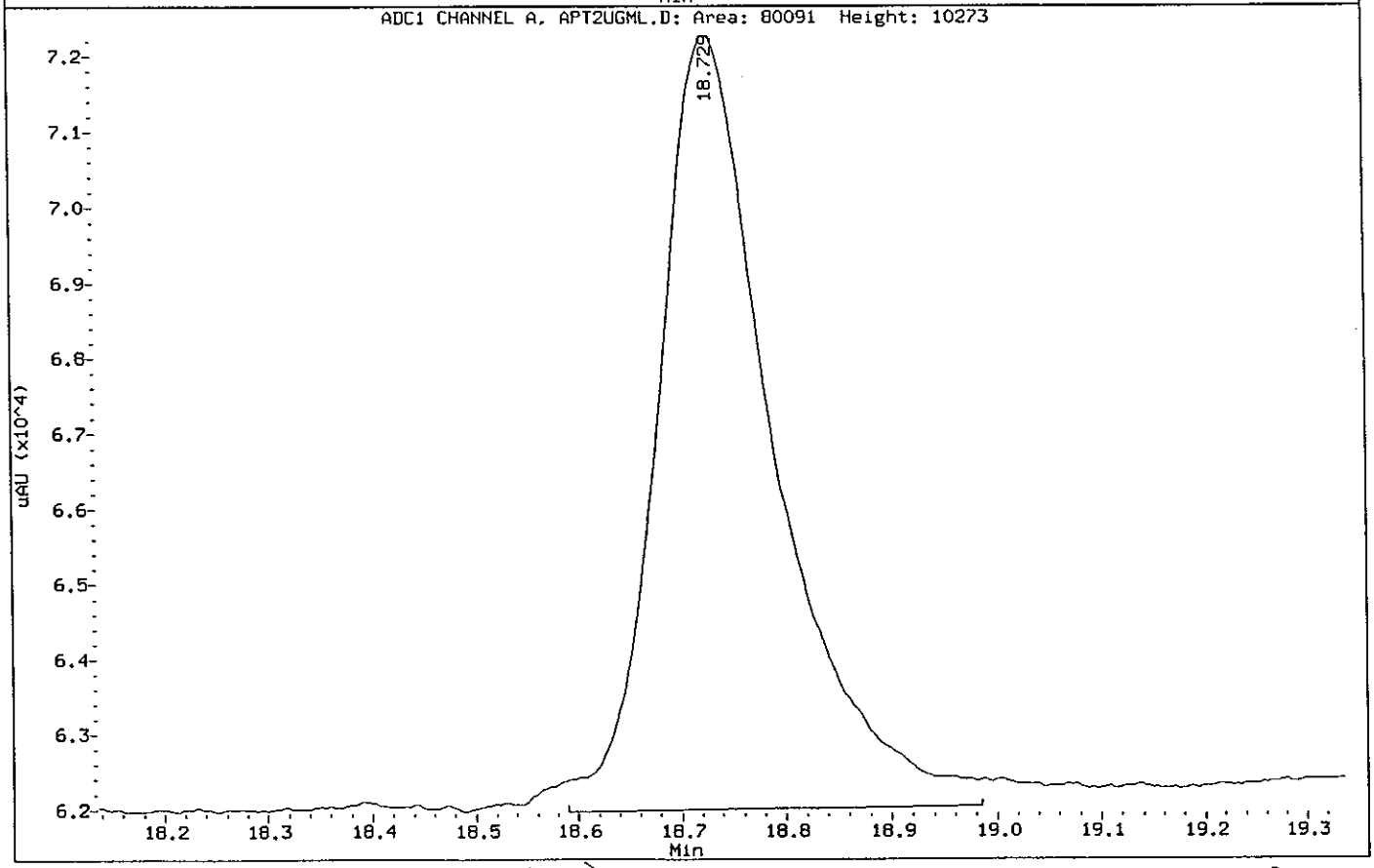
Compound: Pyrene
CAS Number: 129-00-0



Data File: \\SVHPLC\ee\chem\slc02.i\RECAL0920A.B\APT2UGML.D
Injection Date: 20-SEP-2001 17:29
Instrument: slc02.i
Client Sample ID: APT2UGML

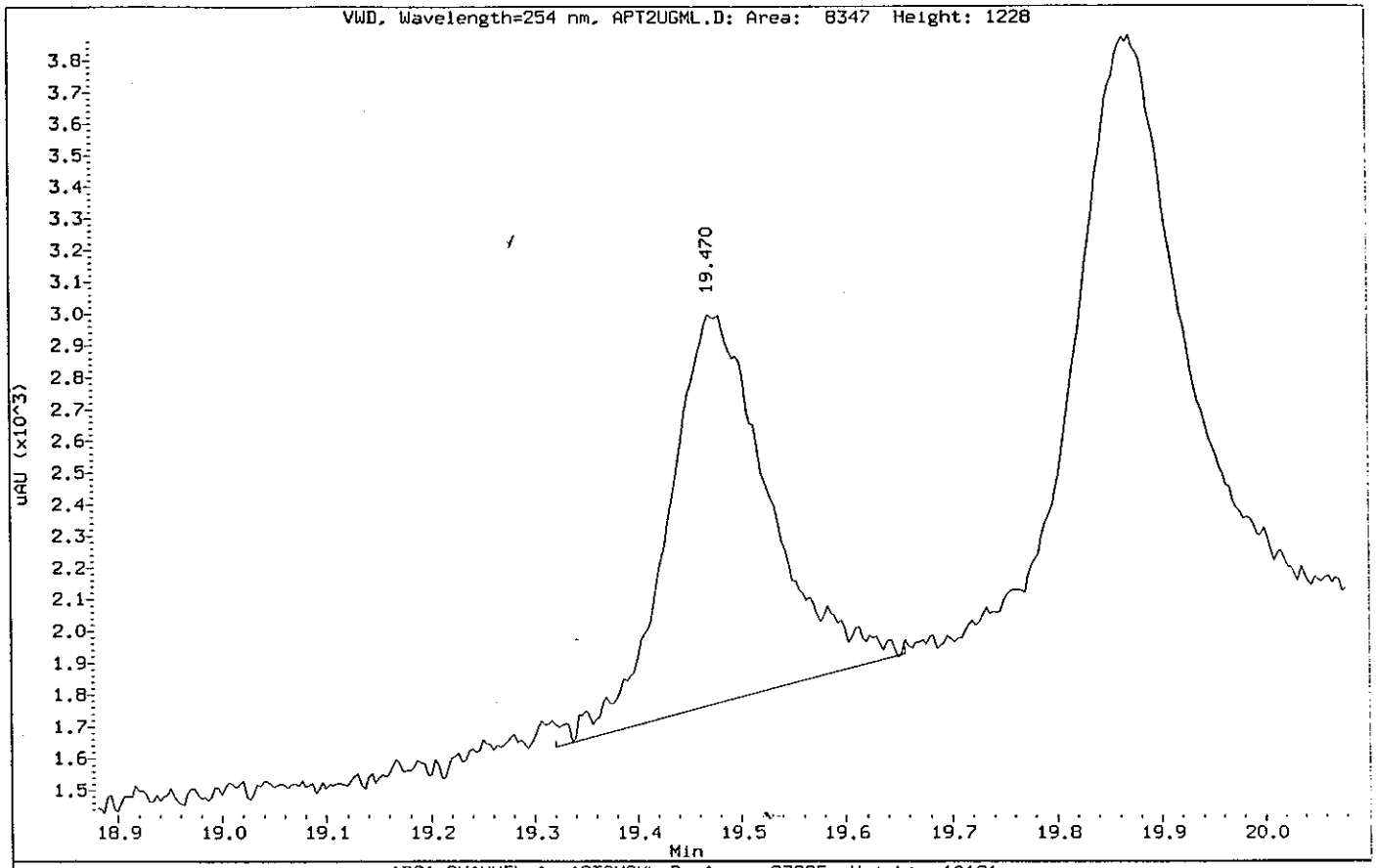
Compound: p-Terphenyl-d14 (SURR)
CAS Number: 1718-51-0

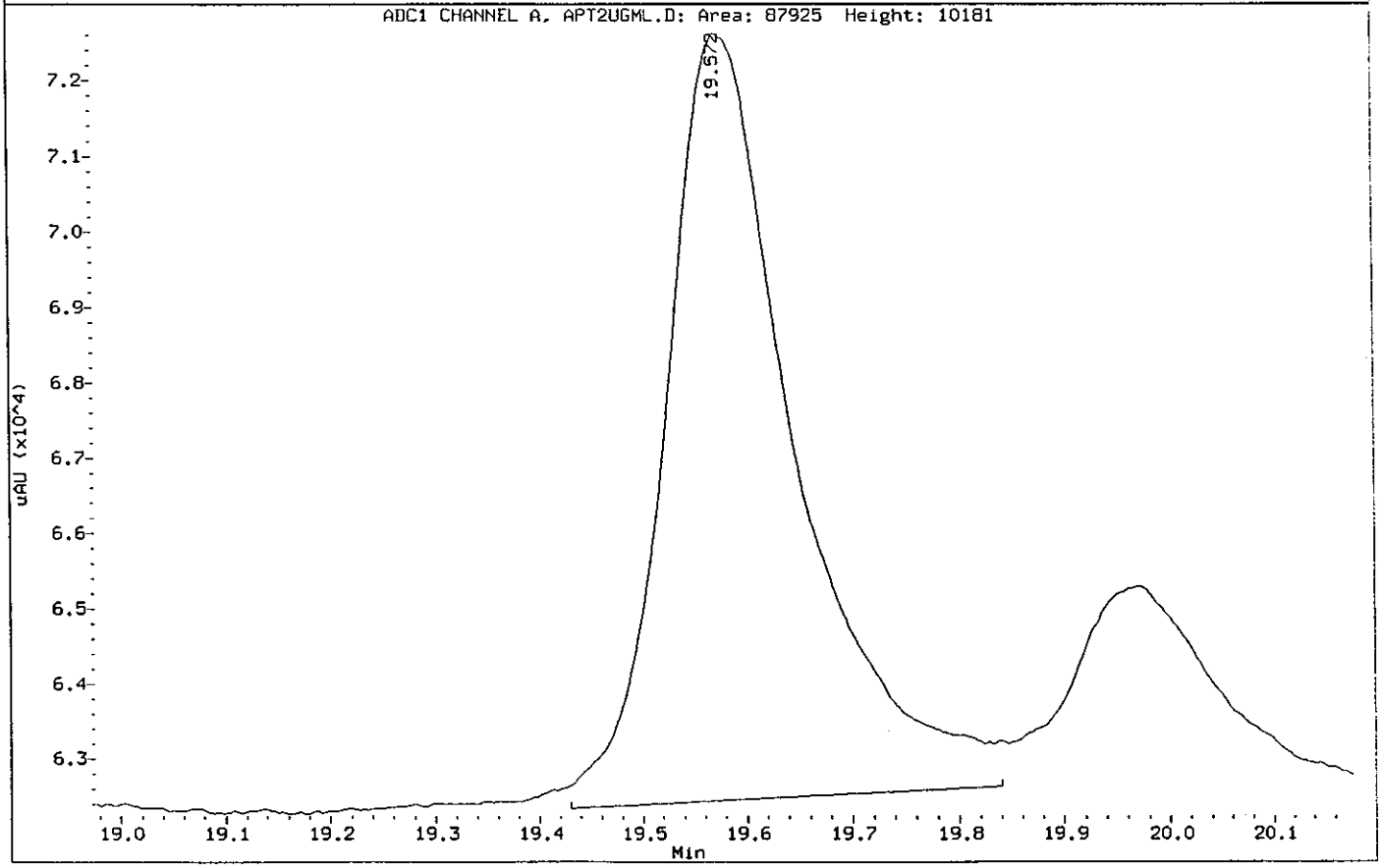




Data File: \\SVHPLC\ee\chem\slc02.i\RECAL0920A.B\APT2UGML.D
Injection Date: 20-SEP-2001 17:29
Instrument: slc02.i
Client Sample ID: APT2UGML

Compound: Benzo(a)Anthracene
CAS Number: 56-55-3





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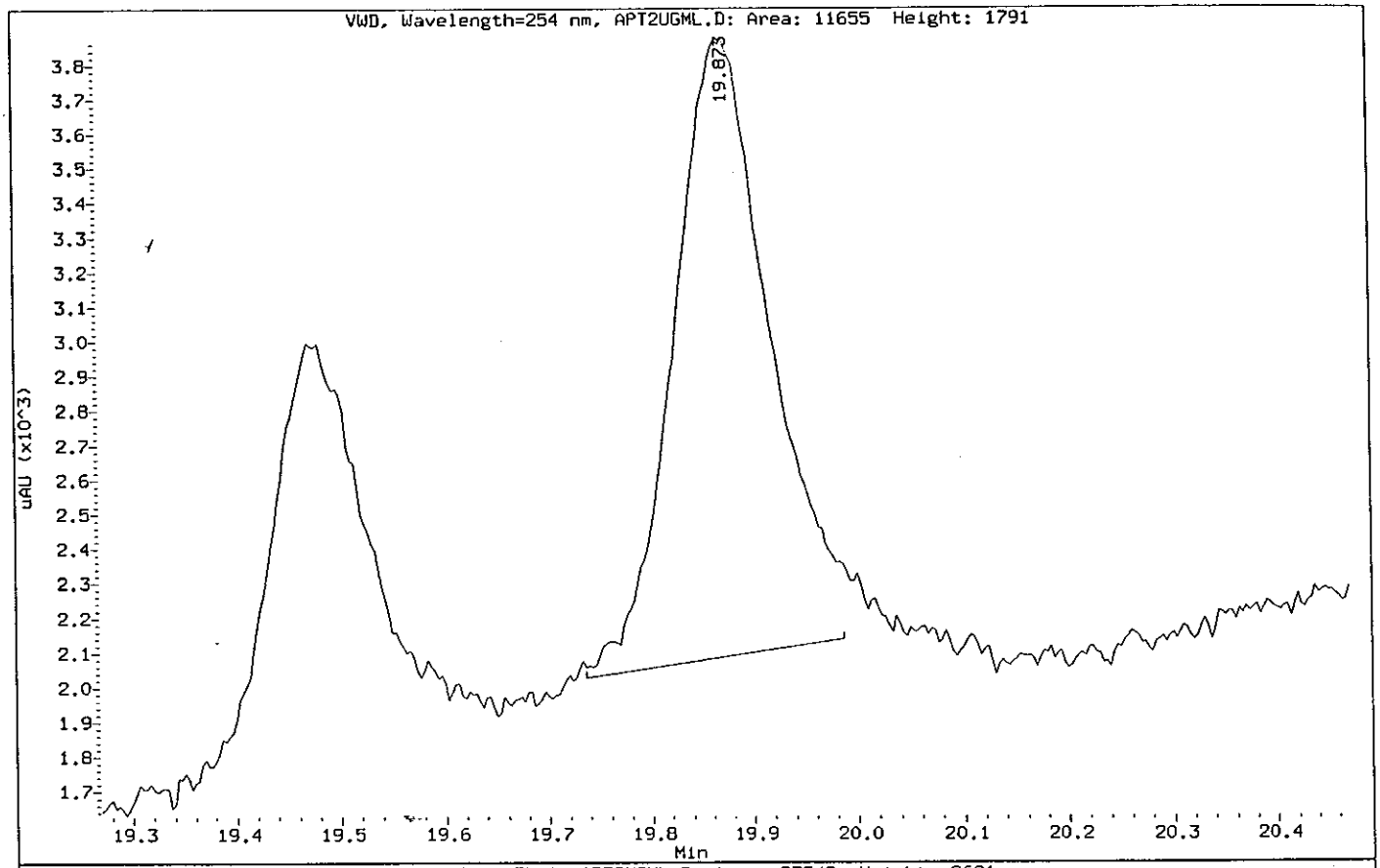
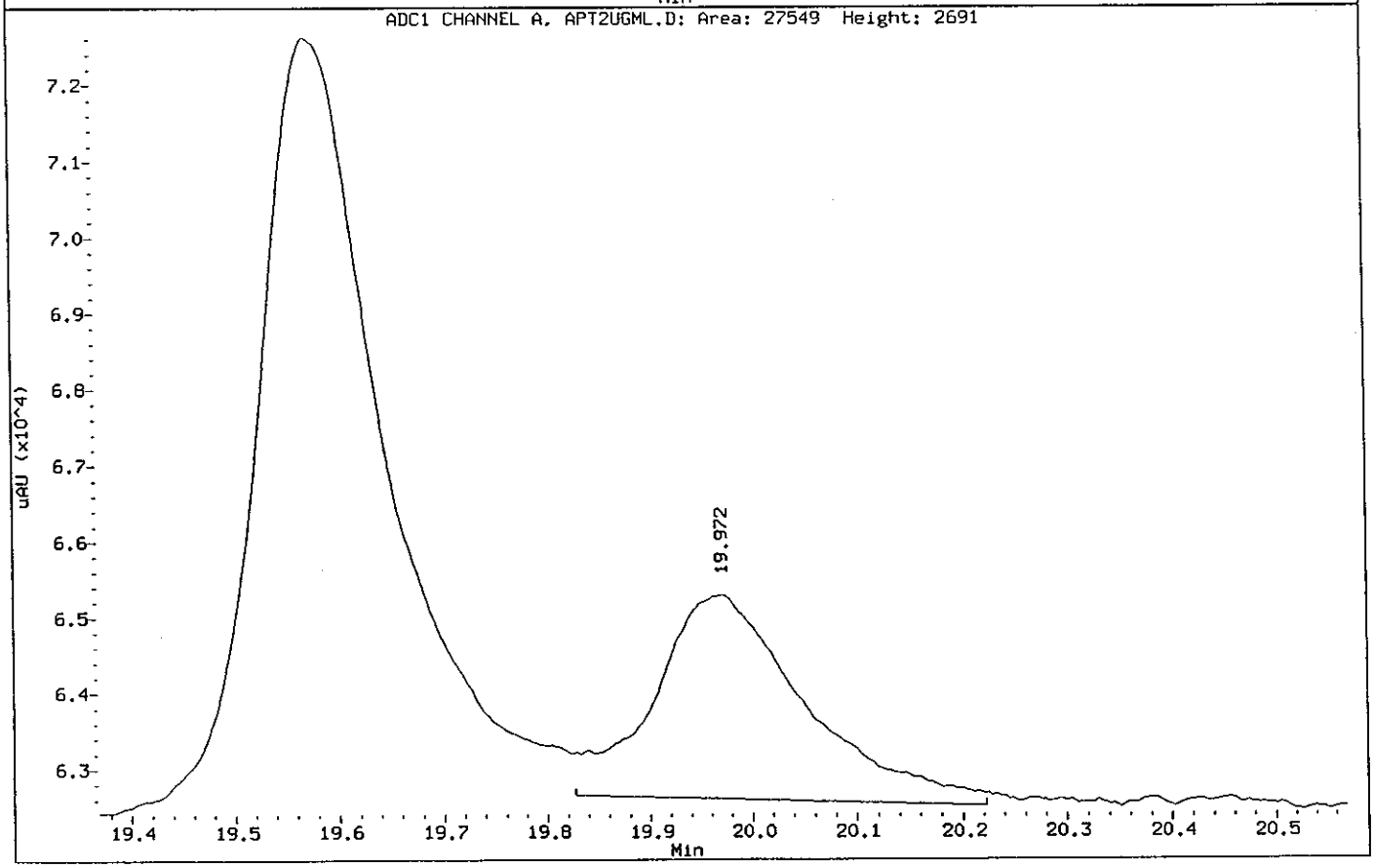
Injection Date: 20-SEP-2001 17:29
Instrument: slc02.i
Client Sample ID: APT2UGML

Compound: Chrysene
CAS Number: 218-01-9





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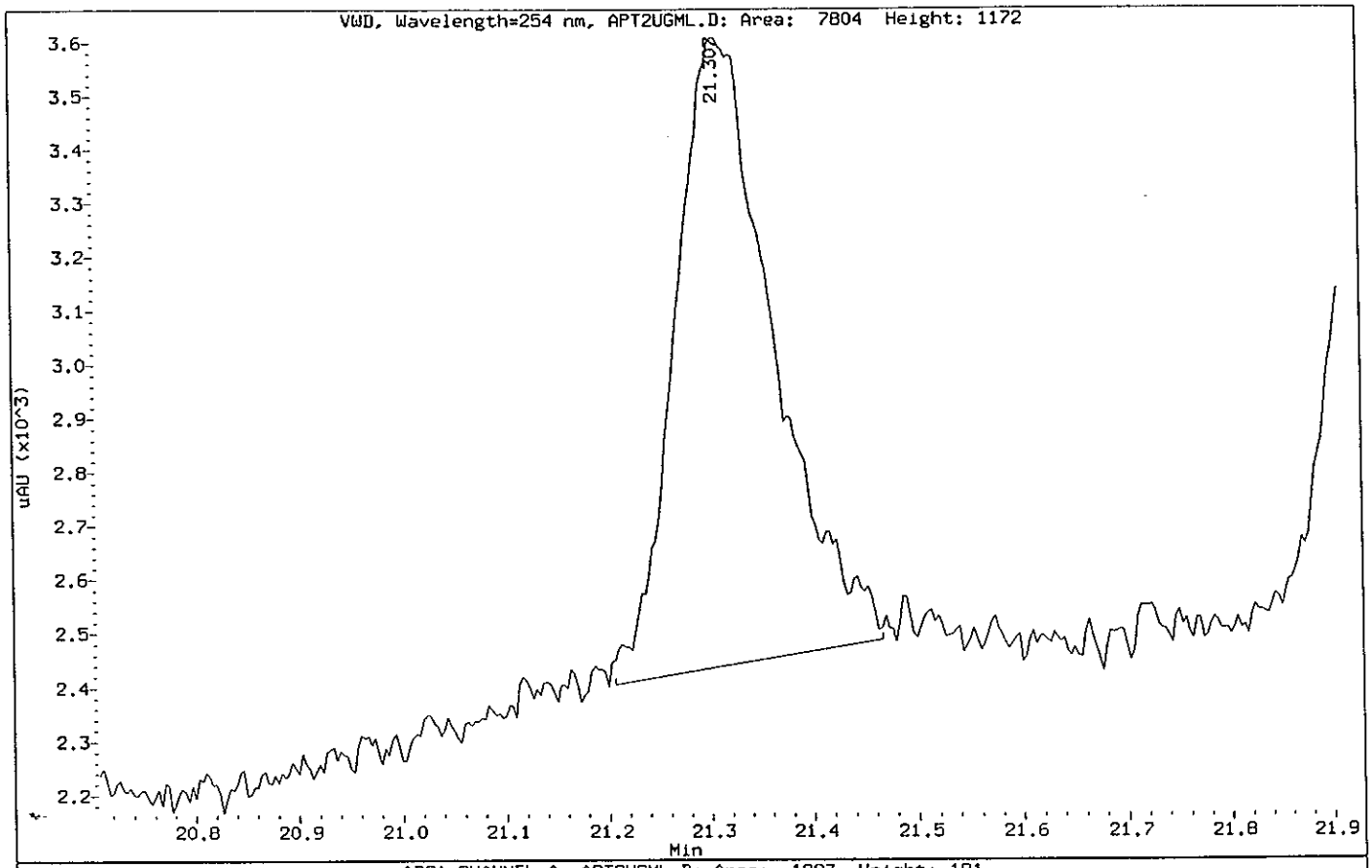
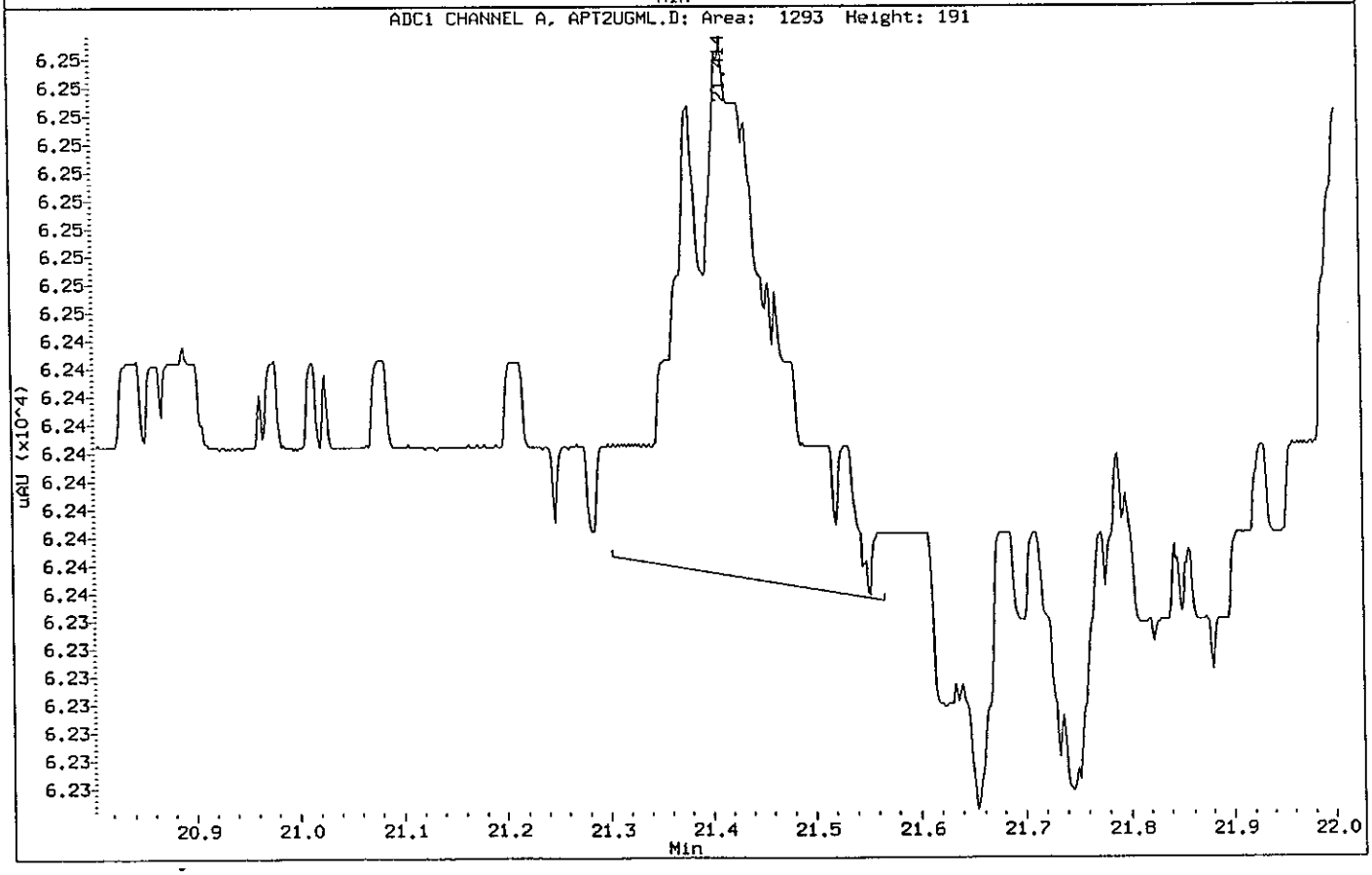
Injection Date: 20-SEP-2001 17:29
Instrument: slc02.i
Client Sample ID: APT2UGML

Compound: Benzo(b)Fluoranthene
CAS Number: 205-99-2





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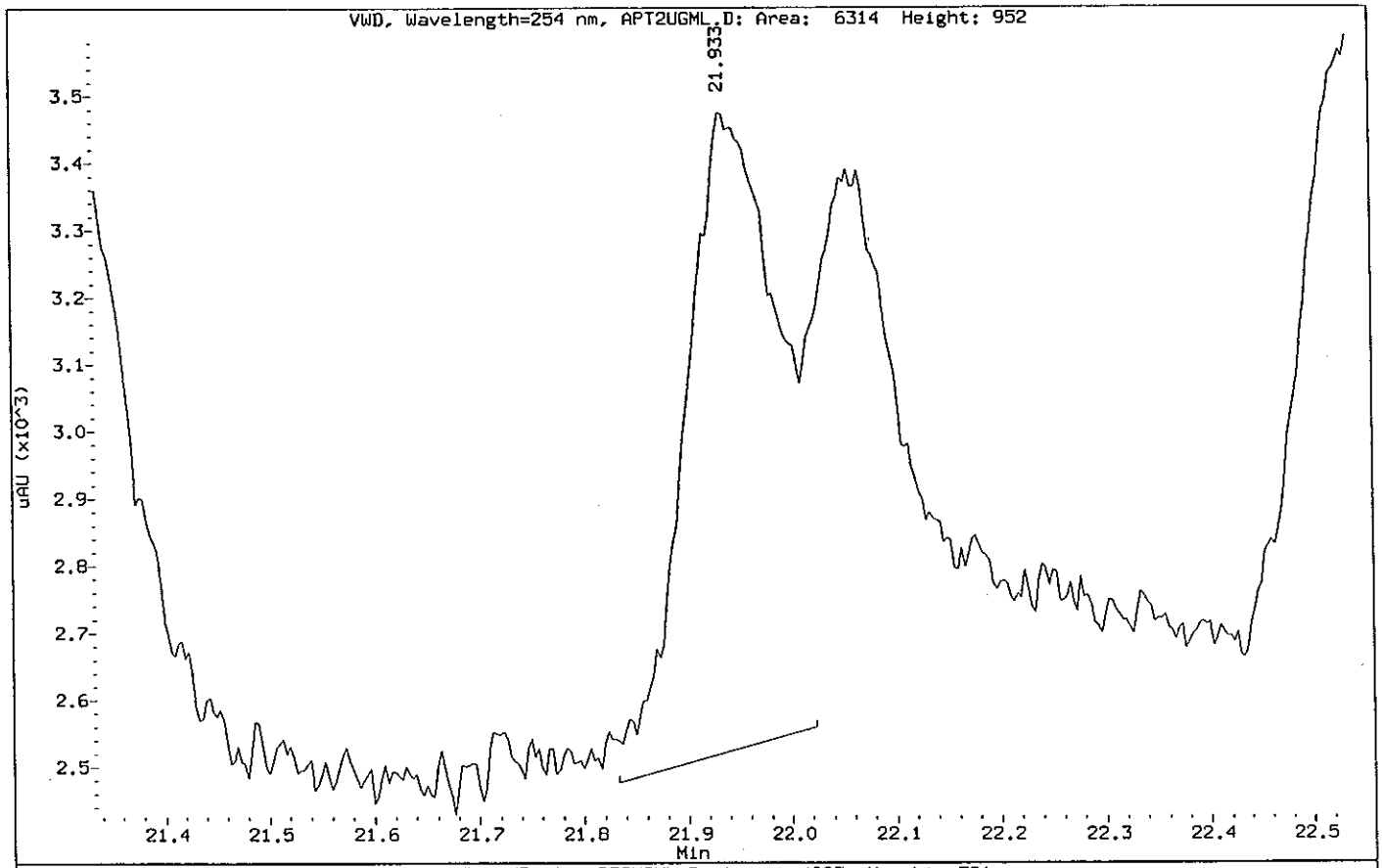
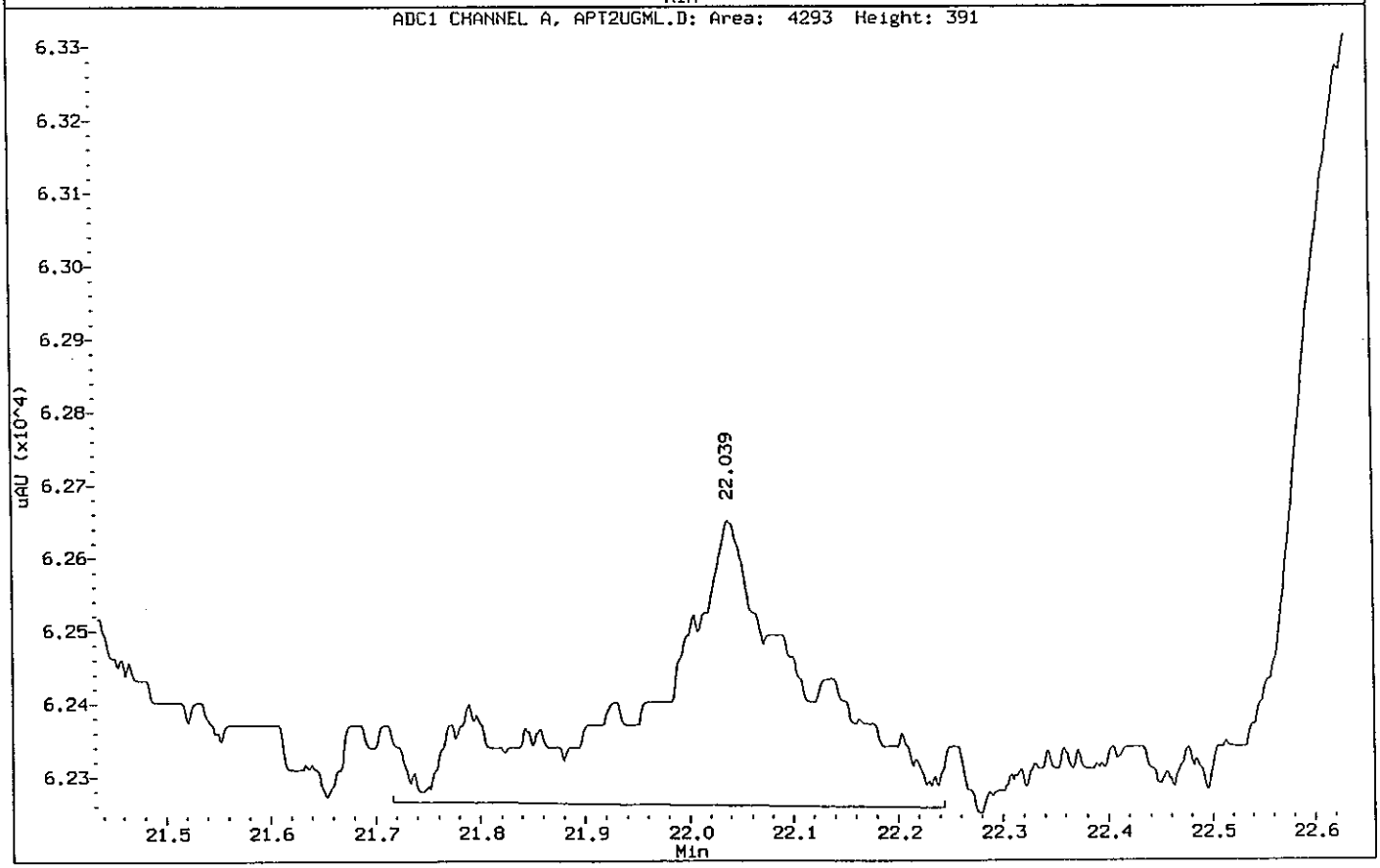
Injection Date: 20-SEP-2001 17:29
Instrument: slc02.i
Client Sample ID: APT2UGML

Compound: Benzo(k)Fluoranthene
CAS Number: 207-08-9





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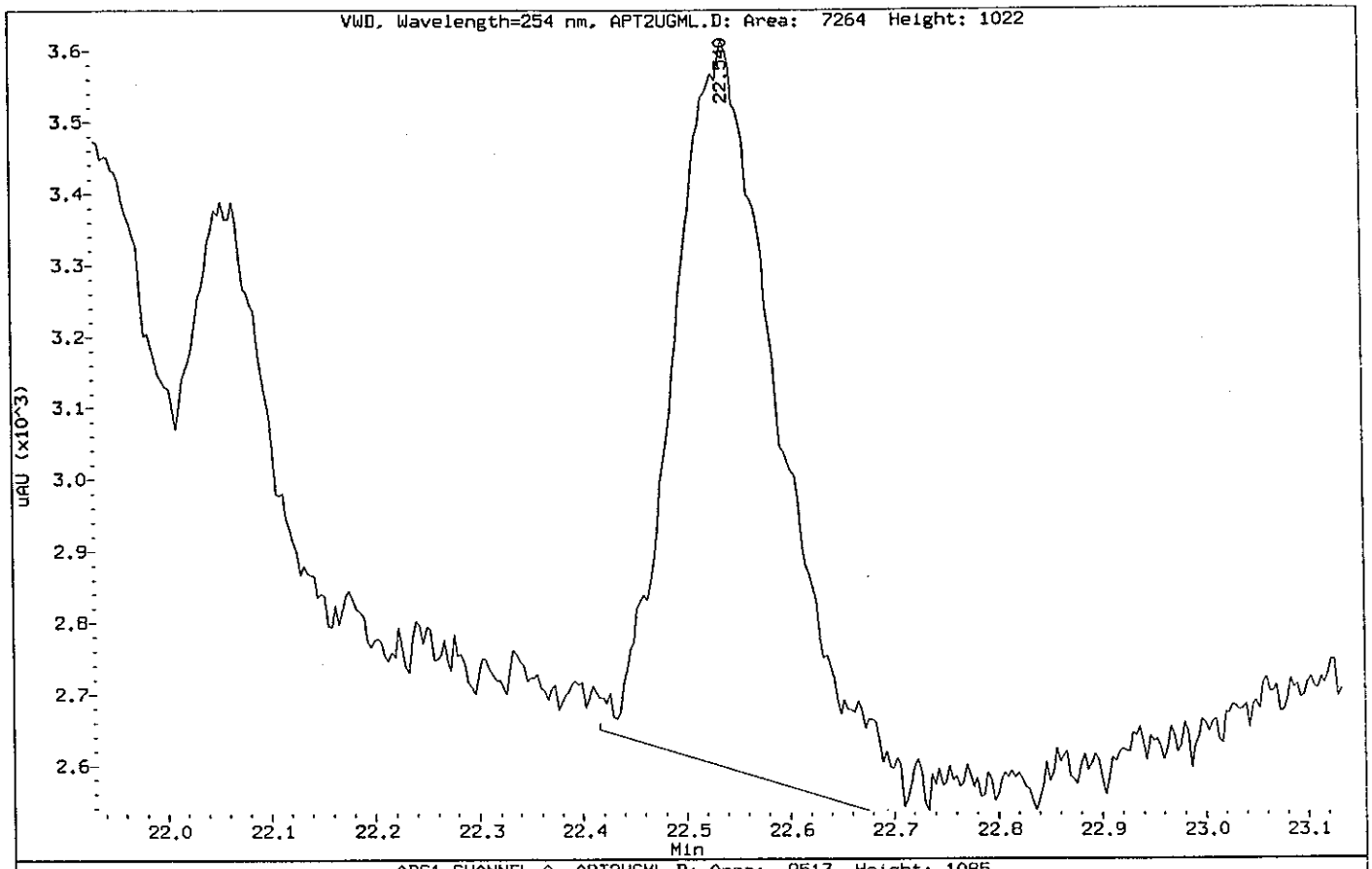
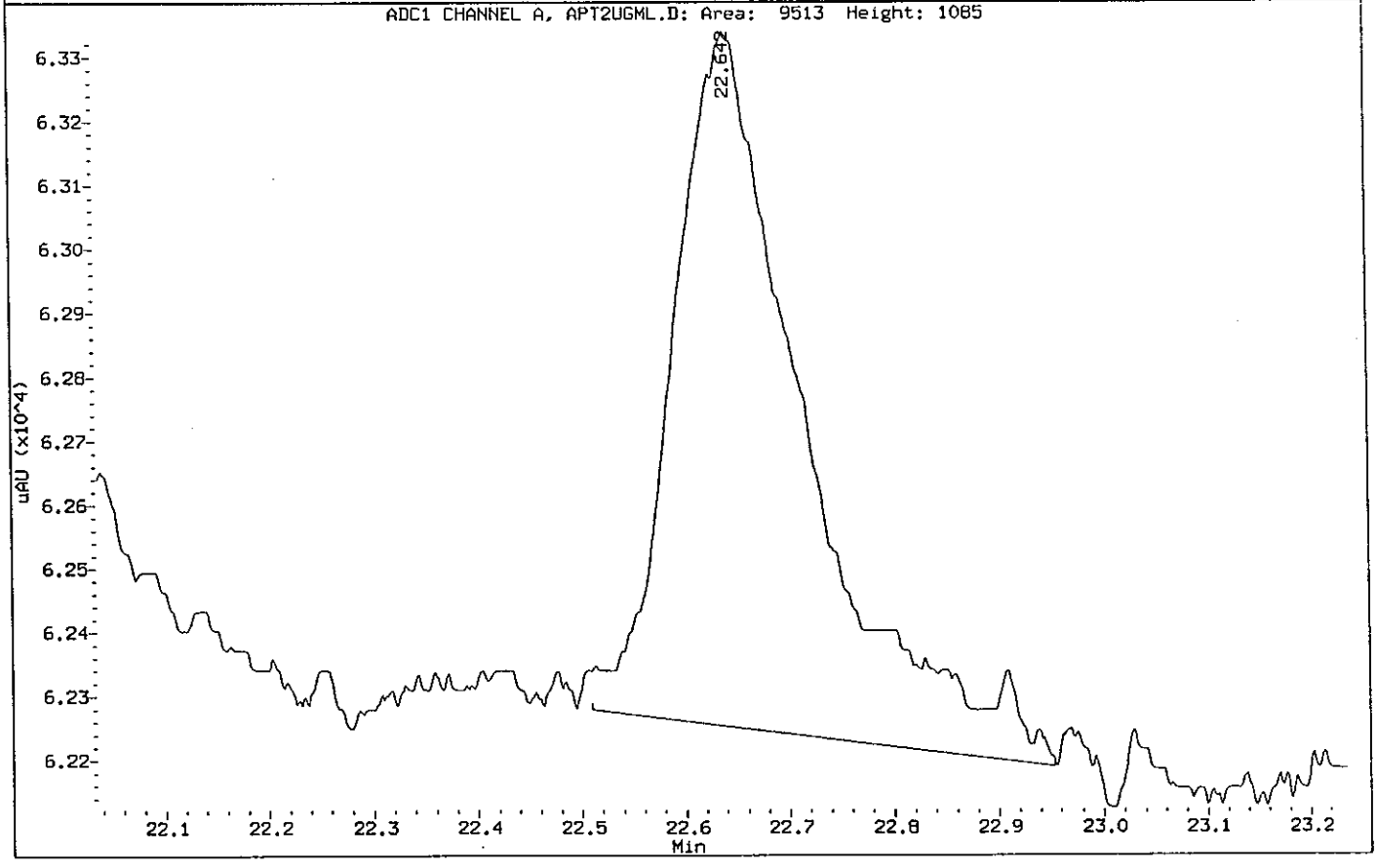
Injection Date: 20-SEP-2001 17:29
Instrument: slc02.i
Client Sample ID: APT2UGML

Compound: Benzo(a)pyrene
CAS Number: 50-32-8





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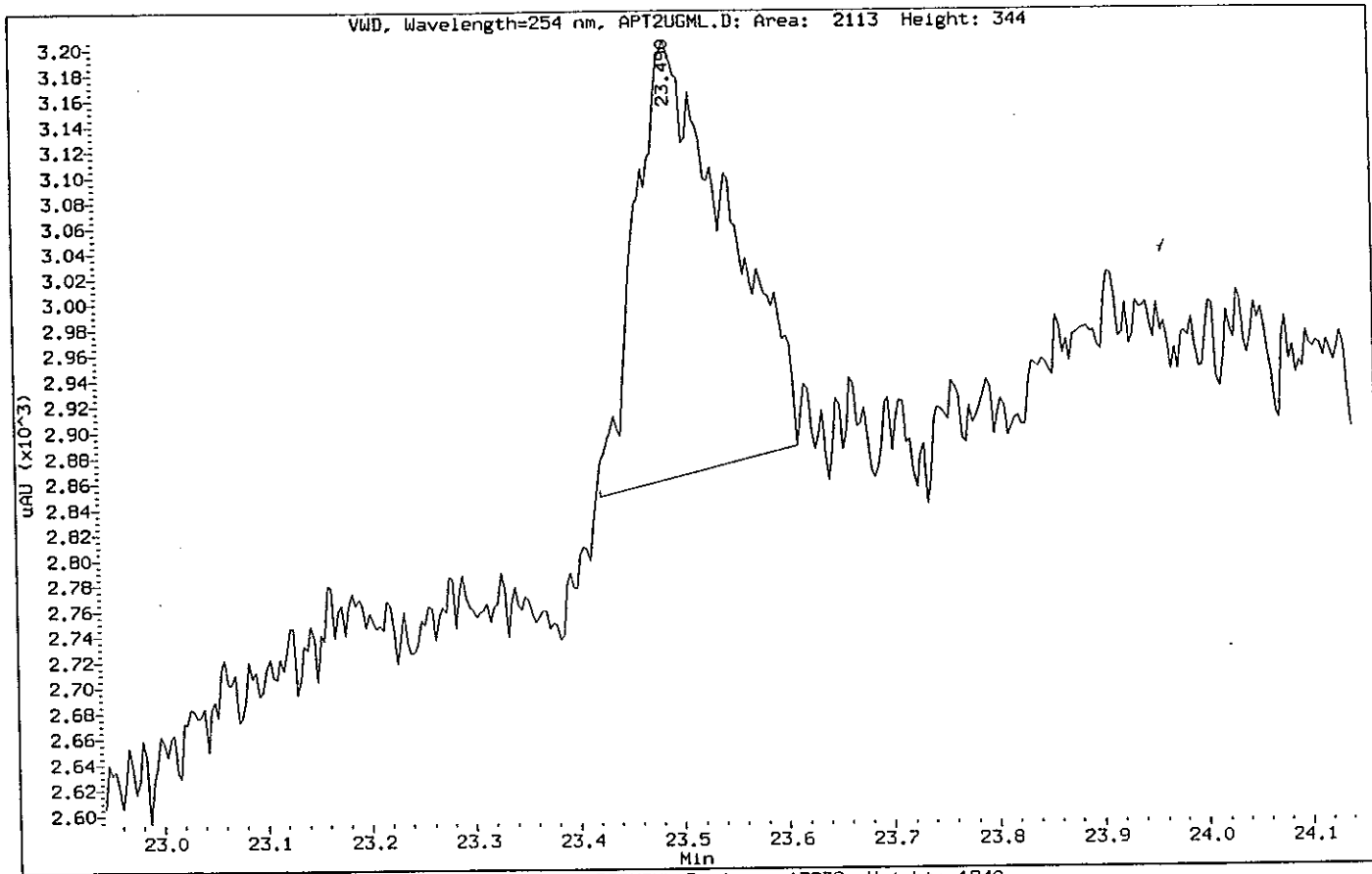
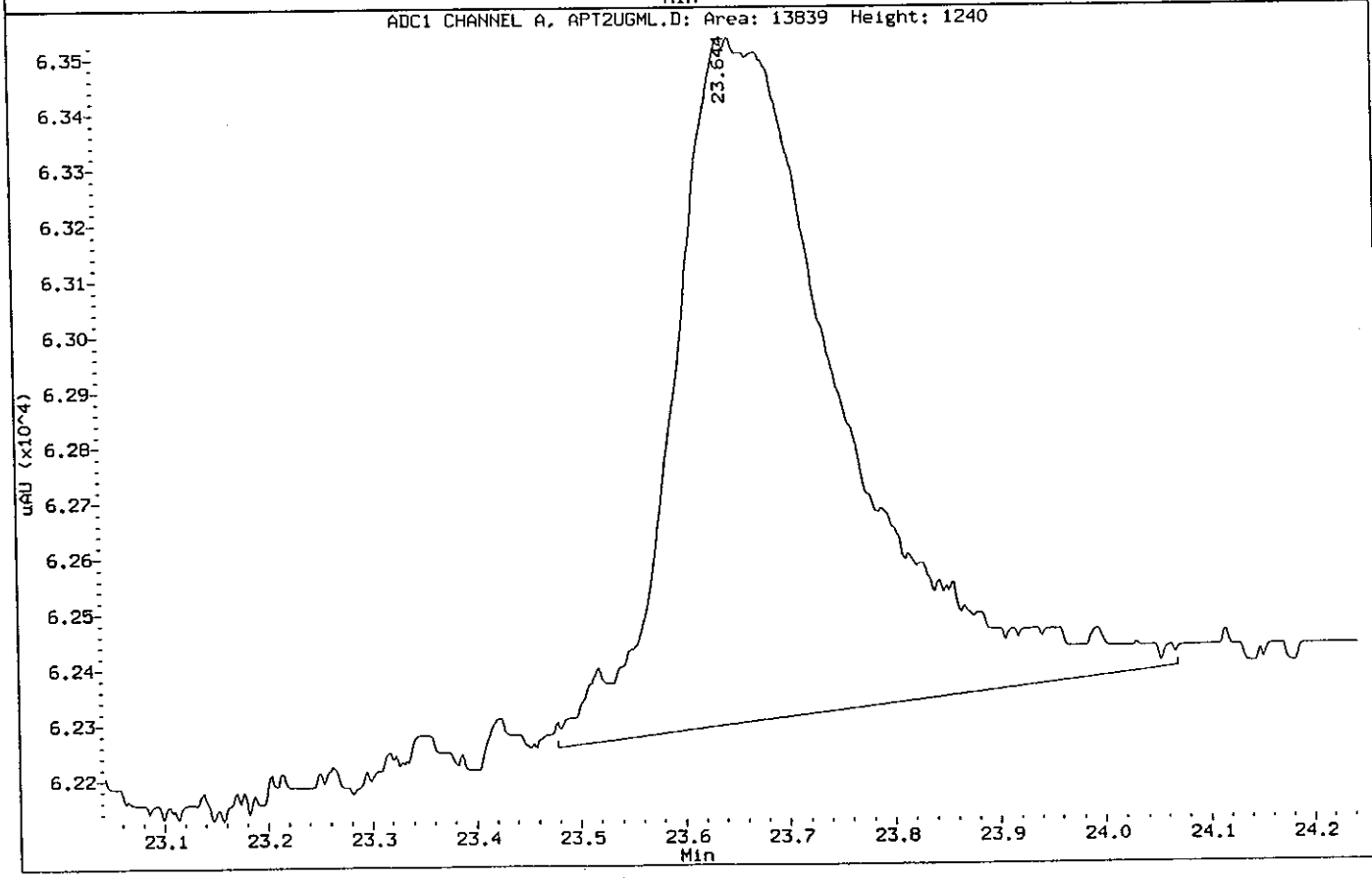
Injection Date: 20-SEP-2001 17:29
Instrument: slc02.i
Client Sample ID: APT2UGML

Compound: Dibenz(ah)Anthracene
CAS Number: 53-70-3





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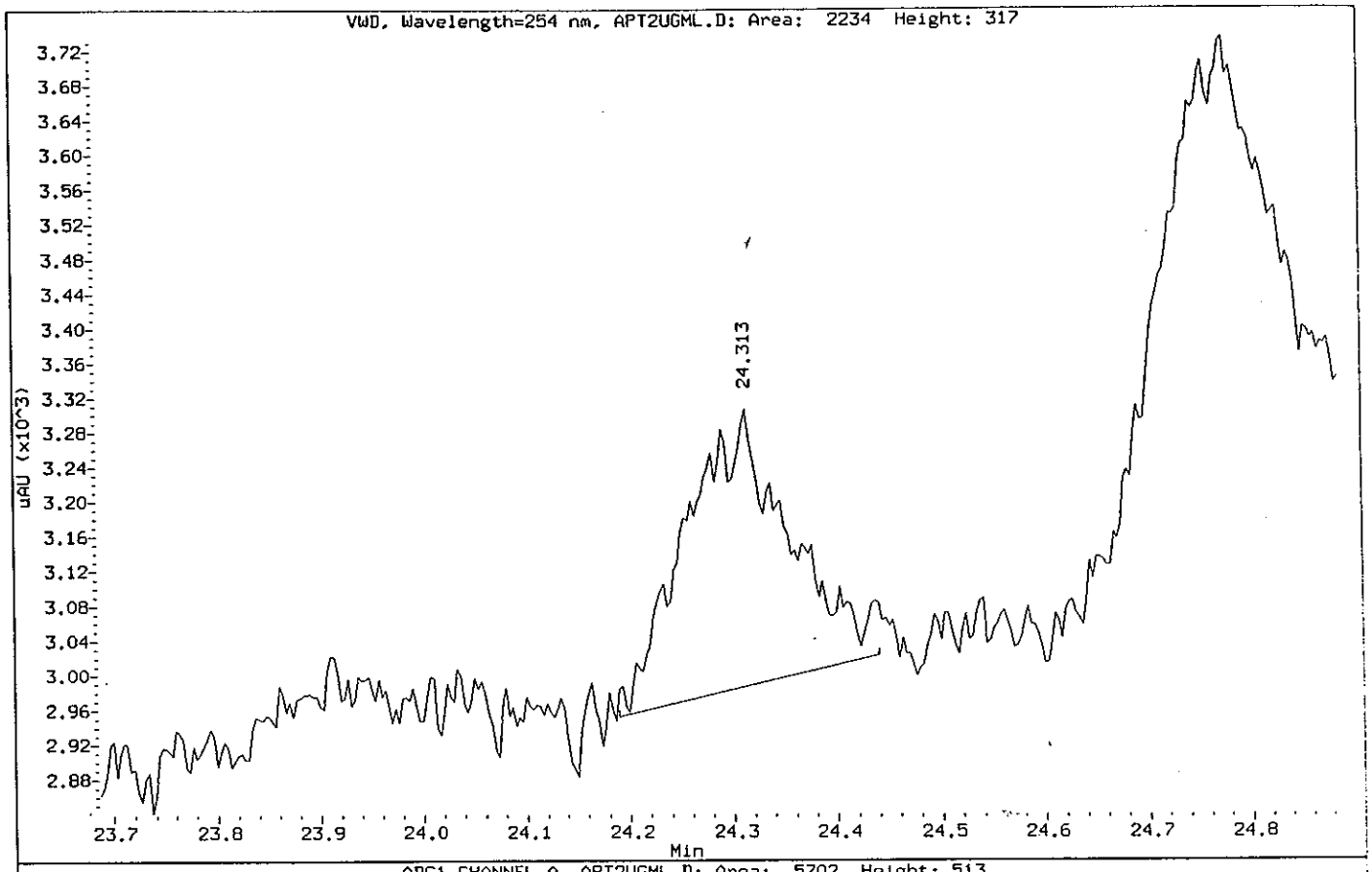
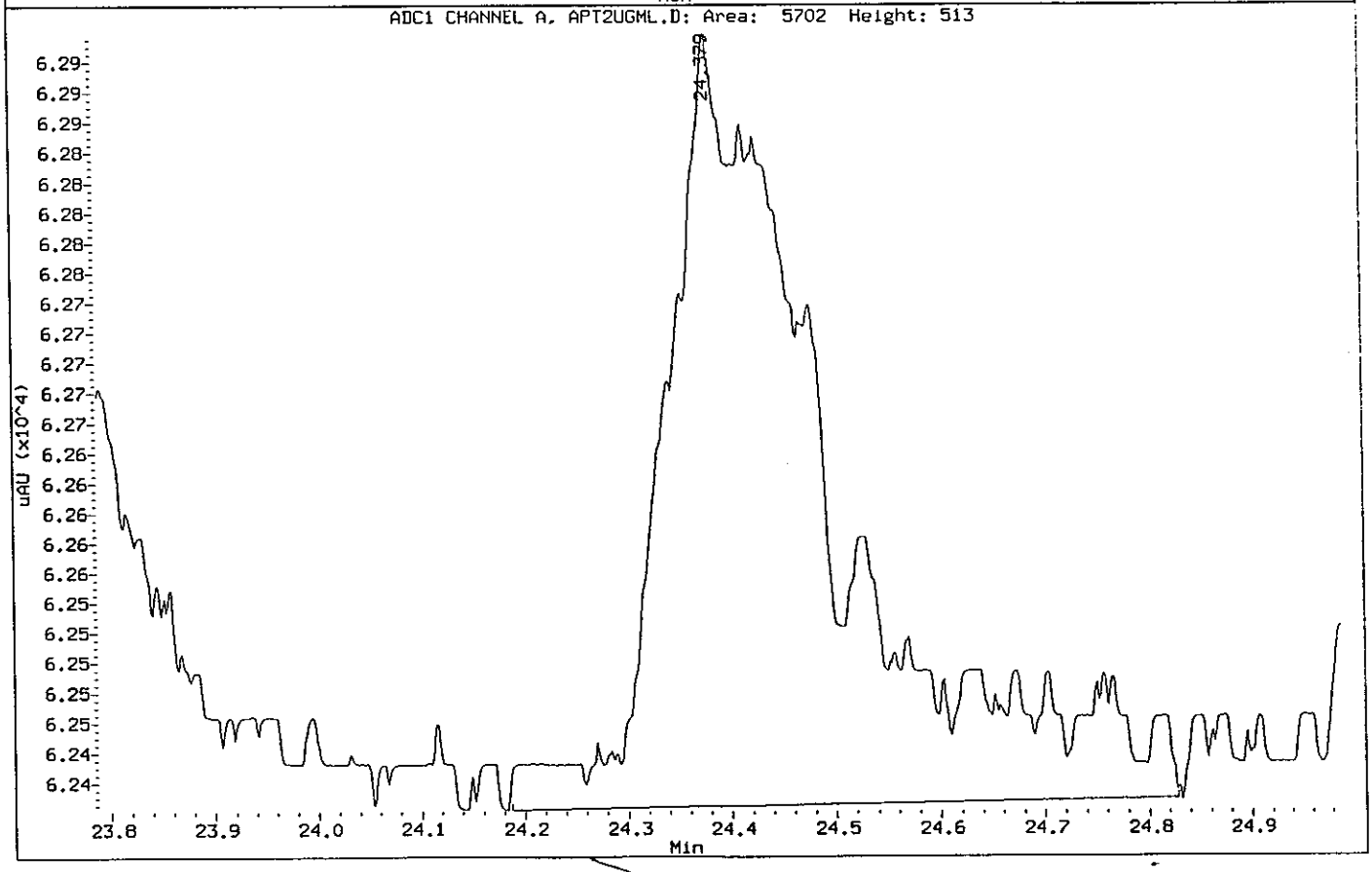
Injection Date: 20-SEP-2001 17:29
Instrument: slc02.i
Client Sample ID: APT2UGML

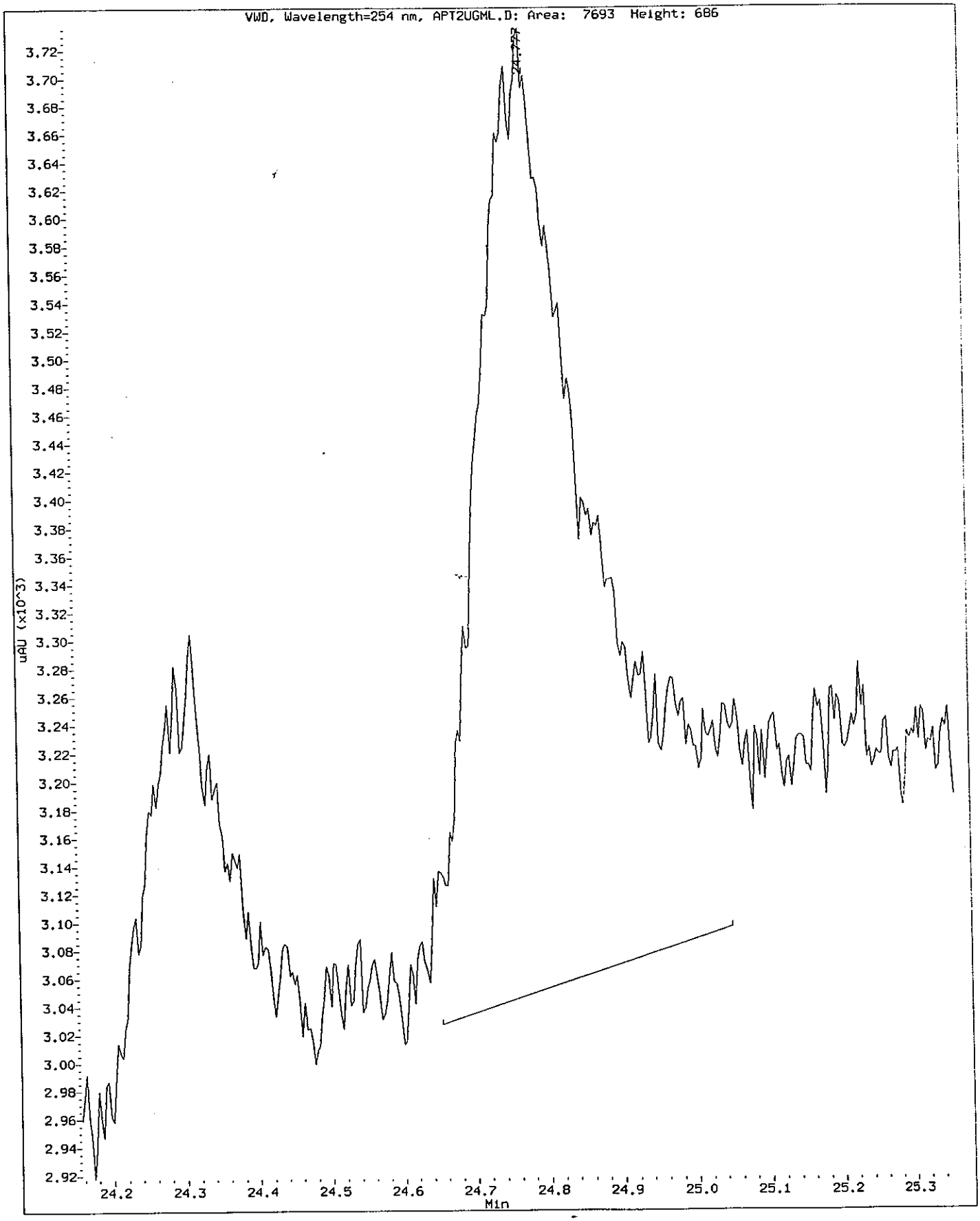
Compound: Benzo(ghi)Perylene
CAS Number: 191-24-2





Data File: \\SVHPLC\ee\chem\slc02.i\RECAL0920A.B\APT2UGML.D
Injection Date: 20-SEP-2001 17:29
Instrument: slc02.i
Client Sample ID: APT2UGML

Compound: Indeno(123cd)Pyrene
CAS Number: 193-39-5



10/25/01 8310 W SEQ 21024C.S

Vial	Data File JMD 10/25/01 ~~Sample name~~	Method	Sample Name
21	CCV SV3206A	8310 A	
21	↓		
1	51236 MB		
2	51237 LCS		
3	51238 BKSPK		
4	51239 BKSPKD		
5	JMD 10/25/01 → MW-6 062E B1W1		102-1 94-20
6	Rinsate		118-01
7	SCC-0		118-02
8	SCC-1		118-03
9	SCC-2		118-04
10	SCC-3		118-05
11	SCC-4		118-06
12	SCC-5		118-07
13			
21	CCV SV3206A		

JMD
10/25/01

PEL Laboratories

Data file : \\SVHPLC\ee\chem\slc02.i\L21024C1.b\CCV1B.D
Lab Smp Id: 15std3206 Client Smp ID: 15std3206
Inj Date : 24-OCT-2001 18:23
Operator : rood Inst ID: slc02.i
Smp Info : CCVSV3206A
Misc Info :
Comment :
Method : \\SVHPLC\ee\chem\slc02.i\L21024C1.b\8310A.m
Meth Date : 02-Nov-2001 11:01 jdonnelly Quant Type: ISTD
Cal Date : 20-SEP-2001 18:48 Cal File: A5UGML.D
Als bottle: 21 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.04 Sample Matrix: WATER
Processing Host: FORMS1

Concentration Formula: Amt * DF * 1/(Vo/1000)*Vt

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume Extracted
Vt	1.000	

	RT	EXP RT	REL RT	SIGNAL	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO
*	1 Carbazole (ISTD)						CAS #: 86-74-8		
	10.593	10.610	(1.000)	VWD1A	239394			80.00- 120.00	100.00(M)
	10.682	10.610	(1.008)	ADC1A	1943340	10.0000		652.03- 978.05	811.77
	2 Naphthalene						CAS #: 91-20-3		
	11.756	11.770	(1.110)	VWD1A	81497	15.0000	16.5	80.00- 120.00	100.00
	11.849	11.770	(1.119)	ADC1A	86409	15.0000	16.0	82.40- 123.60	106.03
	3 Acenaphthylene						CAS #: 208-96-8		
	13.003	13.013	(1.228)	VWD1A	57106	15.0000	15.5		
	4 1-Methyl naphthalene						CAS #: 90-12-0		
	13.630	13.633	(1.287)	VWD1A	50471	15.0000	17.0	80.00- 120.00	100.00
	13.720	13.633	(1.295)	ADC1A	189050	15.0000	16.0	296.60- 444.90	374.57

					AMOUNTS CAL-AMT	ON-COL		
RT	EXP RT	REL RT	SIGNAL	RESPONSE	(ug/ml)	(ug/ml)	TARGET RANGE	RATIO
5 2-Methyl naphthalene						CAS #: 91-57-6		
13.966	13.973	(1.318)	VWD1A	68675	15.0000	16.4	80.00- 120.00	100.00
14.055	13.973	(1.327)	ADC1A	169977	15.0000	16.7	191.55- 287.32	247.51
6 Acenaphthene						CAS #: 83-32-9		
14.300	14.310	(1.350)	VWD1A	31087	15.0000	15.2	80.00- 120.00	100.00
14.395	14.310	(1.359)	ADC1A	380890	15.0000	15.4	964.12-1446.17	1225.24
7 Fluorene						CAS #: 86-73-7		
14.673	14.680	(1.385)	VWD1A	372047	15.0000	16.4	80.00- 120.00	100.00
14.764	14.680	(1.394)	ADC1A	42746	15.0000	15.1	9.06- 13.59	11.49
8 Phenanthrene						CAS #: 85-01-8		
15.490	15.500	(1.462)	VWD1A	1036432	15.0000	16.3	80.00- 120.00	100.00
15.582	15.500	(1.471)	ADC1A	1009183	15.0000	16.6	78.58- 117.87	97.37
9 Anthracene						CAS #: 120-12-7		
16.216	16.223	(1.531)	VWD1A	2247716			80.00- 120.00	100.00
16.309	16.223	(1.540)	ADC1A	143441	15.0000	16.4	5.00- 7.50	6.38
10 Fluoranthene						CAS #: 206-44-0		
17.060	17.066	(1.610)	VWD1A	241392	15.0000	15.9	80.00- 120.00	100.00(M)
17.154	17.066	(1.619)	ADC1A	17986	15.0000	14.9	6.36- 9.54	7.45
11 Pyrene						CAS #: 129-00-0		
17.603	17.606	(1.662)	VWD1A	198747	15.0000	17.0	80.00- 120.00	100.00(M)
17.702	17.606	(1.671)	ADC1A	2472614	15.0000	20.5	930.64-1395.96	1244.10
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.590	18.593	(1.755)	VWD1A	222607	15.0000	17.0	80.00- 120.00	100.00(M)
18.684	18.593	(1.764)	ADC1A	6147489	15.0000	15.6	2246.35-3369.53	2761.59
13 Benzo(a)Anthracene						CAS #: 56-55-3		
19.423	19.426	(1.834)	VWD1A	581229	15.0000	16.2	80.00- 120.00	100.00
19.517	19.426	(1.842)	ADC1A	6513364	15.0000	15.7	881.58-1322.37	1120.62
14 Chrysene						CAS #: 218-01-9		
19.813	19.820	(1.870)	VWD1A	812527	15.0000	16.1	80.00- 120.00	100.00
19.909	19.820	(1.879)	ADC1A	1963956	15.0000	16.5	190.14- 285.21	241.71
15 Benzo(b)Fluoranthene						CAS #: 205-99-2		
21.250	21.253	(2.006)	VWD1A	651272	15.0000	16.8	80.00- 120.00	100.00
21.345	21.253	(2.015)	ADC1A	172692	15.0000	15.8	20.85- 31.28	26.52
16 Benzo(k)Fluoranthene						CAS #: 207-08-9		
21.876	21.883	(2.065)	VWD1A	492140	15.0000	16.4	80.00- 120.00	100.00

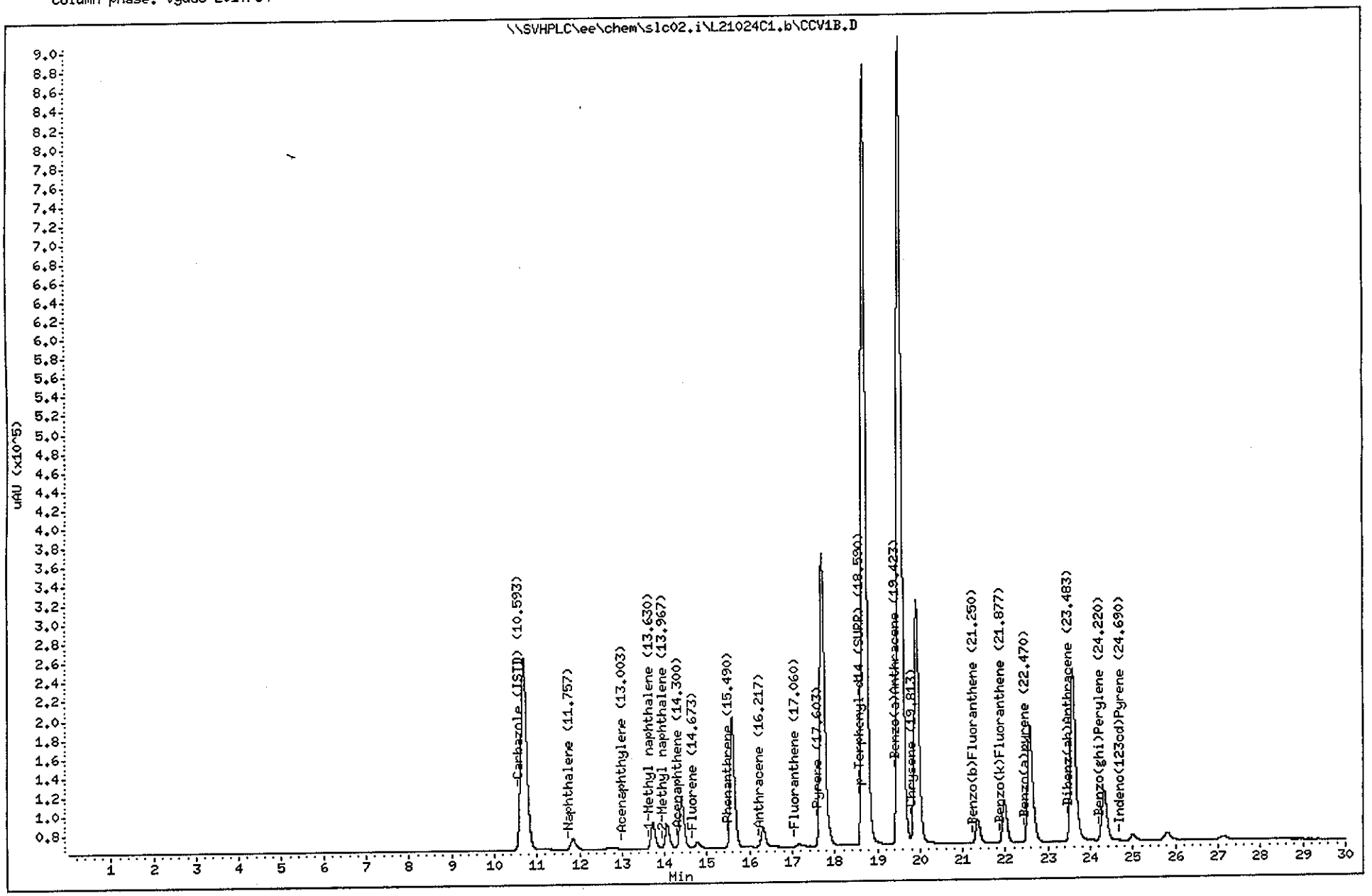
RT	EXP RT	REL RT	SIGNAL	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
16 Benzo(k)Fluoranthene (continued)									
21.974	21.883	(2.074)	ADC1A	329535	15.0000	15.5	52.76- 79.15	66.96	
17 Benzo(a)pyrene						CAS #: 50-32-8			
22.470	22.476	(2.121)	VWD1A	581644	15.0000	16.8	80.00- 120.00	100.00	
22.567	22.476	(2.130)	ADC1A	1027636	15.0000	16.8	138.13- 207.19	176.68	
18 Dibenz(ah)Anthracene						CAS #: 53-70-3			
23.483	23.493	(2.217)	VWD1A	137065	15.0000	16.1	80.00- 120.00	100.00	
23.584	23.493	(2.226)	ADC1A	1581244	15.0000	15.7	949.04-1423.56	1153.65	
19 Benzo(ghi)Perylene						CAS #: 191-24-2			
24.220	24.226	(2.286)	VWD1A	220323			80.00- 120.00	100.00	
24.314	24.226	(2.295)	ADC1A	459327	15.0000	15.6	155.32- 232.98	208.48	
20 Indeno(123cd)Pyrene						CAS #: 193-39-5			
24.690	24.703	(2.331)	VWD1A	582258	15.0000	16.3			(M)

QC Flag Legend

M - Compound response manually integrated.

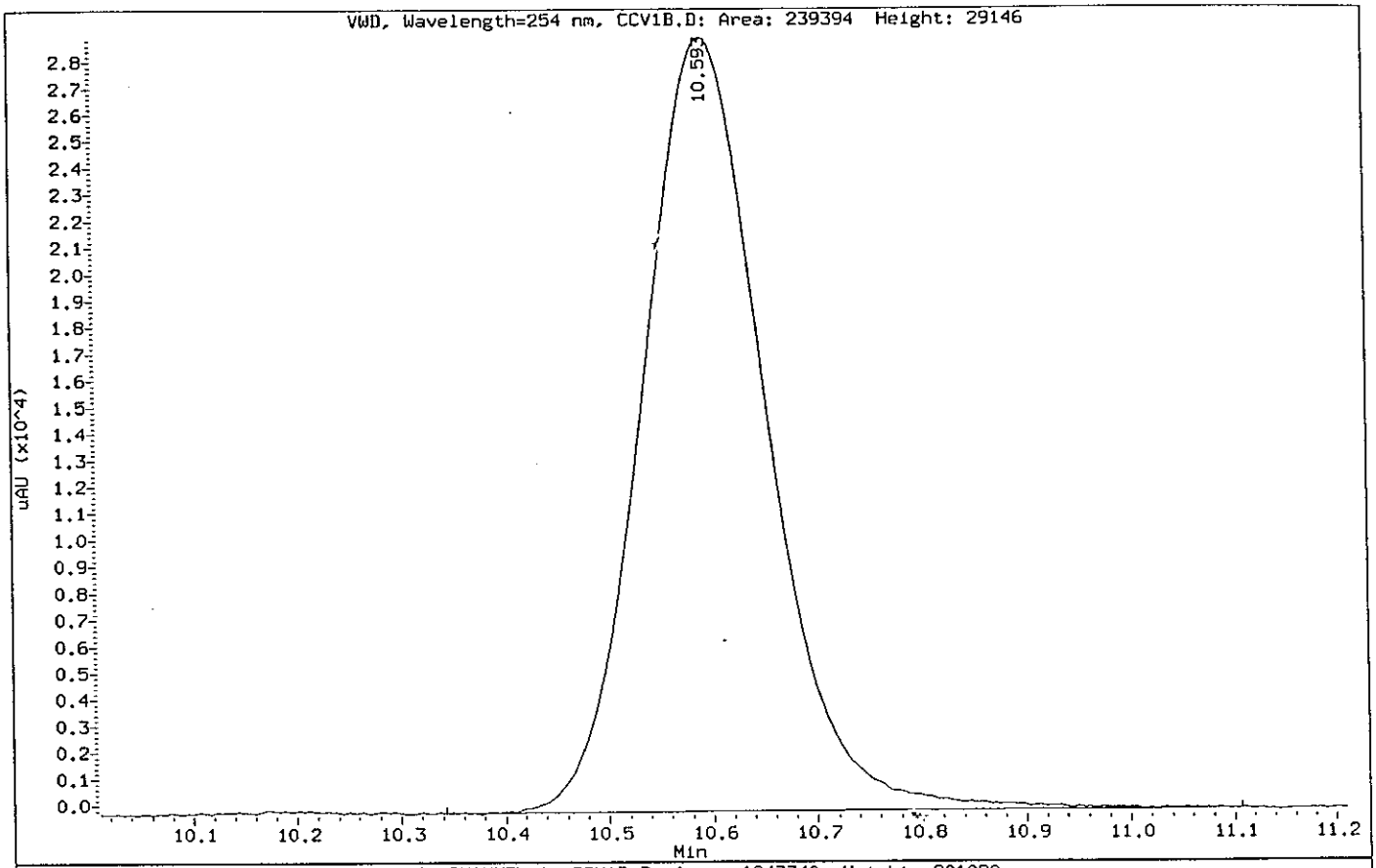
Data File: \\SVHPLC\ee\chem\slc02.i\L21024C1.b\CCV1B.D
Date : 24-OCT-2001 18:23
Client ID: 15std3206
Sample Info: CCVSV3206A
Purge Volume: 1000.0
Column phase: Vydac 201TP54

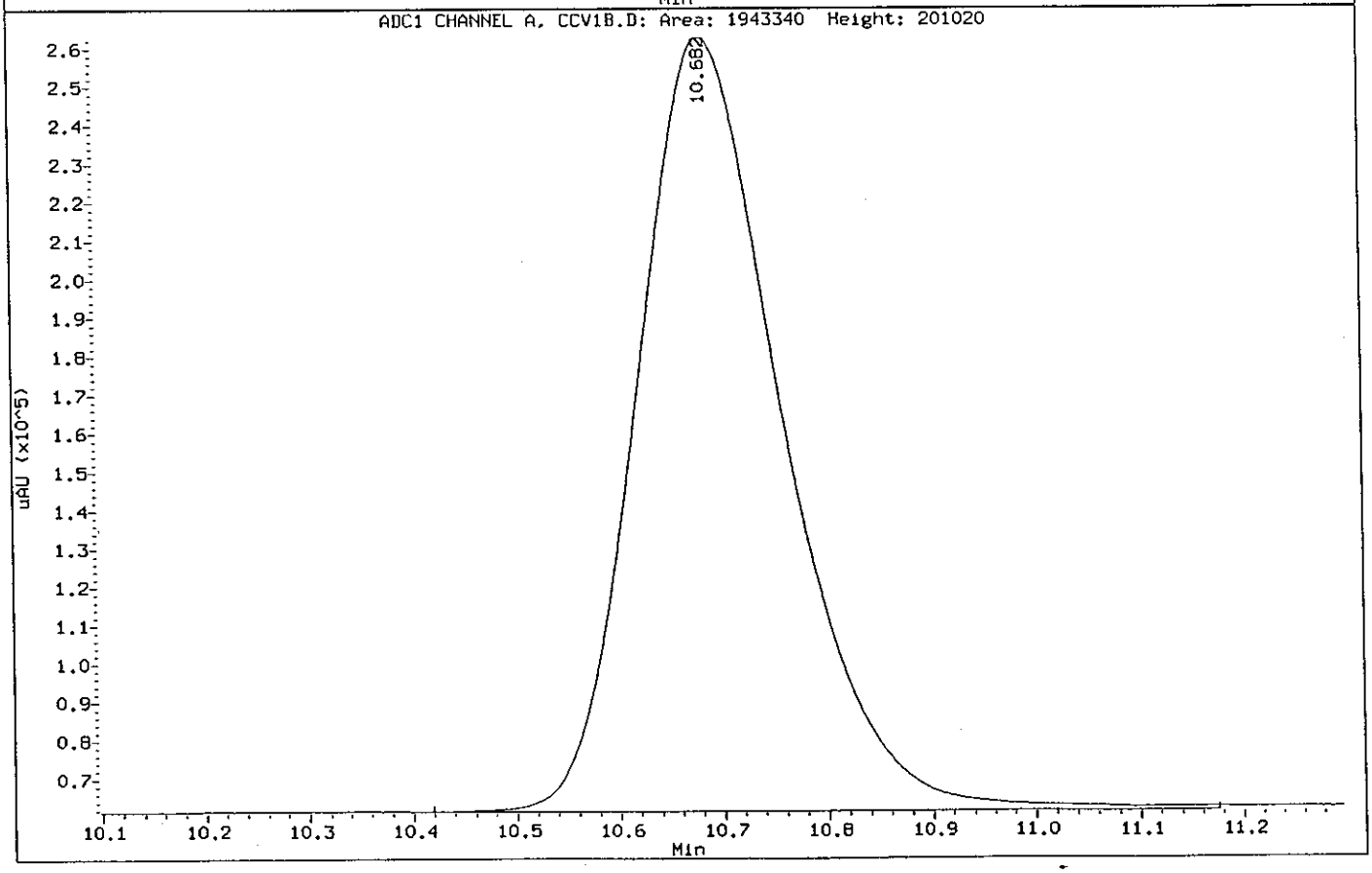
Instrument: slc02.i
Operator: rood
Column diameter: 4.60



Data File: \\SVHPLC\ee\chem\slc02.i\L21024C1.b\CCV1B.D
Injection Date: 24-OCT-2001 18:23
Instrument: slc02.i
Client Sample ID: 15std3206

Compound: Carbazole (ISTD)
CAS Number: 86-74-8

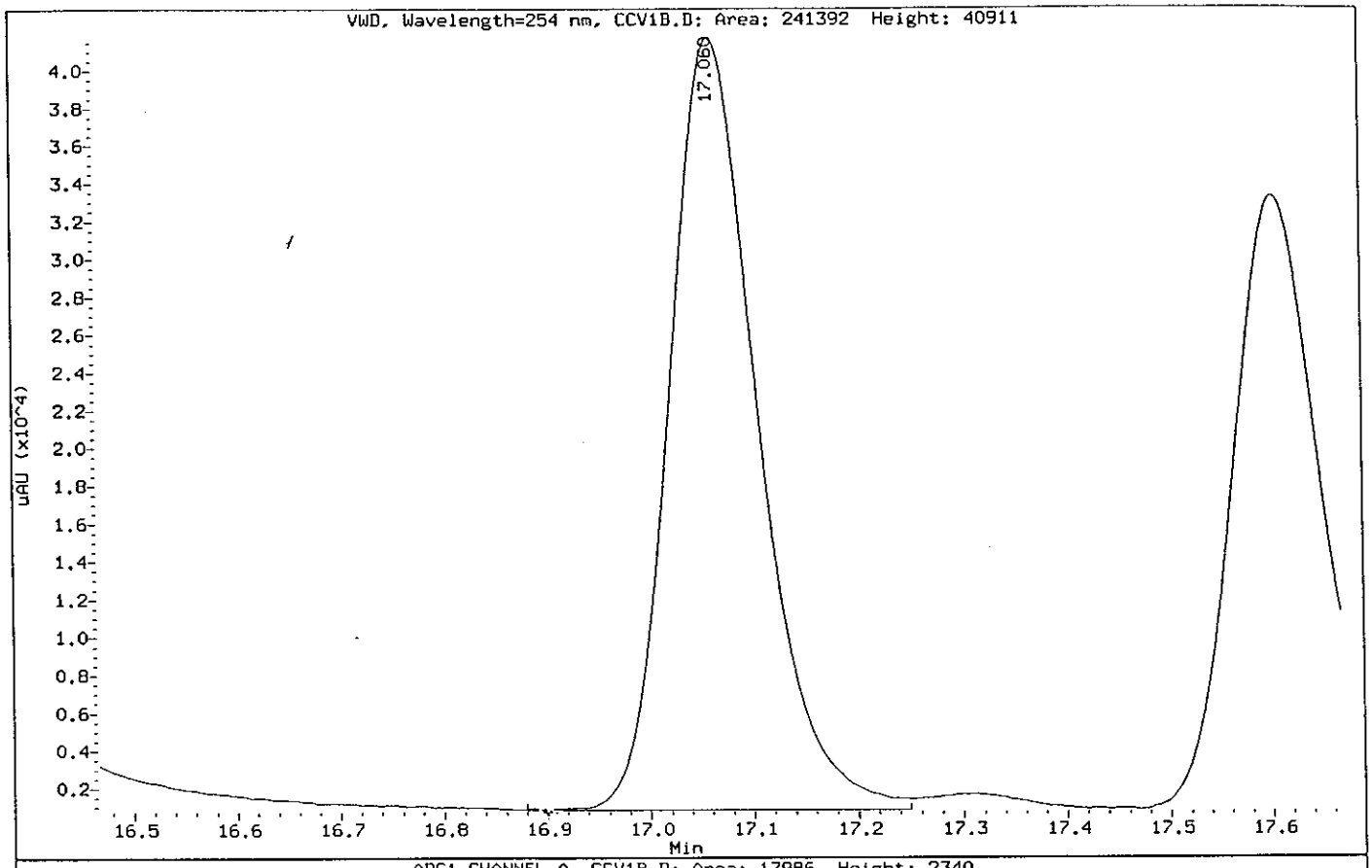


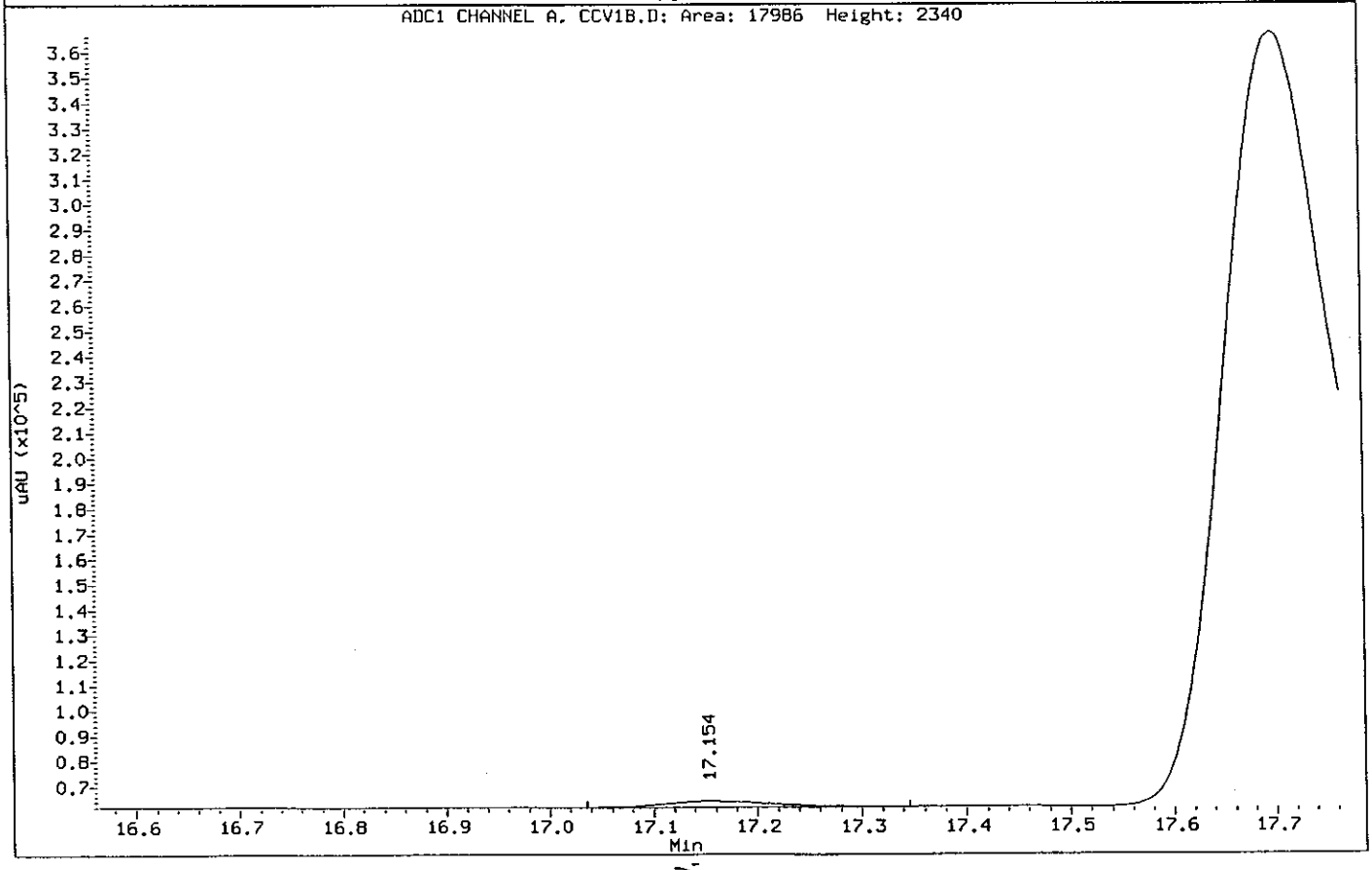


TMP

Data File: \\SVHPLC\ee\chem\slc02.i\L21024C1.b\CCV1B.D
Injection Date: 24-OCT-2001 18:23
Instrument: slc02.i
Client Sample ID: 15std3206

Compound: Fluoranthene
CAS Number: 206-44-0

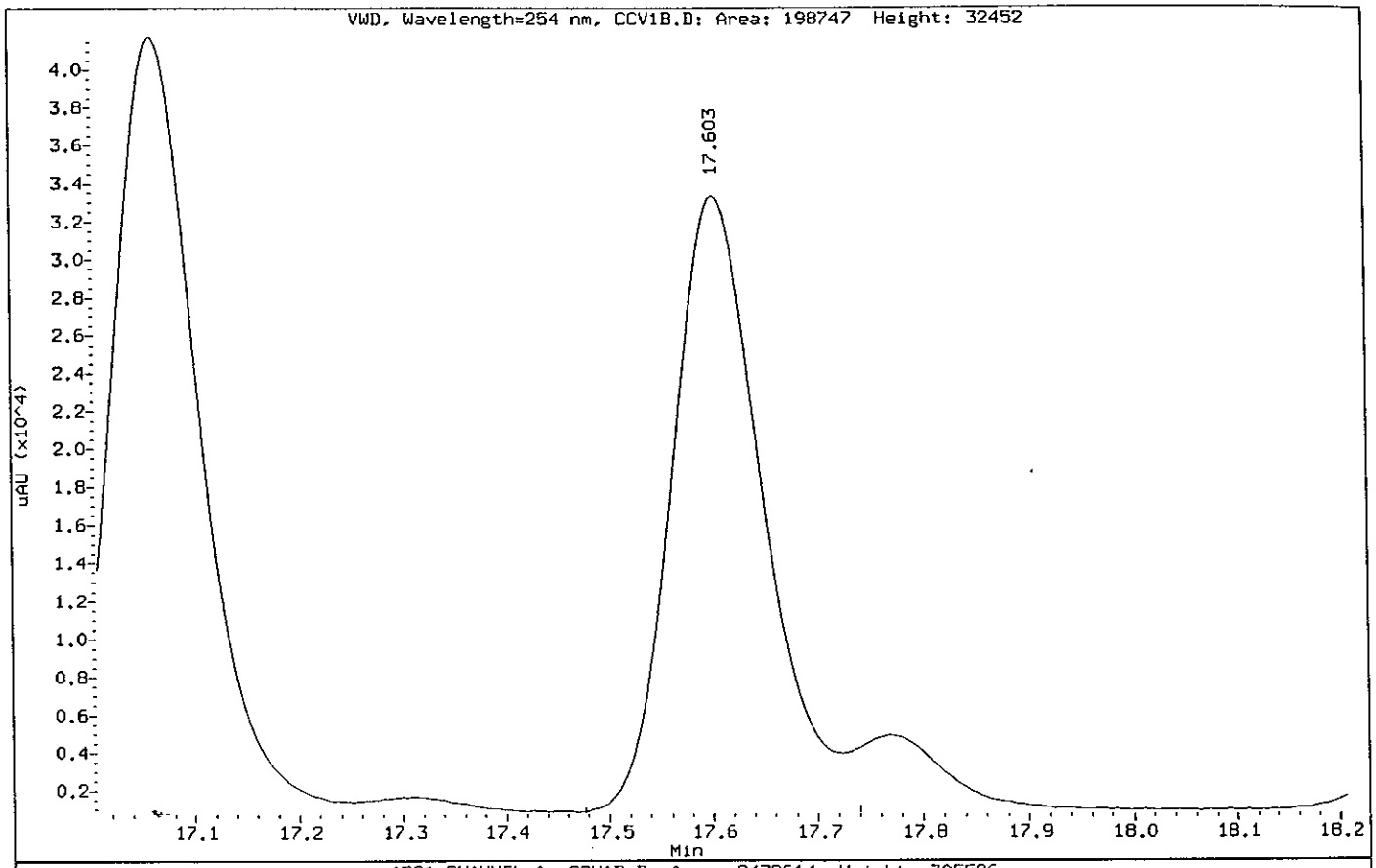


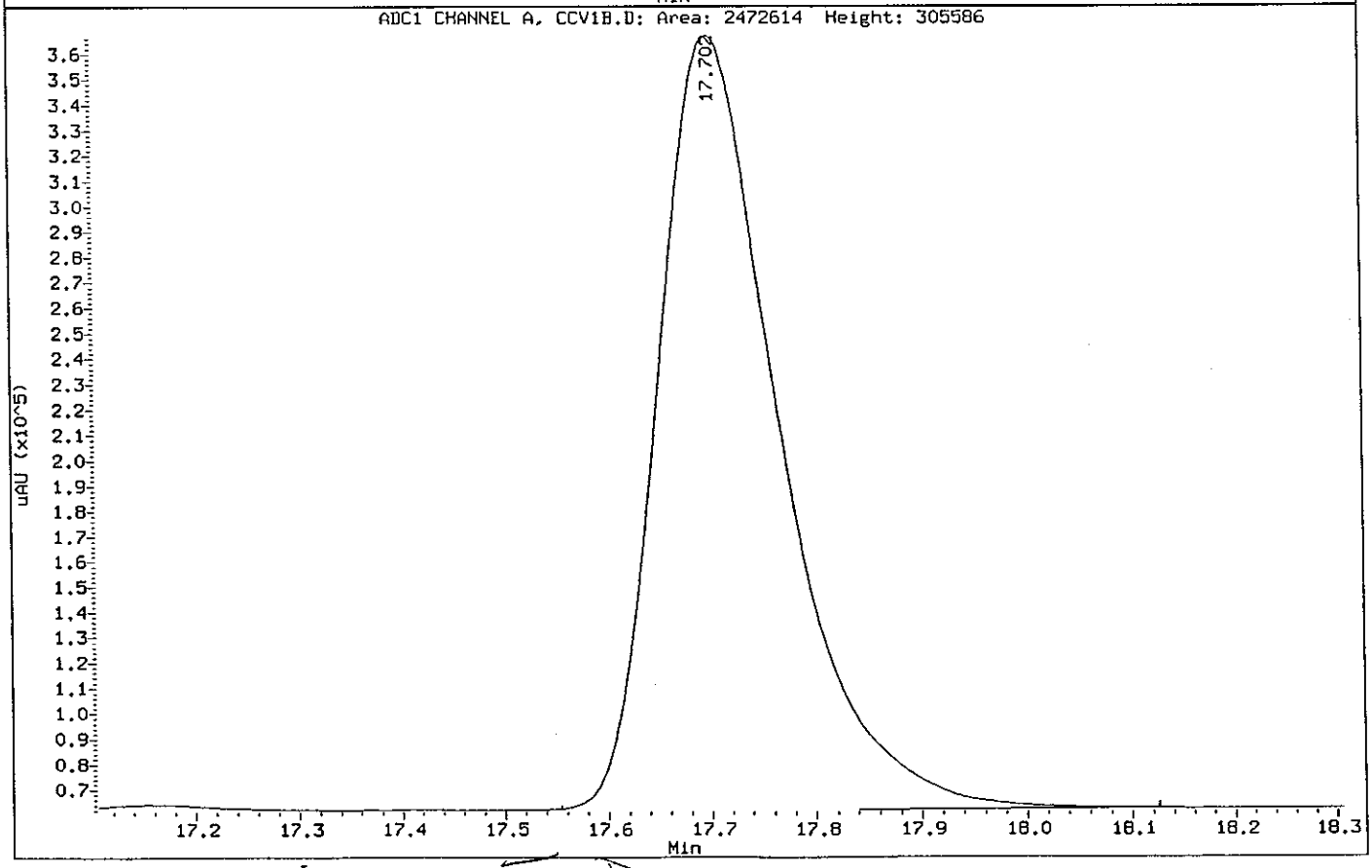


JMD

Data File: \\SVHPLC\ee\chem\slc02.i\L21024C1.b\CCV1B.D
Injection Date: 24-OCT-2001 18:23
Instrument: slc02.i
Client Sample ID: 15std3206

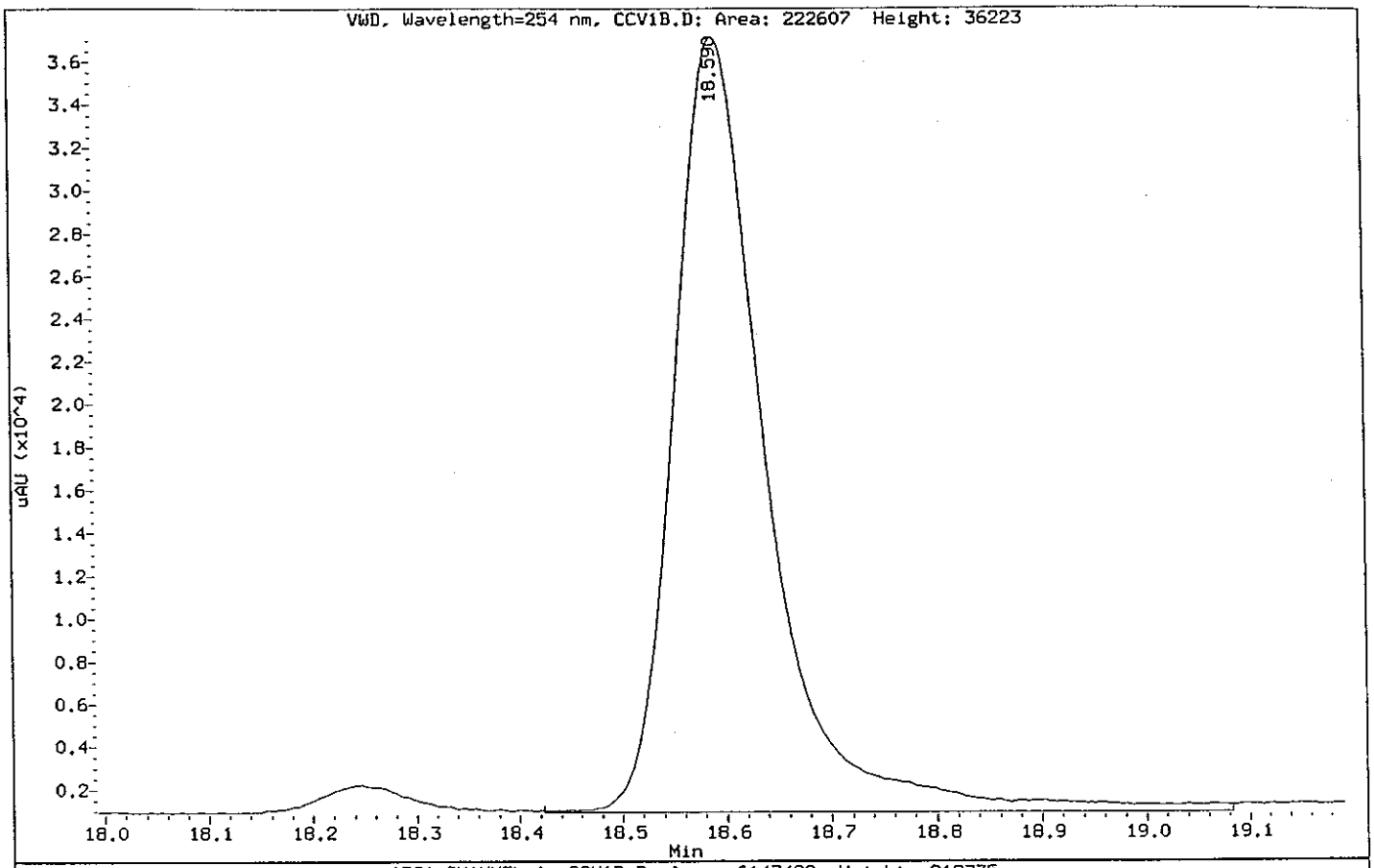
Compound: Pyrene
CAS Number: 129-00-0

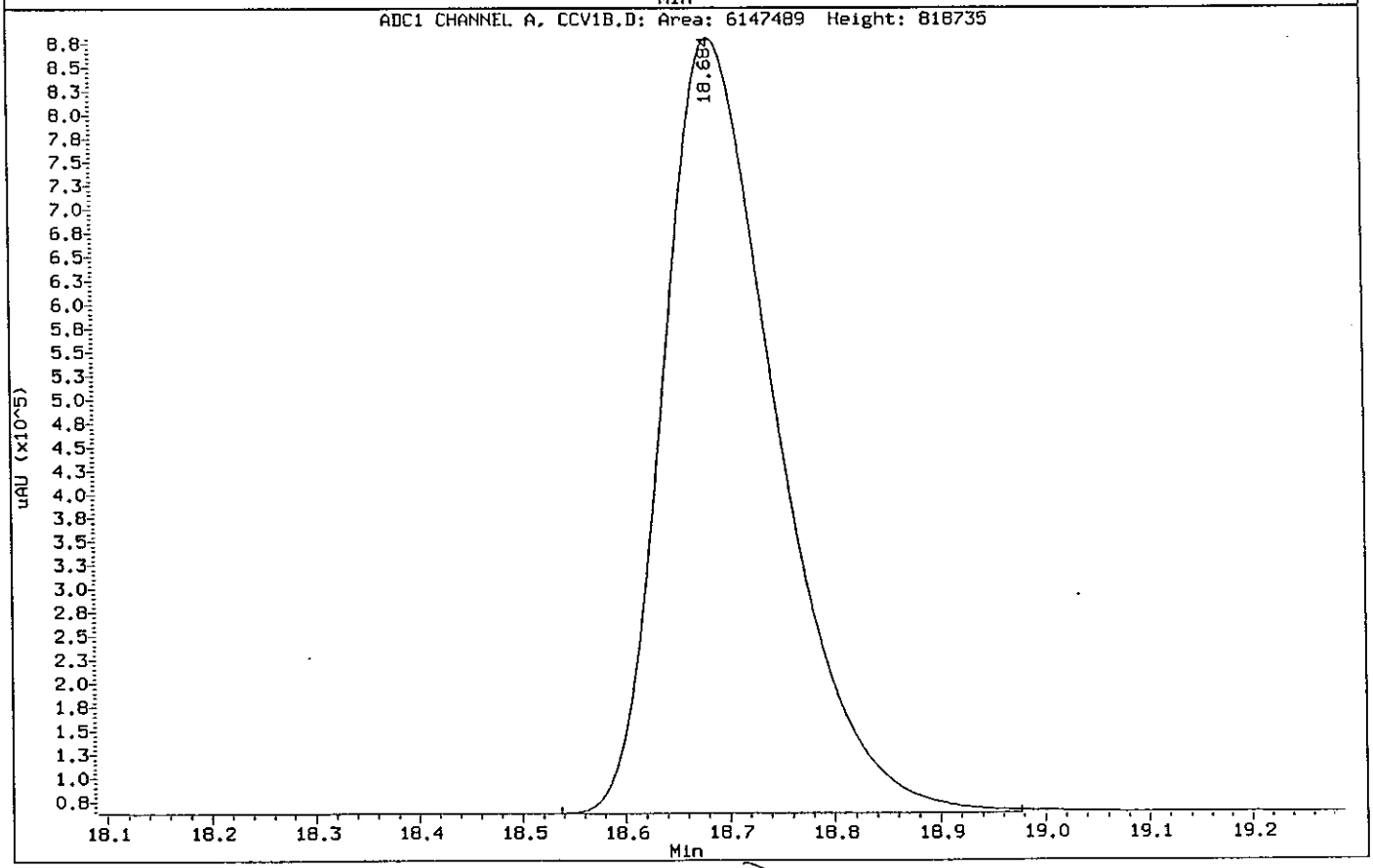




Data File: \\SVHPLC\ee\chem\slc02.i\L21024C1.b\CCV1B.D
Injection Date: 24-OCT-2001 18:23
Instrument: slc02.i
Client Sample ID: 15std3206

Compound: p-Terphenyl-d14 (SURR)
CAS Number: 1718-51-0

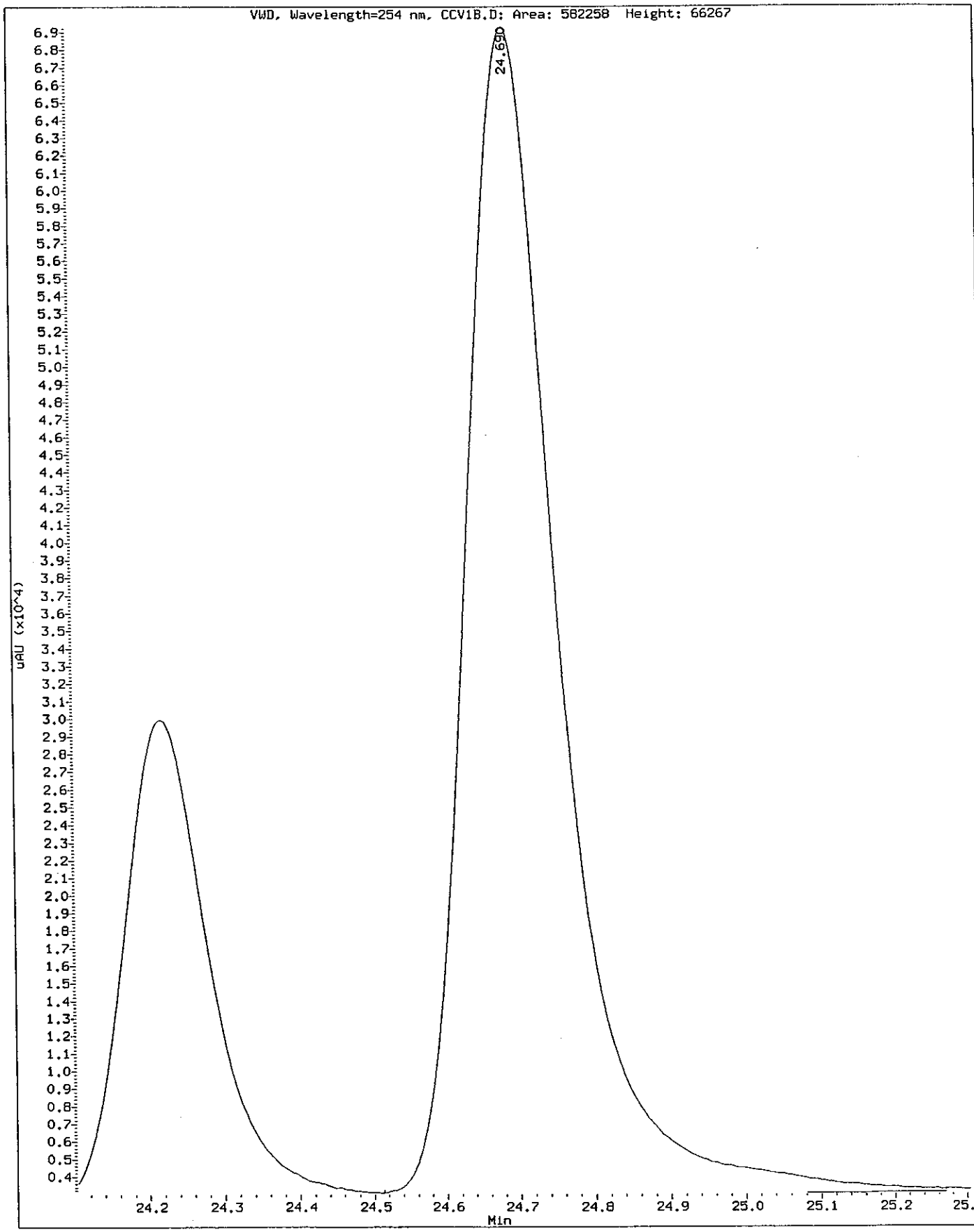




JMD

Data File: \\SVHPLC\ee\chem\slc02.i\L21024C1.b\CCV1B.D
Injection Date: 24-OCT-2001 18:23
Instrument: slc02.i
Client Sample ID: 15std3206

Compound: Indeno(123cd)Pyrene
CAS Number: 193-39-5



PEL Laboratories

Data file : \\SVHPLC\ee\chem\slc02.i\L21024C1.b\BLKA1.D
Lab Smp Id: 51236 Client Smp ID: BLKA1
Inj Date : 24-OCT-2001 18:57
Operator : rood Inst ID: slc02.i
Smp Info : 51236
Misc Info :
Comment :
Method : \\SVHPLC\ee\chem\slc02.i\L21024C1.b\8310A.m
Meth Date : 02-Nov-2001 11:01 jdonnelly Quant Type: ISTD
Cal Date : 20-SEP-2001 18:48 Cal File: A5UGML.D
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: lowcalw.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	

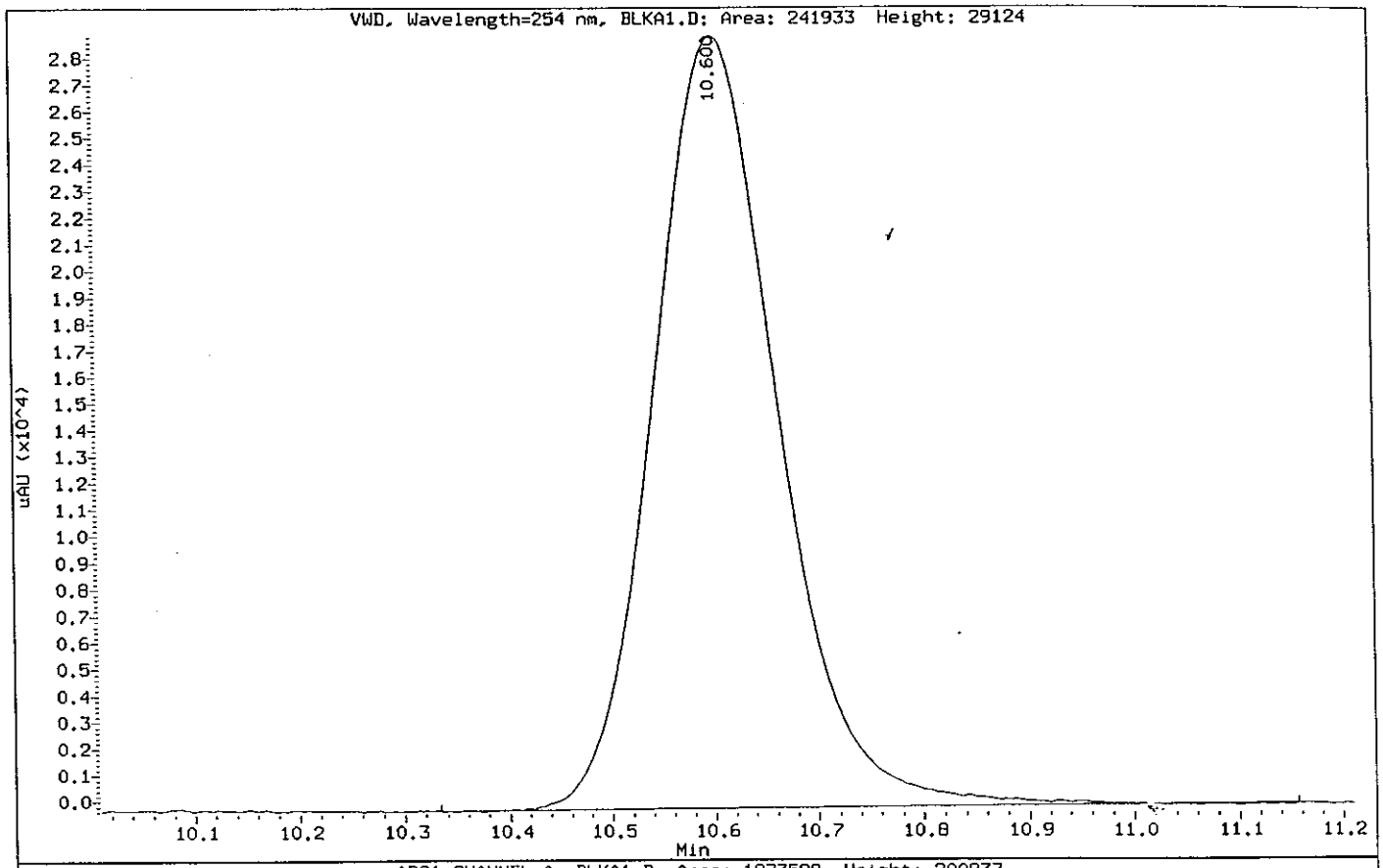
RT	EXP RT	REL RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/l)	TARGET RANGE	RATIO
* 1 Carbazole (ISTD)						CAS #: 86-74-8		
10.600	10.610	(1.000)	VWD1A	241933			80.00- 120.00	100.00(M)
10.692	10.610	(1.009)	ADC1A	1973588	10.0000		652.03- 978.05	815.76
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.603	18.593	(1.755)	VWD1A	206791	15.5374	15.5	80.00- 120.00	100.00
18.697	18.593	(1.764)	ADC1A	5875131	14.6552	14.6	2246.35-3369.53	2841.10

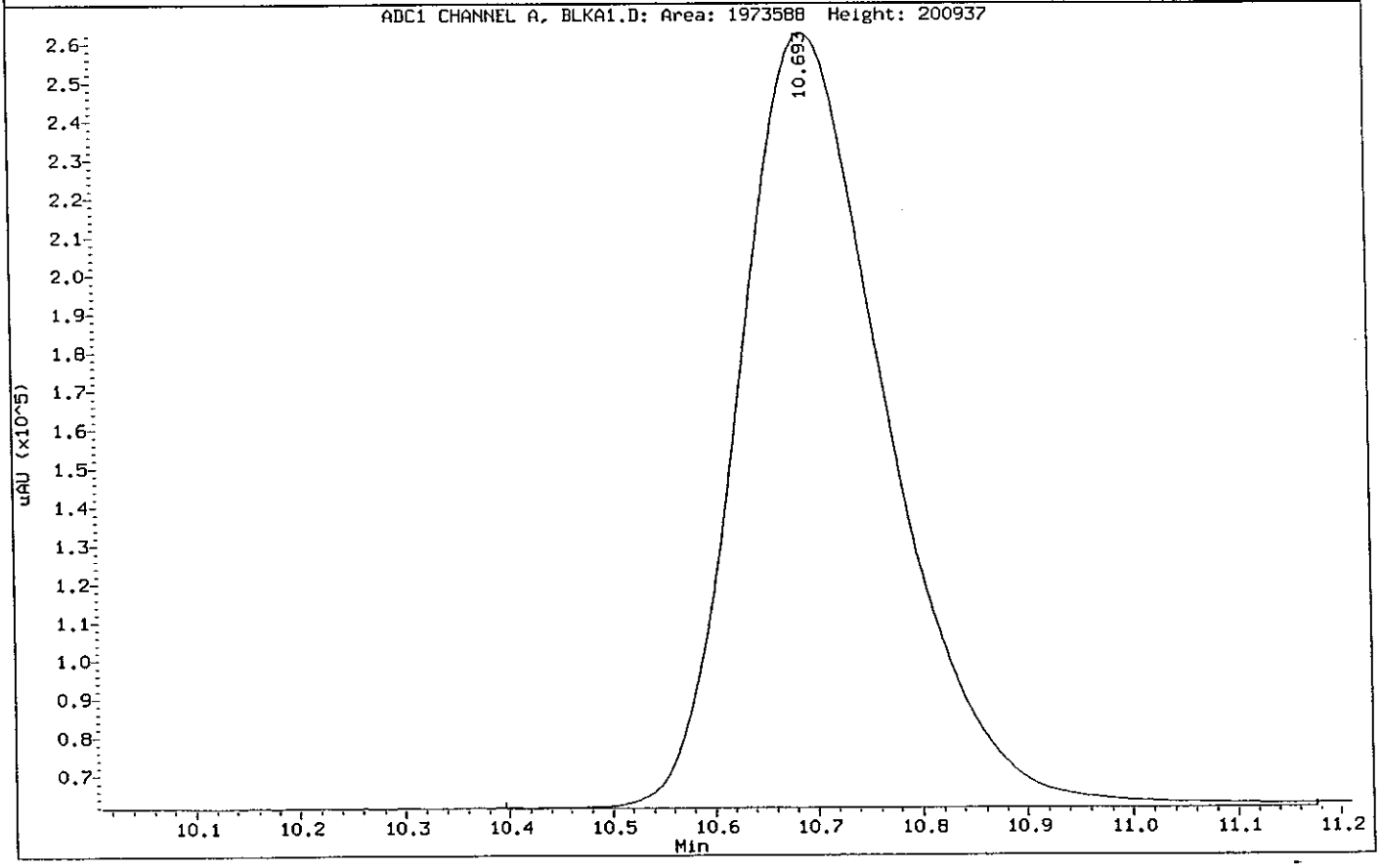
QC Flag Legend

M - Compound response manually integrated.

Data File: \\SVHPLC\ee\chem\slc02.i\L21024C1.b\BLKA1.D
Injection Date: 24-OCT-2001 18:57
Instrument: slc02.i
Client Sample ID: BLKA1

Compound: Carbazole (ISTD)
CAS Number: 86-74-8

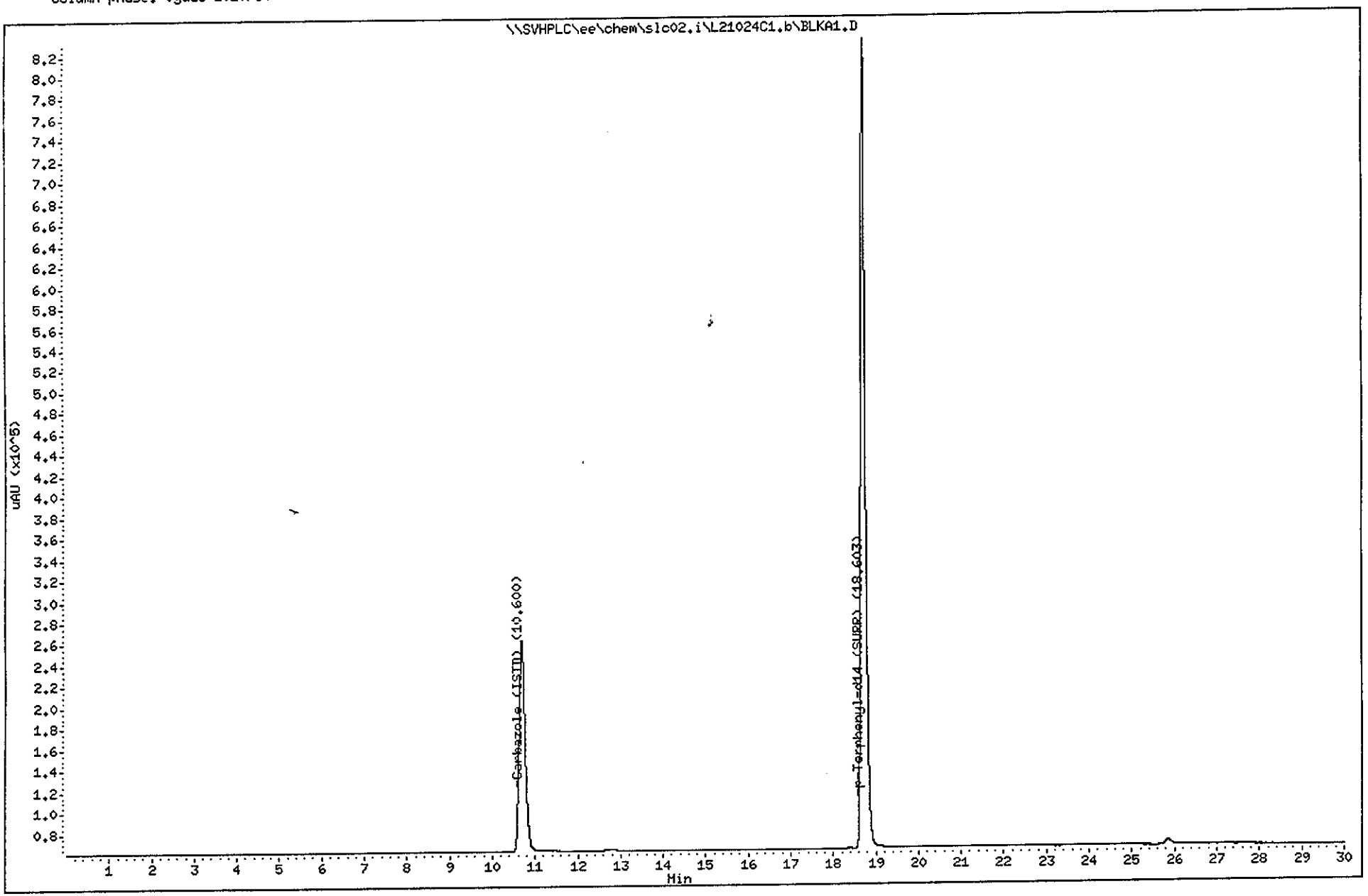




Data File: \\SVHPLC\ee\chem\slc02.i\L21024C1.b\BLKA1.D
Date : 24-OCT-2001 18:57
Client ID: BLKA1
Sample Info: 51236
Purge Volume: 1000.0
Column phase: Vydac 201TP54

Instrument: slc02.i

Operator: rood
Column diameter: 4.60



PEL Laboratories

Data file : \\SVHPLC\ee\chem\slc02.i\L21024C1.b\BLKA1MS.D
Lab Smp Id: 51238 Client Smp ID: BLKA1MS
Inj Date : 24-OCT-2001 20:06
Operator : rood Inst ID: slc02.i
Smp Info : 51238
Misc Info :
Comment :
Method : \\SVHPLC\ee\chem\slc02.i\L21024C1.b\8310A.m
Meth Date : 02-Nov-2001 11:01 jdonnelly Quant Type: ISTD
Cal Date : 20-SEP-2001 18:48 Cal File: A5UGML.D
Als bottle: 3 QC Sample: MS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: lowcalw.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	

						CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/l)	TARGET RANGE	RATIO	
RT	EXP RT	REL RT	SIGNAL	RESPONSE						
* 1 Carbazole (ISTD)					CAS #: 86-74-8					
10.586	10.610	(1.000)	VWD1A	247911				80.00- 120.00	100.00	(M)
10.678	10.610	(1.009)	ADC1A	1946177	10.0000			652.03- 978.05	785.03	
2 Naphthalene					CAS #: 91-20-3					
11.760	11.770	(1.111)	VWD1A	24184	4.87877		4.9	80.00- 120.00	100.00	(R)
11.847	11.770	(1.119)	ADC1A	23509	4.36232		4.4	82.40- 123.60	97.21	
3 Acenaphthylene					CAS #: 208-96-8					
13.010	13.013	(1.229)	VWD1A	20133	5.45205		5.4			(R)
4 1-Methyl naphthalene					CAS #: 90-12-0					
13.633	13.633	(1.288)	VWD1A	17404	5.86427		5.9	80.00- 120.00	100.00	(R)
13.727	13.633	(1.297)	ADC1A	48752	4.12134		4.1	296.60- 444.90	280.12	

RT	EXP RT	REL RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/l)	TARGET RANGE	RATIO
5 2-Methyl naphthalene						CAS #: 91-57-6		
13.970	13.973	(1.320)	VWD1A	21465	5.10403	5.1	80.00- 120.00	100.00(R)
14.067	13.973	(1.329)	ADC1A	41284	4.04291	4.0	191.55- 287.32	192.33
6 Acenaphthene						CAS #: 83-32-9		
14.306	14.310	(1.351)	VWD1A	10844	5.31013	5.3	80.00- 120.00	100.00(R)
14.397	14.310	(1.360)	ADC1A	106042	4.27353	4.3	964.12-1446.17	977.89
7 Fluorene						CAS #: 86-73-7		
14.676	14.680	(1.386)	VWD1A	128277	5.64104	5.6	80.00- 120.00	100.00(R)
14.763	14.680	(1.395)	ADC1A	14714	5.20016	5.2	9.06- 13.59	11.47
8 Phenanthrene						CAS #: 85-01-8		
15.493	15.500	(1.463)	VWD1A	379517	5.97581	6.0	80.00- 120.00	100.00
15.585	15.500	(1.472)	ADC1A	340546	5.59405	5.6	78.58- 117.87	89.73
9 Anthracene						CAS #: 120-12-7		
16.216	16.223	(1.532)	VWD1A	881111			80.00- 120.00	100.00(RM)
16.307	16.223	(1.540)	ADC1A	45688	5.23312	5.2	5.00- 7.50	5.19
10 Fluoranthene						CAS #: 206-44-0		
17.063	17.066	(1.612)	VWD1A	95478	6.29043	6.3	80.00- 120.00	100.00
17.162	17.066	(1.621)	ADC1A	7414	6.15055	6.2	6.36- 9.54	7.77
11 Pyrene						CAS #: 129-00-0		
17.603	17.606	(1.663)	VWD1A	76527	6.52222	6.5	80.00- 120.00	100.00(M)
17.700	17.606	(1.672)	ADC1A	887034	7.35477	7.4	930.64-1395.96	1159.11
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.593	18.593	(1.756)	VWD1A	175711	13.3881	13.4	80.00- 120.00	100.00
18.688	18.593	(1.765)	ADC1A	4906811	12.4122	12.4	2246.35-3369.53	2792.55
13 Benzo(a)Anthracene						CAS #: 56-55-3		
19.426	19.426	(1.835)	VWD1A	226671	6.30509	6.3	80.00- 120.00	100.00
19.523	19.426	(1.844)	ADC1A	2490478	6.00108	6.0	881.58-1322.37	1098.72
14 Chrysene						CAS #: 218-01-9		
19.823	19.820	(1.872)	VWD1A	314404	6.23574	6.2	80.00- 120.00	100.00
19.918	19.820	(1.882)	ADC1A	733566	6.15184	6.2	190.14- 285.21	233.32
15 Benzo(b)Fluoranthene						CAS #: 205-99-2		
21.266	21.253	(2.009)	VWD1A	254916	6.55124	6.6	80.00- 120.00	100.00
21.362	21.253	(2.018)	ADC1A	55978	5.10421	5.1	20.85- 31.28	21.96
16 Benzo(k)Fluoranthene						CAS #: 207-08-9		
21.900	21.883	(2.069)	VWD1A	194448	6.48477	6.5	80.00- 120.00	100.00

RT	EXP RT	REL RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	CONCENTRATIONS FINAL (ug/l)	TARGET RANGE	RATIO	
16 Benzo(k)Fluoranthene (continued)									
21.998	21.883	(2.078)	ADC1A	110780	5.20553	5.2	52.76- 79.15	56.97	
17 Benzo(a)pyrene						CAS #: 50-32-8			
22.493	22.476	(2.125)	VWD1A	222216	6.43099	6.4	80.00- 120.00	100.00	
22.593	22.476	(2.134)	ADC1A	366120	5.98861	6.0	138.13- 207.19	164.76	
18 Dibenz(ah)Anthracene						CAS #: 53-70-3			
23.513	23.493	(2.221)	VWD1A	54646	6.42932	6.4	80.00- 120.00	100.00	
23.615	23.493	(2.231)	ADC1A	587893	5.81419	5.8	949.04-1423.56	1075.82	
19 Benzo(ghi)Perylene						CAS #: 191-24-2			
24.250	24.226	(2.291)	VWD1A	82967			80.00- 120.00	100.00	(R)
24.350	24.226	(2.300)	ADC1A	146559	4.97071	5.0	155.32- 232.98	176.65	
20 Indeno(123cd)Pyrene						CAS #: 193-39-5			
24.726	24.703	(2.336)	VWD1A	216261	6.04504	6.0			(M)

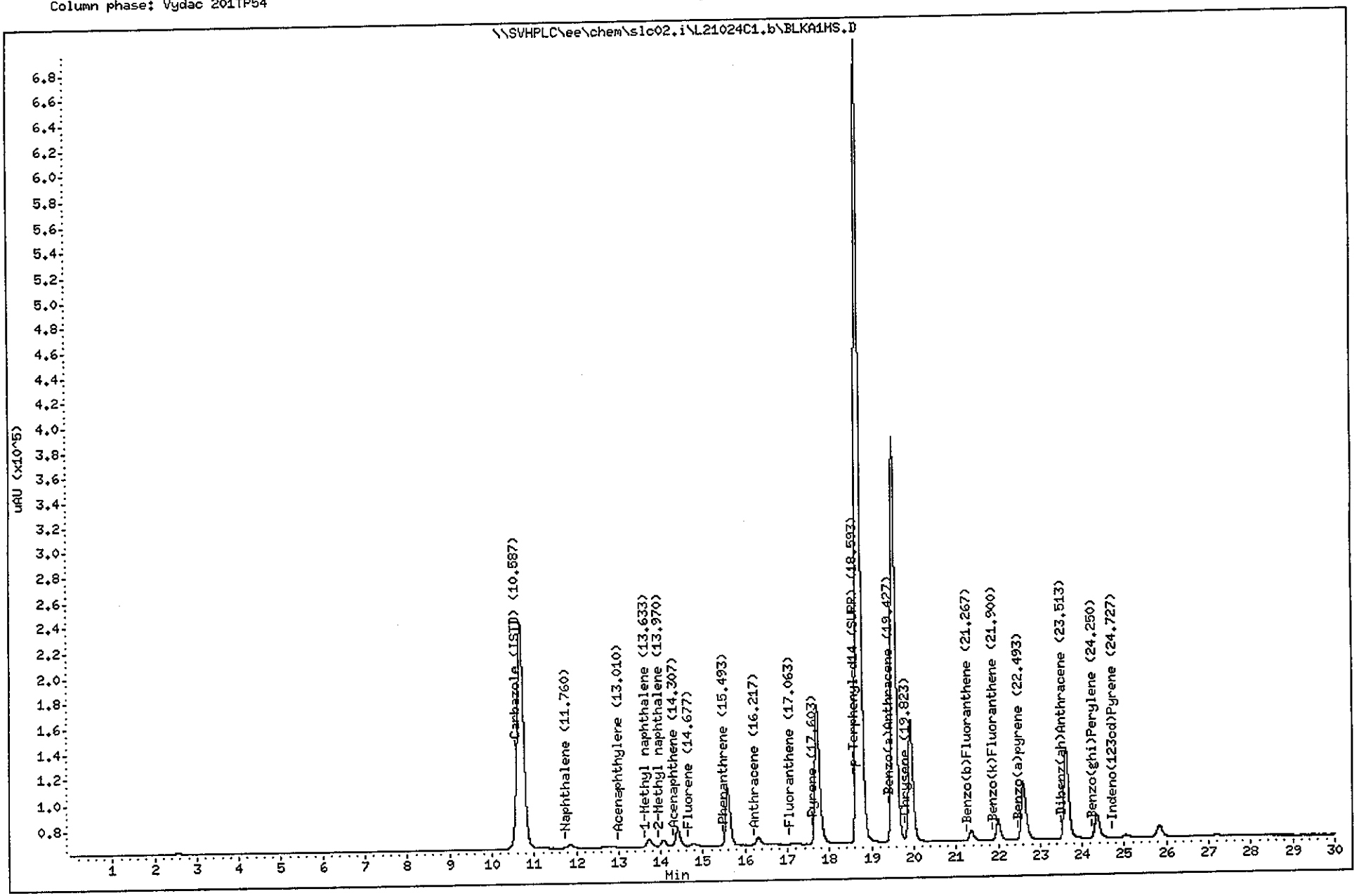
QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\SVHPLC\ee\chem\slc02.i\L21024C1.b\BLKA1MS.D
Date : 24-OCT-2001 20:06
Client ID: BLKA1MS
Sample Info: 51238
Purge Volume: 1000.0
Column phase: Vydac 201TP54

Instrument: slc02.i

Operator: rood
Column diameter: 4.60



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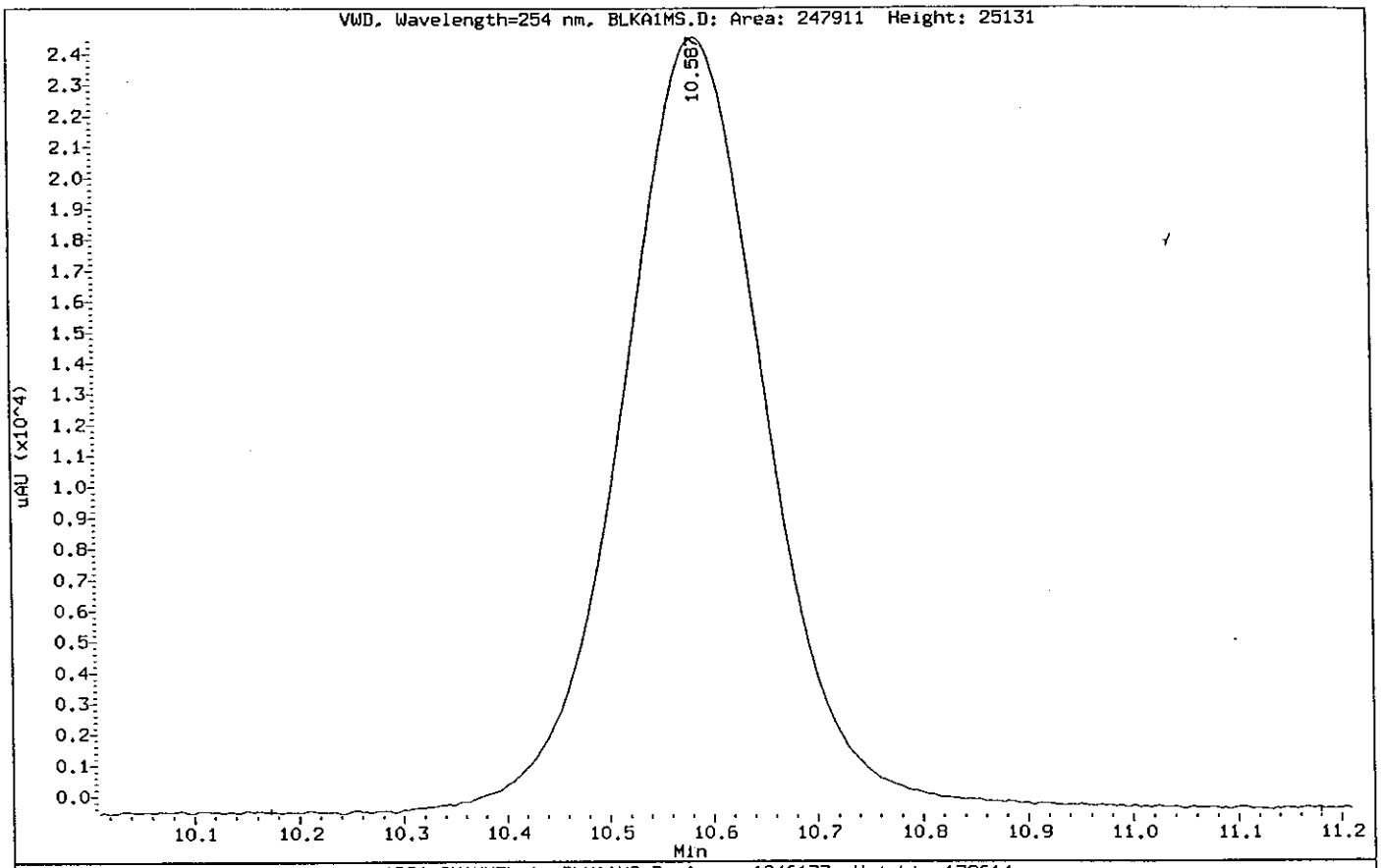
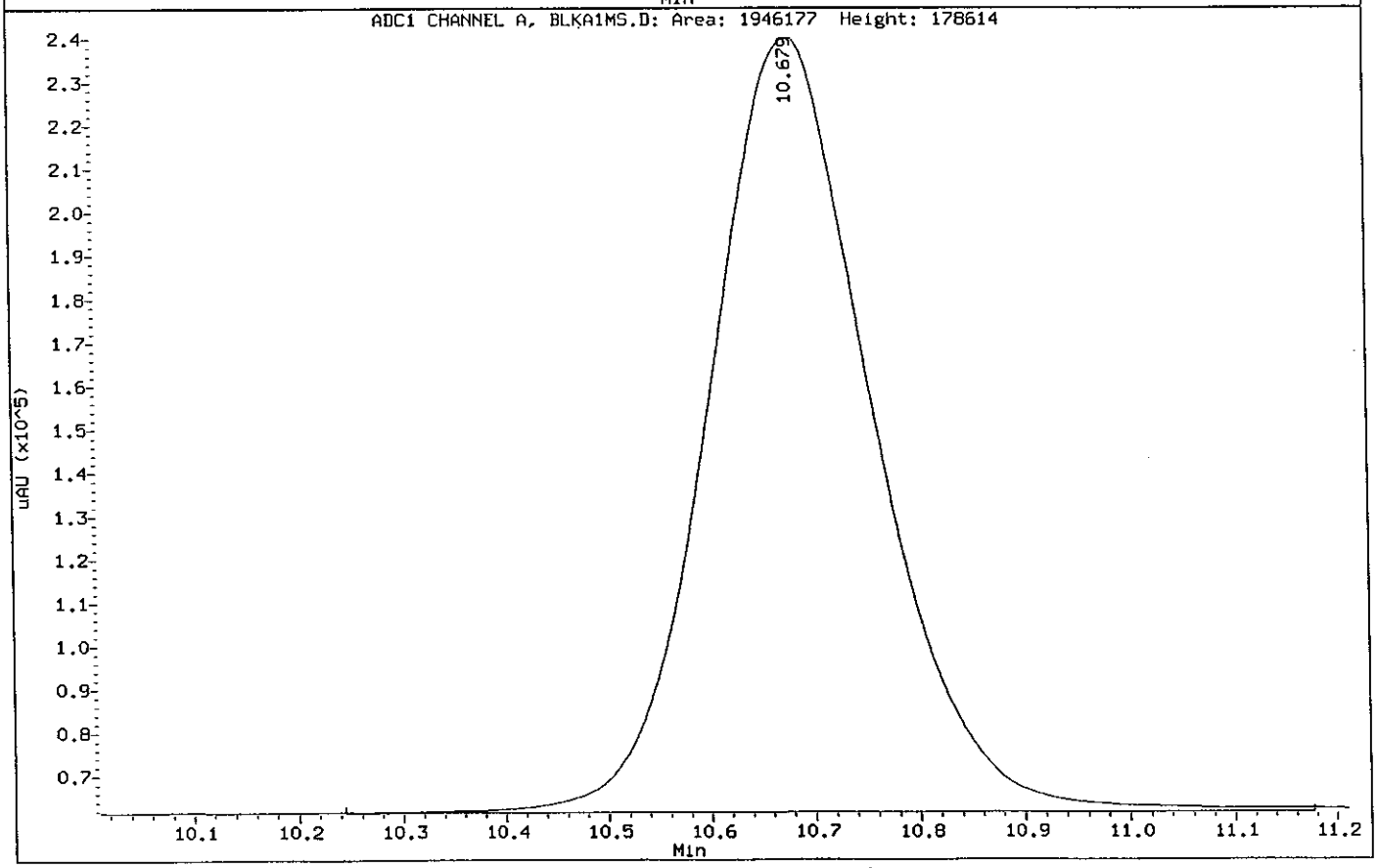
Injection Date: 24-OCT-2001 20:06
Instrument: slc02.i
Client Sample ID: BLKA1MS

Compound: Carbazole (ISTD)
CAS Number: 86-74-8





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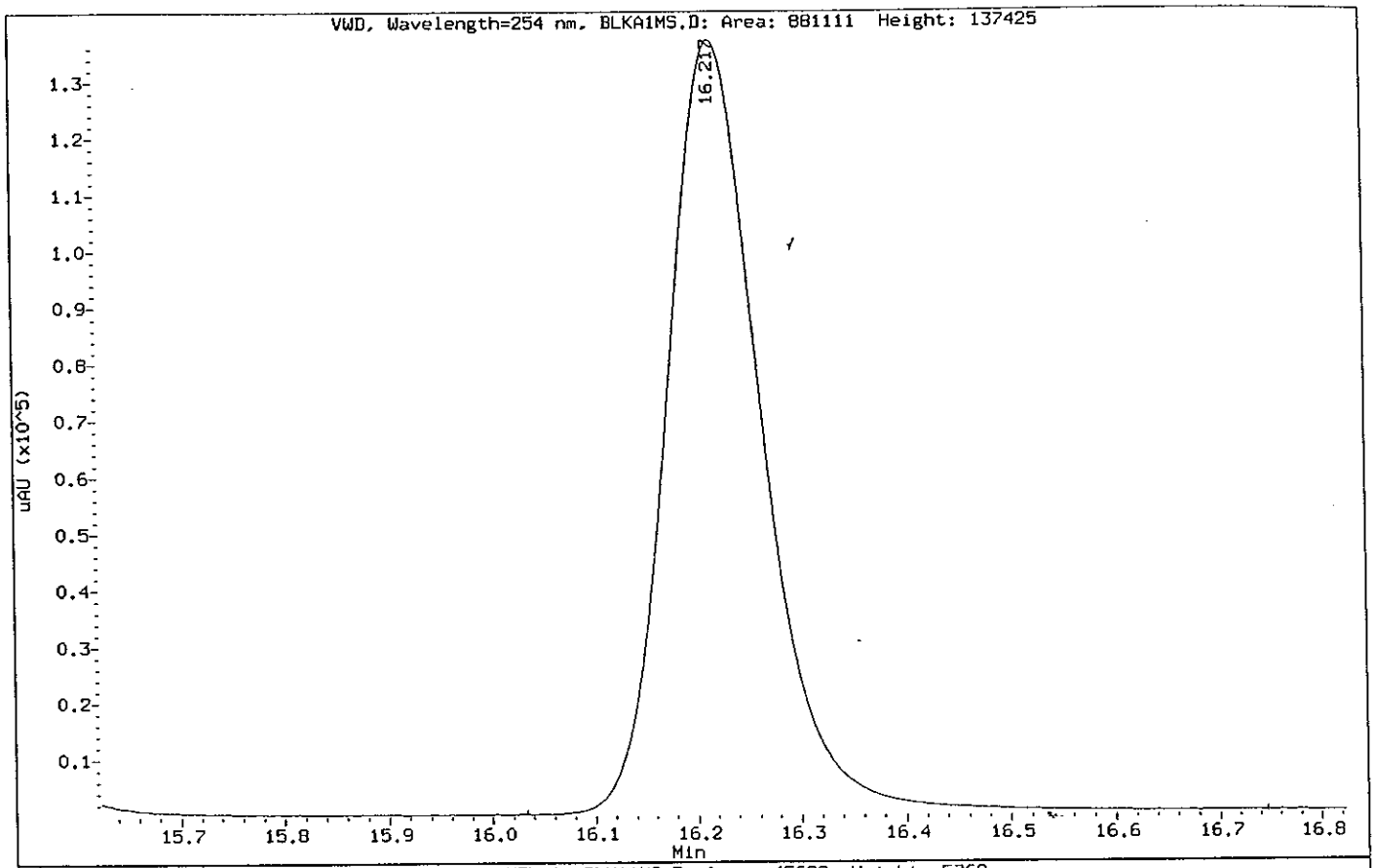
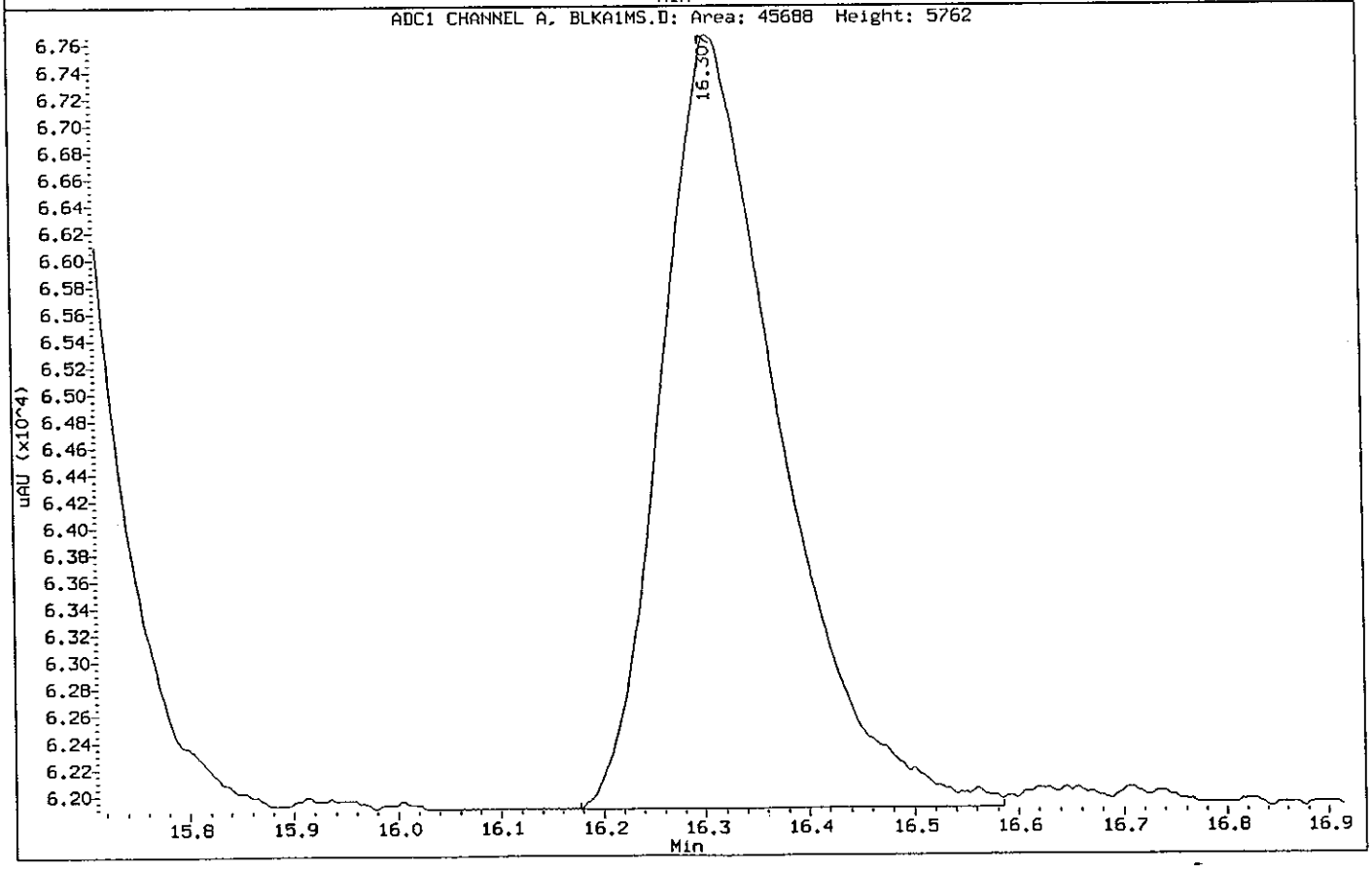
Instrument: slc02.i
Client Sample ID: BLKA1MS

Compound: Anthracene
CAS Number: 120-12-7

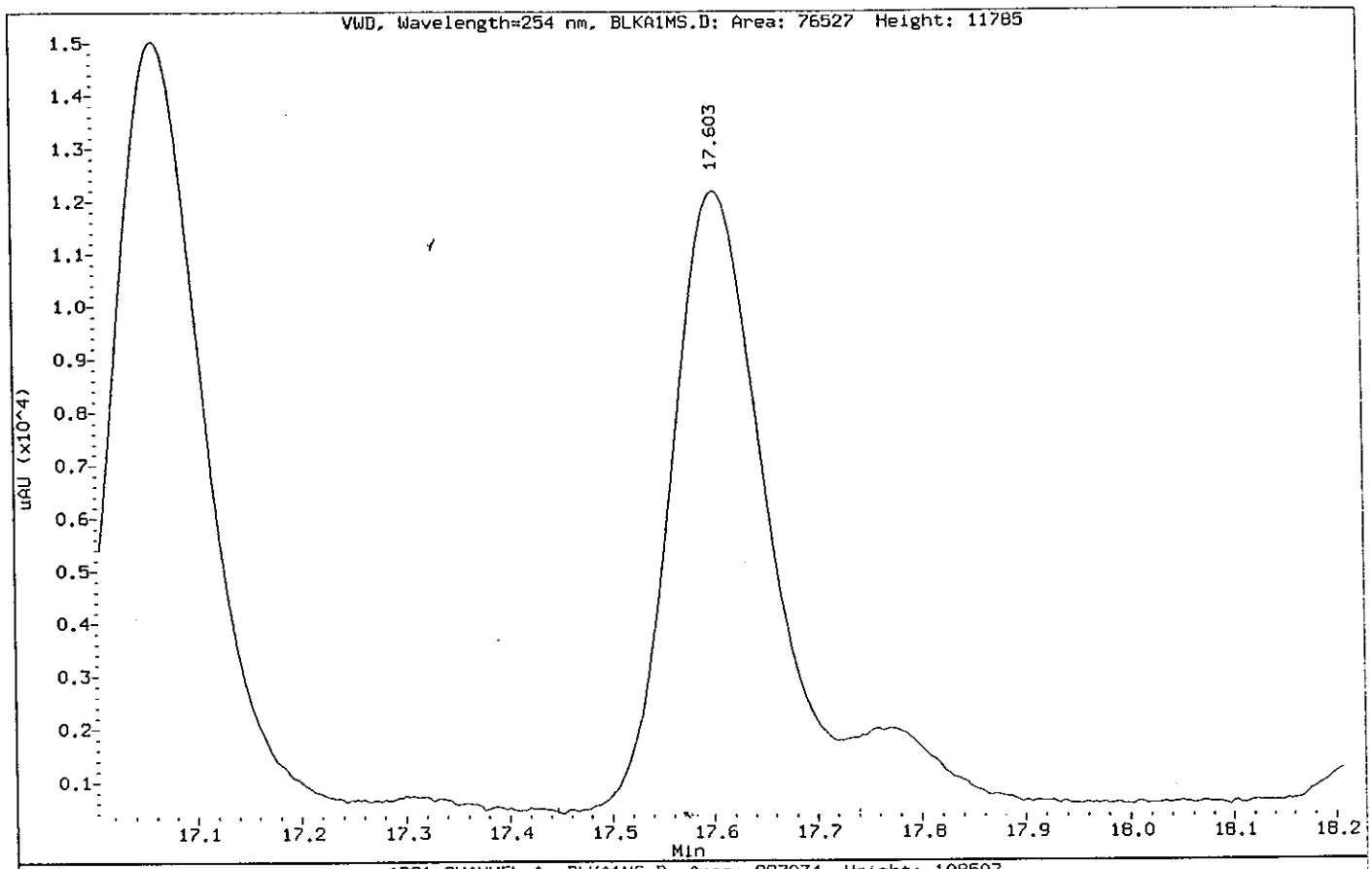


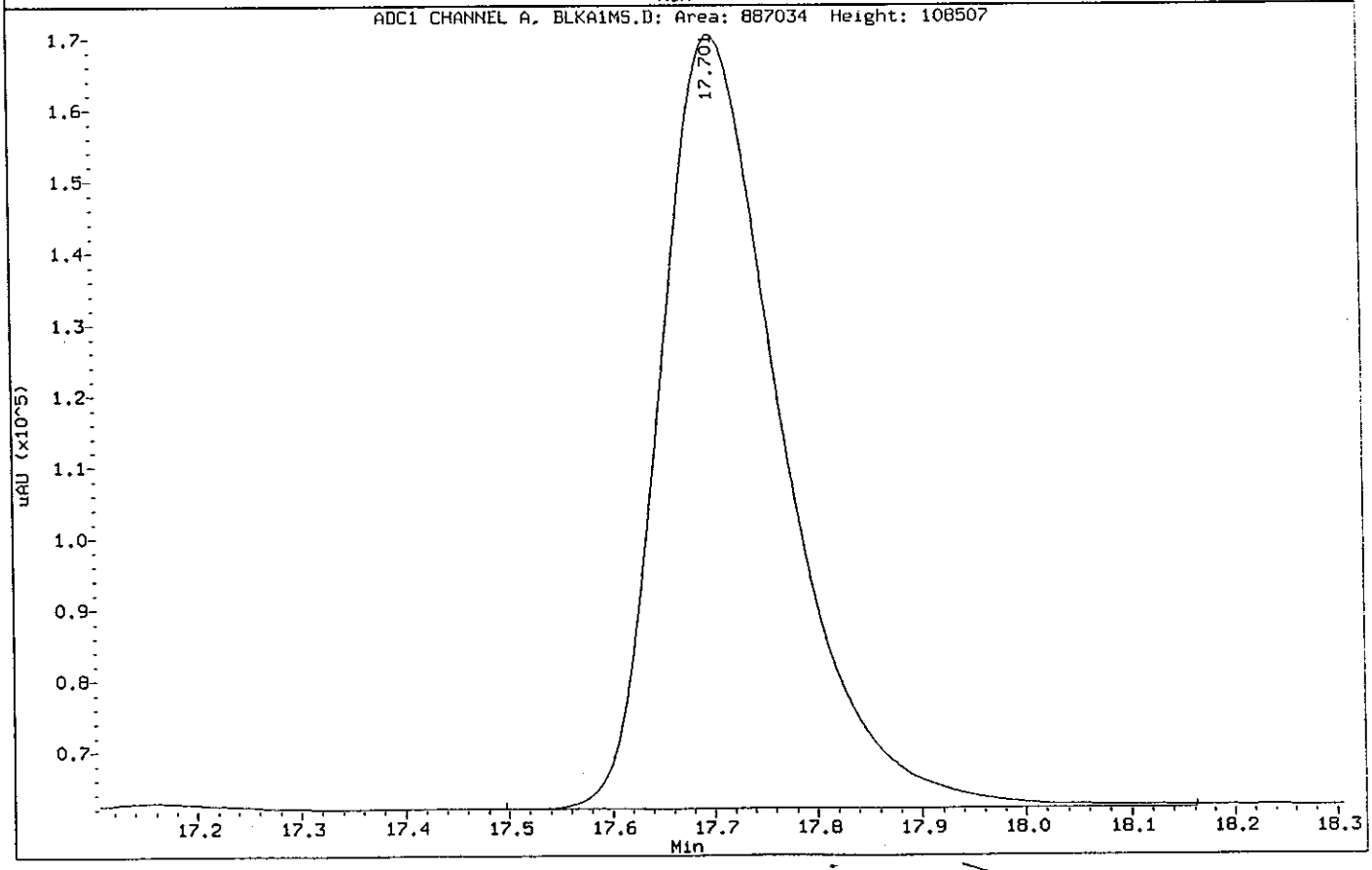


JM

Data File: \\SVHPLC\ee\chem\slc02.i\L21024C1.b\BLKA1MS.D
Injection Date: 24-OCT-2001 20:06
Instrument: slc02.i
Client Sample ID: BLKA1MS

Compound: Pyrene
CAS Number: 129-00-0





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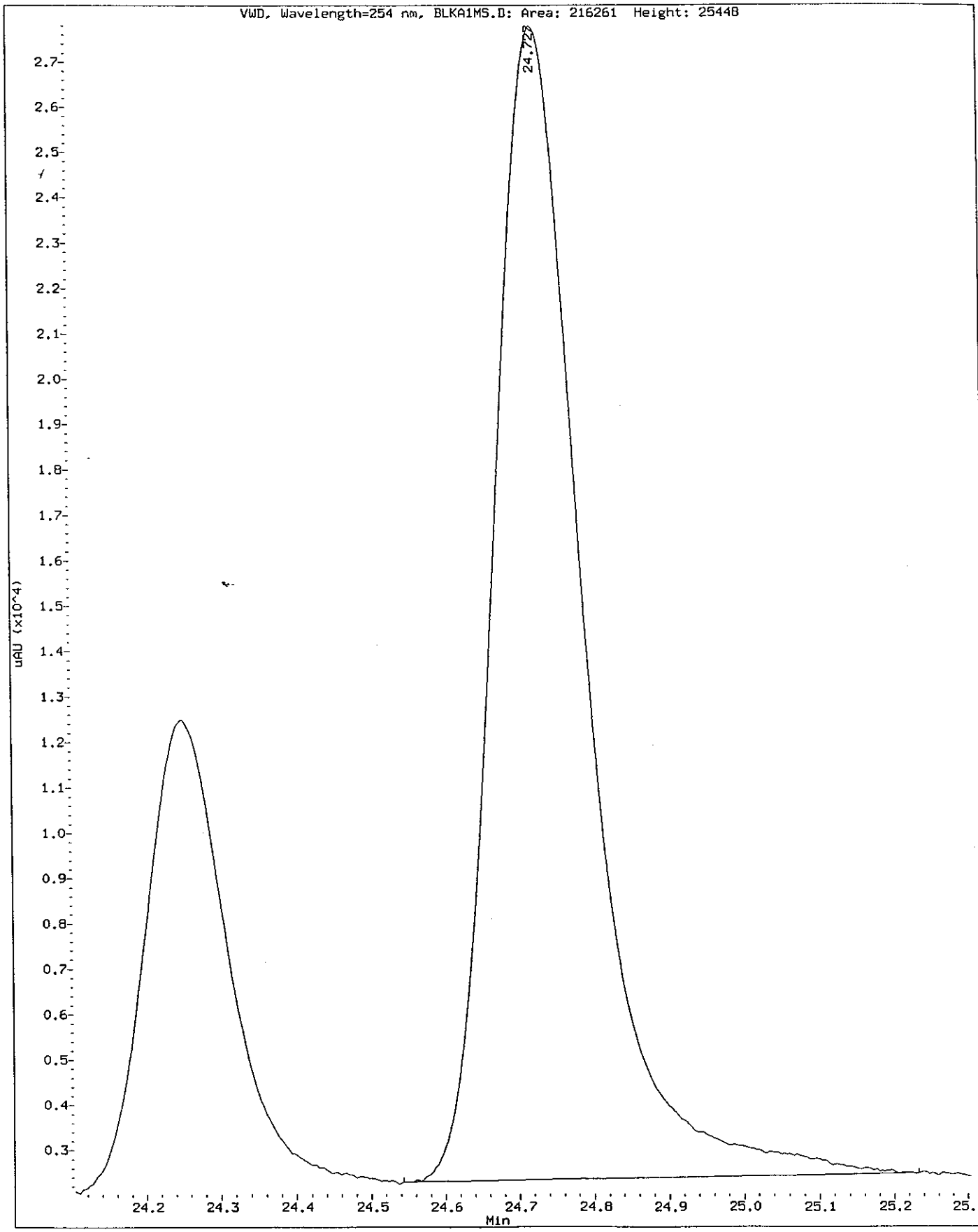
Injection Date: 24-OCT-2001 20:06
Instrument: slc02.i
Client Sample ID: BLKA1MS

Compound: Indeno(123cd)Pyrene
CAS Number: 193-39-5



PEL Laboratories

Data file : \\SVHPLC\ee\chem\slc02.i\L21024C1.b\BLKA1SD.D
Lab Smp Id: 51239 Client Smp ID: BLKA1SD
Inj Date : 24-OCT-2001 20:41
Operator : rood Inst ID: slc02.i
Smp Info : 51239
Misc Info :
Comment :
Method : \\SVHPLC\ee\chem\slc02.i\L21024C1.b\8310A.m
Meth Date : 02-Nov-2001 11:01 jdonnelly Quant Type: ISTD
Cal Date : 20-SEP-2001 18:48 Cal File: A5UGML.D
Als bottle: 4 QC Sample: MSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: lowcalw.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	

						CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	REL RT	SIGNAL	RESPONSE		(ug/ml)	(ug/l)	TARGET RANGE	RATIO
* 1 Carbazole (ISTD)							CAS #: 86-74-8		
10.583	10.610	(1.000)	VWD1A	251544				80.00- 120.00	100.00
10.678	10.610	(1.000)	ADC1A	1988749	10.0000			652.03- 978.05	790.62
2 Naphthalene							CAS #: 91-20-3		
11.753	11.770	(1.111)	VWD1A	22479	4.43774		4.4	80.00- 120.00	100.00(R)
11.846	11.770	(1.119)	ADC1A	21308	3.86927		3.9	82.40- 123.60	94.79
3 Acenaphthylene							CAS #: 208-96-8		
13.000	13.013	(1.228)	VWD1A	19520	5.17289		5.2		(R)
4 1-Methyl naphthalene							CAS #: 90-12-0		
13.633	13.633	(1.288)	VWD1A	20213	6.66497		6.7	80.00- 120.00	100.00
13.721	13.633	(1.297)	ADC1A	46815	3.87288		3.9	296.60- 444.90	231.61

RT	EXP RT	REL RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/l)	TARGET RANGE	RATIO
5 2-Methyl naphthalene						CAS #: 91-57-6		
13.966	13.973	(1.320)	VWD1A	21664	5.04108	5.0	80.00- 120.00	100.00(R)
14.056	13.973	(1.328)	ADC1A	40962	3.92551	3.9	191.55- 287.32	189.08
6 Acenaphthene						CAS #: 83-32-9		
14.303	14.310	(1.351)	VWD1A	11687	5.60043	5.6	80.00- 120.00	100.00(R)
14.395	14.310	(1.360)	ADC1A	106294	4.19199	4.2	964.12-1446.17	909.51
7 Fluorene						CAS #: 86-73-7		
14.673	14.680	(1.386)	VWD1A	130569	5.61892	5.6	80.00- 120.00	100.00(R)
14.775	14.680	(1.396)	ADC1A	14069	4.86577	4.9	9.06- 13.59	10.78
8 Phenanthrene						CAS #: 85-01-8		
15.493	15.500	(1.464)	VWD1A	385861	5.94564	5.9	80.00- 120.00	100.00(RM)
15.590	15.500	(1.473)	ADC1A	351865	5.65625	5.6	78.58- 117.87	91.19
9 Anthracene						CAS #: 120-12-7		
16.220	16.223	(1.533)	VWD1A	886252			80.00- 120.00	100.00(RM)
16.316	16.223	(1.542)	ADC1A	49768	5.57842	5.6	5.00- 7.50	5.62
10 Fluoranthene						CAS #: 206-44-0		
17.063	17.066	(1.612)	VWD1A	108469	6.99335	7.0	80.00- 120.00	100.00(M)
17.160	17.066	(1.621)	ADC1A	7829	6.35579	6.4	6.36- 9.54	7.22
11 Pyrene						CAS #: 129-00-0		
17.606	17.606	(1.664)	VWD1A	79748	6.65124	6.6	80.00- 120.00	100.00(M)
17.710	17.606	(1.673)	ADC1A	945478	7.67154	7.7	930.64-1395.96	1185.58
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.596	18.593	(1.757)	VWD1A	188767	14.0750	14.1	80.00- 120.00	100.00
18.693	18.593	(1.766)	ADC1A	5315230	13.1575	13.2	2246.35-3369.53	2815.76
13 Benzo(a)Anthracene						CAS #: 56-55-3		
19.430	19.426	(1.836)	VWD1A	244190	6.64700	6.6	80.00- 120.00	100.00
19.531	19.426	(1.846)	ADC1A	2668042	6.29132	6.3	881.58-1322.37	1092.61
14 Chrysene						CAS #: 218-01-9		
19.826	19.820	(1.873)	VWD1A	333053	6.46421	6.5	80.00- 120.00	100.00
19.926	19.820	(1.883)	ADC1A	773749	6.34992	6.3	190.14- 285.21	232.32
15 Benzo(b)Fluoranthene						CAS #: 205-99-2		
21.263	21.253	(2.009)	VWD1A	266076	6.69166	6.7	80.00- 120.00	100.00
21.361	21.253	(2.018)	ADC1A	58850	5.25122	5.2	20.85- 31.28	22.12
16 Benzo(k)Fluoranthene						CAS #: 207-08-9		
21.896	21.883	(2.069)	VWD1A	195131	6.36825	6.4	80.00- 120.00	100.00

RT	EXP RT	REL RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	CONCENTRATIONS FINAL (ug/l)	TARGET RANGE	RATIO	
16 Benzo(k)Fluoranthene (continued)									
22.000	21.883	(2.079)	ADC1A	112670	5.18101	5.2	52.76- 79.15	57.74	
17 Benzo(a)pyrene						CAS #: 50-32-8			
22.490	22.476	(2.125)	VWD1A	229481	6.49908	6.5	80.00- 120.00	100.00	(M)
22.595	22.476	(2.135)	ADC1A	370179	5.92539	5.9	138.13- 207.19	161.31	
18 Dibenz(ah)Anthracene						CAS #: 53-70-3			
23.510	23.493	(2.221)	VWD1A	47593	5.47964	5.5	80.00- 120.00	100.00	(R)
23.611	23.493	(2.231)	ADC1A	501007	4.84883	4.8	949.04-1423.56	1052.69	
19 Benzo(ghi)Perylene						CAS #: 191-24-2			
24.246	24.226	(2.291)	VWD1A	71614			80.00- 120.00	100.00	(R)
24.350	24.226	(2.301)	ADC1A	121033	4.01709	4.0	155.32- 232.98	169.01	
20 Indeno(123cd)Pyrene						CAS #: 193-39-5			
24.720	24.703	(2.336)	VWD1A	209303	5.72530	5.7			(RM)

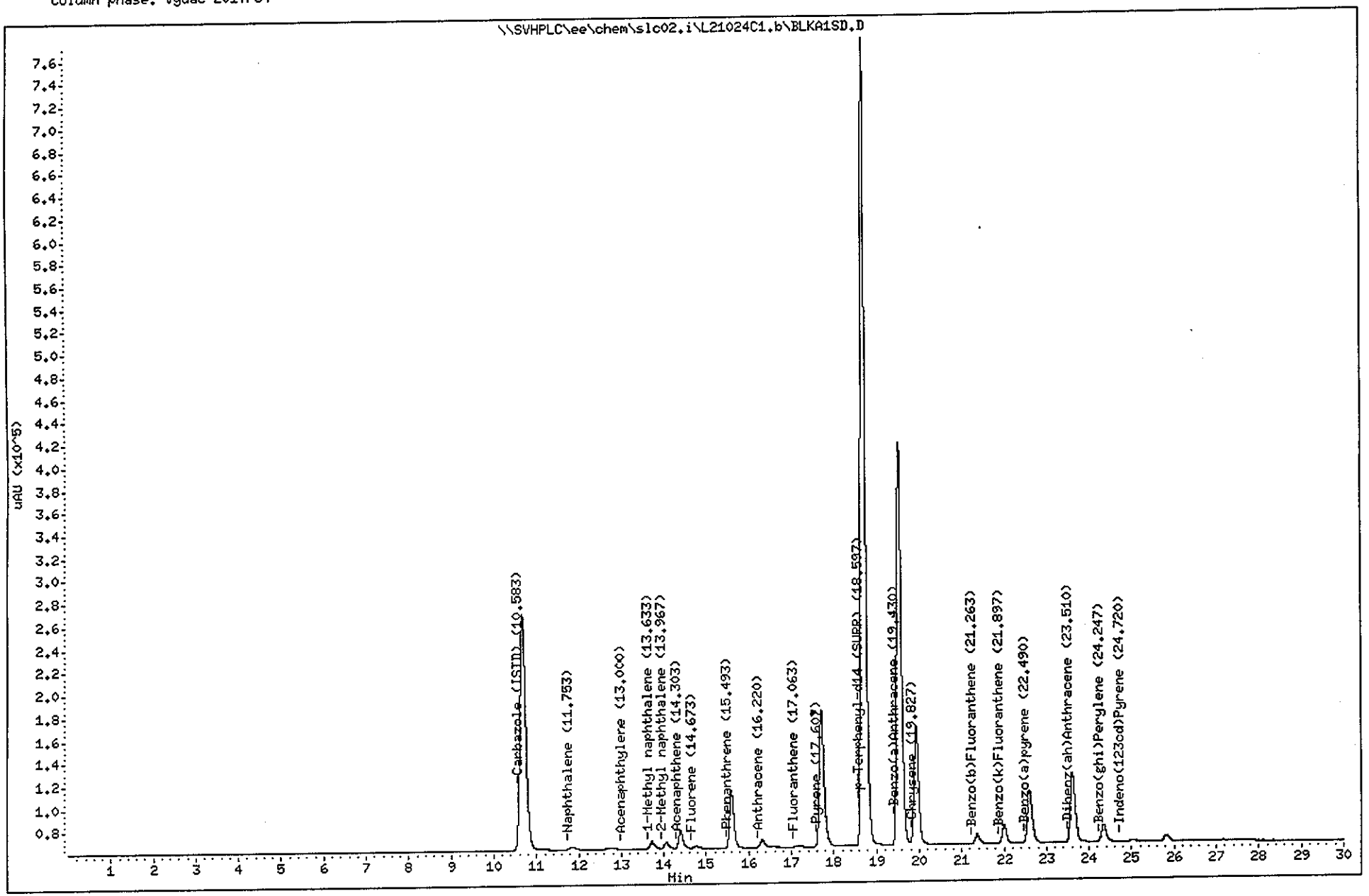
QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\SVHPLC\ee\chem\slc02.i\L21024C1.b\BLKA1SD.D
Date : 24-OCT-2001 20:41
Client ID: BLKA1SD
Sample Info: 51239
Purge Volume: 1000.0
Column phase: Vydac 201TP54

Instrument: slc02.i

Operator: rood
Column diameter: 4.60



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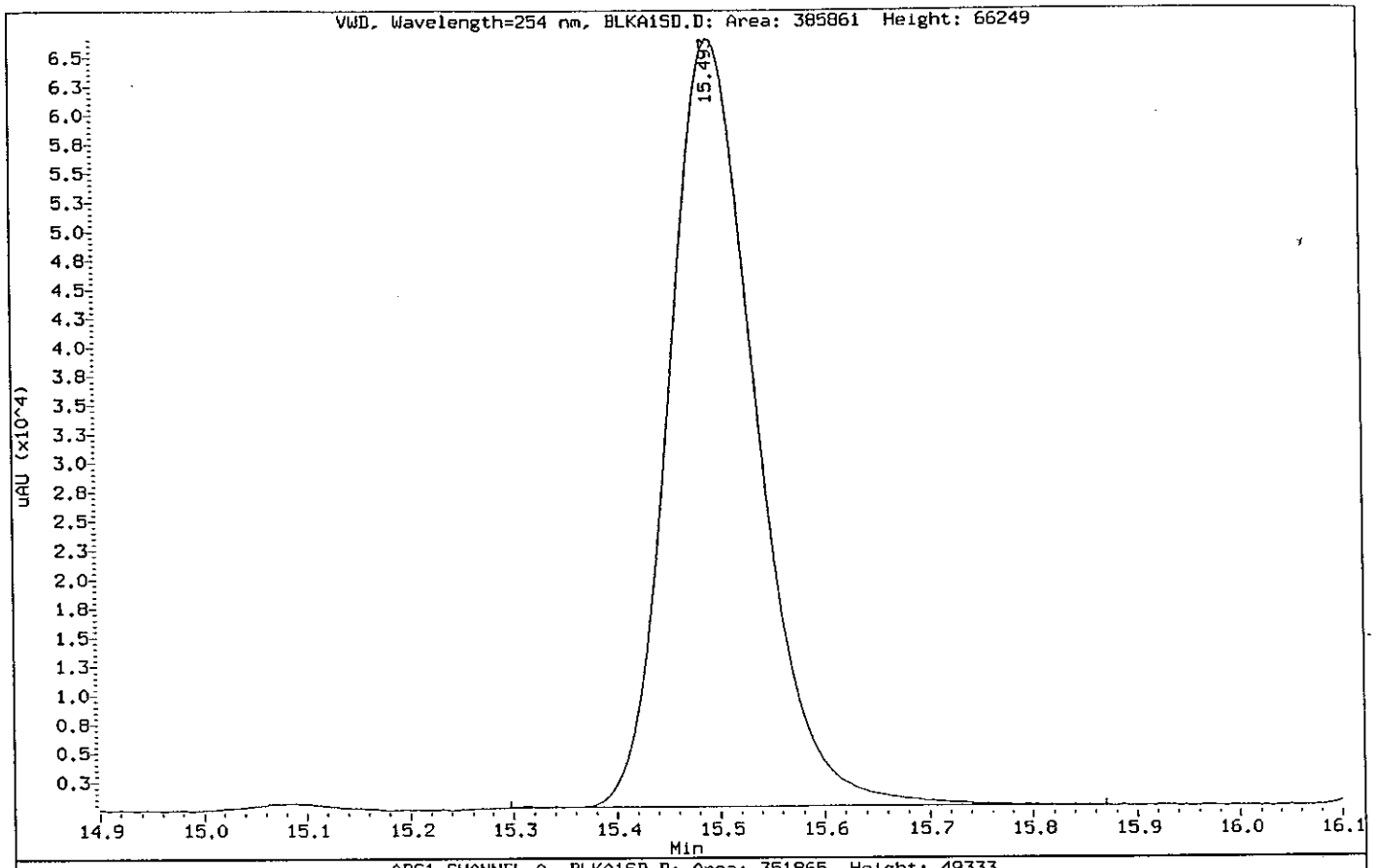
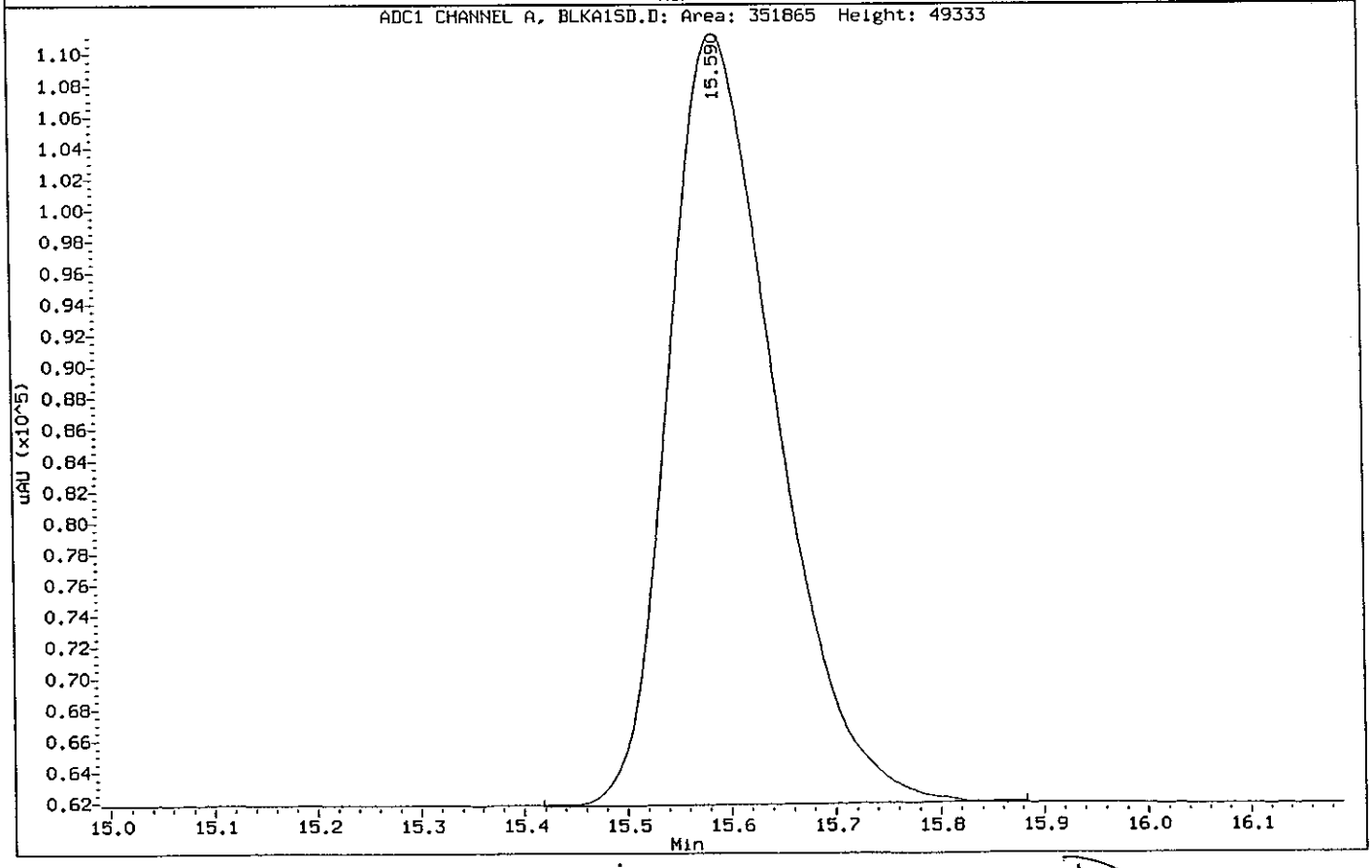
Injection Date: 24-OCT-2001 20:41
Instrument: slc02.i
Client Sample ID: BLKA1SD

Compound: Phenanthrene
CAS Number: 85-01-8

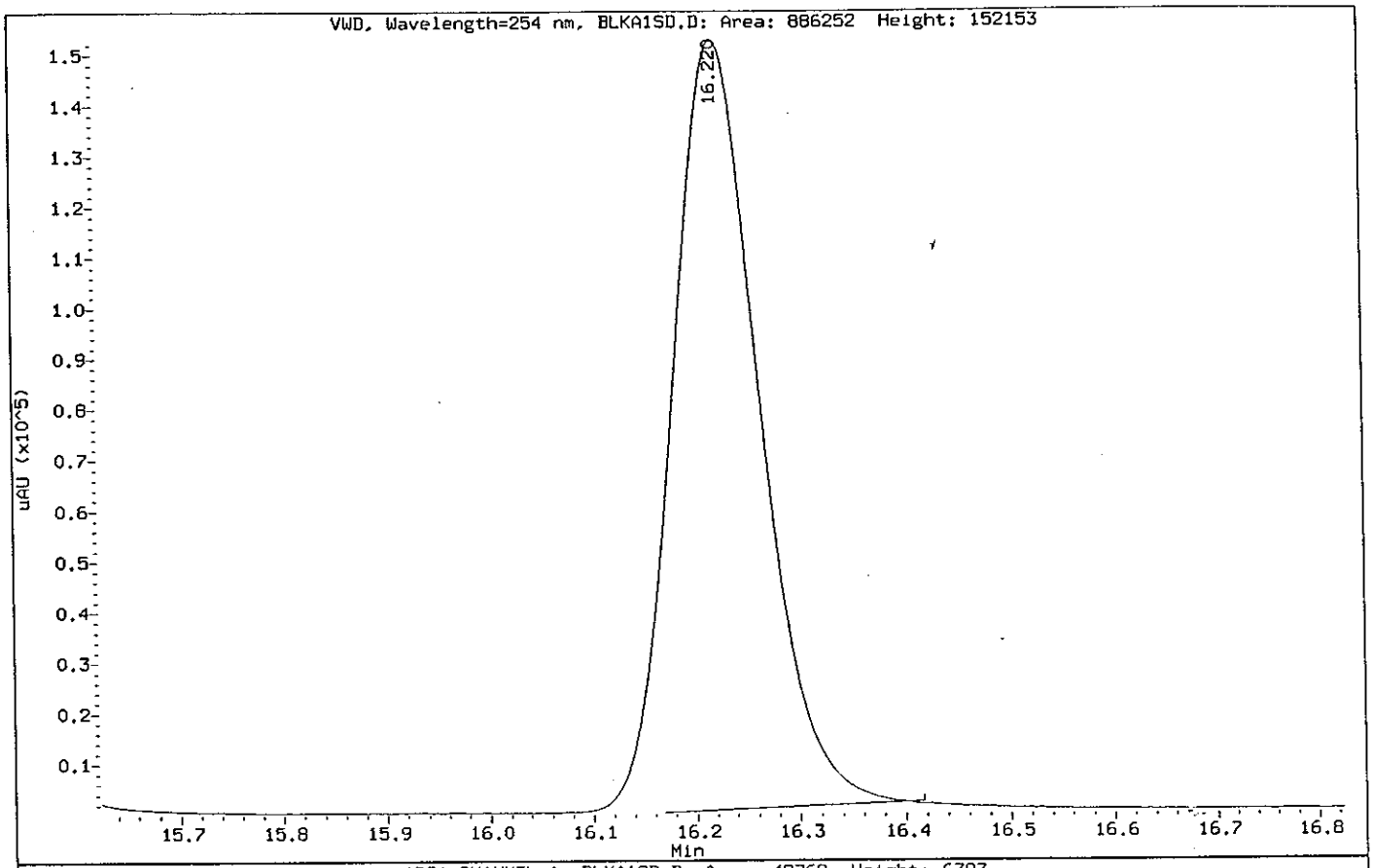


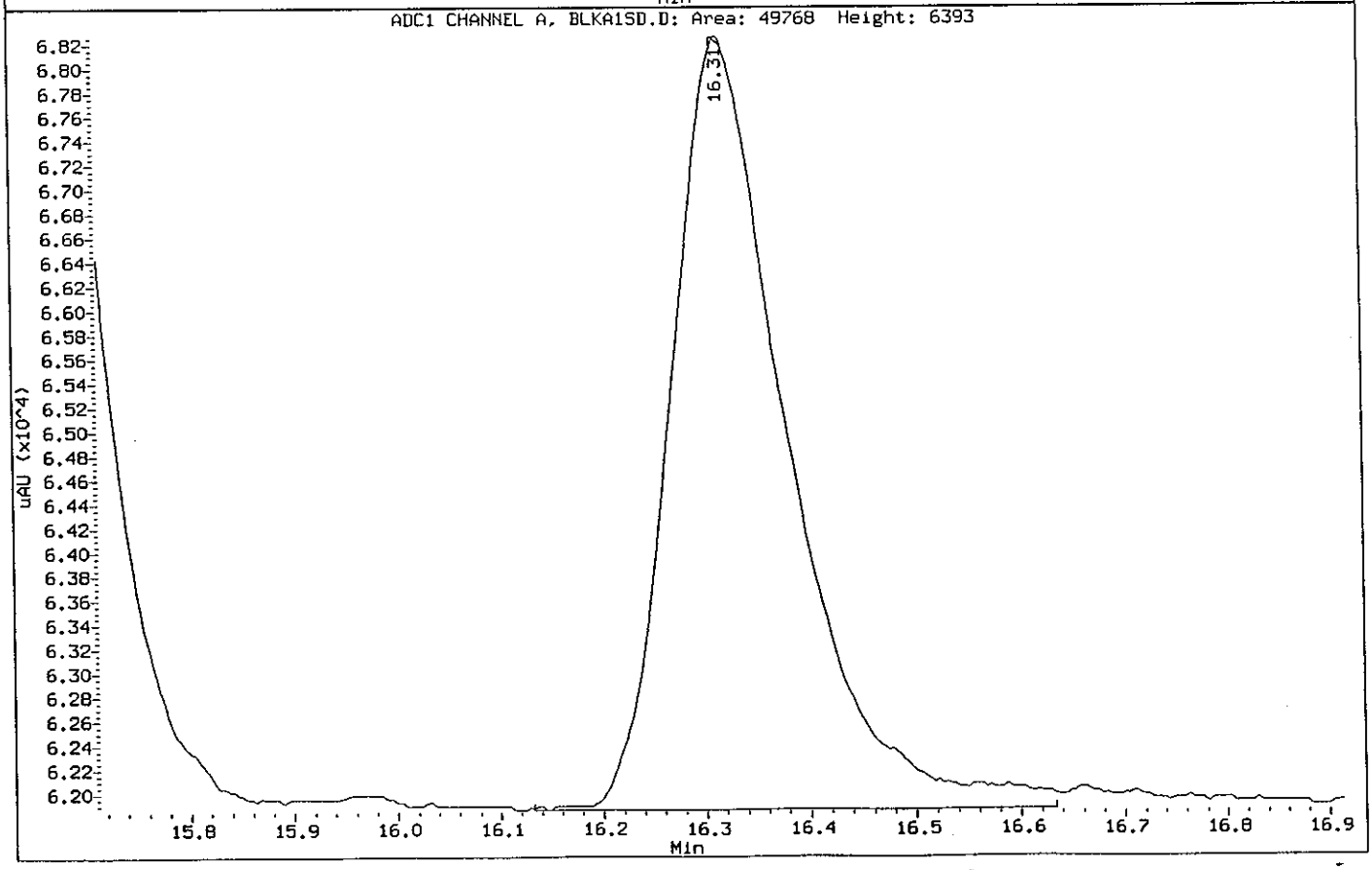


JMD

Data File: \\SVHPLC\ee\chem\slc02.i\L21024C1.b\BLKA1SD.D
Injection Date: 24-OCT-2001 20:41
Instrument: slc02.i
Client Sample ID: BLKA1SD

Compound: Anthracene
CAS Number: 120-12-7

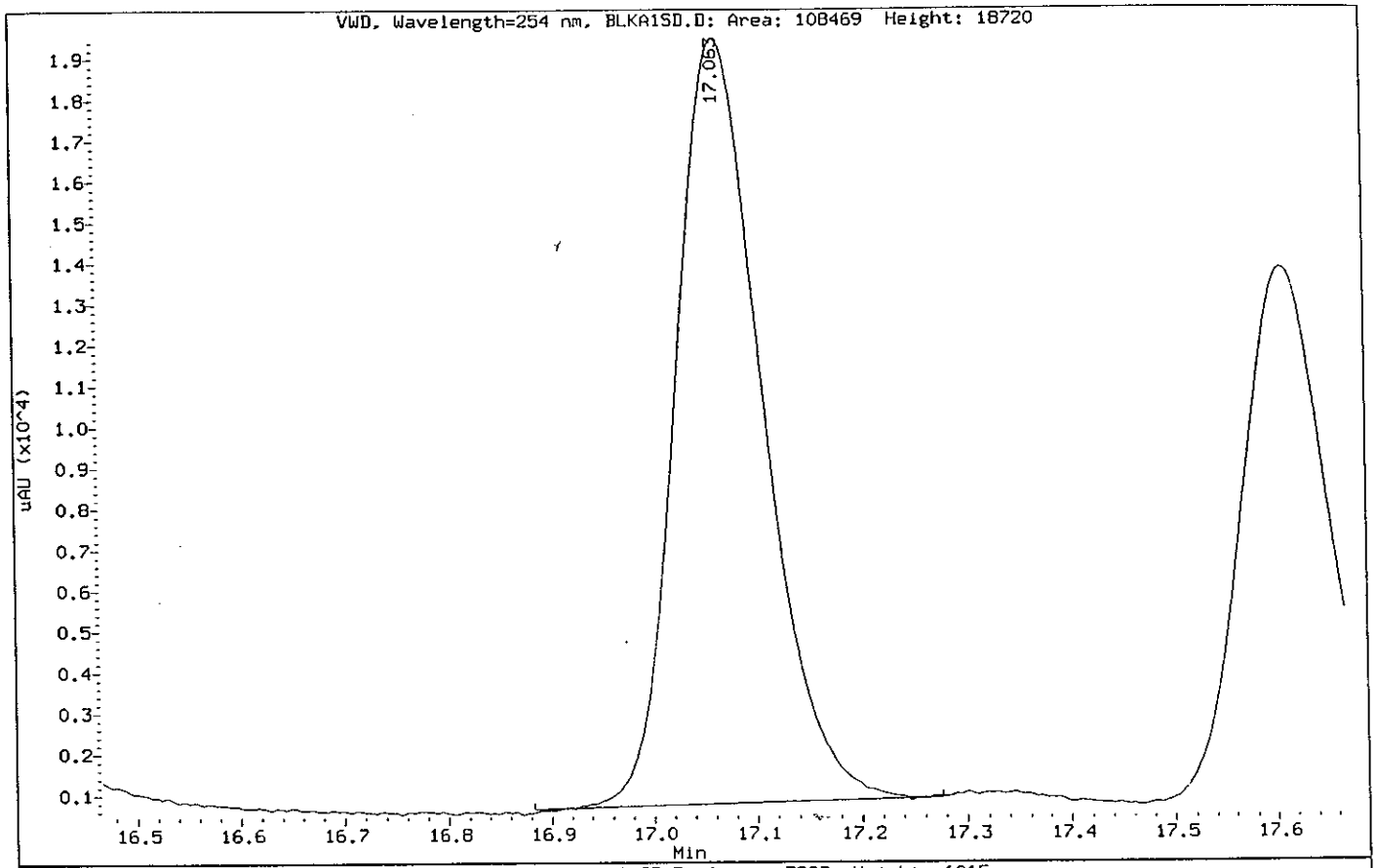


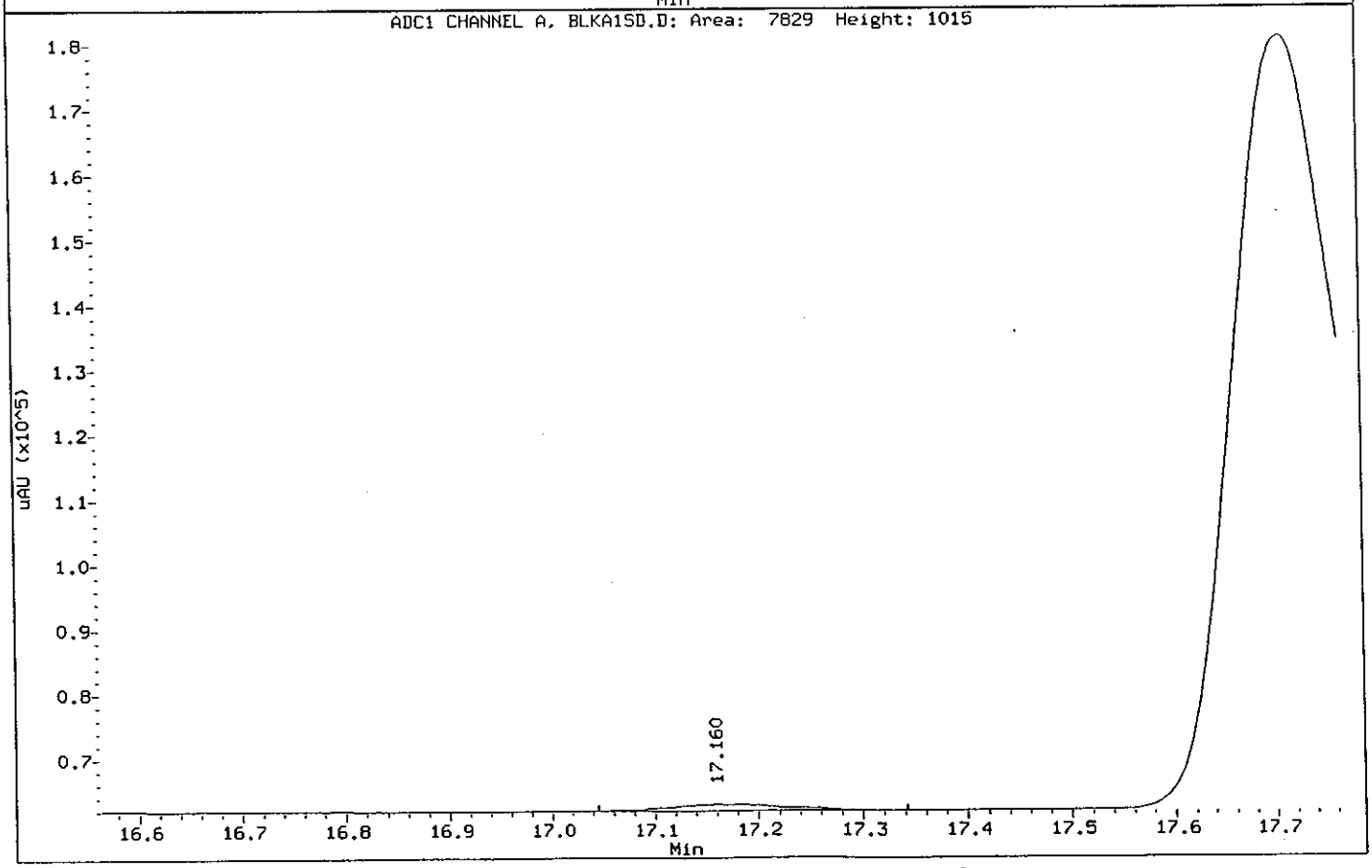


JM1

Data File: \\SVHPLC\ee\chem\slc02.i\L21024C1.b\BLKA1SD.D
Injection Date: 24-OCT-2001 20:41
Instrument: slc02.i
Client Sample ID: BLKA1SD

Compound: Fluoranthene
CAS Number: 206-44-0





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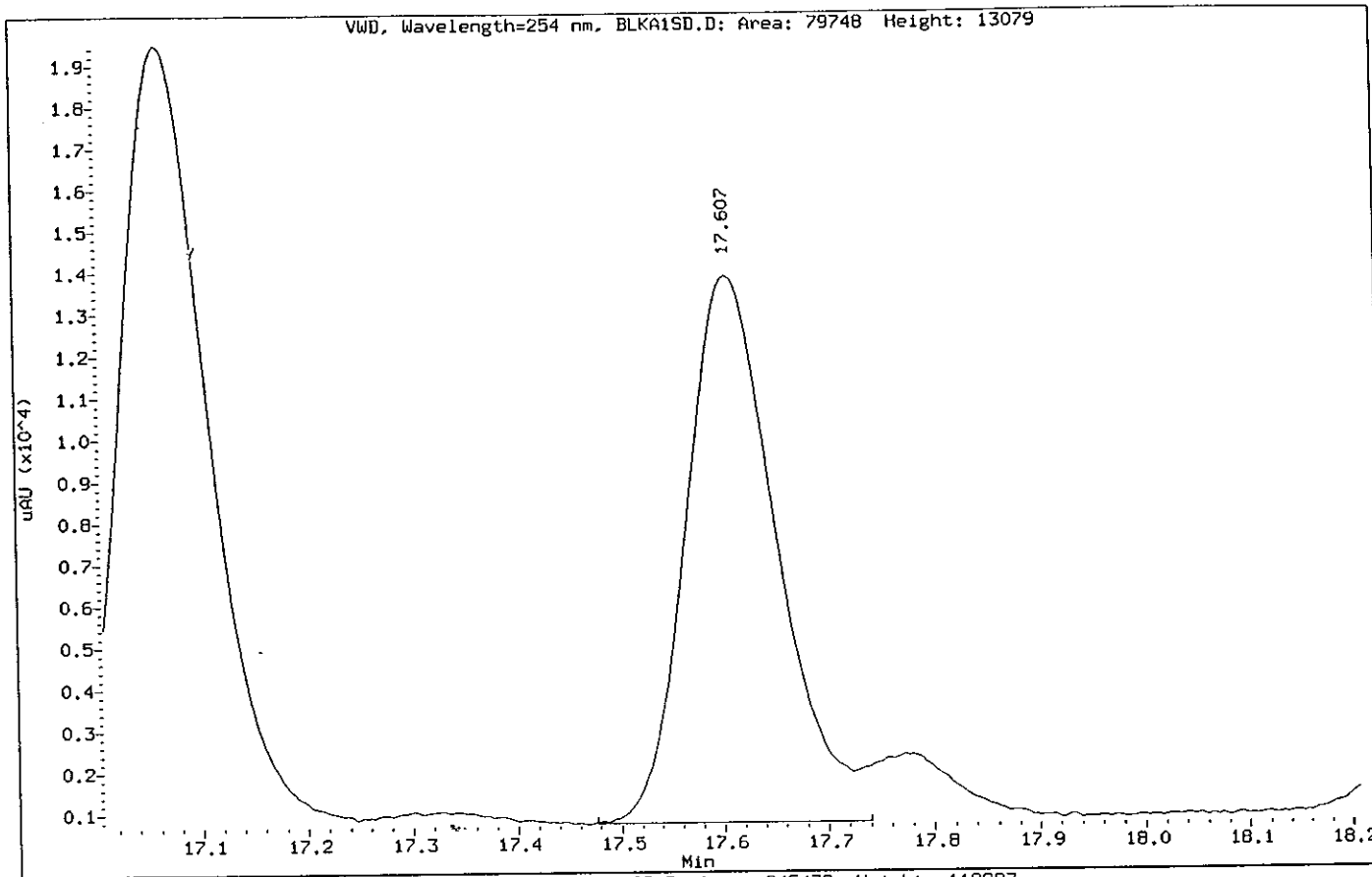
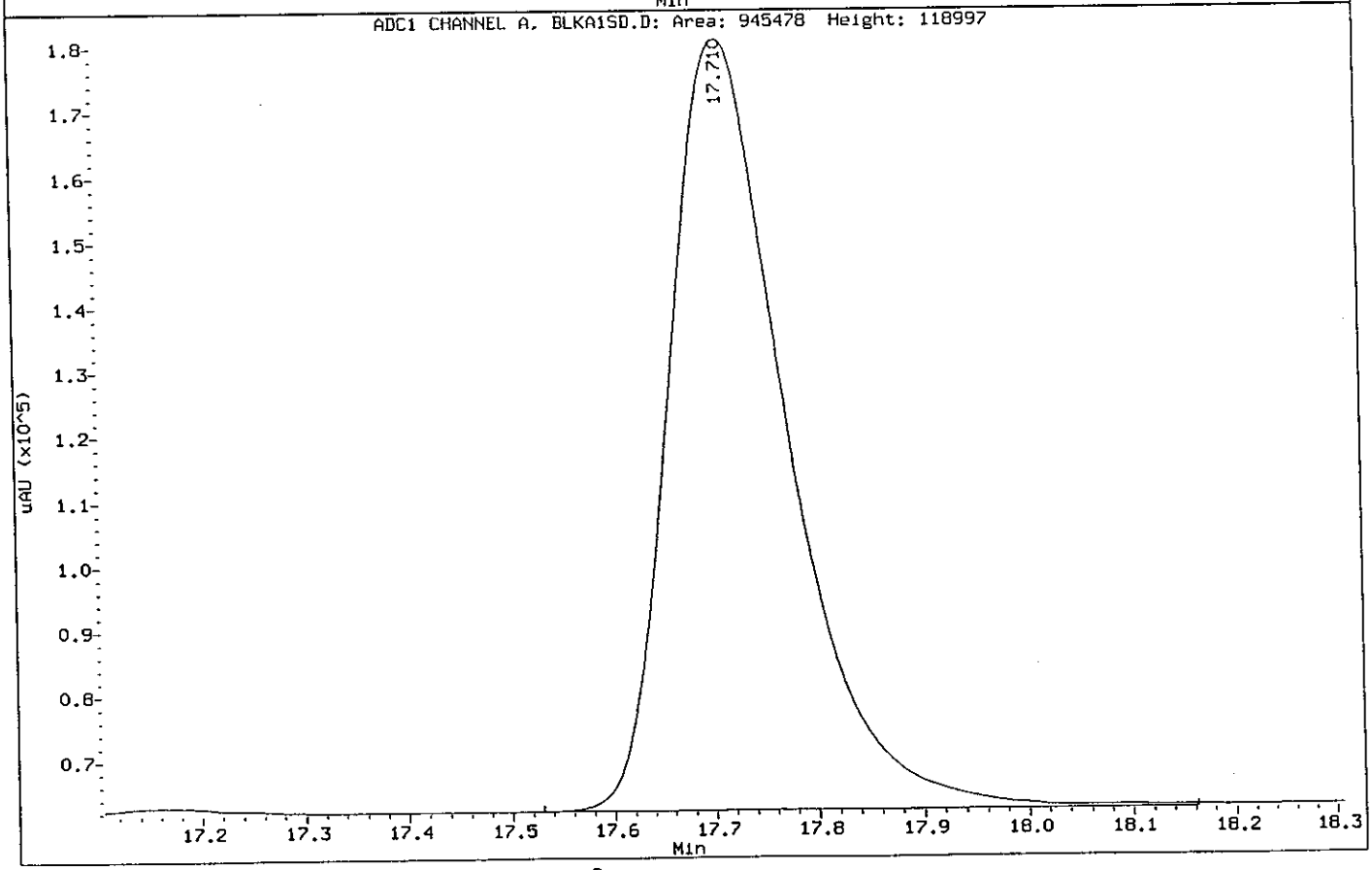
Injection Date: 24-OCT-2001 20:41
Instrument: slc02.i
Client Sample ID: BLKA1SD

Compound: Pyrene
CAS Number: 129-00-0





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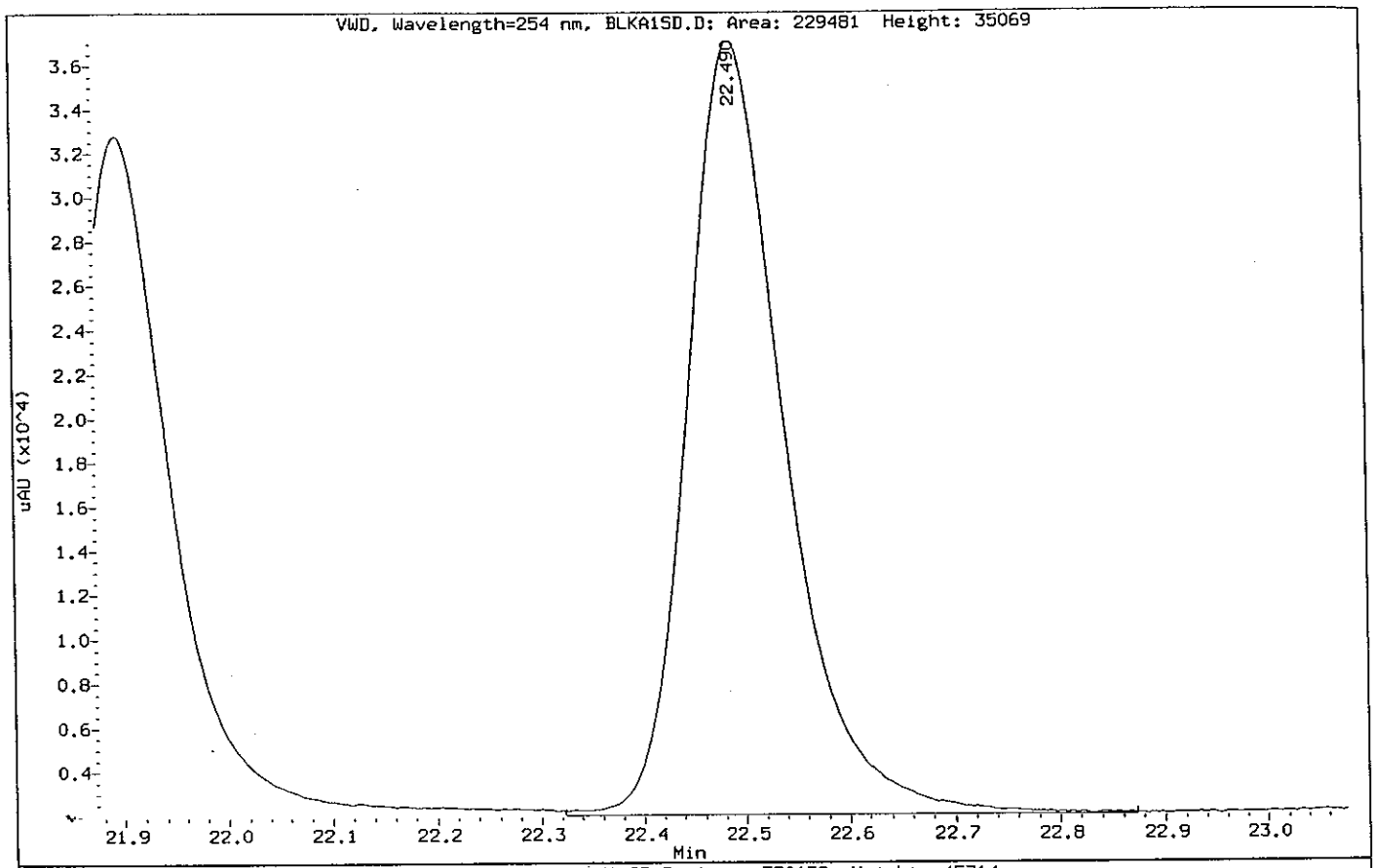
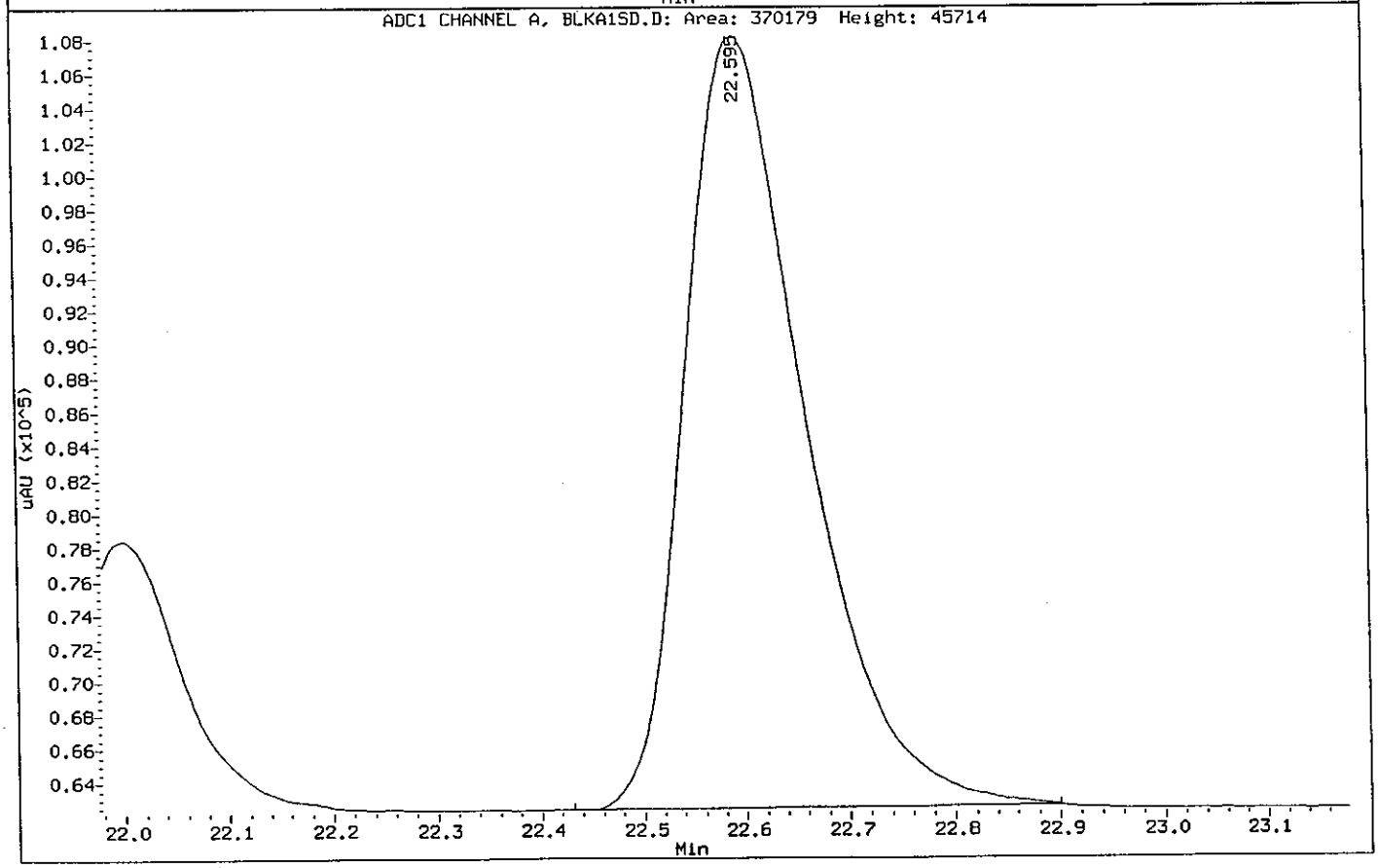
Injection Date: 24-OCT-2001 20:41
Instrument: slc02.i
Client Sample ID: BLKA1SD

Compound: Benzo(a)pyrene
CAS Number: 50-32-8





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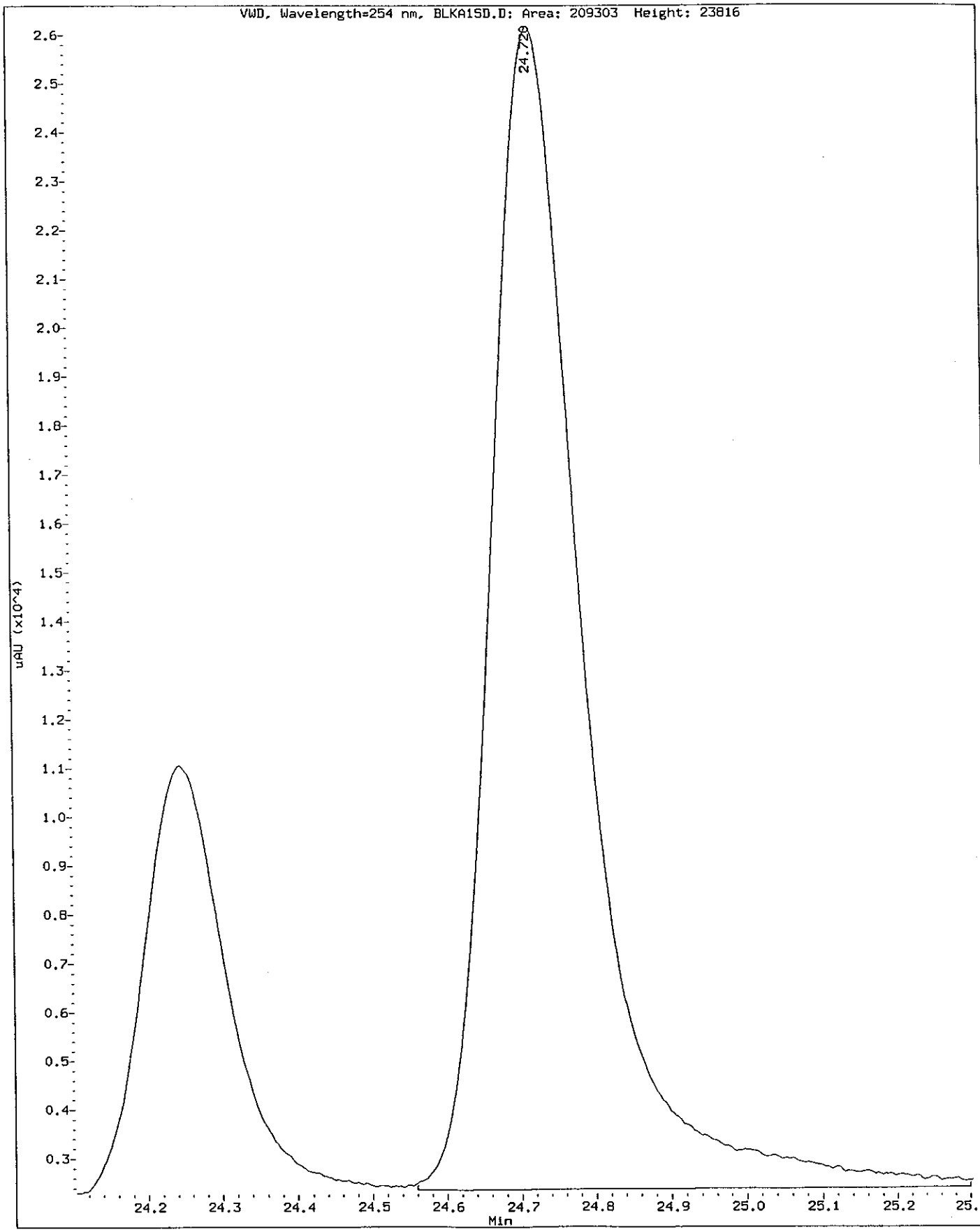
Injection Date: 24-OCT-2001 20:41
Instrument: slc02.i
Client Sample ID: BLKA1SD

Compound: Indeno(123cd)Pyrene
CAS Number: 193-39-5



PEL Laboratories

Data file : \\SVHPLC\ee\chem\slc02.i\L21024C1.b\LCS.D
Lab Smp Id: 51237 Client Smp ID: LCSA1
Inj Date : 24-OCT-2001 19:32
Operator : rood Inst ID: slc02.i
Smp Info : 51237
Misc Info :
Comment :
Method : \\SVHPLC\ee\chem\slc02.i\L21024C1.b\8310A.m
Meth Date : 02-Nov-2001 11:01 jdonnelly Quant Type: ISTD
Cal Date : 20-SEP-2001 18:48 Cal File: A5UGML.D
Als bottle: 2 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: lowcalw.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	

						CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	REL RT	SIGNAL	RESPONSE		(ug/ml)	(ug/l)	TARGET RANGE	RATIO
* 1 Carbazole (ISTD)							CAS #: 86-74-8		
10.613	10.610	(1.000)	VWD1A	251645				80.00- 120.00	100.00
10.705	10.610	(1.000)	ADC1A	2005767	10.0000			652.03- 978.05	797.06
2 Naphthalene							CAS #: 91-20-3		
11.780	11.770	(1.110)	VWD1A	26462	5.17973		5.2	80.00- 120.00	100.00(R)
11.868	11.770	(1.118)	ADC1A	25265	4.54888		4.5	82.40- 123.60	95.48
3 Acenaphthylene							CAS #: 208-96-8		
13.020	13.013	(1.227)	VWD1A	22965	6.03420		6.0		
4 1-Methyl naphthalene							CAS #: 90-12-0		
13.646	13.633	(1.286)	VWD1A	18408	6.01830		6.0	80.00- 120.00	100.00
13.738	13.633	(1.294)	ADC1A	55896	4.58489		4.6	296.60- 444.90	303.65

RT	EXP RT	REL RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	CONCENTRATIONS FINAL (ug/l)	TARGET RANGE	RATIO
5 2-Methyl naphthalene						CAS #: 91-57-6		
13.986	13.973	(1.318)	VWD1A	24825	5.72762	5.7	80.00- 120.00	100.00(R)
14.077	13.973	(1.326)	ADC1A	47308	4.49520	4.5	191.55- 287.32	190.57
6 Acenaphthene						CAS #: 83-32-9		
14.326	14.310	(1.350)	VWD1A	12229	5.81043	5.8	80.00- 120.00	100.00(R)
14.413	14.310	(1.358)	ADC1A	125883	4.92241	4.9	964.12-1446.17	1029.38
7 Fluorene						CAS #: 86-73-7		
14.693	14.680	(1.384)	VWD1A	148998	6.35759	6.4	80.00- 120.00	100.00
14.778	14.680	(1.392)	ADC1A	16713	5.73115	5.7	9.06- 13.59	11.22
8 Phenanthrene						CAS #: 85-01-8		
15.510	15.500	(1.461)	VWD1A	452173	6.90831	6.9	80.00- 120.00	100.00
15.603	15.500	(1.470)	ADC1A	415895	6.62882	6.6	78.58- 117.87	91.98
9 Anthracene						CAS #: 120-12-7		
16.236	16.223	(1.530)	VWD1A	1038218			80.00- 120.00	100.00(M)
16.325	16.223	(1.538)	ADC1A	55762	6.19725	6.2	5.00- 7.50	5.37
10 Fluoranthene						CAS #: 206-44-0		
17.083	17.066	(1.610)	VWD1A	110850	7.08622	7.1	80.00- 120.00	100.00(M)
17.192	17.066	(1.620)	ADC1A	8695	6.99894	7.0	6.36- 9.54	7.84
11 Pyrene						CAS #: 129-00-0		
17.623	17.606	(1.660)	VWD1A	90671	7.49810	7.5	80.00- 120.00	100.00(M)
17.718	17.606	(1.669)	ADC1A	1082904	8.71205	8.7	930.64-1395.96	1194.32
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.610	18.593	(1.753)	VWD1A	218471	16.1516	16.2	80.00- 120.00	100.00
18.705	18.593	(1.762)	ADC1A	6127287	15.0390	15.0	2246.35-3369.53	2804.62
13 Benzo(a)Anthracene						CAS #: 56-55-3		
19.443	19.426	(1.832)	VWD1A	271389	7.32470	7.3	80.00- 120.00	100.00
19.538	19.426	(1.841)	ADC1A	3010117	7.03772	7.0	881.58-1322.37	1109.15
14 Chrysene						CAS #: 218-01-9		
19.836	19.820	(1.869)	VWD1A	377411	7.26300	7.3	80.00- 120.00	100.00
19.937	19.820	(1.878)	ADC1A	891245	7.25212	7.2	190.14- 285.21	236.15
15 Benzo(b)Fluoranthene						CAS #: 205-99-2		
21.276	21.253	(2.005)	VWD1A	300507	7.49346	7.5	80.00- 120.00	100.00
21.378	21.253	(2.014)	ADC1A	69352	6.13581	6.1	20.85- 31.28	23.08
16 Benzo(k)Fluoranthene						CAS #: 207-08-9		
21.910	21.883	(2.064)	VWD1A	223324	7.22651	7.2	80.00- 120.00	100.00

RT	EXP RT	REL RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/l)	TARGET RANGE	RATIO	
16 Benzo(k)Fluoranthene (continued)									
22.008	21.883	(2.074)	ADC1A	133597	6.09119	6.1	52.76- 79.15	59.82	
17 Benzo(a)pyrene						CAS #: 50-32-8			
22.506	22.476	(2.121)	VWD1A	259145	7.27692	7.3	80.00- 120.00	100.00	
22.435	22.476	(2.114)	ADC1A	86	0.00136	0.0014	138.13- 207.19	0.03	
18 Dibenz(ah)Anthracene						CAS #: 53-70-3			
23.530	23.493	(2.217)	VWD1A	48246	5.50770	5.5	80.00- 120.00	100.00	(R)
23.627	23.493	(2.226)	ADC1A	507340	4.86846	4.9	949.04-1423.56	1051.57	
19 Benzo(ghi)Perylene						CAS #: 191-24-2			
24.263	24.226	(2.286)	VWD1A	76124			80.00- 120.00	100.00	(R)
24.363	24.226	(2.296)	ADC1A	131049	4.31262	4.3	155.32- 232.98	172.15	
20 Indeno(123cd)Pyrene						CAS #: 193-39-5			
24.740	24.703	(2.331)	VWD1A	214875	5.82785	5.8			(RM)

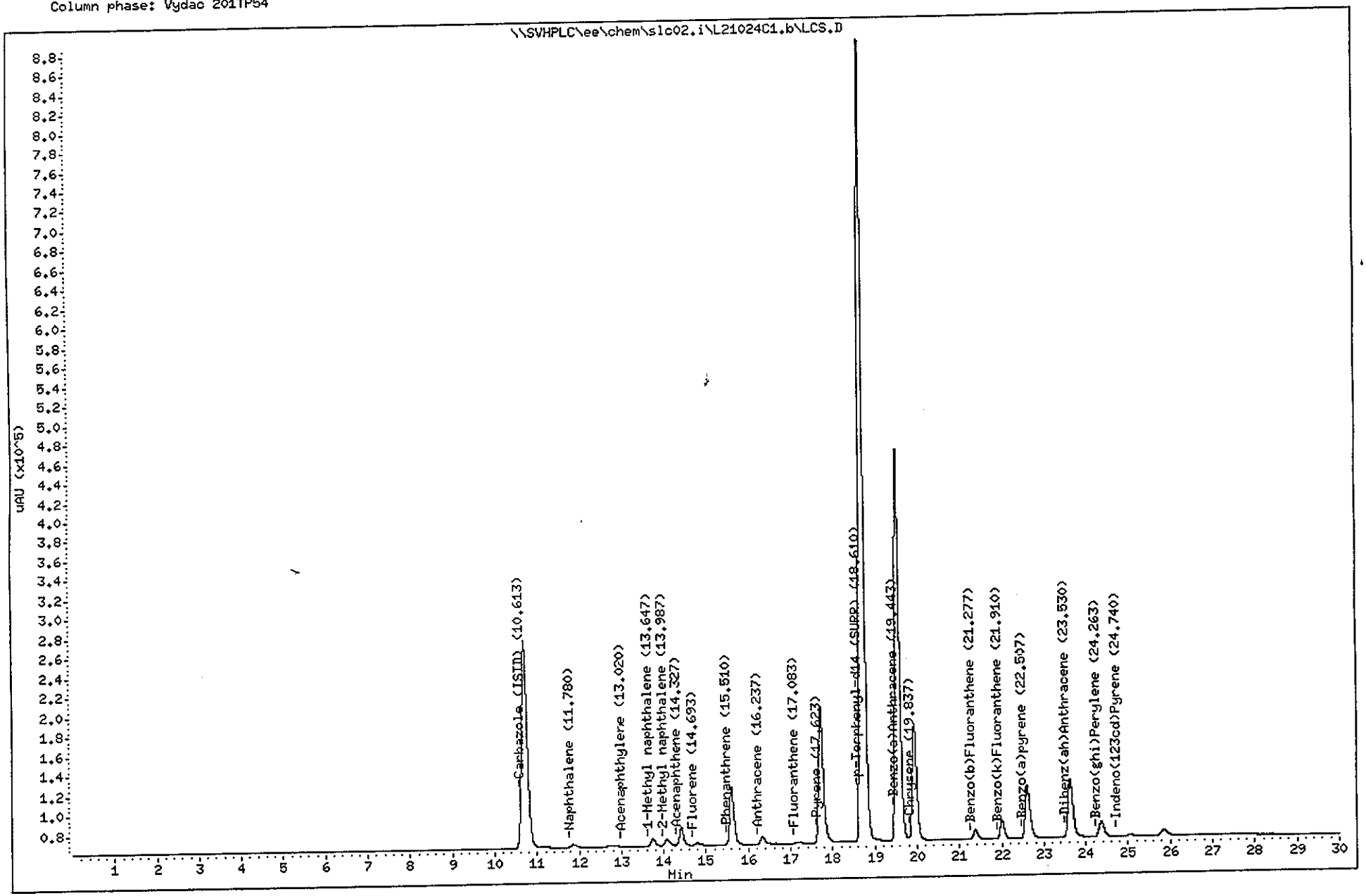
QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\SVHPLC\ee\chem\slc02.i\L21024C1.b\LCS.D
Date : 24-OCT-2001 19:32
Client ID: LCSA1
Sample Info: 51237
Purge Volume: 1000.0
Column phase: Vydac 201TP54

Instrument: slc02.i

Operator: rood
Column diameter: 4.60



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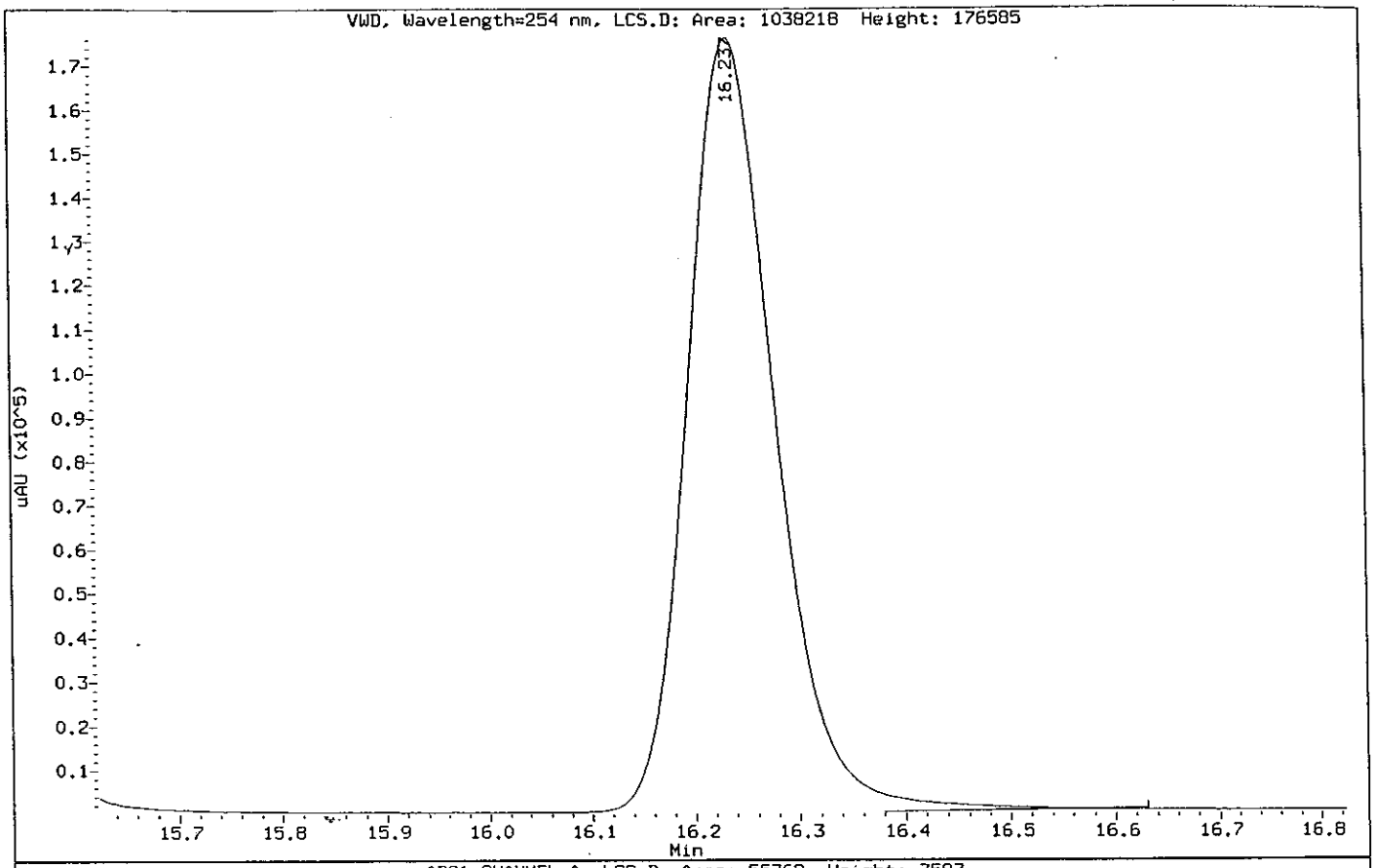
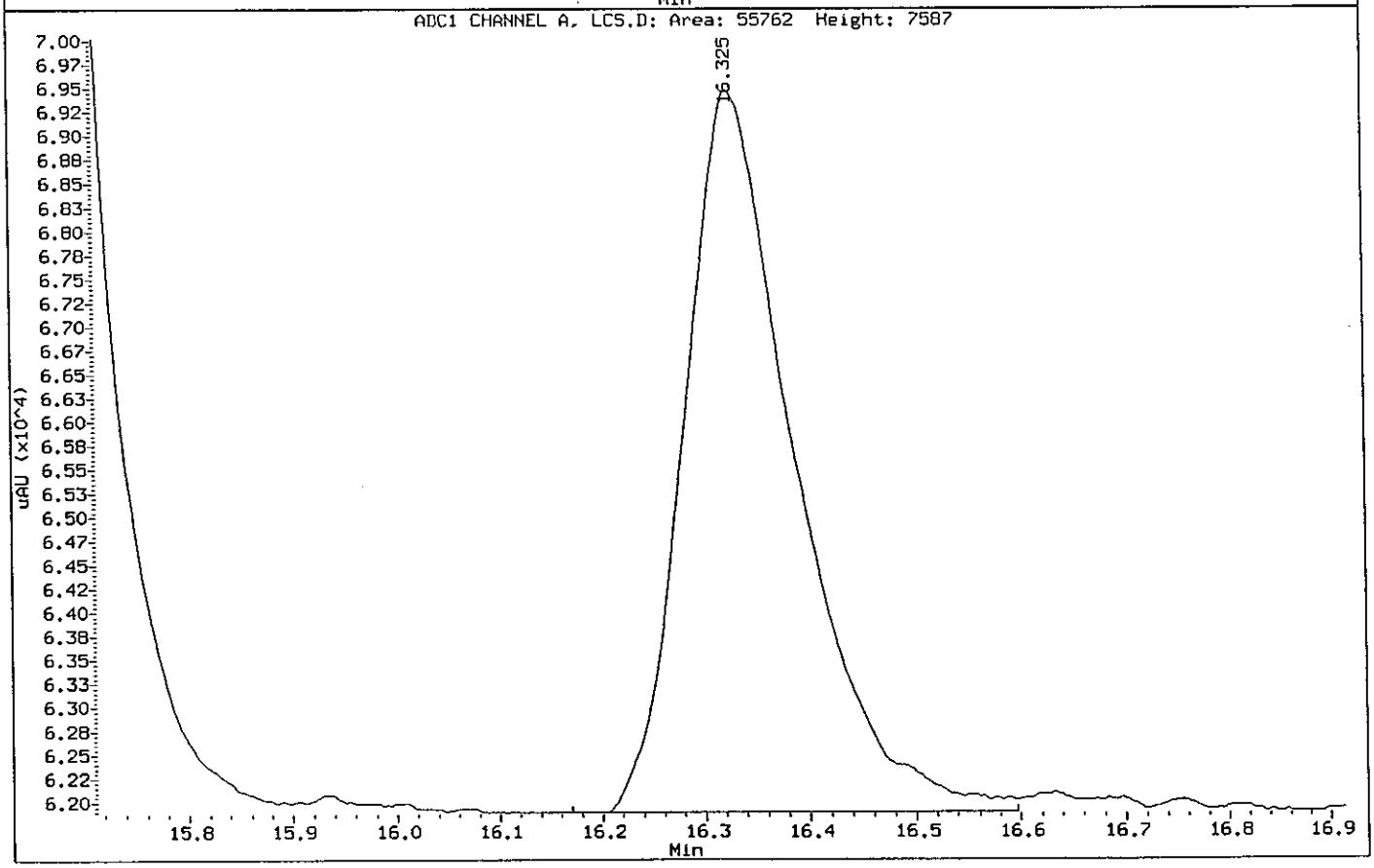
Injection Date: 24-OCT-2001 19:32
Instrument: sic02.i
Client Sample ID: LCSA1

Compound: Anthracene
CAS Number: 120-12-7





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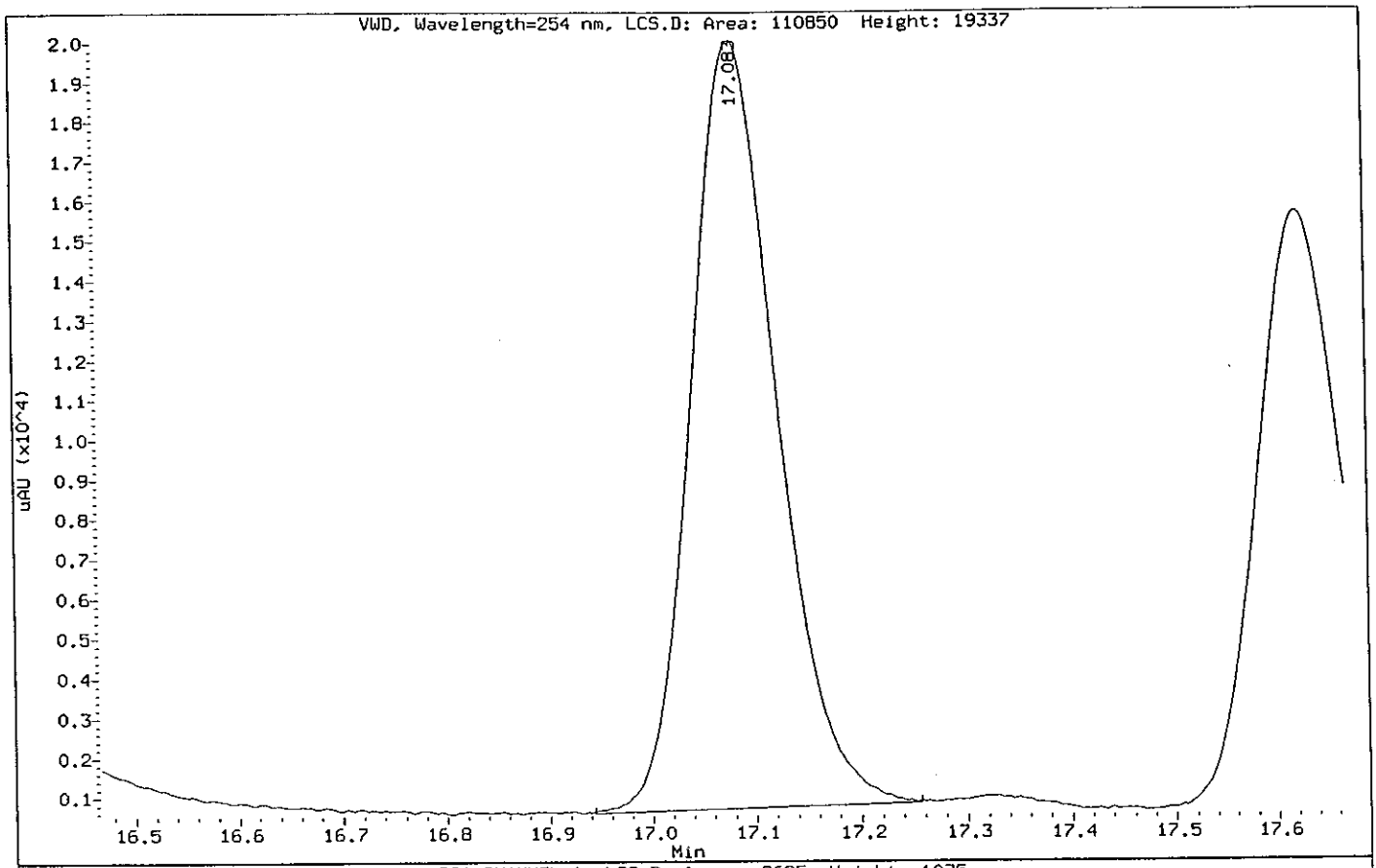
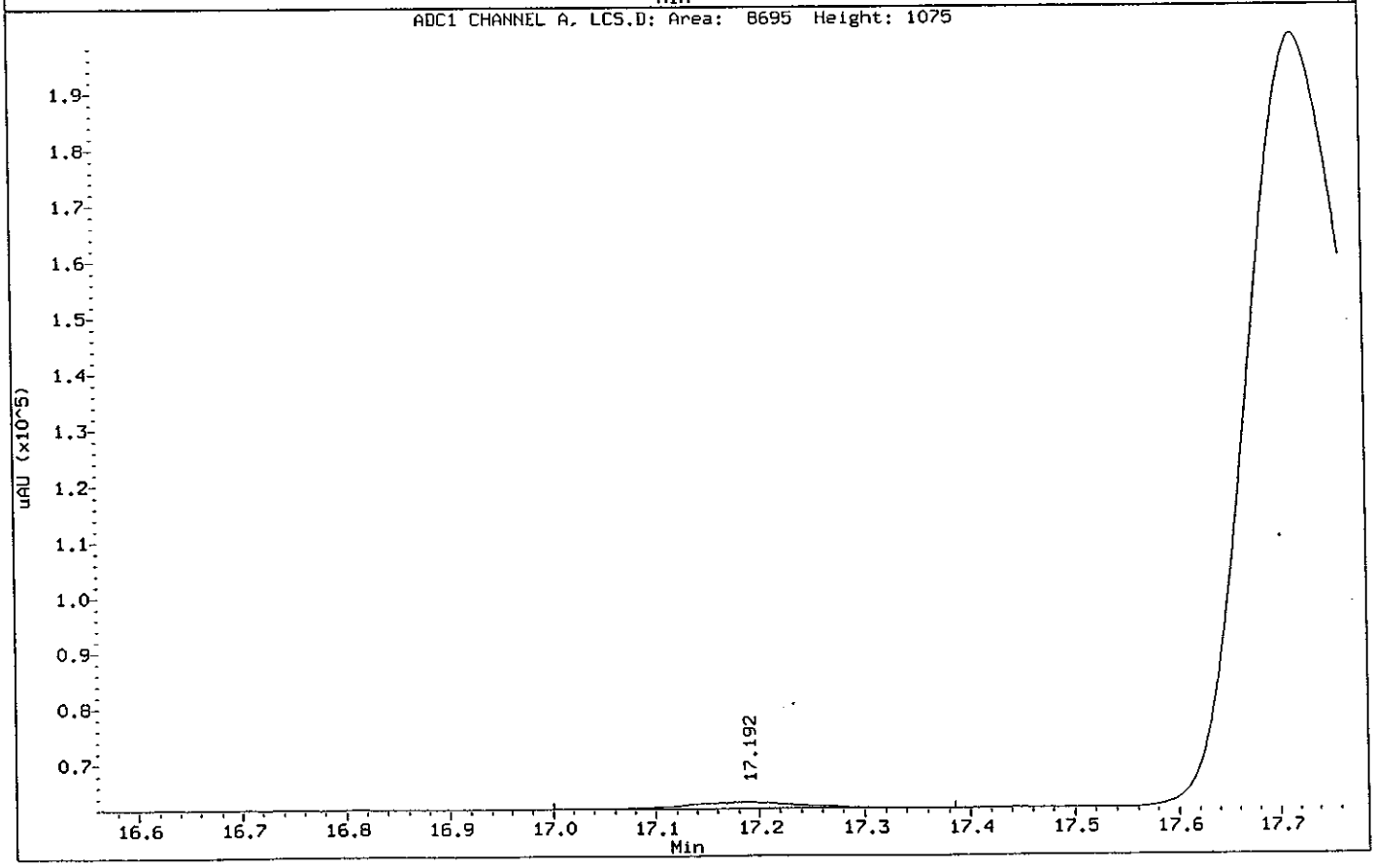
Injection Date: 24-OCT-2001 19:32
Instrument: slc02.i
Client Sample ID: LCSA1

Compound: Fluoranthene
CAS Number: 206-44-0





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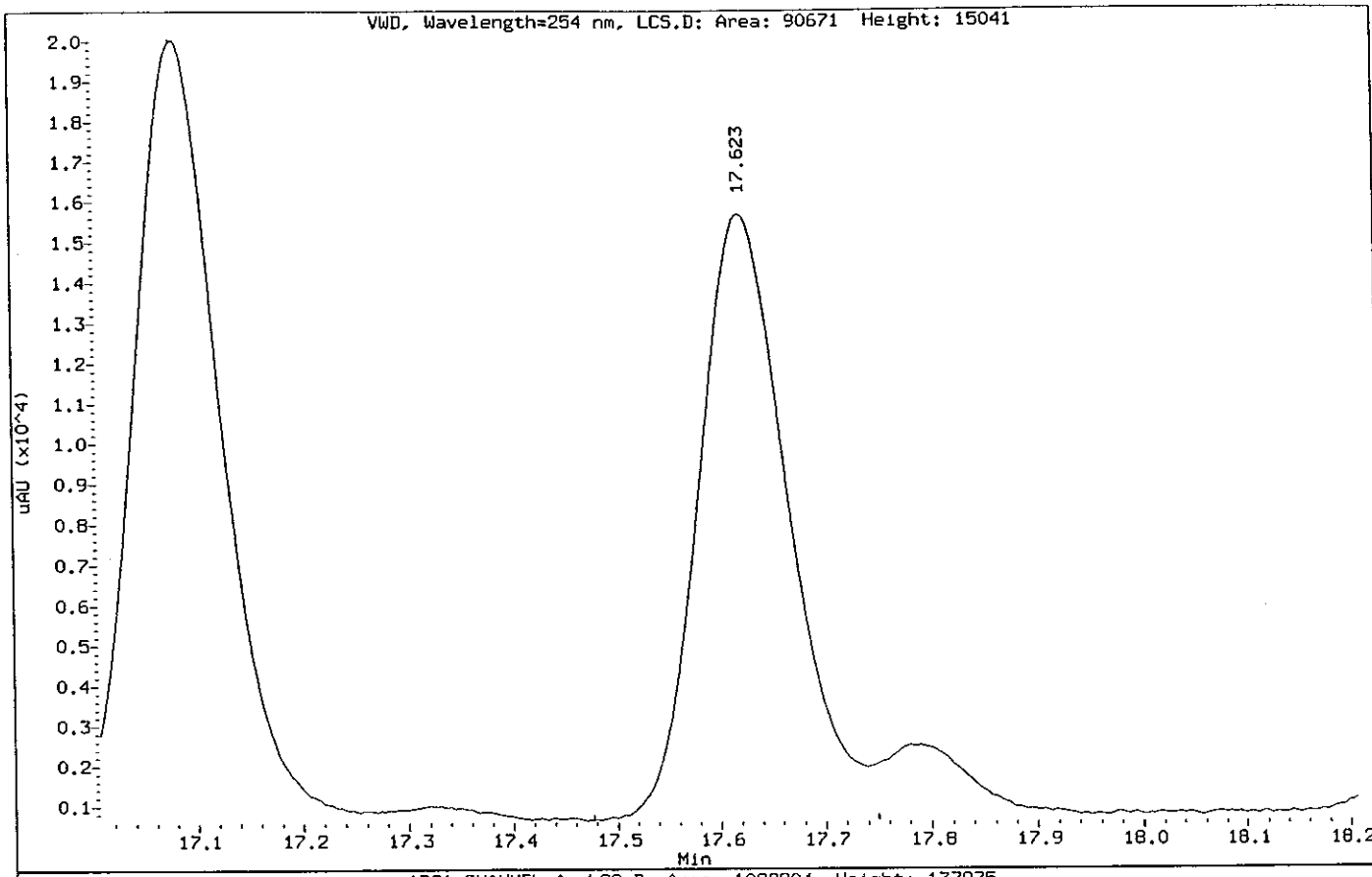
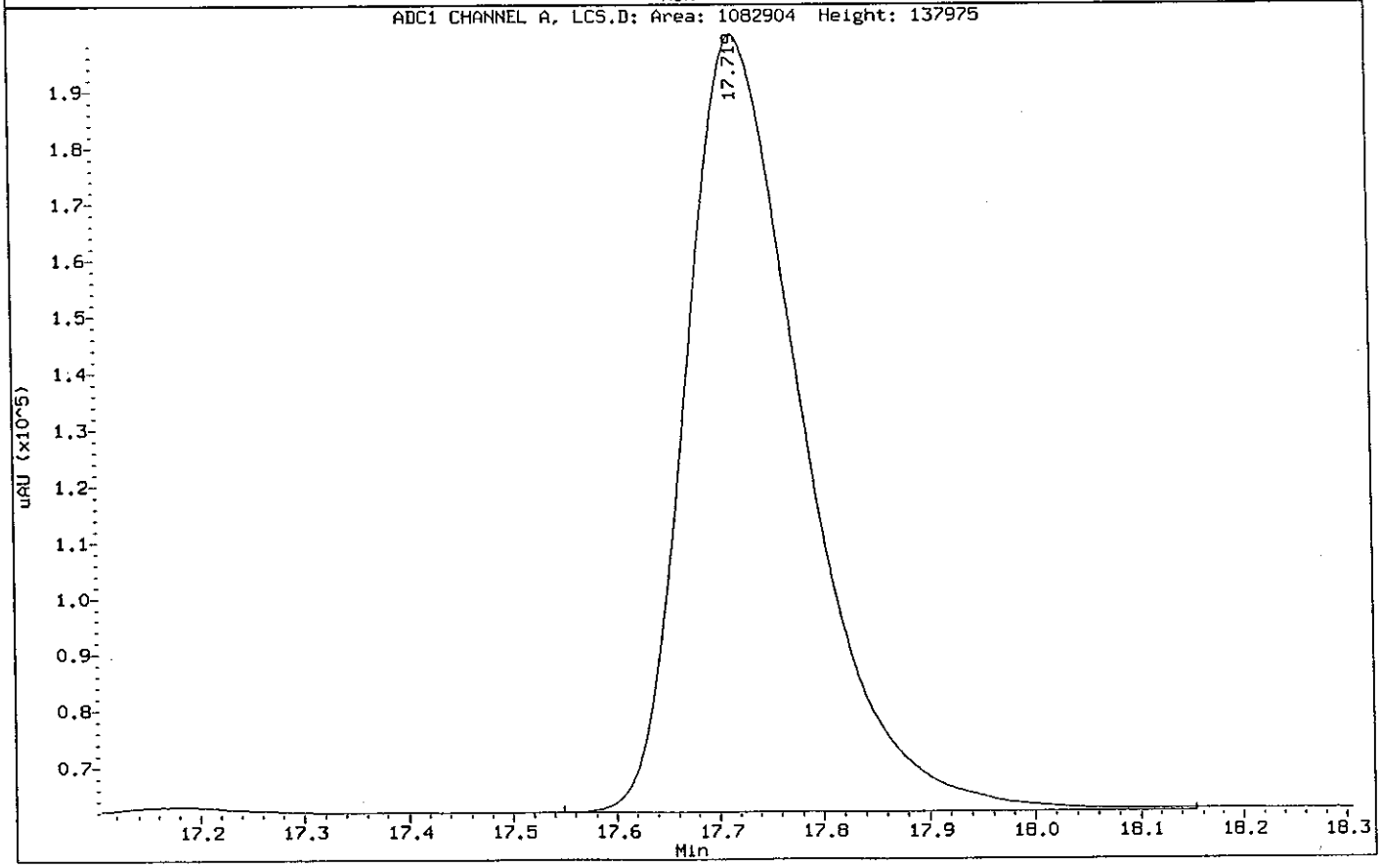
Injection Date: 24-OCT-2001 19:32
Instrument: slc02.i
Client Sample ID: LCSA1

Compound: Pyrene
CAS Number: 129-00-0





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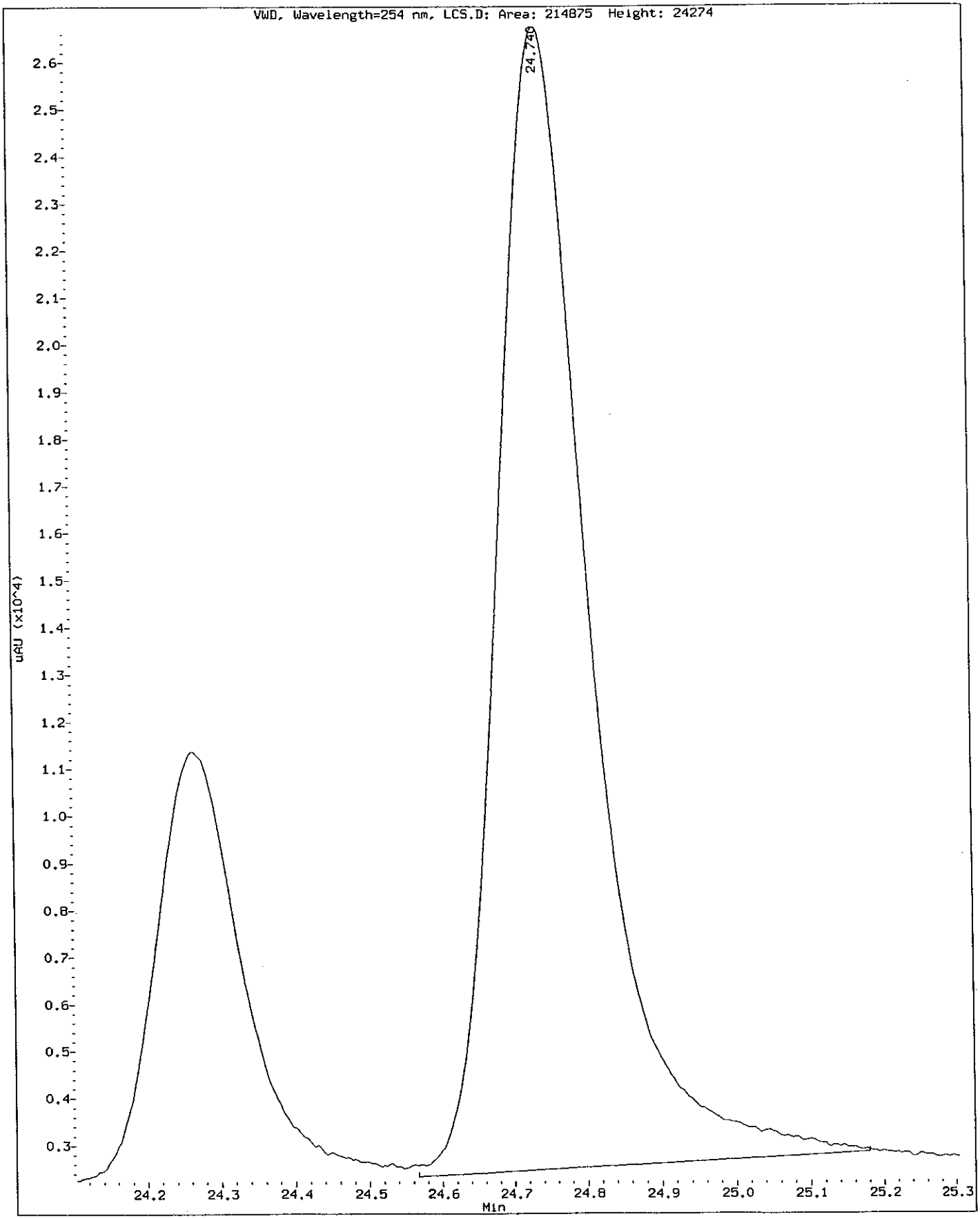
Injection Date: 24-OCT-2001 19:32
Instrument: slc02.i
Client Sample ID: LCSA1

Compound: Indeno(123cd)Pyrene
CAS Number: 193-39-5



PEL Laboratories

Data file : \\SVHPLC\ee\chem\slc02.i\L21024C1.b\094-20.D
Lab Smp Id: 211009420 Client Smp ID: 062EB1W101801
Inj Date : 24-OCT-2001 21:50
Operator : rood Inst ID: slc02.i
Smp Info : 211009420
Misc Info :
Comment :
Method : \\SVHPLC\ee\chem\slc02.i\L21024C1.b\8310A.m
Meth Date : 02-Nov-2001 11:01 jdonnelly Quant Type: ISTD
Cal Date : 20-SEP-2001 18:48 Cal File: A5UGML.D
Als bottle: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: lowcalw.sub
Target Version: 4.04 Sample Matrix: WATER
Processing Host: FORMS1

Concentration Formula: Amt * DF * 1/(Vo/1000)*Vt

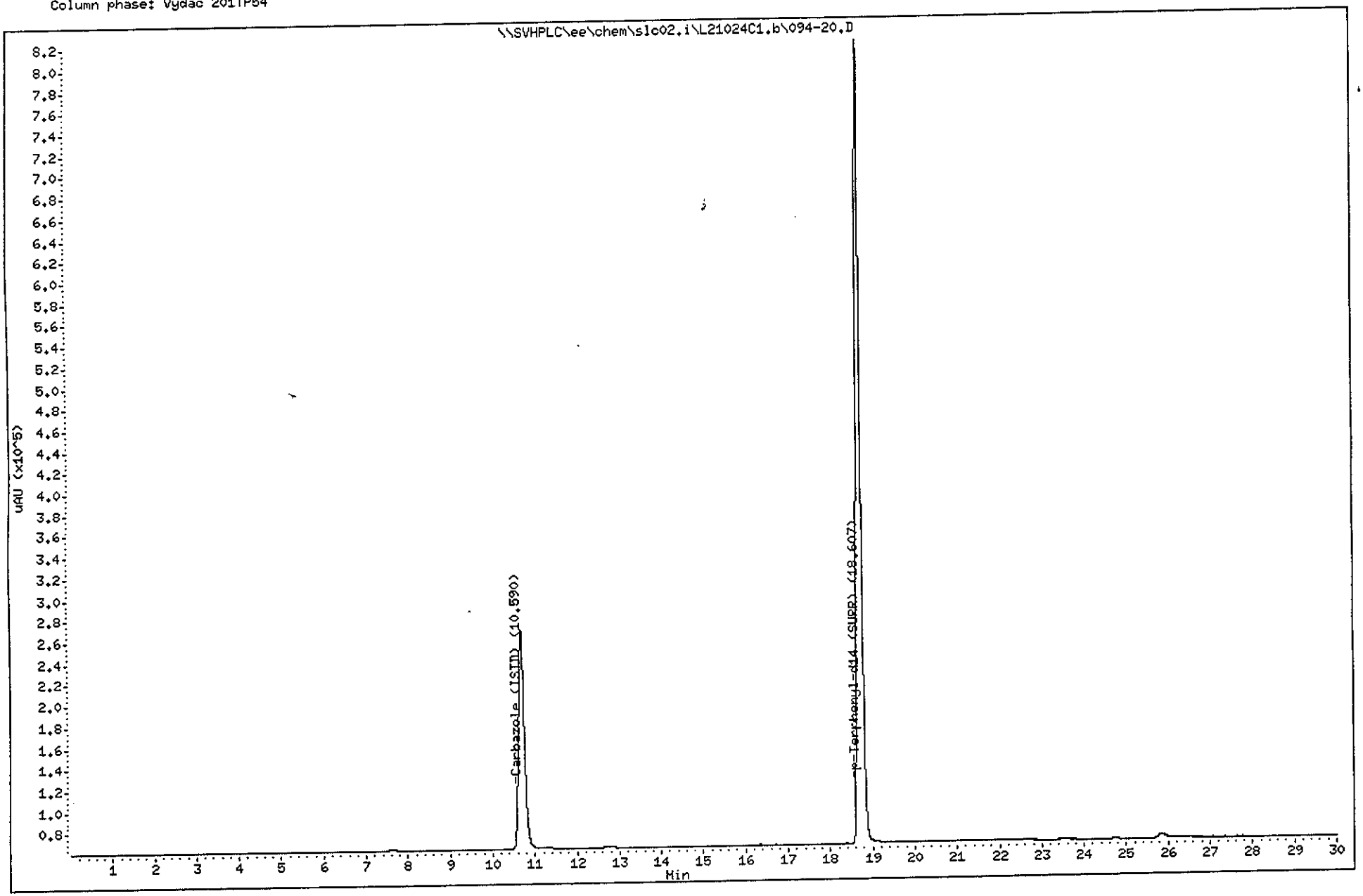
Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume Extracted
Vt	1.000	

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	REL RT	SIGNAL	RESPONSE	(ug/ml)	(ug/l)	TARGET RANGE	RATIO
* 1 Carbazole (ISTD)							CAS #: 86-74-8	
10.590	10.610	(1.000)	VWD1A	251963			80.00- 120.00	100.00
10.683	10.610	(1.000)	ADC1A	1988755	10.0000		652.03- 978.05	789.30
$ 12 p-Terphenyl-d14 (SURR)							CAS #: 1718-51-0	
18.606	18.593	(1.757)	VWD1A	200866	14.9771	15.0	80.00- 120.00	100.00
18.700	18.593	(1.766)	ADC1A	5720790	14.1614	14.2	2246.35-3369.53	2848.06

Data File: \\SVHPLC\ee\chem\slc02.i\L21024C1.b\094-20.D
Date : 24-OCT-2001 21:50
Client ID: 062EB1W101801
Sample Info: 211009420
Purge Volume: 1000.0
Column phase: Vydac 201TP54

Instrument: slc02.i

Operator: rood
Column diameter: 4.60



PEL Laboratories

Data file : \\SVHPLC\ee\chem\slc02.i\L21024C1.b\CCV1C.D
Lab Smp Id: 15std3206 Client Smp ID: 15std3206
Inj Date : 25-OCT-2001 02:27
Operator : rood Inst ID: slc02.i
Smp Info : CCVSV3206A
Misc Info :
Comment :
Method : \\SVHPLC\ee\chem\slc02.i\L21024C1.b\8310A.m
Meth Date : 02-Nov-2001 11:01 jdonnelly Quant Type: ISTD
Cal Date : 20-SEP-2001 18:48 Cal File: A5UGML.D
Als bottle: 21 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.04 Sample Matrix: WATER
Processing Host: FORMS1

Concentration Formula: Amt * DF * 1/(Vo/1000)*Vt

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume Extracted
Vt	1.000	

						AMOUNTS CAL-AMT	ON-COL		
RT	EXP RT	REL RT	SIGNAL	RESPONSE		(ug/ml)	(ug/ml)	TARGET RANGE	RATIO
* 1 Carbazole (ISTD)							CAS #: 86-74-8		
10.610	10.610	(1.000)	VWD1A	238512				80.00- 120.00	100.00(M)
10.698	10.610	(1.008)	ADC1A	1943965	10.0000			652.03- 978.05	815.04
2 Naphthalene							CAS #: 91-20-3		
11.770	11.770	(1.109)	VWD1A	83232	15.0000		16.8	80.00- 120.00	100.00
11.859	11.770	(1.118)	ADC1A	85730	15.0000		15.9	82.40- 123.60	103.00
3 Acenaphthylene							CAS #: 208-96-8		
13.013	13.013	(1.227)	VWD1A	57331	15.0000		15.5		
4 1-Methyl naphthalene							CAS #: 90-12-0		
13.633	13.633	(1.285)	VWD1A	50475	15.0000		17.0	80.00- 120.00	100.00(M)
13.726	13.633	(1.294)	ADC1A	187136	15.0000		15.8	296.60- 444.90	370.75

					AMOUNTS CAL-AMT	ON-COL		
RT	EXP RT	REL RT	SIGNAL	RESPONSE	(ug/ml)	(ug/ml)	TARGET RANGE	RATIO
5 2-Methyl naphthalene						CAS #: 91-57-6		
13.973	13.973	(1.317)	VWD1A	69315	15.0000	16.5	80.00- 120.00	100.00
14.063	13.973	(1.325)	ADC1A	165962	15.0000	16.3	191.55- 287.32	239.43
6 Acenaphthene						CAS #: 83-32-9		
14.310	14.310	(1.349)	VWD1A	31099	15.0000	15.2	80.00- 120.00	100.00
14.399	14.310	(1.357)	ADC1A	374788	15.0000	15.1	964.12-1446.17	1205.14
7 Fluorene						CAS #: 86-73-7		
14.680	14.680	(1.384)	VWD1A	371189	15.0000	16.3	80.00- 120.00	100.00
14.768	14.680	(1.392)	ADC1A	42038	15.0000	14.9	9.06- 13.59	11.33
8 Phenanthrene						CAS #: 85-01-8		
15.500	15.500	(1.461)	VWD1A	1010266	15.0000	15.9	80.00- 120.00	100.00(M)
15.589	15.500	(1.469)	ADC1A	992341	15.0000	16.3	78.58- 117.87	98.23
9 Anthracene						CAS #: 120-12-7		
16.223	16.223	(1.529)	VWD1A	2299432			80.00- 120.00	100.00(M)
16.313	16.223	(1.538)	ADC1A	143712	15.0000	16.5	5.00- 7.50	6.25
10 Fluoranthene						CAS #: 206-44-0		
17.066	17.066	(1.609)	VWD1A	240247	15.0000	15.8	80.00- 120.00	100.00
17.163	17.066	(1.618)	ADC1A	19106	15.0000	15.9	6.36- 9.54	7.95
11 Pyrene						CAS #: 129-00-0		
17.606	17.606	(1.659)	VWD1A	197780	15.0000	16.9	80.00- 120.00	100.00(M)
17.704	17.606	(1.669)	ADC1A	2300771	15.0000	19.1	930.64-1395.96	1163.30
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.593	18.593	(1.752)	VWD1A	219889	15.0000	16.8	80.00- 120.00	100.00
18.689	18.593	(1.762)	ADC1A	6174351	15.0000	15.6	2246.35-3369.53	2807.94
13 Benzo(a)Anthracene						CAS #: 56-55-3		
19.426	19.426	(1.831)	VWD1A	579711	15.0000	16.1	80.00- 120.00	100.00
19.518	19.426	(1.840)	ADC1A	6388274	15.0000	15.4	881.58-1322.37	1101.98
14 Chrysene						CAS #: 218-01-9		
19.820	19.820	(1.868)	VWD1A	810951	15.0000	16.1	80.00- 120.00	100.00
19.916	19.820	(1.877)	ADC1A	1927431	15.0000	16.2	190.14- 285.21	237.68
15 Benzo(b)Fluoranthene						CAS #: 205-99-2		
21.253	21.253	(2.003)	VWD1A	649681	15.0000	16.7	80.00- 120.00	100.00
21.348	21.253	(2.012)	ADC1A	169360	15.0000	15.5	20.85- 31.28	26.07
16 Benzo(k)Fluoranthene						CAS #: 207-08-9		
21.883	21.883	(2.063)	VWD1A	489591	15.0000	16.3	80.00- 120.00	100.00

RT	EXP RT	REL RT	SIGNAL	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
16 Benzo(k)Fluoranthene (continued)									
21.983	21.883	(2.072)	ADC1A	322908	15.0000	15.2	52.76- 79.15	65.95	
17 Benzo(a)pyrene						CAS #: 50-32-8			
22.476	22.476	(2.118)	VWD1A	576627	15.0000	16.7	80.00- 120.00	100.00	
22.578	22.476	(2.128)	ADC1A	995594	15.0000	16.3	138.13- 207.19	172.66	
18 Dibenz(ah)Anthracene						CAS #: 53-70-3			
23.493	23.493	(2.214)	VWD1A	129585	15.0000	15.3	80.00- 120.00	100.00	
23.591	23.493	(2.224)	ADC1A	1537265	15.0000	15.2	949.04-1423.56	1186.30	
19 Benzo(ghi)Perylene						CAS #: 191-24-2			
24.226	24.226	(2.283)	VWD1A	216280			80.00- 120.00	100.00	
24.324	24.226	(2.293)	ADC1A	419911	15.0000	14.2	155.32- 232.98	194.15	
20 Indeno(123cd)Pyrene						CAS #: 193-39-5			
24.703	24.703	(2.328)	VWD1A	589099	15.0000	16.5			(M)

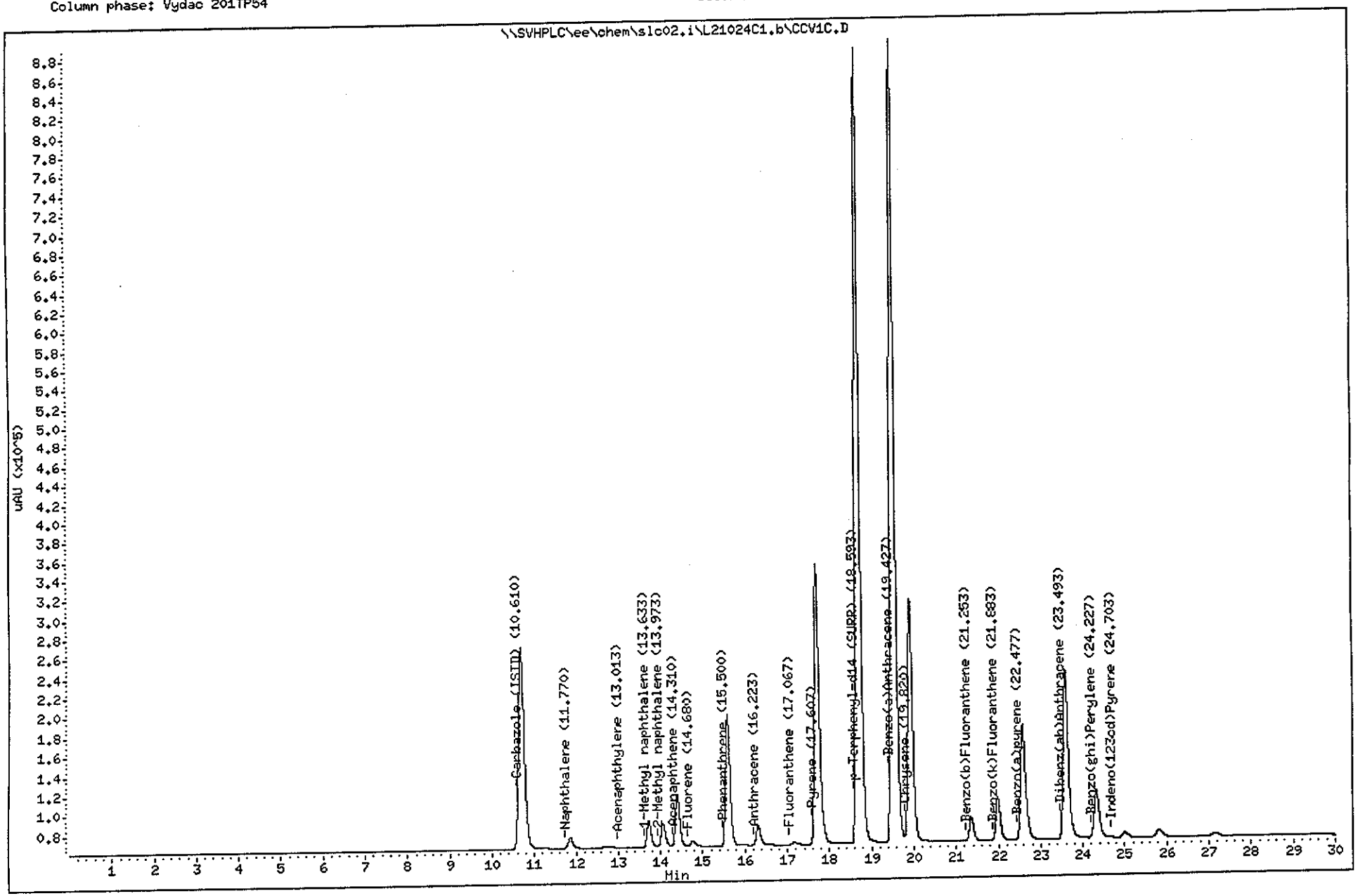
QC Flag Legend

M - Compound response manually integrated.

Data File: \\SVHPLC\ee\chem\slc02.i\L21024C1.b\CCV1C.D
Date : 25-OCT-2001 02:27
Client ID: 15std3206
Sample Info: CCVSV3206A
Purge Volume: 1000.0
Column phase: Vydac 201TP54

Instrument: slc02.i

Operator: rood
Column diameter: 4.60



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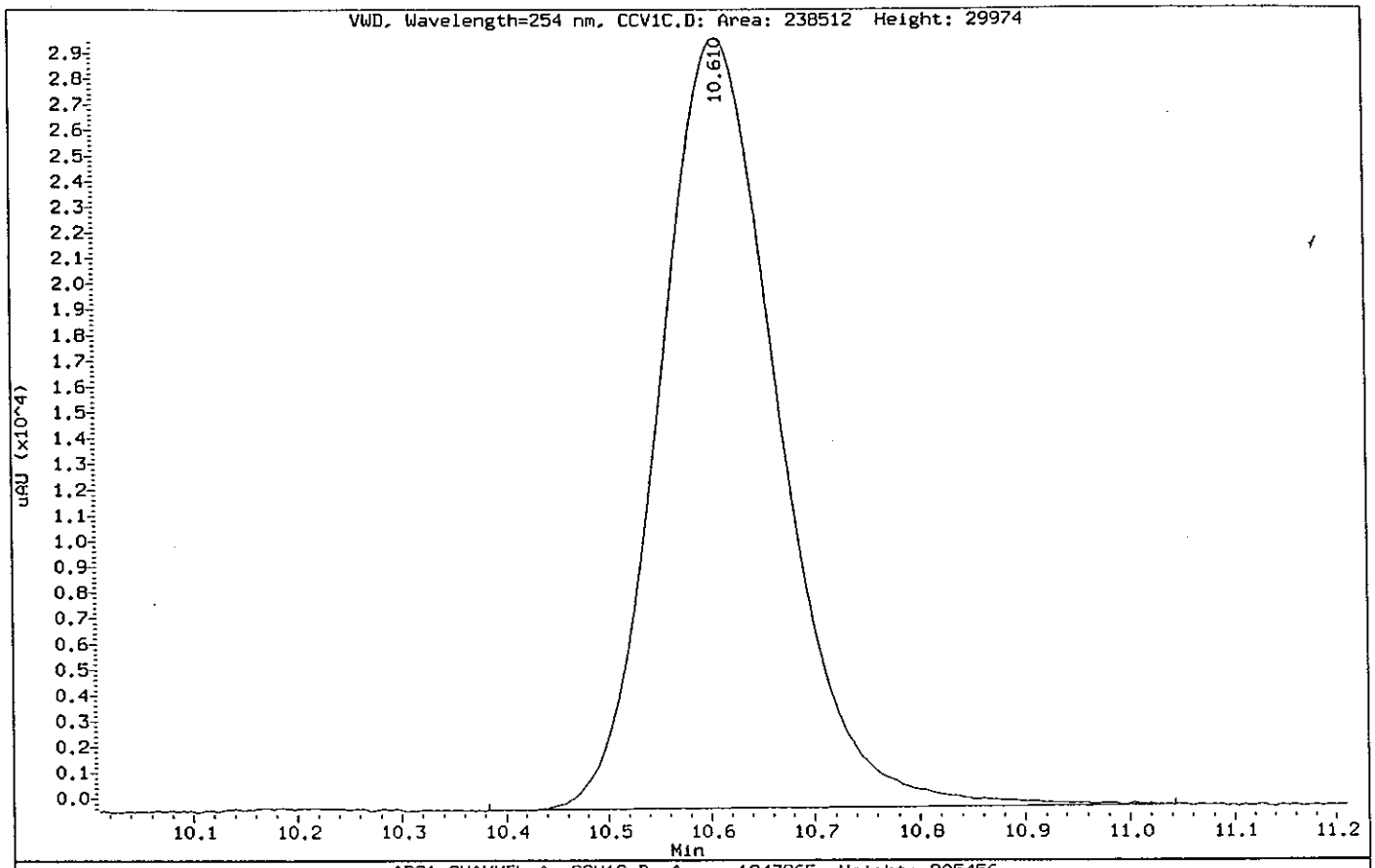
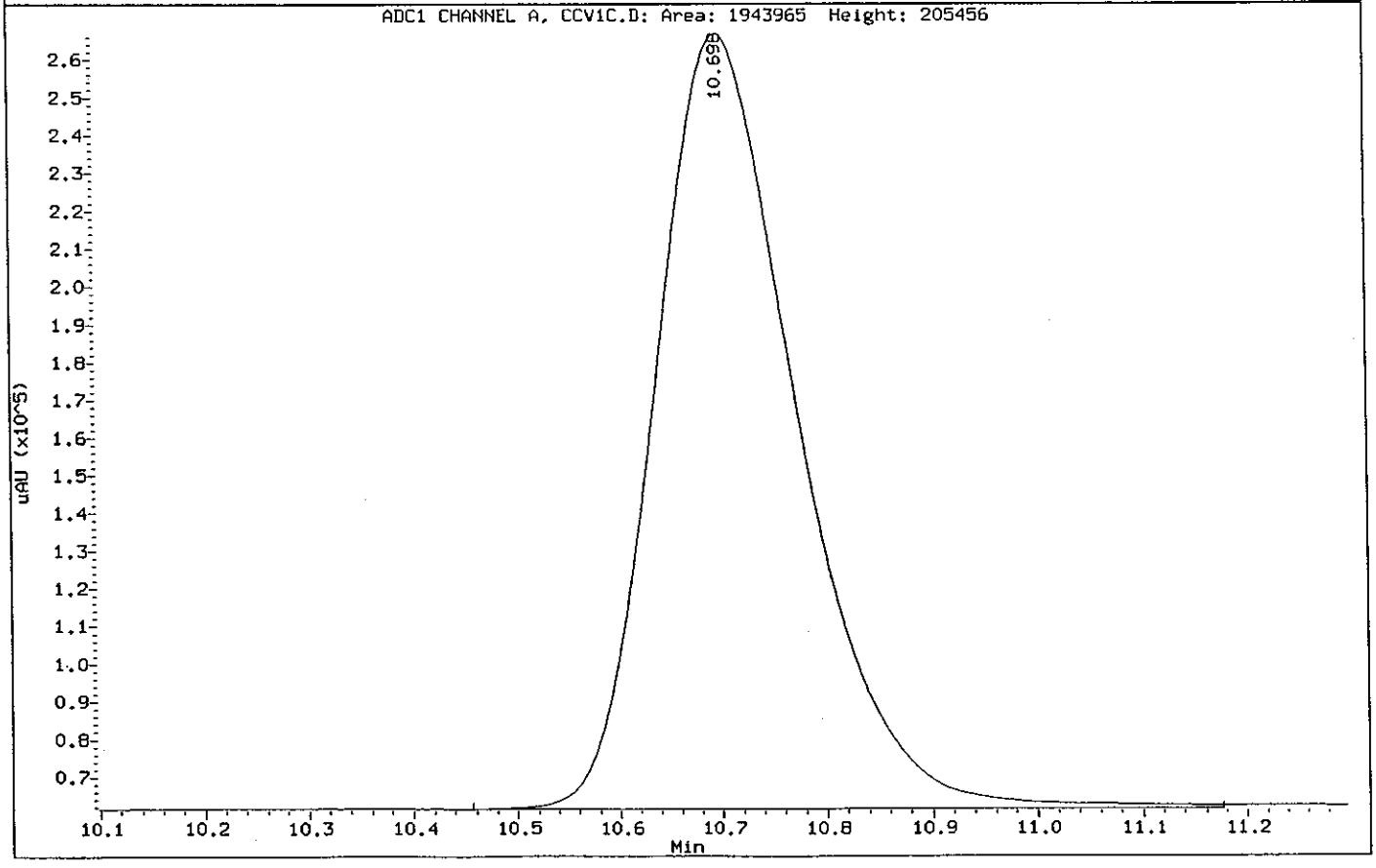
Injection Date: 25-OCT-2001 02:27
Instrument: slc02.i
Client Sample ID: 15std3206

Compound: Carbazole (ISTD)
CAS Number: 86-74-8





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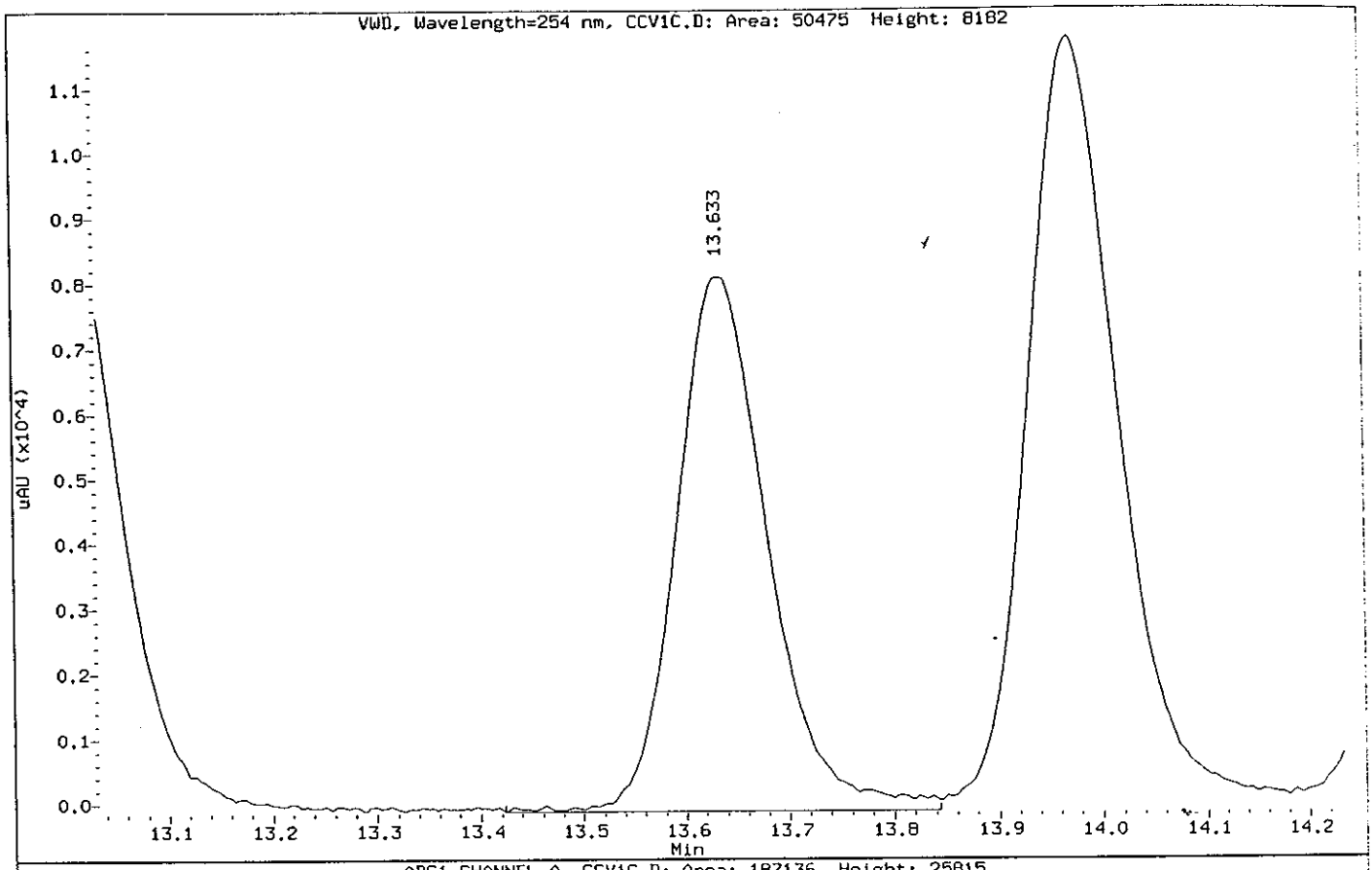
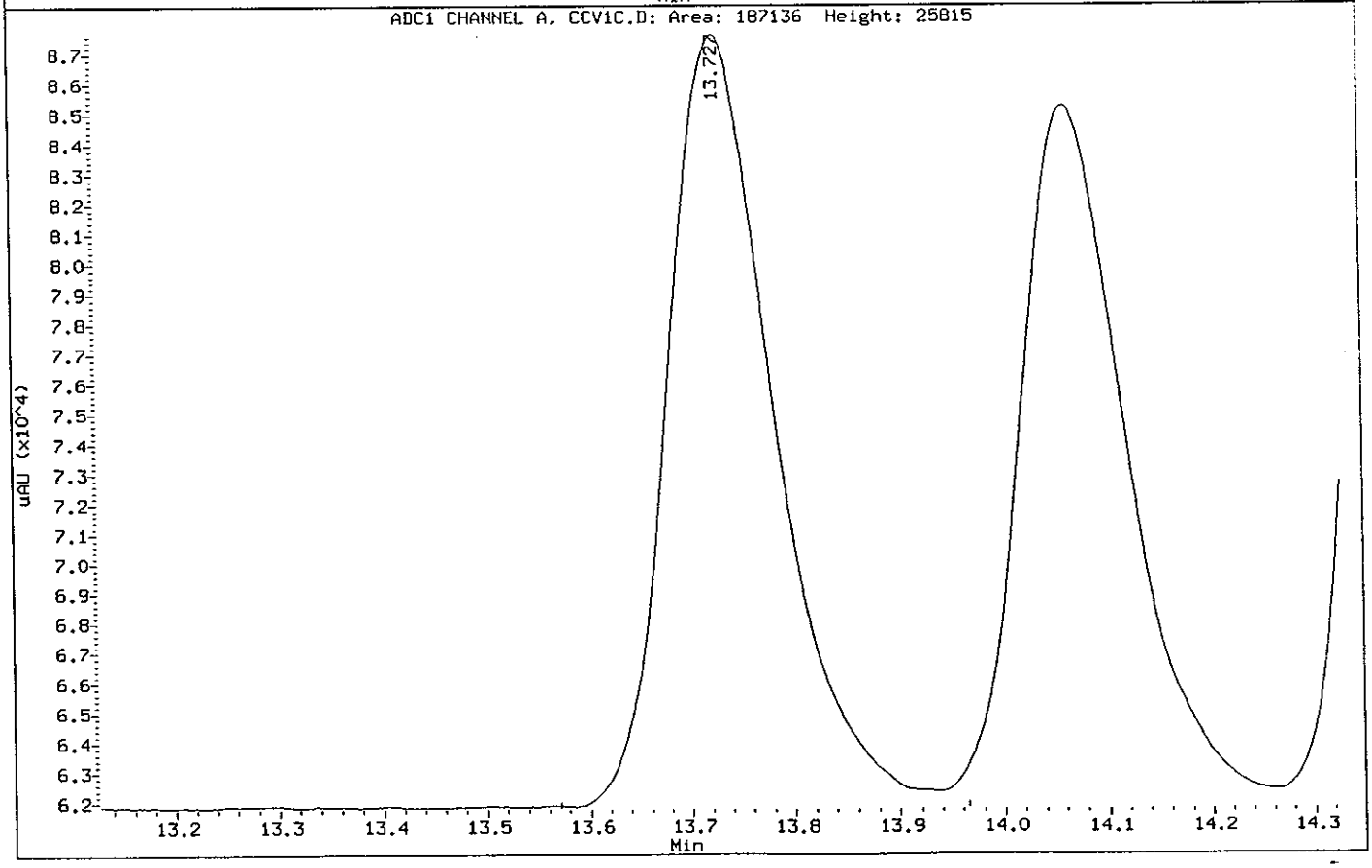
Injection Date: 25-OCT-2001 02:27
Instrument: slc02.i
Client Sample ID: 15std3206

Compound: 1-Methyl naphthalene
CAS Number: 90-12-0





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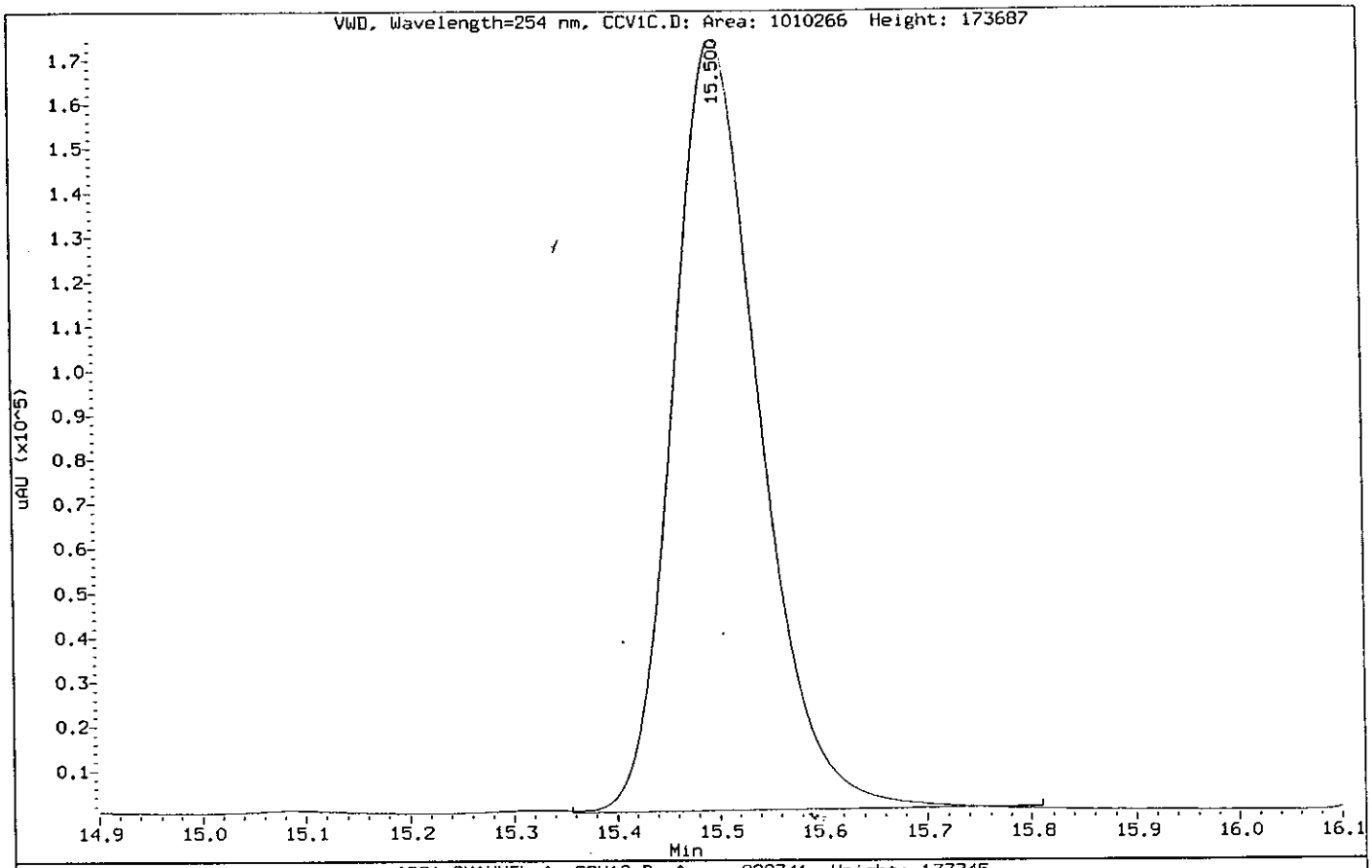
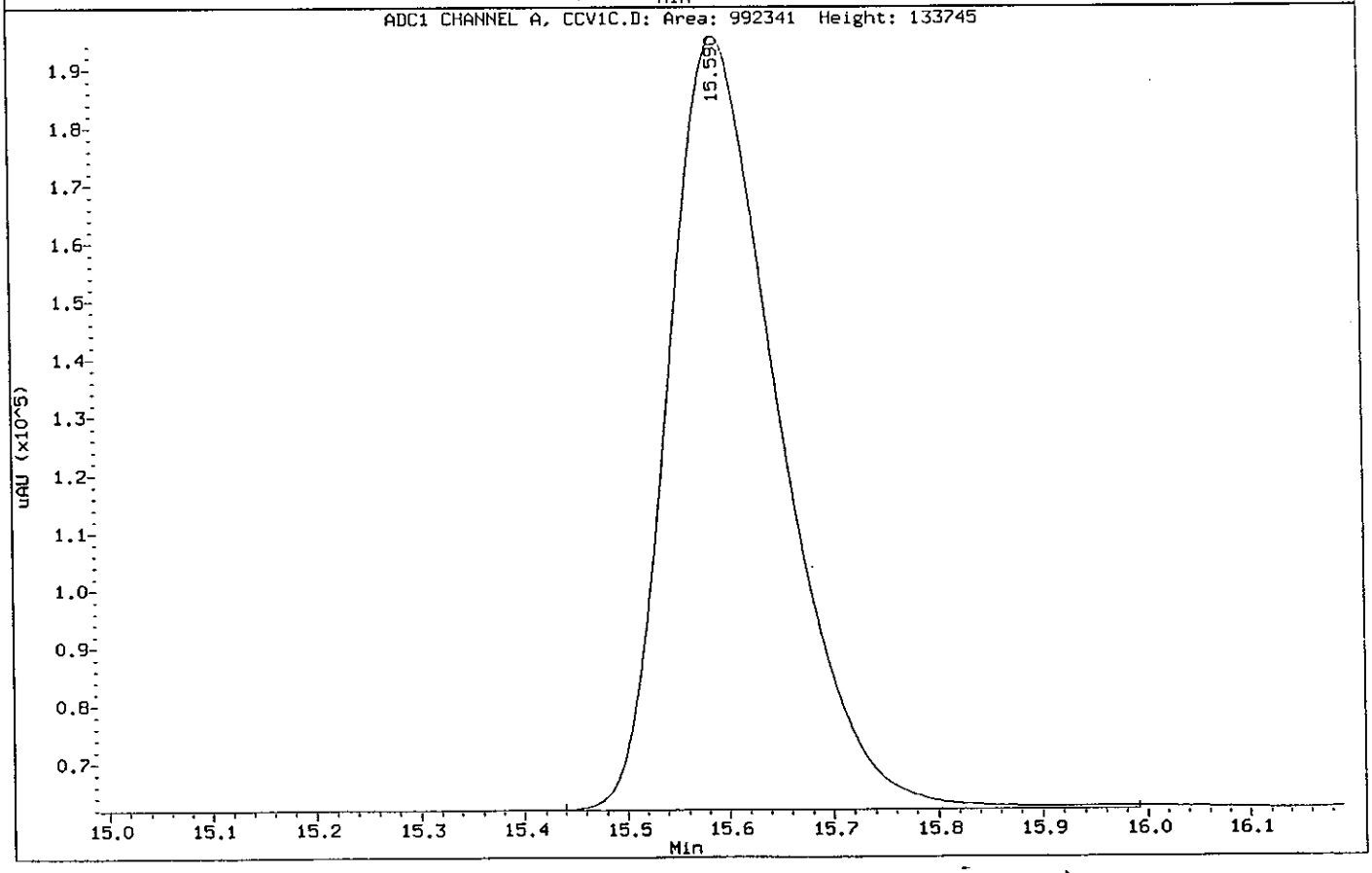
Injection Date: 25-OCT-2001 02:27
Instrument: slc02.i
Client Sample ID: 15std3206

Compound: Phenanthrene
CAS Number: 85-01-8





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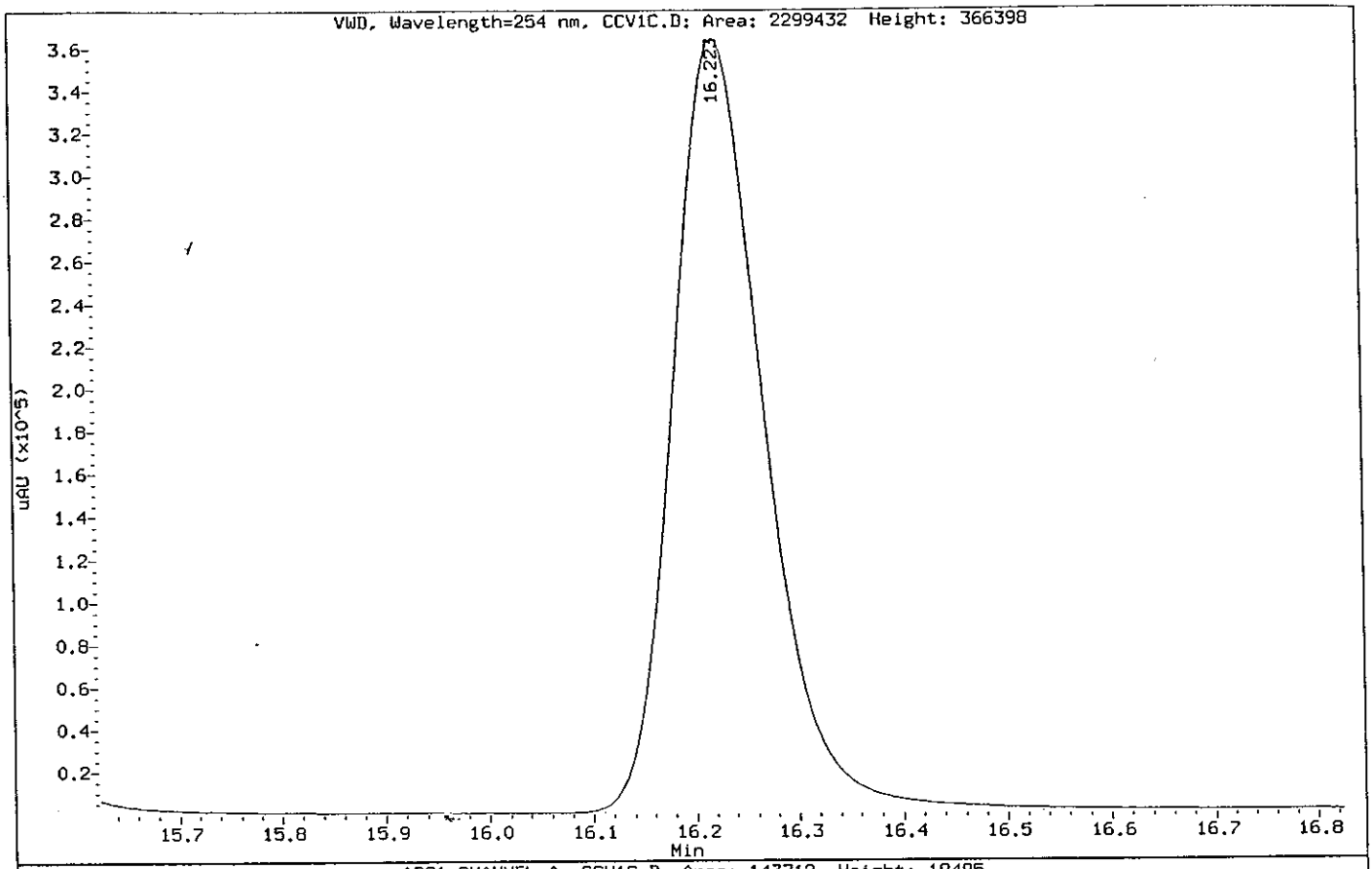
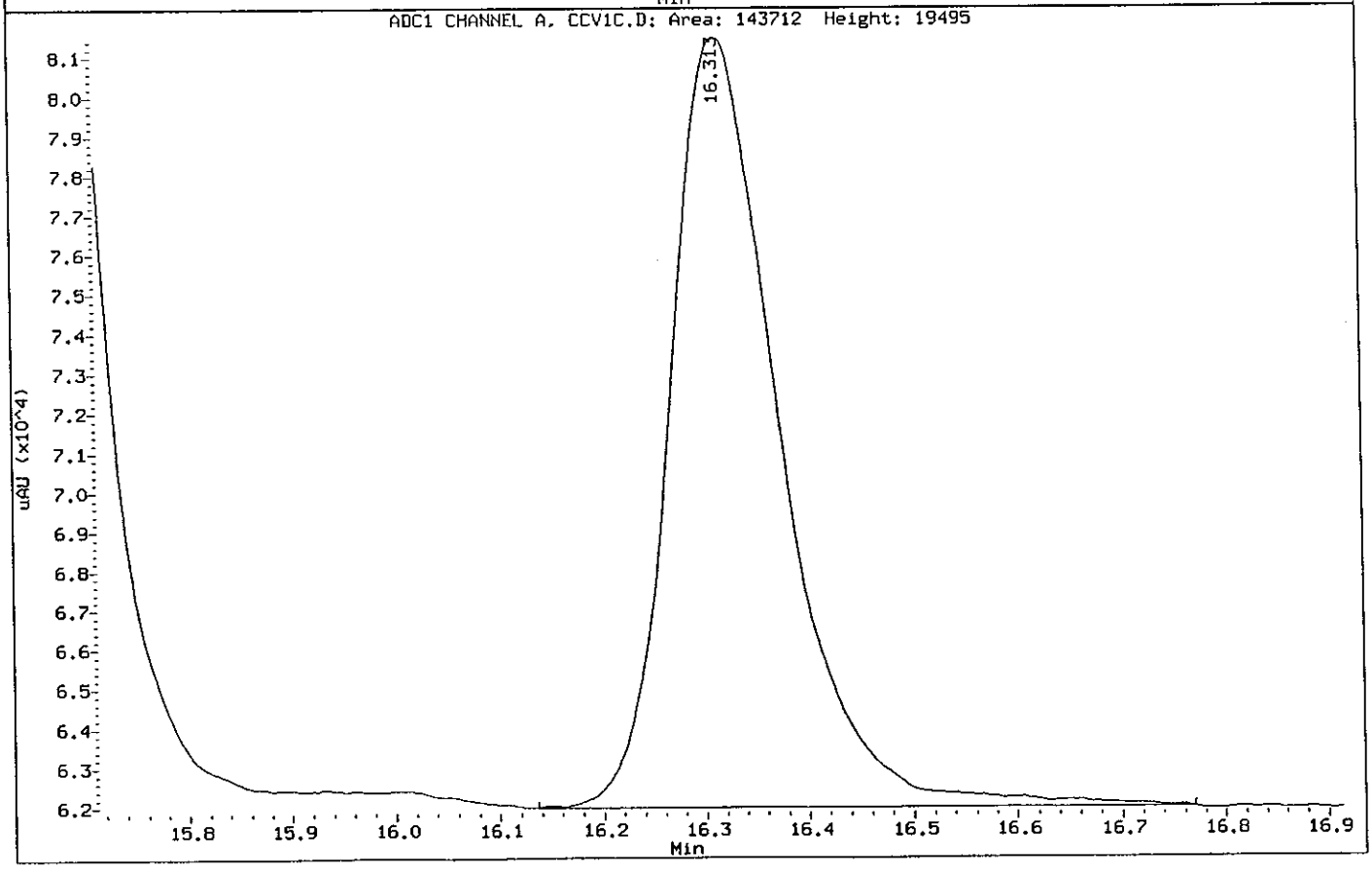
Injection Date: 25-OCT-2001 02:27
Instrument: slc02.i
Client Sample ID: 15std3206

Compound: Anthracene
CAS Number: 120-12-7





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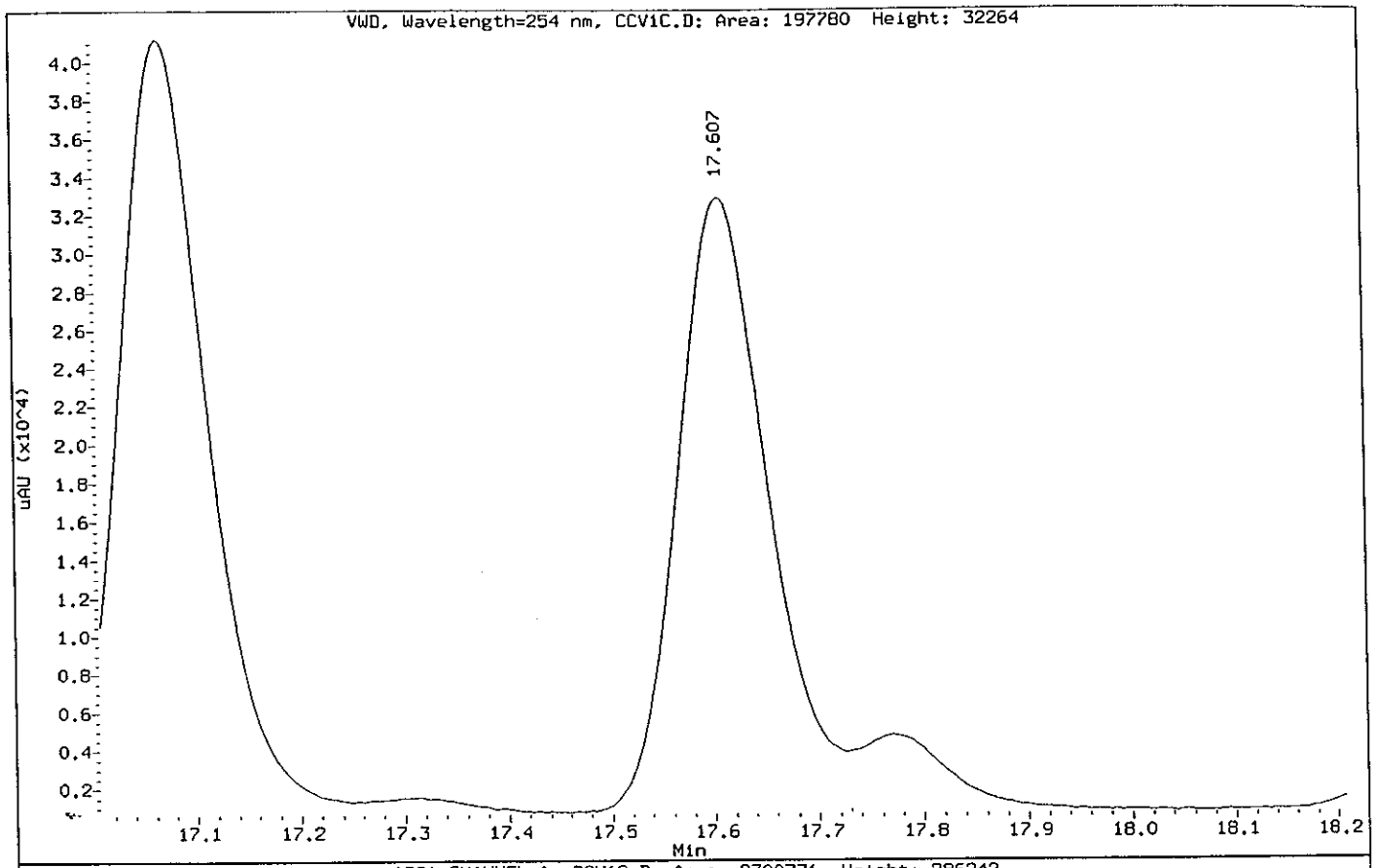
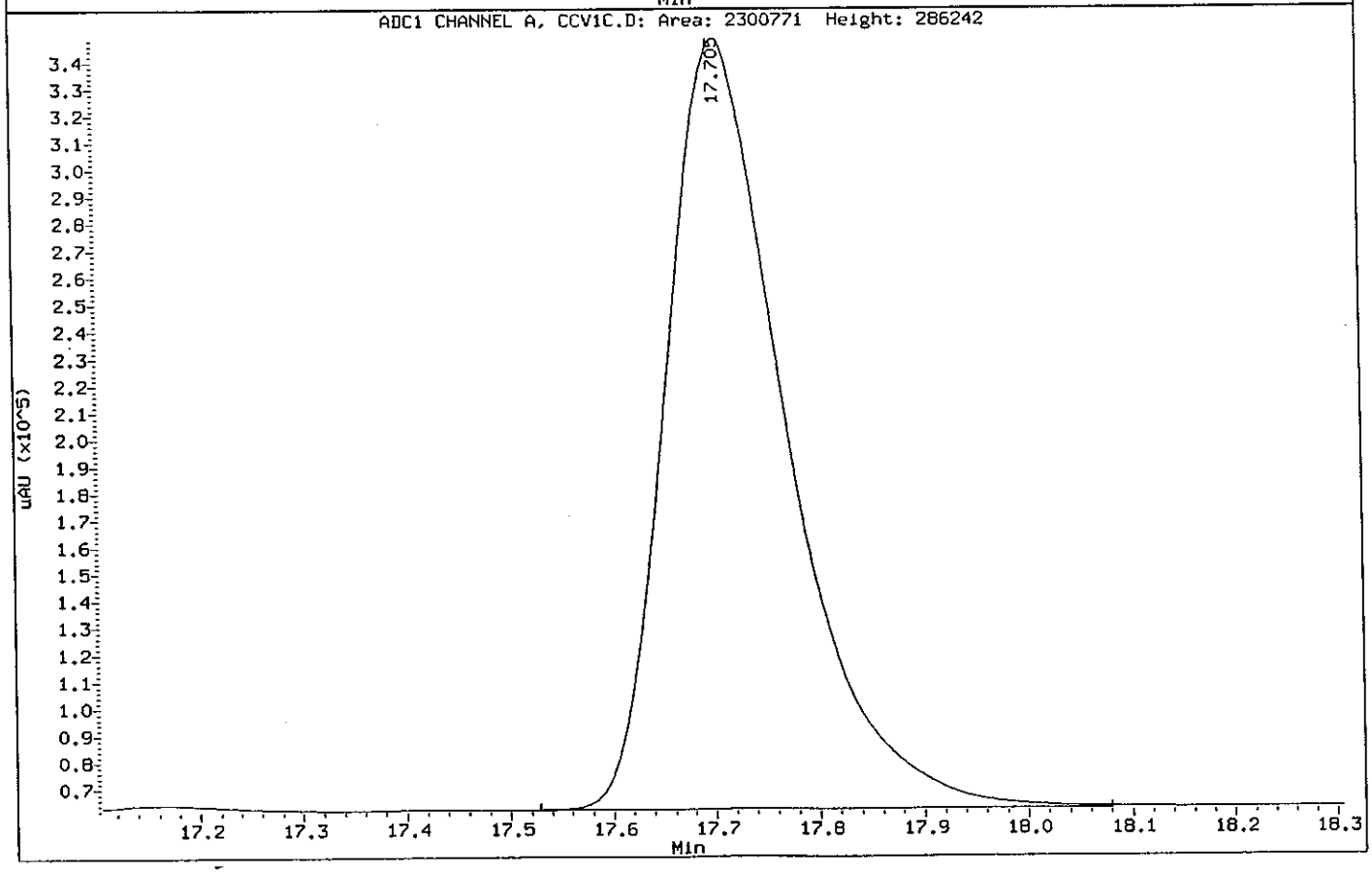
Injection Date: 25-OCT-2001 02:27
Instrument: slc02.i
Client Sample ID: 15std3206

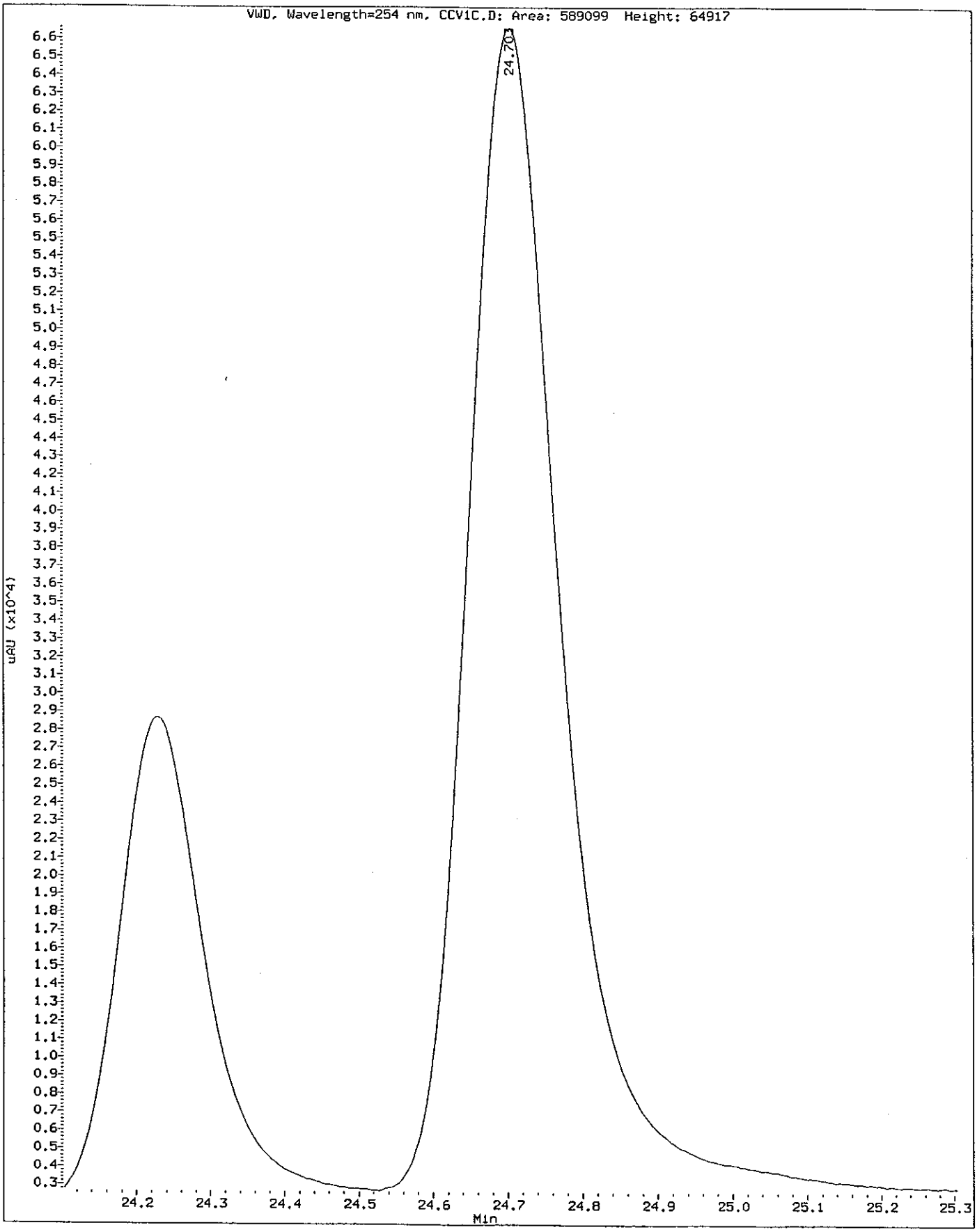
Compound: Pyrene
CAS Number: 129-00-0





Data File: \\SVHPLC\ee\chem\slc02.i\L21024C1.b\CCV1C.D
Injection Date: 25-OCT-2001 02:27
Instrument: slc02.i
Client Sample ID: 15std3206

Compound: Indeno(123cd)Pyrene
CAS Number: 193-39-5



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11	CCV1	83105	CCV3206C		11	94
~	15 ug/mL		15ST2852		21	CC
1	30 ug/mL		30ST2850		12	94
2	20 ug/mL		20ST2851	(CALIBRATION)	13	94
4	10 ug/mL		10ST2853		14	94
5	5 ug/mL		5ST2854		21	CC
6	pt2 ug/mL		0.2ST2856		1	ST
21	CCV1A		~~CC~~ END 10/29/01 15STD3206			
7	94-11		21100941 1			
8	94-12		9412			
9	94-13		9413			
10	94-14		9414			
11	94-15		9415			
12	94-16		9416			
13	94-17		9417			
	94-18		9418			
15	94-19		9419			
16	94-01		9401			
21	CCV2		15STD3206			
17	94-02		21100940 2			
18	94-03		9403			
19	94-04		9404			
20	94-05		9405			
1	94-06		9406			
2	1025ab		JMD 10/29/01 51553			
3	1025alcs		51554			
4	1025abms		51555			
5	1025abmd		51556			
~1	CCV3		15STD3206			
6	94-7		21100940 7			
7	94-8		9408			
8	94-9		9409			

CONTINUED

SEQ L21028R1.S (CONTINUED FROM PAGE 44)

	VIAL	DATA FILE	METHOD	SAMPLE NAME
	9	94-10	8310S	211009410
	10	94-16D50		9416 (50X DILUTION)
C	11	94-7D2		9407 (2X DILUTION)
52	21	CCV4		155TD3206
50	12	94-16D10		211009416 (10X DILUTION)
51 (CALIBRATION)	13	94-8D2		9408 (2X DILUTION)
53	14	94-9D2		9409 (2X DILUTION)
54	21	CCV5		155TD3206
6	1	SHUT	SHUT	SHUT

STD3206

10/29/01

JMD

26

253

6

PEL Laboratories

Data file : \\SVHPLC\ee\chem\slc02.i\recal1028s\15UGML.D
Lab Smp Id: 30st2850 Client Smp ID: 30st2850
Inj Date : 28-OCT-2001 14:05
Operator : rood Inst ID: slc02.i
Smp Info : 30st2850
Misc Info :
Comment :
Method : \\SVHPLC\ee\chem\slc02.i\recal1028s\8310S.m
Meth Date : 02-Nov-2001 08:37 jdonnelly Quant Type: ISTD
Cal Date : 28-OCT-2001 14:05 Cal File: 15UGML.D
Als bottle: 3 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.04 Sample Matrix: SOIL
Processing Host: SVHPLC

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

					AMOUNTS CAL-AMT	ON-COL		
RT	EXP RT	REL RT	SIGNAL	RESPONSE	(ug/ml)	(ug/ml)	TARGET RANGE	RATIO
* 1 Carbazole (ISTD)						CAS #: 86-74-8		
11.396	10.610	(1.000)	VWD1A	238799			80.00- 120.00	100.00(M)
11.483	10.610	(1.008)	ADC1A	1949151	10.0000		652.03- 978.05	816.23
2 Naphthalene						CAS #: 91-20-3		
12.393	11.770	(1.087)	VWD1A	85727	15.0000	15.5	80.00- 120.00	100.00(M)
12.483	11.770	(1.095)	ADC1A	92918	15.0000	15.5	82.40- 123.60	108.39
3 Acenaphthylene						CAS #: 208-96-8		
13.540	13.013	(1.188)	VWD1A	60447	15.0000	14.9		
4 1-Methyl naphthalene						CAS #: 90-12-0		
14.123	13.633	(1.239)	VWD1A	49033	15.0000	14.7	80.00- 120.00	100.00
14.209	13.633	(1.247)	ADC1A	192223	15.0000	15.6	0.39- 0.59	392.02

					AMOUNTS CAL-AMT	ON-COL		
RT	EXP RT	REL RT	SIGNAL	RESPONSE	(ug/ml)	(ug/ml)	TARGET RANGE	RATIO
5 2-Methyl naphthalene						CAS #: 91-57-6		
14.436	13.973	(1.267)	VWD1A	68414	15.0000	14.5	80.00- 120.00	100.00
14.524	13.973	(1.274)	ADC1A	167211	15.0000	16.0	191.55- 287.32	244.41
6 Acenaphthene						CAS #: 83-32-9		
14.753	14.310	(1.295)	VWD1A	31201	15.0000	14.6	80.00- 120.00	100.00
14.841	14.310	(1.302)	ADC1A	389472	15.0000	15.9	964.12-1446.17	1248.26
7 Fluorene						CAS #: 86-73-7		
15.096	14.680	(1.325)	VWD1A	371360	15.0000	15.0	80.00- 120.00	100.00
15.191	14.680	(1.333)	ADC1A	44682	15.0000	14.9	9.06- 13.59	12.03
8 Phenanthrene						CAS #: 85-01-8		
15.873	15.500	(1.393)	VWD1A	1040360	15.0000	15.1	80.00- 120.00	100.00
15.964	15.500	(1.401)	ADC1A	1049342	15.0000	16.1	78.58- 117.87	100.86
9 Anthracene						CAS #: 120-12-7		
16.563	16.223	(1.453)	VWD1A	2247547			80.00- 120.00	100.00
16.653	16.223	(1.461)	ADC1A	146113	15.0000	14.7	5.00- 7.50	6.50
10 Fluoranthene						CAS #: 206-44-0		
17.373	17.066	(1.524)	VWD1A	248696	15.0000	15.1	80.00- 120.00	100.00
17.471	17.066	(1.533)	ADC1A	20238			6.36- 9.54	8.14
11 Pyrene						CAS #: 129-00-0		
17.893	17.606	(1.570)	VWD1A	194884	15.0000	15.4	80.00- 120.00	100.00(M)
17.993	17.606	(1.579)	ADC1A	2631276	15.0000	16.0	935.91-1403.86	1350.18
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.816	18.593	(1.651)	VWD1A	226406	15.0000	15.5	80.00- 120.00	100.00
18.909	18.593	(1.659)	ADC1A	6259985	15.0000	15.6	2246.35-3369.53	2764.93
13 Benzo(a)Anthracene						CAS #: 56-55-3		
19.633	19.426	(1.723)	VWD1A	583554	15.0000	15.1	80.00- 120.00	100.00
19.728	19.426	(1.731)	ADC1A	6664721	15.0000	16.1	881.58-1322.37	1142.09
14 Chrysene						CAS #: 218-01-9		
20.013	19.820	(1.756)	VWD1A	803565	15.0000	14.6	80.00- 120.00	100.00(M)
20.109	19.820	(1.765)	ADC1A	2032009	15.0000	15.7	190.14- 285.21	252.87
15 Benzo(b)Fluoranthene						CAS #: 205-99-2		
21.400	21.253	(1.878)	VWD1A	646369	15.0000	15.6	80.00- 120.00	100.00
21.494	21.253	(1.886)	ADC1A	172132	15.0000	16.1	20.85- 31.28	26.63
16 Benzo(k)Fluoranthene						CAS #: 207-08-9		
22.010	21.883	(1.931)	VWD1A	492365	15.0000	15.6	80.00- 120.00	100.00

				AMOUNTS				
					CAL-AMT	ON-COL		
RT	EXP RT	REL RT	SIGNAL	RESPONSE	(ug/ml)	(ug/ml)	TARGET RANGE	RATIO
16 Benzo(k)Fluoranthene (continued)								
22.106	21.883	(1.940)	ADC1A	325770	15.0000	15.7	52.76- 79.15	66.16
17 Benzo(a)pyrene						CAS #: 50-32-8		
22.596	22.476	(1.983)	VWD1A	570233	15.0000	15.8	80.00- 120.00	100.00
22.694	22.476	(1.991)	ADC1A	965985	15.0000	15.9	138.13- 207.19	169.40
18 Dibenz(ah)Anthracene						CAS #: 53-70-3		
23.576	23.493	(2.069)	VWD1A	129661	15.0000	15.4	80.00- 120.00	100.00(M)
23.676	23.493	(2.077)	ADC1A	1589348	15.0000	15.8	949.04-1423.56	1225.77
19 Benzo(ghi)Perylene						CAS #: 191-24-2		
24.303	24.226	(2.132)	VWD1A	221602	15.0000	16.1	80.00- 120.00	100.00
24.404	24.226	(2.141)	ADC1A	467046	15.0000	16.6	155.32- 232.98	210.76
20 Indeno(123cd)Pyrene						CAS #: 193-39-5		
24.766	24.703	(2.173)	VWD1A	557046	15.0000	15.4	80.00- 120.00	100.00(M)
25.063	24.703	(2.199)	ADC1A	98337			0.00- 0.00	17.65

QC Flag Legend

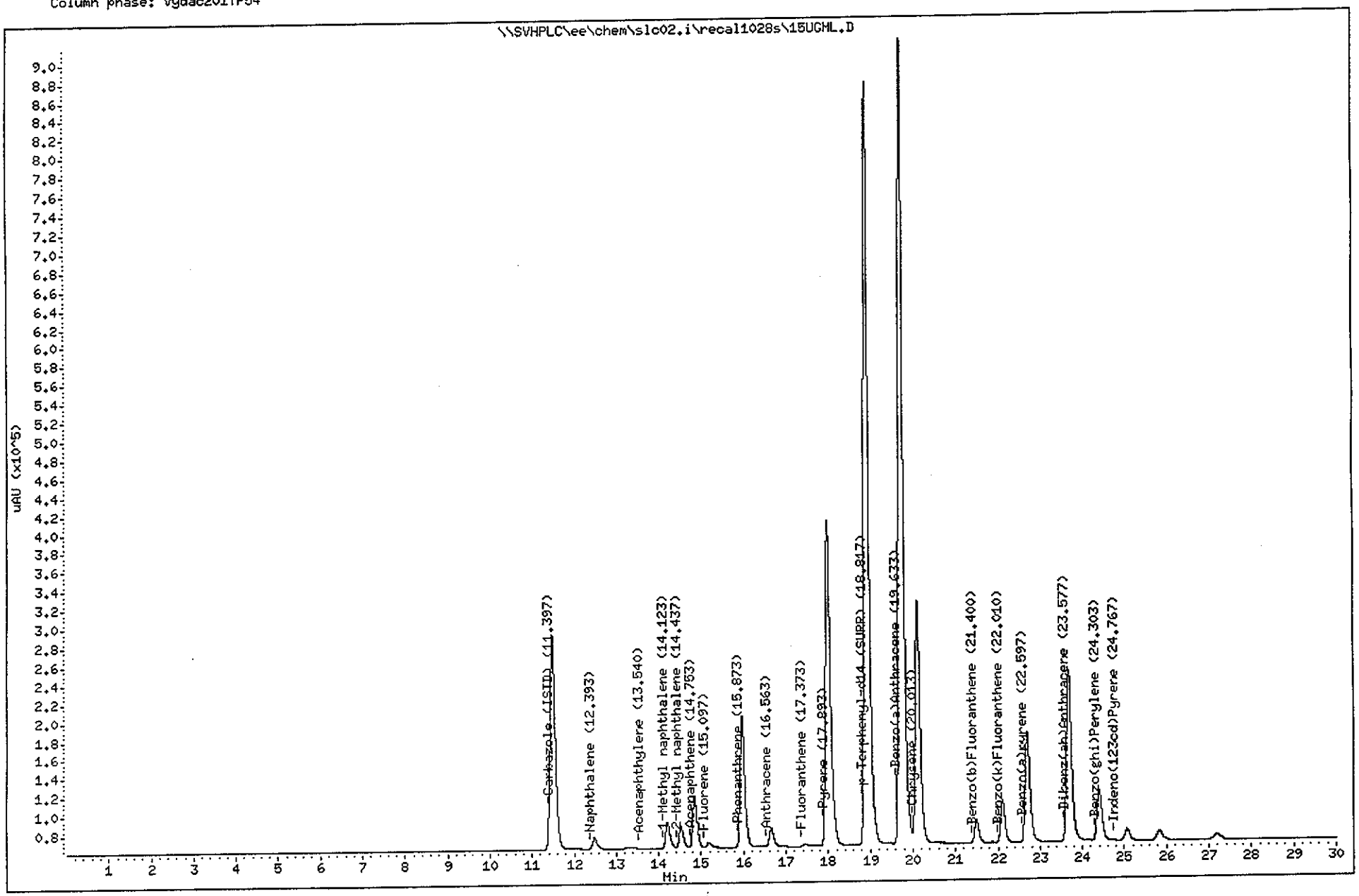
M - Compound response manually integrated.

Data File: \\SVHPLC\ee\chem\slc02.i\recal1028s\15UGML.D
Date : 28-OCT-2001 14:05
Client ID: 30st2850
Sample Info: 30st2850

Instrument: slc02.i

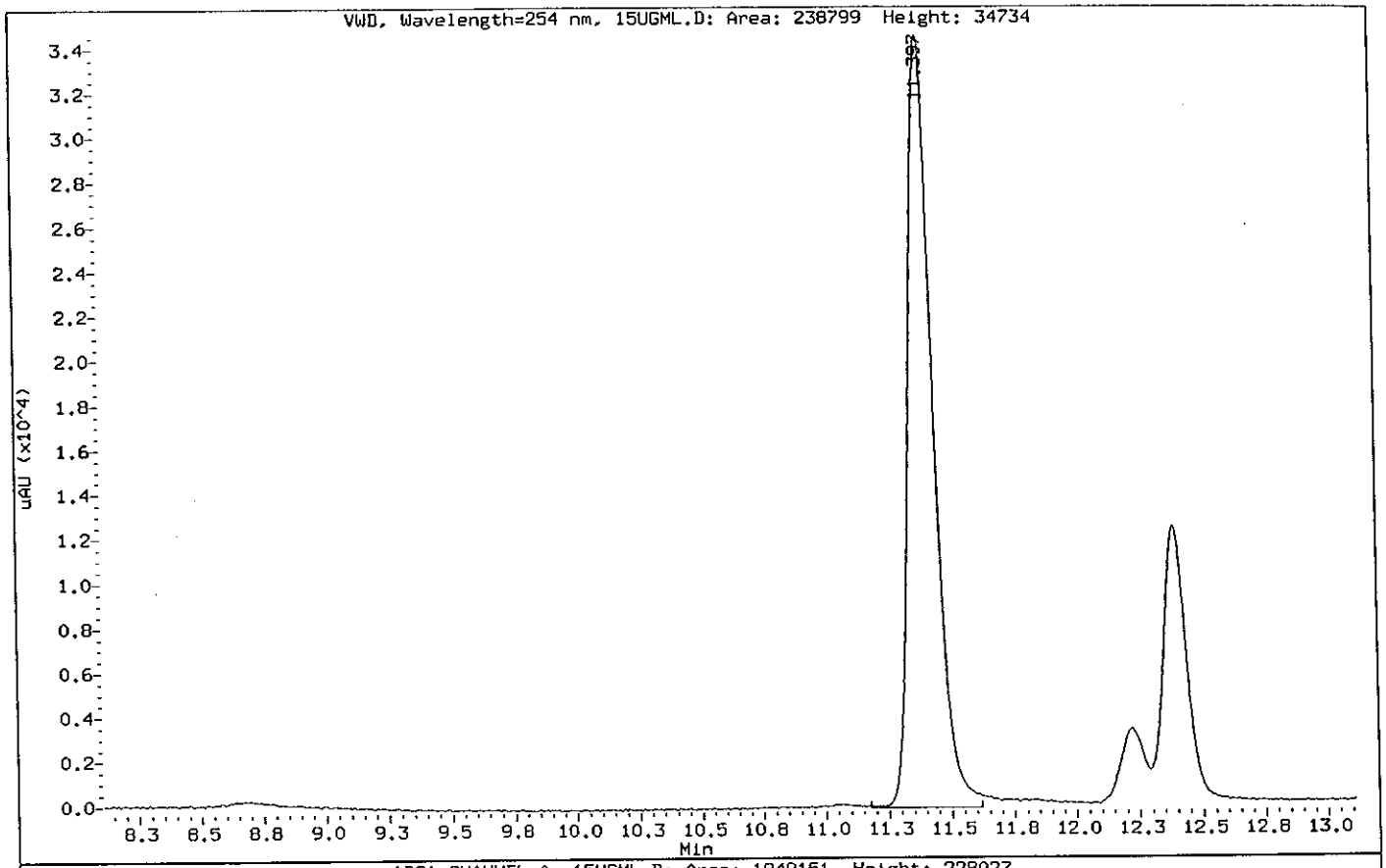
Operator: rood
Column diameter: 4.60

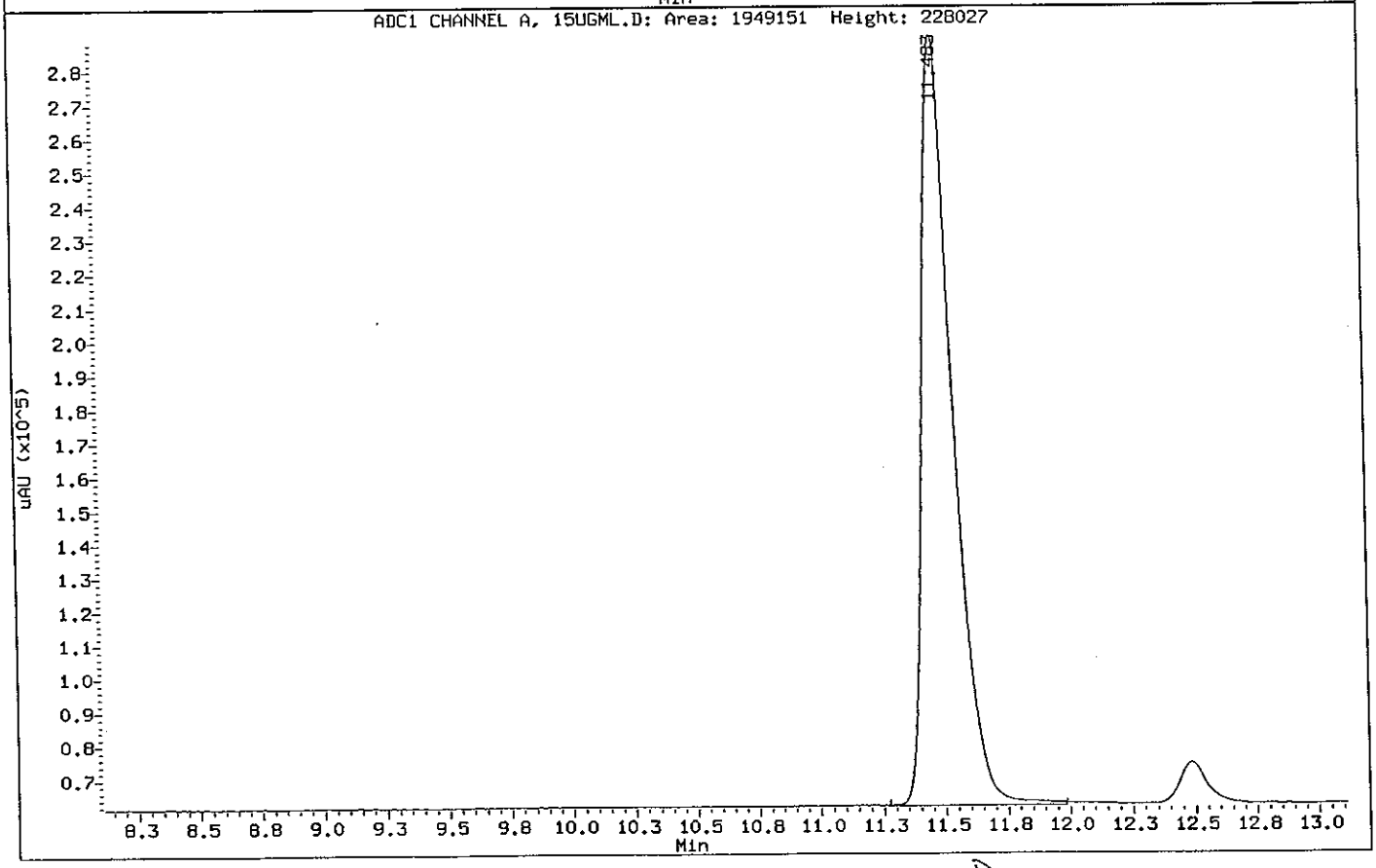
Column phase: Vydac201TP54



Data File: \\SVHPLC\ee\chem\slc02.i\recal1028s\15UGML.D
Injection Date: 28-OCT-2001 14:05
Instrument: slc02.i
Client Sample ID: 30st2850

Compound: Carbazole (ISTD)
CAS Number: 86-74-8

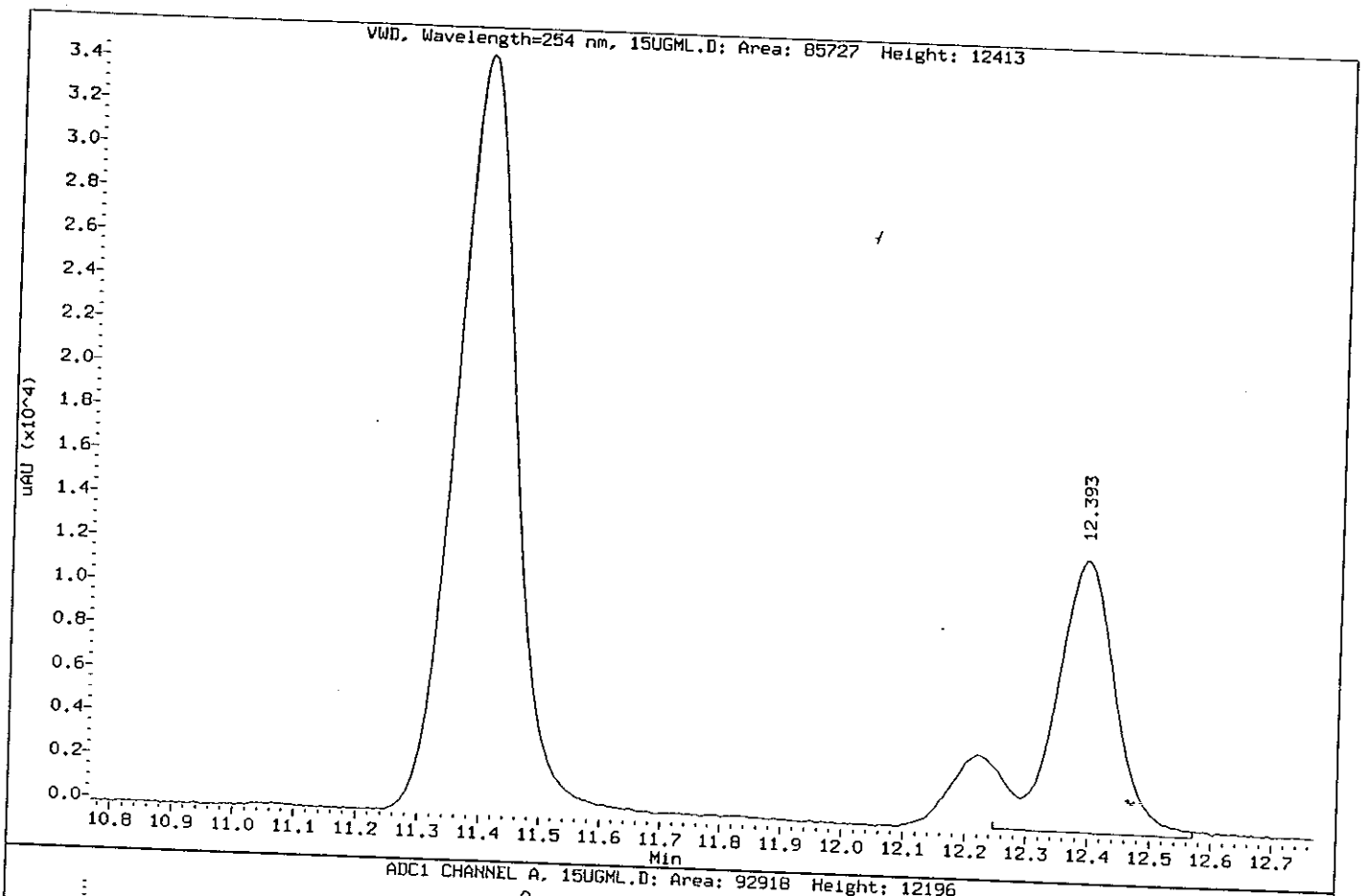


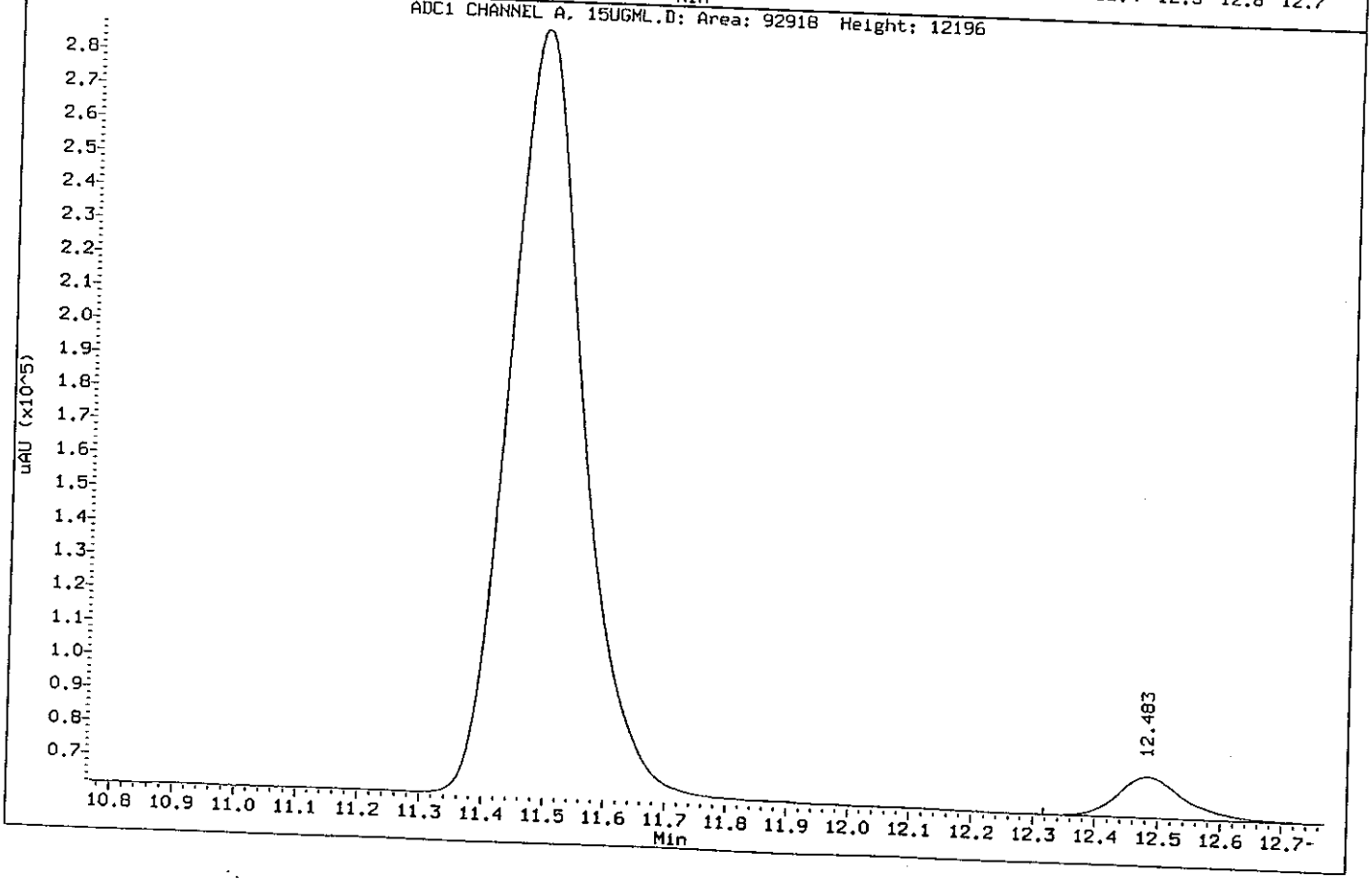


JMD

Data File: \\SVHPLC\ee\chem\slc02.i\recal1028s\15UGML.D
Injection Date: 28-OCT-2001 14:05
Instrument: slc02.i
Client Sample ID: 30st2850

Compound: Naphthalene
CAS Number: 91-20-3





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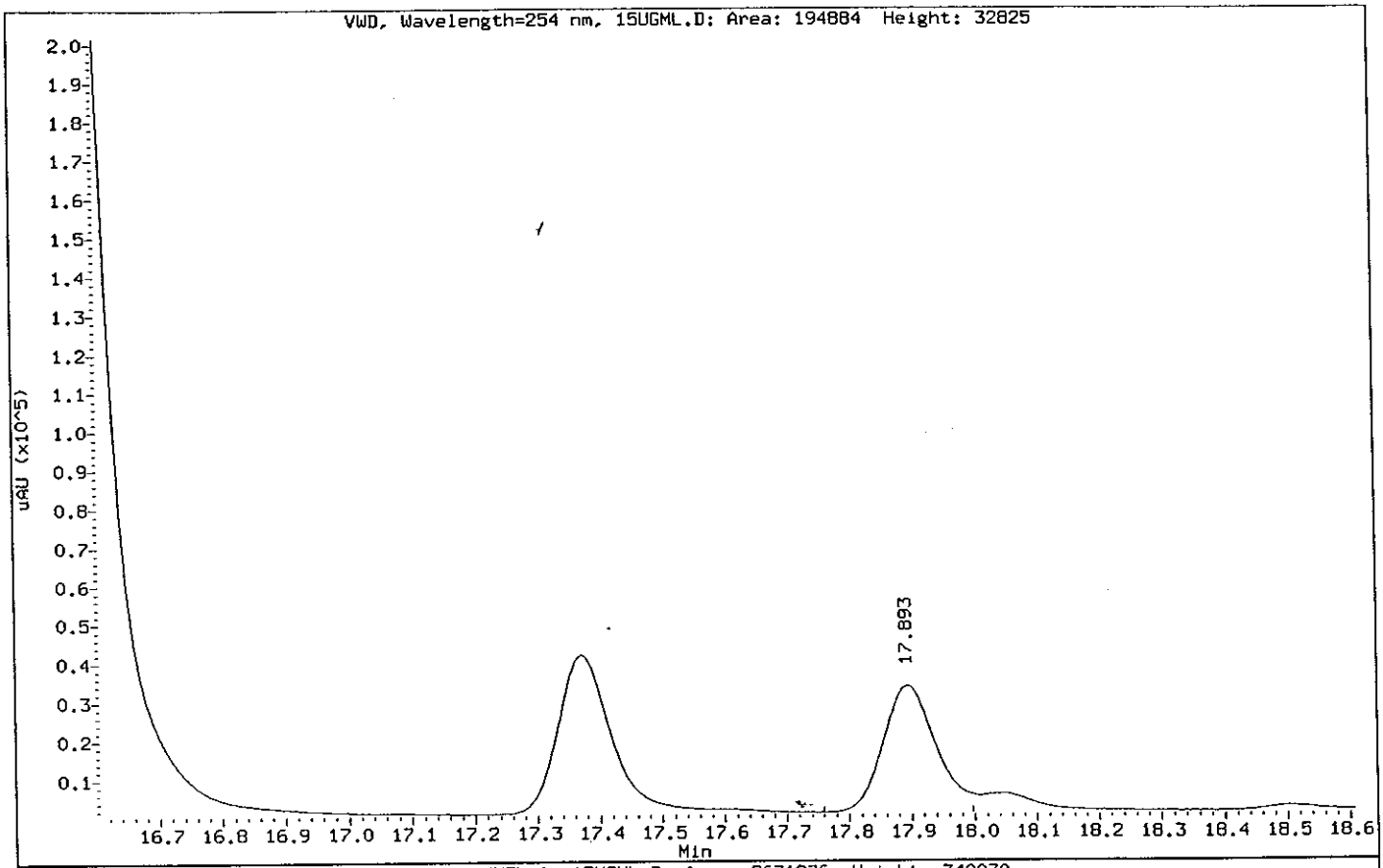
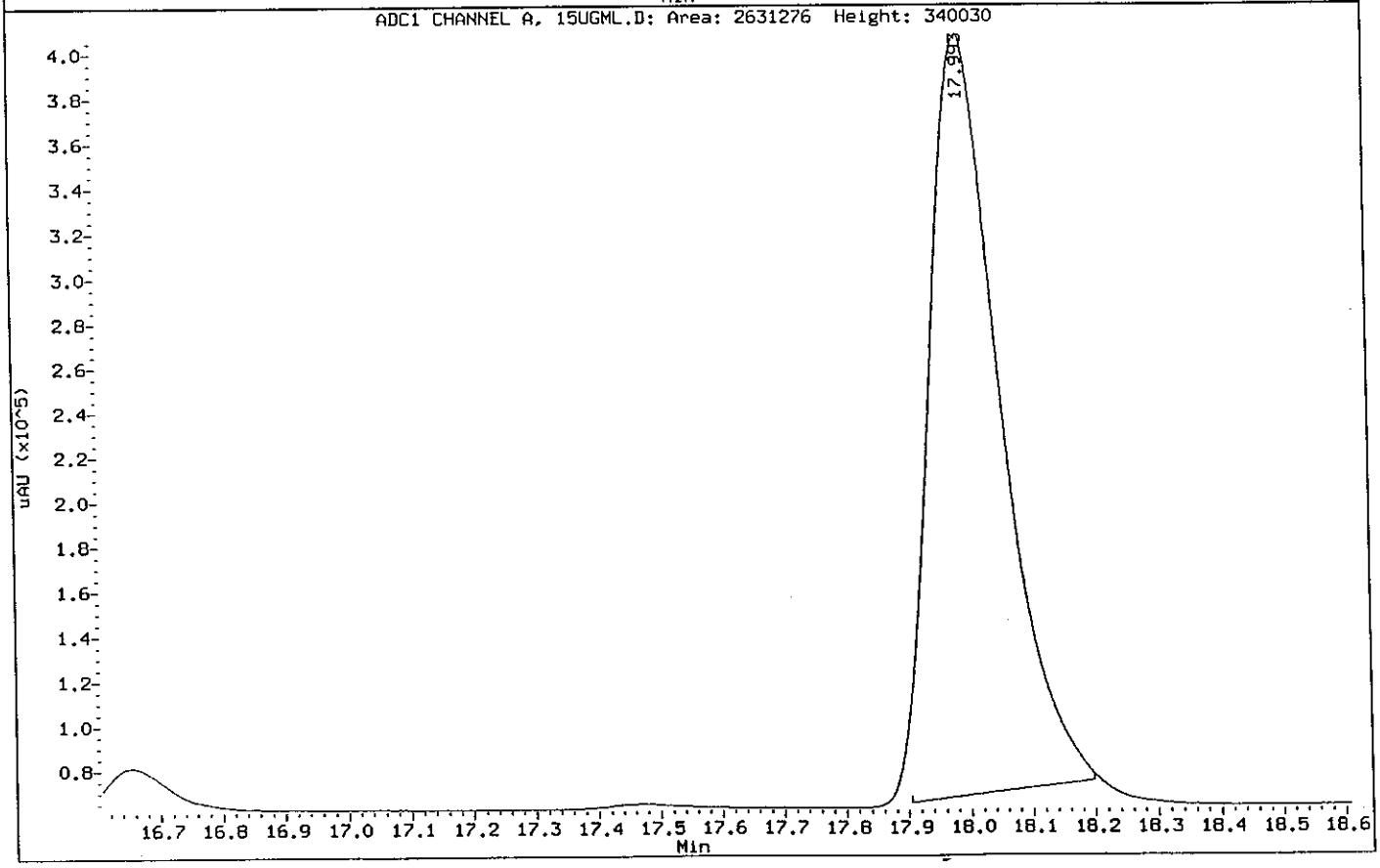
Injection Date: 28-OCT-2001 14:05
Instrument: slc02.i
Client Sample ID: 30st2850

Compound: Pyrene
CAS Number: 129-00-0





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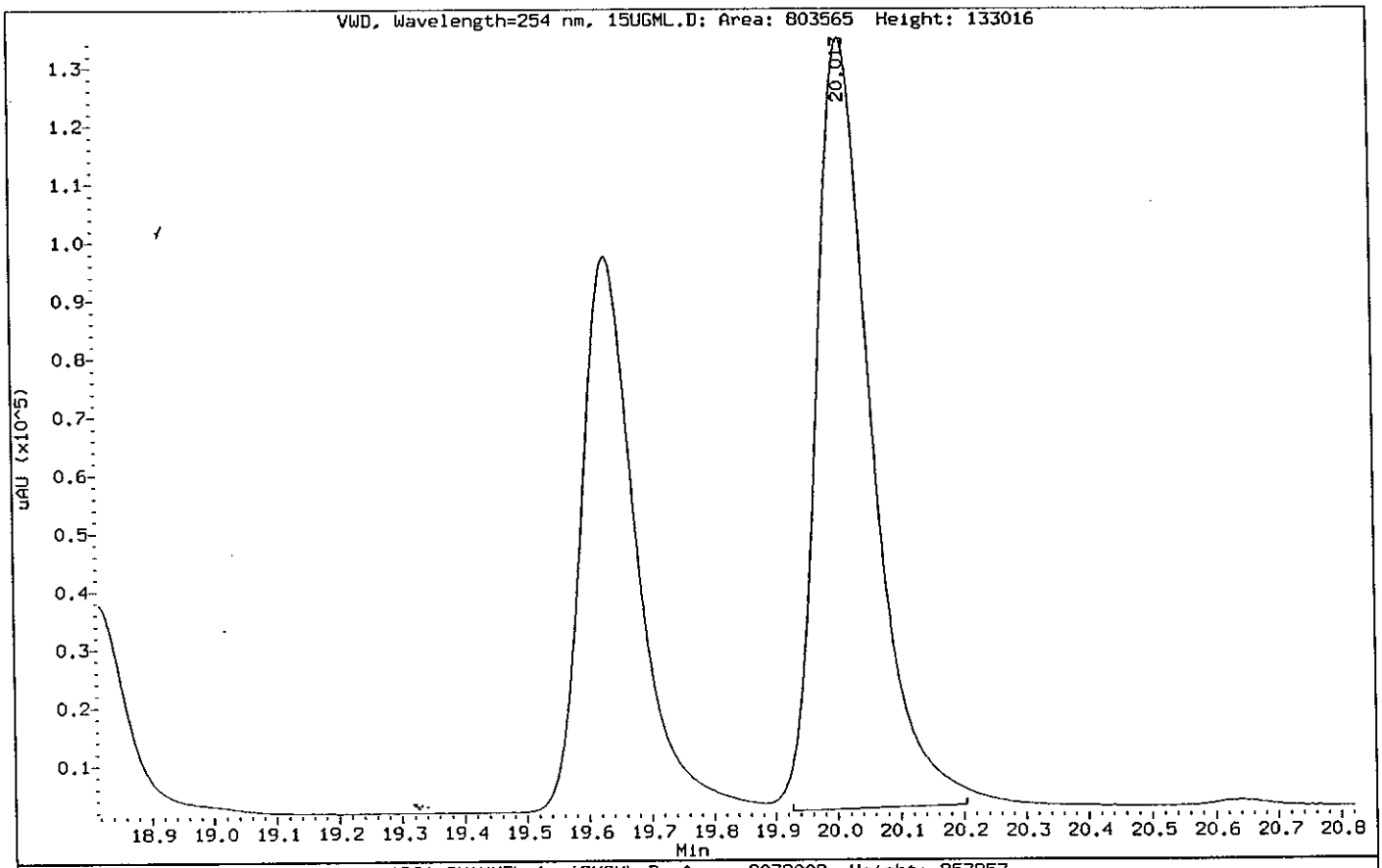
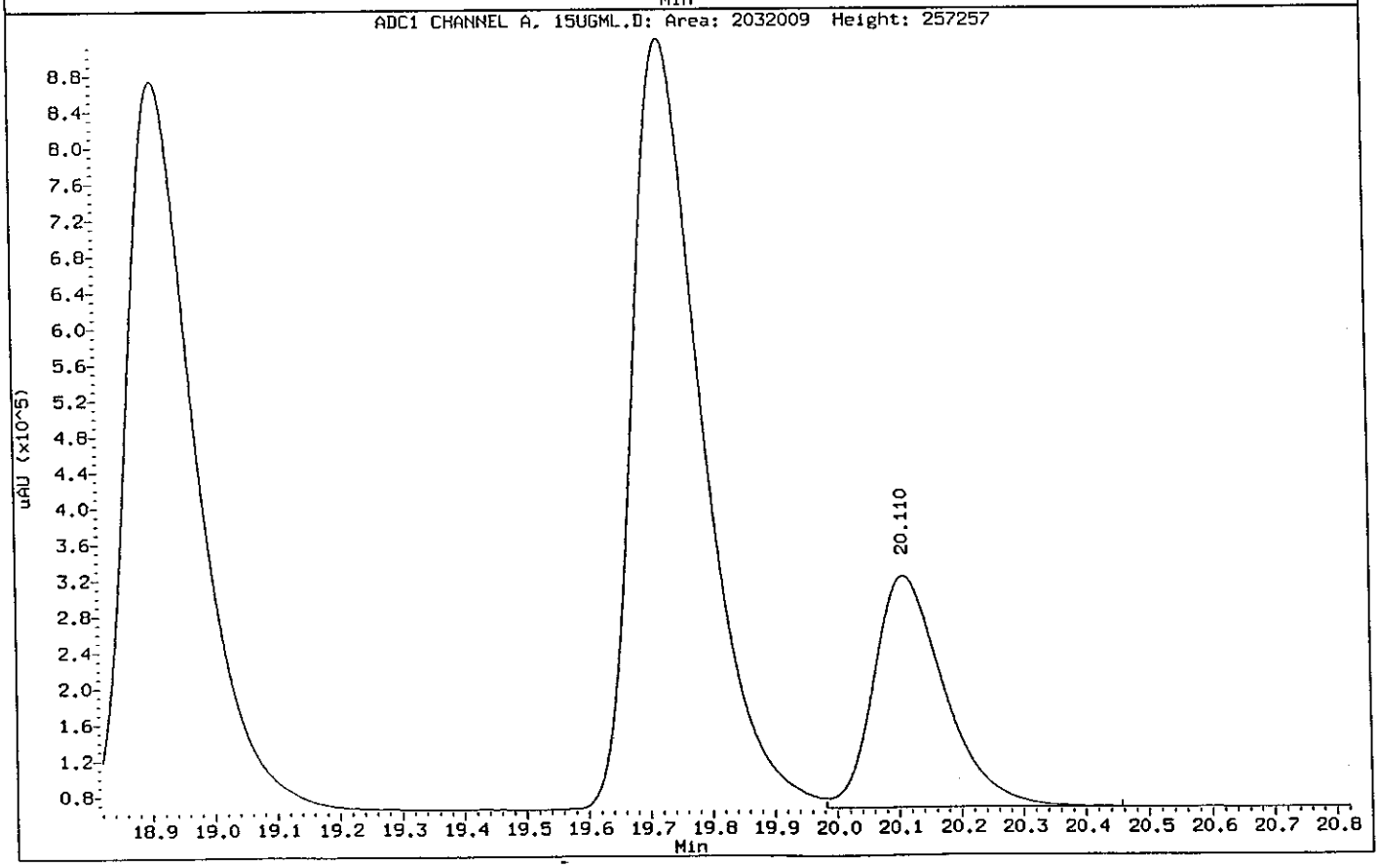
Injection Date: 28-OCT-2001 14:05
Instrument: slc02.i
Client Sample ID: 30st2850

Compound: Chrysene
CAS Number: 218-01-9





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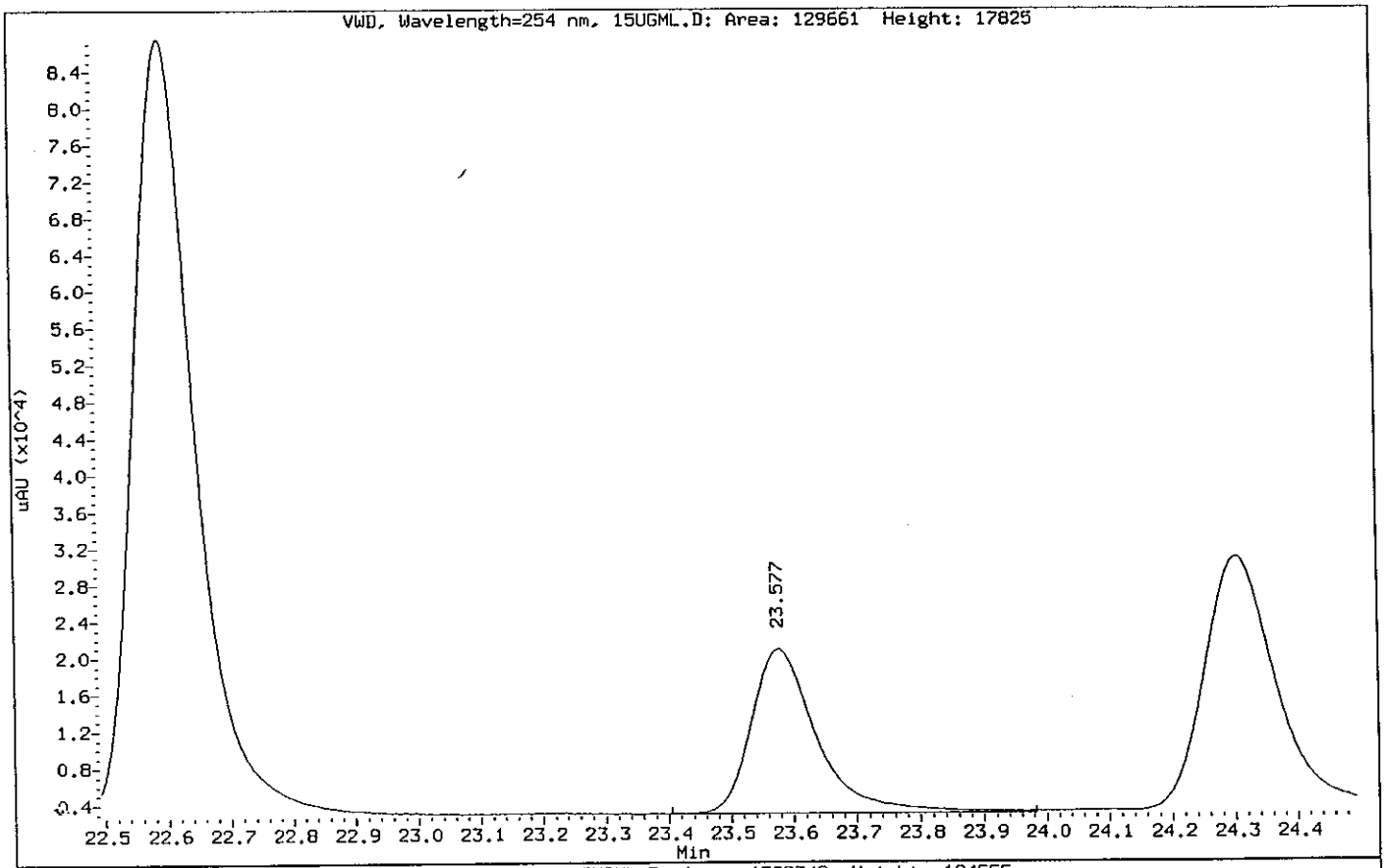
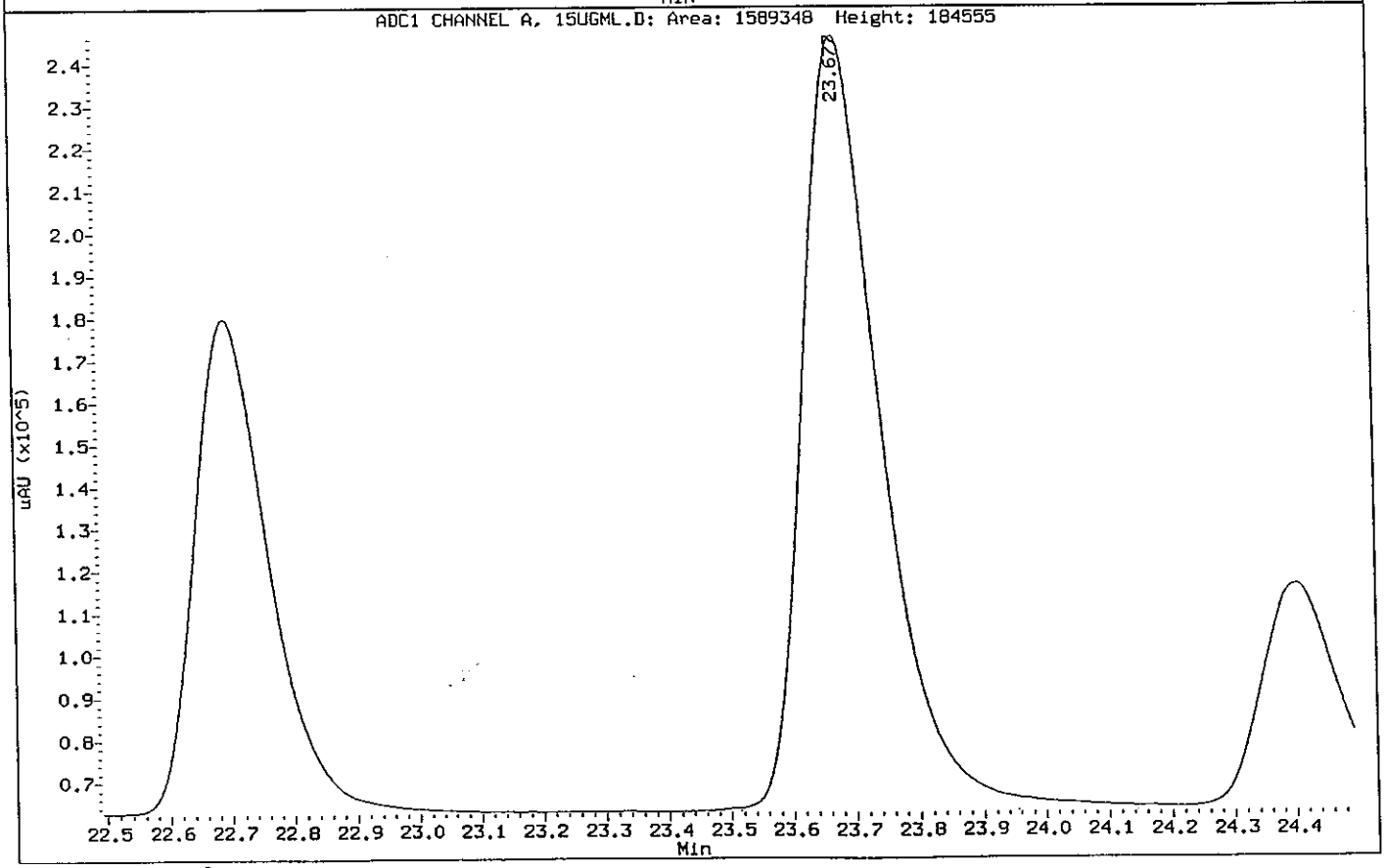
Data File: \\SVHPLC\ee\chem\slc02.i\recal1028s\15UGML.D
Injection Date: 28-OCT-2001 14:05
Instrument: slc02.i
Client Sample ID: 30st2850

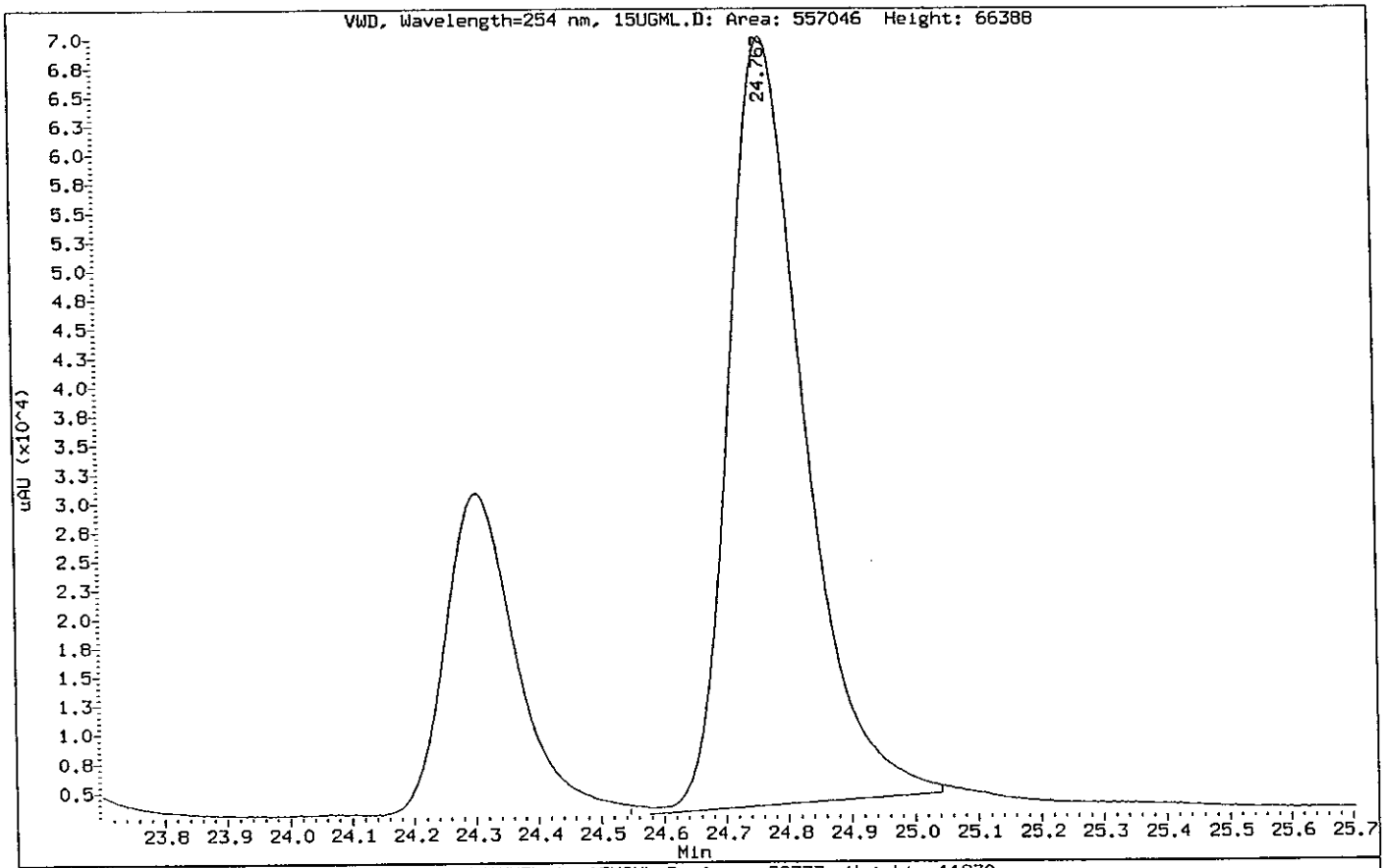
Compound: Dibenz(ah)Anthracene
CAS Number: 53-70-3

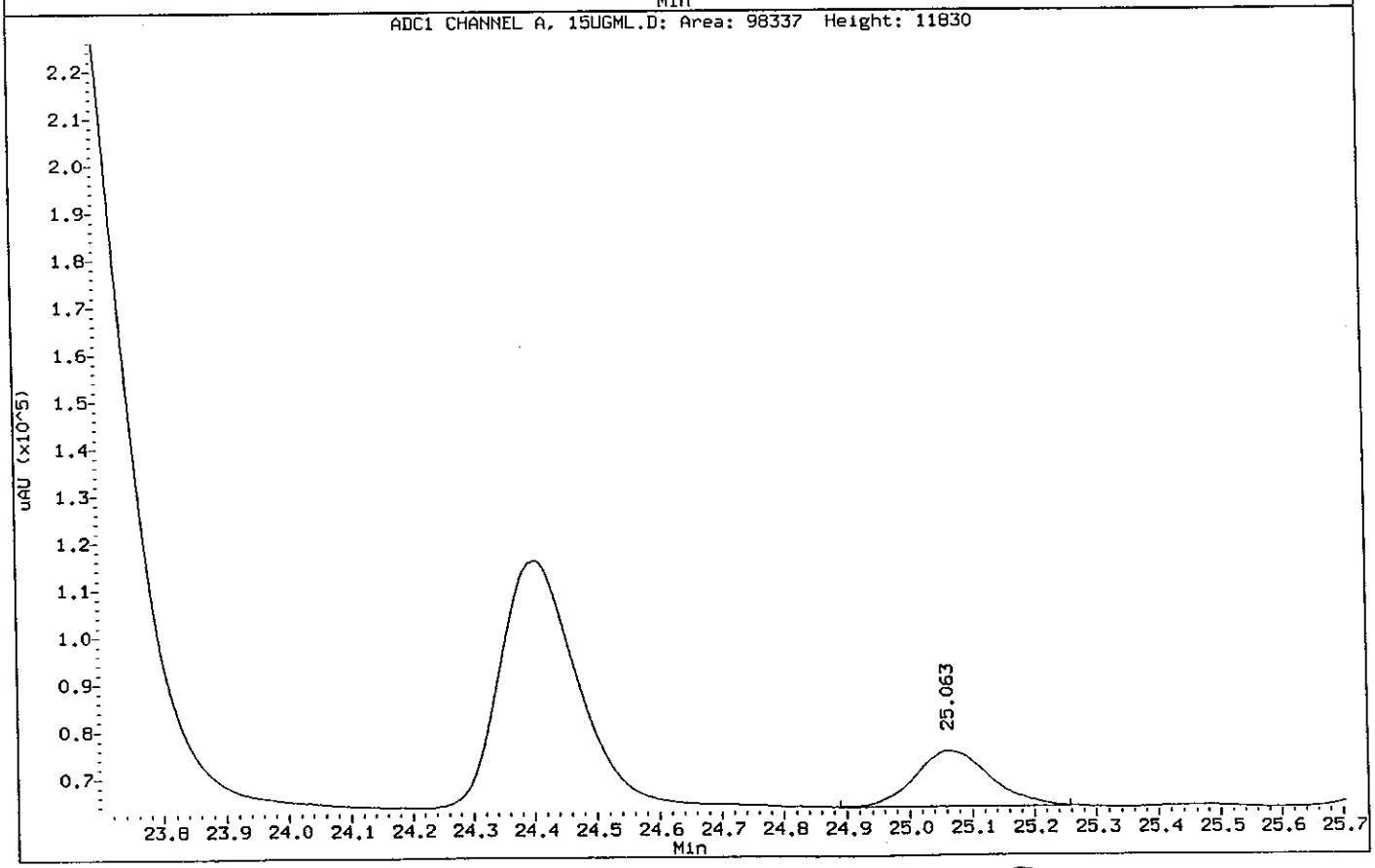




Data File: \\SVHPLC\ee\chem\slc02.i\recal1028s\15UGML.D
Injection Date: 28-OCT-2001 14:05
Instrument: slc02.i
Client Sample ID: 30st2850

Compound: Indeno(123cd)Pyrene
CAS Number: 193-39-5





PEL Laboratories

Data file : \\SVHPLC\ee\chem\slc02.i\recal1028s\30UGML.D
Lab Smp Id: 30st2850 Client Smp ID: 30st2850
Inj Date : 28-OCT-2001 17:48
Operator : rood Inst ID: slc02.i
Smp Info : 30st2850
Misc Info :
Comment :
Method : \\SVHPLC\ee\chem\slc02.i\recal1028s\8310S.m
Meth Date : 02-Nov-2001 08:37 jdonnelly Quant Type: ISTD
Cal Date : 28-OCT-2001 17:48 Cal File: 30UGML.D
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.04 Sample Matrix: SOIL
Processing Host: SVHPLC

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

					AMOUNTS CAL-AMT	ON-COL		
RT	EXP RT	REL RT	SIGNAL	RESPONSE	(ug/ml)	(ug/ml)	TARGET RANGE	RATIO
* 1 Carbazole (ISTD)						CAS #: 86-74-8		
11.436	10.610	(1.000)	VWD1A	240211			80.00- 120.00	100.00(M)
11.527	10.610	(1.008)	ADC1A	1934946	10.0000		652.03- 978.05	805.52
2 Naphthalene						CAS #: 91-20-3		
12.423	11.770	(1.086)	VWD1A	164813	30.0000	29.7	80.00- 120.00	100.00(M)
12.512	11.770	(1.094)	ADC1A	188948	30.0000	30.4	82.40- 123.60	114.64
3 Acenaphthylene						CAS #: 208-96-8		
13.563	13.013	(1.186)	VWD1A	118917	30.0000	29.9		(M)
4 1-Methyl naphthalene						CAS #: 90-12-0		
14.140	13.633	(1.236)	VWD1A	99997	30.0000	30.4	80.00- 120.00	100.00(M)
14.229	13.633	(1.244)	ADC1A	382049	30.0000	30.0	0.39- 0.59	382.06

					AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
RT	EXP RT	REL RT	SIGNAL	RESPONSE				
5 2-Methyl naphthalene						CAS #: 91-57-6		
14.453	13.973	(1.264)	VWD1A	136339	30.0000	30.0	80.00- 120.00	100.00(M)
14.542	13.973	(1.272)	ADC1A	321433	30.0000	29.5	191.55- 287.32	235.76
6 Acenaphthene						CAS #: 83-32-9		
14.773	14.310	(1.292)	VWD1A	60466	30.0000	29.6	80.00- 120.00	100.00(M)
14.861	14.310	(1.299)	ADC1A	799797	30.0000	30.5	964.12-1446.17	1322.72
7 Fluorene						CAS #: 86-73-7		
15.113	14.680	(1.321)	VWD1A	717186	30.0000	29.6	80.00- 120.00	100.00(M)
15.201	14.680	(1.329)	ADC1A	80448	30.0000	28.5	9.06- 13.59	11.22
8 Phenanthrene						CAS #: 85-01-8		
15.890	15.500	(1.389)	VWD1A	1947185	30.0000	29.1	80.00- 120.00	100.00(M)
15.981	15.500	(1.397)	ADC1A	2002711	30.0000	29.4	78.58- 117.87	102.85
9 Anthracene						CAS #: 120-12-7		
16.580	16.223	(1.450)	VWD1A	3848859			80.00- 120.00	100.00(M)
16.672	16.223	(1.458)	ADC1A	287702	30.0000	29.9	5.00- 7.50	7.47
10 Fluoranthene						CAS #: 206-44-0		
17.386	17.066	(1.520)	VWD1A	475542	30.0000	29.4	80.00- 120.00	100.00(M)
17.471	17.066	(1.528)	ADC1A	0			6.36- 9.54	0.00
11 Pyrene						CAS #: 129-00-0		
17.906	17.606	(1.566)	VWD1A	382479	30.0000	29.5	80.00- 120.00	100.00(M)
18.004	17.606	(1.574)	ADC1A	5035365	30.0000	28.3	935.91-1403.86	1316.51
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.830	18.593	(1.646)	VWD1A	435406	30.0000	29.5	80.00- 120.00	100.00(M)
18.922	18.593	(1.655)	ADC1A	11395256	30.0000	28.7	2246.35-3369.53	2617.16
13 Benzo(a)Anthracene						CAS #: 56-55-3		
19.646	19.426	(1.718)	VWD1A	1141863	30.0000	29.8	80.00- 120.00	100.00(M)
19.742	19.426	(1.726)	ADC1A	12105673	30.0000	28.7	881.58-1322.37	1060.17
14 Chrysene						CAS #: 218-01-9		
20.026	19.820	(1.751)	VWD1A	1665764	30.0000	30.2	80.00- 120.00	100.00(M)
20.122	19.820	(1.760)	ADC1A	3728257	30.0000	28.8	190.14- 285.21	223.82
15 Benzo(b)Fluoranthene						CAS #: 205-99-2		
21.403	21.253	(1.000)	VWD1A	1245067	30.0000	29.5	80.00- 120.00	100.00
21.499	21.253	(1.000)	ADC1A	356365	30.0000	30.6	20.85- 31.28	28.62
16 Benzo(k)Fluoranthene						CAS #: 207-08-9		
22.013	21.883	(1.925)	VWD1A	917141	30.0000	29.0	80.00- 120.00	100.00(M)

RT	EXP RT	REL RT	SIGNAL	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
16 Benzo(k)Fluoranthene (continued)								
22.111	21.883	(1.933)	ADC1A	659284	30.0000	30.3	52.76- 79.15	71.88
17 Benzo(a)pyrene						CAS #: 50-32-8		
22.596	22.476	(1.000)	VWD1A	1114320	30.0000	29.8	80.00- 120.00	100.00
22.696	22.476	(1.000)	ADC1A	1890084	30.0000	29.8	138.13- 207.19	169.62
18 Dibenz(ah)Anthracene						CAS #: 53-70-3		
23.580	23.493	(1.000)	VWD1A	254454	30.0000	29.8	80.00- 120.00	100.00
23.677	23.493	(1.000)	ADC1A	3095319	30.0000	30.4	949.04-1423.56	1216.46
19 Benzo(ghi)Perylene						CAS #: 191-24-2		
24.306	24.226	(1.000)	VWD1A	437328	30.0000	29.9	80.00- 120.00	100.00
24.407	24.226	(1.000)	ADC1A	931923	30.0000	30.1	155.32- 232.98	213.09
20 Indeno(123cd)Pyrene						CAS #: 193-39-5		
24.770	24.703	(2.166)	VWD1A	1082545	30.0000	28.9	80.00- 120.00	100.00(TM)
25.077	24.703	(2.193)	ADC1A	234599			0.00- 0.00	21.67

QC Flag Legend

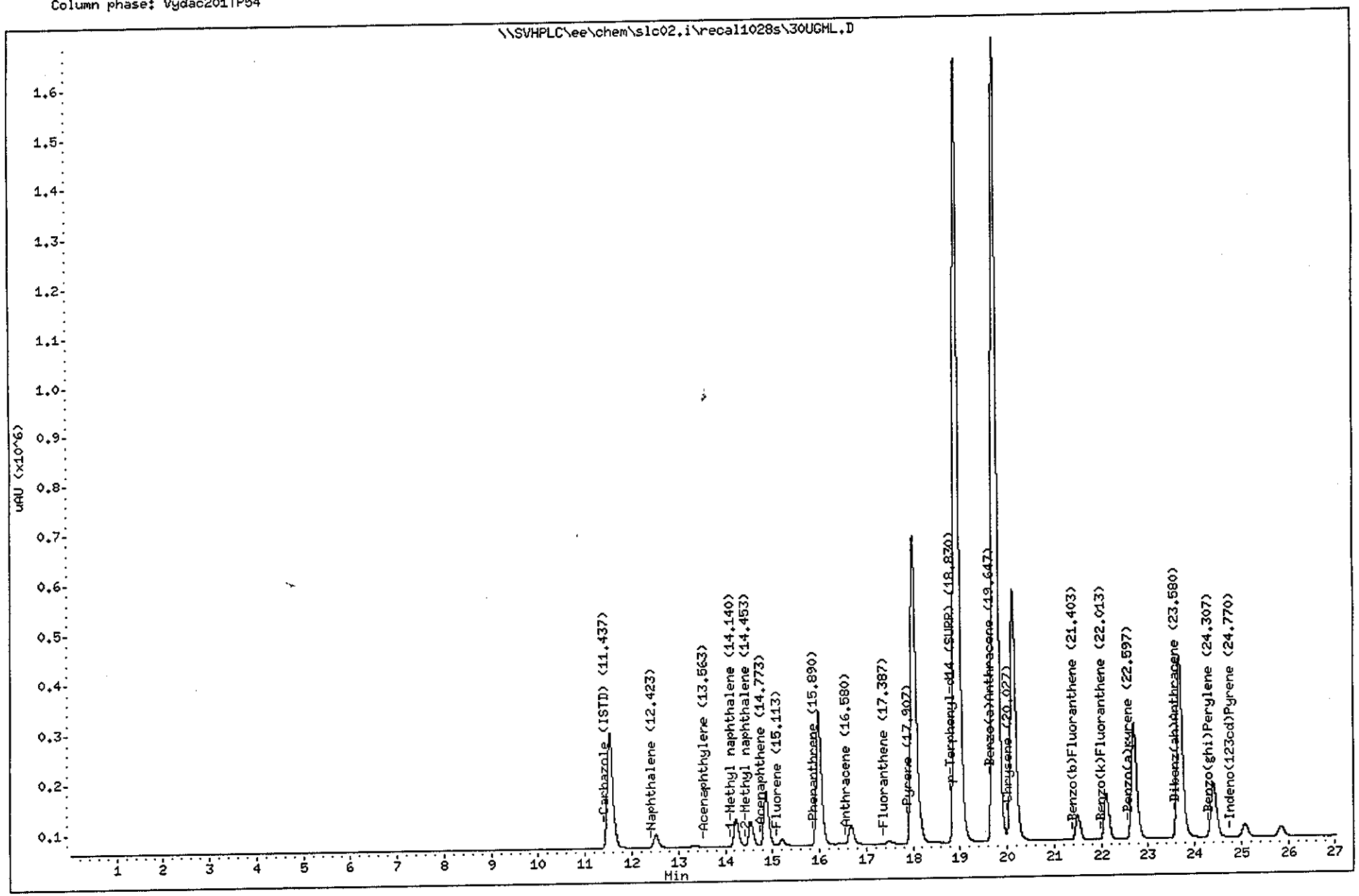
T - Target compound detected outside RT window.
M - Compound response manually integrated.

Data File: \\SVHPLC\ee\chem\slc02.i\recal1028s\30UGML.D
Date : 28-OCT-2001 17:48
Client ID: 30st2850
Sample Info: 30st2850

Instrument: slc02.i

Operator: rood
Column diameter: 4.60

Column phase: Vydac201TP54



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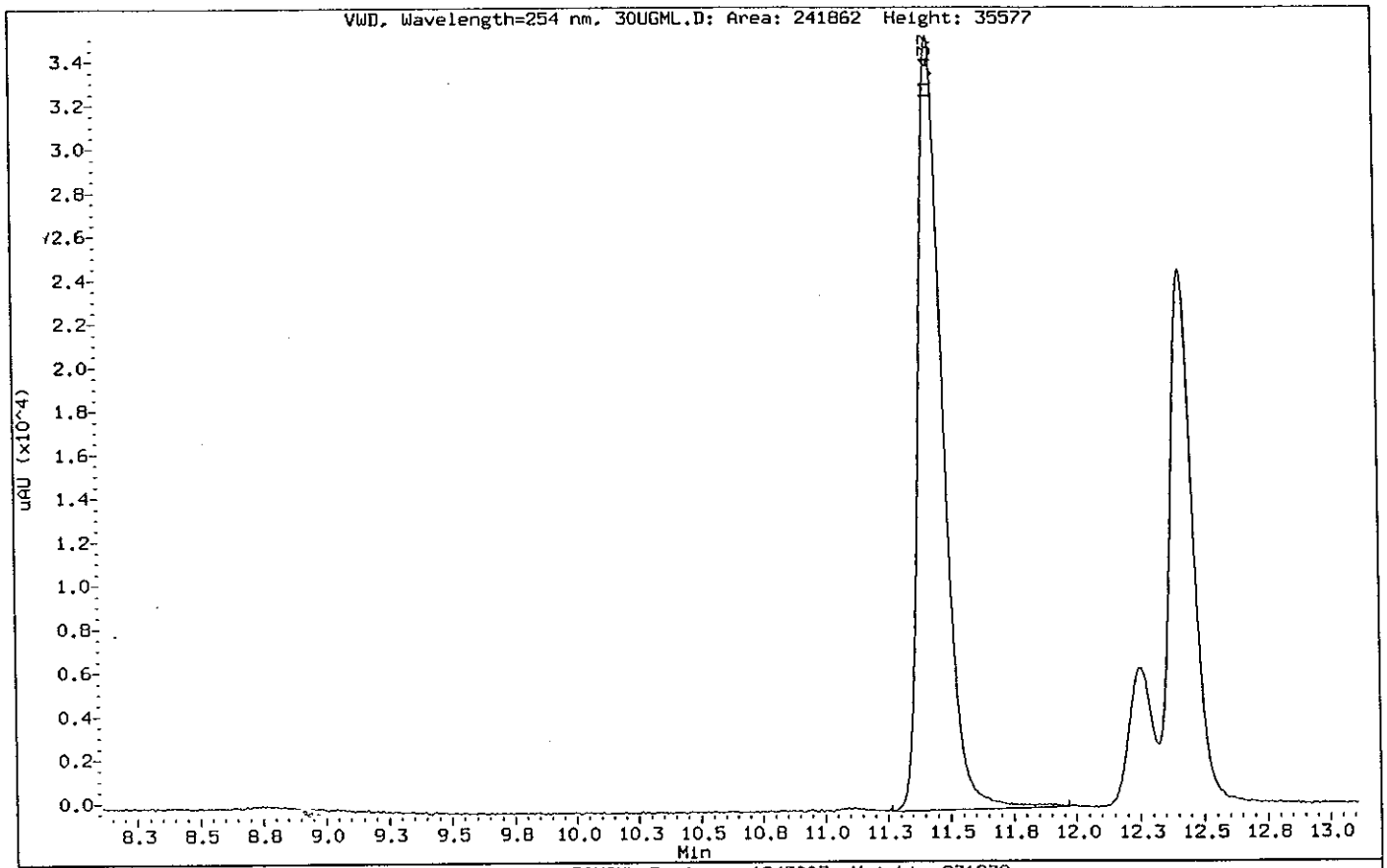
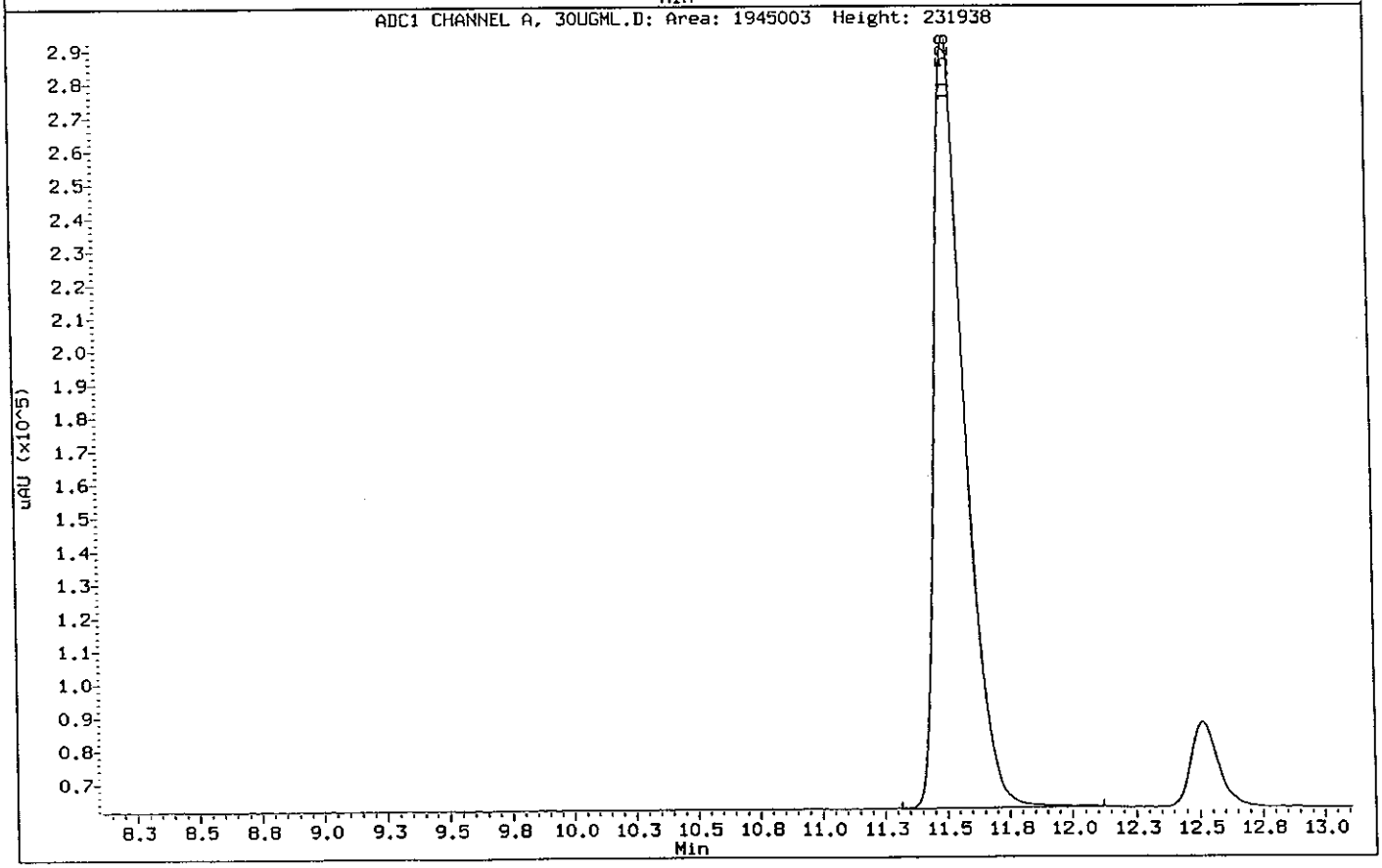
Instrument: slc02.i
Client Sample ID: 30st2850

Compound: Carbazole (ISTD)
CAS Number: 86-74-8





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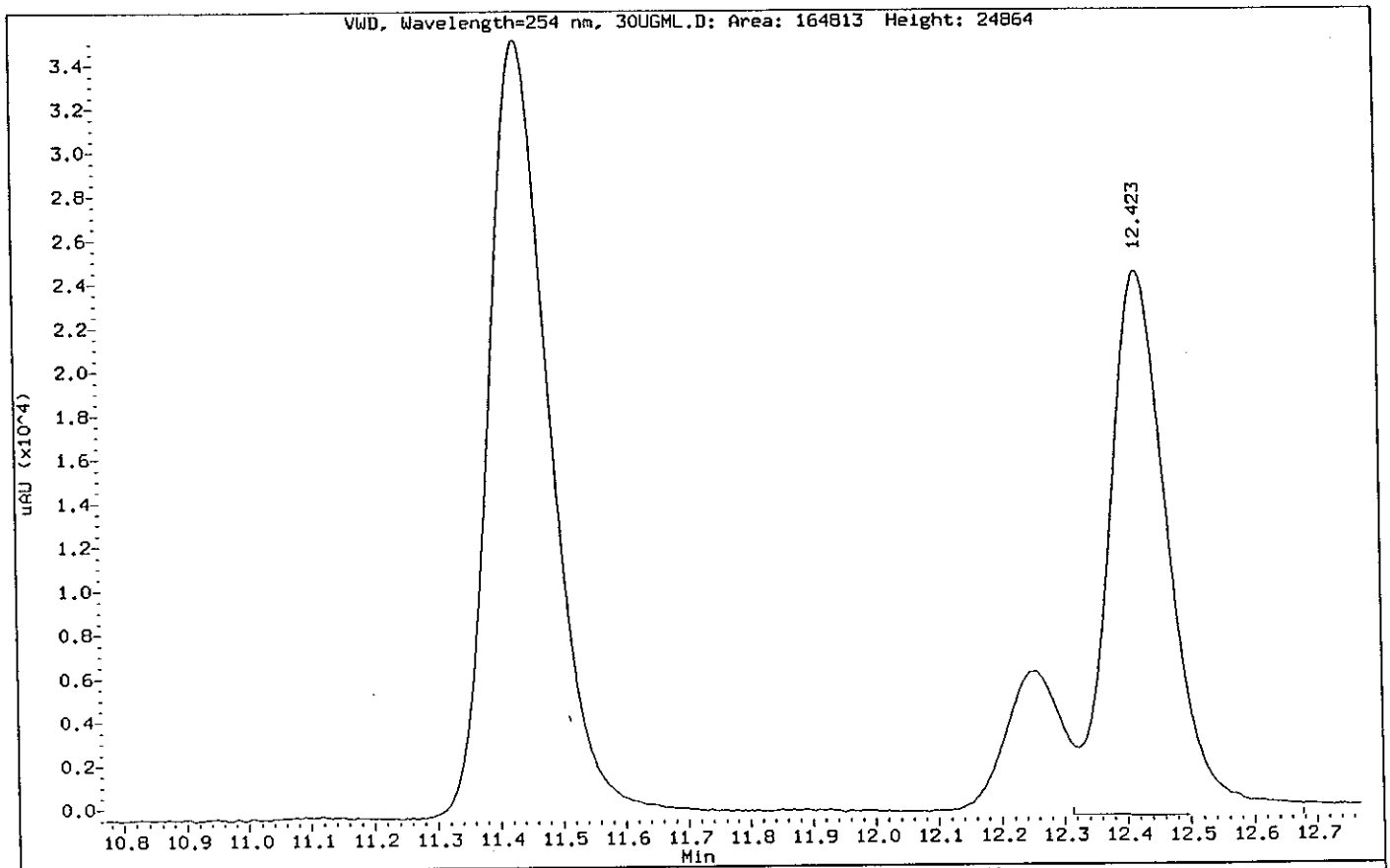
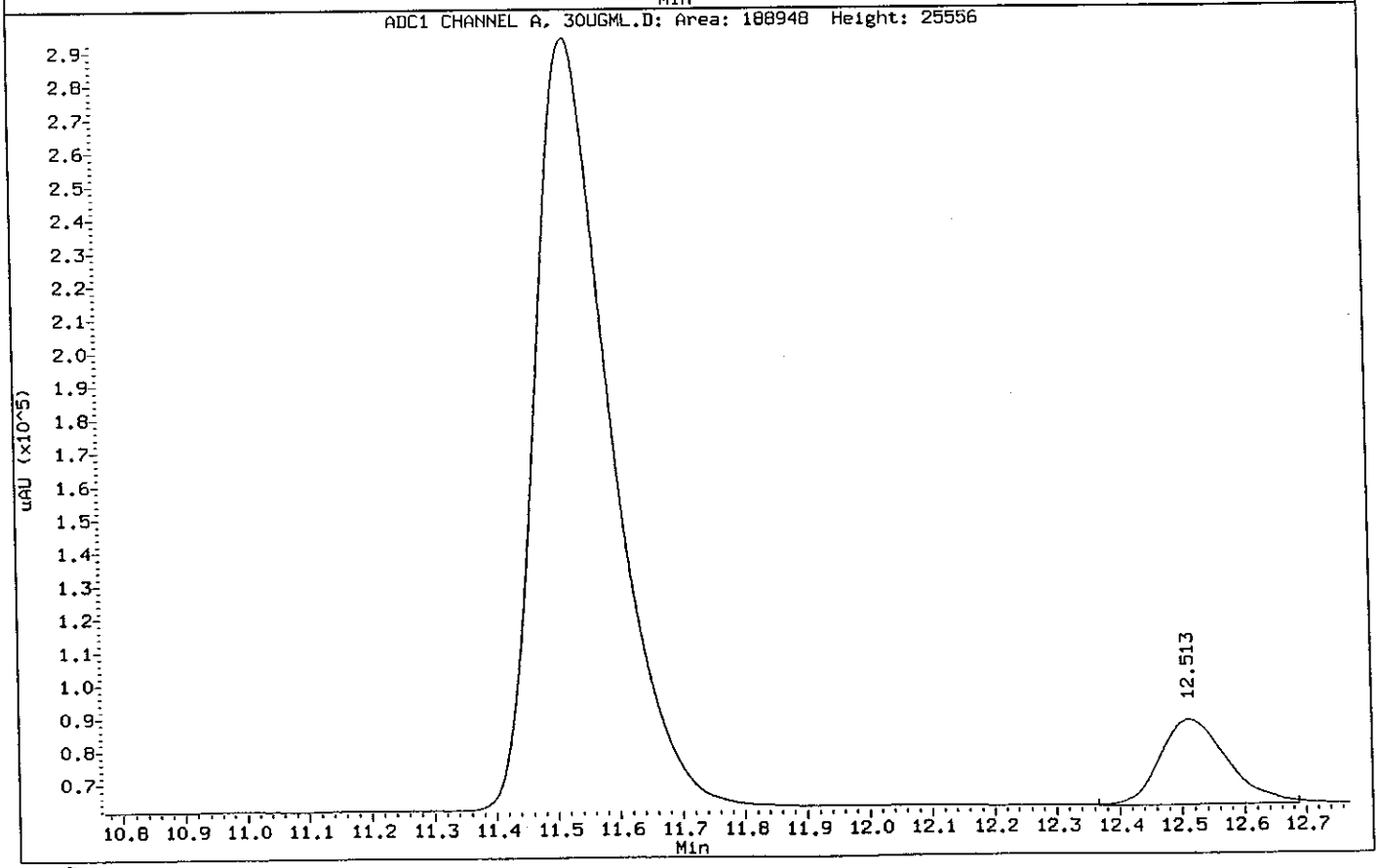
Instrument: slc02.i
Client Sample ID: 30st2850

Compound: Naphthalene
CAS Number: 91-20-3





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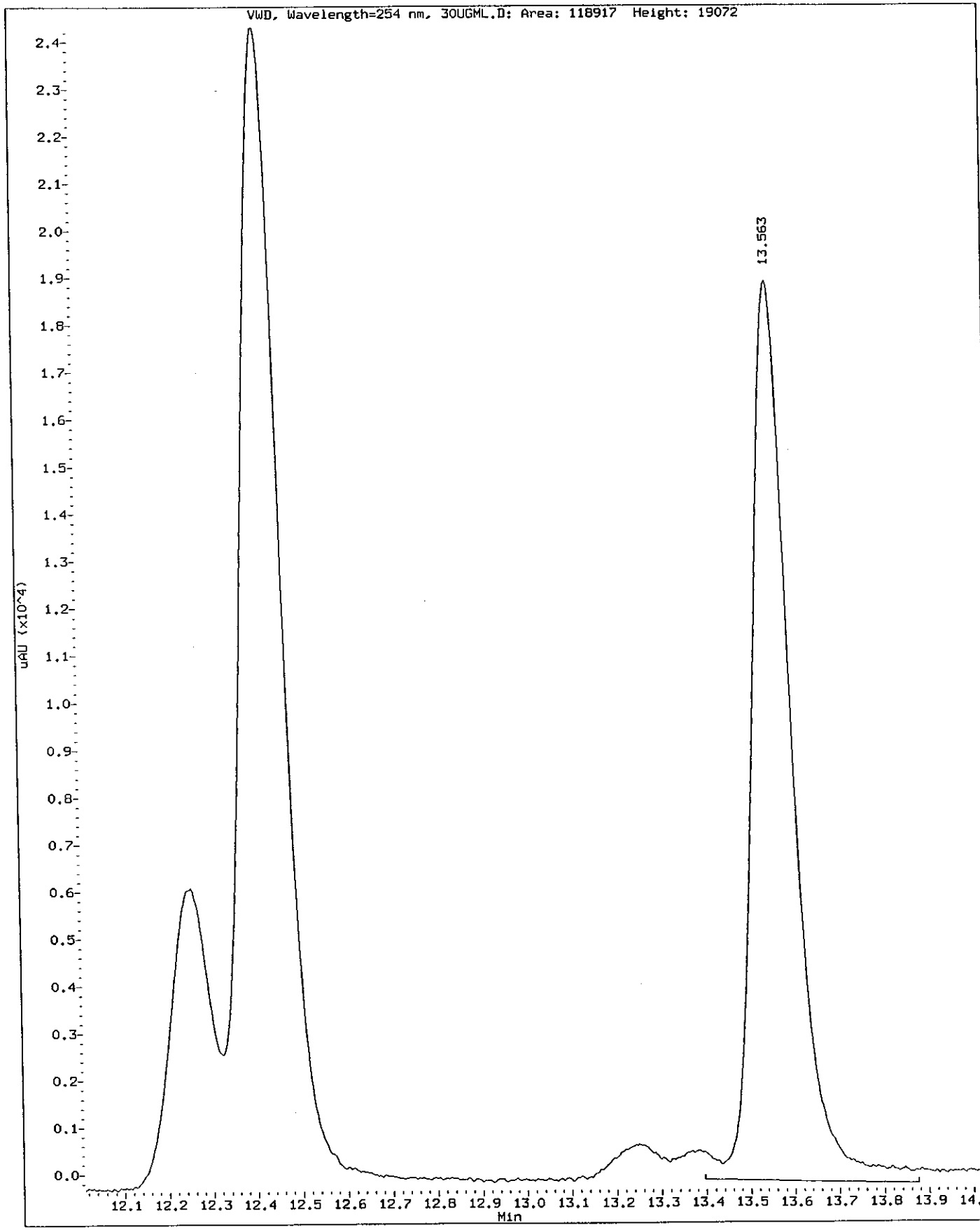
Instrument: slc02.i
Client Sample ID: 30st2850

Compound: Acenaphthylene
CAS Number: 208-96-8



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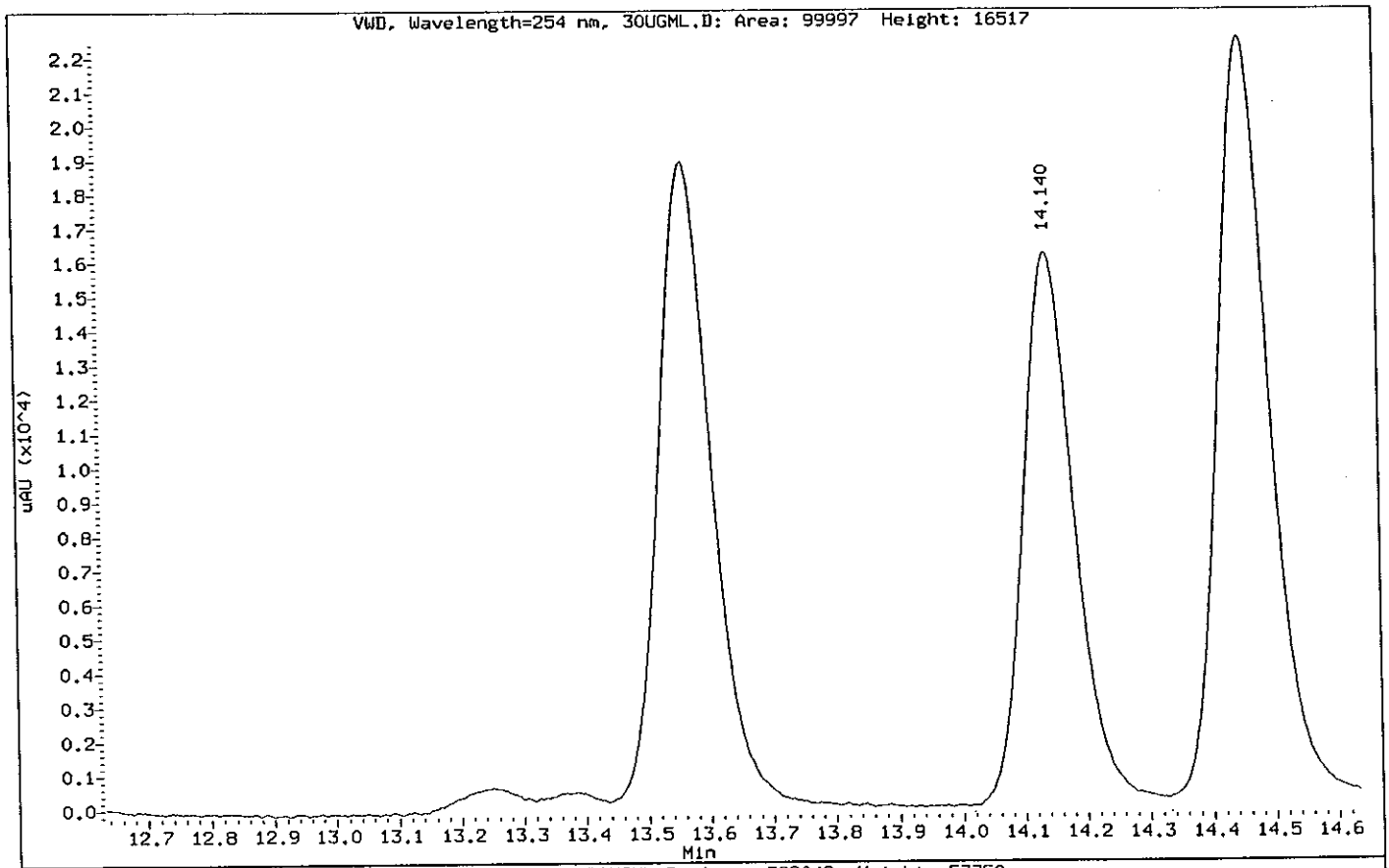
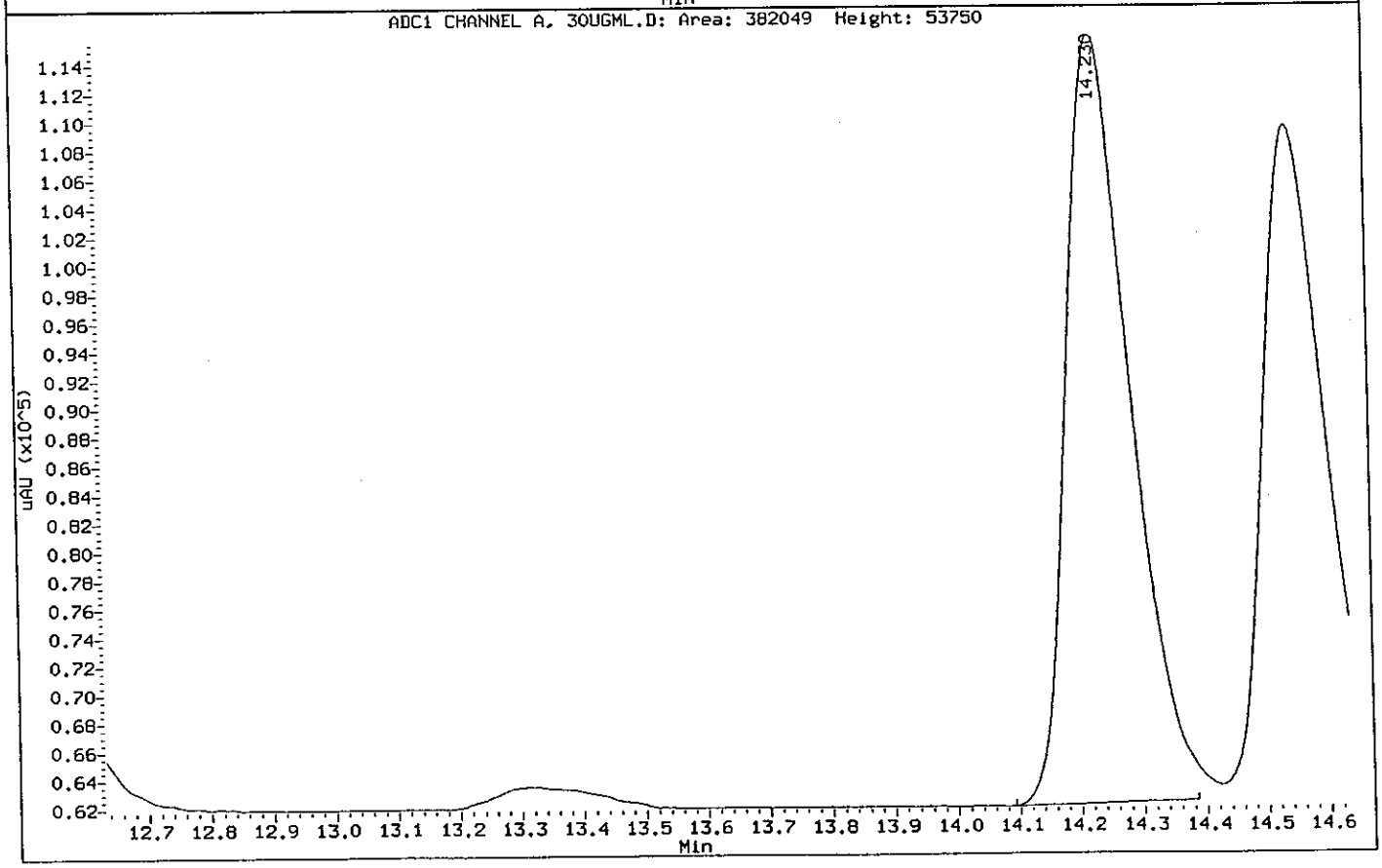
Compound: 1-Methyl naphthalene
CAS Number: 90-12-0





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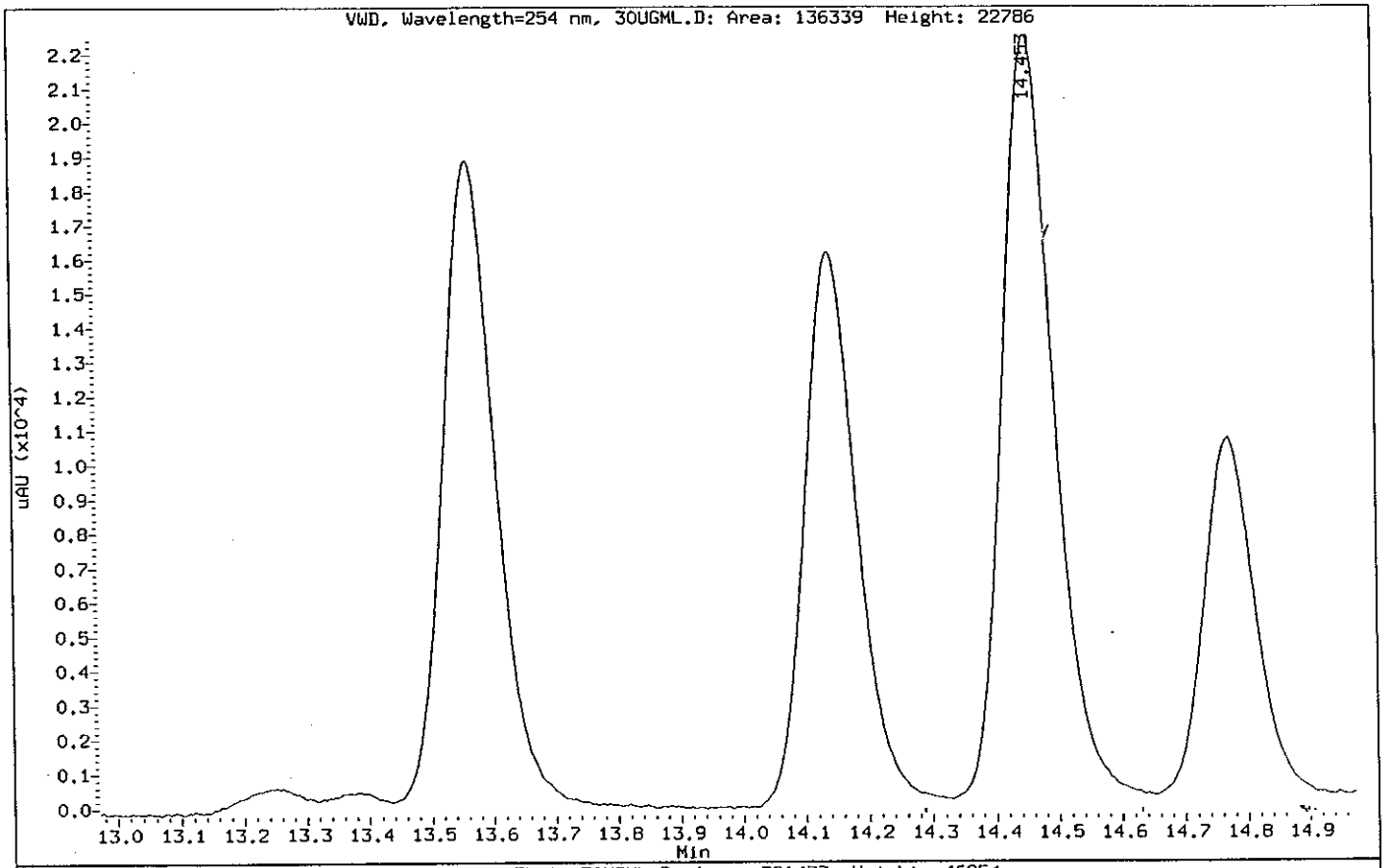
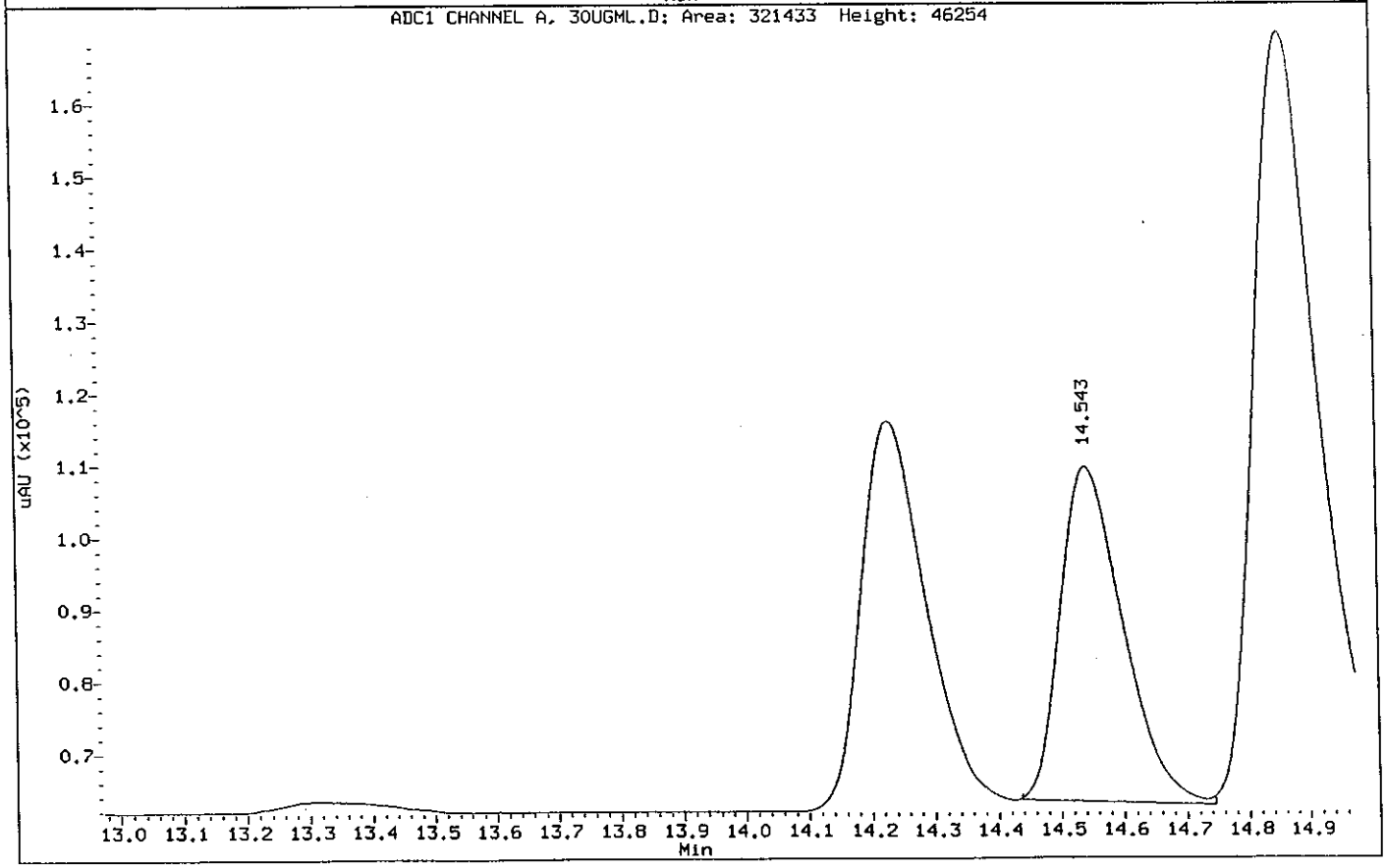
Instrument: slc02.i
Client Sample ID: 30st2850

Compound: 2-Methyl naphthalene
CAS Number: 91-57-6





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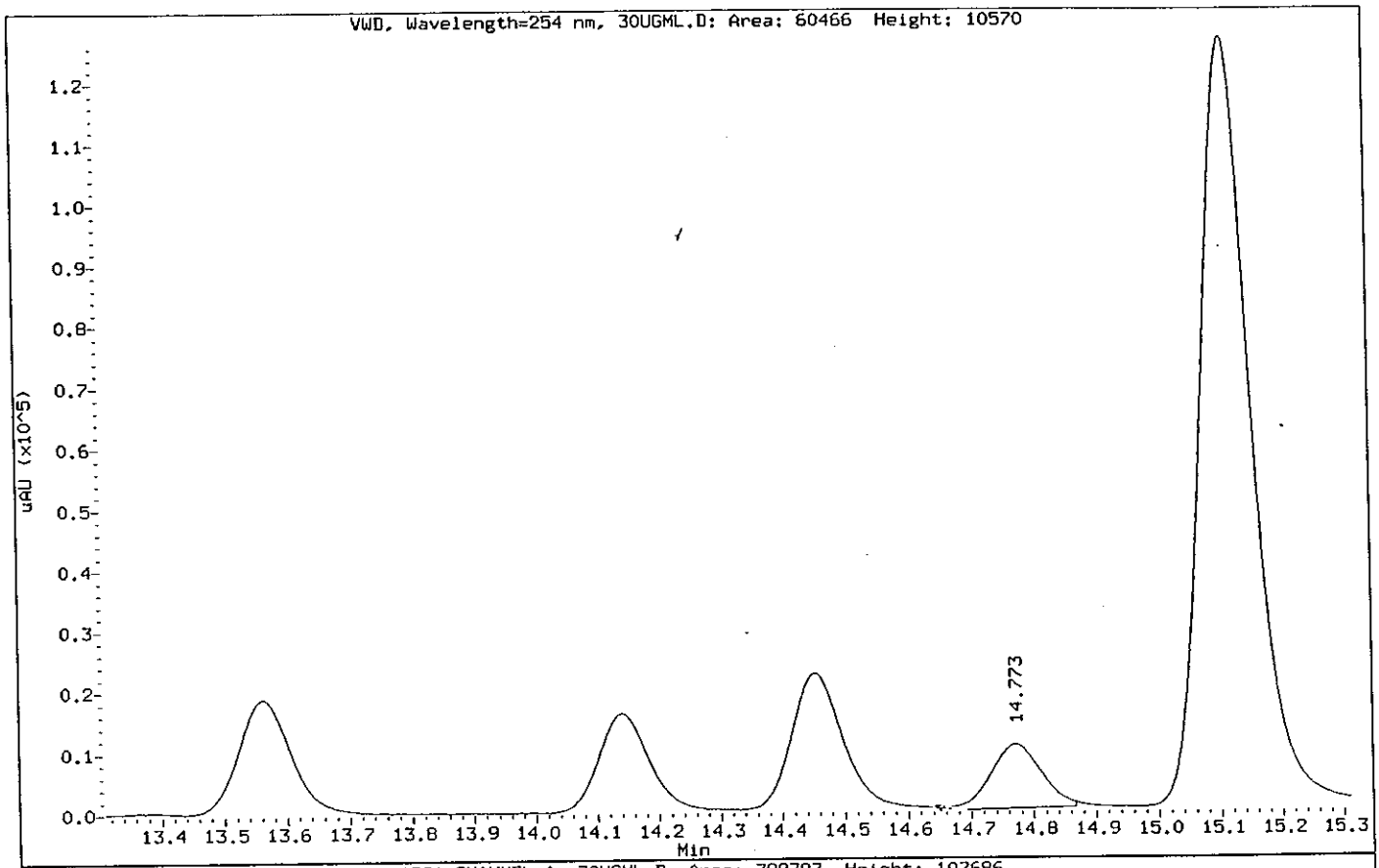
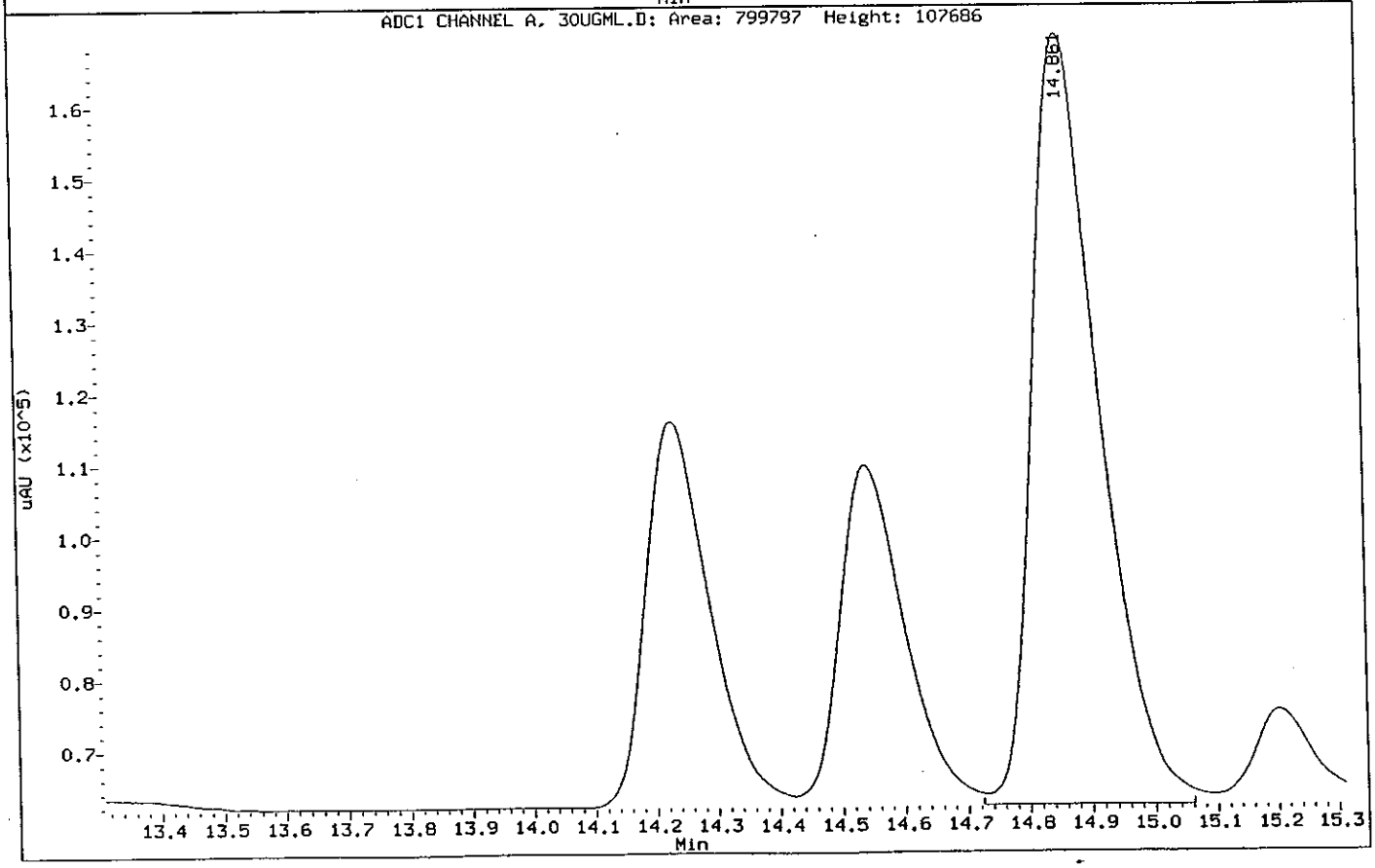
Instrument: slc02.i
Client Sample ID: 30st2850

Compound: Acenaphthene
CAS Number: 83-32-9





TMD

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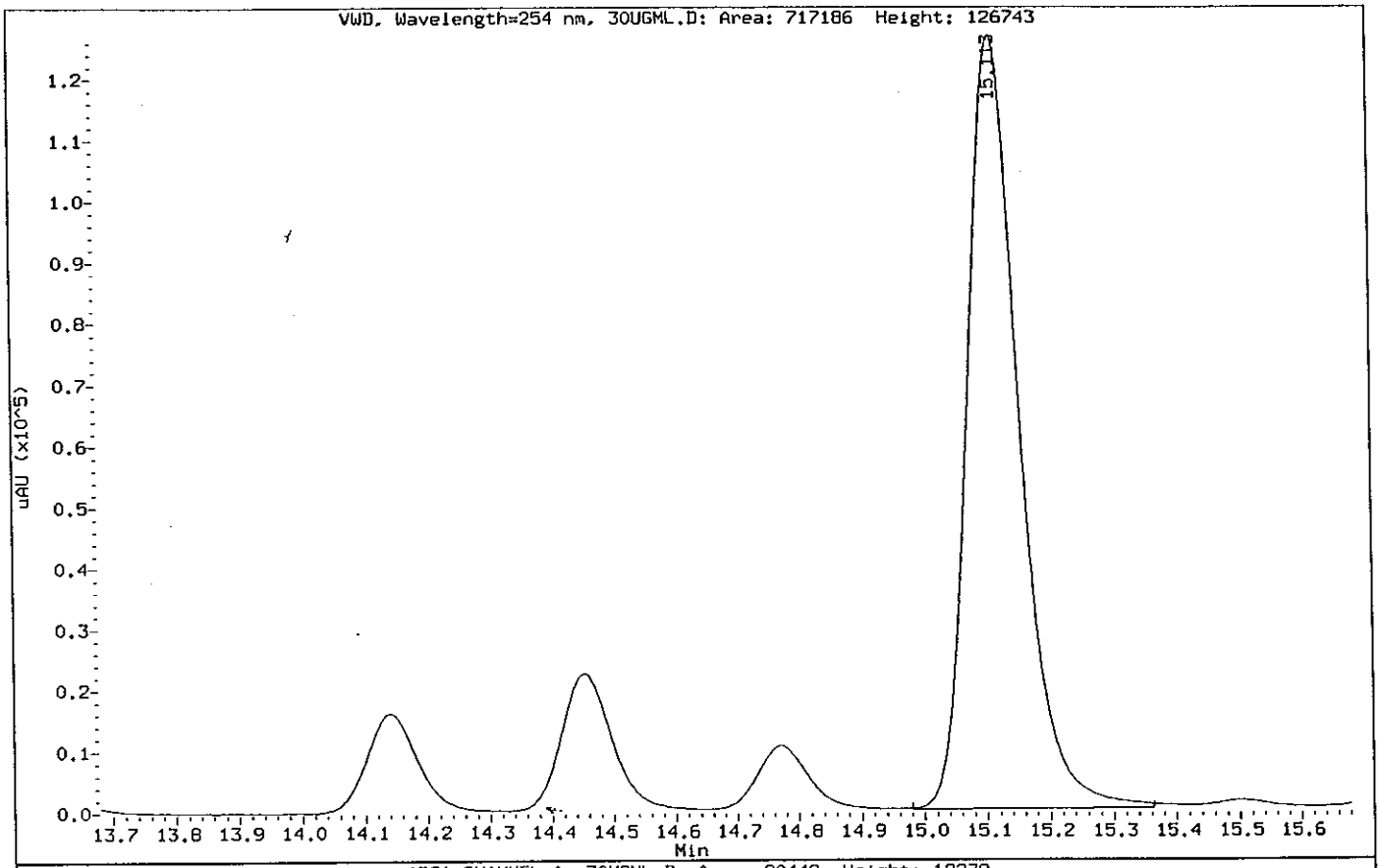
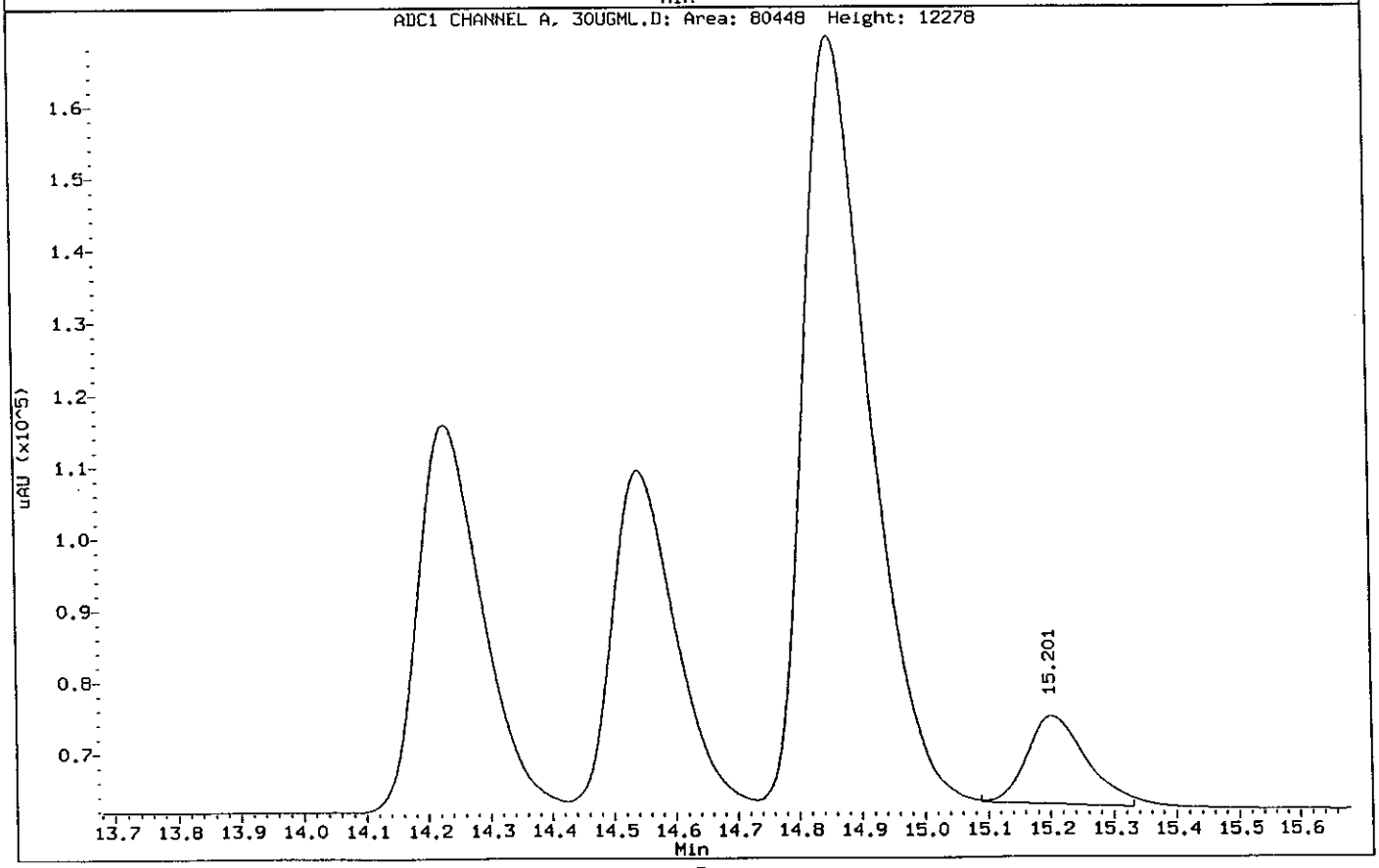
Instrument: slc02.i
Client Sample ID: 30st2850

Compound: Fluorene
CAS Number: 86-73-7





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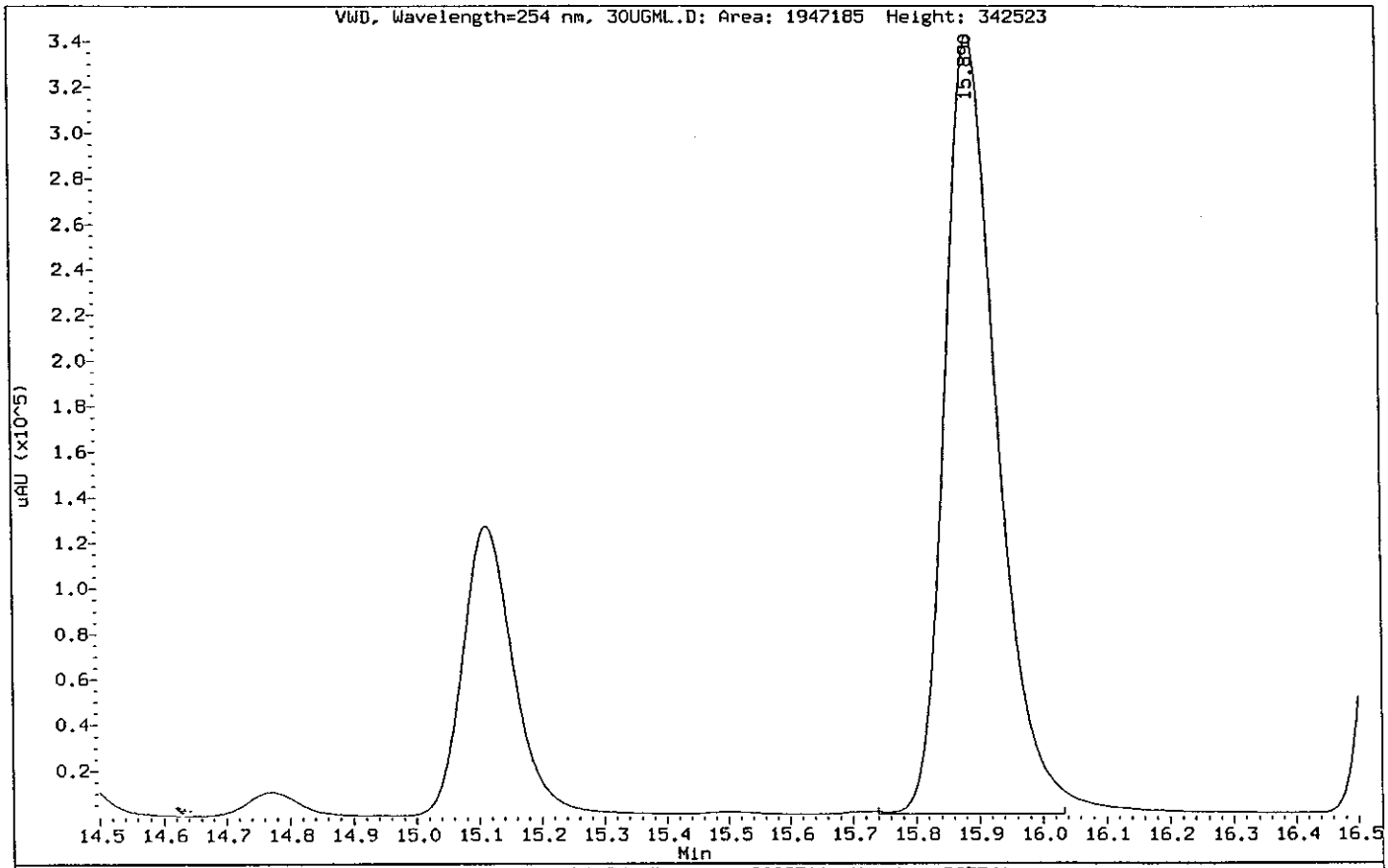
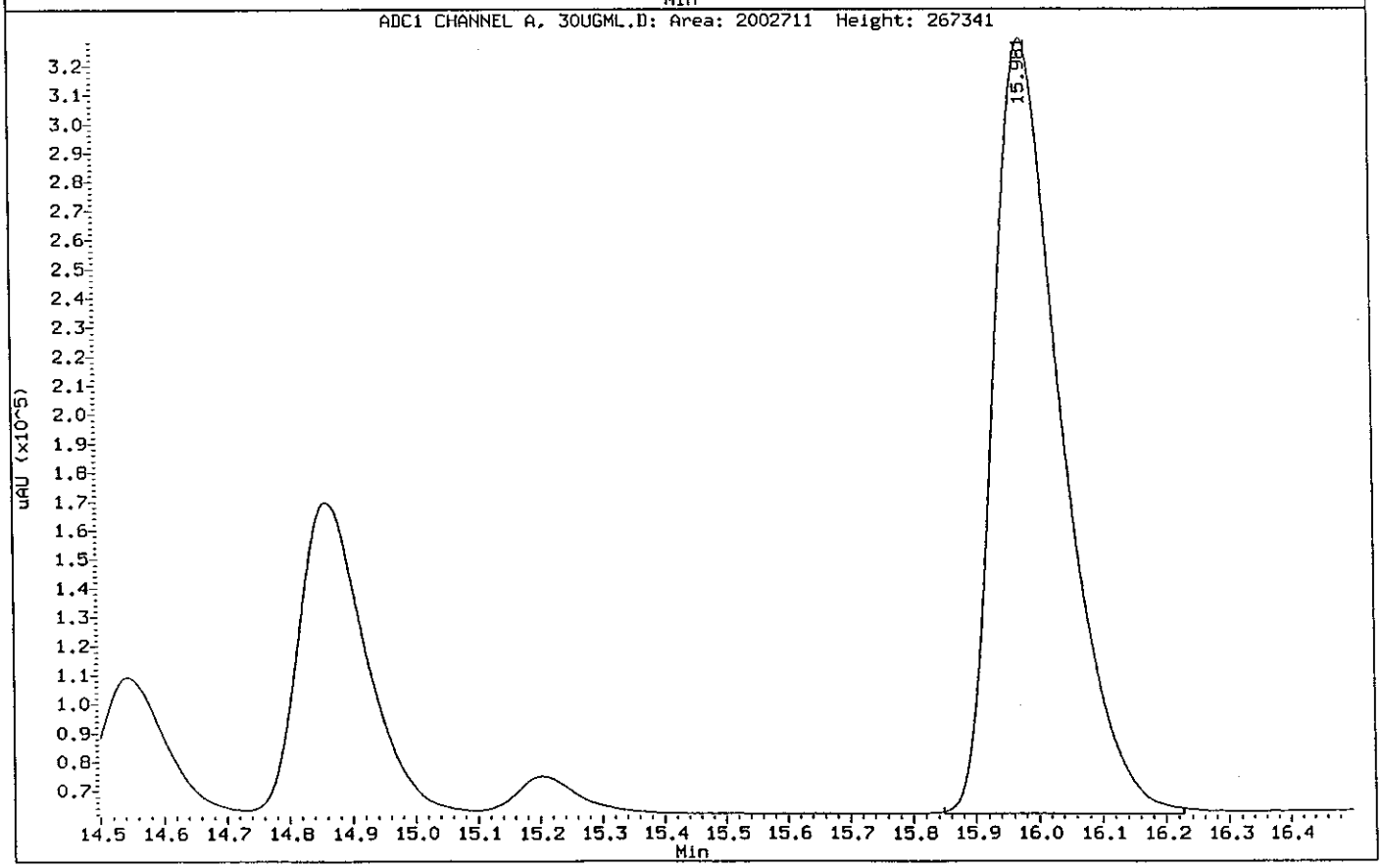
Instrument: slc02.i
Client Sample ID: 30st2850

Compound: Phenanthrene
CAS Number: 85-01-8





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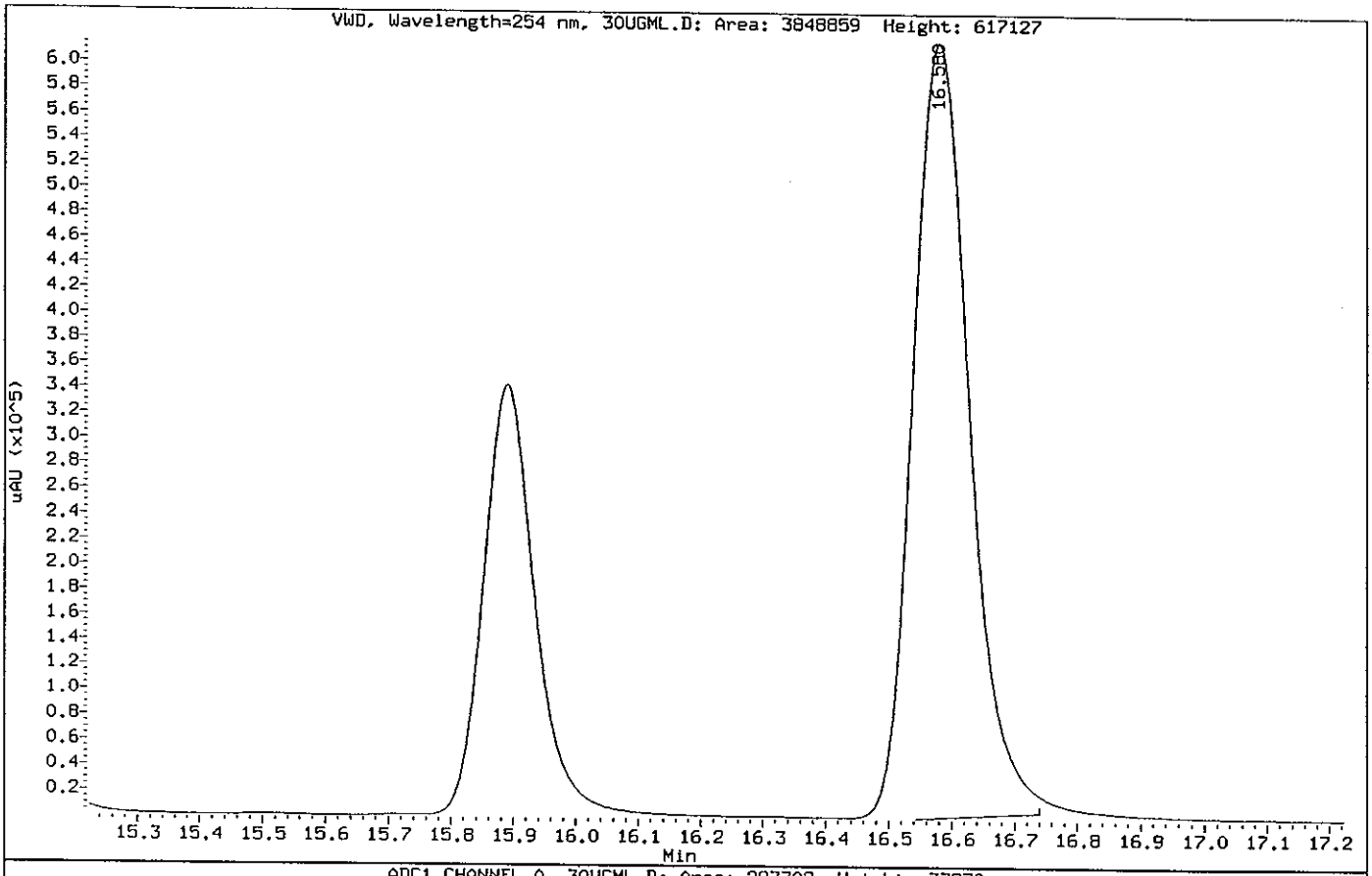
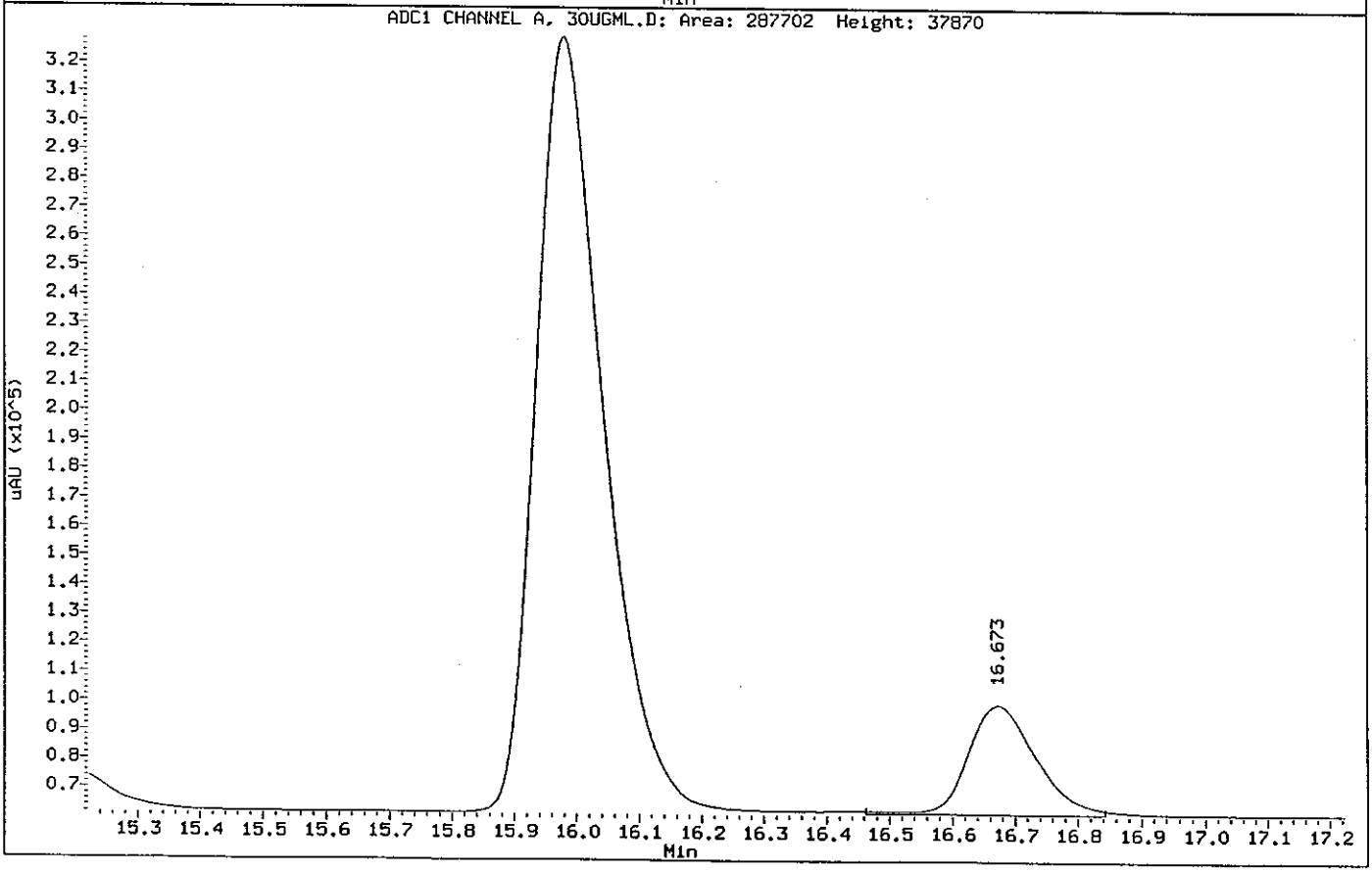
Instrument: slc02.i
Client Sample ID: 30st2850

Compound: Anthracene
CAS Number: 120-12-7

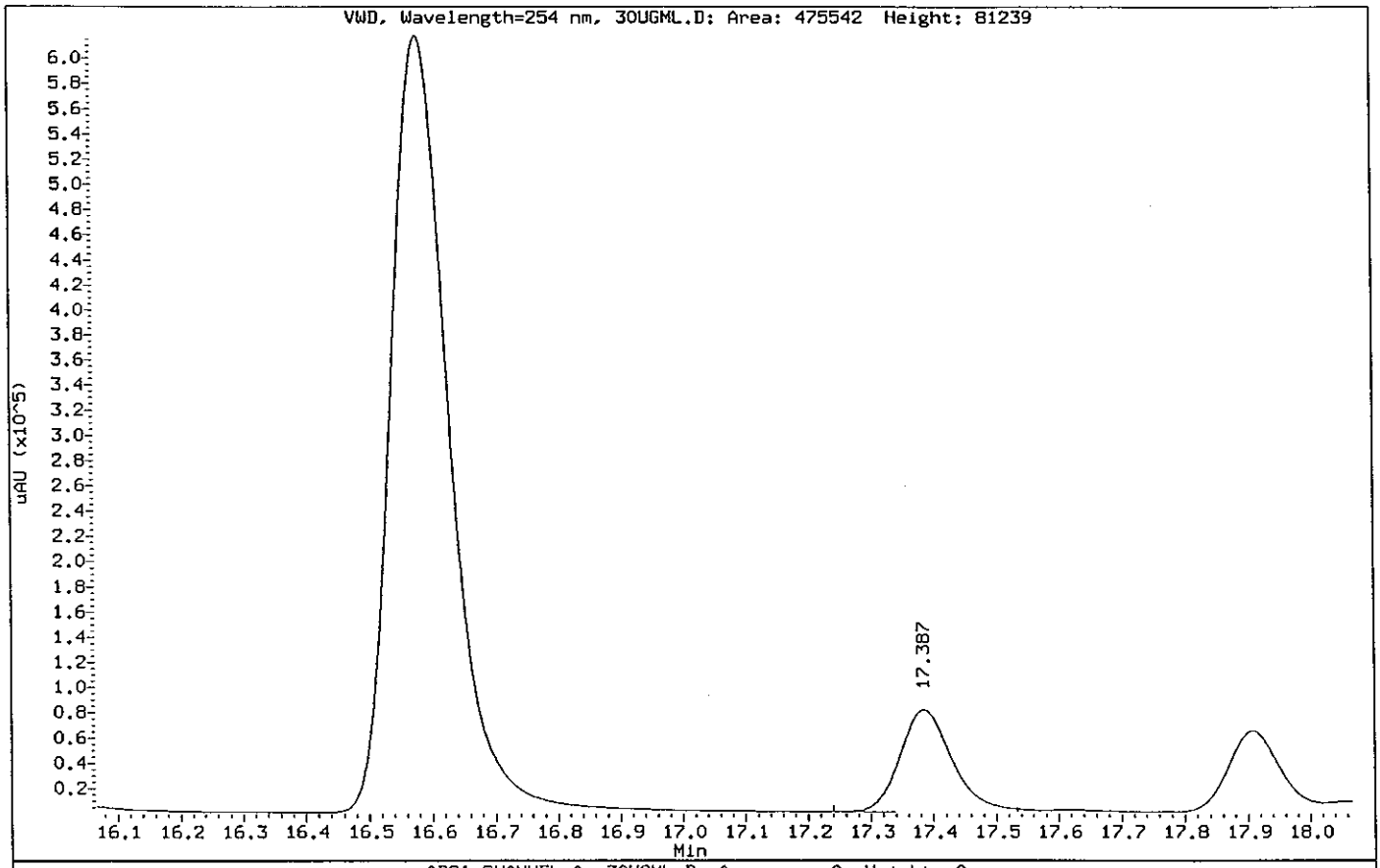


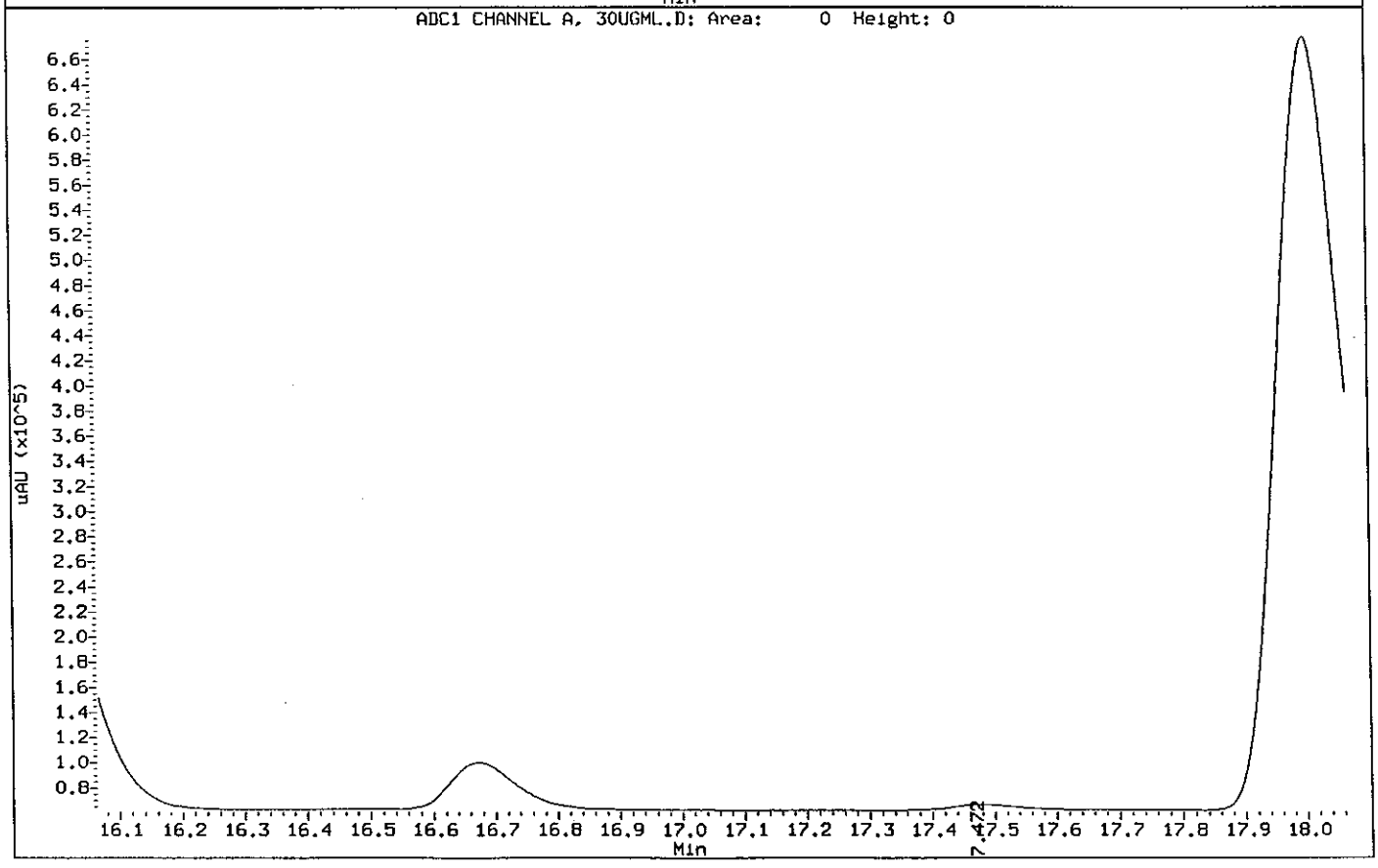


JMB

Data File: \\SVHPLC\ee\chem\slc02.i\recal1028s\30UGML.D
Injection Date: 28-OCT-2001 17:48
Instrument: slc02.i
Client Sample ID: 30st2850

Compound: Fluoranthene
CAS Number: 206-44-0

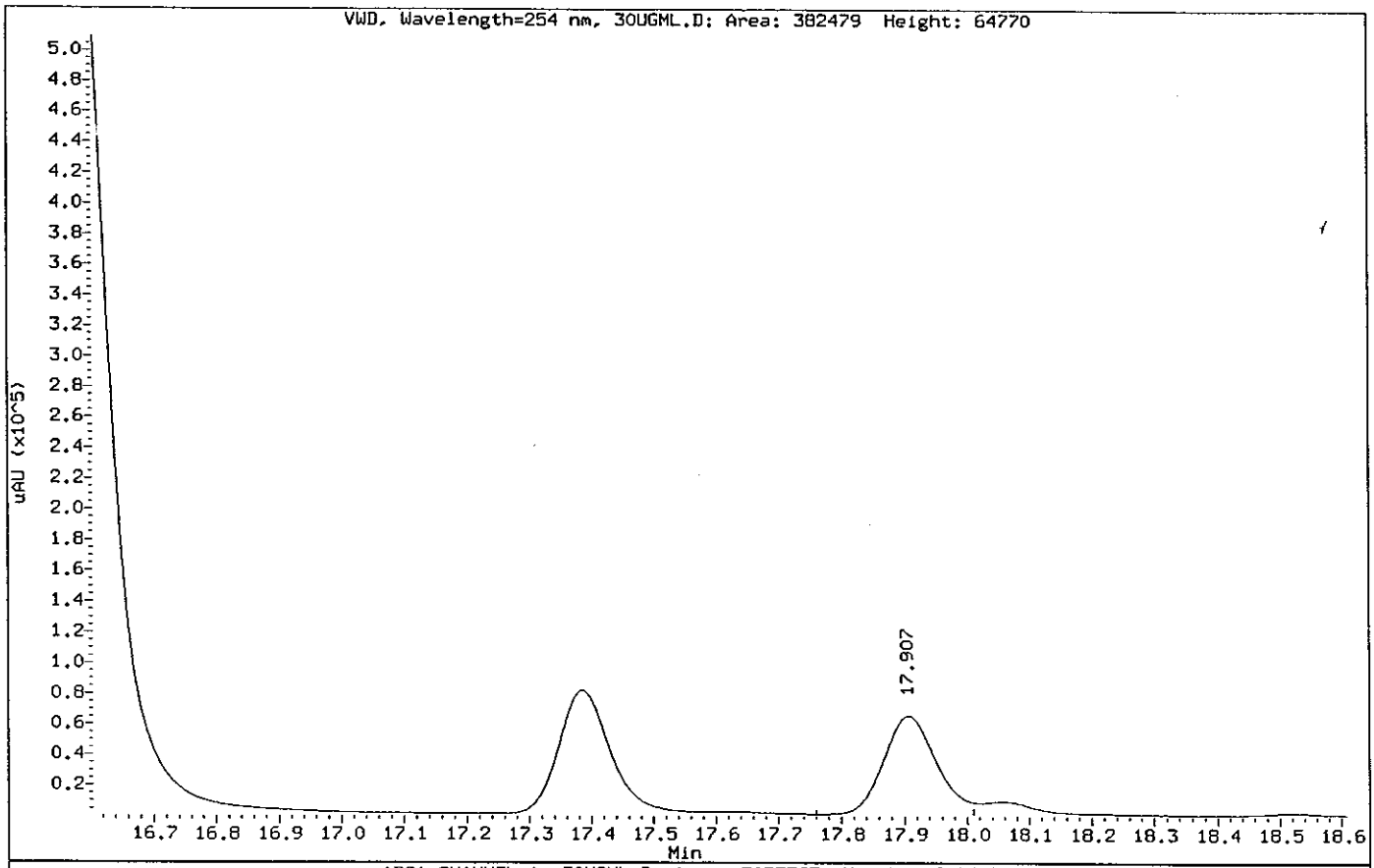


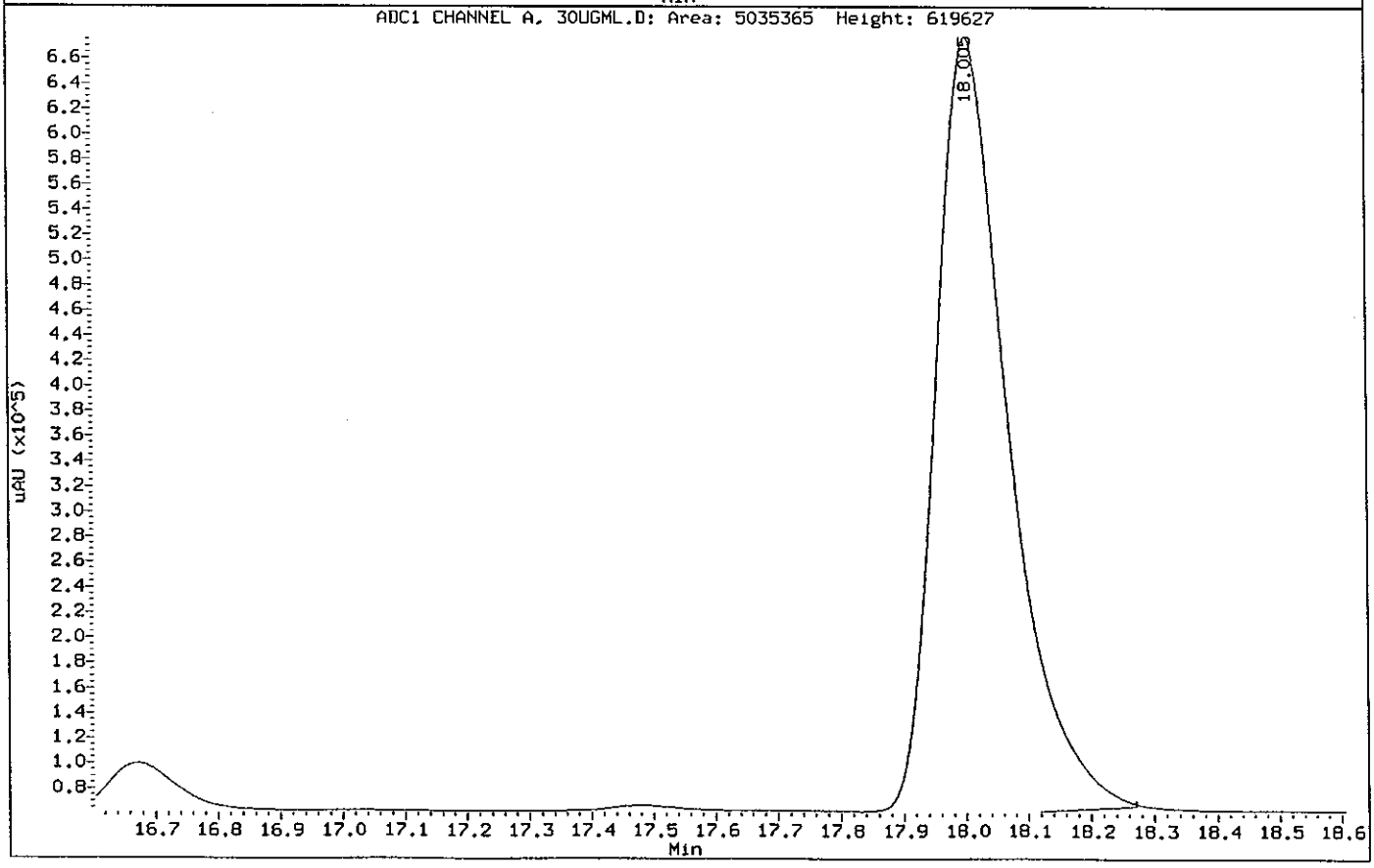


TMD

Data File: \\SVHPLC\ee\chem\slc02.i\recal1028s\30UGML.D
Injection Date: 28-OCT-2001 17:48
Instrument: slc02.i
Client Sample ID: 30st2850

Compound: Pyrene
CAS Number: 129-00-0





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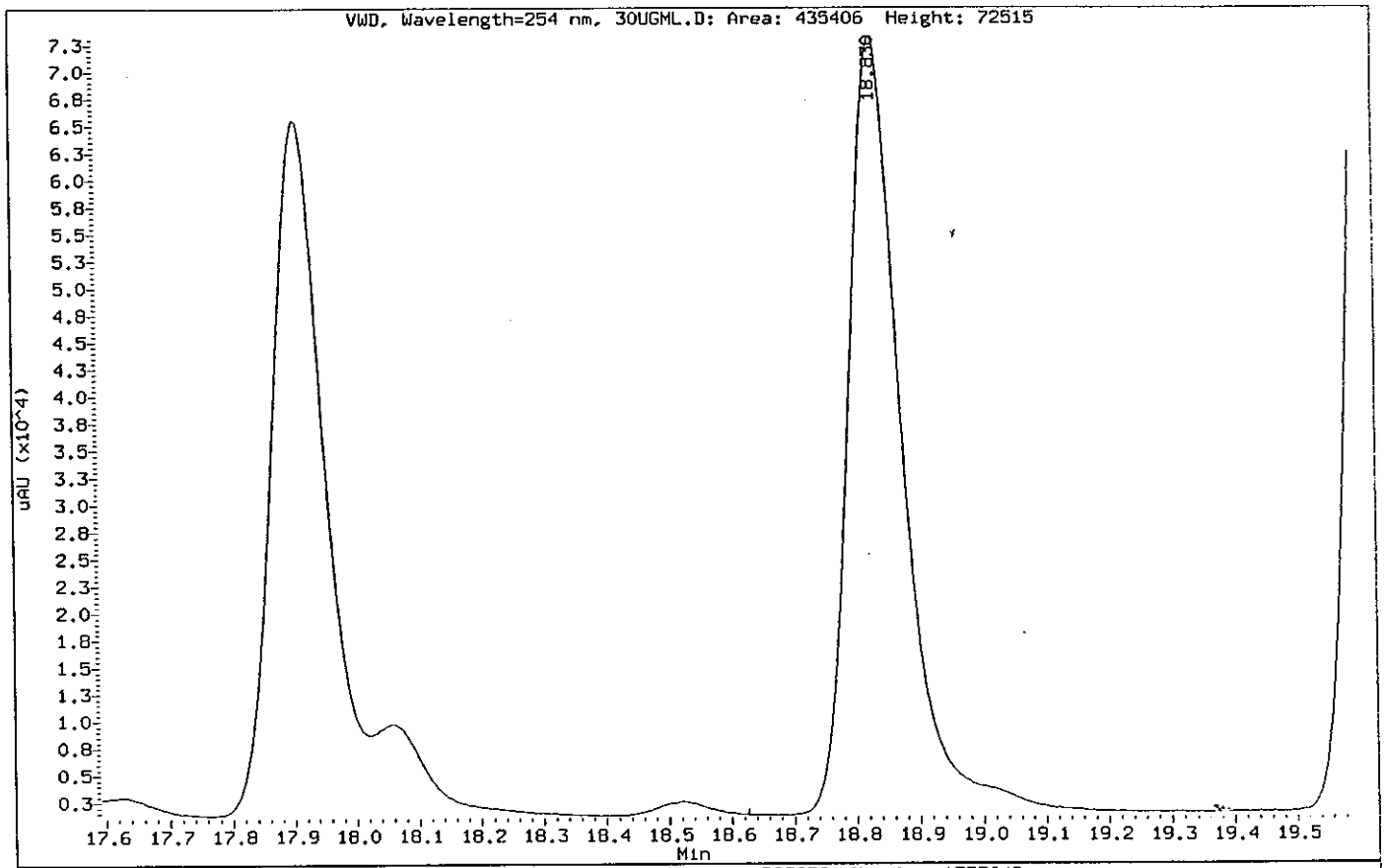
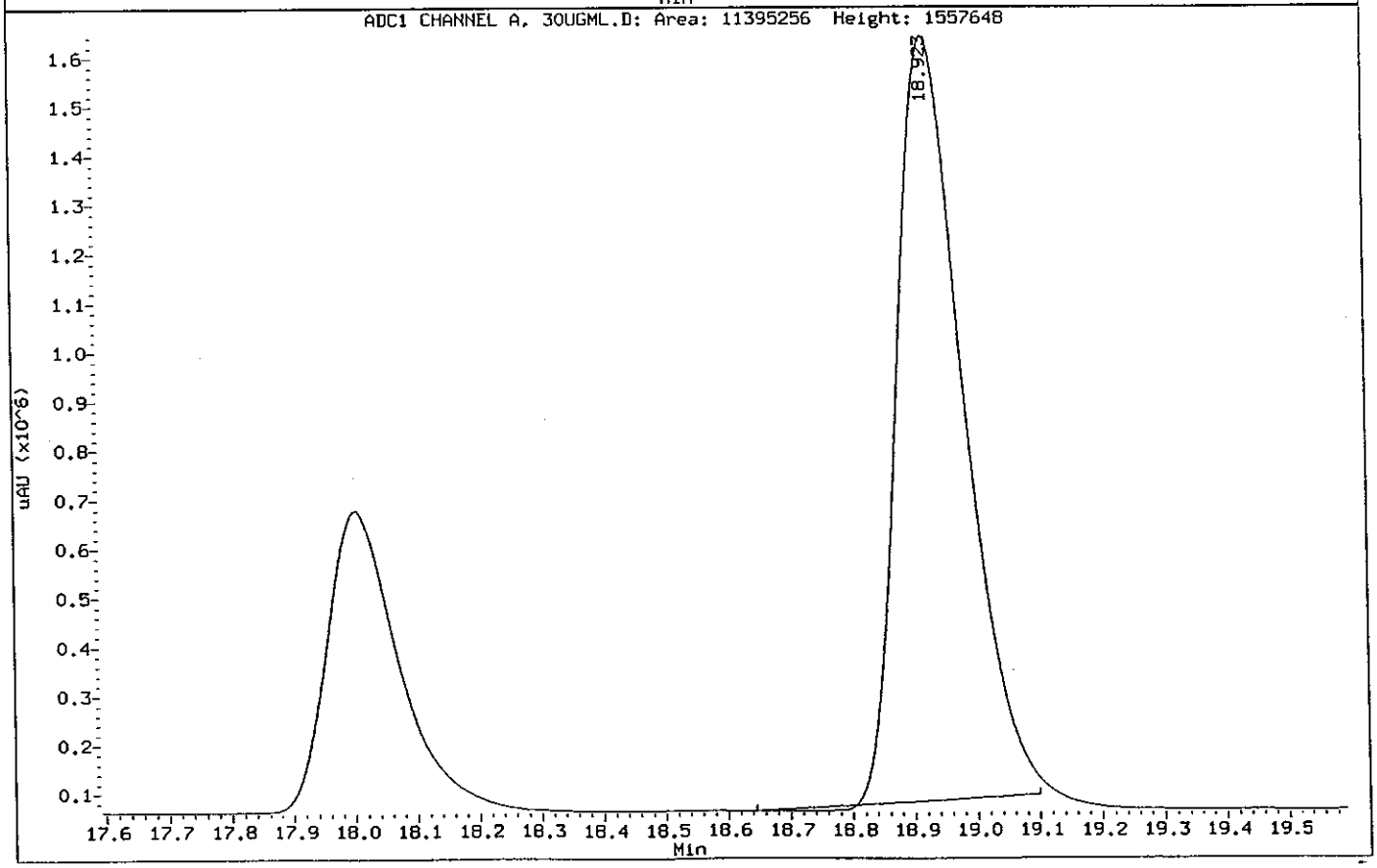
Injection Date: 28-OCT-2001 17:48
Instrument: slc02.i
Client Sample ID: 30st2850

Compound: p-Terphenyl-d14 (SURR)
CAS Number: 1718-51-0





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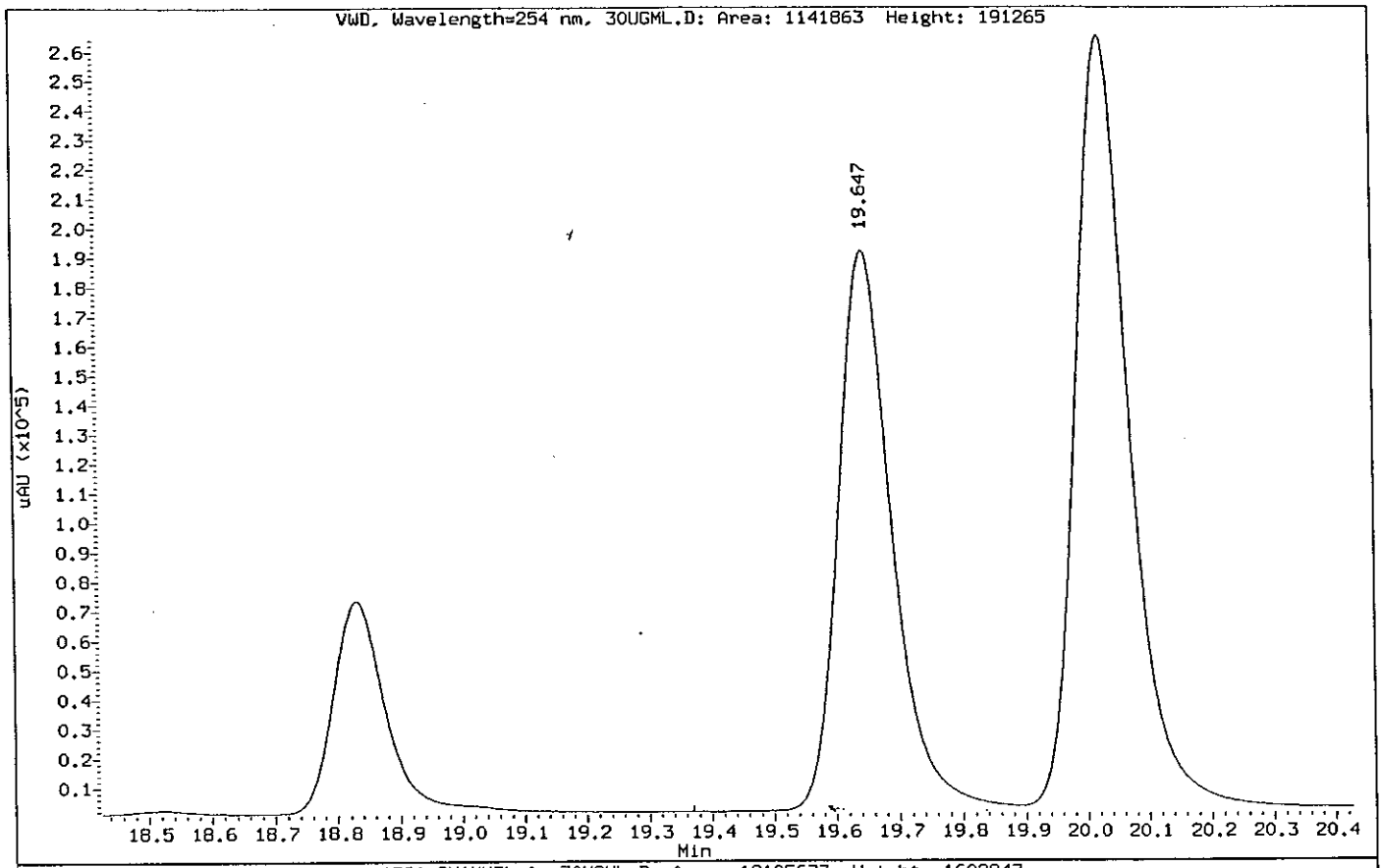
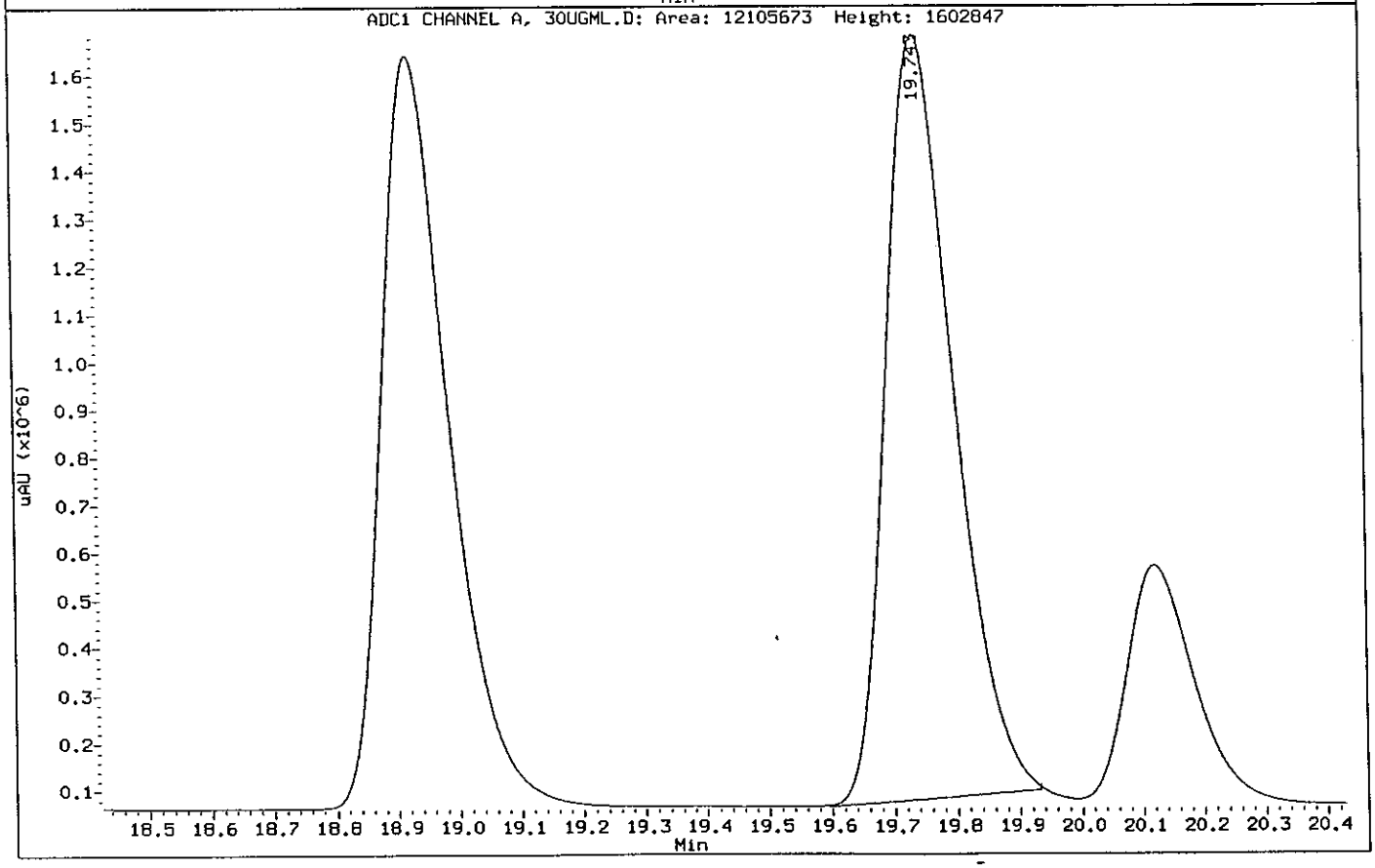
Injection Date: 28-OCT-2001 17:48
Instrument: slc02.i
Client Sample ID: 30st2850

Compound: Benzo(a)Anthracene
CAS Number: 56-55-3





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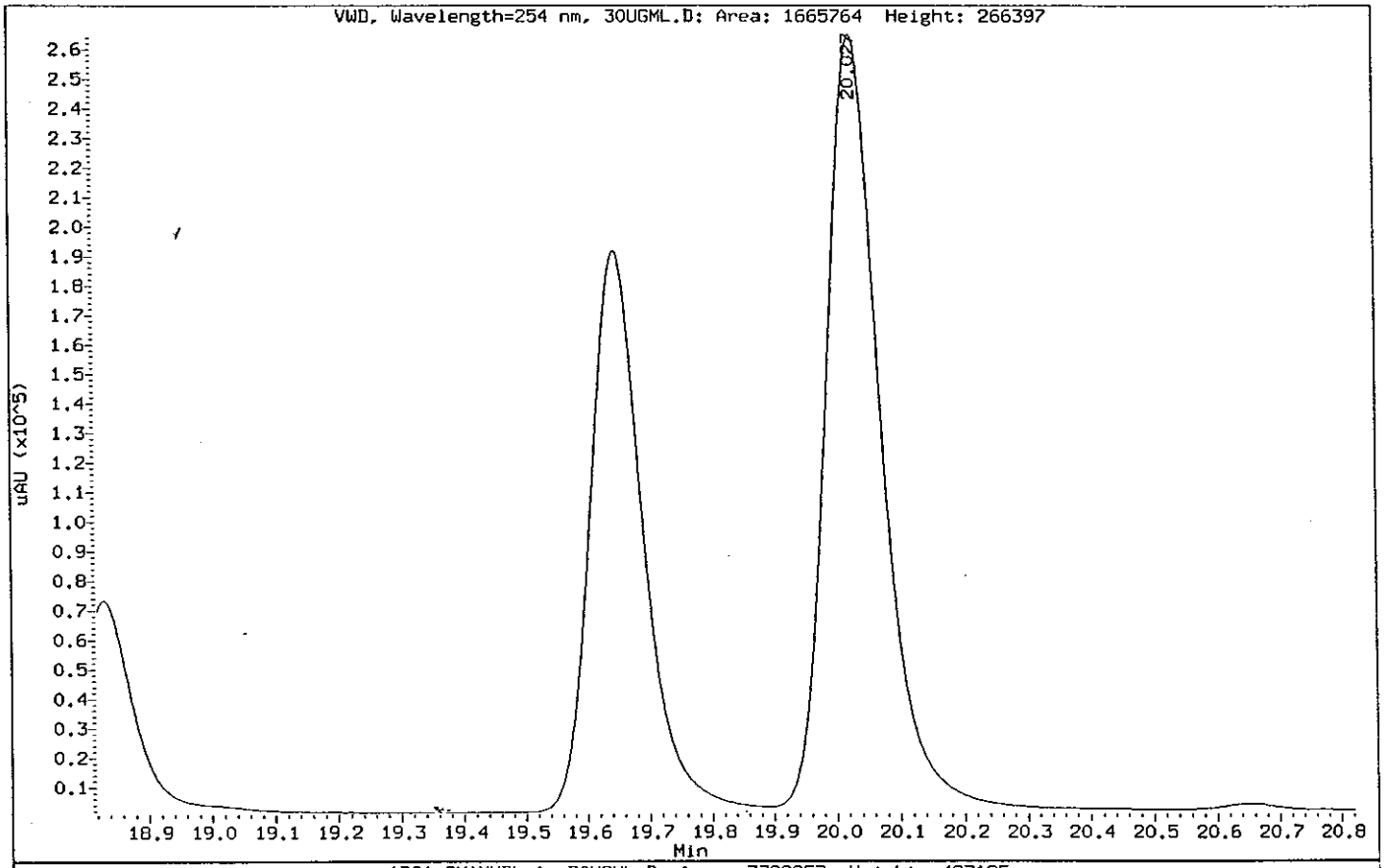
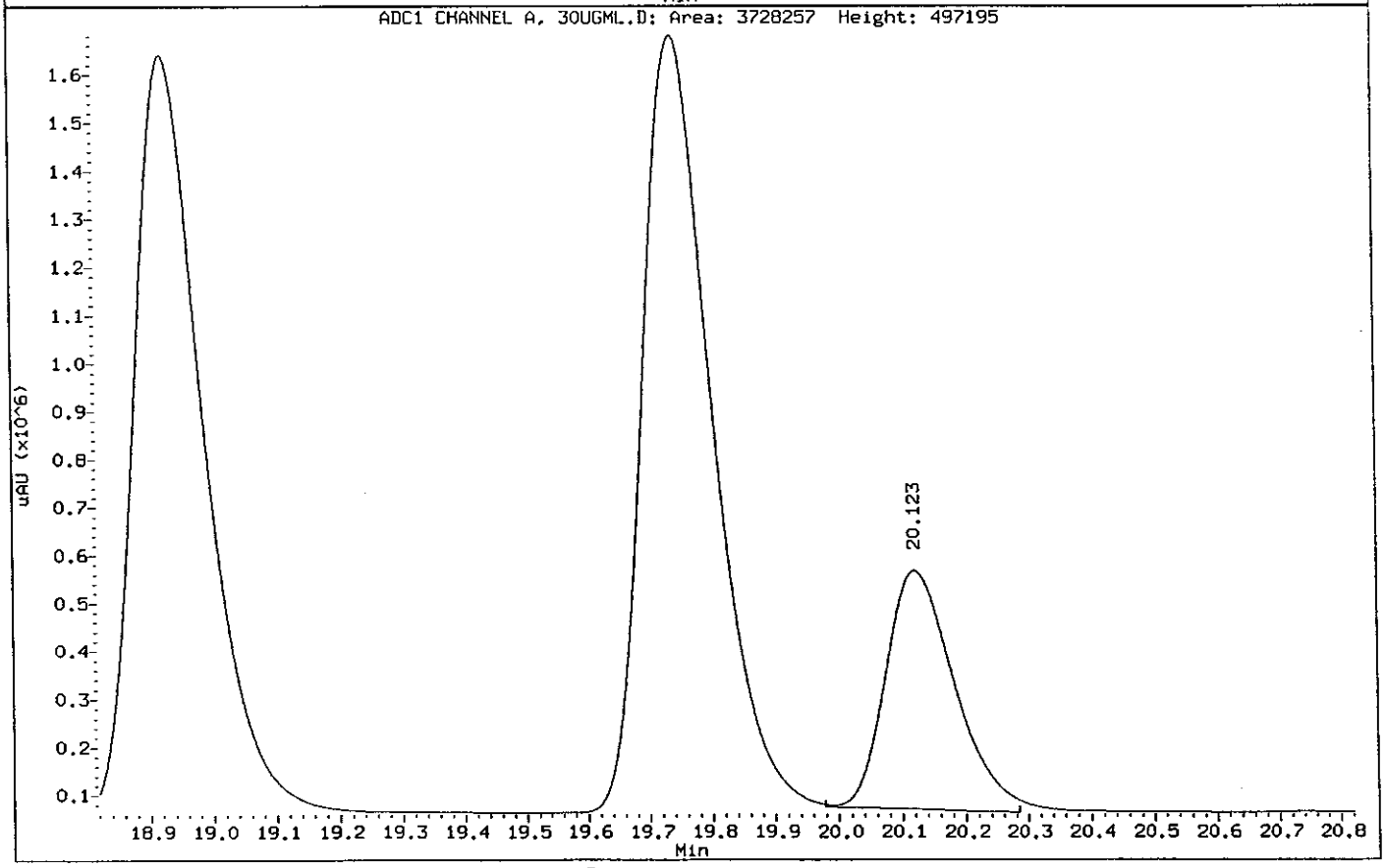
Injection Date: 28-OCT-2001 17:48
Instrument: slc02.i
Client Sample ID: 30st2850

Compound: Chrysene
CAS Number: 218-01-9





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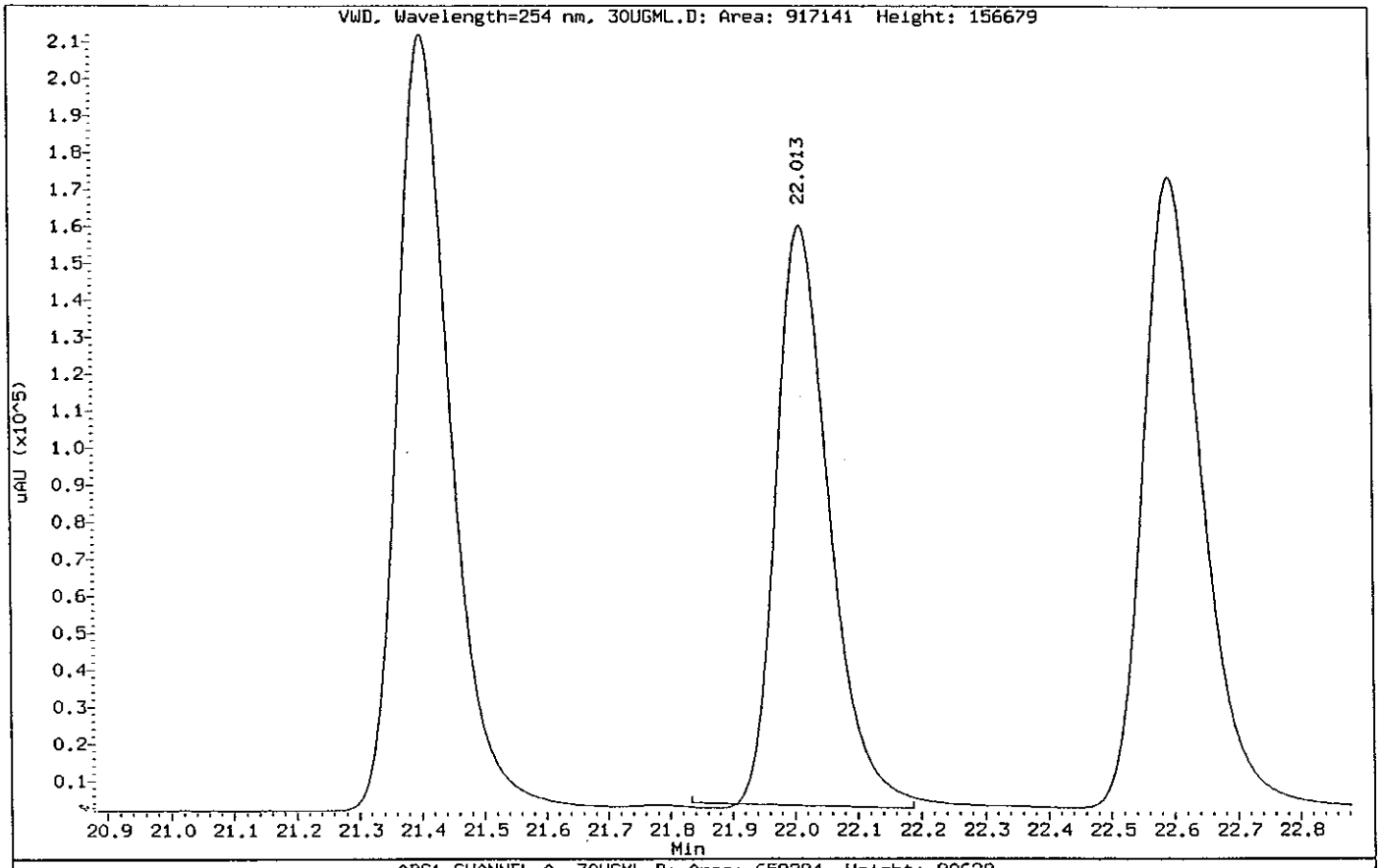
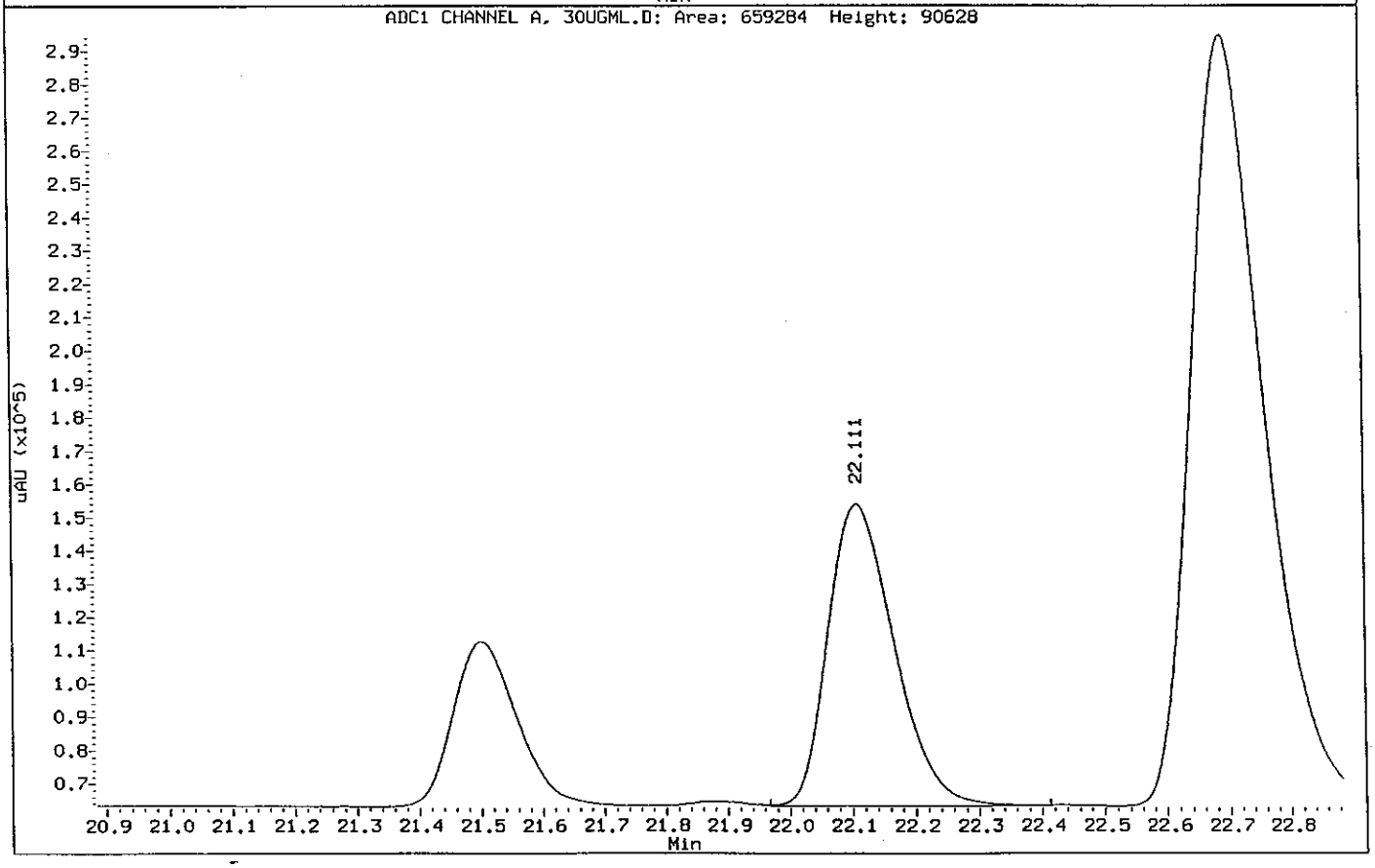
Injection Date: 28-OCT-2001 17:48
Instrument: slc02.i
Client Sample ID: 30st2850

Compound: Benzo(k)Fluoranthene
CAS Number: 207-08-9





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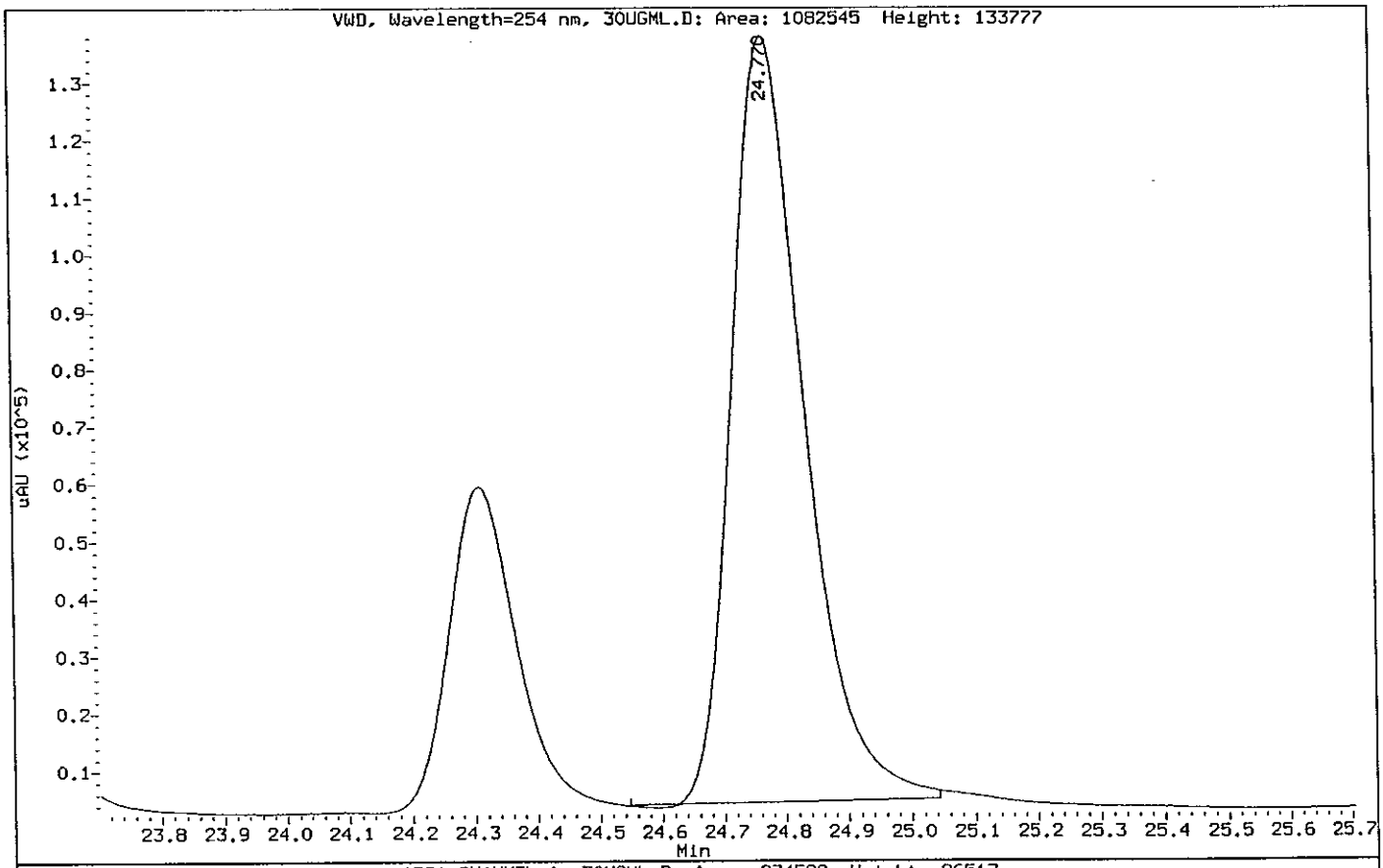
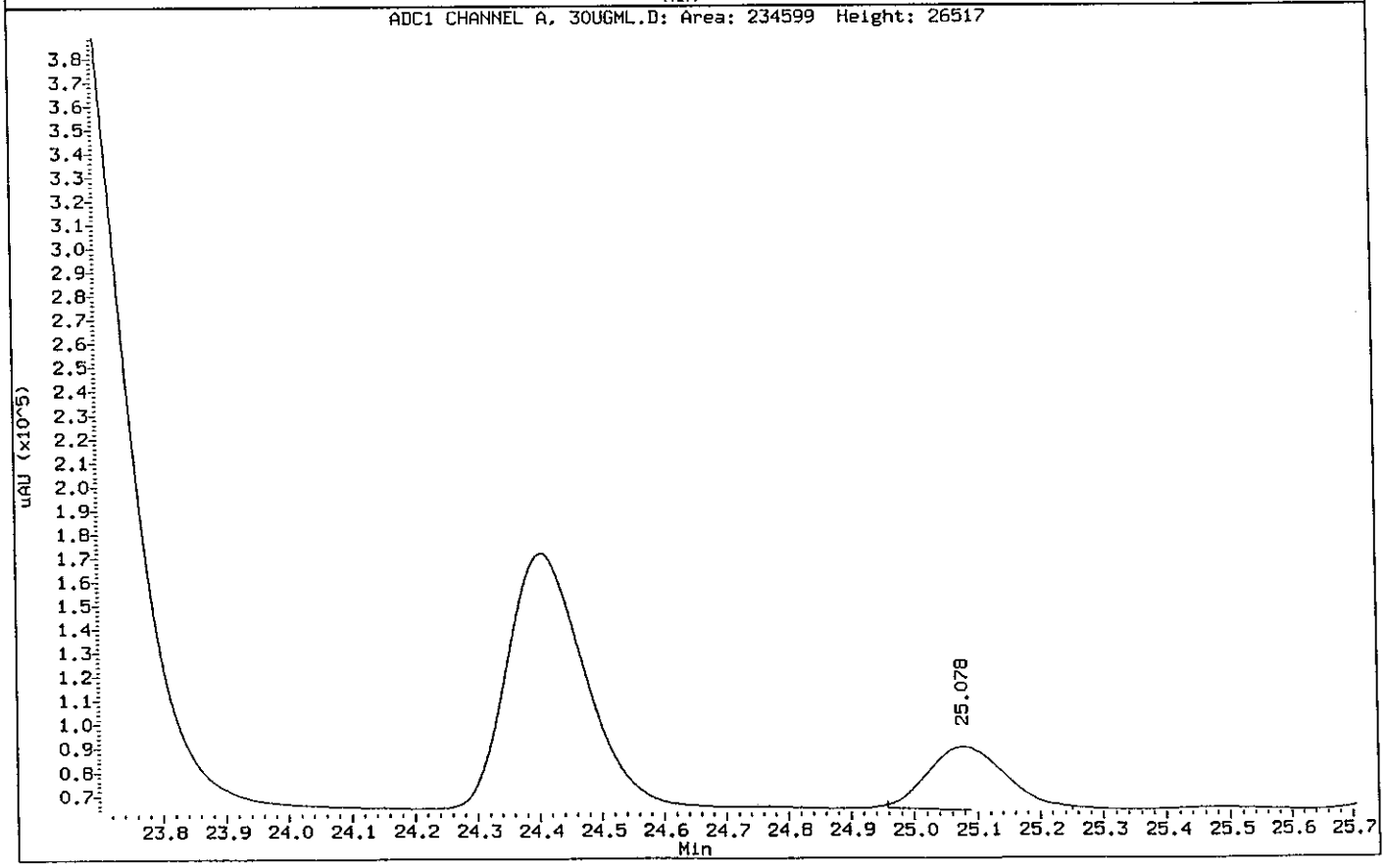
Injection Date: 28-OCT-2001 17:48
Instrument: slc02.i
Client Sample ID: 30st2850

Compound: Indeno(123cd)Pyrene
CAS Number: 193-39-5





PEL Laboratories

Data file : \\SVHPLC\ee\chem\slc02.i\recal1028s\20UGML.D
Lab Smp Id: 20st2851 Client Smp ID: 20st2851
Inj Date : 28-OCT-2001 18:42
Operator : rood Inst ID: slc02.i
Smp Info : 20st2851
Misc Info :
Comment :
Method : \\SVHPLC\ee\chem\slc02.i\recal1028s\8310S.m
Meth Date : 02-Nov-2001 08:37 jdonnelly Quant Type: ISTD
Cal Date : 28-OCT-2001 18:42 Cal File: 20UGML.D
Als bottle: 2 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.04 Sample Matrix: SOIL
Processing Host: SVHPLC

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

					AMOUNTS CAL-AMT	ON-COL		
RT	EXP RT	REL RT	SIGNAL	RESPONSE	(ug/ml)	(ug/ml)	TARGET RANGE	RATIO
* 1 Carbazole (ISTD)						CAS #: 86-74-8		
11.420	10.610	(1.000)	VWD1A	236973			80.00- 120.00	100.00(M)
11.510	10.610	(1.008)	ADC1A	1954676	10.0000		652.03- 978.05	824.85
2 Naphthalene						CAS #: 91-20-3		
12.410	11.770	(1.087)	VWD1A	108156	20.0000	19.5	80.00- 120.00	100.00(M)
12.500	11.770	(1.095)	ADC1A	129966	20.0000	20.4	82.40- 123.60	120.17
3 Acenaphthylene						CAS #: 208-96-8		
13.550	13.013	(1.187)	VWD1A	79479	20.0000	19.8		(M)
4 1-Methyl naphthalene						CAS #: 90-12-0		
14.130	13.633	(1.237)	VWD1A	63669	20.0000	19.4	80.00- 120.00	100.00
14.218	13.633	(1.245)	ADC1A	264842	20.0000	20.4	0.39- 0.59	415.97

RT	EXP RT	REL RT	SIGNAL	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
5 2-Methyl naphthalene						CAS #: 91-57-6		
14.443	13.973	(1.265)	VWD1A	89887	20.0000	19.7	80.00- 120.00	100.00
14.531	13.973	(1.273)	ADC1A	230857	20.0000	20.6	191.55- 287.32	256.83
6 Acenaphthene						CAS #: 83-32-9		
14.760	14.310	(1.292)	VWD1A	41729	20.0000	20.2	80.00- 120.00	100.00
14.850	14.310	(1.300)	ADC1A	522186	20.0000	19.8	964.12-1446.17	1251.37
7 Fluorene						CAS #: 86-73-7		
15.103	14.680	(1.323)	VWD1A	489450	20.0000	20.0	80.00- 120.00	100.00
15.195	14.680	(1.331)	ADC1A	62427	20.0000	21.2	9.06- 13.59	12.75
8 Phenanthrene						CAS #: 85-01-8		
15.883	15.500	(1.391)	VWD1A	1369908	20.0000	20.2	80.00- 120.00	100.00
15.973	15.500	(1.399)	ADC1A	1404797	20.0000	20.3	78.58- 117.87	102.55
9 Anthracene						CAS #: 120-12-7		
16.573	16.223	(1.451)	VWD1A	2866245			80.00- 120.00	100.00
16.666	16.223	(1.459)	ADC1A	202090	20.0000	20.5	5.00- 7.50	7.05
10 Fluoranthene						CAS #: 206-44-0		
17.383	17.066	(1.522)	VWD1A	327538	20.0000	20.0	80.00- 120.00	100.00
17.475	17.066	(1.530)	ADC1A	28769			6.36- 9.54	8.78
11 Pyrene						CAS #: 129-00-0		
17.906	17.606	(1.568)	VWD1A	253759	20.0000	19.6	80.00- 120.00	100.00(M)
18.003	17.606	(1.576)	ADC1A	3747991	20.0000	20.5	935.91-1403.86	1476.99
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.833	18.593	(1.649)	VWD1A	279215	20.0000	19.1	80.00- 120.00	100.00(M)
18.925	18.593	(1.657)	ADC1A	8119178	20.0000	20.2	2246.35-3369.53	2907.86
13 Benzo(a)Anthracene						CAS #: 56-55-3		
19.646	19.426	(1.720)	VWD1A	764630	20.0000	19.8	80.00- 120.00	100.00
19.741	19.426	(1.729)	ADC1A	8774930	20.0000	20.4	881.58-1322.37	1147.60
14 Chrysene						CAS #: 218-01-9		
20.030	19.820	(1.754)	VWD1A	1094582	20.0000	19.8	80.00- 120.00	100.00
20.125	19.820	(1.762)	ADC1A	2708010	20.0000	20.5	190.14- 285.21	247.40
15 Benzo(b)Fluoranthene						CAS #: 205-99-2		
21.413	21.253	(1.875)	VWD1A	855725	20.0000	20.1	80.00- 120.00	100.00
21.508	21.253	(1.883)	ADC1A	234519	20.0000	20.0	20.85- 31.28	27.41
16 Benzo(k)Fluoranthene						CAS #: 207-08-9		
22.023	21.883	(1.928)	VWD1A	644276	20.0000	20.1	80.00- 120.00	100.00

RT	EXP RT	REL RT	SIGNAL	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
16 Benzo(k)Fluoranthene (continued)								
22.118	21.883	(1.937)	ADC1A	442251	20.0000	20.1	52.76- 79.15	68.64
17 Benzo(a)pyrene						CAS #: 50-32-8		
22.606	22.476	(1.980)	VWD1A	756510	20.0000	20.0	80.00- 120.00	100.00
22.703	22.476	(1.988)	ADC1A	1296241	20.0000	20.1	138.13- 207.19	171.34
18 Dibenz(ah)Anthracene						CAS #: 53-70-3		
23.583	23.493	(2.065)	VWD1A	167585	20.0000	19.6	80.00- 120.00	100.00
23.681	23.493	(2.074)	ADC1A	2114892	20.0000	20.4	949.04-1423.56	1261.98
19 Benzo(ghi)Perylene						CAS #: 191-24-2		
24.306	24.226	(2.128)	VWD1A	291175	20.0000	19.8	80.00- 120.00	100.00
24.406	24.226	(2.137)	ADC1A	635006	20.0000	20.2	155.32- 232.98	218.08
20 Indeno(123cd)Pyrene						CAS #: 193-39-5		
24.766	24.703	(2.169)	VWD1A	732662	20.0000	19.6	80.00- 120.00	100.00(TM)
25.068	24.703	(2.195)	ADC1A	126045			0.00- 0.00	17.20

QC Flag Legend

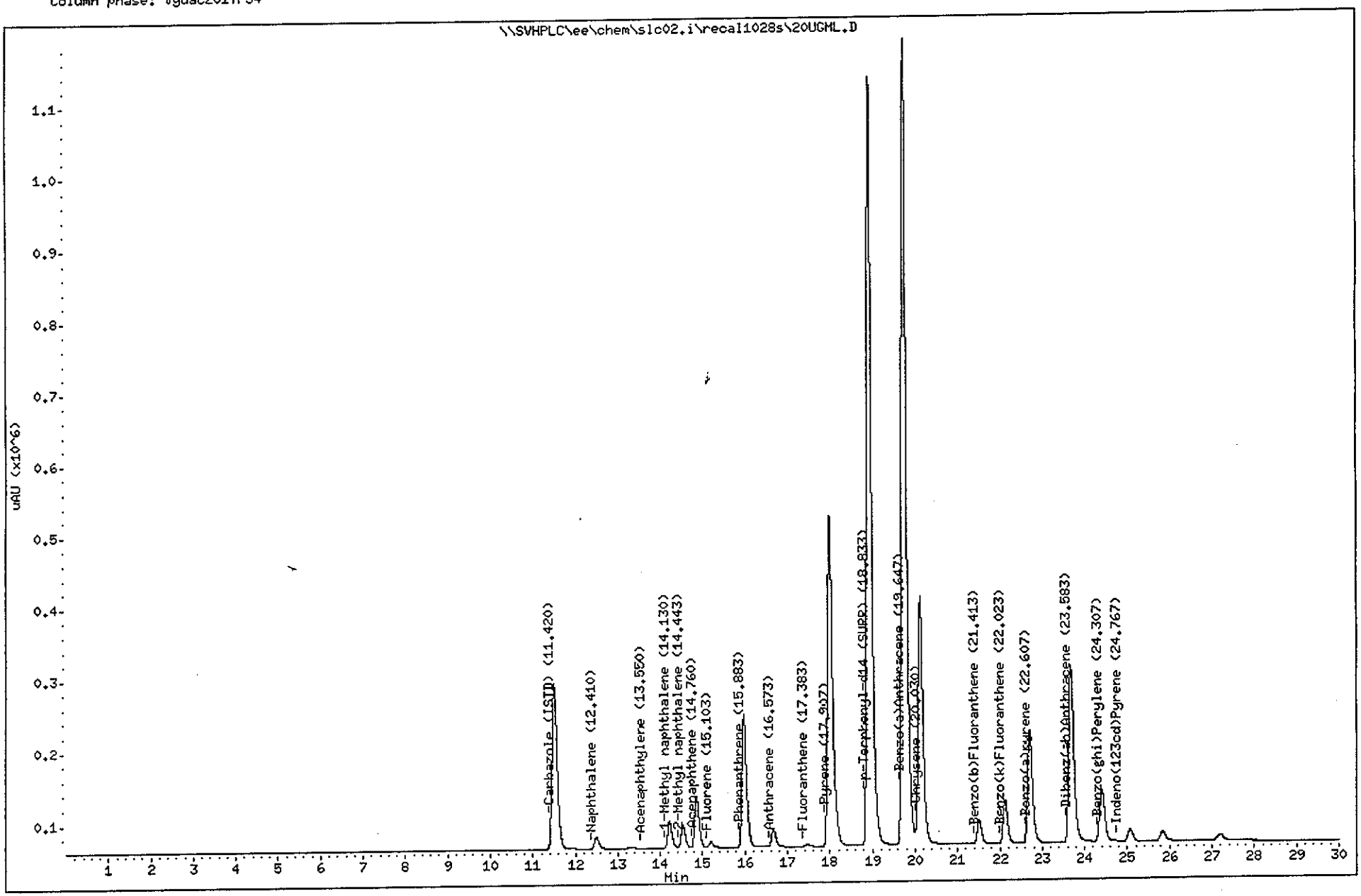
T - Target compound detected outside RT window.
M - Compound response manually integrated.

Data File: \\SVHPLC\ee\chem\slc02.i\recal1028s\20UGML.D
Date : 28-OCT-2001 18:42
Client ID: 20st2851
Sample Info: 20st2851

Instrument: slc02.i

Operator: rood
Column diameter: 4.60

Column phase: Vydac201TP54



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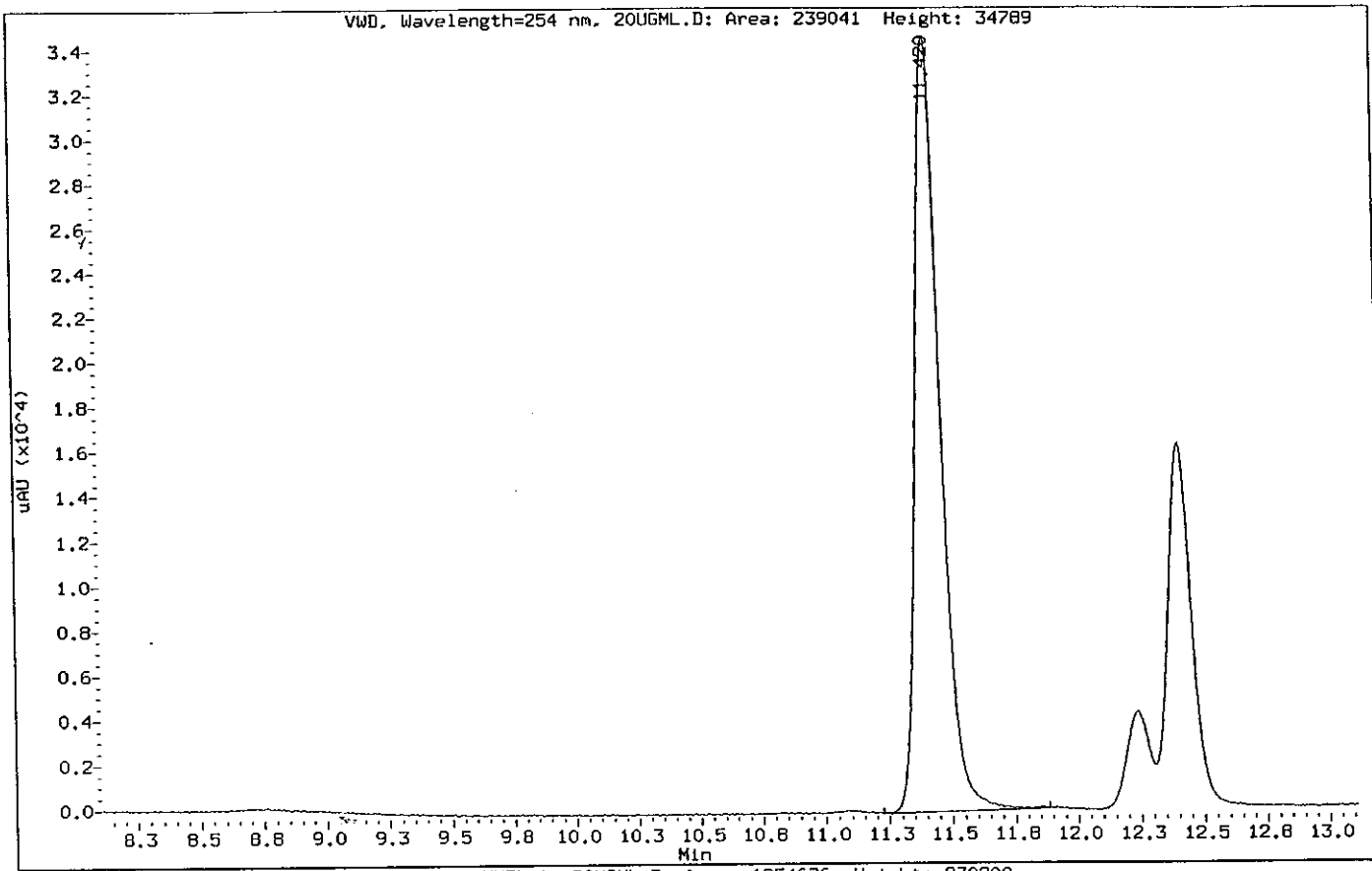
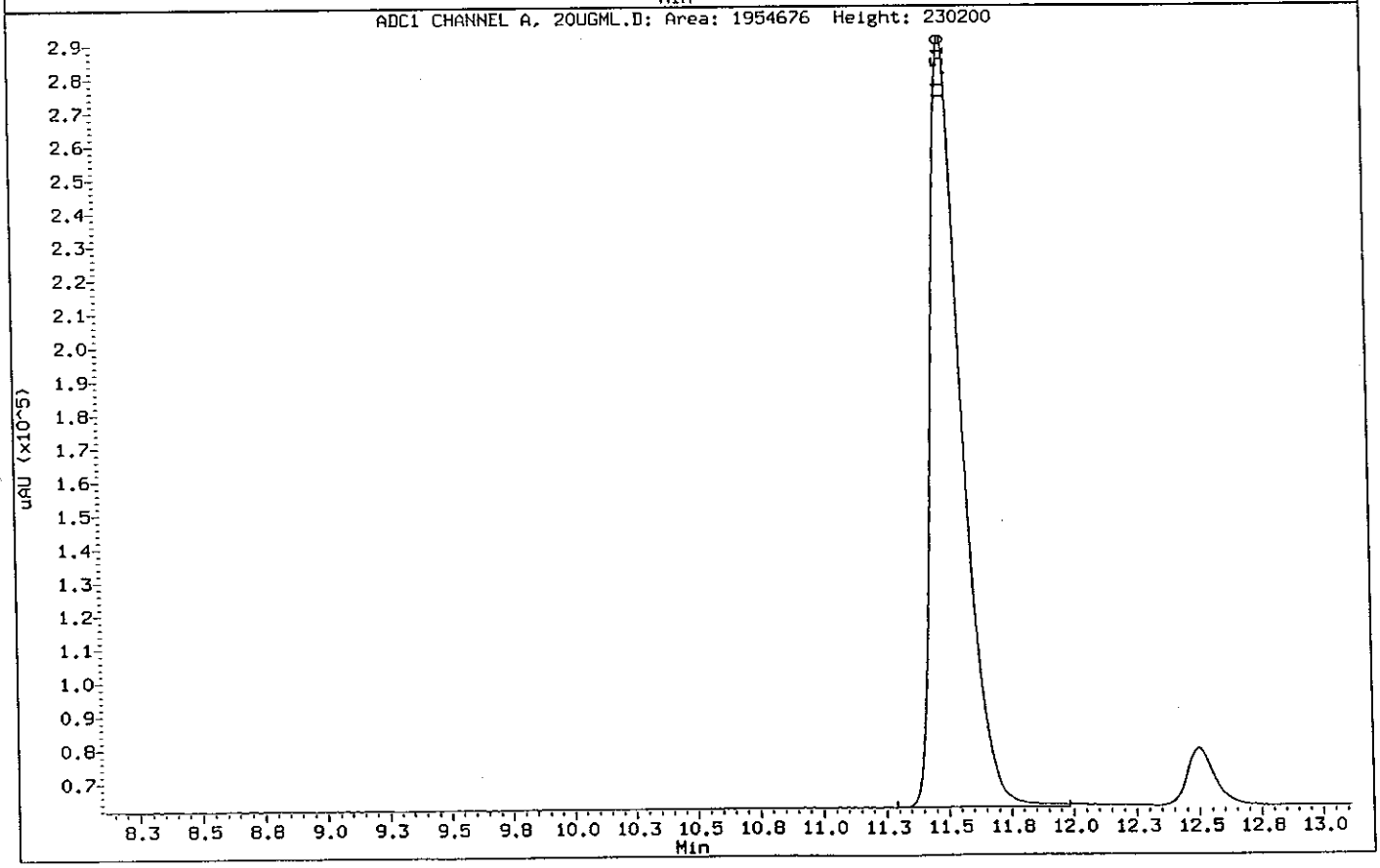
Injection Date: 28-OCT-2001 18:42
Instrument: slc02.i
Client Sample ID: 20st2851

Compound: Carbazole (ISTD)
CAS Number: 86-74-8





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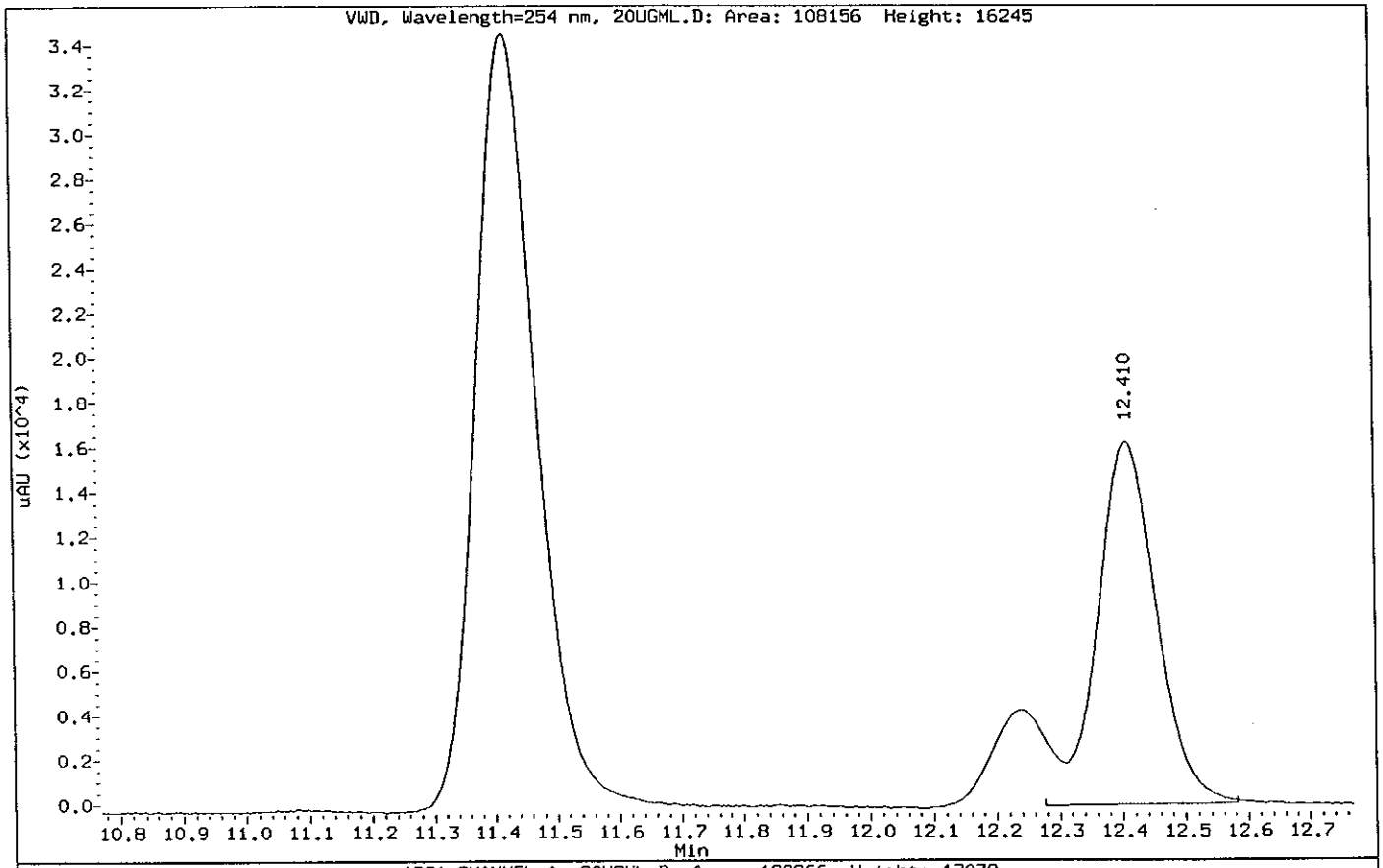
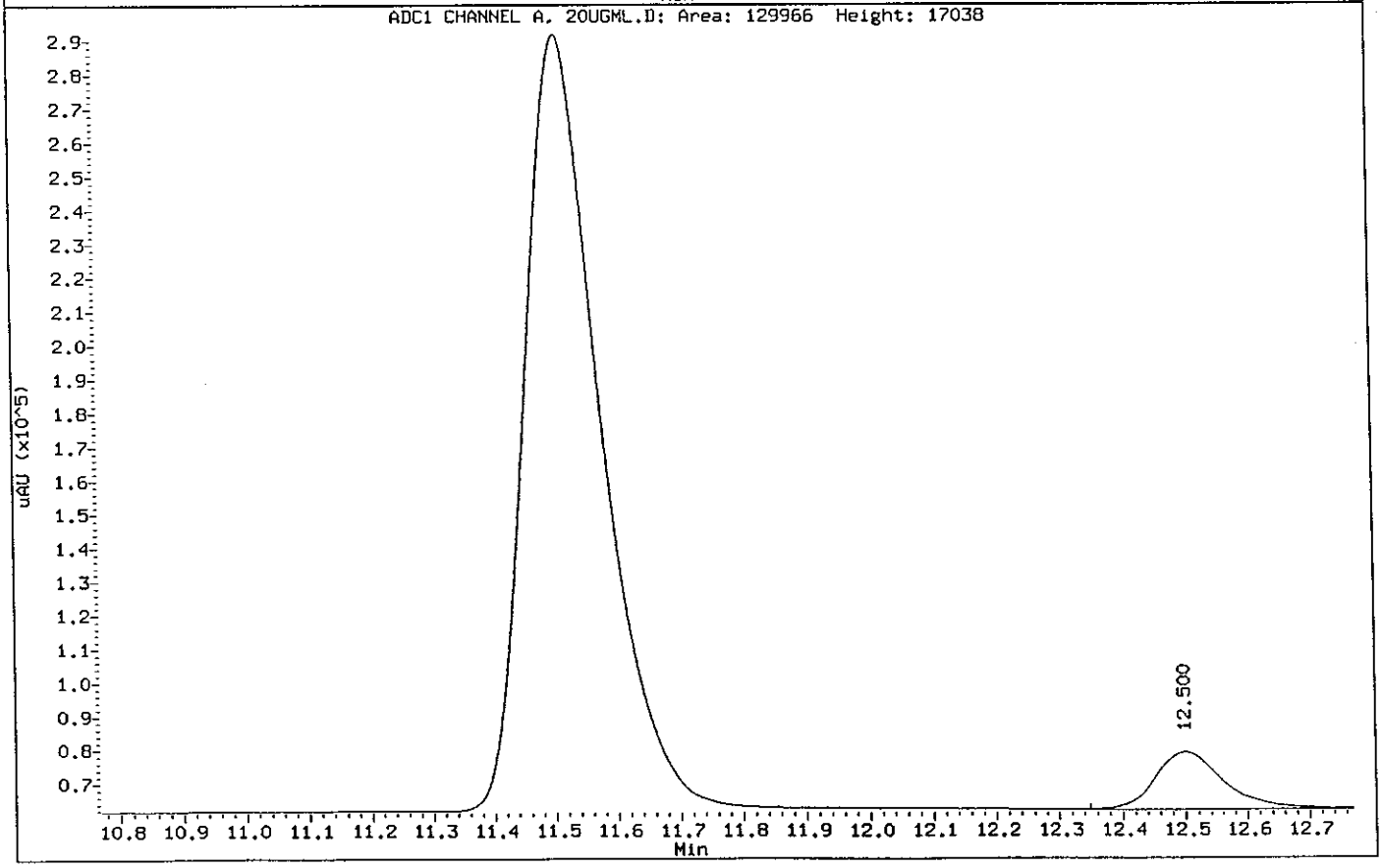
Instrument: slc02.i
Client Sample ID: 20st2851

Compound: Naphthalene
CAS Number: 91-20-3





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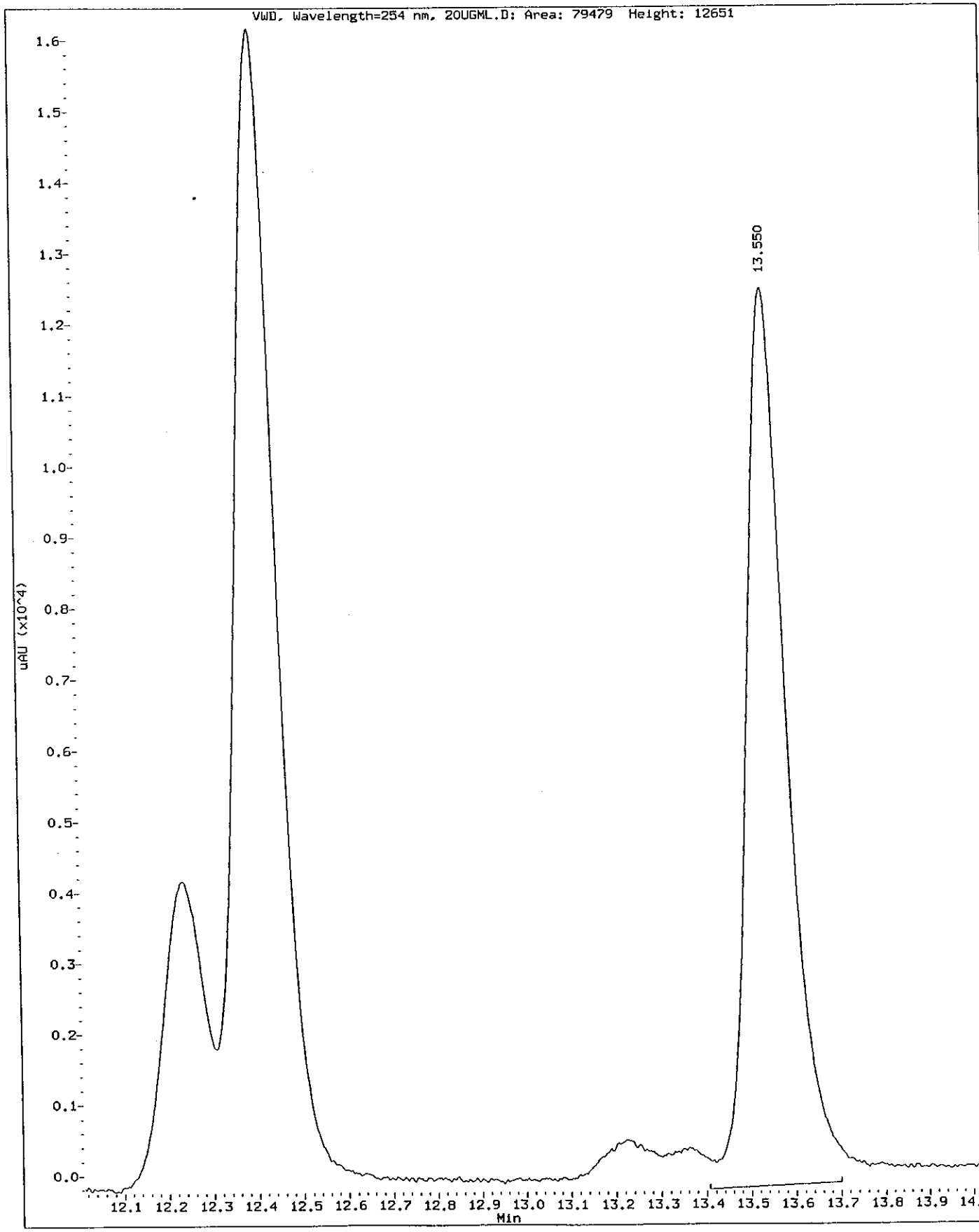
Instrument: slc02.i
Client Sample ID: 20st2851

Compound: Acenaphthylene
CAS Number: 208-96-8



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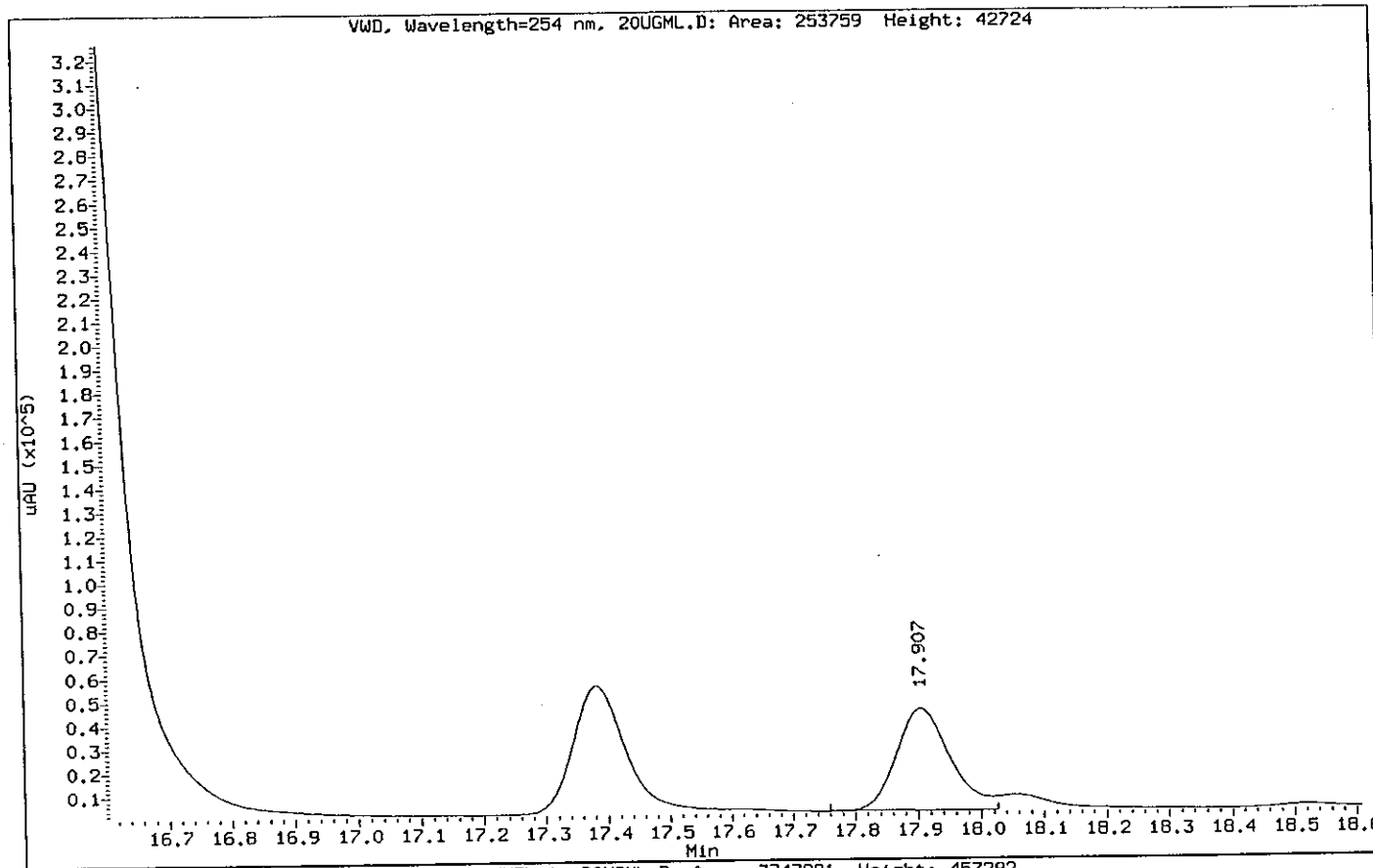
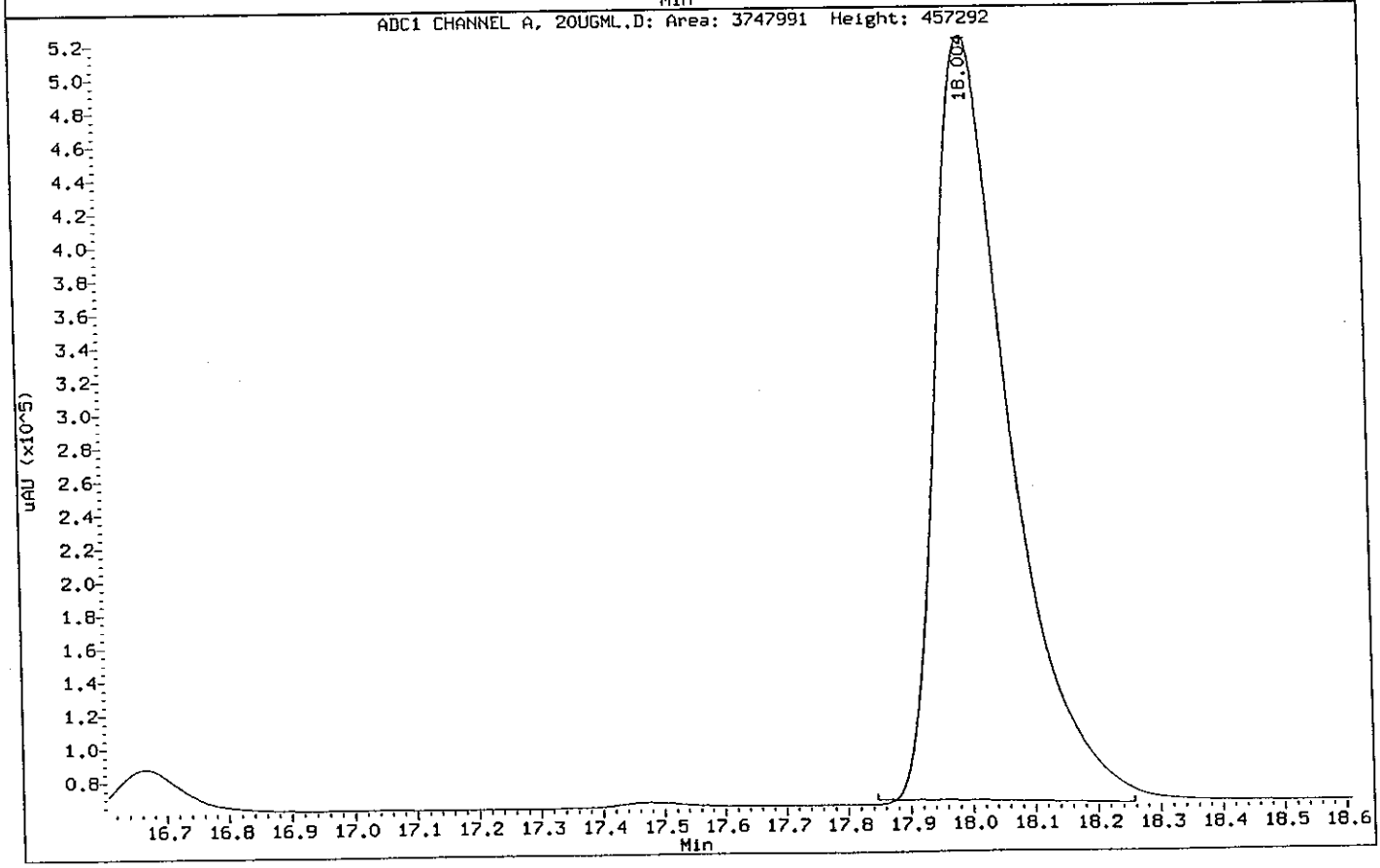
Instrument: slc02.i
Client Sample ID: 20st2851

Compound: Pyrene
CAS Number: 129-00-0





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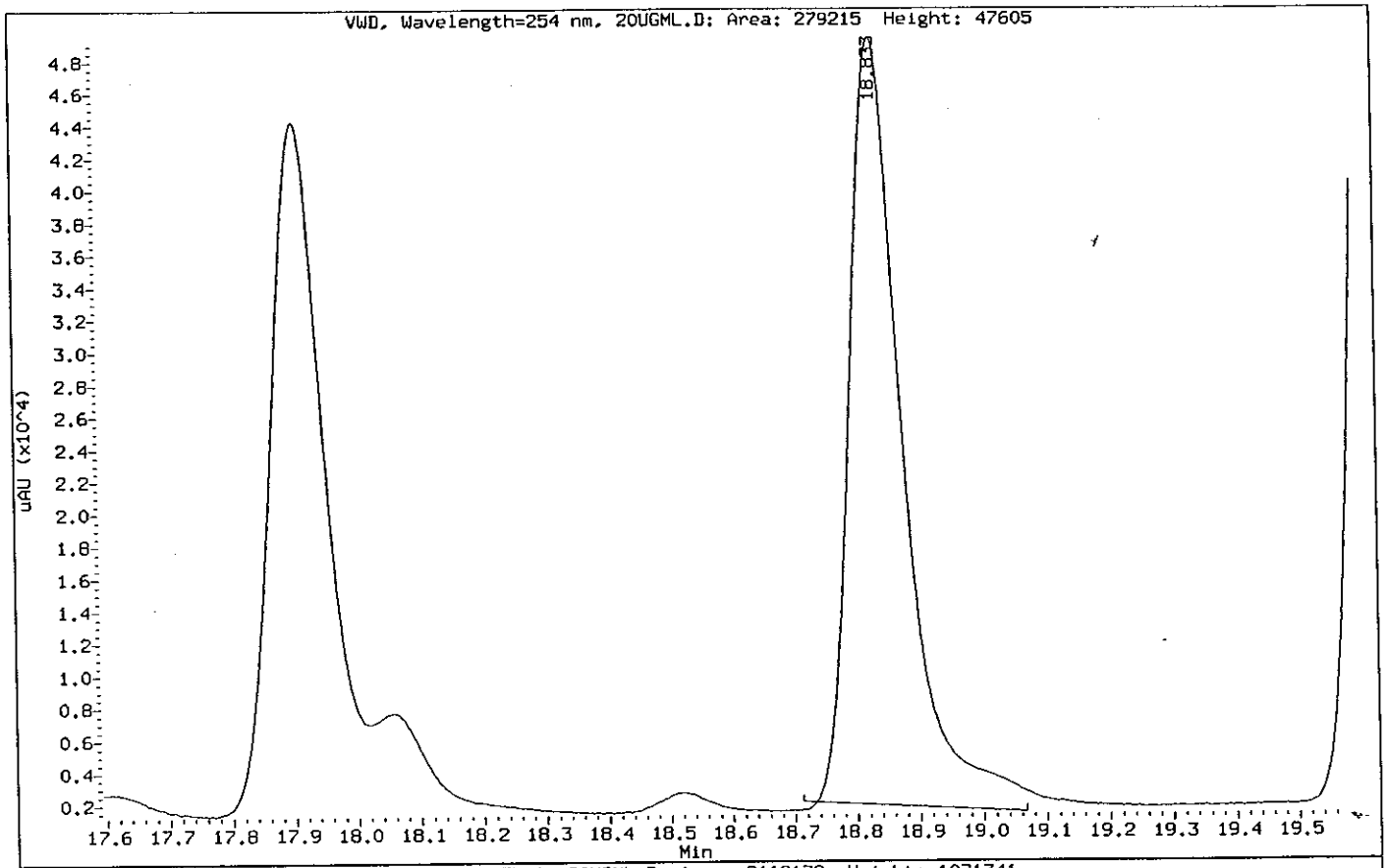
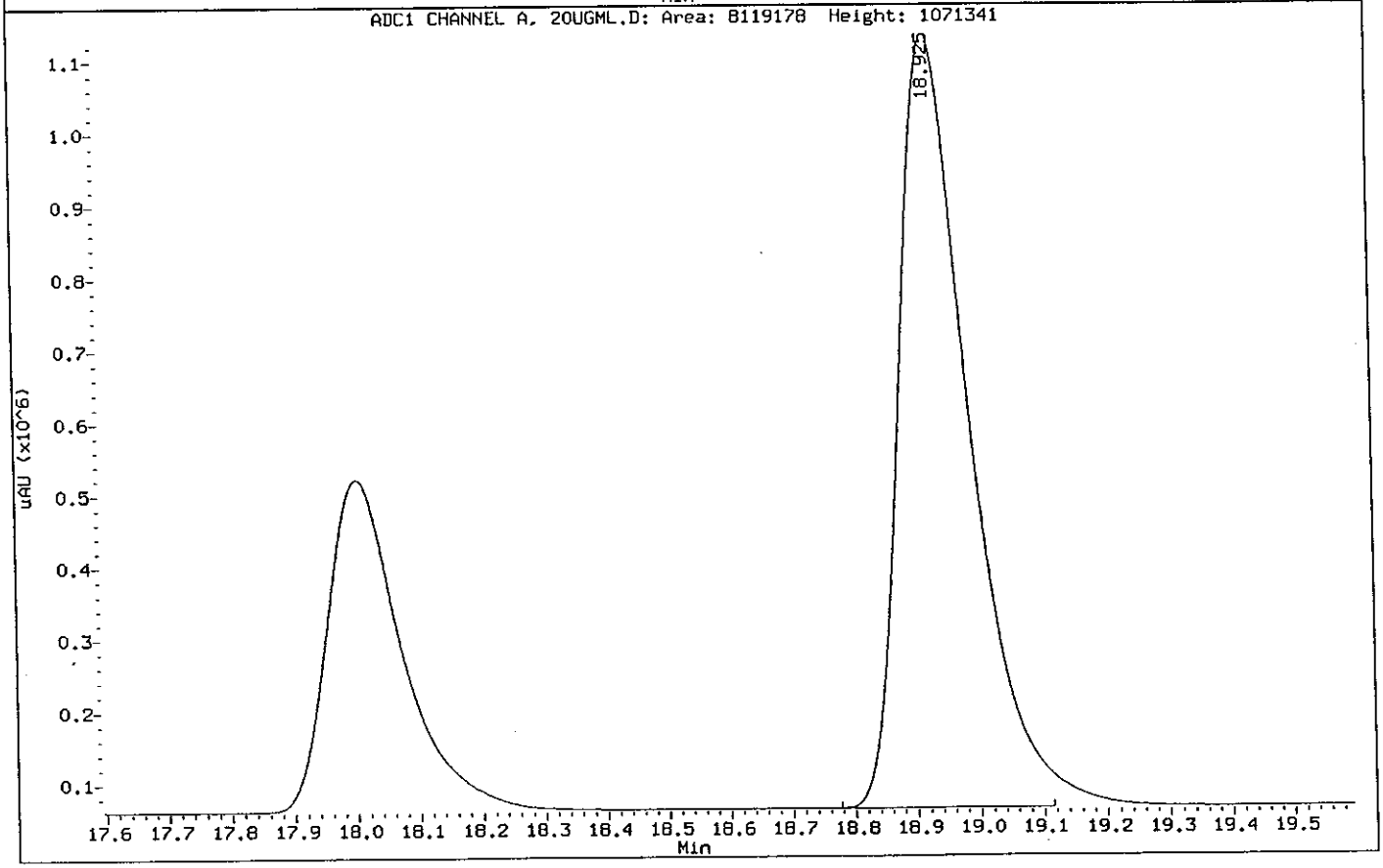
Injection Date: 28-OCT-2001 18:42
Instrument: slc02.i
Client Sample ID: 20st2851

Compound: p-Terphenyl-d14 (SURR)
CAS Number: 1718-51-0





JMD

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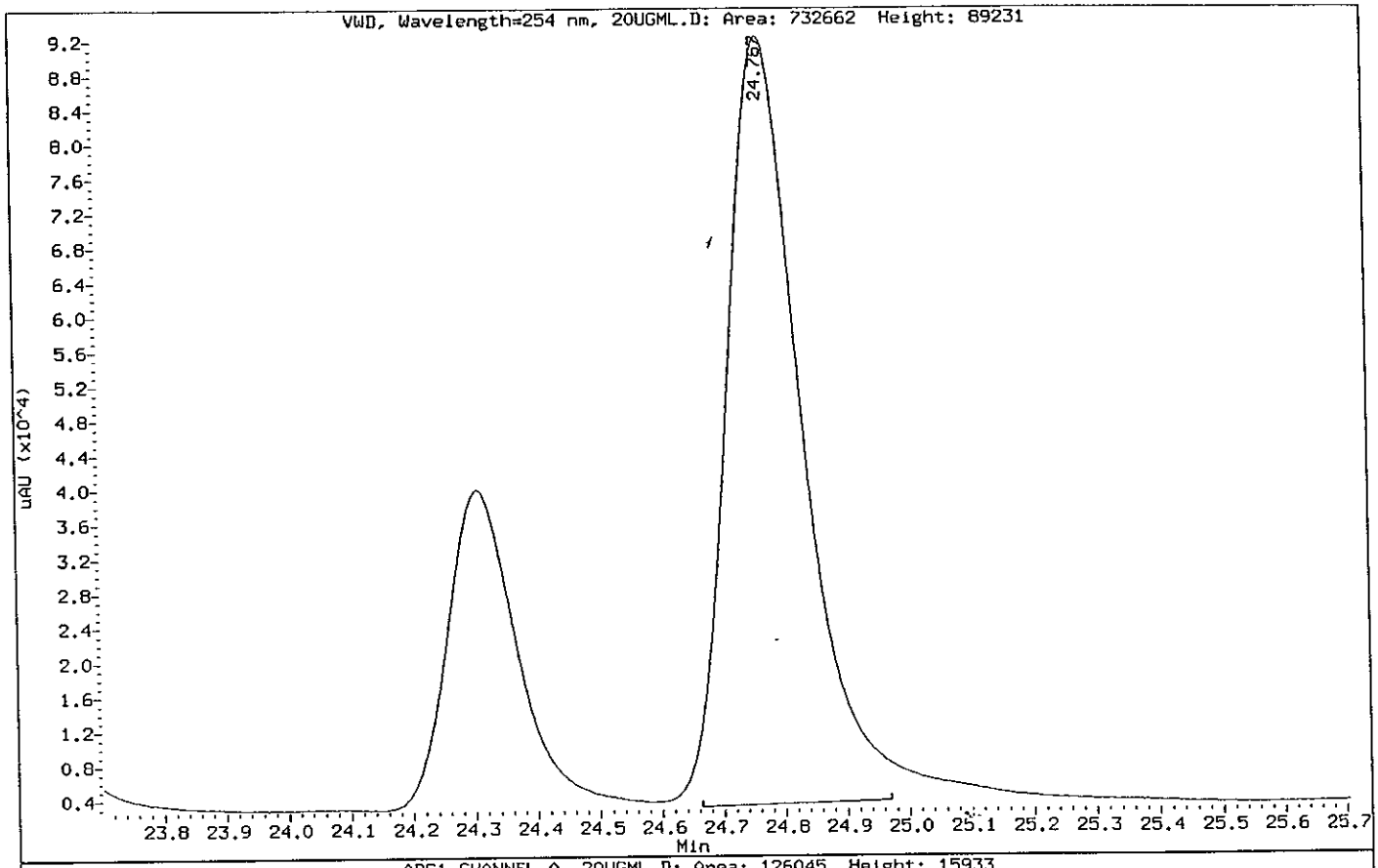
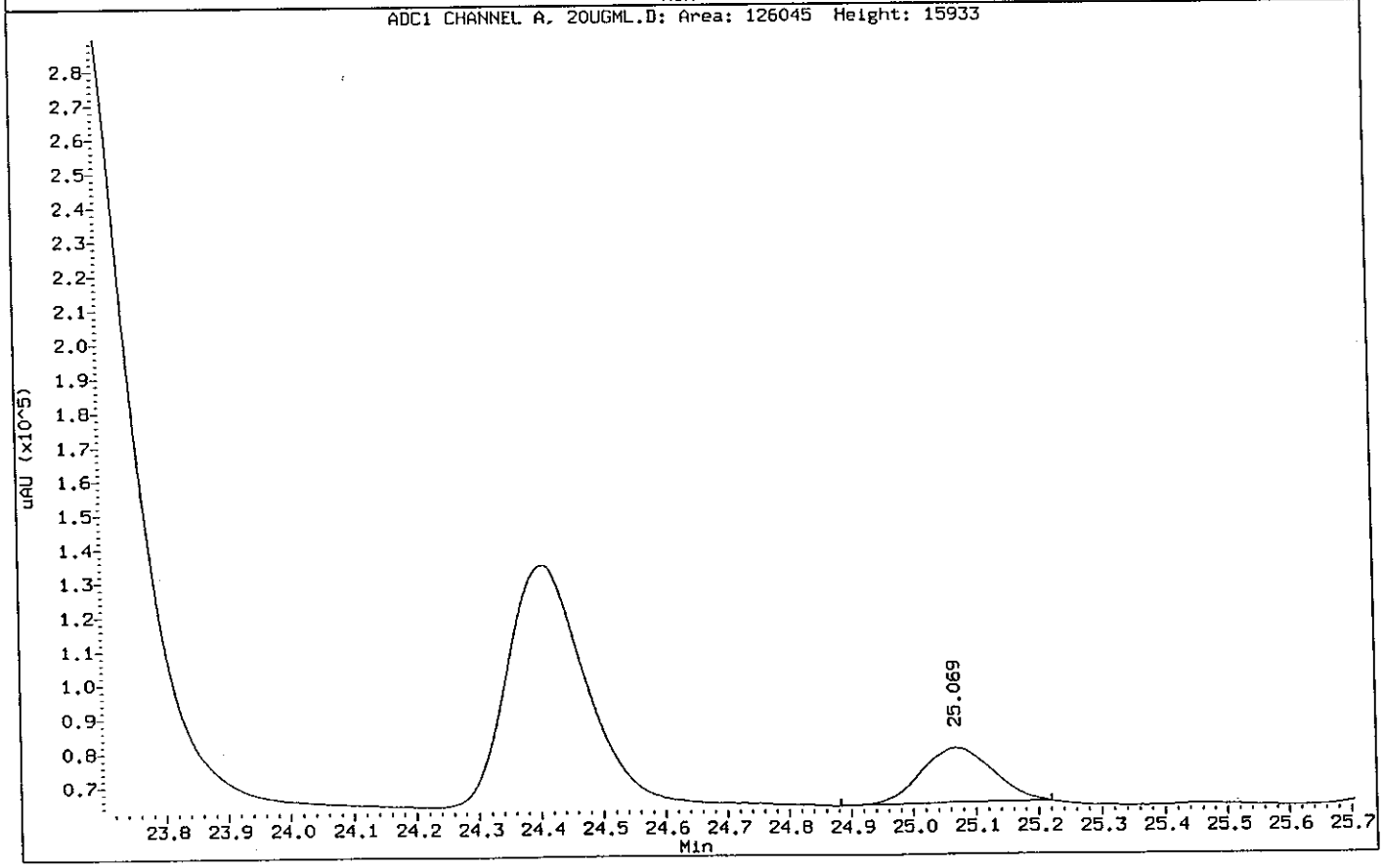
Injection Date: 28-OCT-2001 18:42
Instrument: slc02.i
Client Sample ID: 20st2851

Compound: Indeno(123cd)Pyrene
CAS Number: 193-39-5





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Data File: \\SVHPLC\ee\chem\slc02.i\recal1028s\10UGML.D
Report Date: 02-Nov-2001 08:38

PEL Laboratories

Data file : \\SVHPLC\ee\chem\slc02.i\recal1028s\10UGML.D
Lab Smp Id: 10st2853 Client Smp ID: 10st2853
Inj Date : 28-OCT-2001 19:17
Operator : rood Inst ID: slc02.i
Smp Info : 10st2853
Misc Info :
Comment :
Method : \\SVHPLC\ee\chem\slc02.i\recal1028s\8310S.m
Meth Date : 02-Nov-2001 08:37 jdonnelly Quant Type: ISTD
Cal Date : 28-OCT-2001 19:17 Cal File: 10UGML.D
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.04 Sample Matrix: SOIL
Processing Host: SVHPLC

Concentration Formula: Amt * DF * 1/((Ws*(1-(M/100)))/1000)*Vf

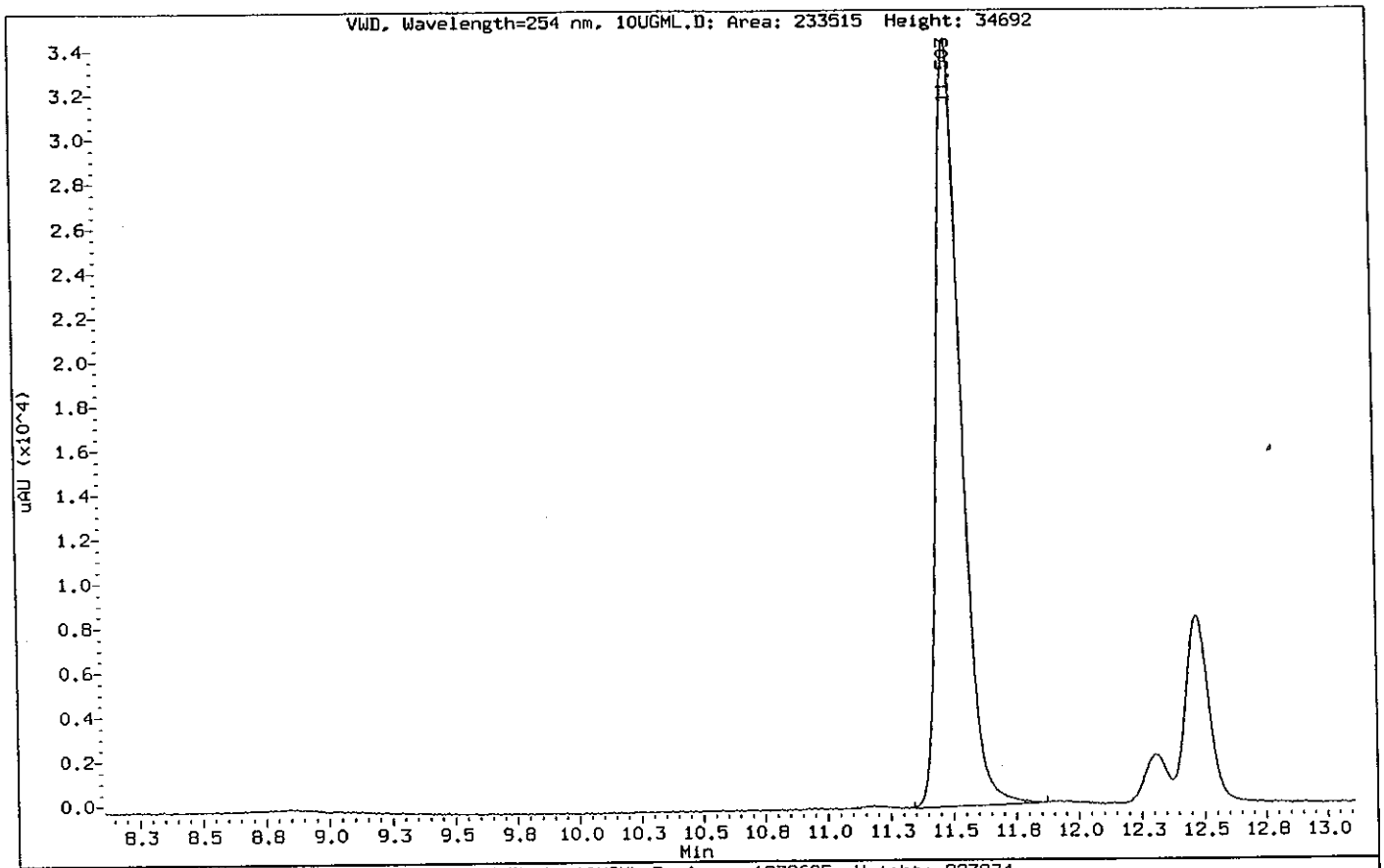
Name	Value	Description
DF	1.000	Dilution Factor
Ws	33.000	Extracted weight
M	0.000	% Moisture
Vf	1.000	Final Volume

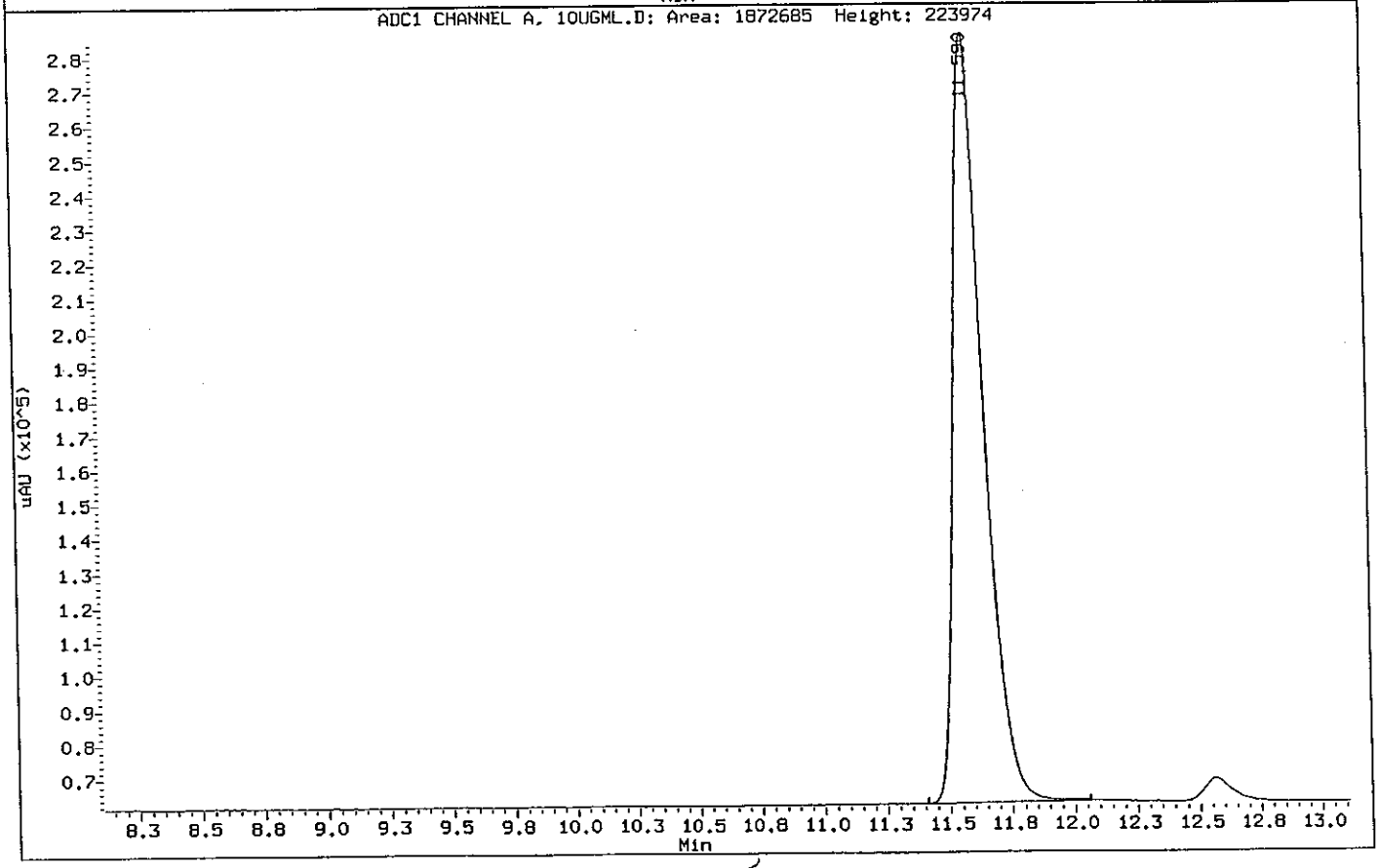
						AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
* 1 Carbazole (ISTD)								CAS #: 86-74-8	
11.503	10.610	(1.000)	VWD1A	229007				80.00- 120.00	100.00(M)
11.590	10.610	(1.008)	ADC1A	1875679	10.0000			652.03- 978.05	819.05
2 Naphthalene								CAS #: 91-20-3	
12.473	11.770	(1.084)	VWD1A	56220	10.0000		10.4	80.00- 120.00	100.00(M)
12.566	11.770	(1.092)	ADC1A	54954	10.0000		9.2	82.40- 123.60	97.75
3 Acenaphthylene								CAS #: 208-96-8	
13.600	13.013	(1.182)	VWD1A	40757	10.0000		10.4		
4 1-Methyl naphthalene								CAS #: 90-12-0	
14.173	13.633	(1.232)	VWD1A	33016	10.0000		10.4	80.00- 120.00	100.00
14.266	13.633	(1.240)	ADC1A	114016	10.0000		9.3	0.39- 0.59	345.34

RT	EXP RT	REL RT	SIGNAL	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
5 2-Methyl naphthalene						CAS #: 91-57-6			
14.486	13.973	(1.259)	VWD1A	46402	10.0000	10.4	80.00- 120.00	100.00	
14.578	13.973	(1.267)	ADC1A	99357	10.0000	9.4	191.55- 287.32	214.12	
6 Acenaphthene						CAS #: 83-32-9			
14.803	14.310	(1.287)	VWD1A	21342	10.0000	10.5	80.00- 120.00	100.00	
14.890	14.310	(1.294)	ADC1A	236968	10.0000	9.5	964.12-1446.17	1110.34	
7 Fluorene						CAS #: 86-73-7			
15.140	14.680	(1.316)	VWD1A	248095	10.0000	10.4	80.00- 120.00	100.00	
15.230	14.680	(1.324)	ADC1A	29741	10.0000	10.4	9.06- 13.59	11.99	
8 Phenanthrene						CAS #: 85-01-8			
15.913	15.500	(1.383)	VWD1A	668724	10.0000	10.2	80.00- 120.00	100.00	(M)
16.005	15.500	(1.391)	ADC1A	648594	10.0000	9.8	78.58- 117.87	96.99	
9 Anthracene						CAS #: 120-12-7			
16.600	16.223	(1.443)	VWD1A	1582923			80.00- 120.00	100.00	(M)
16.690	16.223	(1.451)	ADC1A	92939	10.0000	9.9	5.00- 7.50	5.87	
10 Fluoranthene						CAS #: 206-44-0			
17.400	17.066	(1.513)	VWD1A	164630	10.0000	10.4	80.00- 120.00	100.00	
17.346	17.066	(1.508)	ADC1A	84			6.36- 9.54	0.05	
11 Pyrene						CAS #: 129-00-0			
17.920	17.606	(1.558)	VWD1A	121230	10.0000	9.8	80.00- 120.00	100.00	(M)
18.015	17.606	(1.566)	ADC1A	1555055	10.0000	9.1	935.91-1403.86	1282.73	
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0			
18.836	18.593	(1.637)	VWD1A	148819	10.0000	10.5	80.00- 120.00	100.00	
18.930	18.593	(1.646)	ADC1A	4150202	10.0000	10.5	2246.35-3369.53	2788.76	
13 Benzo(a)Anthracene						CAS #: 56-55-3			
19.650	19.426	(1.708)	VWD1A	385927	10.0000	10.3	80.00- 120.00	100.00	
19.743	19.426	(1.716)	ADC1A	4272190	10.0000	10.2	881.58-1322.37	1106.99	
14 Chrysene						CAS #: 218-01-9			
20.033	19.820	(1.742)	VWD1A	561933	10.0000	10.4	80.00- 120.00	100.00	(M)
20.130	19.820	(1.750)	ADC1A	1282590	10.0000	10.1	190.14- 285.21	228.25	
15 Benzo(b)Fluoranthene						CAS #: 205-99-2			
21.410	21.253	(1.861)	VWD1A	433975	10.0000	10.4	80.00- 120.00	100.00	(M)
21.503	21.253	(1.869)	ADC1A	98764	10.0000	9.0	20.85- 31.28	22.76	
16 Benzo(k)Fluoranthene						CAS #: 207-08-9			
22.020	21.883	(1.914)	VWD1A	324495	10.0000	10.4	80.00- 120.00	100.00	

Data File: \\SVHPLC\ee\chem\slc02.i\recal1028s\10UGML.D
Injection Date: 28-OCT-2001 19:17
Instrument: slc02.i
Client Sample ID: 10st2853

Compound: Carbazole (ISTD)
CAS Number: 86-74-8





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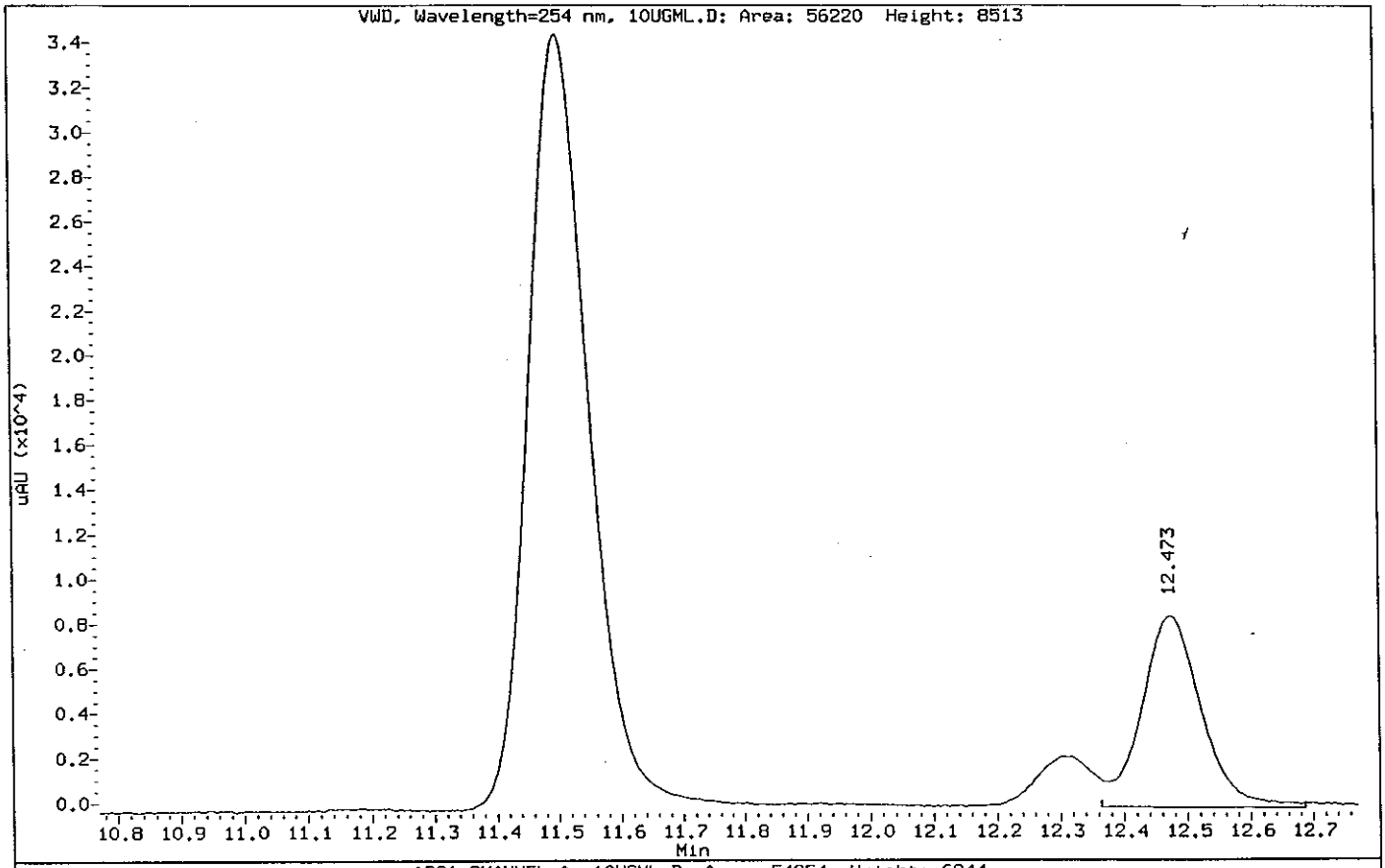
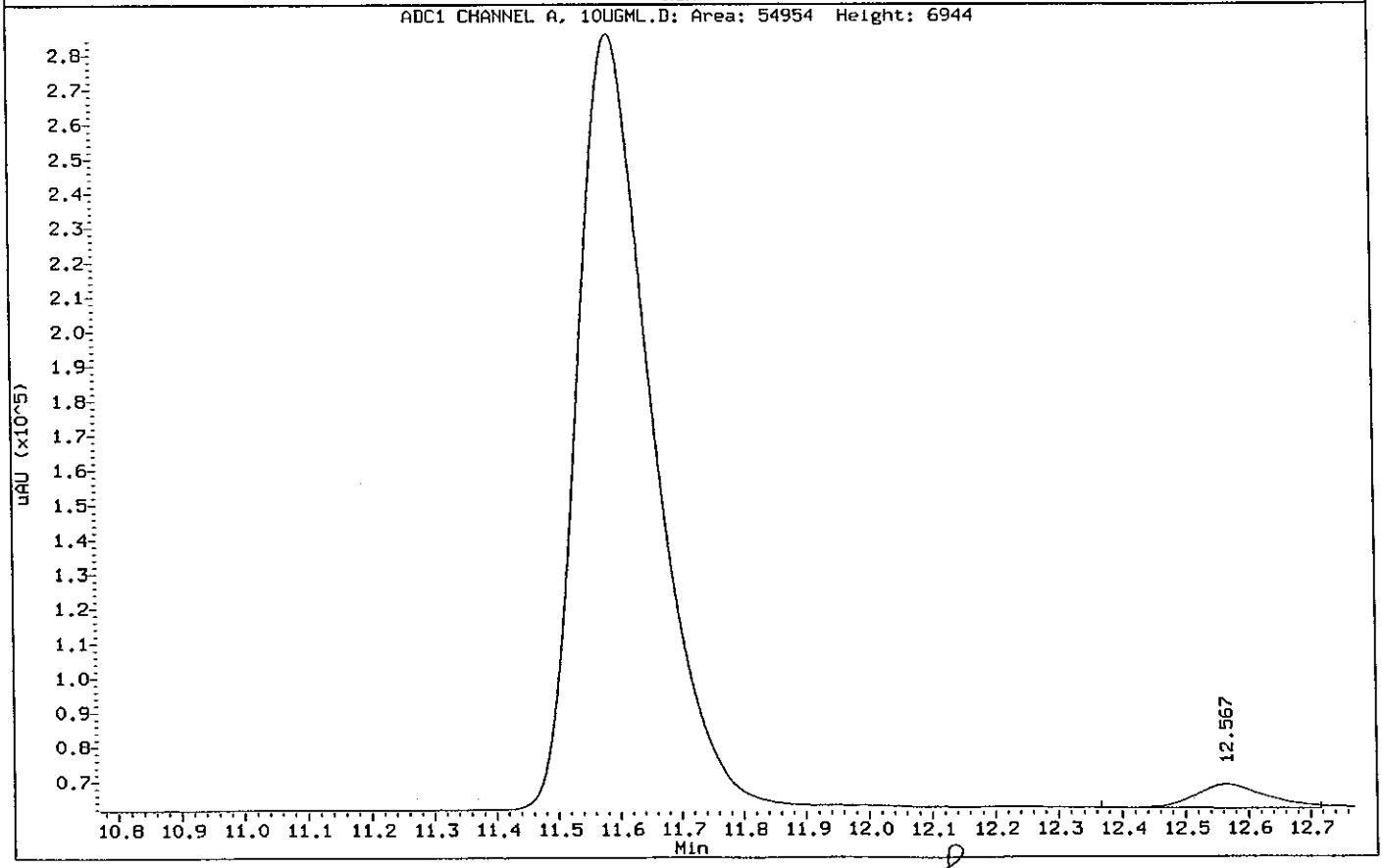
Injection Date: 28-OCT-2001 19:17
Instrument: slc02.i
Client Sample ID: 10st2853

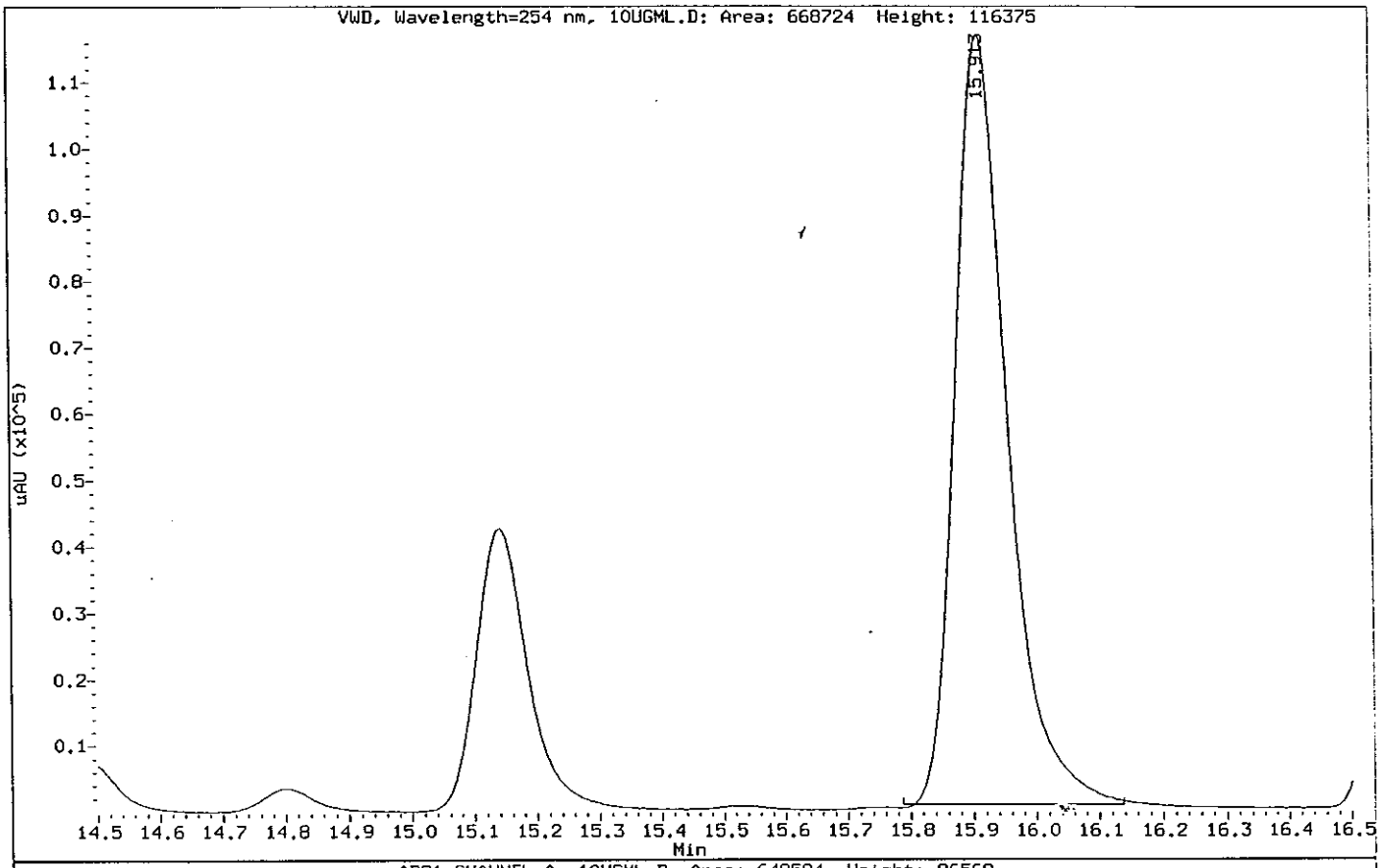
Compound: Naphthalene
CAS Number: 91-20-3

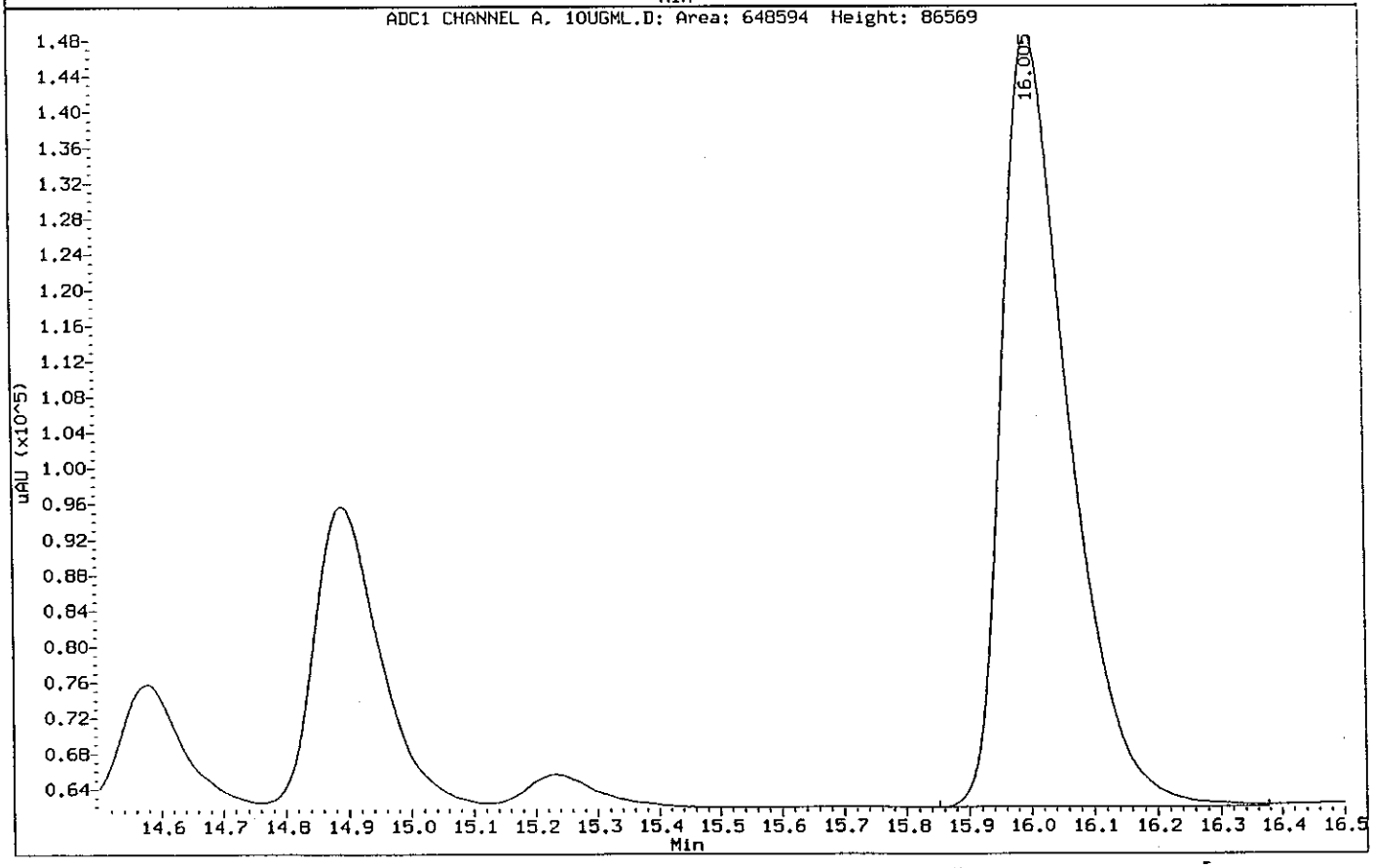




Data File: \\SVHPLC\ee\chem\slc02.i\recal1028s\10UGML.D
Injection Date: 28-OCT-2001 19:17
Instrument: slc02.i
Client Sample ID: 10st2853

Compound: Phenanthrene
CAS Number: 85-01-8





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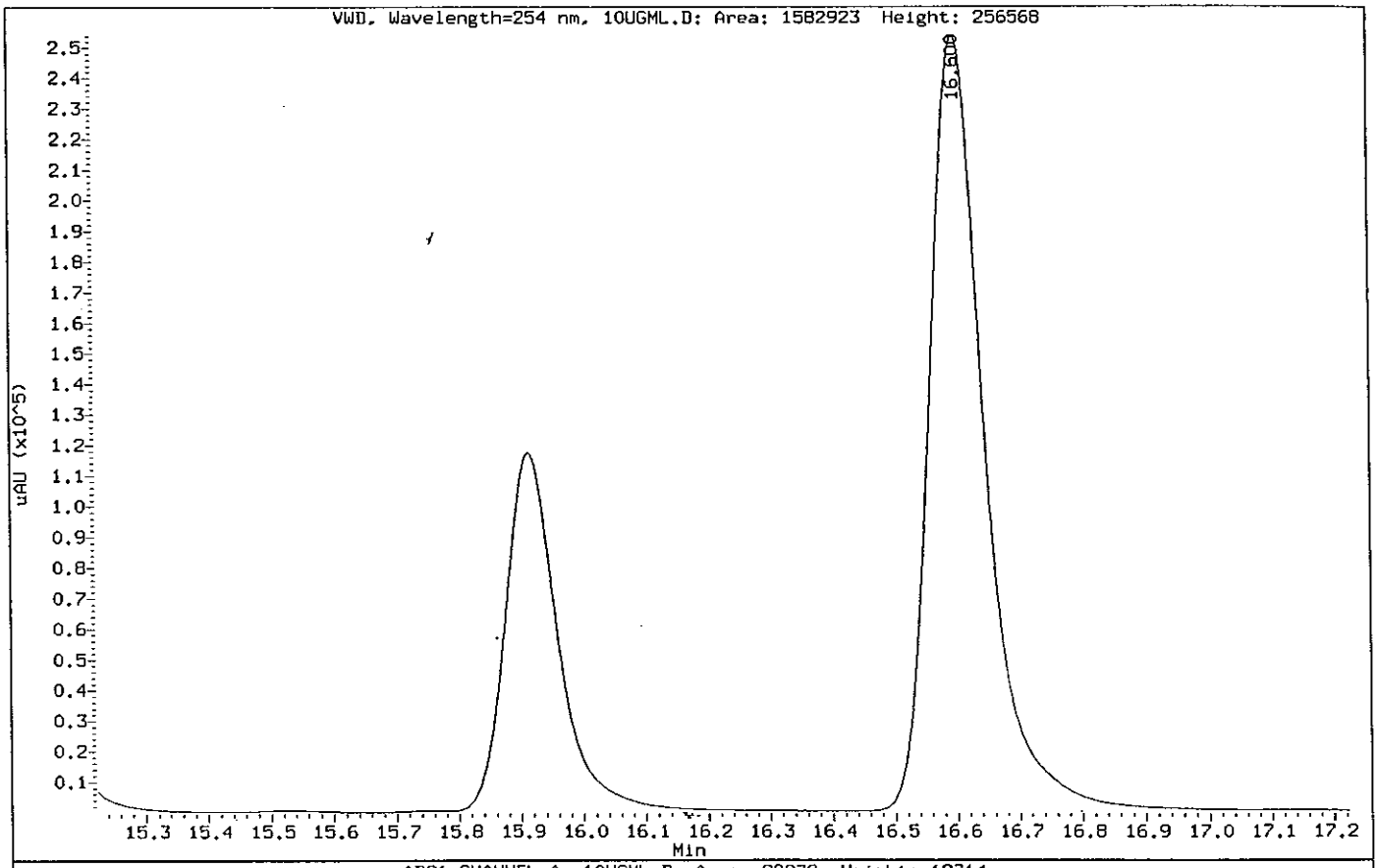
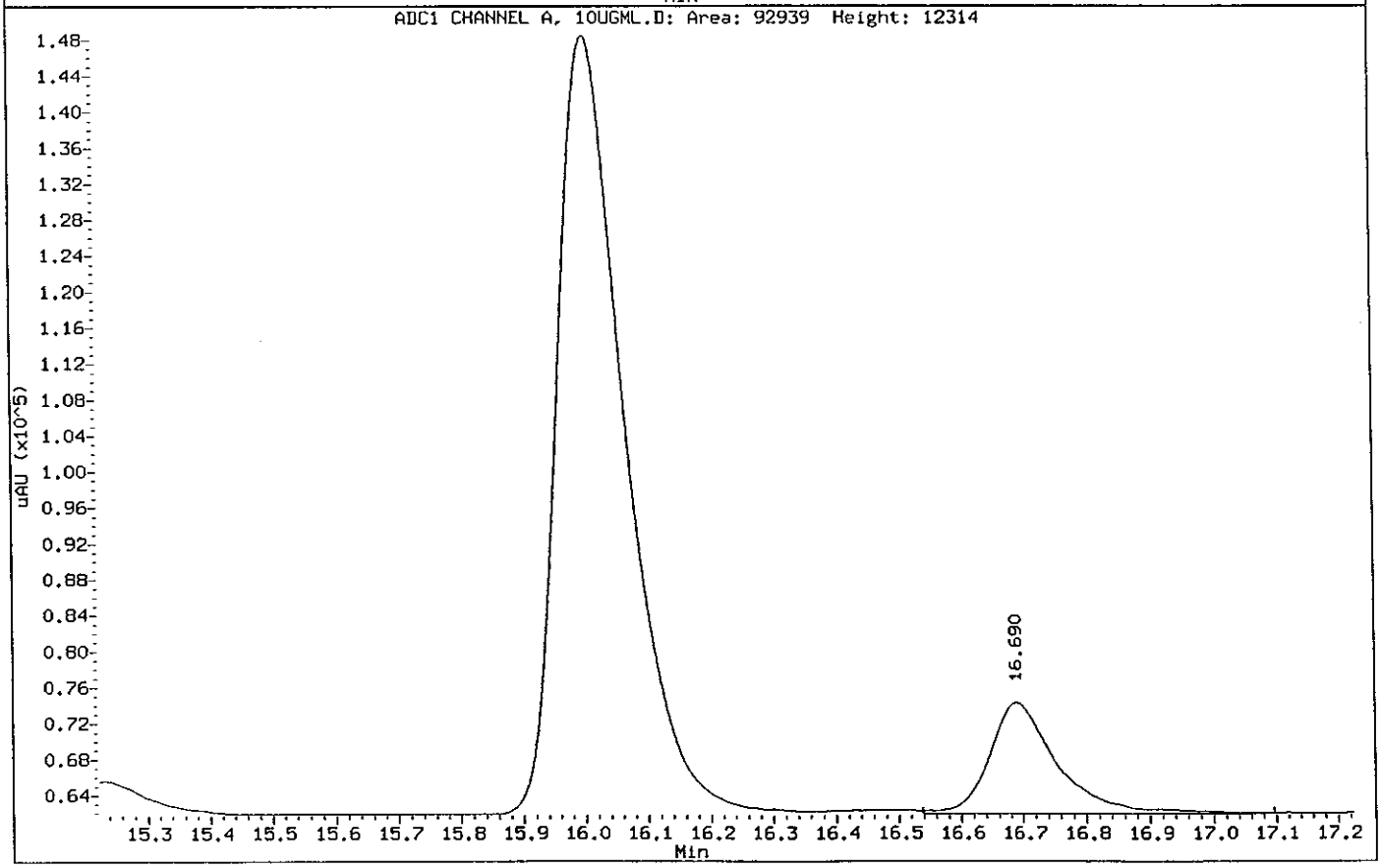
Injection Date: 28-OCT-2001 19:17
Instrument: slc02.i
Client Sample ID: 10st2853

Compound: Anthracene
CAS Number: 120-12-7





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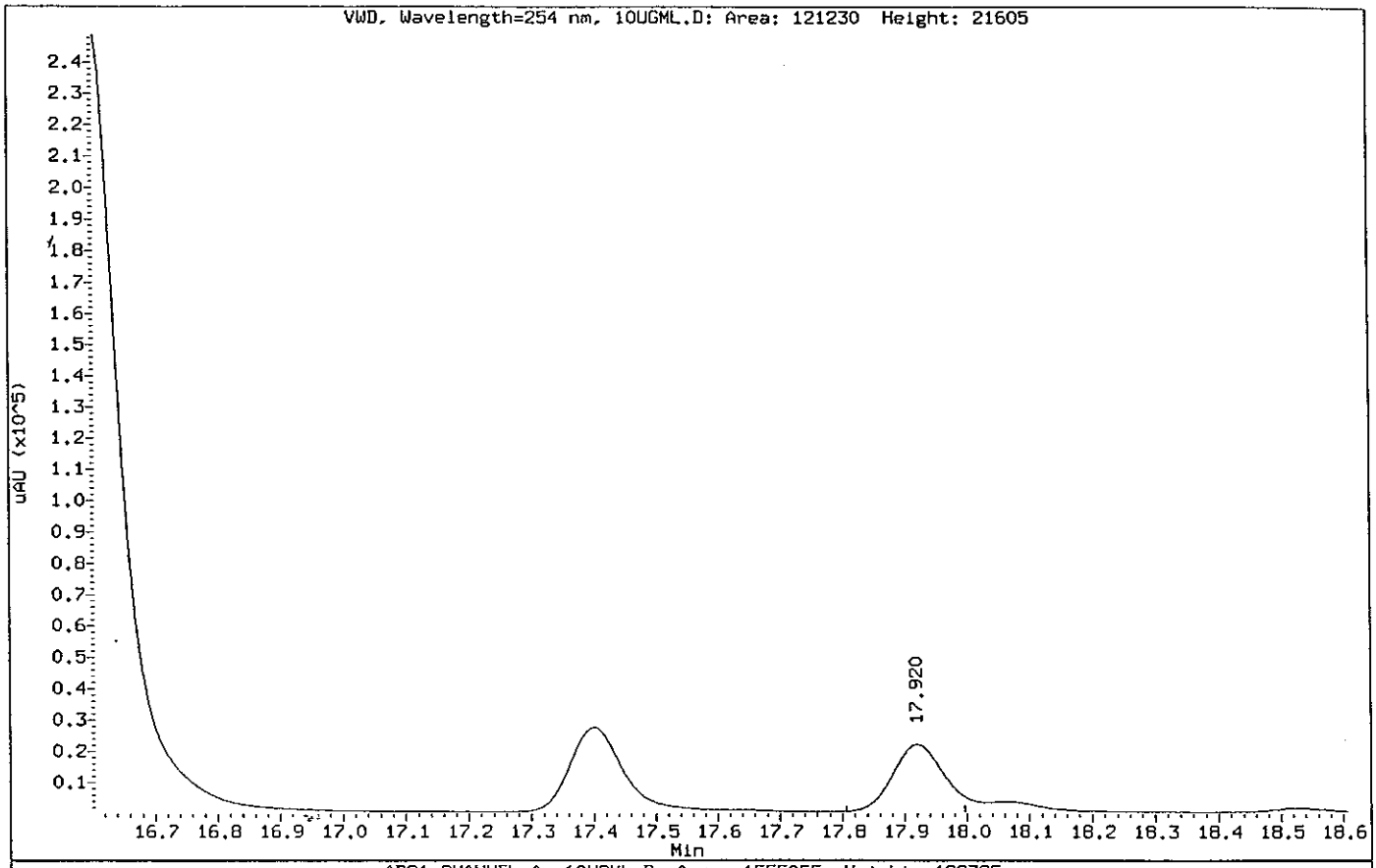
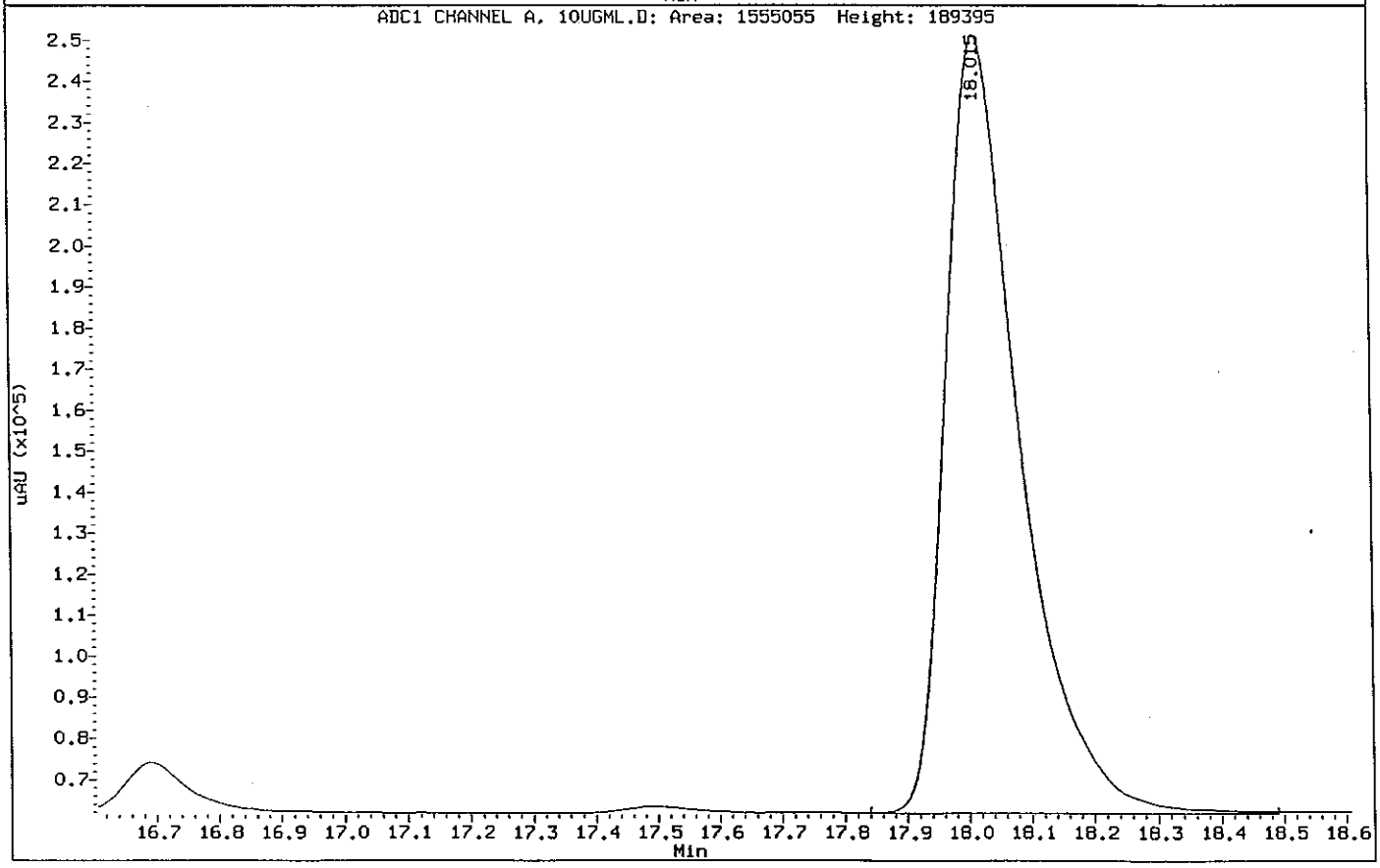
Injection Date: 28-OCT-2001 19:17
Instrument: slc02.i
Client Sample ID: 10st2853

Compound: Pyrene
CAS Number: 129-00-0





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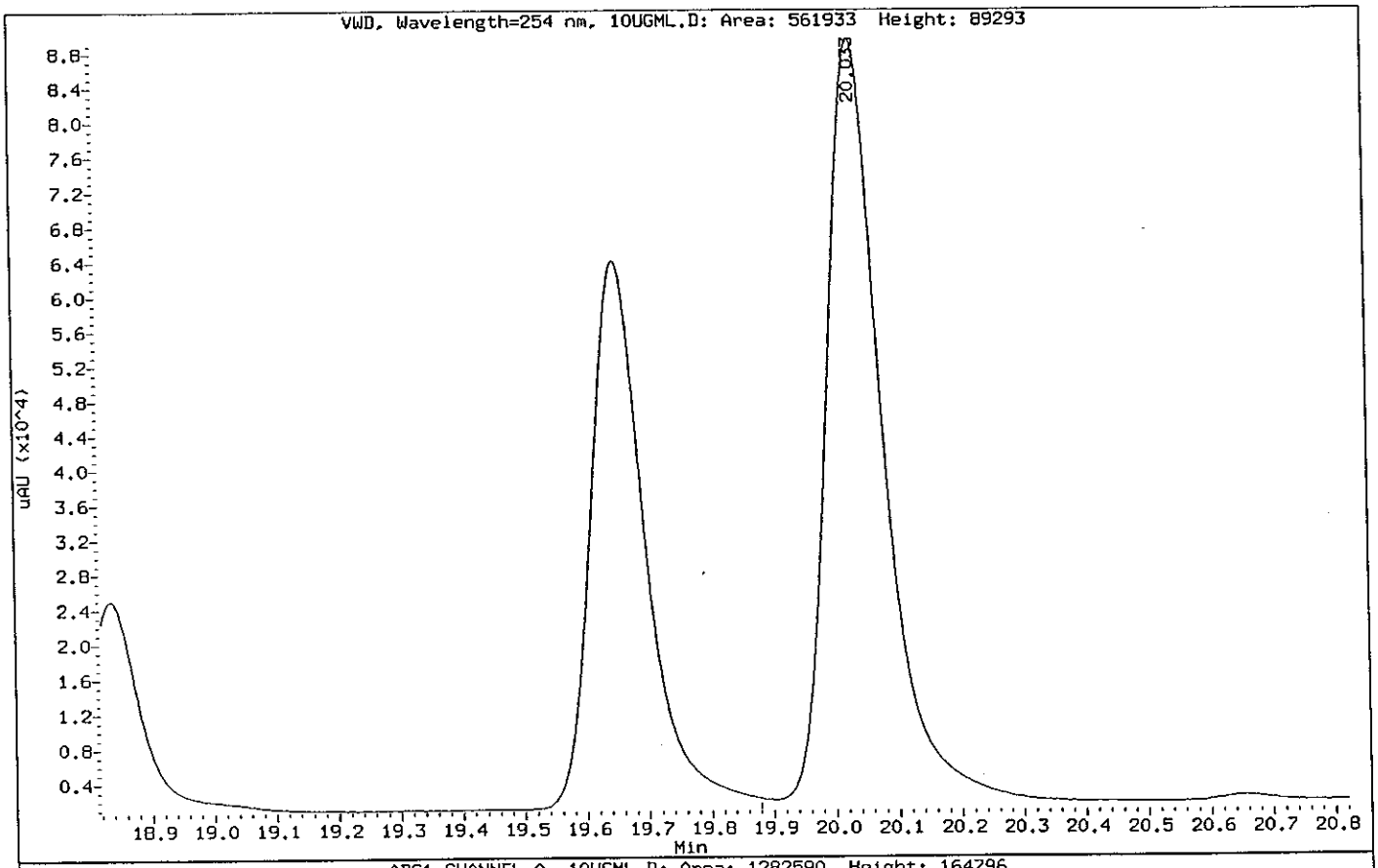
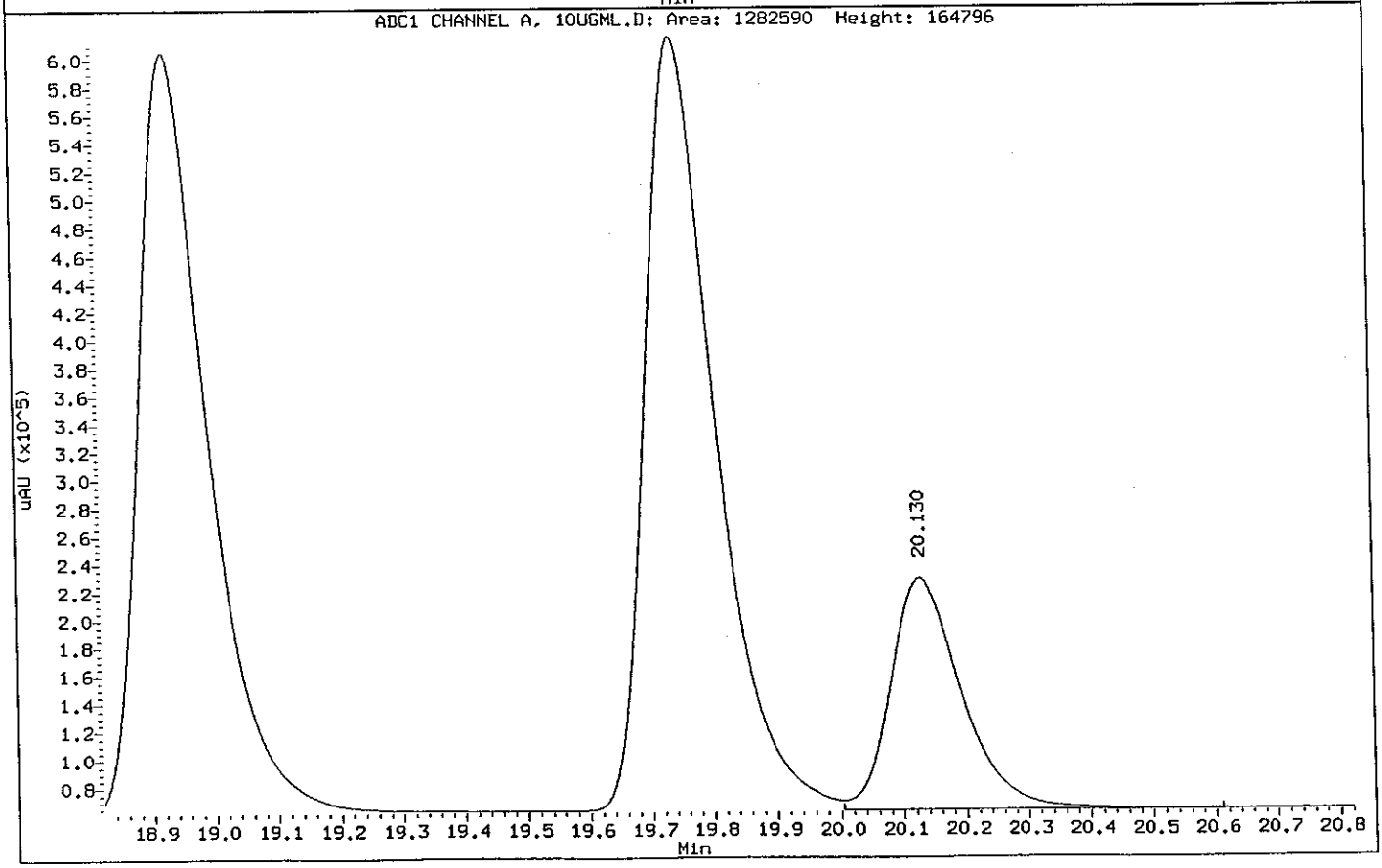
Instrument: slc02.i
Client Sample ID: 10st2853

Compound: Chrysene
CAS Number: 218-01-9





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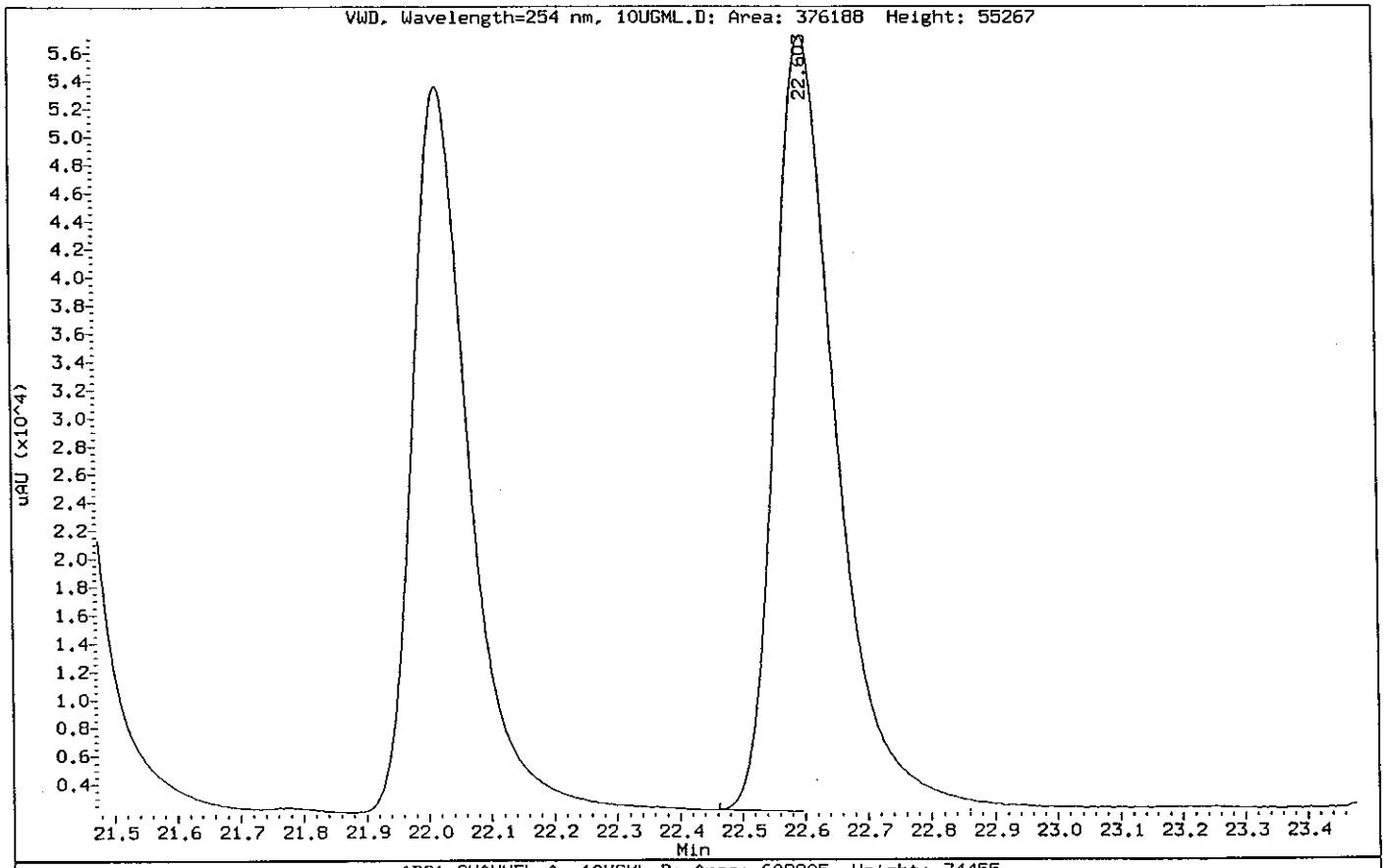
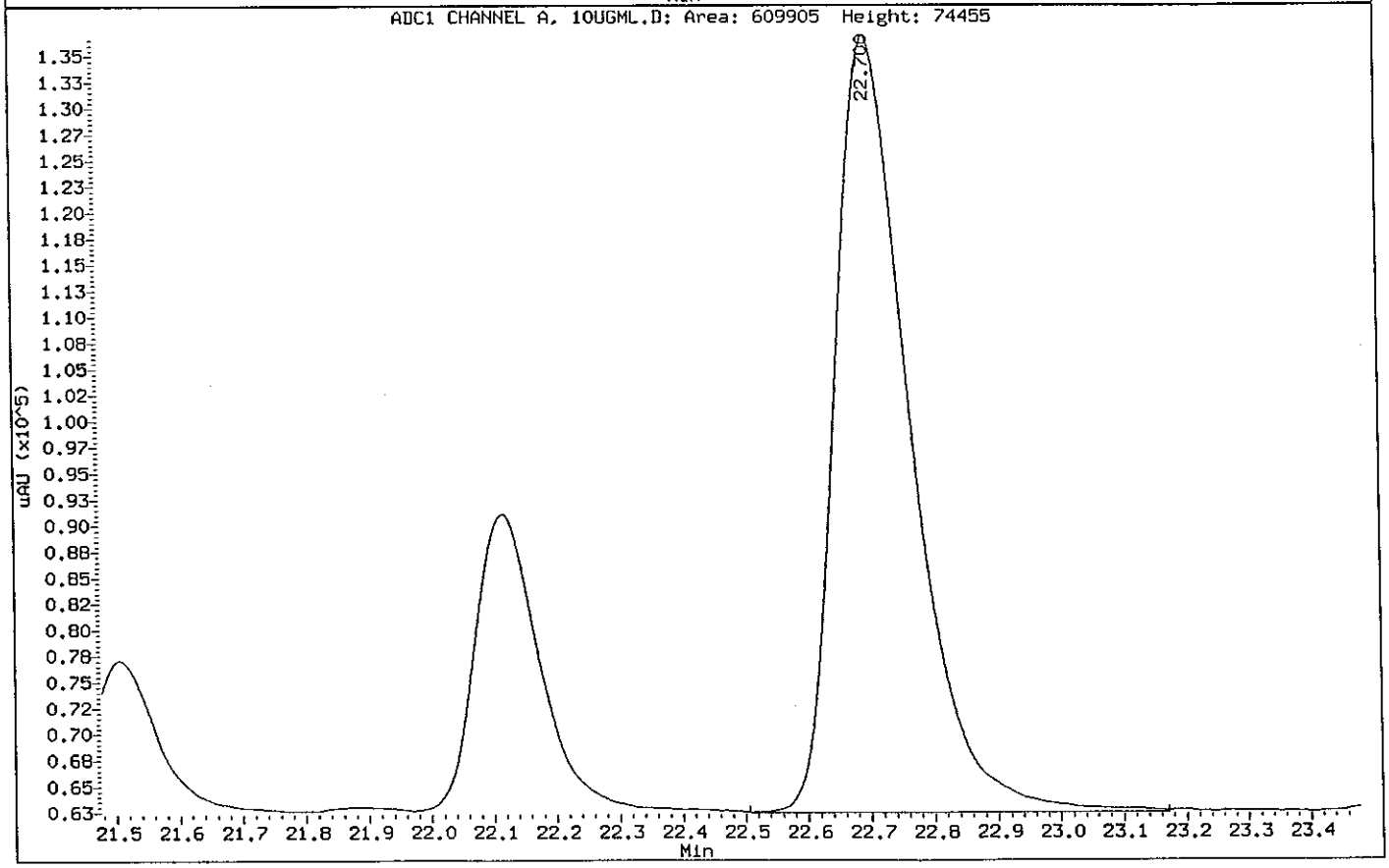
Injection Date: 28-OCT-2001 19:17
Instrument: slc02.i
Client Sample ID: 10st2853

Compound: Benzo(a)pyrene
CAS Number: 50-32-8





PEL Laboratories

Data file : \\SVHPLC\ee\chem\slc02.i\recal1028s\5UGML.D
Lab Smp Id: 5st2854 Client Smp ID: 5st2854
Inj Date : 28-OCT-2001 19:52
Operator : rood Inst ID: slc02.i
Smp Info : 5st2854
Misc Info :
Comment :
Method : \\SVHPLC\ee\chem\slc02.i\recal1028s\8310S.m
Meth Date : 02-Nov-2001 08:37 jdonnelly Quant Type: ISTD
Cal Date : 28-OCT-2001 20:26 Cal File: PT2UGML.D
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.04 Sample Matrix: SOIL
Processing Host: SVHPLC

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

					AMOUNTS CAL-AMT	ON-COL		
RT	EXP RT	REL RT	SIGNAL	RESPONSE	(ug/ml)	(ug/ml)	TARGET RANGE	RATIO
* 1 Carbazole (ISTD)							CAS #: 86-74-8	
11.496	10.610	(1.000)	VWD1A	250327			80.00- 120.00	100.00(M)
11.586	10.610	(1.008)	ADC1A	2001134	10.0000		652.03- 978.05	799.41
2 Naphthalene							CAS #: 91-20-3	
12.466	11.770	(1.084)	VWD1A	27844	5.00000	4.9	80.00- 120.00	100.00
12.556	11.770	(1.092)	ADC1A	28058	5.00000	4.6	82.40- 123.60	100.77
3 Acenaphthylene							CAS #: 208-96-8	
13.590	13.013	(1.182)	VWD1A	22372	5.00000	5.4		
4 1-Methyl naphthalene							CAS #: 90-12-0	
14.160	13.633	(1.232)	VWD1A	17467	5.00000	5.1	80.00- 120.00	100.00(M)
14.250	13.633	(1.239)	ADC1A	63834	5.00000	5.0	0.39- 0.59	365.45

					AMOUNTS CAL-AMT	ON-COL		
RT	EXP RT	REL RT	SIGNAL	RESPONSE	(ug/ml)	(ug/ml)	TARGET RANGE	RATIO
5 2-Methyl naphthalene						CAS #: 91-57-6		
14.473	13.973	(1.259)	VWD1A	25100	5.00000	5.2	80.00- 120.00	100.00(M)
14.563	13.973	(1.267)	ADC1A	51934	5.00000	4.8	191.55- 287.32	206.91
6 Acenaphthene						CAS #: 83-32-9		
14.790	14.310	(1.286)	VWD1A	12215	5.00000	5.6	80.00- 120.00	100.00
14.875	14.310	(1.294)	ADC1A	108149	5.00000	4.3	964.12-1446.17	885.38
7 Fluorene						CAS #: 86-73-7		
15.126	14.680	(1.316)	VWD1A	126519	5.00000	5.0	80.00- 120.00	100.00
15.216	14.680	(1.324)	ADC1A	14445	5.00000	4.7	9.06- 13.59	11.42
8 Phenanthrene						CAS #: 85-01-8		
15.896	15.500	(1.383)	VWD1A	341901	5.00000	4.8	80.00- 120.00	100.00(M)
15.988	15.500	(1.391)	ADC1A	307623	5.00000	4.6	78.58- 117.87	89.97
9 Anthracene						CAS #: 120-12-7		
16.580	16.223	(1.442)	VWD1A	813573			80.00- 120.00	100.00(M)
16.668	16.223	(1.450)	ADC1A	45778	5.00000	4.5	5.00- 7.50	5.63
10 Fluoranthene						CAS #: 206-44-0		
17.383	17.066	(1.512)	VWD1A	84287	5.00000	5.0	80.00- 120.00	100.00
17.475	17.066	(1.520)	ADC1A	6618			6.36- 9.54	7.85
11 Pyrene						CAS #: 129-00-0		
17.906	17.606	(1.558)	VWD1A	62026	5.00000	4.8	80.00- 120.00	100.00(M)
18.003	17.606	(1.566)	ADC1A	862156	5.00000	5.0	935.91-1403.86	1389.99
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.826	18.593	(1.638)	VWD1A	80110	5.00000	5.3	80.00- 120.00	100.00
18.916	18.593	(1.645)	ADC1A	2073951	5.00000	5.0	2246.35-3369.53	2588.88
13 Benzo(a)Anthracene						CAS #: 56-55-3		
19.640	19.426	(1.708)	VWD1A	194574	5.00000	4.9	80.00- 120.00	100.00
19.735	19.426	(1.717)	ADC1A	2116028	5.00000	5.0	881.58-1322.37	1087.52
14 Chrysene						CAS #: 218-01-9		
20.023	19.820	(1.742)	VWD1A	285171	5.00000	5.0	80.00- 120.00	100.00(M)
20.118	19.820	(1.750)	ADC1A	670001	5.00000	5.0	190.14- 285.21	234.95
15 Benzo(b)Fluoranthene						CAS #: 205-99-2		
21.403	21.253	(1.862)	VWD1A	212764	5.00000	5.0	80.00- 120.00	100.00(M)
21.496	21.253	(1.870)	ADC1A	58019	5.00000	5.1	20.85- 31.28	27.27
16 Benzo(k)Fluoranthene						CAS #: 207-08-9		
22.016	21.883	(1.915)	VWD1A	162226	5.00000	5.0	80.00- 120.00	100.00(M)

RT	EXP RT	REL RT	SIGNAL	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
16 Benzo(k)Fluoranthene (continued)								
22.113	21.883	(1.923)	ADC1A	105974	5.00000	4.9	52.76- 79.15	65.32
17 Benzo(a)pyrene						CAS #: 50-32-8		
22.600	22.476	(1.966)	VWD1A	1787#1	5.00000	5.0	80.00- 120.00	100.00(M)
22.700	22.476	(1.974)	ADC1A	309769	5.00000	5.0	138.13- 207.19	173.28
18 Dibenz(ah)Anthracene						CAS #: 53-70-3		
23.590	23.493	(2.052)	VWD1A	40804	5.00000	4.7	80.00- 120.00	100.00(M)
23.688	23.493	(2.060)	ADC1A	514424	5.00000	5.0	949.04-1423.56	1260.72
19 Benzo(ghi)Perylene						CAS #: 191-24-2		
24.313	24.226	(2.115)	VWD1A	67192	5.00000	4.8	80.00- 120.00	100.00(M)
24.411	24.226	(2.123)	ADC1A	136132	5.00000	4.7	155.32- 232.98	202.60
20 Indeno(123cd)Pyrene						CAS #: 193-39-5		
24.780	24.703	(2.155)	VWD1A	175021	5.00000	4.7	80.00- 120.00	100.00

QC Flag Legend

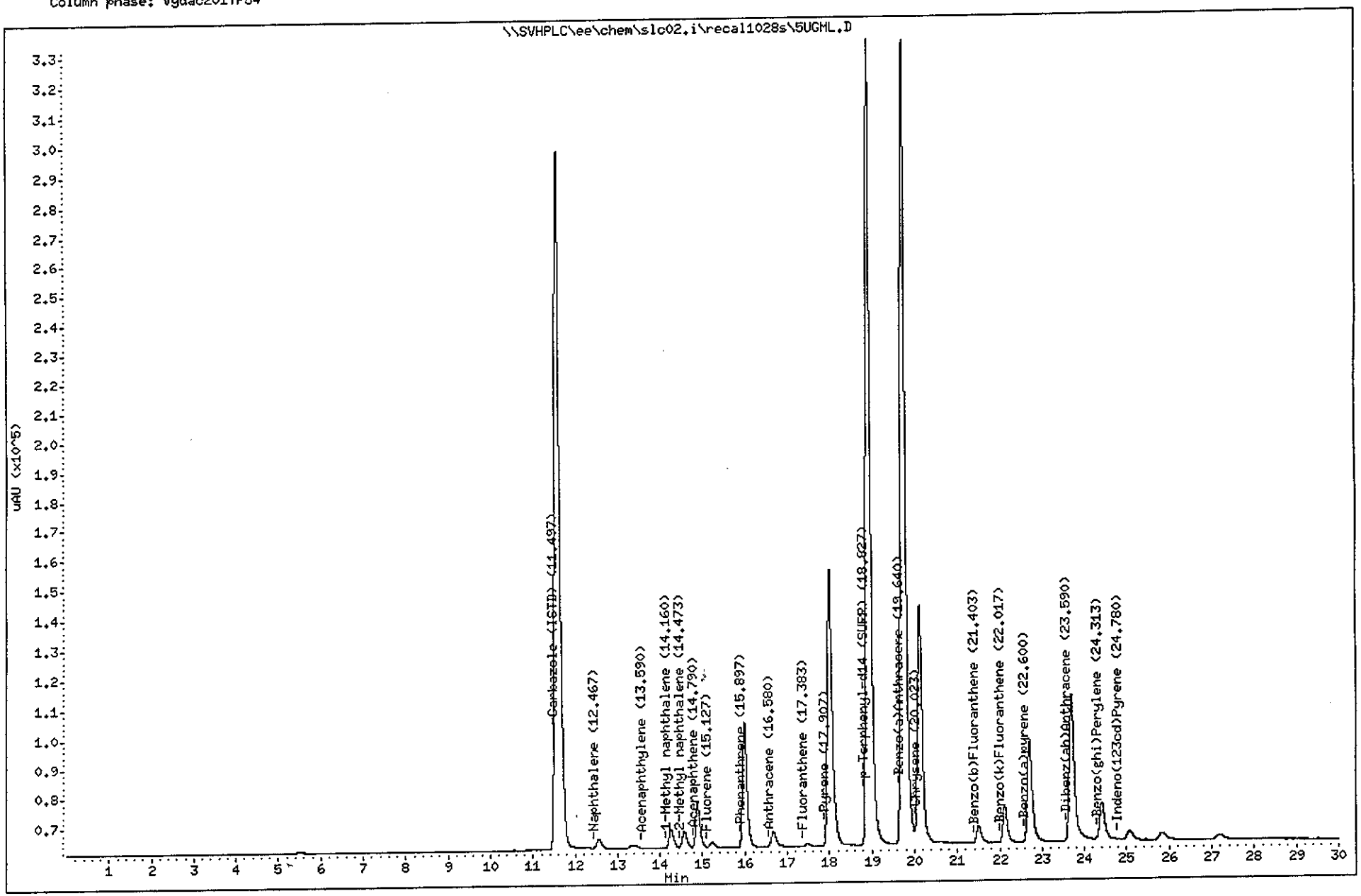
M - Compound response manually integrated.

Data File: \\SVHPLC\ee\chem\slc02.i\recal1028s\5UGML.D
Date : 28-OCT-2001 19:52
Client ID: 5st2854
Sample Info: 5st2854

Column phase: Vydac201TP54

Instrument: slc02.i

Operator: rood
Column diameter: 4.60



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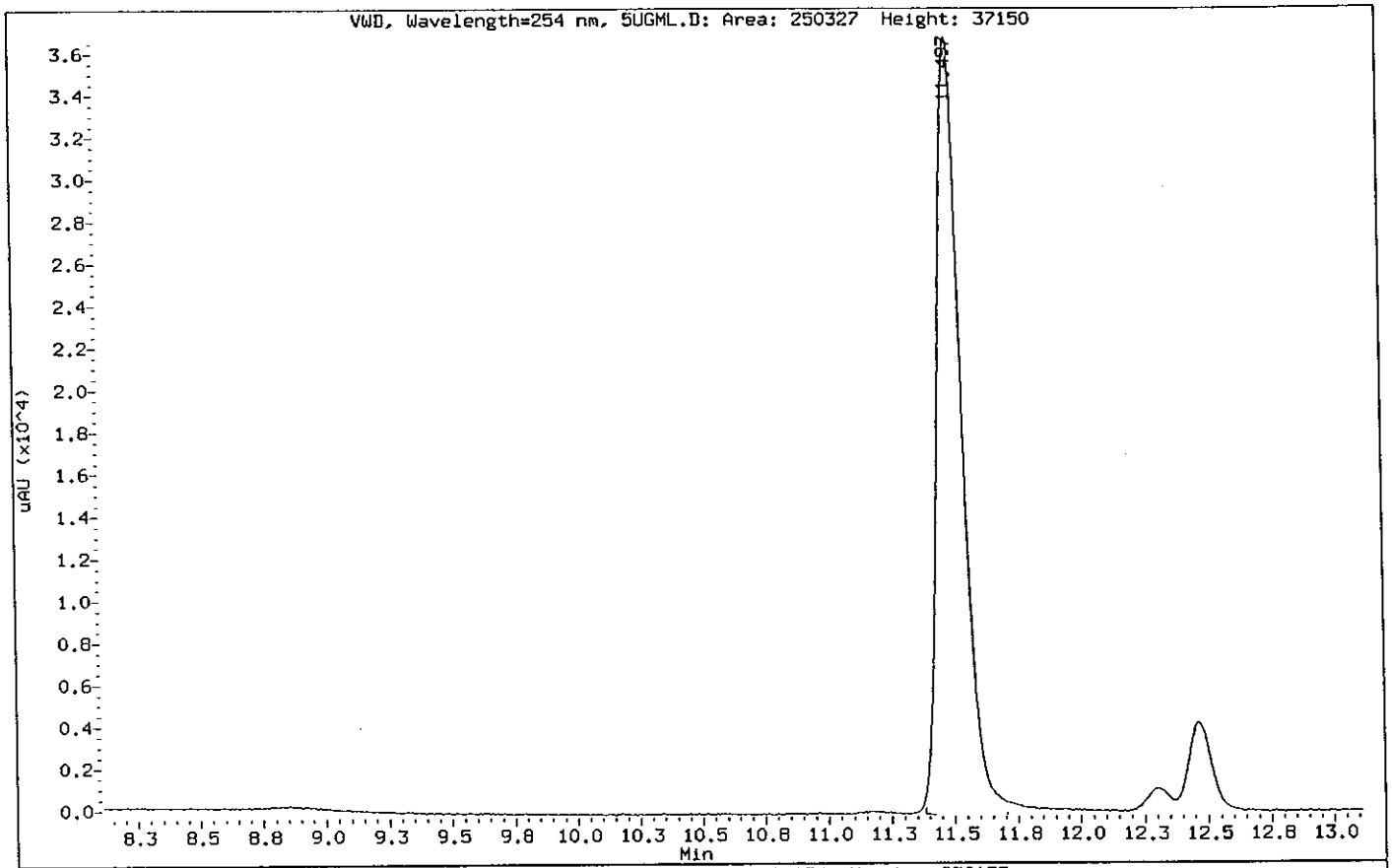
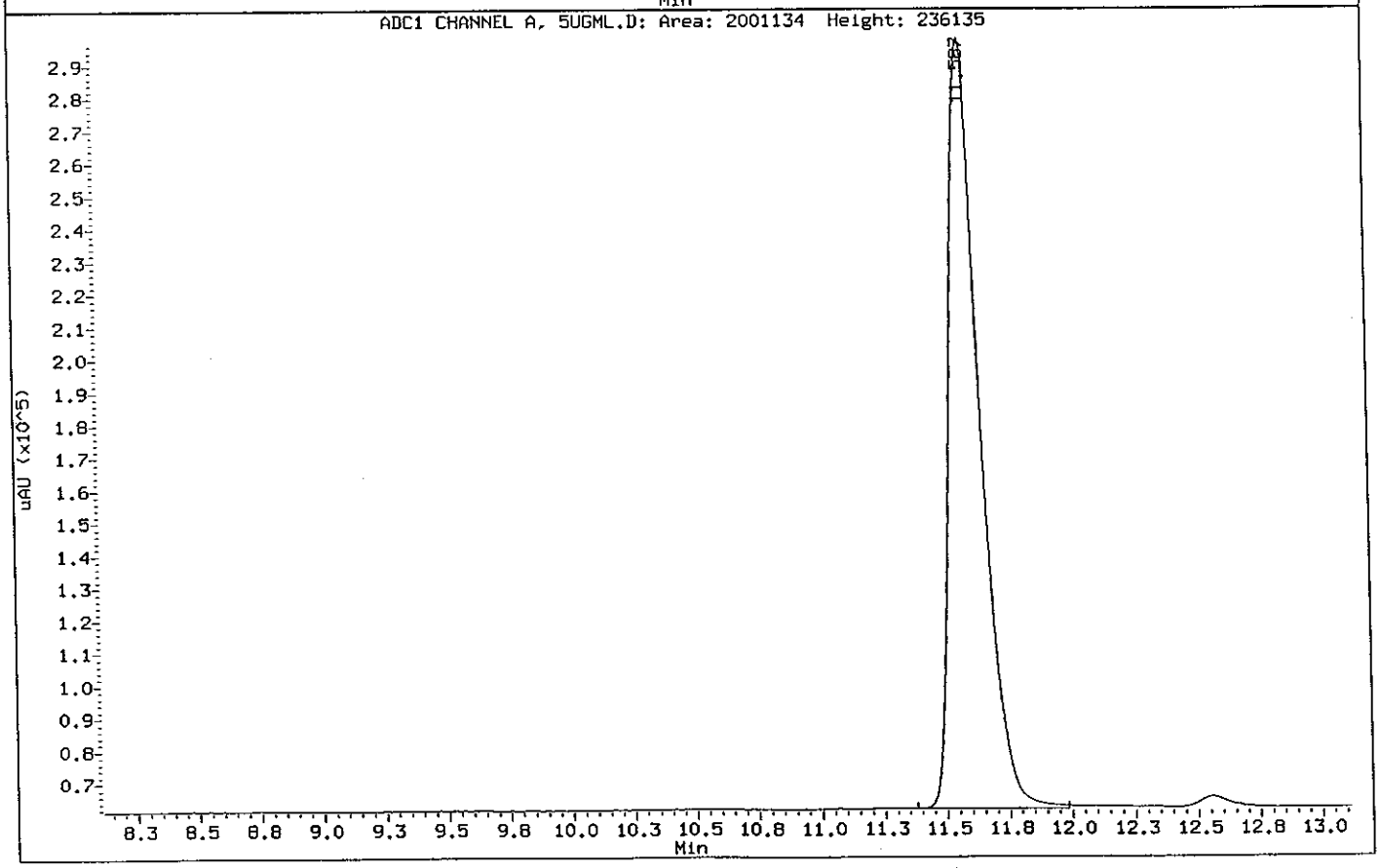
Injection Date: 28-OCT-2001 19:52
Instrument: slc02.i
Client Sample ID: 5st2854

Compound: Carbazole (ISTD)
CAS Number: 86-74-8





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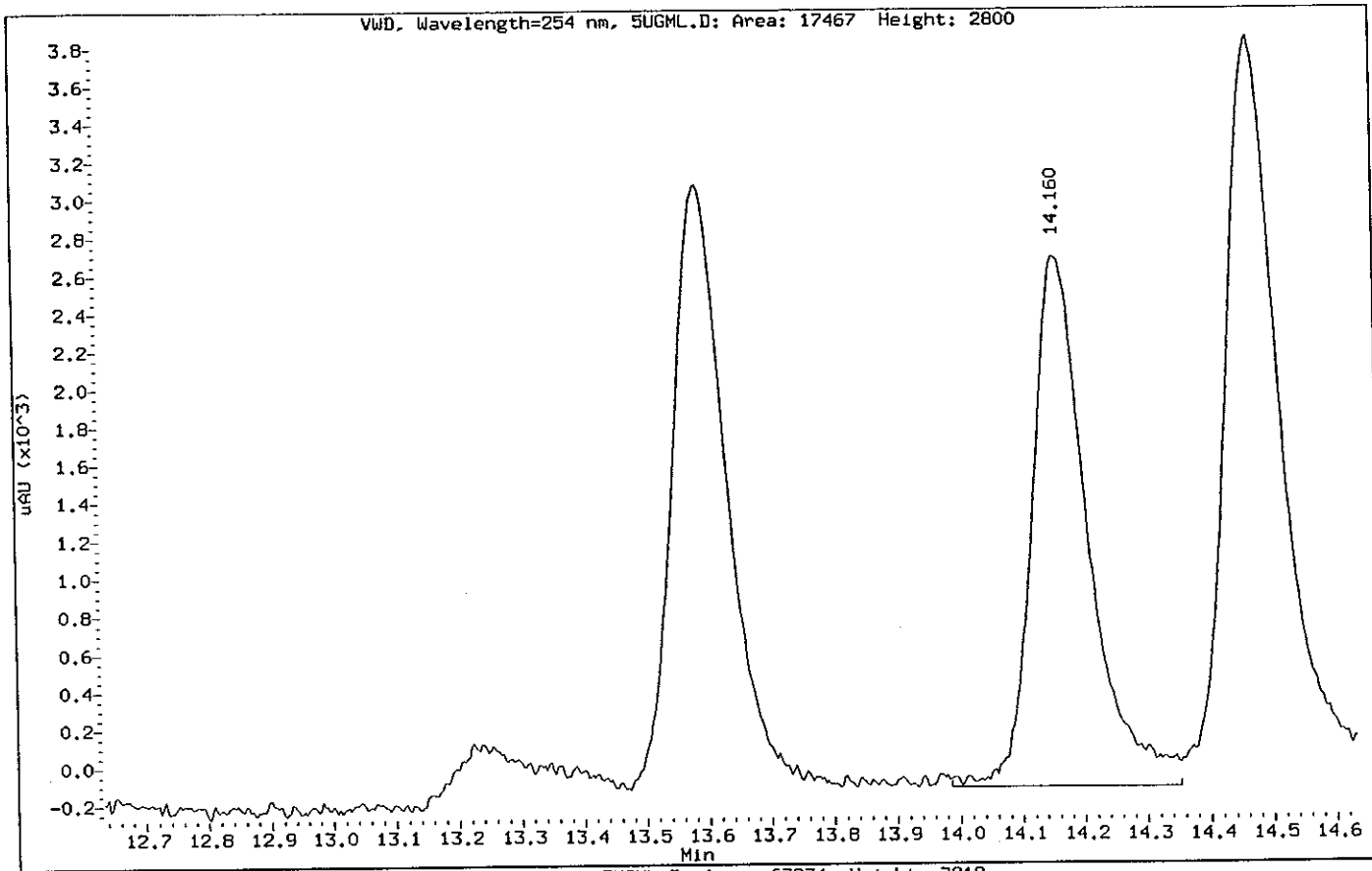
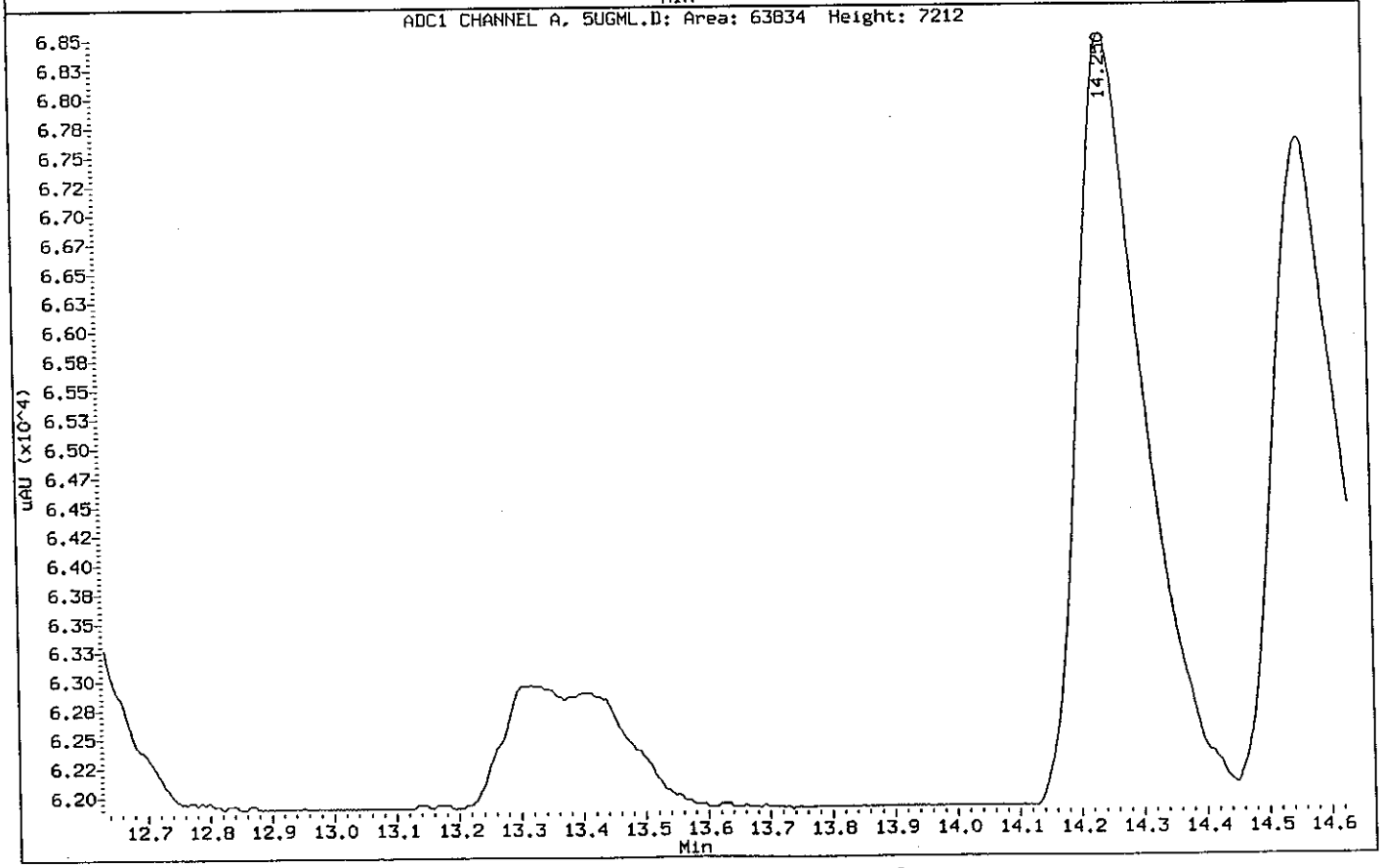
Instrument: slc02.i
Client Sample ID: 5st2854

Compound: 1-Methyl naphthalene
CAS Number: 90-12-0





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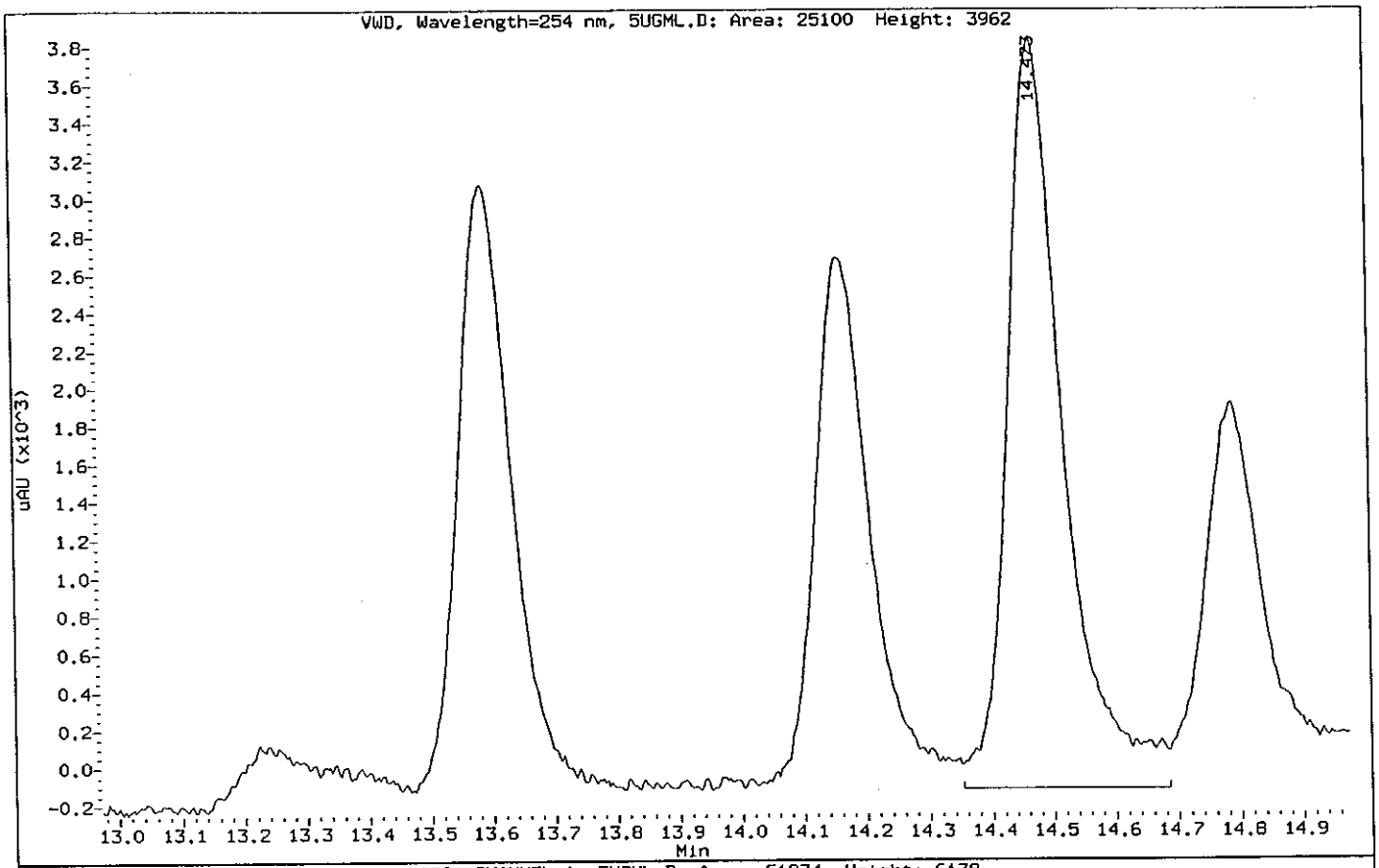
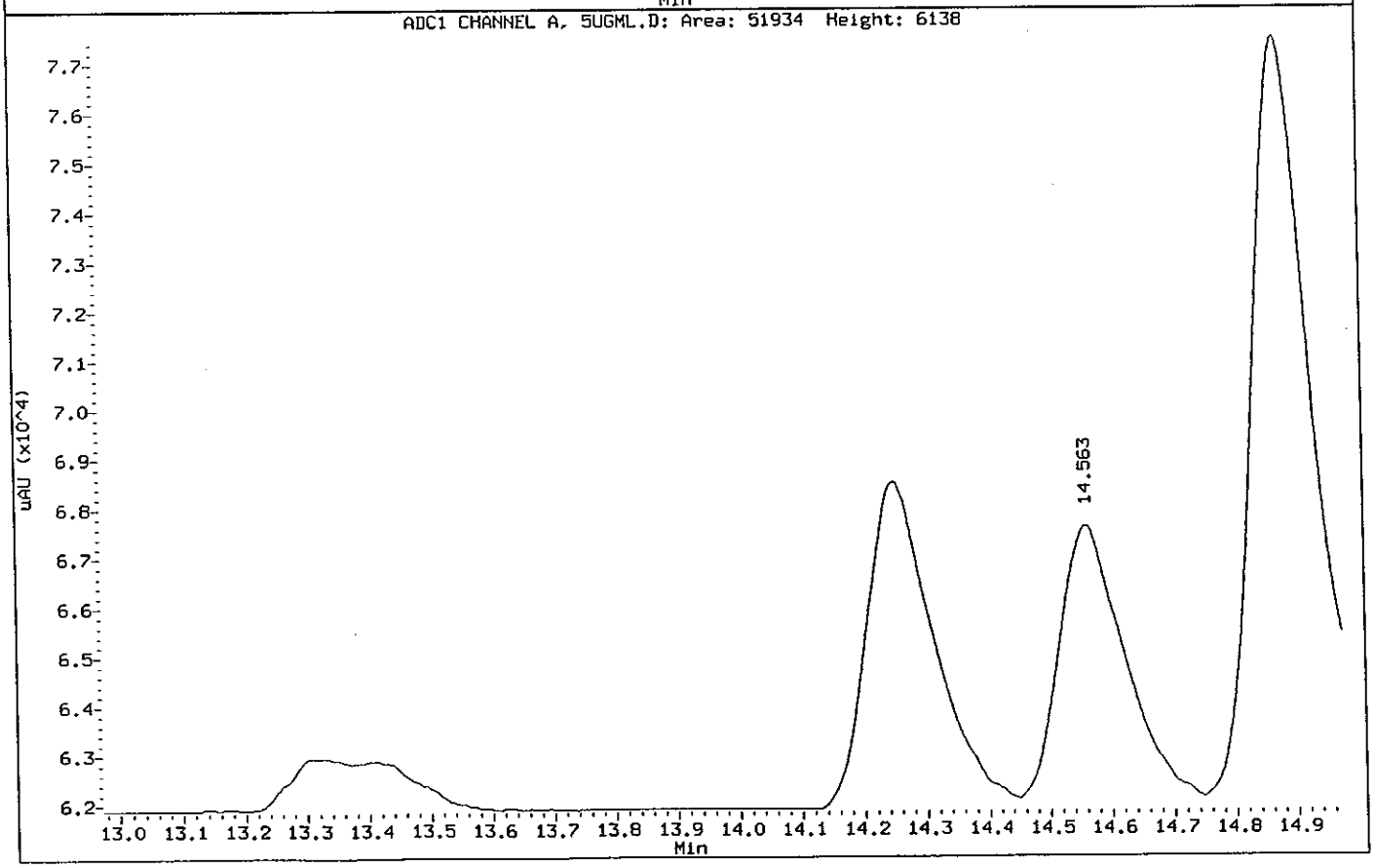
Instrument: slc02.i
Client Sample ID: 5st2854

Compound: 2-Methyl naphthalene
CAS Number: 91-57-6





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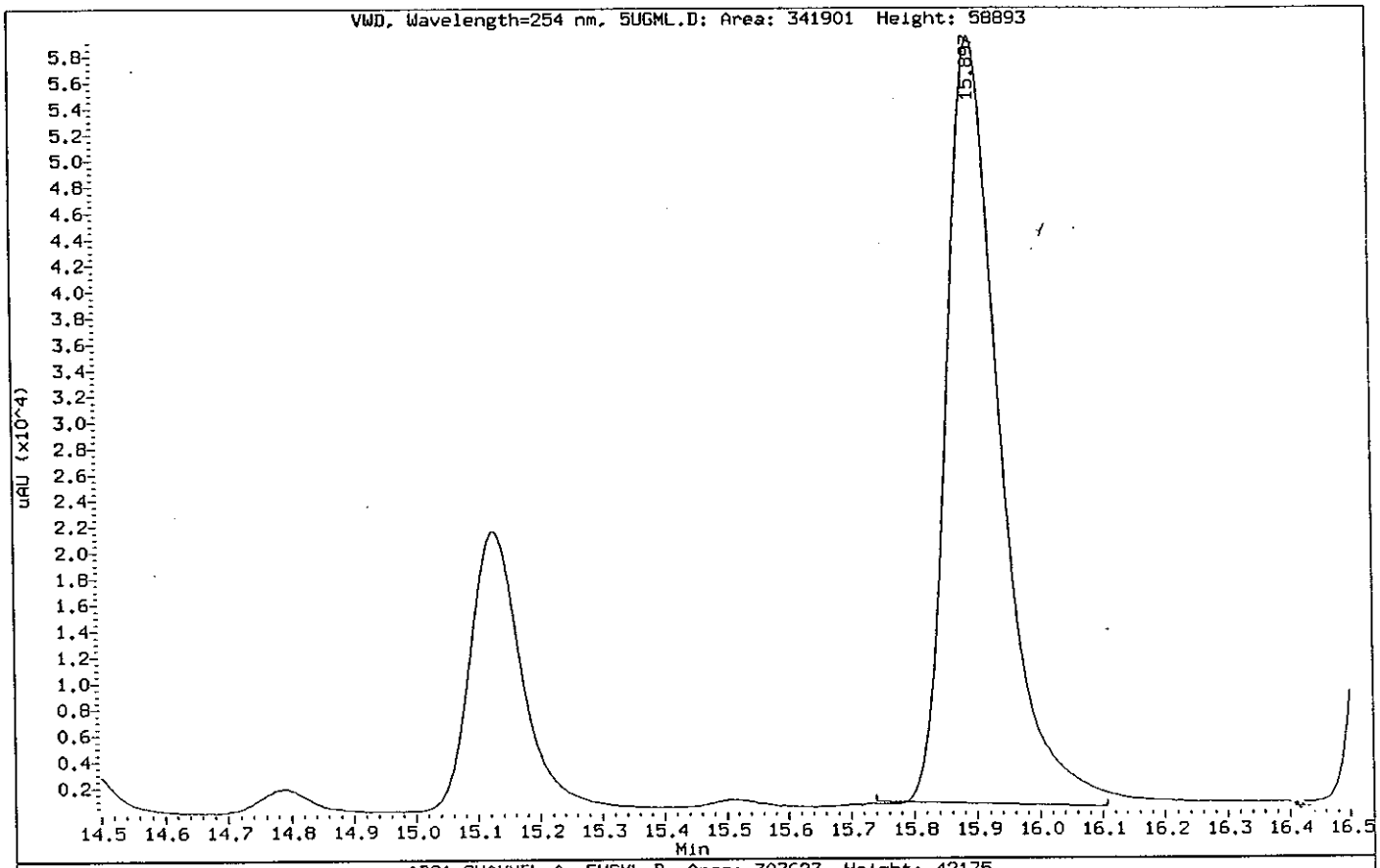
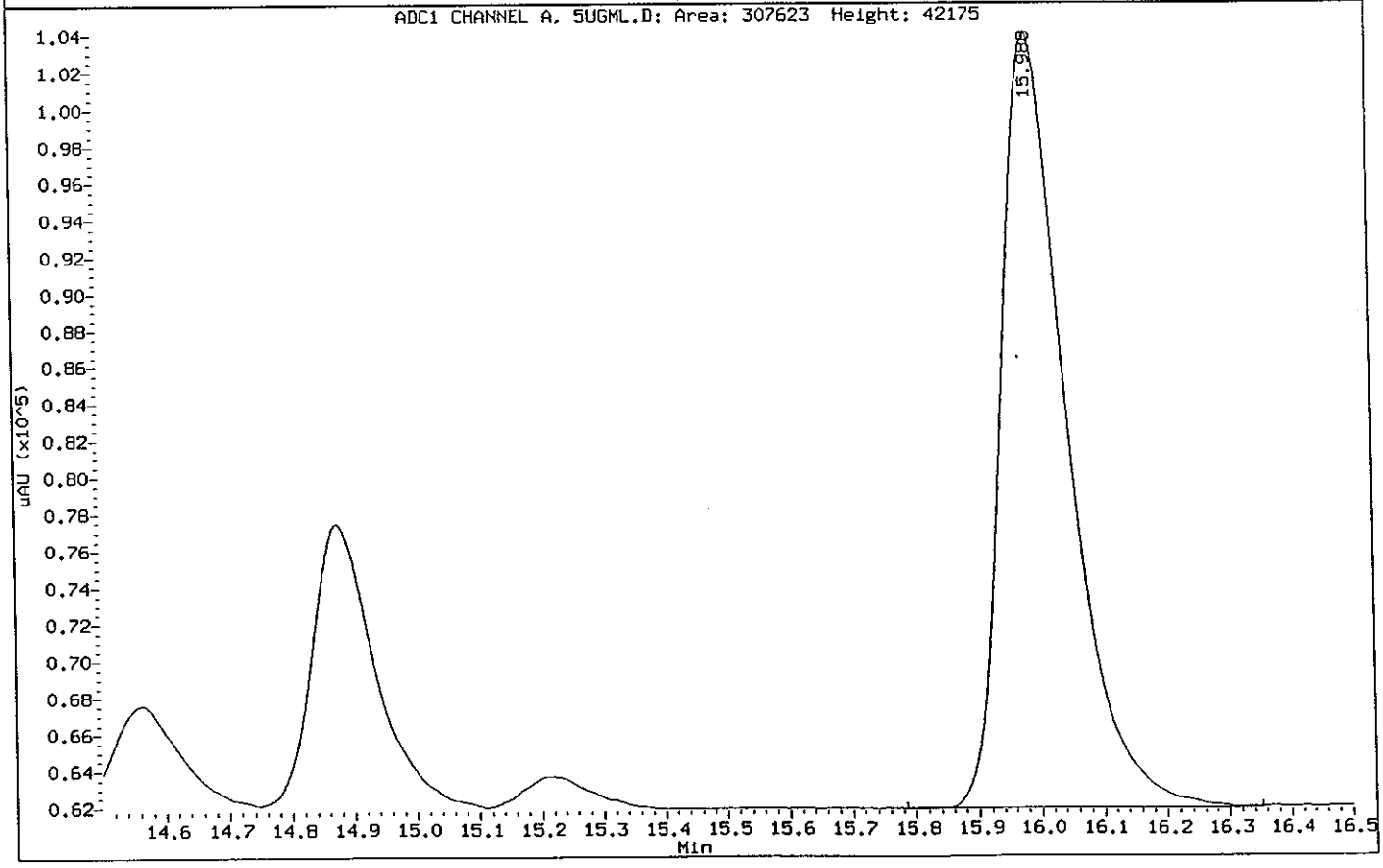
Instrument: slc02.i
Client Sample ID: 5st2854

Compound: Phenanthrene
CAS Number: 85-01-8





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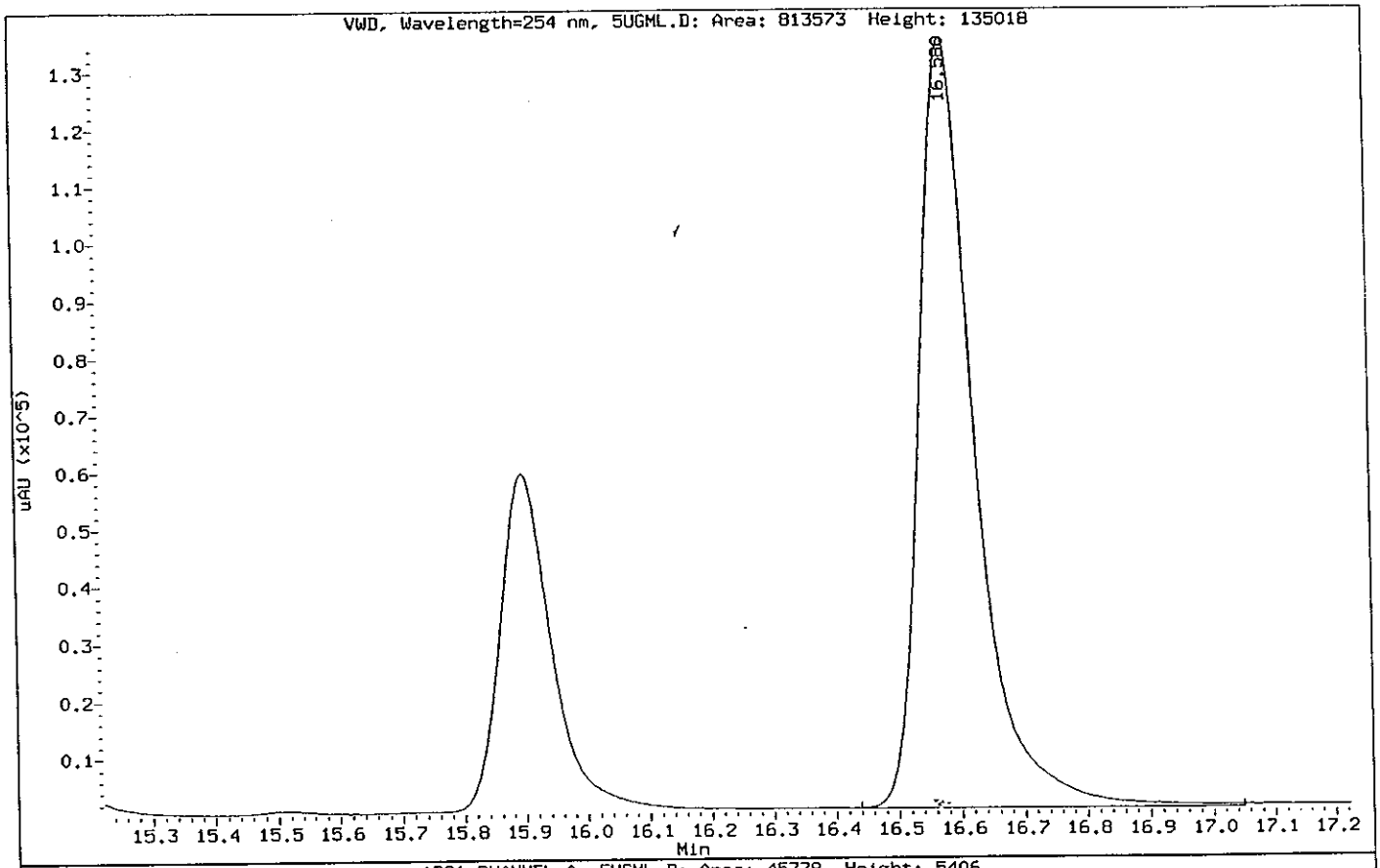
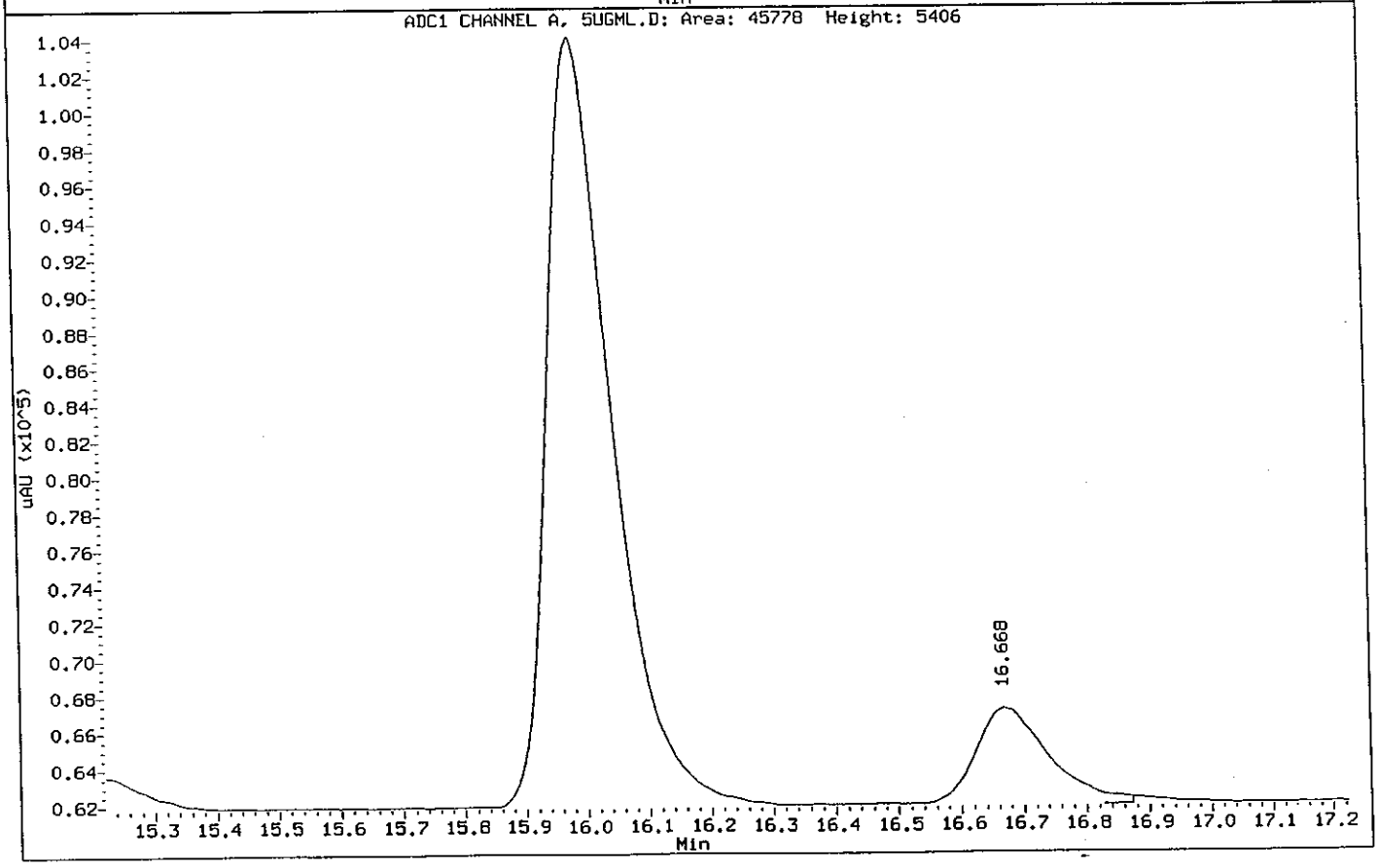
Instrument: slc02.i
Client Sample ID: 5st2854

Compound: Anthracene
CAS Number: 120-12-7





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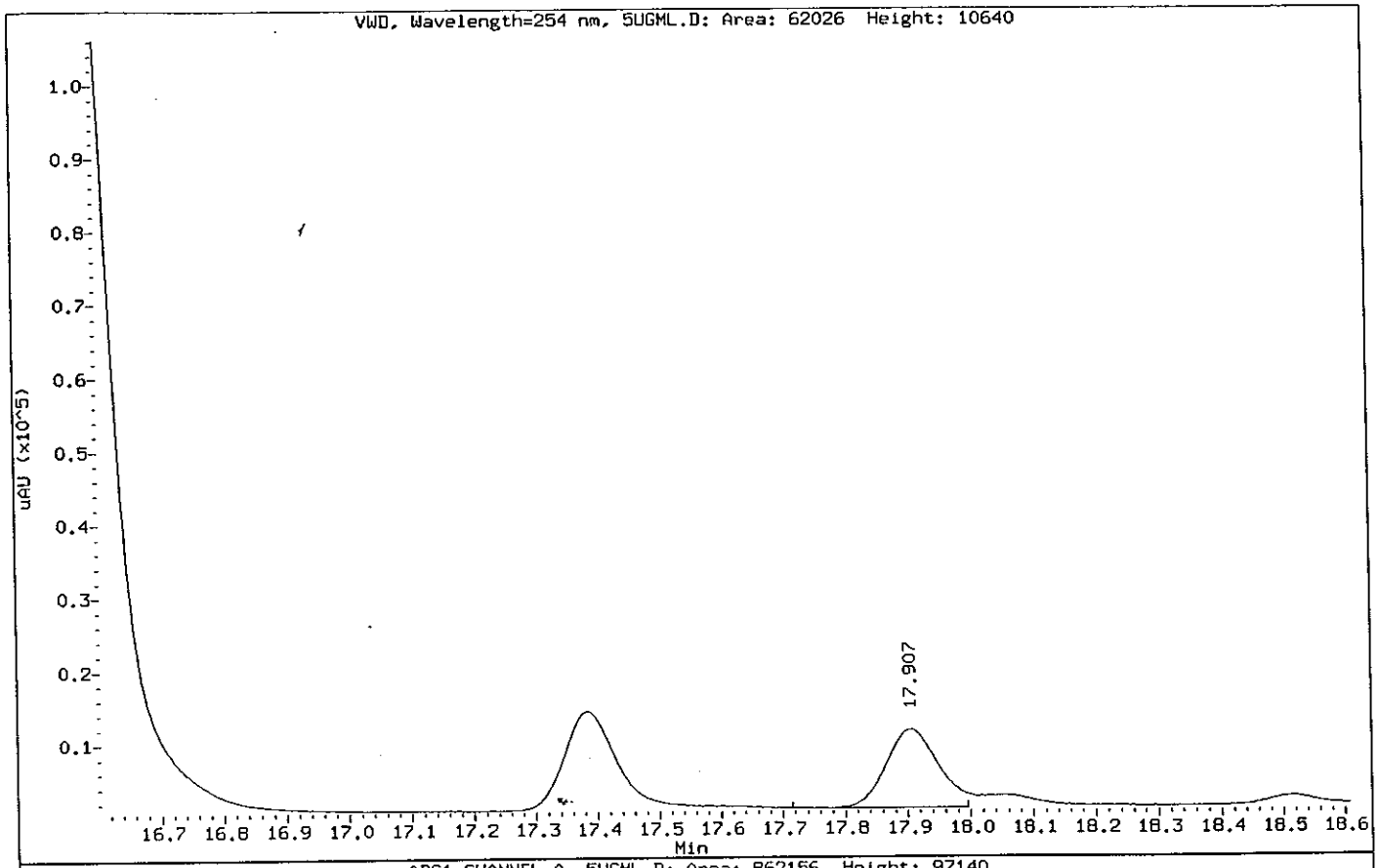
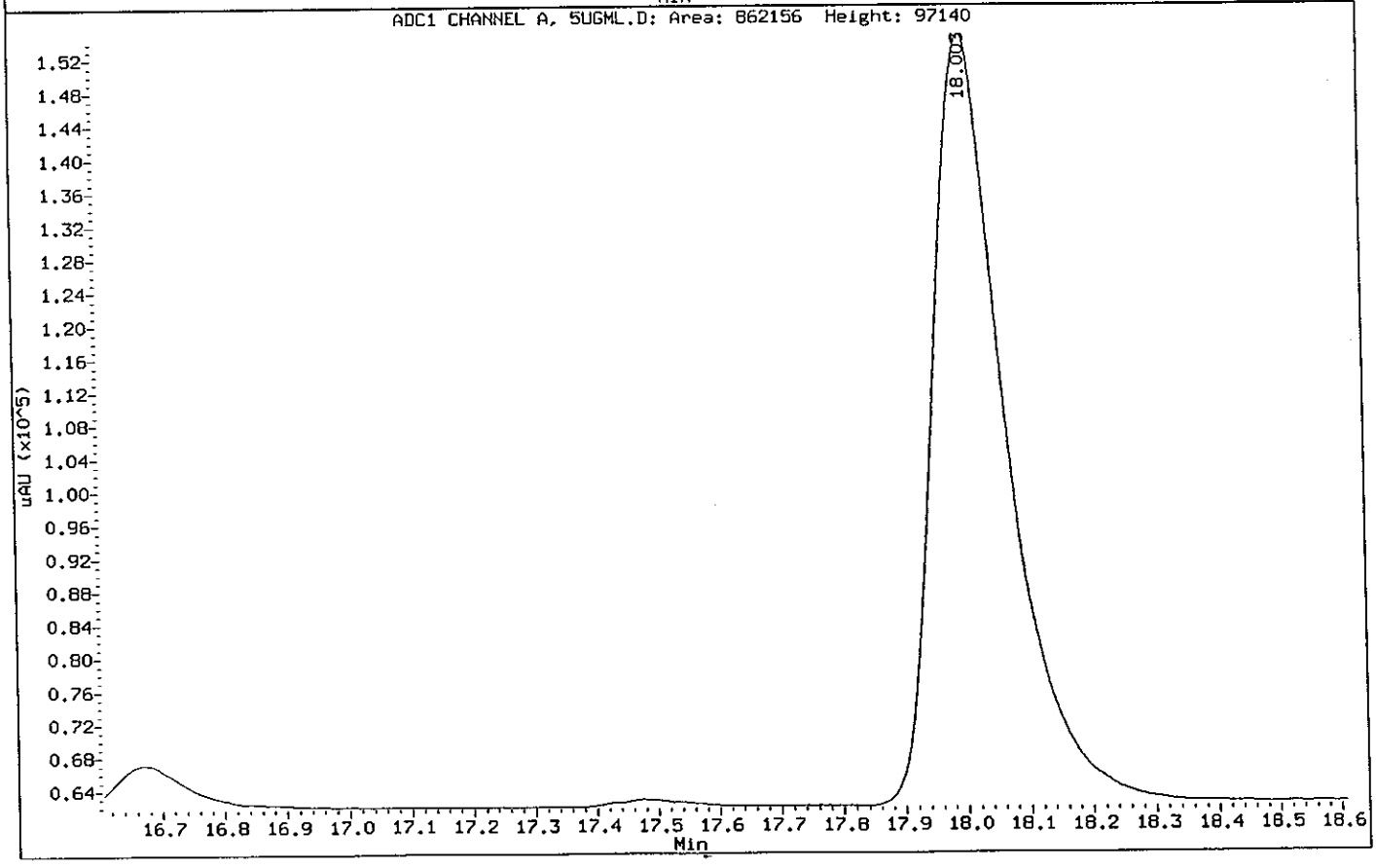
Injection Date: 28-OCT-2001 19:52
Instrument: slc02.i
Client Sample ID: 5st2854

Compound: Pyrene
CAS Number: 129-00-0





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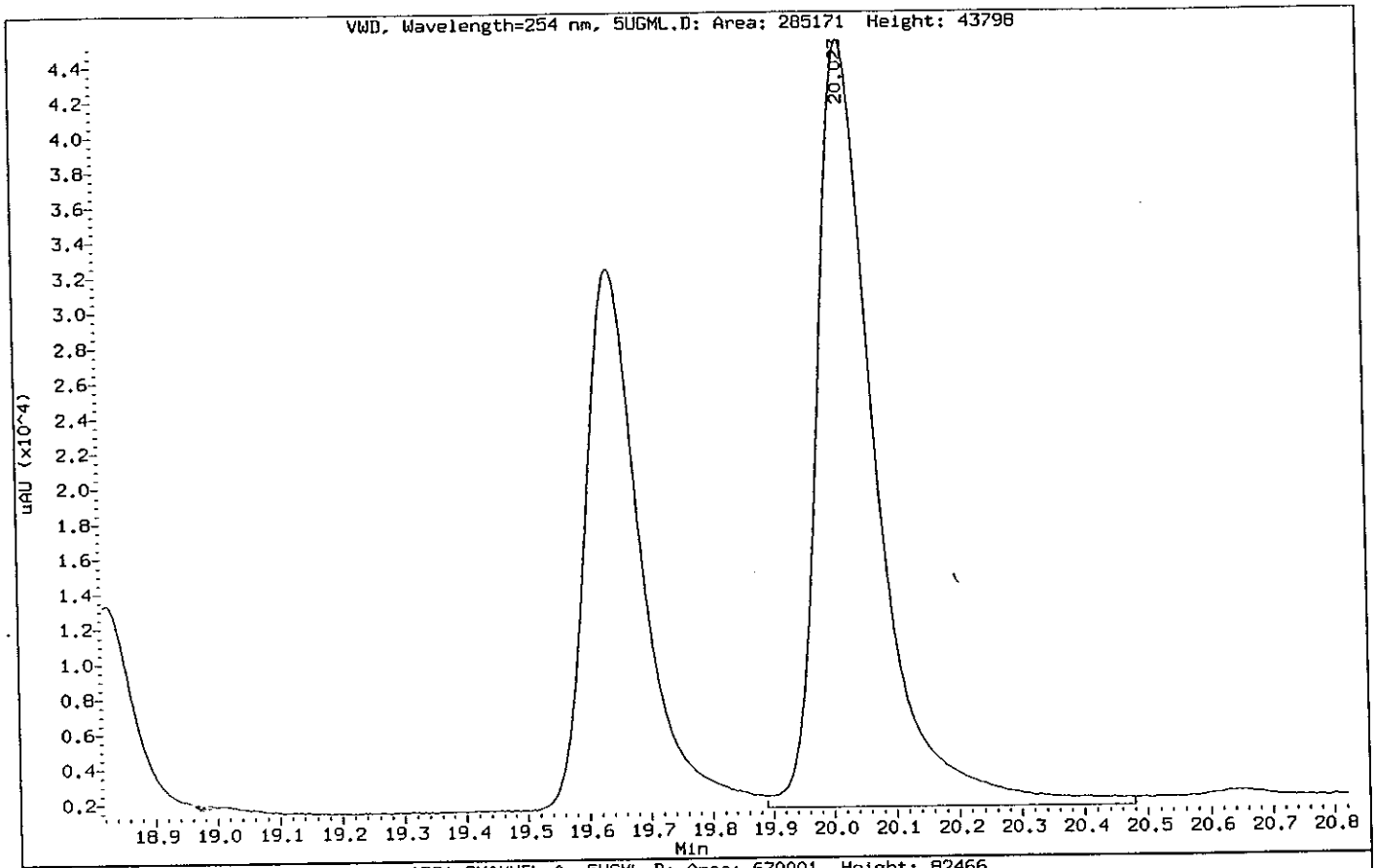
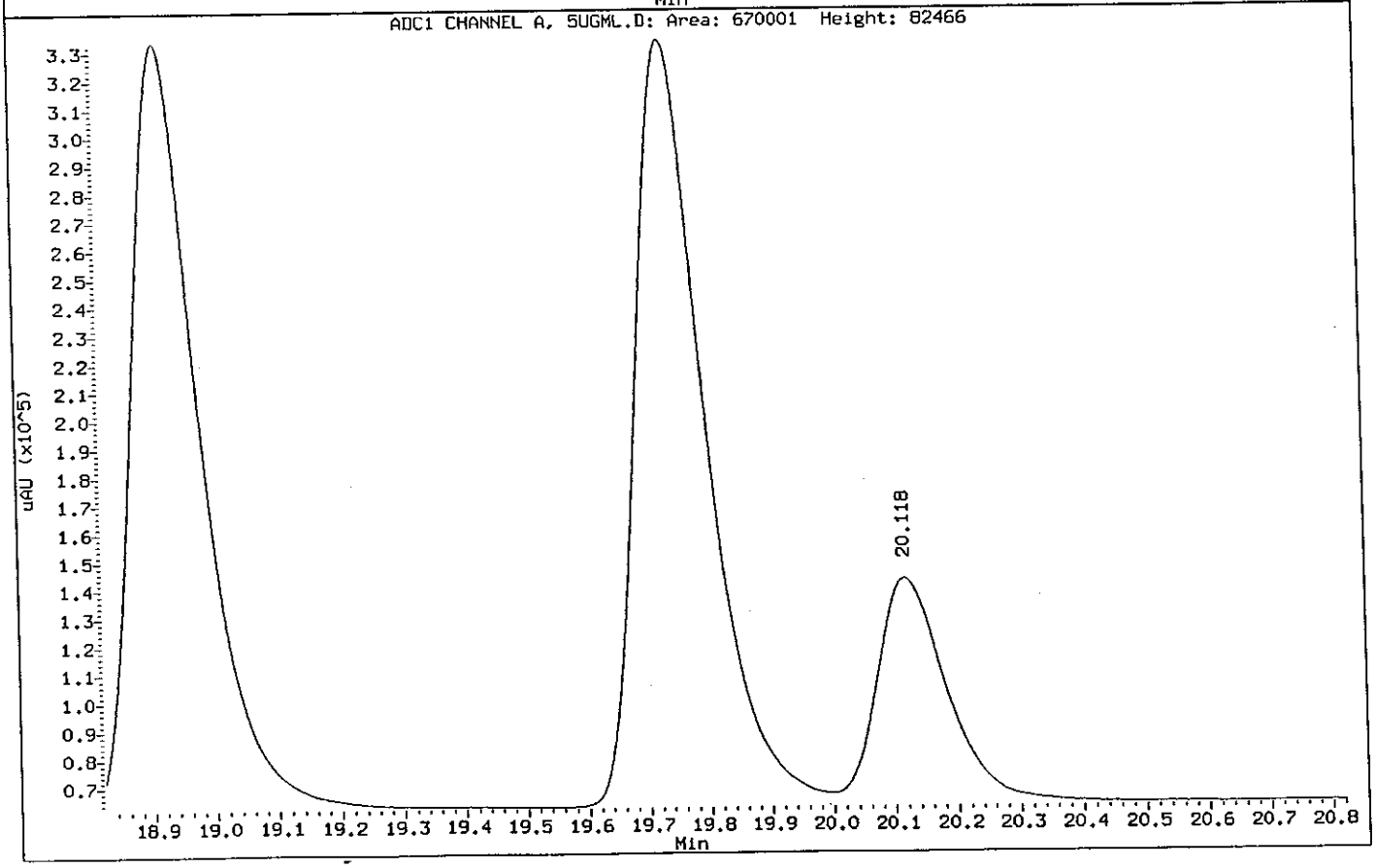
Instrument: slc02.i
Client Sample ID: 5st2854

Compound: Chrysene
CAS Number: 218-01-9





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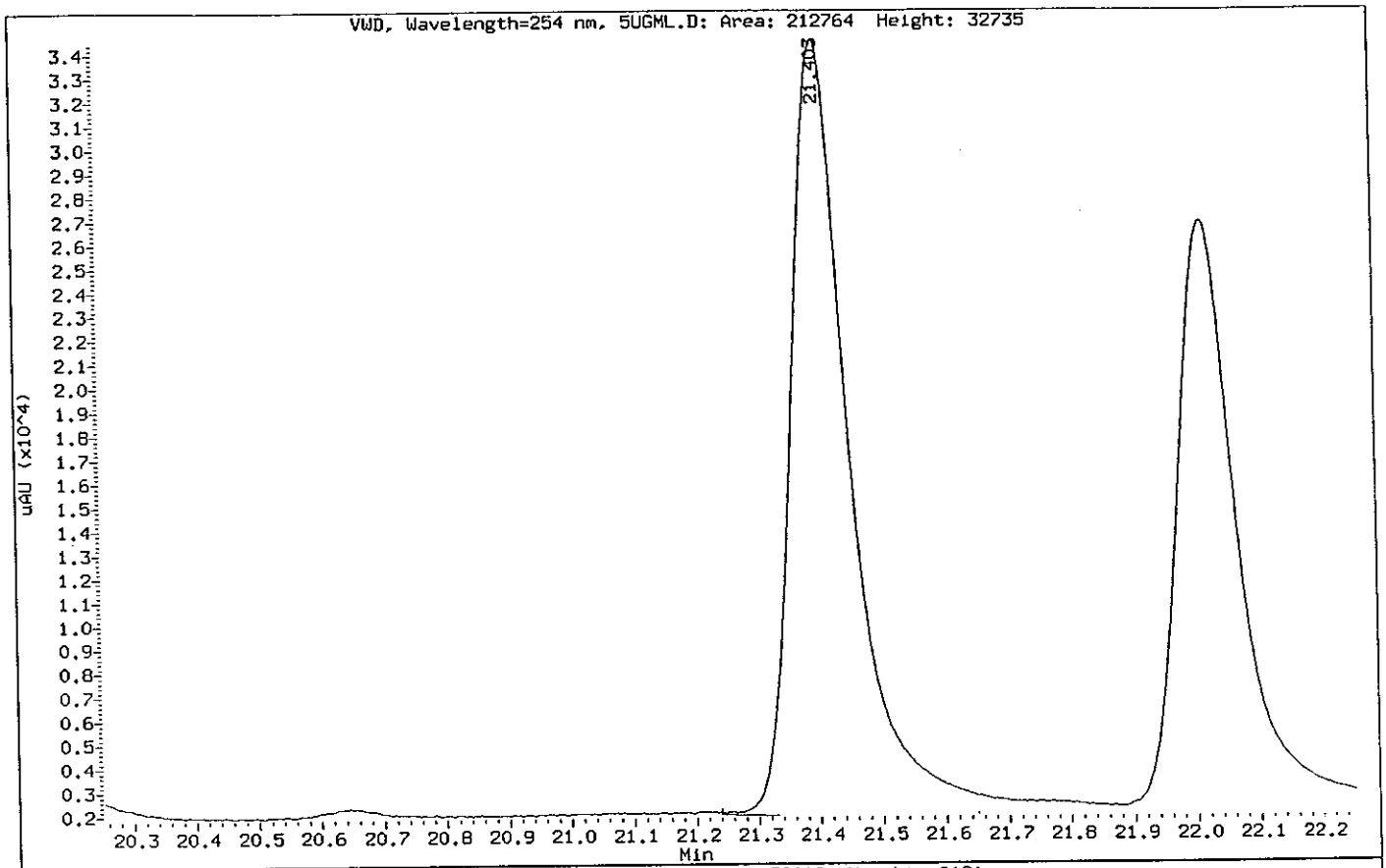
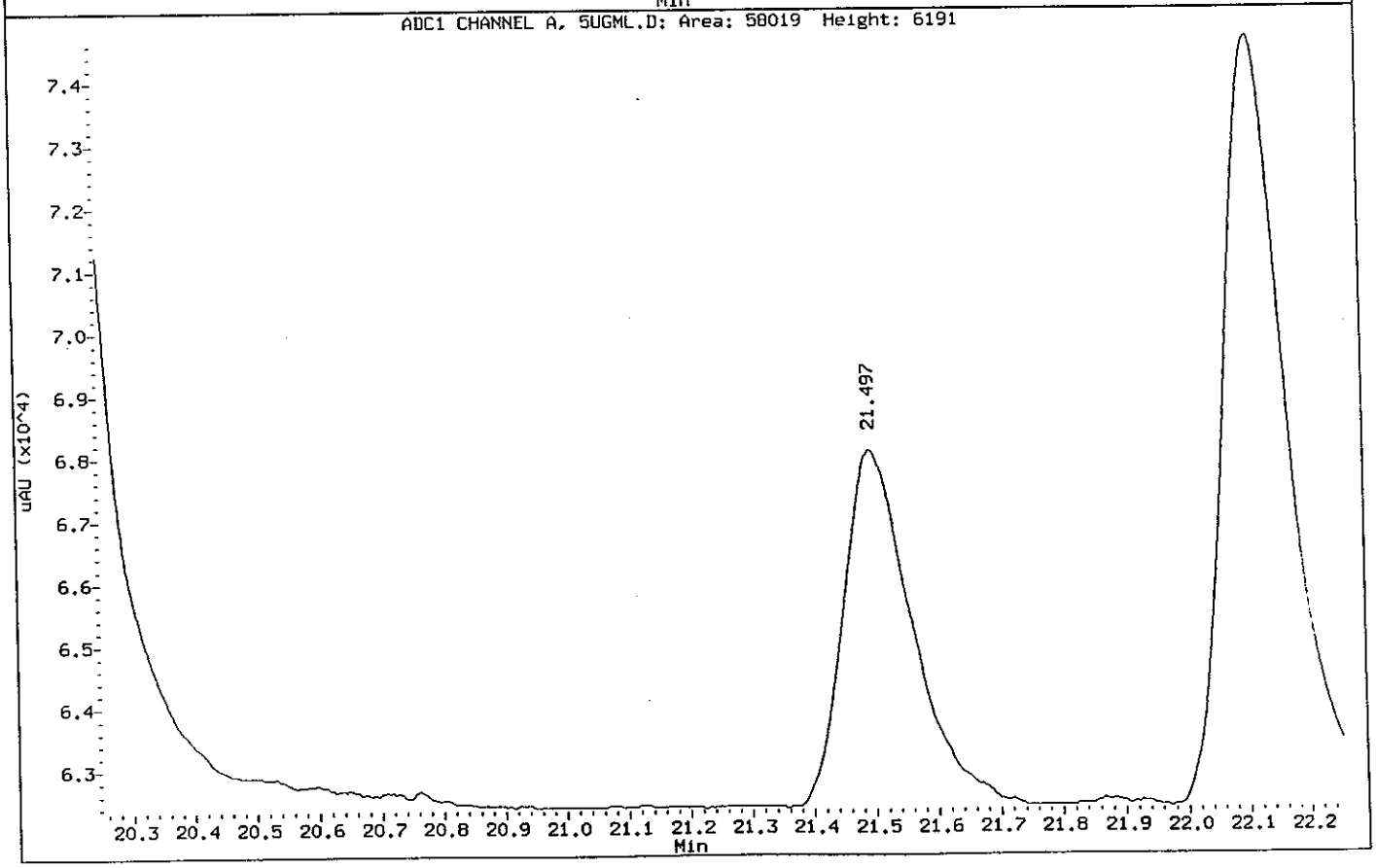
Injection Date: 28-OCT-2001 19:52
Instrument: slc02.i
Client Sample ID: 5st2854

Compound: Benzo(b)Fluoranthene
CAS Number: 205-99-2





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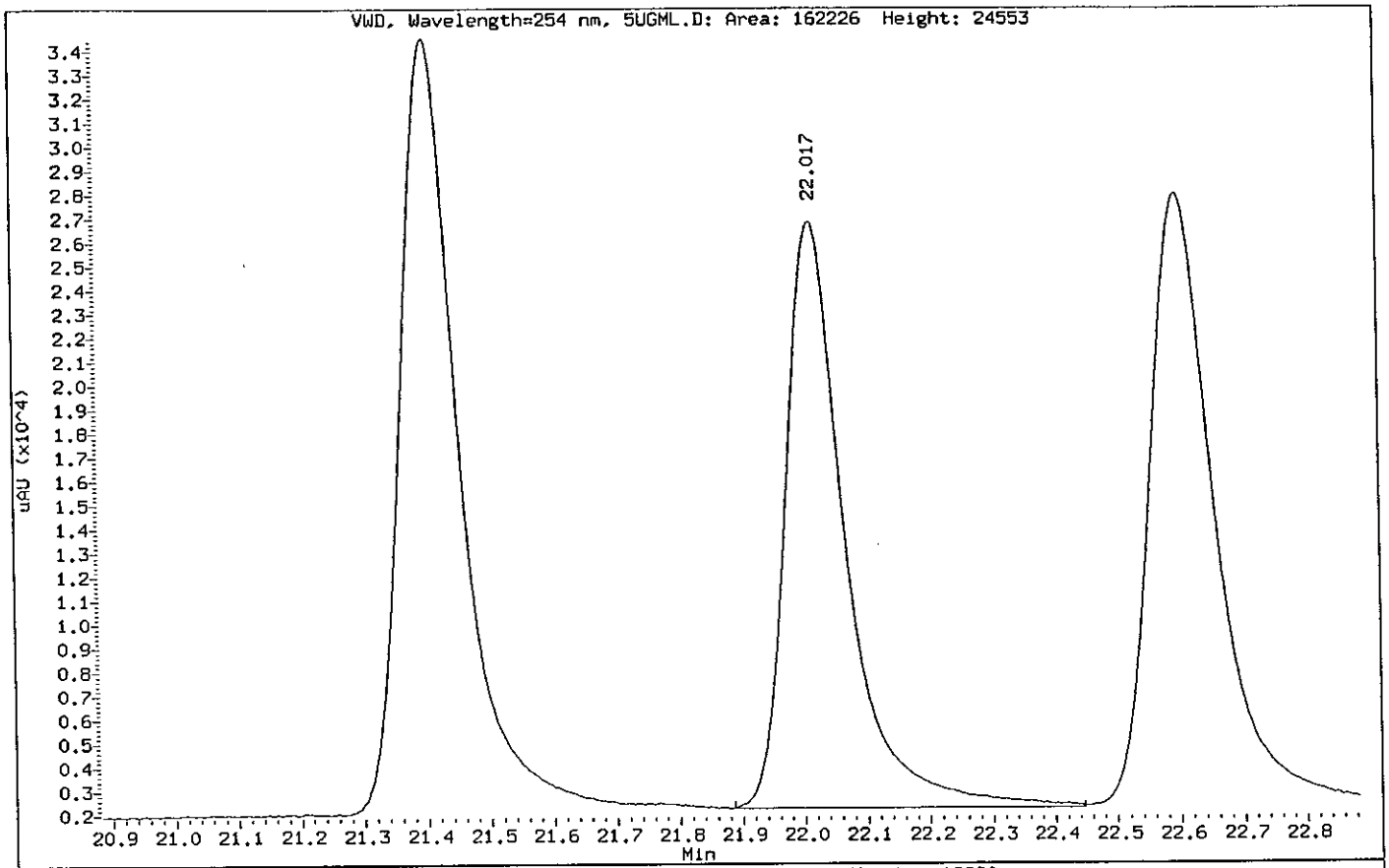
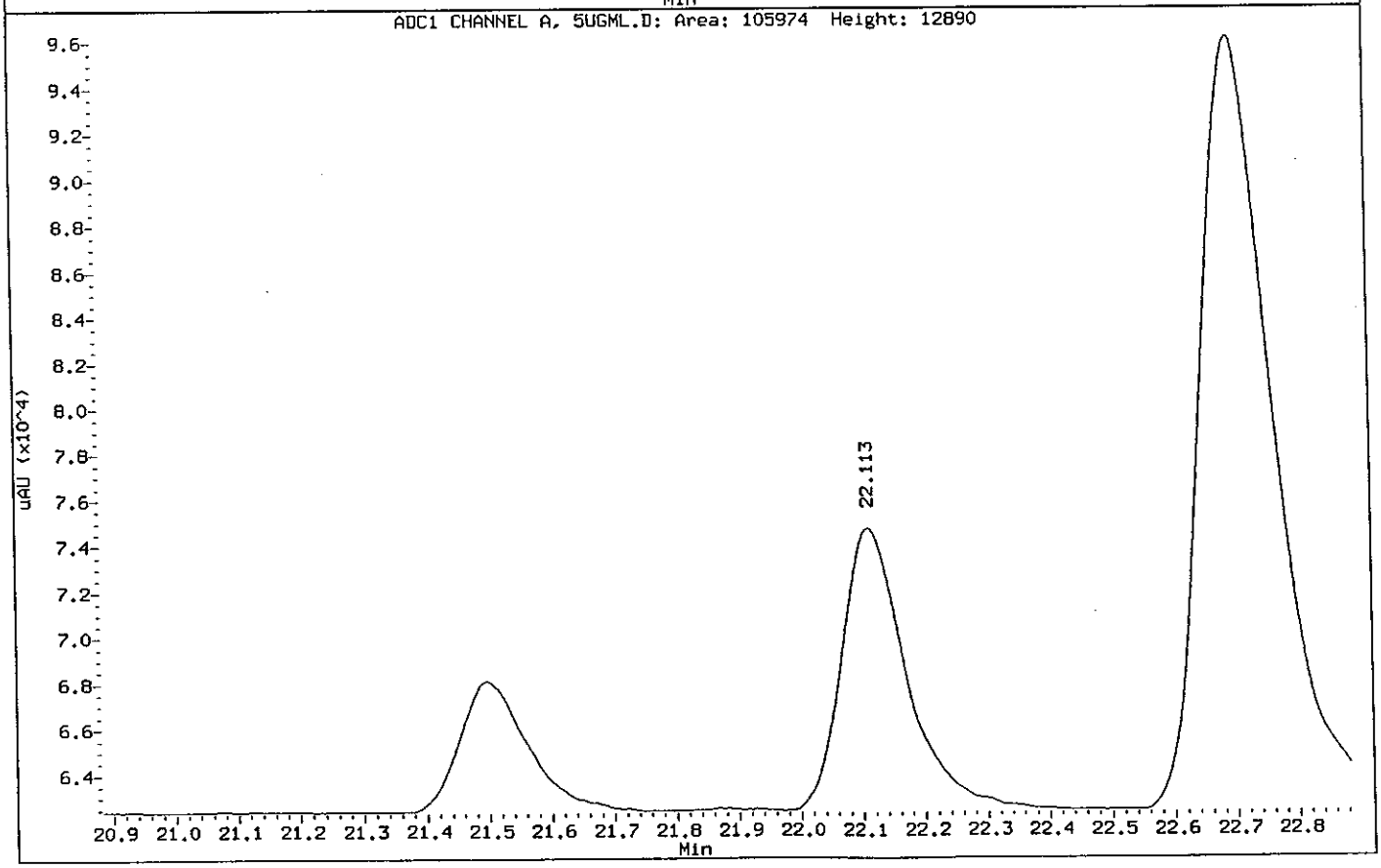
Injection Date: 28-OCT-2001 19:52
Instrument: slc02.i
Client Sample ID: 5st2854

Compound: Benzo(k)Fluoranthene
CAS Number: 207-08-9





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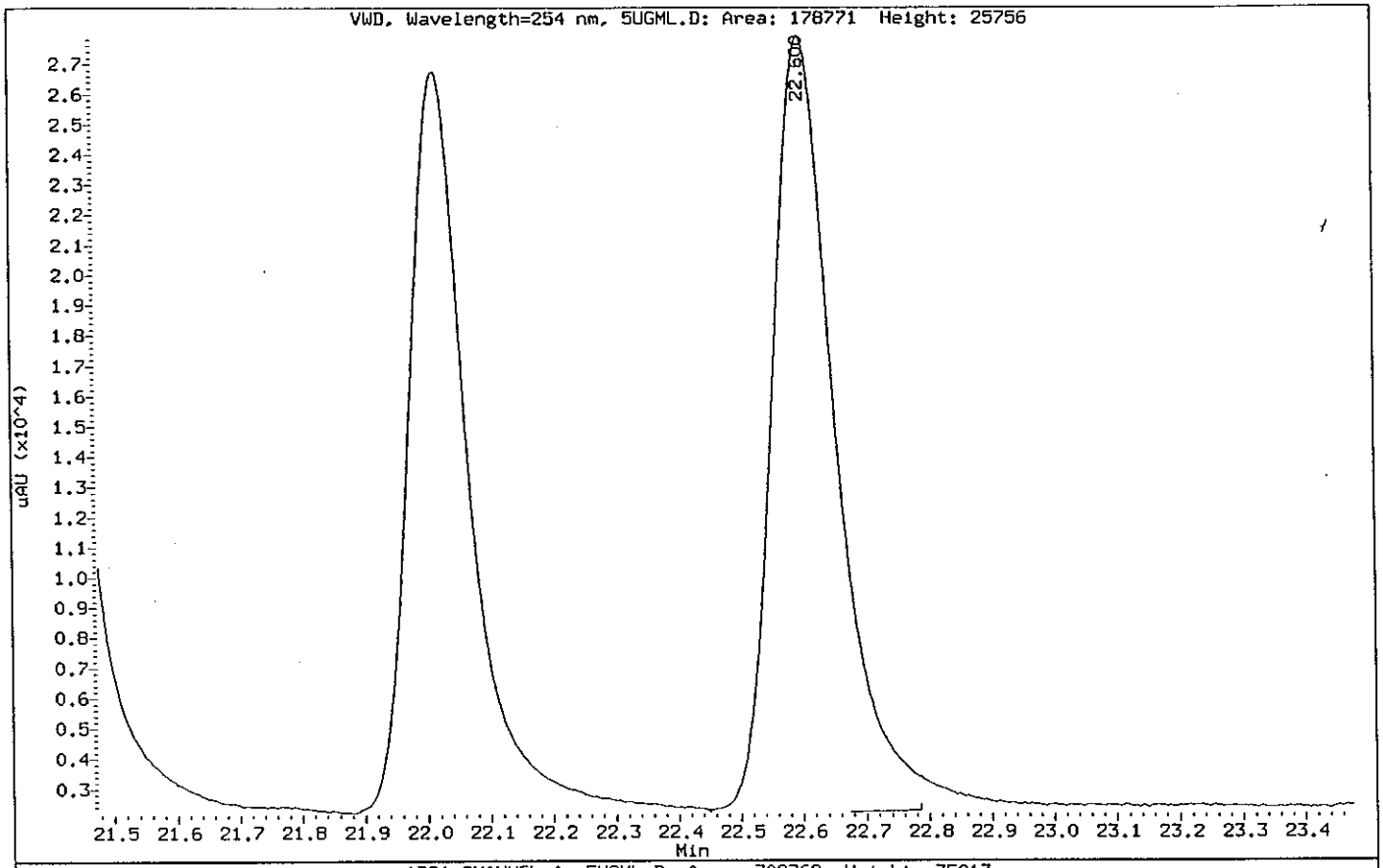
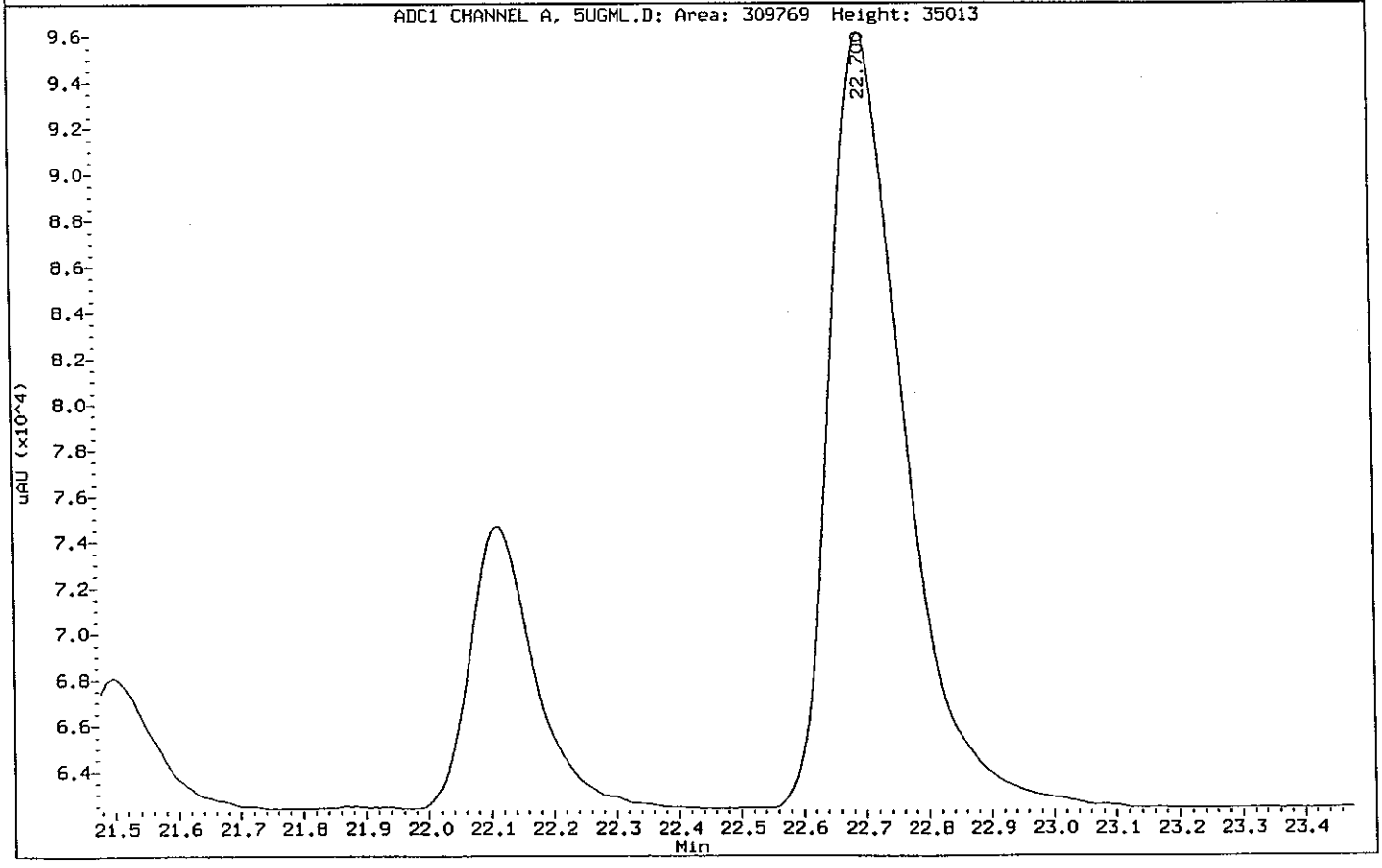
Injection Date: 28-OCT-2001 19:52
Instrument: slc02.i
Client Sample ID: 5st2854

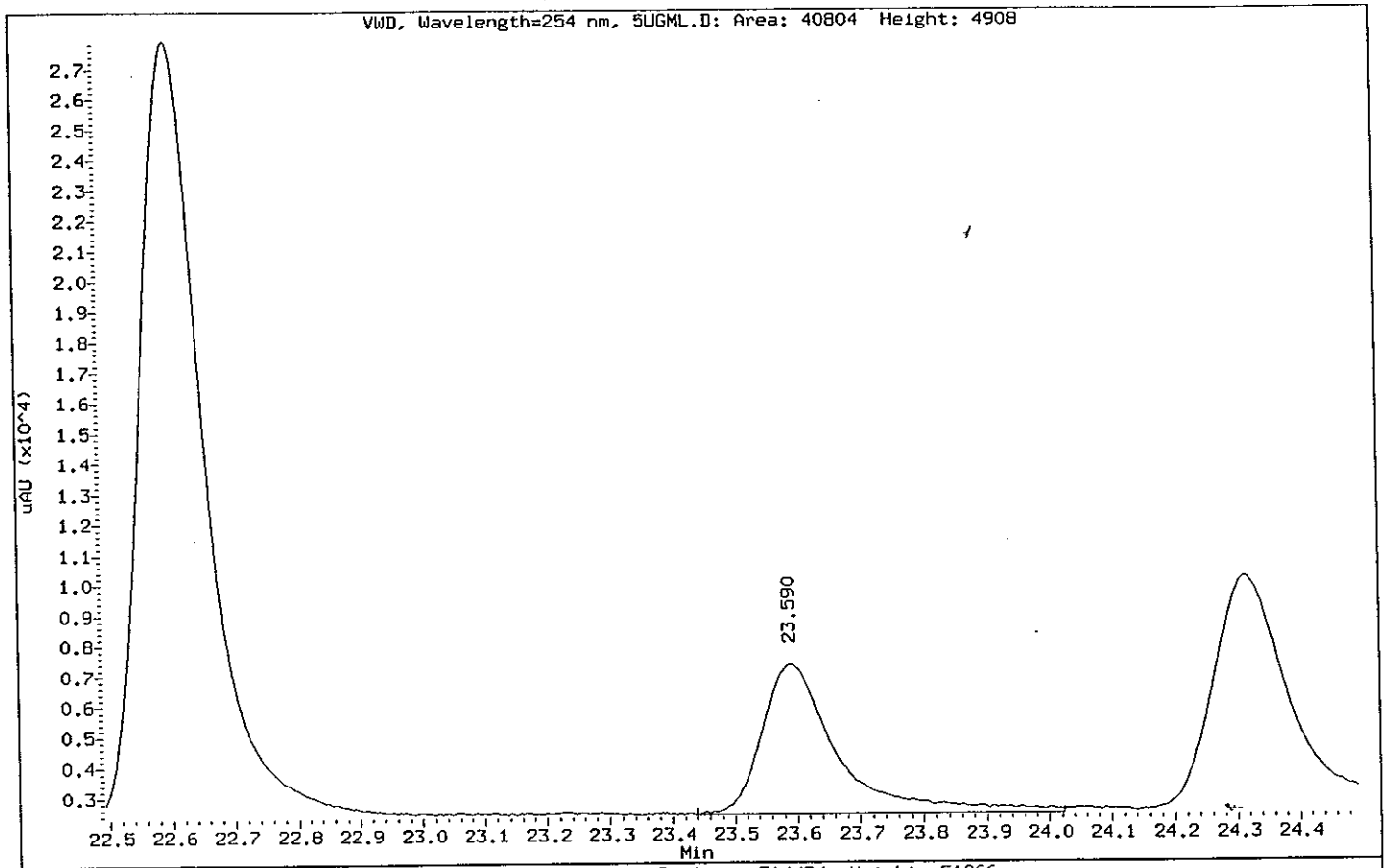
Compound: Benzo(a)pyrene
CAS Number: 50-32-8

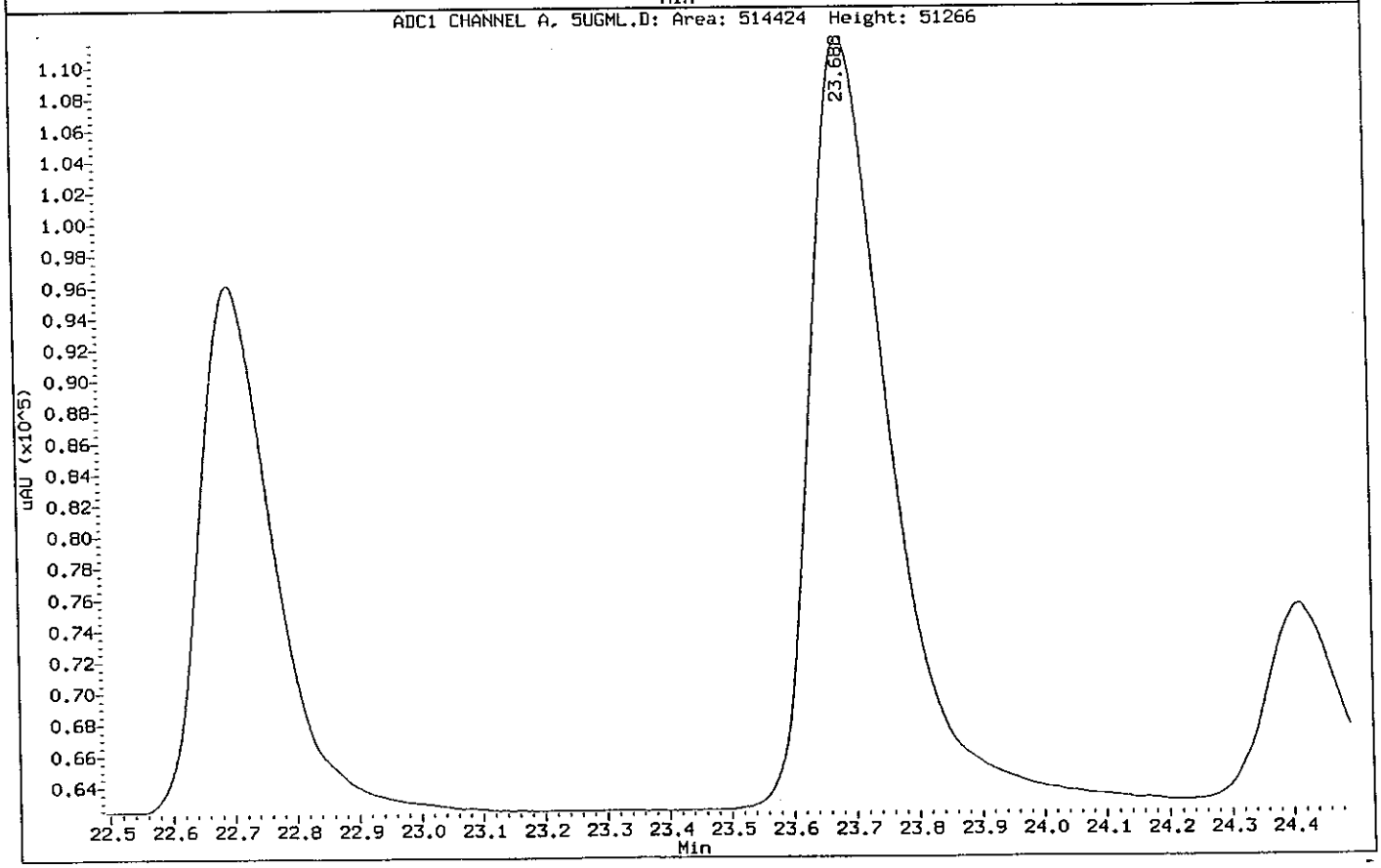




Data File: \\SVHPLC\ee\chem\slc02.i\recal1028s\5UGML.D
Injection Date: 28-OCT-2001 19:52
Instrument: slc02.i
Client Sample ID: 5st2854

Compound: Dibenz(ah)Anthracene
CAS Number: 53-70-3





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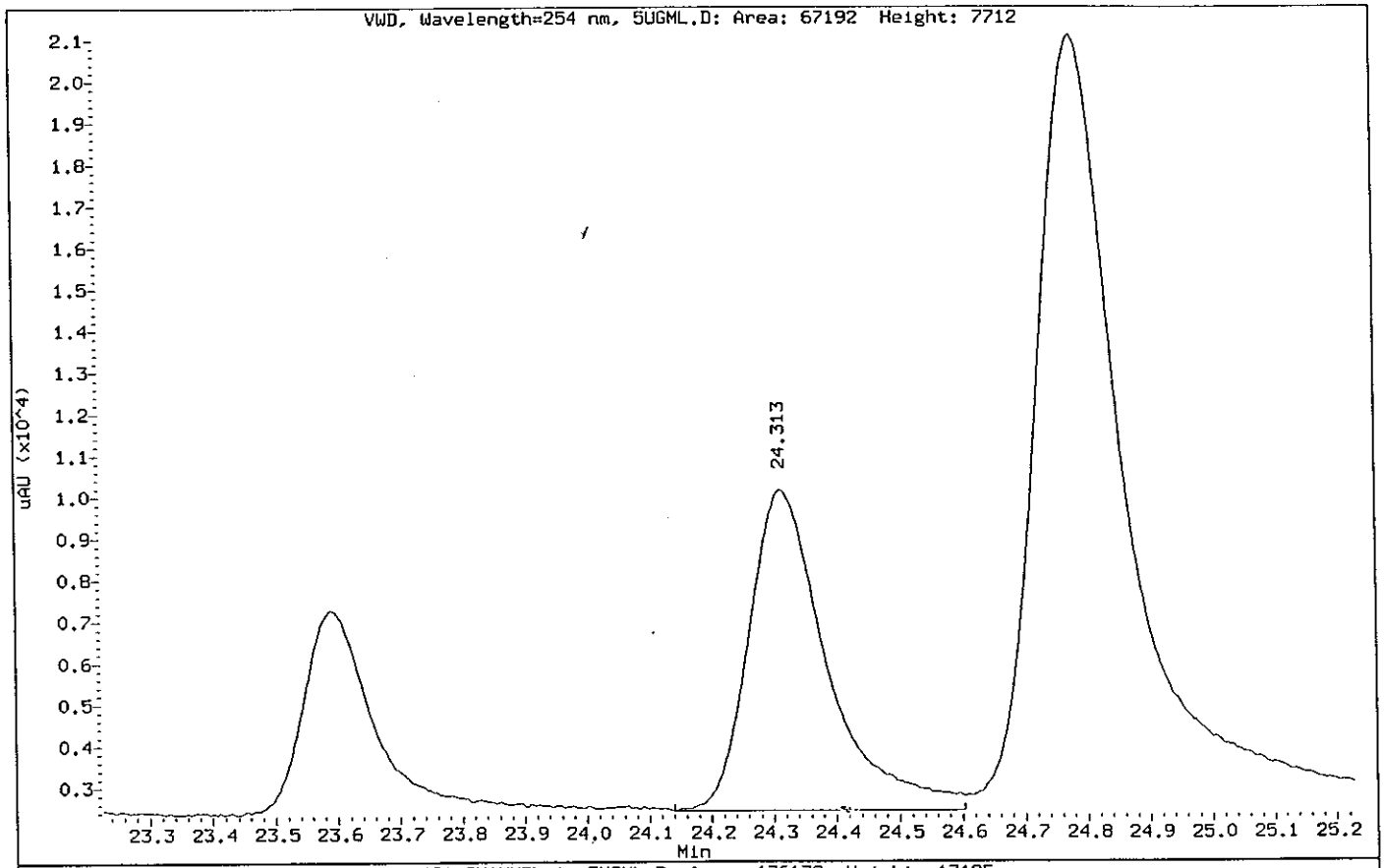
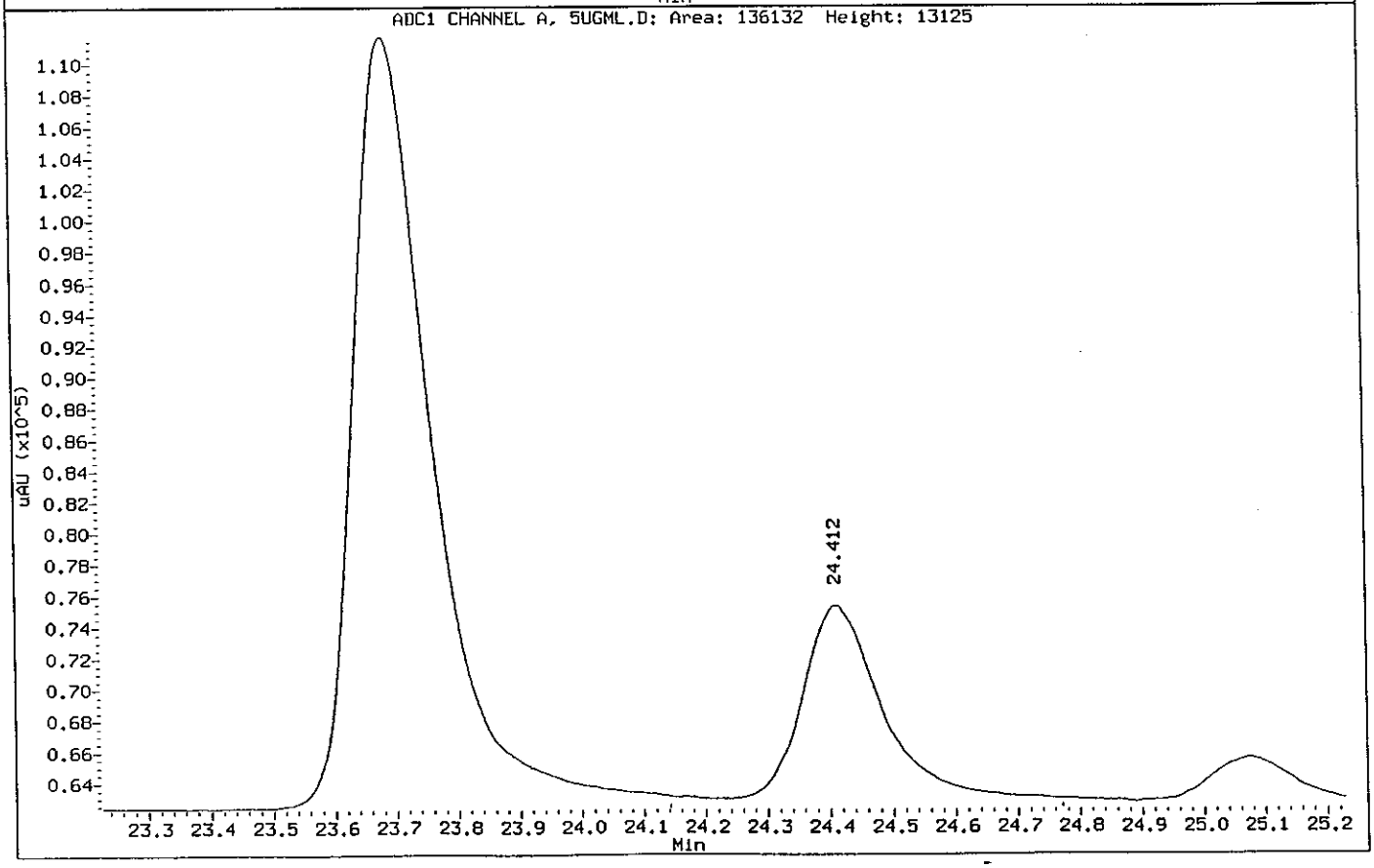
Injection Date: 28-OCT-2001 19:52
Instrument: slc02.i
Client Sample ID: 5st2854

Compound: Benzo(ghi)Perylene
CAS Number: 191-24-2





PEL Laboratories

Data file : \\SVHPLC\ee\chem\slc02.i\recal1028s\PT2UGML.D
Lab Smp Id: 0.2st2856 Client Smp ID: 0.2st2856
Inj Date : 28-OCT-2001 20:26
Operator : rood Inst ID: slc02.i
Smp Info : 0.2st2856
Misc Info :
Comment :
Method : \\SVHPLC\ee\chem\slc02.i\recal1028s\8310S.m
Meth Date : 02-Nov-2001 08:37 jdonnelly Quant Type: ISTD
Cal Date : 28-OCT-2001 20:26 Cal File: PT2UGML.D
Als bottle: 6 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.04 Sample Matrix: SOIL
Processing Host: SVHPLC

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

					AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	
* 1 Carbazole (ISTD)							CAS #: 86-74-8		
11.483	10.610	(1.000)	VWD1A	240327			80.00- 120.00	100.00	(M)
11.570	10.610	(1.008)	ADC1A	1946072	10.0000		652.03- 978.05	809.76	
2 Naphthalene							CAS #: 91-20-3		
12.453	11.770	(1.084)	VWD1A	1056	0.20000	0.19	80.00- 120.00	100.00	(M)
12.552	11.770	(1.093)	ADC1A	1154	0.20000	0.19	82.40- 123.60	109.28	
3 Acenaphthylene							CAS #: 208-96-8		
13.593	13.013	(1.184)	VWD1A	762	0.20000	0.19			(M)
4 1-Methyl naphthalene							CAS #: 90-12-0		
14.173	13.633	(1.234)	VWD1A	676	0.20000	0.20	80.00- 120.00	100.00	(aM)
14.239	13.633	(1.240)	ADC1A	2188	0.20000	0.18	0.39- 0.59	323.67	

RT	EXP RT	REL RT	SIGNAL	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO
5 2-Methyl naphthalene						CAS #: 91-57-6		
14.470	13.973	(1.260)	VWD1A	1001	0.20000	0.21	80.00- 120.00	100.00(aM)
14.552	13.973	(1.267)	ADC1A	1751	0.20000	0.17	191.55- 287.32	174.93
6 Acenaphthene						CAS #: 83-32-9		
14.803	14.310	(1.289)	VWD1A	411	0.20000	0.19	80.00- 120.00	100.00(M)
14.877	14.310	(1.296)	ADC1A	4532	0.20000	0.18	964.12-1446.17	1102.68
7 Fluorene						CAS #: 86-73-7		
15.120	14.680	(1.317)	VWD1A	4917	0.20000	0.20	80.00- 120.00	100.00(M)
15.134	14.680	(1.318)	ADC1A	652	0.20000	0.22	9.06- 13.59	13.26
8 Phenanthrene						CAS #: 85-01-8		
15.896	15.500	(1.384)	VWD1A	14648	0.20000	0.21	80.00- 120.00	100.00(M)
15.984	15.500	(1.392)	ADC1A	11359	0.20000	0.17	78.58- 117.87	77.55
9 Anthracene						CAS #: 120-12-7		
16.583	16.223	(1.444)	VWD1A	58206			80.00- 120.00	100.00(M)
16.672	16.223	(1.452)	ADC1A	2279	0.20000	0.23	5.00- 7.50	3.92
10 Fluoranthene						CAS #: 206-44-0		
17.390	17.066	(1.514)	VWD1A	3236	0.20000	0.20	80.00- 120.00	100.00(TM)
0.000	17.066	(0.000)	ADC1A	0			6.36- 9.54	0.00
11 Pyrene						CAS #: 129-00-0		
17.906	17.606	(1.559)	VWD1A	2499	0.20000	0.20	80.00- 120.00	100.00(M)
18.017	17.606	(1.569)	ADC1A	29967	0.20000	0.18	935.91-1403.86	1199.16
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.823	18.593	(1.639)	VWD1A	2590	0.20000	0.18	80.00- 120.00	100.00(M)
18.920	18.593	(1.648)	ADC1A	71832	0.20000	0.18	2246.35-3369.53	2773.44
13 Benzo(a)Anthracene						CAS #: 56-55-3		
19.640	19.426	(1.710)	VWD1A	7580	0.20000	0.20	80.00- 120.00	100.00(M)
19.740	19.426	(1.719)	ADC1A	68260	0.20000	0.16	881.58-1322.37	900.53
14 Chrysene						CAS #: 218-01-9		
20.026	19.820	(1.744)	VWD1A	10482	0.20000	0.19	80.00- 120.00	100.00(M)
20.117	19.820	(1.752)	ADC1A	25499	0.20000	0.19	190.14- 285.21	243.26
15 Benzo(b)Fluoranthene						CAS #: 205-99-2		
21.420	21.253	(1.865)	VWD1A	8169	0.20000	0.19	80.00- 120.00	100.00(M)
21.504	21.253	(1.873)	ADC1A	2011	0.20000	0.18	20.85- 31.28	24.62
16 Benzo(k)Fluoranthene						CAS #: 207-08-9		
22.020	21.883	(1.918)	VWD1A	6762	0.20000	0.21	80.00- 120.00	100.00(M)

					AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
RT	EXP RT	REL RT	SIGNAL	RESPONSE				
16 Benzo(k)Fluoranthene (continued)								
22.139	21.883	(1.928)	ADC1A	3847	0.20000	0.18	52.76- 79.15	56.89
17 Benzo(a)pyrene						CAS #: 50-32-8		
22.603	22.476	(1.968)	VWD1A	8030	0.20000	0.21	80.00- 120.00	100.00(M)
22.717	22.476	(1.978)	ADC1A	12675	0.20000	0.20	138.13- 207.19	157.84
18 Dibenz(ah)Anthracene						CAS #: 53-70-3		
23.583	23.493	(2.054)	VWD1A	1582	0.20000	0.19	80.00- 120.00	100.00(M)
23.724	23.493	(2.066)	ADC1A	16881	0.20000	0.17	949.04-1423.56	1067.07
19 Benzo(ghi)Perylene						CAS #: 191-24-2		
24.353	24.226	(2.121)	VWD1A	2854	0.20000	0.20	80.00- 120.00	100.00(M)
24.405	24.226	(2.125)	ADC1A	5233	0.20000	0.18	155.32- 232.98	183.36
20 Indeno(123cd)Pyrene						CAS #: 193-39-5		
24.823	24.703	(2.162)	VWD1A	6824	0.20000	0.19	80.00- 120.00	100.00(M)

QC Flag Legend

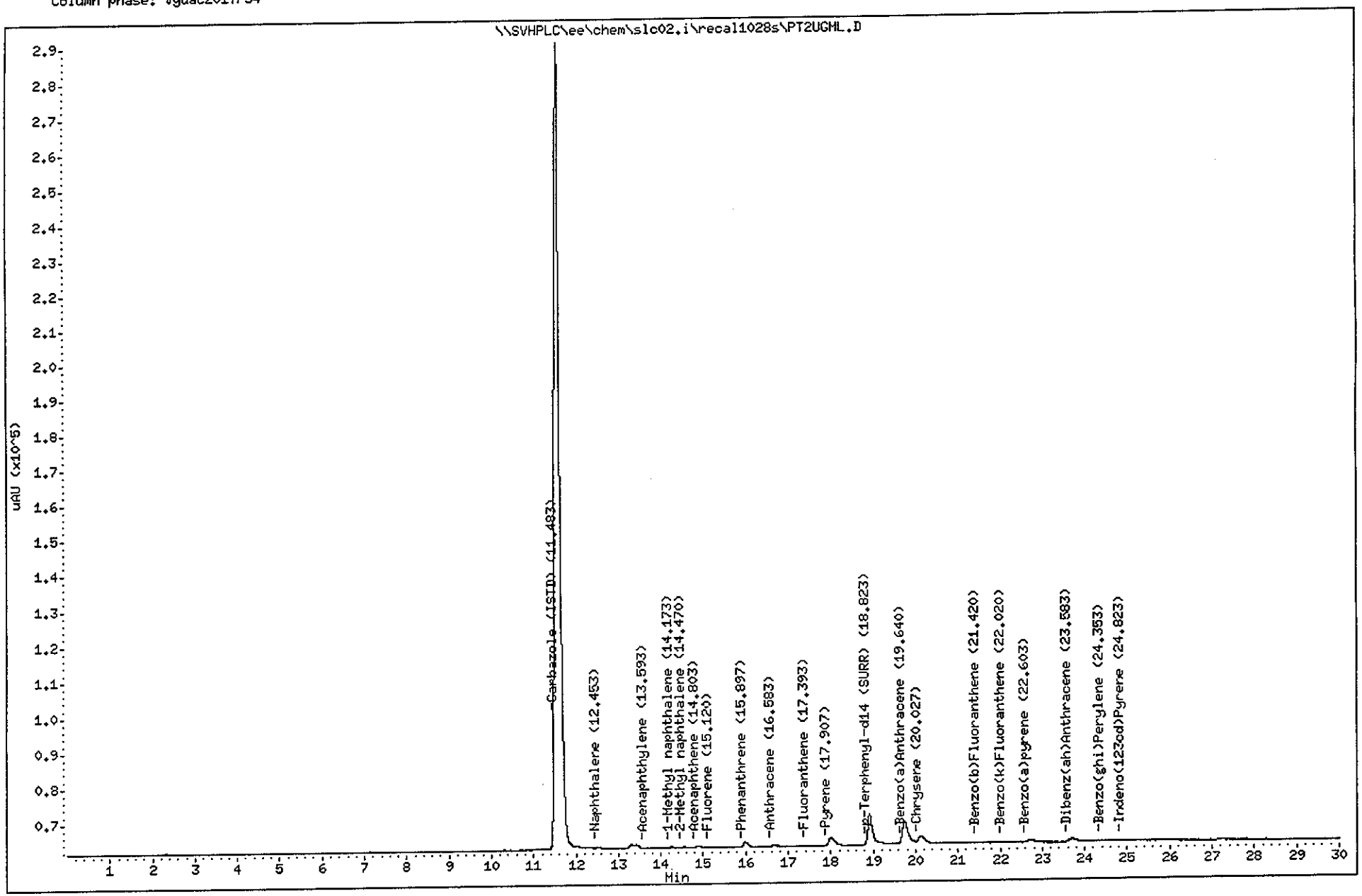
T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\SVHPLC\ee\chem\slc02.i\recal1028s\PT2UGML.D
Date : 28-OCT-2001 20:26
Client ID: 0.2st2856
Sample Info: 0.2st2856

Instrument: slc02.i

Operator: rood
Column diameter: 4.60

Column phase: Vydac201TP54



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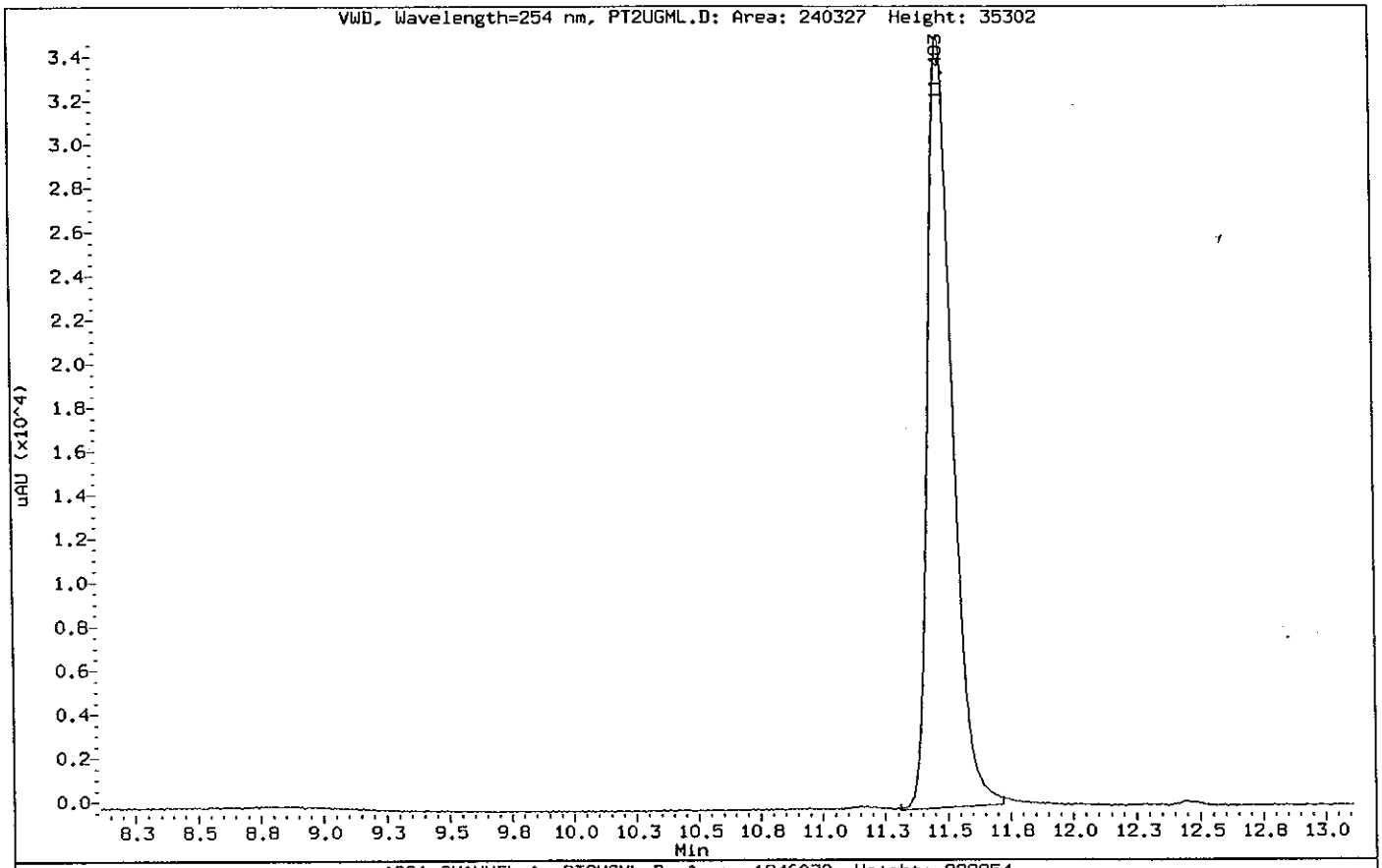
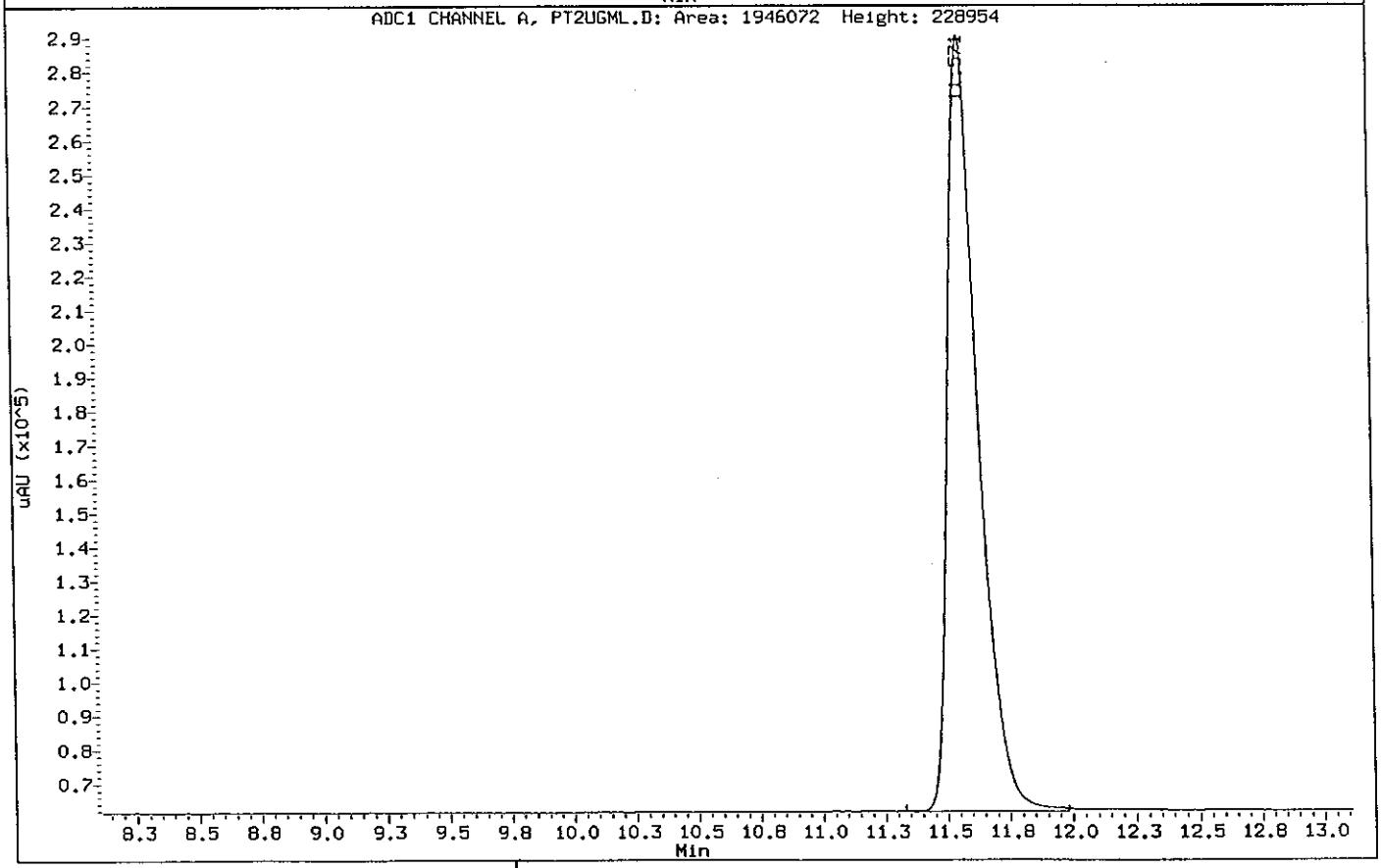
Instrument: slc02.i
Client Sample ID: 0.2st2856

Compound: Carbazole (ISTD)
CAS Number: 86-74-8





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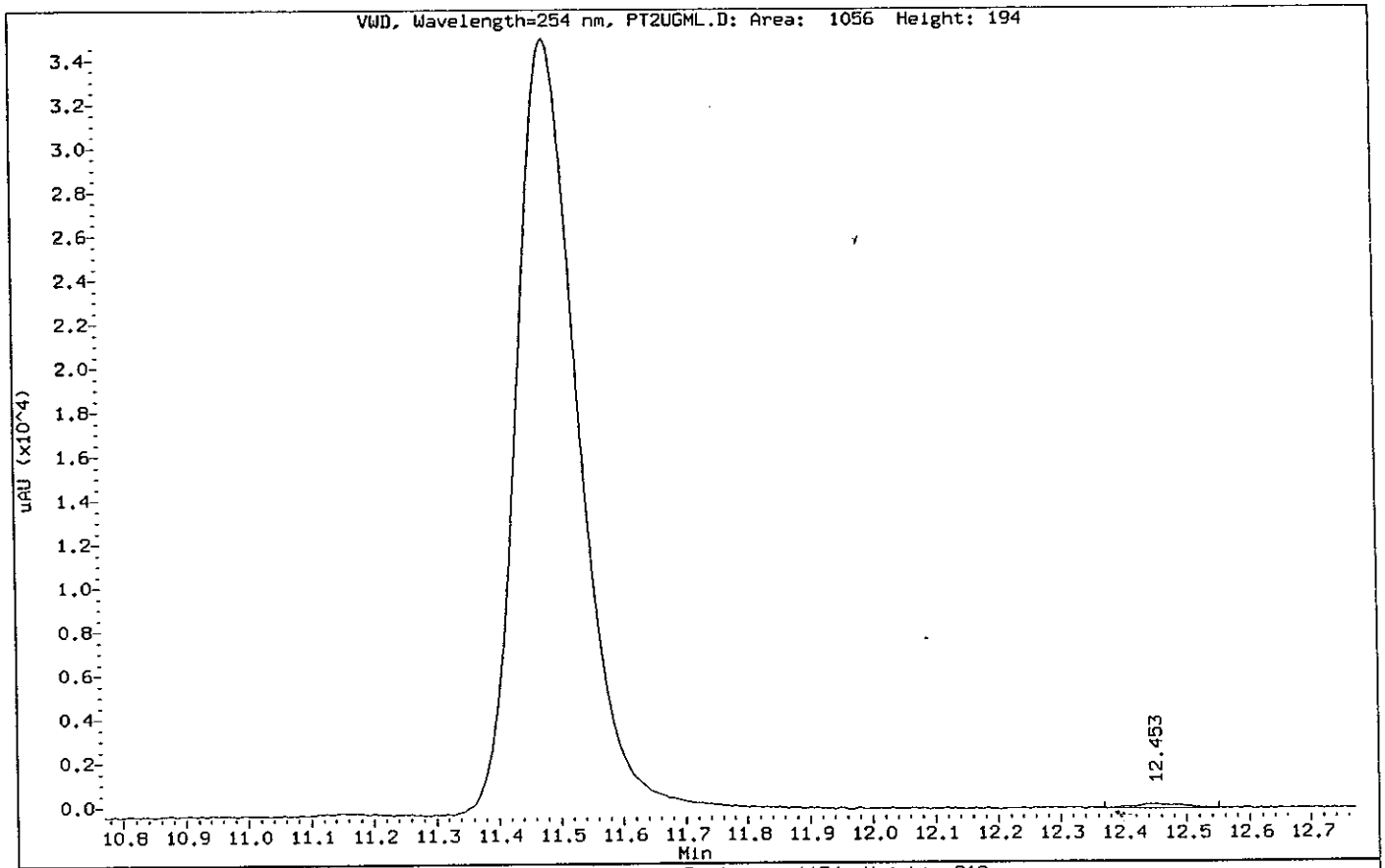
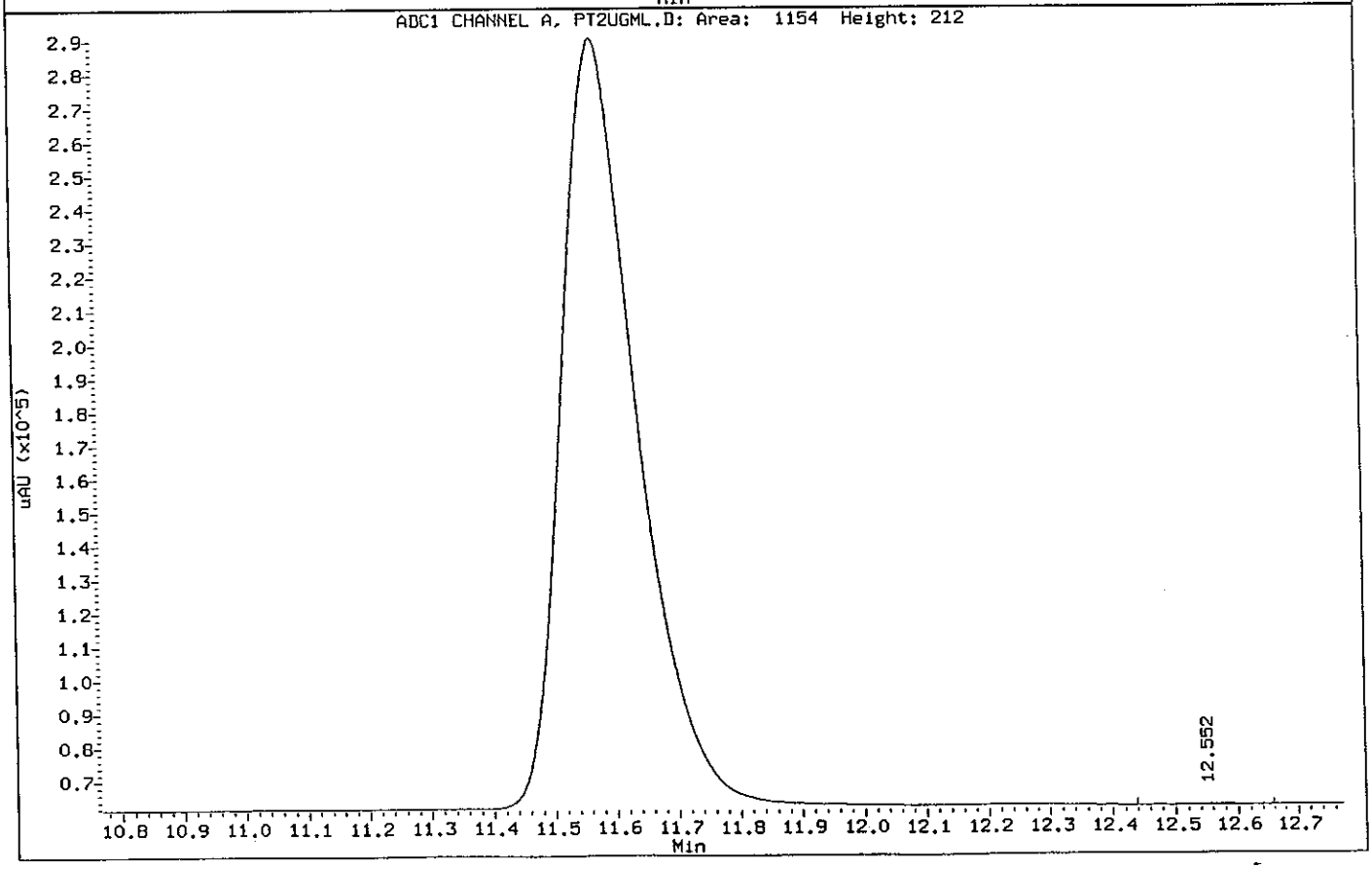
Instrument: slc02.i
Client Sample ID: 0.2st2856

Compound: Naphthalene
CAS Number: 91-20-3





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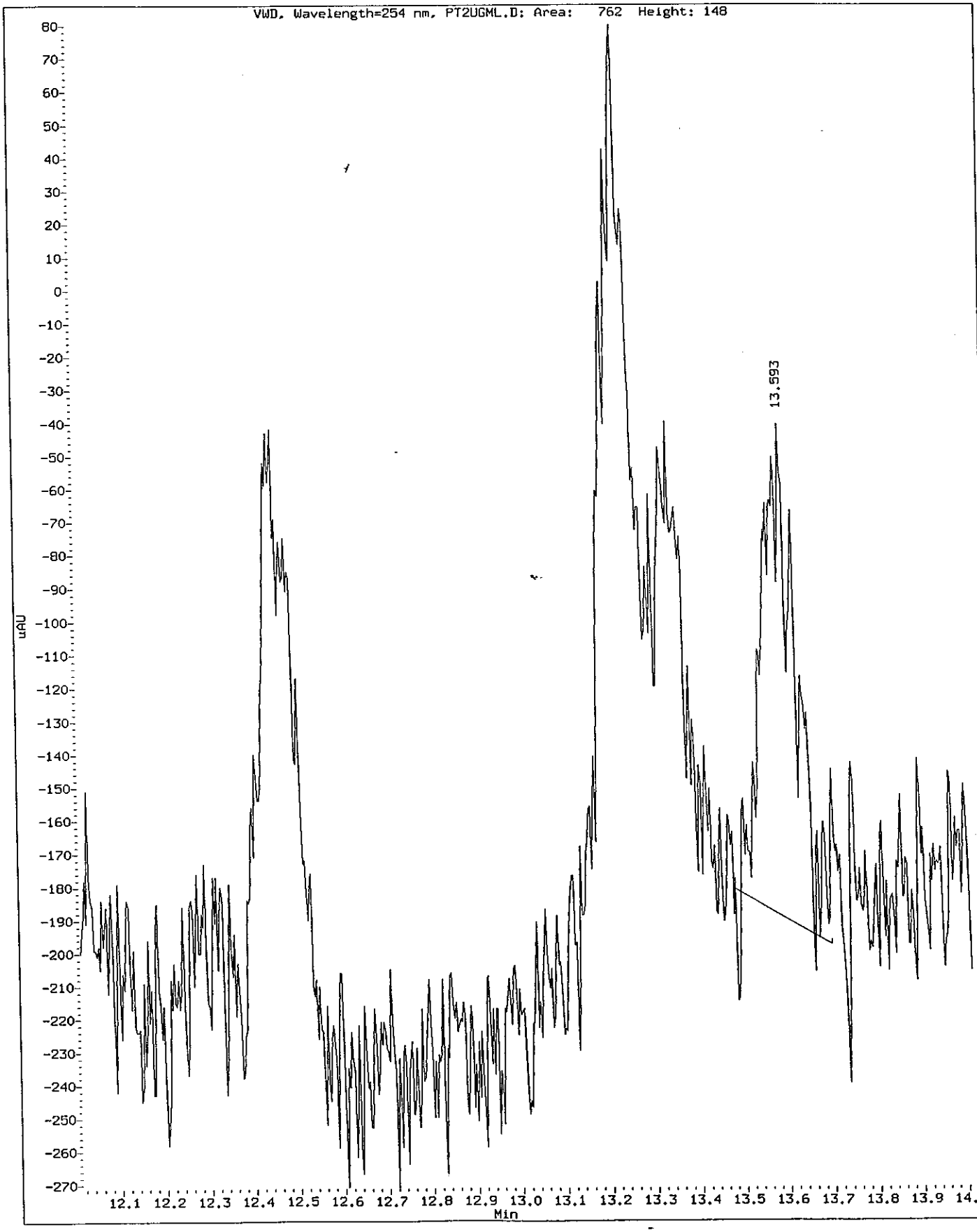
Instrument: slc02.i
Client Sample ID: 0.2st2856

Compound: Acenaphthylene
CAS Number: 208-96-8



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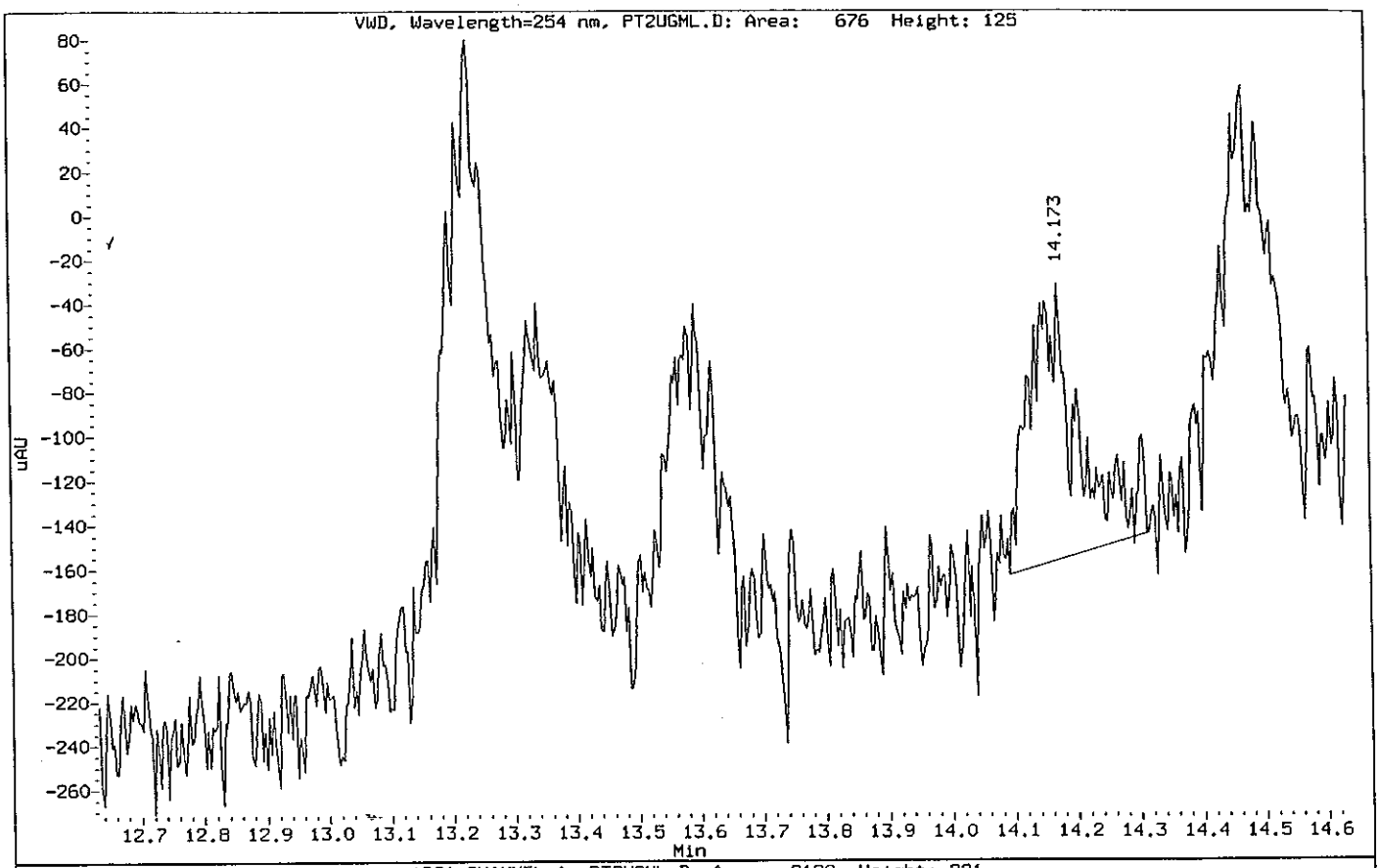
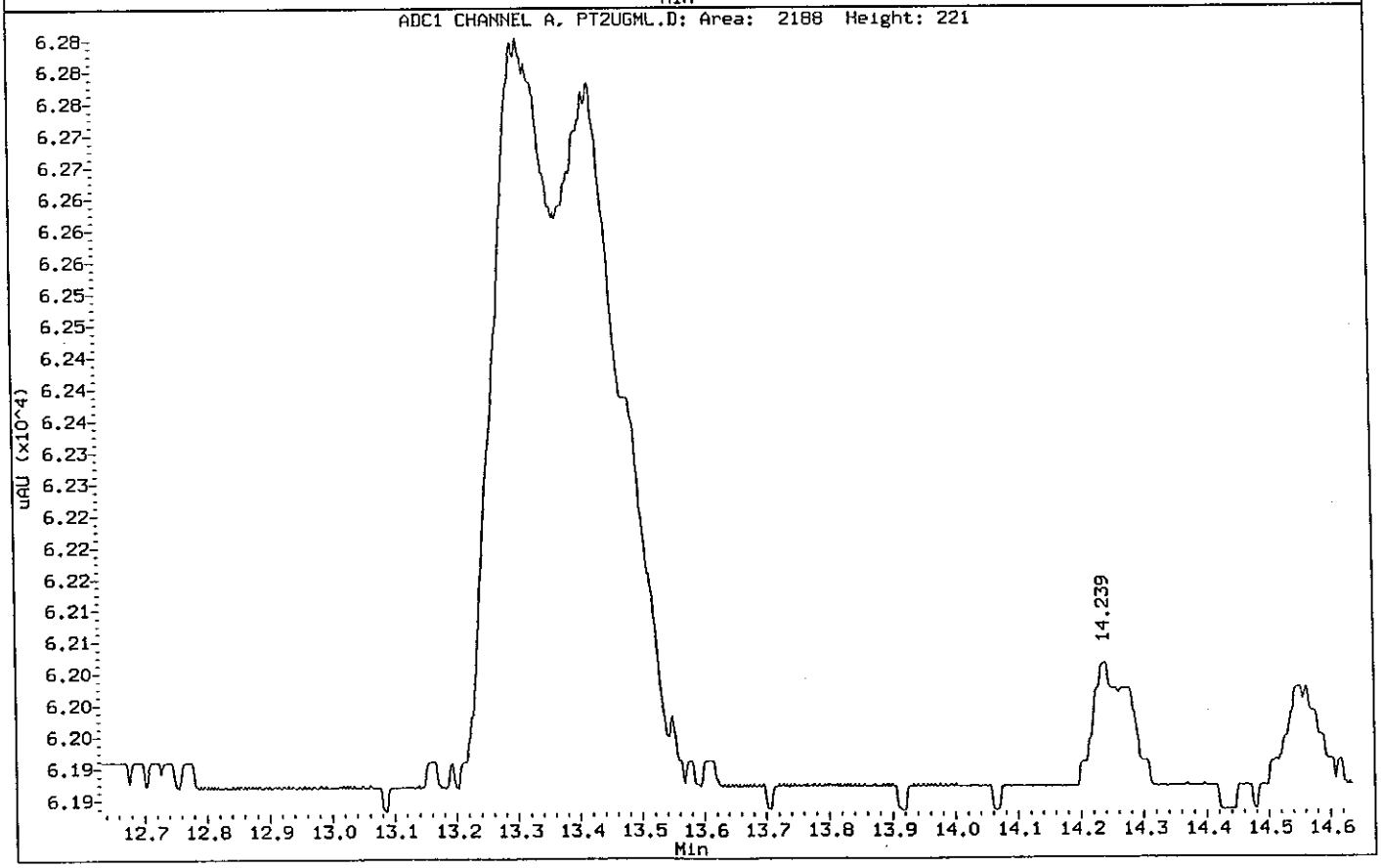
Instrument: slc02.i
Client Sample ID: 0.2st2856

Compound: 1-Methyl naphthalene
CAS Number: 90-12-0





JMD

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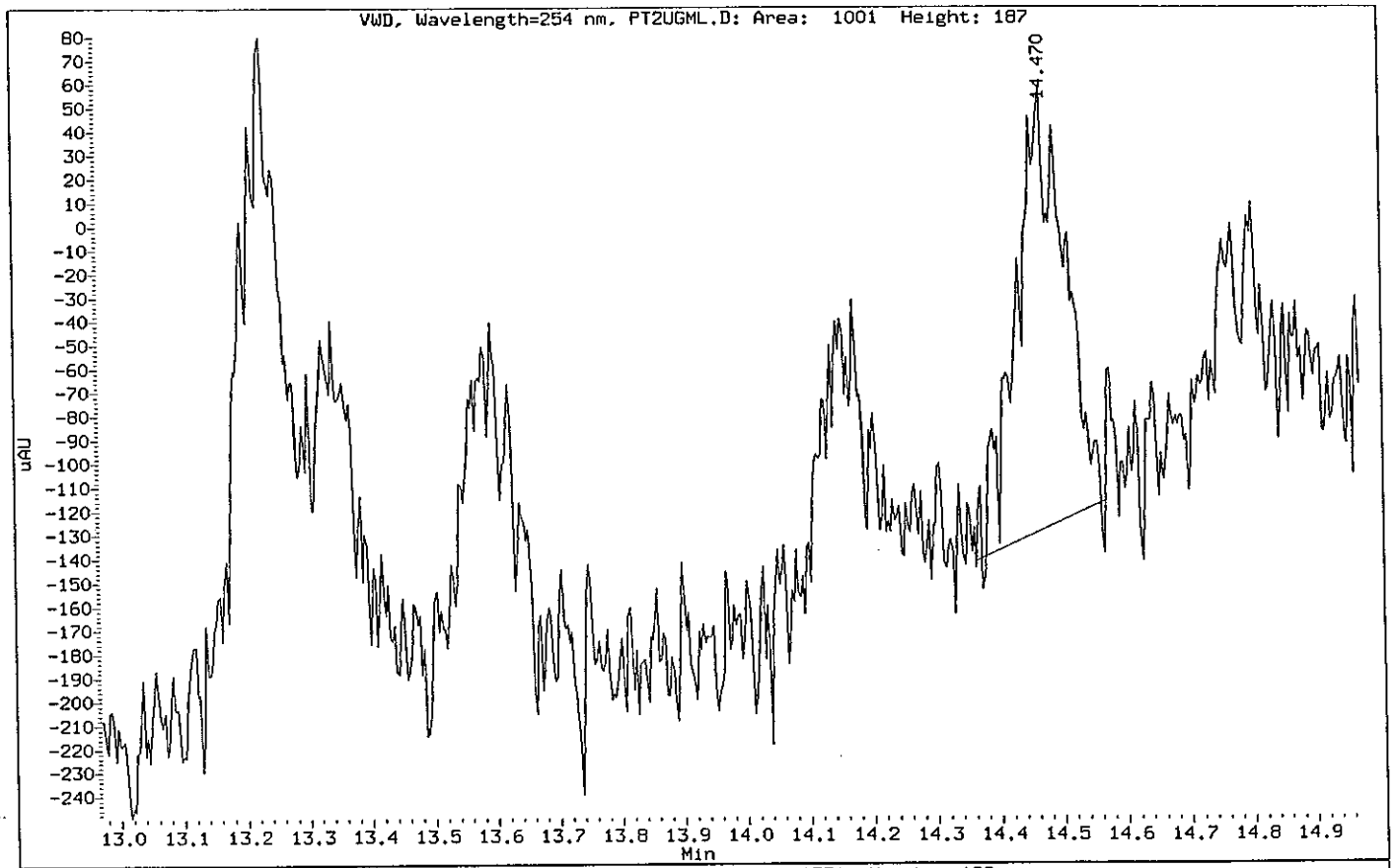
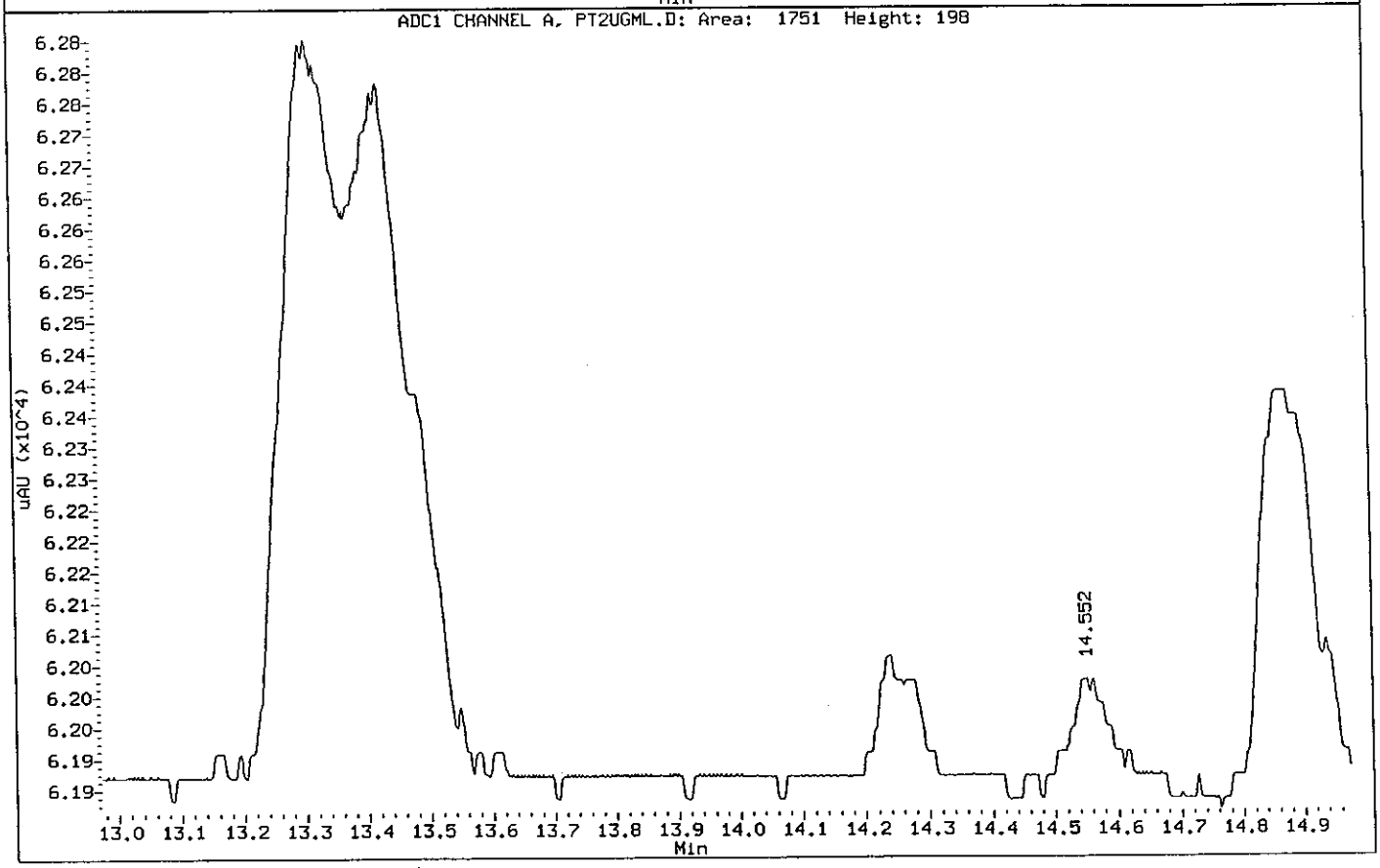
Instrument: slc02.i
Client Sample ID: 0.2st2856

Compound: 2-Methyl naphthalene
CAS Number: 91-57-6





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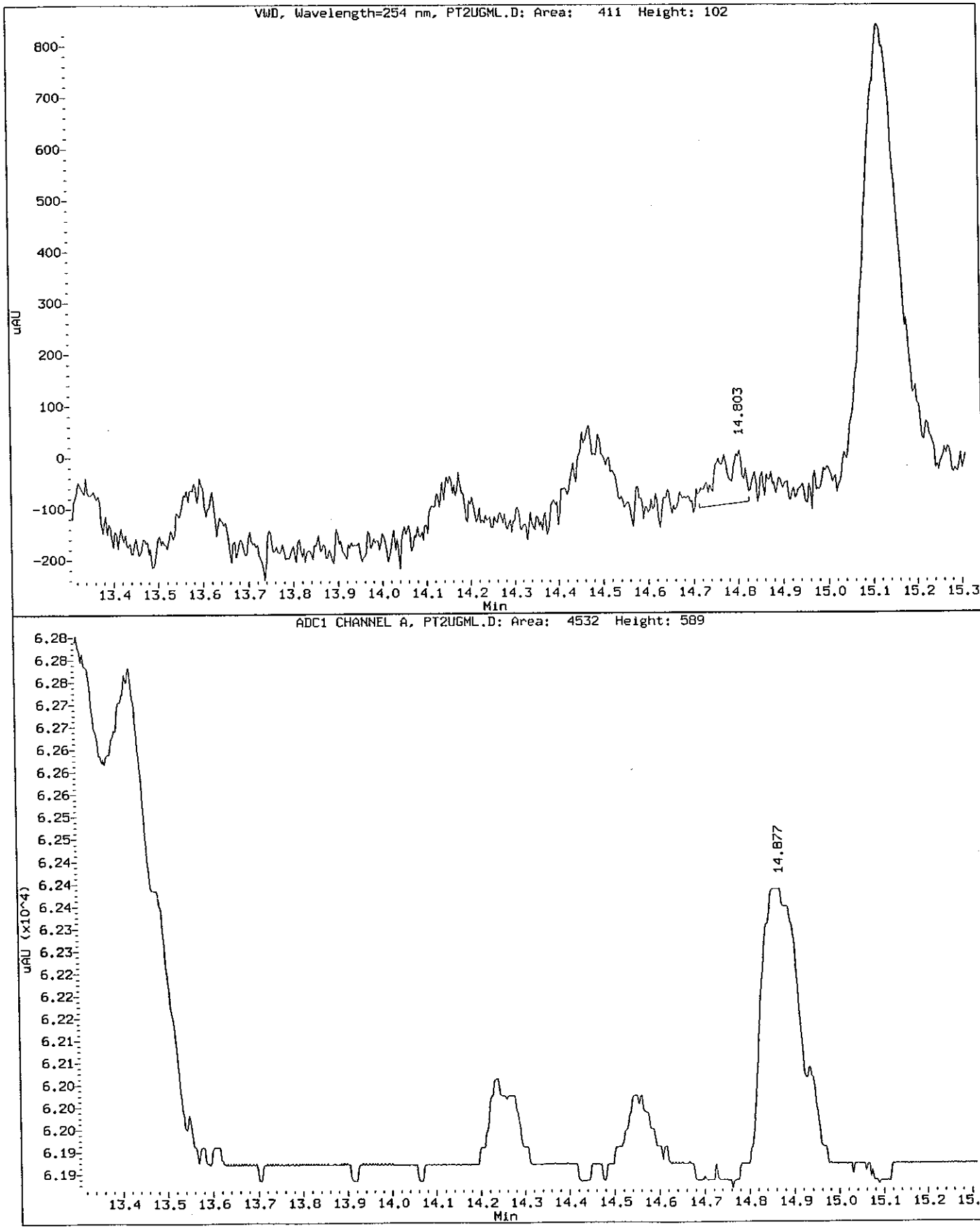
Instrument: slc02.i
Client Sample ID: 0.2st2856

Compound: Acenaphthene
CAS Number: 83-32-9



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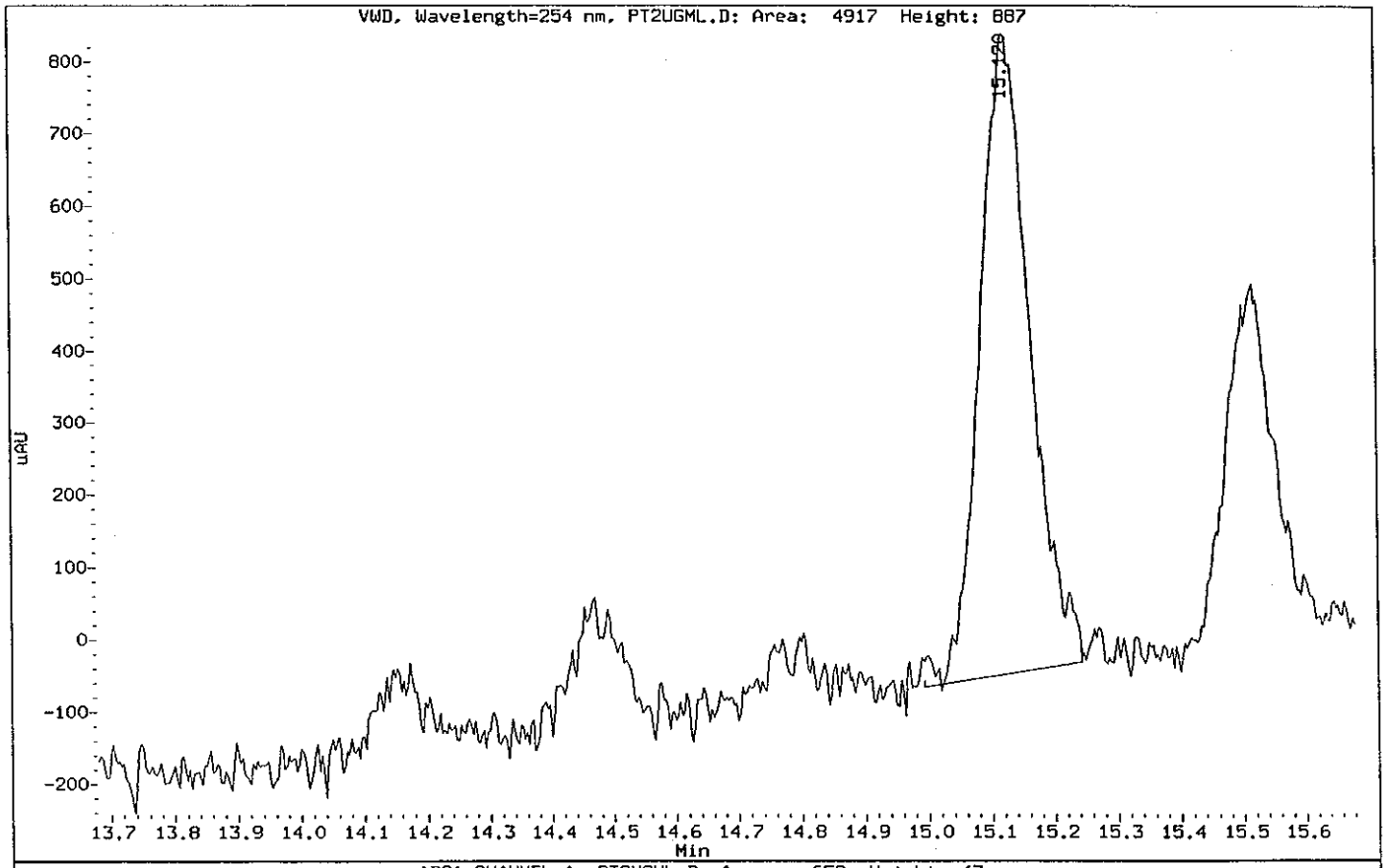
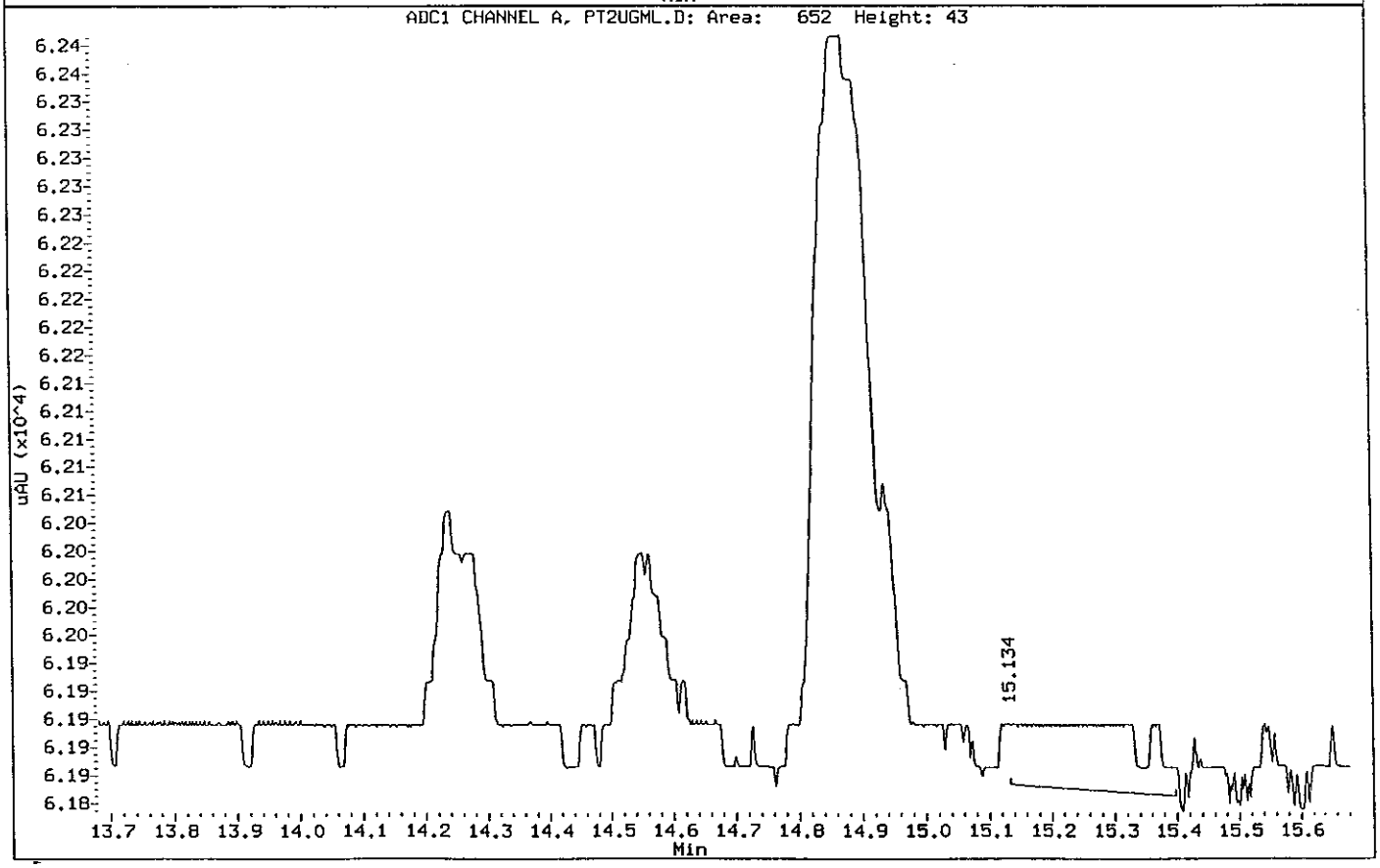
Instrument: slc02.i
Client Sample ID: 0.2st2856

Compound: Fluorene
CAS Number: 86-73-7





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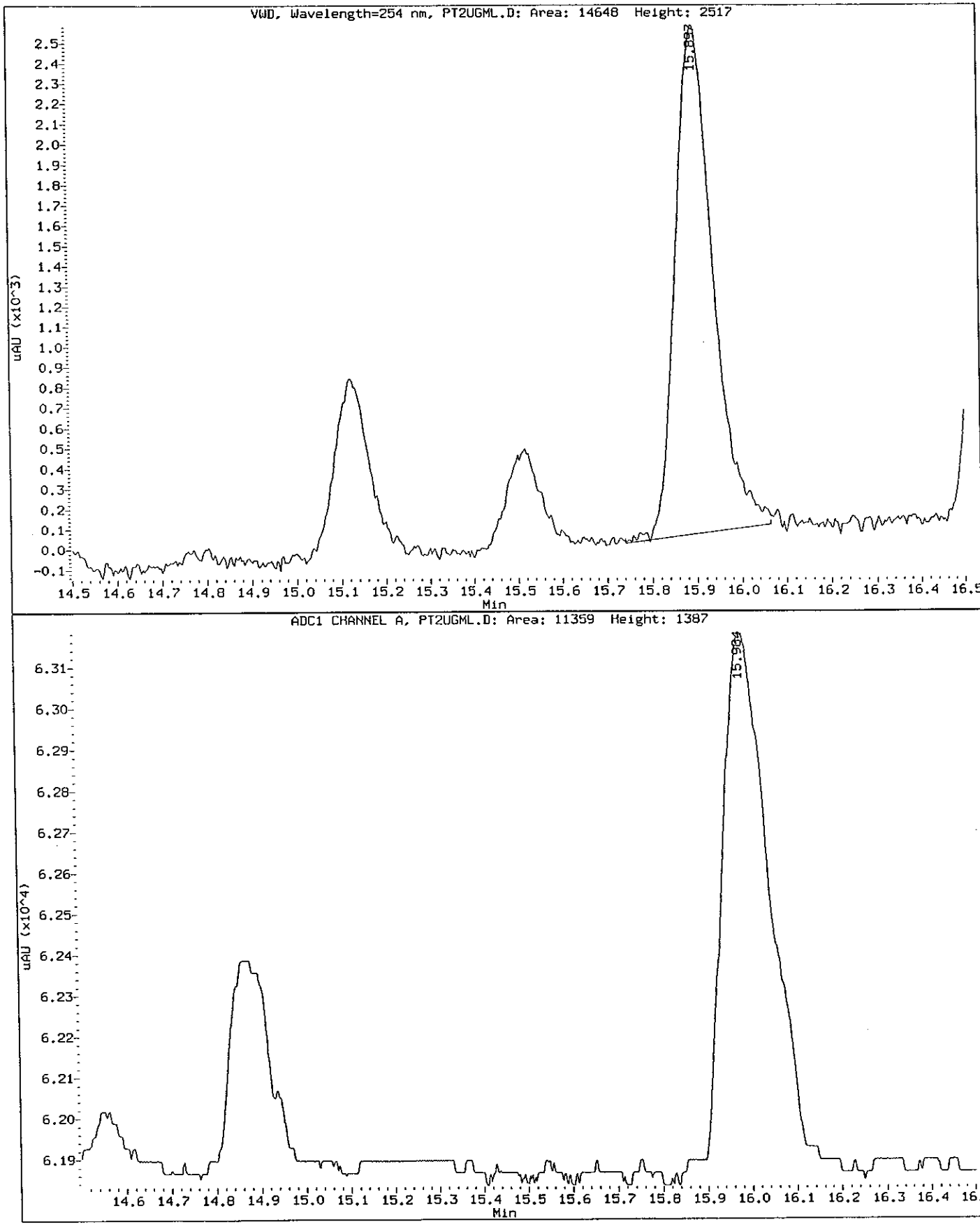
Instrument: slc02.i
Client Sample ID: 0.2st2856

Compound: Phenanthrene
CAS Number: 85-01-8



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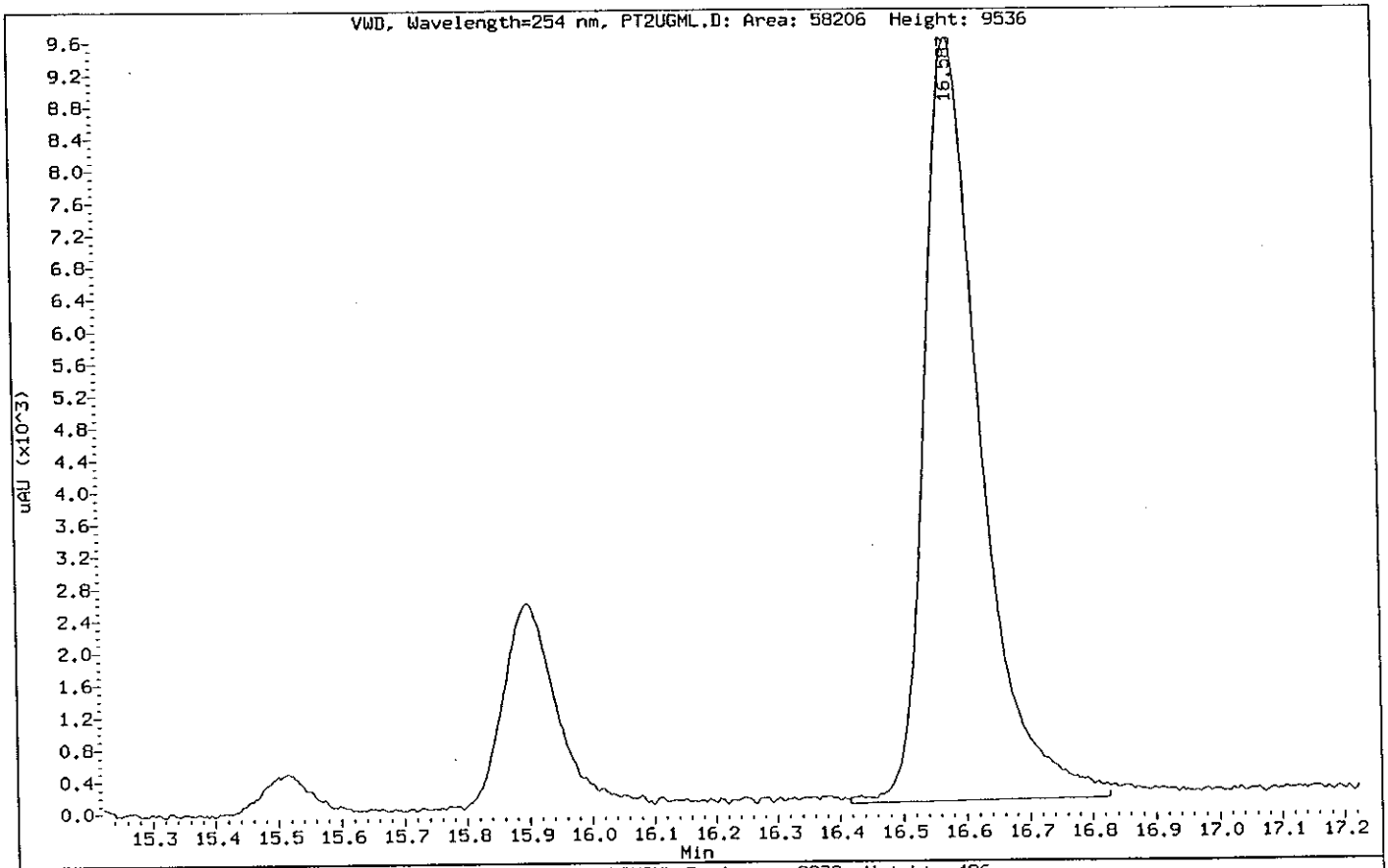
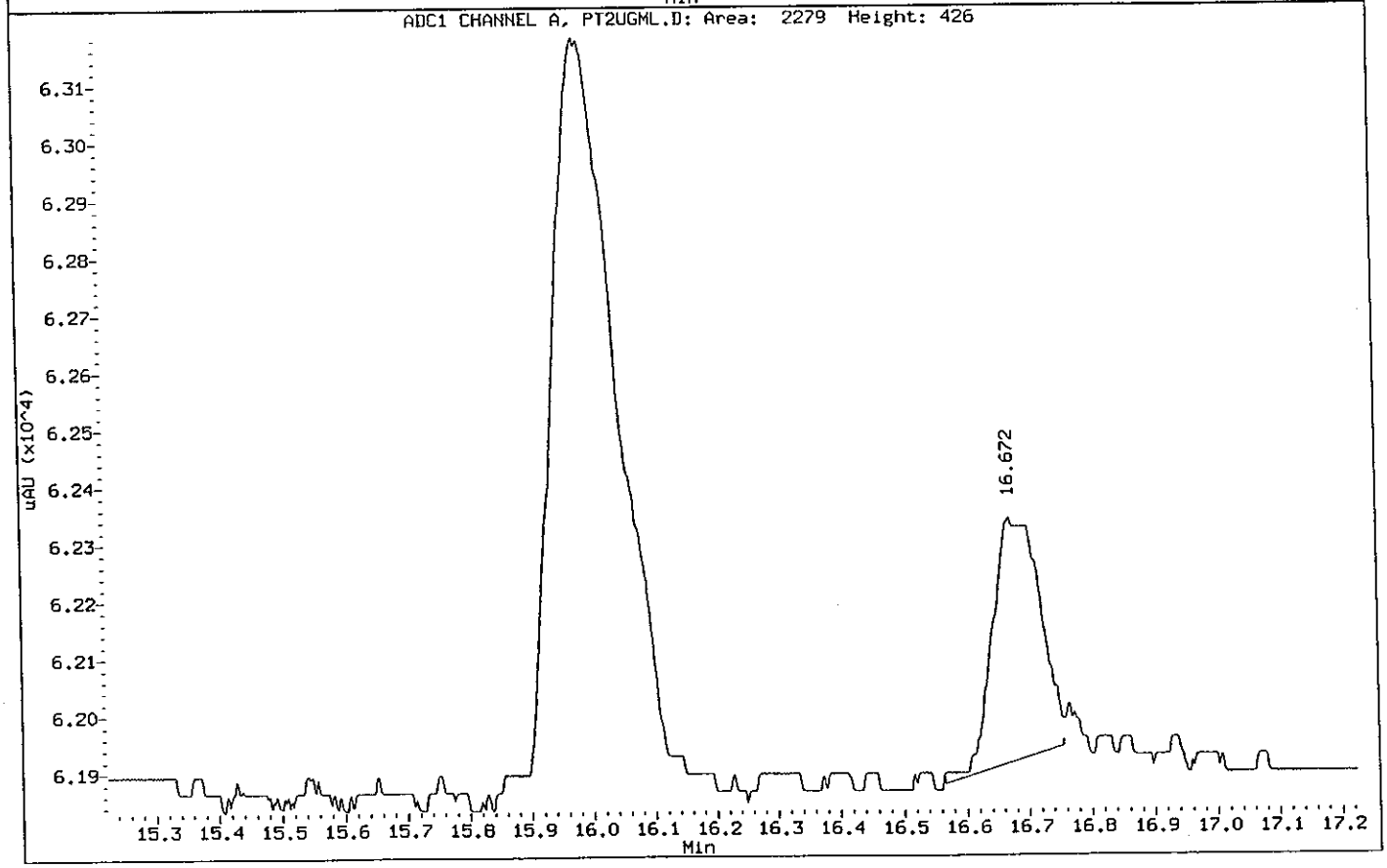
Injection Date: 28-OCT-2001 20:26
Instrument: slc02.i
Client Sample ID: 0.2st2856

Compound: Anthracene
CAS Number: 120-12-7





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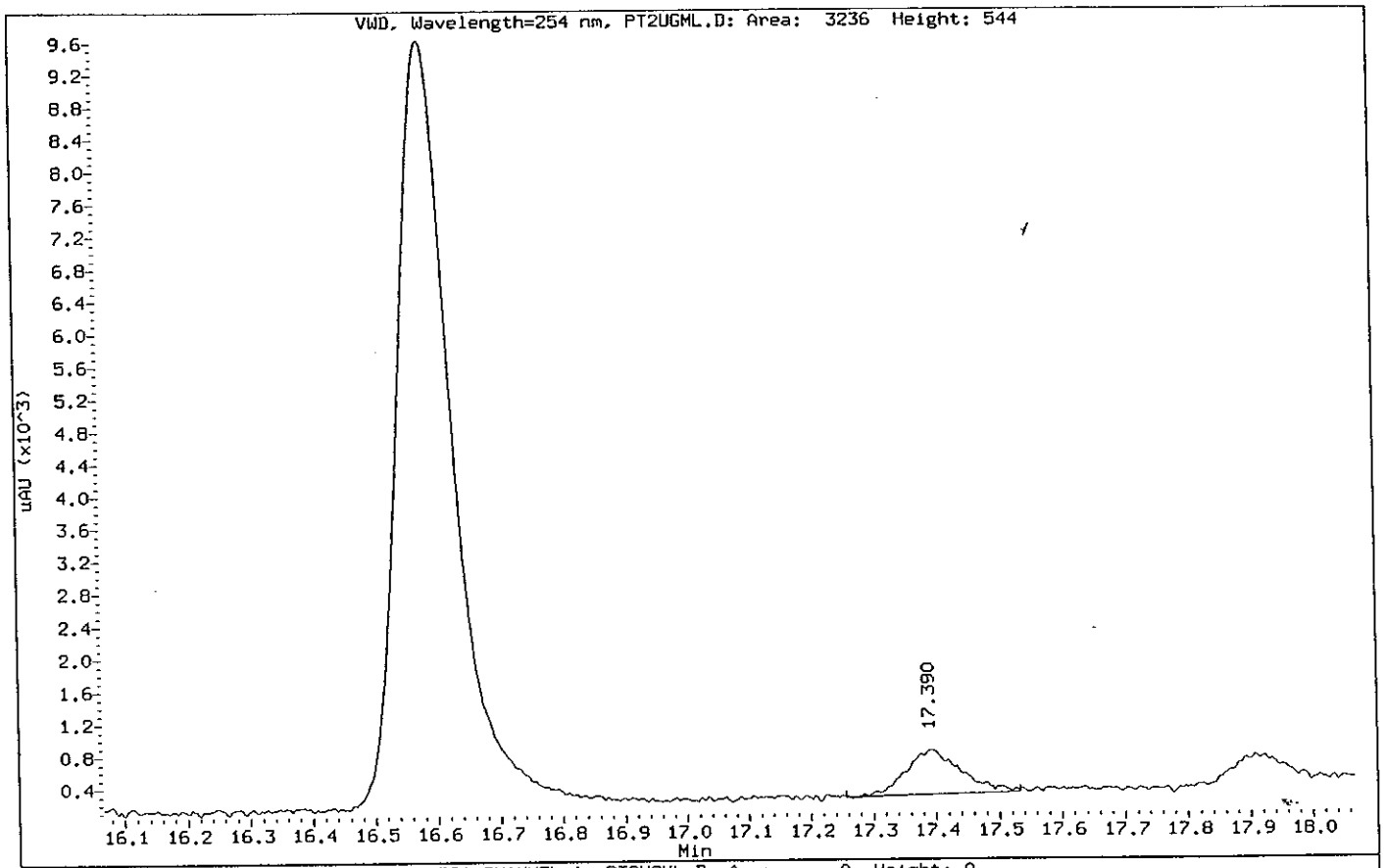
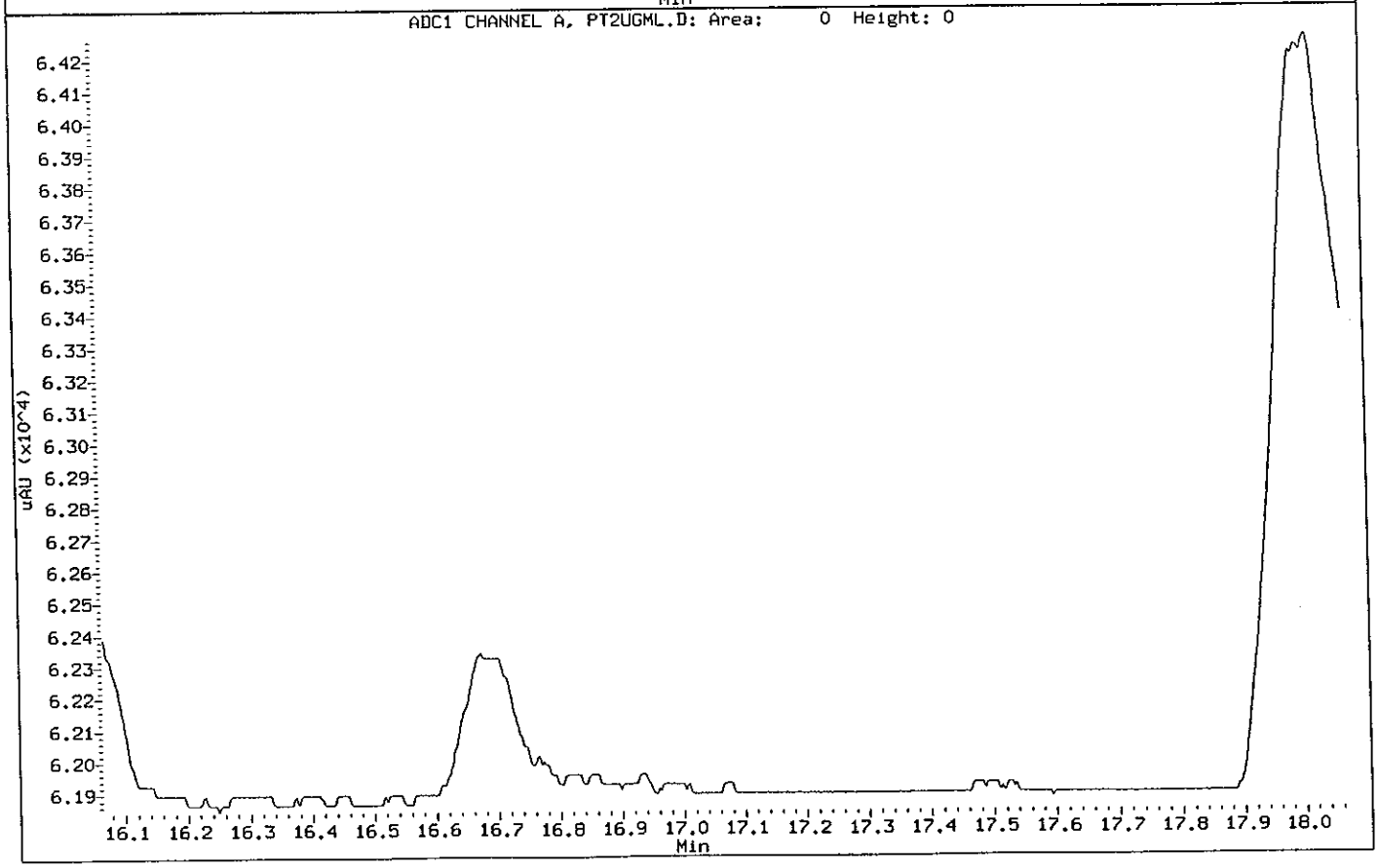
Instrument: slc02.i
Client Sample ID: 0.2st2856

Compound: Fluoranthene
CAS Number: 206-44-0

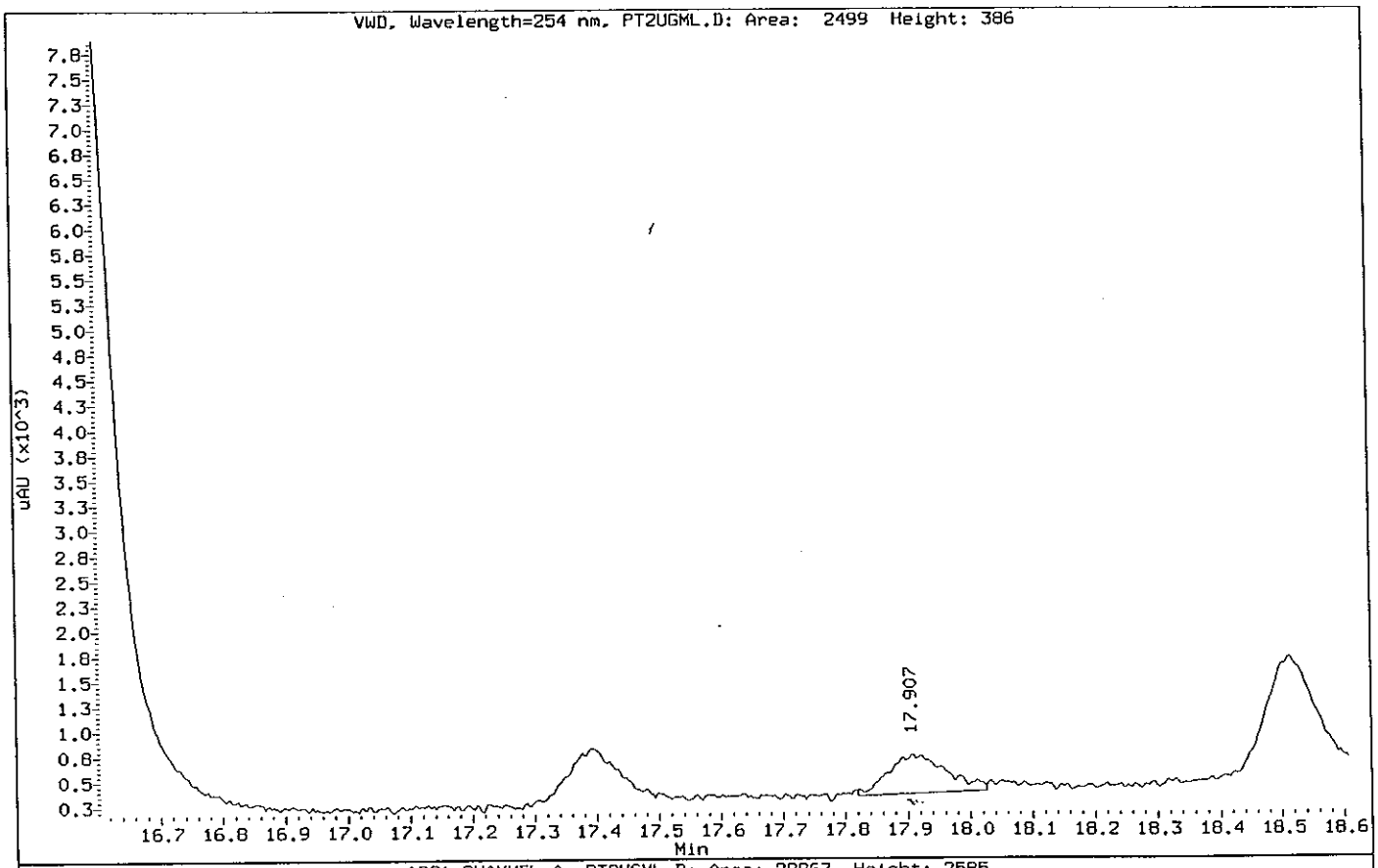


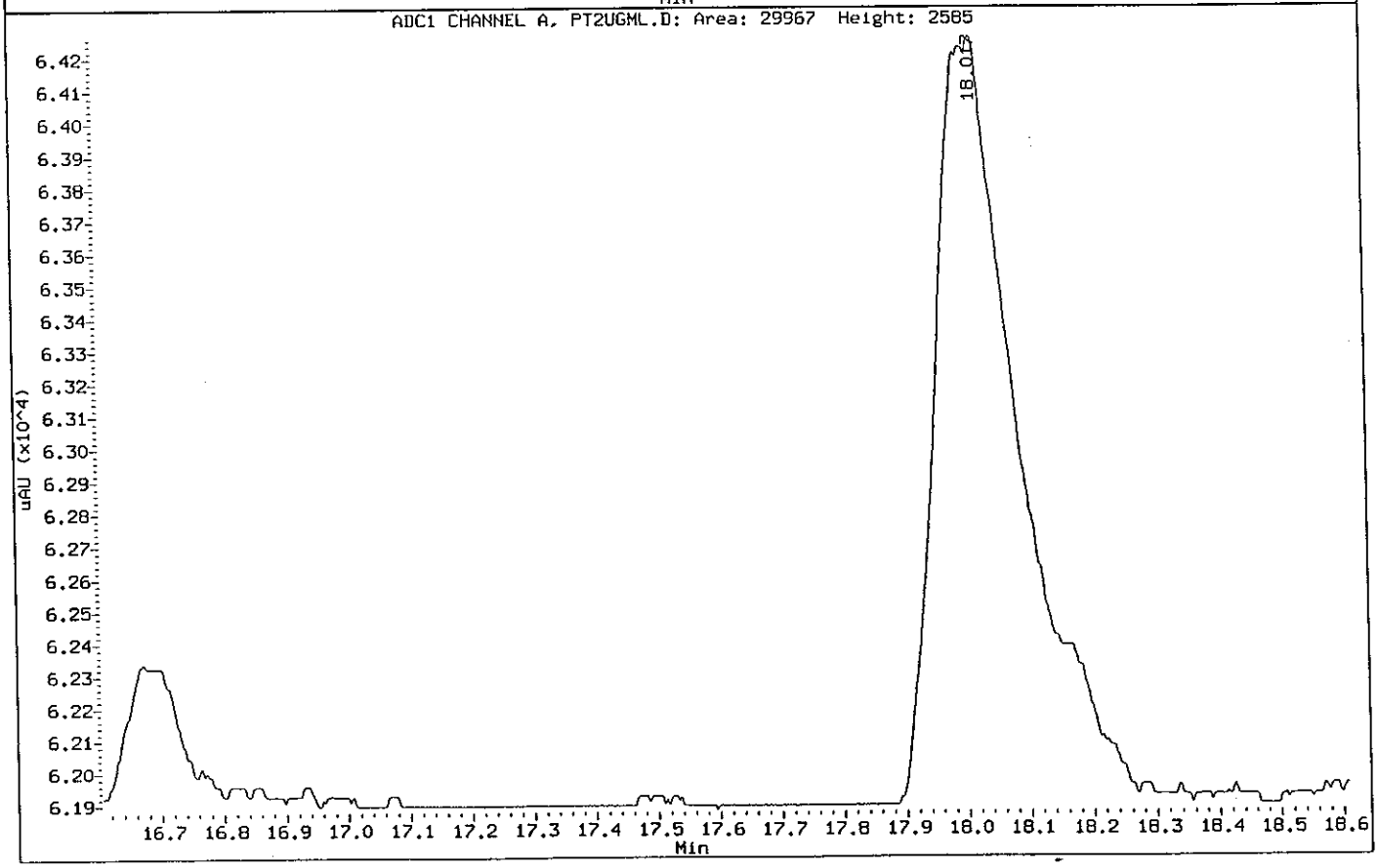


TMD

Data File: \\SVHPLC\ee\chem\slc02.i\recal1028s\PT2UGML.D
Injection Date: 28-OCT-2001 20:26
Instrument: slc02.i
Client Sample ID: 0.2st2856

Compound: Pyrene
CAS Number: 129-00-0





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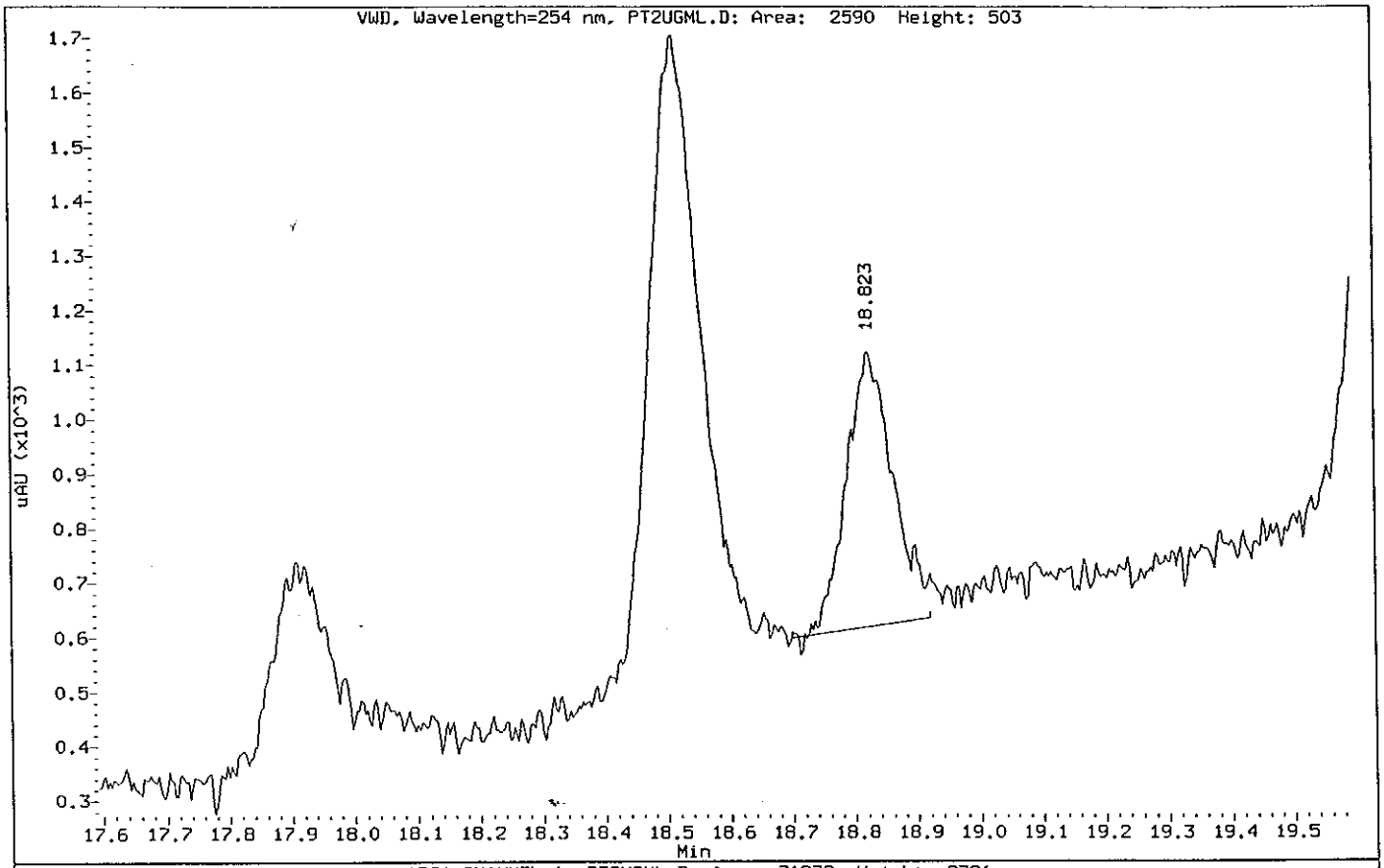
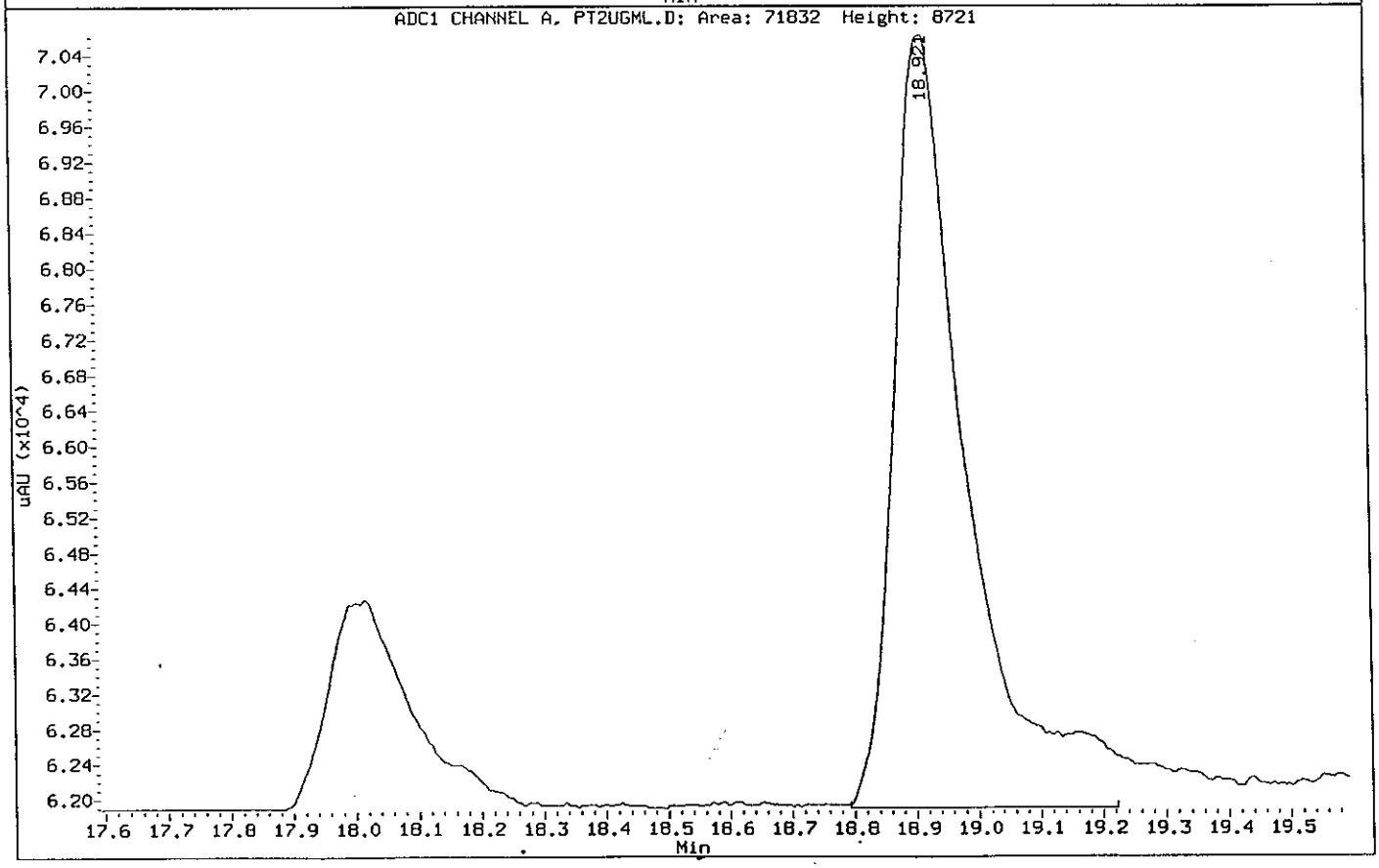
Injection Date: 28-OCT-2001 20:26
Instrument: slc02.i
Client Sample ID: 0.2st2856

Compound: p-Terphenyl-d14 (SURR)
CAS Number: 1718-51-0





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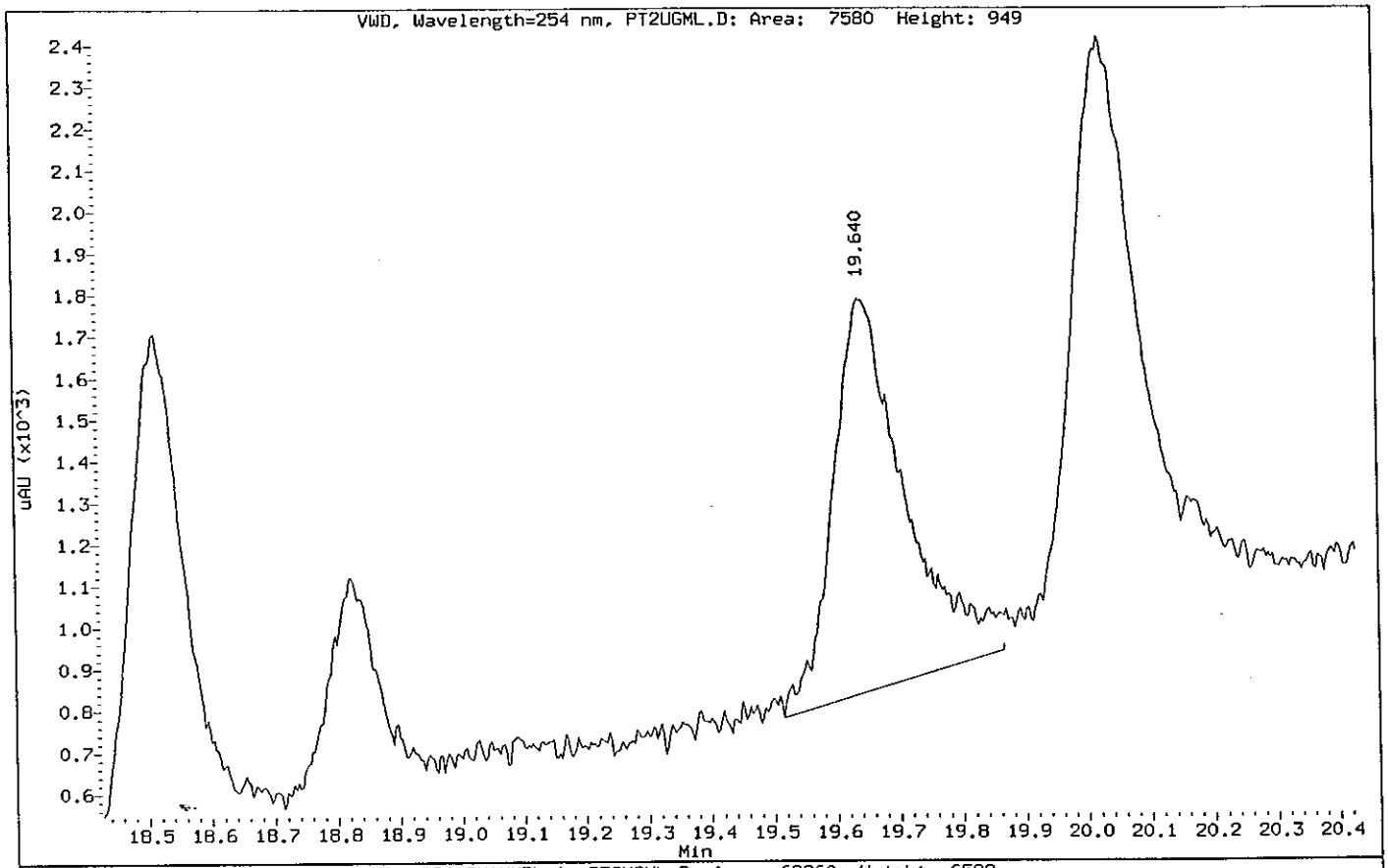
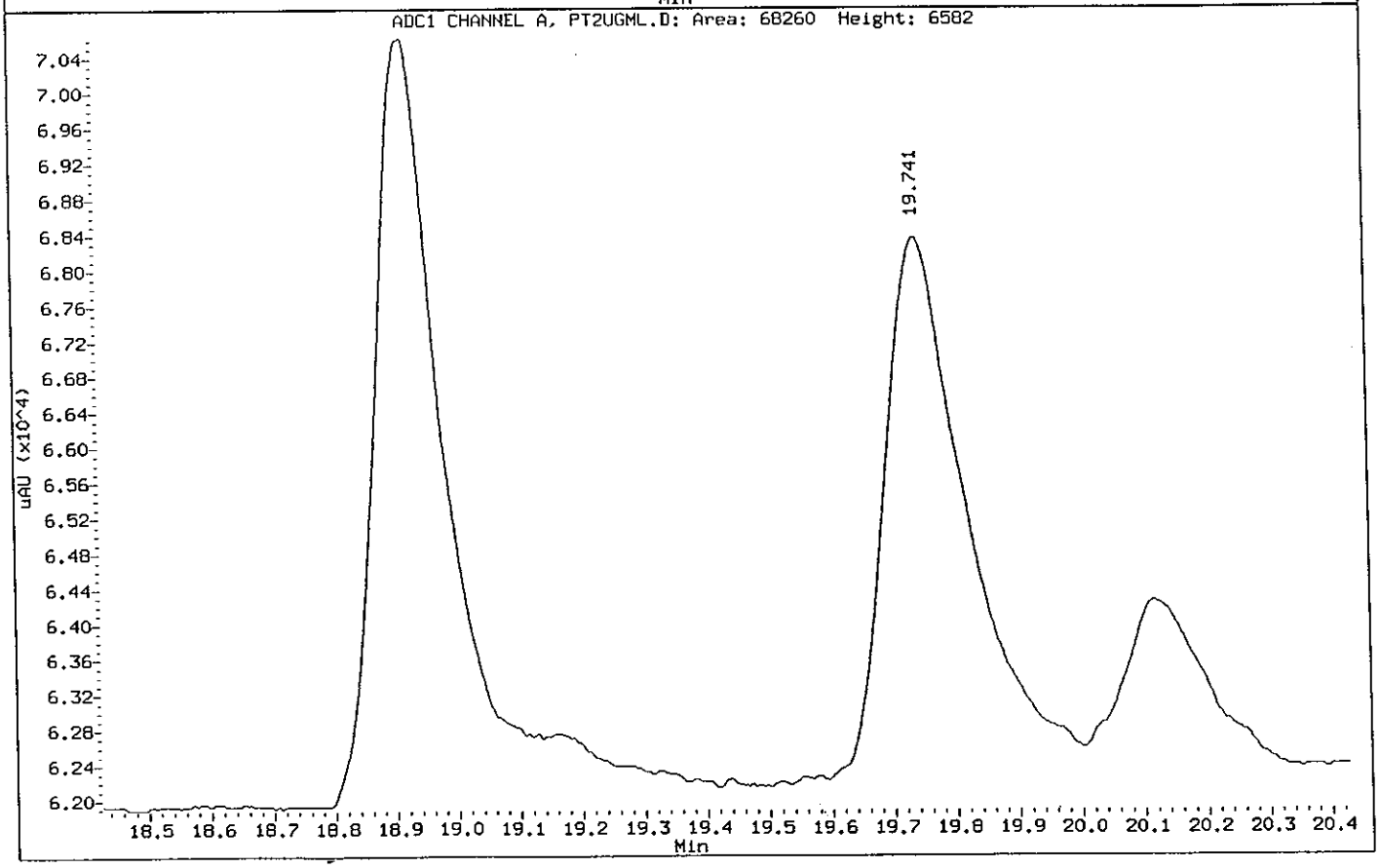
Injection Date: 28-OCT-2001 20:26
Instrument: slc02.i
Client Sample ID: 0.2st2856

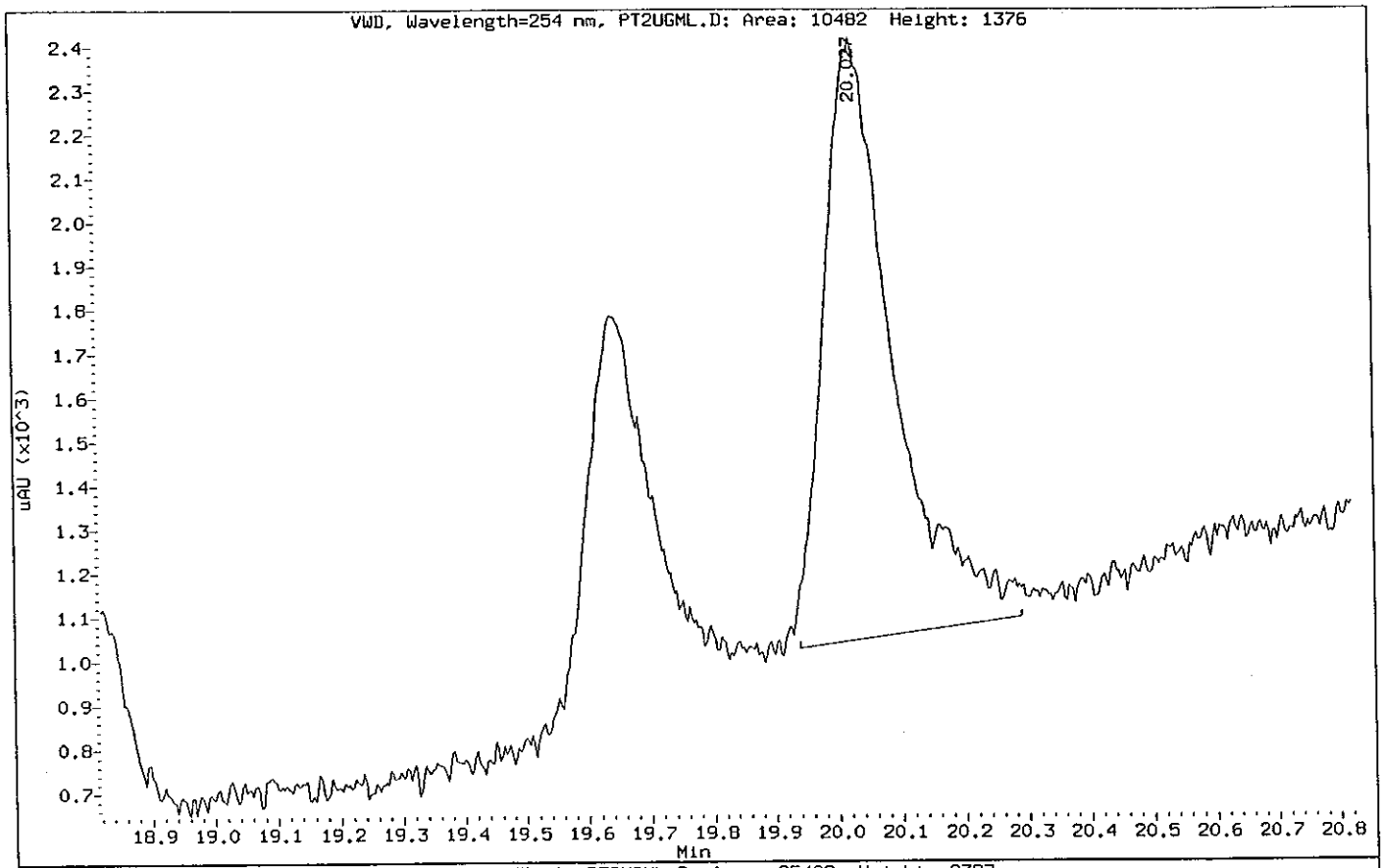
Compound: Benzo(a)Anthracene
CAS Number: 56-55-3

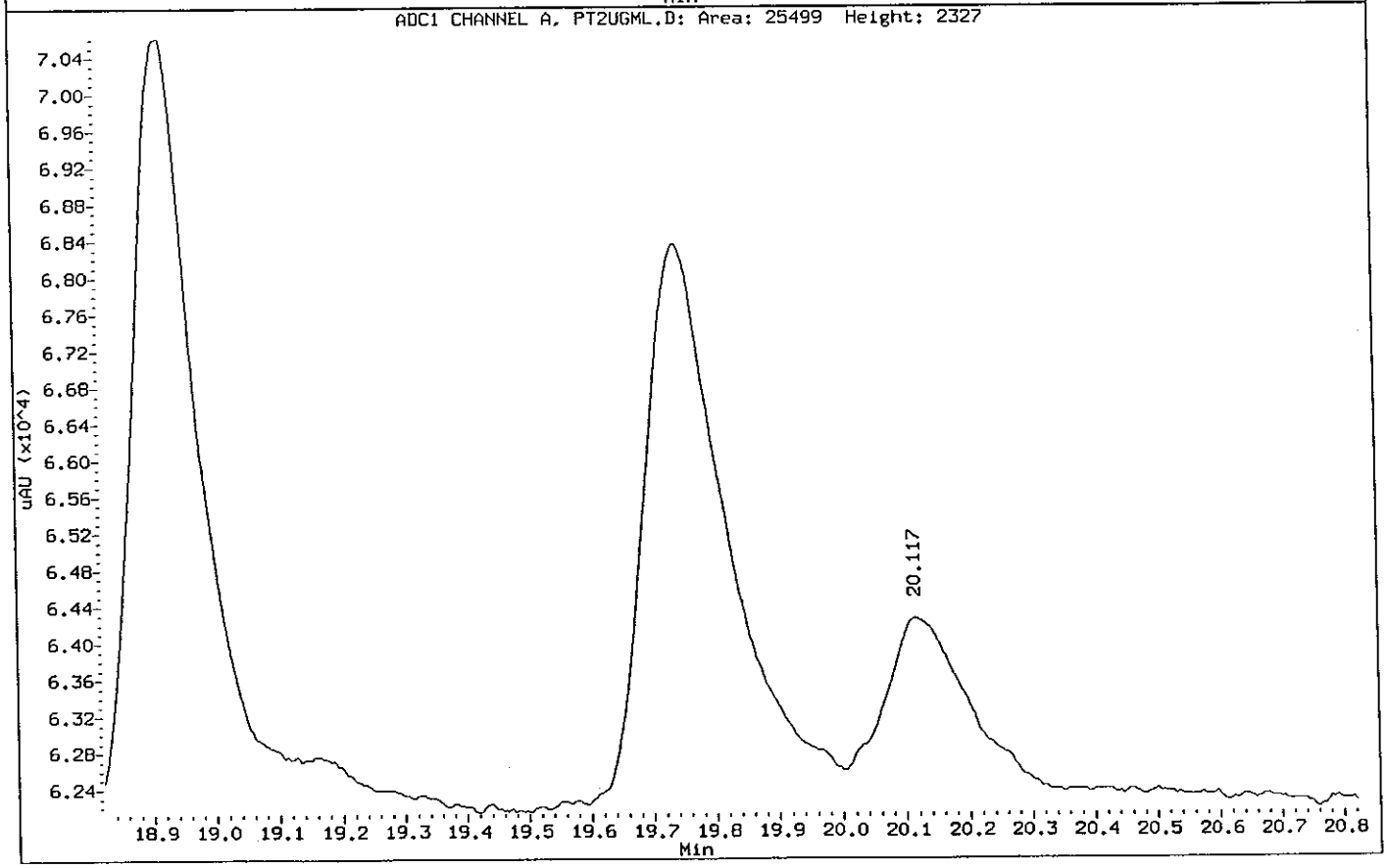




Data File: \\SVHPLC\ee\chem\slc02.i\recal1028s\PT2UGML.D
Injection Date: 28-OCT-2001 20:26
Instrument: slc02.i
Client Sample ID: 0.2st2856

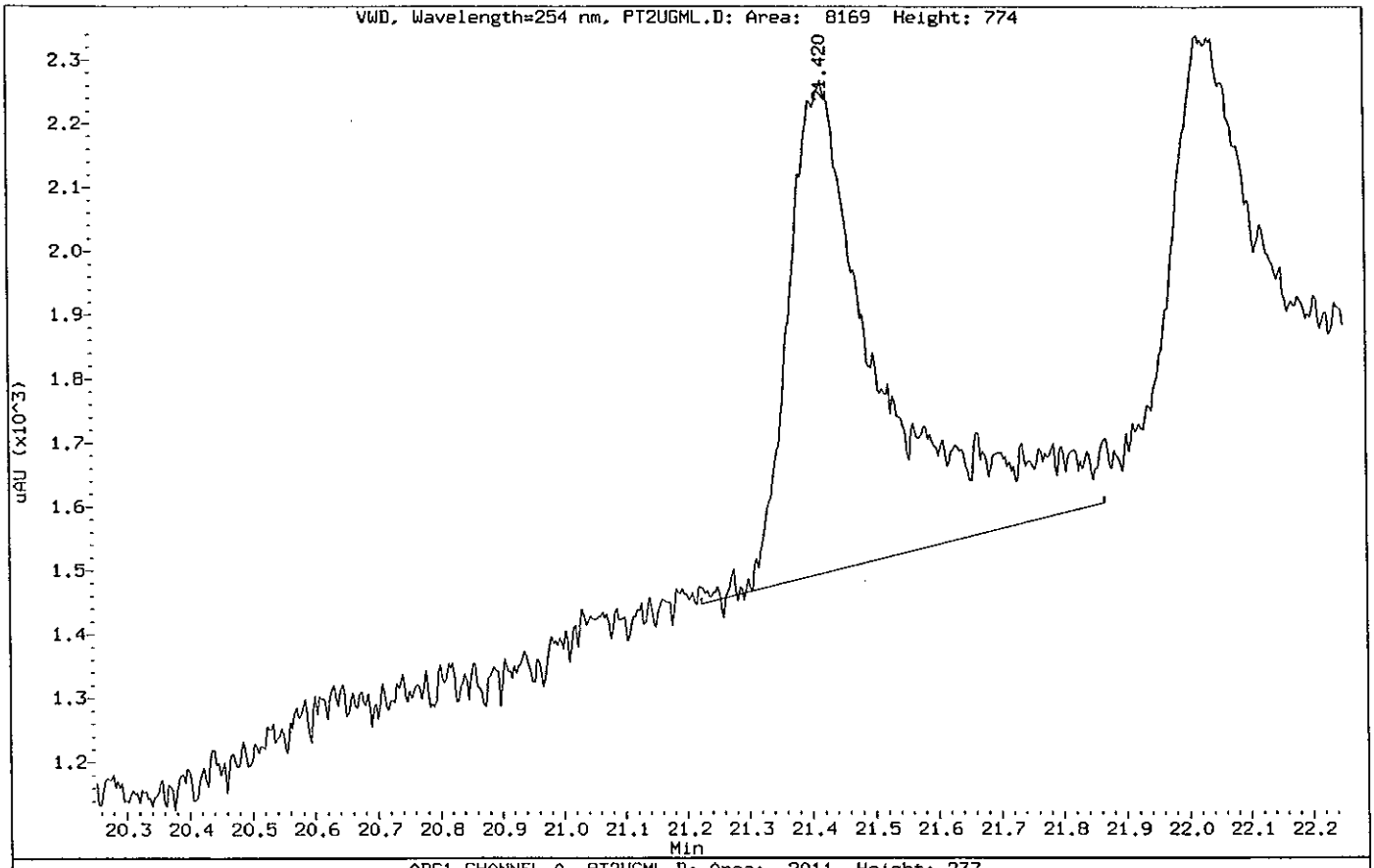
Compound: Chrysene
CAS Number: 218-01-9

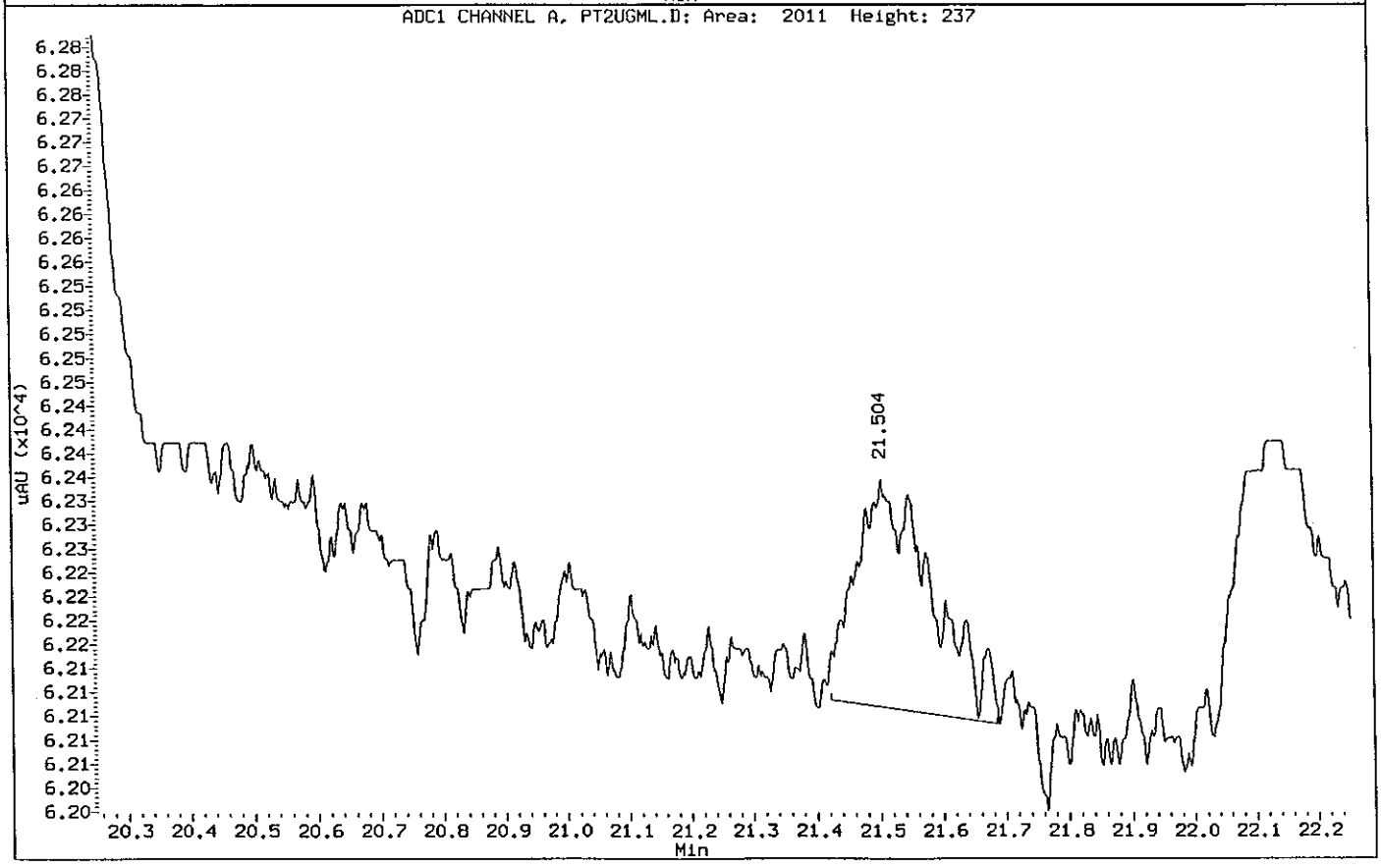




Data File: \\SVHPLC\ee\chem\slc02.i\recal1028s\PT2UGML.D
Injection Date: 28-OCT-2001 20:26
Instrument: slc02.i
Client Sample ID: 0.2st2856

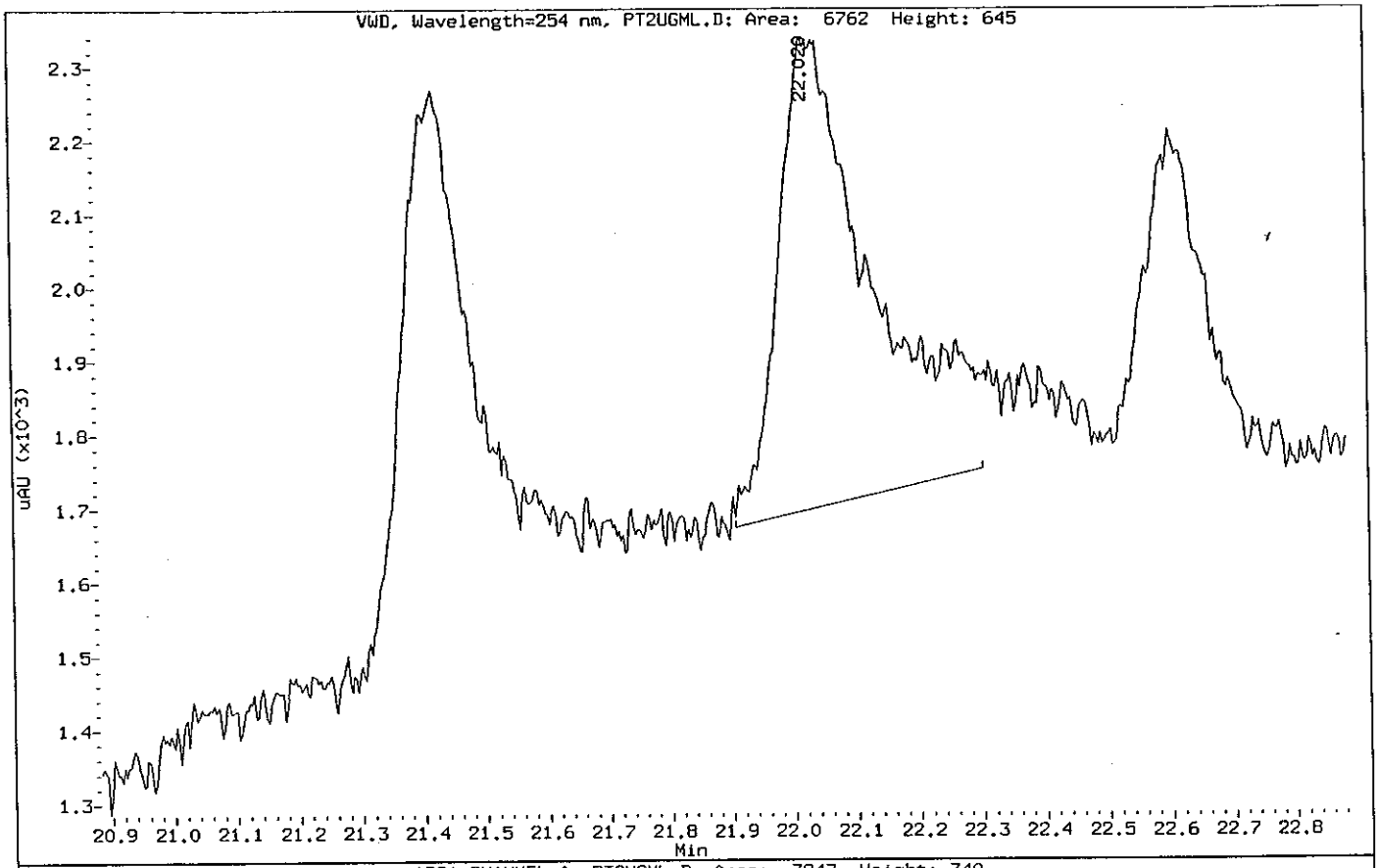
Compound: Benzo(b)Fluoranthene
CAS Number: 205-99-2

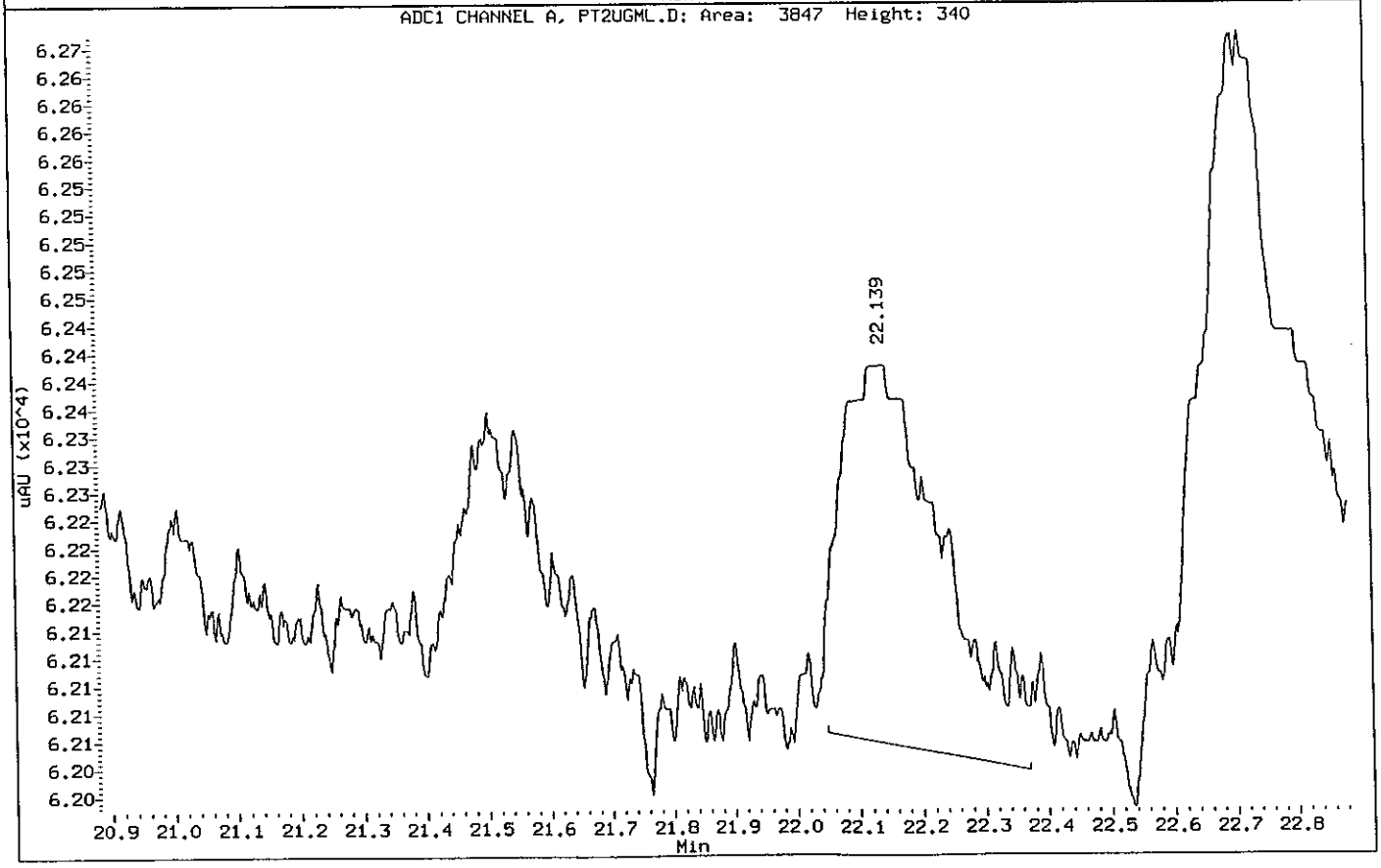




Data File: \\SVHPLC\ee\chem\slc02.i\recal1028s\PT2UGML.D
Injection Date: 28-OCT-2001 20:26
Instrument: slc02.i
Client Sample ID: 0.2st2856

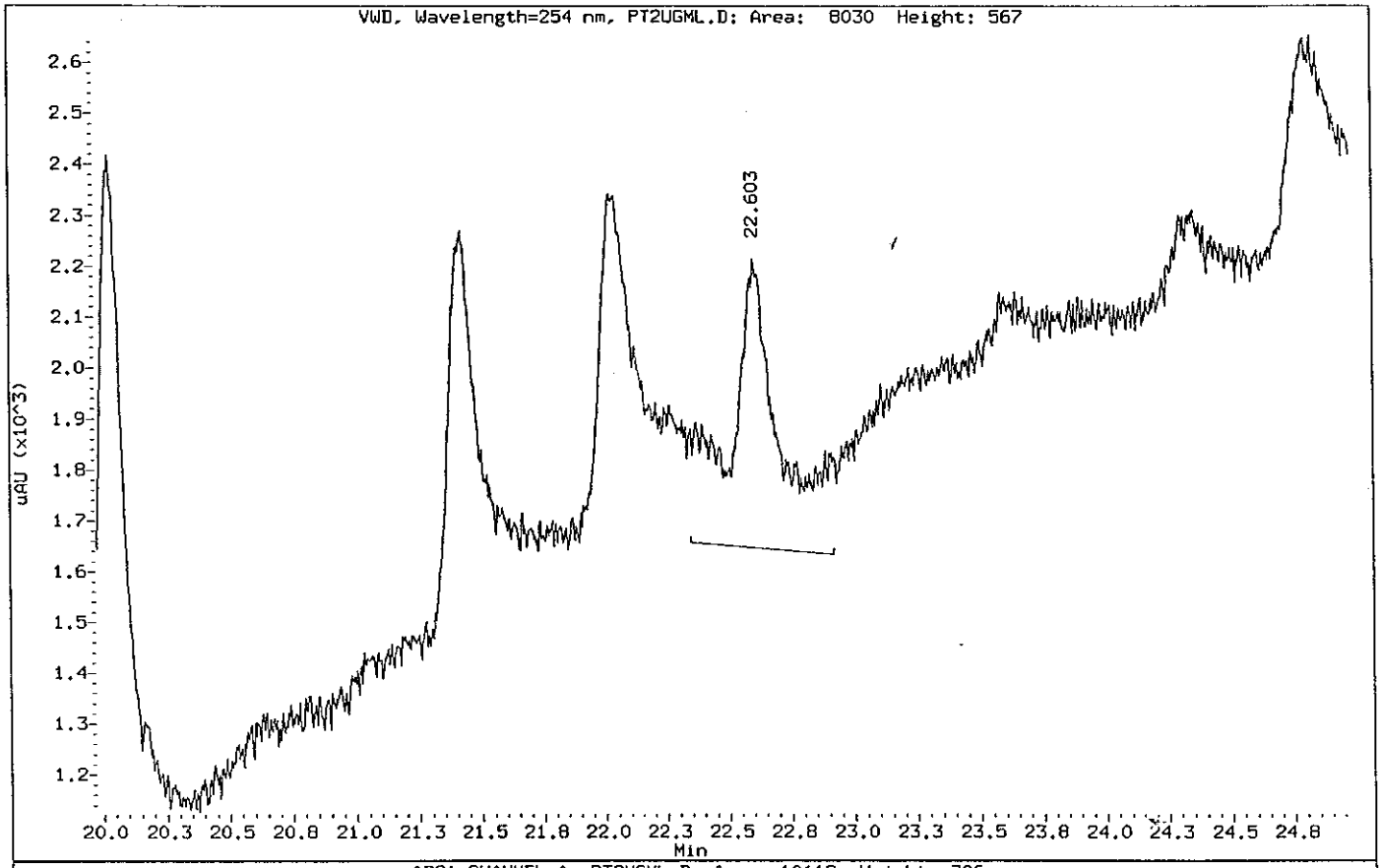
Compound: Benzo(k)Fluoranthene
CAS Number: 207-08-9

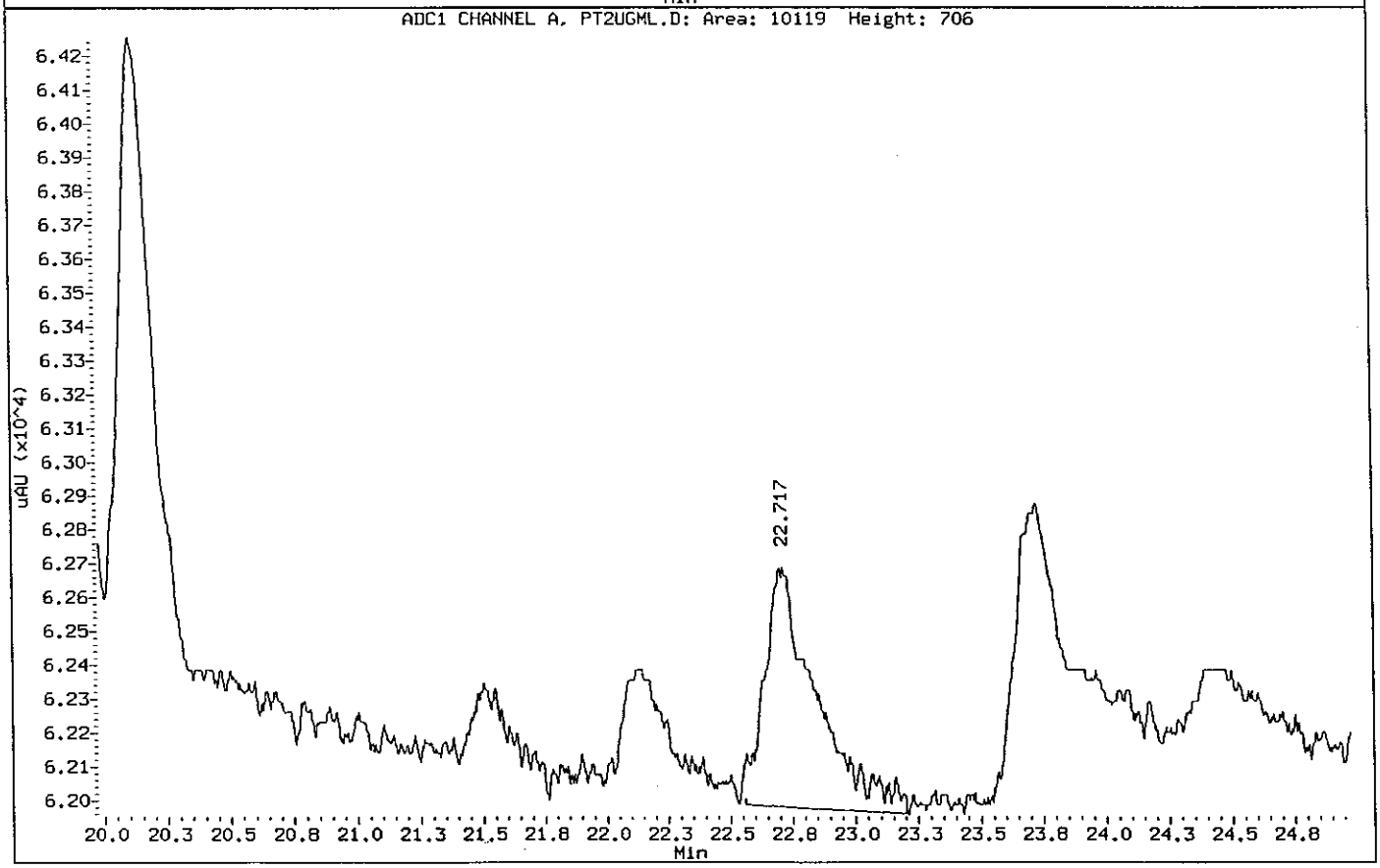




Data File: \\SVHPLC\ee\chem\slc02.i\recal1028s\PT2UGML.D
Injection Date: 28-OCT-2001 20:26
Instrument: slc02.i
Client Sample ID: 0.2st2856

Compound: Benzo(a)pyrene
CAS Number: 50-32-8





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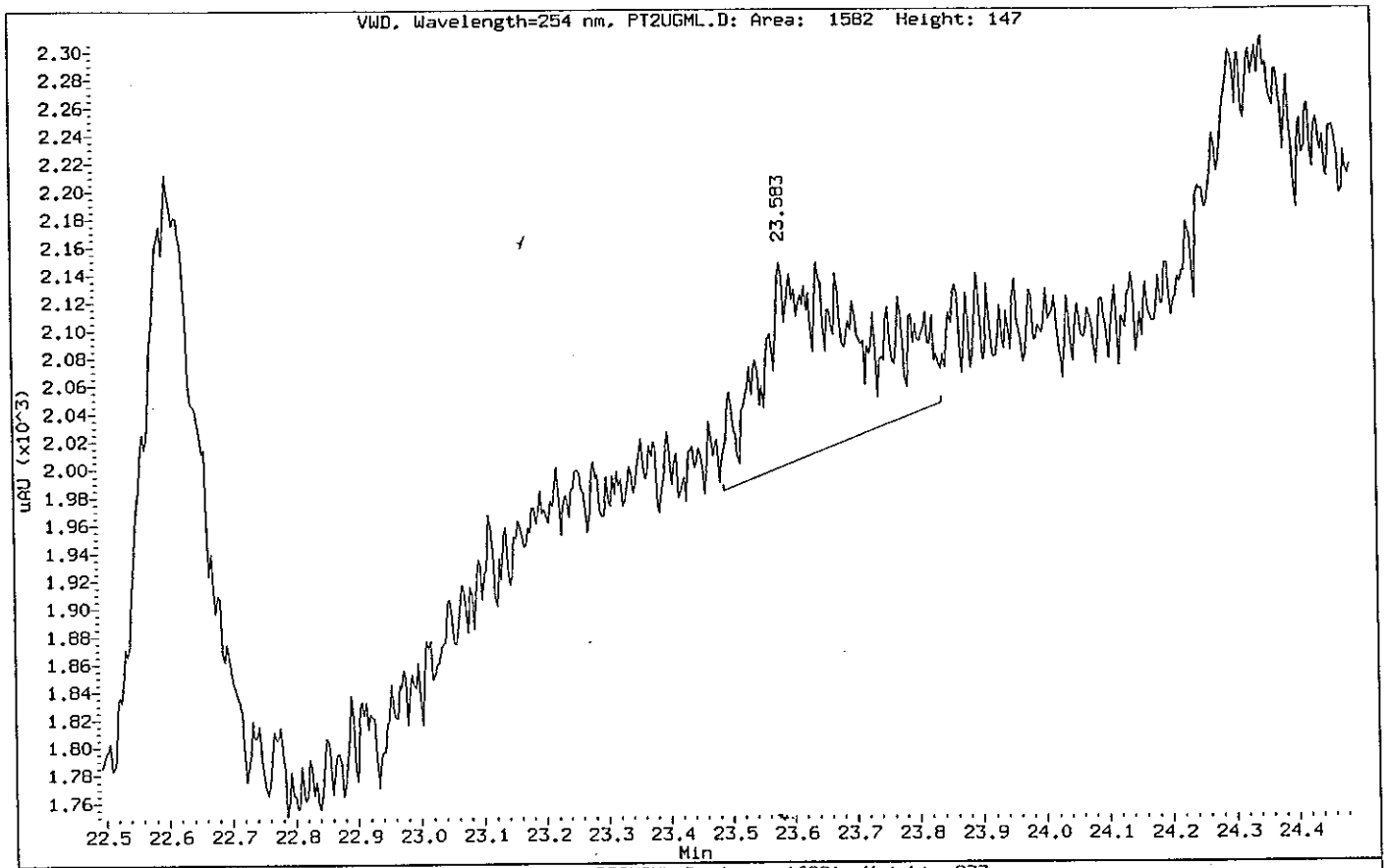
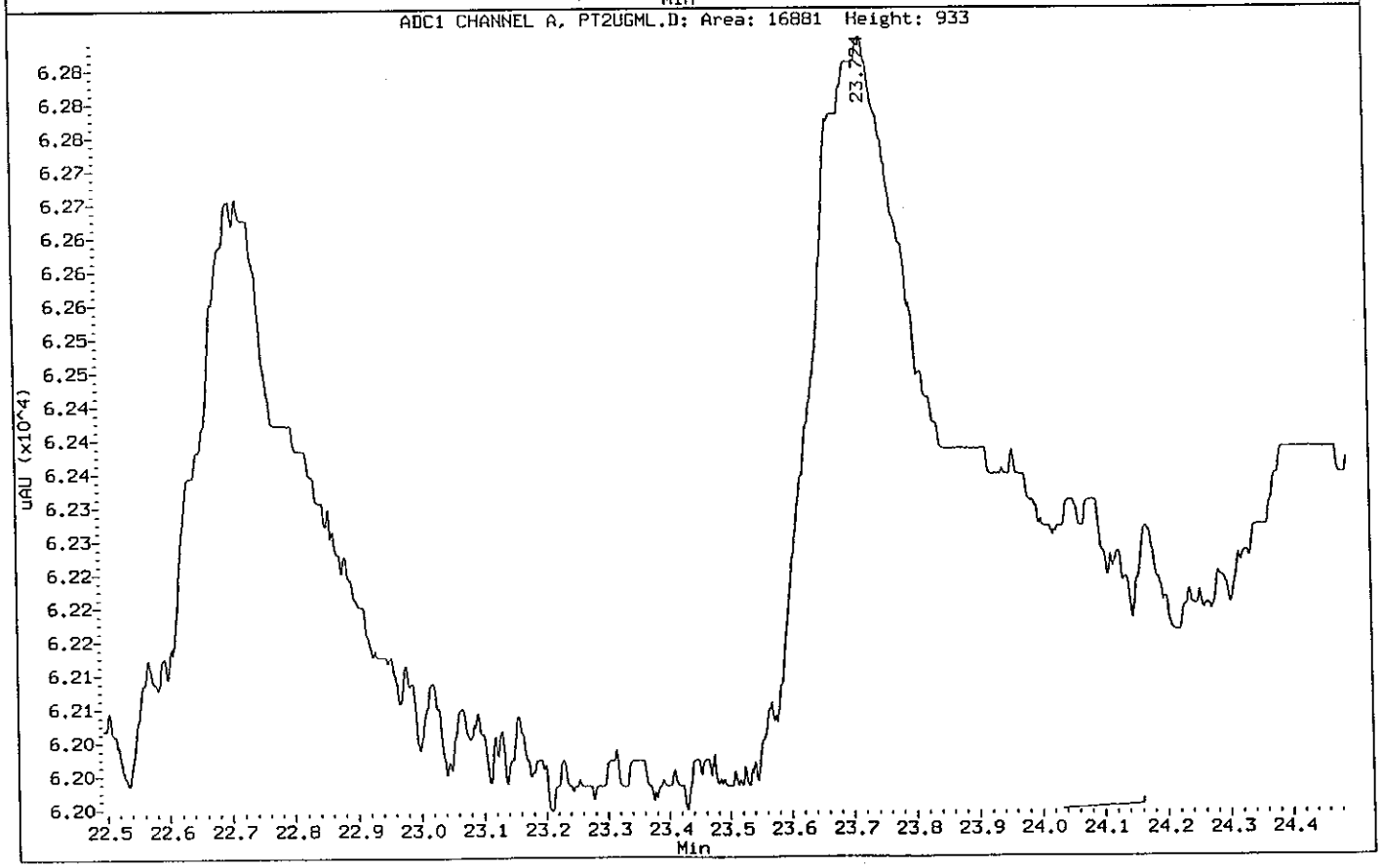
Injection Date: 28-OCT-2001 20:26
Instrument: slc02.i
Client Sample ID: 0.2st2856

Compound: Dibenz(ah)Anthracene
CAS Number: 53-70-3





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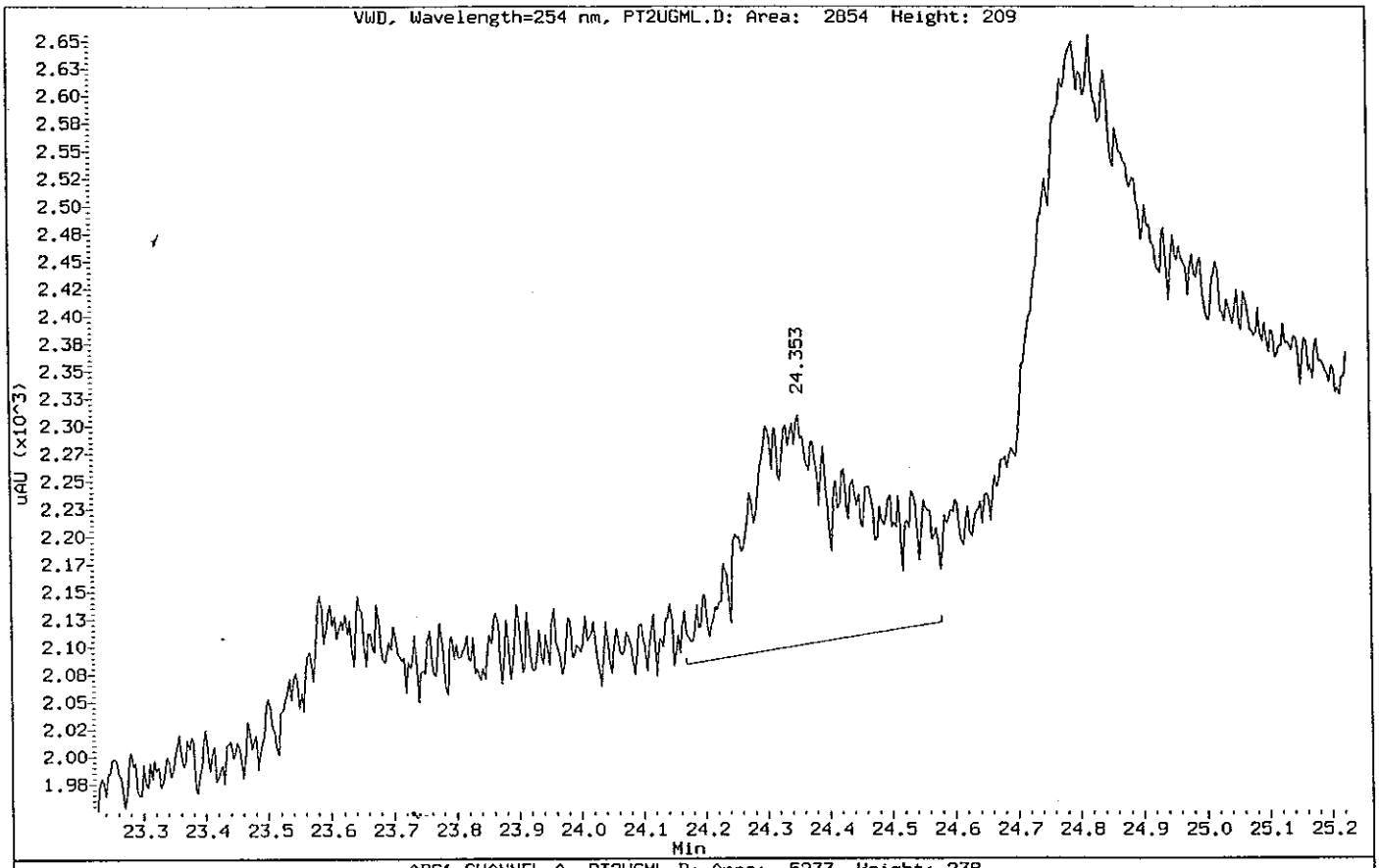
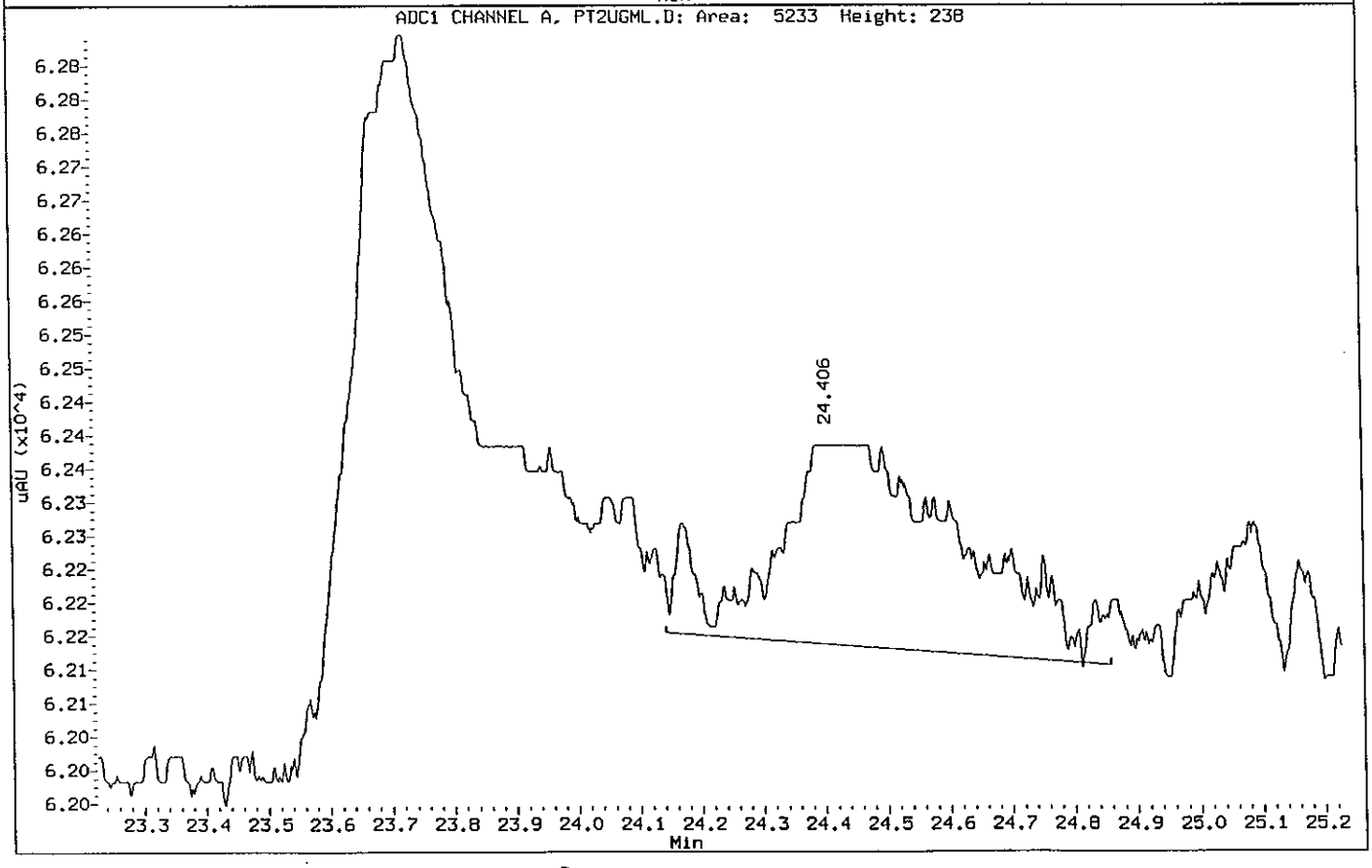
Injection Date: 28-OCT-2001 20:26
Instrument: slc02.i
Client Sample ID: 0.2st2856

Compound: Benzo(ghi)Perylene
CAS Number: 191-24-2





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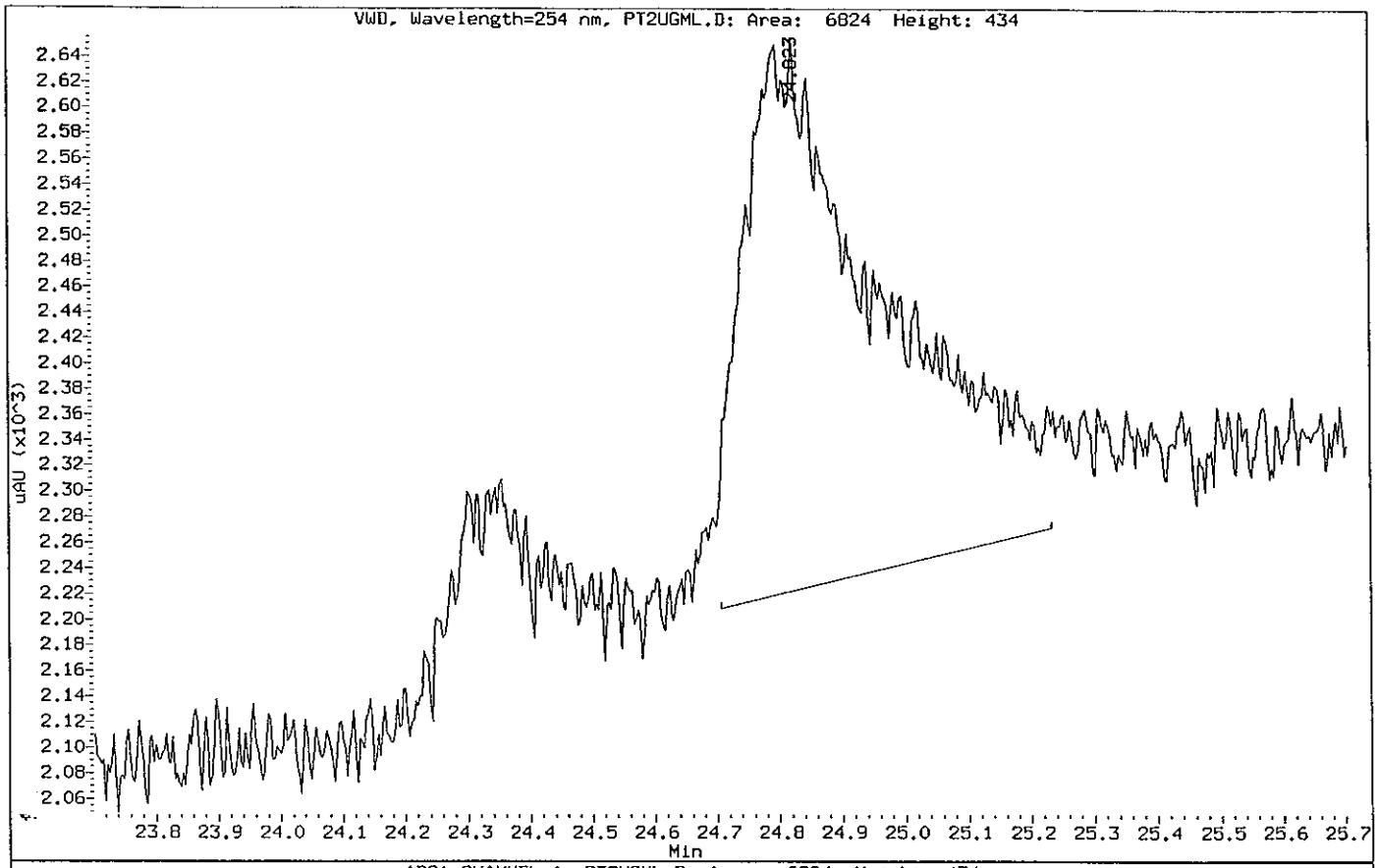
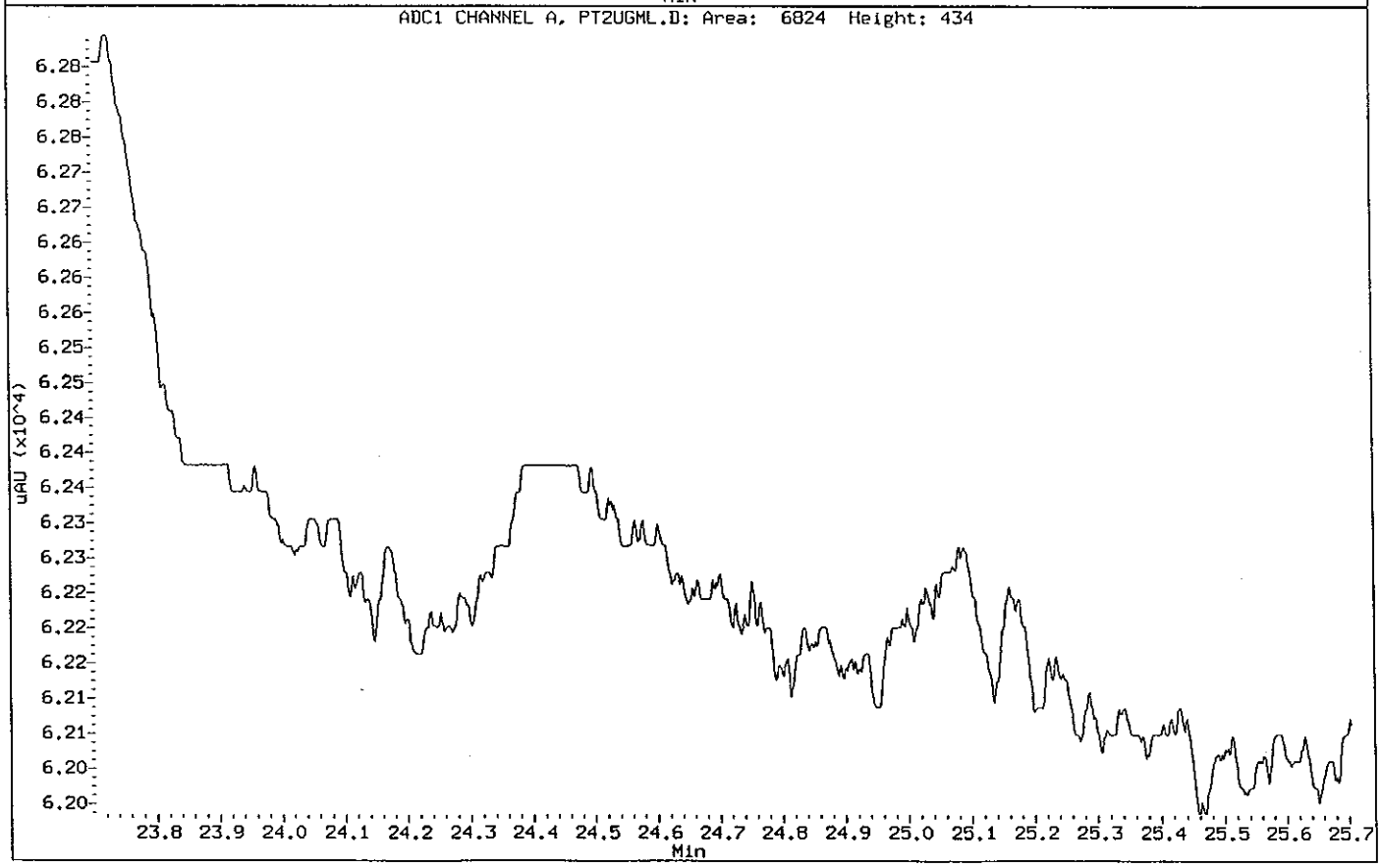
Injection Date: 28-OCT-2001 20:26
Instrument: slc02.i
Client Sample ID: 0.2st2856

Compound: Indeno(123cd)Pyrene
CAS Number: 193-39-5





JMD

10/28/01 8310S SEQ L21028R1.S

	DATA FILE	METHOD	SAMPLE NAME	VIAL	DATA FILE	METHOD
				9	94-10	8310S
				10	94-16D50	
1	CCV1	8310S	CCV3206C	11	94-7D2	
3	15 ug/mL		15ST2852	21	CCV4	
1	30 ug/mL		30ST2850	12	94-16D10	
2	20 ug/mL		20ST2851 (CALIBRATION)	13	94-8D2	
1	10 ug/mL		10ST2853	14	94-9D2	
3	5 ug/mL		5ST2854	21	CCV5	
	pt2 ug/mL		0.2ST2856	1	SHUT	SHUT
11	CCV1A		~~End~~ 10/29/01 15STD3206			
7	94-11		21100941 1			
8	94-12		9412			
1	94-13		9413			
0	94-14		9414			
1	94-15		9415			
2	94-16		9416			
3	94-17		9417			
4	94-18		9418			
5	94-19		9419			
6	94-01		9401			
21	CCV2		15STD3206			
7	94-02		21100940 2			
8	94-03		9403			
9	94-04		9404			
0	94-05		9405			
	94-06		9406			
2	1025ab		JMD 10/29/01 51553			
	1025alcs		51554			
	1025abms		51555			
	1025abmd		51556			
1	CCV3		15STD3206			
	94-7		21100940 7			
7	94-8		9408			

SEQ L2102

10/29/01

JMD

SEQ L21028R1.S (CONTINUED FROM PAGE 44) 45

METHOD	SAMPLE NAME
8310S	CCV3206C
	15ST2852
	30ST2850
	20ST2851
	10ST2853
	5ST2854
	0.2ST2856
	JMD 10/29/01 ~~CC~~ 15STD3206
	211009411
	9412
	9413
	9414
	9415
	9416
	9417
	9418
	9419
	9401
	15STD3206
	211009402
	9403
	9404
	9405
	9406
	JMD 10/29/01 51553
	51554
	51555
	51556
	15STD3206
	211009407
	9408
	9409

CALIBRATION

CONTINUED

VIAL	DATA FILE	METHOD	SAMPLE NAME
9	94-10	8310S	211009410
10	94-16D50		9416 (50X DILUTION)
11	94-7D2		9407 (2X DILUTION)
21	CCV4		15STD3206
12	94-16D10		211009416 (10X DILUTION)
13	94-8D2		9408 (2X DILUTION)
14	94-9D2		9409 (2X DILUTION)
21	CCV5		15STD3206
1	SHUT	SHUT	SHUT

10/29/01

JMD

PEL Laboratories

Data file : \\SVHPLC\ee\chem\slc02.i\L21028R1.b\CCV1A.D
Lab Smp Id: 15STD3206 Client Smp ID: 15STD3206
Inj Date : 28-OCT-2001 21:01
Operator : rood Inst ID: slc02.i
Smp Info : 15STD3206
Misc Info :
Comment :
Method : \\SVHPLC\ee\chem\slc02.i\L21028R1.b\8310S.m
Meth Date : 02-Nov-2001 08:36 jdonnelly Quant Type: ISTD
Cal Date : 28-OCT-2001 20:26 Cal File: PT2UGML.D
Als bottle: 21 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.04 Sample Matrix: SOIL
Processing Host: SVHPLC

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

					AMOUNTS CAL-AMT	ON-COL		
RT	EXP RT	REL RT	SIGNAL	RESPONSE	(ug/ml)	(ug/ml)	TARGET RANGE	RATIO
* 1 Carbazole (ISTD)						CAS #: 86-74-8		
11.446	10.610	(1.000)	VWD1A	248309			80.00- 120.00	100.00
11.536	10.610	(1.000)	ADC1A	1952820	10.0000		652.03- 978.05	786.45
2 Naphthalene						CAS #: 91-20-3		
12.426	11.770	(1.086)	VWD1A	85231	15.0000	15.4	80.00- 120.00	100.00(M)
12.513	11.770	(1.093)	ADC1A	86597	15.0000	14.4	82.40- 123.60	101.60
3 Acenaphthylene						CAS #: 208-96-8		
13.556	13.013	(1.184)	VWD1A	61416	15.0000	15.1		
4 1-Methyl naphthalene						CAS #: 90-12-0		
14.133	13.633	(1.235)	VWD1A	50945	15.0000	15.2	80.00- 120.00	100.00
14.223	13.633	(1.243)	ADC1A	182846	15.0000	14.8	296.60- 444.90	358.91

					AMOUNTS CAL-AMT	ON-COL		
RT	EXP RT	REL RT	SIGNAL	RESPONSE	(ug/ml)	(ug/ml)	TARGET RANGE	RATIO
5 2-Methyl naphthalene						CAS #: 91-57-6		
14.446	13.973	(1.262)	VWD1A	72984	15.0000	15.4	80.00- 120.00	100.00(M)
14.536	13.973	(1.270)	ADC1A	166054	15.0000	15.9	191.55- 287.32	227.52
6 Acenaphthene						CAS #: 83-32-9		
14.763	14.310	(1.290)	VWD1A	32151	15.0000	15.0	80.00- 120.00	100.00(M)
14.851	14.310	(1.297)	ADC1A	402106	15.0000	16.4	964.12-1446.17	1250.68
7 Fluorene						CAS #: 86-73-7		
15.103	14.680	(1.319)	VWD1A	374273	15.0000	15.1	80.00- 120.00	100.00
15.194	14.680	(1.327)	ADC1A	43078	15.0000	14.4	9.06- 13.59	11.51
8 Phenanthrene						CAS #: 85-01-8		
15.876	15.500	(1.387)	VWD1A	1039535	15.0000	15.1	80.00- 120.00	100.00(M)
15.968	15.500	(1.395)	ADC1A	992552	15.0000	15.2	78.58- 117.87	95.48
9 Anthracene						CAS #: 120-12-7		
16.563	16.223	(1.447)	VWD1A	2264627			80.00- 120.00	100.00
16.654	16.223	(1.455)	ADC1A	147192	15.0000	14.8	5.00- 7.50	6.50
10 Fluoranthene						CAS #: 206-44-0		
17.370	17.066	(1.517)	VWD1A	248338	15.0000	15.1	80.00- 120.00	100.00
17.468	17.066	(1.526)	ADC1A	18252			6.36- 9.54	7.35
11 Pyrene						CAS #: 129-00-0		
17.893	17.606	(1.563)	VWD1A	186002	15.0000	14.7	80.00- 120.00	100.00(M)
17.989	17.606	(1.572)	ADC1A	2298413	15.0000	13.6	930.64-1395.96	1235.69
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.816	18.593	(1.644)	VWD1A	212575	15.0000	14.5	80.00- 120.00	100.00(M)
18.911	18.593	(1.652)	ADC1A	6162180	15.0000	15.4	2246.35-3369.53	2898.83
13 Benzo(a)Anthracene						CAS #: 56-55-3		
19.630	19.426	(1.715)	VWD1A	581111	15.0000	15.0	80.00- 120.00	100.00
19.724	19.426	(1.723)	ADC1A	6376779	15.0000	15.4	881.58-1322.37	1097.34
14 Chrysene						CAS #: 218-01-9		
20.013	19.820	(1.748)	VWD1A	822229	15.0000	14.9	80.00- 120.00	100.00
20.106	19.820	(1.757)	ADC1A	1917195	15.0000	14.6	190.14- 285.21	233.17
15 Benzo(b)Fluoranthene						CAS #: 205-99-2		
21.396	21.253	(1.869)	VWD1A	643774	15.0000	15.1	80.00- 120.00	100.00
21.494	21.253	(1.878)	ADC1A	169711	15.0000	15.2	20.85- 31.28	26.36
16 Benzo(k)Fluoranthene						CAS #: 207-08-9		
22.006	21.883	(1.923)	VWD1A	489772	15.0000	15.0	80.00- 120.00	100.00

RT	EXP RT	REL RT	SIGNAL	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
16 Benzo(k)Fluoranthene (continued)								
22.103	21.883	(1.931)	ADC1A	327066	15.0000	15.4	52.76- 79.15	66.78
17 Benzo(a)pyrene						CAS #: 50-32-8		
22.590	22.476	(1.974)	VWD1A	568196	15.0000	15.0	80.00- 120.00	100.00(M)
22.686	22.476	(1.982)	ADC1A	999434	15.0000	15.8	138.13- 207.19	175.90
18 Dibenz(ah)Anthracene						CAS #: 53-70-3		
23.570	23.493	(2.059)	VWD1A	127853	15.0000	15.2	80.00- 120.00	100.00
23.668	23.493	(2.068)	ADC1A	1525403	15.0000	15.1	949.04-1423.56	1193.09
19 Benzo(ghi)Perylene						CAS #: 191-24-2		
24.296	24.226	(2.123)	VWD1A	214530	15.0000	14.9	80.00- 120.00	100.00
24.393	24.226	(2.131)	ADC1A	412187	15.0000	14.2	155.32- 232.98	192.13
20 Indeno(123cd)Pyrene						CAS #: 193-39-5		
24.760	24.703	(2.163)	VWD1A	560173	15.0000	15.5	80.00- 120.00	100.00

QC Flag Legend

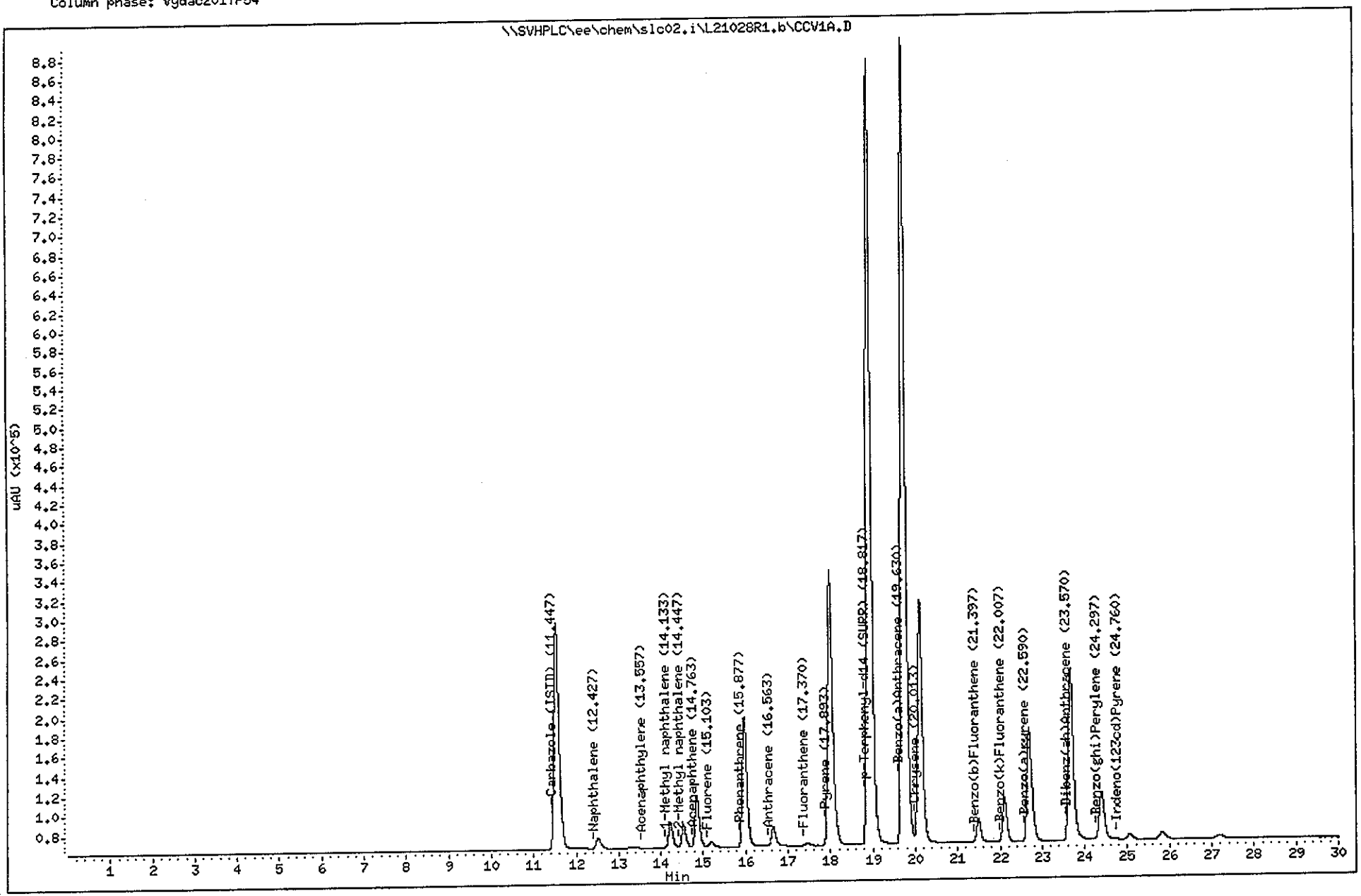
M - Compound response manually integrated.

Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\CCV1A.D
Date : 28-OCT-2001 21:01
Client ID: 15STD3206
Sample Info: 15STD3206

Instrument: slc02.i

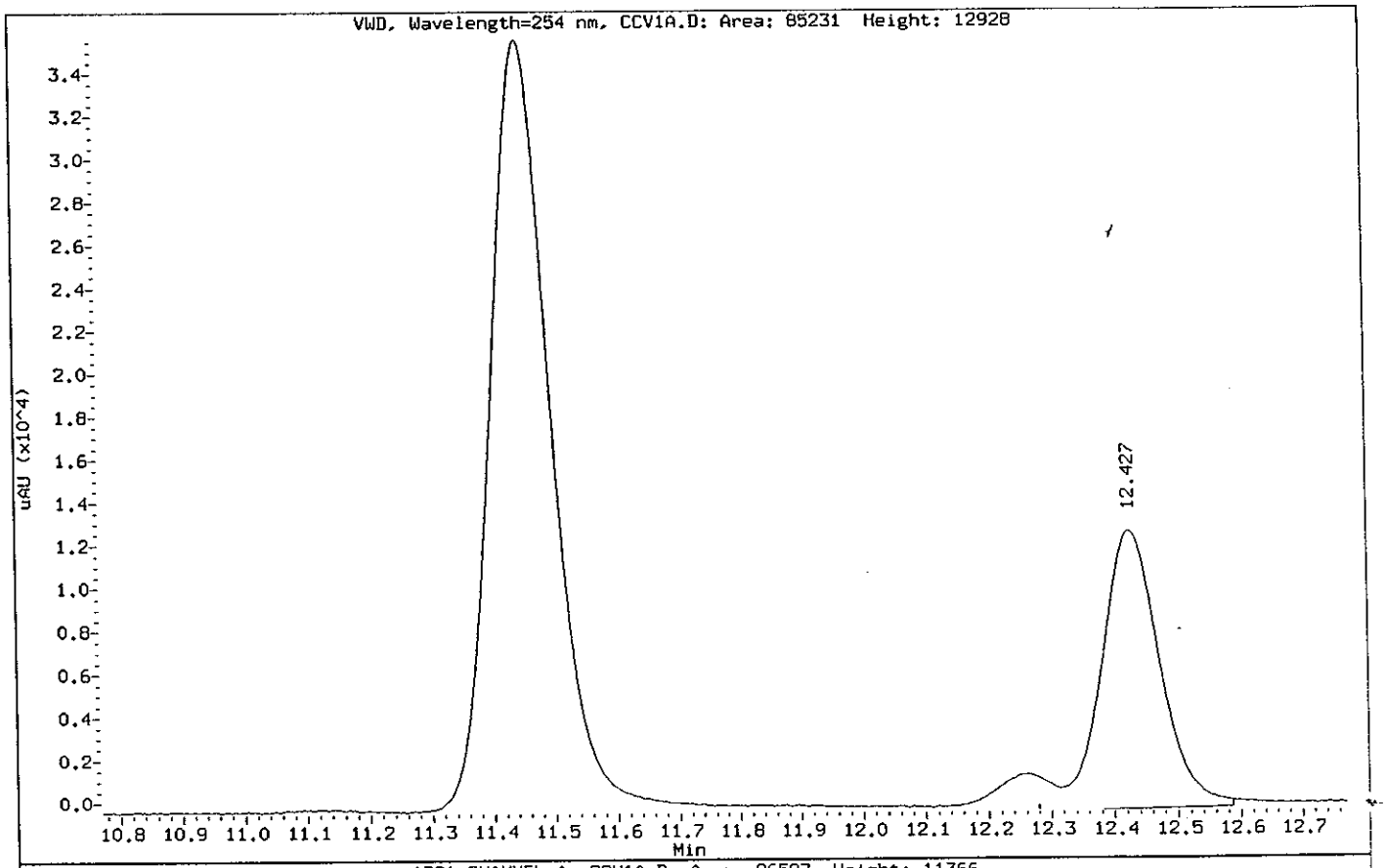
Operator: rood
Column diameter: 4.60

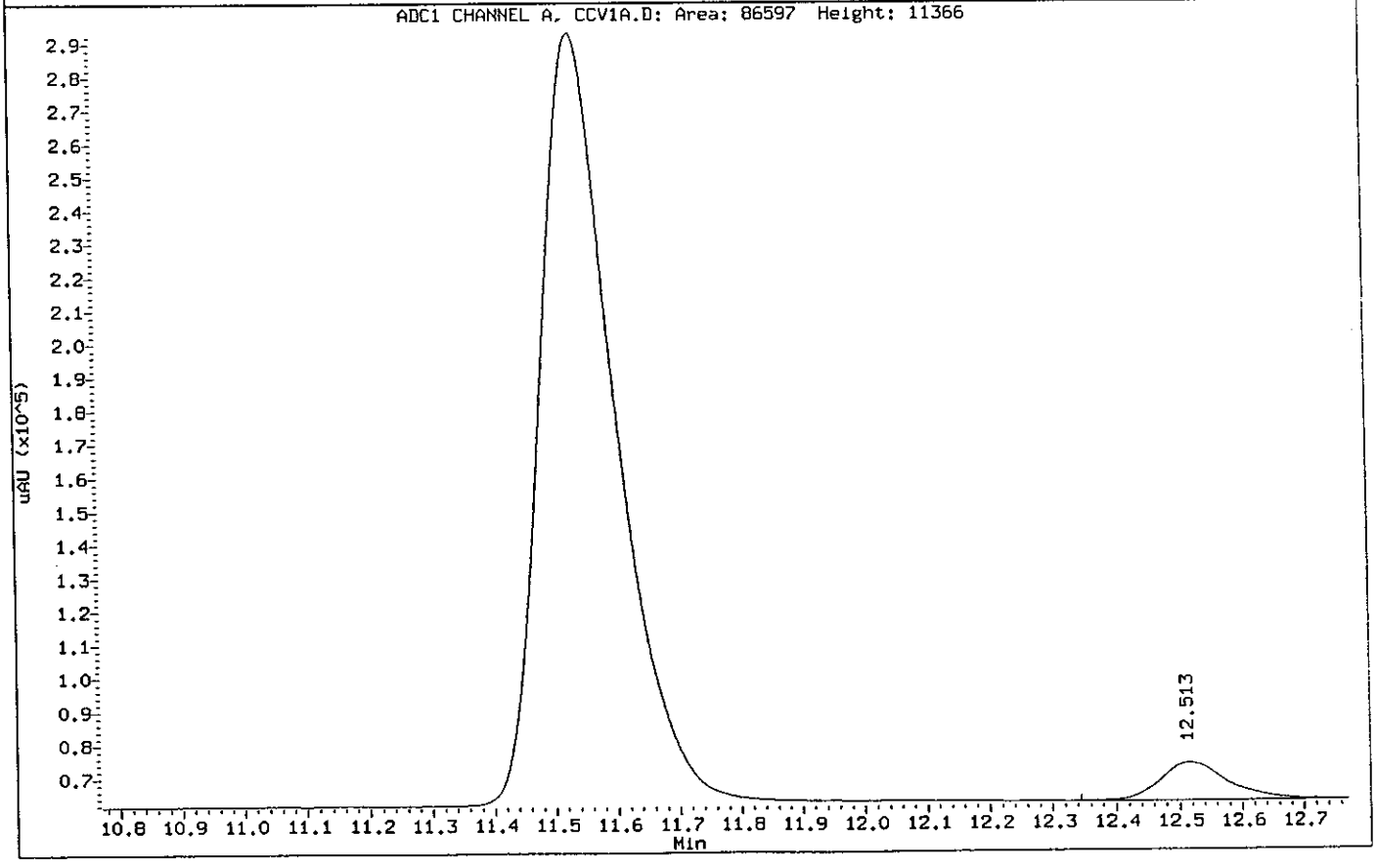
Column phase: Vydac201TP54



Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\CCV1A.D
Injection Date: 28-OCT-2001 21:01
Instrument: slc02.i
Client Sample ID: 15STD3206

Compound: Naphthalene
CAS Number: 91-20-3





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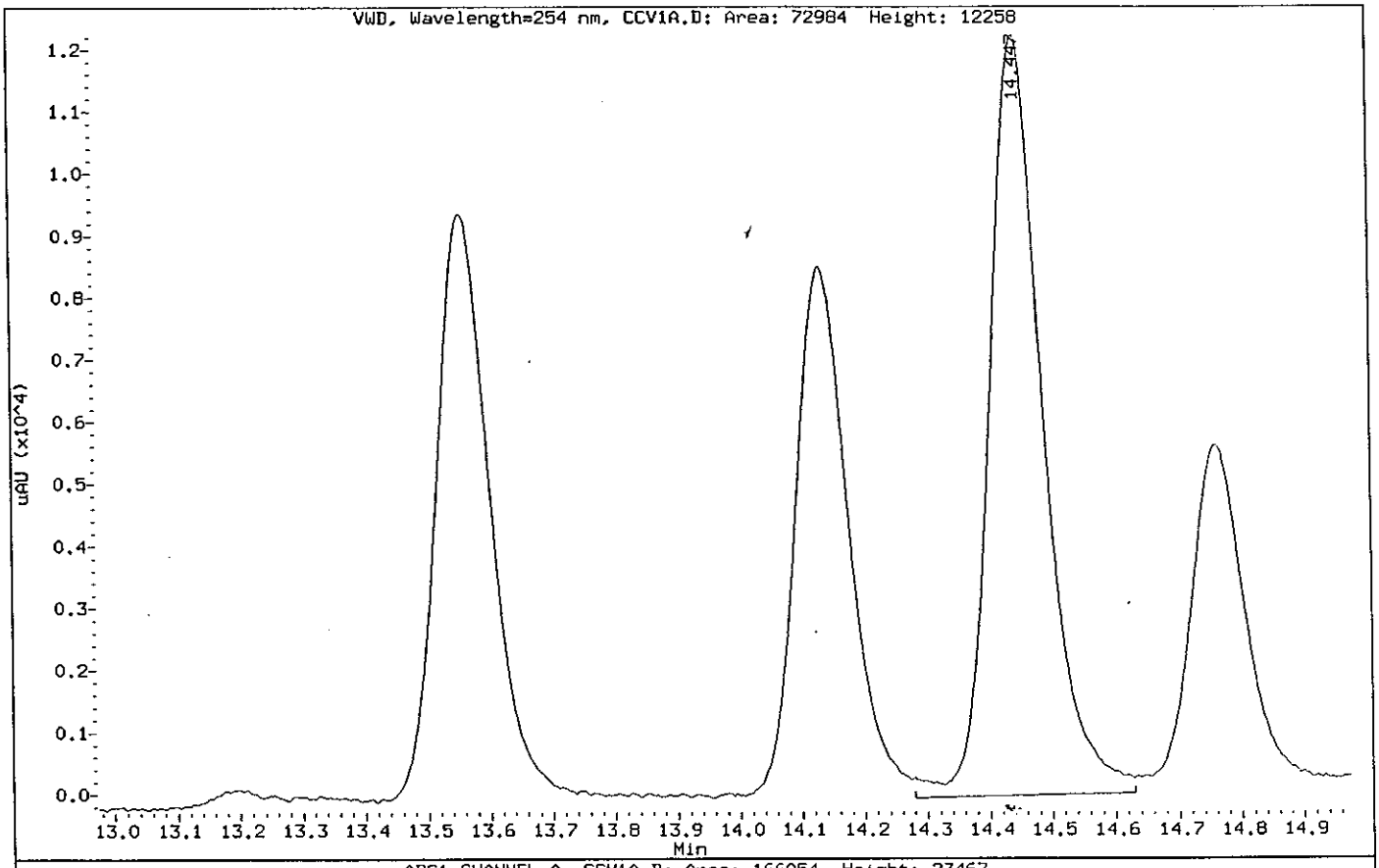
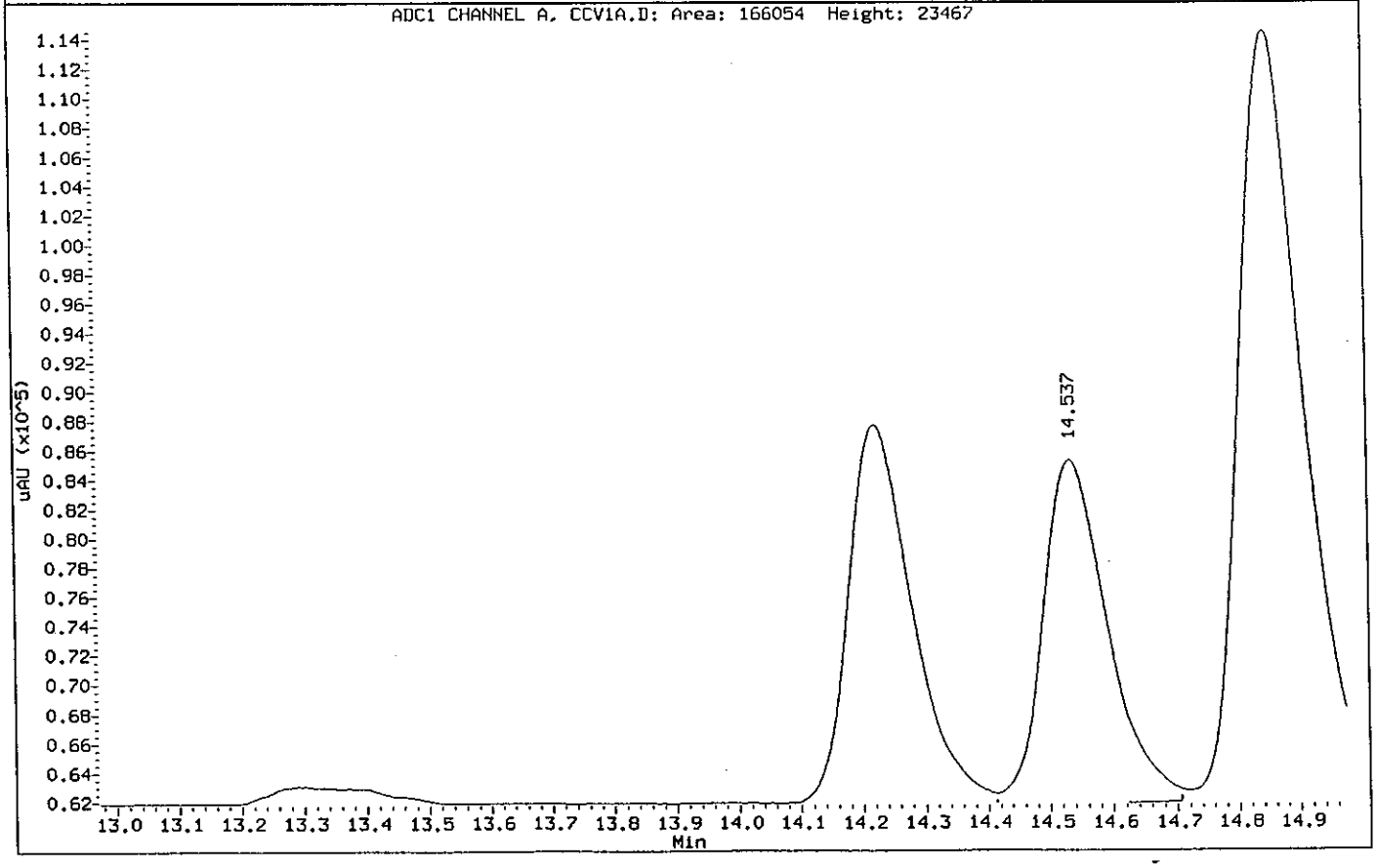
Injection Date: 28-OCT-2001 21:01
Instrument: slc02.i
Client Sample ID: 15STD3206

Compound: 2-Methyl naphthalene
CAS Number: 91-57-6





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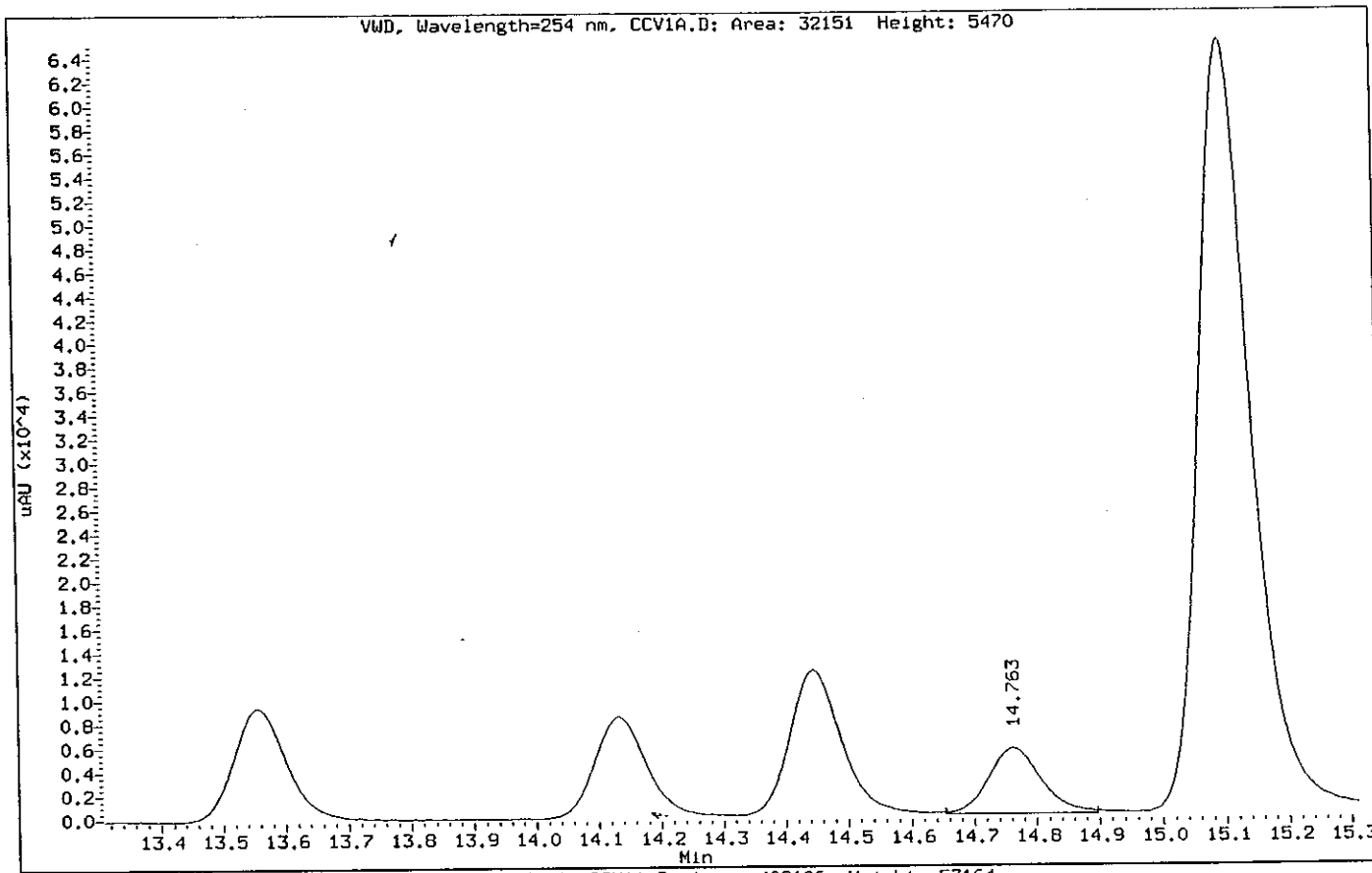
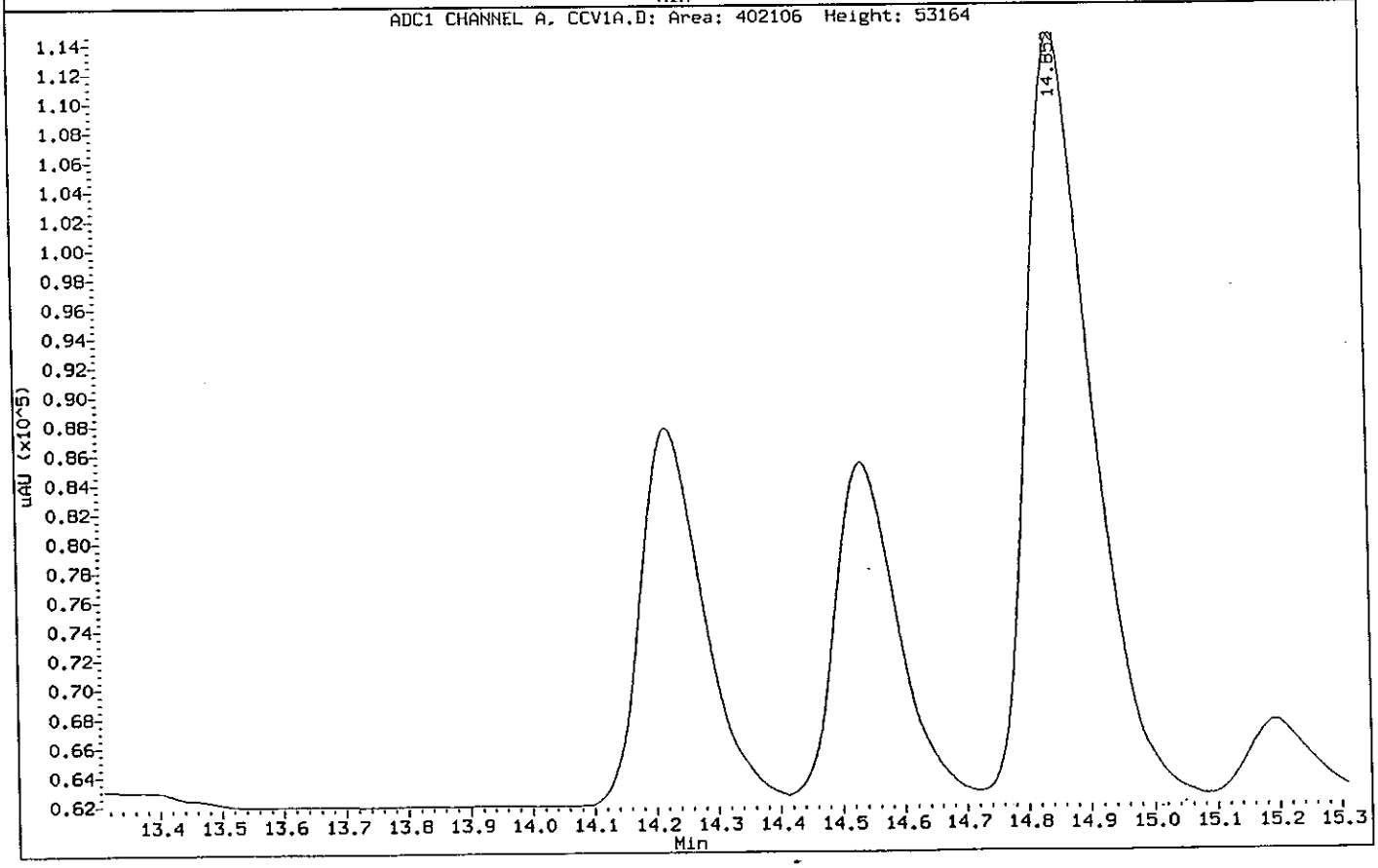
Instrument: slc02.i
Client Sample ID: 15STD3206

Compound: Acenaphthene
CAS Number: 83-32-9





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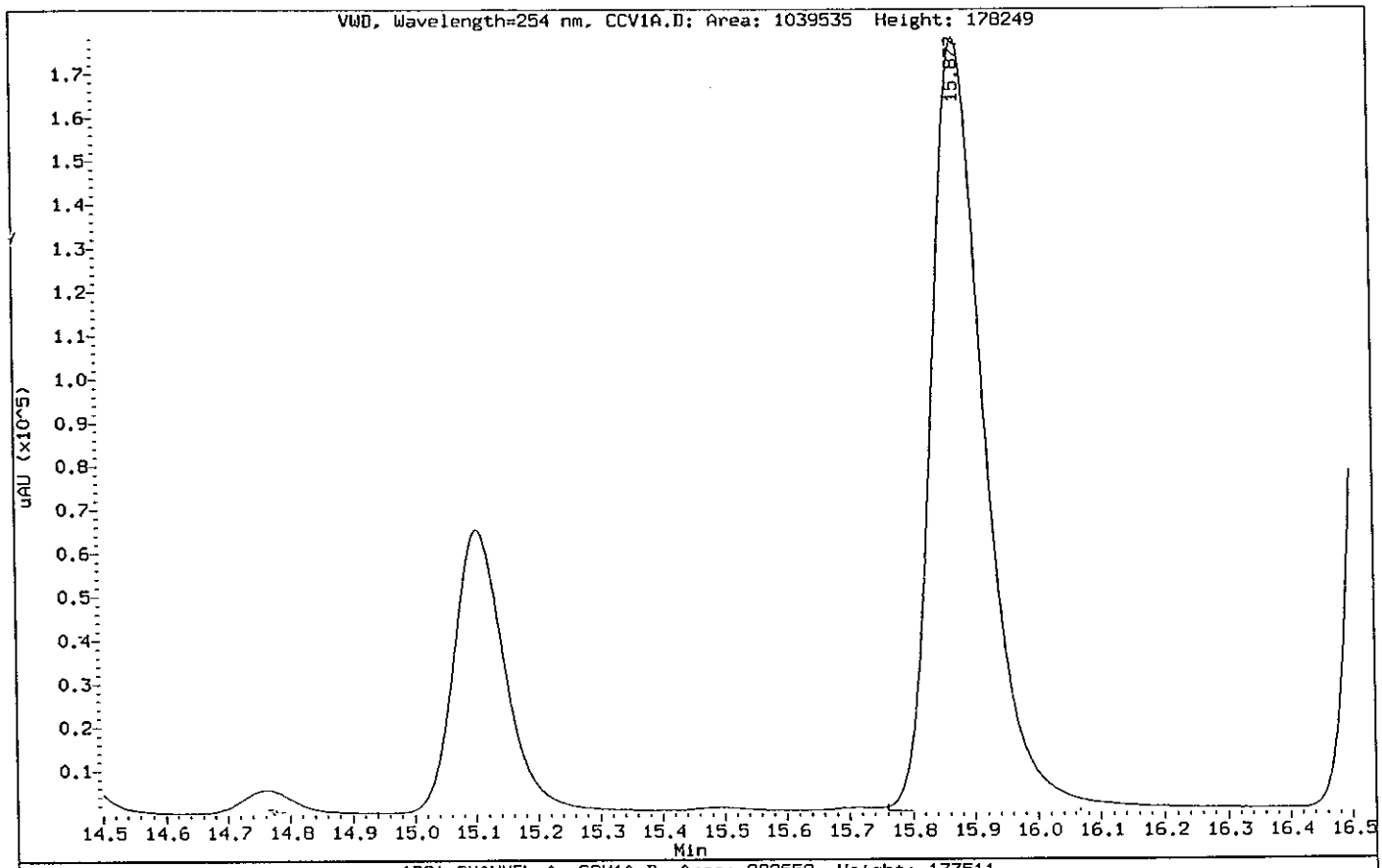
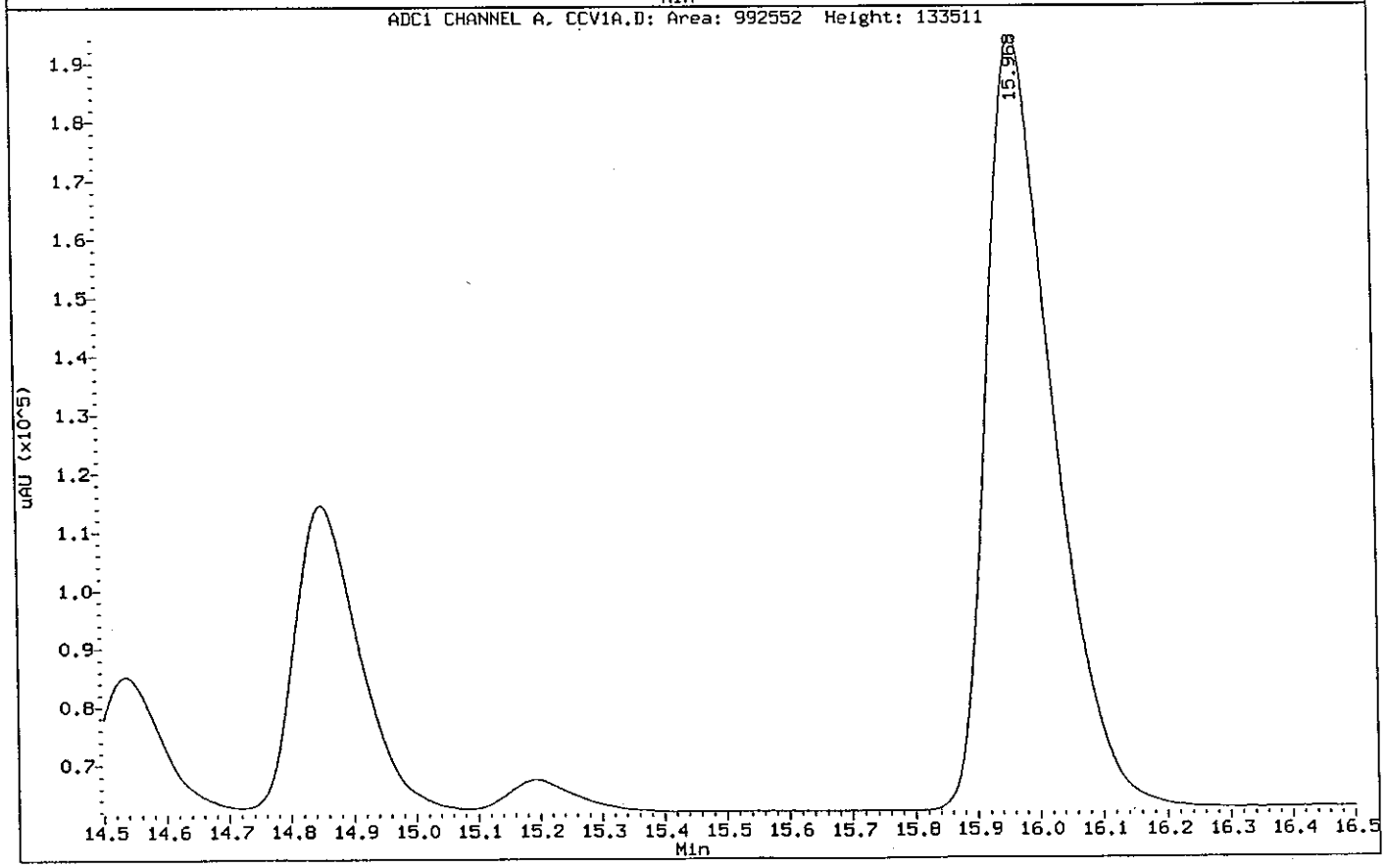
Injection Date: 28-OCT-2001 21:01
Instrument: slc02.i
Client Sample ID: 15STD3206

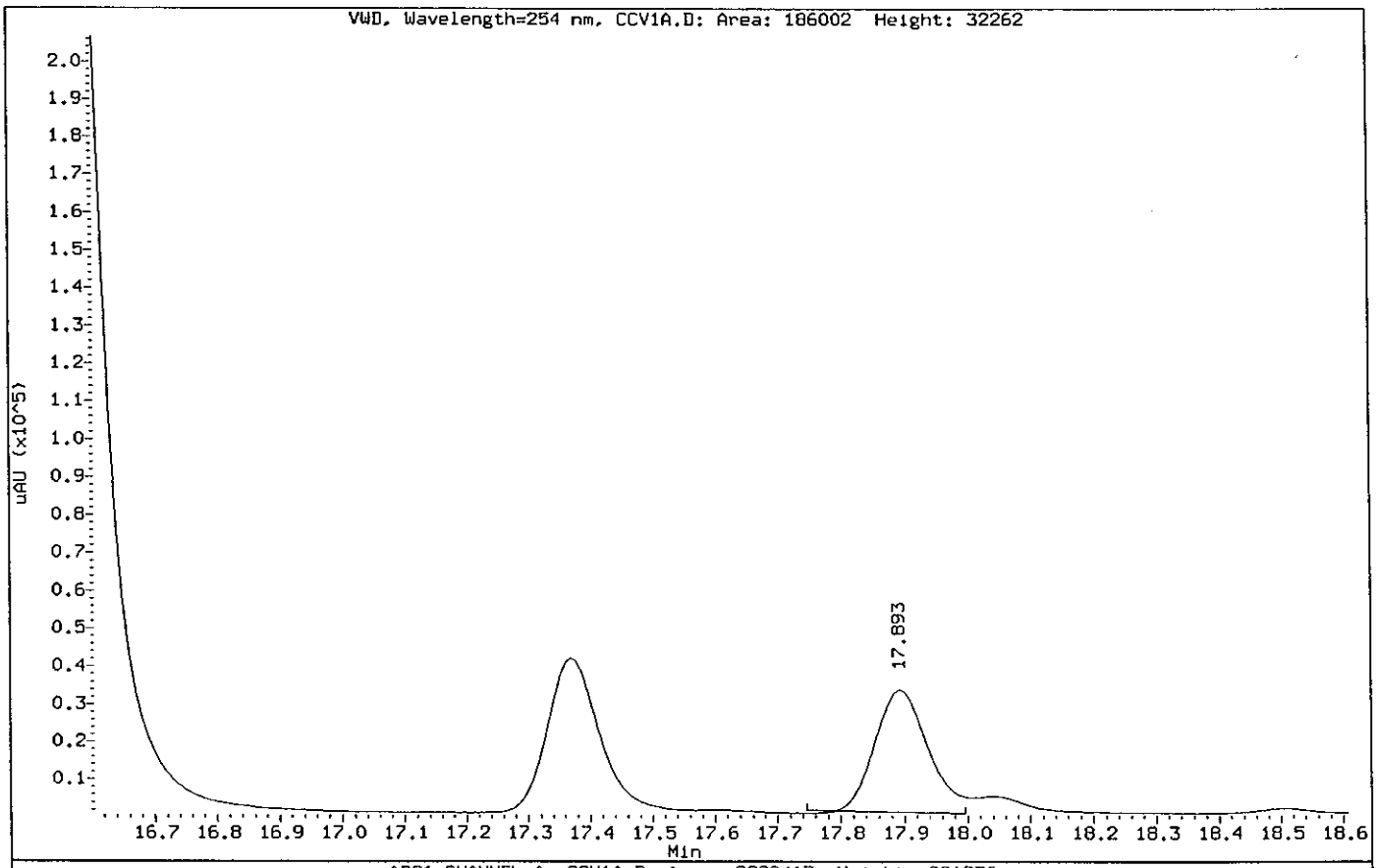
Compound: Phenanthrene
CAS Number: 85-01-8

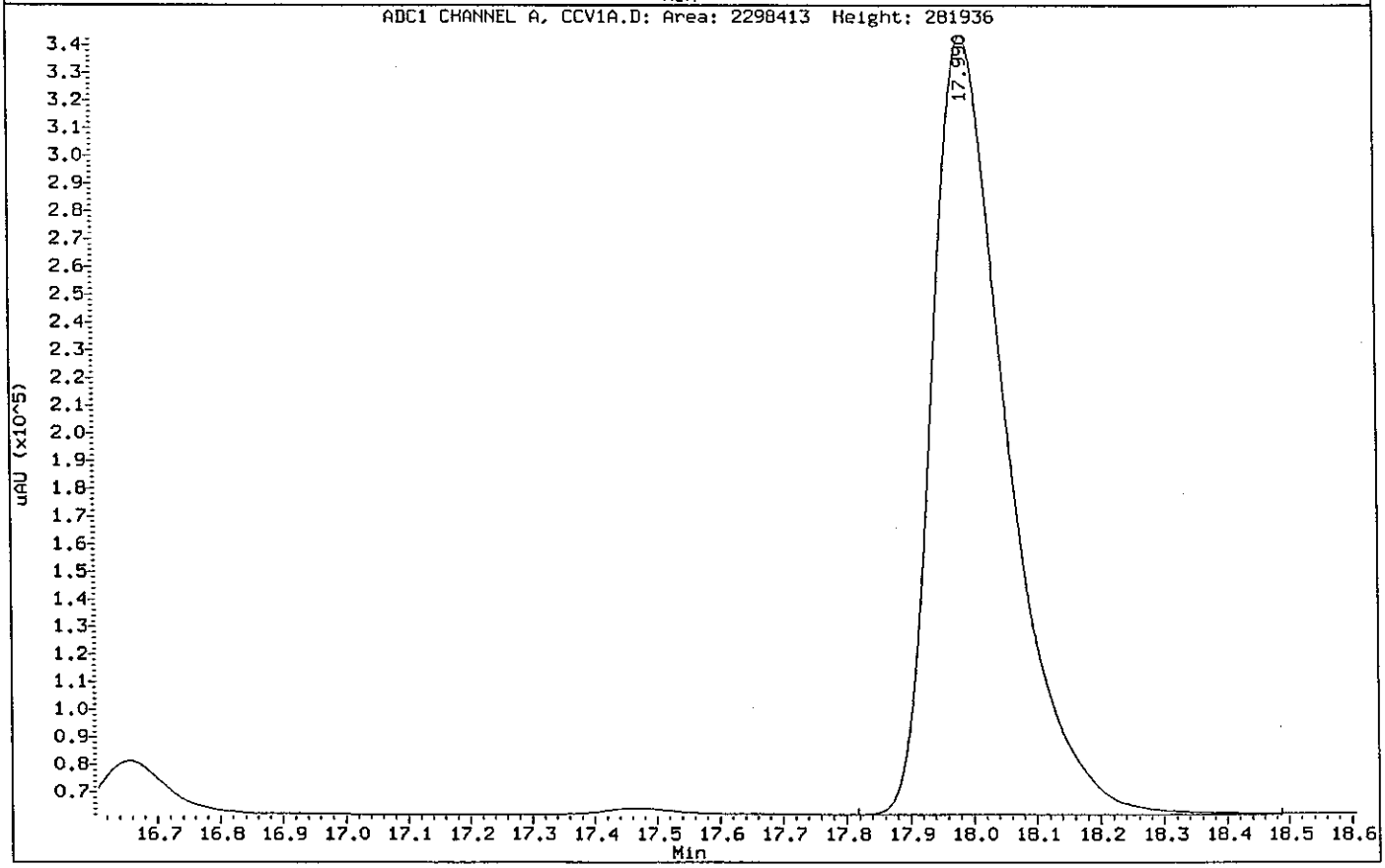




Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\CCV1A.D
Injection Date: 28-OCT-2001 21:01
Instrument: slc02.i
Client Sample ID: 15STD3206

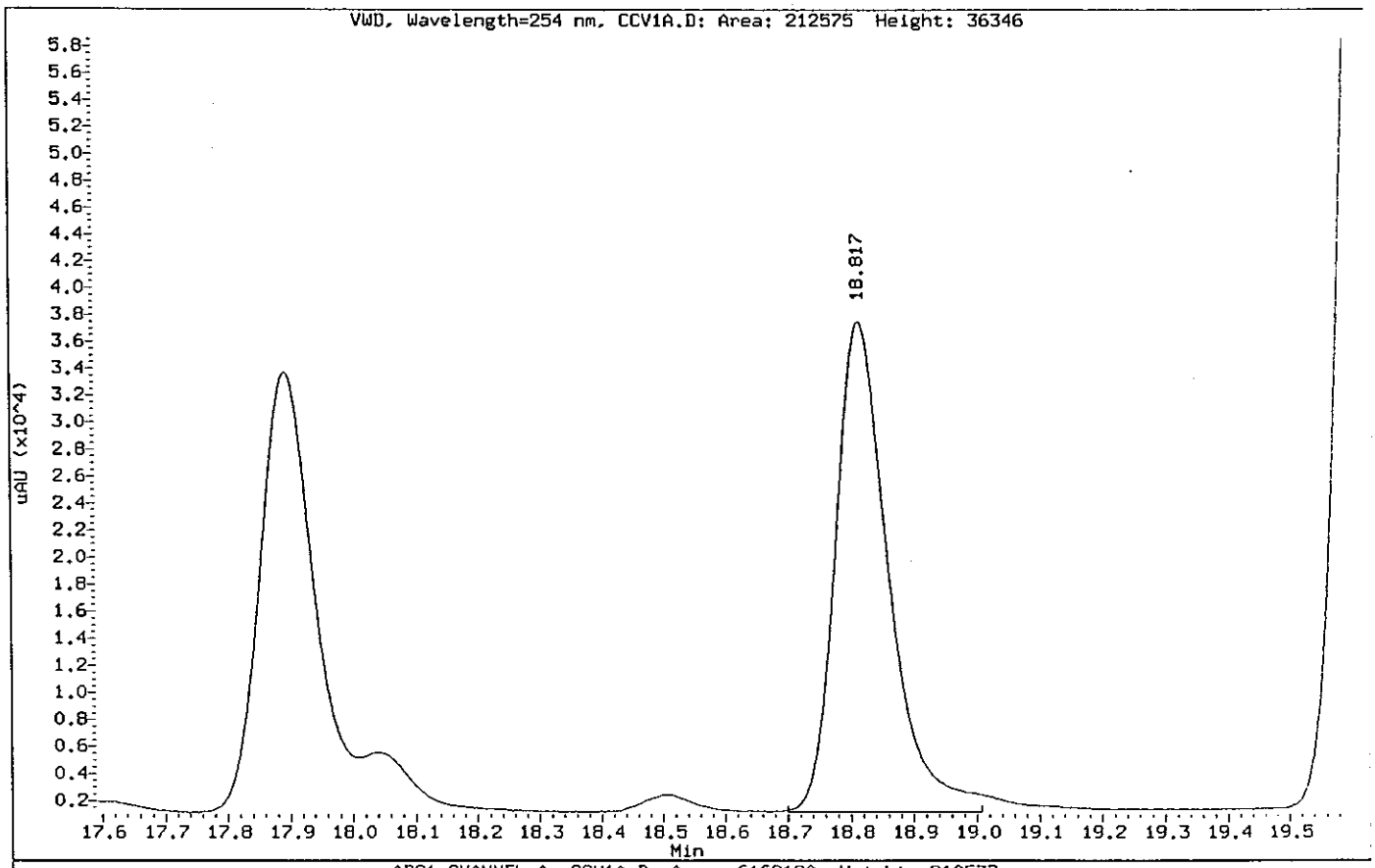
Compound: Pyrene
CAS Number: 129-00-0

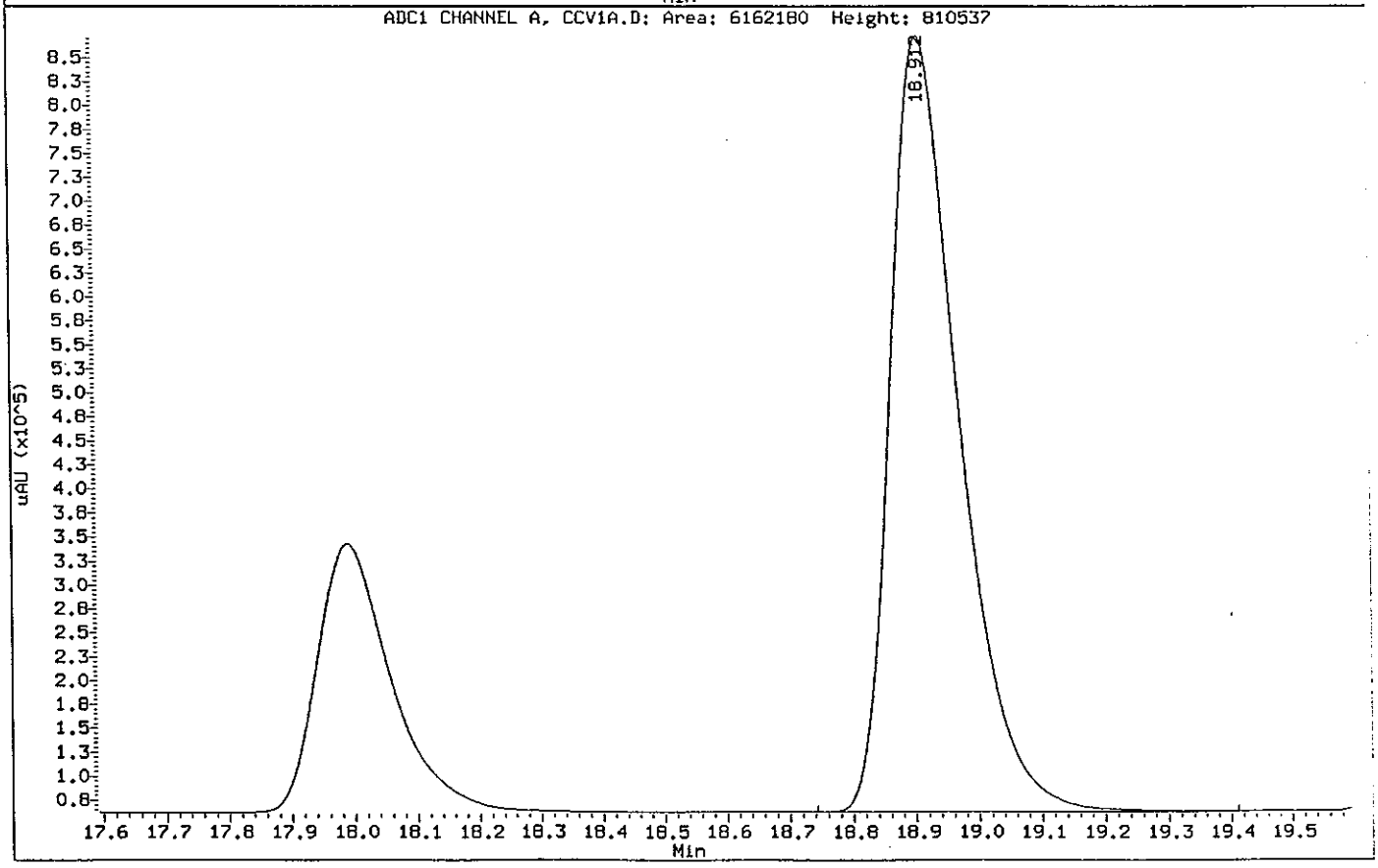




Data File: \\SVHPLC\ee\chem\slc02.i\L2102BR1.b\CCV1A.D
Injection Date: 28-OCT-2001 21:01
Instrument: slc02.i
Client Sample ID: 15STD3206

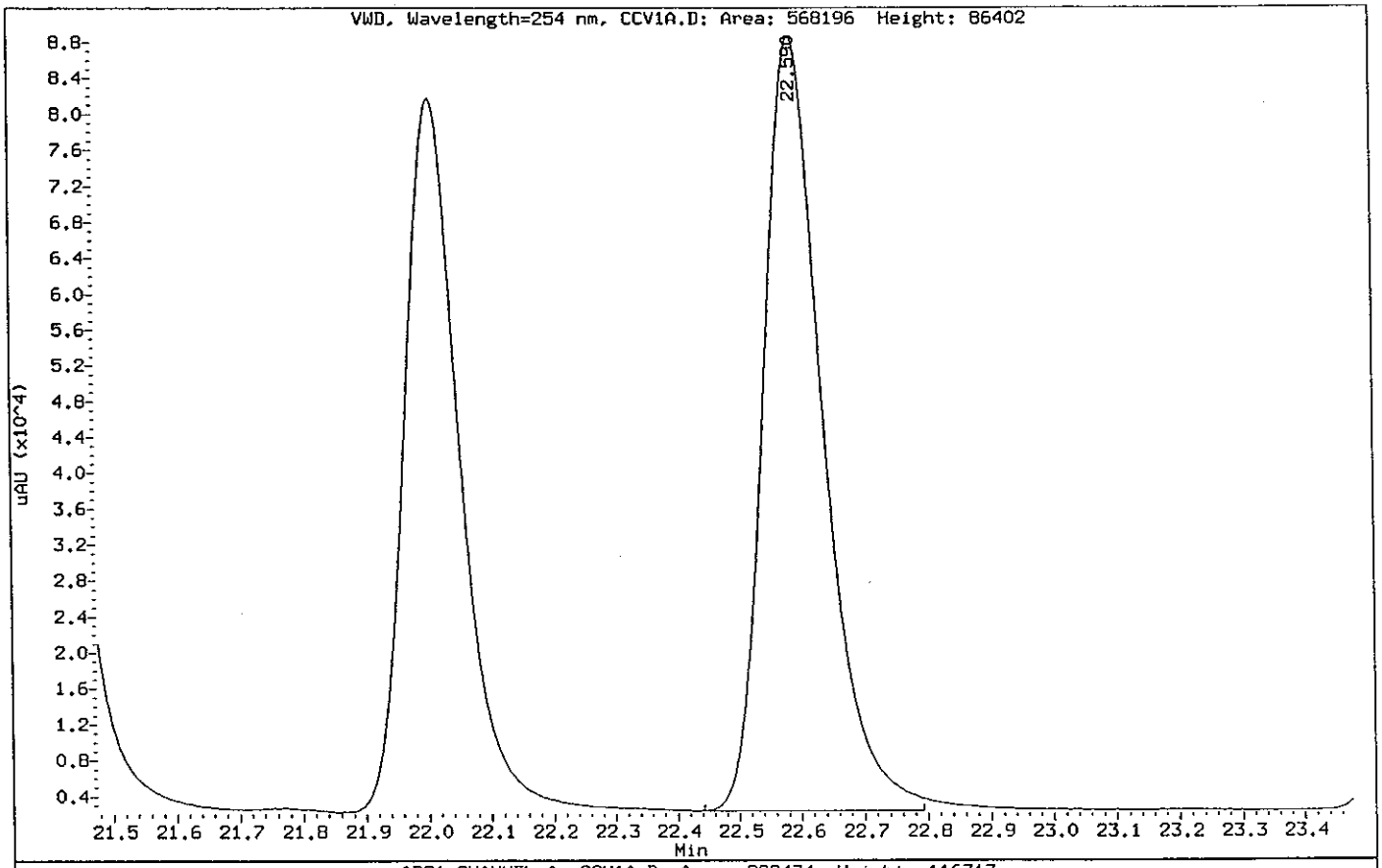
Compound: p-Terphenyl-d14 (SURR)
CAS Number: 1718-51-0

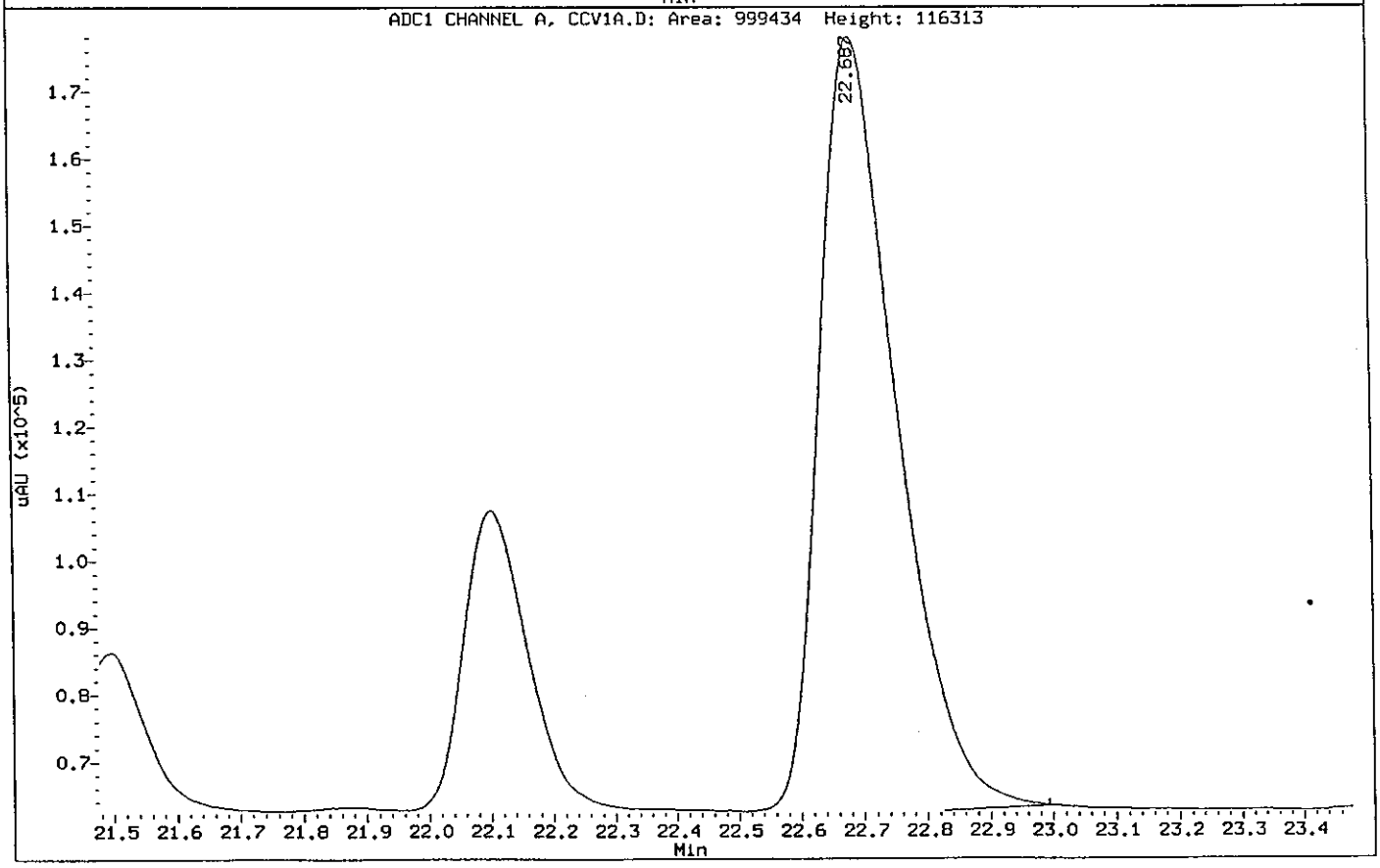




Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\CCV1A.D
Injection Date: 28-OCT-2001 21:01
Instrument: slc02.i
Client Sample ID: 15STD3206

Compound: Benzo(a)pyrene
CAS Number: 50-32-8





PEL Laboratories

Data file : \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-11.D
Lab Smp Id: 211009411 Client Smp ID: 062B106S101801
Inj Date : 28-OCT-2001 21:35
Operator : rood Inst ID: slc02.i
Smp Info : 211009411
Misc Info :
Comment :
Method : \\SVHPLC\ee\chem\slc02.i\L21028R1.b\8310S.m
Meth Date : 02-Nov-2001 08:36 jdonnelly Quant Type: ISTD
Cal Date : 28-OCT-2001 20:26 Cal File: PT2UGML.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: navy50.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	9.089	% Moisture
Vf	1.000	Final Volume

RT	EXP RT	REL RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO
* 1 Carbazole (ISTD)						CAS #: 86-74-8		
11.430	10.610	(1.000)	VWD1A	274197			80.00- 120.00	100.00
11.519	10.610	(1.000)	ADC1A	2062944	10.0000		652.03- 978.05	752.36
8 Phenanthrene						CAS #: 85-01-8		
15.870	15.500	(1.388)	VWD1A	51084	0.70206	23.4	80.00- 120.00	100.00(aM)
15.959	15.500	(1.396)	ADC1A	51866	0.75112	25.0	78.58- 117.87	101.53
11 Pyrene						CAS #: 129-00-0		
17.886	17.606	(1.565)	VWD1A	7613	0.57025	19.0	80.00- 120.00	100.00(aM)
17.979	17.606	(1.573)	ADC1A	157839	0.88507	29.5	930.64-1395.96	2073.28
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.816	18.593	(1.646)	VWD1A	237102	15.3307	511	80.00- 120.00	100.00(M)

RT	EXP RT	REL RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	CONCENTRATIONS FINAL (ug/kg)	TARGET RANGE	RATIO
$ 12 p-Terphenyl-d14 (SURR) (continued)								
18.910	18.593	(1.654)	ADC1A	6952788	16.4246	547	2246.35-3369.53	2932.40
13 Benzo(a)Anthracene						CAS #: 56-55-3		
19.630	19.426	(1.717)	VWD1A	28112	0.68890	23.0	80.00- 120.00	100.00(aM)
19.729	19.426	(1.726)	ADC1A	270494	0.61675	20.6	881.58-1322.37	962.20
14 Chrysene						CAS #: 218-01-9		
20.010	19.820	(1.751)	VWD1A	59701	1.02399	34.1	80.00- 120.00	100.00(aM)
20.109	19.820	(1.759)	ADC1A	68659	0.49447	16.5	190.14- 285.21	115.00
15 Benzo(b)Fluoranthene						CAS #: 205-99-2		
21.393	21.253	(1.872)	VWD1A	49654	1.10381	36.8	80.00- 120.00	100.00(aM)
21.464	21.253	(1.878)	ADC1A	56089	4.76212	159	20.85- 31.28	112.96
17 Benzo(a)pyrene						CAS #: 50-32-8		
22.586	22.476	(1.976)	VWD1A	48361	1.20625	40.2	80.00- 120.00	100.00(aM)
22.670	22.476	(1.983)	ADC1A	63564	0.94905	31.6	138.13- 207.19	131.44
19 Benzo(ghi)Perylene						CAS #: 191-24-2		
24.300	24.226	(2.126)	VWD1A	18167	1.19809	39.9	80.00- 120.00	100.00(aM)
24.369	24.226	(2.132)	ADC1A	153396	4.99459	166	155.32- 232.98	844.37
20 Indeno(123cd)Pyrene						CAS #: 193-39-5		
24.763	24.703	(2.167)	VWD1A	43456	1.13673	37.9	80.00- 120.00	100.00(aM)
24.837	24.703	(2.173)	ADC1A	592			0.00- 0.00	1.36

QC Flag Legend

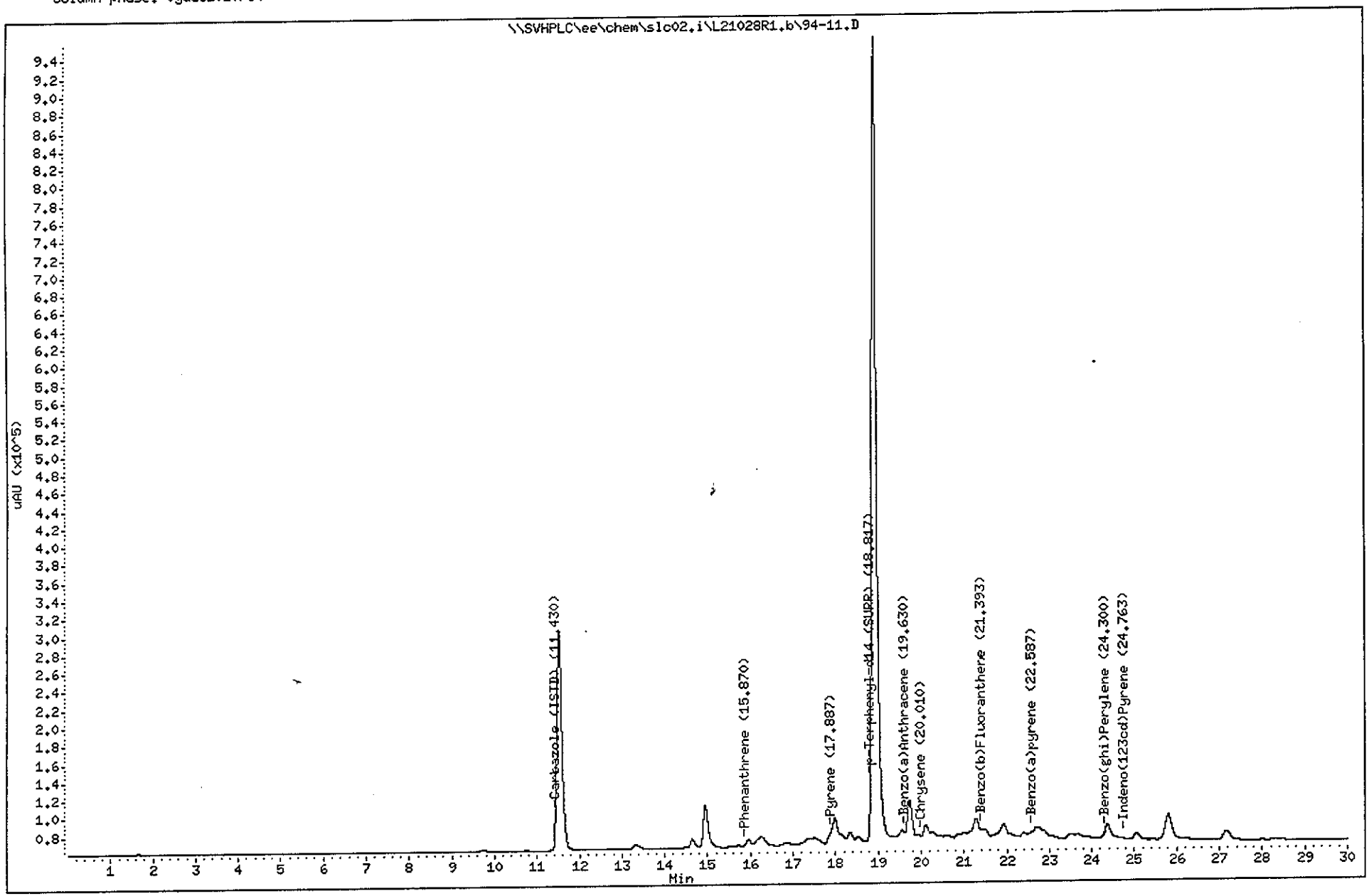
a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-11.D
Date : 28-OCT-2001 21:35
Client ID: 062B106S101801
Sample Info: 211009411

Instrument: slc02.i

Operator: rood
Column diameter: 4.60

Column phase: Vydac201TP54



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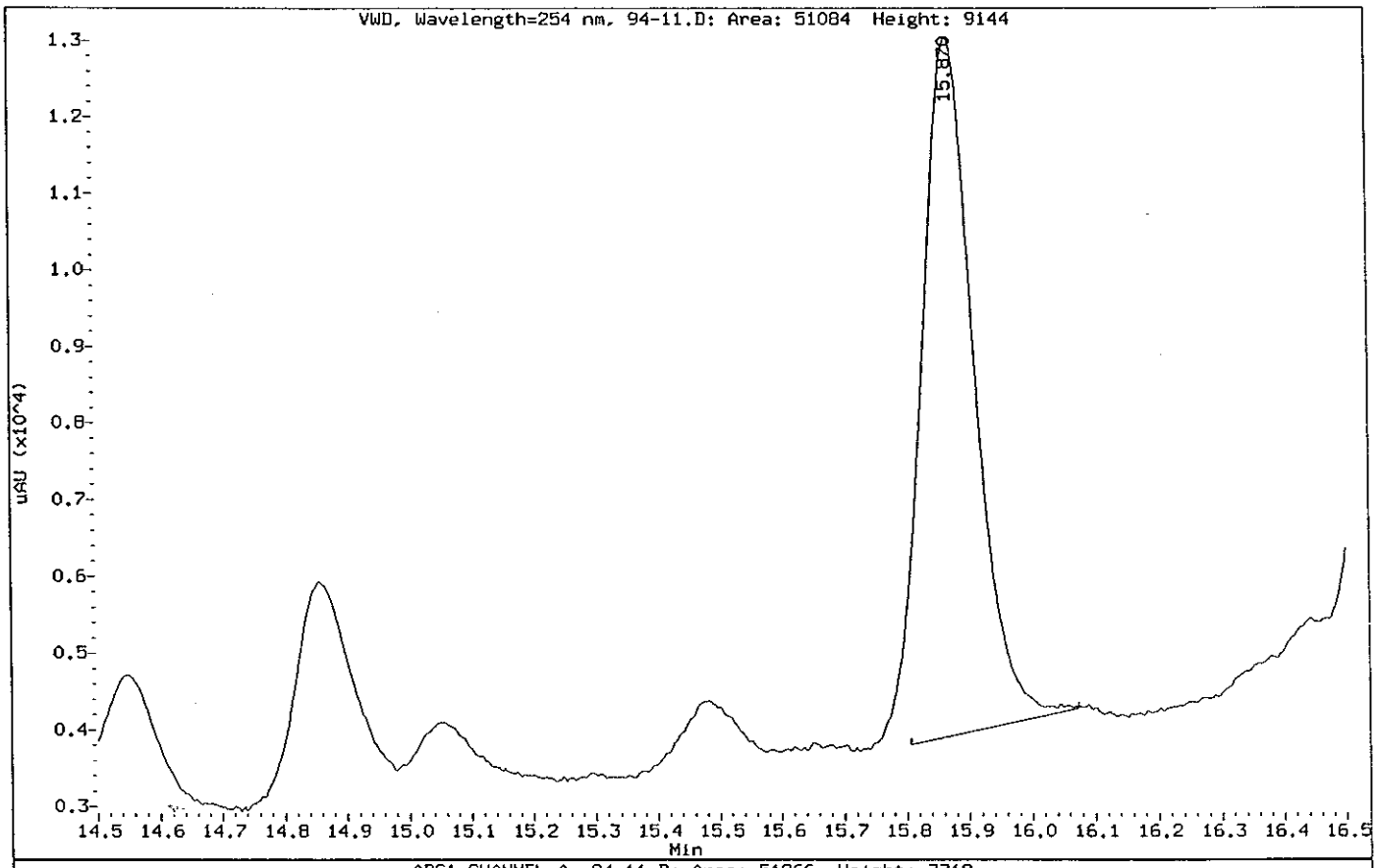
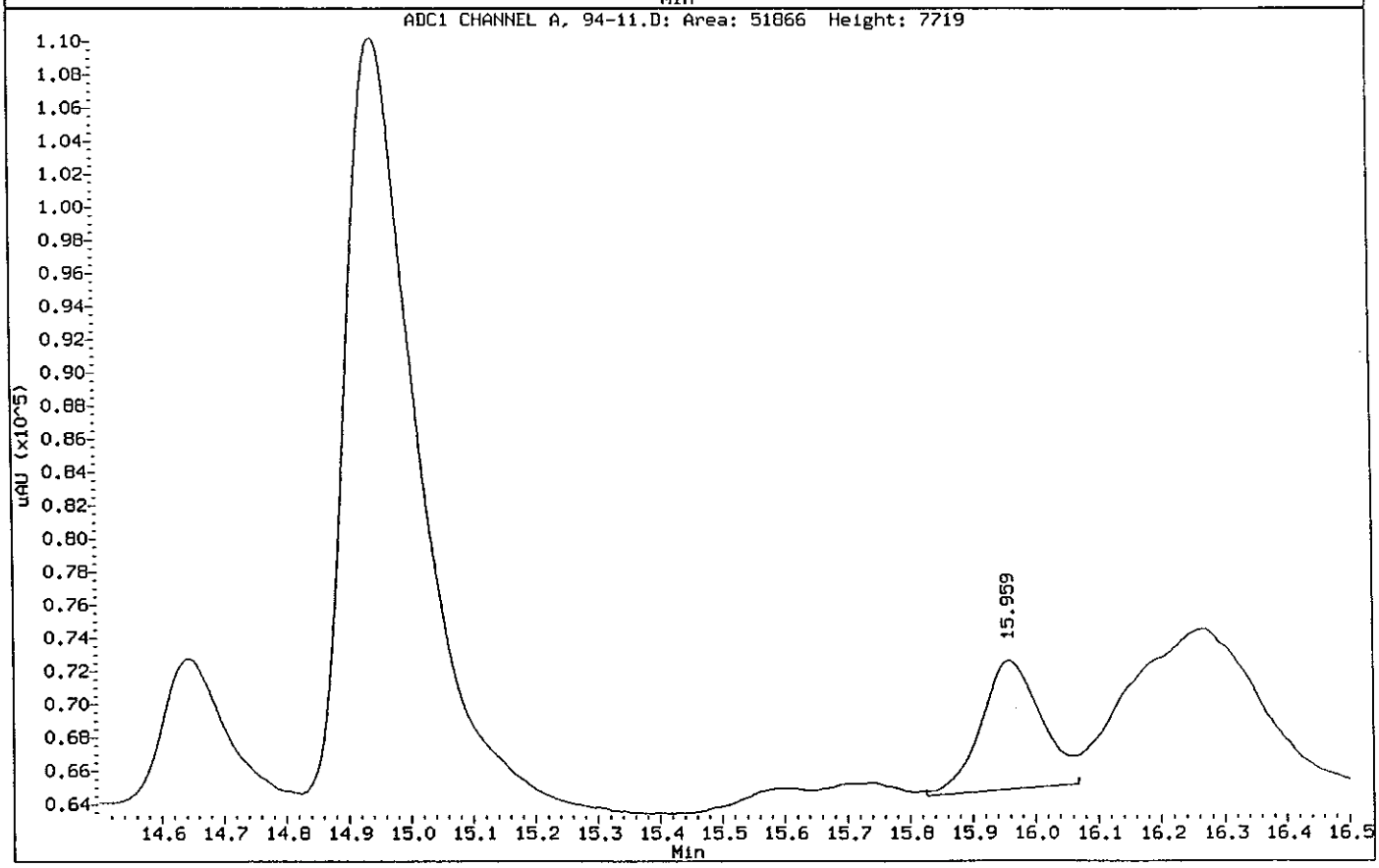
Injection Date: 28-OCT-2001 21:35
Instrument: slc02.i
Client Sample ID: 062B106S101801

Compound: Phenanthrene
CAS Number: 85-01-8

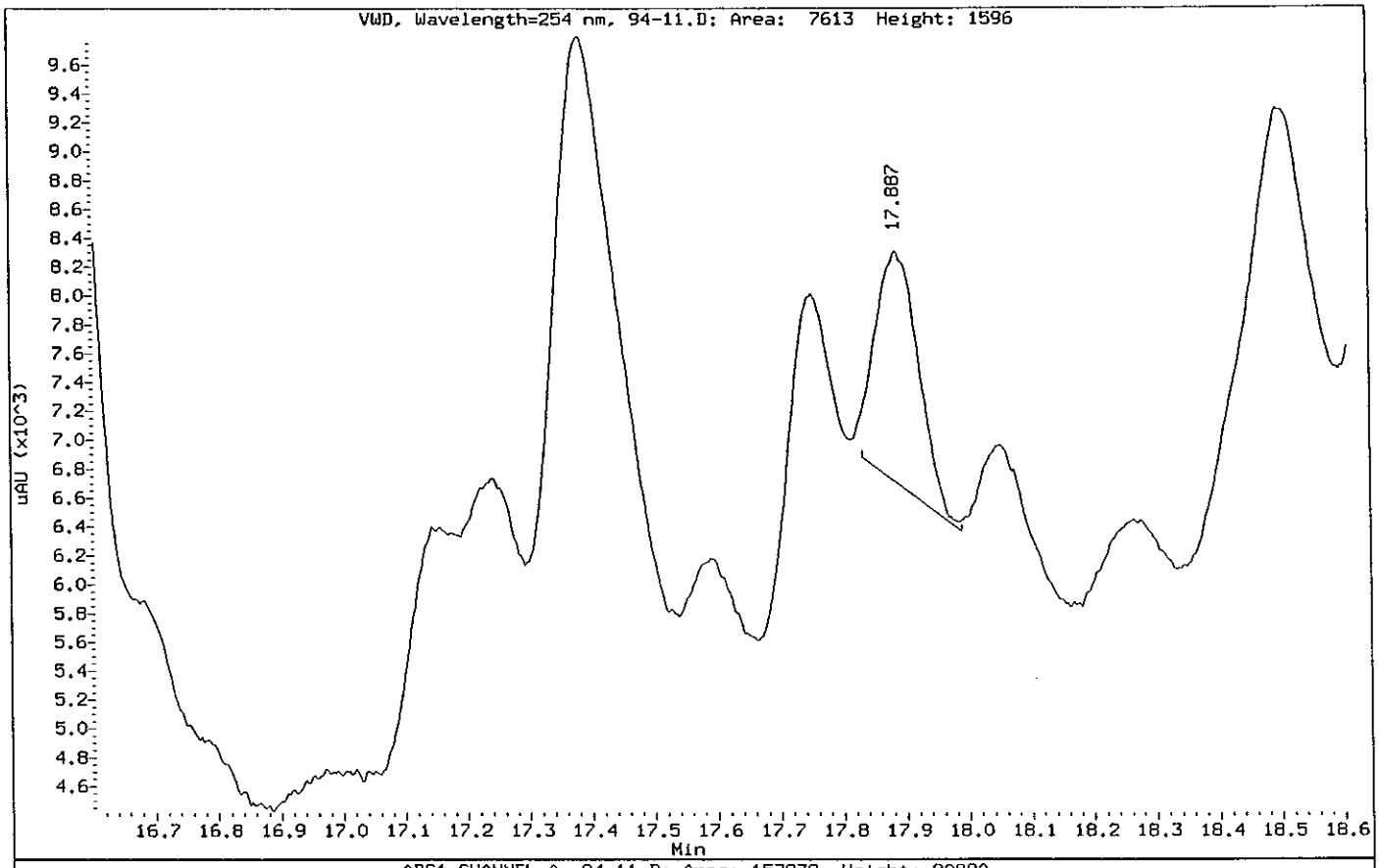


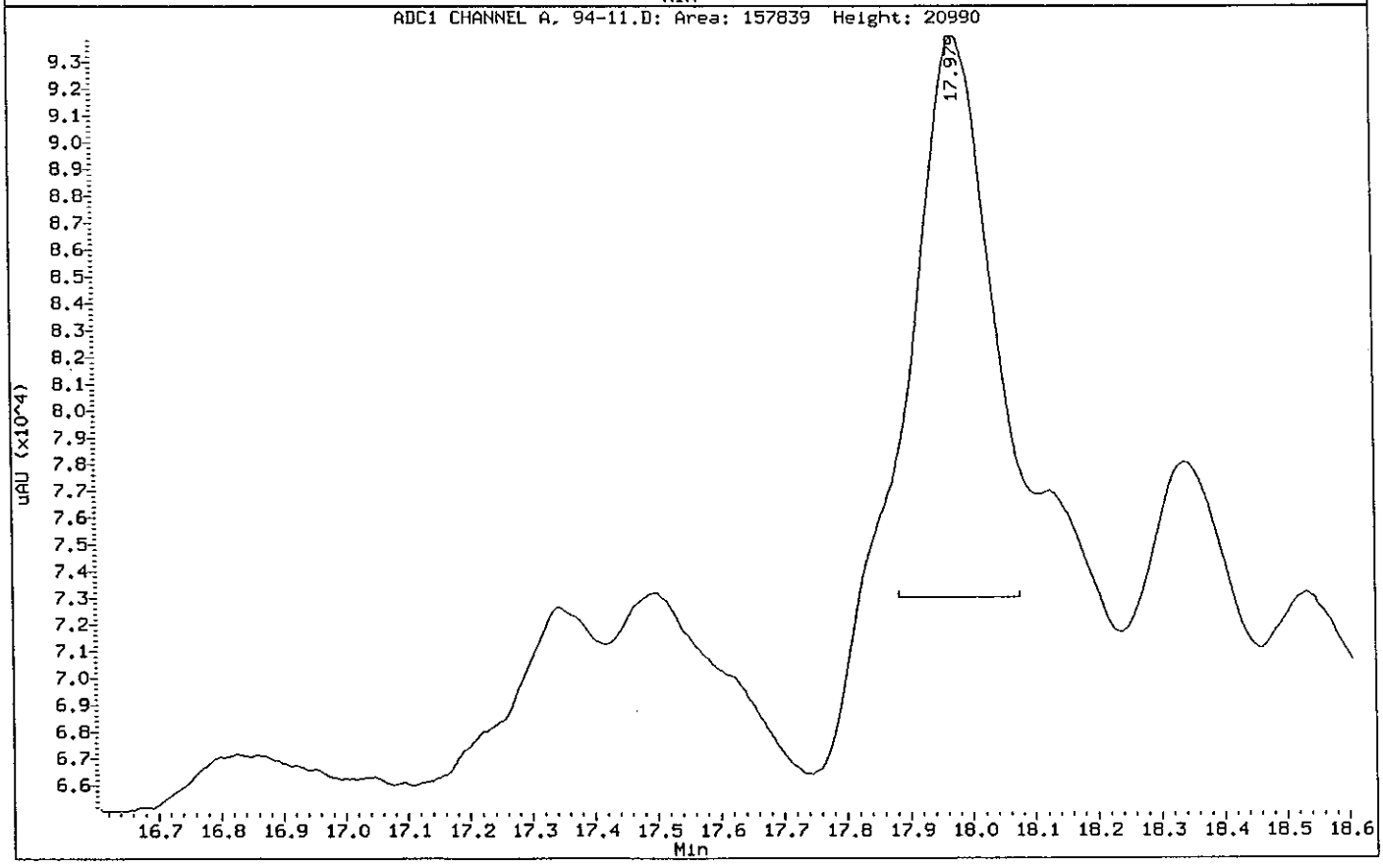


TMD

Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-11.D
Injection Date: 28-OCT-2001 21:35
Instrument: slc02.i
Client Sample ID: 062B106S101801

Compound: Pyrene
CAS Number: 129-00-0

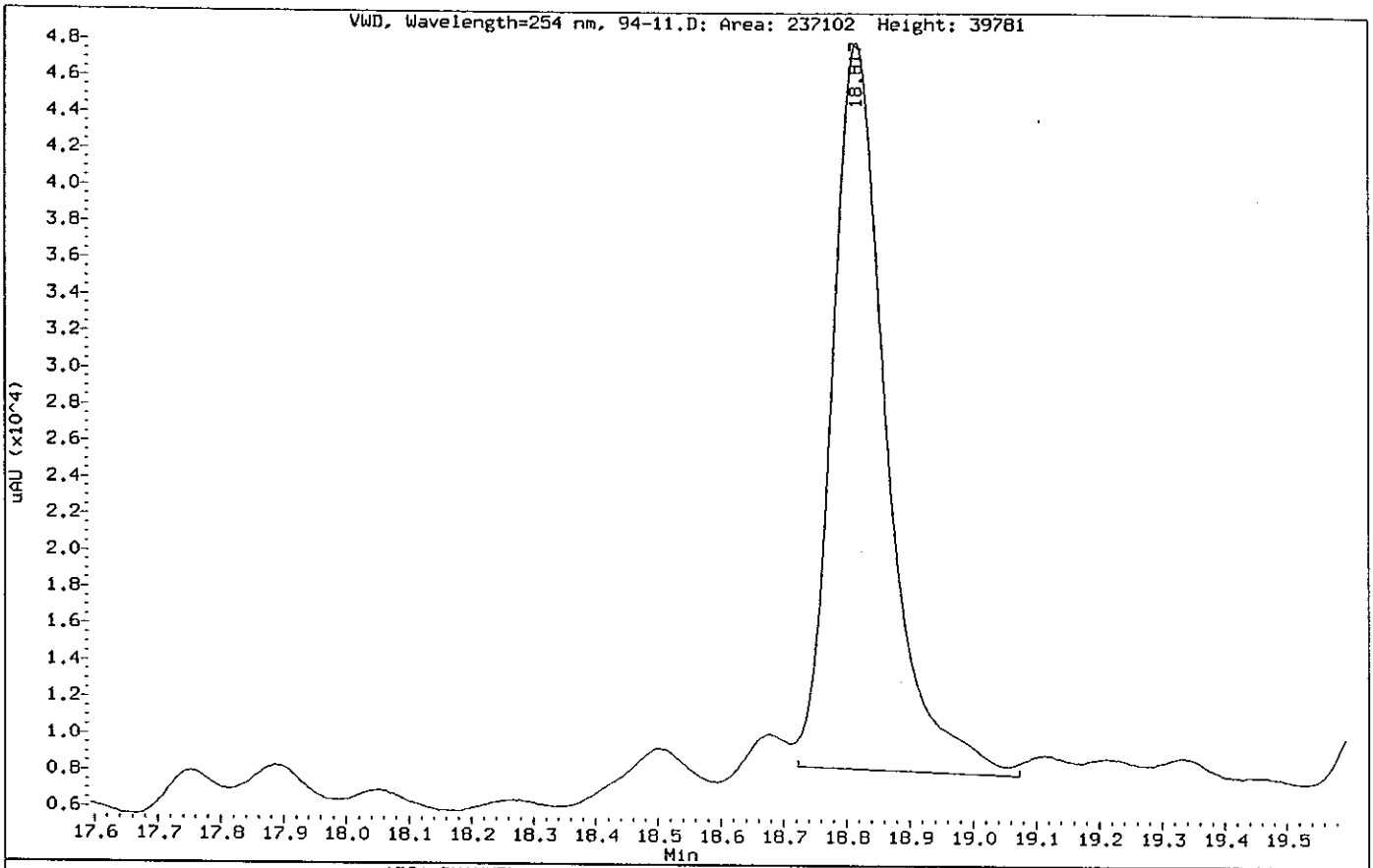


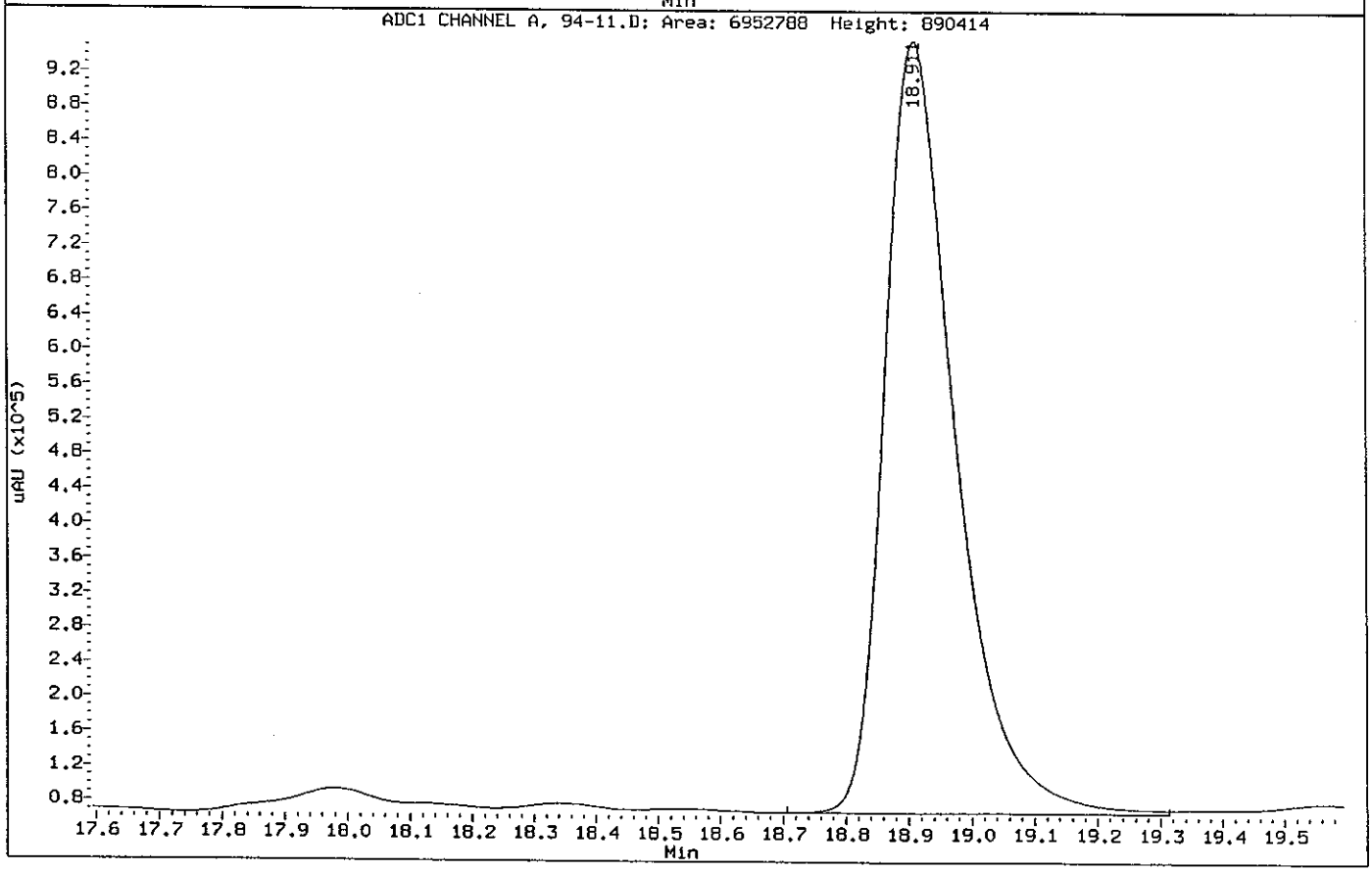


TMD

Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-11.D
Injection Date: 28-OCT-2001 21:35
Instrument: slc02.i
Client Sample ID: 062B106S101801

Compound: p-Terphenyl-d14 (SURR)
CAS Number: 1718-51-0





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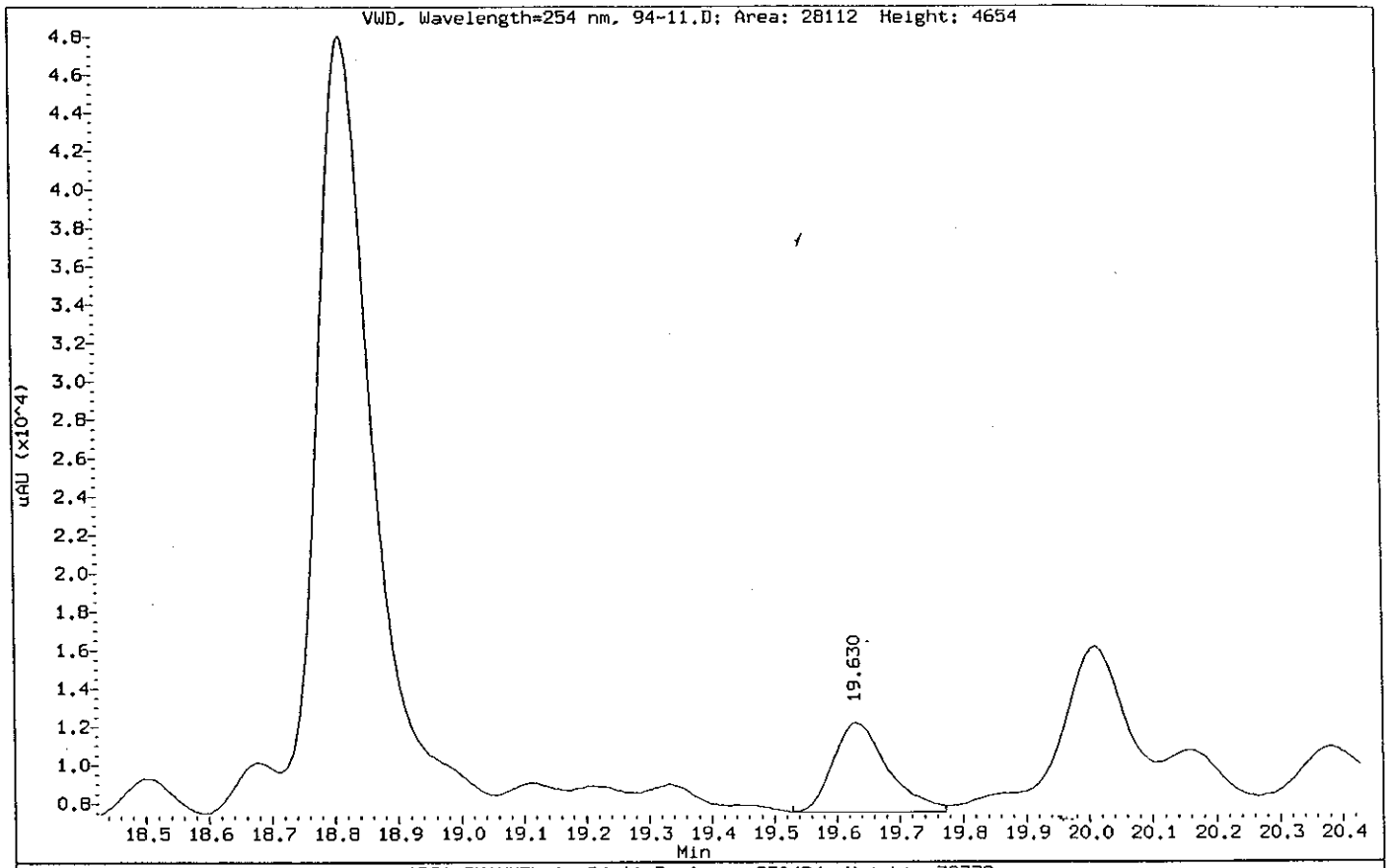
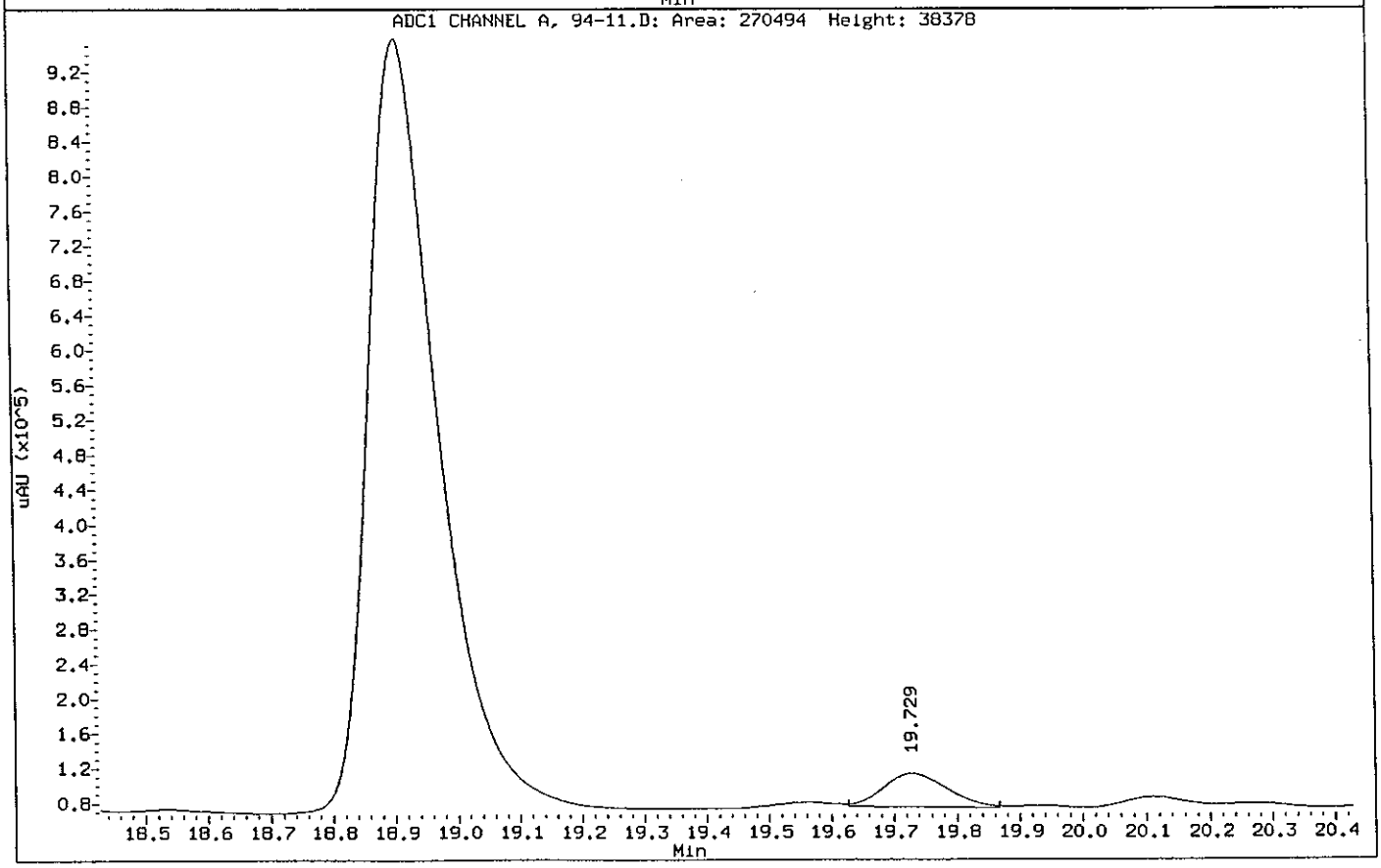
Injection Date: 28-OCT-2001 21:35
Instrument: slc02.i
Client Sample ID: 062B106S101801

Compound: Benzo(a)Anthracene
CAS Number: 56-55-3

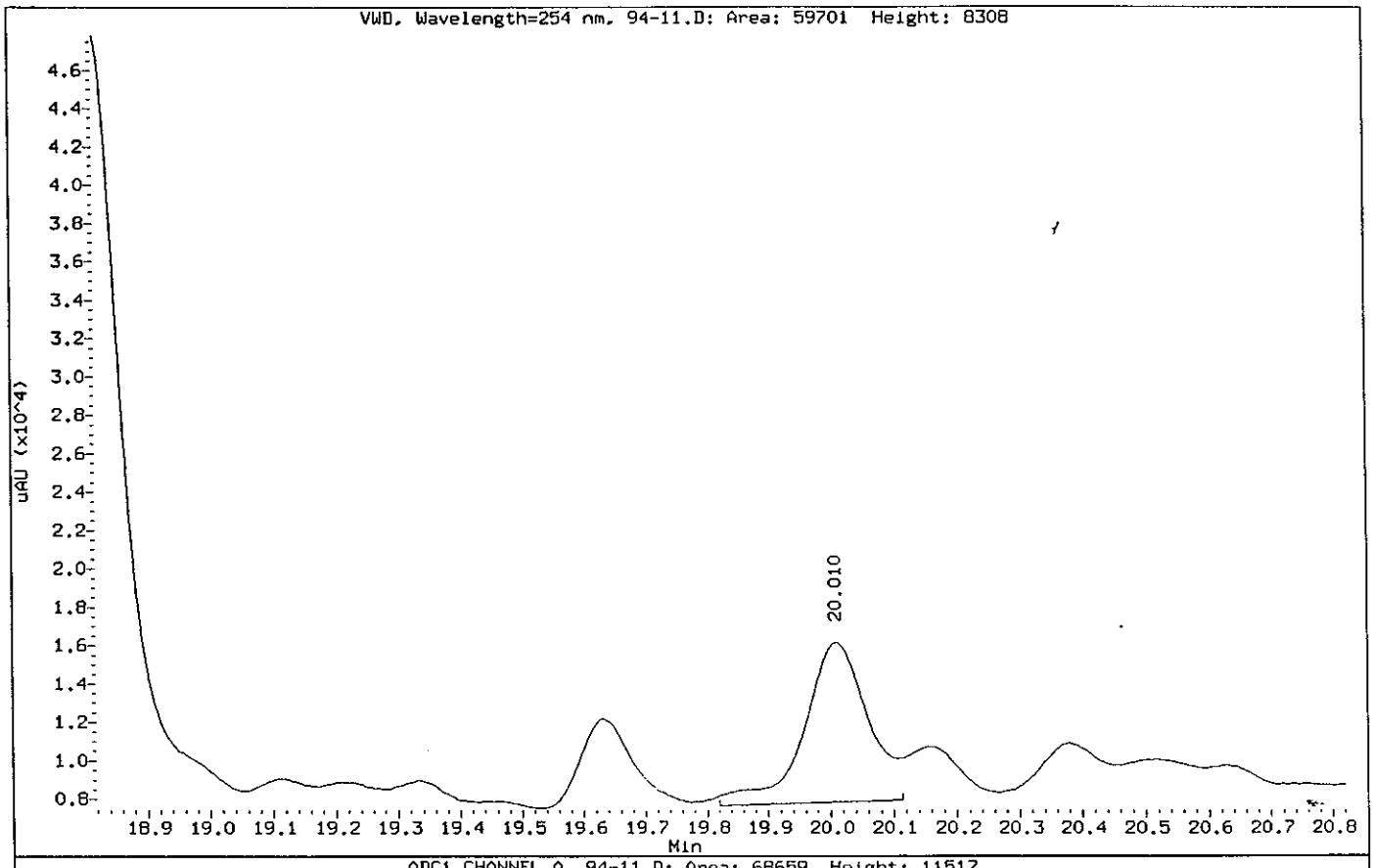


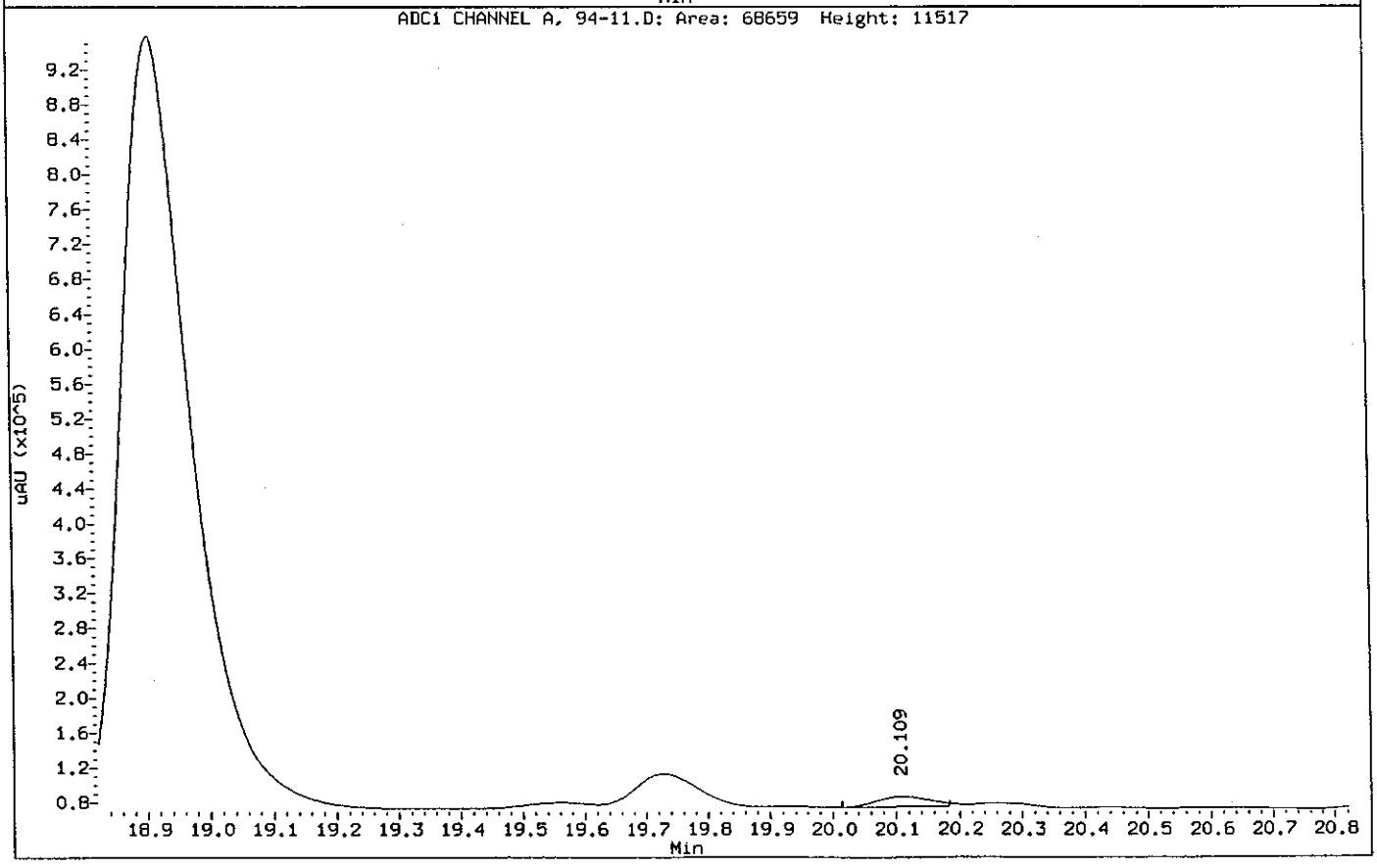


JMD

Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-11.D
Injection Date: 28-OCT-2001 21:35
Instrument: slc02.i
Client Sample ID: 062B106S101801

Compound: Chrysene
CAS Number: 218-01-9





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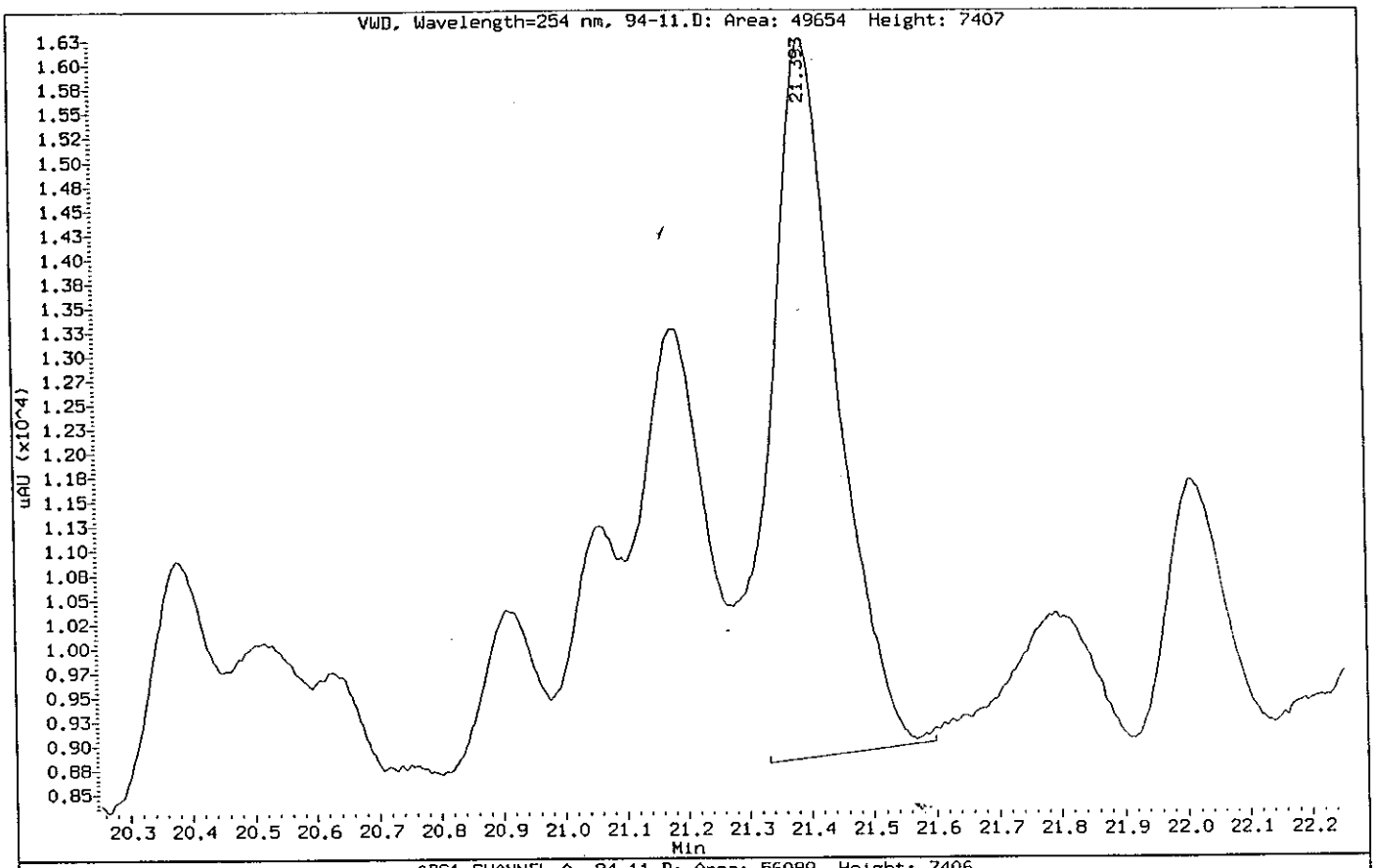
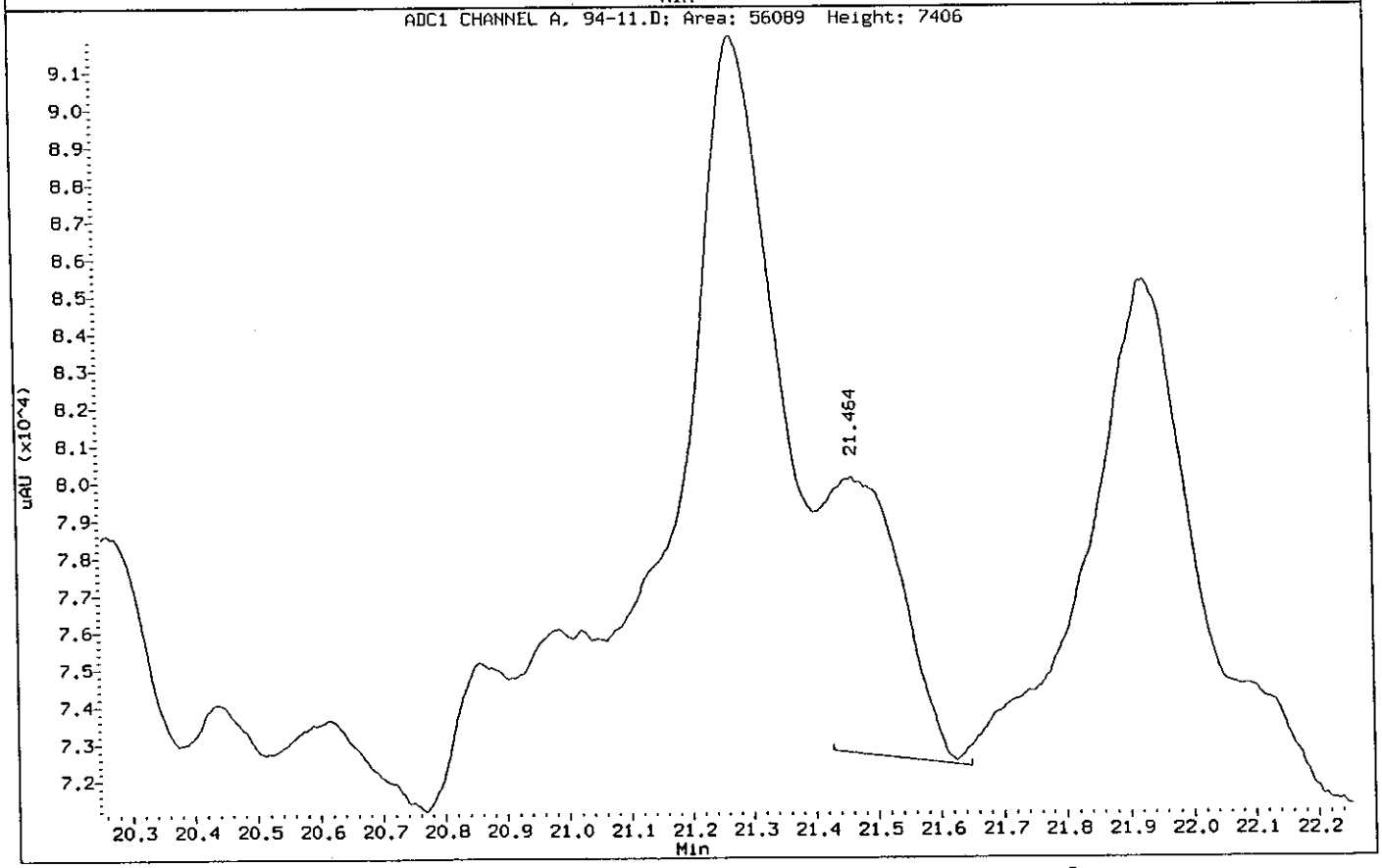
Injection Date: 28-OCT-2001 21:35
Instrument: slc02.i
Client Sample ID: 062B106S101801

Compound: Benzo(b)Fluoranthene
CAS Number: 205-99-2





TMD

PEL Laboratories

Data file : \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-14.D
Lab Smp Id: 211009414 Client Smp ID: 062B146S101801
Inj Date : 28-OCT-2001 23:19
Operator : rood Inst ID: slc02.i
Smp Info : 211009414
Misc Info :
Comment :
Method : \\SVHPLC\ee\chem\slc02.i\L21028R1.b\8310S.m
Meth Date : 02-Nov-2001 08:36 jdonnelly Quant Type: ISTD
Cal Date : 28-OCT-2001 20:26 Cal File: PT2UGML.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: navy50.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	32.700	Extracted weight
M	6.715	% Moisture
Vf	1.000	Final Volume

RT	EXP RT	REL RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO
* 1 Carbazole (ISTD)							CAS #: 86-74-8	
11.406	10.610	(1.000)	VWD1A	282267			80.00- 120.00	100.00(M)
11.494	10.610	(1.008)	ADC1A	2181413	10.0000		652.03- 978.05	772.82
7 Fluorene							CAS #: 86-73-7	
15.186	14.680	(1.331)	VWD1A	9941	0.35939	11.8	80.00- 120.00	100.00(aM)
15.214	14.680	(1.334)	ADC1A	2774	0.82795	27.1	9.06- 13.59	27.90
10 Fluoranthene							CAS #: 206-44-0	
17.473	17.066	(1.532)	VWD1A	103804	5.64348	185	80.00- 120.00	100.00(M)
17.523	17.066	(1.536)	ADC1A	70489			6.36- 9.54	67.91
11 Pyrene							CAS #: 129-00-0	
17.846	17.606	(1.565)	VWD1A	12597	0.89234	29.2	80.00- 120.00	100.00(aMH)

RT	EXP RT	REL RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO
11 Pyrene (continued)								
17.929	17.606	(1.572)	ADC1A	27781	0.14732	4.8	930.64-1395.96	220.54
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.806	18.593	(1.649)	VWD1A	180086	11.0118	361	80.00- 120.00	100.00(M)
18.899	18.593	(1.657)	ADC1A	7544390	16.8542	552	2246.35-3369.53	4189.33
14 Chrysene						CAS #: 218-01-9		
19.923	19.820	(1.747)	VWD1A	346627	5.62245	184	80.00- 120.00	100.00(M)
20.008	19.820	(1.754)	ADC1A	854467	5.81949	191	190.14- 285.21	246.51
15 Benzo(b)Fluoranthene						CAS #: 205-99-2		
21.380	21.253	(1.874)	VWD1A	14434	0.30344	9.9	80.00- 120.00	100.00(aM)
21.471	21.253	(1.882)	ADC1A	71969	5.77853	189	20.85- 31.28	498.61
16 Benzo(k)Fluoranthene						CAS #: 207-08-9		
22.006	21.883	(1.929)	VWD1A	18601	0.51159	16.8	80.00- 120.00	100.00(aM)
22.141	21.883	(1.941)	ADC1A	14870	0.62560	20.5	52.76- 79.15	79.94
17 Benzo(a)pyrene						CAS #: 50-32-8		
22.750	22.476	(1.994)	VWD1A	7588	0.17899	5.9	80.00- 120.00	100.00(aMH)
22.889	22.476	(2.007)	ADC1A	23416	0.33063	10.8	138.13- 207.19	308.59
20 Indeno(123cd)Pyrene						CAS #: 193-39-5		
24.763	24.703	(2.171)	VWD1A	11399	0.28198	9.2	80.00- 120.00	100.00(aM)
24.778	24.703	(2.172)	ADC1A	14886			0.00- 0.00	130.59

QC Flag Legend

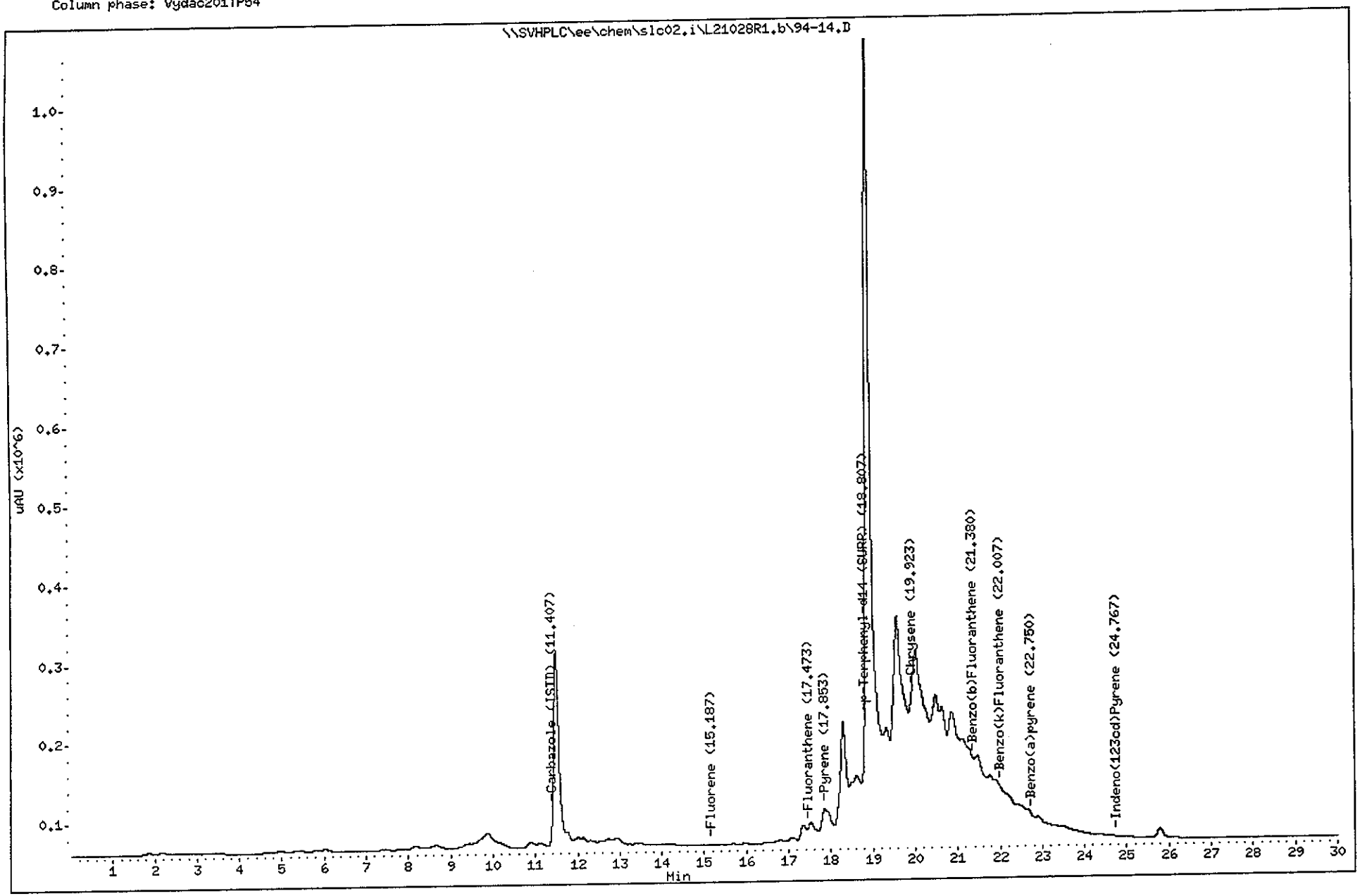
a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-14.D
Date : 28-OCT-2001 23:19
Client ID: 062B146S101801
Sample Info: 211009414

Instrument: slc02.i

Operator: rood
Column diameter: 4.60

Column phase: Vydac201TP54



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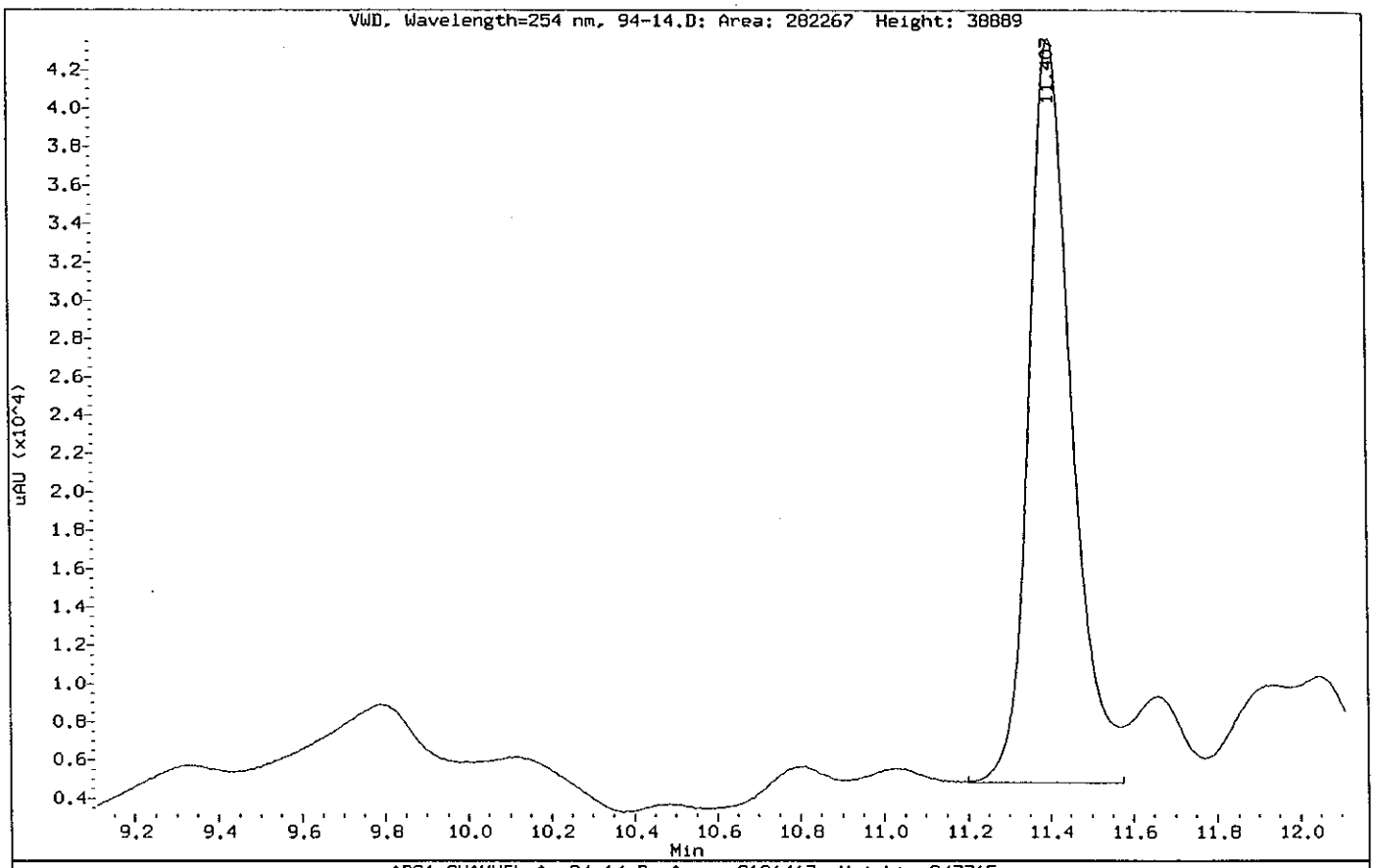
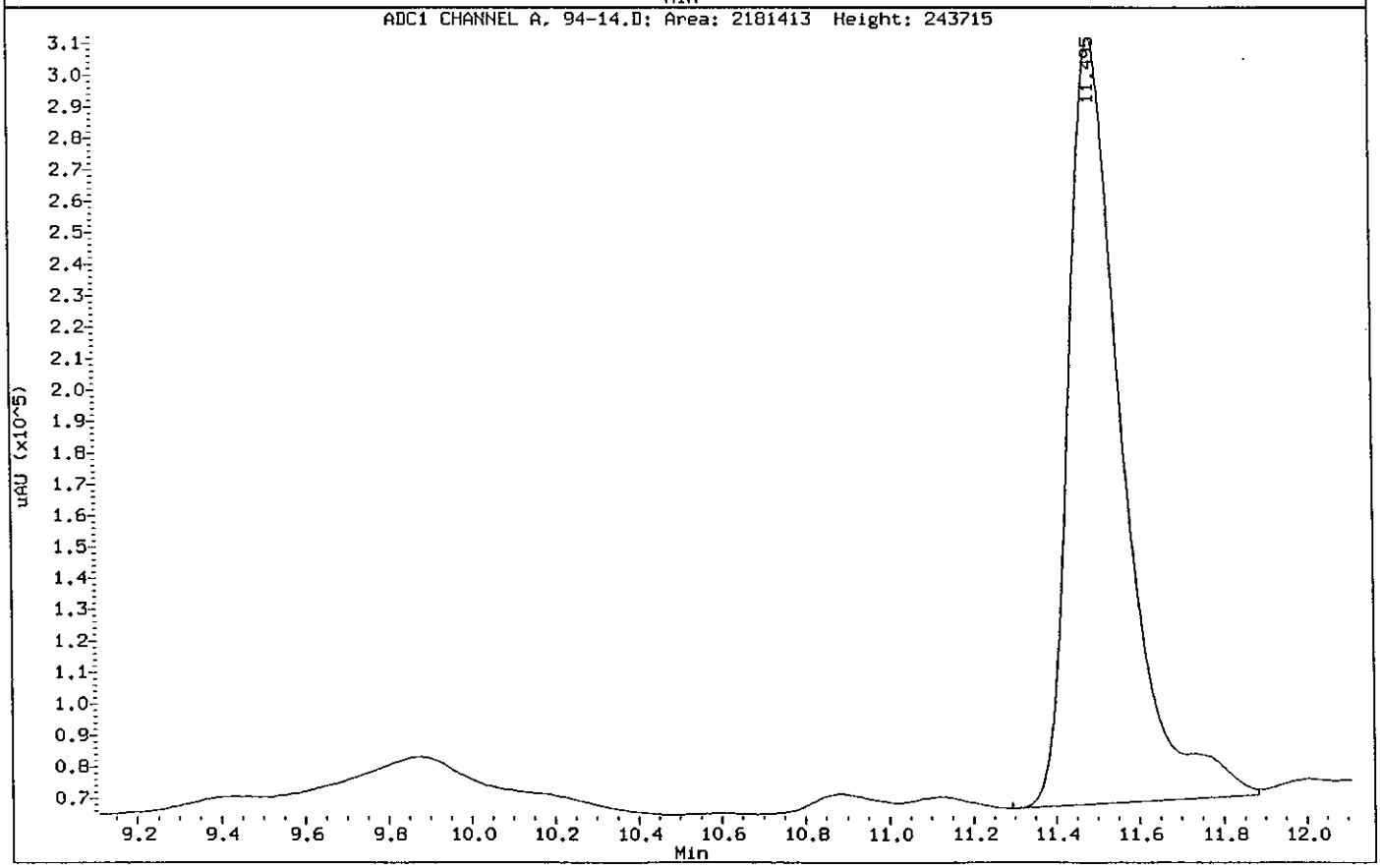
Injection Date: 28-OCT-2001 23:19
Instrument: slc02.i
Client Sample ID: 062B146S101801

Compound: Carbazole (ISTD)
CAS Number: 86-74-8





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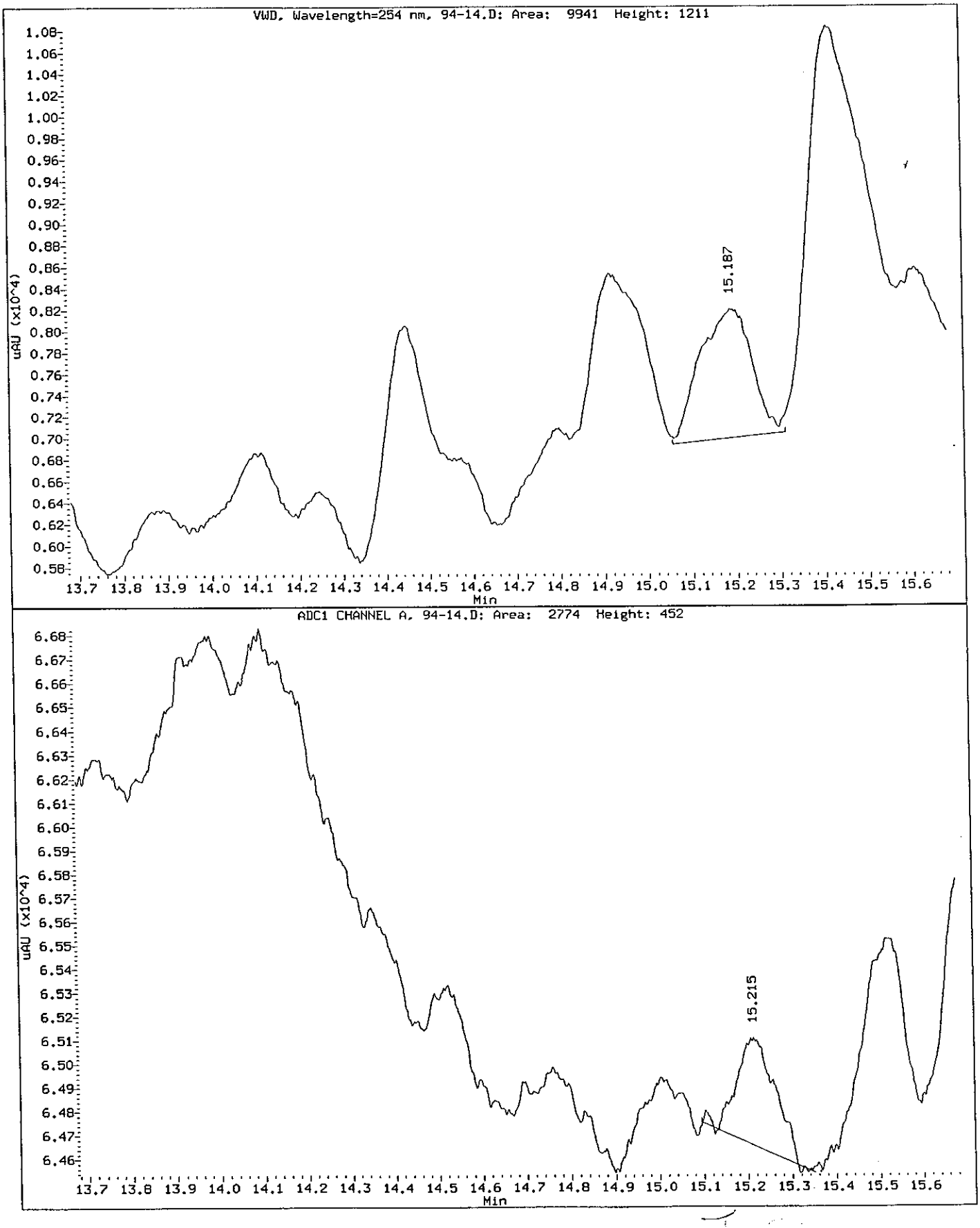
Injection Date: 28-OCT-2001 23:19
Instrument: slc02.i
Client Sample ID: 062B146S101801

Compound: Fluorene
CAS Number: 86-73-7



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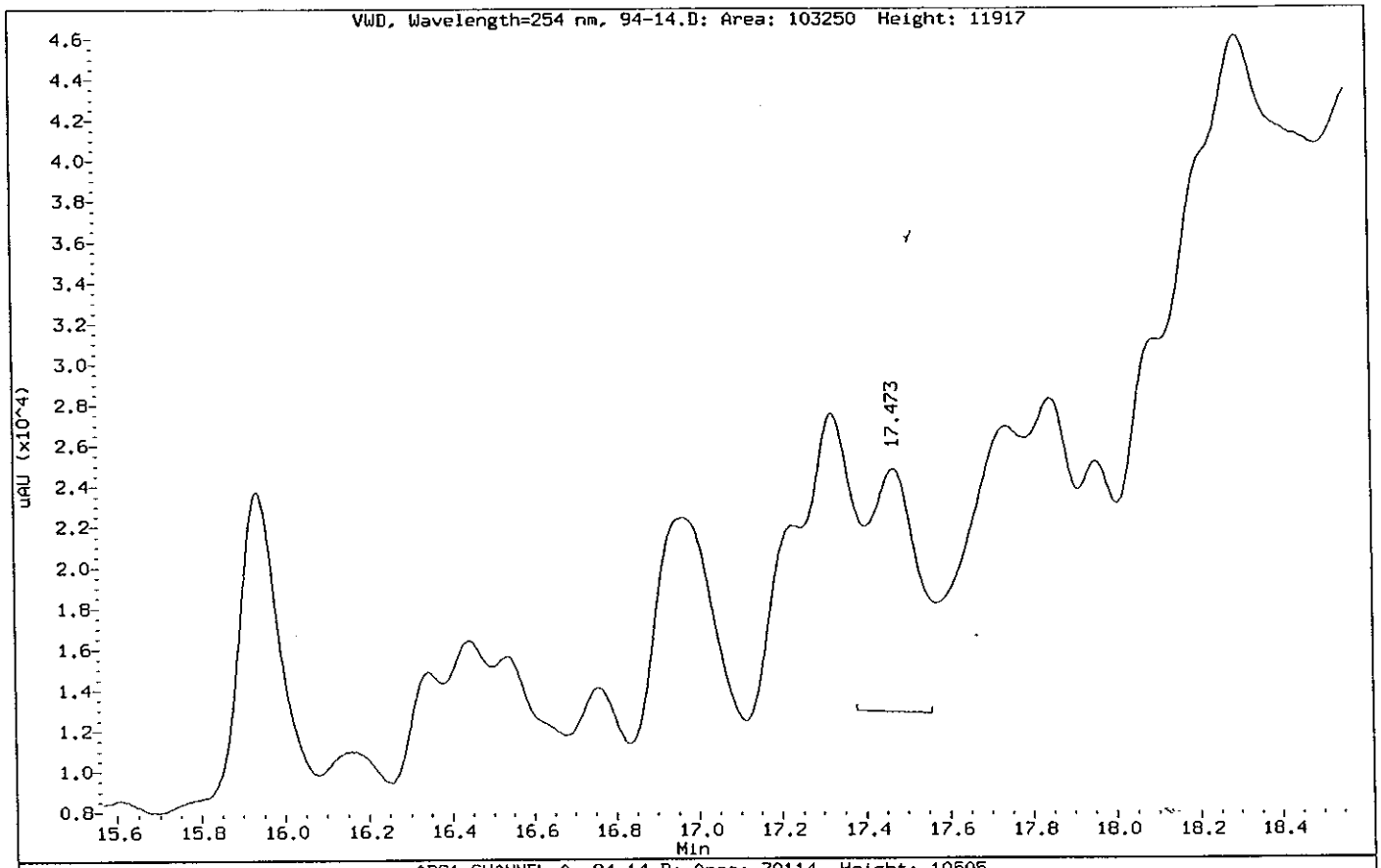
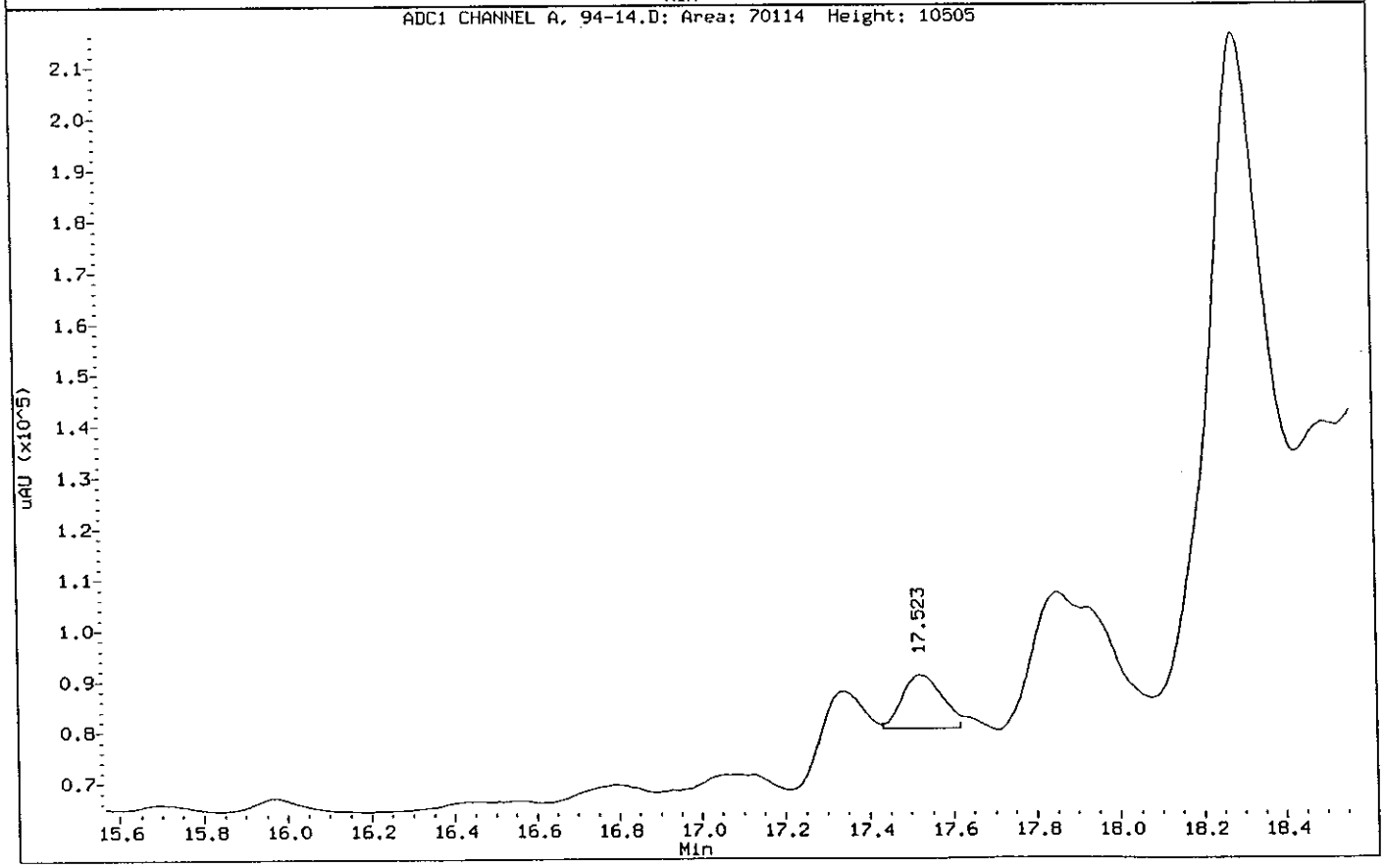
Injection Date: 28-OCT-2001 23:19
Instrument: slc02.i
Client Sample ID: 062B146S101801

Compound: Fluoranthene
CAS Number: 206-44-0





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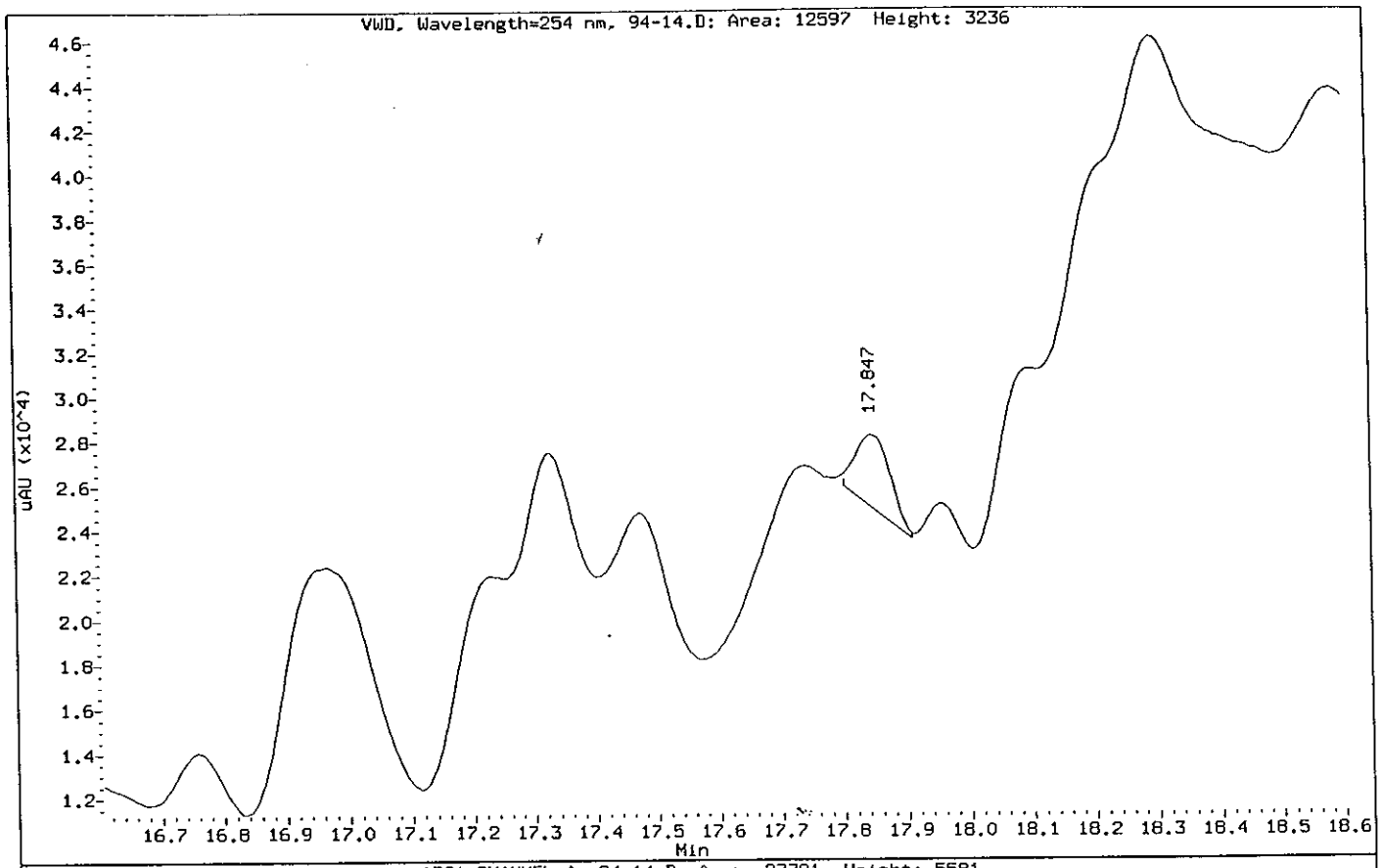
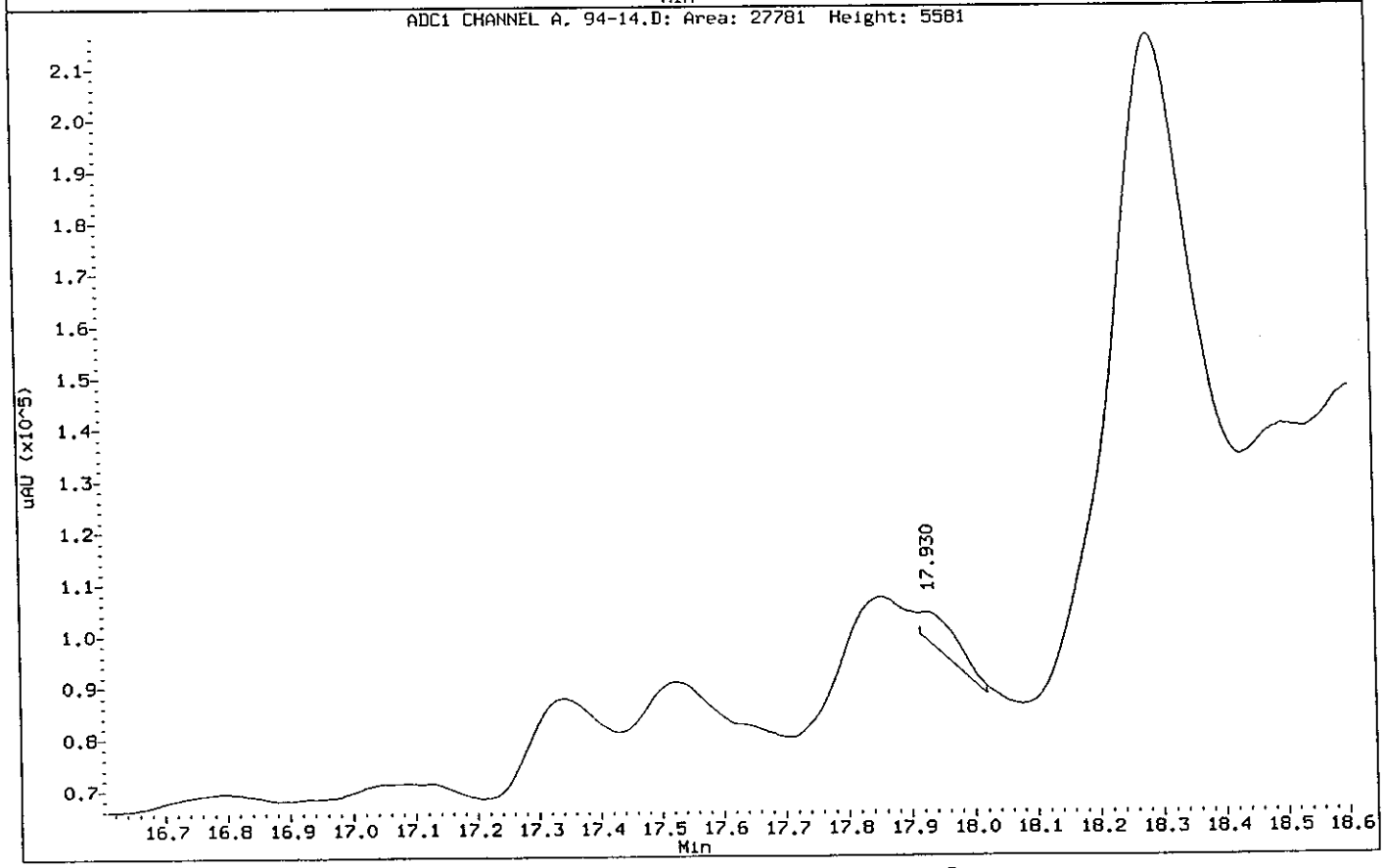
Injection Date: 28-OCT-2001 23:19
Instrument: slc02.i
Client Sample ID: 062B146S101801

Compound: Pyrene
CAS Number: 129-00-0

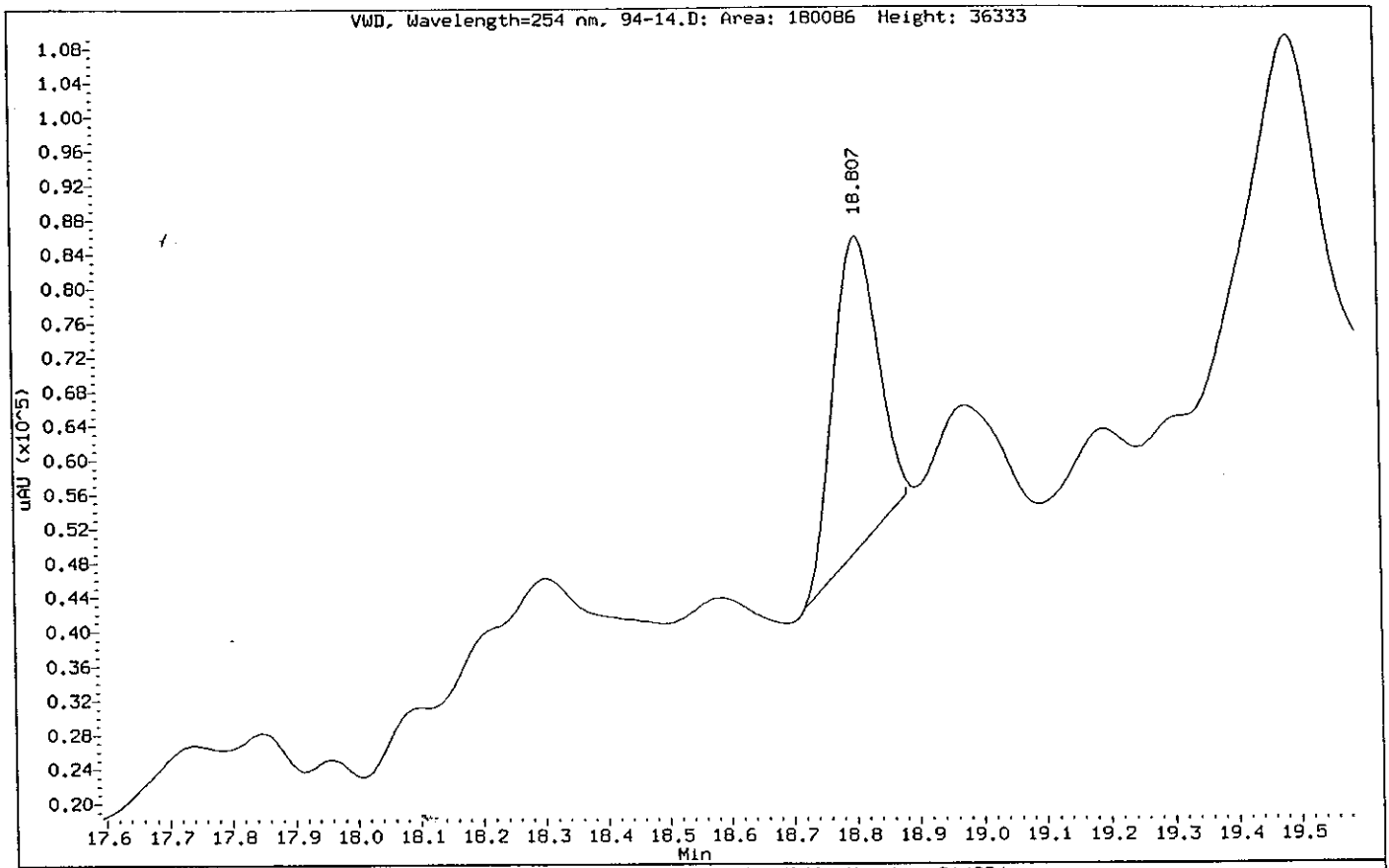


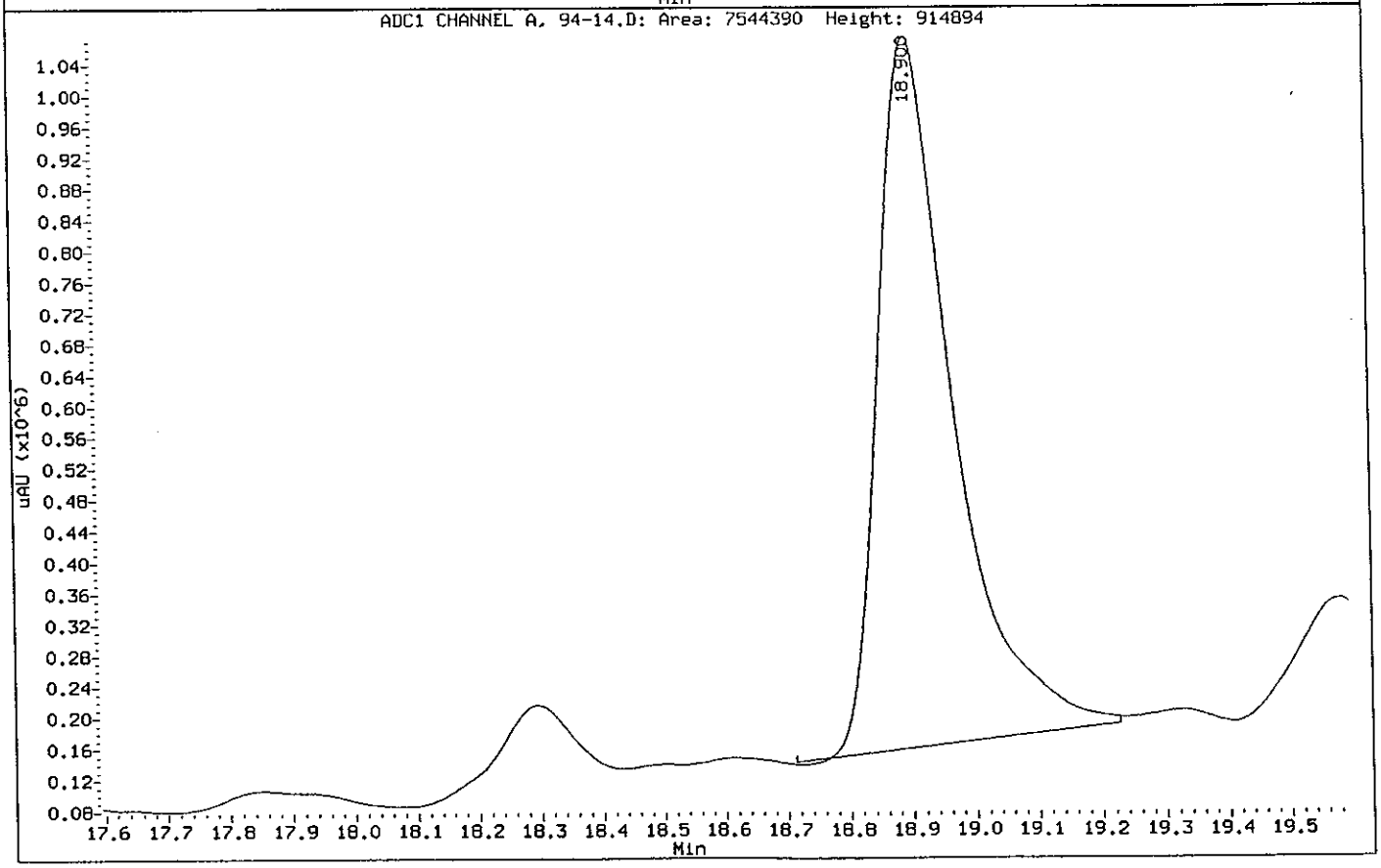


JMD

Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-14.D
Injection Date: 28-OCT-2001 23:19
Instrument: slc02.i
Client Sample ID: 062B146S101801

Compound: p-Terphenyl-d14 (SURR)
CAS Number: 1718-51-0

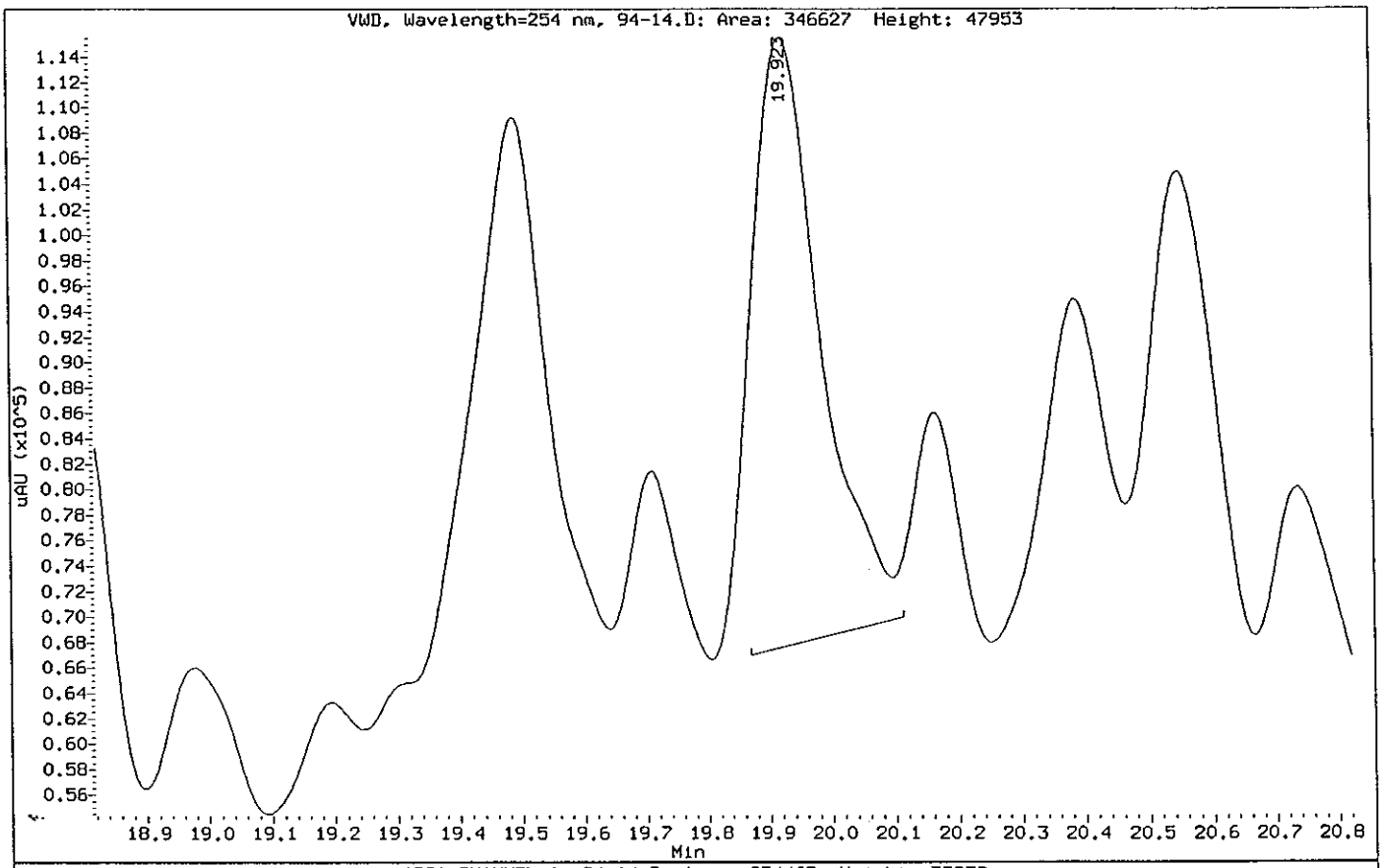


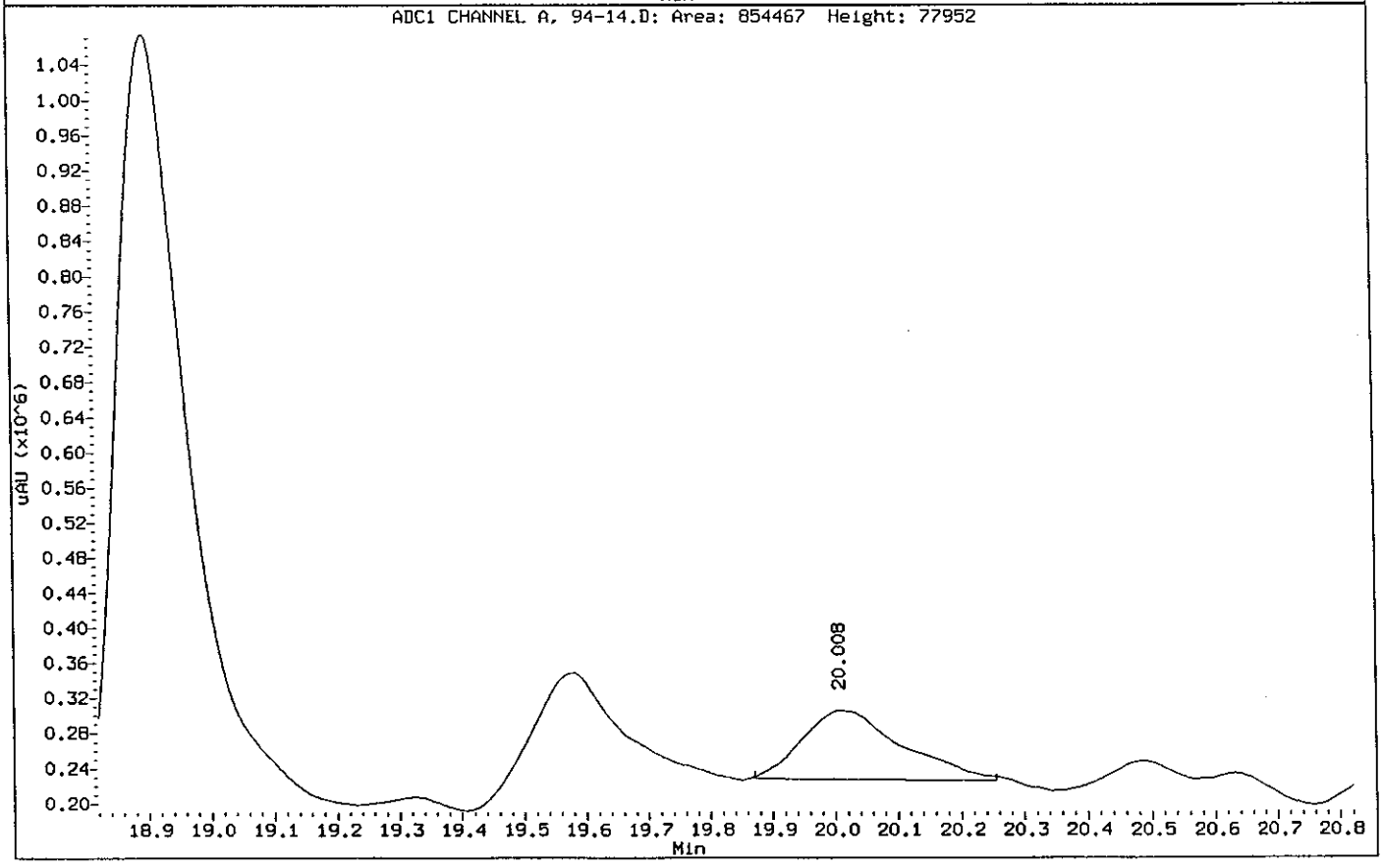


TMD

Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-14.D
Injection Date: 28-OCT-2001 23:19
Instrument: slc02.i
Client Sample ID: 062B146S101801

Compound: Chrysene
CAS Number: 218-01-9

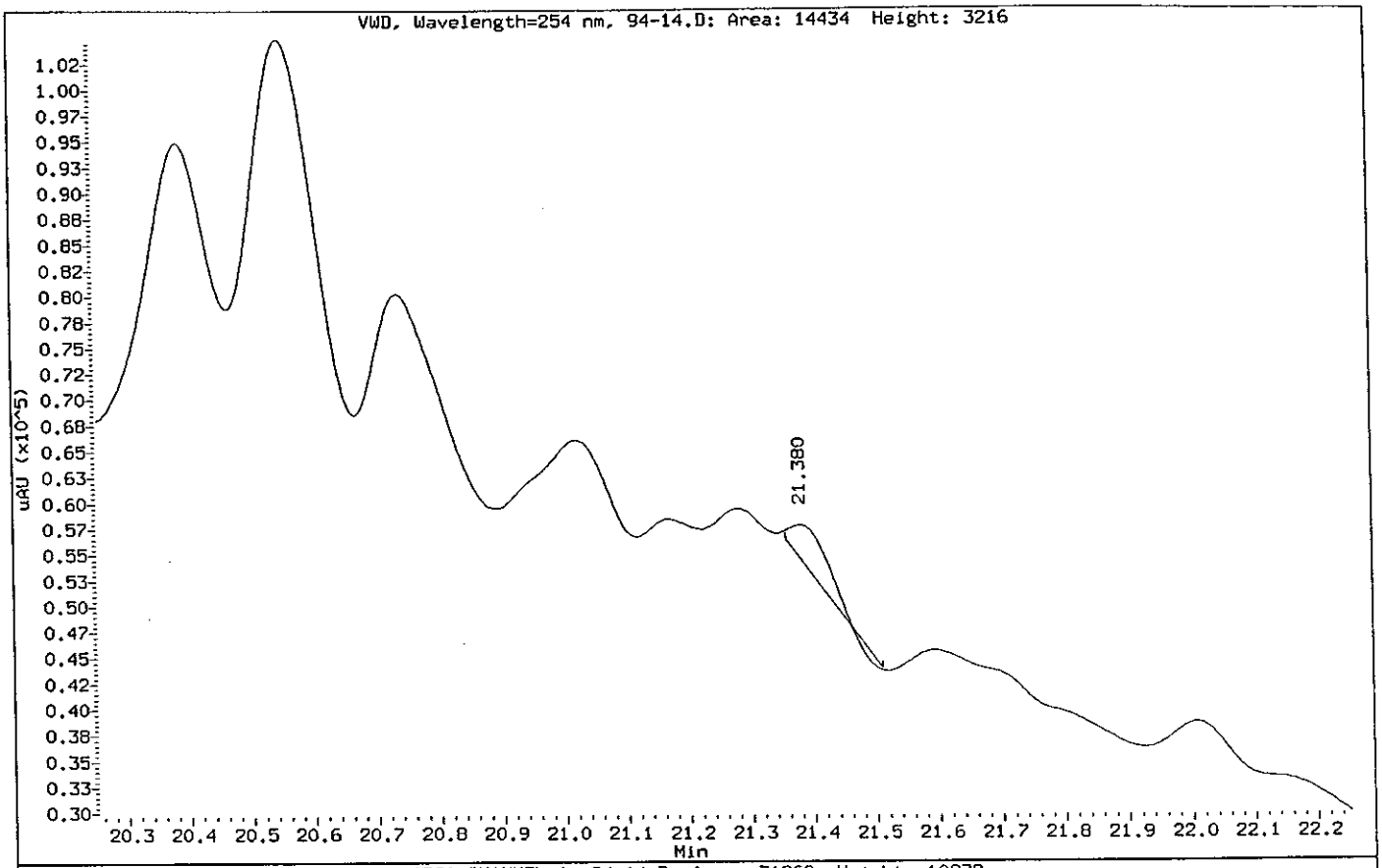


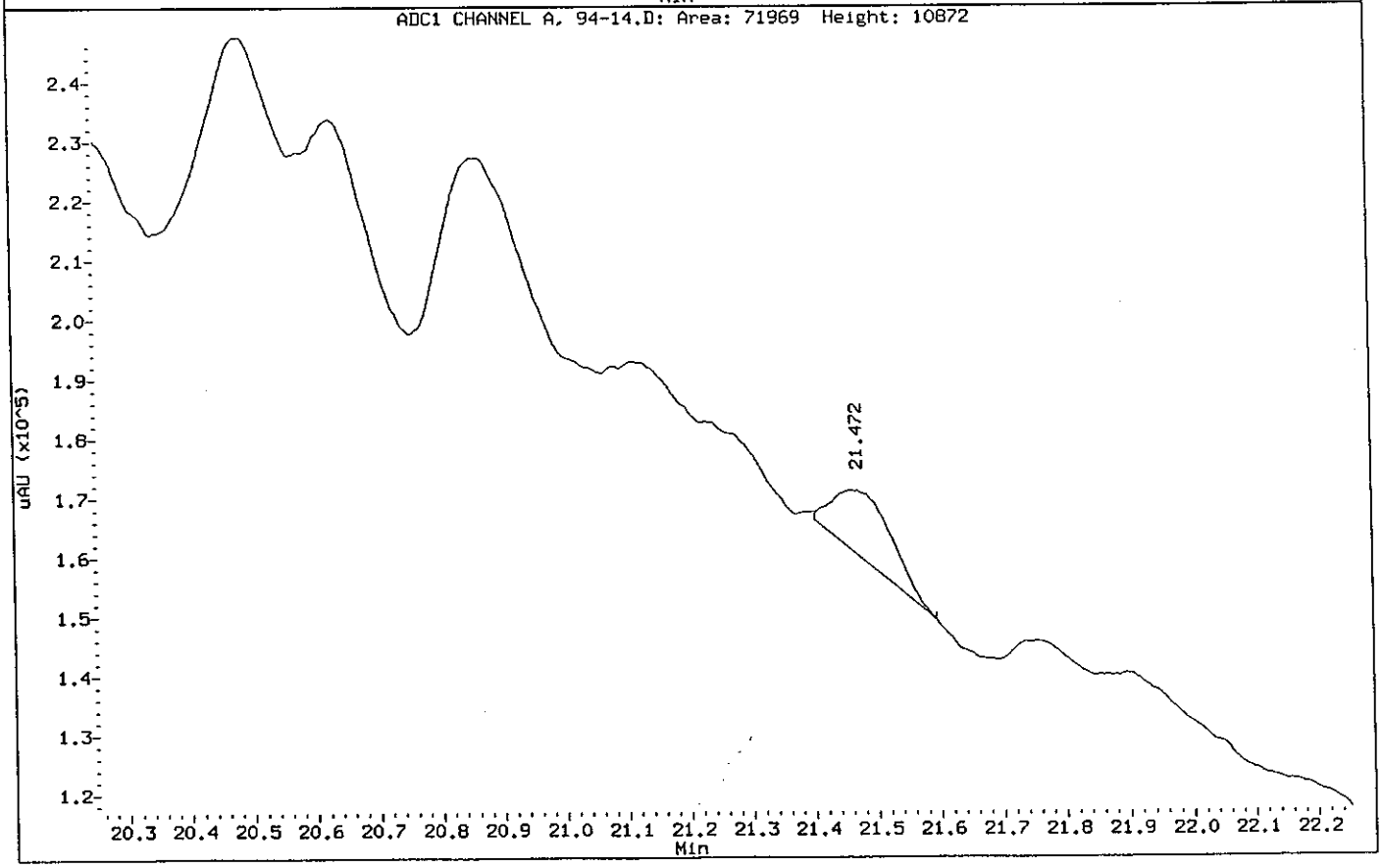


FWD

Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-14.D
Injection Date: 28-OCT-2001 23:19
Instrument: slc02.i
Client Sample ID: 062B146S101B01

Compound: Benzo(b)Fluoranthene
CAS Number: 205-99-2

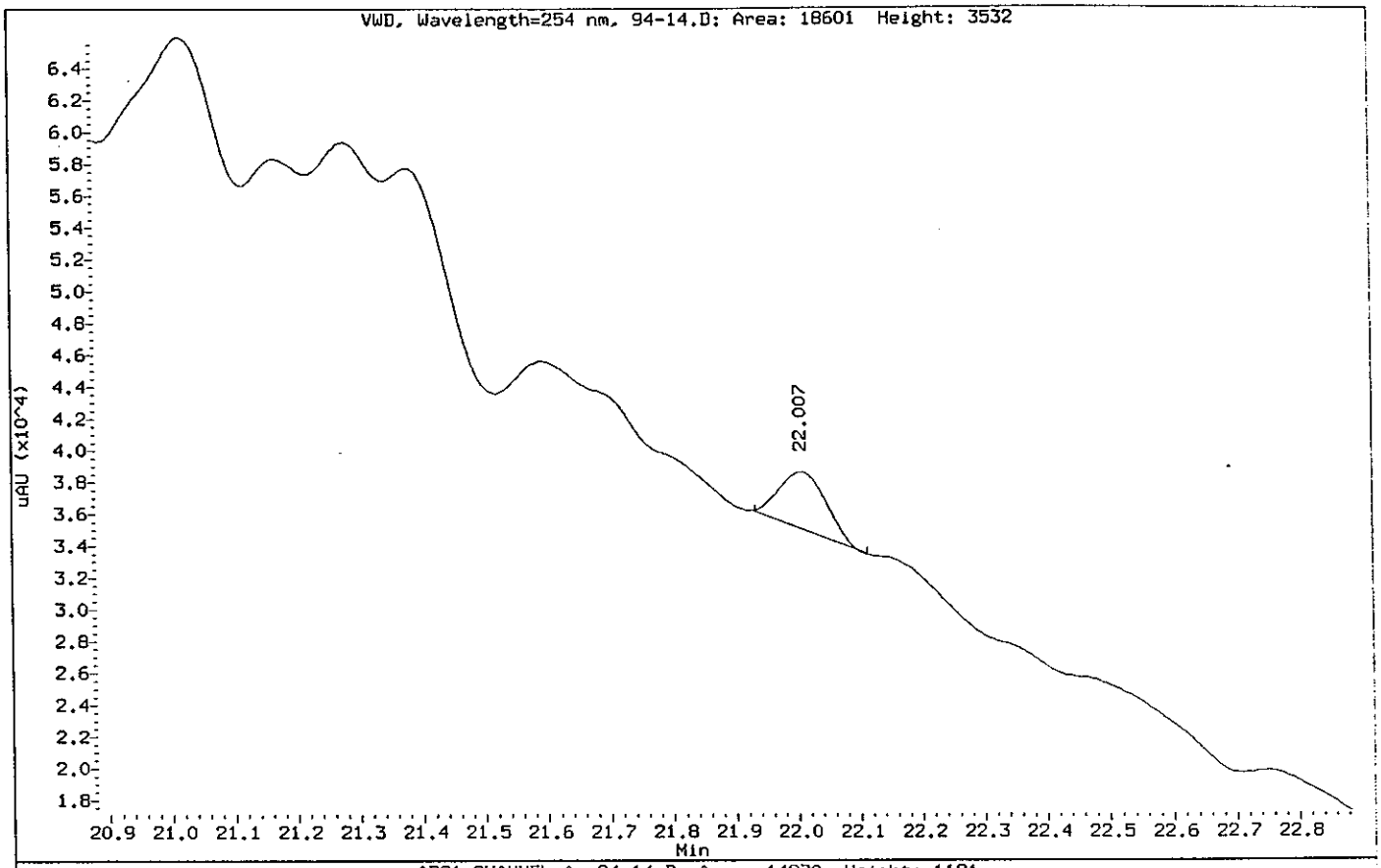


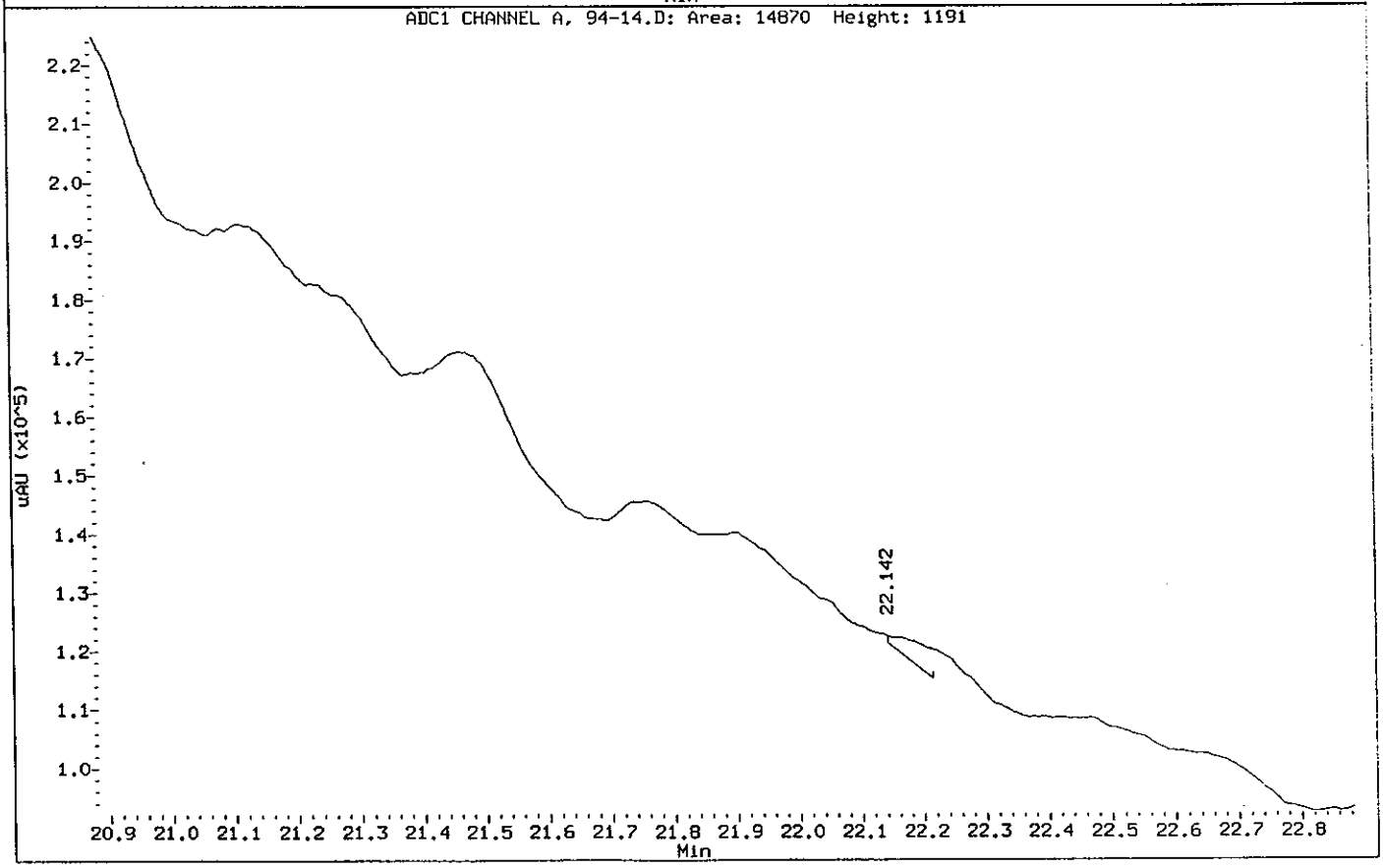


TWD

Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-14.D
Injection Date: 28-OCT-2001 23:19
Instrument: slc02.i
Client Sample ID: 062B1465101801

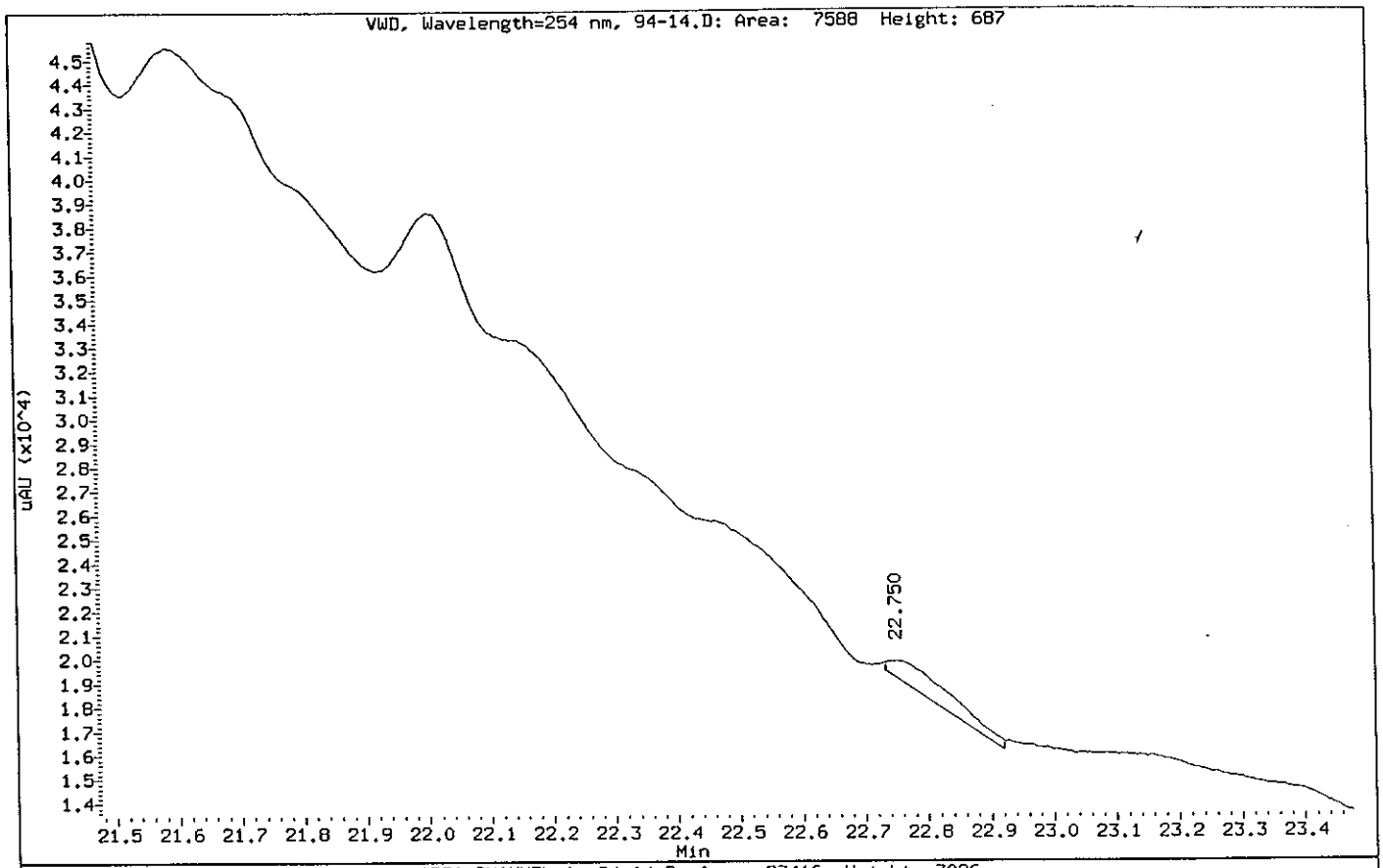
Compound: Benzo(k)Fluoranthene
CAS Number: 207-08-9

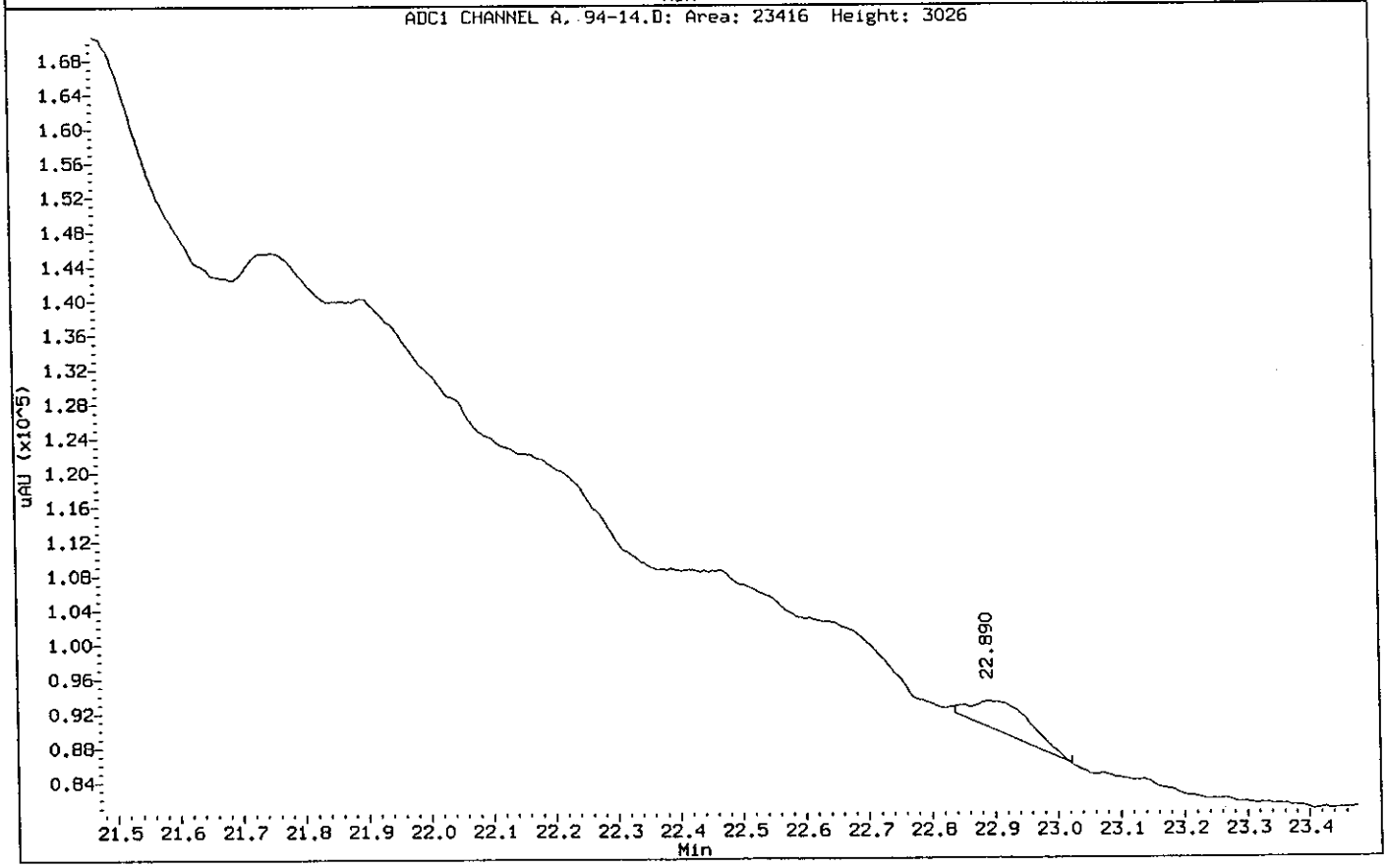




Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-14.D
Injection Date: 28-OCT-2001 23:19
Instrument: slc02.i
Client Sample ID: 062B1465101801

Compound: Benzo(a)pyrene
CAS Number: 50-32-8

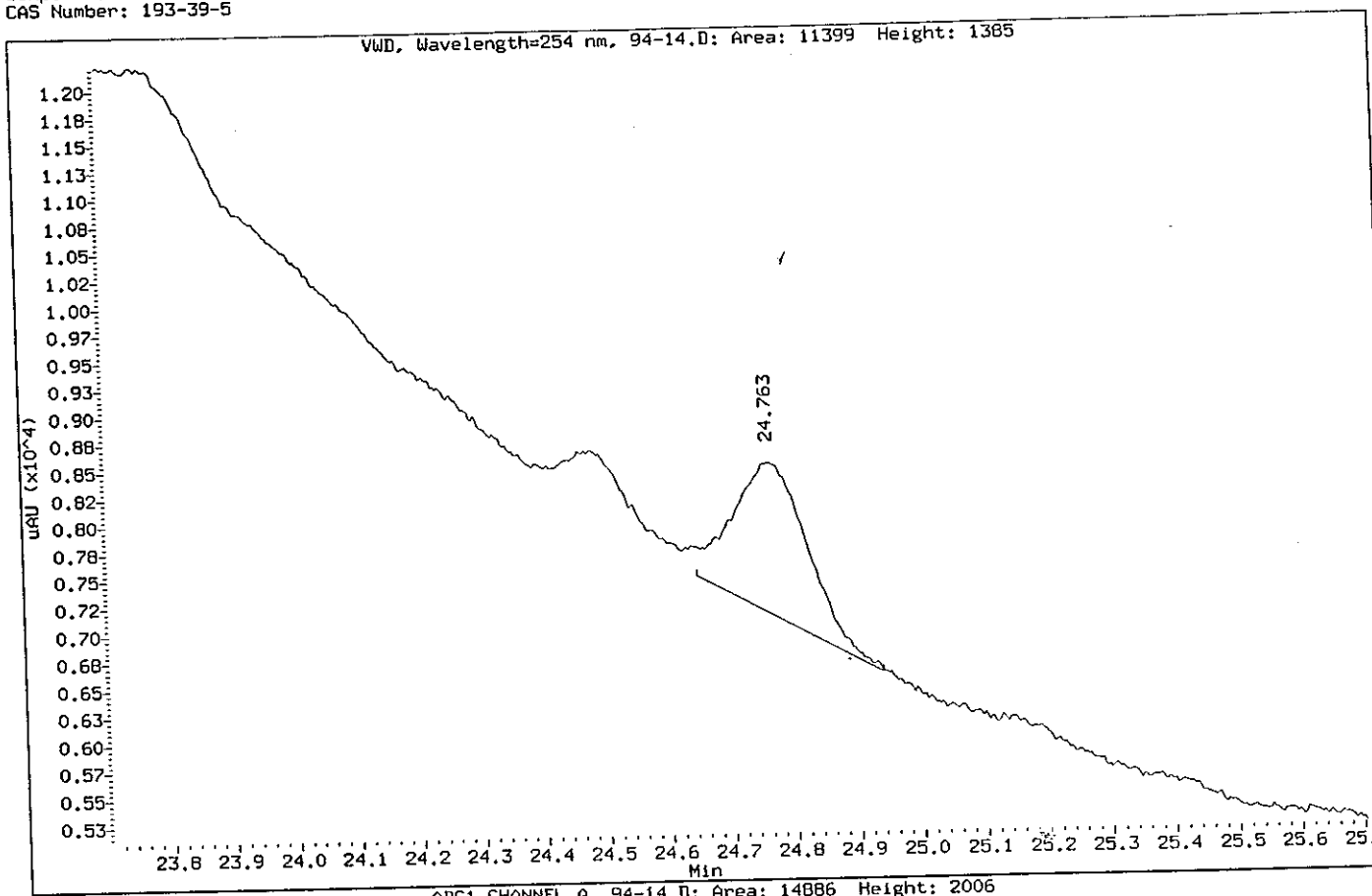


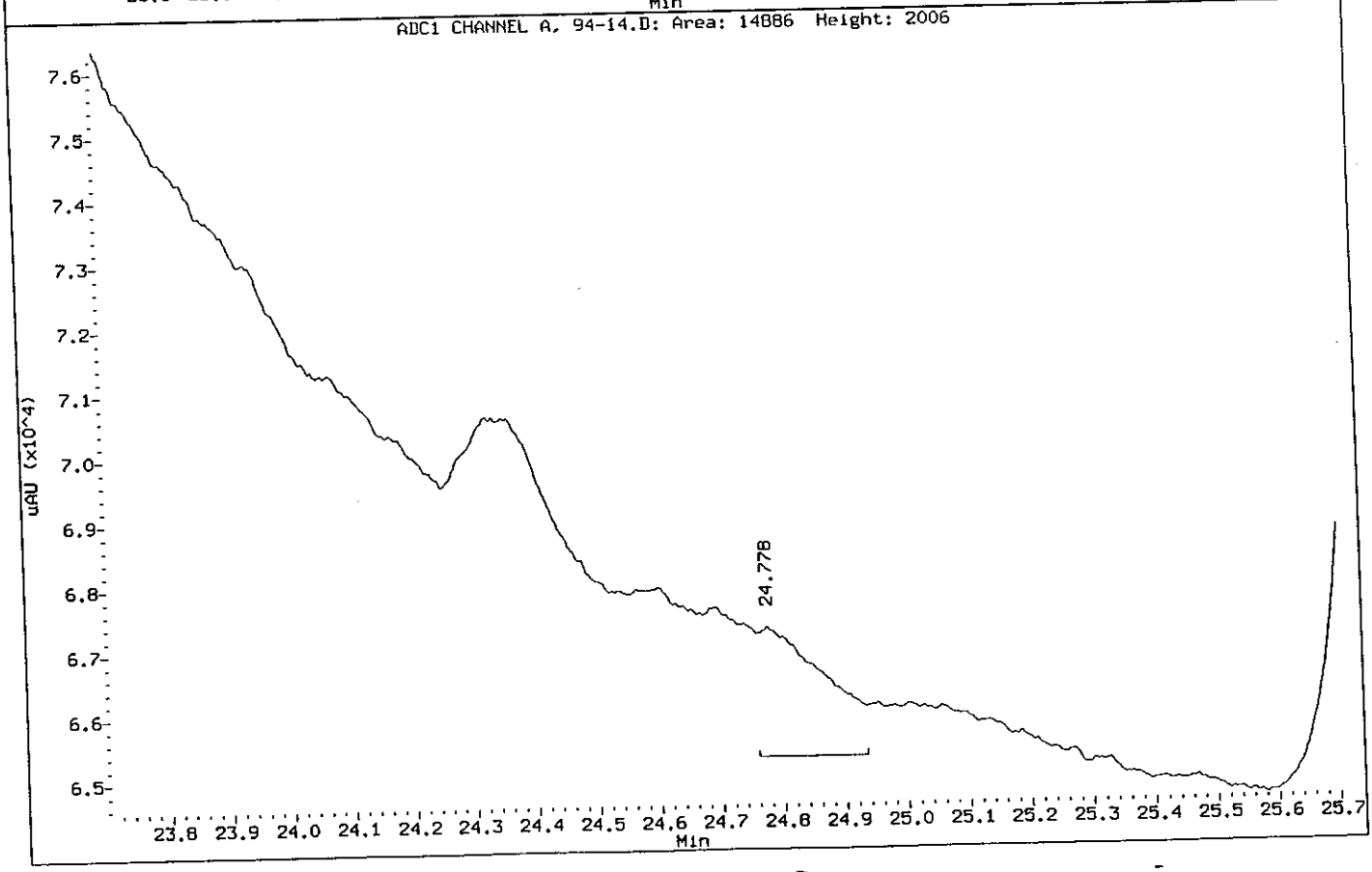


JMD

Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-14.D
Injection Date: 28-OCT-2001 23:19
Instrument: slc02.i
Client Sample ID: 062B146S101801

Compound: Indeno(123cd)Pyrene
CAS Number: 193-39-5





JMD

PEL Laboratories

Data file : \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-15.D
Lab Smp Id: 211009415 Client Smp ID: 062B158S101801
Inj Date : 28-OCT-2001 23:54
Operator : rood Inst ID: slc02.i
Smp Info : 211009415
Misc Info :
Comment :
Method : \\SVHPLC\ee\chem\slc02.i\L21028R1.b\8310S.m
Meth Date : 02-Nov-2001 08:36 jdonnelly Quant Type: ISTD
Cal Date : 28-OCT-2001 20:26 Cal File: PT2UGML.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: navy50.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	32.900	Extracted weight
M	15.798	% Moisture
Vf	1.000	Final Volume

RT	EXP RT	REL RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	CONCENTRATIONS FINAL (ug/kg)	TARGET RANGE	RATIO
* 1 Carbazole (ISTD)						CAS #: 86-74-8		
11.403	10.610	(1.000)	VWD1A	253534			80.00- 120.00	100.00(M)
11.493	10.610	(1.008)	ADC1A	2034652	10.0000		652.03- 978.05	802.52
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.800	18.593	(1.649)	VWD1A	256581	16.8209	607	80.00- 120.00	100.00
18.893	18.593	(1.657)	ADC1A	7042962	16.8689	609	2246.35-3369.53	2744.93

QC Flag Legend

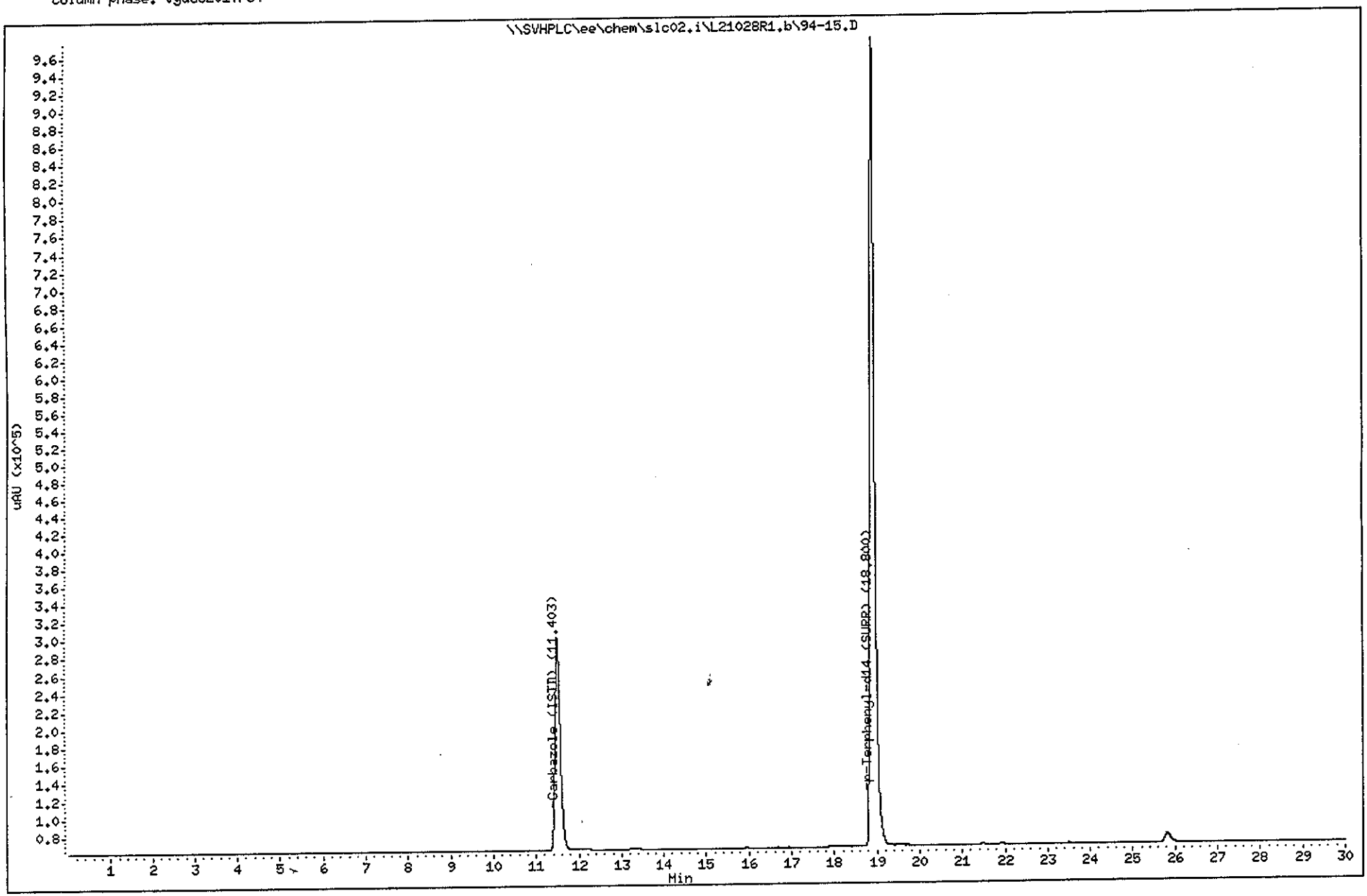
M - Compound response manually integrated.

Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-15.D
Date : 28-OCT-2001 23:54
Client ID: 062B158S101801
Sample Info: 211009415

Instrument: slc02.i

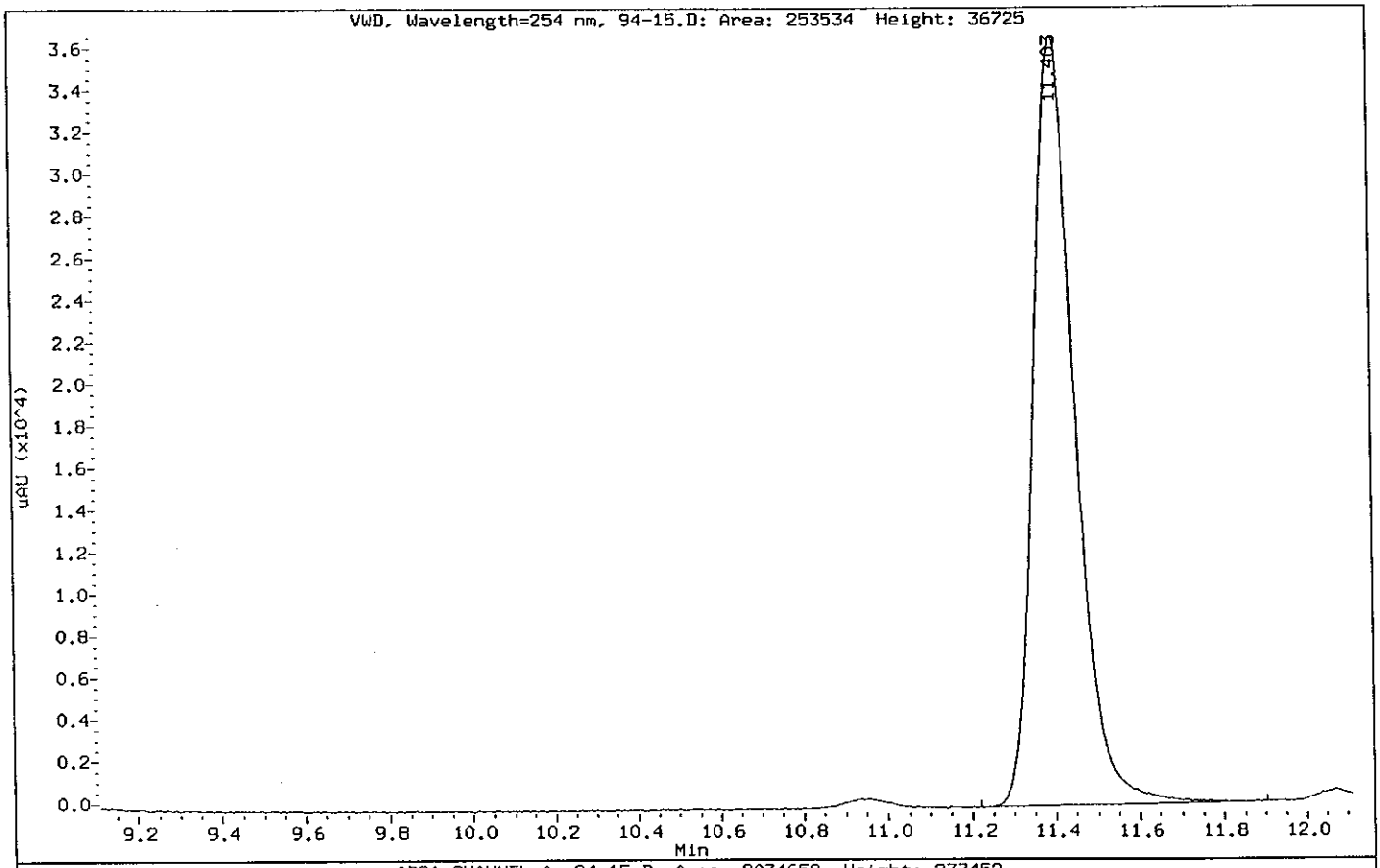
Operator: rood
Column diameter: 4.60

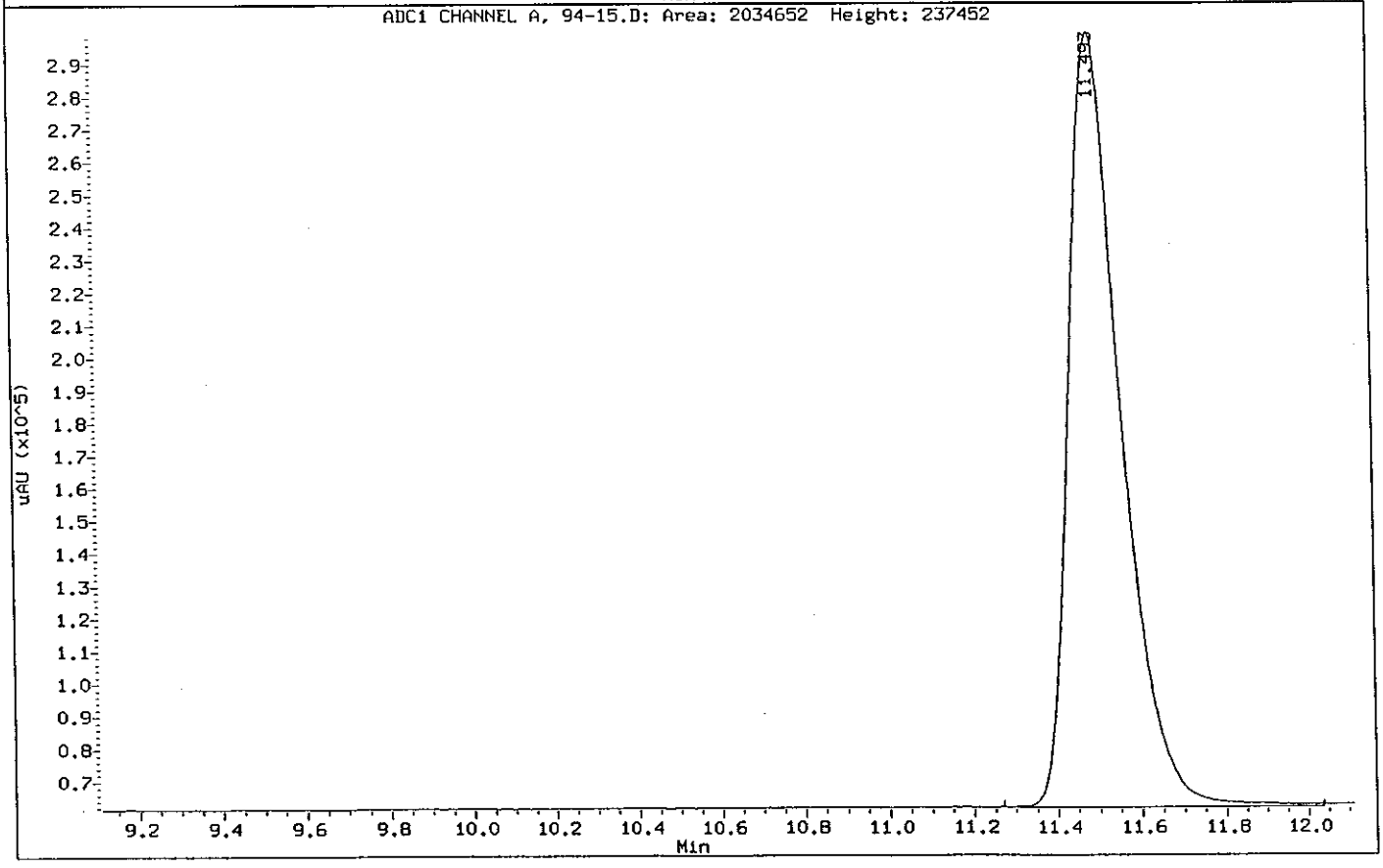
Column phase: Vydac201TP54



Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-15.D
Injection Date: 28-OCT-2001 23:54
Instrument: slc02.i
Client Sample ID: 062B1585101801

Compound: Carbazole (ISTD)
CAS Number: 86-74-8





JMP

PEL Laboratories

Data file : \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-17.D
Lab Smp Id: 211009417 Client Smp ID: 062B189S101801
Inj Date : 29-OCT-2001 01:25
Operator : rood Inst ID: slc02.i
Smp Info : 211009417
Misc Info :
Comment :
Method : \\SVHPLC\ee\chem\slc02.i\L21028R1.b\8310S.m
Meth Date : 02-Nov-2001 08:36 jdonnelly Quant Type: ISTD
Cal Date : 28-OCT-2001 20:26 Cal File: PT2UGML.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: navy50.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	32.700	Extracted weight
M	11.457	% Moisture
Vf	1.000	Final Volume

RT	EXP RT	REL RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO
* 1 Carbazole (ISTD)						CAS #: 86-74-8		
11.390	10.610	(1.000)	VWD1A	248289			80.00- 120.00	100.00(M)
11.481	10.610	(1.008)	ADC1A	2011764	10.0000		652.03- 978.05	810.25
5 2-Methyl naphthalene						CAS #: 91-57-6		
14.406	13.973	(1.265)	VWD1A	1776	0.36424	12.6	80.00- 120.00	100.00(aM)
14.494	13.973	(1.273)	ADC1A	3672	0.34066	11.8	191.55- 287.32	206.76
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.796	18.593	(1.650)	VWD1A	235134	15.5903	538	80.00- 120.00	100.00(M)
18.889	18.593	(1.658)	ADC1A	6616472	16.0277	554	2246.35-3369.53	2813.92

QC Flag Legend

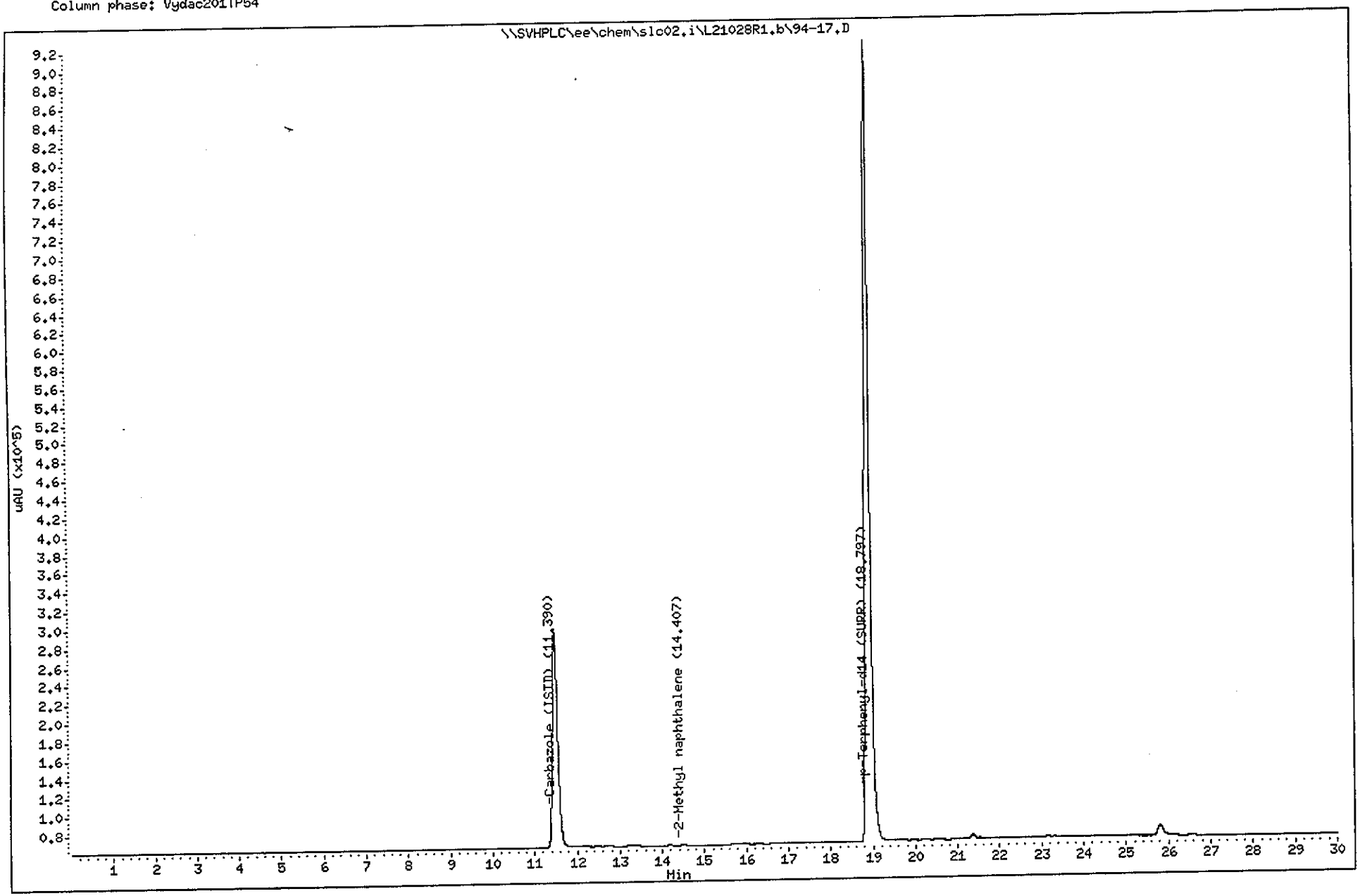
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-17.D
Date : 29-OCT-2001 01:25
Client ID: 062B189S101801
Sample Info: 211009417

Instrument: slc02.i

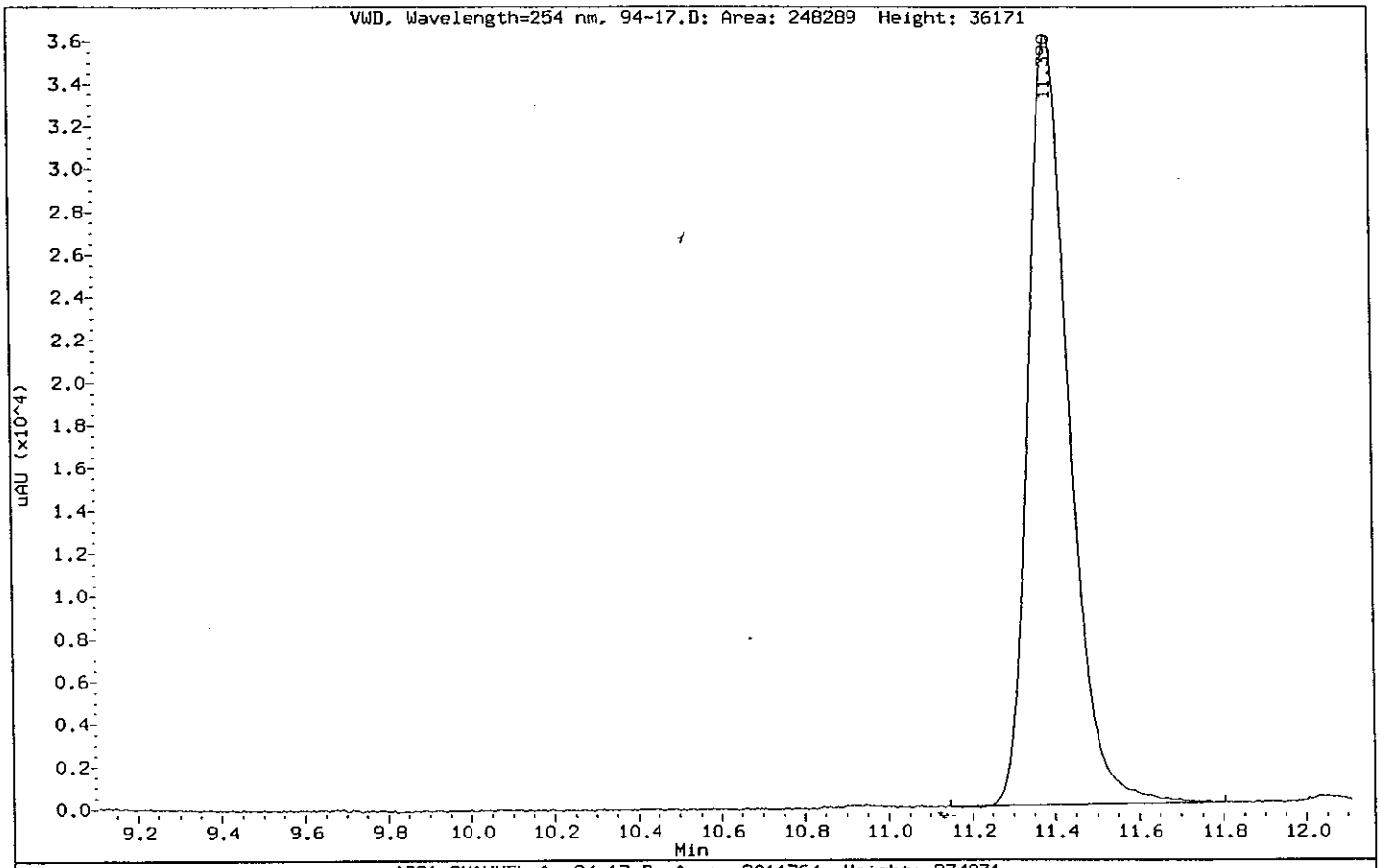
Operator: rood
Column diameter: 4.60

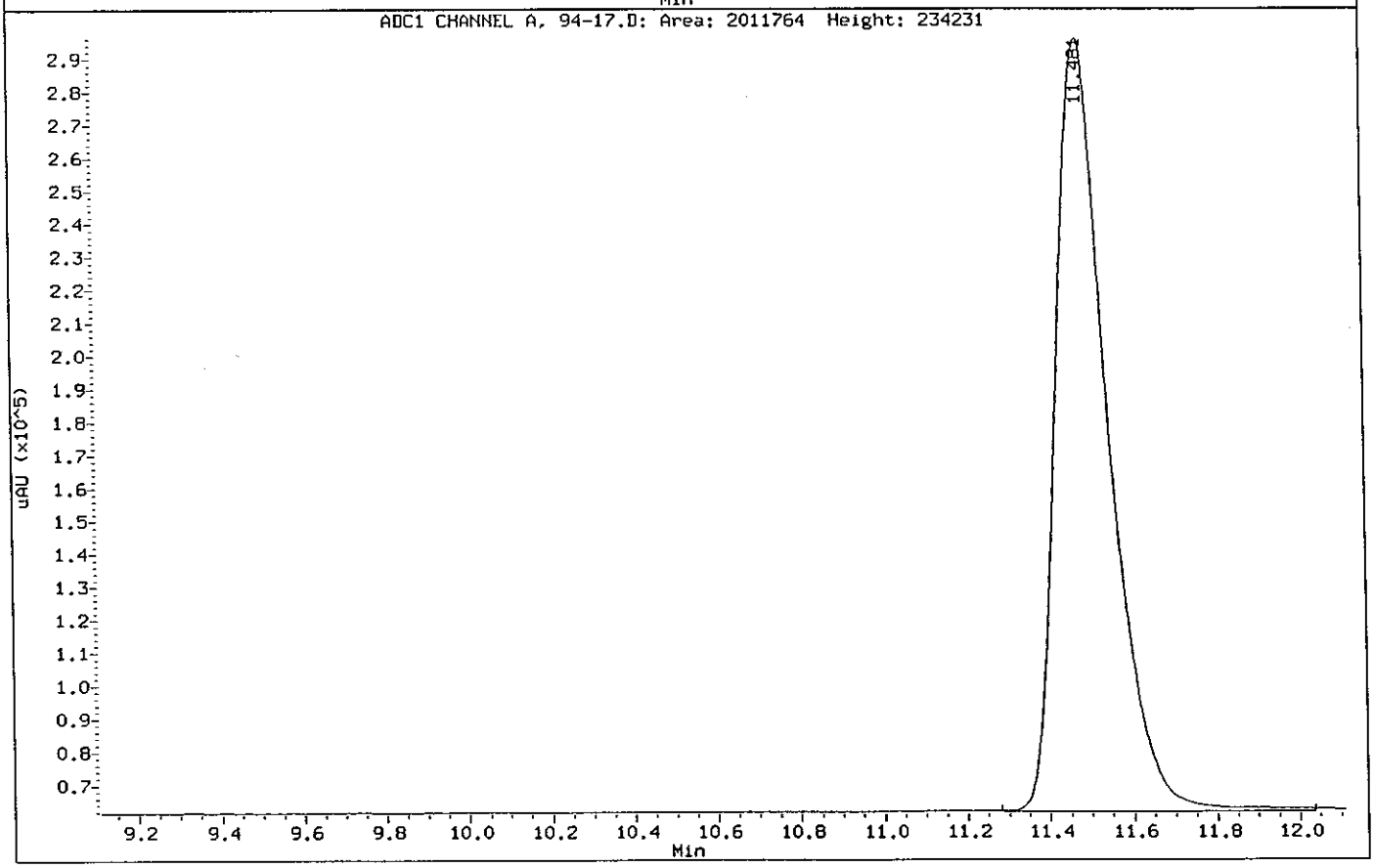
Column phase: Vydac201TP54



Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-17.D
Injection Date: 29-OCT-2001 01:25
Instrument: slc02.i
Client Sample ID: 062B189S101801

Compound: Carbazole (ISTD)
CAS Number: 86-74-8

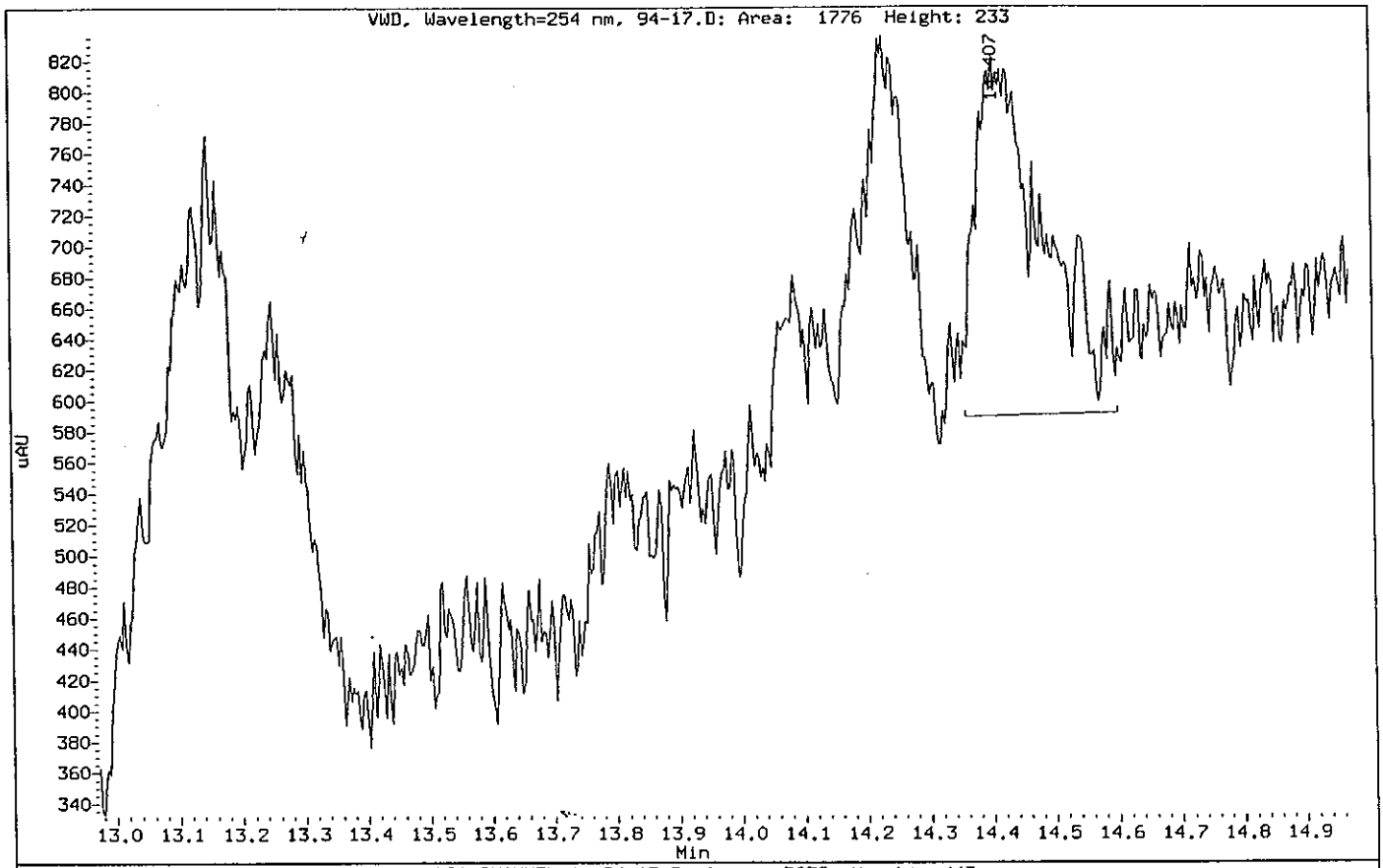


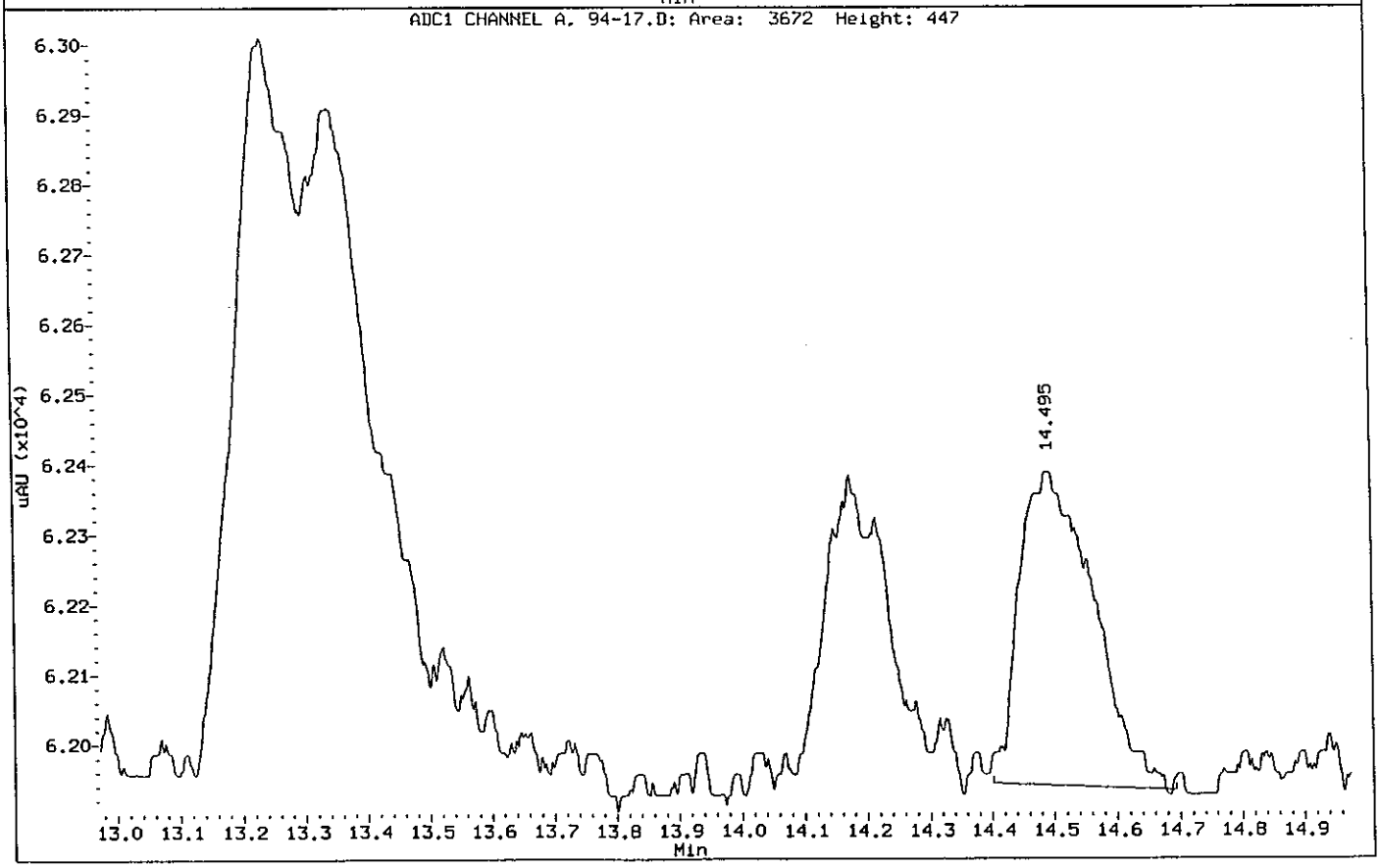


TMD

Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-17.D
Injection Date: 29-OCT-2001 01:25
Instrument: slc02.i
Client Sample ID: 062B1895101801

Compound: 2-Methyl naphthalene
CAS Number: 91-57-6

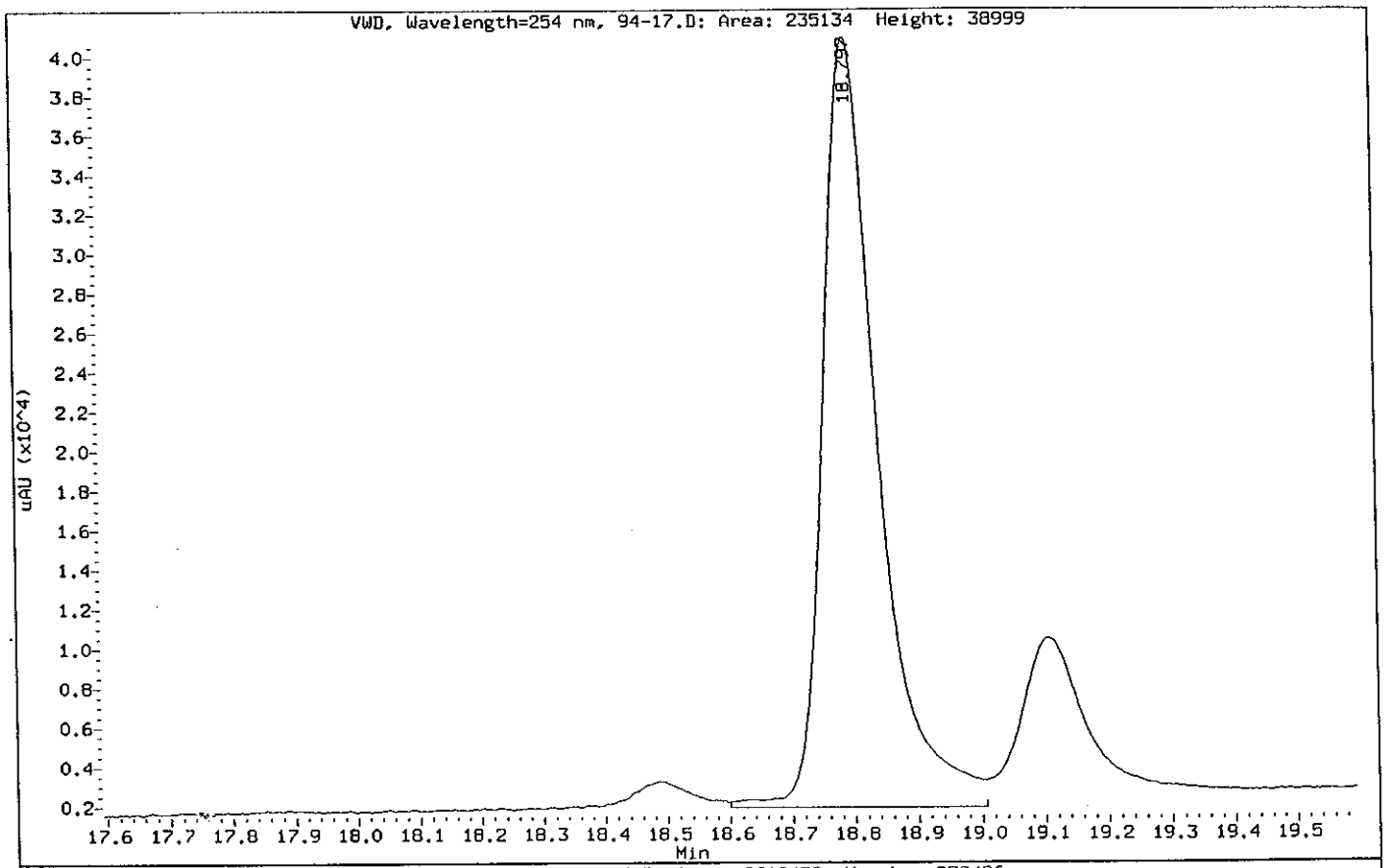


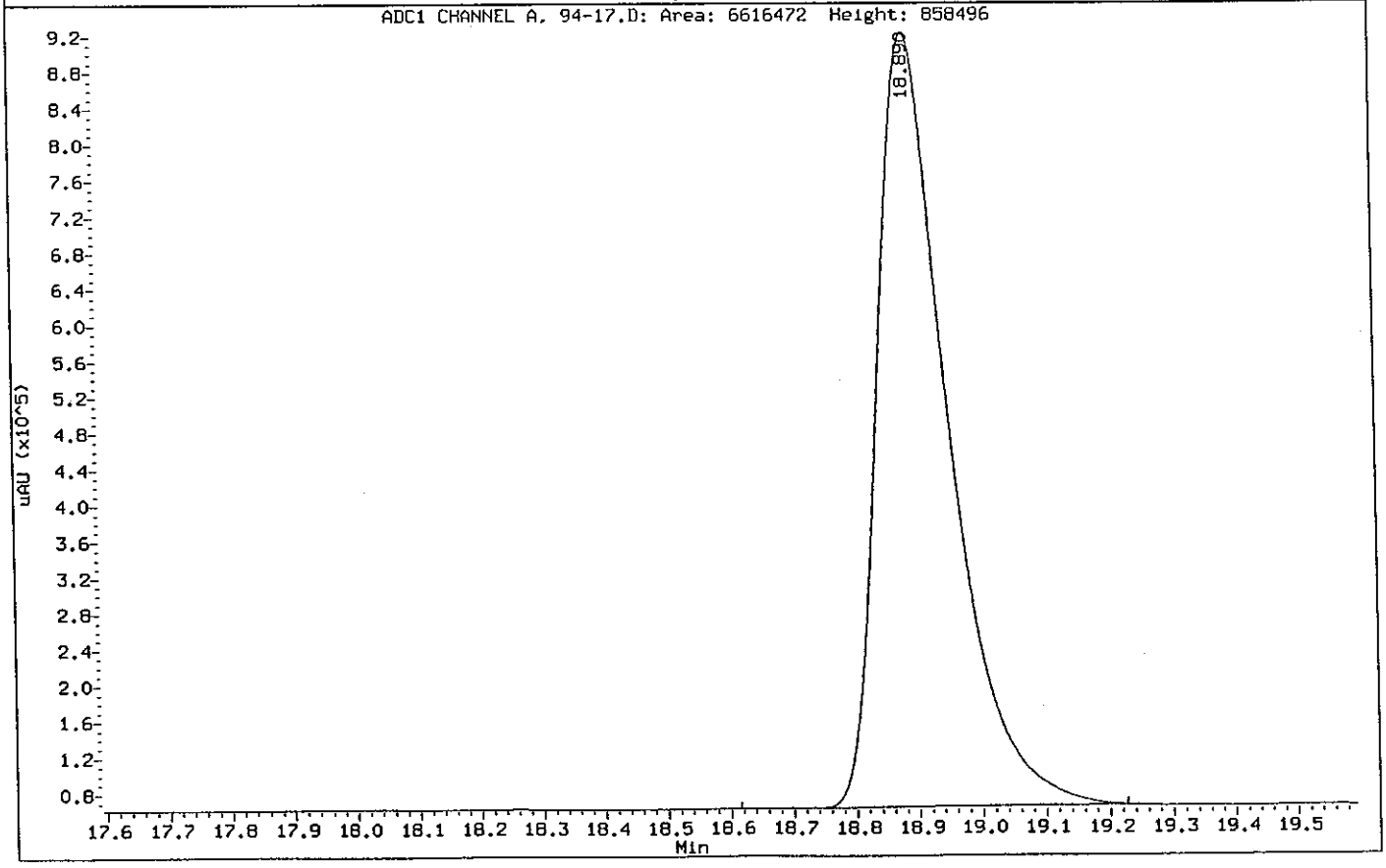


JMD

Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-17.D
Injection Date: 29-OCT-2001 01:25
Instrument: slc02.i
Client Sample ID: 062B189S101801

Compound: p-Terphenyl-d14 (SURR)
CAS Number: 1718-51-0





PEL Laboratories

Data file : \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-18.D
Lab Smp Id: 211009418 Client Smp ID: 062DUP1S101801
Inj Date : 29-OCT-2001 02:00
Operator : rood Inst ID: slc02.i
Smp Info : 211009418
Misc Info :
Comment :
Method : \\SVHPLC\ee\chem\slc02.i\L21028R1.b\8310S.m
Meth Date : 02-Nov-2001 08:36 jdonnelly Quant Type: ISTD
Cal Date : 28-OCT-2001 20:26 Cal File: PT2UGML.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: navy50.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	32.600	Extracted weight
M	10.548	% Moisture
Vf	1.000	Final Volume

RT	EXP RT	REL RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO
* 1 Carbazole (ISTD)						CAS #: 86-74-8		
11.376	10.610	(1.000)	VWD1A	304541			80.00- 120.00	100.00
11.464	10.610	(1.000)	ADC1A	2113936	10.0000		652.03- 978.05	694.14
5 2-Methyl naphthalene						CAS #: 91-57-6		
14.506	13.973	(1.275)	VWD1A	12639	2.46684	84.6	80.00- 120.00	100.00(M)
14.607	13.973	(1.284)	ADC1A	71356	6.29992	216	191.55- 287.32	564.57
6 Acenaphthene						CAS #: 83-32-9		
14.833	14.310	(1.304)	VWD1A	26998	11.6265	399	80.00- 120.00	100.00(M)
14.919	14.310	(1.311)	ADC1A	486055	18.2621	626	964.12-1446.17	1800.34
8 Phenanthrene						CAS #: 85-01-8		
15.850	15.500	(1.393)	VWD1A	189934	2.54736	87.4	80.00- 120.00	100.00

RT	EXP RT	REL RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	CONCENTRATIONS FINAL (ug/kg)	TARGET RANGE	RATIO
8 Phenanthrene (continued)								
15.939	15.500	(1.401)	ADC1A	193058	2.72841	93.6	78.58- 117.87	101.64
10 Fluoranthene						CAS #: 206-44-0		
17.356	17.066	(1.526)	VWD1A	108487	6.08635	209	80.00- 120.00	100.00(M)
17.464	17.066	(1.535)	ADC1A	63331			6.36- 9.54	58.38
11 Pyrene						CAS #: 129-00-0		
17.873	17.606	(1.571)	VWD1A	44875	3.28029	112	80.00- 120.00	100.00(M)
17.969	17.606	(1.579)	ADC1A	934231	5.11227	175	930.64-1395.96	2081.85
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.800	18.593	(1.653)	VWD1A	226063	14.2644	489	80.00- 120.00	100.00(M)
18.892	18.593	(1.661)	ADC1A	6538265	15.0728	517	2246.35-3369.53	2892.23
13 Benzo(a)Anthracene						CAS #: 56-55-3		
19.616	19.426	(1.724)	VWD1A	62971	1.50592	51.6	80.00- 120.00	100.00(aM)
19.712	19.426	(1.733)	ADC1A	631571	1.40531	48.2	881.58-1322.37	1002.96
14 Chrysene						CAS #: 218-01-9		
19.996	19.820	(1.758)	VWD1A	177707	2.97450	102	80.00- 120.00	100.00(M)
20.095	19.820	(1.766)	ADC1A	208972	1.46867	50.4	190.14- 285.21	117.59
15 Benzo(b)Fluoranthene						CAS #: 205-99-2		
21.383	21.253	(1.880)	VWD1A	110216	2.39100	82.0	80.00- 120.00	100.00(M)
21.455	21.253	(1.886)	ADC1A	59580	4.93649	169	20.85- 31.28	54.06
16 Benzo(k)Fluoranthene						CAS #: 207-08-9		
22.000	21.883	(1.934)	VWD1A	39896	1.13229	38.8	80.00- 120.00	100.00(aM)
22.115	21.883	(1.944)	ADC1A	17643	0.76596	26.3	52.76- 79.15	44.22
17 Benzo(a)pyrene						CAS #: 50-32-8		
22.580	22.476	(1.985)	VWD1A	99041	2.41075	82.7	80.00- 120.00	100.00(M)
22.684	22.476	(1.994)	ADC1A	163148	2.37713	81.5	138.13- 207.19	164.73
18 Dibenz(ah)Anthracene						CAS #: 53-70-3		
23.503	23.493	(2.066)	VWD1A	4911	0.53805	18.4	80.00- 120.00	100.00(aM)
23.607	23.493	(2.075)	ADC1A	11941	0.10954	3.8	949.04-1423.56	243.15
19 Benzo(ghi)Perylene						CAS #: 191-24-2		
24.283	24.226	(2.134)	VWD1A	33002	2.12394	72.8	80.00- 120.00	100.00(M)
24.357	24.226	(2.141)	ADC1A	364300	11.5755	397	155.32- 232.98	1103.87
20 Indeno(123cd)Pyrene						CAS #: 193-39-5		
24.746	24.703	(2.175)	VWD1A	85859	2.19174	75.2	80.00- 120.00	100.00
25.035	24.703	(2.201)	ADC1A	111328			0.00- 0.00	129.66

QC Flag Legend

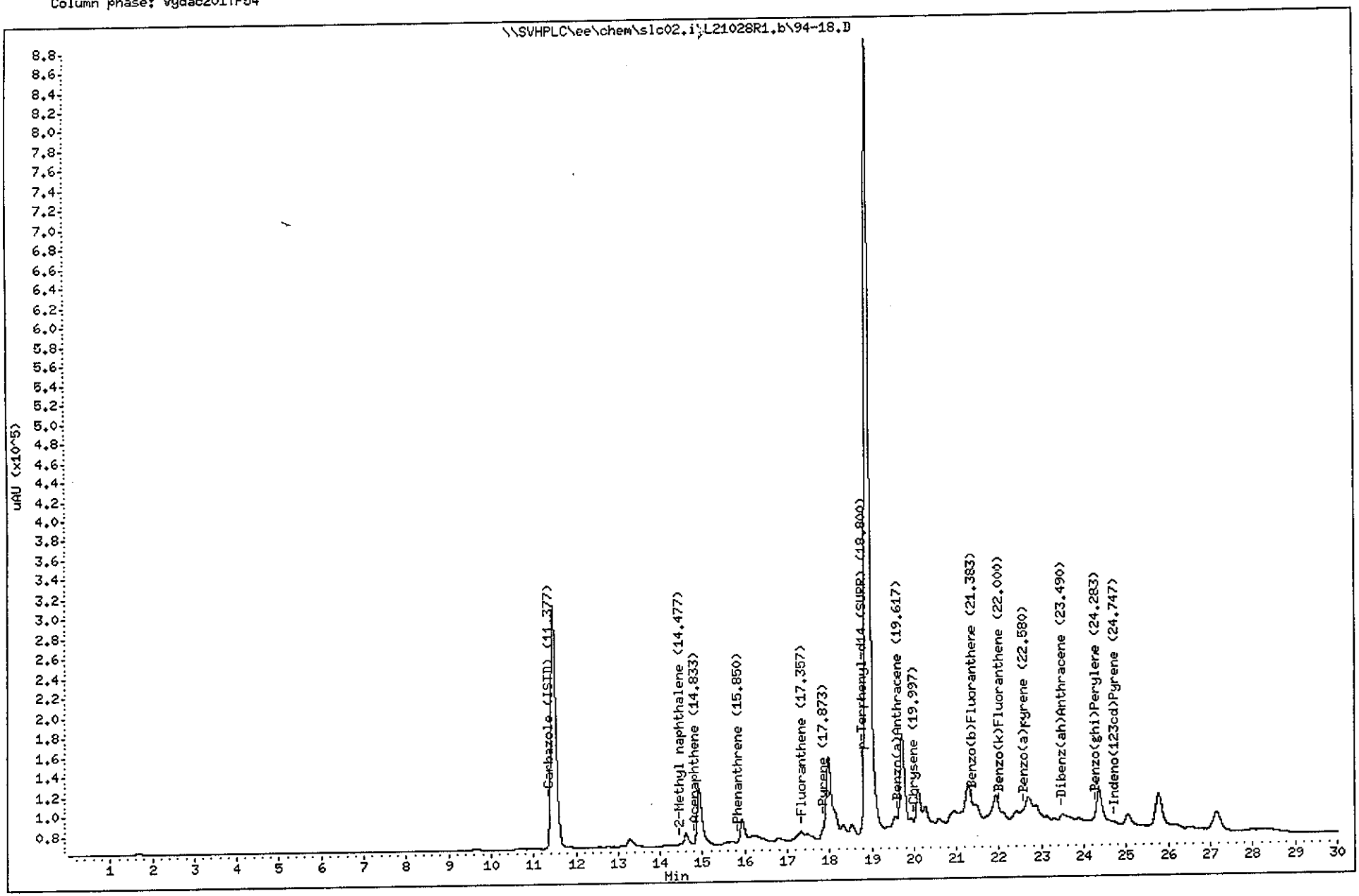
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-18.D
Date : 29-OCT-2001 02:00
Client ID: 062DUP1S101801
Sample Info: 211009418

Column phase: Vydac201TP54

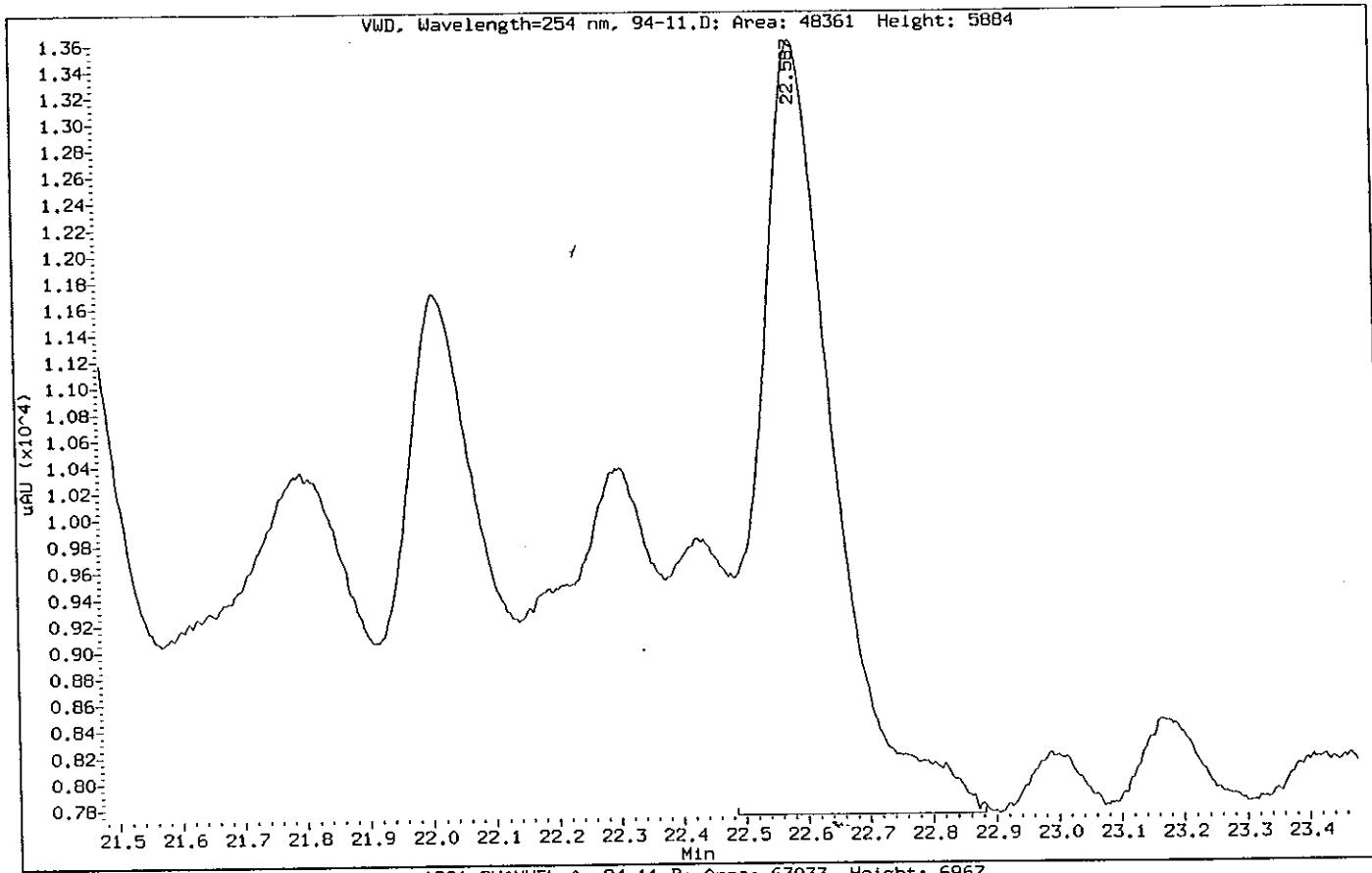
Instrument: slc02.i

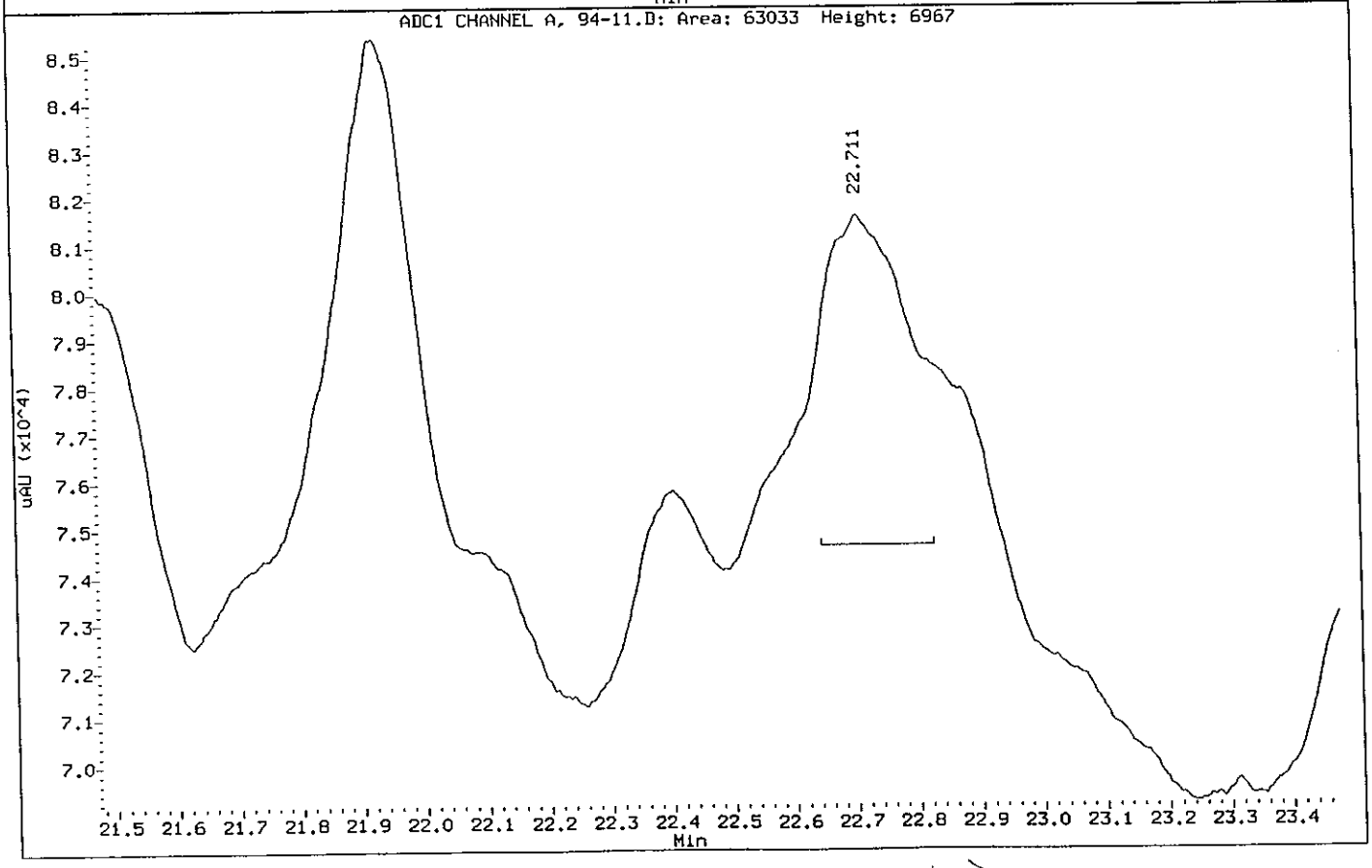
Operator: rood
Column diameter: 4.60



Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-11.D
Injection Date: 28-OCT-2001 21:35
Instrument: slc02.i
Client Sample ID: 062B106S101801

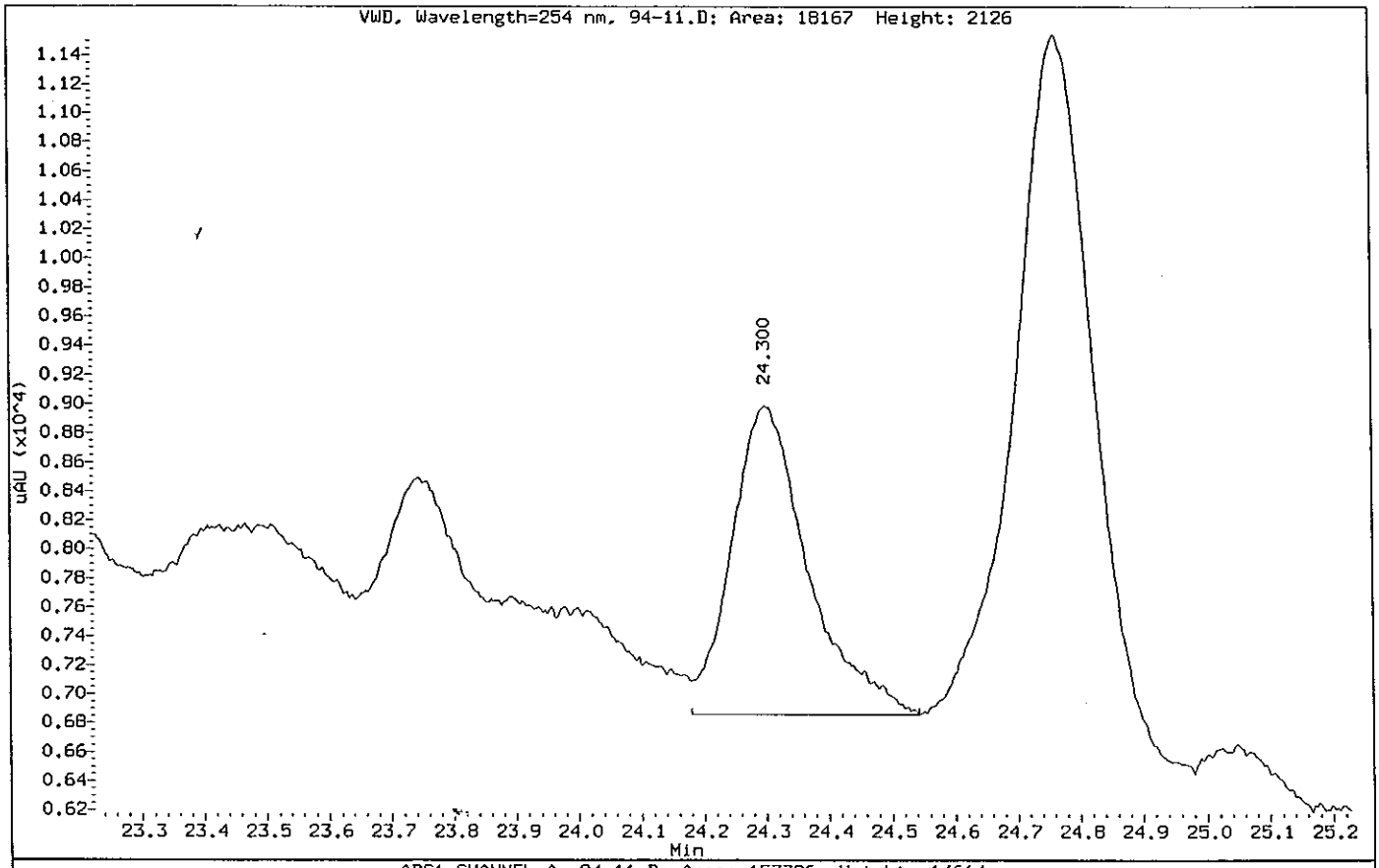
Compound: Benzo(a)pyrene
CAS Number: 50-32-8

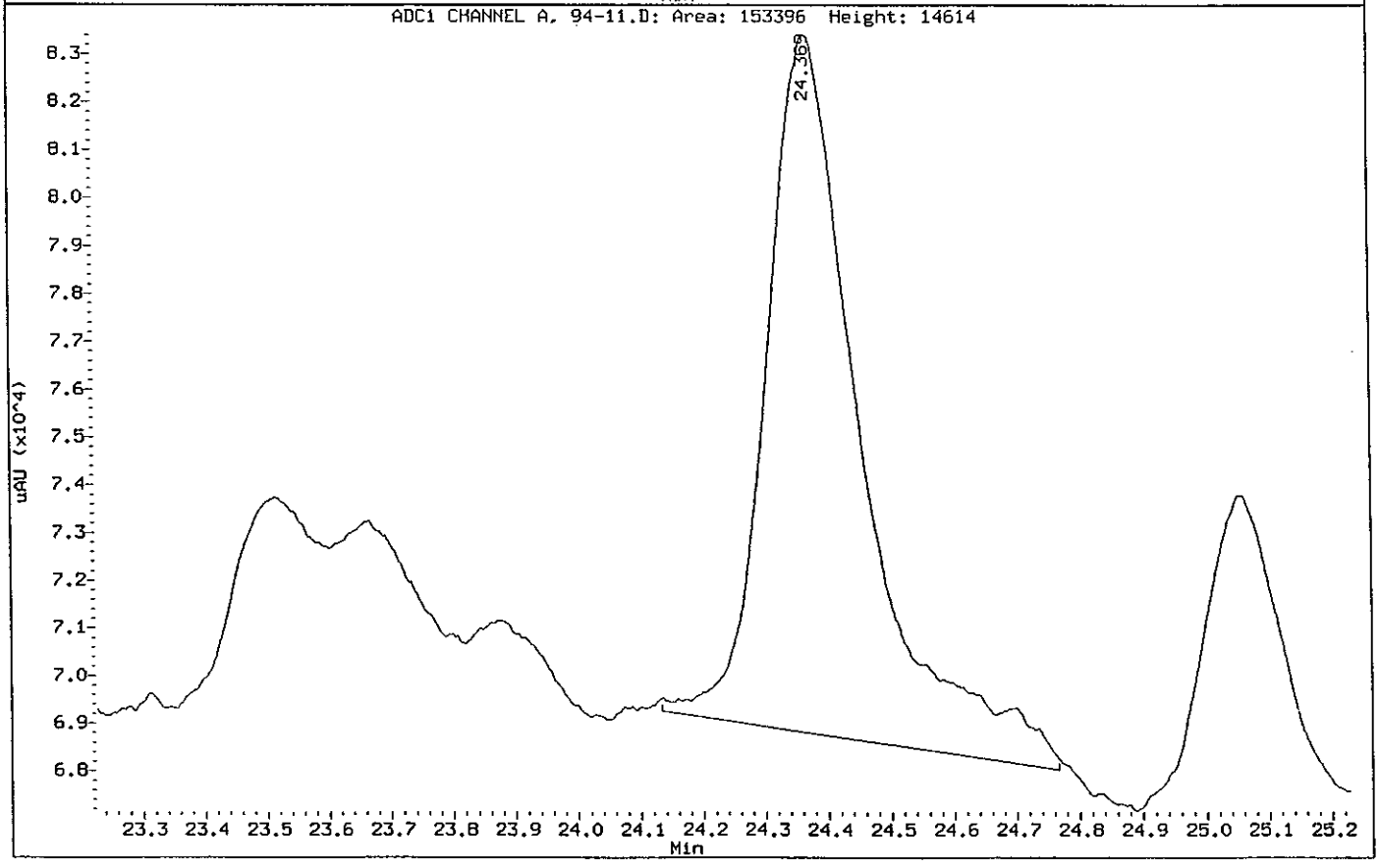




Data File: \\SVHPLC\ee\chem\slc02.1\L21028R1.b\94-11.D
Injection Date: 28-OCT-2001 21:35
Instrument: slc02.1
Client Sample ID: 062B106S101801

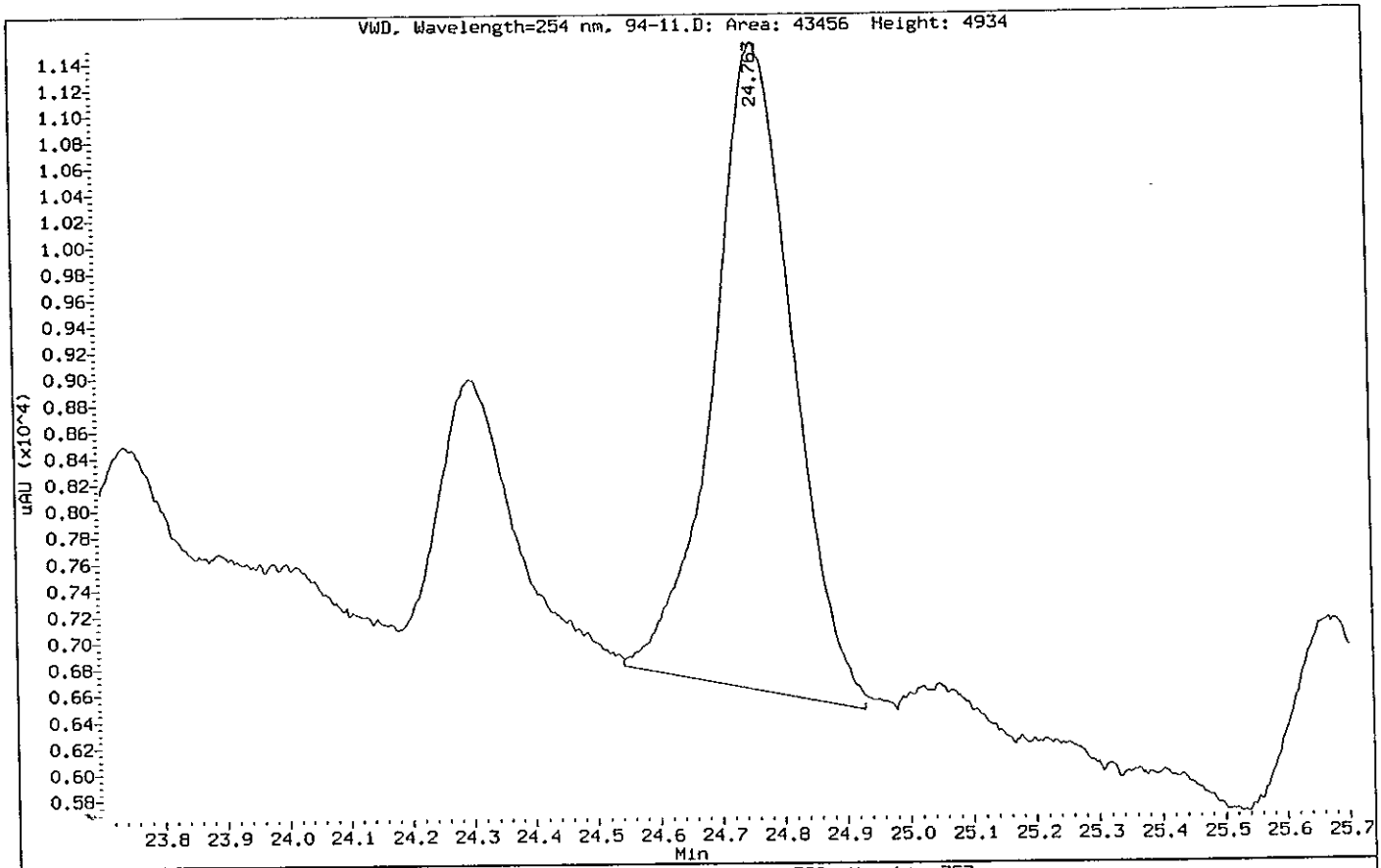
Compound: Benzo(ghi)Perylene
CAS Number: 191-24-2

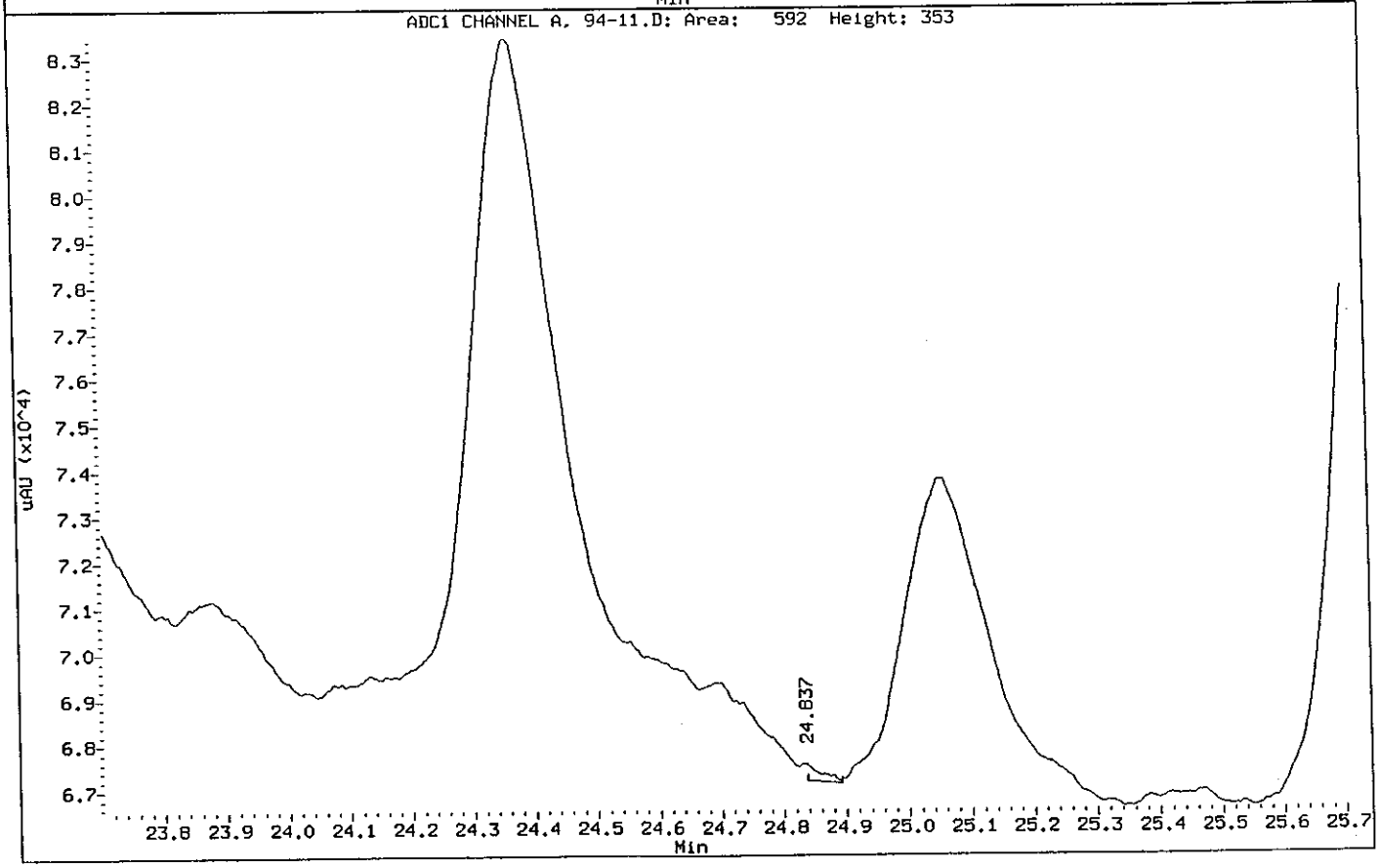




Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-11.D
Injection Date: 28-OCT-2001 21:35
Instrument: slc02.i
Client Sample ID: 062B1065101801

Compound: Indeno(123cd)Pyrene
CAS Number: 193-39-5





PEL Laboratories

Data file : \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-12.D
Lab Smp Id: 211009412 Client Smp ID: 062B110S101801
Inj Date : 28-OCT-2001 22:10
Operator : rood Inst ID: slc02.i
Smp Info : 211009412
Misc Info :
Comment :
Method : \\SVHPLC\ee\chem\slc02.i\L21028R1.b\8310S.m
Meth Date : 02-Nov-2001 08:36 jdonnelly Quant Type: ISTD
Cal Date : 28-OCT-2001 20:26 Cal File: PT2UGML.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: navy50.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	32.800	Extracted weight
M	12.507	% Moisture
Vf	1.000	Final Volume

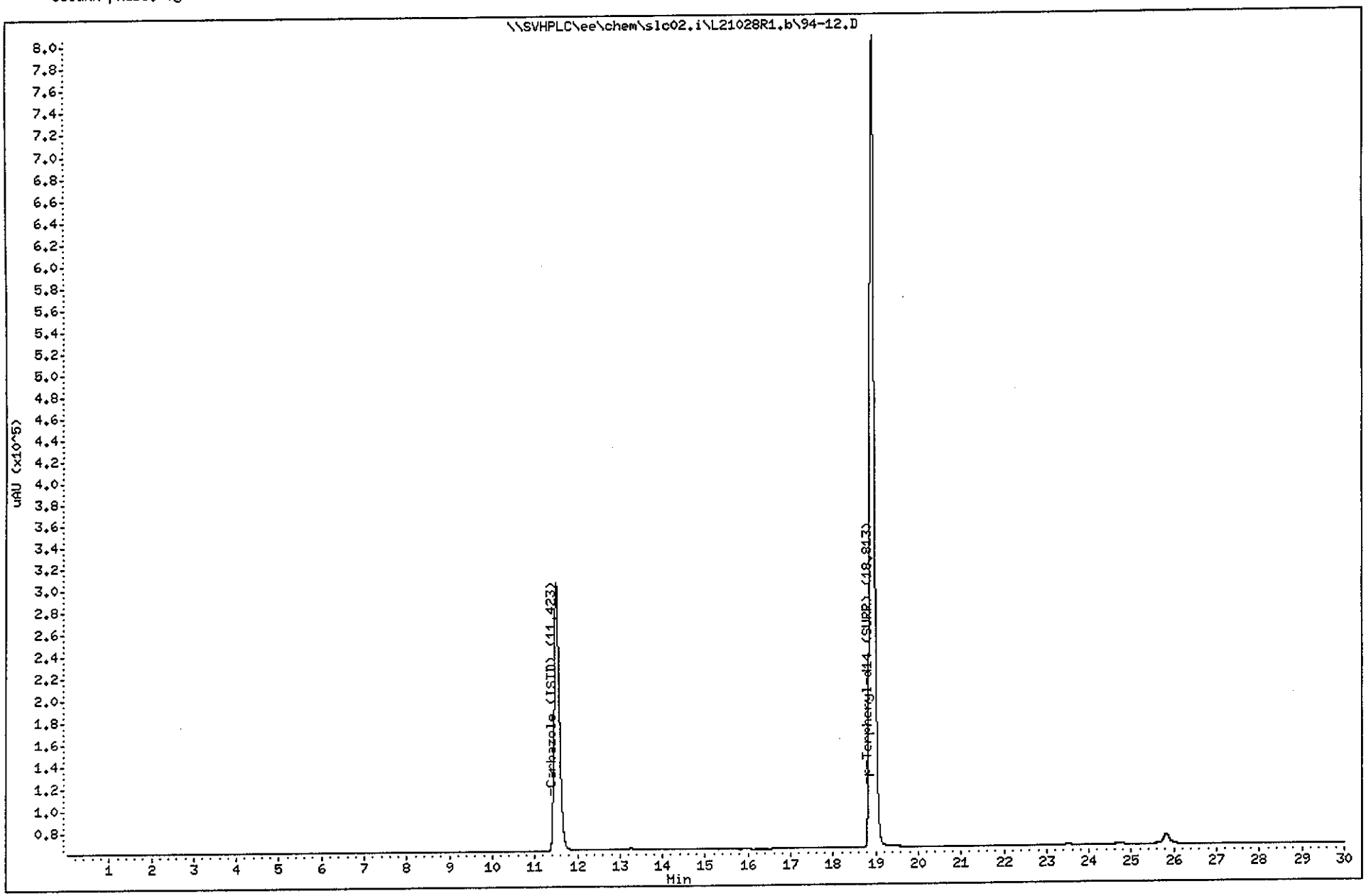
					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	REL RT	SIGNAL	RESPONSE	(ug/ml)	(ug/kg)	TARGET RANGE	RATIO
* 1 Carbazole (ISTD)						CAS #: 86-74-8		
11.423	10.610	(1.000)	VWD1A	263947			80.00- 120.00	100.00
11.509	10.610	(1.000)	ADC1A	2080422	10.0000		652.03- 978.05	788.20
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.813	18.593	(1.647)	VWD1A	196729	12.6134	440	80.00- 120.00	100.00
18.906	18.593	(1.655)	ADC1A	5691429	13.3319	464	2246.35-3369.53	2893.03

Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-12.D
Date : 28-OCT-2001 22:10
Client ID: 062B110S101801
Sample Info: 211009412

Instrument: slc02.i

Operator: rood
Column diameter: 4.60

Column phase: Vydac201TP54



PEL Laboratories

Data file : \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-13.D
Lab Smp Id: 211009413 Client Smp ID: 062B137S101801
Inj Date : 28-OCT-2001 22:45
Operator : rood Inst ID: slc02.i
Smp Info : 211009413
Misc Info :
Comment :
Method : \\SVHPLC\ee\chem\slc02.i\L21028R1.b\8310S.m
Meth Date : 02-Nov-2001 08:36 jdonnelly Quant Type: ISTD
Cal Date : 28-OCT-2001 20:26 Cal File: PT2UGML.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: navy50.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	32.900	Extracted weight
M	10.930	% Moisture
Vf	1.000	Final Volume

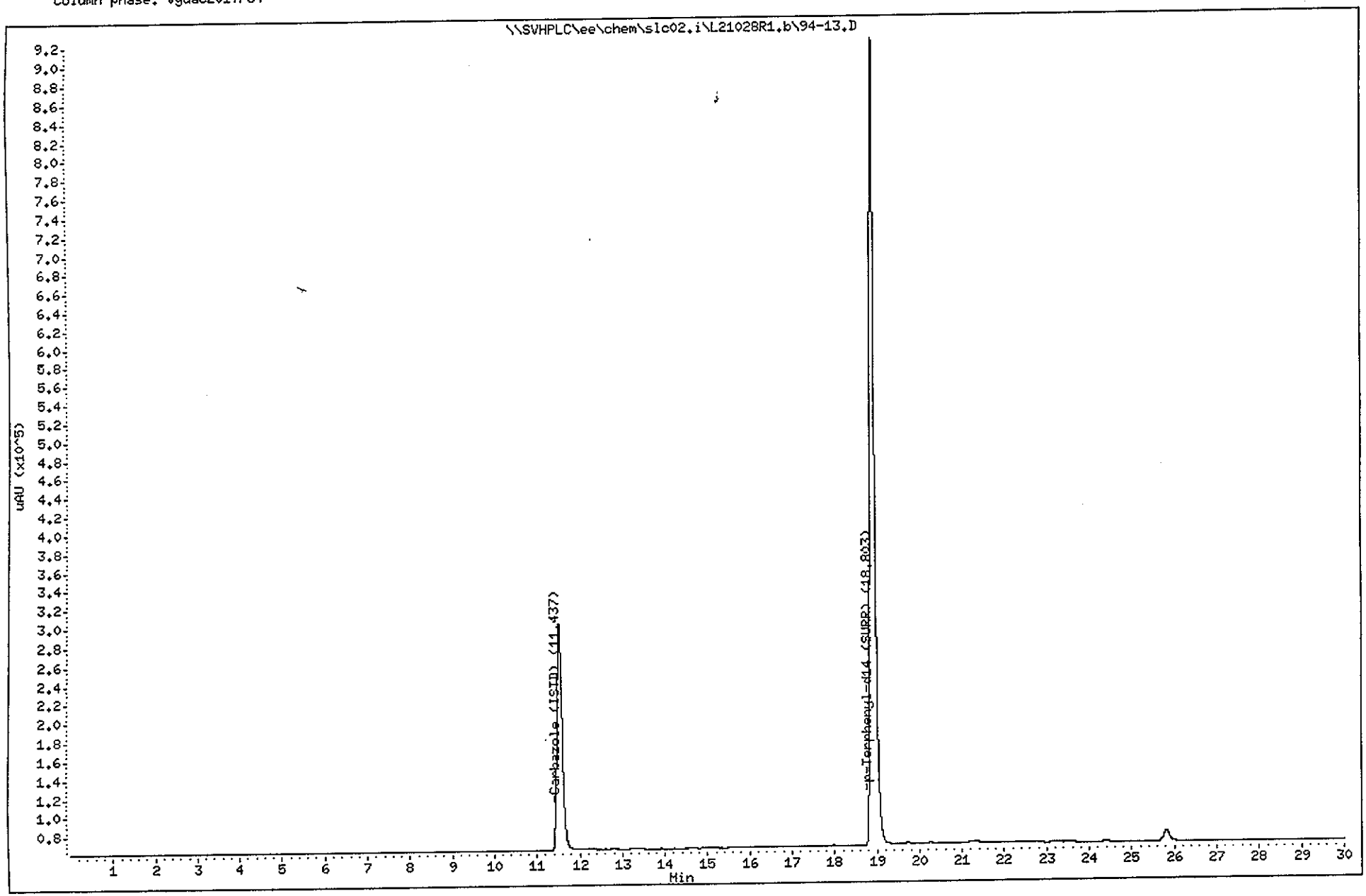
RT	EXP RT	REL RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	CONCENTRATIONS FINAL (ug/kg)	TARGET RANGE	RATIO
* 1 Carbazole (ISTD)						CAS #: 86-74-8		
11.436	10.610	(1.000)	VWD1A	261122			80.00- 120.00	100.00
11.525	10.610	(1.000)	ADC1A	2042718	10.0000		652.03- 978.05	782.28
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.803	18.593	(1.644)	VWD1A	233479	15.2459	520	80.00- 120.00	100.00
18.897	18.593	(1.652)	ADC1A	6588182	15.7174	536	2246.35-3369.53	2821.74

Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-13.D
Date : 28-OCT-2001 22:45
Client ID: 062B137S101801
Sample Info: 211009413

Instrument: slc02.i

Operator: rood
Column diameter: 4.60

Column phase: Vydac201TP54



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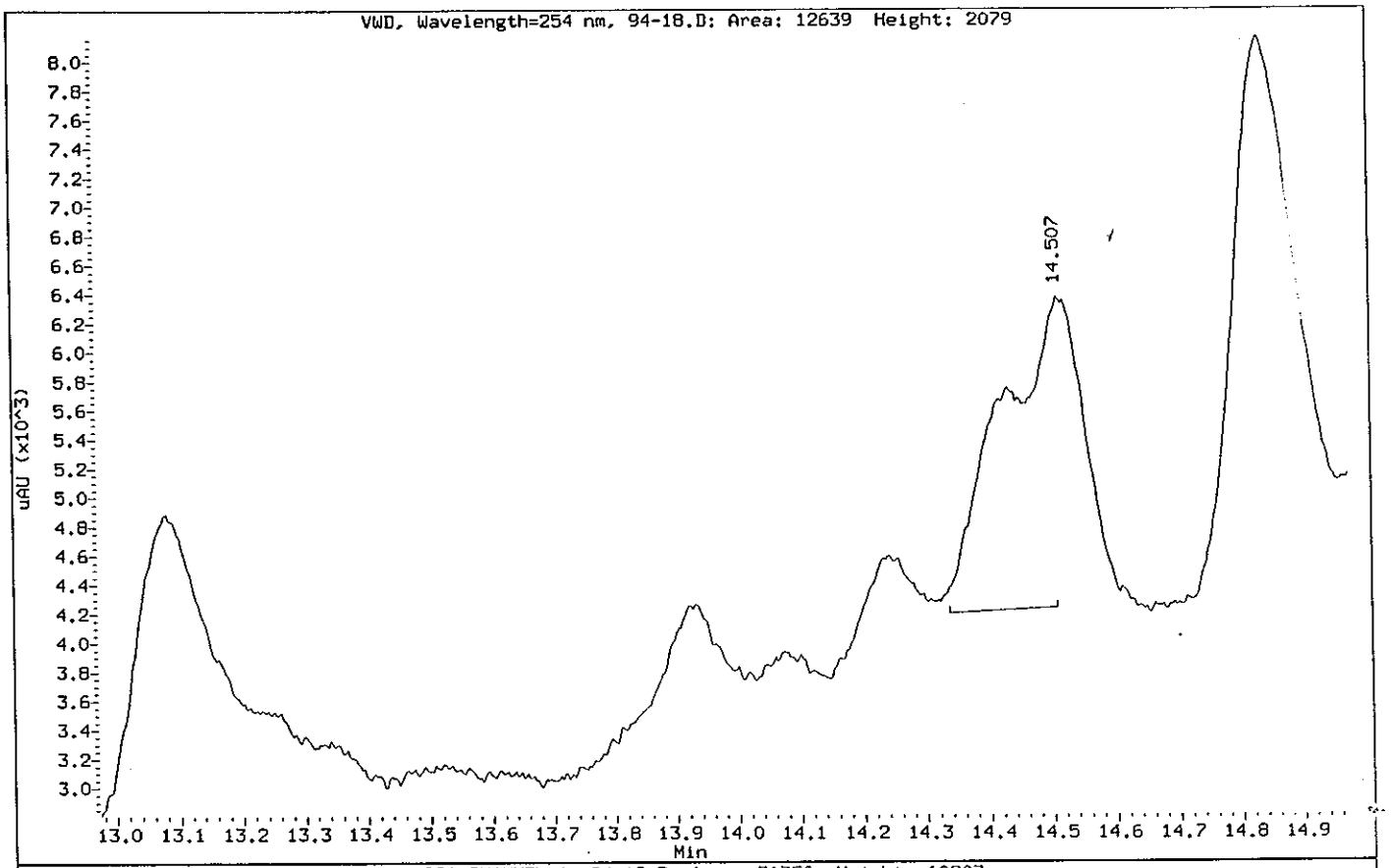
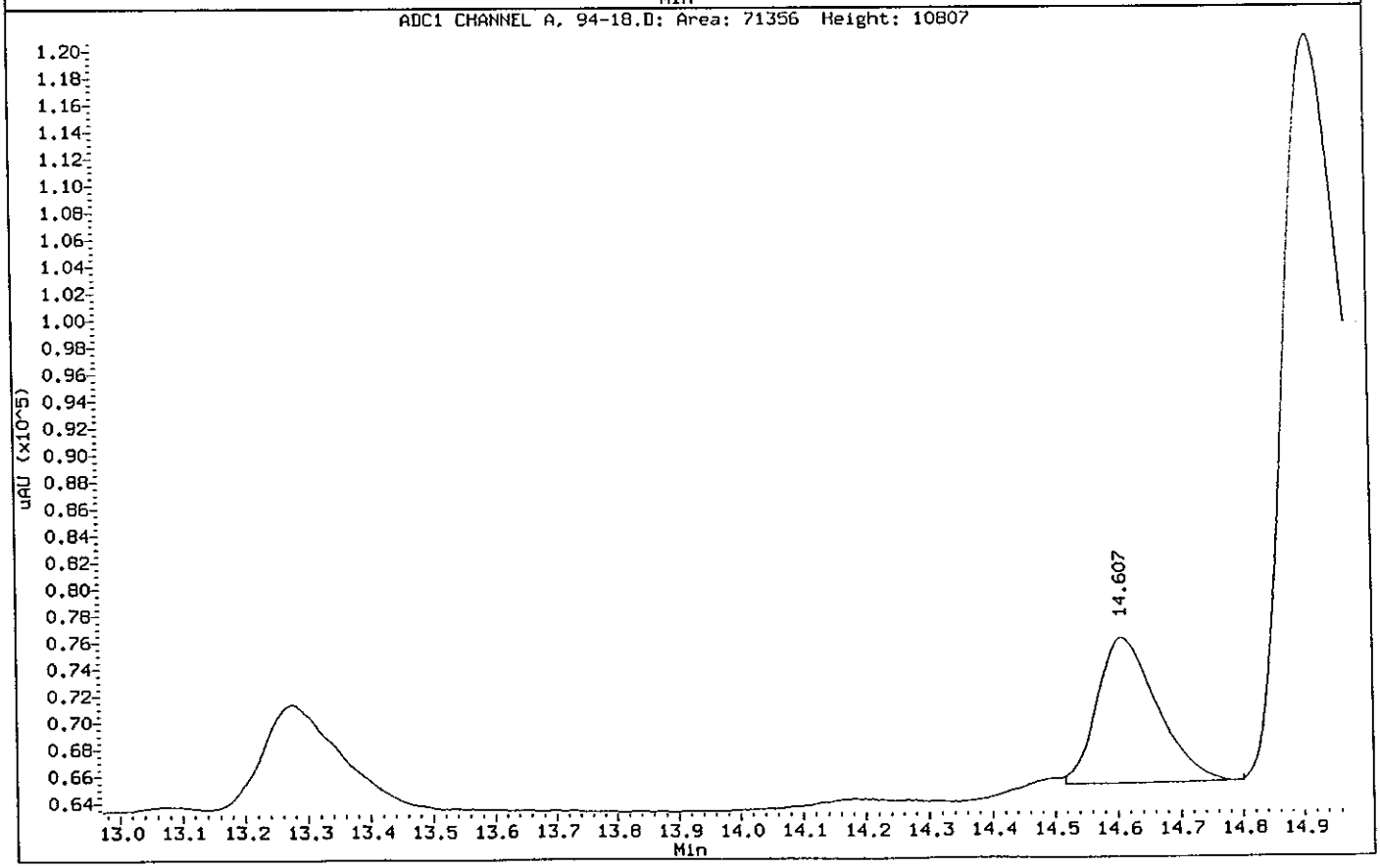
Injection Date: 29-OCT-2001 02:00
Instrument: slc02.i
Client Sample ID: 062DUP1S101801

Compound: 2-Methyl naphthalene
CAS Number: 91-57-6





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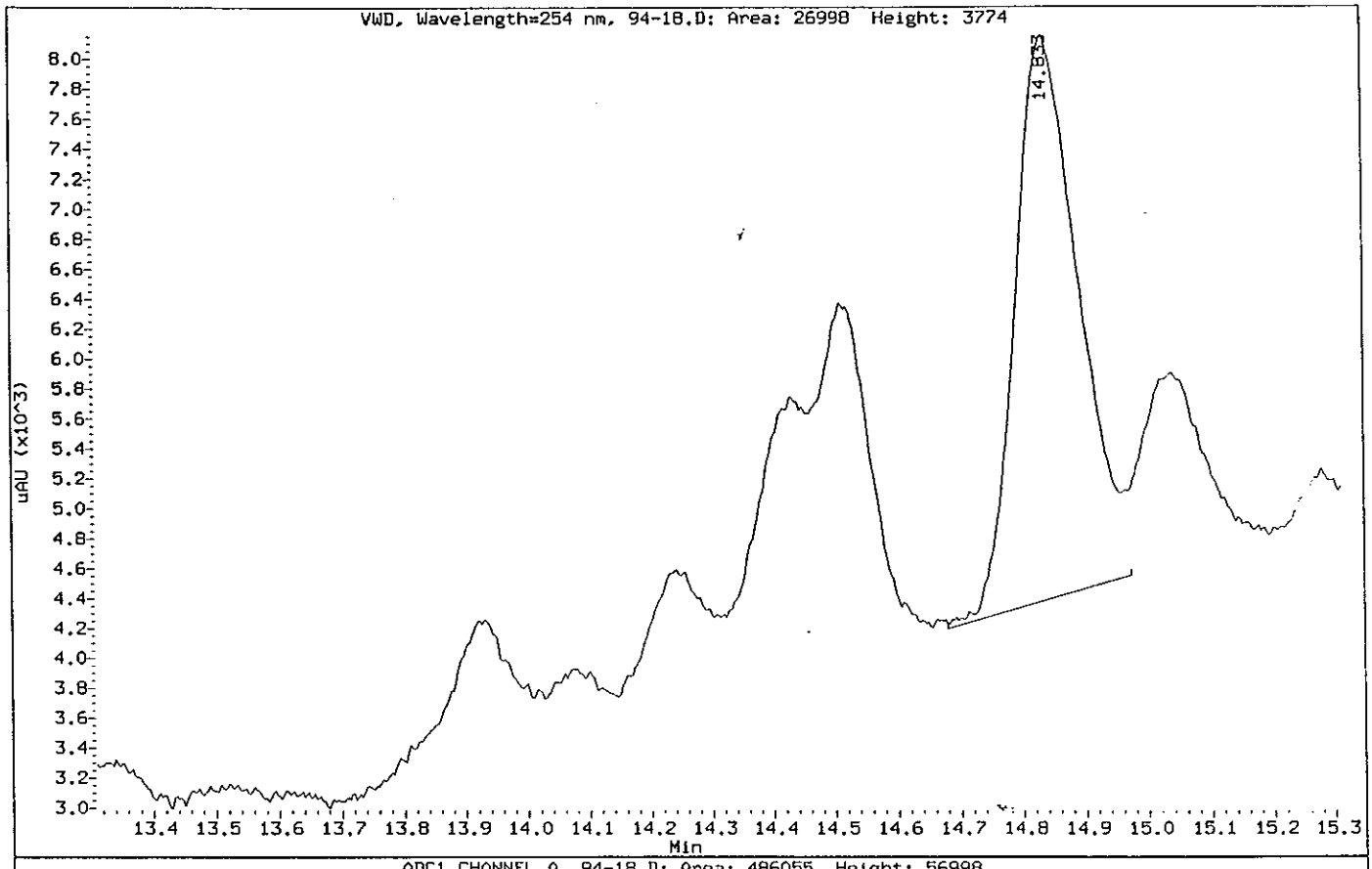
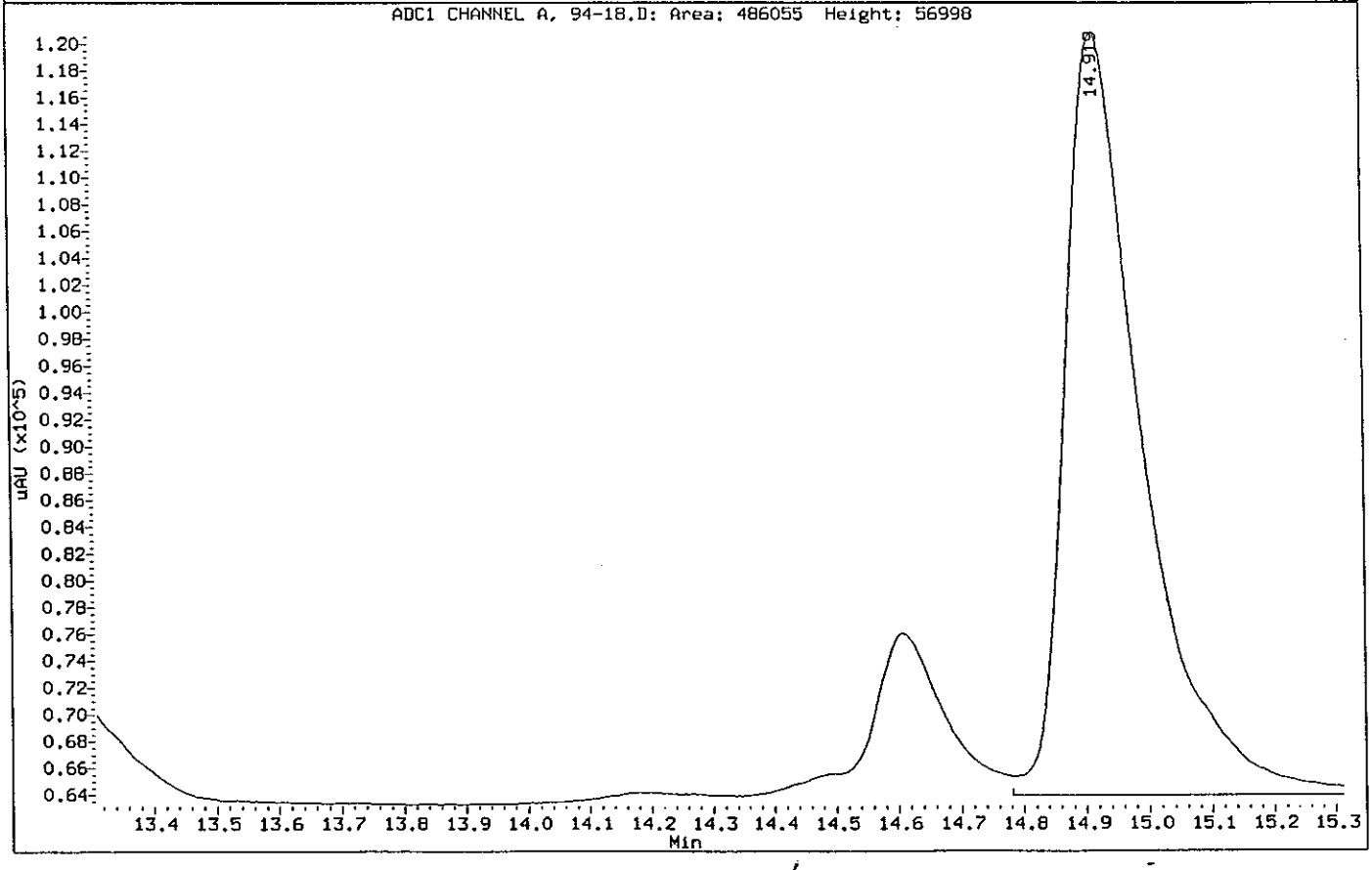
Injection Date: 29-OCT-2001 02:00
Instrument: slc02.i
Client Sample ID: 062DUP1S101801

Compound: Acenaphthene
CAS Number: 83-32-9





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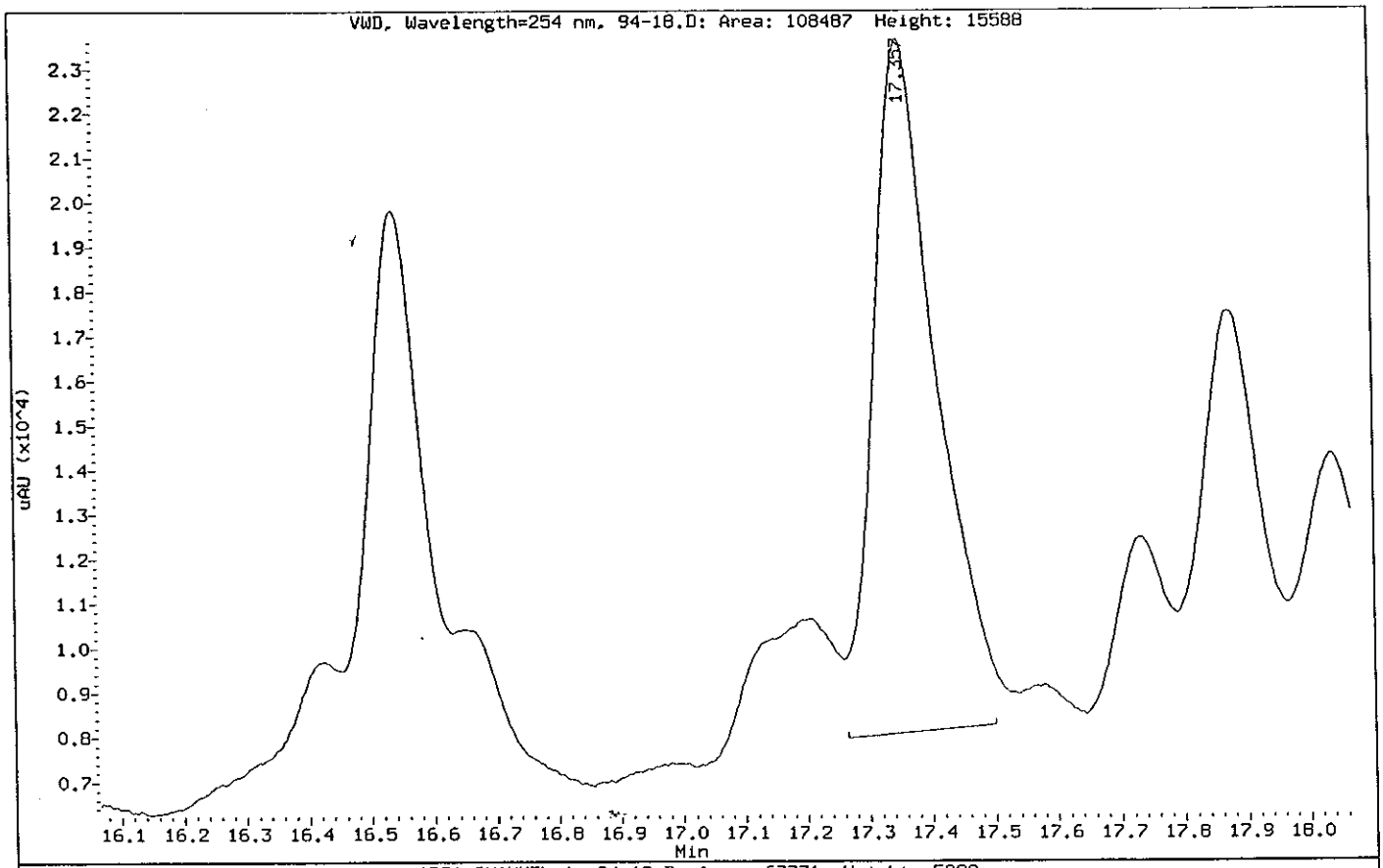
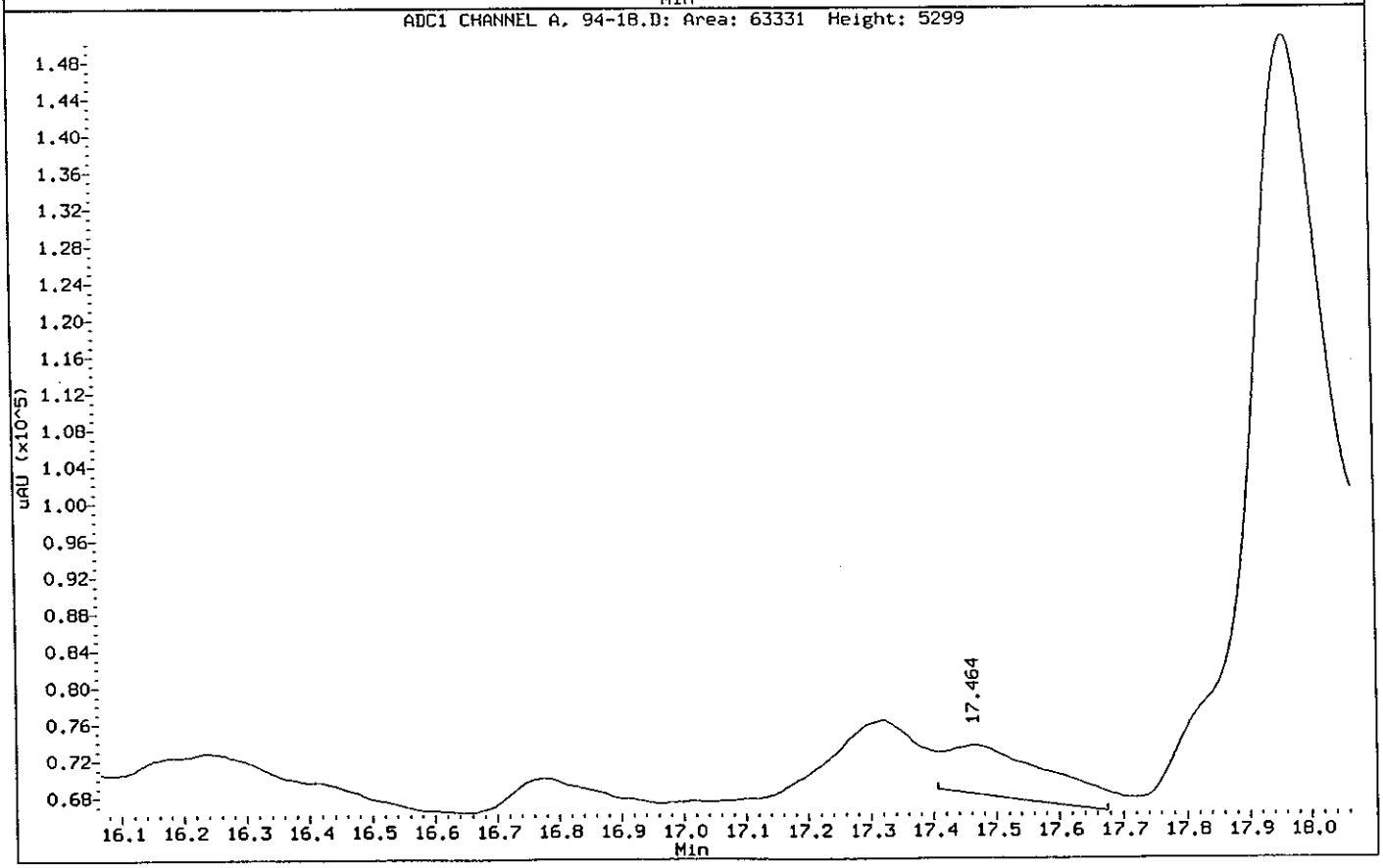
Instrument: slc02.i
Client Sample ID: 062DUP1S101801

Compound: Fluoranthene
CAS Number: 206-44-0

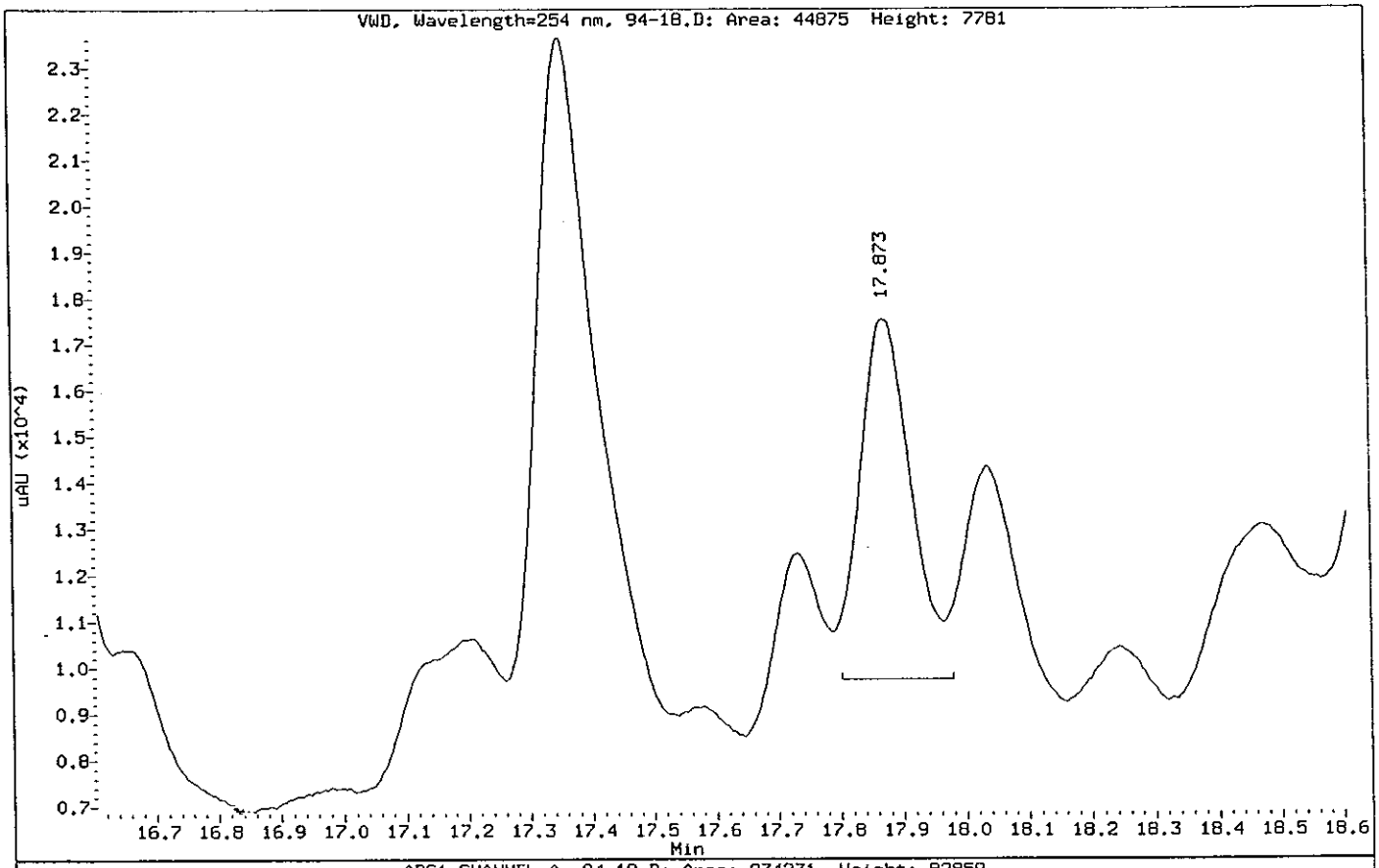


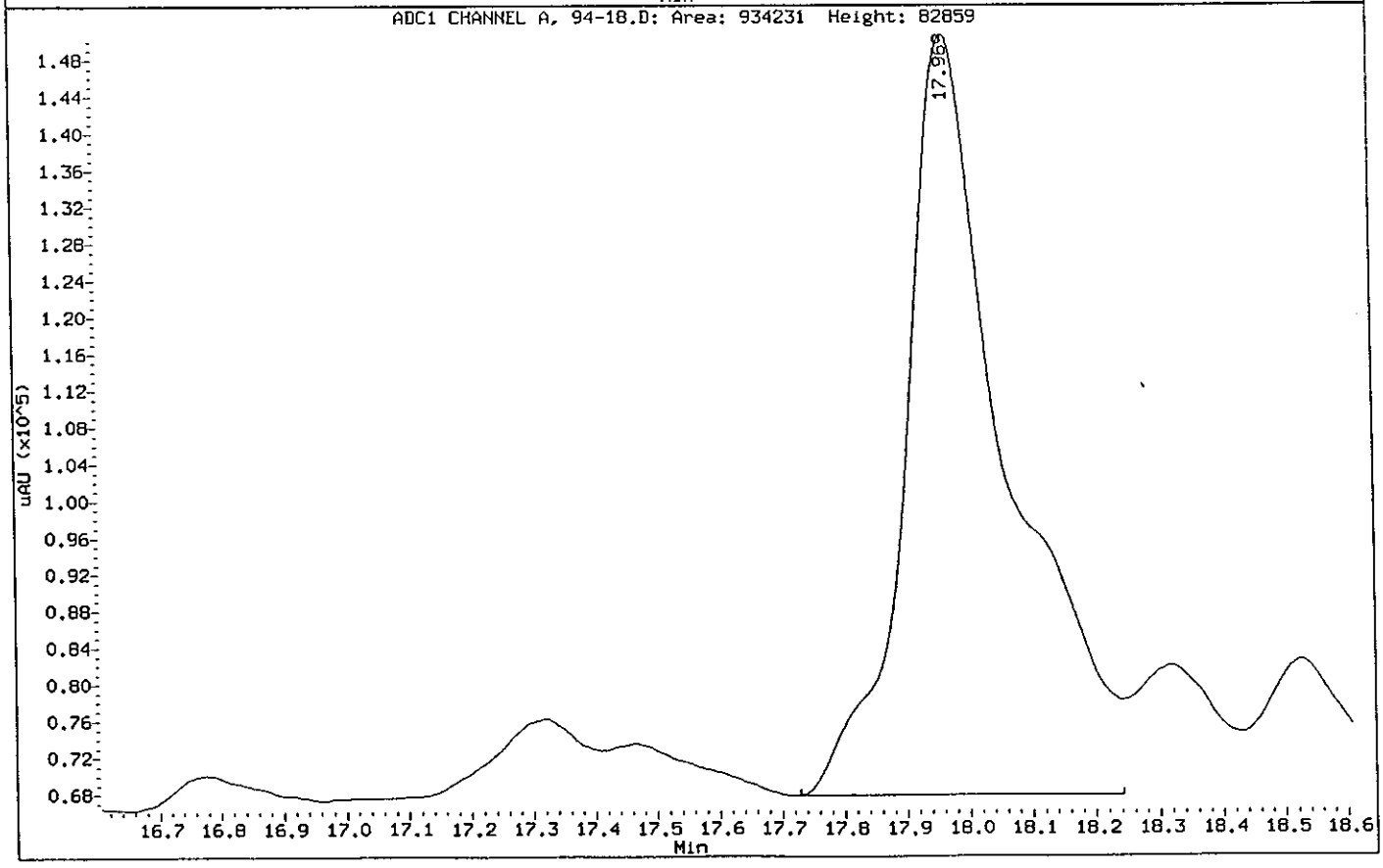


FID

Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-18.D
Injection Date: 29-OCT-2001 02:00
Instrument: slc02.i
Client Sample ID: 062DUP1S101801

Compound: Pyrene
CAS Number: 129-00-0





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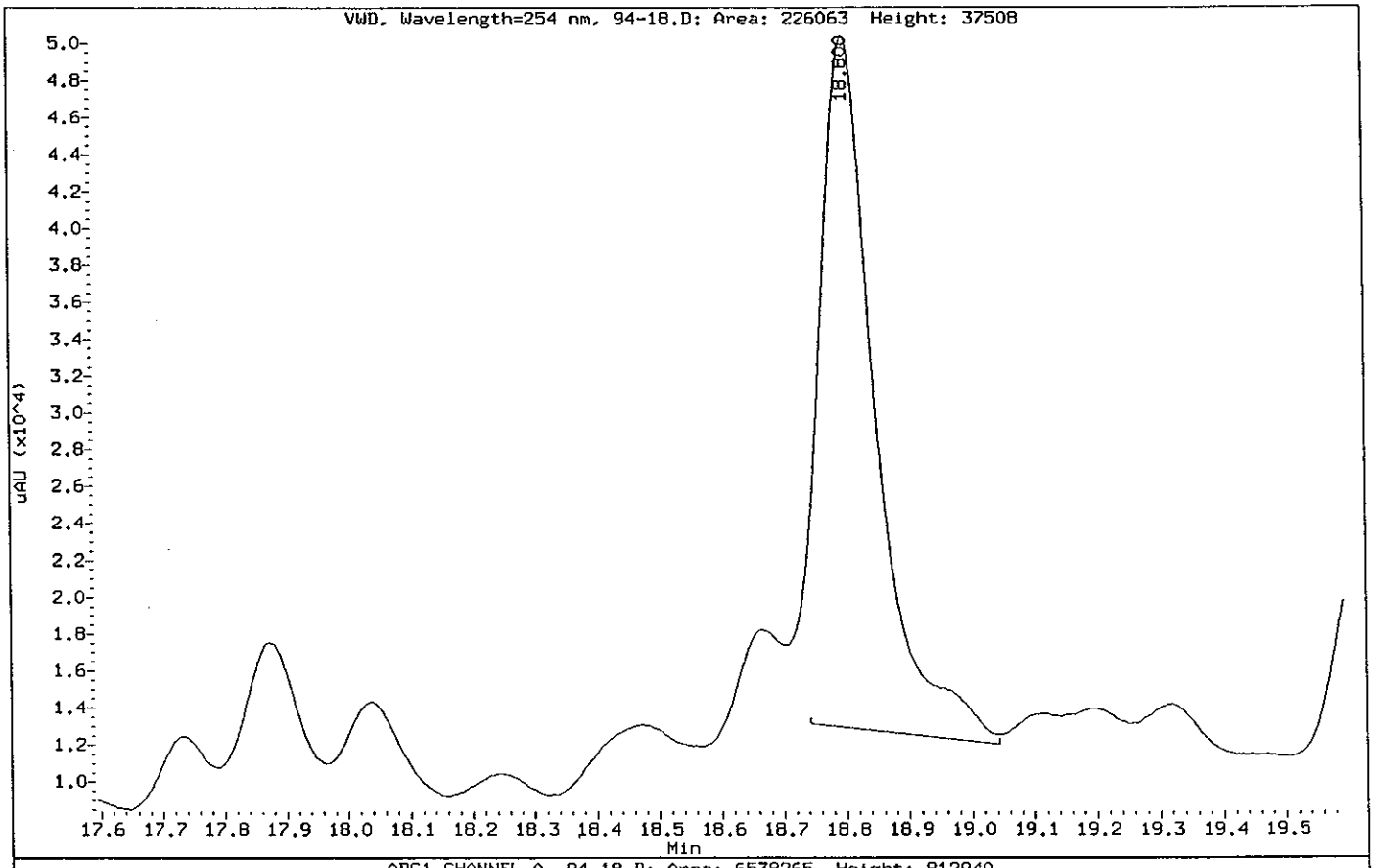
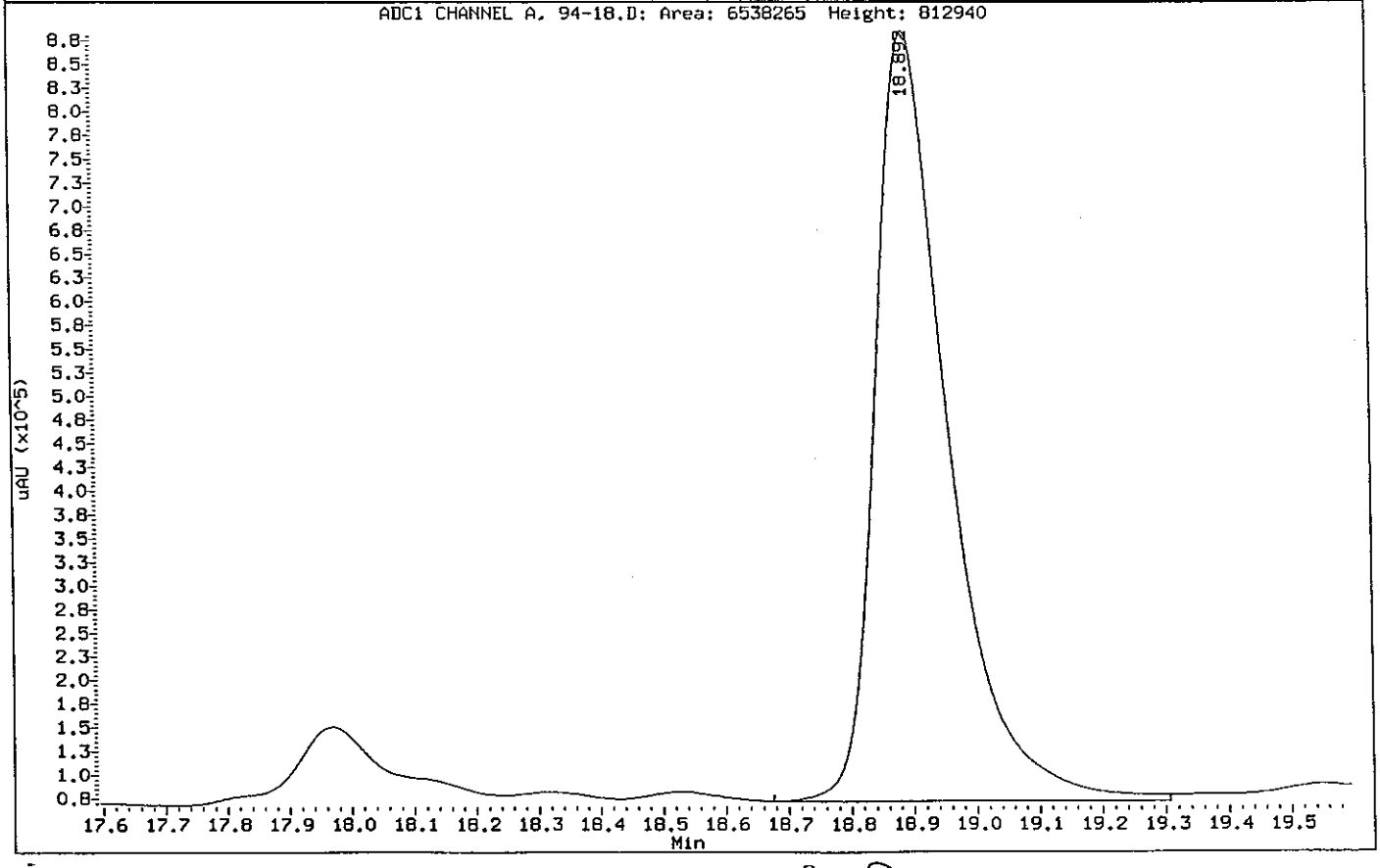
Injection Date: 29-OCT-2001 02:00
Instrument: slc02.i
Client Sample ID: 062DUP15101801

Compound: p-Terphenyl-d14 (SURR)
CAS Number: 1718-51-0





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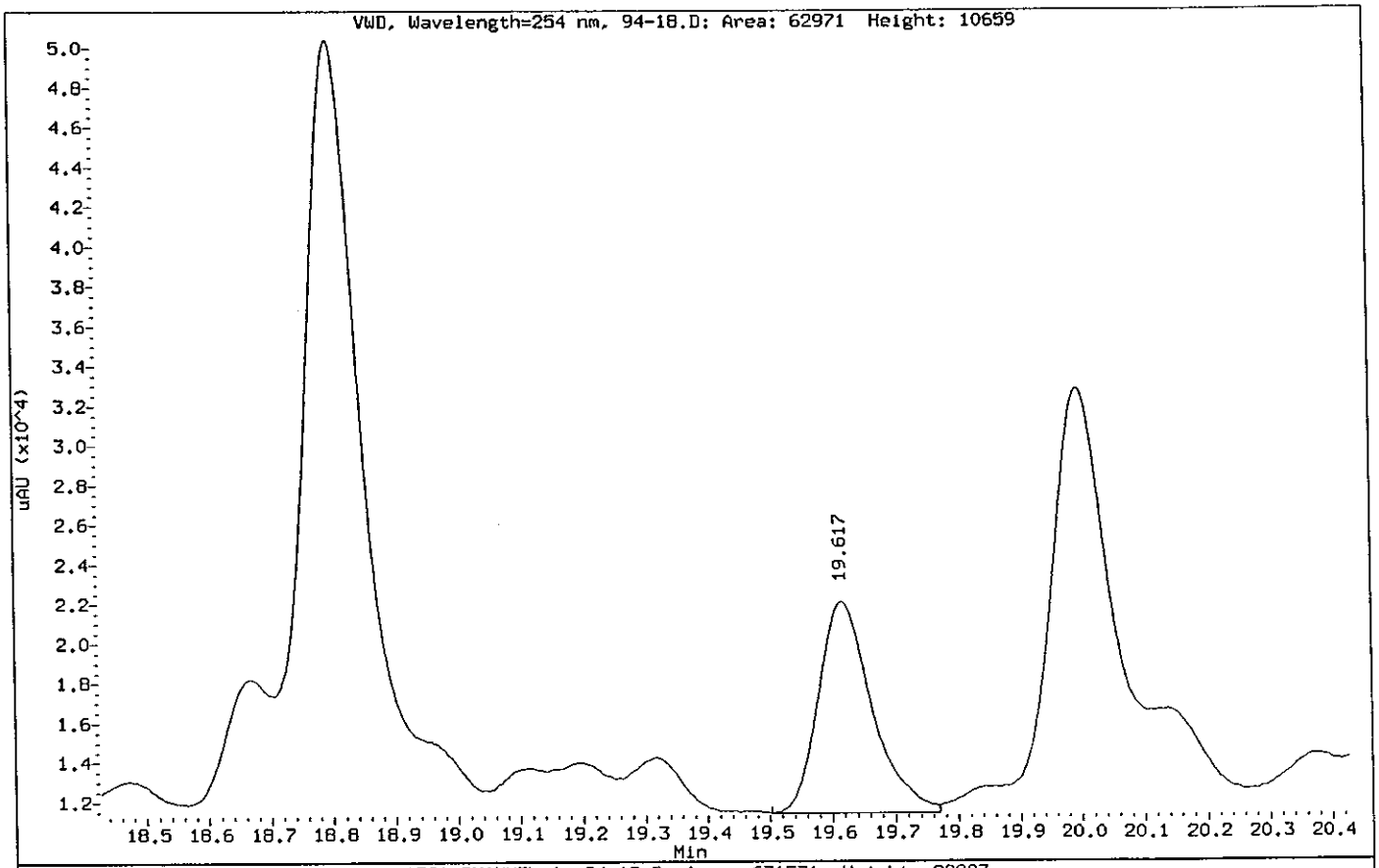
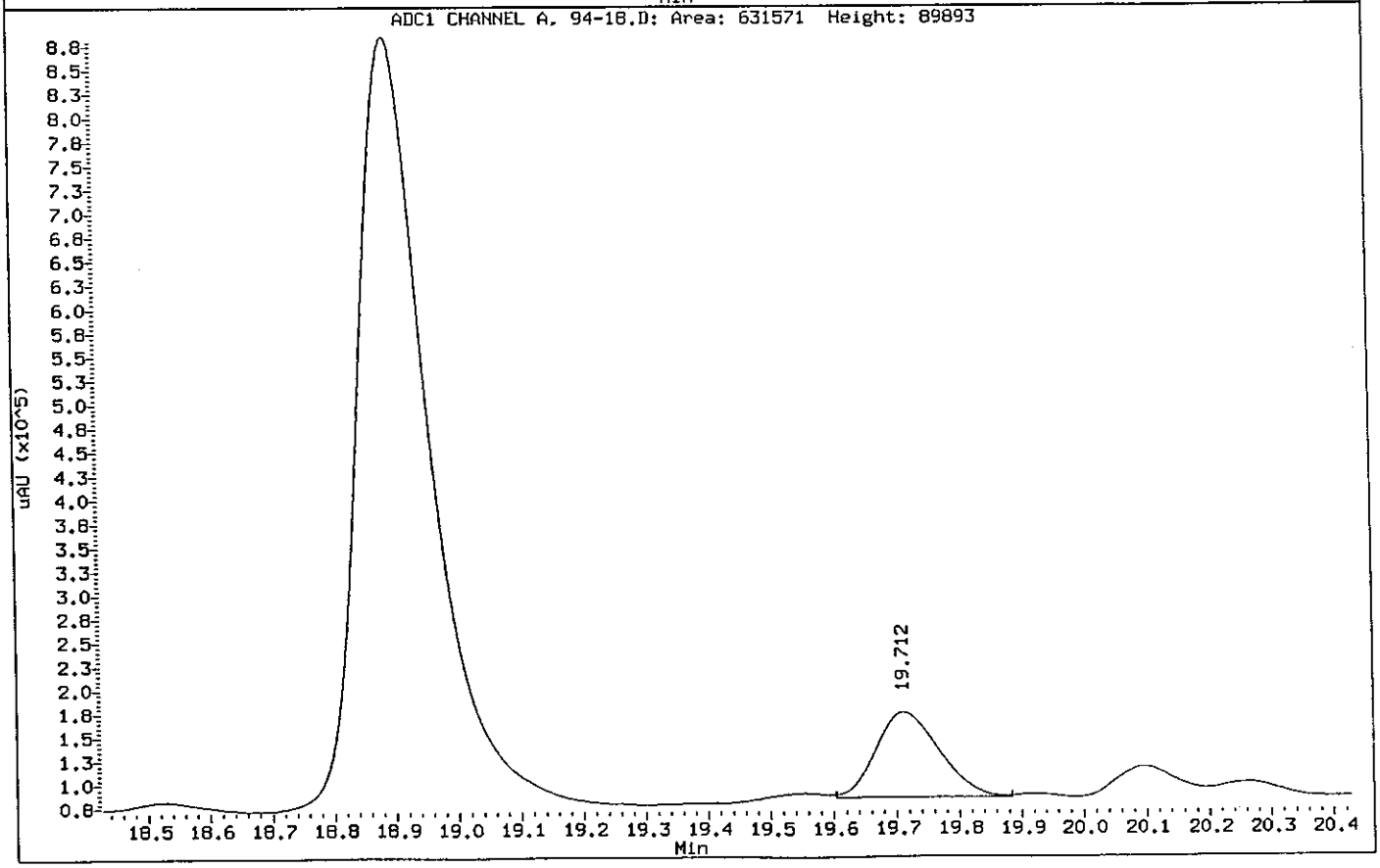
Injection Date: 29-OCT-2001 02:00
Instrument: slc02.i
Client Sample ID: 062DUP1S101801

Compound: Benzo(a)Anthracene
CAS Number: 56-55-3





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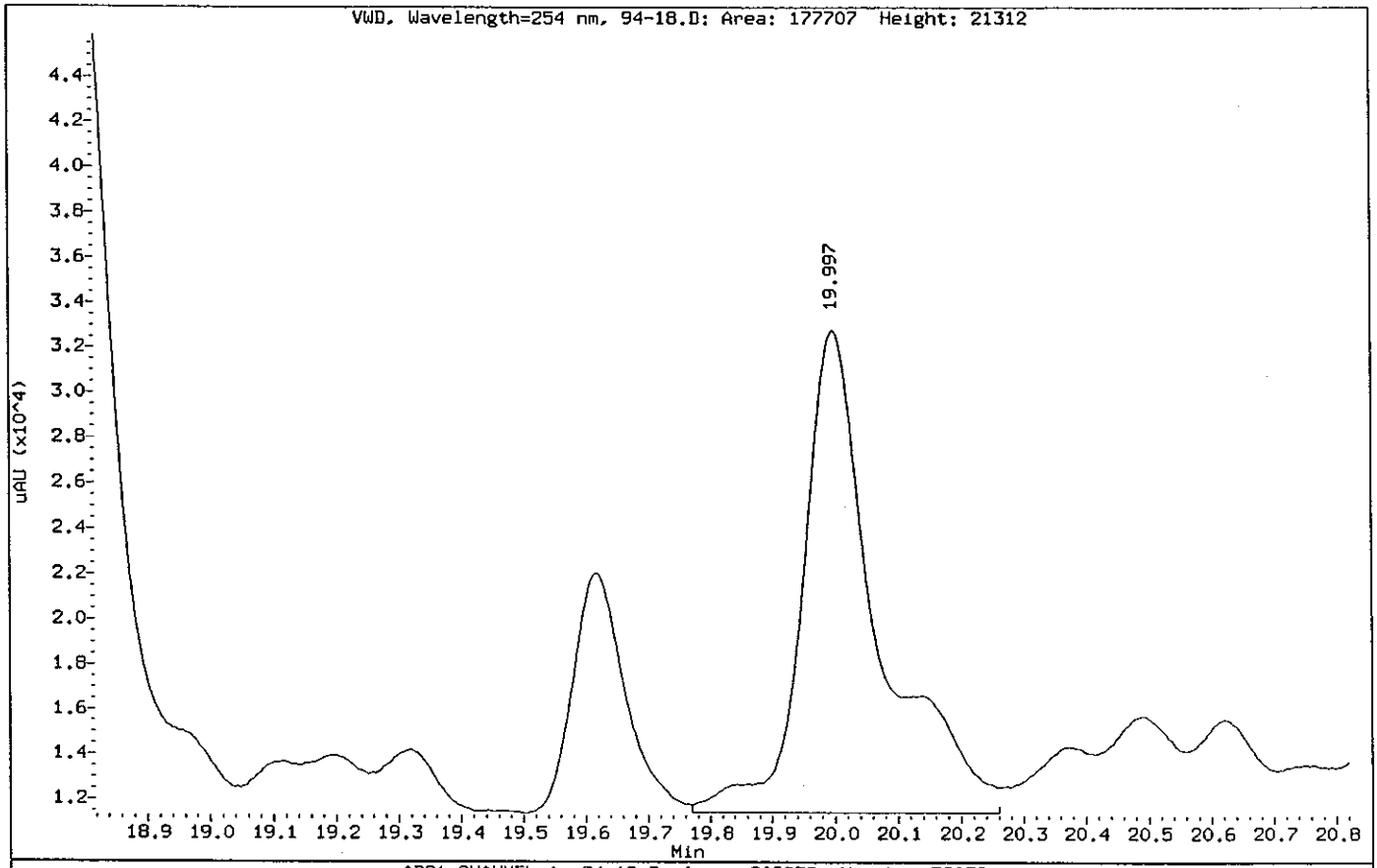
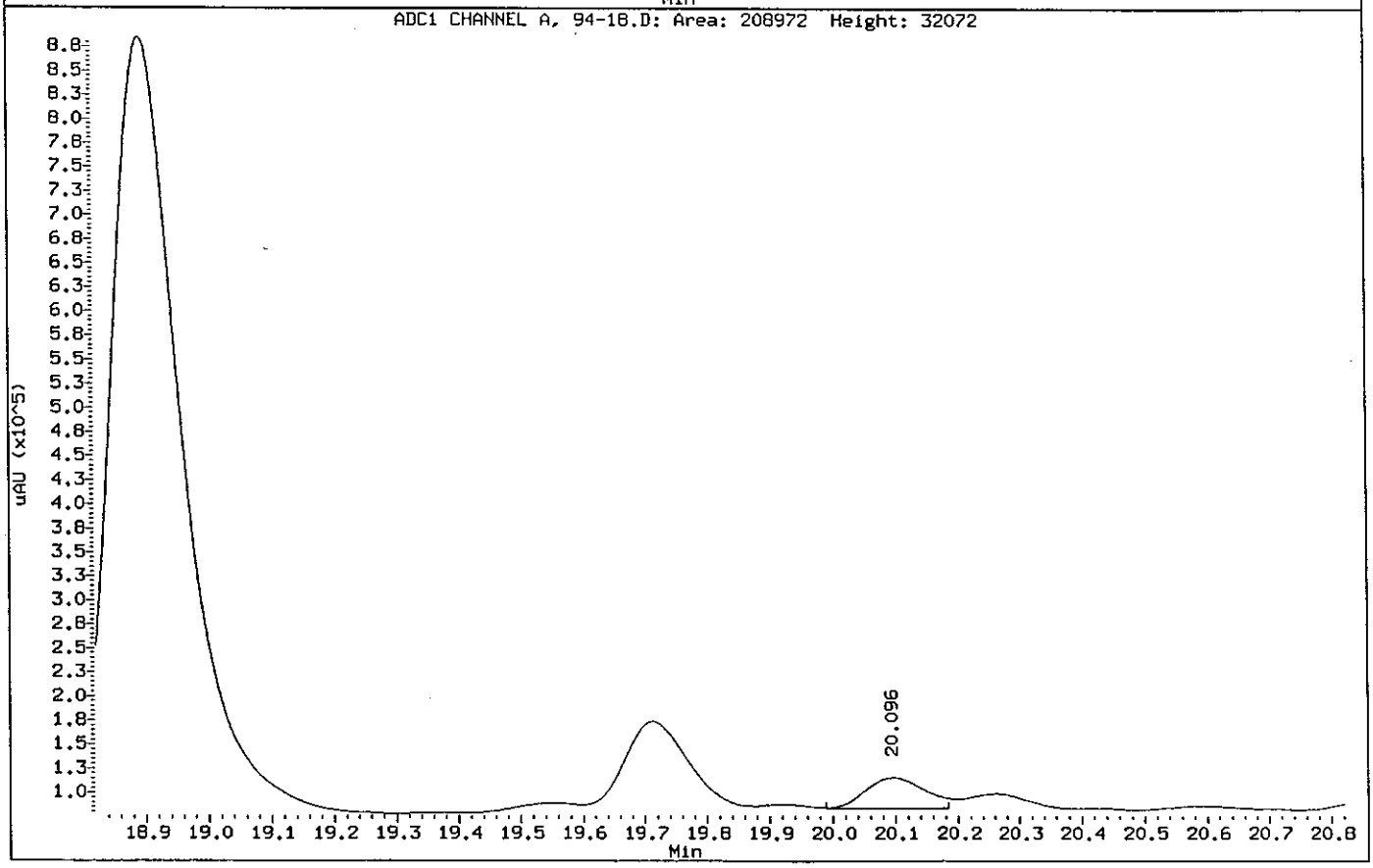
Injection Date: 29-OCT-2001 02:00
Instrument: slc02.i
Client Sample ID: 062DUP1S101801

Compound: Chrysene
CAS Number: 218-01-9

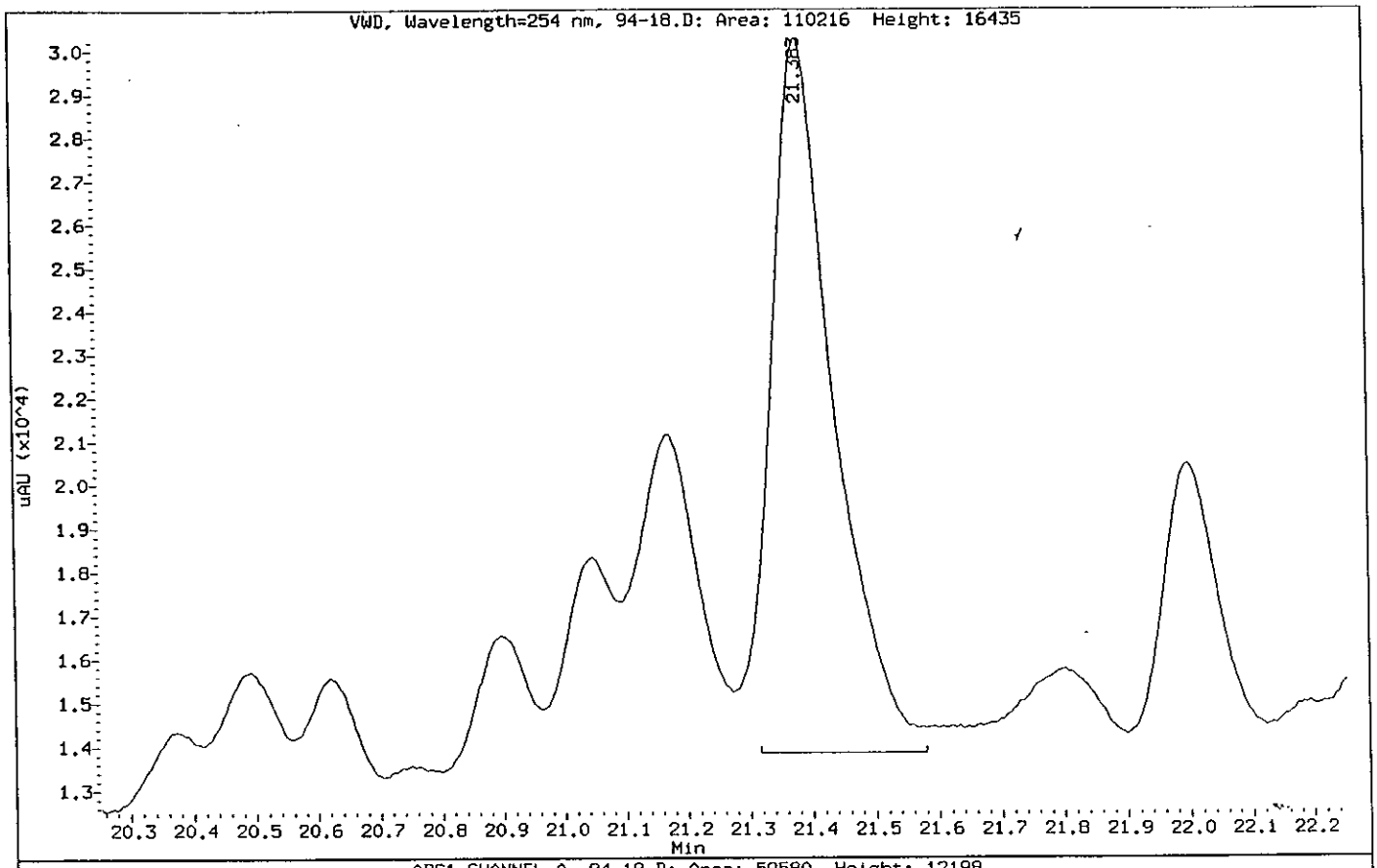


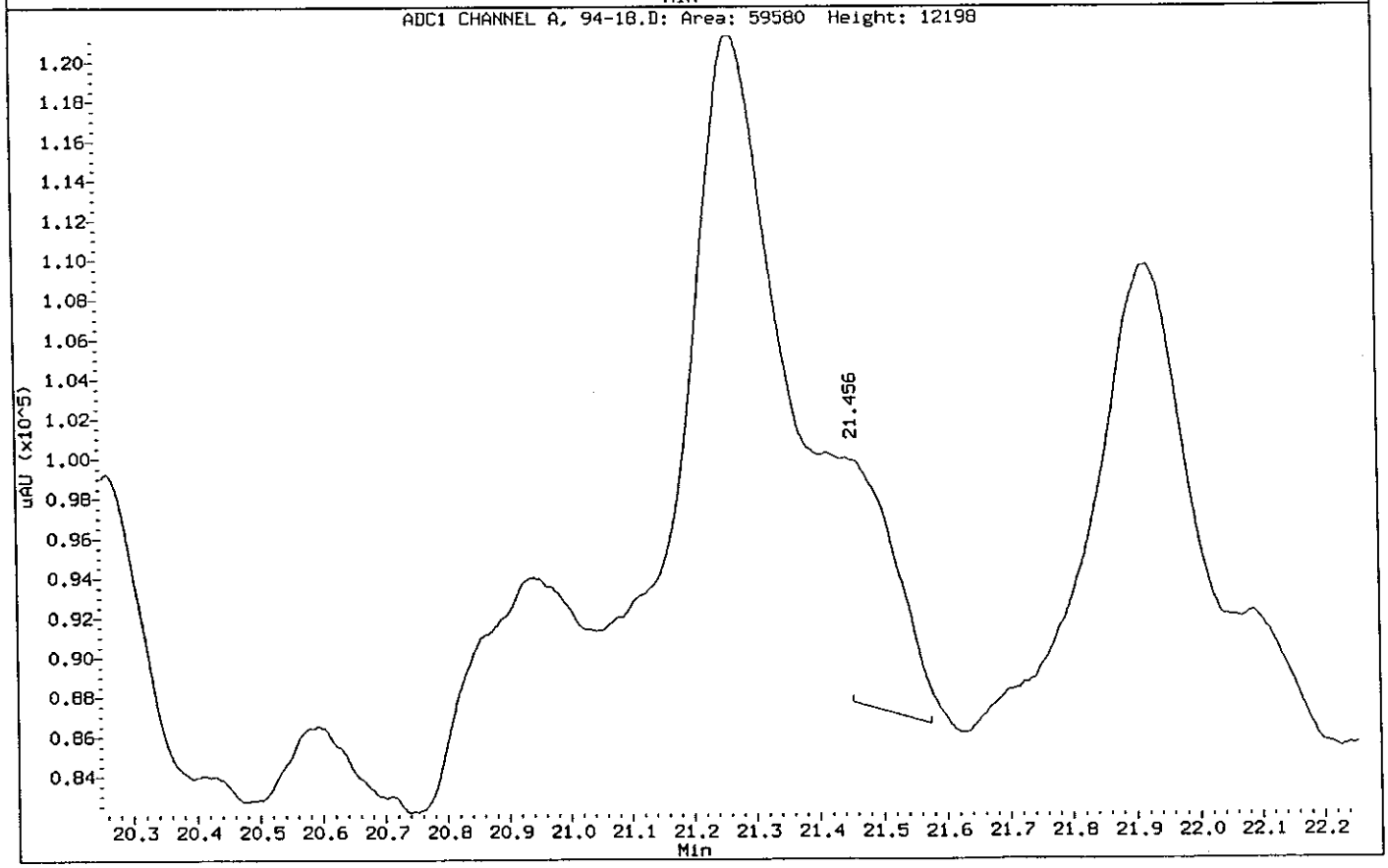


JMD

Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-18.D
Injection Date: 29-OCT-2001 02:00
Instrument: slc02.i
Client Sample ID: 062DUP1S101801

Compound: Benzo(b)Fluoranthene
CAS Number: 205-99-2





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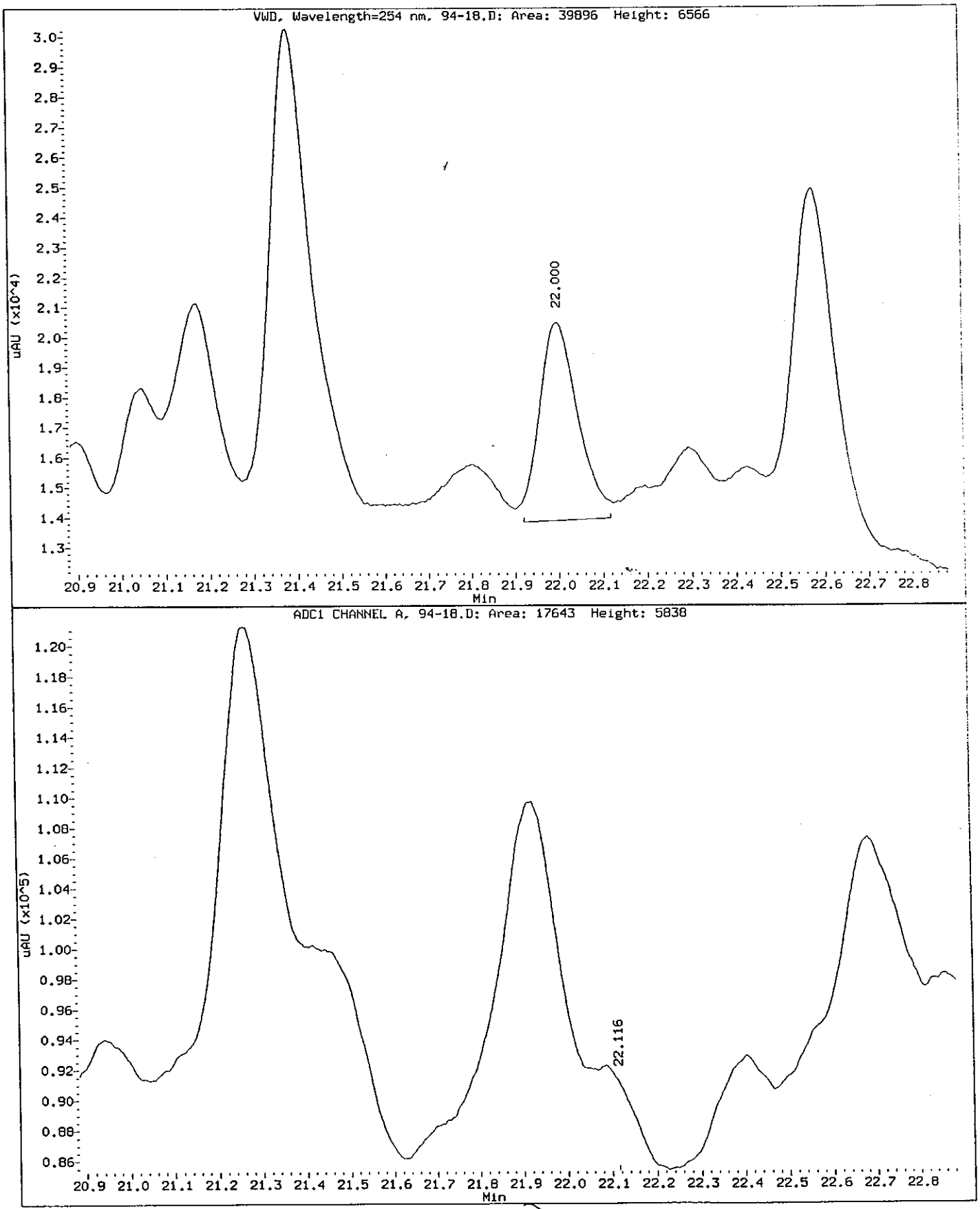
Injection Date: 29-OCT-2001 02:00
Instrument: slc02.i
Client Sample ID: 062DUP15101801

Compound: Benzo(k)Fluoranthene
CAS Number: 207-08-9



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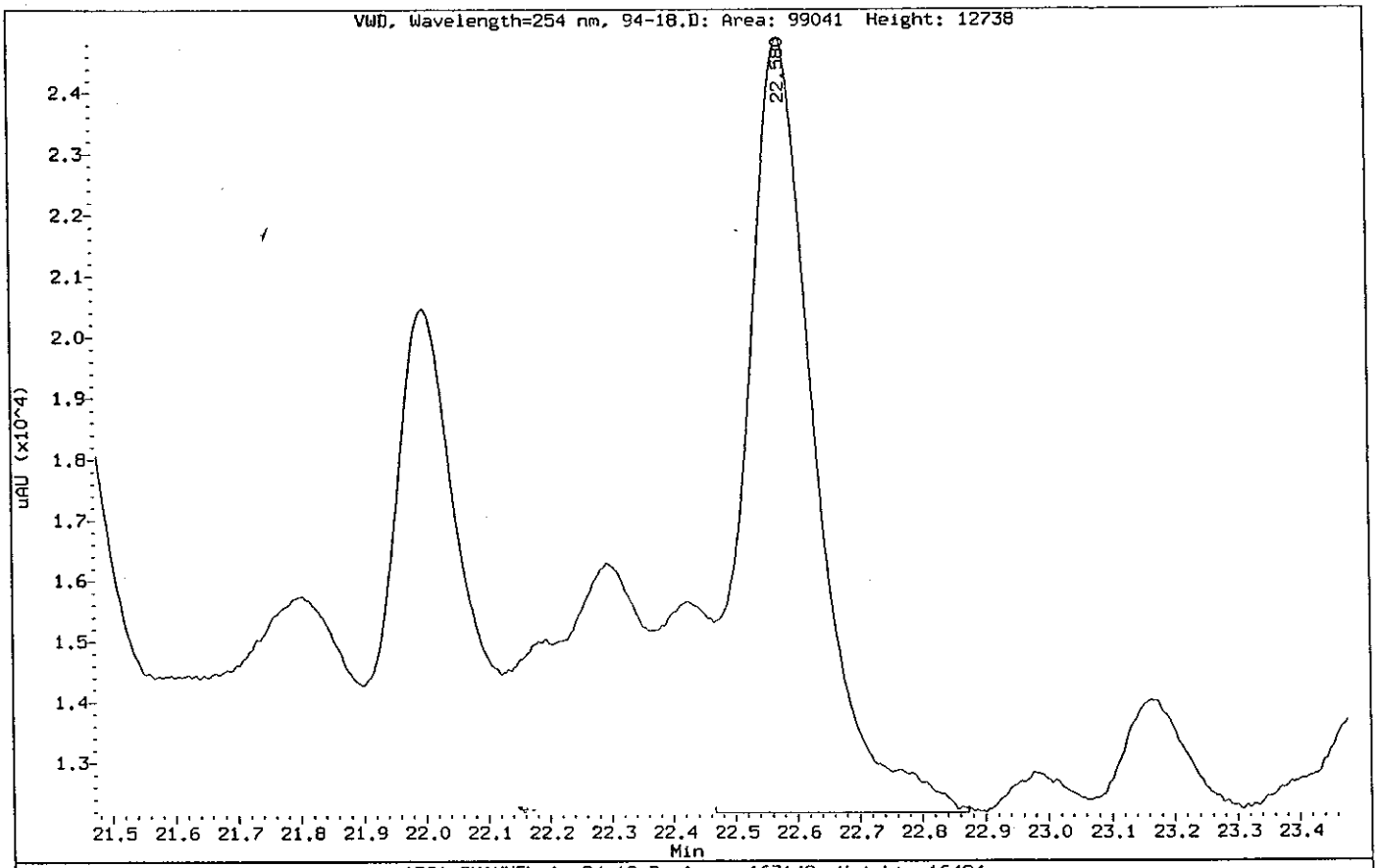
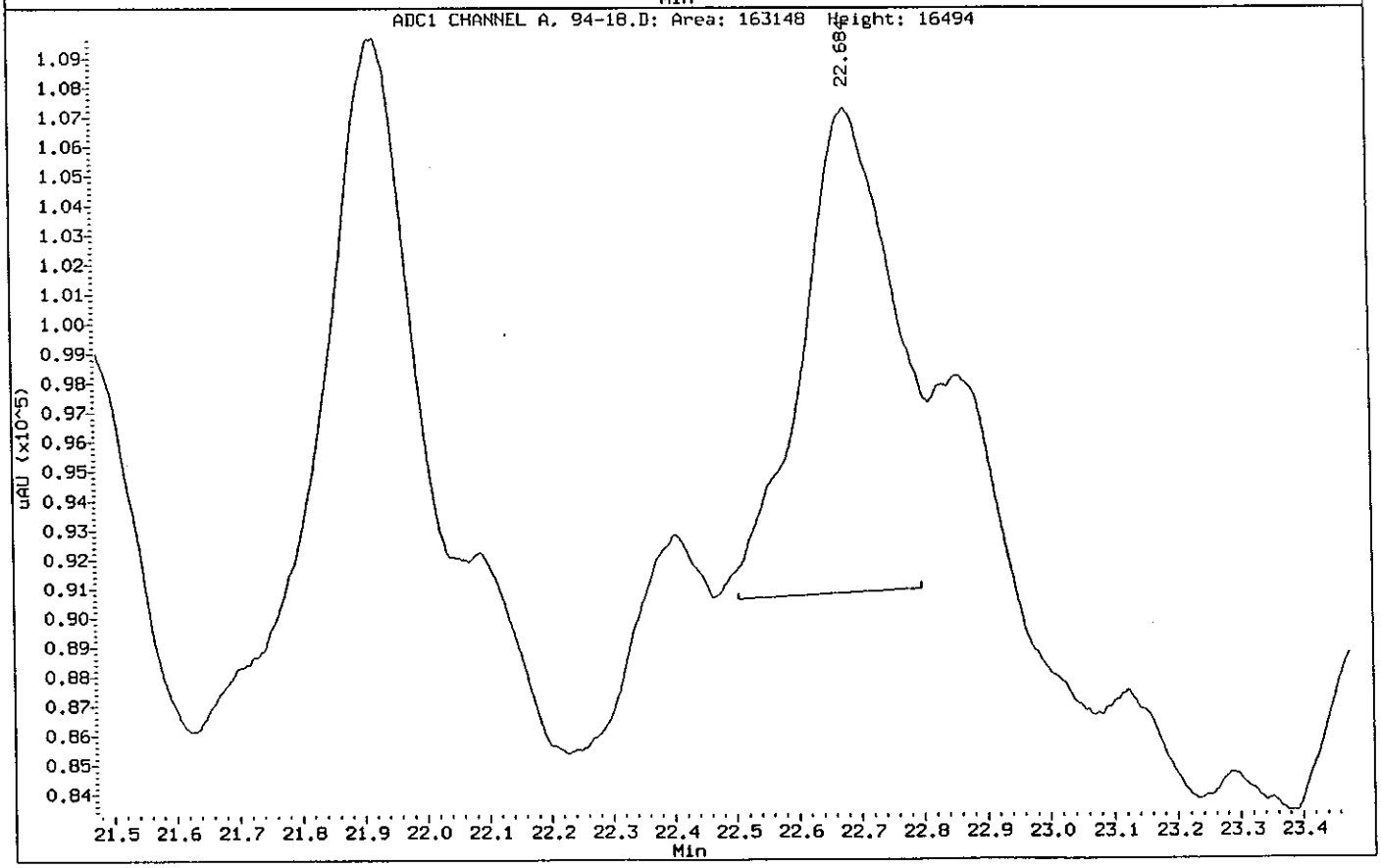
Instrument: slc02.i
Client Sample ID: 062DUP1S101801

Compound: Benzo(a)pyrene
CAS Number: 50-32-8





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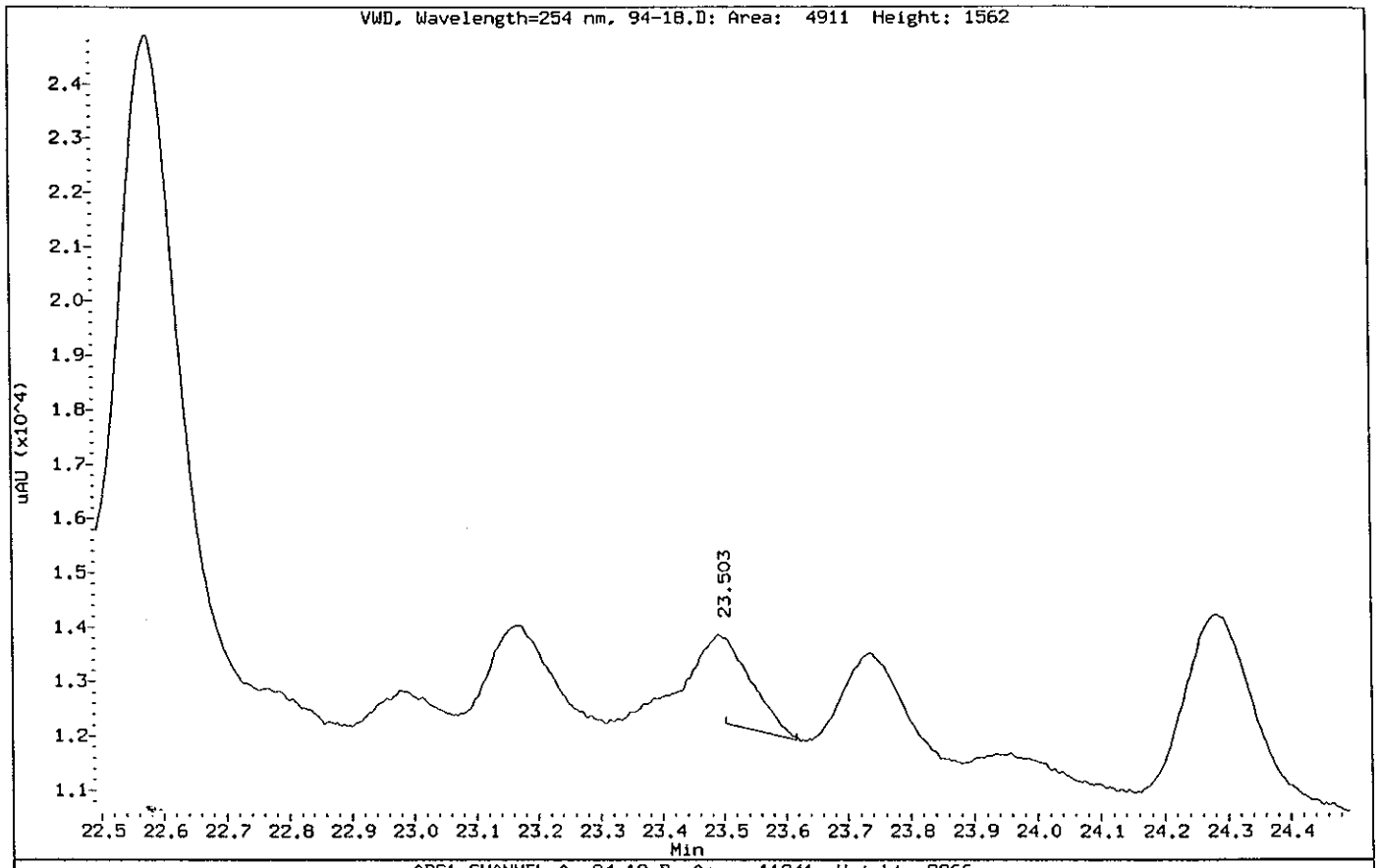
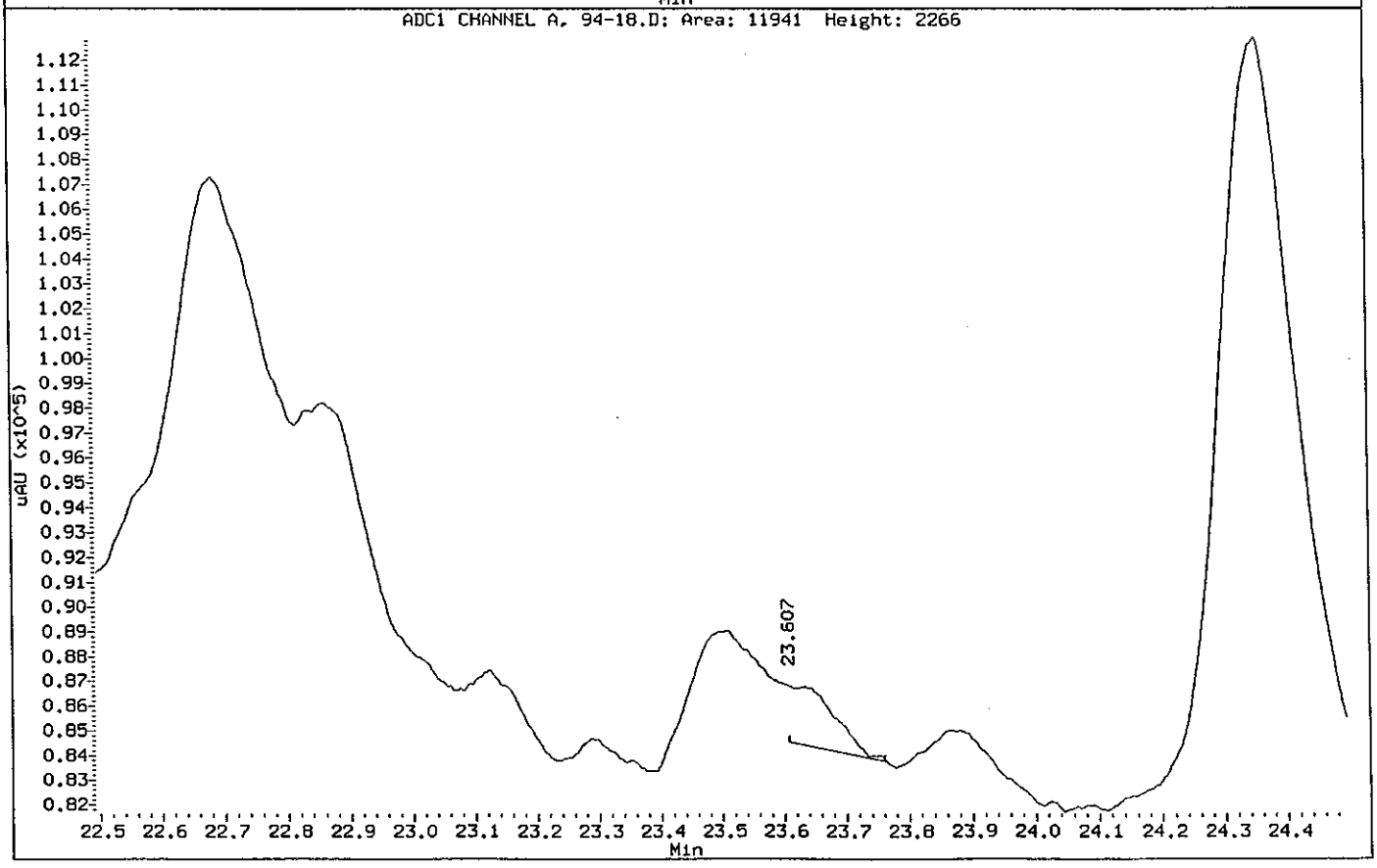
Injection Date: 29-OCT-2001 02:00
Instrument: slc02.i
Client Sample ID: 062DUP1S101801

Compound: Dibenz(ah)Anthracene
CAS Number: 53-70-3





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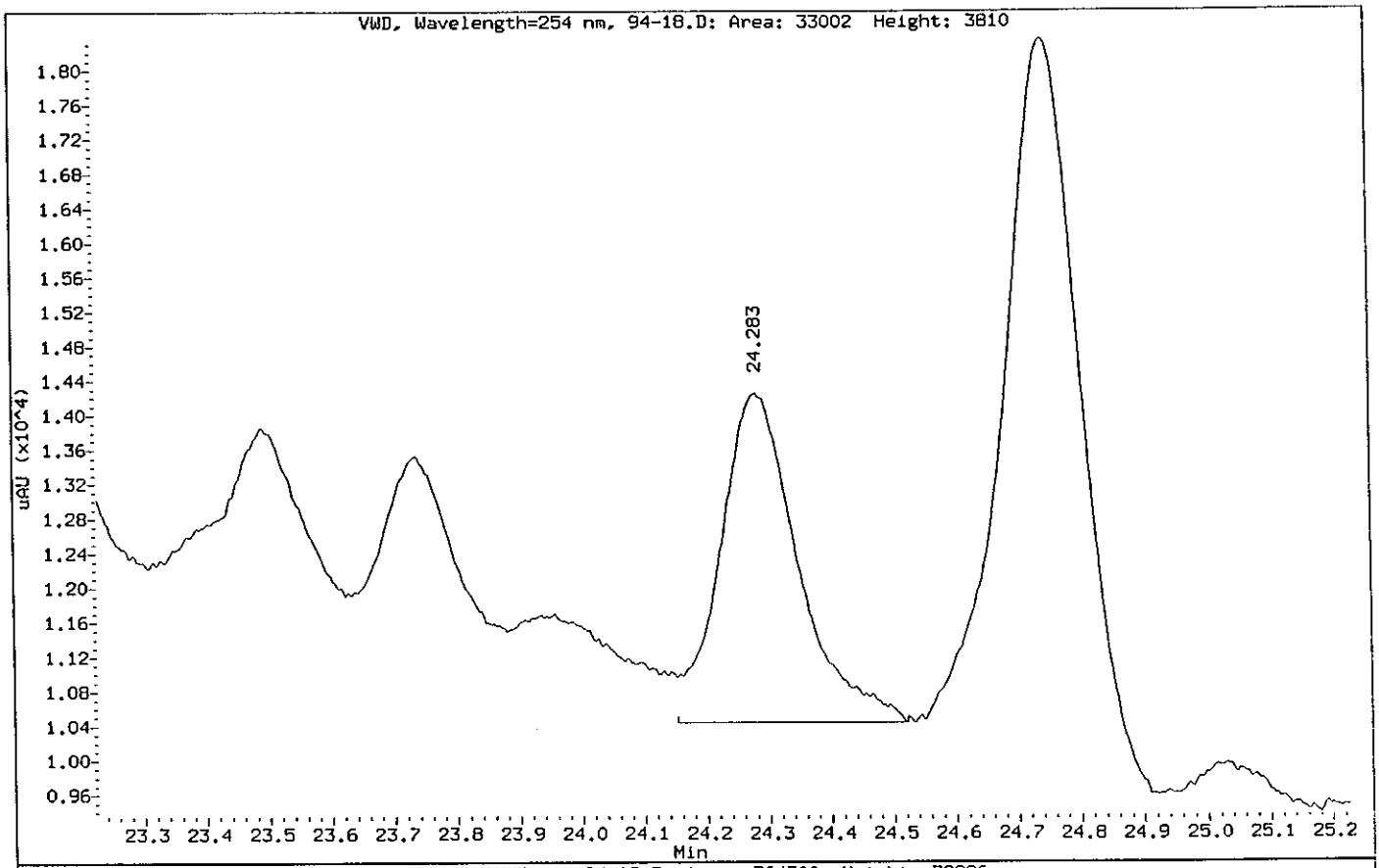
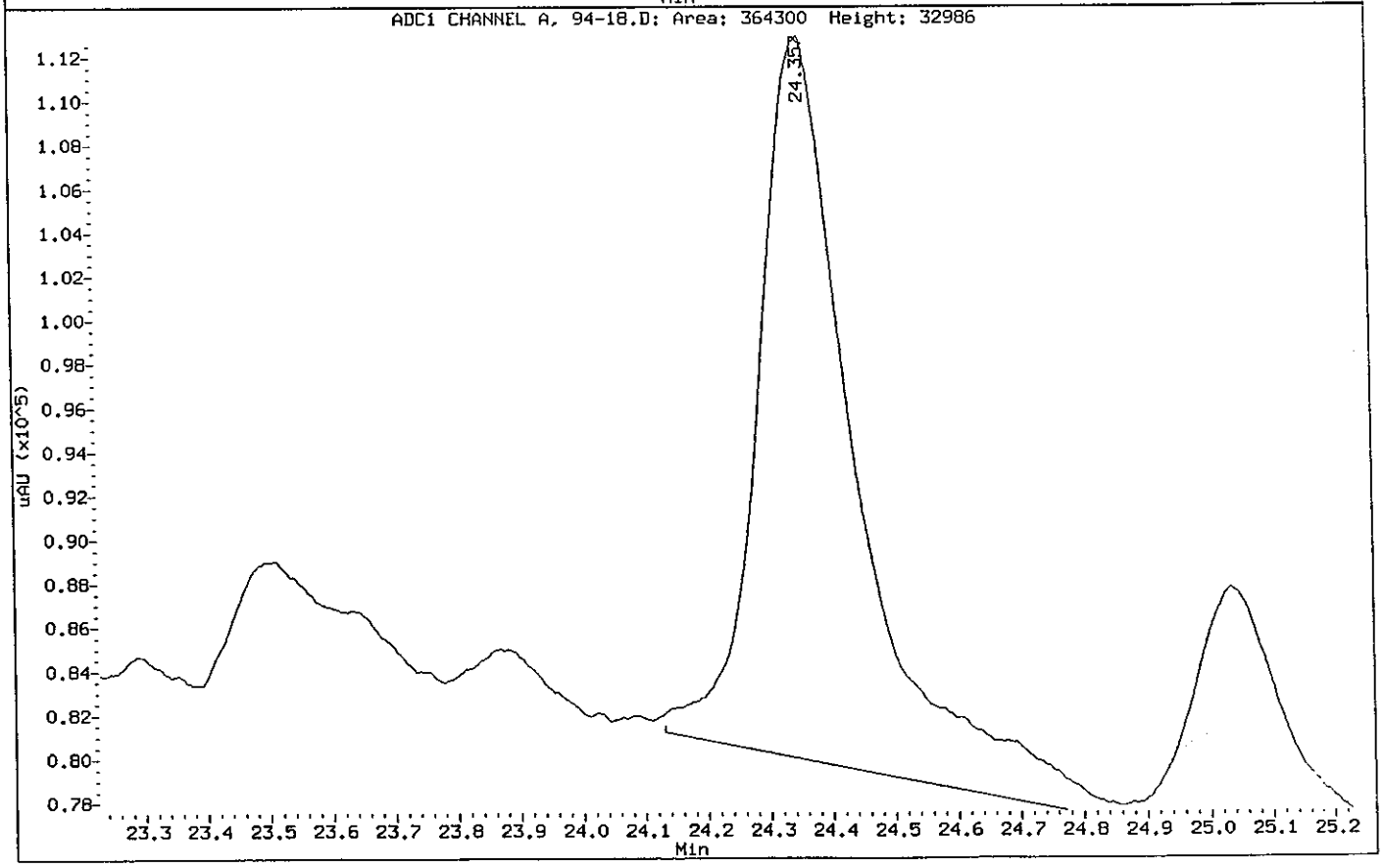
Injection Date: 29-OCT-2001 02:00
Instrument: slc02.i
Client Sample ID: 062DUP1S101801

Compound: Benzo(ghi)Perylene
CAS Number: 191-24-2





JMD

PEL Laboratories

Data file : \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-19.D
Lab Smp Id: 211009419 Client Smp ID: 062DUP2S101801
Inj Date : 29-OCT-2001 02:34
Operator : rood Inst ID: slc02.i
Smp Info : 211009419
Misc Info :
Comment :
Method : \\SVHPLC\ee\chem\slc02.i\L21028R1.b\8310S.m
Meth Date : 02-Nov-2001 08:36 jdonnelly Quant Type: ISTD
Cal Date : 28-OCT-2001 20:26 Cal File: PT2UGML.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: navy50.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	32.700	Extracted weight
M	14.176	% Moisture
Vf	1.000	Final Volume

RT	EXP RT	REL RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO
* 1 Carbazole (ISTD)						CAS #: 86-74-8		
11.366	10.610	(1.000)	VWD1A	248212			80.00- 120.00	100.00(M)
11.455	10.610	(1.008)	ADC1A	2043677	10.0000		652.03- 978.05	823.36
2 Naphthalene						CAS #: 91-20-3		
12.363	11.770	(1.088)	VWD1A	1998	0.34442	12.3	80.00- 120.00	100.00(aM)
12.447	11.770	(1.095)	ADC1A	1730	0.27519	9.8	82.40- 123.60	86.59
3 Acenaphthylene						CAS #: 208-96-8		
13.550	13.013	(1.192)	VWD1A	999	0.23434	8.4		(aM)
5 2-Methyl naphthalene						CAS #: 91-57-6		
14.393	13.973	(1.266)	VWD1A	4819	0.97289	34.7	80.00- 120.00	100.00(aM)
14.490	13.973	(1.275)	ADC1A	8133	0.74274	26.5	191.55- 287.32	168.77

RT	EXP RT	REL RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	CONCENTRATIONS FINAL (ug/kg)	TARGET RANGE	RATIO
6 Acenaphthene						CAS #: 83-32-9		
14.820	14.310	(1.304)	VWD1A	1379	0.61427	21.9	80.00- 120.00	100.00(aM)
14.915	14.310	(1.312)	ADC1A	14353	0.55781	19.9	964.12-1446.17	1040.83
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.780	18.593	(1.652)	VWD1A	248778	16.2373	578	80.00- 120.00	100.00
18.873	18.593	(1.660)	ADC1A	6888733	16.4267	585	2246.35-3369.53	2769.03
17 Benzo(a)pyrene						CAS #: 50-32-8		
22.556	22.476	(1.984)	VWD1A	8108	0.20414	7.3	80.00- 120.00	100.00(aMH)
22.680	22.476	(1.995)	ADC1A	28289	0.42635	15.2	138.13- 207.19	348.90
19 Benzo(ghi)Perylene						CAS #: 191-24-2		
24.276	24.226	(2.136)	VWD1A	5391	0.35888	12.8	80.00- 120.00	100.00(aM)
24.343	24.226	(2.142)	ADC1A	16425	0.53984	19.2	155.32- 232.98	304.67

QC Flag Legend

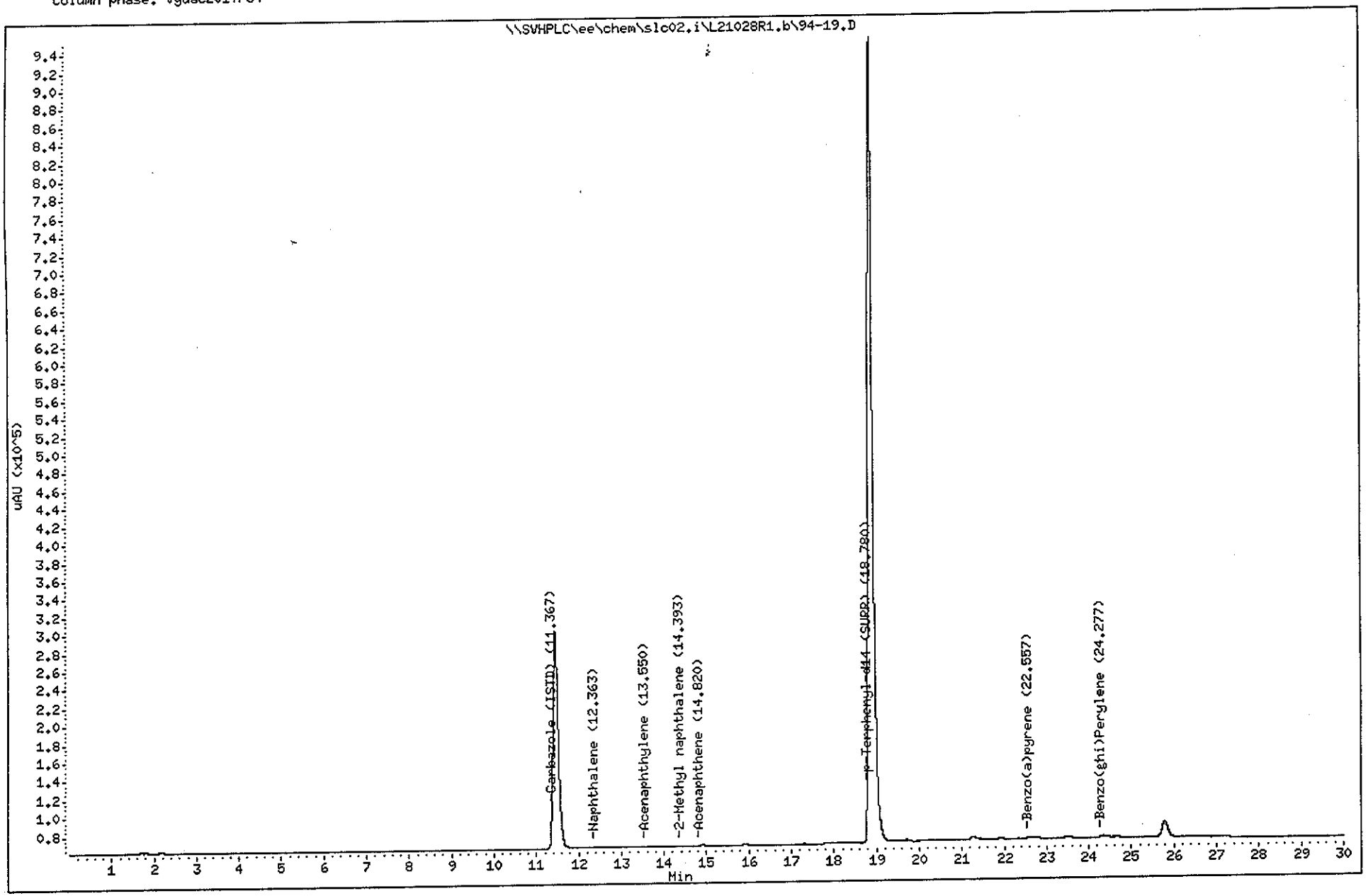
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-19.D
Date : 29-OCT-2001 02:34
Client ID: 062DUP2S101801
Sample Info: 211009419

Instrument: slc02.i

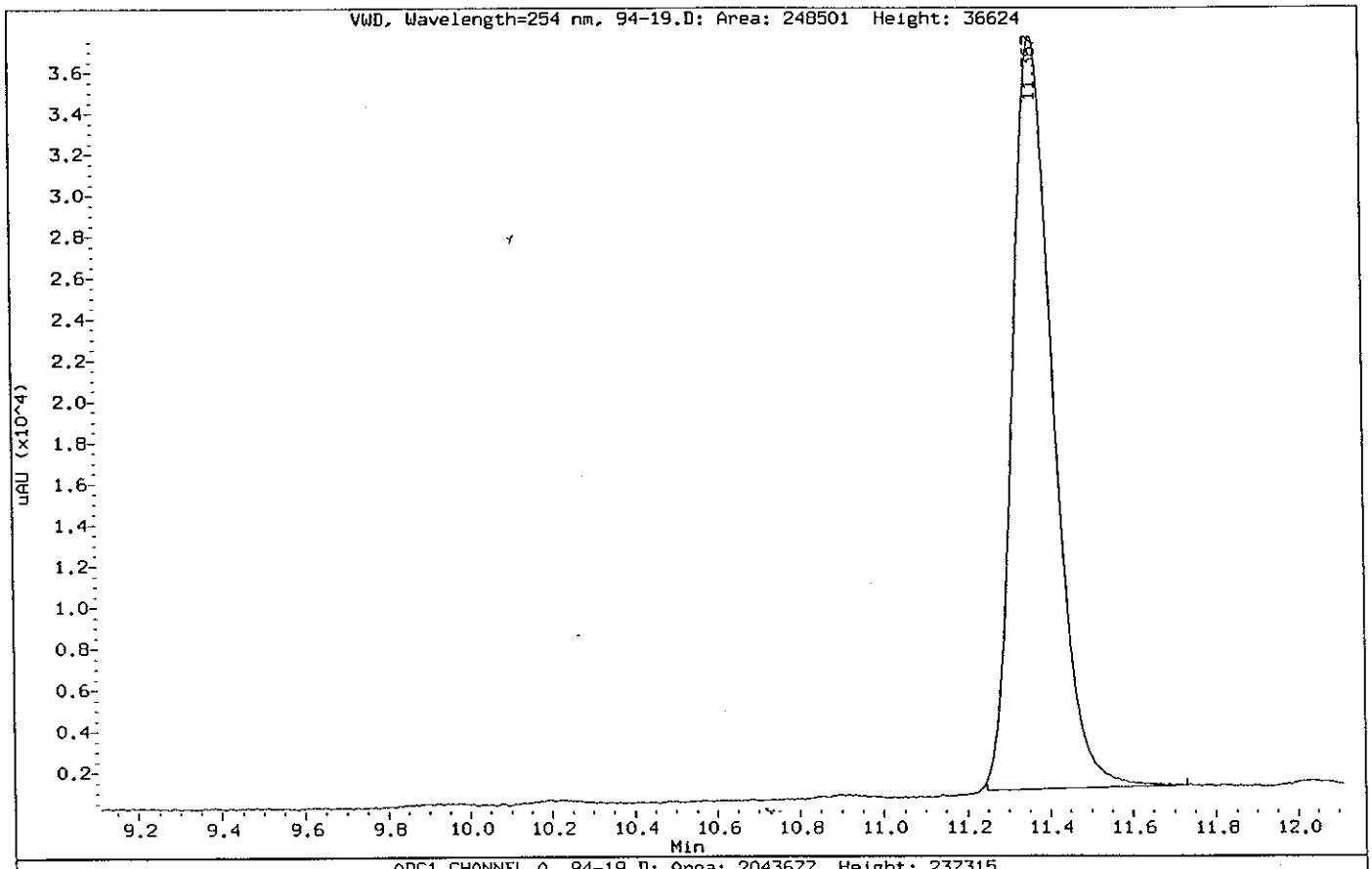
Operator: rood
Column diameter: 4.60

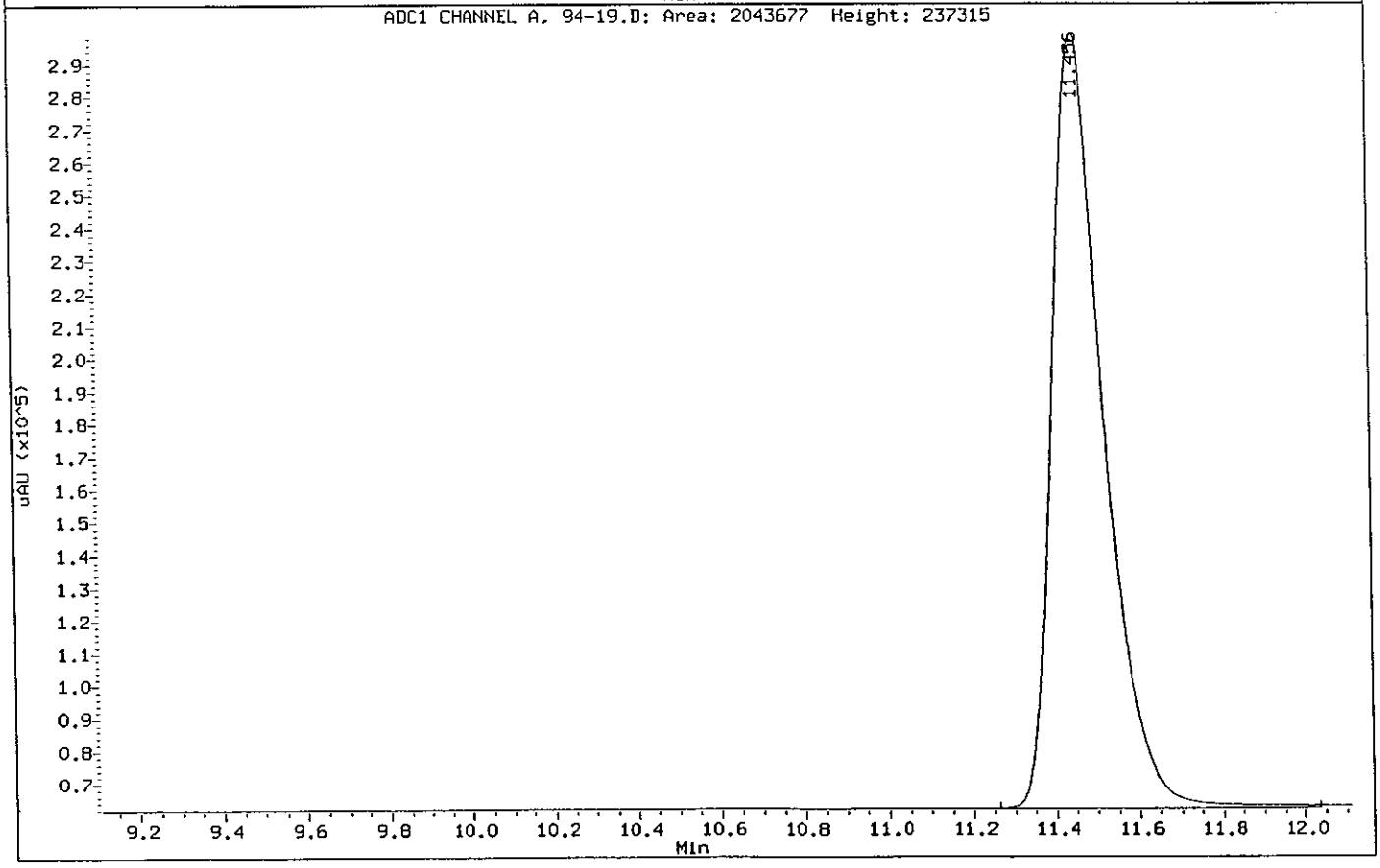
Column phase: Vydac201TP54



Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-19.D
Injection Date: 29-OCT-2001 02:34
Instrument: slc02.i
Client Sample ID: 062DUP2S101801

Compound: Carbazole (ISTD)
CAS Number: 86-74-8

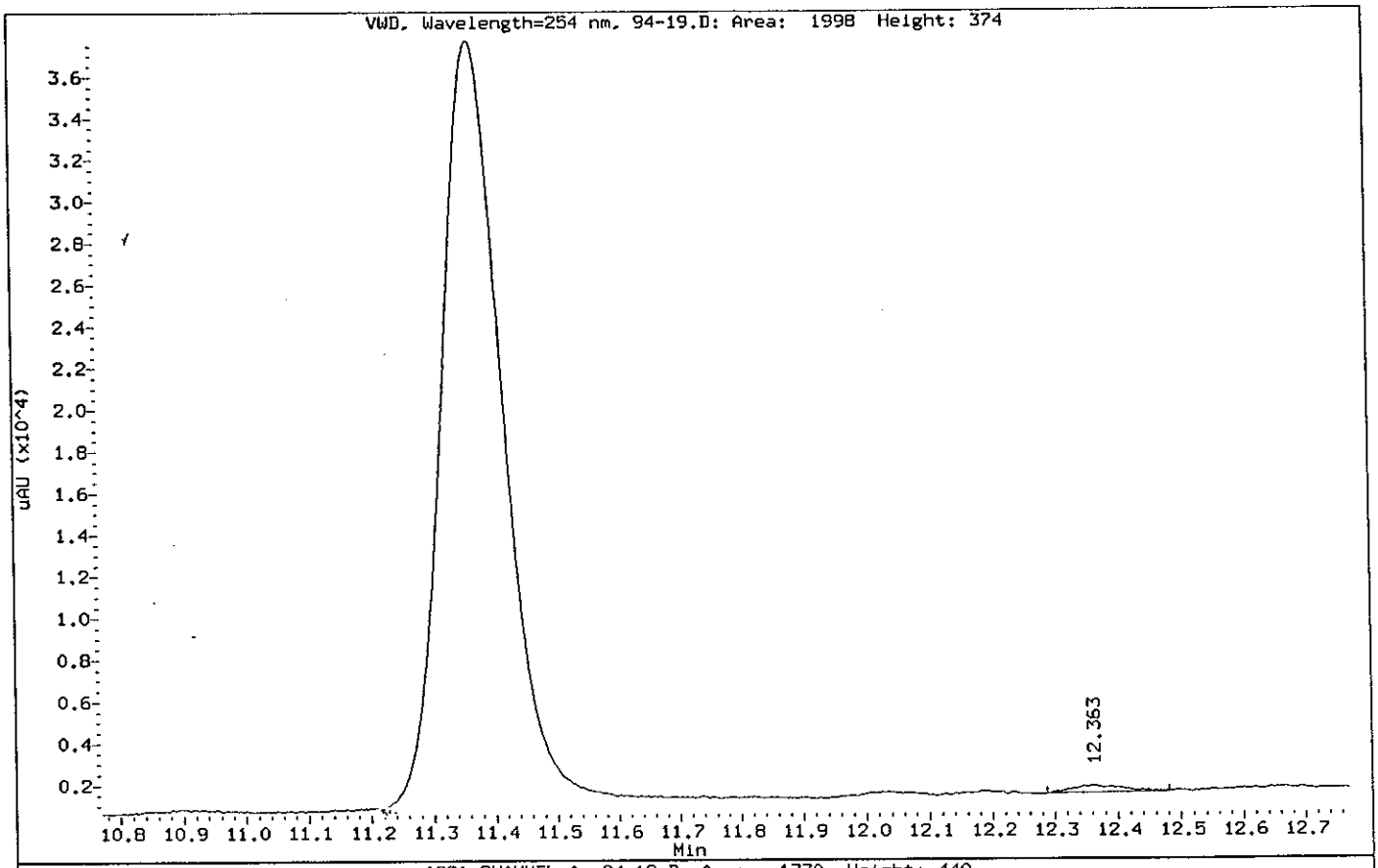


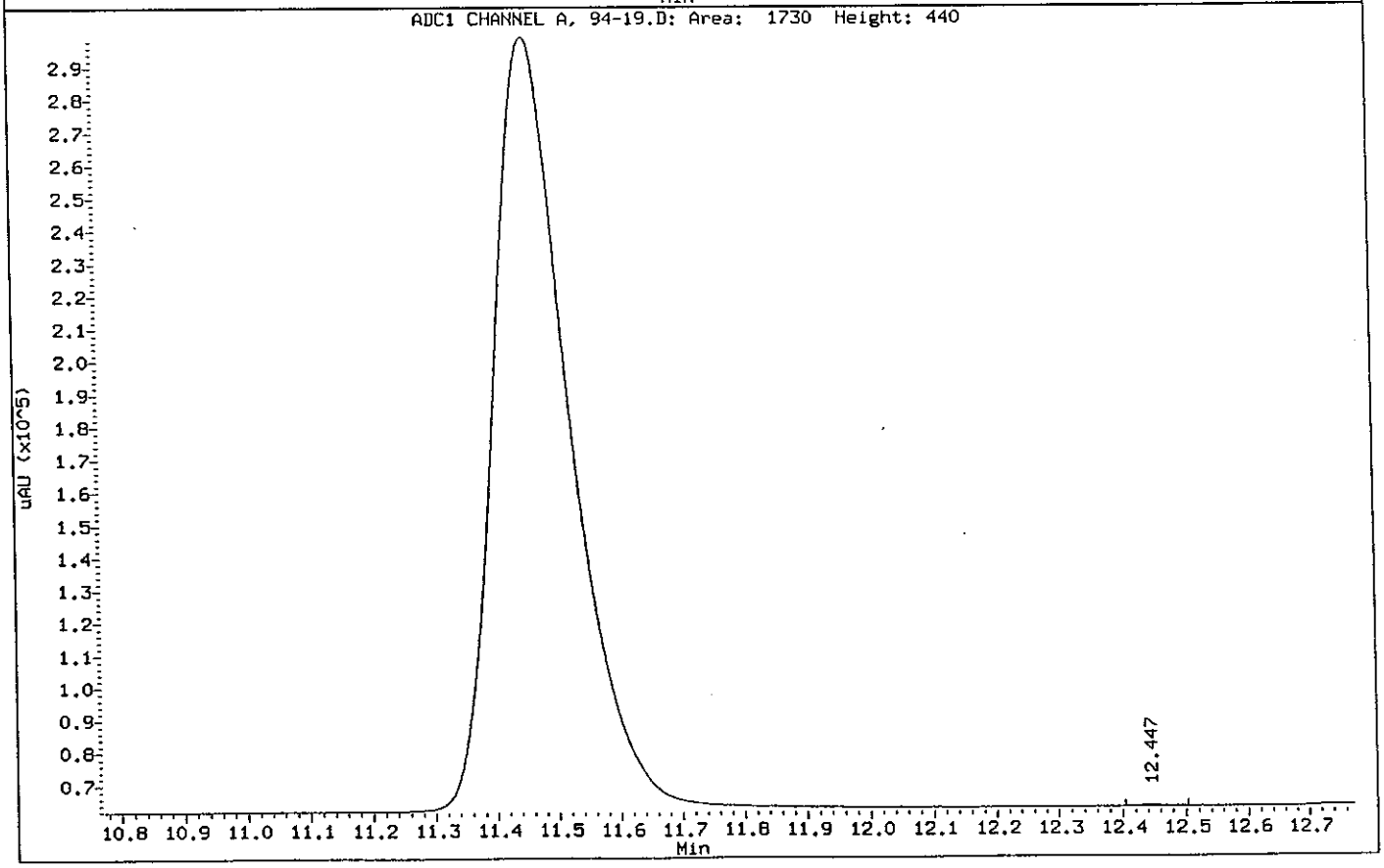


JMD

Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-19.D
Injection Date: 29-OCT-2001 02:34
Instrument: slc02.i
Client Sample ID: 062DUP2S101801

Compound: Naphthalene
CAS Number: 91-20-3

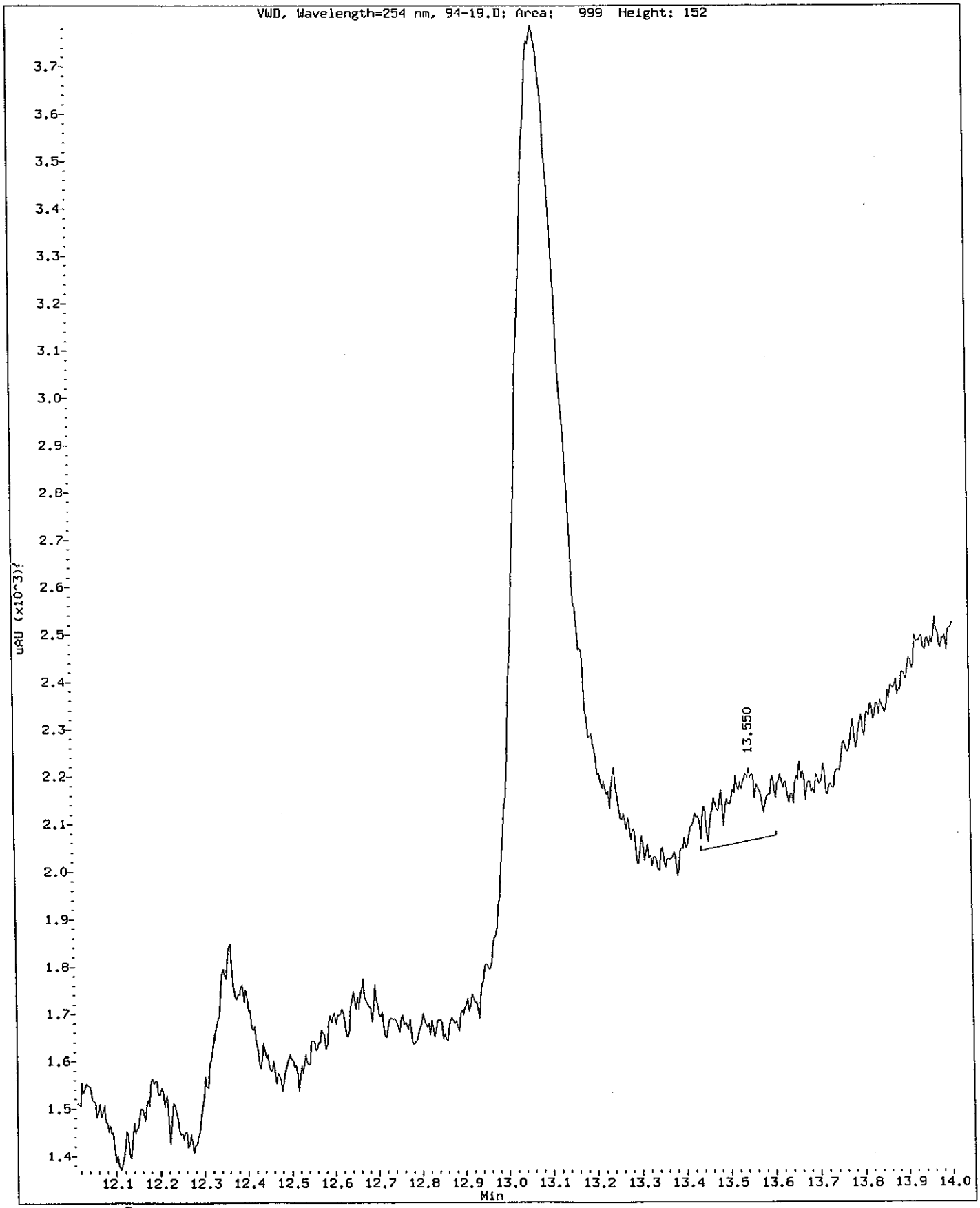




FWD

Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-19.D
Injection Date: 29-OCT-2001 02:34
Instrument: slc02.i
Client Sample ID: 062DUP2S101801

Compound: Acenaphthylene
CAS Number: 208-96-8



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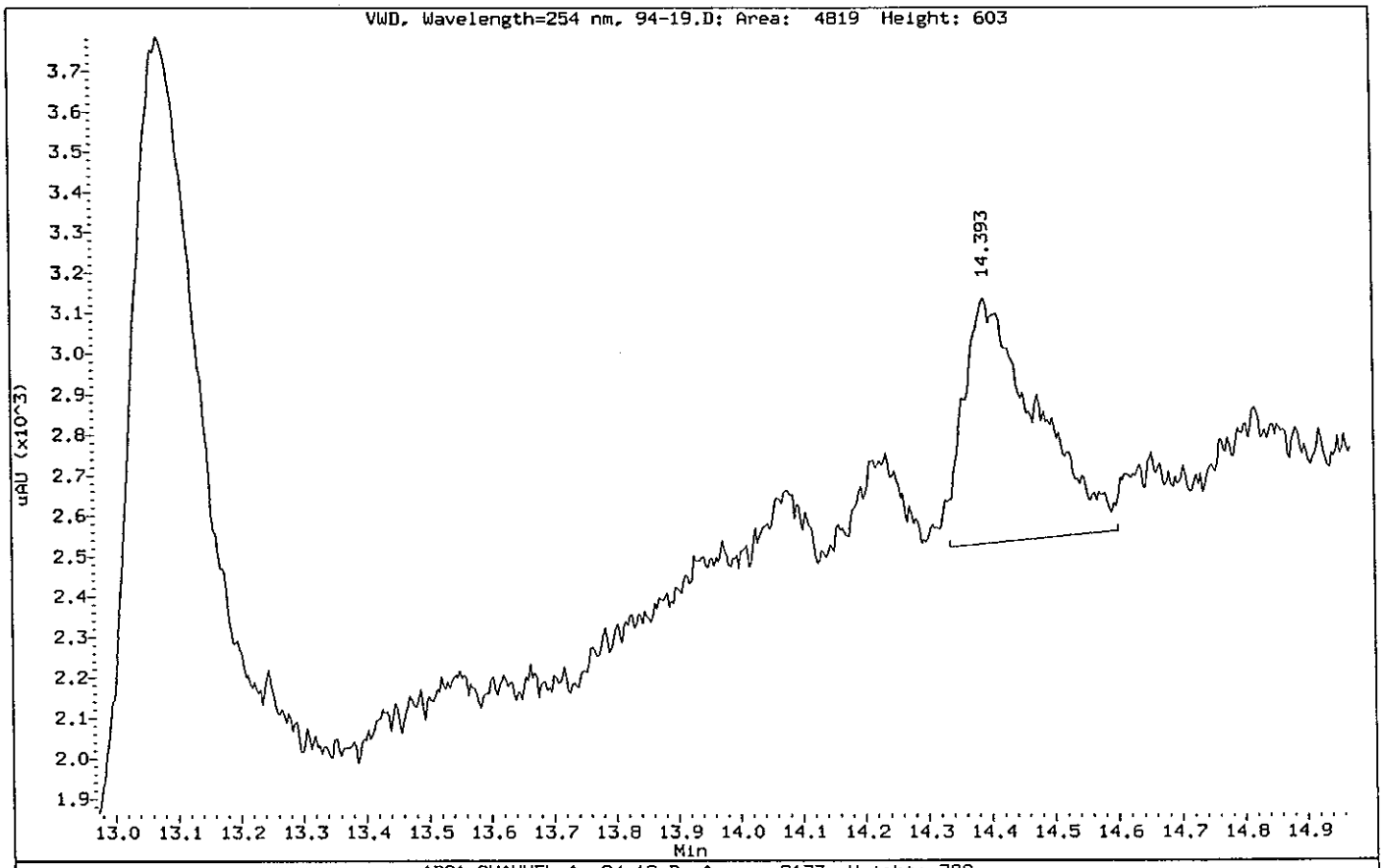
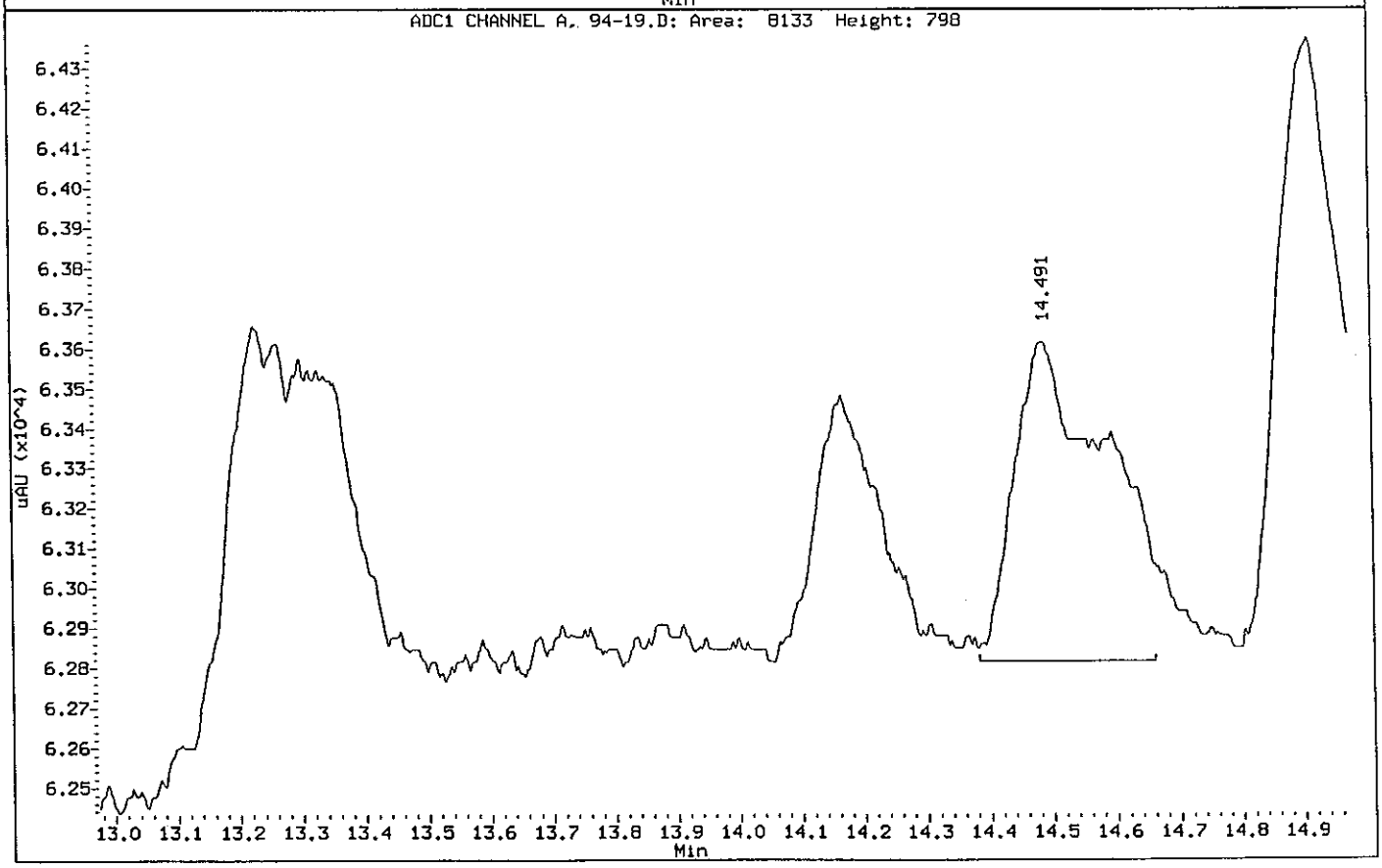
Injection Date: 29-OCT-2001 02:34
Instrument: slc02.i
Client Sample ID: 062DUP25101801

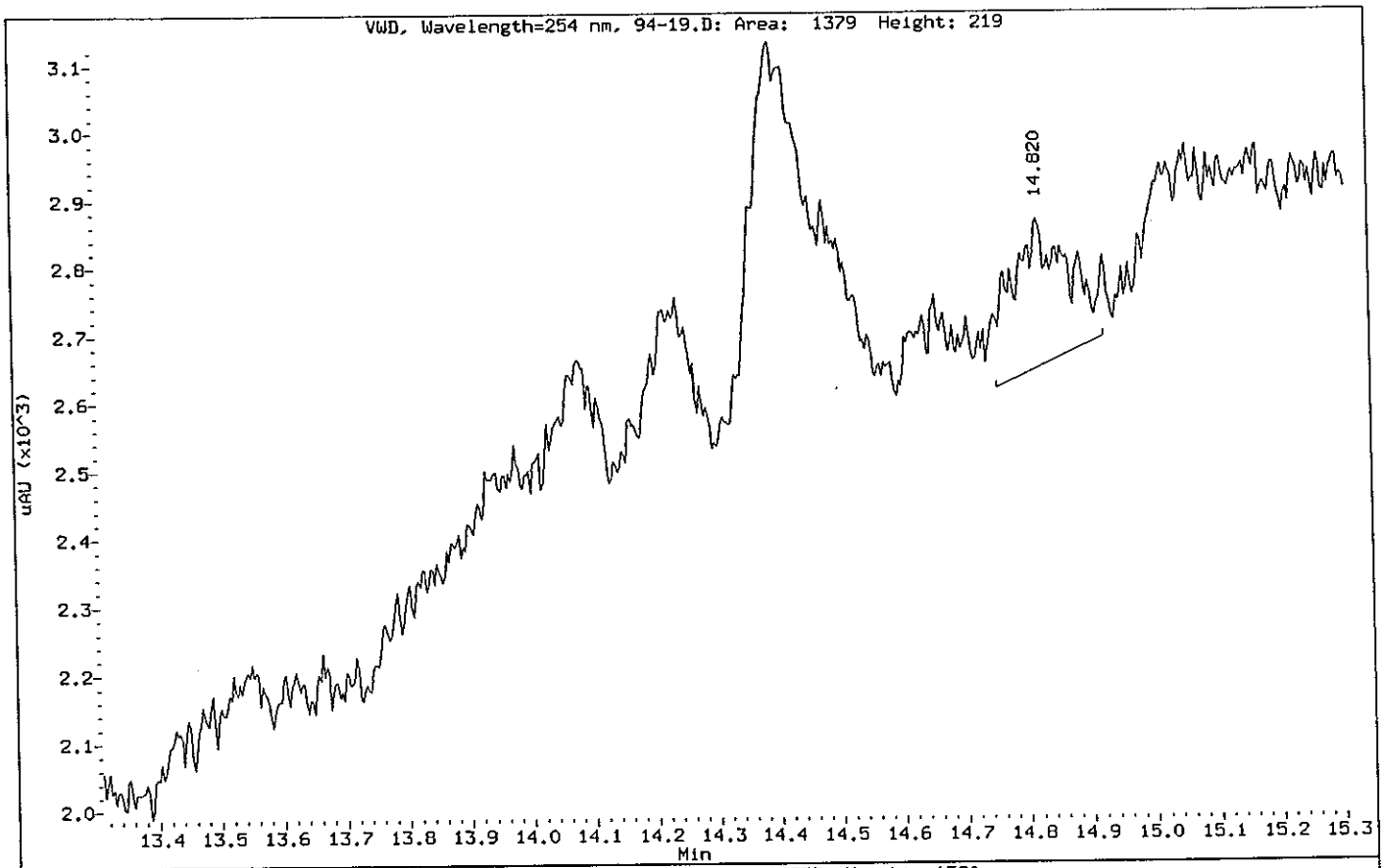
Compound: 2-Methyl naphthalene
CAS Number: 91-57-6

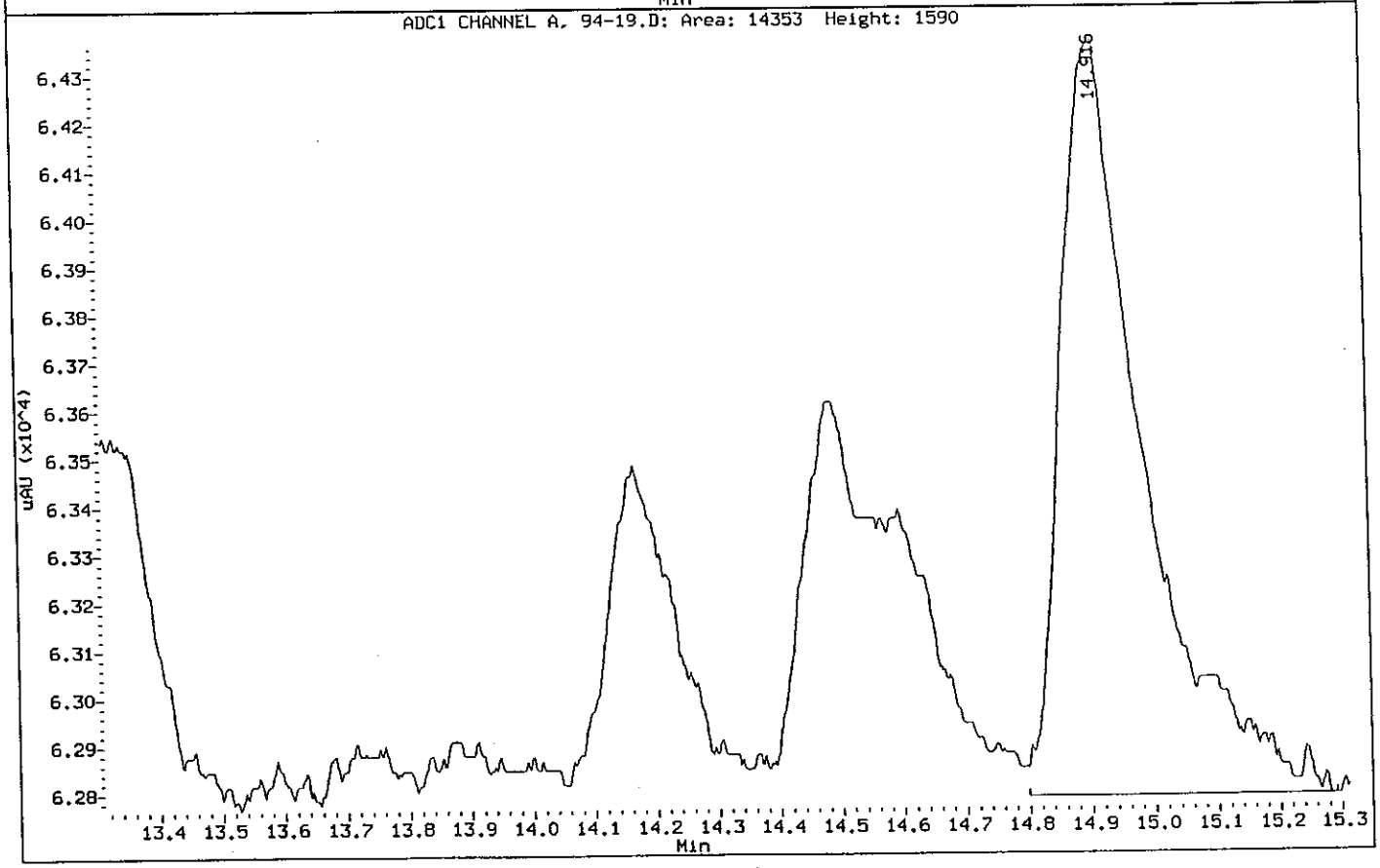




Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-19.D
Injection Date: 29-OCT-2001 02:34
Instrument: slc02.i
Client Sample ID: 062DUP2S101801

Compound: Acenaphthene
CAS Number: 83-32-9





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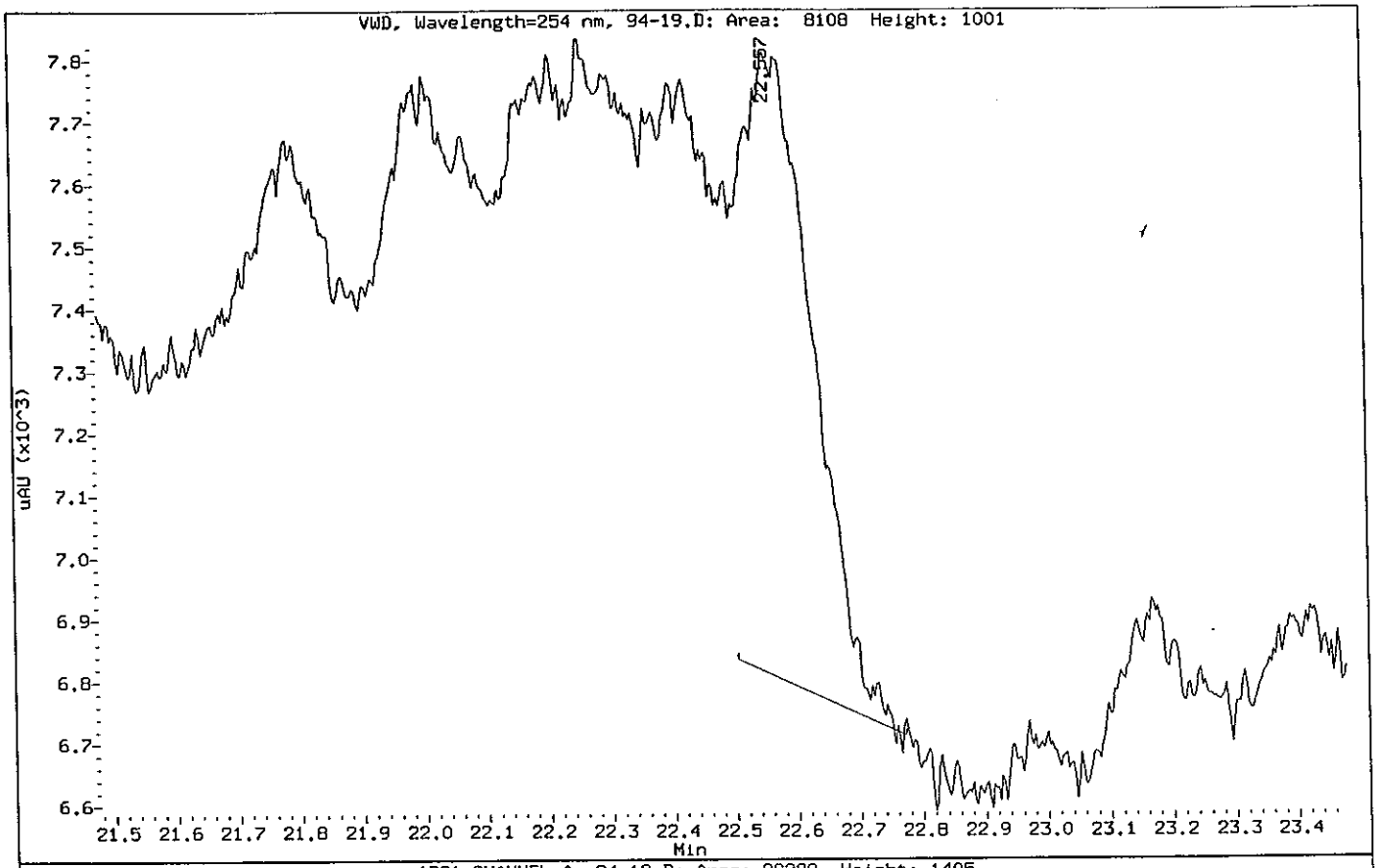
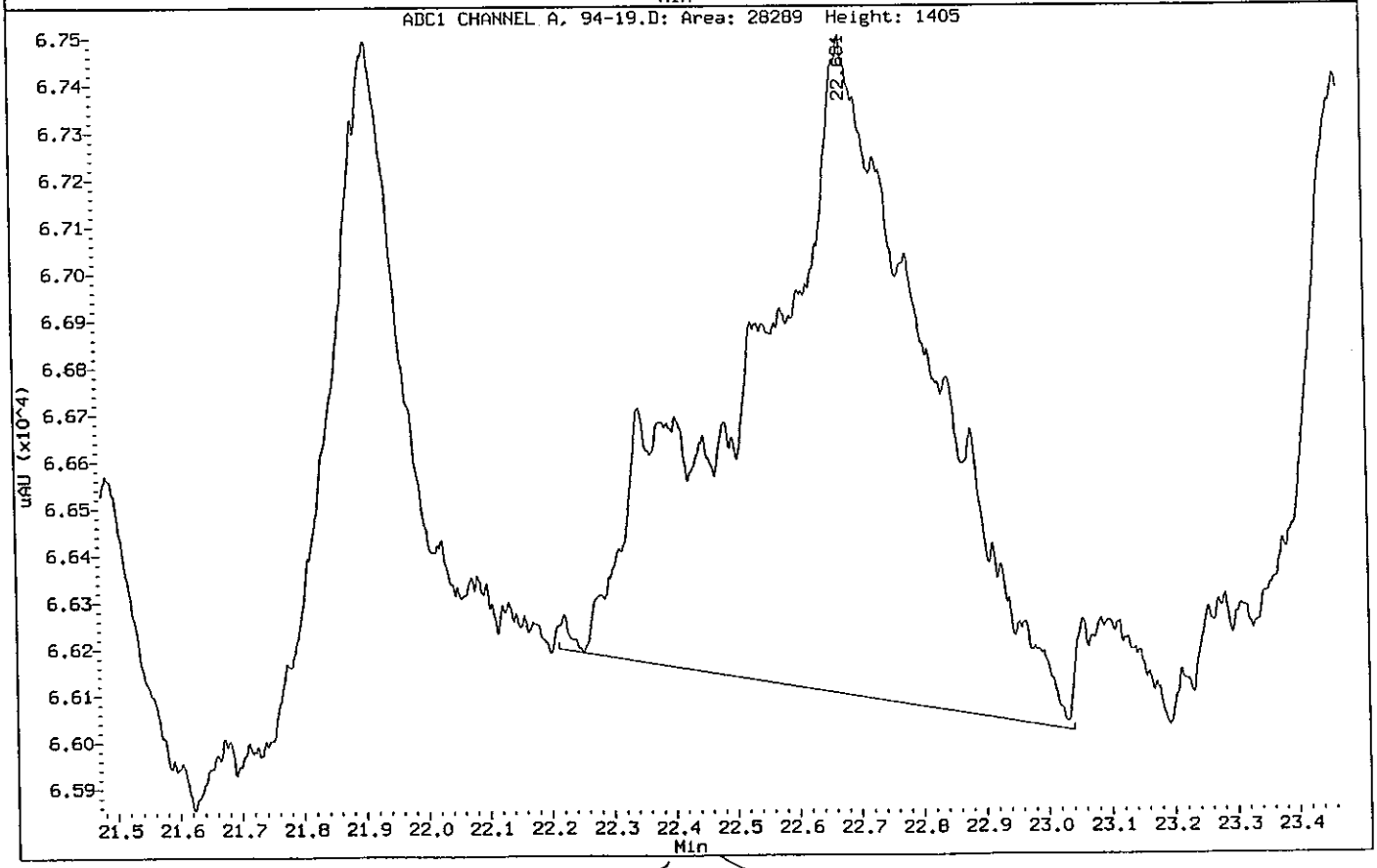
Injection Date: 29-OCT-2001 02:34
Instrument: slc02.i
Client Sample ID: 062DUP2S101801

Compound: Benzo(a)pyrene
CAS Number: 50-32-8





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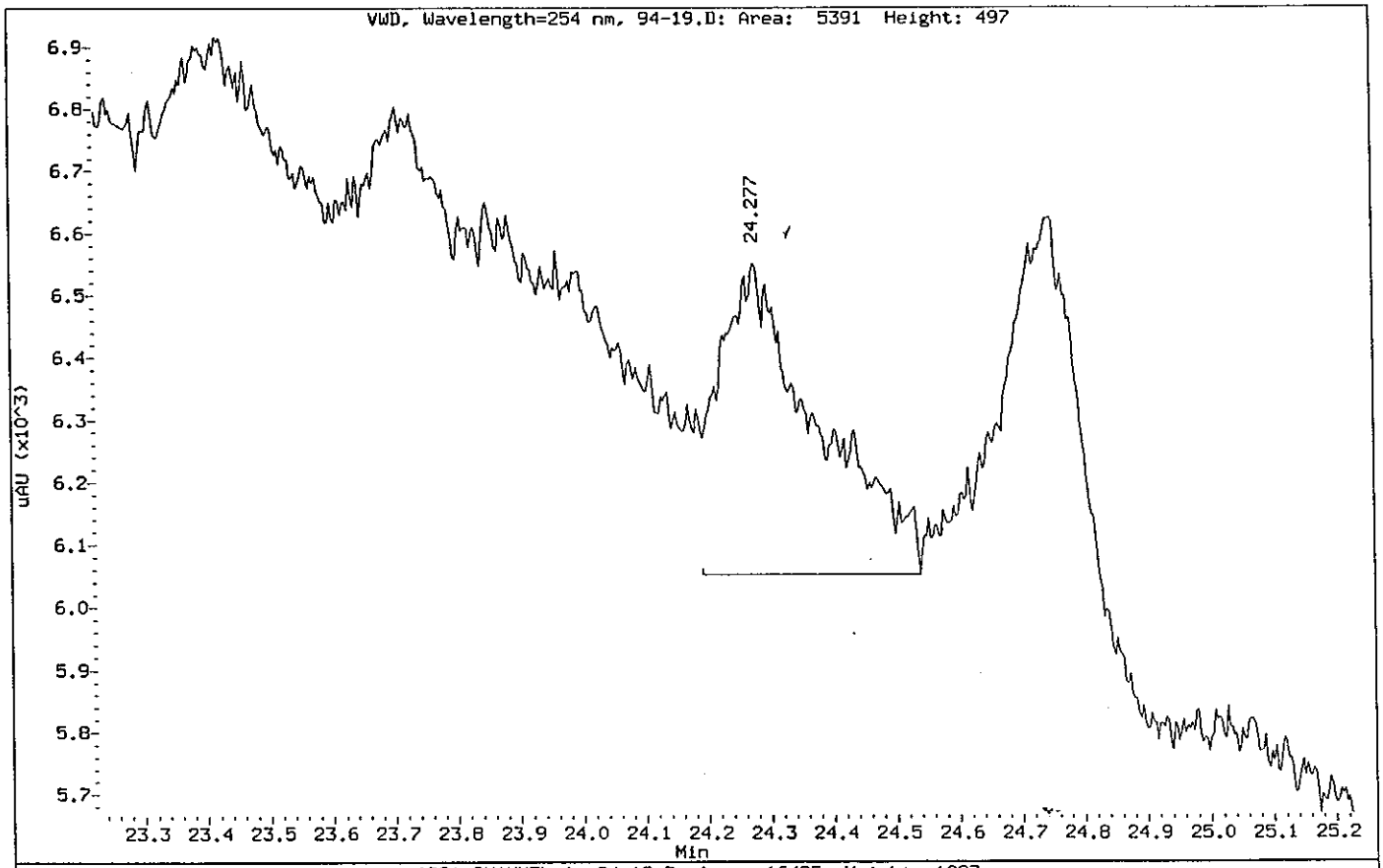
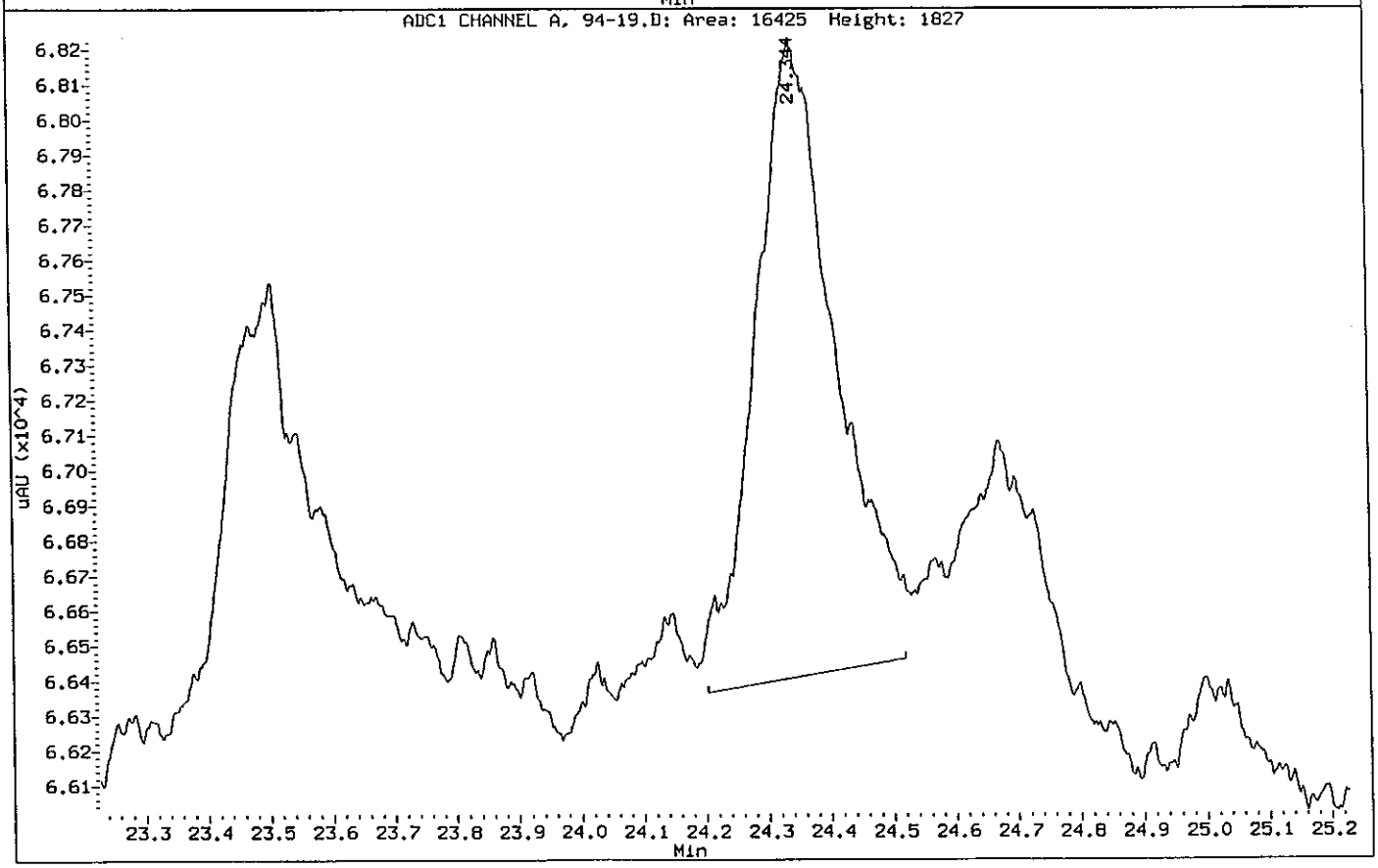
Injection Date: 29-OCT-2001 02:34
Instrument: slc02.i
Client Sample ID: 062DUP2S101801

Compound: Benzo(ghi)Perylene
CAS Number: 191-24-2





PEL Laboratories

Data file : \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-01.D
Lab Smp Id: 211009401 Client Smp ID: 062B7S101801
Inj Date : 29-OCT-2001 03:09
Operator : rood Inst ID: slc02.i
Smp Info : 211009401
Misc Info :
Comment :
Method : \\SVHPLC\ee\chem\slc02.i\L21028R1.b\8310S.m
Meth Date : 02-Nov-2001 08:36 jdonnelly Quant Type: ISTD
Cal Date : 28-OCT-2001 20:26 Cal File: PT2UGML.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: navy50.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	32.700	Extracted weight
M	15.482	% Moisture
Vf	1.000	Final Volume

						CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	REL RT	SIGNAL	RESPONSE		(ug/ml)	(ug/kg)	TARGET RANGE	RATIO
* 1 Carbazole (ISTD)								CAS #: 86-74-8	
11.336	10.610	(1.000)	VWD1A	257416				80.00- 120.00	100.00(M)
11.425	10.610	(1.008)	ADC1A	2013152	10.0000			652.03- 978.05	782.06
$ 12 p-Terphenyl-d14 (SURR)								CAS #: 1718-51-0	
18.773	18.593	(1.656)	VWD1A	240526	15.9368		577	80.00- 120.00	100.00
18.868	18.593	(1.664)	ADC1A	6565502	15.8933		575	2246.35-3369.53	2729.64

QC Flag Legend

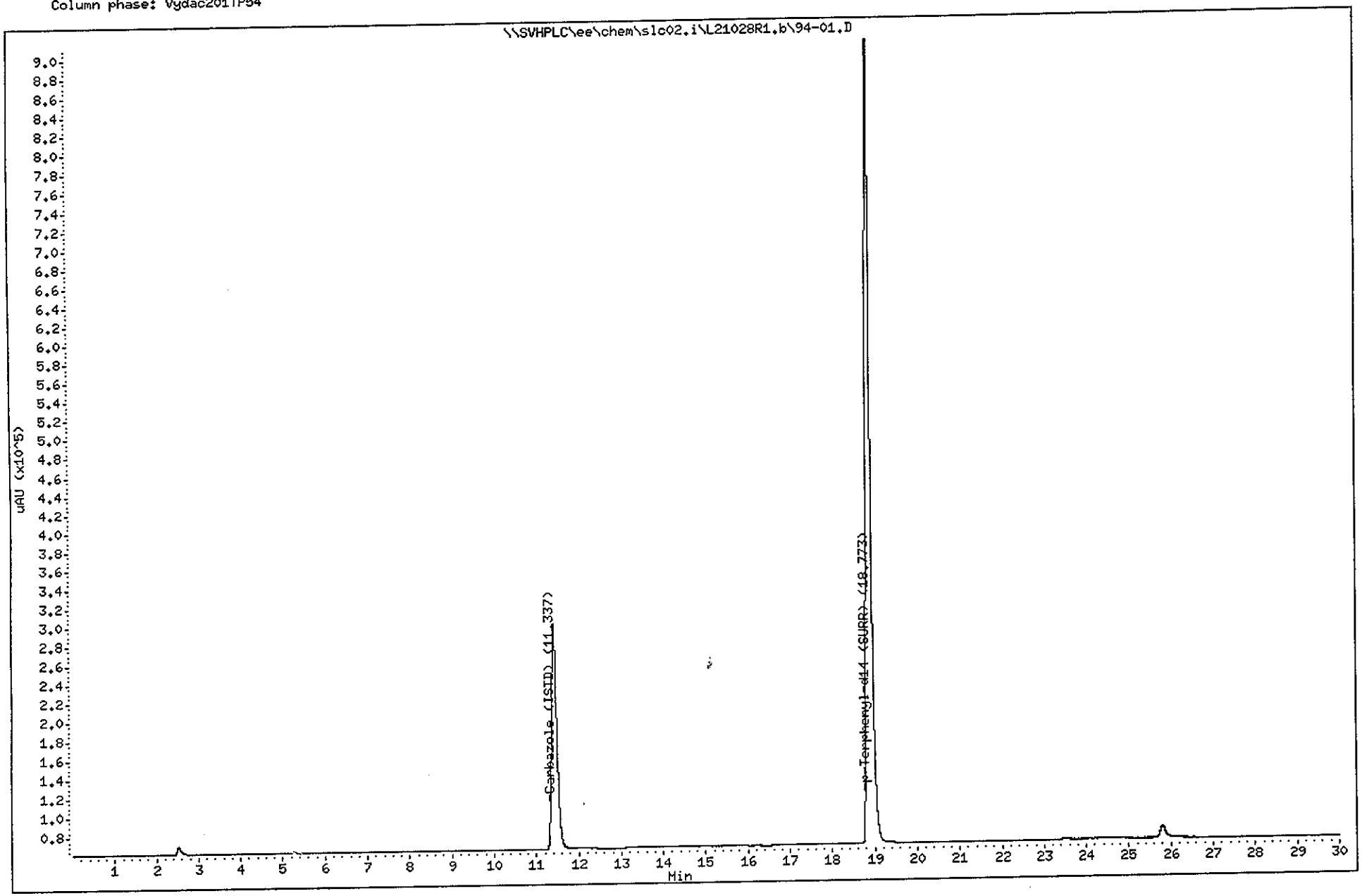
M - Compound response manually integrated.

Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-01.D
Date : 29-OCT-2001 03:09
Client ID: 062B7S101801
Sample Info: 211009401

Column phase: Vydac201TP54

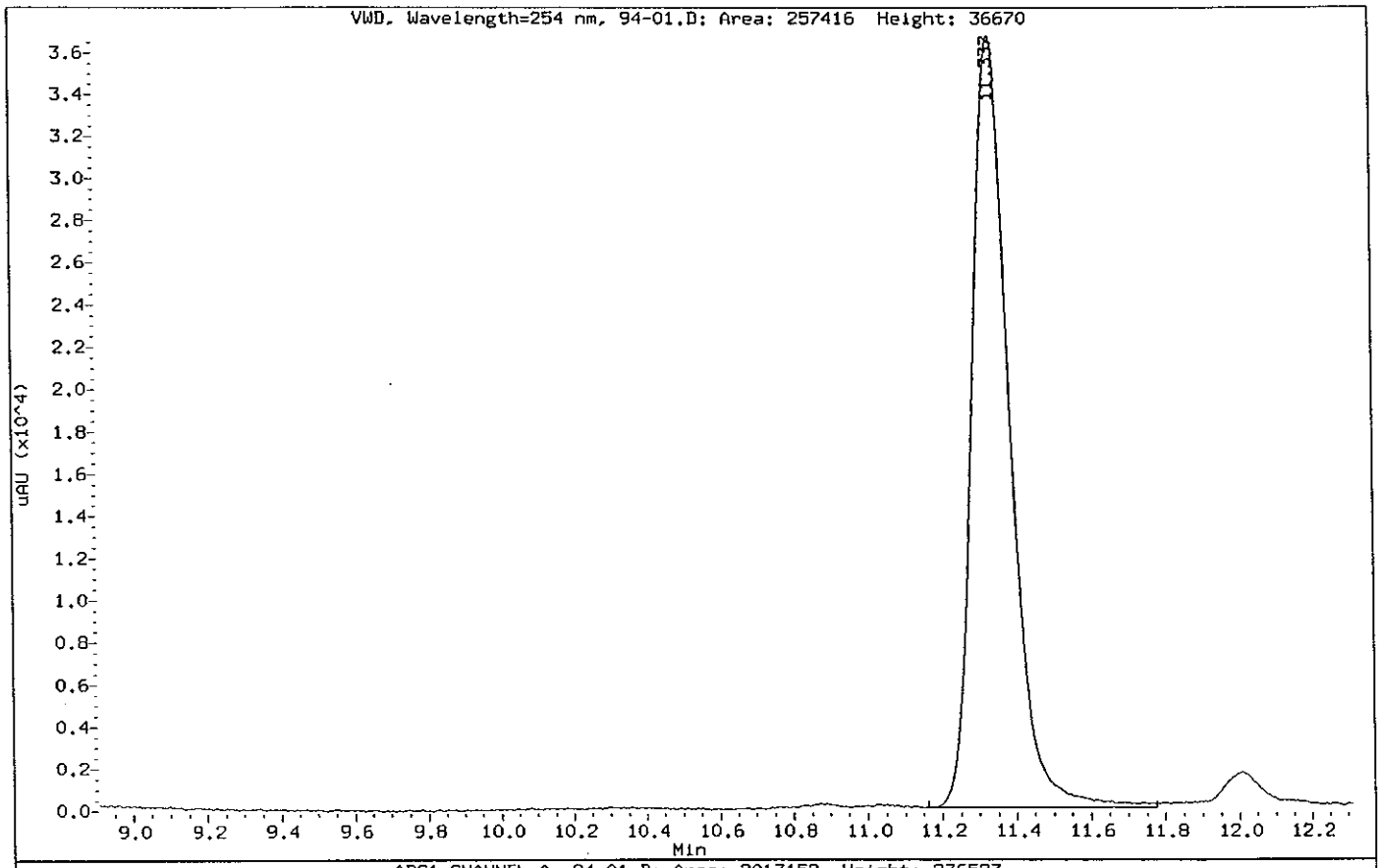
Instrument: slc02.i

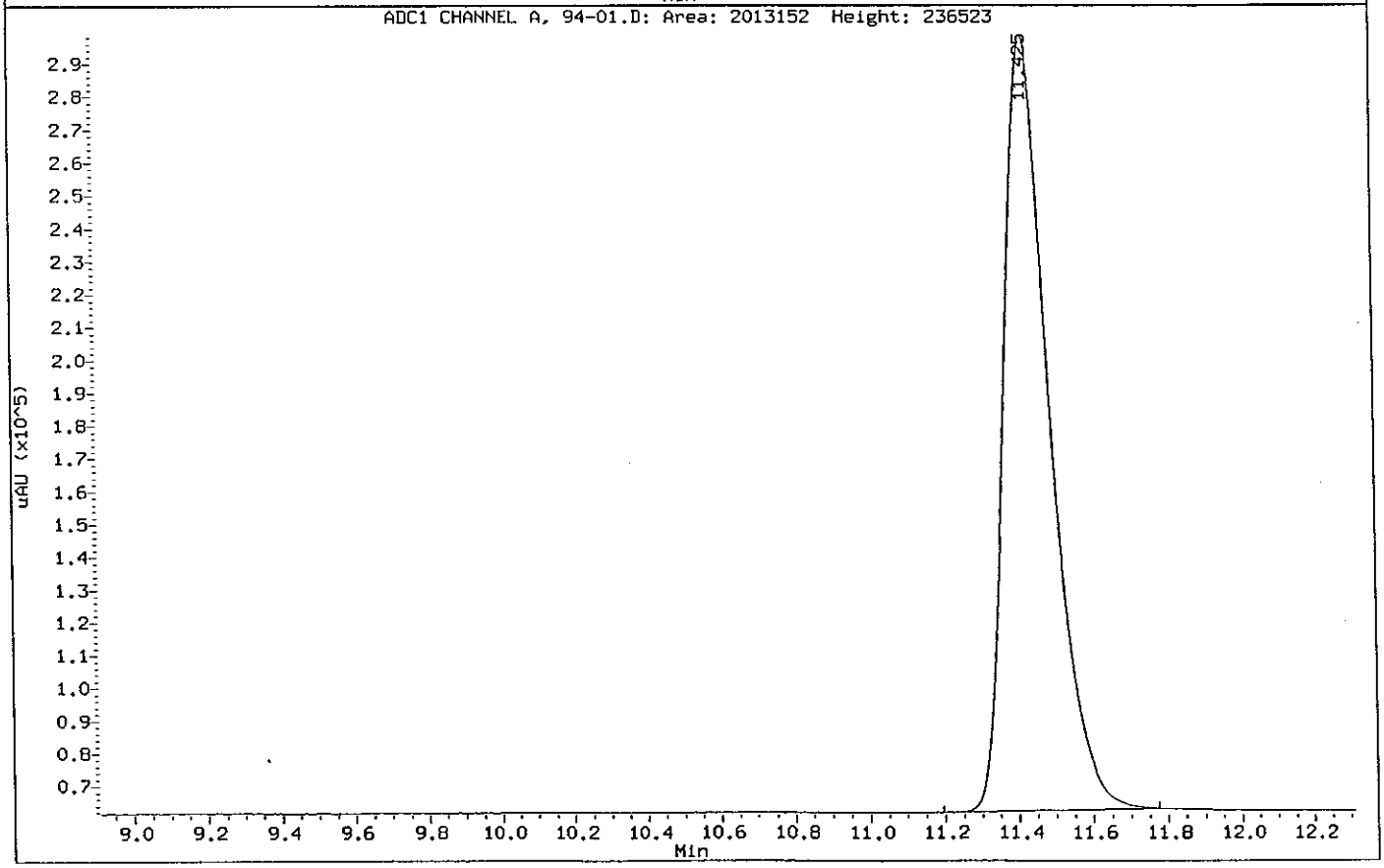
Operator: rood
Column diameter: 4.60



Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-01.D
Injection Date: 29-OCT-2001 03:09
Instrument: slc02.i
Client Sample ID: 062B7S101801

Compound: Carbazole (ISTD)
CAS Number: 86-74-8





PEL Laboratories

Data file : \\SVHPLC\ee\chem\slc02.i\L21028R1.b\CCV2.D
Lab Smp Id: 15STD3206 Client Smp ID: 15STD3206
Inj Date : 29-OCT-2001 03:43
Operator : rood Inst ID: slc02.i
Smp Info : 15STD3206
Misc Info :
Comment :
Method : \\SVHPLC\ee\chem\slc02.i\L21028R1.b\8310S.m
Meth Date : 02-Nov-2001 08:36 jdonnelly Quant Type: ISTD
Cal Date : 28-OCT-2001 20:26 Cal File: PT2UGML.D
Als bottle: 21 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.04 Sample Matrix: SOIL
Processing Host: SVHPLC

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

					AMOUNTS CAL-AMT	ON-COL		
RT	EXP RT	REL RT	SIGNAL	RESPONSE	(ug/ml)	(ug/ml)	TARGET RANGE	RATIO
* 1 Carbazole (ISTD)						CAS #: 86-74-8		
11.316	10.610	(1.000)	VWD1A	242414			80.00- 120.00	100.00(M)
11.405	10.610	(1.008)	ADC1A	1948559	10.0000		652.03- 978.05	803.81
2 Naphthalene						CAS #: 91-20-3		
12.313	11.770	(1.088)	VWD1A	83627	15.0000	15.1	80.00- 120.00	100.00
12.400	11.770	(1.096)	ADC1A	88438	15.0000	14.8	82.40- 123.60	105.75
3 Acenaphthylene						CAS #: 208-96-8		
13.463	13.013	(1.190)	VWD1A	56978	15.0000	14.0		
4 1-Methyl naphthalene						CAS #: 90-12-0		
14.046	13.633	(1.241)	VWD1A	47908	15.0000	14.4	80.00- 120.00	100.00(M)
14.135	13.633	(1.249)	ADC1A	184532	15.0000	14.9	296.60- 444.90	385.18

					AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
RT	EXP RT	REL RT	SIGNAL	RESPONSE				
5 2-Methyl naphthalene						CAS #: 91-57-6		
14.360	13.973	(1.269)	VWD1A	69243	15.0000	14.7	80.00- 120.00	100.00
14.449	13.973	(1.277)	ADC1A	156572	15.0000	15.0	191.55- 287.32	226.12
6 Acenaphthene						CAS #: 83-32-9		
14.680	14.310	(1.297)	VWD1A	31308	15.0000	14.6	80.00- 120.00	100.00
14.770	14.310	(1.305)	ADC1A	383580	15.0000	15.6	964.12-1446.17	1225.18
7 Fluorene						CAS #: 86-73-7		
15.026	14.680	(1.328)	VWD1A	374406	15.0000	15.2	80.00- 120.00	100.00
15.119	14.680	(1.336)	ADC1A	44139	15.0000	14.7	9.06- 13.59	11.79
8 Phenanthrene						CAS #: 85-01-8		
15.806	15.500	(1.397)	VWD1A	1030065	15.0000	15.0	80.00- 120.00	100.00(M)
15.897	15.500	(1.405)	ADC1A	981164	15.0000	15.0	78.58- 117.87	95.25
9 Anthracene						CAS #: 120-12-7		
16.500	16.223	(1.458)	VWD1A	2268168			80.00- 120.00	100.00
16.592	16.223	(1.466)	ADC1A	142498	15.0000	14.4	5.00- 7.50	6.28
10 Fluoranthene						CAS #: 206-44-0		
17.313	17.066	(1.530)	VWD1A	247066	15.0000	15.0	80.00- 120.00	100.00
17.285	17.066	(1.527)	ADC1A	91			6.36- 9.54	0.04
11 Pyrene						CAS #: 129-00-0		
17.836	17.606	(1.576)	VWD1A	194717	15.0000	15.4	80.00- 120.00	100.00(M)
17.929	17.606	(1.584)	ADC1A	2300680	15.0000	13.6	930.64-1395.96	1181.55
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.763	18.593	(1.658)	VWD1A	225377	15.0000	15.4	80.00- 120.00	100.00
18.859	18.593	(1.666)	ADC1A	6156774	15.0000	15.4	2246.35-3369.53	2731.77
13 Benzo(a)Anthracene						CAS #: 56-55-3		
19.583	19.426	(1.730)	VWD1A	584117	15.0000	15.2	80.00- 120.00	100.00
19.677	19.426	(1.739)	ADC1A	6355295	15.0000	15.3	881.58-1322.37	1088.02
14 Chrysene						CAS #: 218-01-9		
19.966	19.820	(1.764)	VWD1A	813367	15.0000	14.8	80.00- 120.00	100.00
20.062	19.820	(1.773)	ADC1A	1926972	15.0000	14.7	190.14- 285.21	236.91
15 Benzo(b)Fluoranthene						CAS #: 205-99-2		
21.356	21.253	(1.887)	VWD1A	660501	15.0000	15.5	80.00- 120.00	100.00
21.454	21.253	(1.896)	ADC1A	172735	15.0000	15.5	20.85- 31.28	26.15
16 Benzo(k)Fluoranthene						CAS #: 207-08-9		
21.970	21.883	(1.941)	VWD1A	493695	15.0000	15.2	80.00- 120.00	100.00

					AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
RT	EXP RT	REL RT	SIGNAL	RESPONSE				
16 Benzo(k)Fluoranthene (continued)								
22.067	21.883	(1.950)	ADC1A	330624	15.0000	15.6	52.76- 79.15	66.97
17 Benzo(a)pyrene						CAS #: 50-32-8		
22.553	22.476	(1.993)	VWD1A	570663	15.0000	15.1	80.00- 120.00	100.00(M)
22.652	22.476	(2.002)	ADC1A	992245	15.0000	15.7	138.13- 207.19	173.88
18 Dibenz(ah)Anthracene						CAS #: 53-70-3		
23.526	23.493	(2.079)	VWD1A	132903	15.0000	15.8	80.00- 120.00	100.00
23.624	23.493	(2.088)	ADC1A	1571520	15.0000	15.6	949.04-1423.56	1182.46
19 Benzo(ghi)Perylene						CAS #: 191-24-2		
24.253	24.226	(2.143)	VWD1A	220655	15.0000	15.4	80.00- 120.00	100.00
24.350	24.226	(2.152)	ADC1A	431158	15.0000	14.9	155.32- 232.98	195.40
20 Indeno(123cd)Pyrene						CAS #: 193-39-5		
24.720	24.703	(2.184)	VWD1A	570827	15.0000	15.8	80.00- 120.00	100.00(M)
24.685	24.703	(2.181)	ADC1A	653			0.00- 0.00	0.11

QC Flag Legend

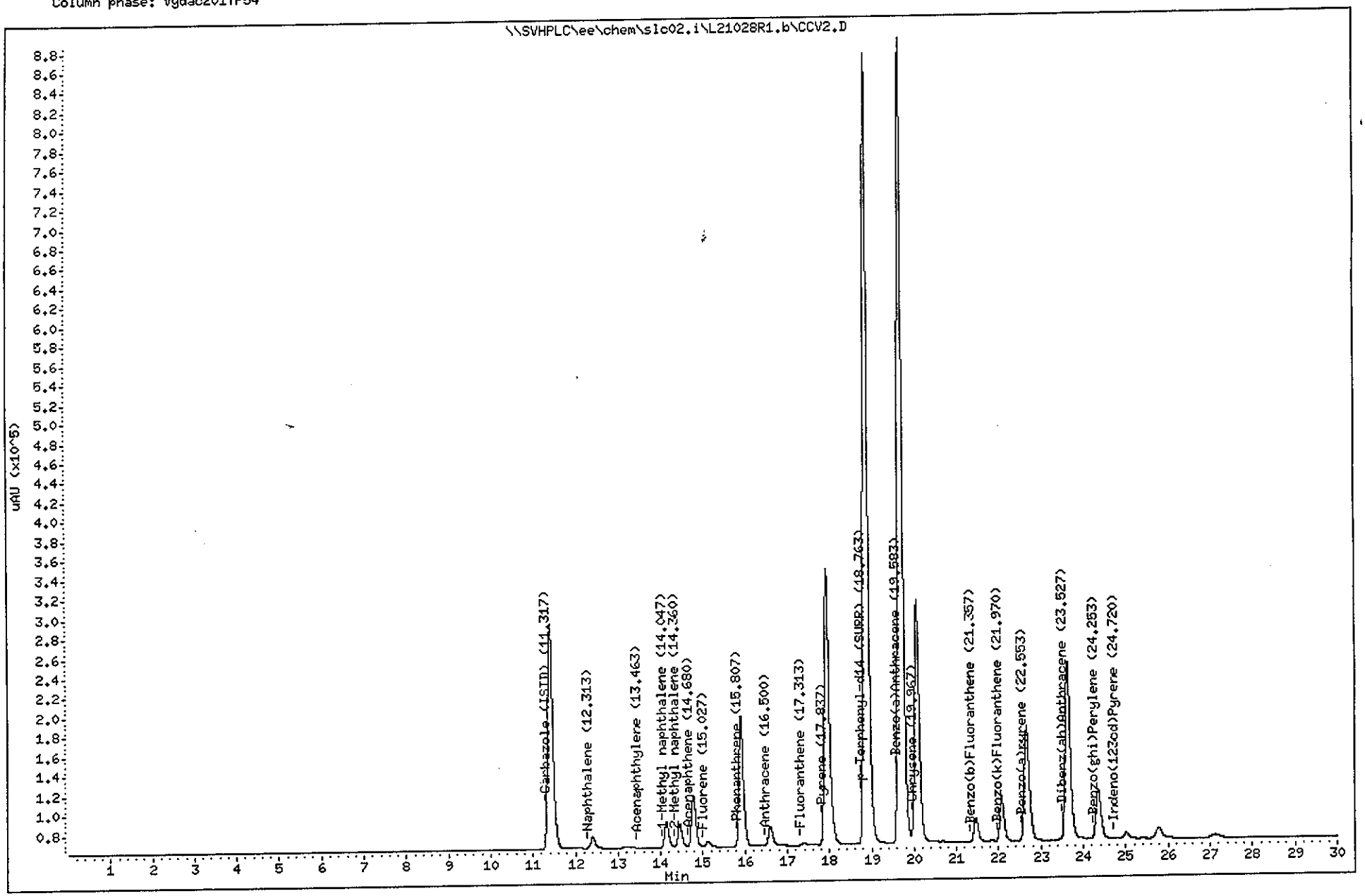
M - Compound response manually integrated.

Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\CCV2.D
Date : 29-OCT-2001 03:43
Client ID: 15STD3206
Sample Info: 15STD3206

Column phase: Vydac201TP54

Instrument: slc02.i

Operator: rood
Column diameter: 4.60



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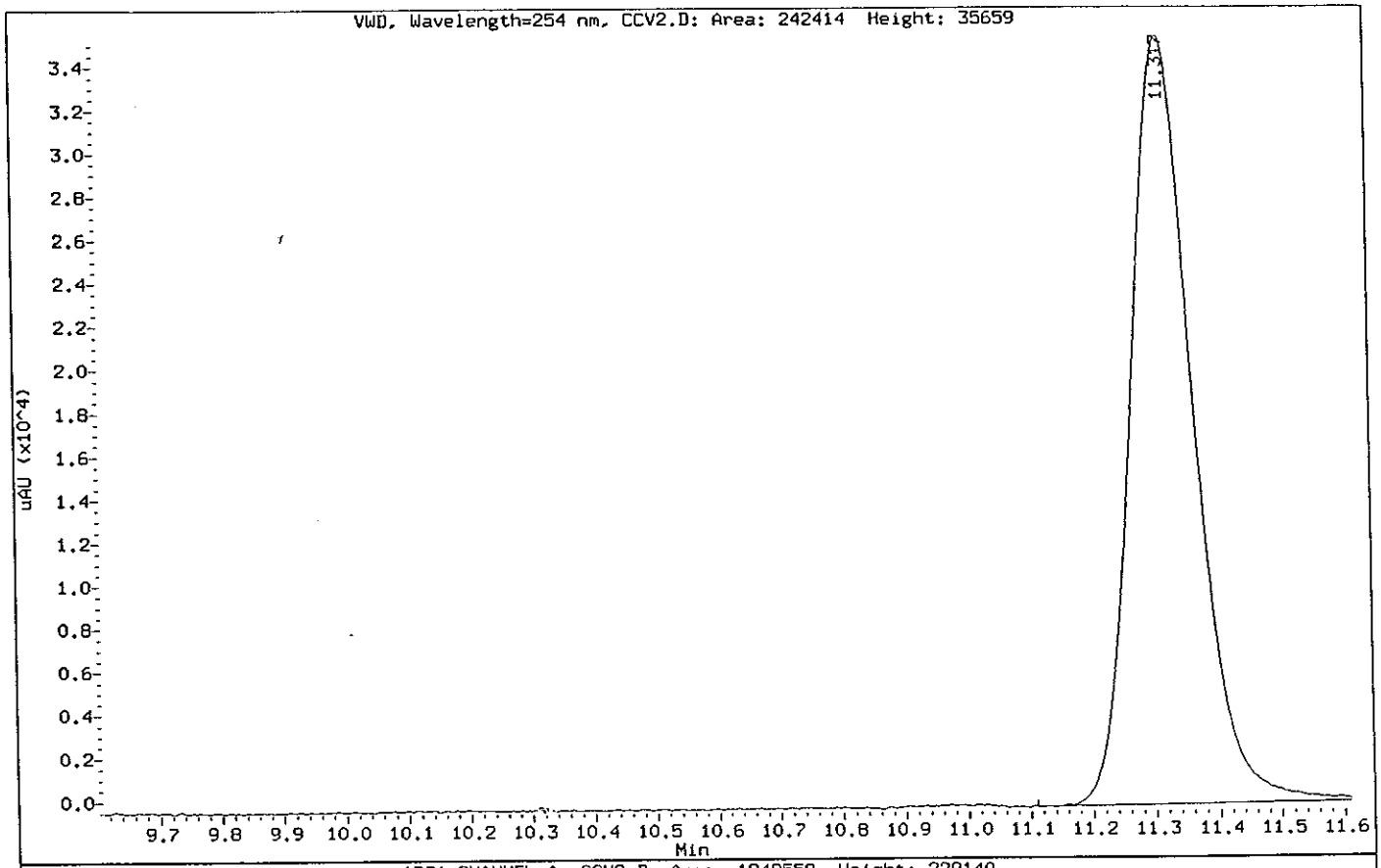
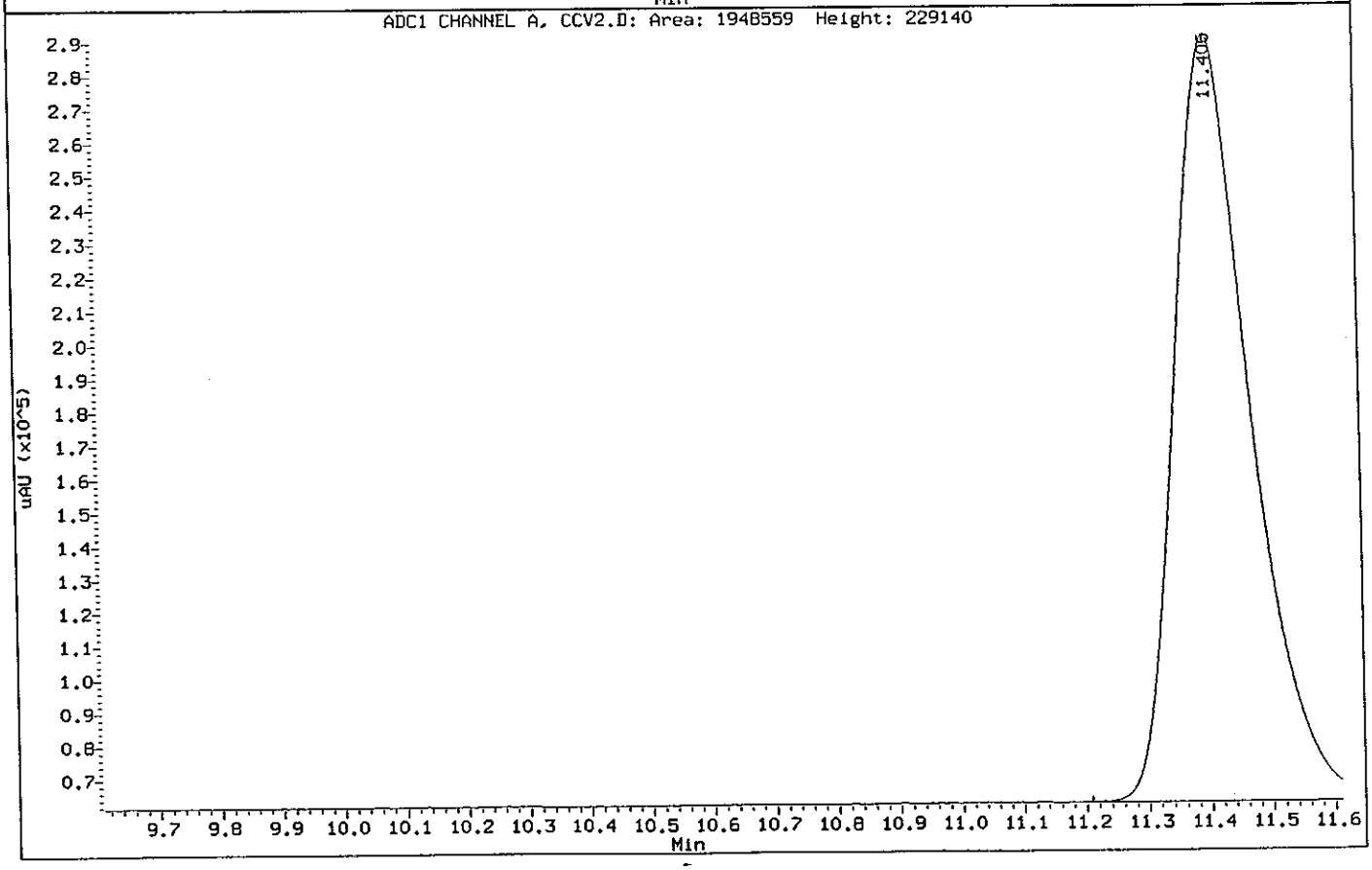
Injection Date: 29-OCT-2001 03:43
Instrument: slc02.i
Client Sample ID: 15STD3206

Compound: Carbazole (ISTD)
CAS Number: 86-74-8

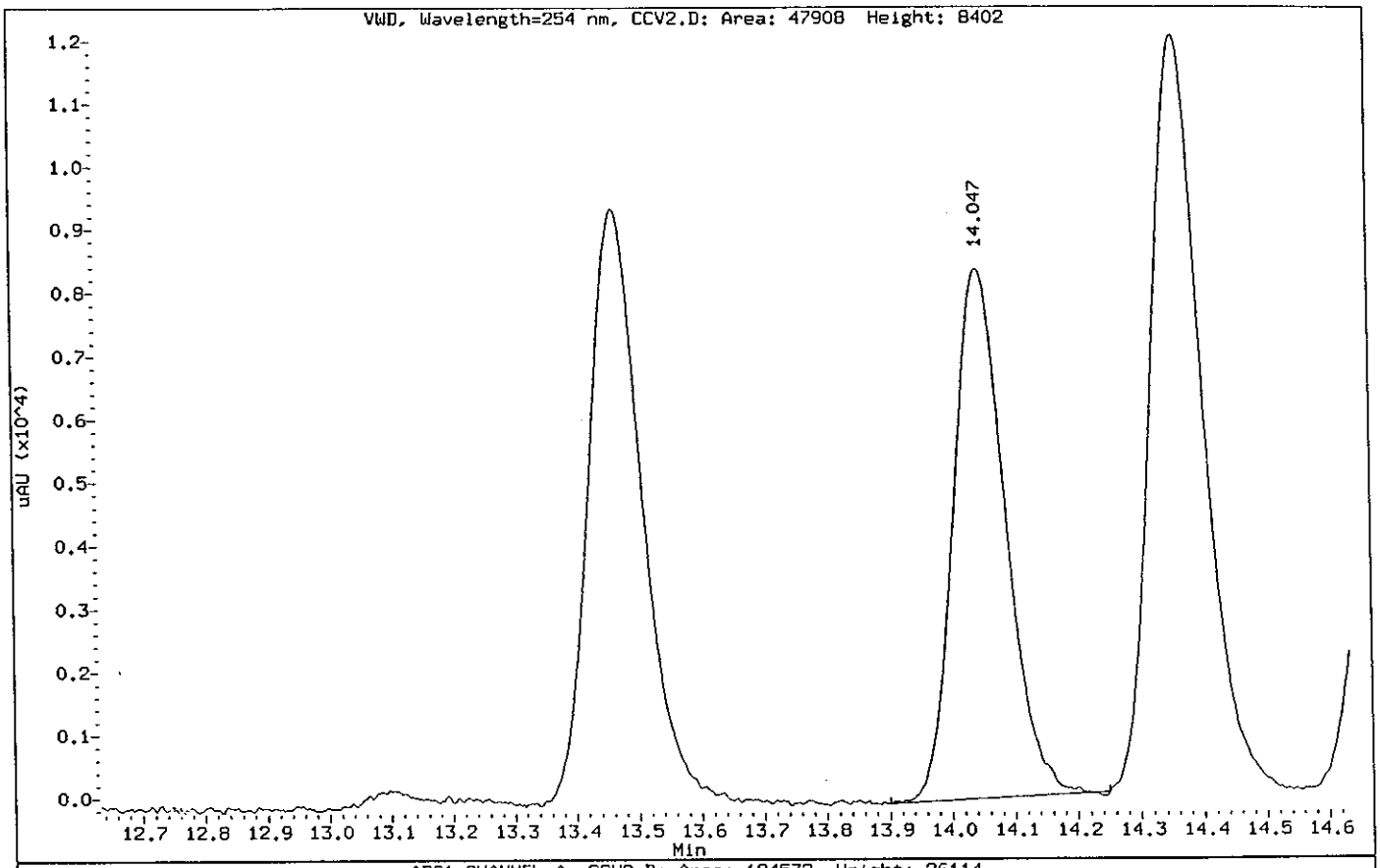


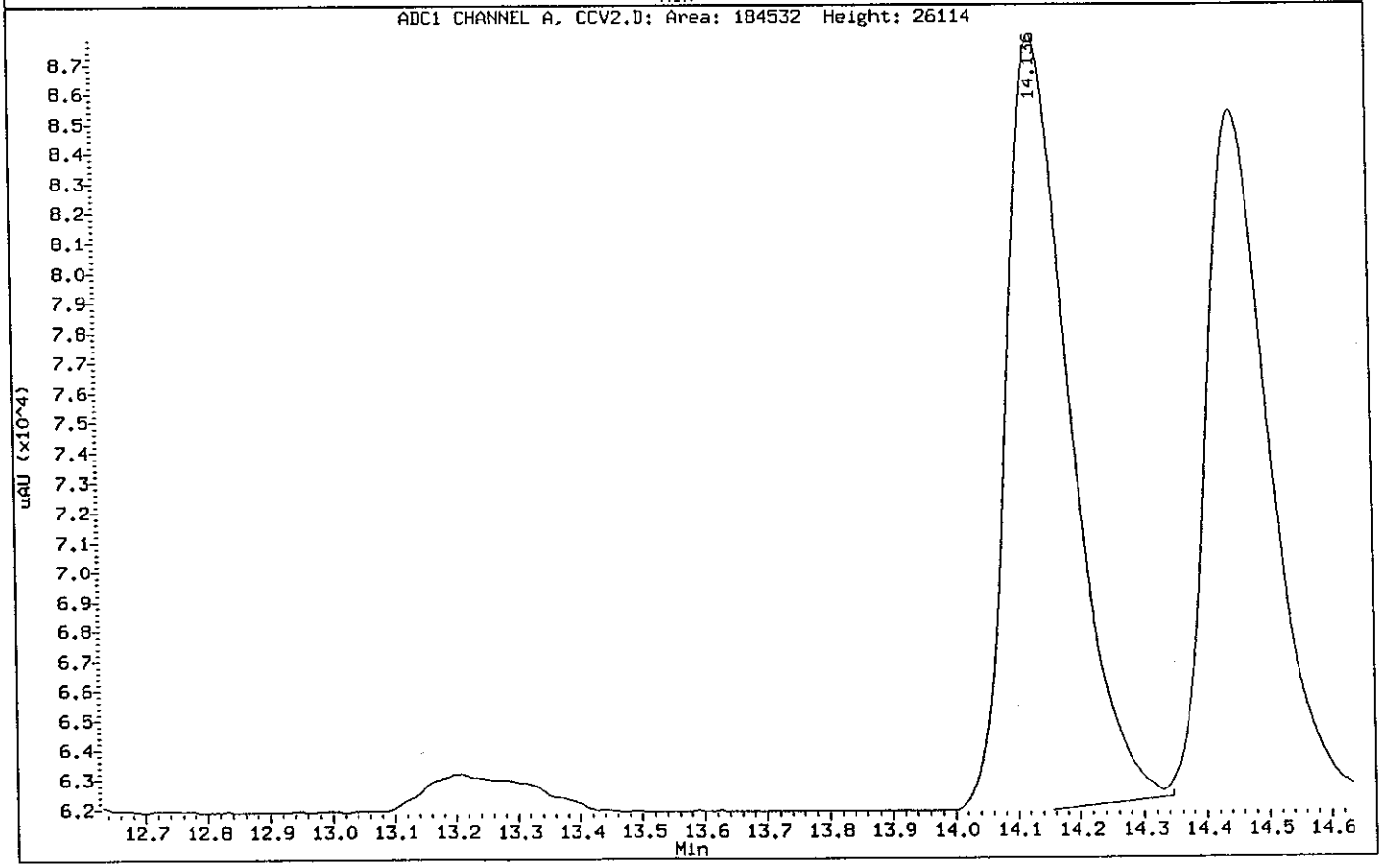


IWD

Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\CCV2.D
Injection Date: 29-OCT-2001 03:43
Instrument: slc02.i
Client Sample ID: 15STD3206

Compound: 1-Methyl naphthalene
CAS Number: 90-12-0





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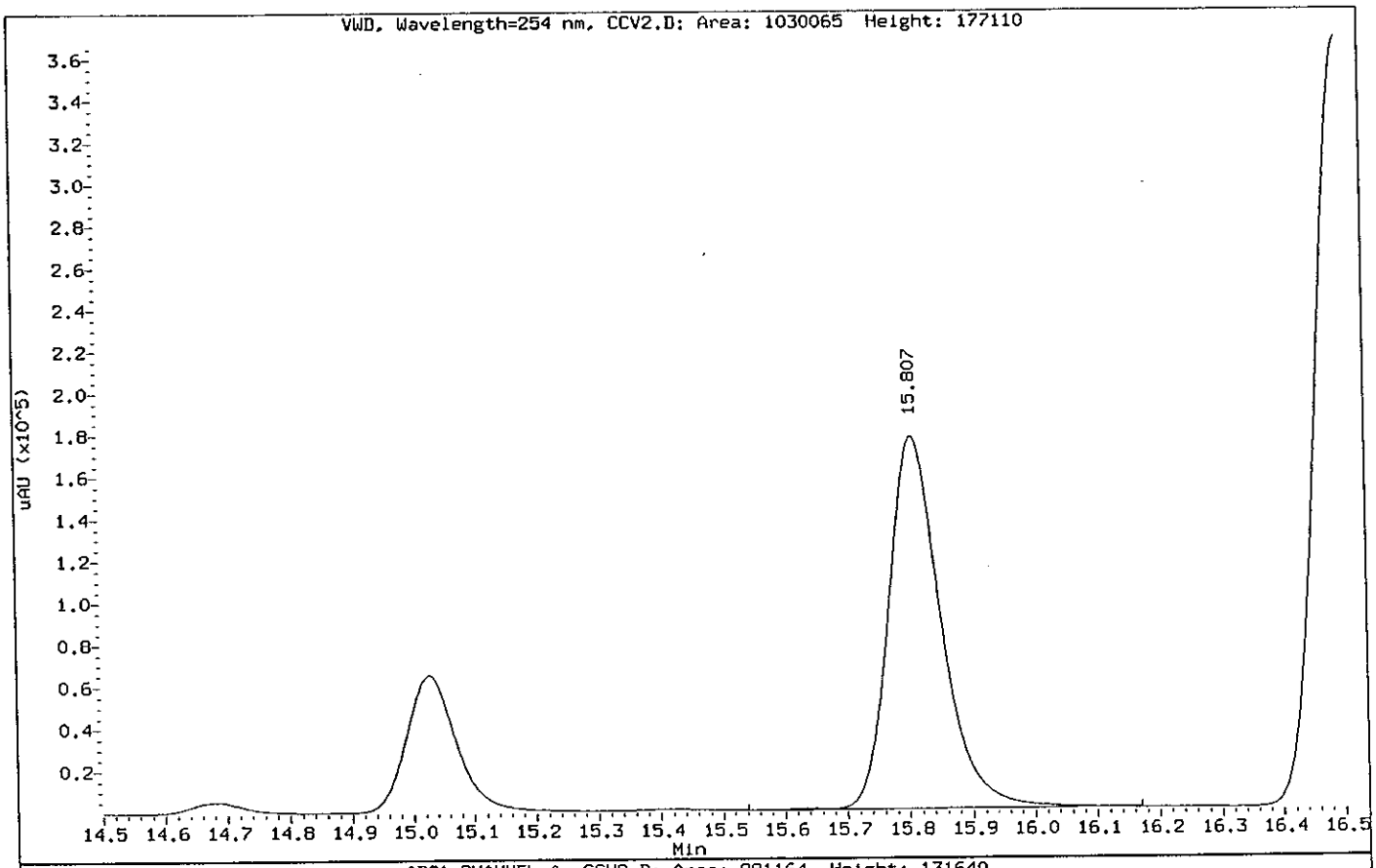
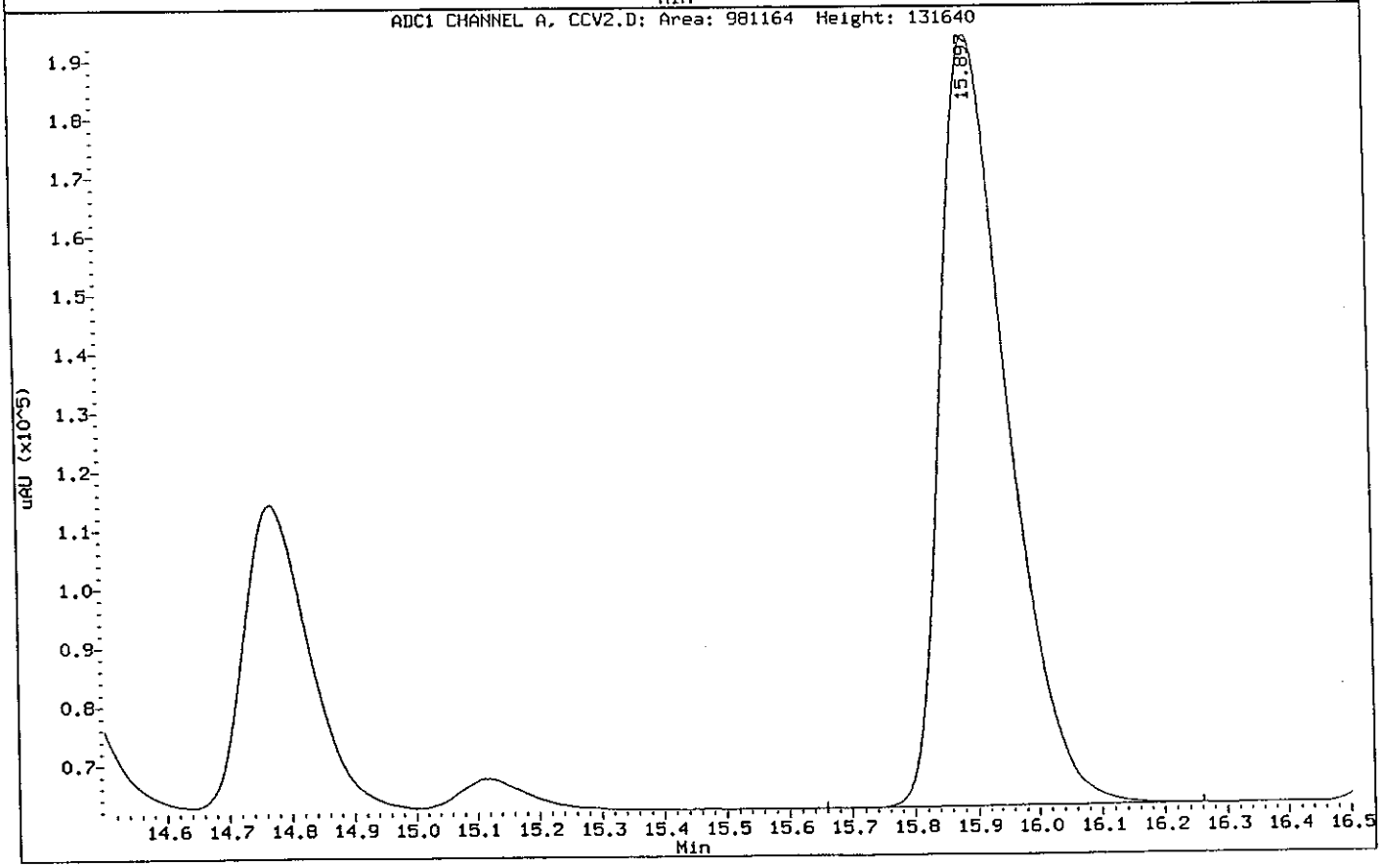
Injection Date: 29-OCT-2001 03:43
Instrument: slc02.i
Client Sample ID: 15STD3206

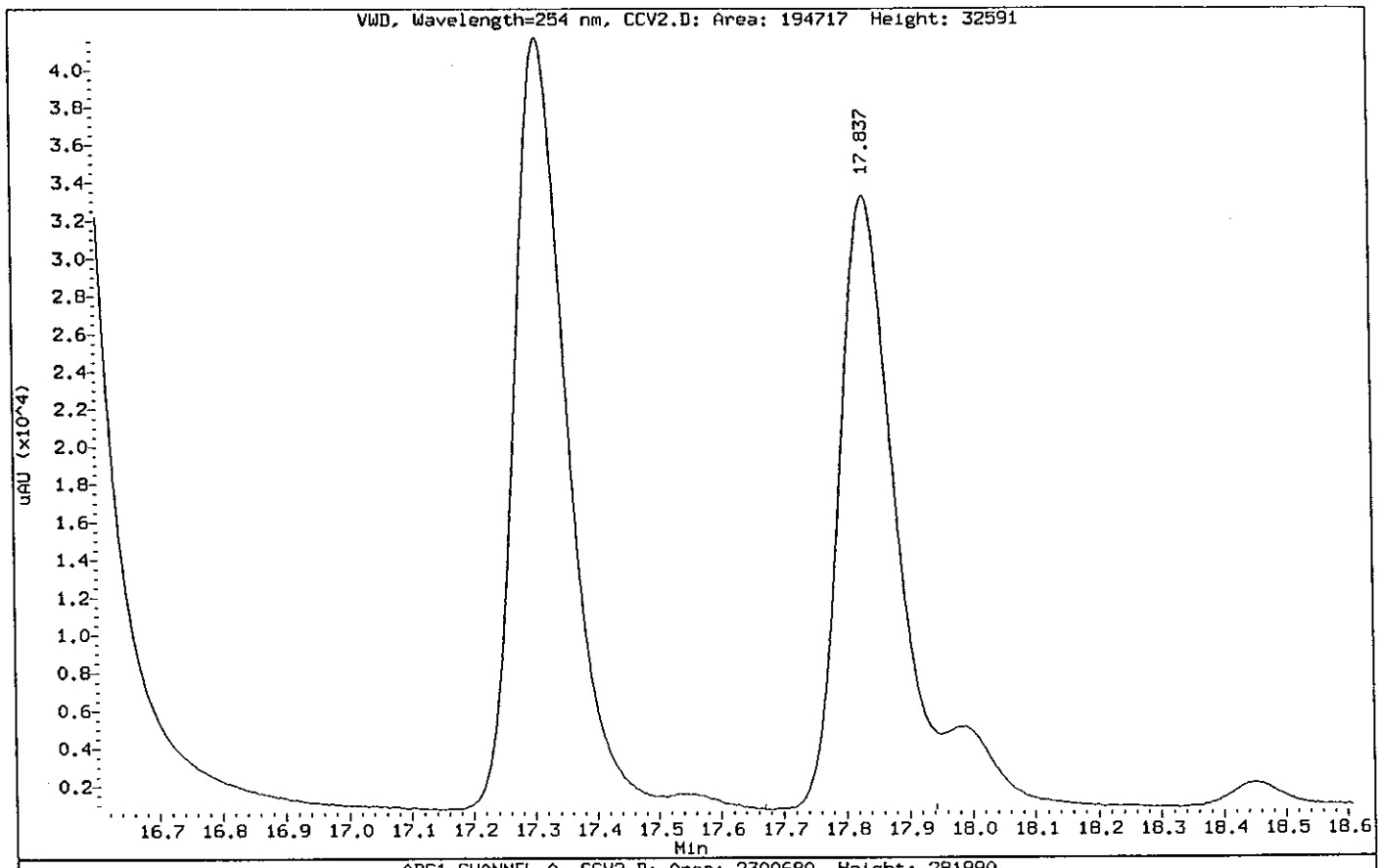
Compound: Phenanthrene
CAS Number: 85-01-8

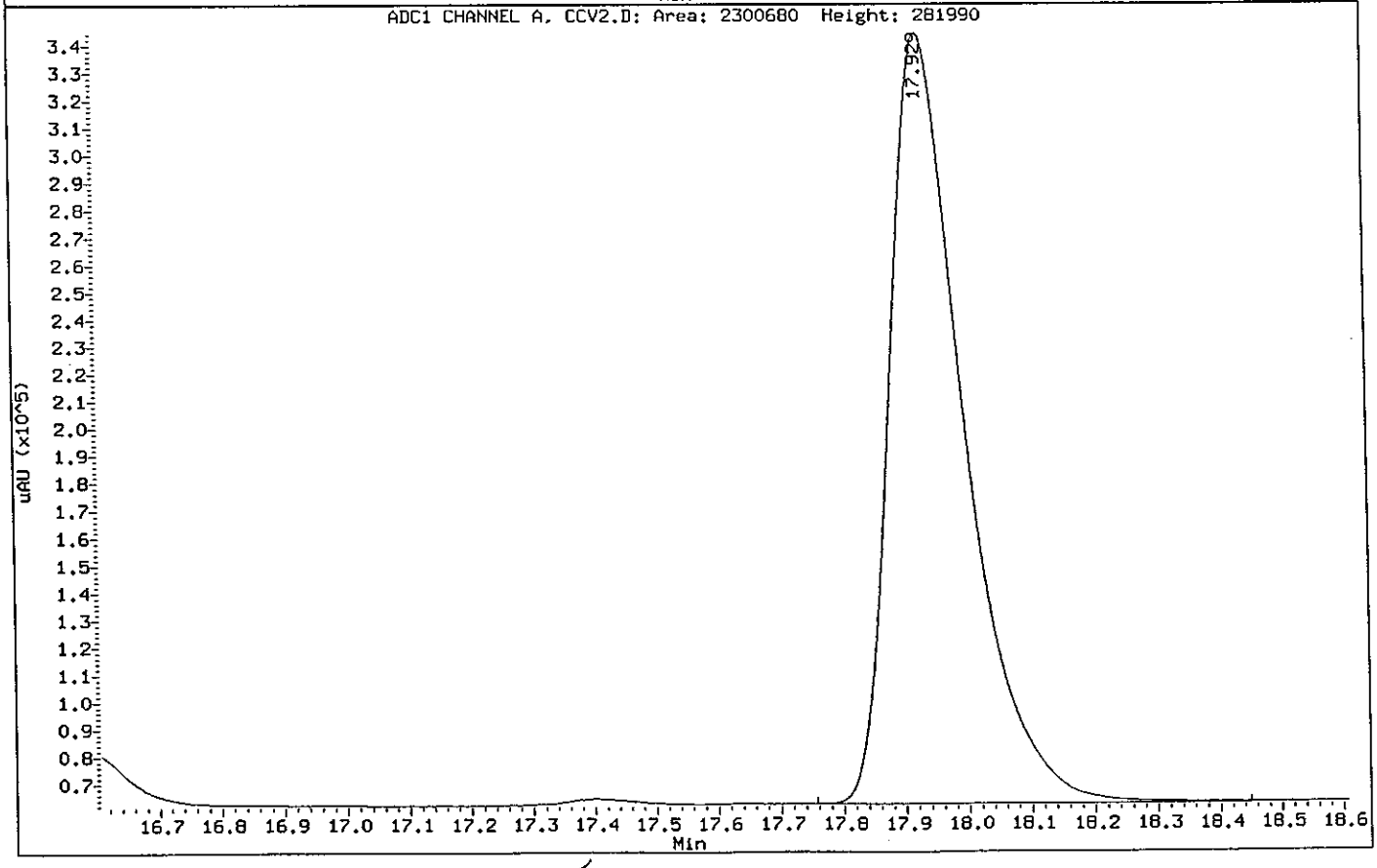




Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\CCV2.D
Injection Date: 29-OCT-2001 03:43
Instrument: slc02.i
Client Sample ID: 15STD3206

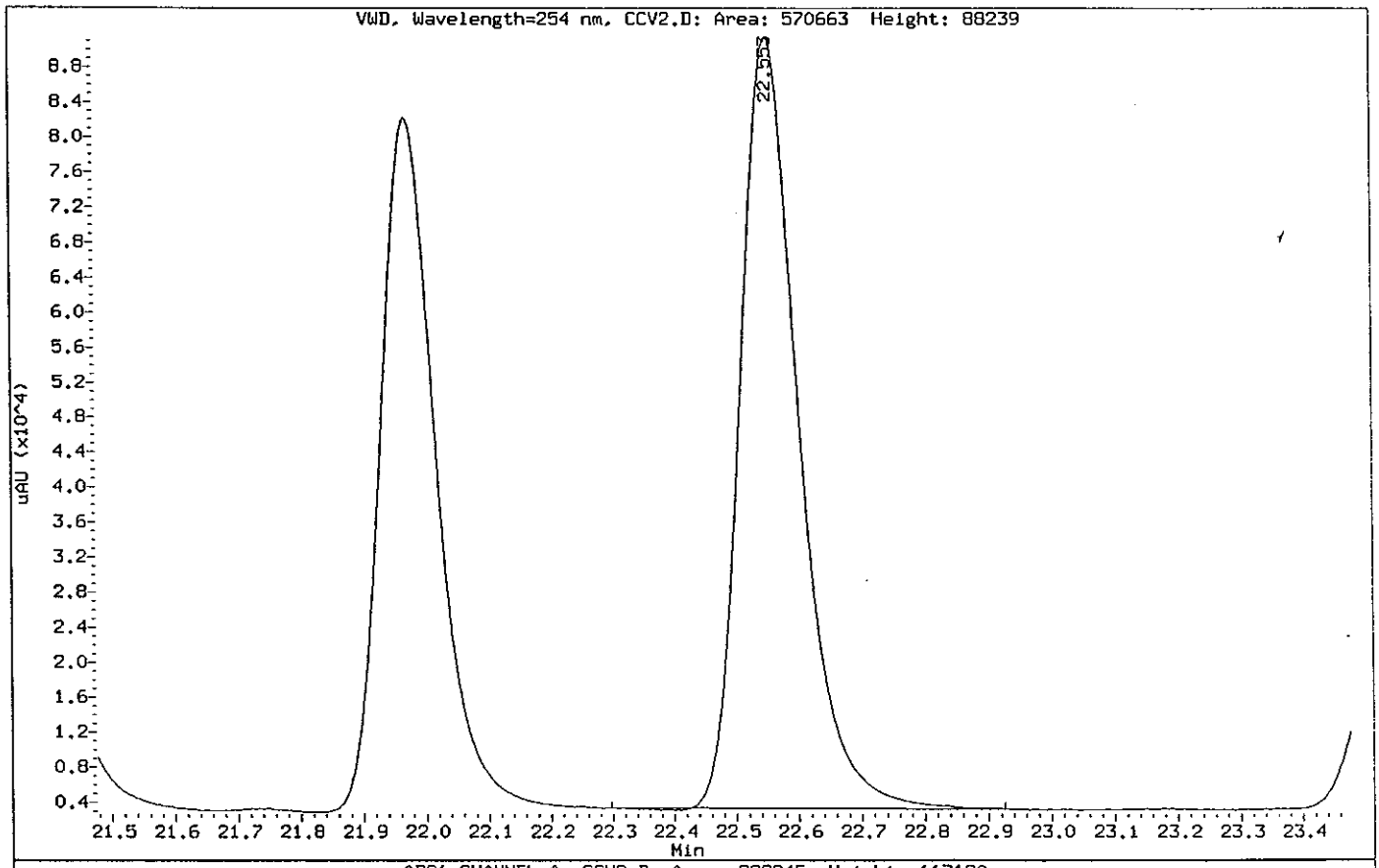
Compound: Pyrene
CAS Number: 129-00-0

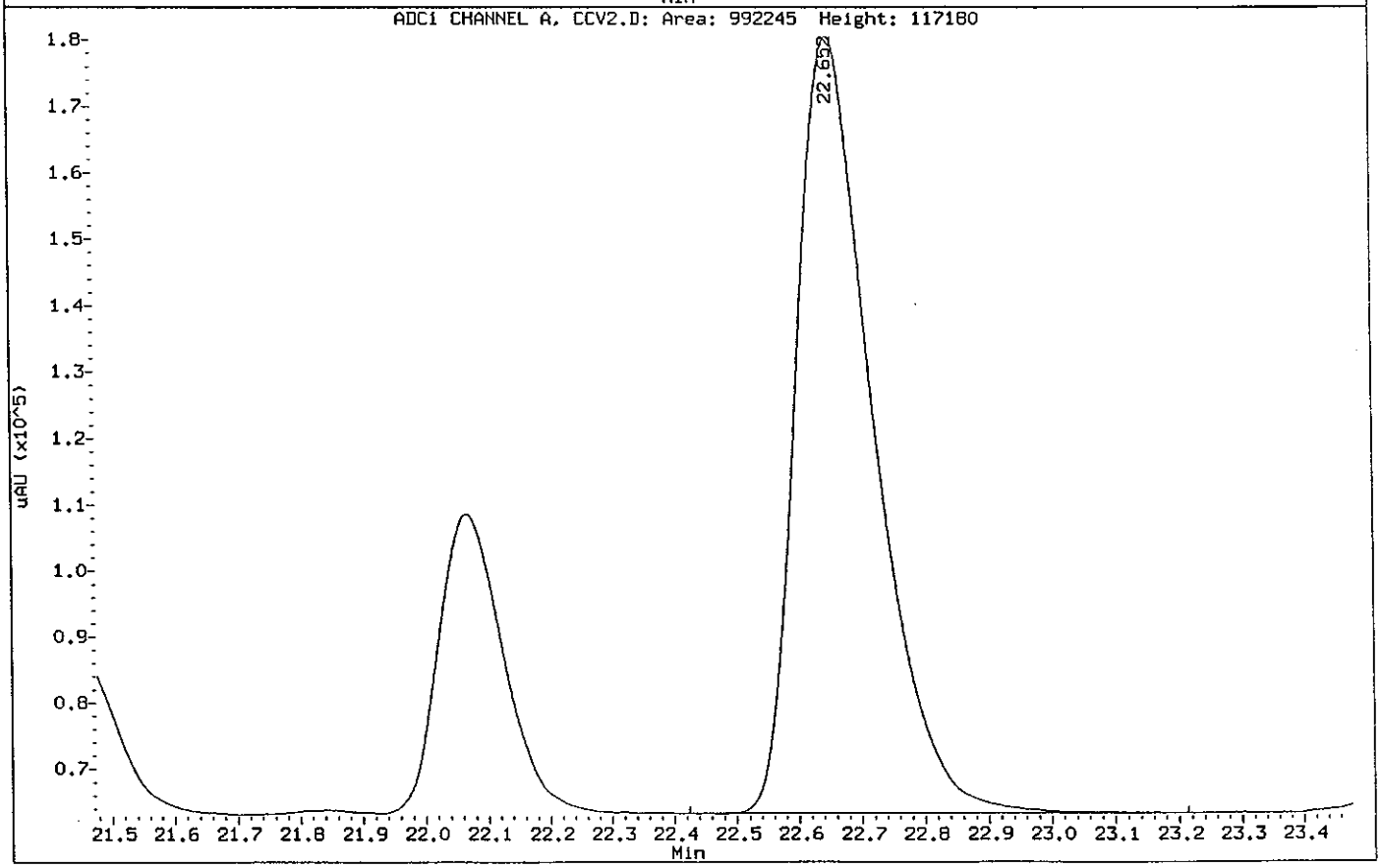




Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\CCV2.D
Injection Date: 29-OCT-2001 03:43
Instrument: slc02.i
Client Sample ID: 15STD3206

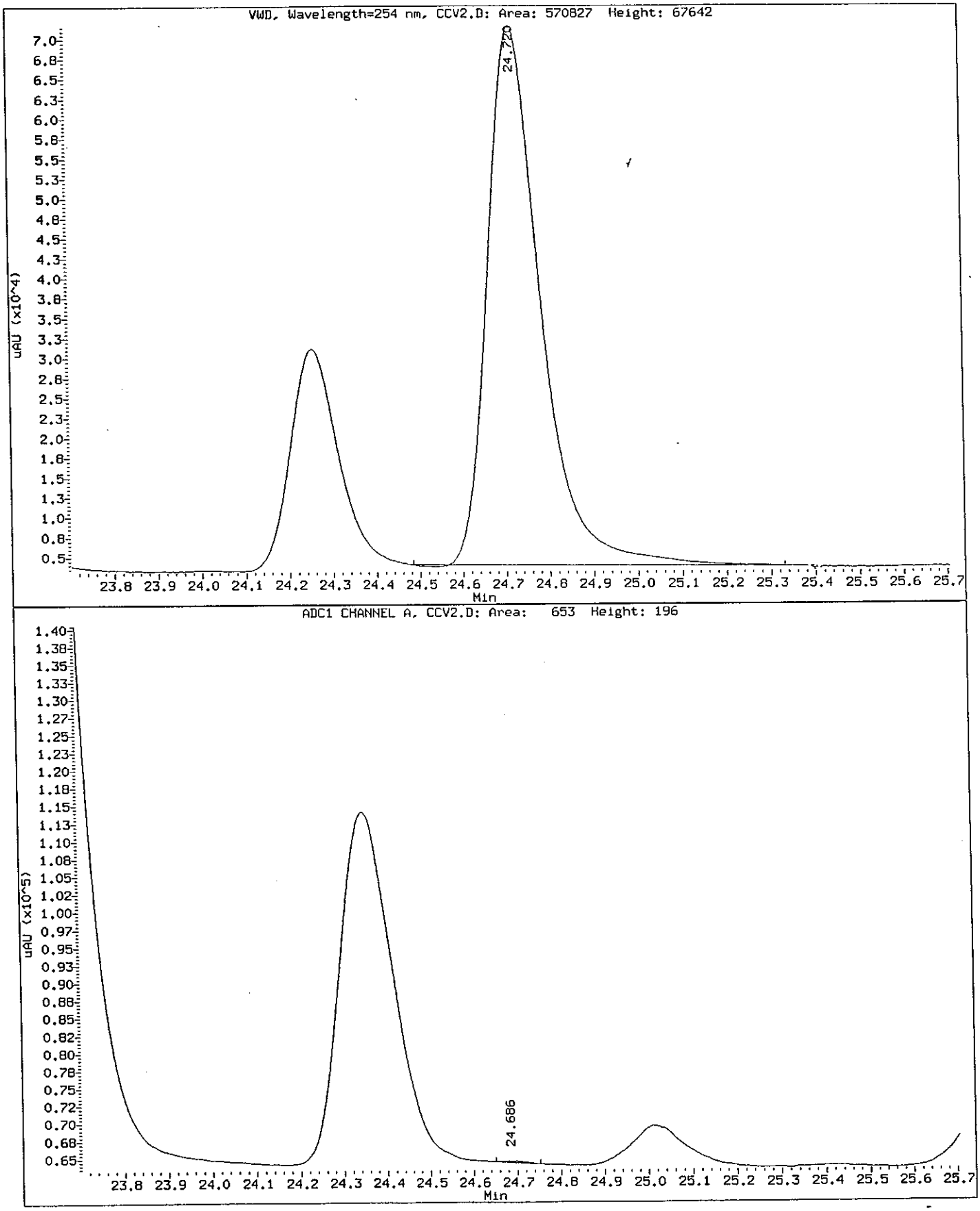
Compound: Benzo(a)pyrene
CAS Number: 50-32-8





Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\CCV2.D
Injection Date: 29-OCT-2001 03:43
Instrument: slc02.i
Client Sample ID: 15STD3206

Compound: Indeno(123cd)Pyrene
CAS Number: 193-39-5



PEL Laboratories

Data file : \\SVHPLC\ee\chem\slc02.i\L21028R1.b\1025AB.D
Lab Smp Id: 51553 Client Smp ID: 1025SBLK
Inj Date : 29-OCT-2001 07:11
Operator : rood Inst ID: slc02.i
Smp Info : 51553
Misc Info :
Comment :
Method : \\SVHPLC\ee\chem\slc02.i\L21028R1.b\8310S.m
Meth Date : 02-Nov-2001 08:36 jdonnelly Quant Type: ISTD
Cal Date : 28-OCT-2001 20:26 Cal File: PT2UGML.D
Als bottle: 2 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: navy50.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	32.600	Extracted weight
M	0.000	% Moisture
Vf	1.000	Final Volume

RT	EXP RT	REL RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO
* 1 Carbazole (ISTD)						CAS #: 86-74-8		
11.273	10.610	(1.000)	VWD1A	272602			80.00- 120.00	100.00(M)
11.367	10.610	(1.008)	ADC1A	2001986	10.0000		652.03- 978.05	734.40
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.750	18.593	(1.663)	VWD1A	244369	16.2817	499	80.00- 120.00	100.00
18.847	18.593	(1.672)	ADC1A	6828370	16.6218	510	2246.35-3369.53	2794.29

QC Flag Legend

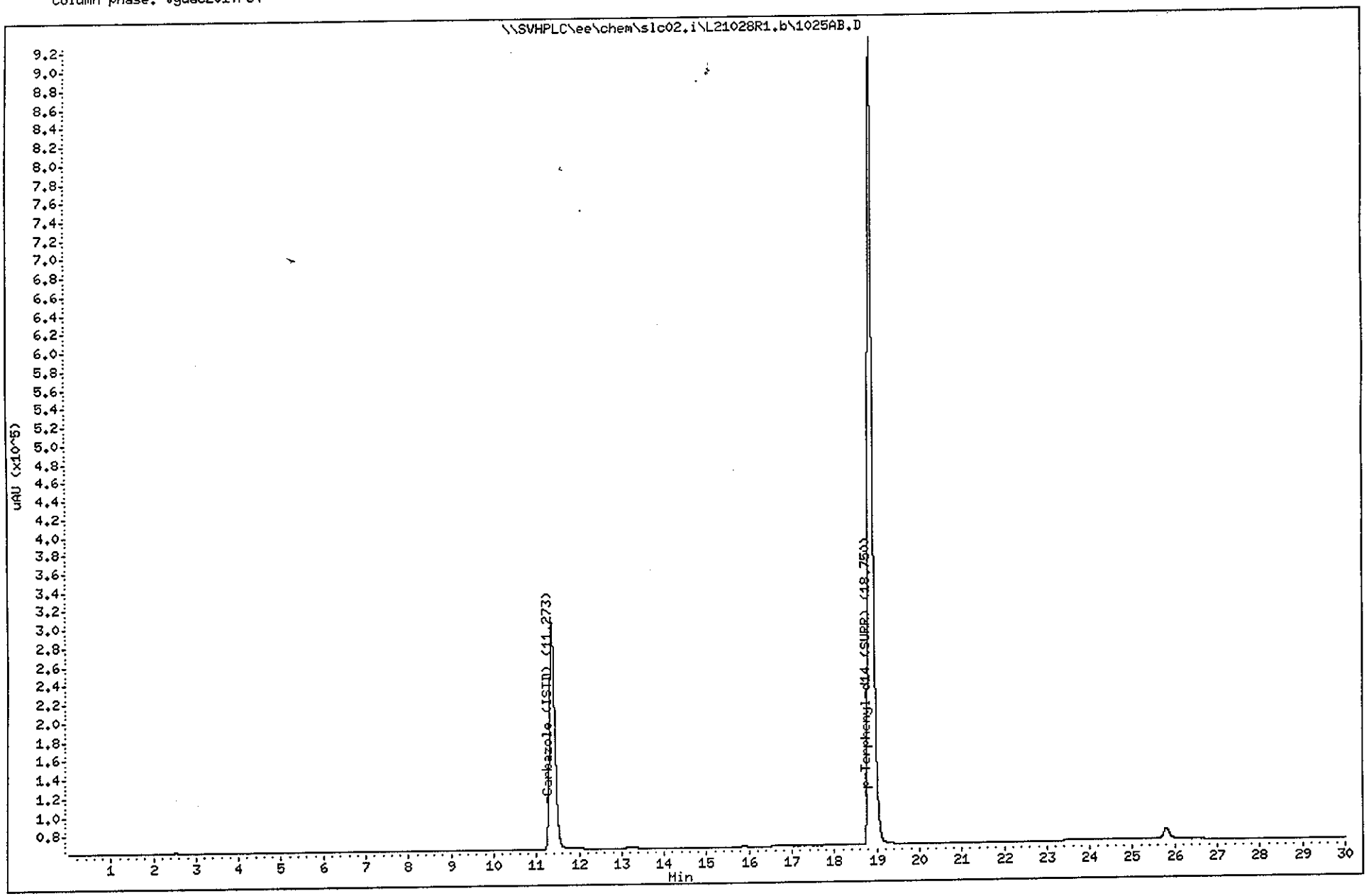
M - Compound response manually integrated.

Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\1025AB.D
Date : 29-OCT-2001 07:11
Client ID: 1025SBLK
Sample Info: 51553

Column phase: Vydac201TP54

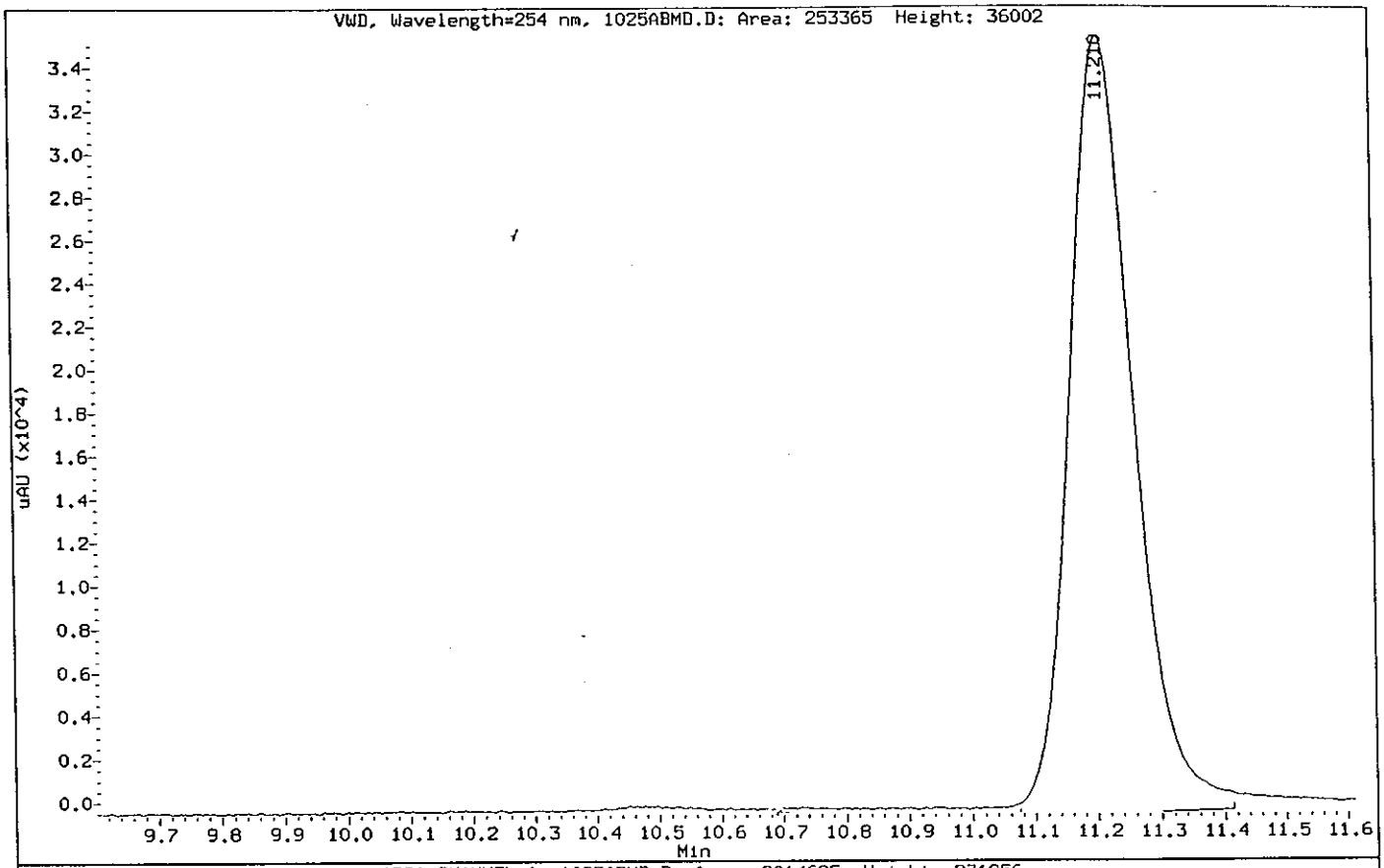
Instrument: slc02.i

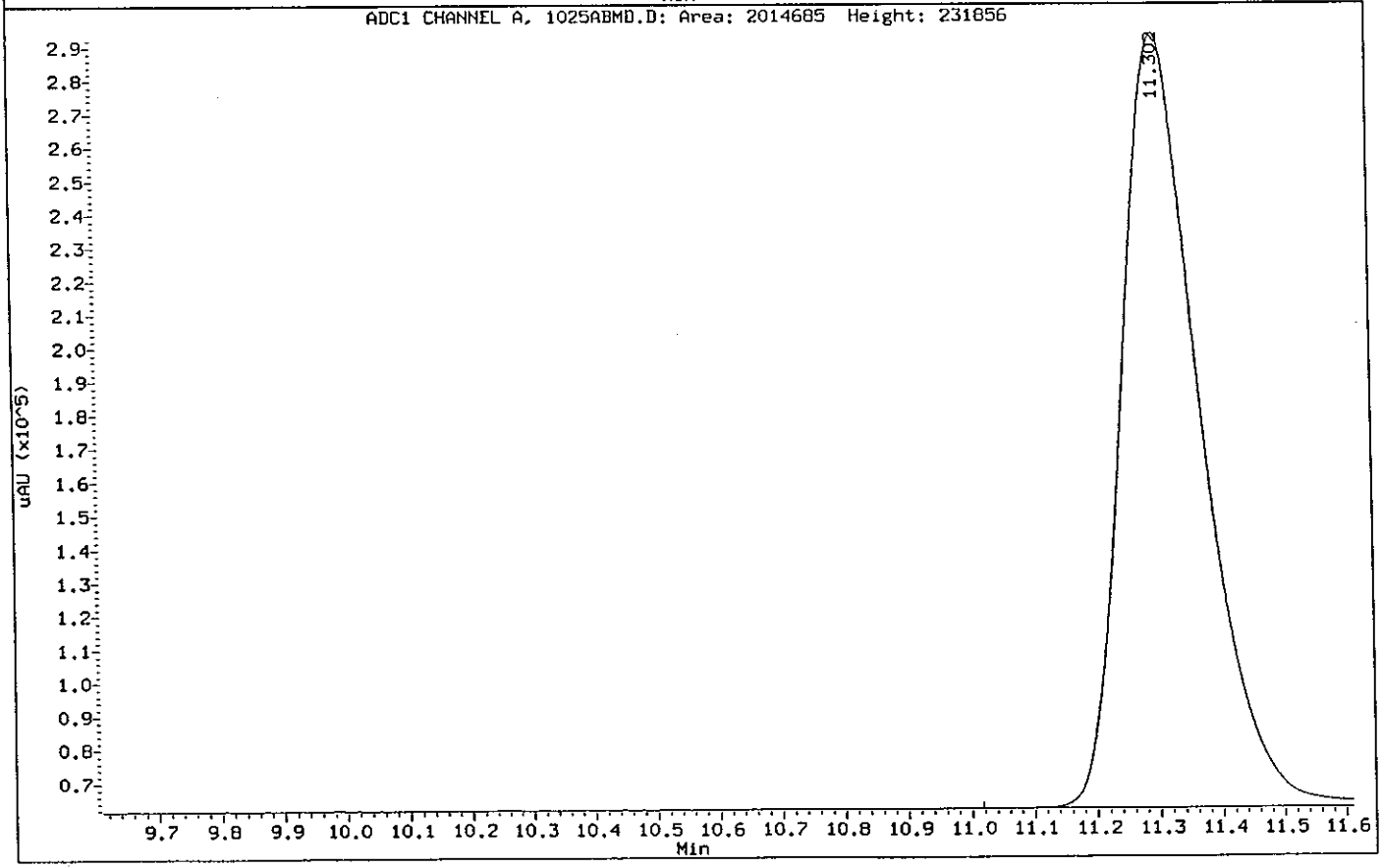
Operator: rood
Column diameter: 4.60



Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\1025ABMD.D
Injection Date: 29-OCT-2001 08:55
Instrument: slc02.i
Client Sample ID: 1025SBLKSD

Compound: Carbazole (ISTD)
CAS Number: 86-74-8





TMD

PEL Laboratories

Data file : \\SVHPLC\ee\chem\slc02.i\L21028R1.b\1025ABMD.D
Lab Smp Id: 51556 Client Smp ID: 1025SBLKSD
Inj Date : 29-OCT-2001 08:55
Operator : rood Inst ID: slc02.i
Smp Info : 51556
Misc Info :
Comment :
Method : \\SVHPLC\ee\chem\slc02.i\L21028R1.b\8310S.m
Meth Date : 02-Nov-2001 08:36 jdonnelly Quant Type: ISTD
Cal Date : 28-OCT-2001 20:26 Cal File: PT2UGML.D
Als bottle: 5 QC Sample: MSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: navy50.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

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	REL RT	SIGNAL	RESPONSE	(ug/ml)	(ug/kg)	TARGET RANGE	RATIO
* 1 Carbazole (ISTD)						CAS #: 86-74-8		
11.210	10.610	(1.000)	VWD1A	253365			80.00- 120.00	100.00(M)
11.301	10.610	(1.008)	ADC1A	2014685	10.0000		652.03- 978.05	795.17
2 Naphthalene						CAS #: 91-20-3		
12.226	11.770	(1.091)	VWD1A	33627	5.88012	178	80.00- 120.00	100.00(aM)
12.323	11.770	(1.099)	ADC1A	32765	5.28693	160	82.40- 123.60	97.44
3 Acenaphthylene						CAS #: 208-96-8		
13.386	13.013	(1.194)	VWD1A	25992	6.18482	187		
4 1-Methyl naphthalene						CAS #: 90-12-0		
13.976	13.633	(1.247)	VWD1A	23380	6.77909	205	80.00- 120.00	100.00
14.068	13.633	(1.255)	ADC1A	68618	5.37620	163	296.60- 444.90	293.49

RT	EXP RT	REL RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	CONCENTRATIONS FINAL (ug/kg)	TARGET RANGE	RATIO
5 2-Methyl naphthalene						CAS #: 91-57-6		
14.296	13.973	(1.275)	VWD1A	30995	6.34752	192	80.00- 120.00	100.00
14.385	13.973	(1.283)	ADC1A	58939	5.45999	165	191.55- 287.32	190.16
6 Acenaphthene						CAS #: 83-32-9		
14.613	14.310	(1.304)	VWD1A	14281	6.45301	196	80.00- 120.00	100.00
14.710	14.310	(1.312)	ADC1A	153439	6.04903	183	964.12-1446.17	1074.43
7 Fluorene						CAS #: 86-73-7		
14.966	14.680	(1.335)	VWD1A	175057	6.85244	208	80.00- 120.00	100.00
15.058	14.680	(1.343)	ADC1A	20511	6.62848	201	9.06- 13.59	11.72
8 Phenanthrene						CAS #: 85-01-8		
15.753	15.500	(1.405)	VWD1A	523299	7.36415	223	80.00- 120.00	100.00
15.848	15.500	(1.414)	ADC1A	473475	7.02108	213	78.58- 117.87	90.48
9 Anthracene						CAS #: 120-12-7		
16.453	16.223	(1.468)	VWD1A	1155425			80.00- 120.00	100.00
16.553	16.223	(1.477)	ADC1A	65338	6.37803	193	5.00- 7.50	5.65
10 Fluoranthene						CAS #: 206-44-0		
17.273	17.066	(1.541)	VWD1A	130557	7.68536	233	80.00- 120.00	100.00
17.205	17.066	(1.535)	ADC1A	598			6.36- 9.54	0.46
11 Pyrene						CAS #: 129-00-0		
17.800	17.606	(1.588)	VWD1A	101346	7.77318	236	80.00- 120.00	100.00(M)
17.901	17.606	(1.597)	ADC1A	1181323	6.78286	206	930.64-1395.96	1165.63
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.736	18.593	(1.671)	VWD1A	255174	16.8945	512	80.00- 120.00	100.00
18.835	18.593	(1.680)	ADC1A	7178227	17.3633	526	2246.35-3369.53	2813.07
13 Benzo(a)Anthracene						CAS #: 56-55-3		
19.560	19.426	(1.745)	VWD1A	311755	7.82273	237	80.00- 120.00	100.00
19.656	19.426	(1.754)	ADC1A	3381891	7.89575	239	881.58-1322.37	1084.79
14 Chrysene						CAS #: 218-01-9		
19.943	19.820	(1.779)	VWD1A	435901	7.65564	232	80.00- 120.00	100.00
20.040	19.820	(1.788)	ADC1A	1021353	7.53175	228	190.14- 285.21	234.31
15 Benzo(b)Fluoranthene						CAS #: 205-99-2		
21.333	21.253	(1.903)	VWD1A	354927	8.07900	245	80.00- 120.00	100.00
21.435	21.253	(1.912)	ADC1A	82757	7.19461	218	20.85- 31.28	23.32
16 Benzo(k)Fluoranthene						CAS #: 207-08-9		
21.950	21.883	(1.958)	VWD1A	265887	7.91789	240	80.00- 120.00	100.00

RT	EXP RT	REL RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	CONCENTRATIONS FINAL (ug/kg)	TARGET RANGE	RATIO
16 Benzo(k)Fluoranthene (continued)								
22.048	21.883	(1.967)	ADC1A	161487	7.35626	223	52.76- 79.15	60.74
17 Benzo(a)pyrene						CAS #: 50-32-8		
22.533	22.476	(2.010)	VWD1A	292234	7.46367	226	80.00- 120.00	100.00(M)
22.636	22.476	(2.019)	ADC1A	504893	7.71890	234	138.13- 207.19	172.77
18 Dibenz(ah)Anthracene						CAS #: 53-70-3		
23.526	23.493	(2.099)	VWD1A	76132	8.75199	265	80.00- 120.00	100.00
23.626	23.493	(2.108)	ADC1A	838006	8.06588	244	949.04-1423.56	1100.73
19 Benzo(ghi)Perylene						CAS #: 191-24-2		
24.253	24.226	(2.164)	VWD1A	115131	7.77462	236	80.00- 120.00	100.00
24.358	24.226	(2.173)	ADC1A	208691	6.95776	211	155.32- 232.98	181.26
20 Indeno(123cd)Pyrene						CAS #: 193-39-5		
24.720	24.703	(2.205)	VWD1A	301039	8.06325	244	80.00- 120.00	100.00
24.845	24.703	(2.216)	ADC1A	196			0.00- 0.00	0.07

QC Flag Legend

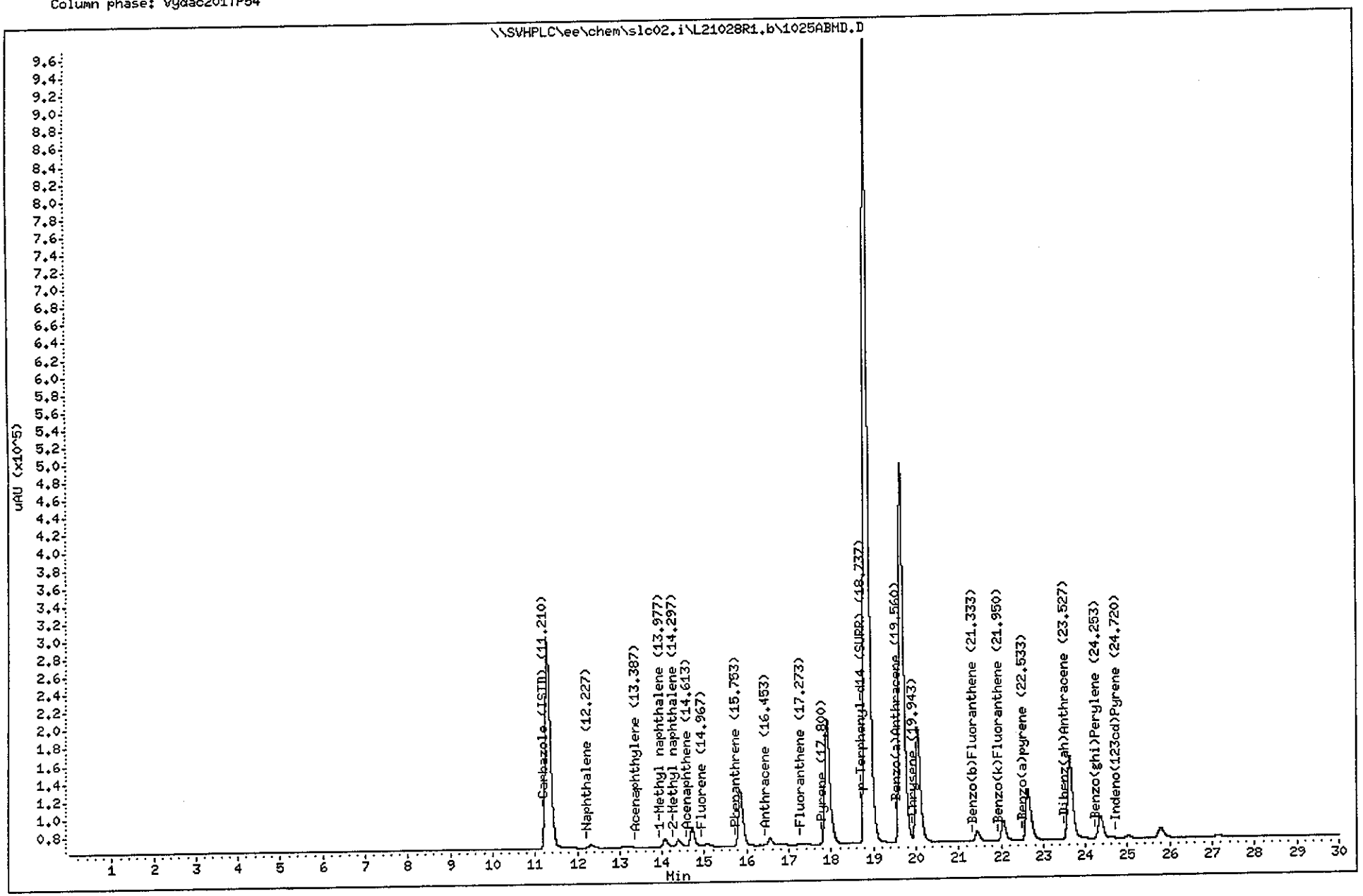
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\1025ABMD.D
Date : 29-OCT-2001 08:55
Client ID: 1025SBLKSD
Sample Info: 51556

Column phase: Vydac201TP54

Instrument: slc02.i

Operator: rood
Column diameter: 4.60



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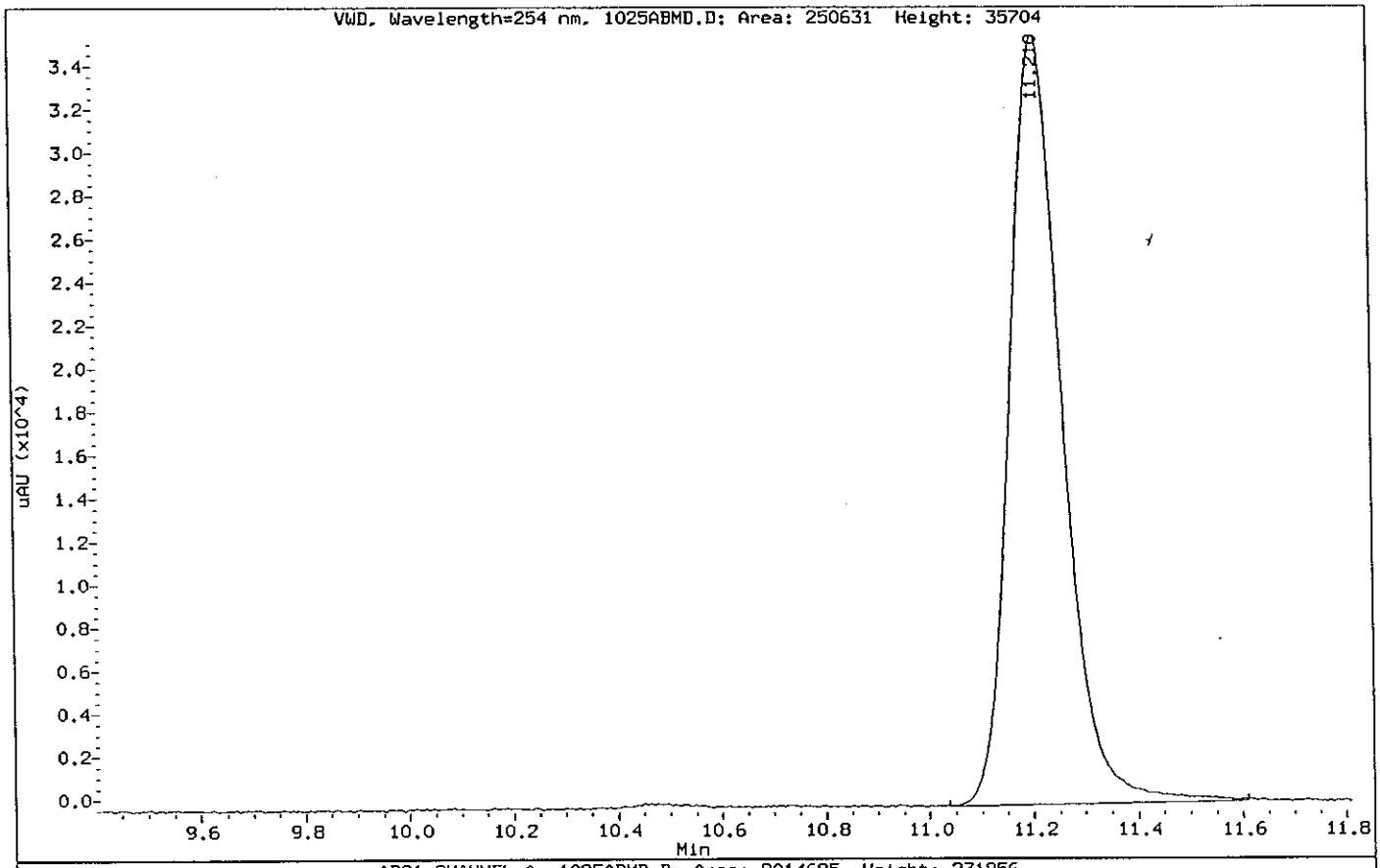
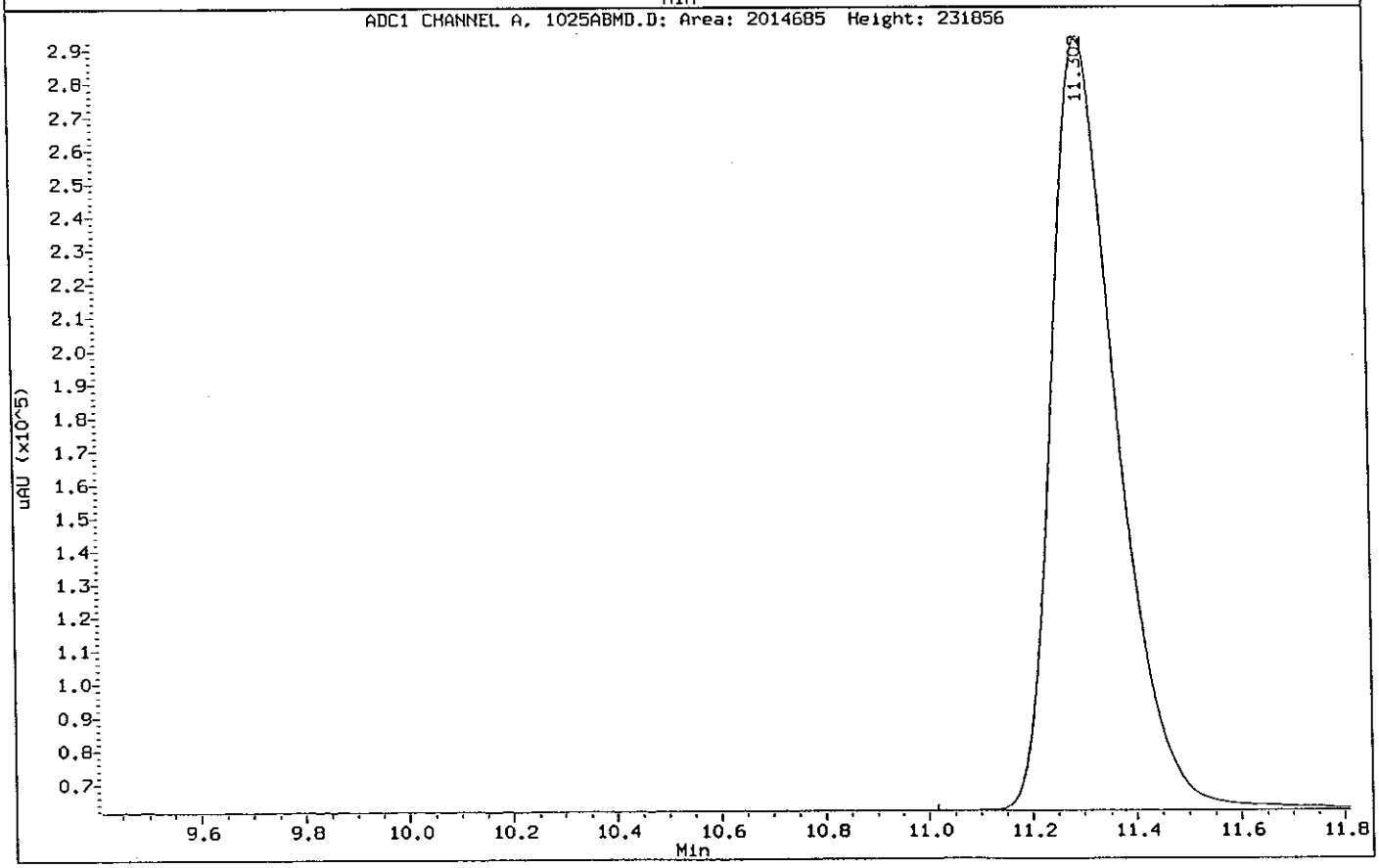
Injection Date: 29-OCT-2001 08:55
Instrument: slc02.i
Client Sample ID: 1025SBLKSD

Compound: Carbazole (ISTD)
CAS Number: 86-74-8





JM17

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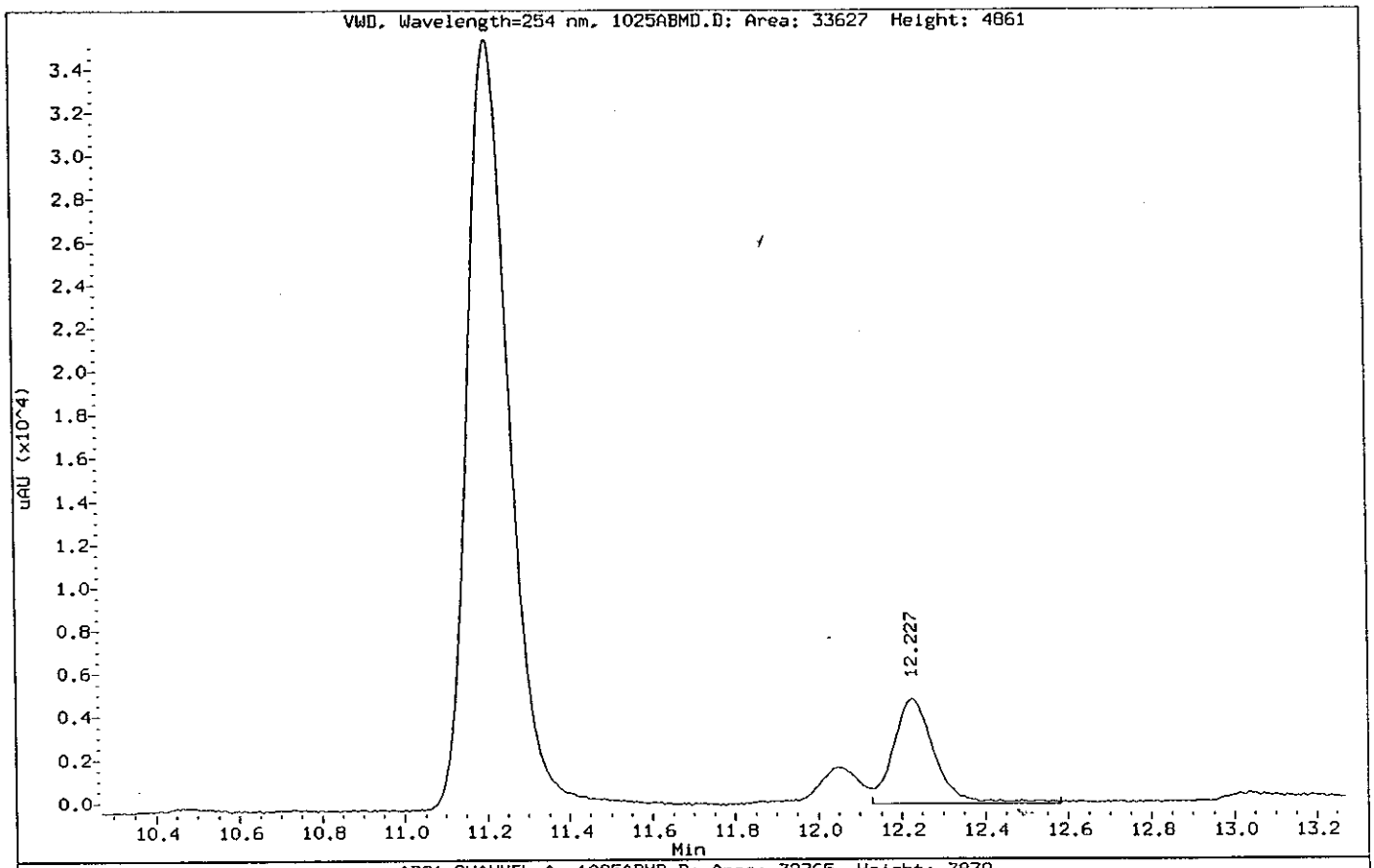
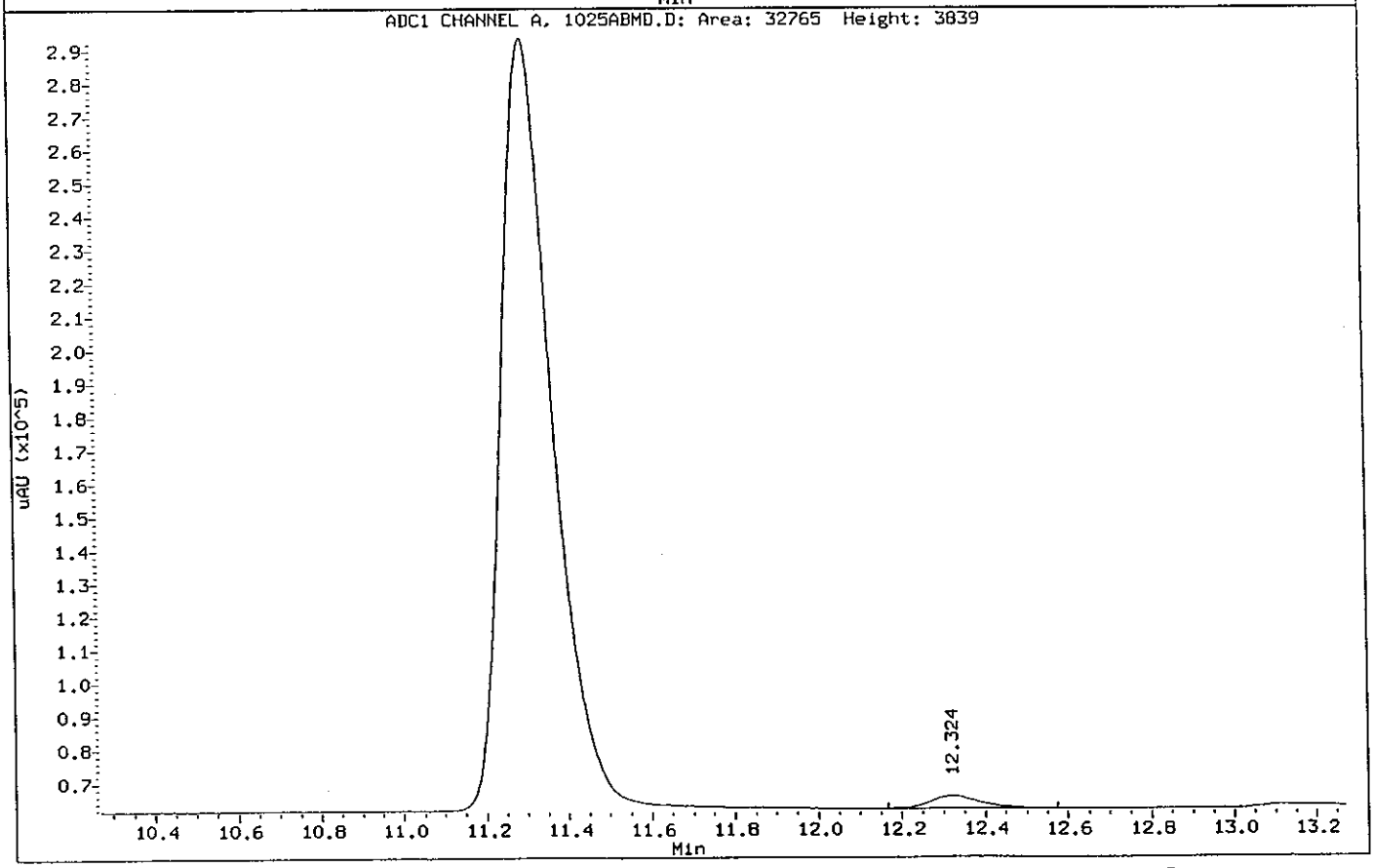
Instrument: slc02.i
Client Sample ID: 1025SBLKSD

Compound: Naphthalene
CAS Number: 91-20-3





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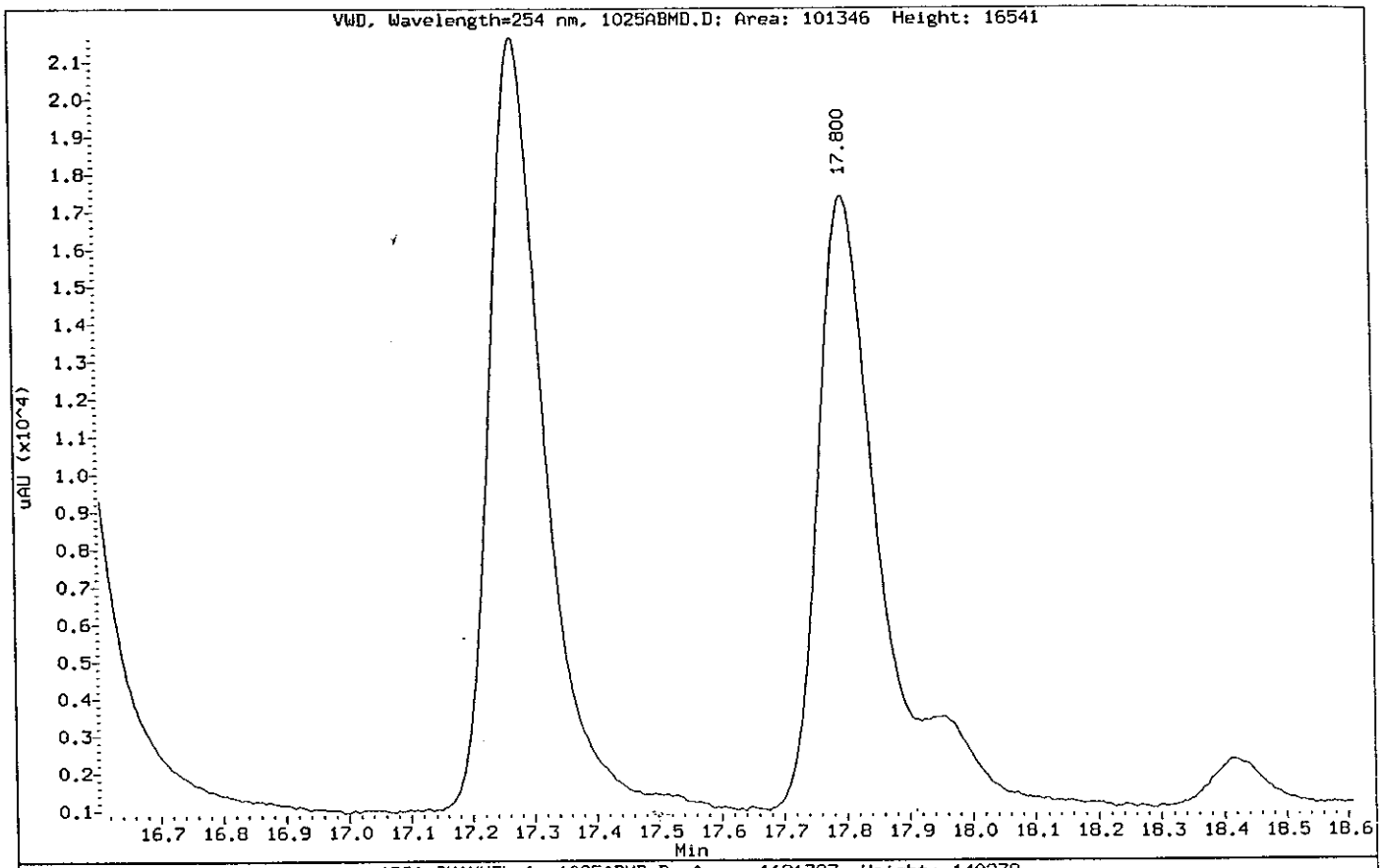
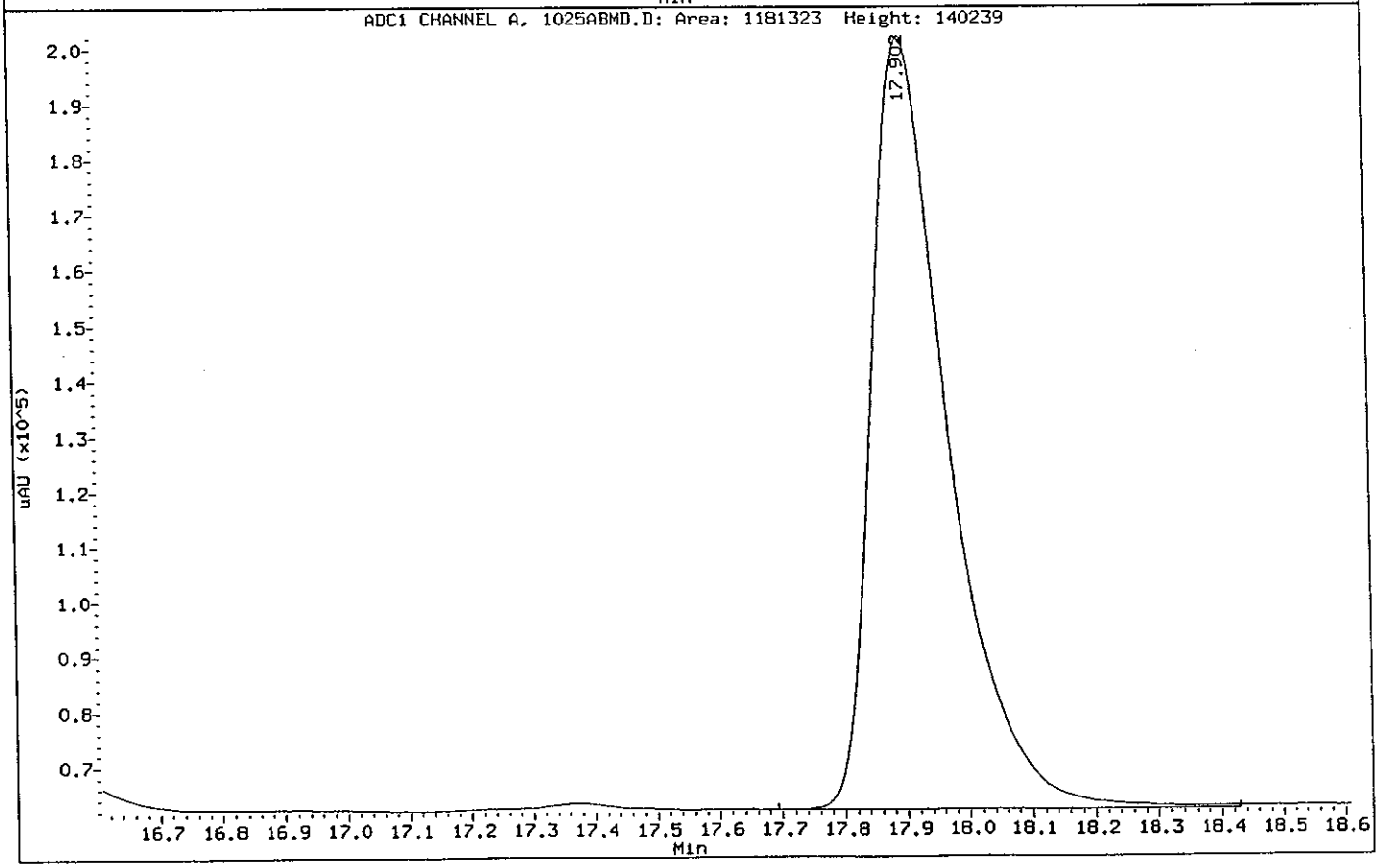
Instrument: slc02.i
Client Sample ID: 1025SBLKSD

Compound: Pyrene
CAS Number: 129-00-0





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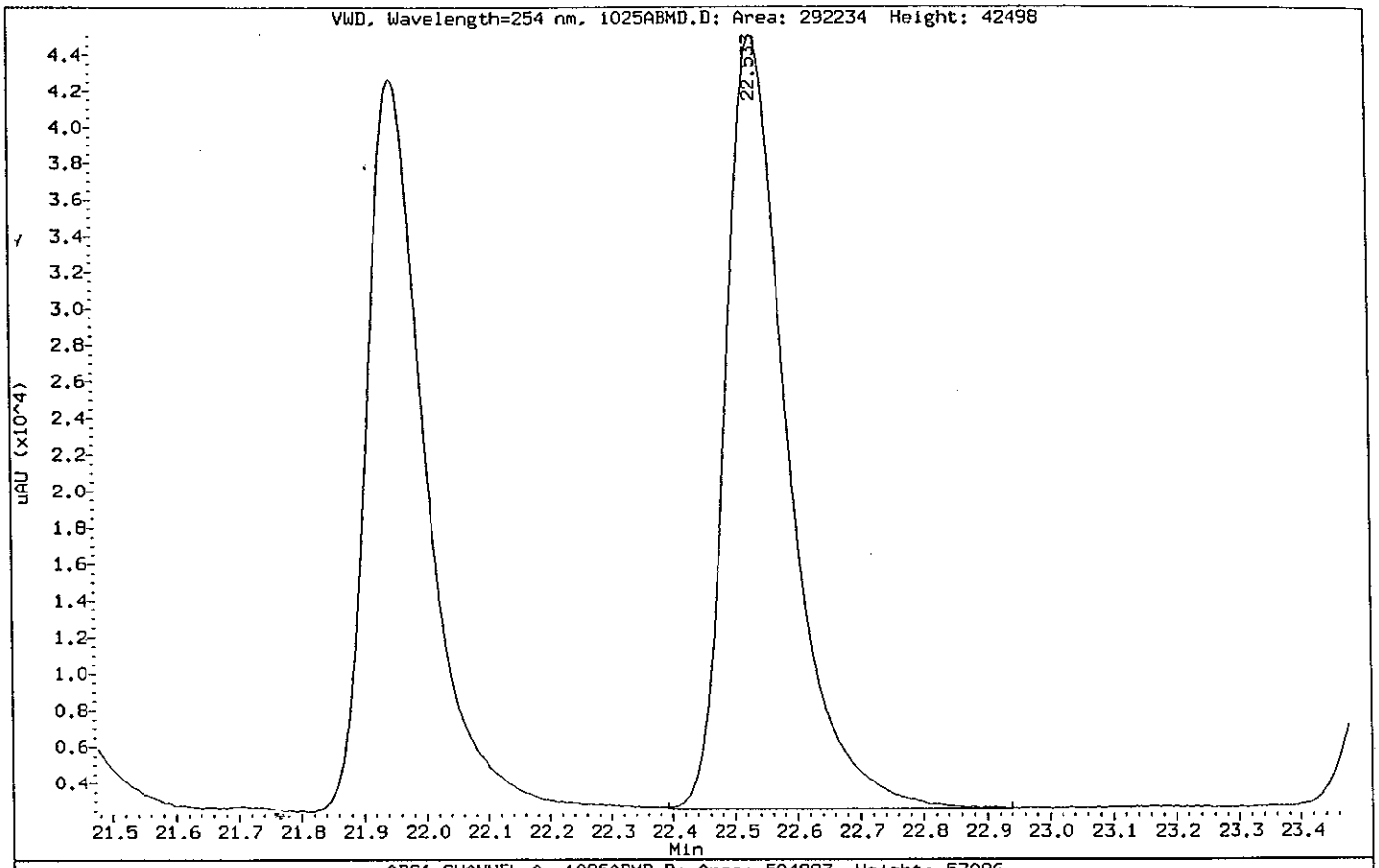
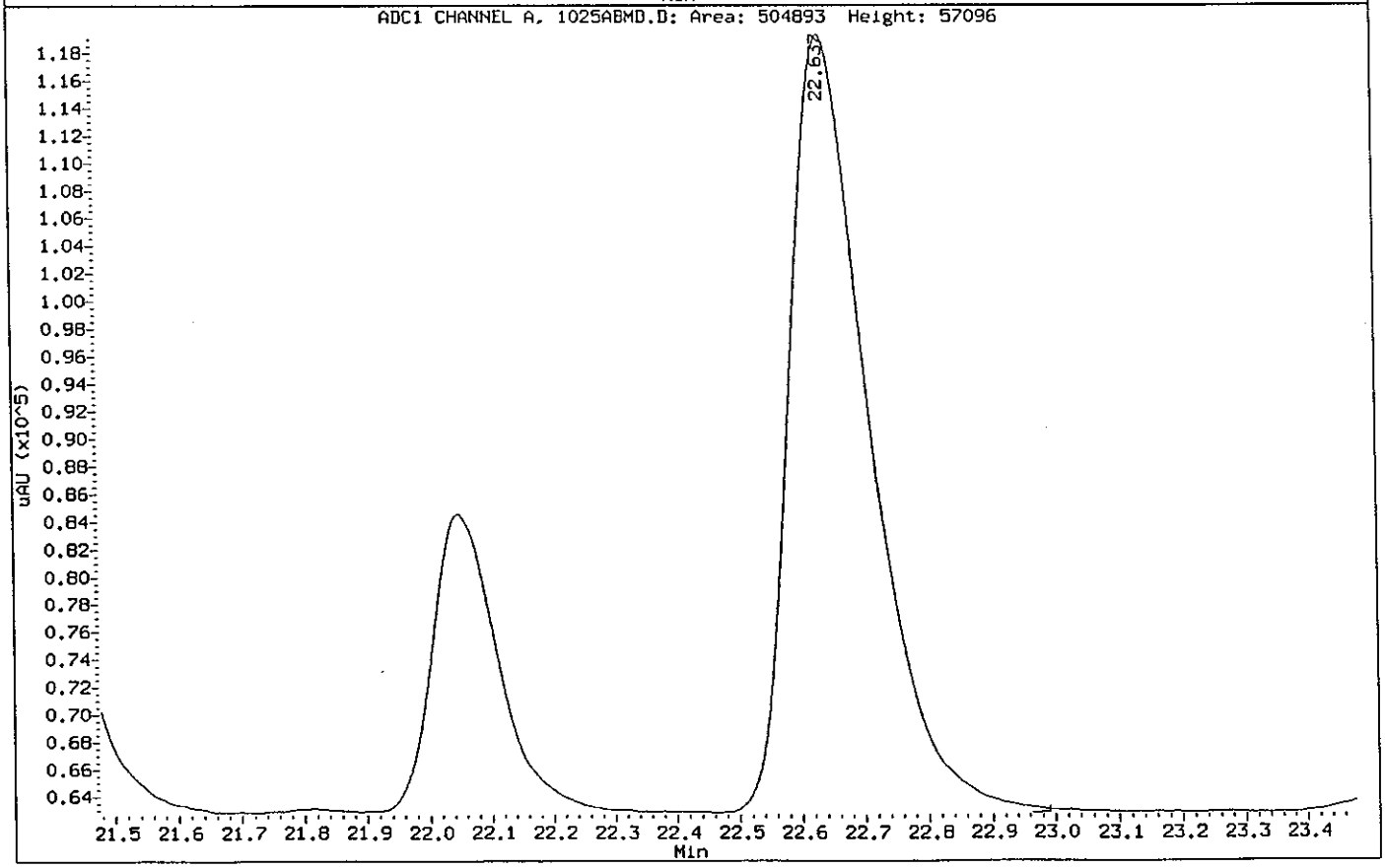
Injection Date: 29-OCT-2001 08:55
Instrument: slc02.i
Client Sample ID: 1025SBLKSD

Compound: Benzo(a)pyrene
CAS Number: 50-32-8





PEL Laboratories

Data file : \\SVHPLC\ee\chem\slc02.i\L21028R1.b\1025ABMS.D
Lab Smp Id: 51555 Client Smp ID: 1025SBLKMS
Inj Date : 29-OCT-2001 08:20
Operator : rood Inst ID: slc02.i
Smp Info : 51555
Misc Info :
Comment :
Method : \\SVHPLC\ee\chem\slc02.i\L21028R1.b\8310S.m
Meth Date : 02-Nov-2001 08:36 jdonnelly Quant Type: ISTD
Cal Date : 28-OCT-2001 20:26 Cal File: PT2UGML.D
Als bottle: 4 QC Sample: MS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: navy50.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

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	REL RT	SIGNAL	RESPONSE	(ug/ml)	(ug/kg)	TARGET RANGE	RATIO
* 1 Carbazole (ISTD)						CAS #: 86-74-8		
11.240	10.610	(1.000)	VWD1A	259276			80.00- 120.00	100.00(M)
11.329	10.610	(1.008)	ADC1A	2026608	10.0000		652.03- 978.05	781.64
2 Naphthalene						CAS #: 91-20-3		
12.250	11.770	(1.090)	VWD1A	32875	5.71480	173	80.00- 120.00	100.00(a)
12.342	11.770	(1.098)	ADC1A	33328	5.34614	162	82.40- 123.60	101.38
3 Acenaphthylene						CAS #: 208-96-8		
13.410	13.013	(1.193)	VWD1A	26772	6.33295	192		(M)
4 1-Methyl naphthalene						CAS #: 90-12-0		
14.003	13.633	(1.246)	VWD1A	24340	7.01592	213	80.00- 120.00	100.00
14.087	13.633	(1.253)	ADC1A	69180	5.38835	163	296.60- 444.90	284.22

RT	EXP RT	REL RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO
5 2-Methyl naphthalene						CAS #: 91-57-6		
14.316	13.973	(1.274)	VWD1A	29643	6.03492	183	80.00- 120.00	100.00
14.404	13.973	(1.282)	ADC1A	53745	4.94954	150	191.55- 287.32	181.31
6 Acenaphthene						CAS #: 83-32-9		
14.636	14.310	(1.302)	VWD1A	14400	6.46850	196	80.00- 120.00	100.00
14.727	14.310	(1.310)	ADC1A	155715	6.10264	185	964.12-1446.17	1081.35
7 Fluorene						CAS #: 86-73-7		
14.983	14.680	(1.333)	VWD1A	177932	6.92400	210	80.00- 120.00	100.00
15.077	14.680	(1.341)	ADC1A	21356	6.86095	208	9.06- 13.59	12.00
8 Phenanthrene						CAS #: 85-01-8		
15.770	15.500	(1.403)	VWD1A	527168	7.37495	223	80.00- 120.00	100.00
15.862	15.500	(1.411)	ADC1A	479853	7.07379	214	78.58- 117.87	91.02
9 Anthracene						CAS #: 120-12-7		
16.466	16.223	(1.465)	VWD1A	1170995			80.00- 120.00	100.00
16.559	16.223	(1.473)	ADC1A	62062	6.02260	182	5.00- 7.50	5.30
10 Fluoranthene						CAS #: 206-44-0		
17.283	17.066	(1.538)	VWD1A	131117	7.67291	232	80.00- 120.00	100.00
17.242	17.066	(1.534)	ADC1A	1319			6.36- 9.54	1.01
11 Pyrene						CAS #: 129-00-0		
17.810	17.606	(1.585)	VWD1A	95470	7.27942	220	80.00- 120.00	100.00(M)
17.907	17.606	(1.593)	ADC1A	1184814	6.76288	205	930.64-1395.96	1241.03
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.743	18.593	(1.668)	VWD1A	262867	17.3014	524	80.00- 120.00	100.00
18.839	18.593	(1.676)	ADC1A	7350696	17.6759	536	2246.35-3369.53	2796.36
13 Benzo(a)Anthracene						CAS #: 56-55-3		
19.566	19.426	(1.741)	VWD1A	309407	7.71813	234	80.00- 120.00	100.00
19.662	19.426	(1.749)	ADC1A	3351966	7.77985	236	881.58-1322.37	1083.35
14 Chrysene						CAS #: 218-01-9		
19.953	19.820	(1.775)	VWD1A	431462	7.53310	228	80.00- 120.00	100.00
20.049	19.820	(1.784)	ADC1A	1008670	7.39446	224	190.14- 285.21	233.78
15 Benzo(b)Fluoranthene						CAS #: 205-99-2		
21.346	21.253	(1.899)	VWD1A	351330	7.95008	241	80.00- 120.00	100.00
21.441	21.253	(1.908)	ADC1A	79557	6.87572	208	20.85- 31.28	22.64
16 Benzo(k)Fluoranthene						CAS #: 207-08-9		
21.963	21.883	(1.954)	VWD1A	262504	7.77116	235	80.00- 120.00	100.00

RT	EXP RT	REL RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	CONCENTRATIONS FINAL (ug/kg)	TARGET RANGE	RATIO
16 Benzo(k)Fluoranthene (continued)								
22.059	21.883	(1.963)	ADC1A	159943	7.24306	219	52.76- 79.15	60.93
17 Benzo(a)pyrene						CAS #: 50-32-8		
22.546	22.476	(2.006)	VWD1A	291076	7.39035	224	80.00- 120.00	100.00
22.646	22.476	(2.015)	ADC1A	494612	7.51723	228	138.13- 207.19	169.93
18 Dibenz(ah)Anthracene						CAS #: 53-70-3		
23.533	23.493	(2.094)	VWD1A	73132	8.35765	253	80.00- 120.00	100.00
23.634	23.493	(2.103)	ADC1A	832180	7.96268	241	949.04-1423.56	1137.92
19 Benzo(ghi)Perylene						CAS #: 191-24-2		
24.260	24.226	(2.158)	VWD1A	113180	7.59791	230	80.00- 120.00	100.00
24.357	24.226	(2.167)	ADC1A	206309	6.83788	207	155.32- 232.98	182.28
20 Indeno(123cd)Pyrene						CAS #: 193-39-5		
24.730	24.703	(2.200)	VWD1A	297225	7.91425	240	80.00- 120.00	100.00(M)
24.842	24.703	(2.210)	ADC1A	555			0.00- 0.00	0.19

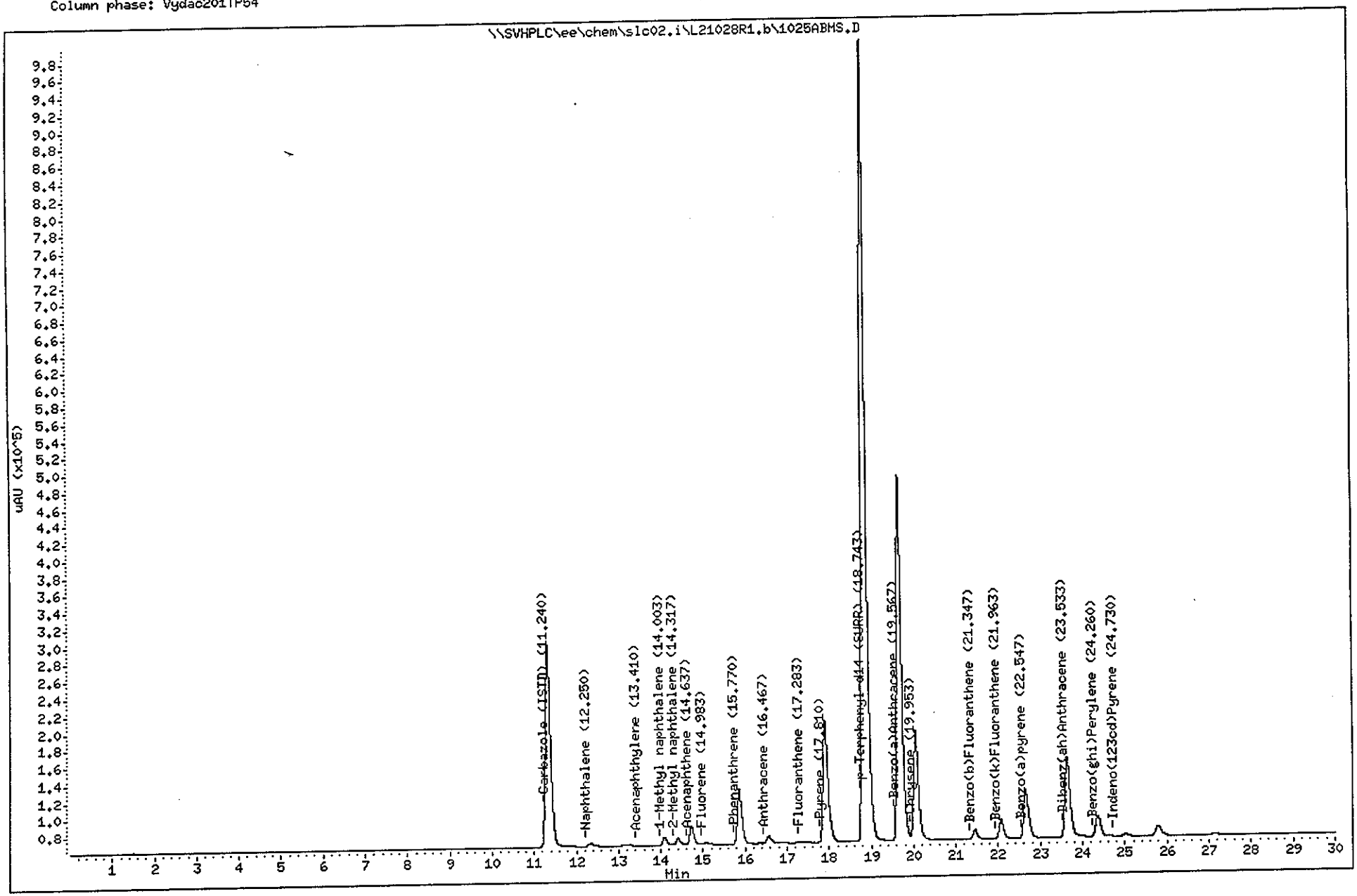
QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\1025ABMS.D
Date : 29-OCT-2001 08:20
Client ID: 1025SBLKMS
Sample Info: 51555

Instrument: slc02.i
Operator: rood
Column diameter: 4.60

Column phase: Vydac201TP54



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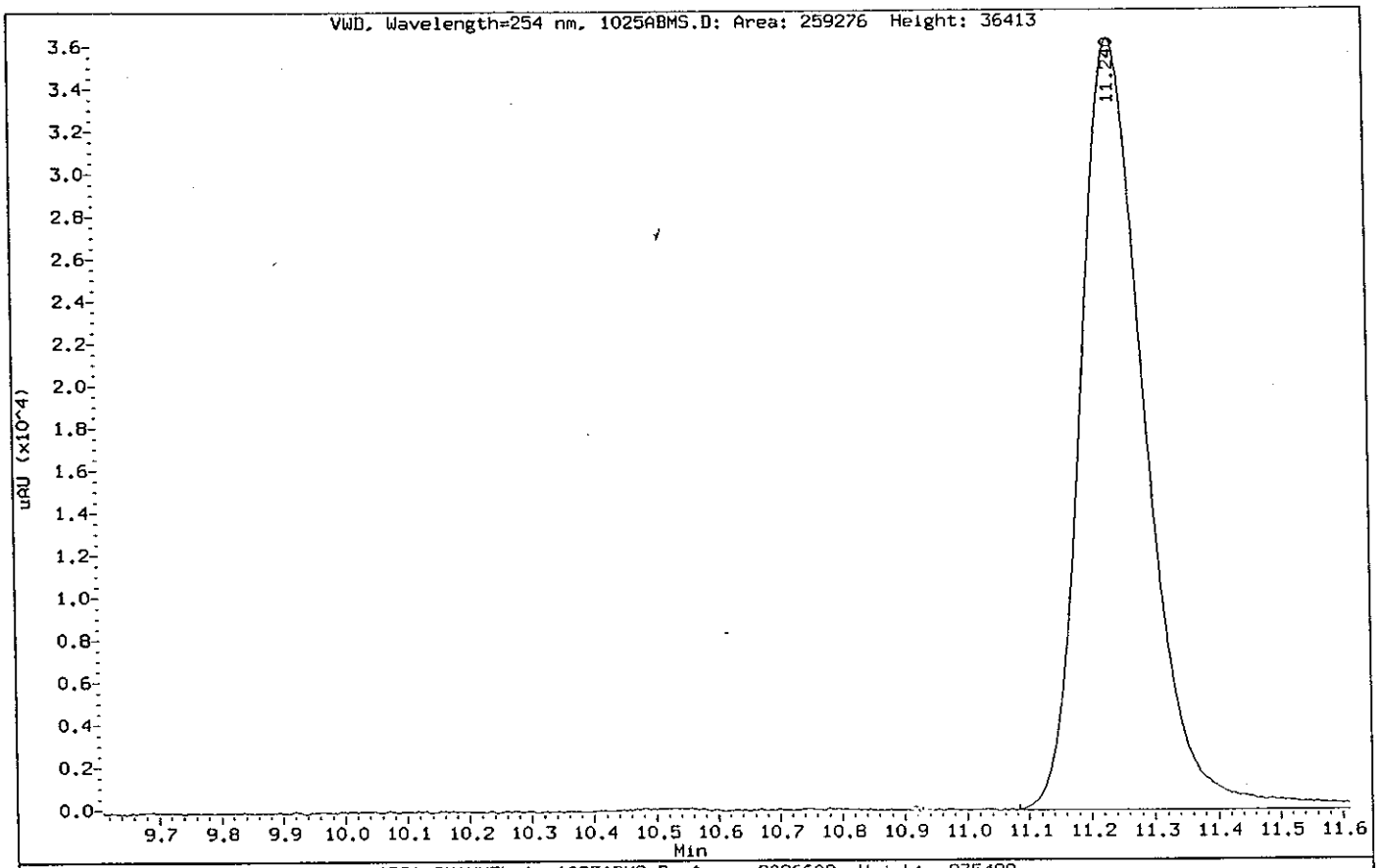
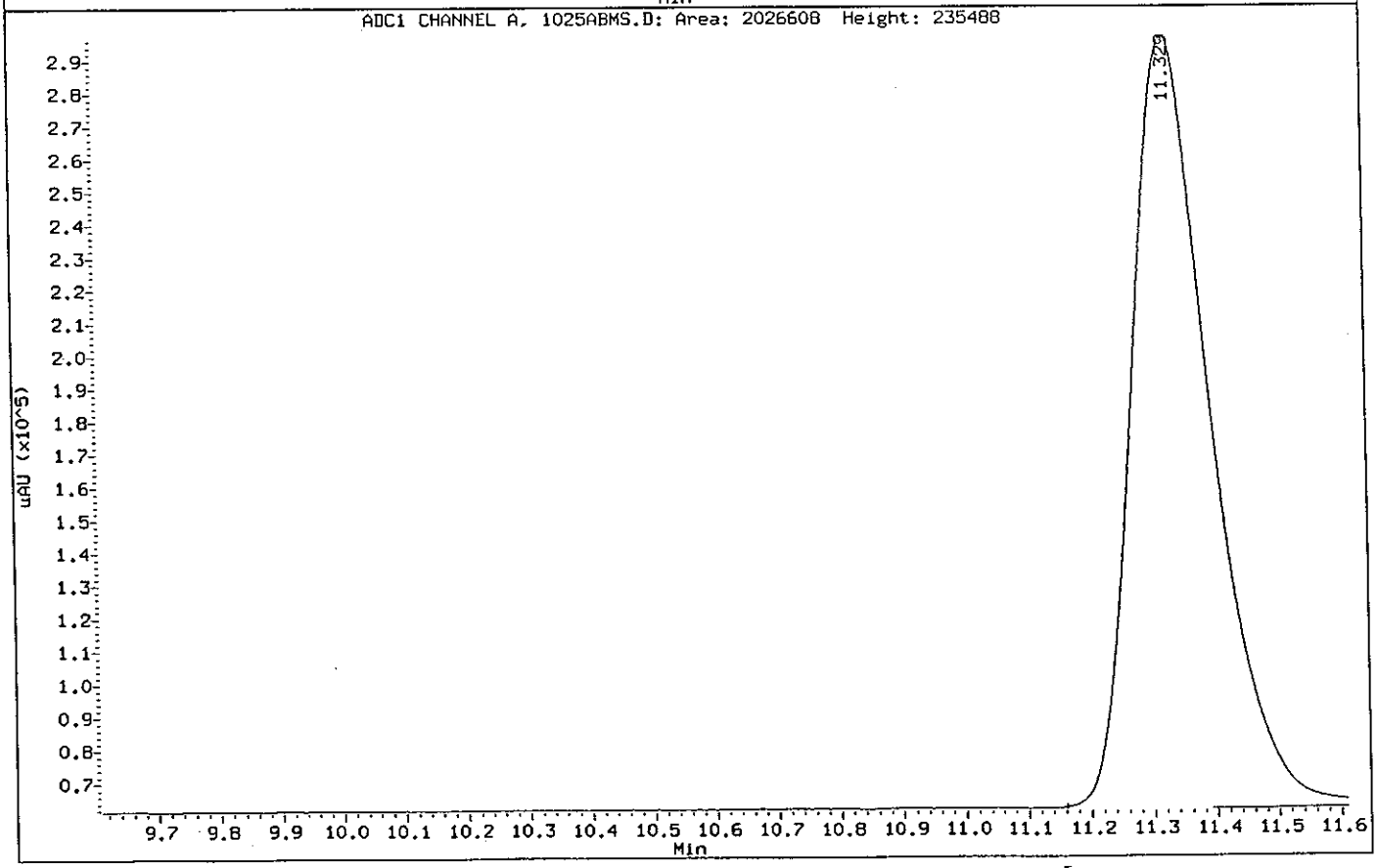
Injection Date: 29-OCT-2001 08:20
Instrument: slc02.i
Client Sample ID: 1025SBLKMS

Compound: Carbazole (ISTD)
CAS Number: 86-74-8





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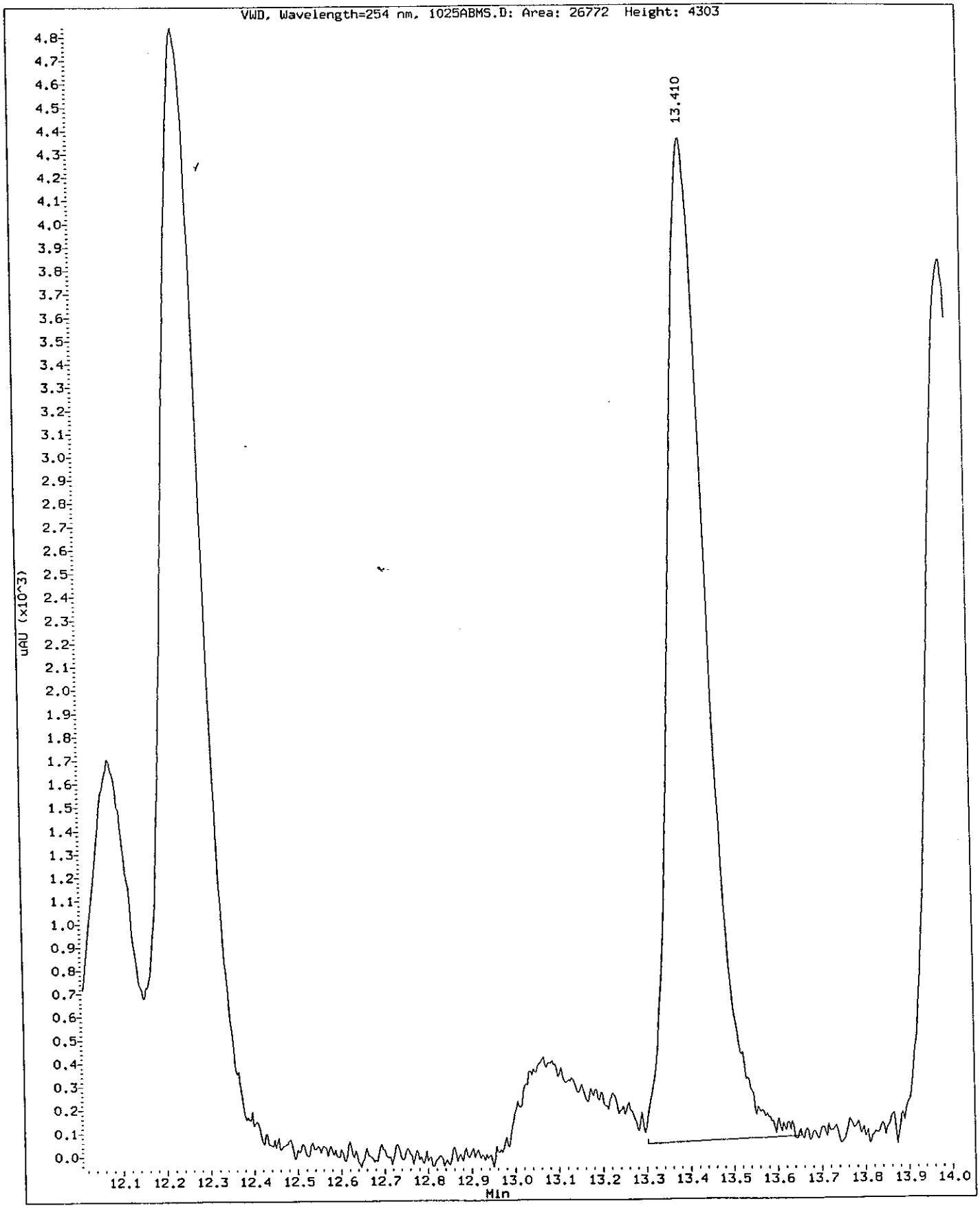
Injection Date: 29-OCT-2001 08:20
Instrument: slc02.i
Client Sample ID: 1025SBLKMS

Compound: Acenaphthylene
CAS Number: 208-96-8



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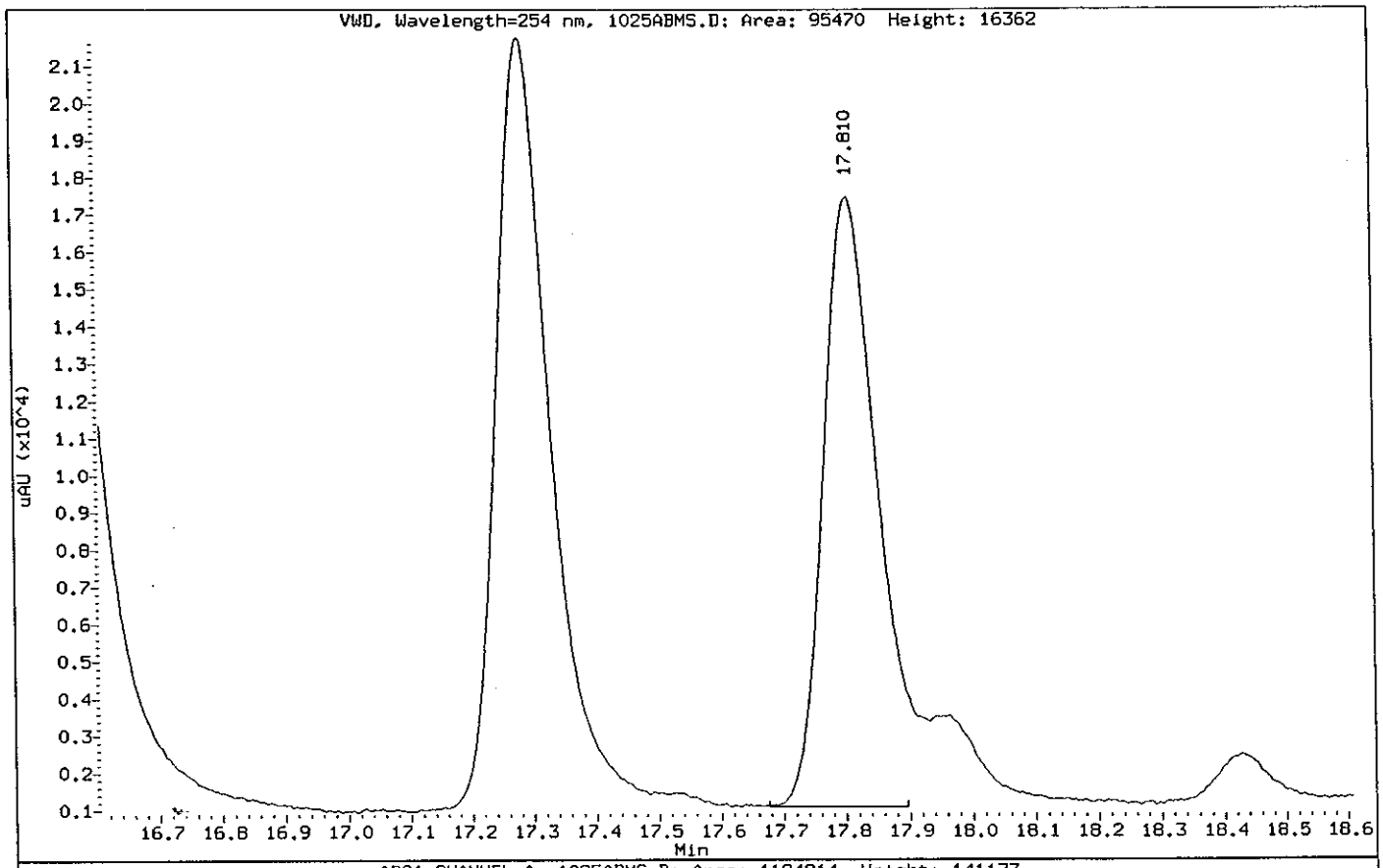
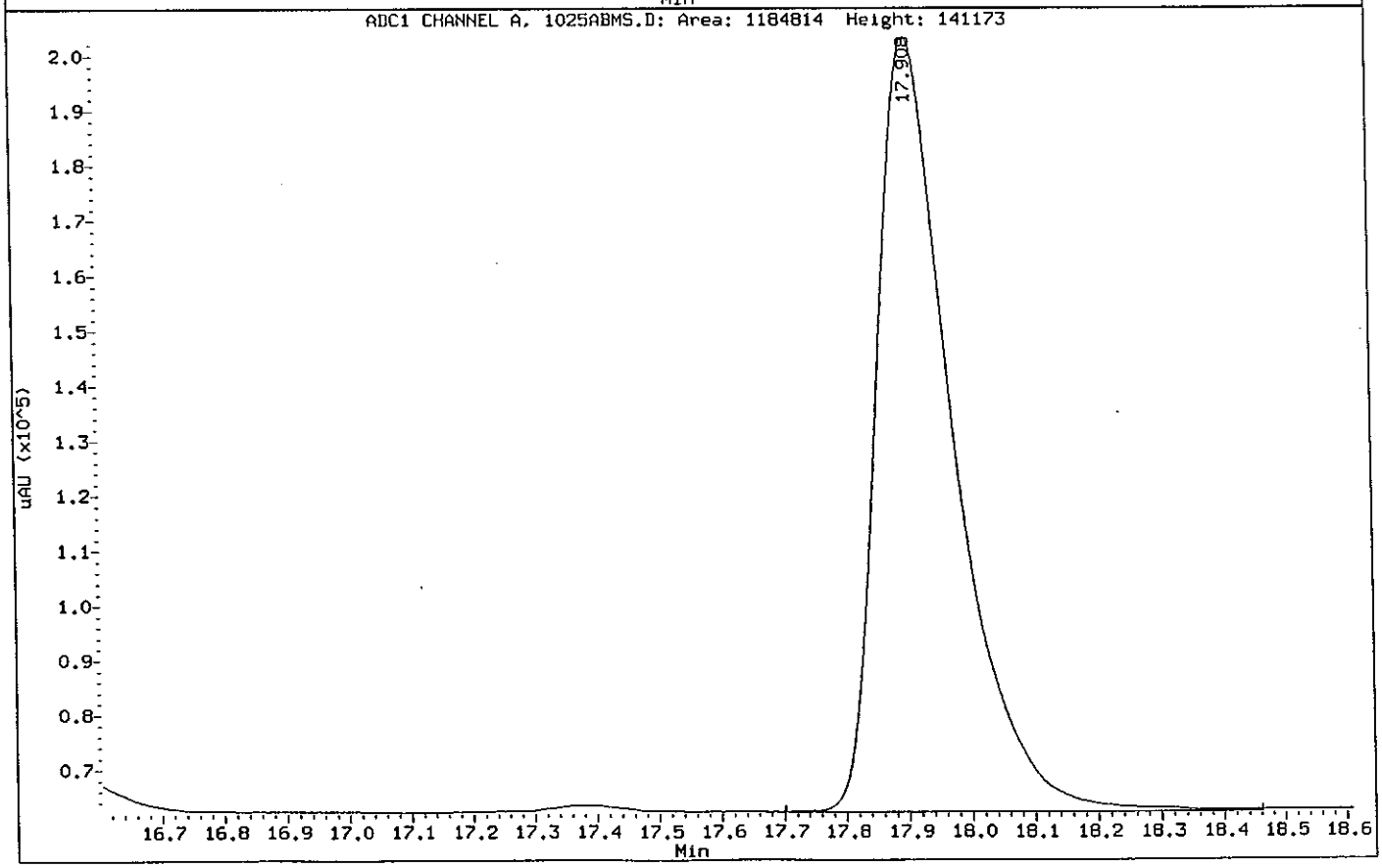
Instrument: slc02.i
Client Sample ID: 1025SBLKMS

Compound: Pyrene
CAS Number: 129-00-0





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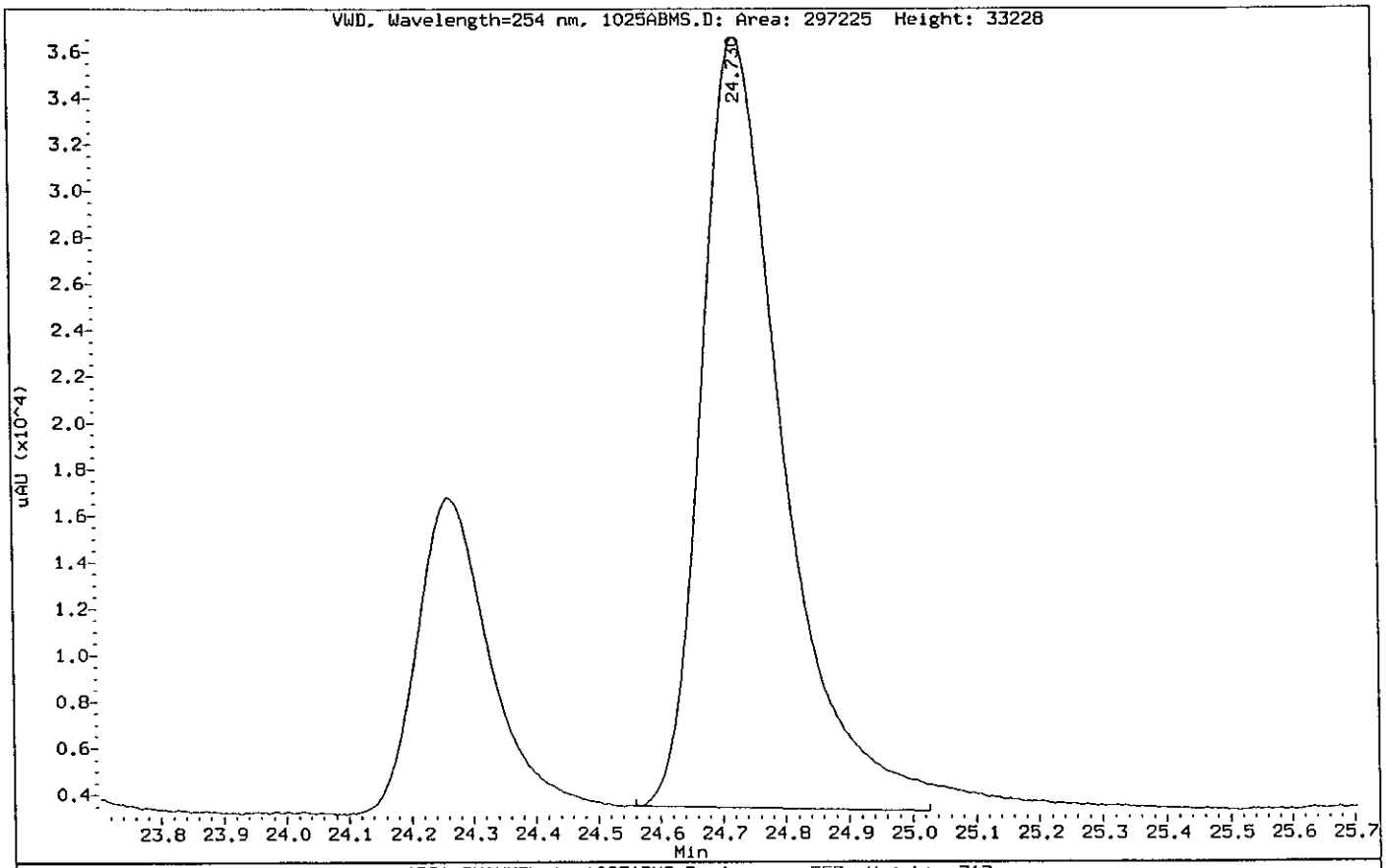
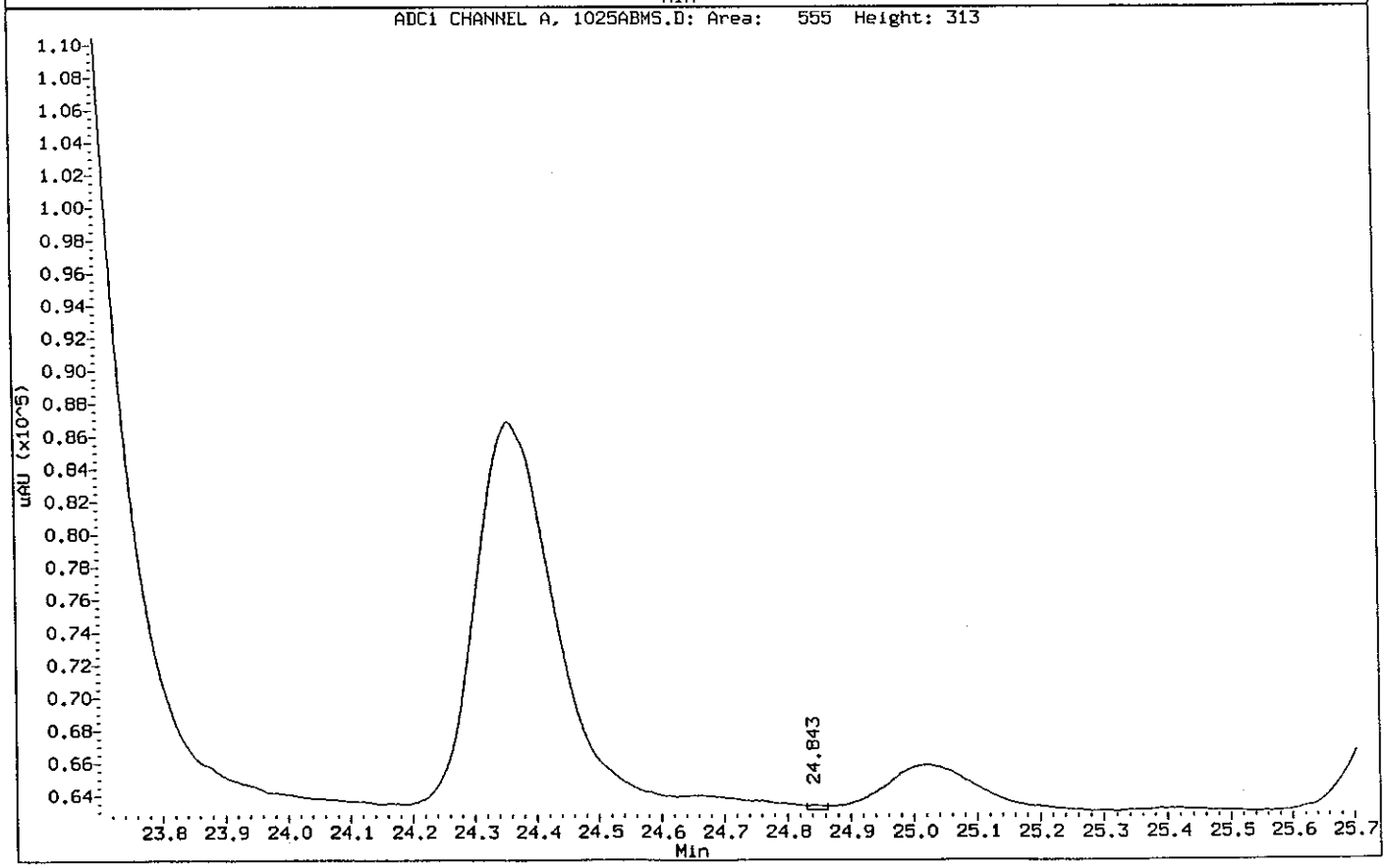
Injection Date: 29-OCT-2001 08:20
Instrument: slc02.i
Client Sample ID: 1025SBLKMS

Compound: Indeno(123cd)Pyrene
CAS Number: 193-39-5





PEL Laboratories

Data file : \\SVHPLC\ee\chem\slc02.i\L21028R1.b\1025ALCS.D
Lab Smp Id: 51554 Client Smp ID: 1025SLCS
Inj Date : 29-OCT-2001 07:46
Operator : rood Inst ID: slc02.i
Smp Info : 51554
Misc Info :
Comment :
Method : \\SVHPLC\ee\chem\slc02.i\L21028R1.b\8310S.m
Meth Date : 02-Nov-2001 08:36 jdonnelly Quant Type: ISTD
Cal Date : 28-OCT-2001 20:26 Cal File: PT2UGML.D
Als bottle: 3 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: navy50.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

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	REL RT	SIGNAL	RESPONSE	(ug/ml)	(ug/kg)	TARGET RANGE	RATIO
* 1 Carbazole (ISTD)						CAS #: 86-74-8		
11.253	10.610	(1.000)	VWD1A	260976			80.00- 120.00	100.00
11.342	10.610	(1.000)	ADC1A	2053844	10.0000		652.03- 978.05	786.99
2 Naphthalene						CAS #: 91-20-3		
12.266	11.770	(1.090)	VWD1A	34183	5.86338	178	80.00- 120.00	100.00(a)
12.356	11.770	(1.098)	ADC1A	34550	5.46867	166	82.40- 123.60	101.07
3 Acenaphthylene						CAS #: 208-96-8		
13.420	13.013	(1.193)	VWD1A	27543	6.42893	195		
4 1-Methyl naphthalene						CAS #: 90-12-0		
14.006	13.633	(1.245)	VWD1A	23726	6.74824	204	80.00- 120.00	100.00(M)
14.097	13.633	(1.253)	ADC1A	67764	5.20807	158	296.60- 444.90	285.61

RT	EXP RT	REL RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO
5 2-Methyl naphthalene						CAS #: 91-57-6		
14.326	13.973	(1.273)	VWD1A	32934	6.61602	200	80.00- 120.00	100.00(M)
14.414	13.973	(1.281)	ADC1A	57561	5.23067	158	191.55- 287.32	174.78
6 Acenaphthene						CAS #: 83-32-9		
14.650	14.310	(1.302)	VWD1A	14510	6.43148	195	80.00- 120.00	100.00
14.736	14.310	(1.309)	ADC1A	163202	6.31124	191	964.12-1446.17	1124.76
7 Fluorene						CAS #: 86-73-7		
14.993	14.680	(1.332)	VWD1A	183473	7.04495	213	80.00- 120.00	100.00
15.084	14.680	(1.340)	ADC1A	22136	7.01723	213	9.06- 13.59	12.06
8 Phenanthrene						CAS #: 85-01-8		
15.776	15.500	(1.402)	VWD1A	554654	7.65657	232	80.00- 120.00	100.00
15.869	15.500	(1.410)	ADC1A	505642	7.35512	223	78.58- 117.87	91.16
9 Anthracene						CAS #: 120-12-7		
16.473	16.223	(1.464)	VWD1A	1222463			80.00- 120.00	100.00
16.566	16.223	(1.472)	ADC1A	66591	6.37641	193	5.00- 7.50	5.45
10 Fluoranthene						CAS #: 206-44-0		
17.290	17.066	(1.536)	VWD1A	138468	7.99564	242	80.00- 120.00	100.00(M)
17.262	17.066	(1.534)	ADC1A	1407			6.36- 9.54	1.02
11 Pyrene						CAS #: 129-00-0		
17.816	17.606	(1.583)	VWD1A	104558	7.86664	238	80.00- 120.00	100.00(M)
17.911	17.606	(1.592)	ADC1A	1282585	7.22387	219	930.64-1395.96	1226.67
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.750	18.593	(1.666)	VWD1A	249921	16.2312	492	80.00- 120.00	100.00(M)
18.842	18.593	(1.674)	ADC1A	7218272	17.1273	519	2246.35-3369.53	2888.22
13 Benzo(a)Anthracene						CAS #: 56-55-3		
19.573	19.426	(1.739)	VWD1A	336644	8.28620	251	80.00- 120.00	100.00(M)
19.667	19.426	(1.748)	ADC1A	3659921	8.38196	254	881.58-1322.37	1087.18
14 Chrysene						CAS #: 218-01-9		
19.956	19.820	(1.773)	VWD1A	473287	8.15376	247	80.00- 120.00	100.00
20.054	19.820	(1.782)	ADC1A	1109971	8.02918	243	190.14- 285.21	234.52
15 Benzo(b)Fluoranthene						CAS #: 205-99-2		
21.350	21.253	(1.897)	VWD1A	377521	8.42946	255	80.00- 120.00	100.00(M)
21.446	21.253	(1.906)	ADC1A	90967	7.75758	235	20.85- 31.28	24.10
16 Benzo(k)Fluoranthene						CAS #: 207-08-9		
21.966	21.883	(1.952)	VWD1A	288062	8.41469	255	80.00- 120.00	100.00

RT	EXP RT	REL RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO	
16 Benzo(k)Fluoranthene (continued)									
22.061	21.883	(1.960)	ADC1A	180694	8.07426	245	52.76- 79.15	62.73	
17 Benzo(a)pyrene						CAS #: 50-32-8			
22.550	22.476	(2.004)	VWD1A	319645	8.00809	243	80.00- 120.00	100.00	/
22.649	22.476	(2.013)	ADC1A	545501	8.18071	248	138.13- 207.19	170.66	
18 Dibenz(ah)Anthracene						CAS #: 53-70-3			
23.536	23.493	(2.092)	VWD1A	73625	8.30242	252	80.00- 120.00	100.00	(M)
23.636	23.493	(2.100)	ADC1A	929757	8.77837	266	949.04-1423.56	1262.83	
19 Benzo(ghi)Perylene						CAS #: 191-24-2			
24.266	24.226	(2.156)	VWD1A	125918	8.34093	253	80.00- 120.00	100.00	
24.364	24.226	(2.165)	ADC1A	231865	7.58299	230	155.32- 232.98	184.14	
20 Indeno(123cd)Pyrene						CAS #: 193-39-5			
24.730	24.703	(2.198)	VWD1A	325273	8.54624	259	80.00- 120.00	100.00	(M)
25.024	24.703	(2.224)	ADC1A	29403			0.00- 0.00	9.04	

QC Flag Legend

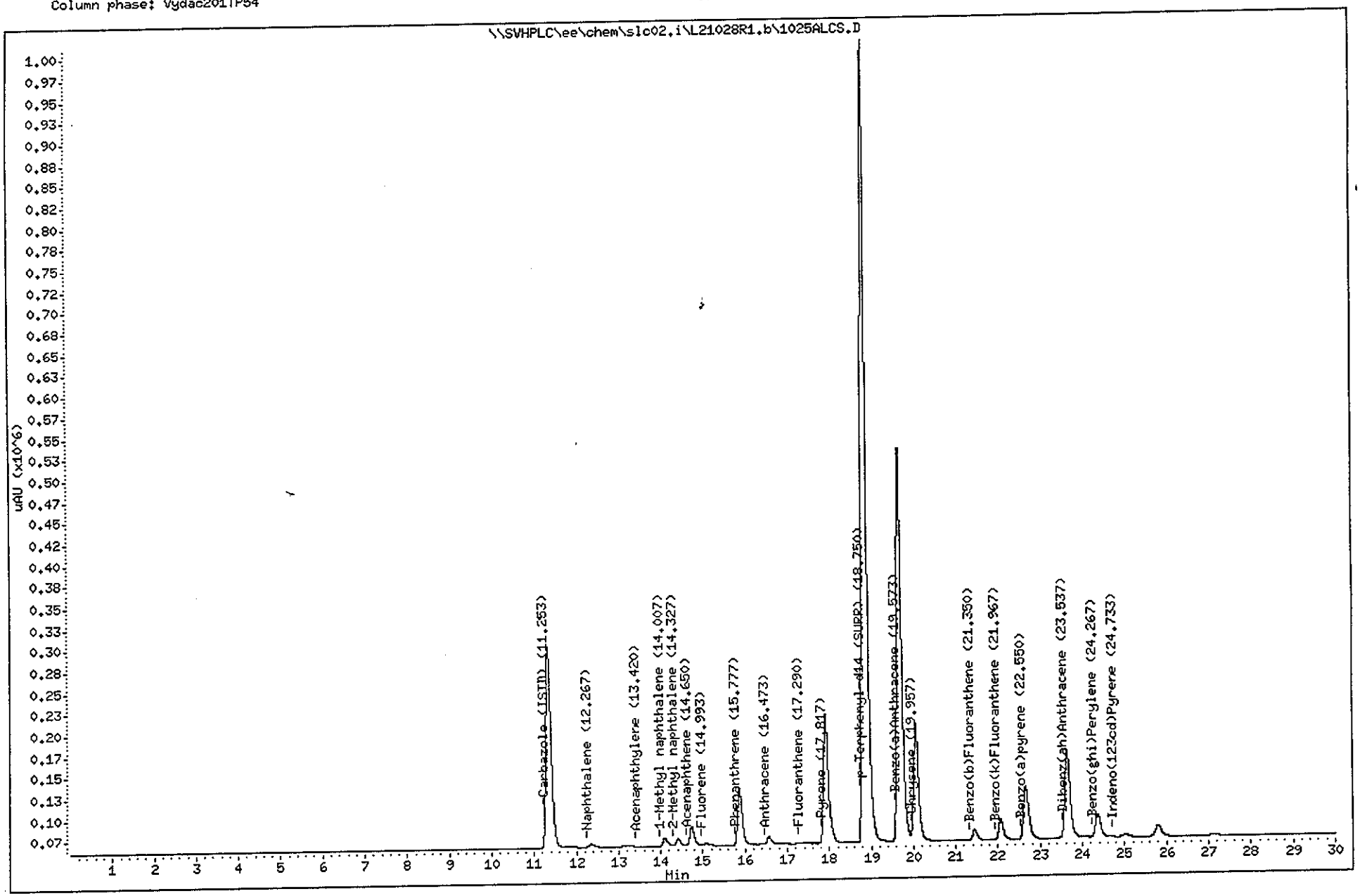
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\1025ALCS.D
Date : 29-OCT-2001 07:46
Client ID: 1025SLCS
Sample Info: 51554

Instrument: slc02.i

Operator: rood
Column diameter: 4.60

Column phase: Vydac201TP54



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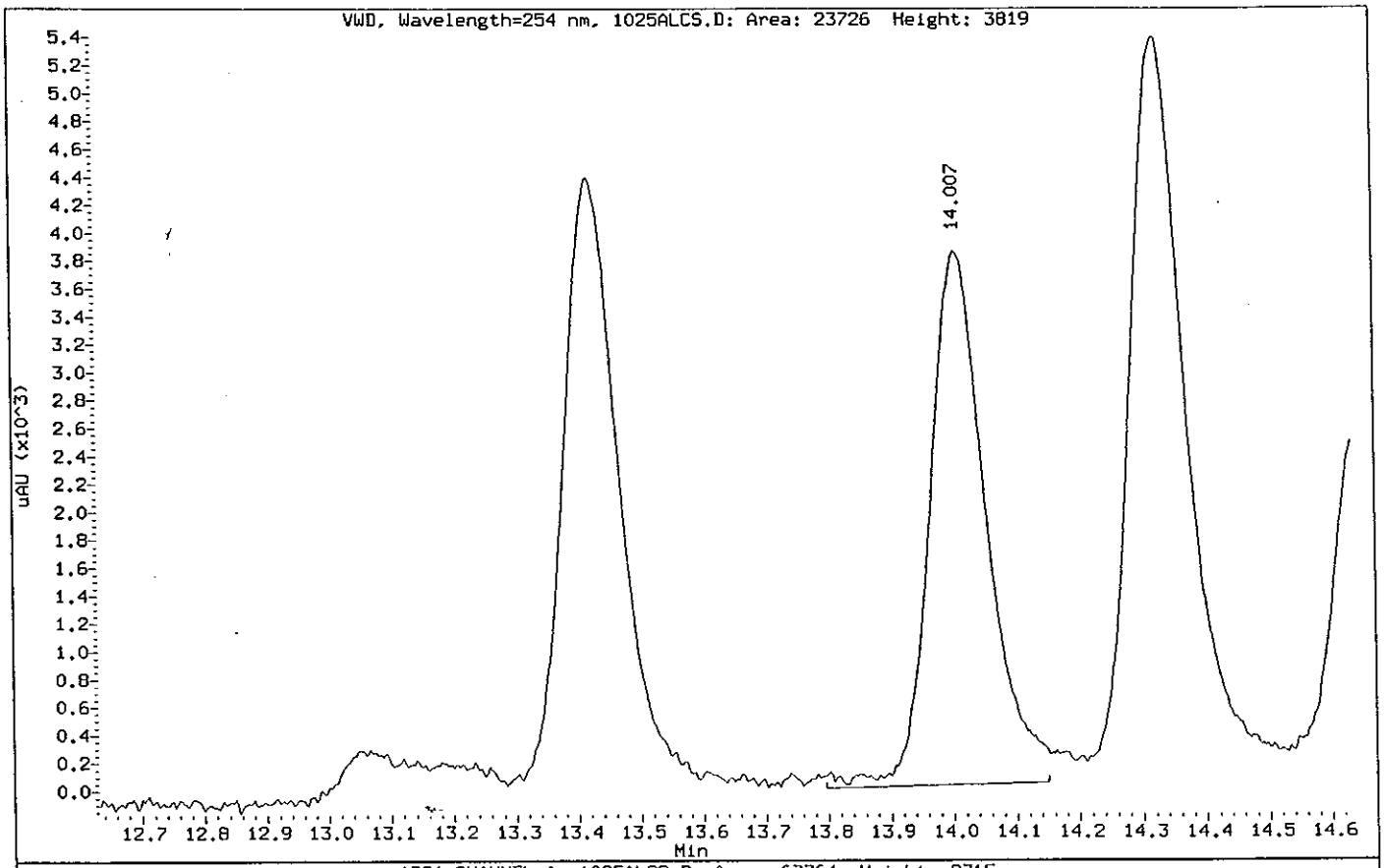
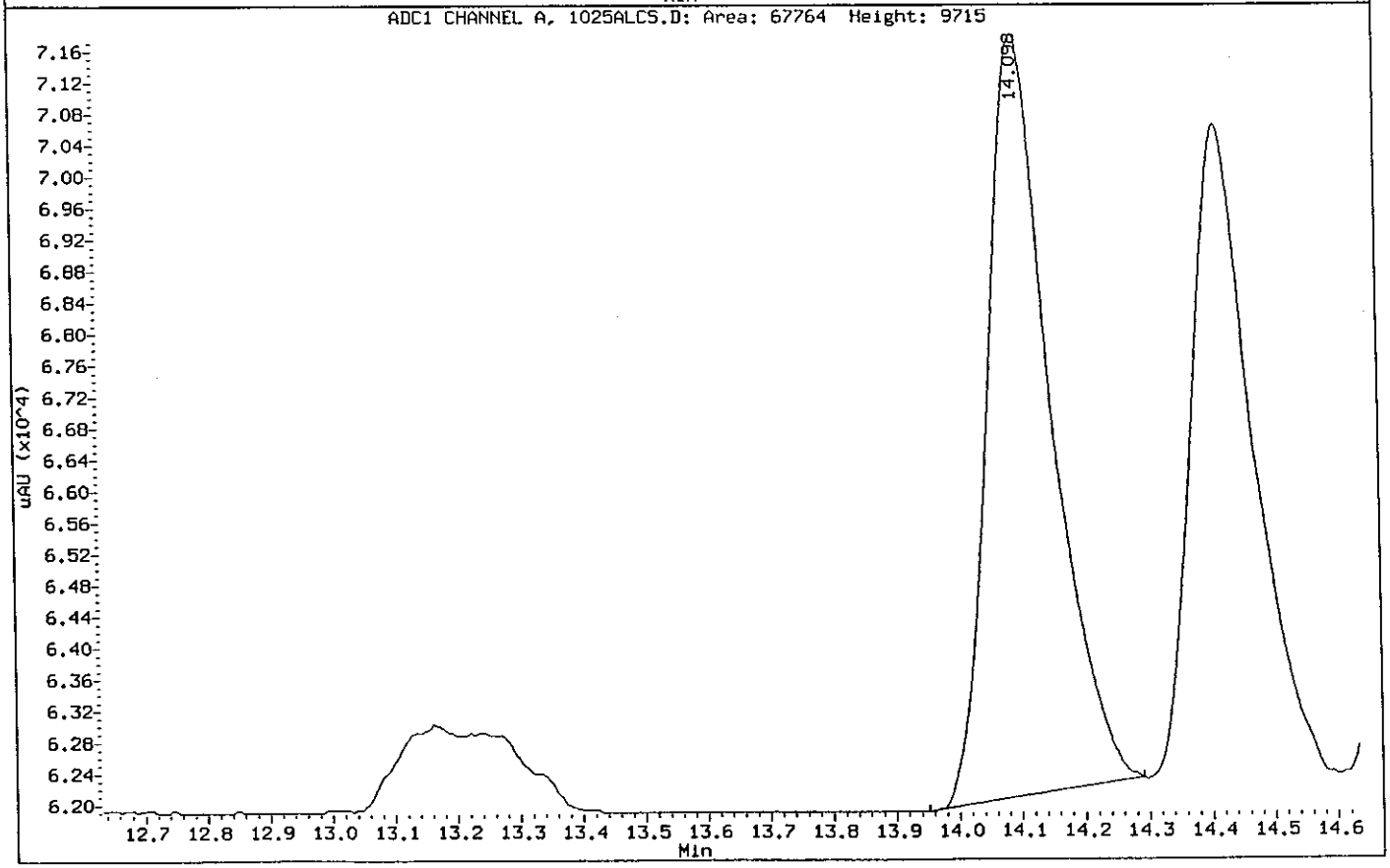
Injection Date: 29-OCT-2001 07:46
Instrument: slc02.i
Client Sample ID: 1025SLCS

Compound: 1-Methyl naphthalene
CAS Number: 90-12-0





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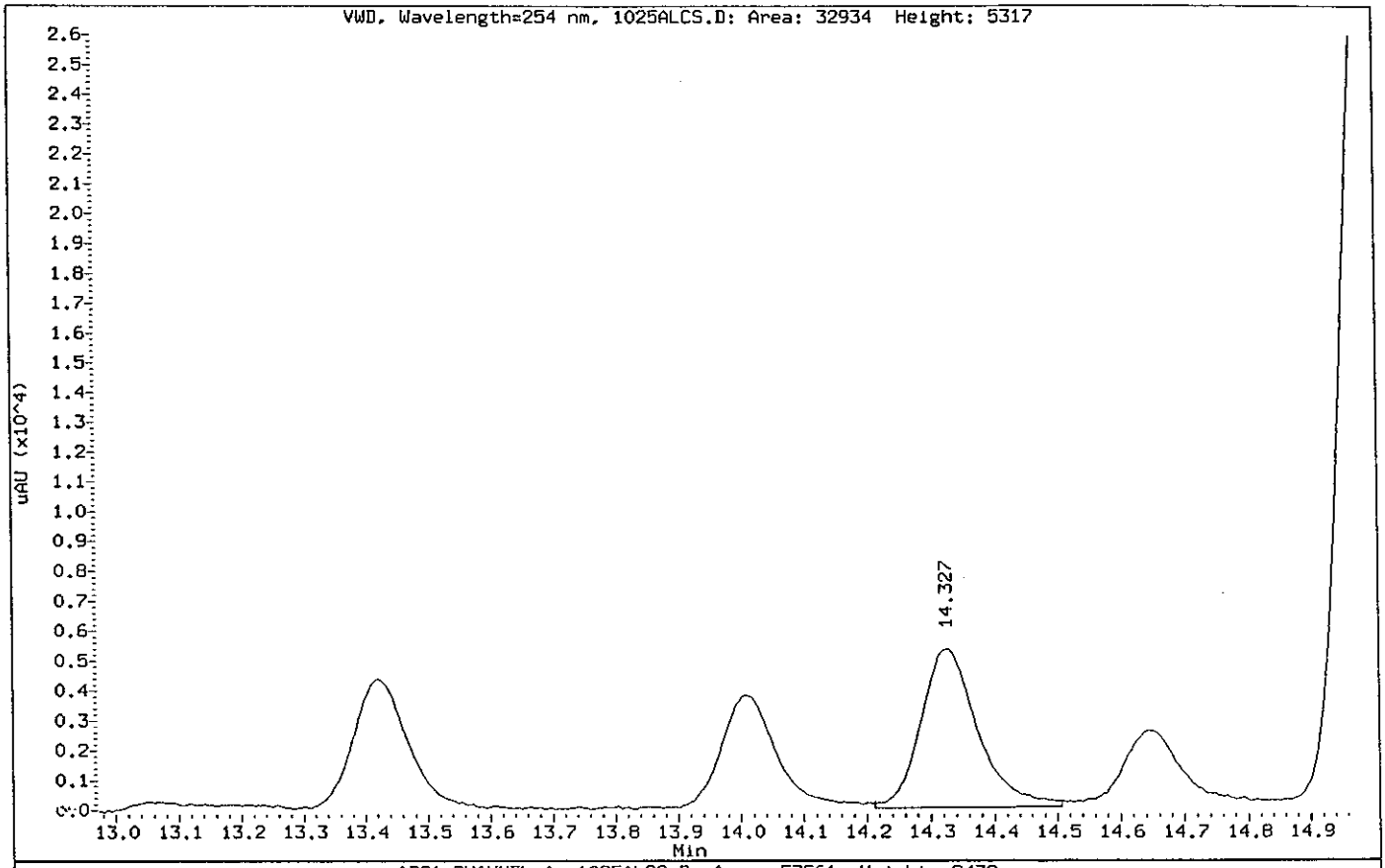
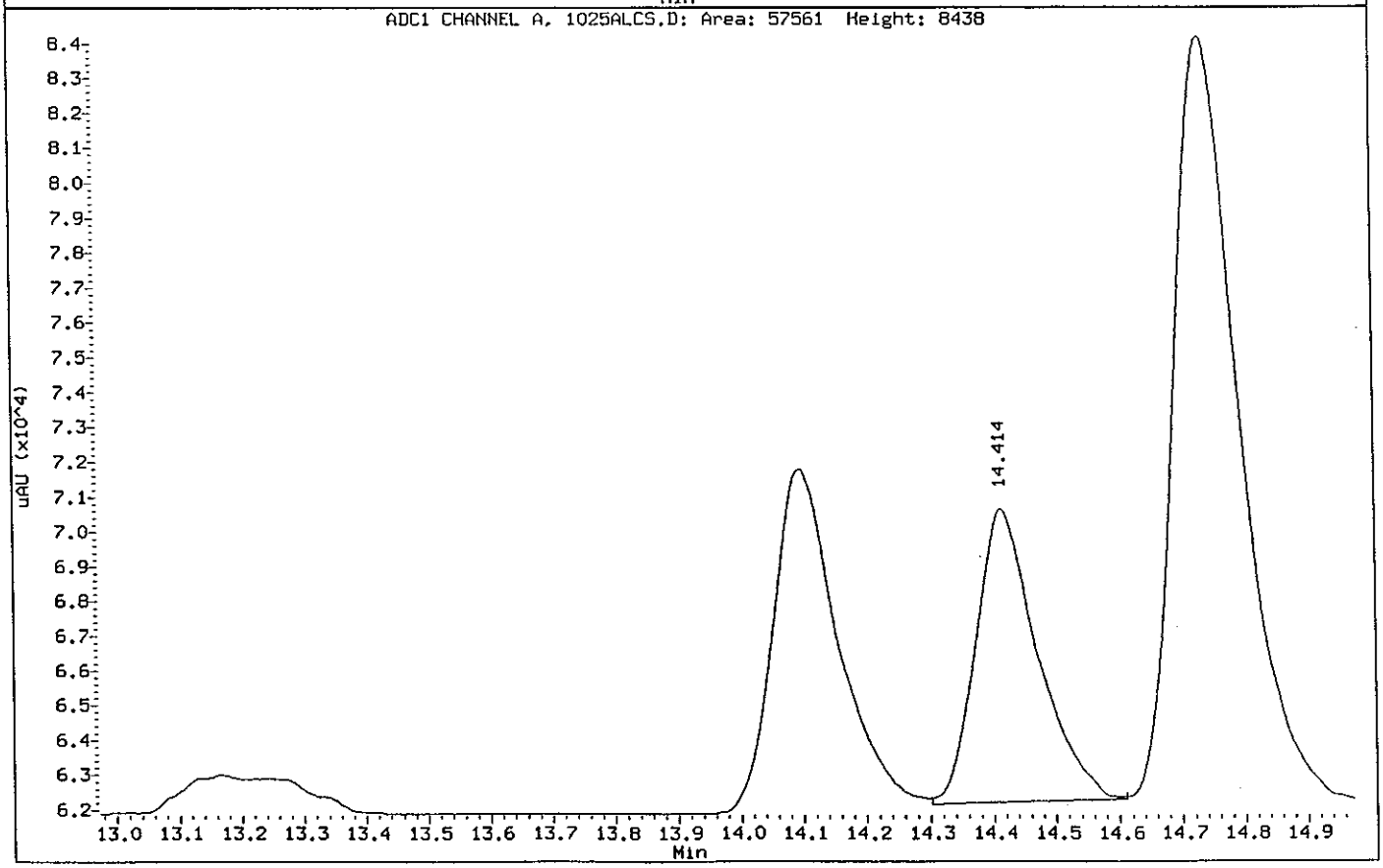
Injection Date: 29-OCT-2001 07:46
Instrument: slc02.i
Client Sample ID: 1025SLCS

Compound: 2-Methyl naphthalene
CAS Number: 91-57-6





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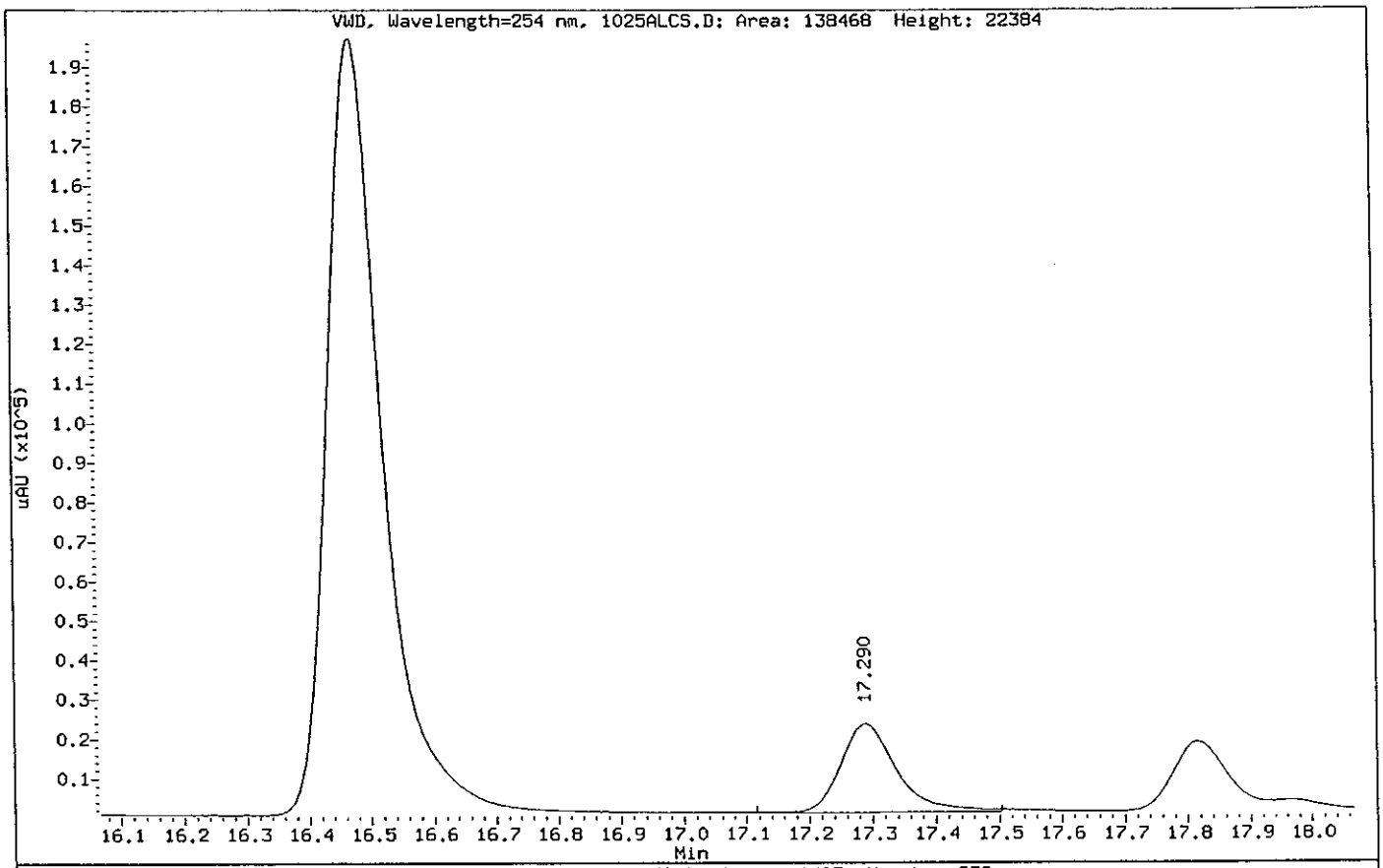
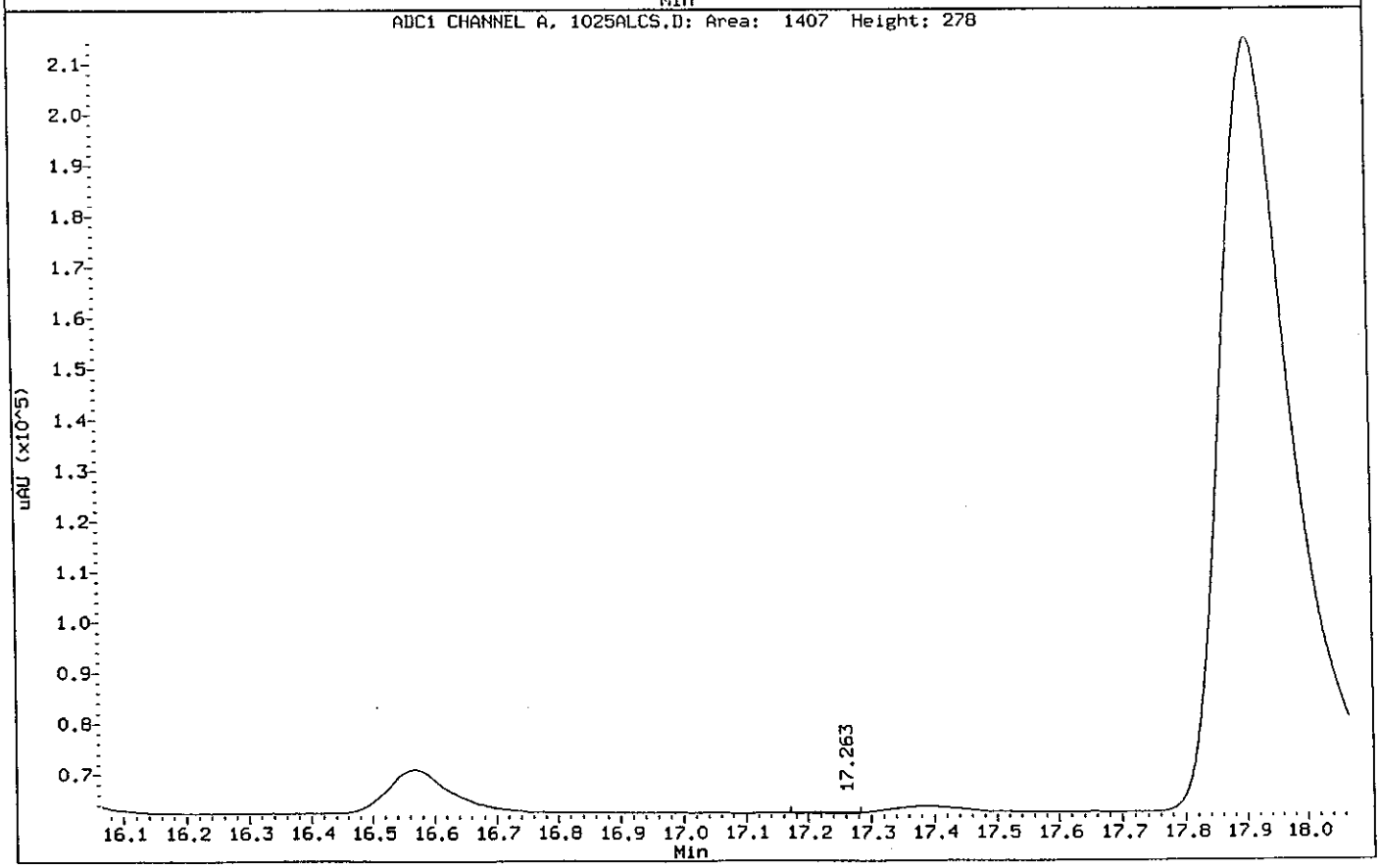
Injection Date: 29-OCT-2001 07:46
Instrument: slc02.i
Client Sample ID: 1025SLCS

Compound: Fluoranthene
CAS Number: 206-44-0





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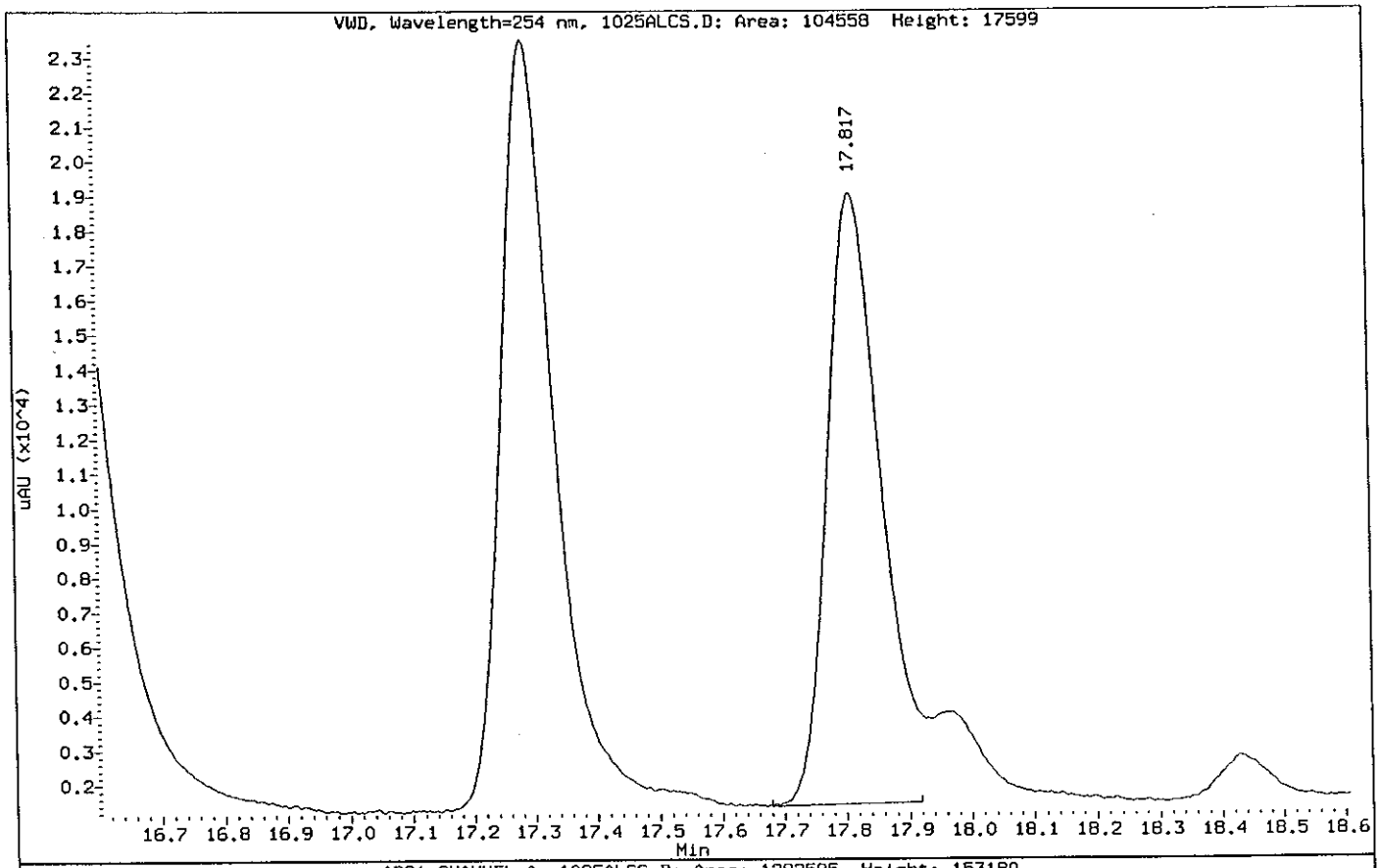
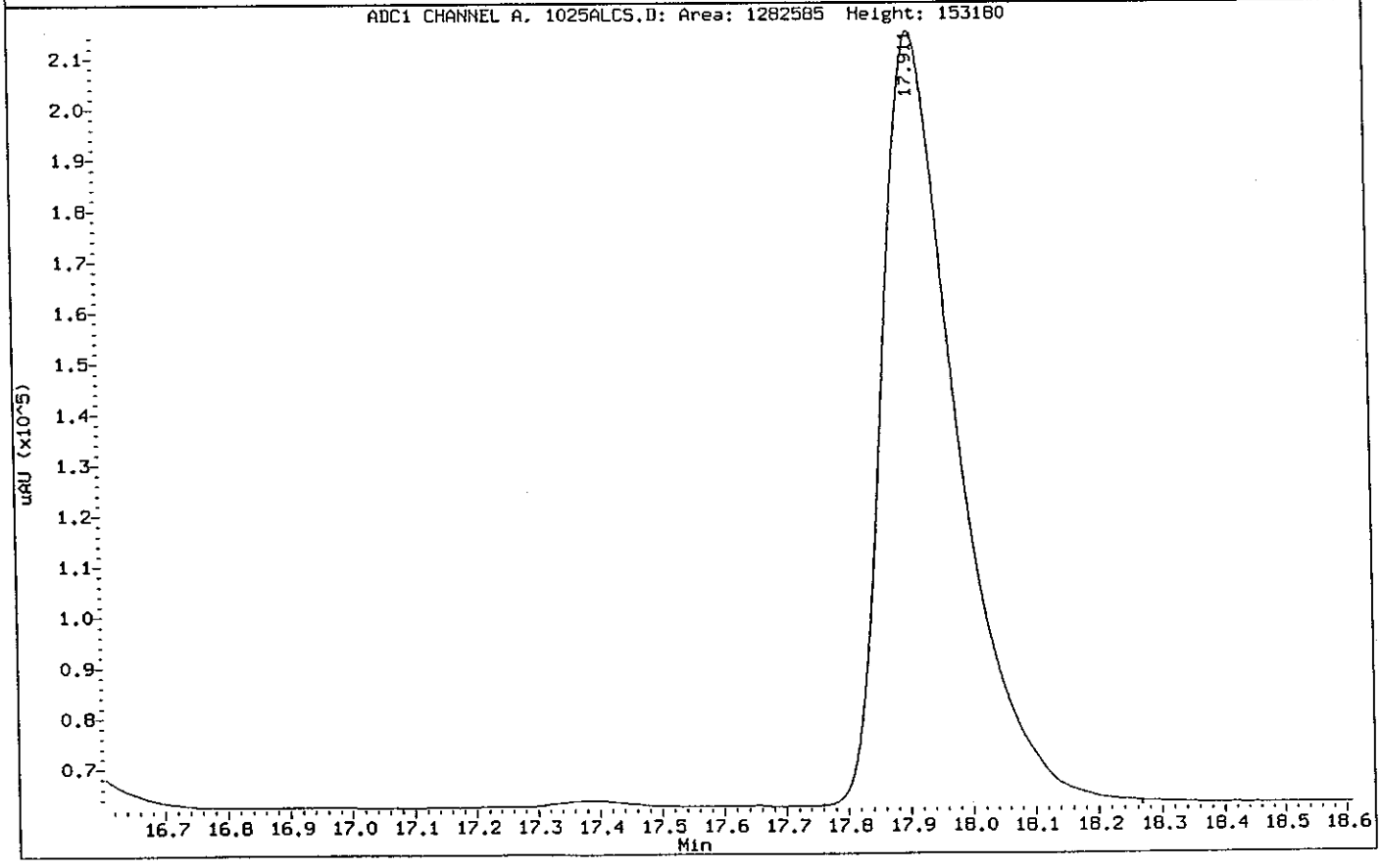
Injection Date: 29-OCT-2001 07:46
Instrument: slc02.i
Client Sample ID: 1025SLCS

Compound: Pyrene
CAS Number: 129-00-0





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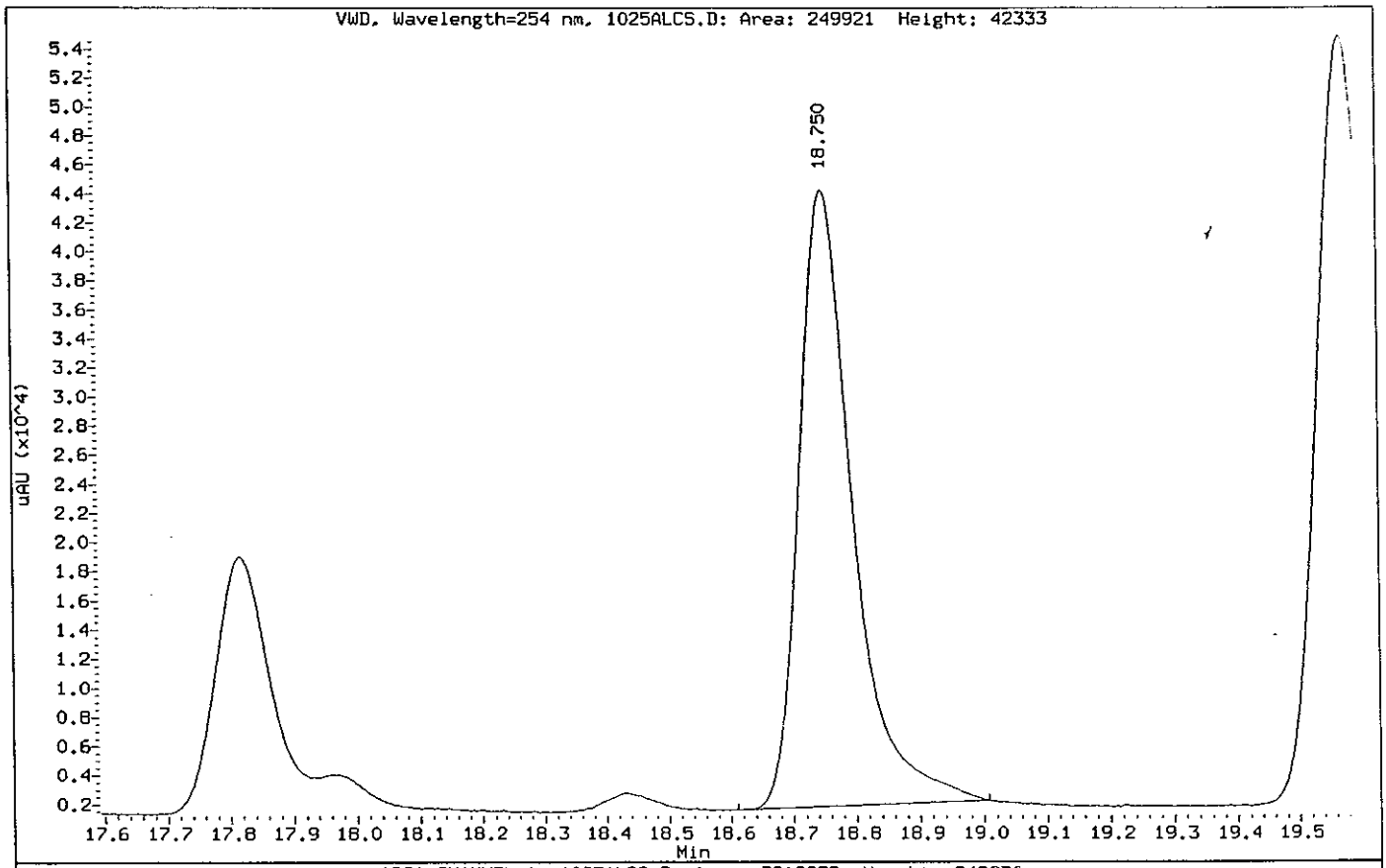
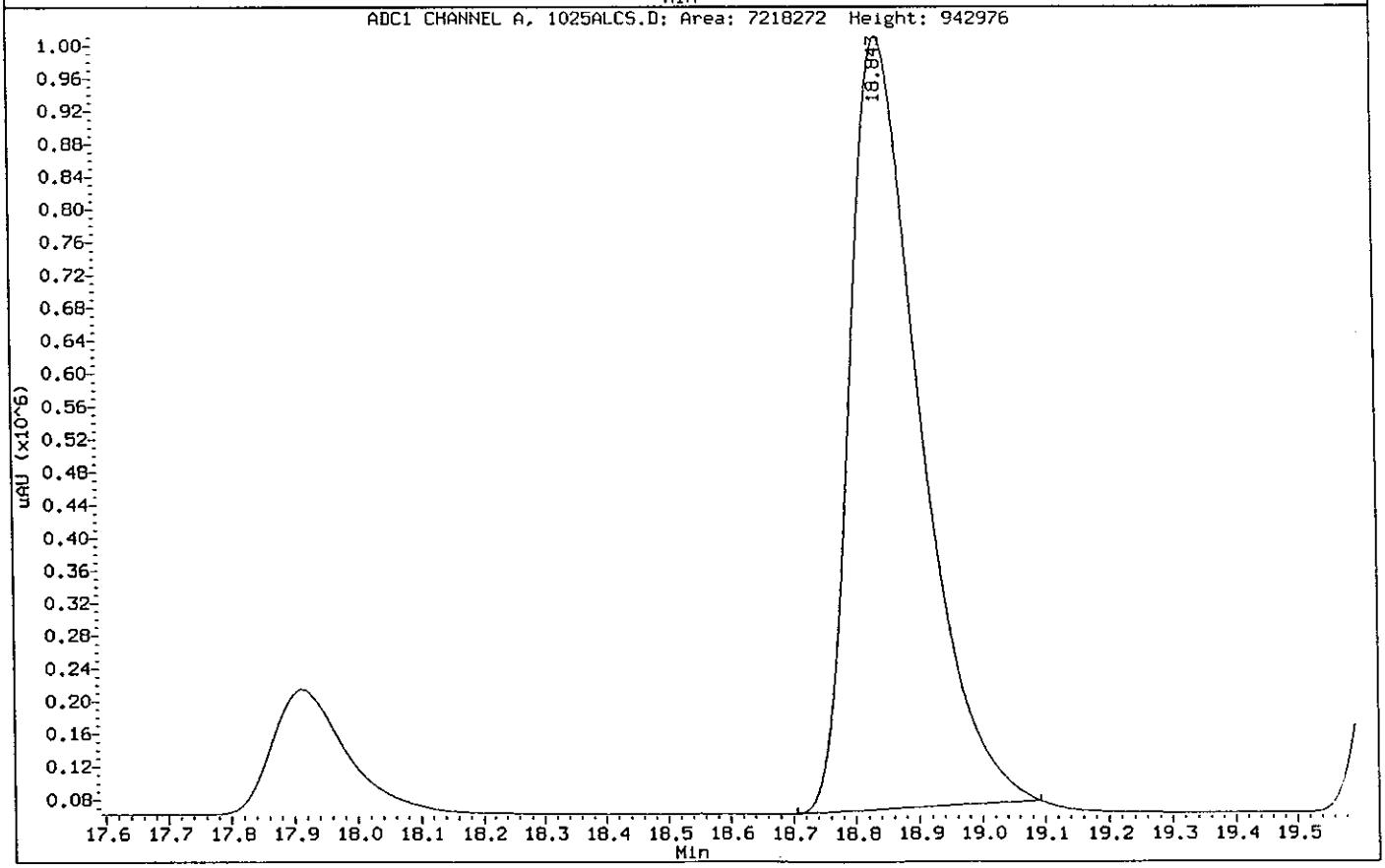
Injection Date: 29-OCT-2001 07:46
Instrument: slc02.i
Client Sample ID: 1025SLCS

Compound: p-Terphenyl-d14 (SURR)
CAS Number: 1718-51-0





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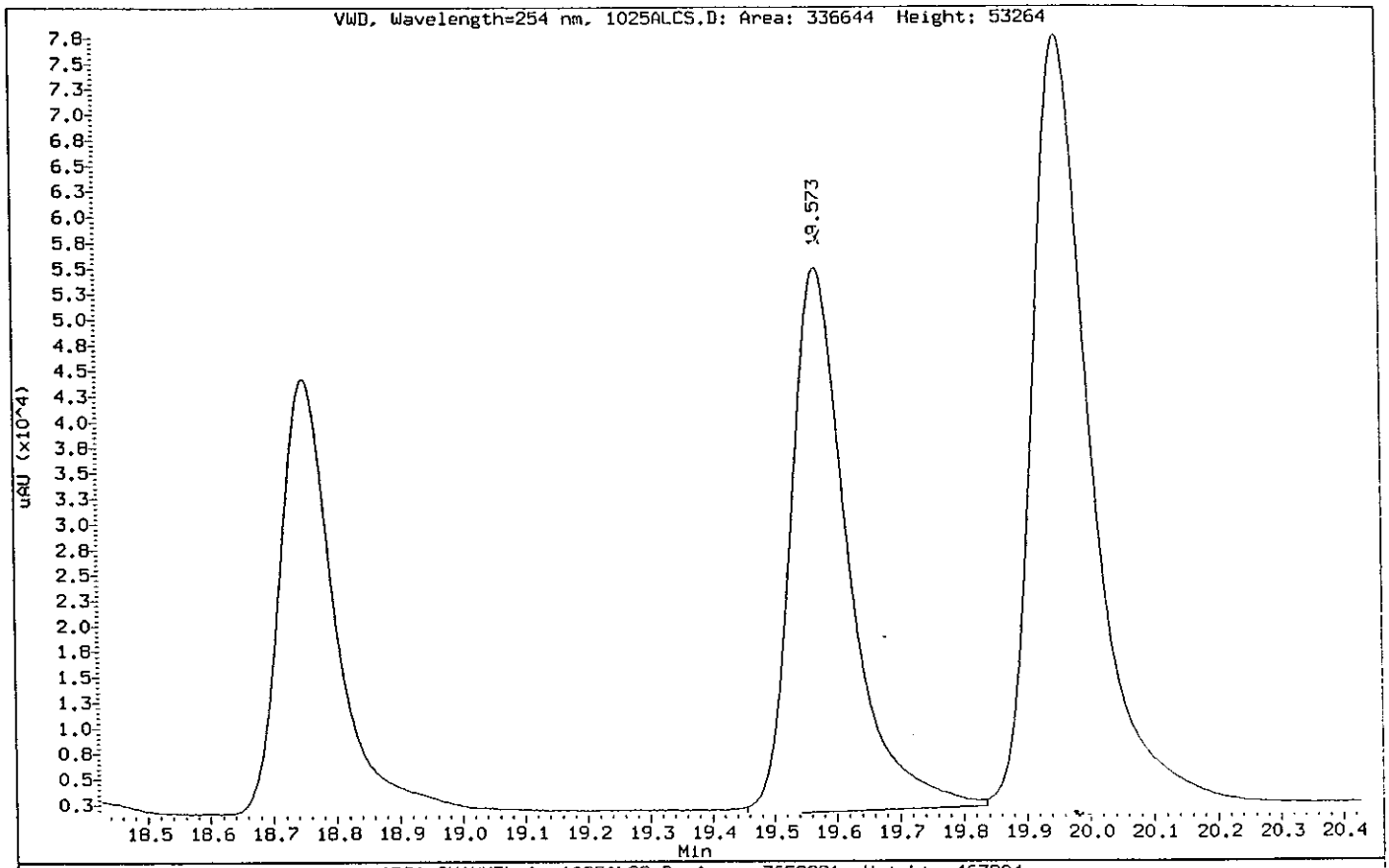
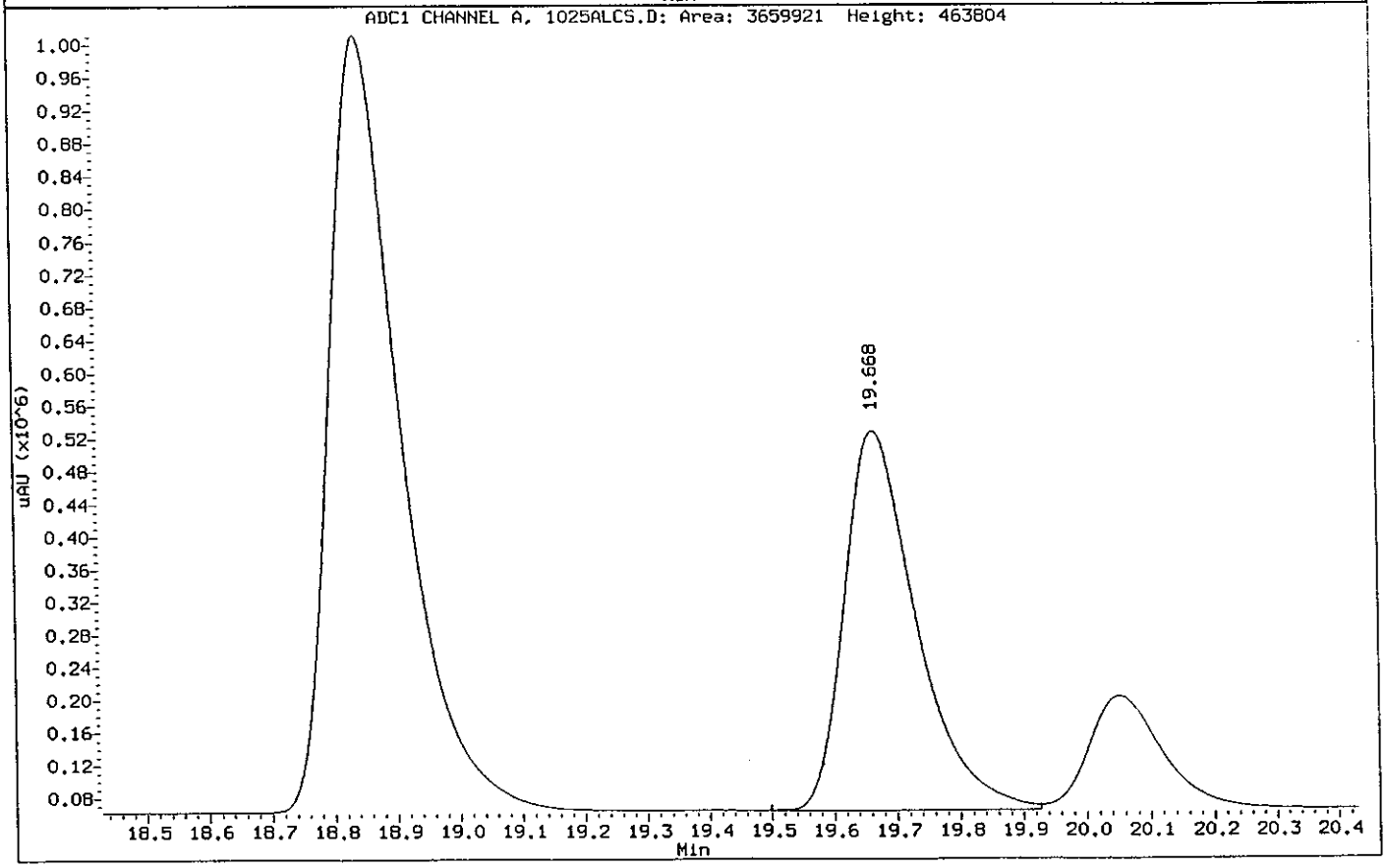
Injection Date: 29-OCT-2001 07:46
Instrument: slc02.i
Client Sample ID: 1025SLCS

Compound: Benzo(a)Anthracene
CAS Number: 56-55-3





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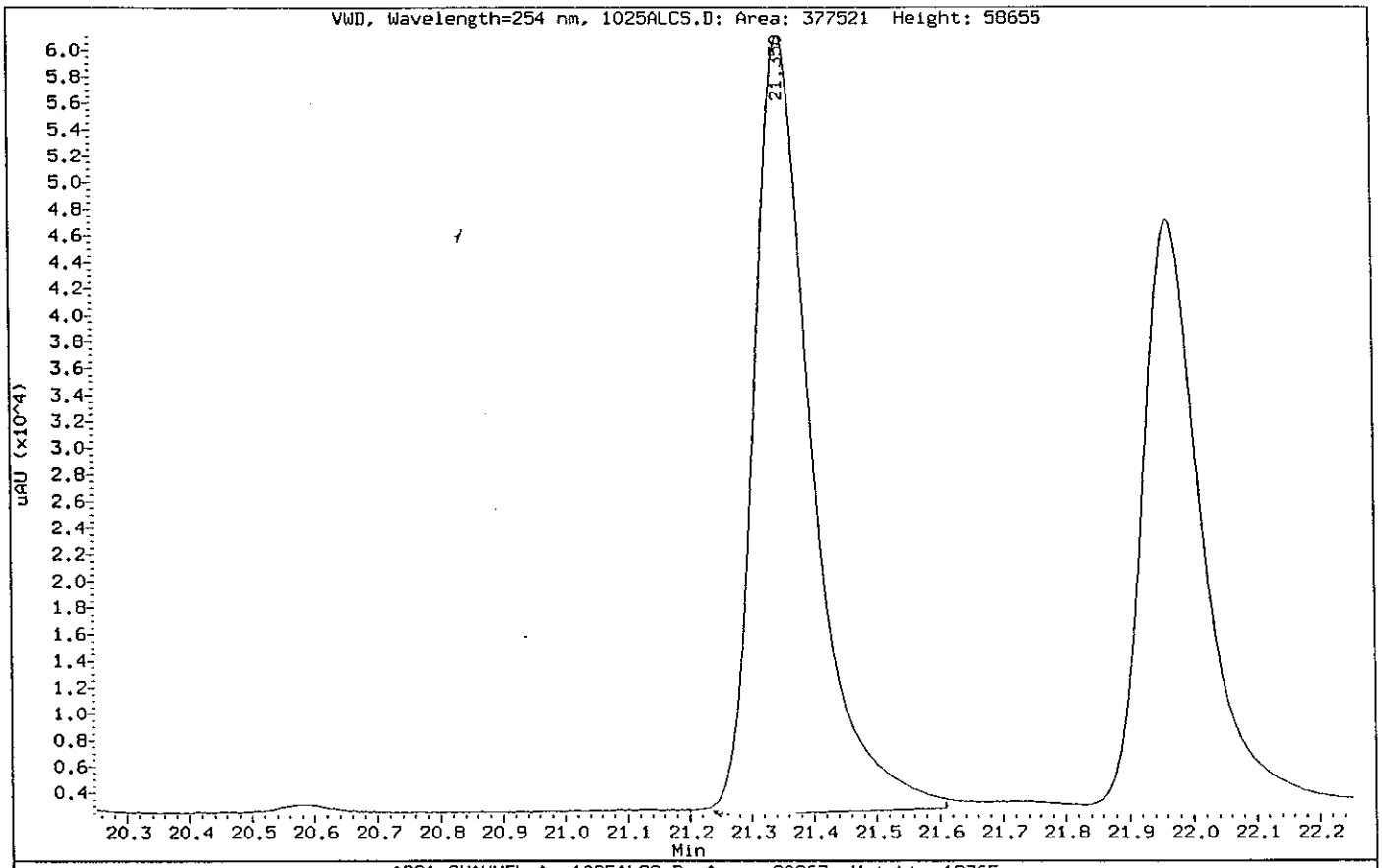
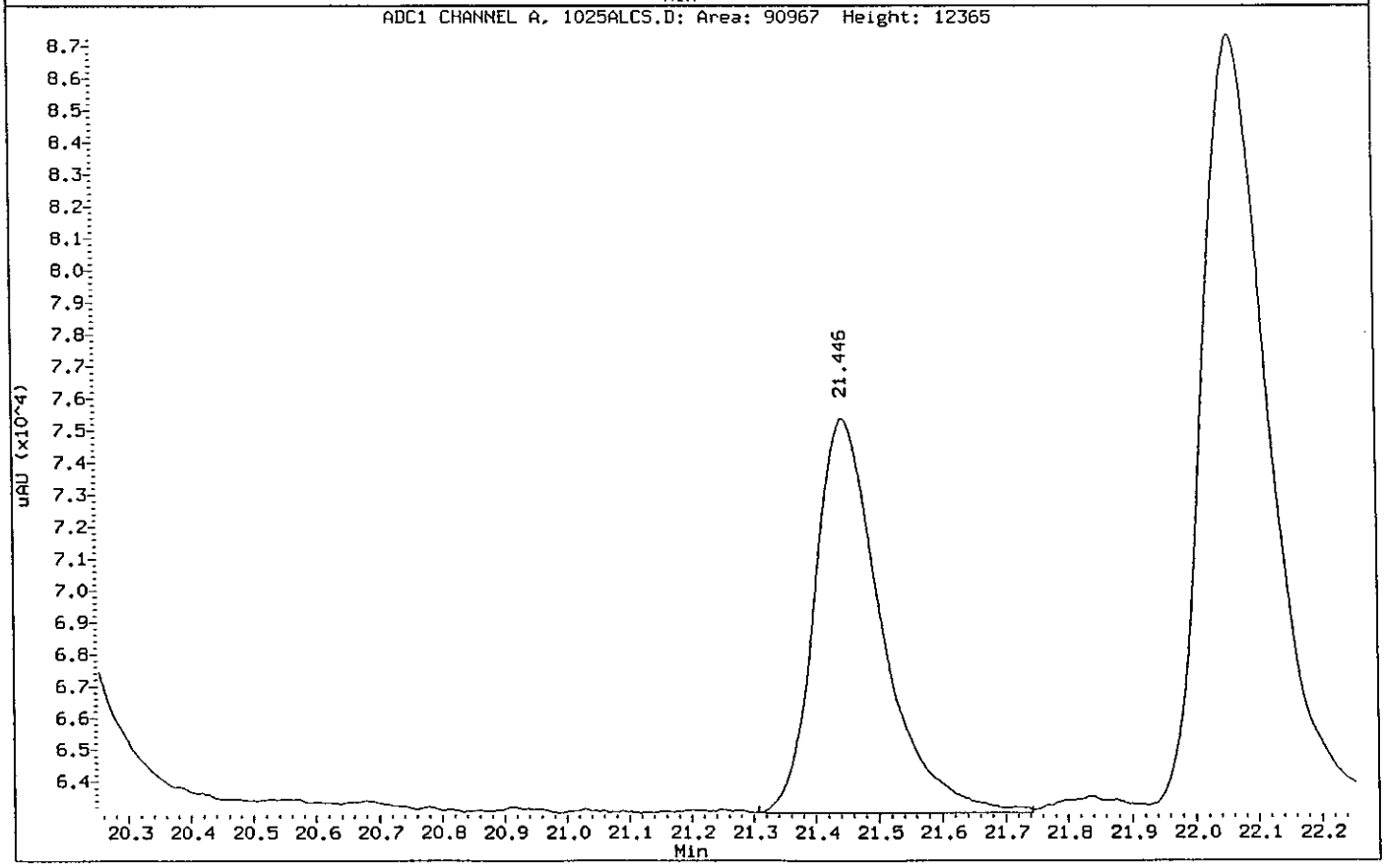
Injection Date: 29-OCT-2001 07:46
Instrument: slc02.i
Client Sample ID: 1025SLCS

Compound: Benzo(b)Fluoranthene
CAS Number: 205-99-2

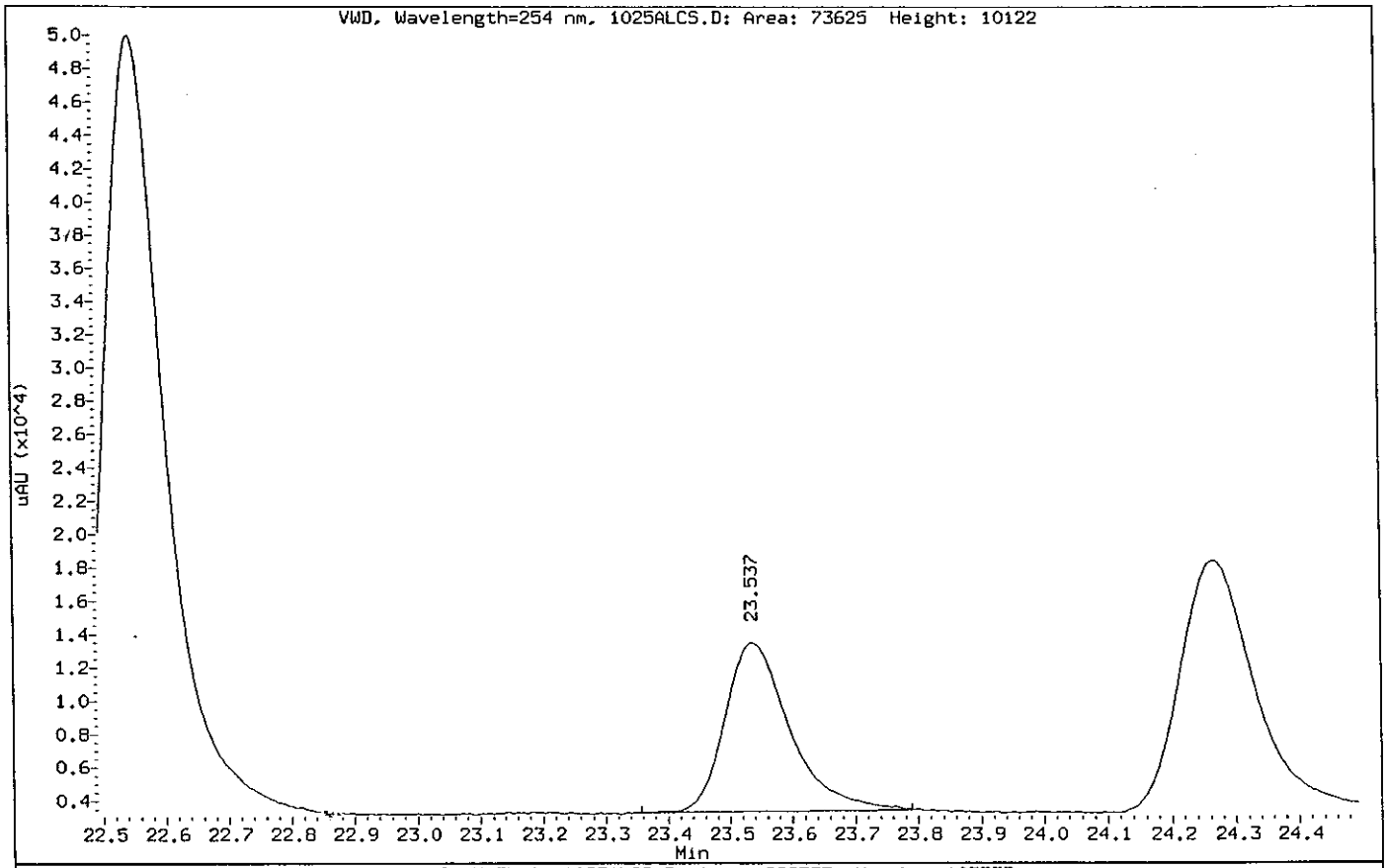


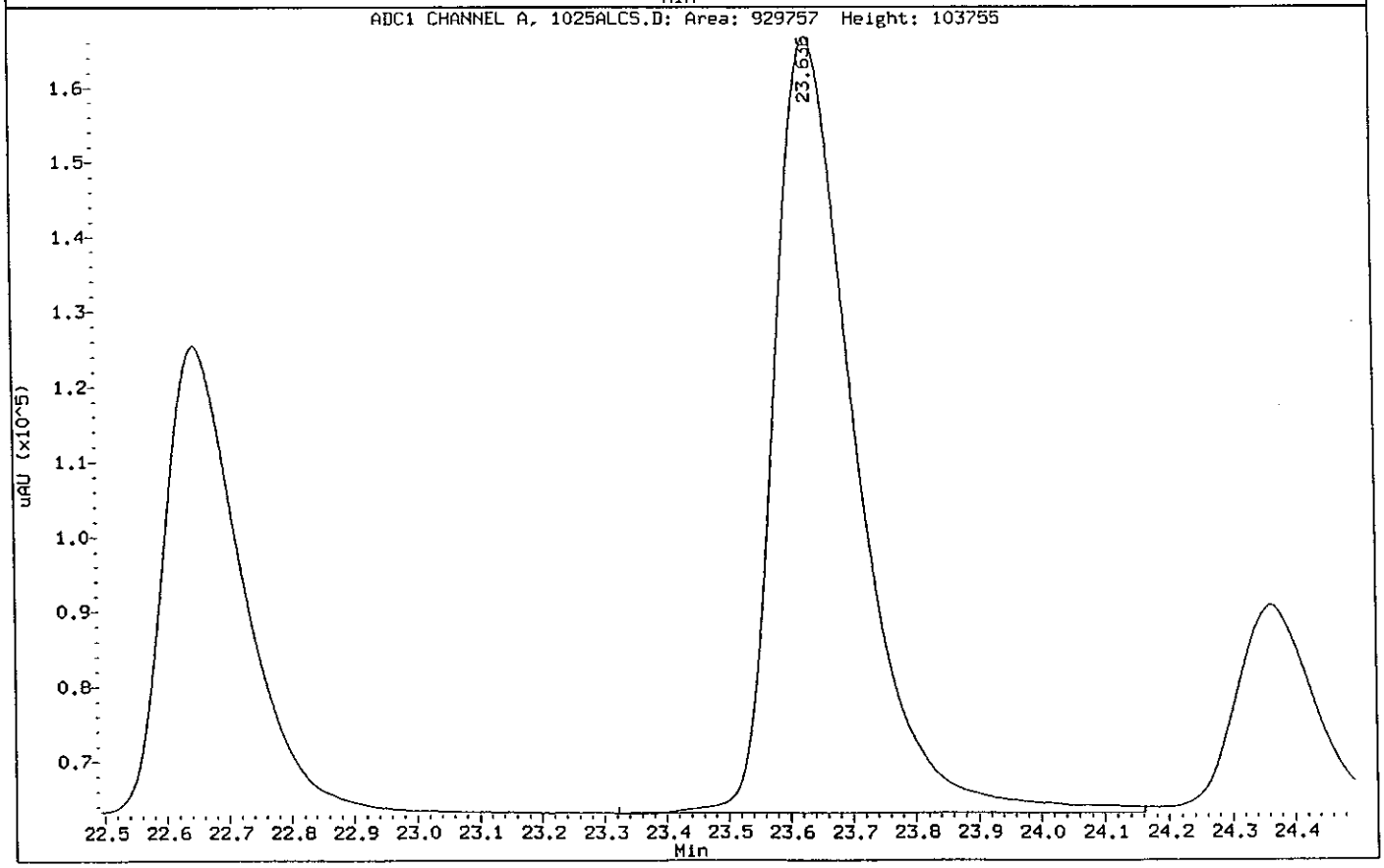


JND

Data File: \\SVHPLC\ee\chem\slc02.1\L21028R1.b\1025ALCS.D
Injection Date: 29-OCT-2001 07:46
Instrument: slc02.1
Client Sample ID: 1025SLCS

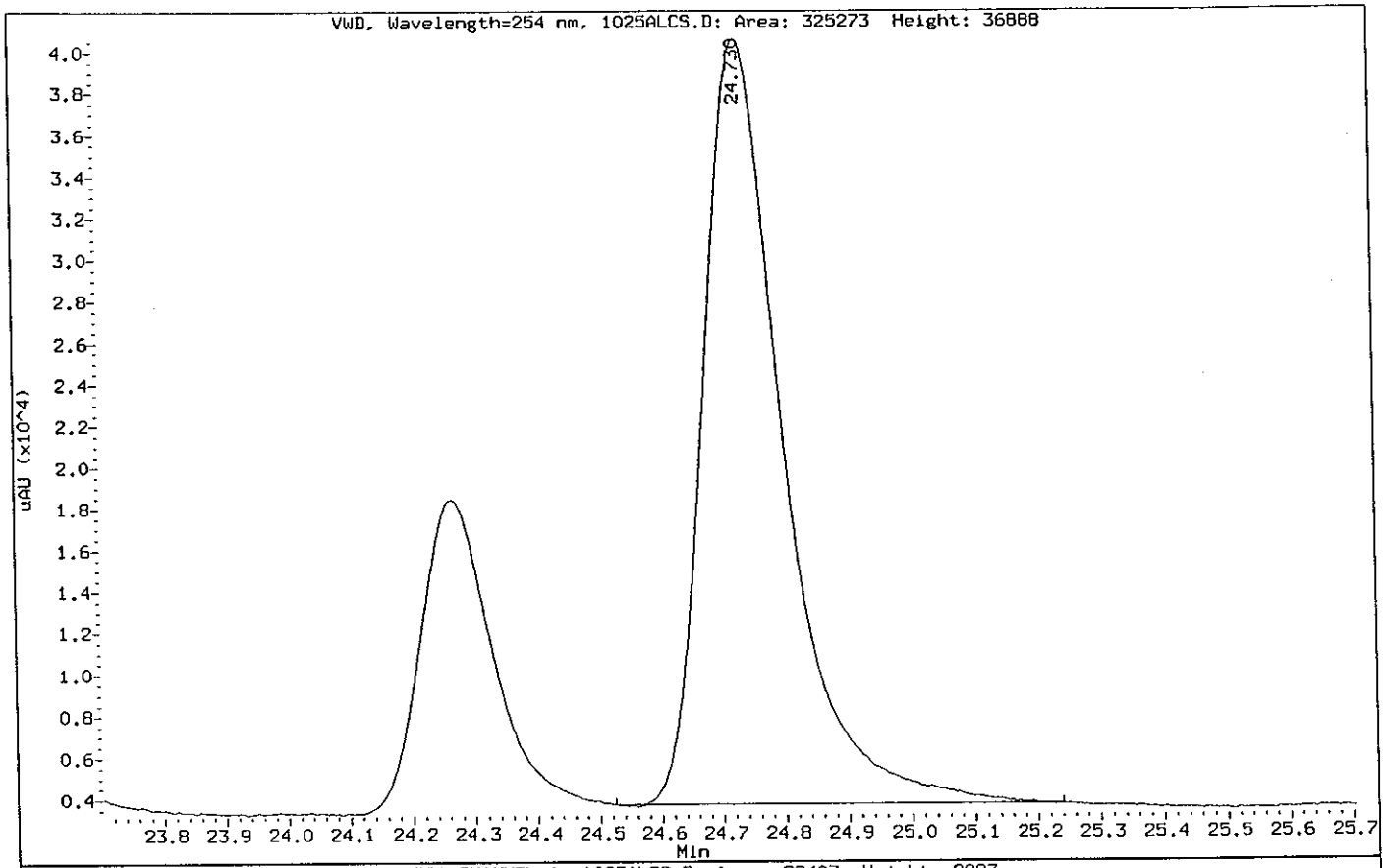
Compound: Dibenz(ah)Anthracene
CAS Number: 53-70-3

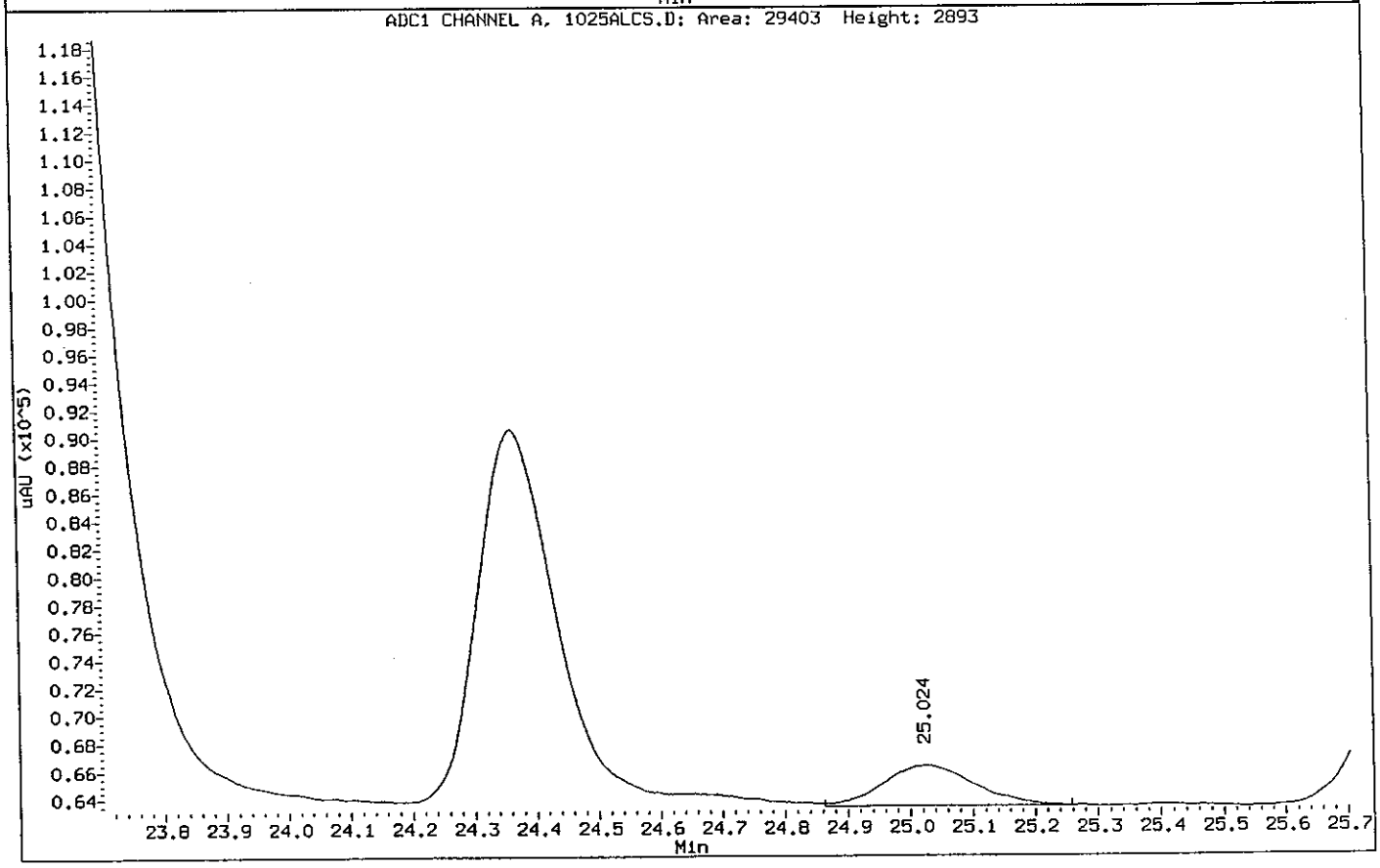




Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\1025ALCS.D
Injection Date: 29-OCT-2001 07:46
Instrument: slc02.i
Client Sample ID: 1025SLCS

Compound: Indeno(123cd)Pyrene
CAS Number: 193-39-5





PEL Laboratories

Data file : \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-02.D
Lab Smp Id: 211009402 Client Smp ID: 062B31S101801
Inj Date : 29-OCT-2001 04:18
Operator : rood Inst ID: slc02.i
Smp Info : 211009402
Misc Info :
Comment :
Method : \\SVHPLC\ee\chem\slc02.i\L21028R1.b\8310S.m
Meth Date : 02-Nov-2001 08:36 jdonnelly Quant Type: ISTD
Cal Date : 28-OCT-2001 20:26 Cal File: PT2UGML.D
Als bottle: 17
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: navy50.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	32.900	Extracted weight
M	17.033	% Moisture
Vf	1.000	Final Volume

RT	EXP RT	REL RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO
* 1 Carbazole (ISTD)						CAS #: 86-74-8		
11.290	10.610	(1.000)	VWD1A	259377			80.00- 120.00	100.00
11.375	10.610	(1.000)	ADC1A	1993679	10.0000		652.03- 978.05	768.64
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.770	18.593	(1.663)	VWD1A	229933	15.3837	564	80.00- 120.00	100.00
18.860	18.593	(1.671)	ADC1A	6215785	15.1937	557	2246.35-3369.53	2703.30
19 Benzo(ghi)Perylene						CAS #: 191-24-2		
24.310	24.226	(2.153)	VWD1A	4078	0.27828	10.2	80.00- 120.00	100.00(aM)
24.358	24.226	(2.158)	ADC1A	7545	0.25420	9.3	155.32- 232.98	185.02

QC Flag Legend

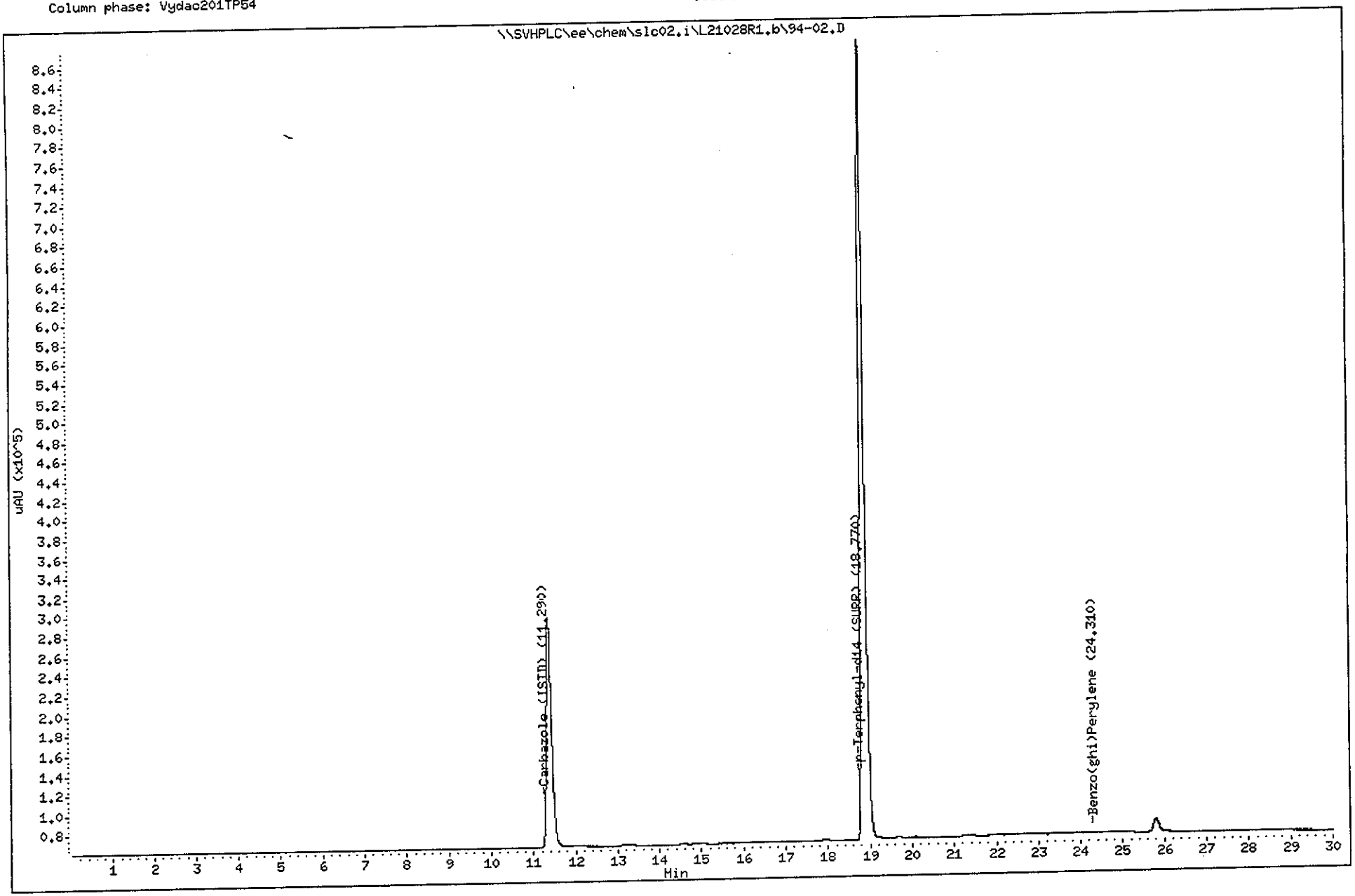
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-02.D
Date : 29-OCT-2001 04:18
Client ID: 062B31S101801
Sample Info: 211009402

Column phase: Vydac201TP54

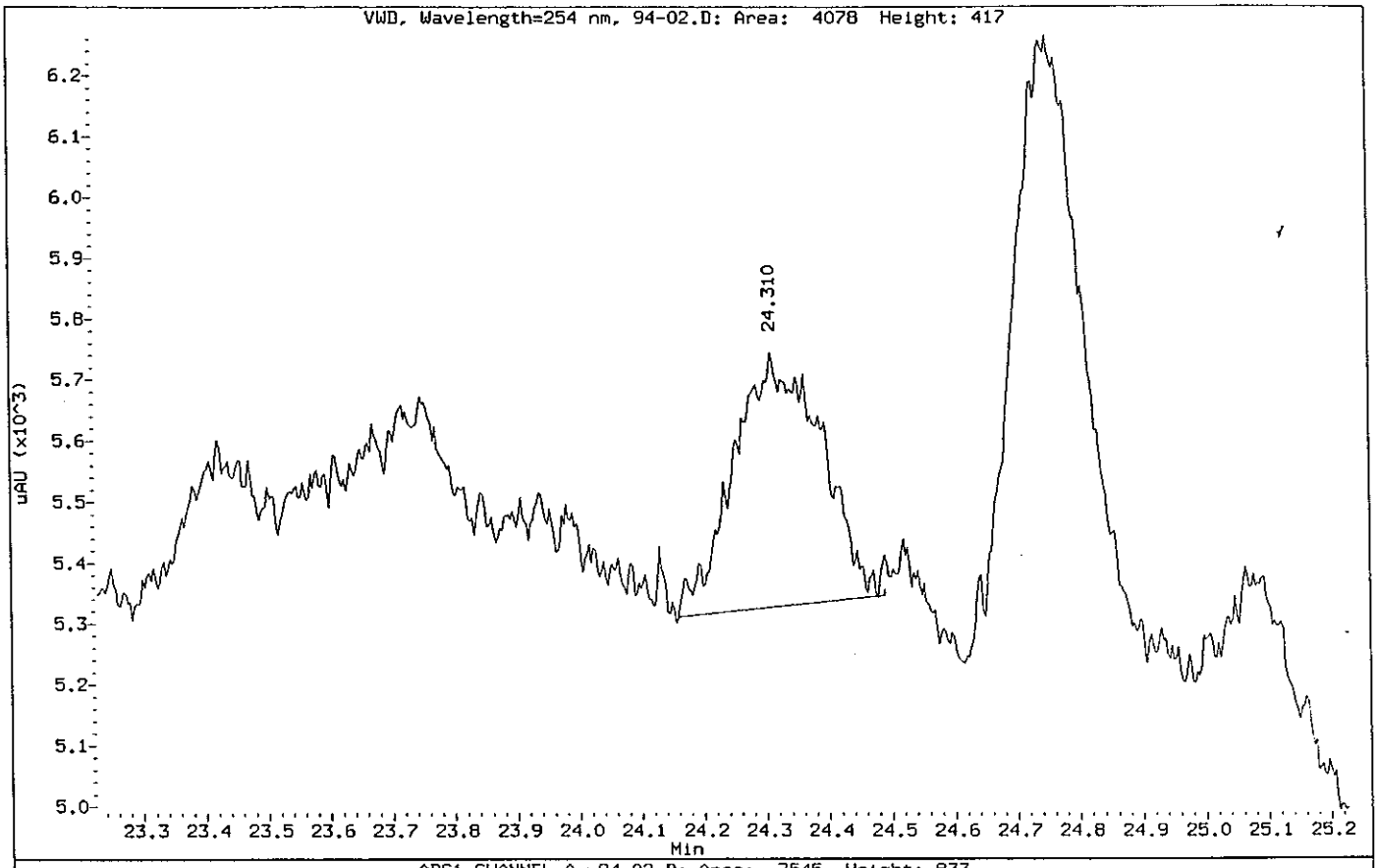
Instrument: slc02.i
;

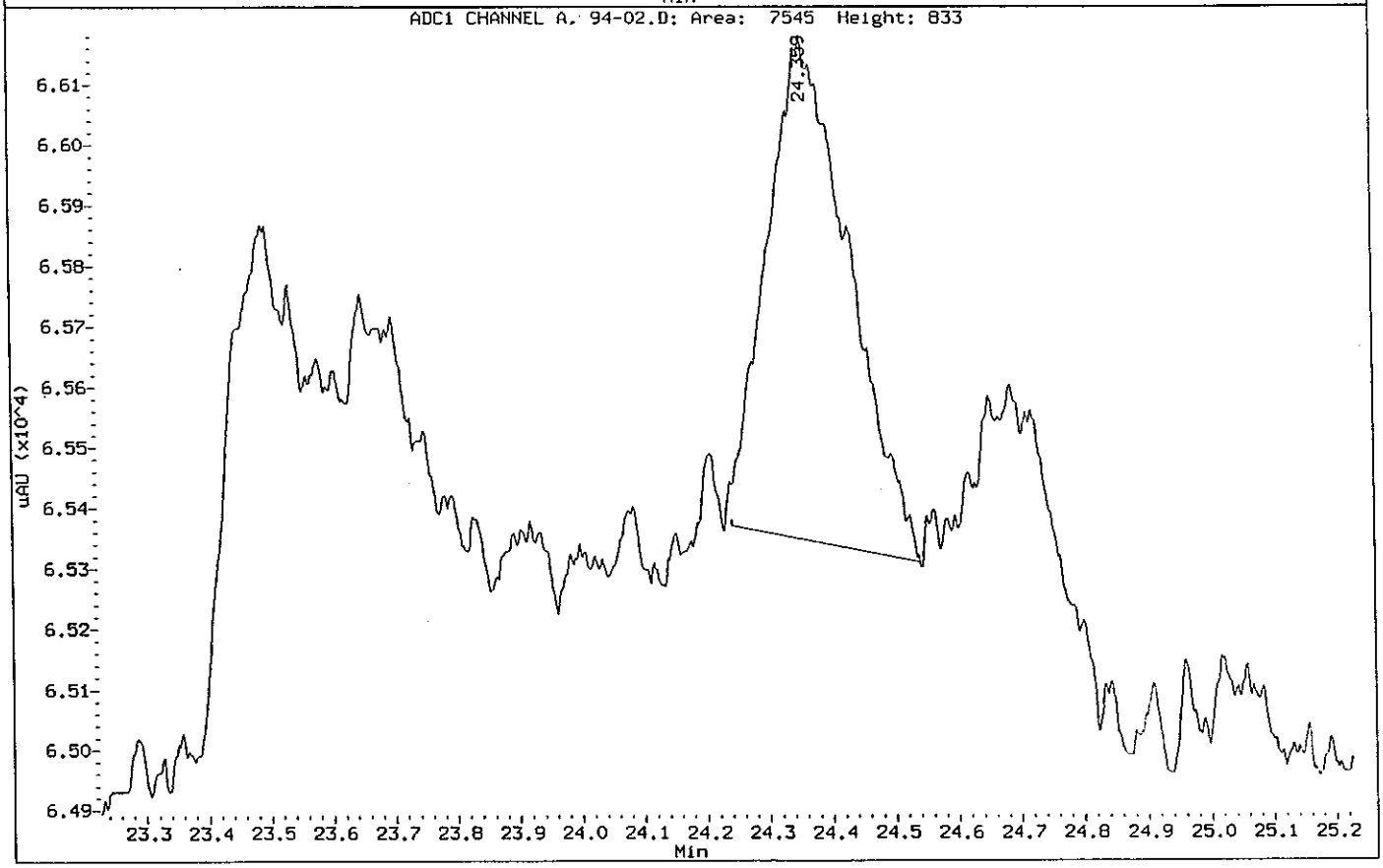
Operator: rood
Column diameter: 4.60



Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-02.D
Injection Date: 29-OCT-2001 04:18
Instrument: slc02.i
Client Sample ID: 062B31S101801

Compound: Benzo(ghi)Perylene
CAS Number: 191-24-2





PEL Laboratories

Data file : \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-03.D
Lab Smp Id: 211009403 Client Smp ID: 062B41S101801
Inj Date : 29-OCT-2001 04:53
Operator : rood Inst ID: slc02.i
Smp Info : 211009403
Misc Info :
Comment :
Method : \\SVHPLC\ee\chem\slc02.i\L21028R1.b\8310S.m
Meth Date : 02-Nov-2001 08:36 jdonnelly Quant Type: ISTD
Cal Date : 28-OCT-2001 20:26 Cal File: PT2UGML.D
Als bottle: 18
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: navy50.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	32.900	Extracted weight
M	13.344	% Moisture
Vf	1.000	Final Volume

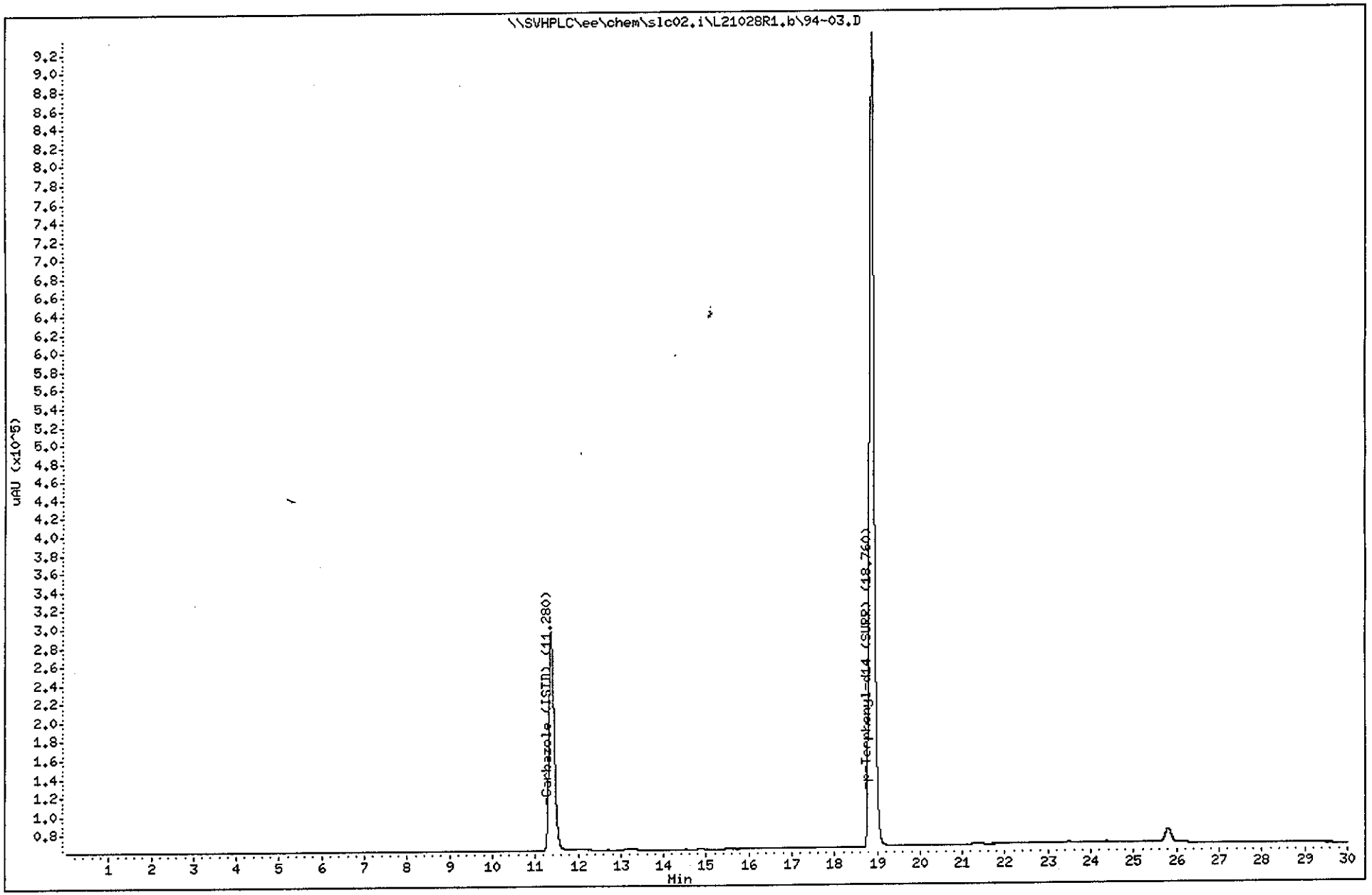
						CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	REL RT	SIGNAL	RESPONSE		(ug/ml)	(ug/kg)	TARGET RANGE	RATIO
* 1 Carbazole (ISTD)							CAS #: 86-74-8		
11.280	10.610	(1.000)	VWD1A	258810				80.00- 120.00	100.00
11.369	10.610	(1.000)	ADC1A	2022316		10.0000		652.03- 978.05	781.39
$ 12 p-Terphenyl-d14 (SURR)							CAS #: 1718-51-0		
18.760	18.593	(1.663)	VWD1A	245209		16.1734	567	80.00- 120.00	100.00
18.855	18.593	(1.672)	ADC1A	6746685		16.2579	570	2246.35-3369.53	2751.40

Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-03.D
Date : 29-OCT-2001 04:53
Client ID: 062B41S101801
Sample Info: 211009403

Instrument: slc02.i

Operator: rood
Column diameter: 4.60

Column phase: Vydac201TP54



PEL Laboratories

Data file : \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-04.D
Lab Smp Id: 211009404 Client Smp ID: 062B70S101801
Inj Date : 29-OCT-2001 05:27
Operator : rood Inst ID: slc02.i
Smp Info : 211009404
Misc Info :
Comment :
Method : \\SVHPLC\ee\chem\slc02.i\L21028R1.b\8310S.m
Meth Date : 02-Nov-2001 08:36 jdonnelly Quant Type: ISTD
Cal Date : 28-OCT-2001 20:26 Cal File: PT2UGML.D
Als bottle: 19
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: navy50.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	32.800	Extracted weight
M	10.977	% Moisture
Vf	1.000	Final Volume

RT	EXP RT	REL RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO
* 1 Carbazole (ISTD)							CAS #: 86-74-8	
11.300	10.610	(1.000)	VWD1A	256735			80.00- 120.00	100.00(M)
11.388	10.610	(1.008)	ADC1A	2025175	10.0000		652.03- 978.05	788.82
5 2-Methyl naphthalene							CAS #: 91-57-6	
14.446	13.973	(1.278)	VWD1A	5054	1.02966	35.3	80.00- 120.00	100.00(aM)
14.558	13.973	(1.288)	ADC1A	11085	1.02157	35.0	191.55- 287.32	219.33
8 Phenanthrene							CAS #: 85-01-8	
15.793	15.500	(1.398)	VWD1A	10282	0.14394	4.9	80.00- 120.00	100.00(aMH)
15.888	15.500	(1.406)	ADC1A	8298	0.12241	4.2	78.58- 117.87	80.70
11 Pyrene							CAS #: 129-00-0	
17.833	17.606	(1.578)	VWD1A	2184	0.16664	5.7	80.00- 120.00	100.00(aM)

RT	EXP RT	REL RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	CONCENTRATIONS FINAL (ug/kg)	TARGET RANGE	RATIO
11 Pyrene (continued)								
17.919	17.606	(1.586)	ADC1A	35199	0.20106	6.9	930.64-1395.96	1611.68
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.763	18.593	(1.660)	VWD1A	219151	14.4343	494	80.00- 120.00	100.00
18.859	18.593	(1.669)	ADC1A	6120627	14.7284	504	2246.35-3369.53	2792.88
13 Benzo(a)Anthracene						CAS #: 56-55-3		
19.580	19.426	(1.733)	VWD1A	6180	0.15427	5.3	80.00- 120.00	100.00(aMH)
19.678	19.426	(1.741)	ADC1A	57942	0.13458	4.6	881.58-1322.37	937.57
14 Chrysene						CAS #: 218-01-9		
19.950	19.820	(1.765)	VWD1A	13428	0.23461	8.0	80.00- 120.00	100.00(aMH)
20.059	19.820	(1.775)	ADC1A	10195	0.07479	2.6	190.14- 285.21	75.92
15 Benzo(b)Fluoranthene						CAS #: 205-99-2		
21.366	21.253	(1.891)	VWD1A	19550	0.44270	15.2	80.00- 120.00	100.00(aM)
21.461	21.253	(1.899)	ADC1A	17309	1.49699	51.3	20.85- 31.28	88.54
17 Benzo(a)pyrene						CAS #: 50-32-8		
22.570	22.476	(1.997)	VWD1A	7887	0.20039	6.9	80.00- 120.00	100.00(aM)
22.649	22.476	(2.004)	ADC1A	32000	0.48669	16.7	138.13- 207.19	405.73
19 Benzo(ghi)Perylene						CAS #: 191-24-2		
24.26U	24.226	(2.147)	VWD1A	7051	0.47368	16.2	80.00- 120.00	100.00(aM)
24.343	24.226	(2.154)	ADC1A	50201	1.66503	57.0	155.32- 232.98	711.97
20 Indeno(123cd)Pyrene						CAS #: 193-39-5		
24.743	24.703	(2.190)	VWD1A	10440	0.27818	9.5	80.00- 120.00	100.00(aMH)
24.844	24.703	(2.199)	ADC1A	194			0.00- 0.00	1.86

QC Flag Legend

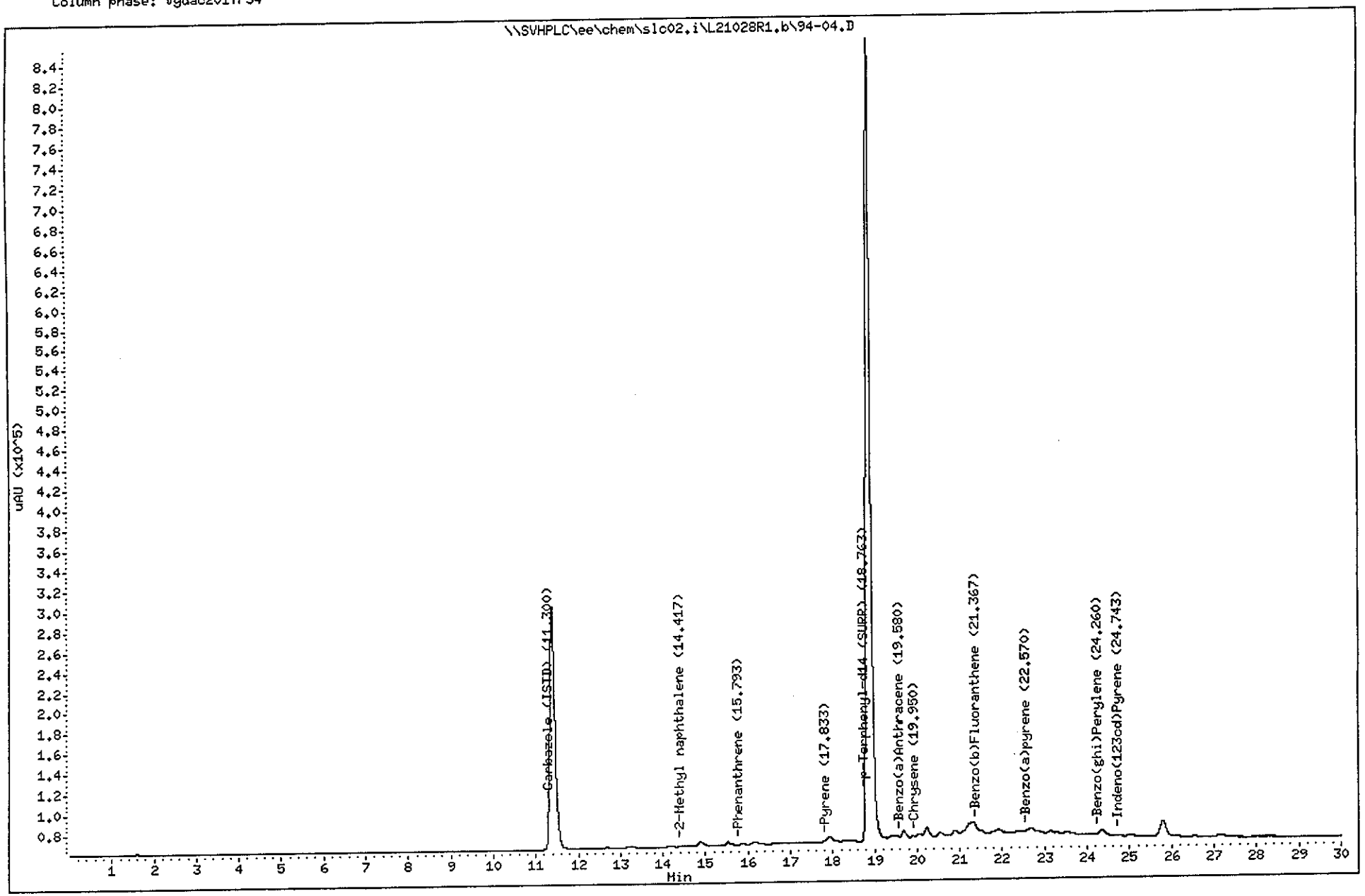
a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-04.D
Date : 29-OCT-2001 05:27
Client ID: 062B70S101801
Sample Info: 211009404

Instrument: slc02.i

Operator: rood
Column diameter: 4.60

Column phase: Vydac201TP54



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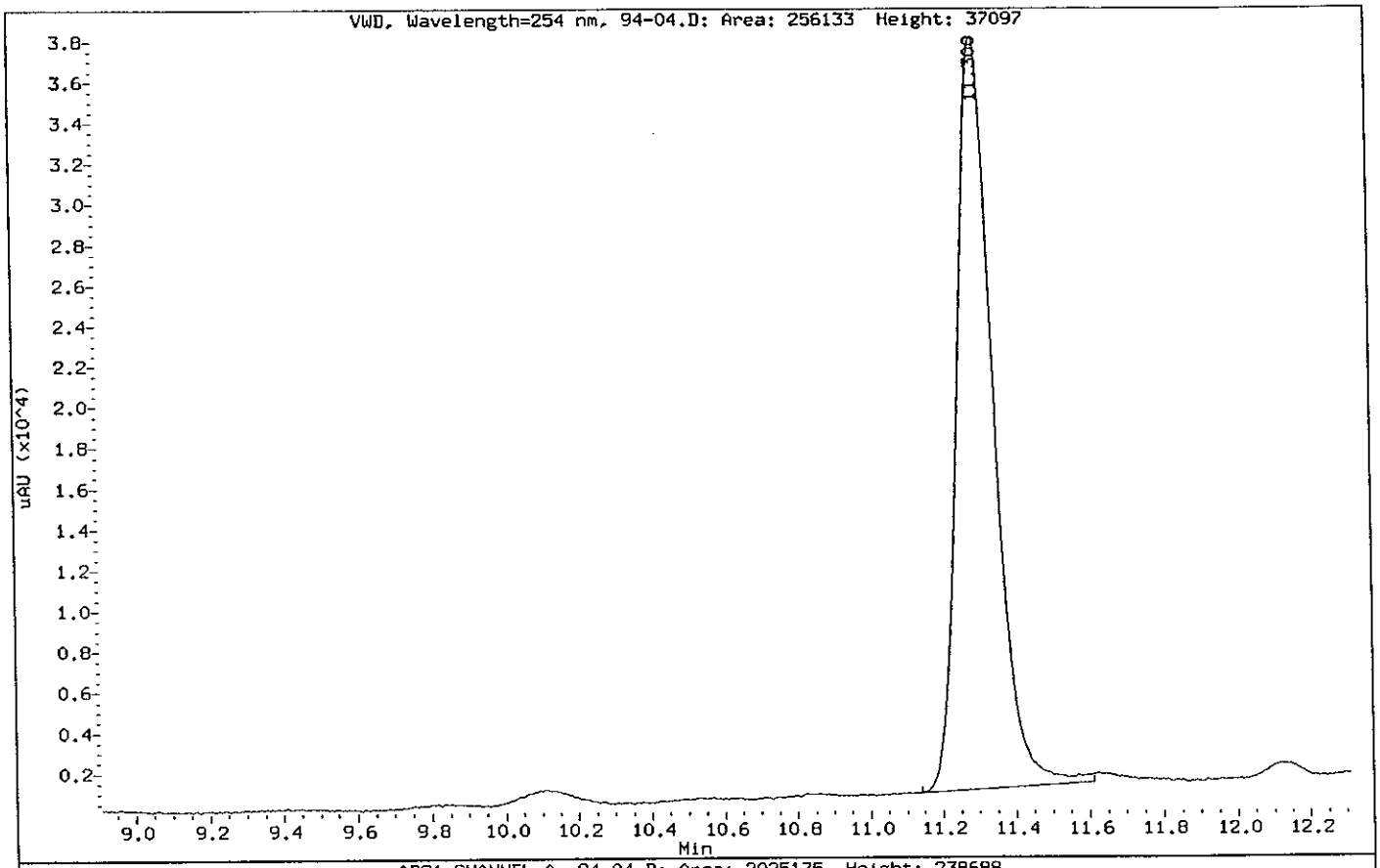
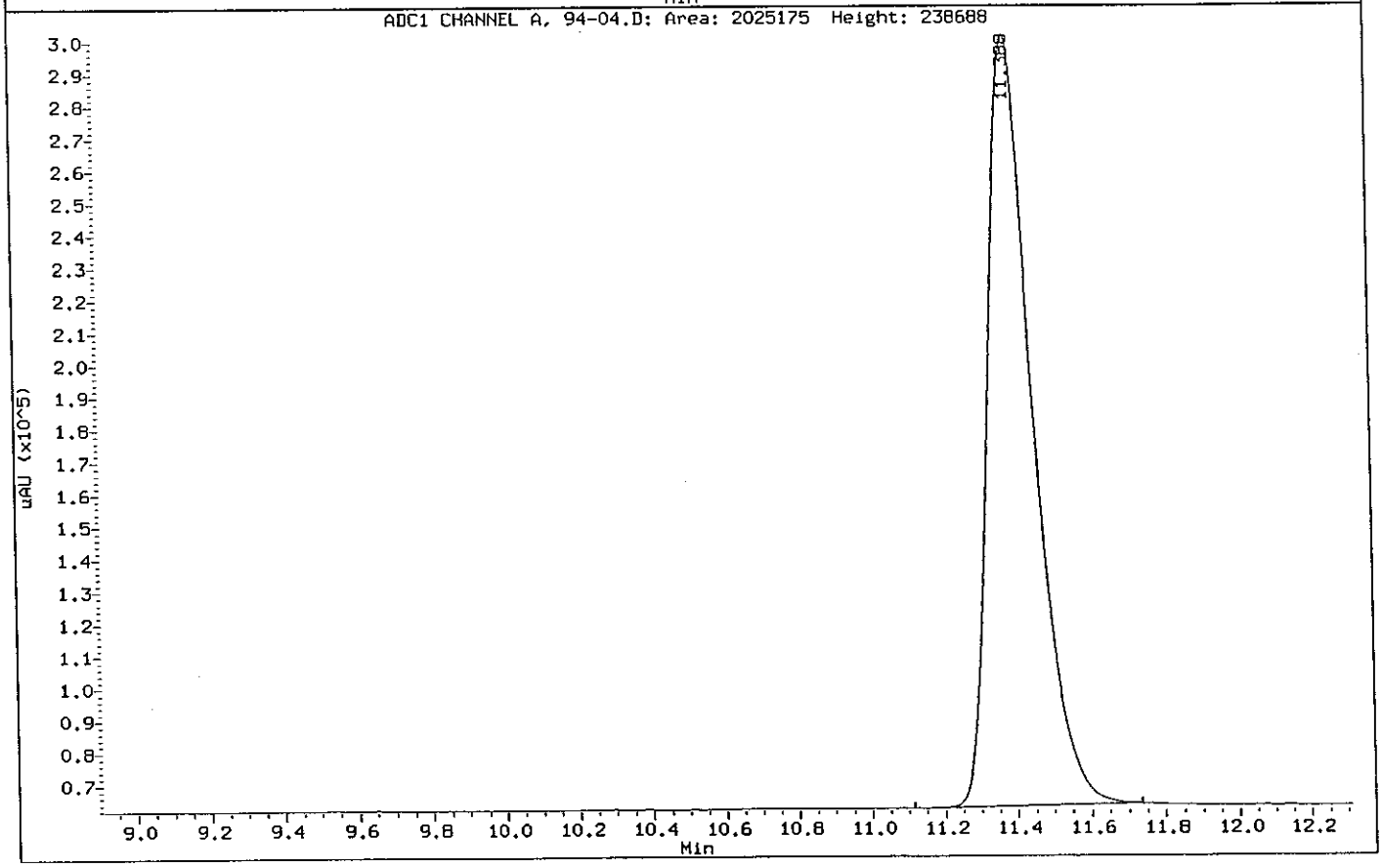
Injection Date: 29-OCT-2001 05:27
Instrument: slc02.i
Client Sample ID: 062B70S101801

Compound: Carbazole (ISTD)
CAS Number: 86-74-8





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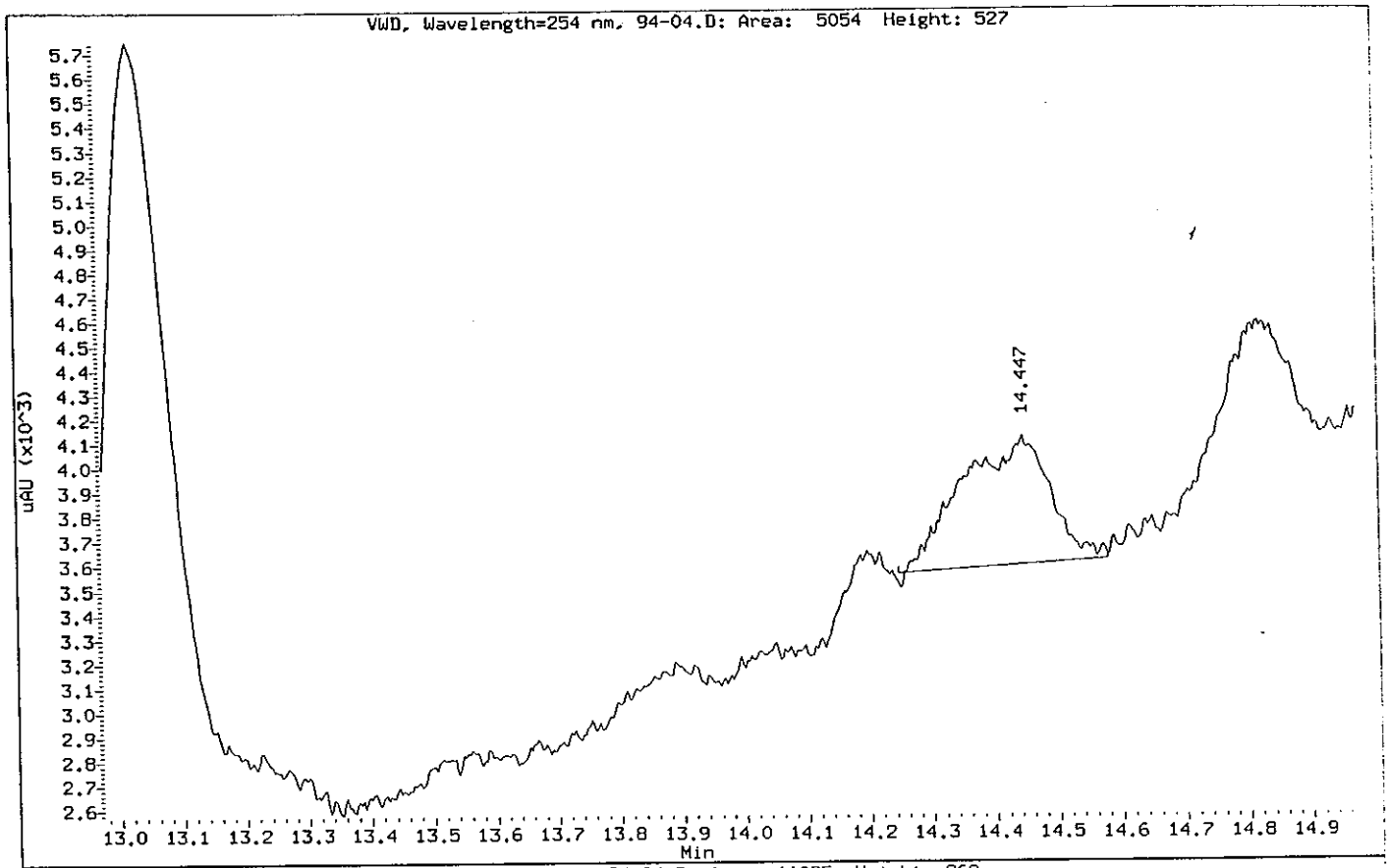
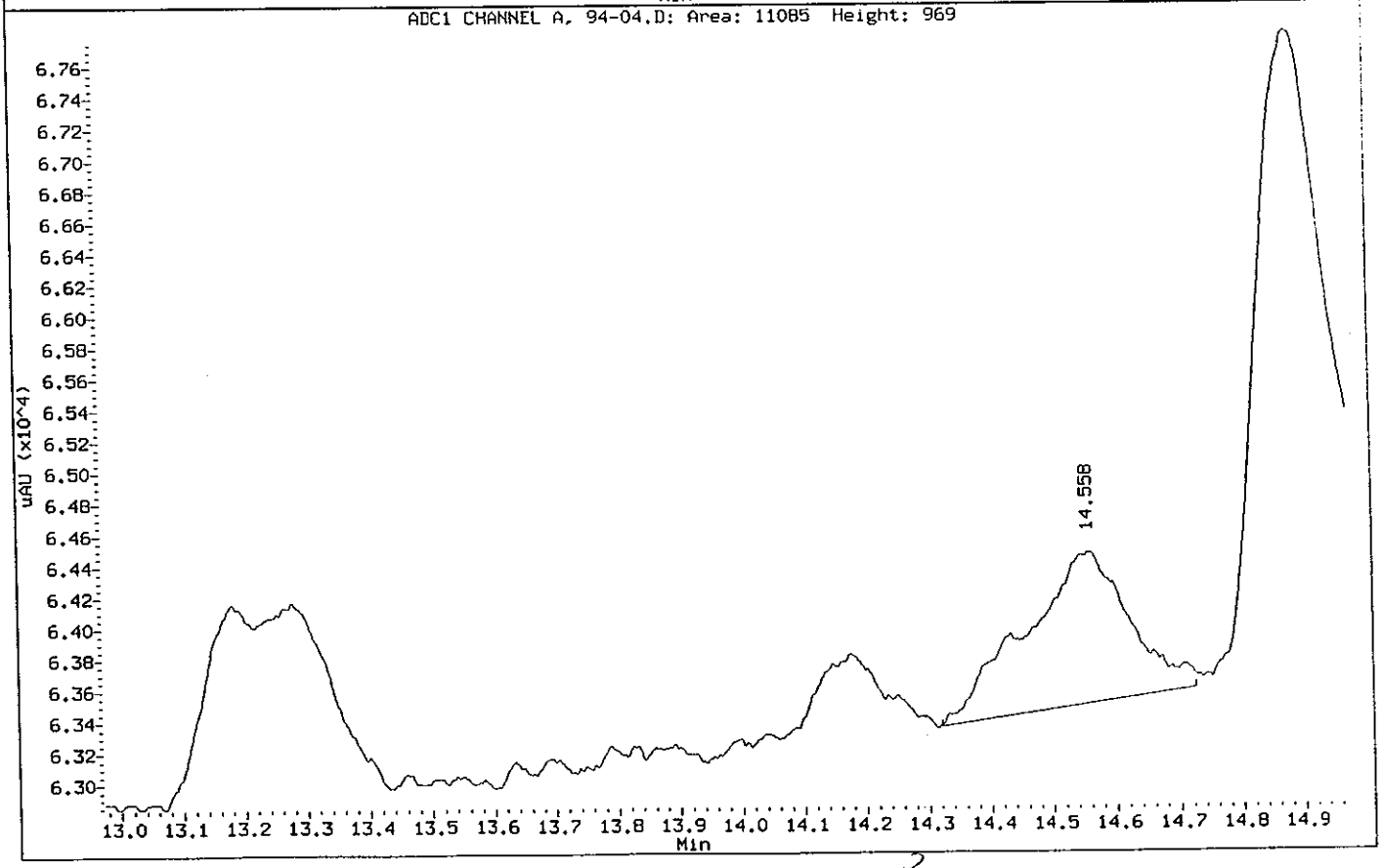
Instrument: slc02.i
Client Sample ID: 062B70S101801

Compound: 2-Methyl naphthalene
CAS Number: 91-57-6





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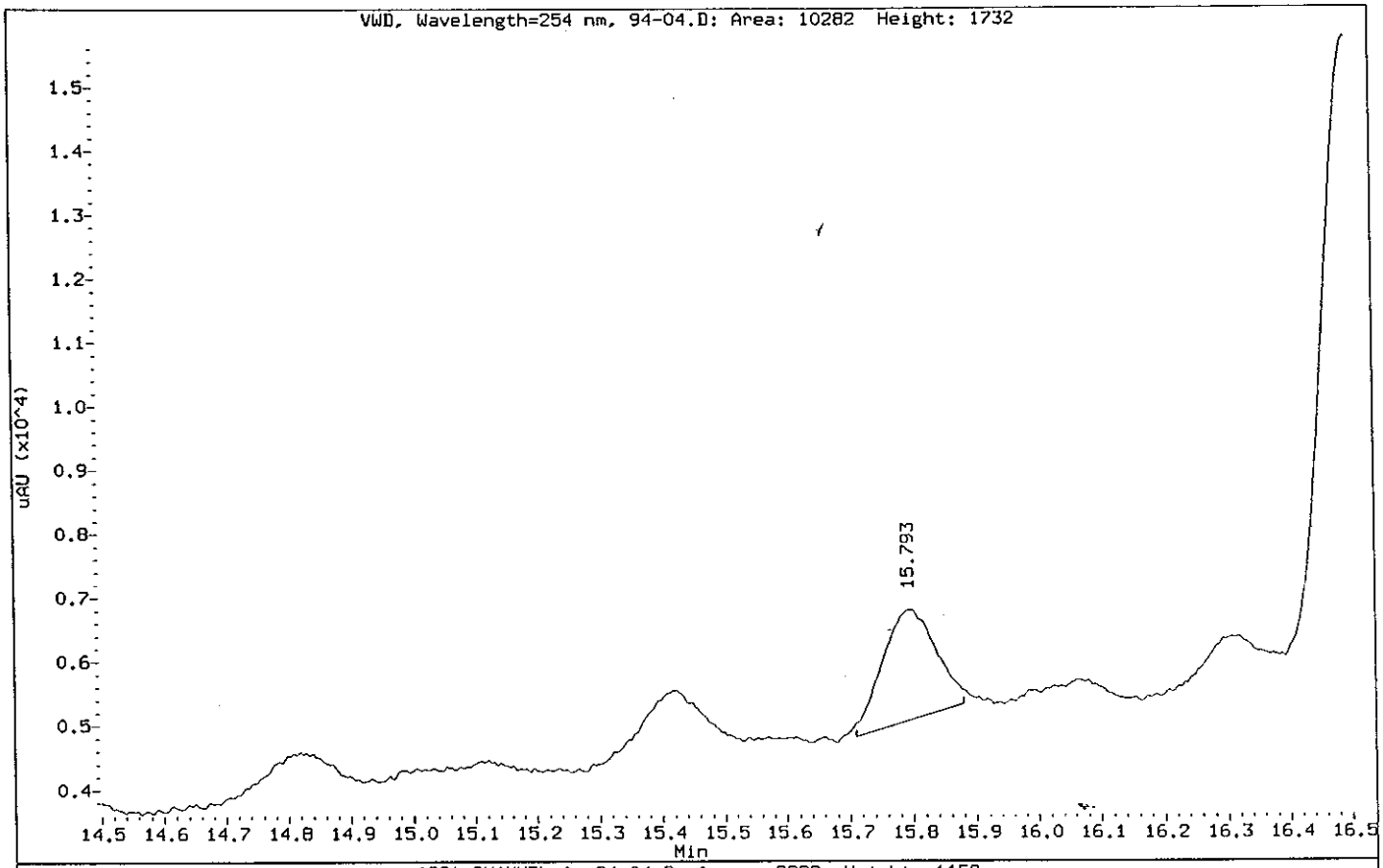
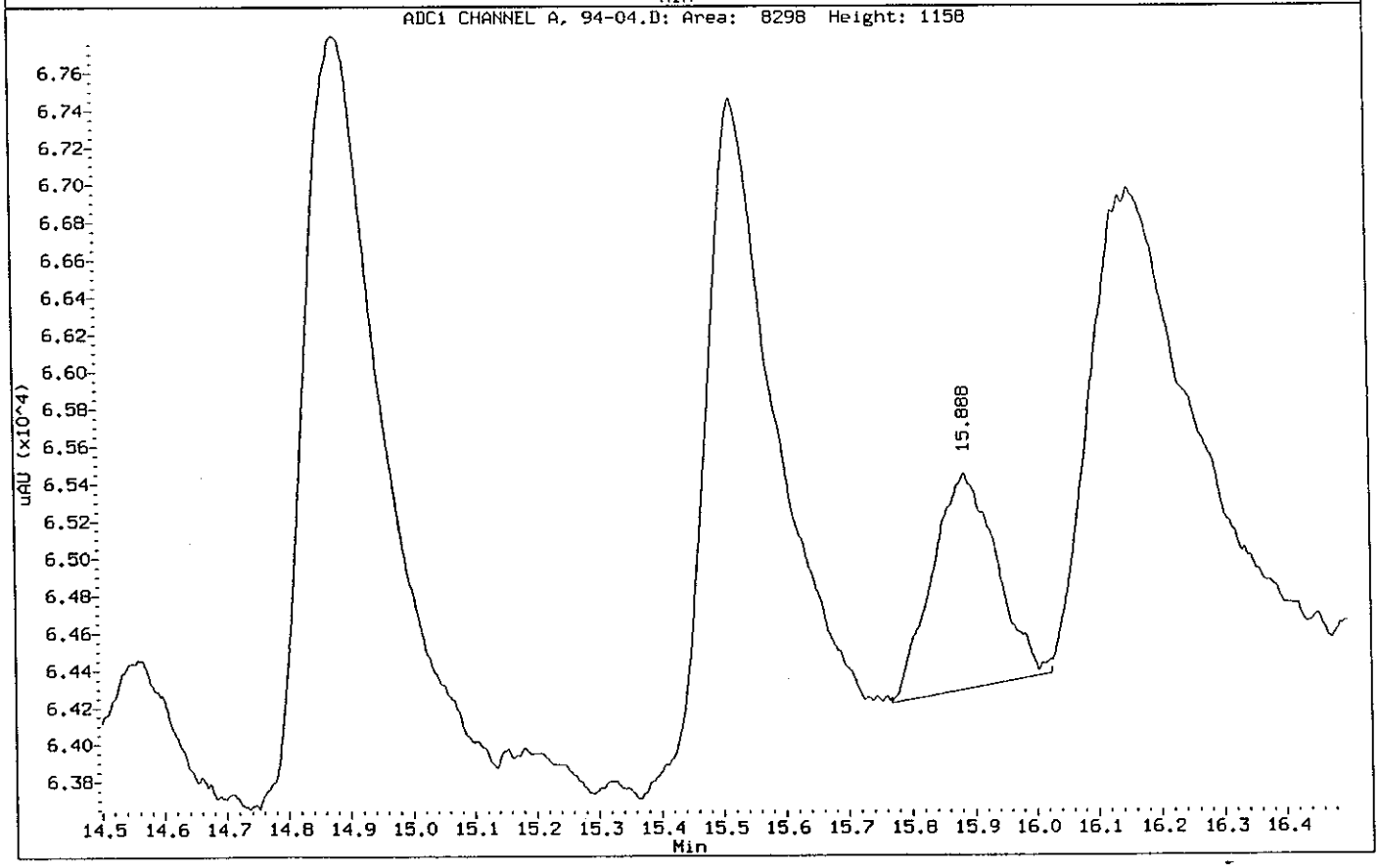
Instrument: slc02.i
Client Sample ID: 062B70S101B01

Compound: Phenanthrene
CAS Number: 85-01-8





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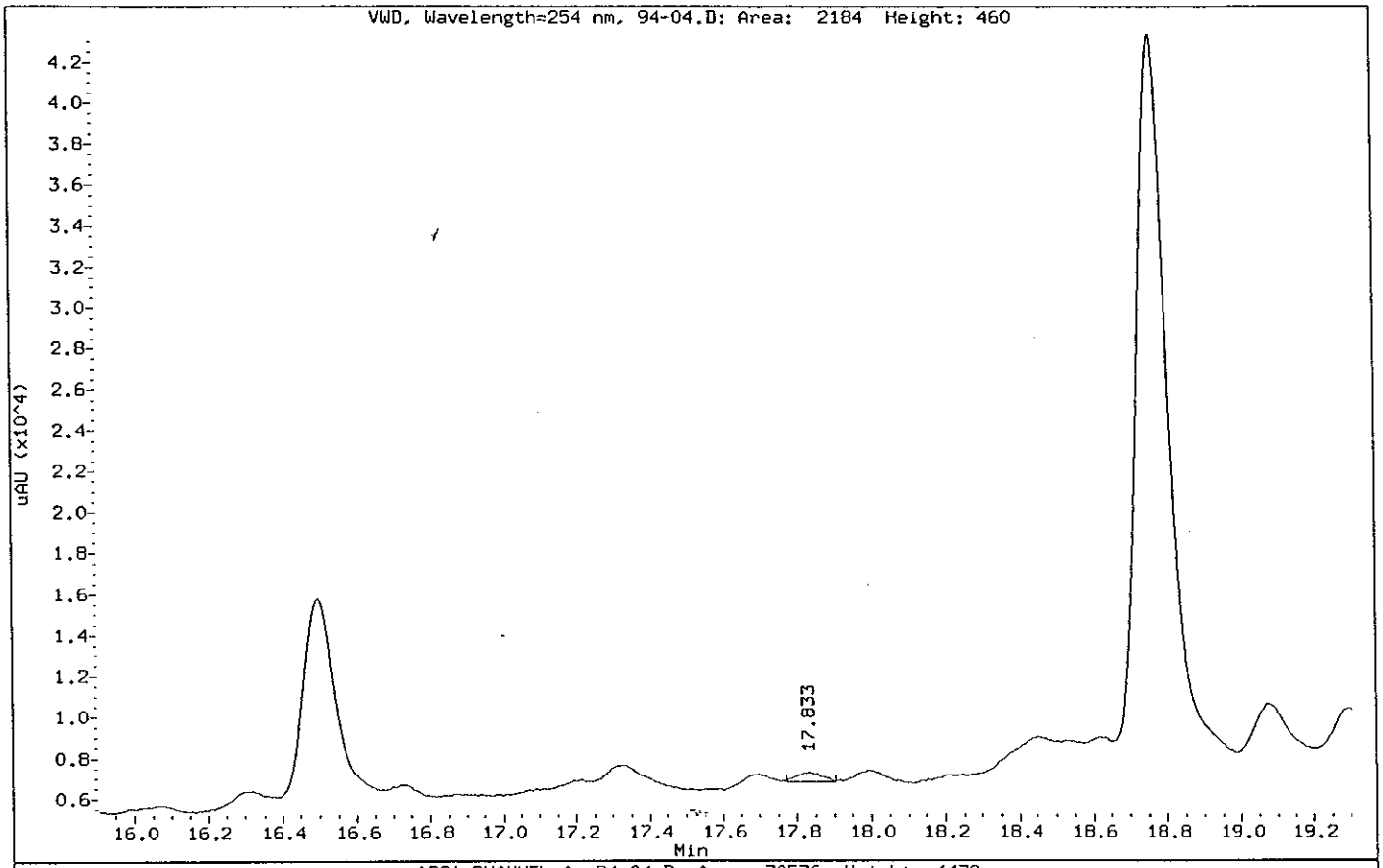
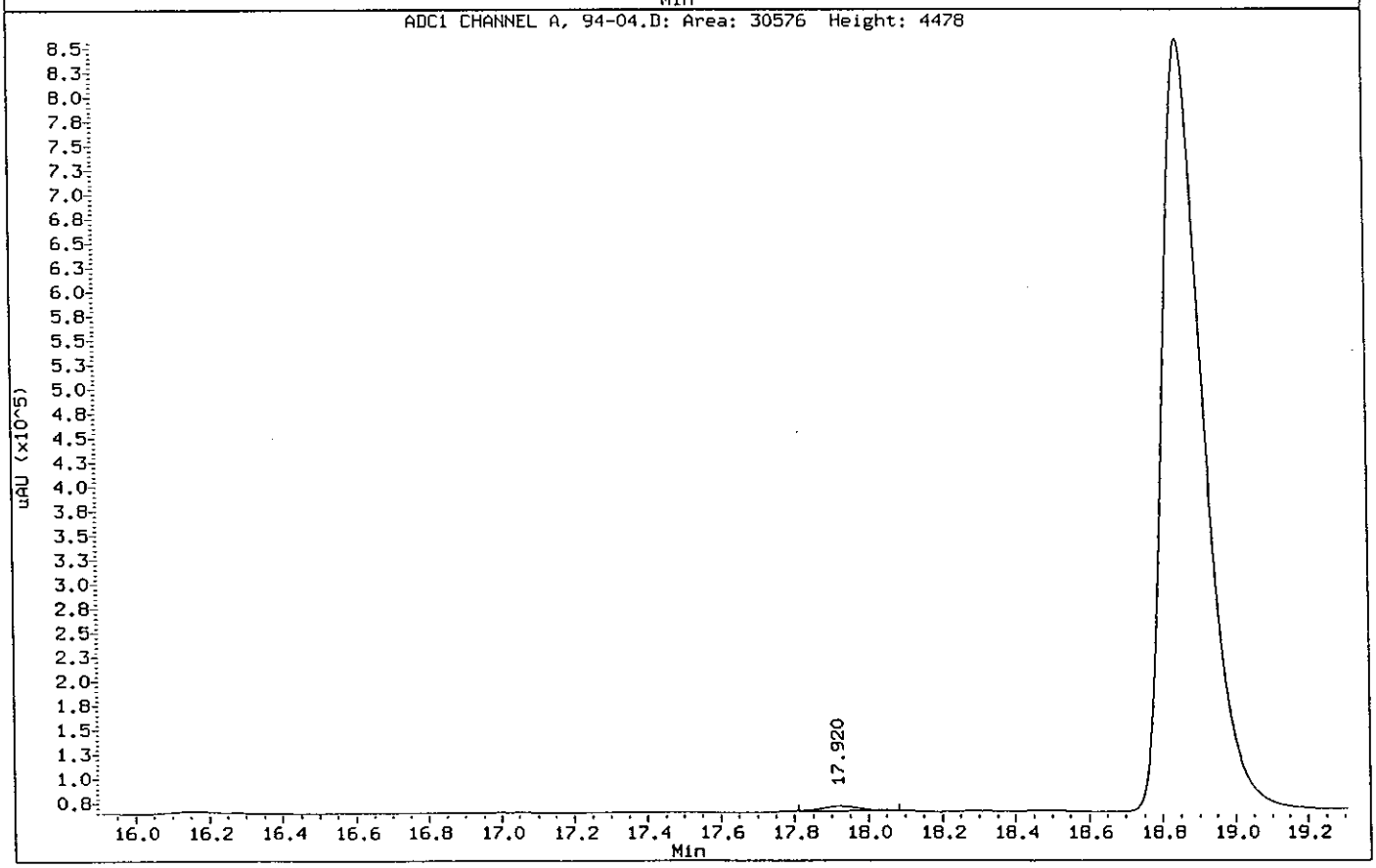
Instrument: slc02.i
Client Sample ID: 062B70S101801

Compound: Pyrene
CAS Number: 129-00-0





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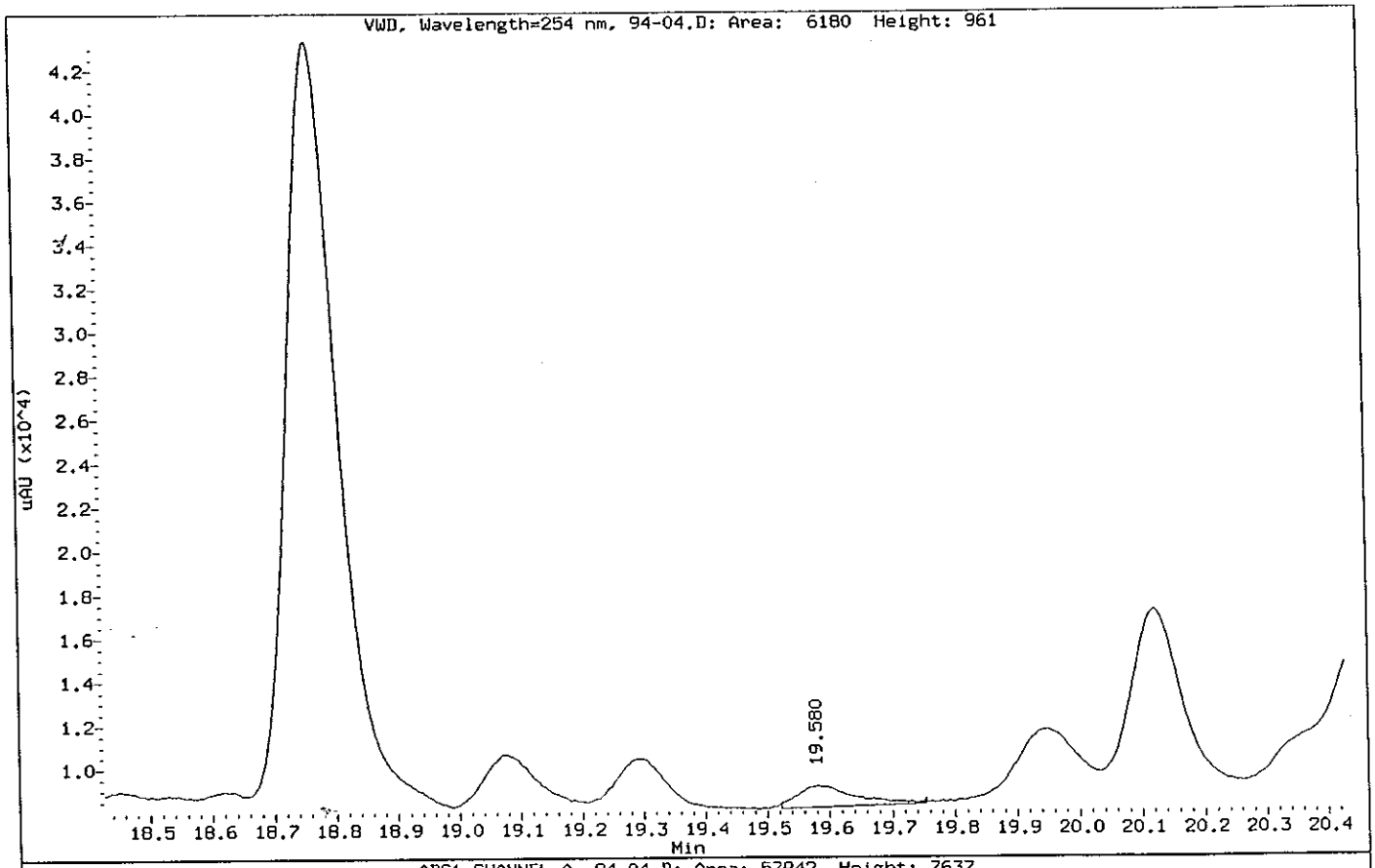
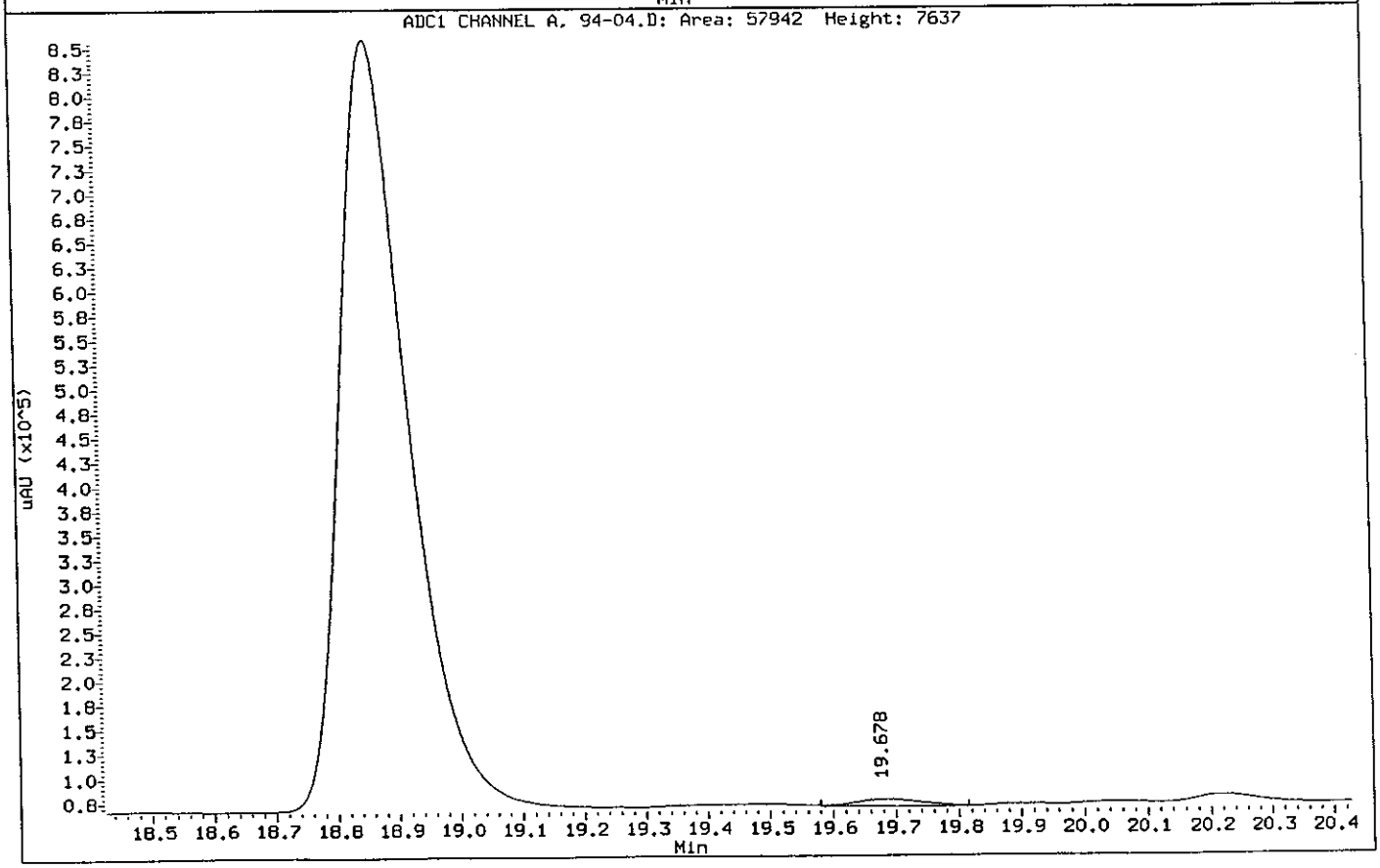
Injection Date: 29-OCT-2001 05:27
Instrument: slc02.i
Client Sample ID: 062B705101801

Compound: Benzo(a)Anthracene
CAS Number: 56-55-3





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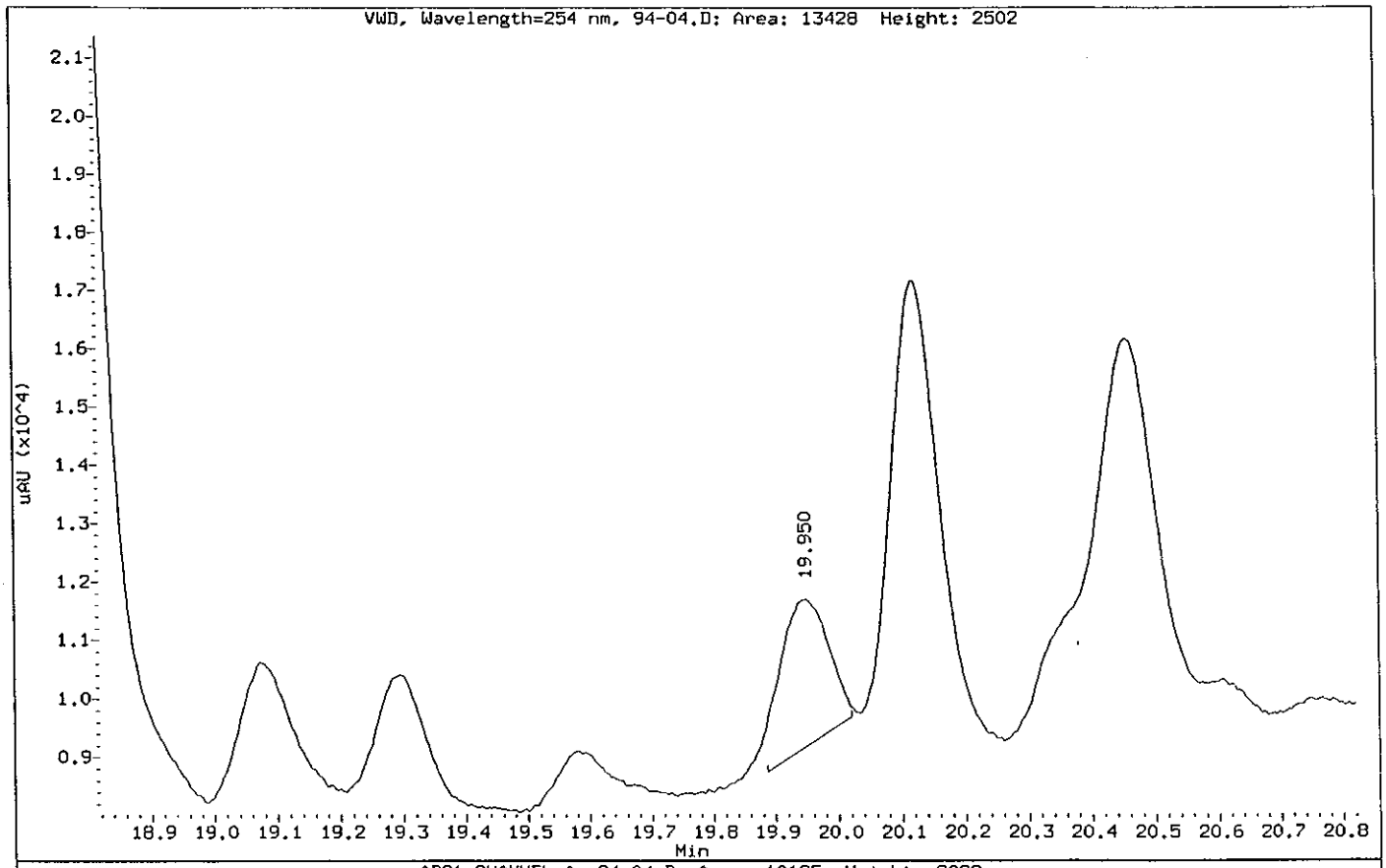
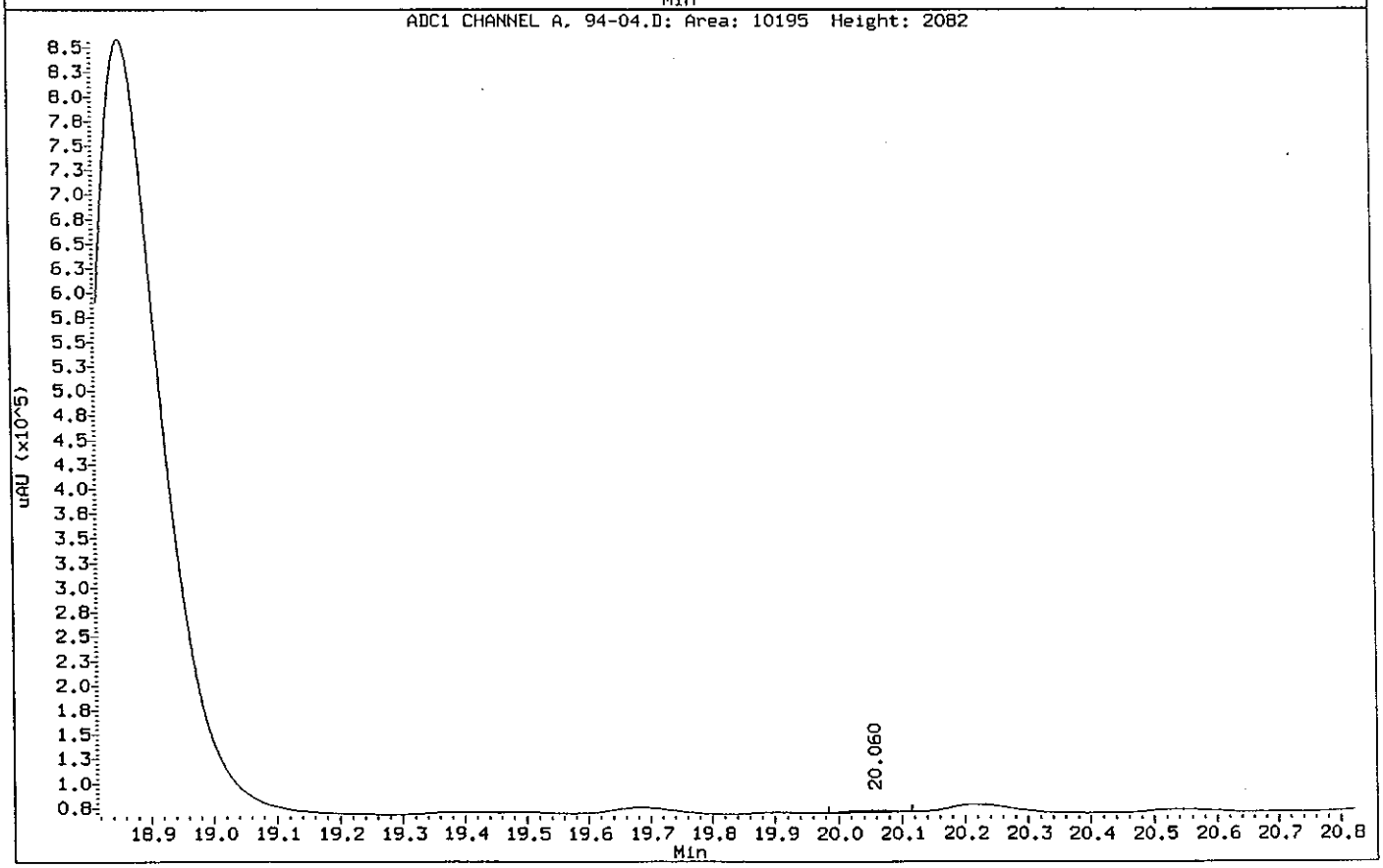
Instrument: slc02.i
Client Sample ID: 062B705101801

Compound: Chrysene
CAS Number: 218-01-9





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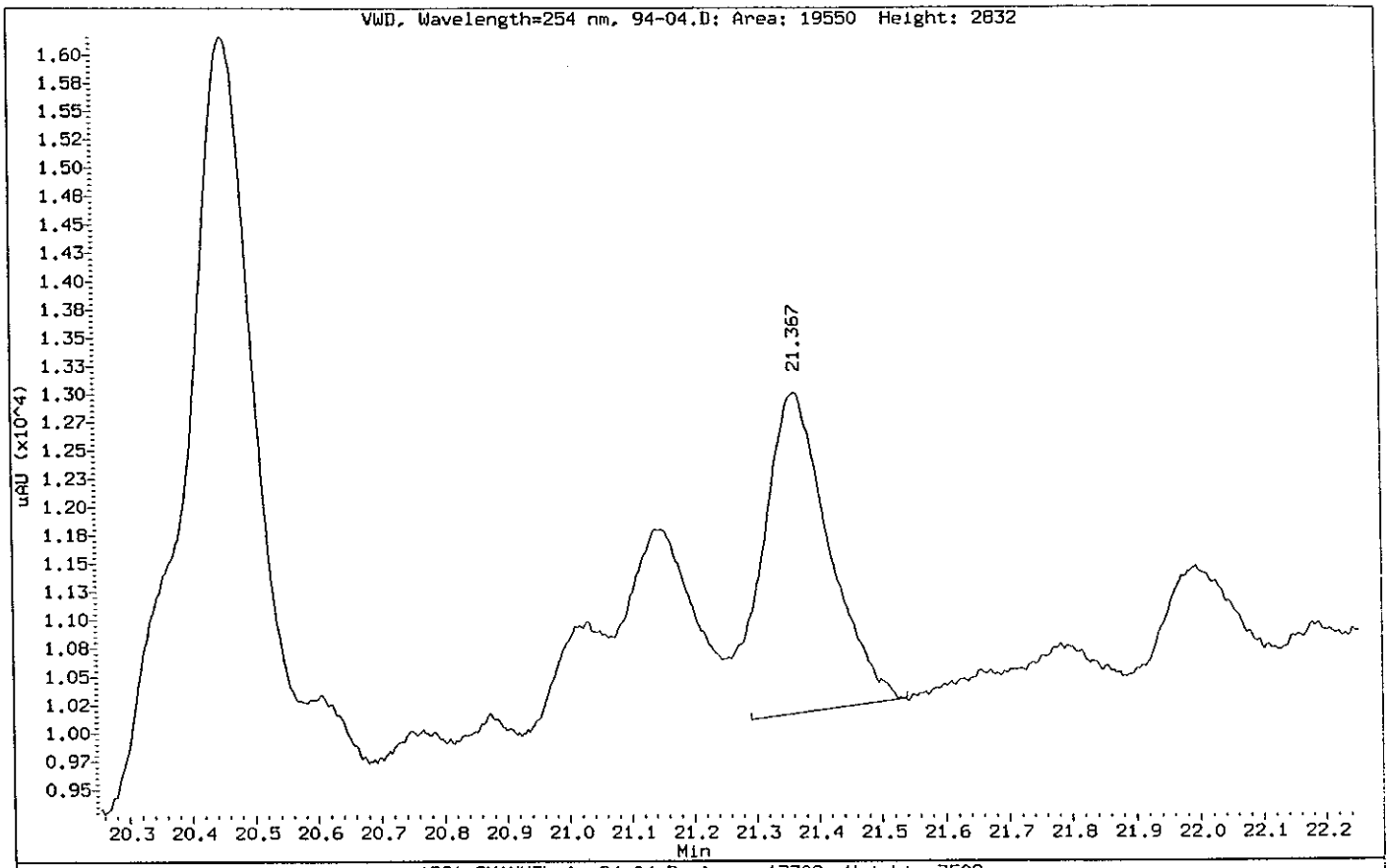
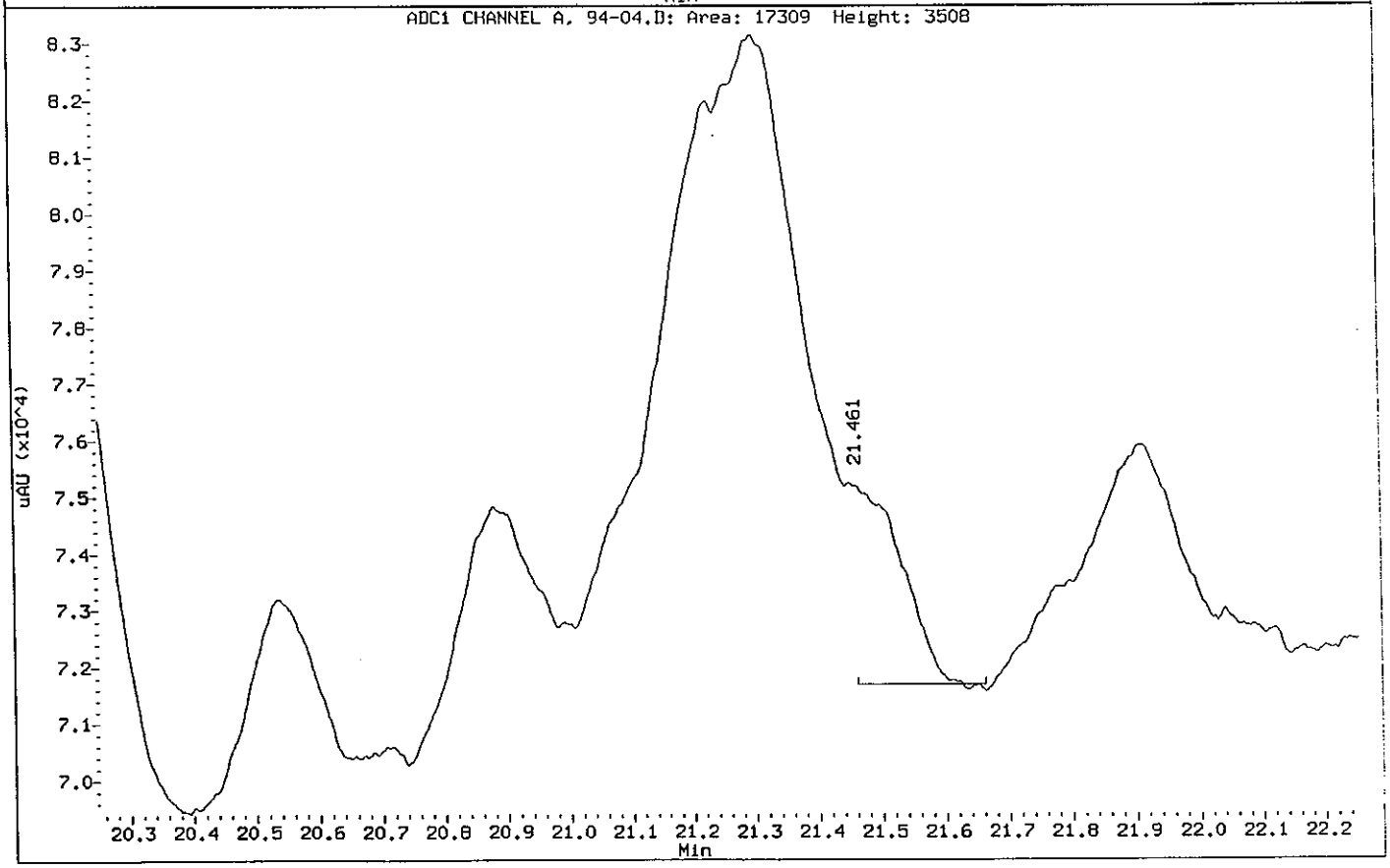
Injection Date: 29-OCT-2001 05:27
Instrument: slc02.i
Client Sample ID: 062B70S101801

Compound: Benzo(b)Fluoranthene
CAS Number: 205-99-2





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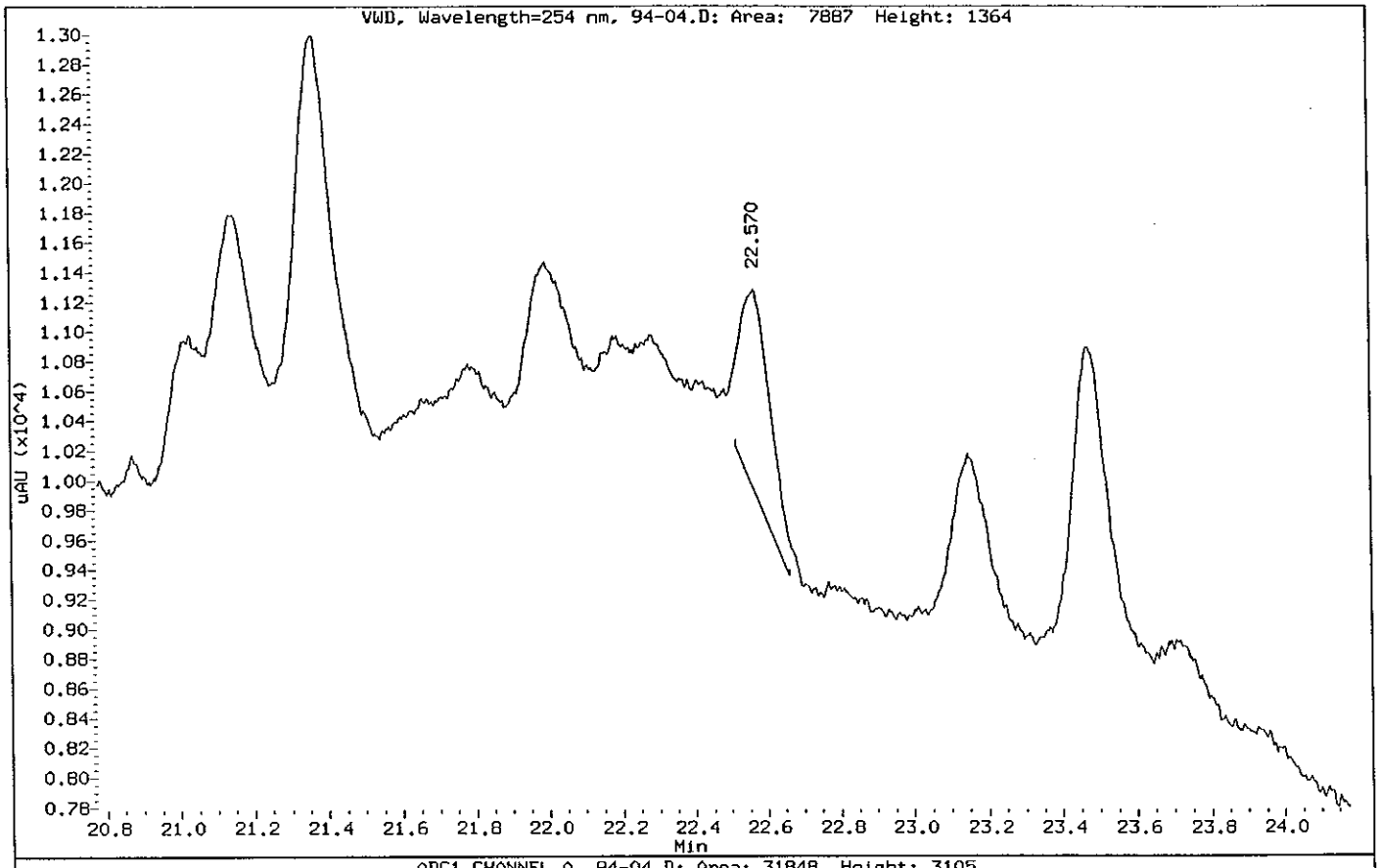
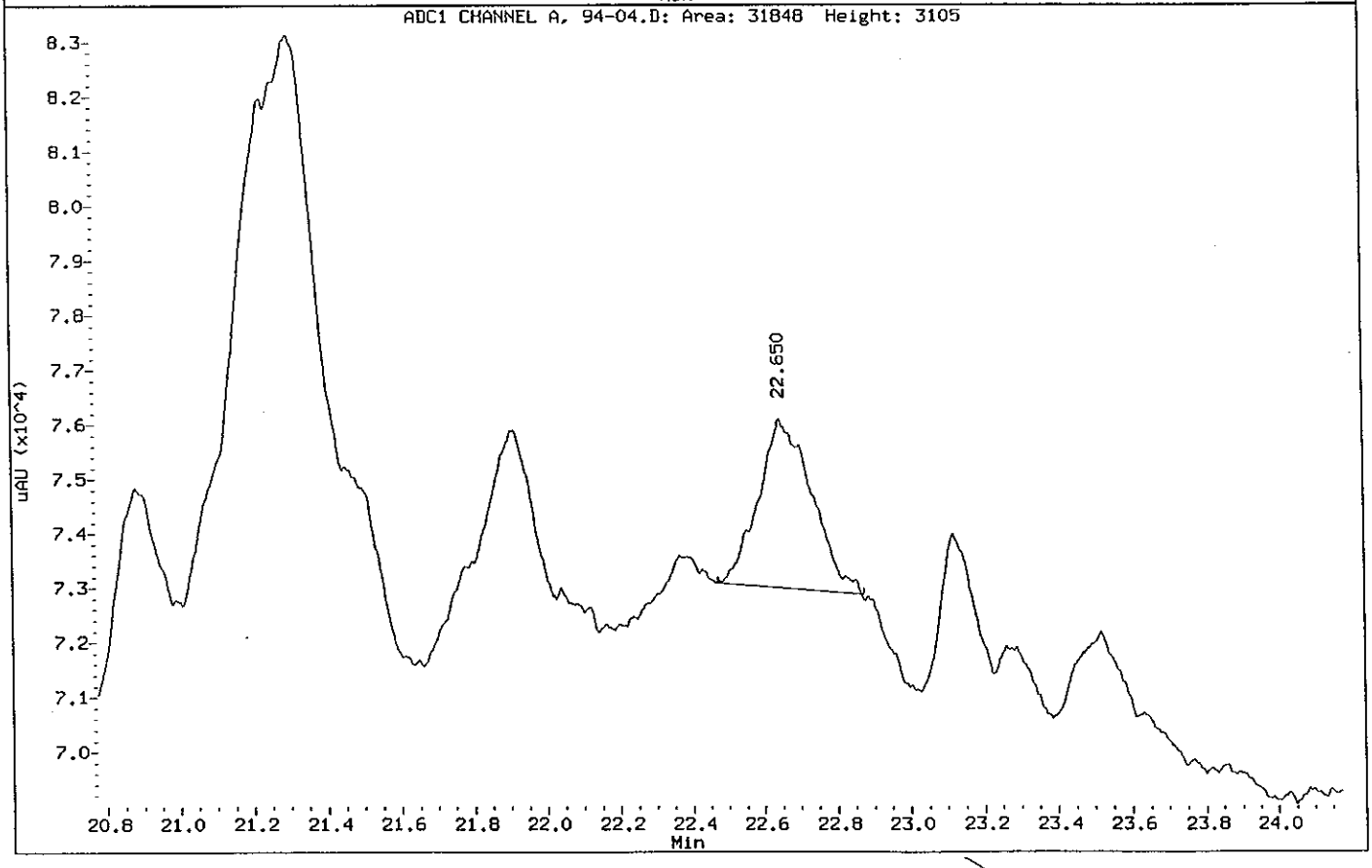
Instrument: slc02.i
Client Sample ID: 062B70S101801

Compound: Benzo(a)pyrene
CAS Number: 50-32-8





JMD

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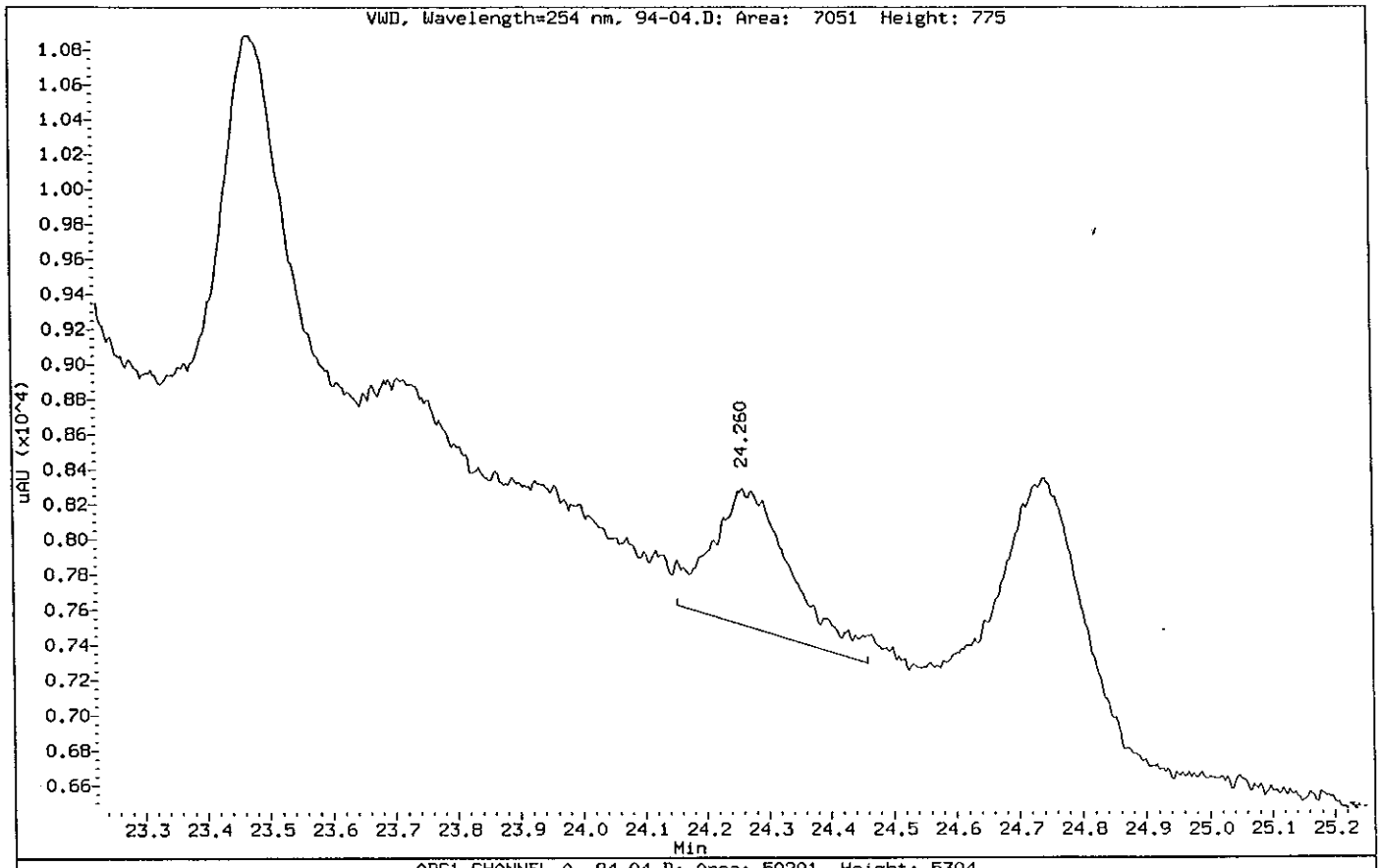
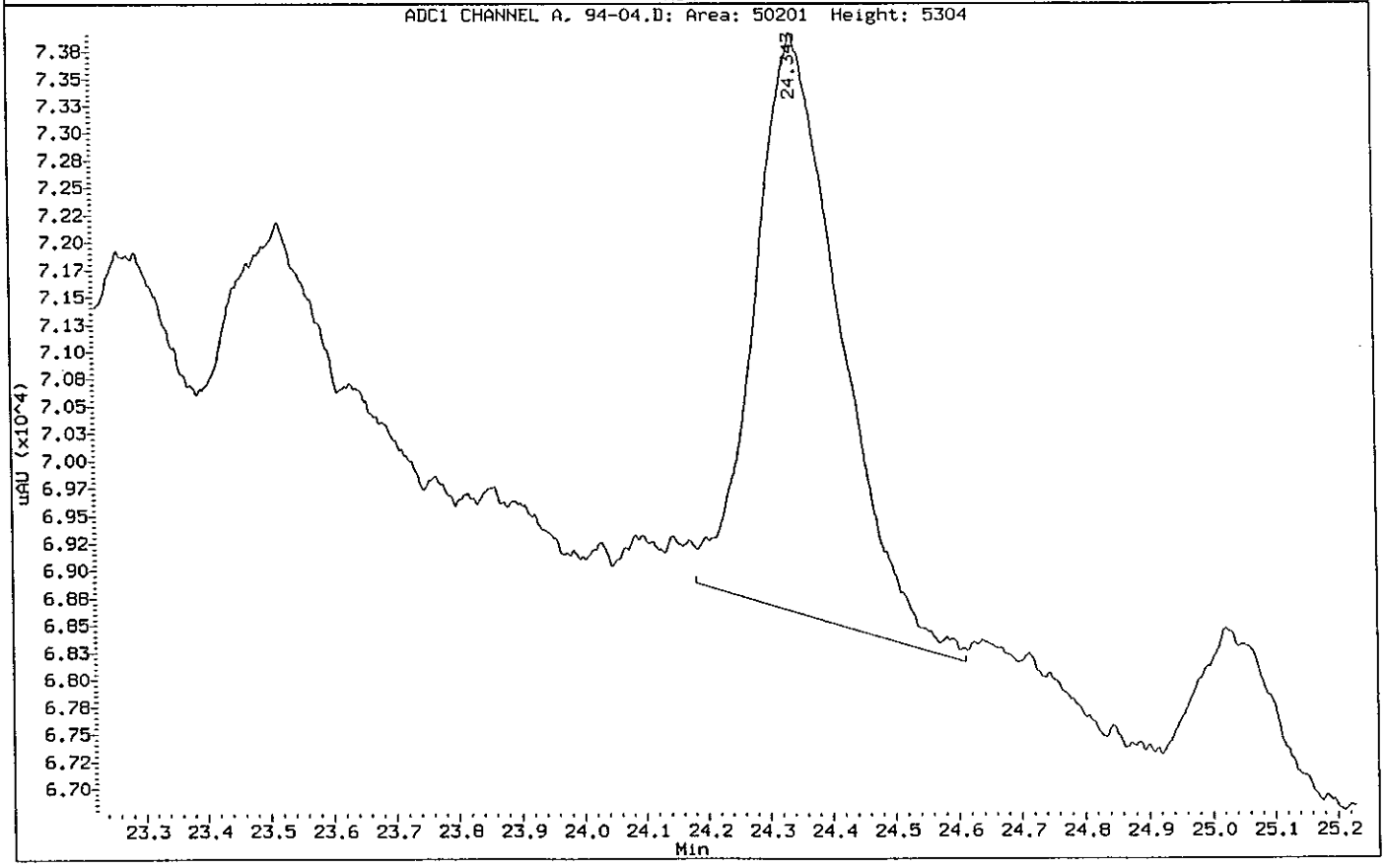
Injection Date: 29-OCT-2001 05:27
Instrument: slc02.i
Client Sample ID: 062B705101801

Compound: Benzo(ghi)Perylene
CAS Number: 191-24-2





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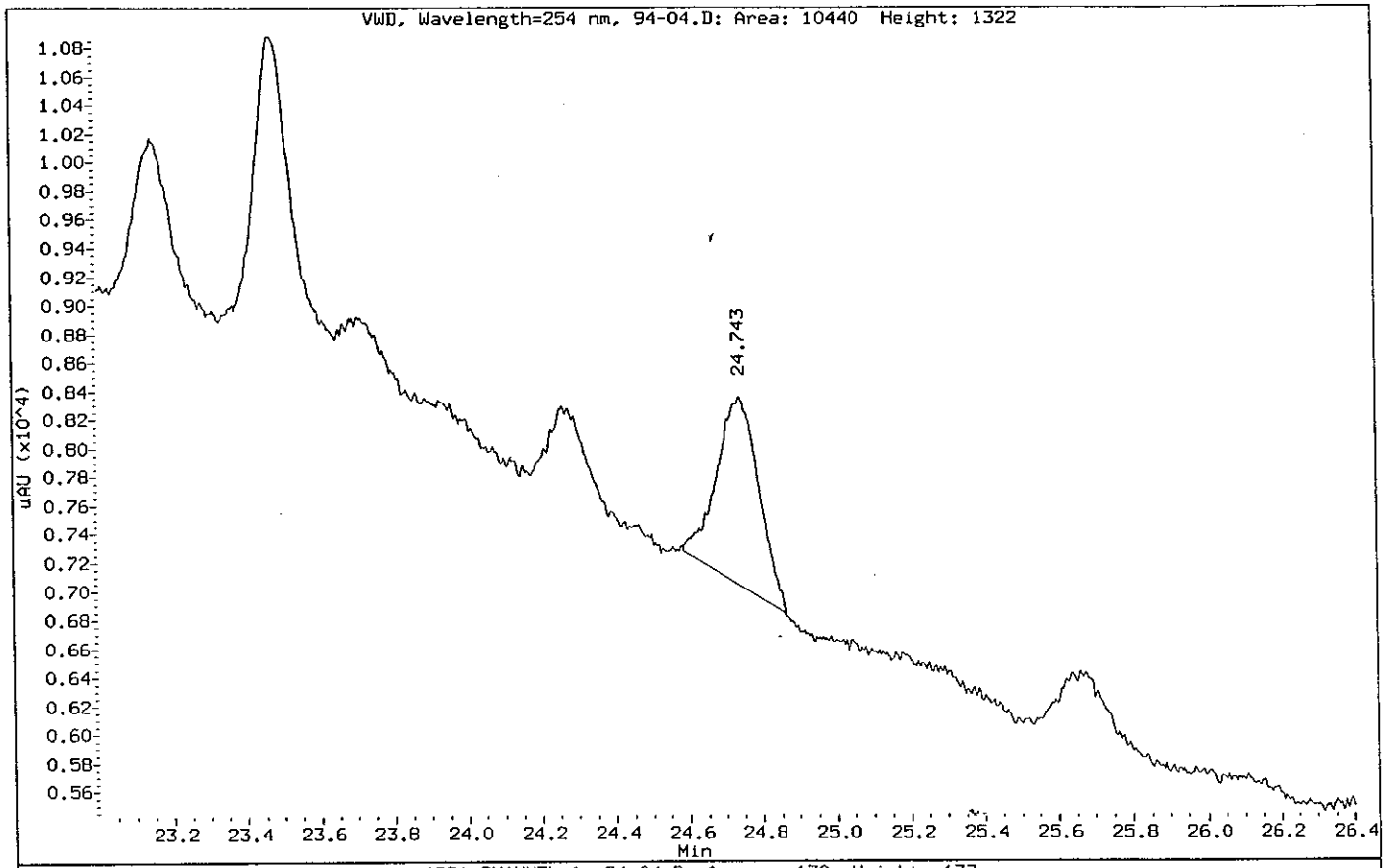
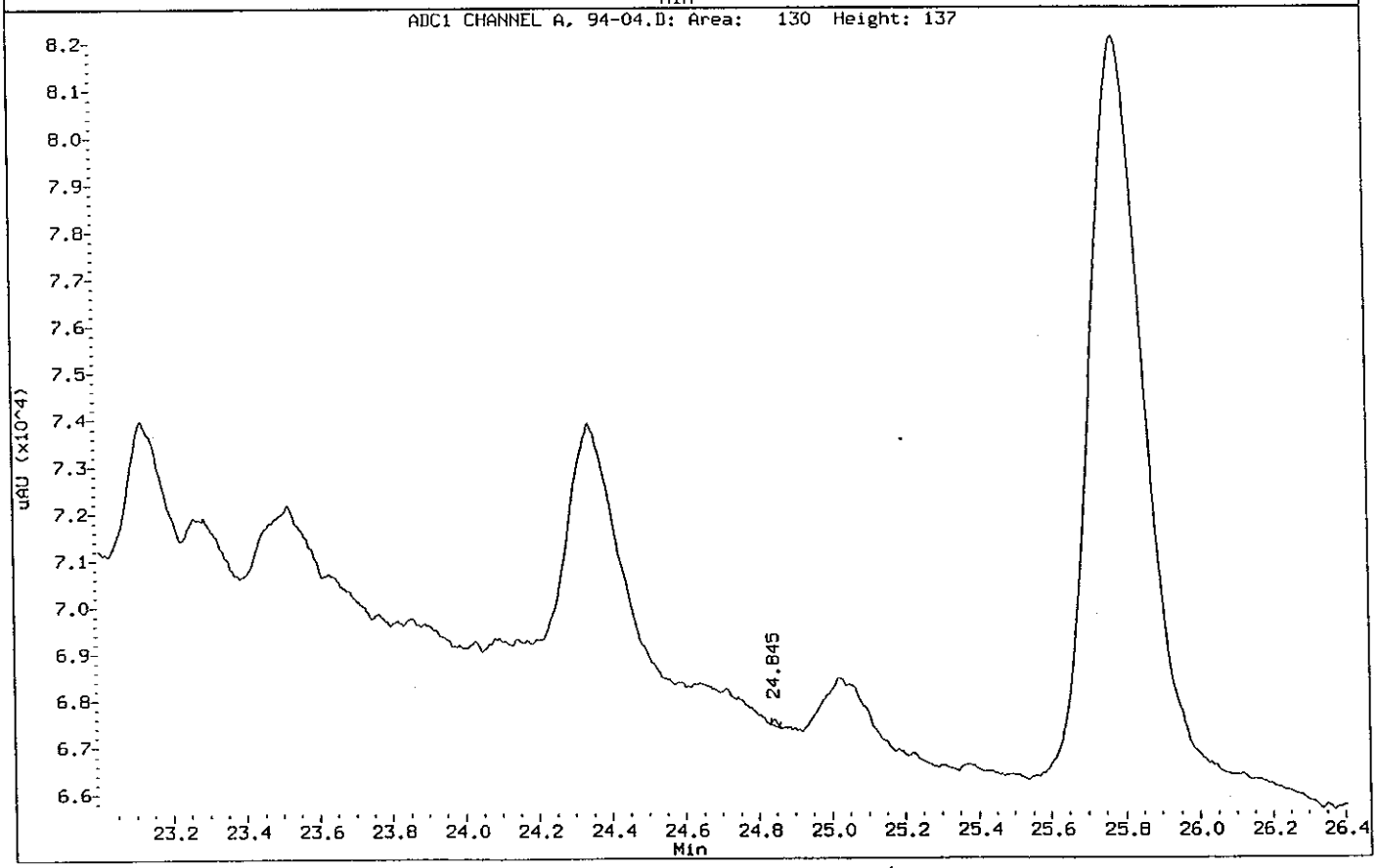
Injection Date: 29-OCT-2001 05:27
Instrument: slc02.i
Client Sample ID: 062B70S101801

Compound: Indeno(123cd)Pyrene
CAS Number: 193-39-5





PEL Laboratories

Data file : \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-05.D
Lab Smp Id: 211009405 Client Smp ID: 062B96S101801
Inj Date : 29-OCT-2001 06:02
Operator : rood Inst ID: slc02.i
Smp Info : 211009405
Misc Info :
Comment :
Method : \\SVHPLC\ee\chem\slc02.i\L21028R1.b\8310S.m
Meth Date : 02-Nov-2001 08:36 jdonnelly Quant Type: ISTD
Cal Date : 28-OCT-2001 20:26 Cal File: PT2UGML.D
Als bottle: 20
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: navy50.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	10.977	% Moisture
Vf	1.000	Final Volume

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	REL RT	SIGNAL	RESPONSE	(ug/ml)	(ug/kg)	TARGET RANGE	RATIO
* 1 Carbazole (ISTD)						CAS #: 86-74-8		
11.283	10.610	(1.000)	VWD1A	269632			80.00- 120.00	100.00
11.373	10.610	(1.000)	ADC1A	2038607	10.0000		652.03- 978.05	756.07
10 Fluoranthene						CAS #: 206-44-0		
17.440	17.066	(1.546)	VWD1A	10781	0.62719	21.3	80.00- 120.00	100.00(aM)
17.490	17.066	(1.550)	ADC1A	41191			6.36- 9.54	382.07
11 Pyrene						CAS #: 129-00-0		
17.833	17.606	(1.581)	VWD1A	49497	3.75184	128	80.00- 120.00	100.00
17.928	17.606	(1.589)	ADC1A	539497	3.06131	104	930.64-1395.96	1089.96
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.763	18.593	(1.663)	VWD1A	204703	13.3939	456	80.00- 120.00	100.00(M)

RT	EXP RT	REL RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	CONCENTRATIONS FINAL (ug/kg)	TARGET RANGE	RATIO
$ 12 p-Terphenyl-d14 (SURR) (continued)								
18.855	18.593	(1.671)	ADC1A	6258136	14.9601	509	2246.35-3369.53	3057.18
13 Benzo(a)Anthracene						CAS #: 56-55-3		
19.580	19.426	(1.735)	VWD1A	18826	0.46685	15.9	80.00- 120.00	100.00(aM)
19.676	19.426	(1.744)	ADC1A	204960	0.47291	16.1	881.58-1322.37	1088.71
14 Chrysene						CAS #: 218-01-9		
19.960	19.820	(1.769)	VWD1A	31012	0.53827	18.3	80.00- 120.00	100.00(aM)
20.063	19.820	(1.778)	ADC1A	33029	0.24071	8.2	190.14- 285.21	106.50
15 Benzo(b)Fluoranthene						CAS #: 205-99-2		
21.356	21.253	(1.893)	VWD1A	43402	0.97634	33.2	80.00- 120.00	100.00(aM)
21.441	21.253	(1.900)	ADC1A	81667	7.01654	239	20.85- 31.28	188.16
16 Benzo(k)Fluoranthene						CAS #: 207-08-9		
21.986	21.883	(1.949)	VWD1A	14720	0.43321	14.7	80.00- 120.00	100.00(aM)
22.075	21.883	(1.956)	ADC1A	14742	0.66367	22.6	52.76- 79.15	100.15
19 Benzo(ghi)Perylene						CAS #: 191-24-2		
24.250	24.226	(2.149)	VWD1A	7143	0.47670	16.2	80.00- 120.00	100.00(aM)
24.318	24.226	(2.155)	ADC1A	91831	3.02572	103	155.32- 232.98	1285.61
20 Indeno(123cd)Pyrene						CAS #: 193-39-5		
24.720	24.703	(2.191)	VWD1A	15000	0.39706	13.5	80.00- 120.00	100.00(aMH)
24.881	24.703	(2.205)	ADC1A	4038			0.00- 0.00	26.92

QC Flag Legend

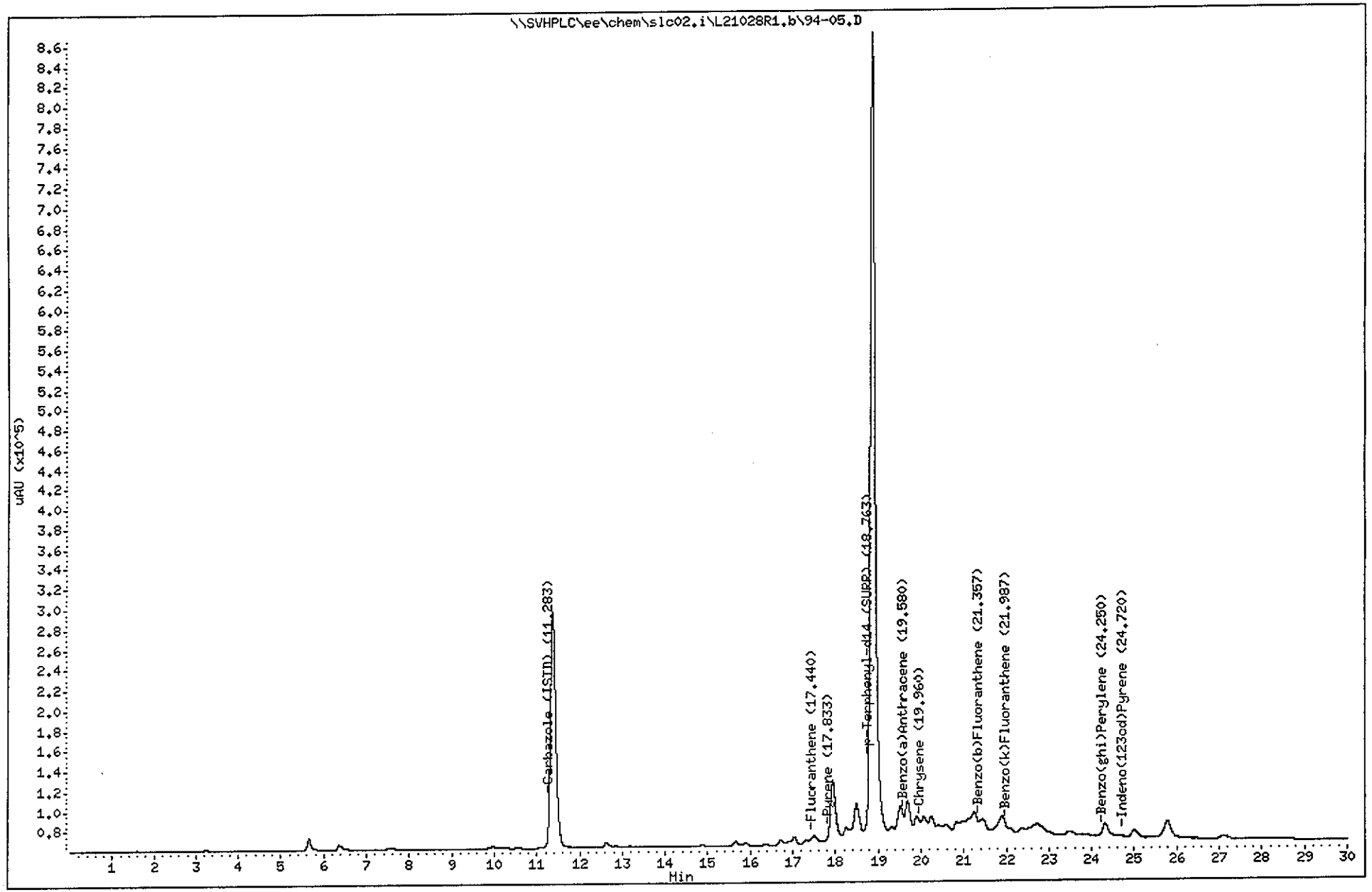
a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-05.D
Date : 29-OCT-2001 06:02
Client ID: 062B96S101801
Sample Info: 211009405

Instrument: slc02.i

Operator: rood
Column diameter: 4.60

Column phase: Vydac201TP54



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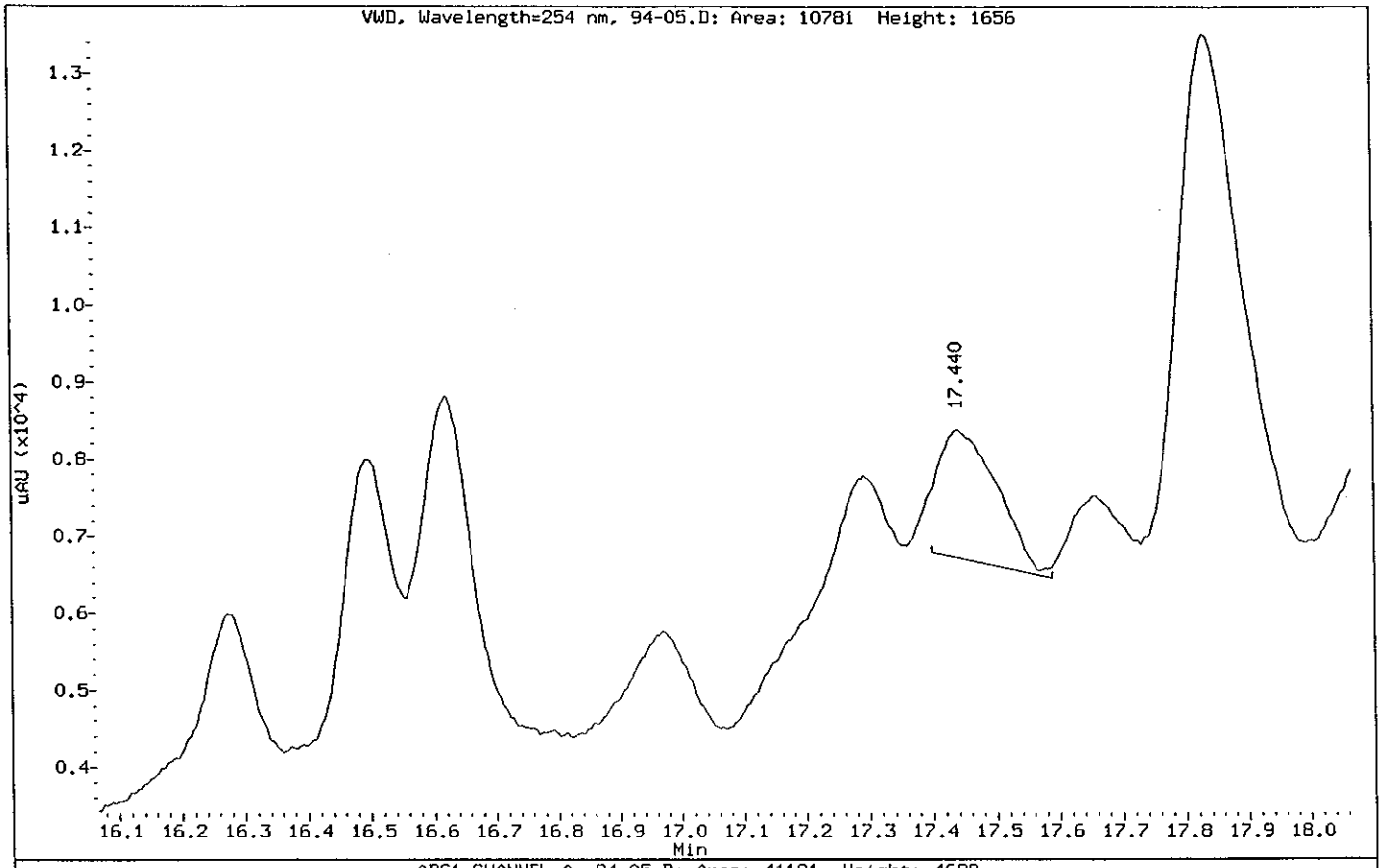
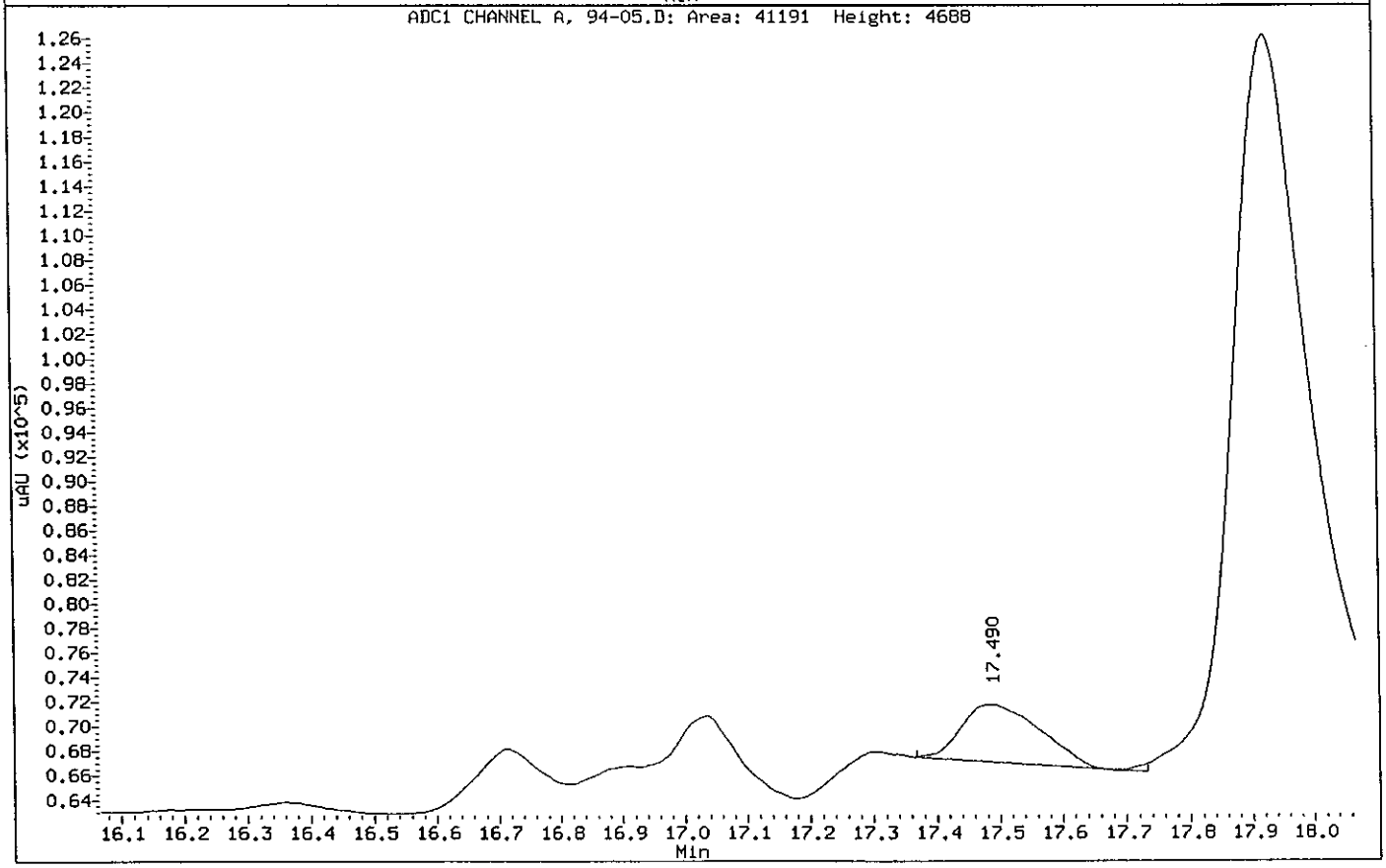
Injection Date: 29-OCT-2001 06:02
Instrument: slc02.i
Client Sample ID: 062B96S101801

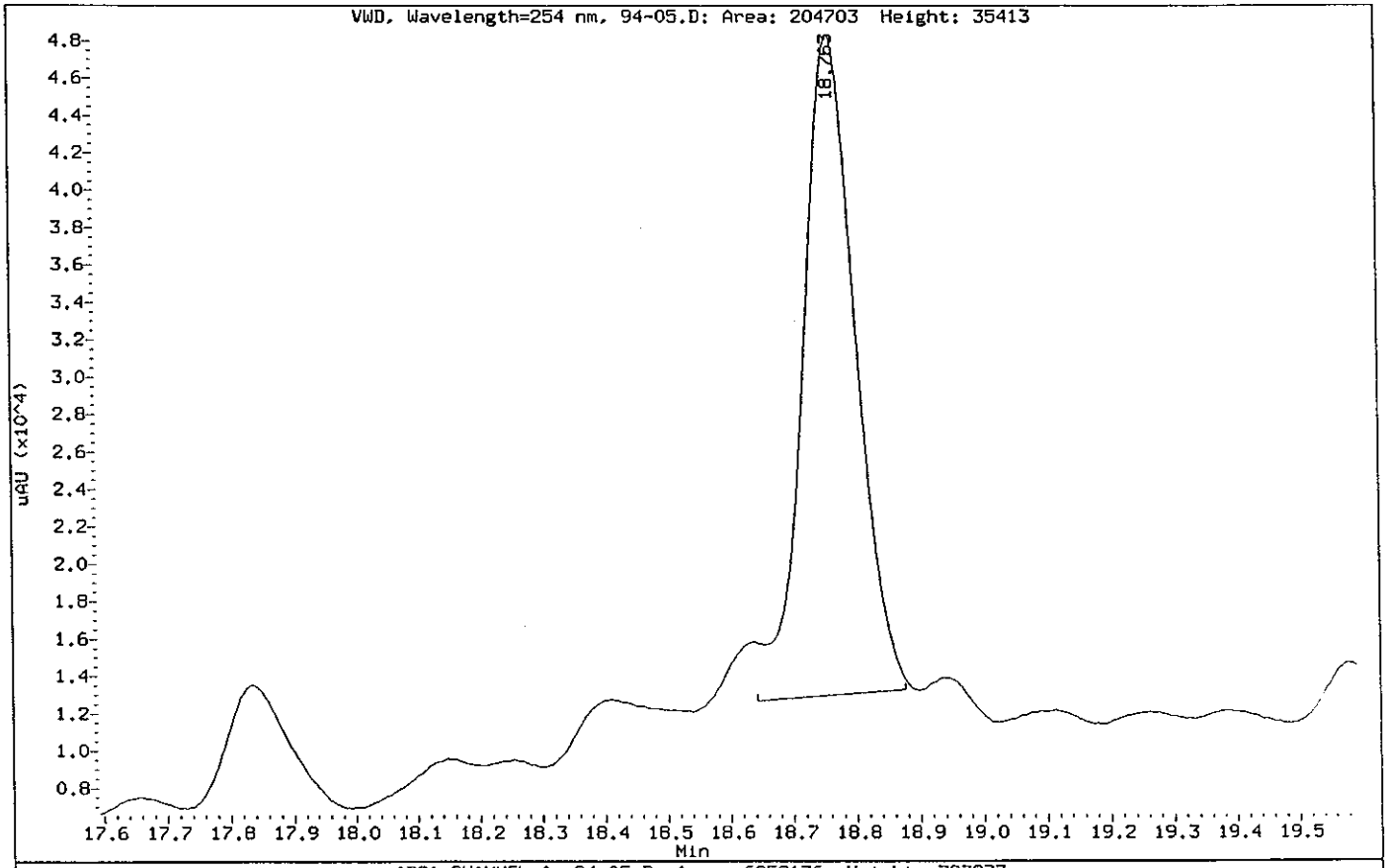
Compound: Fluoranthene
CAS Number: 206-44-0

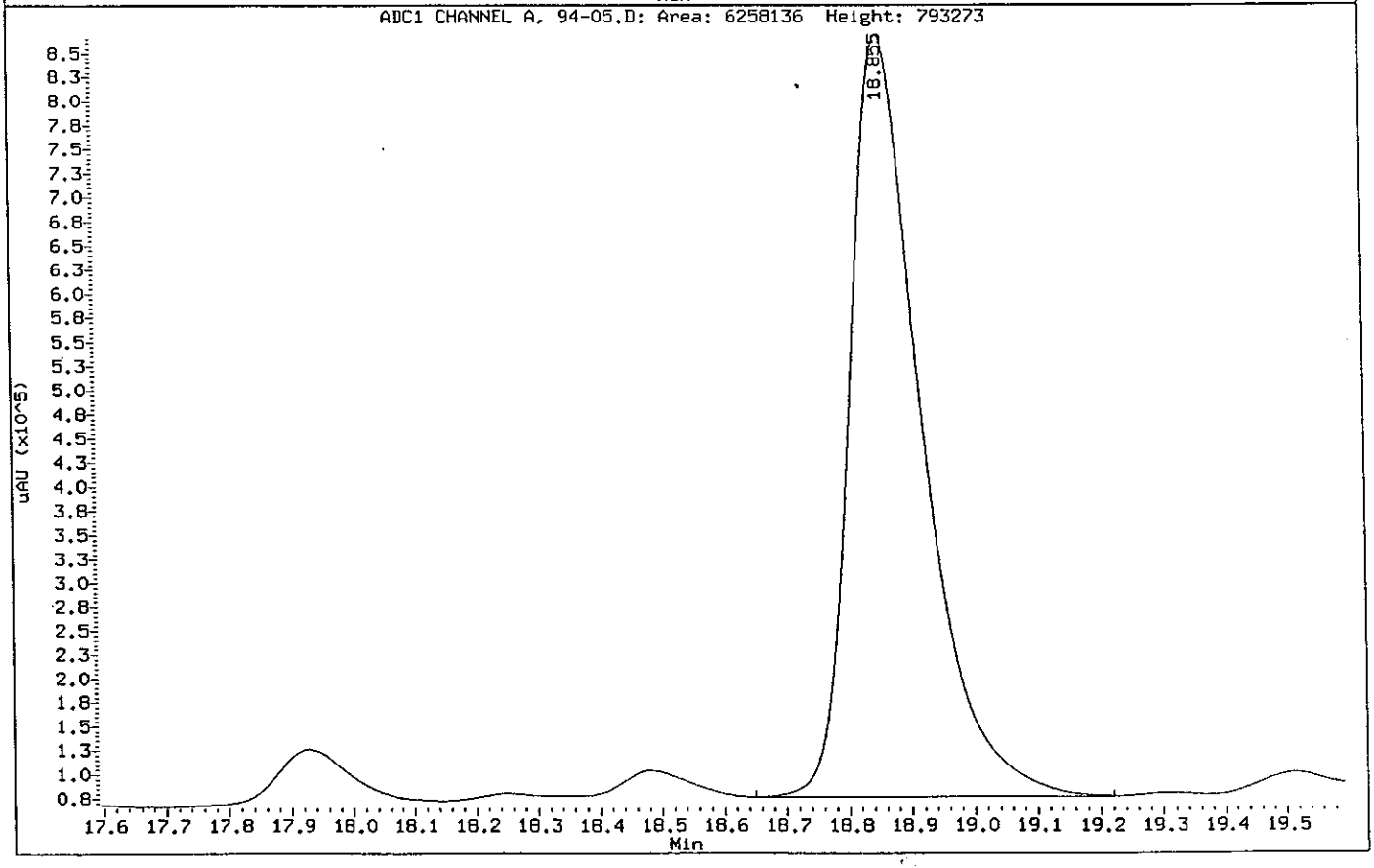




Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-05.D
Injection Date: 29-OCT-2001 06:02
Instrument: slc02.i
Client Sample ID: 062B96S101801

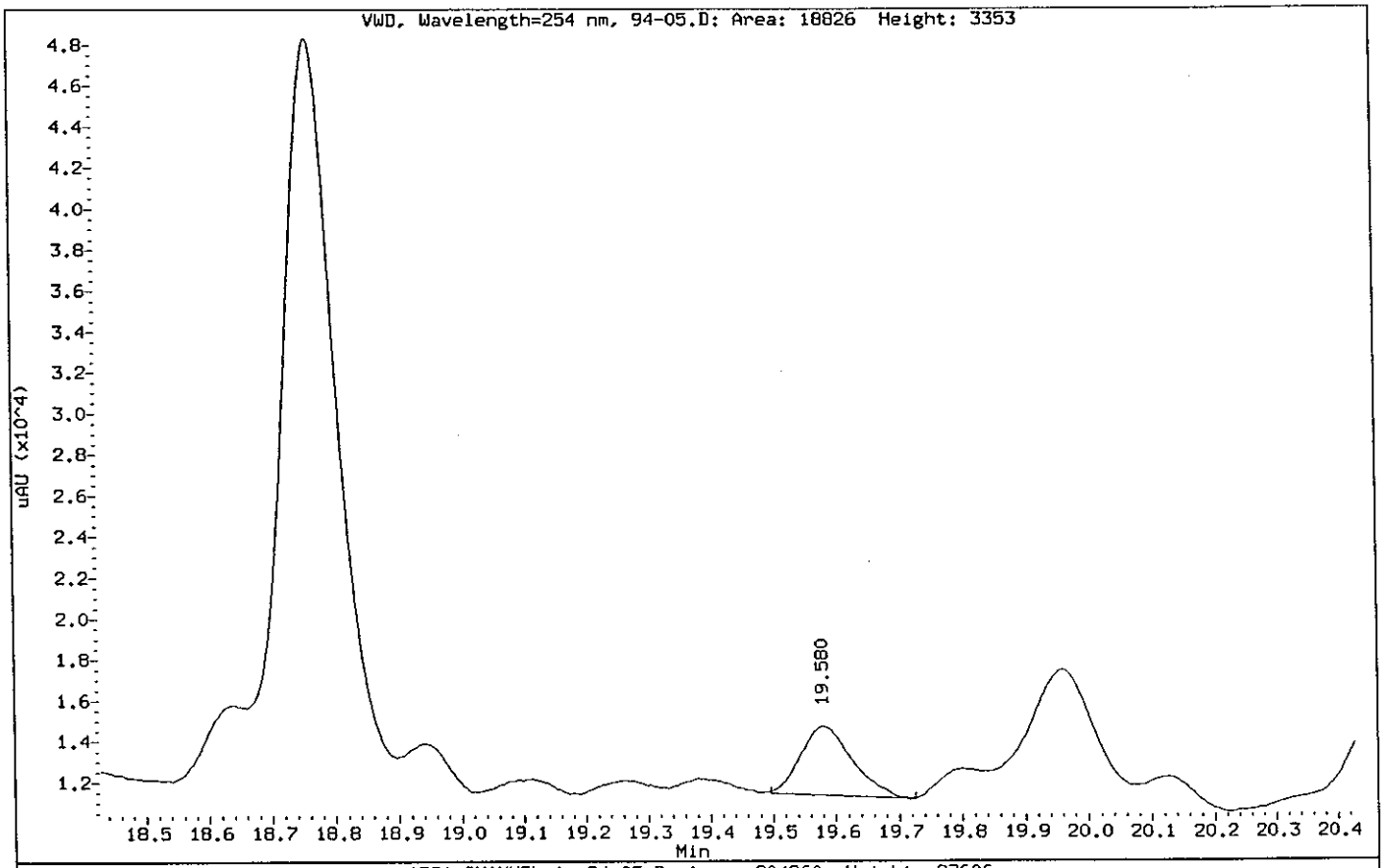
Compound: p-Terphenyl-d14 (SURR)
CAS Number: 1718-51-0

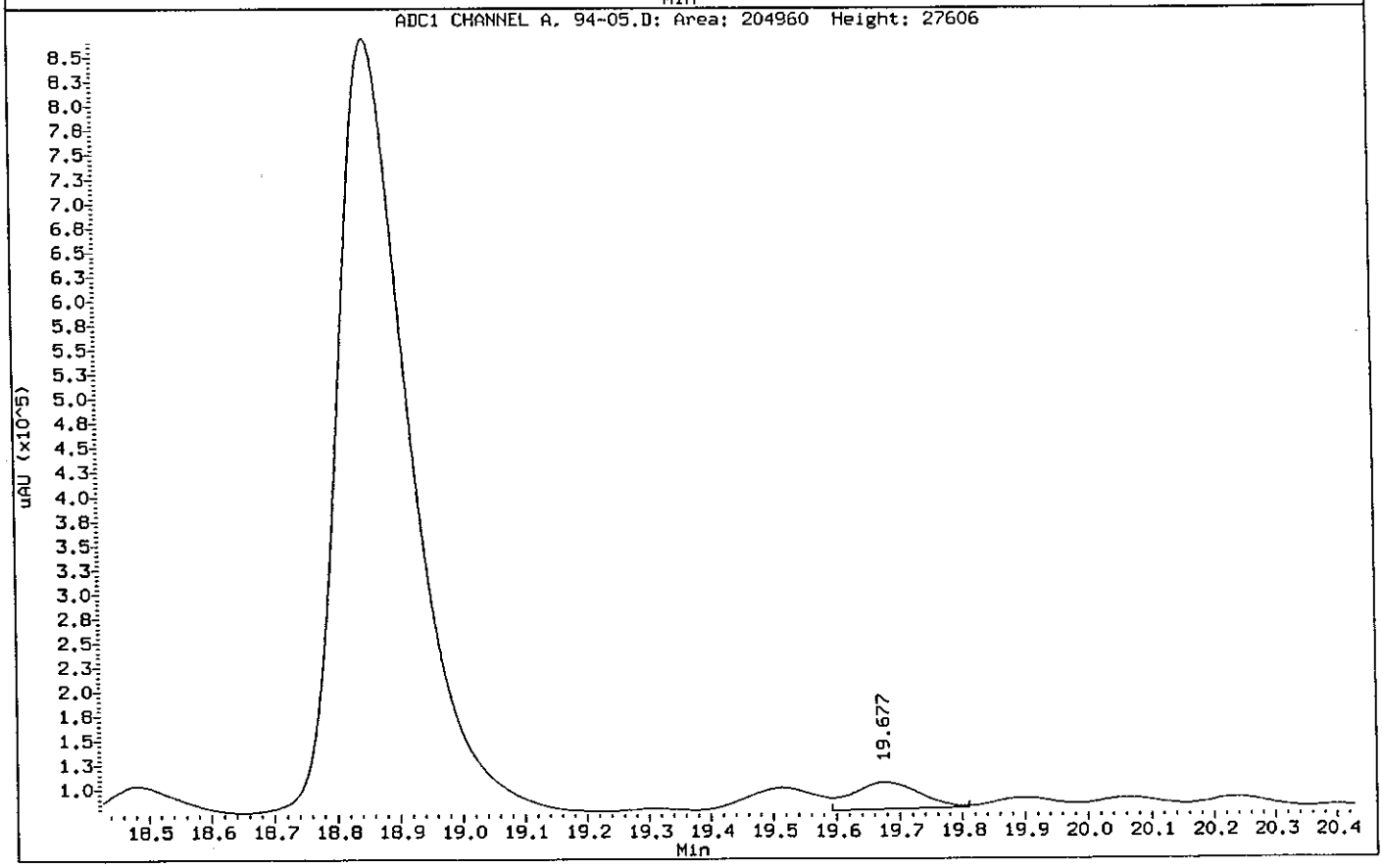




Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-05.D
Injection Date: 29-OCT-2001 06:02
Instrument: slc02.i
Client Sample ID: 062B965101801

Compound: Benzo(a)Anthracene
CAS Number: 56-55-3





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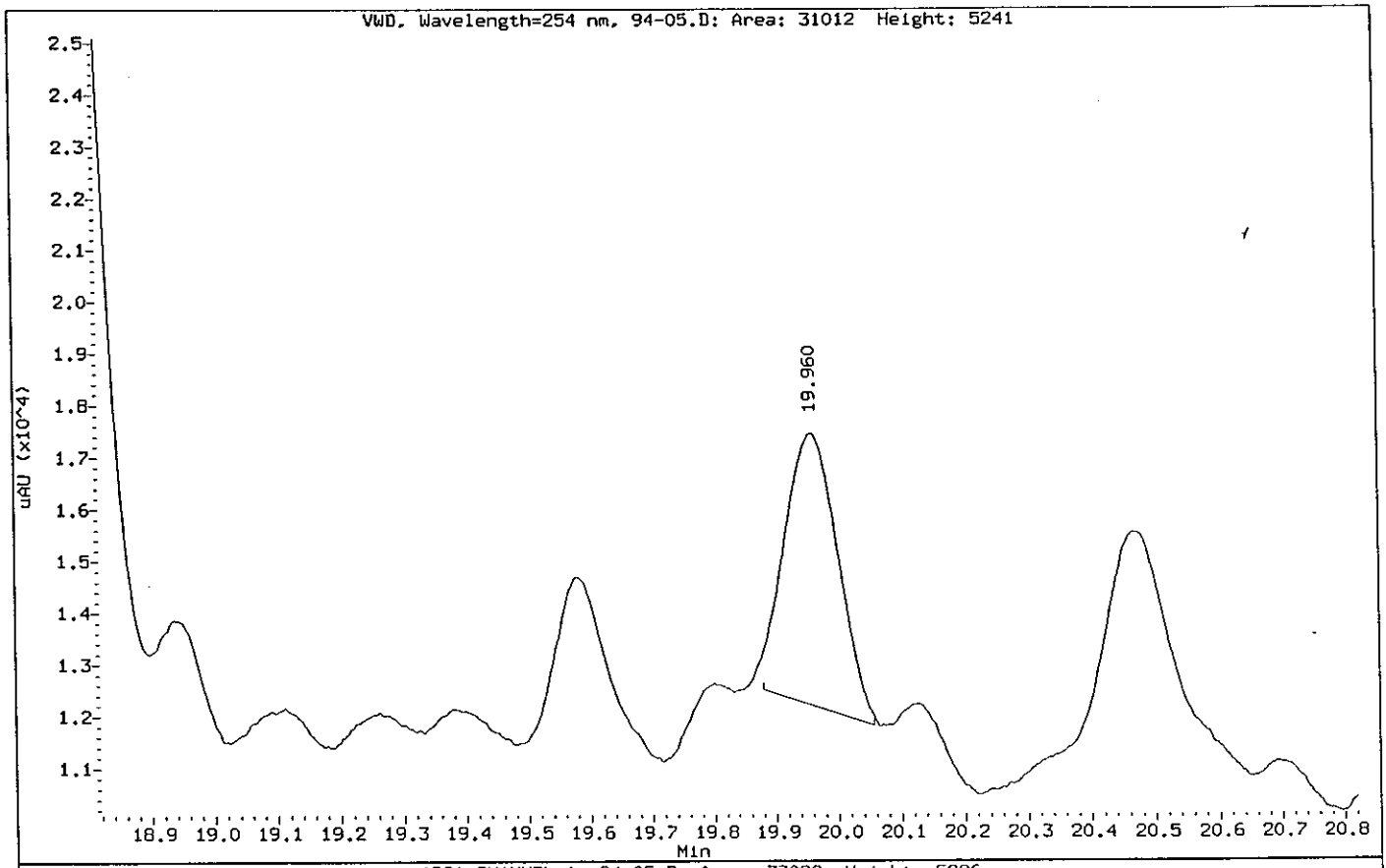
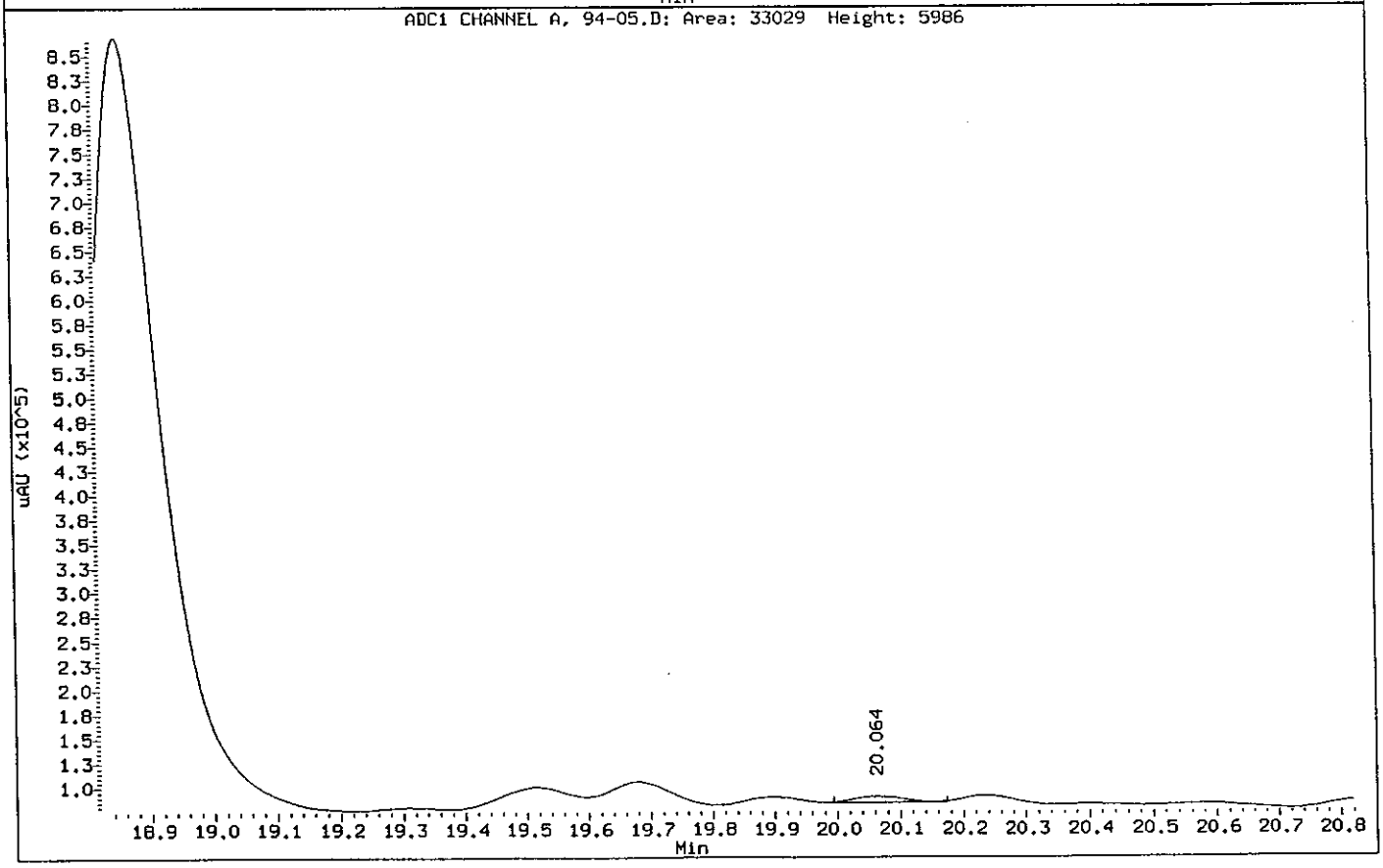
Injection Date: 29-OCT-2001 06:02
Instrument: slc02.i
Client Sample ID: 062B965101801

Compound: Chrysene
CAS Number: 218-01-9





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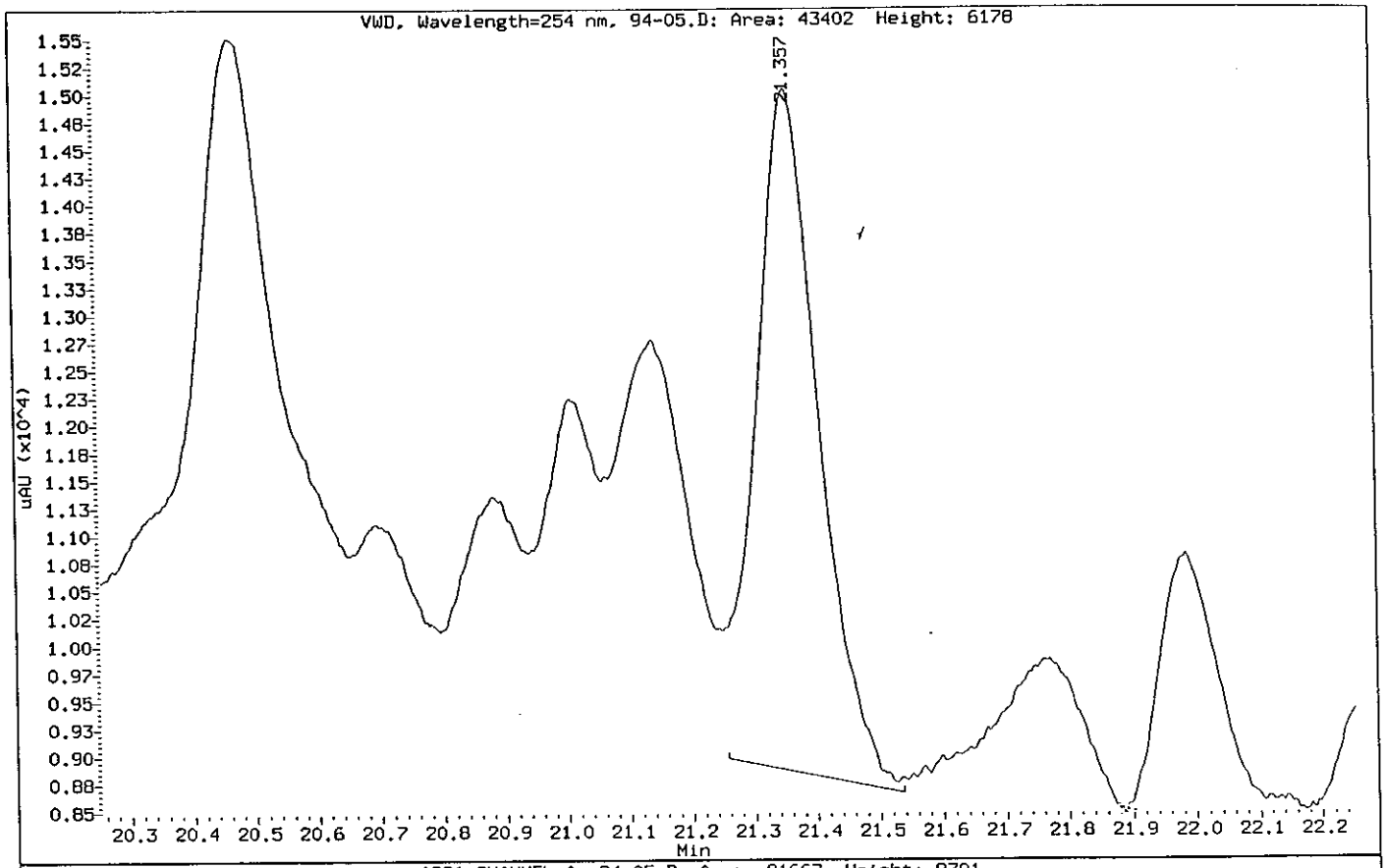
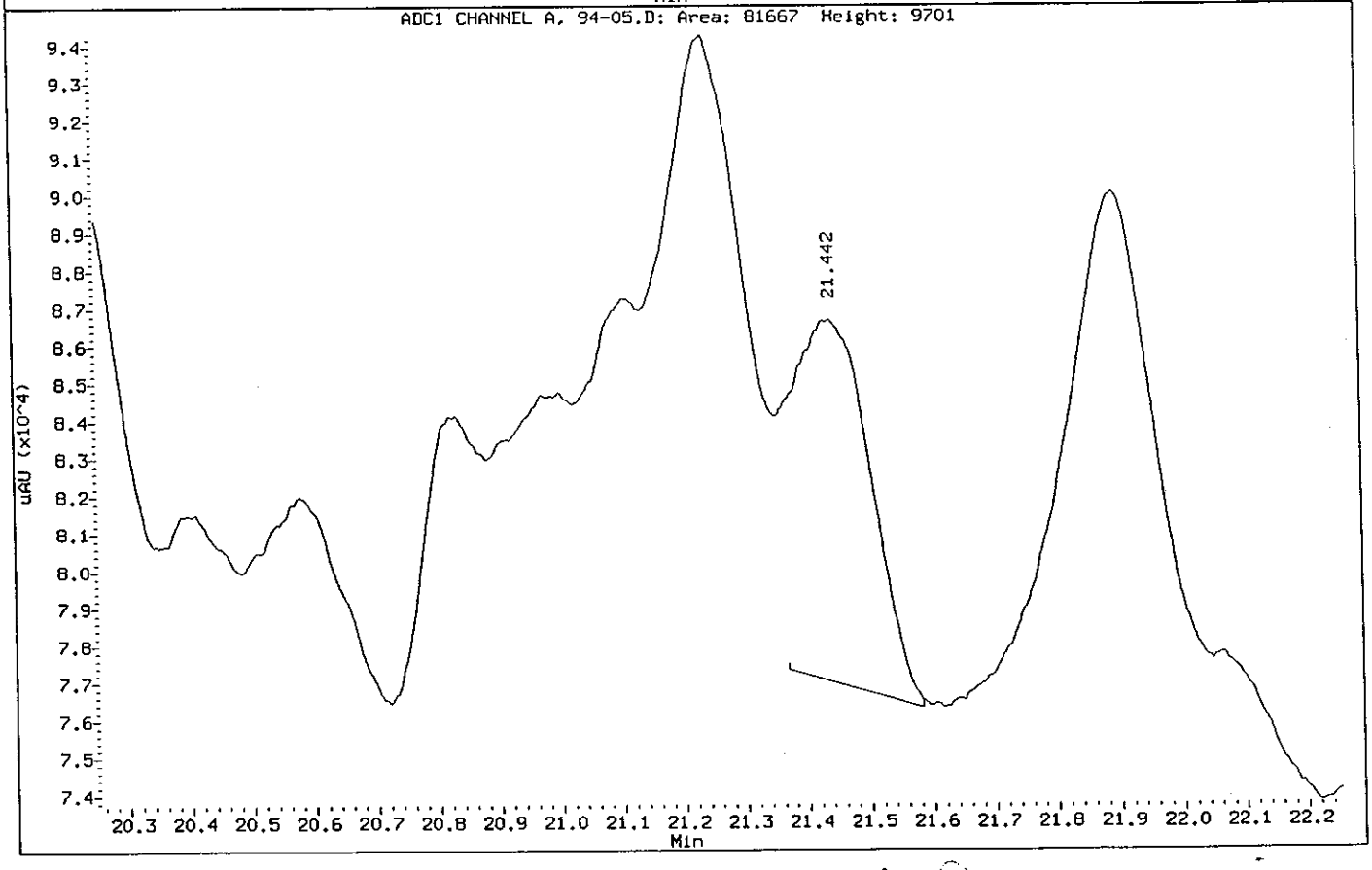
Injection Date: 29-OCT-2001 06:02
Instrument: slc02.i
Client Sample ID: 062B96S101801

Compound: Benzo(b)Fluoranthene
CAS Number: 205-99-2





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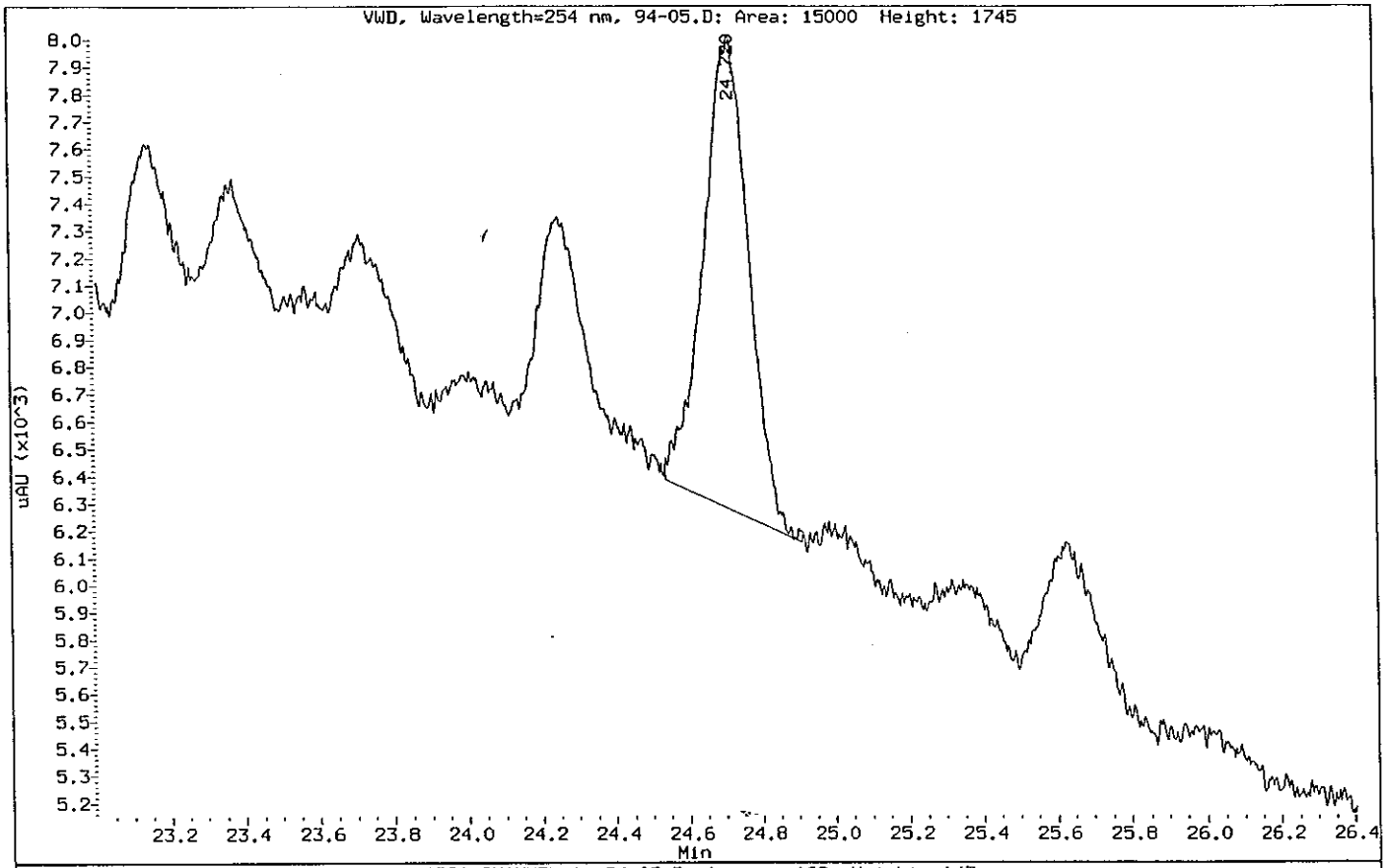
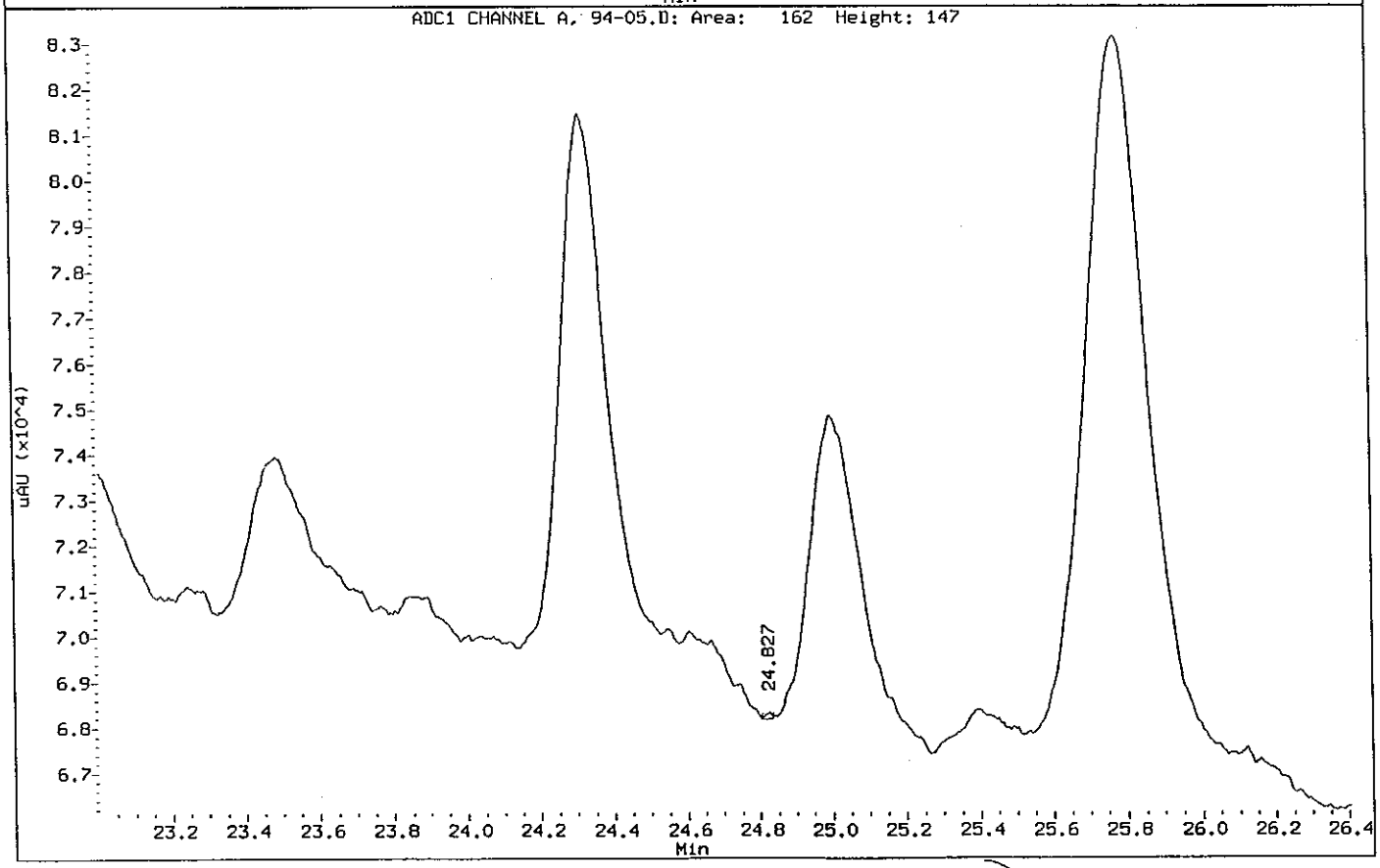
Injection Date: 29-OCT-2001 06:02
Instrument: slc02.i
Client Sample ID: 062B96S101B01

Compound: Indeno(123cd)Pyrene
CAS Number: 193-39-5





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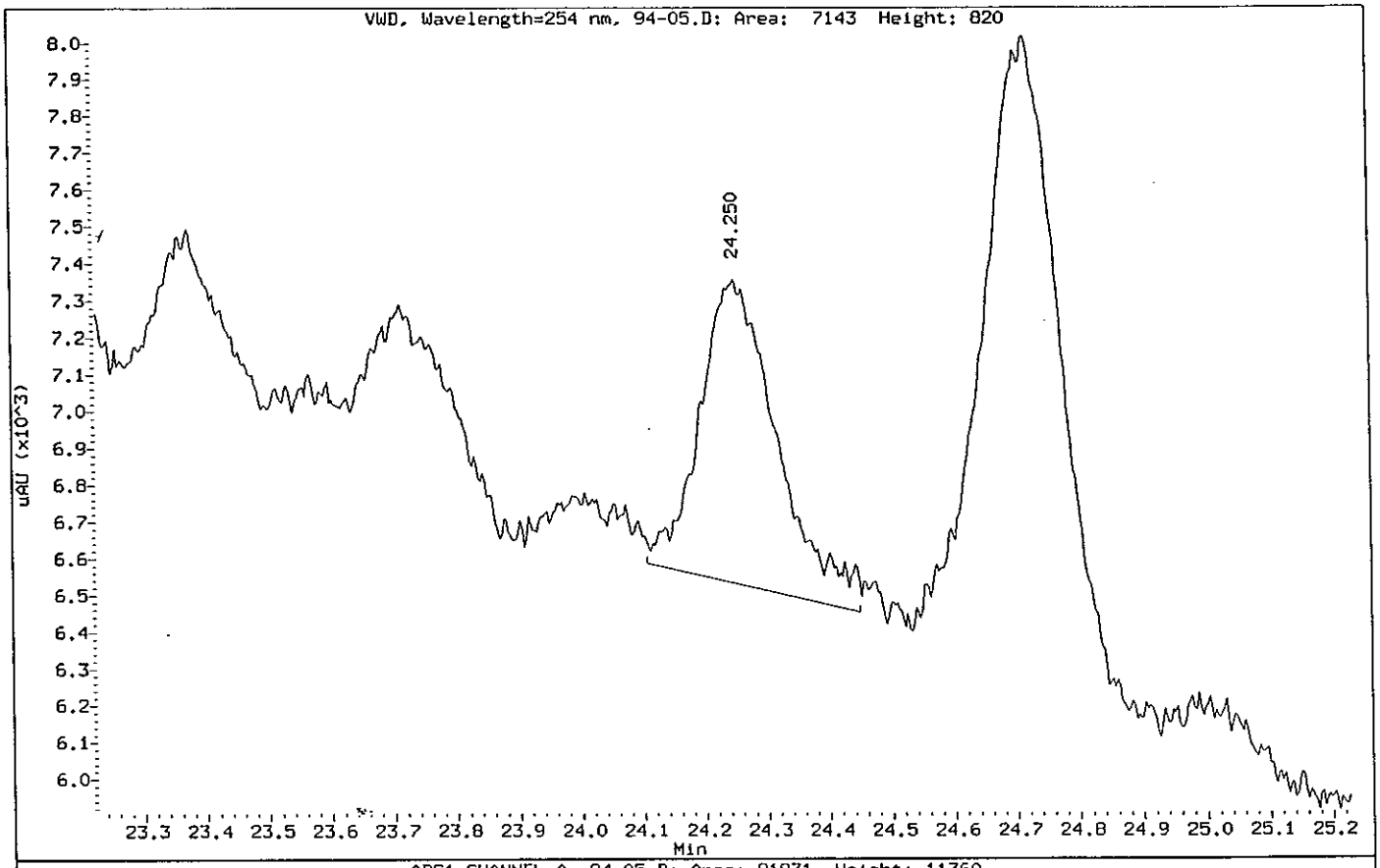
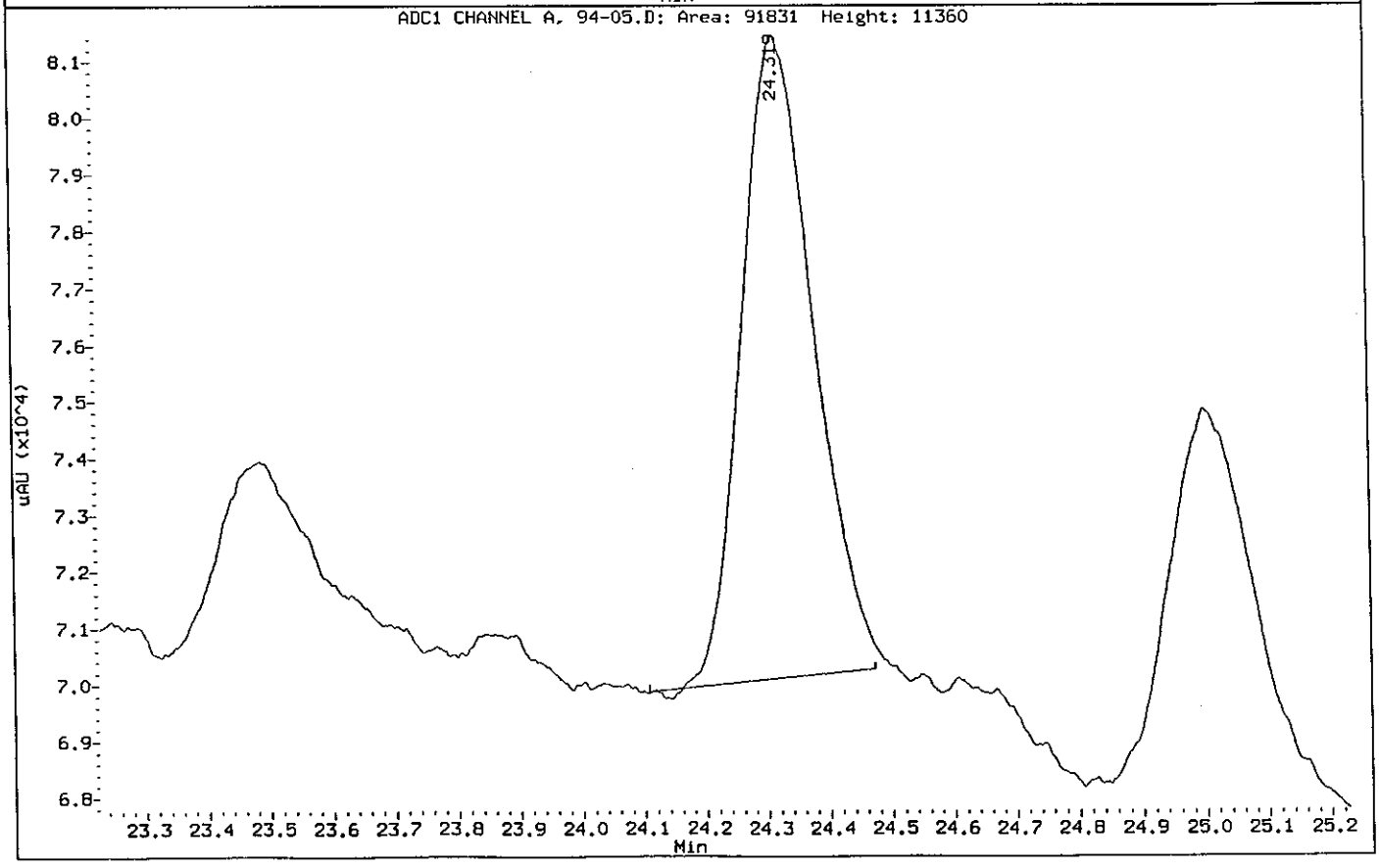
Injection Date: 29-OCT-2001 06:02
Instrument: slc02.i
Client Sample ID: 062B965101801

Compound: Benzo(ghi)Perylene
CAS Number: 191-24-2





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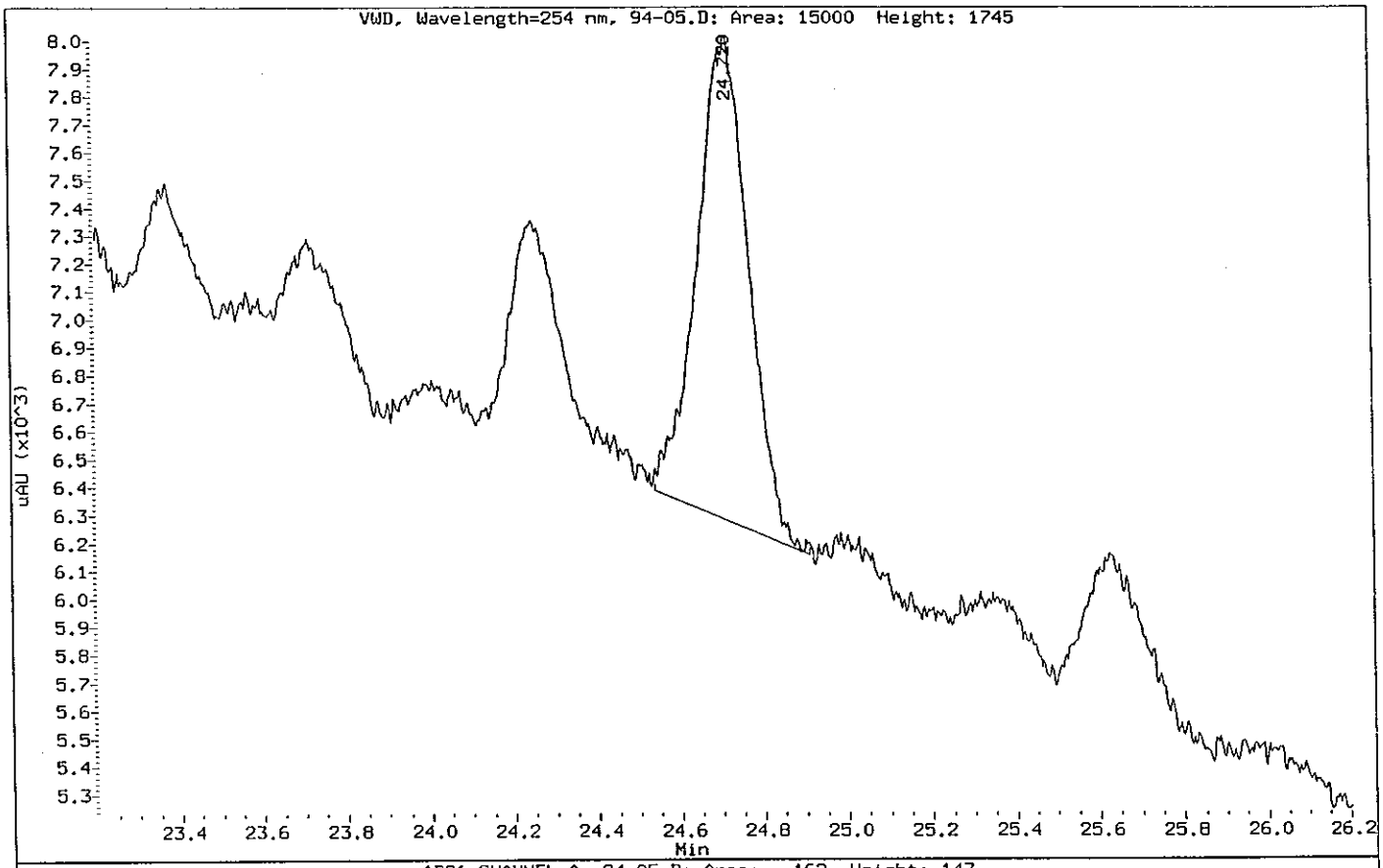
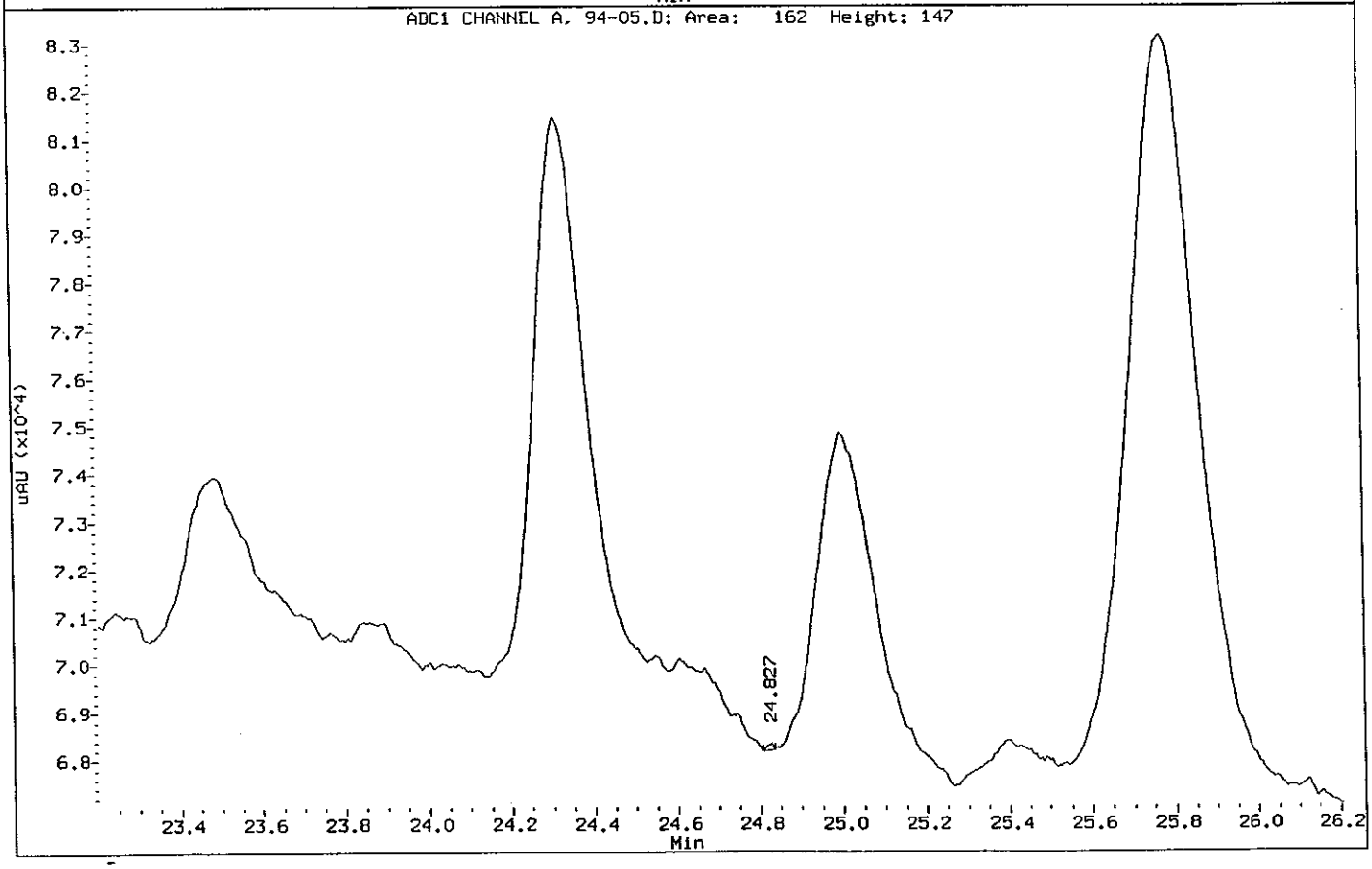
Injection Date: 29-OCT-2001 06:02
Instrument: slc02.i
Client Sample ID: 062B96S101801

Compound: Indeno(123cd)Pyrene
CAS Number: 193-39-5





PEL Laboratories

Data file : \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-06.D
Lab Smp Id: 211009406 Client Smp ID: 062B99S101801
Inj Date : 29-OCT-2001 06:36
Operator : rood Inst ID: slc02.i
Smp Info : 211009406
Misc Info :
Comment :
Method : \\SVHPLC\ee\chem\slc02.i\L21028R1.b\8310S.m
Meth Date : 02-Nov-2001 08:36 jdonnelly Quant Type: ISTD
Cal Date : 28-OCT-2001 20:26 Cal File: PT2UGML.D
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: navy50.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	32.600	Extracted weight
M	14.692	% Moisture
Vf	1.000	Final Volume

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	REL RT	SIGNAL	RESPONSE	(ug/ml)	(ug/kg)	TARGET RANGE	RATIO
* 1 Carbazole (ISTD)						CAS #: 86-74-8		
11.296	10.610	(1.000)	VWD1A	291961			80.00- 120.00	100.00
11.384	10.610	(1.000)	ADC1A	2070360	10.0000		652.03- 978.05	709.12
8 Phenanthrene						CAS #: 85-01-8		
15.796	15.500	(1.398)	VWD1A	48860	0.66909	24.0	80.00- 120.00	100.00(aM)
15.897	15.500	(1.407)	ADC1A	34368	0.49593	17.8	78.58- 117.87	70.34
10 Fluoranthene						CAS #: 206-44-0		
17.330	17.066	(1.534)	VWD1A	22574	1.29310	46.5	80.00- 120.00	100.00(aM)
17.439	17.066	(1.544)	ADC1A	38554			6.36- 9.54	170.79
11 Pyrene						CAS #: 129-00-0		
17.840	17.606	(1.579)	VWD1A	5593	0.41744	15.0	80.00- 120.00	100.00(aM)

RT	EXP RT	REL RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	CONCENTRATIONS FINAL (ug/kg)	TARGET RANGE	RATIO
11 Pyrene (continued)								
17.934	17.606	(1.588)	ADC1A	158561	0.88593	31.8	930.64-1395.96	2834.99
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.770	18.593	(1.662)	VWD1A	231244	14.8984	536	80.00- 120.00	100.00(M)
18.864	18.593	(1.670)	ADC1A	6801828	16.0104	576	2246.35-3369.53	2941.41
13 Benzo(a)Anthracene						CAS #: 56-55-3		
19.590	19.426	(1.734)	VWD1A	30292	0.73966	26.6	80.00- 120.00	100.00(aM)
19.684	19.426	(1.743)	ADC1A	263446	0.59853	21.5	881.58-1322.37	869.69
14 Chrysene						CAS #: 218-01-9		
19.963	19.820	(1.767)	VWD1A	65357	1.11698	40.2	80.00- 120.00	100.00(aM)
20.067	19.820	(1.776)	ADC1A	50989	0.36590	13.2	190.14- 285.21	78.02
15 Benzo(b)Fluoranthene						CAS #: 205-99-2		
21.356	21.253	(1.891)	VWD1A	50127	1.11033	39.9	80.00- 120.00	100.00(aM)
21.421	21.253	(1.896)	ADC1A	70836	5.99264	215	20.85- 31.28	141.31
16 Benzo(k)Fluoranthene						CAS #: 207-08-9		
21.983	21.883	(1.946)	VWD1A	16198	0.46939	16.9	80.00- 120.00	100.00(a)
22.061	21.883	(1.953)	ADC1A	16767	0.74325	26.7	52.76- 79.15	103.51
17 Benzo(a)pyrene						CAS #: 50-32-8		
22.560	22.476	(1.997)	VWD1A	35971	0.89400	32.1	80.00- 120.00	100.00(aM)
22.682	22.476	(2.008)	ADC1A	111908	1.66486	59.9	138.13- 207.19	311.11
19 Benzo(ghi)Perylene						CAS #: 191-24-2		
24.266	24.226	(2.148)	VWD1A	12174	0.79998	28.8	80.00- 120.00	100.00(aM)
24.337	24.226	(2.154)	ADC1A	103729	3.36533	121	155.32- 232.98	852.05
20 Indeno(123cd)Pyrene						CAS #: 193-39-5		
24.740	24.703	(2.190)	VWD1A	25637	0.66821	24.0	80.00- 120.00	100.00(aMH)
24.881	24.703	(2.203)	ADC1A	1449			0.00- 0.00	5.65

QC Flag Legend

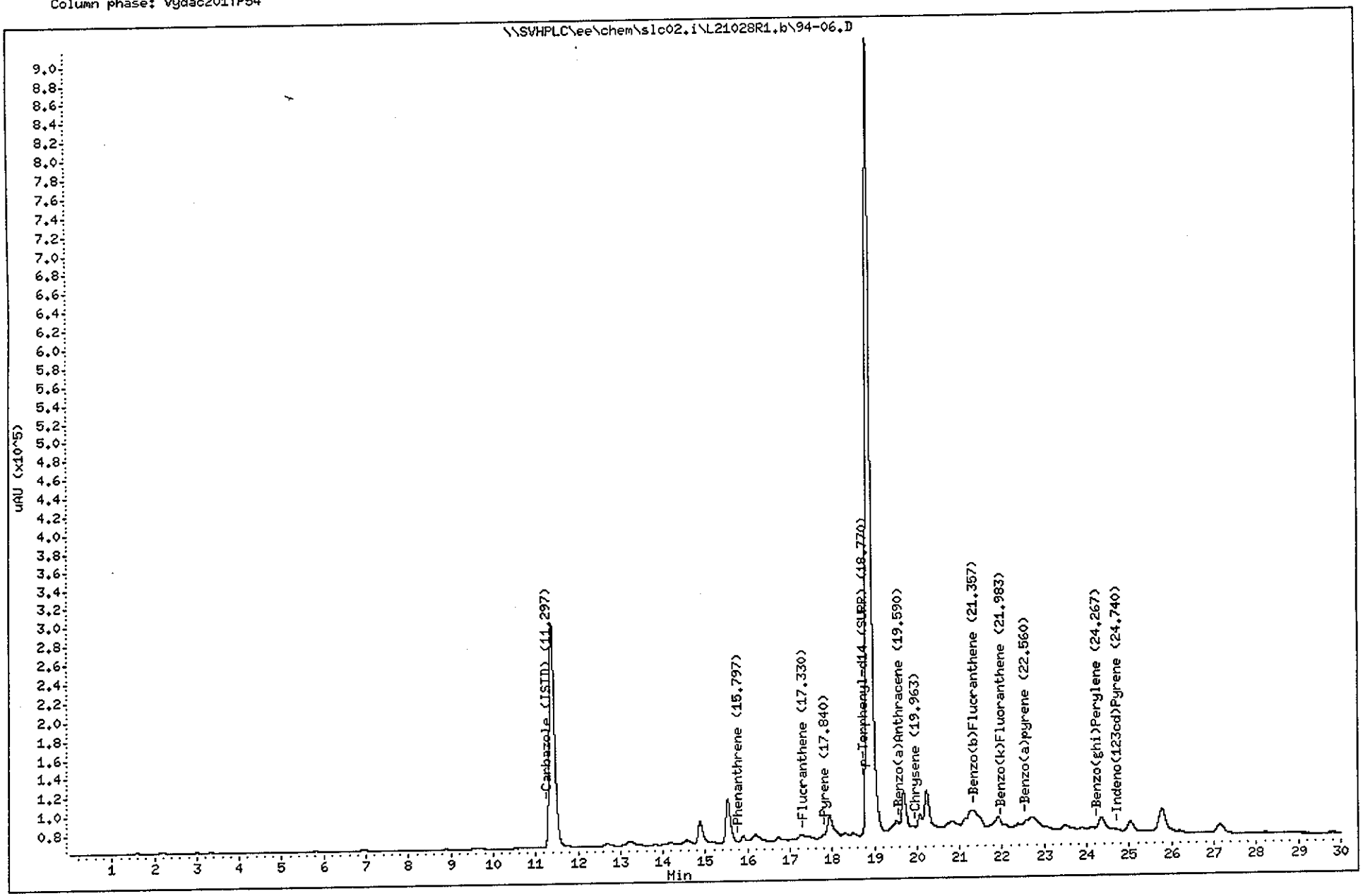
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-06.D
Date : 29-OCT-2001 06:36
Client ID: 062B99S101801
Sample Info: 211009406

Column phase: Vydac201TP54

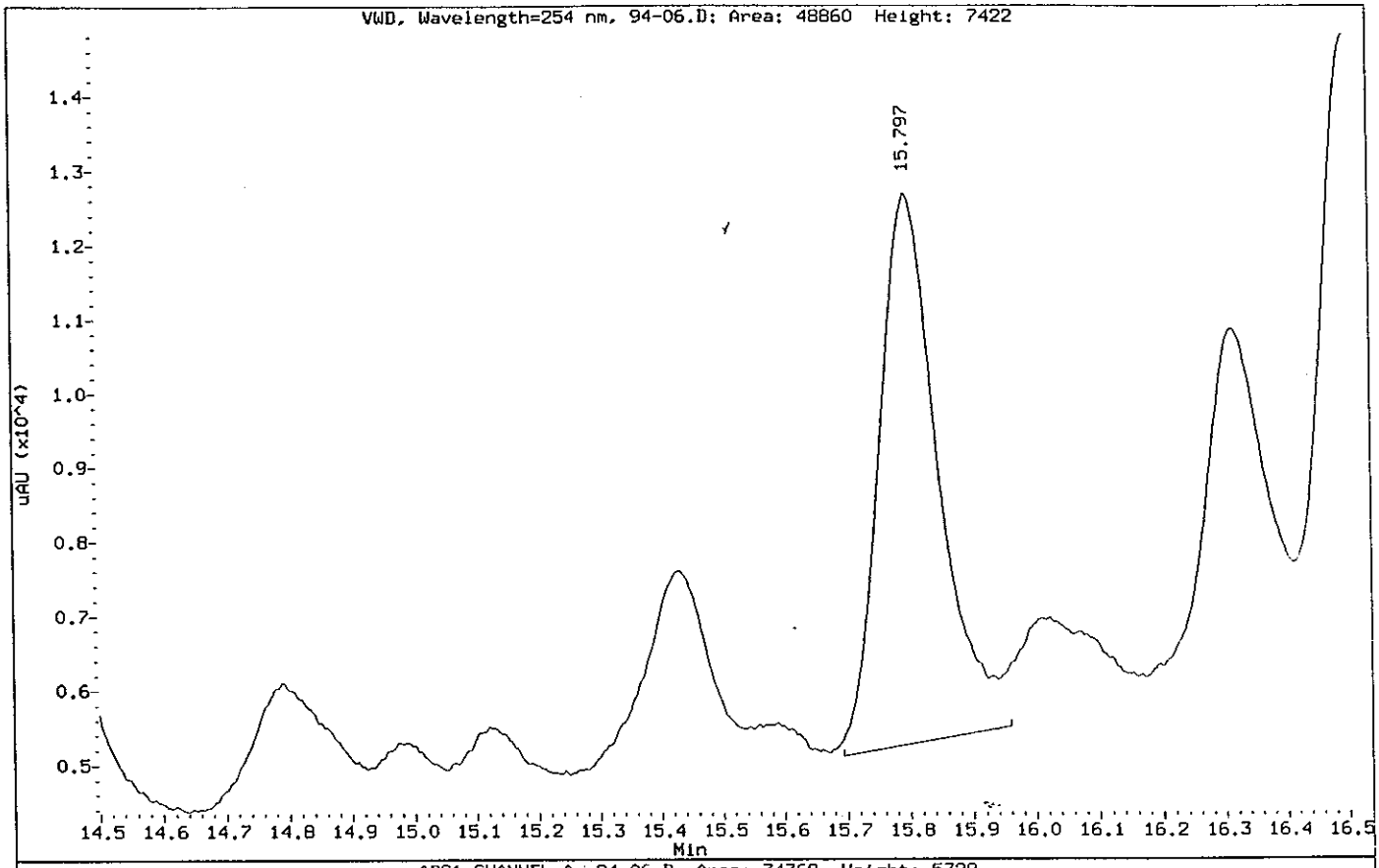
Instrument: slc02.i

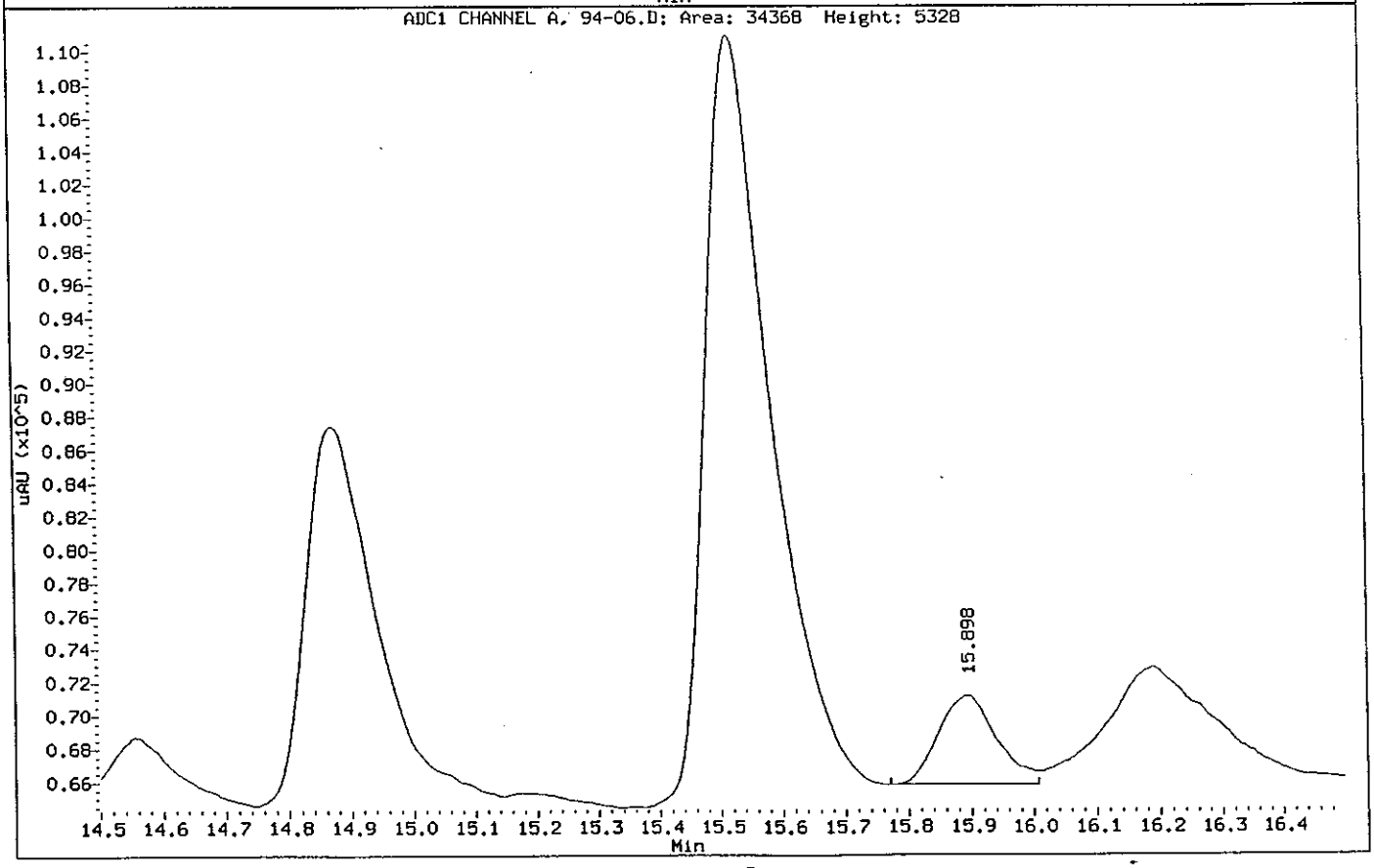
Operator: rood
Column diameter: 4.60



Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-06.D
Injection Date: 29-OCT-2001 06:36
Instrument: slc02.i
Client Sample ID: 062B99S101801

Compound: Phenanthrene
CAS Number: 85-01-8





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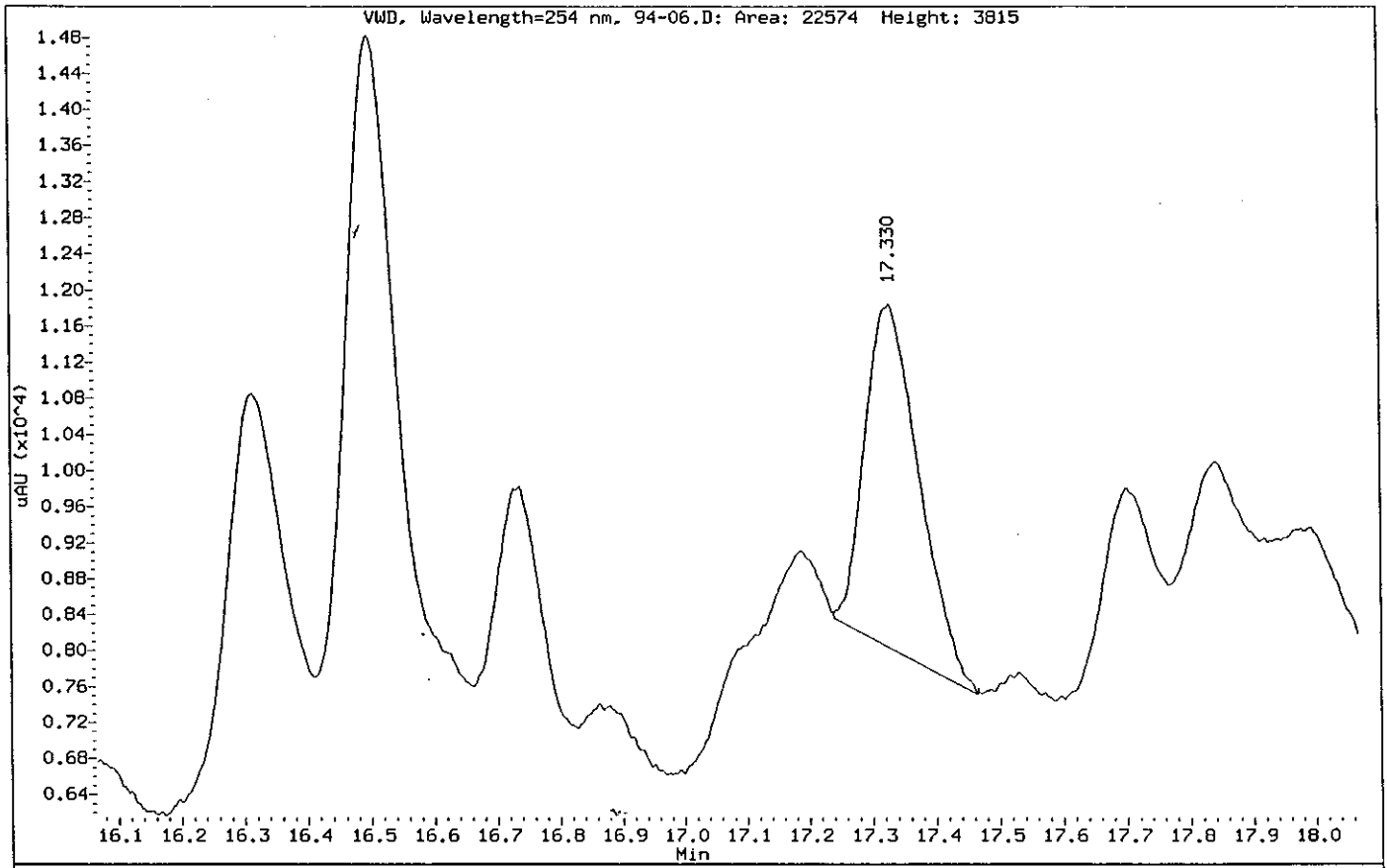
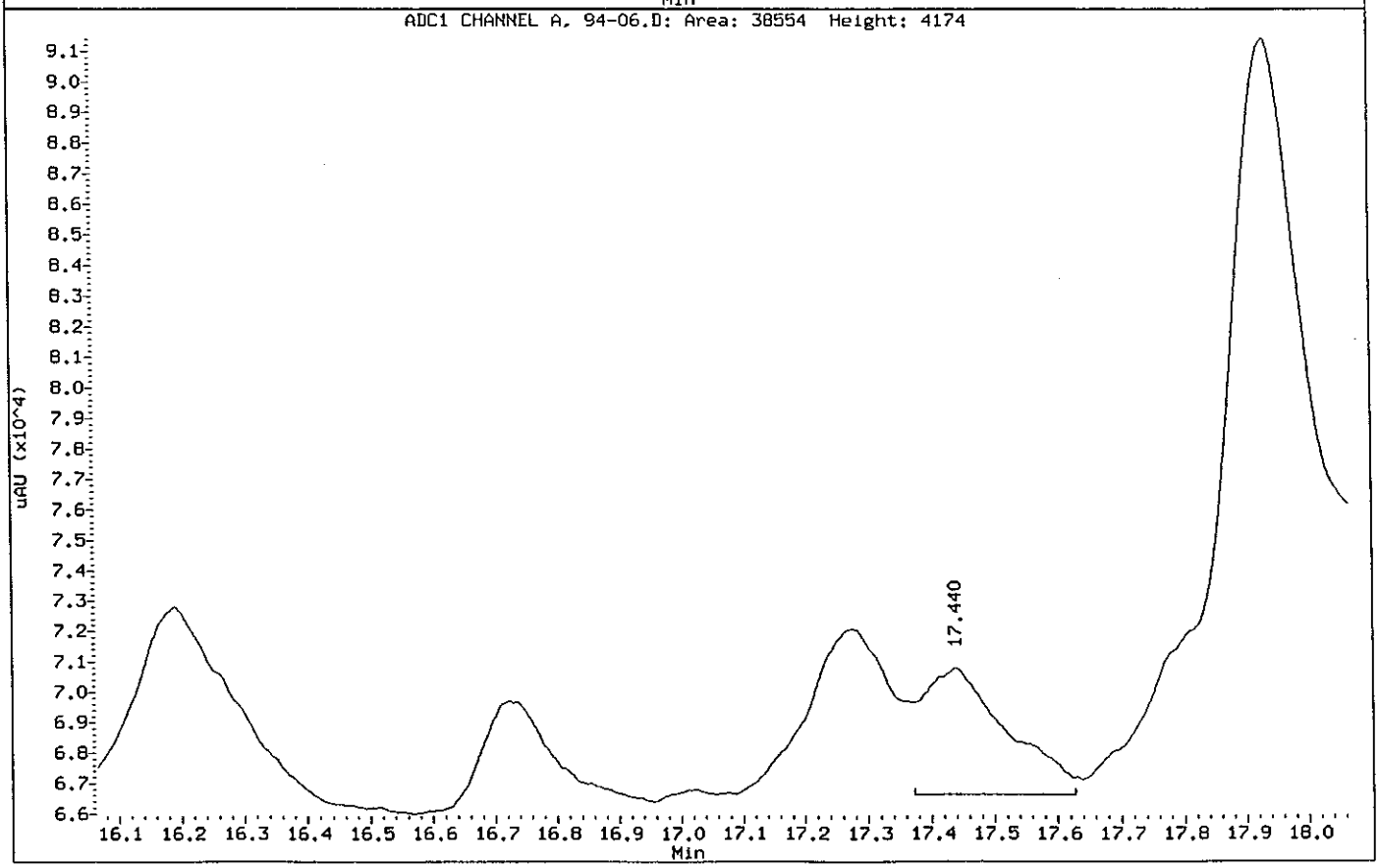
Injection Date: 29-OCT-2001 06:36
Instrument: slc02.i
Client Sample ID: 062B99S101801

Compound: Fluoranthene
CAS Number: 206-44-0





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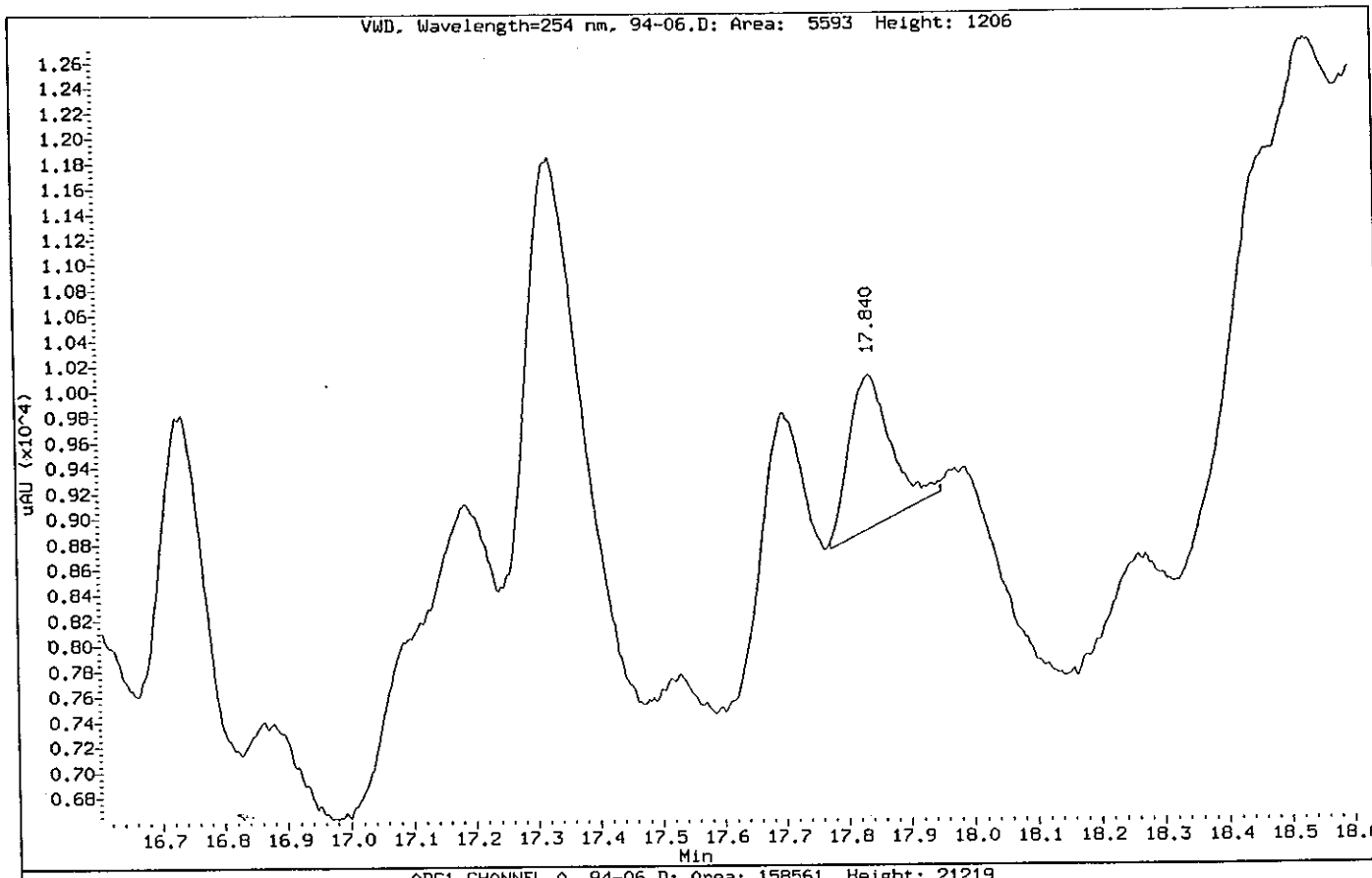
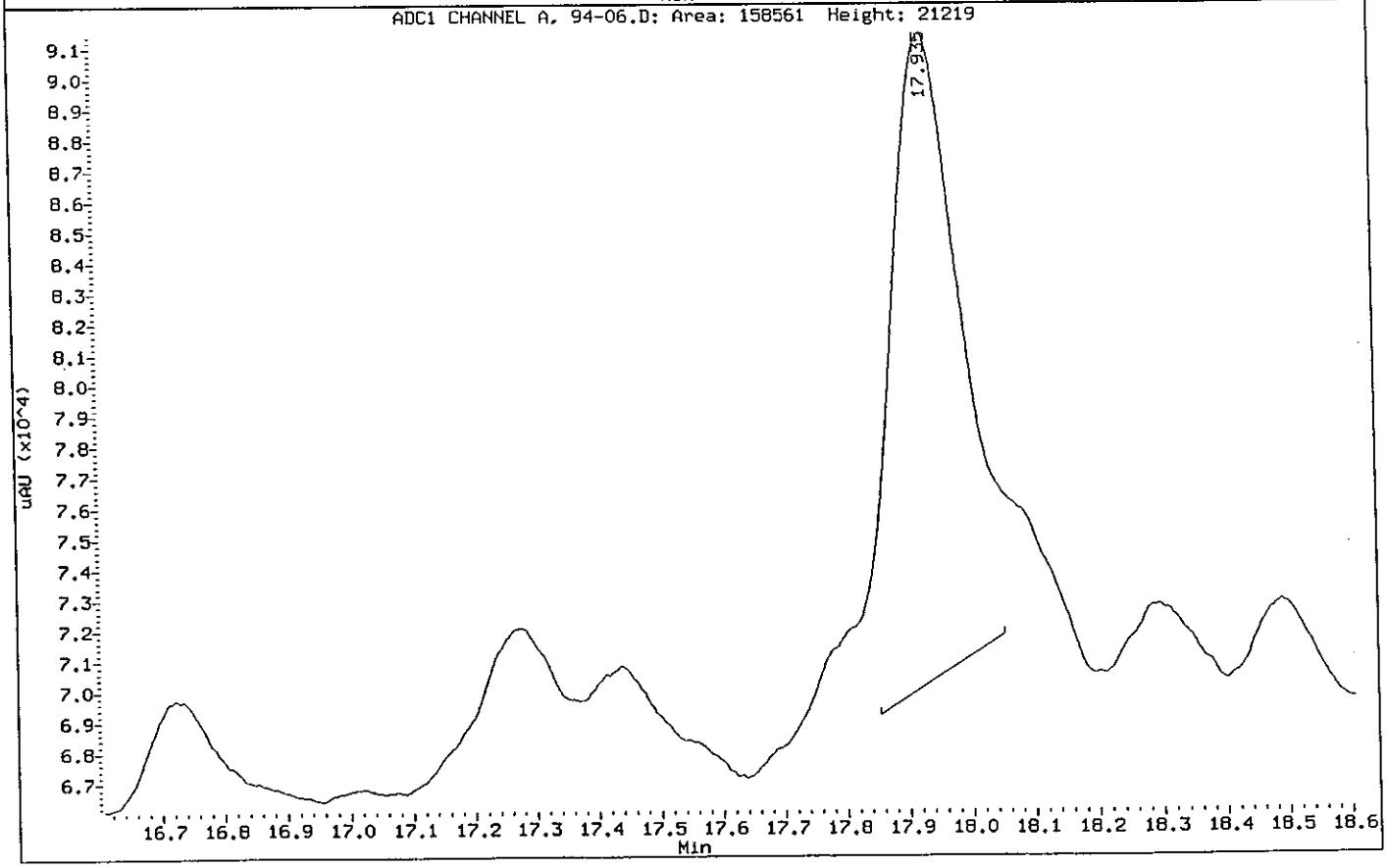
Injection Date: 29-OCT-2001 06:36
Instrument: slc02.i
Client Sample ID: 062B99S101801

Compound: Pyrene
CAS Number: 129-00-0





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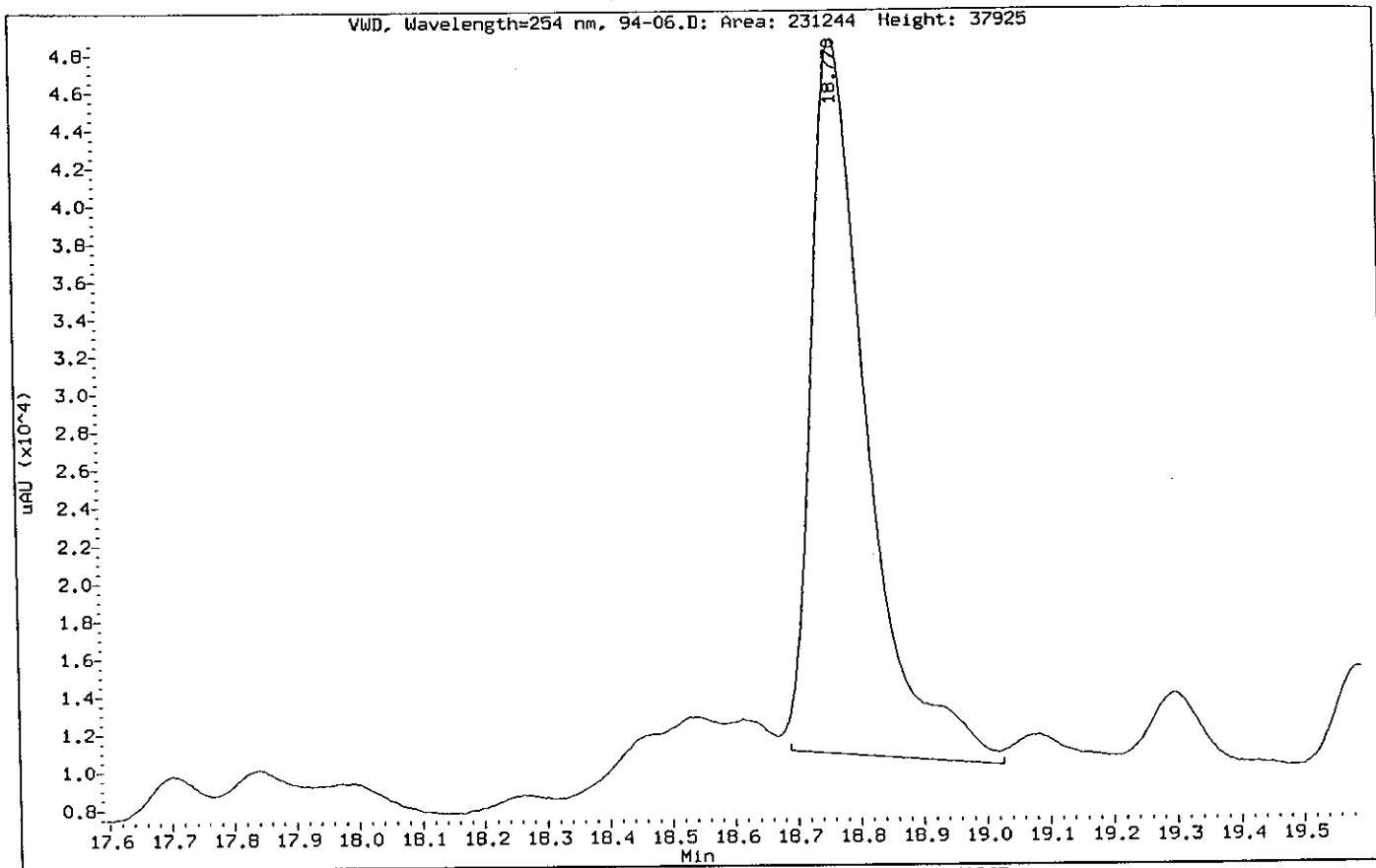
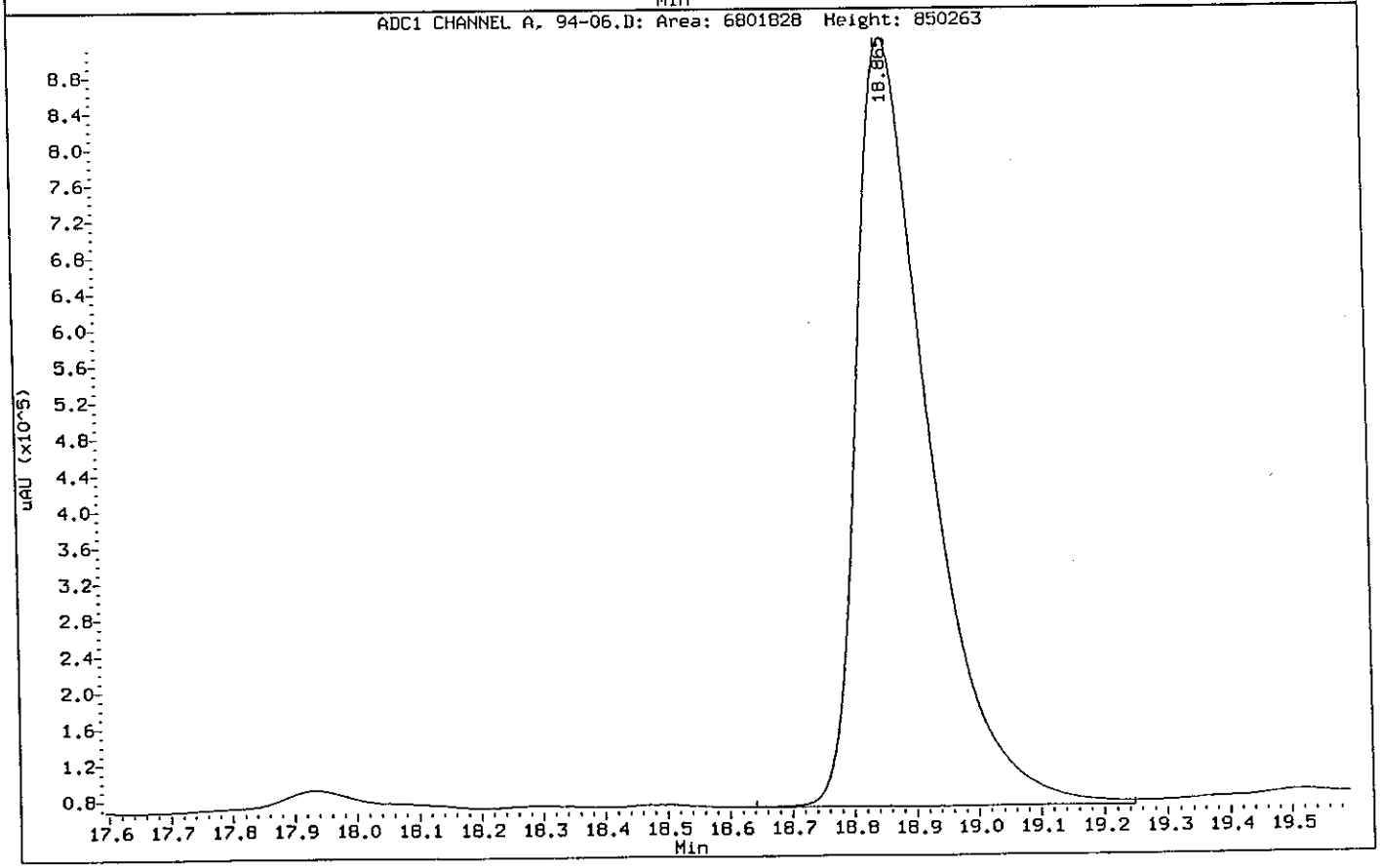
Injection Date: 29-OCT-2001 06:36
Instrument: slc02.i
Client Sample ID: 062B99S101801

Compound: p-Terphenyl-d14 (SURR)
CAS Number: 1718-51-0





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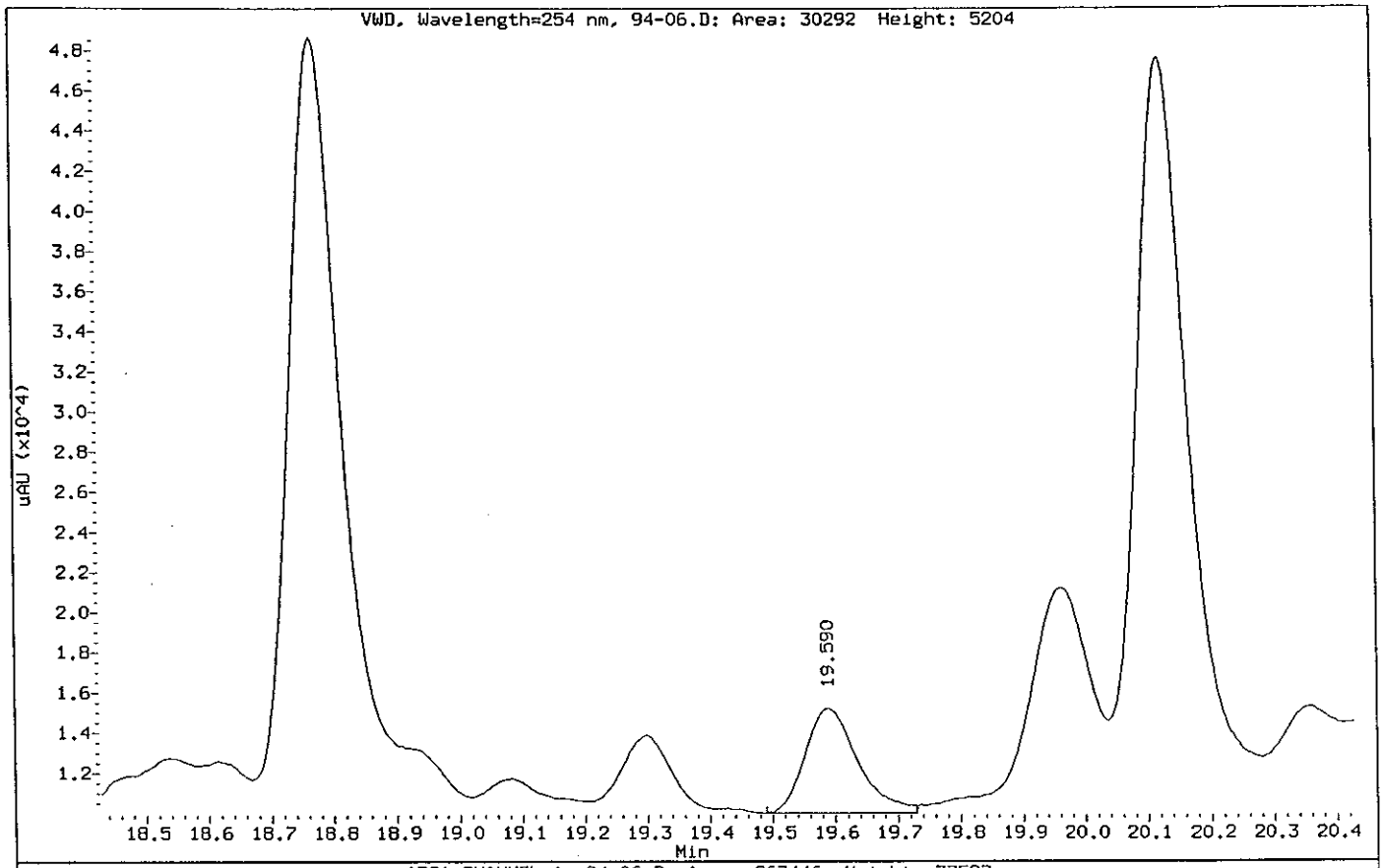
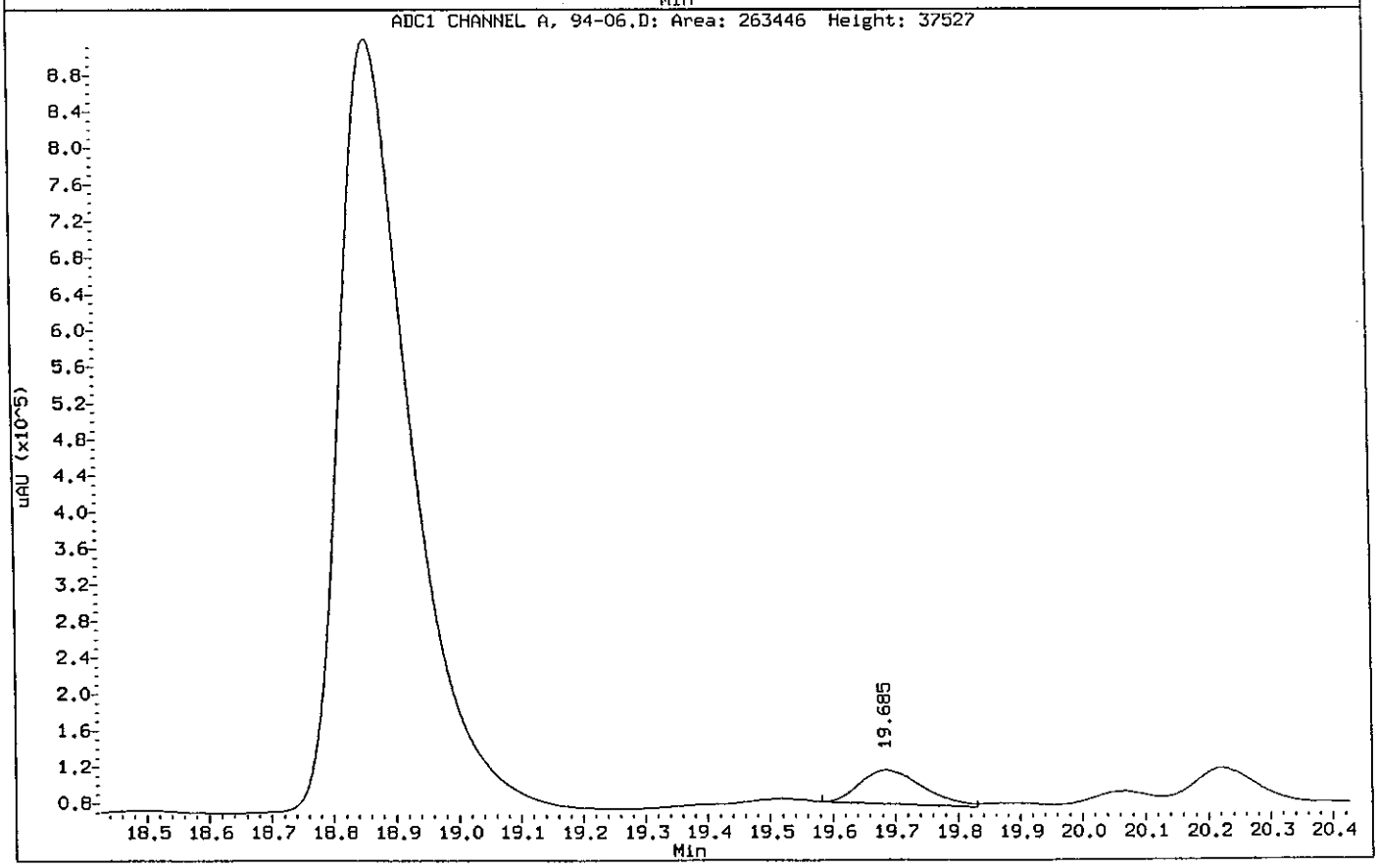
Injection Date: 29-OCT-2001 06:36
Instrument: slc02.i
Client Sample ID: 062B99S101801

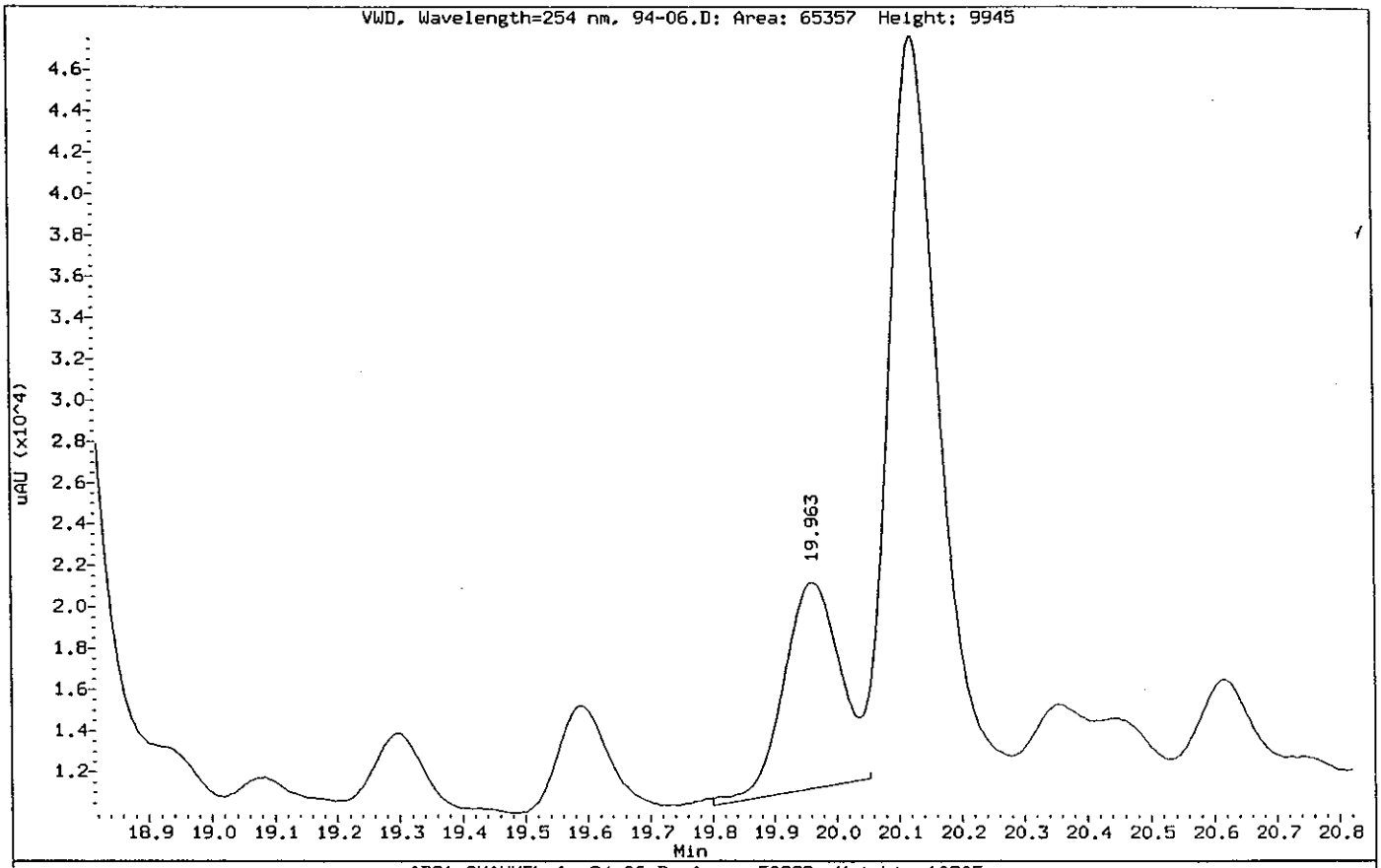
Compound: Benzo(a)Anthracene
CAS Number: 56-55-3

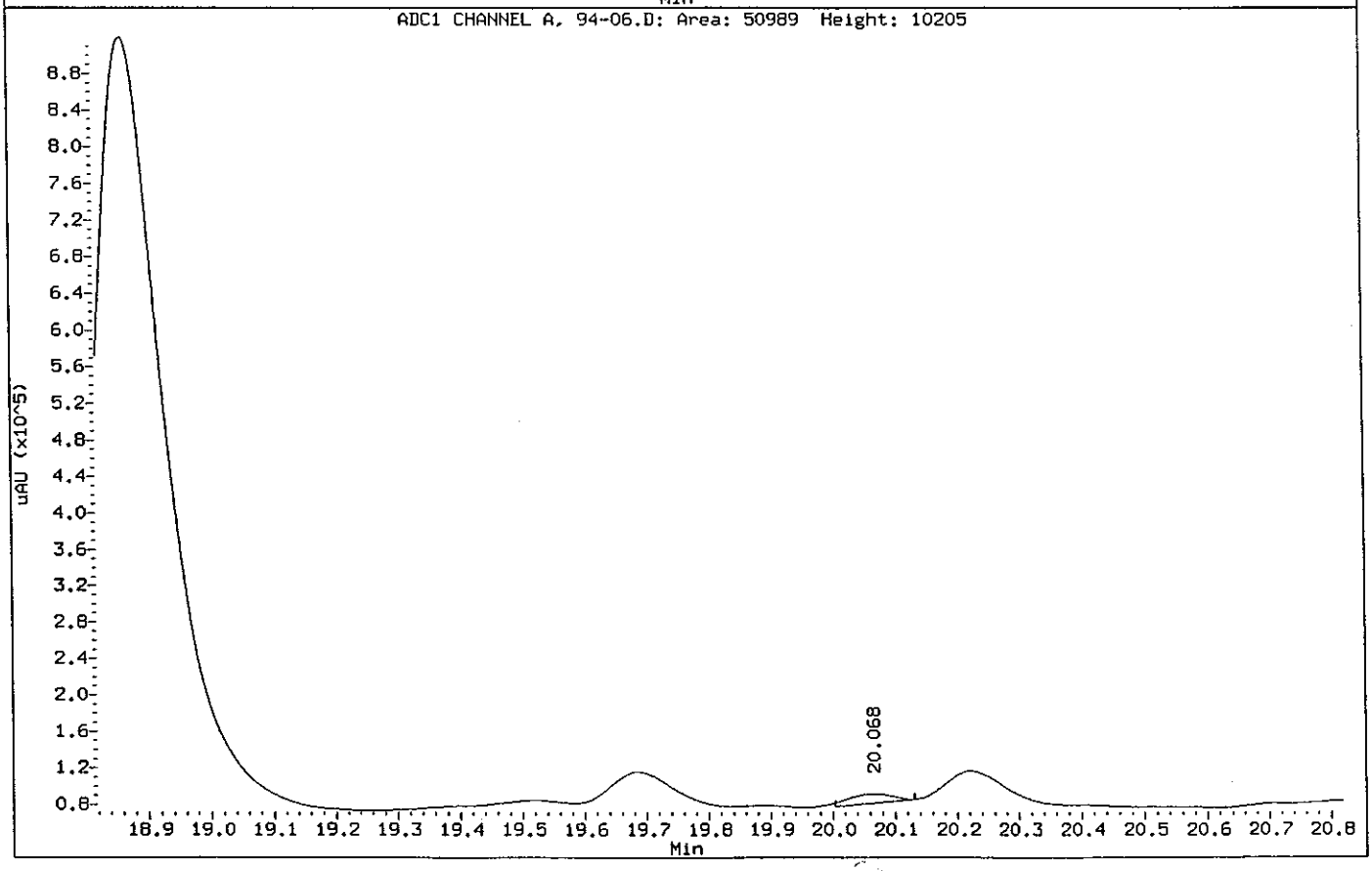




Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-06.D
Injection Date: 29-OCT-2001 06:36
Instrument: slc02.i
Client Sample ID: 062B995101801

Compound: Chrysene
CAS Number: 218-01-9





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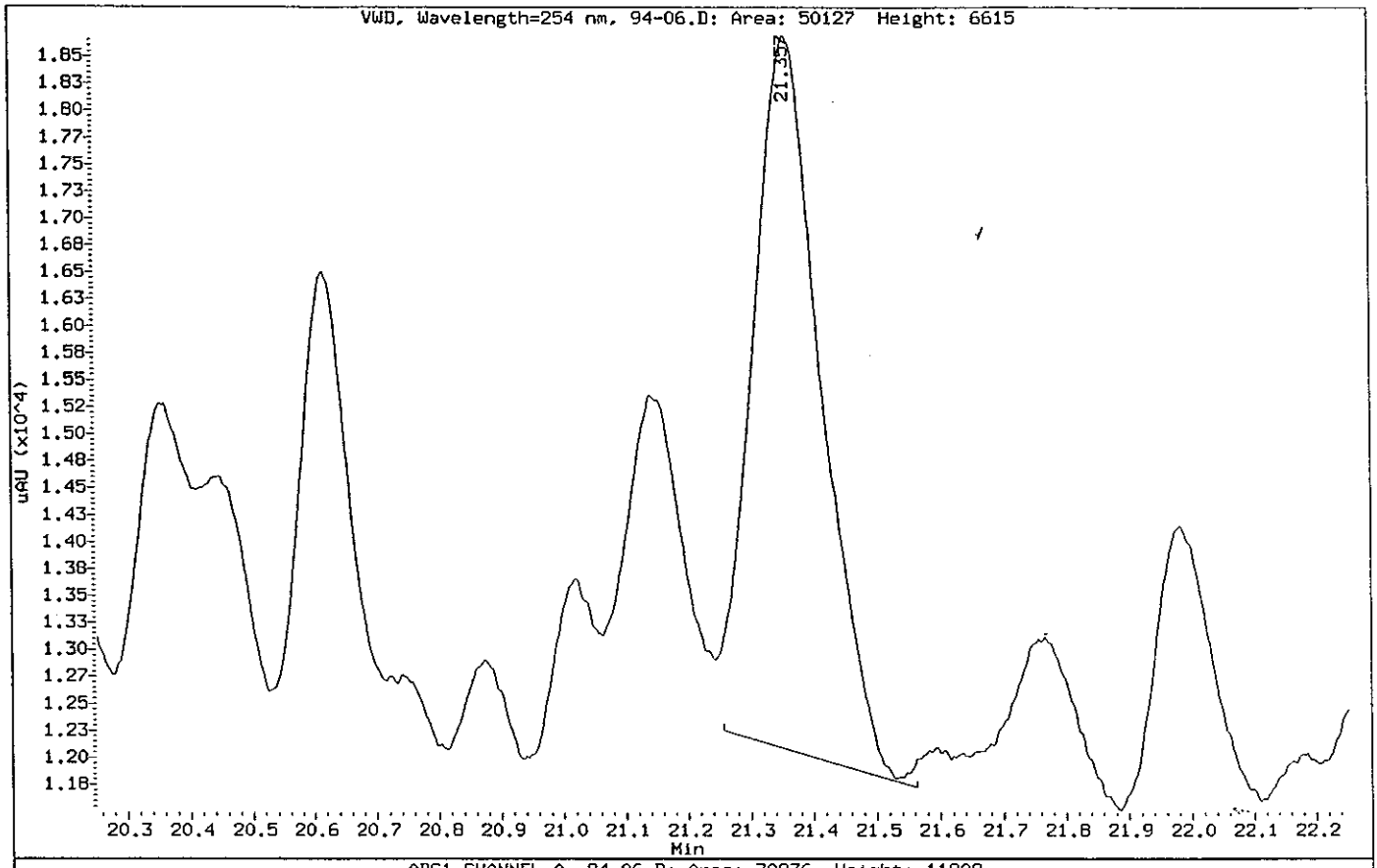
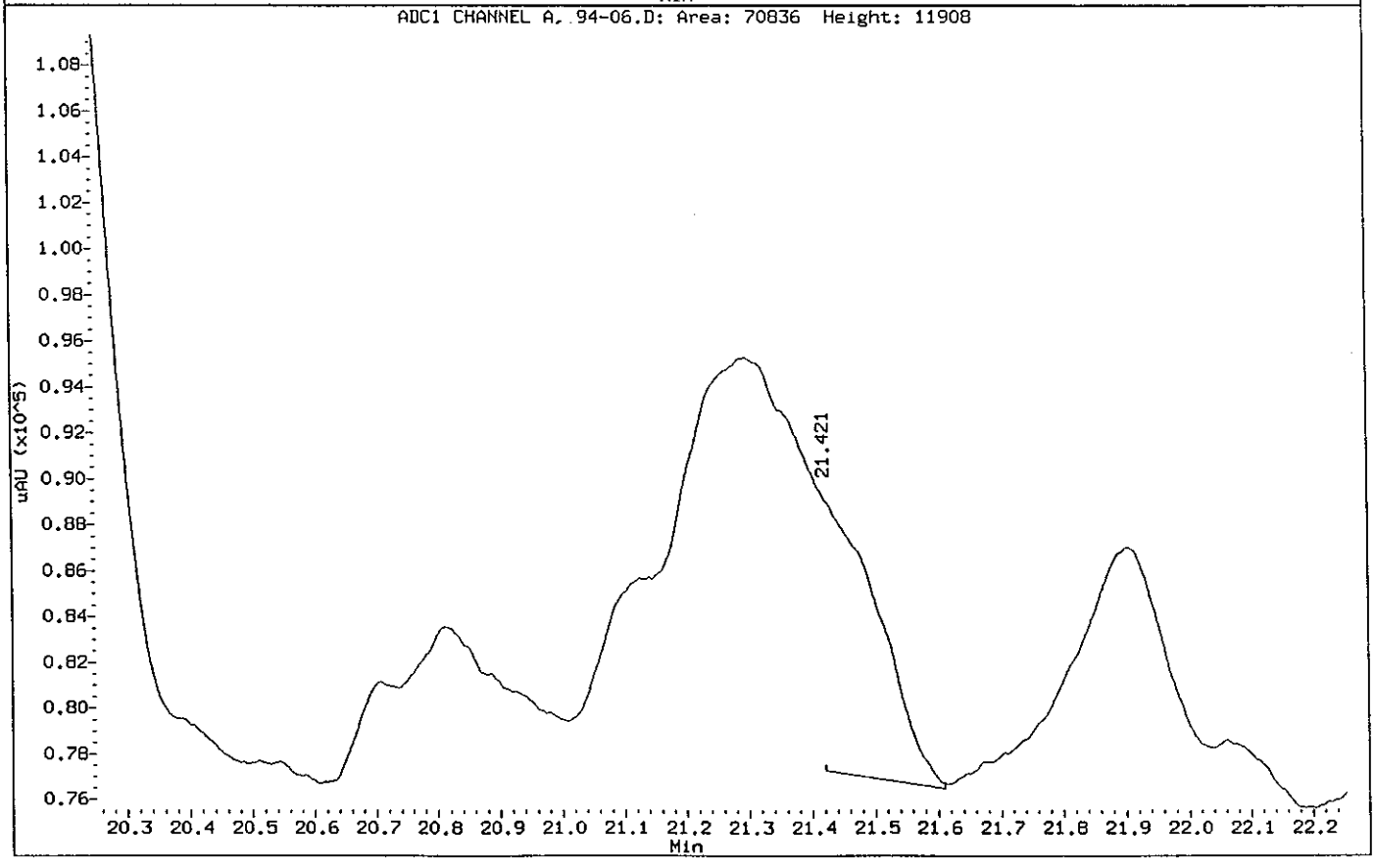
Injection Date: 29-OCT-2001 06:36
Instrument: slc02.i
Client Sample ID: 062B99S101801

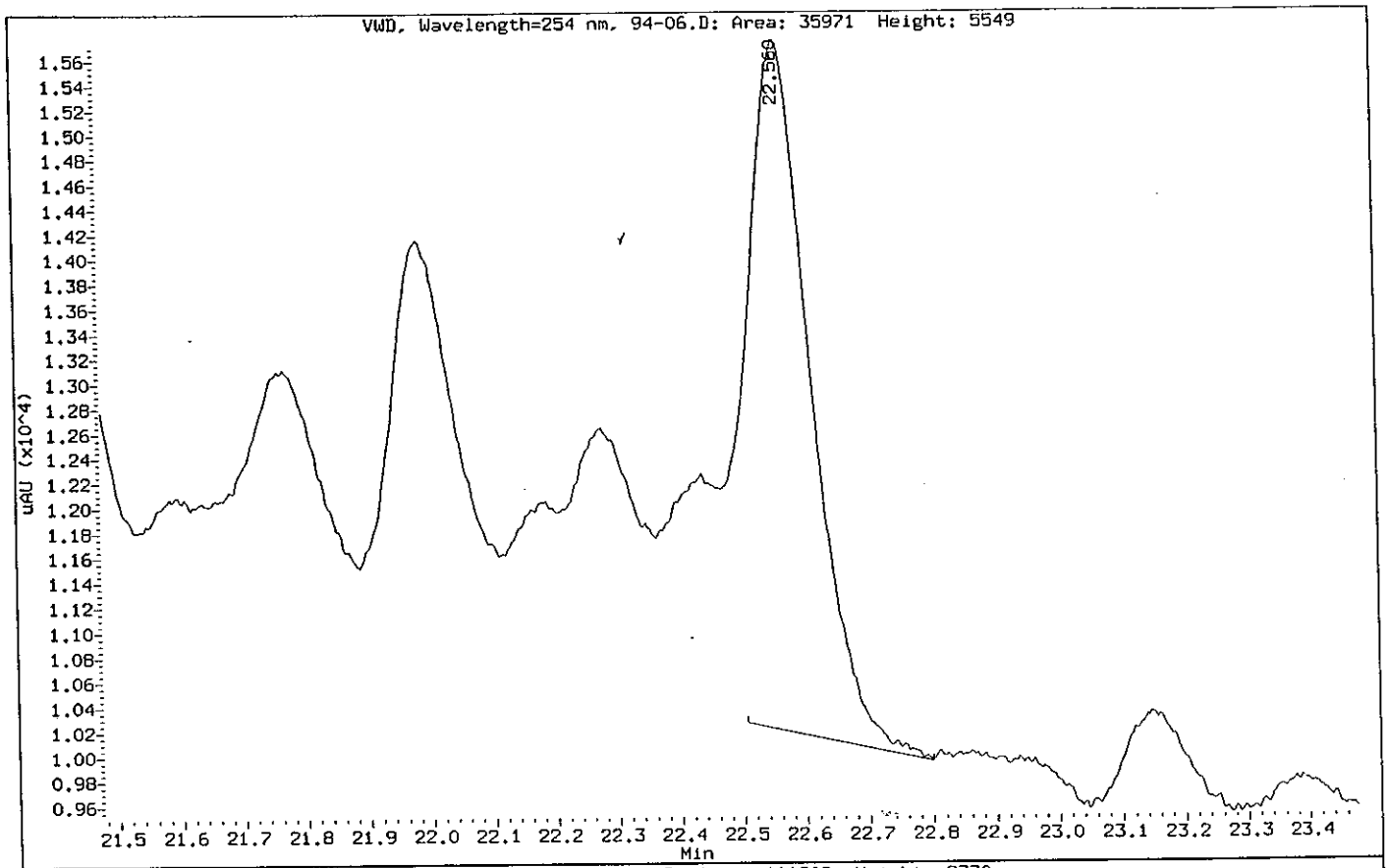
Compound: Benzo(b)Fluoranthene
CAS Number: 205-99-2

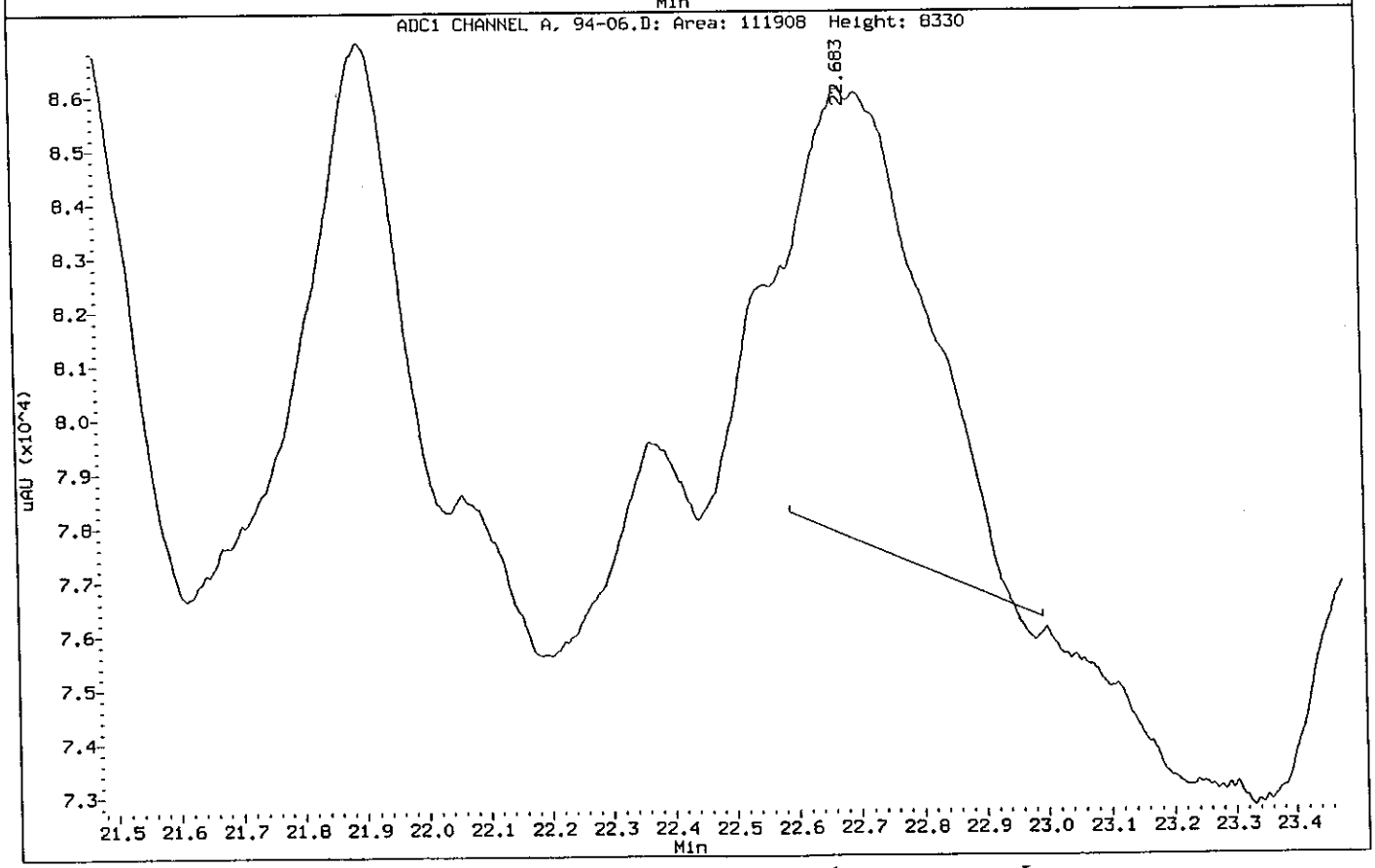




Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-06.D
Injection Date: 29-OCT-2001 06:36
Instrument: slc02.i
Client Sample ID: 062B99S101B01

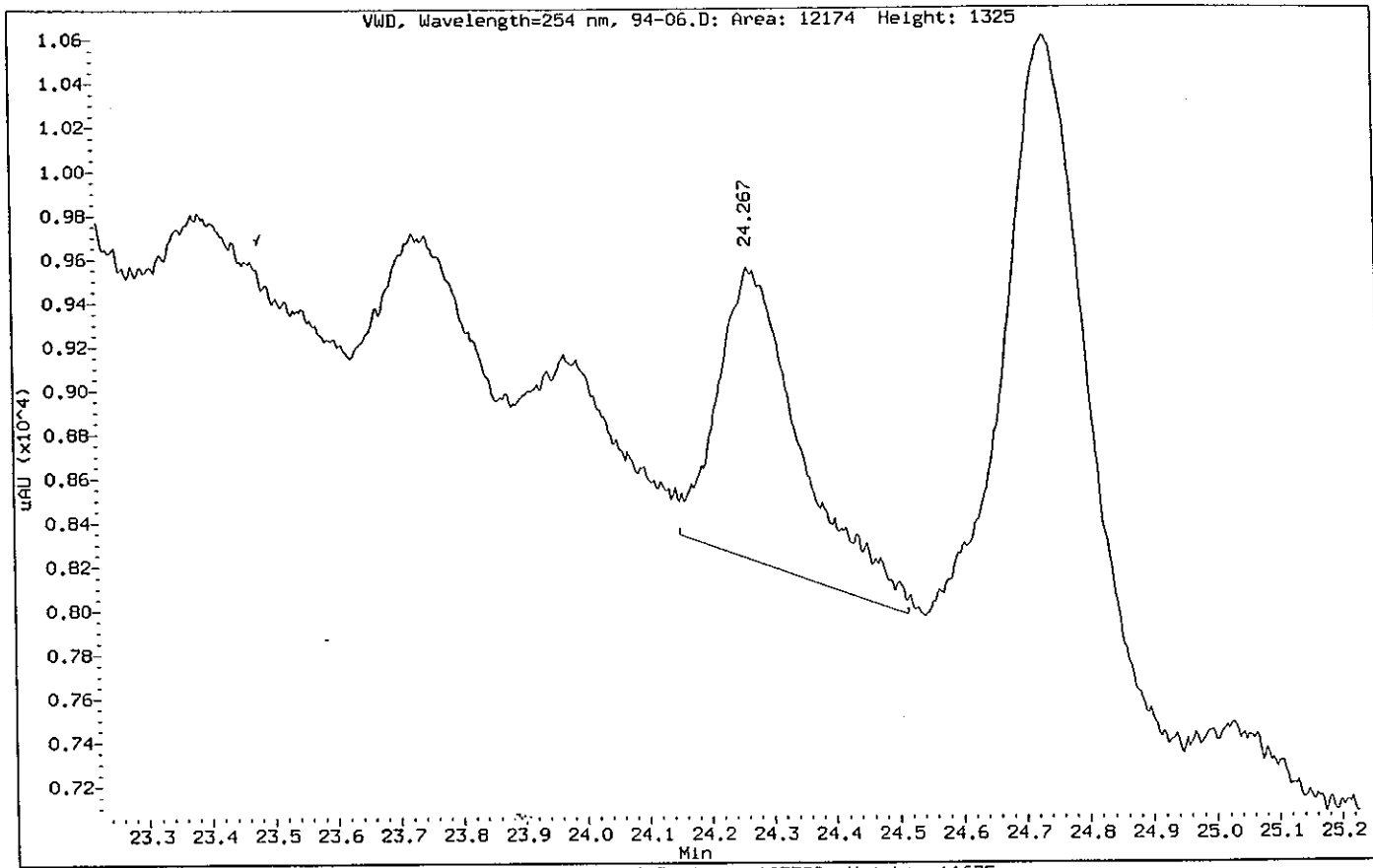
Compound: Benzo(a)pyrene
CAS Number: 50-32-8

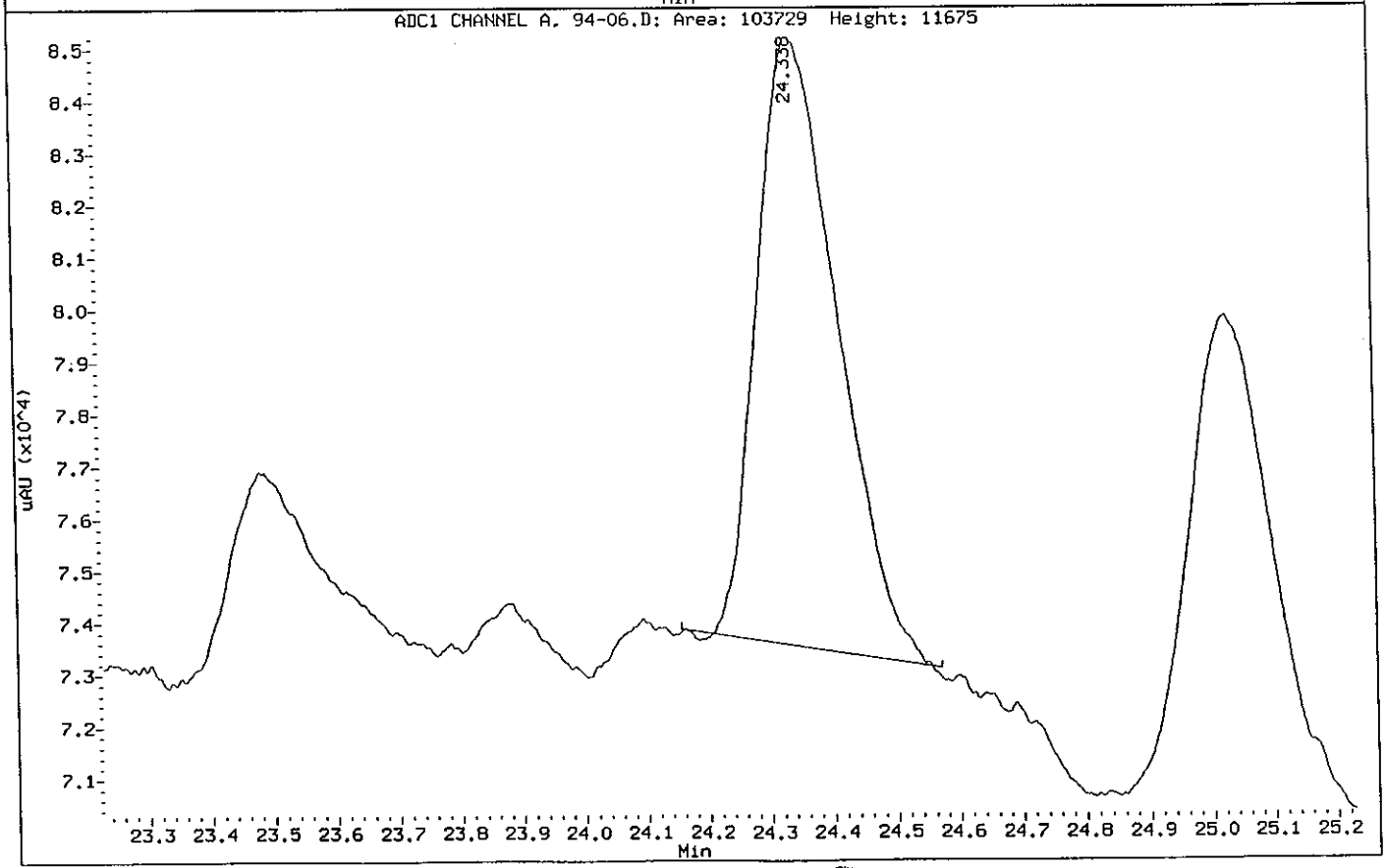




Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-06.D
Injection Date: 29-OCT-2001 06:36
Instrument: slc02.i
Client Sample ID: 062B99S101801

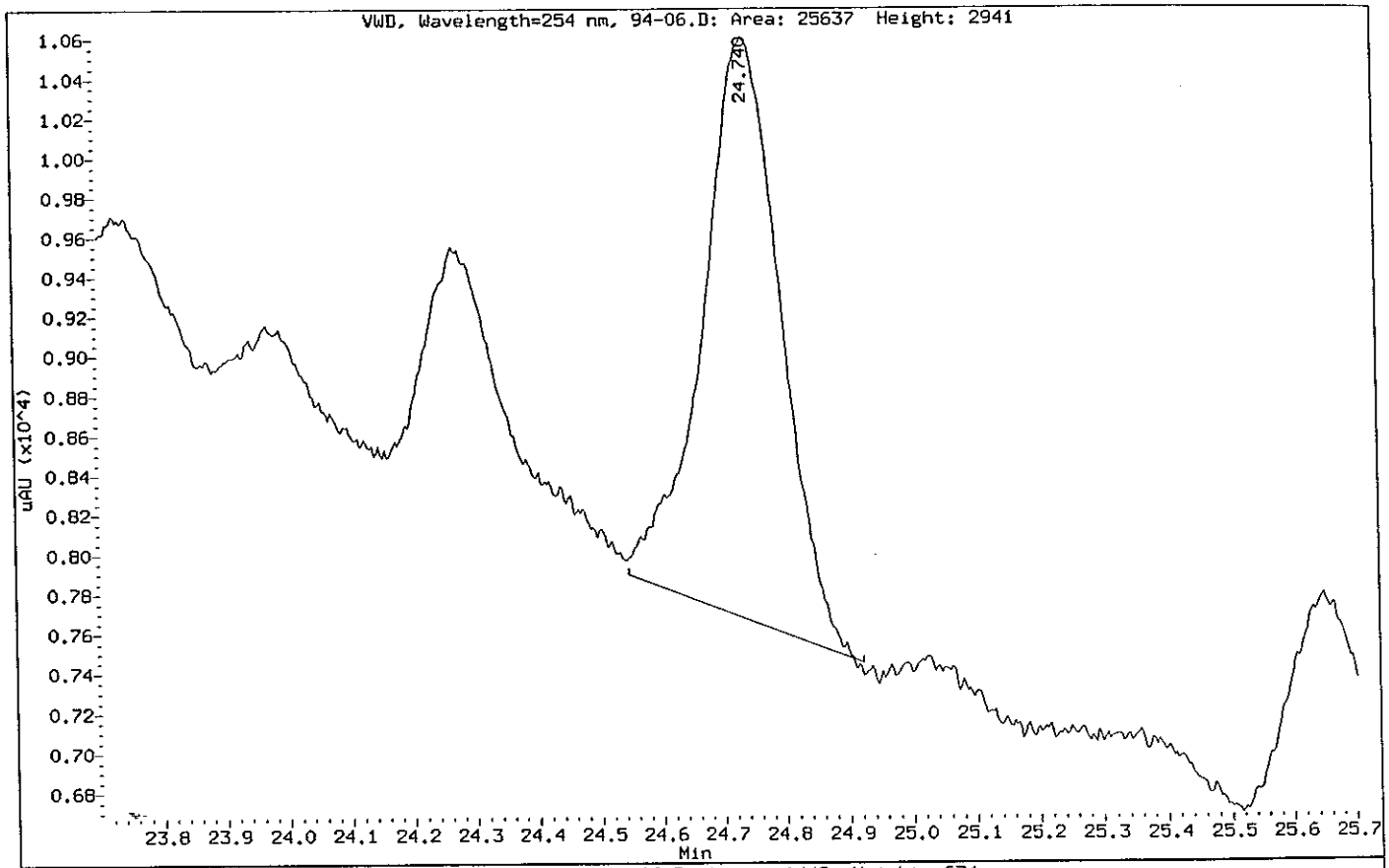
Compound: Benzo(ghi)Perylene
CAS Number: 191-24-2

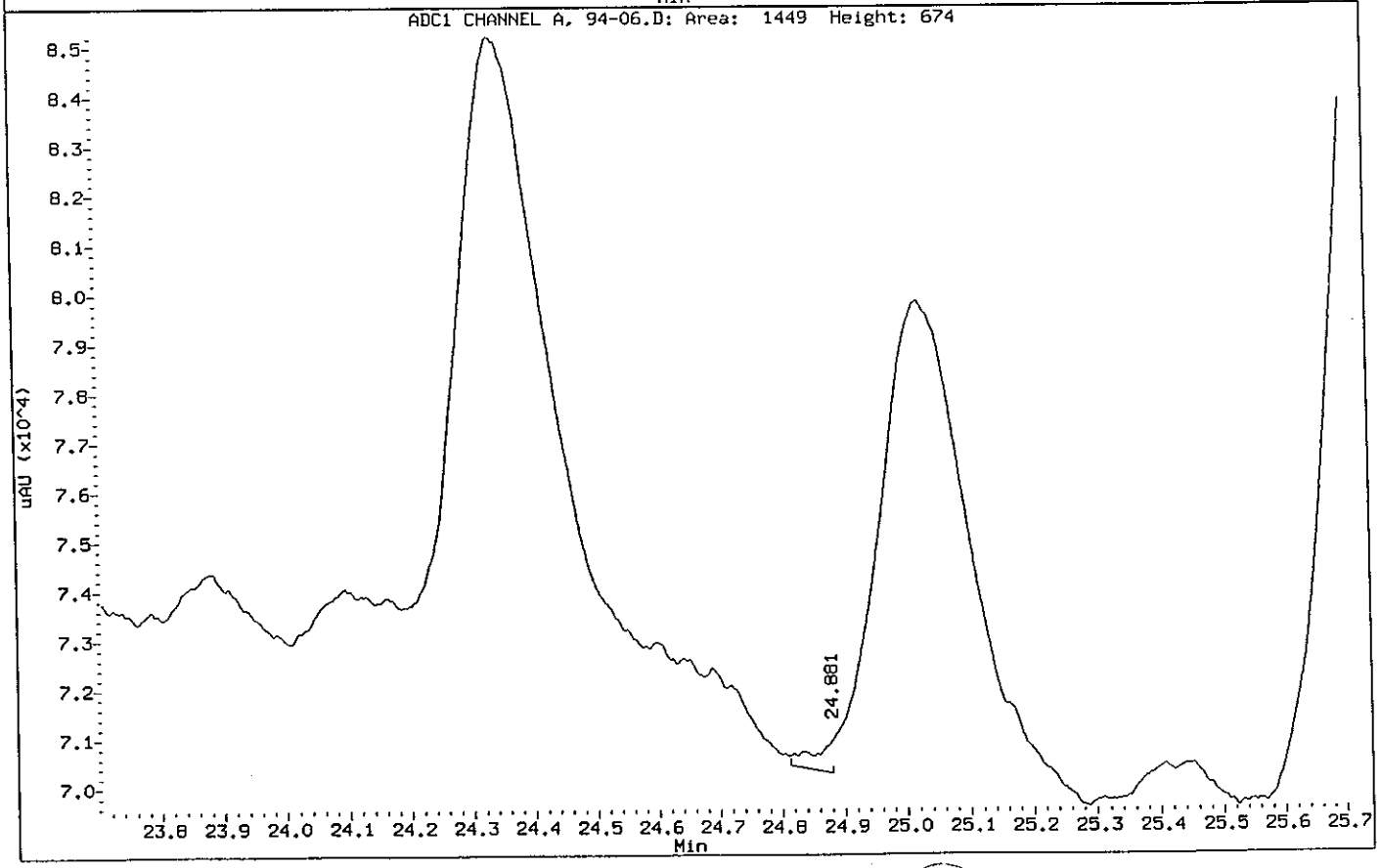




Data File: \\SVHPLC\ee\chem\slc02.1\L21028R1.b\94-06.D
Injection Date: 29-OCT-2001 06:36
Instrument: slc02.1
Client Sample ID: 062B99S101801

Compound: Indeno(123cd)Pyrene
CAS Number: 193-39-5





PEL Laboratories

Data file : \\SVHPLC\ee\chem\slc02.i\L21028R1.b\CCV3.D
Lab Smp Id: 15STD3206 Client Smp ID: 15STD3206
Inj Date : 29-OCT-2001 09:29
Operator : rood Inst ID: slc02.i
Smp Info : 15STD3206
Misc Info :
Comment :
Method : \\SVHPLC\ee\chem\slc02.i\L21028R1.b\8310S.m
Meth Date : 02-Nov-2001 08:36 jdonnelly Quant Type: ISTD
Cal Date : 28-OCT-2001 20:26 Cal File: PT2UGML.D
Als bottle: 21 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.04 Sample Matrix: SOIL
Processing Host: SVHPLC

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

					AMOUNTS CAL-AMT	ON-COL		
RT	EXP RT	REL RT	SIGNAL	RESPONSE	(ug/ml)	(ug/ml)	TARGET RANGE	RATIO
* 1 Carbazole (ISTD)						CAS #: 86-74-8		
11.210	10.610	(1.000)	VWD1A	238453			80.00- 120.00	100.00(M)
11.298	10.610	(1.008)	ADC1A	1943466	10.0000		652.03- 978.05	815.03
2 Naphthalene						CAS #: 91-20-3		
12.230	11.770	(1.091)	VWD1A	83035	15.0000	15.0	80.00- 120.00	100.00
12.317	11.770	(1.099)	ADC1A	85668	15.0000	14.3	82.40- 123.60	103.17
3 Acenaphthylene						CAS #: 208-96-8		
13.393	13.013	(1.195)	VWD1A	57311	15.0000	14.1		
4 1-Methyl naphthalene						CAS #: 90-12-0		
13.976	13.633	(1.247)	VWD1A	47556	15.0000	14.3	80.00- 120.00	100.00(M)
14.068	13.633	(1.255)	ADC1A	172267	15.0000	14.0	296.60- 444.90	362.24

RT	EXP RT	REL RT	SIGNAL	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
5 2-Methyl naphthalene						CAS #: 91-57-6		
14.296	13.973	(1.275)	VWD1A	71642	15.0000	15.2	80.00- 120.00	100.00
14.385	13.973	(1.283)	ADC1A	161070	15.0000	15.5	191.55- 287.32	224.83
6 Acenaphthene						CAS #: 83-32-9		
14.616	14.310	(1.304)	VWD1A	30993	15.0000	14.5	80.00- 120.00	100.00
14.707	14.310	(1.312)	ADC1A	378962	15.0000	15.5	964.12-1446.17	1222.73
7 Fluorene						CAS #: 86-73-7		
14.966	14.680	(1.335)	VWD1A	373632	15.0000	15.2	80.00- 120.00	100.00
15.053	14.680	(1.343)	ADC1A	44429	15.0000	14.9	9.06- 13.59	11.89
8 Phenanthrene						CAS #: 85-01-8		
15.753	15.500	(1.405)	VWD1A	1042004	15.0000	15.2	80.00- 120.00	100.00
15.843	15.500	(1.413)	ADC1A	984684	15.0000	15.1	78.58- 117.87	94.50
9 Anthracene						CAS #: 120-12-7		
16.453	16.223	(1.468)	VWD1A	2237563			80.00- 120.00	100.00(M)
16.540	16.223	(1.476)	ADC1A	144088	15.0000	14.6	5.00- 7.50	6.44
10 Fluoranthene						CAS #: 206-44-0		
17.270	17.066	(1.541)	VWD1A	247294	15.0000	15.1	80.00- 120.00	100.00
17.360	17.066	(1.549)	ADC1A	19027			6.36- 9.54	7.69
11 Pyrene						CAS #: 129-00-0		
17.796	17.606	(1.588)	VWD1A	188907	15.0000	15.0	80.00- 120.00	100.00(M)
17.893	17.606	(1.596)	ADC1A	2254100	15.0000	13.4	930.64-1395.96	1193.23
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.733	18.593	(1.671)	VWD1A	225288	15.0000	15.5	80.00- 120.00	100.00
18.830	18.593	(1.680)	ADC1A	6159171	15.0000	15.4	2246.35-3369.53	2733.91
13 Benzo(a)Anthracene						CAS #: 56-55-3		
19.556	19.426	(1.745)	VWD1A	584277	15.0000	15.2	80.00- 120.00	100.00
19.652	19.426	(1.753)	ADC1A	6362091	15.0000	15.4	881.58-1322.37	1088.88
14 Chrysene						CAS #: 218-01-9		
19.940	19.820	(1.779)	VWD1A	814445	15.0000	14.8	80.00- 120.00	100.00
20.033	19.820	(1.787)	ADC1A	1922155	15.0000	14.7	190.14- 285.21	236.01
15 Benzo(b)Fluoranthene						CAS #: 205-99-2		
21.333	21.253	(1.903)	VWD1A	656717	15.0000	15.5	80.00- 120.00	100.00
21.427	21.253	(1.911)	ADC1A	168151	15.0000	15.2	20.85- 31.28	25.60
16 Benzo(k)Fluoranthene						CAS #: 207-08-9		
21.943	21.883	(1.957)	VWD1A	490869	15.0000	15.2	80.00- 120.00	100.00

					AMOUNTS CAL-AMT	ON-COL		
RT	EXP RT	REL RT	SIGNAL	RESPONSE	(ug/ml)	(ug/ml)	TARGET RANGE	RATIO
16 Benzo(k)Fluoranthene (continued)								
22.042	21.883	(1.966)	ADC1A	324687	15.0000	15.3	52.76- 79.15	66.15
17 Benzo(a)pyrene						CAS #: 50-32-8		
22.526	22.476	(2.010)	VWD1A	576101	15.0000	15.2	80.00- 120.00	100.00
22.625	22.476	(2.018)	ADC1A	999995	15.0000	15.8	138.13- 207.19	173.58
18 Dibenz(ah)Anthracene						CAS #: 53-70-3		
23.520	23.493	(2.098)	VWD1A	131739	15.0000	15.7	80.00- 120.00	100.00
23.617	23.493	(2.107)	ADC1A	1570335	15.0000	15.7	949.04-1423.56	1192.00
19 Benzo(ghi)Perylene						CAS #: 191-24-2		
24.250	24.226	(2.163)	VWD1A	219160	15.0000	15.3	80.00- 120.00	100.00
24.348	24.226	(2.172)	ADC1A	439092	15.0000	15.2	155.32- 232.98	200.35
20 Indeno(123cd)Pyrene						CAS #: 193-39-5		
24.716	24.703	(2.205)	VWD1A	568665	15.0000	15.8	80.00- 120.00	100.00(M)
25.010	24.703	(2.231)	ADC1A	43792			0.00- 0.00	7.70

QC Flag Legend

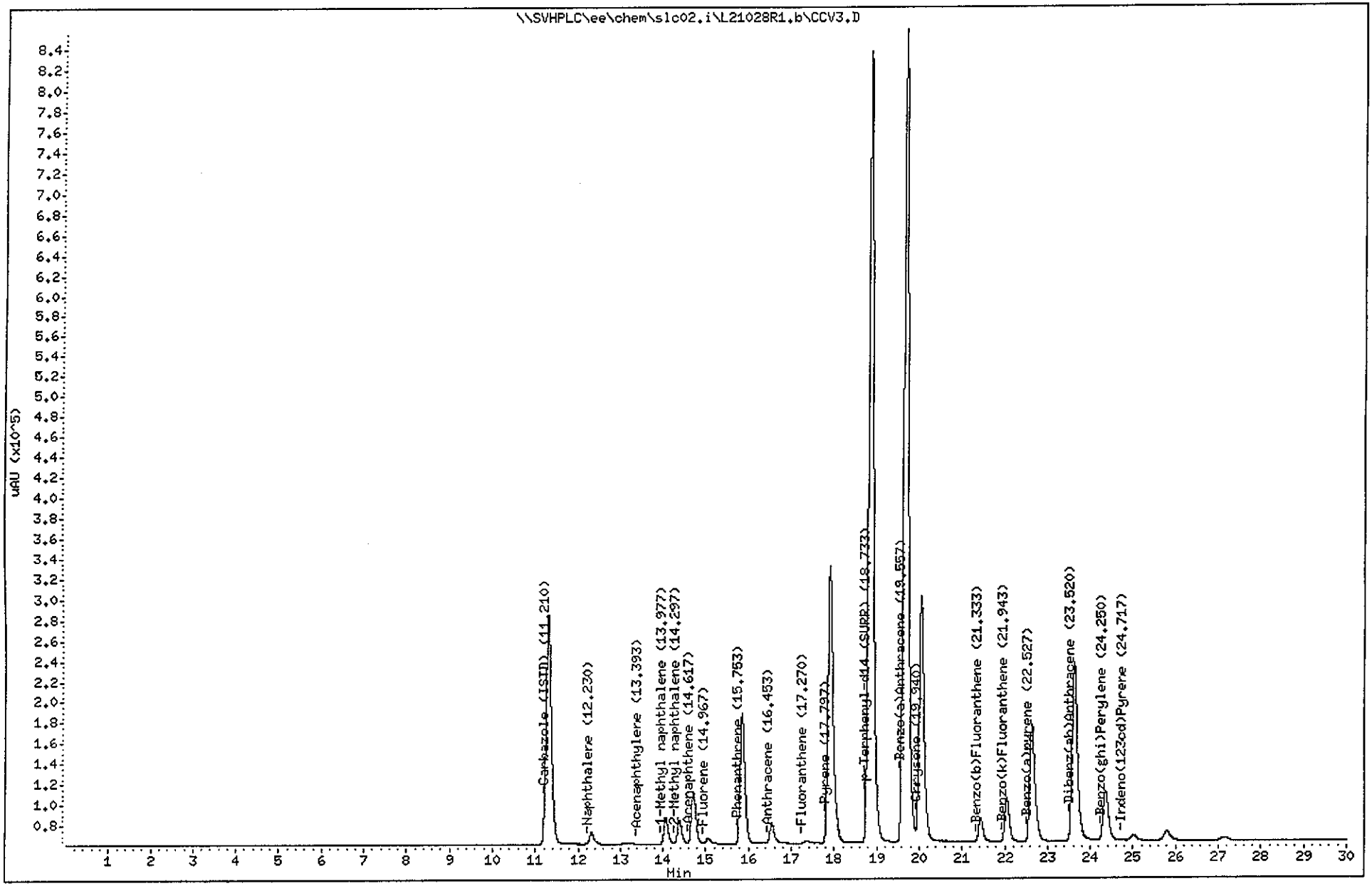
M - Compound response manually integrated.

Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\CCV3.D
Date : 29-OCT-2001 09:29
Client ID: 15STD3206
Sample Info: 15STD3206

Instrument: slc02.i

Operator: rood
Column diameter: 4.60

Column phase: Vydac201TP54



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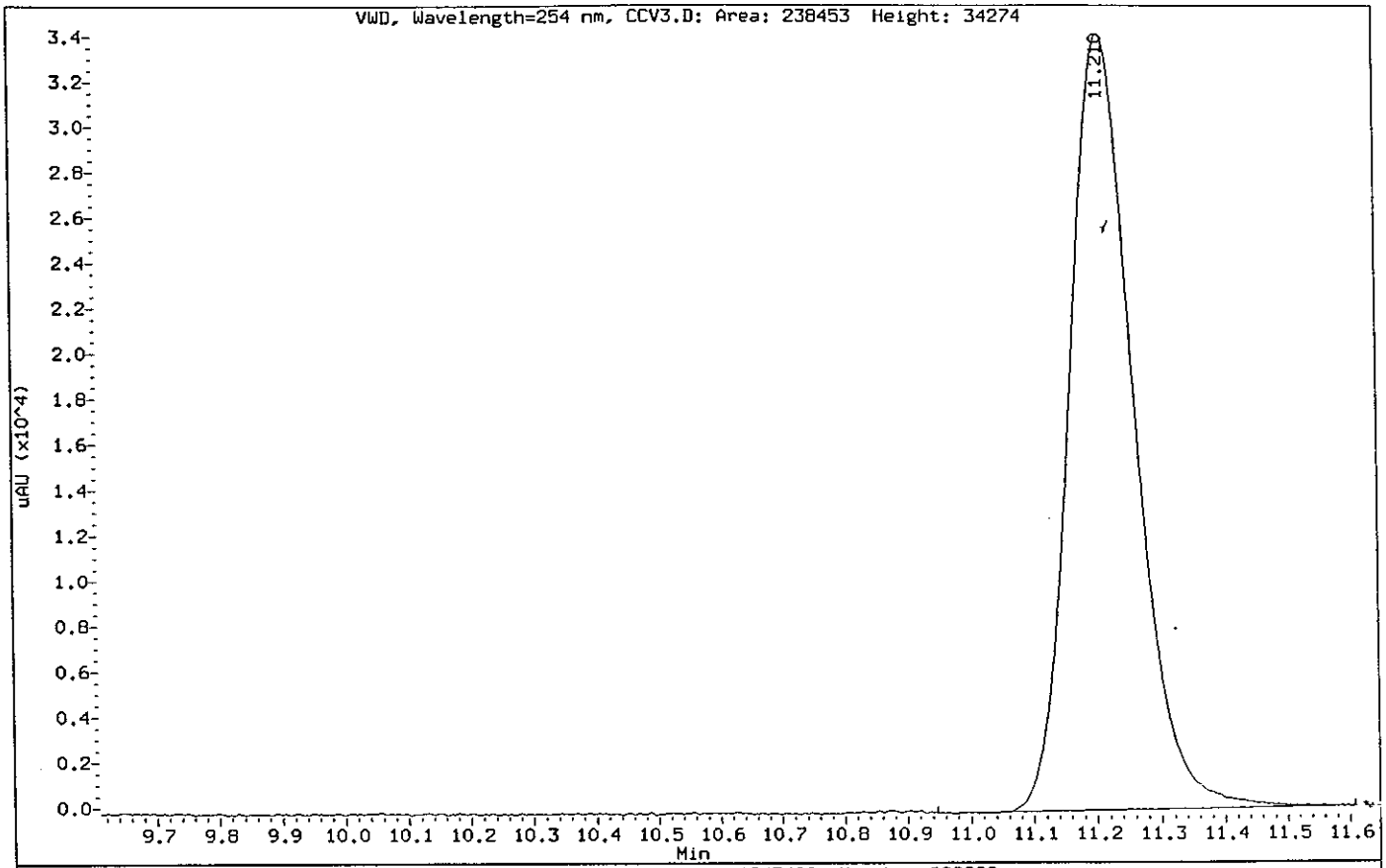
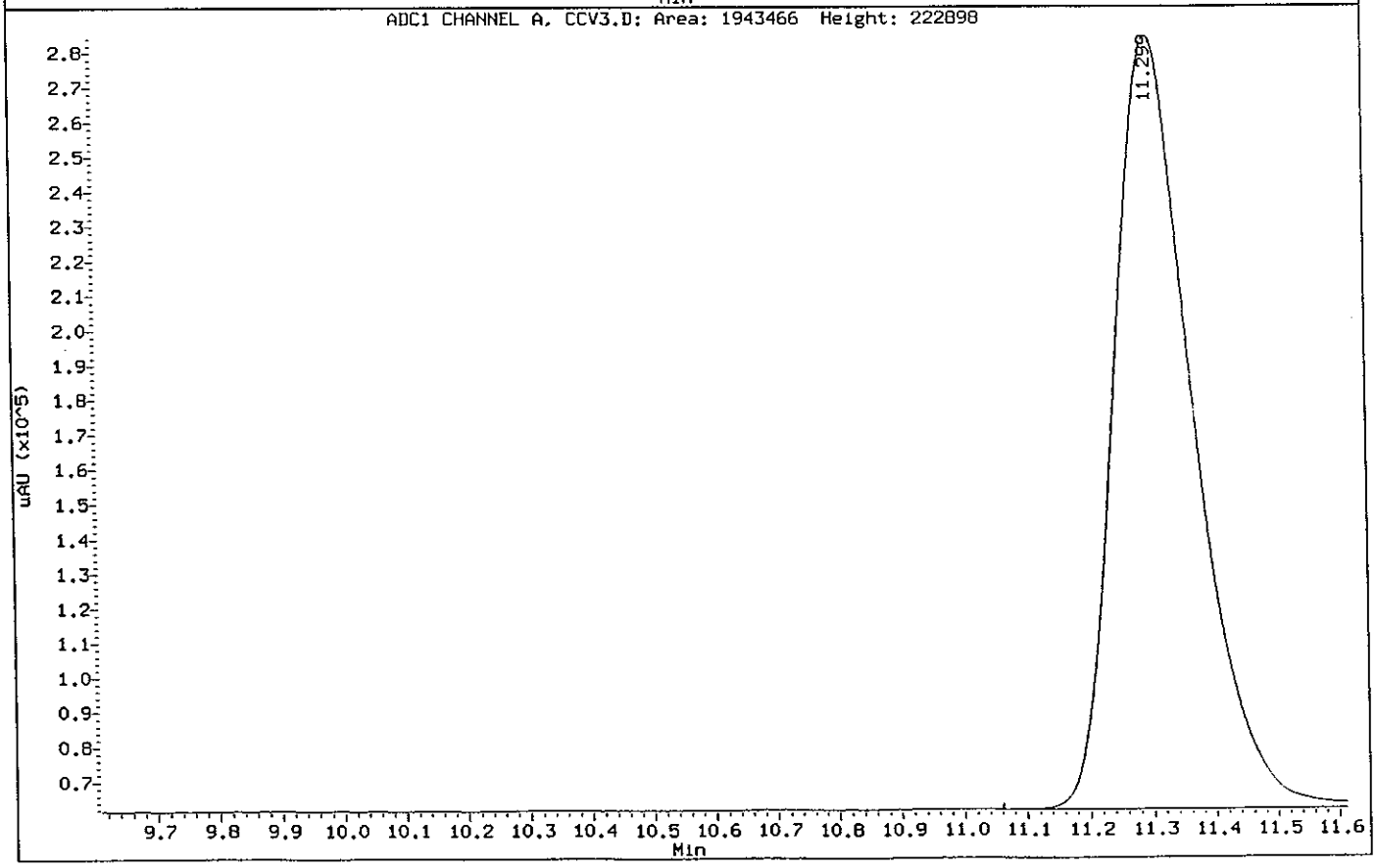
Injection Date: 29-OCT-2001 09:29
Instrument: slc02.i
Client Sample ID: 15STD3206

Compound: Carbazole (ISTD)
CAS Number: 86-74-8





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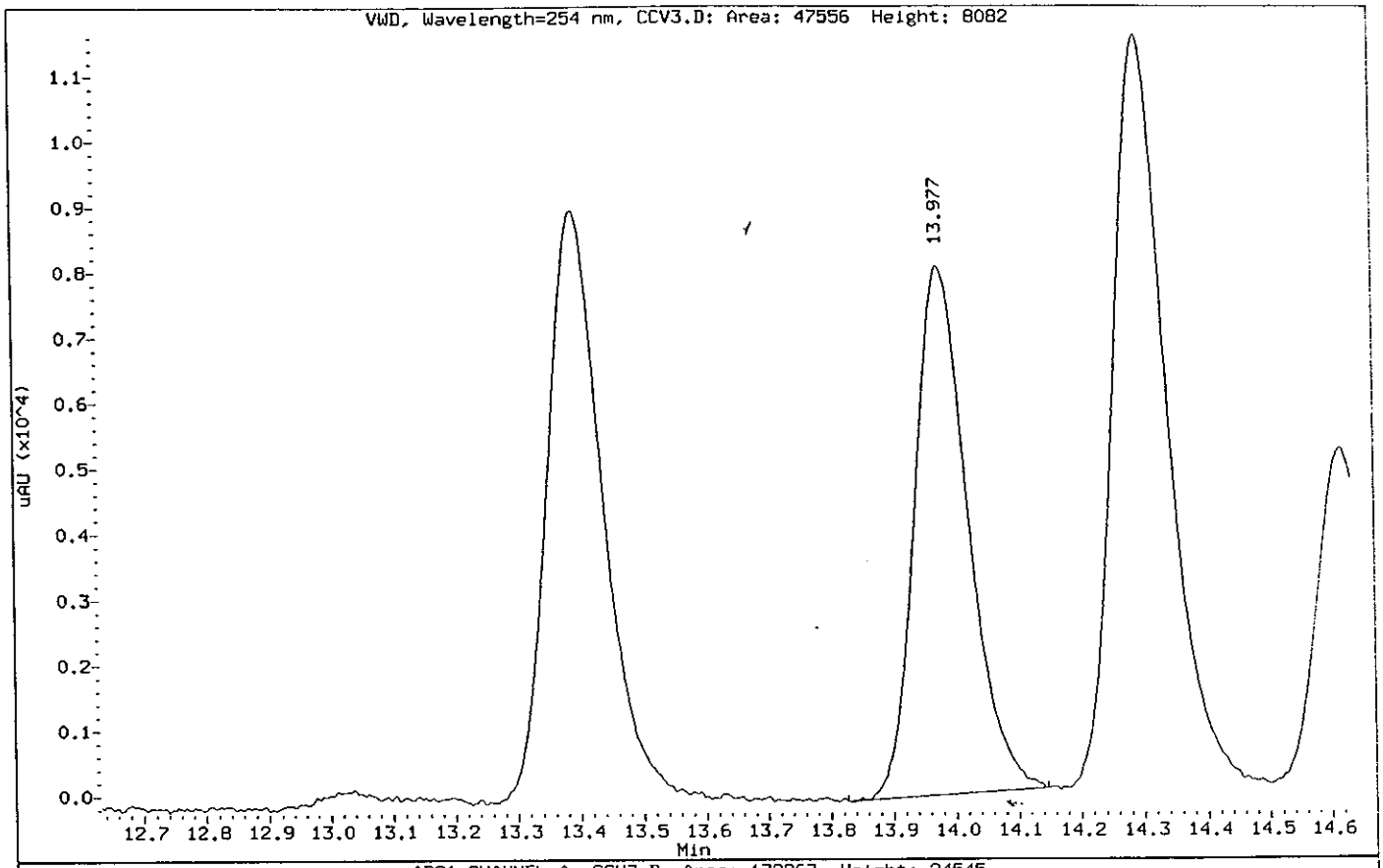
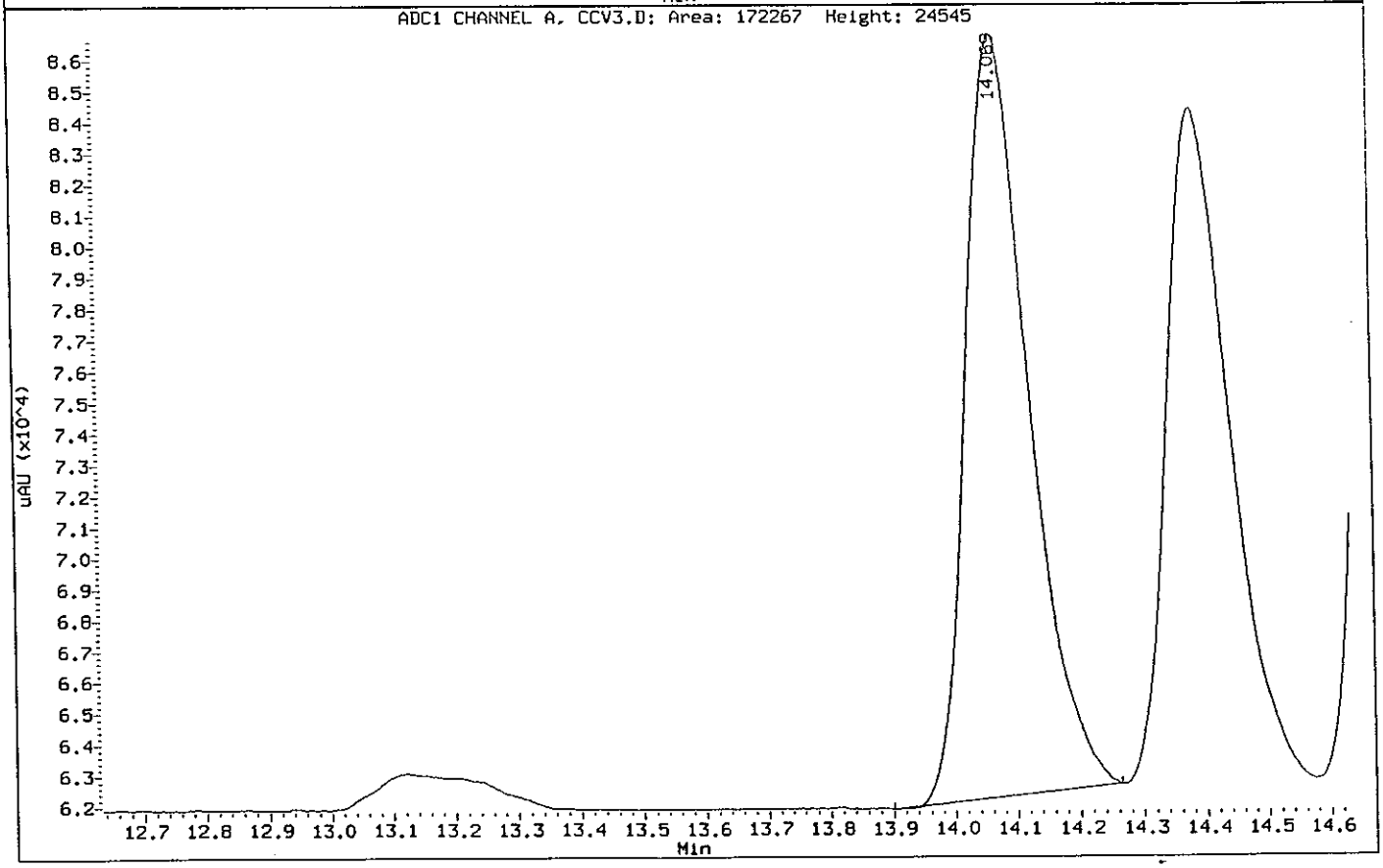
Injection Date: 29-OCT-2001 09:29
Instrument: slc02.i
Client Sample ID: 15STD3206

Compound: 1-Methyl naphthalene
CAS Number: 90-12-0





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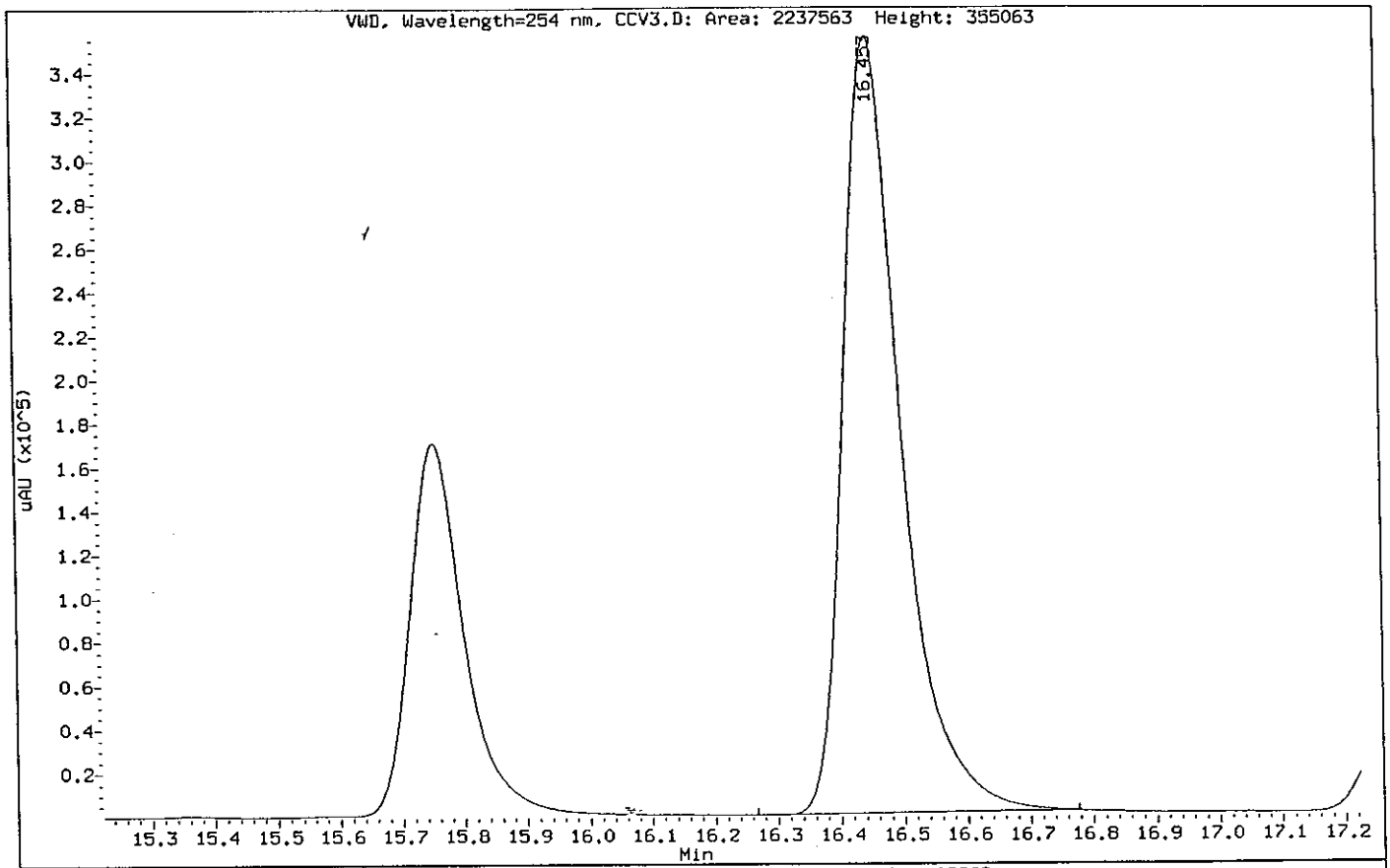
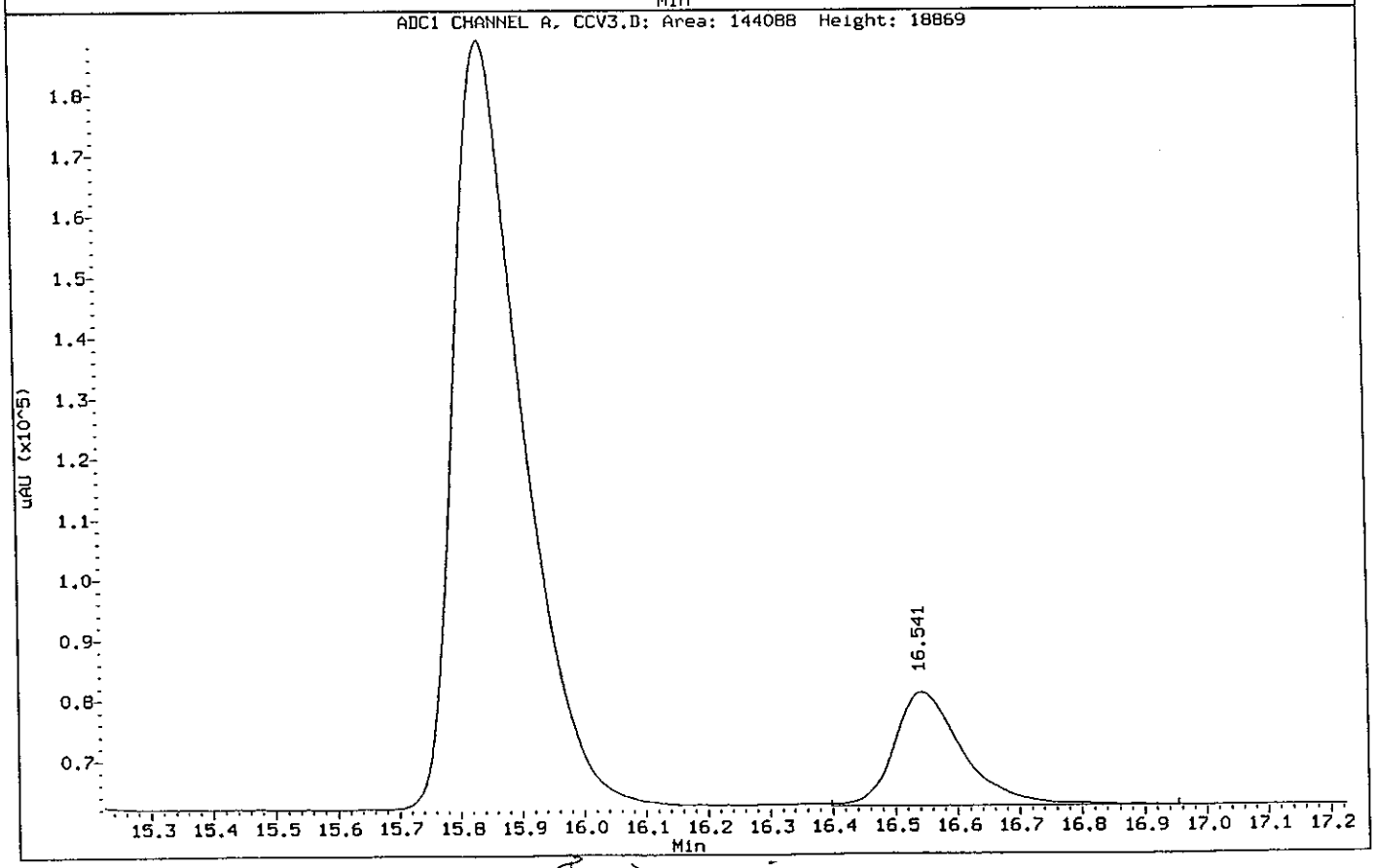
Instrument: slc02.i
Client Sample ID: 15STD3206

Compound: Anthracene
CAS Number: 120-12-7





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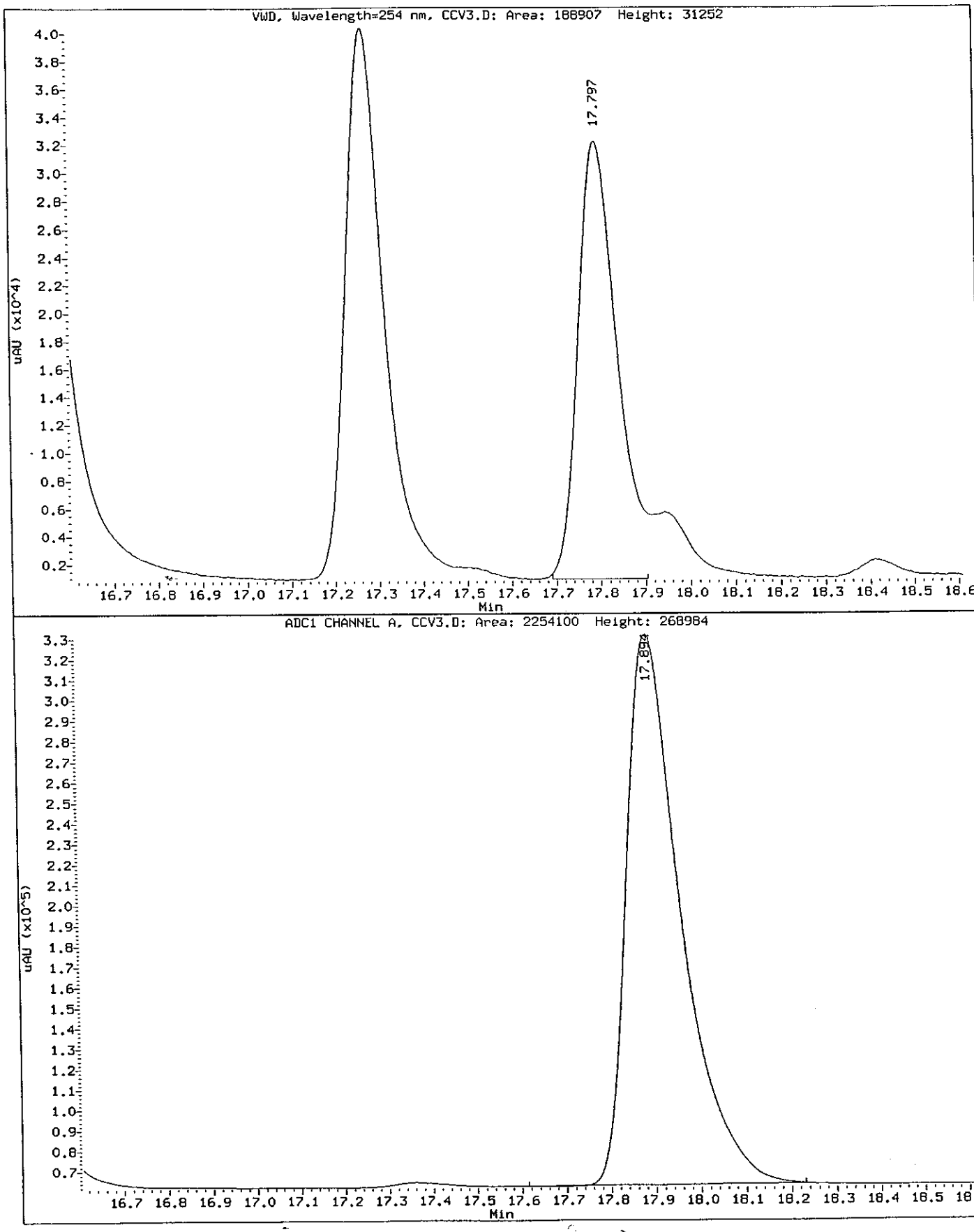
Injection Date: 29-OCT-2001 09:29
Instrument: slc02.i
Client Sample ID: 15STD3206

Compound: Pyrene
CAS Number: 129-00-0



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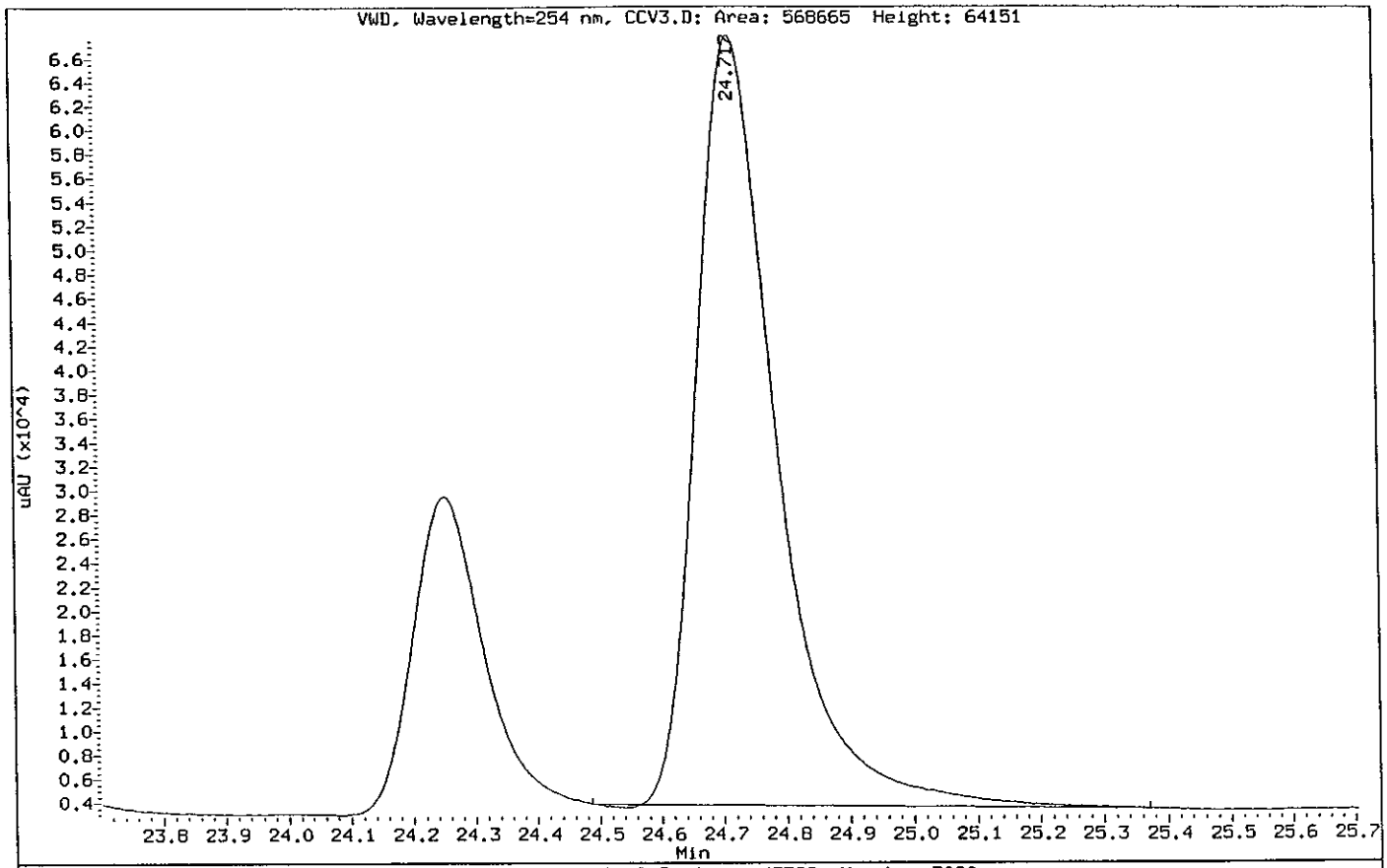
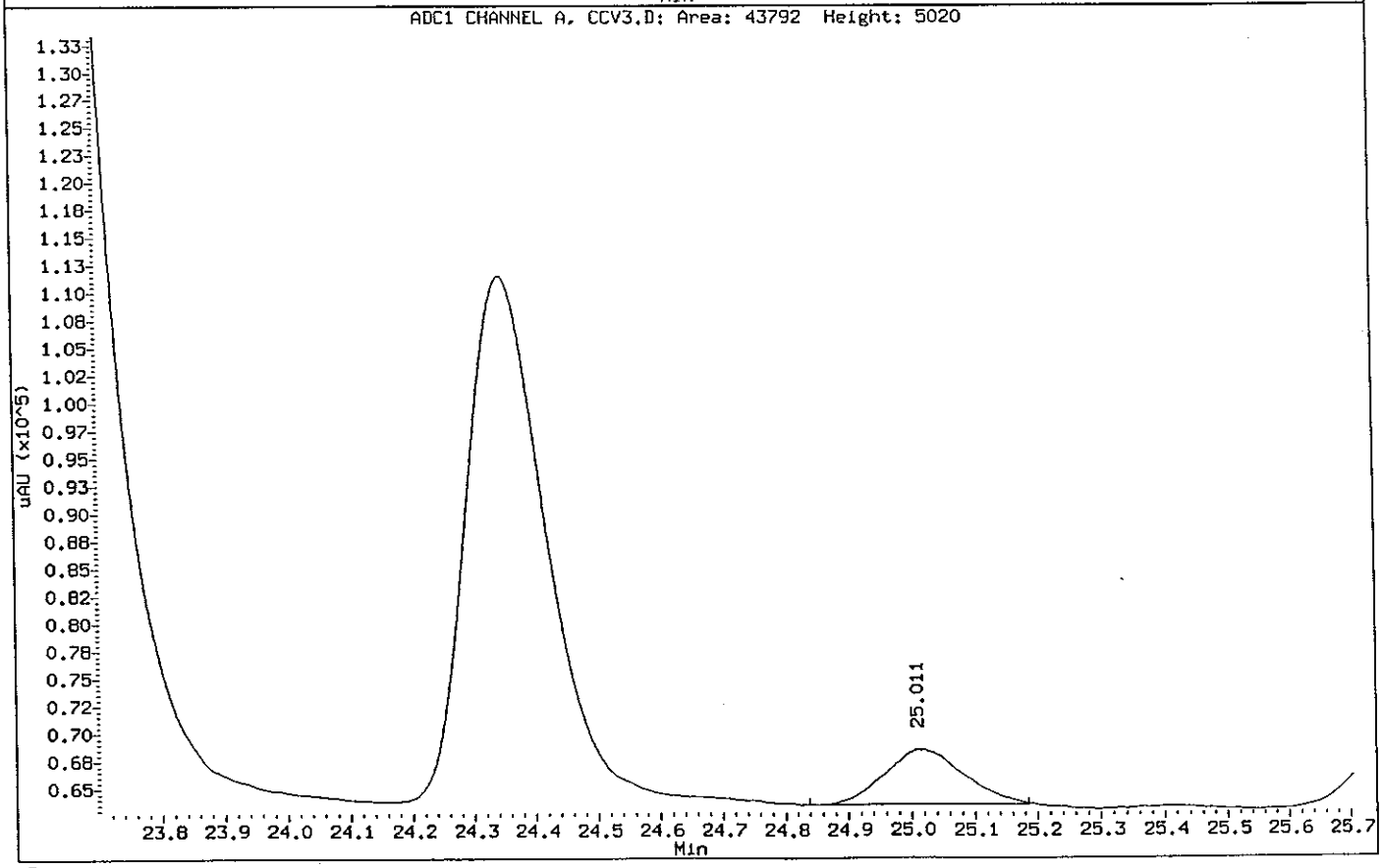
Injection Date: 29-OCT-2001 09:29
Instrument: slc02.i
Client Sample ID: 15STD3206

Compound: Indeno(123cd)Pyrene
CAS Number: 193-39-5





PEL Laboratories

Data file : \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-8.D
Lab Smp Id: 211009408 Client Smp ID: 062B101S101801MS
Inj Date : 29-OCT-2001 11:27
Operator : rood Inst ID: slc02.i
Smp Info : 211009408
Misc Info :
Comment :
Method : \\SVHPLC\ee\chem\slc02.i\L21028R1.b\8310S.m
Meth Date : 02-Nov-2001 08:36 jdonnelly Quant Type: ISTD
Cal Date : 28-OCT-2001 20:26 Cal File: PT2UGML.D
Als bottle: 7 QC Sample: MS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: navy50.sub
Target Version: 4.04 Sample Matrix: SOIL
Processing Host: SVHPLC

Concentration Formula: Amt * DF * 1/((Ws*(1-(M/100)))/1000)*Vf

Name	Value	Description
DF	1.000	Dilution Factor
Ws	32.800	Extracted weight
M	11.009	% Moisture
Vf	1.000	Final Volume

	RT	EXP RT	REL RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO	
*	1 Carbazole (ISTD)						CAS #: 86-74-8			
	11.233	10.610	(1.000)	VWD1A	829964			80.00- 120.00	100.00	(M)
	11.253	10.610	(1.002)	ADC1A	2452130	10.0000		652.03- 978.05	295.45	
	2 Naphthalene						CAS #: 91-20-3			
	12.193	11.770	(1.085)	VWD1A	78692	11.3056	387	80.00- 120.00	100.00	(aM)
	12.409	11.770	(1.105)	ADC1A	207958	27.5698	944	82.40- 123.60	264.27	
	3 Acenaphthylene						CAS #: 208-96-8			
	13.333	13.013	(1.187)	VWD1A	209712	40.9993	1400			(ARM)
	4 1-Methyl naphthalene						CAS #: 90-12-0			
	13.943	13.633	(1.241)	VWD1A	64172	15.2875	524	80.00- 120.00	100.00	(RM)
	14.033	13.633	(1.249)	ADC1A	252282	16.2401	556	296.60- 444.90	393.13	

RT	EXP RT	REL RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO
5 2-Methyl naphthalene							CAS #: 91-57-6	
14.270	13.973	(1.270)	VWD1A	210989	35.5006	1220	80.00- 120.00	100.00(ARM)
14.354	13.973	(1.278)	ADC1A	181942	13.8480	474	191.55- 287.32	86.23
6 Acenaphthene							CAS #: 83-32-9	
14.633	14.310	(1.303)	VWD1A	30839	11.4490	392	80.00- 120.00	100.00(M)
14.676	14.310	(1.307)	ADC1A	392504	12.7133	436	964.12-1446.17	1272.75
7 Fluorene							CAS #: 86-73-7	
14.936	14.680	(1.330)	VWD1A	490169	15.7643	540	80.00- 120.00	100.00(RM)
15.028	14.680	(1.338)	ADC1A	53964	14.3283	491	9.06- 13.59	11.01
8 Phenanthrene							CAS #: 85-01-8	
15.726	15.500	(1.400)	VWD1A	2621607	30.3112	1040	80.00- 120.00	100.00(RM)
15.818	15.500	(1.408)	ADC1A	4708243	57.3627	1960	78.58- 117.87	179.59
10 Fluoranthene							CAS #: 206-44-0	
17.260	17.066	(1.536)	VWD1A	1170486	56.6101	1940	80.00- 120.00	100.00(ARM)
17.318	17.066	(1.542)	ADC1A	3770849			6.36- 9.54	322.16
11 Pyrene							CAS #: 129-00-0	
17.703	17.606	(1.576)	VWD1A	148248	9.34210	320	80.00- 120.00	100.00(MH)
17.851	17.606	(1.589)	ADC1A	1775953	8.37798	287	930.64-1395.96	1197.96
$ 12 p-Terphenyl-d14 (SURR)							CAS #: 1718-51-0	
18.733	18.593	(1.668)	VWD1A	1855338	100.924	3460	80.00- 120.00	100.00(ARM)
18.838	18.593	(1.677)	ADC1A	15912084	31.6232	1080	2246.35-3369.53	857.64
13 Benzo(a)Anthracene							CAS #: 56-55-3	
19.576	19.426	(1.743)	VWD1A	566588	11.6809	400	80.00- 120.00	100.00(MH)
19.589	19.426	(1.744)	ADC1A	2650293	5.08384	174	881.58-1322.37	467.76
14 Chrysene							CAS #: 218-01-9	
19.836	19.820	(1.766)	VWD1A	2561924	36.9678	1270	80.00- 120.00	100.00(ARM)
19.923	19.820	(1.774)	ADC1A	4162921	25.2221	864	190.14- 285.21	162.49
15 Benzo(b)Fluoranthene							CAS #: 205-99-2	
21.296	21.253	(1.896)	VWD1A	679635	12.7104	435	80.00- 120.00	100.00(M)
21.394	21.253	(1.905)	ADC1A	1107126	79.0794	2710	20.85- 31.28	162.90
16 Benzo(k)Fluoranthene							CAS #: 207-08-9	
21.910	21.883	(1.950)	VWD1A	446508	10.9246	374	80.00- 120.00	100.00(M)
22.063	21.883	(1.964)	ADC1A	140224	5.24814	180	52.76- 79.15	31.40
17 Benzo(a)pyrene							CAS #: 50-32-8	
22.483	22.476	(2.001)	VWD1A	673606	14.1348	484	80.00- 120.00	100.00(M)

RT	EXP RT	REL RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO
17 Benzo(a)pyrene (continued)								
22.579	22.476	(2.010)	ADC1A	1110339	13.9468	478	138.13- 207.19	164.84
18 Dibenz(ah)Anthracene						CAS #: 53-70-3		
23.470	23.493	(2.089)	VWD1A	83243	7.86232	269	80.00- 120.00	100.00(M)
23.563	23.493	(2.098)	ADC1A	886792	7.01278	240	949.04-1423.56	1065.31
19 Benzo(ghi)Perylene						CAS #: 191-24-2		
24.193	24.226	(2.154)	VWD1A	75564	4.19243	144	80.00- 120.00	100.00(M)
24.296	24.226	(2.163)	ADC1A	182985	5.01239	172	155.32- 232.98	242.16
20 Indeno(123cd)Pyrene						CAS #: 193-39-5		
24.656	24.703	(2.195)	VWD1A	308517	6.78938	233	80.00- 120.00	100.00(M)
24.926	24.703	(2.219)	ADC1A	94216			0.00- 0.00	30.54

QC Flag Legend

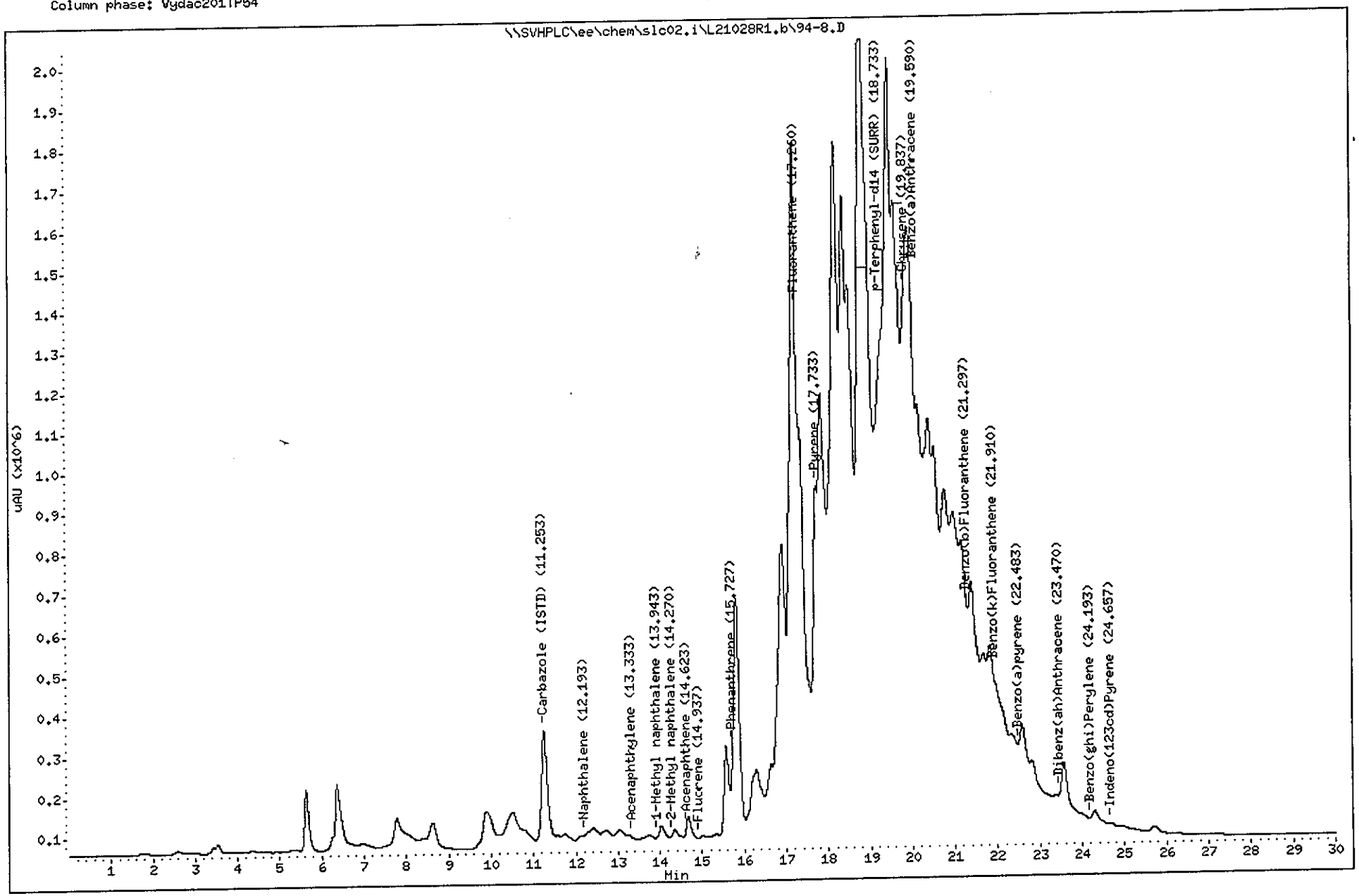
a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-8.D
Date : 29-OCT-2001 11:27
Client ID: 062B101S101801MS
Sample Info: 211009408

Column phase: Vydac201TP54

Instrument: slc02.i

Operator: rood
Column diameter: 4.60



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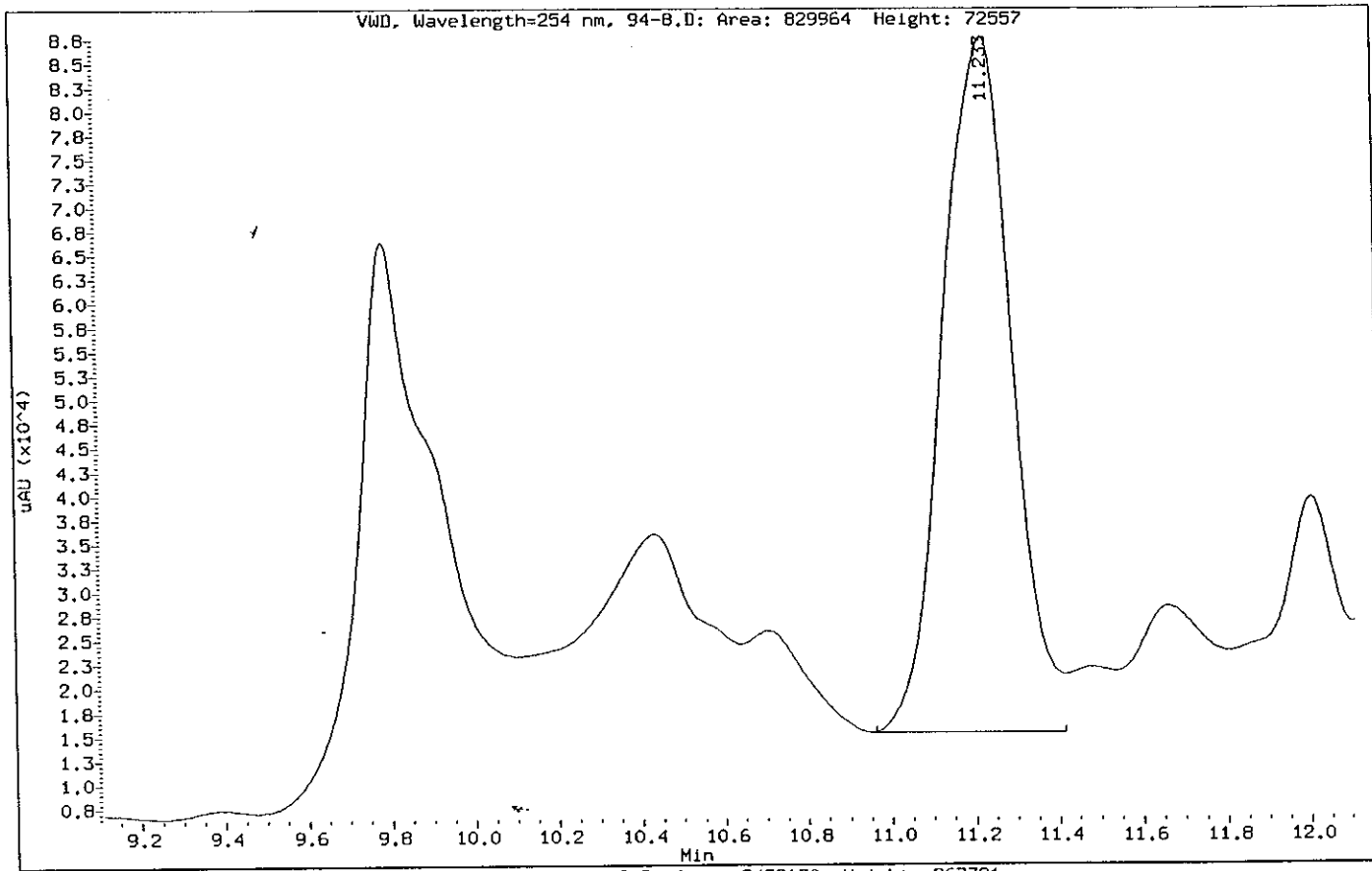
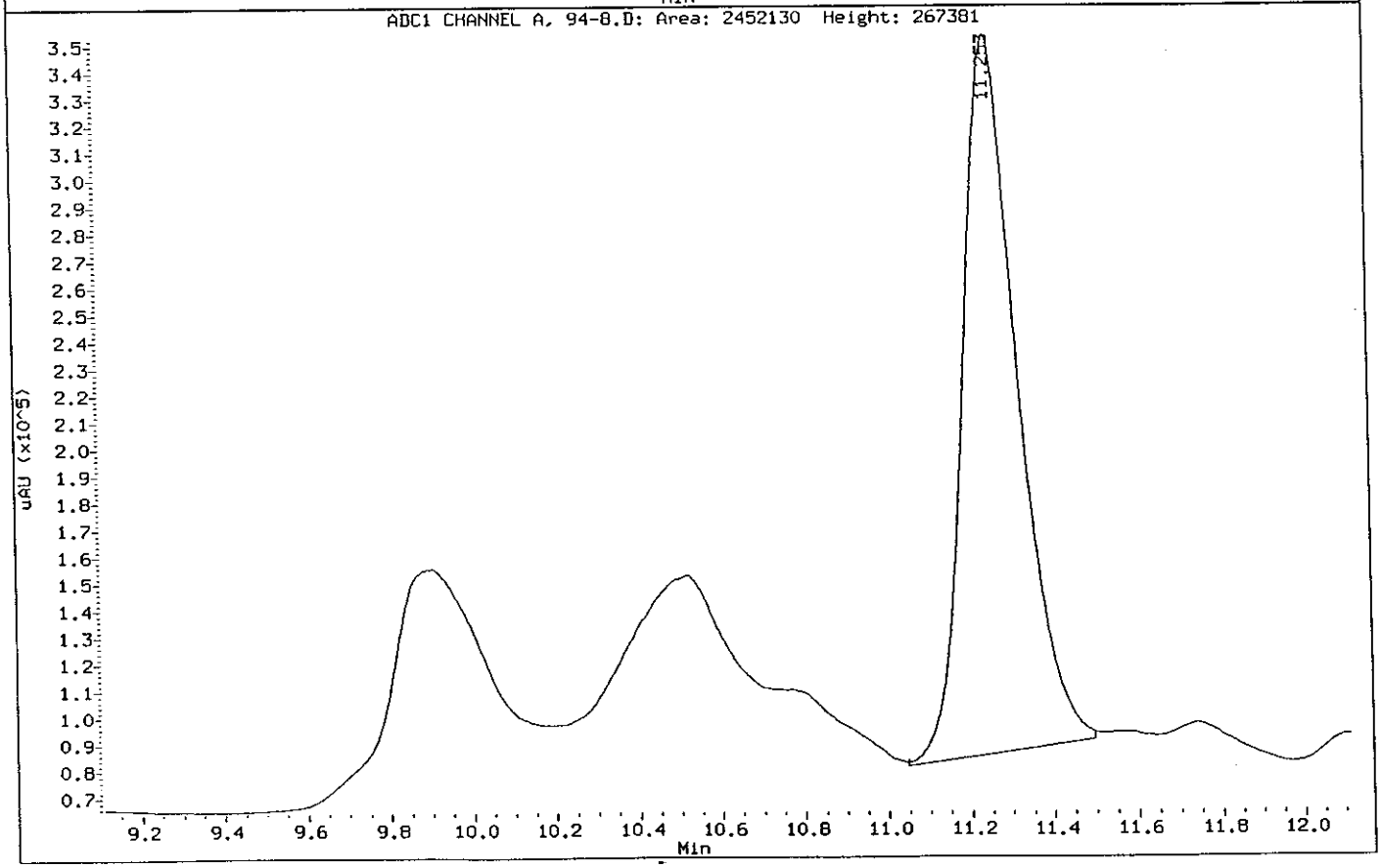
Injection Date: 29-OCT-2001 11:27
Instrument: slc02.i
Client Sample ID: 062B101S101801MS

Compound: Carbazole (ISTD)
CAS Number: 86-74-8





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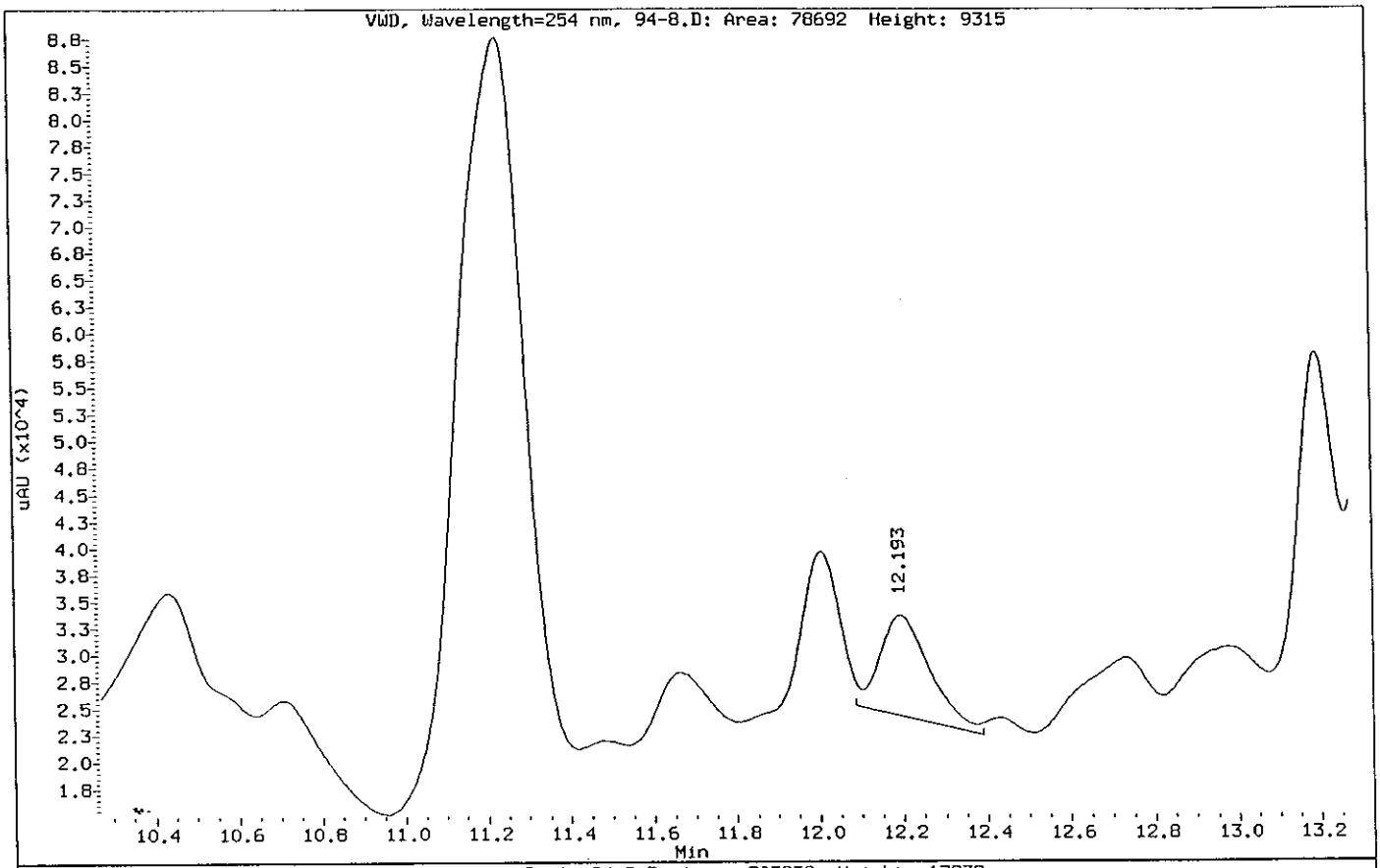
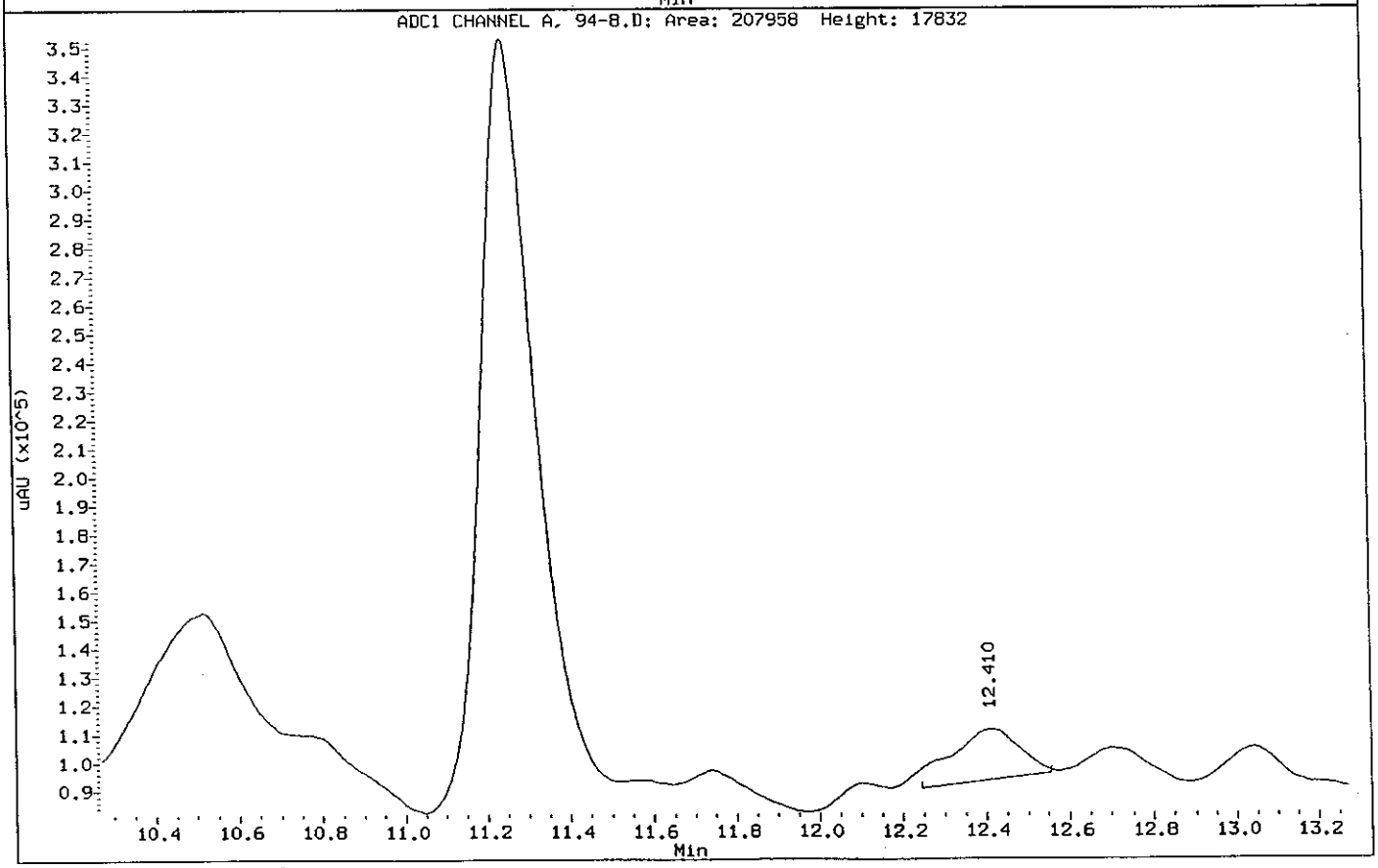
Injection Date: 29-OCT-2001 11:27
Instrument: slc02.i
Client Sample ID: 062B101S101801MS

Compound: Naphthalene
CAS Number: 91-20-3

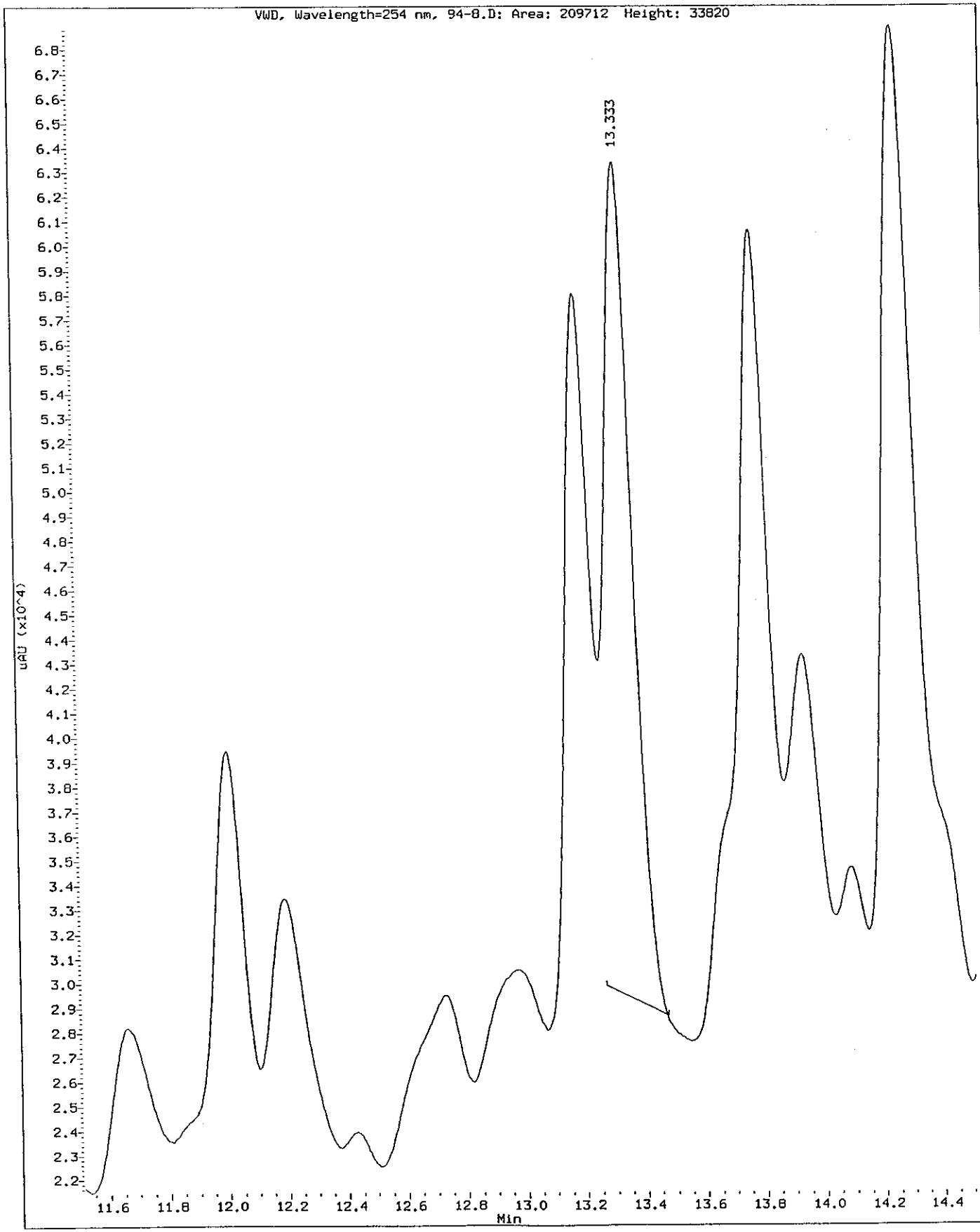




JWD

Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-8.D
Injection Date: 29-OCT-2001 11:27
Instrument: slc02.i
Client Sample ID: 062B101S101801MS

Compound: Acenaphthylene
CAS Number: 208-96-8



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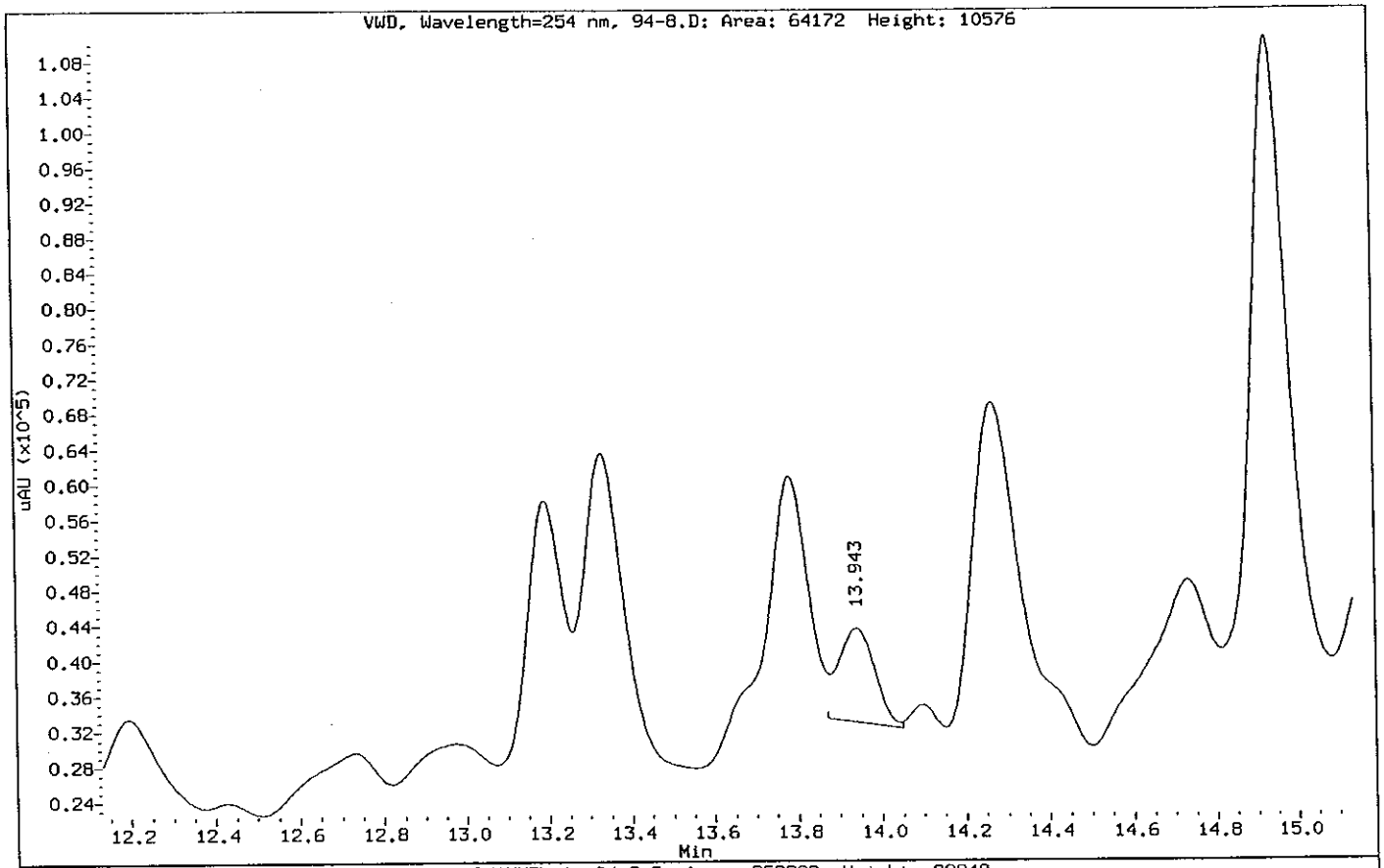
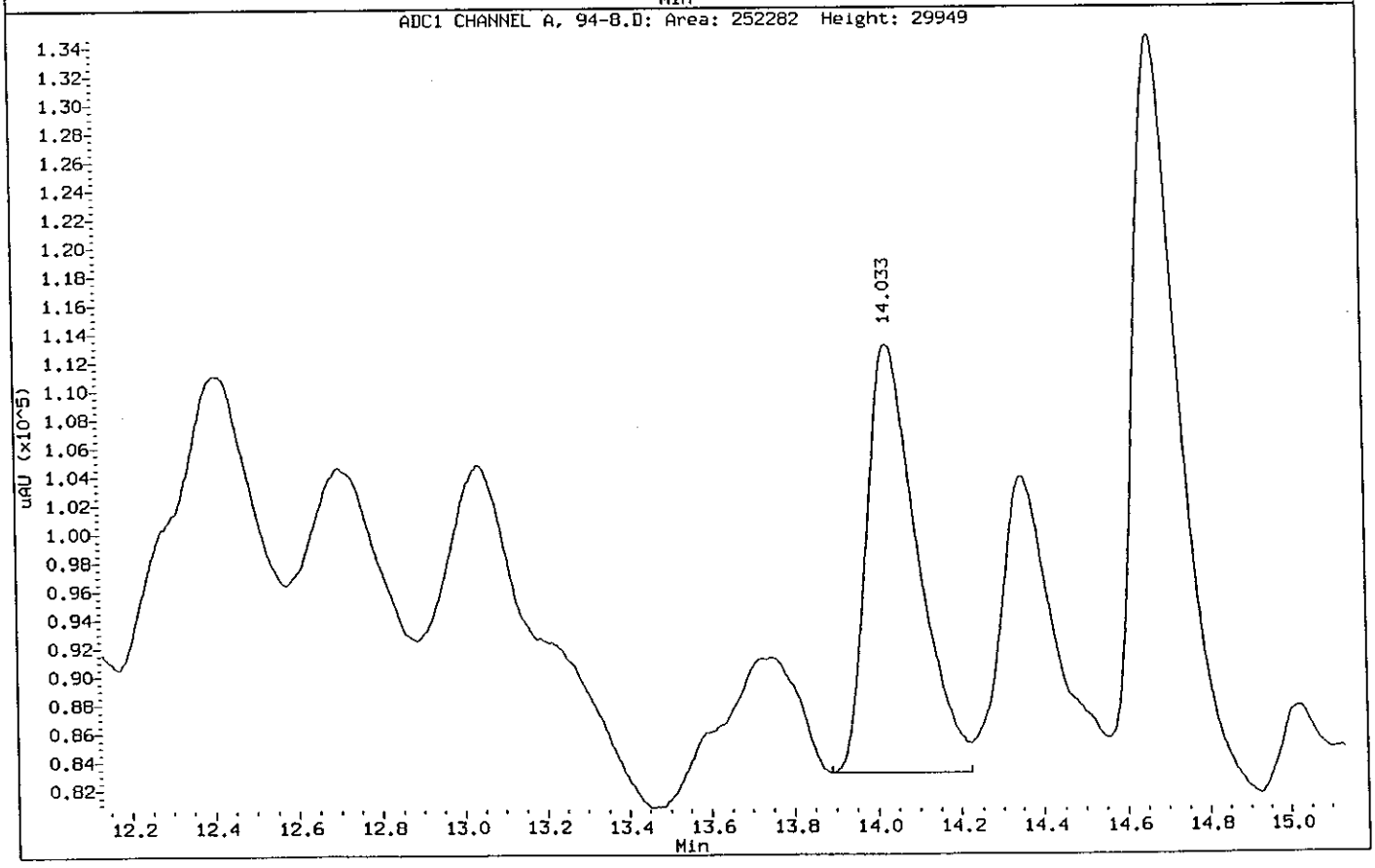
Injection Date: 29-OCT-2001 11:27
Instrument: slc02.i
Client Sample ID: 062B101S101801MS

Compound: 1-Methyl naphthalene
CAS Number: 90-12-0





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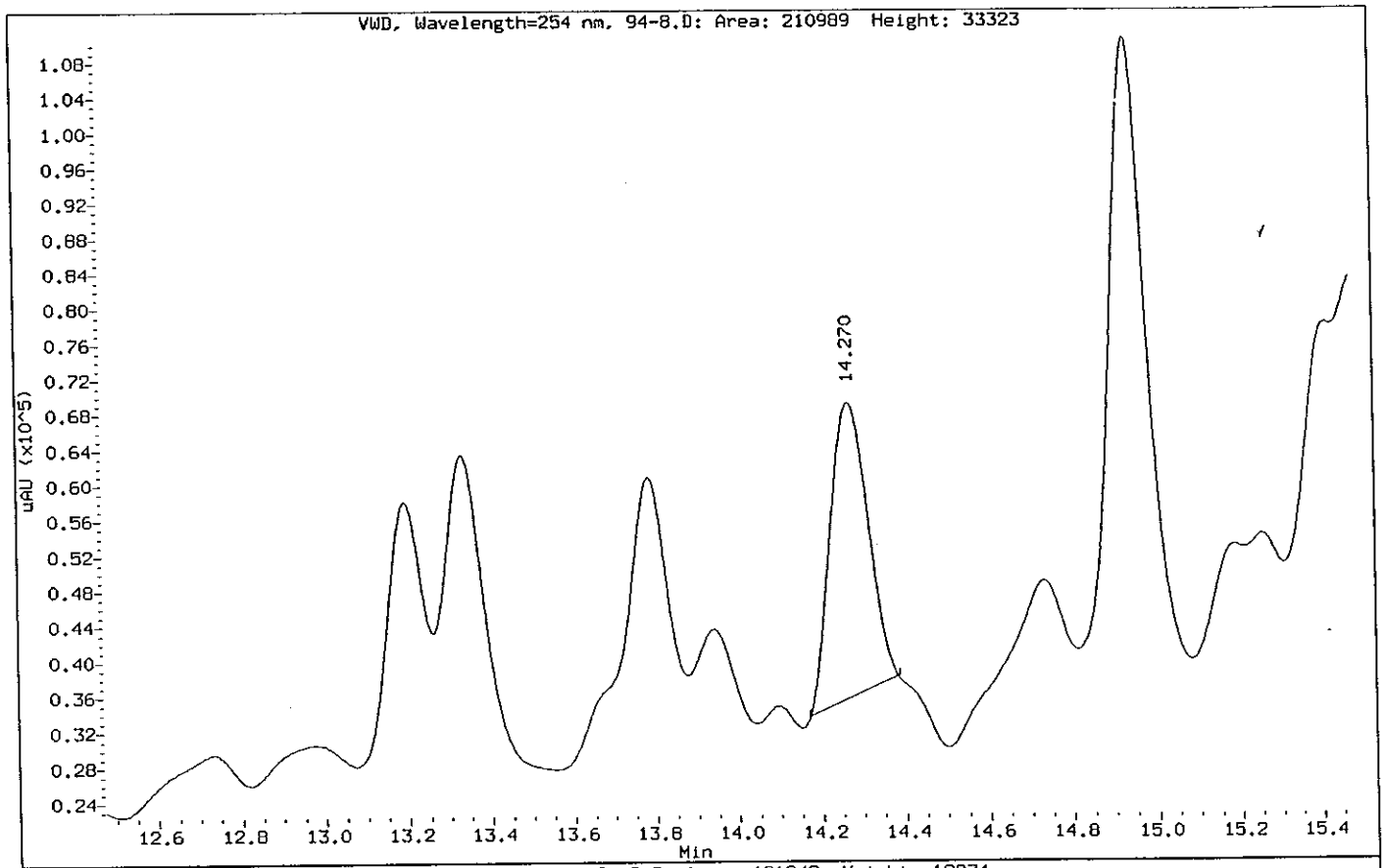
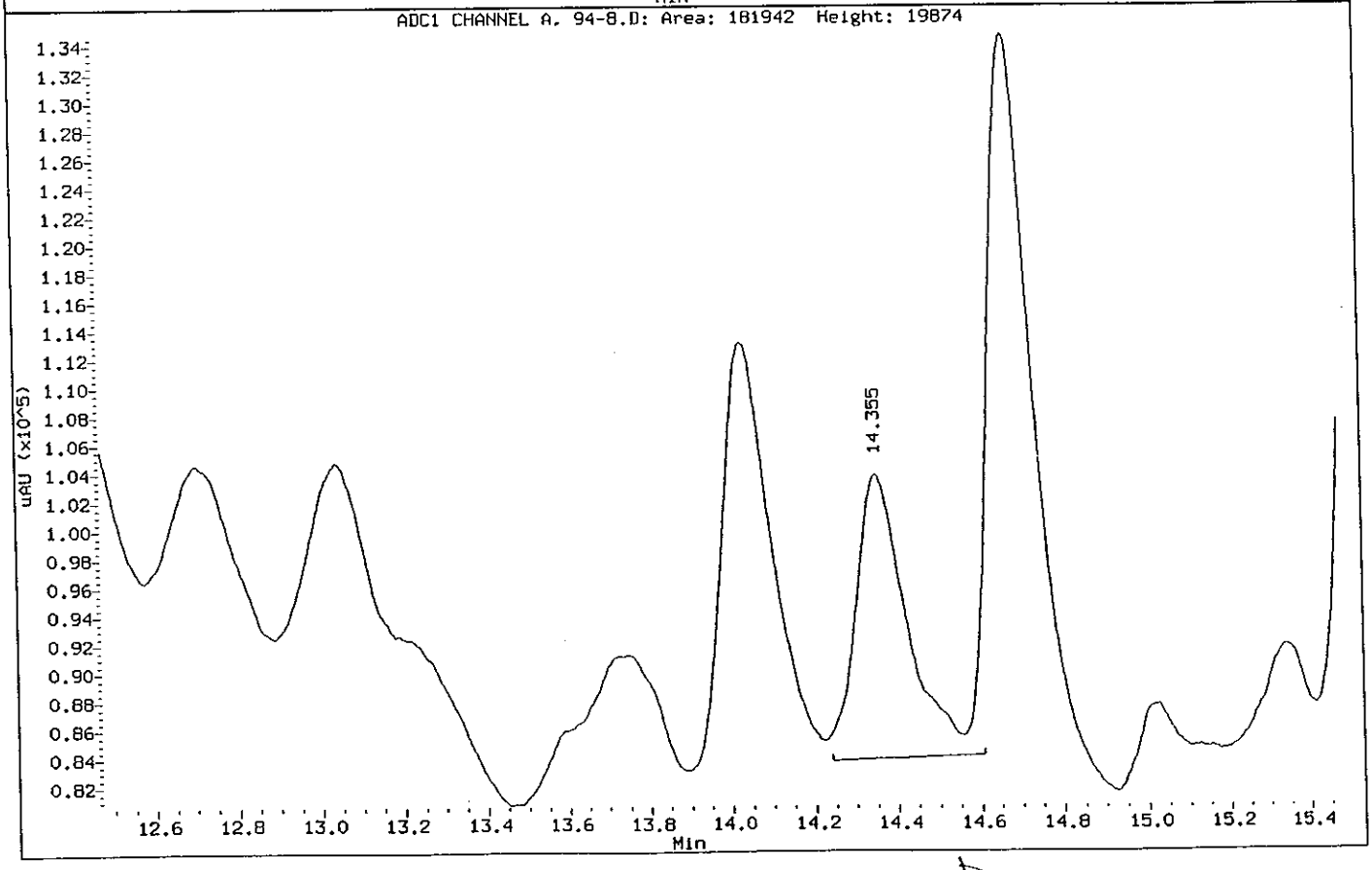
Injection Date: 29-OCT-2001 11:27
Instrument: slc02.i
Client Sample ID: 062B101S101801MS

Compound: 2-Methyl naphthalene
CAS Number: 91-57-6

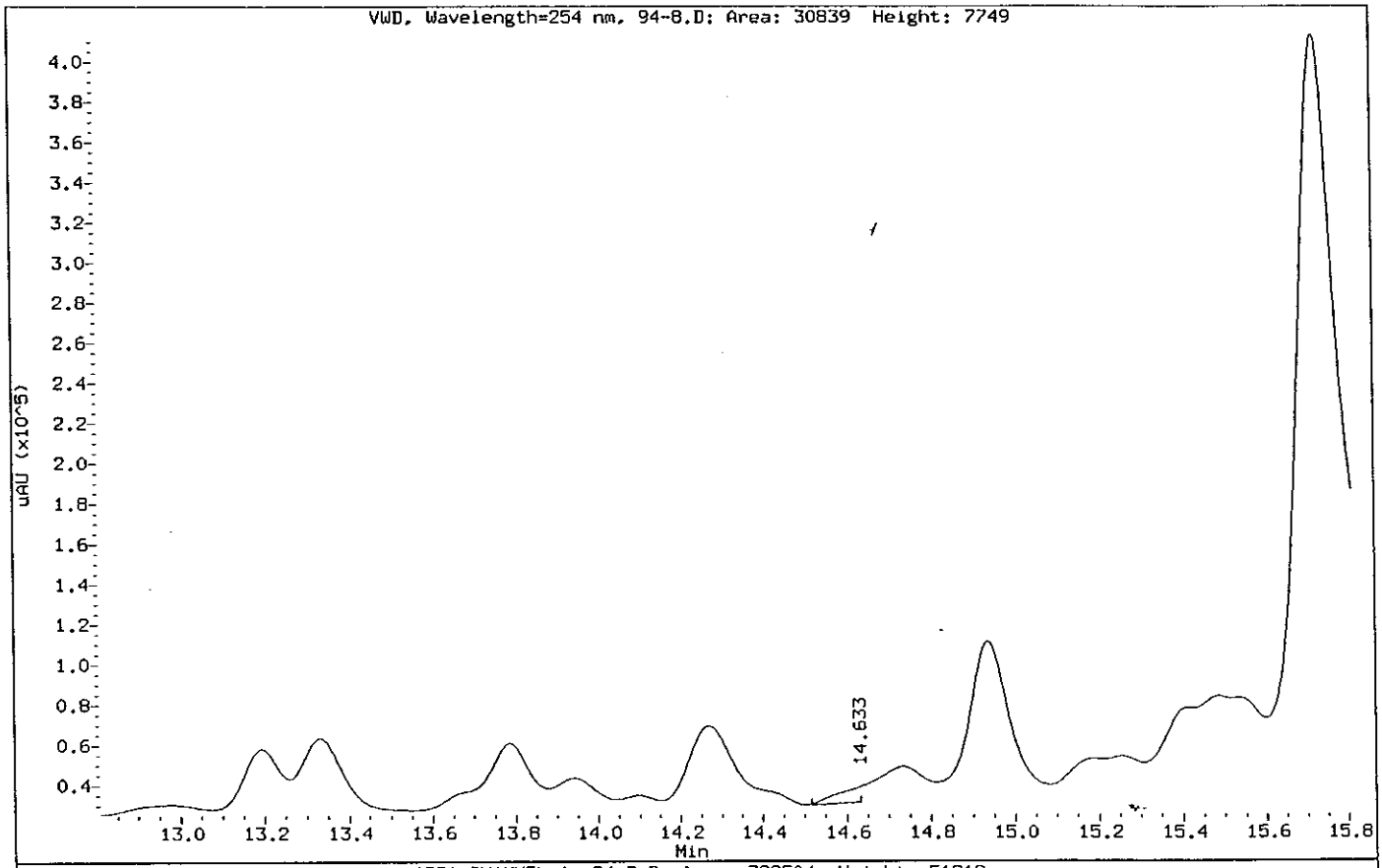


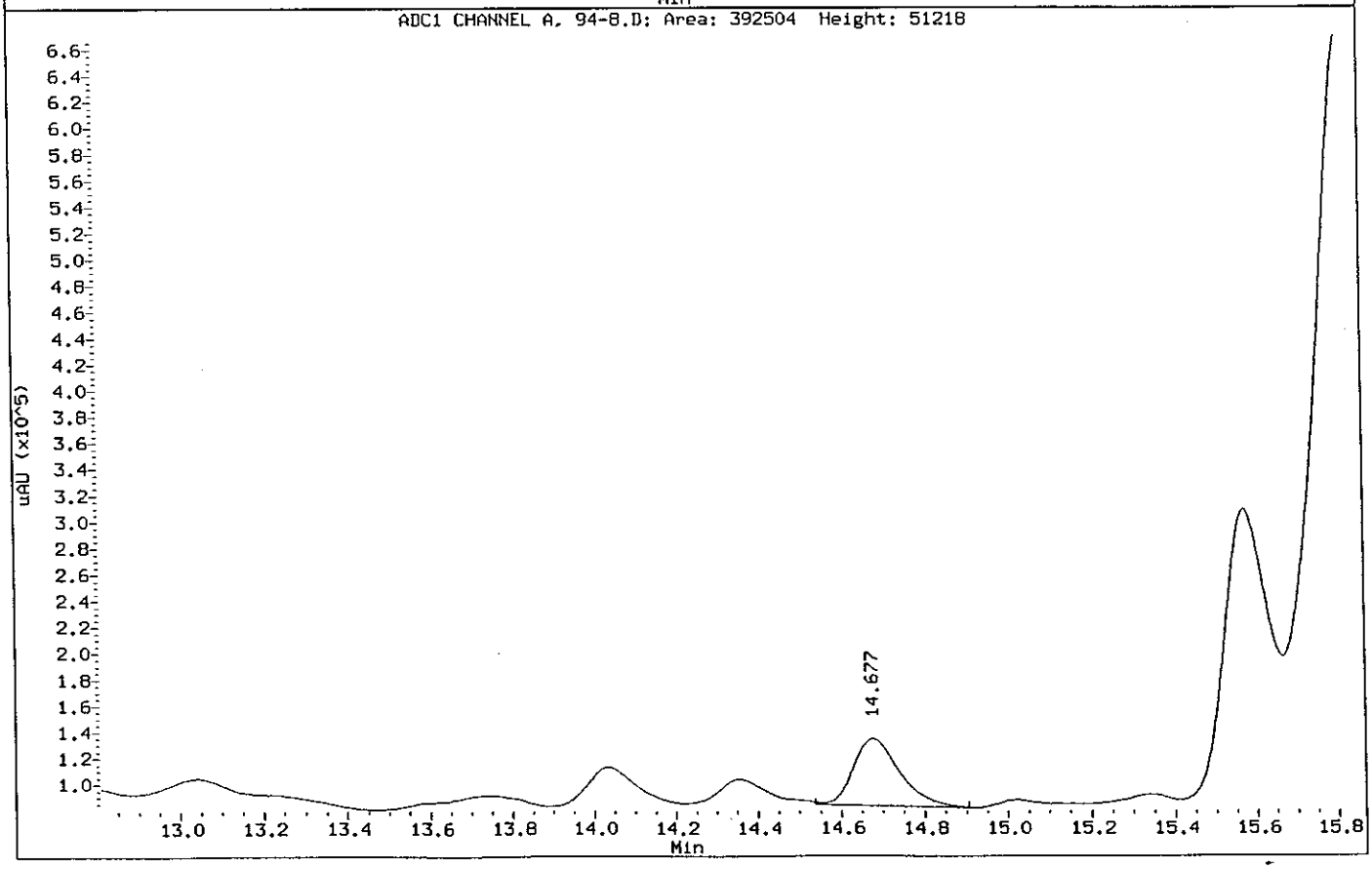


JMD

Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-8.D
Injection Date: 29-OCT-2001 11:27
Instrument: slc02.i
Client Sample ID: 062B101S101801MS

Compound: Acenaphthene
CAS Number: 83-32-9





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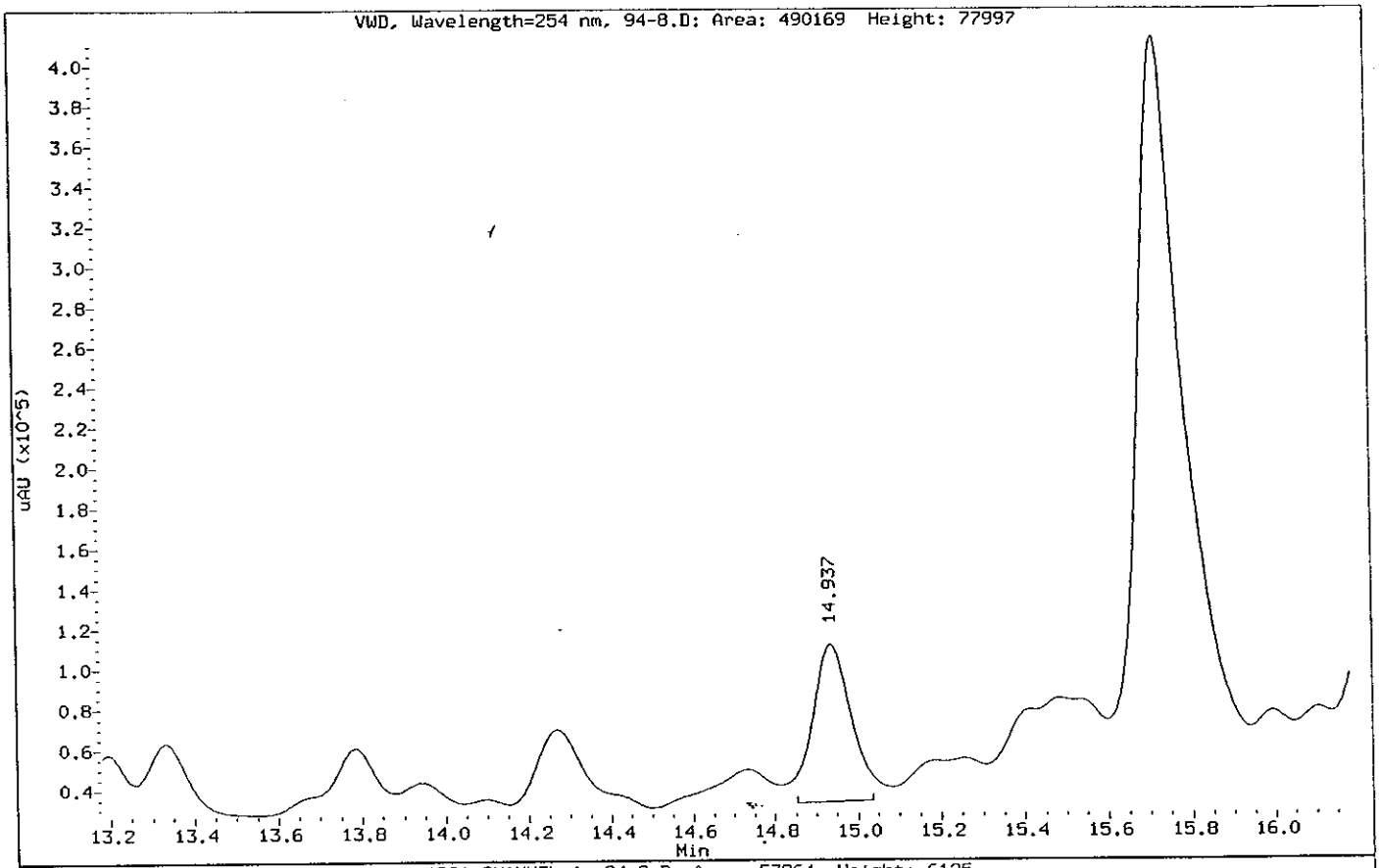
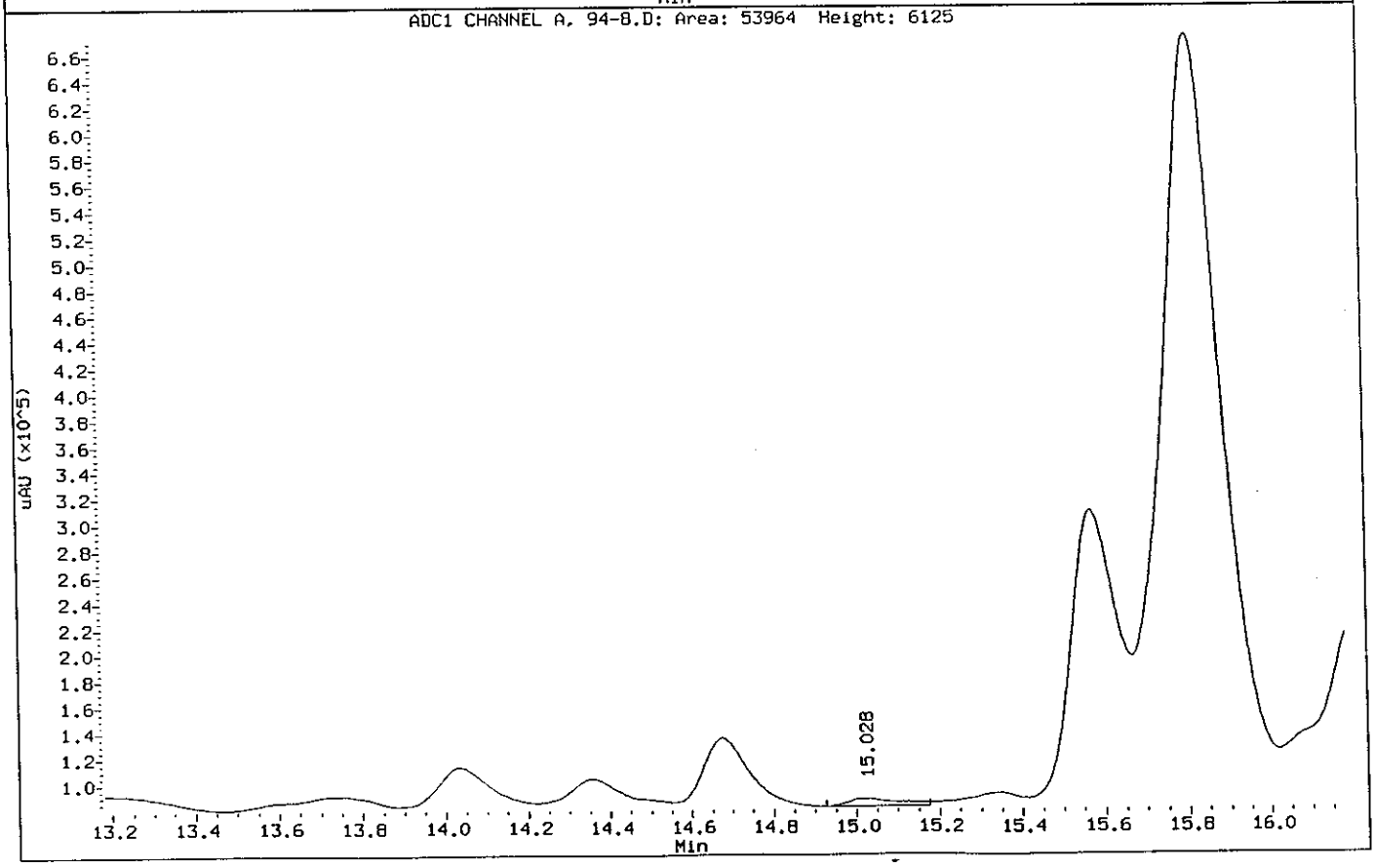
Injection Date: 29-OCT-2001 11:27
Instrument: slc02.i
Client Sample ID: 062B101S101801MS

Compound: Fluorene
CAS Number: 86-73-7





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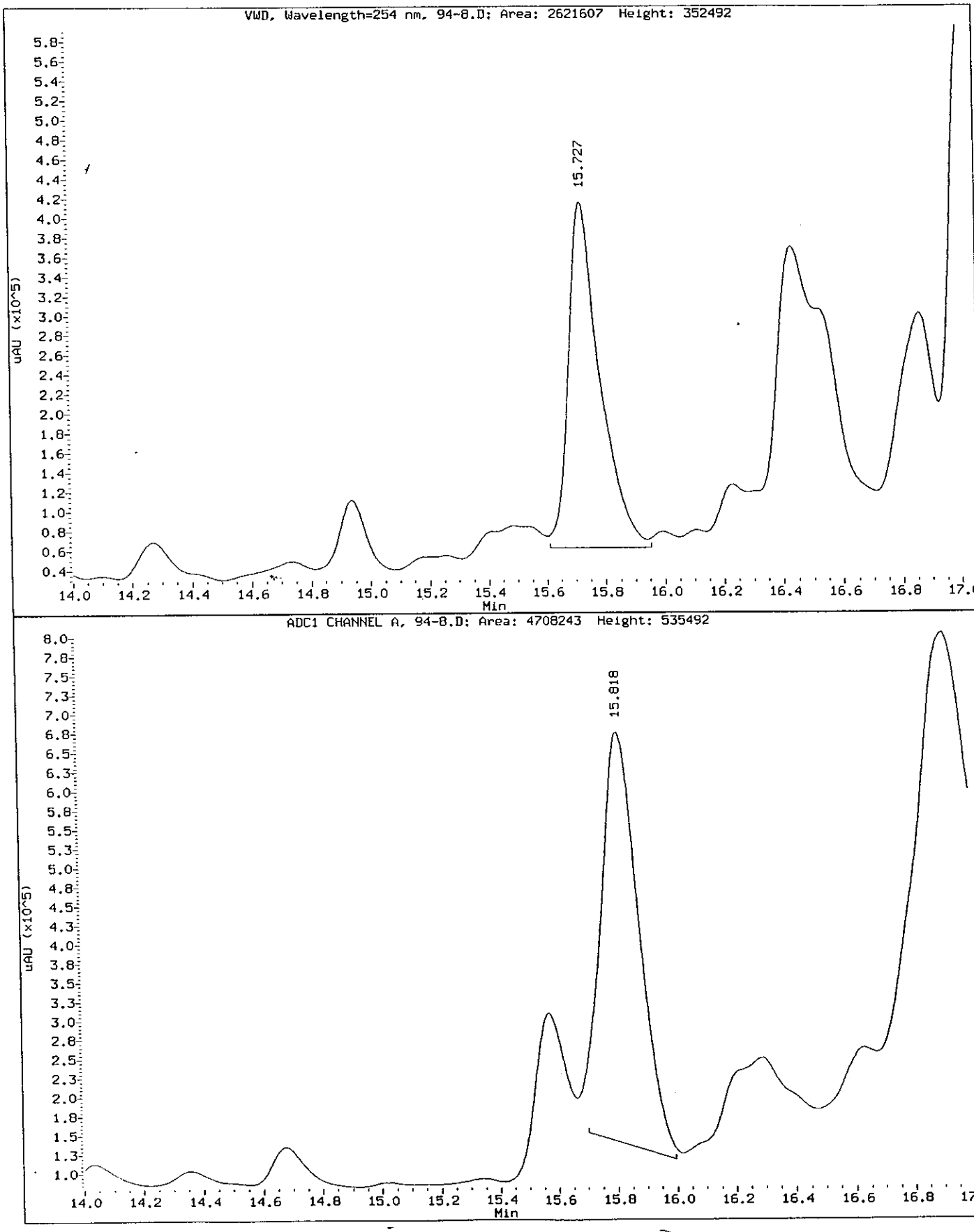
Injection Date: 29-OCT-2001 11:27
Instrument: slc02.i
Client Sample ID: 062B101S101801MS

Compound: Phenanthrene
CAS Number: 85-01-8



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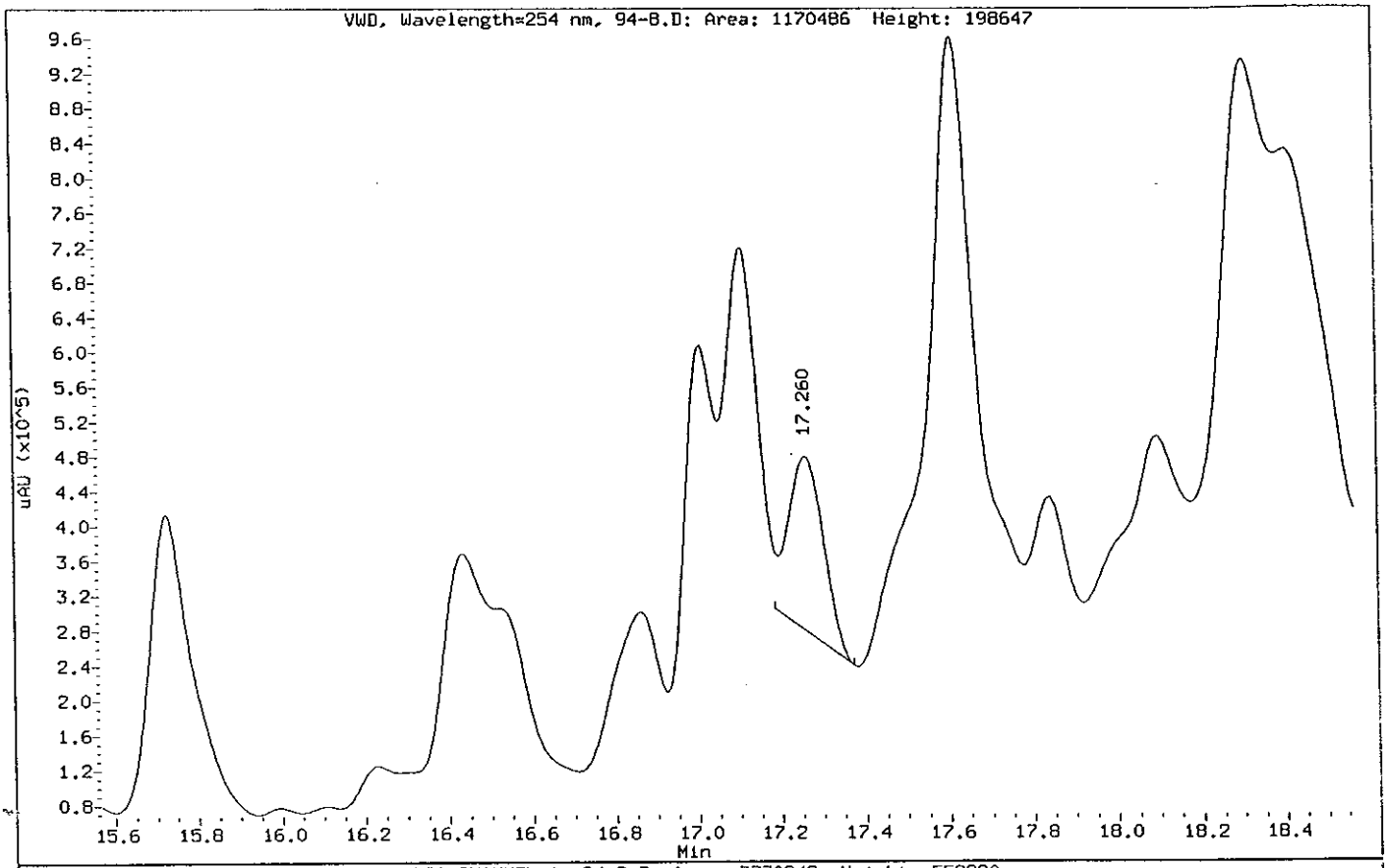
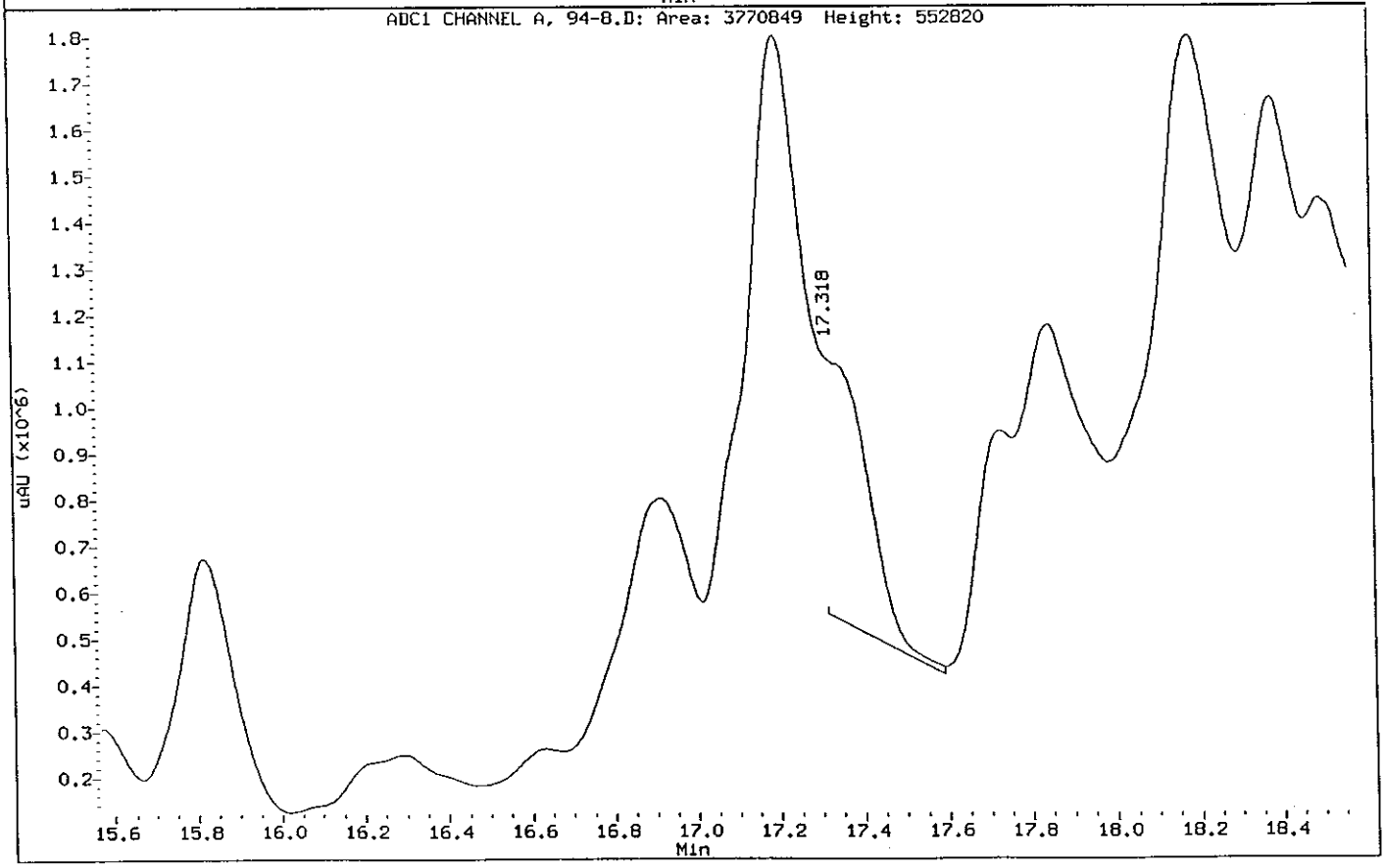
Injection Date: 29-OCT-2001 11:27
Instrument: slc02.i
Client Sample ID: 062B101S101801MS

Compound: Fluoranthene
CAS Number: 206-44-0

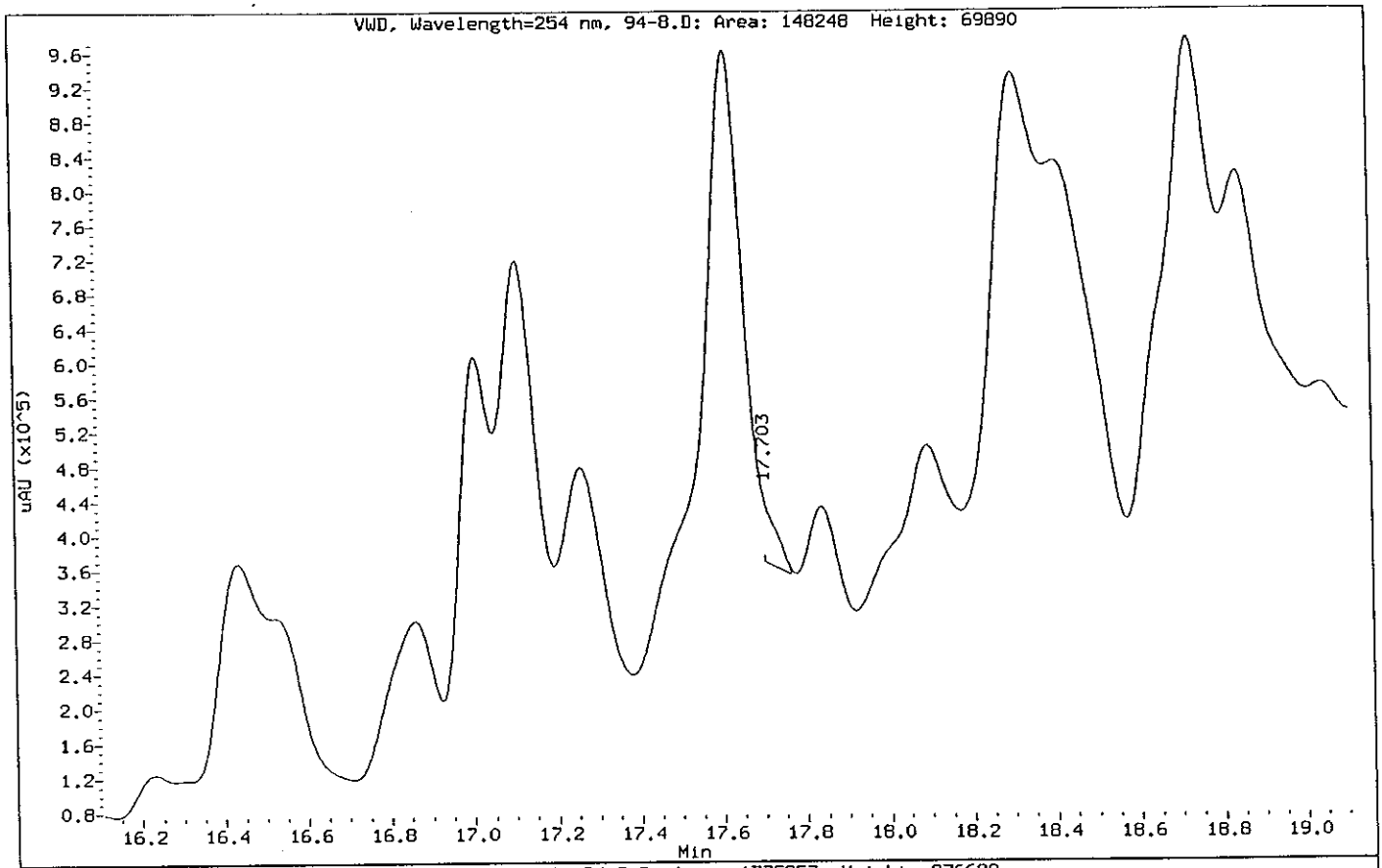


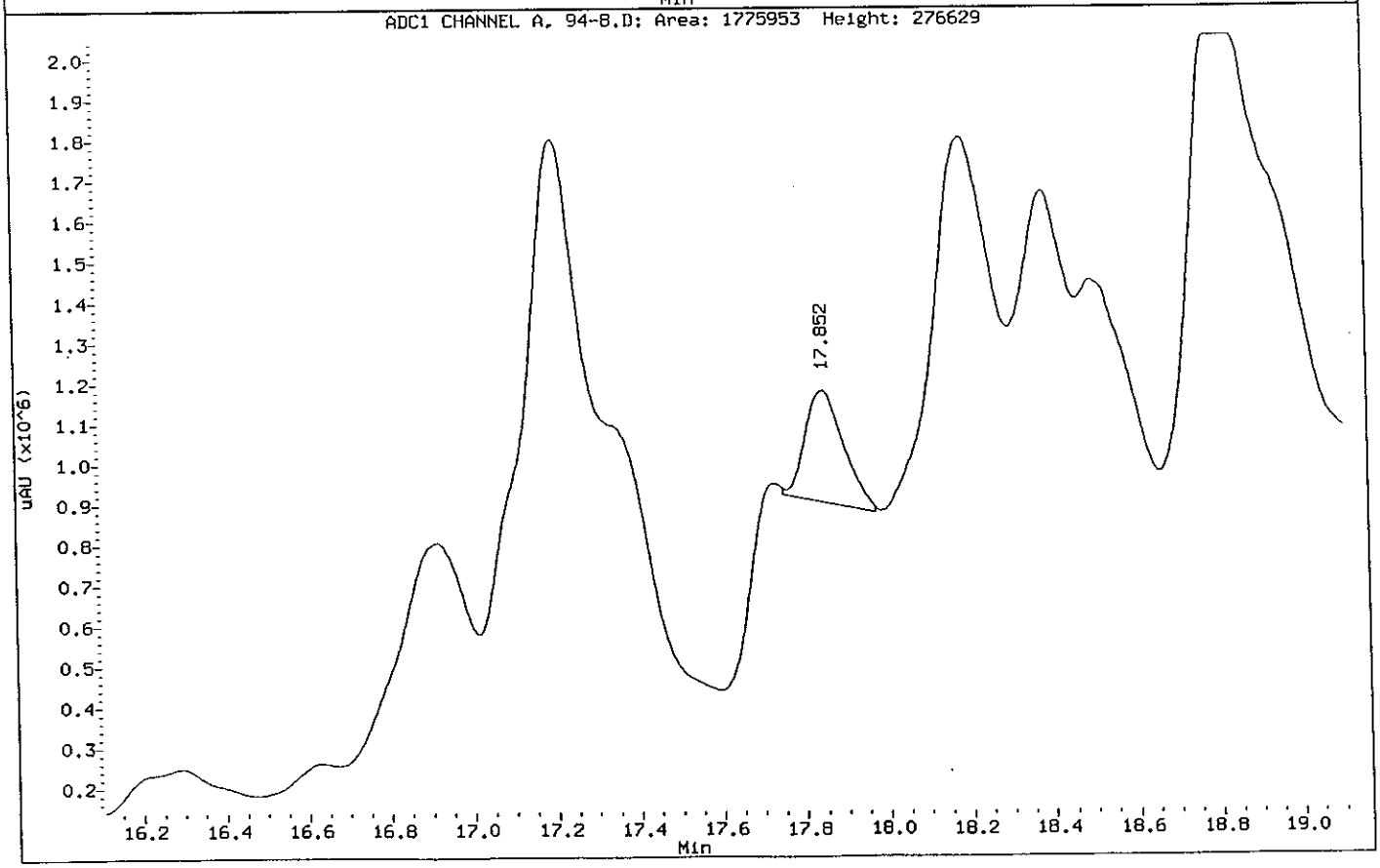


JWD

Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-8.D
Injection Date: 29-OCT-2001 11:27
Instrument: slc02.i
Client Sample ID: 062B101S101B01MS

Compound: Pyrene
CAS Number: 129-00-0





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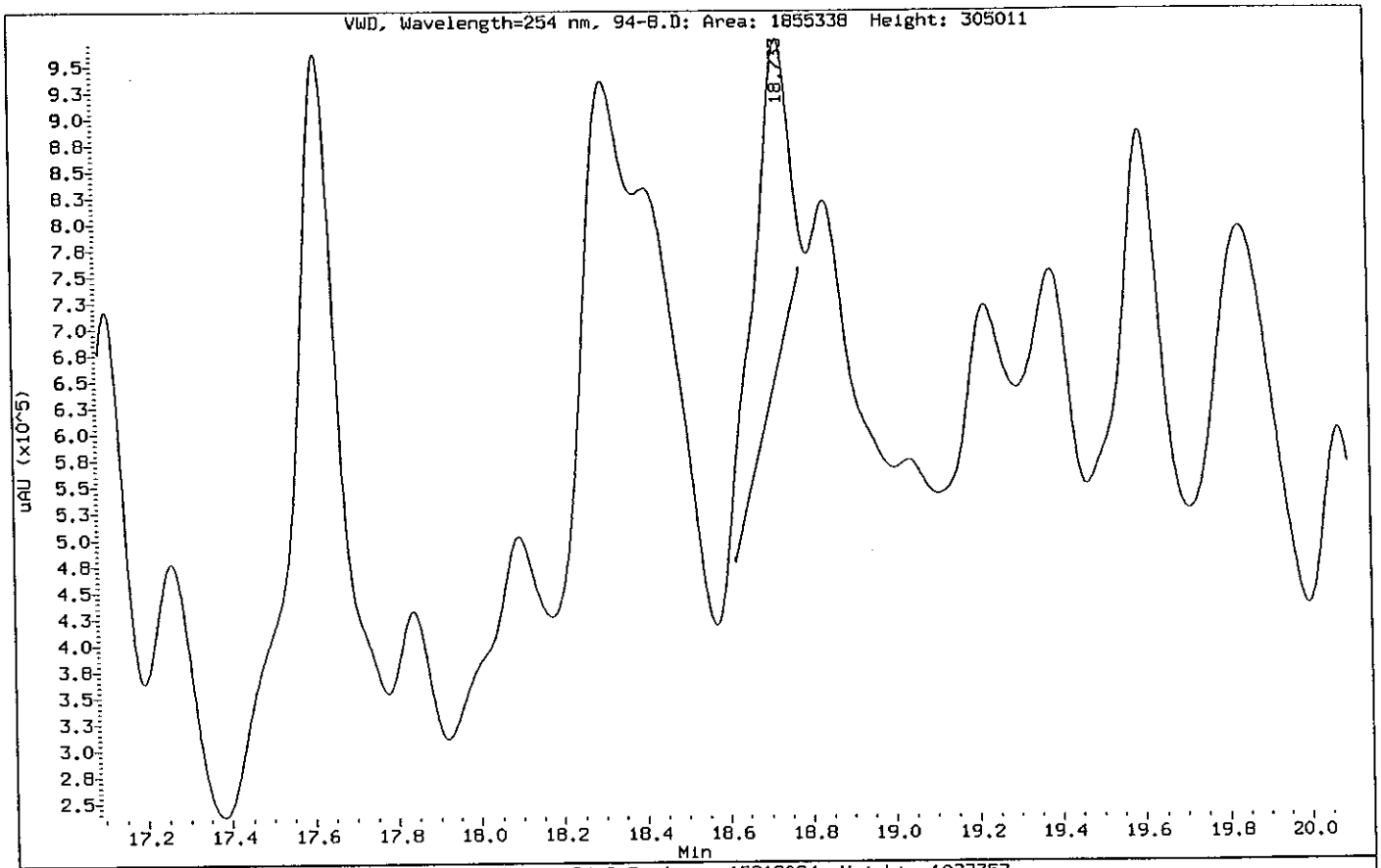
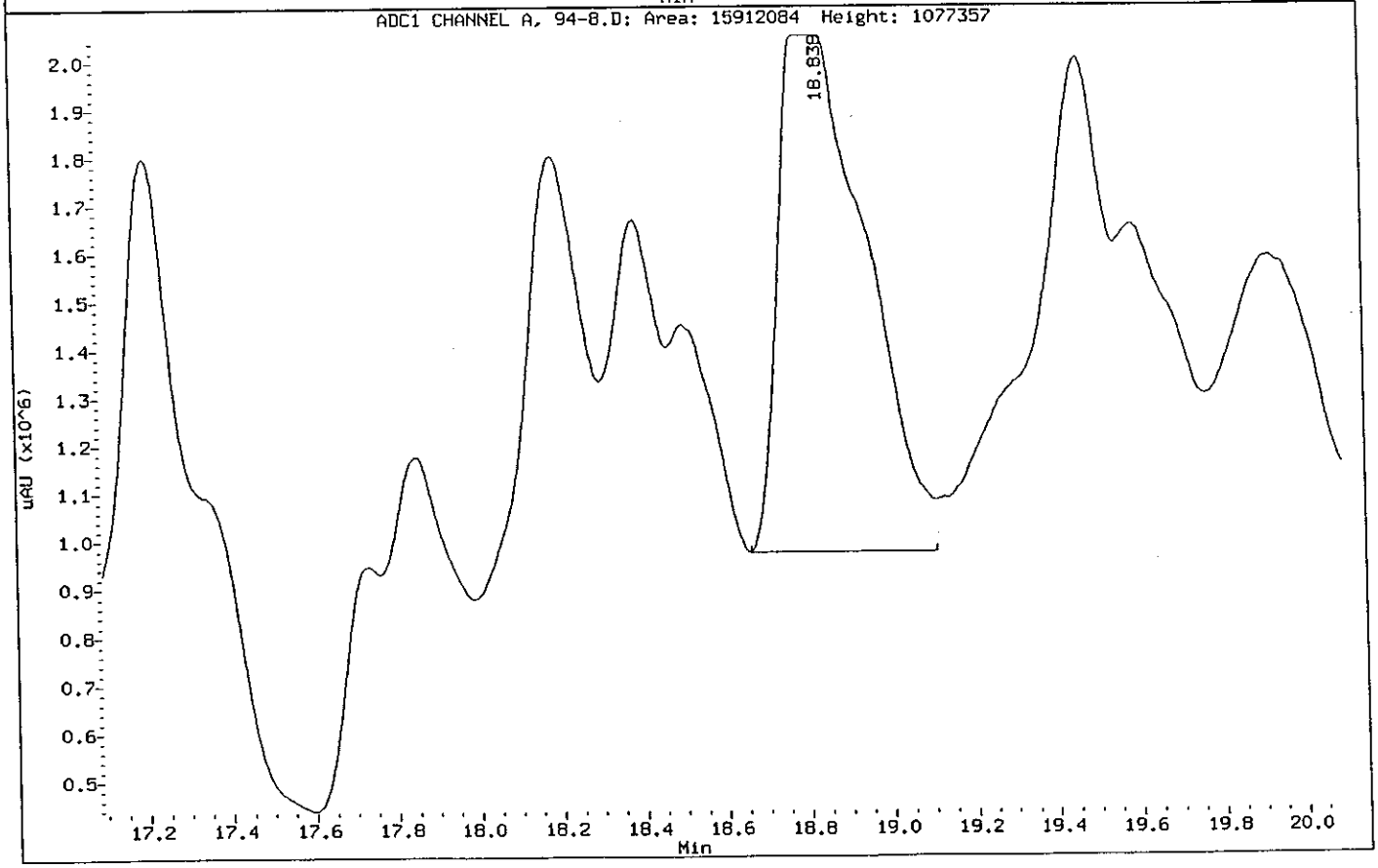
Injection Date: 29-OCT-2001 11:27
Instrument: slc02.i
Client Sample ID: 062B101S101801MS

Compound: p-Terphenyl-d14 (SURR)
CAS Number: 1718-51-0





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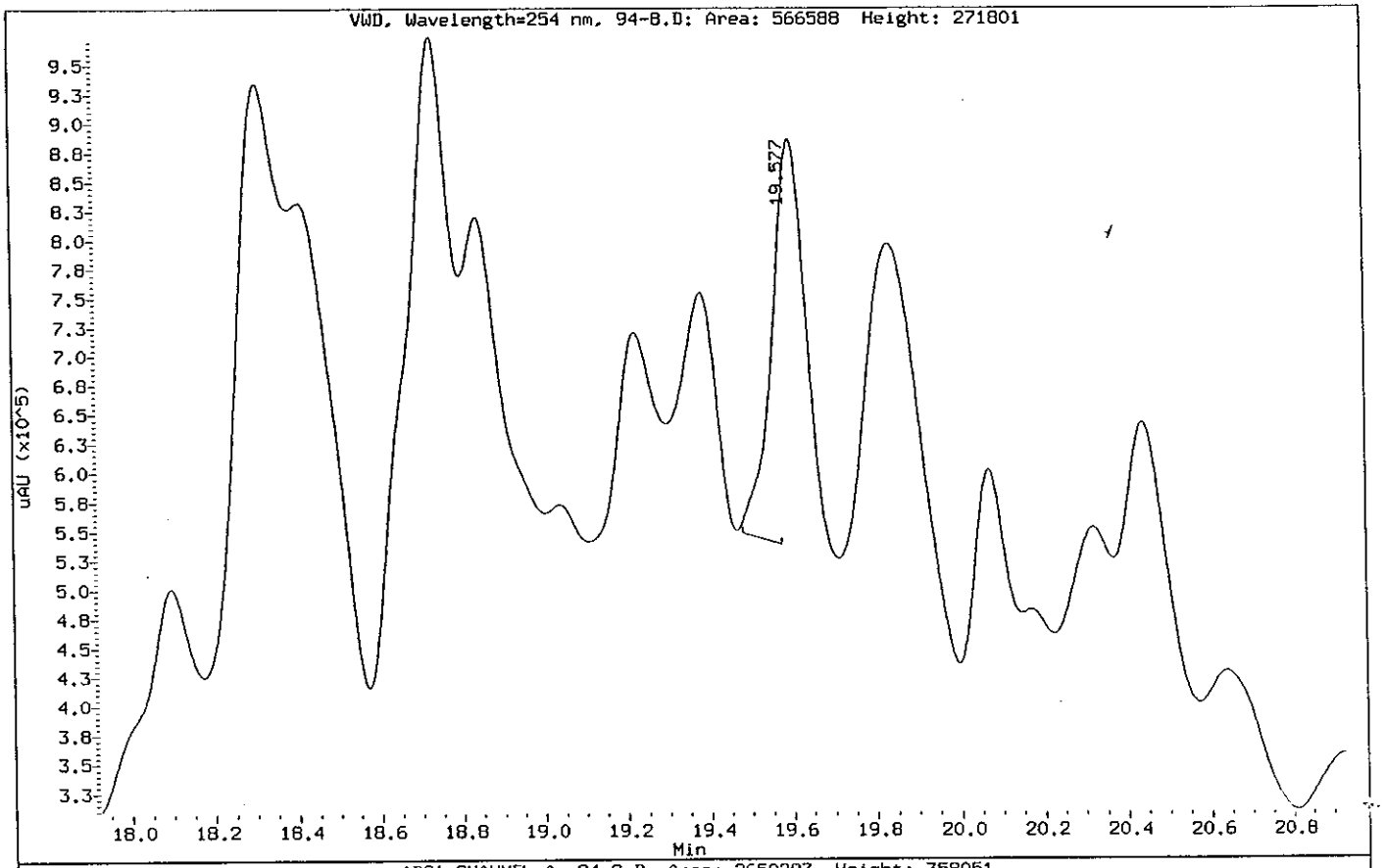
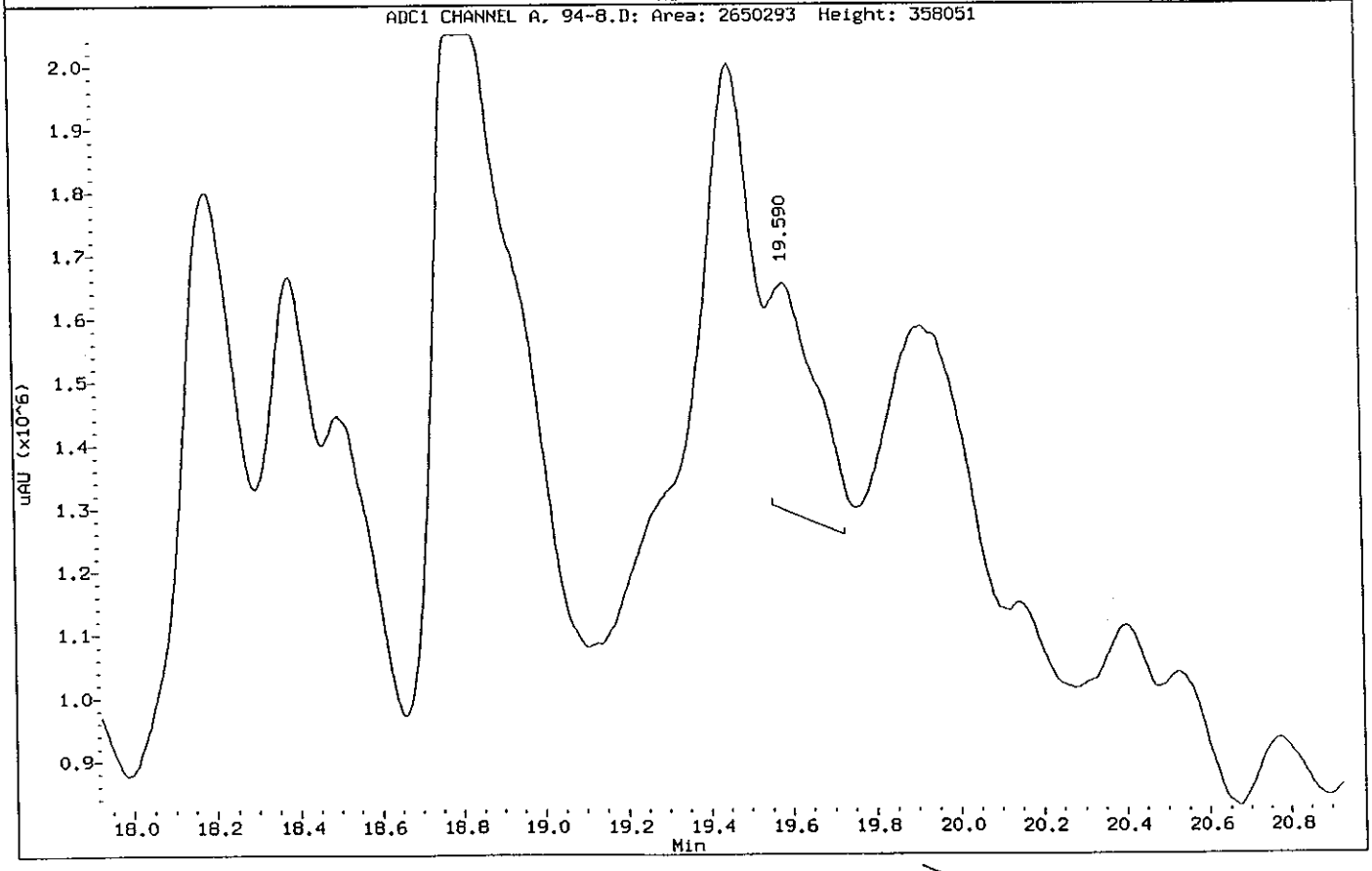
Injection Date: 29-OCT-2001 11:27
Instrument: slc02.i
Client Sample ID: 062B101S101801MS

Compound: Benzo(a)Anthracene
CAS Number: 56-55-3





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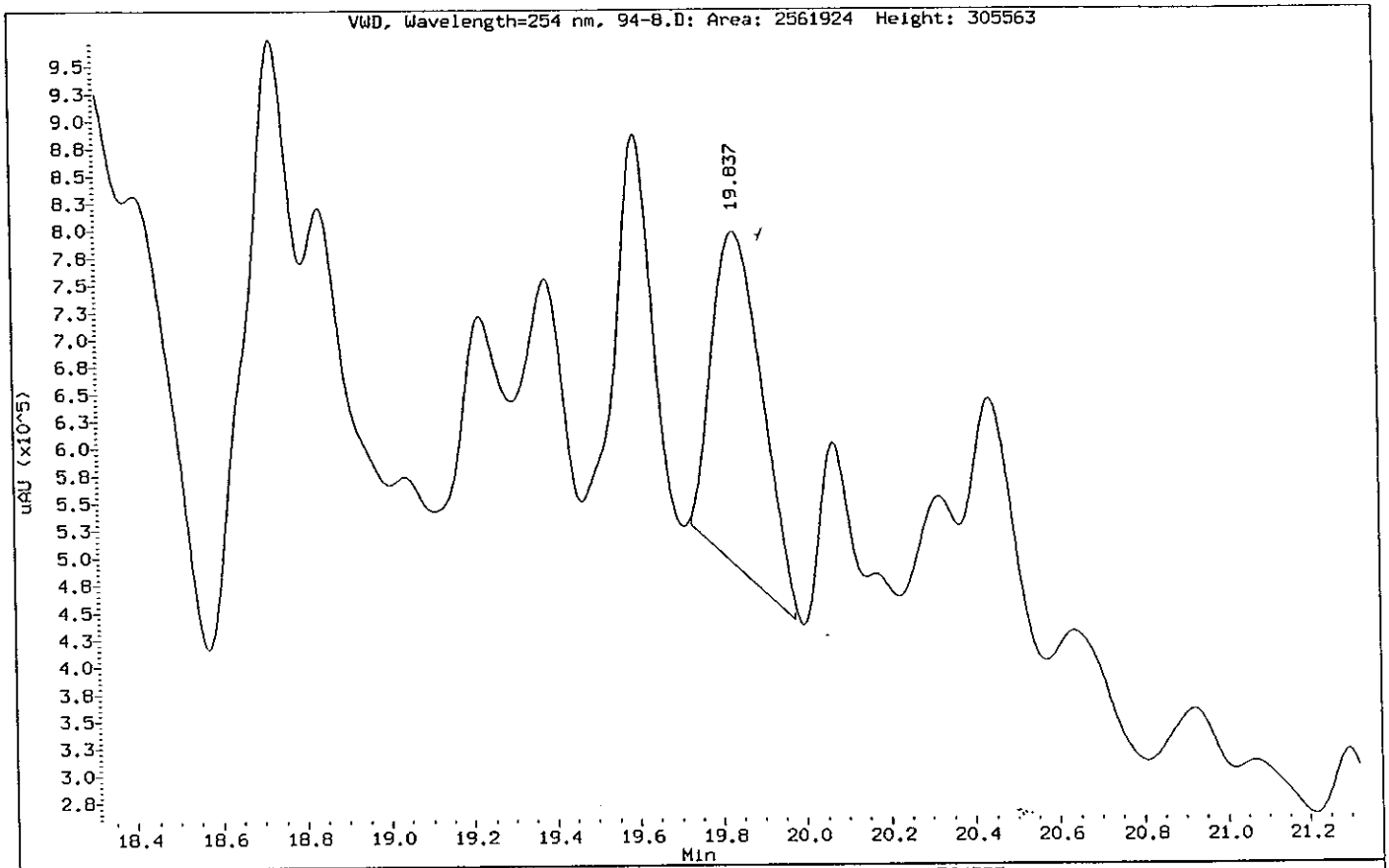
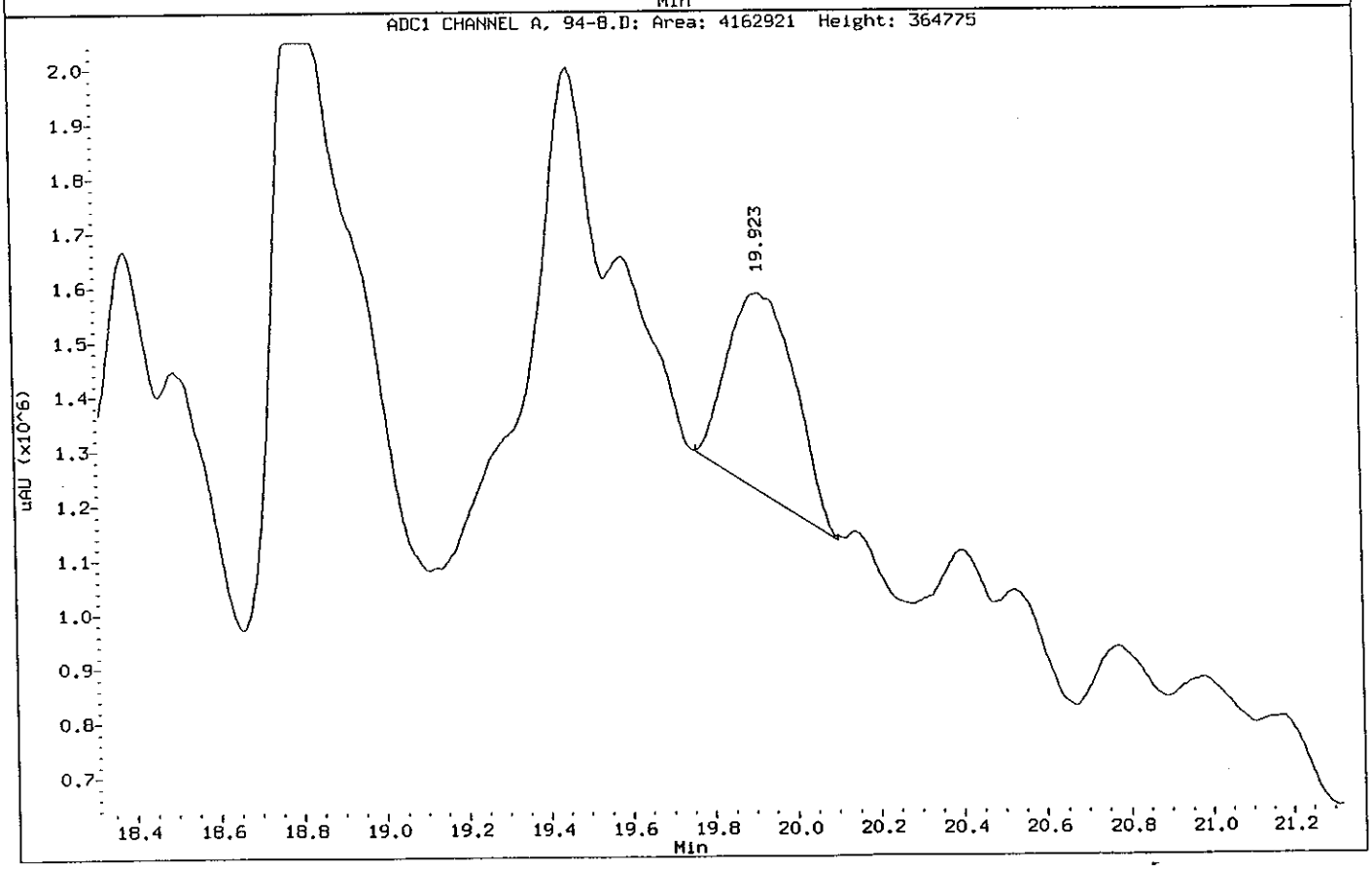
Injection Date: 29-OCT-2001 11:27
Instrument: slc02.i
Client Sample ID: 062B101S101801MS

Compound: Chrysene
CAS Number: 218-01-9





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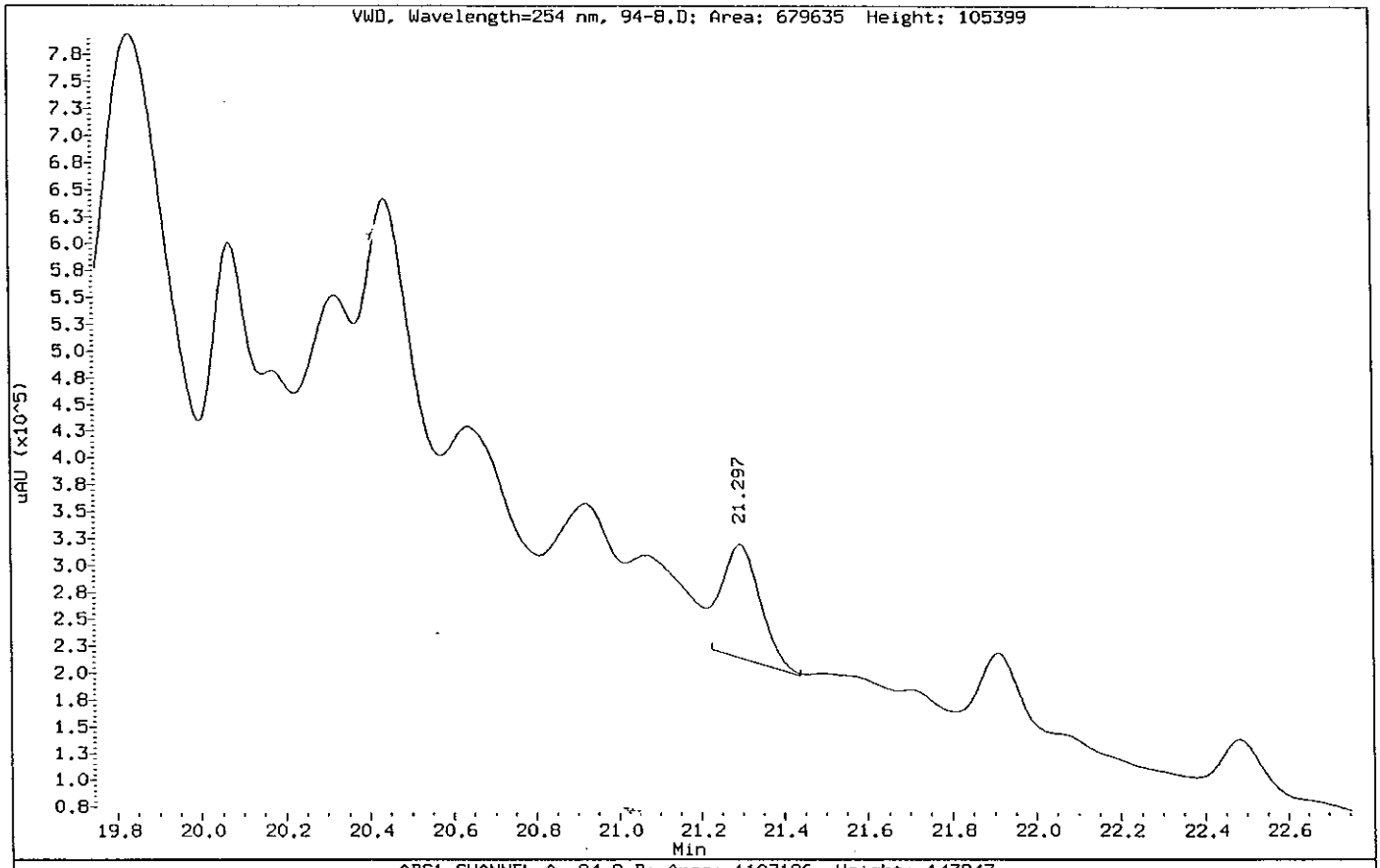
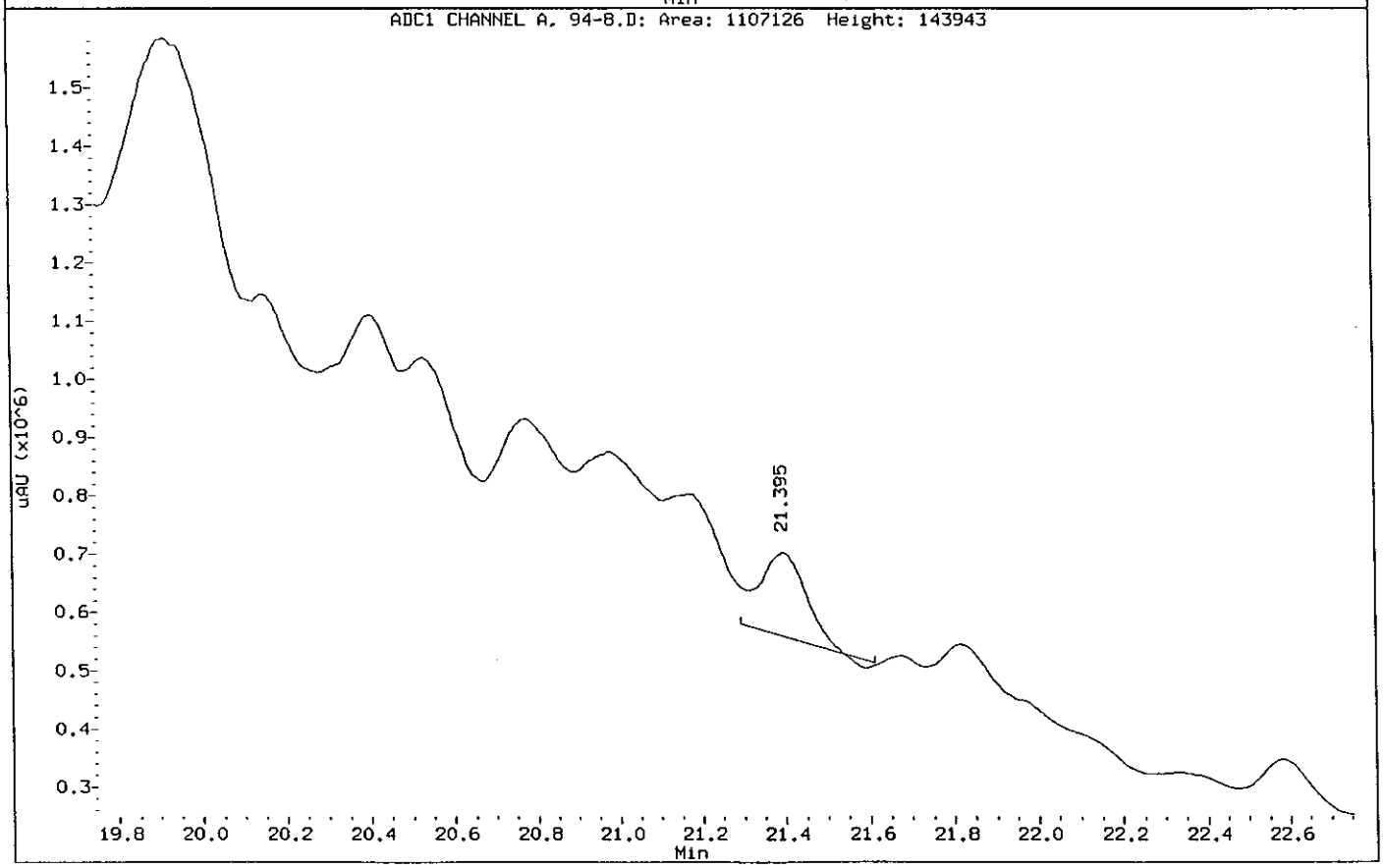
Injection Date: 29-OCT-2001 11:27
Instrument: slc02.i
Client Sample ID: 062B101S101801MS

Compound: Benzo(b)Fluoranthene
CAS Number: 205-99-2





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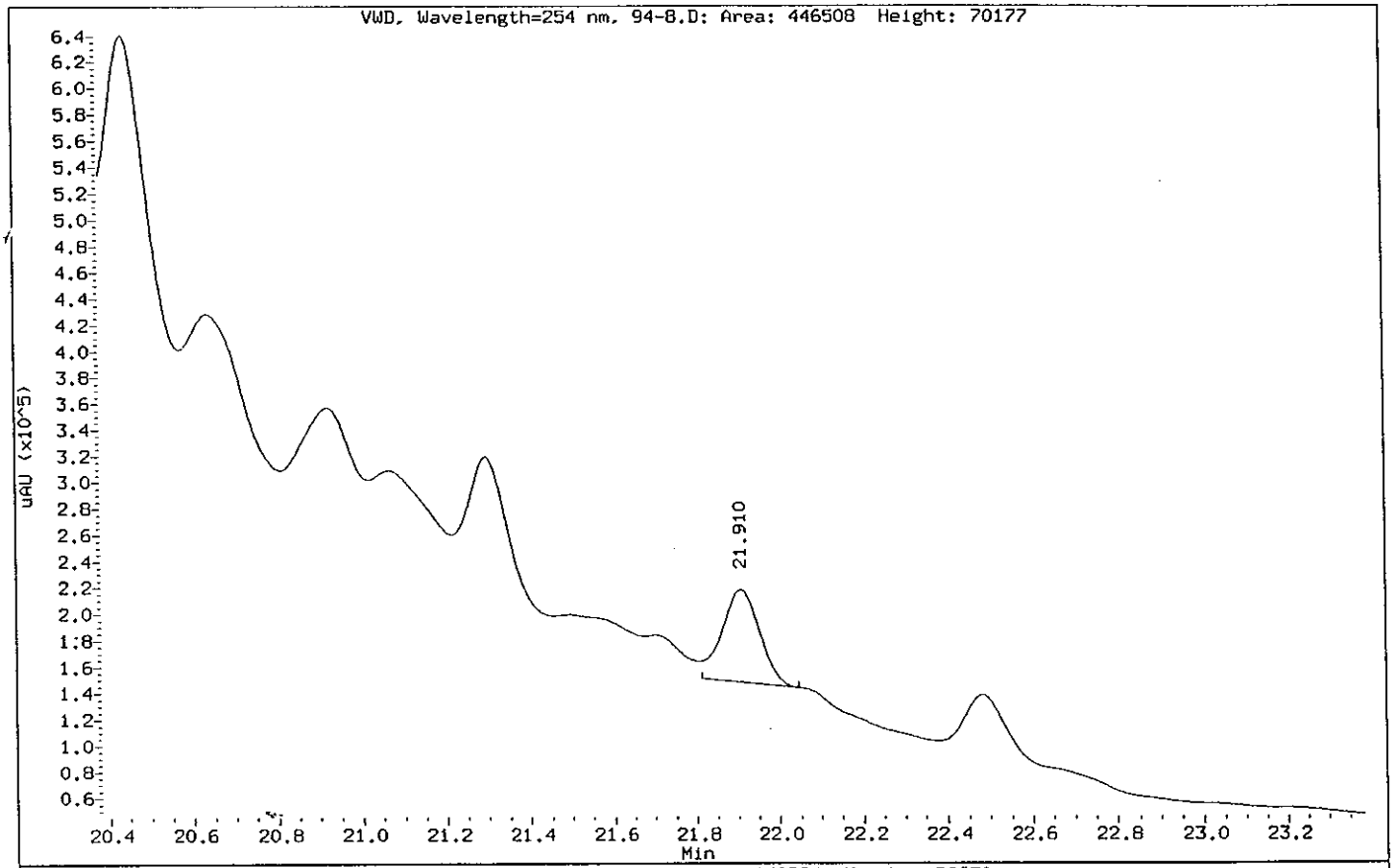
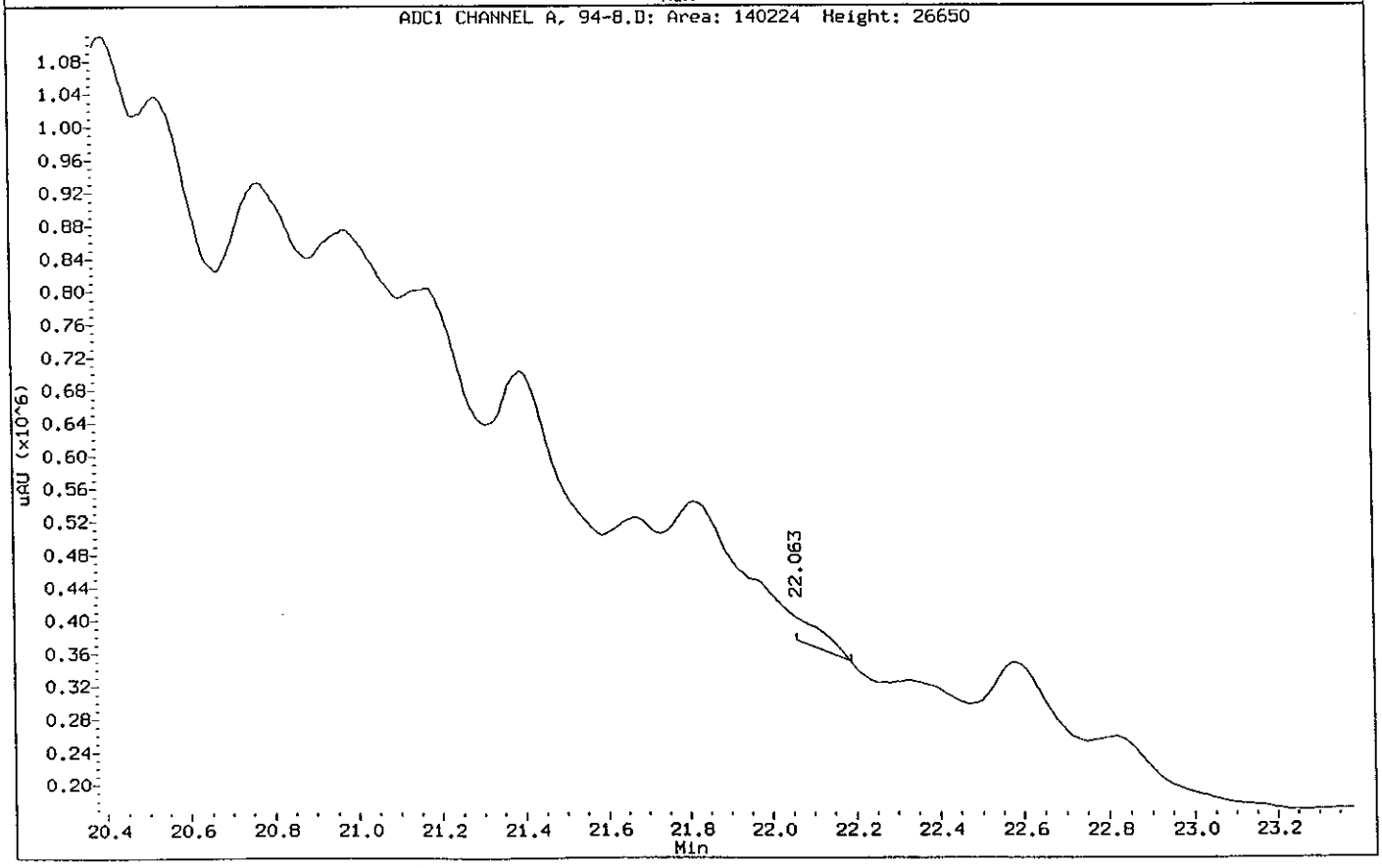
Injection Date: 29-OCT-2001 11:27
Instrument: slc02.i
Client Sample ID: 062B101S101801MS

Compound: Benzo(k)Fluoranthene
CAS Number: 207-08-9





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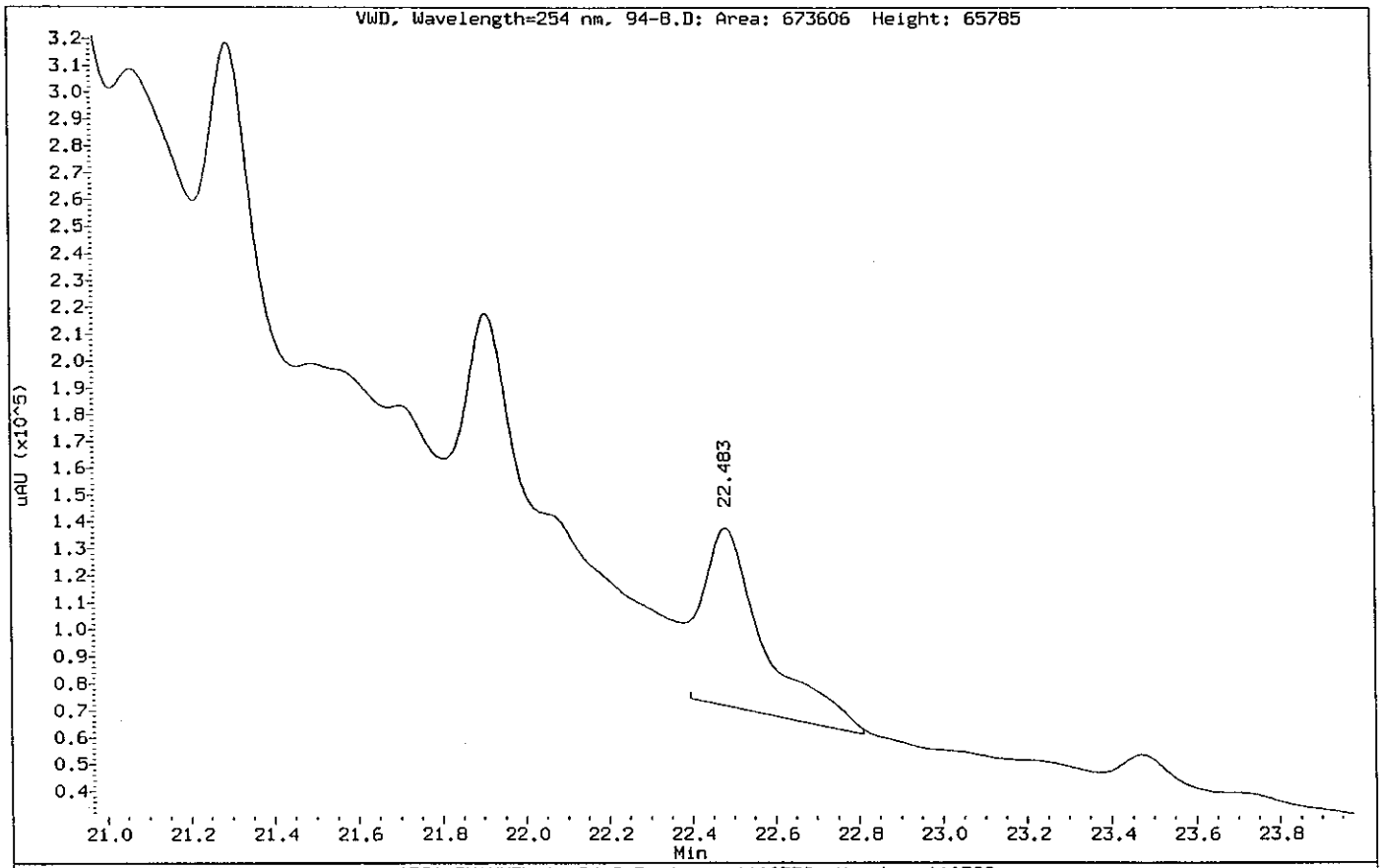
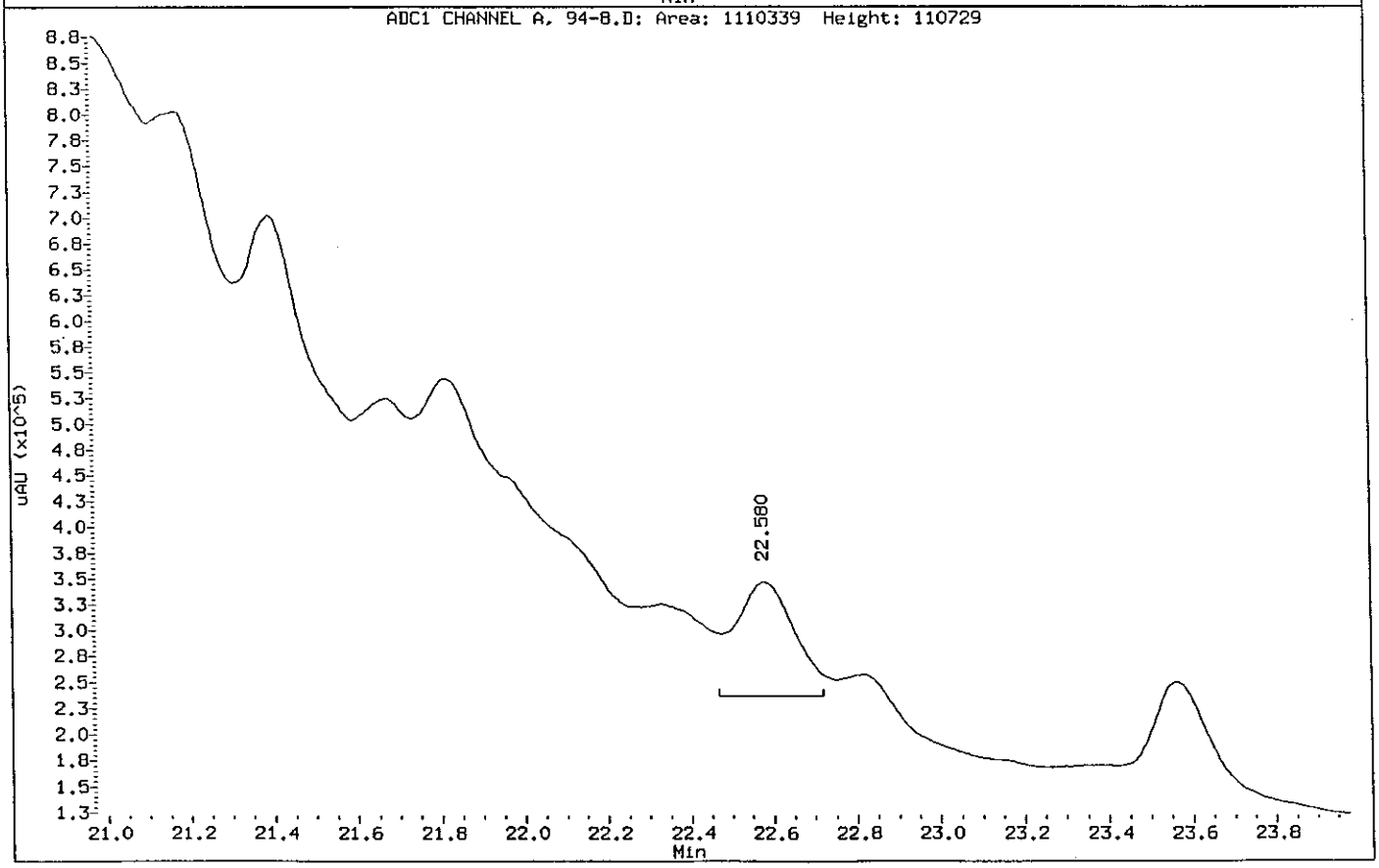
Injection Date: 29-OCT-2001 11:27
Instrument: slc02.i
Client Sample ID: 062B101S101801MS

Compound: Benzo(a)pyrene
CAS Number: 50-32-8





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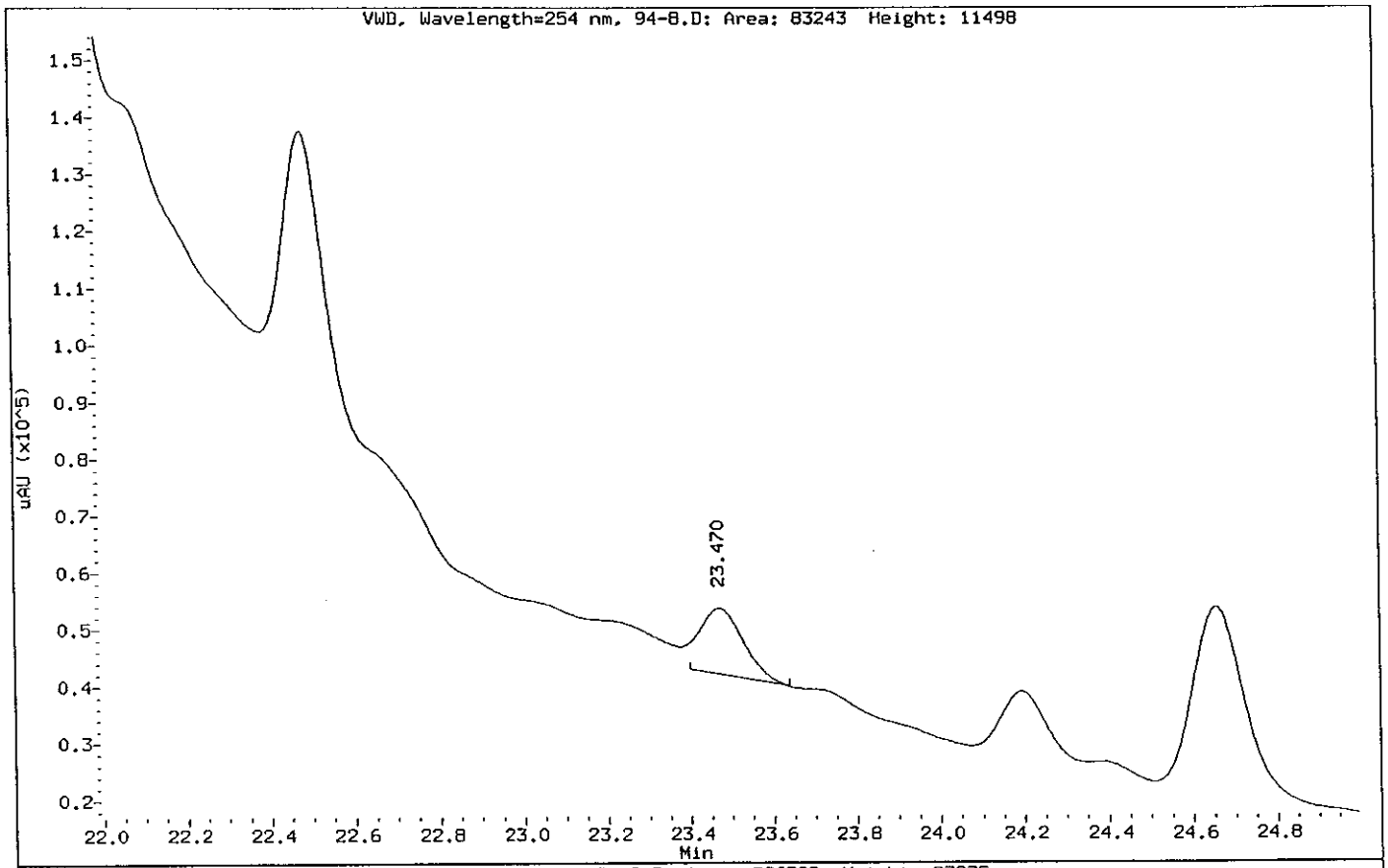
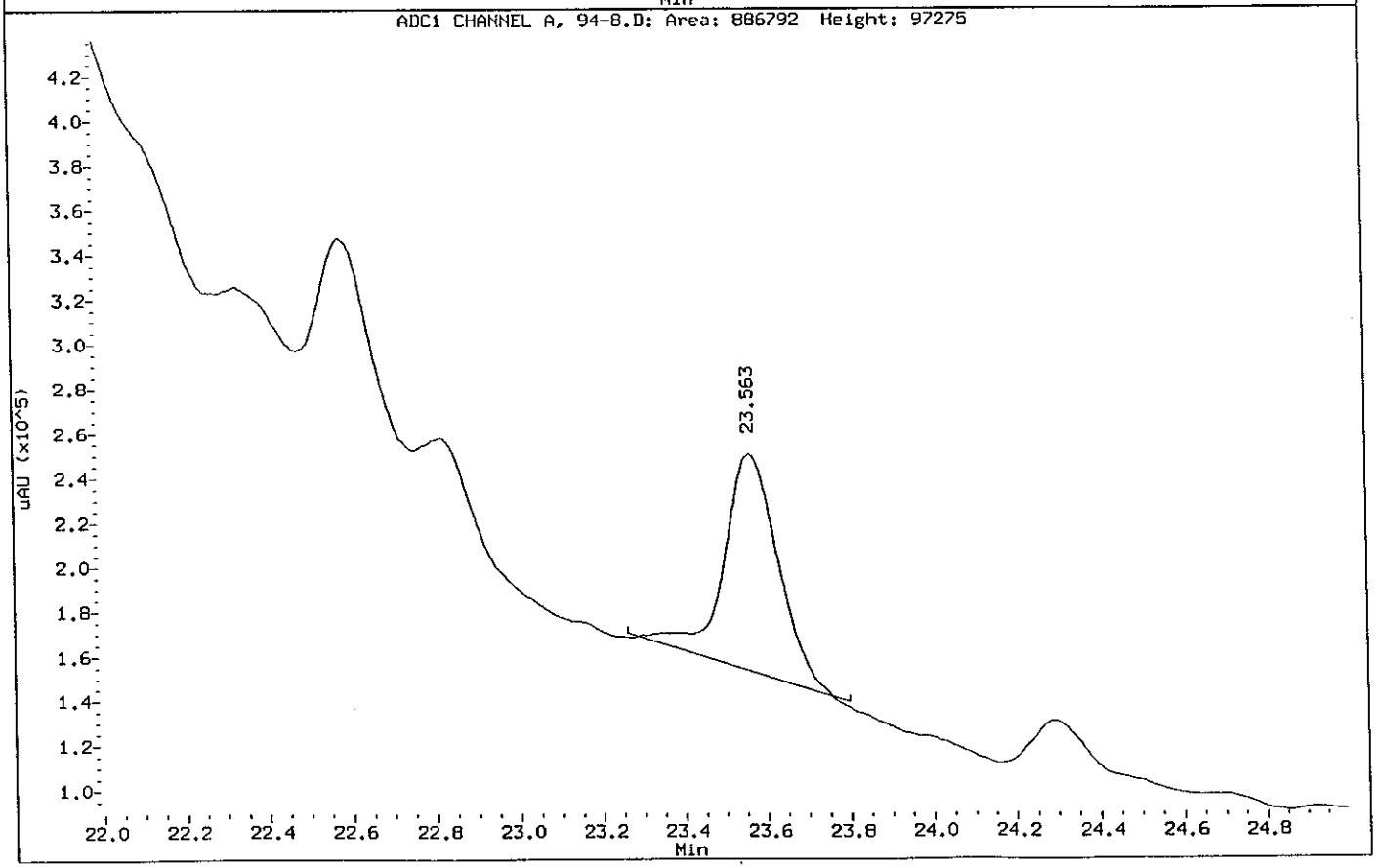
Injection Date: 29-OCT-2001 11:27
Instrument: slc02.i
Client Sample ID: 062B101S101801MS

Compound: Dibenz(ah)Anthracene
CAS Number: 53-70-3





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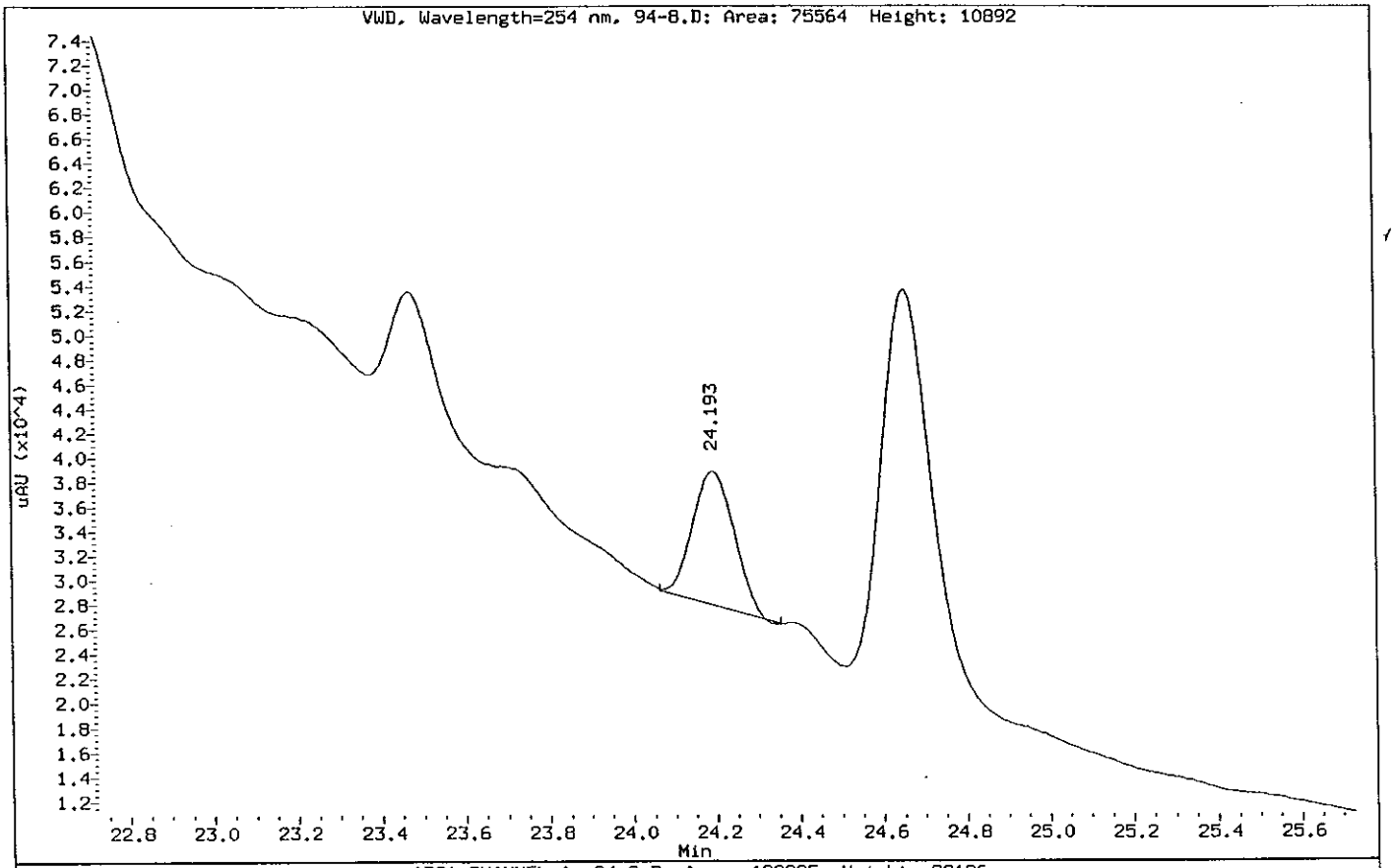
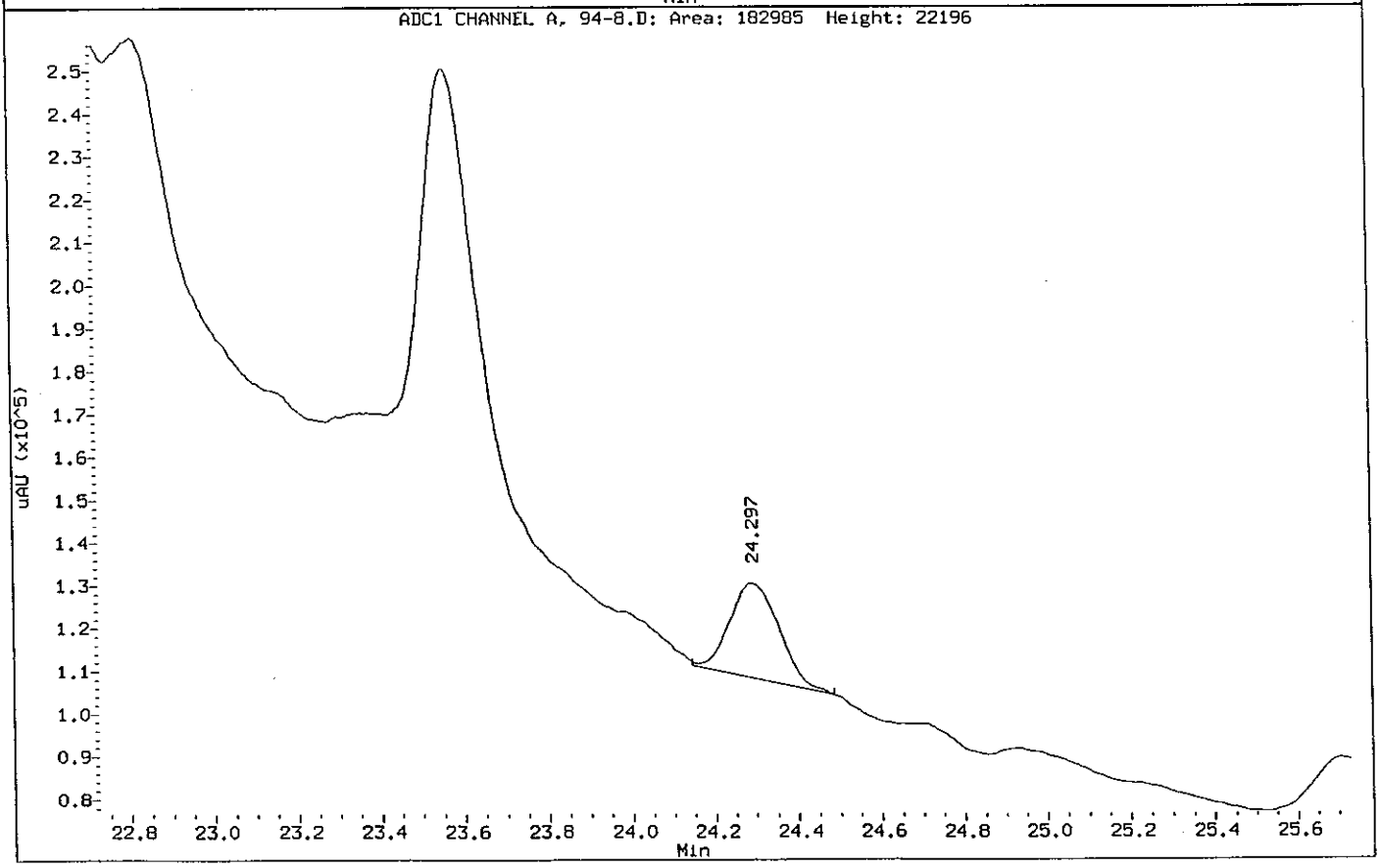
Injection Date: 29-OCT-2001 11:27
Instrument: slc02.i
Client Sample ID: 062B101S101801MS

Compound: Benzo(ghi)Perylene
CAS Number: 191-24-2





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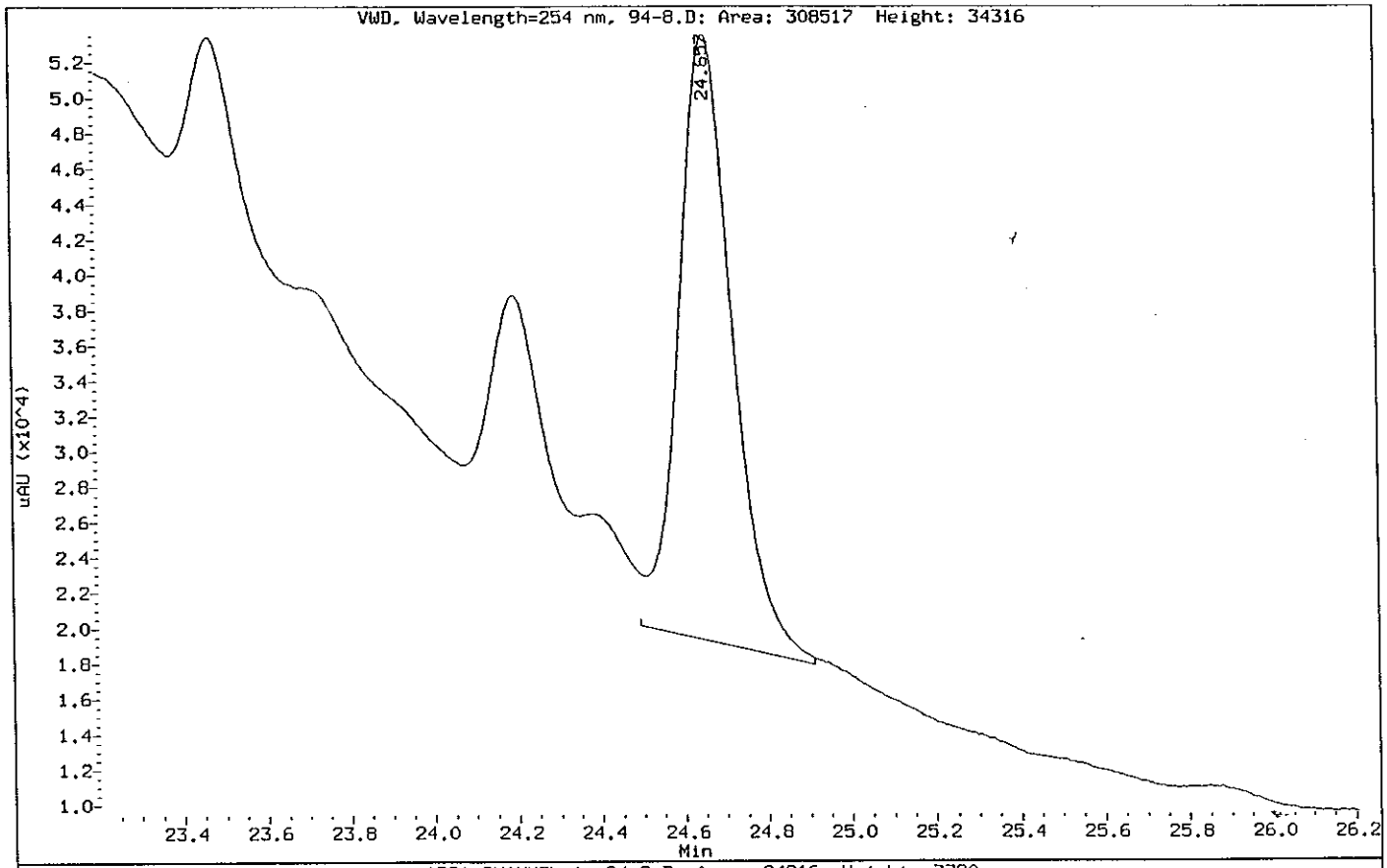
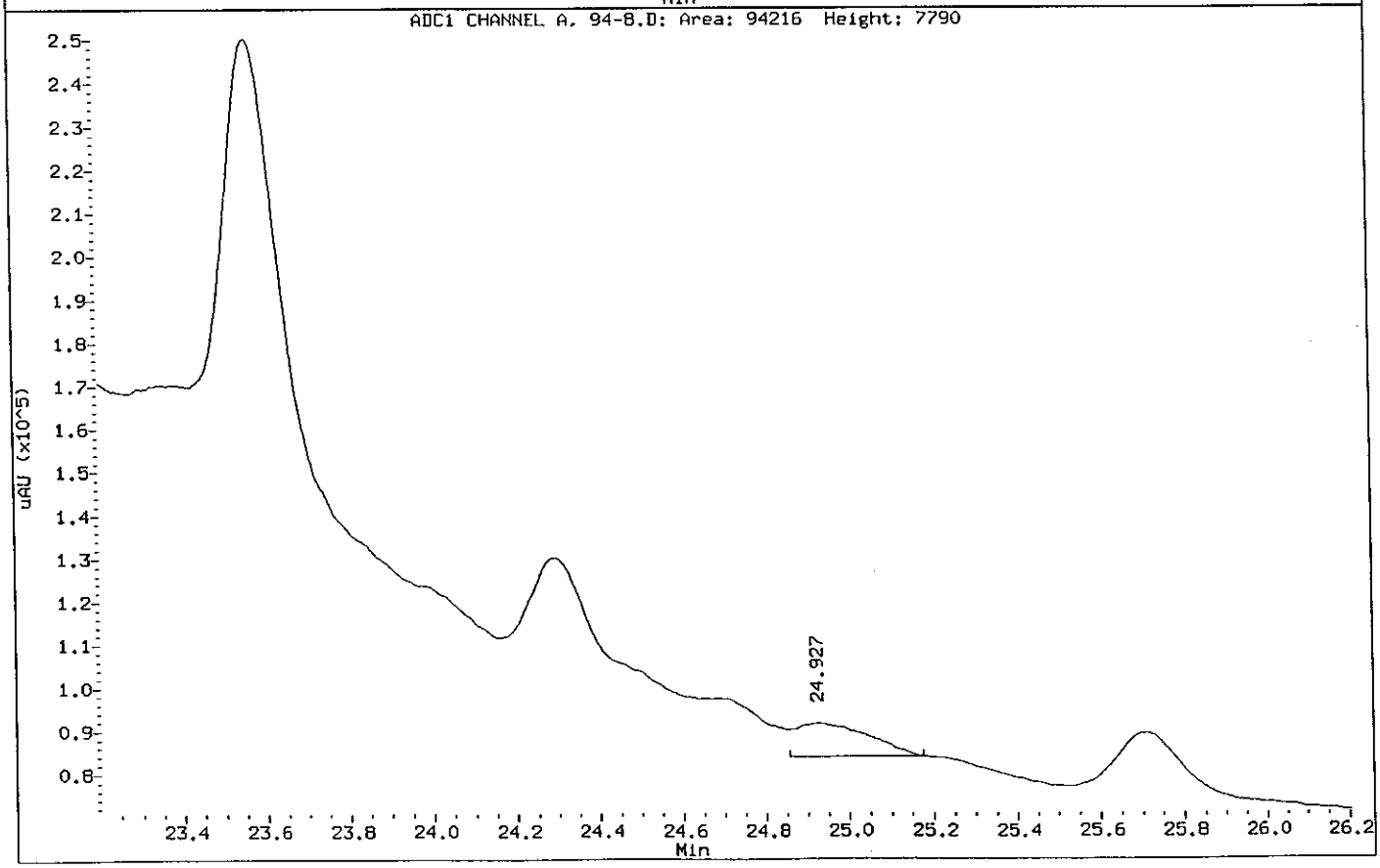
Injection Date: 29-OCT-2001 11:27
Instrument: slc02.i
Client Sample ID: 062B101S101801MS

Compound: Indeno(123cd)Pyrene
CAS Number: 193-39-5





PEL Laboratories

Data file : \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-9.D
Lab Smp Id: 211009409 Client Smp ID: 062B101S101801MSD
Inj Date : 29-OCT-2001 12:02
Operator : rood Inst ID: slc02.i
Smp Info : 211009409
Misc Info :
Comment :
Method : \\SVHPLC\ee\chem\slc02.i\L21028R1.b\8310S.m
Meth Date : 02-Nov-2001 08:36 jdonnelly Quant Type: ISTD
Cal Date : 28-OCT-2001 20:26 Cal File: PT2UGML.D
Als bottle: 8 QC Sample: MSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: navy50.sub
Target Version: 4.04 Sample Matrix: SOIL

Concentration Formula: Amt * DF * 1/((Ws*(1-(M/100)))/1000)*Vf

Name	Value	Description
DF	1.000	Dilution Factor
Ws	32.700	Extracted weight
M	11.009	% Moisture
Vf	1.000	Final Volume

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	REL RT	SIGNAL	RESPONSE	(ug/ml)	(ug/kg)	TARGET RANGE	RATIO
* 1 Carbazole (ISTD)						CAS #: 86-74-8		
11.196	10.610	(1.000)	VWD1A	545994			80.00- 120.00	100.00(M)
11.211	10.610	(1.001)	ADC1A	1944680	10.0000		652.03- 978.05	356.17
2 Naphthalene						CAS #: 91-20-3		
12.150	11.770	(1.085)	VWD1A	79878	14.4705	497	80.00- 120.00	100.00(aM)
12.223	11.770	(1.092)	ADC1A	117740	19.6823	676	82.40- 123.60	147.40
3 Acenaphthylene						CAS #: 208-96-8		
13.313	13.013	(1.189)	VWD1A	268800	66.2637	2280		(ARM)
4 1-Methyl naphthalene						CAS #: 90-12-0		
13.913	13.633	(1.243)	VWD1A	38684	11.6203	399	80.00- 120.00	100.00(M)
14.001	13.633	(1.251)	ADC1A	132867	10.7849	371	296.60- 444.90	343.47

RT	EXP RT	REL RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	CONCENTRATIONS FINAL (ug/kg)	TARGET RANGE	RATIO
5 2-Methyl naphthalene						CAS #: 91-57-6		
14.250	13.973	(1.273)	VWD1A	170440	36.1612	1240	80.00- 120.00	100.00(ARM)
14.330	13.973	(1.280)	ADC1A	104253	10.0055	344	191.55- 287.32	61.17
6 Acenaphthene						CAS #: 83-32-9		
14.606	14.310	(1.305)	VWD1A	25818	12.0861	415	80.00- 120.00	100.00(M)
14.656	14.310	(1.309)	ADC1A	362905	14.8218	509	964.12-1446.17	1405.60
7 Fluorene						CAS #: 86-73-7		
14.923	14.680	(1.333)	VWD1A	489299	19.8426	682	80.00- 120.00	100.00(RM)
15.003	14.680	(1.340)	ADC1A	52064	17.4311	599	9.06- 13.59	10.64
8 Phenanthrene						CAS #: 85-01-8		
15.713	15.500	(1.403)	VWD1A	2554054	37.2359	1280	80.00- 120.00	100.00(ARM)
15.808	15.500	(1.412)	ADC1A	4597828	70.6348	2430	78.58- 117.87	180.02
10 Fluoranthene						CAS #: 206-44-0		
17.250	17.066	(1.541)	VWD1A	993510	60.5892	2080	80.00- 120.00	100.00(ARM)
17.346	17.066	(1.549)	ADC1A	2057444			6.36- 9.54	207.09
11 Pyrene						CAS #: 129-00-0		
17.690	17.606	(1.580)	VWD1A	128153	10.1831	350	80.00- 120.00	100.00(M)
17.836	17.606	(1.593)	ADC1A	1774608	10.5561	363	930.64-1395.96	1384.75
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.726	18.593	(1.673)	VWD1A	2912956	199.802	6870	80.00- 120.00	100.00(ARM)
18.835	18.593	(1.682)	ADC1A	15940520	39.9463	1370	2246.35-3369.53	547.23
13 Benzo(a)Anthracene						CAS #: 56-55-3		
19.556	19.426	(1.747)	VWD1A	365536	9.50241	326	80.00- 120.00	100.00(M)
19.525	19.426	(1.744)	ADC1A	2873608	6.95057	239	881.58-1322.37	786.13
14 Chrysene						CAS #: 218-01-9		
19.833	19.820	(1.771)	VWD1A	2771870	50.4343	1730	80.00- 120.00	100.00(ARM)
19.911	19.820	(1.778)	ADC1A	5494204	41.9743	1440	190.14- 285.21	198.21
15 Benzo(b)Fluoranthene						CAS #: 205-99-2		
21.293	21.253	(1.902)	VWD1A	742035	17.4986	601	80.00- 120.00	100.00(RM)
21.395	21.253	(1.911)	ADC1A	1776316	159.986	5500	20.85- 31.28	239.38
16 Benzo(k)Fluoranthene						CAS #: 207-08-9		
21.910	21.883	(1.957)	VWD1A	429271	13.2435	455	80.00- 120.00	100.00(M)
22.068	21.883	(1.971)	ADC1A	206846	9.76171	335	52.76- 79.15	48.19
17 Benzo(a)pyrene						CAS #: 50-32-8		
22.483	22.476	(2.008)	VWD1A	668784	17.6956	608	80.00- 120.00	100.00(RM)

RT	EXP RT	REL RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	CONCENTRATIONS FINAL (ug/kg)	TARGET RANGE	RATIO
17 Benzo(a)pyrene (continued)								
22.581	22.476	(2.017)	ADC1A	686758	10.8772	374	138.13- 207.19	102.69
18 Dibenz(ah)Anthracene						CAS #: 53-70-3		
23.476	23.493	(2.097)	VWD1A	77192	9.19329	316	80.00- 120.00	100.00(M)
23.568	23.493	(2.105)	ADC1A	886248	8.83729	304	949.04-1423.56	1148.11
19 Benzo(ghi)Perylene						CAS #: 191-24-2		
24.196	24.226	(2.161)	VWD1A	75795	5.30257	182	80.00- 120.00	100.00(M)
24.295	24.226	(2.170)	ADC1A	146938	5.07527	174	155.32- 232.98	193.86
20 Indeno(123cd)Pyrene						CAS #: 193-39-5		
24.660	24.703	(2.202)	VWD1A	271466	7.53289	259	80.00- 120.00	100.00(M)
24.681	24.703	(2.204)	ADC1A	41425			0.00- 0.00	15.26

QC Flag Legend

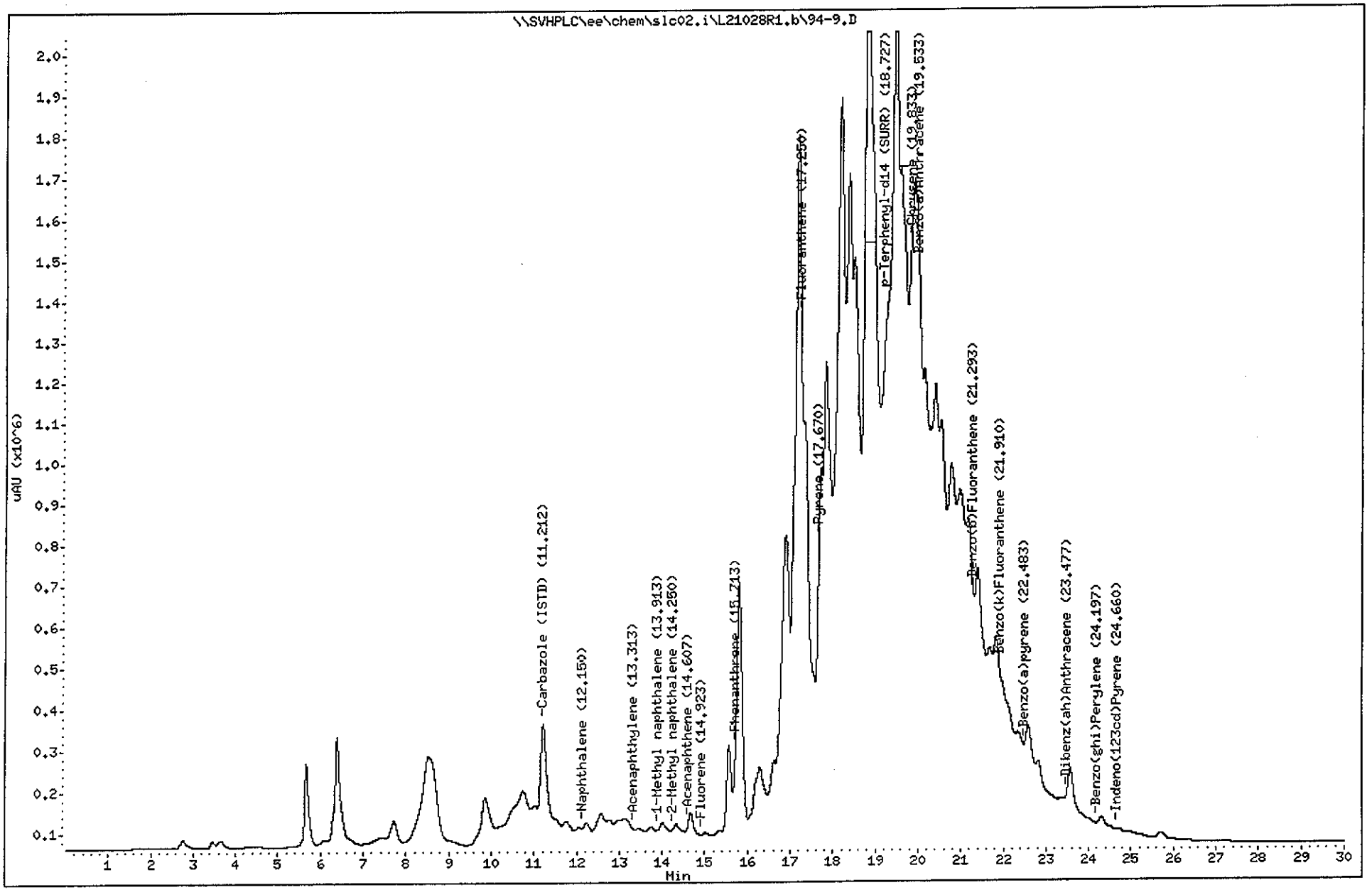
a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-9.D
Date : 29-OCT-2001 12:02
Client ID: 062B101S101801MSD
Sample Info: 211009409

Instrument: slc02.i

Operator: rood
Column diameter: 4.60

Column phase: Vydac201TP54



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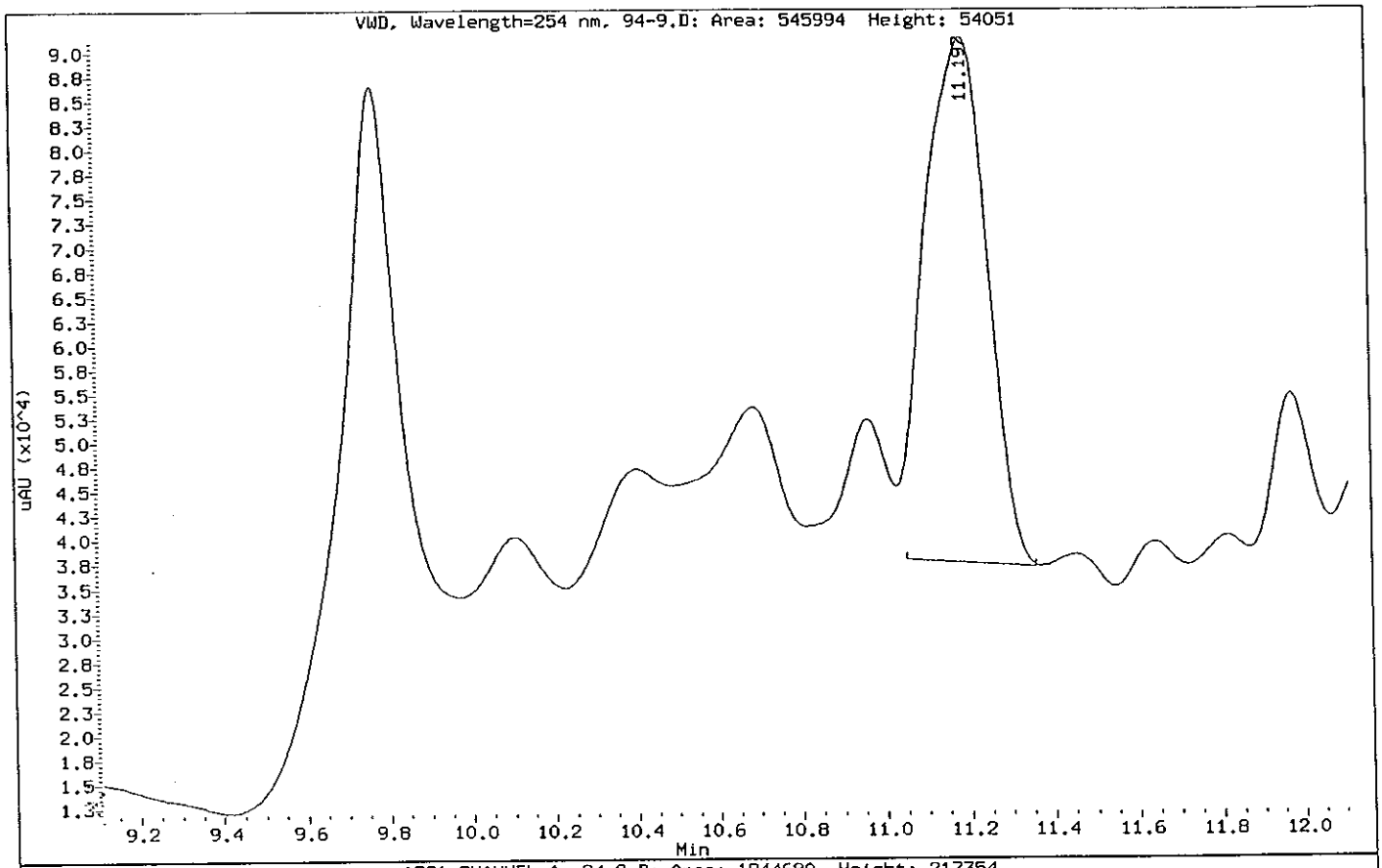
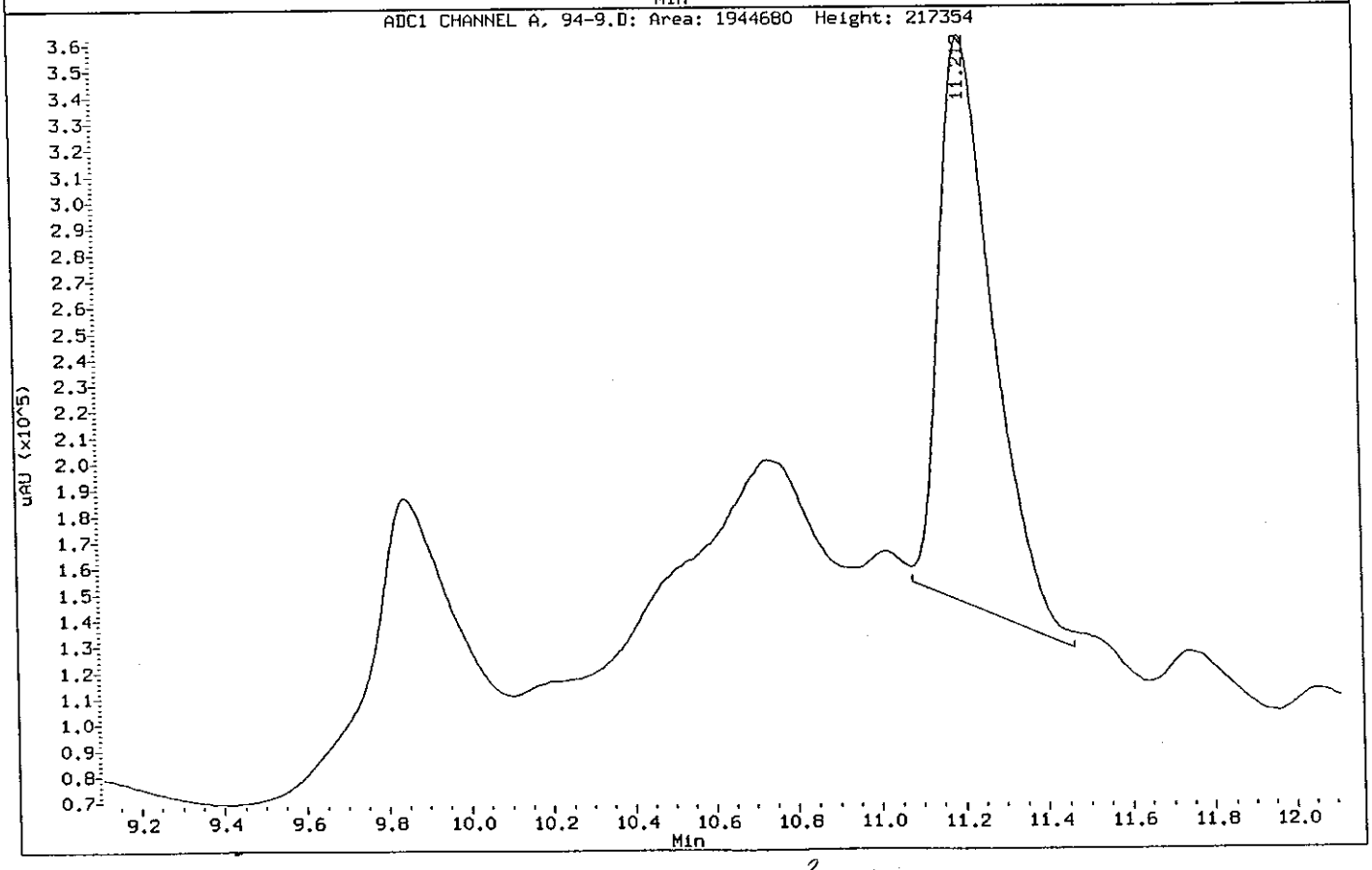
Injection Date: 29-OCT-2001 12:02
Instrument: slc02.i
Client Sample ID: 062B101S101801MSD

Compound: Carbazole (ISTD)
CAS Number: 86-74-8





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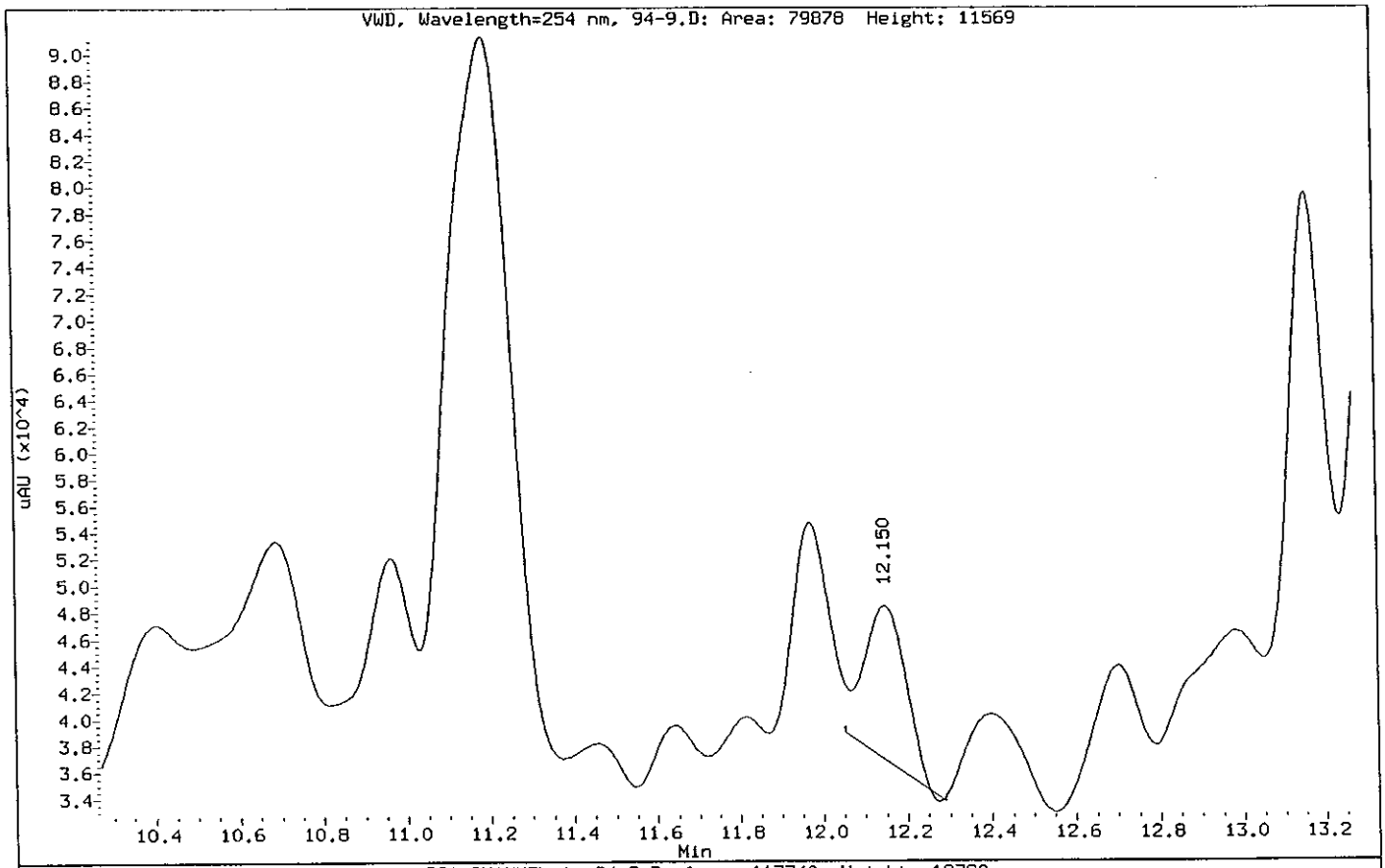
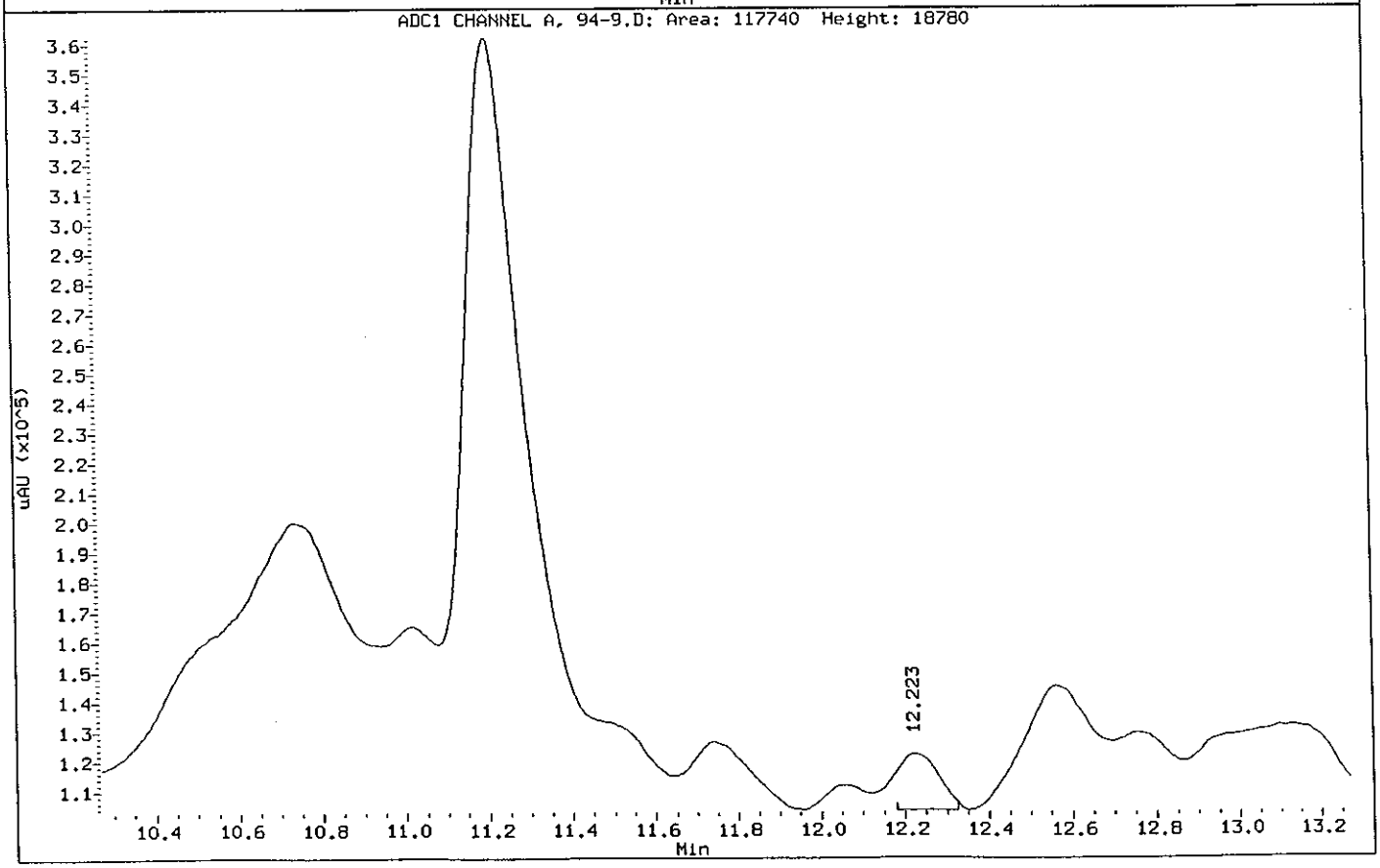
Injection Date: 29-OCT-2001 12:02
Instrument: slc02.i
Client Sample ID: 062B101S101801MSD

Compound: Naphthalene
CAS Number: 91-20-3





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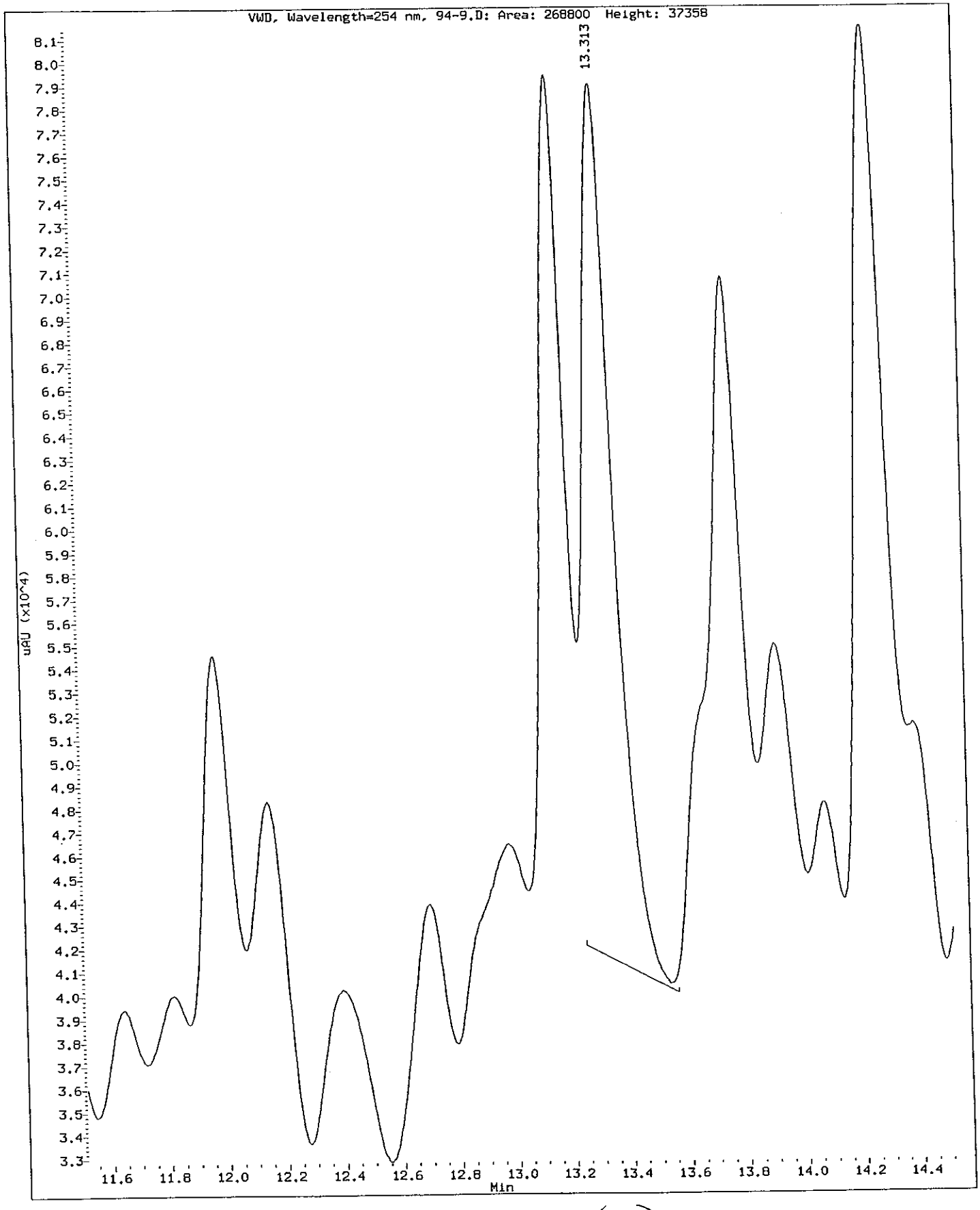
Injection Date: 29-OCT-2001 12:02
Instrument: slc02.i
Client Sample ID: 062B101S101801MSD

Compound: Acenaphthylene
CAS Number: 208-96-8



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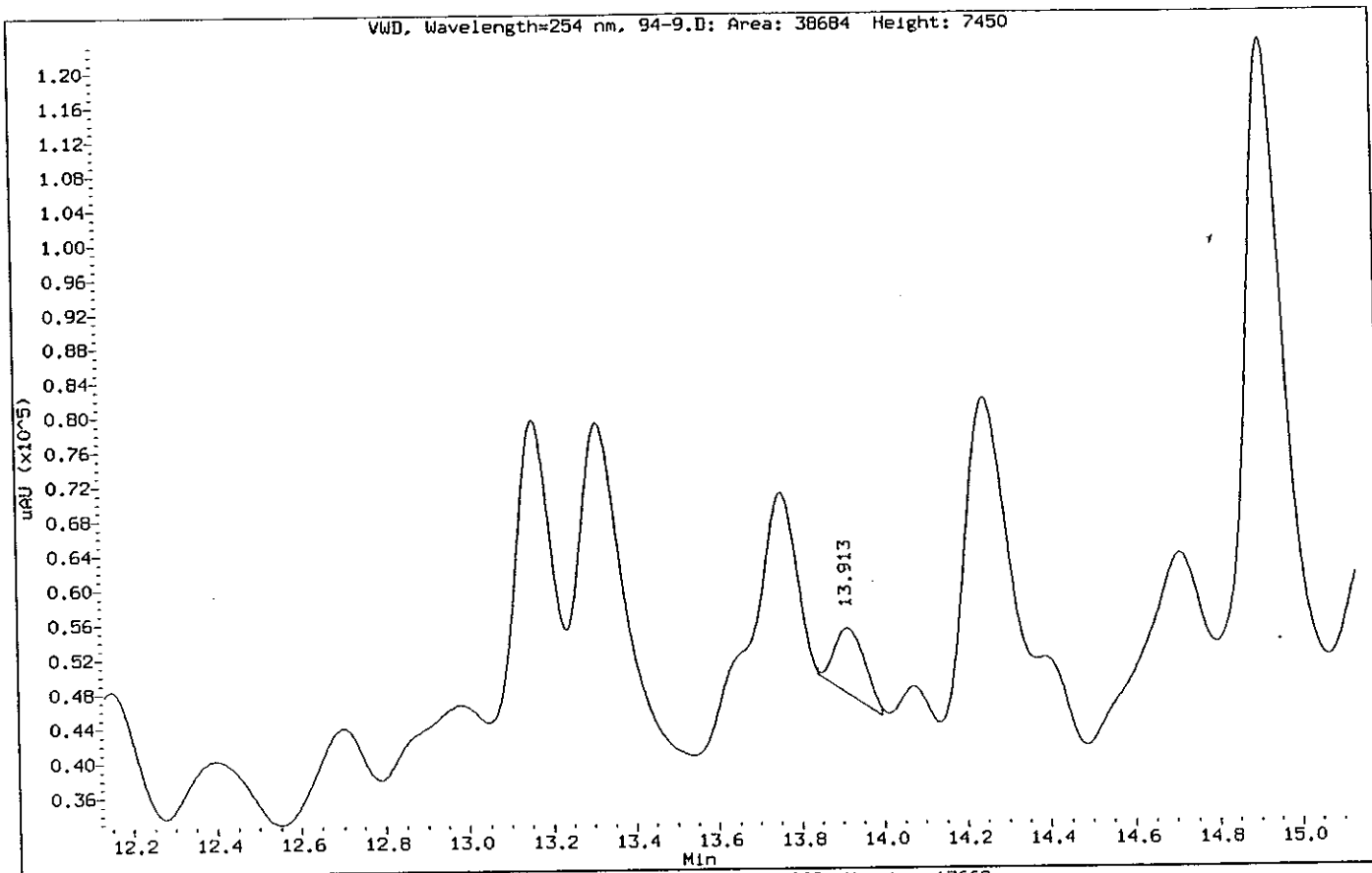
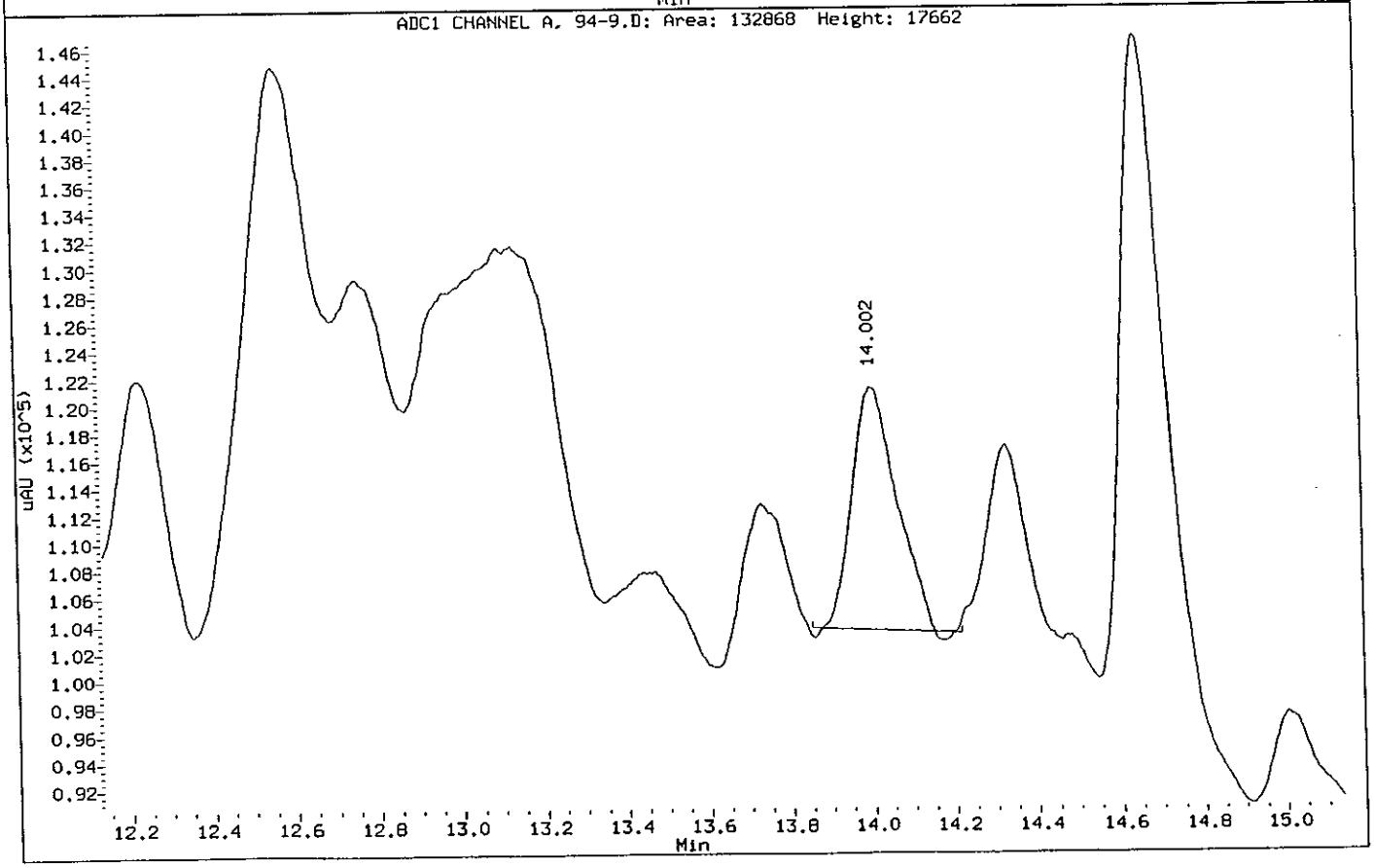
Injection Date: 29-OCT-2001 12:02
Instrument: slc02.i
Client Sample ID: 062B101S101801MSD

Compound: 1-Methyl naphthalene
CAS Number: 90-12-0





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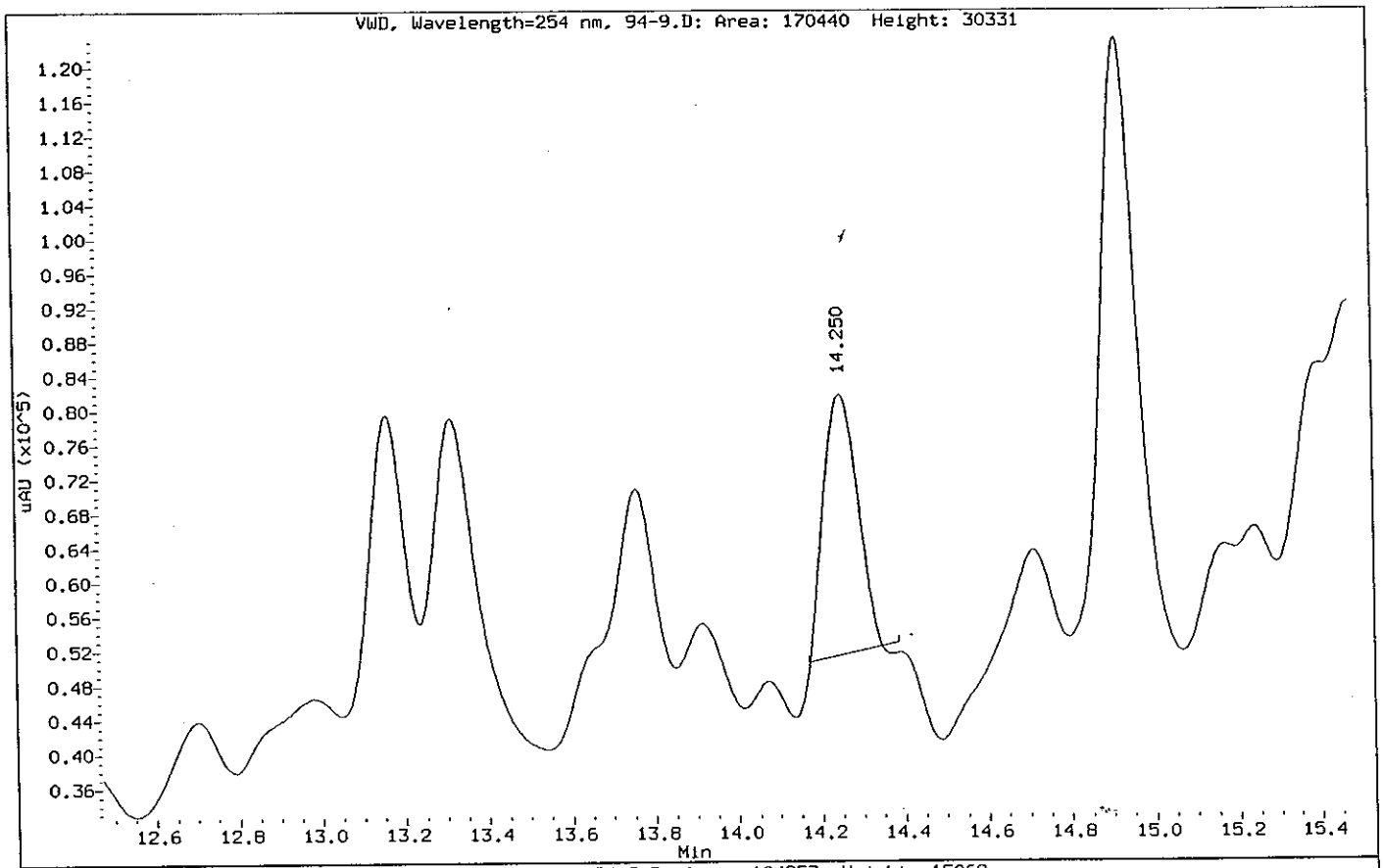
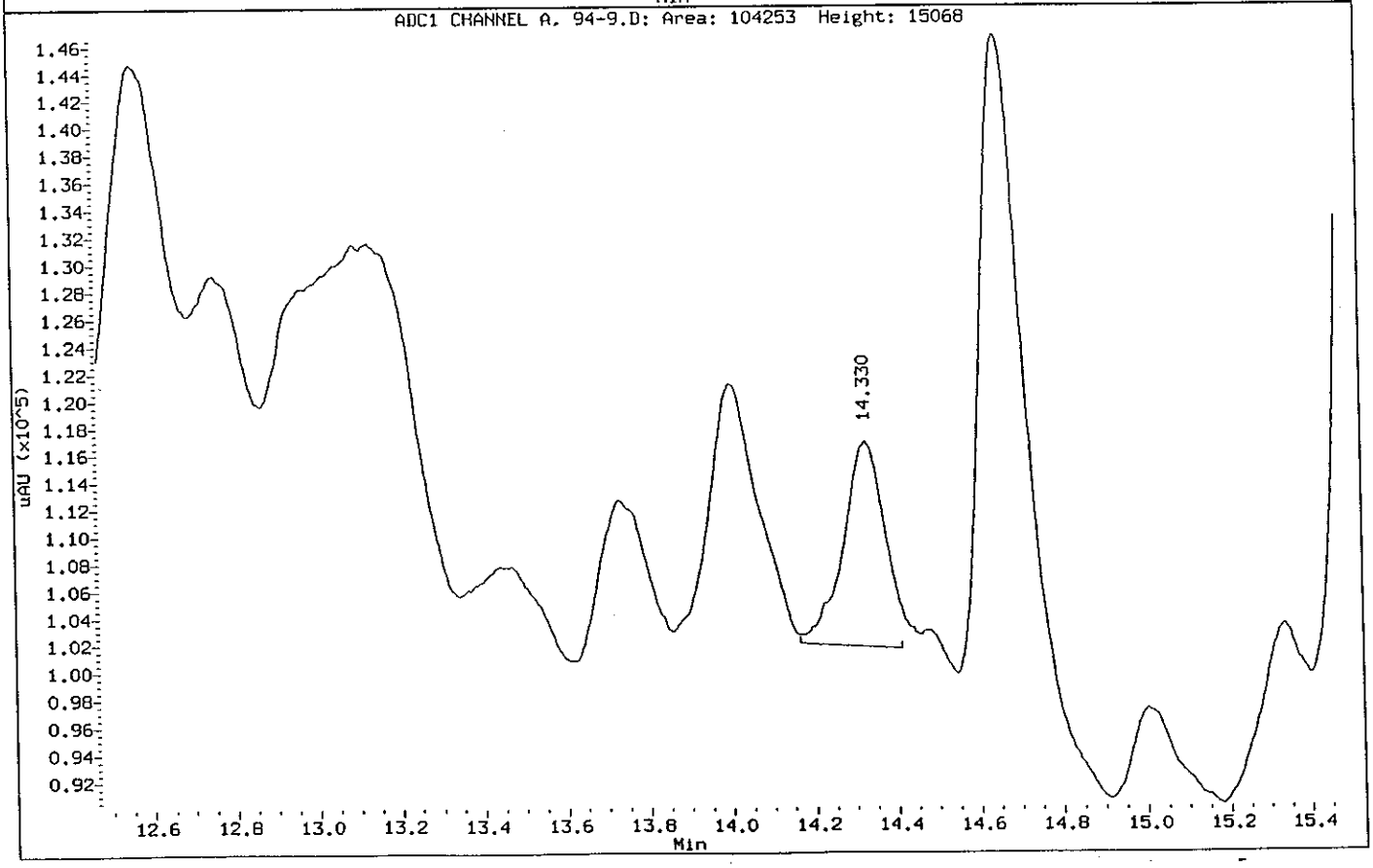
Instrument: slc02.i
Client Sample ID: 062B101S101801MSD

Compound: 2-Methyl naphthalene
CAS Number: 91-57-6





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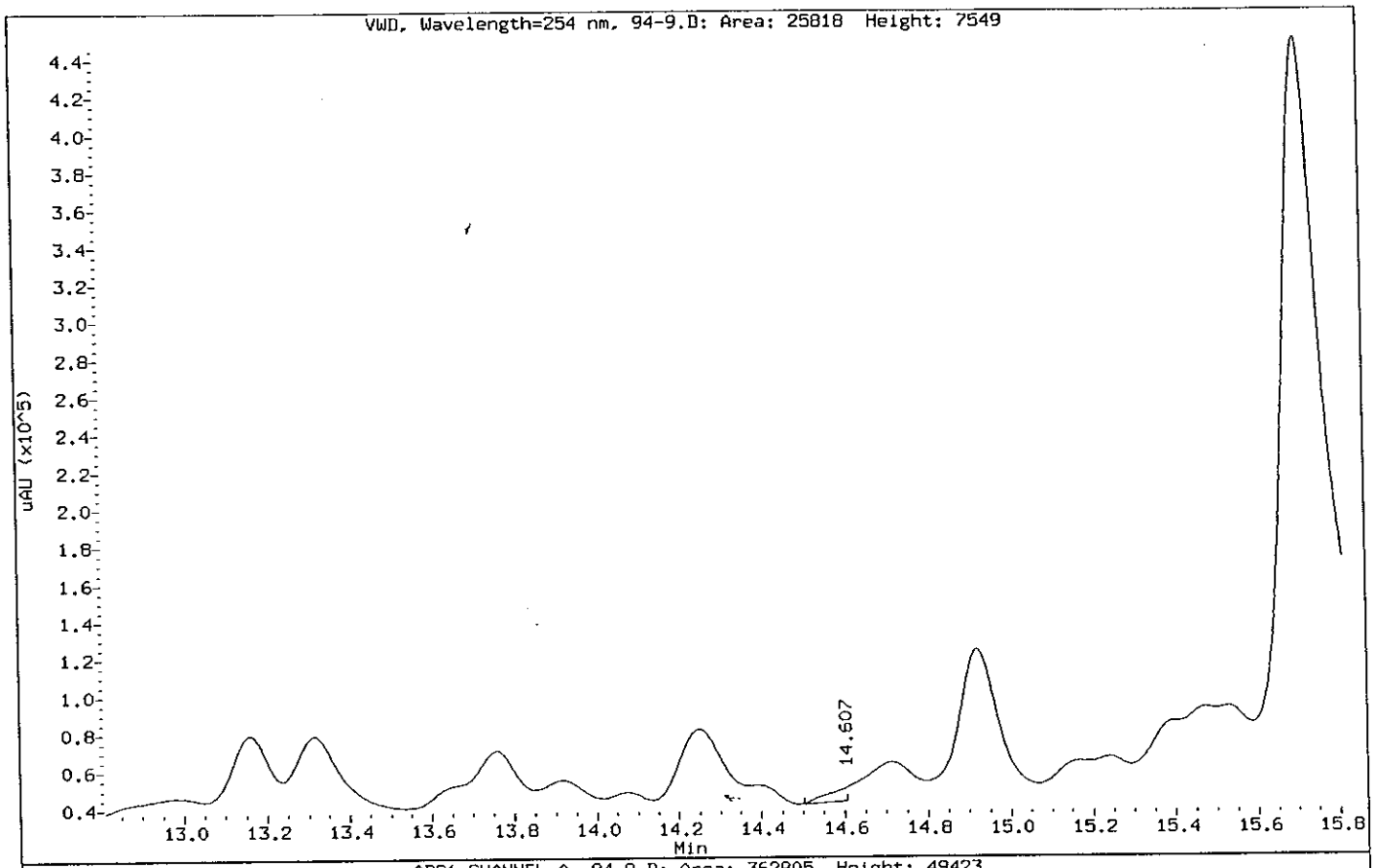
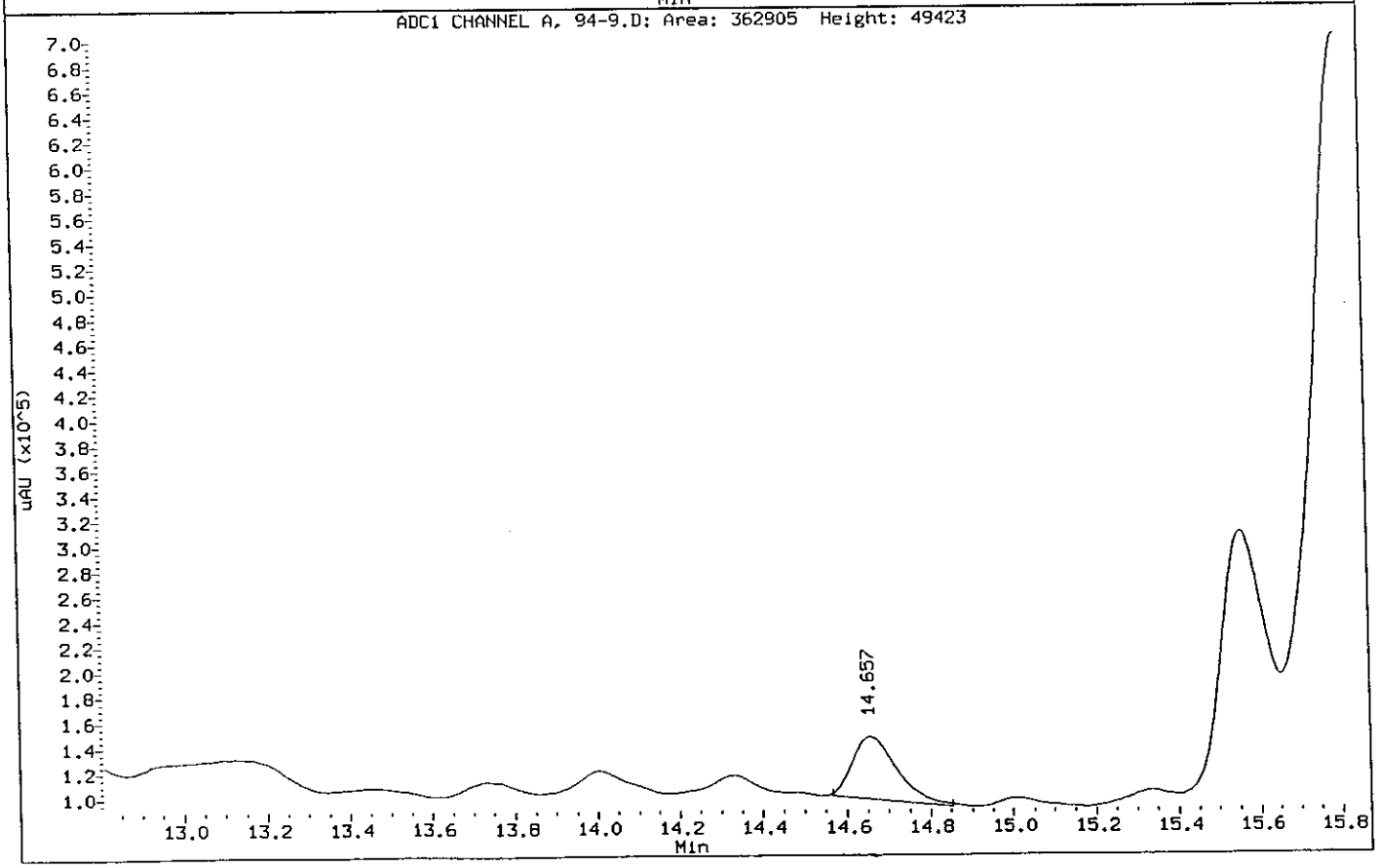
Injection Date: 29-OCT-2001 12:02
Instrument: slc02.i
Client Sample ID: 062B101S101801MSD

Compound: Acenaphthene
CAS Number: 83-32-9





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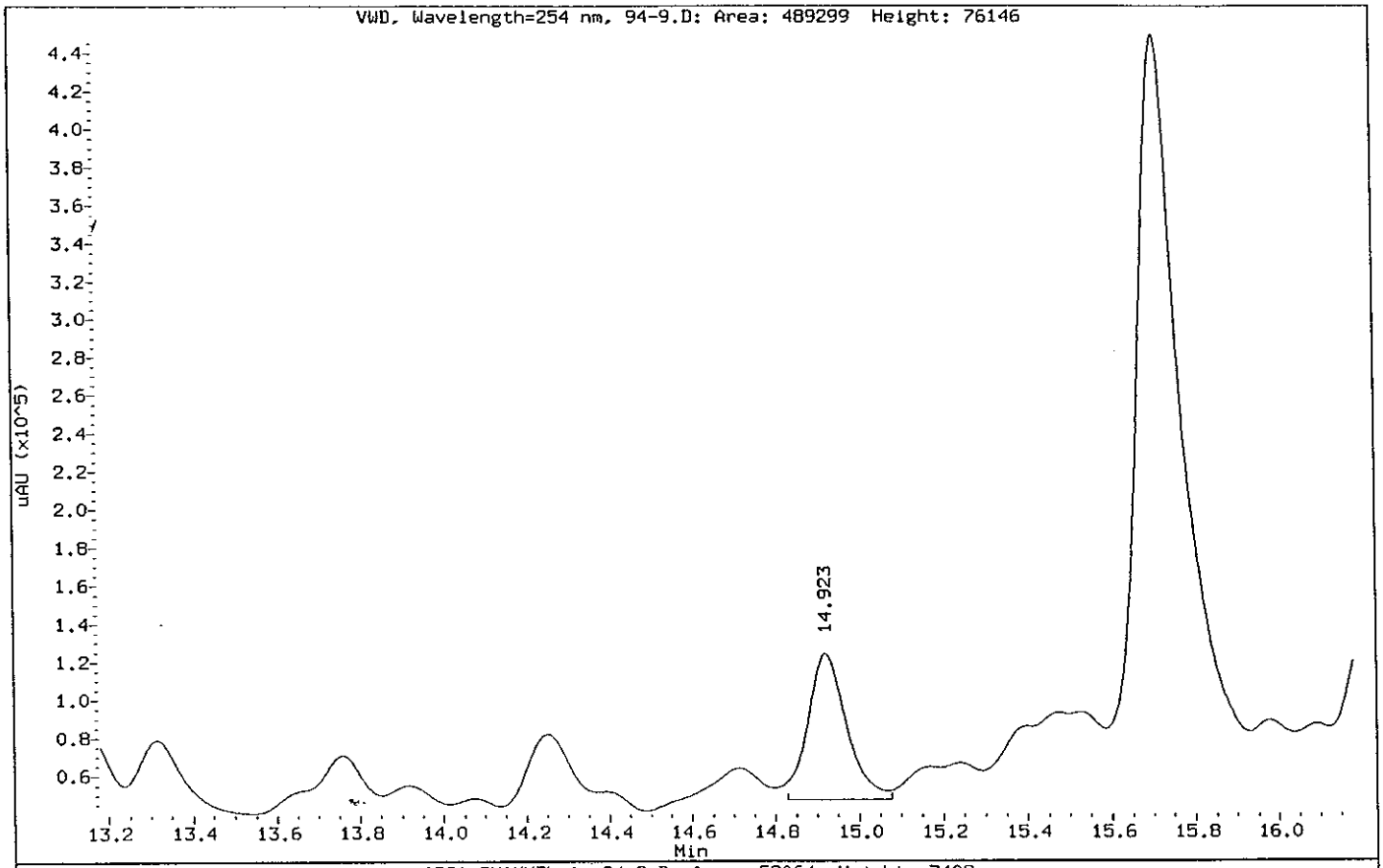
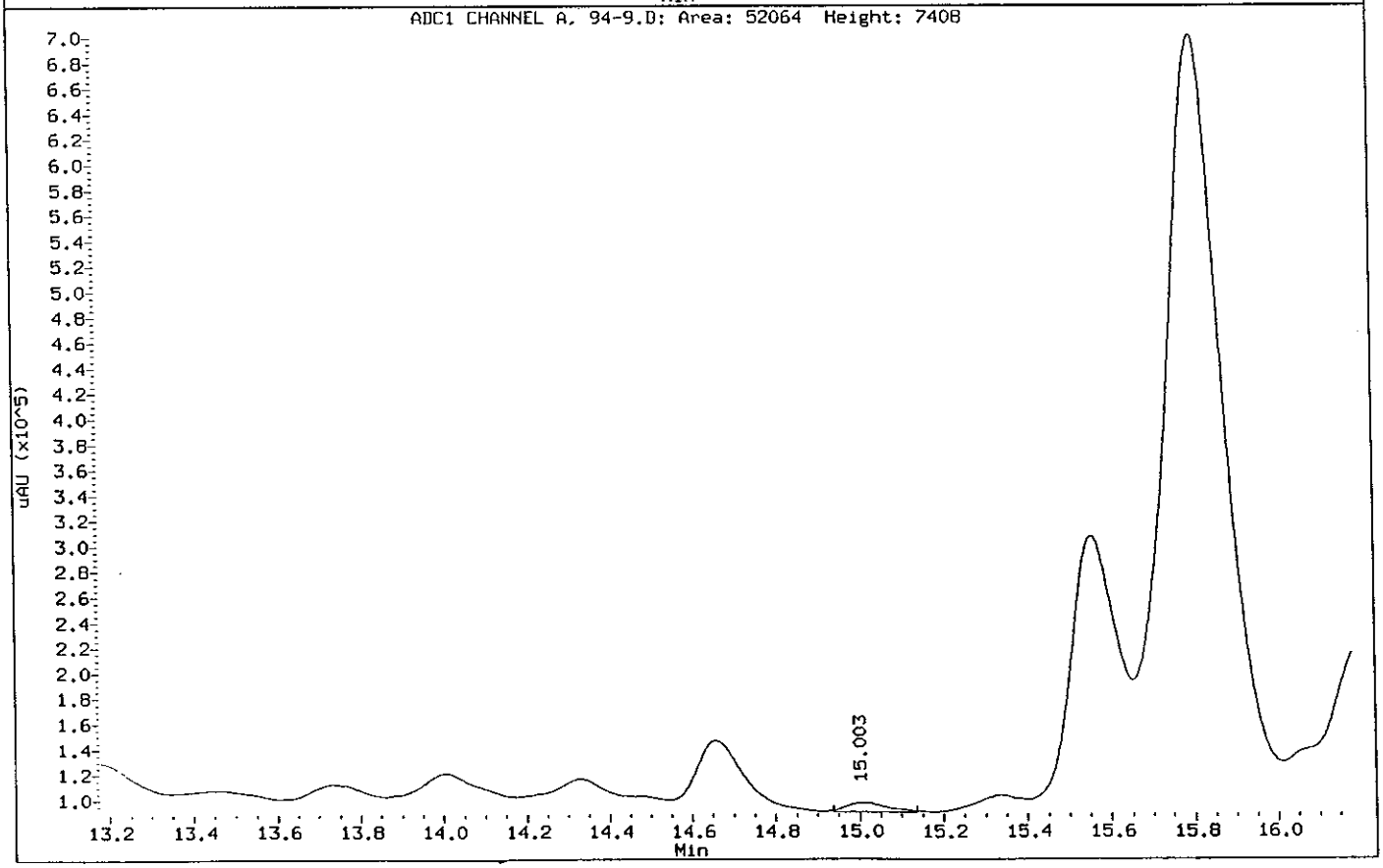
Injection Date: 29-OCT-2001 12:02
Instrument: slc02.i
Client Sample ID: 062B101S101801MSD

Compound: Fluorene
CAS Number: 86-73-7

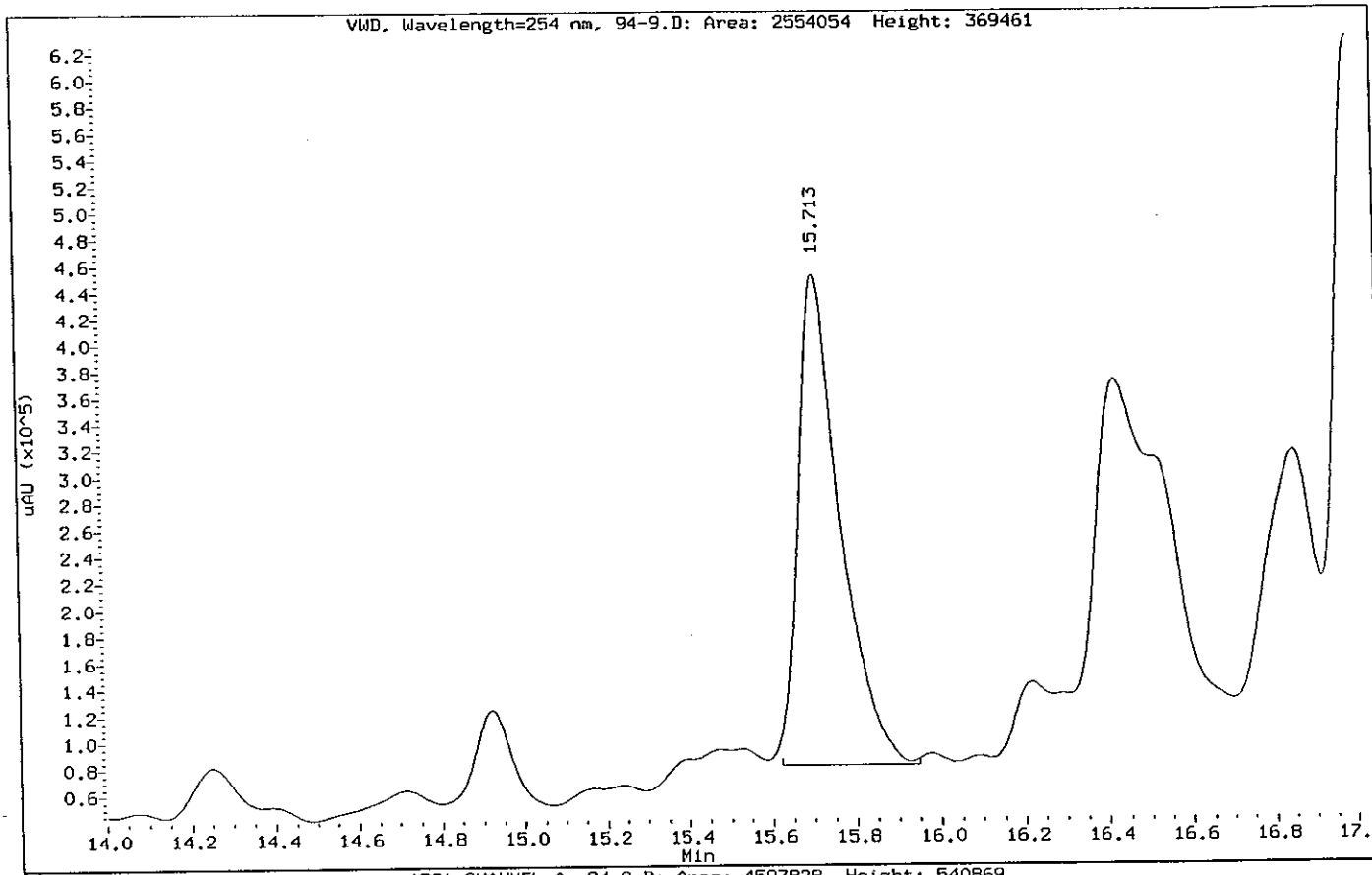


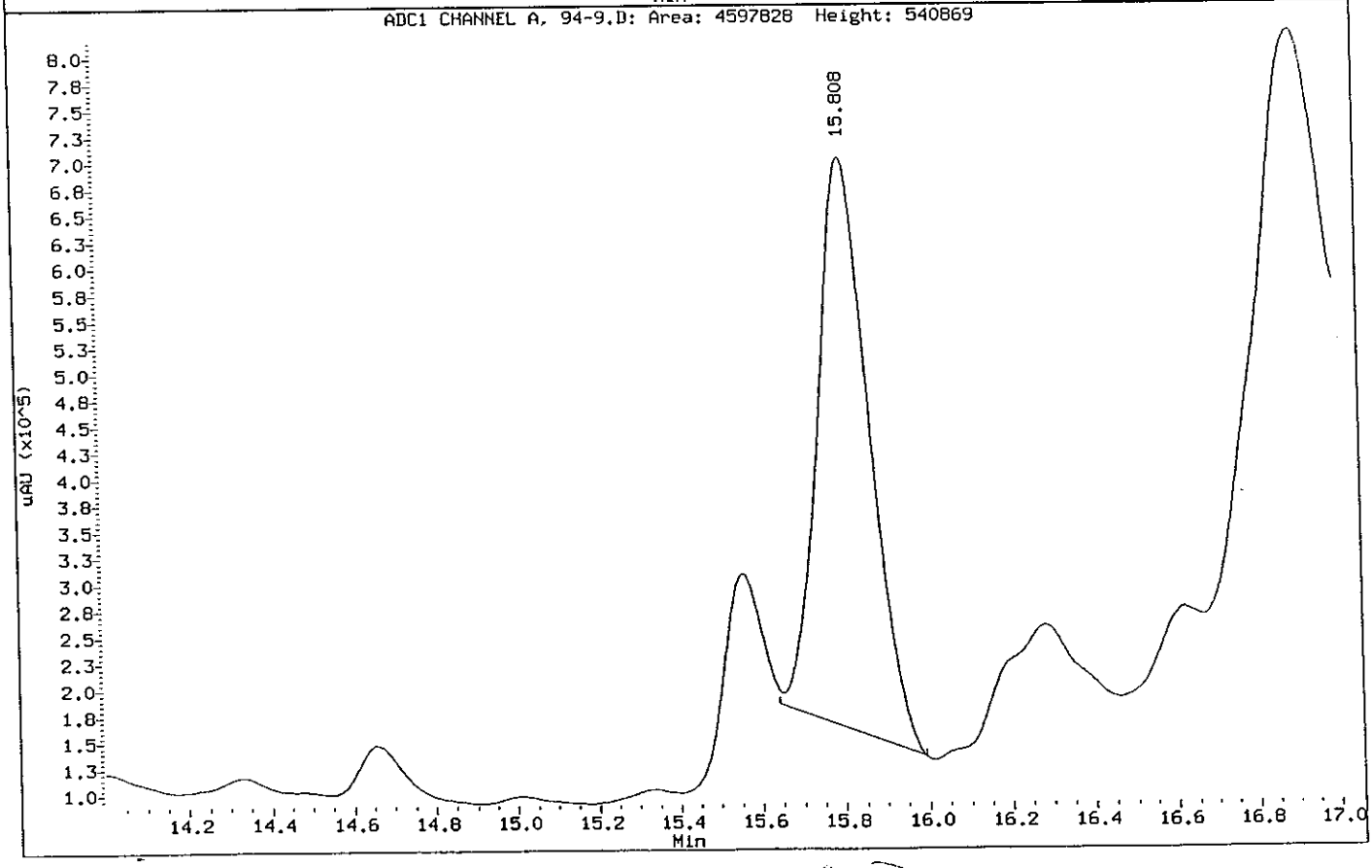


TMD

Data File: \\SVHPLC\ee\chem\slc02.i\L2102BR1.b\94-9.D
Injection Date: 29-OCT-2001 12:02
Instrument: slc02.i
Client Sample ID: 062B101S101801MSD

Compound: Phenanthrene
CAS Number: 85-01-8





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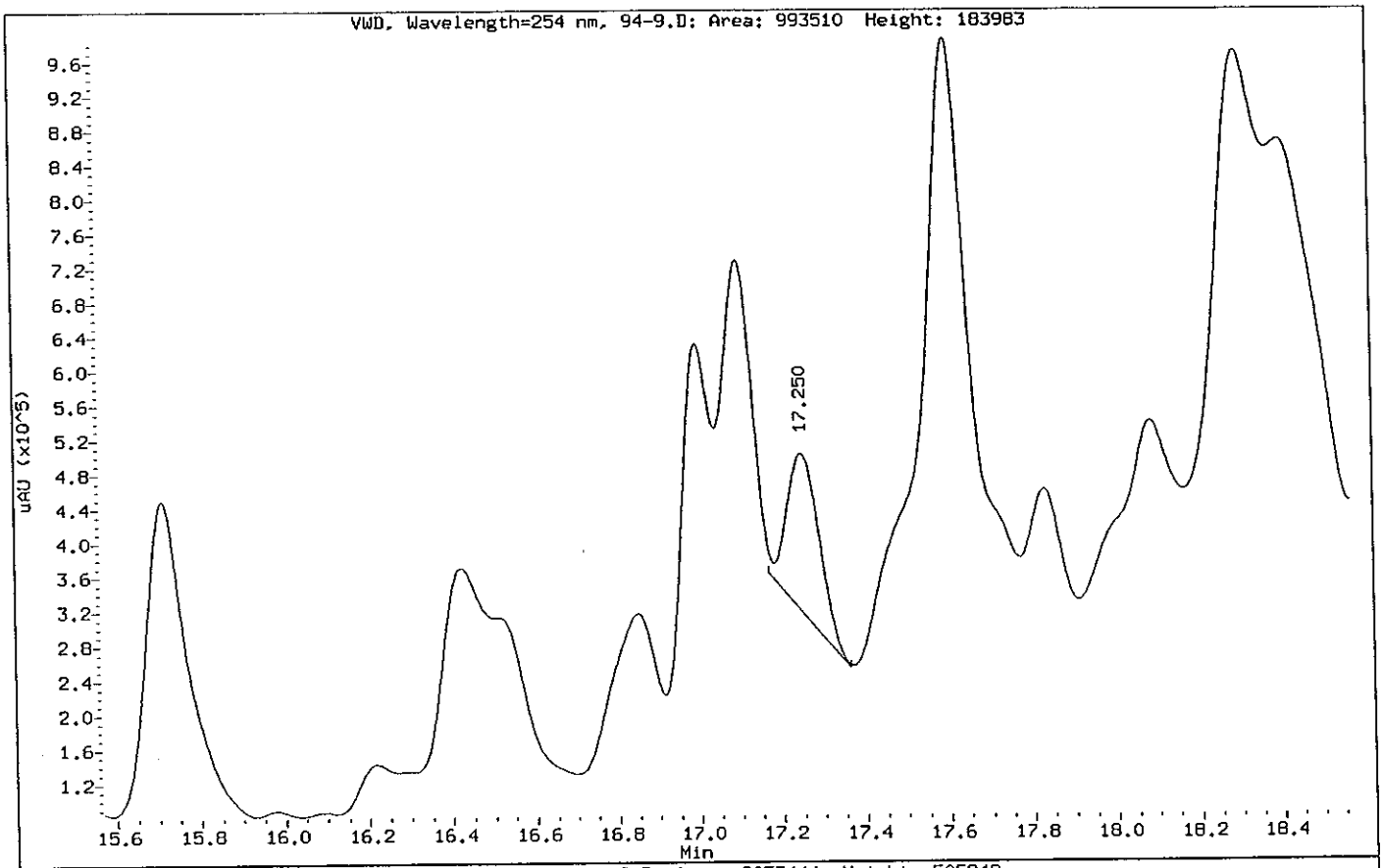
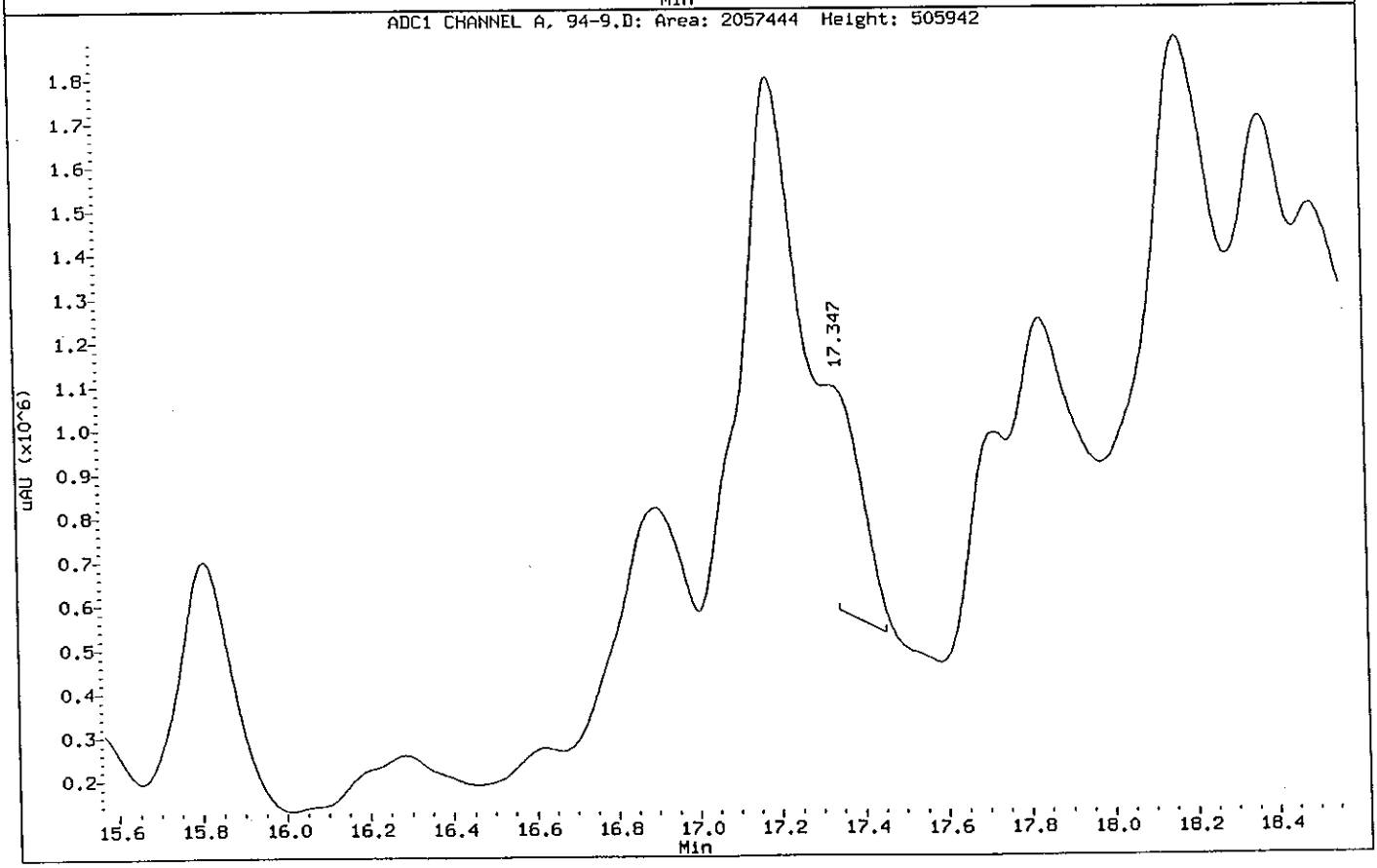
Injection Date: 29-OCT-2001 12:02
Instrument: slc02.i
Client Sample ID: 062B101S101801MSD

Compound: Fluoranthene
CAS Number: 206-44-0





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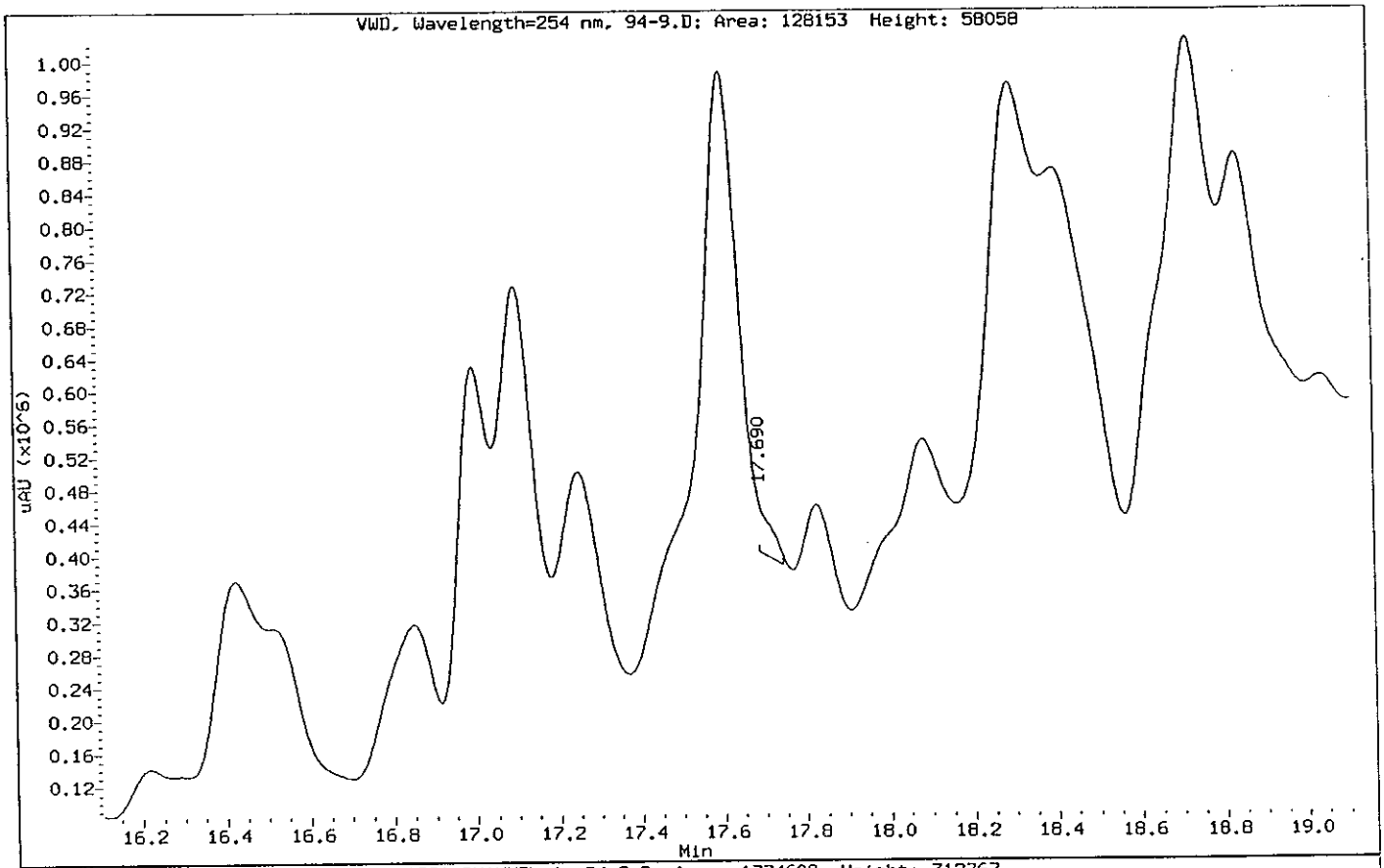
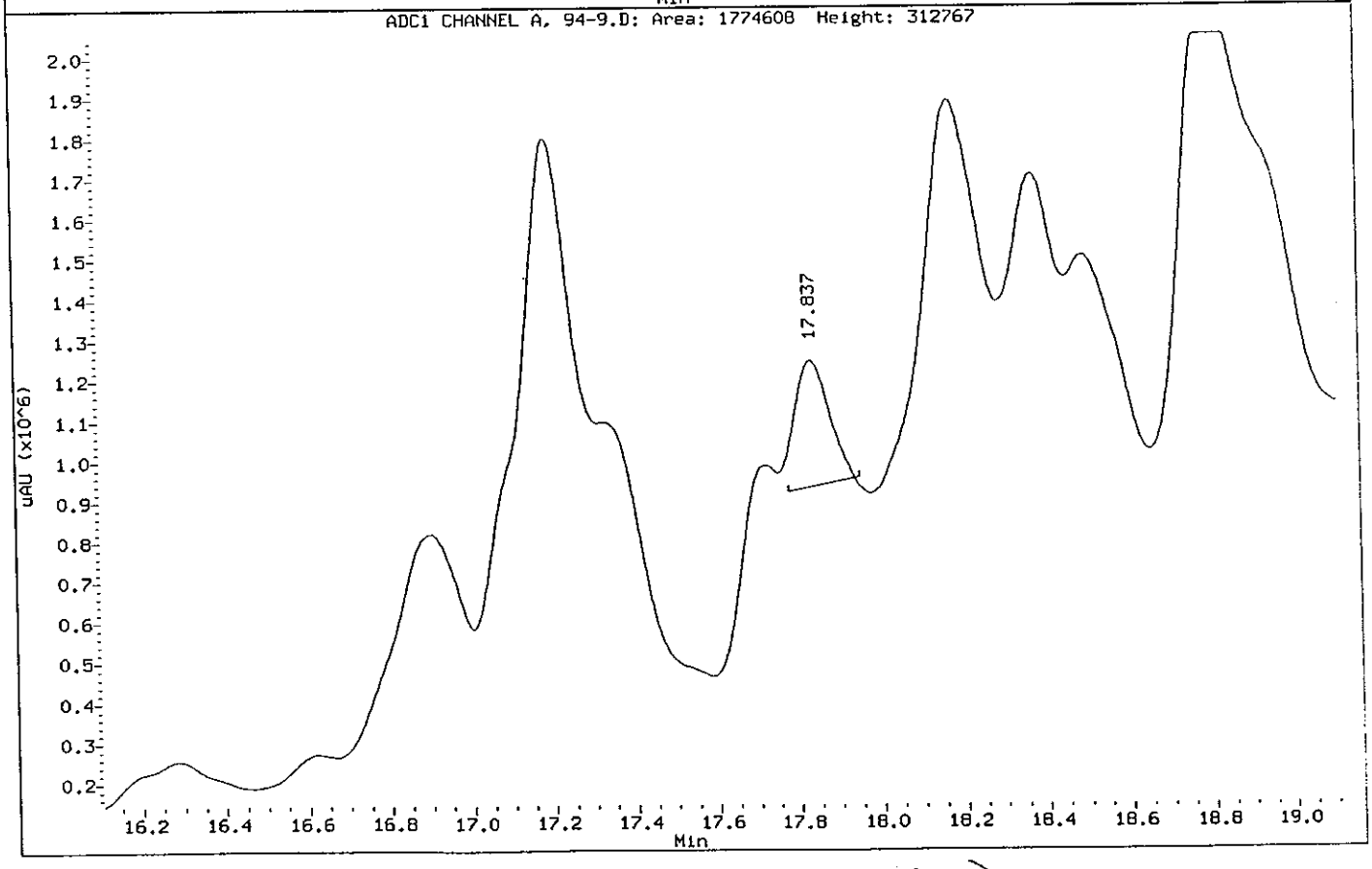
Injection Date: 29-OCT-2001 12:02
Instrument: slc02.i
Client Sample ID: 062B101S101801MSD

Compound: Pyrene
CAS Number: 129-00-0





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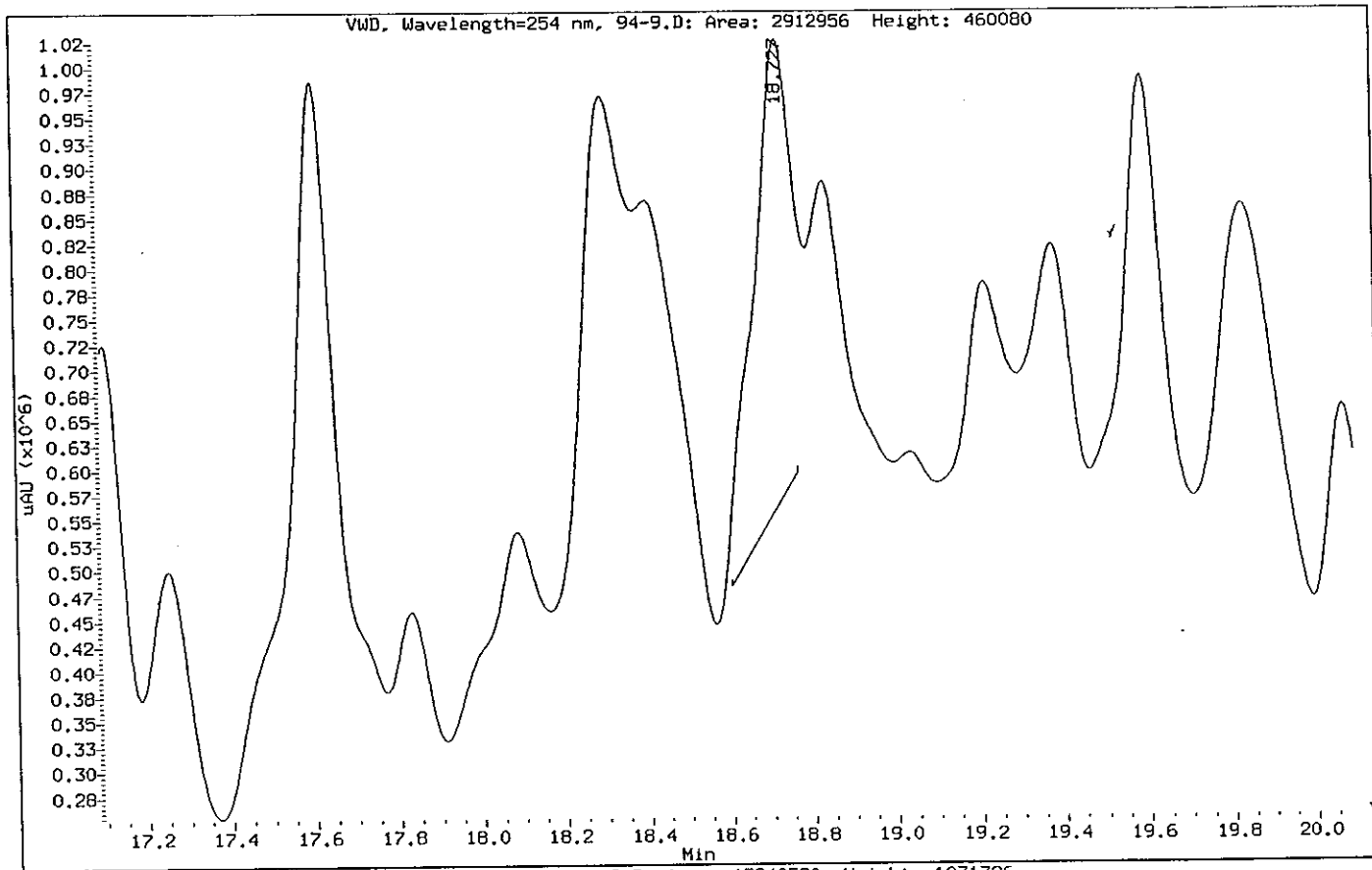
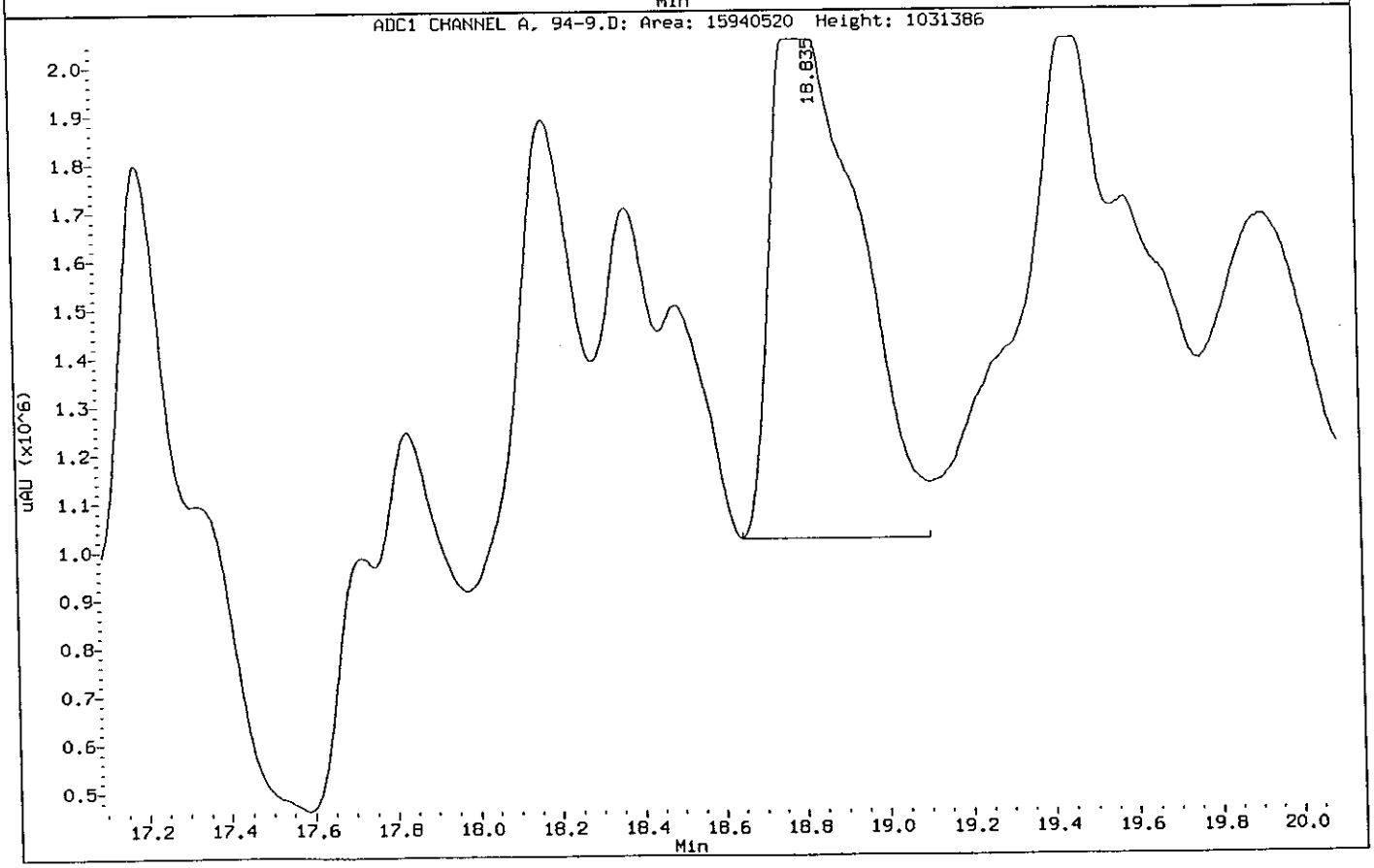
Injection Date: 29-OCT-2001 12:02
Instrument: slc02.i
Client Sample ID: 062B101S101B01MSD

Compound: p-Terphenyl-d14 (SURR)
CAS Number: 1718-51-0





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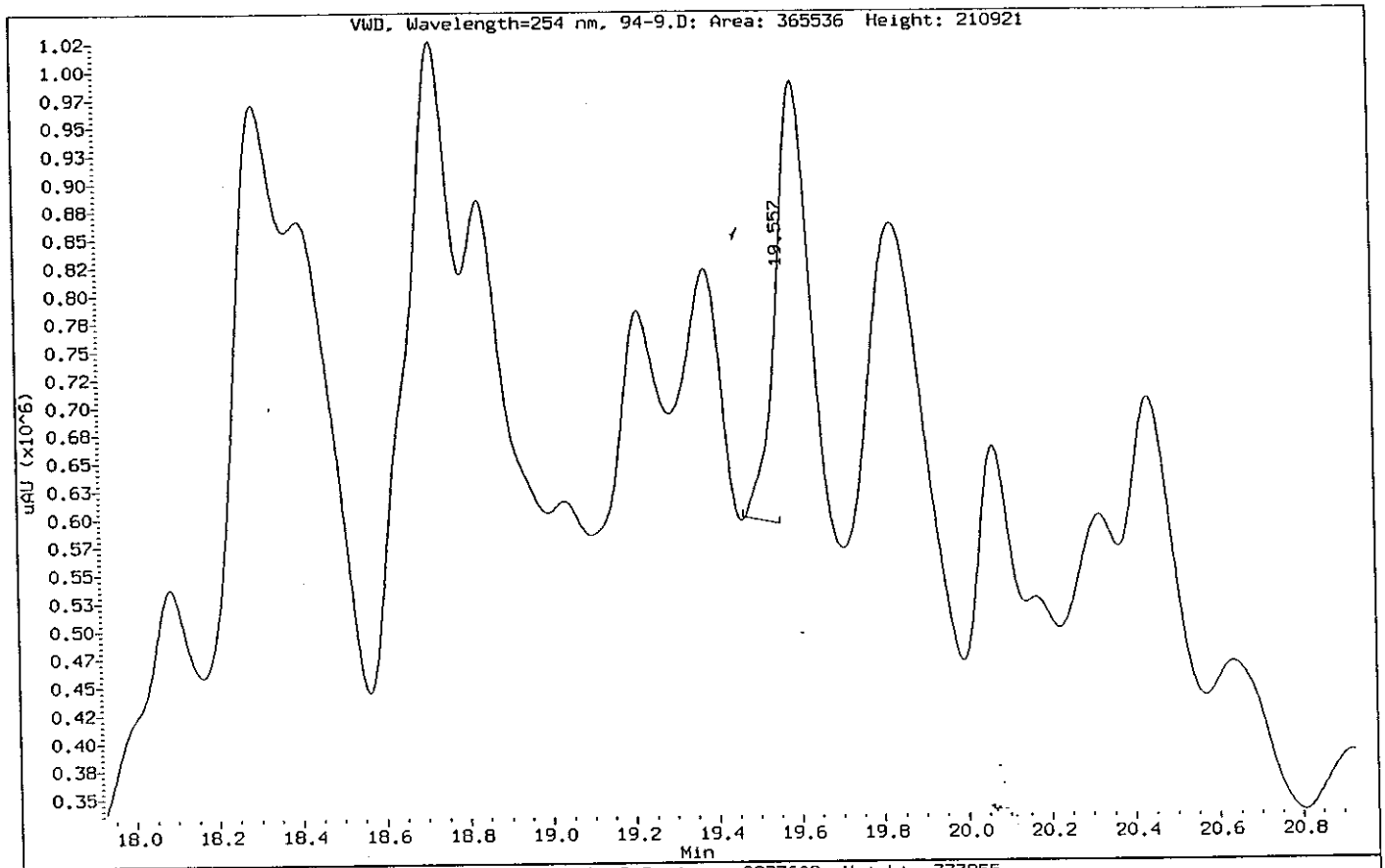
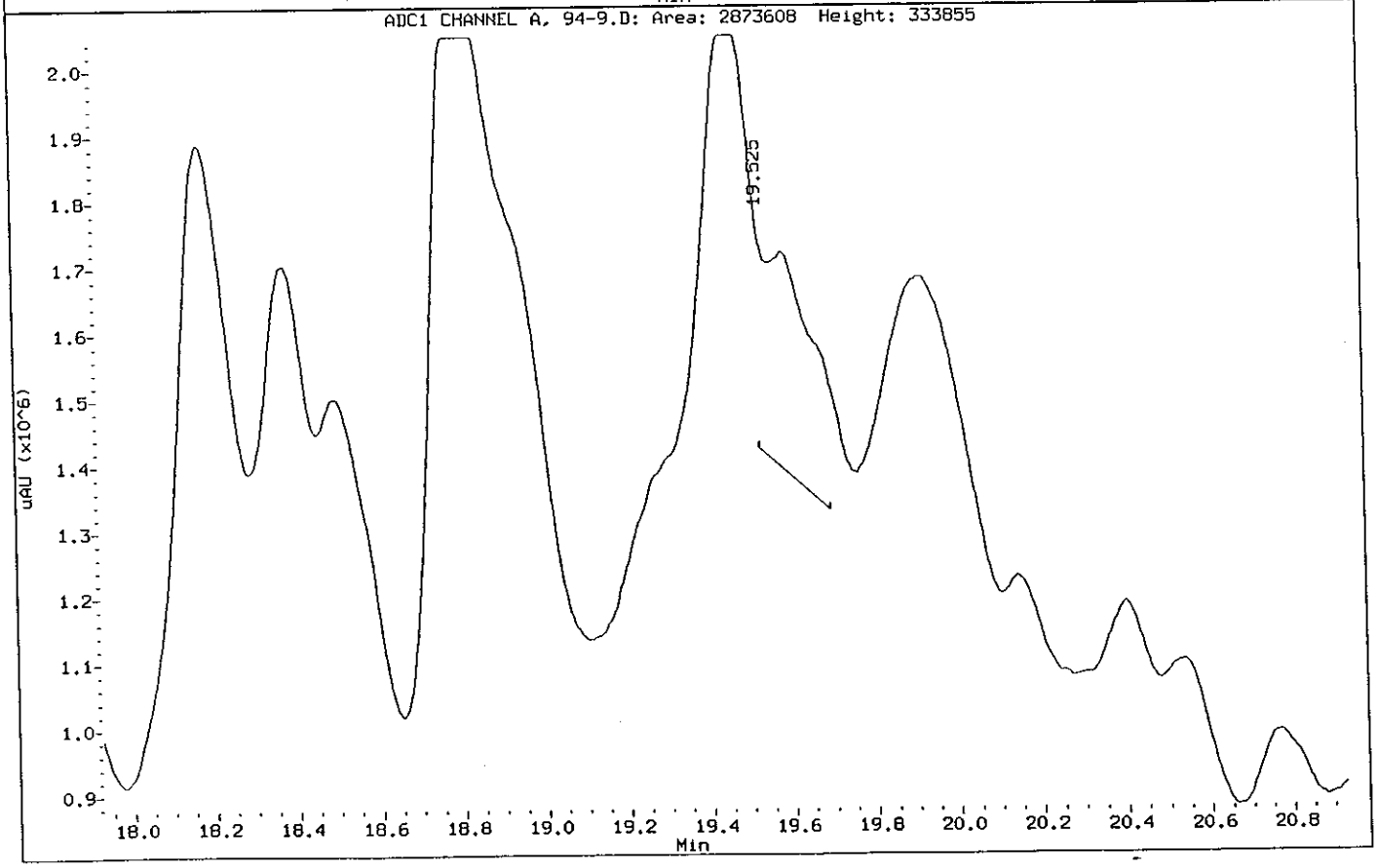
Injection Date: 29-OCT-2001 12:02
Instrument: slc02.i
Client Sample ID: 062B101S101B01MSD

Compound: Benzo(a)Anthracene
CAS Number: 56-55-3





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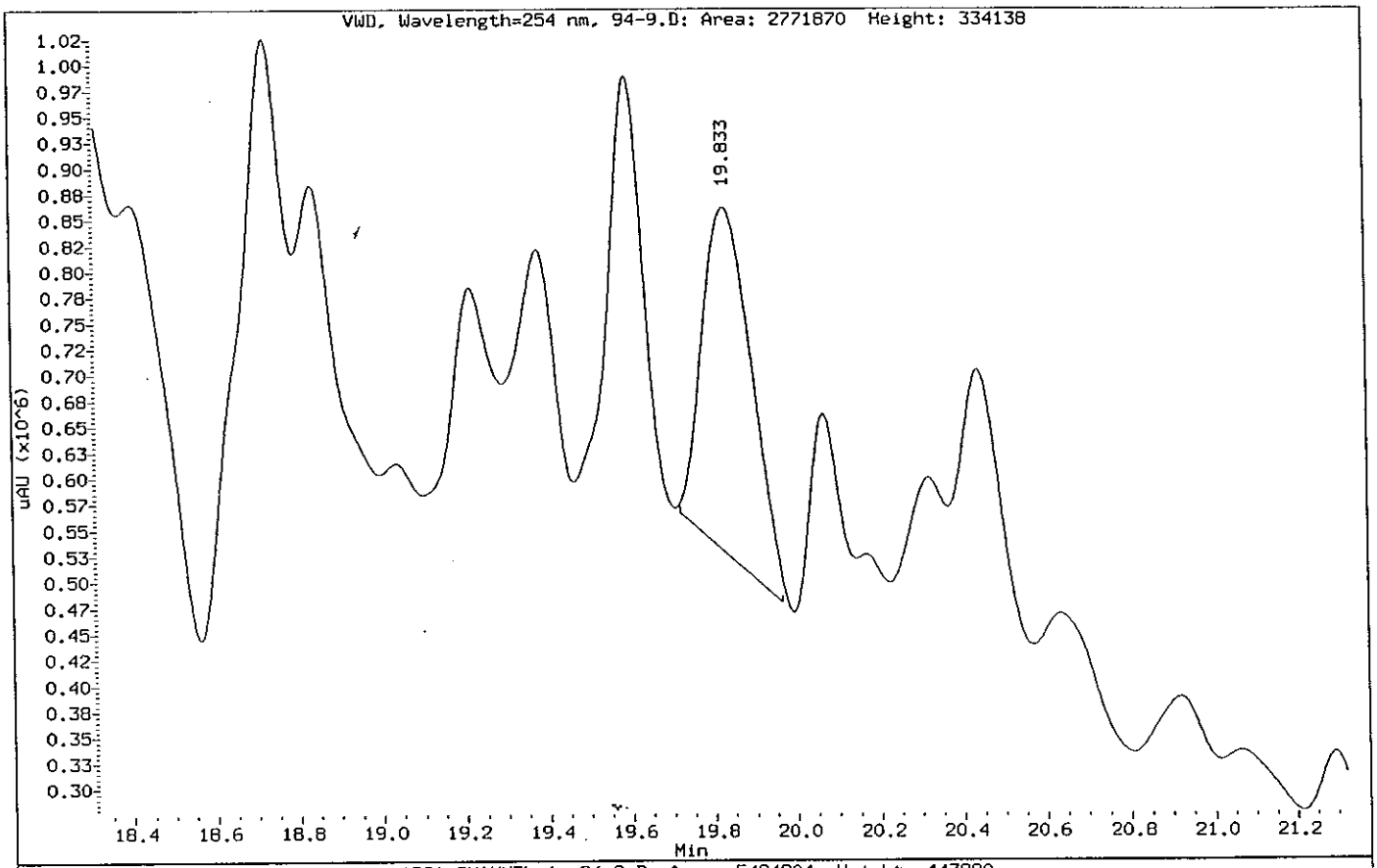
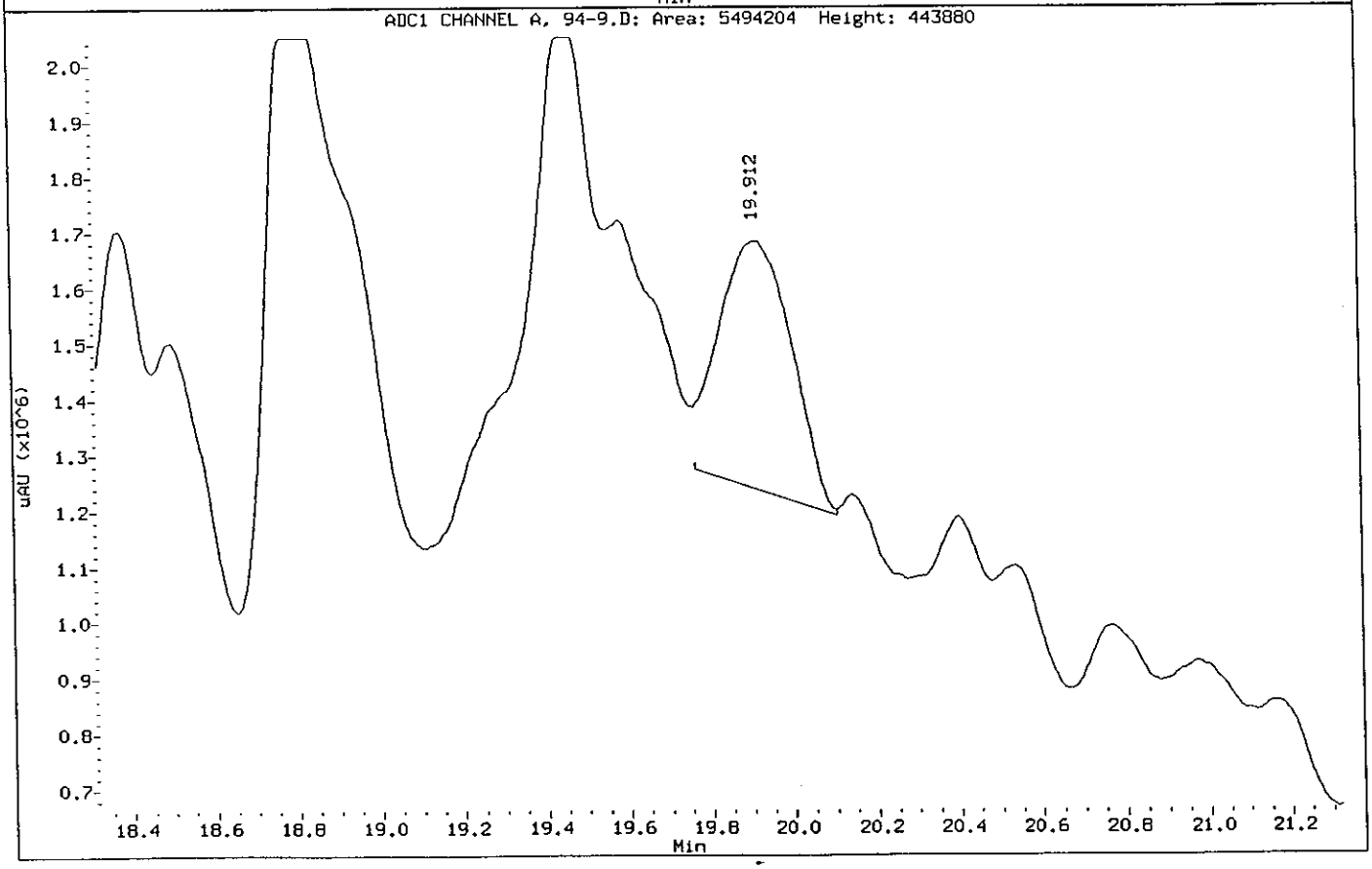
Injection Date: 29-OCT-2001 12:02
Instrument: slc02.i
Client Sample ID: 062B101S101801MSD

Compound: Chrysene
CAS Number: 218-01-9





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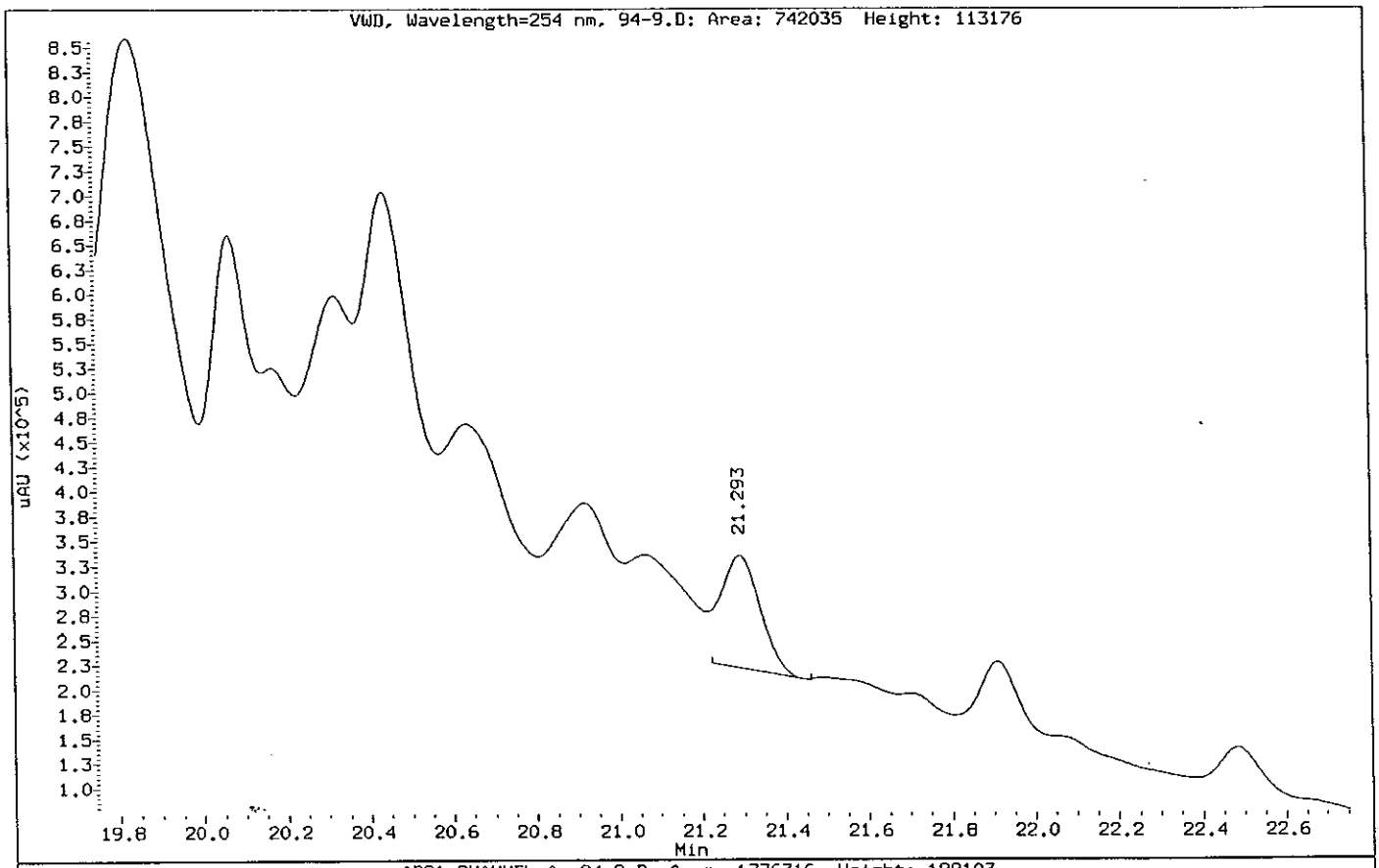
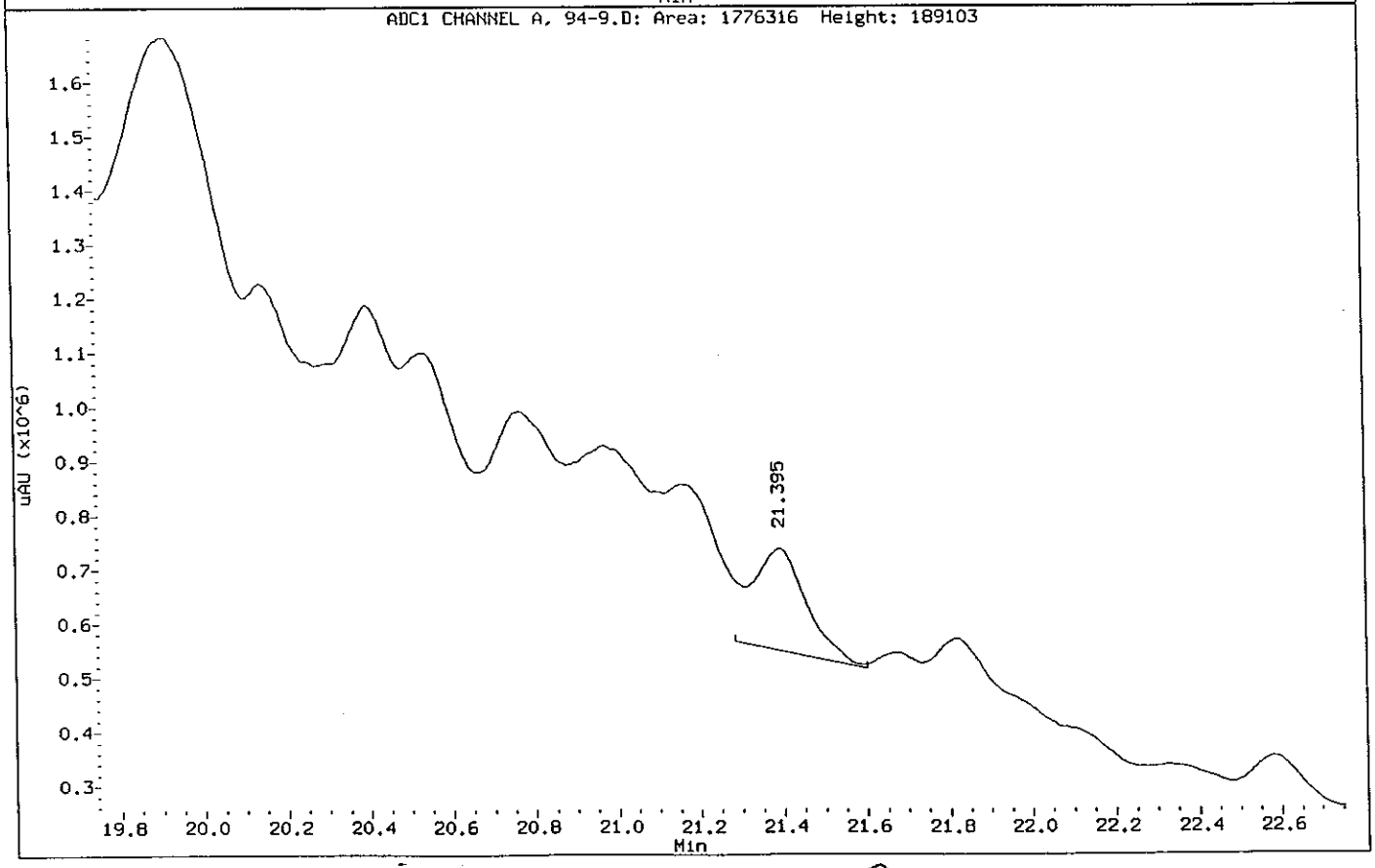
Injection Date: 29-OCT-2001 12:02
Instrument: slc02.i
Client Sample ID: 062B101S101B01MSD

Compound: Benzo(b)Fluoranthene
CAS Number: 205-99-2





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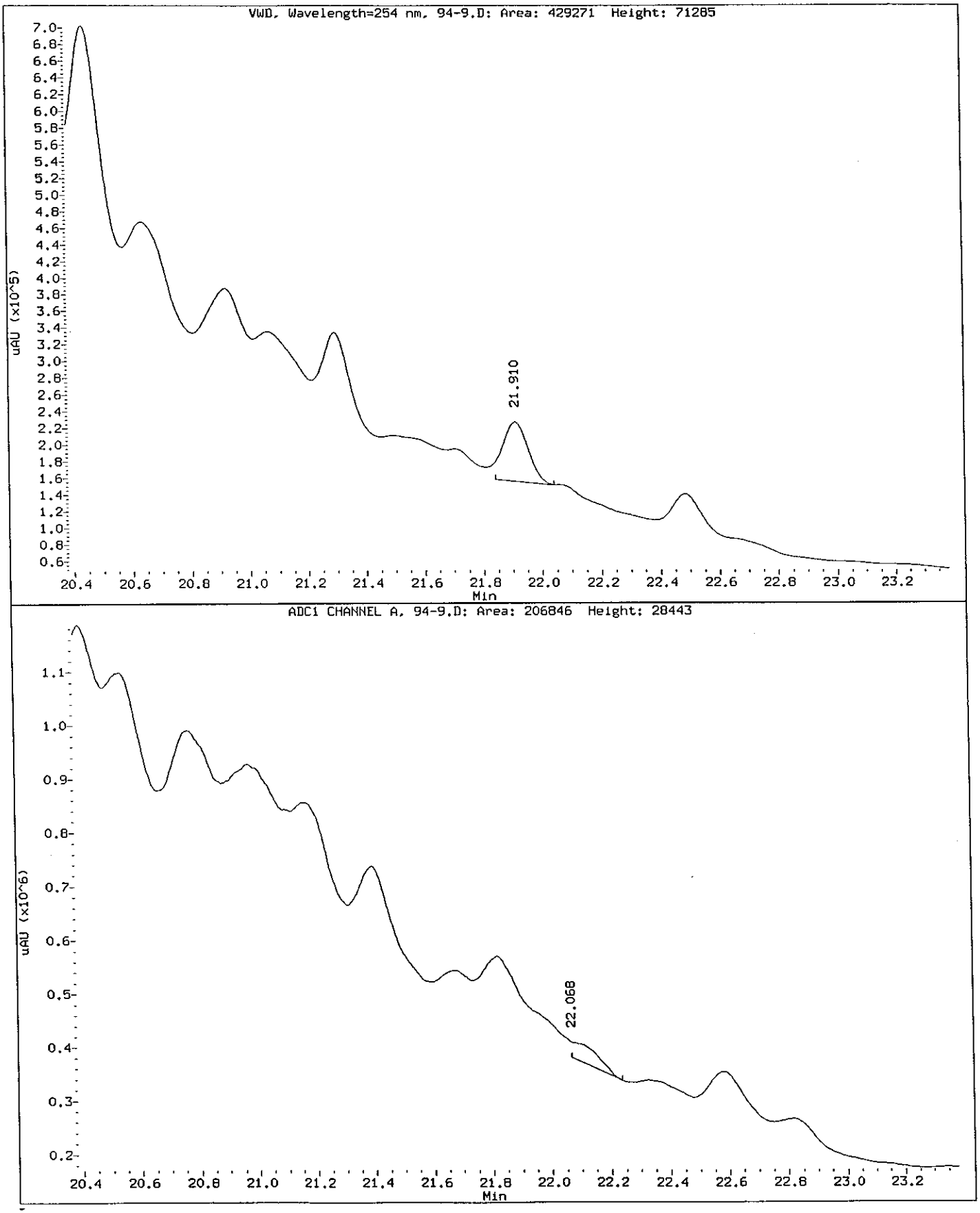
Injection Date: 29-OCT-2001 12:02
Instrument: slc02.i
Client Sample ID: 062B101S101801MSD

Compound: Benzo(k)Fluoranthene
CAS Number: 207-08-9



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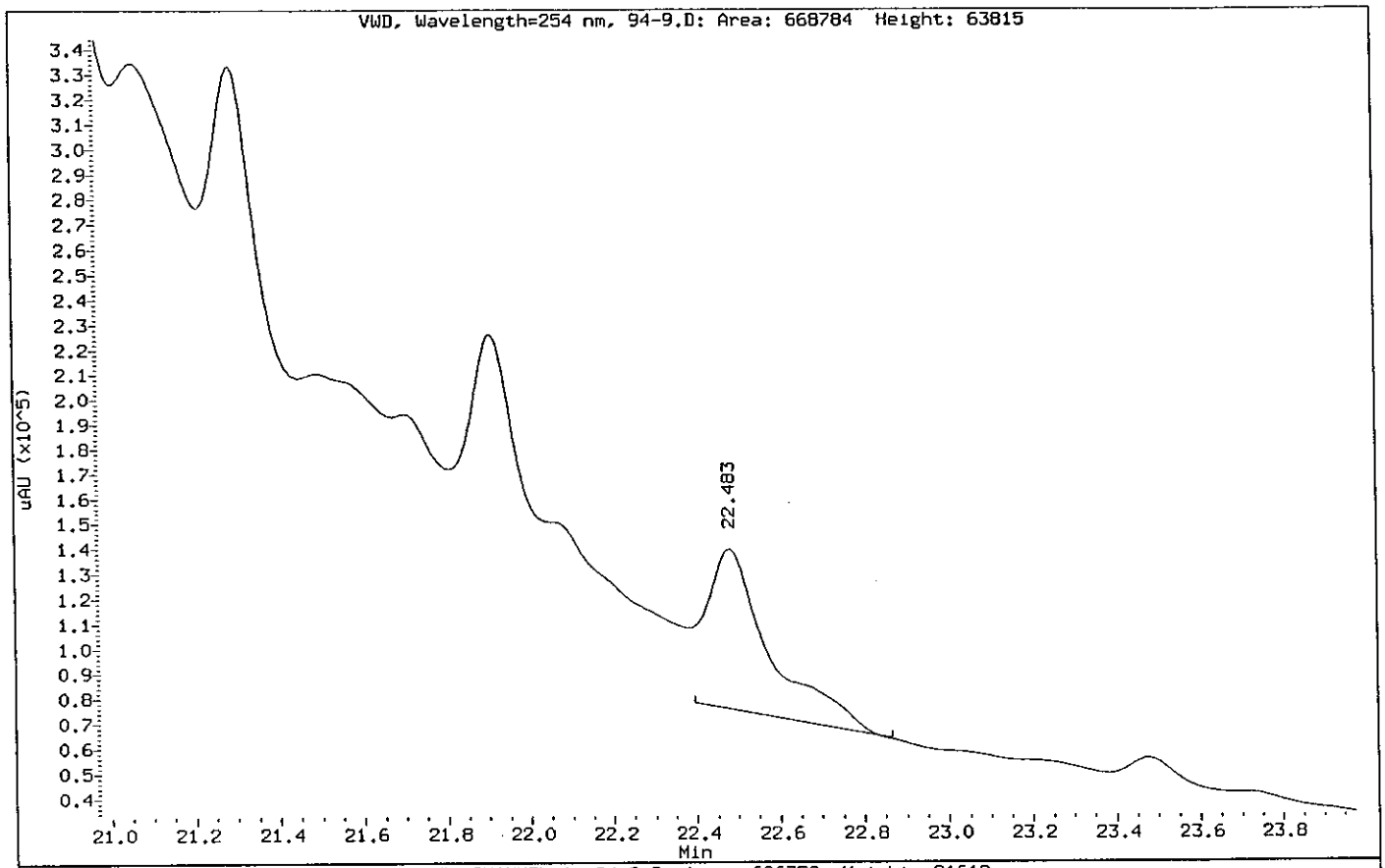
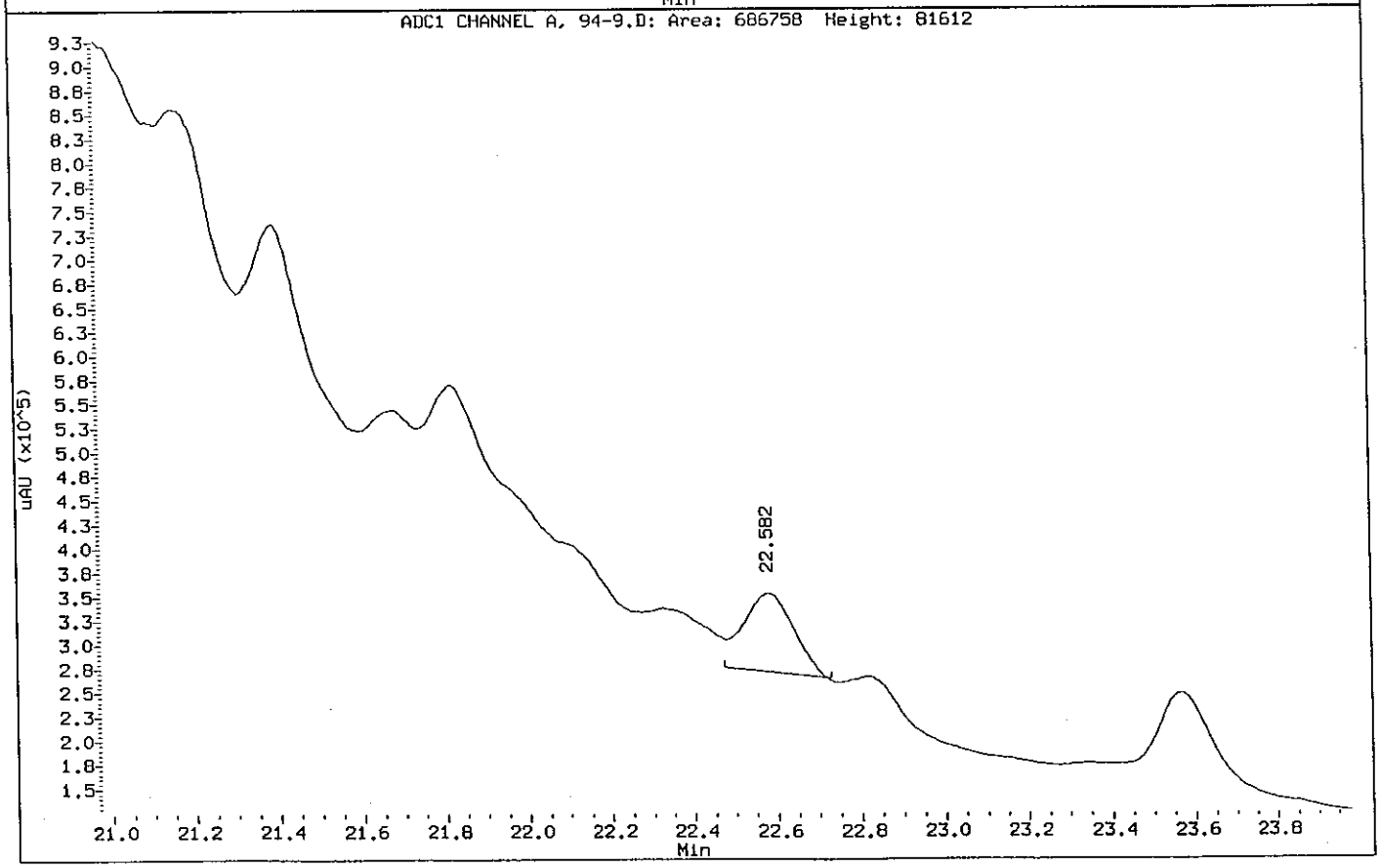
Injection Date: 29-OCT-2001 12:02
Instrument: slc02.i
Client Sample ID: 062B101S101801MSD

Compound: Benzo(a)pyrene
CAS Number: 50-32-8

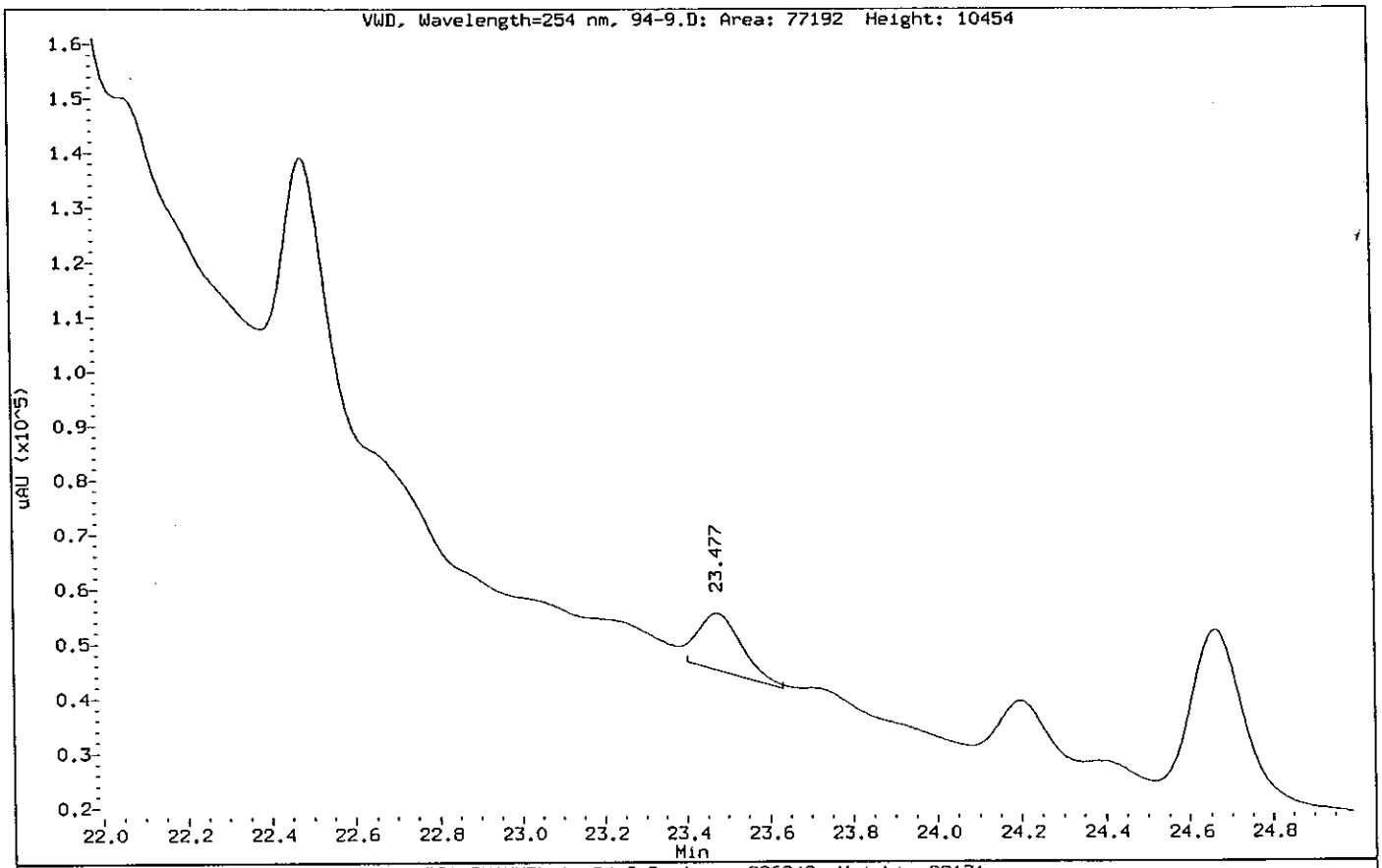


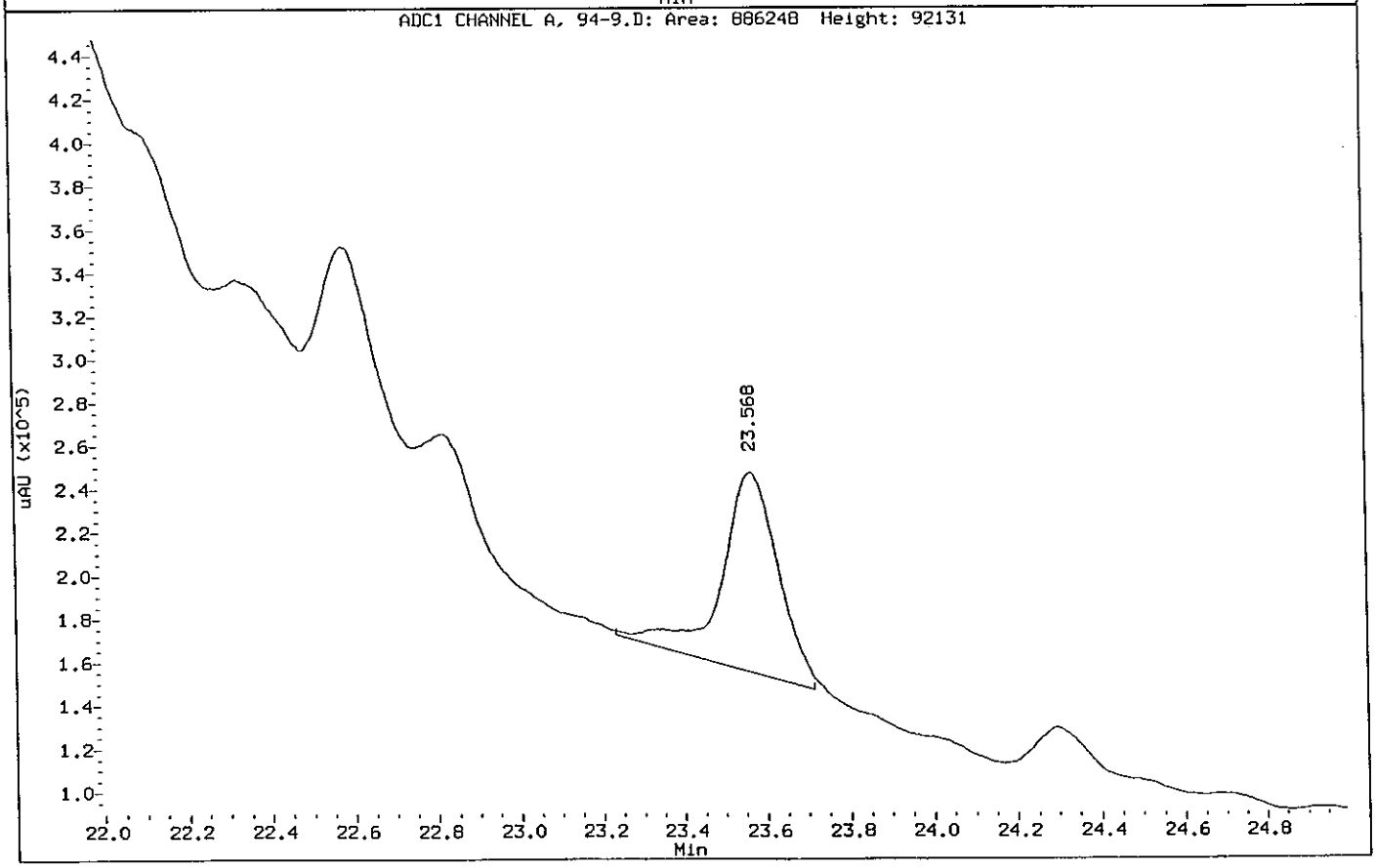


TND

Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-9.D
Injection Date: 29-OCT-2001 12:02
Instrument: slc02.i
Client Sample ID: 062B101S101801MSD

Compound: Dibenz(ah)Anthracene
CAS Number: 53-70-3





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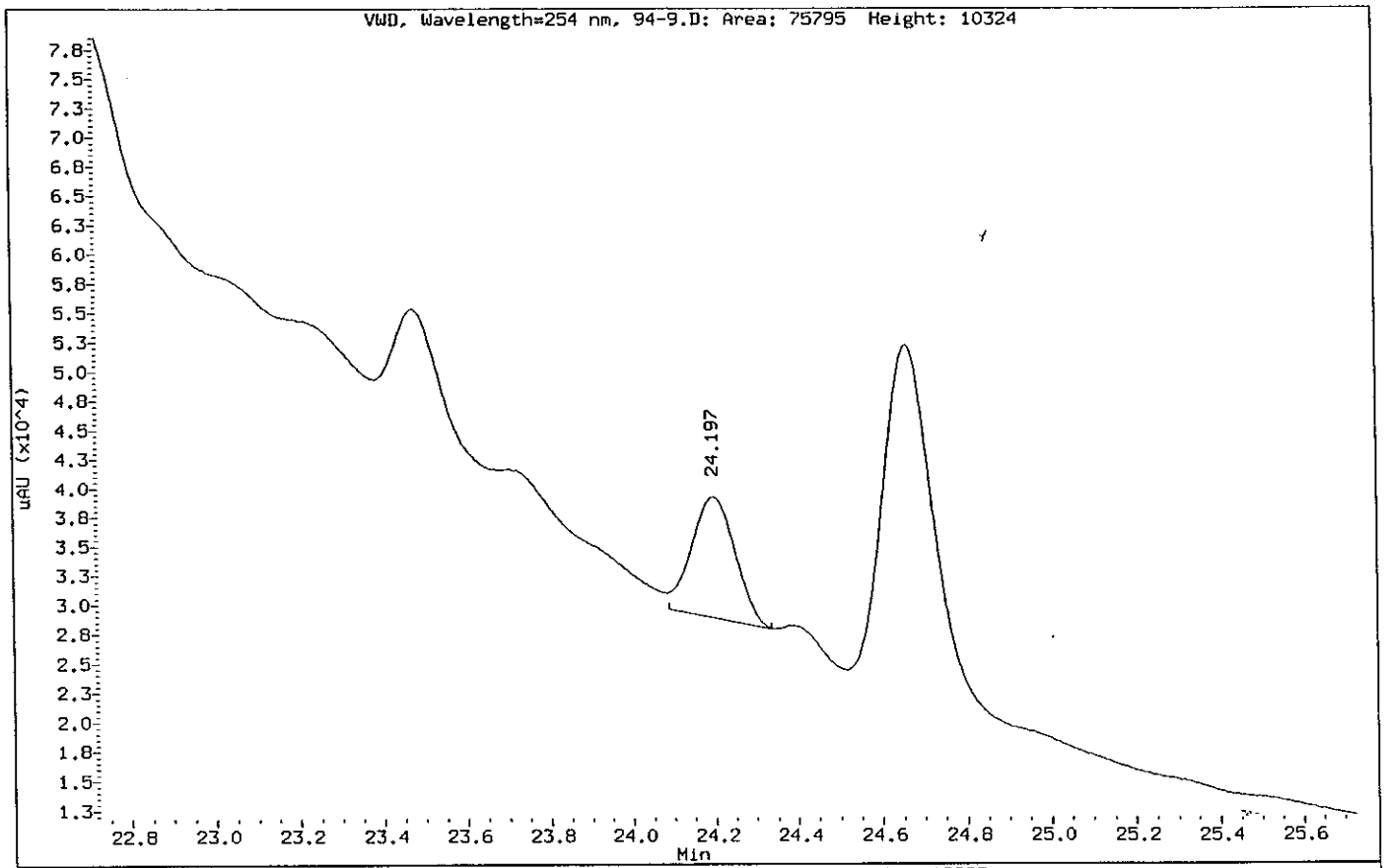
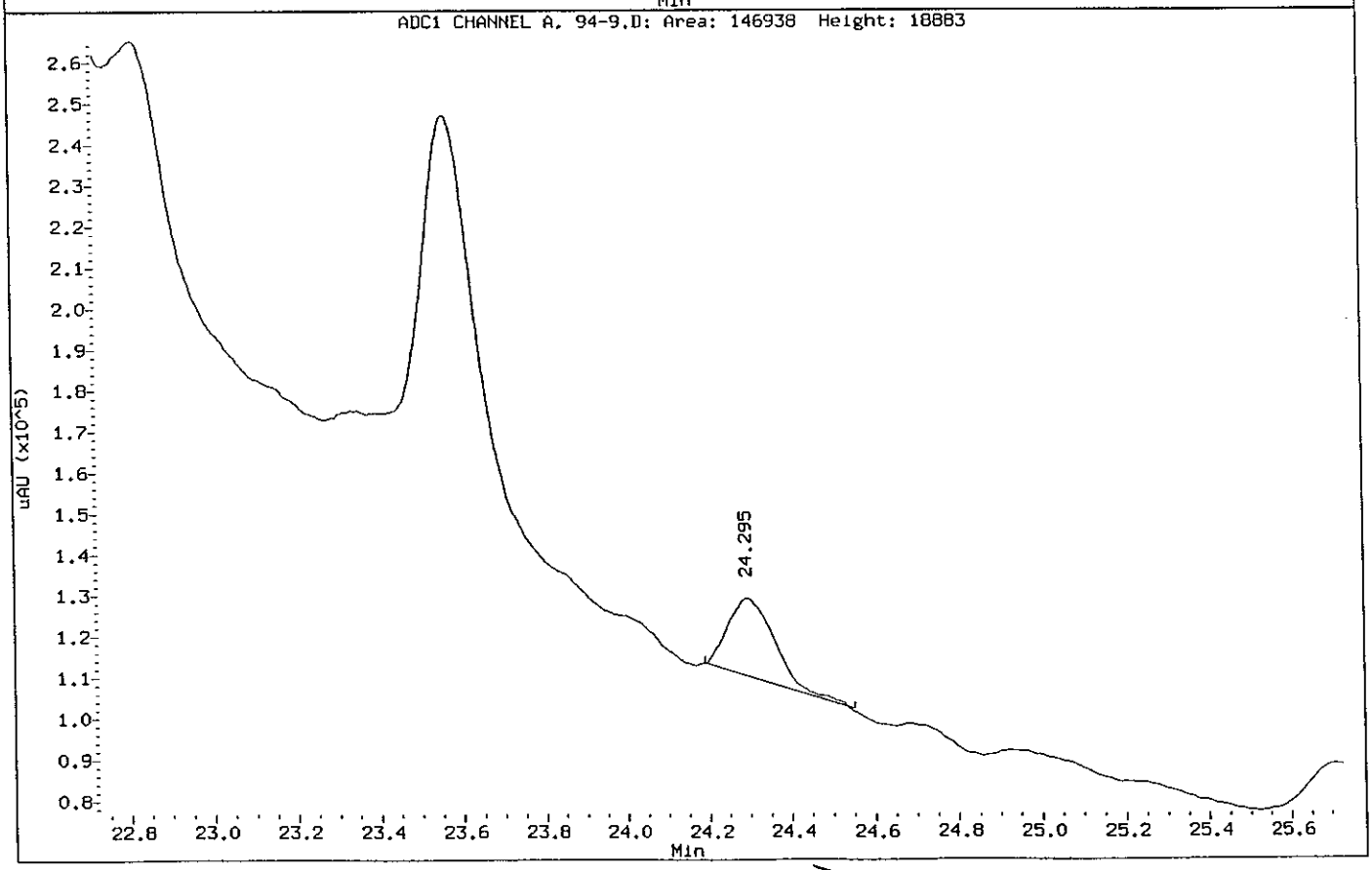
Injection Date: 29-OCT-2001 12:02
Instrument: slc02.i
Client Sample ID: 062B101S101801MSD

Compound: Benzo(ghi)Perylene
CAS Number: 191-24-2





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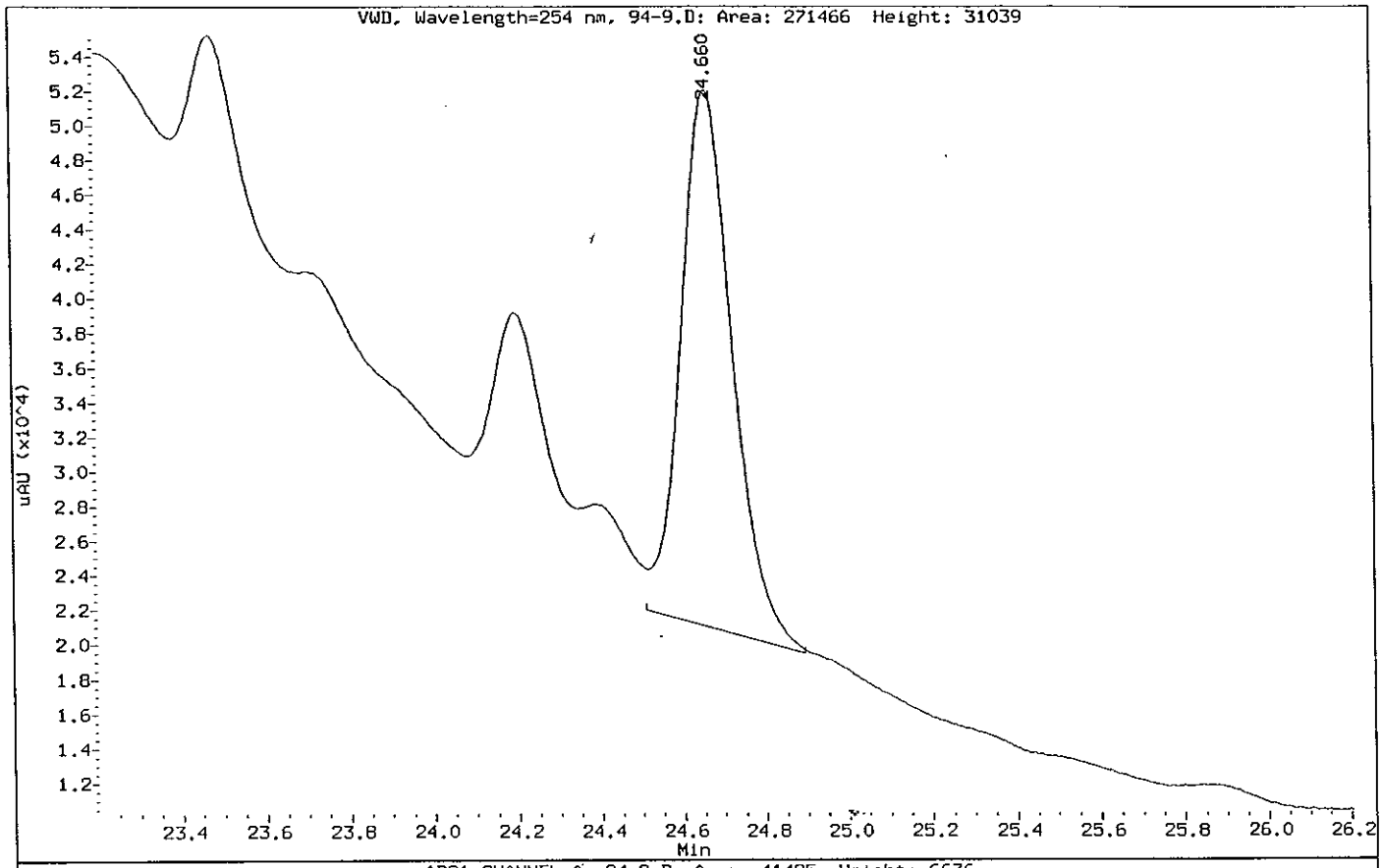
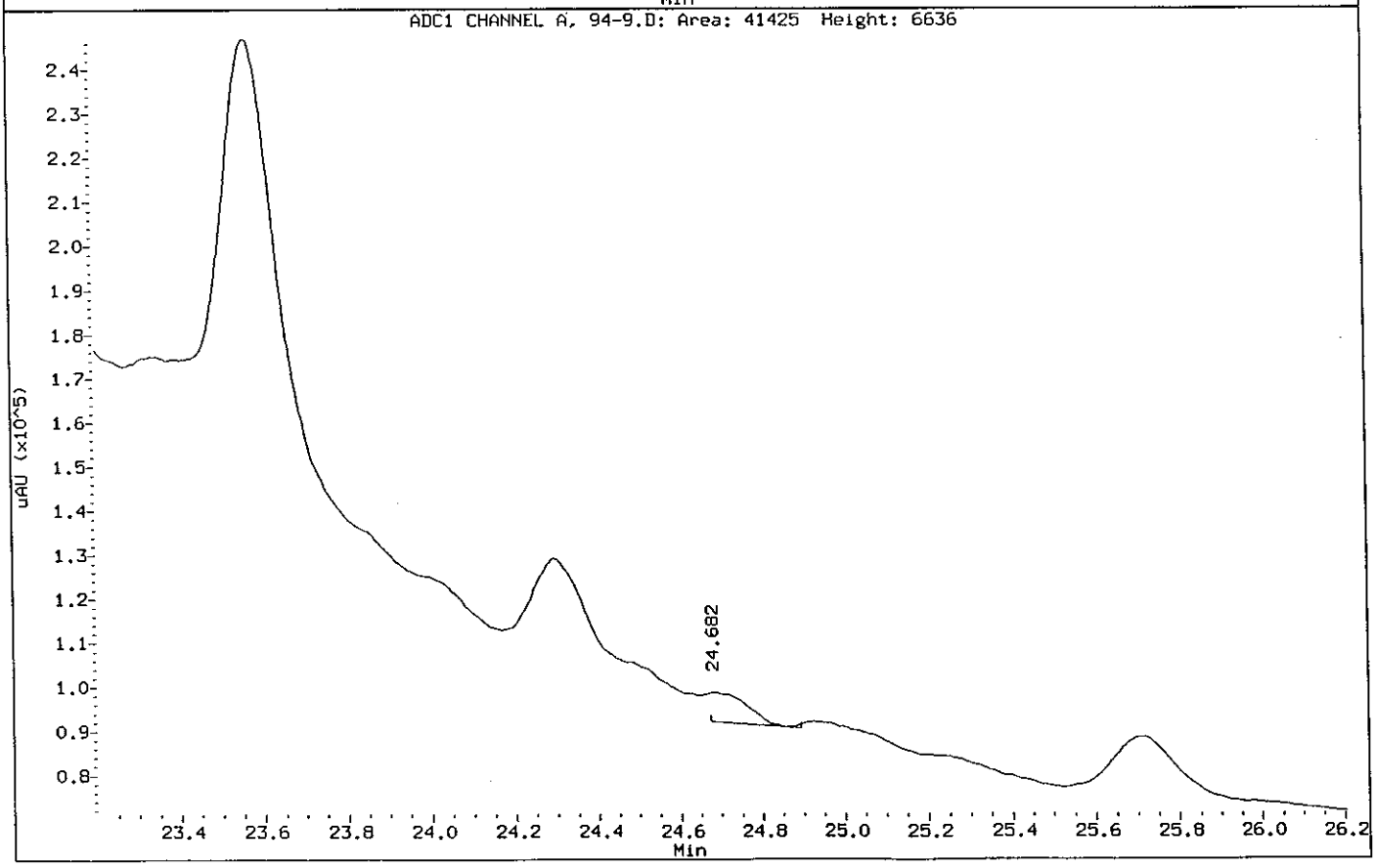
Injection Date: 29-OCT-2001 12:02
Instrument: slc02.i
Client Sample ID: 062B101S101801MSD

Compound: Indeno(123cd)Pyrene
CAS Number: 193-39-5





PEL Laboratories

Data file : \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-7.D
Lab Smp Id: 211009407 Client Smp ID: 062B101S101801
Inj Date : 29-OCT-2001 10:53
Operator : rood Inst ID: slc02.i
Smp Info : 211009407
Misc Info :
Comment :
Method : \\SVHPLC\ee\chem\slc02.i\L21028R1.b\8310S.m
Meth Date : 02-Nov-2001 08:36 jdonnelly Quant Type: ISTD
Cal Date : 28-OCT-2001 20:26 Cal File: PT2UGML.D
Als bottle: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: navy50.sub
Target Version: 4.04 Sample Matrix: SOIL
Processing Host: SVHPLC

Concentration Formula: Amt * DF * 1/((Ws*(1-(M/100)))/1000)*Vf

Name	Value	Description
DF	1.000	Dilution Factor
Ws	32.400	Extracted weight
M	11.009	% Moisture
Vf	1.000	Final Volume

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	REL RT	SIGNAL	RESPONSE	(ug/ml)	(ug/kg)	TARGET RANGE	RATIO
* 1 Carbazole (ISTD)						CAS #: 86-74-8		
11.193	10.610	(1.000)	VWD1A	739419			80.00- 120.00	100.00(M)
11.216	10.610	(1.002)	ADC1A	2064605	10.0000		652.03- 978.05	279.22
3 Acenaphthylene						CAS #: 208-96-8		
13.313	13.013	(1.189)	VWD1A	180754	41.9707	1460		(AM)
4 1-Methyl naphthalene						CAS #: 90-12-0		
13.926	13.633	(1.244)	VWD1A	20969	5.93300	206	80.00- 120.00	100.00(M)
14.028	13.633	(1.253)	ADC1A	154497	11.8121	410	296.60- 444.90	736.79
5 2-Methyl naphthalene						CAS #: 91-57-6		
14.273	13.973	(1.275)	VWD1A	157545	31.4838	1090	80.00- 120.00	100.00(M)
14.336	13.973	(1.281)	ADC1A	87709	7.92873	275	191.55- 287.32	55.67

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	REL RT	SIGNAL	RESPONSE	(ug/ml)	(ug/kg)	TARGET RANGE	RATIO
6 Acenaphthene							CAS #: 83-32-9	
14.610	14.310	(1.305)	VWD1A	11145	4.91421	170	80.00- 120.00	100.00(MH)
14.676	14.310	(1.311)	ADC1A	148847	5.72612	198	964.12-1446.17	1335.55
7 Fluorene							CAS #: 86-73-7	
14.946	14.680	(1.335)	VWD1A	242475	9.26196	321	80.00- 120.00	100.00(M)
15.016	14.680	(1.342)	ADC1A	5822	1.83599	63.7	9.06- 13.59	2.40
8 Phenanthrene							CAS #: 85-01-8	
15.736	15.500	(1.406)	VWD1A	1914232	26.2868	912	80.00- 120.00	100.00(M)
15.831	15.500	(1.414)	ADC1A	3644553	52.7377	1830	78.58- 117.87	190.39
10 Fluoranthene							CAS #: 206-44-0	
17.283	17.066	(1.544)	VWD1A	804679	46.2228	1600	80.00- 120.00	100.00(AM)
17.359	17.066	(1.551)	ADC1A	616375			6.36- 9.54	76.60
11 Pyrene							CAS #: 129-00-0	
17.740	17.606	(1.585)	VWD1A	77387	5.79202	201	80.00- 120.00	100.00(MH)
17.861	17.606	(1.596)	ADC1A	904649	5.06867	176	930.64-1395.96	1168.99
$ 12 p-Terphenyl-d14 (SURR)							CAS #: 1718-51-0	
18.756	18.593	(1.676)	VWD1A	930531	60.1186	2080	80.00- 120.00	100.00(ARM)
18.864	18.593	(1.685)	ADC1A	15891958	37.5114	1300	2246.35-3369.53	1707.84
14 Chrysene							CAS #: 218-01-9	
19.856	19.820	(1.774)	VWD1A	1919324	32.8937	1140	80.00- 120.00	100.00(MH)
19.931	19.820	(1.781)	ADC1A	4873439	35.0692	1220	190.14- 285.21	253.91

QC Flag Legend

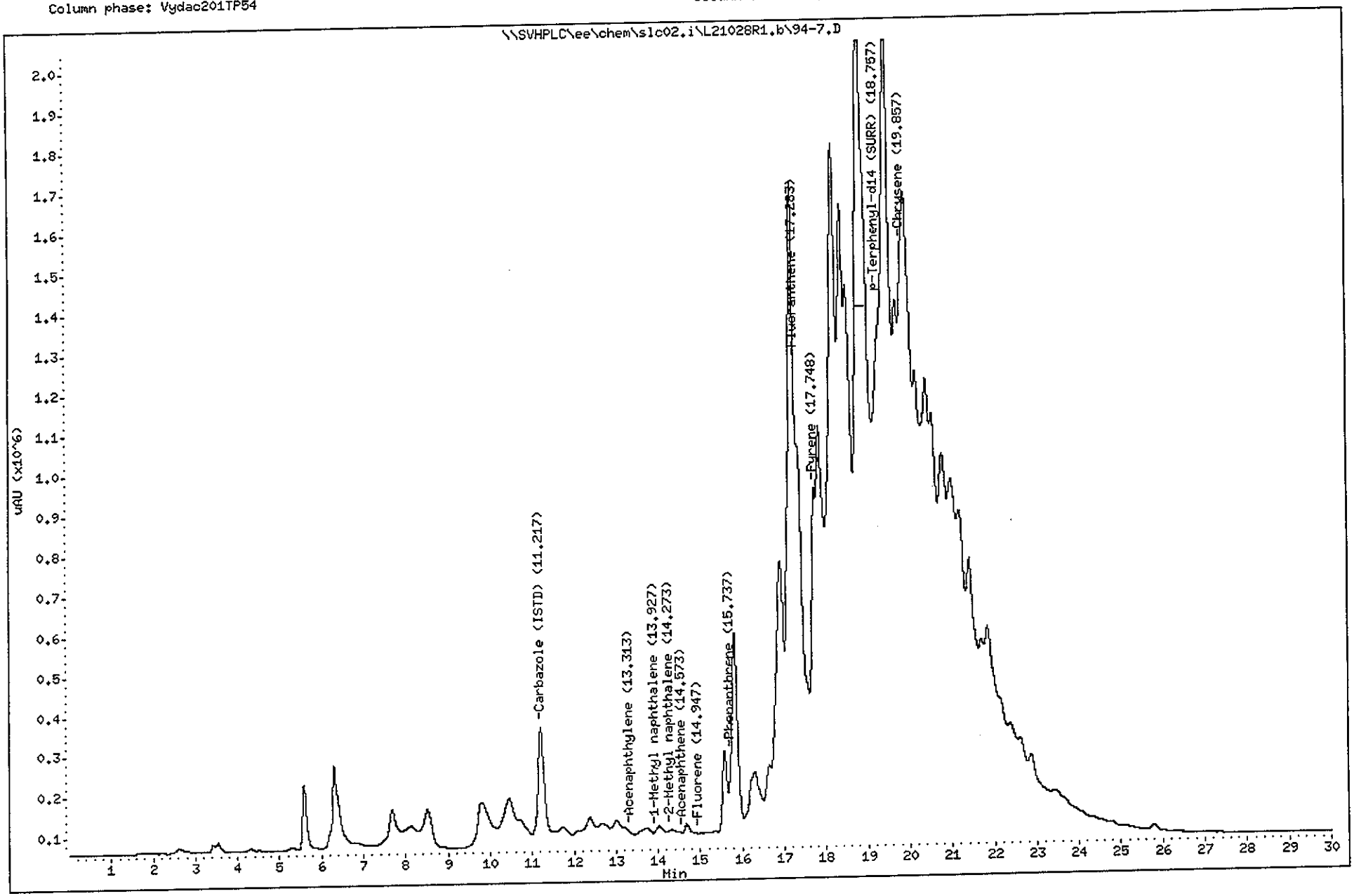
A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-7.D
Date : 29-OCT-2001 10:53
Client ID: 062B101S101801
Sample Info: 211009407

Instrument: slc02.i

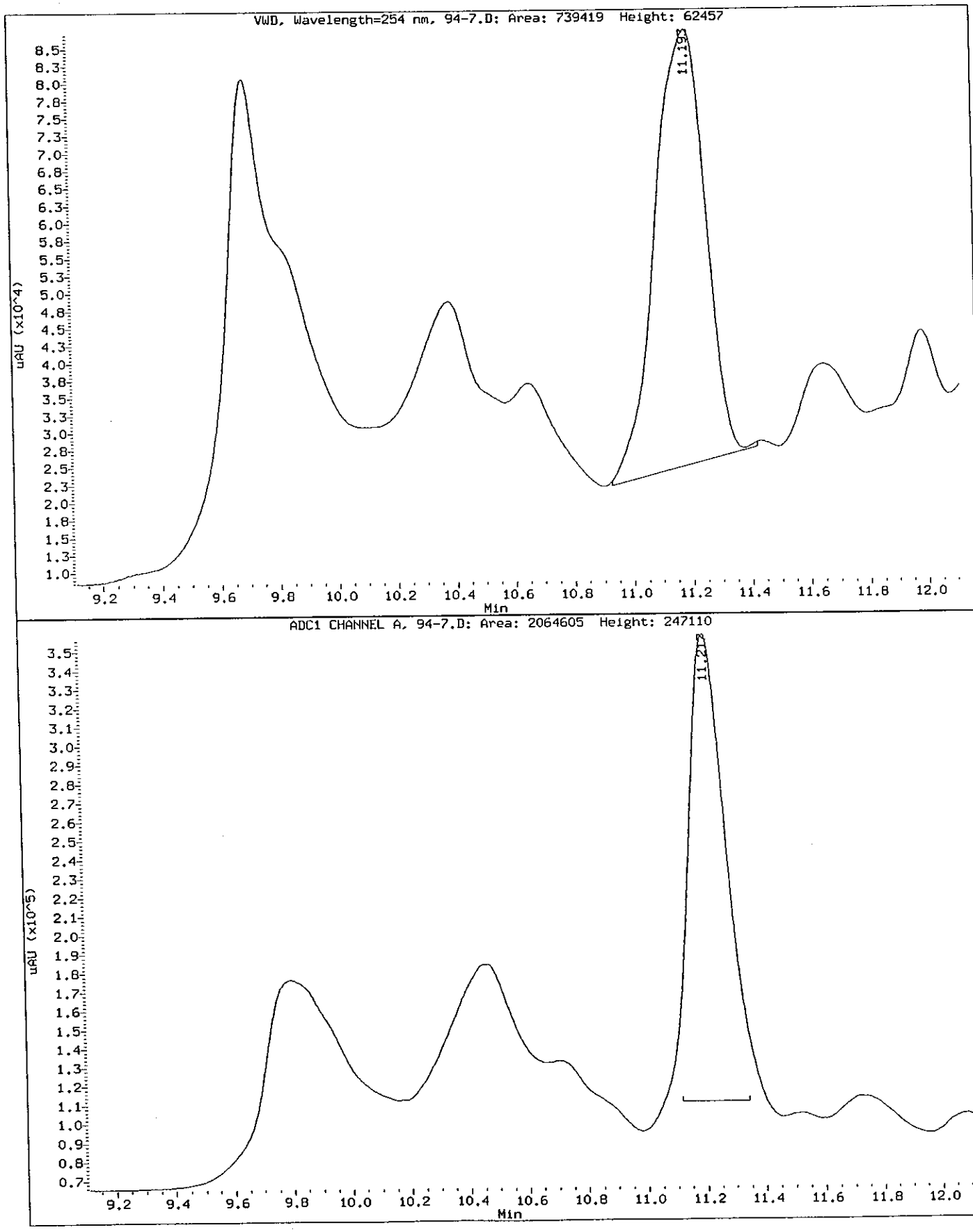
Operator: rood
Column diameter: 4.60

Column phase: Vydac201TP54



Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-7.D
Injection Date: 29-OCT-2001 10:53
Instrument: slc02.i
Client Sample ID: 062B101S101801

Compound: Carbazole (ISTD)
CAS Number: 86-74-8



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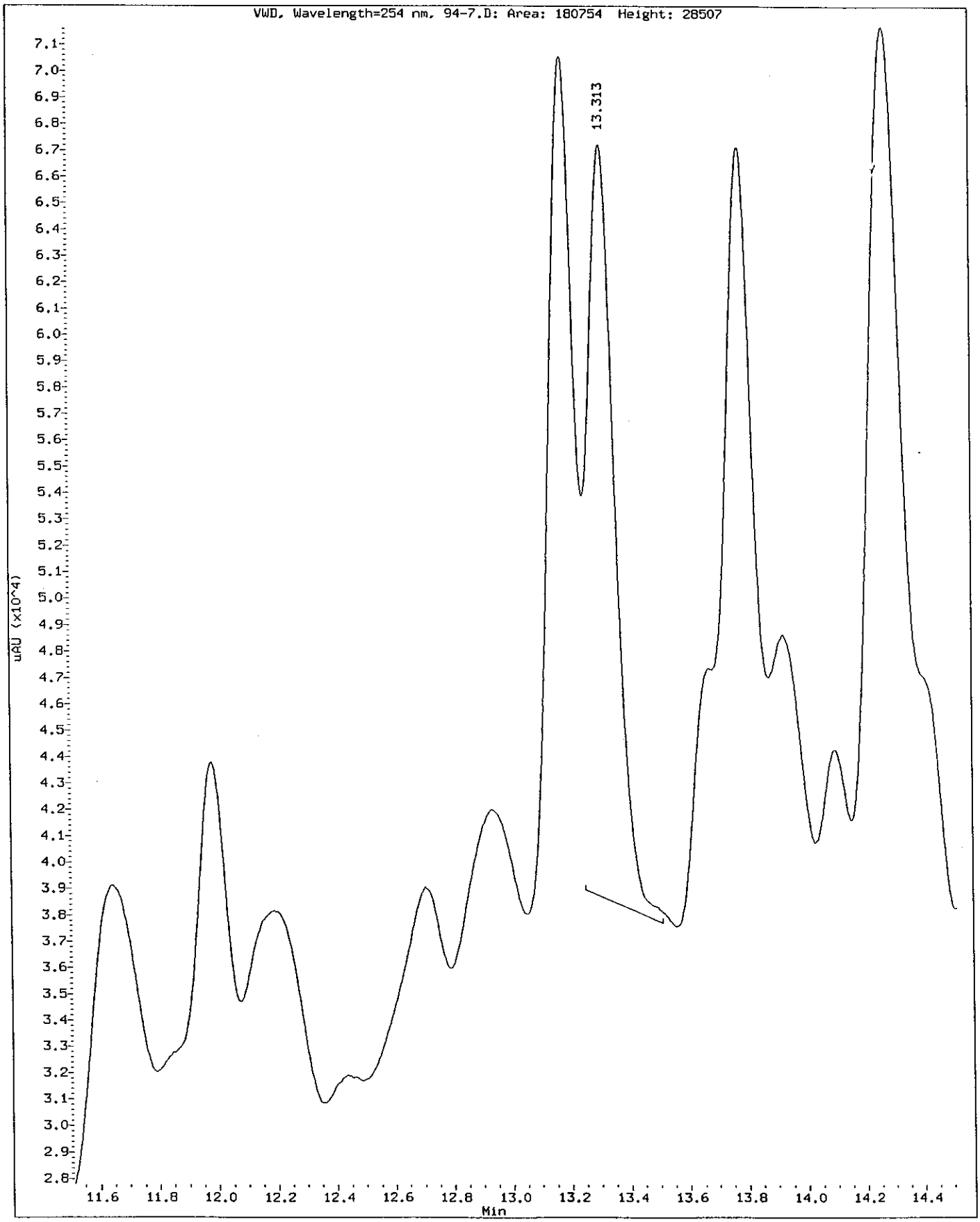
Injection Date: 29-OCT-2001 10:53
Instrument: slc02.i
Client Sample ID: 062B101S101801

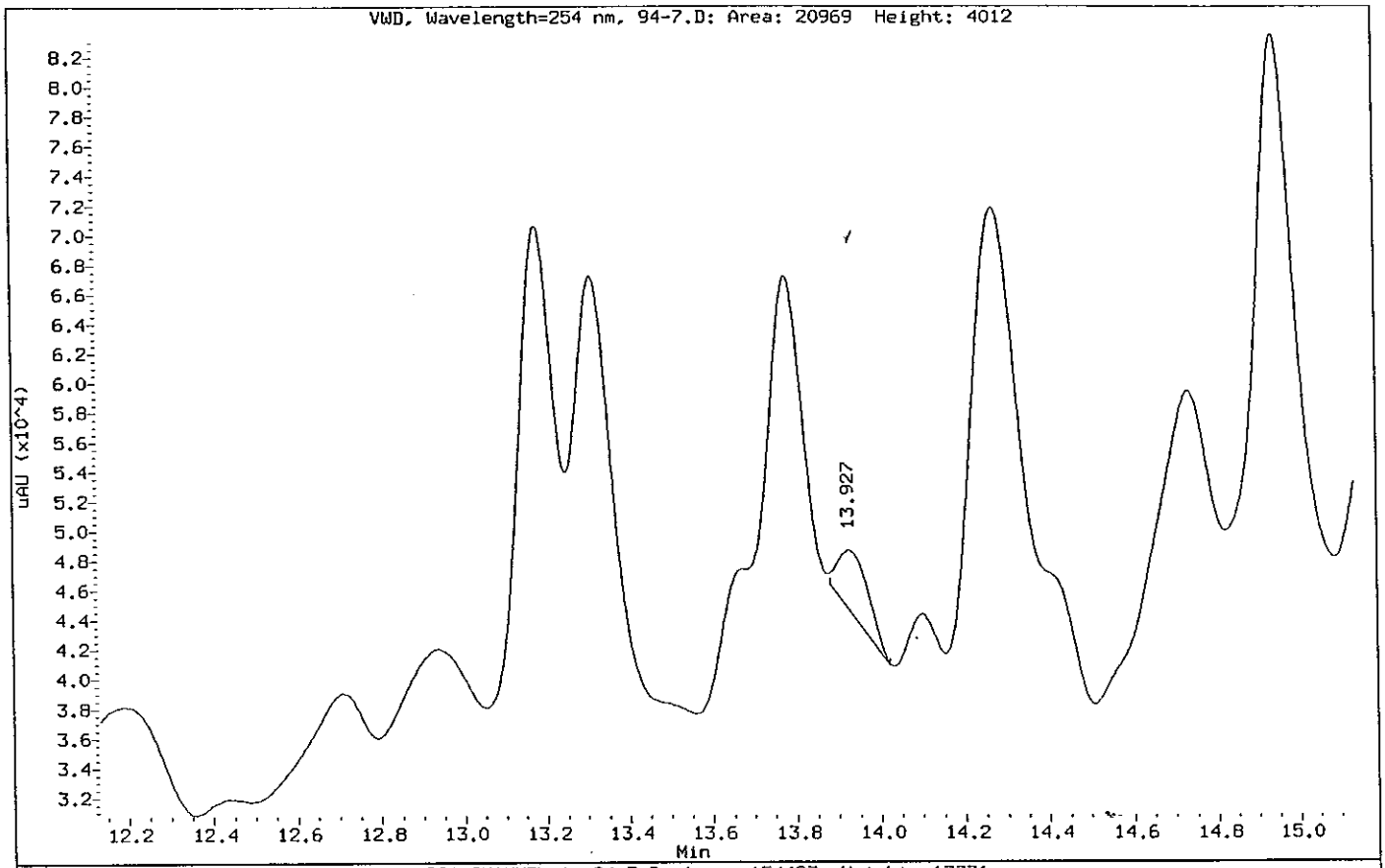
Compound: Acenaphthylene
CAS Number: 208-96-8

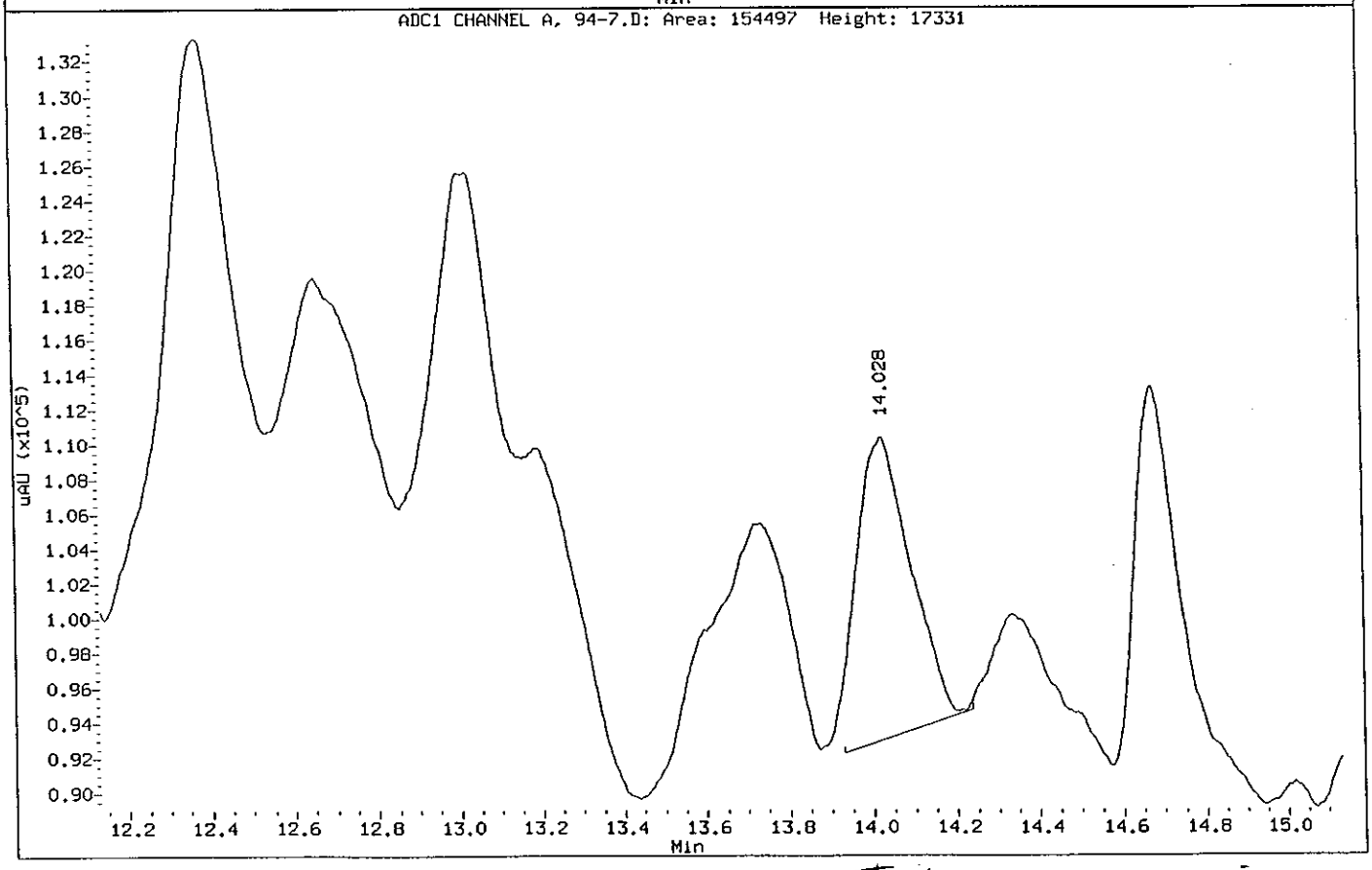


FID

Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-7.D
Injection Date: 29-OCT-2001 10:53
Instrument: slc02.i
Client Sample ID: 062B101S101801

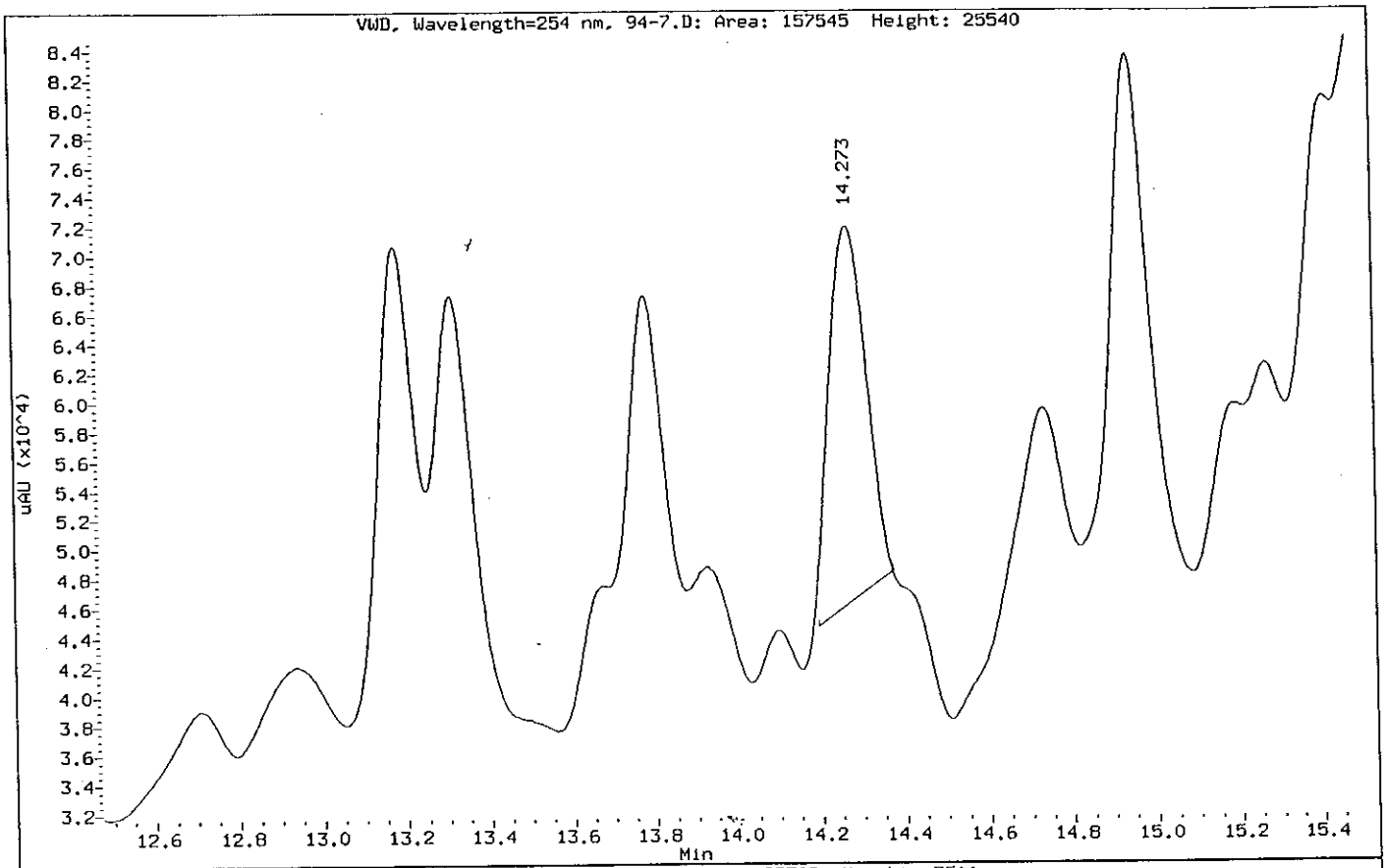
Compound: 1-Methyl naphthalene
CAS Number: 90-12-0

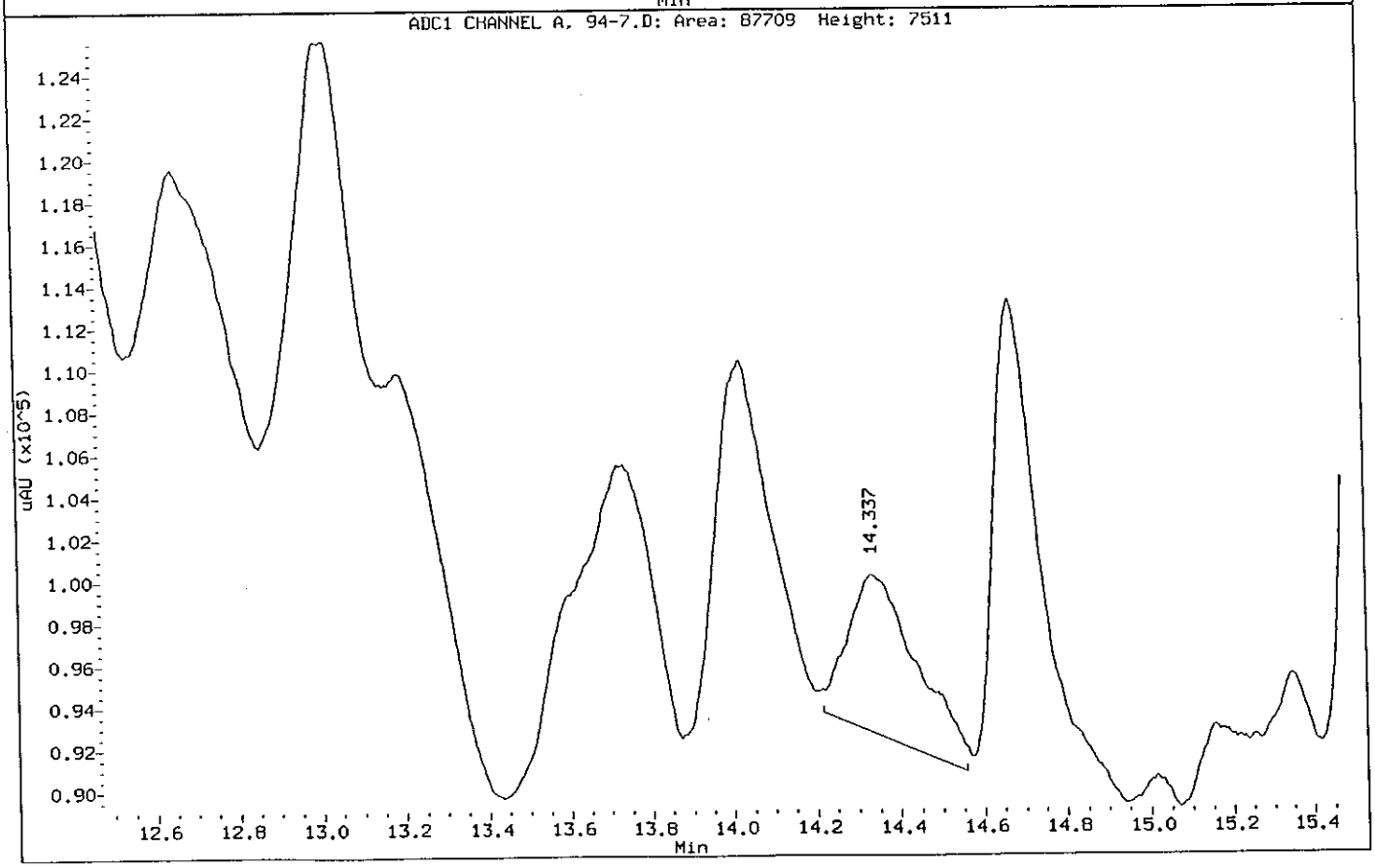




Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-7.D
Injection Date: 29-OCT-2001 10:53
Instrument: slc02.i
Client Sample ID: 062B1015101801

Compound: 2-Methyl naphthalene
CAS Number: 91-57-6





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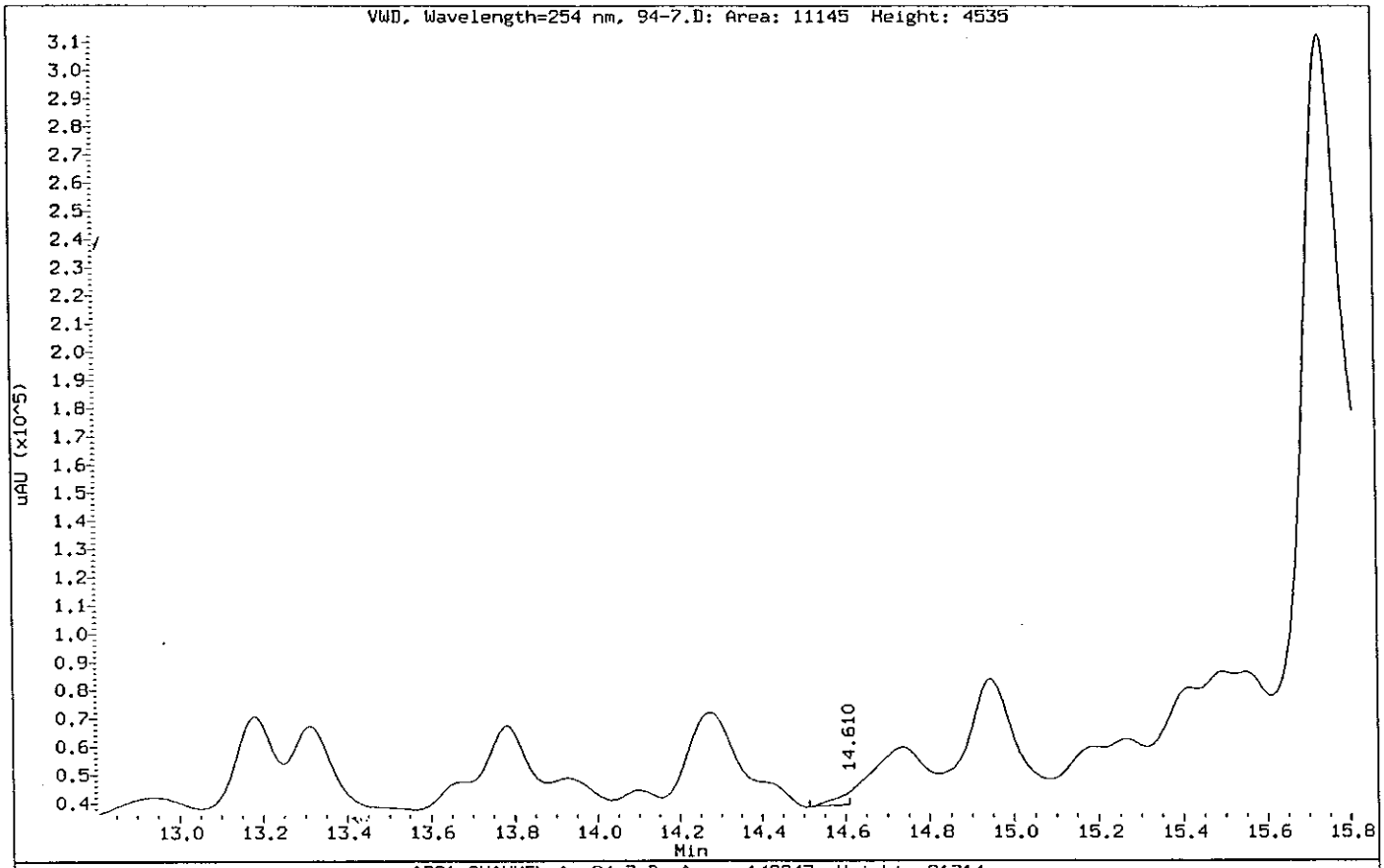
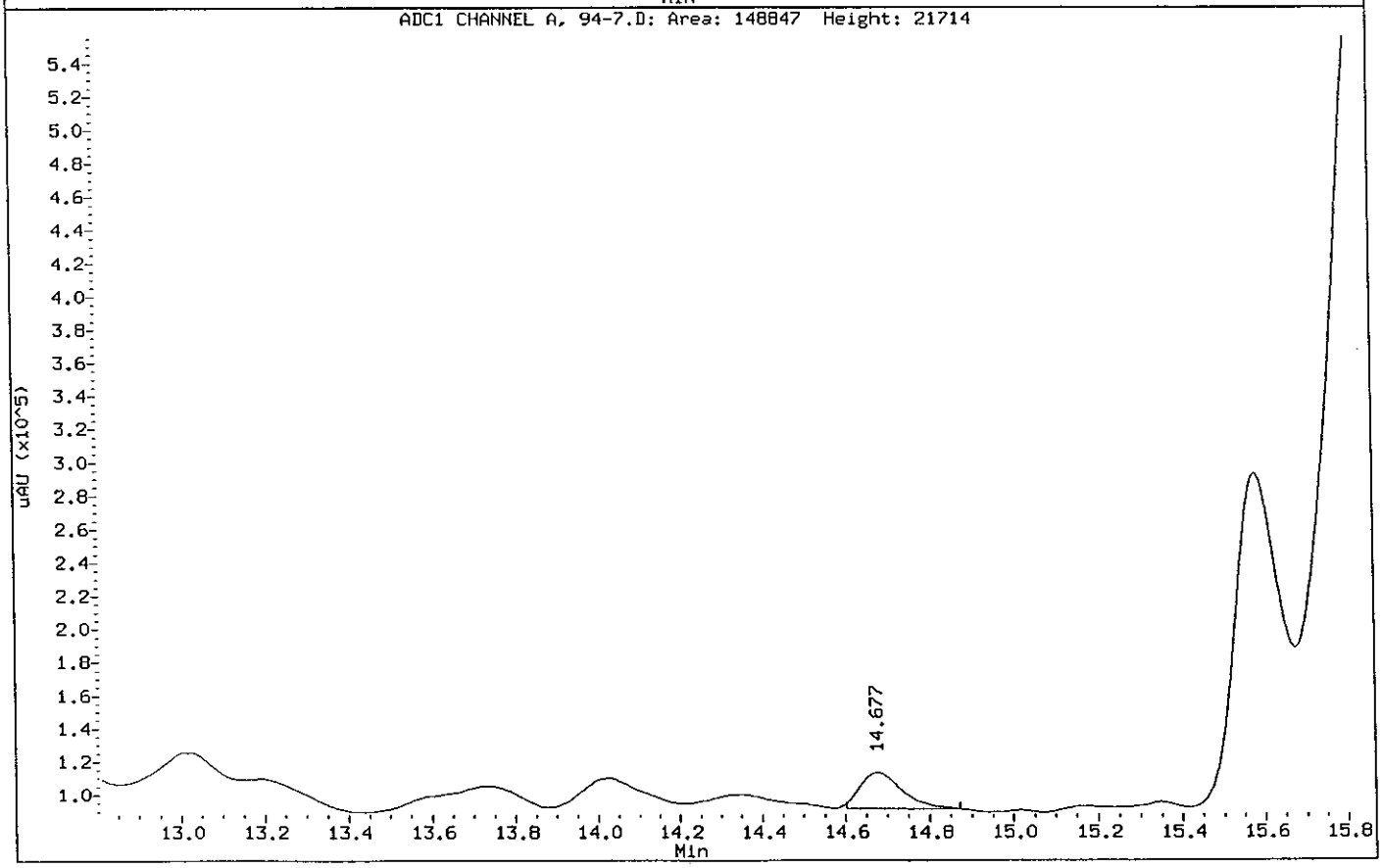
Injection Date: 29-OCT-2001 10:53
Instrument: slc02.i
Client Sample ID: 062B101S101801

Compound: Acenaphthene
CAS Number: 83-32-9





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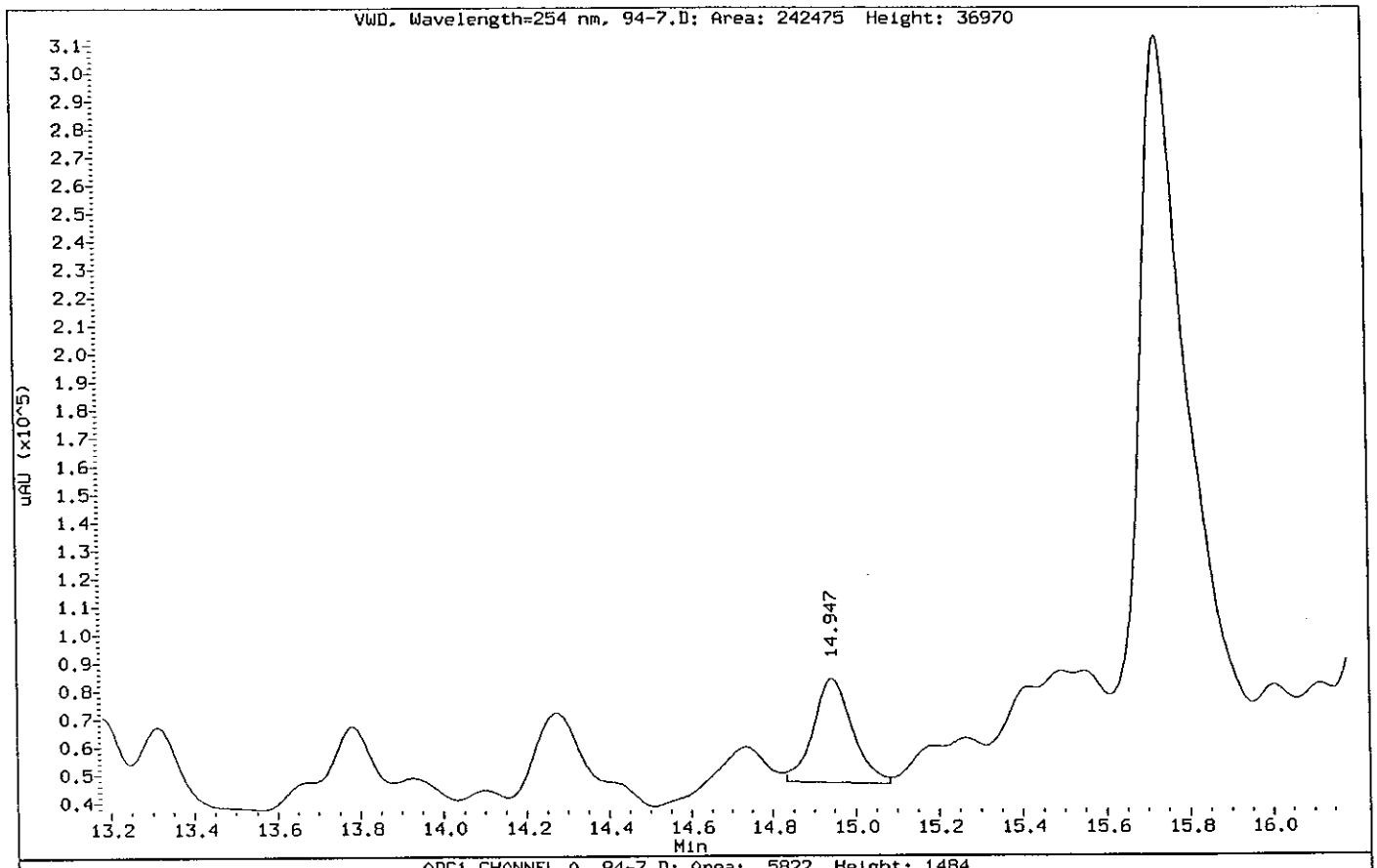
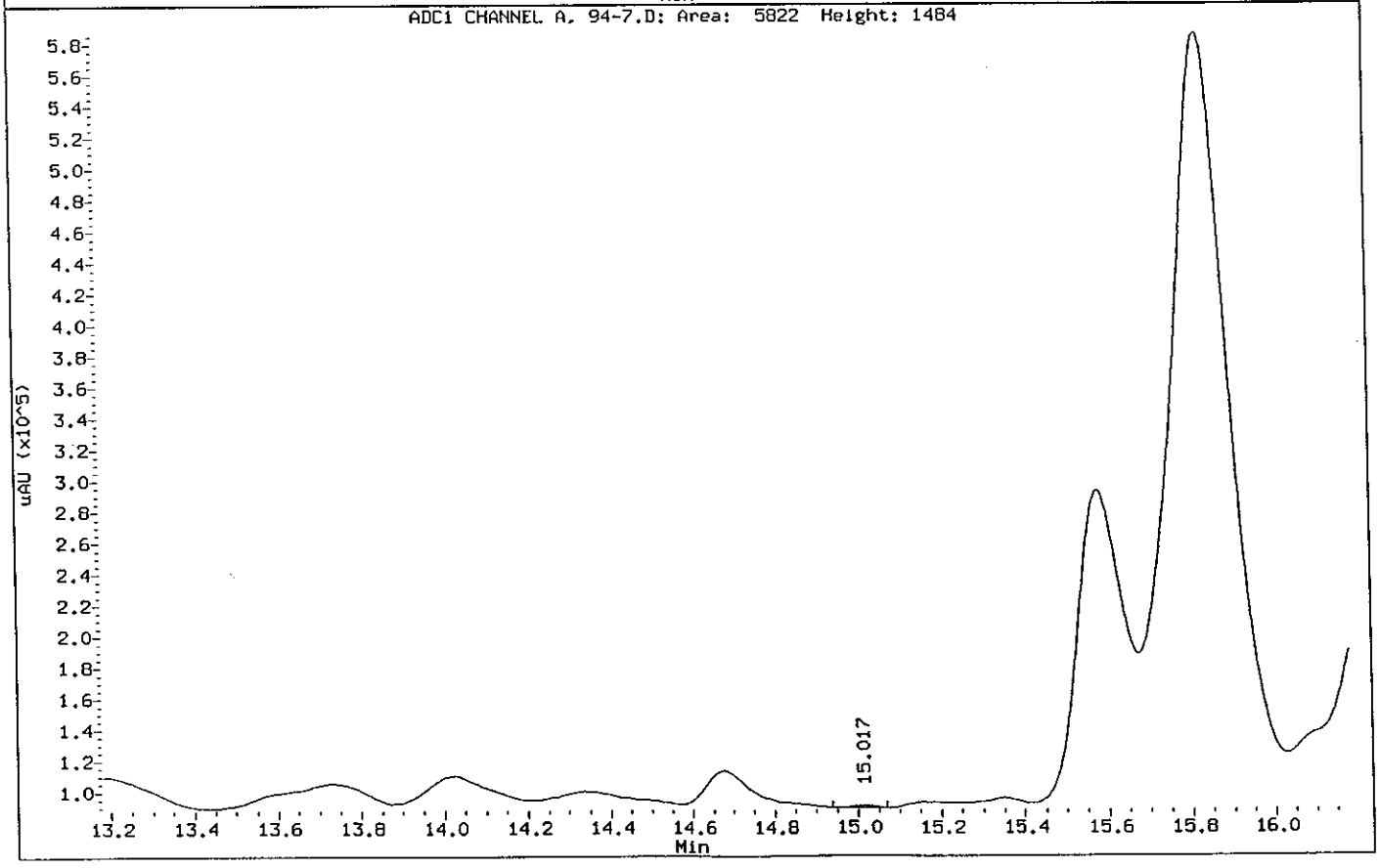
Injection Date: 29-OCT-2001 10:53
Instrument: slc02.i
Client Sample ID: 062B101S101801

Compound: Fluorene
CAS Number: 86-73-7

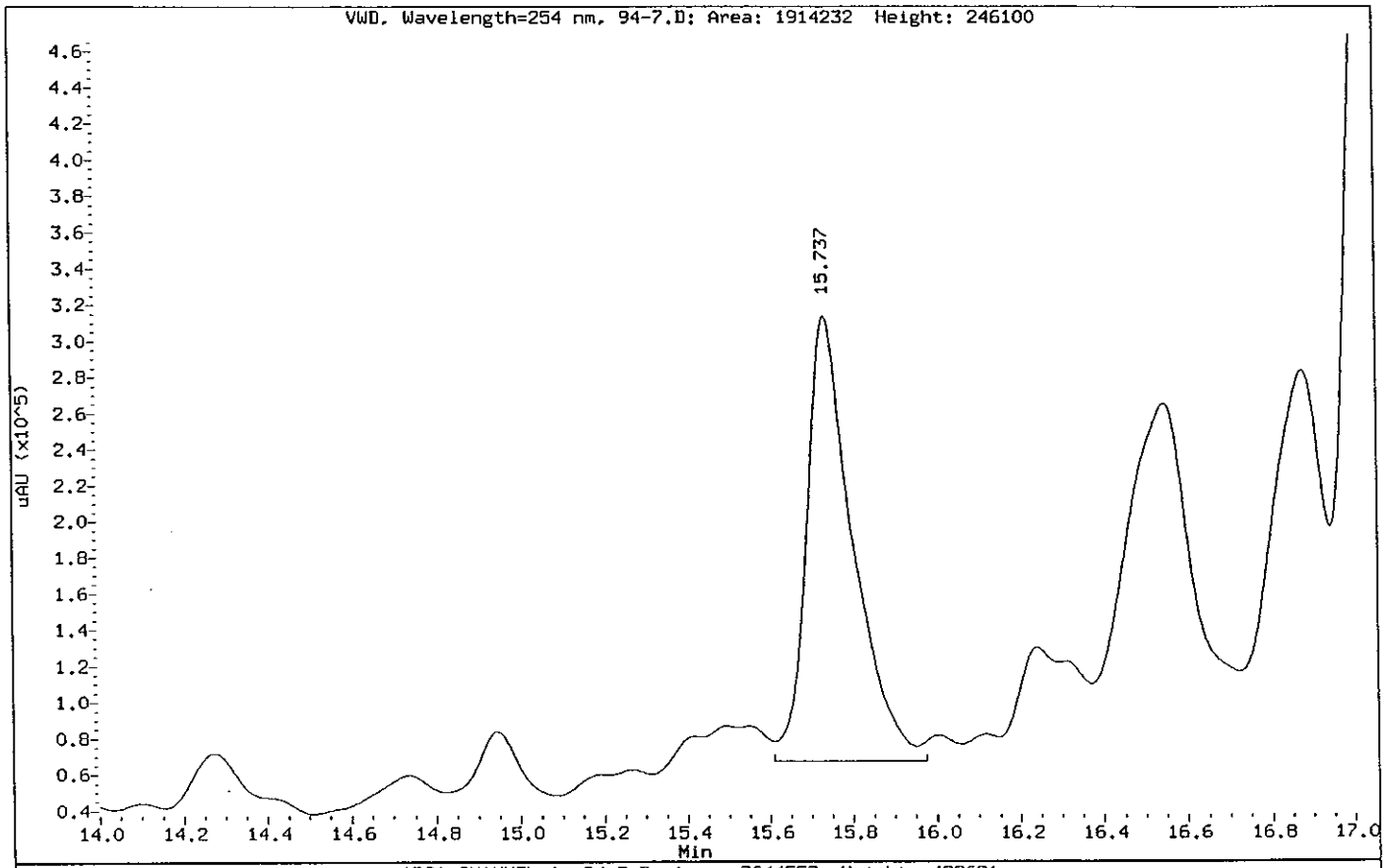


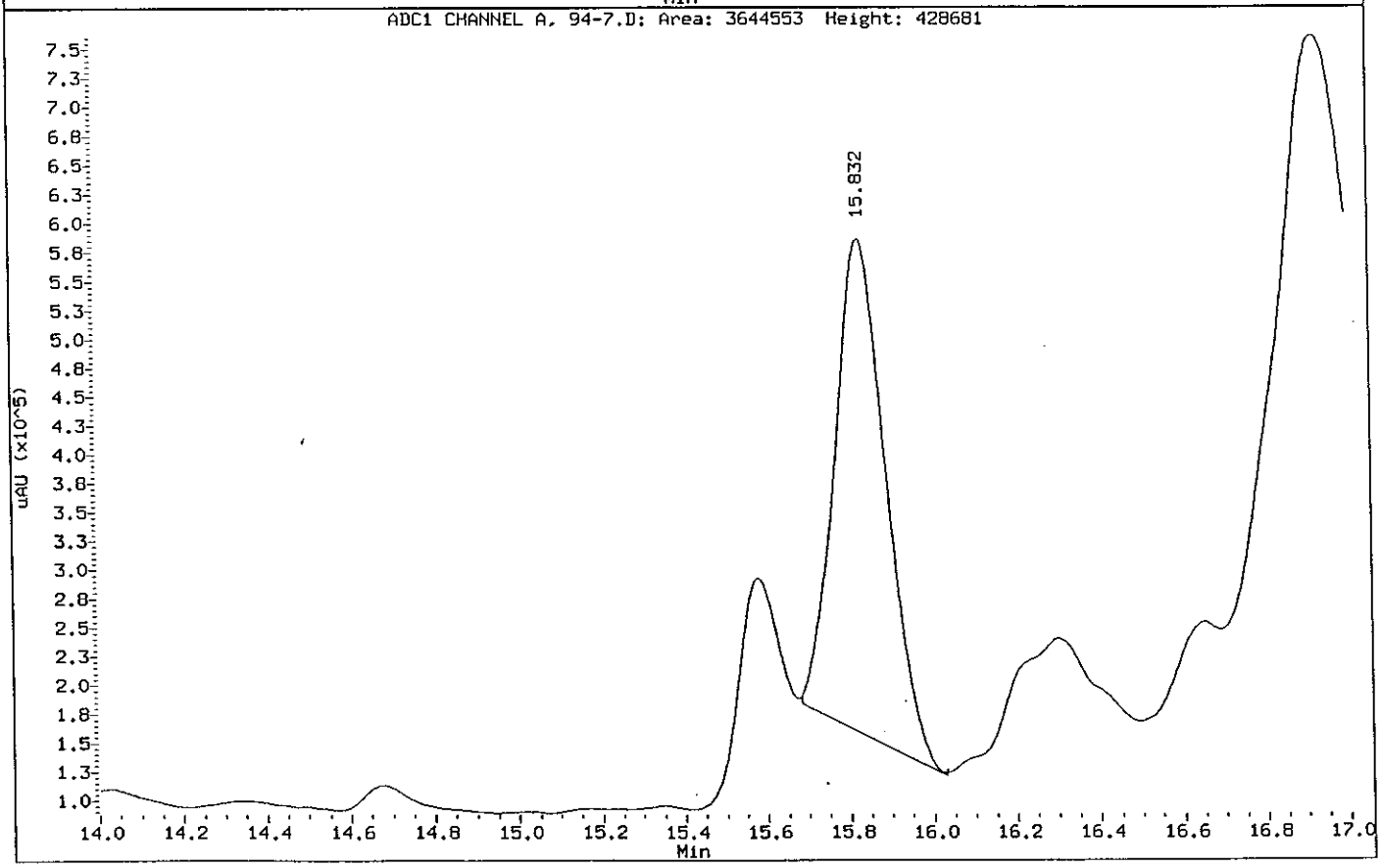


JWD

Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-7.D
Injection Date: 29-OCT-2001 10:53
Instrument: slc02.i
Client Sample ID: 062B101S101801

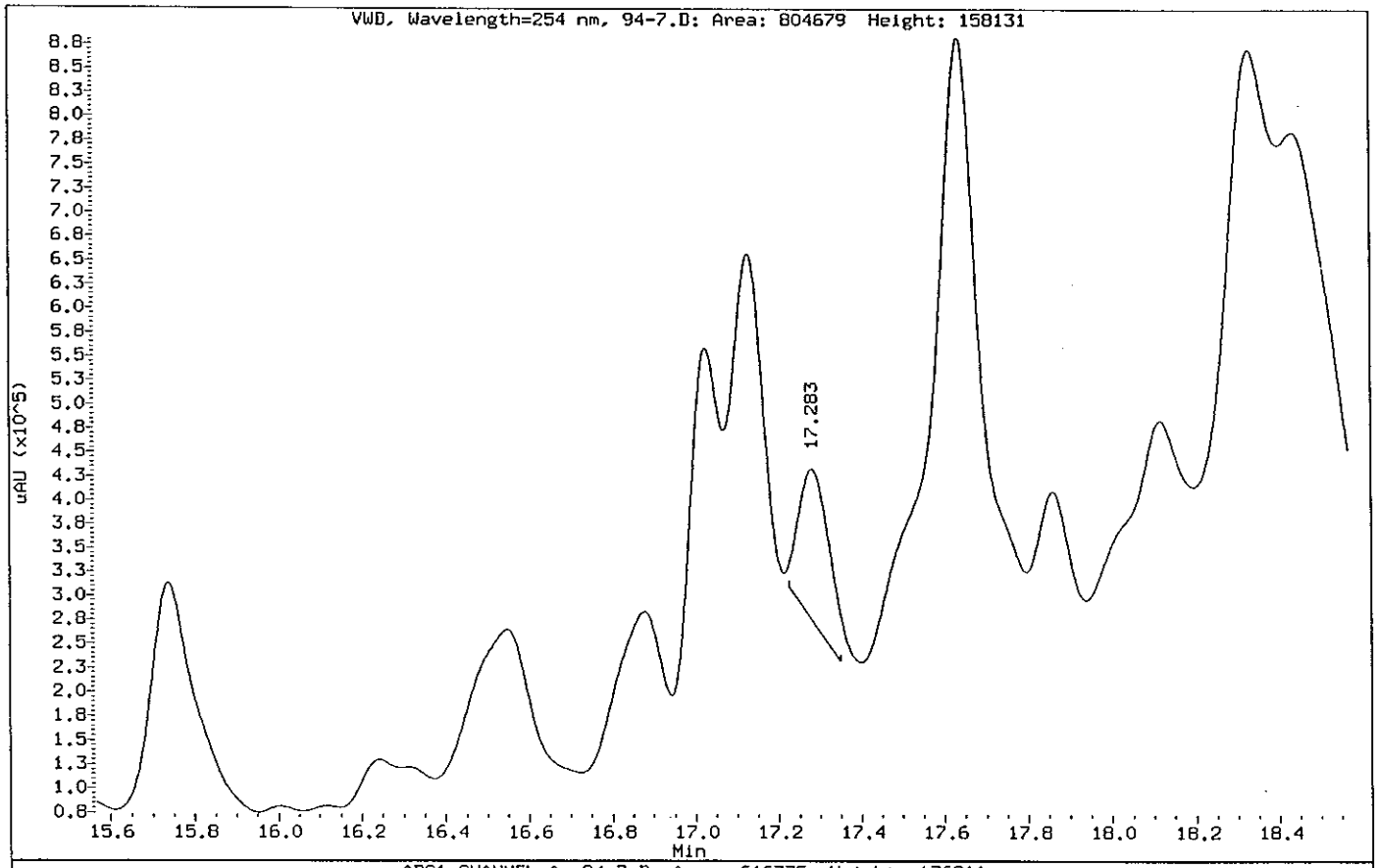
Compound: Phenanthrene
CAS Number: 85-01-8

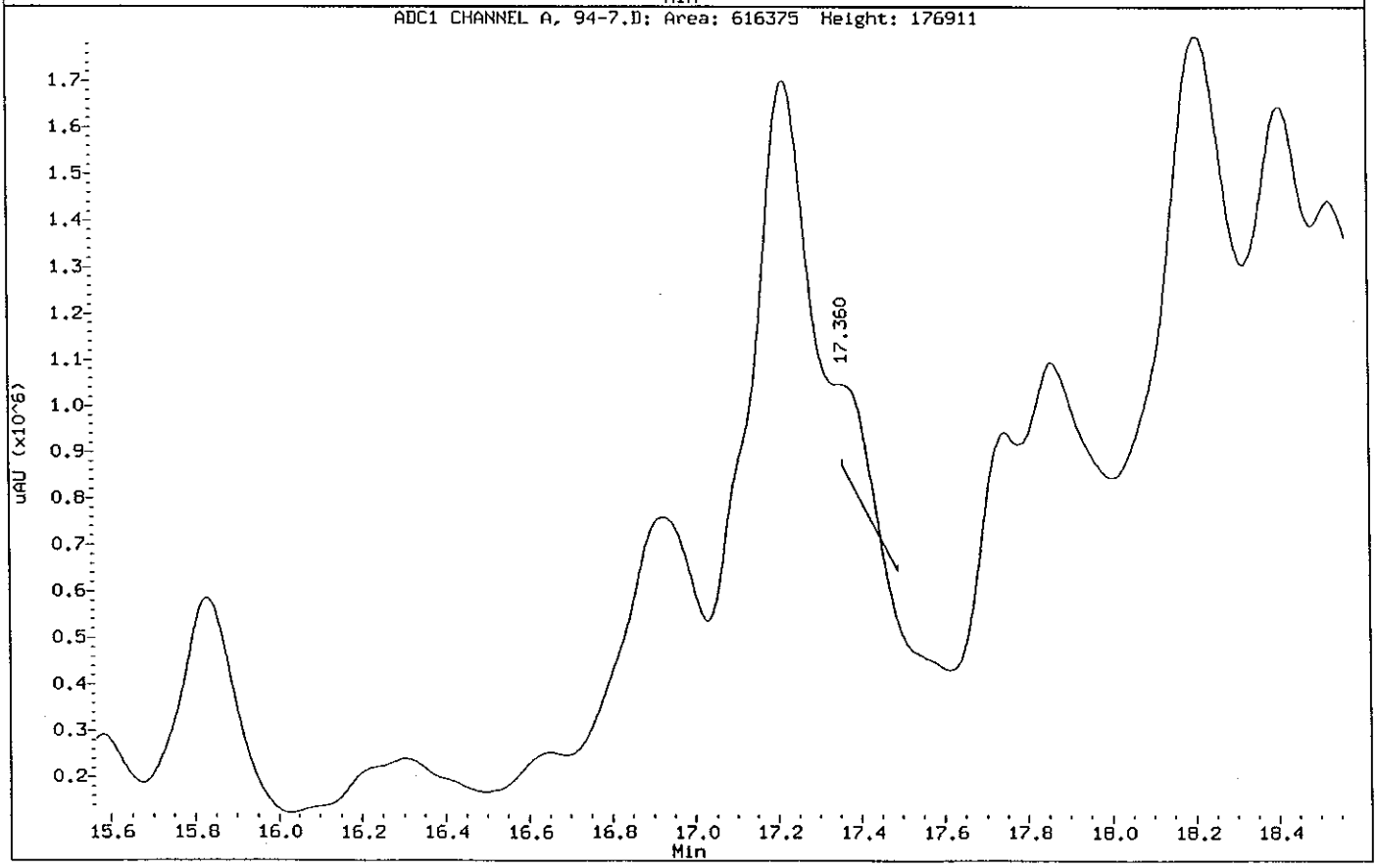




Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-7.D
Injection Date: 29-OCT-2001 10:53
Instrument: slc02.i
Client Sample ID: 062B101S101B01

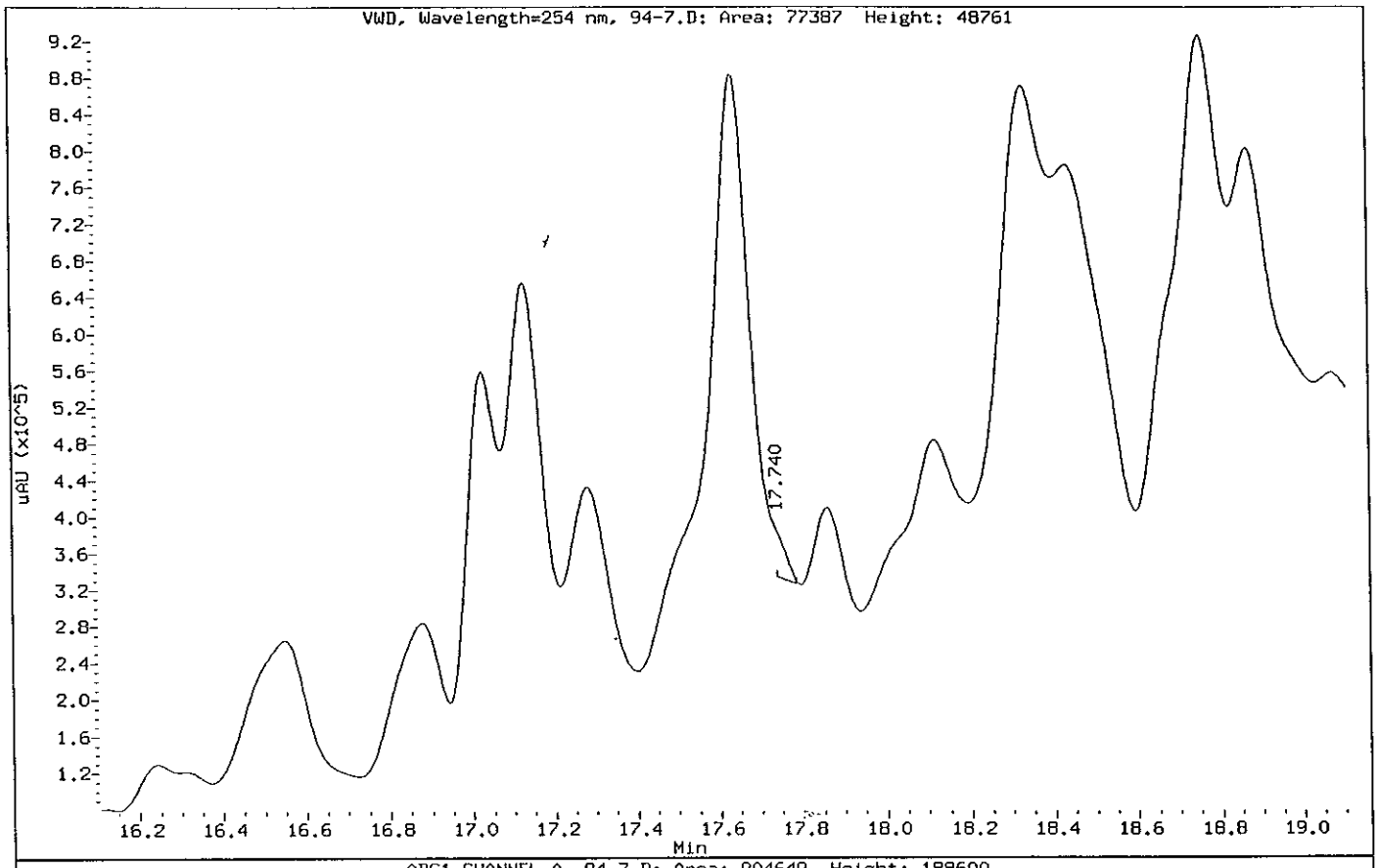
Compound: Fluoranthene
CAS Number: 206-44-0

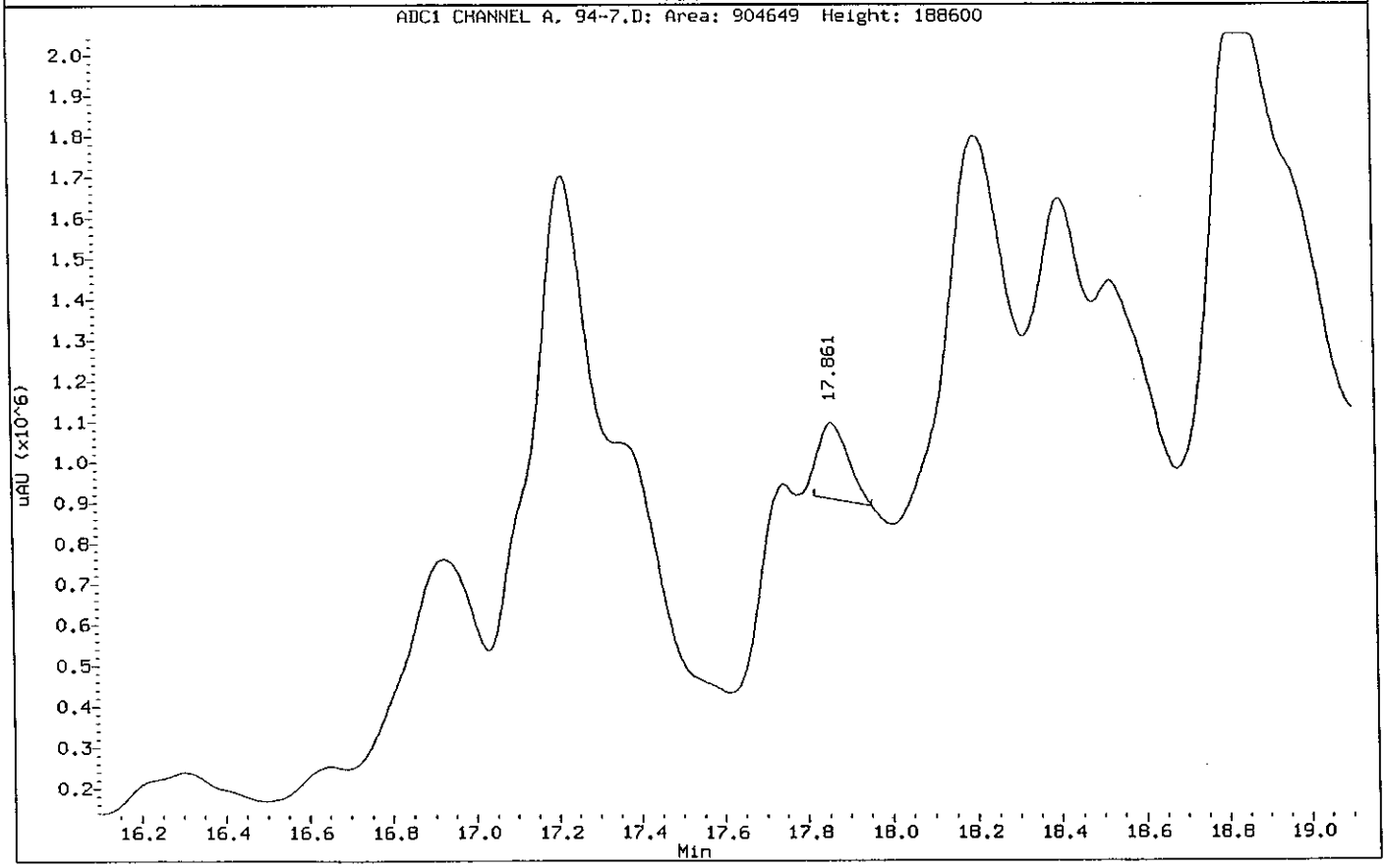




Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-7.D
Injection Date: 29-OCT-2001 10:53
Instrument: slc02.i
Client Sample ID: 062B101S101801

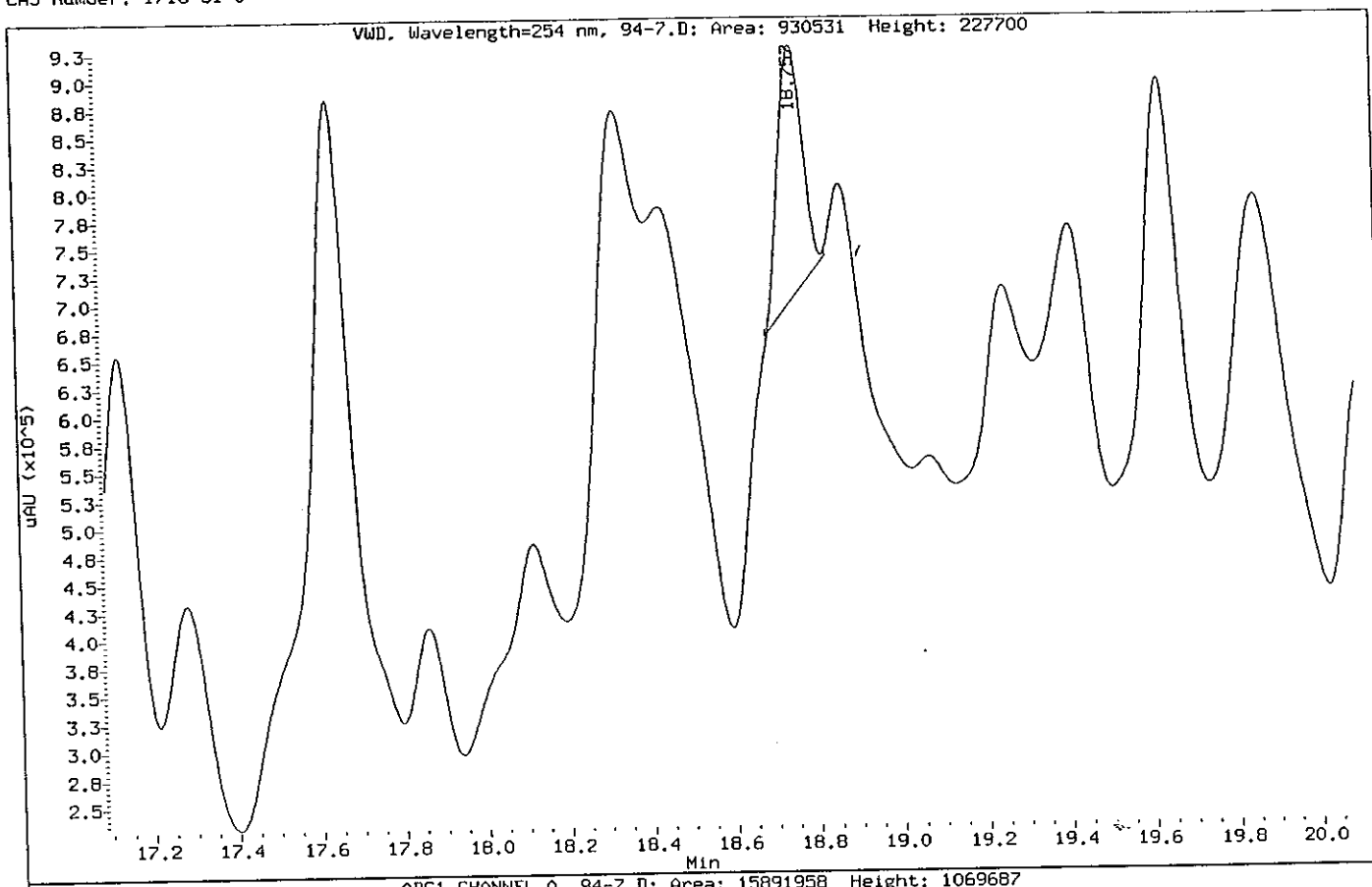
Compound: Pyrene
CAS Number: 129-00-0

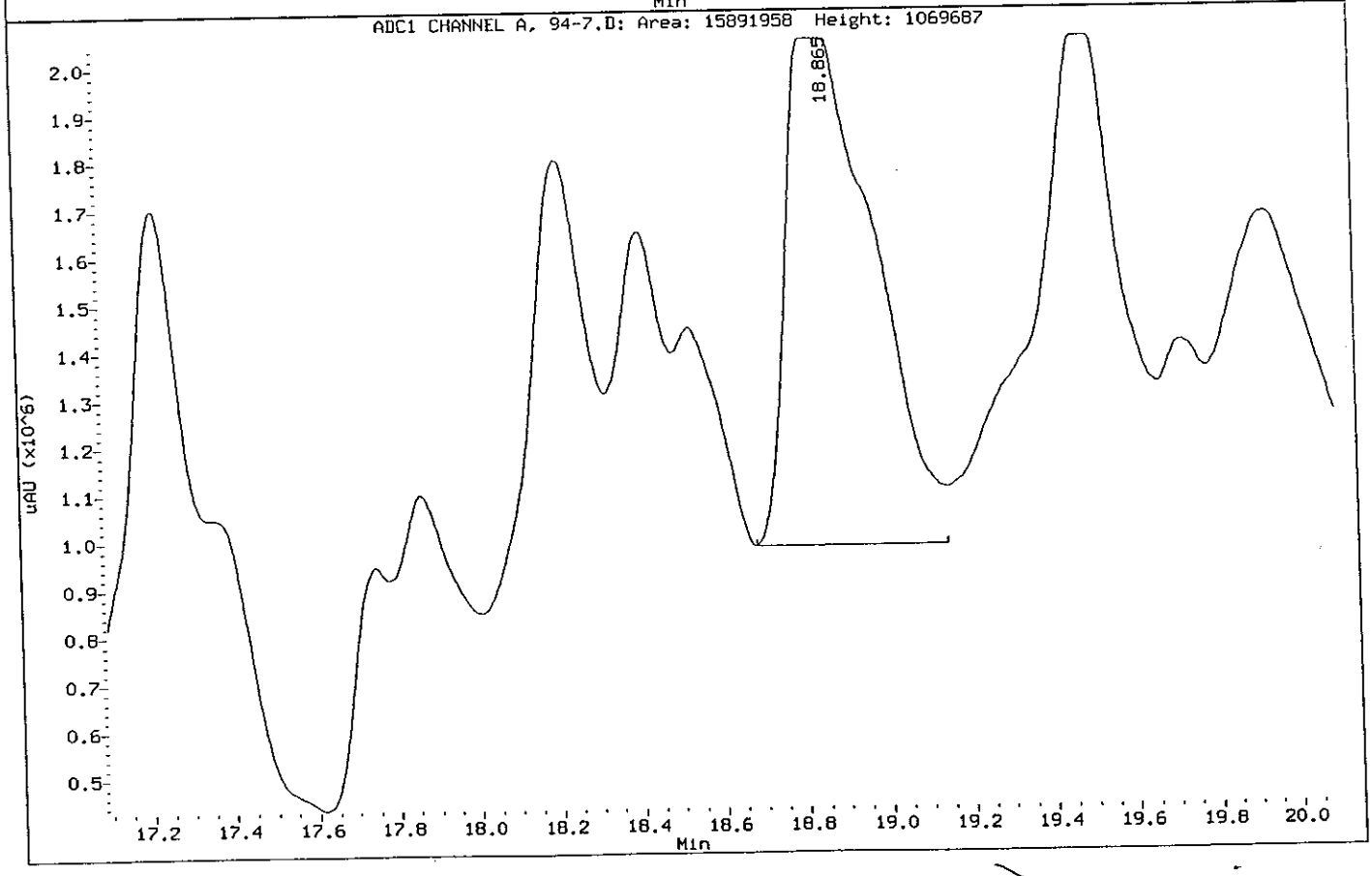




Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-7.D
Injection Date: 29-OCT-2001 10:53
Instrument: slc02.i
Client Sample ID: 062B101S101801

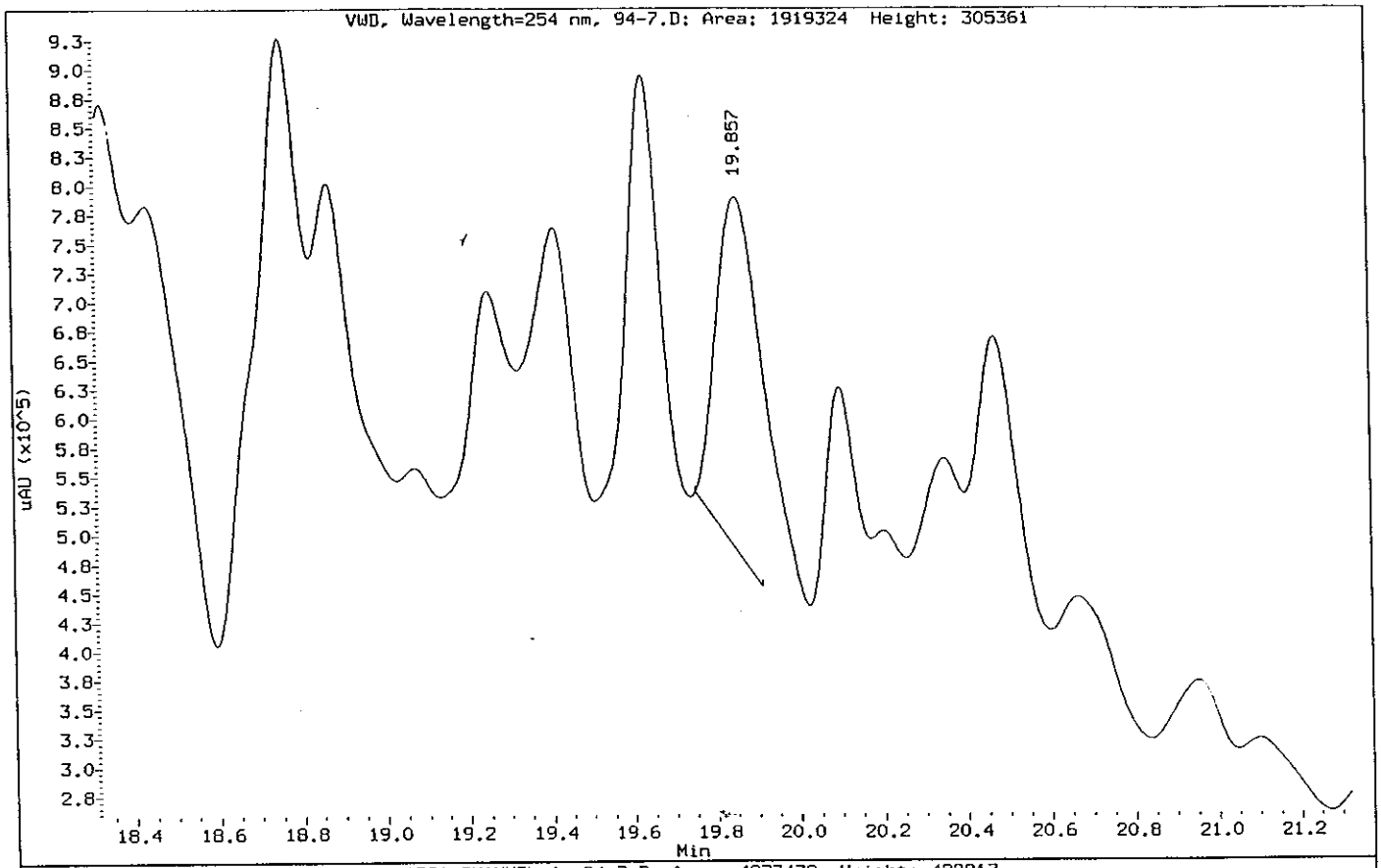
Compound: p-Terphenyl-d14 (SURR)
CAS Number: 1718-51-0

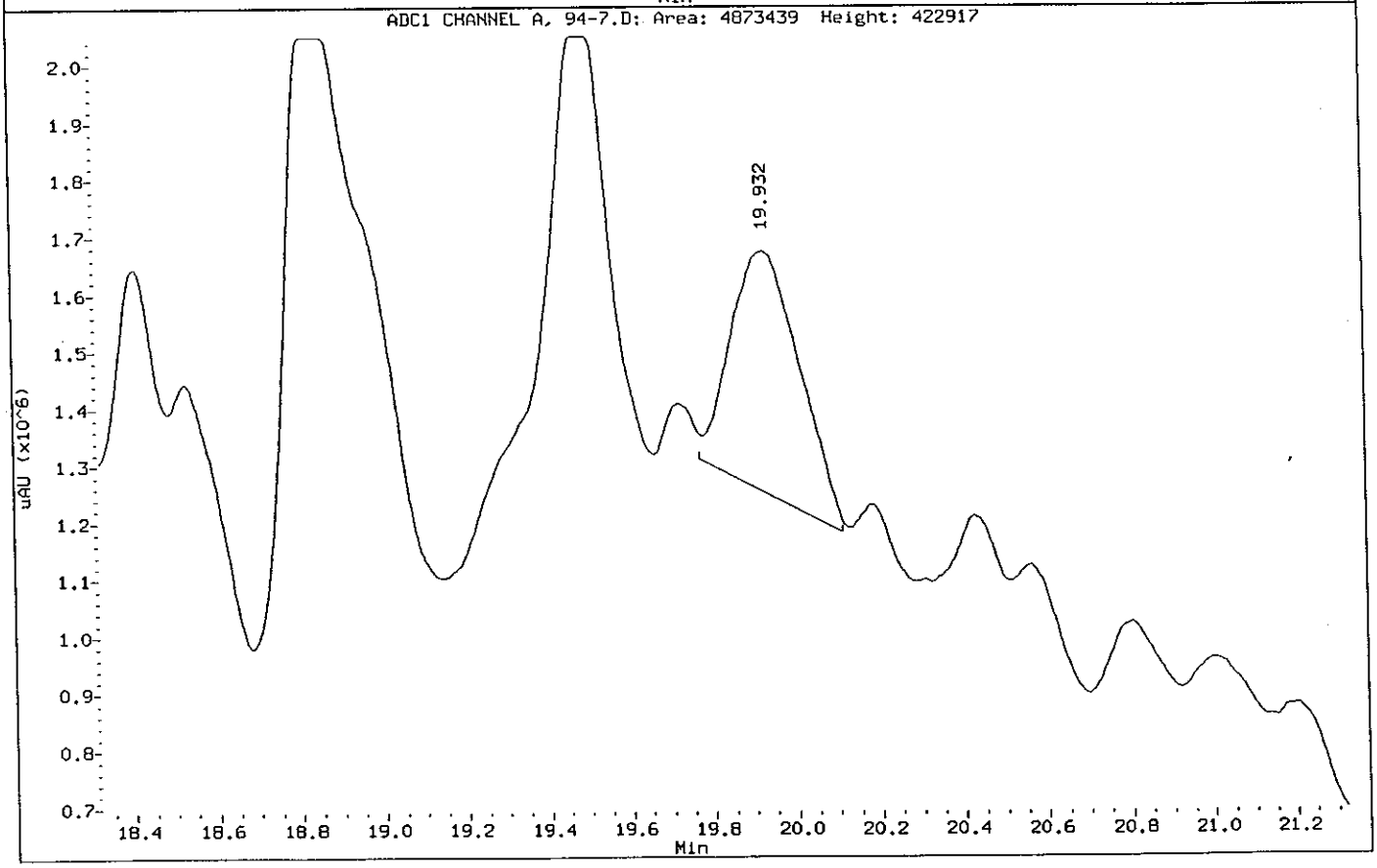




Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-7.D
Injection Date: 29-OCT-2001 10:53
Instrument: slc02.i
Client Sample ID: 062B101S101801

Compound: Chrysene
CAS Number: 218-01-9





PEL Laboratories

Data file : \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-10.D
Lab Smp Id: 211009410 Client Smp ID: 062B104S101801
Inj Date : 29-OCT-2001 12:54
Operator : rood Inst ID: slc02.i
Smp Info : 211009410
Misc Info :
Comment :
Method : \\SVHPLC\ee\chem\slc02.i\L21028R1.b\8310S.m
Meth Date : 02-Nov-2001 08:36 jdonnelly Quant Type: ISTD
Cal Date : 28-OCT-2001 20:26 Cal File: PT2UGML.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: navy50.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	32.600	Extracted weight
M	11.108	% Moisture
Vf	1.000	Final Volume

RT	EXP RT	REL RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO
* 1 Carbazole (ISTD)						CAS #: 86-74-8		
11.056	10.610	(1.000)	VWD1A	282398			80.00- 120.00	100.00(H)
11.142	10.610	(1.000)	ADC1A	2291095	10.0000		652.03- 978.05	811.30
10 Fluoranthene						CAS #: 206-44-0		
17.343	17.066	(1.569)	VWD1A	2760	0.14287	4.9	80.00- 120.00	100.00(aM)
17.445	17.066	(1.578)	ADC1A	79			6.36- 9.54	2.86
11 Pyrene						CAS #: 129-00-0		
17.746	17.606	(1.605)	VWD1A	5951	0.40137	13.8	80.00- 120.00	100.00(aM)
17.845	17.606	(1.614)	ADC1A	81264	0.41030	14.2	930.64-1395.96	1365.55
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.693	18.593	(1.691)	VWD1A	225835	13.1481	454	80.00- 120.00	100.00(M)

RT	EXP RT	REL RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	CONCENTRATIONS FINAL (ug/kg)	TARGET RANGE	RATIO
$ 12 p-Terphenyl-d14 (SURR) (continued)								
18.789	18.593	(1.699)	ADC1A	6689927	14.2299	491	2246.35-3369.53	2962.31
15 Benzo(b)Fluoranthene						CAS #: 205-99-2		
21.313	21.253	(1.928)	VWD1A	16020	0.32066	11.1	80.00- 120.00	100.00(aM)
21.410	21.253	(1.936)	ADC1A	22895	1.75028	60.4	20.85- 31.28	142.92
19 Benzo(ghi)Perylene						CAS #: 191-24-2		
24.230	24.226	(2.191)	VWD1A	2014	0.11959	4.1	80.00- 120.00	100.00(aM)
24.305	24.226	(2.198)	ADC1A	19709	0.57782	19.9	155.32- 232.98	978.60

QC Flag Legend

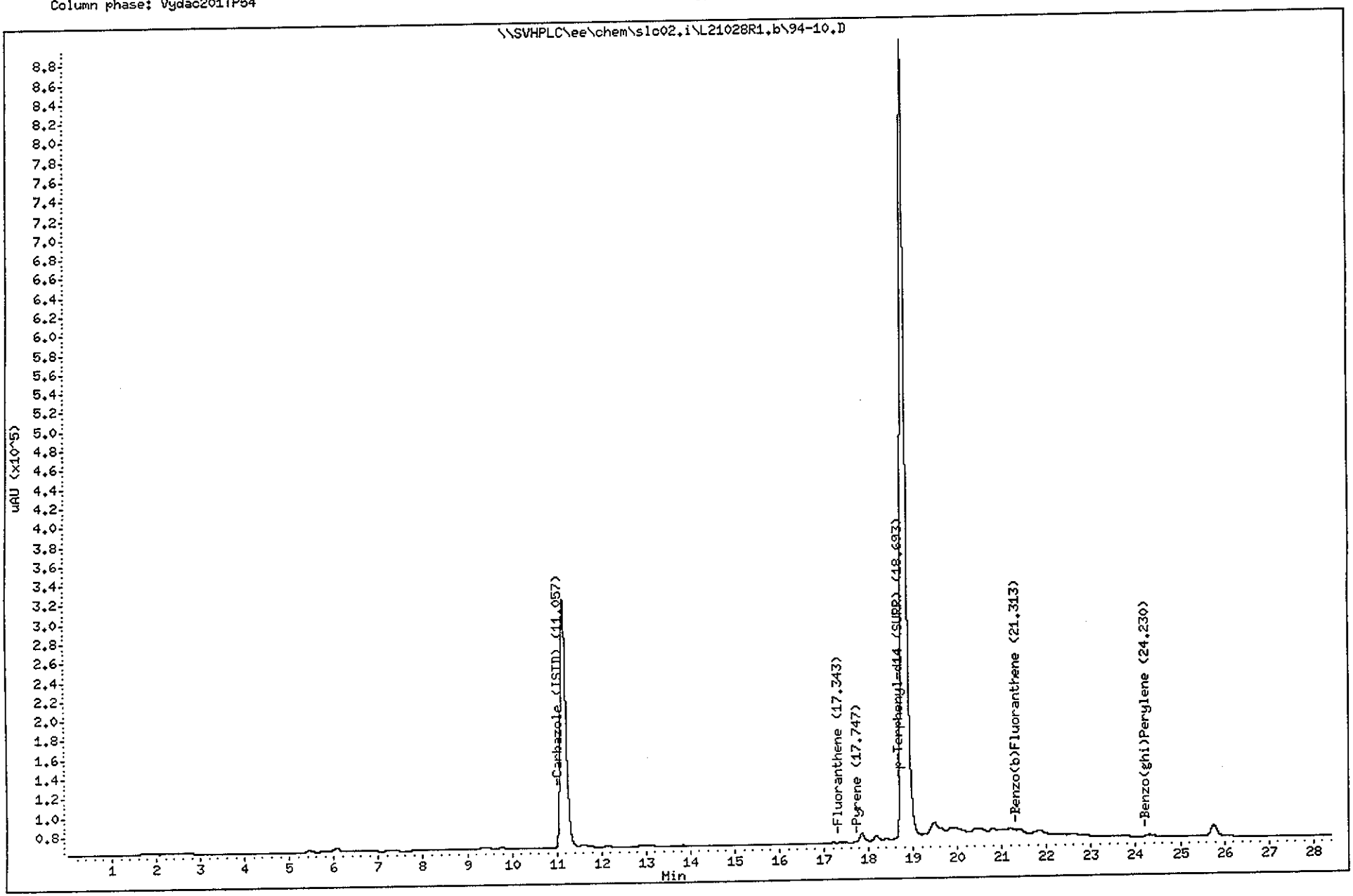
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-10.D
Date : 29-OCT-2001 12:54
Client ID: 062B104S101801
Sample Info: 211009410

Instrument: slc02.i

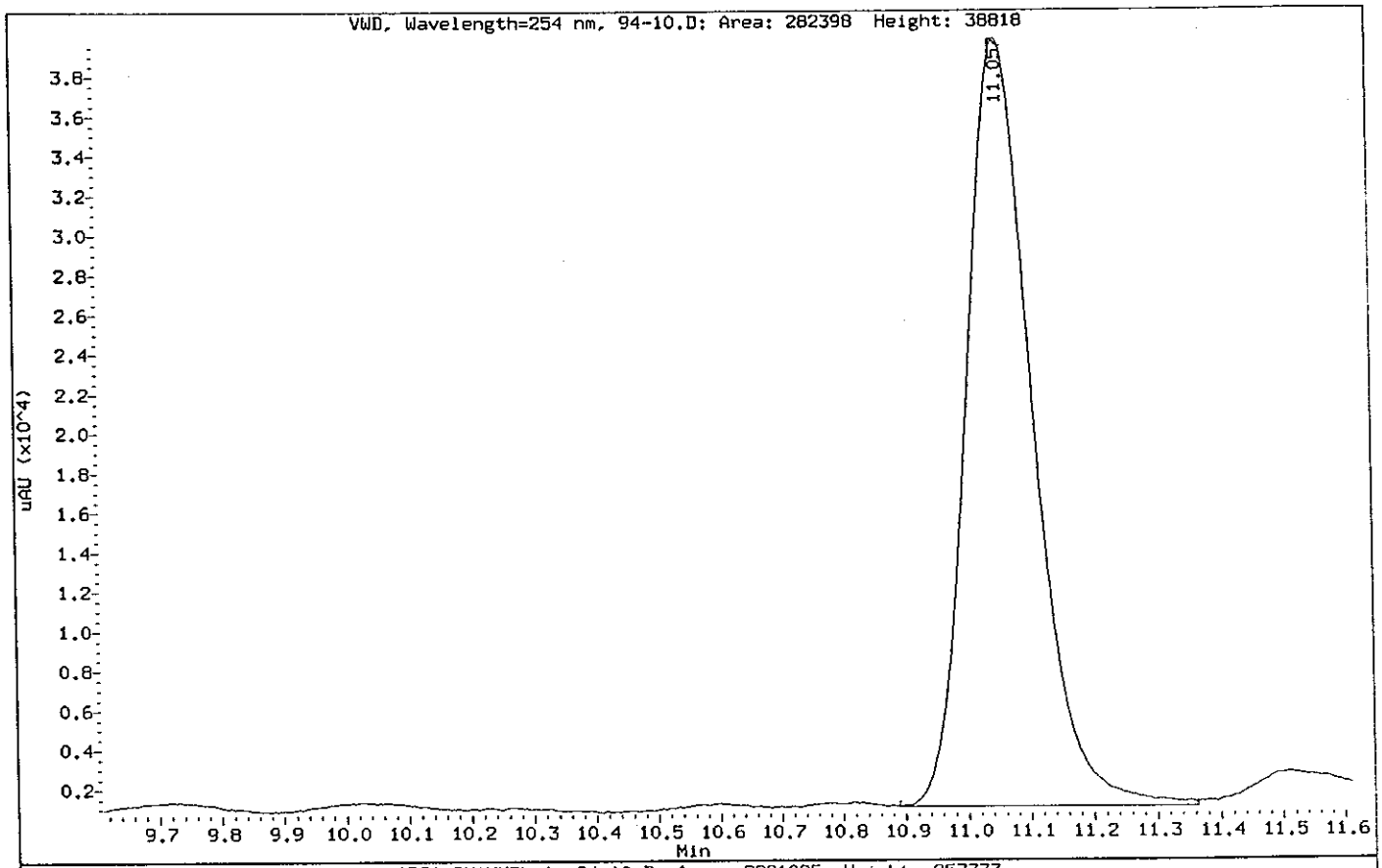
Operator: rood
Column diameter: 4.60

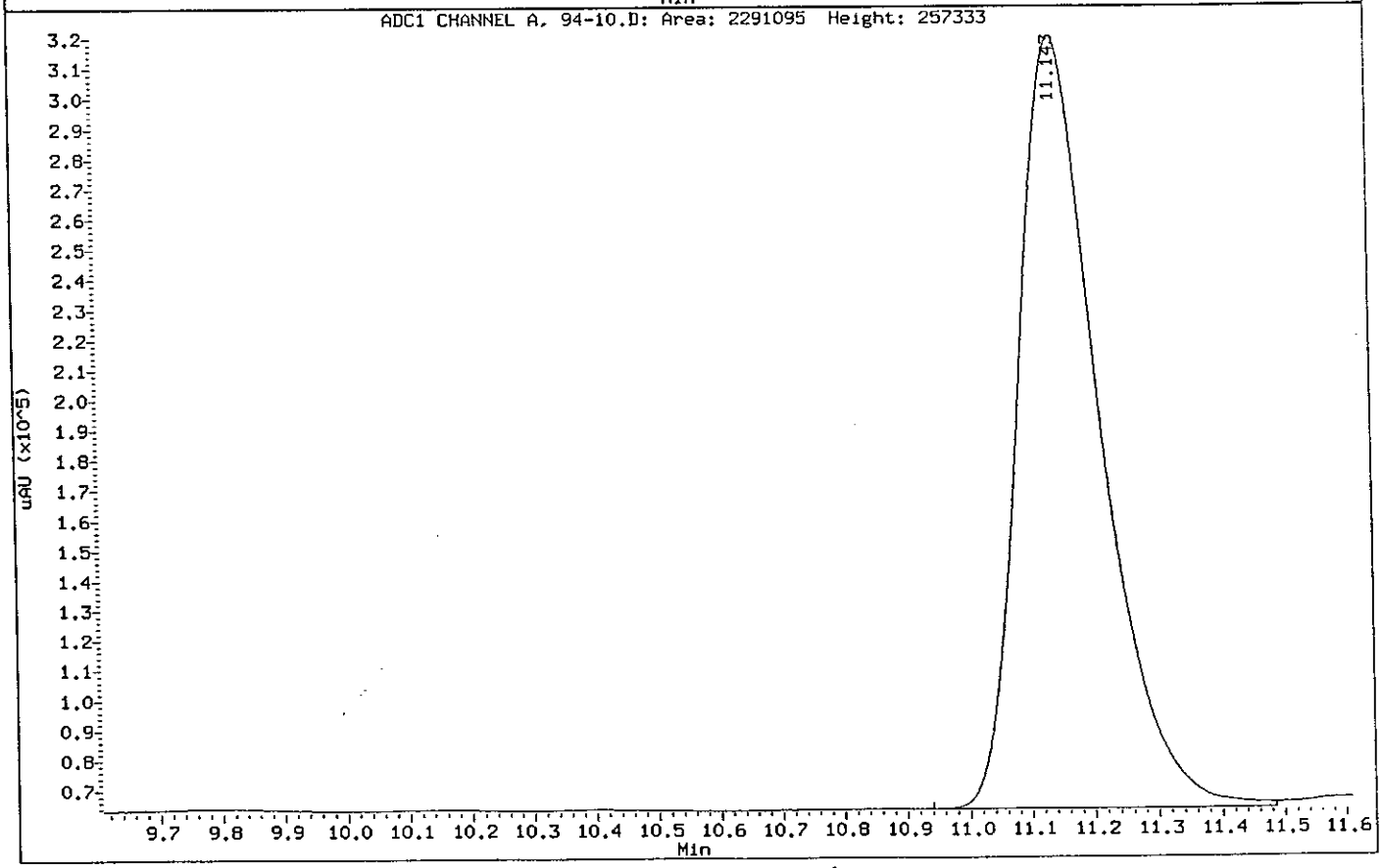
Column phase: Vydac201TP54



Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-10.D
Injection Date: 29-OCT-2001 12:54
Instrument: slc02.i
Client Sample ID: 062B104S101801

Compound: Carbazole (ISTD)
CAS Number: 86-74-8

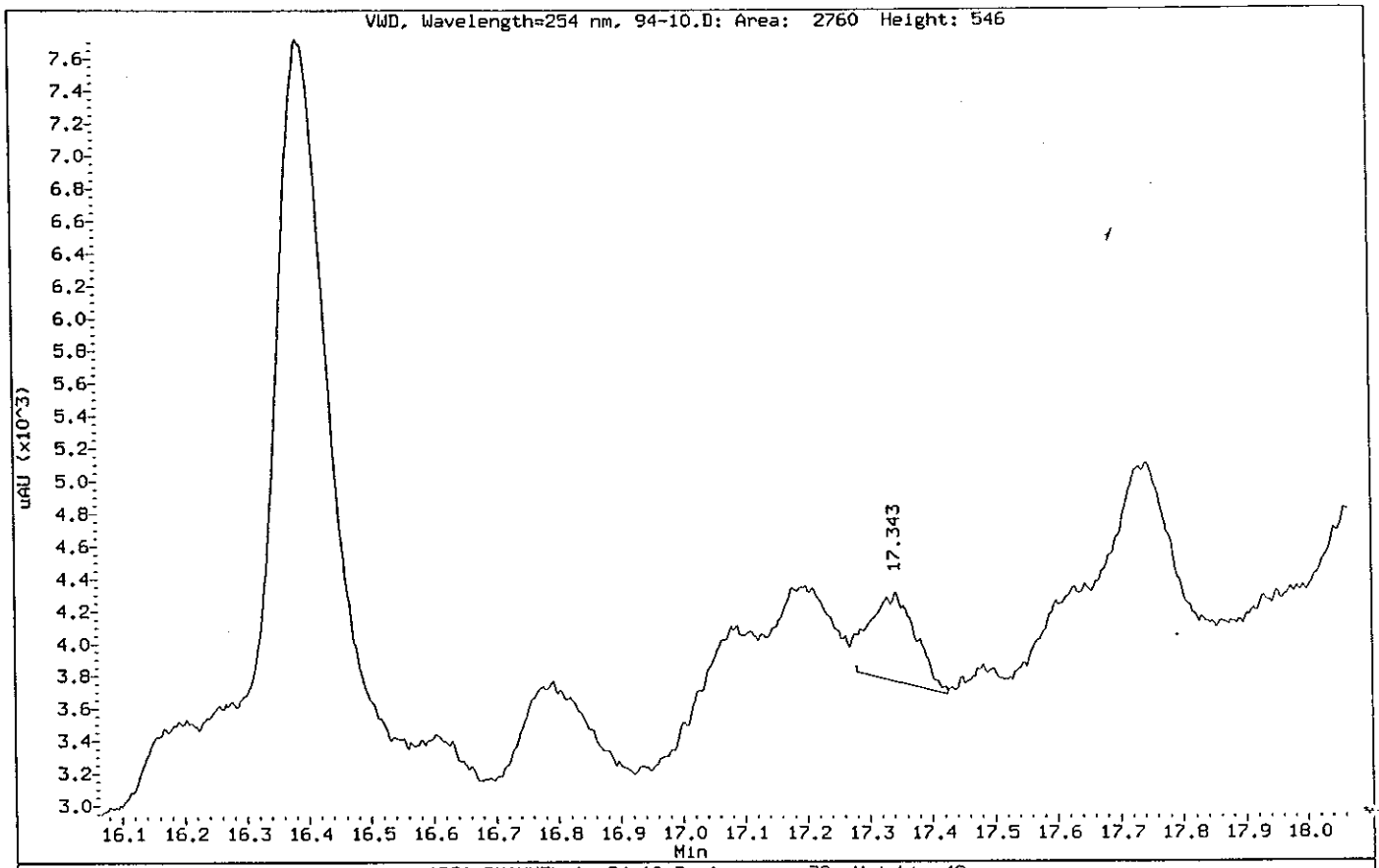


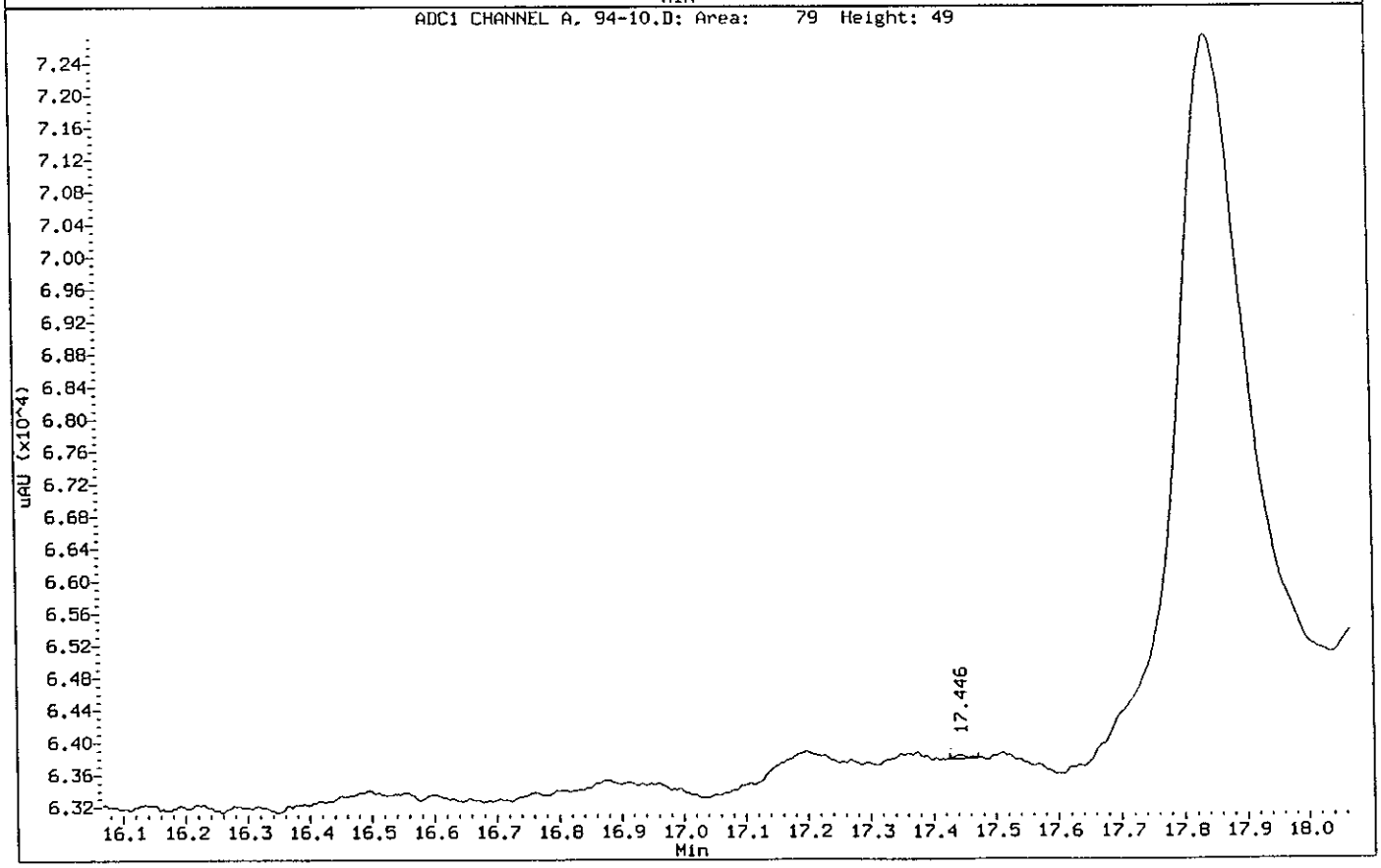


ISTD

Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-10.D
Injection Date: 29-OCT-2001 12:54
Instrument: slc02.i
Client Sample ID: 062B1045101801

Compound: Fluoranthene
CAS Number: 206-44-0

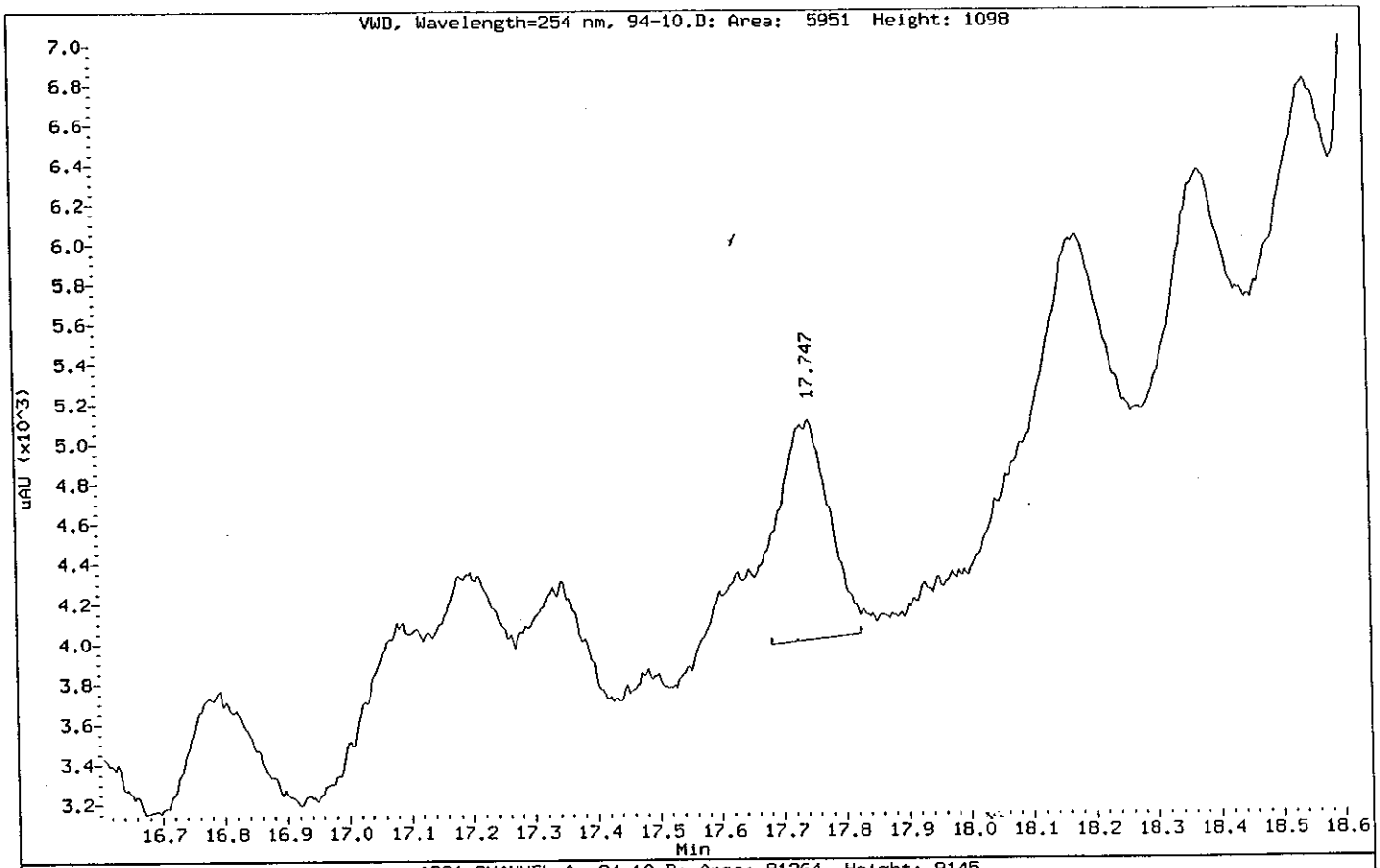


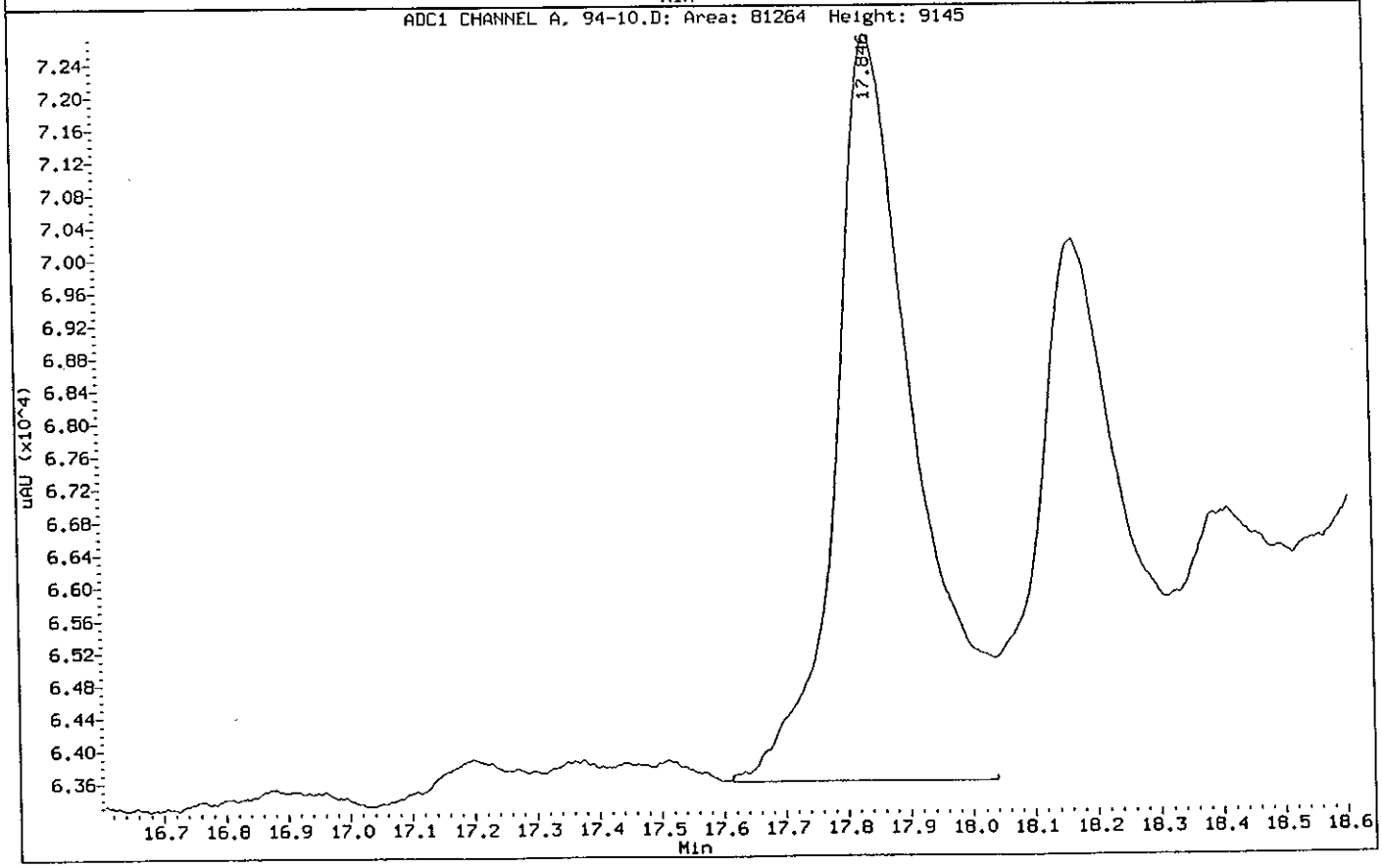


TMD

Data File: \\SVHPLC\ee\chem\slc02.1\L21028R1.b\94-10.D
Injection Date: 29-OCT-2001 12:54
Instrument: slc02.1
Client Sample ID: 062B104S101B01

Compound: Pyrene
CAS Number: 129-00-0

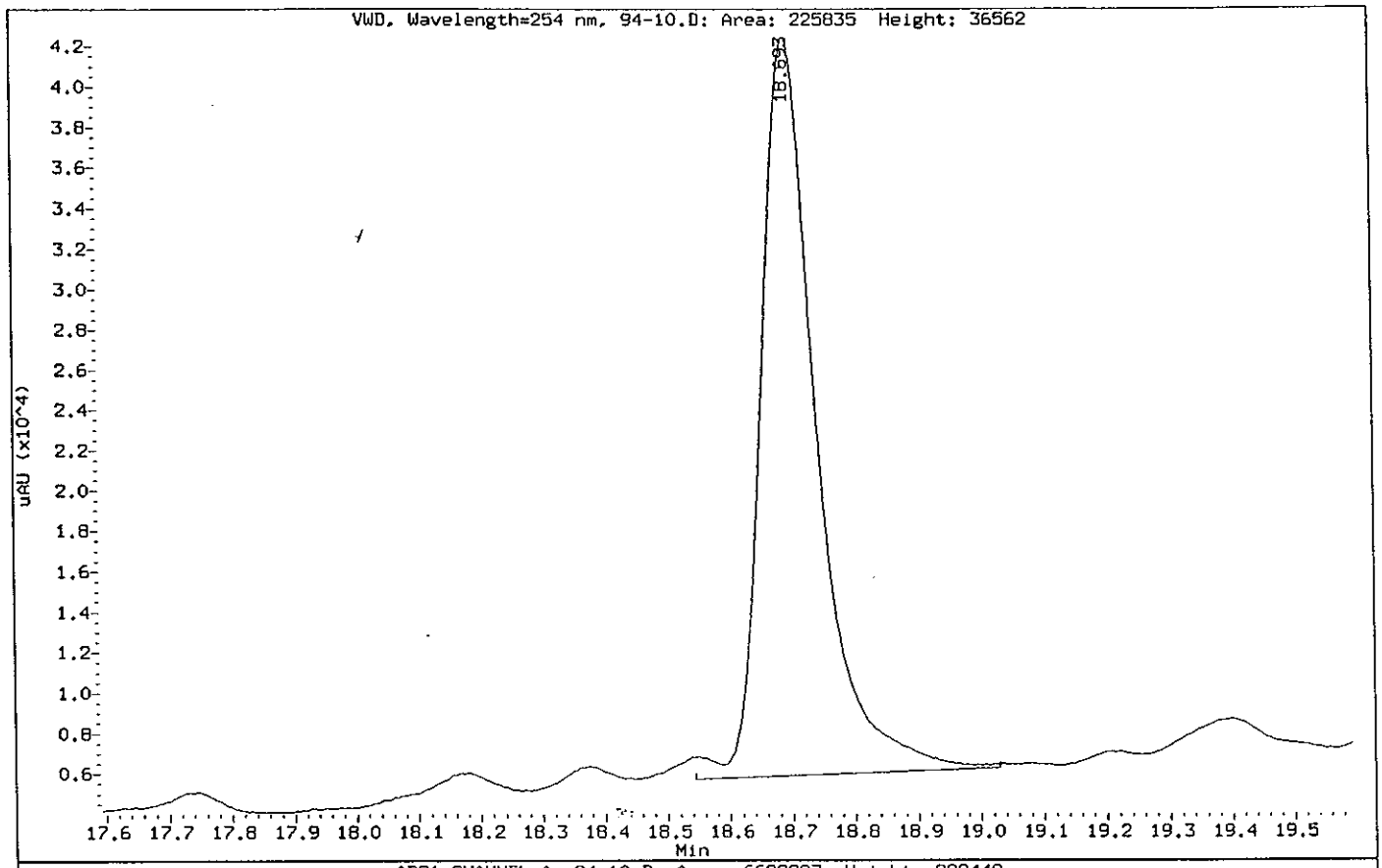


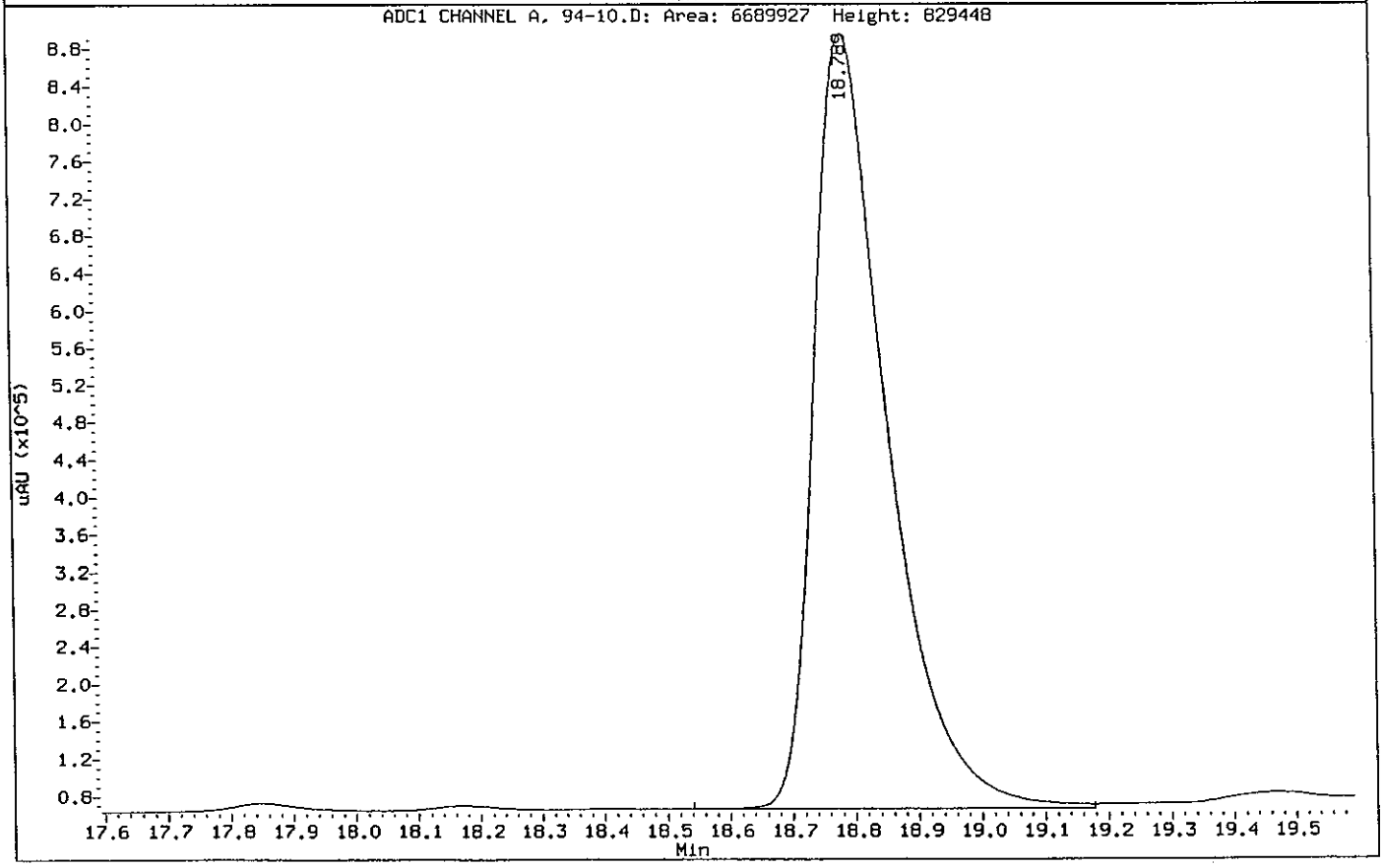


END

Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-10.D
Injection Date: 29-OCT-2001 12:54
Instrument: slc02.i
Client Sample ID: 062B104S101801

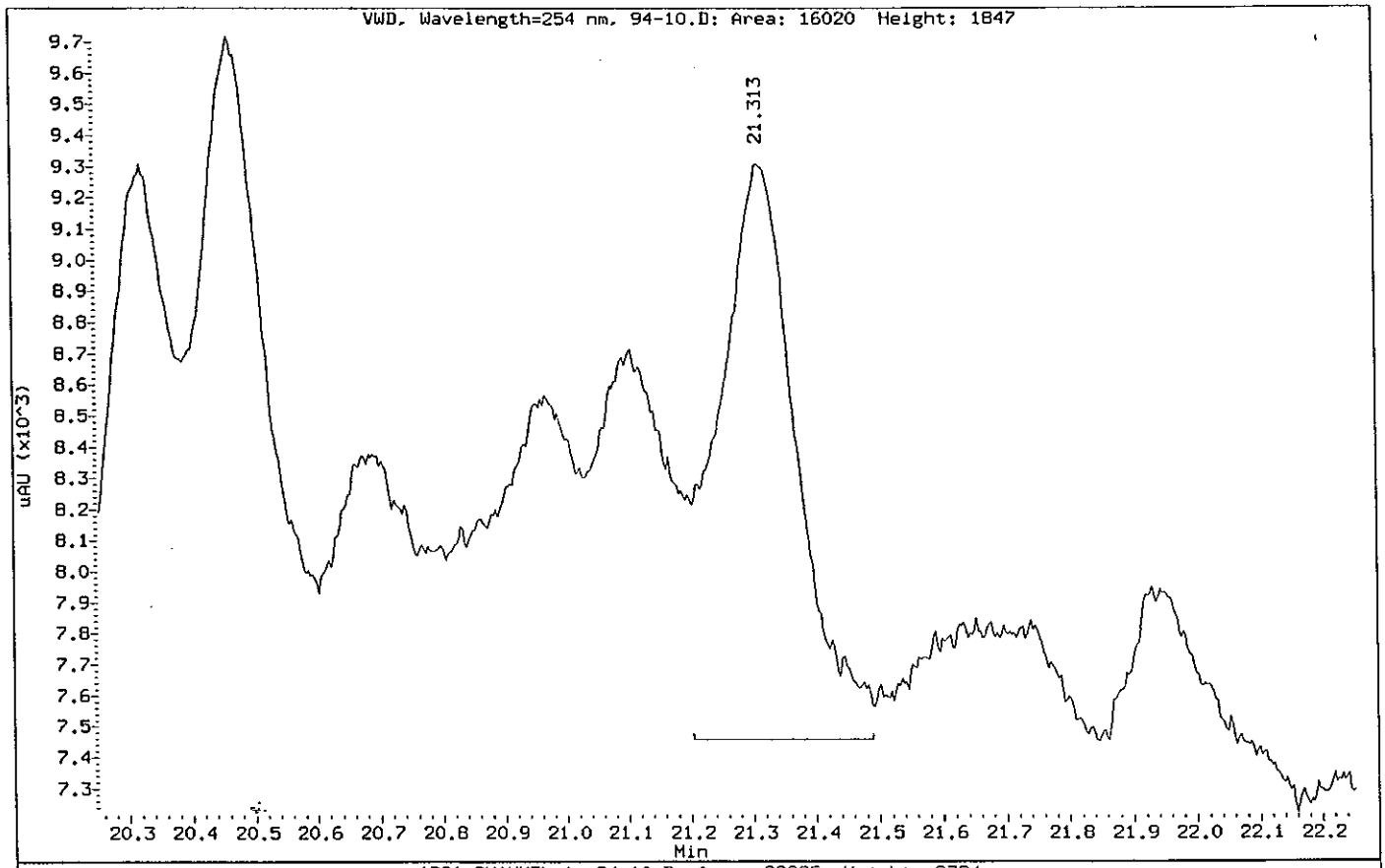
Compound: p-Terphenyl-d14 (SURR)
CAS Number: 1718-51-0

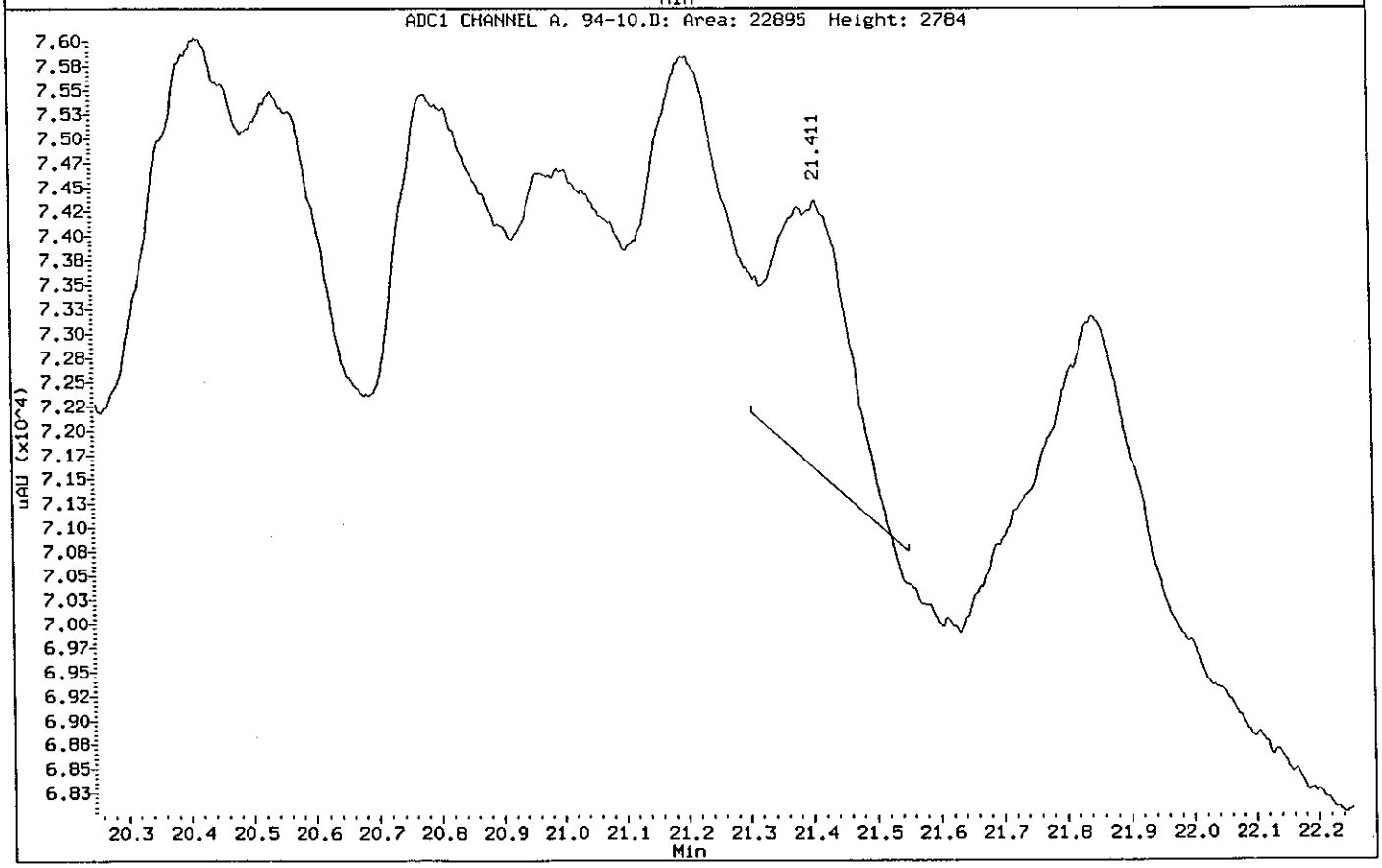




Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-10.D
Injection Date: 29-OCT-2001 12:54
Instrument: slc02.i
Client Sample ID: 062B104S101801

Compound: Benzo(b)Fluoranthene
CAS Number: 205-99-2

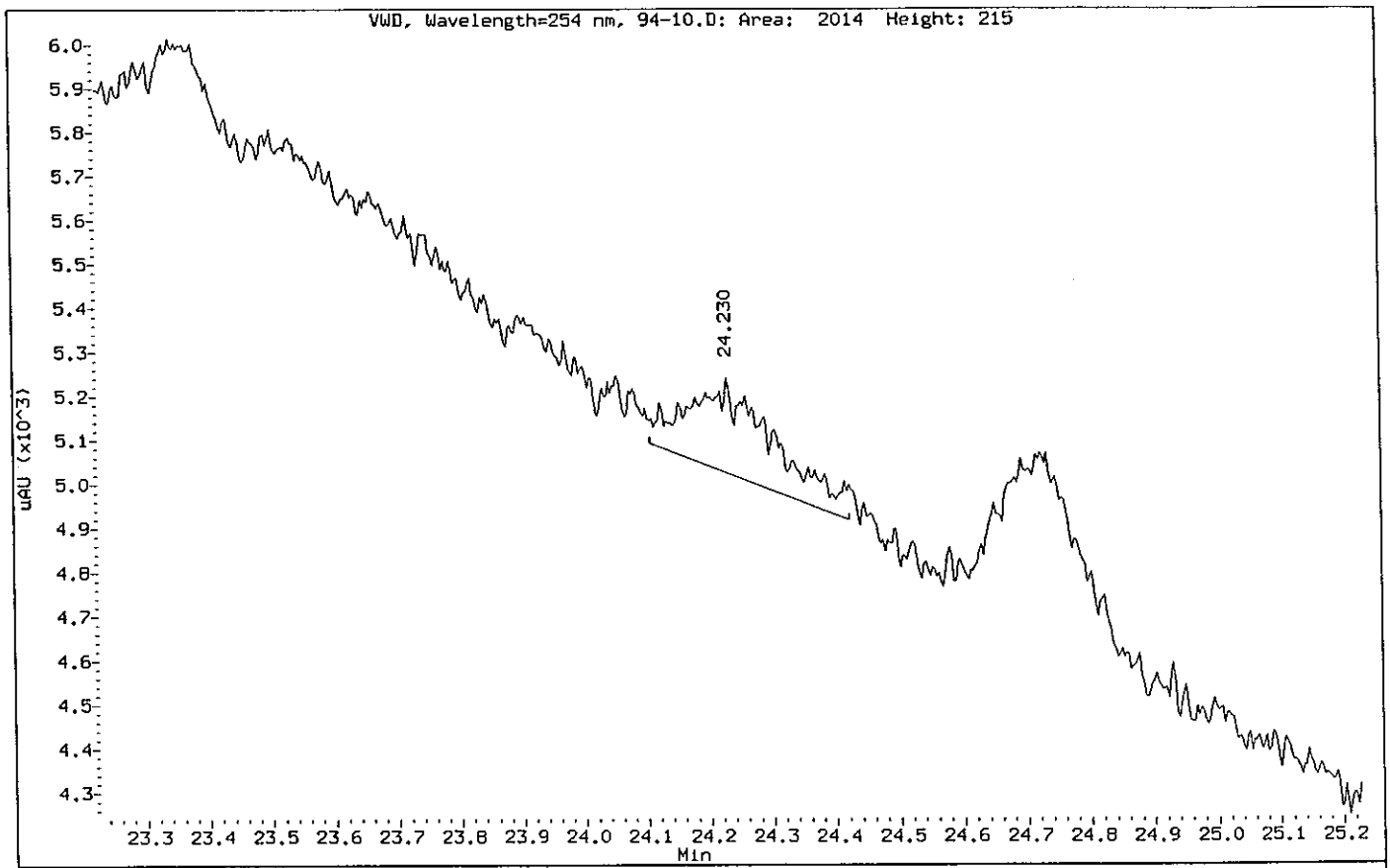


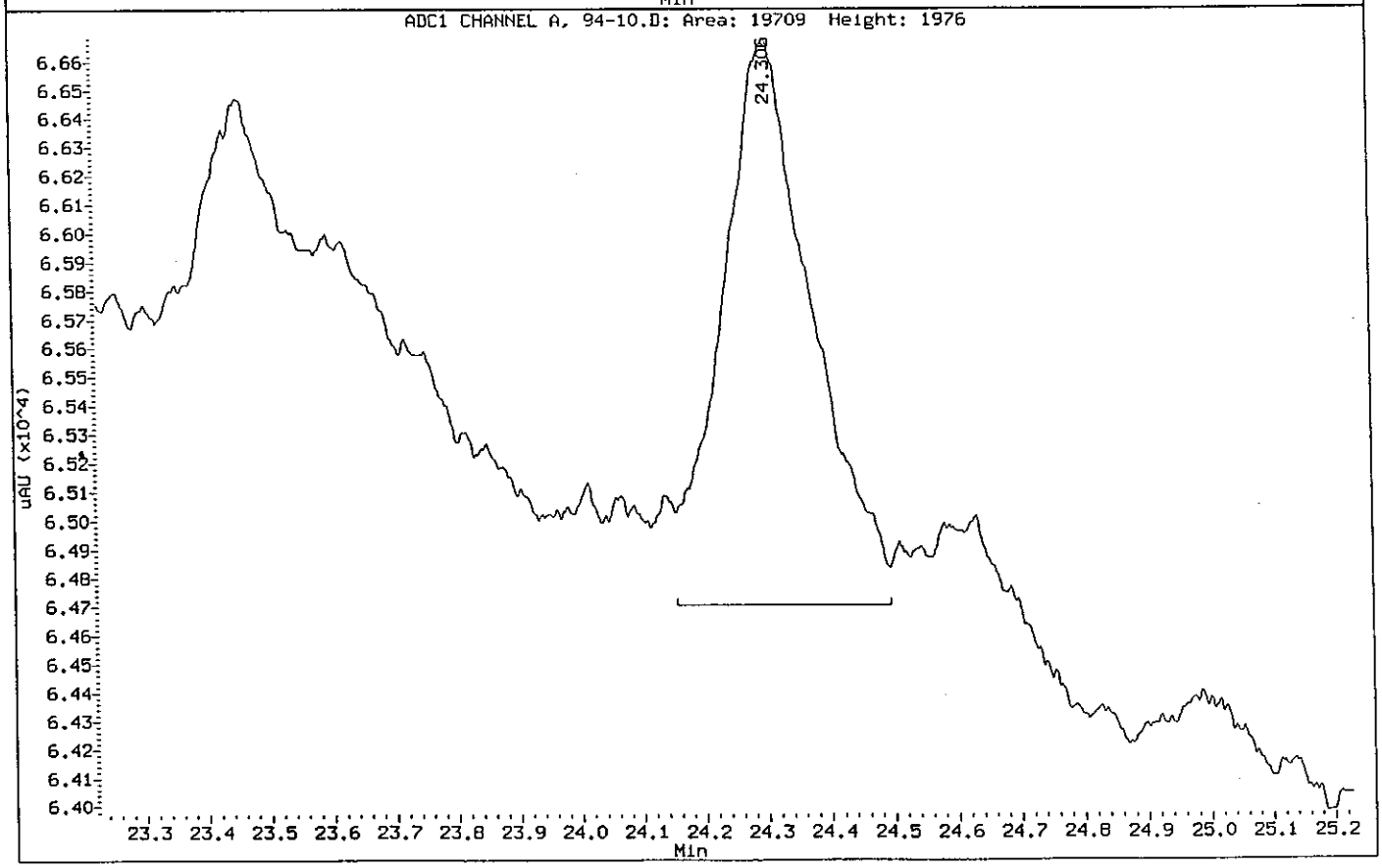


JMD

Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-10.D
Injection Date: 29-OCT-2001 12:54
Instrument: slc02.i
Client Sample ID: 062B104S101801

Compound: Benzo(ghi)Perylene
CAS Number: 191-24-2





TWD

PEL Laboratories

Data file : \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-16D50.D
Lab Smp Id: 211009416DL1 Client Smp ID: 062B167S101801DL1
Inj Date : 29-OCT-2001 13:29
Operator : rood Inst ID: slc02.i
Smp Info : 211009416
Misc Info :
Comment :
Method : \\SVHPLC\ee\chem\slc02.i\L21028R1.b\8310S.m
Meth Date : 02-Nov-2001 08:36 jdonnelly Quant Type: ISTD
Cal Date : 28-OCT-2001 20:26 Cal File: PT2UGML.D
Als bottle: 10
Dil Factor: 50.00000
Integrator: Falcon Compound Sublist: navy50.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	50.000	Dilution Factor
Ws	33.000	Extracted weight
M	12.776	% Moisture
Vf	1.000	Final Volume

RT	EXP RT	REL RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	CONCENTRATIONS FINAL (ug/kg)	TARGET RANGE	RATIO
* 1 Carbazole (ISTD)							CAS #: 86-74-8	
11.056	10.610	(1.000)	VWD1A	240957			80.00- 120.00	100.00(M)
11.149	10.610	(1.008)	ADC1A	1934816	10.0000		652.03- 978.05	802.97
2 Naphthalene							CAS #: 91-20-3	
12.100	11.770	(1.094)	VWD1A	33917	6.17565	10700	80.00- 120.00	100.00(aH)
12.199	11.770	(1.103)	ADC1A	36963	6.21053	10800	82.40- 123.60	108.98
4 1-Methyl naphthalene							CAS #: 90-12-0	
13.876	13.633	(1.255)	VWD1A	42589	12.8585	22300	80.00- 120.00	100.00(M)
13.972	13.633	(1.264)	ADC1A	175210	14.2943	24800	296.60- 444.90	411.40
5 2-Methyl naphthalene							CAS #: 91-57-6	
14.196	13.973	(1.284)	VWD1A	71024	15.1455	26300	80.00- 120.00	100.00(M)

RT	EXP RT	REL RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO
5 2-Methyl naphthalene (continued)								
14.294	13.973	(1.293)	ADC1A	180237	17.3860	30200	191.55- 287.32	253.77
6 Acenaphthene						CAS #: 83-32-9		
14.550	14.310	(1.316)	VWD1A	213	0.10022	174	80.00- 120.00	170.00(aMH)
14.617	14.310	(1.322)	ADC1A	1993	0.08181	142	964.12-1446.17	935.68
7 Fluorene						CAS #: 86-73-7		
14.883	14.680	(1.346)	VWD1A	21076	0.85906	1490	80.00- 120.00	100.00(aM)
14.969	14.680	(1.354)	ADC1A	3052	1.02702	1780	9.06- 13.59	14.48
8 Phenanthrene						CAS #: 85-01-8		
15.673	15.500	(1.418)	VWD1A	84834	1.24311	2160	80.00- 120.00	100.00(aM)
15.760	15.500	(1.425)	ADC1A	318825	4.92296	8550	78.58- 117.87	375.82
10 Fluoranthene						CAS #: 206-44-0		
17.230	17.066	(1.558)	VWD1A	18684	1.14525	1990	80.00- 120.00	100.00(aM)
17.300	17.066	(1.565)	ADC1A	23886			6.36- 9.54	127.84
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.703	18.593	(1.692)	VWD1A	13263	0.91436	1590	80.00- 120.00	100.00(aRM)
18.775	18.593	(1.698)	ADC1A	185277	0.46666	811	2246.35-3369.53	1396.95
14 Chrysene						CAS #: 218-01-9		
19.813	19.820	(1.792)	VWD1A	11877	0.21720	377	80.00- 120.00	100.00(aMH)
19.907	19.820	(1.801)	ADC1A	15104	0.11598	201	190.14- 285.21	127.17

QC Flag Legend

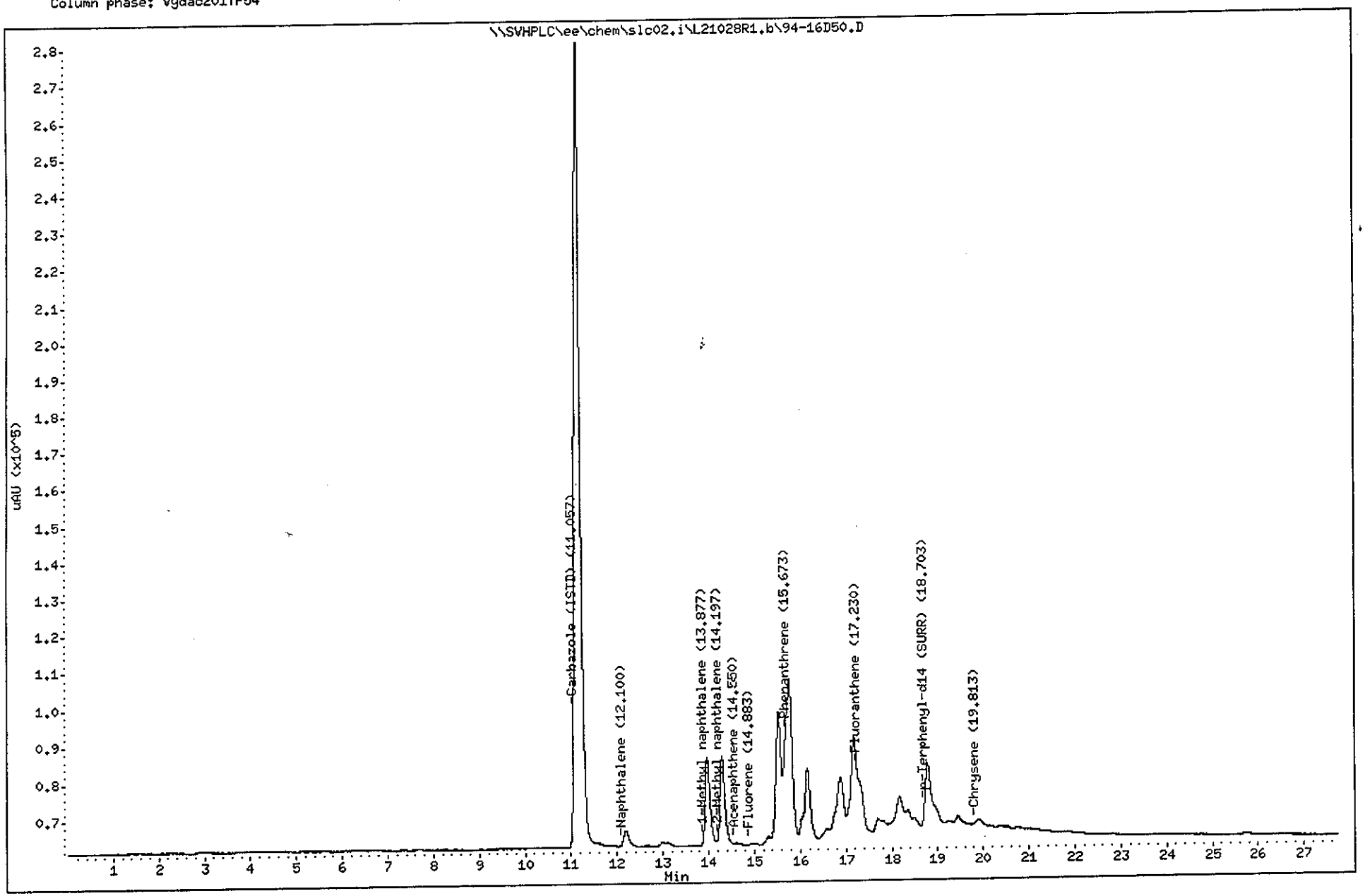
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-16D50.D
Date : 29-OCT-2001 13:29
Client ID: 062B167S101801DL1
Sample Info: 211009416

Instrument: slc02.i

Operator: rood
Column diameter: 4.60

Column phase: Vydac201TP54



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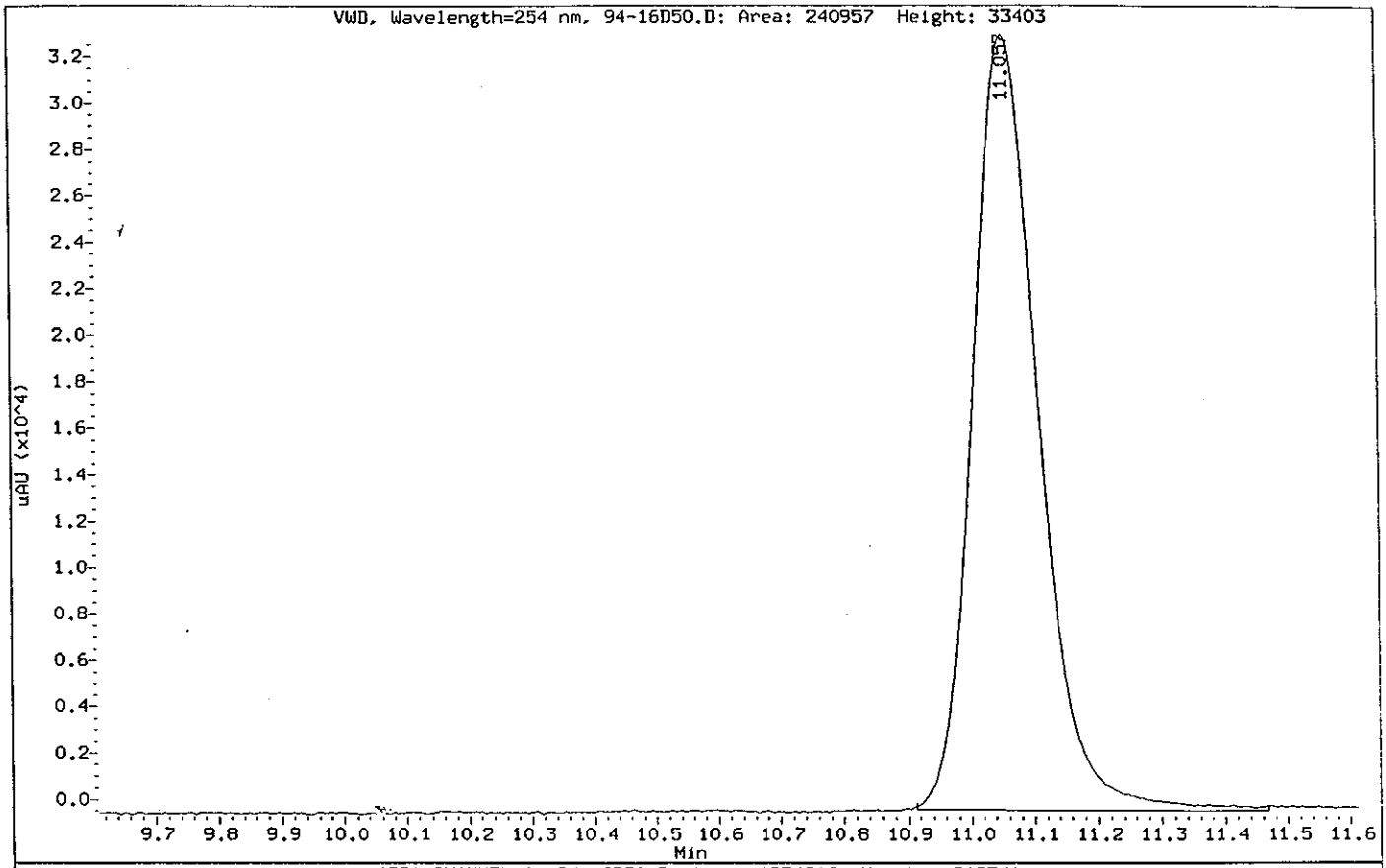
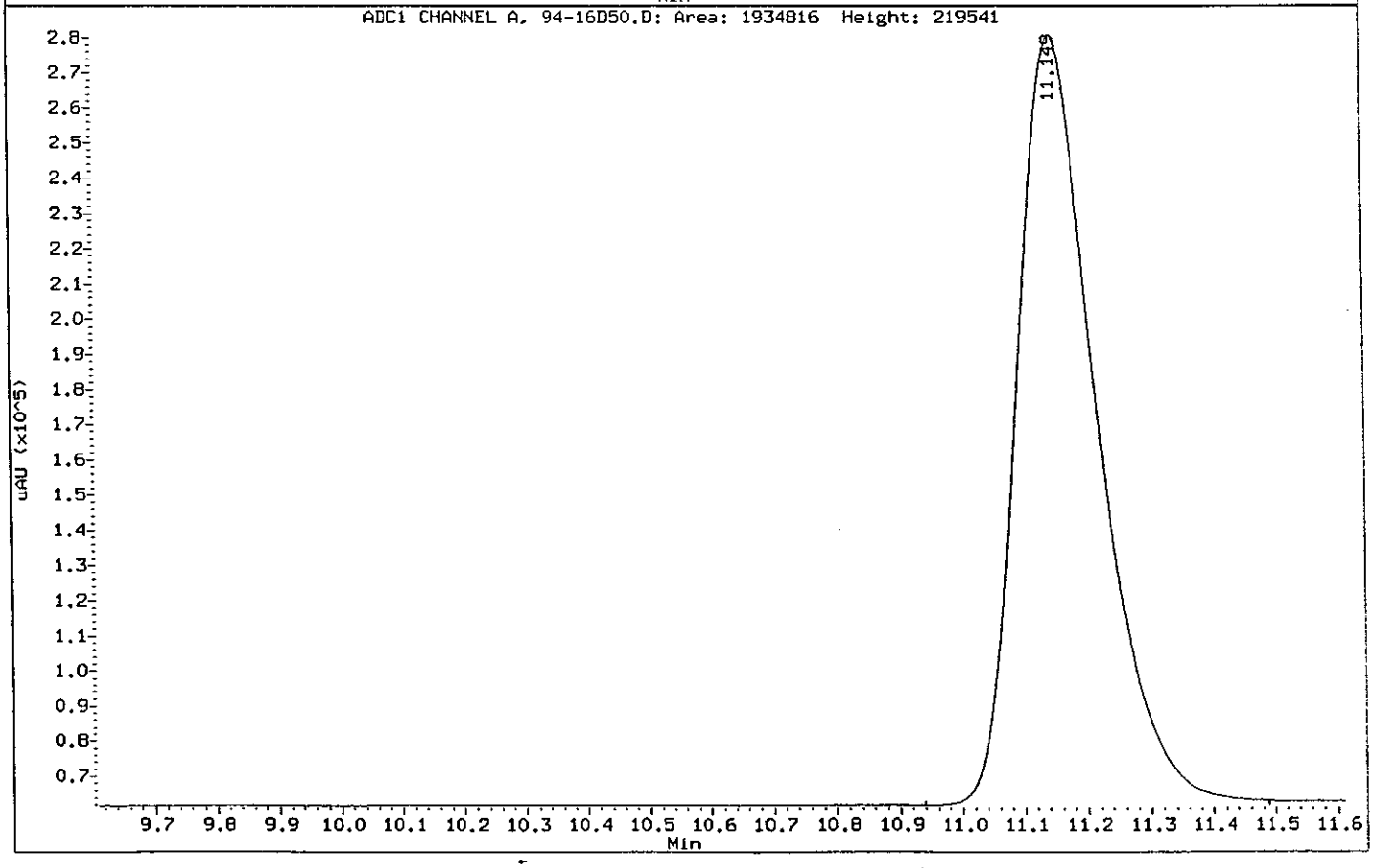
Injection Date: 29-OCT-2001 13:29
Instrument: slc02.i
Client Sample ID: 062B167S101801

Compound: Carbazole (ISTD)
CAS Number: 86-74-8





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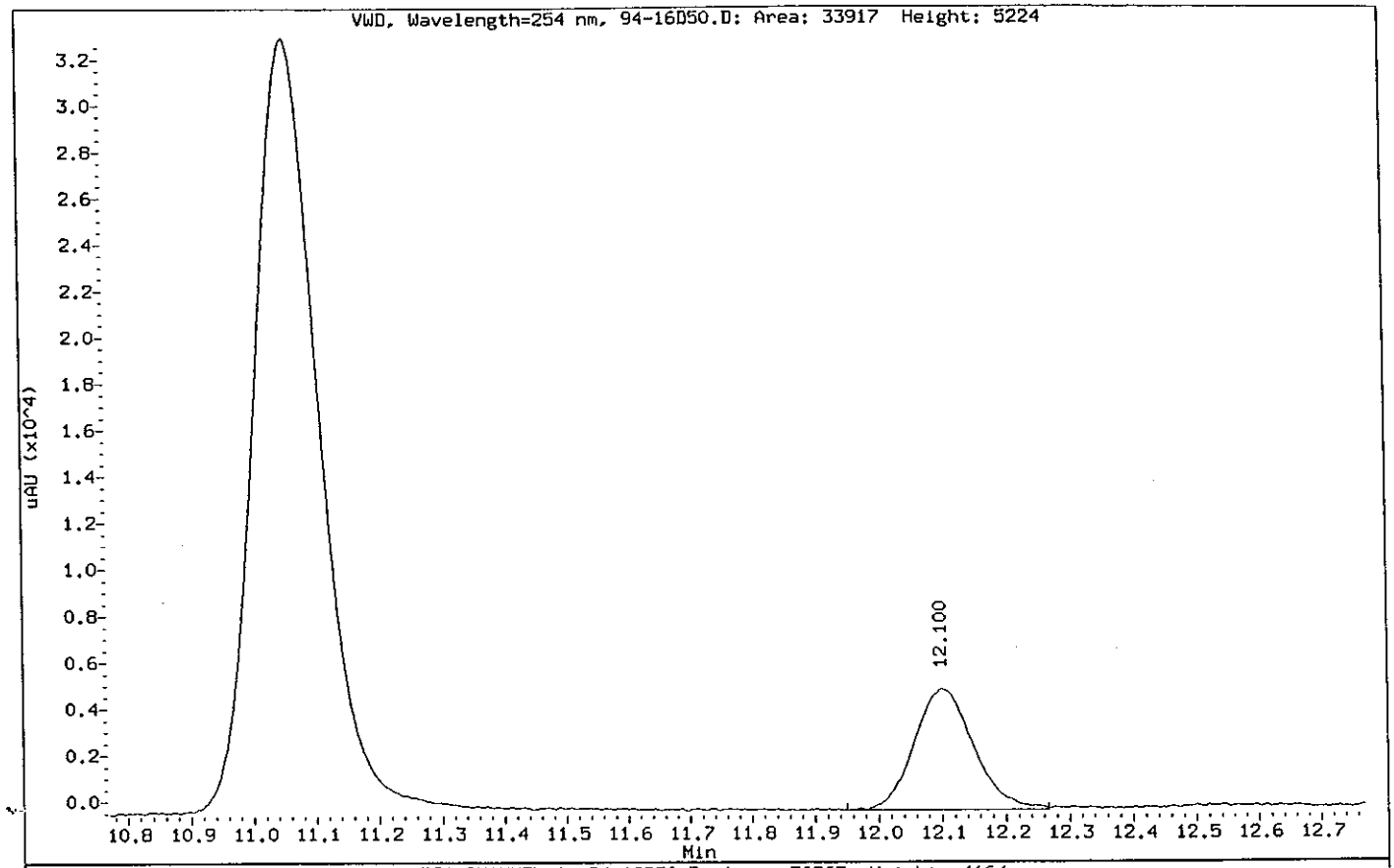
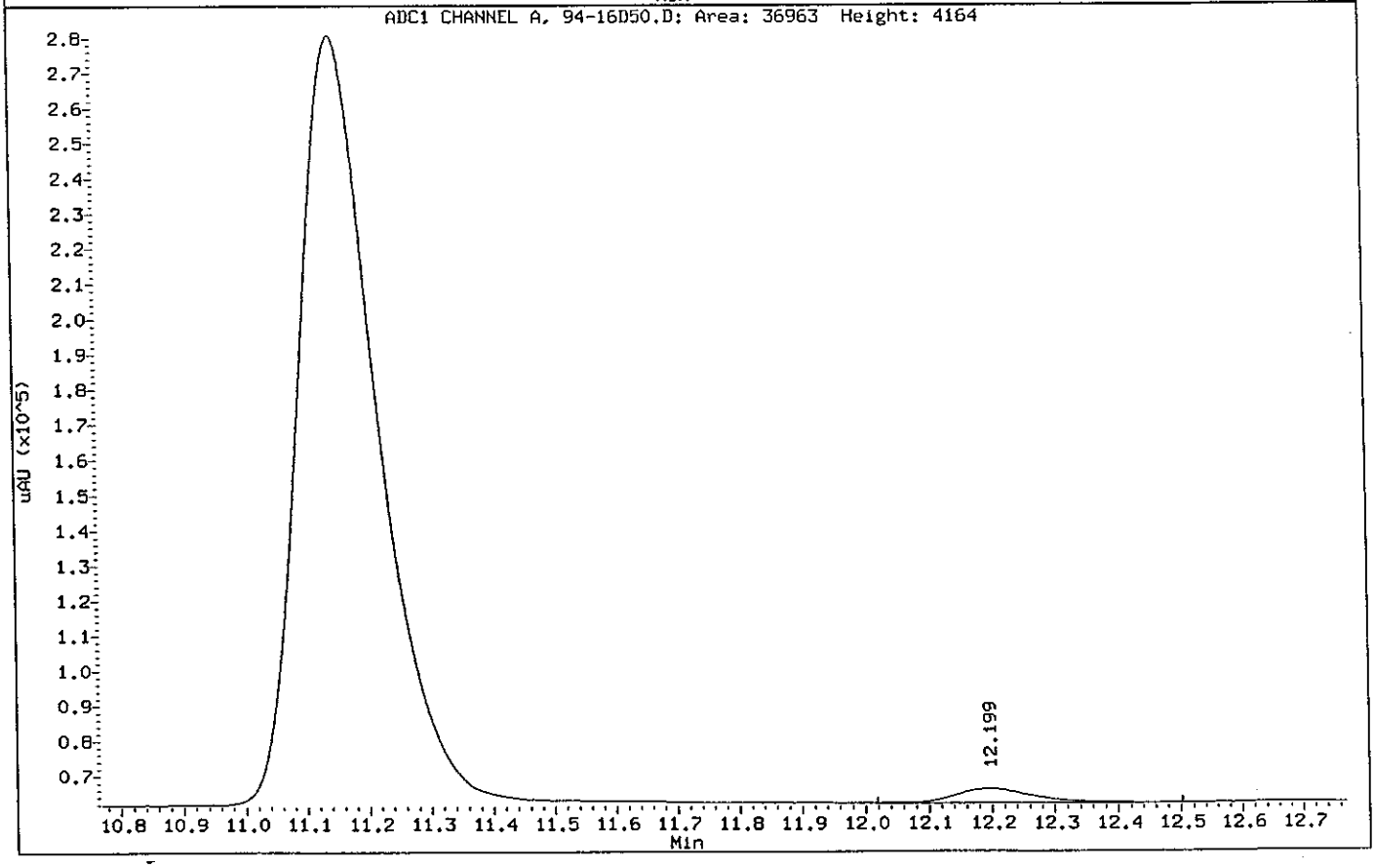
Injection Date: 29-OCT-2001 13:29
Instrument: slc02.i
Client Sample ID: 062B167S101801

Compound: Naphthalene
CAS Number: 91-20-3





TMD.

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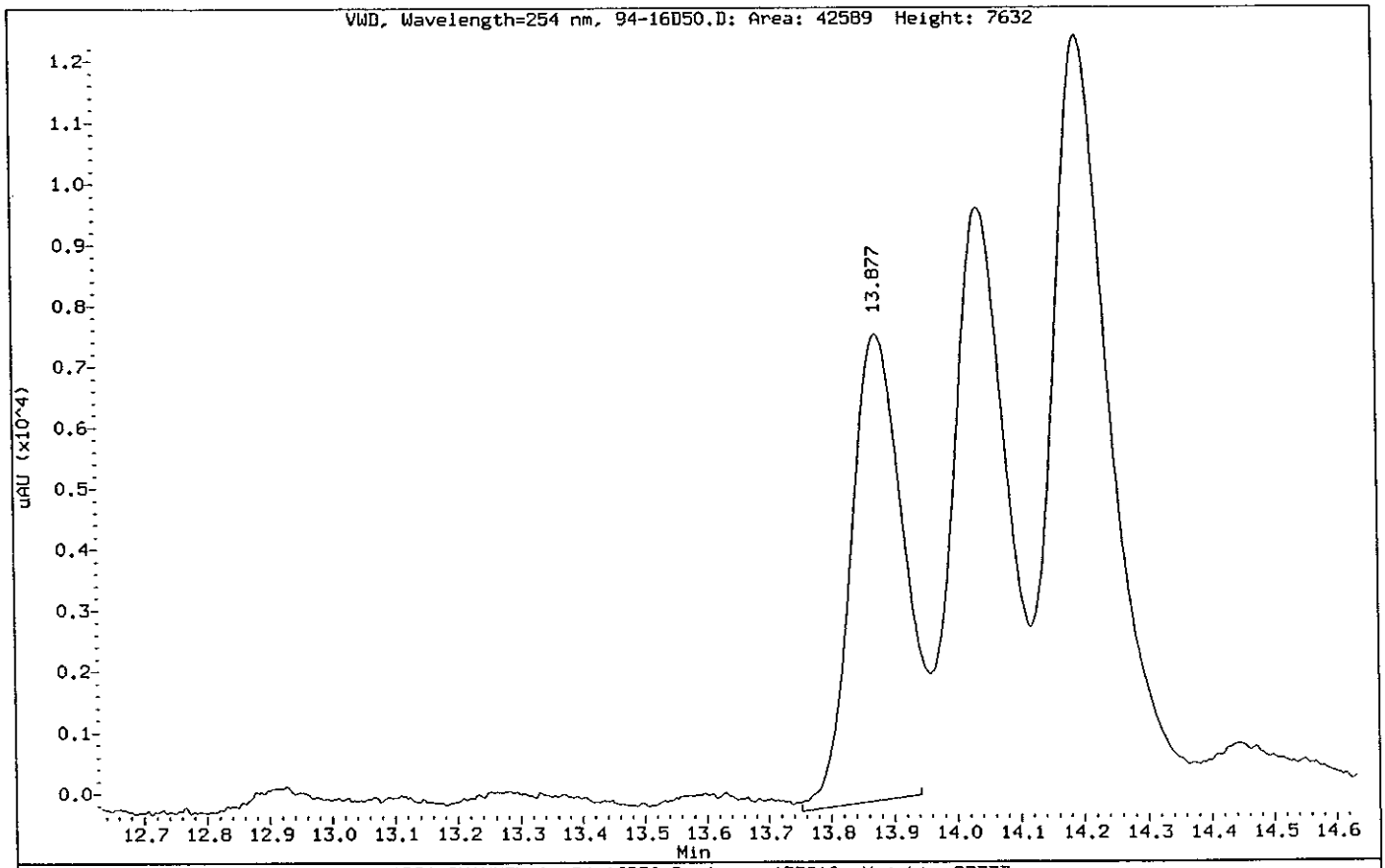
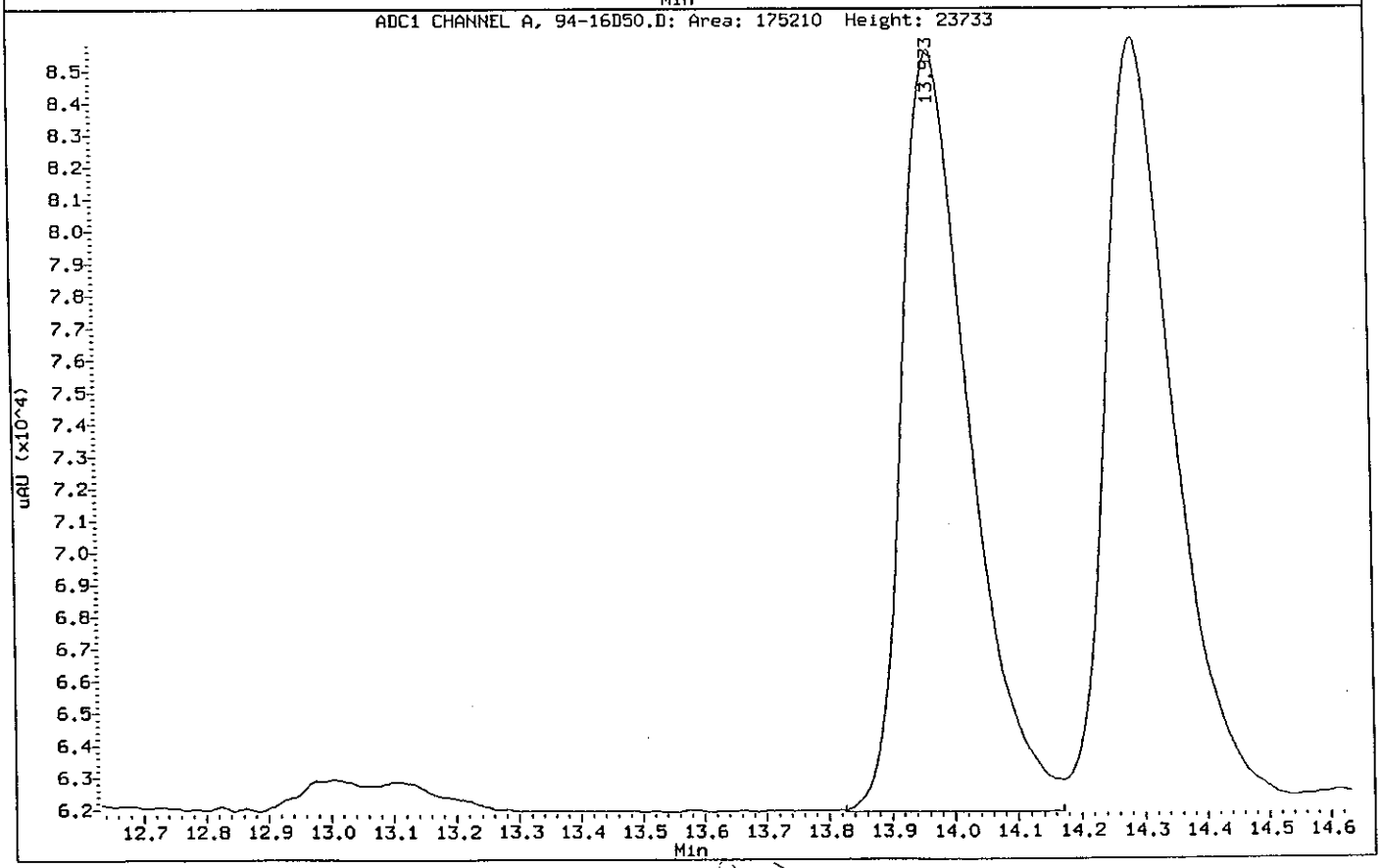
Injection Date: 29-OCT-2001 13:29
Instrument: slc02.i
Client Sample ID: 062B1675101801

Compound: 1-Methyl naphthalene
CAS Number: 90-12-0





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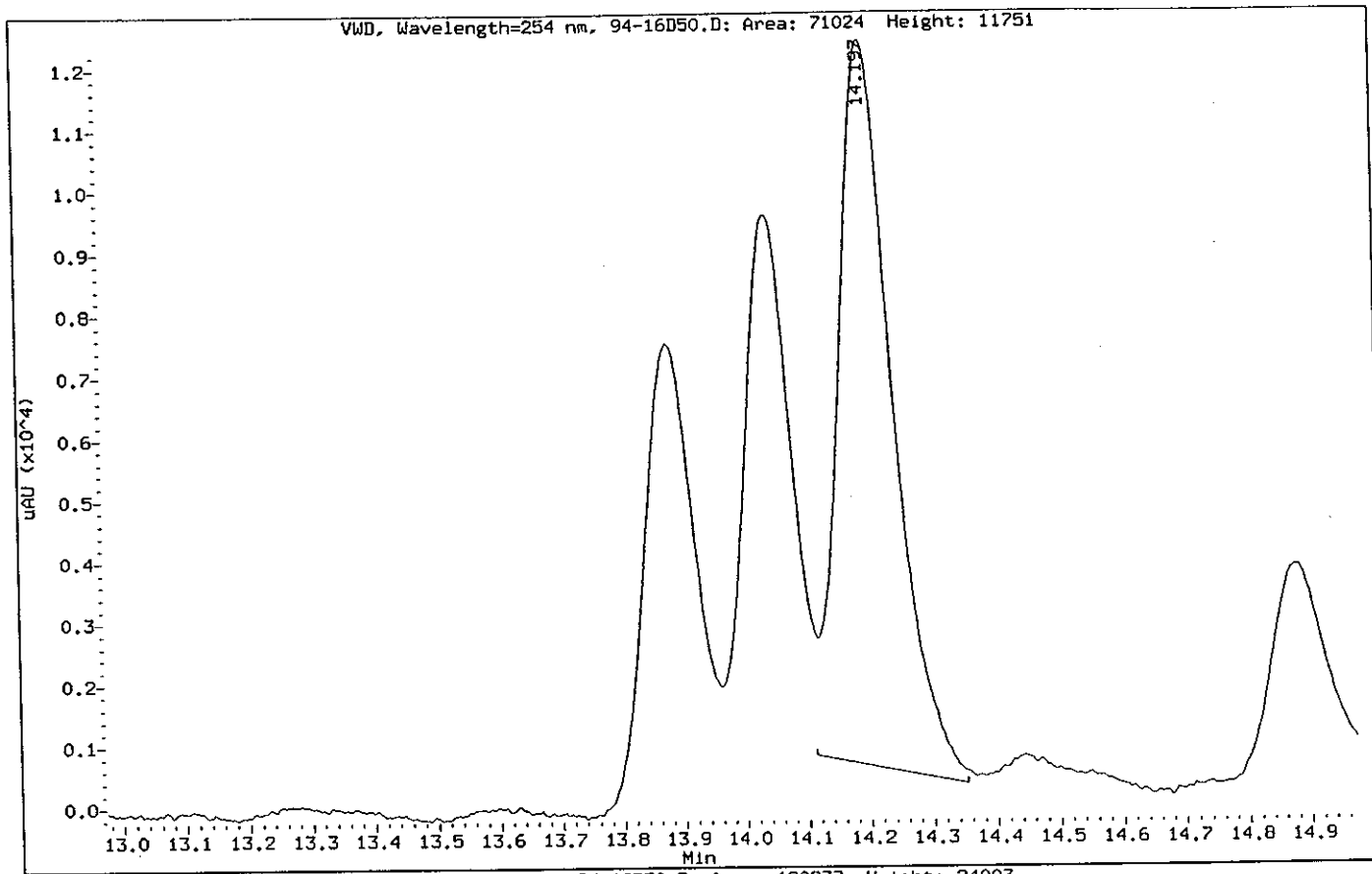
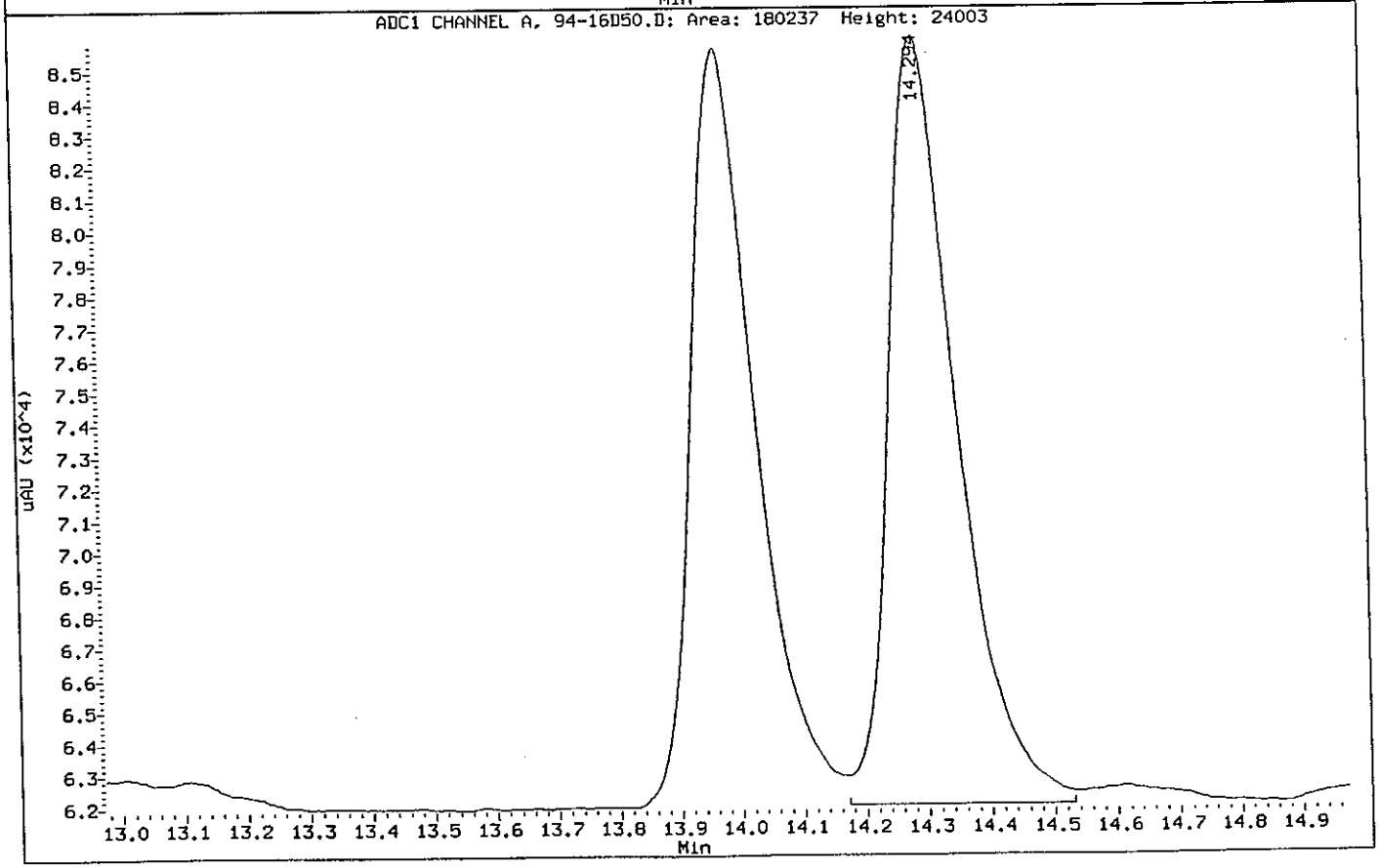
Injection Date: 29-OCT-2001 13:29
Instrument: slc02.i
Client Sample ID: 062B167S101801

Compound: 2-Methyl naphthalene
CAS Number: 91-57-6





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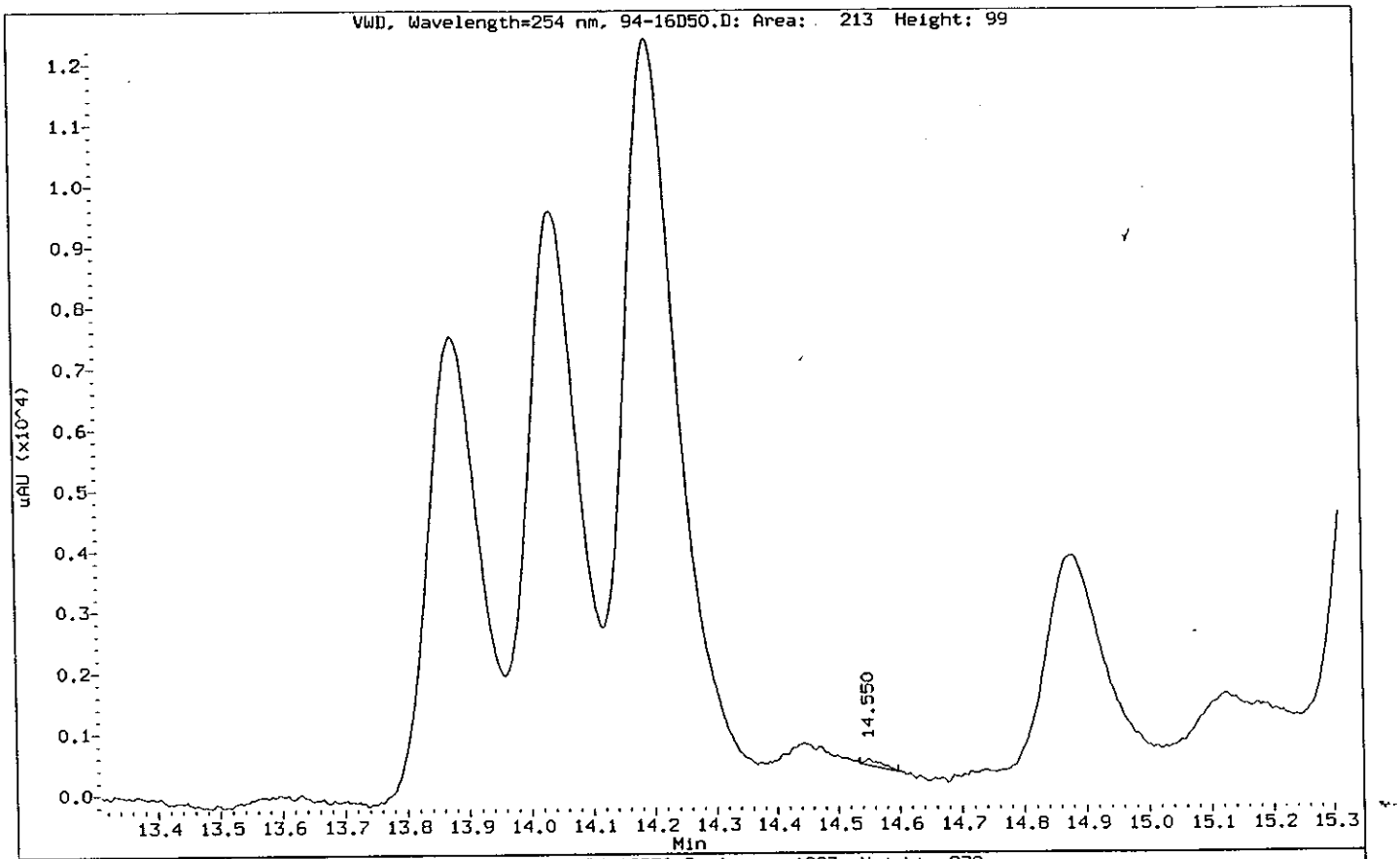
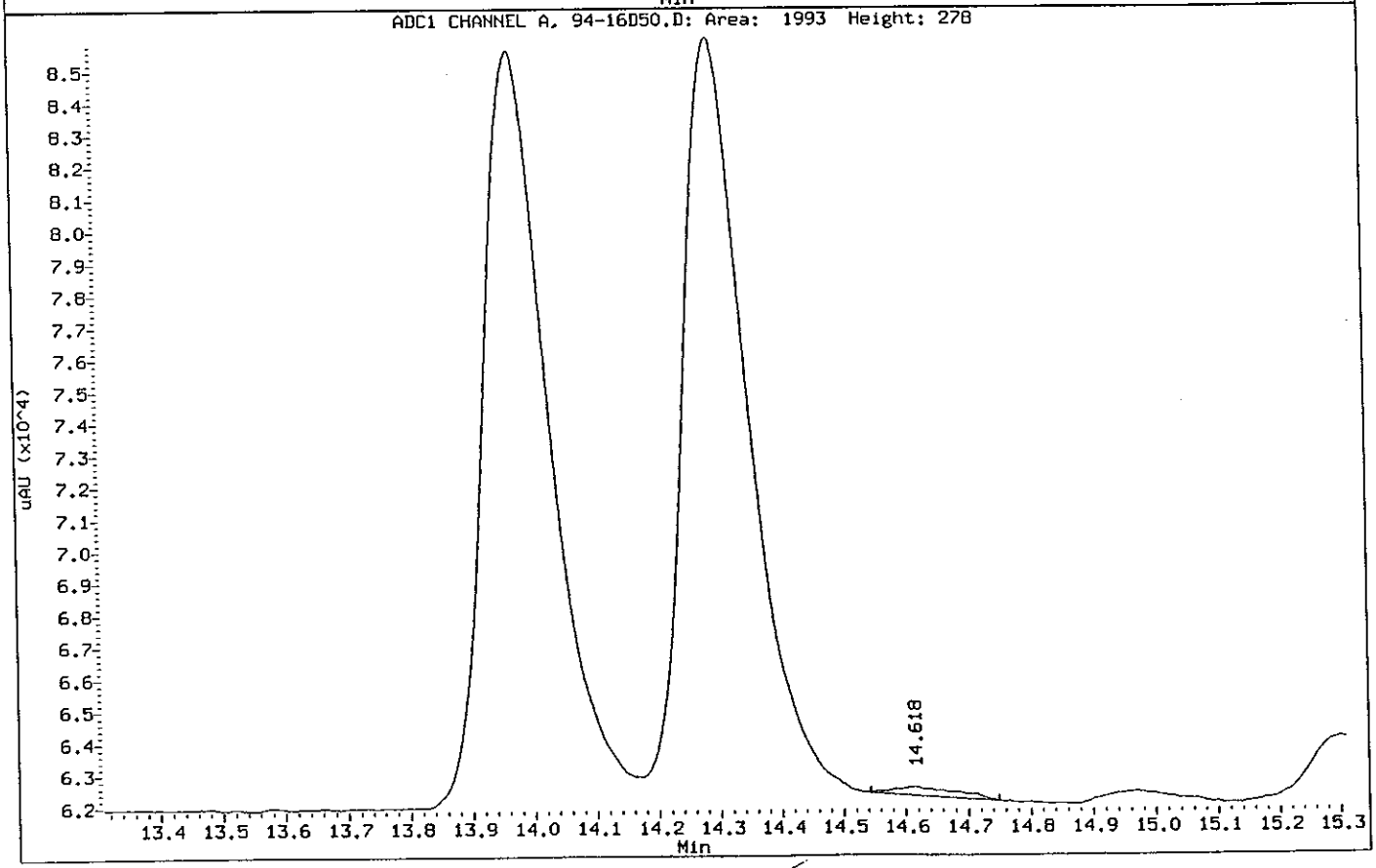
Instrument: slc02.i
Client Sample ID: 062B167S101801DL1

Compound: Acenaphthene
CAS Number: 83-32-9





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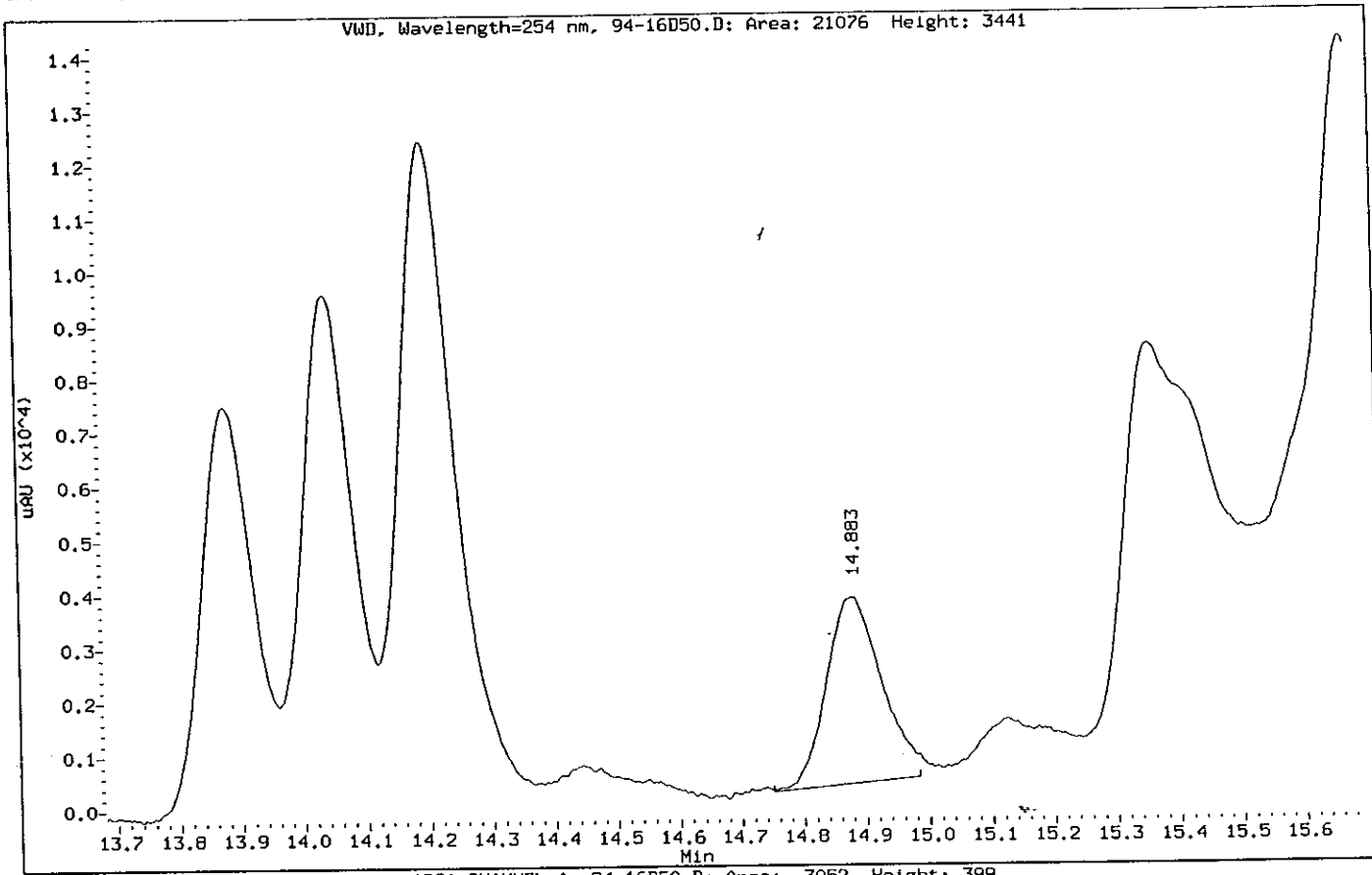
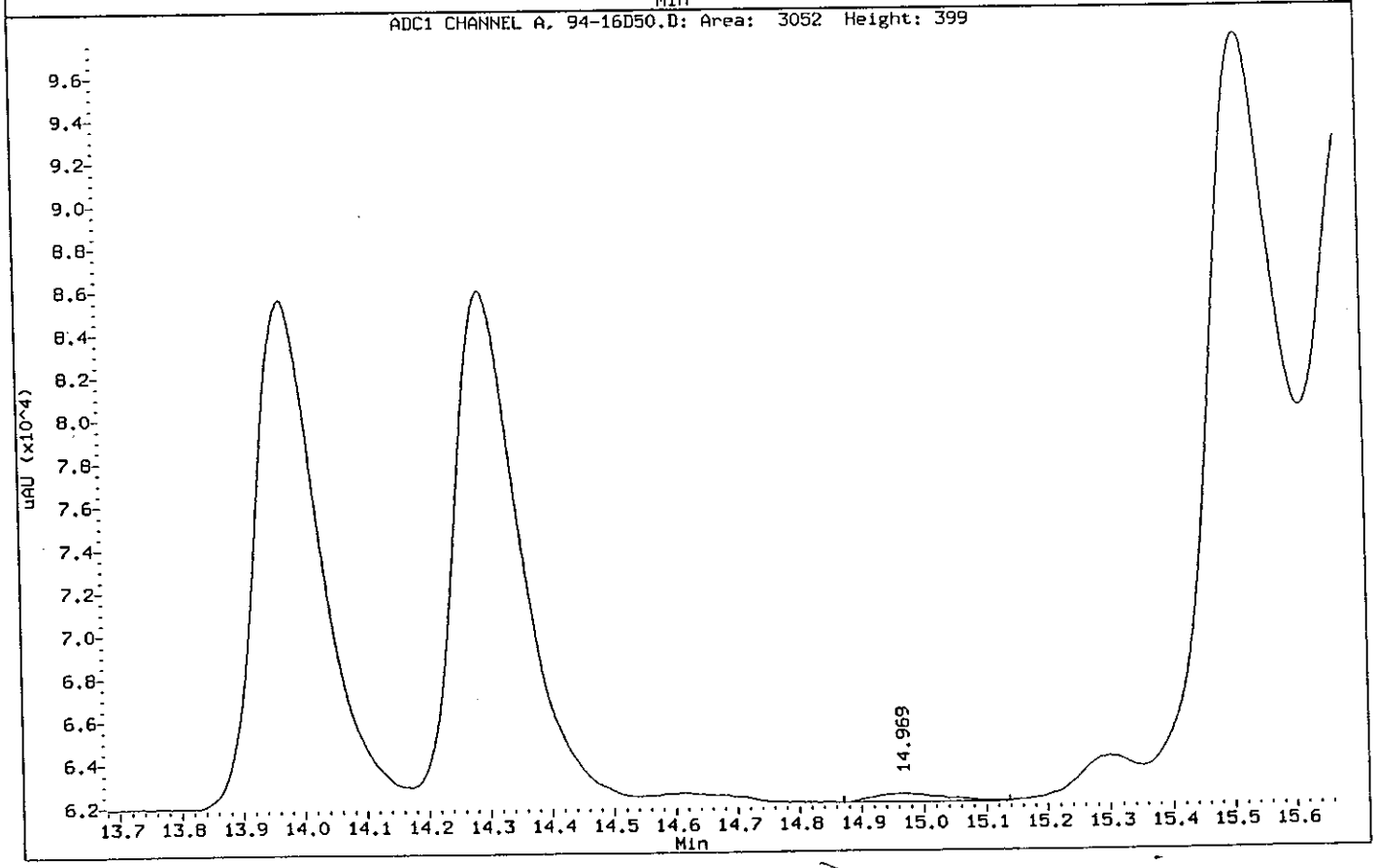
Injection Date: 29-OCT-2001 13:29
Instrument: slc02.i
Client Sample ID: 062B167S101801

Compound: Fluorene
CAS Number: 86-73-7





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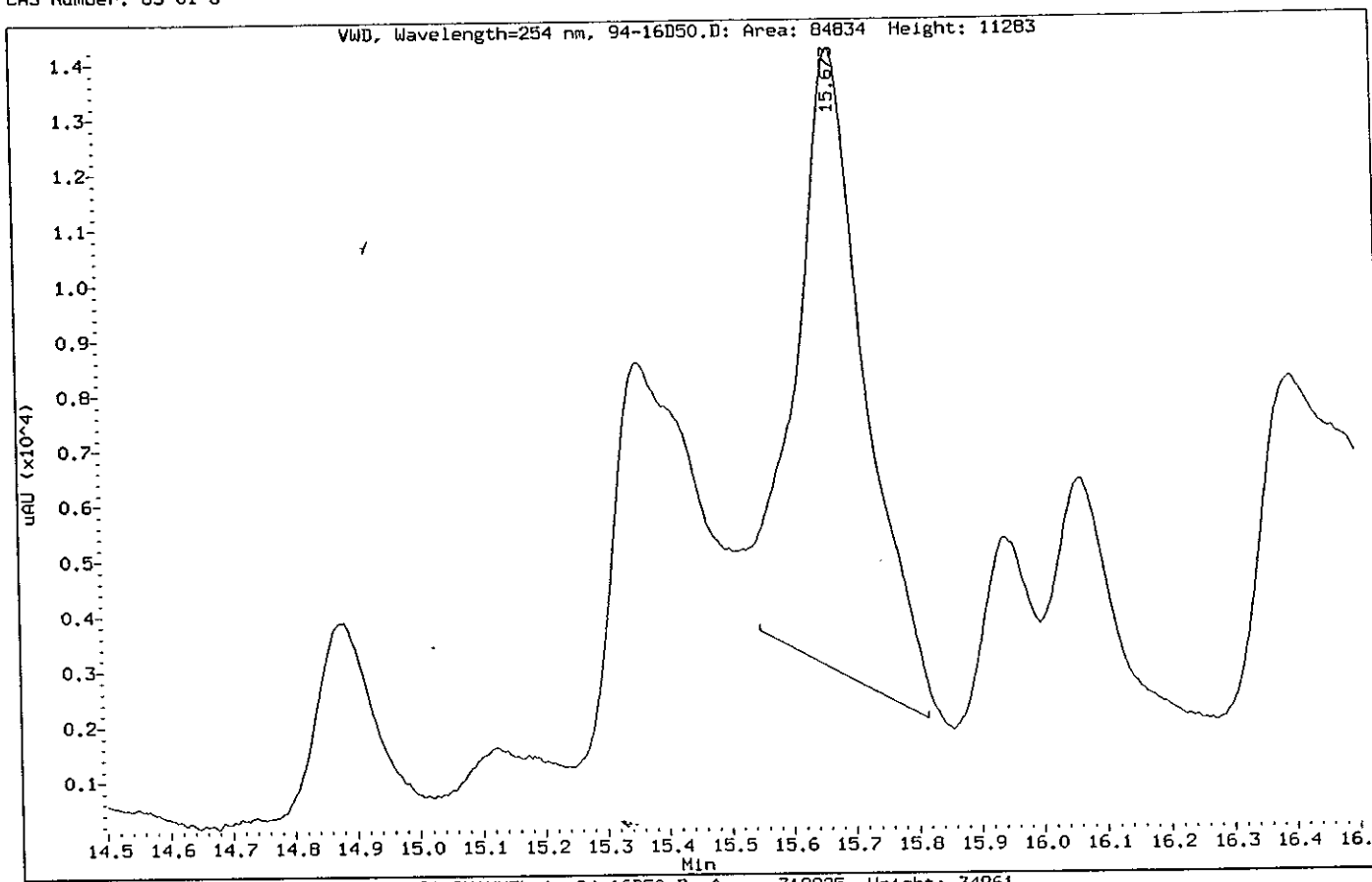
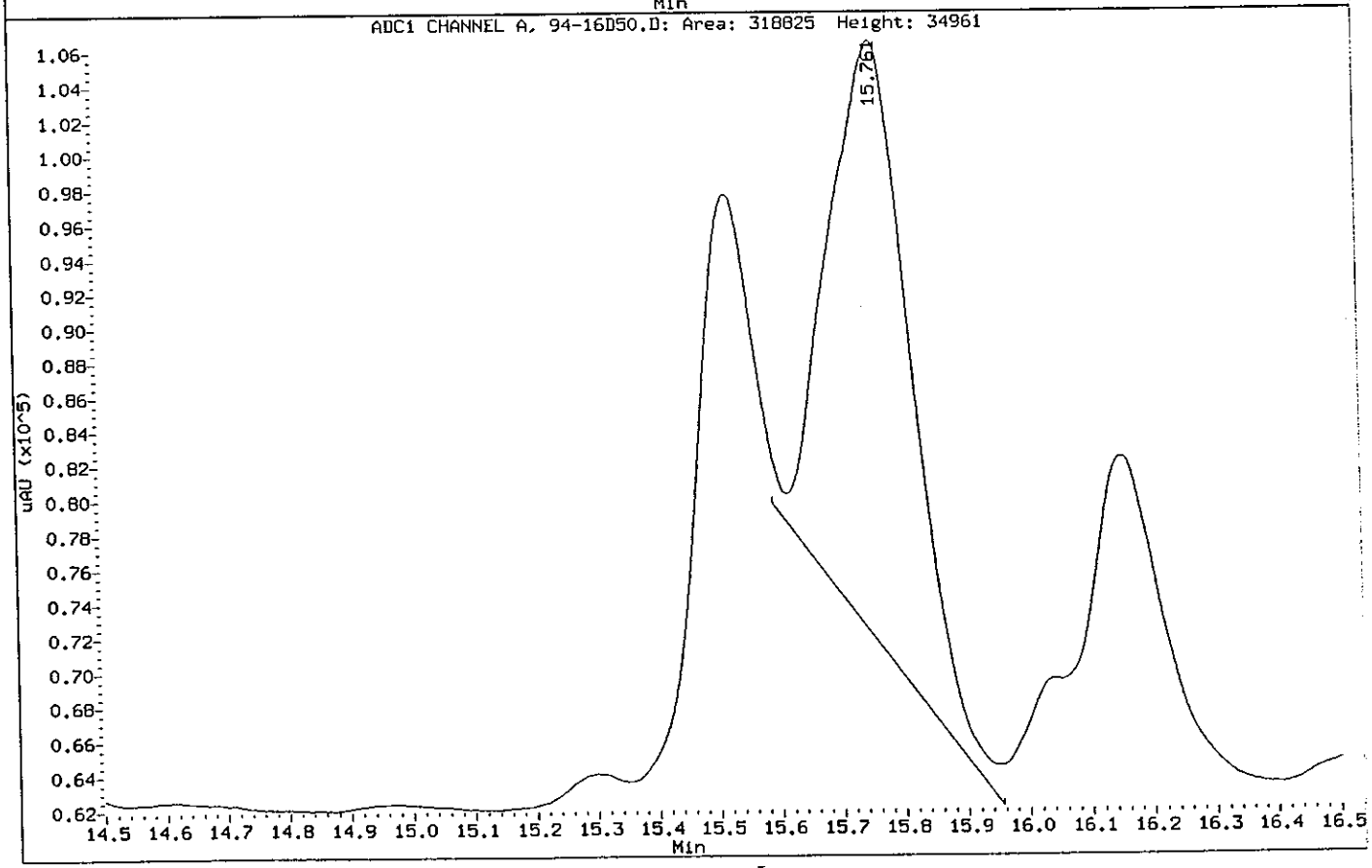
Instrument: slc02.i
Client Sample ID: 062B1675101801

Compound: Phenanthrene
CAS Number: 85-01-8





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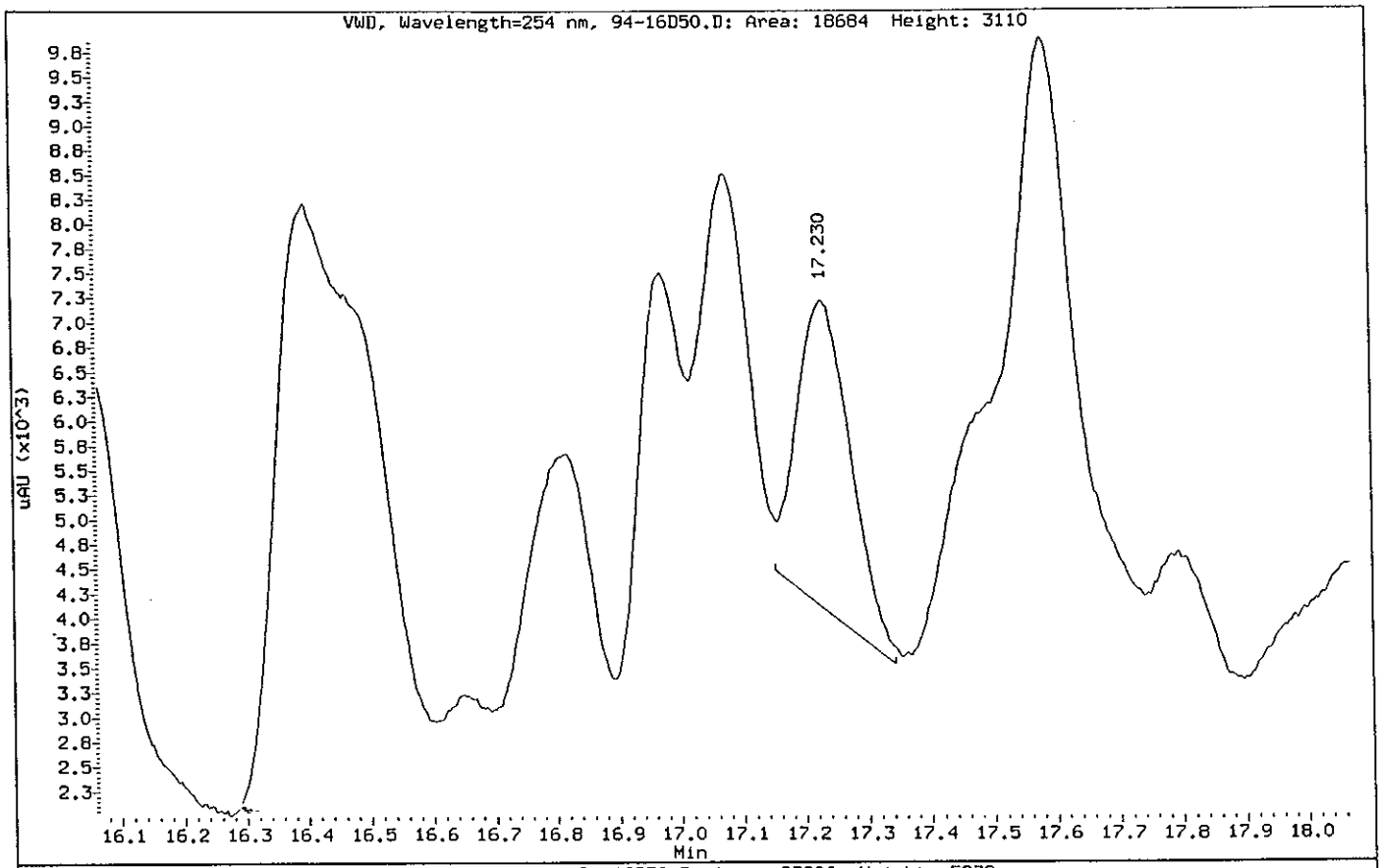
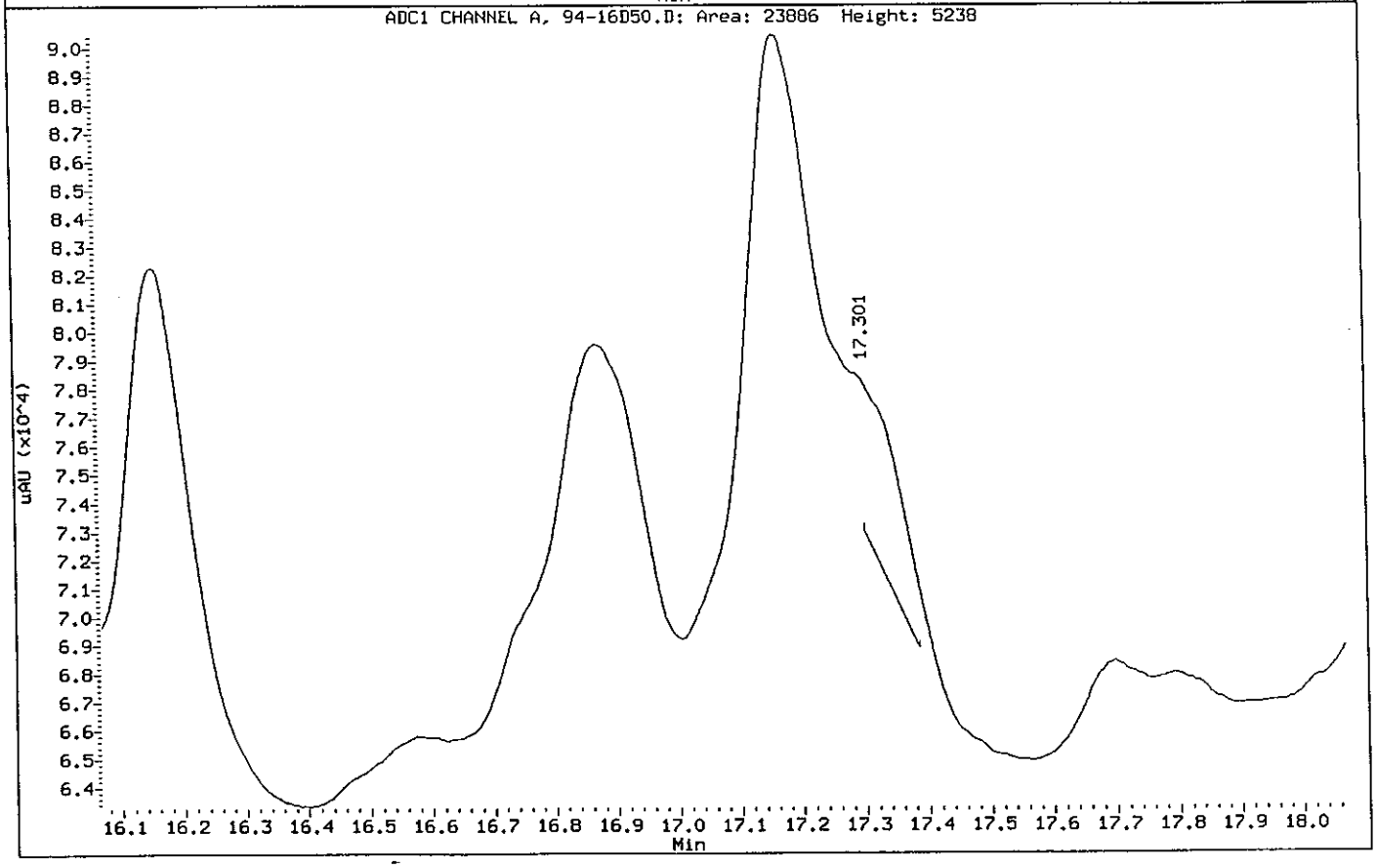
Injection Date: 29-OCT-2001 13:29
Instrument: slc02.i
Client Sample ID: 062B167S101801

Compound: Fluoranthene
CAS Number: 206-44-0





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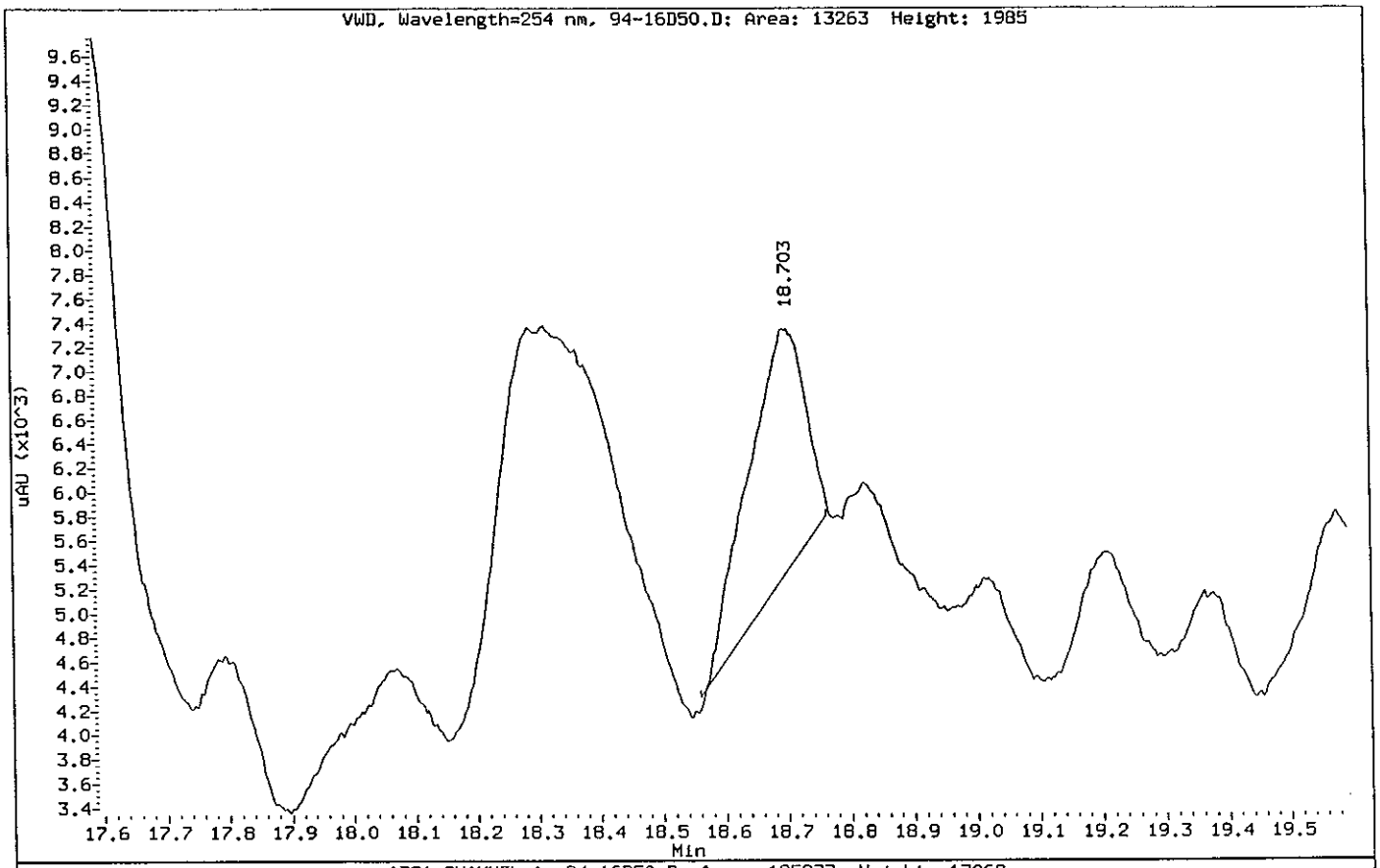
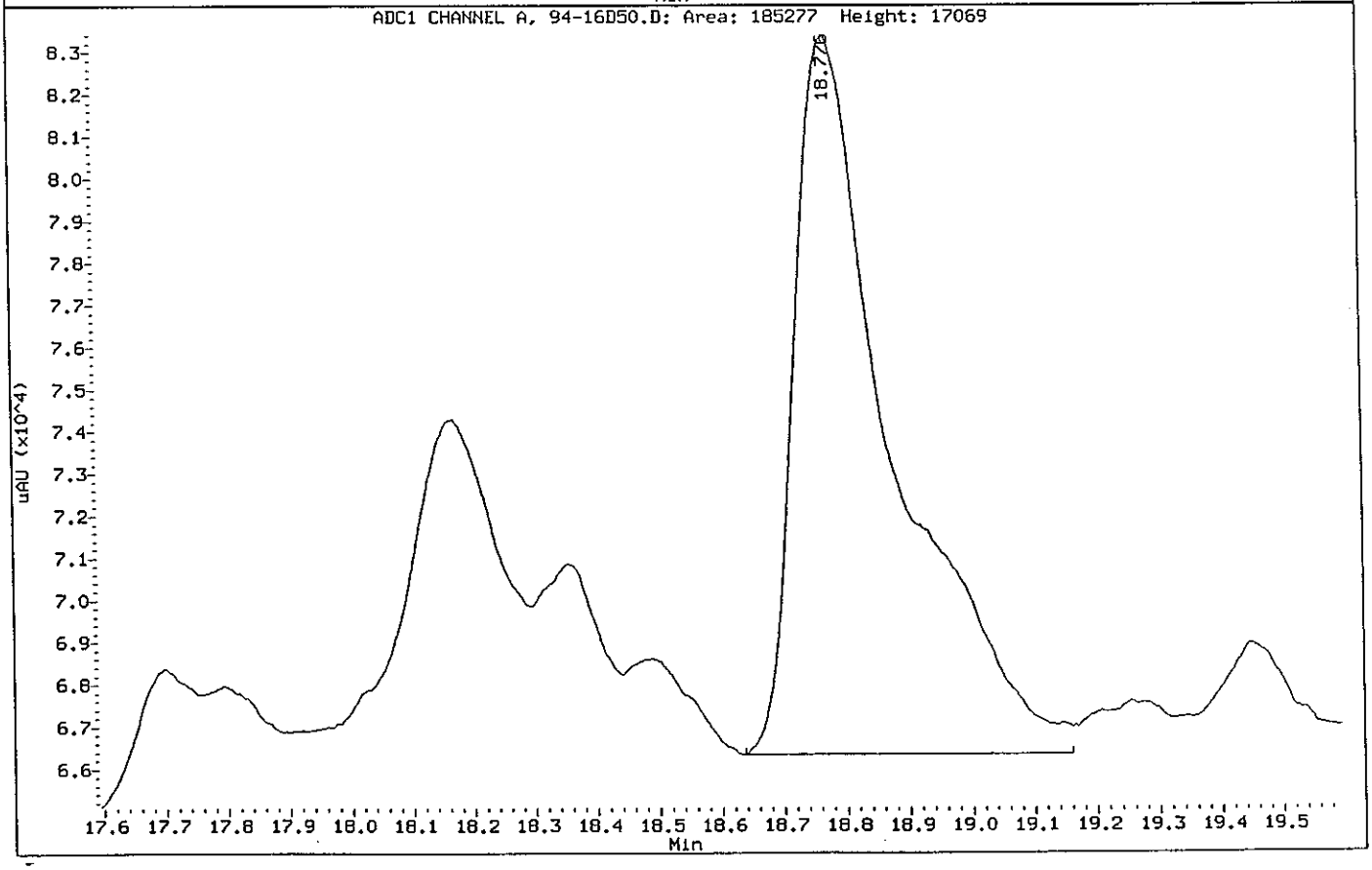
Injection Date: 29-OCT-2001 13:29
Instrument: slc02.i
Client Sample ID: 062B1675101801

Compound: p-Terphenyl-d14 (SURR)
CAS Number: 1718-51-0





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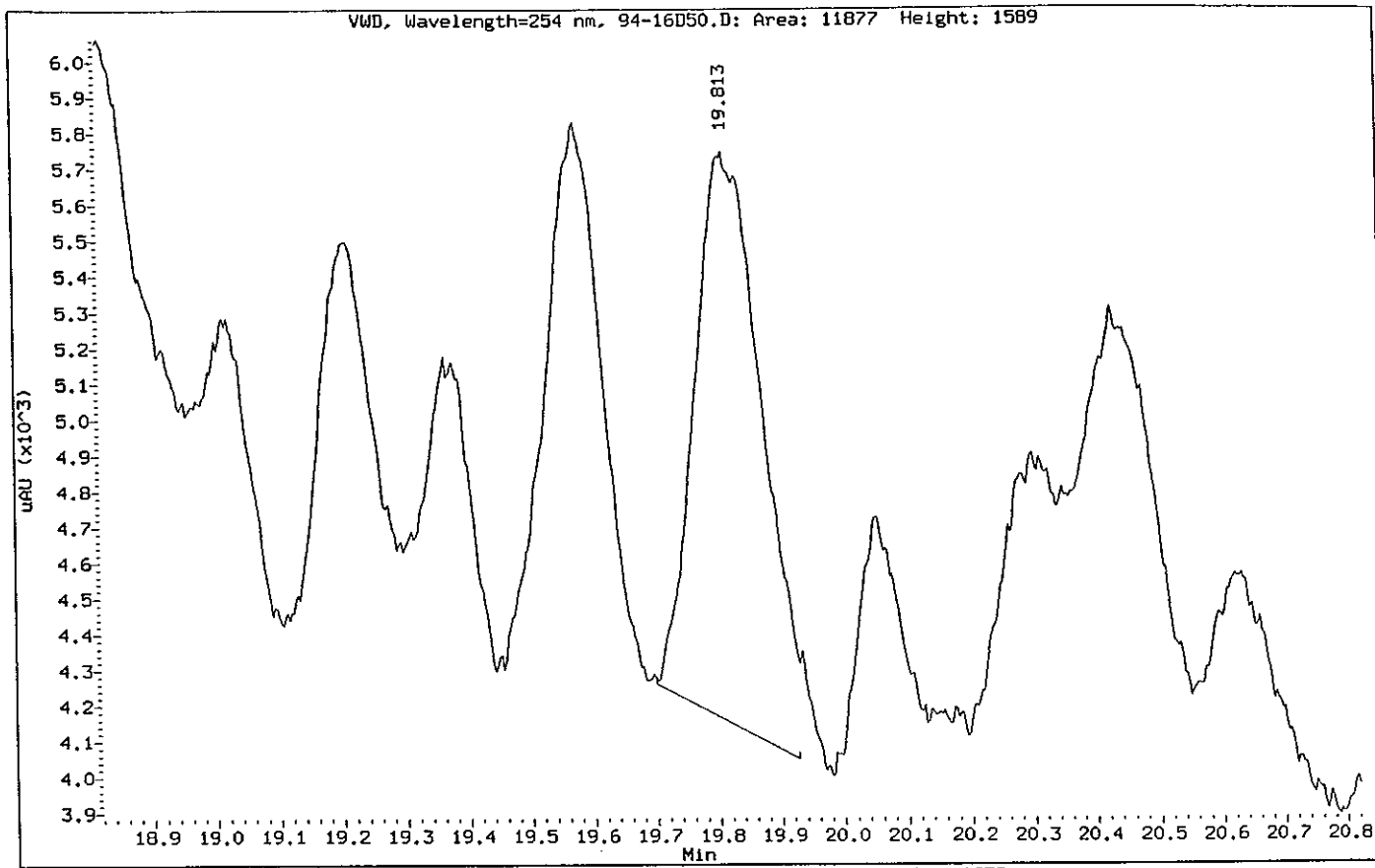
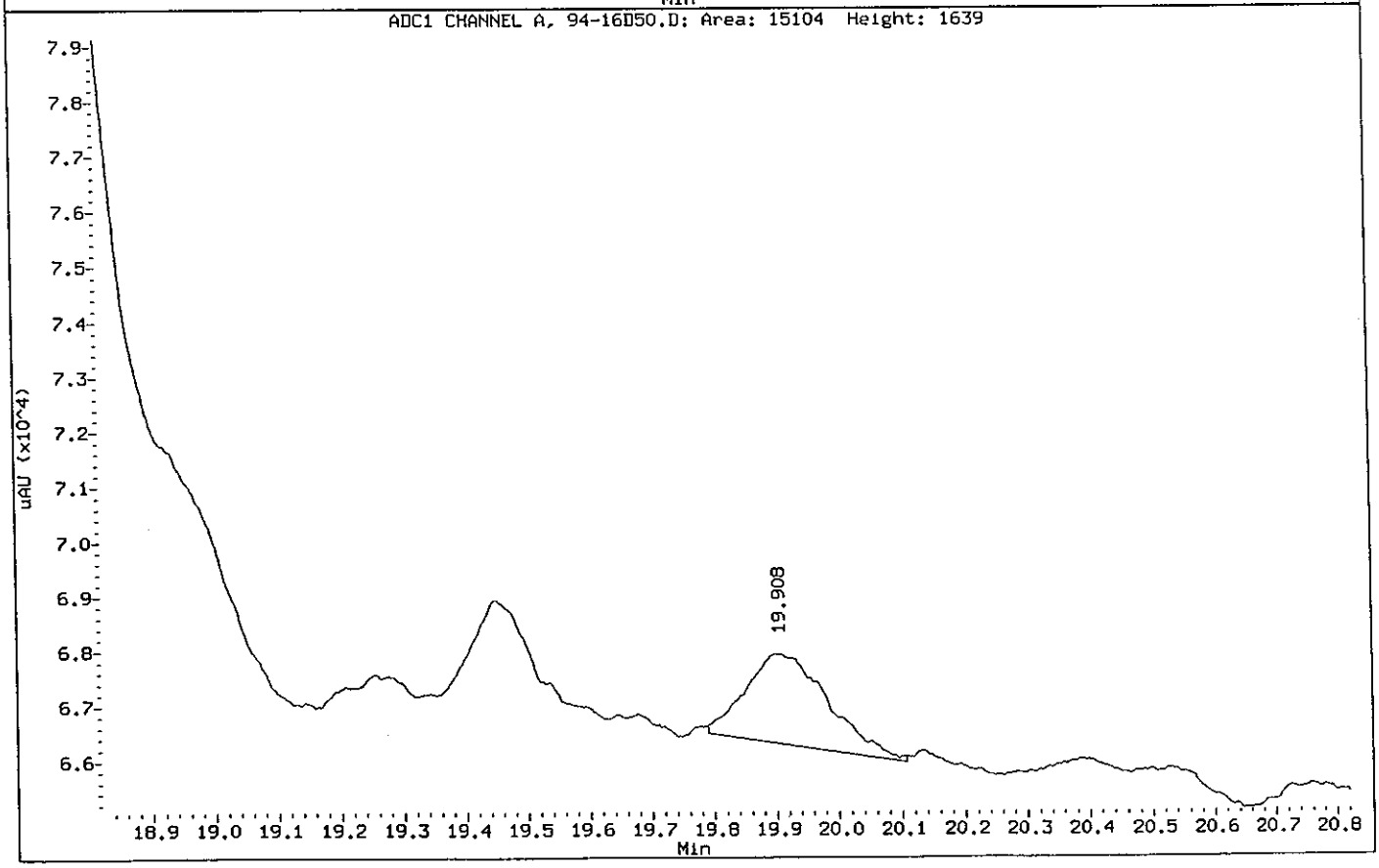
Injection Date: 29-OCT-2001 13:29
Instrument: slc02.i
Client Sample ID: 062B167S101801

Compound: Chrysene
CAS Number: 218-01-9





PEL Laboratories

Data file : \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-7D2.D
Lab Smp Id: 211009407DL1 Client Smp ID: 062B101S101801DL
Inj Date : 29-OCT-2001 14:10
Operator : rood Inst ID: slc02.i
Smp Info : 211009407
Misc Info :
Comment :
Method : \\SVHPLC\ee\chem\slc02.i\L21028R1.b\8310S.m
Meth Date : 02-Nov-2001 08:36 jdonnelly Quant Type: ISTD
Cal Date : 28-OCT-2001 20:26 Cal File: PT2UGML.D
Als bottle: 11
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: navy50.sub
Target Version: 4.04 Sample Matrix: SOIL
Processing Host: SVHPLC

Concentration Formula: Amt * DF * 1/((Ws*(1-(M/100)))/1000)*Vf

Name	Value	Description
DF	2.000	Dilution Factor
Ws	32.400	Extracted weight
M	11.009	% Moisture
Vf	1.000	Final Volume

RT	EXP RT	REL RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	CONCENTRATIONS FINAL (ug/kg)	TARGET RANGE	RATIO
* 1 Carbazole (ISTD)						CAS #: 86-74-8		
10.960	10.610	(1.000)	VWD1A	531938			80.00- 120.00	100.00(M)
11.037	10.610	(1.007)	ADC1A	2080368	10.0000		652.03- 978.05	391.09
3 Acenaphthylene						CAS #: 208-96-8		
13.200	13.013	(1.204)	VWD1A	78478	18.0843	1250		(M)
4 1-Methyl naphthalene						CAS #: 90-12-0		
13.826	13.633	(1.262)	VWD1A	13197	3.70569	257	80.00- 120.00	100.00(M)
13.919	13.633	(1.270)	ADC1A	62632	4.75227	330	296.60- 444.90	474.59
5 2-Methyl naphthalene						CAS #: 91-57-6		
14.173	13.973	(1.293)	VWD1A	102761	20.3802	1410	80.00- 120.00	100.00(M)
14.260	13.973	(1.301)	ADC1A	28999	2.60159	180	191.55- 287.32	28.22

					CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO
RT	EXP RT	REL RT	SIGNAL	RESPONSE				
6 Acenaphthene						CAS #: 83-32-9		
14.520	14.310	(1.325)	VWD1A	5959	2.60762	181	80.00- 120.00	100.00(M)
14.585	14.310	(1.331)	ADC1A	60712	2.31788	161	964.12-1446.17	1018.83
7 Fluorene						CAS #: 86-73-7		
14.856	14.680	(1.356)	VWD1A	112101	4.24954	295	80.00- 120.00	100.00(M)
15.260	14.680	(1.392)	ADC1A	46458	14.5397	1010	9.06- 13.59	41.44
8 Phenanthrene						CAS #: 85-01-8		
15.660	15.500	(1.429)	VWD1A	850352	11.5888	804	80.00- 120.00	100.00(M)
15.750	15.500	(1.437)	ADC1A	2294688	32.9532	2280	78.58- 117.87	269.85
10 Fluoranthene						CAS #: 206-44-0		
17.216	17.066	(1.000)	VWD1A	464390	26.4736	1840	80.00- 120.00	100.00(M)
17.299	17.066	(1.000)	ADC1A	1183321			6.36- 9.54	254.81
11 Pyrene						CAS #: 129-00-0		
17.680	17.606	(1.613)	VWD1A	39087	2.90330	201	80.00- 120.00	100.00(MH)
17.797	17.606	(1.624)	ADC1A	833106	4.63246	321	930.64-1395.96	2131.41
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.703	18.593	(1.000)	VWD1A	3471556	222.587	15400	80.00- 120.00	100.00(AR)
18.780	18.593	(1.000)	ADC1A	8668159	20.3053	1410	2246.35-3369.53	249.69
14 Chrysene						CAS #: 218-01-9		
19.806	19.820	(1.807)	VWD1A	1066235	18.1348	1260	80.00- 120.00	100.00(MH)
19.884	19.820	(1.814)	ADC1A	2294061	16.3829	1140	190.14- 285.21	215.16

QC Flag Legend

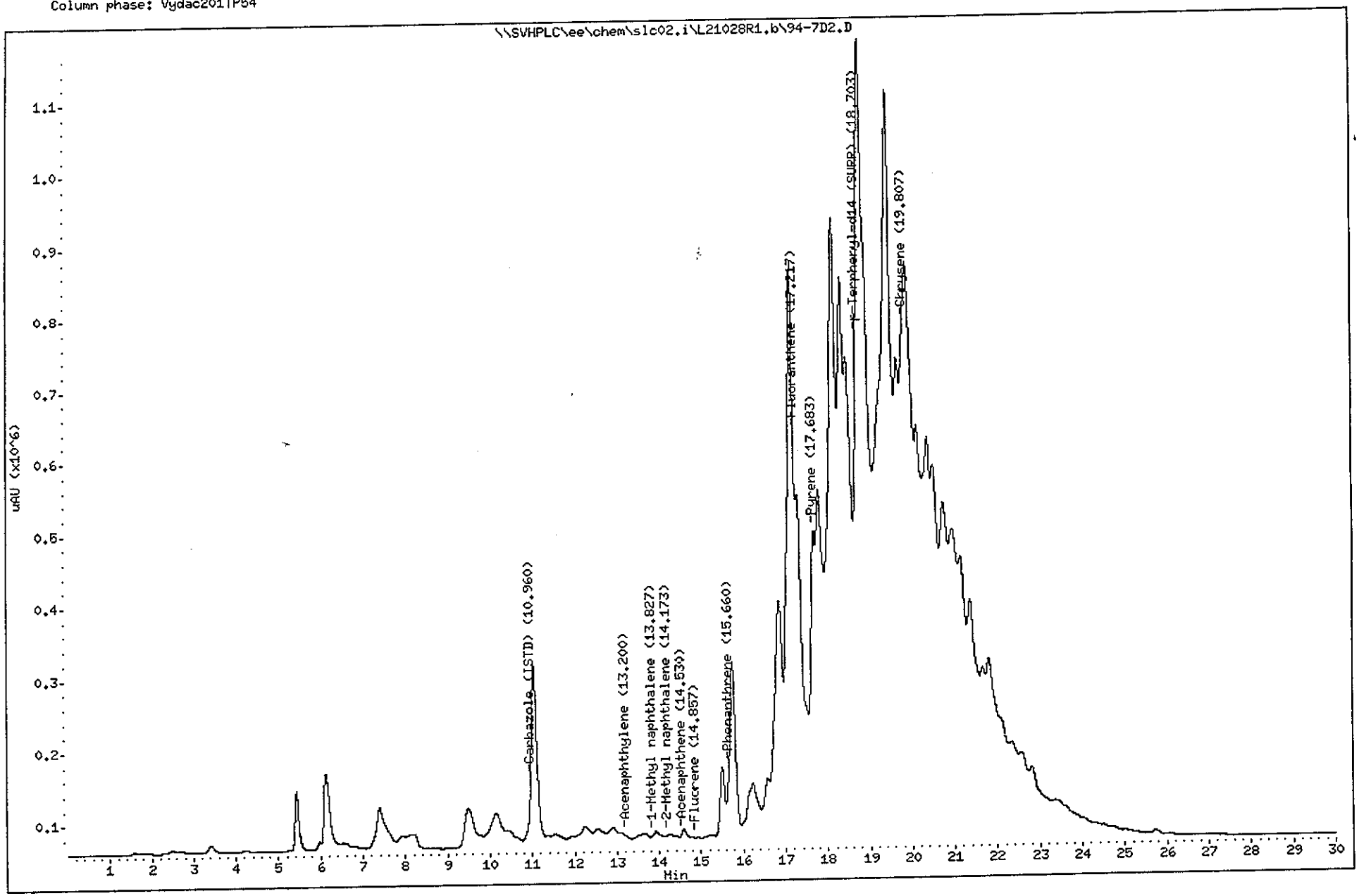
A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-7D2.D
Date : 29-OCT-2001 14:10
Client ID: 062B101S101801DL
Sample Info: 211009407

Column phase: Vydac201TP54

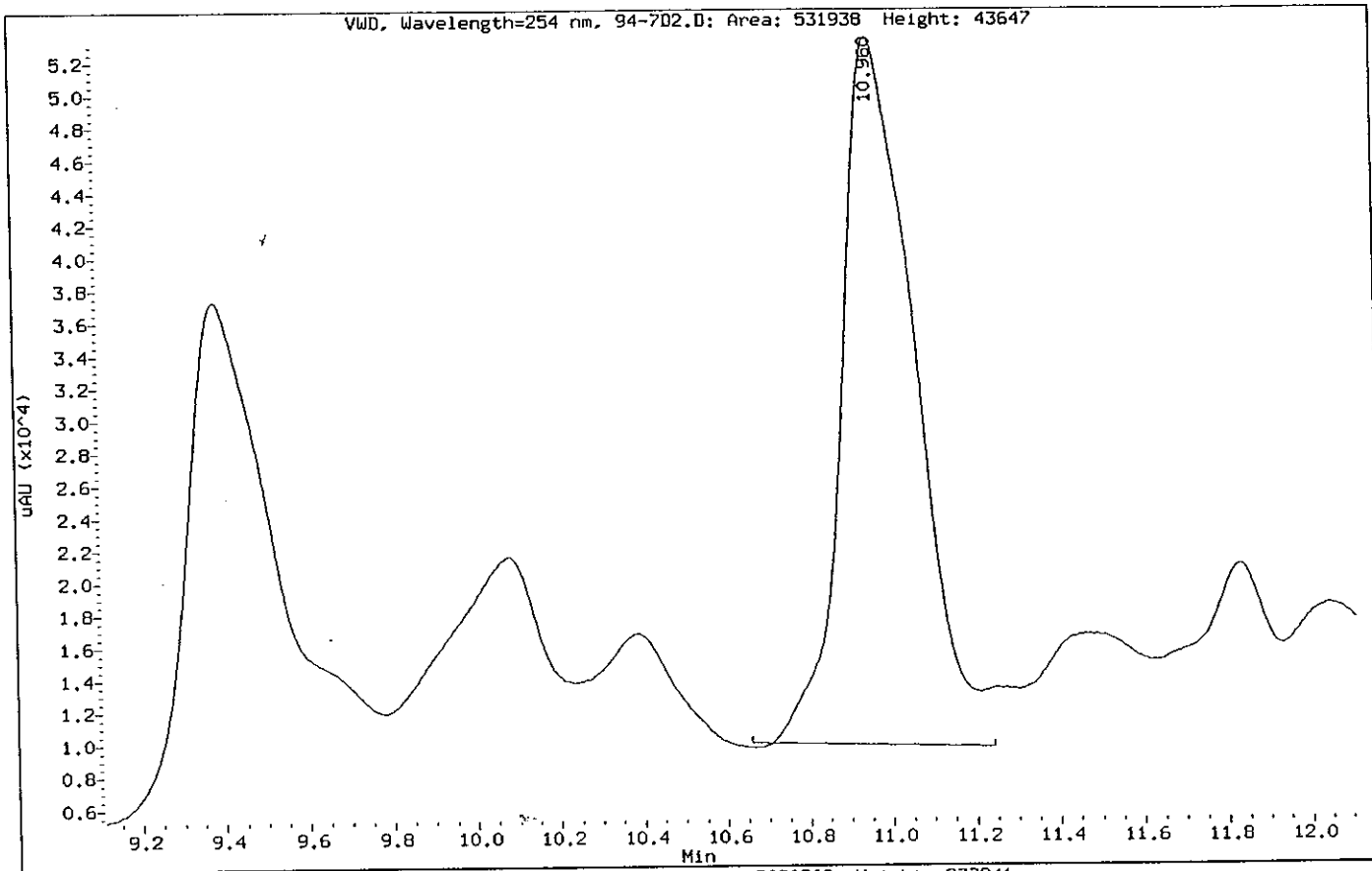
Instrument: slc02.i

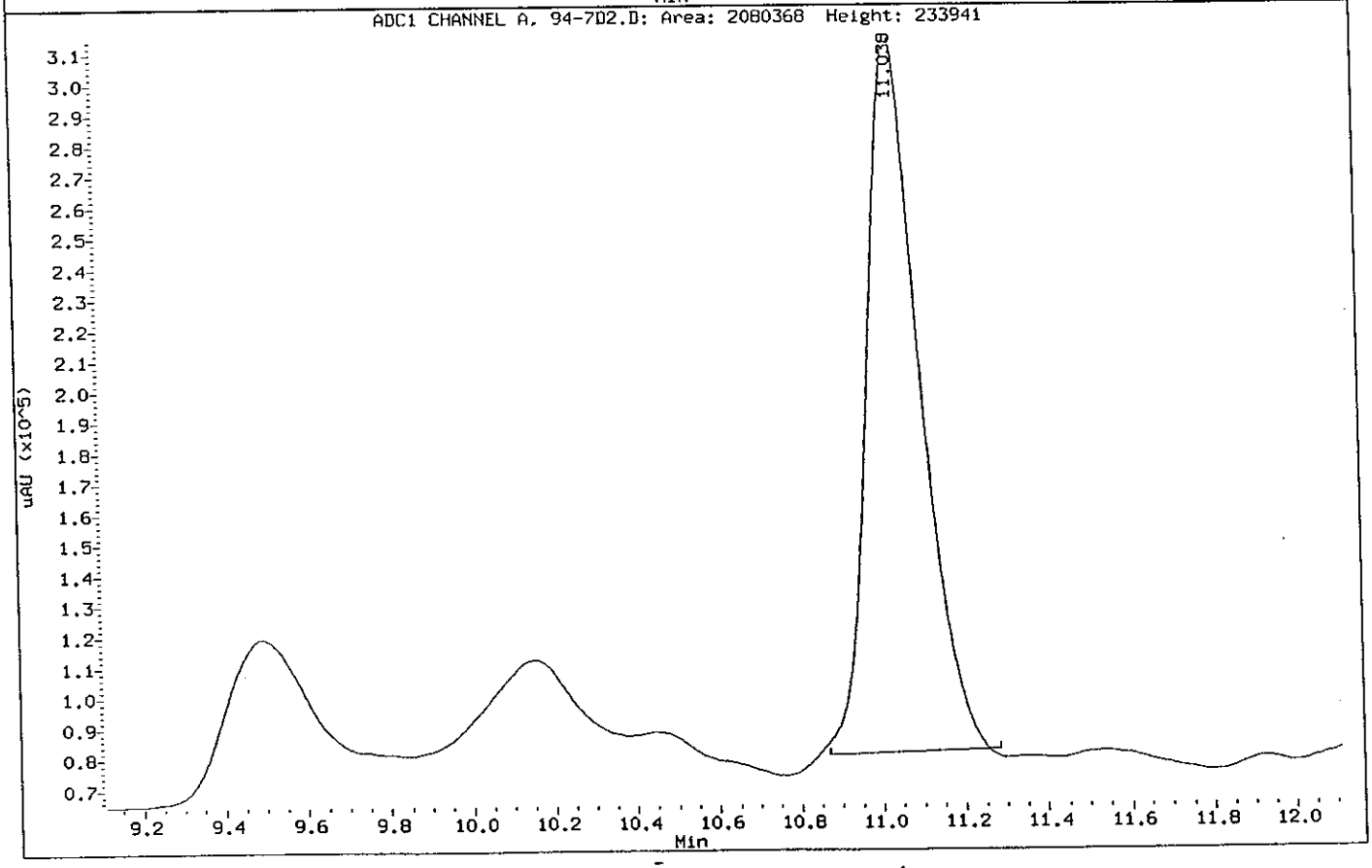
Operator: rood
Column diameter: 4.60



Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-7D2.D
Injection Date: 29-OCT-2001 14:10
Instrument: slc02.i
Client Sample ID: 062B1015101801DL

Compound: Carbazole (ISTD)
CAS Number: 86-74-8





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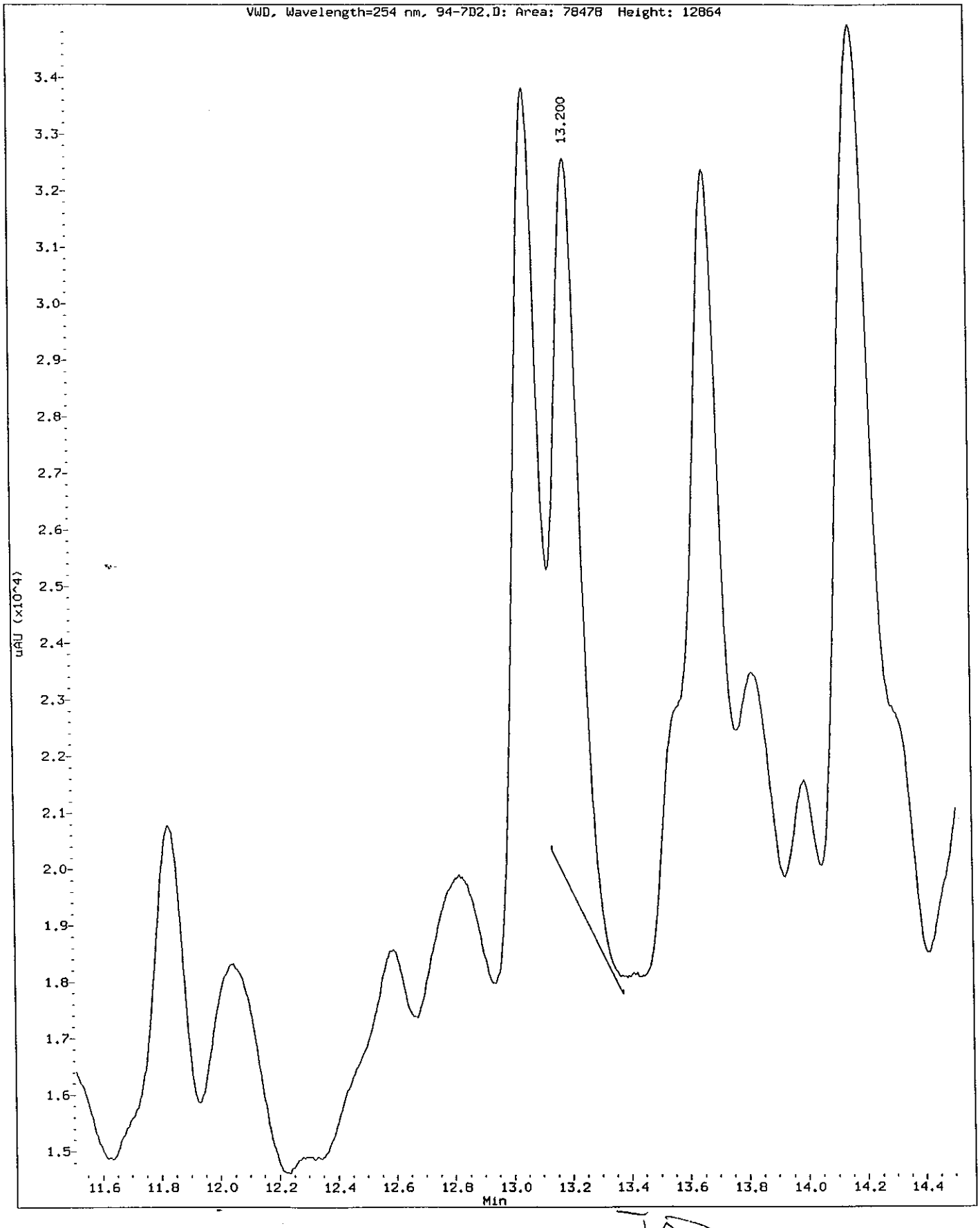
Injection Date: 29-OCT-2001 14:10
Instrument: slc02.i
Client Sample ID: 062B101S101801DL

Compound: Acenaphthylene
CAS Number: 208-96-8



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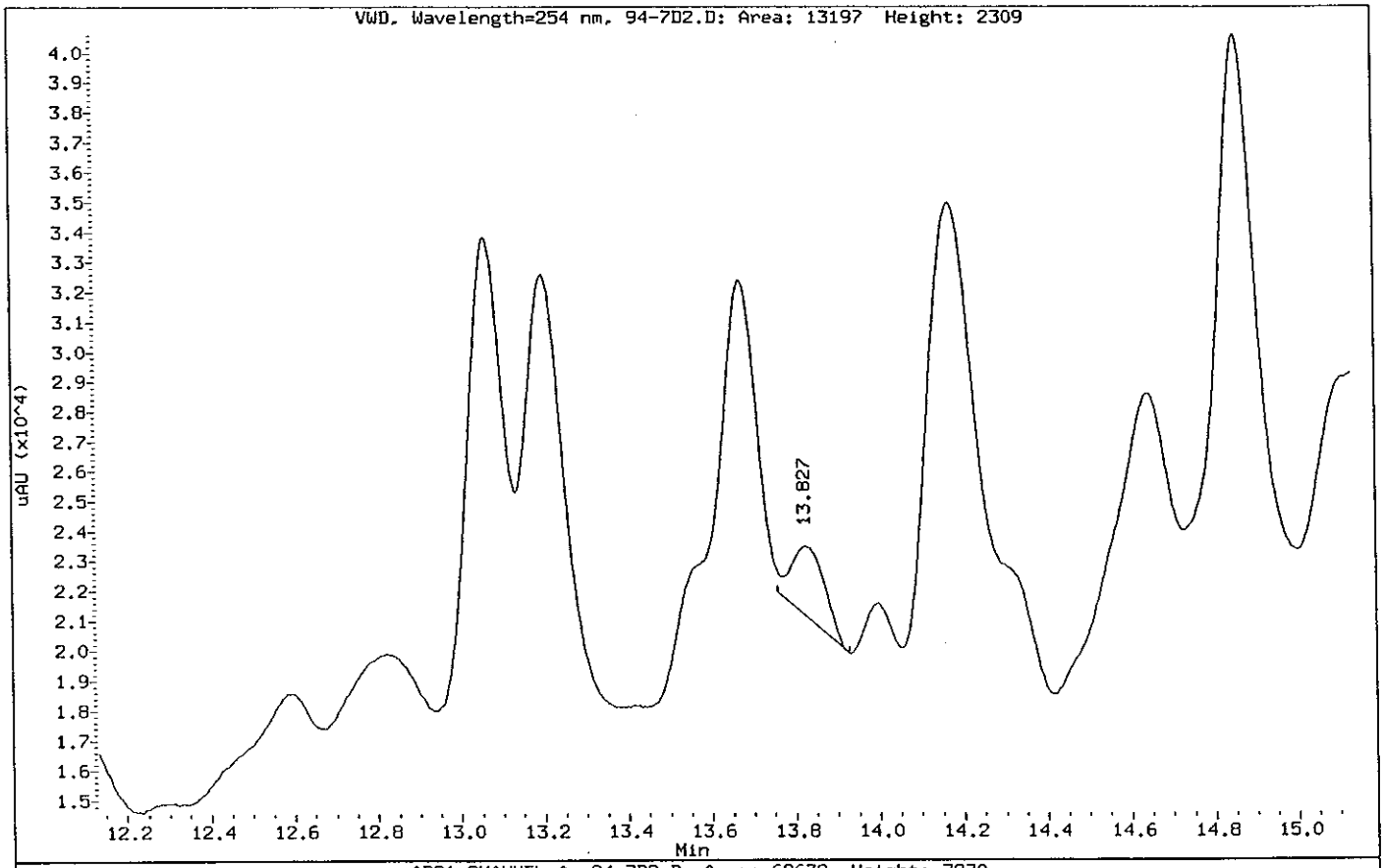
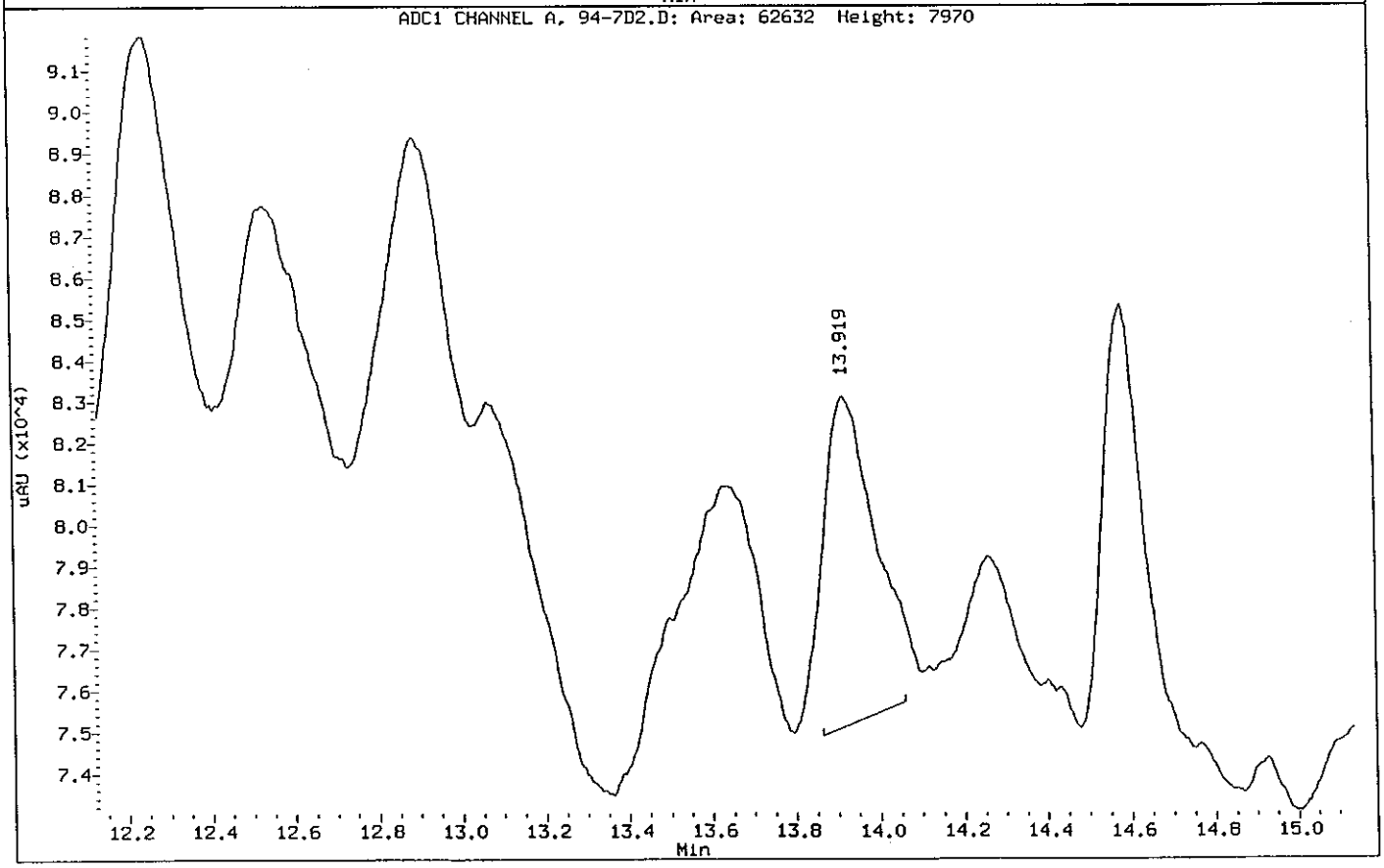
Injection Date: 29-OCT-2001 14:10
Instrument: slc02.i
Client Sample ID: 062B101S101801DL

Compound: 1-Methyl naphthalene
CAS Number: 90-12-0





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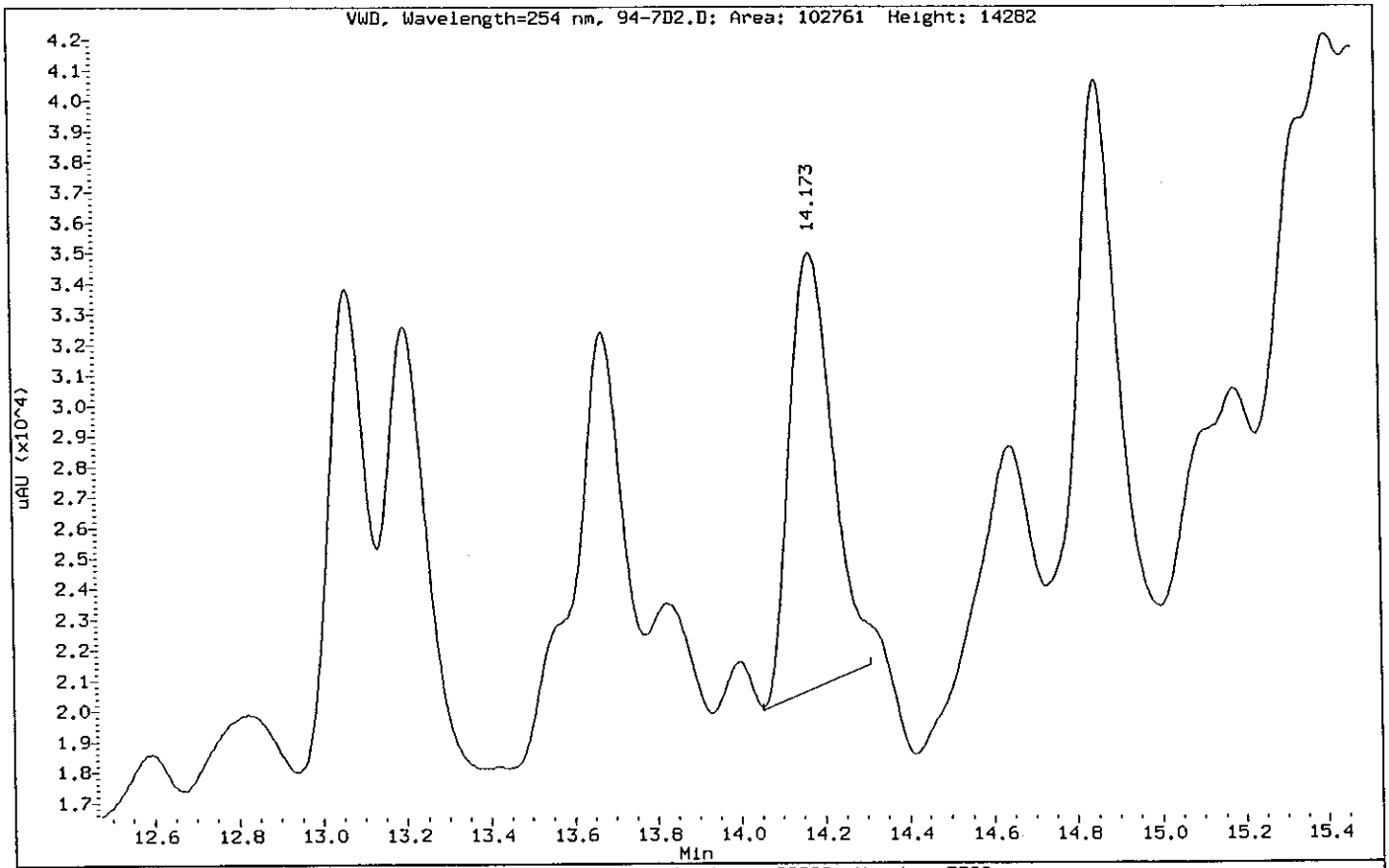
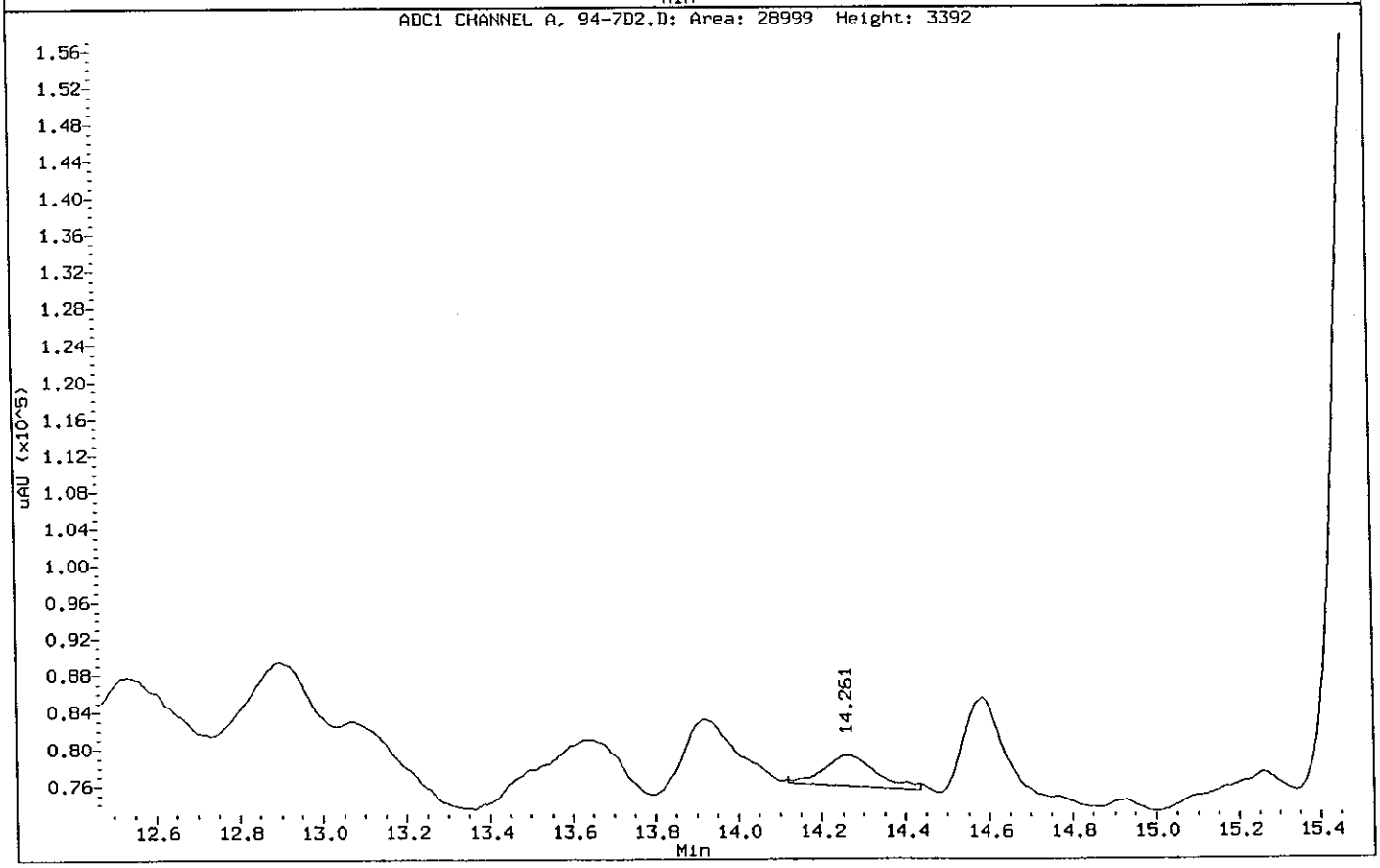
Injection Date: 29-OCT-2001 14:10
Instrument: slc02.i
Client Sample ID: 062B101S101801DL

Compound: 2-Methyl naphthalene
CAS Number: 91-57-6





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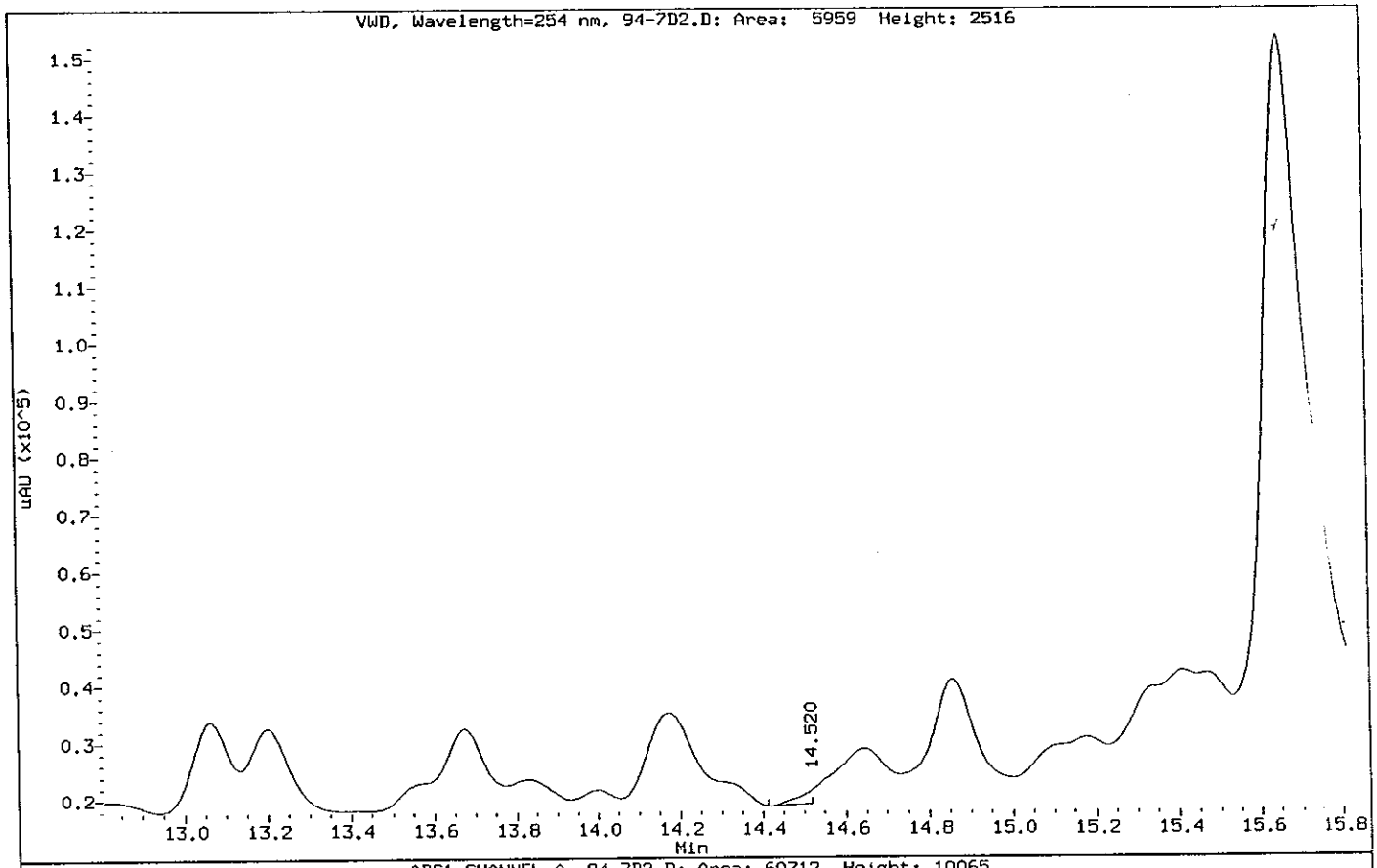
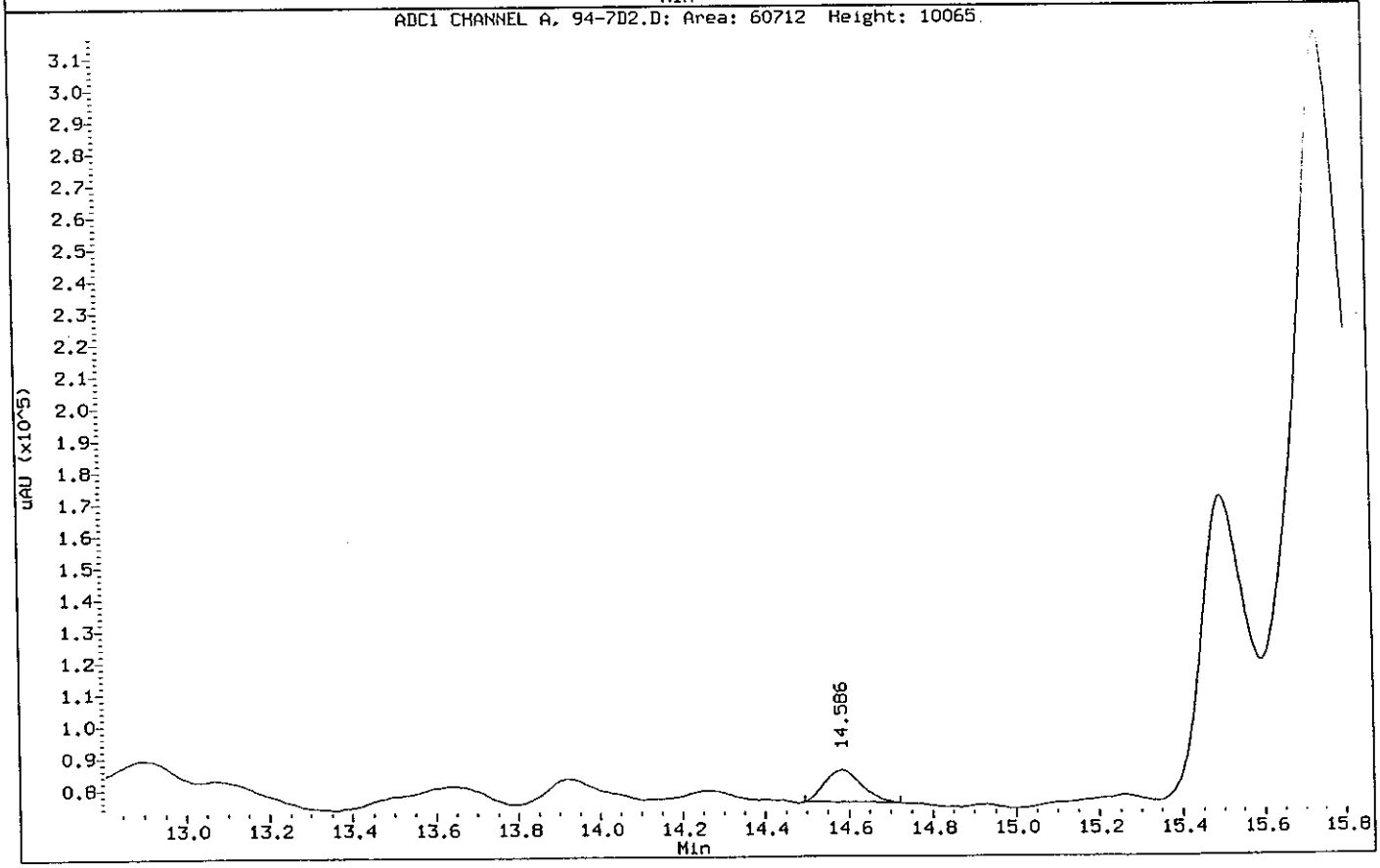
Injection Date: 29-OCT-2001 14:10
Instrument: slc02.i
Client Sample ID: 062B101S101B01DL

Compound: Acenaphthene
CAS Number: 83-32-9

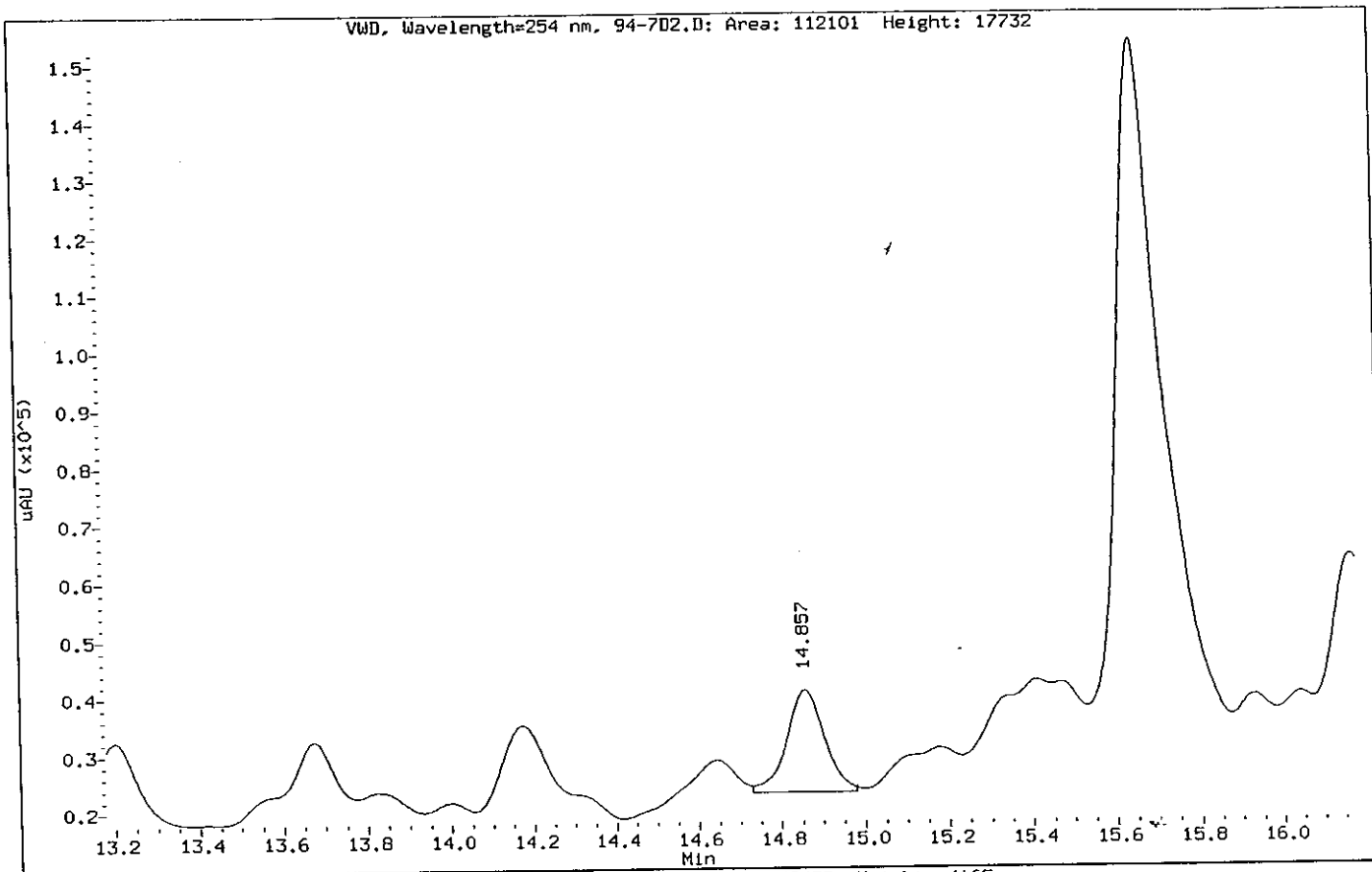


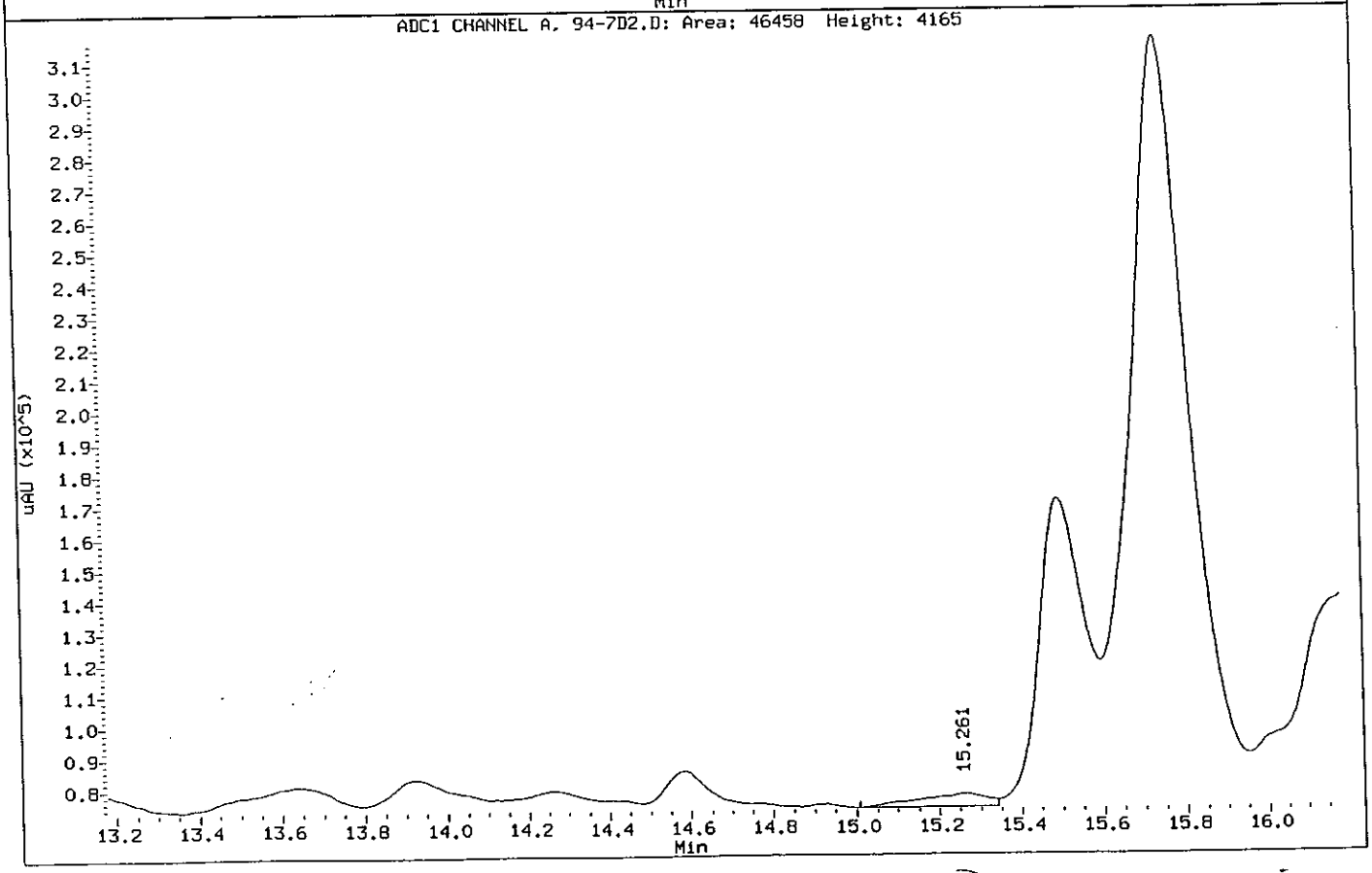


TND

Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-7D2.D
Injection Date: 29-OCT-2001 14:10
Instrument: slc02.i
Client Sample ID: 062B1015101801DL

Compound: Fluorene
CAS Number: 86-73-7





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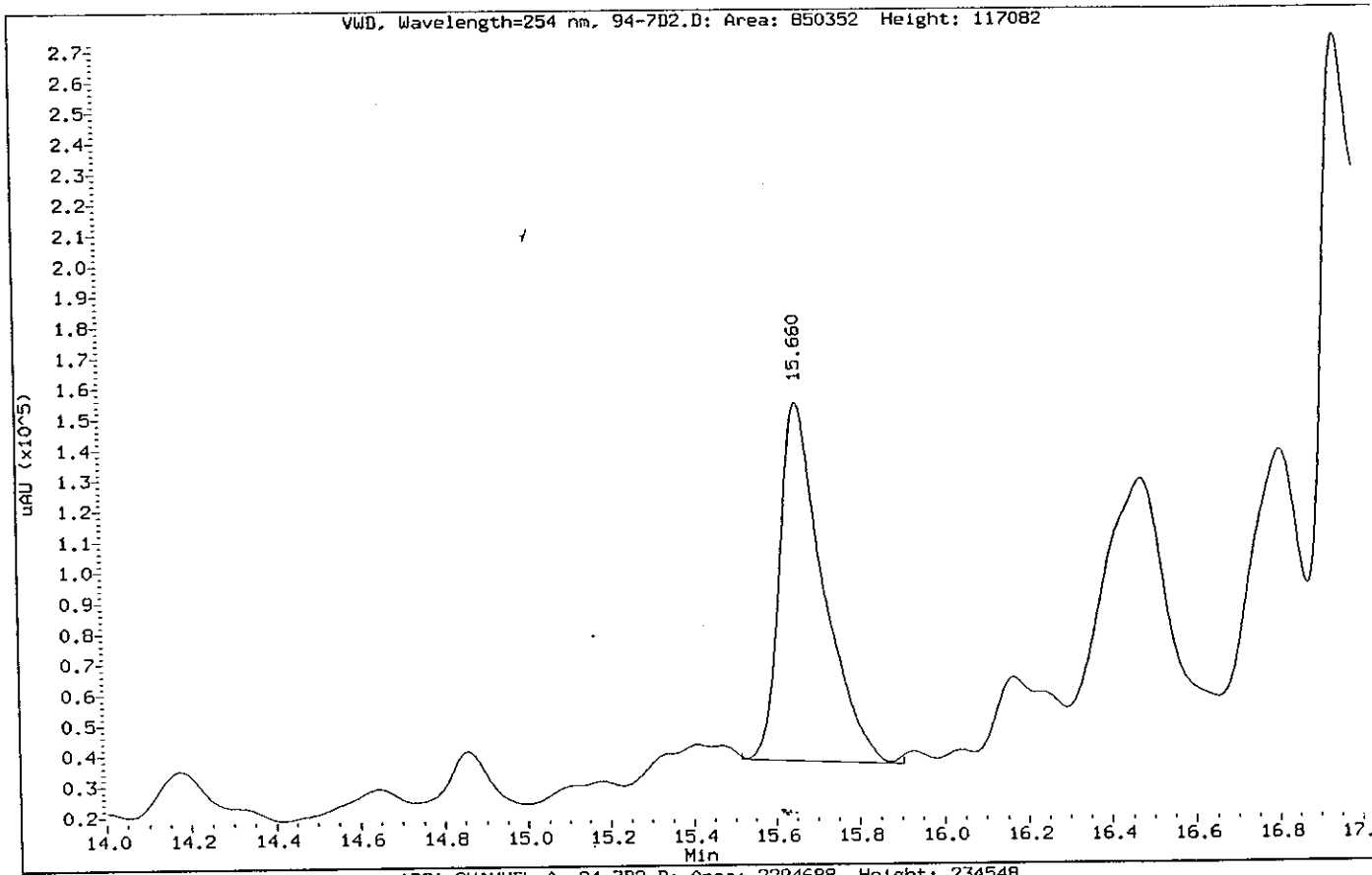
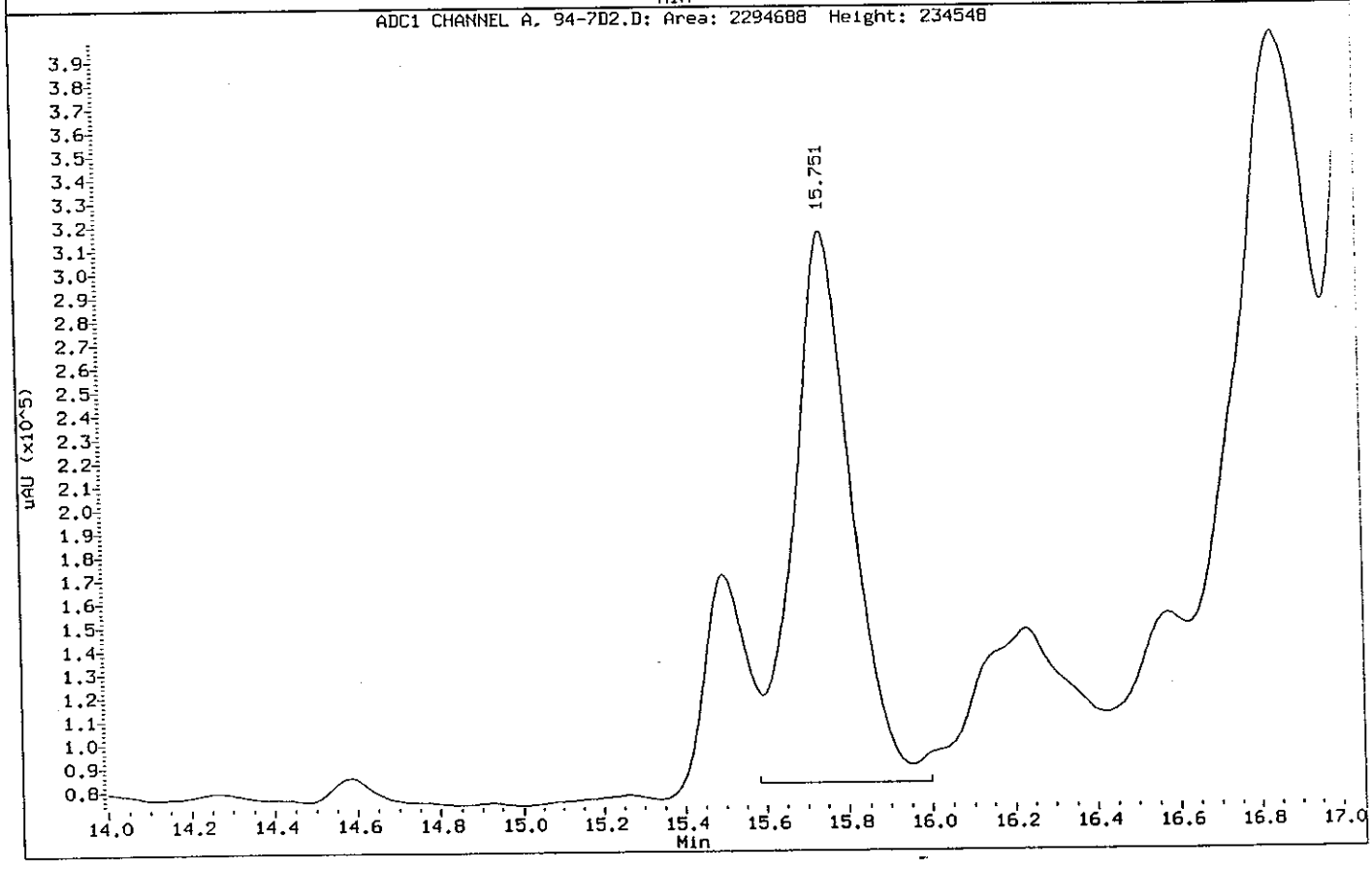
Injection Date: 29-OCT-2001 14:10
Instrument: slc02.i
Client Sample ID: 062B101S101801DL

Compound: Phenanthrene
CAS Number: 85-01-8





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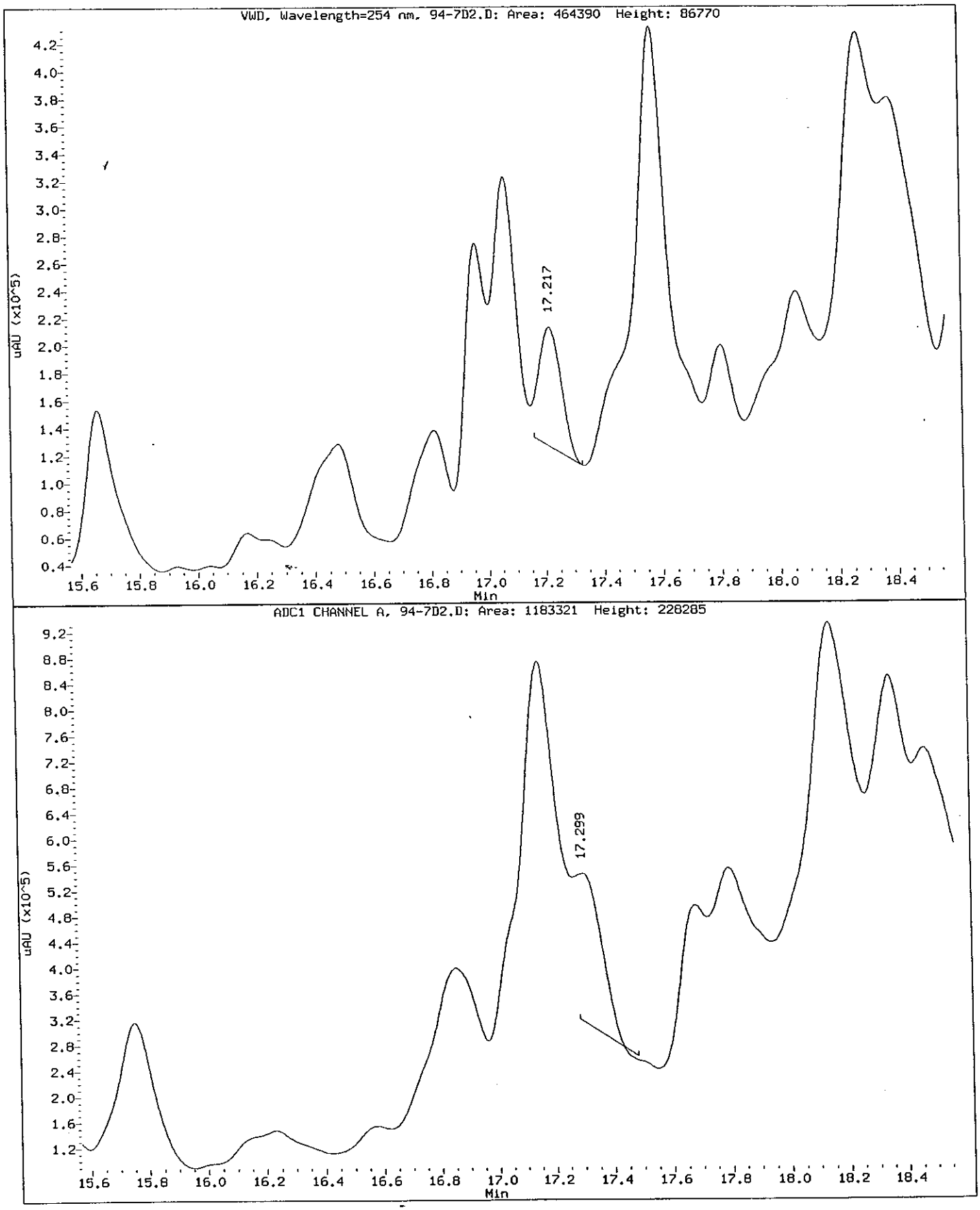
Injection Date: 29-OCT-2001 14:10
Instrument: slc02.i
Client Sample ID: 062B101S101801DL

Compound: Fluoranthene
CAS Number: 206-44-0



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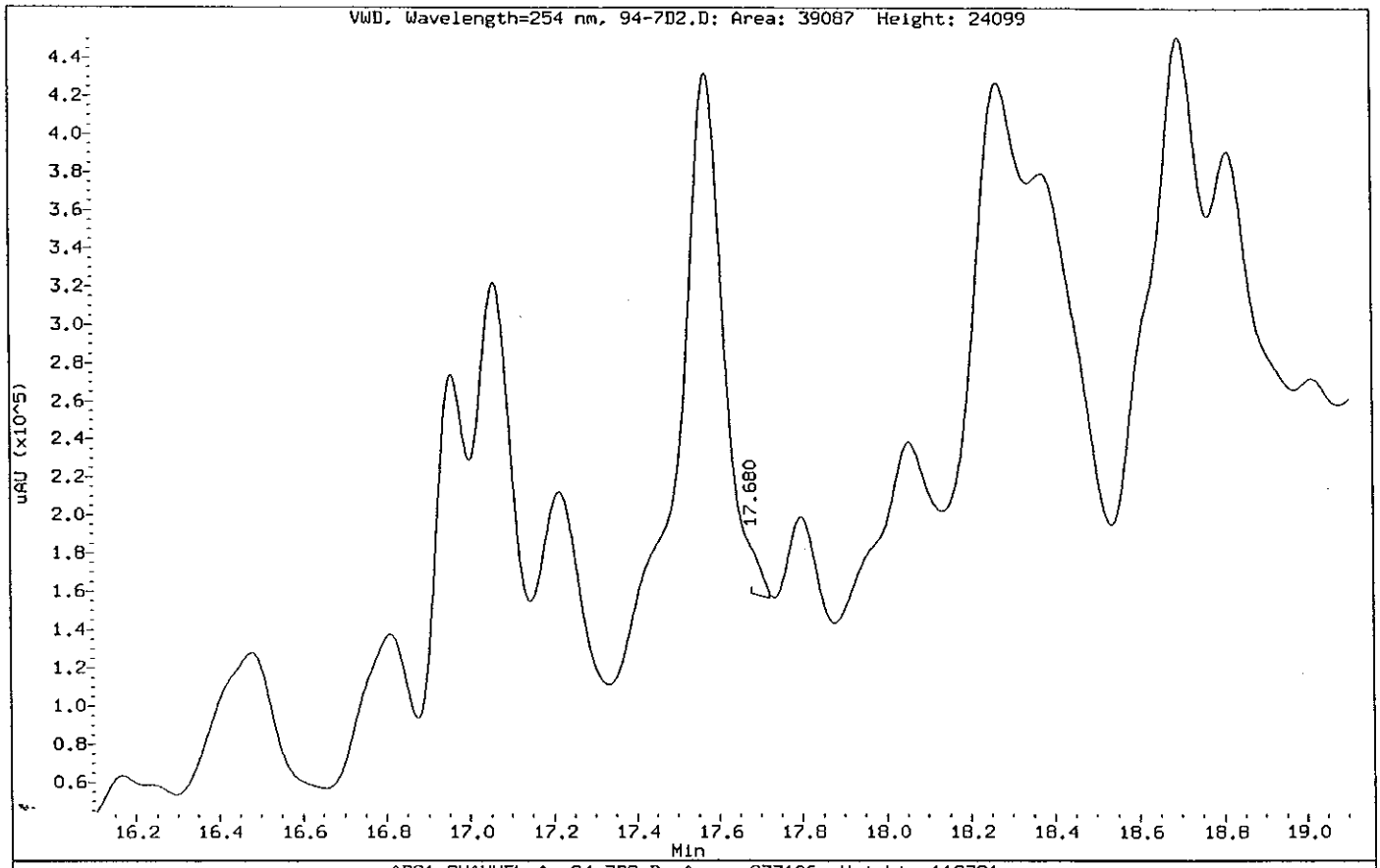
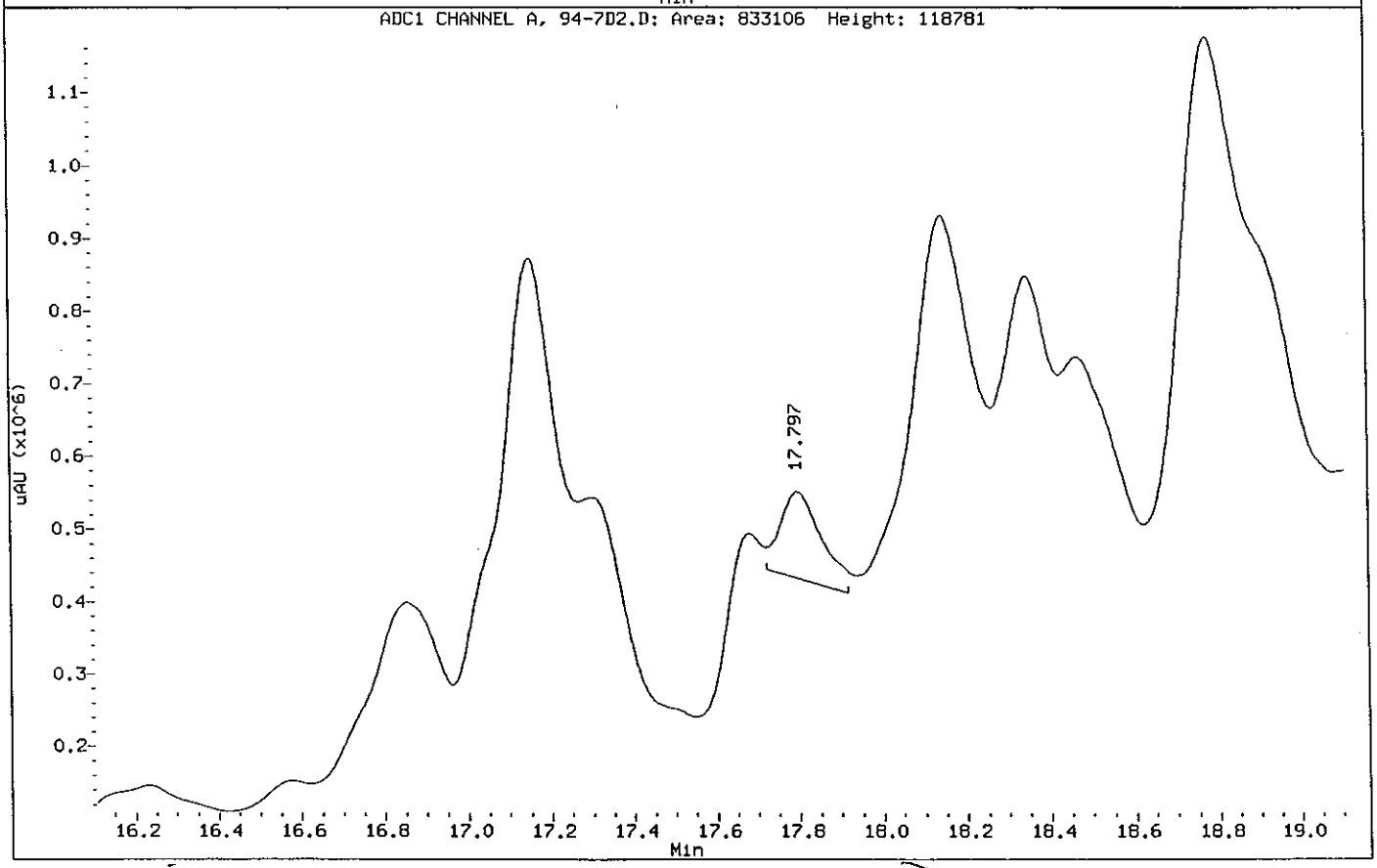
Instrument: slc02.i
Client Sample ID: 062B1015101801DL

Compound: Pyrene
CAS Number: 129-00-0





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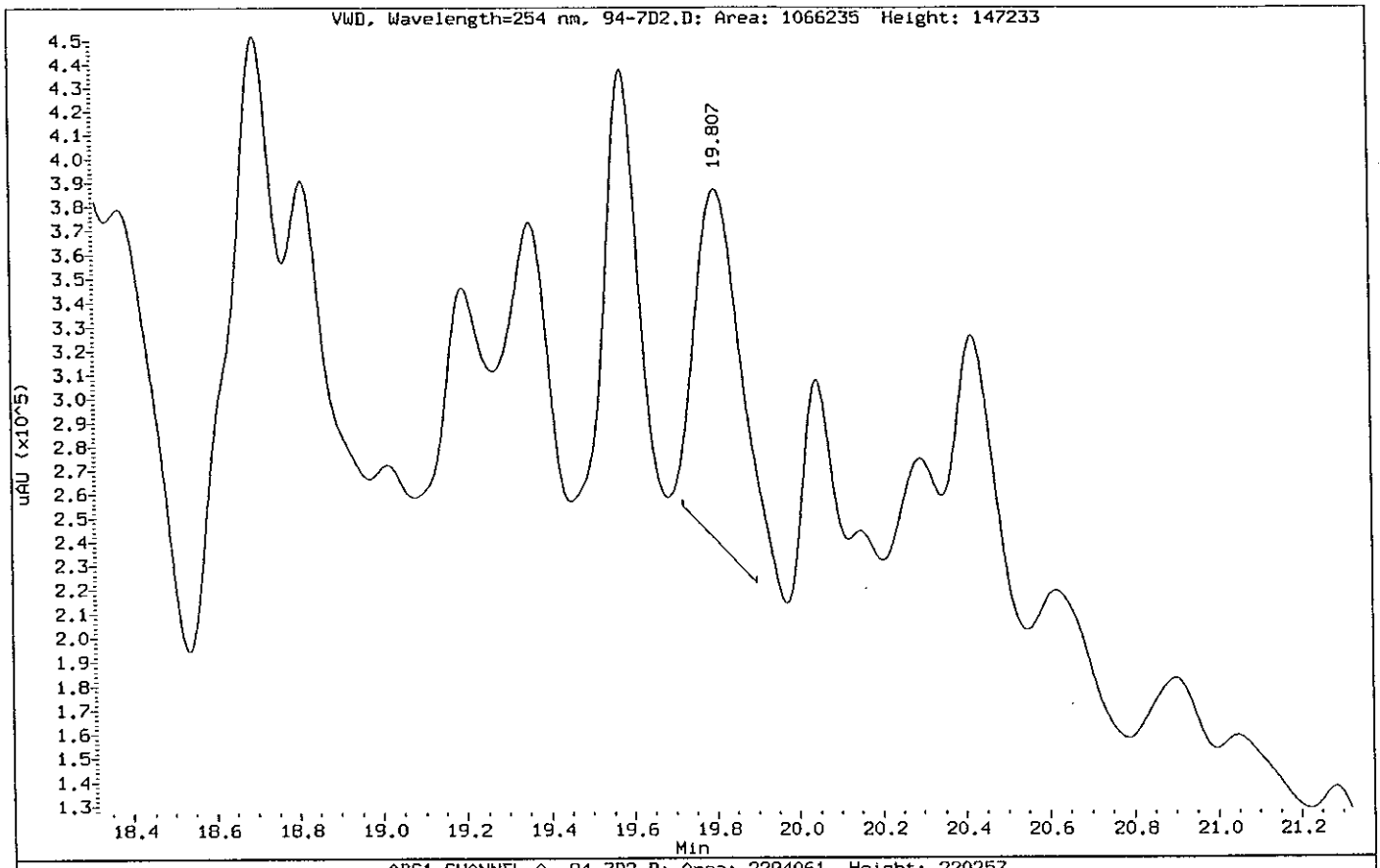
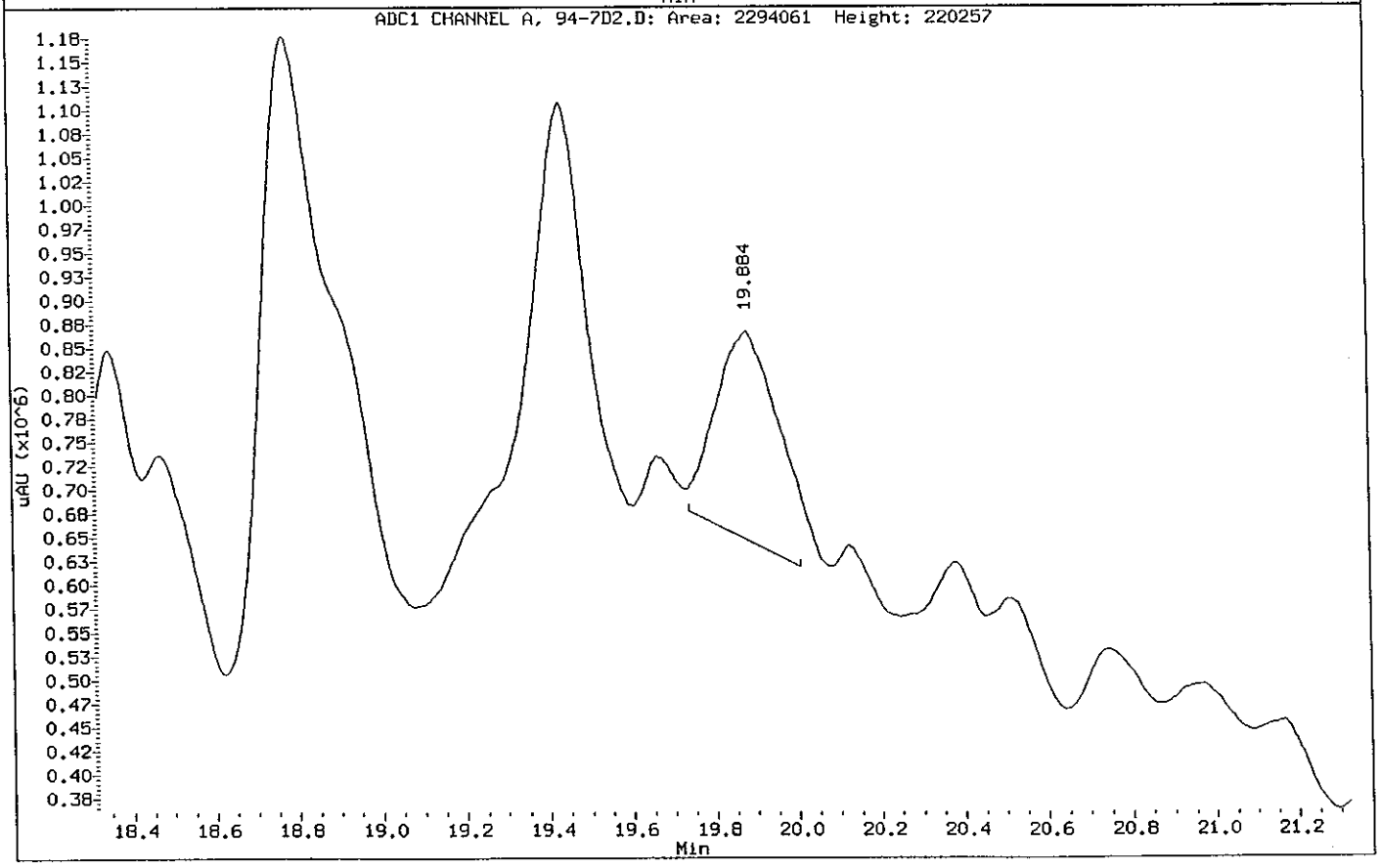
Injection Date: 29-OCT-2001 14:10
Instrument: slc02.i
Client Sample ID: 062B1015101801DL

Compound: Chrysene
CAS Number: 218-01-9





PEL Laboratories

Data file : \\SVHPLC\ee\chem\slc02.i\L21028R1.b\CCV4.D
Lab Smp Id: 15STD3206 Client Smp ID: 15STD3206
Inj Date : 29-OCT-2001 14:55
Operator : rood Inst ID: slc02.i
Smp Info : 15STD3206
Misc Info :
Comment :
Method : \\SVHPLC\ee\chem\slc02.i\L21028R1.b\8310S.m
Meth Date : 02-Nov-2001 08:36 jdonnelly Quant Type: ISTD
Cal Date : 28-OCT-2001 20:26 Cal File: PT2UGML.D
Als bottle: 21 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.04 Sample Matrix: SOIL
Processing Host: SVHPLC

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

					AMOUNTS CAL-AMT	AMOUNTS ON-COL		
RT	EXP RT	REL RT	SIGNAL	RESPONSE	(ug/ml)	(ug/ml)	TARGET RANGE	RATIO
* 1 Carbazole (ISTD)						CAS #: 86-74-8		
10.976	10.610	(1.000)	VWD1A	237648			80.00- 120.00	100.00(M)
11.066	10.610	(1.008)	ADC1A	1947239	10.0000		652.03- 978.05	819.38
2 Naphthalene						CAS #: 91-20-3		
12.050	11.770	(1.098)	VWD1A	81539	15.0000	14.8	80.00- 120.00	100.00
12.139	11.770	(1.106)	ADC1A	91495	15.0000	15.3	82.40- 123.60	112.21
3 Acenaphthylene						CAS #: 208-96-8		
13.246	13.013	(1.207)	VWD1A	57613	15.0000	14.2		
4 1-Methyl naphthalene						CAS #: 90-12-0		
13.850	13.633	(1.262)	VWD1A	47529	15.0000	14.2	80.00- 120.00	100.00(M)
13.939	13.633	(1.270)	ADC1A	183827	15.0000	14.9	296.60- 444.90	386.77

					AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
RT	EXP RT	REL RT	SIGNAL	RESPONSE				
5 2-Methyl naphthalene							CAS #: 91-57-6	
14.176	13.973	(1.292)	VWD1A	67239	15.0000	14.2	80.00- 120.00	100.00(M)
14.266	13.973	(1.300)	ADC1A	155921	15.0000	14.9	191.55- 287.32	231.89
6 Acenaphthene							CAS #: 83-32-9	
14.503	14.310	(1.321)	VWD1A	31176	15.0000	14.6	80.00- 120.00	100.00
14.593	14.310	(1.329)	ADC1A	387741	15.0000	15.8	964.12-1446.17	1243.72
7 Fluorene							CAS #: 86-73-7	
14.860	14.680	(1.354)	VWD1A	373552	15.0000	15.1	80.00- 120.00	100.00
14.951	14.680	(1.362)	ADC1A	43678	15.0000	14.6	9.06- 13.59	11.69
8 Phenanthrene							CAS #: 85-01-8	
15.663	15.500	(1.427)	VWD1A	1041121	15.0000	15.2	80.00- 120.00	100.00
15.754	15.500	(1.435)	ADC1A	1022373	15.0000	15.7	78.58- 117.87	98.20
9 Anthracene							CAS #: 120-12-7	
16.370	16.223	(1.491)	VWD1A	2244613			80.00- 120.00	100.00(M)
16.461	16.223	(1.500)	ADC1A	139849	15.0000	14.1	5.00- 7.50	6.23
10 Fluoranthene							CAS #: 206-44-0	
17.200	17.066	(1.567)	VWD1A	246773	15.0000	15.0	80.00- 120.00	100.00
17.166	17.066	(1.564)	ADC1A	49			6.36- 9.54	0.02
11 Pyrene							CAS #: 129-00-0	
17.730	17.606	(1.615)	VWD1A	195269	15.0000	15.5	80.00- 120.00	100.00(M)
17.828	17.606	(1.624)	ADC1A	2627394	15.0000	15.6	930.64-1395.96	1345.53
$ 12 p-Terphenyl-d14 (SURR)							CAS #: 1718-51-0	
18.680	18.593	(1.702)	VWD1A	226465	15.0000	15.5	80.00- 120.00	100.00(M)
18.776	18.593	(1.711)	ADC1A	6163132	15.0000	15.4	2246.35-3369.53	2721.45
13 Benzo(a)Anthracene							CAS #: 56-55-3	
19.506	19.426	(1.777)	VWD1A	584004	15.0000	15.2	80.00- 120.00	100.00
19.601	19.426	(1.786)	ADC1A	6571255	15.0000	15.9	881.58-1322.37	1125.21
14 Chrysene							CAS #: 218-01-9	
19.890	19.820	(1.812)	VWD1A	812030	15.0000	14.8	80.00- 120.00	100.00
19.984	19.820	(1.821)	ADC1A	2014796	15.0000	15.4	190.14- 285.21	248.12
15 Benzo(b)Fluoranthene							CAS #: 205-99-2	
21.293	21.253	(1.940)	VWD1A	661084	15.0000	15.6	80.00- 120.00	100.00
21.393	21.253	(1.949)	ADC1A	173155	15.0000	15.6	20.85- 31.28	26.19
16 Benzo(k)Fluoranthene							CAS #: 207-08-9	
21.910	21.883	(1.996)	VWD1A	491365	15.0000	15.1	80.00- 120.00	100.00

RT	EXP RT	REL RT	SIGNAL	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO
16 Benzo(k)Fluoranthene (continued)								
22.008	21.883	(2.005)	ADC1A	329880	15.0000	15.5	52.76- 79.15	67.14
17 Benzo(a)pyrene						CAS #: 50-32-8		
22.493	22.476	(2.049)	VWD1A	579155	15.0000	15.3	80.00- 120.00	100.00
22.593	22.476	(2.058)	ADC1A	1023398	15.0000	16.2	138.13- 207.19	176.71
18 Dibenz(ah)Anthracene						CAS #: 53-70-3		
23.480	23.493	(2.139)	VWD1A	130692	15.0000	15.5	80.00- 120.00	100.00(M)
23.579	23.493	(2.148)	ADC1A	1560066	15.0000	15.5	949.04-1423.56	1193.70
19 Benzo(ghi)Perylene						CAS #: 191-24-2		
24.213	24.226	(2.206)	VWD1A	216812	15.0000	15.1	80.00- 120.00	100.00
24.311	24.226	(2.215)	ADC1A	462424	15.0000	16.0	155.32- 232.98	213.28
20 Indeno(123cd)Pyrene						CAS #: 193-39-5		
24.676	24.703	(2.248)	VWD1A	567604	15.0000	15.7	80.00- 120.00	100.00
24.968	24.703	(2.275)	ADC1A	57966			0.00- 0.00	10.21

QC Flag Legend

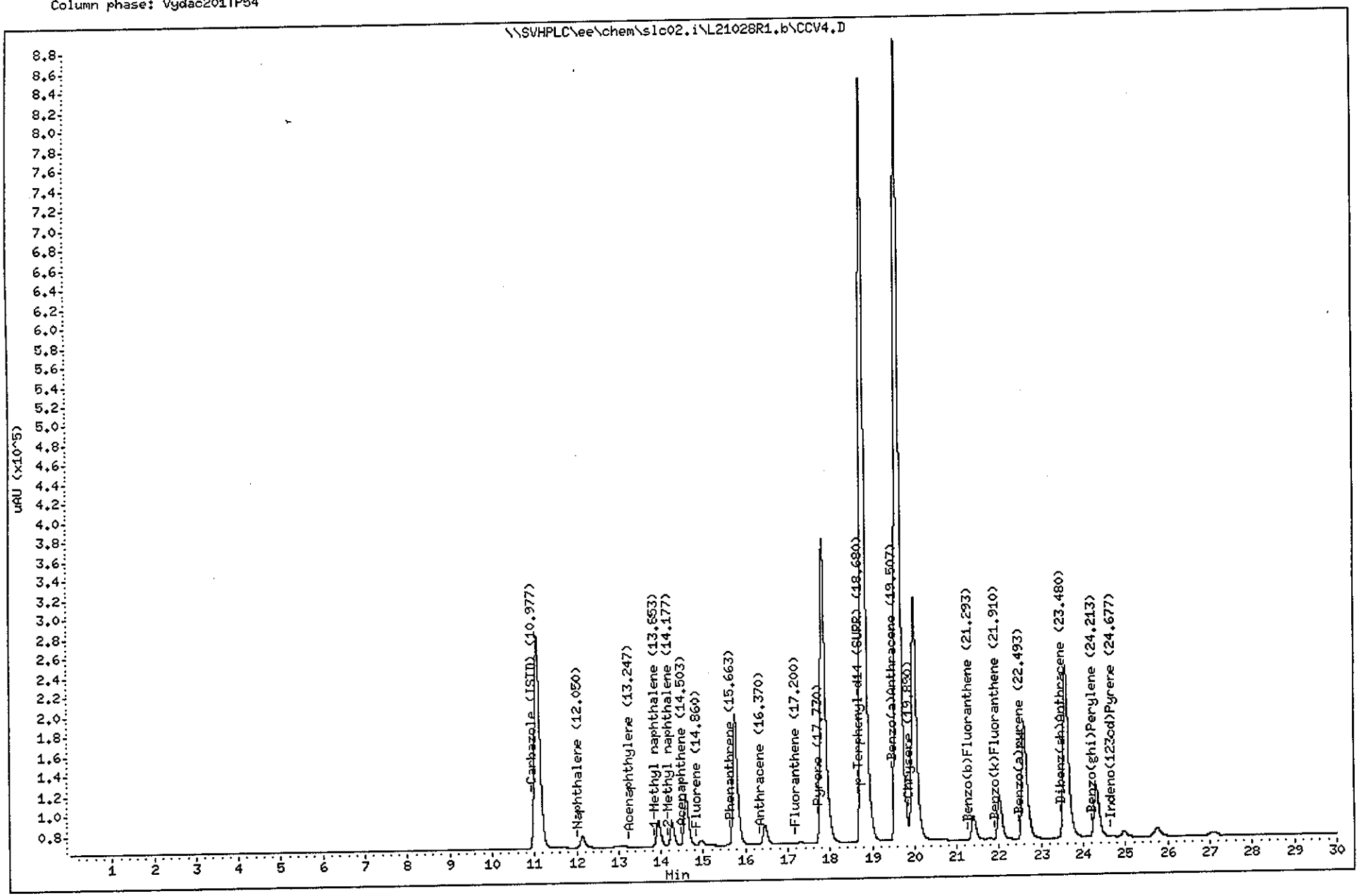
M - Compound response manually integrated.

Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\CCV4.D
Date : 29-OCT-2001 14:55
Client ID: 15STD3206
Sample Info: 15STD3206

Instrument: slc02.i

Operator: rood
Column diameter: 4.60

Column phase: Vydac201TP54



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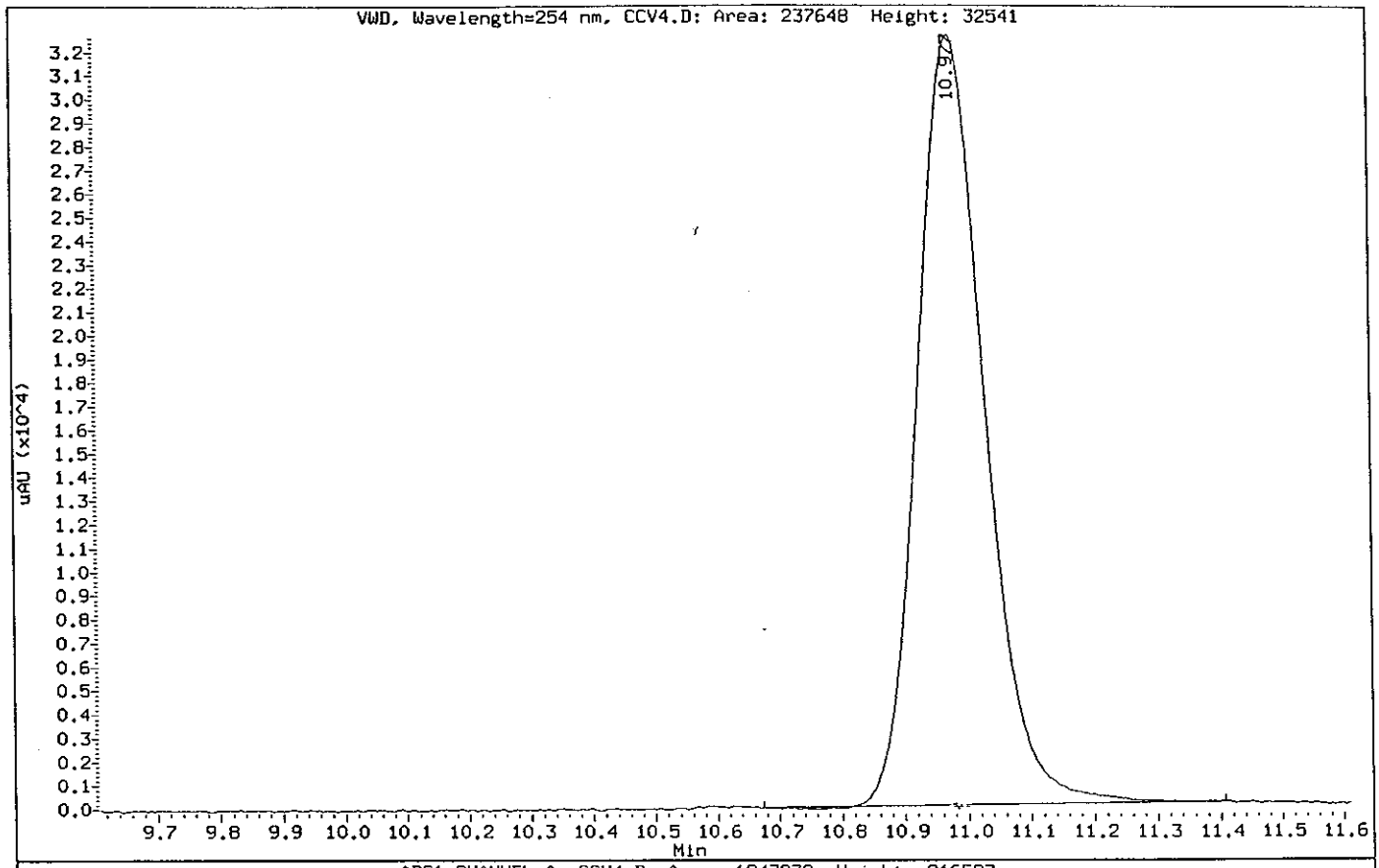
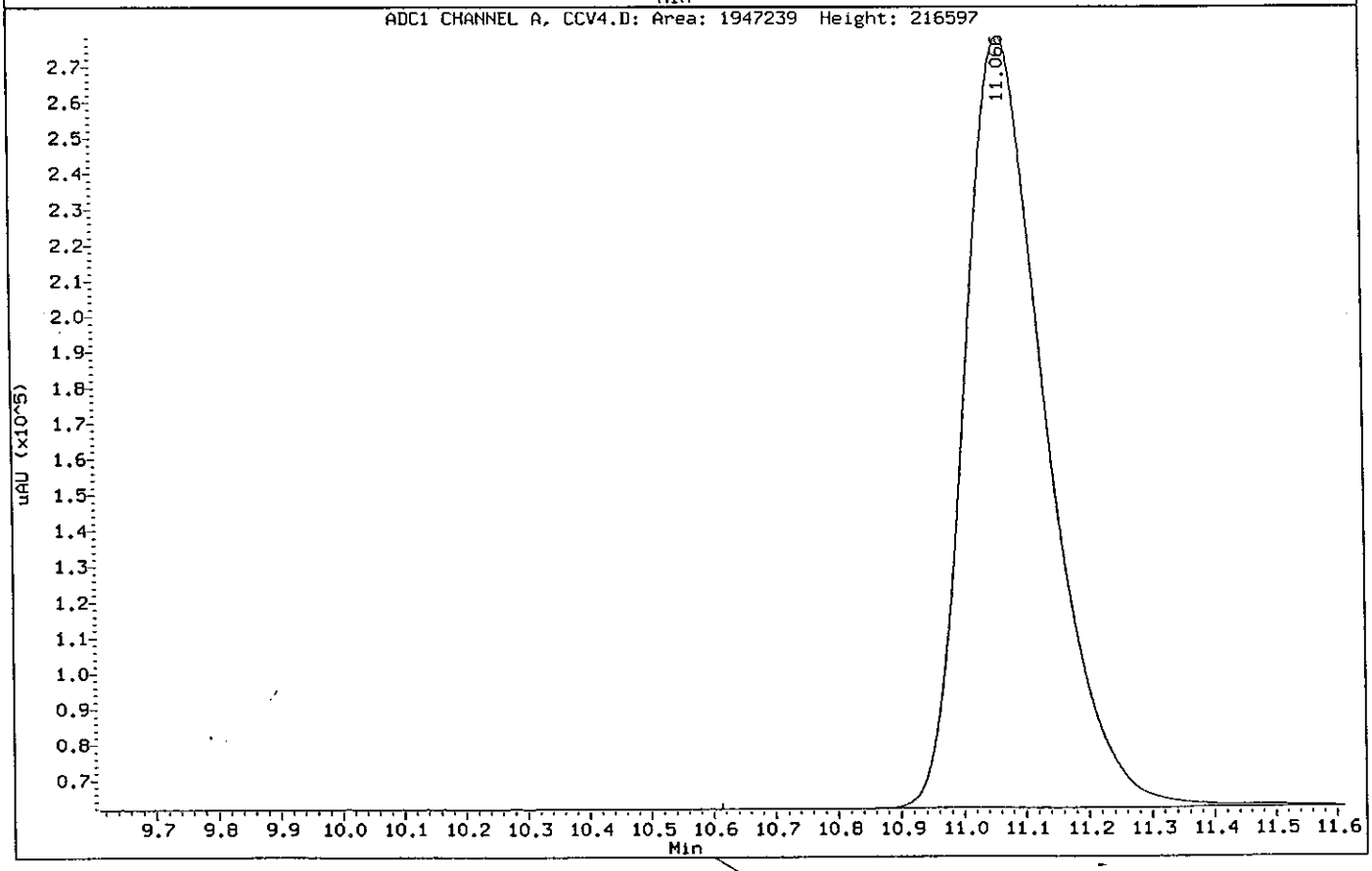
Injection Date: 29-OCT-2001 14:55
Instrument: slc02.i
Client Sample ID: 15STD3206

Compound: Carbazole (ISTD)
CAS Number: 86-74-8





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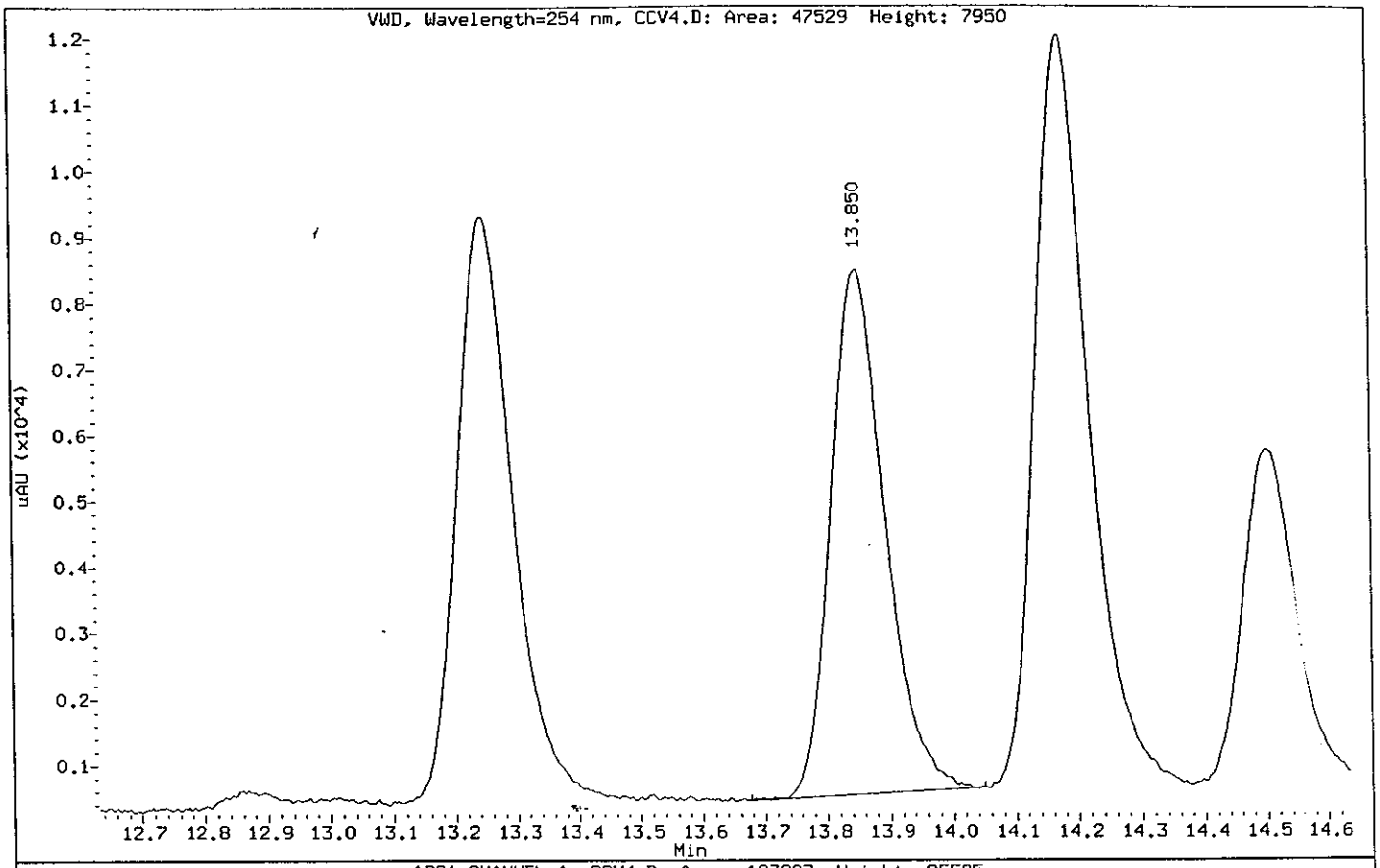
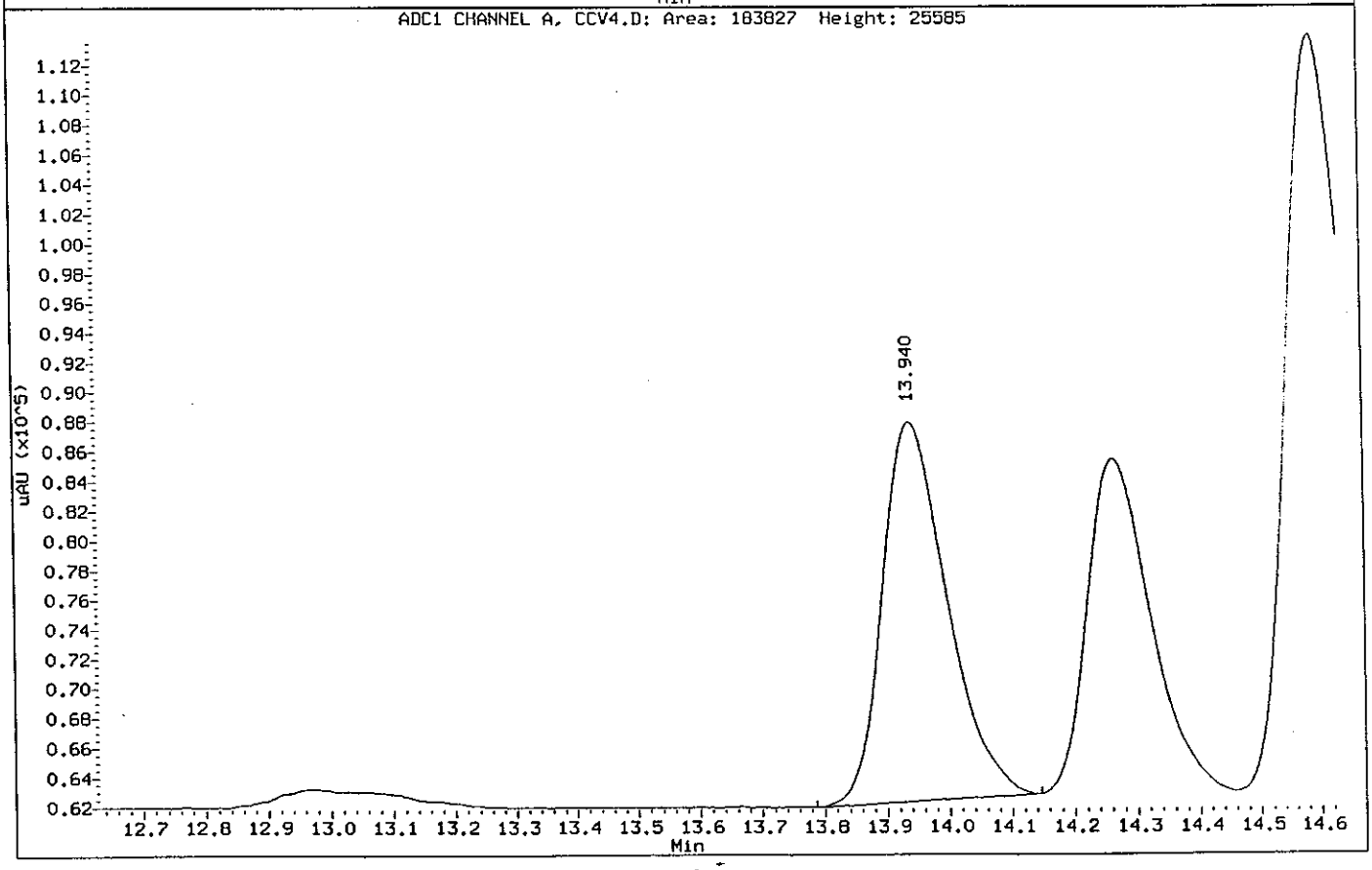
Injection Date: 29-OCT-2001 14:55
Instrument: slc02.i
Client Sample ID: 15STD3206

Compound: 1-Methyl naphthalene
CAS Number: 90-12-0





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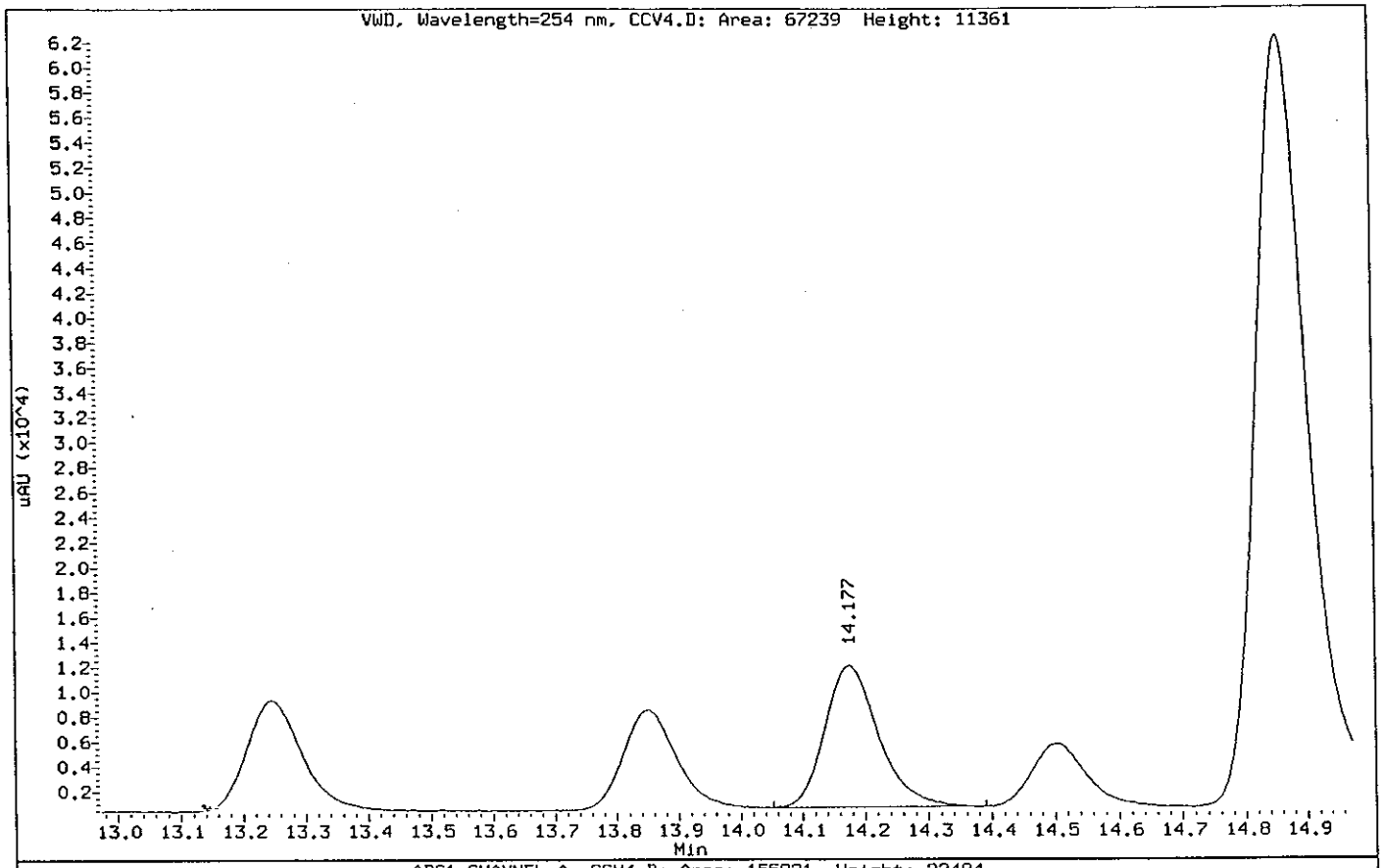
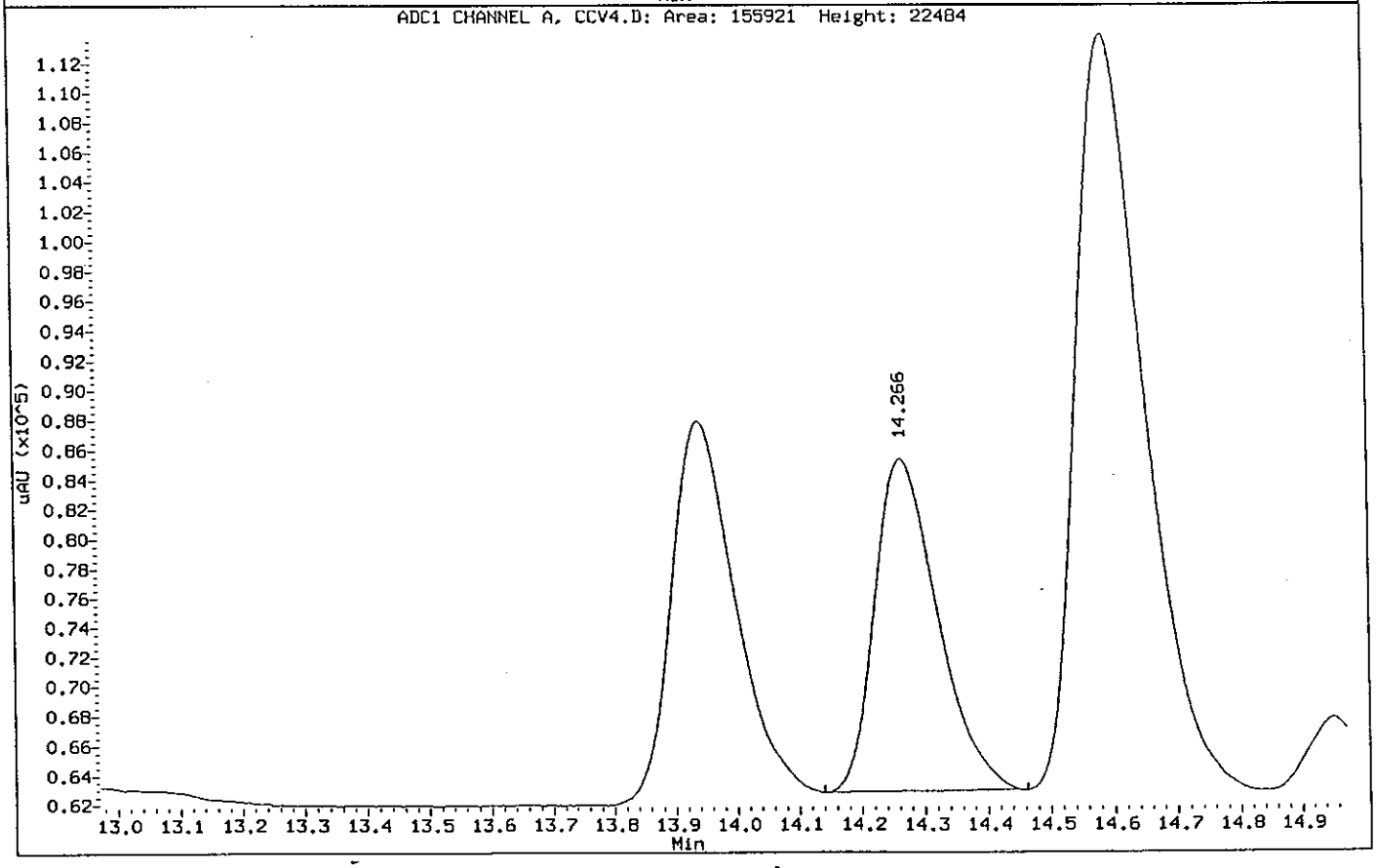
Instrument: slc02.i
Client Sample ID: 15STD3206

Compound: 2-Methyl naphthalene
CAS Number: 91-57-6





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Instrument: sic02.i
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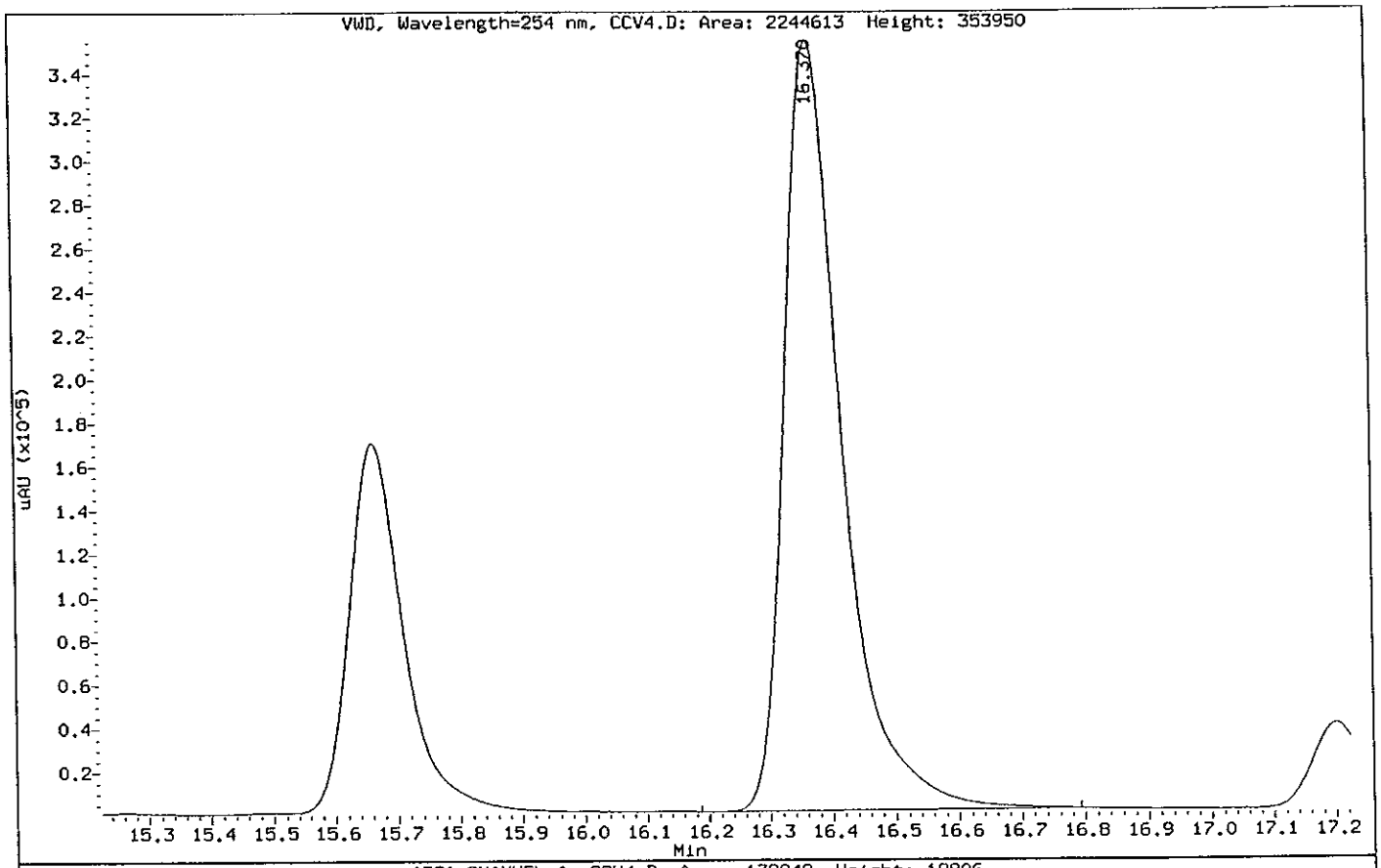
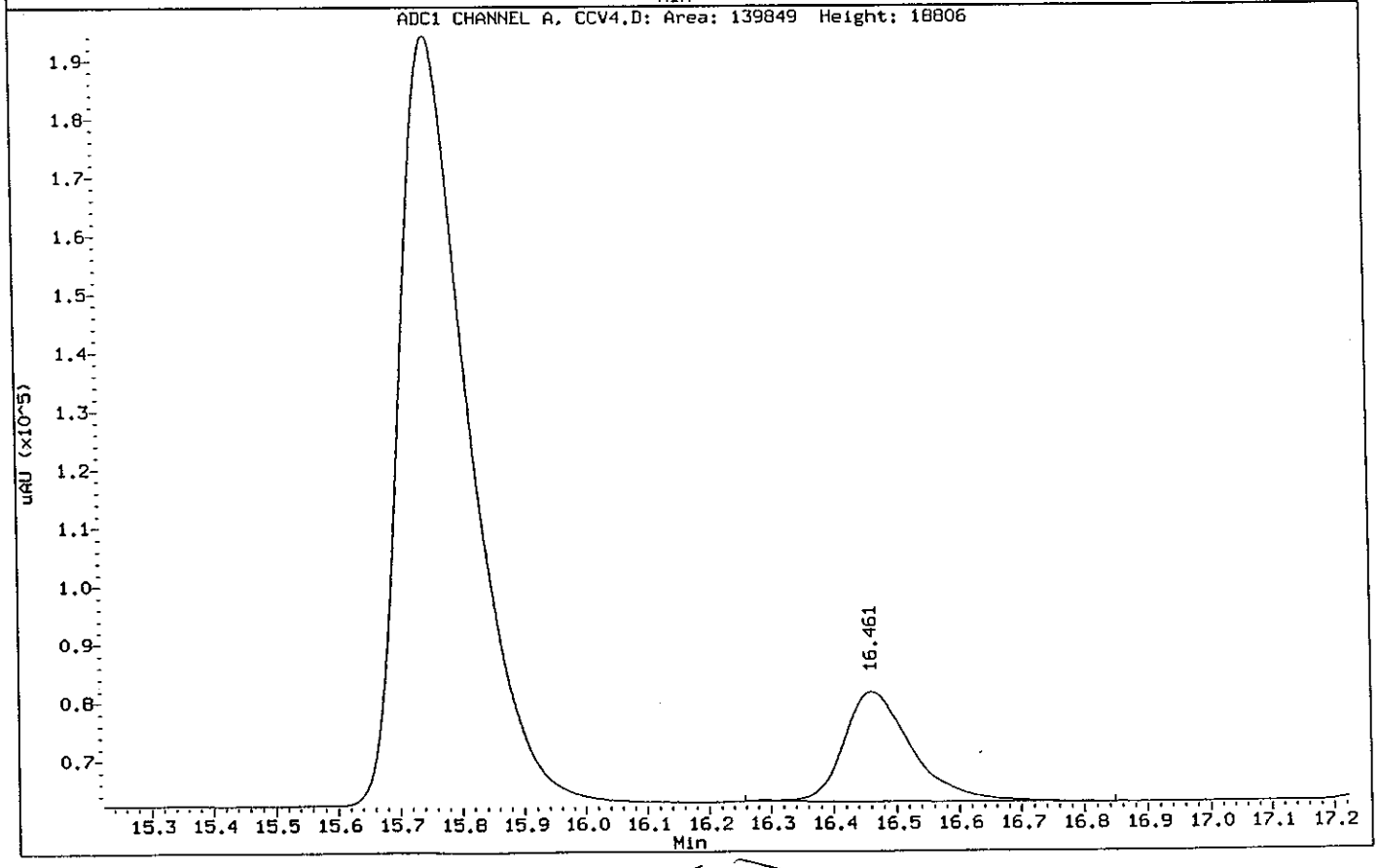
Compound: Anthracene
CAS Number: 120-12-7





TMD

Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\CCV4.D
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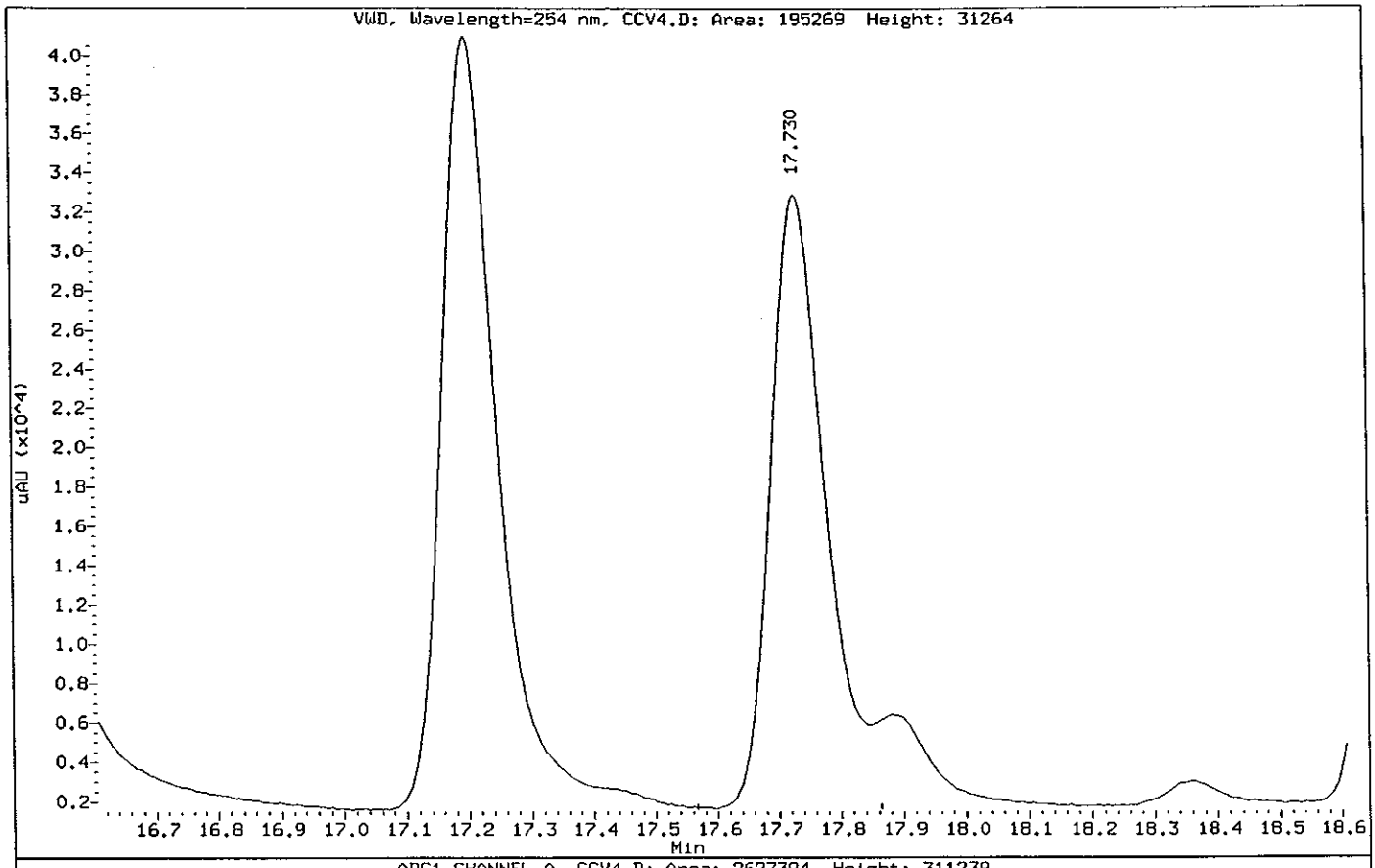
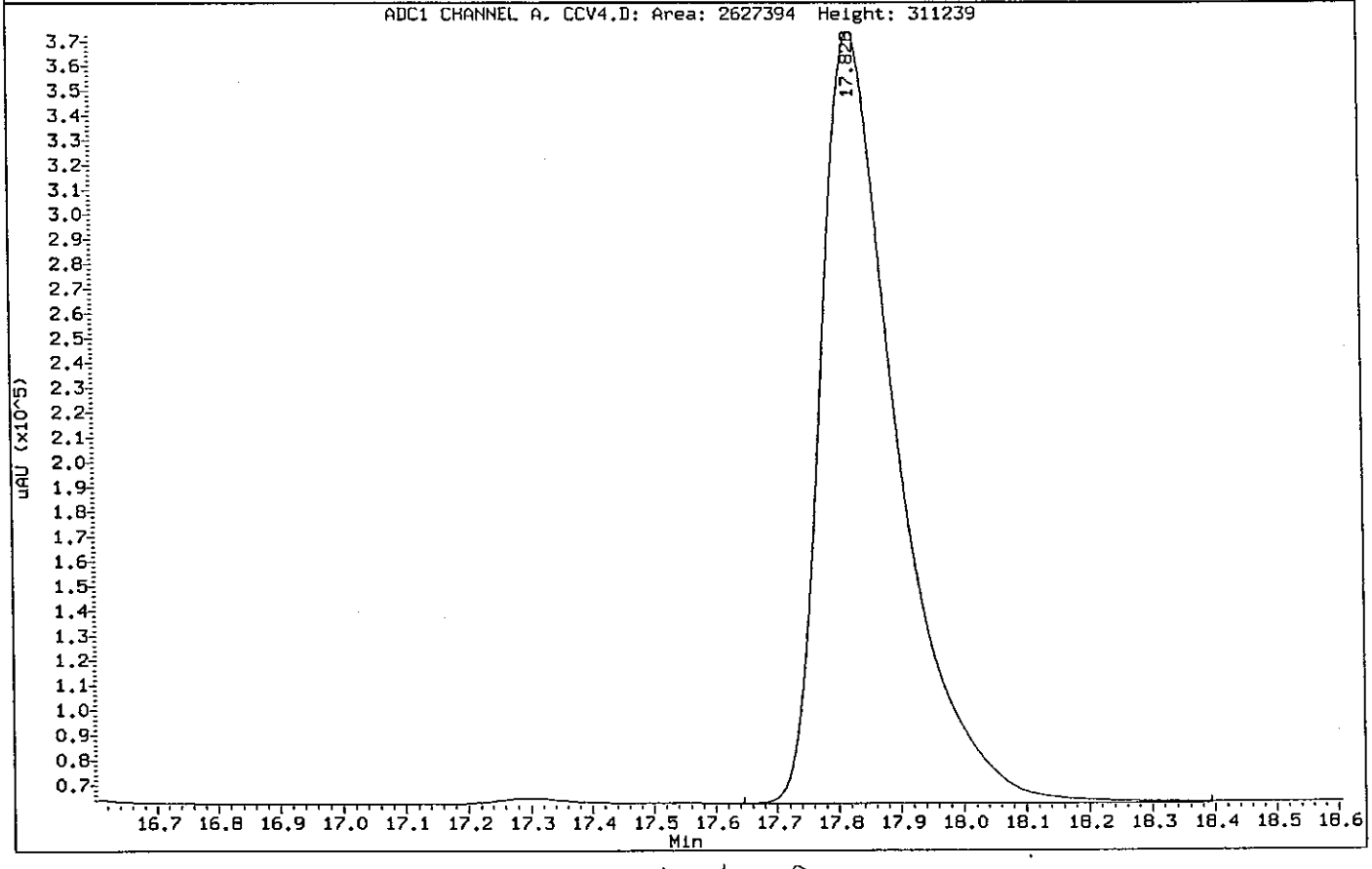
Instrument: slc02.i
Client Sample ID: 15STD3206

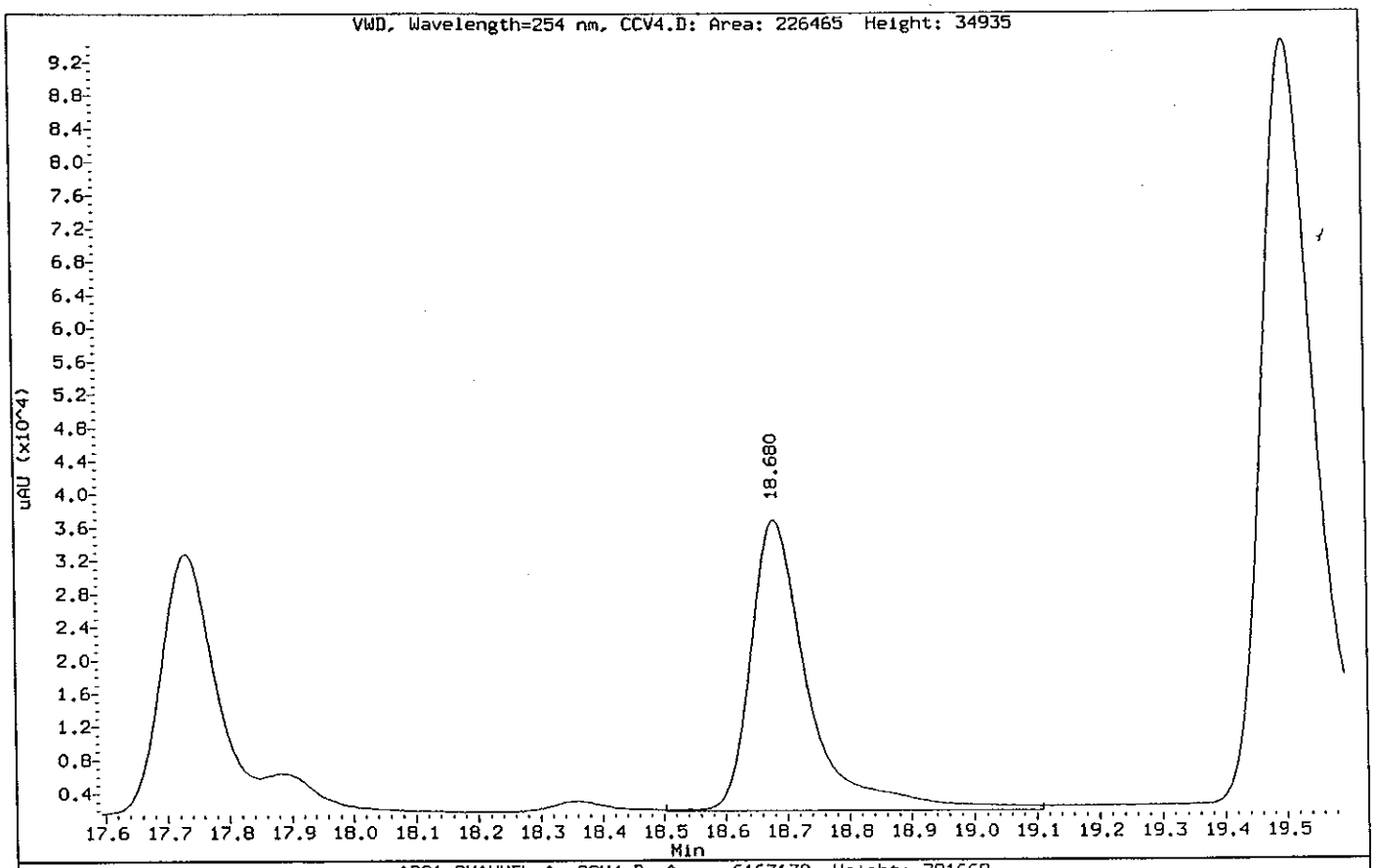
Compound: Pyrene
CAS Number: 129-00-0

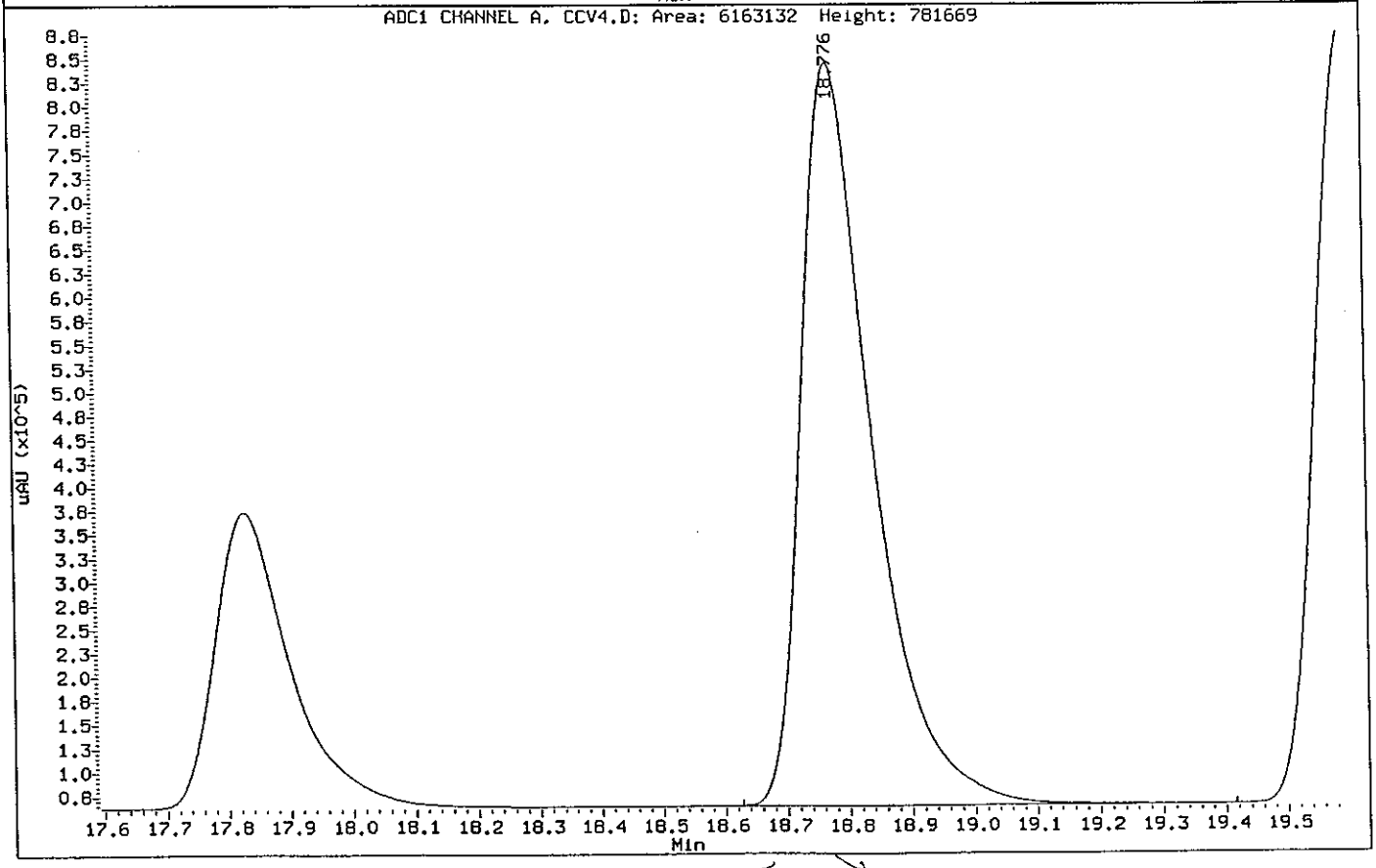




Data File: \\SVHPLC\ee\chem\slc02.i\L2102BR1.b\CCV4.D
Injection Date: 29-OCT-2001 14:55
Instrument: slc02.i
Client Sample ID: 15STD3206

Compound: p-Terphenyl-d14 (SURR)
CAS Number: 1718-51-0





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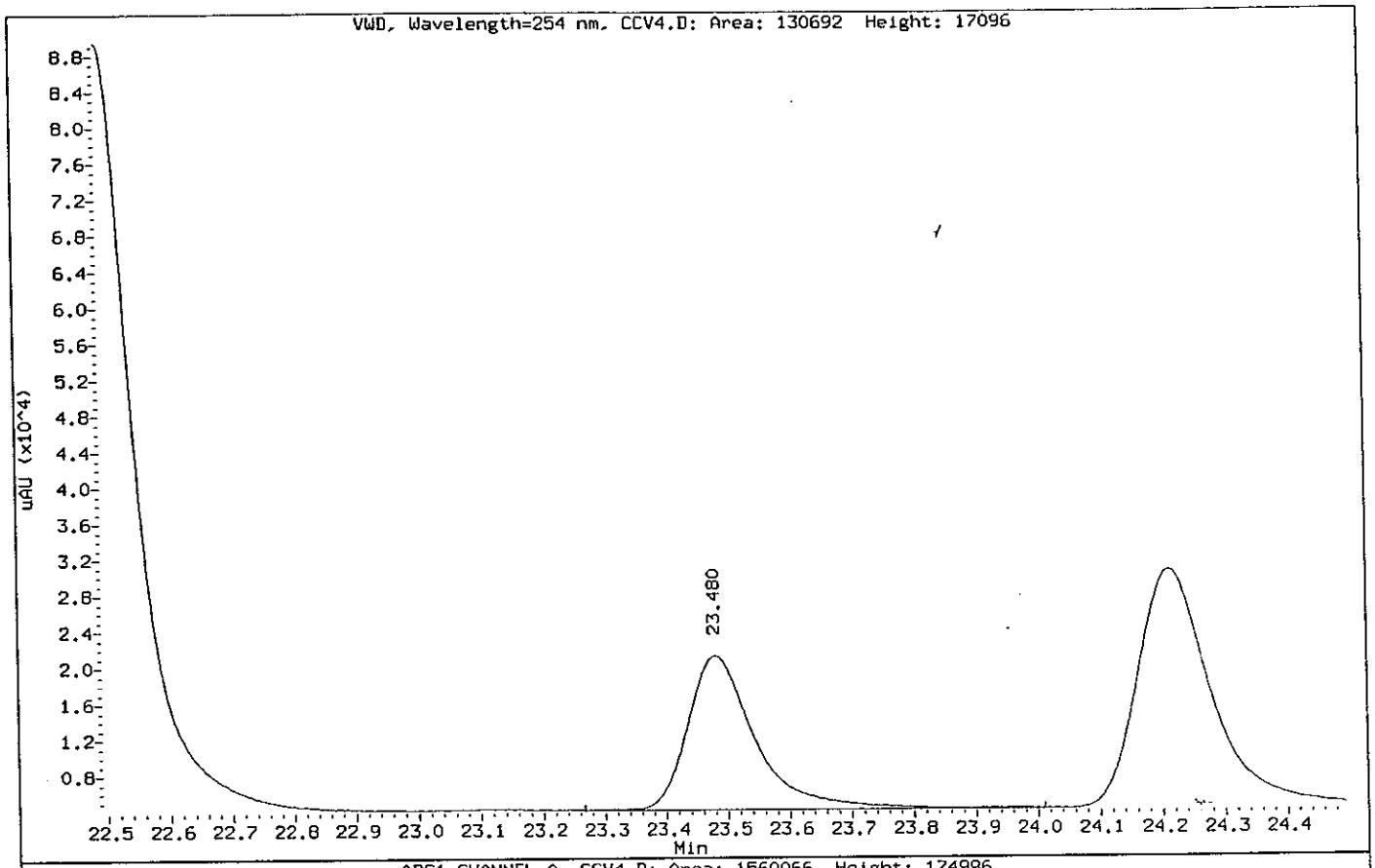
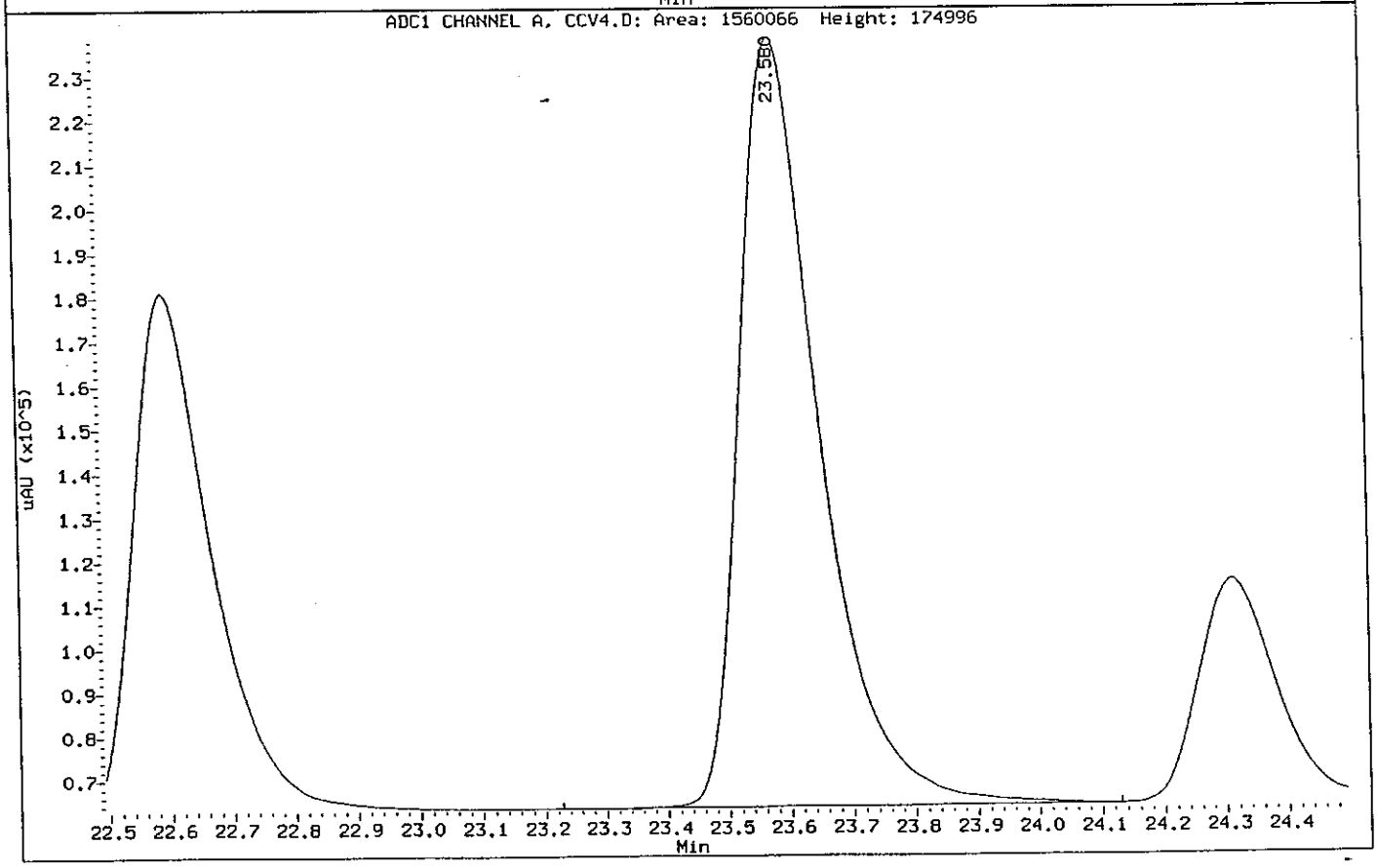
Injection Date: 29-OCT-2001 14:55
Instrument: slc02.i
Client Sample ID: 15STD3206

Compound: Dibenz(ah)Anthracene
CAS Number: 53-70-3





PEL Laboratories

Data file : \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-8D2.D
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Inj Date : 29-OCT-2001 16:33
Operator : rood Inst ID: slc02.i
Smp Info : 211009408
Misc Info :
Comment :
Method : \\SVHPLC\ee\chem\slc02.i\L21028R1.b\8310S.m
Meth Date : 02-Nov-2001 08:36 jdonnelly Quant Type: ISTD
Cal Date : 28-OCT-2001 20:26 Cal File: PT2UGML.D
Als bottle: 13 QC Sample: MS
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: navy50.sub
Target Version: 4.04 Sample Matrix: SOIL
Processing Host: SVHPLC

Concentration Formula: Amt * DF * 1/((Ws*(1-(M/100)))/1000)*Vf

Name	Value	Description
DF	2.000	Dilution Factor
Ws	32.800	Extracted weight
M	11.009	% Moisture
Vf	1.000	Final Volume

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	REL RT	SIGNAL	RESPONSE	(ug/ml)	(ug/kg)	TARGET RANGE	RATIO
* 1 Carbazole (ISTD)							CAS #: 86-74-8	
11.023	10.610	(1.000)	VWD1A	559840			80.00- 120.00	100.00(M)
11.102	10.610	(1.007)	ADC1A	2228266	10.0000		652.03- 978.05	398.02
2 Naphthalene							CAS #: 91-20-3	
12.080	11.770	(1.096)	VWD1A	34120	5.39445	370	80.00- 120.00	100.00(aMH)
12.253	11.770	(1.105)	ADC1A	82204	11.9930	822	82.40- 123.60	240.93
3 Acenaphthylene							CAS #: 208-96-8	
13.243	13.013	(1.201)	VWD1A	103171	22.1965	1520		(RM)
4 1-Methyl naphthalene							CAS #: 90-12-0	
13.870	13.633	(1.258)	VWD1A	30635	8.03128	550	80.00- 120.00	100.00(RM)
13.965	13.633	(1.267)	ADC1A	136391	9.66192	662	296.60- 444.90	445.21

RT	EXP RT	REL RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO
5 2-Methyl naphthalene						CAS #: 91-57-6		
14.203	13.973	(1.288)	VWD1A	101019	18.7049	1280	80.00- 120.00	100.00(RM)
14.297	13.973	(1.297)	ADC1A	95430	7.99308	548	191.55- 287.32	94.47
6 Acenaphthene						CAS #: 83-32-9		
14.576	14.310	(1.322)	VWD1A	13061	5.33605	366	80.00- 120.00	100.00(M)
14.617	14.310	(1.326)	ADC1A	185853	6.62460	454	964.12-1446.17	1422.96
7 Fluorene						CAS #: 86-73-7		
14.883	14.680	(1.350)	VWD1A	288567	10.2130	700	80.00- 120.00	100.00(R)
14.967	14.680	(1.358)	ADC1A	15165	4.43108	304	9.06- 13.59	5.26
8 Phenanthrene						CAS #: 85-01-8		
15.680	15.500	(1.422)	VWD1A	1386622	17.6429	1210	80.00- 120.00	100.00(R)
15.775	15.500	(1.431)	ADC1A	2933881	39.3359	2700	78.58- 117.87	211.58
10 Fluoranthene						CAS #: 206-44-0		
17.236	17.066	(1.564)	VWD1A	511776	27.2385	1870	80.00- 120.00	100.00(RM)
17.178	17.066	(1.558)	ADC1A	8933003			6.36- 9.54	1745.49
11 Pyrene						CAS #: 129-00-0		
17.683	17.606	(1.604)	VWD1A	48206	3.34298	229	80.00- 120.00	100.00(MH)
17.825	17.606	(1.617)	ADC1A	741207	3.84790	264	930.64-1395.96	1537.58
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.720	18.593	(1.698)	VWD1A	720955	43.1575	2960	80.00- 120.00	100.00(ARM)
18.797	18.593	(1.705)	ADC1A	9109917	19.9237	1360	2246.35-3369.53	1263.59
13 Benzo(a)Anthracene						CAS #: 56-55-3		
19.550	19.426	(1.774)	VWD1A	144290	3.27357	224	80.00- 120.00	100.00(MH)
19.590	19.426	(1.777)	ADC1A	1269314	2.67944	184	881.58-1322.37	879.70
14 Chrysene						CAS #: 218-01-9		
19.826	19.820	(1.799)	VWD1A	1365230	21.6790	1480	80.00- 120.00	100.00(RM)
19.912	19.820	(1.806)	ADC1A	2062393	13.7509	942	190.14- 285.21	151.07
15 Benzo(b)Fluoranthene						CAS #: 205-99-2		
21.293	21.253	(1.932)	VWD1A	357373	7.35497	504	80.00- 120.00	100.00(M)
21.393	21.253	(1.941)	ADC1A	621813	48.8768	3350	20.85- 31.28	174.00
16 Benzo(k)Fluoranthene						CAS #: 207-08-9		
21.916	21.883	(1.988)	VWD1A	197280	5.31172	364	80.00- 120.00	100.00(MH)
22.052	21.883	(2.000)	ADC1A	63720	2.62443	180	52.76- 79.15	32.30
17 Benzo(a)pyrene						CAS #: 50-32-8		
22.490	22.476	(2.040)	VWD1A	159731	3.68851	253	80.00- 120.00	100.00(M)

RT	EXP RT	REL RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO
17 Benzo(a)pyrene (continued)								
22.588	22.476	(2.049)	ADC1A	494171	6.83083	468	138.13- 207.19	309.38
18 Dibenz(ah)Anthracene						CAS #: 53-70-3		
23.493	23.493	(2.131)	VWD1A	41169	4.27908	293	80.00- 120.00	100.00(M)
23.588	23.493	(2.140)	ADC1A	427454	3.71993	255	949.04-1423.56	1038.29
19 Benzo(ghi)Perylene						CAS #: 191-24-2		
24.210	24.226	(2.196)	VWD1A	46194	2.82041	193	80.00- 120.00	100.00(M)
24.317	24.226	(2.206)	ADC1A	127927	3.85628	264	155.32- 232.98	276.93
20 Indeno(123cd)Pyrene						CAS #: 193-39-5		
24.680	24.703	(2.239)	VWD1A	133863	3.24181	222	80.00- 120.00	100.00(M)
24.730	24.703	(2.243)	ADC1A	35284			0.00- 0.00	26.36

QC Flag Legend

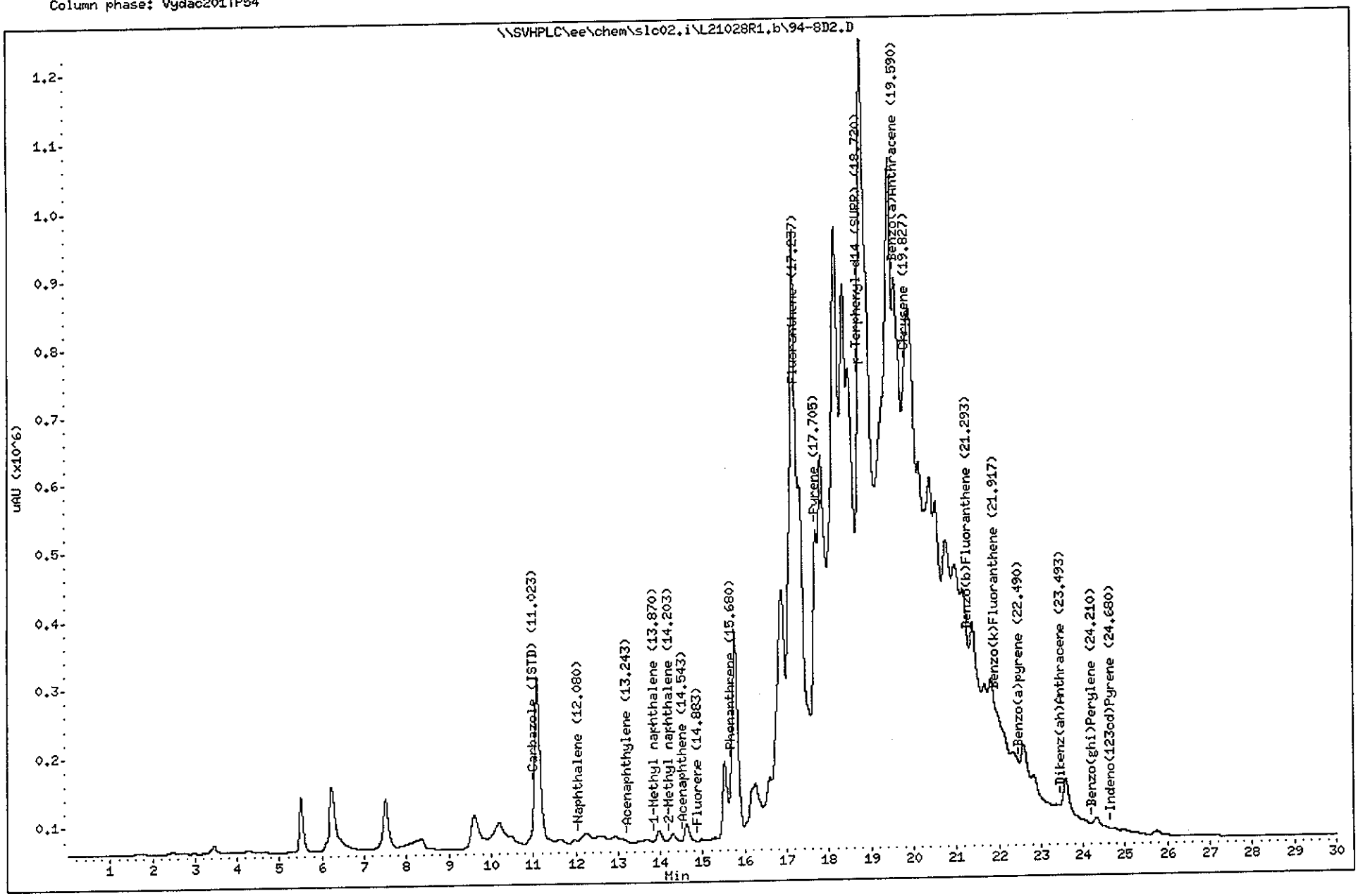
a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-8D2.D
Date : 29-OCT-2001 16:33
Client ID: 062B101S101801DLMS
Sample Info: 211009408

Instrument: slc02.i

Operator: rood
Column diameter: 4.60

Column phase: Vydac201TP54



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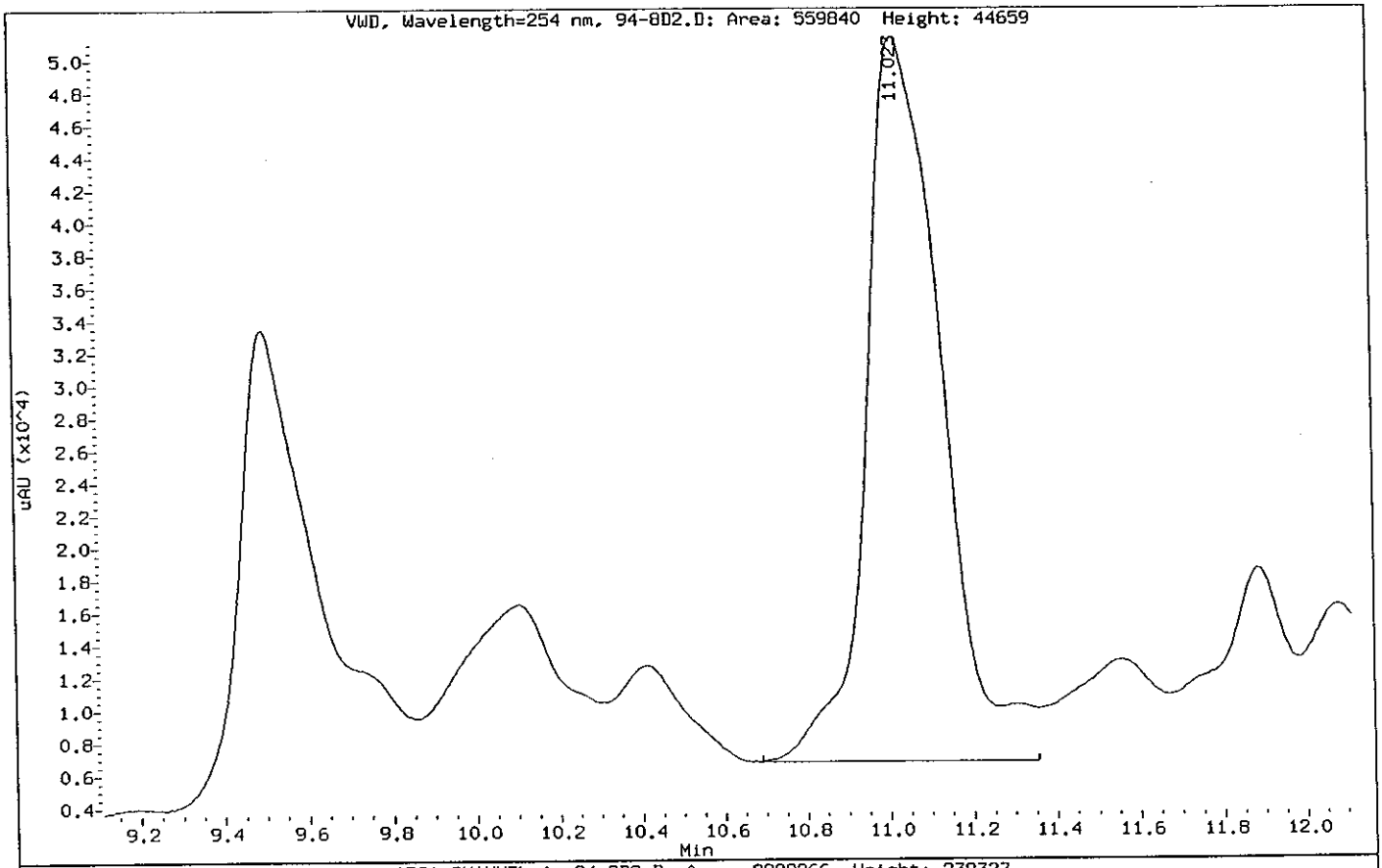
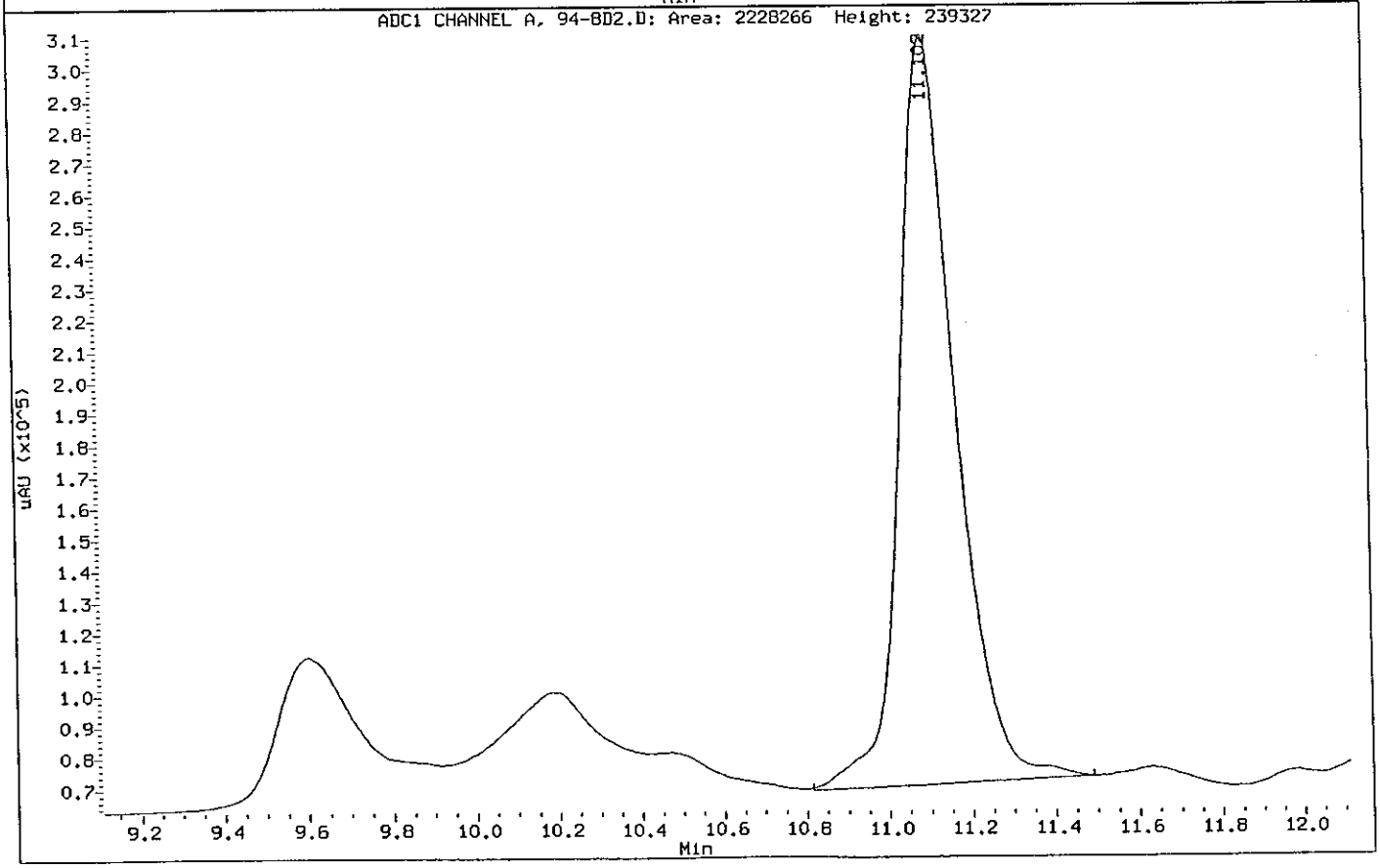
Injection Date: 29-OCT-2001 16:33
Instrument: slc02.i
Client Sample ID: 062B1015101801DLMS

Compound: Carbazole (ISTD)
CAS Number: 86-74-8





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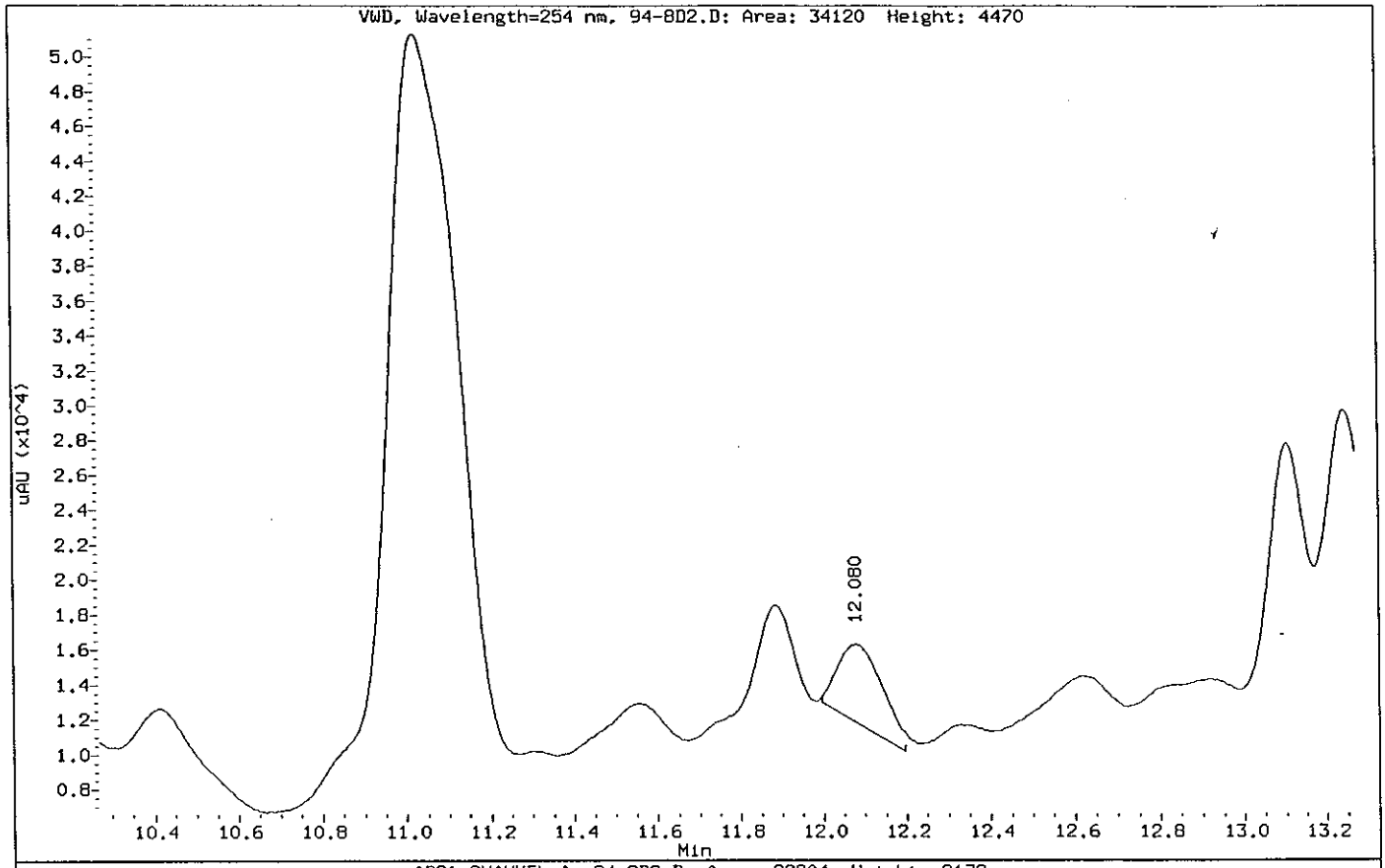
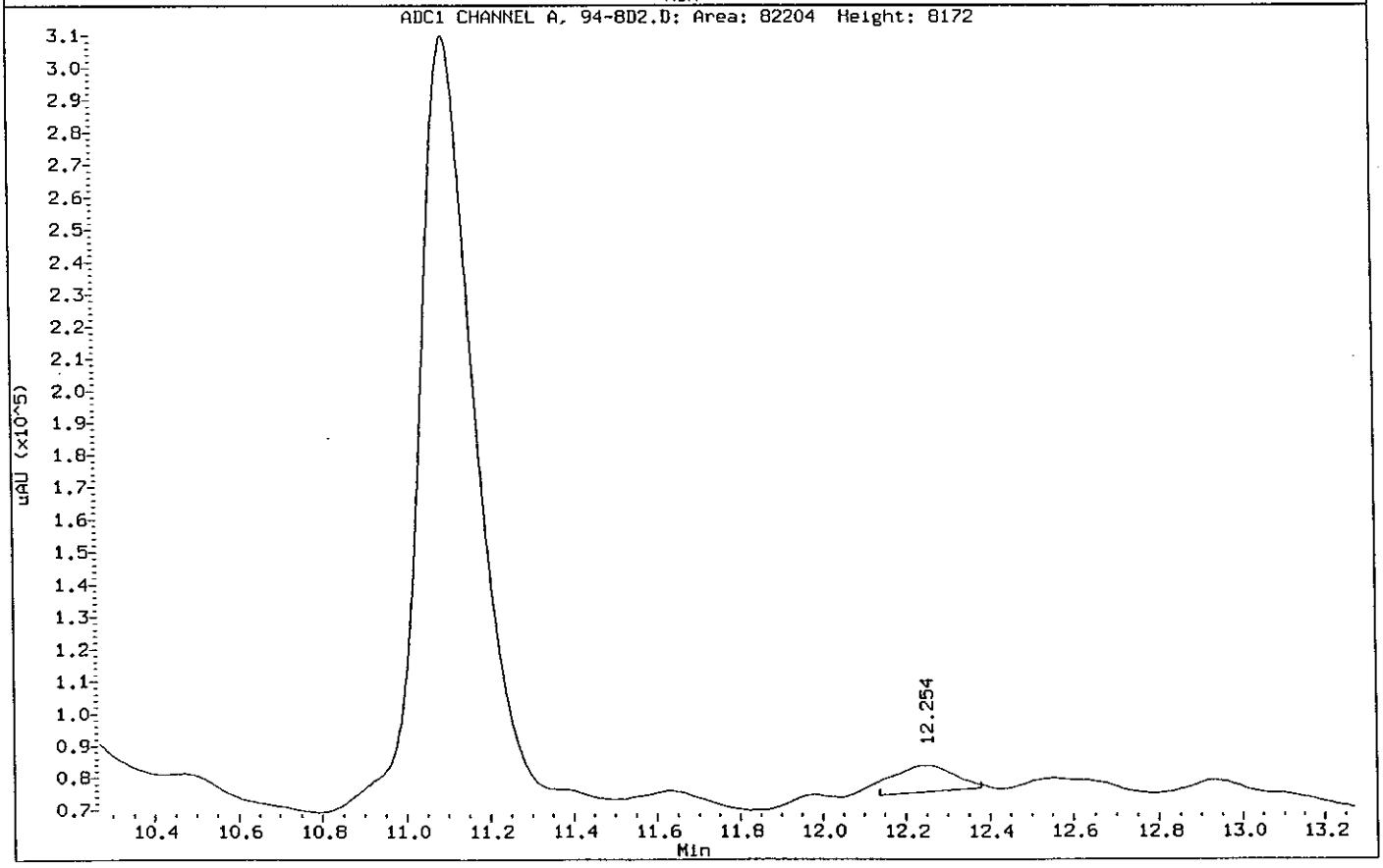
Injection Date: 29-OCT-2001 16:33
Instrument: slc02.i
Client Sample ID: 062B101S101801DLMS

Compound: Naphthalene
CAS Number: 91-20-3





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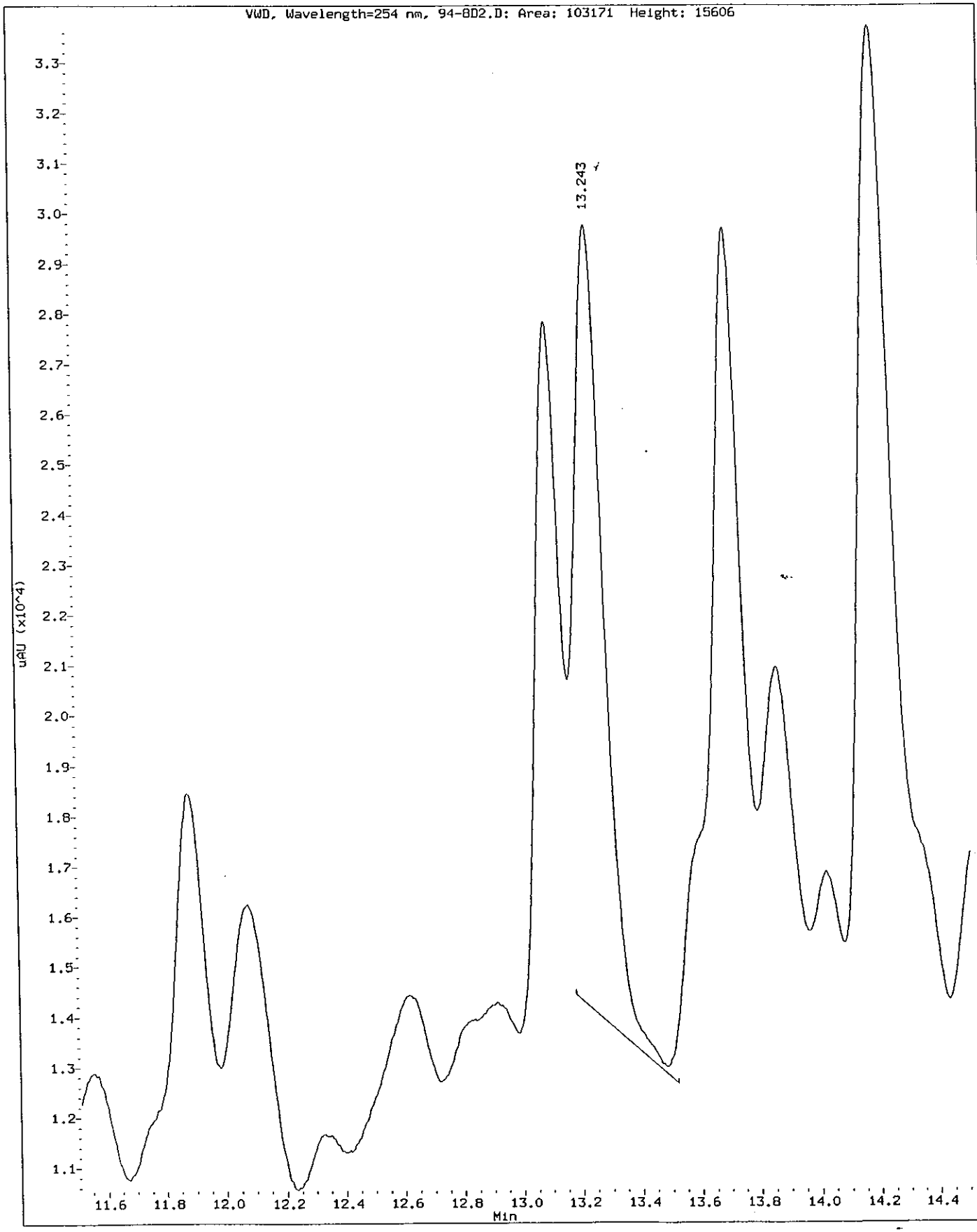
Injection Date: 29-OCT-2001 16:33
Instrument: slc02.i
Client Sample ID: 062B1015101801DLMS

Compound: Acenaphthylene
CAS Number: 208-96-8



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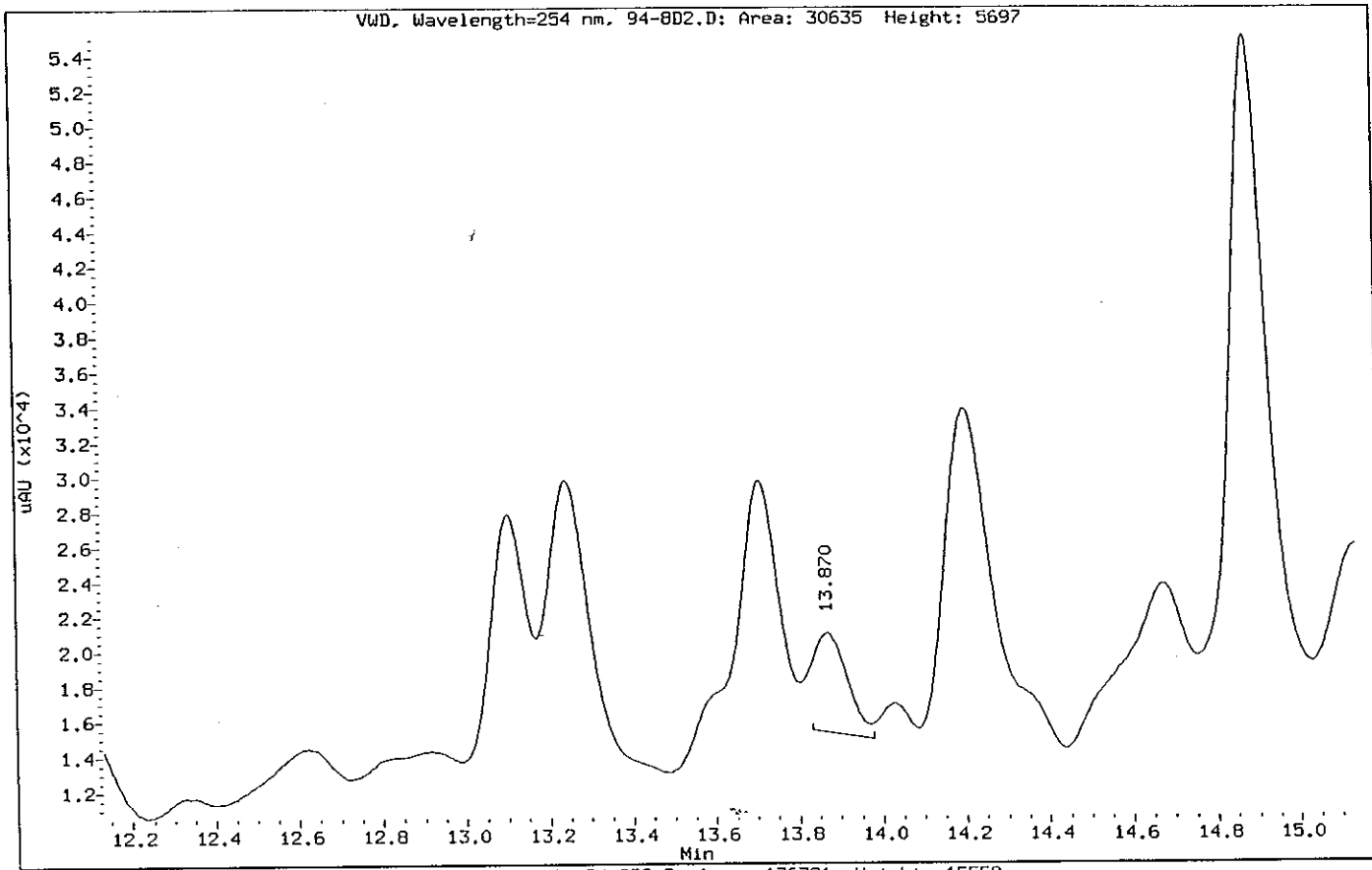
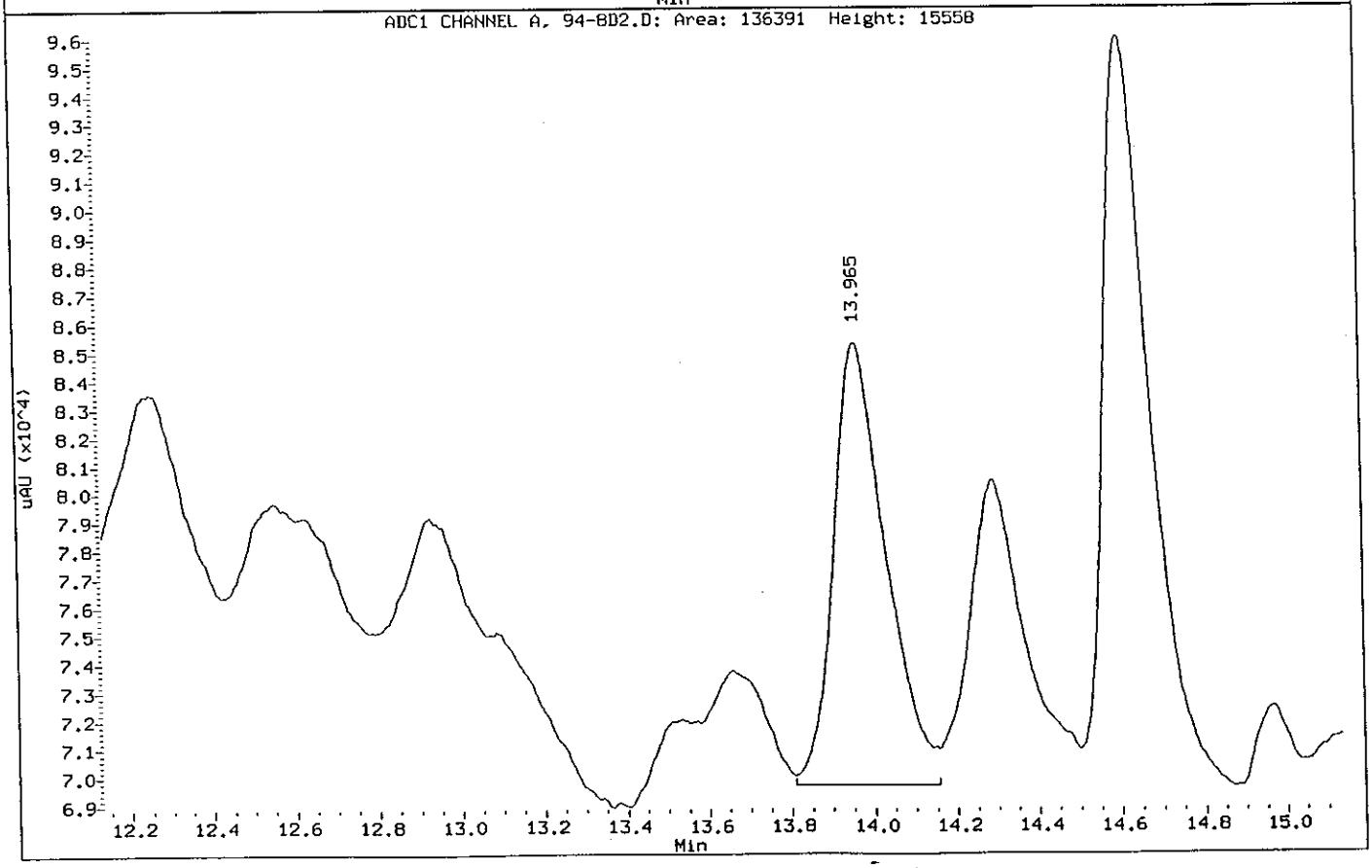
Injection Date: 29-OCT-2001 16:33
Instrument: slc02.i
Client Sample ID: 062B101S101801DLMS

Compound: 1-Methyl naphthalene
CAS Number: 90-12-0





5-D

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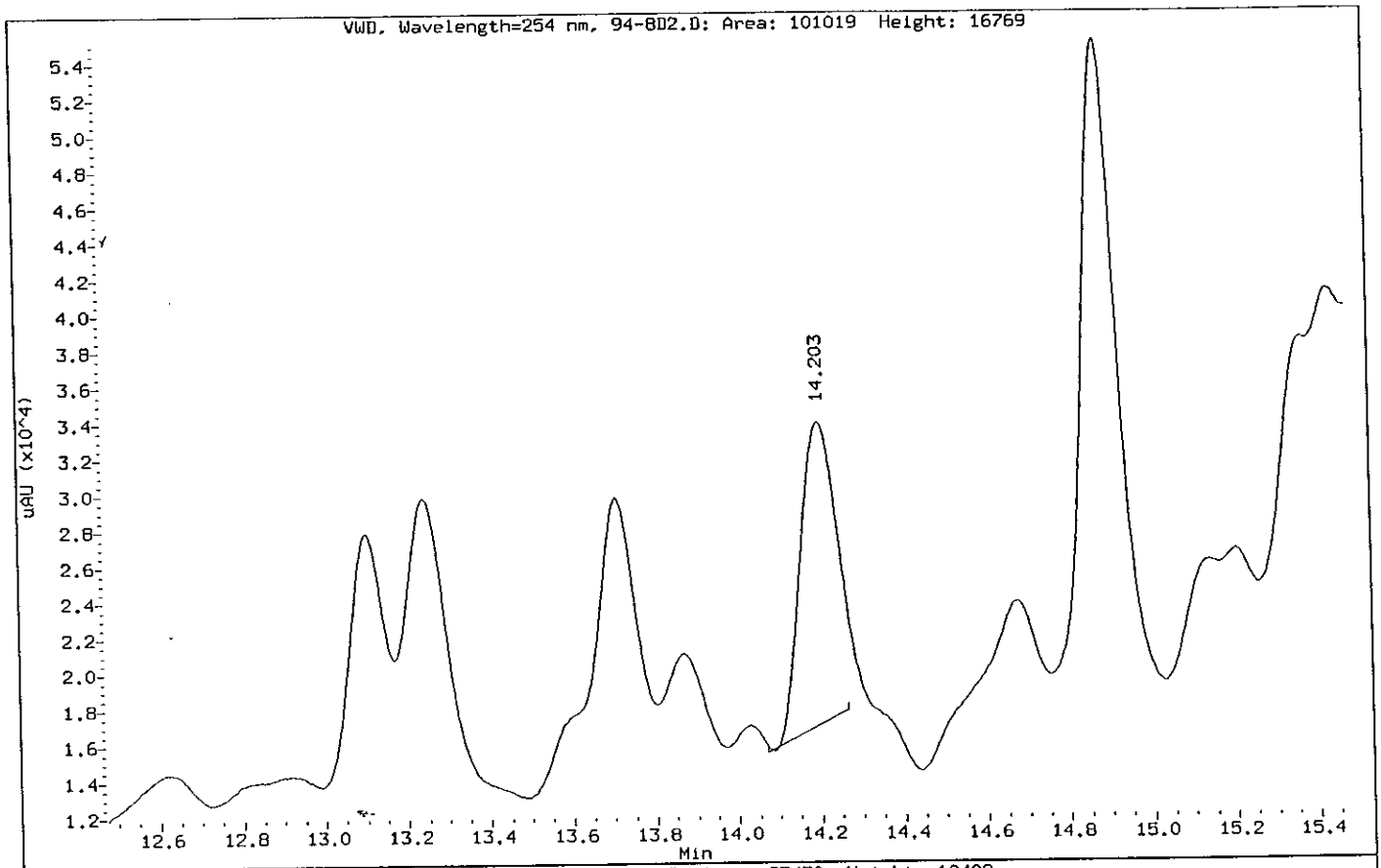
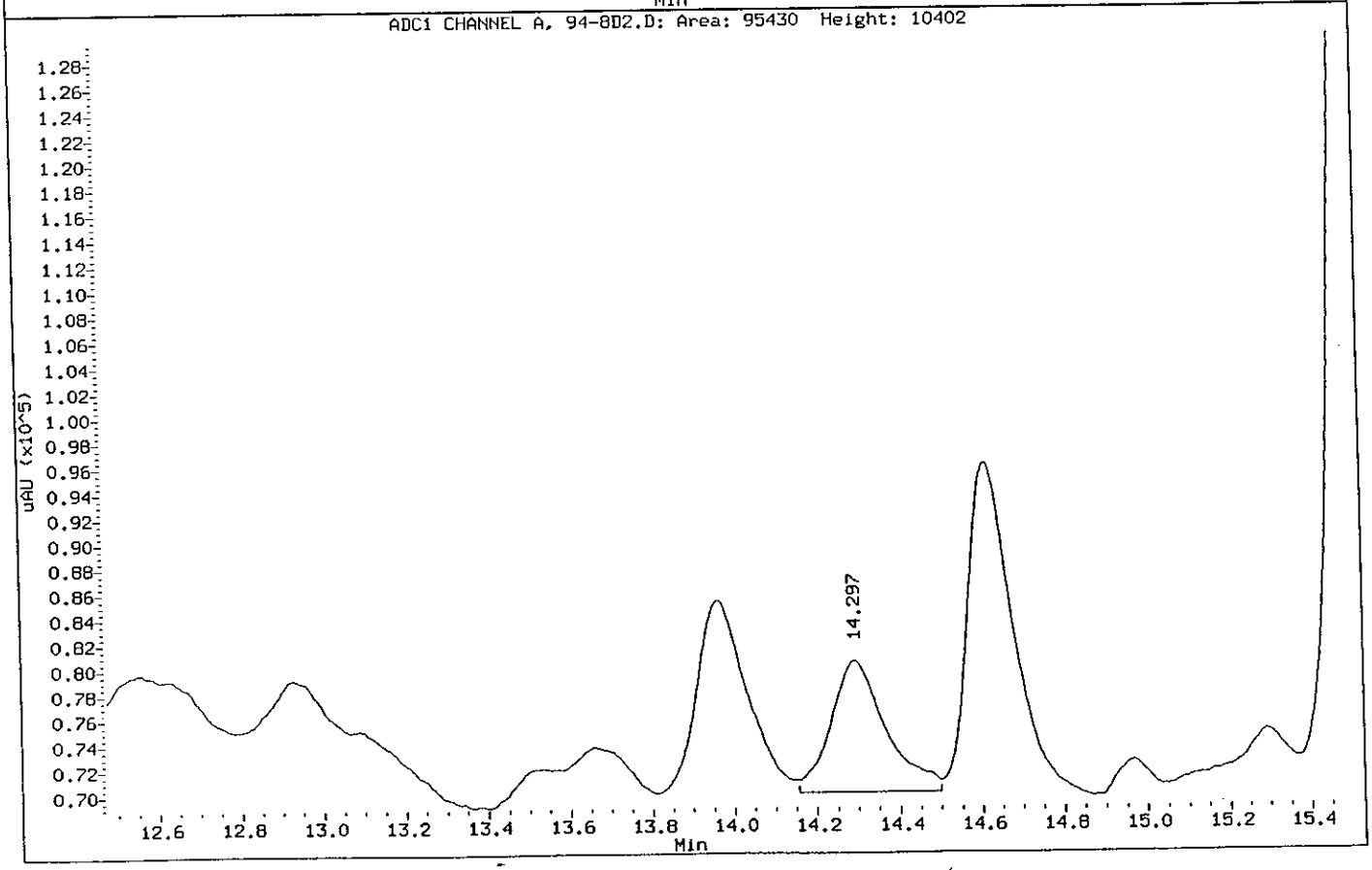
Injection Date: 29-OCT-2001 16:33
Instrument: slc02.i
Client Sample ID: 062B101S101801DLMS

Compound: 2-Methyl naphthalene
CAS Number: 91-57-6





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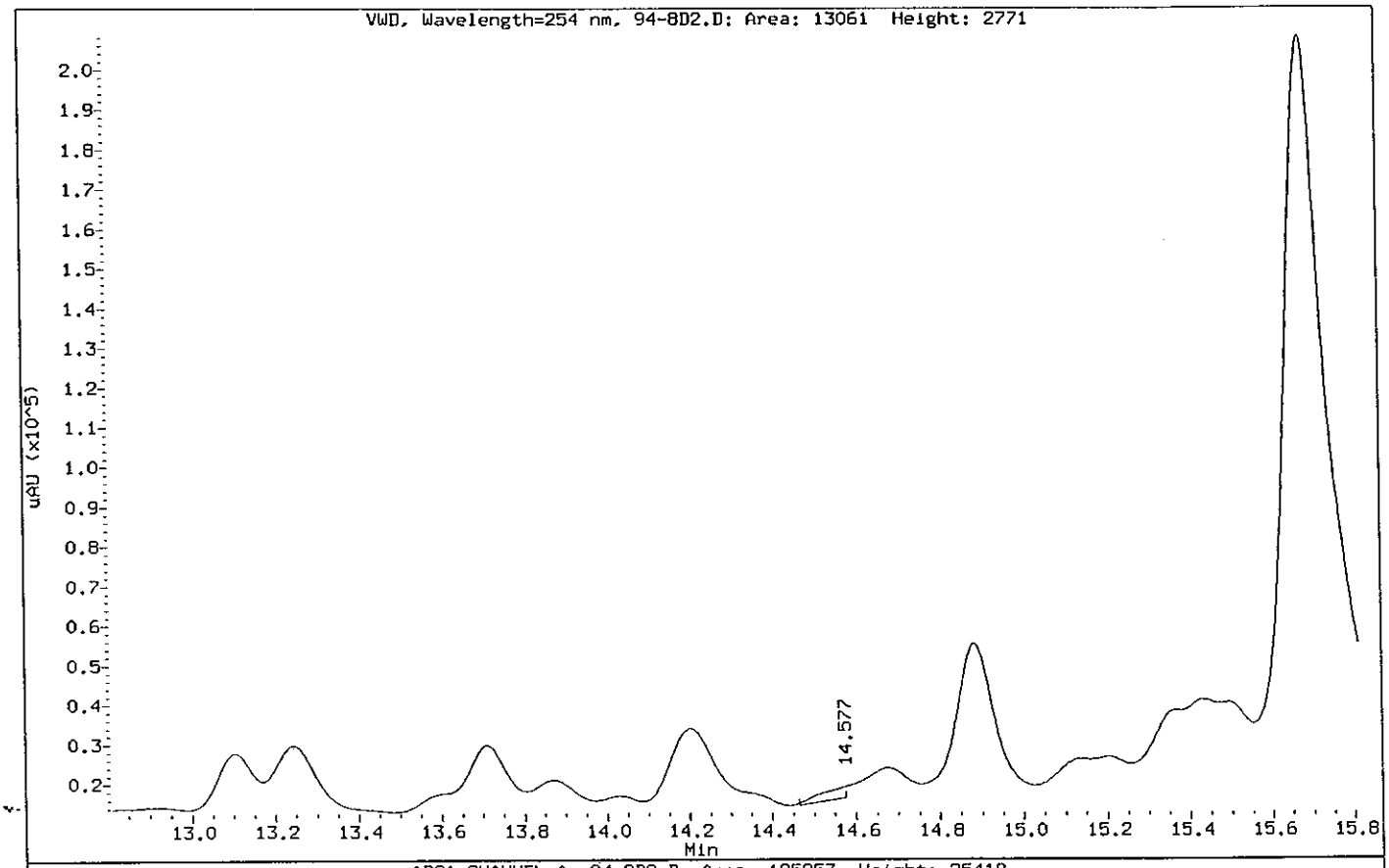
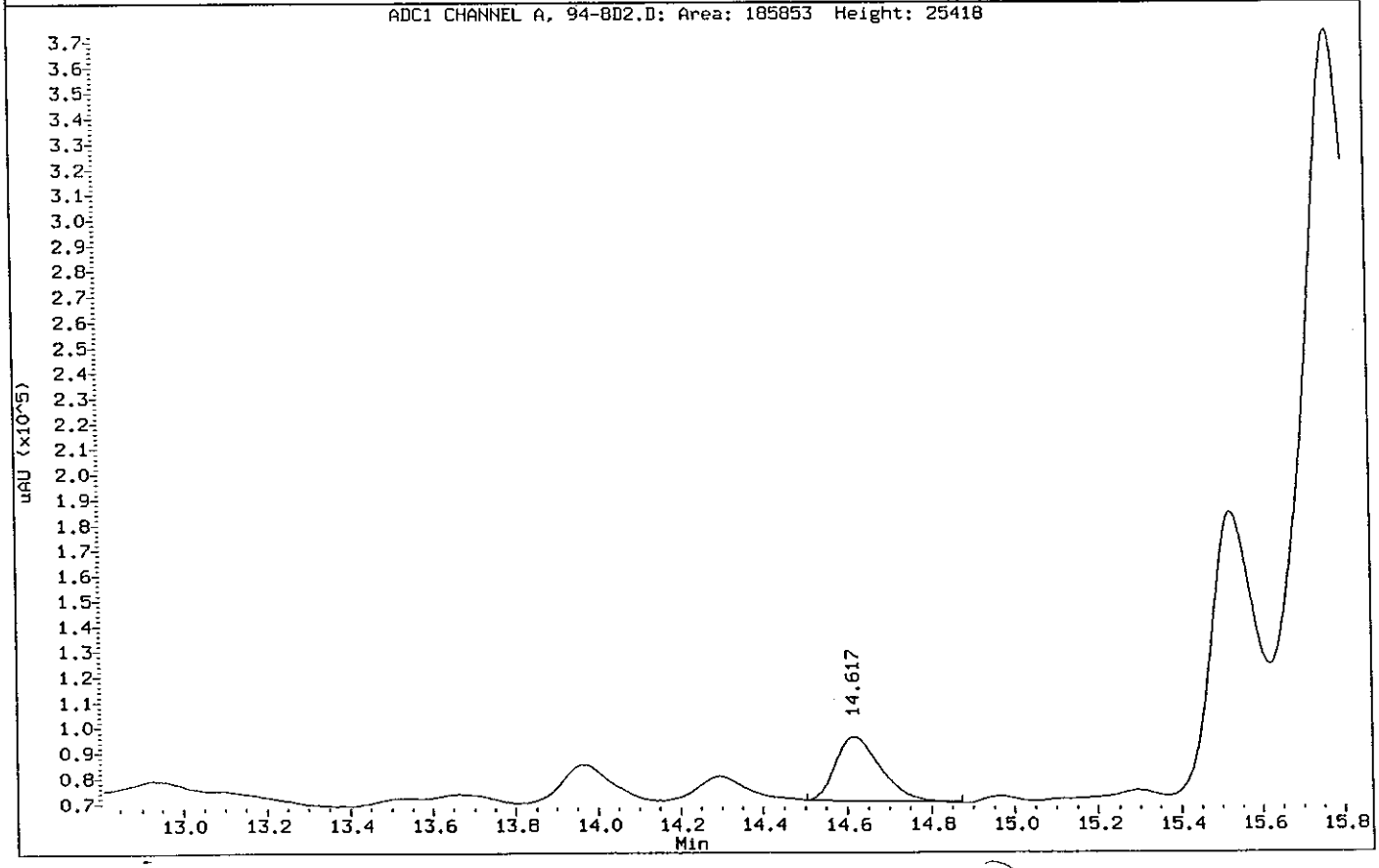
Instrument: slc02.i
Client Sample ID: 062B1015101801DLMS

Compound: Acenaphthene
CAS Number: 83-32-9





TMD

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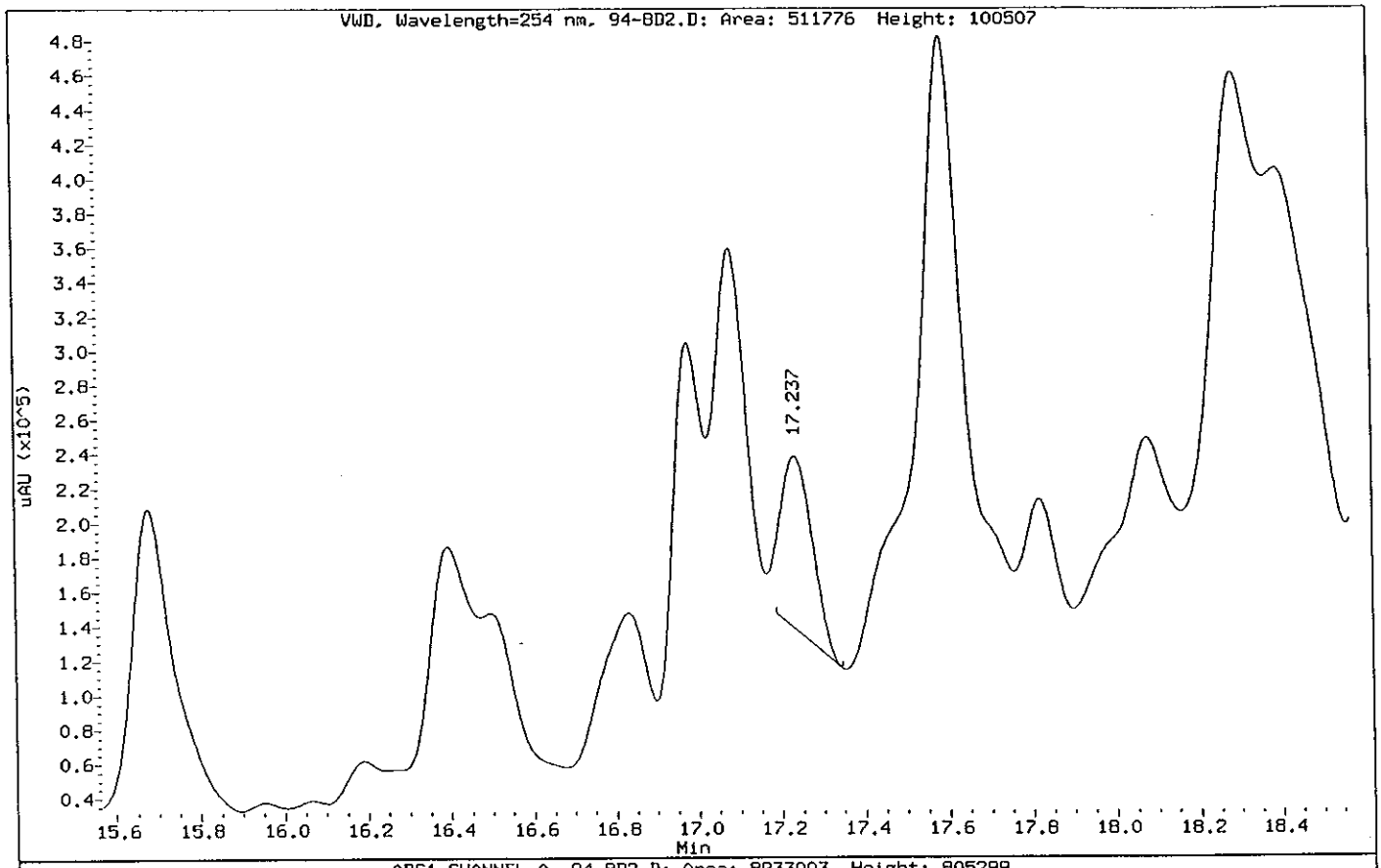
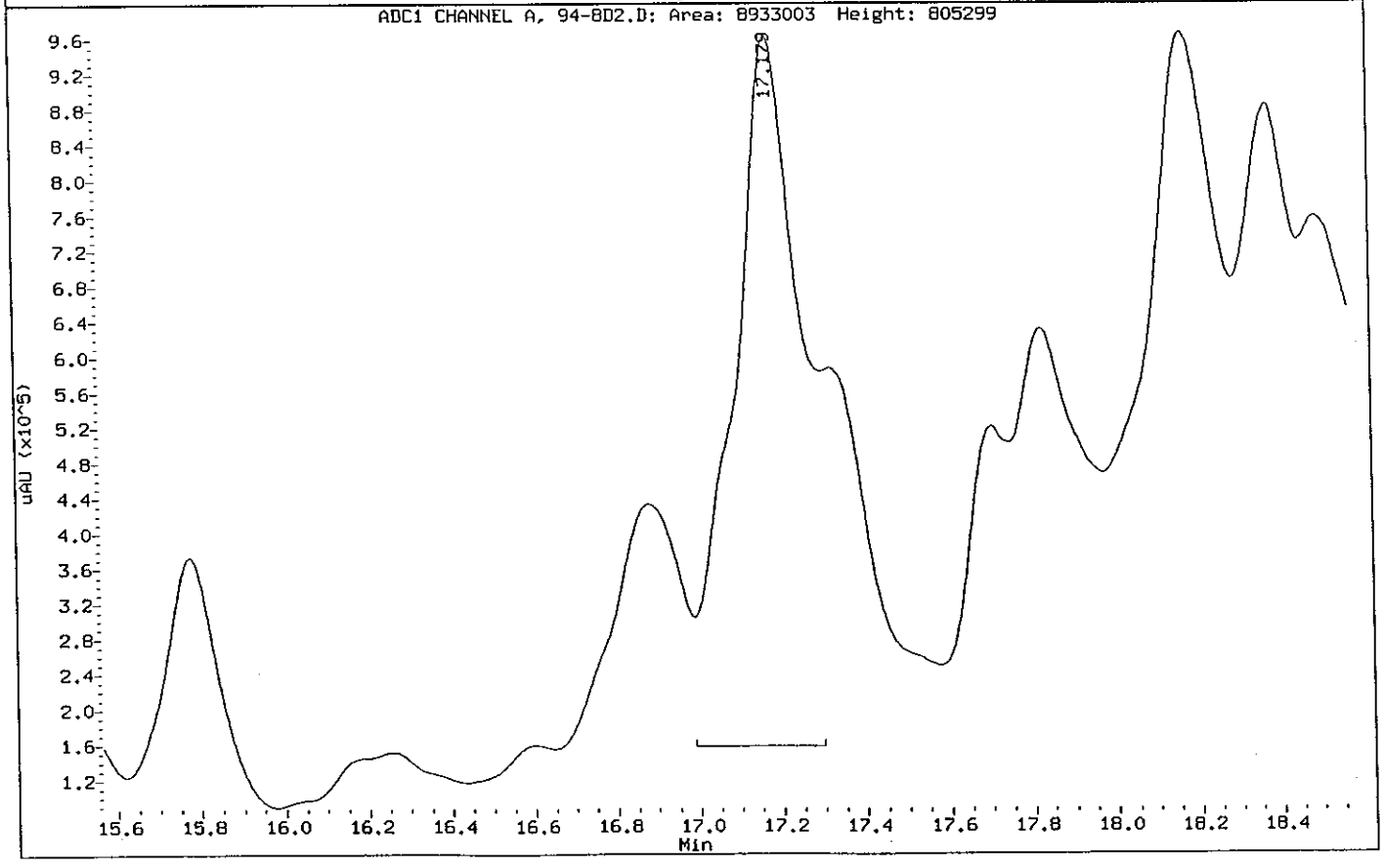
Injection Date: 29-OCT-2001 16:33
Instrument: slc02.i
Client Sample ID: 062B101S101B01DLMS

Compound: Fluoranthene
CAS Number: 206-44-0





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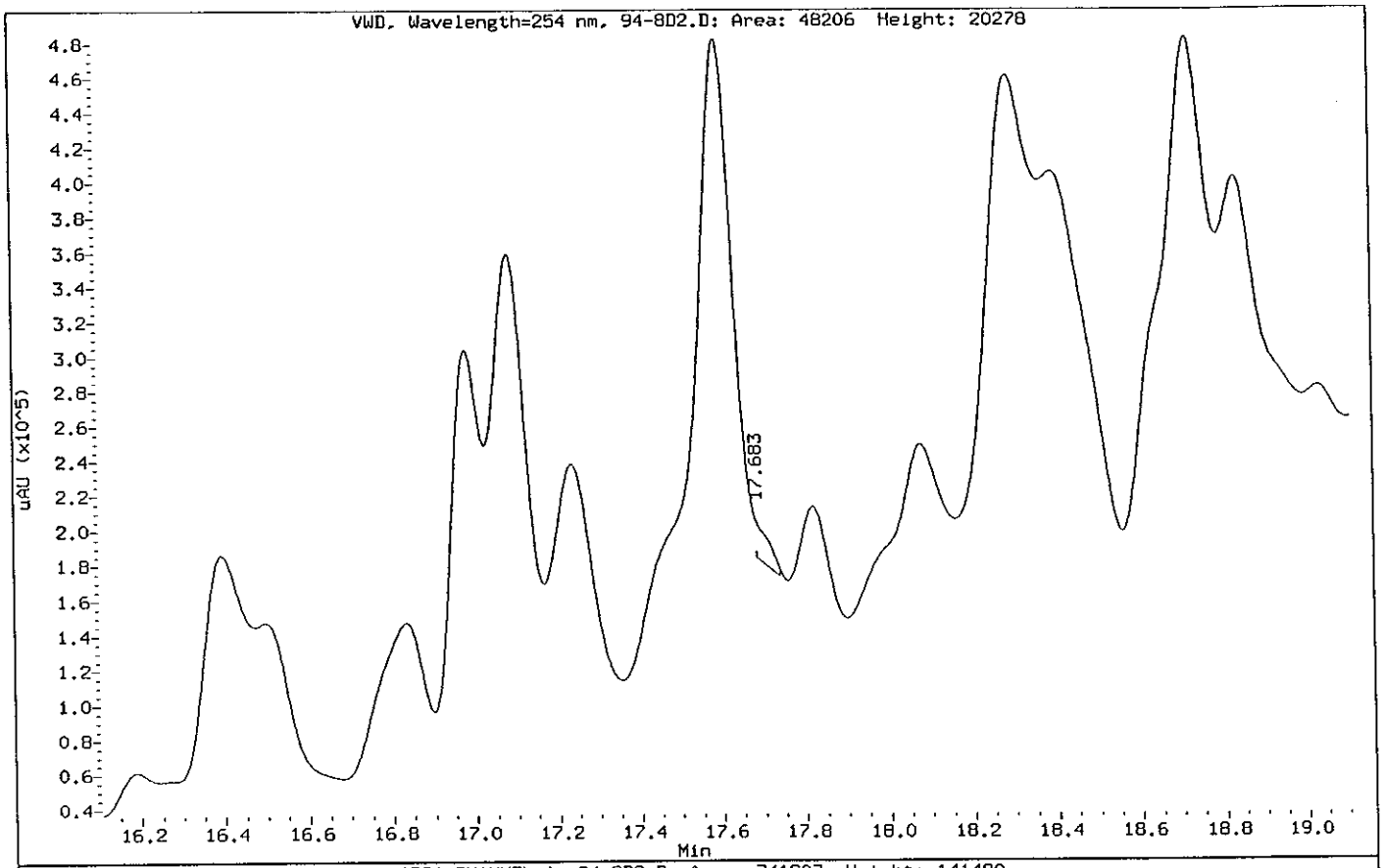
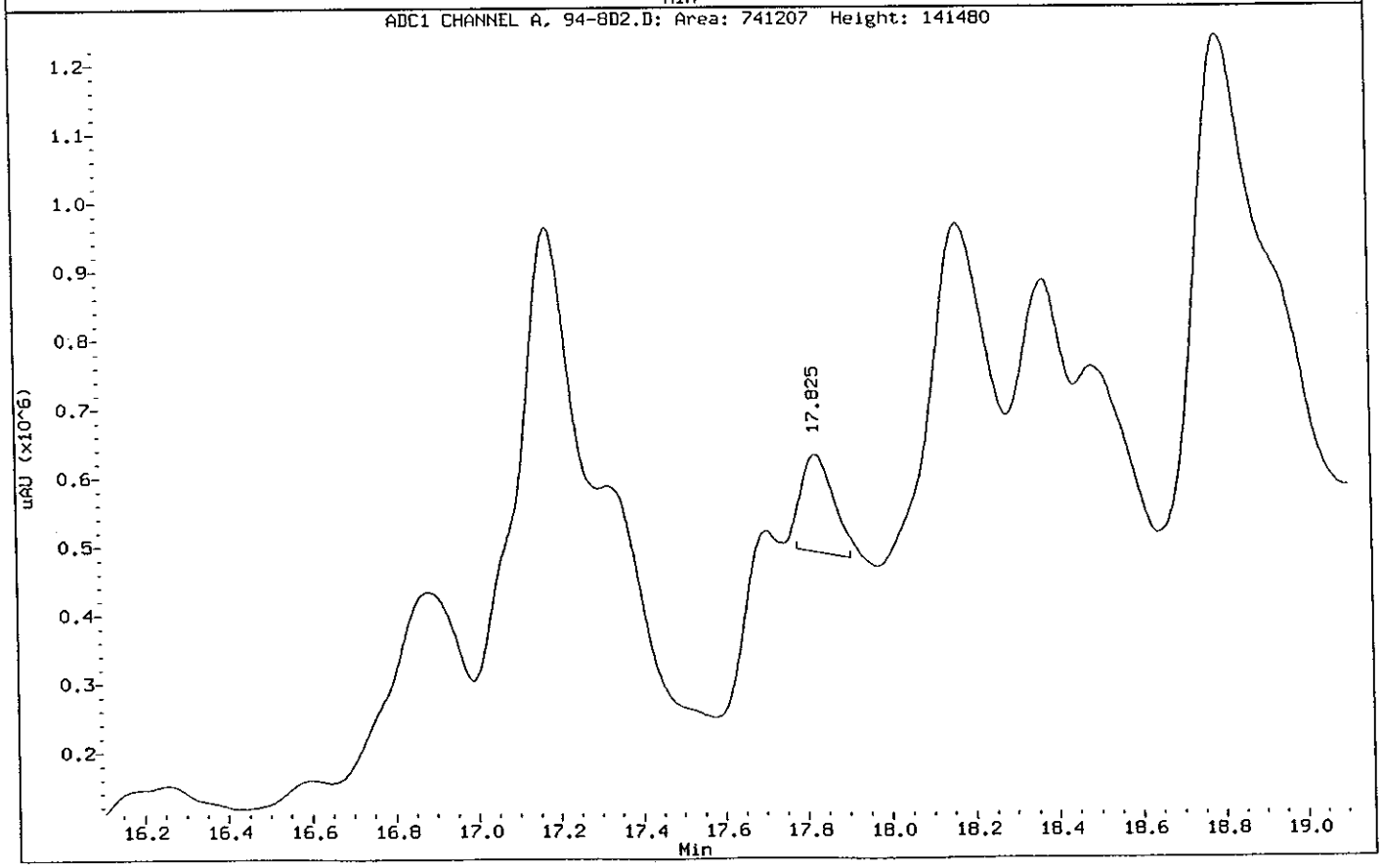
Injection Date: 29-OCT-2001 16:33
Instrument: slc02.i
Client Sample ID: 062B101S101801DLMS

Compound: Pyrene
CAS Number: 129-00-0





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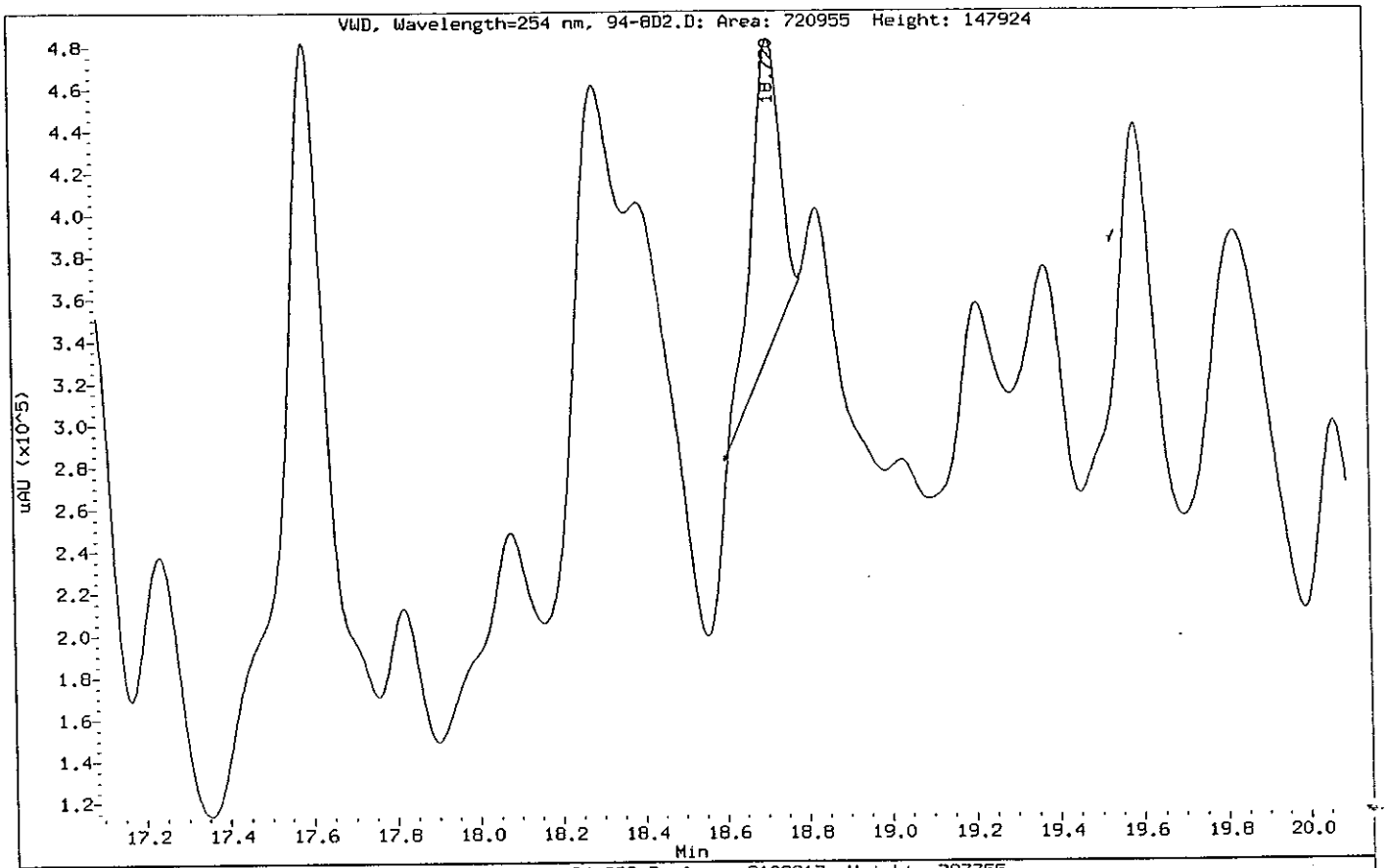
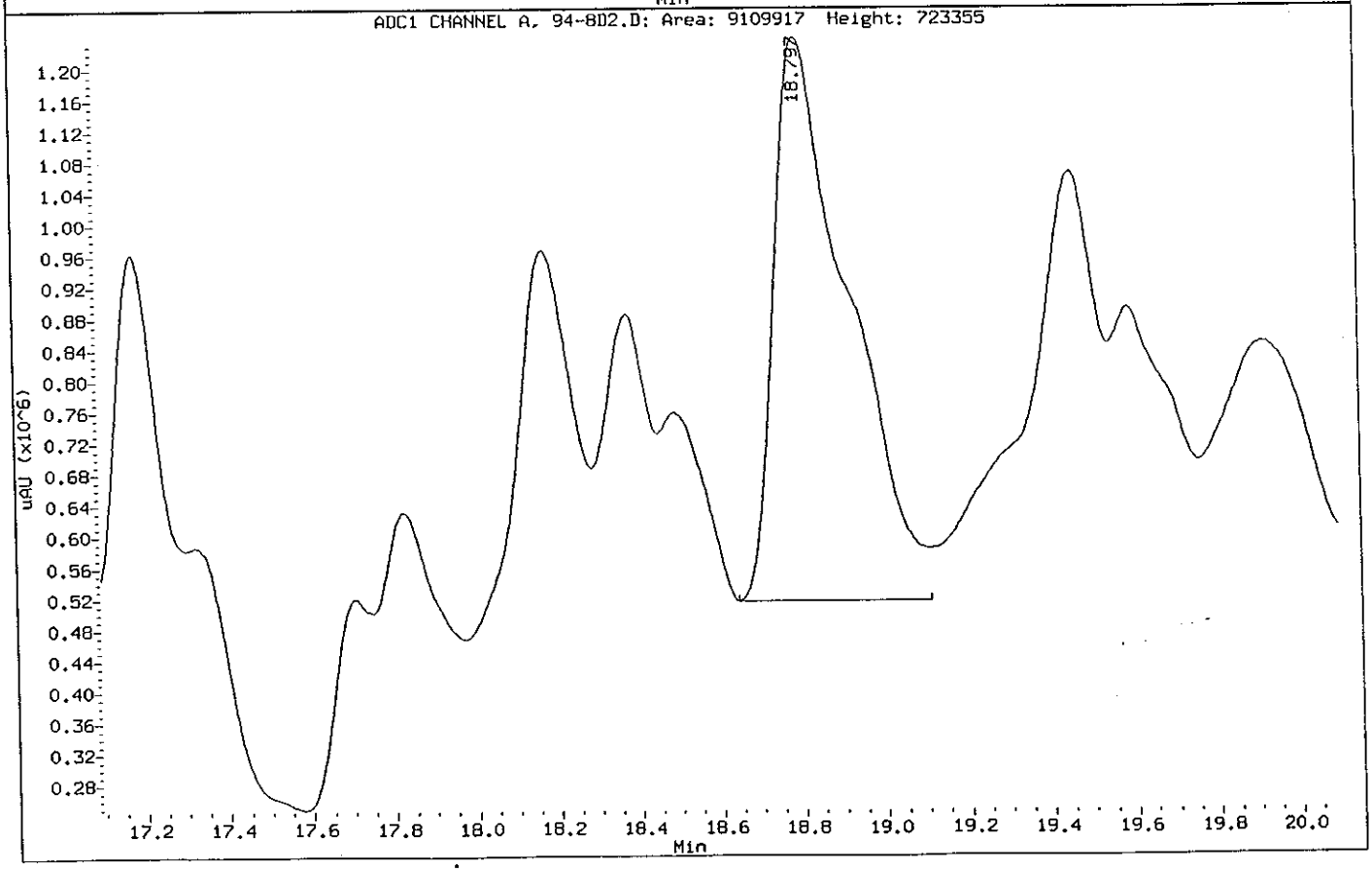
Client Sample ID: 062B101S101801DLMS

Compound: p-Terphenyl-d14 (SURR)
CAS Number: 1718-51-0





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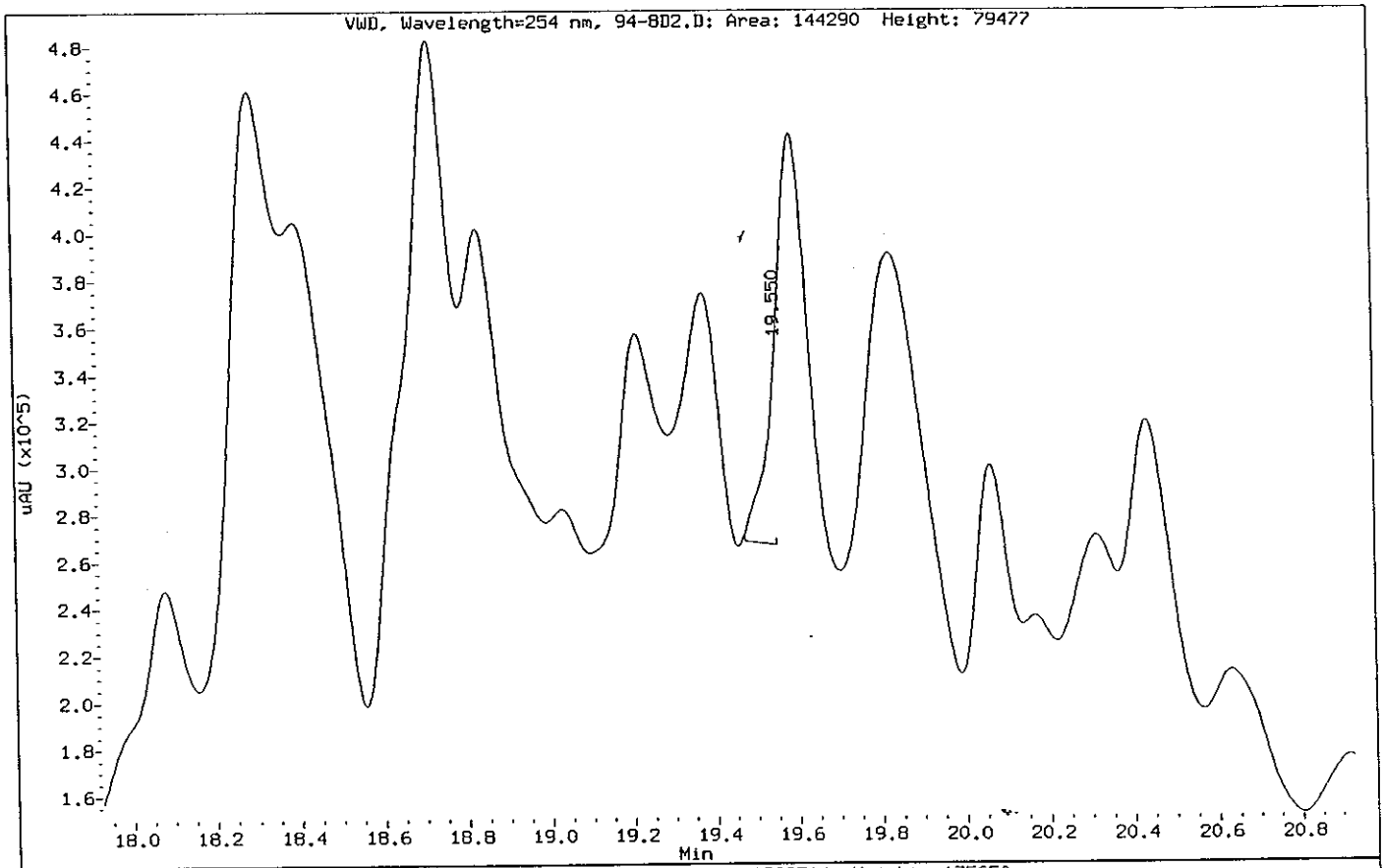
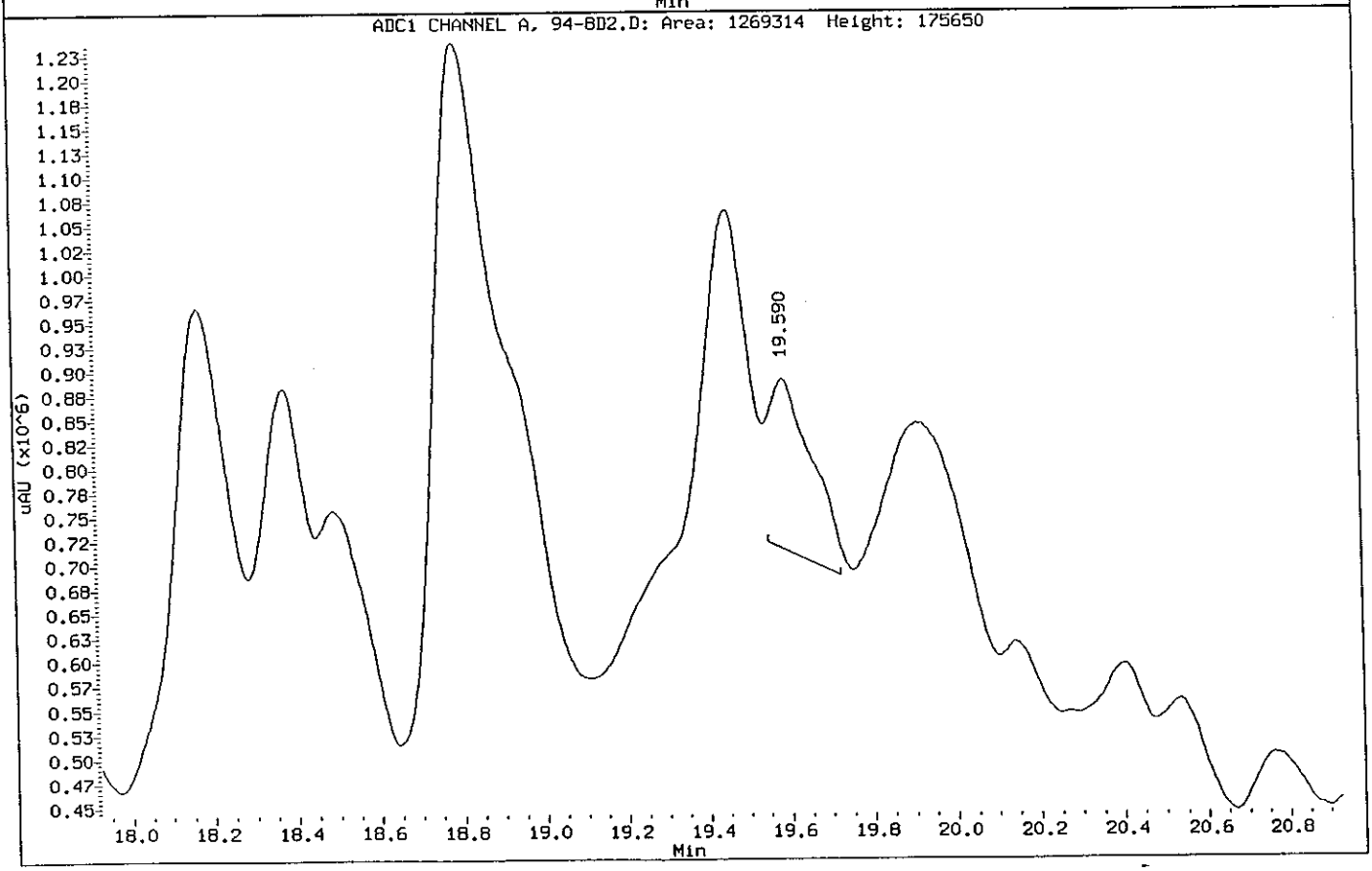
Injection Date: 29-OCT-2001 16:33
Instrument: slc02.i
Client Sample ID: 062B101S101B01DLMS

Compound: Benzo(a)Anthracene
CAS Number: 56-55-3





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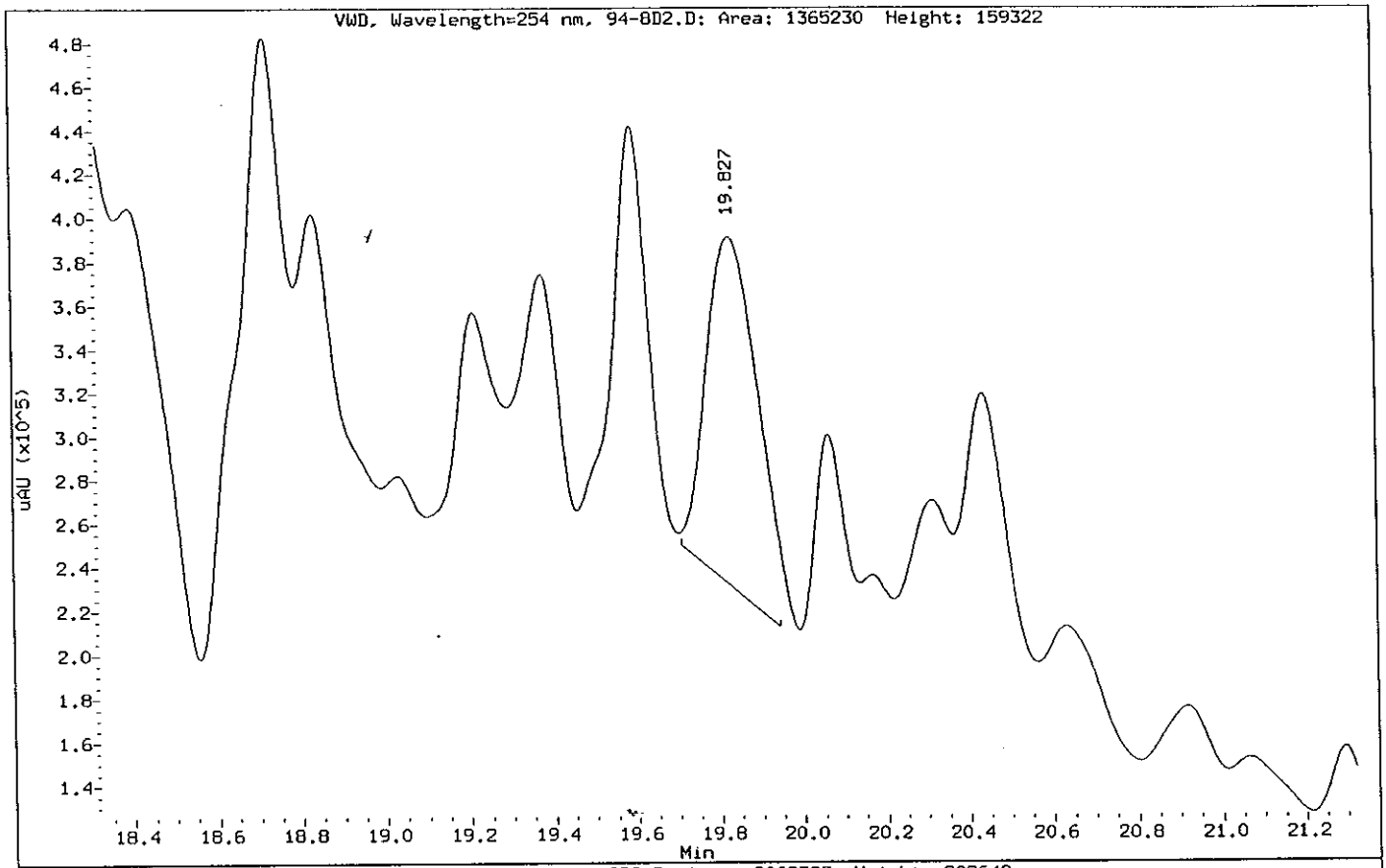
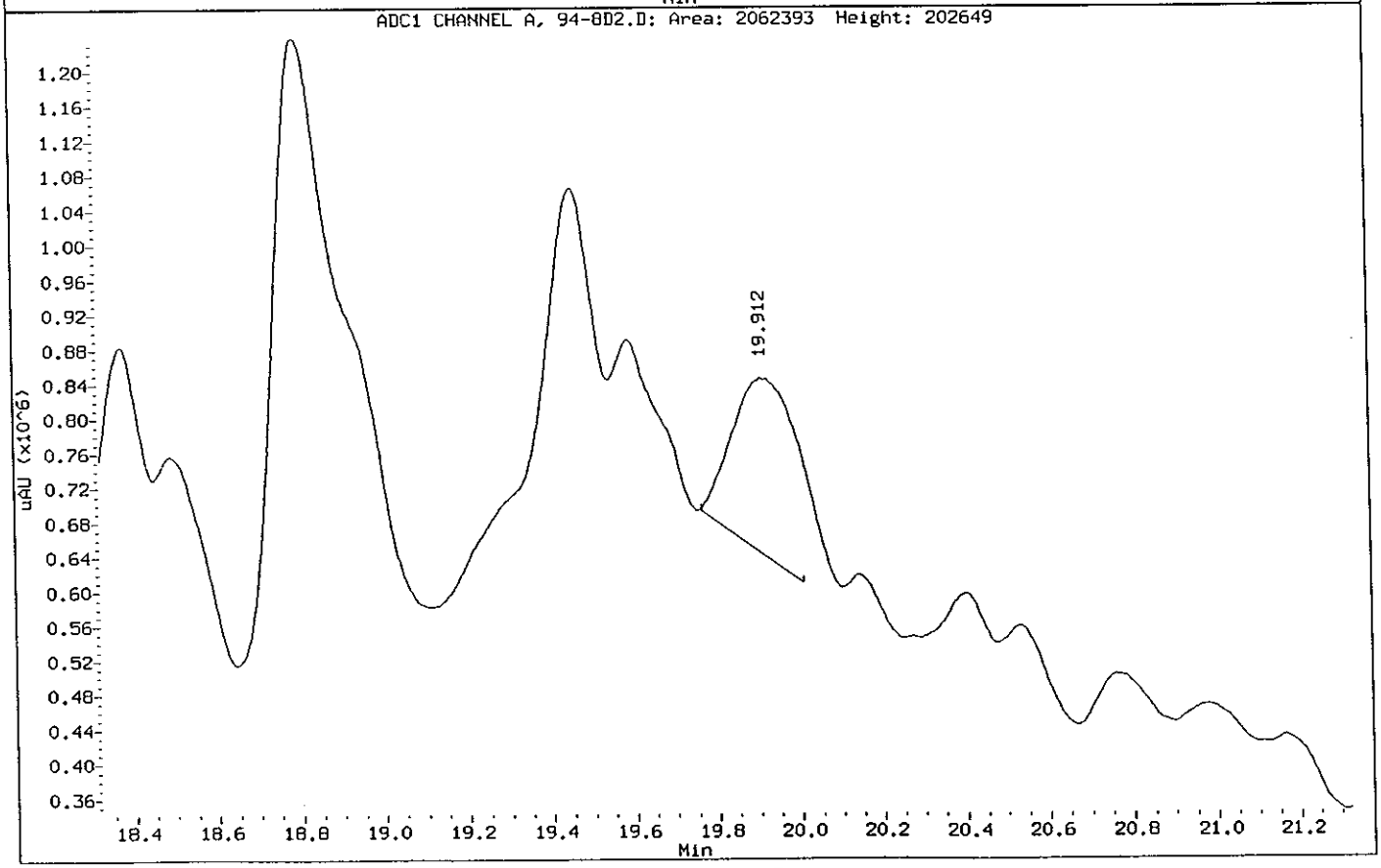
Injection Date: 29-OCT-2001 16:33
Instrument: slc02.i
Client Sample ID: 062B101S101801DLMS

Compound: Chrysene
CAS Number: 218-01-9





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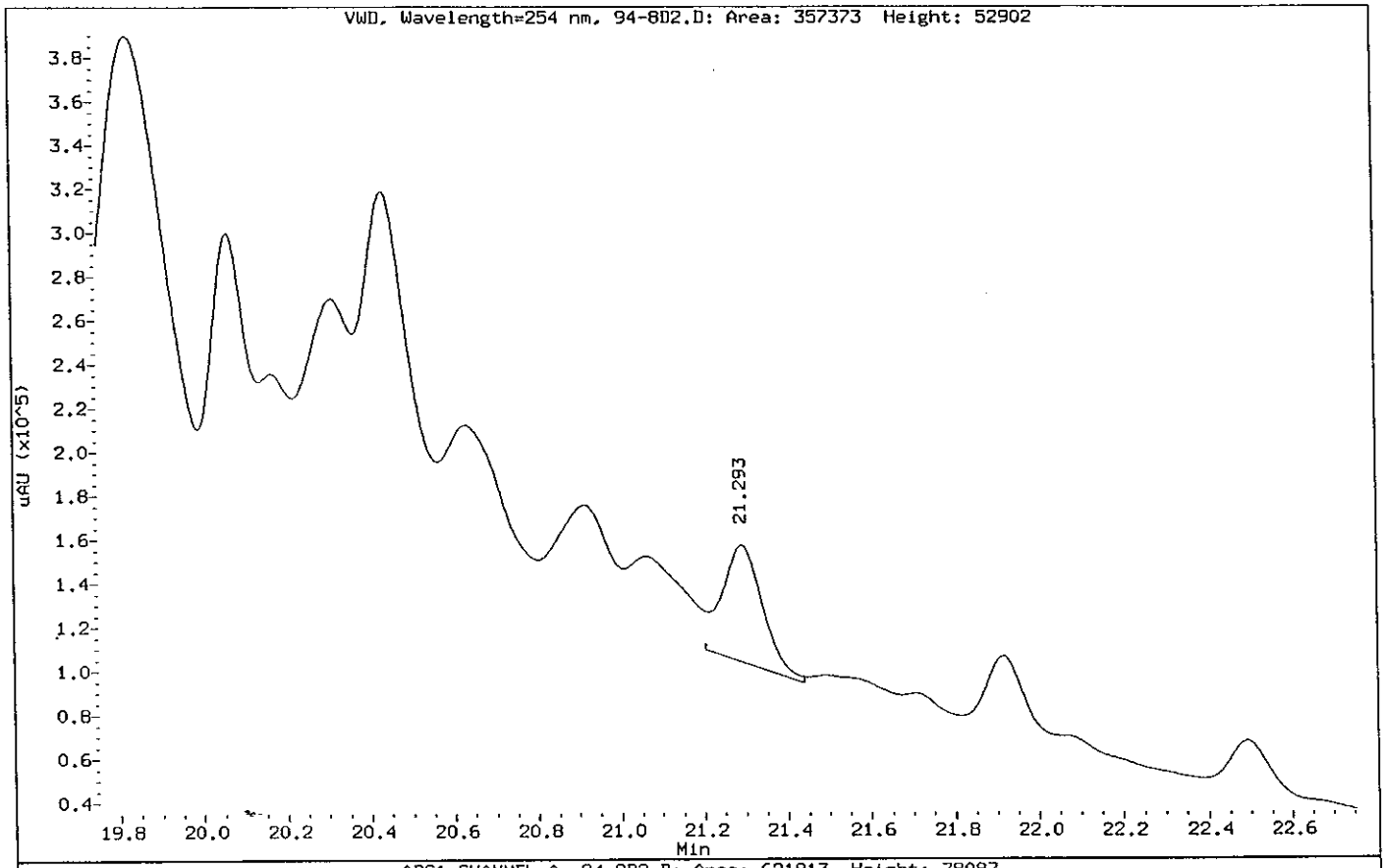
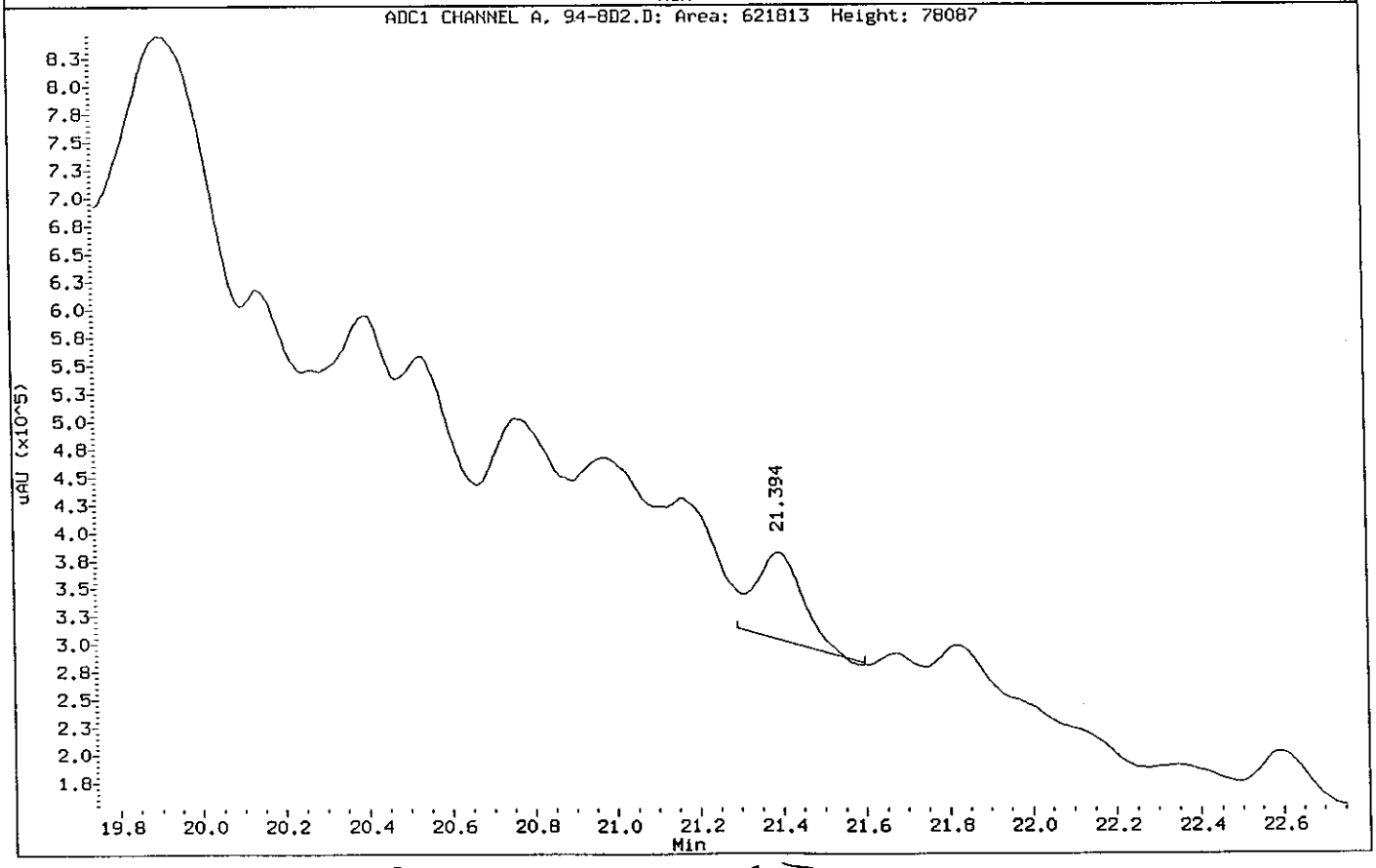
Instrument: slc02.i
Client Sample ID: 062B101S101801DLMS

Compound: Benzo(b)Fluoranthene
CAS Number: 205-99-2





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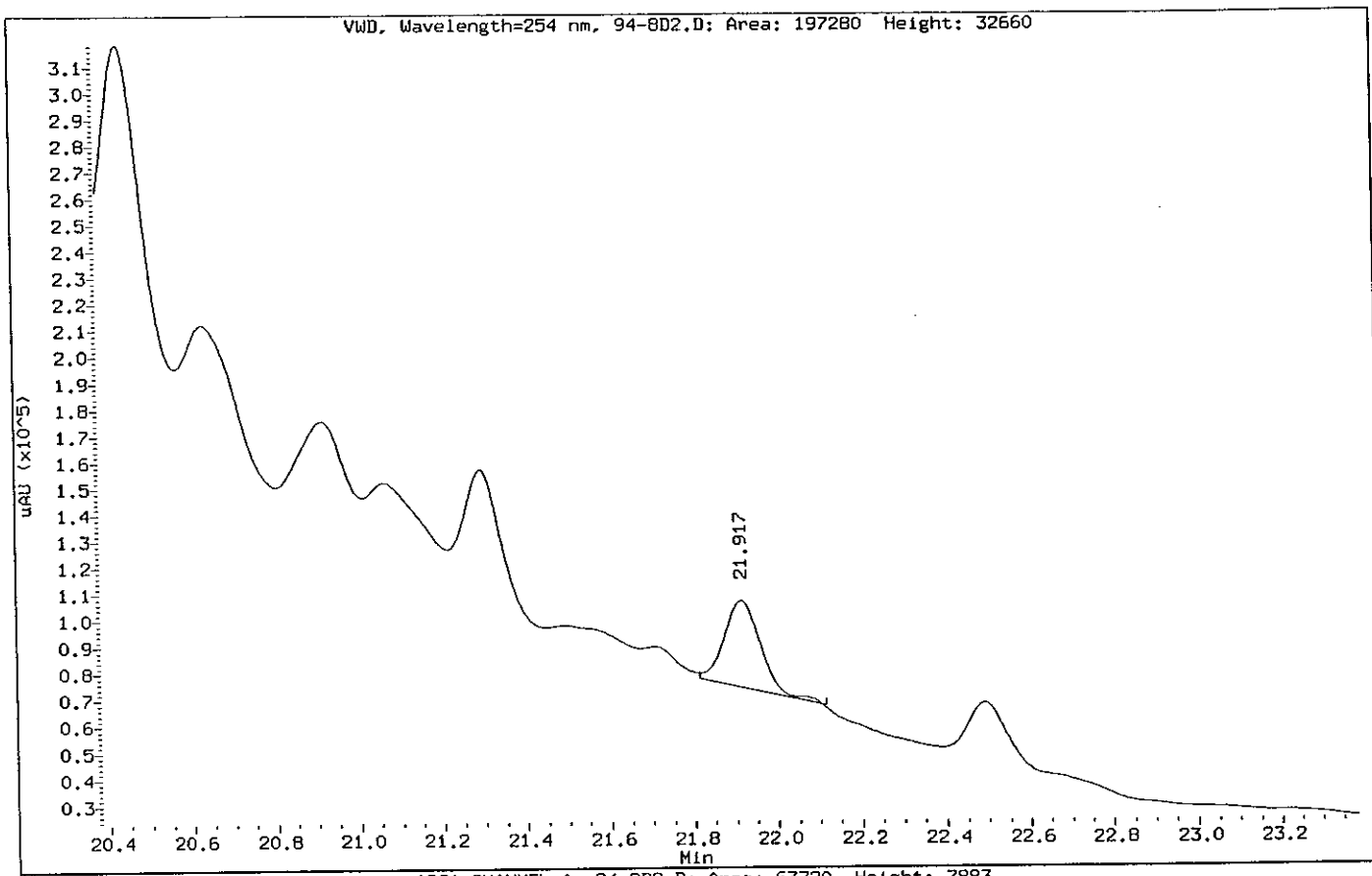
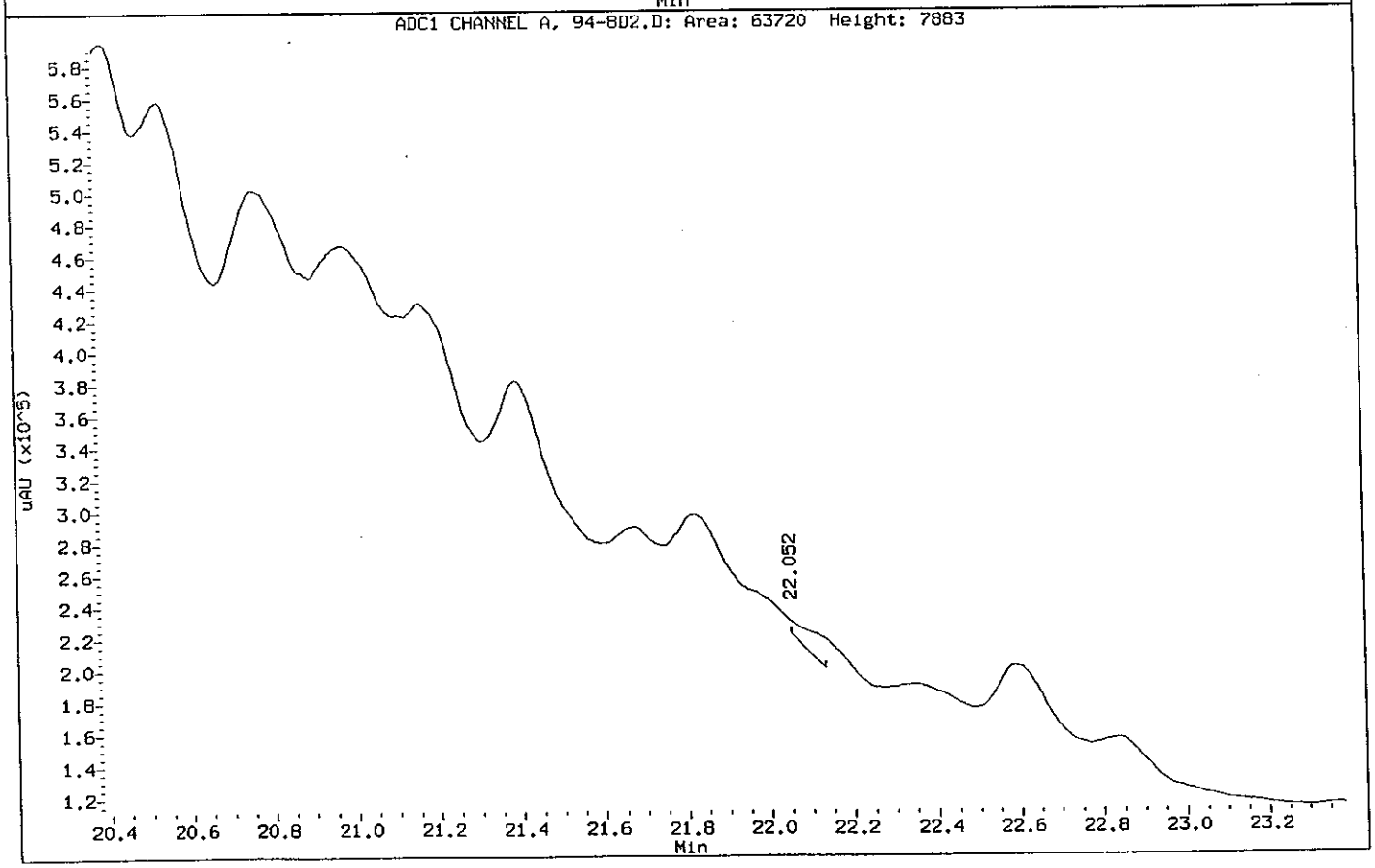
Instrument: slc02.i
Client Sample ID: 062B101S101801DLMS

Compound: Benzo(k)Fluoranthene
CAS Number: 207-08-9





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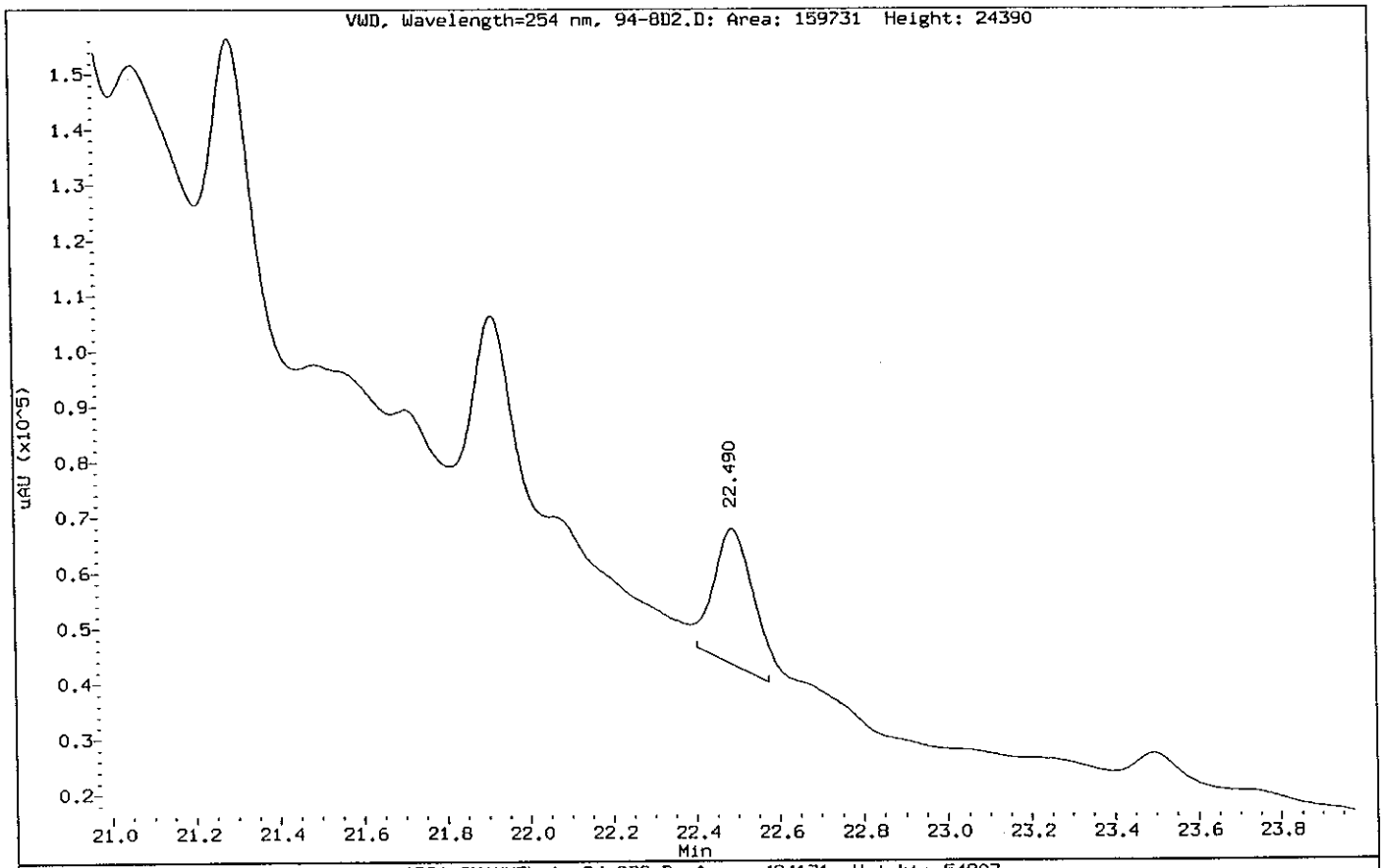
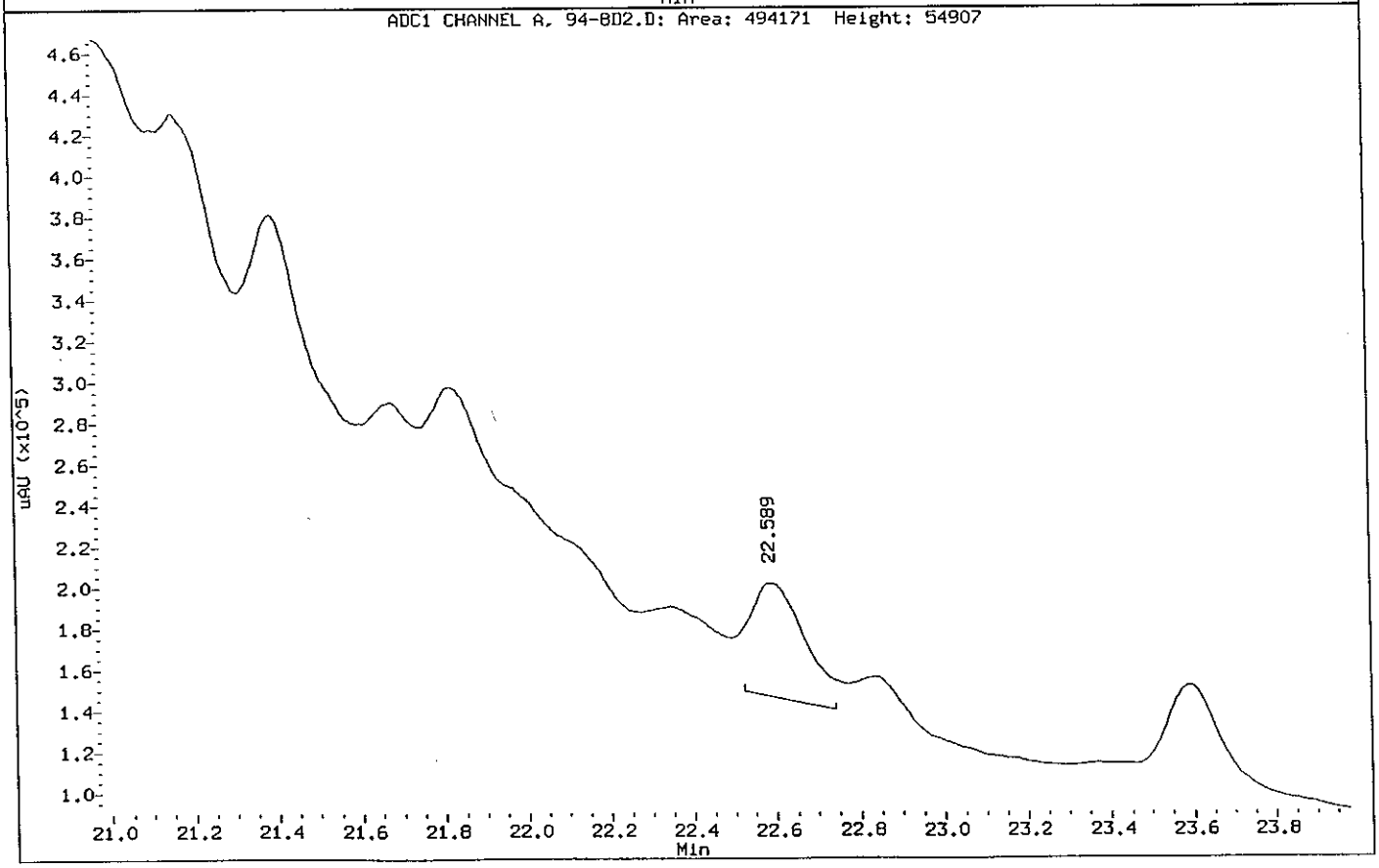
Injection Date: 29-OCT-2001 16:33
Instrument: slc02.i
Client Sample ID: 062B101S101801DLMS

Compound: Benzo(a)pyrene
CAS Number: 50-32-8





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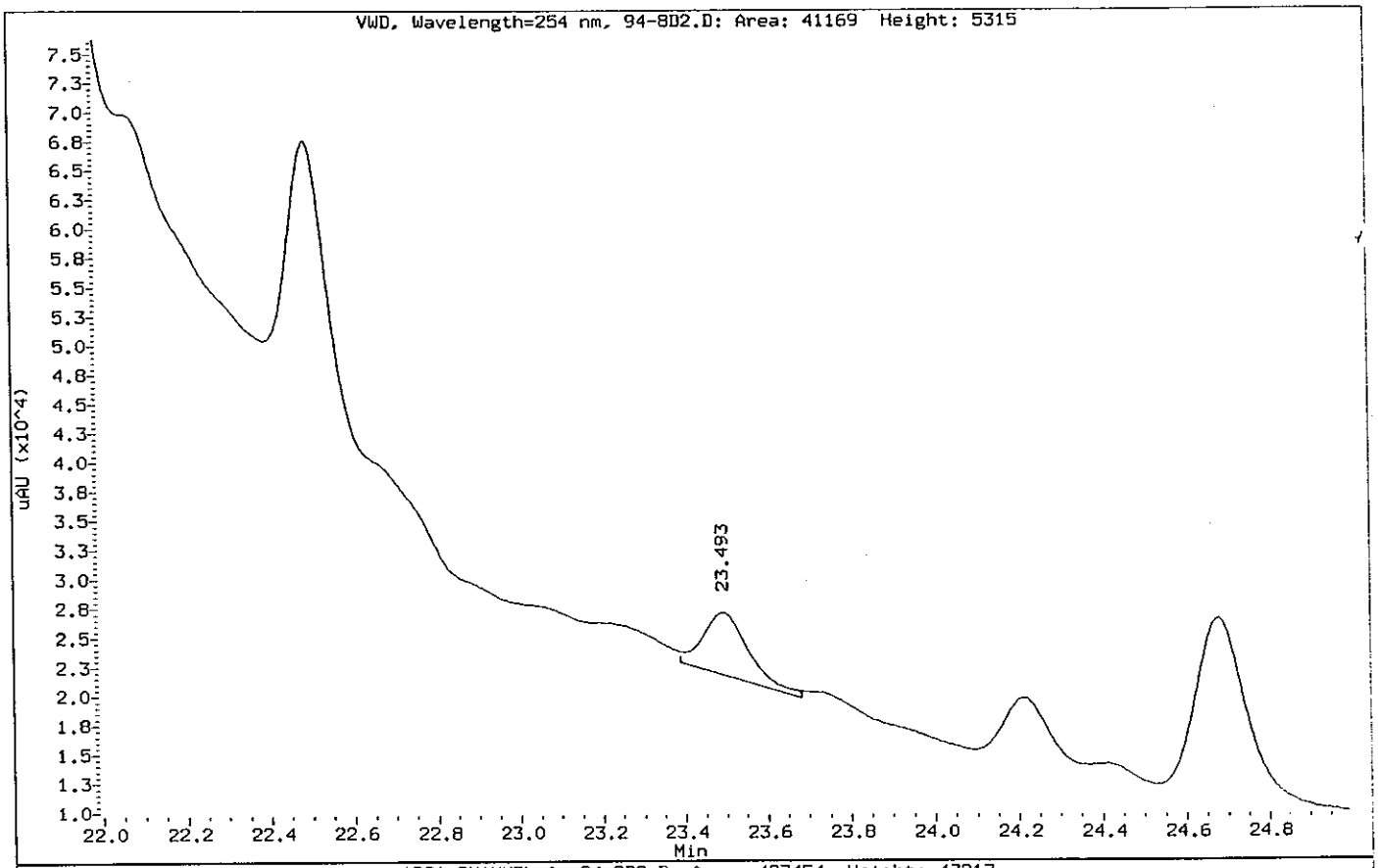
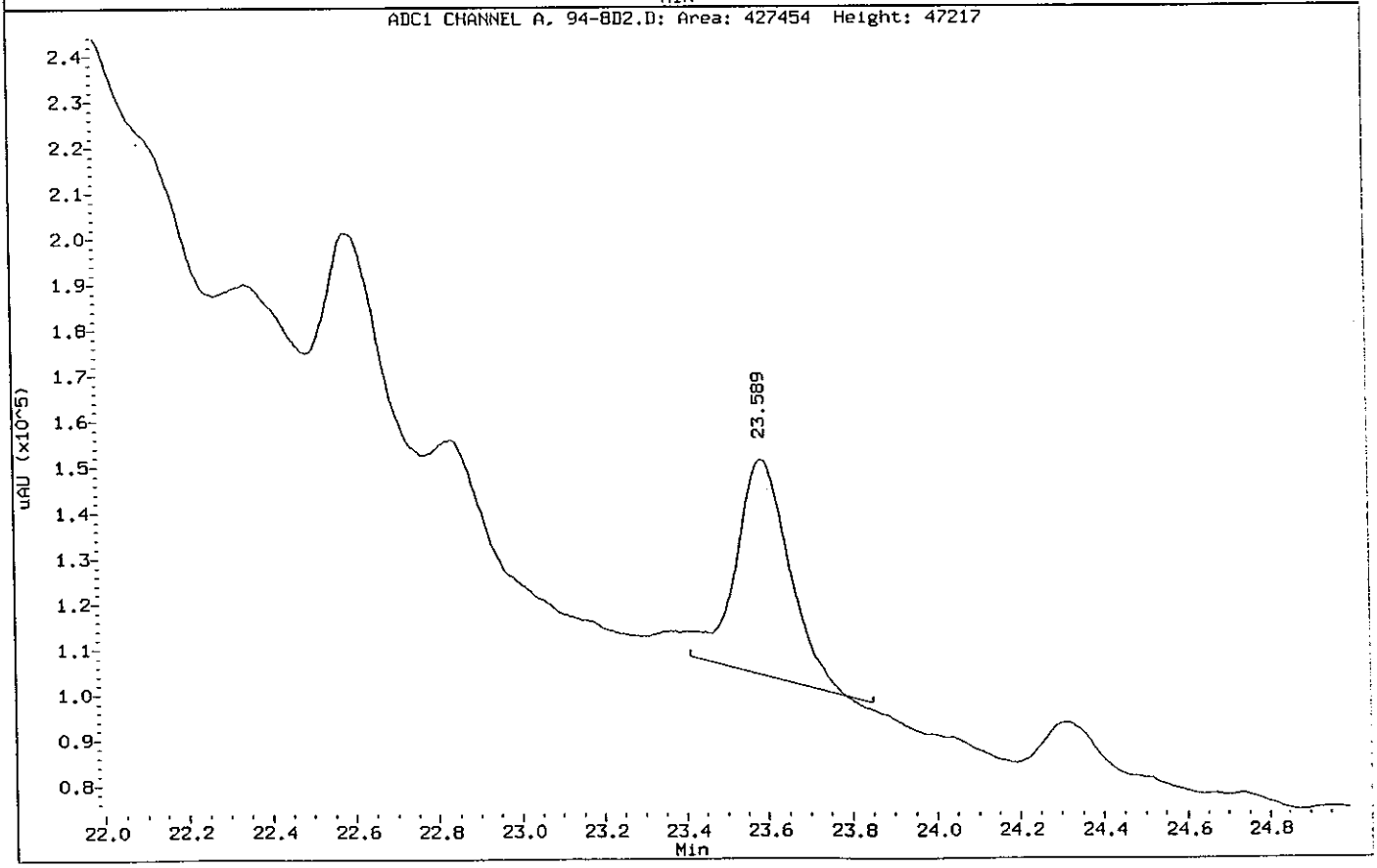
Injection Date: 29-OCT-2001 16:33
Instrument: slc02.i
Client Sample ID: 062B101S101801DLMS

Compound: Dibenz(ah)Anthracene
CAS Number: 53-70-3





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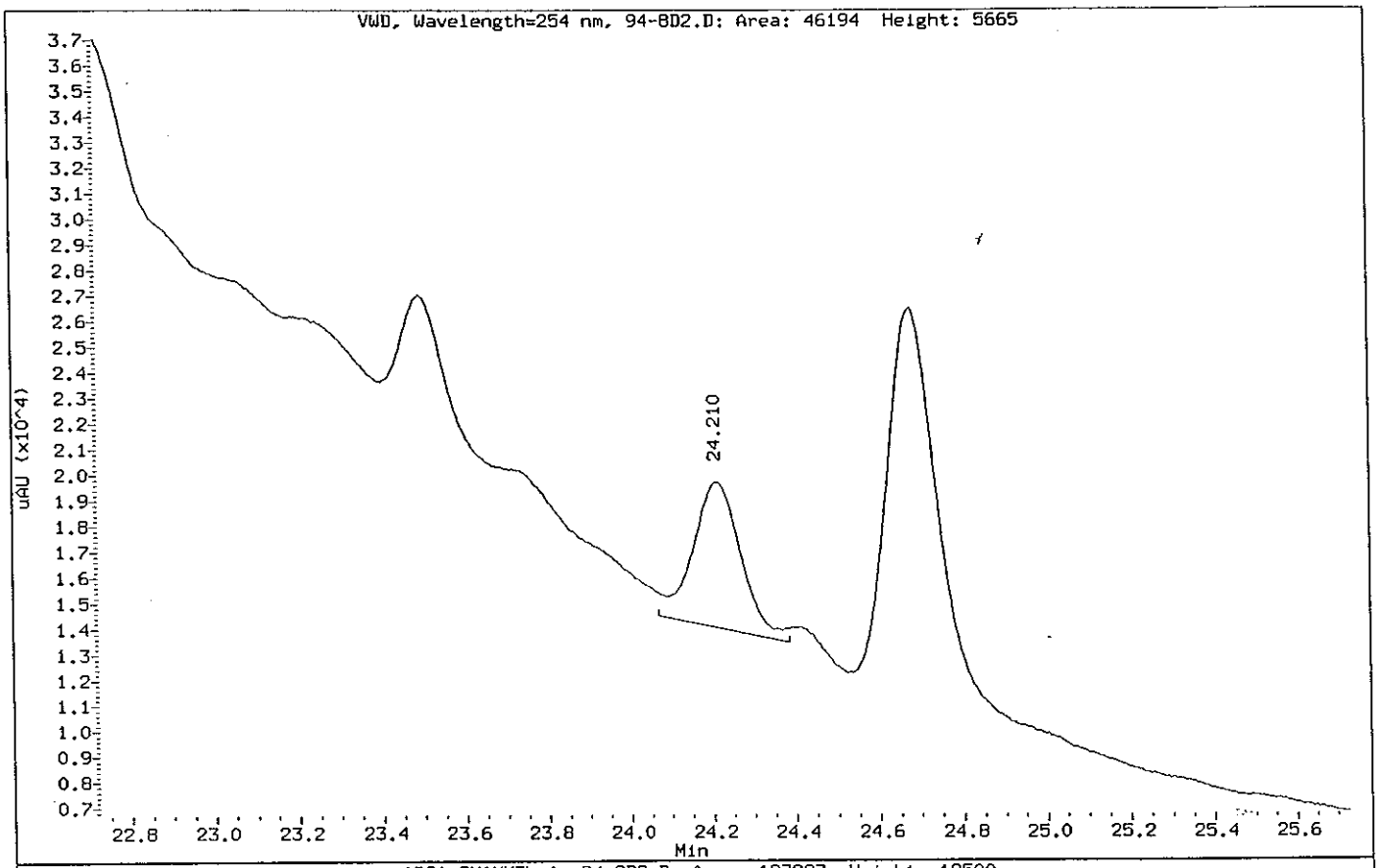
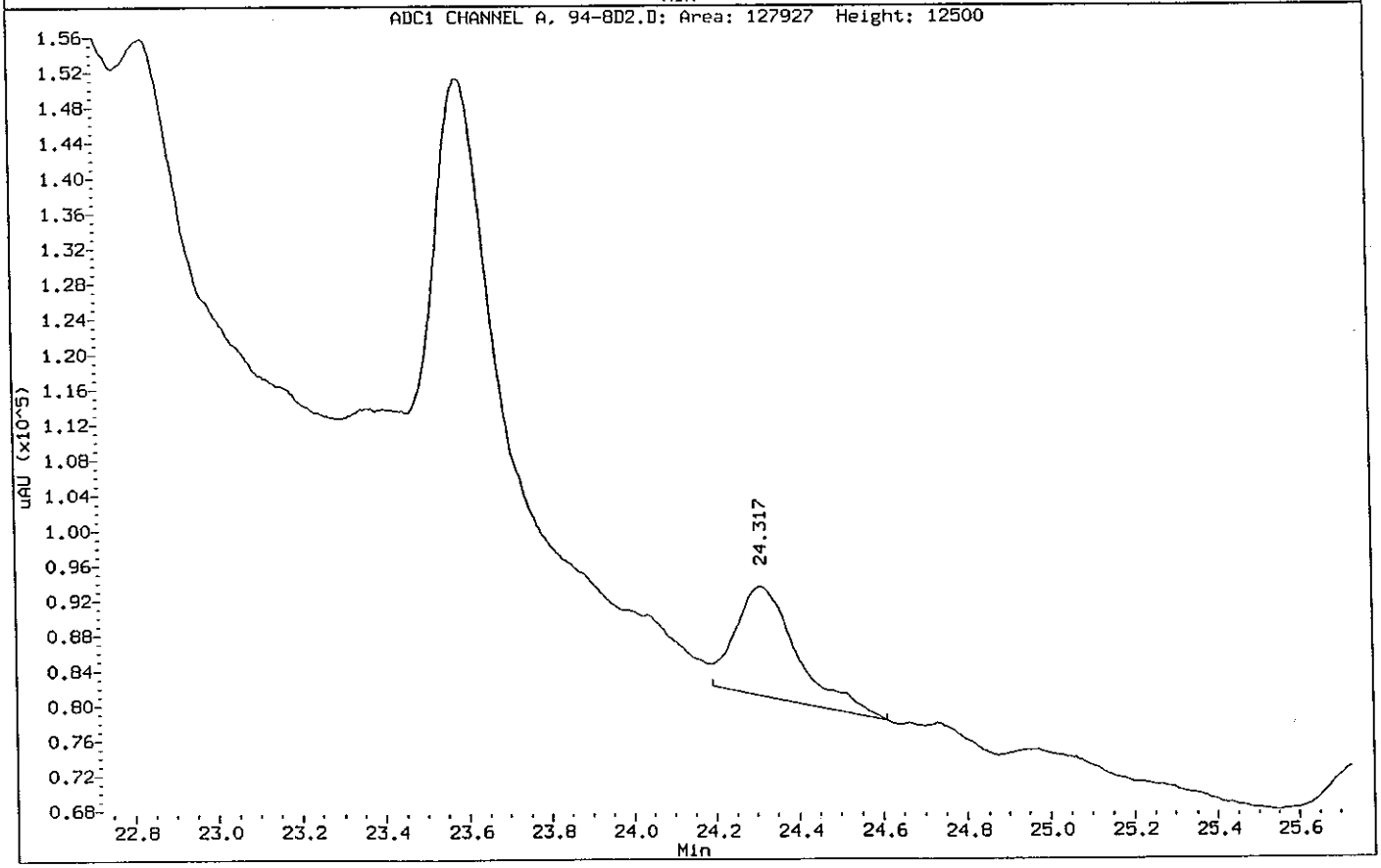
Injection Date: 29-OCT-2001 16:33
Instrument: slc02.i
Client Sample ID: 062B101S101801DLMS

Compound: Benzo(ghi)Perylene
CAS Number: 191-24-2





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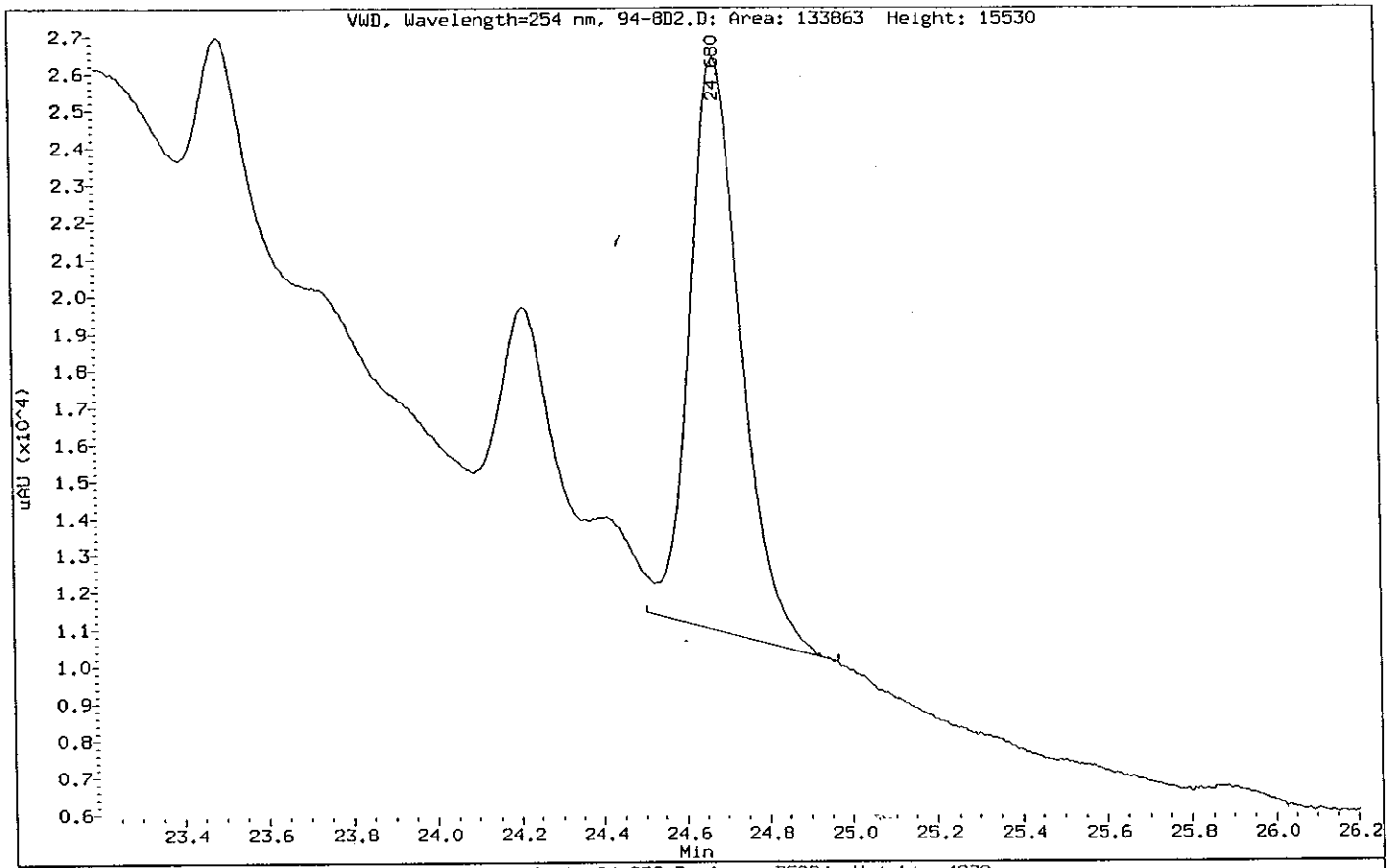
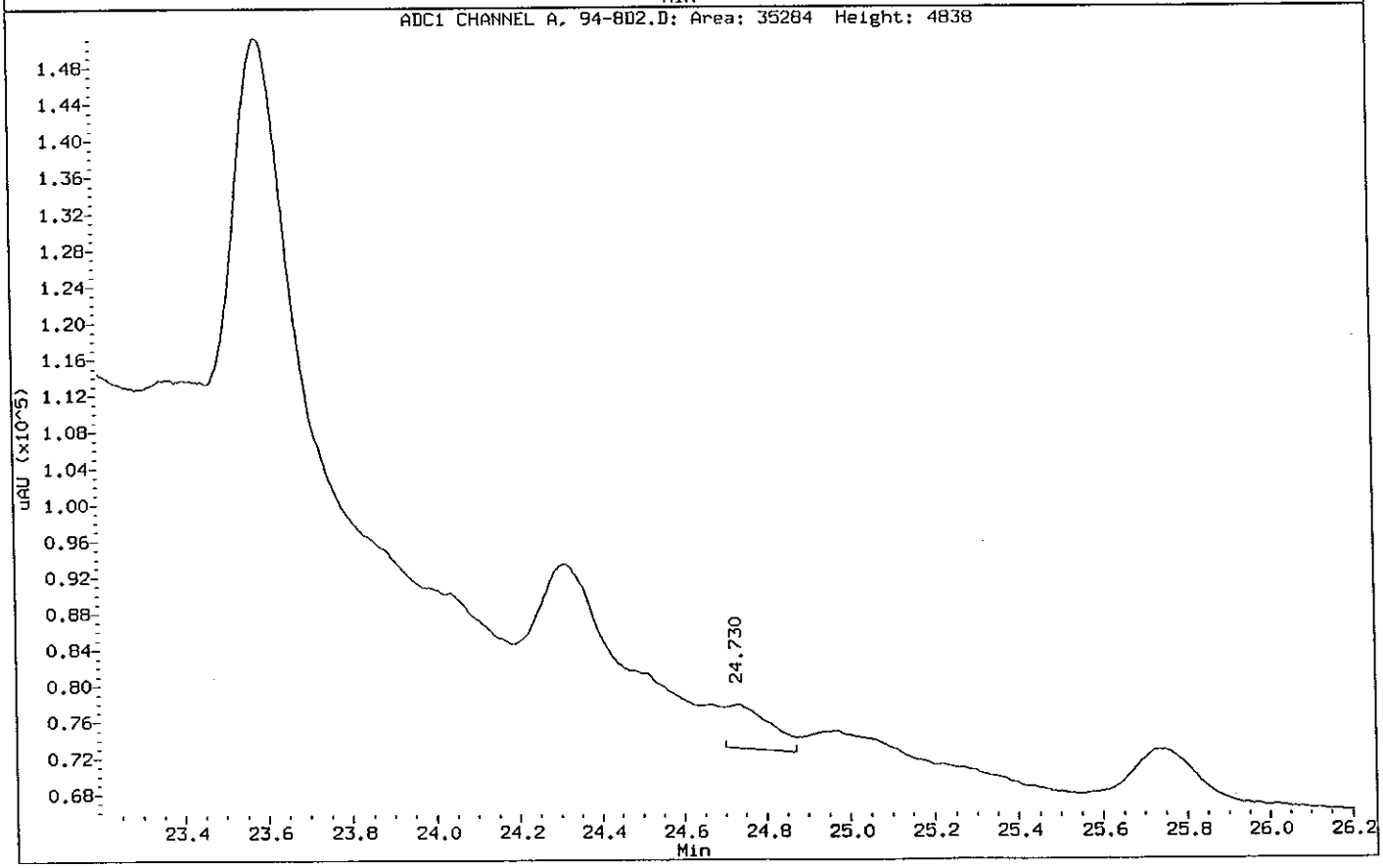
Injection Date: 29-OCT-2001 16:33
Instrument: slc02.i
Client Sample ID: 062B101S101801DLMS

Compound: Indeno(123cd)Pyrene
CAS Number: 193-39-5





PEL Laboratories

Data file : \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-9D2.D
Lab Smp Id: 211009409DL1 Client Smp ID: 062B101S101801DLMSD
Inj Date : 29-OCT-2001 17:08
Operator : rood Inst ID: slc02.i
Smp Info : 211009409
Misc Info :
Comment :
Method : \\SVHPLC\ee\chem\slc02.i\L21028R1.b\8310S.m
Meth Date : 06-Nov-2001 10:46 lkeene Quant Type: ISTD
Cal Date : 28-OCT-2001 20:26 Cal File: PT2UGML.D
Als bottle: 14 QC Sample: MSD
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: navy50.sub
Target Version: 4.04 Sample Matrix: SOIL
Processing Host: SVHPLC

Concentration Formula: Amt * DF * 1/((Ws*(1-(M/100)))/1000)*Vf

Name	Value	Description
DF	2.000	Dilution Factor
Ws	32.700	Extracted weight
M	11.009	% Moisture
Vf	1.000	Final Volume

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	REL RT	SIGNAL	RESPONSE	(ug/ml)	(ug/kg)	TARGET RANGE	RATIO
* 1 Carbazole (ISTD)						CAS #: 86-74-8		
11.026	10.610	(1.000)	VWD1A	533544			80.00- 120.00	100.00(M)
11.101	10.610	(1.007)	ADC1A	2263948	10.0000		652.03- 978.05	424.32
2 Naphthalene						CAS #: 91-20-3		
12.186	11.770	(1.105)	VWD1A	21146	3.29054	226	80.00- 120.00	100.00(aMH)
12.363	11.770	(1.121)	ADC1A	59388	8.52772	586	82.40- 123.60	280.85
3 Acenaphthylene						CAS #: 208-96-8		
13.250	13.013	(1.202)	VWD1A	120802	25.5801	1760		(RM)
4 1-Methyl naphthalene						CAS #: 90-12-0		
13.876	13.633	(1.258)	VWD1A	21975	5.67017	390	80.00- 120.00	100.00(M)
13.974	13.633	(1.267)	ADC1A	122027	8.50814	585	296.60- 444.90	555.28

RT	EXP RT	REL RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	CONCENTRATIONS FINAL (ug/kg)	TARGET RANGE	RATIO
5 2-Methyl naphthalene						CAS #: 91-57-6		
14.213	13.973	(1.289)	VWD1A	137604	25.0775	1720	80.00- 120.00	100.00(RM)
14.299	13.973	(1.297)	ADC1A	85614	7.05789	485	191.55- 287.32	62.22
6 Acenaphthene						CAS #: 83-32-9		
14.580	14.310	(1.322)	VWD1A	17158	6.89939	474	80.00- 120.00	100.00(M)
14.624	14.310	(1.326)	ADC1A	187570	6.58042	452	964.12-1446.17	1093.19
7 Fluorene						CAS #: 86-73-7		
14.893	14.680	(1.351)	VWD1A	301323	10.4964	721	80.00- 120.00	100.00(R)
14.964	14.680	(1.357)	ADC1A	22993	6.61247	454	9.06- 13.59	7.63
8 Phenanthrene						CAS #: 85-01-8		
15.693	15.500	(1.423)	VWD1A	1306807	16.3653	1120	80.00- 120.00	100.00(RM)
15.789	15.500	(1.432)	ADC1A	2619957	34.5734	2380	78.58- 117.87	200.49
10 Fluoranthene						CAS #: 206-44-0		
17.250	17.066	(1.564)	VWD1A	587732	30.7882	2120	80.00- 120.00	100.00(RM)
17.338	17.066	(1.572)	ADC1A	2179063			6.36- 9.54	370.76
11 Pyrene						CAS #: 129-00-0		
17.693	17.606	(1.605)	VWD1A	80799	5.51492	379	80.00- 120.00	100.00(MH)
17.838	17.606	(1.618)	ADC1A	953541	4.87219	335	930.64-1395.96	1180.14
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.736	18.593	(1.699)	VWD1A	2304565	135.780	9330	80.00- 120.00	100.00(ARM)
18.814	18.593	(1.706)	ADC1A	9321050	20.0642	1380	2246.35-3369.53	404.46
13 Benzo(a)Anthracene						CAS #: 56-55-3		
19.570	19.426	(1.775)	VWD1A	170993	3.81825	262	80.00- 120.00	100.00(MH)
19.606	19.426	(1.778)	ADC1A	1500244	3.11700	214	881.58-1322.37	877.37
14 Chrysene						CAS #: 218-01-9		
19.846	19.820	(1.800)	VWD1A	1439875	22.5040	1550	80.00- 120.00	100.00(RM)
19.923	19.820	(1.807)	ADC1A	2390026	15.6842	1080	190.14- 285.21	165.99
15 Benzo(b)Fluoranthene						CAS #: 205-99-2		
21.313	21.253	(1.933)	VWD1A	359296	7.27800	500	80.00- 120.00	100.00(M)
21.413	21.253	(1.942)	ADC1A	999908	77.3577	5320	20.85- 31.28	278.30
16 Benzo(k)Fluoranthene						CAS #: 207-08-9		
21.933	21.883	(1.989)	VWD1A	217335	5.75947	396	80.00- 120.00	100.00(MH)
22.034	21.883	(1.998)	ADC1A	217864	8.83173	607	52.76- 79.15	100.24
17 Benzo(a)pyrene						CAS #: 50-32-8		
22.506	22.476	(2.041)	VWD1A	177859	4.04239	278	80.00- 120.00	100.00(M)

RT	EXP RT	REL RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	CONCENTRATIONS FINAL (ug/kg)	TARGET RANGE	RATIO
17 Benzo(a)pyrene (continued)								
22.603	22.476	(2.050)	ADC1A	979479	13.3258	916	138.13- 207.19	550.71
18 Dibenz(ah)Anthracene						CAS #: 53-70-3		
23.506	23.493	(2.132)	VWD1A	50613	5.17776	356	80.00- 120.00	100.00(M)
23.599	23.493	(2.140)	ADC1A	514799	4.40944	303	949.04-1423.56	1017.13
19 Benzo(ghi)Perylene						CAS #: 191-24-2		
24.220	24.226	(2.196)	VWD1A	34000	2.04318	140	80.00- 120.00	100.00(M)
24.331	24.226	(2.207)	ADC1A	86334	2.56146	176	155.32- 232.98	253.92
20 Indeno(123cd)Pyrene						CAS #: 193-39-5		
24.690	24.703	(2.239)	VWD1A	116169	2.76897	190	80.00- 120.00	100.00(M)
24.719	24.703	(2.242)	ADC1A	93326			0.00- 0.00	80.34

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-9D2.D
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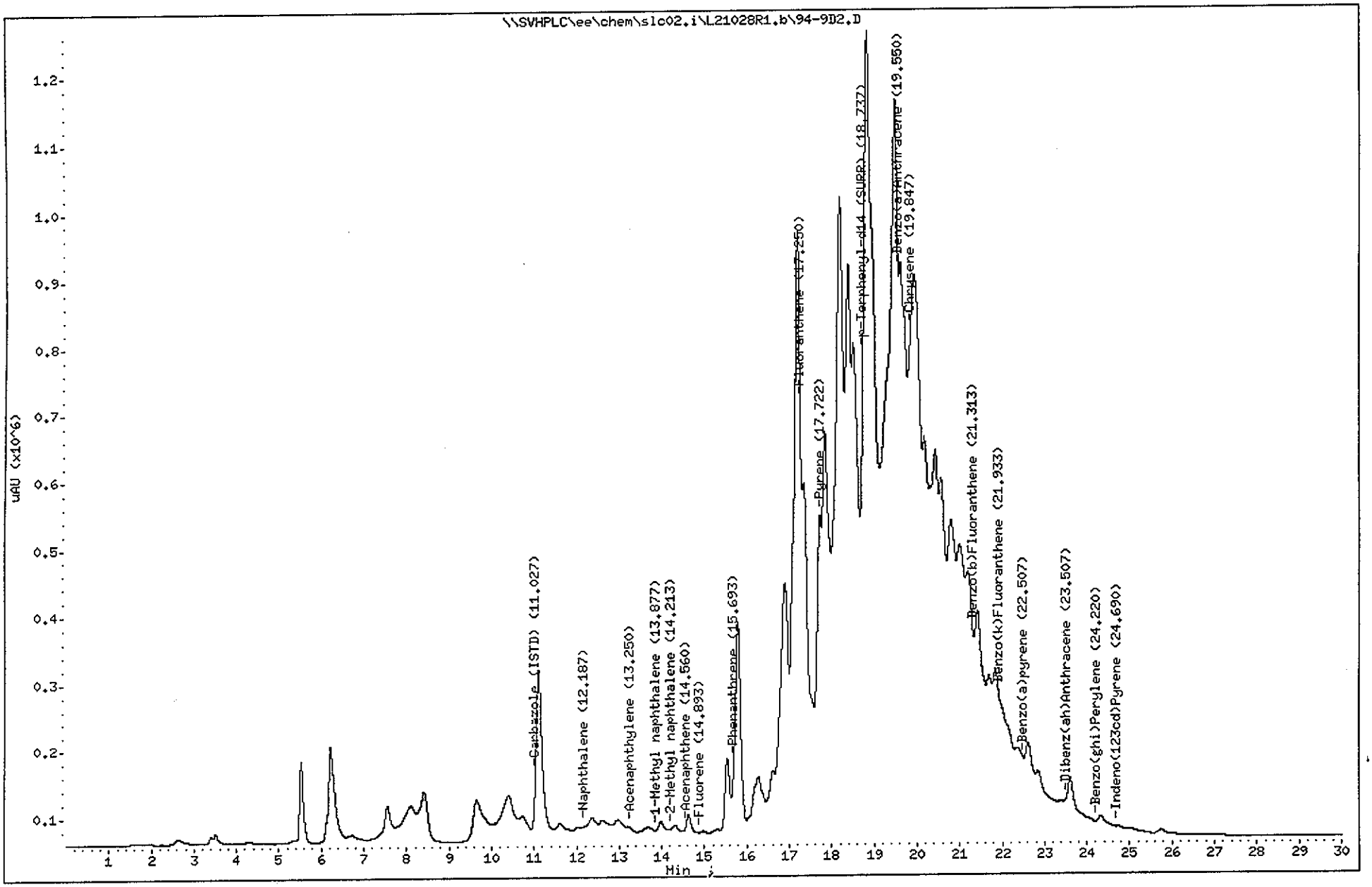
Client ID: 062B101S101801DLMSD
Sample Info: 211009409

Instrument: slc02.i

Operator: rood
Column diameter: 4.60

Column phase: Vydac201TP54



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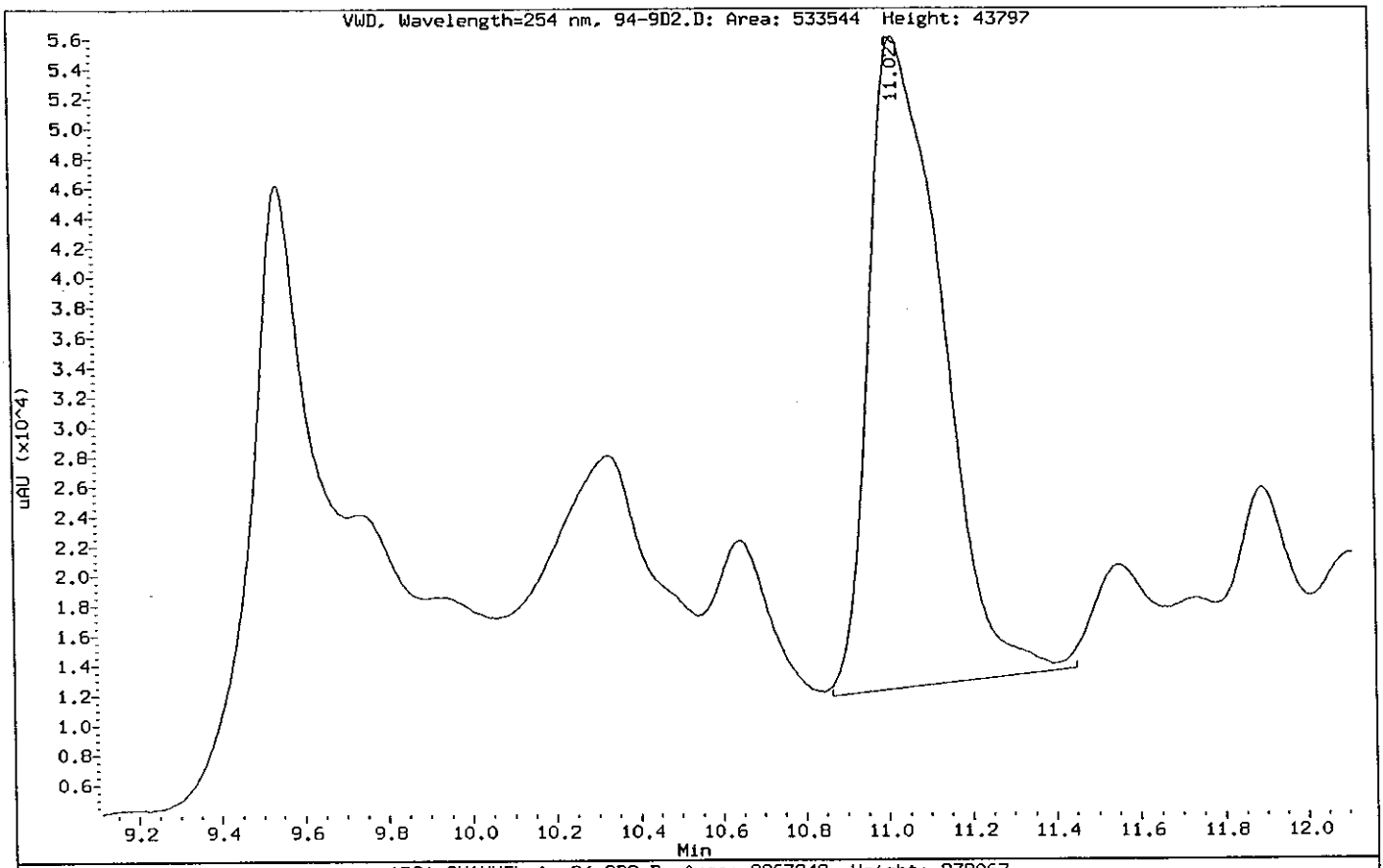
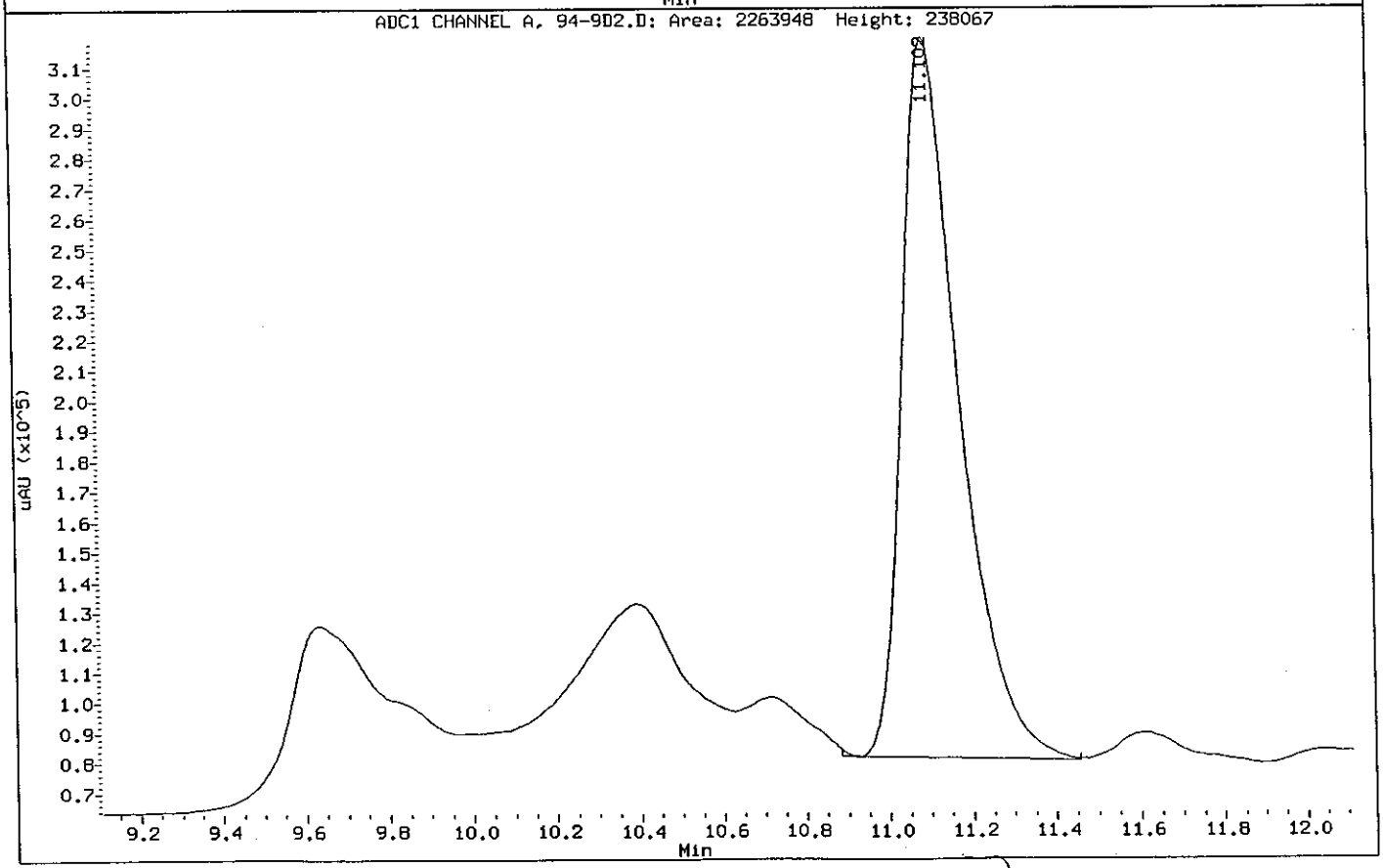
Injection Date: 29-OCT-2001 17:08
Instrument: slc02.i
Client Sample ID: 062B101S101801DLMSD

Compound: Carbazole (ISTD)
CAS Number: 86-74-8





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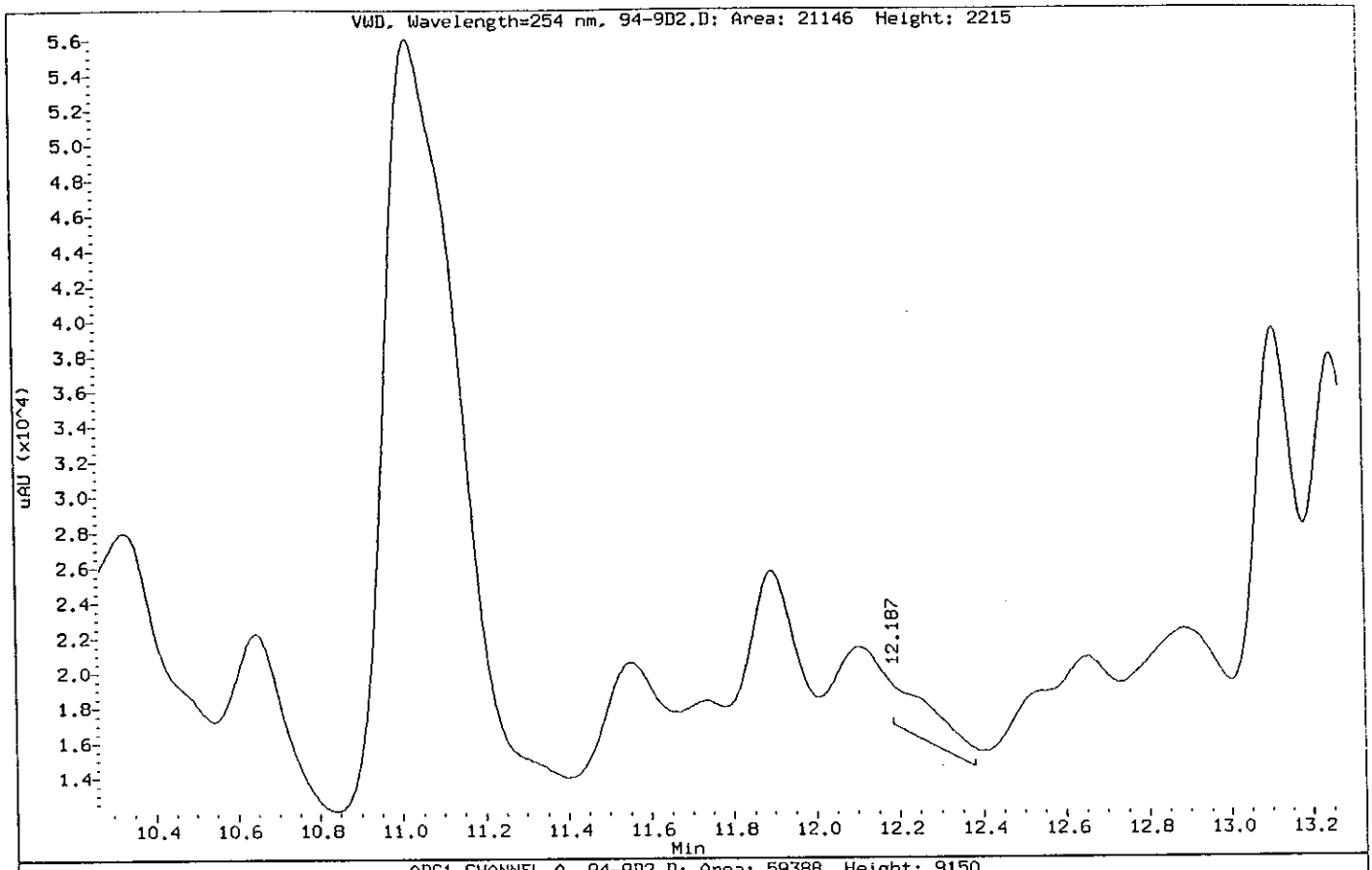
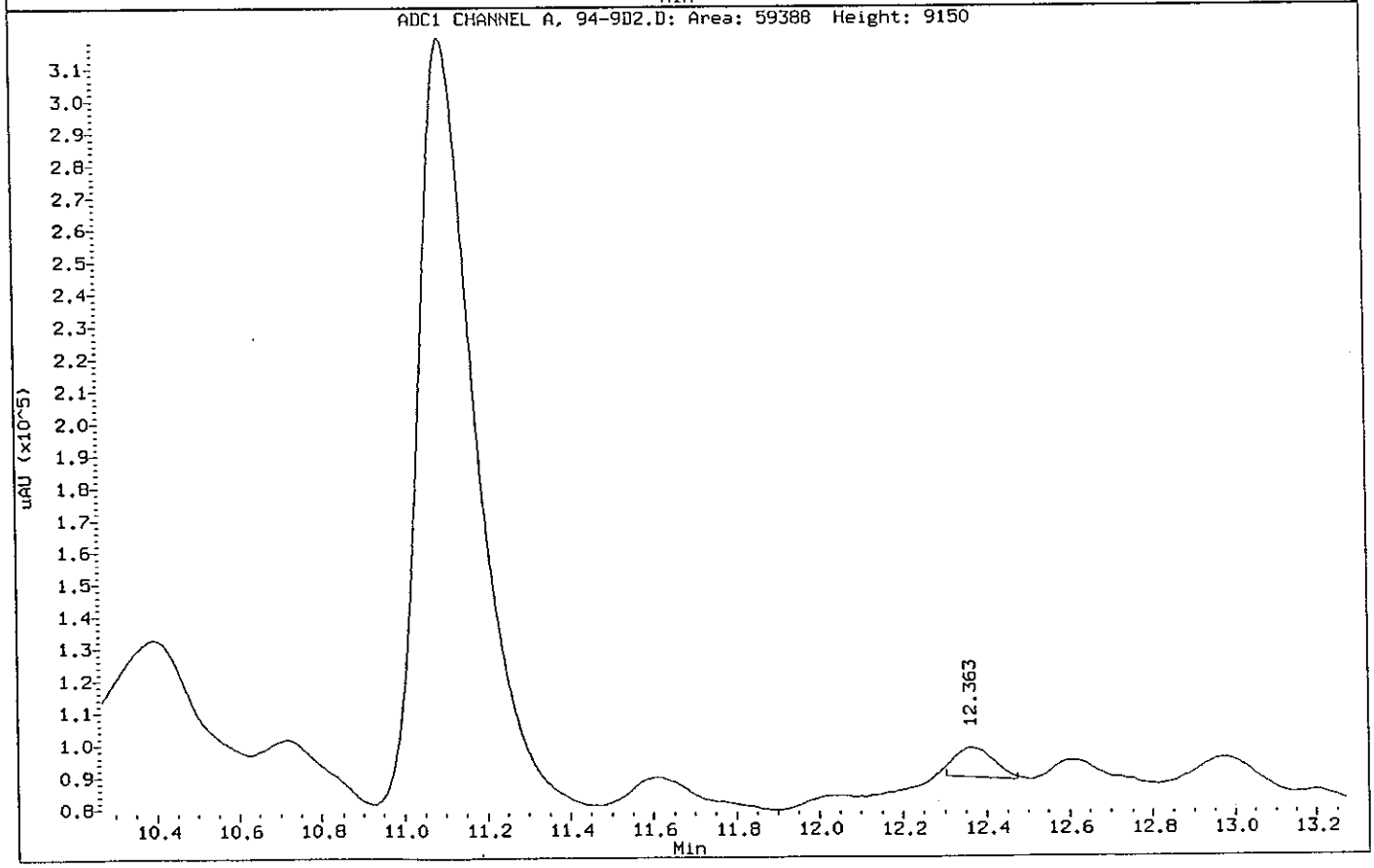
Compound: Naphthalene
CAS Number: 91-20-3





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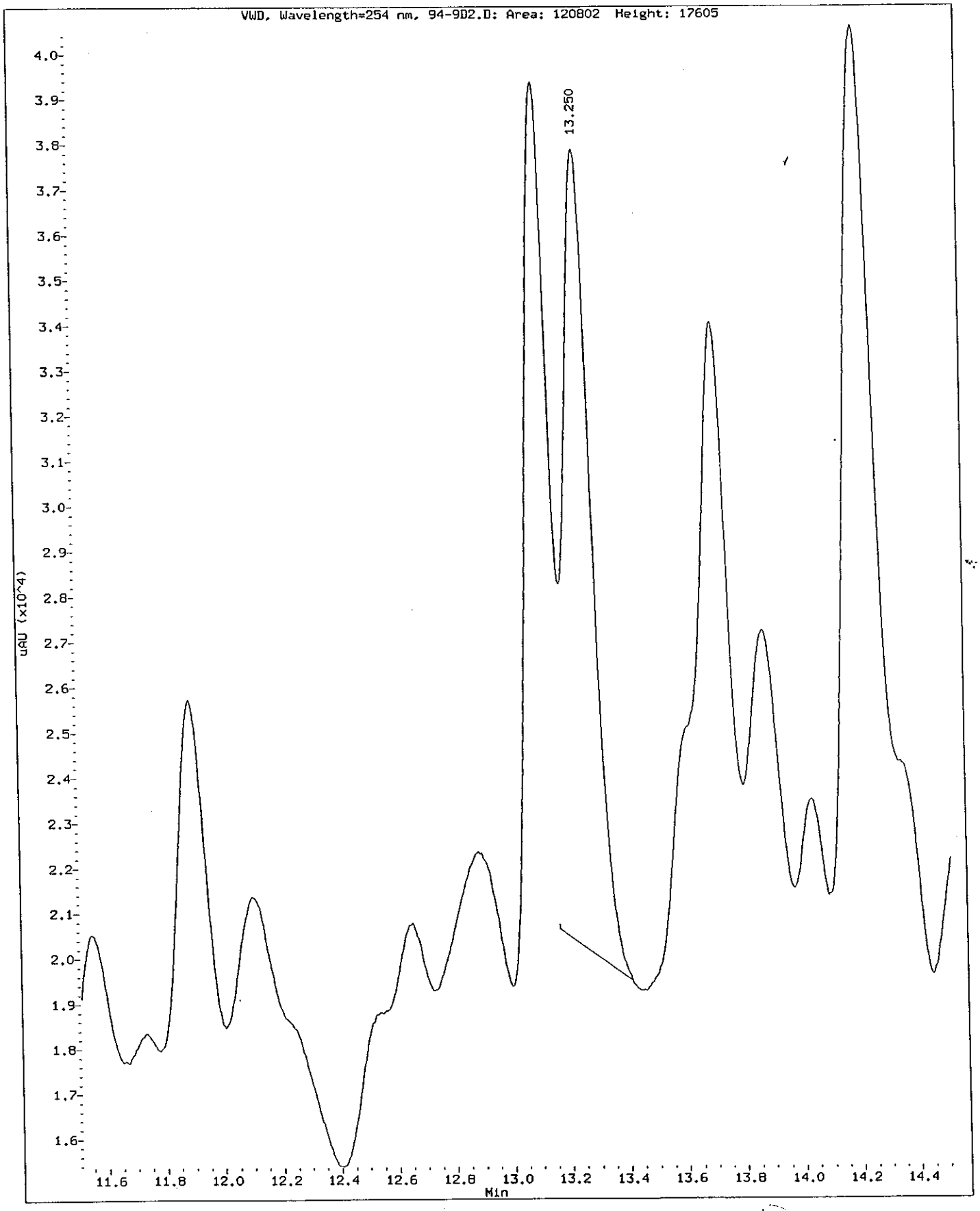
Compound: Acenaphthylene
CAS Number: 208-96-8



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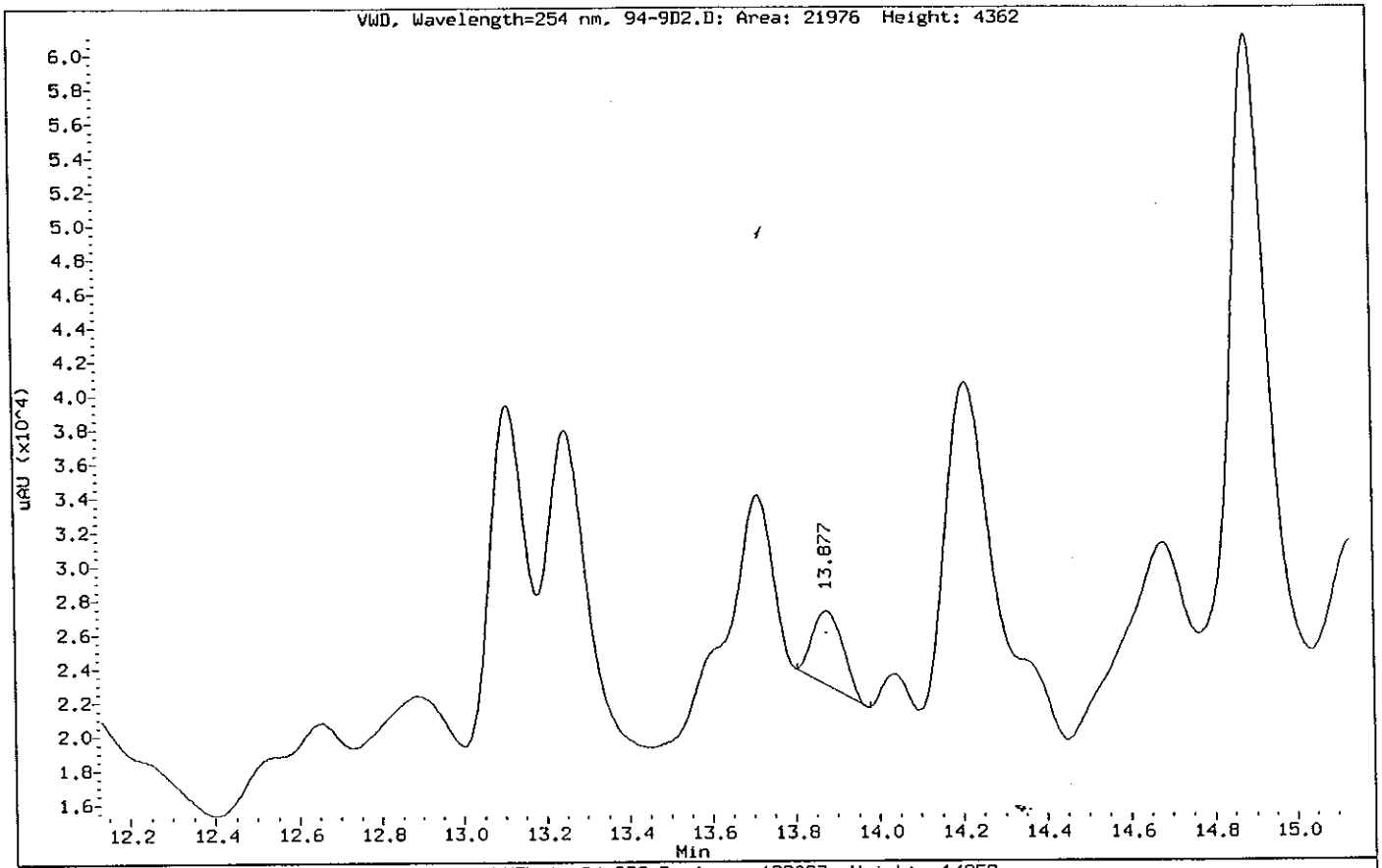
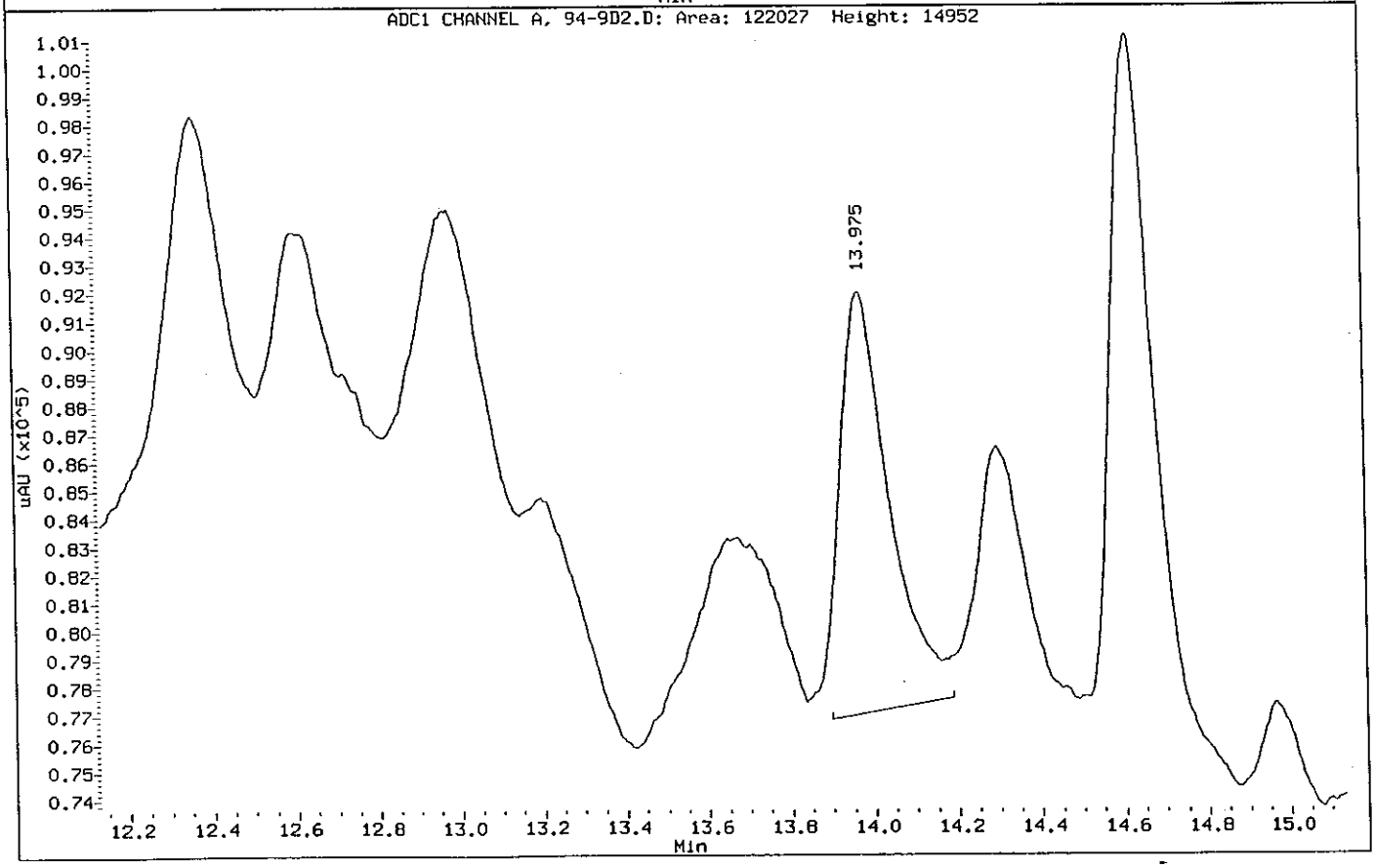
Compound: 1-Methyl naphthalene
CAS Number: 90-12-0





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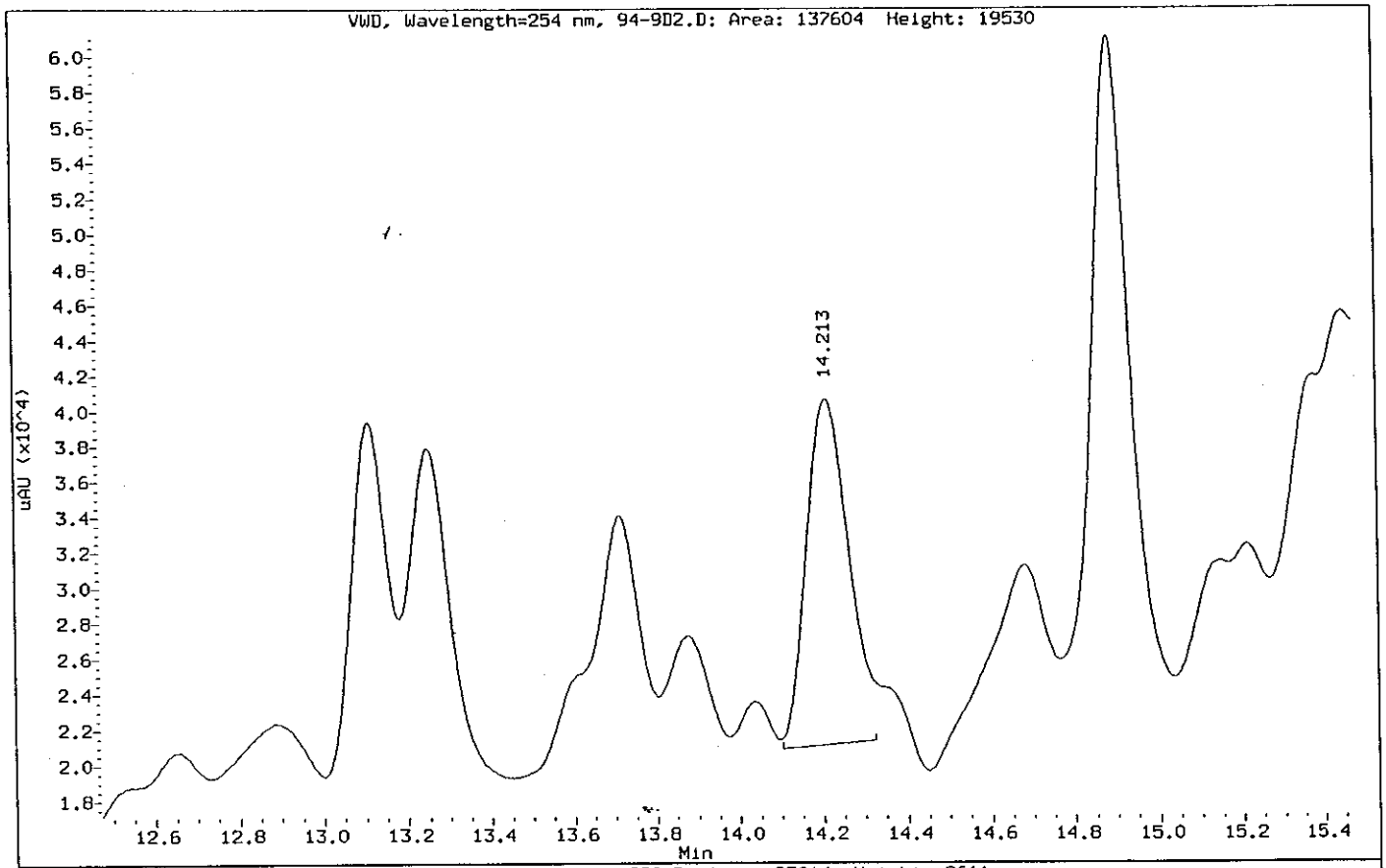
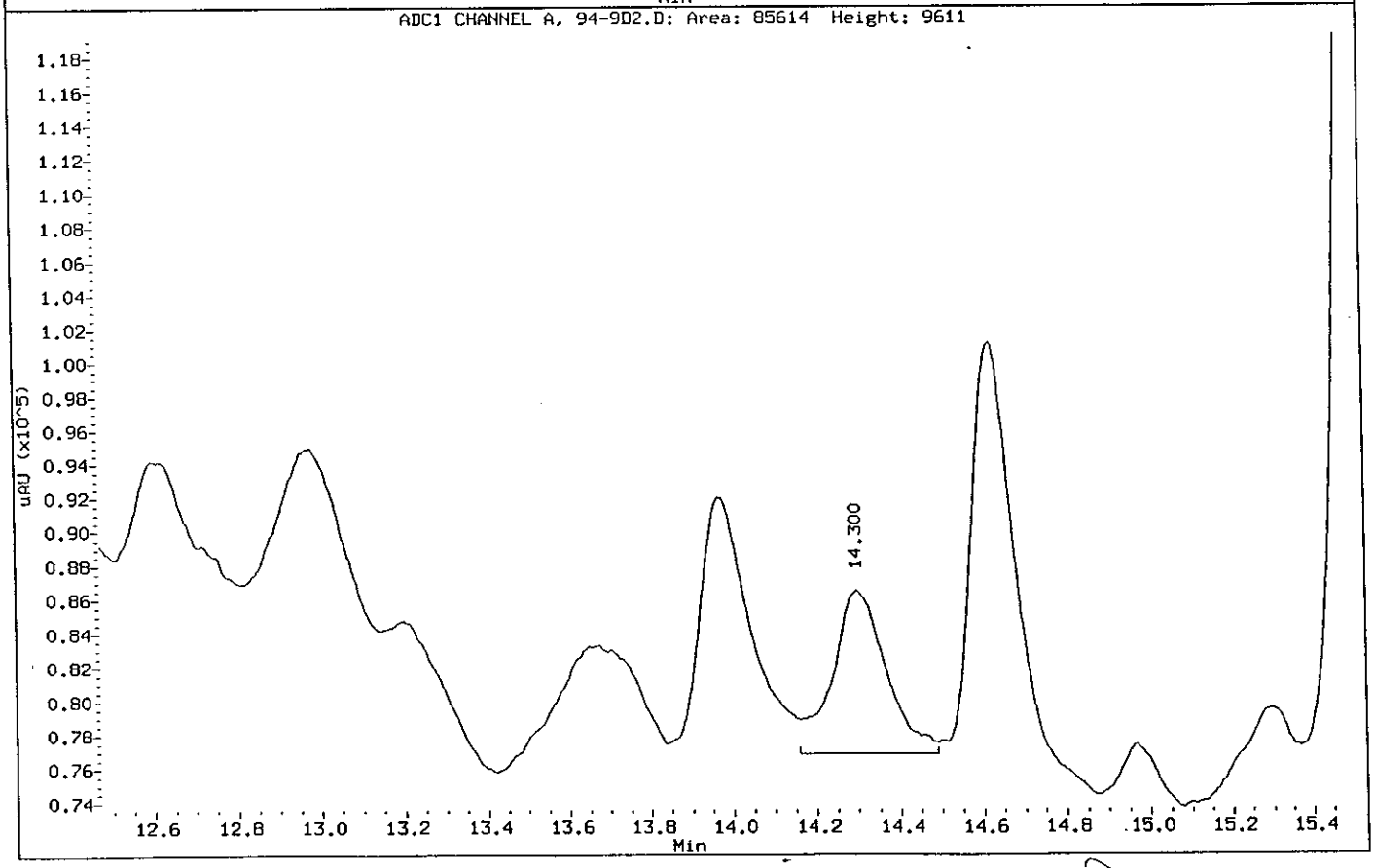
Compound: 2-Methyl naphthalene
CAS Number: 91-57-6





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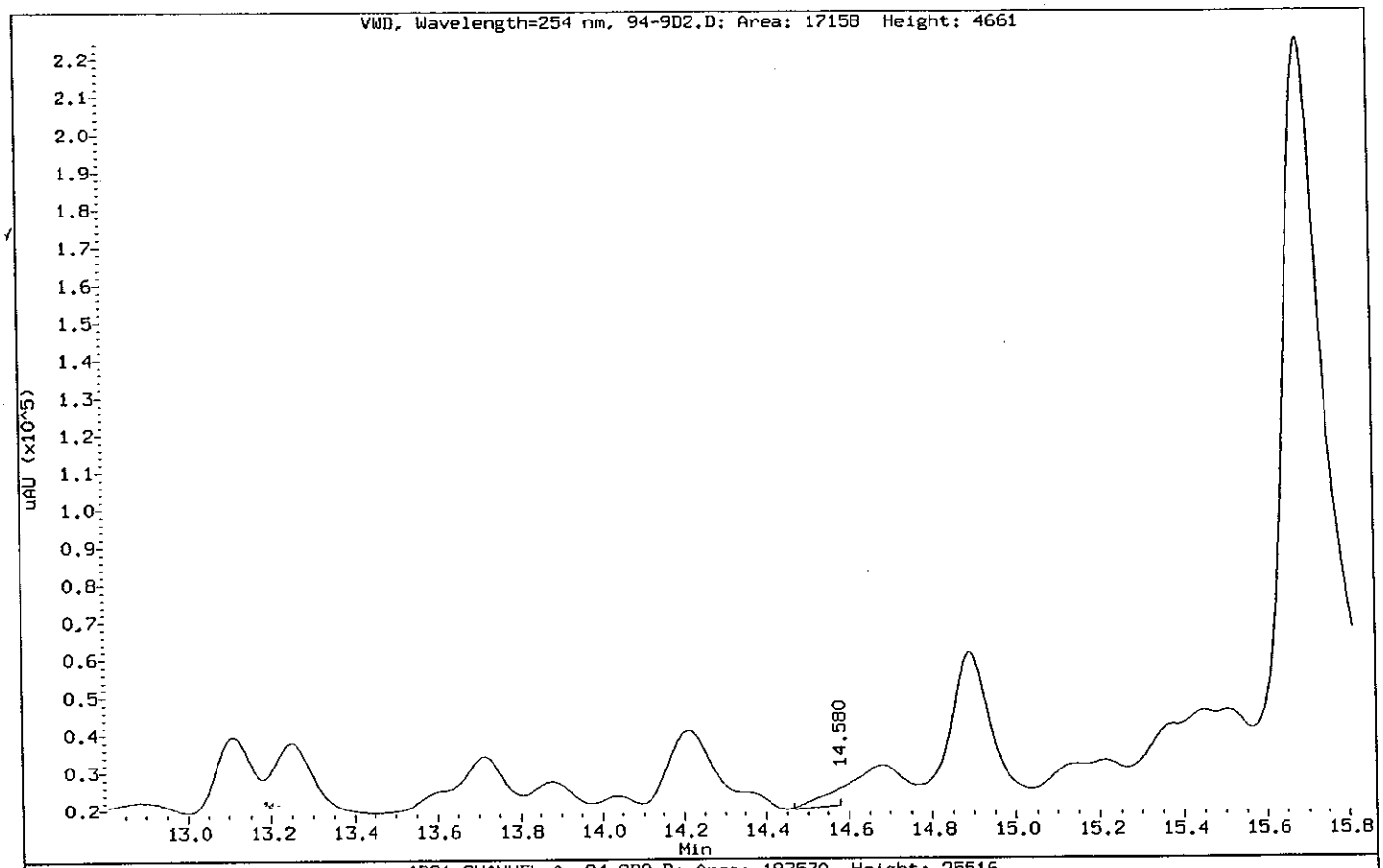
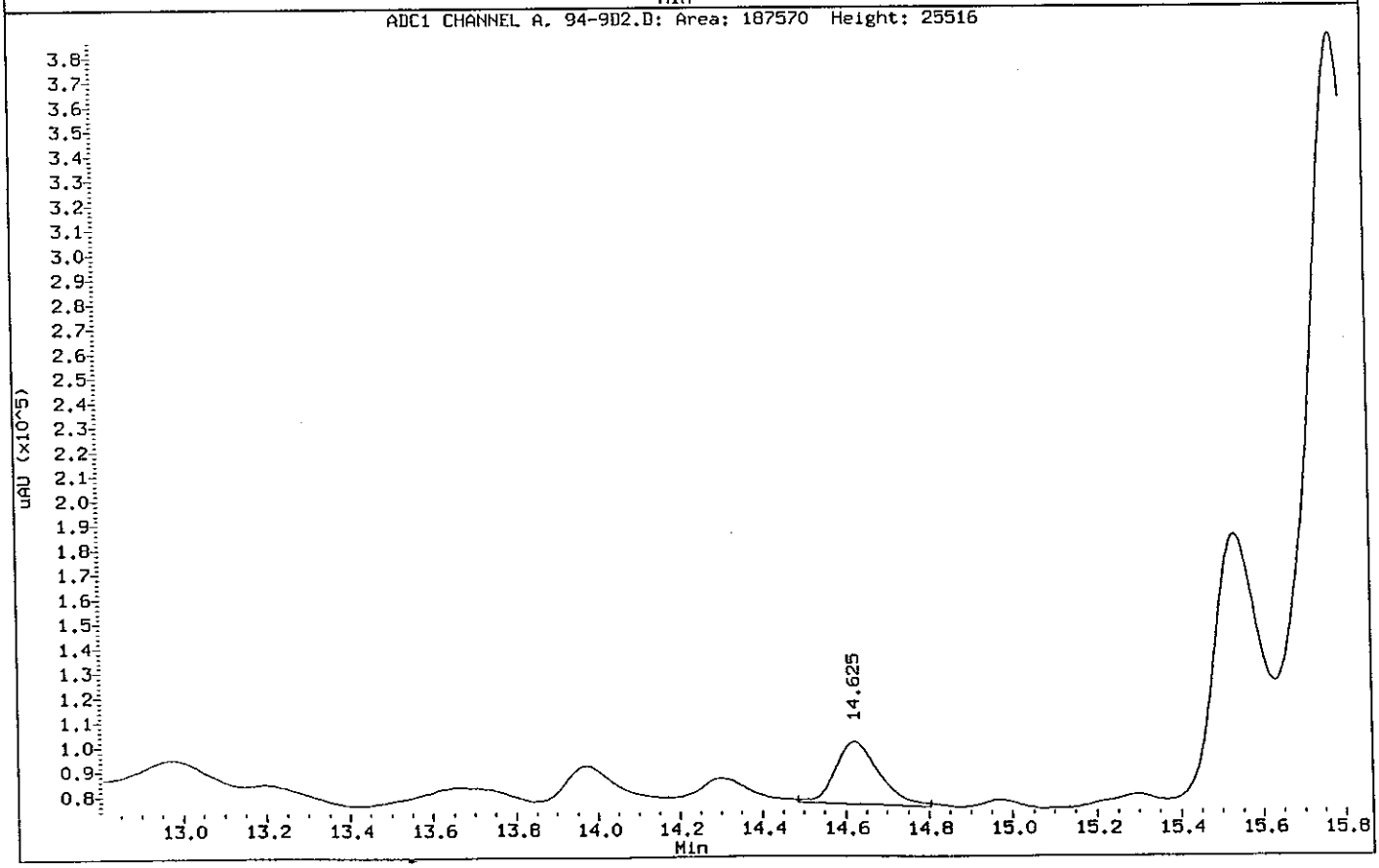
Compound: Acenaphthene
CAS Number: 83-32-9





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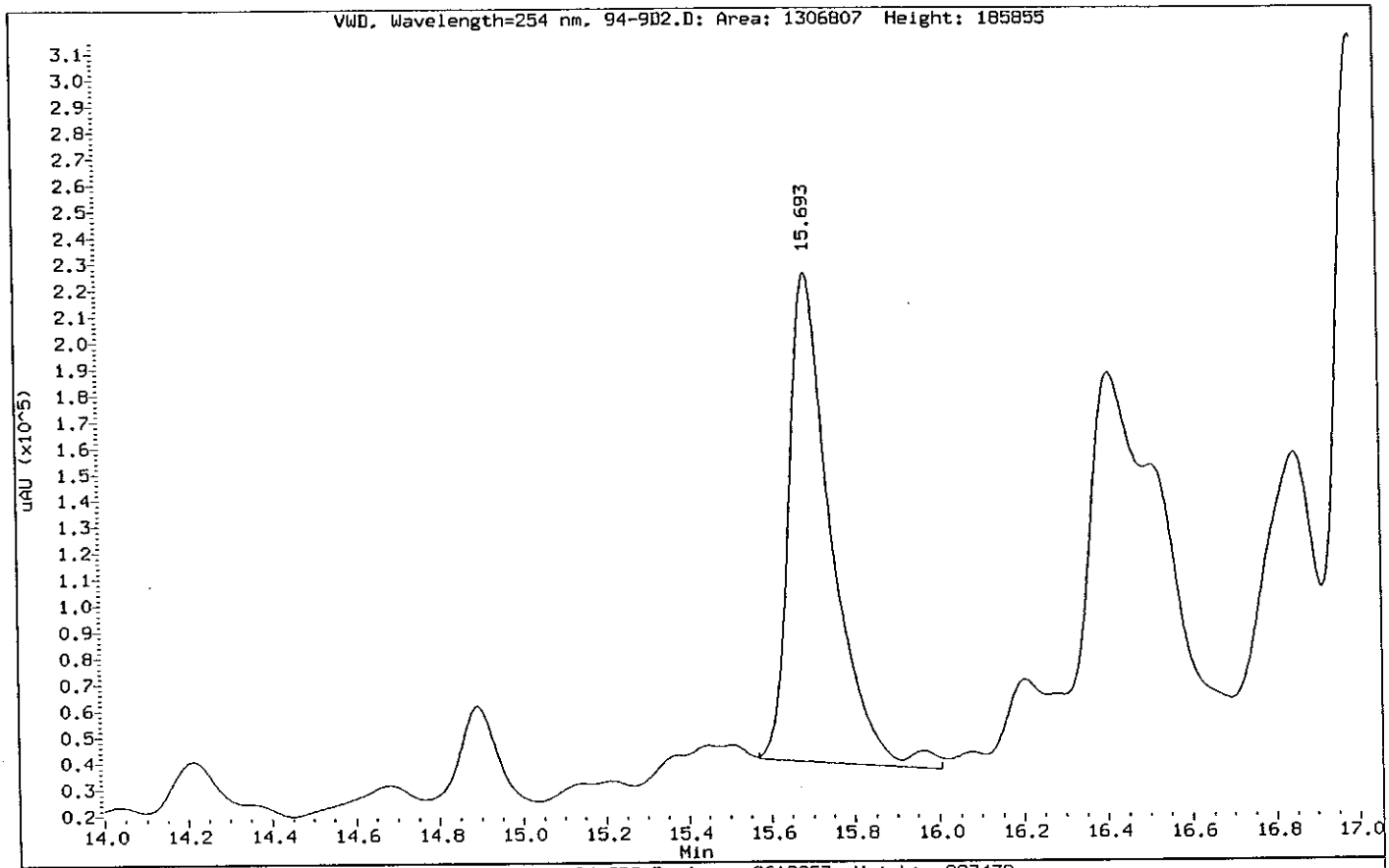
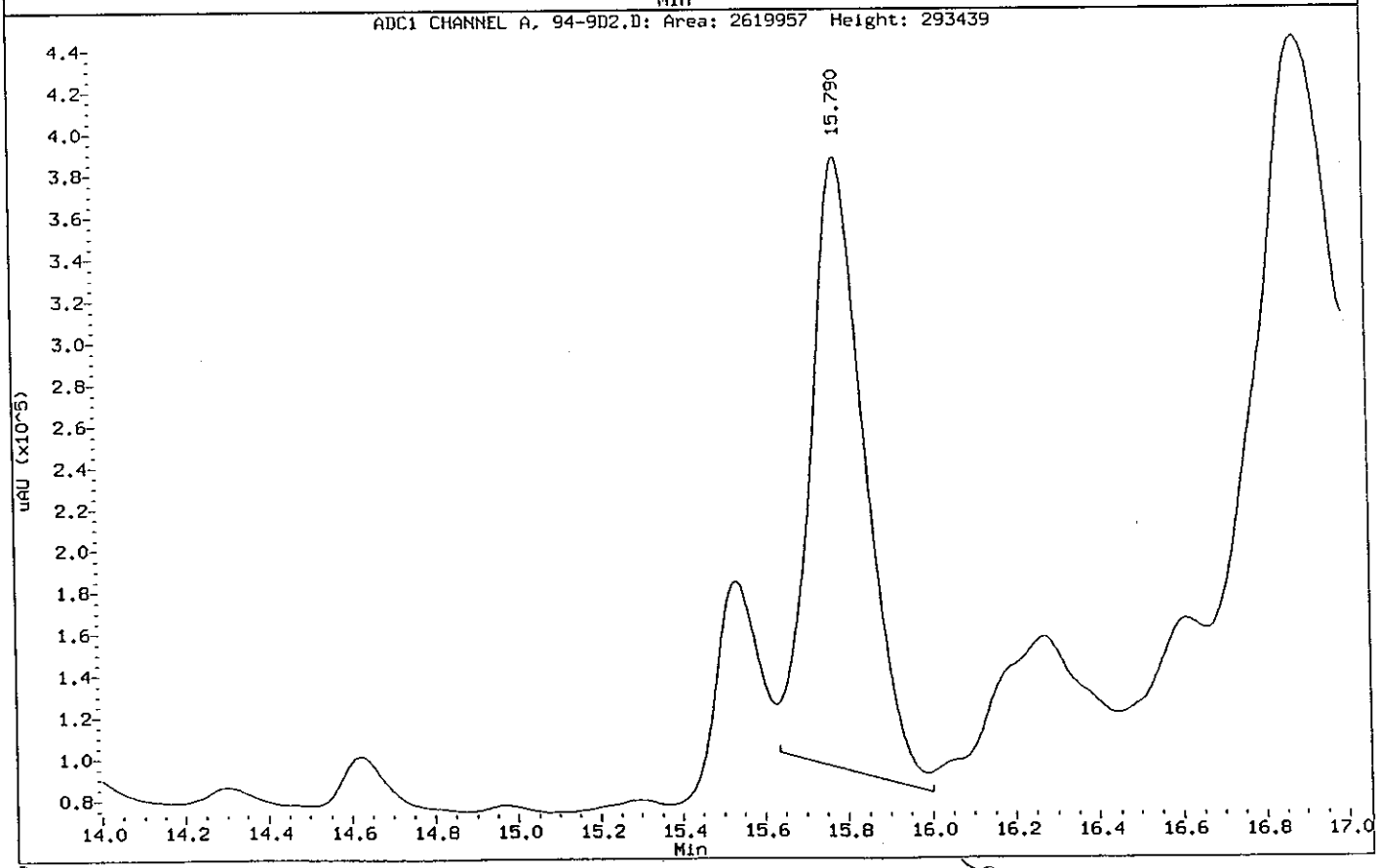
Compound: Phenanthrene
CAS Number: 85-01-8





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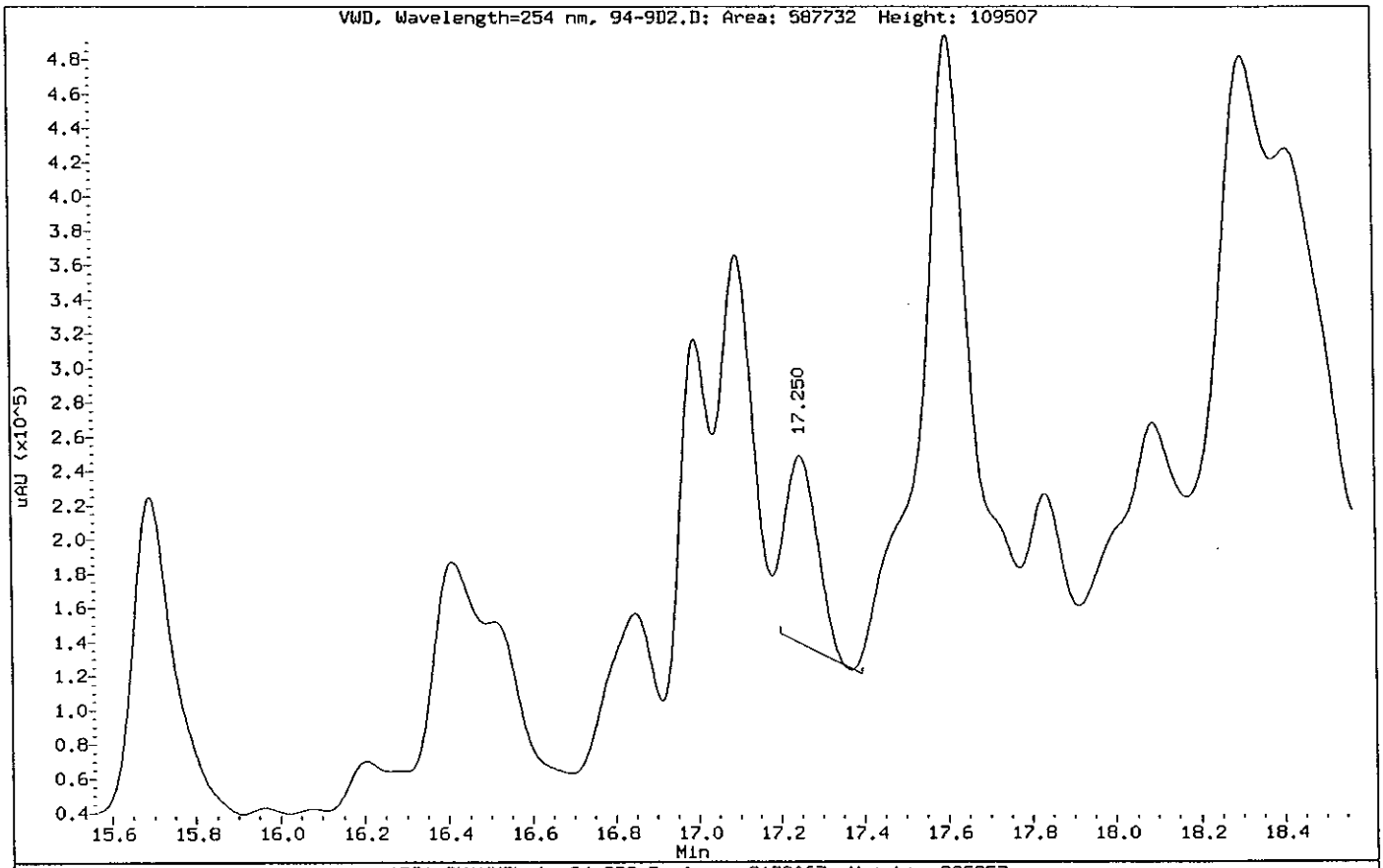
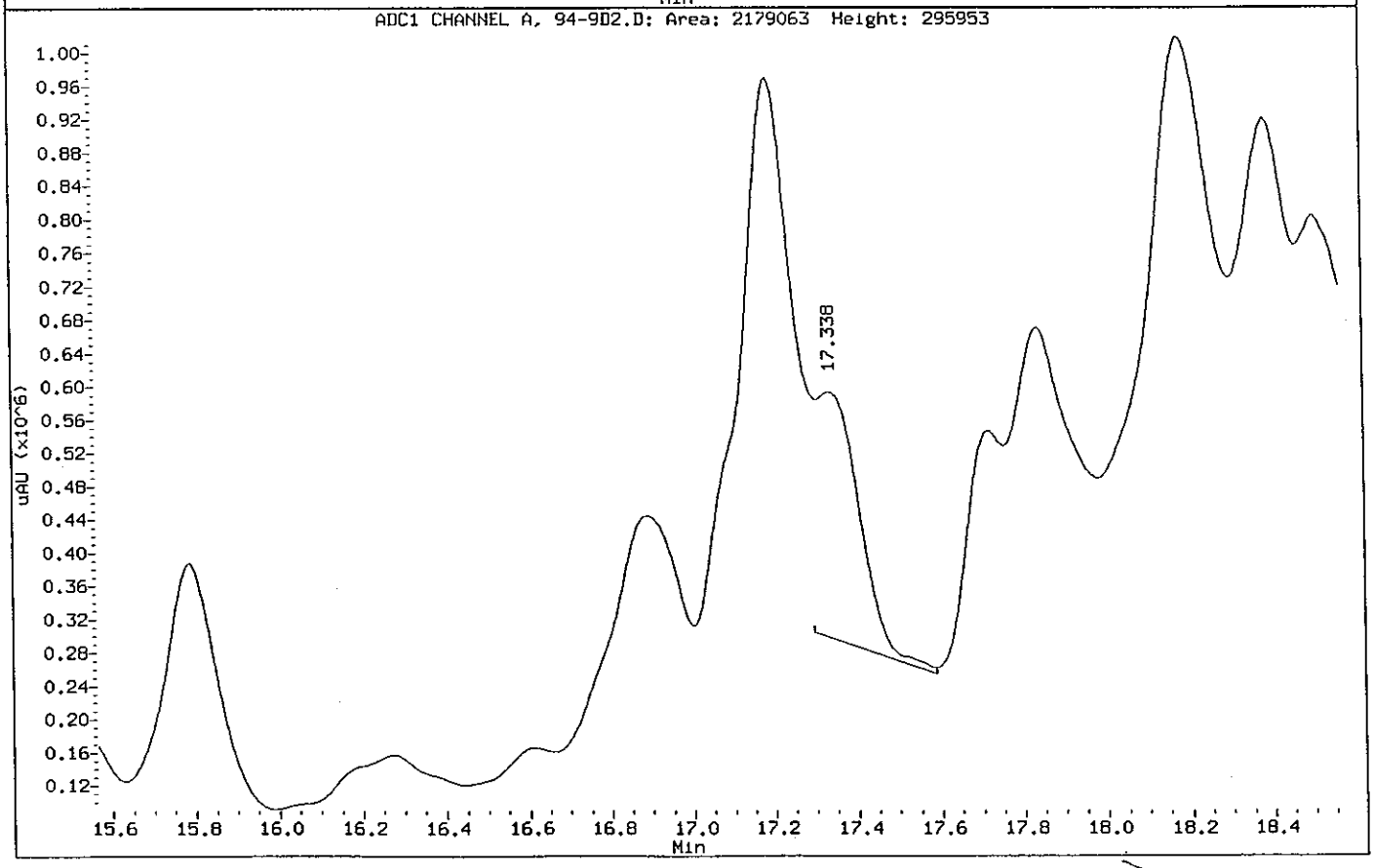
Compound: Fluoranthene
CAS Number: 206-44-0





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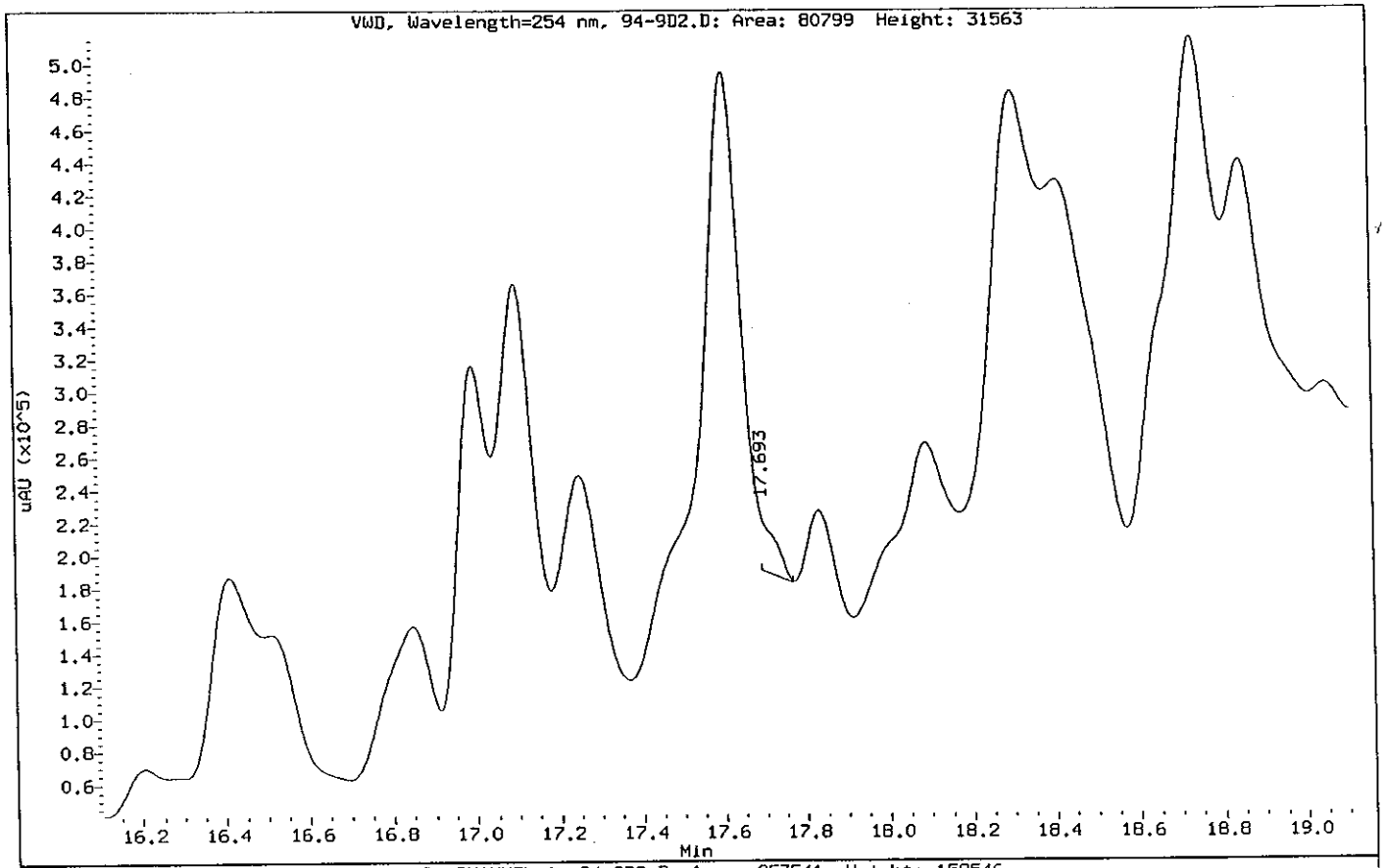
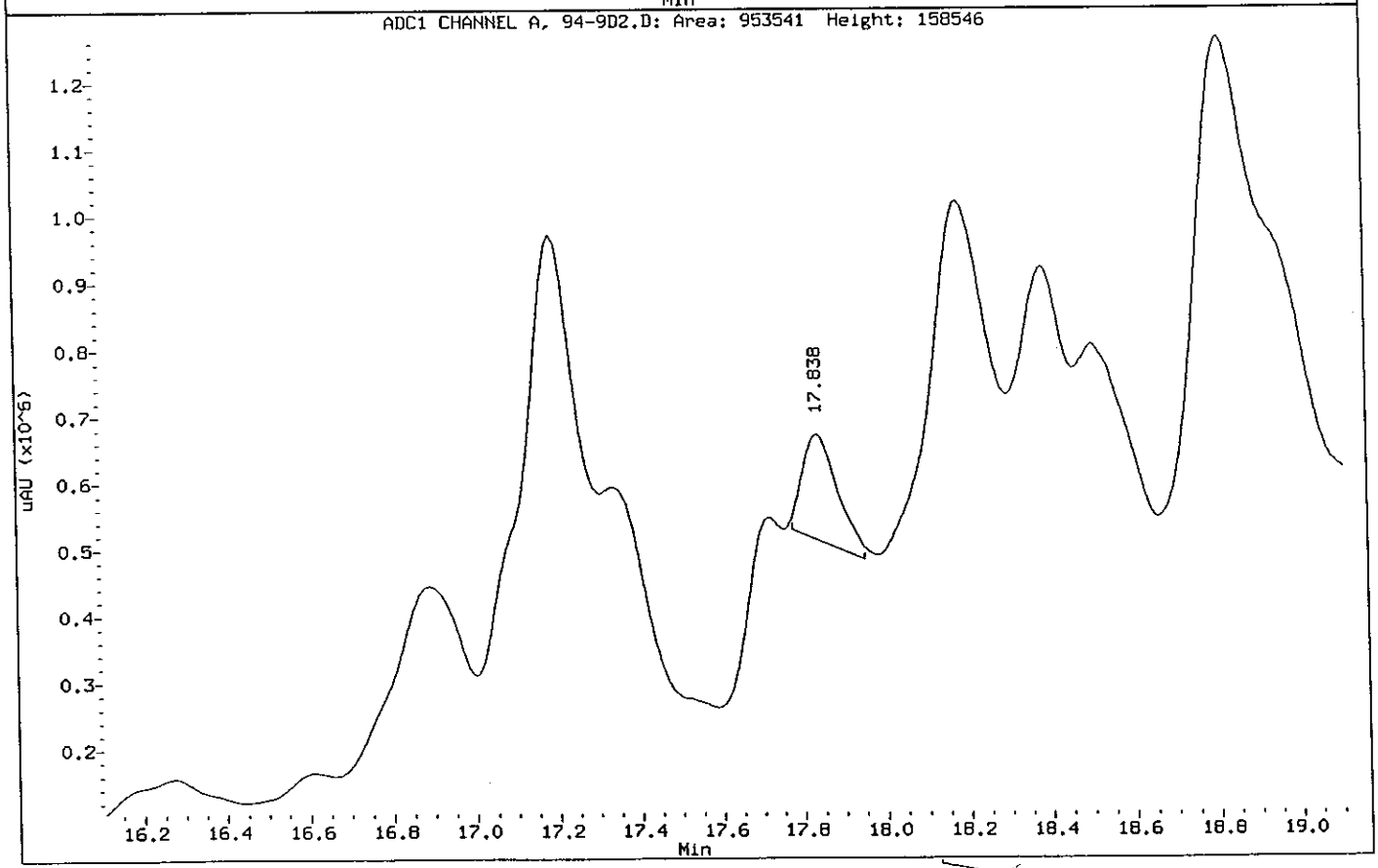
Compound: Pyrene
CAS Number: 129-00-0





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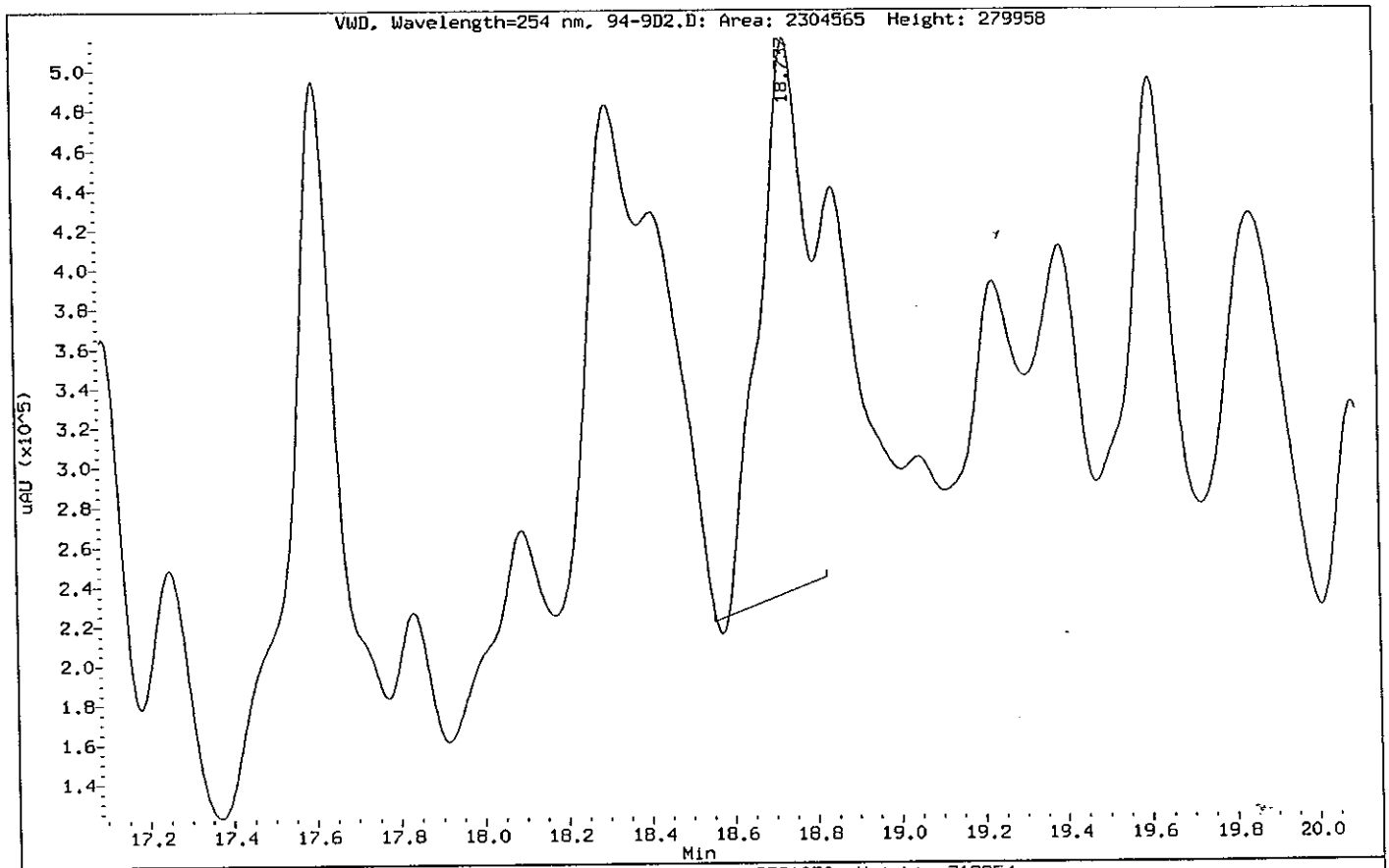
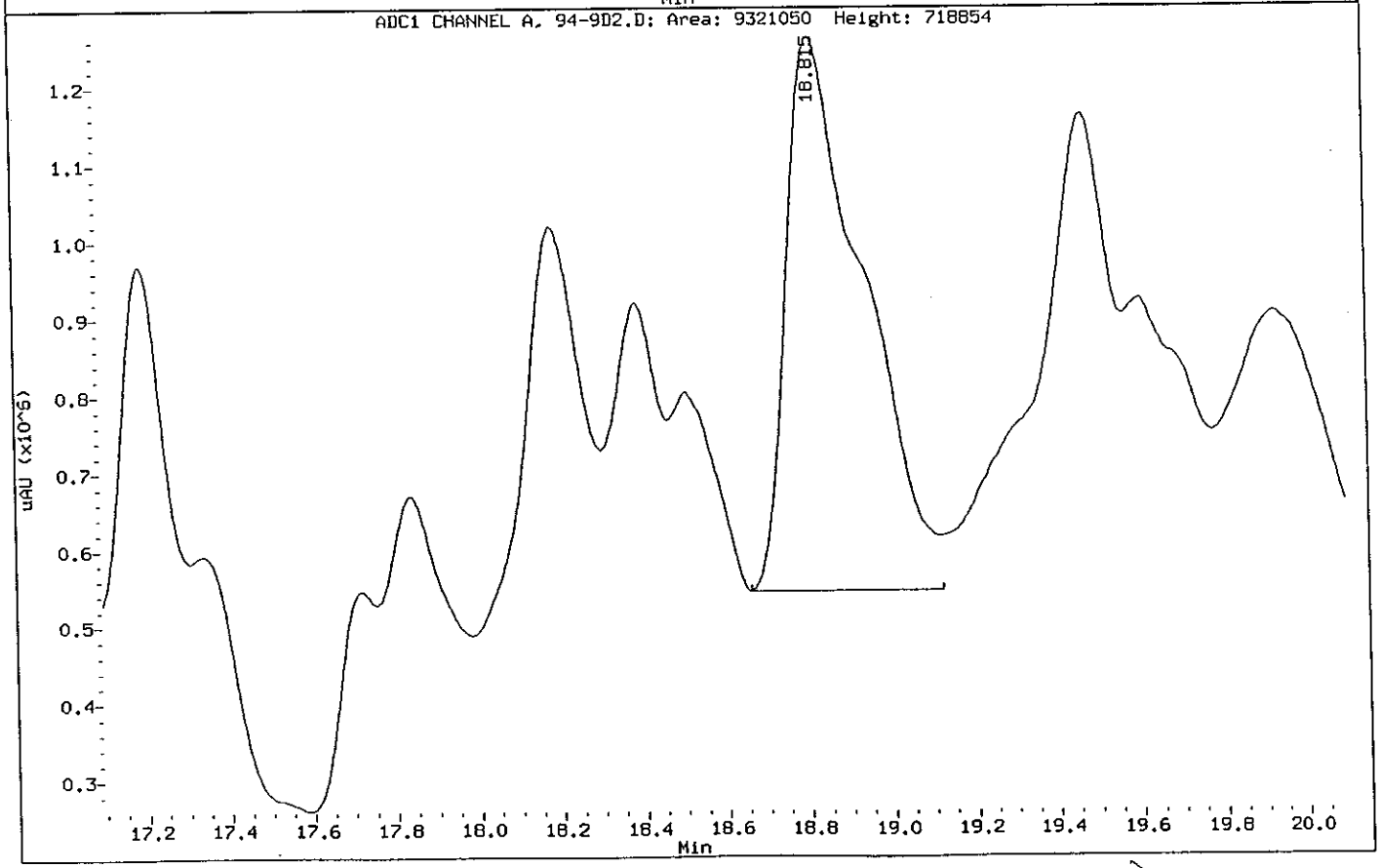
Compound: p-Terphenyl-d14 (SURR)
CAS Number: 1718-51-0





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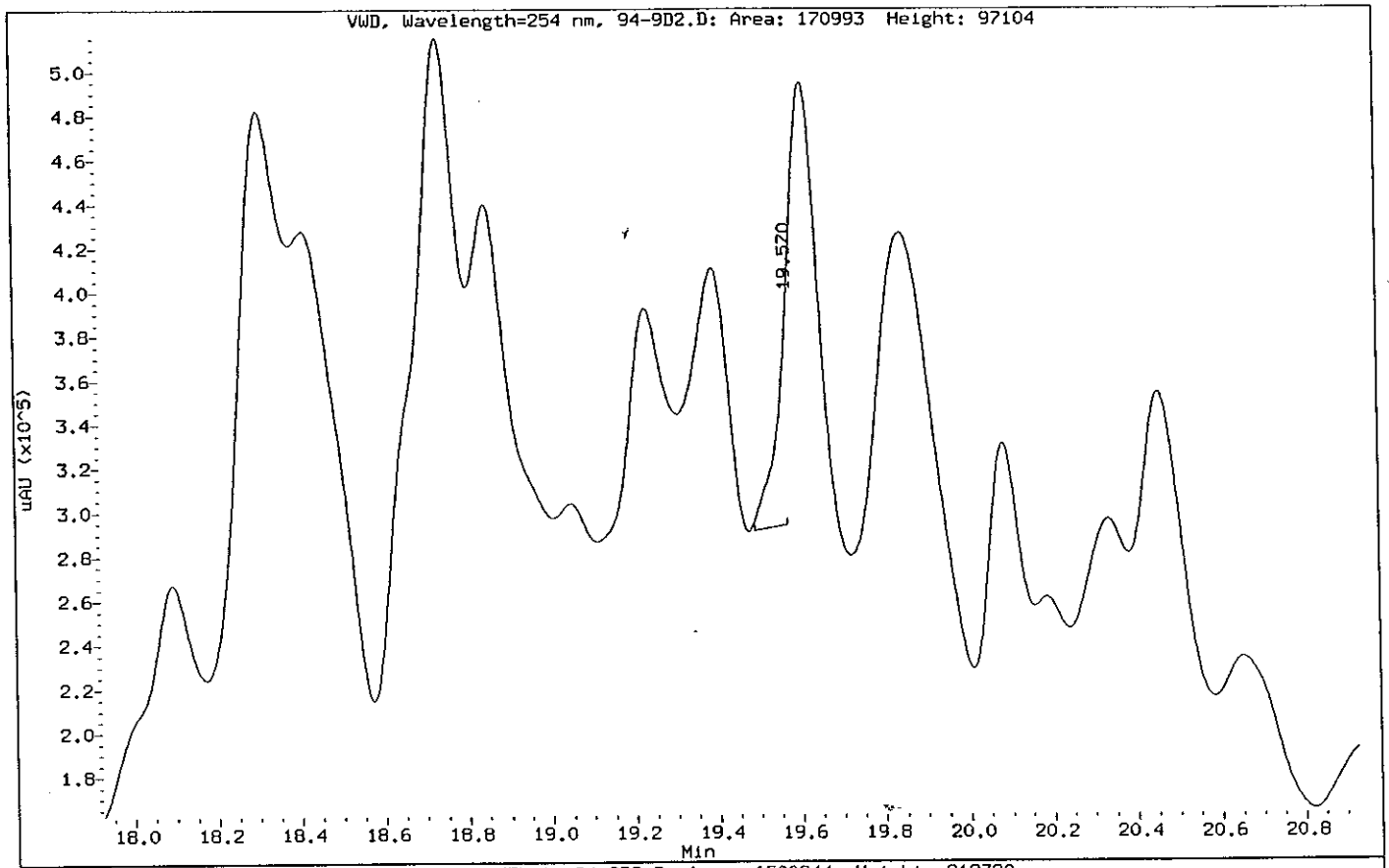
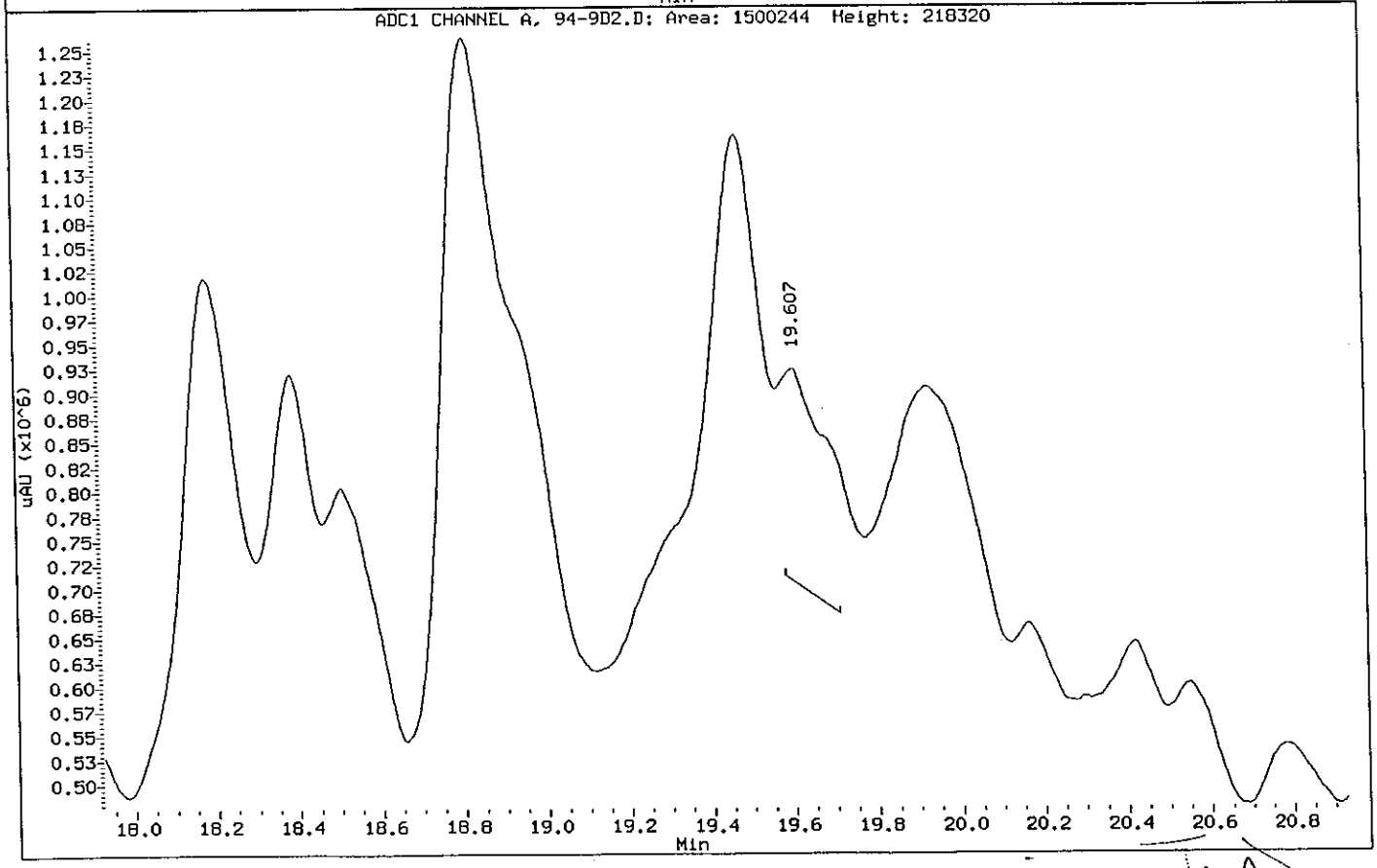
Client Sample ID: 062B101S101801DLMSD

Compound: Benzo(a)Anthracene
CAS Number: 56-55-3





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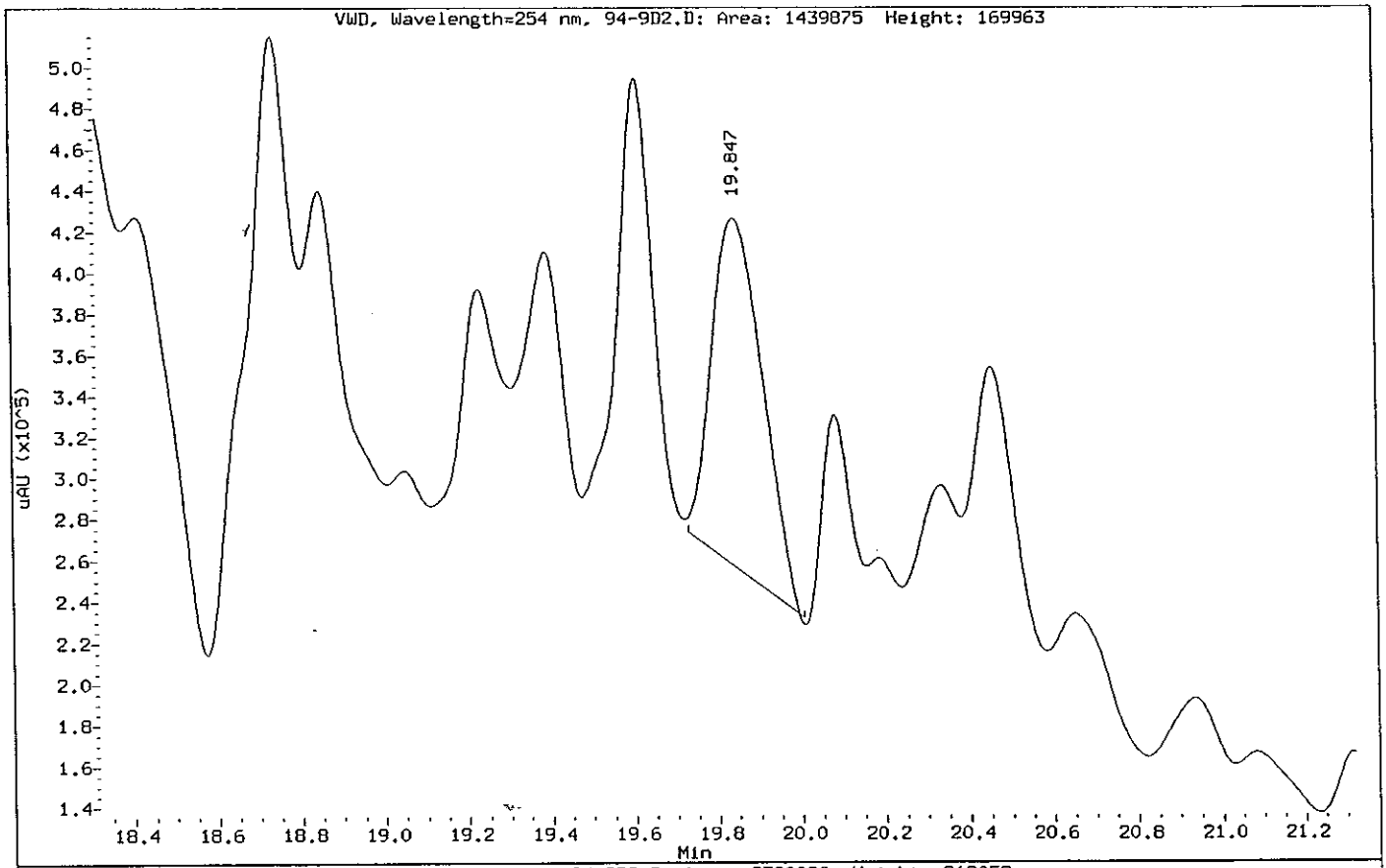
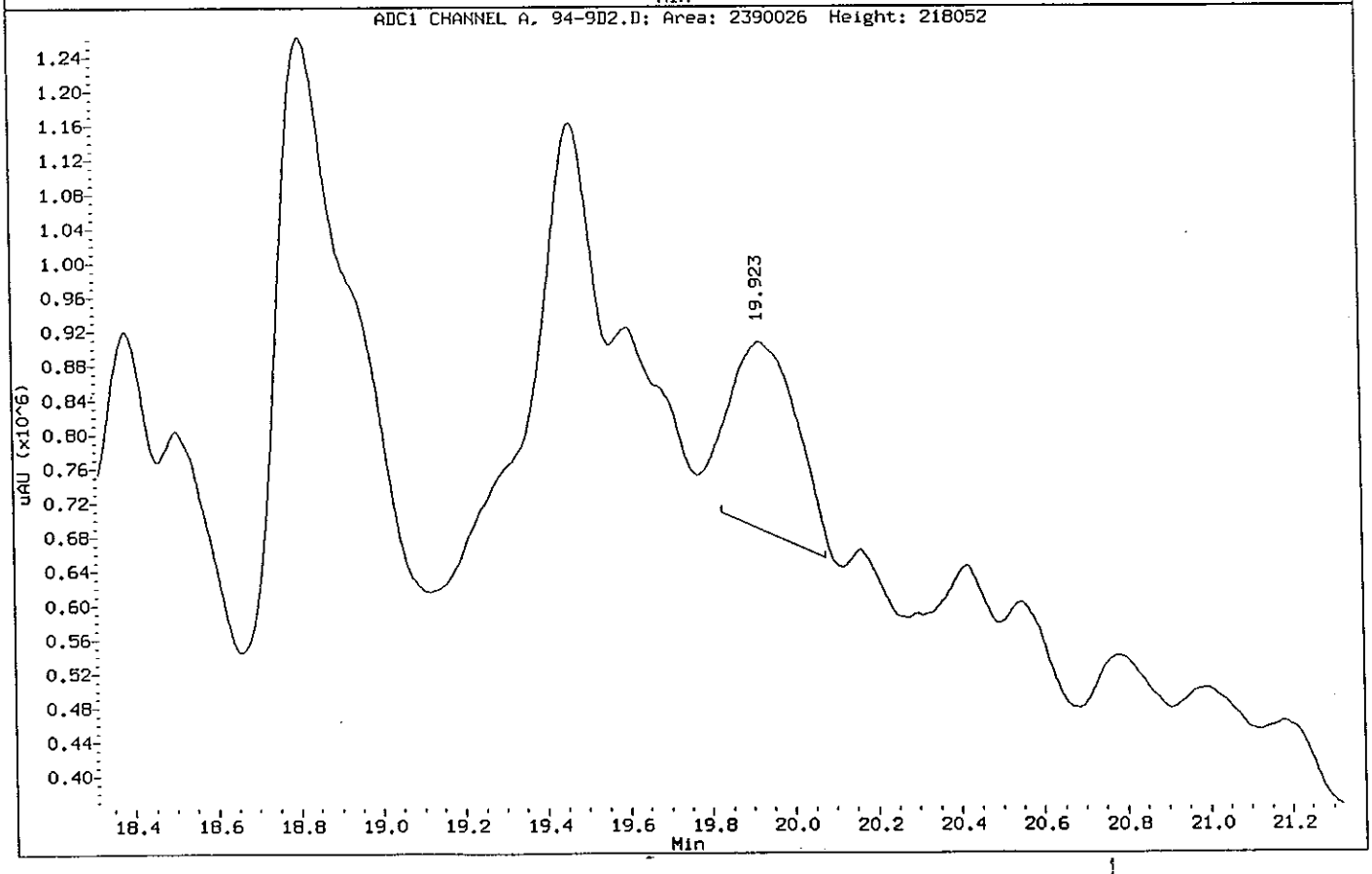
Compound: Chrysene
CAS Number: 218-01-9





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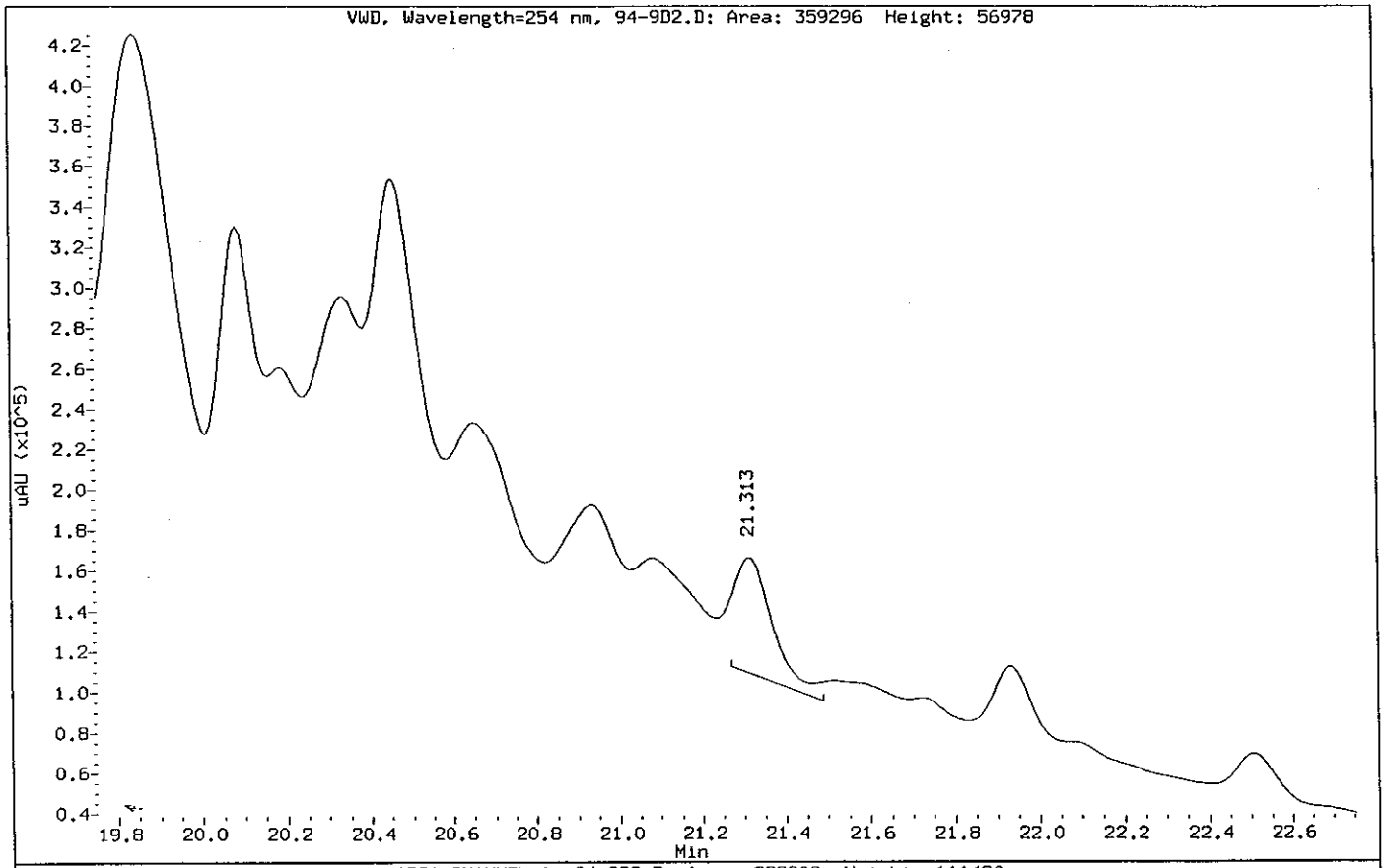
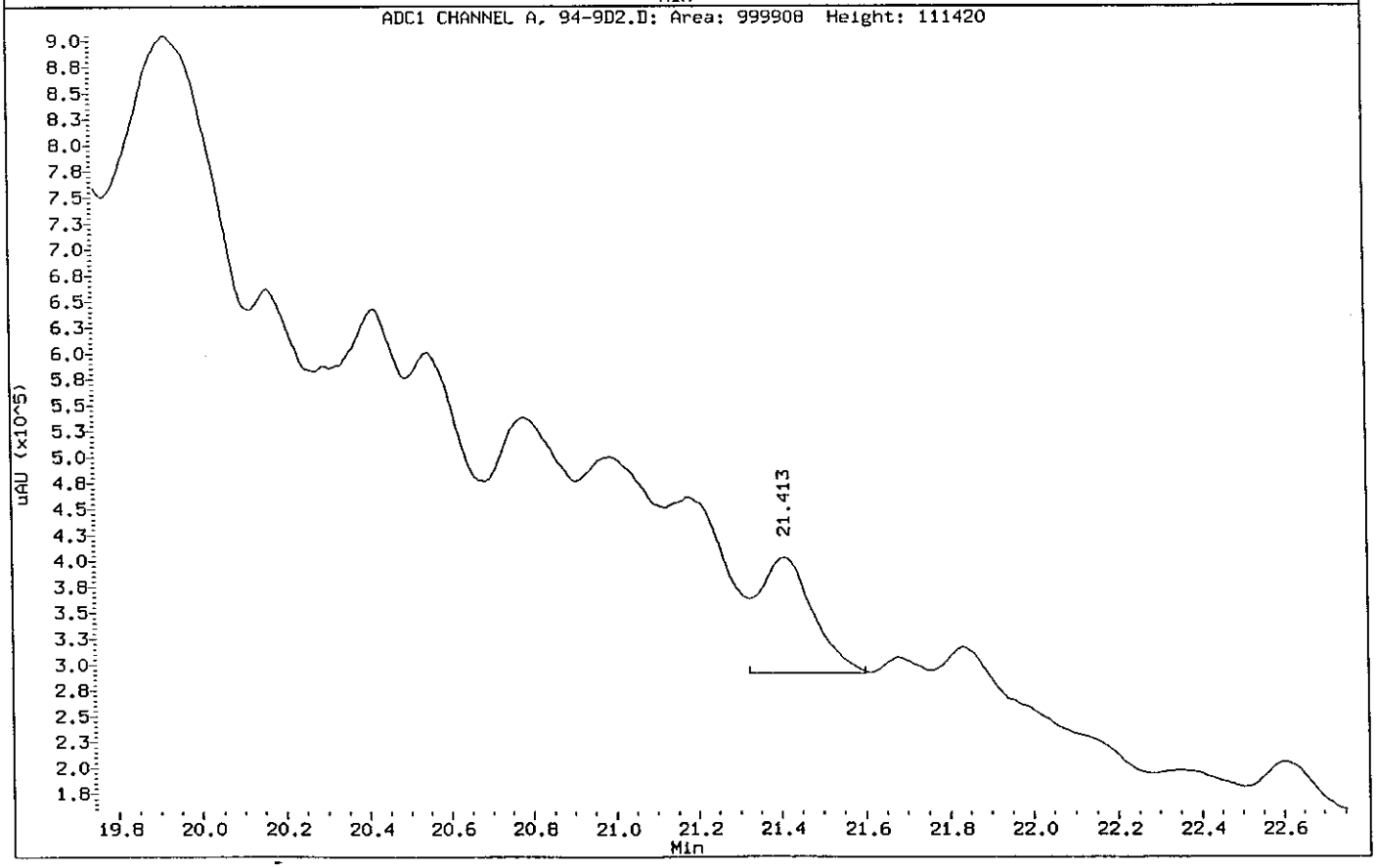
Compound: Benzo(b)Fluoranthene
CAS Number: 205-99-2





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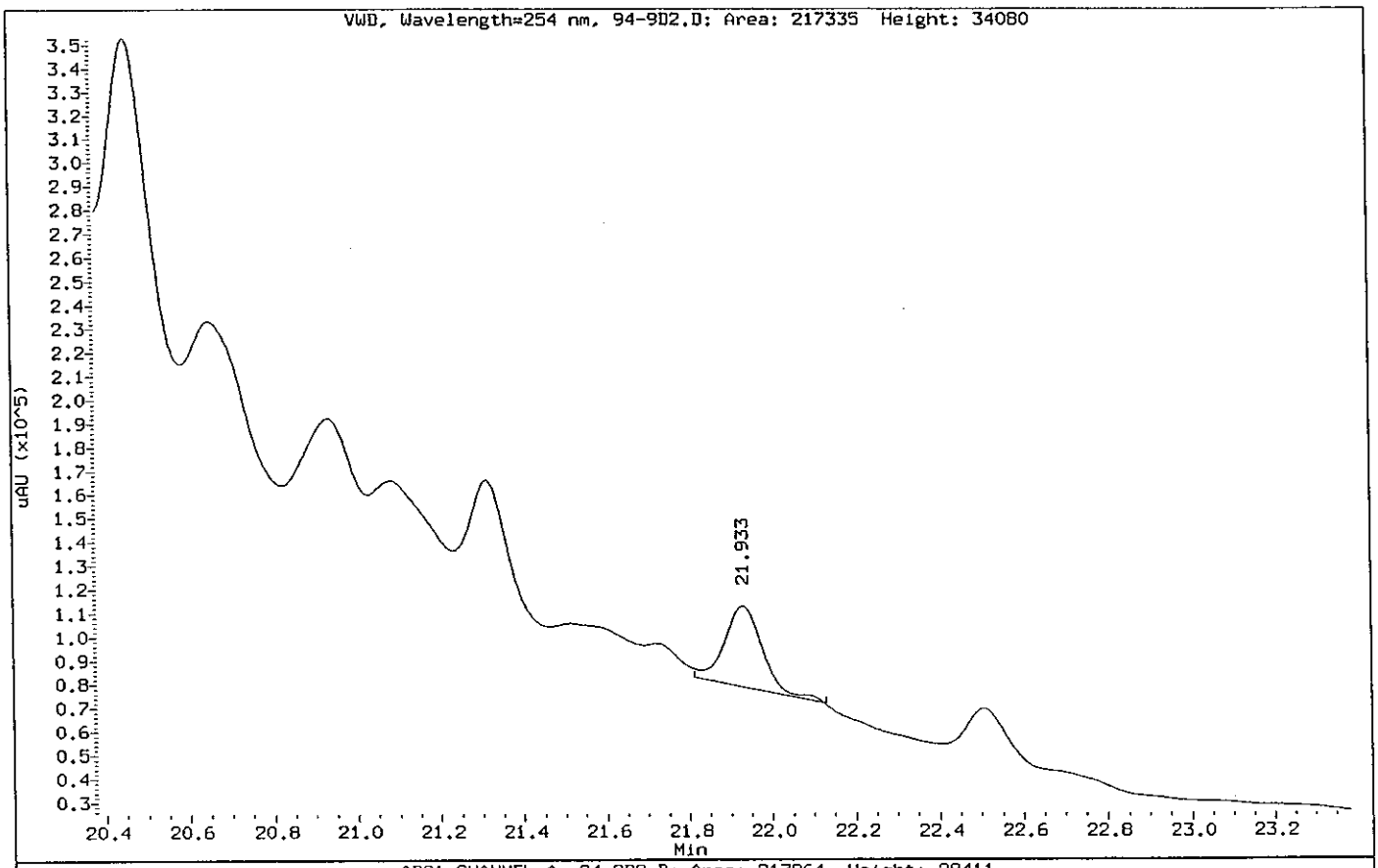
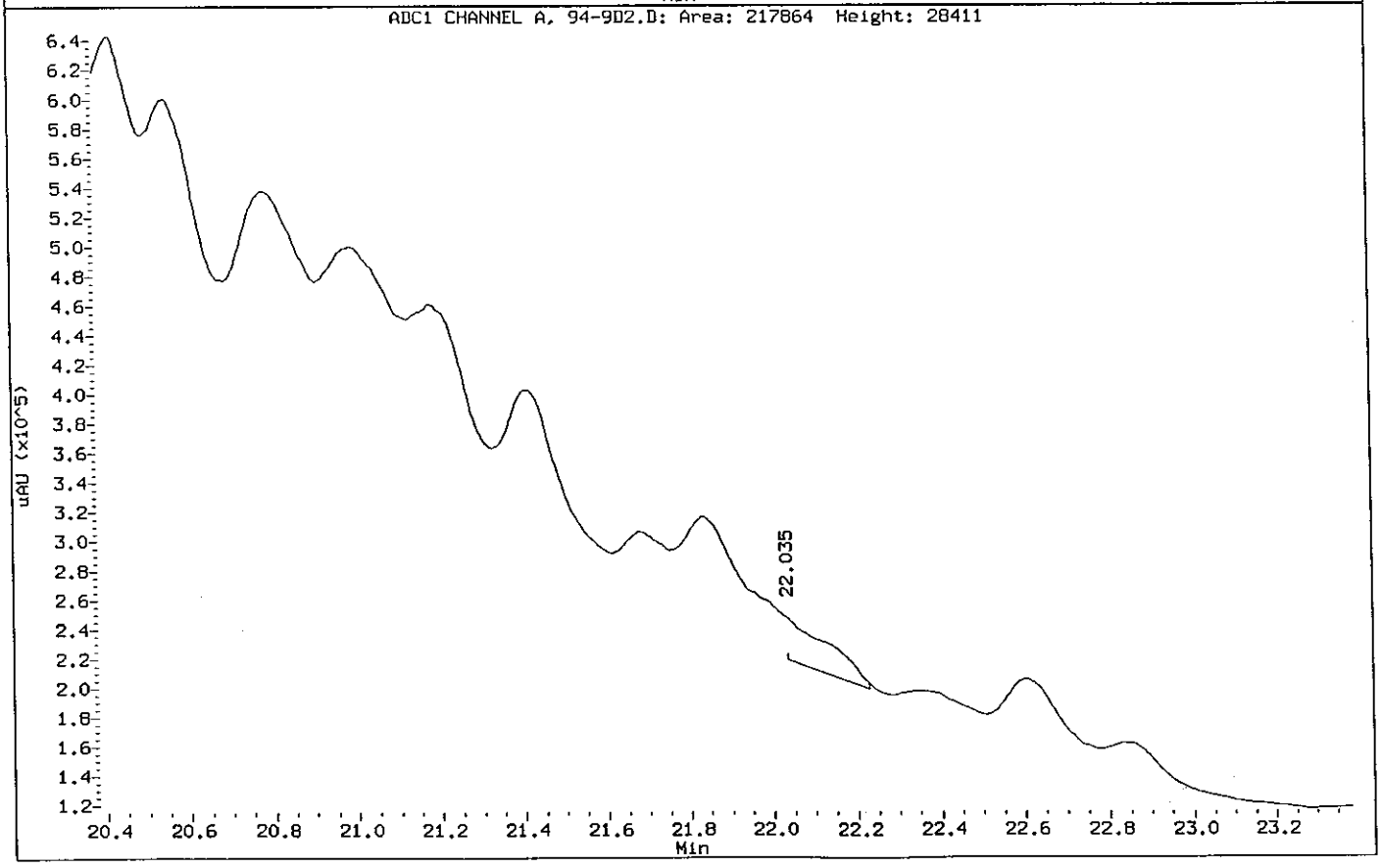
Compound: Benzo(k)Fluoranthene
CAS Number: 207-08-9





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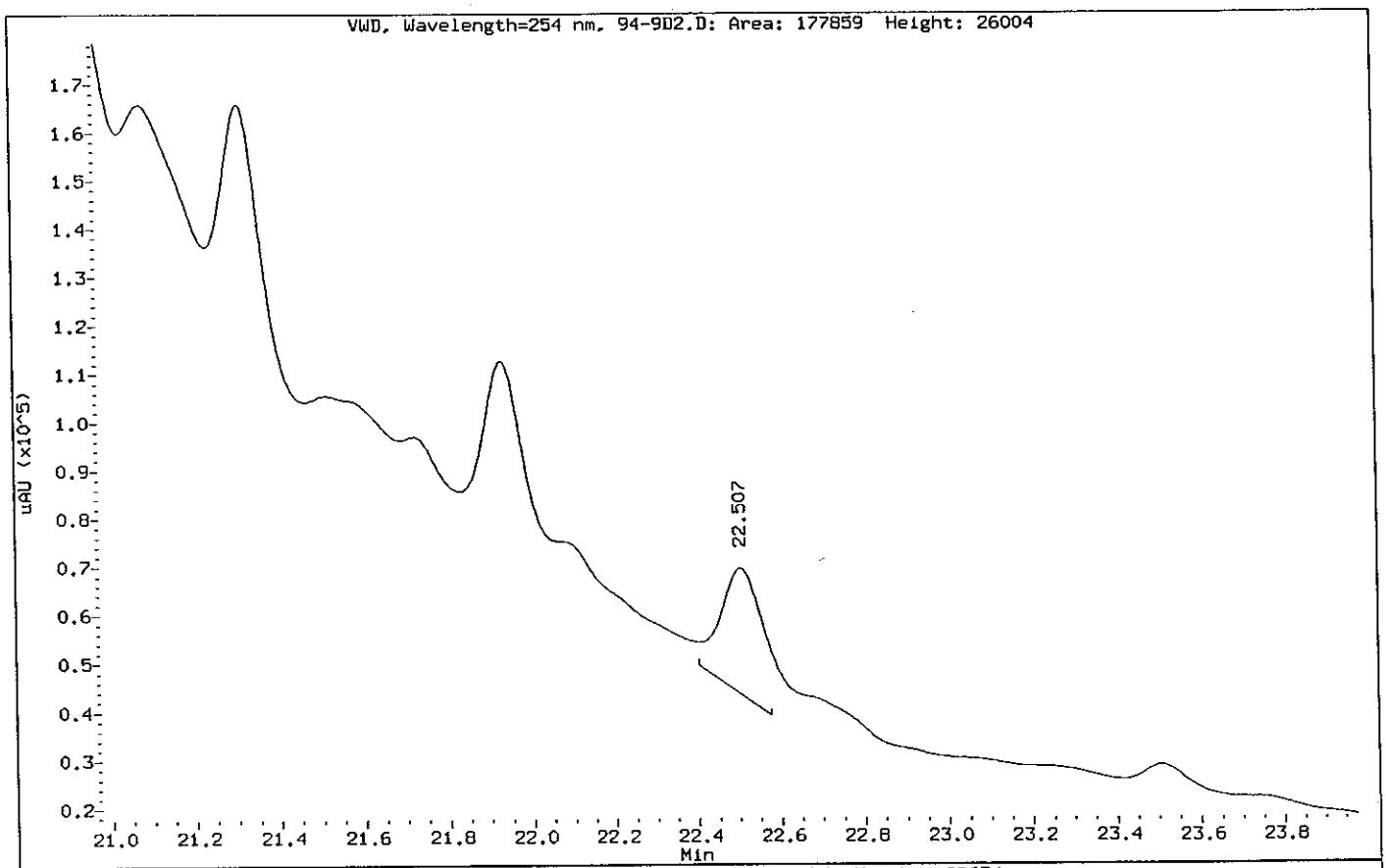
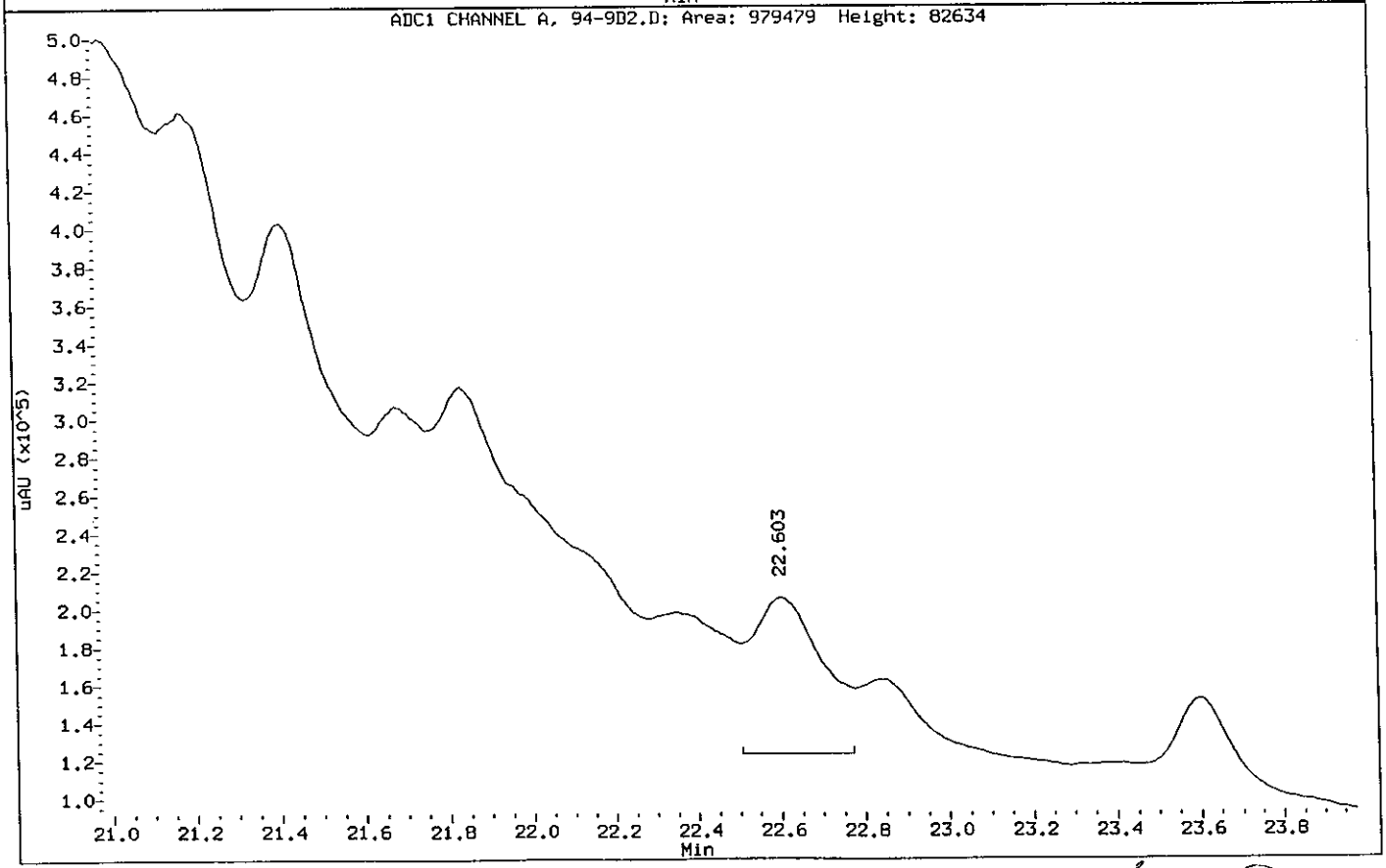
Compound: Benzo(a)pyrene
CAS Number: 50-32-8





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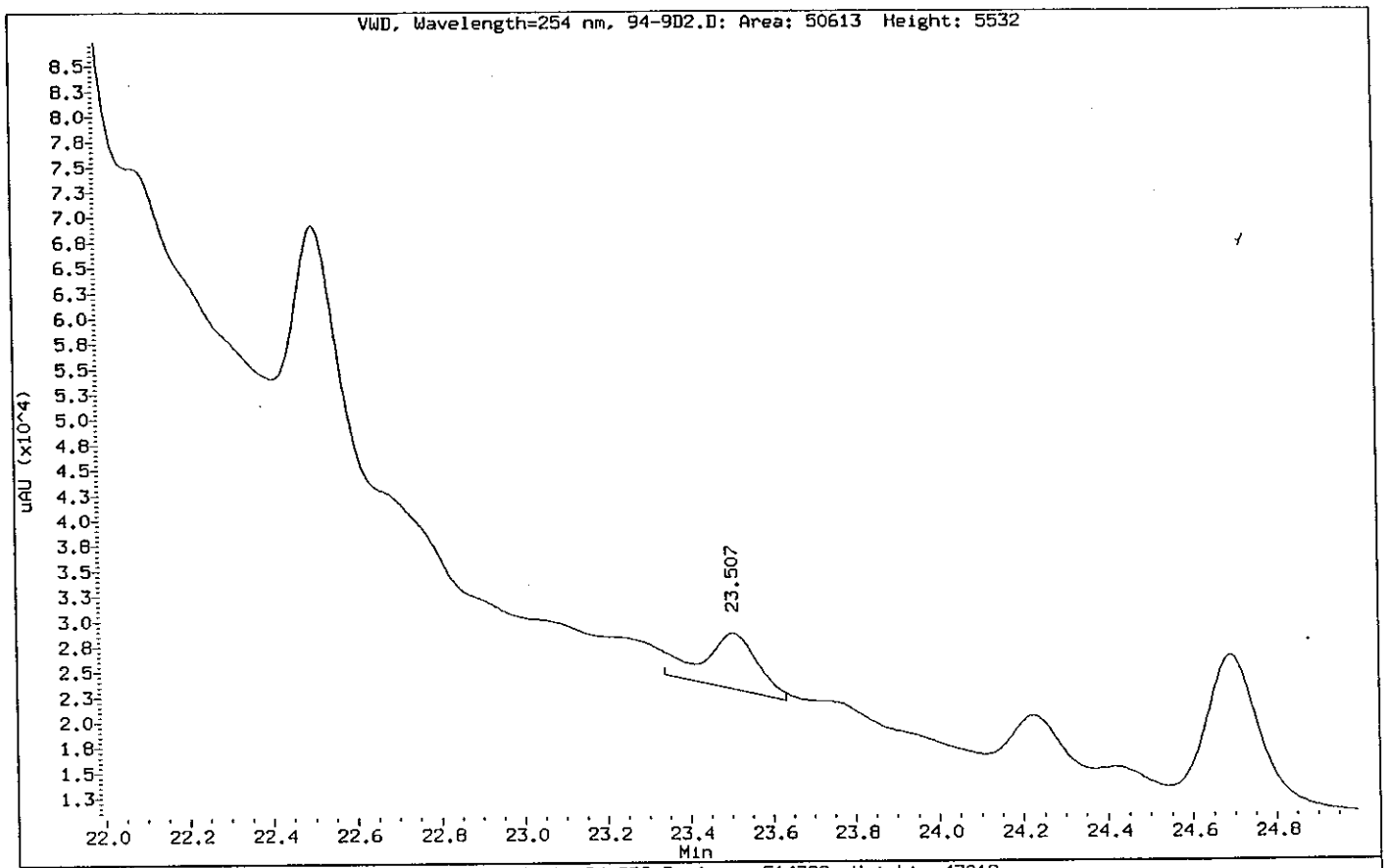
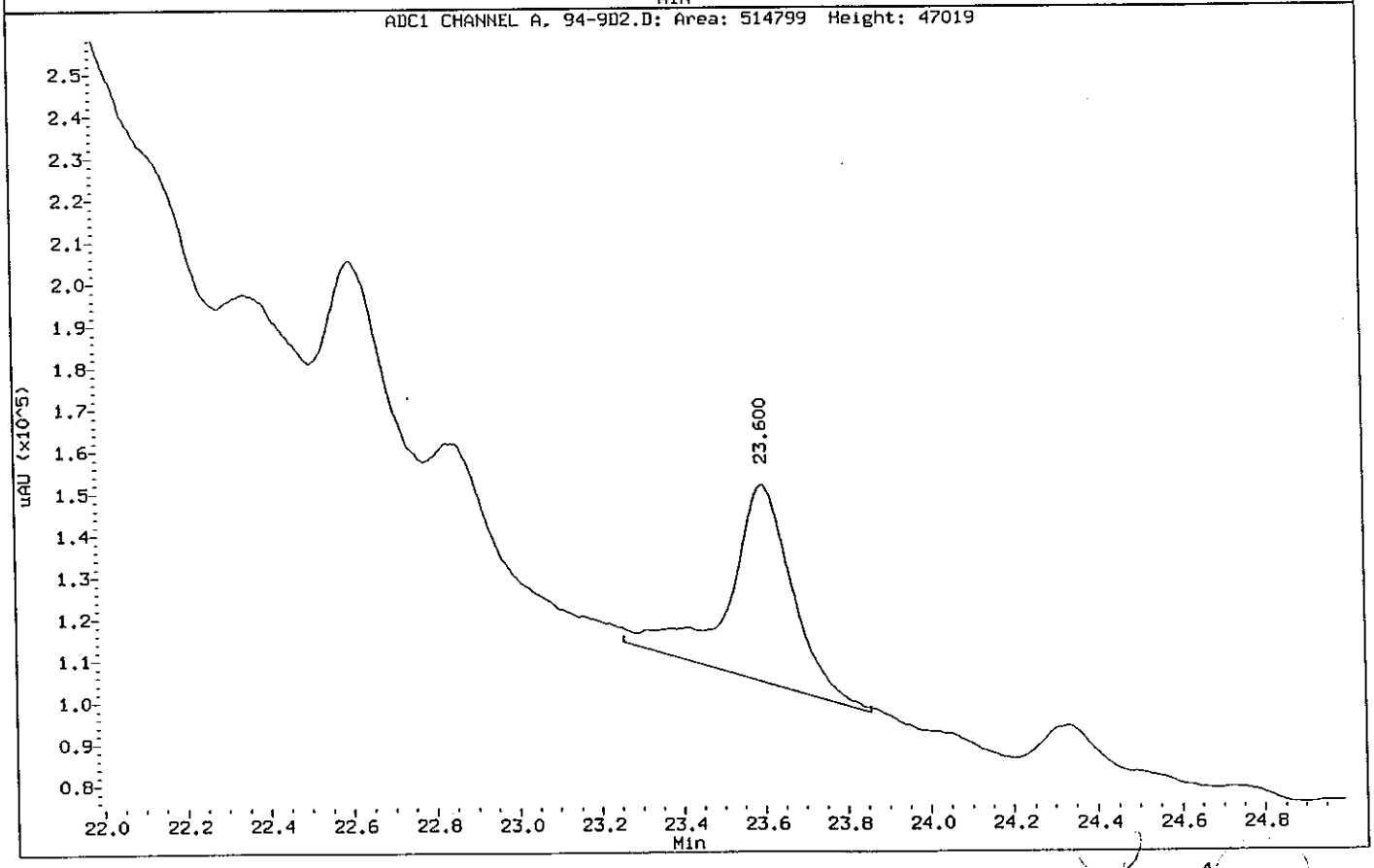
Compound: Dibenz(ah)Anthracene
CAS Number: 53-70-3





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Injection Date: 29-OCT-2001 17:08
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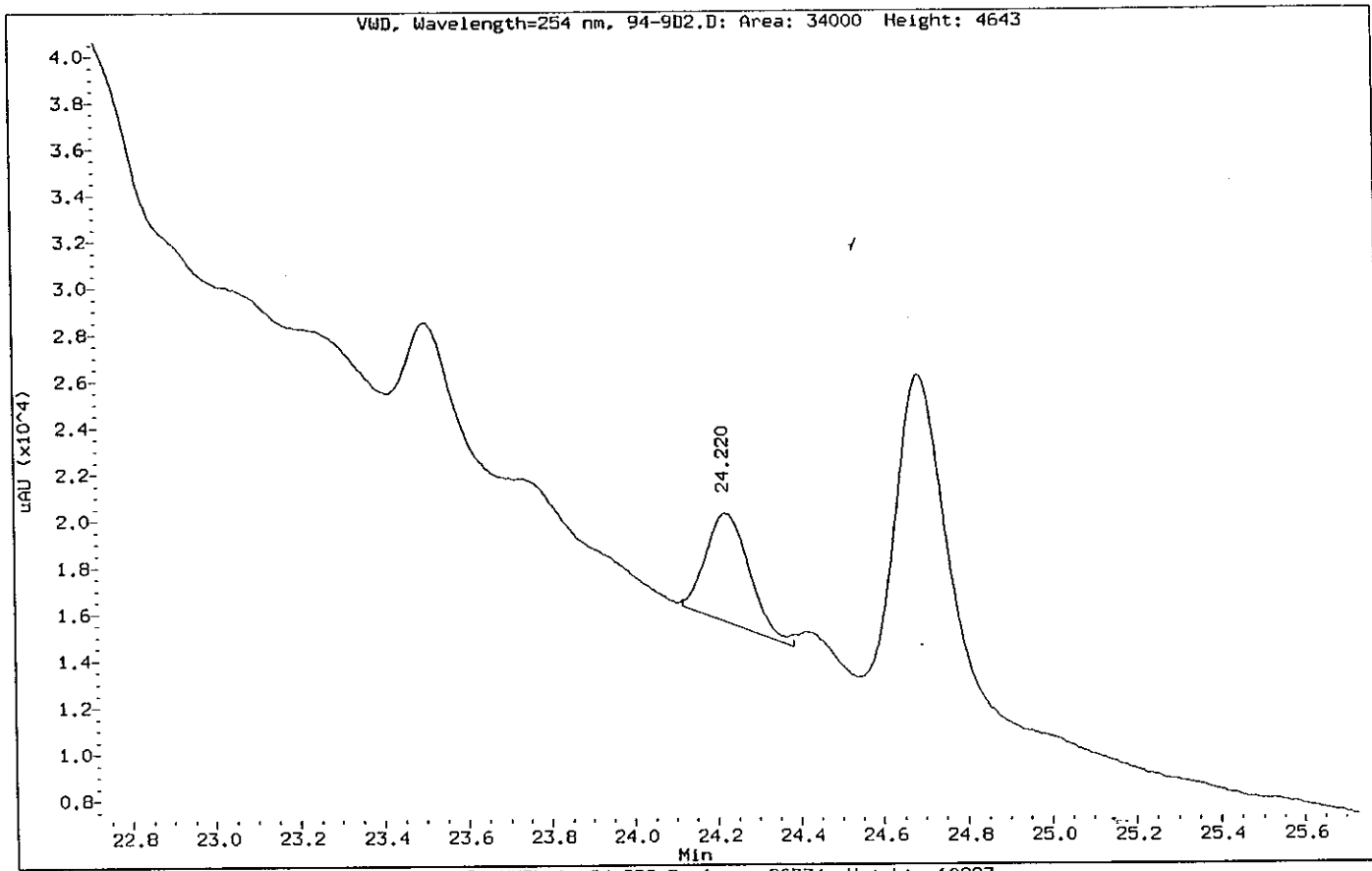
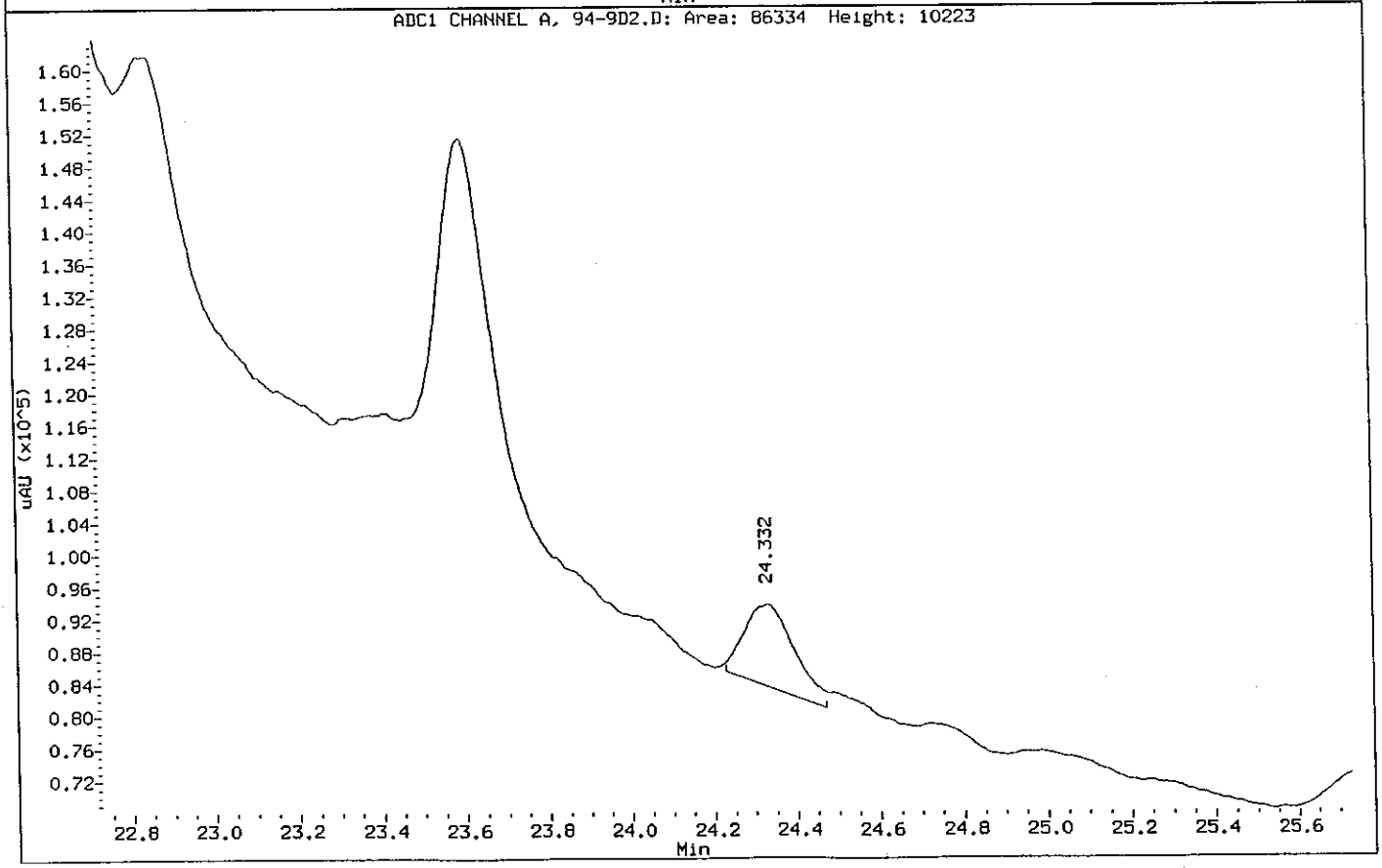
Client Sample ID: 062B101S101801DLMSD

Compound: Benzo(ghi)Perylene
CAS Number: 191-24-2





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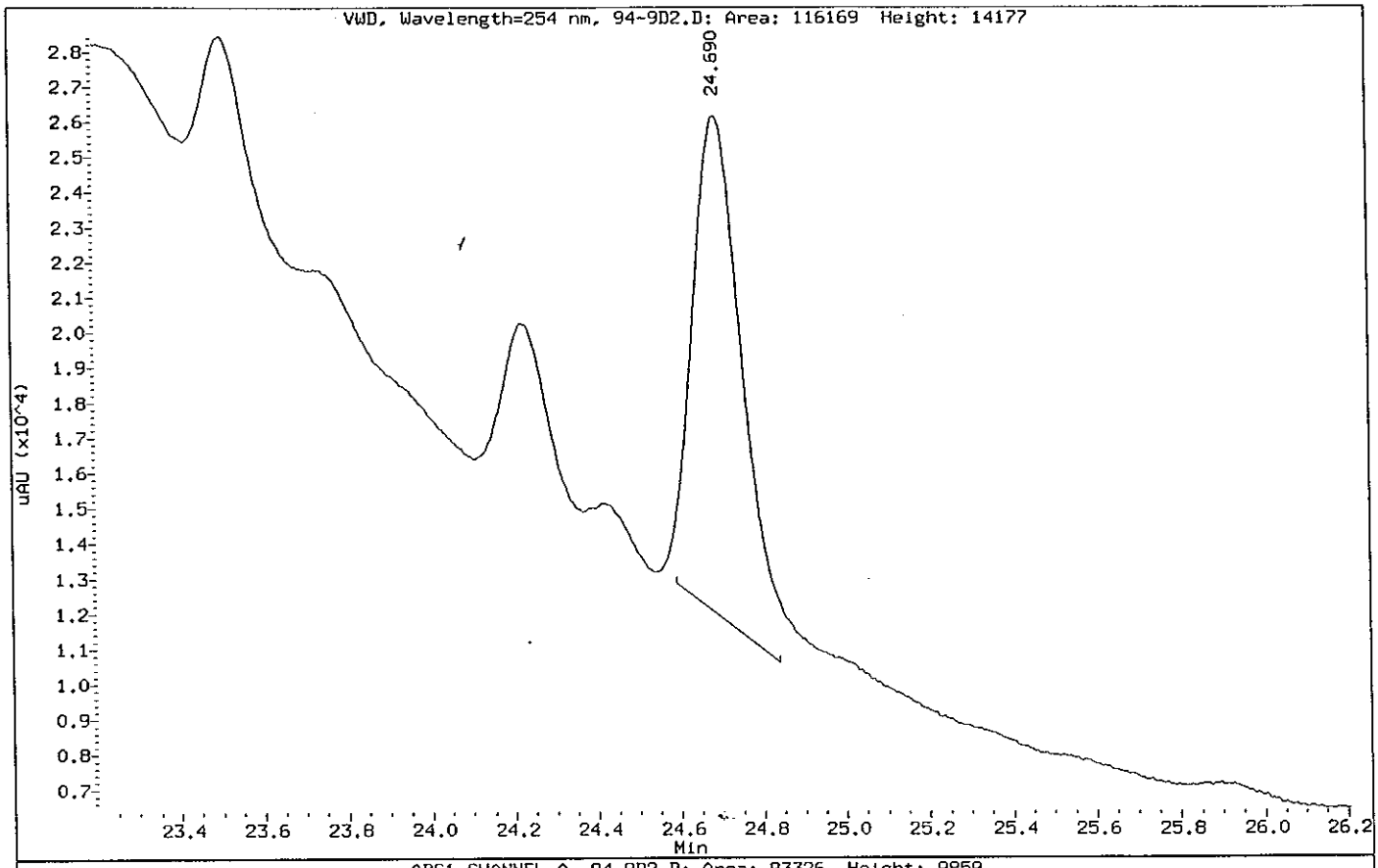
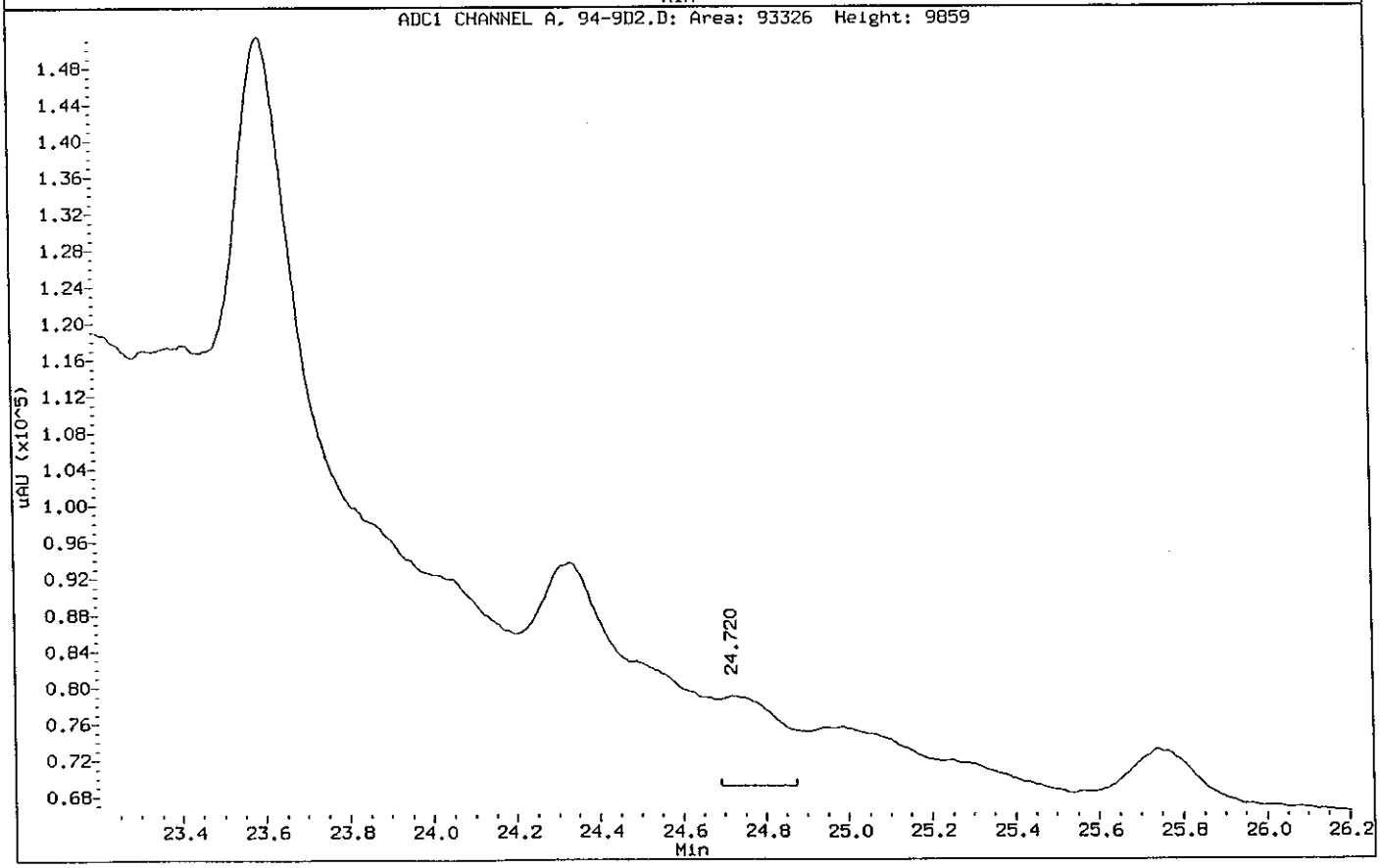
Compound: Indeno(123cd)Pyrene
CAS Number: 193-39-5





PEL Laboratories

Data file : \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-16D10.D
Lab Smp Id: 211009416 Client Smp ID: 062B167S101801
Inj Date : 29-OCT-2001 15:59
Operator : rood Inst ID: slc02.i
Smp Info : 211009416
Misc Info :
Comment :
Method : \\SVHPLC\ee\chem\slc02.i\L21028R1.b\8310S.m
Meth Date : 02-Nov-2001 08:36 jdonnelly Quant Type: ISTD
Cal Date : 28-OCT-2001 20:26 Cal File: PT2UGML.D
Als bottle: 12
Dil Factor: 10.00000
Integrator: Falcon Compound Sublist: navy50.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	10.000	Dilution Factor
Ws	33.000	Extracted weight
M	12.776	% Moisture
Vf	1.000	Final Volume

RT	EXP RT	REL RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/kg)	TARGET RANGE	RATIO
* 1 Carbazole (ISTD)						CAS #: 86-74-8		
11.023	10.610	(1.000)	VWD1A	249673			80.00- 120.00	100.00(M)
11.114	10.610	(1.008)	ADC1A	2010096	10.0000		652.03- 978.05	805.09
2 Naphthalene						CAS #: 91-20-3		
12.090	11.770	(1.097)	VWD1A	169091	29.6353	10300	80.00- 120.00	100.00
12.183	11.770	(1.105)	ADC1A	221444	35.8136	12400	82.40- 123.60	130.96
4 1-Methyl naphthalene						CAS #: 90-12-0		
13.883	13.633	(1.259)	VWD1A	210019	61.0345	21200	80.00- 120.00	100.00(AM)
13.971	13.633	(1.267)	ADC1A	1046766	82.2011	28600	296.60- 444.90	498.41
5 2-Methyl naphthalene						CAS #: 91-57-6		
14.210	13.973	(1.289)	VWD1A	328819	67.4931	23400	80.00- 120.00	100.00(AM)

RT	EXP RT	REL RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	CONCENTRATIONS FINAL (ug/kg)	TARGET RANGE	RATIO
5 2-Methyl naphthalene (continued)								
14.299	13.973	(1.297)	ADC1A	1078277	100.117	34800	191.55- 287.32	327.92
6 Acenaphthene						CAS #: 83-32-9		
14.546	14.310	(1.320)	VWD1A	4193	0.54030	188	80.00- 120.00	100.00(aM)
14.621	14.310	(1.326)	ADC1A	12107	0.47838	166	964.12-1446.17	1014.84
7 Fluorene						CAS #: 86-73-7		
14.893	14.680	(1.351)	VWD1A	125674	4.93062	1710	80.00- 120.00	100.00
14.973	14.680	(1.358)	ADC1A	8115	2.62849	913	9.06- 13.59	6.46
8 Phenanthrene						CAS #: 85-01-8		
15.693	15.500	(1.424)	VWD1A	483899	6.82524	2370	80.00- 120.00	100.00(M)
15.773	15.500	(1.431)	ADC1A	2614991	38.8658	13500	78.58- 117.87	540.40
10 Fluoranthene						CAS #: 206-44-0		
17.256	17.066	(1.565)	VWD1A	101127	5.96652	2070	80.00- 120.00	100.00(M)
17.321	17.066	(1.571)	ADC1A	244987			6.36- 9.54	242.26
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.736	18.593	(1.700)	VWD1A	53740	3.56612	1240	80.00- 120.00	100.00(RM)
18.808	18.593	(1.706)	ADC1A	913014	2.21352	769	2246.35-3369.53	1698.95
14 Chrysene						CAS #: 218-01-9		
19.853	19.820	(1.801)	VWD1A	57415	1.01067	351	80.00- 120.00	100.00(aM)
19.938	19.820	(1.809)	ADC1A	62461	0.46166	160	190.14- 285.21	108.79

QC Flag Legend

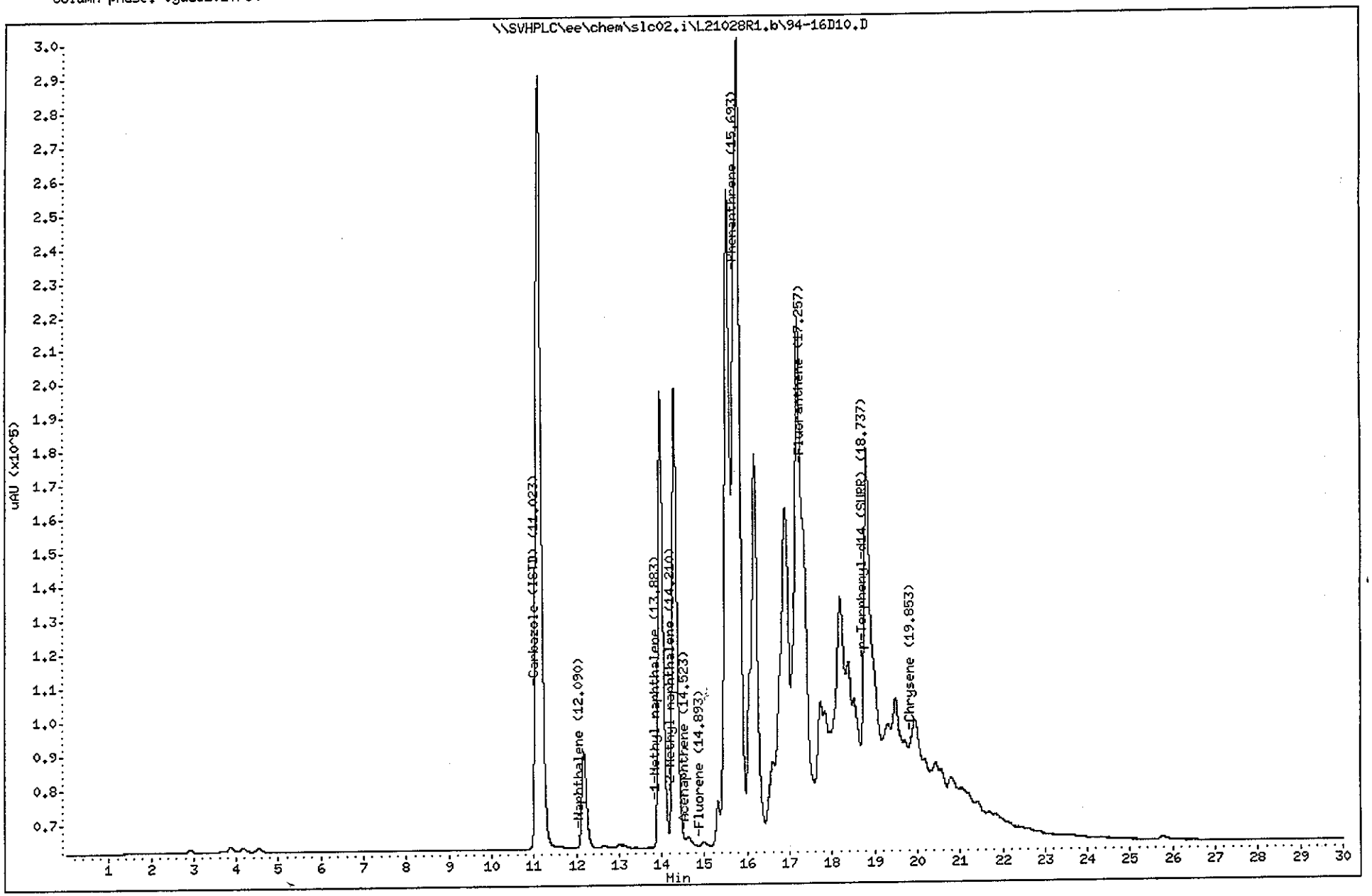
a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-16D10.D
Date : 29-OCT-2001 15:59
Client ID: 062B167S101801
Sample Info: 211009416

Instrument: slc02.i

Operator: rood
Column diameter: 4.60

Column phase: Vydac201TP54



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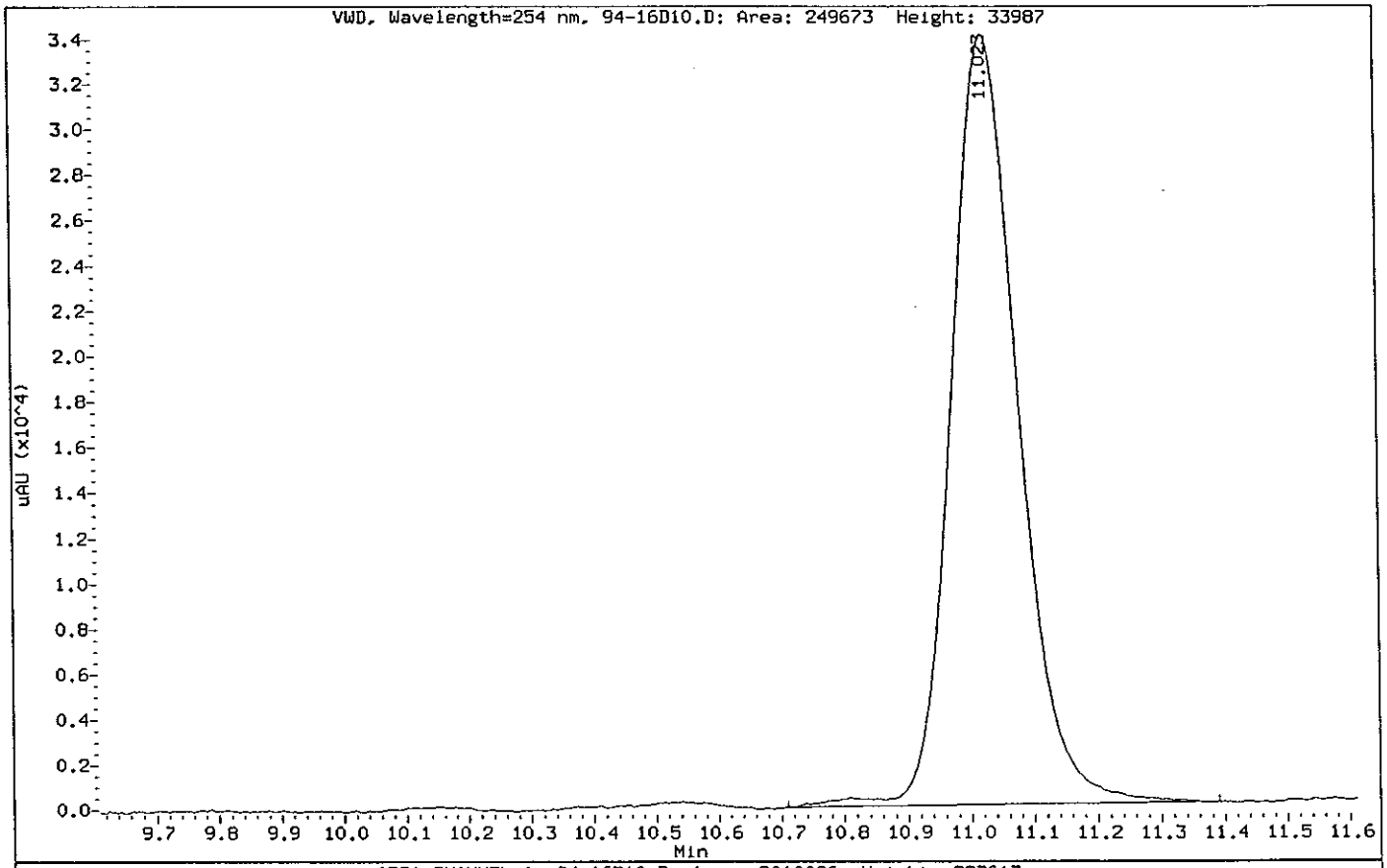
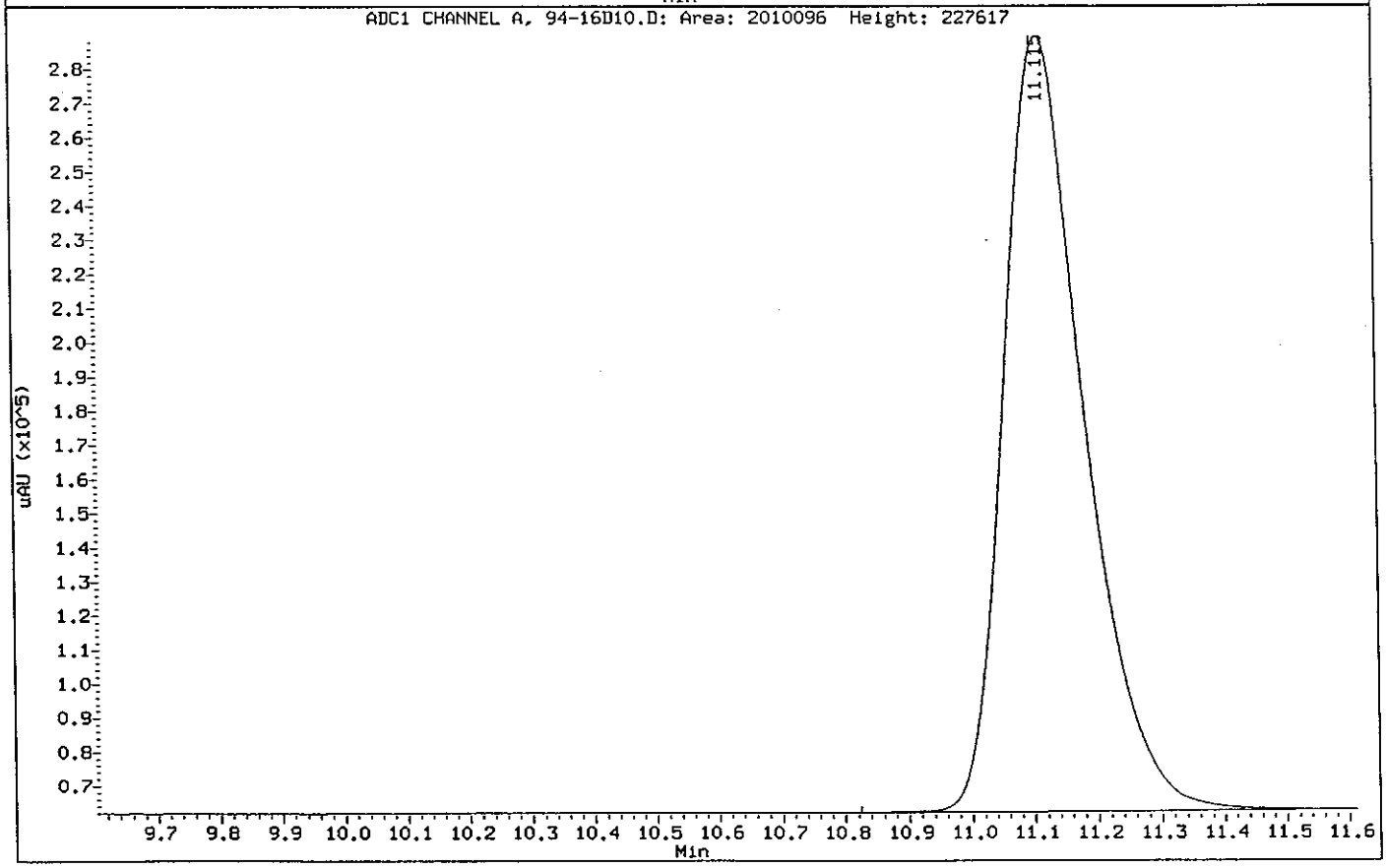
Injection Date: 29-OCT-2001 15:59
Instrument: slc02.i
Client Sample ID: 062B167S101B01

Compound: Carbazole (ISTD)
CAS Number: 86-74-8





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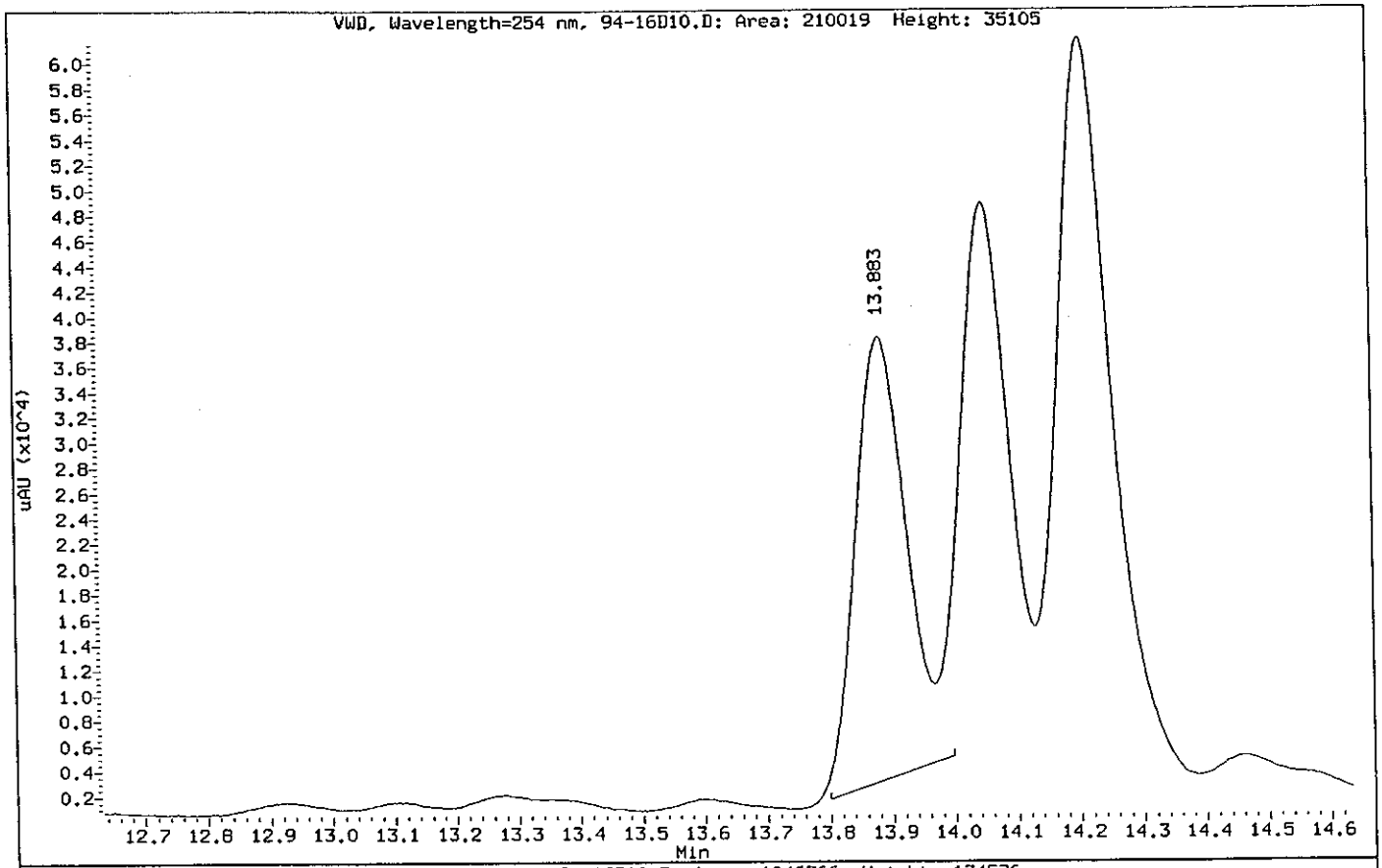
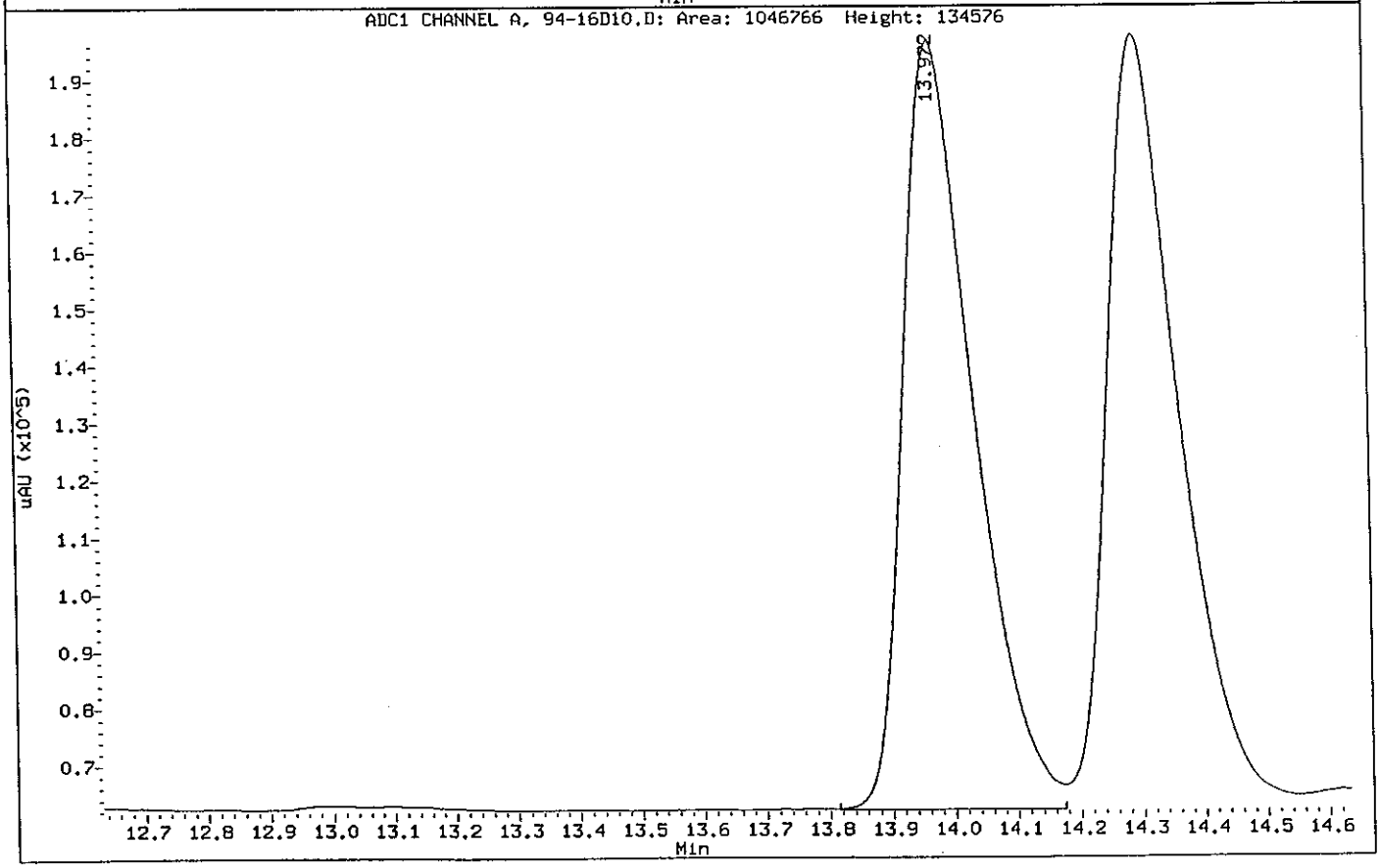
Injection Date: 29-OCT-2001 15:59
Instrument: slc02.i
Client Sample ID: 062B167S101801

Compound: 1-Methyl naphthalene
CAS Number: 90-12-0

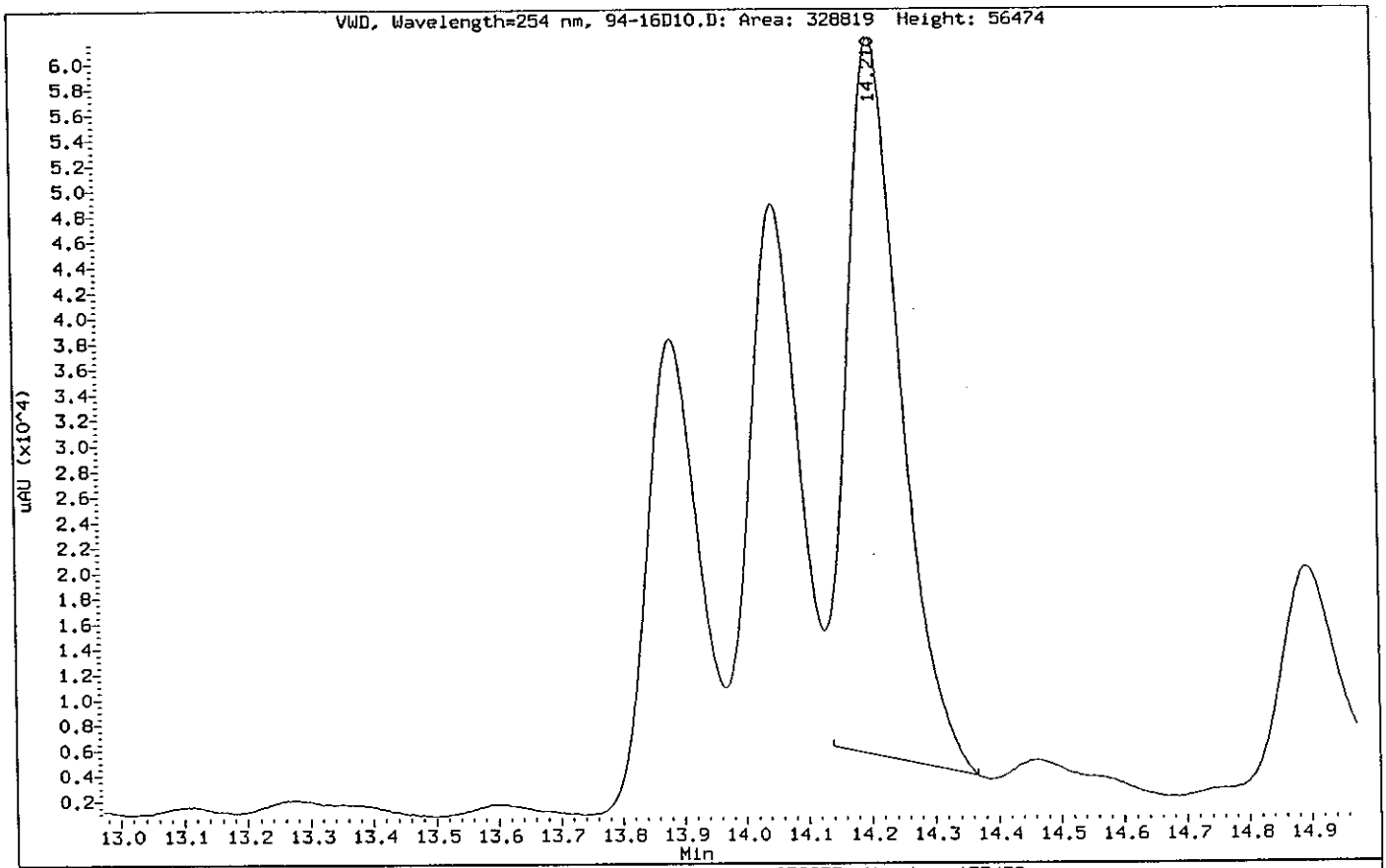


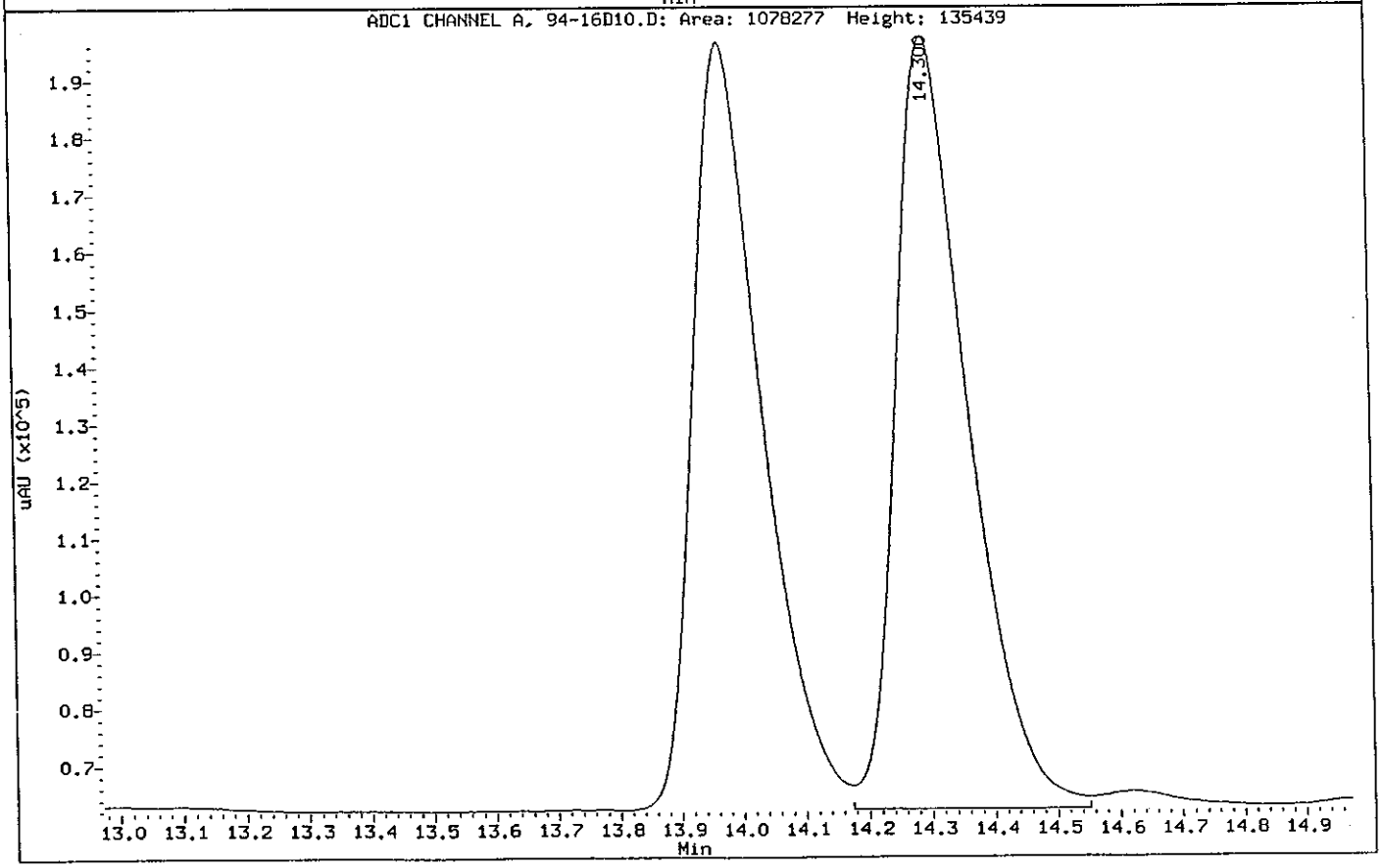


TMD

Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\94-16D10.D
Injection Date: 29-OCT-2001 15:59
Instrument: slc02.i
Client Sample ID: 062B1675101801

Compound: 2-Methyl naphthalene
CAS Number: 91-57-6





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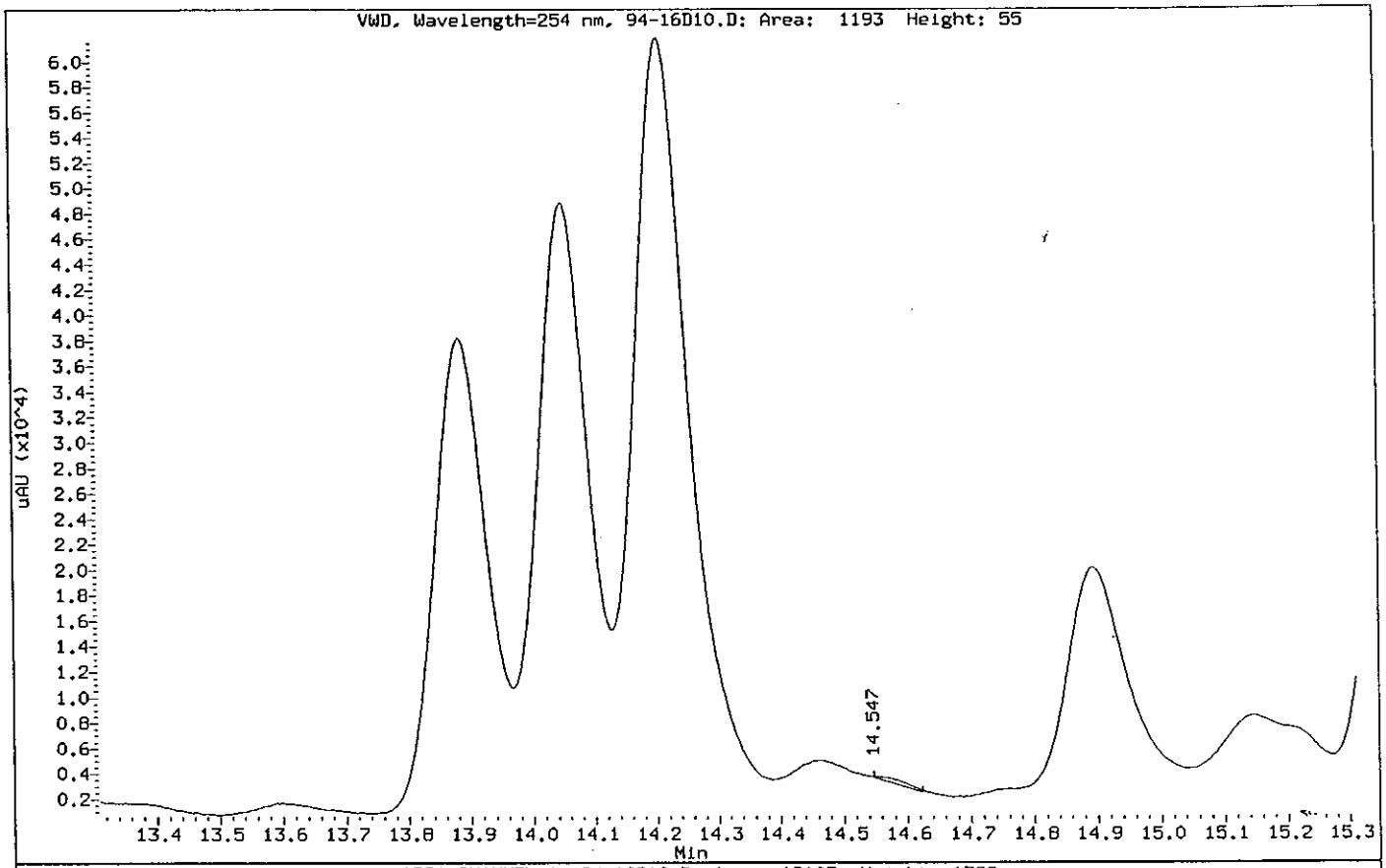
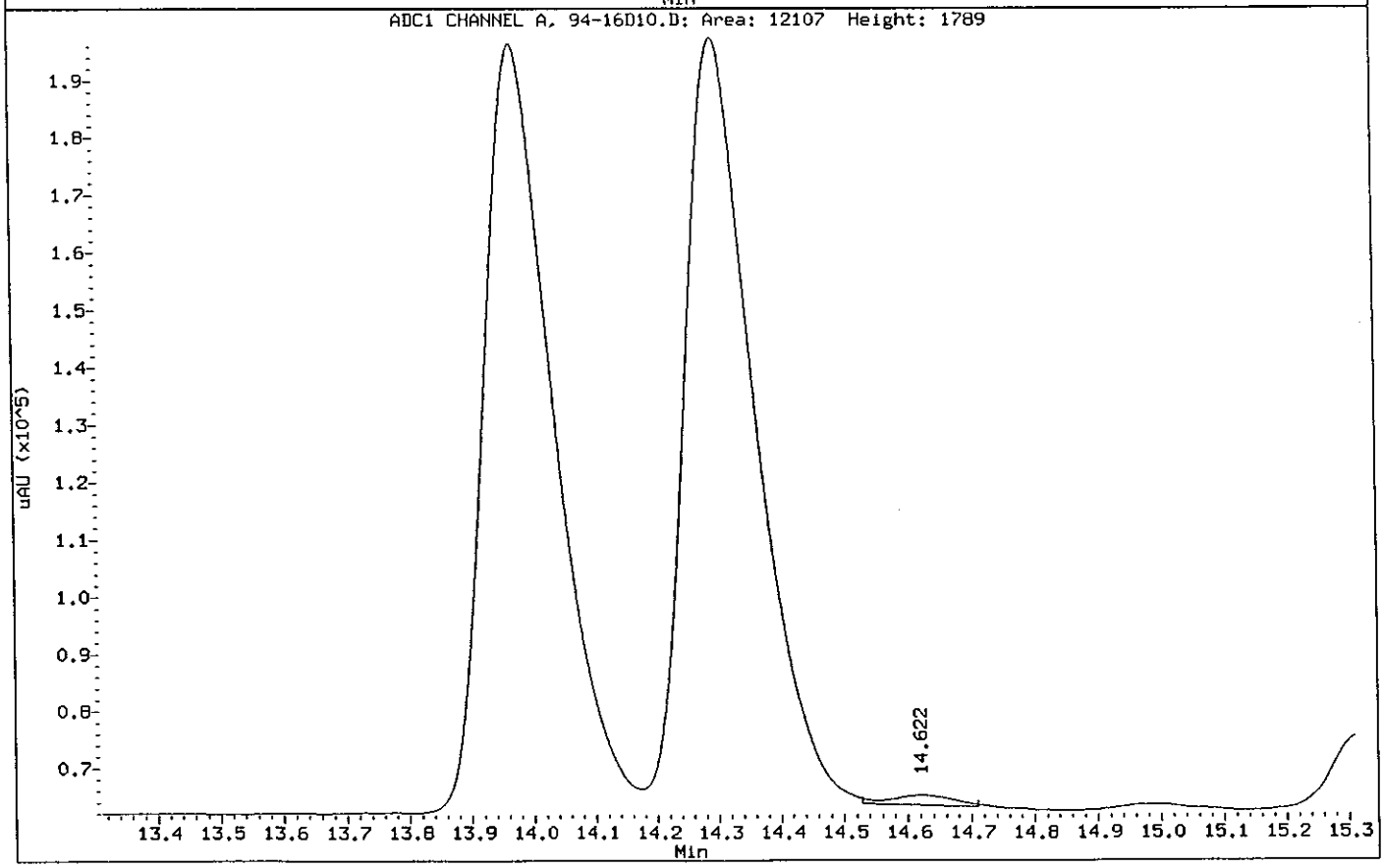
Injection Date: 29-OCT-2001 15:59
Instrument: slc02.i
Client Sample ID: 062B1675101801

Compound: Acenaphthene
CAS Number: 83-32-9





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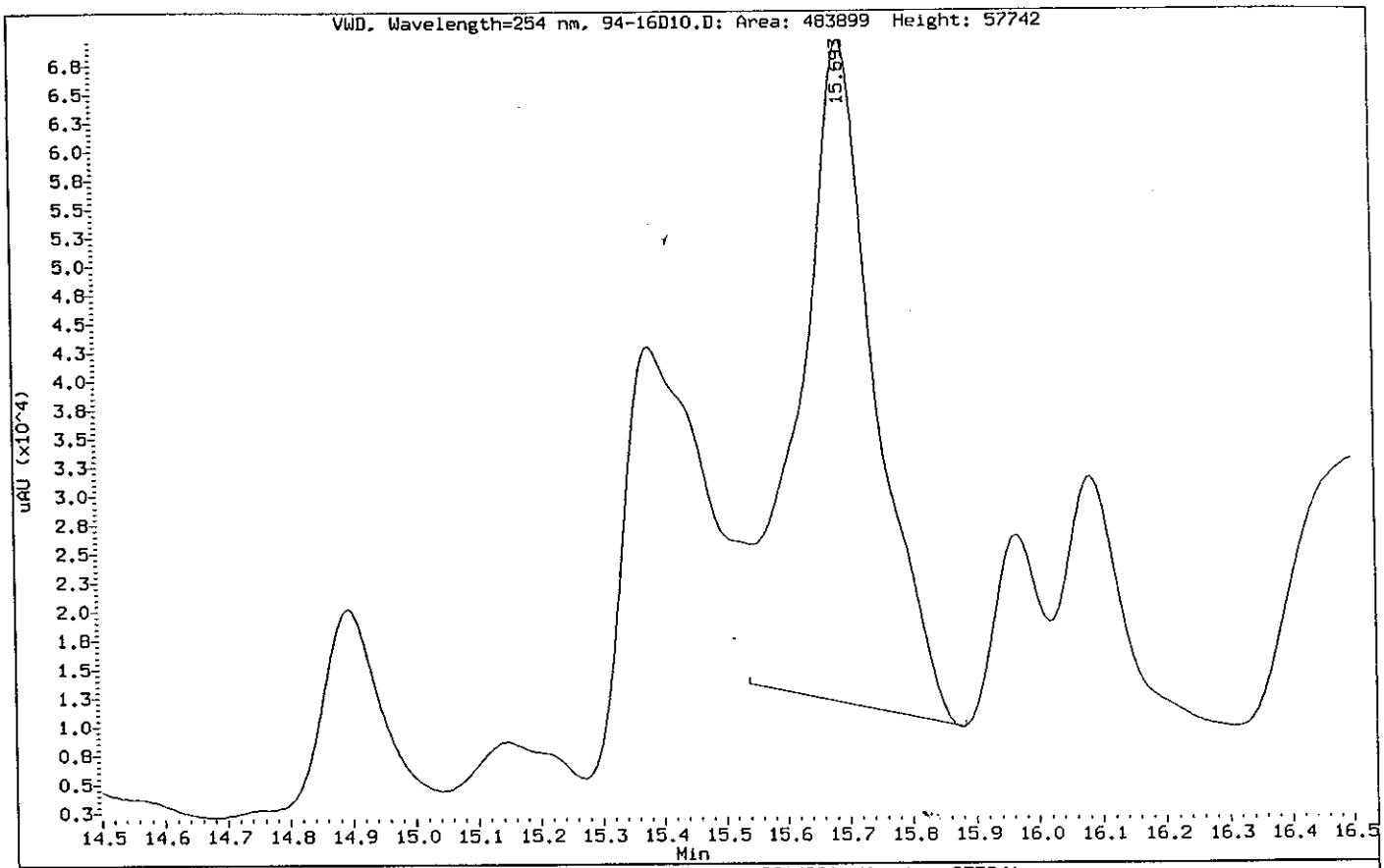
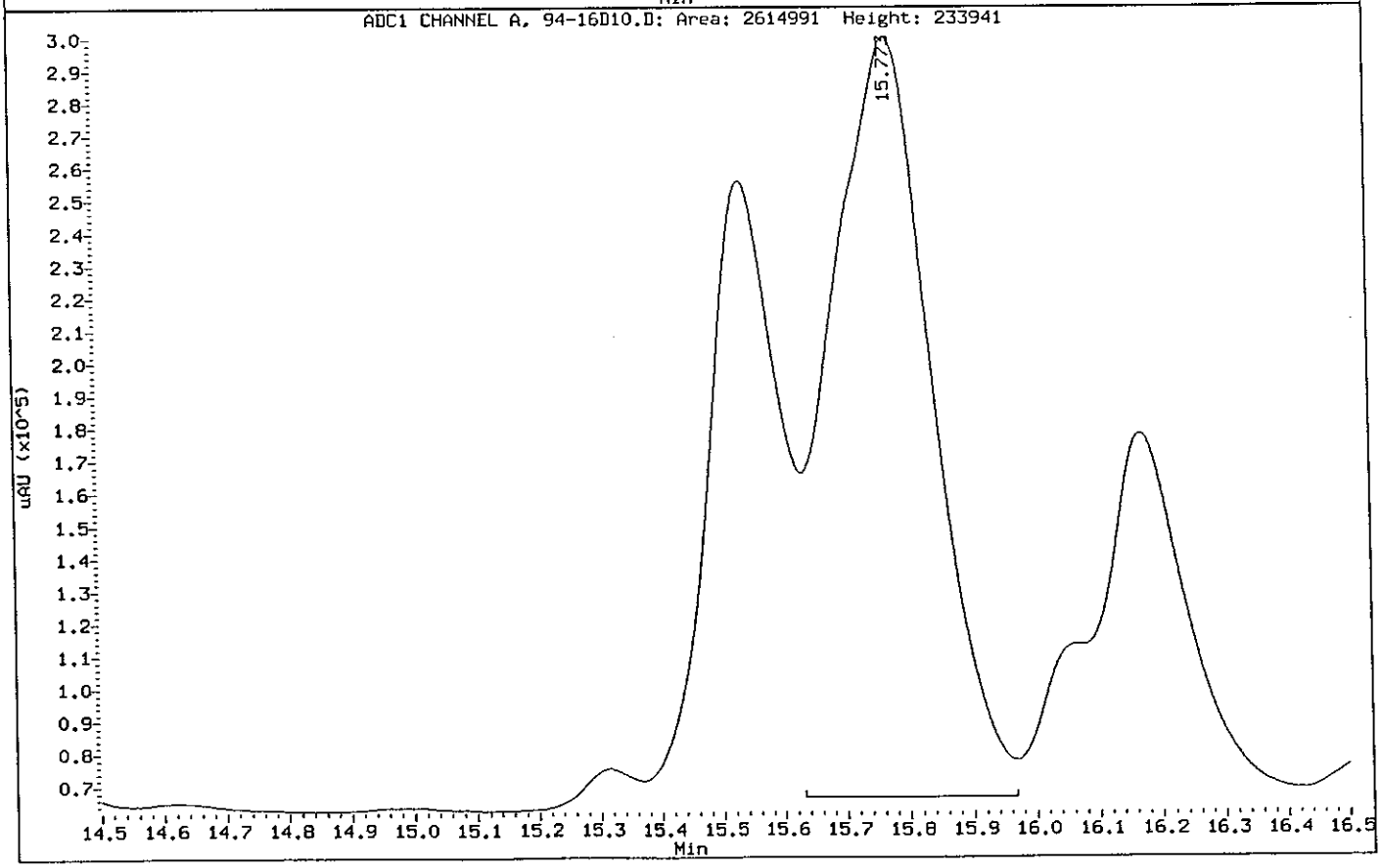
Injection Date: 29-OCT-2001 15:59
Instrument: slc02.i
Client Sample ID: 062B167S101801

Compound: Phenanthrene
CAS Number: 85-01-8





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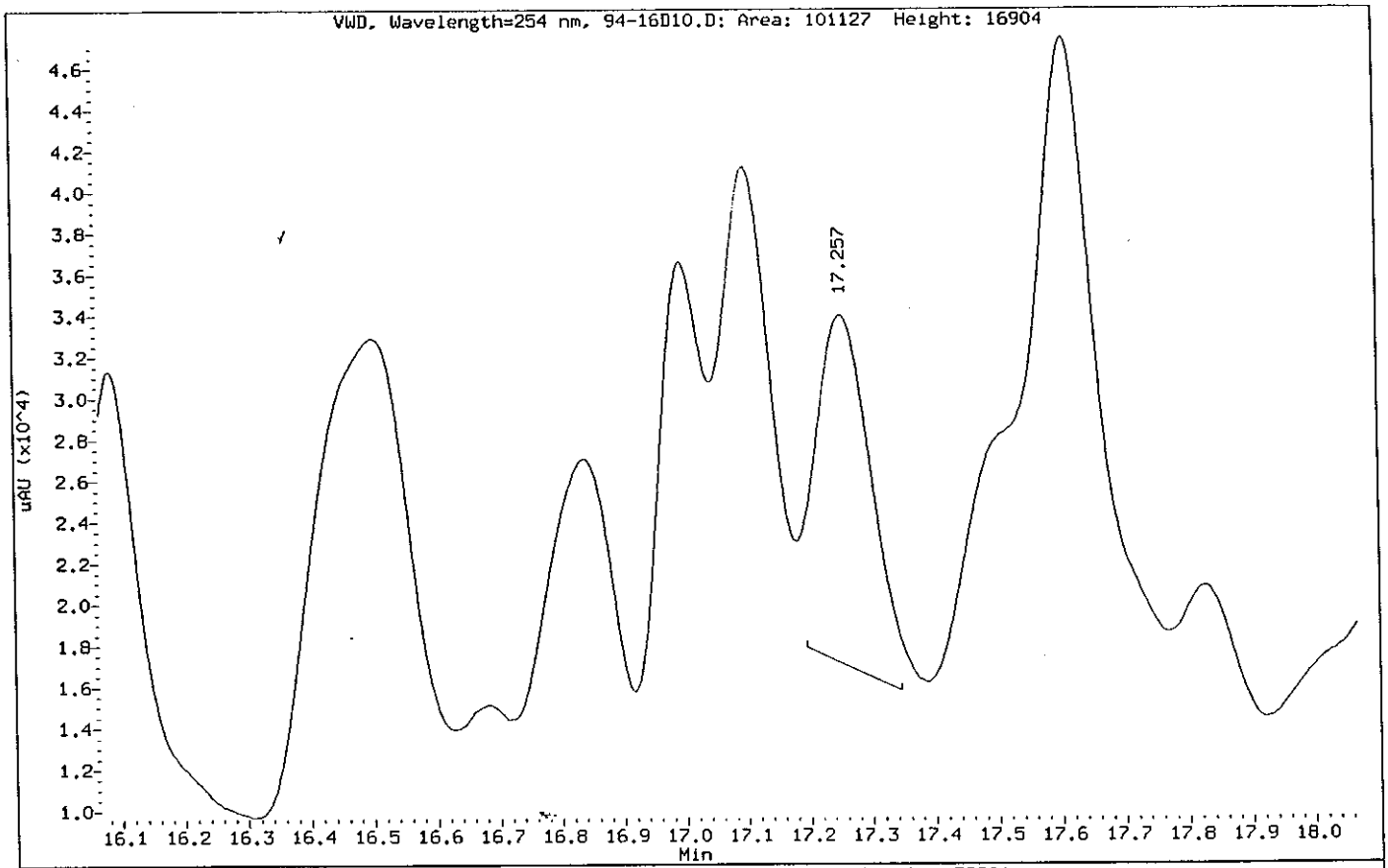
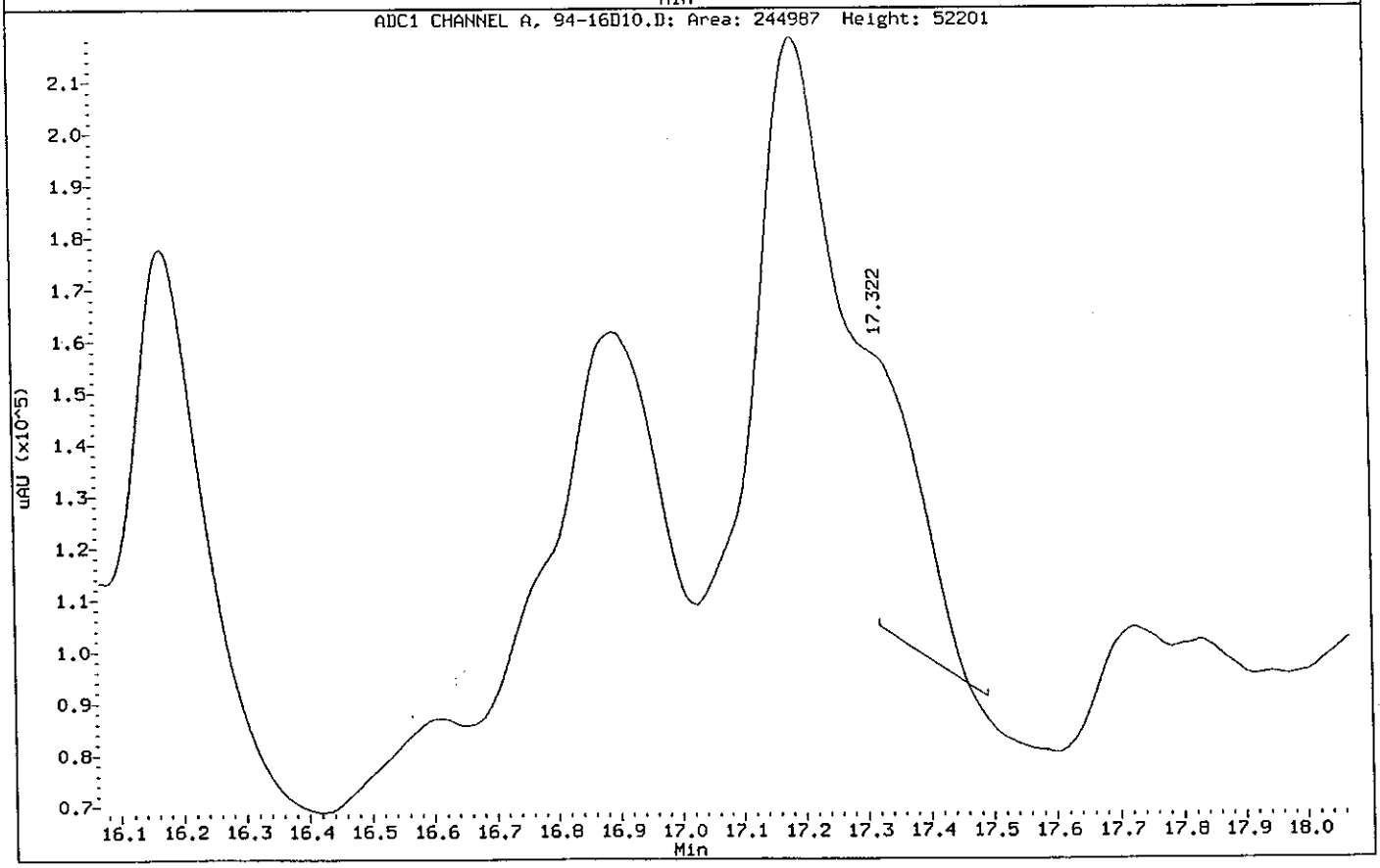
Injection Date: 29-OCT-2001 15:59
Instrument: slc02.i
Client Sample ID: 062B167S101801

Compound: Fluoranthene
CAS Number: 206-44-0





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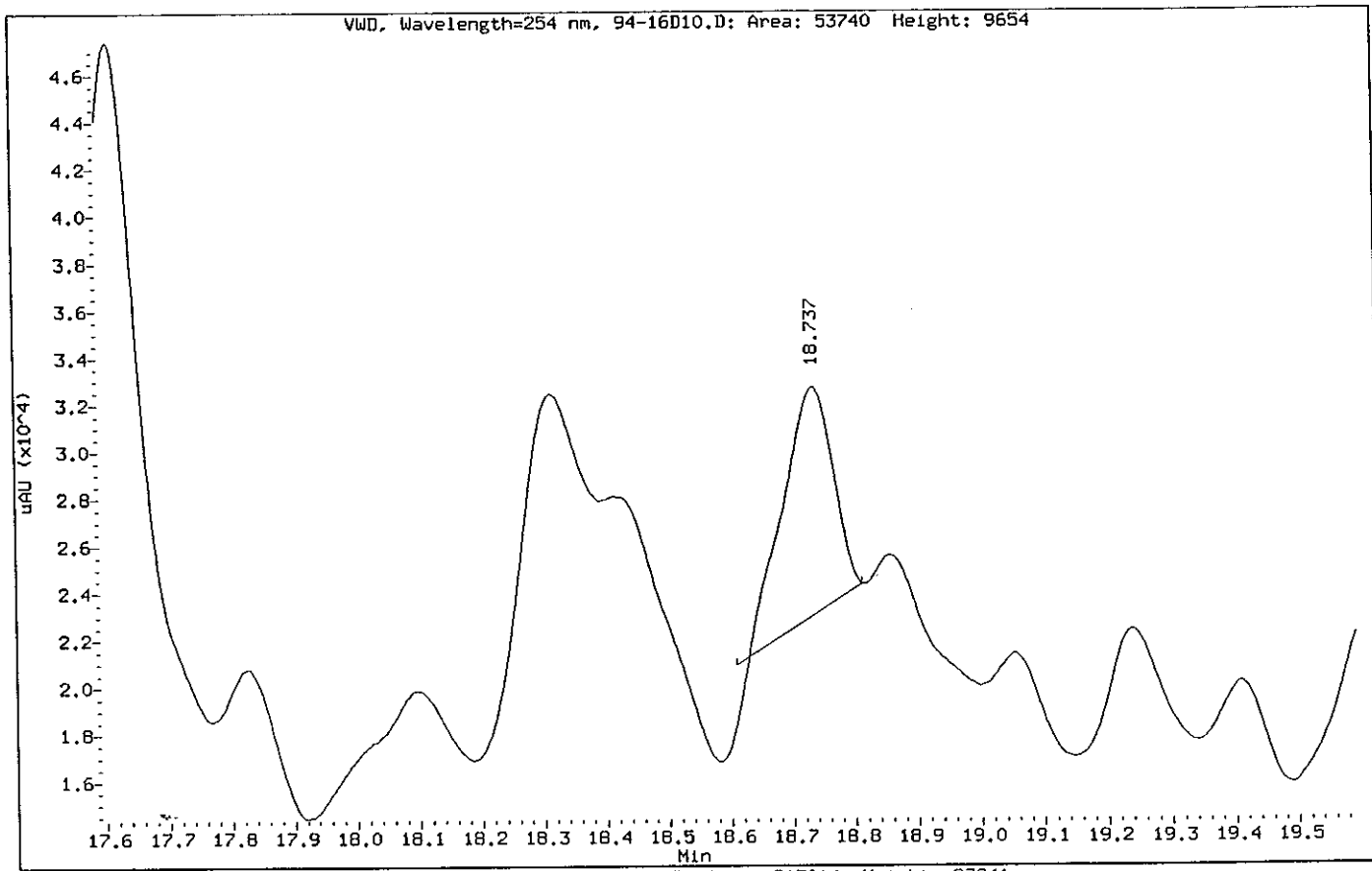
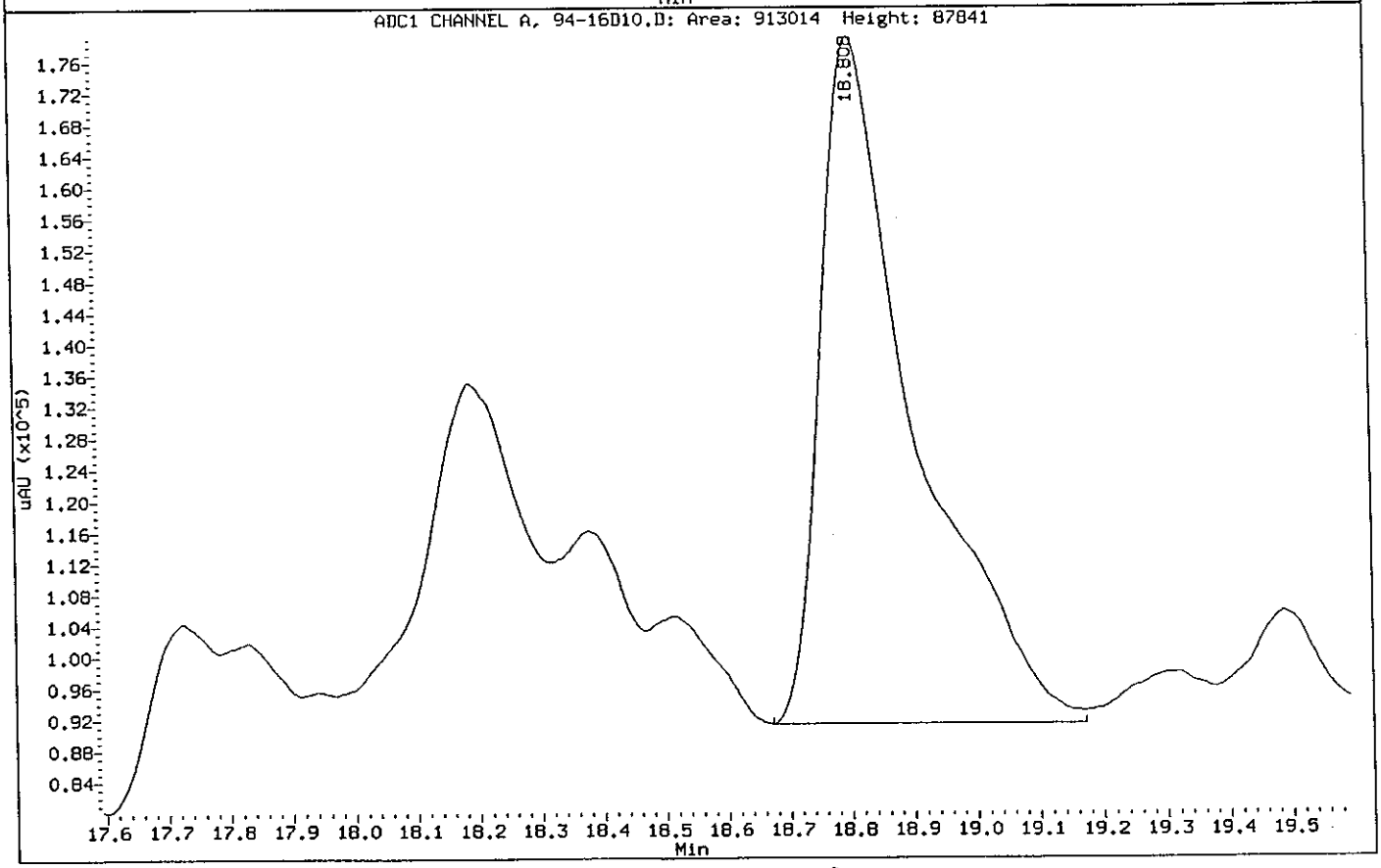
Injection Date: 29-OCT-2001 15:59
Instrument: slc02.i
Client Sample ID: 062B167S101801

Compound: p-Terphenyl-d14 (SURR)
CAS Number: 1718-51-0

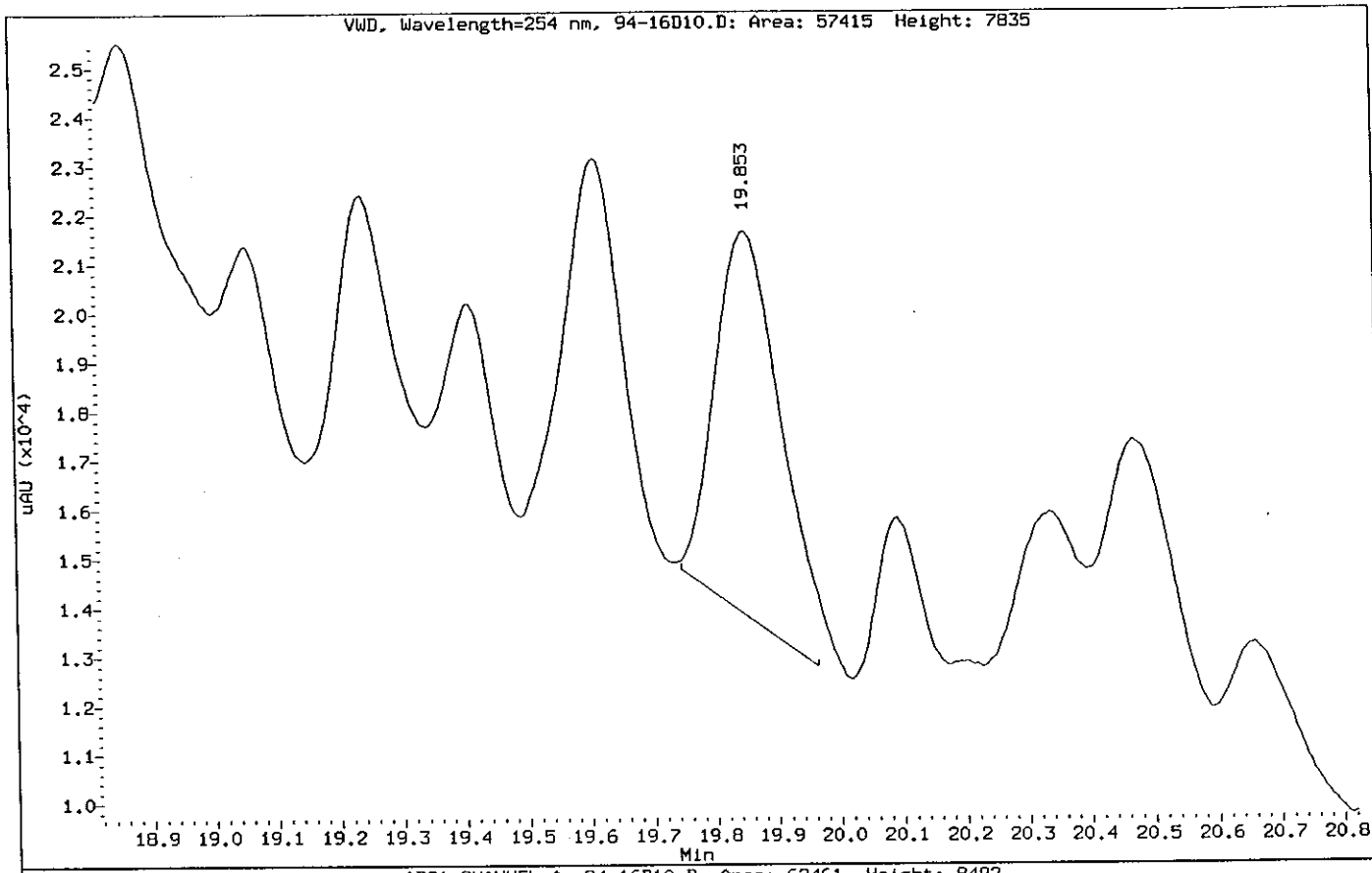


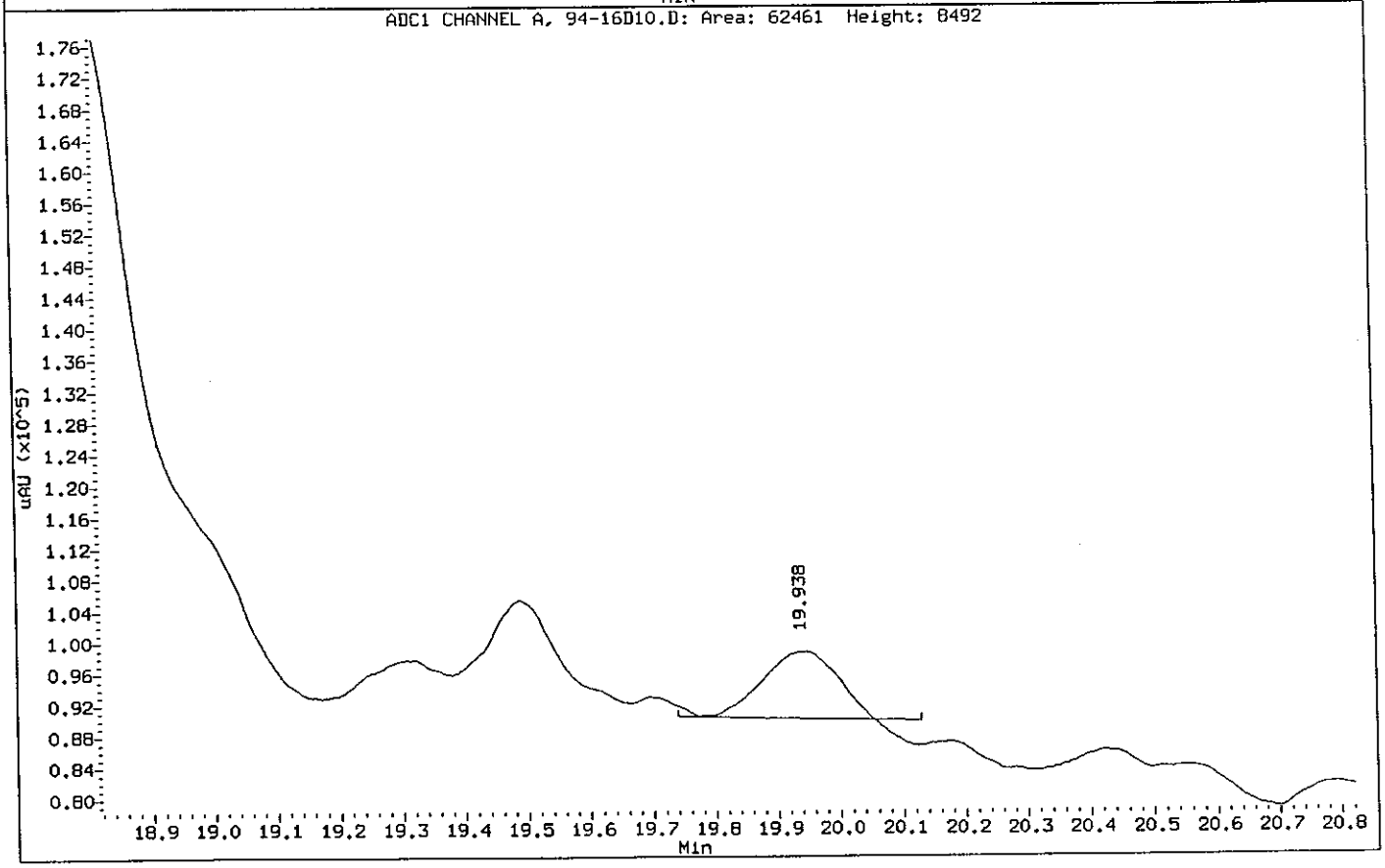


JMD

Data File: \\SVHPLC\ee\chem\slc02.i\L2102BR1.b\94-16D10.D
Injection Date: 29-OCT-2001 15:59
Instrument: slc02.i
Client Sample ID: 062B1675101801

Compound: Chrysene
CAS Number: 218-01-9





PEL Laboratories

Data file : \\SVHPLC\ee\chem\slc02.i\L21028R1.b\CCV5.D
Lab Smp Id: 15STD3206 Client Smp ID: 15STD3206
Inj Date : 29-OCT-2001 17:42
Operator : rood Inst ID: slc02.i
Smp Info : 15STD3206
Misc Info :
Comment :
Method : \\SVHPLC\ee\chem\slc02.i\L21028R1.b\8310S.m
Meth Date : 02-Nov-2001 08:36 jdonnelly Quant Type: ISTD
Cal Date : 28-OCT-2001 20:26 Cal File: PT2UGML.D
Als bottle: 21 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.04 Sample Matrix: SOIL
Processing Host: SVHPLC

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

					AMOUNTS CAL-AMT	ON-COL		
RT	EXP RT	REL RT	SIGNAL	RESPONSE	(ug/ml)	(ug/ml)	TARGET RANGE	RATIO
* 1 Carbazole (ISTD)						CAS #: 86-74-8		
10.990	10.610	(1.000)	VWD1A	244644			80.00- 120.00	100.00
11.079	10.610	(1.000)	ADC1A	1922280	10.0000		652.03- 978.05	785.75
2 Naphthalene						CAS #: 91-20-3		
12.063	11.770	(1.098)	VWD1A	82229	15.0000	15.1	80.00- 120.00	100.00(M)
12.151	11.770	(1.106)	ADC1A	86942	15.0000	14.7	82.40- 123.60	105.73
3 Acenaphthylene						CAS #: 208-96-8		
13.256	13.013	(1.206)	VWD1A	59095	15.0000	14.7		
4 1-Methyl naphthalene						CAS #: 90-12-0		
13.856	13.633	(1.261)	VWD1A	50382	15.0000	15.3	80.00- 120.00	100.00
13.946	13.633	(1.269)	ADC1A	185112	15.0000	15.2	296.60- 444.90	367.42

RT	EXP RT	REL RT	SIGNAL	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
5 2-Methyl naphthalene						CAS #: 91-57-6		
14.183	13.973	(1.291)	VWD1A	72442	15.0000	15.5	80.00- 120.00	100.00
14.273	13.973	(1.299)	ADC1A	167412	15.0000	16.2	191.55- 287.32	231.10
6 Acenaphthene						CAS #: 83-32-9		
14.513	14.310	(1.321)	VWD1A	31884	15.0000	15.1	80.00- 120.00	100.00
14.598	14.310	(1.328)	ADC1A	368991	15.0000	15.2	964.12-1446.17	1157.29
7 Fluorene						CAS #: 86-73-7		
14.866	14.680	(1.353)	VWD1A	374181	15.0000	15.4	80.00- 120.00	100.00
14.956	14.680	(1.361)	ADC1A	45678	15.0000	15.5	9.06- 13.59	12.21
8 Phenanthrene						CAS #: 85-01-8		
15.666	15.500	(1.426)	VWD1A	1030857	15.0000	15.2	80.00- 120.00	100.00(M)
15.758	15.500	(1.434)	ADC1A	992978	15.0000	15.4	78.58- 117.87	96.33
9 Anthracene						CAS #: 120-12-7		
16.373	16.223	(1.490)	VWD1A	2269810			80.00- 120.00	100.00
16.466	16.223	(1.498)	ADC1A	142592	15.0000	14.6	5.00- 7.50	6.28
10 Fluoranthene						CAS #: 206-44-0		
17.200	17.066	(1.565)	VWD1A	246728	15.0000	15.2	80.00- 120.00	100.00
17.296	17.066	(1.574)	ADC1A	17353			6.36- 9.54	7.03
11 Pyrene						CAS #: 129-00-0		
17.730	17.606	(1.613)	VWD1A	192787	15.0000	15.5	80.00- 120.00	100.00(M)
17.826	17.606	(1.622)	ADC1A	2346119	15.0000	14.1	930.64-1395.96	1216.95
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.680	18.593	(1.700)	VWD1A	225767	15.0000	15.7	80.00- 120.00	100.00
18.774	18.593	(1.708)	ADC1A	6147071	15.0000	15.6	2246.35-3369.53	2722.75
13 Benzo(a)Anthracene						CAS #: 56-55-3		
19.503	19.426	(1.775)	VWD1A	583148	15.0000	15.3	80.00- 120.00	100.00
19.598	19.426	(1.783)	ADC1A	6357593	15.0000	15.6	881.58-1322.37	1090.22
14 Chrysene						CAS #: 218-01-9		
19.886	19.820	(1.810)	VWD1A	847601	15.0000	15.6	80.00- 120.00	100.00(M)
19.983	19.820	(1.818)	ADC1A	1944452	15.0000	15.0	190.14- 285.21	229.41
15 Benzo(b)Fluoranthene						CAS #: 205-99-2		
21.293	21.253	(1.938)	VWD1A	660150	15.0000	15.7	80.00- 120.00	100.00
21.388	21.253	(1.946)	ADC1A	168965	15.0000	15.4	20.85- 31.28	25.59
16 Benzo(k)Fluoranthene						CAS #: 207-08-9		
21.910	21.883	(1.994)	VWD1A	492139	15.0000	15.4	80.00- 120.00	100.00

RT	EXP RT	REL RT	SIGNAL	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
16 Benzo(k)Fluoranthene (continued)								
22.009	21.883	(2.003)	ADC1A	326031	15.0000	15.6	52.76- 79.15	66.25
17 Benzo(a)pyrene						CAS #: 50-32-8		
22.496	22.476	(2.047)	VWD1A	575815	15.0000	15.4	80.00- 120.00	100.00
22.596	22.476	(2.056)	ADC1A	992450	15.0000	15.9	138.13- 207.19	172.36
18 Dibenz(ah)Anthracene						CAS #: 53-70-3		
23.486	23.493	(2.137)	VWD1A	130761	15.0000	15.8	80.00- 120.00	100.00
23.583	23.493	(2.146)	ADC1A	1556675	15.0000	15.7	949.04-1423.56	1190.47
19 Benzo(ghi)Perylene						CAS #: 191-24-2		
24.216	24.226	(2.204)	VWD1A	215743	15.0000	15.3	80.00- 120.00	100.00
24.316	24.226	(2.213)	ADC1A	440871	15.0000	15.4	155.32- 232.98	204.35
20 Indeno(123cd)Pyrene						CAS #: 193-39-5		
24.683	24.703	(2.246)	VWD1A	565194	15.0000	15.9	80.00- 120.00	100.00
24.969	24.703	(2.272)	ADC1A	55238			0.00- 0.00	9.77

QC Flag Legend

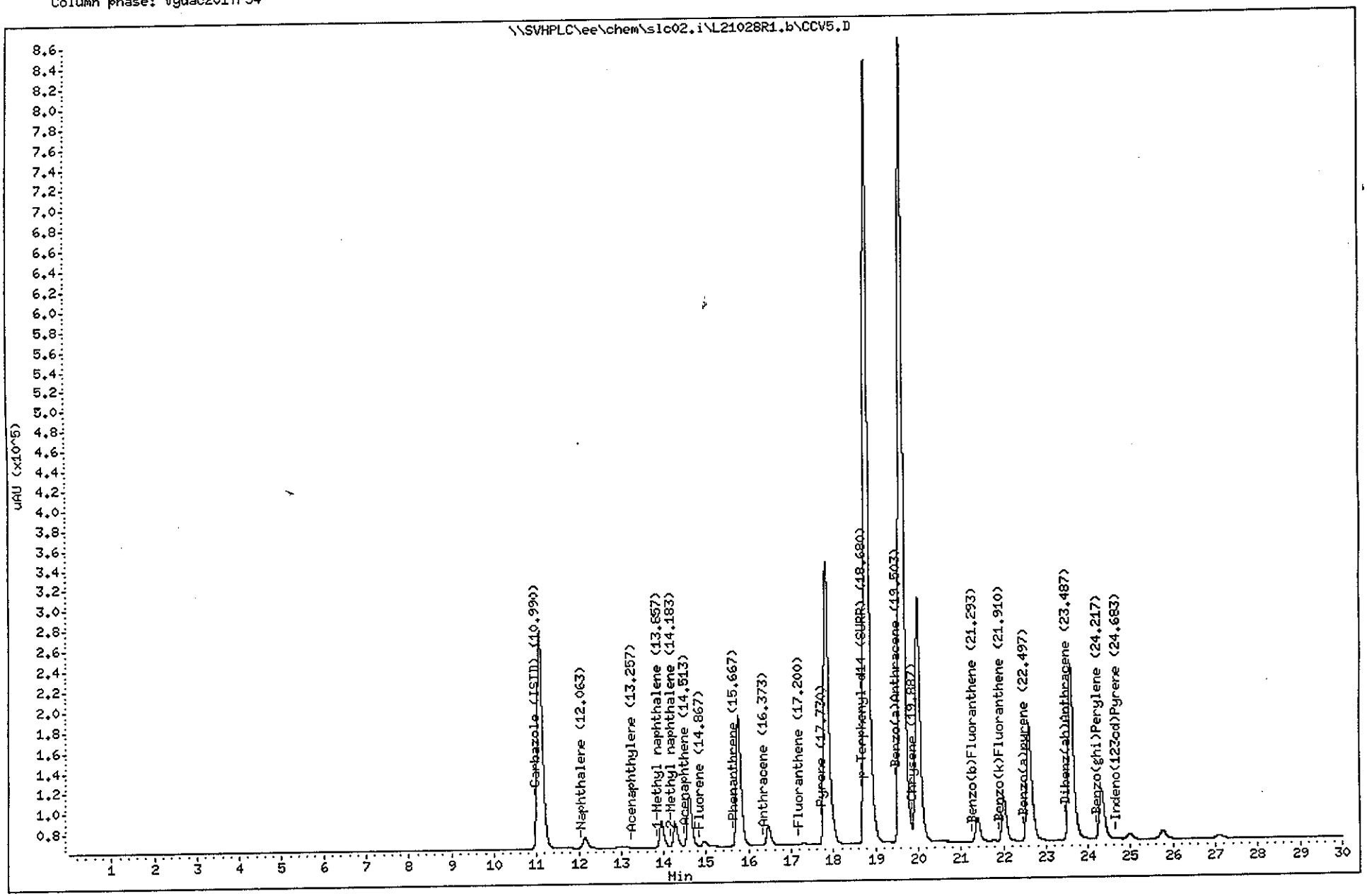
M - Compound response manually integrated.

Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\CCV5.D
Date : 29-OCT-2001 17:42
Client ID: 15STD3206
Sample Info: 15STD3206

Instrument: slc02.i

Operator: rood
Column diameter: 4.60

Column phase: Vydac201TP54



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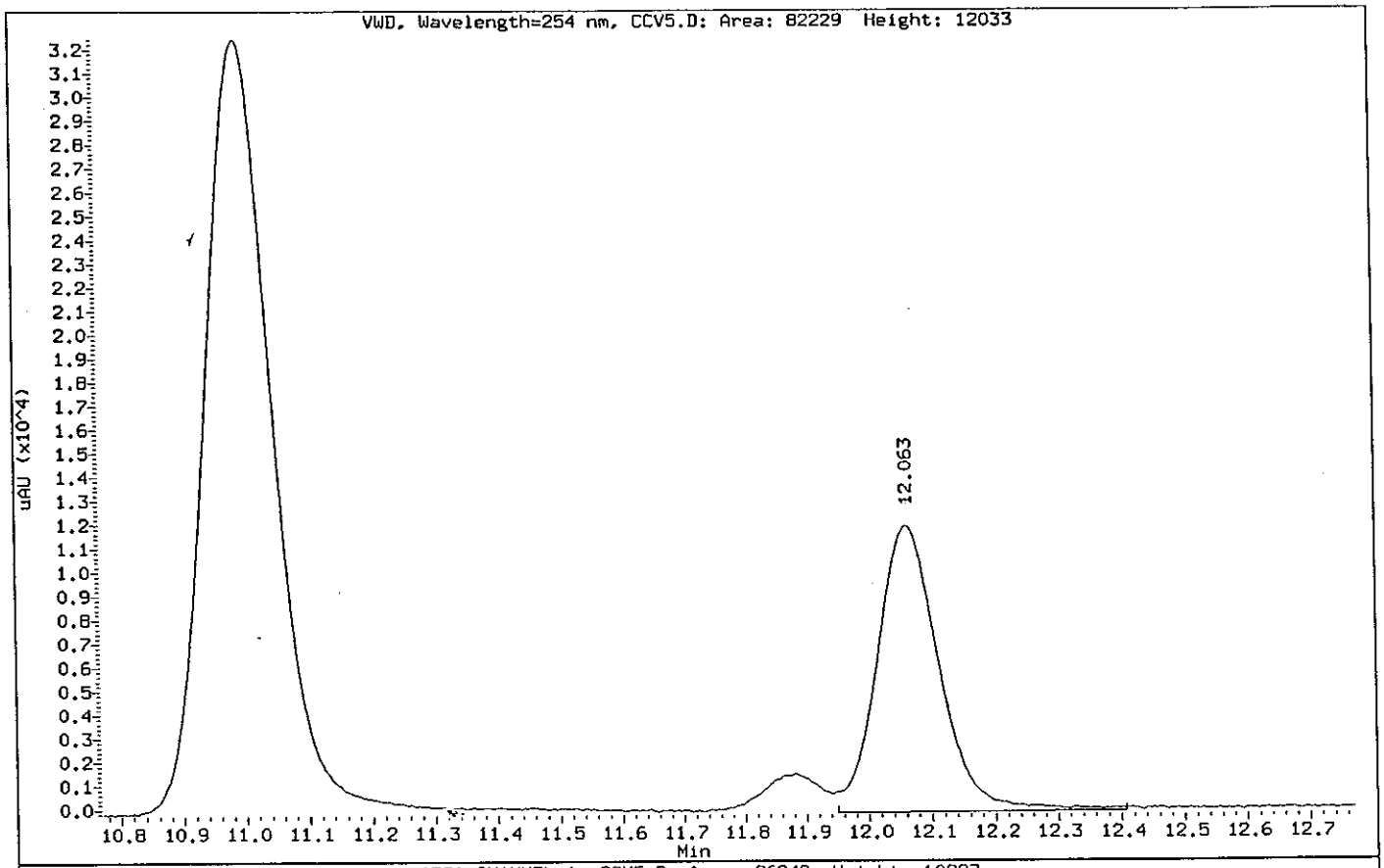
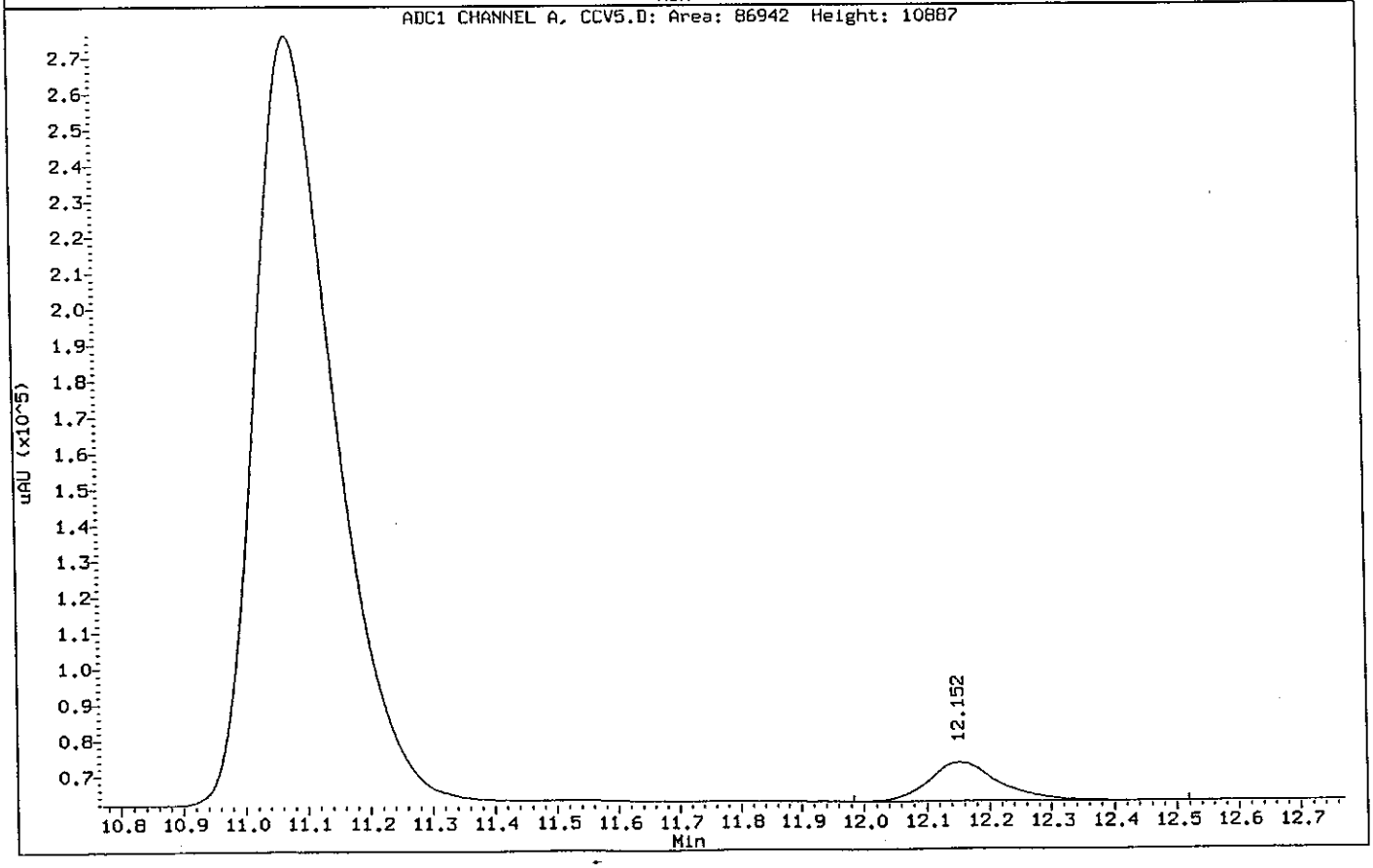
Injection Date: 29-OCT-2001 17:42
Instrument: slc02.i
Client Sample ID: 15STD3206

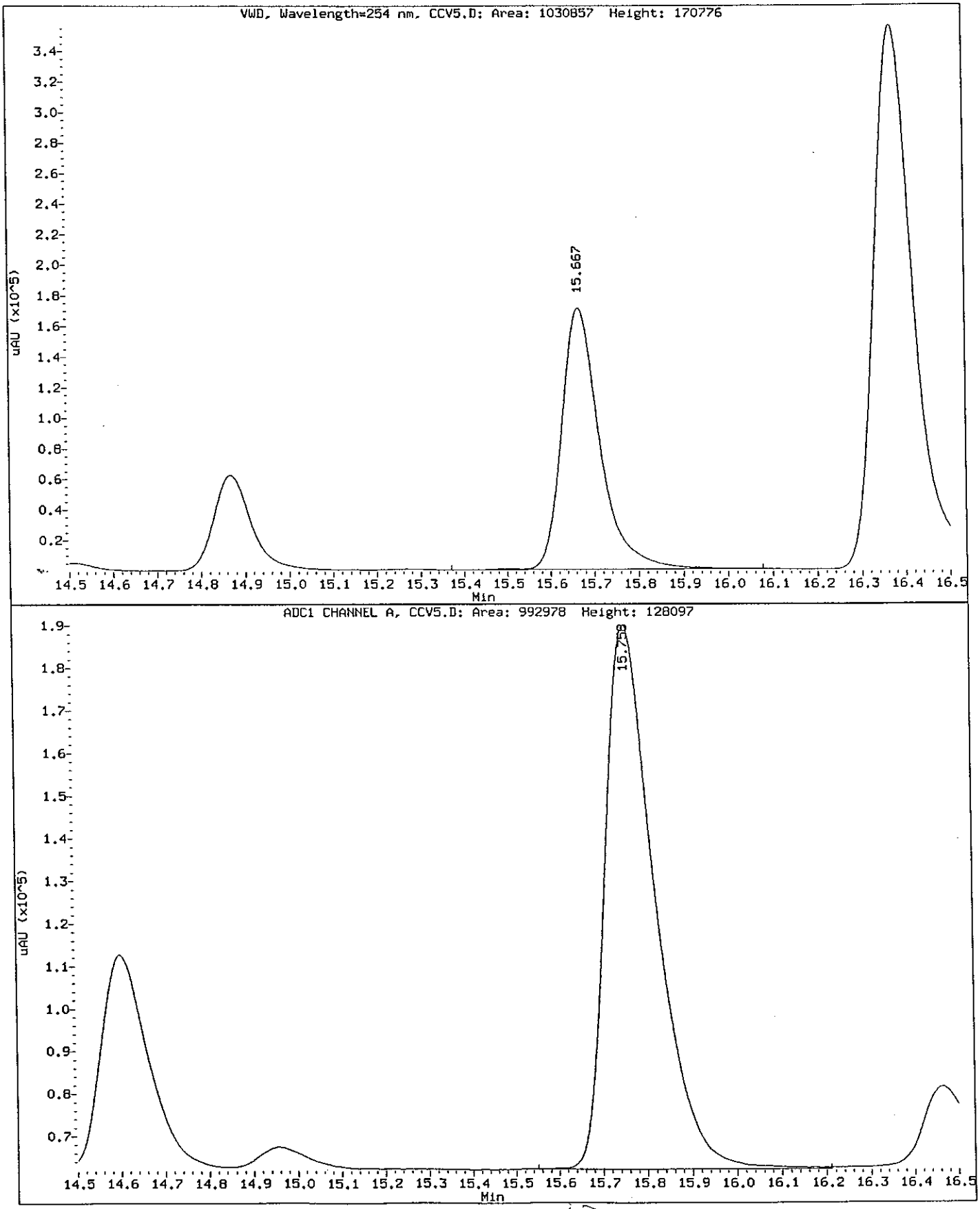
Compound: Naphthalene
CAS Number: 91-20-3





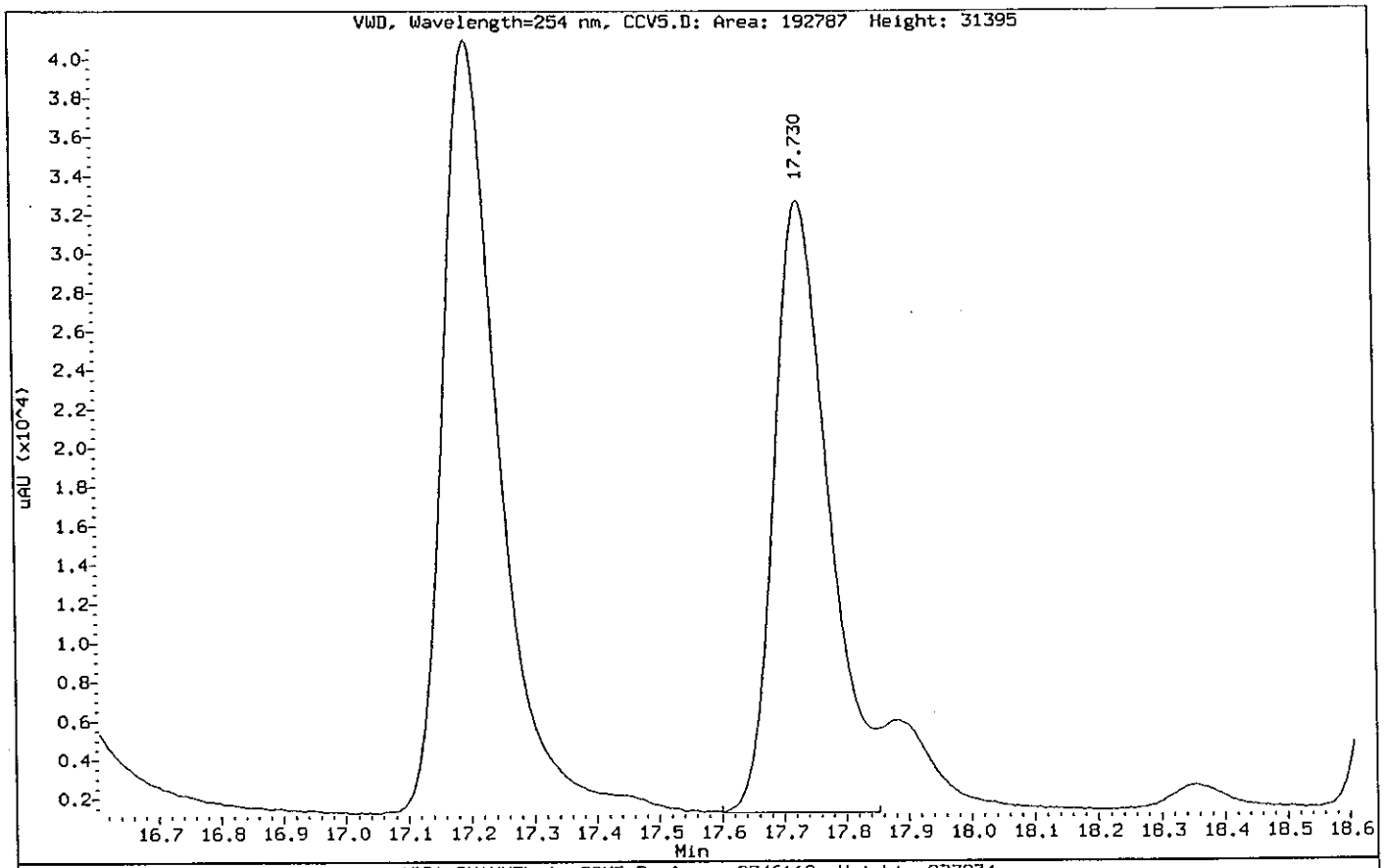
Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\CCV5.D
Injection Date: 29-OCT-2001 17:42
Instrument: slc02.i
Client Sample ID: 15STD3206

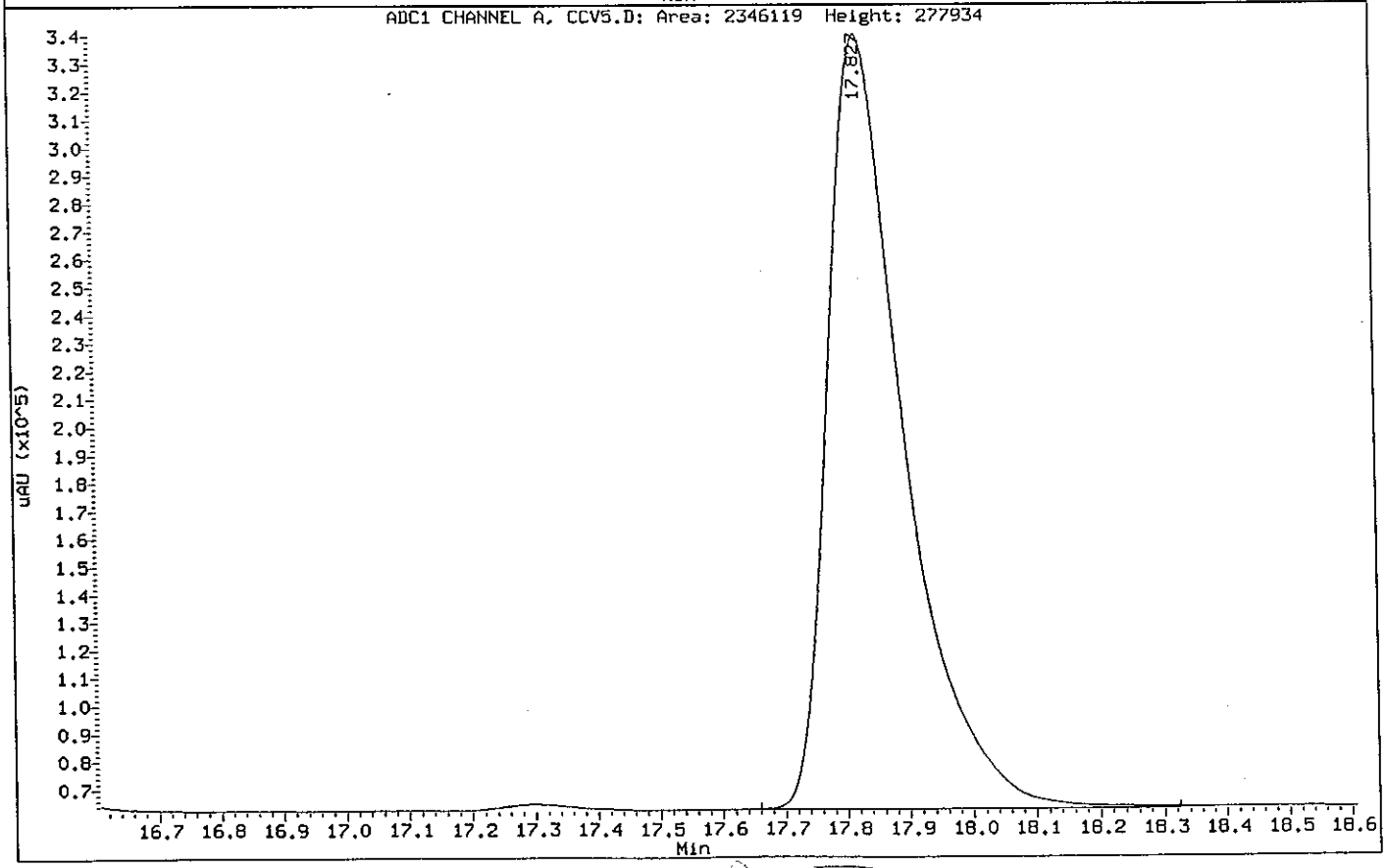
Compound: Phenanthrene
CAS Number: 85-01-8



Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\CCV5.D
Injection Date: 29-OCT-2001 17:42
Instrument: slc02.i
Client Sample ID: 15STD3206

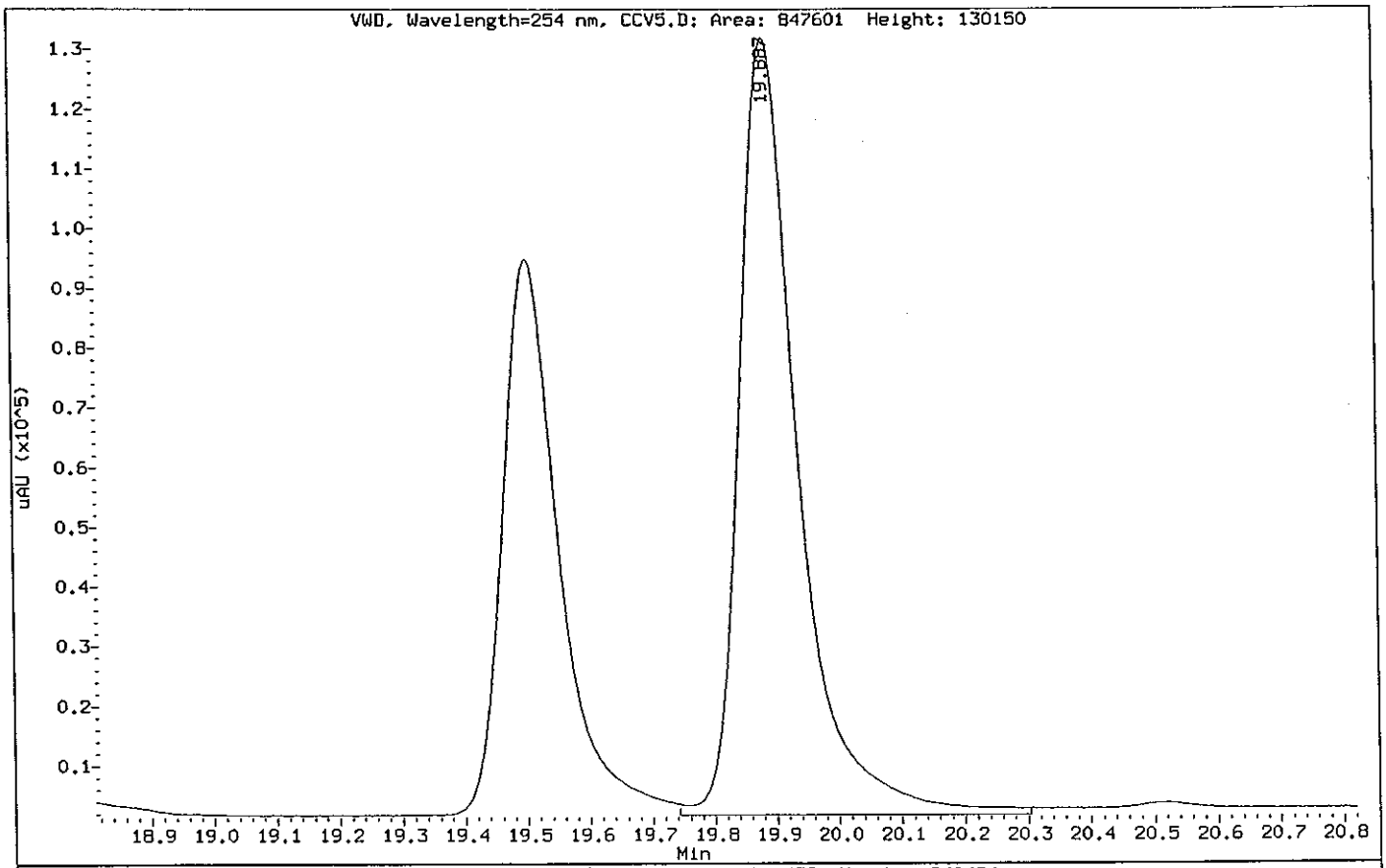
Compound: Pyrene
CAS Number: 129-00-0

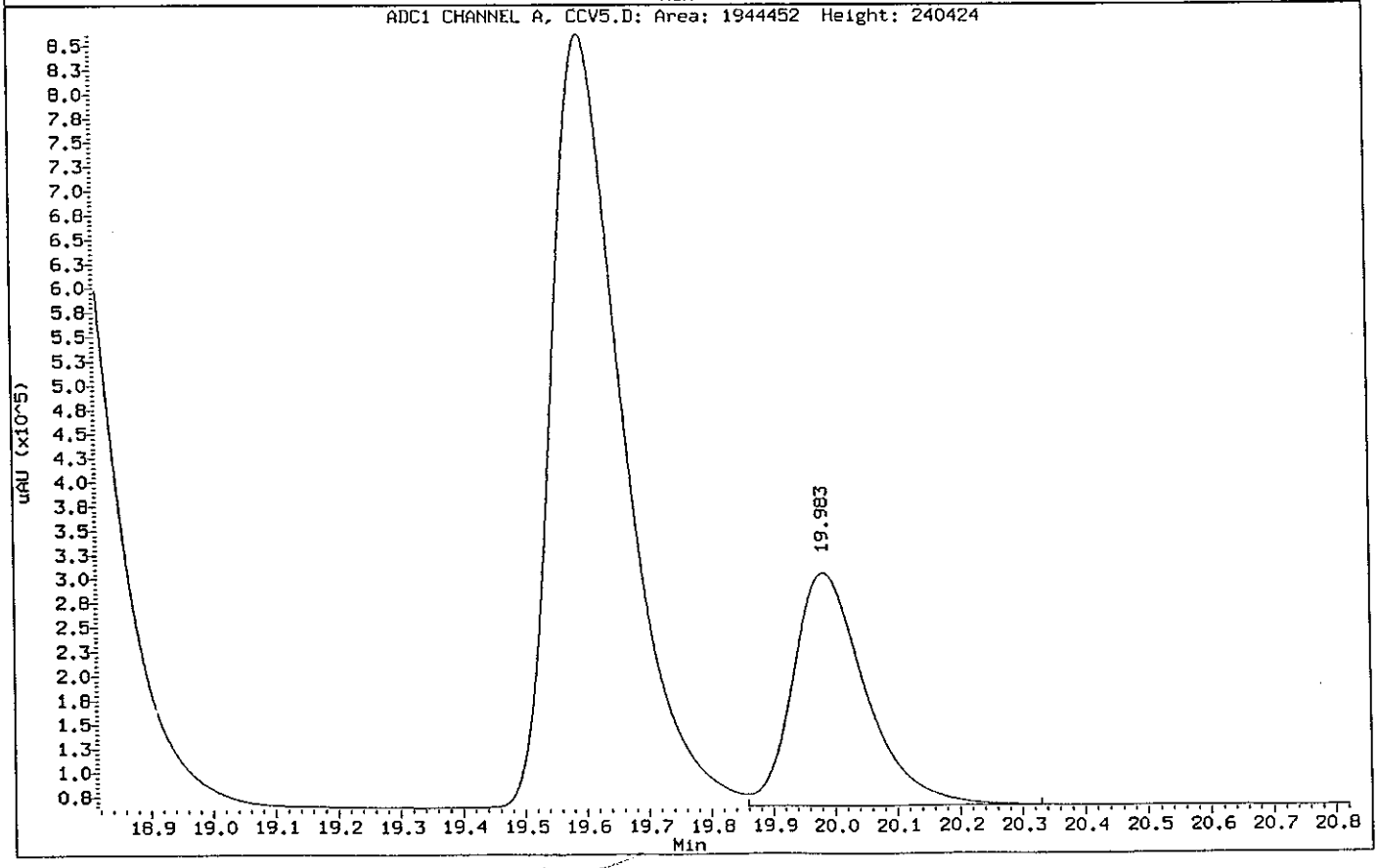




Data File: \\SVHPLC\ee\chem\slc02.i\L21028R1.b\CCV5.D
Injection Date: 29-OCT-2001 17:42
Instrument: slc02.i
Client Sample ID: 15STD3206

Compound: Chrysene
CAS Number: 218-01-9





2110-094
Raw Data
GC FL-PRO Organics

PEL LABORATORIES, INC.

DATE: 10/2

BATCH # 3727

Sample Number	BLANK	LCS	SS	SSD.	2110094 01	02	03	04	05	06
Sample Date					10/18/01					
Description					CH2M Hill 0620					
Odor					7S101801	31S101801	41S101801	70S101801	96S101801	99S101801
Color					NO	NO			yes	NO
Sed.					Brown	Brown			Lt Brown	Dk. Brown
Vol./ Wt. (g)	25.08	25.01	25.08	25.01	SAND	SAND				SAND
pH	N/A				25.05	25.03	25.03	25.03	25.07	25.07
Surrogate ID	0S139 + OTP	0S139F 1ml @ 600ug/ml.								
		1ml @ 100ug/ml				0S138F (OTP)				
Spike ID	N/A	0S140F 1ml @ 200ug/ml			N/A.					
ISTD	N/A.									
Final Solvent	DCM									
Final Vol. (ml)	2mL									
Date Completed/By:	10/25/01 VB									
Remarks									Small amount sample lost after sonication.	
Stock Loc. Box/Row	/	/	/	/	/	/	/	/	/	/
Spike Witness		AV	AV	AV						

OTTAWA SAND 0S177E

Base Lot # NP
Acid Lot# N/A
Extraction Lot # DCM. V38E14

Final Solvent Lot # V38E14

10-25-01

Bath Temp 70°C

DATE: 10/25/01

Batch # 3727

Sample Number	2110094 07	08 (MS)	09 (SD)	10	11	12	13	14	15	16
Sample Date	10/18/01									
Description	CH2M Hill 062B 101S101801	101S101801MS	101S101801SD	104S101801	106S101801	110S101801	137S101801	146S101801	158S101801	167S101801
Odor	NO			NO	NO	NO	NO	NO	NO	YES
Color	DK. Brown			DK. Brown		Lt. Brown	Brown	Lt. Brown	Lt. Brown	Brown
Sed.	SAND			SAND	SAND	SAND	SAND	SAND	SAND	SAND/H_2O
Vol./ Wt. (g)	25.01	25.05	25.02	25.03	25.05	25.03	25.07	25.06	25.04	25.03
pH	N/A									
Surrogate ID	~~OS0138F~~ 1ml 100ug/ml OS119F (OTP) OS0139F 1ml 600ug/ml (C-39)									
Spike ID	N/A	OS140F	1ml @ 200ug/ml	N/A						
ISTD	N/A									
Final Solvent	DCM									
Final Vol. (ml)	2ml									
Date Completed/By:	10/25/01 VB									
Remarks										
Stock Loc. Box/Row	B / 1	/	/	/	/	/	/	/	/	/
Spike Witness										

Base Lot # NP

Acid Lot# NP

Extraction Lot # N38E14

Final Solvent Lot # N38E14

Bath Temp 70°C

Batch # 3727.

Sample Number	2110094. 17	18	19.							
Sample Date	10/18/01.									
Description	CH2M Hill 062B189 S101801	062DUP 1S101801	062DUP2S 101801							
Odor	NO	NO	NO.							
Color	Lt. Brown	Brown	Brown							
Sed.	SAND.	SAND.	SAND							
Vol./ Wt.	25.05	25.05	25.05							
pH	N/A									
Surrogate ID	~~[illegible]~~ 1ml 100ug/ml 0S119F (CTP) 0S0139F 1ml ~~[illegible]~~ 100ug/ml (C-39)									
Spike ID	N/A									
ISTD	N/A									
Final Solvent	DCM									
Final Vol. (ml)	2ml									
Date Completed/By:	10/25/01 VB									
Remarks										
Stock Loc. Box/Row	B / 2	/	/	/	/	/	/	/	/	/
Spike Witness										

Base Lot # MA
Acid Lot# NA
Extraction Lot # DCM V38E14

Final Solvent Lot # V38E11

Bath Temp 70°C

10-22-01

F2102501.S

10-25-01

FLPROW

Vial	Sample Name
98	DCM1
1	Cal7SV3117
2	Cal6SV3118
3	Cal5SV3119
4	Cal4SV3120
5	Cal3SV3121
6	Cal2SV3122
7	Cal1SV3123
8	Secstd SV3124
3	CCV1SV3119
11	51391
12	51392
13	51393
14	51394
15	21100942O
16	21101190i ~~C1106~~ SGA
17	21101190Z
18	21101190 3
19	21101190 4
20	21101190 5
3	CCV2SV3119
21	21101190 6
22	21101190 7
23	21101190 8
24	21101240 1
3	CCV3SV3119
25	21101240 1
3	CCV4SV3119

SGA

10-25-01

PEL Laboratories

Data file : \\TYOUNG\ee\chem\sfid02.i\F2102501.b\CAL1.D
Lab Smp Id: CAL1SV3123 Client Smp ID: CAL1SV3123
Inj Date : 25-OCT-2001 18:26
Operator : sga Inst ID: sfid02.i
Smp Info : CAL1SV3123
Misc Info : Florida PRO
Comment :
Method : \\Tyoung\ee\chem\sfid02.i\F2102501.b\FLPROW.m
Meth Date : 02-Nov-2001 15:26 sallen Quant Type: ESTD
Cal Date : 25-OCT-2001 18:26 Cal File: CAL1.D
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.04
Processing Host: SVHPLC3

Concentration Formula: Amt * DF * (1/(Vi/1000)*Vf)

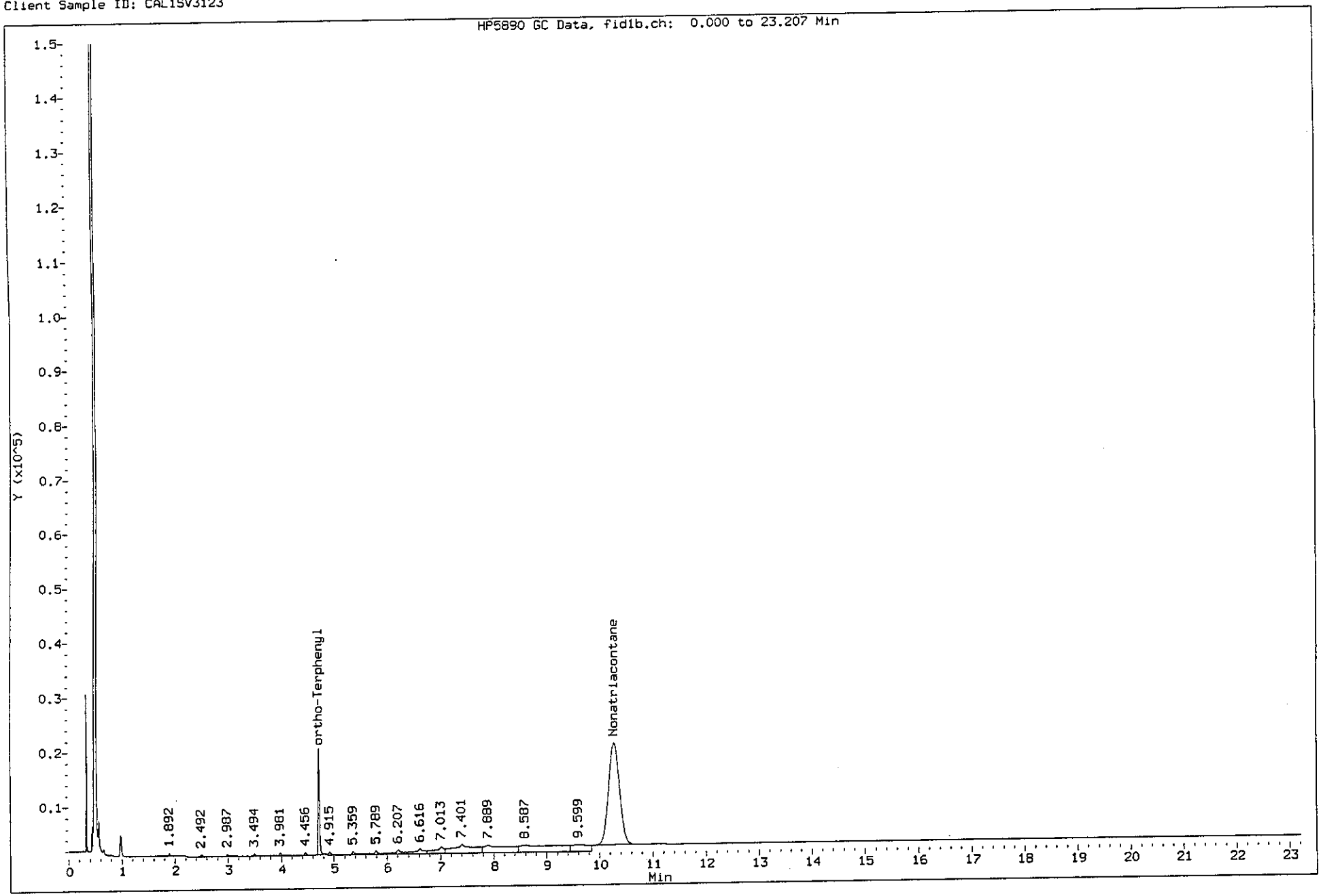
Name	Value	Description
DF	1.000	Dilution Factor
Vi	1000.000	Sample Initial Volume
Vf	2.000	Final Extract Volume

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/ml)	AMOUNTS ON-COL (mg/ml)
S 1 TPH (C8-C40)	1.700-12.278			1175476	0.03400	0.028(M)
$ 2 ortho-Terphenyl	4.713	4.716	-0.003	188967	0.05000	0.052(M)
$ 3 Nonatriacontane	10.276	10.276	0.000	1331941	0.30000	0.25(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid02.i\F2102501.b\CAL1.D
Injection Date: 25-OCT-2001 18:26
Instrument: sfid02.i
Client Sample ID: CAL15V3123



PEL Laboratories

Data file : \\TYOUNG\ee\chem\sfid02.i\F2102501.b\CAL2.D
Lab Smp Id: CAL2SV3122 Client Smp ID: CAL2SV3122
Inj Date : 25-OCT-2001 17:51
Operator : sga Inst ID: sfid02.i
Smp Info : CAL2SV3122
Misc Info : Florida PRO
Comment :
Method : \\Tyoung\ee\chem\sfid02.i\F2102501.b\FLPROW.m
Meth Date : 02-Nov-2001 15:26 sallen Quant Type: ESTD
Cal Date : 25-OCT-2001 17:51 Cal File: CAL2.D
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.04
Processing Host: SVHPLC3

Concentration Formula: Amt * DF * (1/(Vi/1000)*Vf)

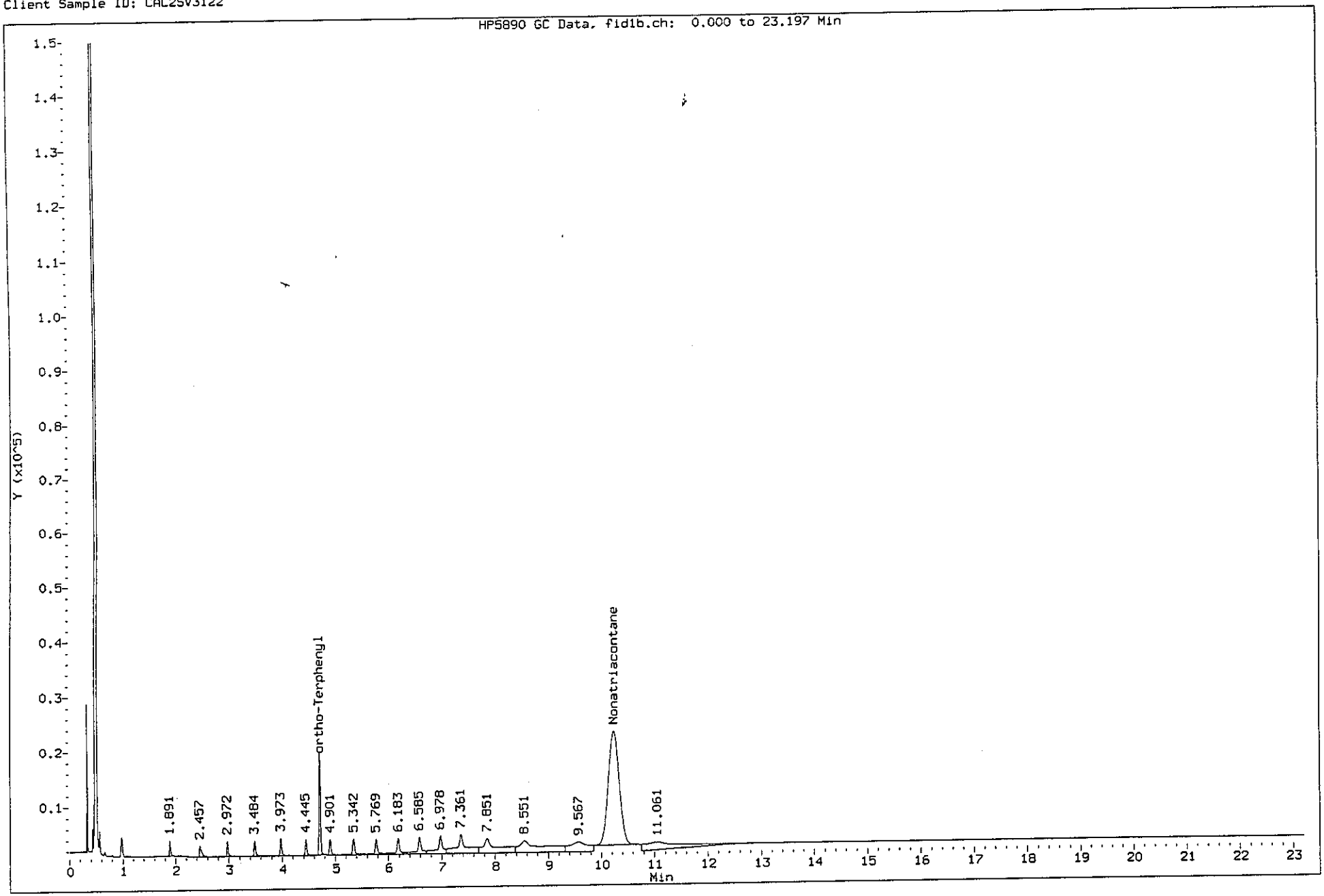
Name	Value	Description
DF	1.000	Dilution Factor
Vi	1000.000	Sample Initial Volume
Vf	2.000	Final Extract Volume

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/ml)	AMOUNTS ON-COL (mg/ml)
S	1 TPH (C8-C40)	1.700-12.278			1986024	0.17000	0.27(M)
$	2 ortho-Terphenyl	4.706	4.716	-0.010	174862	0.05000	0.048(M)
$	3 Nonatriacontane	10.243	10.276	-0.033	1490815	0.30000	0.29(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid02.i\F2102501.b\CAL2.D
Injection Date: 25-OCT-2001 17:51
Instrument: sfid02.i
Client Sample ID: CAL2SV3122



PEL Laboratories

Data file : \\TYOUNG\ee\chem\sfid02.i\F2102501.b\CAL3.D
Lab Smp Id: CAL3SV3121 Client Smp ID: CAL3SV3121
Inj Date : 25-OCT-2001 17:17
Operator : sga Inst ID: sfid02.i
Smp Info : CAL3SV3121
Misc Info : Florida PRO
Comment :
Method : \\Tyoung\ee\chem\sfid02.i\F2102501.b\FLPROW.m
Meth Date : 02-Nov-2001 15:26 sallen Quant Type: ESTD
Cal Date : 25-OCT-2001 17:17 Cal File: CAL3.D
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.04
Processing Host: SVHPLC3

Concentration Formula: Amt * DF * (1/(Vi/1000)*Vf)

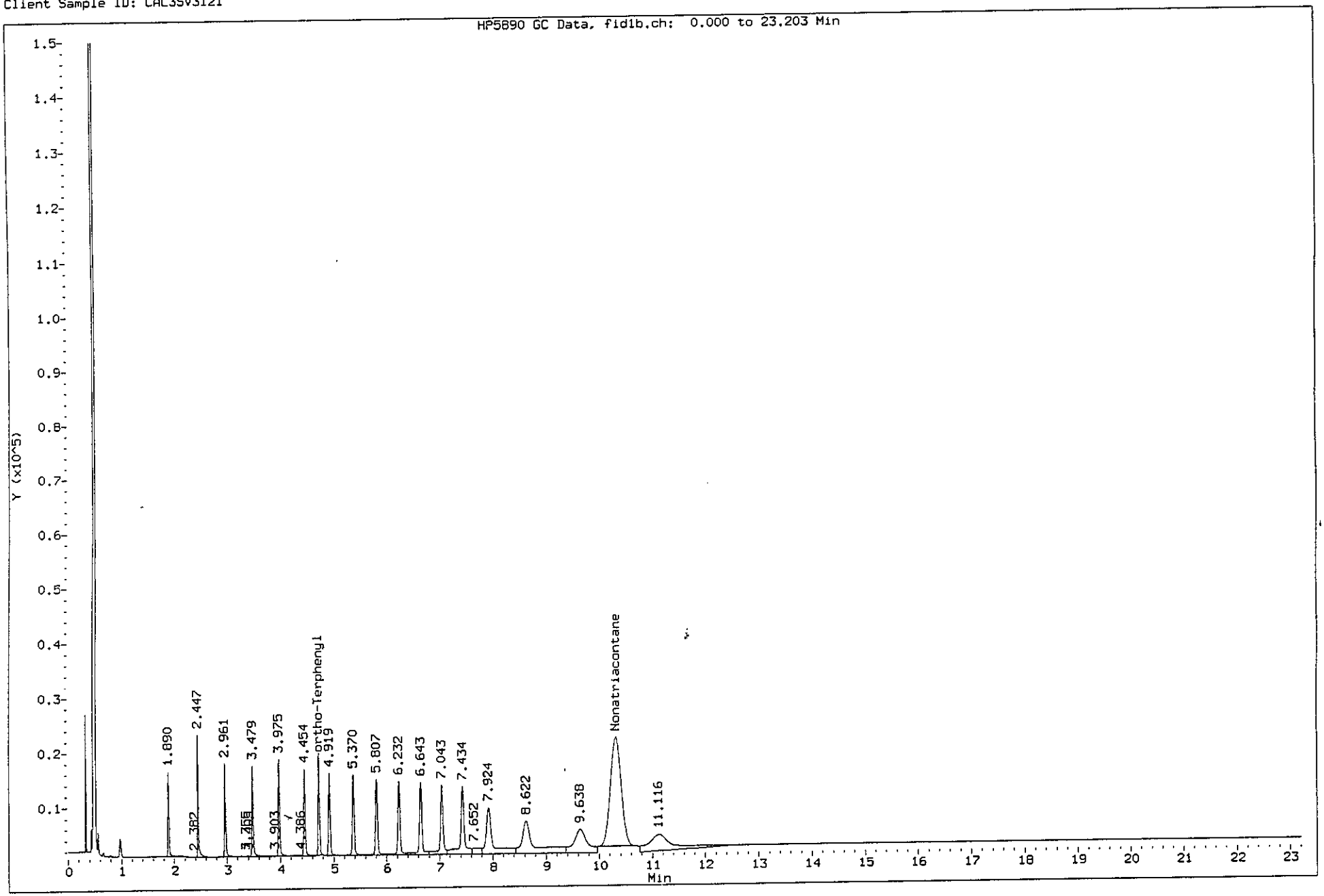
Name	Value	Description
DF	1.000	Dilution Factor
Vi	1000.000	Sample Initial Volume
Vf	2.000	Final Extract Volume

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/ml)	AMOUNTS ON-COL (mg/ml)
S 1 TPH (C8-C40)	1.700-12.278			4265805	0.85000	0.96(M)
$ 2 ortho-Terphenyl	4.723	4.716	0.007	176033	0.05000	0.049(M)
$ 3 Nonatriacontane	10.313	10.276	0.037	1414444	0.30000	0.28(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid02.i\F2102501.b\CAL3.D
Injection Date: 25-OCT-2001 17:17
Instrument: sfid02.i
Client Sample ID: CAL3SV3121



PEL Laboratories

Data file : \\TYOUNG\ee\chem\sfid02.i\F2102501.b\CAL4.D
Lab Smp Id: CAL4SV3120 Client Smp ID: CAL4SV3120
Inj Date : 25-OCT-2001 16:43
Operator : sga Inst ID: sfid02.i
Smp Info : CAL4SV3120
Misc Info : Florida PRO
Comment :
Method : \\Tyoung\ee\chem\sfid02.i\F2102501.b\FLPROW.m
Meth Date : 02-Nov-2001 15:26 sallen Quant Type: ESTD
Cal Date : 25-OCT-2001 16:43 Cal File: CAL4.D
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.04
Processing Host: SVHPLC3

Concentration Formula: Amt * DF * (1/(Vi/1000)*Vf)

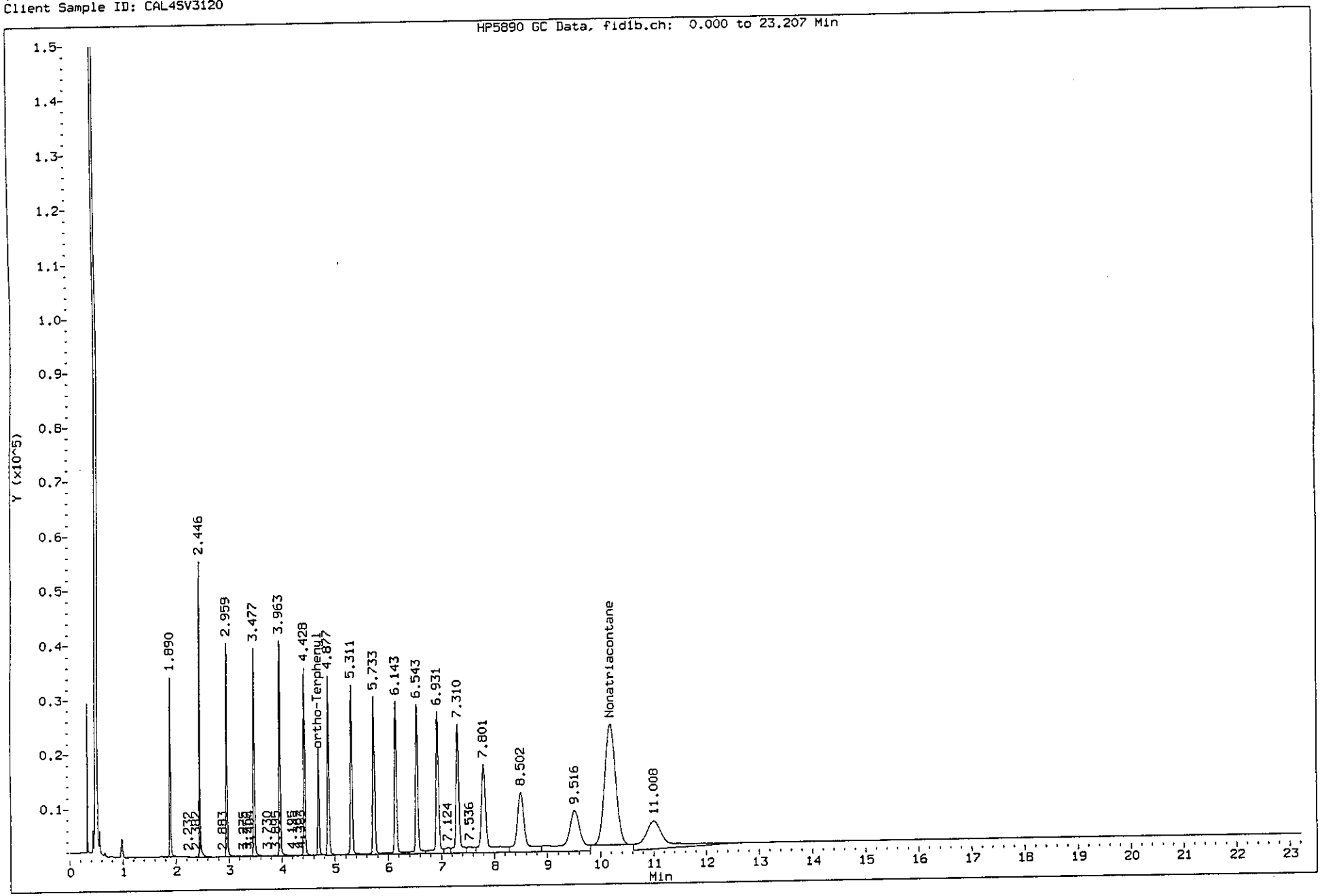
Name	Value	Description
DF	1.000	Dilution Factor
Vi	1000.000	Sample Initial Volume
Vf	2.000	Final Extract Volume

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/ml)	AMOUNTS ON-COL (mg/ml)
$ 1 TPH (C8-C40)	1.700-12.278			7240723	1.70000	1.8(M)
$ 2 ortho-Terphenyl	4.690	4.716	-0.026	181030	0.05000	0.050(M)
$ 3 Nonatriacontane	10.196	10.276	-0.080	1587755	0.30000	0.32(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid02.i\F2102501.b\CAL4.D
Injection Date: 25-OCT-2001 16:43
Instrument: sfid02.i
Client Sample ID: CAL4SV3120



PEL Laboratories

Data file : \\TYOUNG\ee\chem\sfid02.i\F2102501.b\CAL5.D
Lab Smp Id: CAL5SV3119 Client Smp ID: CAL5SV3119
Inj Date : 25-OCT-2001 16:08
Operator : sga Inst ID: sfid02.i
Smp Info : CAL5SV3119
Misc Info : Florida PRO
Comment :
Method : \\Tyoung\ee\chem\sfid02.i\F2102501.b\FLPROW.m
Meth Date : 02-Nov-2001 15:26 sallen Quant Type: ESTD
Cal Date : 25-OCT-2001 16:08 Cal File: CAL5.D
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.04
Processing Host: SVHPLC3

Concentration Formula: Amt * DF * (1/(Vi/1000)*Vf)

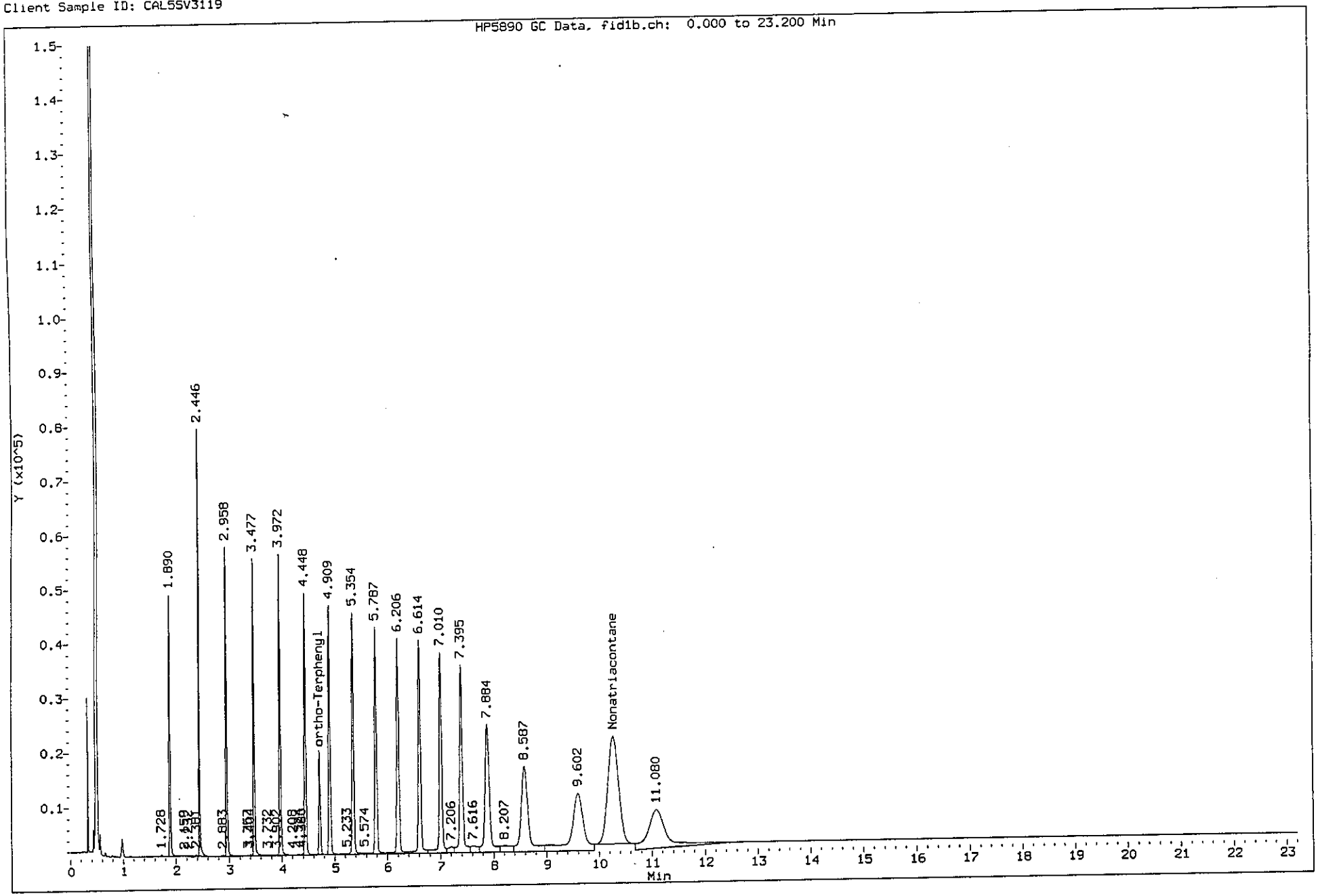
Name	Value	Description
DF	1.000	Dilution Factor
Vi	1000.000	Sample Initial Volume
Vf	2.000	Final Extract Volume

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/ml)	AMOUNTS ON-COL (mg/ml)
S 1 TPH (C8-C40)	1.700-12.278			9833902	2.55000	2.6(M)
$ 2 ortho-Terphenyl	4.716	4.716	0.000	175424	0.05000	0.049(M)
$ 3 Nonatriacontane	10.276	10.276	0.000	1398976	0.30000	0.29(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid02.i\F2102501.b\CAL5.D
Injection Date: 25-OCT-2001 16:08
Instrument: sfid02.i
Client Sample ID: CAL5SV3119



PEL Laboratories

Data file : \\TYOUNG\ee\chem\sfid02.i\F2102501.b\CAL6.D
Lab Smp Id: CAL6SV3118 Client Smp ID: CAL6SV3118
Inj Date : 25-OCT-2001 15:33
Operator : sga Inst ID: sfid02.i
Smp Info : CAL6SV3118
Misc Info : Florida PRO
Comment :
Method : \\Tyoung\ee\chem\sfid02.i\F2102501.b\FLPROW.m
Meth Date : 02-Nov-2001 15:26 sallen Quant Type: ESTD
Cal Date : 25-OCT-2001 15:33 Cal File: CAL6.D
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.04
Processing Host: SVHPLC3

Concentration Formula: Amt * DF * (1/(Vi/1000)*Vf)

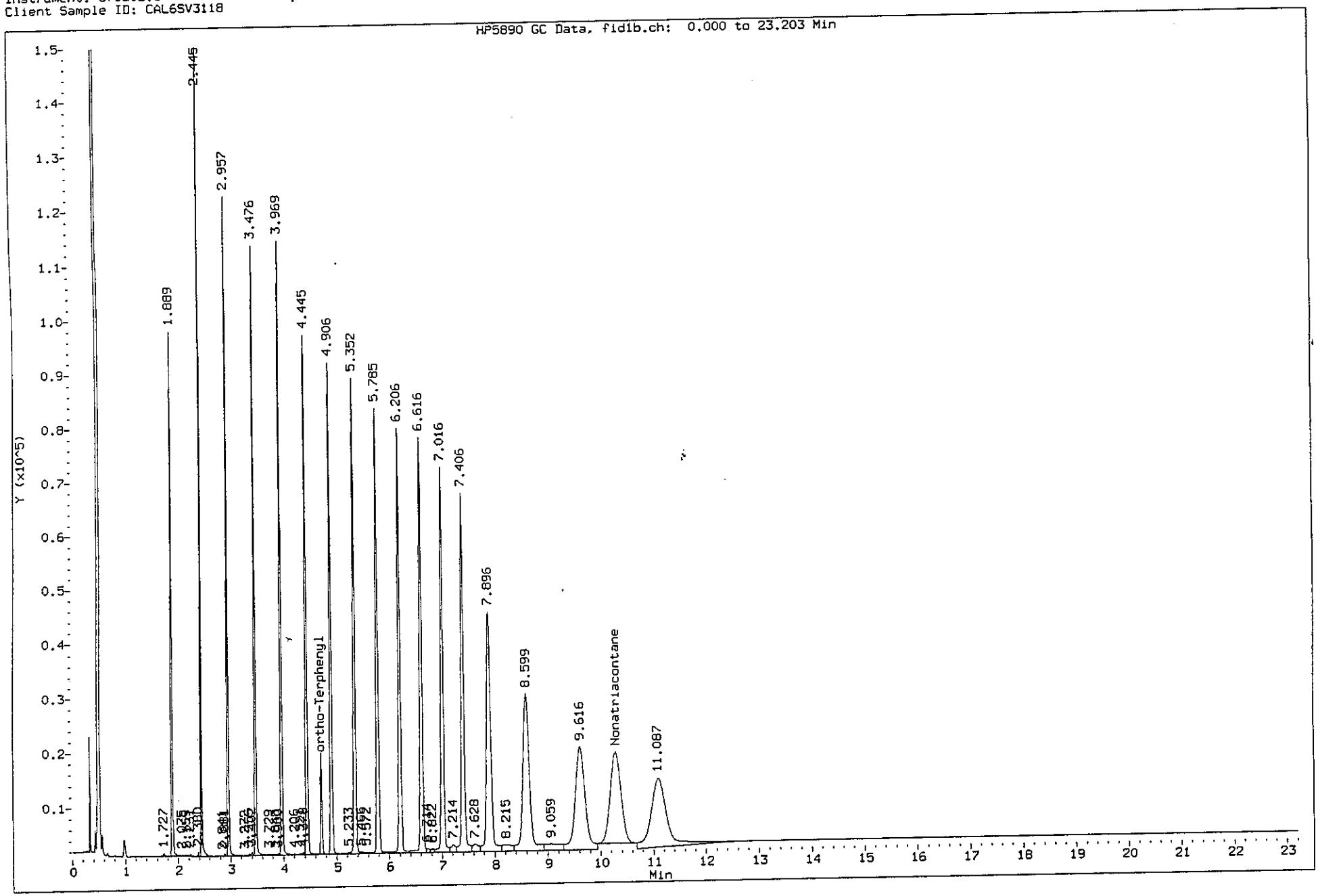
Name	Value	Description
DF	1.000	Dilution Factor
Vi	1000.000	Sample Initial Volume
Vf	2.000	Final Extract Volume

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/ml)	AMOUNTS ON-COL (mg/ml)
S 1 TPH (C8-C40)	1.700-12.278			18022787	5.10000	5.1(M)
$ 2 ortho-Terphenyl	4.713	4.716	-0.003	174116	0.05000	0.049(M)
$ 3 Nonatriacontane	10.286	10.276	0.010	1179217	0.30000	0.25(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid02.i\F2102501.b\CAL6.D
Injection Date: 25-OCT-2001 15:33
Instrument: sfid02.i
Client Sample ID: CAL6SV3118



PEL Laboratories

Data file : \\TYOUNG\ee\chem\sfid02.i\F2102501.b\CAL7.D
Lab Smp Id: CAL7SV3117 Client Smp ID: CAL7SV3117
Inj Date : 25-OCT-2001 14:58
Operator : sga Inst ID: sfid02.i
Smp Info : CAL7SV3117
Misc Info : Florida PRO
Comment :
Method : \\Tyoung\ee\chem\sfid02.i\F2102501.b\FLPROW.m
Meth Date : 02-Nov-2001 15:26 sallen Quant Type: ESTD
Cal Date : 25-OCT-2001 14:58 Cal File: CAL7.D
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.04
Processing Host: SVHPLC3

Concentration Formula: Amt * DF * (1/(Vi/1000)*Vf)

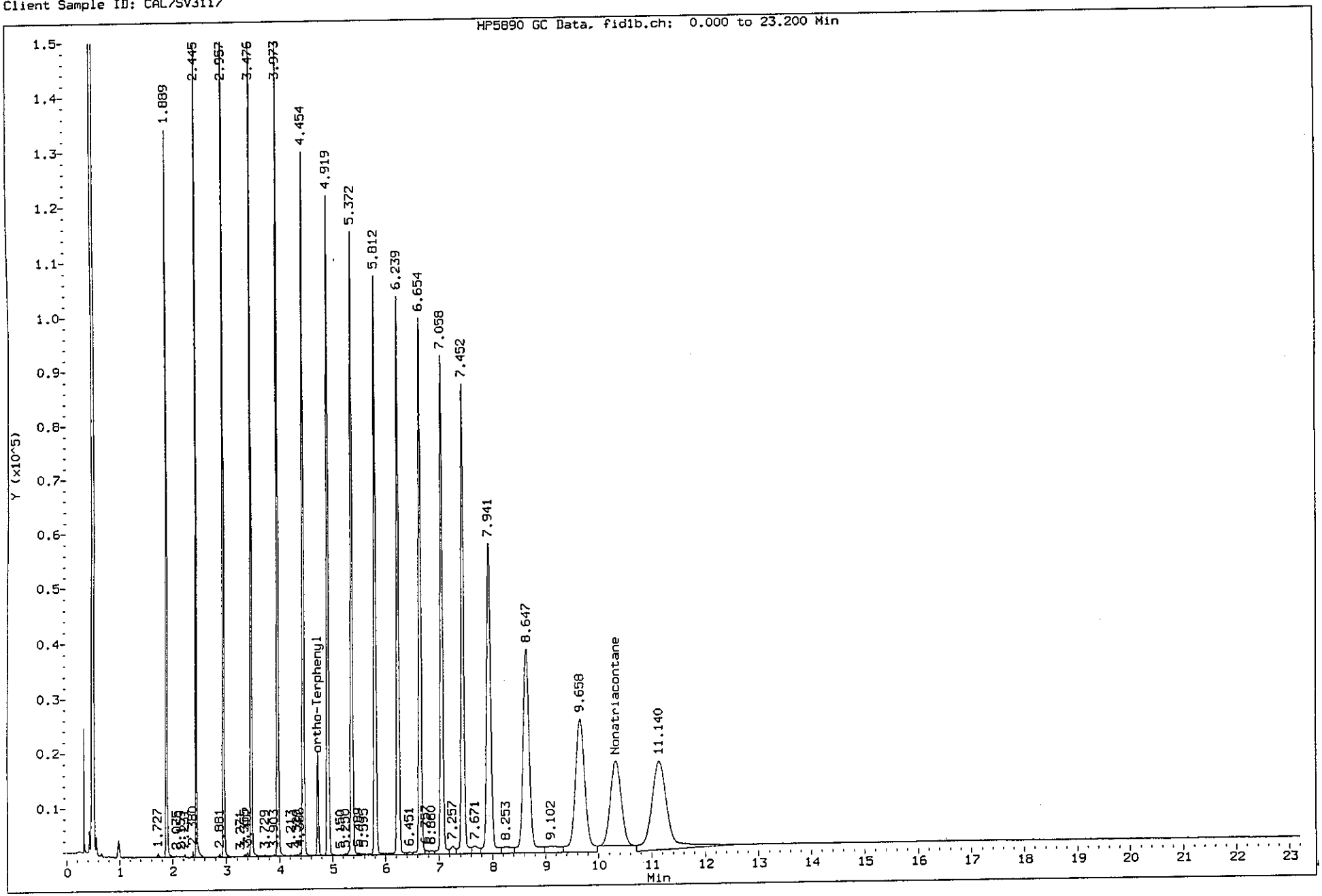
Name	Value	Description
DF	1.000	Dilution Factor
Vi	1000.000	Sample Initial Volume
Vf	2.000	Final Extract Volume

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/ml)	AMOUNTS ON-COL (mg/ml)
S 1 TPH (C8-C40)	1.700-12.278			23354712	6.80000	6.7(M)
$ 2 ortho-Terphenyl	4.723	4.716	0.007	177930	0.05000	0.050(M)
$ 3 Nonatriacontane	10.330	10.276	0.054	1097275	0.30000	0.24(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid02.i\F2102501.b\CAL7.D
Injection Date: 25-OCT-2001 14:58
Instrument: sfid02.i
Client Sample ID: CAL7SV3117



PEL Laboratories

Data file : \\TYOUNG\ee\chem\sfid02.i\F2102501.b\CCV1.D
Lab Smp Id: CCV1SV3119 Client Smp ID: CCV1SV3119
Inj Date : 25-OCT-2001 19:33
Operator : sga Inst ID: sfid02.i
Smp Info : CCV1SV3119
Misc Info : Florida PRO
Comment :
Method : \\Tyoung\ee\chem\sfid02.i\F2102501.b\FLPROW.m
Meth Date : 02-Nov-2001 15:30 sallen Quant Type: ESTD
Cal Date : 25-OCT-2001 14:58 Cal File: CAL7.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.04
Processing Host: SVHPLC3

Concentration Formula: Amt * DF * (1/(Vi/1000)*Vf)

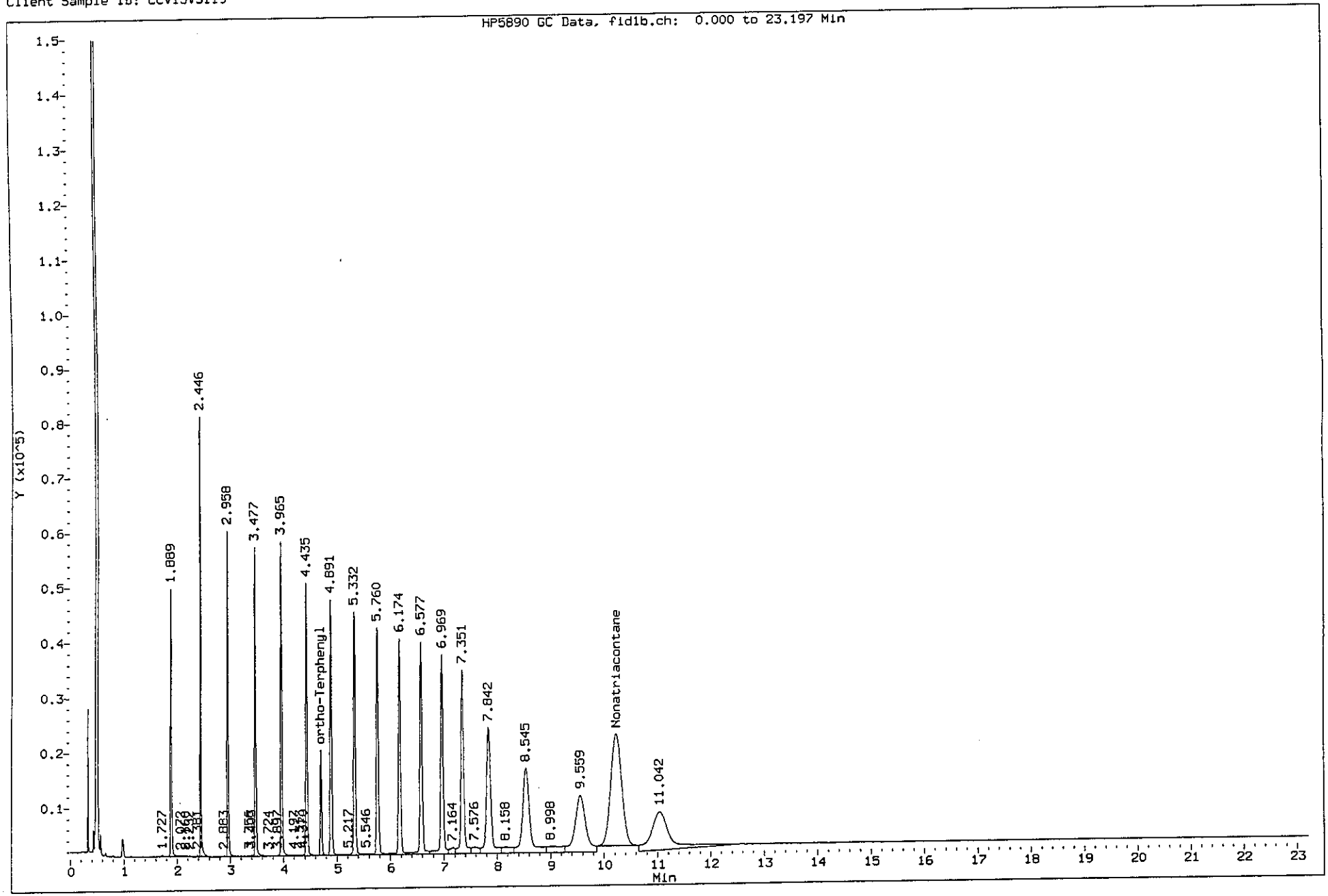
Name	Value	Description
DF	1.000	Dilution Factor
Vi	1000.000	Sample Initial Volume
Vf	2.000	Final Extract Volume

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/ml)	AMOUNTS ON-COL (mg/ml)
S 1 TPH (C8-C40)	1.700-12.278			9875789	2.55000	2.6(M)
$ 2 ortho-Terphenyl	4.703	4.716	-0.013	179070	0.05000	0.050(M)
$ 3 Nonatriacontane	10.236	10.276	-0.040	1459154	0.30000	0.32(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid02.i\F2102501.b\CCV1.D
Injection Date: 25-OCT-2001 19:33
Instrument: sfid02.i
Client Sample ID: CCV1SV3119



PEL Laboratories

Data file : \\TYOUNG\ee\chem\sfid02.i\F2102501.b\1025LCS.D
Lab Smp Id: 51392 Client Smp ID: 1025LCSA
Inj Date : 25-OCT-2001 20:41
Operator : sga Inst ID: sfid02.i
Smp Info : 51392
Misc Info : Florida PRO
Comment :
Method : \\Tyoung\ee\chem\sfid02.i\F2102501.b\FLPROW.m
Meth Date : 02-Nov-2001 15:30 sallen Quant Type: ESTD
Cal Date : 25-OCT-2001 14:58 Cal File: CAL7.D
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: rl.sub
Target Version: 4.04
Processing Host: SVHPLC3

Concentration Formula: Amt * DF * (1/(Vi/1000)*Vf)

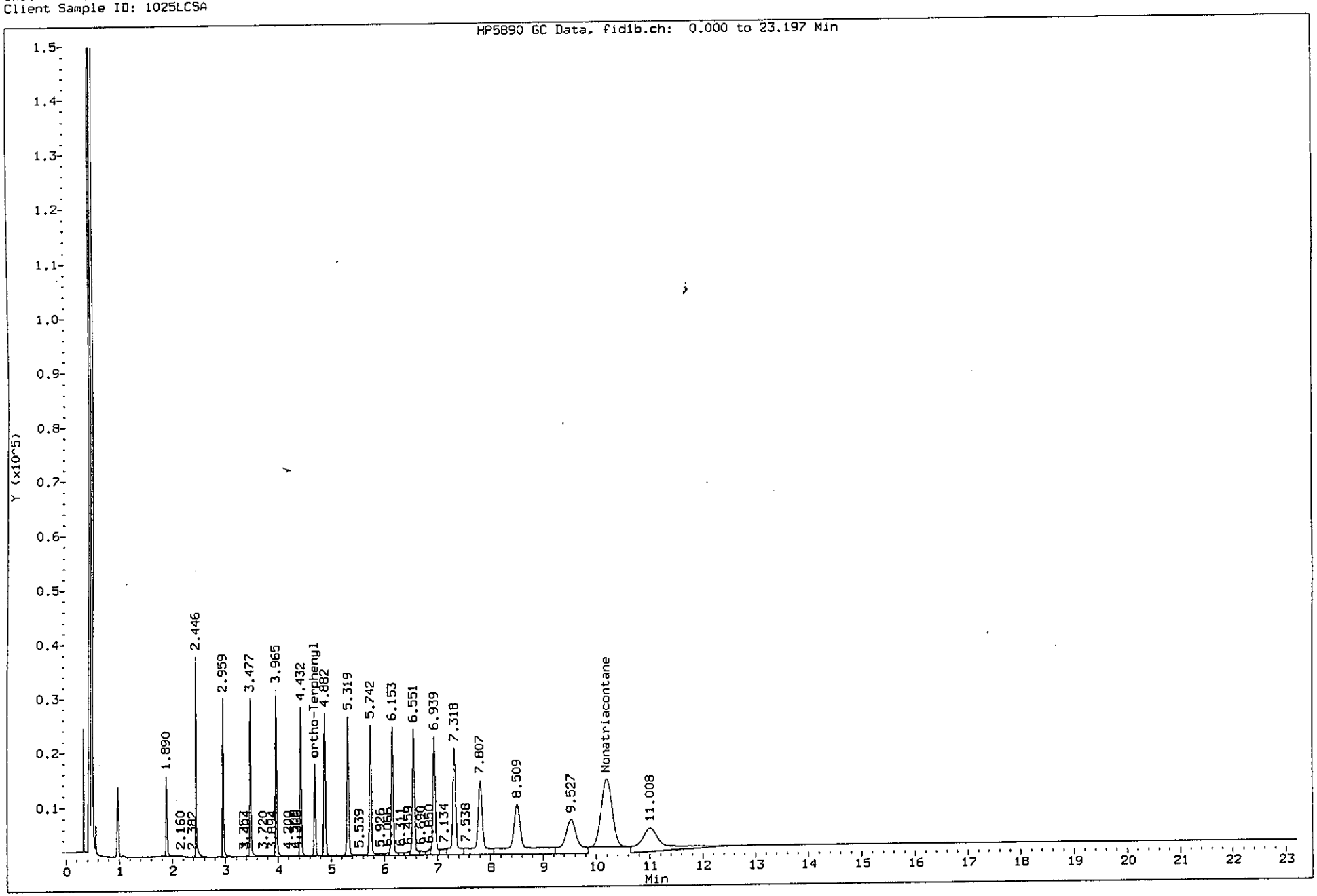
Name	Value	Description
DF	1.000	Dilution Factor
Vi	1000.000	Sample Initial Volume
Vf	2.000	Final Extract Volume

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/ml)	CONCENTRATIONS FINAL (mg/L)
S 1 TPH (C8-C40)	1.700-12.278			6068728	1.42859	2.8(M)
$ 2 ortho-Terphenyl	4.696	4.716	-0.020	155103	0.04349	0.087(M)
$ 3 Nonatriacontane	10.180	10.276	-0.096	887161	0.19610	0.39(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid02.i\F2102501.b\1025LCS.D
Injection Date: 25-OCT-2001 20:41
Instrument: sfid02.i
Client Sample ID: 1025LCSA



PEL Laboratories

Data file : \\TYOUNG\ee\chem\sfid02.i\F2102501.b\1025MS.D
Lab Smp Id: 51393 Client Smp ID: 1025BLKWMS
Inj Date : 25-OCT-2001 21:15
Operator : sga Inst ID: sfid02.i
Smp Info : 51393
Misc Info : Florida PRO
Comment :
Method : \\Tyoung\ee\chem\sfid02.i\F2102501.b\FLPROW.m
Meth Date : 02-Nov-2001 15:30 sallen Quant Type: ESTD
Cal Date : 25-OCT-2001 14:58 Cal File: CAL7.D
Als bottle: 1 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: rl.sub
Target Version: 4.04
Processing Host: SVHPLC3

Concentration Formula: Amt * DF * (1/(Vi/1000)*Vf)

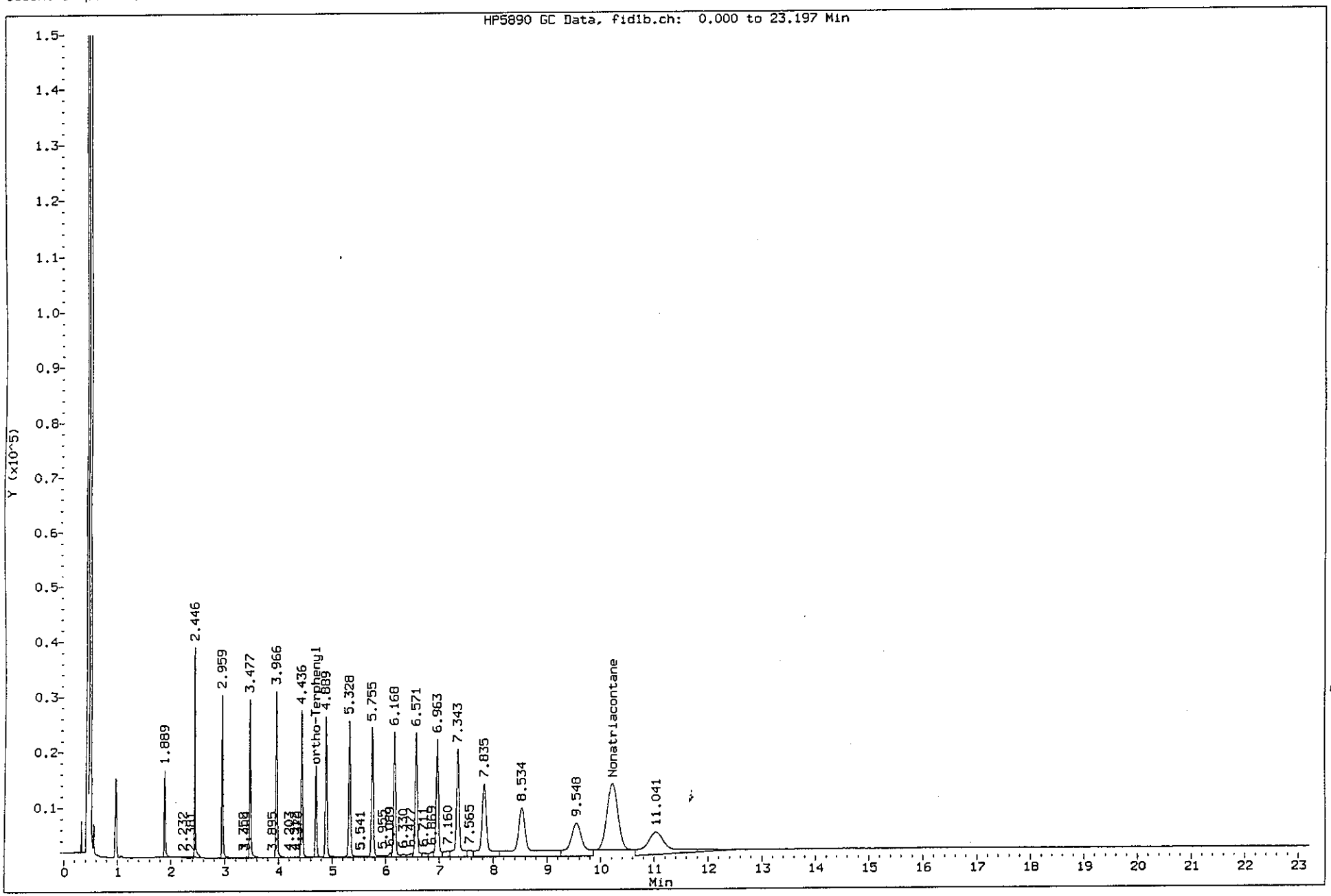
Name	Value	Description
DF	1.000	Dilution Factor
Vi	1000.000	Sample Initial Volume
Vf	2.000	Final Extract Volume

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/ml)	CONCENTRATIONS FINAL (mg/L)
S	1 TPH (C8-C40)	1.700-12.278			6000891	1.40770	2.8(M)
$	2 ortho-Terphenyl	4.700	4.716	-0.016	153625	0.04307	0.086(M)
$	3 Nonatriacontane	10.233	10.276	-0.043	850962	0.18810	0.38(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid02.i\F2102501.b\1025MS.D
Injection Date: 25-OCT-2001 21:15
Instrument: sfid02.i
Client Sample ID: 1025BLKWMS



PEL Laboratories

Data file : \\TYOUNG\ee\chem\sfid02.i\F2102501.b\1025MSD.D
Lab Smp Id: 51394 Client Smp ID: 1025BLKWSD
Inj Date : 25-OCT-2001 21:48
Operator : sga Inst ID: sfid02.i
Smp Info : 51394
Misc Info : Florida PRO
Comment :
Method : \\Tyoung\ee\chem\sfid02.i\F2102501.b\FLPROW.m
Meth Date : 02-Nov-2001 15:30 sallen Quant Type: ESTD
Cal Date : 25-OCT-2001 14:58 Cal File: CAL7.D
Als bottle: 1 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: rl.sub
Target Version: 4.04
Processing Host: SVHPLC3

Concentration Formula: Amt * DF * (1/(Vi/1000)*Vf)

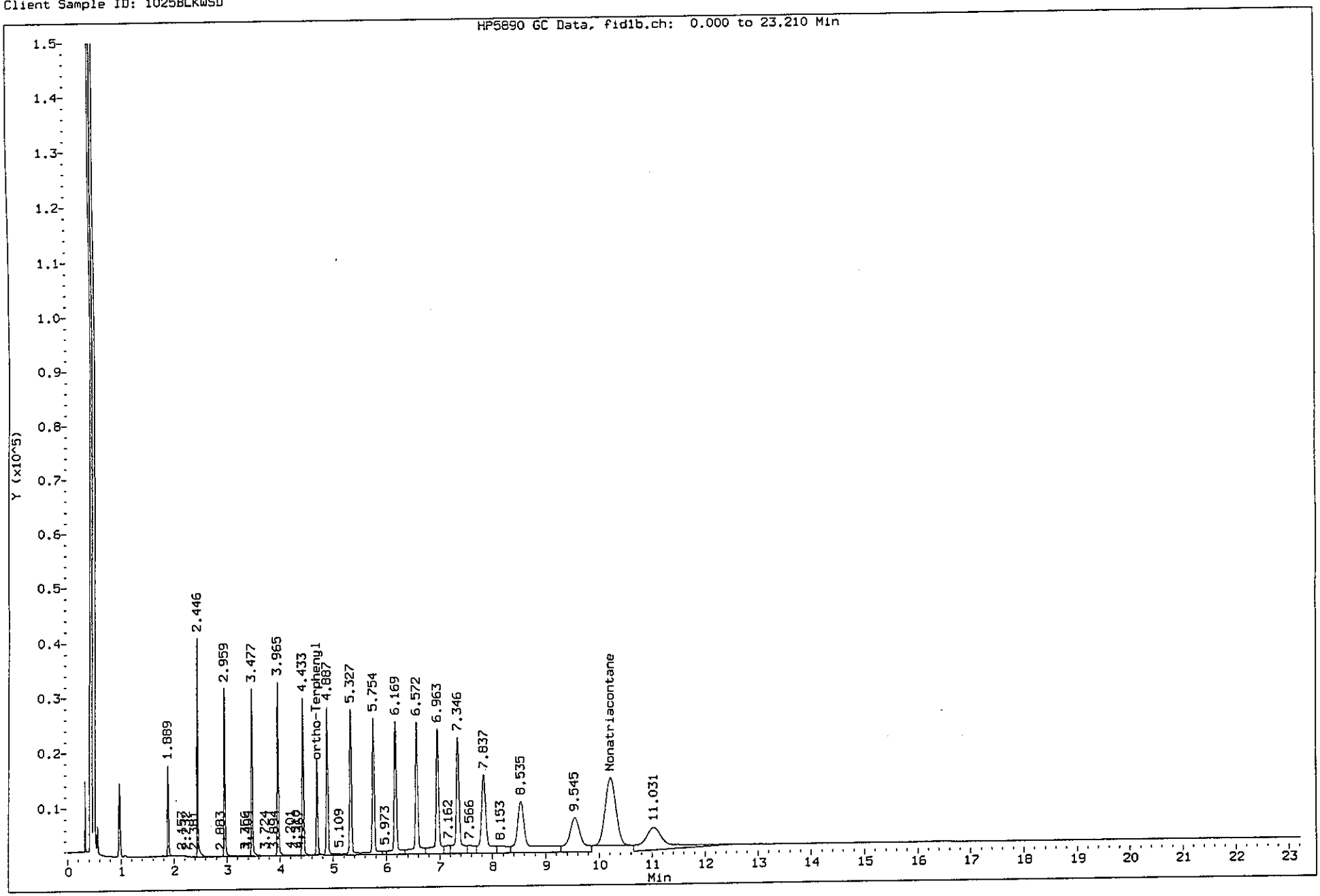
Name	Value	Description
DF	1.000	Dilution Factor
Vi	1000.000	Sample Initial Volume
Vf	2.000	Final Extract Volume

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/ml)	CONCENTRATIONS FINAL (mg/L)
S 1 TPH (C8-C40)	1.700-12.278			6644080	1.60573	3.2(M)
$ 2 ortho-Terphenyl	4.696	4.716	-0.020	162013	0.04542	0.091(M)
$ 3 Nonatriacontane	10.220	10.276	-0.056	875895	0.19361	0.39(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid02.i\F2102501.b\1025MSD.D
Injection Date: 25-OCT-2001 21:48
Instrument: sfid02.i
Client Sample ID: 1025BLKWSD



PEL Laboratories

Data file : \\TYOUNG\ee\chem\sfid02.i\F2102501.b\CCV2.D
Lab Smp Id: CCV2SV3119 Client Smp ID: CCV2SV3119
Inj Date : 26-OCT-2001 01:44
Operator : sga Inst ID: sfid02.i
Smp Info : CCV2SV3119
Misc Info : Florida PRO
Comment :
Method : \\Tyoung\ee\chem\sfid02.i\F2102501.b\FLPROW.m
Meth Date : 02-Nov-2001 15:30 sallen Quant Type: ESTD
Cal Date : 25-OCT-2001 14:58 Cal File: CAL7.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.04
Processing Host: SVHPLC3

Concentration Formula: Amt * DF * (1/(Vi/1000)*Vf)

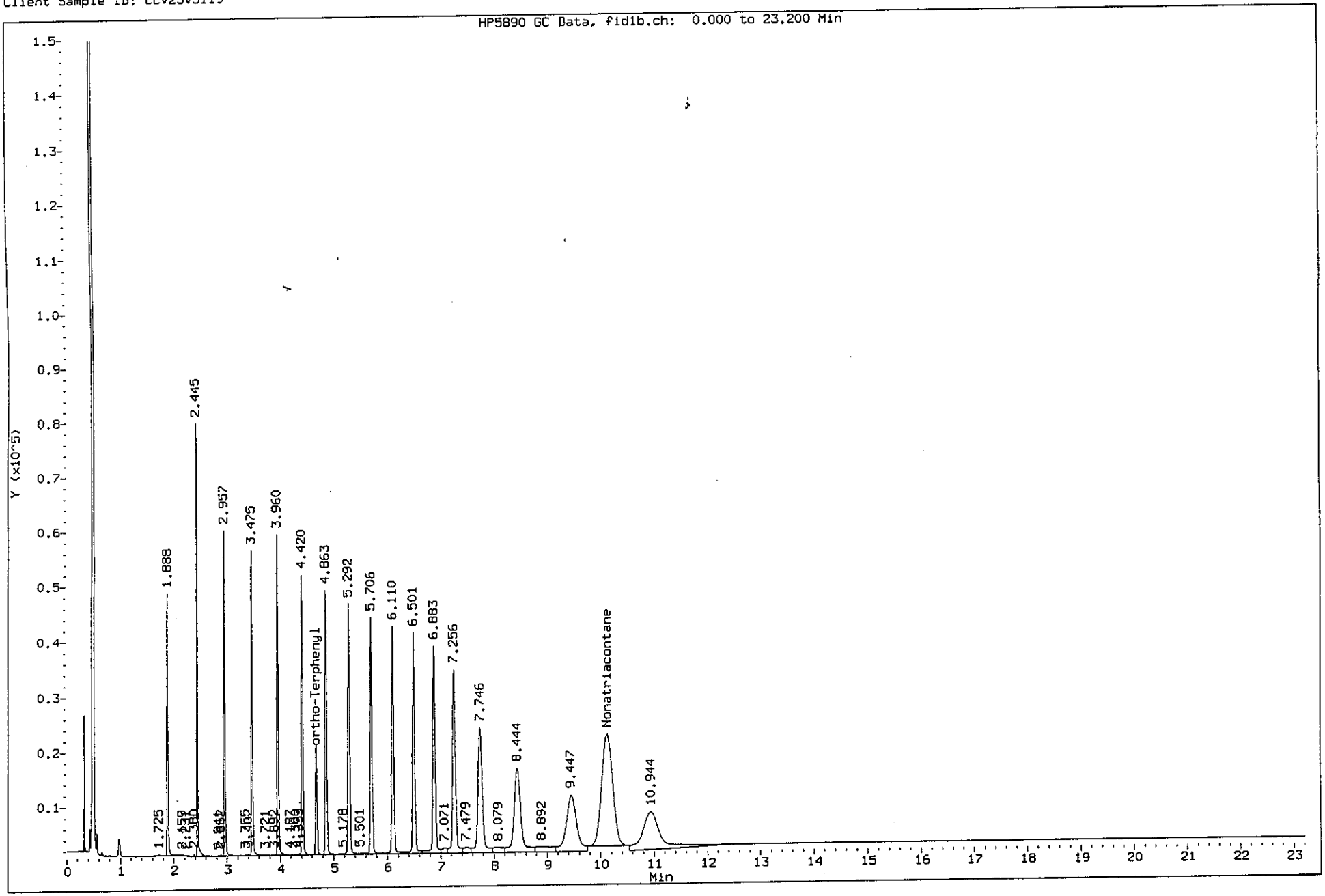
Name	Value	Description
DF	1.000	Dilution Factor
Vi	1000.000	Sample Initial Volume
Vf	2.000	Final Extract Volume

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/ml)	ON-COL (mg/ml)
S	1 TPH (C8-C40)	1.700-12.278			9747842	2.55000	2.6(M)
$	2 ortho-Terphenyl	4.680	4.716	-0.036	180149	0.05000	0.050(M)
$	3 Nonatriacontane	10.133	10.276	-0.143	1458927	0.30000	0.32(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid02.i\F2102501.b\CCV2.D
Injection Date: 26-OCT-2001 01:44
Instrument: sfid02.i
Client Sample ID: CCV2SV3119



PEL Laboratories

Data file : \\TYOUNG\ee\chem\sfid02.i\F210250S.b\CAL1.D
Lab Smp Id: CAL1SV3123 Client Smp ID: CAL1SV3123
Inj Date : 25-OCT-2001 18:26
Operator : sga Inst ID: sfid02.i
Smp Info : CAL1SV3123
Misc Info : Florida PRO
Comment :
Method : \\TYOUNG\ee\chem\sfid02.i\F210250S.b\FLPROS.m
Meth Date : 02-Nov-2001 15:43 sallen Quant Type: ESTD
Cal Date : 25-OCT-2001 18:26 Cal File: CAL1.D
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.04
Processing Host: SVHPLC3

Concentration Formula: Amt * DF * ((1/((Ws*((100-M)/100))/1000))*Vf)

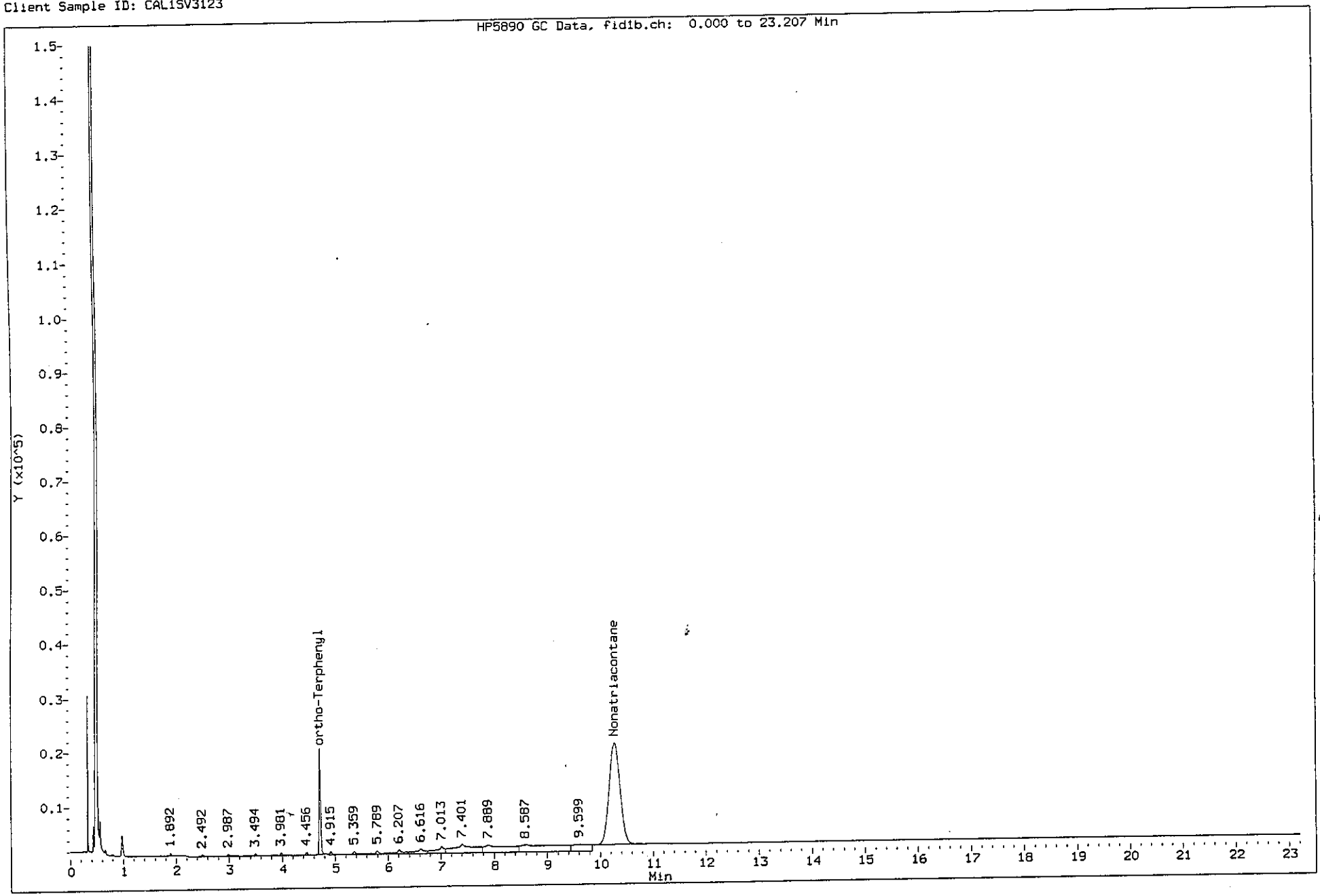
Name	Value	Description
DF	1.000	Dilution Factor
Ws	25.000	Weight of Sample
M	0.000	% Moisture
Vf	2.000	Final extract volume

						AMOUNTS	
						CAL-AMT	ON-COL
	Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/ml)	(mg/ml)
S	1 TPH (C8-C40)	1.700-12.278			1175476	0.03400	0.028(M)
$	2 ortho-Terphenyl	4.713	4.713	0.000	188967	0.05000	0.053(M)
$	3 Nonatriacontane	10.276	10.276	0.000	1331941	0.30000	0.29(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid02.i\F210250S.b\CAL1.D
Injection Date: 25-OCT-2001 18:26
Instrument: sfid02.i
Client Sample ID: CAL1SV3123



PEL Laboratories

Data file : \\TYOUNG\ee\chem\sfid02.i\F210250S.b\CAL2.D
Lab Smp Id: CAL2SV3122 Client Smp ID: CAL2SV3122
Inj Date : 25-OCT-2001 17:51
Operator : sga Inst ID: sfid02.i
Smp Info : CAL2SV3122
Misc Info : Florida PRO
Comment :
Method : \\TYOUNG\ee\chem\sfid02.i\F210250S.b\FLPROS.m
Meth Date : 02-Nov-2001 15:43 sallen Quant Type: ESTD
Cal Date : 25-OCT-2001 17:51 Cal File: CAL2.D
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.04
Processing Host: SVHPLC3

Concentration Formula: Amt * DF * ((1/((Ws*((100-M)/100))/1000))*Vf)

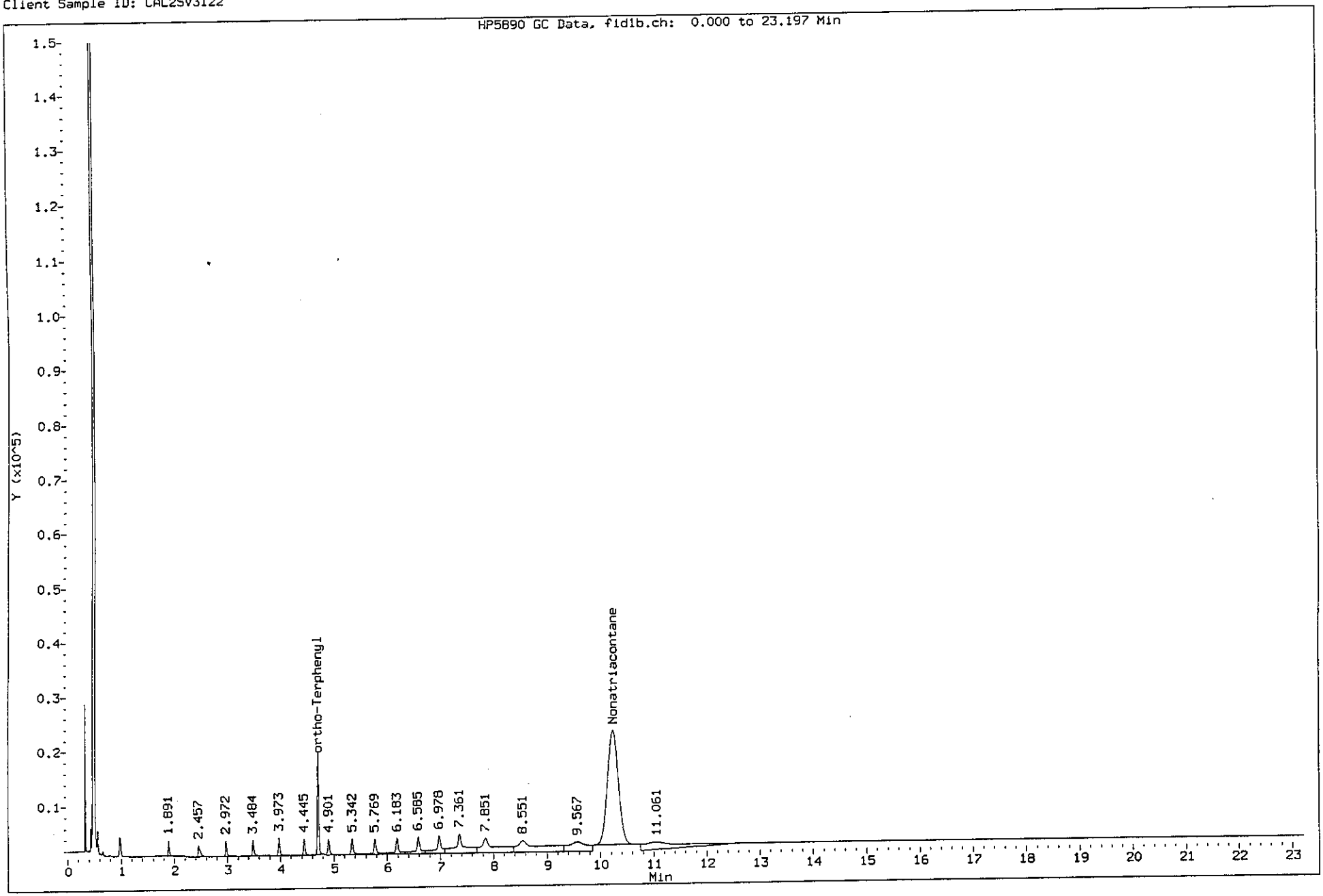
Name	Value	Description
DF	1.000	Dilution Factor
Ws	25.000	Weight of Sample
M	0.000	% Moisture
Vf	2.000	Final extract volume

						AMOUNTS CAL-AMT (mg/ml)	AMOUNTS ON-COL (mg/ml)
Compounds	RT	EXP RT	DLT RT	RESPONSE			
S 1 TPH (C8-C40)	1.700-12.278			1986024		0.17000	0.27(M)
$ 2 ortho-Terphenyl	4.706	4.713	-0.007	174862		0.05000	0.050(M)
$ 3 Nonatriacontane	10.243	10.276	-0.033	1490815		0.30000	0.33(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid02.i\F210250S.b\CAL2.D
Injection Date: 25-OCT-2001 17:51
Instrument: sfid02.i
Client Sample ID: CAL2SV3122



PEL Laboratories

Data file : \\TYOUNG\ee\chem\sfid02.i\F210250S.b\CAL3.D
Lab Smp Id: CAL3SV3121 Client Smp ID: CAL3SV3121
Inj Date : 25-OCT-2001 17:17
Operator : sga Inst ID: sfid02.i
Smp Info : CAL3SV3121
Misc Info : Florida PRO
Comment :
Method : \\TYOUNG\ee\chem\sfid02.i\F210250S.b\FLPROS.m
Meth Date : 02-Nov-2001 15:43 sallen Quant Type: ESTD
Cal Date : 25-OCT-2001 17:17 Cal File: CAL3.D
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.04
Processing Host: SVHPLC3

Concentration Formula: Amt * DF * ((1/((Ws*((100-M)/100))/1000))*Vf)

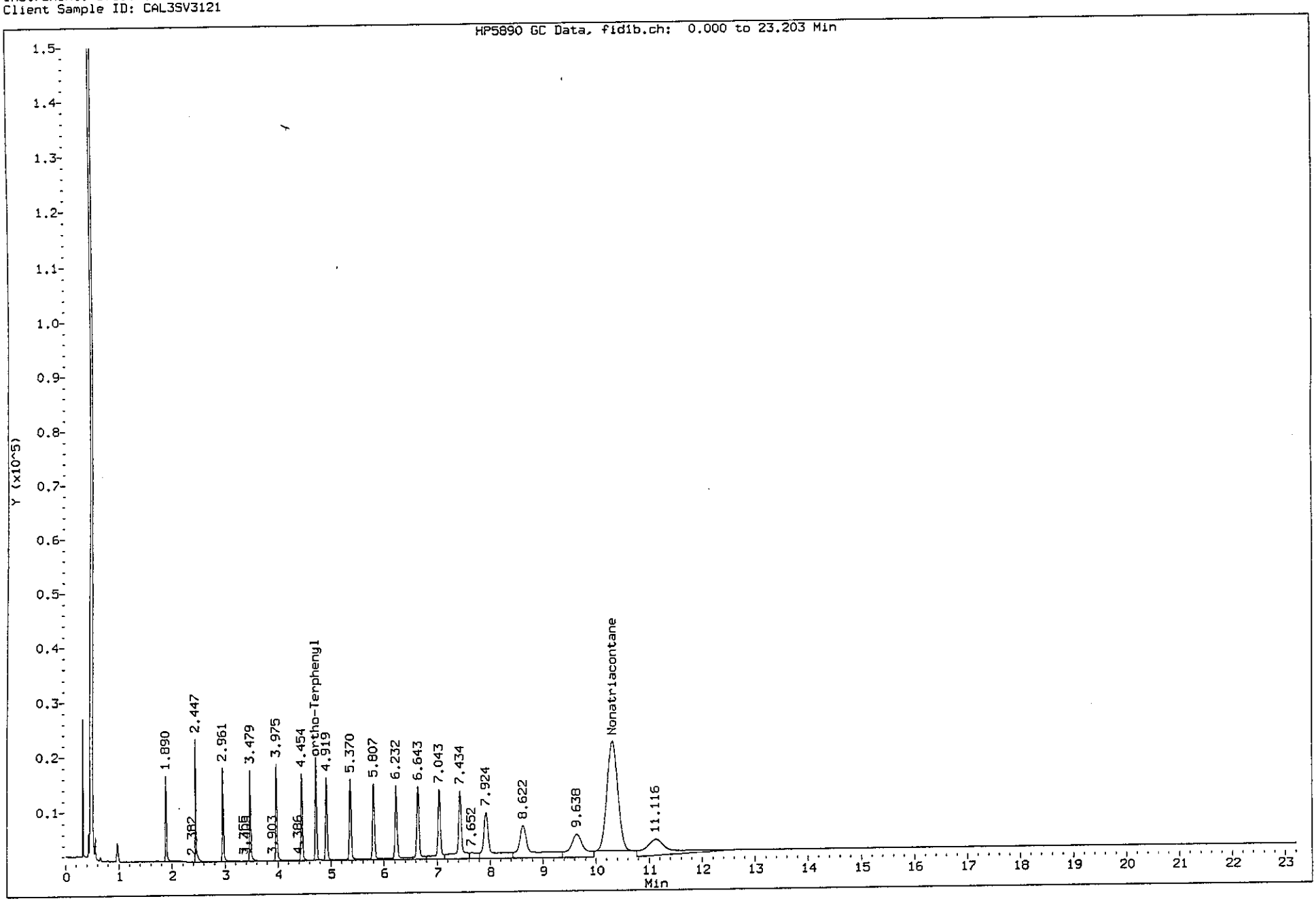
Name	Value	Description
DF	1.000	Dilution Factor
Ws	25.000	Weight of Sample
M	0.000	% Moisture
Vf	2.000	Final extract volume

						AMOUNTS	
						CAL-AMT	ON-COL
	Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/ml)	(mg/ml)
S	1 TPH (C8-C40)	1.700-12.278			4265805	0.85000	0.99(M)
$	2 ortho-Terphenyl	4.723	4.713	0.010	176033	0.05000	0.050(M)
$	3 Nonatriacontane	10.313	10.276	0.037	1414444	0.30000	0.32(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid02.i\F210250S.b\CAL3.D
Injection Date: 25-OCT-2001 17:17
Instrument: sfid02.i
Client Sample ID: CAL3SV3121



PEL Laboratories

Data file : \\TYOUNG\ee\chem\sfid02.i\F210250S.b\CAL4.D
Lab Smp Id: CAL4SV3120 Client Smp ID: CAL4SV3120
Inj Date : 25-OCT-2001 16:43
Operator : sga Inst ID: sfid02.i
Smp Info : CAL4SV3120
Misc Info : Florida PRO
Comment :
Method : \\TYOUNG\ee\chem\sfid02.i\F210250S.b\FLPROS.m
Meth Date : 02-Nov-2001 15:43 sallen Quant Type: ESTD
Cal Date : 25-OCT-2001 16:43 Cal File: CAL4.D
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.04
Processing Host: SVHPLC3

Concentration Formula: Amt * DF * ((1/((Ws*((100-M)/100))/1000))*Vf)

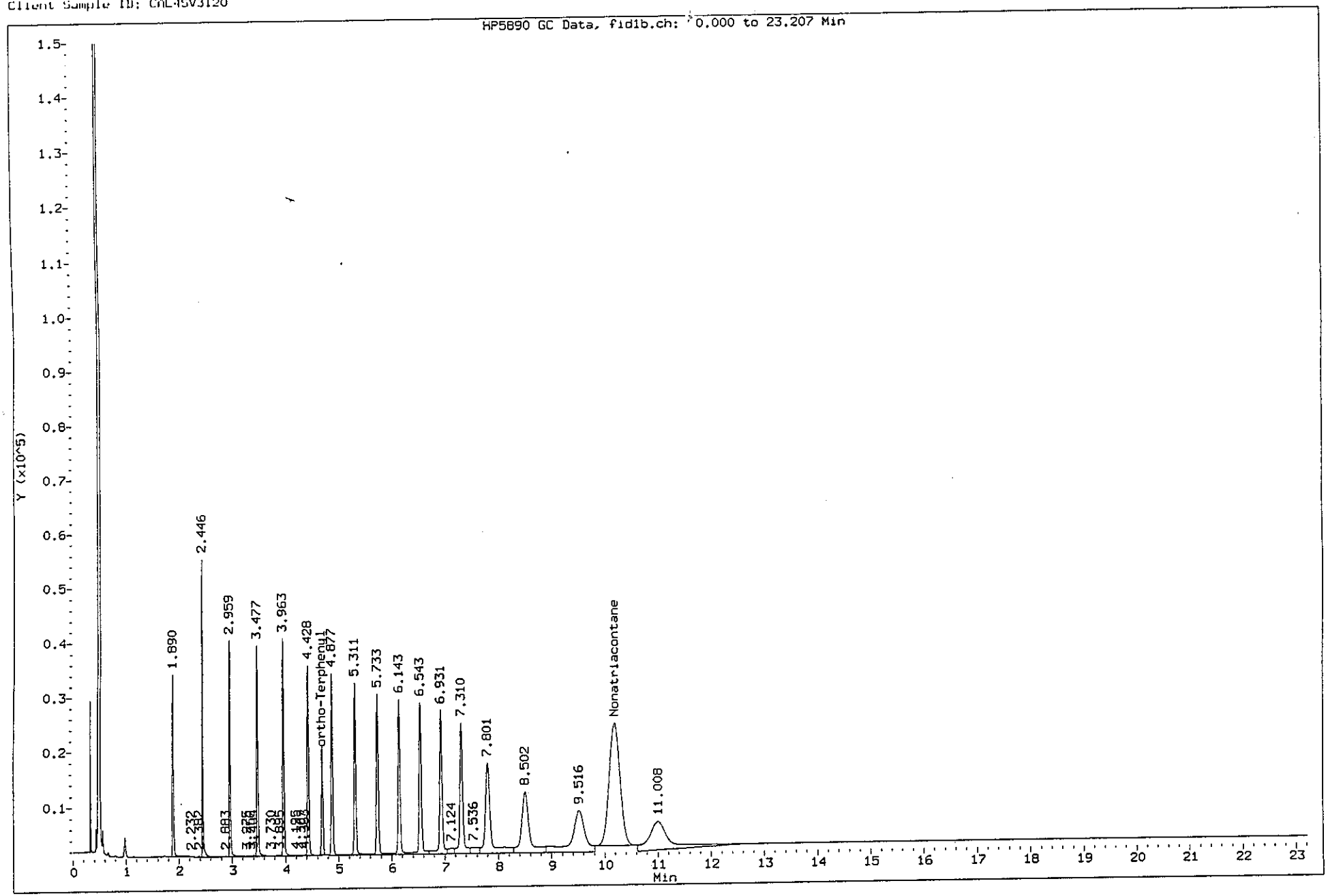
Name	Value	Description
DF	1.000	Dilution Factor
Ws	25.000	Weight of Sample
M	0.000	% Moisture
Vf	2.000	Final extract volume

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/ml)	AMOUNTS ON-COL (mg/ml)
S	1 TPH (C8-C40)	1.700-12.278			7240723	1.70000	1.9(M)
$	2 ortho-Terphenyl	4.690	4.713	-0.023	181030	0.05000	0.051(M)
$	3 Nonatriacontane	10.196	10.276	-0.080	1587755	0.30000	0.36(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid02.i\F210250S.b\CAL4.D
Injection Date: 25-OCT-2001 16:43
Instrument: sfid02.i
Client Sample ID: CAL45V3120



PEL Laboratories

Data file : \\TYOUNG\ee\chem\sfid02.i\F210250S.b\CAL5.D
Lab Smp Id: CAL5SV3119 Client Smp ID: CAL5SV3119
Inj Date : 25-OCT-2001 16:08
Operator : sga Inst ID: sfid02.i
Smp Info : CAL5SV3119
Misc Info : Florida PRO
Comment :
Method : \\TYOUNG\ee\chem\sfid02.i\F210250S.b\FLPROS.m
Meth Date : 02-Nov-2001 15:43 sallen Quant Type: ESTD
Cal Date : 25-OCT-2001 16:08 Cal File: CAL5.D
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.04
Processing Host: SVHPLC3

Concentration Formula: Amt * DF * ((1/((Ws*((100-M)/100))/1000))*Vf)

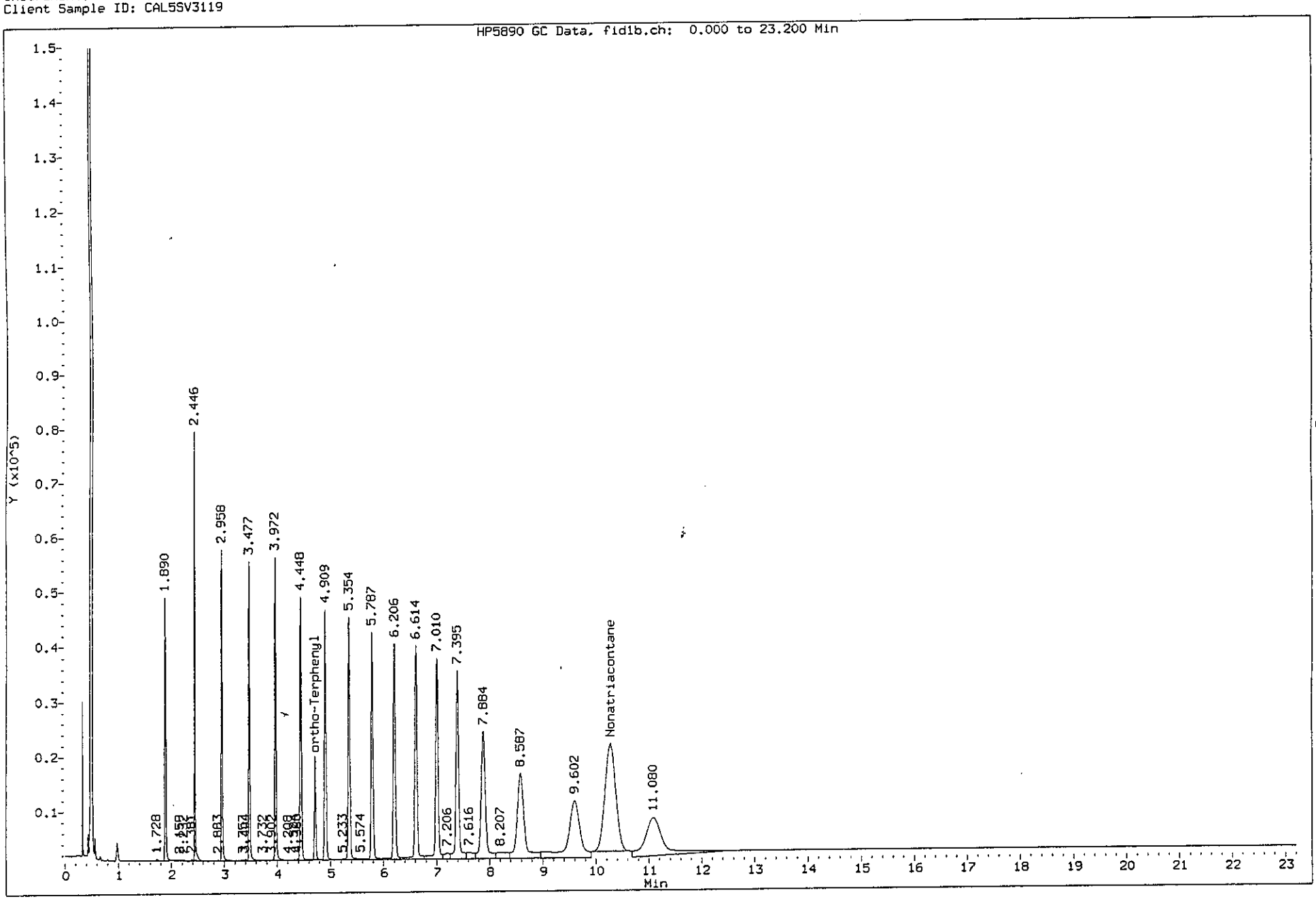
Name	Value	Description
DF	1.000	Dilution Factor
Ws	25.000	Weight of Sample
M	0.000	% Moisture
Vf	2.000	Final extract volume

						AMOUNTS CAL-AMT (mg/ml)	AMOUNTS ON-COL (mg/ml)
Compounds		RT	EXP RT	DLT RT	RESPONSE		
S	1 TPH (C8-C40)	1.700-12.278			9833902	2.55000	2.7(M)
$	2 ortho-Terphenyl	4.716	4.713	0.003	175424	0.05000	0.050(M)
$	3 Nonatriacontane	10.276	10.276	0.000	1398976	0.30000	0.34(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid02.i\F210250S.b\CAL5.D
Injection Date: 25-OCT-2001 16:08
Instrument: sfid02.i
Client Sample ID: CAL5SV3119



PEL Laboratories

Data file : \\TYOUNG\ee\chem\sfid02.i\F210250S.b\CAL6.D
Lab Smp Id: CAL6SV3118 Client Smp ID: CAL6SV3118
Inj Date : 25-OCT-2001 15:33
Operator : sga Inst ID: sfid02.i
Smp Info : CAL6SV3118
Misc Info : Florida PRO
Comment :
Method : \\TYOUNG\ee\chem\sfid02.i\F210250S.b\FLPROS.m
Meth Date : 02-Nov-2001 15:43 sallen Quant Type: ESTD
Cal Date : 25-OCT-2001 15:33 Cal File: CAL6.D
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.04
Processing Host: SVHPLC3

Concentration Formula: Amt * DF * ((1/((Ws*((100-M)/100))/1000))*Vf)

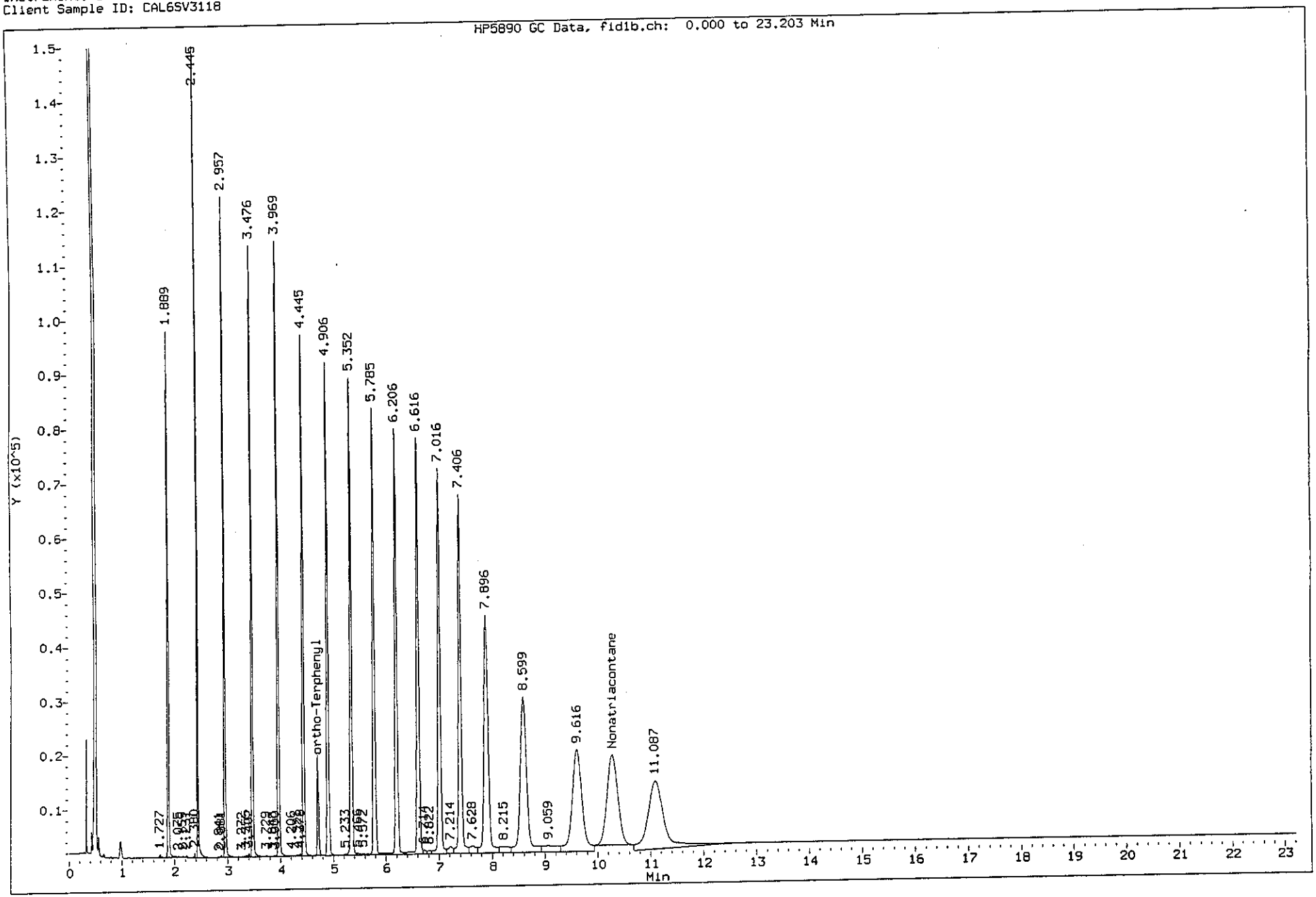
Name	Value	Description
DF	1.000	Dilution Factor
Ws	25.000	Weight of Sample
M	0.000	% Moisture
Vf	2.000	Final extract volume

						AMOUNTS CAL-AMT (mg/ml)	AMOUNTS ON-COL (mg/ml)
Compounds		RT	EXP RT	DLT RT	RESPONSE		
S	1 TPH (C8-C40)	1.700-12.278			18022787	5.10000	5.2(M)
$	2 ortho-Terphenyl	4.713	4.713	0.000	174116	0.05000	0.049(M)
$	3 Nonatriacontane	10.286	10.276	0.010	1179217	0.30000	0.31(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid02.i\F210250S.b\CAL6.D
Injection Date: 25-OCT-2001 15:33
Instrument: sfid02.i
Client Sample ID: CAL6SV3118



PEL Laboratories

Data file : \\TYOUNG\ee\chem\sfid02.i\F210250S.b\CAL7.D
Lab Smp Id: CAL7SV3117 Client Smp ID: CAL7SV3117
Inj Date : 25-OCT-2001 14:58
Operator : sga Inst ID: sfid02.i
Smp Info : CAL7SV3117
Misc Info : Florida PRO
Comment :
Method : \\TYOUNG\ee\chem\sfid02.i\F210250S.b\FLPROS.m
Meth Date : 02-Nov-2001 15:43 sallen Quant Type: ESTD
Cal Date : 25-OCT-2001 14:58 Cal File: CAL7.D
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.04
Processing Host: SVHPLC3

Concentration Formula: Amt * DF * ((1/((Ws*((100-M)/100))/1000))*Vf)

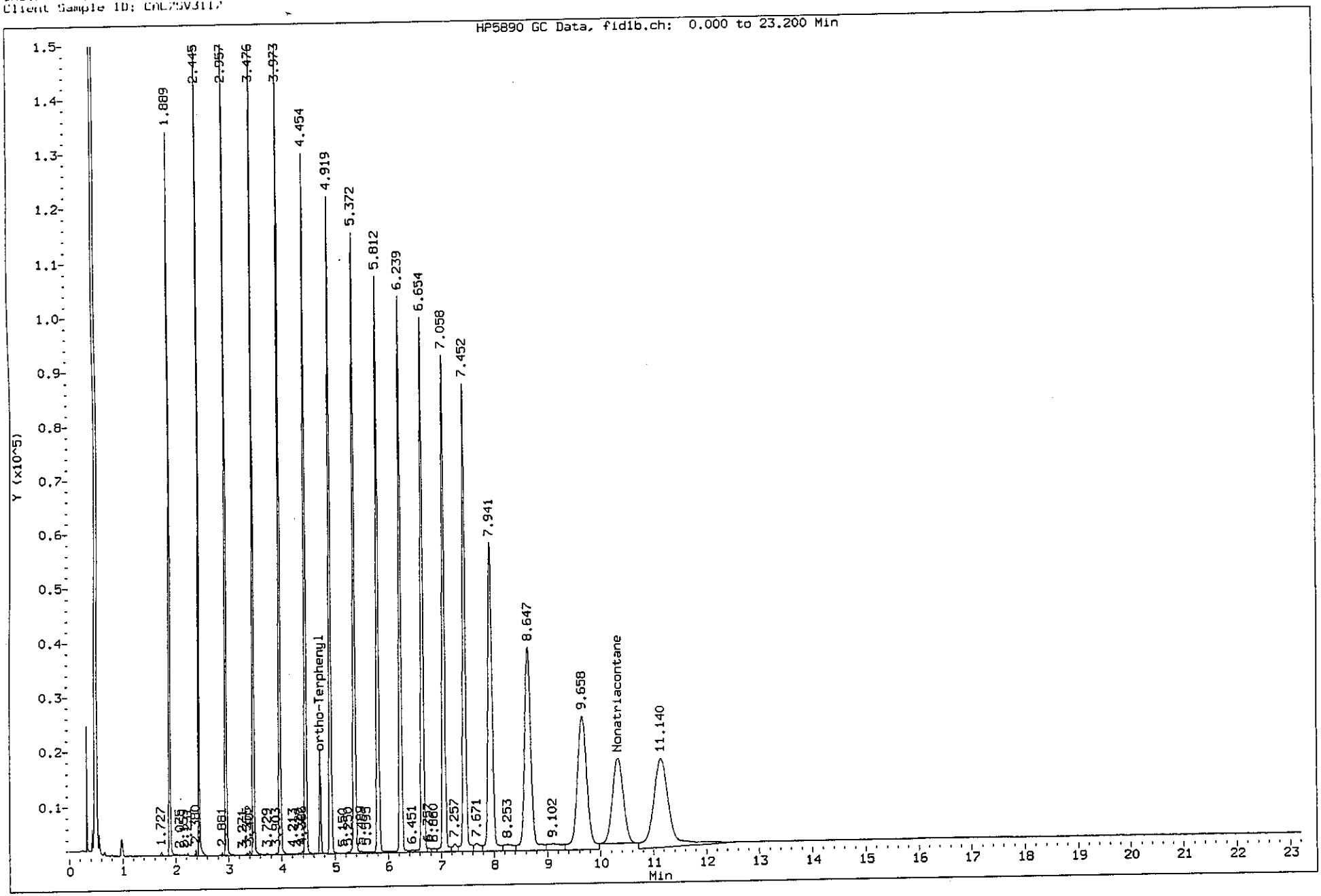
Name	Value	Description
DF	1.000	Dilution Factor
Ws	25.000	Weight of Sample
M	0.000	% Moisture
Vf	2.000	Final extract volume

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/ml)	AMOUNTS ON-COL (mg/ml)
S	1 TPH (C8-C40)	1.700-12.278			23354712	6.80000	6.8(M)
$	2 ortho-Terphenyl	4.723	4.713	0.010	177930	0.05000	0.050(M)
$	3 Nonatriacontane	10.330	10.276	0.054	1097275	0.30000	0.30(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid02.i\F210250S.b\CAL7.D
Injection Date: 25-OCT-2001 14:58
Instrument: sfid02.i
Client Sample ID: CAL7%V311



F2102601.S 10-26-01

FLPRO Soil

Vial	Sample Name
98	DCM1
99	CCV1SV3119
1	51443
2	51444
3	51445
4	51446
5	211009401
6	211009402
7	211009403
8	211009404
9	21109405
10	21109406
99	CCV2SV3119
11	211009407
12	211009408
13	2110094 09
14	2110094 10
15	211009411
16	211009412
17	211009413
18	211009414
19	211009415
20	211009416
97	CCV3SV3119
21	211009417
22	211009418
23	211009419
97	CCV4SV3119
31	211009405 D5
32	211009407 D50
33	211009408 D50
34	211009409 D50
35	211009414 D10

PEL Laboratories

Data file : \\TYOUNG\ee\chem\sfid02.i\F2102601.b\CCV1.D
Lab Smp Id: CCV1SV3119 Client Smp ID: CCV1SV3119
Inj Date : 26-OCT-2001 13:17
Operator : sga Inst ID: sfid02.i
Smp Info : CCV1SV3119
Misc Info : Florida PRO
Comment :
Method : \\TYOUNG\ee\chem\sfid02.i\F2102601.b\FLPROS.m
Meth Date : 02-Nov-2001 15:43 sallen Quant Type: ESTD
Cal Date : 25-OCT-2001 18:26 Cal File: CAL1.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.04
Processing Host: TYOUNG

Concentration Formula: Amt * DF * ((1/((Ws*((100-M)/100))/1000))*Vf)

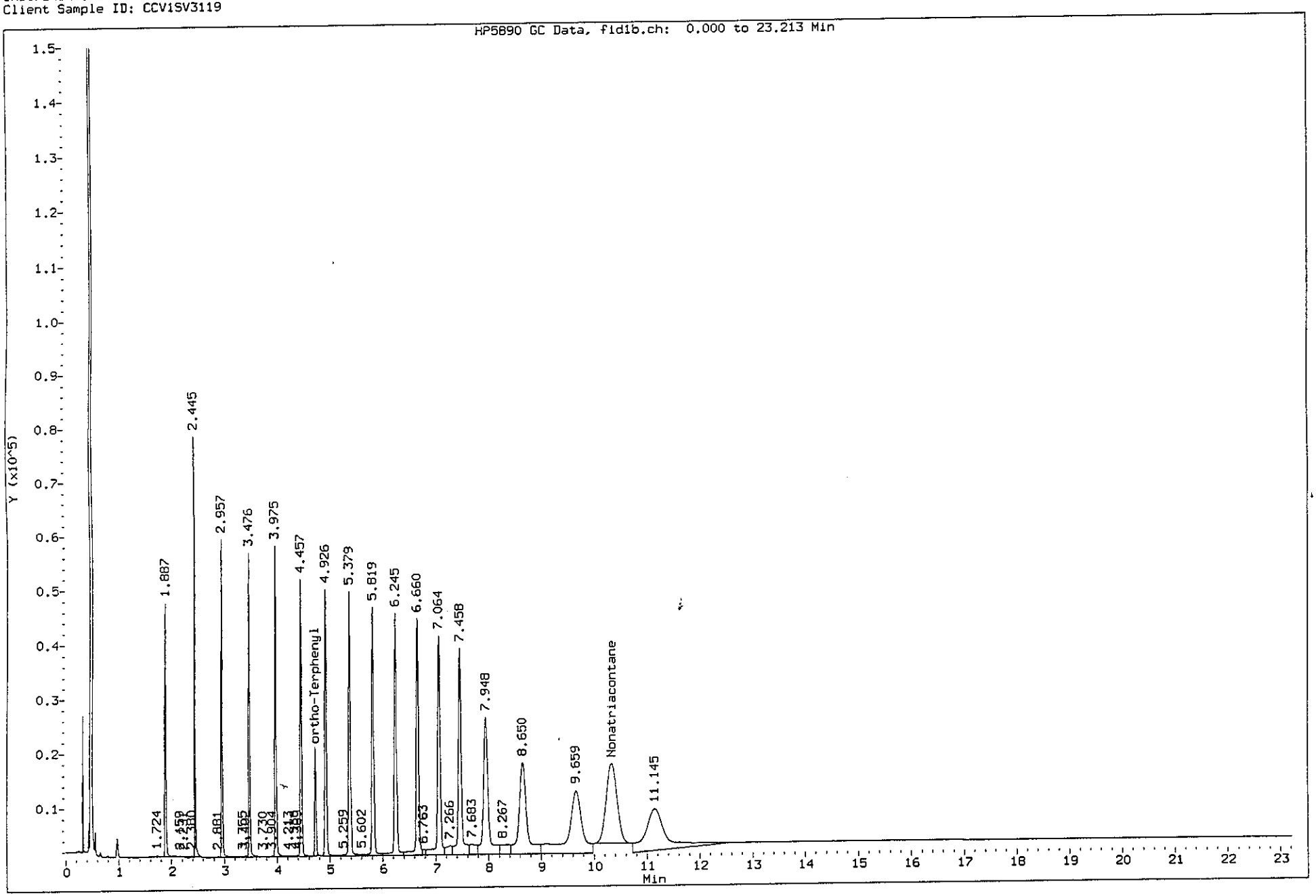
Name	Value	Description
DF	1.000	Dilution Factor
Ws	25.000	Weight of Sample
M	0.000	% Moisture
Vf	2.000	Final extract volume

						AMOUNTS	
	Compounds	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (mg/ml)	ON-COL (mg/ml)
S	1 TPH (C8-C40)	1.700-12.278			11302439	2.55000	3.0(M)
$	2 ortho-Terphenyl	4.730	4.713	0.017	188145	0.05000	0.053(M)
$	3 Nonatriacontane	10.343	10.276	0.067	1036370	0.30000	0.23(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid02.i\F2102601.b\CCV1.D
Injection Date: 26-OCT-2001 13:17
Instrument: sfid02.i
Client Sample ID: CCV1SV3119



PEL Laboratories

Data file : \\TYOUNG\ee\chem\sfid02.i\F2102601.b\1025BLKS.D
Lab Smp Id: 51443 Client Smp ID: 1025BLKS
Inj Date : 26-OCT-2001 15:13
Operator : sga Inst ID: sfid02.i
Smp Info : 51443
Misc Info :
Comment :
Method : \\TYOUNG\ee\chem\sfid02.i\F2102601.b\FLPROS.m
Meth Date : 02-Nov-2001 15:43 sallen Quant Type: ESTD
Cal Date : 25-OCT-2001 18:26 Cal File: CAL1.D
Als bottle: 100 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: rl.sub
Target Version: 4.04
Processing Host: TYOUNG

Concentration Formula: Amt * DF * ((1/((Ws*((100-M)/100))/1000))*Vf)

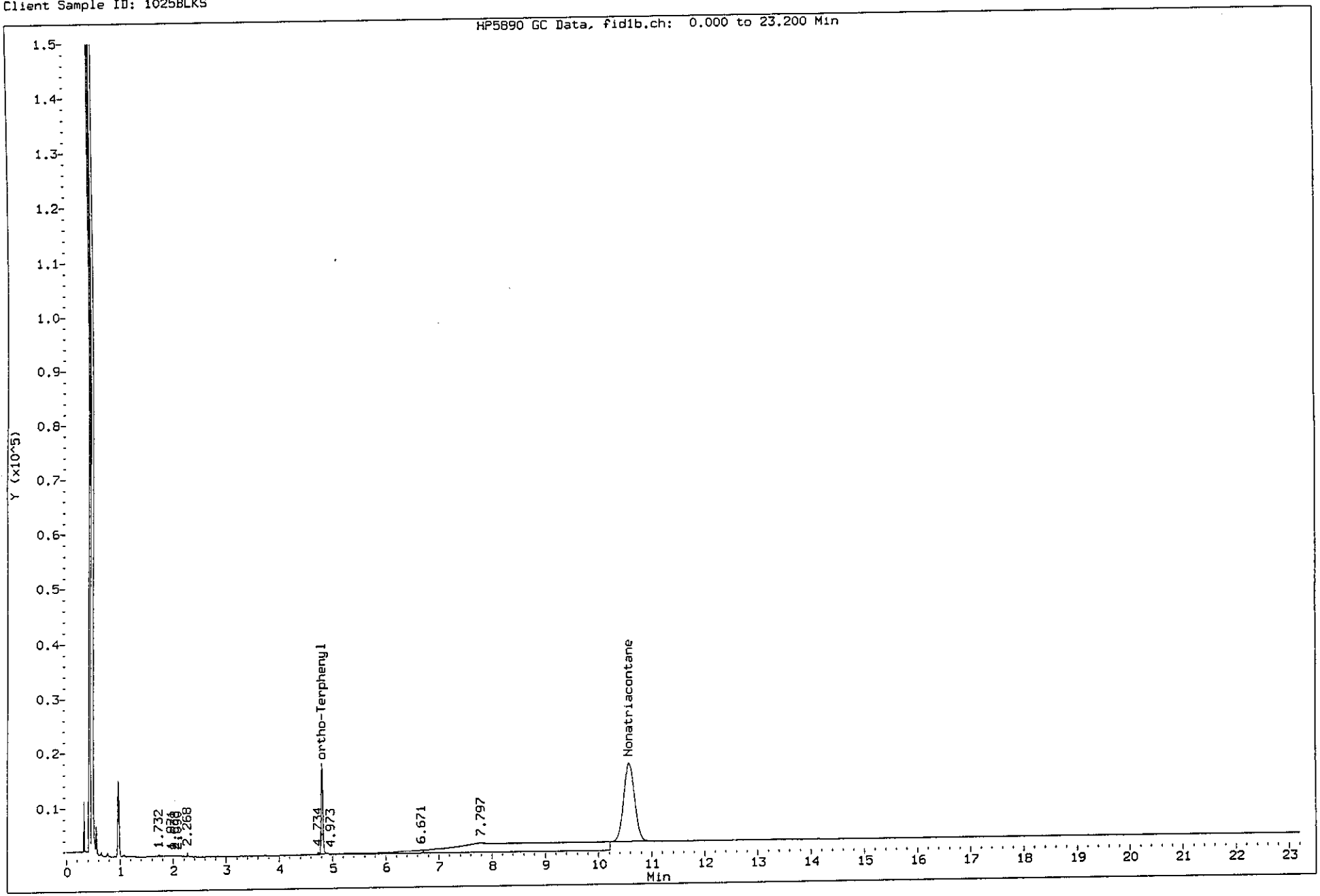
Name	Value	Description
DF	1.000	Dilution Factor
Ws	25.080	Weight of Sample
M	0.000	% Moisture
Vf	2.000	Final extract volume

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/ml)	CONCENTRATIONS FINAL (mg/Kg)
$ 2 ortho-Terphenyl	4.806	4.713	0.093	172047	0.04824	3.8(M)
$ 3 Nonatriacontane	10.576	10.276	0.300	1024983	0.22657	18.1(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid02.i\F2102601.b\1025BLKS.D
Injection Date: 26-OCT-2001 15:13
Instrument: sfid02.i
Client Sample ID: 1025BLKS



PEL Laboratories

Data file : \\TYOUNG\ee\chem\sfid02.i\F2102601.b\1025LCS.D
Lab Smp Id: 51444 Client Smp ID: 1025LCSS
Inj Date : 26-OCT-2001 15:47
Operator : sga Inst ID: sfid02.i
Smp Info : 51444
Misc Info :
Comment :
Method : \\TYOUNG\ee\chem\sfid02.i\F2102601.b\FLPROS.m
Meth Date : 02-Nov-2001 15:43 sallen Quant Type: ESTD
Cal Date : 25-OCT-2001 18:26 Cal File: CAL1.D
Als bottle: 100 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: rl.sub
Target Version: 4.04
Processing Host: TYOUNG

Concentration Formula: Amt * DF * ((1/((Ws*((100-M)/100))/1000))*Vf)

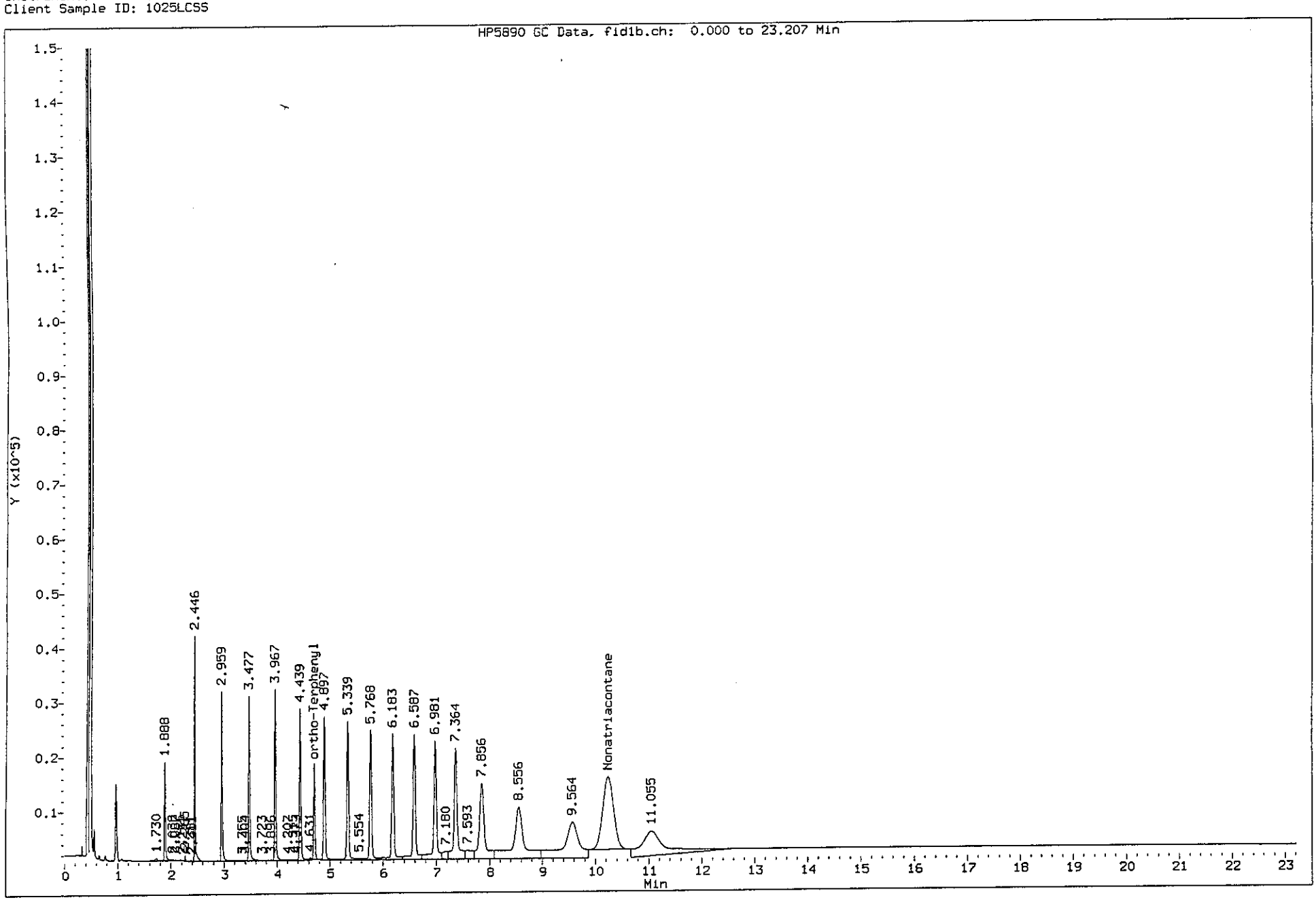
Name	Value	Description
DF	1.000	Dilution Factor
Ws	25.010	Weight of Sample
M	0.000	% Moisture
Vf	2.000	Final extract volume

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/ml)	CONCENTRATIONS FINAL (mg/Kg)
S	1 TPH (C8-C40)	1.700-12.278			6739782	1.63519	131(M)
$	2 ortho-Terphenyl	4.706	4.713	-0.007	163836	0.04593	3.7(M)
$	3 Nonatriacontane	10.243	10.276	-0.033	949788	0.20994	16.8(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid02.i\F2102601.b\1025LCS.D
Injection Date: 26-OCT-2001 15:47
Instrument: sfid02.i
Client Sample ID: 1025LCSS



PEL Laboratories

Data file : \\TYOUNG\ee\chem\sfid02.i\F2102601.b\1025MS.D
Lab Smp Id: 51445 Client Smp ID: 1025BLKSMS
Inj Date : 26-OCT-2001 16:21
Operator : sga Inst ID: sfid02.i
Smp Info : 51445
Misc Info :
Comment :
Method : \\Tyoung\ee\chem\sfid02.i\F2102601.b\FLPROS.m
Meth Date : 02-Nov-2001 15:43 sallen Quant Type: ESTD
Cal Date : 25-OCT-2001 18:26 Cal File: CAL1.D
Als bottle: 100 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: rl.sub
Target Version: 4.04
Processing Host: TYOUNG

Concentration Formula: Amt * DF * ((1/((Ws*((100-M)/100))/1000))*Vf)

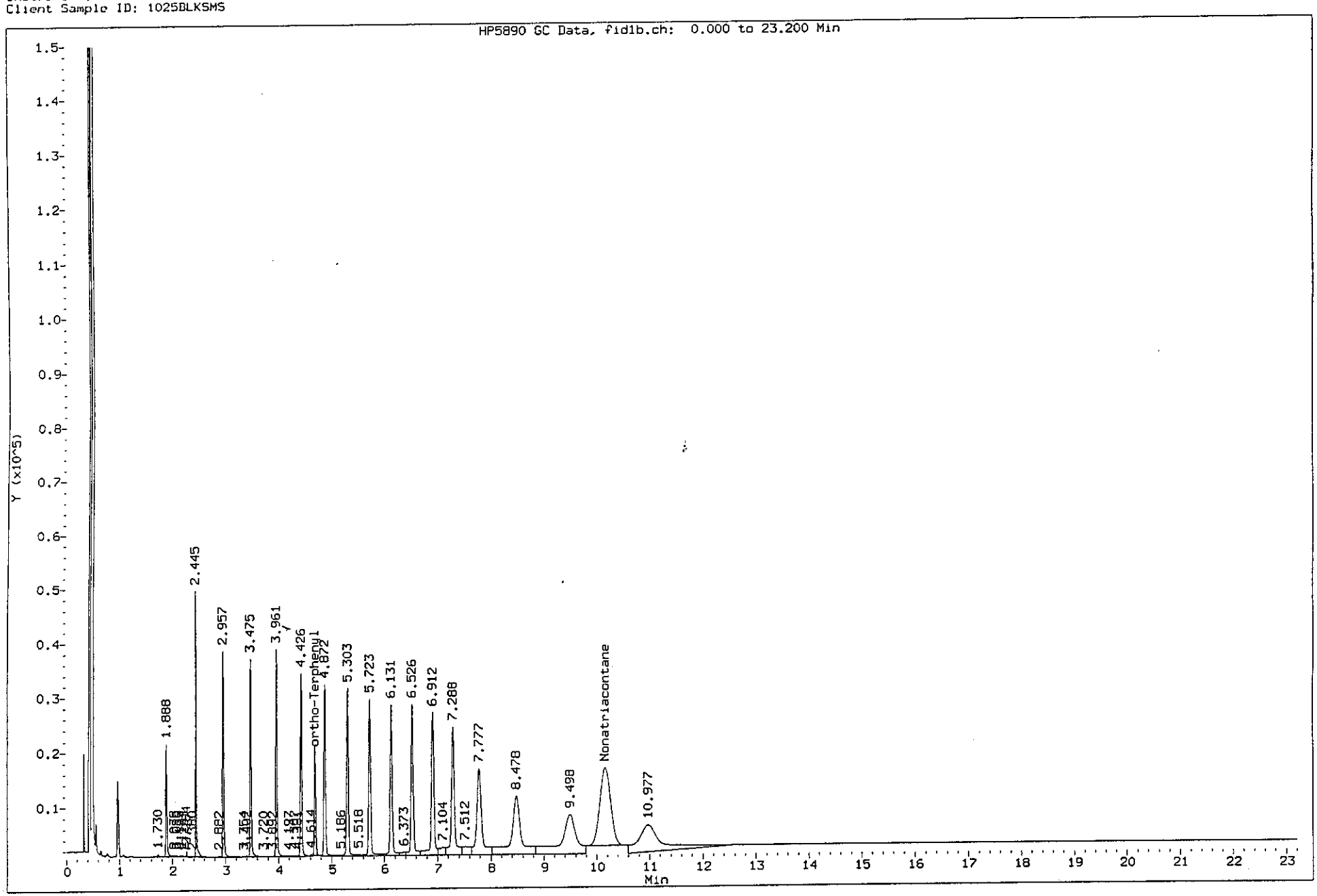
Name	Value	Description
DF	1.000	Dilution Factor
Ws	25.080	Weight of Sample
M	0.000	% Moisture
Vf	2.000	Final extract volume

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/ml)	CONCENTRATIONS FINAL (mg/Kg)
S	1 TPH (C8-C40)	1.700-12.278			7440548	1.85094	148(M)
$	2 ortho-Terphenyl	4.686	4.713	-0.027	183783	0.05153	4.1(M)
$	3 Nonatriacontane	10.160	10.276	-0.116	1015252	0.22441	17.9(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid02.i\F2102601.b\1025MS.D
Injection Date: 26-OCT-2001 16:21
Instrument: sfid02.i
Client Sample ID: 1025BLKSMS



PEL Laboratories

Data file : \\TYOUNG\ee\chem\sfid02.i\F2102601.b\1025MSD.D
Lab Smp Id: 51446 Client Smp ID: 1025BLKSSD
Inj Date : 26-OCT-2001 16:55
Operator : sga Inst ID: sfid02.i
Smp Info : 51446
Misc Info :
Comment :
Method : \\Tyoung\ee\chem\sfid02.i\F2102601.b\FLPROS.m
Meth Date : 02-Nov-2001 15:43 sallen Quant Type: ESTD
Cal Date : 25-OCT-2001 18:26 Cal File: CAL1.D
Als bottle: 100 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: rl.sub
Target Version: 4.04
Processing Host: TYOUNG

Concentration Formula: Amt * DF * ((1/((Ws*((100-M)/100))/1000))*Vf)

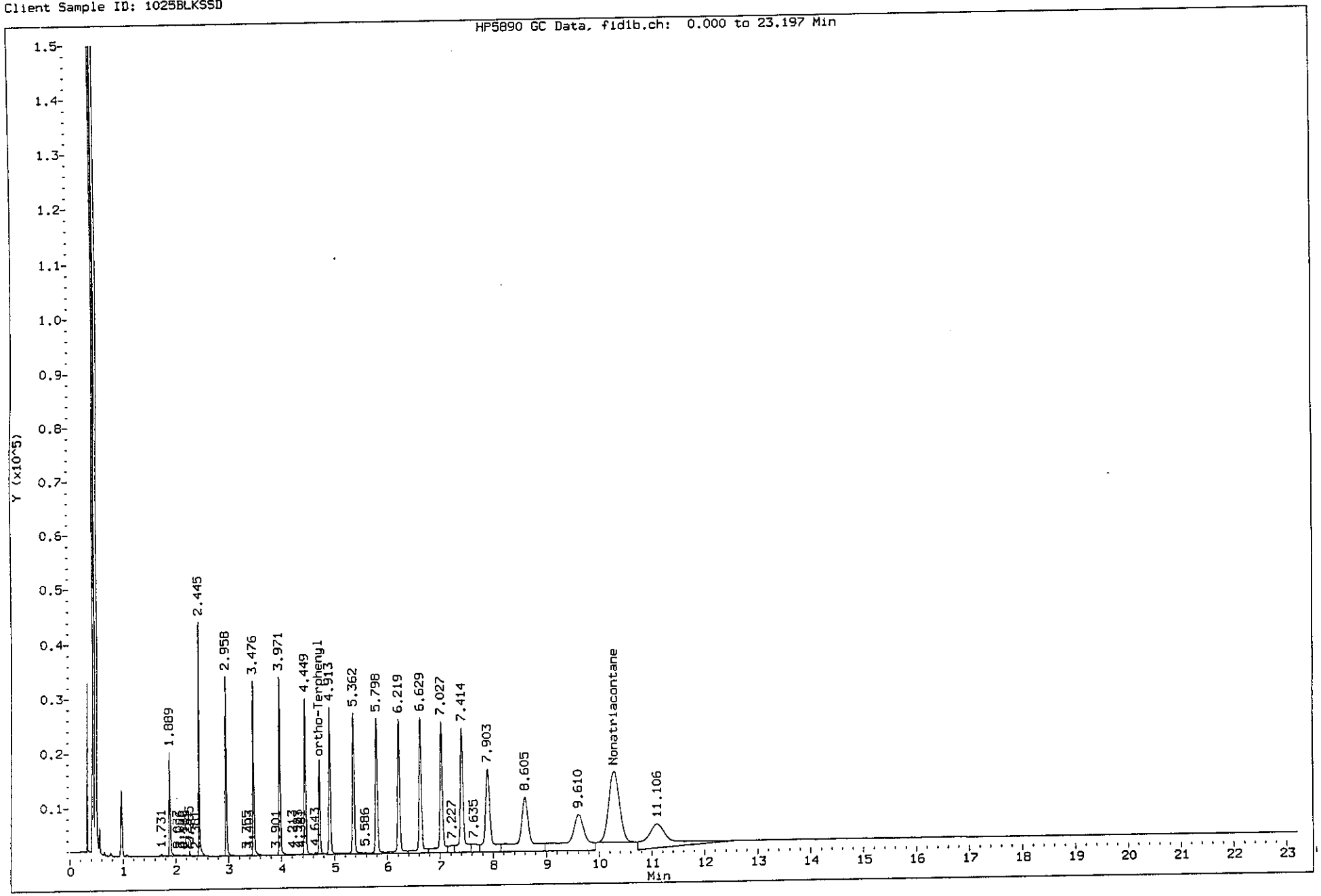
Name	Value	Description
DF	1.000	Dilution Factor
Ws	25.010	Weight of Sample
M	0.000	% Moisture
Vf	2.000	Final extract volume

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/ml)	CONCENTRATIONS FINAL (mg/Kg)
S	1 TPH (C8-C40)	1.700-12.278			6872221	1.67597	134(M)
$	2 ortho-Terphenyl	4.720	4.713	0.007	162968	0.04569	3.6(M)
$	3 Nonatriacontane	10.286	10.276	0.010	926093	0.20471	16.4(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid02.i\F2102601.b\1025MSD.D
Injection Date: 26-OCT-2001 16:55
Instrument: sfid02.i
Client Sample ID: 1025BLKSSD



PEL Laboratories

Data file : \\TYOUNG\ee\chem\sfid02.i\F2102601.b\94-01.D
Lab Smp Id: 211009401 Client Smp ID: 062B7S101801
Inj Date : 26-OCT-2001 17:28
Operator : sga Inst ID: sfid02.i
Smp Info : 211009401
Misc Info :
Comment :
Method : \\Tyoung\ee\chem\sfid02.i\F2102601.b\FLPROS.m
Meth Date : 02-Nov-2001 15:43 sallen Quant Type: ESTD
Cal Date : 25-OCT-2001 18:26 Cal File: CAL1.D
Als bottle: 100
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: rl.sub
Target Version: 4.04
Processing Host: TYOUNG

Concentration Formula: Amt * DF * ((1/((Ws*((100-M)/100))/1000))*Vf)

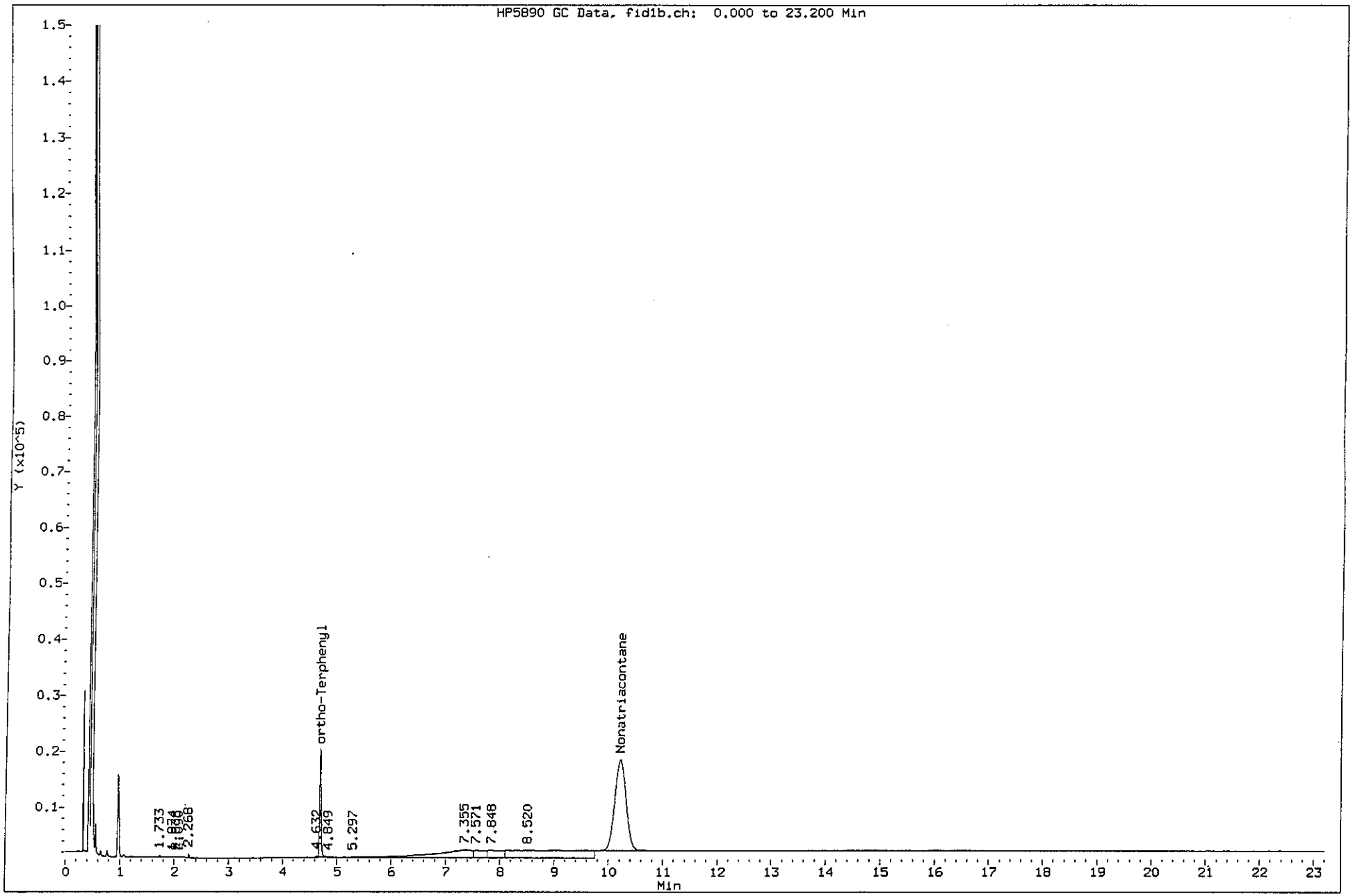
Name	Value	Description
DF	1.000	Dilution Factor
Ws	25.050	Weight of Sample
M	15.482	% Moisture
Vf	2.000	Final extract volume

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/ml)	CONCENTRATIONS FINAL (mg/Kg)
$ 2 ortho-Terphenyl	4.700	4.713	-0.013	187991	0.05271	5.0(M)
$ 3 Nonatriacontane	10.220	10.276	-0.056	1171340	0.25892	24.4(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid02.i\F2102601.b\94-01.D
Injection Date: 26-OCT-2001 17:28
Instrument: sfid02.i
Client Sample ID: 062B7S101801



PEL Laboratories

Data file : \\TYOUNG\ee\chem\sfid02.i\F2102601.b\94-02.D
Lab Smp Id: 211009402 Client Smp ID: 062B31S101801
Inj Date : 26-OCT-2001 18:02
Operator : sga Inst ID: sfid02.i
Smp Info : 211009402
Misc Info :
Comment :
Method : \\Tyoung\ee\chem\sfid02.i\F2102601.b\FLPROS.m
Meth Date : 02-Nov-2001 15:43 sallen Quant Type: ESTD
Cal Date : 25-OCT-2001 18:26 Cal File: CAL1.D
Als bottle: 100
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: rl.sub
Target Version: 4.04
Processing Host: TYOUNG

Concentration Formula: Amt * DF * ((1/((Ws*((100-M)/100))/1000))*Vf)

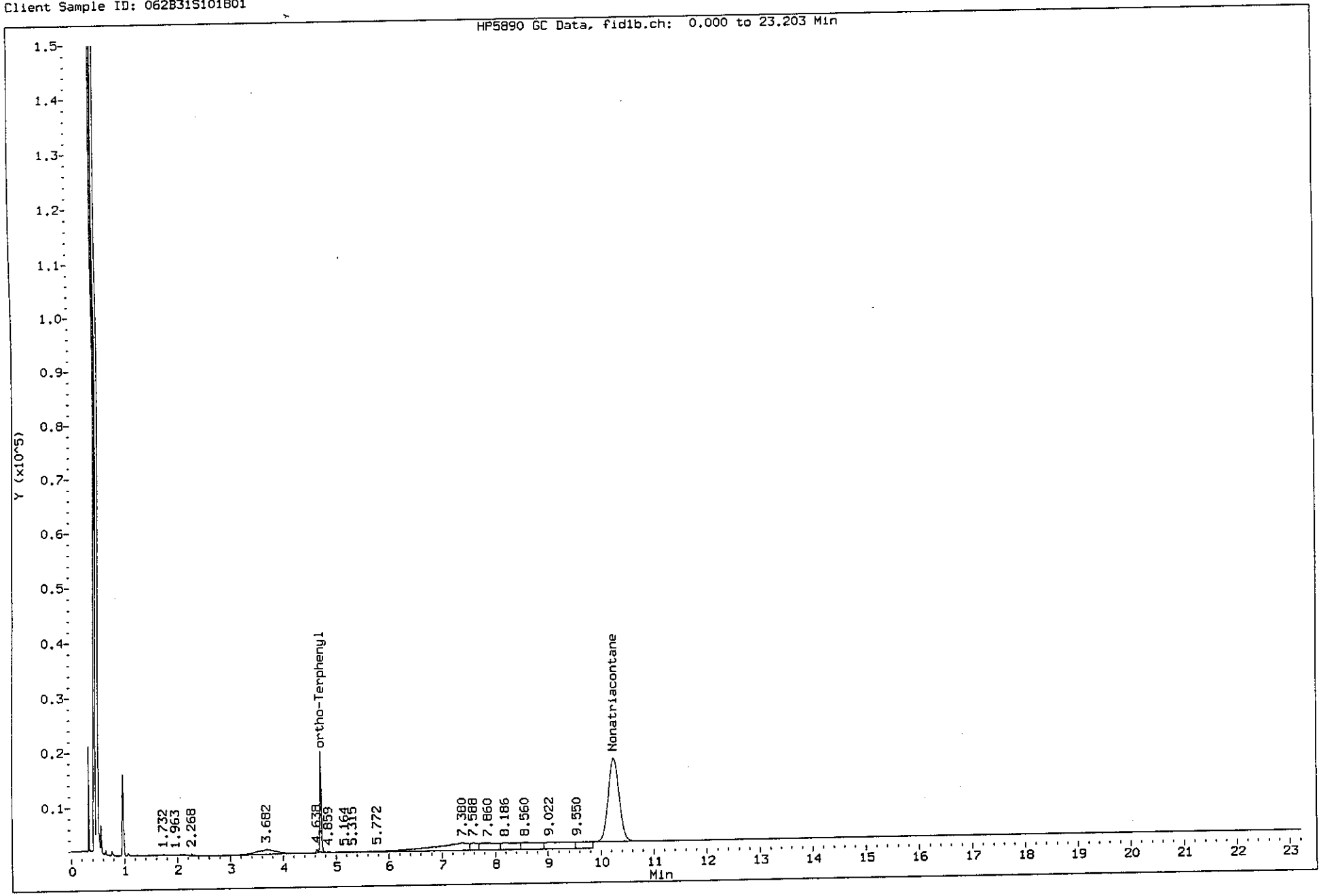
Name	Value	Description
DF	1.000	Dilution Factor
Ws	25.030	Weight of Sample
M	17.033	% Moisture
Vf	2.000	Final extract volume

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/ml)	CONCENTRATIONS FINAL (mg/Kg)
$ 2 ortho-Terphenyl	4.710	4.713	-0.003	176333	0.04944	4.8(M)
$ 3 Nonatriacontane	10.240	10.276	-0.036	1091183	0.24120	23.2(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid02.i\F2102601.b\94-02.D
Injection Date: 26-OCT-2001 18:02
Instrument: sfid02.i
Client Sample ID: 062B31S101B01



PEL Laboratories

Data file : \\TYOUNG\ee\chem\sfid02.i\F2102601.b\94-03.D
Lab Smp Id: 211009403 Client Smp ID: 062B41S101801
Inj Date : 26-OCT-2001 18:36
Operator : sga Inst ID: sfid02.i
Smp Info : 211009403
Misc Info :
Comment :
Method : \\Tyoung\ee\chem\sfid02.i\F2102601.b\FLPROS.m
Meth Date : 02-Nov-2001 15:43 sallen Quant Type: ESTD
Cal Date : 25-OCT-2001 18:26 Cal File: CAL1.D
Als bottle: 100
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: rl.sub
Target Version: 4.04
Processing Host: TYOUNG

Concentration Formula: Amt * DF * ((1/((Ws*((100-M)/100))/1000))*Vf)

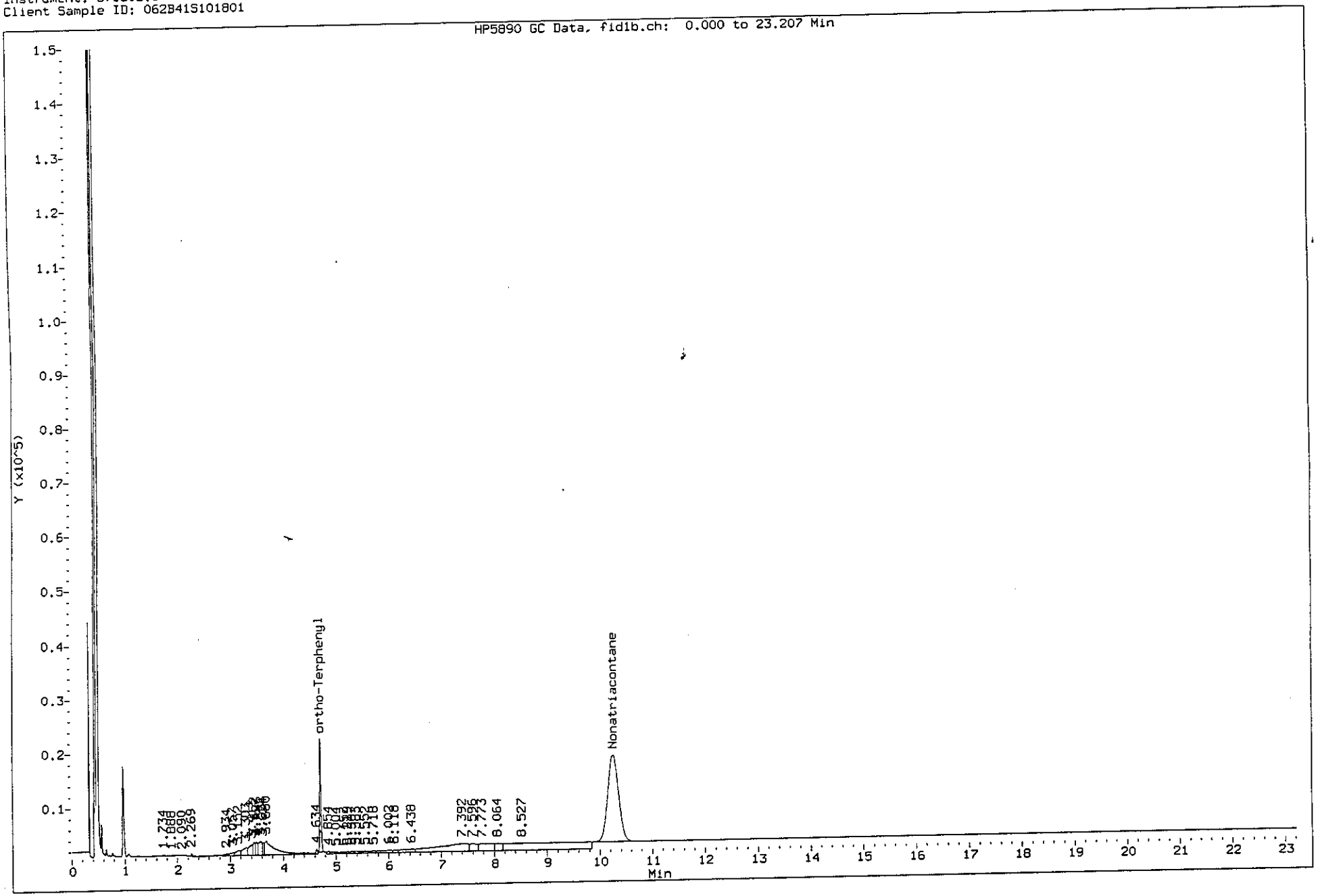
Name	Value	Description
DF	1.000	Dilution Factor
Ws	25.030	Weight of Sample
M	13.344	% Moisture
Vf	2.000	Final extract volume

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/ml)	CONCENTRATIONS FINAL (mg/Kg)
$ 2 ortho-Terphenyl	4.710	4.713	-0.003	197343	0.05533	5.1(RM)
$ 3 Nonatriacontane	10.263	10.276	-0.013	1158514	0.25608	23.6(M)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid02.i\F2102601.b\94-03.D
Injection Date: 26-OCT-2001 18:36
Instrument: sfid02.i
Client Sample ID: 062B41S101801



PEL Laboratories

Data file : \\TYOUNG\ee\chem\sfid02.i\F2102601.b\94-04.D
Lab Smp Id: 211009404 Client Smp ID: 062B70S101801
Inj Date : 26-OCT-2001 19:10
Operator : sga Inst ID: sfid02.i
Smp Info : 211009404
Misc Info :
Comment :
Method : \\Tyoung\ee\chem\sfid02.i\F2102601.b\FLPROS.m
Meth Date : 02-Nov-2001 15:43 sallen Quant Type: ESTD
Cal Date : 25-OCT-2001 18:26 Cal File: CAL1.D
Als bottle: 100
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: rl.sub
Target Version: 4.04
Processing Host: TYOUNG

Concentration Formula: Amt * DF * ((1/((Ws*((100-M)/100))/1000))*Vf)

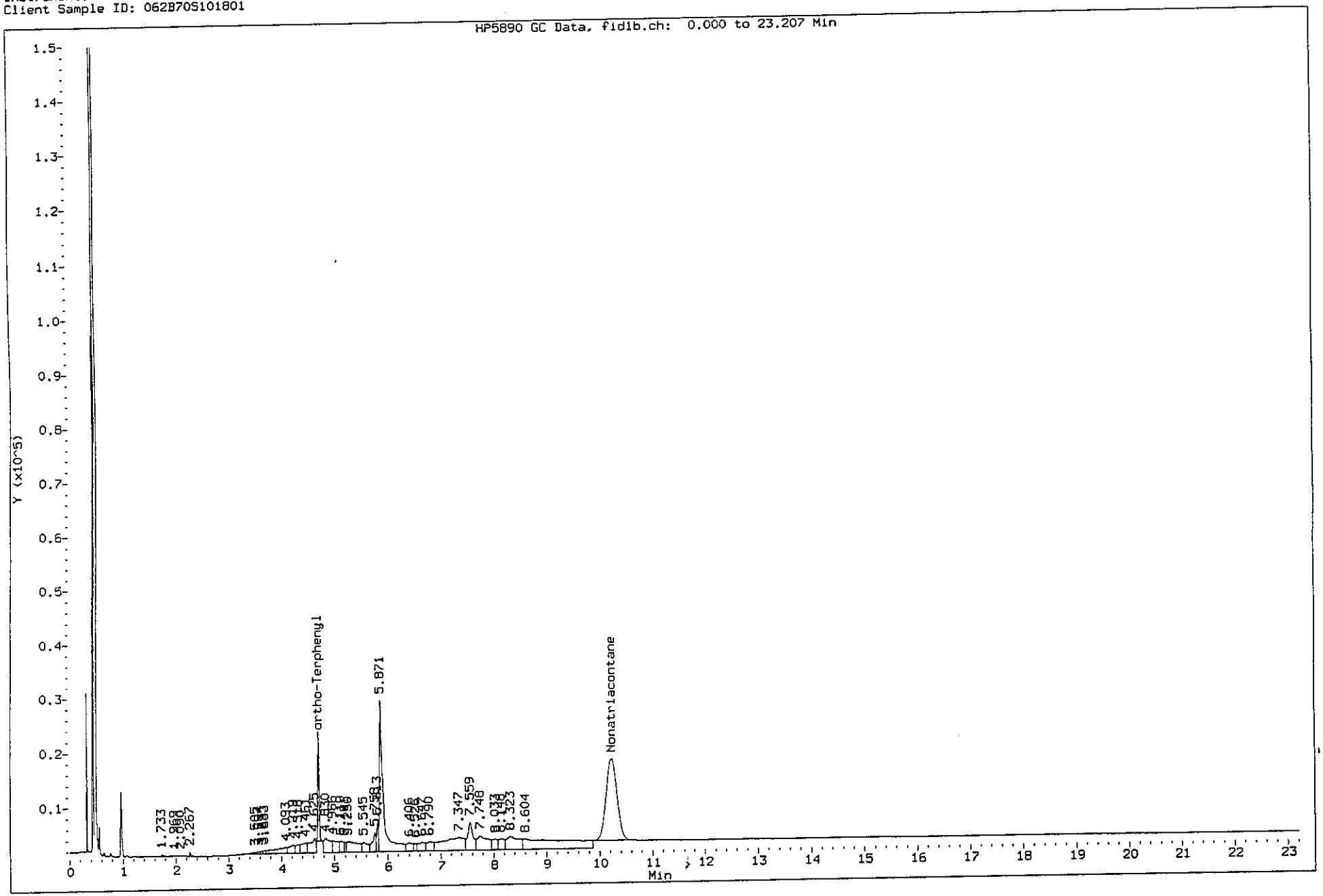
Name	Value	Description
DF	1.000	Dilution Factor
Ws	25.030	Weight of Sample
M	10.977	% Moisture
Vf	2.000	Final extract volume

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/ml)	CONCENTRATIONS FINAL (mg/Kg)
S 1 TPH (C8-C40)	1.700-12.278			3737187	0.71075	63.8(M)
$ 2 ortho-Terphenyl	4.703	4.713	-0.010	183985	0.05158	4.6(M)
$ 3 Nonatriacontane	10.233	10.276	-0.043	1063981	0.23519	21.1(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid02.i\F2102601.b\94-04.D
Injection Date: 26-OCT-2001 19:10
Instrument: sfid02.i
Client Sample ID: 062B70S101801



PEL Laboratories

Data file : \\TYOUNG\ee\chem\sfid02.i\F2102601.b\94-05D5.D
Lab Smp Id: 211009405 Client Smp ID: 062B96S101801
Inj Date : 27-OCT-2001 16:06
Operator : sga Inst ID: sfid02.i
Smp Info : 211009405
Misc Info :
Comment :
Method : \\TYOUNG\ee\chem\sfid02.i\F2102601.b\FLPROS.m
Meth Date : 02-Nov-2001 15:43 sallen Quant Type: ESTD
Cal Date : 25-OCT-2001 18:26 Cal File: CAL1.D
Als bottle: 1
Dil Factor: 5.00000
Integrator: HP Genie Compound Sublist: rl.sub
Target Version: 4.04
Processing Host: TYOUNG

Concentration Formula: Amt * DF * ((1/((Ws*((100-M)/100))/1000))*Vf)

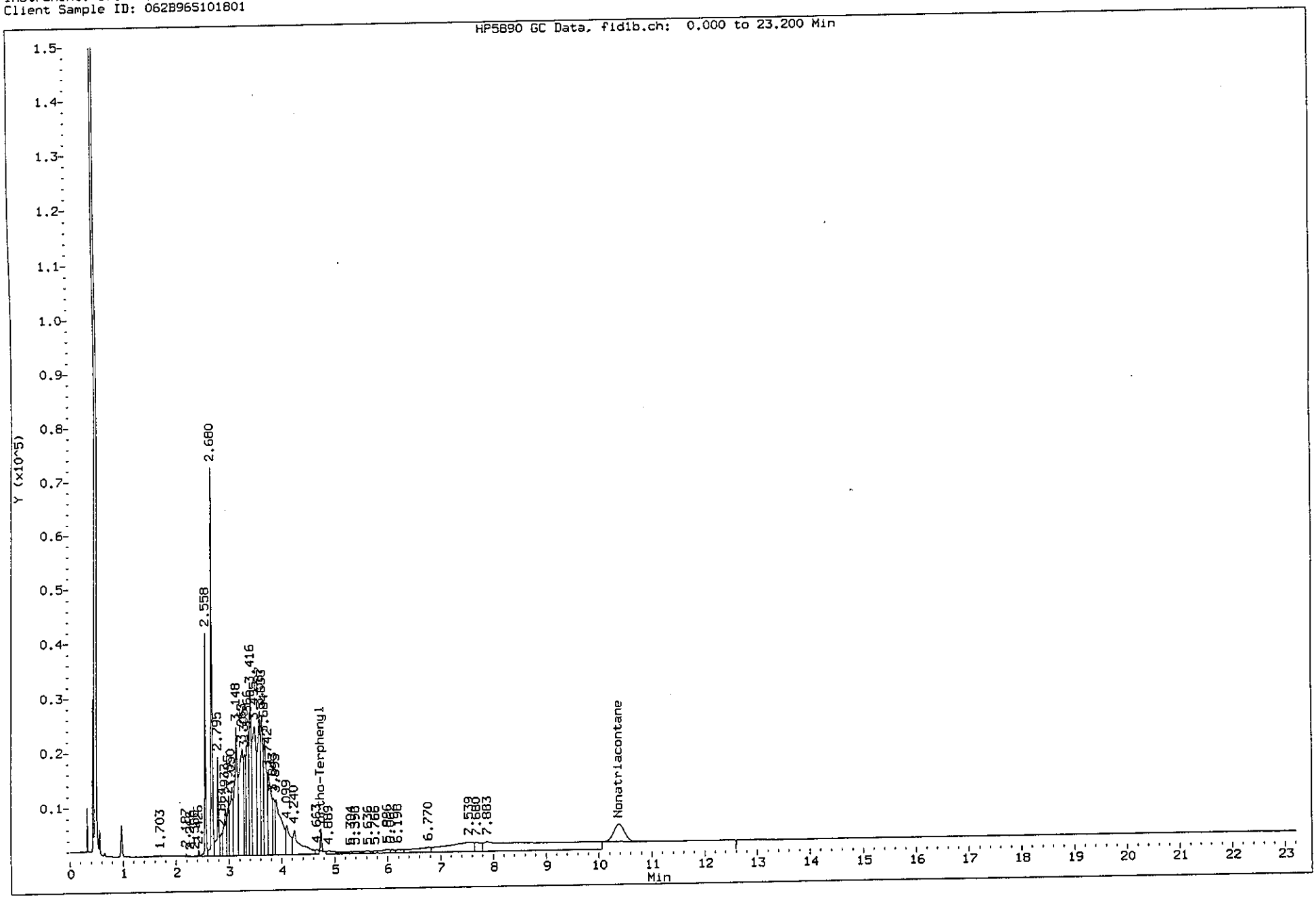
Name	Value	Description
DF	5.000	Dilution Factor
Ws	25.070	Weight of Sample
M	10.977	% Moisture
Vf	2.000	Final extract volume

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/ml)	CONCENTRATIONS FINAL (mg/Kg)
S	1 TPH (C8-C40)	1.700-12.278			8452031	2.16236	969(M)
$	2 ortho-Terphenyl	4.743	4.713	0.030	37175	0.01042	4.7(M)
$	3 Nonatriacontane	10.373	10.276	0.097	220844	0.04882	21.9(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid02.i\F2102601.b\94-05D5.D
Injection Date: 27-OCT-2001 16:06
Instrument: sfid02.i
Client Sample ID: 062B965101801



PEL Laboratories

Data file : \\TYOUNG\ee\chem\sfid02.i\F2102601.b\94-06.D
Lab Smp Id: 211009406 Client Smp ID: 062B99S101801
Inj Date : 26-OCT-2001 20:17
Operator : sga Inst ID: sfid02.i
Smp Info : 211009406
Misc Info :
Comment :
Method : \\Tyoung\ee\chem\sfid02.i\F2102601.b\FLPROS.m
Meth Date : 02-Nov-2001 15:43 sallen Quant Type: ESTD
Cal Date : 25-OCT-2001 18:26 Cal File: CAL1.D
Als bottle: 100
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: rl.sub
Target Version: 4.04
Processing Host: TYOUNG

Concentration Formula: Amt * DF * ((1/((Ws*((100-M)/100))/1000))*Vf)

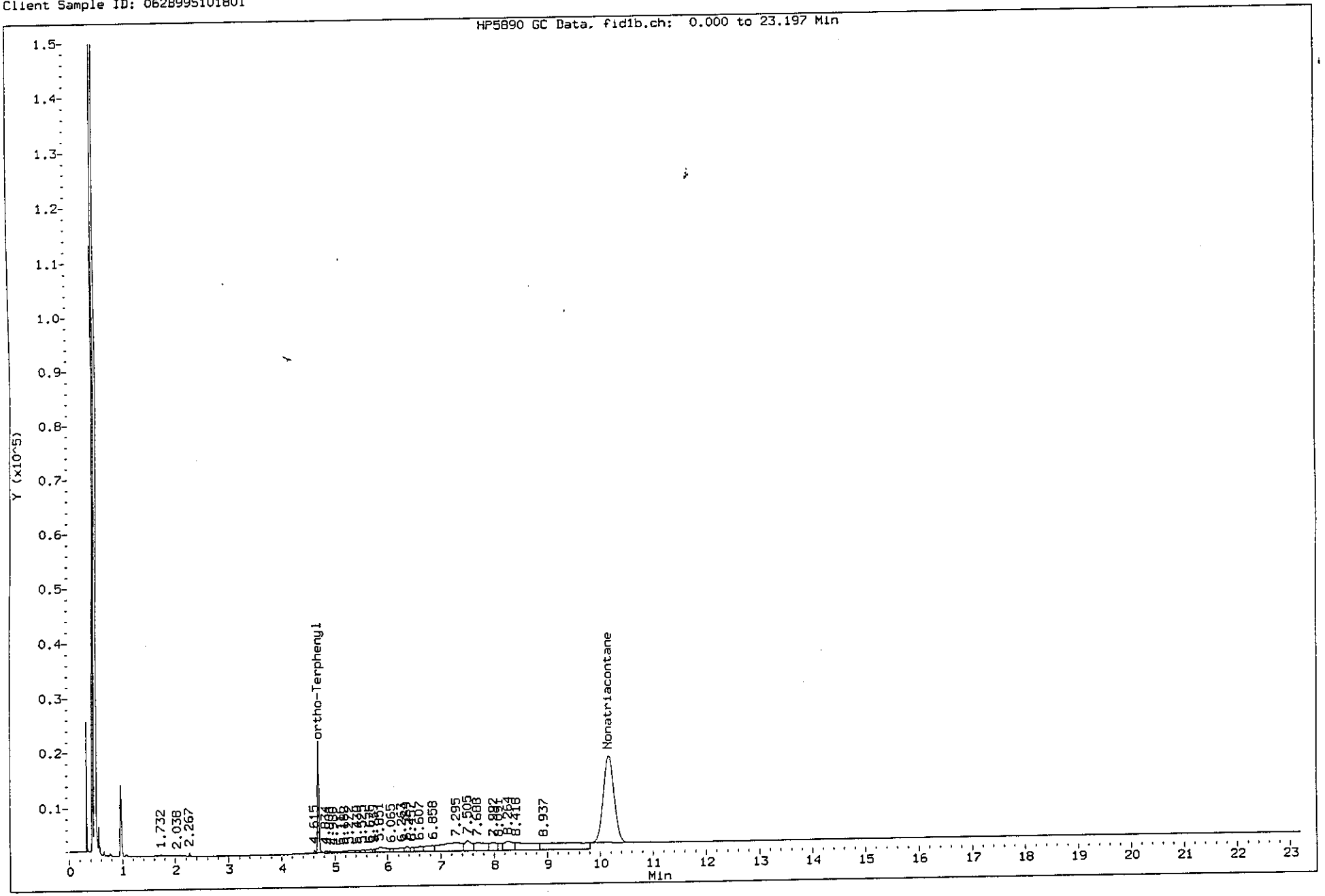
Name	Value	Description
DF	1.000	Dilution Factor
Ws	25.070	Weight of Sample
M	14.692	% Moisture
Vf	2.000	Final extract volume

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/ml)	CONCENTRATIONS FINAL (mg/Kg)
S	1 TPH (C8-C40)	1.700-12.278			2683349	0.38629	36.1(M)
$	2 ortho-Terphenyl	4.690	4.713	-0.023	186590	0.05231	4.9(M)
$	3 Nonatriacontane	10.160	10.276	-0.116	1124906	0.24865	23.2(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid02.i\F2102601.b\94-06.D
Injection Date: 26-OCT-2001 20:17
Instrument: sfid02.i
Client Sample ID: 062B995101801



PEL Laboratories

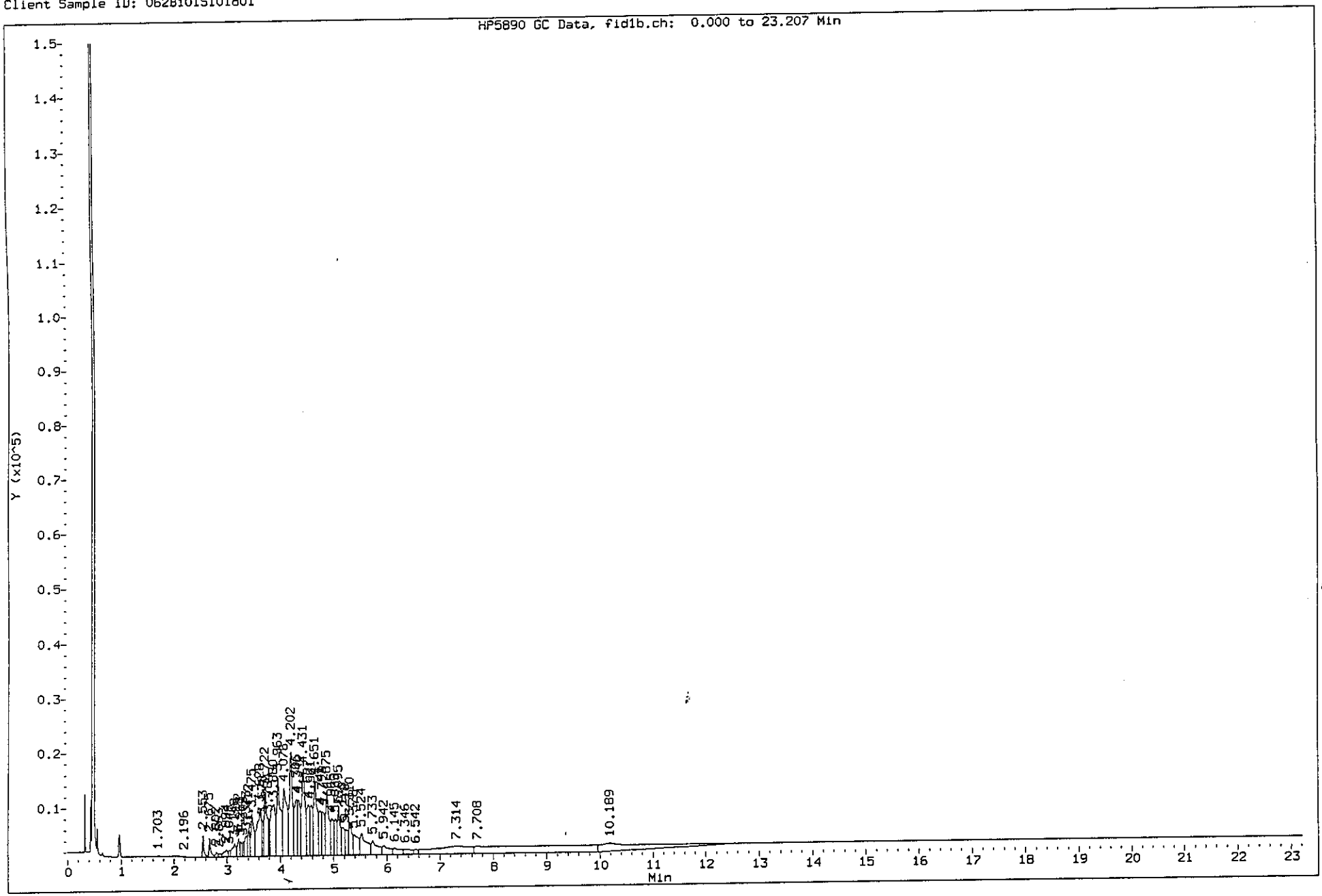
Data file : \\TYOUNG\ee\chem\sfid02.i\F2102601.b\94-07D50.D
Lab Smp Id: 211009407 Client Smp ID: 062B101S101801
Inj Date : 27-OCT-2001 16:40
Operator : sga Inst ID: sfid02.i
Smp Info : 211009407
Misc Info :
Comment :
Method : \\TYOUNG\ee\chem\sfid02.i\F2102601.b\FLPROS.m
Meth Date : 02-Nov-2001 15:43 sallen Quant Type: ESTD
Cal Date : 25-OCT-2001 18:26 Cal File: CAL1.D
Als bottle: 1
Dil Factor: 50.00000
Integrator: HP Genie Compound Sublist: rl.sub
Target Version: 4.04
Processing Host: TYOUNG

Concentration Formula: Amt * DF * ((1/((Ws*((100-M)/100))/1000))*Vf)

Name	Value	Description
DF	50.000	Dilution Factor
Ws	25.010	Weight of Sample
M	11.009	% Moisture
Vf	2.000	Final extract volume

					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/ml)	(mg/Kg)
S 1 TPH (C8-C40)	1.700-12.278			6856840	1.67123	7510

Data File: \\TYOUNG\ee\chem\sfid02.i\F2102601.b\94-07D50.D
Injection Date: 27-OCT-2001 16:40
Instrument: sfid02.i
Client Sample ID: 062B101S101801



PEL Laboratories

Data file : \\TYOUNG\ee\chem\sfid02.i\F2102601.b\94-08D50.D
Lab Smp Id: 211009408 Client Smp ID: 062B101S101801MS
Inj Date : 27-OCT-2001 17:14
Operator : sga Inst ID: sfid02.i
Smp Info : 211009408
Misc Info :
Comment :
Method : \\TYOUNG\ee\chem\sfid02.i\F2102601.b\FLPROS.m
Meth Date : 02-Nov-2001 15:43 sallen Quant Type: ESTD
Cal Date : 25-OCT-2001 18:26 Cal File: CAL1.D
Als bottle: 1 QC Sample: MS
Dil Factor: 50.00000
Integrator: HP Genie Compound Sublist: rl.sub
Target Version: 4.04
Processing Host: TYOUNG

Concentration Formula: Amt * DF * ((1/((Ws*((100-M)/100))/1000))*Vf)

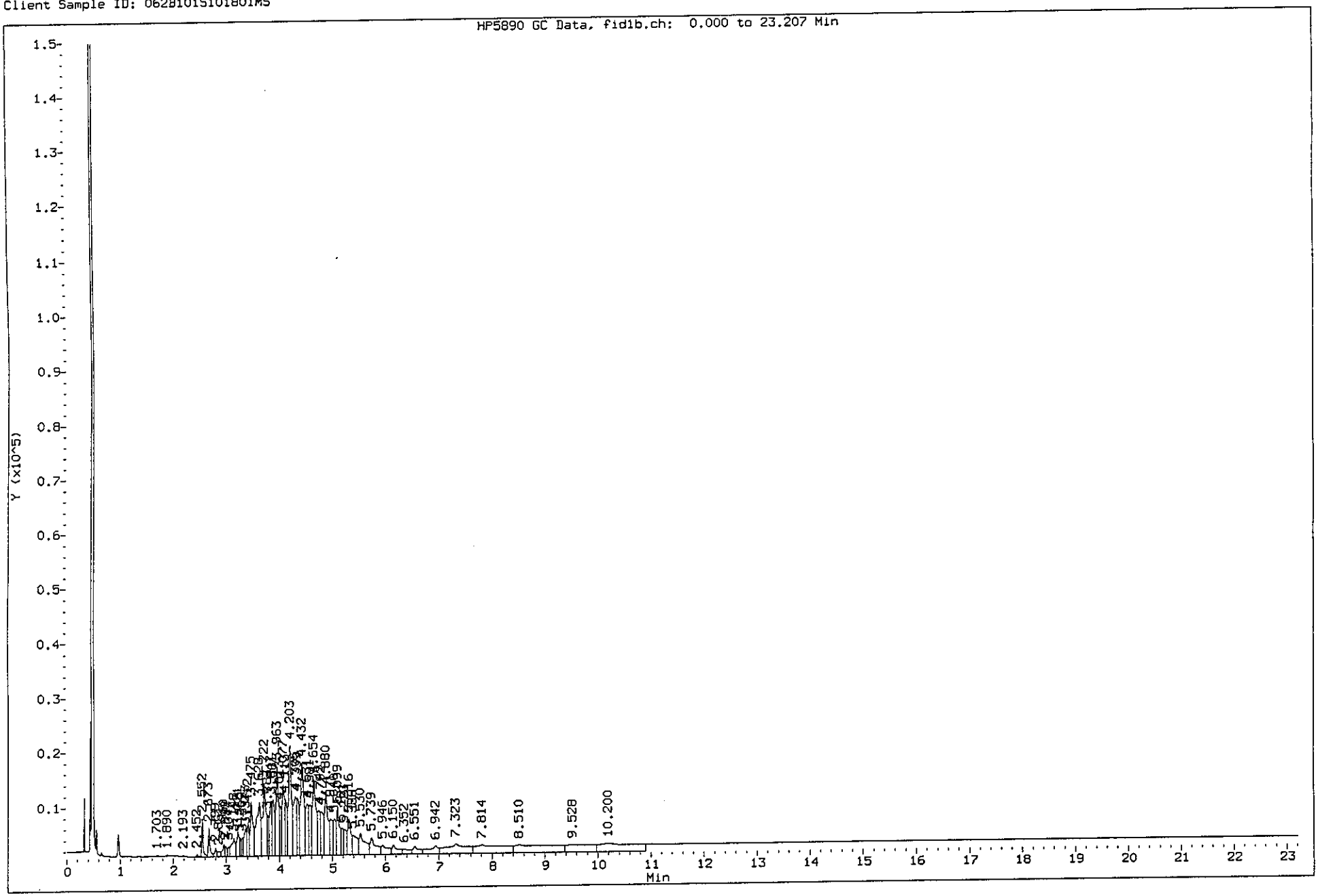
Name	Value	Description
DF	50.000	Dilution Factor
Ws	25.050	Weight of Sample
M	11.009	% Moisture
Vf	2.000	Final extract volume

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/ml)	CONCENTRATIONS FINAL (mg/Kg)
S 1 TPH (C8-C40)	1.700-12.278			7832448	1.97160	8840(RM)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid02.i\F2102601.b\94-08D50.D
Injection Date: 27-OCT-2001 17:14
Instrument: sfid02.i
Client Sample ID: 062B101S101801MS



PEL Laboratories

Data file : \\TYOUNG\ee\chem\sfid02.i\F2102601.b\94-09D50.D
Lab Smp Id: 211009409 Client Smp ID: 062B101S101801MSD
Inj Date : 27-OCT-2001 17:48
Operator : sga Inst ID: sfid02.i
Smp Info : 211009409
Misc Info :
Comment :
Method : \\TYOUNG\ee\chem\sfid02.i\F2102601.b\FLPROS.m
Meth Date : 02-Nov-2001 15:43 sallen Quant Type: ESTD
Cal Date : 25-OCT-2001 18:26 Cal File: CAL1.D
Als bottle: 1 QC Sample: MSD
Dil Factor: 50.00000
Integrator: HP Genie Compound Sublist: rl.sub
Target Version: 4.04
Processing Host: TYOUNG

Concentration Formula: Amt * DF * ((1/((Ws*((100-M)/100))/1000))*Vf)

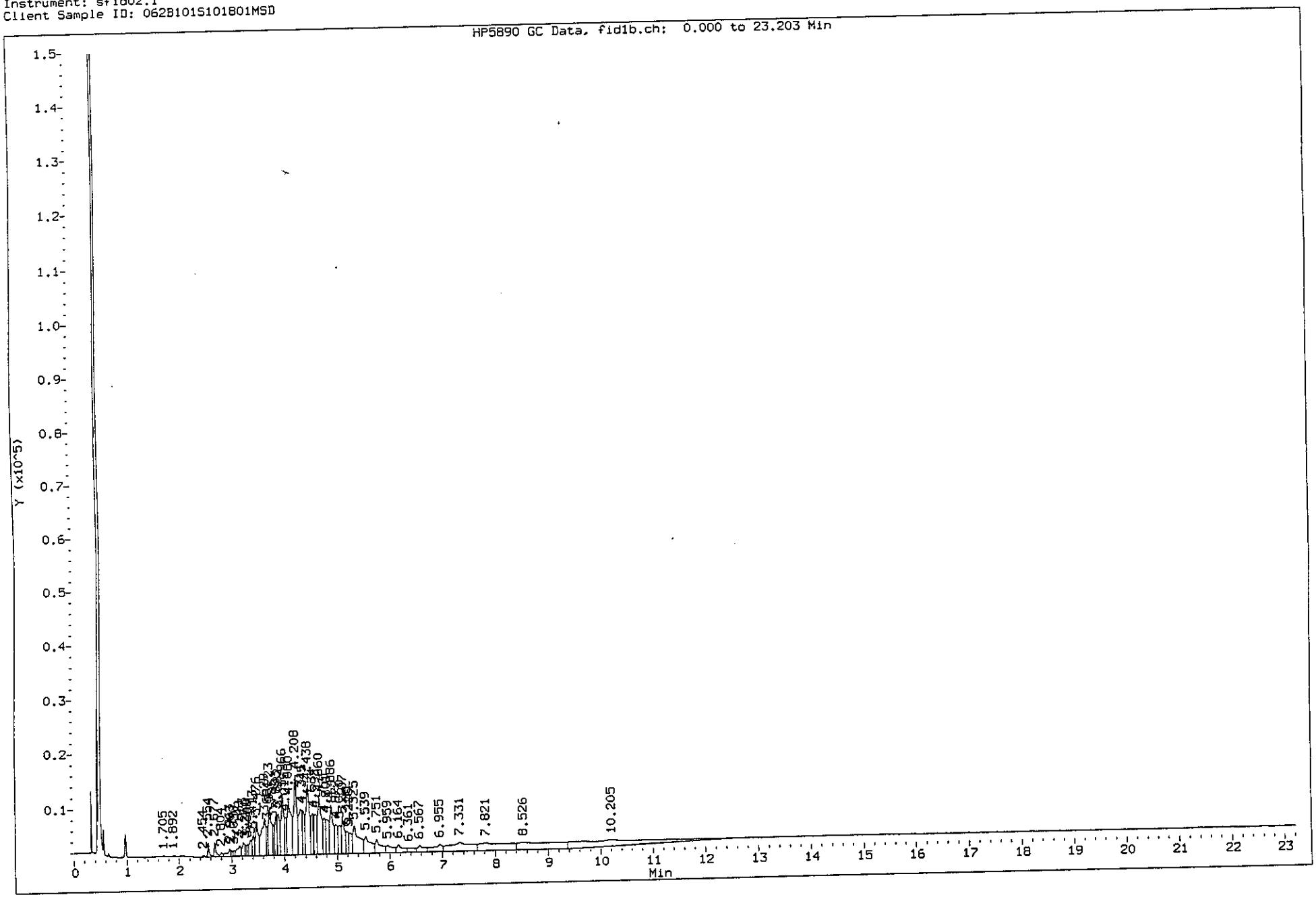
Name	Value	Description
DF	50.000	Dilution Factor
Ws	25.020	Weight of Sample
M	11.009	% Moisture
Vf	2.000	Final extract volume

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/ml)	CONCENTRATIONS FINAL (mg/Kg)
S 1 TPH (C8-C40)	1.700-12.278			5520750	1.25987	5660(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\TYOUNG\ee\chem\sfid02.i\F2102601.b\94-09D50.D
Injection Date: 27-OCT-2001 17:48
Instrument: sfid02.i
Client Sample ID: 062B101S101B01MSD



PEL Laboratories

Data file : \\TYOUNG\ee\chem\sfid02.i\F2102601.b\94-10.D
Lab Smp Id: 211009410 Client Smp ID: 062B104S101801
Inj Date : 26-OCT-2001 23:07
Operator : sga Inst ID: sfid02.i
Smp Info : 211009410
Misc Info :
Comment :
Method : \\Tyoung\ee\chem\sfid02.i\F2102601.b\FLPROS.m
Meth Date : 02-Nov-2001 15:43 sallen Quant Type: ESTD
Cal Date : 25-OCT-2001 18:26 Cal File: CAL1.D
Als bottle: 100
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: rl.sub
Target Version: 4.04
Processing Host: TYOUNG

Concentration Formula: Amt * DF * ((1/((Ws*((100-M)/100))/1000))*Vf)

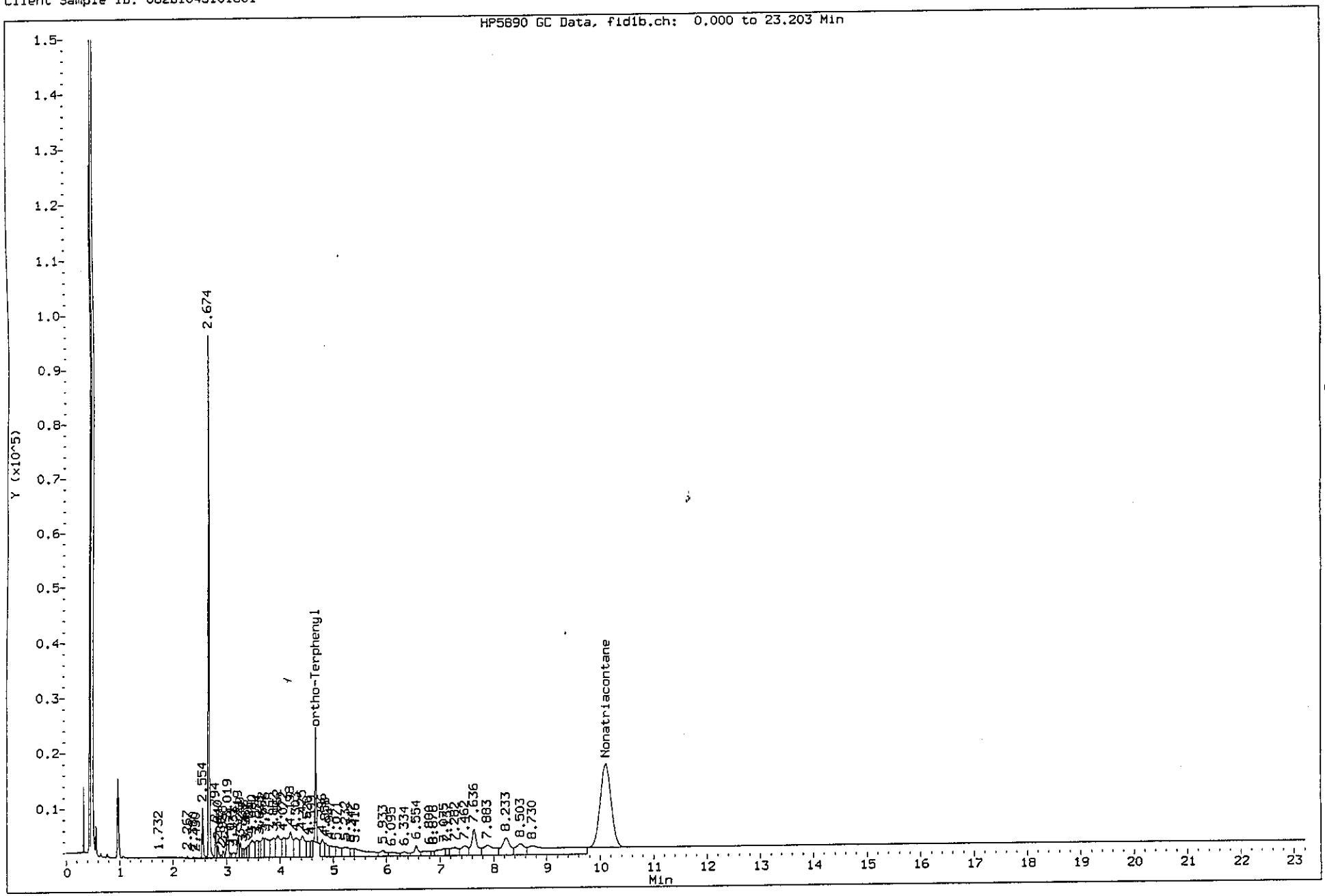
Name	Value	Description
DF	1.000	Dilution Factor
Ws	25.030	Weight of Sample
M	11.108	% Moisture
Vf	2.000	Final extract volume

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/ml)	CONCENTRATIONS FINAL (mg/Kg)
S 1 TPH (C8-C40)	1.700-12.278			4324038	0.89143	80.1(M)
$ 2 ortho-Terphenyl	4.676	4.713	-0.037	182524	0.05117	4.6(M)
$ 3 Nonatriacontane	10.113	10.276	-0.163	1066968	0.23585	21.2(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid02.i\F2102601.b\94-10.D
Injection Date: 26-OCT-2001 23:07
Instrument: sfid02.i
Client Sample ID: 062B104S101801



PEL Laboratories

Data file : \\TYOUNG\ee\chem\sfid02.i\F2102601.b\94-11.D
Lab Smp Id: 211009411 Client Smp ID: 062B106S101801
Inj Date : 26-OCT-2001 23:42
Operator : sga Inst ID: sfid02.i
Smp Info : 211009411
Misc Info :
Comment :
Method : \\Tyoung\ee\chem\sfid02.i\F2102601.b\FLPROS.m
Meth Date : 02-Nov-2001 15:43 sallen Quant Type: ESTD
Cal Date : 25-OCT-2001 18:26 Cal File: CAL1.D
Als bottle: 100
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: rl.sub
Target Version: 4.04
Processing Host: TYOUNG

Concentration Formula: Amt * DF * ((1/((Ws*((100-M)/100))/1000))*Vf)

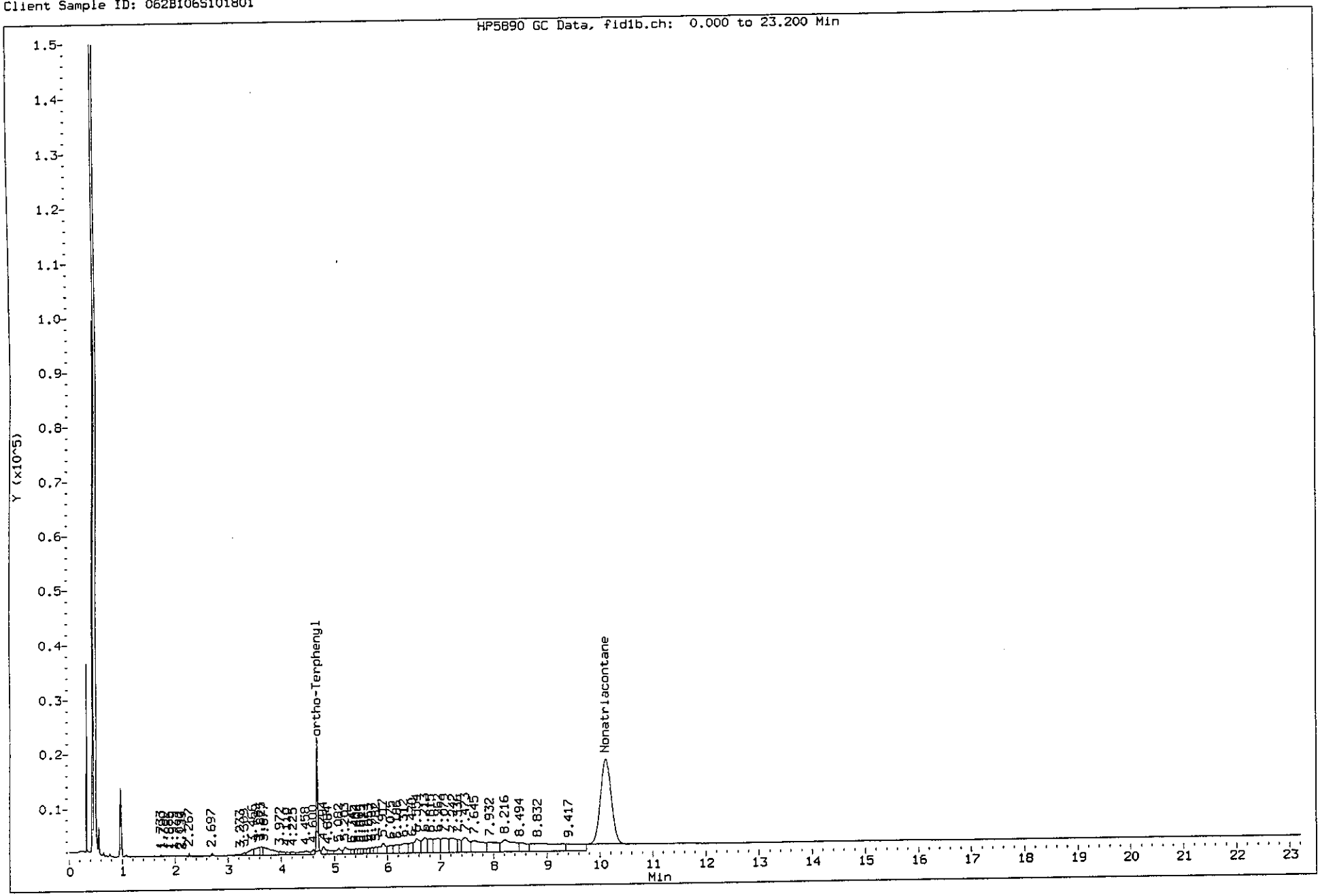
Name	Value	Description
DF	1.000	Dilution Factor
Ws	25.050	Weight of Sample
M	9.089	% Moisture
Vf	2.000	Final extract volume

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/ml)	CONCENTRATIONS FINAL (mg/Kg)
S 1 TPH (C8-C40)	1.700-12.278			2786130	0.41794	36.7(M)
$ 2 ortho-Terphenyl	4.676	4.713	-0.037	189308	0.05308	4.7(M)
$ 3 Nonatriacontane	10.110	10.276	-0.166	1107395	0.24478	21.5(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid02.i\F2102601.b\94-11.D
Injection Date: 26-OCT-2001 23:42
Instrument: sfid02.i
Client Sample ID: 062B106S101801



PEL Laboratories

Data file : \\TYOUNG\ee\chem\sfid02.i\F2102601.b\94-12.D
Lab Smp Id: 211009412 Client Smp ID: 062B110S101801
Inj Date : 27-OCT-2001 00:15
Operator : sga Inst ID: sfid02.i
Smp Info : 211009412
Misc Info :
Comment :
Method : \\Tyoung\ee\chem\sfid02.i\F2102601.b\FLPROS.m
Meth Date : 02-Nov-2001 15:43 sallen Quant Type: ESTD
Cal Date : 25-OCT-2001 18:26 Cal File: CAL1.D
Als bottle: 100
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: rl.sub
Target Version: 4.04
Processing Host: TYOUNG

Concentration Formula: Amt * DF * ((1/((Ws*((100-M)/100))/1000))*Vf)

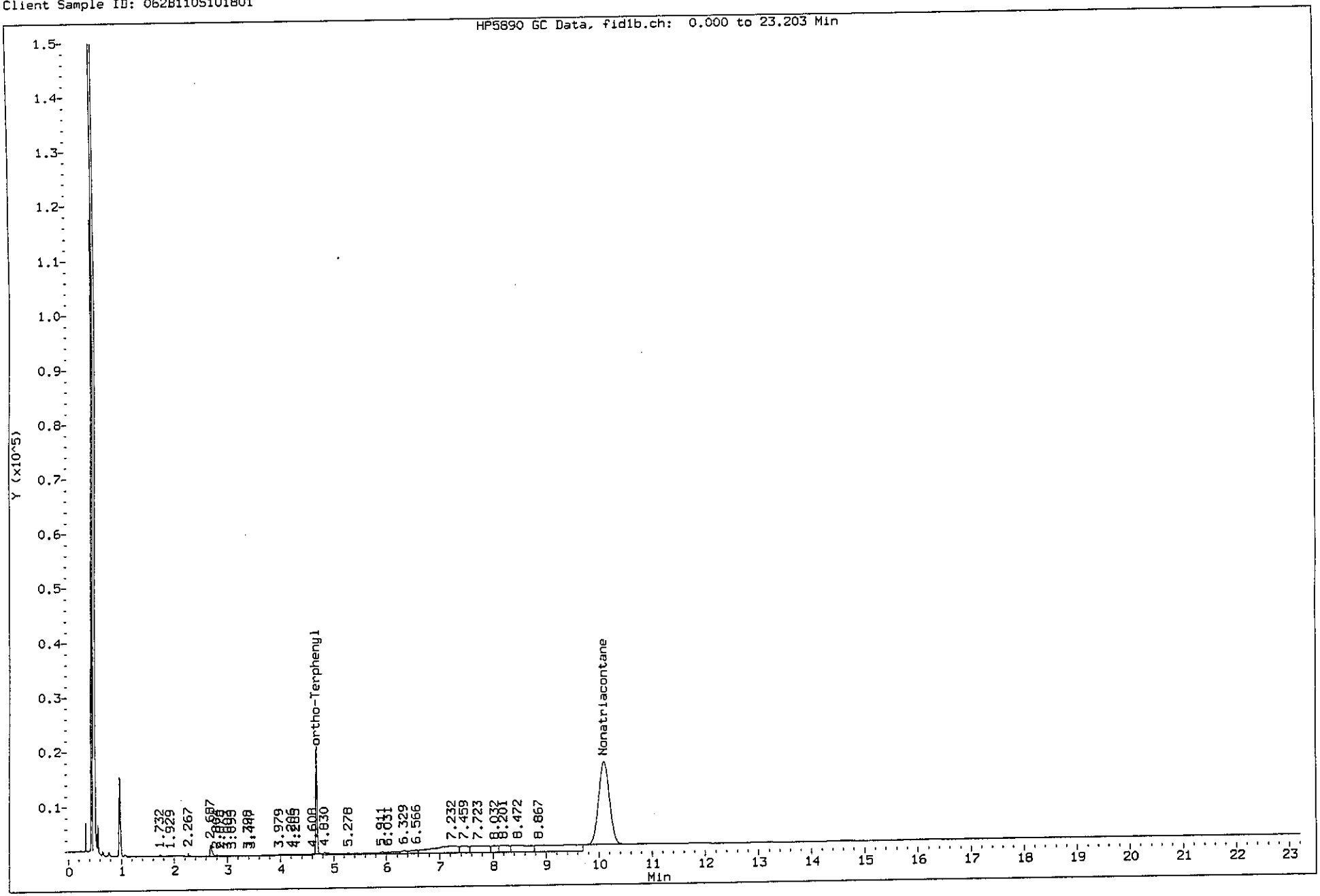
Name	Value	Description
DF	1.000	Dilution Factor
Ws	25.030	Weight of Sample
M	12.507	% Moisture
Vf	2.000	Final extract volume

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/ml)	CONCENTRATIONS FINAL (mg/Kg)
$ 2 ortho-Terphenyl	4.680	4.713	-0.033	178447	0.05003	4.6(M)
$ 3 Nonatriacontane	10.093	10.276	-0.183	1069235	0.23635	21.6(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid02.i\F2102601.b\94-12.D
Injection Date: 27-OCT-2001 00:15
Instrument: sfid02.i
Client Sample ID: 062B110S101801



PEL Laboratories

Data file : \\TYOUNG\ee\chem\sfid02.i\F2102601.b\94-13.D
Lab Smp Id: 211009413 Client Smp ID: 062B137S101801
Inj Date : 27-OCT-2001 00:49
Operator : sga Inst ID: sfid02.i
Smp Info : 211009413
Misc Info :
Comment :
Method : \\Tyoung\ee\chem\sfid02.i\F2102601.b\FLPROS.m
Meth Date : 02-Nov-2001 15:43 sallen Quant Type: ESTD
Cal Date : 25-OCT-2001 18:26 Cal File: CAL1.D
Als bottle: 100
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: rl.sub
Target Version: 4.04
Processing Host: TYOUNG

Concentration Formula: Amt * DF * ((1/((Ws*((100-M)/100))/1000))*Vf)

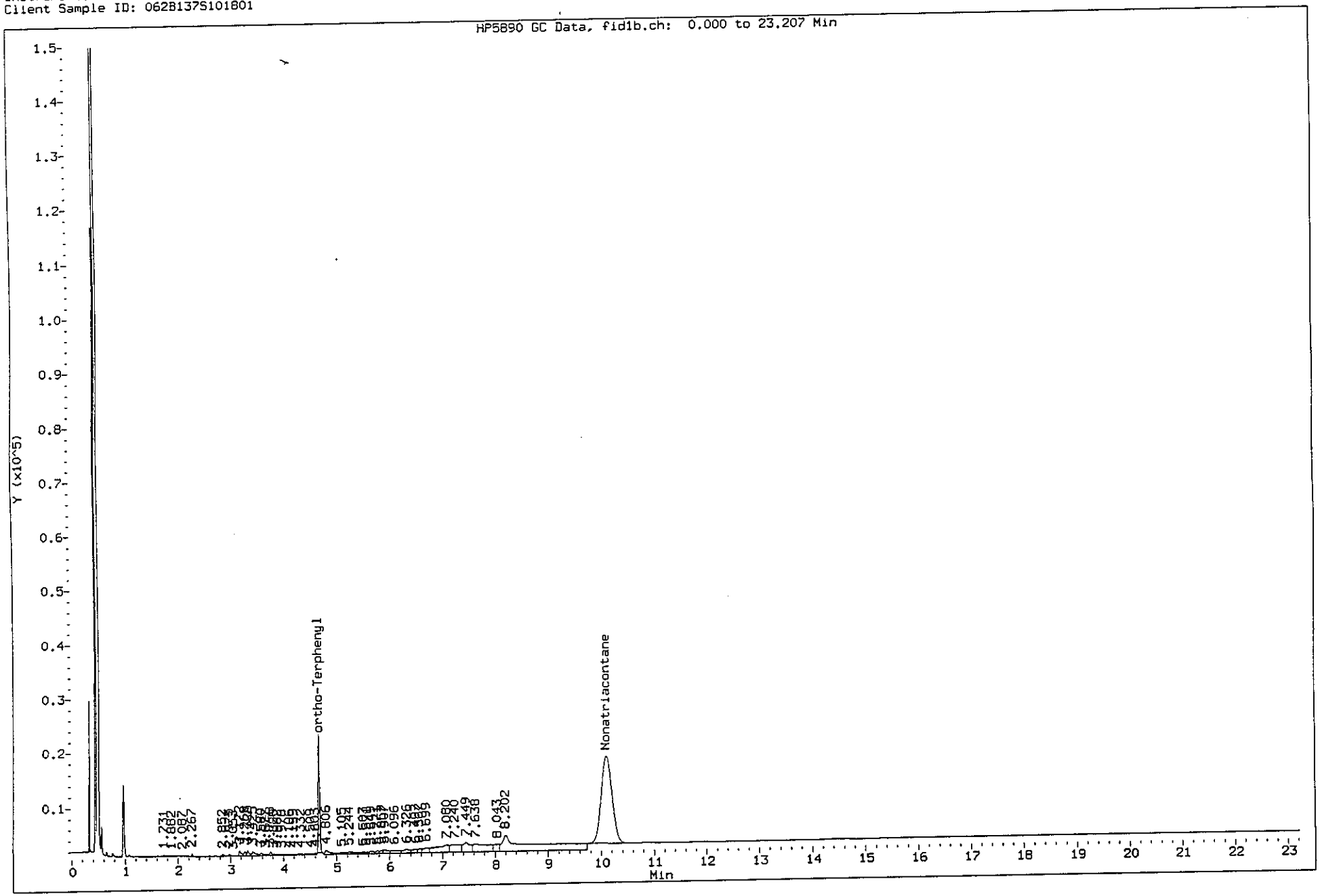
Name	Value	Description
DF	1.000	Dilution Factor
Ws	25.070	Weight of Sample
M	10.930	% Moisture
Vf	2.000	Final extract volume

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/ml)	CONCENTRATIONS FINAL (mg/Kg)
$ 2 ortho-Terphenyl	4.676	4.713	-0.037	193639	0.05429	4.9(M)
$ 3 Nonatriacontane	10.103	10.276	-0.173	1136796	0.25128	22.5(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid02.i\F2102601.b\94-13.D
Injection Date: 27-OCT-2001 00:49
Instrument: sfid02.i
Client Sample ID: 062B137S101801



PEL Laboratories

Data file : \\TYOUNG\ee\chem\sfid02.i\F2102601.b\94-15.D
Lab Smp Id: 211009415 Client Smp ID: 062B158S101801
Inj Date : 27-OCT-2001 01:57
Operator : sga Inst ID: sfid02.i
Smp Info : 211009415
Misc Info :
Comment :
Method : \\Tyoung\ee\chem\sfid02.i\F2102601.b\FLPROS.m
Meth Date : 02-Nov-2001 15:43 sallen Quant Type: ESTD
Cal Date : 25-OCT-2001 18:26 Cal File: CAL1.D
Als bottle: 100
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: rl.sub
Target Version: 4.04
Processing Host: TYOUNG

Concentration Formula: Amt * DF * ((1/((Ws*((100-M)/100))/1000))*Vf)

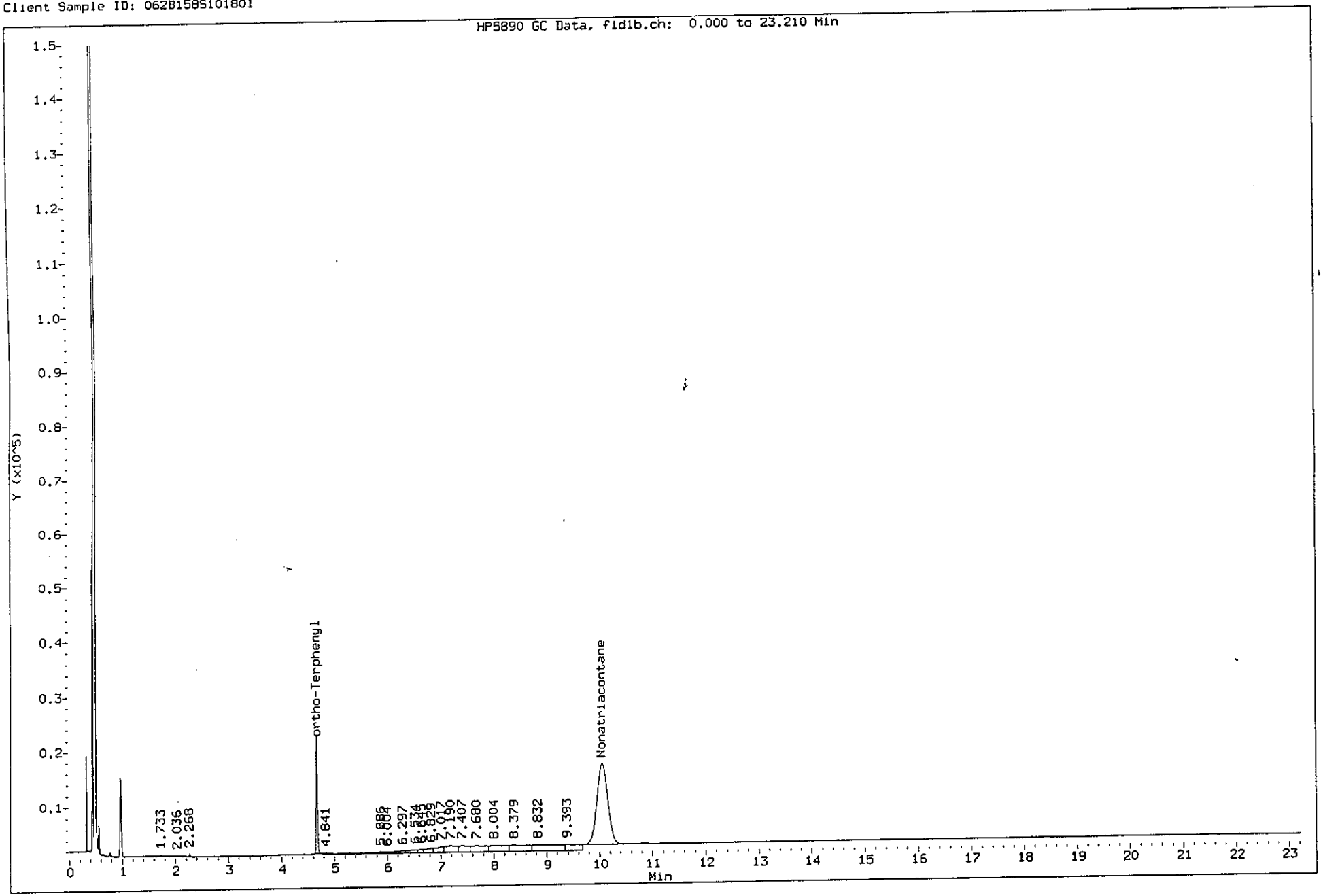
Name	Value	Description
DF	1.000	Dilution Factor
Ws	25.040	Weight of Sample
M	15.798	% Moisture
Vf	2.000	Final extract volume

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/ml)	CONCENTRATIONS FINAL (mg/Kg)
$ 2 ortho-Terphenyl	4.670	4.713	-0.043	192971	0.05410	5.1(M)
$ 3 Nonatriacontane	10.046	10.276	-0.230	1039970	0.22988	21.8(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid02.i\F2102601.b\94-15.D
Injection Date: 27-OCT-2001 01:57
Instrument: sfid02.i
Client Sample ID: 062B1585101801



PEL Laboratories

Data file : \\TYOUNG\ee\chem\sfid02.i\F2102601.b\94-17.D
Lab Smp Id: 211009417 Client Smp ID: 062B189S101801
Inj Date : 27-OCT-2001 03:39
Operator : sga Inst ID: sfid02.i
Smp Info : 211009417
Misc Info :
Comment :
Method : \\Tyoung\ee\chem\sfid02.i\F2102601.b\FLPROS.m
Meth Date : 02-Nov-2001 15:43 sallen Quant Type: ESTD
Cal Date : 25-OCT-2001 18:26 Cal File: CAL1.D
Als bottle: 100
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: rl.sub
Target Version: 4.04
Processing Host: TYOUNG

Concentration Formula: Amt * DF * ((1/((Ws*((100-M)/100))/1000))*Vf)

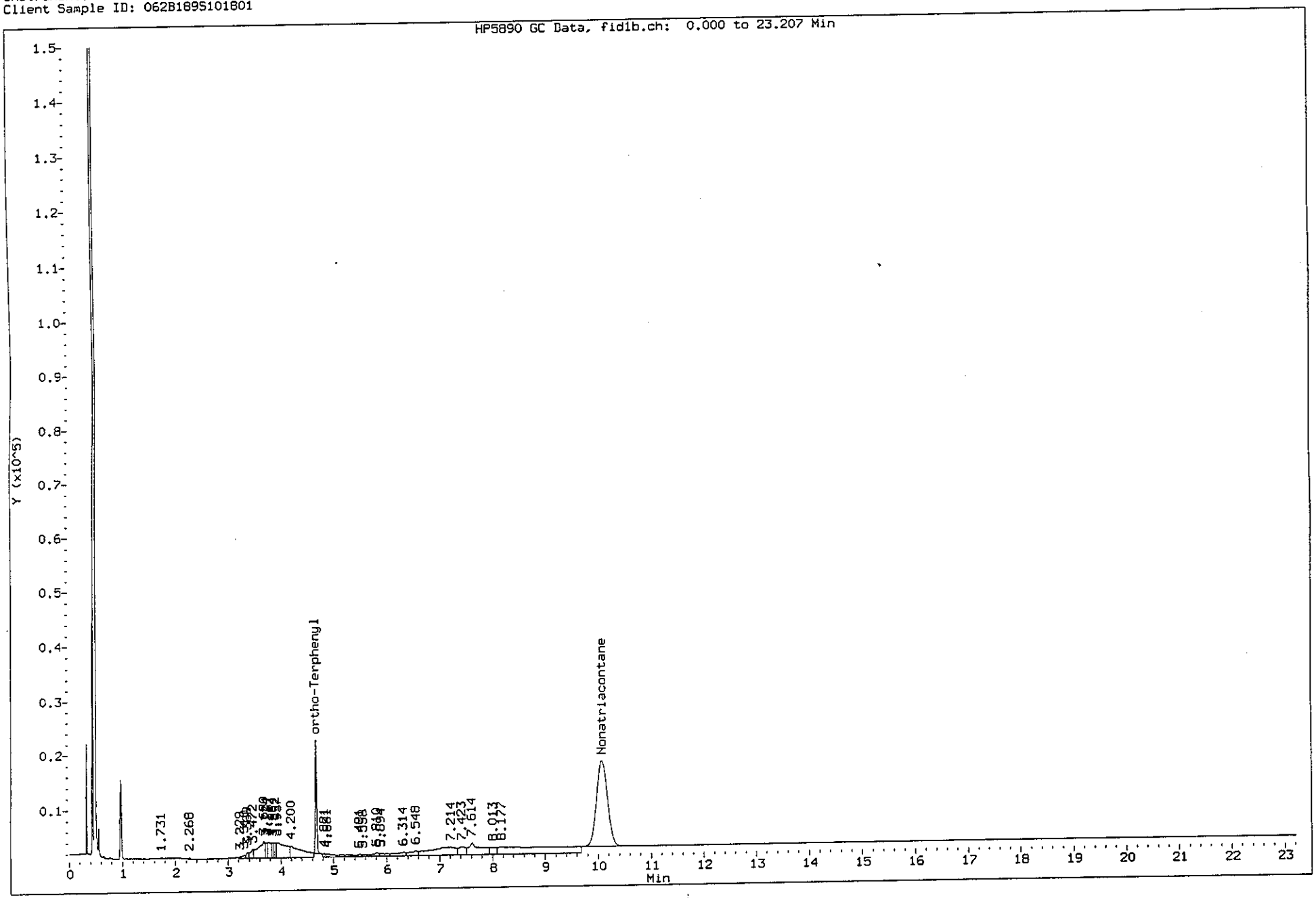
Name	Value	Description
DF	1.000	Dilution Factor
Ws	25.050	Weight of Sample
M	11.457	% Moisture
Vf	2.000	Final extract volume

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/ml)	CONCENTRATIONS FINAL (mg/Kg)
S	1 TPH (C8-C40)	1.700-12.278			2059401	0.19419	17.5(M)
$	2 ortho-Terphenyl	4.673	4.713	-0.040	187851	0.05267	4.7(M)
$	3 Nonatriacontane	10.083	10.276	-0.193	1122636	0.24815	22.4(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid02.i\F2102601.b\94-17.D
Injection Date: 27-OCT-2001 03:39
Instrument: sfid02.i
Client Sample ID: 062B189S101801



PEL Laboratories

Data file : \\TYOUNG\ee\chem\sfid02.i\F2102601.b\94-18.D
Lab Smp Id: 211009418 Client Smp ID: 062DUP1S101801
Inj Date : 27-OCT-2001 04:13
Operator : sga Inst ID: sfid02.i
Smp Info : 211009418
Misc Info :
Comment :
Method : \\Tyoung\ee\chem\sfid02.i\F2102601.b\FLPROS.m
Meth Date : 02-Nov-2001 15:43 sallen Quant Type: ESTD
Cal Date : 25-OCT-2001 18:26 Cal File: CAL1.D
Als bottle: 100
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: rl.sub
Target Version: 4.04
Processing Host: TYOUNG

Concentration Formula: Amt * DF * ((1/((Ws*((100-M)/100))/1000))*Vf)

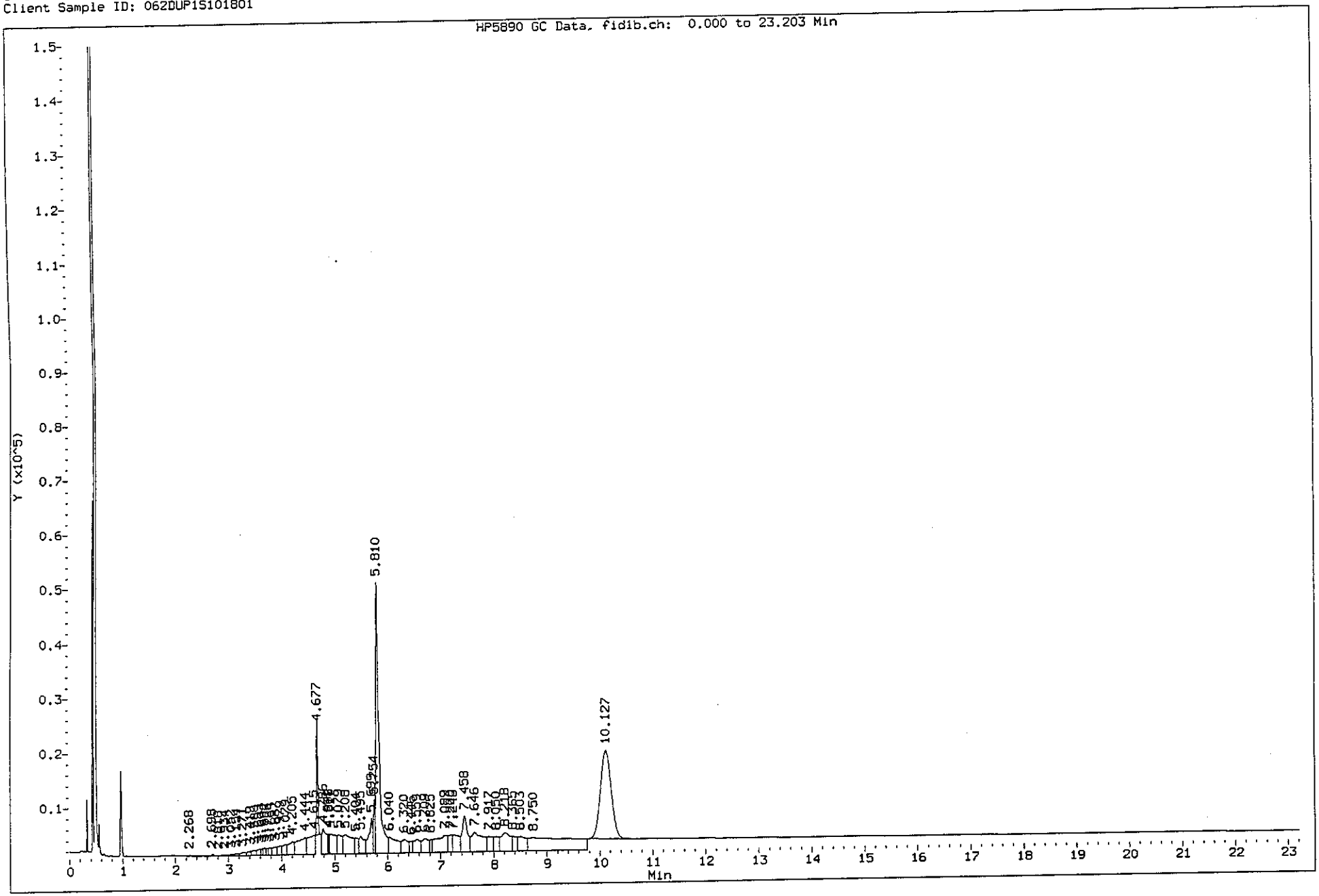
Name	Value	Description
DF	1.000	Dilution Factor
Ws	25.050	Weight of Sample
M	10.548	% Moisture
Vf	2.000	Final extract volume

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/ml)	CONCENTRATIONS FINAL (mg/Kg)
S 1 TPH (C8-C40)	1.700-12.278			5726715	1.32329	118(MH)
$ 2 ortho-Terphenyl	4.676	4.713	-0.037	187495	0.05257	4.7(M)
$ 3 Nonatriacontane	10.126	10.276	-0.150	1143027	0.25266	22.6(M)

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\TYOUNG\ee\chem\sfid02.i\F2102601.b\94-18.D
Injection Date: 27-OCT-2001 04:13
Instrument: sfid02.i
Client Sample ID: 062DUP1S101801



PEL Laboratories

Data file : \\TYOUNG\ee\chem\sfid02.i\F2102601.b\94-19.D
Lab Smp Id: 211009419 Client Smp ID: 062DUP2S101801
Inj Date : 27-OCT-2001 04:47
Operator : sga Inst ID: sfid02.i
Smp Info : 211009419
Misc Info :
Comment :
Method : \\Tyoung\ee\chem\sfid02.i\F2102601.b\FLPROS.m
Meth Date : 02-Nov-2001 15:43 sallen Quant Type: ESTD
Cal Date : 25-OCT-2001 18:26 Cal File: CAL1.D
Als bottle: 100
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: rl.sub
Target Version: 4.04
Processing Host: TYOUNG

Concentration Formula: Amt * DF * ((1/((Ws*((100-M)/100))/1000))*Vf)

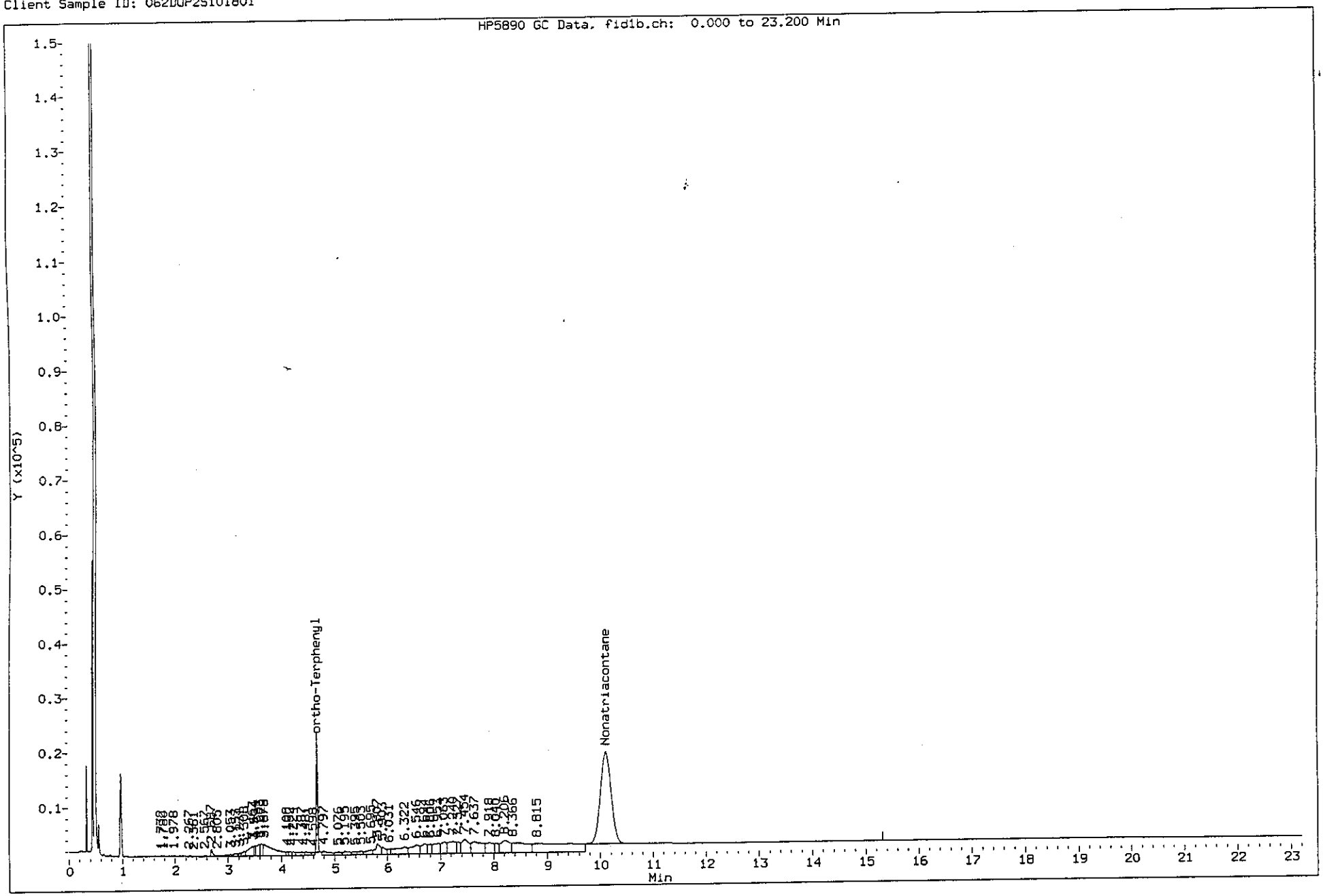
Name	Value	Description
DF	1.000	Dilution Factor
Ws	25.050	Weight of Sample
M	14.176	% Moisture
Vf	2.000	Final extract volume

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/ml)	CONCENTRATIONS FINAL (mg/Kg)
S	1 TPH (C8-C40)	1.700-12.278			2546225	0.34408	32.0(M)
$	2 ortho-Terphenyl	4.670	4.713	-0.043	194100	0.05442	5.1(RM)
$	3 Nonatriacontane	10.106	10.276	-0.170	1184105	0.26174	24.3(M)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid02.i\F2102601.b\94-19.D
Injection Date: 27-OCT-2001 04:47
Instrument: sfid02.i
Client Sample ID: 062DUP2S101801



PEL Laboratories

Data file : \\TYOUNG\ee\chem\sfid02.i\F2102601.b\CCV2.D
Lab Smp Id: CCV2SV3119 Client Smp ID: CCV2SV3119
Inj Date : 26-OCT-2001 20:51
Operator : sga Inst ID: sfid02.i
Smp Info : CCV2SV3119
Misc Info :
Comment :
Method : \\TYOUNG\ee\chem\sfid02.i\F2102601.b\FLPROS.m
Meth Date : 02-Nov-2001 15:43 sallen Quant Type: ESTD
Cal Date : 25-OCT-2001 18:26 Cal File: CAL1.D
Als bottle: 100 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.04
Processing Host: TYOUNG

Concentration Formula: Amt * DF * ((1/((Ws*((100-M)/100))/1000))*Vf)

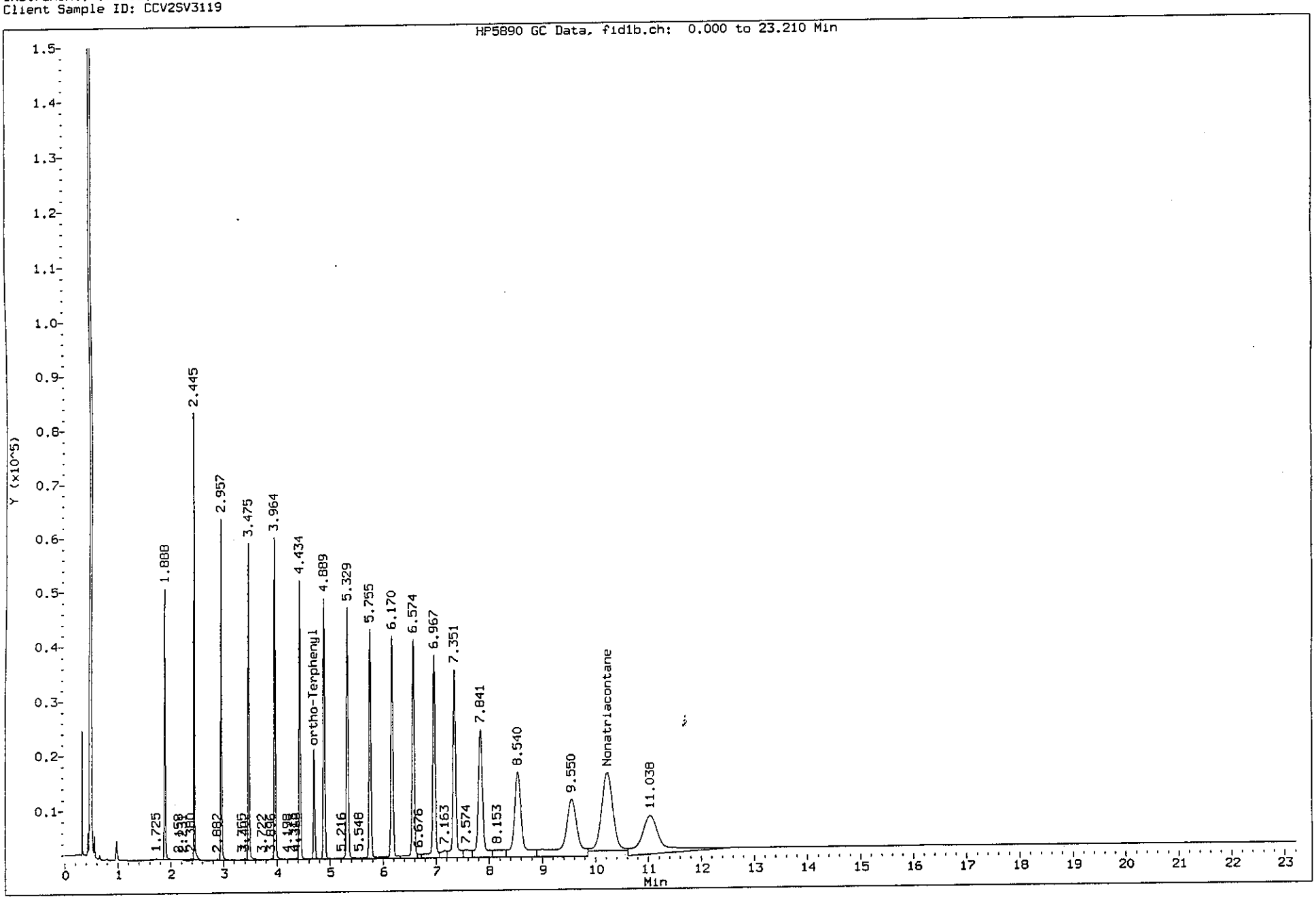
Name	Value	Description
DF	1.000	Dilution Factor
Ws	25.000	Weight of Sample
M	0.000	% Moisture
Vf	2.000	Final extract volume

						AMOUNTS CAL-AMT (mg/ml)	AMOUNTS ON-COL (mg/ml)
Compounds		RT	EXP RT	DLT RT	RESPONSE		
S	1 TPH (C8-C40)	1.700-12.278			10231908	2.55000	2.7(M)
$	2 ortho-Terphenyl	4.700	4.713	-0.013	182468	0.05000	0.051(M)
$	3 Nonatriacontane	10.230	10.276	-0.046	1066388	0.30000	0.24(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid02.i\F2102601.b\CCV2.D
Injection Date: 26-OCT-2001 20:51
Instrument: sfid02.i
Client Sample ID: CCV2SV3119



PEL Laboratories

Data file : \\TYOUNG\ee\chem\sfid02.i\F2102601.b\CCV3.D
Lab Smp Id: CCV3SV3119 Client Smp ID: CCV3SV3119
Inj Date : 27-OCT-2001 03:06
Operator : sga Inst ID: sfid02.i
Smp Info : CCV3SV3119
Misc Info :
Comment :
Method : \\Tyoung\ee\chem\sfid02.i\F2102601.b\FLPROS.m
Meth Date : 02-Nov-2001 15:43 sallen Quant Type: ESTD
Cal Date : 25-OCT-2001 18:26 Cal File: CAL1.D
Als bottle: 100 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.04
Processing Host: TYOUNG

Concentration Formula: Amt * DF * ((1/((Ws*((100-M)/100))/1000))*Vf)

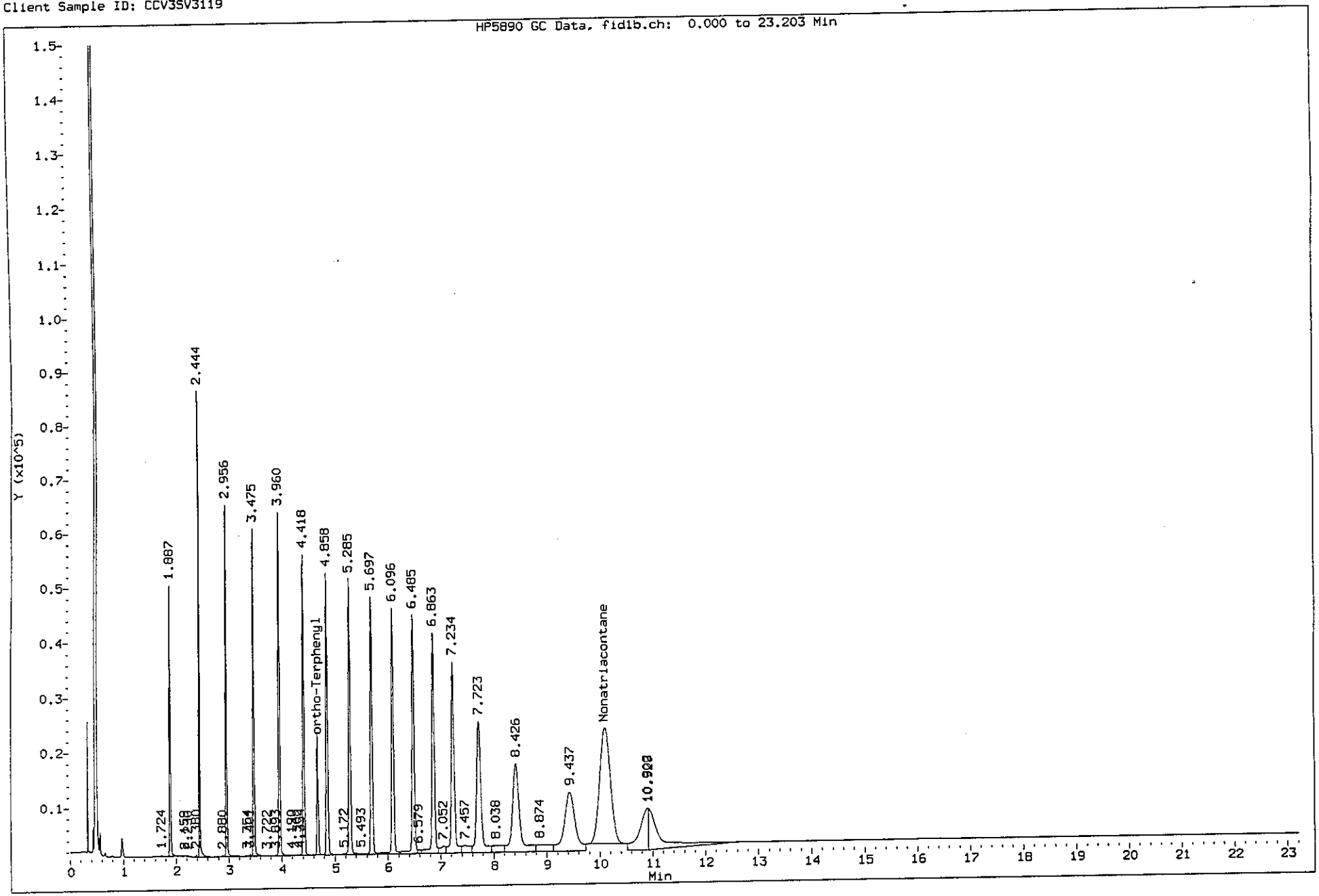
Name	Value	Description
DF	1.000	Dilution Factor
Ws	25.000	Weight of Sample
M	0.000	% Moisture
Vf	2.000	Final extract volume

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/ml)	(mg/ml)
S 1 TPH (C8-C40)	1.700-12.278			10589889	2.55000	2.8(M)
$ 2 ortho-Terphenyl	4.676	4.713	-0.037	193508	0.05000	0.054(M)
$ 3 Nonatriacontane	10.096	10.276	-0.180	1502775	0.30000	0.33(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid02.i\F2102601.b\CCV3.D
Injection Date: 27-OCT-2001 03:06
Instrument: sfid02.i
Client Sample ID: CCV3SV3119



PEL Laboratories

Data file : \\TYOUNG\ee\chem\sfid02.i\F2102601.b\CCV4.D
Lab Smp Id: CCV4SV3119 Client Smp ID: CCV4SV3119
Inj Date : 27-OCT-2001 05:21
Operator : sga Inst ID: sfid02.i
Smp Info : CCV4SV3119
Misc Info :
Comment :
Method : \\Tyoung\ee\chem\sfid02.i\F2102601.b\FLPROS.m
Meth Date : 02-Nov-2001 15:43 sallen Quant Type: ESTD
Cal Date : 25-OCT-2001 18:26 Cal File: CAL1.D
Als bottle: 100 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.04
Processing Host: TYOUNG

Concentration Formula: Amt * DF * ((1/((Ws*((100-M)/100))/1000))*Vf)

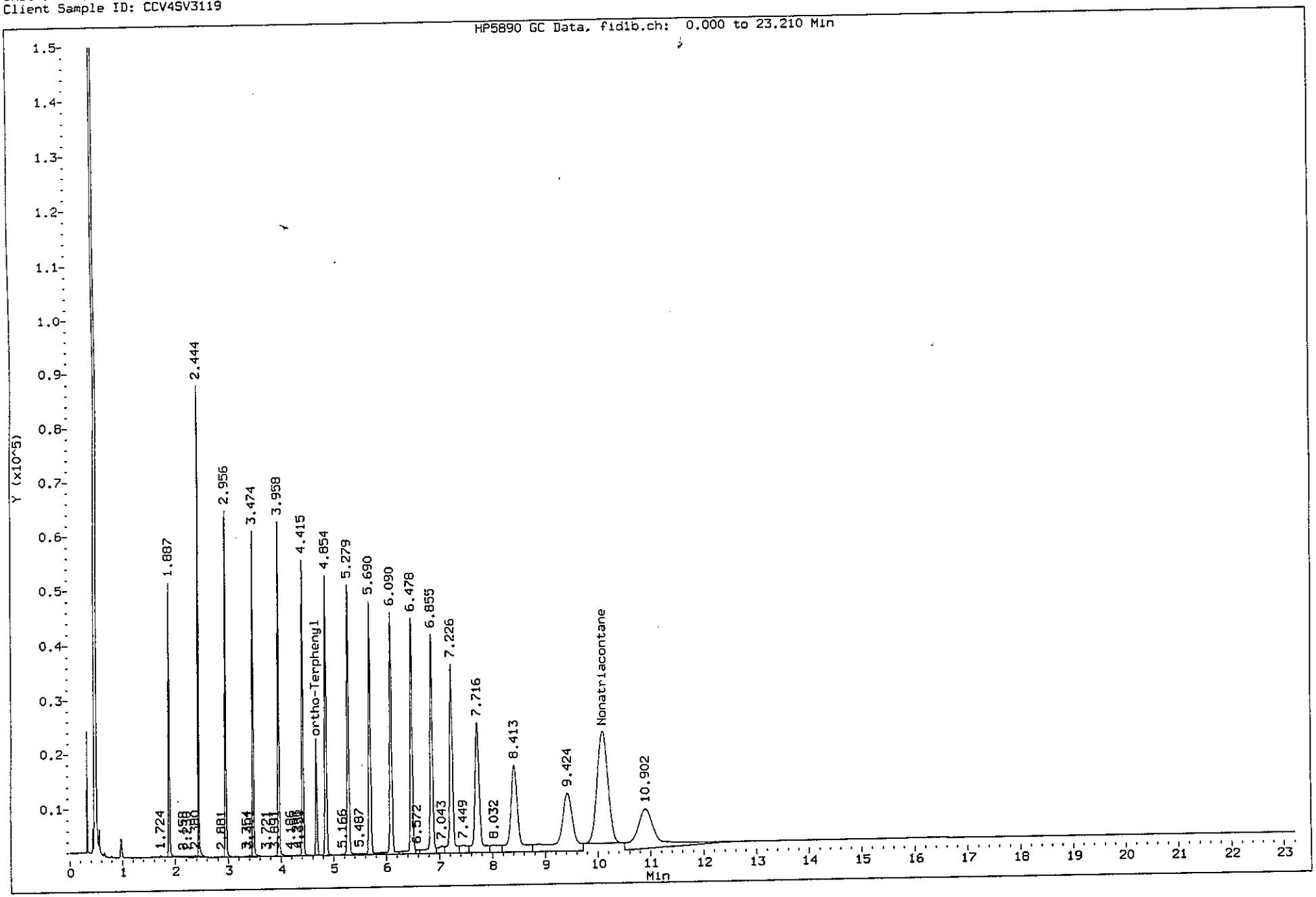
Name	Value	Description
DF	1.000	Dilution Factor
Ws	25.000	Weight of Sample
M	0.000	% Moisture
Vf	2.000	Final extract volume

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/ml)	AMOUNTS ON-COL (mg/ml)
S	1 TPH (C8-C40)	1.700-12.278			10538324	2.55000	2.8(M)
$	2 ortho-Terphenyl	4.673	4.713	-0.040	192185	0.05000	0.054(M)
$	3 Nonatriacontane	10.093	10.276	-0.183	1464484	0.30000	0.32(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid02.i\F2102601.b\CCV4.D
Injection Date: 27-OCT-2001 05:21
Instrument: sfid02.i
Client Sample ID: CCV4SV3119



PEL Laboratories

Data file : \\TYOUNG\ee\chem\sfid02.i\F2102601.b\CCV5.D
Lab Smp Id: CCV5SV3119 Client Smp ID: CCV5SV3119
Inj Date : 27-OCT-2001 19:29
Operator : sga Inst ID: sfid02.i
Smp Info : CCV5SV3119
Misc Info :
Comment :
Method : \\Tyoung\ee\chem\sfid02.i\F2102601.b\FLPROS.m
Meth Date : 02-Nov-2001 15:43 sallen Quant Type: ESTD
Cal Date : 25-OCT-2001 18:26 Cal File: CAL1.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.04
Processing Host: TYOUNG

Concentration Formula: Amt * DF * ((1/((Ws*((100-M)/100))/1000))*Vf)

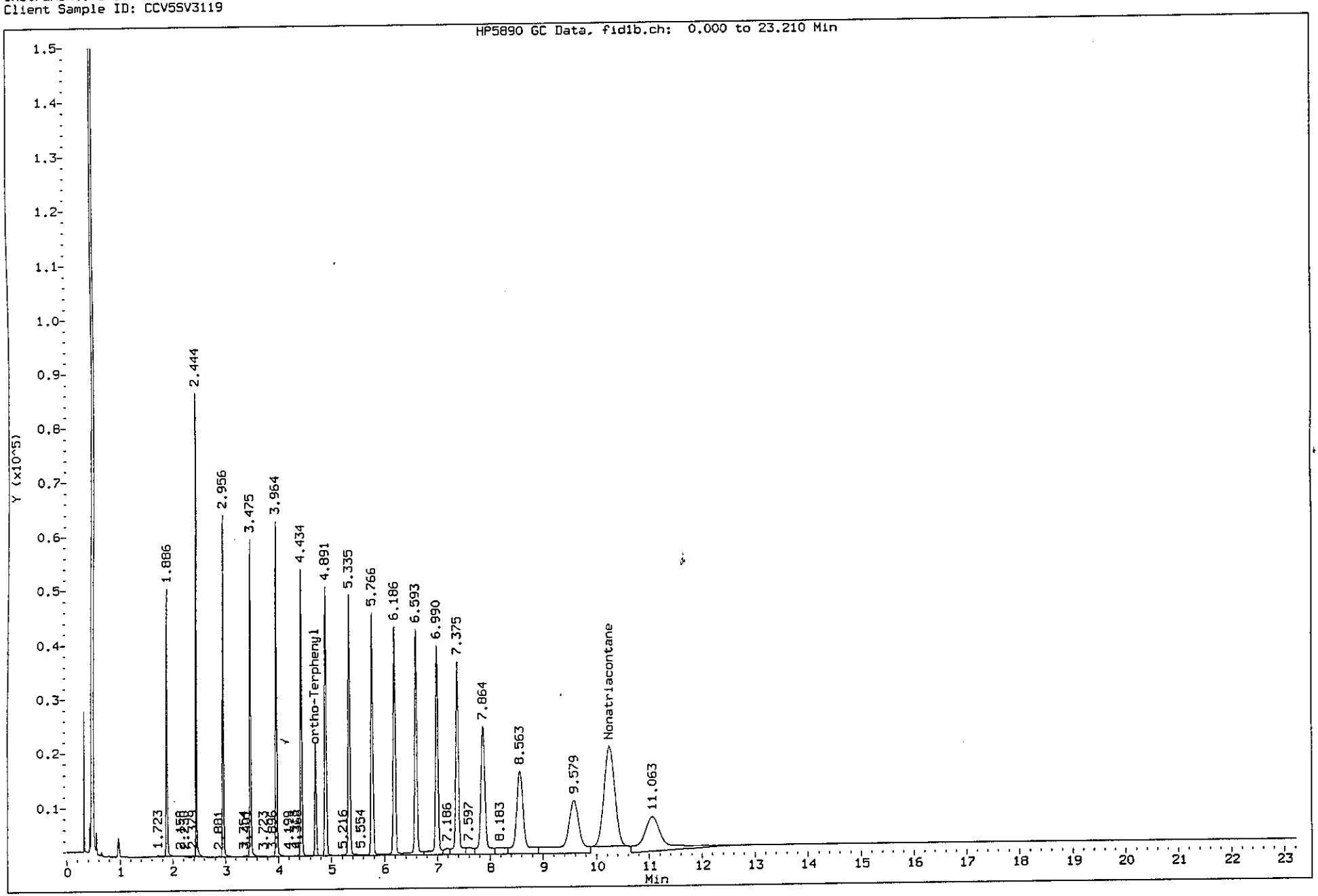
Name	Value	Description
DF	1.000	Dilution Factor
Ws	25.000	Weight of Sample
M	0.000	% Moisture
Vf	2.000	Final extract volume

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/ml)	(mg/ml)
S 1 TPH (C8-C40)	1.700-12.278			10249255	2.55000	2.7(M)
$ 2 ortho-Terphenyl	4.700	4.713	-0.013	192210	0.05000	0.054(M)
$ 3 Nonatriacontane	10.240	10.276	-0.036	1294461	0.30000	0.29(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid02.i\F2102601.b\CCV5.D
Injection Date: 27-OCT-2001 19:29
Instrument: sfid02.i
Client Sample ID: CCV5SV3119



F2102901.S
FLPRO Soil

10-2

Vial	Sample Name
98	DCM1
99	CCV1SV3119
1	211009403
2	211009415
3	211009419
99	CCV2SV3119

10-29-01

PEL Laboratories

Data file : \\TYOUNG\ee\chem\sfid02.i\F210290W.b\CCV1.D
Lab Smp Id: CCV1SV3119 Client Smp ID: CCV1SV3119
Inj Date : 29-OCT-2001 16:56
Operator : sga Inst ID: sfid02.i
Smp Info : CCV1SV3119
Misc Info : Florida PRO
Comment :
Method : \\TYOUNG\ee\chem\sfid02.i\F210290W.b\FLPROW.m
Meth Date : 02-Nov-2001 15:47 lkeene Quant Type: ESTD
Cal Date : 25-OCT-2001 14:58 Cal File: CAL7.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.04
Processing Host: SVHPLC3

Concentration Formula: Amt * DF * (1/(Vi/1000)*Vf)

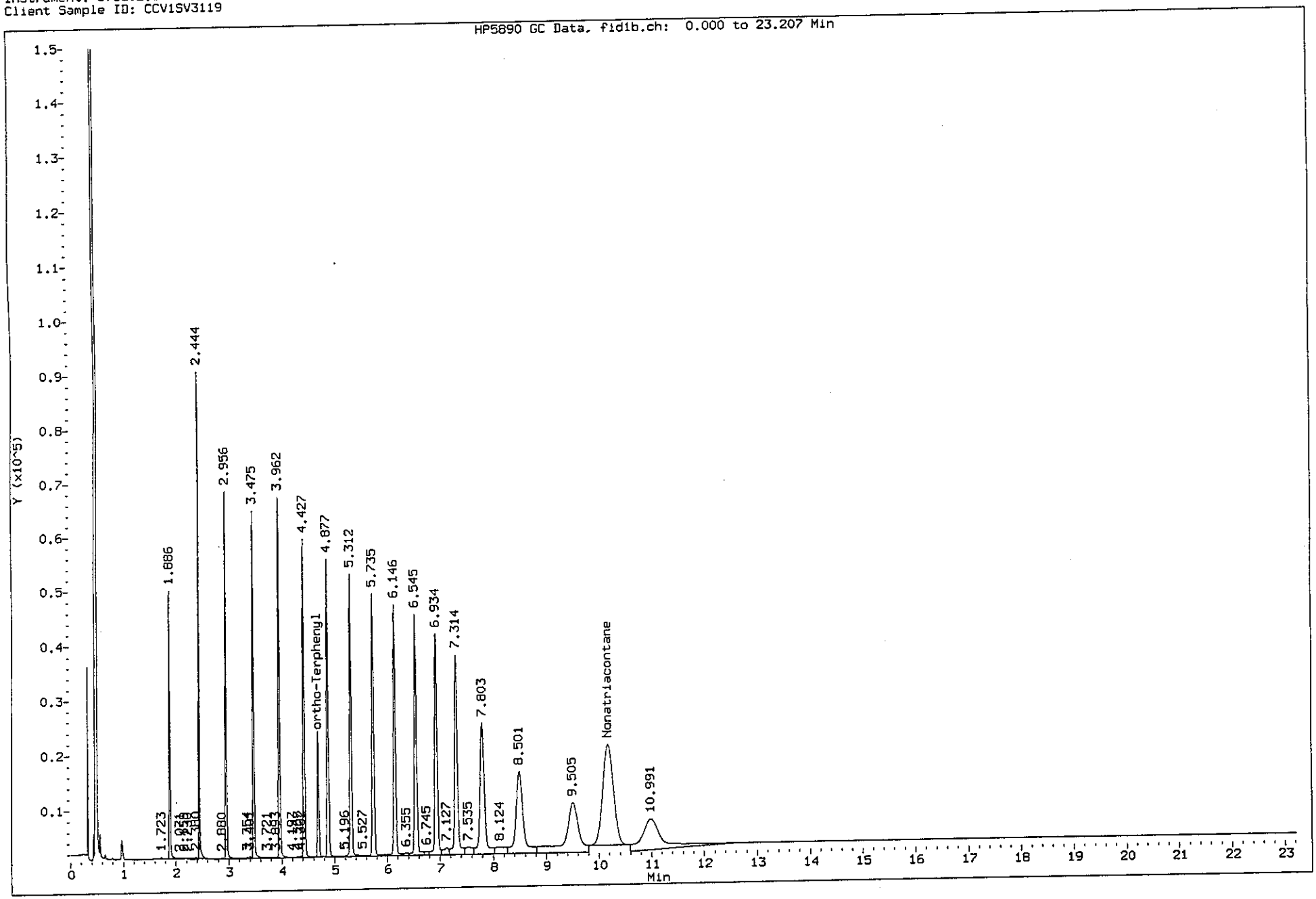
Name	Value	Description
DF	1.000	Dilution Factor
Vi	1000.000	Sample Initial Volume
Vf	2.000	Final Extract Volume

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/ml)	AMOUNTS ON-COL (mg/ml)
S 1 TPH (C8-C40)	1.700-12.278			10486303	2.55000	2.8(M)
$ 2 ortho-Terphenyl	4.690	4.716	-0.026	209885	0.05000	0.059(M)
$ 3 Nonatriacontane	10.176	10.276	-0.100	1303782	0.30000	0.29(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid02.i\F210290W.b\CCV1.D
Injection Date: 29-OCT-2001 16:56
Instrument: sfid02.i
Client Sample ID: CCV1SV3119



PEL Laboratories

Data file : \\TYOUNG\ee\chem\sfid02.i\F210290W.b\94-20.D
Lab Smp Id: 211009420 Client Smp ID: 062EB1W101801
Inj Date : 29-OCT-2001 18:04
Operator : sga Inst ID: sfid02.i
Smp Info : 211009420
Misc Info : Florida PRO
Comment :
Method : \\Tyoung\ee\chem\sfid02.i\F210290W.b\FLPROW.m
Meth Date : 02-Nov-2001 15:47 lkeene Quant Type: ESTD
Cal Date : 25-OCT-2001 14:58 Cal File: CAL7.D
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: rl.sub
Target Version: 4.04
Processing Host: TYOUNG

Concentration Formula: Amt * DF * (1/(Vi/1000)*Vf)

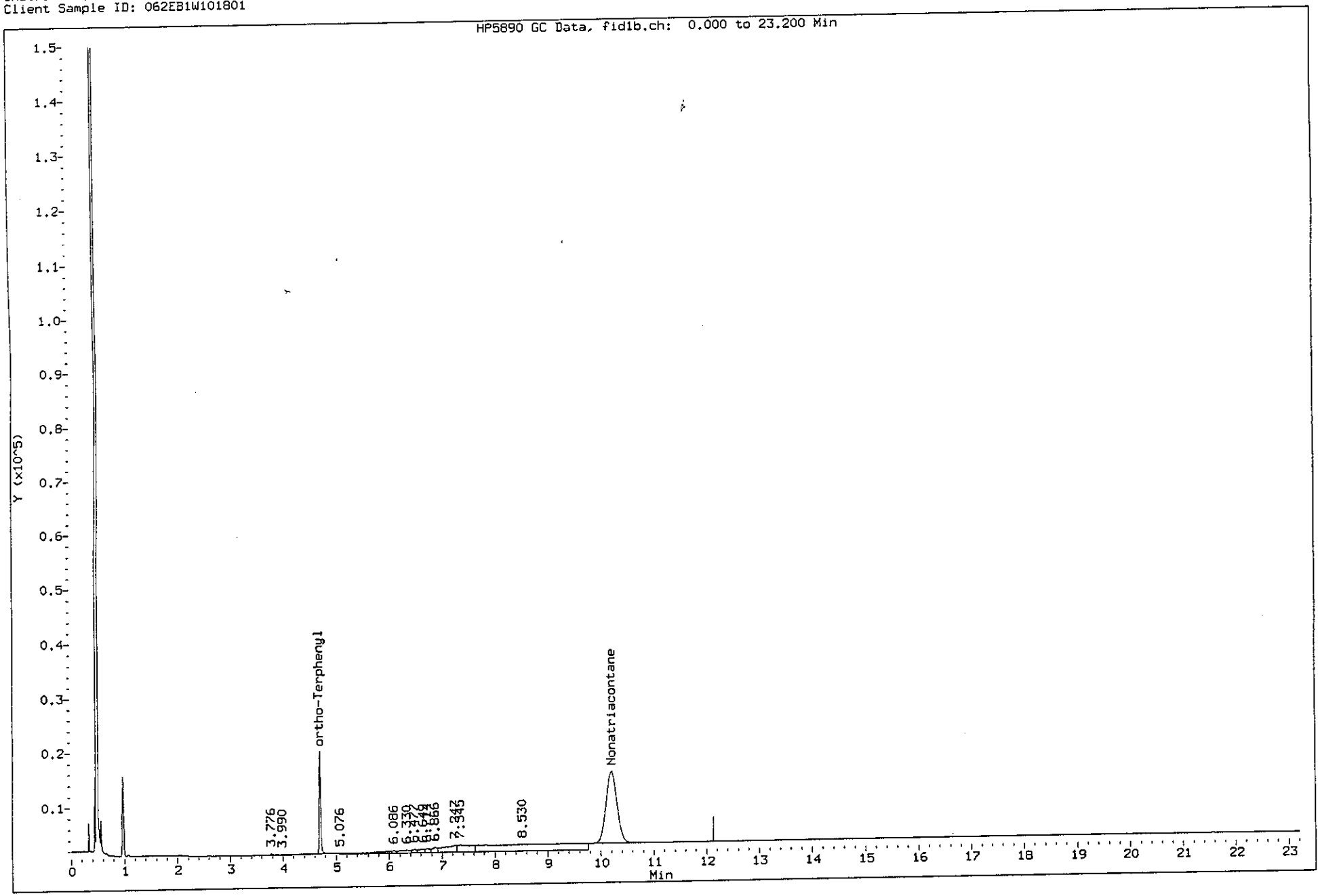
Name	Value	Description
DF	1.000	Dilution Factor
Vi	925.000	Sample Initial Volume
Vf	2.000	Final Extract Volume

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/ml)	CONCENTRATIONS FINAL (mg/L)
$ 2 ortho-Terphenyl	4.703	4.716	-0.013	183958	0.05158	0.11(M)
$ 3 Nonatriacontane	10.213	10.276	-0.063	942735	0.20838	0.45(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid02.i\F210290W.b\94-20.D
Injection Date: 29-OCT-2001 18:04
Instrument: sfid02.i
Client Sample ID: 062EB1W101801



PEL Laboratories

Data file : \\TYOUNG\ee\chem\sfid02.i\F210290W.b\1025BLKW.D
Lab Smp Id: 51391 Client Smp ID: 1025BLKW
Inj Date : 29-OCT-2001 17:30
Operator : sga Inst ID: sfid02.i
Smp Info : 51391
Misc Info : Florida PRO
Comment :
Method : \\Tyoung\ee\chem\sfid02.i\F210290W.b\FLPROW.m
Meth Date : 02-Nov-2001 15:47 lkeene Quant Type: ESTD
Cal Date : 25-OCT-2001 14:58 Cal File: CAL7.D
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: rl.sub
Target Version: 4.04
Processing Host: TYOUNG

Concentration Formula: Amt * DF * (1/(Vi/1000)*Vf)

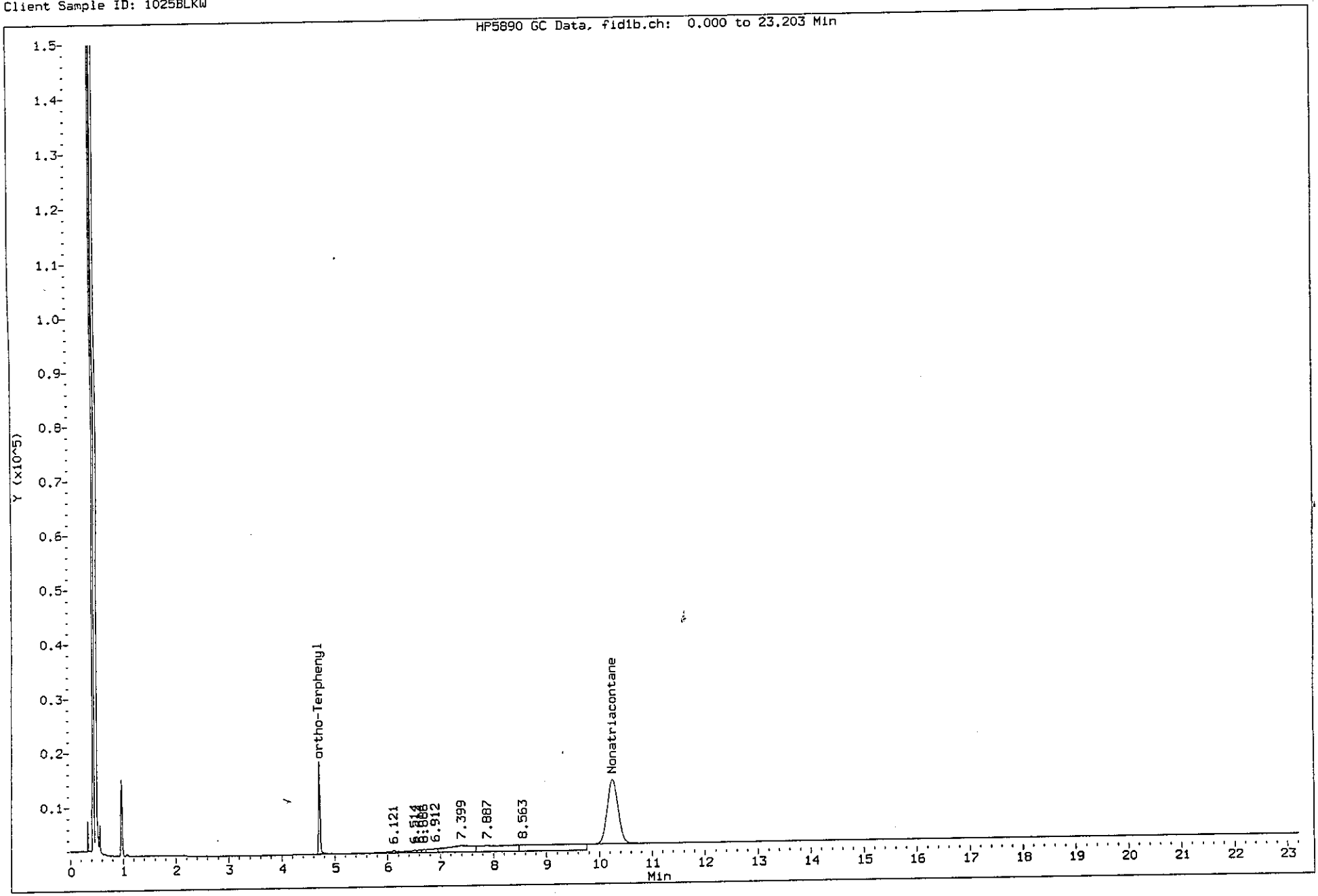
Name	Value	Description
DF	1.000	Dilution Factor
Vi	1000.000	Sample Initial Volume
Vf	2.000	Final Extract Volume

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/ml)	CONCENTRATIONS FINAL (mg/L)
$ 2 ortho-Terphenyl	4.710	4.716	-0.006	168078	0.04712	0.094(M)
$ 3 Nonatriacontane	10.260	10.276	-0.016	839590	0.18559	0.37(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid02.i\F210290W.b\1025BLKW.D
Injection Date: 29-OCT-2001 17:30
Instrument: sfid02.i
Client Sample ID: 1025BLKW



PEL Laboratories

Data file : \\TYOUNG\ee\chem\sfid02.i\F210290W.b\CCV2.D
Lab Smp Id: CCV2SV3119 Client Smp ID: CCV2SV3119
Inj Date : 29-OCT-2001 23:07
Operator : sga Inst ID: sfid02.i
Smp Info : CCV2SV3119
Misc Info : Florida PRO
Comment :
Method : \\Tyoung\ee\chem\sfid02.i\F210290W.b\FLPROW.m
Meth Date : 02-Nov-2001 15:47 lkeene Quant Type: ESTD
Cal Date : 25-OCT-2001 14:58 Cal File: CAL7.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.04
Processing Host: SVHPLC3

Concentration Formula: Amt * DF * (1/(Vi/1000)*Vf)

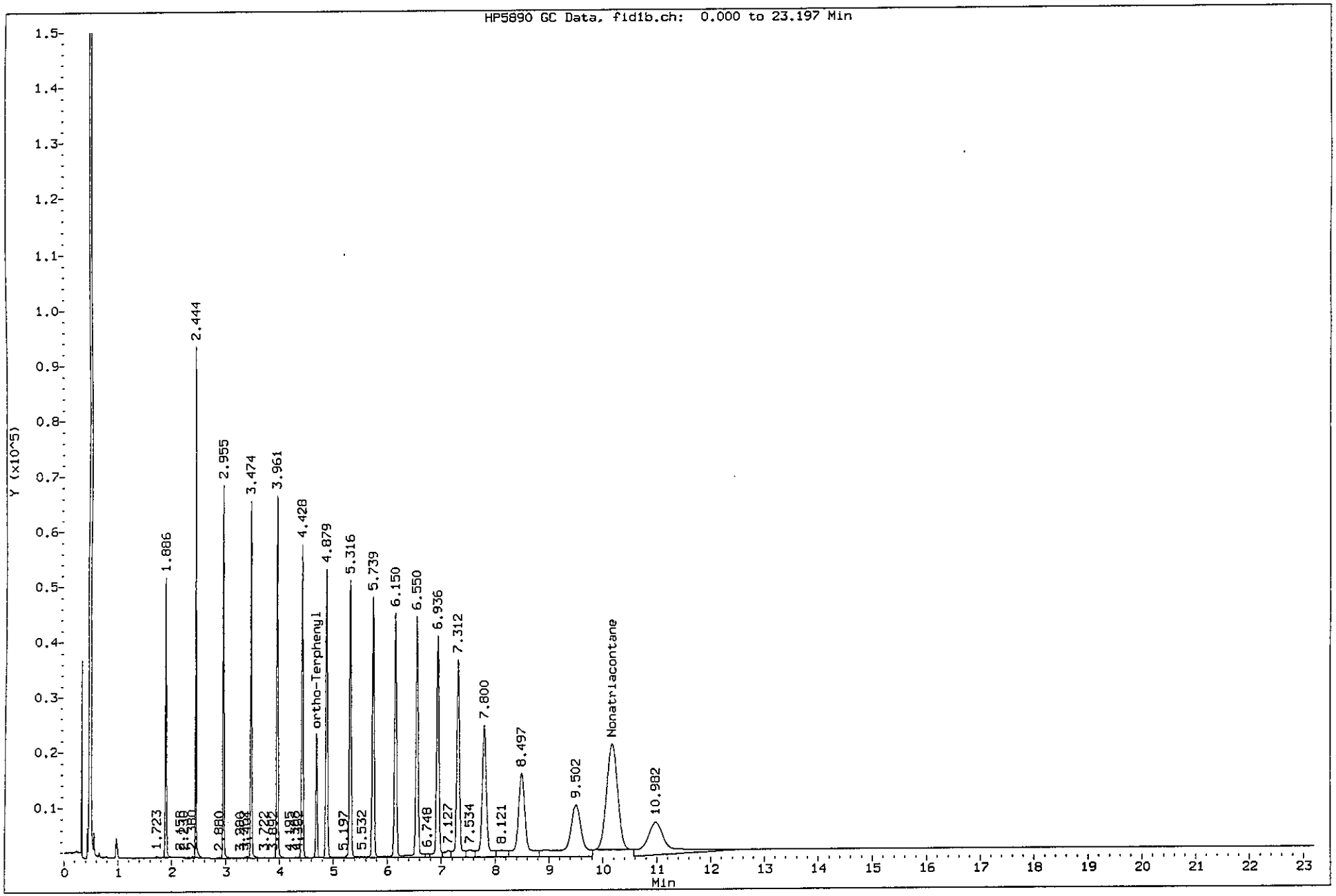
Name	Value	Description
DF	1.000	Dilution Factor
Vi	1000.000	Sample Initial Volume
Vf	2.000	Final Extract Volume

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/ml)	AMOUNTS ON-COL (mg/ml)
S	1 TPH (C8-C40)	1.700-12.278			10395311	2.55000	2.8(M)
$	2 ortho-Terphenyl	4.693	4.716	-0.023	205042	0.05000	0.057(M)
$	3 Nonatriacontane	10.173	10.276	-0.103	1349383	0.30000	0.30(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid02.i\F210290W.b\CCV2.D
Injection Date: 29-OCT-2001 23:07
Instrument: sfid02.i
Client Sample ID: CCV2SV3119



1010000 1000101 1100110
PEL Laboratories, Inc.

Customer Name:	CH2MHILL
Date & Time Received:	10-19-01; 10:00 AM
Date Reported:	11-6-01
PEL Submission Number:	2110094
Project:	NAS Cecil Field (South Fuel Farm)

Samples: The submission consisted of 22 samples with sample identification shown in the attached data tables.

Tests: The sample was analyzed for EPA method: 8021, 8310, and FL PRO

Results: See the attached data tables for results.

Distribution of Reports:

1-CH2MHILL
Attn: Tatiana Romanova
Phone: (770) 604-9182

2-CH2M HILL
Attn: Jennifer Zimmerman
Phone: (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 not necessarily indicative of the qualitities of apparently identical or similar materials.

4420 Pendola Point Road • Tampa, Florida 33619
(813) 247-2805 • FAX: (813) 248-1537

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Level 4

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Cross-Reference sheet for SDG 2110094-Cecil Field

	SDG	FieldID	SampleType	LabSampleID	SampleDescription
Cecil Field	2110094	062B101S101801	N	211009407	062-B101-S-1018-01
Cecil Field	2110094	062B101S101801DL	DL	211009407DL1	062-B101-S-1018-01
Cecil Field	2110094	062B101S101801DLMS	MS	211009408DL1	062-B101-S-1018-01
Cecil Field	2110094	062B101S101801DLSD	SD	211009409DL1	062-B101-S-1018-01
Cecil Field	2110094	062B101S101801MS	MS	211009408	062-B101-S-1018-01
Cecil Field	2110094	062B101S101801SD	SD	211009409	062-B101-S-1018-01
Cecil Field	2110094	062B104S101801	N	211009410	062-B104-S-1018-01
Cecil Field	2110094	062B106S101801	N	211009411	062-B106-S-1018-01
Cecil Field	2110094	062B110S101801	N	211009412	062-B110-S-1018-01
Cecil Field	2110094	062B137S101801	N	211009413	062-B137-S-1018-01
Cecil Field	2110094	062B146S101801	N	211009414	062-B146-S-1018-01
Cecil Field	2110094	062B158S101801	N	211009415	062-B158-S-1018-01
Cecil Field	2110094	062B167S101801	N	211009416	062-B167-S-1018-01
Cecil Field	2110094	062B167S101801DL1	DL	211009416DL1	062-B167-S-1018-01
Cecil Field	2110094	062B189S101801	N	211009417	062-B189-S-1018-01
Cecil Field	2110094	062B31S101801	N	211009402	062-B31-S-1018-01
Cecil Field	2110094	062B41S101801	N	211009403	062-B41-S-1018-01
Cecil Field	2110094	062B70S101801	N	211009404	062-B70-S-1018-01
Cecil Field	2110094	062B7S101801	N	211009401	062-B7-S-1018-01
Cecil Field	2110094	062B96S101801	N	211009405	062-B96-S-1018-01
Cecil Field	2110094	062B99S101801	N	211009406	062-B99-S-1018-01
Cecil Field	2110094	062DUP1S101801	N	211009418	062-DUP1-S-1018-01
Cecil Field	2110094	062DUP2S101801	N	211009419	062-DUP2-S-1018-01
Cecil Field	2110094	062EB1W101801	N	211009420	062-EB1-W-1018-01
Cecil Field	2110094	062TB1W101801	N	211009421	062-TB1-W-1018-01
Cecil Field	2110094	062TB2W101801	N	211009422	062-TB2-W-1018-01

	SDG	FieldID	SampleType	LabSampleID	SampleDescription
Cecil Field	2110094	1024BLK61	MB	1024BLK61	1024BLK61
Cecil Field	2110094	1024BLK61MS	BS	1024BLK61MS	1024BLK61
Cecil Field	2110094	1024BLK61SD	BD	1024BLK61SD	1024BLK61
Cecil Field	2110094	1024LCS62	BS	1024LCS62	1024LCS62
Cecil Field	2110094	1025BLK51	MB	1025BLK51	1025BLK51
Cecil Field	2110094	1025BLK51MS	BS	1025BLK51MS	1025BLK51
Cecil Field	2110094	1025BLK51SD	BD	1025BLK51SD	1025BLK51
Cecil Field	2110094	1025BLK61	MB	1025BLK61	1025BLK61
Cecil Field	2110094	1025BLKS	MB	51443	1025BLKS
Cecil Field	2110094	1025BLKSMS	BS	51445	1025BLKS
Cecil Field	2110094	1025BLKSSD	BD	51446	1025BLKS
Cecil Field	2110094	1025BLKW	MB	51391	1025BLKW
Cecil Field	2110094	1025BLKWMS	BS	51393	1025BLKW
Cecil Field	2110094	1025BLKWSD	BD	51394	1025BLKW
Cecil Field	2110094	1025LCS51	BS	1025LCS51	1025LCS51
Cecil Field	2110094	1025LCS61	BS	1025LCS61	1025LCS61
Cecil Field	2110094	1025LCSA	BS	51392	1025LCSA
Cecil Field	2110094	1025LCSS	BS	51444	1025LCSS
Cecil Field	2110094	1025SBLK	MB	51553	1025SBLK
Cecil Field	2110094	1025SBLKMS	BS	51555	1025SBLK
Cecil Field	2110094	1025SBLKSD	BD	51556	1025SBLK
Cecil Field	2110094	1025SLCS	BS	51554	1025SLCS
Cecil Field	2110094	1029BLK61	MB	1029BLK61	1029BLK61
Cecil Field	2110094	1029BLK61MS	BS	1029BLK61MS	1029BLK61
Cecil Field	2110094	1029BLK61SD	BD	1029BLK61SD	1029BLK61
Cecil Field	2110094	1029LCS61	BS	1029LCS61	1029LCS61
Cecil Field	2110094	1029MBLK62	MB	1029MBLK62	1029MBLK62
Cecil Field	2110094	1029MBLK62MS	BS	1029MBLK62MS	1029MBLK62

	SDG	FieldID	SampleType	LabSampleID	SampleDescription
Cecil Field	2110094	1029MBLK62SD	BD	1029MBLK62SD	1029MBLK62
Cecil Field	2110094	B101S101801	N	211009407	062-B101-S-1018-01
Cecil Field	2110094	B101S101801MS	MS	211009408	062-B101-S-1018-01
Cecil Field	2110094	B101S101801SD	SD	211009409	062-B101-S-1018-01
Cecil Field	2110094	B167S101801DL1	DL	211009416DL1	062-B167-S-1018-01
Cecil Field	2110094	BLKA1	MB	51236	BLKA1
Cecil Field	2110094	BLKA1MS	BS	51238	BLKA1
Cecil Field	2110094	BLKA1SD	BD	51239	BLKA1
Cecil Field	2110094	LCSA1	BS	51237	LCSA1

Organics

Organic Data Qualifiers

U Indicates the compound was analyzed for but not detected. The number adjacent to the "U" qualifier indicates the reporting limit for that compound. The reporting limit can vary from sample to sample depending on dilution factors or the percent moisture adjustment when incicated.

J Indicates estimated value. It is used when the data indicates the presence of a compound above the method MDL yet lower than the reporting limit.

B Indicates the analyte was found in the associated bland 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 compound. The sample should be analyzed at an appropriate dilution. "E" qualified values are estimations and the diluted result will 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" flag indicates the presence of this compound 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. The lower of the two values is reported on Form 1 with a "P" code.

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

A This qualifier indicates that a TIC is suspected aldol-condensation product.

M This qualifier indicates that the compound is reported as a summation of analyte isomers.

X Data flagged as rejected by analyst utilizing analytical judgement.

061101 1516

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 orfginal 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

CASE NARRATIVE
GC VOLATILE ORGANICS

PEL Lab Reference No./SDG: 2110094

Client: CH2MHILL

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 data 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 EPA 5030/SW846 for 8021 volatiles analysis.
All aspects of sample preparation proceeded without exception.

Soil samples were prepared by EPA 5035/SW846 for 8021 volatiles analysis.
All aspects of sample preparation proceeded without exception.

V. ANALYSIS

A. Calibration:

All acceptance criteria were met.

Initial calibration criteria are stated in SW-846 EPA method 8021. All analytes have a maximum percent RSD of 20. As per SW-846 EPA method 8000; Section 7.5.1.2 and 7.5.1.2.1, if one or more of the analytes exceed the maximum percent RSD the average percent RSD may be used provided the average is less than or equal to 20. In those instances, the average will be calculated and cited on the calibration forms.

Continuing Calibration criteria is stated in SW-846 EPA method 8021. All analytes have a maximum percent D of 15 with the exception of bromomethane, chloroethane, chloromethane, dichlorodifluoromethane, trichlorofluoromethane, and vinyl chloride which may have a percent D of 20. As per SW-846 EPA method 8000; Section 7.5.1.2 and 7.5.1.2.1, If one or more of the analytes exceed the maximum percent D the average percent D may be used provided the average is less than or equal to 20. In those instances, the average will be calculated and cited on the calibration forms.

B. Blanks:

Blank 1024BLK61 analyzed with the soil samples was non-detect for all target analytes.

Blank 1025BLK51 analyzed with the water samples was non-detect for all target analytes.

PEL Lab Reference No./SDG: 2110094

Blanks Continued:

Blank 1025BLK61 analyzed with the soil samples was non-detect for all target analytes.

Blank 1029BLK61 analyzed with the soil samples was non-detect for all target analytes.

Blank 1029MBLK62 analyzed with the methanol aliquots was non-detect for all target analytes.

C. Surrogates:

Samples 062B7S101801, 062B31S101801, 062B41S101801, 062B70S101801, B101S101801, B101S101801MS, B101S101801SD, 062B104S101801, 062B106S101801, 062B110S101801, 062B137S101801, 062B146S101801, 062B167S101801, 062DUP1S101801, and 062DUP2S101801 did not meet the acceptance criteria for 4-Bromofluorobenzene. These samples were reanalyzed with similar results. Only one analysis is included in the hard copy and Edata. All other surrogate criteria were met.

D. Spikes:

Laboratory Control Samples (LCS)

Four LCSs were analyzed with the samples where two out of 24 analytes did not meet the acceptance criteria for percent recovery.

Matrix Spike/Matrix Spike Duplicate Samples (MS/SD)

The client specified sample, B101S101801, was analyzed as an MS/SD where ten out of 12 analytes did not meet the acceptance criteria for percent recovery. Two out of six analytes did not meet the acceptance criteria for Relative Percent Difference. This sample was reanalyzed as an MS/SD with similar results. Only one set is included in the hard copy and Edata. These results are most likely due to matrix interference. Two sets of reagent sand spikes were analyzed as an MS/SD where two out of 24 analytes did not meet the acceptance criteria for percent recovery. All criteria were met for Relative Percent Difference. Reagent water spikes were analyzed as an MS/SD where all criteria were met for percent recovery and Relative Percent Difference. Reagent methanol spikes were analyzed as an MS/SD where all criteria were met for percent recovery and Relative Percent Difference.

E. Internal standards:

All internal standard criteria were met.

F. Samples:

Sample analysis proceeded normally. PEL reporting limits were used. All analytes were quantitated off of the PID detector. Sample 062B167S101801 required a high level methanol extraction and analysis due to high concentrations of Ethylbenzene and Xylenes. The RLs were not raised for this sample.

CASE NARRATIVE
GC VOLATILE ORGANICS

PEL Lab Reference No./SDG: 2110094

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: Lisa Pelo **DATE:** 11/2/01

VOLATILE ORGANIC CROSS REFERENCE TABLE

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

Lab Code : PEL Case No. SAS No: SDG No.: 2110094

Method: 8021

EPA Sample No	Lab Sample ID
062B7S101801	211009401
062B31S101801	211009402
062B41S101801	211009403
062B70S101801	211009404
062B96S101801	211009405
062B99S101801	211009406
B101S101801	211009407
062B104S101801	211009410
062B106S101801	211009411
062B110S101801	211009412
062B137S101801	211009413
062B146S101801	211009414
062B158S101801	211009415
062B167S101801	211009416
B167S101801DL1	211009416DL1
062B189S101801	211009417
062DUP1S101801	211009418
062DUP2S101801	211009419
062EB1W101801	211009420
062TB1W101801	211009421
062TB2W101801	211009422

061101 1316

Sample Data

1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062B7S101801

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

Lab Code: PEL Case No. SAS No: SDG No.: 2110094

Matrix: SOIL Lab Sample ID 211009401 Lab File ID 94-1.D

Sample wt/vol: 5.6 Units: G Date Received: 10/19/01

Concentrated Extract Volume: Date Extracted:

Level:(low/med) LOW Date Analyzed: 10/24/01 Time: 2058

PercentSolids: 84 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID B-7 @ 2ft Method: 8021

GPC Cleanup : (Y/N) pH:

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

CONCENTRATION UNITS: ug/Kg

CAS NO.	ANALYTE	RESULT	Q
71-43-2	Benzene	1	U
1634-04-4	MTBE	1	U
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
511-39-00	M,P-Xylene	2.1	U
95-47-6	O-Xylene	1	U

1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062B31S101801

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

Lab Code: PEL Case No. SAS No: SDG No.: 2110094

Matrix: SOIL Lab Sample ID 211009402 Lab File ID 94-2.D

Sample wt/vol: 5.41 Units: G Date Received: 10/19/01

Concentrated Extract Volume: Date Extracted:

Level:(low/med) LOW Date Analyzed: 10/24/01 Time: 2151

PercentSolids: 83 decanted: Dilution Factor: 1

Extraction: PURGETRAP Station ID B-31 @ 3 ft Method: 8021

GPC Cleanup: (Y/N) pH:

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

CONCENTRATION UNITS: ug/Kg

CAS NO.	ANALYTE	RESULT	Q
71-43-2	Benzene	1.1	U
1634-04-4	MTBE	1.1	U
108-88-3	Toluene	1.1	U
100-41-4	Ethylbenzene	1.1	U
511-39-00	M,P-Xylene	2.2	U
95-47-6	O-Xylene	1.1	U

1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062B41S101801

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

Lab Code : PEL Case No. SAS No: SDG No.: 2110094

Matrix: SOIL Lab Sample ID 211009403 Lab File ID 94-3.D

Sample wt/vol: 5.36 Units: G Date Received: 10/19/01

Concentrated Extract Volume: Date Extracted:

Level:(low/med) LOW Date Analyzed: 10/24/01 Time: 2245

PercentSolids: 87 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID B-41 @ 4ft Method: 8021

GPC Cleanup : (Y/N) pH:

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

CONCENTRATION UNITS: ug/Kg

CAS NO.	ANALYTE	RESULT	Q
71-43-2	Benzene	1.1	U
1634-04-4	MTBE	1.1	U
108-88-3	Toluene	1.1	U
100-41-4	Ethylbenzene	1.1	U
511-39-00	M,P-Xylene	2.2	U
95-47-6	O-Xylene	1.1	U

1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062B70S101801

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

Lab Code: PEL Case No. SAS No: SDG No.: 2110094

Matrix: SOIL Lab Sample ID 211009404 Lab File ID 94-4.D

Sample wt/vol: 4.77 Units: G Date Received: 10/19/01

Concentrated Extract Volume: Date Extracted:

Level:(low/med) LOW Date Analyzed: 10/24/01 Time: 2338

PercentSolids: 89 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID B-70 @ 4ft Method: 8021

GPC Cleanup : (Y/N) pH:

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

CONCENTRATION UNITS: ug/Kg

CAS NO.	ANALYTE	RESULT	Q
71-43-2	Benzene	1.2	U
1634-04-4	MTBE	1.2	U
108-88-3	Toluene	1.2	U
100-41-4	Ethylbenzene	1.2	U
511-39-00	M,P-Xylene	2.4	U
95-47-6	O-Xylene	1.2	U

1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062B96S101801

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

Lab Code: PEL Case No. SAS No: SDG No.: 2110094

Matrix: SOIL Lab Sample ID 211009405 Lab File ID 94-5R.D

Sample wt/vol: 4.09 Units: G Date Received: 10/19/01

Concentrated Extract Volume: Date Extracted:

Level:(low/med) LOW Date Analyzed: 10/29/01 Time: 1612

PercentSolids: 89 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID B-96 @ 4ft Method: 8021

GPC Cleanup : (Y/N) pH:

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

CONCENTRATION UNITS: ug/Kg

CAS NO.	ANALYTE	RESULT	Q
71-43-2	Benzene	24	
1634-04-4	MTBE	1.4	U
108-88-3	Toluene	1.7	
100-41-4	Ethylbenzene	17	
511-39-00	M,P-Xylene	6.7	
95-47-6	O-Xylene	7.4	

1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062B99S101801

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

Lab Code: PEL Case No. SAS No: SDG No.: 2110094

Matrix: SOIL Lab Sample ID 211009406 Lab File ID 94-6R.D

Sample wt/vol: 5.02 Units: G Date Received: 10/19/01

Concentrated Extract Volume: Date Extracted:

Level:(low/med) LOW Date Analyzed: 10/29/01 Time: 1706

PercentSolids: 85 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID B-99 @ 4ft Method: 8021

GPC Cleanup : (Y/N) pH:

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

CONCENTRATION UNITS: ug/Kg

CAS NO.	ANALYTE	RESULT	Q
71-43-2	Benzene	1.2	U
1634-04-4	MTBE	1.2	U
108-88-3	Toluene	1.2	U
100-41-4	Ethylbenzene	1.2	U
511-39-00	M,P-Xylene	2.3	U
95-47-6	O-Xylene	1.2	U

1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: B101S101801

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

Lab Code: PEL Case No. SAS No: SDG No.: 2110094

Matrix: SOIL Lab Sample ID: 211009407 Lab File ID: 94-7.D

Sample wt/vol: 5.46 Units: G Date Received: 10/19/01

Concentrated Extract Volume: Date Extracted:

Level:(low/med) LOW Date Analyzed: 10/25/01 Time: 1828

PercentSolids: 89 decanted: Dilution Factor: 1

Extraction: PURGETRAP Station ID B-101 @ 4ft Method: 8021

GPC Cleanup: (Y/N) pH:

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

CONCENTRATION UNITS: ug/Kg

CAS NO.	ANALYTE	RESULT	Q
71-43-2	Benzene	0.88	J
1634-04-4	MTBE	1	U
108-88-3	Toluene	1.2	
100-41-4	Ethylbenzene	1	U
511-39-00	M,P-Xylene	2	U
95-47-6	O-Xylene	1	U

1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062B104S101801

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

Lab Code: PEL Case No. SAS No: SDG No.: 2110094

Matrix: SOIL Lab Sample ID 211009410 Lab File ID 94-10.D

Sample wt/vol: 4.82 Units: G Date Received: 10/19/01

Concentrated Extract Volume: Date Extracted:

Level:(low/med) LOW Date Analyzed: 10/25/01 Time: 1922

PercentSolids: 89 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID B-104 @ 4ft Method: 8021

GPC Cleanup : (Y/N) pH:

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

CONCENTRATION UNITS: ug/Kg

CAS NO.	ANALYTE	RESULT	Q
71-43-2	Benzene	1.2	U
1634-04-4	MTBE	1.2	U
108-88-3	Toluene	1.2	U
100-41-4	Ethylbenzene	1.2	U
511-39-00	M,P-Xylene	2.3	U
95-47-6	O-Xylene	1.2	U

1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062B106S101801

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

Lab Code: PEL Case No. SAS No: SDG No.: 2110094

Matrix: SOIL Lab Sample ID 211009411 Lab File ID 94-11.D

Sample wt/vol: 5.06 Units: G Date Received: 10/19/01

Concentrated Extract Volume: Date Extracted:

Level:(low/med) LOW Date Analyzed: 10/25/01 Time: 2015

PercentSolids: 91 decanted: Dilution Factor: 1

Extraction: PURGETRAP Station ID B-106 @ 4ft Method: 8021

GPC Cleanup: (Y/N) pH:

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

CONCENTRATION UNITS: ug/Kg

CAS NO.	ANALYTE	RESULT	Q
71-43-2	Benzene	1.1	U
1634-04-4	MTBE	1.1	U
108-88-3	Toluene	1.1	U
100-41-4	Ethylbenzene	1.1	U
511-39-00	M,P-Xylene	2.2	U
95-47-6	O-Xylene	1.1	U

1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062B110S101801

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

Lab Code: PEL Case No. SAS No: SDG No.: 2110094

Matrix: SOIL Lab Sample ID 211009412 Lab File ID 94-12.D

Sample wt/vol: 5.73 Units: G Date Received: 10/19/01

Concentrated Extract Volume: Date Extracted:

Level:(low/med) LOW Date Analyzed: 10/25/01 Time: 2256

PercentSolids: 87 decanted: Dilution Factor: 1

Extraction: PURGETRAP Station ID B-110 @ 4ft Method: 8021

GPC Cleanup: (Y/N) pH:

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

CONCENTRATION UNITS: ug/Kg

CAS NO.	ANALYTE	RESULT	Q
71-43-2	Benzene	1	U
1634-04-4	MTBE	1	U
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
511-39-00	M,P-Xylene	2	U
95-47-6	O-Xylene	1	U

1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062B137S101801

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

Lab Code: PEL Case No. SAS No: SDG No.: 2110094

Matrix: SOIL Lab Sample ID: 211009413 Lab File ID: 94-13.D

Sample wt/vol: 4.55 Units: G Date Received: 10/19/01

Concentrated Extract Volume: Date Extracted:

Level:(low/med) LOW Date Analyzed: 10/25/01 Time: 2349

PercentSolids: 89 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID B-137 @ 2ft Method: 8021

GPC Cleanup : (Y/N) pH:

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

CONCENTRATION UNITS: ug/Kg

CAS NO.	ANALYTE	RESULT	Q
71-43-2	Benzene	1.2	U
1634-04-4	MTBE	1.2	U
108-88-3	Toluene	1.2	U
100-41-4	Ethylbenzene	1.2	U
511-39-00	M,P-Xylene	2.5	U
95-47-6	O-Xylene	1.2	U

1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062B146S101801

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

Lab Code: PEL Case No. SAS No: SDG No.: 2110094

Matrix: SOIL Lab Sample ID 211009414 Lab File ID 94-14.D

Sample wt/vol: 4.34 Units: G Date Received: 10/19/01

Concentrated Extract Volume: Date Extracted:

Level:(low/med) LOW Date Analyzed: 10/26/01 Time: 0042

PercentSolids: 93 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID B-146 @ 4ft Method: 8021

GPC Cleanup : (Y/N) pH:

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

CONCENTRATION UNITS: ug/Kg

CAS NO.	ANALYTE	RESULT	Q
71-43-2	Benzene	1.2	U
1634-04-4	MTBE	1.2	U
108-88-3	Toluene	1.2	U
100-41-4	Ethylbenzene	1.2	U
511-39-00	M,P-Xylene	2.5	U
95-47-6	O-Xylene	1.2	U

1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062B158S101801

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

Lab Code: PEL Case No. SAS No: SDG No.: 2110094

Matrix: SOIL Lab Sample ID 211009415 Lab File ID 94-15.D

Sample wt/vol: 4.8 Units: G Date Received: 10/19/01

Concentrated Extract Volume: Date Extracted:

Level:(low/med) LOW Date Analyzed: 10/26/01 Time: 0135

PercentSolids: 84 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID B-158 @ 4ft Method: 8021

GPC Cleanup : (Y/N) pH:

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

CONCENTRATION UNITS: ug/Kg

CAS NO.	ANALYTE	RESULT	Q
71-43-2	Benzene	1.2	U
1634-04-4	MTBE	1.2	U
108-88-3	Toluene	1.2	U
100-41-4	Ethylbenzene	1.2	U
511-39-00	M,P-Xylene	2.5	U
95-47-6	O-Xylene	1.2	U

1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062B167S101801

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

Lab Code : PEL Case No. SAS No: SDG No.: 2110094

Matrix: SOIL Lab Sample ID 211009416 Lab File ID 94-16.D

Sample wt/vol: 6.02 Units: G Date Received: 10/19/01

Concentrated Extract Volume: Date Extracted:

Level:(low/med) LOW Date Analyzed: 10/26/01 Time: 0228

PercentSolids: 87 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID B-167 @ 4ft Method: 8021

GPC Cleanup : (Y/N) pH:

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

CONCENTRATION UNITS: ug/Kg

CAS NO.	ANALYTE	RESULT	Q
71-43-2	Benzene	29	
1634-04-4	MTBE	3.4	
108-88-3	Toluene	19	
100-41-4	Ethylbenzene	968	E
511-39-00	M,P-Xylene	1100	E
95-47-6	O-Xylene	151	E

1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

B167S101801DL1

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

Lab Code : PEL Case No. SAS No: SDG No.: 2110094

Matrix: SOIL Lab Sample ID 211009416DL1 Lab File ID 94-16D1.D

Sample wt/vol: 5 Units: G Date Received: 10/19/01

Concentrated Extract Volume: Date Extracted:

Level:(low/med) HIGH Date Analyzed: 10/30/01 Time: 0618

PercentSolids: 87 decanted : Dilution Factor: 92

Extraction: PURGETRAP Station ID boring B-167 @ Method: 8021

GPC Cleanup : (Y/N) pH:

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

CONCENTRATION UNITS: ug/Kg

CAS NO.	ANALYTE	RESULT	Q
71-43-2	Benzene	105	U
1634-04-4	MTBE	105	U
108-88-3	Toluene	105	U
100-41-4	Ethylbenzene	3840	
511-39-00	M,P-Xylene	4450	
95-47-6	O-Xylene	884	

1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062B189S101801

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

Lab Code: PEL Case No. SAS No: SDG No.: 2110094

Matrix: SOIL Lab Sample ID 211009417 Lab File ID 94-17.D

Sample wt/vol: 4.9 Units: G Date Received: 10/19/01

Concentrated Extract Volume: Date Extracted:

Level:(low/med) LOW Date Analyzed: 10/26/01 Time: 0322

PercentSolids: 88 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID B-189 @ 4ft Method: 8021

GPC Cleanup : (Y/N) pH:

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

CONCENTRATION UNITS: ug/Kg

CAS NO.	ANALYTE	RESULT	Q
71-43-2	Benzene	1.2	U
1634-04-4	MTBE	1.2	U
108-88-3	Toluene	1.2	U
100-41-4	Ethylbenzene	0.62	J
511-39-00	M,P-Xylene	4.2	
95-47-6	O-Xylene	1.2	U

1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062DUP1S101801

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

Lab Code : PEL Case No. SAS No: SDG No.: 2110094

Matrix: SOIL Lab Sample ID 211009418 Lab File ID 94-18.D

Sample wt/vol: 4.9 Units: G Date Received: 10/19/01

Concentrated Extract Volume: Date Extracted:

Level:(low/med) LOW Date Analyzed: 10/26/01 Time: 0415

PercentSolids: 89 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID Duplicate #1 Method: 8021

GPC Cleanup : (Y/N) pH:

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

CONCENTRATION UNITS: ug/Kg

CAS NO.	ANALYTE	RESULT	Q
71-43-2	Benzene	1.1	U
1634-04-4	MTBE	1.1	U
108-88-3	Toluene	1.1	U
100-41-4	Ethylbenzene	0.29	J
511-39-00	M,P-Xylene	2.3	U
95-47-6	O-Xylene	1.1	U

1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062DUP2S101801

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

Lab Code: PEL Case No. SAS No: SDG No.: 2110094

Matrix: SOIL Lab Sample ID 211009419 Lab File ID 94-19.D

Sample wt/vol: 4.59 Units: G Date Received: 10/19/01

Concentrated Extract Volume: Date Extracted:

Level:(low/med) LOW Date Analyzed: 10/26/01 Time: 0508

PercentSolids: 86 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID Duplicate #2 Method: 8021

GPC Cleanup : (Y/N) pH:

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

CONCENTRATION UNITS: ug/Kg

CAS NO.	ANALYTE	RESULT	Q
71-43-2	Benzene	1.3	U
1634-04-4	MTBE	1.3	U
108-88-3	Toluene	1.3	U
100-41-4	Ethylbenzene	1.3	U
511-39-00	M,P-Xylene	2.5	U
95-47-6	O-Xylene	1.3	U

1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062EB1W101801

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

Lab Code: PEL Case No. SAS No: SDG No.: 2110094

Matrix: WATER Lab Sample ID 211009420 Lab File ID 94-20.D

Sample wt/vol: 5 Units: ML Date Received: 10/19/01

Concentrated Extract Volume: Date Extracted:

Level:(low/med) LOW Date Analyzed: 10/25/01 Time: 1315

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	1	U
1634-04-4	MTBE	1	U
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
511-39-00	M,P-Xylene	2	U
95-47-6	O-Xylene	1	U

1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062TB1W101801

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

Lab Code : PEL Case No. SAS No: SDG No.: 2110094

Matrix: WATER Lab Sample ID 211009421 Lab File ID 94-21.D

Sample wt/vol: 5 Units: ML Date Received: 10/19/01

Concentrated Extract Volume: Date Extracted:

Level:(low/med) LOW Date Analyzed: 10/25/01 Time: 1405

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID Trip Blank #1 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	1	U
1634-04-4	MTBE	1	U
108-88-3	Toluene	2.7	
100-41-4	Ethylbenzene	1	U
511-39-00	M,P-Xylene	2	U
95-47-6	O-Xylene	1	U

1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062TB2W101801

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

Lab Code : PEL Case No. SAS No: SDG No.: 2110094

Matrix: WATER Lab Sample ID 211009422 Lab File ID 94-22.D

Sample wt/vol: 5 Units: ML Date Received: 10/19/01

Concentrated Extract Volume: Date Extracted:

Level:(low/med) LOW Date Analyzed: 10/25/01 Time: 1455

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID Trip Blank #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	1	U
1634-04-4	MTBE	1	U
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
511-39-00	M,P-Xylene	2	U
95-47-6	O-Xylene	1	U

QC Summary

1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 1024BLK61

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

Lab Code: PEL Case No. SAS No: SDG No.: 2110094

Matrix: SOIL Lab Sample ID: 1024BLK61 Lab File ID: BLK61.D

Sample wt/vol: 5 Units: G Date Received: 10/24/01

Concentrated Extract Volume: Date Extracted:

Level:(low/med) LOW Date Analyzed: 10/24/01 Time: 1817

PercentSolids: 100 decanted: Dilution Factor: 1

Extraction: PURGETRAP Station ID: QC Method: 8021

GPC Cleanup: (Y/N) pH:

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

CONCENTRATION UNITS: ug/Kg

CAS NO.	ANALYTE	RESULT	Q
71-43-2	Benzene	1	U
1634-04-4	MTBE	1	U
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
511-39-00	M,P-Xylene	2	U
95-47-6	O-Xylene	1	U

1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 1025BLK51

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

Lab Code: PEL Case No. SAS No: SDG No.: 2110094

Matrix: WATER Lab Sample ID: 1025BLK51 Lab File ID: BLK51.D

Sample wt/vol: 5 Units: ML Date Received: 10/25/01

Concentrated Extract Volume: Date Extracted:

Level:(low/med) LOW Date Analyzed: 10/25/01 Time: 1225

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID: QC 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	1	U
1634-04-4	MTBE	1	U
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
511-39-00	M,P-Xylene	2	U
95-47-6	O-Xylene	1	U

1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 1025BLK61

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

Lab Code: PEL Case No. SAS No: SDG No.: 2110094

Matrix: SOIL Lab Sample ID: 1025BLK61 Lab File ID: BLK61.D

Sample wt/vol: 5 Units: G Date Received: 10/25/01

Concentrated Extract Volume: Date Extracted:

Level:(low/med) LOW Date Analyzed: 10/25/01 Time: 1452

PercentSolids: 100 decanted: Dilution Factor: 1

Extraction: PURGETRAP Station ID: QC Method: 8021

GPC Cleanup: (Y/N) pH:

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

CONCENTRATION UNITS: ug/Kg

CAS NO.	ANALYTE	RESULT	Q
71-43-2	Benzene	1	U
1634-04-4	MTBE	1	U
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
511-39-00	M,P-Xylene	2	U
95-47-6	O-Xylene	1	U

1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 1029BLK61

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

Lab Code : PEL Case No. SAS No: SDG No.: 2110094

Matrix: SOIL Lab Sample ID 1029BLK61 Lab File ID BLK61.D

Sample wt/vol: 5 Units: G Date Received: 10/29/01

Concentrated Extract Volume: Date Extracted:

Level:(low/med) LOW Date Analyzed: 10/29/01 Time: 1332

PercentSolids: 100 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID QC Method: 8021

GPC Cleanup : (Y/N) pH:

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

CONCENTRATION UNITS: ug/Kg

CAS NO.	ANALYTE	RESULT	Q
71-43-2	Benzene	1	U
1634-04-4	MTBE	1	U
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
511-39-00	M,P-Xylene	2	U
95-47-6	O-Xylene	1	U

1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 1029MBLK62

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

Lab Code: PEL Case No. SAS No: SDG No.: 2110094

Matrix: SOIL Lab Sample ID: 1029MBLK62 Lab File ID: MBLK62.D

Sample wt/vol: 5 Units: G Date Received: 10/29/01

Concentrated Extract Volume: Date Extracted:

Level:(low/med) HIGH Date Analyzed: 10/29/01 Time: 2316

PercentSolids: 100 decanted: Dilution Factor: 100

Extraction: PURGETRAP Station ID QC Method: 8021

GPC Cleanup: (Y/N) pH:

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

CONCENTRATION UNITS: ug/Kg

CAS NO.	ANALYTE	RESULT	Q
71-43-2	Benzene	100	U
1634-04-4	MTBE	100	U
108-88-3	Toluene	100	U
100-41-4	Ethylbenzene	100	U
511-39-00	M,P-Xylene	200	U
95-47-6	O-Xylene	100	U

4

VOLATILE ORGANIC METHOD BLANK SUMMARY

EPA Sample No.: 1024BLK61

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

Lab Code: PEL Case No. SAS No: SDG No.: 2110094

Lab File ID: BLK61.D Lab Sample ID: 1024BLK61

Instrument ID: vgc6 Date Extracted:

Matrix: SOIL Date Analyzed: 10/24/01

Level:(low/med) LOW Time Analyzed: 1817

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	1024LCS62	1024LCS62	LCS62.D	10/24/01	1723
2	1024BLK61MS	1024BLK61MS	BLK61S.D	10/24/01	1911
3	1024BLK61SD	1024BLK61SD	BLK61D.D	10/24/01	2004
4	062B7S101801	211009401	94-1.D	10/24/01	2058
5	062B31S101801	211009402	94-2.D	10/24/01	2151
6	062B41S101801	211009403	94-3.D	10/24/01	2245
7	062B70S101801	211009404	94-4.D	10/24/01	2338

COMMENTS:

4

VOLATILE ORGANIC METHOD BLANK SUMMARY

EPA Sample No.: 1025BLK51

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

Lab Code: PEL Case No. SAS No: SDG No.: 2110094

Lab File ID: BLK51.D Lab Sample ID: 1025BLK51

Instrument ID: vgc5 Date Extracted:

Matrix: WATER Date Analyzed: 10/25/01

Level:(low/med) LOW Time Analyzed: 1225

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	1025LCS51	1025LCS51	LCS51.D	10/25/01	1135
2	062EB1W101801	211009420	94-20.D	10/25/01	1315
3	062TB1W101801	211009421	94-21.D	10/25/01	1405
4	062TB2W101801	211009422	94-22.D	10/25/01	1455
5	1025BLK51SD	1025BLK51SD	BLKD.D	10/25/01	1721
6	1025BLK51MS	1025BLK51MS	BLKU.D	10/25/01	1809

COMMENTS:

4

VOLATILE ORGANIC METHOD BLANK SUMMARY

EPA Sample No.: 1025BLK61

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

Lab Code: PEL Case No. SAS No: SDG No.: 2110094

Lab File ID: BLK61.D Lab Sample ID: 1025BLK61

Instrument ID: vgc6 Date Extracted:

Matrix: SOIL Date Analyzed: 10/25/01

Level:(low/med) LOW Time Analyzed: 1452

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	1025LCS61	1025LCS61	LCS61.D	10/25/01	1207
2	B101S101801MS	211009408	94-8S.D	10/25/01	1302
3	B101S101801SD	211009409	94-9D.D	10/25/01	1357
4	B101S101801	211009407	94-7.D	10/25/01	1828
5	062B104S101801	211009410	94-10.D	10/25/01	1922
6	062B106S101801	211009411	94-11.D	10/25/01	2015
7	062B110S101801	211009412	94-12.D	10/25/01	2256
8	062B137S101801	211009413	94-13.D	10/25/01	2349
9	062B146S101801	211009414	94-14.D	10/26/01	0042
10	062B158S101801	211009415	94-15.D	10/26/01	0135
11	062B167S101801	211009416	94-16.D	10/26/01	0228
12	062B189S101801	211009417	94-17.D	10/26/01	0322
13	062DUP1S101801	211009418	94-18.D	10/26/01	0415
14	062DUP2S101801	211009419	94-19.D	10/26/01	0508

COMMENTS:

VOLATILE ORGANIC METHOD BLANK SUMMARY

EPA Sample No.: 1029BLK61

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

Lab Code : PEL Case No. SAS No: SDG No.: 2110094

Lab File ID BLK61.D Lab Sample ID 1029BLK61

Instrument ID: vgc6 Date Extracted:

Matrix: SOIL Date Analyzed: 10/29/01

Level:(low/med) LOW Time Analyzed: 1332

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	1029LCS61	1029LCS61	LCS61.D	10/29/01	1239
2	1029BLK61SD	1029BLK61SD	BLK61D.D	10/29/01	1426
3	1029BLK61MS	1029BLK61MS	BLK61MS.D	10/29/01	1519
4	062B96S101801	211009405	94-5R.D	10/29/01	1612
5	062B99S101801	211009406	94-6R.D	10/29/01	1706
6	1029MBLK62MS	1029MBLK62MS	MBLK62S.D	10/30/01	0101
7	1029MBLK62SD	1029MBLK62SD	MBLK62D.D	10/30/01	0154
8	B167S101801DL1	211009416DL1	94-16D1.D	10/30/01	0618

COMMENTS:

4

VOLATILE ORGANIC METHOD BLANK SUMMARY

EPA Sample No.: 1029MBLK62

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

Lab Code: PEL Case No. SAS No: SDG No.: 2110094

Lab File ID: MBLK62.D Lab Sample ID: 1029MBLK62

Instrument ID: vgc6 Date Extracted:

Matrix: SOIL Date Analyzed: 10/29/01

Level:(low/med) HIGH Time Analyzed: 2316

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	1029LCS61	1029LCS61	LCS61.D	10/29/01	1239
2	1029BLK61SD	1029BLK61SD	BLK61D.D	10/29/01	1426
3	1029BLK61MS	1029BLK61MS	BLK61MS.D	10/29/01	1519
4	062B96S101801	211009405	94-5R.D	10/29/01	1612
5	062B99S101801	211009406	94-6R.D	10/29/01	1706
6	1029MBLK62MS	1029MBLK62MS	MBLK62S.D	10/30/01	0101
7	1029MBLK62SD	1029MBLK62SD	MBLK62D.D	10/30/01	0154
8	B167S101801DL1	211009416DL1	94-16D1.D	10/30/01	0618

COMMENTS:

WATER VOLATILE ORGANIC SURROGATE RECOVERY

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

Lab Code : PEL Case No. _____ SAS No: _____ SDG NO.: 2110094

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

EPA Sample NO.	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	TOT OUT
062EB1W101801	82.3						0
062TB1W101801	86.0						0
062TB2W101801	85.0						0
1025BLK51	86.0						0
1025BLK51MS	83.7						0
1025BLK51SD	81.3						0
1025LCS51	94.3						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

001101 1317

SOIL VOLATILE ORGANIC SURROGATE RECOVERY

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

Lab Code: PEL Case No. _____ SAS No: _____ SDG NO.: 2110094

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

EPA Sample NO.	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	TOT OUT
062B104S101801	48.0 *						1
062B106S101801	42.3 *						1
062B110S101801	69.3 *						1
062B137S101801	28.3 *						1
062B146S101801	37.0 *						1
062B158S101801	84.7						0
062B167S101801	41.7 *						1
062B189S101801	71.3						0
062B31S101801	53.0 *						1
062B41S101801	50.0 *						1
062B70S101801	28.3 *						1
062B7S101801	62.7 *						1
062B96S101801	80.3						0
062B99S101801	71.3						0
062DUP1S101801	32.3 *						1
062DUP2S101801	43.0 *						1
1024BLK61	89.3						0
1024BLK61MS	89.3						0
1024BLK61SD	86.3						0
1024LCS62	91.3						0
1025BLK61	88.0						0
1025LCS61	89.3						0
1029BLK61	93.0						0
1029BLK61MS	96.7						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

051101 1317

SOIL VOLATILE ORGANIC SURROGATE RECOVERY

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

Lab Code : PEL Case No. _____ SAS No: _____ SDG NO.: 2110094

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

EPA Sample NO.	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	TOT OUT
1029BLK61SD	96.0						0
1029LCS61	92.7						0
1029MBLK62	87.0						0
1029MBLK62MS	87.7						0
1029MBLK62SD	86.0						0
B101S101801	43.7 *						1
B101S101801MS	38.7 *						1
B101S101801SD	34.7 *						1
B167S101801DL1	97.3						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

061101 1317

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2110094

Lab File ID (Standard): CCV62 Date Analyzed: 10/24/01

Instrument ID: VGC6 Time Analyzed: 1534

GC Column: RTX-502.2 ID: 0.53 (mm) Heated Purge: (Y/N) Y

		IS1 AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	109188	15.07				
	UPPER LIMIT	218376	15.57				
	LOWER LIMIT	54594	14.57				
	CLIENT SAMPLE NO.						
01	1024LCS62	92609	15.05				
02	1024BLK61	93995	15.03				
03	1024BLK61MS	94010	15.02				
04	1024BLK61SD	93679	15.01				
05	062B7S101801	100180	15.00				
06	062B31S101801	99625	15.00				
07	062B41S101801	99102	15.00				
08	062B70S101801	96842	14.99				
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 = Fluorobenzene

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

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2110094

Lab File ID (Standard): CCV51 Date Analyzed: 10/25/01

Instrument ID: VGC5 Time Analyzed: 0824

GC Column: RTX 502.2 ID: 0.53 (mm) Heated Purge: (Y/N) N

		IS1 AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	274343	14.39				
	UPPER LIMIT	548686	14.89				
	LOWER LIMIT	137172	13.89				
	CLIENT SAMPLE NO.						
01	1025LCS51	264384	14.42				
02	1025BLK51	293786	14.43				
03	062EB1W101801	300370	14.44				
04	062TB1W101801	286181	14.44				
05	062TB2W101801	282118	14.44				
06	1025BLK51SD	289404	14.42				
07	1025BLK51MS	279580	14.42				
08							
09							
10							
11							
12							
13							
14							
15							
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18							
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20							
21							
22							

IS1 = Fluorobenzene

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

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2110094

Lab File ID (Standard): CCV61 Date Analyzed: 10/25/01

Instrument ID: VGC6 Time Analyzed: 1018

GC Column: RTX-502.2 ID: 0.53 (mm) Heated Purge: (Y/N) Y

		IS1 AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	96643	15.00				
	UPPER LIMIT	193286	15.50				
	LOWER LIMIT	48322	14.50				
	CLIENT SAMPLE NO.						
01	1025LCS61	92931	15.03				
02	B101S101801MS	94172	15.05				
03	B101S101801SD	92714	15.07				
04	1025BLK61	89145	15.07				
05	B101S101801	90669	15.02				
06	062B104S101801	93301	15.01				
07	062B106S101801	92622	15.01				
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 = Fluorobenzene

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

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2110094

Lab File ID (Standard): CCV63 Date Analyzed: 10/25/01

Instrument ID: VGC6 Time Analyzed: 2109

GC Column: RTX-502.2 ID: 0.53 (mm) Heated Purge: (Y/N) Y

		IS1 AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	90873	15.01				
	UPPER LIMIT	181746	15.51				
	LOWER LIMIT	45437	14.51				
	CLIENT SAMPLE NO.						
01	062B110S101801	93372	15.00				
02	062B137S101801	92114	14.99				
03	062B146S101801	91294	14.99				
04	062B158S101801	91561	14.99				
05	062B167S101801	166545	15.01				
06	062B189S101801	82149	14.99				
07	062DUP1S101801	85397	14.99				
08	062DUP2S101801	85791	14.98				
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 = Fluorobenzene

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

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2110094

Lab File ID (Standard): CCV63 Date Analyzed: 10/29/01

Instrument ID: VGC6 Time Analyzed: 1146

GC Column: RTX-502.2 ID: 0.53 (mm) Heated Purge: (Y/N) Y

		IS1 AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	90963	14.99				
	UPPER LIMIT	181926	15.49				
	LOWER LIMIT	45482	14.49				
	CLIENT SAMPLE NO.						
01	1029LCS61	89691	15.00				
02	1029BLK61	86428	15.01				
03	1029BLK61SD	88685	15.00				
04	1029BLK61MS	87347	15.01				
05	062B96S101801	92873	15.00				
06	062B99S101801	87701	15.00				
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 = Fluorobenzene

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

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2110094

Lab File ID (Standard): CCV65 Date Analyzed: 10/29/01

Instrument ID: VGC6 Time Analyzed: 2223

GC Column: RTX-502.2 ID: 0.53 (mm) Heated Purge: (Y/N) Y

		IS1 AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	89719	14.98				
	UPPER LIMIT	179438	15.48				
	LOWER LIMIT	44860	14.48				
	CLIENT SAMPLE NO.						
01	1029MBLK62	85626	14.98				
02	1029MBLK62MS	86391	14.98				
03	1029MBLK62SD	85523	14.98				
04	B167S101801DL1	88920	14.97				
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 = Fluorobenzene

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

FORM 8
VOLATILE ANALYTICAL SEQUENCE

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2110094

GC Column: RTX 502.2 ID: 0.53 (mm) Init. Calib. Date: 10/23/01

Instrument ID: VGC5

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

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 28.93 S2 : 28.44

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #
01	500PPTSTD	500PPTSTD	10/22/01	1718	28.94	28.47
02	1PPBSTD	1PPBSTD	10/22/01	1806	28.94	28.47
03	2PPBSTD	2PPBSTD	10/22/01	1940	28.93	28.46
04	5PPBSTD	5PPBSTD	10/22/01	2114	28.93	28.45
05	10PPBSTD	10PPBSTD	10/22/01	2201	28.92	28.45
06	20PPBSTD	20PPBSTD	10/22/01	2248	28.92	28.44
07	30PPBSTD	30PPBSTD	10/22/01	2335	28.92	28.44
08	40PPBSTD	40PPBSTD	10/23/01	0022	28.92	28.44
09	50PPBSTD	50PPBSTD	10/23/01	0108	28.92	28.44
10	100PPBSTD	100PPBSTD	10/23/01	0155	28.92	28.44
11	1025CCV51	1025CCV51	10/25/01	0824	28.91	
12	1025LCS51	1025LCS51	10/25/01	1135	28.95	
13	1025BLK51	1025BLK51	10/25/01	1225	28.96	
14	062EB1W101801	211009420	10/25/01	1315	28.97	
15	062TB1W101801	211009421	10/25/01	1405	28.97	
16	062TB2W101801	211009422	10/25/01	1455	28.97	
17	1025BLK51SD	1025BLK51SD	10/25/01	1721	28.96	
18	1025BLK51MS	1025BLK51MS	10/25/01	1809	28.96	
19	1025CCV53	1025CCV53	10/25/01	1857	28.95	
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						

QC LIMITS

S1 = 4-bromofluorobenzene (+/- 0.20 MINUTES)
S2 = 1,4-dichlorobutane (+/- 0.20 MINUTES)

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

FORM 8
VOLATILE ANALYTICAL SEQUENCE

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2110094

GC Column: RTX-502.2 ID: 0.53 (mm) Init. Calib. Date: 10/23/01

Instrument ID: VGC6

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

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 30.51 S2 : 29.92

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #
01	100PPBSTD	100PPBSTD	10/23/01	1330	30.58	29.99
02	50PPBSTD	50PPBSTD	10/23/01	1425	30.59	30.00
03	40PPBSTD	40PPBSTD	10/23/01	1519	30.60	30.01
04	30PPBSTD	30PPBSTD	10/23/01	1613	30.60	30.01
05	20PPBSTD	20PPBSTD	10/23/01	1708	30.59	30.00
06	10PPBSTD	10PPBSTD	10/23/01	1802	30.58	29.99
07	5PPBSTD	5PPBSTD	10/23/01	1856	30.56	29.97
08	2PPBSTD	2PPBSTD	10/23/01	1949	30.54	29.96
09	1PPBSTD	1PPBSTD	10/23/01	2136	30.53	29.94
10	500PPTSTD	500PPTSTD	10/23/01	2322	30.51	29.92
11	1024CCV62	1024CCV62	10/24/01	1534	30.65	
12	1024LCS62	1024LCS62	10/24/01	1723	30.61	
13	1024BLK61	1024BLK61	10/24/01	1817	30.59	
14	1024BLK61MS	1024BLK61MS	10/24/01	1911	30.58	
15	1024BLK61SD	1024BLK61SD	10/24/01	2004	30.57	
16	062B7S101801	211009401	10/24/01	2058	30.56	
17	062B31S101801	211009402	10/24/01	2151	30.56	
18	062B41S101801	211009403	10/24/01	2245	30.55	
19	062B70S101801	211009404	10/24/01	2338	30.54	
20	1024CCV63	1024CCV63	10/25/01	0311	30.53	
21	1025CCV61	1025CCV61	10/25/01	1018	30.56	
22	1025LCS61	1025LCS61	10/25/01	1207	30.60	
23	B101S101801MS	211009408	10/25/01	1302	30.63	
24	B101S101801SD	211009409	10/25/01	1357	30.64	
25	1025BLK61	1025BLK61	10/25/01	1452	30.64	
26	B101S101801	211009407	10/25/01	1828	30.57	
27	062B104S101801	211009410	10/25/01	1922	30.56	
28	062B106S101801	211009411	10/25/01	2015	30.56	
29	1025CCV63	1025CCV63	10/25/01	2109	30.56	
30	062B110S101801	211009412	10/25/01	2256	30.54	
31	062B137S101801	211009413	10/25/01	2349	30.54	
32	062B146S101801	211009414	10/26/01	0042	30.54	

QC LIMITS

S1 = 4-bromofluorobenzene (+/- 0.20 MINUTES)
S2 = 1,4-dichlorobutane (+/- 0.20 MINUTES)

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

FORM 8
VOLATILE ANALYTICAL SEQUENCE

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2110094

GC Column: RTX-502.2 ID: 0.53 (mm) Init. Calib. Date: 10/23/01

Instrument ID: VGC6

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

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 30.51 S2 : 29.92

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #
01	062B158S101801	211009415	10/26/01	0135	30.55	
02	062B167S101801	211009416	10/26/01	0228	30.55	
03	062B189S101801	211009417	10/26/01	0322	30.54	
04	062DUP1S101801	211009418	10/26/01	0415	30.53	
05	062DUP2S101801	211009419	10/26/01	0508	30.53	
06	1025CCV65	1025CCV65	10/26/01	0601	30.52	
07	1029CCV63	1029CCV63	10/29/01	1146	30.54	
08	1029LCS61	1029LCS61	10/29/01	1239	30.55	
09	1029BLK61	1029BLK61	10/29/01	1332	30.56	
10	1029BLK61SD	1029BLK61SD	10/29/01	1426	30.56	
11	1029BLK61MS	1029BLK61MS	10/29/01	1519	30.56	
12	062B96S101801	211009405	10/29/01	1612	30.56	
13	062B99S101801	211009406	10/29/01	1706	30.54	
14	1029CCV65	1029CCV65	10/29/01	2223	30.52	
15	1029MBLK62	1029MBLK62	10/29/01	2316	30.52	
16	1029MBLK62MS	1029MBLK62MS	10/30/01	0101	30.52	
17	1029MBLK62SD	1029MBLK62SD	10/30/01	0154	30.51	
18	B167S101801DL1	211009416DL1	10/30/01	0618	30.51	
19	1029CCV66	1029CCV66	10/30/01	0956	30.47	
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						

QC LIMITS

S1 = 4-bromofluorobenzene (+/- 0.20 MINUTES)
S2 = 1,4-dichlorobutane (+/- 0.20 MINUTES)

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

3

VOLATILE ORGANIC LAB CONTROL SAMPLE RECOVERY

EPA Sample No.: 1024LCS62

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

Lab Code: PEL Case No. _____ SAS No: _____ SDG No.: 2110094

COMPOUND	SPIKE ADDED ug/kg	LCS CONCENTRATION ug/kg	LCS % REC #	QC LIMITS REC.
Benzene	10	7.8	78.0 *	86 - 117
MTBE	10	7.3	73.0	61 - 138
Toluene	10	8.9	89.0	87 - 118
Ethylbenzene	10	8.7	87.0	84 - 119
M,P-Xylene	20	18	90.0	86 - 119
O-Xylene	10	9.2	92.0	87 - 119

Spike Recovery: 1 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: _____

3

VOLATILE ORGANIC LAB CONTROL SAMPLE RECOVERY

EPA Sample No.

1025LCS51

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

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 2110094

COMPOUND	SPIKE ADDED ug/l	LCS CONCENTRATION ug/l	LCS % REC #	QC LIMITS REC.
Benzene	10	8.7	87.0	86 - 117
MTBE	10	10	103.0	61 - 138
Toluene	10	9.5	95.0	87 - 118
Ethylbenzene	10	9.6	96.0	84 - 119
M,P-Xylene	20	19	96.0	86 - 119
O-Xylene	10	9.9	99.0	87 - 119

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: _____

3

VOLATILE ORGANIC LAB CONTROL SAMPLE RECOVERY

EPA Sample No.

1025LCS61

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

Lab Code: PEL Case No. _____ SAS No: _____ SDG No.: 2110094

COMPOUND	SPIKE ADDED ug/kg	LCS CONCENTRATION ug/kg	LCS % REC #	QC LIMITS REC.
Benzene	10	8.2	82.0	86 - 117
MTBE	10	7.7	77.0	61 - 138
Toluene	10	9.5	95.0	87 - 118
Ethylbenzene	10	9.2	92.0	84 - 119
M,P-Xylene	20	18	89.0	86 - 119
O-Xylene	10	9.1	91.0	87 - 119

Spike Recovery: 1 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: _____

_____

3

VOLATILE ORGANIC LAB CONTROL SAMPLE RECOVERY

EPA Sample No.: 1029LCS61

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

Lab Code: PEL Case No. _____ SAS No: _____ SDG No.: 2110094

COMPOUND	SPIKE ADDED ug/kg	LCS CONCENTRATION ug/kg	LCS % REC #	QC LIMITS REC.
Benzene	10	12	115.0	86 - 117
MTBE	10	9	90.0	61 - 138
Toluene	10	12	116.0	87 - 118
Ethylbenzene	10	12	117.0	84 - 119
M,P-Xylene	20	23	114.5	86 - 119
O-Xylene	10	12	117.0	87 - 119

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: _____

3

VOLATILE ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Sample No.

1024BLK61MS

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

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 2110094

COMPOUND	SPIKE ADDED ug/kg	SAMPLE CONCENTRATION ug/kg	MS CONCENTRATION ug/kg	MS % REC #	QC LIMITS REC.
Benzene	10	0	7.9	79.0 *	82 - 122
MTBE	10	0	7.1	71.0	67 - 137
Toluene	10	0	8.3	83.0	80 - 124
Ethylbenzene	10	0	8.5	85.0	79 - 123
M,P-Xylene	20	0	16	82.5	82 - 122
O-Xylene	10	0	8.6	86.0	81 - 124

Spike Recovery: 1 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

061101 1317

3

VOLATILE ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Sample No.

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field | 1024BLK61SD

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 2110094

COMPOUND	SPIKE ADDED ug/kg	MSD CONCENTRATION ug/kg	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Benzene	10	7.7	77.0	2.6	12	82 - 122
MTBE	10	7	70.0	1.4	15	67 - 137
Toluene	10	8.4	84.0	1.2	14	80 - 124
Ethylbenzene	10	8.2	82.0	3.6	18	79 - 123
M,P-Xylene	20	17	86.5	6.1	19	82 - 122
O-Xylene	10	8.4	84.0	2.4	16	81 - 124

RPD 0 out of 6 outside limits

Spike Recovery: 1 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: _____

3

VOLATILE ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Sample No.

1025BLK51MS

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

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 2110094

COMPOUND	SPIKE ADDED ug/l	SAMPLE CONCENTRATION ug/l	MS CONCENTRATION ug/l	MS % REC #	QC LIMITS REC.
Benzene	10	0	12	121.0	82 - 122
MTBE	10	0	13	133.0	67 - 137
Toluene	10	0	12	122.0	80 - 124
Ethylbenzene	10	0	12	115.0	79 - 123
M,P-Xylene	20	0	23	115.0	82 - 122
O-Xylene	10	0	12	119.0	81 - 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: _____

Form III

061101 1317

3

VOLATILE ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Sample No.

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field | 1025BLK51SD

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 2110094

COMPOUND	SPIKE ADDED ug/l	MSD CONCENTRATION ug/l	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Benzene	10	12	122.0	0	12	82 - 122
MTBE	10	13	131.0	0	15	67 - 137
Toluene	10	12	121.0	0	14	80 - 124
Ethylbenzene	10	12	115.0	0	18	79 - 123
M,P-Xylene	20	23	114.0	0	19	82 - 122
O-Xylene	10	12	120.0	0	16	81 - 124

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

001901 1317

3

VOLATILE ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Sample No.

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field | 1029BLK61MS

Lab Code : PEL Case No. ____ SAS No: ____ SDG No.: 2110094

COMPOUND	SPIKE ADDED ug/kg	SAMPLE CONCENTRATION ug/kg	MS CONCENTRATION ug/kg	MS % REC #	QC LIMITS REC.
Benzene	10	0	12	119.0	82 - 122
MTBE	10	0	9.5	95.0	67 - 137
Toluene	10	0	12	123.0	80 - 124
Ethylbenzene	10	0	12	118.0	79 - 123
M,P-Xylene	20	0	24	119.0	82 - 122
O-Xylene	10	0	12	117.0	81 - 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: _____

Form III

081101 1317

3

VOLATILE ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Sample No.

1029BLK61SD

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

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 2110094

COMPOUND	SPIKE ADDED ug/kg	MSD CONCENTRATION ug/kg	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Benzene	10	12	118.0	0	12	82 - 122
MTBE	10	9.3	93.0	2.1	15	67 - 137
Toluene	10	12	124.0	0	14	80 - 124
Ethylbenzene	10	12	118.0	0	18	79 - 123
M,P-Xylene	20	23	116.5	4.3	19	82 - 122
O-Xylene	10	12	119.0	0	16	81 - 124

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

001301 1317

3

VOLATILE ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Sample No.

1029MBLK62MS

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

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 2110094

COMPOUND	SPIKE ADDED ug/kg	SAMPLE CONCENTRATION ug/kg	MS CONCENTRATION ug/kg	MS % REC #	QC LIMITS REC.
Benzene	1000	0	1100	110.0	82 - 122
MTBE	1000	0	851	85.0	67 - 137
Toluene	1000	0	1100	110.0	80 - 124
Ethylbenzene	1000	0	1100	110.0	79 - 123
M,P-Xylene	2000	0	2130	106.0	82 - 122
O-Xylene	1000	0	1110	111.0	81 - 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: _____

_____

Form III

081101 1317

3

VOLATILE ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Sample No.

1029MBLK62SD

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

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 2110094

COMPOUND	SPIKE ADDED ug/kg	MSD CONCENTRATION ug/kg	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Benzene	1000	1120	112.0	1.8	12	82 - 122
MTBE	1000	854	85.0	0.4	15	67 - 137
Toluene	1000	1120	112.0	1.8	14	80 - 124
Ethylbenzene	1000	1100	110.0	0	18	79 - 123
M,P-Xylene	2000	2140	107.0	0.5	19	82 - 122
O-Xylene	1000	1110	111.0	0	16	81 - 124

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

061101 1317

3

VOLATILE ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Sample No.

B101S101801MS

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

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 2110094

COMPOUND	SPIKE ADDED ug/kg	SAMPLE CONCENTRATION ug/kg	MS CONCENTRATION ug/kg	MS % REC #	QC LIMITS REC.
Benzene	11	0.88	9.4	78.0 *	82 - 122
MTBE	11	0	9.5	86.4	67 - 137
Toluene	11	1.2	7.5	57.0 *	80 - 124
Ethylbenzene	11	0	5.9	53.6 *	79 - 123
M,P-Xylene	22	0	11	49.3 *	82 - 122
O-Xylene	11	0	5.3	48.2 *	81 - 124

Spike Recovery: 5 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: _____

3

VOLATILE ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Sample No.

B101S101801SD

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

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 2110094

COMPOUND	SPIKE ADDED ug/kg	MSD CONCENTRATION ug/kg	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Benzene	11	9.1	72.0 *	3.2	12	82 - 122
MTBE	11	10	87.0	5.1	15	67 - 137
Toluene	11	6.4	45.0 *	15.8 *	14	80 - 124
Ethylbenzene	11	4.9	42.6 *	18.5 *	18	79 - 123
M,P-Xylene	23	9.7	42.2 *	12.6	19	82 - 122
O-Xylene	11	4.8	41.7 *	9.9	16	81 - 124

RPD 2 out of 6 outside limits

Spike Recovery: 5 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

Standards Data

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2110094

Instrument ID: VGC5 Calibration Date: 10/23/01

Column: RTX 502.2 ID: 0.53 (mm) Calibration Time: 0155

LAB FILE ID: RF0.5: 500PPTR RF1: 1PPB RF2: 2PPB
RF5: 5PPB RF10: 10PPB

COMPOUND	RF0.5	RF1	RF2	RF5	RF10
Benzene	2.023	1.564	1.434	1.386	1.863
MTBE		0.638	0.511	0.537	0.704
Toluene		2.139	1.397	1.430	1.726
Ethylbenzene		2.076	1.386	1.411	1.654
m,p-xylene		2.563	1.537	1.758	1.832
o-xylene		1.684	1.187	1.187	1.457
4-bromofluorobenzene			2.383	1.952	1.816

Calibration Criteria Is Stated In Narrative

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2110094

Instrument ID: VGC5 Calibration Date: 10/23/01

Column: RTX 502.2 ID: 0.53 (mm) Calibration Time: 0155

LAB FILE ID: RF20: 20PPB RF30: 30PPB RF40: 40PPB
RF50: 50PPB RF100: 100PPB

COMPOUND	RF20	RF30	RF40	RF50	RF100
Benzene	1.790	1.723	1.602	1.631	1.563
MTBE	0.702	0.648	0.630	0.611	0.566
Toluene	1.656	1.582	1.487	1.522	1.444
Ethylbenzene	1.558	1.482	1.392	1.414	1.355
m,p-xylene	1.713	1.646	1.530	1.564	1.489
o-xylene	1.410	1.342	1.262	1.287	1.240
4-bromofluorobenzene	1.731	1.620	1.641	1.536	1.472

Calibration Criteria Is Stated In Narrative

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2110094

Instrument ID: VGC5 Calibration Date: 10/23/01

Column: RTX 502.2 ID: 0.53 (mm) Calibration Time: 0155

COMPOUND	CURVE	COEFFICENT A1	%RSD OR R^2
Benzene	AVRG	1.65777217	11.8
MTBE	AVRG	0.61638301	11.0
Toluene	AVRG	1.59806613	14.4
Ethylbenzene	AVRG	1.52516526	14.9
m,p-xylene	AVRG	1.73702162	19.0
o-xylene	AVRG	1.33952230	11.9
4-bromofluorobenzene	AVRG	1.76888166	16.5

Calibration Criteria Is Stated In Narrative

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2110094

Instrument ID: VGC6 Calibration Date: 10/23/01

Column: RTX-502.2 ID: 0.53 (mm) Calibration Time: 2322

LAB FILE ID: RF0.5: 500PPT RF1: 1PPB RF2: 2PPB
RF5: 5PPB RF10: 10PPB

COMPOUND	RF0.5	RF1	RF2	RF5	RF10
Benzene	2.052	2.014	1.727	2.164	2.160
MTBE	0.795	0.664	0.592	0.787	0.809
Toluene		2.452	1.585	1.943	1.978
Ethylbenzene	2.210	2.217	1.478	1.841	1.826
m,p-xylene	2.377	2.580	1.844	2.074	2.064
o-xylene	1.930	1.877	1.336	1.681	1.674
4-bromofluorobenzene		2.017	2.003	1.519	1.749

Calibration Criteria Is Stated In Narrative

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2110094

Instrument ID: VGC6 Calibration Date: 10/23/01

Column: RTX-502.2 ID: 0.53 (mm) Calibration Time: 2322

LAB FILE ID: RF20: 20PPB RF30: 30PPB RF40: 40PPB
RF50: 50PPB RF100: 100PPB

COMPOUND	RF20	RF30	RF40	RF50	RF100
Benzene	1.885	1.912	1.926	1.971	1.804
MTBE	0.706	0.728	0.710	0.718	0.628
Toluene	1.708	1.748	1.762	1.812	1.656
Ethylbenzene	1.590	1.675	1.636	1.678	1.522
m,p-xylene	1.783	1.807	1.822	1.876	1.677
o-xylene	1.450	1.472	1.470	1.508	1.357
4-bromofluorobenzene	1.680	1.624	1.599	1.559	

Calibration Criteria Is Stated In Narrative

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2110094

Instrument ID: VGC6 Calibration Date: 10/23/01

Column: RTX-502.2 ID: 0.53 (mm) Calibration Time: 2322

COMPOUND	CURVE	COEFFICENT A1	%RSD OR R^2
Benzene	AVRG	1.96164997	7.2
MTBE	AVRG	0.71362235	10.0
Toluene	AVRG	1.84917577	14.0
Ethylbenzene	AVRG	1.76732056	14.8
m,p-xylene	AVRG	1.99044295	14.5
o-xylene	AVRG	1.57548844	13.1
4-bromofluorobenzene	AVRG	1.71885519	11.2

Calibration Criteria Is Stated In Narrative

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2110094

Instrument ID: VGC5 Calibration Date: 10/23/01

Column: RTX 502.2 ID: 0.53 (mm) Calibration Time: 0155

LAB FILE ID: RT1: 500PPTR RT2: 1PPB RT3: 2PPB
RT4: 5PPB RT5: 10PPB

COMPOUND	RT1	RT2	RT3	RT4	RT5
Benzene	13.973	13.977	13.947	13.963	13.953
MTBE		9.420	9.387	9.397	9.390
Toluene		18.890	18.863	18.867	18.857
Ethylbenzene		25.027	25.007	25.007	25.003
m,p-xylene		25.323	25.307	25.307	25.300
o-xylene		26.900	26.890	26.887	26.880
4-bromofluorobenzene			28.930	28.927	28.923

COMMENTS:

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2110094

Instrument ID: VGC5 Calibration Date: 10/23/01

Column: RTX 502.2 ID: 0.53 (mm) Calibration Time: 0155

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

COMPOUND	RT6	RT7	RT8	RT9	RT10
Benzene	13.950	13.957	13.950	13.953	13.950
MTBE	9.390	9.390	9.397	9.390	9.393
Toluene	18.850	18.857	18.853	18.857	18.857
Ethylbenzene	25.000	24.997	24.997	25.000	24.997
m,p-xylene	25.290	25.293	25.297	25.293	25.297
o-xylene	26.880	26.880	26.877	26.877	26.877
4-bromofluorobenzene	28.920	28.917	28.920	28.920	28.917

COMMENTS: _____

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2110094

Instrument ID: VGC5 Calibration Date: 10/23/01

Column: RTX 502.2 ID: 0.53 (mm) Calibration Time: 0155

COMPOUND	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Benzene	13.957	13.750	14.150
MTBE	9.395	9.193	9.593
Toluene	18.861	18.657	19.057
Ethylbenzene	25.004	24.797	25.197
m,p-xylene	25.301	25.097	25.497
o-xylene	26.883	26.677	27.077
4-bromofluorobenzene	28.922	28.733	29.133

COMMENTS: _____

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2110094

Instrument ID: VGC6 Calibration Date: 10/23/01

Column: RTX-502.2 ID: 0.53 (mm) Calibration Time: 2322

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

COMPOUND	RT1	RT2	RT3	RT4	RT5
Benzene	14.537	14.543	14.557	14.577	14.590
MTBE	9.930	9.913	9.923	9.937	9.957
Toluene		19.707	19.710	19.737	19.763
Ethylbenzene	26.043	26.063	26.083	26.100	26.130
m,p-xylene	26.367	26.393	26.403	26.423	26.450
o-xylene	28.133	28.153	28.170	28.183	28.210
4-bromofluorobenzene		30.527	30.540	30.557	30.577

COMMENTS:

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2110094

Instrument ID: VGC6 Calibration Date: 10/23/01

Column: RTX-502.2 ID: 0.53 (mm) Calibration Time: 2322

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

COMPOUND	RT6	RT7	RT8	RT9	RT10
Benzene	14.597	14.600	14.600	14.590	14.583
MTBE	9.960	9.967	9.967	9.957	9.973
Toluene	19.773	19.783	19.780	19.770	19.757
Ethylbenzene	26.140	26.147	26.143	26.137	26.123
m,p-xylene	26.460	26.467	26.467	26.460	26.450
o-xylene	28.223	28.227	28.230	28.220	28.210
4-bromofluorobenzene	30.590	30.597	30.597	30.590	

COMMENTS:

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2110094

Instrument ID: VGC6 Calibration Date: 10/23/01

Column: RTX-502.2 ID: 0.53 (mm) Calibration Time: 2322

COMPOUND	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Benzene	14.577	14.337	14.737
MTBE	9.948	9.730	10.130
Toluene	19.753	19.470	19.870
Ethylbenzene	26.111	25.843	26.243
m,p-xylene	26.434	26.167	26.567
o-xylene	28.196	27.933	28.333
4-bromofluorobenzene	30.572	30.307	30.707

COMMENTS: _____

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2110094

Instrument ID: VGC6 Calibration Date: 10/24/01 Time: 1534

Lab File ID: CCV62 Init. Calib. Date: 10/23/01

Heated Purge: (Y/N) Y Init. Calib. Time: 2322

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

COMPOUND	$\overline{RRF}$	RRF30	MIN RRF	%D	MAX %D	
Benzene	1.96165	1.87179	N/A	4.6	15.0	
MTBE	0.71362	0.70790	N/A	0.8	15.0	
Toluene	1.84917	1.69751	N/A	8.2	15.0	
Ethylbenzene	1.76732	1.57562	N/A	10.8	15.0	
m,p-xylene	1.99044	1.73225	N/A	13.0	15.0	
o-xylene	1.57549	1.40812	N/A	10.6	15.0	
4-bromofluorobenzene	1.71886	1.41181	N/A	17.9	15.0	<- fjp

Average Used: 9.41275

FORM VII VOA

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2110094

Instrument ID: VGC6 Calibration Date: 10/25/01 Time: 0311

Lab File ID: CCV63 Init. Calib. Date: 10/23/01

Heated Purge: (Y/N) Y Init. Calib. Time: 2322

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

COMPOUND	$\overline{RRF}$	RRF30	MIN RRF	%D	MAX %D
Benzene	1.96165	1.98192	N/A	1.0	15.0
MTBE	0.71362	0.61212	N/A	14.2	15.0
Toluene	1.84917	1.79000	N/A	3.2	15.0
Ethylbenzene	1.76732	1.64279	N/A	7.0	15.0
m,p-xylene	1.99044	1.79151	N/A	10.0	15.0
o-xylene	1.57549	1.47243	N/A	6.5	15.0
4-bromofluorobenzene	1.71886	1.48327	N/A	13.7	15.0

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2110094

Instrument ID: VGC5 Calibration Date: 10/25/01 Time: 0824

Lab File ID: CCV51 Init. Calib. Date: 10/23/01

Heated Purge: (Y/N) N Init. Calib. Time: 0155

GC Column: RTX 502.2 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF30	MIN RRF	%D	MAX %D
Benzene	1.65777	1.79409	N/A	8.2	15.0
MTBE	0.61638	0.68247	N/A	10.7	15.0
Toluene	1.59807	1.67881	N/A	5.0	15.0
Ethylbenzene	1.52517	1.55490	N/A	1.9	15.0
m,p-xylene	1.73702	1.74650	N/A	0.5	15.0
o-xylene	1.33952	1.42519	N/A	6.4	15.0
4-bromofluorobenzene	1.76888	1.62480	N/A	8.1	15.0

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2110094

Instrument ID: VGC5 Calibration Date: 10/25/01 Time: 1857

Lab File ID: CCV53 Init. Calib. Date: 10/23/01

Heated Purge: (Y/N) N Init. Calib. Time: 0155

GC Column: RTX 502.2 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF30	MIN RRF	%D	MAX %D	
Benzene	1.65777	1.64189	N/A	1.0	15.0	
MTBE	0.61638	0.66924	N/A	8.6	15.0	
Toluene	1.59807	1.51184	N/A	5.4	15.0	
Ethylbenzene	1.52517	1.42494	N/A	6.6	15.0	
m,p-xylene	1.73702	1.57330	N/A	9.4	15.0	
o-xylene	1.33952	1.28445	N/A	4.1	15.0	
4-bromofluorobenzene	1.76888	1.49321	N/A	15.6	15.0	<-

Average Used: 7.23176

FORM VII VOA

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2110094

Instrument ID: VGC6 Calibration Date: 10/25/01 Time: 1018

Lab File ID: CCV61 Init. Calib. Date: 10/23/01

Heated Purge: (Y/N) Y Init. Calib. Time: 2322

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

COMPOUND	$\overline{RRF}$	RRF30	MIN RRF	%D	MAX %D	
Benzene	1.96165	2.07929	N/A	6.0	15.0	
MTBE	0.71362	0.59954	N/A	16.0	15.0	<-
Toluene	1.84917	1.89068	N/A	2.2	15.0	
Ethylbenzene	1.76732	1.78023	N/A	0.7	15.0	
m,p-xylene	1.99044	1.94462	N/A	2.3	15.0	
o-xylene	1.57549	1.55476	N/A	1.3	15.0	
4-bromofluorobenzene	1.71886	1.54622	N/A	10.0	15.0	

Average Used: 5.51715

FORM VII VOA

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2110094

Instrument ID: VGC6 Calibration Date: 10/25/01 Time: 2109

Lab File ID: CCV63 Init. Calib. Date: 10/23/01

Heated Purge: (Y/N) Y Init. Calib. Time: 2322

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

COMPOUND	$\overline{RRF}$	RRF30	MIN RRF	%D	MAX %D
Benzene	1.96165	2.08427	N/A	6.2	15.0
MTBE	0.71362	0.61501	N/A	13.8	15.0
Toluene	1.84917	1.88987	N/A	2.2	15.0
Ethylbenzene	1.76732	1.75698	N/A	0.6	15.0
m,p-xylene	1.99044	1.90755	N/A	4.2	15.0
o-xylene	1.57549	1.56500	N/A	0.7	15.0
4-bromofluorobenzene	1.71886	1.62772	N/A	5.3	15.0

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2110094

Instrument ID: VGC6 Calibration Date: 10/26/01 Time: 0601

Lab File ID: CCV65 Init. Calib. Date: 10/23/01

Heated Purge: (Y/N) Y Init. Calib. Time: 2322

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

COMPOUND	$\overline{RRF}$	RRF30	MIN RRF	%D	MAX %D	
Benzene	1.96165	2.04093	N/A	4.0	15.0	
MTBE	0.71362	0.59338	N/A	16.8	15.0	<-
Toluene	1.84917	1.84672	N/A	0.1	15.0	
Ethylbenzene	1.76732	1.76357	N/A	0.2	15.0	
m,p-xylene	1.99044	1.94526	N/A	2.3	15.0	
o-xylene	1.57549	1.57218	N/A	0.2	15.0	
4-bromofluorobenzene	1.71886	1.63096	N/A	5.1	15.0	

Average Used: 4.11847

FORM VII VOA

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2110094

Instrument ID: VGC6 Calibration Date: 10/29/01 Time: 1146

Lab File ID: CCV63 Init. Calib. Date: 10/23/01

Heated Purge: (Y/N) Y Init. Calib. Time: 2322

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

COMPOUND	$\overline{RRF}$	RRF30	MIN RRF	%D	MAX %D	
Benzene	1.96165	2.23690	N/A	14.0	15.0	
MTBE	0.71362	0.60607	N/A	15.1	15.0	<-
Toluene	1.84917	2.04413	N/A	10.5	15.0	
Ethylbenzene	1.76732	1.91906	N/A	8.6	15.0	
m,p-xylene	1.99044	2.10909	N/A	6.0	15.0	
o-xylene	1.57549	1.66733	N/A	5.8	15.0	
4-bromofluorobenzene	1.71886	1.60295	N/A	6.7	15.0	

Average Used: 9.53790

FORM VII VOA

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2110094

Instrument ID: VGC6 Calibration Date: 10/29/01 Time: 2223

Lab File ID: CCV65 Init. Calib. Date: 10/23/01

Heated Purge: (Y/N) Y Init. Calib. Time: 2322

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

COMPOUND	$\overline{RRF}$	RRF30	MIN RRF	%D	MAX %D	
Benzene	1.96165	2.04184	N/A	4.1	15.0	
MTBE	0.71362	0.57361	N/A	19.6	15.0	<-
Toluene	1.84917	1.84912	N/A	0.0	15.0	
Ethylbenzene	1.76732	1.73943	N/A	1.6	15.0	
m,p-xylene	1.99044	1.90183	N/A	4.4	15.0	
o-xylene	1.57549	1.54217	N/A	2.1	15.0	
4-bromofluorobenzene	1.71886	1.48336	N/A	13.7	15.0	

Average Used: 6.50800

FORM VII VOA

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2110094

Instrument ID: VGC6 Calibration Date: 10/30/01 Time: 0956

Lab File ID: CCV66 Init. Calib. Date: 10/23/01

Heated Purge: (Y/N) Y Init. Calib. Time: 2322

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

COMPOUND	$\overline{RRF}$	RRF30	MIN RRF	%D	MAX %D	
Benzene	1.96165	2.00180	N/A	2.0	15.0	
MTBE	0.71362	0.51466	N/A	27.9	15.0	<-
Toluene	1.84917	1.78773	N/A	3.3	15.0	
Ethylbenzene	1.76732	1.67854	N/A	5.0	15.0	
m,p-xylene	1.99044	1.87445	N/A	5.8	15.0	
o-xylene	1.57549	1.51927	N/A	3.6	15.0	
4-bromofluorobenzene	1.71886	1.55163	N/A	9.7	15.0	

Average Used: 8.19972

FORM VII VOA

HPLC PAH ORGANICS

METHOD 8310

CASE NARRATIVE
HPLC SEMIVOLATILE ORGANICS

PEL Lab Reference No./SDG: 2110094

Client: CH2MHILL

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 data 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-volatiles analysis.
Soil samples were prepared by SW846 EPA 3550 for 8310 semi-volatiles analysis.

V. ANALYSIS

A. Calibration:

All acceptance criteria were met.

Initial calibration criteria is stated in SW-846 EPA method 8310. All analytes have a maximum percent RSD of 20. As per SW-846 EPA method 8000; Section 7.5.1.2 and 7.5.1.2.1, if one or more of the analytes exceed the maximum percent RSD the average percent RSD may be used provided the average is less than or equal to 15. In those instances, the average will be calculated and cited on the calibration forms.

Calibration verification criteria is stated in SW-846 EPA method 8000. All analytes have a maximum percent D of 15. As per SW-846 EPA method 8000; Section 7.7, if one or more of the analytes exceed the maximum percent D the average percent D may be used provided the average is less than or equal to 15. In those instances, the average will be calculated and cited on the calibration forms.

B. Blanks:

There was one blank analyzed associated with the water samples and was non-detect for target parameters.
There was one blank analyzed associated with the soil samples and was non-detect for target parameters.

CASE NARRATIVE
HPLC SEMIVOLATILE ORGANICS

PEL Lab Reference No./SDG: 2110094

C. Surrogates:

All surrogate recoveries met acceptable criteria for the water samples.
All surrogate recoveries met acceptable criteria for the soil samples with the exception of Terphenyl-d14, which was above acceptable criteria for the following samples; 062B101S101801, 062B101S101801MS, 062B101S101801SD, 062B101S101801DL1, 062B101S101801DL1MS, 062B101S101801DL1SD, 062B167S101801, and 062B167S101801DL1. Upon review of these samples, exceedance of the surrogate criteria could be attributed to sample matrix interference.

D. Spikes:

Laboratory Control Spikes (LCS)

One LCS, 1001ALCS, was analyzed with the water samples where Naphthalene, 2-Methylnaphthalene, Acenaphthene, Dibenz(a,h) anthracene, Benzo(g,h,I)perylene, and Indeno(1,2,3-cd)pyrene were below acceptable criteria were met based on project specific limits. All quality control limits would have met PEL in house limits; therefore no further action was taken.
One LCS, 1025SLCS, was analyzed with the soil samples where all criteria were met based on project specific limits.

Matrix Spike/Matrix Spike Duplicate Samples (MS/SD)

One reagent MS/SD set was analyzed with the water samples, which met all criteria for relative percent difference, however eighteen out of 36 analytes did not meet criteria based on project specific limits. All criteria would have met PEL in house historical limits, therefore no further action was taken.
One MS/SD set was analyzed with the soils samples on sample 062B101S101801, where all criteria were met for relative percent difference, however seventeen out of 36 analytes did not meet criteria for percent recovery based on project specific limits. This sample was also analyzed at a dilution due to over-calibration hits of several compounds. In this MS/SD set, all criteria were met for relative percent difference and fifteen out of 36 analytes did not meet criteria for percent recovery based on project specific limits. Please refer to the appropriate form III's for a complete listing of analytes that did not meet criteria. After review of the MS/SD set, there was a definite sample matrix effect in the sample.
One reagent MS/SD set was analyzed with the soil samples, where all criteria were met based on project specific limits.

E. Internal standards:

All internal standard criteria were met for the water samples.
All internal standard criteria were met for the soil samples.

CASE NARRATIVE
HPLC SEMIVOLATILE ORGANICS

PEL Lab Reference No./SDG: 2110094

F. Samples:

Sample analysis proceeded normally. Sample 062B101S101801 was analyzed full and at a one to two dilution due to over-calibration hits of several analytes. Both the full analysis and the dilution are reported. Sample 062B167S101801 was analyzed at a one to ten dilution and at a one to fifty dilution due to sample matrix and over-calibration hits of several analytes. A full analysis was attempted on this sample, however sample matrix prevented the laboratory to report this analysis.

The following analytes were quantified by the VWD detector: Acenaphthylene, Acenaphthene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(g,h,i)perylene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Chrysene, Dibenz(a,h)anthracene, Fluoranthene, Fluorene, Indeno(1,2,3-cd)pyrene, 1-Methyl Naphthalene, 2 -Methyl Naphthalene, Naphthalene, Phenanthrene, Pyrene, and Terphenyl-d14.

The following analytes were quantified by the ADC detector: Anthracene.

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: Lara Keene DATE: 11/6/01
Lara Keene

PAH ORGANIC CROSS REFERENCE TABLE

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

Lab Code: PEL Case No. SAS No: SDG No.: 2110094

Method: 8310

EPA Sample No	Lab Sample ID
062B7S101801	211009401
062B31S101801	211009402
062B41S101801	211009403
062B70S101801	211009404
062B96S101801	211009405
062B99S101801	211009406
062B101S101801	211009407
062B101S101801DL	211009407DL1
062B104S101801	211009410
062B106S101801	211009411
062B110S101801	211009412
062B137S101801	211009413
062B146S101801	211009414
062B158S101801	211009415
062B167S101801	211009416
062B167S101801DL1	211009416DL1
062B189S101801	211009417
062DUP1S101801	211009418
062DUP2S101801	211009419
062EB1W101801	211009420

Sample Data

1

PAH ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062B7S101801

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

Lab Code: PEL Case No. SAS No: SDG No.: 2110094

Matrix: SOIL Lab Sample ID 211009401 Lab File ID 94-01.D

Sample wt/vol: 32.7 Units: G Date Received: 10/19/01

Concentrated Extract Volume: 1 Date Extracted: 10/25/01

Level:(low/med) LOW Date Analyzed: 10/29/01 Time: 0309

PercentSolids: 85 decanted: Dilution Factor: 1

Extraction: SONC Station ID B-7 @ 2ft Method: 8310

GPC Cleanup: (Y/N) N pH:

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

CONCENTRATION UNITS: ug/Kg

CAS NO.	ANALYTE	RESULT	Q
91-20-3	Naphthalene	597	U
208-96-8	Acenaphthylene	60	U
90-12-0	1-Methylnaphthalene	60	U
91-57-6	2-Methylnaphthalene	60	U
83-32-9	Acenaphthene	60	U
86-73-7	Fluorene	60	U
85-01-8	Phenanthrene	60	U
120-12-7	Anthracene	60	U
206-44-0	Fluoranthene	60	U
129-00-0	Pyrene	60	U
56-55-3	Benzo(a)anthracene	60	U
218-01-9	Chrysene	60	U
205-99-2	Benzo(b)fluoranthene	60	U
207-08-9	Benzo(k)fluoranthene	60	U
50-32-8	Benzo(a)pyrene	60	U
53-70-3	Dibenz(a,h)anthracene	60	U
191-24-2	Benzo(g,h,i)perylene	60	U
193-39-5	Indeno(1,2,3-cd)pyrene	60	U

1

PAH ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062B31S101801

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

Lab Code: PEL Case No. SAS No: SDG No.: 2110094

Matrix: SOIL Lab Sample ID 211009402 Lab File ID 94-02.D

Sample wt/vol: 32.9 Units: G Date Received: 10/19/01

Concentrated Extract Volume: 1 Date Extracted: 10/25/01

Level:(low/med) LOW Date Analyzed: 10/29/01 Time: 0418

PercentSolids: 83 decanted : Dilution Factor: 1

Extraction: SONC Station ID B-31 @ 3 ft Method: 8310

GPC Cleanup : (Y/N) N pH:

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

CONCENTRATION UNITS: ug/Kg

CAS NO.	ANALYTE	RESULT	Q
91-20-3	Naphthalene	604	U
208-96-8	Acenaphthylene	60	U
90-12-0	1-Methylnaphthalene	60	U
91-57-6	2-Methylnaphthalene	60	U
83-32-9	Acenaphthene	60	U
86-73-7	Fluorene	60	U
85-01-8	Phenanthrene	60	U
120-12-7	Anthracene	60	U
206-44-0	Fluoranthene	60	U
129-00-0	Pyrene	60	U
56-55-3	Benzo(a)anthracene	60	U
218-01-9	Chrysene	60	U
205-99-2	Benzo(b)fluoranthene	60	U
207-08-9	Benzo(k)fluoranthene	60	U
50-32-8	Benzo(a)pyrene	60	U
53-70-3	Dibenz(a,h)anthracene	60	U
191-24-2	Benzo(g,h,i)perylene	10	J
193-39-5	Indeno(1,2,3-cd)pyrene	60	U

PAH ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062B41S101801

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

Lab Code: PEL Case No. SAS No: SDG No.: 2110094

Matrix: SOIL Lab Sample ID: 211009403 Lab File ID: 94-03.D

Sample wt/vol: 32.9 Units: G Date Received: 10/19/01

Concentrated Extract Volume: 1 Date Extracted: 10/25/01

Level:(low/med) LOW Date Analyzed: 10/29/01 Time: 0453

PercentSolids: 87 decanted: Dilution Factor: 1

Extraction: SONC Station ID B-41 @ 4ft Method: 8310

GPC Cleanup: (Y/N) N pH:

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

CONCENTRATION UNITS: ug/Kg

CAS NO.	ANALYTE	RESULT	Q
91-20-3	Naphthalene	579	U
208-96-8	Acenaphthylene	58	U
90-12-0	1-Methylnaphthalene	58	U
91-57-6	2-Methylnaphthalene	58	U
83-32-9	Acenaphthene	58	U
86-73-7	Fluorene	58	U
85-01-8	Phenanthrene	58	U
120-12-7	Anthracene	58	U
206-44-0	Fluoranthene	58	U
129-00-0	Pyrene	58	U
56-55-3	Benzo(a)anthracene	58	U
218-01-9	Chrysene	58	U
205-99-2	Benzo(b)fluoranthene	58	U
207-08-9	Benzo(k)fluoranthene	58	U
50-32-8	Benzo(a)pyrene	58	U
53-70-3	Dibenz(a,h)anthracene	58	U
191-24-2	Benzo(g,h,i)perylene	58	U
193-39-5	Indeno(1,2,3-cd)pyrene	58	U

PAH ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062B70S101801

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

Lab Code: PEL Case No. SAS No: SDG No.: 2110094

Matrix: SOIL Lab Sample ID: 211009404 Lab File ID: 94-04.D

Sample wt/vol: 32.8 Units: G Date Received: 10/19/01

Concentrated Extract Volume: 1 Date Extracted: 10/25/01

Level:(low/med) LOW Date Analyzed: 10/29/01 Time: 0527

PercentSolids: 89 decanted: Dilution Factor: 1

Extraction: SONC Station ID B-70 @ 4ft Method: 8310

GPC Cleanup: (Y/N) N pH:

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

CONCENTRATION UNITS: ug/Kg

CAS NO.	ANALYTE	RESULT	Q
91-20-3	Naphthalene	565	U
208-96-8	Acenaphthylene	56	U
90-12-0	1-Methylnaphthalene	56	U
91-57-6	2-Methylnaphthalene	35	J
83-32-9	Acenaphthene	56	U
86-73-7	Fluorene	56	U
85-01-8	Phenanthrene	4.9	J
120-12-7	Anthracene	56	U
206-44-0	Fluoranthene	56	U
129-00-0	Pyrene	5.7	J
56-55-3	Benzo(a)anthracene	5.3	J
218-01-9	Chrysene	8	J
205-99-2	Benzo(b)fluoranthene	15	J
207-08-9	Benzo(k)fluoranthene	56	U
50-32-8	Benzo(a)pyrene	6.9	J
53-70-3	Dibenz(a,h)anthracene	56	U
191-24-2	Benzo(g,h,i)perylene	16	J
193-39-5	Indeno(1,2,3-cd)pyrene	9.5	J

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PAH ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062B96S101801

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

Lab Code: PEL Case No. SAS No: SDG No.: 2110094

Matrix: SOIL Lab Sample ID 211009405 Lab File ID 94-05.D

Sample wt/vol: 33 Units: G Date Received: 10/19/01

Concentrated Extract Volume: 1 Date Extracted: 10/25/01

Level:(low/med) LOW Date Analyzed: 10/29/01 Time: 0602

PercentSolids: 89 decanted : Dilution Factor: 1

Extraction: SONC Station ID B-96 @ 4ft Method: 8310

GPC Cleanup : (Y/N) N pH:

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

CONCENTRATION UNITS: ug/Kg

CAS NO.	ANALYTE	RESULT	Q
91-20-3	Naphthalene	562	U
208-96-8	Acenaphthylene	56	U
90-12-0	1-Methylnaphthalene	56	U
91-57-6	2-Methylnaphthalene	56	U
83-32-9	Acenaphthene	56	U
86-73-7	Fluorene	56	U
85-01-8	Phenanthrene	56	U
120-12-7	Anthracene	56	U
206-44-0	Fluoranthene	21	J
129-00-0	Pyrene	128	
56-55-3	Benzo(a)anthracene	16	J
218-01-9	Chrysene	18	J
205-99-2	Benzo(b)fluoranthene	33	J
207-08-9	Benzo(k)fluoranthene	15	J
50-32-8	Benzo(a)pyrene	56	U
53-70-3	Dibenz(a,h)anthracene	56	U
191-24-2	Benzo(g,h,i)perylene	16	J
193-39-5	Indeno(1,2,3-cd)pyrene	14	J

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PAH ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062B99S101801

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

Lab Code: PEL Case No. SAS No: SDG No.: 2110094

Matrix: SOIL Lab Sample ID 211009406 Lab File ID 94-06.D

Sample wt/vol: 32.6 Units: G Date Received: 10/19/01

Concentrated Extract Volume: 1 Date Extracted: 10/25/01

Level:(low/med) LOW Date Analyzed: 10/29/01 Time: 0636

PercentSolids: 85 decanted : Dilution Factor: 1

Extraction: SONC Station ID B-99 @ 4ft Method: 8310

GPC Cleanup : (Y/N) N pH:

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

CONCENTRATION UNITS: ug/Kg

CAS NO.	ANALYTE	RESULT	Q
91-20-3	Naphthalene	593	U
208-96-8	Acenaphthylene	59	U
90-12-0	1-Methylnaphthalene	59	U
91-57-6	2-Methylnaphthalene	59	U
83-32-9	Acenaphthene	59	U
86-73-7	Fluorene	59	U
85-01-8	Phenanthrene	24	J
120-12-7	Anthracene	59	U
206-44-0	Fluoranthene	46	J
129-00-0	Pyrene	15	J
56-55-3	Benzo(a)anthracene	27	J
218-01-9	Chrysene	40	J
205-99-2	Benzo(b)fluoranthene	40	J
207-08-9	Benzo(k)fluoranthene	17	J
50-32-8	Benzo(a)pyrene	32	J
53-70-3	Dibenz(a,h)anthracene	59	U
191-24-2	Benzo(g,h,i)perylene	29	J
193-39-5	Indeno(1,2,3-cd)pyrene	24	J

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PAH ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062B101S101801

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

Lab Code: PEL Case No. SAS No: SDG No.: 2110094

Matrix: SOIL Lab Sample ID 211009407 Lab File ID 94-7.D

Sample wt/vol: 32.4 Units: G Date Received: 10/19/01

Concentrated Extract Volume: 1 Date Extracted: 10/25/01

Level:(low/med) LOW Date Analyzed: 10/29/01 Time: 1053

PercentSolids: 69 decanted : Dilution Factor: 1

Extraction: SONC Station ID B-101 @ 4ft Method: 8310

GPC Cleanup : (Y/N) N pH:

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

CONCENTRATION UNITS: ug/Kg

CAS NO.	ANALYTE	RESULT	Q
91-20-3	Naphthalene	572	U
208-96-8	Acenaphthylene	1460	E
90-12-0	1-Methylnaphthalene	206	
91-57-6	2-Methylnaphthalene	1090	
83-32-9	Acenaphthene	170	
86-73-7	Fluorene	321	
85-01-8	Phenanthrene	912	
120-12-7	Anthracene	57	U
206-44-0	Fluoranthene	1600	E
129-00-0	Pyrene	201	
56-55-3	Benzo(a)anthracene	57	U
218-01-9	Chrysene	1140	
205-99-2	Benzo(b)fluoranthene	57	U
207-08-9	Benzo(k)fluoranthene	57	U
50-32-8	Benzo(a)pyrene	57	U
53-70-3	Dibenz(a,h)anthracene	57	U
191-24-2	Benzo(g,h,i)perylene	57	U
193-39-5	Indeno(1,2,3-cd)pyrene	57	U

PAH ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062B101S101801DL

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

Lab Code: PEL Case No. SAS No: SDG No.: 2110094

Matrix: SOIL Lab Sample ID 211009407DL1 Lab File ID 94-7D2.D

Sample wt/vol: 32.4 Units: G Date Received: 10/19/01

Concentrated Extract Volume: 1 Date Extracted: 10/25/01

Level:(low/med) LOW Date Analyzed: 10/29/01 Time: 1410

PercentSolids: 89 decanted : Dilution Factor: 2

Extraction: SONC Station ID B-101 @ 4ft Method: 8310

GPC Cleanup : (Y/N) N pH:

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

CONCENTRATION UNITS: ug/Kg

CAS NO.	ANALYTE	RESULT	Q
91-20-3	Naphthalene	1140	U
208-96-8	Acenaphthylene	1250	
90-12-0	1-Methylnaphthalene	257	
91-57-6	2-Methylnaphthalene	1410	
83-32-9	Acenaphthene	181	
86-73-7	Fluorene	295	
85-01-8	Phenanthrene	804	
120-12-7	Anthracene	114	U
206-44-0	Fluoranthene	1840	
129-00-0	Pyrene	201	
56-55-3	Benzo(a)anthracene	114	U
218-01-9	Chrysene	1260	
205-99-2	Benzo(b)fluoranthene	114	U
207-08-9	Benzo(k)fluoranthene	114	U
50-32-8	Benzo(a)pyrene	114	U
53-70-3	Dibenz(a,h)anthracene	114	U
191-24-2	Benzo(g,h,i)perylene	114	U
193-39-5	Indeno(1,2,3-cd)pyrene	114	U

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PAH ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062B104S101801

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

Lab Code: PEL Case No. SAS No: SDG No.: 2110094

Matrix: SOIL Lab Sample ID 211009410 Lab File ID 94-10.D

Sample wt/vol: 32.6 Units: G Date Received: 10/19/01

Concentrated Extract Volume: 1 Date Extracted: 10/25/01

Level:(low/med) LOW Date Analyzed: 10/29/01 Time: 1254

PercentSolids: 89 decanted : Dilution Factor: 1

Extraction: SONC Station ID B-104 @ 4ft Method: 8310

GPC Cleanup : (Y/N) N pH:

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

CONCENTRATION UNITS: ug/Kg

CAS NO.	ANALYTE	RESULT	Q
91-20-3	Naphthalene	569	U
208-96-8	Acenaphthylene	57	U
90-12-0	1-Methylnaphthalene	57	U
91-57-6	2-Methylnaphthalene	57	U
83-32-9	Acenaphthene	57	U
86-73-7	Fluorene	57	U
85-01-8	Phenanthrene	57	U
120-12-7	Anthracene	57	U
206-44-0	Fluoranthene	4.9	J
129-00-0	Pyrene	14	J
56-55-3	Benzo(a)anthracene	57	U
218-01-9	Chrysene	57	U
205-99-2	Benzo(b)fluoranthene	11	J
207-08-9	Benzo(k)fluoranthene	57	U
50-32-8	Benzo(a)pyrene	57	U
53-70-3	Dibenz(a,h)anthracene	57	U
191-24-2	Benzo(g,h,i)perylene	4.1	J
193-39-5	Indeno(1,2,3-cd)pyrene	57	U

PAH ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062B106S101801

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

Lab Code: PEL Case No. SAS No: SDG No.: 2110094

Matrix: SOIL Lab Sample ID 211009411 Lab File ID 94-11.D

Sample wt/vol: 33 Units: G Date Received: 10/19/01

Concentrated Extract Volume: 1 Date Extracted: 10/25/01

Level:(low/med) LOW Date Analyzed: 10/28/01 Time: 2135

PercentSolids: 91 decanted : Dilution Factor: 1

Extraction: SONC Station ID B-106 @ 4ft Method: 8310

GPC Cleanup : (Y/N) N pH:

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

CONCENTRATION UNITS: ug/Kg

CAS NO.	ANALYTE	RESULT	Q
91-20-3	Naphthalene	550	U
208-96-8	Acenaphthylene	55	U
90-12-0	1-Methylnaphthalene	55	U
91-57-6	2-Methylnaphthalene	55	U
83-32-9	Acenaphthene	55	U
86-73-7	Fluorene	55	U
85-01-8	Phenanthrene	23	J
120-12-7	Anthracene	55	U
206-44-0	Fluoranthene	55	U
129-00-0	Pyrene	19	J
56-55-3	Benzo(a)anthracene	23	J
218-01-9	Chrysene	34	J
205-99-2	Benzo(b)fluoranthene	37	J
207-08-9	Benzo(k)fluoranthene	55	U
50-32-8	Benzo(a)pyrene	40	J
53-70-3	Dibenz(a,h)anthracene	55	U
191-24-2	Benzo(g,h,i)perylene	40	J
193-39-5	Indeno(1,2,3-cd)pyrene	38	J

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PAH ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062B110S101801

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

Lab Code : PEL Case No. SAS No: SDG No.: 2110094

Matrix: SOIL Lab Sample ID 211009412 Lab File ID 94-12.D

Sample wt/vol: 32.8 Units: G Date Received: 10/19/01

Concentrated Extract Volume: 1 Date Extracted: 10/25/01

Level:(low/med) LOW Date Analyzed: 10/28/01 Time: 2210

PercentSolids: 87 decanted : Dilution Factor: 1

Extraction: SONC Station ID B-110 @ 4ft Method: 8310

GPC Cleanup : (Y/N) N pH:

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

CONCENTRATION UNITS: ug/Kg

CAS NO.	ANALYTE	RESULT	Q
91-20-3	Naphthalene	575	U
208-96-8	Acenaphthylene	57	U
90-12-0	1-Methylnaphthalene	57	U
91-57-6	2-Methylnaphthalene	57	U
83-32-9	Acenaphthene	57	U
86-73-7	Fluorene	57	U
85-01-8	Phenanthrene	57	U
120-12-7	Anthracene	57	U
206-44-0	Fluoranthene	57	U
129-00-0	Pyrene	57	U
56-55-3	Benzo(a)anthracene	57	U
218-01-9	Chrysene	57	U
205-99-2	Benzo(b)fluoranthene	57	U
207-08-9	Benzo(k)fluoranthene	57	U
50-32-8	Benzo(a)pyrene	57	U
53-70-3	Dibenz(a,h)anthracene	57	U
191-24-2	Benzo(g,h,i)perylene	57	U
193-39-5	Indeno(1,2,3-cd)pyrene	57	U

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PAH ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062B137S101801

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

Lab Code: PEL Case No. SAS No: SDG No.: 2110094

Matrix: SOIL Lab Sample ID 211009413 Lab File ID 94-13.D

Sample wt/vol: 32.9 Units: G Date Received: 10/19/01

Concentrated Extract Volume: 1 Date Extracted: 10/25/01

Level:(low/med) LOW Date Analyzed: 10/28/01 Time: 2245

PercentSolids: 89 decanted: Dilution Factor: 1

Extraction: SONC Station ID B-137 @ 2ft Method: 8310

GPC Cleanup: (Y/N) N pH:

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

CONCENTRATION UNITS: ug/Kg

CAS NO.	ANALYTE	RESULT	Q
91-20-3	Naphthalene	563	U
208-96-8	Acenaphthylene	56	U
90-12-0	1-Methylnaphthalene	56	U
91-57-6	2-Methylnaphthalene	56	U
83-32-9	Acenaphthene	56	U
86-73-7	Fluorene	56	U
85-01-8	Phenanthrene	56	U
120-12-7	Anthracene	56	U
206-44-0	Fluoranthene	56	U
129-00-0	Pyrene	56	U
56-55-3	Benzo(a)anthracene	56	U
218-01-9	Chrysene	56	U
205-99-2	Benzo(b)fluoranthene	56	U
207-08-9	Benzo(k)fluoranthene	56	U
50-32-8	Benzo(a)pyrene	56	U
53-70-3	Dibenz(a,h)anthracene	56	U
191-24-2	Benzo(g,h,i)perylene	56	U
193-39-5	Indeno(1,2,3-cd)pyrene	56	U

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PAH ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062B146S101801

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

Lab Code: PEL Case No. SAS No: SDG No.: 2110094

Matrix: SOIL Lab Sample ID 211009414 Lab File ID 94-14.D

Sample wt/vol: 32.7 Units: G Date Received: 10/19/01

Concentrated Extract Volume: 1 Date Extracted: 10/25/01

Level:(low/med) LOW Date Analyzed: 10/28/01 Time: 2319

PercentSolids: 93 decanted : Dilution Factor: 1

Extraction: SONC Station ID B-146 @ 4ft Method: 8310

GPC Cleanup : (Y/N) N pH:

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

CONCENTRATION UNITS: ug/Kg

CAS NO.	ANALYTE	RESULT	Q
91-20-3	Naphthalene	541	U
208-96-8	Acenaphthylene	54	U
90-12-0	1-Methylnaphthalene	54	U
91-57-6	2-Methylnaphthalene	54	U
83-32-9	Acenaphthene	54	U
86-73-7	Fluorene	12	J
85-01-8	Phenanthrene	54	U
120-12-7	Anthracene	54	U
206-44-0	Fluoranthene	185	
129-00-0	Pyrene	29	J
56-55-3	Benzo(a)anthracene	54	U
218-01-9	Chrysene	184	
205-99-2	Benzo(b)fluoranthene	9.9	J
207-08-9	Benzo(k)fluoranthene	17	J
50-32-8	Benzo(a)pyrene	5.9	J
53-70-3	Dibenz(a,h)anthracene	54	U
191-24-2	Benzo(g,h,i)perylene	54	U
193-39-5	Indeno(1,2,3-cd)pyrene	9.2	J

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PAH ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062B158S101801

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

Lab Code: PEL Case No. SAS No: SDG No.: 2110094

Matrix: SOIL Lab Sample ID 211009415 Lab File ID 94-15.D

Sample wt/vol: 32.9 Units: G Date Received: 10/19/01

Concentrated Extract Volume: 1 Date Extracted: 10/25/01

Level:(low/med) LOW Date Analyzed: 10/28/01 Time: 2354

PercentSolids: 84 decanted: Dilution Factor: 1

Extraction: SONC Station ID B-158 @ 4ft Method: 8310

GPC Cleanup: (Y/N) N pH:

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

CONCENTRATION UNITS: ug/Kg

CAS NO.	ANALYTE	RESULT	Q
91-20-3	Naphthalene	596	U
208-96-8	Acenaphthylene	60	U
90-12-0	1-Methylnaphthalene	60	U
91-57-6	2-Methylnaphthalene	60	U
83-32-9	Acenaphthene	60	U
86-73-7	Fluorene	60	U
85-01-8	Phenanthrene	60	U
120-12-7	Anthracene	60	U
206-44-0	Fluoranthene	60	U
129-00-0	Pyrene	60	U
56-55-3	Benzo(a)anthracene	60	U
218-01-9	Chrysene	60	U
205-99-2	Benzo(b)fluoranthene	60	U
207-08-9	Benzo(k)fluoranthene	60	U
50-32-8	Benzo(a)pyrene	60	U
53-70-3	Dibenz(a,h)anthracene	60	U
191-24-2	Benzo(g,h,l)perylene	60	U
193-39-5	Indeno(1,2,3-cd)pyrene	60	U

PAH ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062B167S101801

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

Lab Code: PEL Case No. SAS No: SDG No.: 2110094

Matrix: SOIL Lab Sample ID: 211009416 Lab File ID: 94-16D10.D

Sample wt/vol: 33 Units: G Date Received: 10/19/01

Concentrated Extract Volume: 1 Date Extracted: 10/25/01

Level:(low/med) LOW Date Analyzed: 10/29/01 Time: 1559

PercentSolids: 87 decanted : Dilution Factor: 10

Extraction: SONC Station ID B-167 @ 4ft Method: 8310

GPC Cleanup : (Y/N) N pH:

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

CONCENTRATION UNITS: ug/Kg

CAS NO.	ANALYTE	RESULT	Q
91-20-3	Naphthalene	10300	
208-96-8	Acenaphthylene	573	U
90-12-0	1-Methylnaphthalene	21200	E
91-57-6	2-Methylnaphthalene	23400	E
83-32-9	Acenaphthene	188	J
86-73-7	Fluorene	1710	
85-01-8	Phenanthrene	2370	
120-12-7	Anthracene	573	U
206-44-0	Fluoranthene	2070	
129-00-0	Pyrene	573	U
56-55-3	Benzo(a)anthracene	573	U
218-01-9	Chrysene	351	J
205-99-2	Benzo(b)fluoranthene	573	U
207-08-9	Benzo(k)fluoranthene	573	U
50-32-8	Benzo(a)pyrene	573	U
53-70-3	Dibenz(a,h)anthracene	573	U
191-24-2	Benzo(g,h,i)perylene	573	U
193-39-5	Indeno(1,2,3-cd)pyrene	573	U

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PAH ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062B167S101801DL1

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

Lab Code: PEL Case No. SAS No: SDG No.: 2110094

Matrix: SOIL Lab Sample ID 211009416DL1 Lab File ID 94-16D50.D

Sample wt/vol: 33 Units: G Date Received: 10/19/01

Concentrated Extract Volume: 1 Date Extracted: 10/25/01

Level:(low/med) LOW Date Analyzed: 10/29/01 Time: 1329

PercentSolids: 87 decanted : Dilution Factor: 50

Extraction: SONC Station ID B-167 @ 4ft Method: 8310

GPC Cleanup : (Y/N) N pH:

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

CONCENTRATION UNITS: ug/Kg

CAS NO.	ANALYTE	RESULT	Q
91-20-3	Naphthalene	10700	J
208-96-8	Acenaphthylene	2870	U
90-12-0	1-Methylnaphthalene	22300	
91-57-6	2-Methylnaphthalene	26300	
83-32-9	Acenaphthene	174	J
86-73-7	Fluorene	1490	J
85-01-8	Phenanthrene	2160	J
120-12-7	Anthracene	2870	U
206-44-0	Fluoranthene	1990	J
129-00-0	Pyrene	2870	U
56-55-3	Benzo(a)anthracene	2870	U
218-01-9	Chrysene	377	J
205-99-2	Benzo(b)fluoranthene	2870	U
207-08-9	Benzo(k)fluoranthene	2870	U
50-32-8	Benzo(a)pyrene	2870	U
53-70-3	Dibenz(a,h)anthracene	2870	U
191-24-2	Benzo(g,h,i)perylene	2870	U
193-39-5	Indeno(1,2,3-cd)pyrene	2870	U

1

PAH ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062B189S101801

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

Lab Code : PEL Case No. SAS No: SDG No.: 2110094

Matrix: SOIL Lab Sample ID 211009417 Lab File ID 94-17.D

Sample wt/vol: 32.7 Units: G Date Received: 10/19/01

Concentrated Extract Volume: 1 Date Extracted: 10/25/01

Level:(low/med) LOW Date Analyzed: 10/29/01 Time: 0125

PercentSolids: 89 decanted : Dilution Factor: 1

Extraction: SONC Station ID B-189 @ 4ft Method: 8310

GPC Cleanup : (Y/N) N pH:

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

CONCENTRATION UNITS: ug/Kg

CAS NO.	ANALYTE	RESULT	Q
91-20-3	Naphthalene	570	U
208-96-8	Acenaphthylene	57	U
90-12-0	1-Methylnaphthalene	57	U
91-57-6	2-Methylnaphthalene	13	J
83-32-9	Acenaphthene	57	U
86-73-7	Fluorene	57	U
85-01-8	Phenanthrene	57	U
120-12-7	Anthracene	57	U
206-44-0	Fluoranthene	57	U
129-00-0	Pyrene	57	U
56-55-3	Benzo(a)anthracene	57	U
218-01-9	Chrysene	57	U
205-99-2	Benzo(b)fluoranthene	57	U
207-08-9	Benzo(k)fluoranthene	57	U
50-32-8	Benzo(a)pyrene	57	U
53-70-3	Dibenz(a,h)anthracene	57	U
191-24-2	Benzo(g,h,i)perylene	57	U
193-39-5	Indeno(1,2,3-cd)pyrene	57	U

1

PAH ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062DUP1S101801

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

Lab Code: PEL Case No. SAS No: SDG No.: 2110094

Matrix: SOIL Lab Sample ID 211009418 Lab File ID 94-18.D

Sample wt/vol: 32.6 Units: G Date Received: 10/19/01

Concentrated Extract Volume: 1 Date Extracted: 10/25/01

Level:(low/med) LOW Date Analyzed: 10/29/01 Time: 0200

PercentSolids: 89 decanted : Dilution Factor: 1

Extraction: SONC Station ID Duplicate #1 Method: 8310

GPC Cleanup : (Y/N) N pH:

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

CONCENTRATION UNITS: ug/Kg

CAS NO.	ANALYTE	RESULT	Q
91-20-3	Naphthalene	566	U
208-96-8	Acenaphthylene	56	U
90-12-0	1-Methylnaphthalene	56	U
91-57-6	2-Methylnaphthalene	85	
83-32-9	Acenaphthene	399	
86-73-7	Fluorene	56	U
85-01-8	Phenanthrene	87	
120-12-7	Anthracene	56	U
206-44-0	Fluoranthene	209	
129-00-0	Pyrene	112	
56-55-3	Benzo(a)anthracene	52	J
218-01-9	Chrysene	102	
205-99-2	Benzo(b)fluoranthene	82	
207-08-9	Benzo(k)fluoranthene	39	J
50-32-8	Benzo(a)pyrene	83	
53-70-3	Dibenz(a,h)anthracene	18	J
191-24-2	Benzo(g,h,i)perylene	73	
193-39-5	Indeno(1,2,3-cd)pyrene	75	

1

PAH ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062DUP2S101801

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

Lab Code: PEL Case No. SAS No: SDG No.: 2110094

Matrix: SOIL Lab Sample ID 211009419 Lab File ID 94-19.D

Sample wt/vol: 32.7 Units: G Date Received: 10/19/01

Concentrated Extract Volume: 1 Date Extracted: 10/25/01

Level:(low/med) LOW Date Analyzed: 10/29/01 Time: 0234

PercentSolids: 86 decanted : Dilution Factor: 1

Extraction: SONC Station ID Duplicate #2 Method: 8310

GPC Cleanup : (Y/N) N pH:

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

CONCENTRATION UNITS: ug/Kg

CAS NO.	ANALYTE	RESULT	Q
91-20-3	Naphthalene	12	J
208-96-8	Acenaphthylene	8.4	J
90-12-0	1-Methylnaphthalene	59	U
91-57-6	2-Methylnaphthalene	35	J
83-32-9	Acenaphthene	22	J
86-73-7	Fluorene	59	U
85-01-8	Phenanthrene	59	U
120-12-7	Anthracene	59	U
206-44-0	Fluoranthene	59	U
129-00-0	Pyrene	59	U
56-55-3	Benzo(a)anthracene	59	U
218-01-9	Chrysene	59	U
205-99-2	Benzo(b)fluoranthene	59	U
207-08-9	Benzo(k)fluoranthene	59	U
50-32-8	Benzo(a)pyrene	7.3	J
53-70-3	Dibenz(a,h)anthracene	59	U
191-24-2	Benzo(g,h,i)perylene	13	J
193-39-5	Indeno(1,2,3-cd)pyrene	59	U

1

PAH ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062EB1W101801

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

Lab Code : PEL Case No. SAS No: SDG No.: 2110094

Matrix: WATER Lab Sample ID 211009420 Lab File ID 094-20.D

Sample wt/vol: 1000 Units: ML Date Received: 10/19/01

Concentrated Extract Volume: 1 Date Extracted: 10/24/01

Level:(low/med) LOW Date Analyzed: 10/24/01 Time: 2150

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	0.2	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	0.21	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

QC Summary

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PAH ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: BLKA1

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

Lab Code: PEL Case No. SAS No: SDG No.: 2110094

Matrix: WATER Lab Sample ID: 51236 Lab File ID: BLKA1.D

Sample wt/vol: 1000 Units: ML Date Received: 10/24/01

Concentrated Extract Volume: 1 Date Extracted: 10/24/01

Level:(low/med) LOW Date Analyzed: 10/24/01 Time: 1857

PercentSolids: 0 decanted: Dilution Factor: 1

Extraction: SEPF Station ID: QC 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	0.21	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

1

PAH ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 1025SBLK

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

Lab Code: PEL Case No. SAS No: SDG No.: 2110094

Matrix: SOIL Lab Sample ID: 51553 Lab File ID: 1025AB.D

Sample wt/vol: 32.6 Units: G Date Received: 10/25/01

Concentrated Extract Volume: 1 Date Extracted: 10/25/01

Level:(low/med) LOW Date Analyzed: 10/29/01 Time: 0711

PercentSolids: 100 decanted: Dilution Factor: 1

Extraction: SONC Station ID: QC Method: 8310

GPC Cleanup: (Y/N) N pH:

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

CONCENTRATION UNITS: ug/Kg

CAS NO.	ANALYTE	RESULT	Q
91-20-3	Naphthalene	506	U
208-96-8	Acenaphthylene	51	U
90-12-0	1-Methylnaphthalene	51	U
91-57-6	2-Methylnaphthalene	51	U
83-32-9	Acenaphthene	51	U
86-73-7	Fluorene	51	U
85-01-8	Phenanthrene	51	U
120-12-7	Anthracene	51	U
206-44-0	Fluoranthene	51	U
129-00-0	Pyrene	51	U
56-55-3	Benzo(a)anthracene	51	U
218-01-9	Chrysene	51	U
205-99-2	Benzo(b)fluoranthene	51	U
207-08-9	Benzo(k)fluoranthene	51	U
50-32-8	Benzo(a)pyrene	51	U
53-70-3	Dibenz(a,h)anthracene	51	U
191-24-2	Benzo(g,h,i)perylene	51	U
193-39-5	Indeno(1,2,3-cd)pyrene	51	U

4

PAH ORGANIC METHOD BLANK SUMMARY

EPA Sample No.: 1025SBLK

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

Lab Code: PEL Case No. SAS No: SDG No.: 2110094

Lab File ID: 1025AB.D Lab Sample ID: 51553

Instrument ID: slc02 Date Extracted: 10/25/01

Matrix: SOIL Date Analyzed: 10/29/01

Level:(low/med) LOW Time Analyzed: 0711

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	062B106S101801	211009411	94-11.D	10/28/01	2135
2	062B110S101801	211009412	94-12.D	10/28/01	2210
3	062B137S101801	211009413	94-13.D	10/28/01	2245
4	062B146S101801	211009414	94-14.D	10/28/01	2319
5	062B158S101801	211009415	94-15.D	10/28/01	2354
6	062B189S101801	211009417	94-17.D	10/29/01	0125
7	062DUP1S101801	211009418	94-18.D	10/29/01	0200
8	062DUP2S101801	211009419	94-19.D	10/29/01	0234
9	062B7S101801	211009401	94-01.D	10/29/01	0309
10	062B31S101801	211009402	94-02.D	10/29/01	0418
11	062B41S101801	211009403	94-03.D	10/29/01	0453
12	062B70S101801	211009404	94-04.D	10/29/01	0527
13	062B96S101801	211009405	94-05.D	10/29/01	0602
14	062B99S101801	211009406	94-06.D	10/29/01	0636
15	1025SLCS	51554	1025ALCS.D	10/29/01	0746
16	1025SBLKMS	51555	1025ABMS.D	10/29/01	0820
17	1025SBLKSD	51556	1025ABMD.D	10/29/01	0855
18	062B101S101801	211009407	94-7.D	10/29/01	1053
19	062B101S101801MS	211009408	94-8.D	10/29/01	1127
20	062B101S101801SD	211009409	94-9.D	10/29/01	1202
21	062B104S101801	211009410	94-10.D	10/29/01	1254
22	062B167S101801DL1	211009416DL1	94-16D50.D	10/29/01	1329
23	062B101S101801DL	211009407DL1	94-7D2.D	10/29/01	1410
24	062B167S101801	211009416	94-16D10.D	10/29/01	1559
25	062B101S101801DLMS	211009408DL1	94-8D2.D	10/29/01	1633
26	062B101S101801DLSD	211009409DL1	94-9D2.D	10/29/01	1708

COMMENTS:

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PAH ORGANIC METHOD BLANK SUMMARY

EPA Sample No.: BLKA1

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

Lab Code: PEL Case No. SAS No: SDG No.: 2110094

Lab File ID: BLKA1.D Lab Sample ID: 51236

Instrument ID: sic02 Date Extracted: 10/24/01

Matrix: WATER Date Analyzed: 10/24/01

Level:(low/med) LOW Time Analyzed: 1857

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	LCSA1	51237	LCS.D	10/24/01	1932
2	BLKA1MS	51238	BLKA1MS.D	10/24/01	2006
3	BLKA1SD	51239	BLKA1SD.D	10/24/01	2041
4	062EB1W101801	211009420	094-20.D	10/24/01	2150

COMMENTS:

WATER PAH ORGANIC SURROGATE RECOVERY

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

Lab Code : PEL Case No. _____ SAS No: _____ SDG NO.: 2110094

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

EPA Sample NO.	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	TOT OUT
062EB1W101801	75.0						0
BLKA1	77.5						0
BLKA1MS	67.0						0
BLKA1SD	70.5						0
LCSA1	81.0						0

Control Limits

S1 = Terphenyl-d14 17 - 130

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

SOIL PAH ORGANIC SURROGATE RECOVERY

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

Lab Code : PEL Case No. _____ SAS No: _____ SDG NO.: 2110094

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

EPA Sample NO.	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	TOT OUT
062B101S101801	299.7 *						1
062B101S101801DL	2219.0 D						0
062B101S101801DLMS	432.1 D						0
062B101S101801DLSD	1358.1 D						0
062B101S101801MS	505.1 *						1
062B101S101801SD	1000.0 *						1
062B104S101801	65.8						0
062B106S101801	76.6						0
062B110S101801	63.1						0
062B137S101801	76.2						0
062B146S101801	55.0						0
062B158S101801	84.1						0
062B167S101801	178.4 D						0
062B167S101801DL1	228.8 D						0
062B189S101801	77.9						0
062B31S101801	76.9						0
062B41S101801	80.8						0
062B70S101801	72.1						0
062B7S101801	79.7						0
062B96S101801	67.0						0
062B99S101801	74.5						0
062DUP1S101801	71.3						0
062DUP2S101801	81.1						0
1025SBLK	81.4						0

Control Limits

S1 = Terphenyl-d14 17 - 130

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

061901 1317

SOIL PAH ORGANIC SURROGATE RECOVERY

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

Lab Code : PEL Case No. _____ SAS No: _____ SDG NO.: 2110094

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

EPA Sample NO.	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	TOT OUT
1025SBLKMS	86.5						0
1025SBLKSD	84.5						0
1025SLCS	81.2						0

Control Limits

S1 = Terphenyl-d14 17 - 130

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 8
PAH ANALYTICAL SEQUENCE

Lab Name: PEL LABORATORIES, INC. Contract: CECIL FIELD

Lab Code: Case No.: SAS No.: SDG No.: 2110094

GC Column: VYDAC 201TP54 ID: 4.60 (mm) Init. Calib. Date: 09/20/01

Instrument ID: SLC02

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

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 18.64

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	RT #
01	A30UGML	30UGML	09/20/01	1358	18.63	
02	A10UGM	5UGML	09/20/01	1432	18.59	
03	A20UGML	20UGML	09/20/01	1616	18.61	
04	APT2UGML	0.2ST2856	09/20/01	1729	18.64	
05	A15UGML	15ST2852	09/20/01	1814	18.64	
06	A5UGML	5ST2854	09/20/01	1848	18.64	
07	15STD3206	15STD3206	10/24/01	1748	18.59	
08	15STD3206	15STD3206	10/24/01	1823	18.59	
09	BLKA1	51236	10/24/01	1857	18.60	
10	LCSA1	51237	10/24/01	1932	18.61	
11	BLKA1MS	51238	10/24/01	2006	18.59	
12	BLKA1SD	51239	10/24/01	2041	18.60	
13	ZZZZZ	ZZZZZ	10/24/01	2116	18.61	
14	062EB1W101801	211009420	10/24/01	2150	18.61	
15	ZZZZZ	ZZZZZ	10/24/01	2225	18.60	
16	ZZZZZ	ZZZZZ	10/24/01	2259	18.59	
17	ZZZZZ	ZZZZZ	10/24/01	2334	18.60	
18	ZZZZZ	ZZZZZ	10/25/01	0008	18.60	
19	ZZZZZ	ZZZZZ	10/25/01	0043	18.60	
20	ZZZZZ	ZZZZZ	10/25/01	0118	18.60	
21	ZZZZZ	ZZZZZ	10/25/01	0152	18.60	
22	15STD3206	15STD3206	10/25/01	0227	18.59	
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						

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

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

FORM 8
PAH ANALYTICAL SEQUENCE

Lab Name: PEL LABORATORIES, INC. Contract: CECIL FIELD

Lab Code: Case No.: SAS No.: SDG No.: 2110094

GC Column: VYDAC201TP54 ID: 4.60 (mm) Init. Calib. Date: 10/28/01

Instrument ID: SLC02

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

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 18.85

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	RT #
01	30ST2850	30ST2850	10/28/01	1405	18.82	
02	15STD3206	15STD3206	10/28/01	1708	18.85	
03	30ST2850	30ST2850	10/28/01	1748	18.83	
04	20ST2851	20ST2851	10/28/01	1842	18.83	
05	10ST2853	10ST2853	10/28/01	1917	18.84	
06	5ST2854	5ST2854	10/28/01	1952	18.83	
07	0.2ST2856	0.2ST2856	10/28/01	2026	18.82	
08	15STD3206	15STD3206	10/28/01	2101	18.82	
09	15STD3206	15STD3206	10/28/01	2101	18.82	
10	062B106S101801	211009411	10/28/01	2135	18.82	
11	062B110S101801	211009412	10/28/01	2210	18.81	
12	062B137S101801	211009413	10/28/01	2245	18.80	
13	062B146S101801	211009414	10/28/01	2319	18.81	
14	062B158S101801	211009415	10/28/01	2354	18.80	
15	ZZZZZ	ZZZZZ	10/29/01	0050	18.83	
16	062B189S101801	211009417	10/29/01	0125	18.80	
17	062DUP1S101801	211009418	10/29/01	0200	18.80	
18	062DUP2S101801	211009419	10/29/01	0234	18.78	
19	062B7S101801	211009401	10/29/01	0309	18.77	
20	15STD3206	15STD3206	10/29/01	0343	18.76	
21	062B31S101801	211009402	10/29/01	0418	18.77	
22	062B41S101801	211009403	10/29/01	0453	18.76	
23	062B70S101801	211009404	10/29/01	0527	18.76	
24	062B96S101801	211009405	10/29/01	0602	18.76	
25	062B99S101801	211009406	10/29/01	0636	18.77	
26	1025SBLK	51553	10/29/01	0711	18.75	
27	1025SLCS	51554	10/29/01	0746	18.75	
28	1025SBLKMS	51555	10/29/01	0820	18.74	
29	1025SBLKSD	51556	10/29/01	0855	18.74	
30	15STD3206	15STD3206	10/29/01	0929	18.73	
31	062B101S101801	211009407	10/29/01	1053	18.76	
32	062B101S101801MS	211009408	10/29/01	1127	18.73	

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

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

FORM 8
PAH ANALYTICAL SEQUENCE

Lab Name: PEL LABORATORIES, INC. Contract: CECIL FIELD

Lab Code: Case No.: SAS No.: SDG No.: 2110094

GC Column: VYDAC201TP54 ID: 4.60 (mm) Init. Calib. Date: 10/28/01

Instrument ID: SLC02

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

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 18.59

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	RT #
01	062B101S101801MS	211009409	10/29/01	1202	18.73	
02	062B104S101801	211009410	10/29/01	1254	18.69	
03	062B167S101801DL	211009416DL1	10/29/01	1329	18.70	
04	062B101S101801DL	211009407DL1	10/29/01	1410	18.70	
05	15STD3206	15STD3206	10/29/01	1455	18.68	
06	062B167S101801	211009416	10/29/01	1559	18.74	
07	062B101S101801DL	211009408DL1	10/29/01	1633	18.72	
08	062B101S101801DL	211009409DL1	10/29/01	1708	18.74	
09	15STD3206	15STD3206	10/29/01	1742	18.68	
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QC LIMITS

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

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

FORM 8
PAH INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: PEL LABORATORIES, INC. Contract: CECIL FIELD

Lab Code: Case No.: SAS No.: SDG No.: 2110094

Lab File ID (Standard): CCV1B Date Analyzed: 10/24/01

Instrument ID: SLC02 Time Analyzed: 1823

	CLIENT SAMPLE NO.	IS1 AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	1943340	10.68				
	UPPER LIMIT	3886680	11.18				
	LOWER LIMIT	971670	10.18				
01	BLKA1	1973588	10.69				
02	LCSA1	2005767	10.71				
03	BLKA1MS	1946177	10.68				
04	BLKA1SD	1988749	10.68				
05	062EB1W101801	1988755	10.68				
06							
07							
08							
09							
10							
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12							
13							
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22							

IS1 = Carbazole (ISTD)

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

FORM 8
PAH INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: PEL LABORATORIES, INC. Contract: CECIL FIELD

Lab Code: Case No.: SAS No.: SDG No.: 2110094

Lab File ID (Standard): CCV1A Date Analyzed: 10/28/01

Instrument ID: SLC02 Time Analyzed: 2101

		IS1 AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	1952820	11.54				
	UPPER LIMIT	3905640	12.04				
	LOWER LIMIT	976410	11.04				
	CLIENT SAMPLE NO.						
01	062B106S101801	2062944	11.52				
02	062B110S101801	2080422	11.51				
03	062B137S101801	2042718	11.53				
04	062B146S101801	2181413	11.49				
05	062B158S101801	2034652	11.49				
06	062B189S101801	2011764	11.48				
07	062DUP1S101801	2113936	11.46				
08	062DUP2S101801	2043677	11.46				
09	062B7S101801	2013152	11.43				
10							
11							
12							
13							
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IS1 = Carbazole (ISTD)

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

FORM 8
PAH INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: PEL LABORATORIES, INC. Contract: CECIL FIELD

Lab Code: Case No.: SAS No.: SDG No.: 2110094

Lab File ID (Standard): CCV2 Date Analyzed: 10/29/01

Instrument ID: SLC02 Time Analyzed: 0343

		IS1 AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	1948559	11.41				
	UPPER LIMIT	3897118	11.91				
	LOWER LIMIT	974280	10.91				
	CLIENT SAMPLE NO.						
01	062B31S101801	1993679	11.38				
02	062B41S101801	2022316	11.37				
03	062B70S101801	2025175	11.39				
04	062B96S101801	2038607	11.37				
05	062B99S101801	2070360	11.38				
06	1025SBLK	2001986	11.37				
07	1025SLCS	2053844	11.34				
08	1025SBLKMS	2026608	11.33				
09	1025SBLKSD	2014685	11.30				
10							
11							
12							
13							
14							
15							
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17							
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22							

IS1 = Carbazole (ISTD)

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

FORM 8
PAH INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: PEL LABORATORIES, INC. Contract: CECIL FIELD

Lab Code: Case No.: SAS No.: SDG No.: 2110094

Lab File ID (Standard): CCV3 Date Analyzed: 10/29/01

Instrument ID: SLC02 Time Analyzed: 0929

		IS1 AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	1943466	11.30				
	UPPER LIMIT	3886932	11.80				
	LOWER LIMIT	971733	10.80				
	CLIENT SAMPLE NO.						
01	062B101S101801	2065901	11.22				
02	062B101S101801MS	2452130	11.25				
03	062B101S101801MS	1944680	11.21				
04	062B104S101801	2291095	11.14				
05	062B167S101801DL	1934816	11.15				
06	062B101S101801DL	2080368	11.04				
07							
08							
09							
10							
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12							
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15							
16							
17							
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19							
20							
21							
22							

IS1 = Carbazole (ISTD)

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

FORM 8
PAH INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: PEL LABORATORIES, INC. Contract: CECIL FIELD

Lab Code: Case No.: SAS No.: SDG No.: 2110094

Lab File ID (Standard): CCV4 Date Analyzed: 10/29/01

Instrument ID: SLC02 Time Analyzed: 1455

		IS1 AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	1947239	11.07				
	UPPER LIMIT	3894478	11.57				
	LOWER LIMIT	973620	10.57				
	CLIENT SAMPLE NO.						
01	062B167S101801	2010096	11.11				
02	062B101S101801DL	2228266	11.10				
03	062B101S101801DL	2263948	11.10				
04							
05							
06							
07							
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IS1 = Carbazole (ISTD)

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

3

PAH ORGANIC LAB CONTROL SAMPLE RECOVERY

EPA Sample No.: 1025SLCS

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

Lab Code: PEL Case No. _____ SAS No: _____ SDG No.: 2110094

COMPOUND	SPIKE ADDED ug/kg	LCS CONCENTRATION ug/kg	LCS % REC #	QC LIMITS REC.
Naphthalene	303	178	58.7	20 - 150
Acenaphthylene	303	195	64.4	20 - 150
1-Methylnaphthalene	303	204	67.3	20 - 150
2-Methylnaphthalene	303	200	66.0	20 - 150
Acenaphthene	303	195	64.4	20 - 150
Fluorene	303	213	70.3	20 - 150
Phenanthrene	303	232	76.6	20 - 150
Anthracene	303	193	63.7	20 - 150
Fluoranthene	303	242	79.9	20 - 150
Pyrene	303	238	78.5	20 - 150
Benzo(a)anthracene	303	251	82.8	20 - 150
Chrysene	303	247	81.5	20 - 150
Benzo(b)fluoranthene	303	255	84.2	20 - 150
Benzo(k)fluoranthene	303	255	84.2	20 - 150
Benzo(a)pyrene	303	243	80.2	20 - 150
Dibenz(a,h)anthracene	303	252	83.2	20 - 150
Benzo(g,h,i)perylene	303	253	83.5	20 - 150
Indeno(1,2,3-cd)pyrene	303	259	85.5	20 - 150

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: _____

3

PAH ORGANIC LAB CONTROL SAMPLE RECOVERY

EPA Sample No.: LCSA1

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

Lab Code: PEL Case No. _____ SAS No: _____ SDG No.: 2110094

COMPOUND	SPIKE ADDED ug/l	LCS CONCENTRATION ug/l	LCS % REC #	QC LIMITS REC.
Naphthalene	10	5.2	52.0 *	60 - 140
Acenaphthylene	10	6	60.0	60 - 140
1-Methylnaphthalene	10	6	60.0	60 - 140
2-Methylnaphthalene	10	5.7	57.0 *	60 - 140
Acenaphthene	10	5.8	58.0 *	60 - 140
Fluorene	10	6.4	64.0	60 - 140
Phenanthrene	10	6.9	69.0	60 - 140
Anthracene	10	6.2	62.0	60 - 140
Fluoranthene	10	7.1	71.0	60 - 140
Pyrene	10	7.5	75.0	60 - 140
Benzo(a)anthracene	10	7.3	73.0	60 - 140
Chrysene	10	7.3	73.0	60 - 140
Benzo(b)fluoranthene	10	7.5	75.0	60 - 140
Benzo(k)fluoranthene	10	7.2	72.0	60 - 140
Benzo(a)pyrene	10	7.3	73.0	60 - 140
Dibenz(a,h)anthracene	10	5.5	55.0 *	60 - 140
Benzo(g,h,i)perylene	10	4.3	43.0 *	60 - 140
Indeno(1,2,3-cd)pyrene	10	5.8	58.0 *	60 - 140

Spike Recovery: 6 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: _____

3

PAH ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Sample No.

062B101S101801MS

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

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 2110094

COMPOUND	SPIKE ADDED ug/kg	SAMPLE CONCENTRATION ug/kg	MS CONCENTRATION ug/kg	MS % REC #	QC LIMITS REC.
Naphthalene	342	0	387	113.2	20 - 150
Acenaphthylene	342	1460	1400	409.4 *	20 - 150
1-Methylnaphthalene	342	206	524	153.2 *	20 - 150
2-Methylnaphthalene	342	1090	1220	356.7 *	20 - 150
Acenaphthene	342	170	392	114.6	20 - 150
Fluorene	342	321	540	157.9 *	20 - 150
Phenanthrene	342	912	1040	304.1 *	20 - 150
Anthracene	342	0	0	0.0 *	20 - 150
Fluoranthene	342	1600	1940	567.3 *	20 - 150
Pyrene	342	201	320	93.6	20 - 150
Benzo(a)anthracene	342	0	400	117.0	20 - 150
Chrysene	342	1140	1270	371.3 *	20 - 150
Benzo(b)fluoranthene	342	0	435	127.2	20 - 150
Benzo(k)fluoranthene	342	0	374	109.4	20 - 150
Benzo(a)pyrene	342	0	484	141.5	20 - 150
Dibenz(a,h)anthracene	342	0	269	78.7	20 - 150
Benzo(g,h,i)perylene	342	0	144	42.1	20 - 150
Indeno(1,2,3-cd)pyrene	342	0	233	68.1	20 - 150

Spike Recovery: 8 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

061101 1455

3

PAH ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Sample No.

062B101S101801SD

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

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 2110094

COMPOUND	SPIKE ADDED ug/kg	MSD CONCENTRATION ug/kg	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Naphthalene	344	497	144.5	24.9	50	20 - 150
Acenaphthylene	344	2280	662.8 *	47.8	50	20 - 150
1-Methylnaphthalene	344	399	116.0	27.1	50	20 - 150
2-Methylnaphthalene	344	1240	360.5 *	1.6	50	20 - 150
Acenaphthene	344	415	120.6	5.7	50	20 - 150
Fluorene	344	682	198.3 *	23.2	50	20 - 150
Phenanthrene	344	1280	372.1 *	20.7	50	20 - 150
Anthracene	344	0	0.0 *		50	20 - 150
Fluoranthene	344	2080	604.7 *	7	50	20 - 150
Pyrene	344	350	101.7	9	50	20 - 150
Benzo(a)anthracene	344	326	94.8	20.4	50	20 - 150
Chrysene	344	1730	502.9 *	30.7	50	20 - 150
Benzo(b)fluoranthene	344	601	174.7 *	32	50	20 - 150
Benzo(k)fluoranthene	344	455	132.3	19.5	50	20 - 150
Benzo(a)pyrene	344	608	176.7 *	22.7	50	20 - 150
Dibenz(a,h)anthracene	344	316	91.9	16.1	50	20 - 150
Benzo(g,h,i)perylene	344	182	52.9	23.3	50	20 - 150
Indeno(1,2,3-cd)pyrene	344	259	75.3	10.6	50	20 - 150

RPD: 0 out of 18 outside limits

Spike Recovery: 9 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

061101 1433

3

PAH ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Sample No.

062B101S101801DLMS

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

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 2110094

COMPOUND	SPIKE ADDED ug/kg	SAMPLE CONCENTRATION ug/kg	MS CONCENTRATION ug/kg	MS % REC #	QC LIMITS REC.
Naphthalene	342	0	370	108.2	20 - 150
Acenaphthylene	342	1250	1520	444.4 *	20 - 150
1-Methylnaphthalene	342	257	550	160.8 *	20 - 150
2-Methylnaphthalene	342	1410	1280	374.3 *	20 - 150
Acenaphthene	342	181	366	107.0	20 - 150
Fluorene	342	295	700	204.7 *	20 - 150
Phenanthrene	342	804	1210	353.8 *	20 - 150
Anthracene	342	0	0	0.0 *	20 - 150
Fluoranthene	342	1840	1870	546.8 *	20 - 150
Pyrene	342	201	229	67.0	20 - 150
Benzo(a)anthracene	342	0	224	65.5	20 - 150
Chrysene	342	1260	1480	432.7 *	20 - 150
Benzo(b)fluoranthene	342	0	504	147.4	20 - 150
Benzo(k)fluoranthene	342	0	364	106.0	20 - 150
Benzo(a)pyrene	342	0	253	74.0	20 - 150
Dibenz(a,h)anthracene	342	0	293	85.7	20 - 150
Benzo(g,h,i)perylene	342	0	193	56.4	20 - 150
Indeno(1,2,3-cd)pyrene	342	0	222	64.9	20 - 150

Spike Recovery: 8 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

061101 1433

3

PAH ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Sample No.

062B101S101801DLSD

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

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 2110094

COMPOUND	SPIKE ADDED ug/kg	MSD CONCENTRATION ug/kg	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Naphthalene	344	226	65.7	48.3	50	20 - 150
Acenaphthylene	344	1760	511.6 *	14.6	50	20 - 150
1-Methylnaphthalene	344	390	113.0	34	50	20 - 150
2-Methylnaphthalene	344	1720	500.0 *	29.3	50	20 - 150
Acenaphthene	344	474	137.8	25.7	50	20 - 150
Fluorene	344	721	209.6 *	3	50	20 - 150
Phenanthrene	344	1120	325.6 *	7.7	50	20 - 150
Anthracene	344	0	0.0 *		50	20 - 150
Fluoranthene	344	2120	616.3 *	12.5	50	20 - 150
Pyrene	344	379	110.2	49.3	50	20 - 150
Benzo(a)anthracene	344	262	76.2	15.6	50	20 - 150
Chrysene	344	1550	450.6 *	4.6	50	20 - 150
Benzo(b)fluoranthene	344	500	145.3	0.8	50	20 - 150
Benzo(k)fluoranthene	344	396	115.1	8.4	50	20 - 150
Benzo(a)pyrene	344	278	80.8	9.4	50	20 - 150
Dibenz(a,h)anthracene	344	356	103.5	19.4	50	20 - 150
Benzo(g,h,i)perylene	344	140	40.7	31.8	50	20 - 150
Indeno(1,2,3-cd)pyrene	344	190	55.2	15.5	50	20 - 150

RPD: 0 out of 18 outside limits

Spike Recovery: 7 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

061401 5433

3

PAH ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Sample No.: 1025SBLKMS

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

Lab Code: PEL Case No. _____ SAS No: _____ SDG No.: 2110094

COMPOUND	SPIKE ADDED ug/kg	SAMPLE CONCENTRATION ug/kg	MS CONCENTRATION ug/kg	MS % REC #	QC LIMITS REC.
Naphthalene	303	0	173	57.1	20 - 150
Acenaphthylene	303	0	192	63.4	20 - 150
1-Methylnaphthalene	303	0	213	70.3	20 - 150
2-Methylnaphthalene	303	0	183	60.4	20 - 150
Acenaphthene	303	0	196	64.7	20 - 150
Fluorene	303	0	210	69.3	20 - 150
Phenanthrene	303	0	223	73.6	20 - 150
Anthracene	303	0	182	60.1	20 - 150
Fluoranthene	303	0	232	76.6	20 - 150
Pyrene	303	0	220	72.6	20 - 150
Benzo(a)anthracene	303	0	234	77.2	20 - 150
Chrysene	303	0	228	75.2	20 - 150
Benzo(b)fluoranthene	303	0	241	79.5	20 - 150
Benzo(k)fluoranthene	303	0	235	77.6	20 - 150
Benzo(a)pyrene	303	0	224	73.9	20 - 150
Dibenz(a,h)anthracene	303	0	253	83.5	20 - 150
Benzo(g,h,I)perylene	303	0	230	75.9	20 - 150
Indeno(1,2,3-cd)pyrene	303	0	240	79.2	20 - 150

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

061101 1317

3

PAH ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Sample No.

1025SBLKSD

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

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 2110094

COMPOUND	SPIKE ADDED ug/kg	MSD CONCENTRATION ug/kg	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Naphthalene	303	178	58.7	2.8	50	20 - 150
Acenaphthylene	303	187	61.7	2.6	50	20 - 150
1-Methylnaphthalene	303	205	67.7	3.8	50	20 - 150
2-Methylnaphthalene	303	192	63.4	4.8	50	20 - 150
Acenaphthene	303	196	64.7	0	50	20 - 150
Fluorene	303	208	68.6	1	50	20 - 150
Phenanthrene	303	223	73.6	0	50	20 - 150
Anthracene	303	193	63.7	5.9	50	20 - 150
Fluoranthene	303	233	76.9	0.4	50	20 - 150
Pyrene	303	236	77.9	7	50	20 - 150
Benzo(a)anthracene	303	237	78.2	1.3	50	20 - 150
Chrysene	303	232	76.6	1.7	50	20 - 150
Benzo(b)fluoranthene	303	245	80.9	1.6	50	20 - 150
Benzo(k)fluoranthene	303	240	79.2	2.1	50	20 - 150
Benzo(a)pyrene	303	226	74.6	0.9	50	20 - 150
Dibenz(a,h)anthracene	303	265	87.5	4.6	50	20 - 150
Benzo(g,h,i)perylene	303	236	77.9	2.6	50	20 - 150
Indeno(1,2,3-cd)pyrene	303	244	80.5	1.7	50	20 - 150

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

091101 1317

3

PAH ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Sample No.: BLKA1MS

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

Lab Code: PEL Case No. _____ SAS No: _____ SDG No.: 2110094

COMPOUND	SPIKE ADDED ug/l	SAMPLE CONCENTRATION ug/l	MS CONCENTRATION ug/l	MS % REC #	QC LIMITS REC.
Naphthalene	10	0	4.9	49.0 *	60 - 140
Acenaphthylene	10	0	5.4	54.0 *	60 - 140
1-Methylnaphthalene	10	0	5.9	59.0 *	60 - 140
2-Methylnaphthalene	10	0	5.1	51.0 *	60 - 140
Acenaphthene	10	0	5.3	53.0 *	60 - 140
Fluorene	10	0	5.6	56.0 *	60 - 140
Phenanthrene	10	0	6	60.0	60 - 140
Anthracene	10	0	5.2	52.0 *	60 - 140
Fluoranthene	10	0	6.3	63.0	60 - 140
Pyrene	10	0	6.5	65.0	60 - 140
Benzo(a)anthracene	10	0	6.3	63.0	60 - 140
Chrysene	10	0	6.2	62.0	60 - 140
Benzo(b)fluoranthene	10	0	6.6	66.0	60 - 140
Benzo(k)fluoranthene	10	0	6.5	65.0	60 - 140
Benzo(a)pyrene	10	0	6.4	64.0	60 - 140
Dibenz(a,h)anthracene	10	0	6.4	64.0	60 - 140
Benzo(g,h,i)perylene	10	0	5	50.0 *	60 - 140
Indeno(1,2,3-cd)pyrene	10	0	6	60.0	60 - 140

Spike Recovery: 8 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: _____

3

PAH ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Sample No.

BLKA1SD

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

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 2110094

COMPOUND	SPIKE ADDED ug/l	MSD CONCENTRATION ug/l	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Naphthalene	10	4.4	44.0 *	10.8	51	60 - 140
Acenaphthylene	10	5.2	52.0 *	3.8	30	60 - 140
1-Methylnaphthalene	10	6.7	67.0	12.7	30	60 - 140
2-Methylnaphthalene	10	5	50.0 *	2	30	60 - 140
Acenaphthene	10	5.6	56.0 *	5.5	30	60 - 140
Fluorene	10	5.6	56.0 *	0	30	60 - 140
Phenanthrene	10	5.9	59.0 *	1.7	30	60 - 140
Anthracene	10	5.6	56.0 *	7.4	30	60 - 140
Fluoranthene	10	7	70.0	10.5	30	60 - 140
Pyrene	10	6.6	66.0	1.5	30	60 - 140
Benzo(a)anthracene	10	6.6	66.0	4.7	30	60 - 140
Chrysene	10	6.5	65.0	4.7	30	60 - 140
Benzo(b)fluoranthene	10	6.7	67.0	1.5	30	60 - 140
Benzo(k)fluoranthene	10	6.4	64.0	1.6	30	60 - 140
Benzo(a)pyrene	10	6.5	65.0	1.6	30	60 - 140
Dibenz(a,h)anthracene	10	5.5	55.0 *	15.1	30	60 - 140
Benzo(g,h,i)perylene	10	4	40.0 *	22.2	30	60 - 140
Indeno(1,2,3-cd)pyrene	10	5.7	57.0 *	5.1	30	60 - 140

RPD 0 out of 18 outside limits

Spike Recovery: 10 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

061101 1317

Standards Data

6A

PAH ORGANICS INITIAL CALIBRATION DATA

Lab Name: PEL LABORATORIES, INC. Contract: CECIL FIELD

Lab Code: Case No.: SAS No.: SDG No.: 2110094

Instrument ID: SLC02 Calibration Date: 09/20/01

Column: VYDAC 201TP54 ID: 4.60 (mm) Calibration Time: 1848

LAB FILE ID: RRF0.2=APT2UGML.D RRF5 =A5UGML.D
RRF10 =A10UGML.D RRF15 =A15UGML.D RRF20 =A20UGML.D

COMPOUND	RRF0.2	RRF5	RRF10	RRF15	RRF20	$\overline{RRF}$	% RSD
Naphthalene	0.024	0.026	0.027	0.026	0.026		
Acenaphthylene	0.018	0.019	0.020	0.020	0.019		
1-Methyl naphthalene	0.015	0.015	0.016	0.016	0.015		
2-Methyl naphthalene	0.020	0.023	0.022	0.022	0.021		
Acenaphthene	0.012	0.011	0.010	0.010	0.010		
Fluorene	0.119	0.116	0.118	0.119	0.117		
Phenanthrene	0.346	0.319	0.330	0.329	0.325		
Anthracene	0.050	0.040	0.043	0.044	0.046		
Fluoranthene	0.082	0.078	0.079	0.078	0.077		
Pyrene	0.062	0.058	0.062	0.060	0.061		
Benzo(a)Anthracene	0.193	0.183	0.186	0.188	0.183		
Chrysene	0.270	0.262	0.258	0.264	0.255		
Benzo(b)Fluoranthene	0.179	0.208	0.210	0.207	0.202		
Benzo(k)Fluoranthene	0.146	0.155	0.158	0.159	0.155		
Benzo(a)pyrene	0.168	0.173	0.183	0.184	0.182		
Dibenz(ah)Anthracene	0.042	0.046	0.045	0.044	0.043		
Benzo(ghi)Perylene	0.154	0.130	0.150	0.158	0.153		
Indeno(123cd)Pyrene	0.178	0.181	0.186	0.189	0.188		
p-Terphenyl-d14 (SURR)	0.056	0.068	0.072	0.071	0.070		

Calibration Criteria Is Stated In Narrative

FORM VI SV-1

6A
PAH ORGANICS INITIAL CALIBRATION DATA

Lab Name: PEL LABORATORIES, INC. Contract: CECIL FIELD

Lab Code: Case No.: SAS No.: SDG No.: 2110094

Instrument ID: SLC02 Calibration Date: 09/20/01

Column: VYDAC 201TP54 ID: 4.60 (mm) Calibration Time: 1848

LAB FILE ID: RRF30 =A30UGML.D

COMPOUND	RRF30					$\overline{RRF}$	% RSD
Naphthalene	0.024					0.0255	3.7
Acenaphthylene	0.018					0.0190	2.8
1-Methyl naphthalene	0.015					0.0153	3.0
2-Methyl naphthalene	0.021					0.0215	4.3
Acenaphthene	0.010					0.0105	6.6
Fluorene	0.112					0.1168	2.3
Phenanthrene	0.309					0.3263	3.8
Anthracene	0.046					0.0448	7.0
Fluoranthene	0.074					0.0780	3.4
Pyrene	0.059					0.0603	2.9
Benzo(a)Anthracene	0.175					0.1847	3.3
Chrysene	0.245					0.2590	3.3
Benzo(b)Fluoranthene	0.192					0.1997	6.0
Benzo(k)Fluoranthene	0.151					0.1540	3.0
Benzo(a)pyrene	0.175					0.1775	3.6
Dibenz(ah)Anthracene	0.043					0.0438	3.6
Benzo(ghi)Perylene	0.163					0.1513	7.4
Indeno(123cd)Pyrene	0.181					0.1838	2.4
p-Terphenyl-d14 (SURR)	0.068					0.0675	8.8

Calibration Criteria Is Stated In Narrative

FORM VI SV-1

6A

PAH ORGANICS INITIAL CALIBRATION DATA

Lab Name: PEL LABORATORIES, INC. Contract: CECIL FIELD

Lab Code: Case No.: SAS No.: SDG No.: 2110094

Instrument ID: SLC02 Calibration Date: 10/28/01

Column: VYDAC201TP54 ID: 4.60 (mm) Calibration Time: 2026

LAB FILE ID: RRF0.2=PT2UGML.D RRF5 =5UGML.D
RRF10 =10UGML.D RRF15 =15UGML.D RRF20 =20UGML.D

COMPOUND	RRF0.2	RRF5	RRF10	RRF15	RRF20	$\overline{RRF}$	% RSD
Naphthalene	0.027	0.028	0.030	0.029	0.028		
Acenaphthylene	0.020	0.022	0.022	0.021	0.020		
1-Methyl naphthalene	0.017	0.017	0.018	0.017	0.016		
2-Methyl naphthalene	0.026	0.025	0.025	0.023	0.023		
Acenaphthene	0.010	0.012	0.011	0.011	0.011		
Fluorene	0.126	0.126	0.132	0.127	0.125		
Phenanthrene	0.376	0.342	0.356	0.356	0.350		
Anthracene	0.058	0.046	0.050	0.050	0.052		
Fluoranthene	0.083	0.084	0.088	0.085	0.084		
Pyrene	0.064	0.062	0.065	0.067	0.065		
Benzo(a)Anthracene	0.195	0.194	0.206	0.200	0.196		
Chrysene	0.269	0.285	0.300	0.275	0.280		
Benzo(b)Fluoranthene	0.210	0.213	0.231	0.221	0.219		
Benzo(k)Fluoranthene	0.174	0.162	0.173	0.168	0.165		
Benzo(a)pyrene	0.206	0.179	0.200	0.195	0.194		
Dibenz(ah)Anthracene	0.041	0.041	0.046	0.044	0.043		
Benzo(ghi)Perylene	0.073	0.067	0.075	0.076	0.074		
Indeno(123cd)Pyrene	0.175	0.175	0.197	0.190	0.187		
p-Terphenyl-d14 (SURR)	0.066	0.080	0.079	0.077	0.071		

Calibration Criteria Is Stated In Narrative

FORM VI SV-1

6A

PAH ORGANICS INITIAL CALIBRATION DATA

Lab Name: PEL LABORATORIES, INC. Contract: CECIL FIELD

Lab Code: Case No.: SAS No.: SDG No.: 2110094

Instrument ID: SLC02 Calibration Date: 10/28/01

Column: VYDAC201TP54 ID: 4.60 (mm) Calibration Time: 2026

LAB FILE ID: RRF30 =30UGML.D

COMPOUND	RRF30					$\overline{RRF}$	% RSD
Naphthalene	0.028					0.0283	3.8
Acenaphthylene	0.020					0.0208	4.8
1-Methyl naphthalene	0.017					0.0170	2.9
2-Methyl naphthalene	0.023					0.0242	4.5
Acenaphthene	0.010					0.0108	6.2
Fluorene	0.124					0.1267	2.3
Phenanthrene	0.335					0.3525	4.0
Anthracene	0.050					0.0510	8.4
Fluoranthene	0.082					0.0843	2.4
Pyrene	0.066					0.0648	2.5
Benzo(a)Anthracene	0.197					0.1980	2.2
Chrysene	0.287					0.2827	3.7
Benzo(b)Fluoranthene	0.214					0.2180	3.5
Benzo(k)Fluoranthene	0.158					0.1667	3.7
Benzo(a)pyrene	0.192					0.1943	4.8
Dibenz(ah)Anthracene	0.044					0.0432	5.2
Benzo(ghi)Perylene	0.075					0.0733	4.4
Indeno(123cd)Pyrene	0.186					0.1850	4.7
p-Terphenyl-d14 (SURR)	0.075					0.0747	6.9

Calibration Criteria Is Stated In Narrative

FORM VI SV-1

FORM 6
PAH INITIAL CALIBRATION DATA

Lab Name: PEL LABORATORIES, INC. Contract: CECIL FIELD

Lab Code: Case No.: SAS No.: SDG No.: 2110094

Instrument ID: SLC02 Calibration Date: 09/20/01

Column: VYDAC 201TP54 ID: 4.60 (mm) Calibration Time: 1848

LAB FILE ID: RT1: APT2UGML RT2: A5UGML RT3: A10UGML
RT4: A15UGML RT5: A20UGML

COMPOUND	RT1	RT2	RT3	RT4	RT5
Naphthalene	11.817	11.823	11.833	11.843	11.813
(2)	11.894	11.918	11.933	11.935	11.911
Acenaphthylene	13.047	13.060	13.073	13.077	13.050
1-Methyl naphthalene	13.687	13.697	13.690	13.703	13.677
(2)	13.794	13.790	13.787	13.798	13.771
2-Methyl naphthalene	14.030	14.030	14.023	14.037	14.007
(2)	14.099	14.128	14.118	14.131	14.104
Acenaphthene	14.370	14.363	14.353	14.377	14.343
(2)	14.464	14.461	14.450	14.466	14.437
Fluorene	14.723	14.730	14.713	14.737	14.707
(2)	14.807	14.825	14.808	14.826	14.801
Phenanthrene	15.540	15.543	15.520	15.547	15.523
(2)	15.637	15.640	15.613	15.640	15.619
Anthracene	16.357	16.366	16.330	16.361	16.339
Fluoranthene	17.113	17.117	17.073	17.117	17.090
(2)	17.262	17.216	17.182	17.216	17.189
Pyrene	17.653	17.663	17.613	17.663	17.630
(2)	17.752	17.766	17.713	17.761	17.732
Benzo(a)Anthracene	19.470	19.483	19.420	19.480	19.440
(2)	19.572	19.583	19.518	19.576	19.541
Chrysene	19.873	19.877	19.810	19.870	19.833
(2)	19.972	19.981	19.910	19.968	19.934
Benzo(b)Fluoranthene	21.307	21.317	21.240	21.307	21.270
(2)	21.414	21.420	21.338	21.405	21.371
Benzo(k)Fluoranthene	21.933	21.950	21.867	21.937	21.893
(2)	22.039	22.051	21.967	22.035	21.996
Benzo(a)pyrene	22.540	22.547	22.457	22.533	22.490
(2)	22.642	22.650	22.558	22.635	22.592
Dibenz(ah)Anthracene	23.490	23.563	23.467	23.543	23.503
(2)	23.644	23.668	23.570	23.643	23.607
Benzo(ghi)Perylene	24.379	24.410	24.303	24.388	24.347
Indeno(123cd)Pyrene	24.777	24.777	24.663	24.757	24.710
p-Terphenyl-d14 (SURR)	18.640	18.643	18.587	18.640	18.607
(2)	18.729	18.743	18.685	18.736	18.706

COMMENTS: _____

FORM 6
PAH INITIAL CALIBRATION DATA

Lab Name: PEL LABORATORIES, INC. Contract: CECIL FIELD

Lab Code: Case No.: SAS No.: SDG No.: 2110094

Instrument ID: SLC02 Calibration Date: 09/20/01

Column: VYDAC 201TP54 ID: 4.60 (mm) Calibration Time: 1848

RT6: A30UGML

COMPOUND	RT6	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Naphthalene	11.827	11.826	11.613	12.073
(2)	11.920	11.919	11.705	12.165
Acenaphthylene	13.067	13.062	12.847	13.307
1-Methyl naphthalene	13.693	13.691	13.473	13.933
(2)	13.788	13.788	13.568	14.028
2-Methyl naphthalene	14.027	14.026	13.807	14.267
(2)	14.122	14.117	13.901	14.361
Acenaphthene	14.363	14.361	14.147	14.607
(2)	14.458	14.456	14.236	14.696
Fluorene	14.727	14.723	14.507	14.967
(2)	14.825	14.815	14.596	15.056
Phenanthrene	15.540	15.535	15.317	15.777
(2)	15.637	15.631	15.410	15.870
Anthracene	16.357	16.352	16.131	16.591
Fluoranthene	17.107	17.103	16.887	17.347
(2)	17.205	17.212	16.986	17.446
Pyrene	17.653	17.646	17.433	17.893
(2)	17.758	17.747	17.531	17.991
Benzo(a)Anthracene	19.470	19.461	19.250	19.710
(2)	19.572	19.560	19.346	19.806
Chrysene	19.863	19.854	19.640	20.100
(2)	19.962	19.954	19.738	20.198
Benzo(b)Fluoranthene	21.297	21.290	21.077	21.537
(2)	21.400	21.391	21.175	21.635
Benzo(k)Fluoranthene	21.923	21.917	21.707	22.167
(2)	22.027	22.019	21.805	22.265
Benzo(a)pyrene	22.523	22.515	22.303	22.763
(2)	22.627	22.617	22.405	22.865
Dibenz(ah)Anthracene	23.527	23.515	23.313	23.773
(2)	23.630	23.627	23.413	23.873
Benzo(ghi)Perylene	24.375	24.367	24.158	24.618
Indeno(123cd)Pyrene	24.740	24.737	24.527	24.987
p-Terphenyl-d14 (SURR)	18.630	18.625	18.410	18.870
(2)	18.730	18.722	18.506	18.966

COMMENTS: _____

FORM 6
PAH INITIAL CALIBRATION DATA

Lab Name: PEL LABORATORIES, INC. Contract: CECIL FIELD

Lab Code: Case No.: SAS No.: SDG No.: 2110094

Instrument ID: SLC02 Calibration Date: 10/28/01

Column: VYDAC201TP54 ID: 4.60 (mm) Calibration Time: 2026

LAB FILE ID: RT1: PT2UGML RT2: 5UGML RT3: 10UGML
RT4: 15UGML RT5: 20UGML

COMPOUND	RT1	RT2	RT3	RT4	RT5
Naphthalene	12.453	12.467	12.473	11.770	12.410
(2)	12.552	12.557	12.567	11.860	12.500
Acenaphthylene	13.593	13.590	13.600	13.013	13.550
1-Methyl naphthalene	14.173	14.160	14.173	13.633	14.130
(2)	14.239	14.250	14.267	13.572	14.219
2-Methyl naphthalene	14.470	14.473	14.487	13.973	14.443
(2)	14.552	14.563	14.578	14.063	14.532
Acenaphthene	14.803	14.790	14.803	14.310	14.760
(2)	14.877	14.875	14.890	14.400	14.850
Fluorene	15.120	15.127	15.140	14.680	15.103
(2)	15.134	15.217	15.230	14.768	15.195
Phenanthrene	15.897	15.897	15.913	15.500	15.883
(2)	15.984	15.988	16.005	15.590	15.974
Anthracene	16.672	16.668	16.690	16.313	16.667
Fluoranthene	17.390	17.383	17.400	17.067	17.383
Pyrene	17.907	17.907	17.920	17.607	17.907
(2)	18.017	18.003	18.015	17.705	18.004
Benzo(a)Anthracene	19.640	19.640	19.650	19.427	19.647
(2)	19.741	19.735	19.743	19.518	19.742
Chrysene	20.027	20.023	20.033	19.820	20.030
(2)	20.117	20.118	20.130	19.917	20.125
Benzo(b)Fluoranthene	21.420	21.403	21.410	21.253	21.413
(2)	21.504	21.497	21.503	21.348	21.509
Benzo(k)Fluoranthene	22.020	22.017	22.020	21.883	22.023
(2)	22.139	22.113	22.117	21.983	22.119
Benzo(a)pyrene	22.603	22.600	22.603	22.477	22.607
(2)	22.717	22.700	22.700	22.578	22.704
Dibenz(ah)Anthracene	23.583	23.590	23.580	23.493	23.583
(2)	23.724	23.688	23.678	23.592	23.682
Benzo(ghi)Perylene	24.353	24.313	24.307	24.227	24.307
(2)	24.406	24.412	24.408	24.325	24.407
Indeno(123cd)Pyrene	24.823	24.780	24.770	24.703	24.767
p-Terphenyl-d14 (SURR)	18.823	18.827	18.837	18.593	18.833
(2)	18.921	18.917	18.930	18.690	18.925

COMMENTS: _____

FORM VI PAH

FORM 6
PAH INITIAL CALIBRATION DATA

Lab Name: PEL LABORATORIES, INC. Contract: CECIL FIELD

Lab Code: Case No.: SAS No.: SDG No.: 2110094

Instrument ID: SLC02 Calibration Date: 10/28/01

Column: VYDAC201TP54 ID: 4.60 (mm) Calibration Time: 2026

RT6: 30UGML

COMPOUND	RT6	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Naphthalene	12.423	12.333	11.540	12.000
(2)	12.513	12.425	11.540	12.000
Acenaphthylene	13.563	13.485	12.783	13.243
1-Methyl naphthalene	14.140	14.068	13.403	13.863
(2)	14.230	14.130	13.403	13.863
2-Methyl naphthalene	14.453	14.383	13.743	14.203
(2)	14.543	14.472	13.743	14.203
Acenaphthene	14.773	14.707	14.080	14.540
(2)	14.861	14.792	14.080	14.540
Fluorene	15.113	15.047	14.450	14.910
(2)	15.201	15.124	14.450	14.910
Phenanthrene	15.890	15.830	15.270	15.730
(2)	15.981	15.920	15.270	15.730
Anthracene	16.673	16.614	15.993	16.453
Fluoranthene	17.387	17.335	16.837	17.297
Pyrene	17.907	17.859	17.377	17.837
(2)	18.005	17.958	17.377	17.837
Benzo (ă) Anthracene	19.647	19.608	19.197	19.657
(2)	19.743	19.704	19.197	19.657
Chrysene	20.027	19.993	19.590	20.050
(2)	20.123	20.088	19.590	20.050
Benzo (b) Fluoranthene	21.403	21.384	21.023	21.483
(2)	21.500	21.477	21.023	21.483
Benzo (k) Fluoranthene	22.013	21.996	21.653	22.113
(2)	22.111	22.097	21.653	22.113
Benzo (a) pyrene	22.597	22.581	22.247	22.707
(2)	22.696	22.683	22.247	22.707
Dibenz (ah) Anthracene	23.580	23.568	23.263	23.723
(2)	23.678	23.674	23.263	23.723
Benzo (ghi) Perylene	24.307	24.302	23.997	24.457
(2)	24.408	24.394	23.997	24.457
Indeno (123cd) Pyrene	24.770	24.769	24.473	24.933
p-Terphenyl-d14 (SURR)	18.830	18.791	18.363	18.823
(2)	18.923	18.884	18.363	18.823

COMMENTS: _____

FORM VI PAH

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES, INC. Contract: CECIL FIELD

Lab Code: Case No.: SAS No.: SDG No.: 2110094

Instrument ID: SLC02 Calibration Date: 10/24/01 Time: 1823

Lab File ID: CCV1B Init. Calib. Date: 09/20/01

Init. Calib. Time: 1848

GC Column: VYDAC 201TP54 ID: 4.60 (mm)

COMPOUND	$\overline{RRF}$	RRF15	MIN RRF	%D	MAX %D
Naphthalene	0.0255	0.0280	0.000	-9.8	15.0
Acenaphthylene	0.0190	0.0196	0.000	-3.2	15.0
1-Methyl naphthalene	0.0153	0.0173	0.000	-13.1	15.0
2-Methyl naphthalene	0.0215	0.0236	0.000	-9.8	15.0
Acenaphthene	0.0105	0.0107	0.000	-1.9	15.0
Fluorene	0.1168	0.1276	0.000	-9.2	15.0
Phenanthrene	0.3263	0.3556	0.000	-9.0	15.0
Anthracene	0.0448	0.0492	0.000	-9.8	15.0
Fluoranthene	0.0780	0.0828	0.000	-6.2	15.0
Pyrene	0.0603	0.0682	0.000	-13.1	15.0
Benzo(a)Anthracene	0.1847	0.1994	0.000	-8.0	15.0
Chrysene	0.2590	0.2787	0.000	-7.6	15.0
Benzo(b)Fluoranthene	0.1997	0.2234	0.000	-11.9	15.0
Benzo(k)Fluoranthene	0.1540	0.1688	0.000	-9.6	15.0
Benzo(a)pyrene	0.1775	0.1995	0.000	-12.4	15.0
Dibenz(ah)Anthracene	0.0438	0.0470	0.000	-7.3	15.0
Benzo(ghi)Perylene	0.1513	0.1576	0.000	-4.2	15.0
Indeno(123cd)Pyrene	0.1838	0.1997	0.000	-8.6	15.0
p-Terphenyl-d14 (SURR)	0.0675	0.0764	0.000	-13.2	15.0

All other compounds must meet a minimum RRF of 0.010.

FORM VII SV-1

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES, INC. Contract: CECIL FIELD

Lab Code: Case No.: SAS No.: SDG No.: 2110094

Instrument ID: SLC02 Calibration Date: 10/25/01 Time: 0227

Lab File ID: CCV1C Init. Calib. Date: 09/20/01

Init. Calib. Time: 1848

GC Column: VYDAC 201TP54 ID: 4.60 (mm)

COMPOUND	$\overline{RRF}$	RRF15	MIN RRF	%D	MAX %D
Naphthalene	0.0255	0.0285	0.000	-11.8	15.0
Acenaphthylene	0.0190	0.0197	0.000	-3.7	15.0
1-Methyl naphthalene	0.0153	0.0173	0.000	-13.1	15.0
2-Methyl naphthalene	0.0215	0.0238	0.000	-10.7	15.0
Acenaphthene	0.0105	0.0107	0.000	-1.9	15.0
Fluorene	0.1168	0.1273	0.000	-9.0	15.0
Phenanthrene	0.3263	0.3465	0.000	-6.2	15.0
Anthracene	0.0448	0.0493	0.000	-10.0	15.0
Fluoranthene	0.0780	0.0824	0.000	-5.6	15.0
Pyrene	0.0603	0.0678	0.000	-12.4	15.0
Benzo(a)Anthracene	0.1847	0.1988	0.000	-7.6	15.0
Chrysene	0.2590	0.2781	0.000	-7.4	15.0
Benzo(b)Fluoranthene	0.1997	0.2228	0.000	-11.6	15.0
Benzo(k)Fluoranthene	0.1540	0.1679	0.000	-9.0	15.0
Benzo(a)pyrene	0.1775	0.1977	0.000	-11.4	15.0
Dibenz(ah)Anthracene	0.0438	0.0444	0.000	-1.4	15.0
Benzo(ghi)Perylene	0.1513	0.1440	0.000	4.8	15.0
Indeno(123cd)Pyrene	0.1838	0.2020	0.000	-9.9	15.0
p-Terphenyl-d14 (SURR)	0.0675	0.0754	0.000	-11.7	15.0

All other compounds must meet a minimum RRF of 0.010.

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES, INC. Contract: CECIL FIELD

Lab Code: Case No.: SAS No.: SDG No.: 2110094

Instrument ID: SLC02 Calibration Date: 10/28/01 Time: 2101

Lab File ID: CCV1A Init. Calib. Date: 10/28/01

Init. Calib. Time: 2026

GC Column: VYDAC201TP54 ID: 4.60 (mm)

COMPOUND	$\overline{RRF}$	RRF15	MIN RRF	%D	MAX %D
Naphthalene	0.0283	0.0291	0.000	-2.8	15.0
Acenaphthylene	0.0208	0.0210	0.000	-1.0	15.0
1-Methyl naphthalene	0.0170	0.0174	0.000	-2.4	15.0
2-Methyl naphthalene	0.0242	0.0249	0.000	-2.9	15.0
Acenaphthene	0.0108	0.0110	0.000	-1.8	15.0
Fluorene	0.1267	0.1278	0.000	-0.9	15.0
Phenanthrene	0.3525	0.3549	0.000	-0.7	15.0
Anthracene	0.0510	0.0502	0.000	1.6	15.0
Fluoranthene	0.0843	0.0848	0.000	-0.6	15.0
Pyrene	0.0648	0.0635	0.000	2.0	15.0
Benzo(a)Anthracene	0.1980	0.1984	0.000	-0.2	15.0
Chrysene	0.2827	0.2807	0.000	0.7	15.0
Benzo(b)Fluoranthene	0.2180	0.2198	0.000	-0.8	15.0
Benzo(k)Fluoranthene	0.1667	0.1672	0.000	-0.3	15.0
Benzo(a)pyrene	0.1943	0.1940	0.000	0.2	15.0
Dibenz(ah)Anthracene	0.0432	0.0436	0.000	-0.9	15.0
Benzo(ghi)Perylene	0.0733	0.0732	0.000	0.1	15.0
Indeno(123cd)Pyrene	0.1850	0.1912	0.000	-3.4	15.0
p-Terphenyl-d14 (SURR)	0.0747	0.0726	0.000	2.8	15.0

All other compounds must meet a minimum RRF of 0.010.

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES, INC. Contract: CECIL FIELD

Lab Code: Case No.: SAS No.: SDG No.: 2110094

Instrument ID: SLC02 Calibration Date: 10/29/01 Time: 0343

Lab File ID: CCV2 Init. Calib. Date: 10/28/01

Init. Calib. Time: 2026

GC Column: VYDAC201TP54 ID: 4.60 (mm)

COMPOUND	$\overline{RRF}$	RRF15	MIN RRF	%D	MAX %D
Naphthalene	0.0283	0.0286	0.000	-1.1	15.0
Acenaphthylene	0.0208	0.0195	0.000	6.2	15.0
1-Methyl naphthalene	0.0170	0.0164	0.000	3.5	15.0
2-Methyl naphthalene	0.0242	0.0237	0.000	2.1	15.0
Acenaphthene	0.0108	0.0107	0.000	0.9	15.0
Fluorene	0.1267	0.1281	0.000	-1.1	15.0
Phenanthrene	0.3525	0.3524	0.000	0.0	15.0
Anthracene	0.0510	0.0488	0.000	4.3	15.0
Fluoranthene	0.0843	0.0845	0.000	-0.2	15.0
Pyrene	0.0648	0.0666	0.000	-2.8	15.0
Benzo(a)Anthracene	0.1980	0.1998	0.000	-0.9	15.0
Chrysene	0.2827	0.2783	0.000	1.6	15.0
Benzo(b)Fluoranthene	0.2180	0.2260	0.000	-3.7	15.0
Benzo(k)Fluoranthene	0.1667	0.1689	0.000	-1.3	15.0
Benzo(a)pyrene	0.1943	0.1952	0.000	-0.5	15.0
Dibenz(ah)Anthracene	0.0432	0.0455	0.000	-5.3	15.0
Benzo(ghi)Perylene	0.0733	0.0755	0.000	-3.0	15.0
Indeno(123cd)Pyrene	0.1850	0.1953	0.000	-5.6	15.0
p-Terphenyl-d14 (SURR)	0.0747	0.0771	0.000	-3.2	15.0

All other compounds must meet a minimum RRF of 0.010.

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES, INC. Contract: CECIL FIELD

Lab Code: Case No.: SAS No.: SDG No.: 2110094

Instrument ID: SLC02 Calibration Date: 10/29/01 Time: 0929

Lab File ID: CCV3 Init. Calib. Date: 10/28/01

Init. Calib. Time: 2026

GC Column: VYDAC201TP54 ID: 4.60 (mm)

COMPOUND	$\overline{RRF}$	RRF15	MIN RRF	%D	MAX %D
Naphthalene	0.0283	0.0285	0.000	-0.7	15.0
Acenaphthylene	0.0208	0.0196	0.000	5.8	15.0
1-Methyl naphthalene	0.0170	0.0163	0.000	4.1	15.0
2-Methyl naphthalene	0.0242	0.0246	0.000	-1.6	15.0
Acenaphthene	0.0108	0.0106	0.000	1.8	15.0
Fluorene	0.1267	0.1282	0.000	-1.2	15.0
Phenanthrene	0.3525	0.3574	0.000	-1.4	15.0
Anthracene	0.0510	0.0494	0.000	3.1	15.0
Fluoranthene	0.0843	0.0848	0.000	-0.6	15.0
Pyrene	0.0648	0.0648	0.000	0.0	15.0
Benzo(a)Anthracene	0.1980	0.2004	0.000	-1.2	15.0
Chrysene	0.2827	0.2794	0.000	1.2	15.0
Benzo(b)Fluoranthene	0.2180	0.2253	0.000	-3.3	15.0
Benzo(k)Fluoranthene	0.1667	0.1684	0.000	-1.0	15.0
Benzo(a)pyrene	0.1943	0.1976	0.000	-1.7	15.0
Dibenz(ah)Anthracene	0.0432	0.0452	0.000	-4.6	15.0
Benzo(ghi)Perylene	0.0733	0.0752	0.000	-2.6	15.0
Indeno(123cd)Pyrene	0.1850	0.1951	0.000	-5.4	15.0
p-Terphenyl-d14 (SURR)	0.0747	0.0773	0.000	-3.5	15.0

All other compounds must meet a minimum RRF of 0.010.

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES, INC. Contract: CECIL FIELD

Lab Code: Case No.: SAS No.: SDG No.: 2110094

Instrument ID: SLC02 Calibration Date: 10/29/01 Time: 1455

Lab File ID: CCV4 Init. Calib. Date: 10/28/01

Init. Calib. Time: 2026

GC Column: VYDAC201TP54 ID: 4.60 (mm)

COMPOUND	$\overline{RRF}$	RRF15	MIN RRF	%D	MAX %D
Naphthalene	0.0283	0.0279	0.000	1.4	15.0
Acenaphthylene	0.0208	0.0197	0.000	5.3	15.0
1-Methyl naphthalene	0.0170	0.0163	0.000	4.1	15.0
2-Methyl naphthalene	0.0242	0.0230	0.000	5.0	15.0
Acenaphthene	0.0108	0.0107	0.000	0.9	15.0
Fluorene	0.1267	0.1279	0.000	-0.9	15.0
Phenanthrene	0.3525	0.3564	0.000	-1.1	15.0
Anthracene	0.0510	0.0479	0.000	6.1	15.0
Fluoranthene	0.0843	0.0845	0.000	-0.2	15.0
Pyrene	0.0648	0.0668	0.000	-3.1	15.0
Benzo(a)Anthracene	0.1980	0.1999	0.000	-1.0	15.0
Chrysene	0.2827	0.2780	0.000	1.7	15.0
Benzo(b)Fluoranthene	0.2180	0.2263	0.000	-3.8	15.0
Benzo(k)Fluoranthene	0.1667	0.1682	0.000	-0.9	15.0
Benzo(a)pyrene	0.1943	0.1983	0.000	-2.0	15.0
Dibenz(ah)Anthracene	0.0432	0.0447	0.000	-3.5	15.0
Benzo(ghi)Perylene	0.0733	0.0742	0.000	-1.2	15.0
Indeno(123cd)Pyrene	0.1850	0.1943	0.000	-5.0	15.0
p-Terphenyl-d14 (SURR)	0.0747	0.0775	0.000	-3.7	15.0

All other compounds must meet a minimum RRF of 0.010.

FORM VII SV-1

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES, INC. Contract: CECIL FIELD

Lab Code: Case No.: SAS No.: SDG No.: 2110094

Instrument ID: SLC02 Calibration Date: 10/29/01 Time: 1742

Lab File ID: CCV5 Init. Calib. Date: 10/28/01

Init. Calib. Time: 2026

GC Column: VYDAC201TP54 ID: 4.60 (mm)

COMPOUND	$\overline{RRF}$	RRF15	MIN RRF	%D	MAX %D
Naphthalene	0.0283	0.0285	0.000	-0.7	15.0
Acenaphthylene	0.0208	0.0205	0.000	1.4	15.0
1-Methyl naphthalene	0.0170	0.0175	0.000	-2.9	15.0
2-Methyl naphthalene	0.0242	0.0251	0.000	-3.7	15.0
Acenaphthene	0.0108	0.0110	0.000	-1.8	15.0
Fluorene	0.1267	0.1298	0.000	-2.4	15.0
Phenanthrene	0.3525	0.3575	0.000	-1.4	15.0
Anthracene	0.0510	0.0494	0.000	3.1	15.0
Fluoranthene	0.0843	0.0856	0.000	-1.5	15.0
Pyrene	0.0648	0.0669	0.000	-3.2	15.0
Benzo(a)Anthracene	0.1980	0.2022	0.000	-2.1	15.0
Chrysene	0.2827	0.2940	0.000	-4.0	15.0
Benzo(b)Fluoranthene	0.2180	0.2289	0.000	-5.0	15.0
Benzo(k)Fluoranthene	0.1667	0.1707	0.000	-2.4	15.0
Benzo(a)pyrene	0.1943	0.1997	0.000	-2.8	15.0
Dibenz(ah)Anthracene	0.0432	0.0453	0.000	-4.9	15.0
Benzo(ghi)Perylene	0.0733	0.0748	0.000	-2.0	15.0
Indeno(123cd)Pyrene	0.1850	0.1960	0.000	-5.9	15.0
p-Terphenyl-d14 (SURR)	0.0747	0.0783	0.000	-4.8	15.0

All other compounds must meet a minimum RRF of 0.010.

FORM VII SV-1

GC FL-PRO ORGANICS

METHOD FL-PRO

CASE NARRATIVE
FLORIDA PETROLEUM RANGE ORGANICS (FL PRO) SEMIVOLATILE ORGANICS

PEL Lab Reference No./SDG: 2110094

Client: CH2MHILL

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 data package.

II. HOLDING TIMES

A. Sample Preparation: All holding times were met.

B. Sample Analysis: All holding times were met.

III. METHODS

Florida DEP/FL PRO

IV. PREPARATION

Water samples were prepared by SW846 EPA 3510 for FL PRO semi-volatiles analysis.
Soil samples were prepared by SW846 EPA 3550 for FL PRO semi-volatiles analysis.

V. ANALYSIS

A. Calibration:

All acceptance criteria were met.

The FLPRO standards correspond to the following calibration files for TPH concentration at the instrument level:
CAL1= 0.034mg/mL
CAL2=0.17mg/mL
CAL3=0.84mg/mL
CAL4=1.7mg/mL
CAL5=2.55mg/mL
CAL6=5.1mg/mL
CAL7=6.8mg/mL

B. Blanks:

There was one blank analyzed associated with the water samples and was non-detect for target parameters.
There was one blank analyzed associated with the soil samples and was non-detect for target parameters.

C. Surrogates:

All surrogate criteria was met for the water samples.
All surrogate criteria was met for the soil samples with the exception of O-Terphenyl, which was above accpeptable criteria for samples 062B41S101801 and 062DUP2S101801. These samples were re-analyzed with similar results, however only the original analysis is reported. The surrogates were diluted out of the following samples; 062B101S101801, 062B101S101801MS, 062B101S101801SD, 062B146S101801, and 062B167S101801.

CASE NARRATIVE
FLORIDA PETROLEUM RANGE ORGANICS (FL PRO) SEMIVOLATILE ORGANICS

PEL Lab Reference No./SDG: 2110094

D. Spikes:

Laboratory Control Spikes (LCS)

One LCS, 1025LCSA, was analyzed with the water samples where all criteria were met.
One LCS, 1025LCSS, was analyzed with the soil samples where all criteria were met.

Matrix Spike/Matrix Spike Duplicate Samples (MS/SD)

One reagent MS/SD set was analyzed with the water samples, and met all acceptance criteria for relative percent difference and percent recovery.
One MS/SD set was analyzed with the soil samples, on sample 062B101S101801, where no criteria were met for relative percent difference and percent recovery. This sample had to be analyzed at a one to fifty dilution, therefore sample matrix can probably be attributed to this MS/SD set not meeting criteria.
One reagent MS/SD set was analyzed with the soil samples, and met all acceptance criteria for relative percent difference and percent recovery.

E. Internal standards:

This method does not require the use of internal standards.

F. Samples:

Sample analysis proceeded normally. The following samples were analyzed at dilutions due to over-calibration hits of TPH in the samples; 062B101S101801, 062B101S101801MS, 062B101S101801SD, 062B146S101801, 062B96S101801, and 062B167S101801. Project specific RLs were used per client request.

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: Lara Keene DATE: 11/5/01
Lara Keene

FL-PRO ORGANIC CROSS REFERENCE TABLE

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

Lab Code: PEL Case No. _____ SAS No: _____ SDG No.: 2110094

Method: FL-PRO

EPA Sample No	Lab Sample ID
062B7S101801	211009401
062B31S101801	211009402
062B41S101801	211009403
062B70S101801	211009404
062B96S101801	211009405
062B99S101801	211009406
062B101S101801	211009407
062B104S101801	211009410
062B106S101801	211009411
062B110S101801	211009412
062B137S101801	211009413
062B146S101801	211009414
062B158S101801	211009415
062B167S101801	211009416
062B189S101801	211009417
062DUP1S101801	211009418
062DUP2S101801	211009419
062EB1W101801	211009420

061101 1317

Sample Data

1

FL-PRO ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062B7S101801

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

Lab Code : PEL Case No. SAS No: SDG No.: 2110094

Matrix: SOIL Lab Sample ID 211009401 Lab File ID 94-01.D

Sample wt/vol: 25.05 Units: G Date Received: 10/19/01

Concentrated Extract Volume: 2 Date Extracted: 10/25/01

Level:(low/med) LOW Date Analyzed: 10/26/01 Time: 1728

PercentSolids: 85 decanted : Dilution Factor: 1

Extraction: SONC Station ID B-7 @ 2ft Method: FL-PRO

GPC Cleanup : (Y/N) N pH:

Column(1): RTX-5 ID: 0.53 (mm)

CONCENTRATION UNITS: mg/Kg

CAS NO.	*ANALYTE*	*RESULT*	*Q*
5289290-40-0	Total Petroleum Hydrocarbons	18	U

1

FL-PRO ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062B31S101801

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

Lab Code: PEL Case No. SAS No: SDG No.: 2110094

Matrix: SOIL Lab Sample ID 211009402 Lab File ID 94-02.D

Sample wt/vol: 25.03 Units: G Date Received: 10/19/01

Concentrated Extract Volume: 2 Date Extracted: 10/25/01

Level:(low/med) LOW Date Analyzed: 10/26/01 Time: 1802

PercentSolids: 83 decanted : Dilution Factor: 1

Extraction: SONC Station ID B-31 @ 3 ft Method: FL-PRO

GPC Cleanup : (Y/N) N pH:

Column(1): RTX-5 ID: 0.53 (mm)

CONCENTRATION UNITS: mg/Kg

CAS NO.	*ANALYTE*	*RESULT*	*Q*
5289290-40-0	Total Petroleum Hydrocarbons	18	U

1

FL-PRO ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062B41S101801

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

Lab Code: PEL Case No. SAS No: SDG No.: 2110094

Matrix: SOIL Lab Sample ID 211009403 Lab File ID 94-03.D

Sample wt/vol: 25.03 Units: G Date Received: 10/19/01

Concentrated Extract Volume: 2 Date Extracted: 10/25/01

Level:(low/med) LOW Date Analyzed: 10/26/01 Time: 1836

PercentSolids: 87 decanted : Dilution Factor: 1

Extraction: SONC Station ID B-41 @ 4ft Method: FL-PRO

GPC Cleanup : (Y/N) N pH:

Column(1): RTX-5 ID: 0.53 (mm)

CONCENTRATION UNITS: mg/Kg

CAS NO.	*ANALYTE*	*RESULT*	*Q*
5289290-40-0	Total Petroleum Hydrocarbons	17	U

1

FL-PRO ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062B70S101801

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

Lab Code: PEL Case No. SAS No: SDG No.: 2110094

Matrix: SOIL Lab Sample ID 211009-04 Lab File ID 94-04.D

Sample wt/vol: 25.03 Units: G Date Received: 10/19/01

Concentrated Extract Volume: 2 Date Extracted: 10/25/01

Level:(low/med) LOW Date Analyzed: 10/26/01 Time: 1910

PercentSolids: 89 decanted: Dilution Factor: 1

Extraction: SONC Station ID B-70 @ 4ft Method: FL-PRO

GPC Cleanup: (Y/N) N pH:

Column(1): RTX-5 ID: 0.53 (mm)

CONCENTRATION UNITS: mg/Kg

CAS NO.	ANALYTE	RESULT	Q
5289290-40-0	Total Petroleum Hydrocarbons	64	

1

FL-PRO ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062B96S101801

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

Lab Code: PEL Case No. SAS No: SDG No.: 2110094

Matrix: SOIL Lab Sample ID 211009405 Lab File ID 94-05D5.D

Sample wt/vol: 25.07 Units: G Date Received: 10/19/01

Concentrated Extract Volume: 2 Date Extracted: 10/25/01

Level:(low/med) LOW Date Analyzed: 10/27/01 Time: 1606

PercentSolids: 89 decanted : Dilution Factor: 5

Extraction: SONC Station ID B-96 @ 4ft Method: FL-PRO

GPC Cleanup : (Y/N) N pH:

Column(1): RTX-5 ID: 0.53 (mm)

CONCENTRATION UNITS: mg/Kg

CAS NO.	*ANALYTE*	*RESULT*	*Q*
5289290-40-0	Total Petroleum Hydrocarbons	969	

1

FL-PRO ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062B99S101801

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

Lab Code: PEL Case No. SAS No: SDG No.: 2110094

Matrix: SOIL Lab Sample ID 211009406 Lab File ID 94-06.D

Sample wt/vol: 25.07 Units: G Date Received: 10/19/01

Concentrated Extract Volume: 2 Date Extracted: 10/25/01

Level:(low/med) LOW Date Analyzed: 10/26/01 Time: 2017

PercentSolids: 85 decanted : Dilution Factor: 1

Extraction: SONC Station ID B-99 @ 4ft Method: FL-PRO

GPC Cleanup : (Y/N) N pH:

Column(1): RTX-5 ID: 0.53 (mm)

CONCENTRATION UNITS: mg/Kg

CAS NO.	ANALYTE	RESULT	Q
5289290-40-0	Total Petroleum Hydrocarbons	36	

1

FL-PRO ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062B101S101801

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

Lab Code : PEL Case No. SAS No: SDG No.: 2110094

Matrix: SOIL Lab Sample ID 211009407 Lab File ID 94-07D50.D

Sample wt/vol: 25.01 Units: G Date Received: 10/19/01

Concentrated Extract Volume: 2 Date Extracted: 10/25/01

Level:(low/med) LOW Date Analyzed: 10/27/01 Time: 1640

PercentSolids: 89 decanted : Dilution Factor: 50

Extraction: SONC Station ID B-101 @ 4ft Method: FL-PRO

GPC Cleanup : (Y/N) N pH:

Column(1): RTX-5 ID: 0.53 (mm)

CONCENTRATION UNITS: mg/Kg

CAS NO.	*ANALYTE*	*RESULT*	*Q*
5289290-40-0	Total Petroleum Hydrocarbons	7510	

1

FL-PRO ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062B104S101801

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

Lab Code : PEL Case No. SAS No: SDG No.: 2110094

Matrix: SOIL Lab Sample ID 211009410 Lab File ID 94-10.D

Sample wt/vol: 25.03 Units: G Date Received: 10/19/01

Concentrated Extract Volume: 2 Date Extracted: 10/25/01

Level:(low/med) LOW Date Analyzed: 10/26/01 Time: 2307

PercentSolids: 89 decanted : Dilution Factor: 1

Extraction: SONC Station ID B-104 @ 4ft Method: FL-PRO

GPC Cleanup : (Y/N) N pH:

Column(1): RTX-5 ID: 0.53 (mm)

CONCENTRATION UNITS: *mg/Kg*

CAS NO.	*ANALYTE*	*RESULT*	*Q*
5289290-40-0	Total Petroleum Hydrocarbons	80	

1

FL-PRO ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062B106S101801

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

Lab Code: PEL Case No. SAS No: SDG No.: 2110094

Matrix: SOIL Lab Sample ID 211009411 Lab File ID 94-11.D

Sample wt/vol: 25.05 Units: G Date Received: 10/19/01

Concentrated Extract Volume: 2 Date Extracted: 10/25/01

Level:(low/med) LOW Date Analyzed: 10/26/01 Time: 2342

PercentSolids: 91 decanted : Dilution Factor: 1

Extraction: SONC Station ID B-106 @ 4ft Method: FL-PRO

GPC Cleanup : (Y/N) N pH:

Column(1): RTX-5 ID: 0.53 (mm)

CONCENTRATION UNITS: mg/Kg

CAS NO.	*ANALYTE*	*RESULT*	*Q*
5289290-40-0	Total Petroleum Hydrocarbons	37	

1

FL-PRO ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062B110S101801

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

Lab Code: PEL Case No. SAS No: SDG No.: 2110094

Matrix: SOIL Lab Sample ID: 211009412 Lab File ID: 94-12.D

Sample wt/vol: 25.03 Units: G Date Received: 10/19/01

Concentrated Extract Volume: 2 Date Extracted: 10/25/01

Level:(low/med) LOW Date Analyzed: 10/27/01 Time: 0015

PercentSolids: 87 decanted: Dilution Factor: 1

Extraction: SONC Station ID: B-110 @ 4ft Method: FL-PRO

GPC Cleanup: (Y/N) N pH:

Column(1): RTX-5 ID: 0.53 (mm)

CONCENTRATION UNITS: mg/Kg

CAS NO.	ANALYTE	RESULT	Q
5289290-40-0	Total Petroleum Hydrocarbons	17	U

1

FL-PRO ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062B137S101801

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

Lab Code: PEL Case No. SAS No: SDG No.: 2110094

Matrix: SOIL Lab Sample ID 211009413 Lab File ID 94-13.D

Sample wt/vol: 25.07 Units: G Date Received: 10/19/01

Concentrated Extract Volume: 2 Date Extracted: 10/25/01

Level:(low/med) LOW Date Analyzed: 10/27/01 Time: 0049

PercentSolids: 89 decanted : Dilution Factor: 1

Extraction: SONC Station ID B-137 @ 2ft Method: FL-PRO

GPC Cleanup : (Y/N) N pH:

Column(1): RTX-5 ID: 0.53 (mm)

CONCENTRATION UNITS: mg/Kg

CAS NO.	ANALYTE	RESULT	Q
5289290-40-0	Total Petroleum Hydrocarbons	17	U

FL-PRO ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062B146S101801

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

Lab Code: PEL Case No. SAS No: SDG No.: 2110094

Matrix: SOIL Lab Sample ID: 211009414 Lab File ID: 94-14D10.D

Sample wt/vol: 25.06 Units: G Date Received: 10/19/01

Concentrated Extract Volume: 2 Date Extracted: 10/25/01

Level:(low/med) LOW Date Analyzed: 10/27/01 Time: 1821

PercentSolids: 93 decanted : Dilution Factor: 10

Extraction: SONC Station ID B-146 @ 4ft Method: FL-PRO

GPC Cleanup : (Y/N) N pH:

Column(1): RTX-5 ID: 0.53 (mm)

CONCENTRATION UNITS: mg/Kg

CAS NO.	ANALYTE	RESULT	Q
5289290-40-0	Total Petroleum Hydrocarbons	1640	

1

FL-PRO ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062B158S101801

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

Lab Code: PEL Case No. SAS No: SDG No.: 2110094

Matrix: SOIL Lab Sample ID 211009415 Lab File ID 94-15.D

Sample wt/vol: 25.04 Units: G Date Received: 10/19/01

Concentrated Extract Volume: 2 Date Extracted: 10/25/01

Level:(low/med) LOW Date Analyzed: 10/27/01 Time: 0157

PercentSolids: 84 decanted : Dilution Factor: 1

Extraction: SONC Station ID B-158 @ 4ft Method: FL-PRO

GPC Cleanup : (Y/N) N pH:

Column(1): RTX-5 ID: 0.53 (mm)

CONCENTRATION UNITS: mg/Kg

CAS NO.	ANALYTE	RESULT	Q
5289290-40-0	Total Petroleum Hydrocarbons	18	U

1

FL-PRO ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062B167S101801

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

Lab Code: PEL Case No. SAS No: SDG No.: 2110094

Matrix: SOIL Lab Sample ID 211009416 Lab File ID 94-16D50.D

Sample wt/vol: 25.03 Units: G Date Received: 10/19/01

Concentrated Extract Volume: 2 Date Extracted: 10/25/01

Level:(low/med) LOW Date Analyzed: 10/27/01 Time: 1855

PercentSolids: 87 decanted : Dilution Factor: 50

Extraction: SONC Station ID B-167 @ 4ft Method: FL-PRO

GPC Cleanup : (Y/N) N pH:

Column(1): RTX-5 ID: 0.53 (mm)

CONCENTRATION UNITS: mg/Kg

CAS NO.	ANALYTE	RESULT	Q
5289290-40-0	Total Petroleum Hydrocarbons	11400	

1

FL-PRO ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062B189S101801

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

Lab Code: PEL Case No. SAS No: SDG No.: 2110094

Matrix: SOIL Lab Sample ID 211009417 Lab File ID 94-17.D

Sample wt/vol: 25.05 Units: G Date Received: 10/19/01

Concentrated Extract Volume: 2 Date Extracted: 10/25/01

Level:(low/med) LOW Date Analyzed: 10/27/01 Time: 0339

PercentSolids: 89 decanted : Dilution Factor: 1

Extraction: SONC Station ID B-189 @ 4ft Method: FL-PRO

GPC Cleanup : (Y/N) N pH:

Column(1): RTX-5 ID: 0.53 (mm)

CONCENTRATION UNITS: mg/Kg

CAS NO.	ANALYTE	RESULT	Q
5289290-40-0	Total Petroleum Hydrocarbons	18	

1

FL-PRO ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062DUP1S101801

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

Lab Code: PEL Case No. SAS No: SDG No.: 2110094

Matrix: SOIL Lab Sample ID: 211009418 Lab File ID: 94-18.D

Sample wt/vol: 25.05 Units: G Date Received: 10/19/01

Concentrated Extract Volume: 2 Date Extracted: 10/25/01

Level:(low/med) LOW Date Analyzed: 10/27/01 Time: 0413

PercentSolids: 89 decanted: Dilution Factor: 1

Extraction: SONC Station ID Duplicate #1 Method: FL-PRO

GPC Cleanup: (Y/N) N pH:

Column(1): RTX-5 ID: 0.53 (mm)

CONCENTRATION UNITS: mg/Kg

CAS NO.	*ANALYTE*	*RESULT*	*Q*
5289290-40-0	Total Petroleum Hydrocarbons	118	

1

FL-PRO ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062DUP2S101801

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

Lab Code: PEL Case No. SAS No: SDG No.: 2110094

Matrix: SOIL Lab Sample ID: 2/1009419 Lab File ID: 94-19.D

Sample wt/vol: 25.05 Units: G Date Received: 10/19/01

Concentrated Extract Volume: 2 Date Extracted: 10/25/01

Level:(low/med) LOW Date Analyzed: 10/27/01 Time: 0447

PercentSolids: 86 decanted: Dilution Factor: 1

Extraction: SONC Station ID Duplicate #2 Method: FL-PRO

GPC Cleanup: (Y/N) N pH:

Column(1): RTX-5 ID: 0.53 (mm)

CONCENTRATION UNITS: mg/Kg

CAS NO.	ANALYTE	RESULT	Q
5289290-40-0	Total Petroleum Hydrocarbons	32	

1

FL-PRO ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062EB1W101801

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

Lab Code: PEL Case No. SAS No: SDG No.: 2110094

Matrix: WATER Lab Sample ID 211009420 Lab File ID 94-20.D

Sample wt/vol: 925 Units: ML Date Received: 10/19/01

Concentrated Extract Volume: 2 Date Extracted: 10/25/01

Level:(low/med) LOW Date Analyzed: 10/29/01 Time: 1804

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	Total Petroleum Hydrocarbons	0.54	U

QC Summary

1

FL-PRO ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 1025BLKW

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

Lab Code: PEL Case No. SAS No: SDG No.: 2110094

Matrix: WATER Lab Sample ID: 51391 Lab File ID: 1025BLKW.D

Sample wt/vol: 1000 Units: ML Date Received: 10/25/01

Concentrated Extract Volume: 2 Date Extracted: 10/25/01

Level:(low/med) LOW Date Analyzed: 10/29/01 Time: 1730

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: SEPF Station ID: QC 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	Total Petroleum Hydrocarbons	0.5	U

1

FL-PRO ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 1025BLKS

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

Lab Code: PEL Case No. SAS No: SDG No.: 2110094

Matrix: SOIL Lab Sample ID: 51443 Lab File ID: 1025BLKS.D

Sample wt/vol: 25.08 Units: G Date Received: 10/25/01

Concentrated Extract Volume: 2 Date Extracted: 10/25/01

Level:(low/med) LOW Date Analyzed: 10/26/01 Time: 1513

PercentSolids: 100 decanted: Dilution Factor: 1

Extraction: SONC Station ID: QC Method: FL-PRO

GPC Cleanup: (Y/N) N pH:

Column(1): RTX-5 ID: 0.53 (mm)

CONCENTRATION UNITS: mg/Kg

CAS NO.	*ANALYTE*	*RESULT*	*Q*
5289290-40-0	Total Petroleum Hydrocarbons	15	U

FL-PRO ORGANIC METHOD BLANK SUMMARY

EPA Sample No.: 1025BLKS

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

Lab Code: PEL Case No. SAS No: SDG No.: 2110094

Lab File ID: 1025BLKS.D Lab Sample ID: 51443

Instrument ID: sfid02 Date Extracted: 10/25/01

Matrix: SOIL Date Analyzed: 10/26/01

Level:(low/med) LOW Time Analyzed: 1513

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	1025LCSS	51444	1025LCS.D	10/26/01	1547
2	1025BLKSMS	51445	1025MS.D	10/26/01	1621
3	1025BLKSSD	51446	1025MSD.D	10/26/01	1655
4	062B7S101801	211009401	94-01.D	10/26/01	1728
5	062B31S101801	211009402	94-02.D	10/26/01	1802
6	062B41S101801	211009403	94-03.D	10/26/01	1836
7	062B70S101801	211009404	94-04.D	10/26/01	1910
8	062B99S101801	211009406	94-06.D	10/26/01	2017
9	062B104S101801	211009410	94-10.D	10/26/01	2307
10	062B106S101801	211009411	94-11.D	10/26/01	2342
11	062B110S101801	211009412	94-12.D	10/27/01	0015
12	062B137S101801	211009413	94-13.D	10/27/01	0049
13	062B158S101801	211009415	94-15.D	10/27/01	0157
14	062B189S101801	211009417	94-17.D	10/27/01	0339
15	062DUP1S101801	211009418	94-18.D	10/27/01	0413
16	062DUP2S101801	211009419	94-19.D	10/27/01	0447
17	062B96S101801	211009405	94-05D5.D	10/27/01	1606
18	062B101S101801	211009407	94-07D50.D	10/27/01	1640
19	062B101S101801MS	211009408	94-08D50.D	10/27/01	1714
20	062B101S101801SD	211009409	94-09D50.D	10/27/01	1748
21	062B146S101801	211009414	94-14D10.D	10/27/01	1821
22	062B167S101801	211009416	94-16D50.D	10/27/01	1855

COMMENTS:

4

FL-PRO ORGANIC METHOD BLANK SUMMARY

EPA Sample No.: 1025BLKW

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

Lab Code: PEL Case No. SAS No: SDG No.: 2110094

Lab File ID: 1025BLKW.D Lab Sample ID: 51391

Instrument ID: sfid02 Date Extracted: 10/25/01

Matrix: WATER Date Analyzed: 10/29/01

Level:(low/med) LOW Time Analyzed: 1730

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	1025LCSA	51392	1025LCS.D	10/25/01	2041
2	1025BLKWMS	51393	1025MS.D	10/25/01	2115
3	1025BLKWSD	51394	1025MSD.D	10/25/01	2148
4	062EB1W101801	211009420	94-20.D	10/29/01	1804

COMMENTS:

WATER FL-PRO ORGANIC SURROGATE RECOVERY

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

Lab Code : PEL Case No. _____ SAS No: _____ SDG NO.: 2110094

Column(1): RTX-5 ID: 0.53 (mm)

EPA Sample NO.	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	TOT OUT
062EB1W101801	100.0	69.2					0
1025BLKW	94.0	61.7					0
1025BLKWMS	86.0	63.3					0
1025BLKWSD	91.0	65.0					0
1025LCSA	87.0	65.0					0

	Control Limits
S1 = O-Terphenyl	82 - 142
S2 = C39	42 - 193

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogates diluted out
Control limit source: (lab/method) METHOD

Form II

061191 1317

SOIL FL-PRO ORGANIC SURROGATE RECOVERY

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

Lab Code: PEL Case No. _____ SAS No: _____ SDG NO.: 2110094

Column(1): RTX-5 ID: 0.53 (mm)

EPA Sample NO.	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	TOT OUT
062B101S101801	0.0 D	0.0 D					0
062B101S101801MS	0.0 D	0.0 D					0
062B101S101801SD	0.0 D	0.0 D					0
062B104S101801	102.2	78.5					0
062B106S101801	106.8	81.7					0
062B110S101801	100.0	78.8					0
062B137S101801	108.9	83.6					0
062B146S101801	0.0 D	0.0 D					0
062B158S101801	108.5	76.8					0
062B167S101801	0.0 D	0.0 D					0
062B189S101801	104.4	83.0					0
062B31S101801	100.0	80.3					0
062B41S101801	110.9 *	85.2					1
062B70S101801	102.2	78.4					0
062B7S101801	106.4	86.2					0
062B96S101801	104.4	81.4					0
062B99S101801	104.3	82.9					0
062DUP1S101801	104.4	84.3					0
062DUP2S101801	110.9 *	87.1					1
1025BLKS	95.0	75.7					0
1025BLKSMS	102.5	74.9					0
1025BLKSSD	90.0	68.3					0
1025LCSS	92.5	70.0					0

Control Limits

S1 = O-Terphenyl 62 - 109

S2 = C39 60 - 118

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 8
FL-PRO ANALYTICAL SEQUENCE

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2110094

GC Column: RTX-5 ID: 0.53 (mm) Init. Calib. Date: 10/25/01

Instrument ID: SFID02

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

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 10.28 S2 : 4.72

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #
01	CAL7SV3117	CAL7SV3117	10/25/01	1458	10.33	4.72
02	CAL6SV3118	CAL6SV3118	10/25/01	1533	10.29	4.71
03	CAL5SV3119	CAL5SV3119	10/25/01	1608	10.28	4.72
04	CAL4SV3120	CAL4SV3120	10/25/01	1643	10.20	4.69
05	CAL3SV3121	CAL3SV3121	10/25/01	1717	10.31	4.72
06	CAL2SV3122	CAL2SV3122	10/25/01	1751	10.24	4.71
07	CAL1SV3123	CAL1SV3123	10/25/01	1826	10.28	4.71
08	SECSTDSV3124	SECSTDSV3124	10/25/01	1859	10.23	4.70
09	CCV1SV3119	CCV1SV3119	10/25/01	1933	10.24	4.70
10	ZZZZZ	ZZZZZ	10/25/01	2007	10.27	4.71
11	1025LCSA	51392	10/25/01	2041	10.18	4.70
12	1025BLKWMS	51393	10/25/01	2115	10.23	4.70
13	1025BLKWSD	51394	10/25/01	2148	10.22	4.70
14	062EB1W101801	211009420	10/25/01	2222	10.18	4.69
15	ZZZZZ	ZZZZZ	10/25/01	2256	10.22	4.70
16	ZZZZZ	ZZZZZ	10/25/01	2330	10.23	4.70
17	ZZZZZ	ZZZZZ	10/26/01	0003	10.13	4.68
18	ZZZZZ	ZZZZZ	10/26/01	0037	10.16	4.69
19	ZZZZZ	ZZZZZ	10/26/01	0111	10.19	4.70
20	CCV2SV3119	CCV2SV3119	10/26/01	0144	10.13	4.68
21	ZZZZZ	ZZZZZ	10/26/01	0219	10.25	4.71
22	ZZZZZ	ZZZZZ	10/26/01	0254	10.15	4.68
23	ZZZZZ	ZZZZZ	10/26/01	0328	10.23	4.70
24	ZZZZZ	ZZZZZ	10/26/01	0401	10.19	4.70
25	CCV3SV3119	CCV3SV3119	10/26/01	0436	10.16	4.69
26	ZZZZZ	ZZZZZ	10/26/01	1010		
27	CCV4SV3119	CCV4SV3119	10/26/01	1044	10.28	4.72
28	ZZZZZ	ZZZZZ	10/29/01	1623		
29	CCV1SV3119	CCV1SV3119	10/29/01	1656	10.18	4.69
30	1025BLKW	51391	10/29/01	1730	10.26	4.71
31	062EB1W101801	211009420	10/29/01	1804	10.21	4.70
32	CCV2SV3119	CCV2SV3119	10/29/01	2307	10.17	4.69

QC LIMITS

S1 = Nonatriacontane (+/- 0.30 MINUTES)
S2 = ortho-Terphenyl (+/- 0.07 MINUTES)

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

FORM 8
FL-PRO ANALYTICAL SEQUENCE

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2110094

GC Column: RTX-5 ID: 0.53 (mm) Init. Calib. Date: 10/25/01

Instrument ID: SFID02

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

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 10.28 S2 : 4.72

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #
01	CCV3SV3119	CCV3SV3119	10/30/01	0520	10.15	4.69
02	CCV4SV3119	CCV4SV3119	10/30/01	0628	10.20	4.69
03						
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32						

QC LIMITS

S1 = Nonatriacontane (+/- 0.30 MINUTES)
S2 = ortho-Terphenyl (+/- 0.07 MINUTES)

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

FORM 8
FL-PRO ANALYTICAL SEQUENCE

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2110094

GC Column: RTX-5 ID: 0.53 (mm) Init. Calib. Date: 10/25/01

Instrument ID: SFID02

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

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 10.28 S2 : 4.71

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #
01	CAL7SV3117	CAL7SV3117	10/25/01	1458	10.33	4.72
02	CAL6SV3118	CAL6SV3118	10/25/01	1533	10.29	4.71
03	CAL5SV3119	CAL5SV3119	10/25/01	1608	10.28	4.72
04	CAL4SV3120	CAL4SV3120	10/25/01	1643	10.20	4.69
05	CAL3SV3121	CAL3SV3121	10/25/01	1717	10.31	4.72
06	CAL2SV3122	CAL2SV3122	10/25/01	1751	10.24	4.71
07	CAL1SV3123	CAL1SV3123	10/25/01	1826	10.28	4.71
08	SECSTDSV3124	SECSTDSV3124	10/25/01	1859	10.23	4.70
09	CCV1SV3119	CCV1SV3119	10/26/01	1317	10.34	4.73
10	1025BLKS	51443	10/26/01	1513	10.58	4.81*
11	1025LCSS	51444	10/26/01	1547	10.24	4.71
12	1025BLKSMS	51445	10/26/01	1621	10.16	4.69
13	1025BLKSSD	51446	10/26/01	1655	10.29	4.72
14	062B7S101801	211009401	10/26/01	1728	10.22	4.70
15	062B31S101801	211009402	10/26/01	1802	10.24	4.71
16	062B41S101801	211009403	10/26/01	1836	10.26	4.71
17	062B70S101801	211009404	10/26/01	1910	10.23	4.70
18	062B96S101801	211009405	10/26/01	1944	10.23	4.71
19	062B99S101801	211009406	10/26/01	2017	10.16	4.69
20	CCV2SV3119	CCV2SV3119	10/26/01	2051	10.23	4.70
21	062B101S101801	211009407	10/26/01	2126	10.19	4.74
22	062B101S101801MS	211009408	10/26/01	2159	10.16	4.74
23	062B101S101801MS	211009409	10/26/01	2234	10.13	4.73
24	062B104S101801	211009410	10/26/01	2307	10.11	4.68
25	062B106S101801	211009411	10/26/01	2342	10.11	4.68
26	062B110S101801	211009412	10/27/01	0015	10.09	4.68
27	062B137S101801	211009413	10/27/01	0049	10.10	4.68
28	062B146S101801	211009414	10/27/01	0124	10.10	4.73
29	062B158S101801	211009415	10/27/01	0157	10.05	4.67
30	062B167S101801	211009416	10/27/01	0231	10.10	4.71
31	CCV3SV3119	CCV3SV3119	10/27/01	0306	10.10	4.68
32	062B189S101801	211009417	10/27/01	0339	10.08	4.67

QC LIMITS
S1 = Nonatriacontane (+/- 0.30 MINUTES)
S2 = ortho-Terphenyl (+/- 0.07 MINUTES)

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

FORM VIII FL-PRO

FORM 8
FL-PRO ANALYTICAL SEQUENCE

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2110094

GC Column: RTX-5 ID: 0.53 (mm) Init. Calib. Date: 10/25/01

Instrument ID: SFID02

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

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 10.28 S2 : 4.71

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #
01	062DUP1S101801	211009418	10/27/01	0413	10.13	4.68
02	062DUP2S101801	211009419	10/27/01	0447	10.11	4.67
03	CCV4SV3119	CCV4SV3119	10/27/01	0521	10.09	4.67
04	062B96S101801	211009405	10/27/01	1606	10.37	4.74
05	062B101S101801	211009407	10/27/01	1640		
06	062B101S101801MS	211009408	10/27/01	1714		
07	062B101S101801MS	211009409	10/27/01	1748		
08	062B146S101801	211009414	10/27/01	1821		
09	062B167S101801	211009416	10/27/01	1855		
10	CCV5SV3119	CCV5SV3119	10/27/01	1929	10.24	4.70
11	ZZZZZ	ZZZZZ	10/29/01	1838	10.24	4.71
12	ZZZZZ	ZZZZZ	10/29/01	1911	10.19	4.69
13	ZZZZZ	ZZZZZ	10/29/01	1945	10.21	4.70
14	ZZZZZ	ZZZZZ	10/29/01	2019	10.16	4.69
15	ZZZZZ	ZZZZZ	10/29/01	2053	10.12	4.72
16	ZZZZZ	ZZZZZ	10/29/01	2128	10.12	4.71
17	ZZZZZ	ZZZZZ	10/29/01	2201	10.08	4.67
18	ZZZZZ	ZZZZZ	10/29/01	2234	10.15	4.68
19	ZZZZZ	ZZZZZ	10/29/01	2342	10.21	4.70
20	ZZZZZ	ZZZZZ	10/30/01	0014	10.13	4.68
21	ZZZZZ	ZZZZZ	10/30/01	0048	10.15	4.69
22	ZZZZZ	ZZZZZ	10/30/01	0122	10.14	4.68
23	ZZZZZ	ZZZZZ	10/30/01	0155	10.16	4.69
24	ZZZZZ	ZZZZZ	10/30/01	0230	10.09	4.68
25	ZZZZZ	ZZZZZ	10/30/01	0304	10.17	4.68
26	ZZZZZ	ZZZZZ	10/30/01	0337	10.11	4.68
27	ZZZZZ	ZZZZZ	10/30/01	0412	10.11	4.68
28	ZZZZZ	ZZZZZ	10/30/01	0446	10.11	4.69
29	ZZZZZ	ZZZZZ	10/30/01	0554	10.20	4.73
30	ZZZZZ	ZZZZZ	10/30/01	1009	10.50	4.75
31	ZZZZZ	ZZZZZ	10/30/01	1043	9.44*	4.73
32	CCV5SV3119	CCV5SV3119	10/30/01	1117	10.17	4.69

QC LIMITS
S1 = Nonatriacontane (+/- 0.30 MINUTES)
S2 = ortho-Terphenyl (+/- 0.07 MINUTES)

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

3

FL-PRO ORGANIC LAB CONTROL SAMPLE RECOVERY

EPA Sample No.: 1025LCSA

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

Lab Code: PEL Case No. _____ SAS No: _____ SDG No.: 2110094

COMPOUND	SPIKE ADDED mg/L	LCS CONCENTRATION mg/L	LCS % REC #	QC LIMITS REC.
Total Petroleum Hydrocarbons	3.4	2.8	82.4	55 - 118

Spike Recovery: 0 out of 1 outside limits

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS: _____

3

FL-PRO ORGANIC LAB CONTROL SAMPLE RECOVERY

EPA Sample No.: 1025LCSS

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

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 2110094

COMPOUND	SPIKE ADDED mg/Kg	LCS CONCENTRATION mg/Kg	LCS % REC #	QC LIMITS REC.
Total Petroleum Hydrocarbons	136	131	96.3	63 - 153

Spike Recovery: 0 out of 1 outside limits

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS: _____

3

FL-PRO ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Sample No.

062B101S101801MS

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

Lab Code: PEL Case No. _____ SAS No: _____ SDG No.: 2110094

COMPOUND	SPIKE ADDED mg/Kg	SAMPLE CONCENTRATION mg/Kg	MS CONCENTRATION mg/Kg	MS % REC #	QC LIMITS REC.
Total Petroleum Hydrocarbons	152	7510	8840	872.0 *	62 - 204

Spike Recovery: 1 out of 1 outside limits

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS: _____

Form III

061101 1317

3

FL-PRO ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Sample No.

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field 062B101S101801SD

Lab Code: PEL Case No. _____ SAS No: _____ SDG No.: 2110094

COMPOUND	SPIKE ADDED mg/Kg	MSD CONCENTRATION mg/Kg	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Total Petroleum Hydrocarbons	153	5660	-1212.0 * ✓	43.9 * ✓	25	62 - 204

RPD 1 out of 1 outside limits

Spike Recovery: 1 out of 1 outside limits

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS: _____

_____

Form III

061101 1317

3

FL-PRO ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Sample No.: 1025BLKSMS

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

Lab Code: PEL Case No. _____ SAS No: _____ SDG No.: 2110094

COMPOUND	SPIKE ADDED mg/Kg	SAMPLE CONCENTRATION mg/Kg	MS CONCENTRATION mg/Kg	MS % REC #	QC LIMITS REC.
Total Petroleum Hydrocarbons	136	0	148	108.8	62 - 204

Spike Recovery: 0 out of 1 outside limits

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS: _____

Form III

081101 1317

3

FL-PRO ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Sample No.

1025BLKSSD

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

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 2110094

COMPOUND	SPIKE ADDED mg/Kg	MSD CONCENTRATION mg/Kg	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Total Petroleum Hydrocarbons	136	134	98.5	9.9	25	62 - 204

RPD 0 out of 1 outside limits

Spike Recovery: 0 out of 1 outside limits

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS: _____

Form III

061101 1317

3

FL-PRO ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Sample No.: 1025BLKWMS

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

Lab Code: PEL Case No. _____ SAS No: _____ SDG No.: 2110094

COMPOUND	SPIKE ADDED mg/L	SAMPLE CONCENTRATION mg/L	MS CONCENTRATION mg/L	MS % REC #	QC LIMITS REC.
Total Petroleum Hydrocarbons	3.4	0	2.8	82.4	41 - 101

Spike Recovery: 0 out of 1 outside limits

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS: _____

Form III

051901 1317

3

FL-PRO ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Sample No.

Lab Name: PEL Laboratories, Inc. Contract: Cecil Field | 1025BLKWSD

Lab Code : PEL Case No. ____ SAS No: ____ SDG No.: 2110094

COMPOUND	SPIKE ADDED mg/L	MSD CONCENTRATION mg/L	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Total Petroleum Hydrocarbons	3.4	3.2	94.1	13.3	20	41 - 101

RPD 0 out of 1 outside limits

Spike Recovery: 0 out of 1 outside limits

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS: ____

Standards Data

FORM 6
FL-PRO INITIAL CALIBRATION DATA

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2110094

Instrument ID: SFID02 Calibration Date: 10/25/01

Column: RTX-5 ID: 0.53 (mm) Calibration Time: 1826

LAB FILE ID: RF0.034: CAL1 RF0.17: CAL2 RF0.84: CAL3
RF1.7: CAL4 RF2.55: CAL5

COMPOUND	RF0.034	RF0.17	RF0.84	RF1.7	RF2.55
TPH (C8-C40)	34572824	11682494	5018594.1	4259248.8	3856432.2
Nonatriacontane	4439803.3	4969383.3	4714813.3	5292516.7	4663253.3
ortho-Terphenyl	3779340.0	3497240.0	3520660.0	3620600.0	3508480.0

Calibration Criteria Is Stated In Narrative

FORM 6
FL-PRO INITIAL CALIBRATION DATA

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2110094

Instrument ID: SFID02 Calibration Date: 10/25/01

Column: RTX-5 ID: 0.53 (mm) Calibration Time: 1826

LAB FILE ID: RF5.1: CAL6 RF6.8: CAL7

COMPOUND	RF5.1	RF6.8
TPH (C8-C40)	3533879.8	3434516.5
Nonatriacontane	3930723.3	3657583.3
ortho-Terphenyl	3482320.0	3558600.0

Calibration Criteria Is Stated In Narrative

FORM 6
FL-PRO INITIAL CALIBRATION DATA

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2110094

Instrument ID: SFID02 Calibration Date: 10/25/01

Column: RTX-5 ID: 0.53 (mm) Calibration Time: 1826

COMPOUND	CURVE	COEFFICENTS A0	COEFFICENTS A1	%RSD OR R^2
TPH (C8-C40)	LINR	-0.4398584	3.079e-007	0.999
Nonatriacontane	AVRG		4524010.95	12.6
ortho-Terphenyl	AVRG		3566748.57	2.9

Calibration Criteria Is Stated In Narrative

FORM 6
FL-PRO INITIAL CALIBRATION DATA

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2110094

Instrument ID: SFID02 Calibration Date: 10/25/01

Column: RTX-5 ID: 0.53 (mm) Calibration Time: 1826

LAB FILE ID: RF0.034: CAL1 RF0.17: CAL2 RF0.84: CAL3
RF1.7: CAL4 RF2.55: CAL5

COMPOUND	RF0.034	RF0.17	RF0.84	RF1.7	RF2.55
TPH (C8-C40)	34572824	11682494	5018594.1	4259248.8	3856432.2
Nonatriacontane	4439803.3	4969383.3	4714813.3	5292516.7	4663253.3
ortho-Terphenyl	3779340.0	3497240.0	3520660.0	3620600.0	3508480.0

Calibration Criteria Is Stated In Narrative

FORM 6
FL-PRO INITIAL CALIBRATION DATA

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2110094

Instrument ID: SFID02 Calibration Date: 10/25/01

Column: RTX-5 ID: 0.53 (mm) Calibration Time: 1826

LAB FILE ID: RF5.1: CAL6 RF6.8: CAL7

COMPOUND	RF5.1	RF6.8
TPH (C8-C40)	3533879.8	3434516.5
Nonatriacontane	3930723.3	3657583.3
ortho-Terphenyl	3482320.0	3558600.0

Calibration Criteria Is Stated In Narrative

FORM 6
FL-PRO INITIAL CALIBRATION DATA

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2110094

Instrument ID: SFID02 Calibration Date: 10/25/01

Column: RTX-5 ID: 0.53 (mm) Calibration Time: 1826

COMPOUND	CURVE	COEFFICENTS A0	COEFFICENTS A1	%RSD OR R^2
TPH (C8-C40)	LINR	-0.4398584	3.079e-007	0.999
Nonatriacontane	AVRG		4524010.95	12.6
ortho-Terphenyl	AVRG		3566748.57	2.9

Calibration Criteria Is Stated In Narrative

FORM 6
FL-PRO INITIAL CALIBRATION DATA

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2110094

Instrument ID: SFID02 Calibration Date: 10/25/01

Column: RTX-5 ID: 0.53 (mm) Calibration Time: 1826

LAB FILE ID: RT1: CAL1 RT2: CAL2 RT3: CAL3
RT4: CAL4 RT5: CAL5

COMPOUND	RT1	RT2	RT3	RT4	RT5
TPH (C8-C40)	6.989	6.989	6.989	6.989	6.989
Nonatriacontane	10.277	10.243	10.313	10.197	10.277
ortho-Terphenyl	4.713	4.707	4.723	4.690	4.717

COMMENTS: _____

FORM 6
FL-PRO INITIAL CALIBRATION DATA

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2110094

Instrument ID: SFID02 Calibration Date: 10/25/01

Column: RTX-5 ID: 0.53 (mm) Calibration Time: 1826

LAB FILE ID: RT6: CAL6 RT7: CAL7

COMPOUND	RT6	RT7	MEAN RT	RT WINDOW FROM	RT WINDOW TO
TPH (C8-C40)	6.989	6.989	6.989	1.700	12.278
Nonatriacontane	10.287	10.330	10.275	9.977	10.577
ortho-Terphenyl	4.713	4.723	4.712	4.647	4.787

COMMENTS: _____

FORM 6
FL-PRO INITIAL CALIBRATION DATA

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2110094

Instrument ID: SFID02 Calibration Date: 10/25/01

Column: RTX-5 ID: 0.53 (mm) Calibration Time: 1826

LAB FILE ID: RT1: CAL1 RT2: CAL2 RT3: CAL3
RT4: CAL4 RT5: CAL5

COMPOUND	RT1	RT2	RT3	RT4	RT5
TPH (C8-C40)	6.989	6.989	6.989	6.989	6.989
Nonatriacontane	10.277	10.243	10.313	10.197	10.277
ortho-Terphenyl	4.713	4.707	4.723	4.690	4.717

COMMENTS: _____

FORM 6
FL-PRO INITIAL CALIBRATION DATA

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2110094

Instrument ID: SFID02 Calibration Date: 10/25/01

Column: RTX-5 ID: 0.53 (mm) Calibration Time: 1826

LAB FILE ID: RT6: CAL6 RT7: CAL7

COMPOUND	RT6	RT7	MEAN RT	RT WINDOW FROM	RT WINDOW TO
TPH (C8-C40)	6.989	6.989	6.989	1.700	12.278
Nonatriacontane	10.287	10.330	10.275	9.977	10.577
ortho-Terphenyl	4.713	4.723	4.712	4.643	4.783

COMMENTS: _____

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2110094

Instrument ID: SFID02 Calibration Date: 10/25/01 Time: 1933

Lab File ID: CCV1 Init. Calib. Date: 10/25/01

Init. Calib. Time: 1826

GC Column: RTX-5 ID: 0.53 (mm)

COMPOUND	SAMPLE AMOUNT	2.55 AMOUNT	CURVE	%D	MAX %d
TPH (C8-C40)	2.6	2.6	LINR	0.0	25.0
Nonatriacontane	0.32	0.30	AVRG	6.7	25.0
ortho-Terphenyl	0.050	0.050	AVRG	0.0	25.0

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2110094

Instrument ID: SFID02 Calibration Date: 10/26/01 Time: 0144

Lab File ID: CCV2 Init. Calib. Date: 10/25/01

Init. Calib. Time: 1826

GC Column: RTX-5 ID: 0.53 (mm)

COMPOUND	SAMPLE AMOUNT	2.55 AMOUNT	CURVE	%D	MAX %d
TPH (C8-C40)	2.6	2.6	LINR	0.0	25.0
Nonatriacontane	0.32	0.30	AVRG	6.7	25.0
ortho-Terphenyl	0.050	0.050	AVRG	0.0	25.0

FORM VII SV-1

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2110094

Instrument ID: SFID02 Calibration Date: 10/26/01 Time: 1317

Lab File ID: CCV1 Init. Calib. Date: 10/25/01

Init. Calib. Time: 1826

GC Column: RTX-5 ID: 0.53 (mm)

COMPOUND	SAMPLE AMOUNT	2.55 AMOUNT	CURVE	%D	MAX %d
TPH (C8-C40)	3.0	2.6	LINR	15.4	25.0
Nonatriacontane	0.23	0.30	AVRG	23.3	25.0
ortho-Terphenyl	0.053	0.050	AVRG	6.0	25.0

FORM VII SV-1

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2110094

Instrument ID: SFID02 Calibration Date: 10/26/01 Time: 2051

Lab File ID: CCV2 Init. Calib. Date: 10/25/01

Init. Calib. Time: 1826

GC Column: RTX-5 ID: 0.53 (mm)

COMPOUND	SAMPLE AMOUNT	2.55 AMOUNT	CURVE	%D	MAX %d
TPH (C8-C40)	2.7	2.6	LINR	3.8	25.0
Nonatriacontane	0.24	0.30	AVRG	20.0	25.0
ortho-Terphenyl	0.051	0.050	AVRG	2.0	25.0

FORM VII SV-1

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2110094

Instrument ID: SFID02 Calibration Date: 10/27/01 Time: 0306

Lab File ID: CCV3 Init. Calib. Date: 10/25/01

Init. Calib. Time: 1826

GC Column: RTX-5 ID: 0.53 (mm)

COMPOUND	SAMPLE AMOUNT	2.55 AMOUNT	CURVE	%D	MAX %d
TPH (C8-C40)	2.8	2.6	LINR	7.7	25.0
Nonatriacontane	0.33	0.30	AVRG	10.0	25.0
ortho-Terphenyl	0.054	0.050	AVRG	8.0	25.0

FORM VII SV-1

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2110094

Instrument ID: SFID02 Calibration Date: 10/27/01 Time: 0521

Lab File ID: CCV4 Init. Calib. Date: 10/25/01

Init. Calib. Time: 1826

GC Column: RTX-5 ID: 0.53 (mm)

COMPOUND	SAMPLE AMOUNT	2.55 AMOUNT	CURVE	%D	MAX %d
TPH (C8-C40)	2.8	2.6	LINR	7.7	25.0
Nonatriacontane	0.32	0.30	AVRG	6.7	25.0
ortho-Terphenyl	0.054	0.050	AVRG	8.0	25.0

7B
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2110094

Instrument ID: SFID02 Calibration Date: 10/27/01 Time: 1929

Lab File ID: CCV5 Init. Calib. Date: 10/25/01

Init. Calib. Time: 1826

GC Column: RTX-5 ID: 0.53 (mm)

COMPOUND	SAMPLE AMOUNT	2.55 AMOUNT	CURVE	%D	MAX %d
TPH (C8-C40)	2.7	2.6	LINR	3.8	25.0
Nonatriacontane	0.29	0.30	AVRG	3.3	25.0
ortho-Terphenyl	0.054	0.050	AVRG	8.0	25.0

FORM VII SV-1

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2110094

Instrument ID: SFID02 Calibration Date: 10/29/01 Time: 1656

Lab File ID: CCV1 Init. Calib. Date: 10/25/01

Init. Calib. Time: 1826

GC Column: RTX-5 ID: 0.53 (mm)

COMPOUND	SAMPLE AMOUNT	2.55 AMOUNT	CURVE	%D	MAX %d
TPH (C8-C40)	2.8	2.6	LINR	7.7	25.0
Nonatriacontane	0.35	0.30	AVRG	16.7	25.0
ortho-Terphenyl	0.059	0.050	AVRG	18.0	25.0

7B
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: PEL LABORATORIES INC. Contract: CECIL FIELD

Lab Code: PEL Case No.: SAS No.: SDG No.: 2110094

Instrument ID: SFID02 Calibration Date: 10/29/01 Time: 2307

Lab File ID: CCV2 Init. Calib. Date: 10/25/01

Init. Calib. Time: 1826

GC Column: RTX-5 ID: 0.53 (mm)

COMPOUND	SAMPLE AMOUNT	2.55 AMOUNT	CURVE	%D	MAX %d
TPH (C8-C40)	2.8	2.6	LINR	7.7	25.0
Nonatriacontane	0.30	0.30	AVRG	0.0	25.0
ortho-Terphenyl	0.057	0.050	AVRG	14.0	25.0

FORM VII SV-1

Chain of Custody Documentation

2110-094 KWB

'H2M Hill Constructors, Inc.
5 Perimeter Center Place, Suite 700
'anta, GA 30346-1278
l No (770) 604-9182 ; Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER
163151-17 page 1 of 2

OJECT 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.):
AS Cecil Field	163151	PEL / Darcy Wiseman	Jennifer Zimmerman / J.A Jones Env. Services	6219 Authority Avenue, Jacksonville, FL 32215 PH: 904-777-4812 Fax: 904-777-4262
OJECT 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.):
uth Fuel Farm - Annual Soil mpling	CTO 062	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
OJECT 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.):
ll Canelos	904-777-4182	Ph: (813) 247-2805 Fax: (813) 248-1537		

ANALYSES REQUIRED (Include Method Numbers)

EM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	Aromatics by 8021B	8310	FL-PRO								SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	062-B7-S-1018-01	boring B-7 @ 2 ft	soil	10/18/01	13:15	III/C	14	4	½	½								Grab	OVA = 2.4 ppm	01
2	062-B31-S-1018-01	boring B-31 @ 3 ft	soil	10/18/01	14:55	III/C	14	4	½	½								Grab	OVA = 43 ppm	02
3	062-B41-S-1018-01	boring B-41 @ 4 ft	soil	10/18/01	14:35	III/C	14	4	½	½								Grab	OVA = 76 ppm	03
4	062-B70-S-1018-01	boring B-70 @ 4 ft	soil	10/18/01	12:50	III/C	14	4	½	½								Grab	OVA = 9 ppm	04
5	062-B96-S-1018-01	boring B-96 @ 4 ft	soil	10/18/01	11:35	III/C	14	4	½	½								Grab	OVA = 9897 ppm	05
6	062-B99-S-1018-01	boring B-99 @ 4 ft	soil	10/18/01	14:20	III/C	14	4	½	½								Grab	OVA = 342 ppm	06
7	062-B101-S-1018-01	boring B-101 @ 4 ft	soil	10/18/01	14:00	III/C	14	4	½	½								Grab	OVA = 39 ppm	MS/MSD 07/08/09
8	062-B104-S-1018-01	boring B-104 @ 4 ft	soil	10/18/01	11:05	III/C	14	4	½	½								Grab	OVA = 131 ppm	10
9	062-B106-S-1018-01	boring B-106 @ 4 ft	soil	10/18/01	13:40	III/C	14	4	½	½								Grab	OVA = 176 ppm	11
10	062-B110-S-1018-01	boring B-110 @ 4 ft	soil	10/18/01	10:45	III/C	14	4	½	½								Grab	OVA = 23 ppm	12

MPLER(S) AND COMPANY: (please print)
ndy Dumaop / Anthony Cain
A. Jones Environmental Services

COURIER AND SHIPPING NUMBER:
FedEx/ Tracking #7916 8240 5757, 7916 8240 5849.

SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:
Temp upon rec't 4°C pH<2 (8021 20 & 22 Pro's 2
Encores rec'd

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
nted Name and Signature: Dumaop	10/18/01	16:50	Printed Name and Signature: FedEx/ Tracking #7916 8240 5757, 7916 8240 5849.	10/18/01	16:50
nted Name and Signature:			Printed Name and Signature: KEITH W BRENNER	10-19-01	10:00

Form CC1001, Rev 02/00

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

H2M Hill Constructors, Inc.
1 Perimeter Center Place, Suite 700
uma, GA 30346-1278
No (770) 604-9182 ; Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

2110-094 [illegible]

COC NUMBER
163151-17 page 2 of 2

OJECT 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.):
AS Cecil Field	163151	PEL / Darcy Wiseman	Jennifer Zimmerman / J.A Jones Env. Services	6219 Authority Avenue, Jacksonville, FL 32215 PH: 904-777-4812 Fax: 904-777-4262
OJECT 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.):
uth Fuel Farm - Annual Soil mpling	CTO 062	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
OJECT 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.):
ll Canelos	904-777-4182	Ph: (813) 247-2805 Fax: (813) 248-1537		

ANALYSES REQUIRED (Include Method Numbers)

EM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	Aromatics by 8021B	8310	FL-PRO								SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	062-B137-S-1018-01	boring B-137 @ 2 ft	soil	10/18/01	10:55	III/C	14	4	½	½								Grab	OVA = 0.25 ppm	13
2	062-B146-S-1018-01	boring B-146 @ 4 ft	soil	10/18/01	10:35	III/C	14	4	½	½								Grab	OVA = 39.1 ppm	14
3	062-B158-S-1018-01	boring B-158 @ 4 ft	soil	10/18/01	10:20	III/C	14	4	½	½								Grab	OVA = 2.65 ppm	15
4	062-B167-S-1018-01	boring B-167 @ x 4 ft	soil	10/18/01	9:40	III/C	14	4	½	½								Grab	OVA = 2600 ppm	16
5	062-B189-S-1018-01	boring B-189 @ 4 ft	soil	10/18/01	10:05	III/C	14	4	½	½								Grab	OVA = 0.4 ppm	17
6	062-DUP1-S-1018-01	Duplicate #1	soil	10/18/01	--	III/C	14	4	½	½								Grab	--	18
7	062-DUP2-S-1018-01	Duplicate #2	soil	10/18/01	--	III/C	14	4	½	½								Grab	--	19
8	062-EB1-W-1018-01	Equipment Blank #1	Wtr	10/18/01	11:15	III/C	14	3	1	1								Grab	--	20
9	062-TB1-W-1018-01	Trip Blank #1	Wtr	10/18/01	--	III/C	14	3										prepared by lab	--	21
0	062-TB2-W-1018-01	Trip Blank #2	Wtr	10/18/01	--	III/C	14	3										prepared by lab		22
1	n/a	Temperature Blank	Wtr	--							2							prepared by lab	--	

PLER(S) AND COMPANY: (please print)	COURIER AND SHIPPING NUMBER:	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:
ndy Dumaop / Anthony Cain . Jones Environmental Services	FedEx/ Tracking #7916 8240 5757, 7916 8240 5849.	

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
ted Name and Signature: Dumaop [signature]	10/18/01	16:50	Printed Name and Signature: FedEx/ Tracking #7916 8240 5757, 7916 8240 5849.	10/18/01	16:50
ted Name and Signature:			Printed Name and Signature: Keith W Brenner [signature]	10/19-01	10:00

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

Form CC1001, Rev 02/00

23

pH LOG SHEET

WO# 2110-094 By KMB

Client/Project CH2M HILL / NAS CECIL FIELD 163151 Date 10-19-01

PEL Sample Number	H2SO4 pH<2	HNO3 pH<2	NaOH pH>12	ZnAC/NaOH pH>9	HCL pH<2	Other _____ pH _____
20	(1) FLPRO				(3) 8021	
21					(3) 8021	
22					(3) 8021	

PEL LAB SAMPLE LOG IN SHEET

Client Information Project #: 2110-094

Client: CH2M HILL	Date Recd: 10-19-01
Project: NAS Cecil Field 163151	Due Date: 10-29-01
Log In Tech: KEITH	Recd Via: Client Crosstown (FedEx)
Comments:	Other:

SAMPLE VERIFICATION

	YES	NO		YES	NO
Samples/Cooler Secure	✓		All Smpls. on COC Accounted For	✓	
Samples Received on Ice	✓		All Samples Received Intact	✓	
Temperature WNL	✓		Sample Vol. Sufficient For Analysis	✓	
Temperature of Samples (°C) 4°C	✓		Samples Received W/I Hold Time	✓	
pH verified pH<2 (8021 202,22	✓		Are All Samples to be Analyzed	✓	
pH WNL pro 20)			Correct Sample Containers	✓	
Soil Origin Domestic	✓		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: (STND) / RUSH	✓	
COC Relinquished/Dated by Client	✓		Client Requests Verbal Results	✓	
COC Received/Dated by PEL	✓		Client Requests FAX Results	✓	
			* PEL to Conduct All Analysis		
			* 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 #:

2110-094 CH2M HILL / RECIL FIELD 163151

Sample #	Parameter	Rel'd	Rec'd	Date	Time
01-18	Dry Wt (s)	~	JP	10/22/01	3:30
01-18	Dry Wt (s)	JP	~	10/22/01	6:00 pm
01-~~02~~ 19	8021 (s)	~	JP	10/19/01	1445
01-~~02~~ 19	8021 (s)	Consumed			
20-22	8021 (w)	~	KM	10/25/01	1210
20-22	8021 (w)	KM	~	10/25/01	1610
01-18	8310 (s)	~	RK	10/25/01	1700
01-18	8310 (s)	RK	~	10/25/01	2215
20	8310 (w)	~	RK	10.24.01	10:10
20	8310 (w)	Consumed.			
01-18	FL PRO (s)	~ VD	10/25/01 JB	10/25/01	9:30AM
01-18	FL PRO (s)	(w) ~ 10-29-01			11:30 P.M.
20	FL PRO (w)	~	AV	10-25-	9:30
20	FL PRO (w)	Consumed			

Addendum

Letter of Acceptance

Customer Name:	CH2M HILL
Date & Time Received:	10-19-01; 10:00 AM
Date to be Reported:	11-2-01
Laboratory Submission Number/SDG:	2110094
Project:	NAS Cecil Field (South Fuel Farm)

Samples: The submission consisted of 22 samples with sample identification shown in the attached data tables.

Tests: The samples will be analyzed for EPA methods: 8021, 8310, and FLPRO.

Sample Custody/COC discrepancies:
None.

Notes: Due to the number of characters in the sample identifier, PEL has truncated the ID's. PEL will report using in house RL's and QC. Client notified 10-19-01.

Distribution of Report to:

1-CH2MHILL
Attn: Jennifer Zimmerman
Phone: 904-777-4262

2-CH2MHILL
Attn: Tatiana Romanova
Phone: 770-604-9182

Respectfully Submitted,

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 not necessarily indicative of the qualities of apparently identical or similar materials.

Log-in Report

Total of: 73 analyses on 20 samples (including QC) *22-Oct-01*

Report/SDG #: 2110094

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
062B7S101801	211009401	B-7 @ 2 ft	SO	10/18/01 1:15:00 PM	10/19/01 10:00:00 AM
Method					
8021	VOH			8021	
8310	PAH			8310	
Dry Weight	Dry Weight				
FL-PRO	Petroleum Hydrocarbons			FL-PRO	

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
062B31S101801	211009402	B-31 @ 3 ft	SO	10/18/01 2:55:00 PM	10/19/01 10:00:00 AM
Method					
8021	VOH			8021	
8310	PAH			8310	
Dry Weight	Dry Weight				
FL-PRO	Petroleum Hydrocarbons			FL-PRO	

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
062B41S101801	211009403	B-41 @ 4 ft	SO	10/18/01 2:35:00 PM	10/19/01 10:00:00 AM
Method					
8021	VOH			8021	
8310	PAH			8310	
Dry Weight	Dry Weight				
FL-PRO	Petroleum Hydrocarbons			FL-PRO	

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
062B70S101801	211009404	B-70 @ 4 ft	SO	10/18/01 12:50:00 PM	10/19/01 10:00:00 AM
Method					
8021	VOH			8021	
8310	PAH			8310	
Dry Weight	Dry Weight				
FL-PRO	Petroleum Hydrocarbons			FL-PRO	

1

Report/SDG #: 2110094

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
062B96S101801	211009405	B-96 @ 4 ft	SO	10/18/01 11:35:00 AM	10/19/01 10:00:00 AM
Method					
8021	VOH			8021	
8310	PAH			8310	
Dry Weight	Dry Weight				
FL-PRO	Petroleum Hydrocarbons			FL-PRO	

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
062B99S101801	211009406	B-99 @ 4 ft	SO	10/18/01 2:20:00 PM	10/19/01 10:00:00 AM
Method					
8021	VOH			8021	
8310	PAH			8310	
Dry Weight	Dry Weight				
FL-PRO	Petroleum Hydrocarbons			FL-PRO	

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
062B101S10180	211009407	B-101 @ 4 ft	SQ	10/18/01 2:00:00 PM	10/19/01 10:00:00 AM
Method					
8021	VOH			8021	
8310	PAH			8310	
Dry Weight	Dry Weight				
FL-PRO	Petroleum Hydrocarbons			FL-PRO	

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
062B104S10180	211009410	B-104 @ 4 ft	SO	10/18/01 11:05:00 AM	10/19/01 10:00:00 AM
Method					
8021	VOH			8021	
8310	PAH			8310	
Dry Weight	Dry Weight				
FL-PRO	Petroleum Hydrocarbons			FL-PRO	

Report/SDG #: 2110094

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
062B106S10180	211009411	B-106 @ 4 ft	SO	10/18/01 1:40:00 PM	10/19/01 10:00:00 AM
Method					
8021	VOH			8021	
8310	PAH			8310	
Dry Weight	Dry Weight				
FL-PRO	Petroleum Hydrocarbons			FL-PRO	

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
062B110S10180	211009412	B-110 @ 4 ft	SO	10/18/01 10:45:00 AM	10/19/01 10:00:00 AM
Method					
8021	VOH			8021	
8310	PAH			8310	
Dry Weight	Dry Weight				
FL-PRO	Petroleum Hydrocarbons			FL-PRO	

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
062B137S10180	211009413	B-137 @ 2 ft	SO	10/18/01 10:55:00 AM	10/19/01 10:00:00 AM
Method					
8021	VOH			8021	
8310	PAH			8310	
Dry Weight	Dry Weight				
FL-PRO	Petroleum Hydrocarbons			FL-PRO	

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
062B146S10180	211009414	B-146 @ 4 ft	SO	10/18/01 10:35:00 AM	10/19/01 10:00:00 AM
Method					
8021	VOH			8021	
8310	PAH			8310	
Dry Weight	Dry Weight				
FL-PRO	Petroleum Hydrocarbons			FL-PRO	

Report/SDG #: 2110094

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
062B158S10180	211009415	B-158 @ 4 ft	SO	10/18/01 10:20:00 AM	10/19/01 10:00:00 AM

Method		
8021	VOH	8021
8310	PAH	8310
Dry Weight	Dry Weight	
FL-PRO	Petroleum Hydrocarbons	FL-PRO

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
062B167S10180	211009416	B-167 @ x 4 ft	SO	10/18/01 9:40:00 AM	10/19/01 10:00:00 AM

Method		
8021	VOH	8021
8310	PAH	8310
Dry Weight	Dry Weight	
FL-PRO	Petroleum Hydrocarbons	FL-PRO

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
062B189S10180	211009417	B-189 @ 4 ft	SO	10/18/01 10:05:00 AM	10/19/01 10:00:00 AM

Method		
8021	VOH	8021
8310	PAH	8310
Dry Weight	Dry Weight	
FL-PRO	Petroleum Hydrocarbons	FL-PRO

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
062DUP1S10180	211009418	Duplicate #1	SO	10/18/01	10/19/01 10:00:00 AM

Method		
8021	VOH	8021
8310	PAH	8310
Dry Weight	Dry Weight	
FL-PRO	Petroleum Hydrocarbons	FL-PRO

Report/SDG #: 2110094

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
062DUP2S10180	211009419	Duplicate #2	SO	10/18/01	10/19/01 10:00:00 AM
Method					
8021	VOH			8021	
8310	PAH			8310	
Dry Weight	Dry Weight				
FL-PRO	Petroleum Hydrocarbons			FL-PRO	

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
062EB1W10180	211009420	Equipment	WQ	10/18/01 11:15:00 AM	10/19/01 10:00:00 AM
Method					
8021	VOH			8021	
8310	PAH			8310	
FL-PRO	Petroleum Hydrocarbons			FL-PRO	

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
062TB1W10180	211009421	Trip Blank #1	WQ	10/18/01	10/19/01 10:00:00 AM
Method					
8021	VOH			8021	

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
062TB2W10180	211009422	Trip Blank #2	WQ	10/18/01	10/19/01 10:00:00 AM
Method					
8021	VOH			8021	

2110-094
Raw Data
GC Volatile Organics
(Method 8021)

VGC 5 8021 VS102201a 10/22/01

1 CCV S1
2 CCV S2
3 LCS S1
4 Blk S1
5 LCS S2
6 Blk S2
7 Blk S1s
8 Blk S1d
9 211C 039 04D3 1/2500

VS102201

3 500 ppt std vs 5837 5949 5857
4 500 pptr
5 1 ppb
6 1 ppbr
7 2 ppb vs 5837 5948 5794 5856
8 2 ppbr
9 5 ppb
10 10 ppb
11 20 ppb
12 30 ppb
13 40 ppb
14 50 ppb
15 100 ppb
16 100 ppbr
1 20 ppbr

KM
10/23/01

SIGNATURE DATE
READ AND UNDERSTOOD DATE

PROJECT NAME _____ DATE BOOK NO. _____

GC5 8021 V5102501 10/25/01 KM

1 CCV51 VOS 5837 5948 5794 5856
2 CCV52
3 LCS51 VOS 5837 5948 5834 5909
4 Blk 52
5 2110 094 20
6 21
7 22
2110 094 021 R
8 Blk51ms
9 Blk51 msd
10 Blk51 u
11 CCV53
12 CCV54

KM
10/26/01

SIGNATURE _____ DATE _____ 20 _____
READ AND UNDERSTOOD _____ DATE _____ 20 _____

VGCG 8021 VE10230Pc 10/23/01 KM

1 100 ppb vos 5792 5948 5856 5794
2 50 ppb
3 40 ppb
4 30 ppb
5 20 ppb
6 10 ppb
7 5 ppb
8 2 ppb
9 2 ppbr
10 1 ppb vos 5949 5857
11 1 ppbr
12 500 ppt
13 500 pptr

VGCG 8021 VE10230P 10/23/01 KM

1 ccv61 vos 5792 5948 5856 5794
2 ccv62
3 LCS61 vos 5834 5909
4 Blk61
5 Blk61s
6 Blk61d
7 2110 111-10
8 111-2
9 -1
10 -3
11 -4
12 -5
13 -6 → LCS62 Blk61u.
14 -7
15 -8 } Did not run

KM 10/24/01

VGC6 | 8021 | V61024C1 | 10/24/01 | KM | VGC6

1 CCV61 vcs 5792 5948 5852 5794
2 CCV62
3 LCS61 vcs 5834 5909
4 LCS62
5 BLK61
6 BLK61s
7 BLK61d
8 2110 094 01 5.6016g
9 02 5.4149g
10 03 5.3597g
11 04 4.7728g
12 06 5.1026g
13 05 5.3701g
14 CBLK
15 CCV63
16 CCV64
17 LCS63
18 BLK62
19 2110 107 01 5.4122g
20 02 6.1842g
21 03 6.2413g
22 04 5.2574g
23 CCV65

KM
10/25/01

KM VGC6 8021 V6102501 10/25/01 KM

1 CCV61 VCO 5792 5948 5856 5794
2 CCV62
3 LCS61 VCO 5834 5909
4 2110 094 08S 5.1227g
5 09d 4.8944g
6 BLK61
7 BLK61MS
8 BLK61MSD
9 LCS62
10 2110 094 07 5.4631g
11 10 4.8246g
12 11 5.0580g
13 CCV63
14 CCV64
15 2110 094 12 5.7251g
16 13 4.5539g
17 14 4.3393g
18 15 4.8619g
19 16 6.0152g
20 17 4.8937g
21 18 4.9023g
22 19 4.5916g
23

KM
10/26/01

(1)

VGC6 | 8021 VG102901 | 10/29/01 | KM | VGC6

1 CCV61 vco 5792 5948 5794
2 CCV62
3 CCV63
4 LCS61 vco 5854 5909
5 BLK61
6 BLK61ms
7 BLK61msd
8 ~~2110 094 05R~~ ~~2110 145 04~~ KM 10/29/01 4.0857g
9 2110 094 06R 5.0172g
10 10R 4.4731g
11 11R 4.7266g
12 12R 5.0698g
13 13R 4.337g
14 CCV6A
15 CCV65
16 mBLK62
17 LCS62
18 mBLK62ms
19 mBLK62msd
20 211C 094 14R 5.1275g
21 19R 5.508g
22 17R 5.5558g
23 18R 5.133g
24 16D 5.4553g 100ul 91.6dil
25 16R
26 CCV66
27 CCV67

KM

10/30/01

VOLS Sample Receiving Sheet

Method: EPA Method 160.1 DRY WEIGHT

Date: 11/01/01

ANALYST:

Enter Batch Number

Fields with yellow background must have data entered

Vial No	Lab ID	Client ID	Sample Type	Sample Wt (g)	Time	Preservative	Comments
	211009401		soil	5.6016	14:54	h2o	
	211009401		soil	5.6539	14:55	h2o	
	211009402		soil	5.4149	14:56	h2o	
	211009402		soil	5.2591	14:57	h2o	
	211009403		soil	5.3597	14:58	h2o	
	211009403		soil	5.3058	14:59	h2o	
	211009404		soil	4.7728	15:00	h2o	
	211009404		soil	4.8374	15:01	h2o	
	211009405		soil	5.1026	15:02	h2o	odor
	211009405		soil	5.3932	15:03	h2o	odor
	211009406		soil	5.3701	15:04	h2o	
	211009406		soil	5.2612	15:05	h2o	
	211009407		soil	5.4631	15:07	h2o	
	211009407		soil	4.9845	15:08	h2o	
	211009408		soil	5.1227	15:09	h2o	
	211009408		soil	5.0018	15:12	h2o	
	211009409		soil	4.8944	15:13	h2o	
	211009409		soil	5.1777	15:14	h2o	
	211009410		soil	4.8246	15:15	h2o	
	211009410		soil	5.0244	15:16	h2o	
	211009411		soil	5.058	15:17	h2o	
	211009411		soil	4.6546	15:18	h2o	
	211009412		soil	5.7251	15:19	h2o	
	211009412		soil	5.3665	15:20	h2o	
	211009413		soil	4.7143	15:22	h2o	
	211009413		soil	4.5539	15:22	h2o	
	211009414		soil	4.9932	15:23	h2o	
	211009414		soil	4.3393	15:24	h2o	
	211009415		soil	4.935	15:25	h2o	
	211009415		soil	4.8019	15:25	h2o	
	211009416		soil	5.4912	15:27	h2o	odor
	211009416		soil	6.0152	15:28	h2o	odor

Analyst:

Date:

VOLS Sample Log-In Sheet

Method: EPA Method 160.1 DRY WEIGHT

Date: 11/01/01

ANALYST:

Enter

Fields with yellow background must have data entered

Vial No	Lab ID	Client ID	Sample Type	Sample Wt (g)	Time	Preservative	Comments
	211011702		Soil	4.6008	14:01	H2O	
	211011706		Soil	4.5252	14:03	H2O	
	211011707		Soil	4.4569	14:04	H2O	
	211009405		soil	4.0857	15:31	H2O	
	211009406		soil	5.0172	15:36	H2O	
	211009410		soil	4.4731	15:38	H2O	
	211009411		soil	4.7266	15:39	H2O	
	211009412		soil	5.0698	15:40	H2O	
	211009413		soil	4.337	15:41	H2O	
	211016301		soil	4.5568	15:49	MEOH	
	211016302		soil	4.727	15:51	MEOH	
	211016303		soil	4.6512	15:52	MEOH	
	211009414		soil	5.4275	16:55	H2O	
	211009419		soil	5.508	16:56	H2O	
	211009417		soil	5.5558	16:57	H2O	
	211009418		soil	5.133	16:58	H2O	
	211009416		soil	4.7512	16:59	H2O	

Analyst:

Date:

PEL Laboratories

Data file : \\REINHARD\ee\chem\vgc5.i\V5102201.b\500PPTR.D
Lab Smp Id: 500PPTSTD Client Smp ID: 500PPTSTD
Inj Date : 22-OCT-2001 17:18
Operator : Inst ID: vgc5.i
Smp Info : 500PPTSTD
Misc Info :
Comment :
Method : \\Reinhard\ee\chem\vgc5.i\V5102201.b\8021.m
Meth Date : 01-Nov-2001 15:03 kavita Quant Type: ISTD
Cal Date : 23-OCT-2001 01:55 Cal File: 100PPB.D
Als bottle: 4 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

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	1 dichlorodifluoromethane	AIB1A	4.630	4.630	(0.369)	72956	0.50000	0.48(aM)
	2 chloromethane	AIB1A	5.346	5.346	(0.426)	11758	0.50000	0.64(aM)
	3 vinyl chloride	AIB1A	5.440	5.440	(0.433)	50896	0.50000	0.30(aM)
	4 bromomethane	AIB1A	6.476	6.476	(0.516)	18078	0.50000	0.20(aM)
	5 chloroethane	AIB1A	6.540	6.540	(0.521)	76884	0.50000	0.34(aM)
	6 trichlorofluoromethane	AIB1A	7.030	7.030	(0.560)	66277	0.50000	0.32(aM)
	7 1,1,2trichlorotrifluoroethane	AIB1A	7.936	7.936	(0.632)	86787	0.50000	0.30
	8 1,1-dichloroethene	AIB1A	8.280	8.280	(0.659)	148499	0.50000	0.48(aM)
	9 methylene chloride	AIB1A	9.263	9.263	(0.738)	330747	0.50000	0.78(aM)
	10 MTBE	FID2B	9.416	9.416	(0.653)	2678	0.50000	0.52(aM)
	11 trans 1,2-dichloroethene	AIB1A	9.763	9.763	(0.778)	165703	0.50000	0.49(a)
M	12 1,2-Dichloroethene (tot)	AIB1A				306087	1.00000	0.92(a)
	13 1,1-dichloroethane	AIB1A	10.623	10.623	(0.846)	135843	0.50000	0.40(a)
	14 cis-1,2-dichloroethene	AIB1A	11.876	11.876	(0.946)	140384	0.50000	0.43(a)
	15 chloroform	AIB1A	12.203	12.203	(0.972)	230735	0.50000	0.52(a)
*	16 Bromochloromethane	AIB1A	12.556	12.556	(1.000)	7484118	30.0000	
	17 1,1,1-trichloroethane	AIB1A	13.066	13.066	(1.041)	260782	0.50000	0.66(a)
	18 carbon tetrachloride	AIB1A	13.653	13.653	(1.087)	206408	0.50000	0.50(a)
	19 1,2-dichloroethane	AIB1A	13.933	13.933	(1.110)	197875	0.50000	0.57(a)
	20 Benzene	FID2B	13.973	13.973	(0.970)	8500	0.50000	0.61(a)
*	21 Fluorobenzene	FID2B	14.410	14.410	(1.000)	252116	30.0000	
	22 trichloroethene	AIB1A	15.363	15.363	(1.224)	181024	0.50000	0.49(aM)

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
	23 1,2-dichloropropane	AIB1A	15.770	15.770	(1.256)	197496	0.50000	0.61(aM)
	24 bromodichloromethane	AIB1A	16.366	16.366	(1.303)	160683	0.50000	0.51(a)
	25 cis-1,3-dichloropropene	AIB1A	17.843	17.843	(1.421)	143144	0.50000	0.49(a)
	26 Toluene	FID2B	18.886	18.886	(1.311)	12097	0.50000	0.90(a)
	27 trans-1,3-dichloropropene	AIB1A	19.486	19.486	(1.552)	112292	0.50000	0.49(aM)
	28 1,1,2-trichlorethane	AIB1A	20.090	20.090	(1.600)	171387	0.50000	0.54(aM)
	29 tetrachloroethene	AIB1A	21.440	21.440	(1.707)	224582	0.50000	0.56(aM)
	30 dibromochloromethane	AIB1A	22.310	22.310	(1.777)	87794	0.50000	0.42(aM)
	31 chlorobenzene	AIB1A	24.870	24.870	(1.981)	57697	0.50000	0.37(aM)
	32 Ethylbenzene	FID2B	25.016	25.016	(1.736)	11244	0.50000	0.88(a)
	33 m,p-xylene	FID2B	25.323	25.323	(1.757)	28846	1.00000	2.0
M	34 Xylene (tot)	FID2B				38135	1.50000	2.8
	35 o-xylene	FID2B	26.900	26.900	(1.867)	9289	0.50000	0.82(a)
	36 bromoform	AIB1A	28.183	28.183	(2.244)	34338	0.50000	0.30(aM)
$	37 1,4-dichlorobutane	AIB1A	28.470	28.470	(2.267)	374550	0.50000	1.5(M)
	38 1,1,2,2-tetrachloroethane	AIB1A	28.713	28.713	(2.287)	170904	0.50000	0.77(a)
$	39 4-bromofluorobenzene	FID2B	28.940	28.940	(2.008)	23919	0.50000	1.6(M)
	40 1,3-dichlorobenzene	AIB1A	31.336	31.336	(2.496)	84422	0.50000	0.47(a)
	41 1,4-dichlorobenzene	AIB1A	31.523	31.523	(2.510)	76756	0.50000	0.35(aM)
	42 1,2-dichlorobenzene	AIB1A	32.090	32.090	(2.556)	106542	0.50000	0.55(a)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

PEL Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vgc5.i
Lab File ID: 500PPTR.D
Lab Smp Id: 500PPTSTD
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\Reinhard\ee\chem\vgc5.i\V5102201.b\8021.m
Misc Info:

Calibration Date: 22-OCT-2001
Calibration Time: 23:35
Client Smp ID: 500PPTSTD
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	7664618	3832309	15329236	7484118	-2.35
21 Fluorobenzene	256729	128365	513458	252116	-1.80

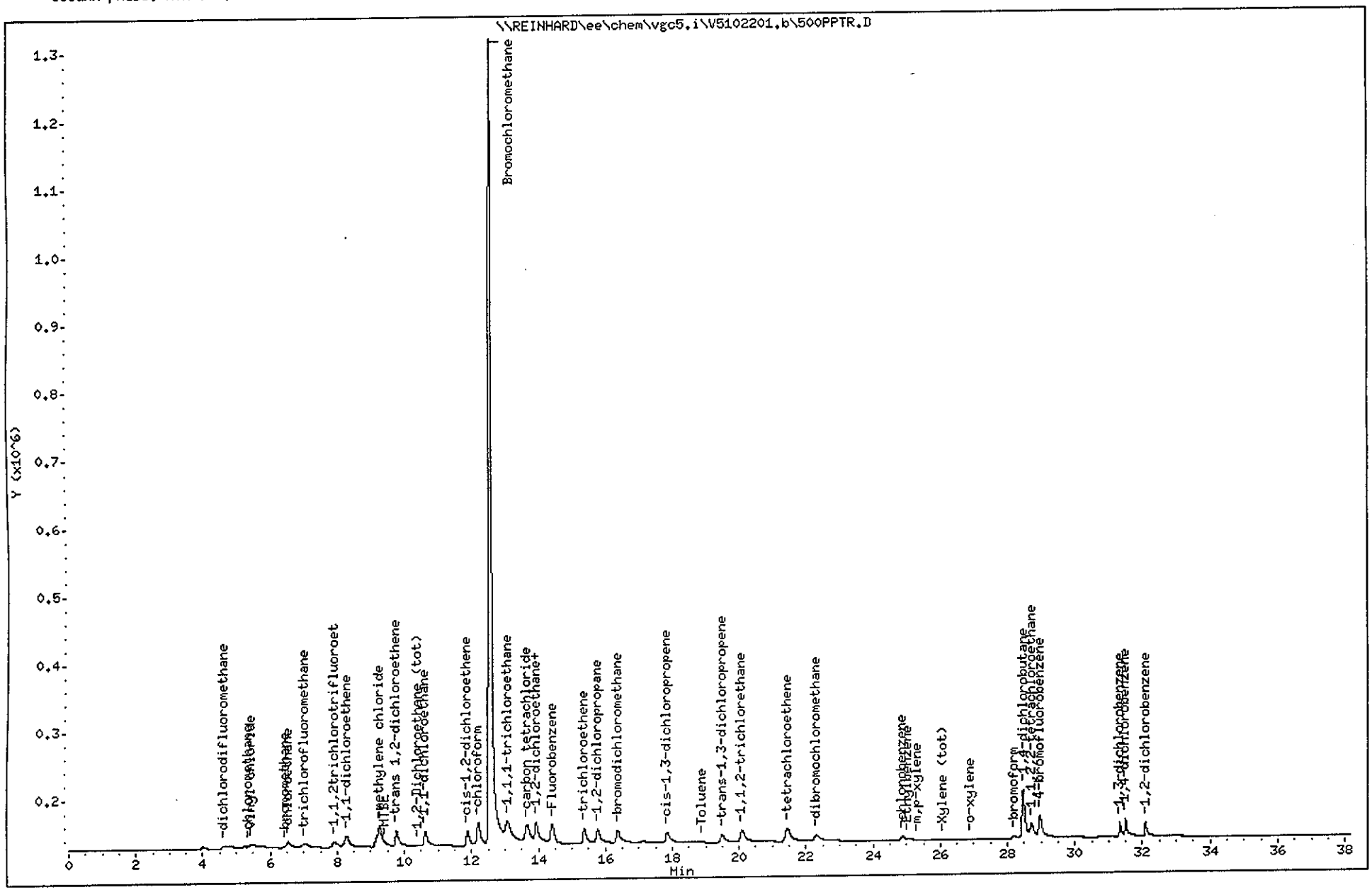
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	12.53	12.03	13.03	12.56	0.21
21 Fluorobenzene	14.38	13.88	14.88	14.41	0.19

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\REINHARD\ee\chem\vgc5.i\V5102201.b\500PPTR.D
Date : 22-OCT-2001 17:18
Client ID: 500PPTSTD
Sample Info: 500PPTSTD
Purge Volume: 5.0
Column phase: RTX 502.2

Instrument: vgc5.i

Operator:
Column diameter: 0.53



PEL Laboratories

Data file : \\REINHARD\ee\chem\vgc5.i\V5102201.b\1PPB.D
Lab Smp Id: 1PPBSTD Client Smp ID: 1PPBSTD
Inj Date : 22-OCT-2001 18:06
Operator : Inst ID: vgc5.i
Smp Info : 1PPBSTD
Misc Info :
Comment :
Method : \\Reinhard\ee\chem\vgc5.i\V5102201.b\8021.m
Meth Date : 01-Nov-2001 15:03 kavita Quant Type: ISTD
Cal Date : 23-OCT-2001 01:55 Cal File: 100PPB.D
Als bottle: 5 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

	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	(0.368)	114856	1.00000	0.74 (aM)
	2 chloromethane	AIB1A	5.243	5.243	(0.418)	13984	1.00000	0.73 (aM)
	3 vinyl chloride	AIB1A	5.426	5.426	(0.432)	130370	1.00000	0.73 (aM)
	4 bromomethane	AIB1A	6.513	6.513	(0.519)	86252	1.00000	0.93 (aM)
	5 chloroethane	AIB1A	6.526	6.526	(0.520)	197478	1.00000	0.83 (aM)
	6 trichlorofluoromethane	AIB1A	7.016	7.016	(0.559)	178410	1.00000	0.83 (aM)
	7 1,1,2trichlorotrifluoroethane	AIB1A	7.916	7.916	(0.630)	179975	1.00000	0.60
	8 1,1-dichloroethene	AIB1A	8.273	8.273	(0.659)	304403	1.00000	0.96 (a)
	9 methylene chloride	AIB1A	9.256	9.256	(0.737)	509243	1.00000	1.2 (a)
	10 MTBE	FID2B	9.420	9.420	(0.654)	5202	1.00000	1.0
	11 trans 1,2-dichloroethene	AIB1A	9.756	9.756	(0.777)	304680	1.00000	0.87 (a)
M	12 1,2-Dichloroethene (tot)	AIB1A				576937	2.00000	1.7
	13 1,1-dichloroethane	AIB1A	10.613	10.613	(0.845)	272507	1.00000	0.78 (a)
	14 cis-1,2-dichloroethene	AIB1A	11.873	11.873	(0.946)	272257	1.00000	0.80 (a)
	15 chloroform	AIB1A	12.200	12.200	(0.972)	421253	1.00000	0.91 (a)
*	16 Bromochloromethane	AIB1A	12.556	12.556	(1.000)	7751397	30.0000	
	17 1,1,1-trichloroethane	AIB1A	13.076	13.076	(1.041)	421540	1.00000	1.0
	18 carbon tetrachloride	AIB1A	13.653	13.653	(1.087)	378527	1.00000	0.89 (a)
	19 1,2-dichloroethane	AIB1A	13.933	13.933	(1.110)	347935	1.00000	0.96 (a)
	20 Benzene	FID2B	13.976	13.976	(0.970)	12754	1.00000	0.94 (a)
*	21 Fluorobenzene	FID2B	14.410	14.410	(1.000)	244621	30.0000	
	22 trichloroethene	AIB1A	15.356	15.356	(1.223)	319178	1.00000	0.83 (a)

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
	23 1,2-dichloropropane	AIB1A	15.770	15.770	(1.256)	339185	1.00000	1.0
	24 bromodichloromethane	AIB1A	16.363	16.363	(1.303)	291921	1.00000	0.89(a)
	25 cis-1,3-dichloropropene	AIB1A	17.840	17.840	(1.421)	268022	1.00000	0.89(a)
	26 Toluene	FID2B	18.890	18.890	(1.311)	17443	1.00000	1.3
	27 trans-1,3-dichloropropene	AIB1A	19.480	19.480	(1.551)	186120	1.00000	0.79(aM)
	28 1,1,2-trichlorethane	AIB1A	20.080	20.080	(1.599)	258645	1.00000	0.78(a)
	29 tetrachloroethene	AIB1A	21.430	21.430	(1.707)	332046	1.00000	0.80(aM)
	30 dibromochloromethane	AIB1A	22.296	22.296	(1.776)	186829	1.00000	0.85(aM)
	31 chlorobenzene	AIB1A	24.860	24.860	(1.980)	130659	1.00000	0.80(aM)
	32 Ethylbenzene	FID2B	25.026	25.026	(1.737)	16924	1.00000	1.4
	33 m,p-xylene	FID2B	25.323	25.323	(1.757)	41800	2.00000	3.0
M	34 Xylene (tot)	FID2B				55536	3.00000	4.2
	35 o-xylene	FID2B	26.900	26.900	(1.867)	13736	1.00000	1.2
	36 bromoform	AIB1A	28.173	28.173	(2.244)	72504	1.00000	0.61(a)
$	37 1,4-dichlorobutane	AIB1A	28.470	28.470	(2.267)	360073	1.00000	1.4(M)
	38 1,1,2,2-tetrachloroethane	AIB1A	28.713	28.713	(2.287)	276104	1.00000	1.2
$	39 4-bromofluorobenzene	FID2B	28.940	28.940	(2.008)	30502	1.00000	2.1(M)
	40 1,3-dichlorobenzene	AIB1A	31.330	31.330	(2.495)	154804	1.00000	0.83(a)
	41 1,4-dichlorobenzene	AIB1A	31.496	31.496	(2.508)	218074	1.00000	0.97(aM)
	42 1,2-dichlorobenzene	AIB1A	32.083	32.083	(2.555)	194222	1.00000	0.96(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

PEL Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vgc5.i
Lab File ID: 1PPB.D
Lab Smp Id: 1PPBSTD
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\Reinhard\ee\chem\vgc5.i\V5102201.b\8021.m
Misc Info:

Calibration Date: 22-OCT-2001
Calibration Time: 23:35
Client Smp ID: 1PPBSTD
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	7664618	3832309	15329236	7751397	1.13
21 Fluorobenzene	256729	128365	513458	244621	-4.72

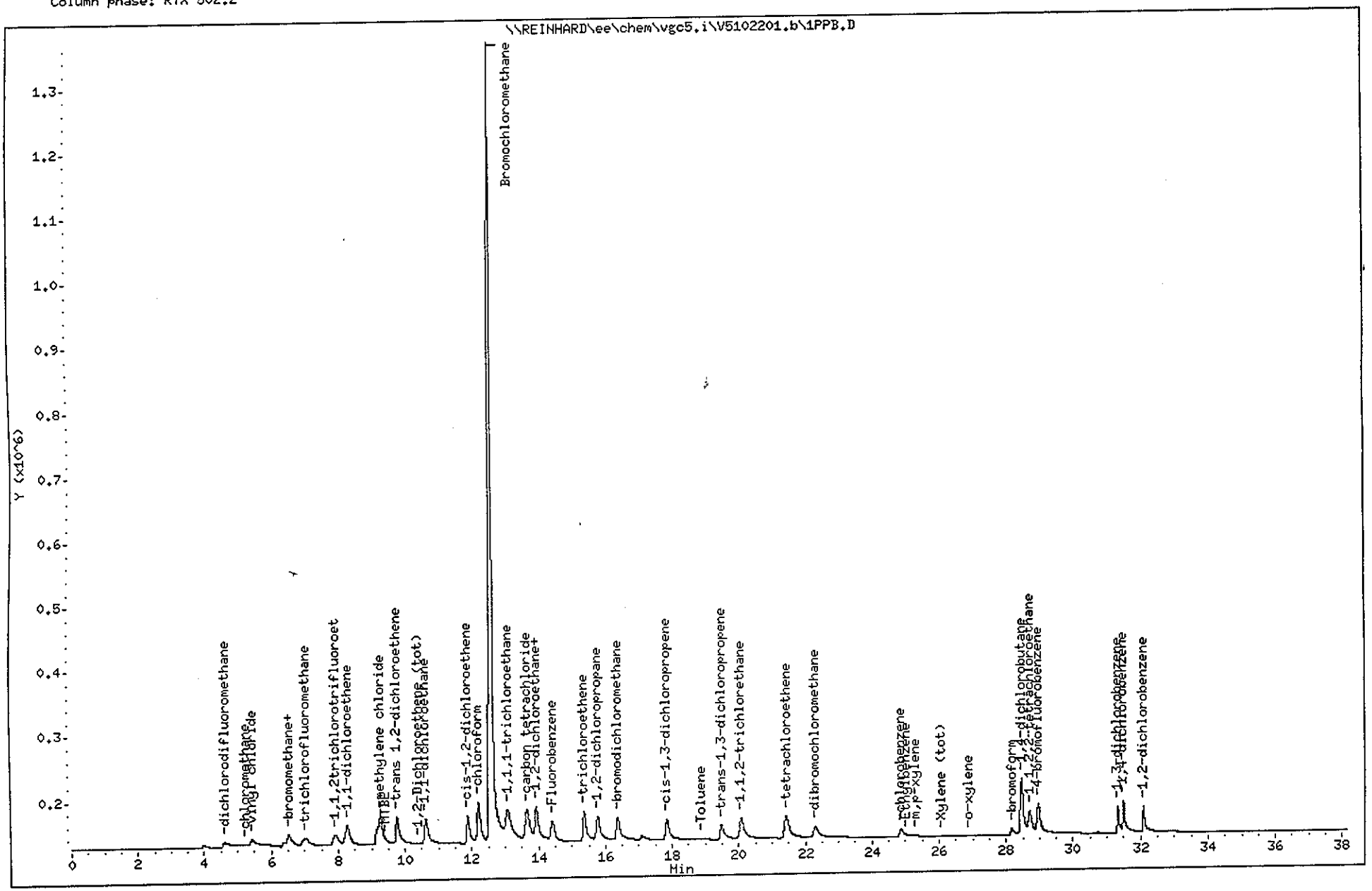
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	12.53	12.03	13.03	12.56	0.21
21 Fluorobenzene	14.38	13.88	14.88	14.41	0.19

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\REINHARD\ee\chem\vgc5.i\V5102201.b\1PPB.D
Date : 22-OCT-2001 18:06
Client ID: 1PPBSTD
Sample Info: 1PPBSTD
Purge Volume: 5.0
Column phase: RTX 502.2

Instrument: vgc5.i

Operator:
Column diameter: 0.53



PEL Laboratories

Data file : \\REINHARD\ee\chem\vgc5.i\V5102201.b\2PPB.D
Lab Smp Id: 2PPBSTD Client Smp ID: 2PPBSTD
Inj Date : 22-OCT-2001 19:40
Operator : Inst ID: vgc5.i
Smp Info : 2PPBSTD
Misc Info :
Comment :
Method : \\Reinhard\ee\chem\vgc5.i\V5102201.b\8021.m
Meth Date : 01-Nov-2001 15:03 kavita Quant Type: ISTD
Cal Date : 23-OCT-2001 01:55 Cal File: 100PPB.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

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	1 dichlorodifluoromethane	AIB1A	4.520	4.520	(0.361)	258304	2.00000	1.9 (M)
	2 chloromethane	AIB1A	5.096	5.096	(0.407)	25200	2.00000	1.5 (M)
	3 vinyl chloride	AIB1A	5.356	5.356	(0.428)	297204	2.00000	1.9 (M)
	4 bromomethane	AIB1A	6.430	6.430	(0.513)	109441	2.00000	1.4 (M)
	5 chloroethane	AIB1A	6.460	6.460	(0.516)	188752	2.00000	0.91 (aM)
	6 trichlorofluoromethane	AIB1A	6.960	6.960	(0.556)	269456	2.00000	1.4 (M)
	7 1,1,2trichlorotrifluoroethane	AIB1A	7.843	7.843	(0.626)	520727	2.00000	2.0
	8 1,1-dichloroethene	AIB1A	8.206	8.206	(0.655)	414828	2.00000	1.5
	9 methylene chloride	AIB1A	9.210	9.210	(0.735)	714404	2.00000	1.9 (a)
	10 MTBE	FID2B	9.386	9.386	(0.653)	8228	2.00000	1.6
	11 trans 1,2-dichloroethene	AIB1A	9.710	9.710	(0.775)	517754	2.00000	1.7
M	12 1,2-Dichloroethene (tot)	AIB1A				989697	4.00000	3.3
	13 1,1-dichloroethane	AIB1A	10.570	10.570	(0.844)	476887	2.00000	1.6
	14 cis-1,2-dichloroethene	AIB1A	11.833	11.833	(0.945)	471943	2.00000	1.6
	15 chloroform	AIB1A	12.166	12.166	(0.971)	655423	2.00000	1.6
*	16 Bromochloromethane	AIB1A	12.526	12.526	(1.000)	6773250	30.0000	
	17 1,1,1-trichloroethane	AIB1A	13.036	13.036	(1.041)	604086	2.00000	1.7
	18 carbon tetrachloride	AIB1A	13.620	13.620	(1.087)	577577	2.00000	1.6
	19 1,2-dichloroethane	AIB1A	13.910	13.910	(1.110)	539012	2.00000	1.7
	20 Benzene	FID2B	13.946	13.946	(0.970)	23080	2.00000	1.7
*	21 Fluorobenzene	FID2B	14.380	14.380	(1.000)	241473	30.0000	
	22 trichloroethene	AIB1A	15.333	15.333	(1.224)	558895	2.00000	1.7

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
	23 1,2-dichloropropane	AIB1A	15.736	15.736	(1.256)	440547	2.00000	1.5 (M)
	24 bromodichloromethane	AIB1A	16.333	16.333	(1.304)	473344	2.00000	1.6
	25 cis-1,3-dichloropropene	AIB1A	17.816	17.816	(1.422)	436251	2.00000	1.7
	26 Toluene	FID2B	18.863	18.863	(1.312)	22486	2.00000	1.7
	27 trans-1,3-dichloropropene	AIB1A	19.453	19.453	(1.553)	298337	2.00000	1.4 (M)
	28 1,1,2-trichlorethane	AIB1A	20.063	20.063	(1.602)	449169	2.00000	1.6
	29 tetrachloroethene	AIB1A	21.403	21.403	(1.709)	611110	2.00000	1.7 (M)
	30 dibromochloromethane	AIB1A	22.273	22.273	(1.778)	312331	2.00000	1.6 (M)
	31 chlorobenzene	AIB1A	24.836	24.836	(1.983)	227812	2.00000	1.6 (M)
	32 Ethylbenzene	FID2B	25.006	25.006	(1.739)	22305	2.00000	1.8
	33 m,p-xylene	FID2B	25.306	25.306	(1.760)	49476	4.00000	3.5 (M)
M	34 Xylene (tot)	FID2B				68580	6.00000	5.3
	35 o-xylene	FID2B	26.890	26.890	(1.870)	19104	2.00000	1.8
	36 bromoform	AIB1A	28.160	28.160	(2.248)	142711	2.00000	1.4
$	37 1,4-dichlorobutane	AIB1A	28.460	28.460	(2.272)	577738	2.00000	2.6 (M)
	38 1,1,2,2-tetrachloroethane	AIB1A	28.703	28.703	(2.291)	359632	2.00000	1.8
$	39 4-bromofluorobenzene	FID2B	28.930	28.930	(2.012)	38369	2.00000	2.7 (M)
	40 1,3-dichlorobenzene	AIB1A	31.323	31.323	(2.501)	260422	2.00000	1.6
	41 1,4-dichlorobenzene	AIB1A	31.493	31.493	(2.514)	469423	2.00000	2.4 (M)
	42 1,2-dichlorobenzene	AIB1A	32.076	32.076	(2.561)	311258	2.00000	1.8

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

PEL Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vgc5.i
Lab File ID: 2PPB.D
Lab Smp Id: 2PPBSTD
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\Reinhard\ee\chem\vgc5.i\V5102201.b\8021.m
Misc Info:

Calibration Date: 22-OCT-2001
Calibration Time: 23:35
Client Smp ID: 2PPBSTD
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	7664618	3832309	15329236	6773250	-11.63
21 Fluorobenzene	256729	128365	513458	241473	-5.94

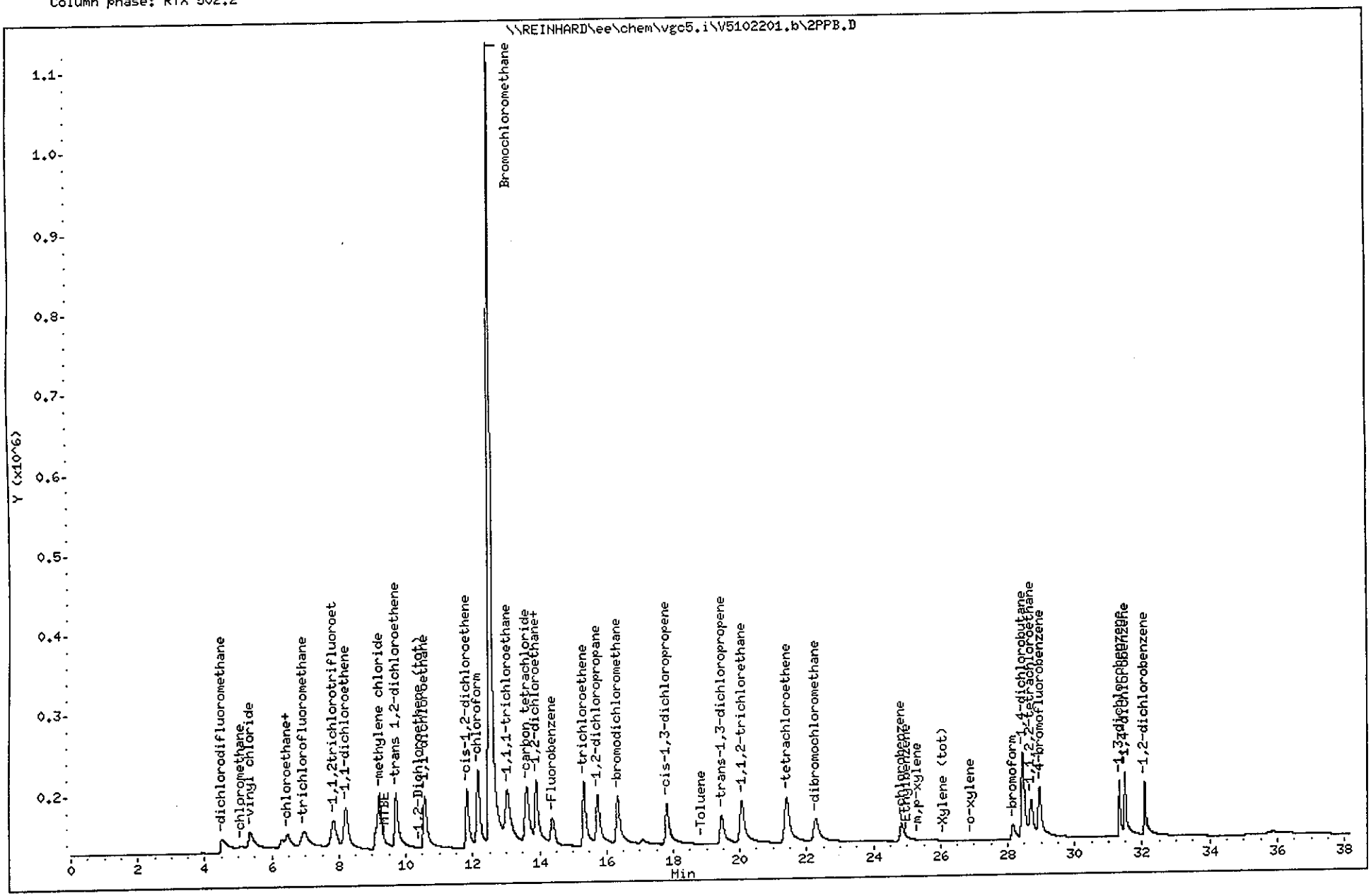
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	12.53	12.03	13.03	12.53	-0.03
21 Fluorobenzene	14.38	13.88	14.88	14.38	-0.02

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\REINHARD\ee\chem\vgc5.i\V5102201.b\2PPB.D
Date : 22-OCT-2001 19:40
Client ID: 2PPBSTD
Sample Info: 2PPBSTD
Purge Volume: 5.0
Column phase: RTX 502.2

Instrument: vgc5.i

Operator:
Column diameter: 0.53



PEL Laboratories

Data file : \\REINHARD\ee\chem\vgc5.i\V5102201.b\5PPB.D
Lab Smp Id: 5PPBSTD Client Smp ID: 5PPBSTD
Inj Date : 22-OCT-2001 21:14
Operator : Inst ID: vgc5.i
Smp Info : 5PPBSTD
Misc Info :
Comment :
Method : \\Reinhard\ee\chem\vgc5.i\V5102201.b\8021.m
Meth Date : 01-Nov-2001 15:04 kavita Quant Type: ISTD
Cal Date : 23-OCT-2001 01:55 Cal File: 100PPB.D
Als bottle: 9 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

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	1 dichlorodifluoromethane	AIB1A	4.566	4.566	(0.364)	500791	5.00000	3.5
	2 chloromethane	AIB1A	5.126	5.126	(0.409)	89023	5.00000	5.1(M)
	3 vinyl chloride	AIB1A	5.393	5.393	(0.430)	618997	5.00000	3.8
	4 bromomethane	AIB1A	6.333	6.333	(0.505)	309484	5.00000	3.7
	5 chloroethane	AIB1A	6.500	6.500	(0.518)	971186	5.00000	4.5
	6 trichlorofluoromethane	AIB1A	6.996	6.996	(0.558)	813132	5.00000	4.2
	7 1,1,2trichlorotrifluoroethane	AIB1A	7.880	7.880	(0.629)	1819857	5.00000	6.7
	8 1,1-dichloroethene	AIB1A	8.246	8.246	(0.658)	1272145	5.00000	4.4
	9 methylene chloride	AIB1A	9.236	9.236	(0.737)	1810981	5.00000	4.5
	10 MTBE	FID2B	9.396	9.396	(0.653)	22061	5.00000	4.4
	11 trans 1,2-dichloroethene	AIB1A	9.733	9.733	(0.776)	1425206	5.00000	4.4
M	12 1,2-Dichloroethene (tot)	AIB1A				2773203	10.0000	8.8
	13 1,1-dichloroethane	AIB1A	10.590	10.590	(0.845)	1446724	5.00000	4.6
	14 cis-1,2-dichloroethene	AIB1A	11.850	11.850	(0.945)	1347997	5.00000	4.4
	15 chloroform	AIB1A	12.176	12.176	(0.971)	1861598	5.00000	4.4
*	16 Bromochloromethane	AIB1A	12.536	12.536	(1.000)	7052347	30.0000	
	17 1,1,1-trichloroethane	AIB1A	13.053	13.053	(1.041)	1747083	5.00000	4.7
	18 carbon tetrachloride	AIB1A	13.630	13.630	(1.087)	1669103	5.00000	4.3
	19 1,2-dichloroethane	AIB1A	13.906	13.906	(1.109)	1464597	5.00000	4.5
	20 Benzene	FID2B	13.963	13.963	(0.970)	56957	5.00000	4.2
*	21 Fluorobenzene	FID2B	14.393	14.393	(1.000)	246579	30.0000	
	22 trichloroethene	AIB1A	15.336	15.336	(1.223)	1569917	5.00000	4.5

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
	23 1,2-dichloropropane	AIB1A	15.740	15.740	(1.256)	1345463	5.00000	4.4
	24 bromodichloromethane	AIB1A	16.340	16.340	(1.303)	1292613	5.00000	4.3
	25 cis-1,3-dichloropropene	AIB1A	17.816	17.816	(1.421)	1212512	5.00000	4.4
	26 Toluene	FID2B	18.866	18.866	(1.311)	58748	5.00000	4.5
	27 trans-1,3-dichloropropene	AIB1A	19.453	19.453	(1.552)	885849	5.00000	4.1
	28 1,1,2-trichlorethane	AIB1A	20.053	20.053	(1.600)	1320964	5.00000	4.4
	29 tetrachloroethene	AIB1A	21.403	21.403	(1.707)	1670975	5.00000	4.4 (M)
	30 dibromochloromethane	AIB1A	22.266	22.266	(1.776)	838038	5.00000	4.2
	31 chlorobenzene	AIB1A	24.833	24.833	(1.981)	631503	5.00000	4.3
	32 Ethylbenzene	FID2B	25.006	25.006	(1.737)	57971	5.00000	4.6
	33 m,p-xylene	FID2B	25.306	25.306	(1.758)	144539	10.0000	10.1
M	34 Xylene (tot)	FID2B				193310	15.0000	14.6
	35 o-xylene	FID2B	26.886	26.886	(1.868)	48771	5.00000	4.4
	36 bromoform	AIB1A	28.146	28.146	(2.245)	450703	5.00000	4.2
$	37 1,4-dichlorobutane	AIB1A	28.450	28.450	(2.269)	1357652	5.00000	5.9
	38 1,1,2,2-tetrachloroethane	AIB1A	28.696	28.696	(2.289)	900463	5.00000	4.3
$	39 4-bromofluorobenzene	FID2B	28.926	28.926	(2.010)	80244	5.00000	5.5
	40 1,3-dichlorobenzene	AIB1A	31.320	31.320	(2.498)	767930	5.00000	4.5
	41 1,4-dichlorobenzene	AIB1A	31.486	31.486	(2.512)	971915	5.00000	4.8 (M)
	42 1,2-dichlorobenzene	AIB1A	32.073	32.073	(2.558)	850915	5.00000	4.6

QC Flag Legend

M - Compound response manually integrated.

PEL Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vgc5.i
Lab File ID: 5PPB.D
Lab Smp Id: 5PPBSTD
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\Reinhard\ee\chem\vgc5.i\V5102201.b\8021.m
Misc Info:

Calibration Date: 22-OCT-2001
Calibration Time: 23:35
Client Smp ID: 5PPBSTD
Level: LOW
Sample Type: WATER

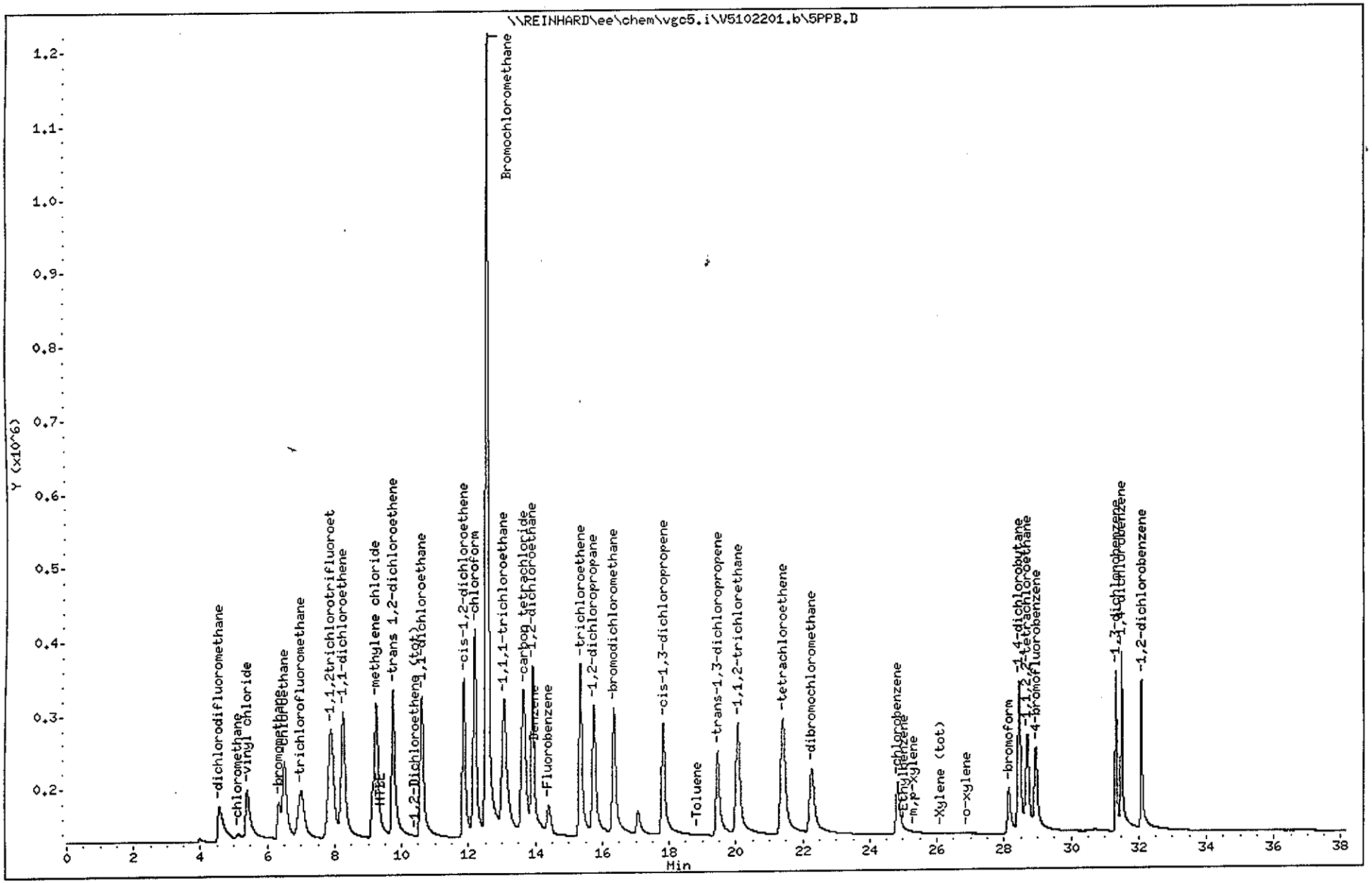
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	7664618	3832309	15329236	7052347	-7.99
21 Fluorobenzene	256729	128365	513458	246579	-3.95

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	12.53	12.03	13.03	12.54	0.05
21 Fluorobenzene	14.38	13.88	14.88	14.39	0.07

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\REINHARD\ee\chem\vgc5.i\V5102201.b\5PPB.D
Date : 22-OCT-2001 21:14
Client ID: 5PPBSTD
Sample Info: 5PPBSTD
Purge Volume: 5.0
Column phase: RTX 502.2

Instrument: vgc5.i
Operator:
Column diameter: 0.53



PEL Laboratories

Data file : \\REINHARD\ee\chem\vgc5.i\V5102201.b\10PPB.D
Lab Smp Id: 10PPBSTD Client Smp ID: 10PPBSTD
Inj Date : 22-OCT-2001 22:01
Operator : Inst ID: vgc5.i
Smp Info : 10PPBSTD
Misc Info :
Comment :
Method : \\Reinhard\ee\chem\vgc5.i\V5102201.b\8021.m
Meth Date : 01-Nov-2001 15:04 kavita Quant Type: ISTD
Cal Date : 23-OCT-2001 01:55 Cal File: 100PPB.D
Als bottle: 10 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

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
	1 dichlorodifluoromethane	AIB1A	4.536	4.536	(0.362)	1847530	10.0000	12.6
	2 chloromethane	AIB1A	5.113	5.113	(0.408)	162220	10.0000	9.0
	3 vinyl chloride	AIB1A	5.386	5.386	(0.430)	1965267	10.0000	11.7
	4 bromomethane	AIB1A	6.323	6.323	(0.505)	1074752	10.0000	12.3
	5 chloroethane	AIB1A	6.486	6.486	(0.518)	3005622	10.0000	13.4
	6 trichlorofluoromethane	AIB1A	6.993	6.993	(0.558)	2467473	10.0000	12.1
	7 1,1,2trichlorotrifluoroethane	AIB1A	7.880	7.880	(0.629)	3067856	10.0000	10.9
	8 1,1-dichloroethene	AIB1A	8.243	8.243	(0.658)	3821614	10.0000	12.7
	9 methylene chloride	AIB1A	9.223	9.223	(0.736)	4981169	10.0000	12.0
	10 MTBE	FID2B	9.390	9.390	(0.653)	60274	10.0000	11.4
	11 trans 1,2-dichloroethene	AIB1A	9.726	9.726	(0.776)	4098316	10.0000	12.3
M	12 1,2-Dichloroethene (tot)	AIB1A				8131175	20.0000	24.9
	13 1,1-dichloroethane	AIB1A	10.580	10.580	(0.844)	4293861	10.0000	13.0
	14 cis-1,2-dichloroethene	AIB1A	11.840	11.840	(0.945)	4032859	10.0000	12.6
	15 chloroform	AIB1A	12.166	12.166	(0.971)	5274990	10.0000	12.1
*	16 Bromochloromethane	AIB1A	12.530	12.530	(1.000)	7325474	30.0000	
	17 1,1,1-trichloroethane	AIB1A	13.046	13.046	(1.041)	4499664	10.0000	11.7
	18 carbon tetrachloride	AIB1A	13.620	13.620	(1.087)	5083047	10.0000	12.6
	19 1,2-dichloroethane	AIB1A	13.900	13.900	(1.109)	4073772	10.0000	11.9
	20 Benzene	FID2B	13.953	13.953	(0.970)	159493	10.0000	11.2
*	21 Fluorobenzene	FID2B	14.383	14.383	(1.000)	256845	30.0000	
	22 trichloroethene	AIB1A	15.316	15.316	(1.222)	4469388	10.0000	12.4

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
	23 1,2-dichloropropane	AIB1A	15.733	15.733	(1.256)	3683258	10.0000	11.6
	24 bromodichloromethane	AIB1A	16.323	16.323	(1.303)	3781536	10.0000	12.2
	25 cis-1,3-dichloropropene	AIB1A	17.800	17.800	(1.421)	3507741	10.0000	12.3
	26 Toluene	FID2B	18.856	18.856	(1.311)	147774	10.0000	10.8
	27 trans-1,3-dichloropropene	AIB1A	19.433	19.433	(1.551)	2729572	10.0000	12.2
	28 1,1,2-trichlorethane	AIB1A	20.043	20.043	(1.600)	3804316	10.0000	12.2
	29 tetrachloroethene	AIB1A	21.386	21.386	(1.707)	4641937	10.0000	11.8(M)
	30 dibromochloromethane	AIB1A	22.253	22.253	(1.776)	2563788	10.0000	12.4
	31 chlorobenzene	AIB1A	24.820	24.820	(1.981)	1935256	10.0000	12.6
	32 Ethylbenzene	FID2B	25.003	25.003	(1.738)	141621	10.0000	10.8
	33 m,p-xylene	FID2B	25.300	25.300	(1.759)	313700	20.0000	21.1
M	34 Xylene (tot)	FID2B				438422	30.0000	32.0
	35 o-xylene	FID2B	26.880	26.880	(1.869)	124722	10.0000	10.9
	36 bromoform	AIB1A	28.140	28.140	(2.246)	1405520	10.0000	12.5
$	37 1,4-dichlorobutane	AIB1A	28.446	28.446	(2.270)	2687562	10.0000	11.2
	38 1,1,2,2-tetrachloroethane	AIB1A	28.690	28.690	(2.290)	2438622	10.0000	11.3
$	39 4-bromofluorobenzene	FID2B	28.923	28.923	(2.011)	155439	10.0000	10.3
	40 1,3-dichlorobenzene	AIB1A	31.316	31.316	(2.499)	2184706	10.0000	12.4
	41 1,4-dichlorobenzene	AIB1A	31.483	31.483	(2.513)	2292746	10.0000	10.8
	42 1,2-dichlorobenzene	AIB1A	32.070	32.070	(2.559)	2316416	10.0000	12.2

QC Flag Legend

M - Compound response manually integrated.

PEL Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vgc5.i
Lab File ID: 10PPB.D
Lab Smp Id: 10PPBSTD
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\Reinhard\ee\chem\vgc5.i\V5102201.b\8021.m
Misc Info:

Calibration Date: 22-OCT-2001
Calibration Time: 23:35
Client Smp ID: 10PPBSTD
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	7664618	3832309	15329236	7325474	-4.42
21 Fluorobenzene	256729	128365	513458	256845	0.05

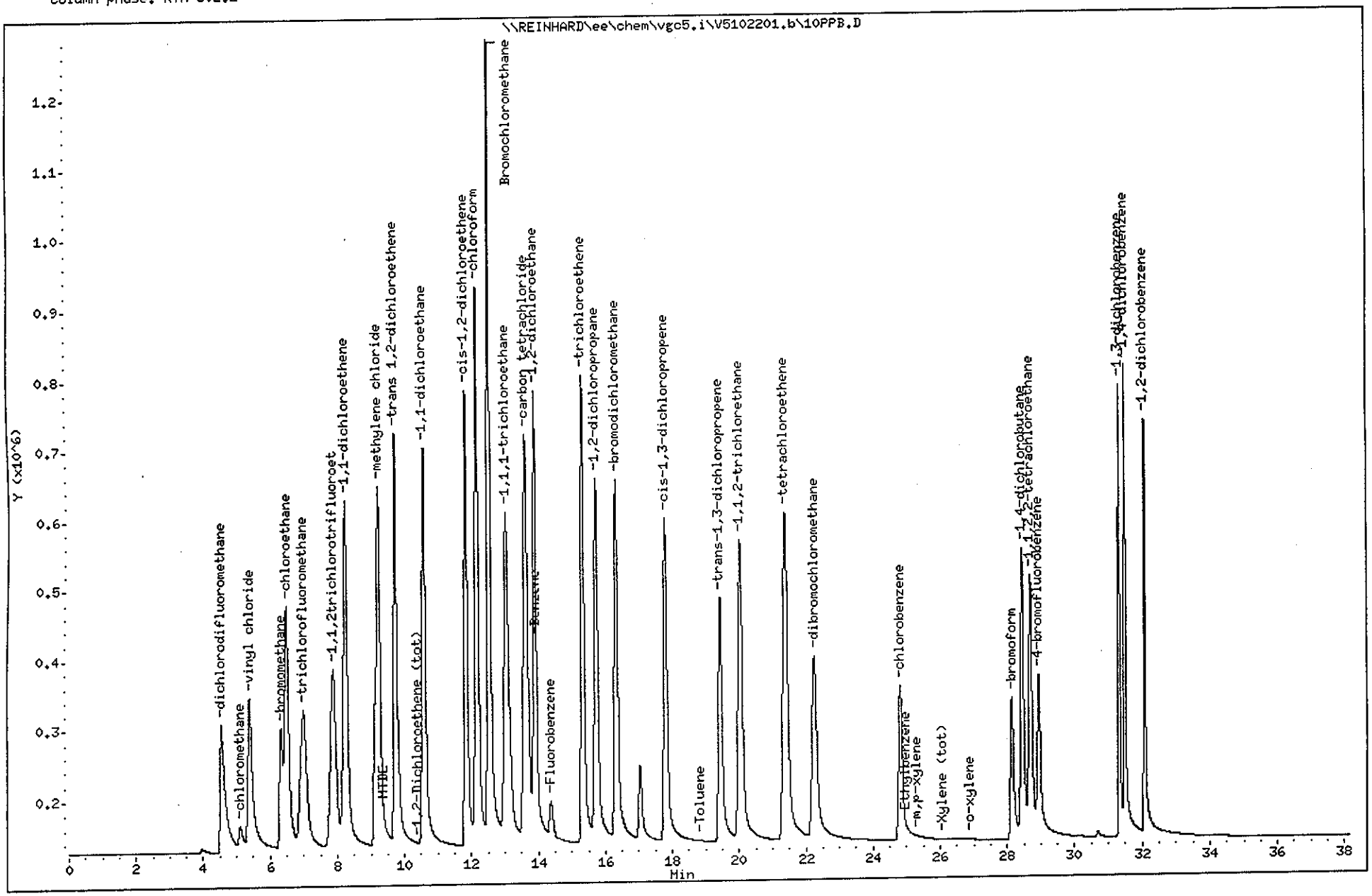
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	12.53	12.03	13.03	12.53	0.00
21 Fluorobenzene	14.38	13.88	14.88	14.38	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\REINHARD\ee\chem\vgc5.i\V5102201.b\10PPB.D
Date : 22-OCT-2001 22:01
Client ID: 10PPBSTD
Sample Info: 10PPBSTD
Purge Volume: 5.0
Column phase: RTX 502.2

Instrument: vgc5.i

Operator:
Column diameter: 0.53



PEL Laboratories

Data file : \\REINHARD\ee\chem\vgc5.i\V5102201.b\20PPB.D
Lab Smp Id: 20PPBSTD Client Smp ID: 20PPBSTD
Inj Date : 22-OCT-2001 22:48
Operator : Inst ID: vgc5.i
Smp Info : 20PPBSTD
Misc Info :
Comment :
Method : \\Reinhard\ee\chem\vgc5.i\V5102201.b\8021.m
Meth Date : 01-Nov-2001 15:04 kavita Quant Type: ISTD
Cal Date : 23-OCT-2001 01:55 Cal File: 100PPB.D
Als bottle: 11 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

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	1 dichlorodifluoromethane	AIB1A	4.550	4.550	(0.363)	3452027	20.0000	22.7
	2 chloromethane	AIB1A	5.100	5.100	(0.407)	353855	20.0000	18.9
	3 vinyl chloride	AIB1A	5.376	5.376	(0.429)	3795711	20.0000	21.8
	4 bromomethane	AIB1A	6.306	6.306	(0.503)	2079789	20.0000	22.9
	5 chloroethane	AIB1A	6.480	6.480	(0.517)	5509532	20.0000	23.7
	6 trichlorofluoromethane	AIB1A	6.993	6.993	(0.558)	4846729	20.0000	23.0
	7 1,1,2trichlorotrifluoroethane	AIB1A	7.870	7.870	(0.628)	5747860	20.0000	19.7
	8 1,1-dichloroethene	AIB1A	8.236	8.236	(0.658)	6828824	20.0000	21.9
	9 methylene chloride	AIB1A	9.220	9.220	(0.736)	9068393	20.0000	21.1(M)
	10 MTBE	FID2B	9.390	9.390	(0.653)	117438	20.0000	22.8
	11 trans 1,2-dichloroethene	AIB1A	9.716	9.716	(0.776)	7672731	20.0000	22.3
M	12 1,2-Dichloroethene (tot)	AIB1A				15356009	40.0000	45.5
	13 1,1-dichloroethane	AIB1A	10.576	10.576	(0.844)	8102039	20.0000	23.7
	14 cis-1,2-dichloroethene	AIB1A	11.830	11.830	(0.944)	7683278	20.0000	23.2
	15 chloroform	AIB1A	12.163	12.163	(0.971)	10171738	20.0000	22.5
*	16 Bromochloromethane	AIB1A	12.526	12.526	(1.000)	7580443	30.0000	
	17 1,1,1-trichloroethane	AIB1A	13.033	13.033	(1.040)	8135913	20.0000	20.5
	18 carbon tetrachloride	AIB1A	13.613	13.613	(1.087)	9258826	20.0000	22.3
	19 1,2-dichloroethane	AIB1A	13.893	13.893	(1.109)	7576887	20.0000	21.5
	20 Benzene	FID2B	13.950	13.950	(0.970)	299335	20.0000	21.6
*	21 Fluorobenzene	FID2B	14.380	14.380	(1.000)	250895	30.0000	
	22 trichloroethene	AIB1A	15.320	15.320	(1.223)	8425809	20.0000	22.5

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
	23 1,2-dichloropropane	AIB1A	15.726	15.726	(1.255)	7146734	20.0000	21.7
	24 bromodichloromethane	AIB1A	16.320	16.320	(1.303)	7262798	20.0000	22.7
	25 cis-1,3-dichloropropene	AIB1A	17.796	17.796	(1.421)	6688079	20.0000	22.8
	26 Toluene	FID2B	18.850	18.850	(1.311)	277021	20.0000	20.7
	27 trans-1,3-dichloropropene	AIB1A	19.433	19.433	(1.551)	5541539	20.0000	24.0
	28 1,1,2-trichlorethane	AIB1A	20.030	20.030	(1.599)	7576170	20.0000	23.4
	29 tetrachloroethene	AIB1A	21.380	21.380	(1.707)	9164118	20.0000	22.6
	30 dibromochloromethane	AIB1A	22.240	22.240	(1.775)	5107344	20.0000	23.9
	31 chlorobenzene	AIB1A	24.810	24.810	(1.981)	3725478	20.0000	23.4
	32 Ethylbenzene	FID2B	25.000	25.000	(1.739)	260571	20.0000	20.4
	33 m,p-xylene	FID2B	25.290	25.290	(1.759)	573201	40.0000	39.4
M	34 Xylene (tot)	FID2B				809091	60.0000	60.5
	35 o-xylene	FID2B	26.880	26.880	(1.869)	235890	20.0000	21.0
	36 bromoform	AIB1A	28.133	28.133	(2.246)	2910502	20.0000	25.0
$	37 1,4-dichlorobutane	AIB1A	28.443	28.443	(2.271)	4974190	20.0000	20.0
	38 1,1,2,2-tetrachloroethane	AIB1A	28.686	28.686	(2.290)	4836187	20.0000	21.6
$	39 4-bromofluorobenzene	FID2B	28.920	28.920	(2.011)	289470	20.0000	19.6
	40 1,3-dichlorobenzene	AIB1A	31.316	31.316	(2.500)	4168558	20.0000	22.8
	41 1,4-dichlorobenzene	AIB1A	31.483	31.483	(2.513)	4600421	20.0000	21.0
	42 1,2-dichlorobenzene	AIB1A	32.070	32.070	(2.560)	4405642	20.0000	22.3

QC Flag Legend

M - Compound response manually integrated.

PEL Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vgc5.i
Lab File ID: 20PPB.D
Lab Smp Id: 20PPBSTD
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\Reinhard\ee\chem\vgc5.i\V5102201.b\8021.m
Misc Info:

Calibration Date: 22-OCT-2001
Calibration Time: 23:35
Client Smp ID: 20PPBSTD
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	7664618	3832309	15329236	7580443	-1.10
21 Fluorobenzene	256729	128365	513458	250895	-2.27

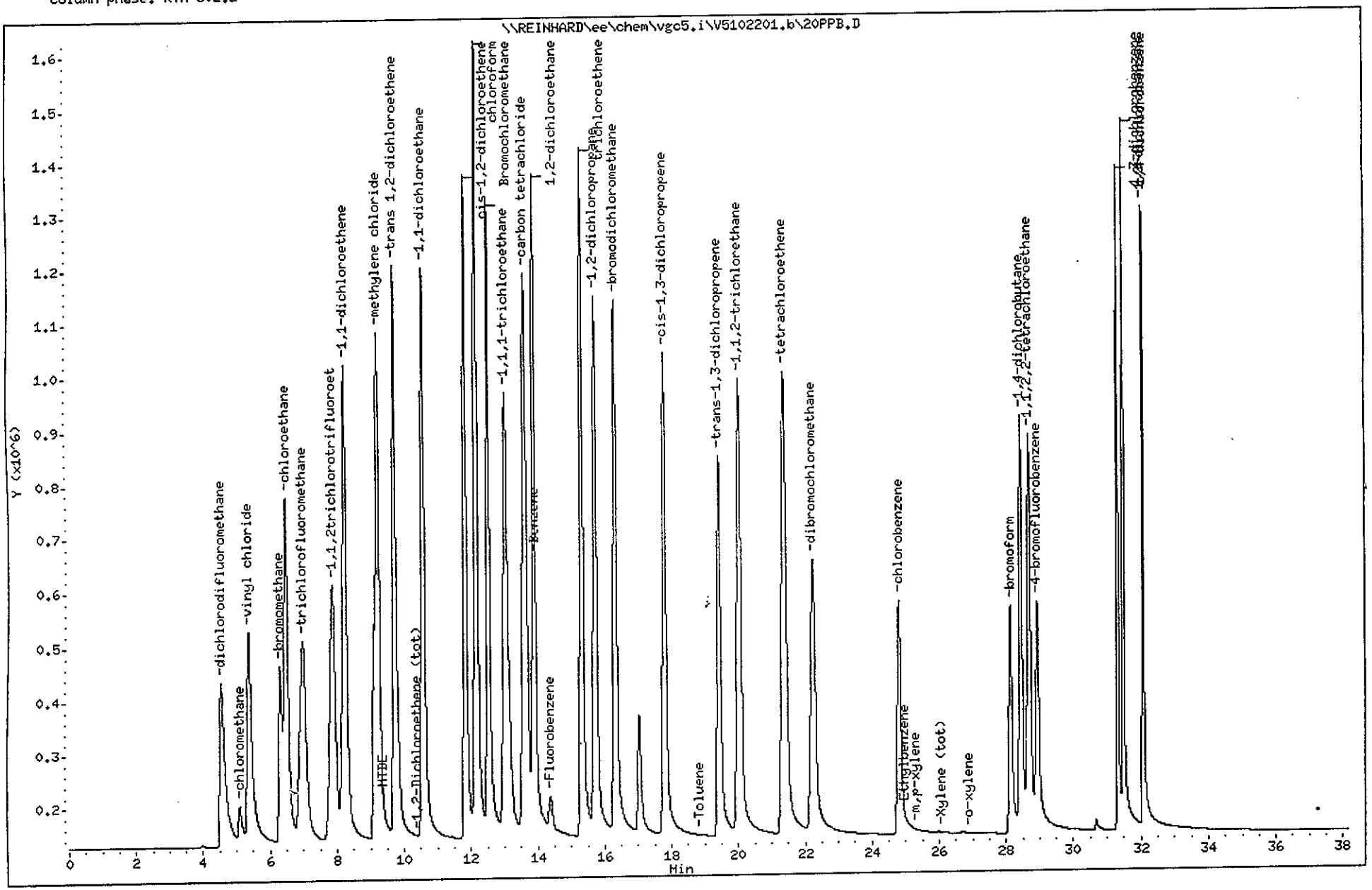
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	12.53	12.03	13.03	12.53	-0.03
21 Fluorobenzene	14.38	13.88	14.88	14.38	-0.02

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\REINHARD\ee\chem\vgc5.i\V5102201.b\20PPB.D
Date : 22-OCT-2001 22:48
Client ID: 20PPBSTD
Sample Info: 20PPBSTD
Purge Volume: 5.0
Column phase: RTX 502.2

Instrument: vgc5.i

Operator:
Column diameter: 0.53



PEL Laboratories

Data file : \\REINHARD\ee\chem\vgc5.i\V5102201.b\30PPB.D
Lab Smp Id: 30PPBSTD Client Smp ID: 30PPBSTD
Inj Date : 22-OCT-2001 23:35
Operator : Inst ID: vgc5.i
Smp Info : 30PPBSTD
Misc Info :
Comment :
Method : \\Reinhard\ee\chem\vgc5.i\V5102201.b\8021.m
Meth Date : 01-Nov-2001 15:04 kavita Quant Type: ISTD
Cal Date : 23-OCT-2001 01:55 Cal File: 100PPB.D
Als bottle: 12 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

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
	1 dichlorodifluoromethane	AIB1A	4.546	4.546	(0.363)	5325409	30.0000	34.6
	2 chloromethane	AIB1A	5.096	5.096	(0.407)	612695	30.0000	32.4
	3 vinyl chloride	AIB1A	5.370	5.370	(0.429)	6057660	30.0000	34.4
	4 bromomethane	AIB1A	6.306	6.306	(0.503)	3226791	30.0000	35.2
	5 chloroethane	AIB1A	6.480	6.480	(0.517)	8186073	30.0000	34.8
	6 trichlorofluoromethane	AIB1A	6.986	6.986	(0.558)	7345888	30.0000	34.5
	7 1,1,2trichlorotrifluoroethane	AIB1A	7.873	7.873	(0.628)	8877188	30.0000	30.1
	8 1,1-dichloroethene	AIB1A	8.236	8.236	(0.657)	10384311	30.0000	33.0
	9 methylene chloride	AIB1A	9.223	9.223	(0.736)	13403318	30.0000	30.9
	10 MTBE	FID2B	9.390	9.390	(0.653)	166364	30.0000	31.5
	11 trans 1,2-dichloroethene	AIB1A	9.716	9.716	(0.775)	11069123	30.0000	31.8
M	12 1,2-Dichloroethene (tot)	AIB1A				21984260	60.0000	64.4
	13 1,1-dichloroethane	AIB1A	10.576	10.576	(0.844)	11641418	30.0000	33.7
	14 cis-1,2-dichloroethene	AIB1A	11.833	11.833	(0.944)	10915137	30.0000	32.6
	15 chloroform	AIB1A	12.163	12.163	(0.971)	14610039	30.0000	32.0
*	16 Bromochloromethane	AIB1A	12.530	12.530	(1.000)	7664618	30.0000	
	17 1,1,1-trichloroethane	AIB1A	13.040	13.040	(1.041)	13131393	30.0000	32.7
	18 carbon tetrachloride	AIB1A	13.616	13.616	(1.087)	13672187	30.0000	32.5
	19 1,2-dichloroethane	AIB1A	13.896	13.896	(1.109)	11017520	30.0000	30.9
	20 Benzene	FID2B	13.956	13.956	(0.970)	442340	30.0000	31.2
*	21 Fluorobenzene	FID2B	14.383	14.383	(1.000)	256729	30.0000	
	22 trichloroethene	AIB1A	15.313	15.313	(1.222)	12248704	30.0000	32.4

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
	23 1,2-dichloropropane	AIB1A	15.730	15.730	(1.255)	10190127	30.0000	30.6
	24 bromodichloromethane	AIB1A	16.320	16.320	(1.302)	10218318	30.0000	31.6
	25 cis-1,3-dichloropropene	AIB1A	17.796	17.796	(1.420)	9498659	30.0000	32.0
	26 Toluene	FID2B	18.856	18.856	(1.311)	406233	30.0000	29.7
	27 trans-1,3-dichloropropene	AIB1A	19.430	19.430	(1.551)	7847175	30.0000	33.6
	28 1,1,2-trichlorethane	AIB1A	20.033	20.033	(1.599)	10568438	30.0000	32.3
	29 tetrachloroethene	AIB1A	21.373	21.373	(1.706)	12701431	30.0000	31.0(M)
	30 dibromochloromethane	AIB1A	22.246	22.246	(1.775)	7076217	30.0000	32.7
	31 chlorobenzene	AIB1A	24.790	24.790	(1.978)	5313221	30.0000	33.0
	32 Ethylbenzene	FID2B	24.996	24.996	(1.738)	380474	30.0000	29.2
	33 m,p-xylene	FID2B	25.293	25.293	(1.759)	845012	60.0000	56.8
M	34 Xylene (tot)	FID2B				1189603	90.0000	86.9
	35 o-xylene	FID2B	26.880	26.880	(1.869)	344591	30.0000	30.1
	36 bromoform	AIB1A	28.130	28.130	(2.245)	4110218	30.0000	35.0
$	37 1,4-dichlorobutane	AIB1A	28.440	28.440	(2.270)	6777282	30.0000	27.0
	38 1,1,2,2-tetrachloroethane	AIB1A	28.686	28.686	(2.289)	6514776	30.0000	28.8
$	39 4-bromofluorobenzene	FID2B	28.916	28.916	(2.010)	415868	30.0000	27.5
	40 1,3-dichlorobenzene	AIB1A	31.313	31.313	(2.499)	6031585	30.0000	32.7
	41 1,4-dichlorobenzene	AIB1A	31.480	31.480	(2.512)	6516058	30.0000	29.4
	42 1,2-dichlorobenzene	AIB1A	32.070	32.070	(2.559)	6260328	30.0000	31.4

QC Flag Legend

M - Compound response manually integrated.

PEL Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vgc5.i
Lab File ID: 30PPB.D
Lab Smp Id: 30PPBSTD
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\Reinhard\ee\chem\vgc5.i\V5102201.b\8021.m
Misc Info:

Calibration Date: 22-OCT-2001
Calibration Time: 23:35
Client Smp ID: 30PPBSTD
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	7664618	3832309	15329236	7664618	0.00
21 Fluorobenzene	256729	128365	513458	256729	0.00

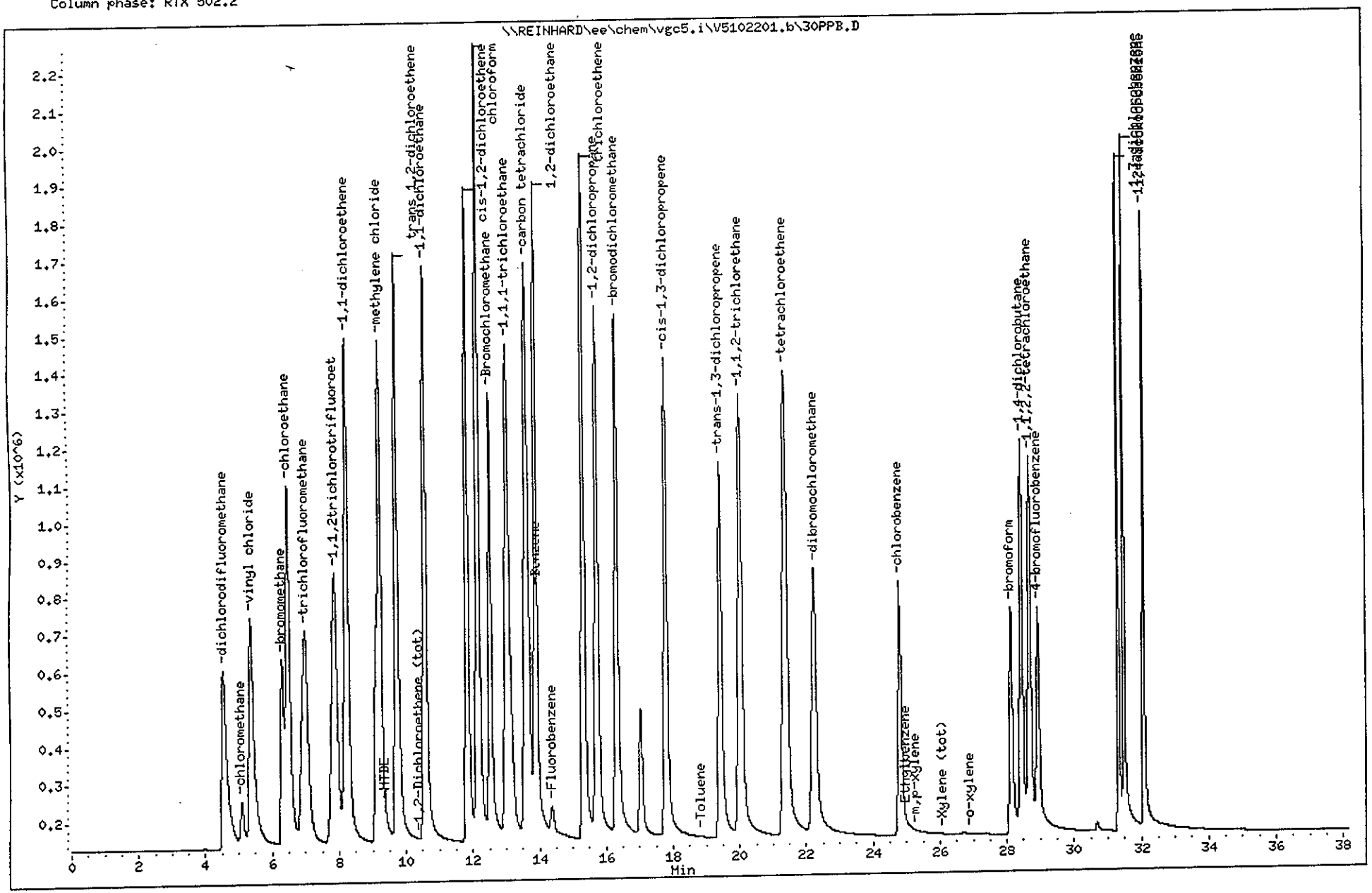
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	12.53	12.03	13.03	12.53	0.00
21 Fluorobenzene	14.38	13.88	14.88	14.38	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\REINHARD\ee\chem\vgc5.i\V5102201.b\30PPB.D
Date : 22-OCT-2001 23:35
Client ID: 30PPBSTD
Sample Info: 30PPBSTD
Purge Volume: 5.0
Column phase: RTX 502.2

Instrument: vgc5.i

Operator:
Column diameter: 0.53



PEL Laboratories

Data file : \\REINHARD\ee\chem\vgc5.i\V5102201.b\40PPB.D
Lab Smp Id: 40PPBSTD Client Smp ID: 40PPBSTD
Inj Date : 23-OCT-2001 00:22
Operator : Inst ID: vgc5.i
Smp Info : 40PPBSTD
Misc Info : /
Comment :
Method : \\Reinhard\ee\chem\vgc5.i\V5102201.b\8021.m
Meth Date : 01-Nov-2001 15:04 kavita Quant Type: ISTD
Cal Date : 23-OCT-2001 01:55 Cal File: 100PPB.D
Als bottle: 13 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

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	1 dichlorodifluoromethane	AIB1A	4.540	4.540	(0.362)	6366308	40.0000	41.0
	2 chloromethane	AIB1A	5.090	5.090	(0.406)	811228	40.0000	42.6
	3 vinyl chloride	AIB1A	5.356	5.356	(0.428)	7423986	40.0000	41.8
	4 bromomethane	AIB1A	6.296	6.296	(0.503)	3919750	40.0000	42.5
	5 chloroethane	AIB1A	6.470	6.470	(0.516)	9914701	40.0000	41.9
	6 trichlorofluoromethane	AIB1A	6.976	6.976	(0.557)	8811861	40.0000	41.1
	7 1,1,2trichlorotrifluoroethane	AIB1A	7.860	7.860	(0.627)	11936692	40.0000	40.2
	8 1,1-dichloroethene	AIB1A	8.230	8.230	(0.657)	12591342	40.0000	39.7
	9 methylene chloride	AIB1A	9.223	9.223	(0.736)	16834310	40.0000	38.5
	10 MTBE	FID2B	9.396	9.396	(0.653)	211379	40.0000	40.9
	11 trans 1,2-dichloroethene	AIB1A	9.723	9.723	(0.776)	13793101	40.0000	39.4
M	12 1,2-Dichloroethene (tot)	AIB1A				27180658	80.0000	79.1
	13 1,1-dichloroethane	AIB1A	10.576	10.576	(0.844)	14504828	40.0000	41.7
	14 cis-1,2-dichloroethene	AIB1A	11.830	11.830	(0.944)	13387557	40.0000	39.7
	15 chloroform	AIB1A	12.163	12.163	(0.971)	17796424	40.0000	38.6
*	16 Bromochloromethane	AIB1A	12.526	12.526	(1.000)	7719343	30.0000	
	17 1,1,1-trichloroethane	AIB1A	13.033	13.033	(1.040)	14957469	40.0000	37.0
	18 carbon tetrachloride	AIB1A	13.620	13.620	(1.087)	16567071	40.0000	39.1
	19 1,2-dichloroethane	AIB1A	13.900	13.900	(1.110)	13326440	40.0000	37.1
	20 Benzene	FID2B	13.950	13.950	(0.970)	537560	40.0000	38.6
*	21 Fluorobenzene	FID2B	14.383	14.383	(1.000)	251703	30.0000	
	22 trichloroethene	AIB1A	15.316	15.316	(1.223)	14895599	40.0000	39.1

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
	23 1,2-dichloropropane	AIB1A	15.726	15.726	(1.255)	12551168	40.0000	37.4
	24 bromodichloromethane	AIB1A	16.323	16.323	(1.303)	12822783	40.0000	39.4
	25 cis-1,3-dichloropropene	AIB1A	17.793	17.793	(1.420)	11556427	40.0000	38.6
	26 Toluene	FID2B	18.853	18.853	(1.311)	498948	40.0000	37.2
	27 trans-1,3-dichloropropene	AIB1A	19.433	19.433	(1.551)	9990675	40.0000	42.4
	28 1,1,2-trichlorethane	AIB1A	20.030	20.030	(1.599)	13464431	40.0000	40.8
	29 tetrachloroethene	AIB1A	21.376	21.376	(1.706)	16114921	40.0000	39.0
	30 dibromochloromethane	AIB1A	22.246	22.246	(1.776)	9140427	40.0000	42.0
	31 chlorobenzene	AIB1A	24.813	24.813	(1.981)	6511353	40.0000	40.2
	32 Ethylbenzene	FID2B	24.996	24.996	(1.738)	467055	40.0000	36.5
	33 m,p-xylene	FID2B	25.296	25.296	(1.759)	1026983	80.0000	70.5
M	34 Xylene (tot)	FID2B				1450391	120.000	108
	35 o-xylene	FID2B	26.876	26.876	(1.869)	423408	40.0000	37.7
	36 bromoform	AIB1A	28.130	28.130	(2.246)	5252715	40.0000	44.4
$	37 1,4-dichlorobutane	AIB1A	28.443	28.443	(2.271)	9175490	40.0000	36.2
	38 1,1,2,2-tetrachloroethane	AIB1A	28.686	28.686	(2.290)	8619713	40.0000	37.8
$	39 4-bromofluorobenzene	FID2B	28.920	28.920	(2.011)	550632	40.0000	37.1
	40 1,3-dichlorobenzene	AIB1A	31.316	31.316	(2.500)	7337354	40.0000	39.4
	41 1,4-dichlorobenzene	AIB1A	31.483	31.483	(2.513)	8226936	40.0000	36.8
	42 1,2-dichlorobenzene	AIB1A	32.070	32.070	(2.560)	7917345	40.0000	39.4

PEL Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vgc5.i
Lab File ID: 40PPB.D
Lab Smp Id: 40PPBSTD
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\Reinhard\ee\chem\vgc5.i\V5102201.b\8021.m
Misc Info:

Calibration Date: 22-OCT-2001
Calibration Time: 23:35
Client Smp ID: 40PPBSTD
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	7664618	3832309	15329236	7719343	0.71
21 Fluorobenzene	256729	128365	513458	251703	-1.96

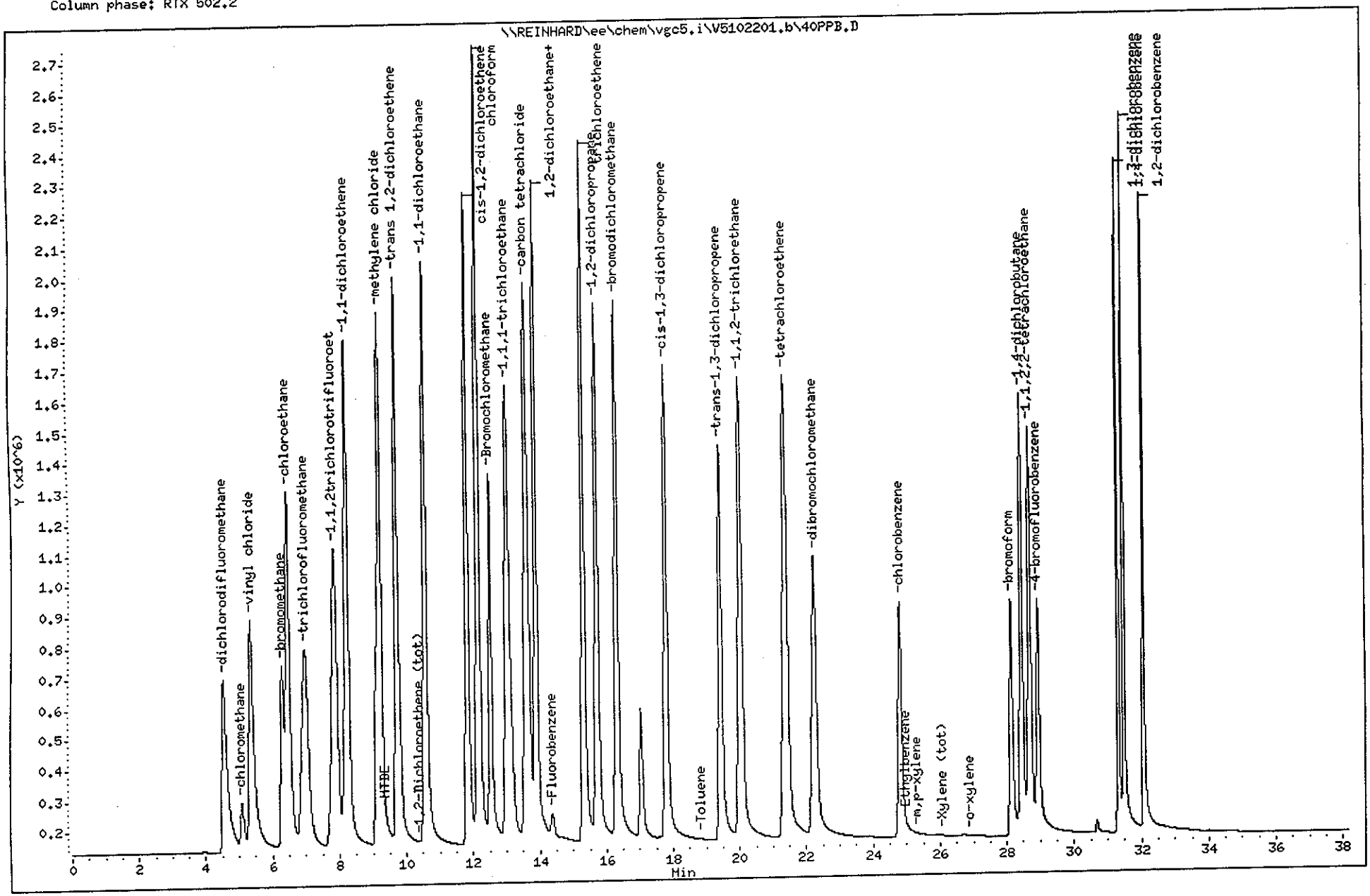
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	12.53	12.03	13.03	12.53	-0.03
21 Fluorobenzene	14.38	13.88	14.88	14.38	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\REINHARD\ee\chem\vgc5.i\V5102201.b\40PPB.D
Date : 23-OCT-2001 00:22
Client ID: 40PPBSTD
Sample Info: 40PPBSTD
Purge Volume: 5.0
Column phase: RTX 502.2

Instrument: vgc5.i

Operator:
Column diameter: 0.53



PEL Laboratories

Data file : \\REINHARD\ee\chem\vgc5.i\V5102201.b\50PPB.D
Lab Smp Id: 50PPBSTD Client Smp ID: 50PPBSTD
Inj Date : 23-OCT-2001 01:08
Operator : Inst ID: vgc5.i
Smp Info : 50PPBSTD
Misc Info :
Comment :
Method : \\Reinhard\ee\chem\vgc5.i\V5102201.b\8021.m
Meth Date : 01-Nov-2001 15:04 kavita Quant Type: ISTD
Cal Date : 23-OCT-2001 01:55 Cal File: 100PPB.D
Als bottle: 14 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

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	1 dichlorodifluoromethane	AIB1A	4.533	4.533	(0.362)	8534223	50.0000	53.4
	2 chloromethane	AIB1A	5.083	5.083	(0.406)	1199803	50.0000	61.2(A)
	3 vinyl chloride	AIB1A	5.343	5.343	(0.427)	10112338	50.0000	55.3(A)
	4 bromomethane	AIB1A	6.290	6.290	(0.502)	4994004	50.0000	52.5
	5 chloroethane	AIB1A	6.463	6.463	(0.516)	13188900	50.0000	54.1
	6 trichlorofluoromethane	AIB1A	6.976	6.976	(0.557)	11866291	50.0000	53.8
	7 1,1,2trichlorotrifluoroethane	AIB1A	7.866	7.866	(0.628)	14888667	50.0000	48.6
	8 1,1-dichloroethene	AIB1A	8.226	8.226	(0.657)	16265864	50.0000	49.8
	9 methylene chloride	AIB1A	9.216	9.216	(0.736)	20538369	50.0000	45.6(M)
	10 MTBE	FID2B	9.390	9.390	(0.653)	270408	50.0000	49.6
	11 trans 1,2-dichloroethene	AIB1A	9.713	9.713	(0.775)	18119122	50.0000	50.2
M	12 1,2-Dichloroethene (tot)	AIB1A				35839572	100.000	101
	13 1,1-dichloroethane	AIB1A	10.576	10.576	(0.844)	19016925	50.0000	53.1
	14 cis-1,2-dichloroethene	AIB1A	11.833	11.833	(0.945)	17720450	50.0000	51.0
	15 chloroform	AIB1A	12.163	12.163	(0.971)	23583722	50.0000	49.7
*	16 Bromochloromethane	AIB1A	12.526	12.526	(1.000)	7953993	30.0000	
	17 1,1,1-trichloroethane	AIB1A	13.036	13.036	(1.041)	19696823	50.0000	47.3
	18 carbon tetrachloride	AIB1A	13.616	13.616	(1.087)	22366738	50.0000	51.2
	19 1,2-dichloroethane	AIB1A	13.900	13.900	(1.110)	17148239	50.0000	46.3
	20 Benzene	FID2B	13.953	13.953	(0.970)	721571	50.0000	49.2
*	21 Fluorobenzene	FID2B	14.380	14.380	(1.000)	265428	30.0000	
	22 trichloroethene	AIB1A	15.320	15.320	(1.223)	19940818	50.0000	50.8

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
	23 1,2-dichloropropane	AIB1A	15.723	15.723	(1.255)	16363517	50.0000	47.4
	24 bromodichloromethane	AIB1A	16.323	16.323	(1.303)	16758420	50.0000	49.9
	25 cis-1,3-dichloropropene	AIB1A	17.793	17.793	(1.420)	15434376	50.0000	50.0
	26 Toluene	FID2B	18.856	18.856	(1.311)	673122	50.0000	47.6
	27 trans-1,3-dichloropropene	AIB1A	19.430	19.430	(1.551)	13189829	50.0000	54.3
	28 1,1,2-trichlorethane	AIB1A	20.036	20.036	(1.600)	17182532	50.0000	50.6
	29 tetrachloroethene	AIB1A	21.380	21.380	(1.707)	21973206	50.0000	51.6
	30 dibromochloromethane	AIB1A	22.243	22.243	(1.776)	12046228	50.0000	53.7
	31 chlorobenzene	AIB1A	24.810	24.810	(1.981)	8662732	50.0000	51.9
	32 Ethylbenzene	FID2B	25.000	25.000	(1.739)	625400	50.0000	46.3
	33 m,p-xylene	FID2B	25.293	25.293	(1.759)	1384077	100.000	90.0
M	34 Xylene (tot)	FID2B				1953316	150.000	138
	35 o-xylene	FID2B	26.876	26.876	(1.869)	569239	50.0000	48.0
	36 bromoform	AIB1A	28.133	28.133	(2.246)	6662736	50.0000	54.6
$	37 1,4-dichlorobutane	AIB1A	28.443	28.443	(2.271)	10992793	50.0000	42.2
	38 1,1,2,2-tetrachloroethane	AIB1A	28.686	28.686	(2.290)	10673799	50.0000	45.5
$	39 4-bromofluorobenzene	FID2B	28.920	28.920	(2.011)	679480	50.0000	43.4
	40 1,3-dichlorobenzene	AIB1A	31.313	31.313	(2.500)	9954989	50.0000	51.9
	41 1,4-dichlorobenzene	AIB1A	31.483	31.483	(2.513)	10827074	50.0000	47.1
	42 1,2-dichlorobenzene	AIB1A	32.066	32.066	(2.560)	10196431	50.0000	49.3

QC Flag Legend

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

PEL Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vgc5.i
Lab File ID: 50PPB.D
Lab Smp Id: 50PPBSTD
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\Reinhard\ee\chem\vgc5.i\V5102201.b\8021.m
Misc Info:

Calibration Date: 22-OCT-2001
Calibration Time: 23:35
Client Smp ID: 50PPBSTD
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	7664618	3832309	15329236	7953993	3.78
21 Fluorobenzene	256729	128365	513458	265428	3.39

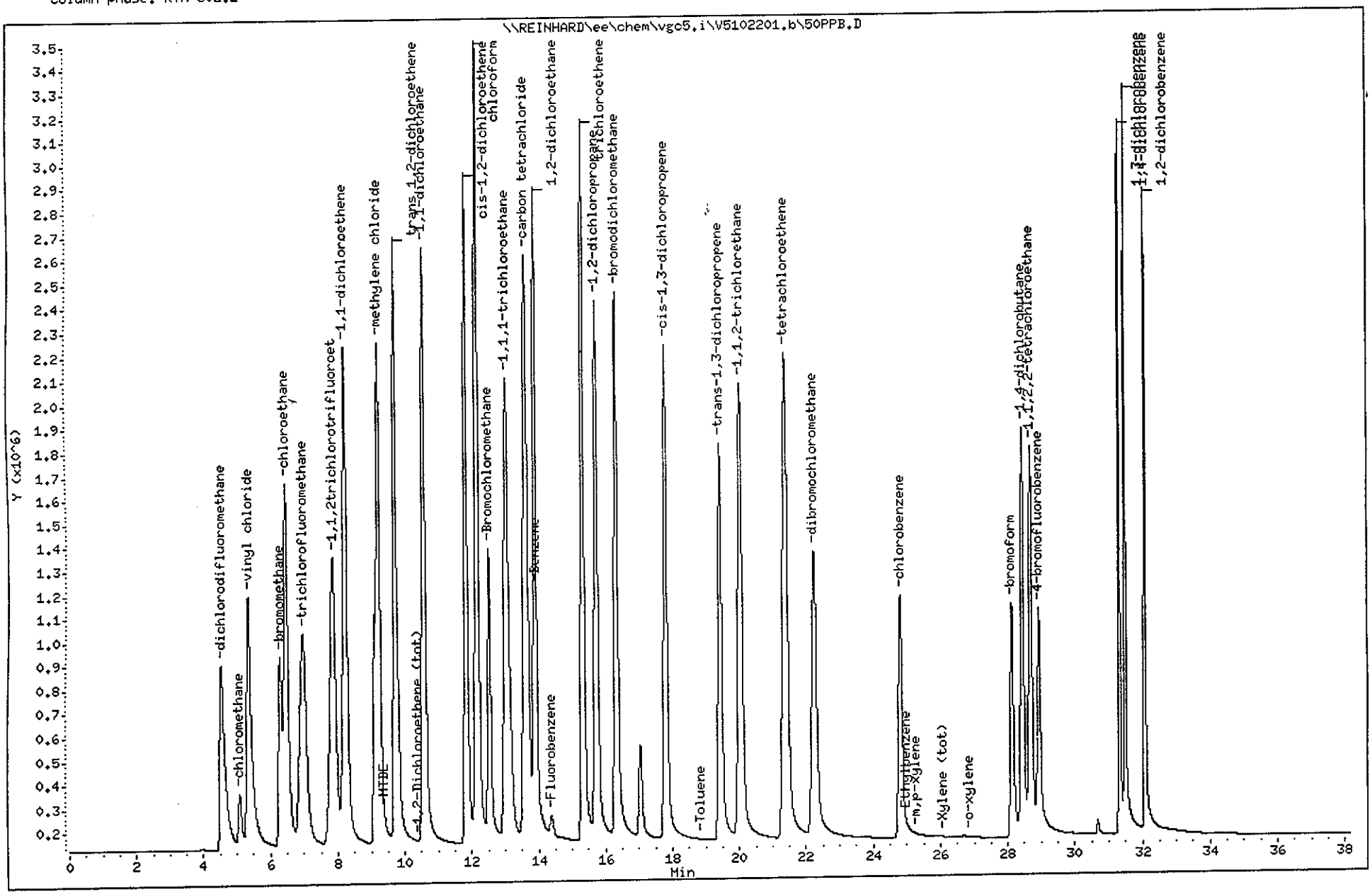
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	12.53	12.03	13.03	12.53	-0.03
21 Fluorobenzene	14.38	13.88	14.88	14.38	-0.02

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\REINHARD\ee\chem\vgc5.i\V5102201.b\50PPB.D
Date : 23-OCT-2001 01:08
Client ID: 50PPBSTD
Sample Info: 50PPBSTD
Purge Volume: 5.0
Column phase: RTX 502.2

Instrument: vgc5.i

Operator:
Column diameter: 0.53



PEL Laboratories

Data file : \\REINHARD\ee\chem\vgc5.i\V5102201.b\100PPB.D
Lab Smp Id: 100PPBSTD Client Smp ID: 100PPBSTD
Inj Date : 23-OCT-2001 01:55
Operator : Inst ID: vgc5.i
Smp Info : 100PPBSTD
Misc Info :
Comment :
Method : \\Reinhard\ee\chem\vgc5.i\V5102201.b\8021.m
Meth Date : 01-Nov-2001 15:04 kavita Quant Type: ISTD
Cal Date : 23-OCT-2001 01:55 Cal File: 100PPB.D
Als bottle: 15 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

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	1 dichlorodifluoromethane	AIB1A	4.520	4.520	(0.361)	16507245	100.000	100(A)
	2 chloromethane	AIB1A	5.070	5.070	(0.405)	2387644	100.000	118(A)
	3 vinyl chloride	AIB1A	5.336	5.336	(0.426)	19386097	100.000	103(A)
	4 bromomethane	AIB1A	6.263	6.263	(0.500)	9618357	100.000	98.1(A)
	5 chloroethane	AIB1A	6.443	6.443	(0.515)	22615510	100.000	90.0(A)
	6 trichlorofluoromethane	AIB1A	6.960	6.960	(0.556)	23066896	100.000	101(A)
	7 1,1,2trichlorotrifluoroethane	AIB1A	7.836	7.836	(0.626)	26739806	100.000	84.8
	8 1,1-dichloroethene	AIB1A	8.213	8.213	(0.656)	30689099	100.000	91.1(A)
	9 methylene chloride	AIB1A	9.213	9.213	(0.736)	40126885	100.000	86.4(A)
	10 MTBE	FID2B	9.393	9.393	(0.653)	518896	100.000	91.9
	11 trans 1,2-dichloroethene	AIB1A	9.706	9.706	(0.775)	33529048	100.000	90.1(A)
M	12 1,2-Dichloroethene (tot)	AIB1A				66547557	200.000	182
	13 1,1-dichloroethane	AIB1A	10.563	10.563	(0.843)	35420893	100.000	95.9(A)
	14 cis-1,2-dichloroethene	AIB1A	11.826	11.826	(0.944)	33018509	100.000	92.2(A)
	15 chloroform	AIB1A	12.160	12.160	(0.971)	44179649	100.000	90.3(A)
*	16 Bromochloromethane	AIB1A	12.523	12.523	(1.000)	8200885	30.0000	
	17 1,1,1-trichloroethane	AIB1A	13.036	13.036	(1.041)	36786085	100.000	85.7(A)
	18 carbon tetrachloride	AIB1A	13.613	13.613	(1.087)	40817430	100.000	90.7(A)
	19 1,2-dichloroethane	AIB1A	13.896	13.896	(1.110)	31826442	100.000	83.4(A)
	20 Benzene	FID2B	13.950	13.950	(0.970)	1431854	100.000	94.3
*	21 Fluorobenzene	FID2B	14.380	14.380	(1.000)	274881	30.0000	
	22 trichloroethene	AIB1A	15.320	15.320	(1.223)	36890512	100.000	91.1(A)

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
	23 1,2-dichloropropane	AIB1A	15.723	15.723	(1.256)	30709975	100.000	86.2(A)
	24 bromodichloromethane	AIB1A	16.320	16.320	(1.303)	30936079	100.000	89.4(A)
	25 cis-1,3-dichloropropene	AIB1A	17.796	17.796	(1.421)	27967051	100.000	88.0(AM)
	26 Toluene	FID2B	18.856	18.856	(1.311)	1323292	100.000	90.4
	27 trans-1,3-dichloropropene	AIB1A	19.430	19.430	(1.552)	24855405	100.000	99.3(A)
	28 1,1,2-trichlorethane	AIB1A	20.033	20.033	(1.600)	31505433	100.000	89.9(A)
	29 tetrachloroethene	AIB1A	21.380	21.380	(1.707)	39665905	100.000	90.3(A)
	30 dibromochloromethane	AIB1A	22.243	22.243	(1.776)	22406320	100.000	96.9(A)
	31 chlorobenzene	AIB1A	24.813	24.813	(1.981)	16639062	100.000	96.7
	32 Ethylbenzene	FID2B	24.996	24.996	(1.738)	1241882	100.000	88.9
	33 m,p-xylene	FID2B	25.296	25.296	(1.759)	2728983	200.000	171
M	34 Xylene (tot)	FID2B				3865136	300.000	264
	35 o-xylene	FID2B	26.876	26.876	(1.869)	1136153	100.000	92.6
	36 bromoform	AIB1A	28.133	28.133	(2.246)	12793668	100.000	102(A)
$	37 1,4-dichlorobutane	AIB1A	28.443	28.443	(2.271)	20314129	100.000	75.6(A)
	38 1,1,2,2-tetrachloroethane	AIB1A	28.686	28.686	(2.291)	19792060	100.000	81.8(A)
$	39 4-bromofluorobenzene	FID2B	28.916	28.916	(2.011)	1349030	100.000	83.2(A)
	40 1,3-dichlorobenzene	AIB1A	31.313	31.313	(2.500)	19294697	100.000	97.6
	41 1,4-dichlorobenzene	AIB1A	31.480	31.480	(2.514)	21352558	100.000	90.0
	42 1,2-dichlorobenzene	AIB1A	32.066	32.066	(2.561)	18662945	100.000	87.5(M)

QC Flag Legend

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

PEL Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vgc5.i
Lab File ID: 100PPB.D
Lab Smp Id: 100PPBSTD
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\Reinhard\ee\chem\vgc5.i\V5102201.b\8021.m
Misc Info:

Calibration Date: 22-OCT-2001
Calibration Time: 23:35
Client Smp ID: 100PPBSTD
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	7664618	3832309	15329236	8200885	7.00
21 Fluorobenzene	256729	128365	513458	274881	7.07

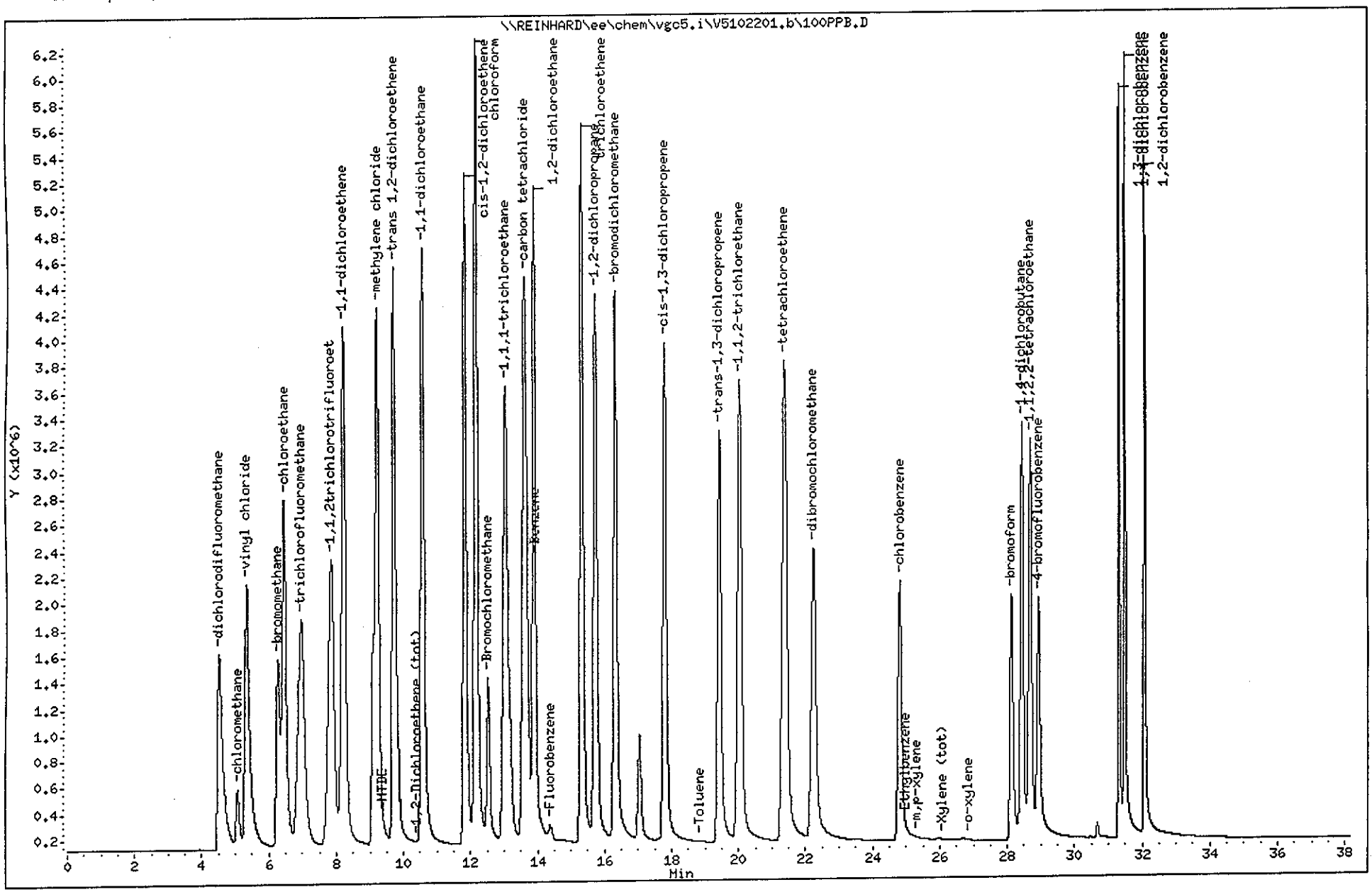
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	12.53	12.03	13.03	12.52	-0.05
21 Fluorobenzene	14.38	13.88	14.88	14.38	-0.02

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\REINHARD\ee\chem\vgc5.i\V5102201.b\100PPB.D
Date : 23-OCT-2001 01:55
Client ID: 100PPBSTD
Sample Info: 100PPBSTD
Purge Volume: 5.0
Column phase: RTX 502.2

Instrument: vgc5.i

Operator:
Column diameter: 0.53



PEL Laboratories

Data file : \\REINHARD\ee\chem\vgc6.i\V610230Ps.b\100PPB.D
Lab Smp Id: 100PPBSTD Client Smp ID: 100PPBSTD
Inj Date : 23-OCT-2001 13:30
Operator : Inst ID: vgc6.i
Smp Info : 100PPBSTD
Misc Info :
Comment :
Method : \\REINHARD\ee\chem\vgc6.i\V610230Ps.b\8021S.m
Meth Date : 01-Nov-2001 15:40 kavita Quant Type: ISTD
Cal Date : 23-OCT-2001 13:30 Cal File: 100PPB.D
Als bottle: 1 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

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
	1 dichlorodifluoromethane	AIB1A	4.853	4.853	(0.370)	12244926	100.000	84.7(A)
	2 chloromethane	AIB1A	5.413	5.413	(0.412)	1740355	100.000	89.6(A)
	3 vinyl chloride	AIB1A	5.686	5.686	(0.433)	12978890	100.000	95.0(AM)
	4 bromomethane	AIB1A	6.656	6.656	(0.507)	6723675	100.000	74.5(A)
	5 chloroethane	AIB1A	6.856	6.856	(0.522)	13913312	100.000	74.6(A)
	6 trichlorofluoromethane	AIB1A	7.386	7.386	(0.563)	16856154	100.000	91.2(A)
	7 1,1,2 Trichlorotrifluoroethane	AIB1A	8.710	8.710	(0.664)	22346873	100.000	89.2
	8 1,1-dichloroethene	AIB1A	8.710	8.710	(0.664)	19366599	100.000	84.8(AM)
	9 methylene chloride	AIB1A	9.733	9.733	(0.741)	21244951	100.000	79.5(A)
	10 MTBE	FID2B	9.973	9.973	(0.664)	244919	100.000	88.0(H)
M	11 1,2-Dichloroethene (tot)	AIB1A				35781465	200.000	158
	12 trans 1,2-dichloroethene	AIB1A	10.263	10.263	(0.782)	19011103	100.000	83.4(A)
	13 1,1-dichloroethane	AIB1A	11.140	11.140	(0.849)	18472259	100.000	82.1(A)
	14 cis-1,2-dichloroethene	AIB1A	12.423	12.423	(0.946)	16770362	100.000	74.7(A)
	15 chloroform	AIB1A	12.756	12.756	(0.972)	23142483	100.000	80.3(A)
*	16 Bromochloromethane	AIB1A	13.126	13.126	(1.000)	3828293	30.0000	
	17 1,1,1-trichloroethane	AIB1A	13.643	13.643	(1.039)	19750840	100.000	86.6(A)
	18 carbon tetrachloride	AIB1A	14.236	14.236	(1.085)	22983130	100.000	85.5(AM)
	19 1,2-dichloroethane	AIB1A	14.506	14.506	(1.105)	16928051	100.000	75.3(A)
	20 Benzene	FID2B	14.583	14.583	(0.971)	703535	100.000	92.0
*	21 Fluorobenzene	FID2B	15.016	15.016	(1.000)	116992	30.0000	
	22 trichloroethene	AIB1A	15.980	15.980	(1.217)	22061431	100.000	83.4(A)

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
	23 1,2-dichloropropane	AIB1A	16.403	16.403	(1.250)	16056091	100.000	77.5(A)
	24 bromodichloromethane	AIB1A	17.050	17.050	(1.299)	16079483	100.000	74.0(A)
	25 cis-1,3-dichloropropene	AIB1A	18.603	18.603	(1.417)	14193588	100.000	80.3(A)
	26 Toluene	FID2B	19.756	19.756	(1.316)	645604	100.000	89.5
	27 trans-1,3-dichloropropene	AIB1A	20.356	20.356	(1.551)	12930564	100.000	78.5(AM)
	28 1,1,2-trichlorethane	AIB1A	21.003	21.003	(1.600)	15314382	100.000	75.7(A)
	29 tetrachloroethene	AIB1A	22.450	22.450	(1.710)	21553127	100.000	82.0(A)
	30 dibromochloromethane	AIB1A	23.296	23.296	(1.775)	11482805	100.000	77.6(A)
M	31 Xylene (tot)	FID2B				1837532	300.000	255
	32 chlorobenzene	AIB1A	25.920	25.920	(1.975)	8254633	100.000	77.8
	33 Ethylbenzene	FID2B	26.123	26.123	(1.740)	593675	100.000	86.1
	34 m,p-xylene	FID2B	26.450	26.450	(1.761)	1308356	200.000	168
	35 o-xylene	FID2B	28.210	28.210	(1.879)	529176	100.000	86.1
	36 bromoform	AIB1A	29.633	29.633	(2.257)	7446009	100.000	72.1(A)
$	37 1,4-dichlorobutane	AIB1A	29.990	29.990	(2.285)	8954777	100.000	76.4(A)
	38 1,1,2,2-tetrachloroethane	AIB1A	30.280	30.280	(2.307)	9058874	100.000	57.6(A)
$	39 4-bromofluorobenzene	FID2B	30.576	30.576	(2.036)	550243	100.000	82.1(A)
	40 1,3-dichlorobenzene	AIB1A	34.673	34.673	(2.641)	10090915	100.000	75.7(M)
	41 1,4-dichlorobenzene	AIB1A	35.060	35.060	(2.671)	9975275	100.000	72.3
	42 1,2-dichlorobenzene	AIB1A	36.350	36.350	(2.769)	9387102	100.000	65.9

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

PEL Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vgc6.i
Lab File ID: 100PPB.D
Lab Smp Id: 100PPBSTD
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\REINHARD\ee\chem\vgc6.i\V610230Ps.b\8021S.m
Misc Info:

Calibration Date: 23-OCT-2001
Calibration Time: 16:13
Client Smp ID: 100PPBSTD
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	3651678	1825839	7303356	3828293	4.84
21 Fluorobenzene	100103	50052	200206	116992	16.87

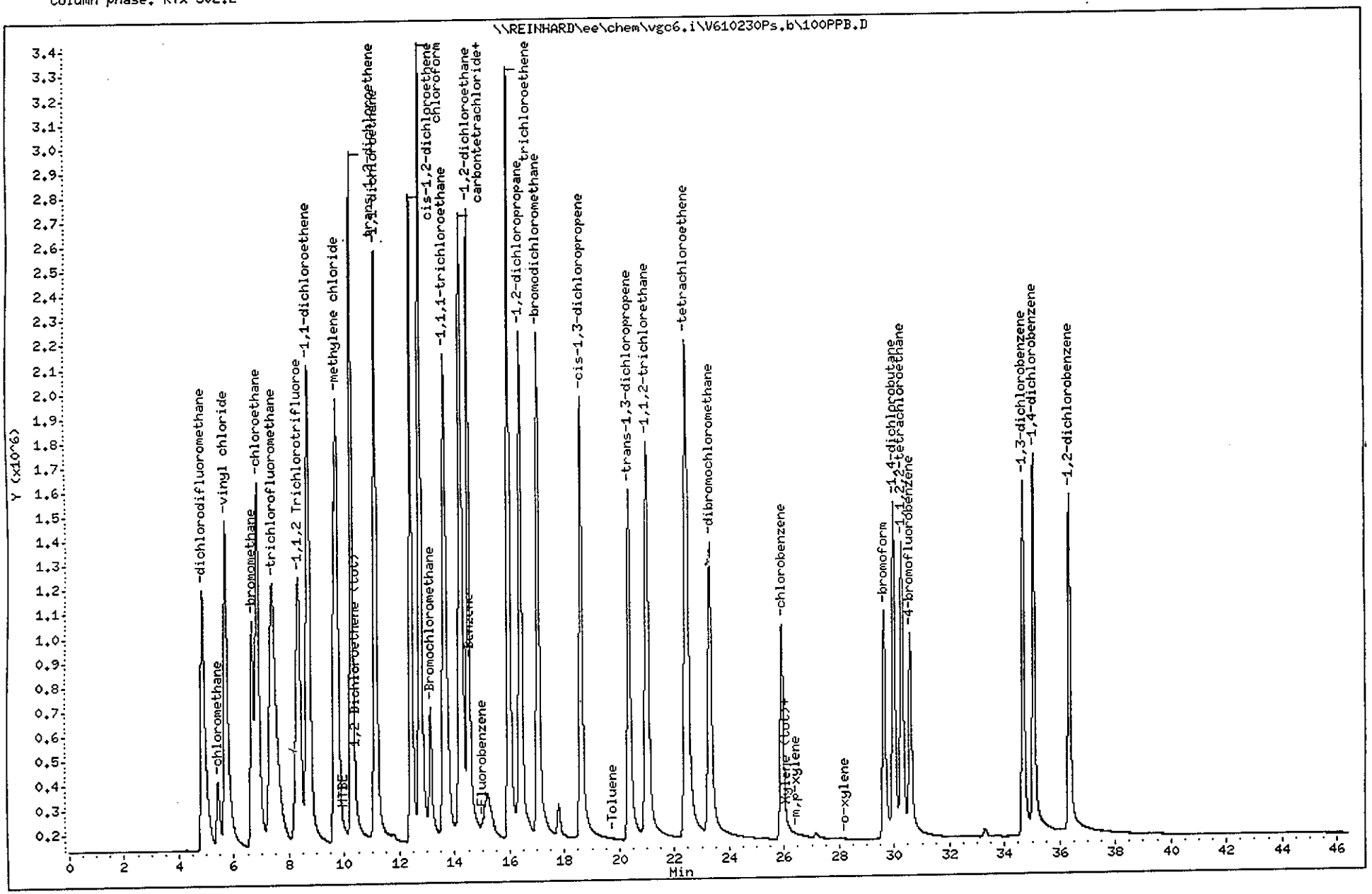
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	13.15	12.65	13.65	13.13	-0.15
21 Fluorobenzene	15.03	14.53	15.53	15.02	-0.11

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\REINHARD\ee\chem\vgc6.i\V610230Ps.b\100PPB.D
Date : 23-OCT-2001 13:30
Client ID: 100PPBSTD
Sample Info: 100PPBSTD
Purge Volume: 5.0
Column phase: RTx-502.2

Instrument: vgc6.i

Operator:
Column diameter: 0.53



PEL Laboratories

Data file : \\REINHARD\ee\chem\vgc6.i\V610230Ps.b\50PPB.D
Lab Smp Id: 50PPBSTD Client Smp ID: 50PPBSTD
Inj Date : 23-OCT-2001 14:25
Operator : Inst ID: vgc6.i
Smp Info : 50PPBSTD
Misc Info :
Comment :
Method : \\REINHARD\ee\chem\vgc6.i\V610230Ps.b\8021S.m
Meth Date : 01-Nov-2001 15:40 kavita Quant Type: ISTD
Cal Date : 23-OCT-2001 13:30 Cal File: 100PPB.D
Als bottle: 2 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

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
	1 dichlorodifluoromethane	AIB1A	4.870	4.870	(0.371)	6489855	50.0000	45.4
	2 chloromethane	AIB1A	5.420	5.420	(0.412)	836032	50.0000	43.6
	3 vinyl chloride	AIB1A	5.706	5.706	(0.434)	6782676	50.0000	50.3
	4 bromomethane	AIB1A	6.696	6.696	(0.510)	4112063	50.0000	46.2
	5 chloroethane	AIB1A	6.880	6.880	(0.524)	8121926	50.0000	44.1
	6 trichlorofluoromethane	AIB1A	7.423	7.423	(0.565)	8603659	50.0000	47.1
	7 1,1,2 Trichlorotrifluoroethane	AIB1A	8.720	8.720	(0.664)	12019536	50.0000	48.5
	8 1,1-dichloroethene	AIB1A	8.720	8.720	(0.664)	10176510	50.0000	45.1(M)
	9 methylene chloride	AIB1A	9.730	9.730	(0.740)	11120853	50.0000	42.1(M)
	10 MTBE	FID2B	9.956	9.956	(0.663)	124274	50.0000	50.3
M	11 1,2-Dichloroethene (tot)	AIB1A				19349712	100.000	86.6
	12 trans 1,2-dichloroethene	AIB1A	10.276	10.276	(0.782)	10127331	50.0000	45.0
	13 1,1-dichloroethane	AIB1A	11.150	11.150	(0.849)	9778223	50.0000	44.0
	14 cis-1,2-dichloroethene	AIB1A	12.433	12.433	(0.946)	9222381	50.0000	41.6
	15 chloroform	AIB1A	12.766	12.766	(0.972)	12634734	50.0000	44.4
*	16 Bromochloromethane	AIB1A	13.140	13.140	(1.000)	3781648	30.0000	
	17 1,1,1-trichloroethane	AIB1A	13.656	13.656	(1.039)	10753756	50.0000	47.7
	18 carbon tetrachloride	AIB1A	14.240	14.240	(1.084)	11796786	50.0000	44.4(M)
	19 1,2-dichloroethane	AIB1A	14.516	14.516	(1.105)	9424556	50.0000	42.5
	20 Benzene	FID2B	14.590	14.590	(0.971)	341087	50.0000	50.2
*	21 Fluorobenzene	FID2B	15.023	15.023	(1.000)	103830	30.0000	
	22 trichloroethene	AIB1A	15.993	15.993	(1.217)	10735582	50.0000	41.1

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
	23 1,2-dichloropropane	AIB1A	16.416	16.416	(1.249)	8623640	50.0000	42.1
	24 bromodichloromethane	AIB1A	17.056	17.056	(1.298)	8686315	50.0000	40.4
	25 cis-1,3-dichloropropene	AIB1A	18.620	18.620	(1.417)	7448354	50.0000	42.7
	26 Toluene	FID2B	19.770	19.770	(1.316)	313512	50.0000	49.0
	27 trans-1,3-dichloropropene	AIB1A	20.366	20.366	(1.550)	7136729	50.0000	43.9
	28 1,1,2-trichlorethane	AIB1A	21.016	21.016	(1.599)	8781470	50.0000	44.0
	29 tetrachloroethene	AIB1A	22.466	22.466	(1.710)	11598320	50.0000	44.7(M)
	30 dibromochloromethane	AIB1A	23.320	23.320	(1.775)	6201746	50.0000	42.4
M	31 Xylene (tot)	FID2B				910143	150.000	142
	32 chlorobenzene	AIB1A	25.930	25.930	(1.973)	4554586	50.0000	43.4
	33 Ethylbenzene	FID2B	26.136	26.136	(1.740)	290379	50.0000	47.5
	34 m,p-xylene	FID2B	26.460	26.460	(1.761)	649179	100.000	94.2
	35 o-xylene	FID2B	28.220	28.220	(1.878)	260964	50.0000	47.8
	36 bromoform	AIB1A	29.650	29.650	(2.256)	4156547	50.0000	40.7
$	37 1,4-dichlorobutane	AIB1A	30.003	30.003	(2.283)	4837274	50.0000	41.8
	38 1,1,2,2-tetrachloroethane	AIB1A	30.300	30.300	(2.306)	6481112	50.0000	41.7
$	39 4-bromofluorobenzene	FID2B	30.590	30.590	(2.036)	269808	50.0000	45.4
	40 1,3-dichlorobenzene	AIB1A	34.696	34.696	(2.641)	5480778	50.0000	41.6(M)
	41 1,4-dichlorobenzene	AIB1A	35.070	35.070	(2.669)	5371676	50.0000	39.4
	42 1,2-dichlorobenzene	AIB1A	36.363	36.363	(2.767)	5400149	50.0000	38.4

QC Flag Legend

M - Compound response manually integrated.

PEL Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vgc6.i
Lab File ID: 50PPB.D
Lab Smp Id: 50PPBSTD
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\REINHARD\ee\chem\vgc6.i\V610230Ps.b\8021S.m
Misc Info:

Calibration Date: 23-OCT-2001
Calibration Time: 16:13
Client Smp ID: 50PPBSTD
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	3651678	1825839	7303356	3781648	3.56
21 Fluorobenzene	100103	50052	200206	103830	3.72

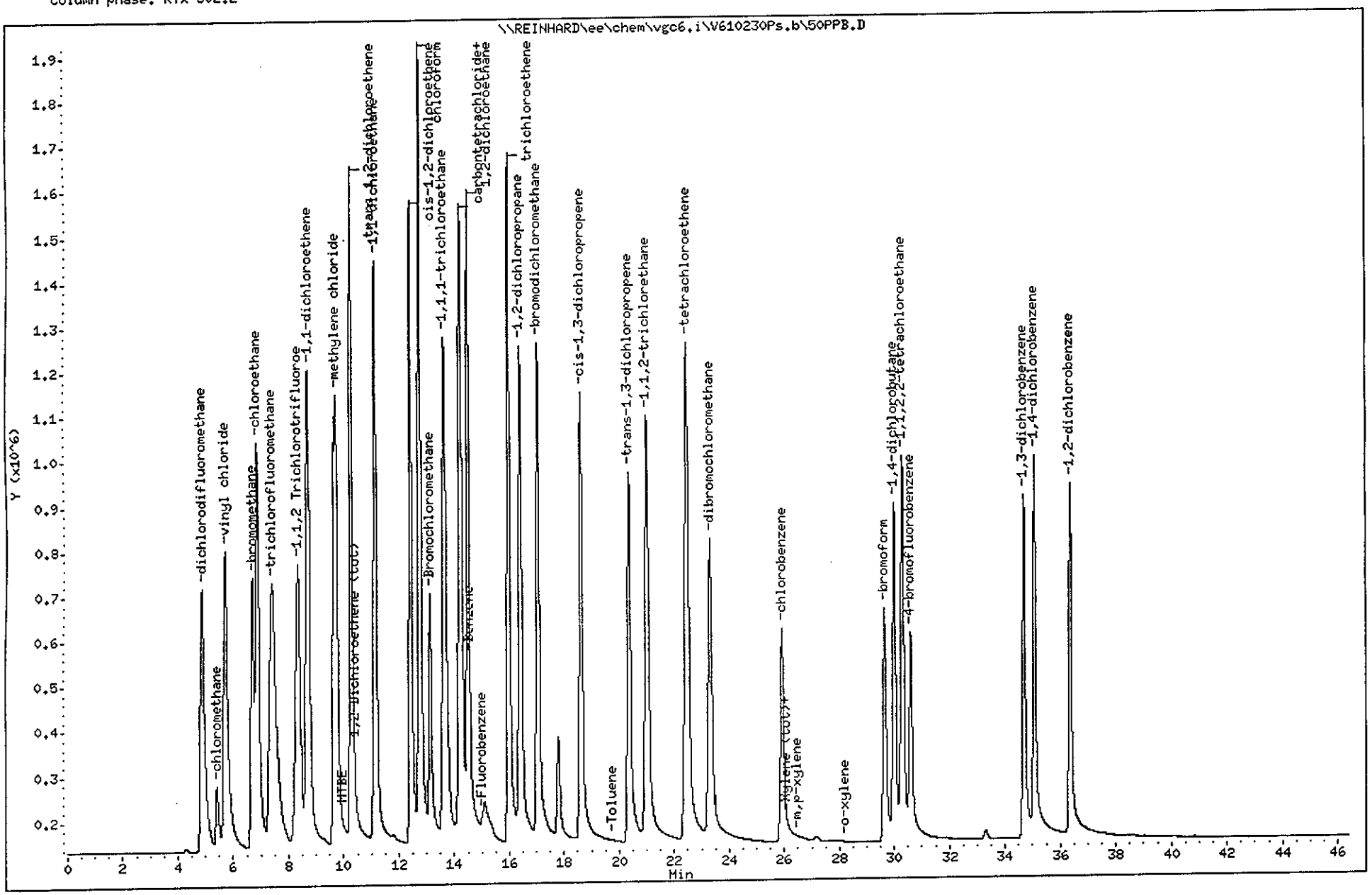
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	13.15	12.65	13.65	13.14	-0.05
21 Fluorobenzene	15.03	14.53	15.53	15.02	-0.07

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\REINHARD\ee\chem\vgc6.i\V610230Ps.b\50PPB.D
Date : 23-OCT-2001 14:25
Client ID: 50PPBSTD
Sample Info: 50PPBSTD
Purge Volume: 5.0
Column phase: RTx-502.2

Instrument: vgc6.i

Operator:
Column diameter: 0.53



PEL Laboratories

Data file : \\REINHARD\ee\chem\vgc6.i\V610230Ps.b\40PPB.D
Lab Smp Id: 40PPBSTD Client Smp ID: 40PPBSTD
Inj Date : 23-OCT-2001 15:19
Operator : Inst ID: vgc6.i
Smp Info : 40PPBSTD
Misc Info :
Comment :
Method : \\REINHARD\ee\chem\vgc6.i\V610230Ps.b\8021S.m
Meth Date : 01-Nov-2001 15:40 kavita Quant Type: ISTD
Cal Date : 23-OCT-2001 13:30 Cal File: 100PPB.D
Als bottle: 3 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

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	1 dichlorodifluoromethane	AIB1A	4.873	4.873	(0.371)	4910524	40.0000	35.2
	2 chloromethane	AIB1A	5.430	5.430	(0.413)	646601	40.0000	34.5
	3 vinyl chloride	AIB1A	5.726	5.726	(0.436)	5024177	40.0000	38.1
	4 bromomethane	AIB1A	6.713	6.713	(0.511)	3200008	40.0000	36.8
	5 chloroethane	AIB1A	6.896	6.896	(0.525)	6054695	40.0000	33.7
	6 trichlorofluoromethane	AIB1A	7.436	7.436	(0.566)	6202762	40.0000	34.8
	7 1,1,2 Trichlorotrifluoroethane	AIB1A	8.730	8.730	(0.664)	9047682	40.0000	37.4
	8 1,1-dichloroethene	AIB1A	8.730	8.730	(0.664)	8353663	40.0000	37.9(M)
	9 methylene chloride	AIB1A	9.736	9.736	(0.741)	8952161	40.0000	34.7
	10 MTBE	FID2B	9.966	9.966	(0.663)	95233	40.0000	39.8
M	11 1,2-Dichloroethene (tot)	AIB1A				14319342	80.0000	65.6
	12 trans 1,2-dichloroethene	AIB1A	10.286	10.286	(0.782)	7320352	40.0000	33.3(M)
	13 1,1-dichloroethane	AIB1A	11.156	11.156	(0.849)	7419852	40.0000	34.2
	14 cis-1,2-dichloroethene	AIB1A	12.443	12.443	(0.947)	6998990	40.0000	32.3
	15 chloroform	AIB1A	12.773	12.773	(0.972)	9669289	40.0000	34.8
*	16 Bromochloromethane	AIB1A	13.146	13.146	(1.000)	3692859	30.0000	
	17 1,1,1-trichloroethane	AIB1A	13.666	13.666	(1.040)	8175675	40.0000	37.2
	18 carbon tetrachloride	AIB1A	14.250	14.250	(1.084)	9212027	40.0000	35.5(M)
	19 1,2-dichloroethane	AIB1A	14.526	14.526	(1.105)	7338939	40.0000	33.9
	20 Benzene	FID2B	14.600	14.600	(0.971)	258444	40.0000	39.3
*	21 Fluorobenzene	FID2B	15.030	15.030	(1.000)	100615	30.0000	
	22 trichloroethene	AIB1A	16.000	16.000	(1.217)	8462606	40.0000	33.2

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
	23 1,2-dichloropropane	AIB1A	16.430	16.430	(1.250)	6696392	40.0000	33.5
	24 bromodichloromethane	AIB1A	17.066	17.066	(1.298)	6760181	40.0000	32.2
	25 cis-1,3-dichloropropene	AIB1A	18.626	18.626	(1.417)	5731396	40.0000	33.6
	26 Toluene	FID2B	19.780	19.780	(1.316)	236408	40.0000	38.1
	27 trans-1,3-dichloropropene	AIB1A	20.373	20.373	(1.550)	5407393	40.0000	34.0
	28 1,1,2-trichlorethane	AIB1A	21.023	21.023	(1.599)	6706683	40.0000	34.4
	29 tetrachloroethene	AIB1A	22.473	22.473	(1.709)	9280138	40.0000	36.6(M)
	30 dibromochloromethane	AIB1A	23.326	23.326	(1.774)	4788177	40.0000	33.6
M	31 Xylene (tot)	FID2B				685994	120.000	110
	32 chlorobenzene	AIB1A	25.940	25.940	(1.973)	3533109	40.0000	34.5
	33 Ethylbenzene	FID2B	26.143	26.143	(1.739)	219420	40.0000	37.0
	34 m,p-xylene	FID2B	26.466	26.466	(1.761)	488796	80.0000	73.2
	35 o-xylene	FID2B	28.230	28.230	(1.878)	197198	40.0000	37.3
	36 bromoform	AIB1A	29.660	29.660	(2.256)	3279477	40.0000	32.9
$	37 1,4-dichlorobutane	AIB1A	30.013	30.013	(2.283)	3942117	40.0000	34.9
	38 1,1,2,2-tetrachloroethane	AIB1A	30.303	30.303	(2.305)	5122910	40.0000	33.8
$	39 4-bromofluorobenzene	FID2B	30.596	30.596	(2.036)	214555	40.0000	37.2
	40 1,3-dichlorobenzene	AIB1A	34.696	34.696	(2.639)	4328494	40.0000	33.6(M)
	41 1,4-dichlorobenzene	AIB1A	35.080	35.080	(2.668)	4152192	40.0000	31.2
	42 1,2-dichlorobenzene	AIB1A	36.373	36.373	(2.767)	4153191	40.0000	30.2

QC Flag Legend

M - Compound response manually integrated.

PEL Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vgc6.i
Lab File ID: 40PPB.D
Lab Smp Id: 40PPBSTD
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\REINHARD\ee\chem\vgc6.i\V610230Ps.b\8021S.m
Misc Info:

Calibration Date: 23-OCT-2001
Calibration Time: 16:13
Client Smp ID: 40PPBSTD
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	3651678	1825839	7303356	3692859	1.13
21 Fluorobenzene	100103	50052	200206	100615	0.51

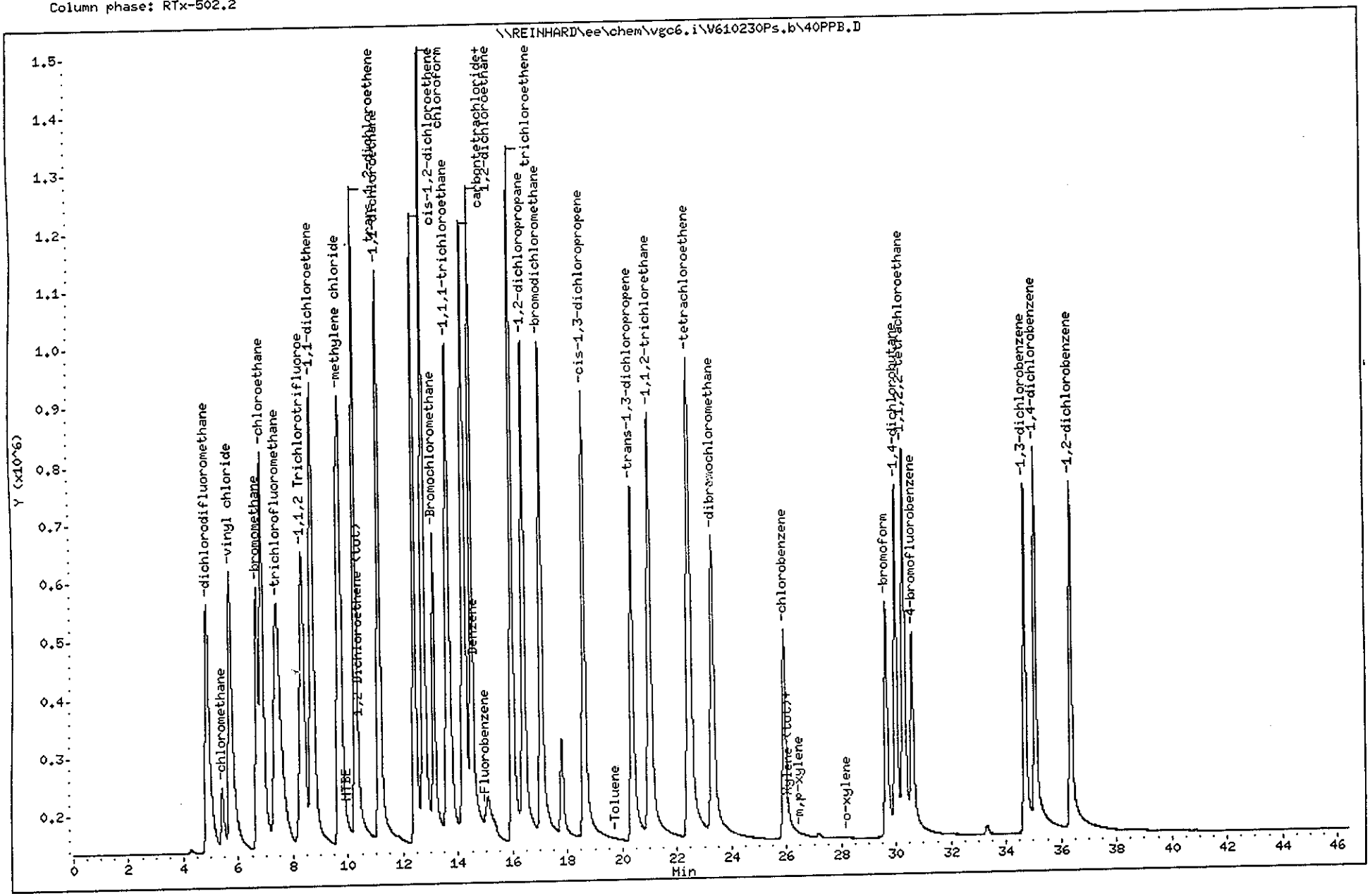
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	13.15	12.65	13.65	13.15	0.00
21 Fluorobenzene	15.03	14.53	15.53	15.03	-0.02

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\REINHARD\ee\chem\vgc6.i\V610230Ps.b\40PPB.D
Date : 23-OCT-2001 15:19
Client ID: 40PPBSTD
Sample Info: 40PPBSTD
Purge Volume: 5.0
Column phase: RTx-502.2

Instrument: vgc6.i

Operator:
Column diameter: 0.53



PEL Laboratories

Data file : \\REINHARD\ee\chem\vgc6.i\V610230Ps.b\30PPB.D
Lab Smp Id: 30PPBSTD Client Smp ID: 30PPBSTD
Inj Date : 23-OCT-2001 16:13
Operator : Inst ID: vgc6.i
Smp Info : 30PPBSTD
Misc Info :
Comment :
Method : \\REINHARD\ee\chem\vgc6.i\V610230Ps.b\8021S.m
Meth Date : 01-Nov-2001 15:40 kavita Quant Type: ISTD
Cal Date : 23-OCT-2001 13:30 Cal File: 100PPB.D
Als bottle: 7 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

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	1 dichlorodifluoromethane	AIB1A	4.880	4.880	(0.371)	3635841	30.0000	26.4
	2 chloromethane	AIB1A	5.433	5.433	(0.413)	488831	30.0000	26.4
	3 vinyl chloride	AIB1A	5.730	5.730	(0.436)	3690750	30.0000	28.3
	4 bromomethane	AIB1A	6.720	6.720	(0.511)	2385325	30.0000	27.7
	5 chloroethane	AIB1A	6.900	6.900	(0.525)	4600202	30.0000	25.9
	6 trichlorofluoromethane	AIB1A	7.446	7.446	(0.566)	4120208	30.0000	23.4
	7 1,1,2 Trichlorotrifluoroethane	AIB1A	8.733	8.733	(0.664)	6677680	30.0000	27.9
	8 1,1-dichloroethene	AIB1A	8.733	8.733	(0.664)	5469538	30.0000	25.1(M)
	9 methylene chloride	AIB1A	9.733	9.733	(0.740)	6866319	30.0000	26.9
	10 MTBE	FID2B	9.966	9.966	(0.663)	72861	30.0000	30.6
M	11 1,2-Dichloroethene (tot)	AIB1A				10845358	60.0000	50.3
	12 trans 1,2-dichloroethene	AIB1A	10.290	10.290	(0.783)	5606271	30.0000	25.8
	13 1,1-dichloroethane	AIB1A	11.163	11.163	(0.849)	5505098	30.0000	25.6
	14 cis-1,2-dichloroethene	AIB1A	12.446	12.446	(0.947)	5239087	30.0000	24.5
	15 chloroform	AIB1A	12.773	12.773	(0.972)	7209987	30.0000	26.2
*	16 Bromochloromethane	AIB1A	13.146	13.146	(1.000)	3651678	30.0000	
	17 1,1,1-trichloroethane	AIB1A	13.666	13.666	(1.040)	5875411	30.0000	27.0
	18 carbon tetrachloride	AIB1A	14.253	14.253	(1.084)	6464381	30.0000	25.2(M)
	19 1,2-dichloroethane	AIB1A	14.530	14.530	(1.105)	5503944	30.0000	25.7
	20 Benzene	FID2B	14.600	14.600	(0.971)	191389	30.0000	29.2
*	21 Fluorobenzene	FID2B	15.033	15.033	(1.000)	100103	30.0000	
	22 trichloroethene	AIB1A	16.003	16.003	(1.217)	6156531	30.0000	24.4

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
	23 1,2-dichloropropane	AIB1A	16.433	16.433	(1.250)	5015950	30.0000	25.4
	24 bromodichloromethane	AIB1A	17.066	17.066	(1.298)	5124410	30.0000	24.7
	25 cis-1,3-dichloropropene	AIB1A	18.630	18.630	(1.417)	4281391	30.0000	25.4
	26 Toluene	FID2B	19.783	19.783	(1.316)	174970	30.0000	28.4
	27 trans-1,3-dichloropropene	AIB1A	20.376	20.376	(1.550)	4139591	30.0000	26.4
	28 1,1,2-trichlorethane	AIB1A	21.033	21.033	(1.600)	4934200	30.0000	25.6
	29 tetrachloroethene	AIB1A	22.483	22.483	(1.710)	5943568	30.0000	23.7(M)
	30 dibromochloromethane	AIB1A	23.326	23.326	(1.774)	3643782	30.0000	25.8
M	31 Xylene (tot)	FID2B				509125	90.0000	82.5
	32 chlorobenzene	AIB1A	25.940	25.940	(1.973)	2474881	30.0000	24.4(M)
	33 Ethylbenzene	FID2B	26.146	26.146	(1.739)	167660	30.0000	28.4(M)
	34 m,p-xylene	FID2B	26.466	26.466	(1.761)	361793	60.0000	54.5
	35 o-xylene	FID2B	28.226	28.226	(1.878)	147332	30.0000	28.0
	36 bromoform	AIB1A	29.660	29.660	(2.256)	2393315	30.0000	24.3
$	37 1,4-dichlorobutane	AIB1A	30.013	30.013	(2.283)	2920759	30.0000	26.1
	38 1,1,2,2-tetrachloroethane	AIB1A	30.306	30.306	(2.305)	3698509	30.0000	24.7
$	39 4-bromofluorobenzene	FID2B	30.596	30.596	(2.035)	162525	30.0000	28.3
	40 1,3-dichlorobenzene	AIB1A	34.700	34.700	(2.639)	3189848	30.0000	25.1(M)
	41 1,4-dichlorobenzene	AIB1A	35.076	35.076	(2.668)	3025382	30.0000	23.0
	42 1,2-dichlorobenzene	AIB1A	36.373	36.373	(2.767)	3031379	30.0000	22.3

QC Flag Legend

M - Compound response manually integrated.

PEL Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vgc6.i
Lab File ID: 30PPB.D
Lab Smp Id: 30PPBSTD
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\REINHARD\ee\chem\vgc6.i\V610230Ps.b\8021S.m
Misc Info:

Calibration Date: 23-OCT-2001
Calibration Time: 16:13
Client Smp ID: 30PPBSTD
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	3651678	1825839	7303356	3651678	0.00
21 Fluorobenzene	100103	50052	200206	100103	0.00

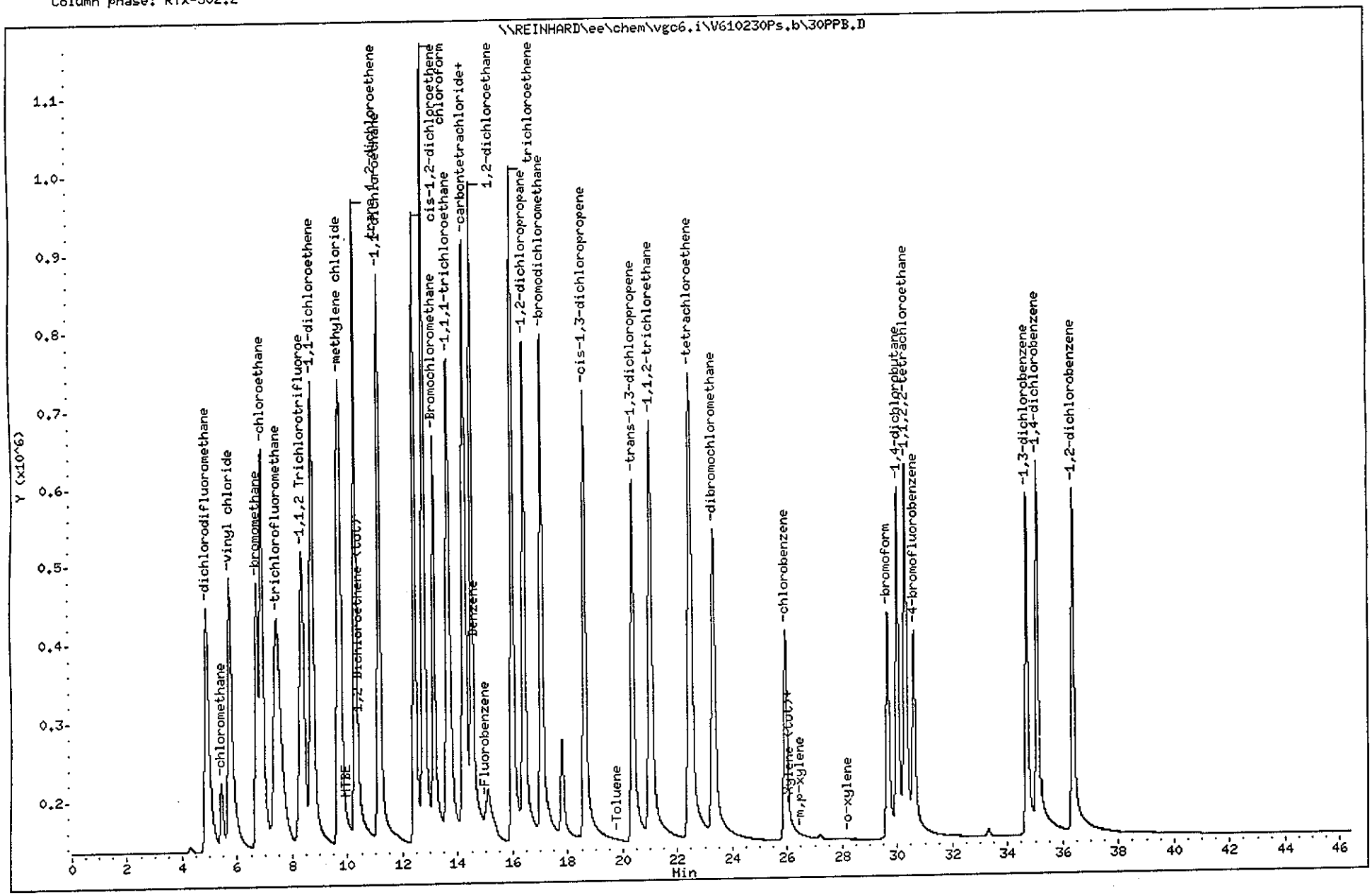
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	13.15	12.65	13.65	13.15	0.00
21 Fluorobenzene	15.03	14.53	15.53	15.03	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\REINHARD\ee\chem\vgc6.i\V610230Ps.b\30PPB.D
Date : 23-OCT-2001 16:13
Client ID: 30PPBSTD
Sample Info: 30PPBSTD
Purge Volume: 5.0
Column phase: RTx-502.2

Instrument: vgc6.i

Operator:
Column diameter: 0.53



PEL Laboratories

Data file : \\REINHARD\ee\chem\vgc6.i\V610230Ps.b\20PPB.D
Lab Smp Id: 20PPBSTD Client Smp ID: 20PPBSTD
Inj Date : 23-OCT-2001 17:08
Operator : Inst ID: vgc6.i
Smp Info : 20PPBSTD
Misc Info :
Comment :
Method : \\REINHARD\ee\chem\vgc6.i\V610230Ps.b\8021S.m
Meth Date : 01-Nov-2001 15:41 kavita Quant Type: ISTD
Cal Date : 23-OCT-2001 13:30 Cal File: 100PPB.D
Als bottle: 8 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

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	1 dichlorodifluoromethane	AIB1A	4.883	4.883	(0.372)	2310955	20.0000	18.5
	2 chloromethane	AIB1A	5.423	5.423	(0.413)	325836	20.0000	19.4
	3 vinyl chloride	AIB1A	5.733	5.733	(0.436)	2313874	20.0000	19.6
	4 bromomethane	AIB1A	6.720	6.720	(0.511)	1458070	20.0000	18.7
	5 chloroethane	AIB1A	6.903	6.903	(0.525)	2944835	20.0000	18.3
	6 trichlorofluoromethane	AIB1A	7.436	7.436	(0.566)	2732514	20.0000	17.1(M)
	7 1,1,2 Trichlorotrifluoroethane	AIB1A	8.726	8.726	(0.664)	3621005	20.0000	16.7
	8 1,1-dichloroethene	AIB1A	8.726	8.726	(0.664)	3105109	20.0000	15.7(M)
	9 methylene chloride	AIB1A	9.733	9.733	(0.741)	3857734	20.0000	16.7(M)
	10 MTBE	FID2B	9.960	9.960	(0.663)	45882	20.0000	19.8
M	11 1,2-Dichloroethene (tot)	AIB1A				6658213	40.0000	34.0
	12 trans 1,2-dichloroethene	AIB1A	10.283	10.283	(0.783)	3422351	20.0000	17.4
	13 1,1-dichloroethane	AIB1A	11.153	11.153	(0.849)	3203383	20.0000	16.5
	14 cis-1,2-dichloroethene	AIB1A	12.433	12.433	(0.946)	3235862	20.0000	16.7
	15 chloroform	AIB1A	12.773	12.773	(0.972)	4467856	20.0000	17.9
*	16 Bromochloromethane	AIB1A	13.140	13.140	(1.000)	3310473	30.0000	
	17 1,1,1-trichloroethane	AIB1A	13.660	13.660	(1.040)	3671534	20.0000	18.6
	18 carbon tetrachloride	AIB1A	14.246	14.246	(1.084)	4085391	20.0000	17.6(M)
	19 1,2-dichloroethane	AIB1A	14.523	14.523	(1.105)	3530329	20.0000	18.2
	20 Benzene	FID2B	14.596	14.596	(0.971)	122533	20.0000	19.2
*	21 Fluorobenzene	FID2B	15.030	15.030	(1.000)	97497	30.0000	
	22 trichloroethene	AIB1A	15.996	15.996	(1.217)	3956807	20.0000	17.3

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
	23 1,2-dichloropropane	AIB1A	16.420	16.420	(1.250)	3200178	20.0000	17.9
	24 bromodichloromethane	AIB1A	17.056	17.056	(1.298)	3262168	20.0000	17.4
	25 cis-1,3-dichloropropene	AIB1A	18.616	18.616	(1.417)	2583038	20.0000	16.9
	26 Toluene	FID2B	19.773	19.773	(1.316)	111024	20.0000	18.5
	27 trans-1,3-dichloropropene	AIB1A	20.376	20.376	(1.551)	2657755	20.0000	18.7
	28 1,1,2-trichlorethane	AIB1A	21.020	21.020	(1.600)	3123215	20.0000	17.9
	29 tetrachloroethene	AIB1A	22.463	22.463	(1.710)	4010941	20.0000	17.6 (M)
	30 dibromochloromethane	AIB1A	23.323	23.323	(1.775)	2197282	20.0000	17.2
M	31 Xylene (tot)	FID2B				326032	60.0000	54.2
	32 chlorobenzene	AIB1A	25.936	25.936	(1.974)	1723949	20.0000	18.8
	33 Ethylbenzene	FID2B	26.140	26.140	(1.739)	103371	20.0000	18.0
	34 m,p-xylene	FID2B	26.460	26.460	(1.760)	231775	40.0000	35.8
	35 o-xylene	FID2B	28.223	28.223	(1.878)	94257	20.0000	18.4
	36 bromoform	AIB1A	29.660	29.660	(2.257)	1550507	20.0000	17.4
$	37 1,4-dichlorobutane	AIB1A	30.003	30.003	(2.283)	1921072	20.0000	19.0
	38 1,1,2,2-tetrachloroethane	AIB1A	30.300	30.300	(2.306)	2313913	20.0000	17.0
$	39 4-bromofluorobenzene	FID2B	30.590	30.590	(2.035)	109191	20.0000	19.5
	40 1,3-dichlorobenzene	AIB1A	34.696	34.696	(2.641)	1989669	20.0000	17.2 (M)
	41 1,4-dichlorobenzene	AIB1A	35.073	35.073	(2.669)	1801547	20.0000	15.1
	42 1,2-dichlorobenzene	AIB1A	36.363	36.363	(2.767)	1698626	20.0000	13.8 (M)

QC Flag Legend

M - Compound response manually integrated.

PEL Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vgc6.i
Lab File ID: 20PPB.D
Lab Smp Id: 20PPBSTD
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\REINHARD\ee\chem\vgc6.i\V610230Ps.b\8021S.m
Misc Info:

Calibration Date: 23-OCT-2001
Calibration Time: 16:13
Client Smp ID: 20PPBSTD
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	3651678	1825839	7303356	3310473	-9.34
21 Fluorobenzene	100103	50052	200206	97497	-2.60

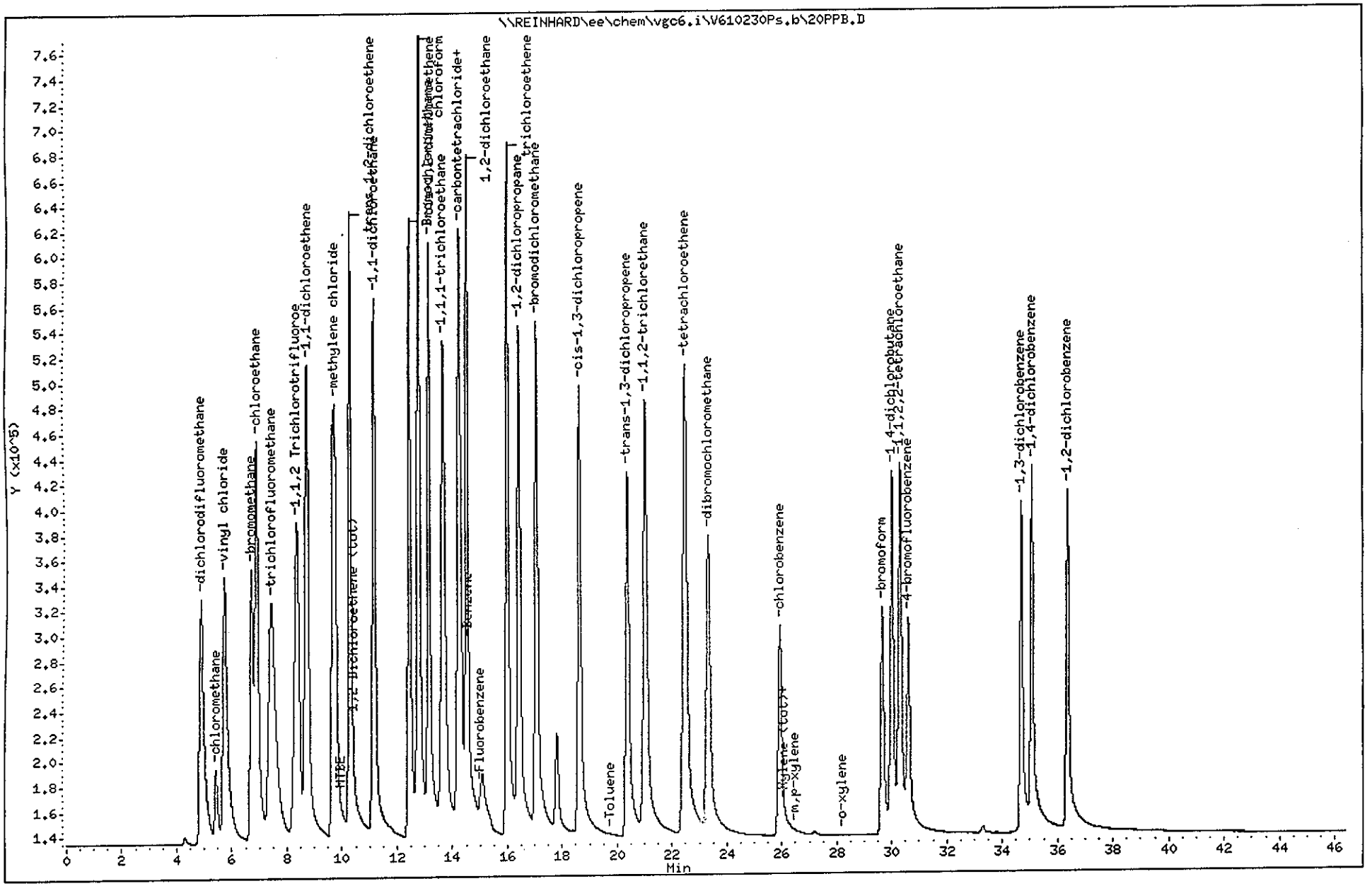
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	13.15	12.65	13.65	13.14	-0.05
21 Fluorobenzene	15.03	14.53	15.53	15.03	-0.02

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\REINHARD\ee\chem\vgc6.i\V610230Ps.b\20PPB.D
Date : 23-OCT-2001 17:08
Client ID: 20PPBSTD
Sample Info: 20PPBSTD
Purge Volume: 5.0
Column phase: RTx-502.2

Instrument: vgc6.i

Operator:
Column diameter: 0.53



PEL Laboratories

Data file : \\REINHARD\ee\chem\vgc6.i\V610230Ps.b\10PPB.D
Lab Smp Id: 10PPBSTD Client Smp ID: 10PPBSTD
Inj Date : 23-OCT-2001 18:02
Operator : Inst ID: vgc6.i
Smp Info : 10PPBSTD
Misc Info :
Comment :
Method : \\REINHARD\ee\chem\vgc6.i\V610230Ps.b\8021S.m
Meth Date : 01-Nov-2001 15:41 kavita Quant Type: ISTD
Cal Date : 23-OCT-2001 13:30 Cal File: 100PPB.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

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	1 dichlorodifluoromethane	AIB1A	4.886	4.886	(0.372)	1307049	10.0000	10.6
	2 chloromethane	AIB1A	5.420	5.420	(0.413)	192579	10.0000	11.6
	3 vinyl chloride	AIB1A	5.743	5.743	(0.437)	1318296	10.0000	11.3
	4 bromomethane	AIB1A	6.716	6.716	(0.512)	870919	10.0000	11.3
	5 chloroethane	AIB1A	6.893	6.893	(0.525)	1662791	10.0000	10.5
	6 trichlorofluoromethane	AIB1A	7.423	7.423	(0.565)	2020505	10.0000	12.8(M)
	7 1,1,2 Trichlorotrifluoroethane	AIB1A	8.726	8.726	(0.665)	2050041	10.0000	9.6
	8 1,1-dichloroethene	AIB1A	8.726	8.726	(0.665)	1956119	10.0000	10.0(M)
	9 methylene chloride	AIB1A	9.660	9.660	(0.736)	2463067	10.0000	10.8
	10 MTBE	FID2B	9.956	9.956	(0.663)	25071	10.0000	11.3
M	11 1,2-Dichloroethene (tot)	AIB1A				3886411	20.0000	20.2
	12 trans 1,2-dichloroethene	AIB1A	10.286	10.286	(0.783)	2007913	10.0000	10.3(M)
	13 1,1-dichloroethane	AIB1A	11.153	11.153	(0.849)	1915349	10.0000	10
	14 cis-1,2-dichloroethene	AIB1A	12.433	12.433	(0.947)	1878498	10.0000	9.8
	15 chloroform	AIB1A	12.760	12.760	(0.972)	2482211	10.0000	10.1
*	16 Bromochloromethane	AIB1A	13.130	13.130	(1.000)	3259481	30.0000	
	17 1,1,1-trichloroethane	AIB1A	13.656	13.656	(1.040)	2112007	10.0000	10.9
	18 carbon tetrachloride	AIB1A	14.246	14.246	(1.085)	2382050	10.0000	10.4(M)
	19 1,2-dichloroethane	AIB1A	14.516	14.516	(1.106)	2000682	10.0000	10.4
	20 Benzene	FID2B	14.590	14.590	(0.971)	66916	10.0000	11.0
*	21 Fluorobenzene	FID2B	15.020	15.020	(1.000)	92930	30.0000	
	22 trichloroethene	AIB1A	15.990	15.990	(1.218)	2200805	10.0000	9.8

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
	23 1,2-dichloropropane	AIB1A	16.416	16.416	(1.250)	1813810	10.0000	10.3
	24 bromodichloromethane	AIB1A	17.053	17.053	(1.299)	1893428	10.0000	10.2 (M)
	25 cis-1,3-dichloropropene	AIB1A	18.616	18.616	(1.418)	1406065	10.0000	9.3
	26 Toluene	FID2B	19.763	19.763	(1.316)	61271	10.0000	10.7
	27 trans-1,3-dichloropropene	AIB1A	20.360	20.360	(1.551)	1457152	10.0000	10.4
	28 1,1,2-trichlorethane	AIB1A	21.016	21.016	(1.601)	1703160	10.0000	9.9
	29 tetrachloroethene	AIB1A	22.470	22.470	(1.711)	2287594	10.0000	10.2 (M)
	30 dibromochloromethane	AIB1A	23.316	23.316	(1.776)	1232528	10.0000	9.8
M	31 Xylene (tot)	FID2B				179716	30.0000	31.4
	32 chlorobenzene	AIB1A	25.920	25.920	(1.974)	984667	10.0000	10.9
	33 Ethylbenzene	FID2B	26.130	26.130	(1.740)	56550	10.0000	10.3
	34 m,p-xylene	FID2B	26.450	26.450	(1.761)	127864	20.0000	20.7
	35 o-xylene	FID2B	28.210	28.210	(1.878)	51852	10.0000	10.6
	36 bromoform	AIB1A	29.643	29.643	(2.258)	900562	10.0000	10.2
$	37 1,4-dichlorobutane	AIB1A	29.990	29.990	(2.284)	1016312	10.0000	10.2
	38 1,1,2,2-tetrachloroethane	AIB1A	30.296	30.296	(2.307)	1337404	10.0000	10
$	39 4-bromofluorobenzene	FID2B	30.576	30.576	(2.036)	54181	10.0000	10.2
	40 1,3-dichlorobenzene	AIB1A	34.683	34.683	(2.642)	1208226	10.0000	10.6 (M)
	41 1,4-dichlorobenzene	AIB1A	35.066	35.066	(2.671)	1444375	10.0000	12.3 (M)
	42 1,2-dichlorobenzene	AIB1A	36.350	36.350	(2.768)	1175976	10.0000	9.7 (M)

QC Flag Legend

M - Compound response manually integrated.

PEL Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vgc6.i
Lab File ID: 10PPB.D
Lab Smp Id: 10PPBSTD
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\REINHARD\ee\chem\vgc6.i\V610230Ps.b\8021S.m
Misc Info:

Calibration Date: 23-OCT-2001
Calibration Time: 16:13
Client Smp ID: 10PPBSTD
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	3651678	1825839	7303356	3259481	-10.74
21 Fluorobenzene	100103	50052	200206	92930	-7.17

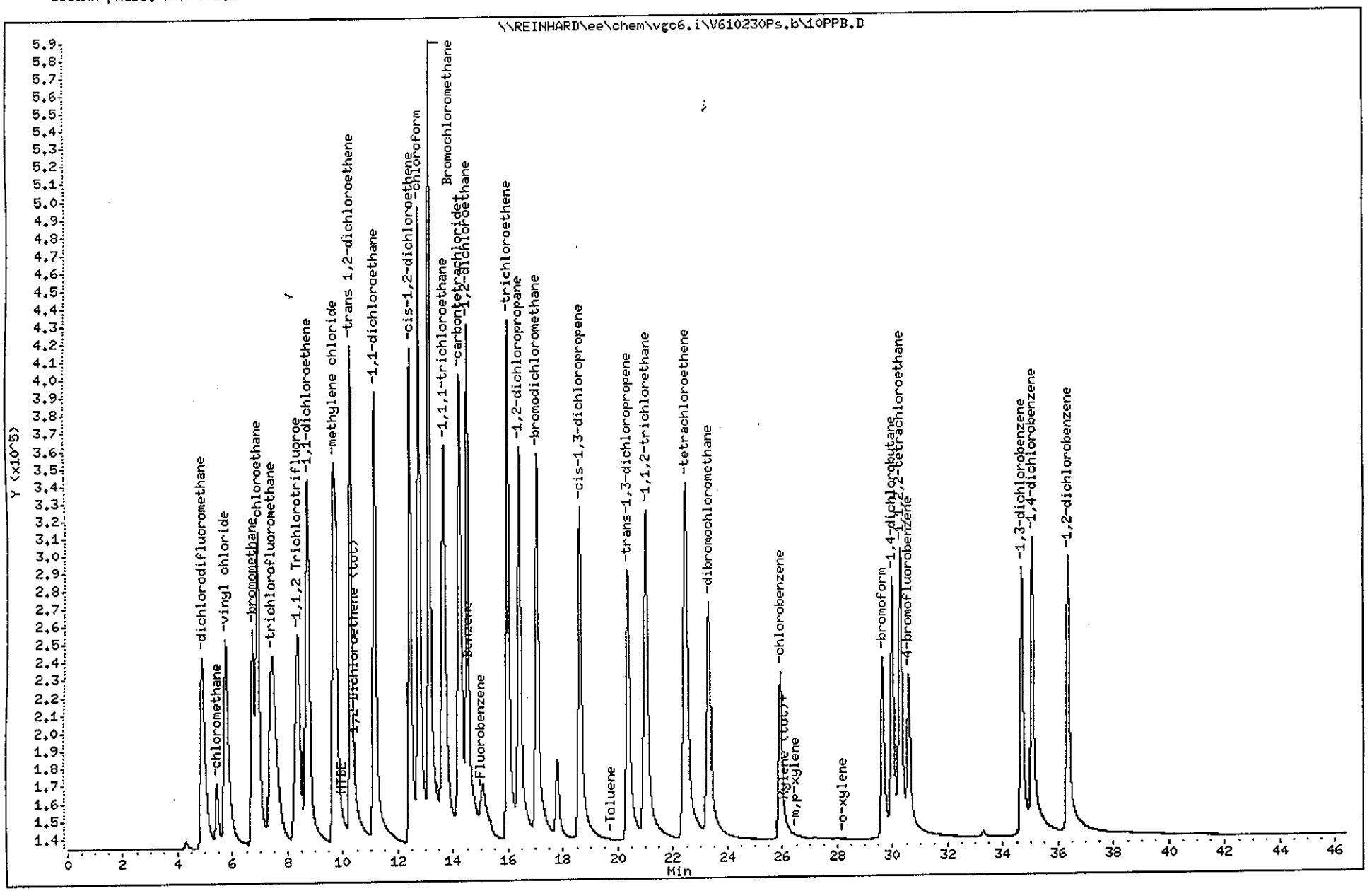
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	13.15	12.65	13.65	13.13	-0.13
21 Fluorobenzene	15.03	14.53	15.53	15.02	-0.09

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\REINHARD\ee\chem\vgc6.i\V610230Ps.b\10PPB.D
Date : 23-OCT-2001 18:02
Client ID: 10PPBSTD
Sample Info: 10PPBSTD
Purge Volume: 5.0
Column phase: RTx-502.2

Instrument: vgc6.i

Operator:
Column diameter: 0.53



PEL Laboratories

Data file : \\REINHARD\ee\chem\vgc6.i\V610230Ps.b\5PPB.D
Lab Smp Id: 5PPBSTD Client Smp ID: 5PPBSTD
Inj Date : 23-OCT-2001 18:56
Operator : Inst ID: vgc6.i
Smp Info : 5PPBSTD
Misc Info :
Comment :
Method : \\REINHARD\ee\chem\vgc6.i\V610230Ps.b\8021S.m
Meth Date : 01-Nov-2001 15:41 kavita Quant Type: ISTD
Cal Date : 23-OCT-2001 13:30 Cal File: 100PPB.D
Als bottle: 10 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

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	1 dichlorodifluoromethane	AIB1A	4.876	4.876	(0.372)	710184	5.00000	6.3
	2 chloromethane	AIB1A	5.410	5.410	(0.412)	102424	5.00000	6.8
	3 vinyl chloride	AIB1A	5.726	5.726	(0.436)	653903	5.00000	6.2
	4 bromomethane	AIB1A	6.710	6.710	(0.511)	426164	5.00000	6.1
	5 chloroethane	AIB1A	6.890	6.890	(0.525)	866796	5.00000	6.0
	6 trichlorofluoromethane	AIB1A	7.416	7.416	(0.565)	864452	5.00000	6.0(M)
	7 1,1,2 Trichlorotrifluoroethane	AIB1A	8.703	8.703	(0.663)	1196121	5.00000	6.1
	8 1,1-dichloroethene	AIB1A	8.703	8.703	(0.663)	1018095	5.00000	5.7(M)
	9 methylene chloride	AIB1A	9.646	9.646	(0.735)	1268397	5.00000	6.1
	10 MTBE	FID2B	9.936	9.936	(0.662)	12092	5.00000	5.5
M	11 1,2-Dichloroethene (tot)	AIB1A				1804539	10.0000	10.3
	12 trans 1,2-dichloroethene	AIB1A	10.266	10.266	(0.782)	842915	5.00000	4.8(M)
	13 1,1-dichloroethane	AIB1A	11.143	11.143	(0.849)	912795	5.00000	5.2
	14 cis-1,2-dichloroethene	AIB1A	12.413	12.413	(0.946)	961624	5.00000	5.5
	15 chloroform	AIB1A	12.756	12.756	(0.972)	1228119	5.00000	5.5
*	16 Bromochloromethane	AIB1A	13.126	13.126	(1.000)	2971678	30.0000	
	17 1,1,1-trichloroethane	AIB1A	13.633	13.633	(1.039)	1098602	5.00000	6.2
	18 carbon tetrachloride	AIB1A	14.223	14.223	(1.084)	1122823	5.00000	5.4(M)
	19 1,2-dichloroethane	AIB1A	14.500	14.500	(1.105)	997811	5.00000	5.7
	20 Benzene	FID2B	14.576	14.576	(0.971)	33266	5.00000	5.5
*	21 Fluorobenzene	FID2B	15.006	15.006	(1.000)	92211	30.0000	
	22 trichloroethene	AIB1A	15.966	15.966	(1.216)	1117942	5.00000	5.4

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
	23 1,2-dichloropropane	AIB1A	16.396	16.396	(1.249)	941024	5.00000	5.8
	24 bromodichloromethane	AIB1A	17.033	17.033	(1.298)	959996	5.00000	5.7
	25 cis-1,3-dichloropropene	AIB1A	18.593	18.593	(1.416)	773186	5.00000	5.6(M)
	26 Toluene	FID2B	19.736	19.736	(1.315)	29856	5.00000	5.2
	27 trans-1,3-dichloropropene	AIB1A	20.333	20.333	(1.549)	752069	5.00000	5.9
	28 1,1,2-trichlorethane	AIB1A	20.980	20.980	(1.598)	809247	5.00000	5.2
	29 tetrachloroethene	AIB1A	22.433	22.433	(1.709)	1142529	5.00000	5.6(M)
	30 dibromochloromethane	AIB1A	23.276	23.276	(1.773)	599533	5.00000	5.2
M	31 Xylene (tot)	FID2B				89576	15.0000	15.8
	32 chlorobenzene	AIB1A	25.896	25.896	(1.973)	475437	5.00000	5.8(M)
	33 Ethylbenzene	FID2B	26.100	26.100	(1.739)	28300	5.00000	5.2
	34 m,p-xylene	FID2B	26.423	26.423	(1.761)	63740	10.0000	10.4
	35 o-xylene	FID2B	28.183	28.183	(1.878)	25836	5.00000	5.3
	36 bromoform	AIB1A	29.623	29.623	(2.257)	474181	5.00000	5.9
$	37 1,4-dichlorobutane	AIB1A	29.966	29.966	(2.283)	480916	5.00000	5.3
	38 1,1,2,2-tetrachloroethane	AIB1A	30.270	30.270	(2.306)	715008	5.00000	5.8
$	39 4-bromofluorobenzene	FID2B	30.556	30.556	(2.036)	23351	5.00000	4.4
	40 1,3-dichlorobenzene	AIB1A	34.663	34.663	(2.641)	523045	5.00000	5.0(M)
	41 1,4-dichlorobenzene	AIB1A	35.043	35.043	(2.670)	546806	5.00000	5.1(M)
	42 1,2-dichlorobenzene	AIB1A	36.323	36.323	(2.767)	661757	5.00000	6.0(M)

QC Flag Legend

M - Compound response manually integrated.

PEL Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vgc6.i
Lab File ID: 5PPB.D
Lab Smp Id: 5PPBSTD
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\REINHARD\ee\chem\vgc6.i\V610230Ps.b\8021S.m
Misc Info:

Calibration Date: 23-OCT-2001
Calibration Time: 16:13
Client Smp ID: 5PPBSTD
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	3651678	1825839	7303356	2971678	-18.62
21 Fluorobenzene	100103	50052	200206	92211	-7.88

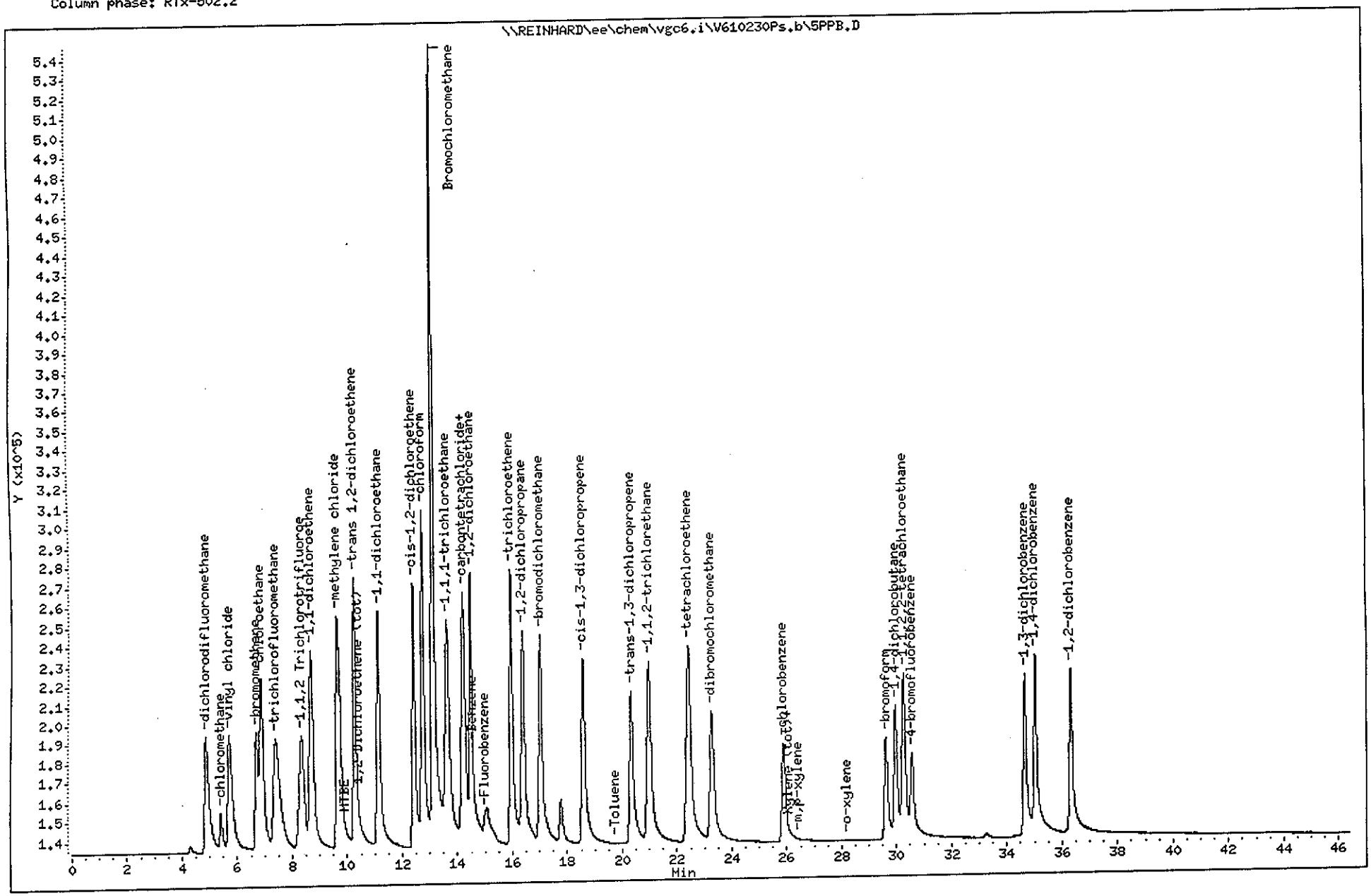
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	13.15	12.65	13.65	13.13	-0.15
21 Fluorobenzene	15.03	14.53	15.53	15.01	-0.18

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\REINHARD\ee\chem\vgc6.i\V610230Ps.b\5PPB.D
Date : 23-OCT-2001 18:56
Client ID: 5PPBSTD
Sample Info: 5PPBSTD
Purge Volume: 5.0
Column phase: RTx-502.2

Instrument: vgc6.i

Operator:
Column diameter: 0.53



PEL Laboratories

Data file : \\REINHARD\ee\chem\vgc6.i\V610230Ps.b\2PPB.D
Lab Smp Id: 2PPBSTD Client Smp ID: 2PPBSTD
Inj Date : 23-OCT-2001 19:49
Operator : Inst ID: vgc6.i
Smp Info : 2PPBSTD
Misc Info :
Comment :
Method : \\REINHARD\ee\chem\vgc6.i\V610230Ps.b\8021S.m
Meth Date : 01-Nov-2001 15:41 kavita Quant Type: ISTD
Cal Date : 23-OCT-2001 13:30 Cal File: 100PPB.D
Als bottle: 11 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

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	1 dichlorodifluoromethane	AIB1A	4.873	4.873	(0.372)	218815	2.00000	2.1(M)
	2 chloromethane	AIB1A	5.406	5.406	(0.413)	32450	2.00000	2.3
	3 vinyl chloride	AIB1A	5.710	5.710	(0.436)	201467	2.00000	2.0(M)
	4 bromomethane	AIB1A	6.706	6.706	(0.512)	141128	2.00000	2.2
	5 chloroethane	AIB1A	6.886	6.886	(0.525)	288290	2.00000	2.2
	6 trichlorofluoromethane	AIB1A	7.390	7.390	(0.564)	266852	2.00000	2.0(M)
	7 1,1,2 Trichlorotrifluoroethane	AIB1A	8.330	8.330	(0.636)	344890	2.00000	1.9(M)
	8 1,1-dichloroethene	AIB1A	8.690	8.690	(0.663)	317175	2.00000	1.9(M)
	9 methylene chloride	AIB1A	9.633	9.633	(0.735)	479937	2.00000	2.5(M)
	10 MTBE	FID2B	9.923	9.923	(0.662)	3482	2.00000	1.6
M	11 1,2-Dichloroethene (tot)	AIB1A				640023	4.00000	4.0
	12 trans 1,2-dichloroethene	AIB1A	10.253	10.253	(0.782)	307666	2.00000	1.9(M)
	13 1,1-dichloroethane	AIB1A	11.126	11.126	(0.849)	368226	2.00000	2.3(M)
	14 cis-1,2-dichloroethene	AIB1A	12.400	12.400	(0.946)	332357	2.00000	2.1
	15 chloroform	AIB1A	12.733	12.733	(0.972)	440021	2.00000	2.1
*	16 Bromochloromethane	AIB1A	13.106	13.106	(1.000)	2742393	30.0000	
	17 1,1,1-trichloroethane	AIB1A	13.620	13.620	(1.039)	302869	2.00000	1.8(M)
	18 carbon tetrachloride	AIB1A	14.210	14.210	(1.084)	382955	2.00000	2.0(M)
	19 1,2-dichloroethane	AIB1A	14.483	14.483	(1.105)	356708	2.00000	2.2
	20 Benzene	FID2B	14.556	14.556	(0.971)	10166	2.00000	1.8
*	21 Fluorobenzene	FID2B	14.990	14.990	(1.000)	88297	30.0000	
	22 trichloroethene	AIB1A	15.953	15.953	(1.217)	401831	2.00000	2.1

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
	23 1,2-dichloropropane	AIB1A	16.380	16.380	(1.250)	333596	2.00000	2.2
	24 bromodichloromethane	AIB1A	17.016	17.016	(1.298)	330737	2.00000	2.1
	25 cis-1,3-dichloropropene	AIB1A	18.576	18.576	(1.417)	292508	2.00000	2.3(M)
	26 Toluene	FID2B	19.710	19.710	(1.315)	9329	2.00000	1.7
	27 trans-1,3-dichloropropene	AIB1A	20.316	20.316	(1.550)	235367	2.00000	2.0
	28 1,1,2-trichlorethane	AIB1A	20.963	20.963	(1.599)	325790	2.00000	2.2(M)
	29 tetrachloroethene	AIB1A	22.410	22.410	(1.710)	405118	2.00000	2.2(M)
	30 dibromochloromethane	AIB1A	23.256	23.256	(1.774)	240439	2.00000	2.3(M)
M	31 Xylene (tot)	FID2B				29575	6.00000	5.4
	32 chlorobenzene	AIB1A	25.876	25.876	(1.974)	187327	2.00000	2.5(M)
	33 Ethylbenzene	FID2B	26.083	26.083	(1.740)	8701	2.00000	1.7
	34 m,p-xylene	FID2B	26.403	26.403	(1.761)	21712	4.00000	3.7
	35 o-xylene	FID2B	28.170	28.170	(1.879)	7863	2.00000	1.7
	36 bromoform	AIB1A	29.603	29.603	(2.259)	154191	2.00000	2.1
$	37 1,4-dichlorobutane	AIB1A	29.956	29.956	(2.286)	234118	2.00000	2.8(M)
	38 1,1,2,2-tetrachloroethane	AIB1A	30.250	30.250	(2.308)	259625	2.00000	2.3
$	39 4-bromofluorobenzene	FID2B	30.540	30.540	(2.037)	11790	2.00000	2.3
	40 1,3-dichlorobenzene	AIB1A	34.643	34.643	(2.643)	230790	2.00000	2.4(M)
	41 1,4-dichlorobenzene	AIB1A	35.023	35.023	(2.672)	268542	2.00000	2.7(M)
	42 1,2-dichlorobenzene	AIB1A	36.313	36.313	(2.771)	289754	2.00000	2.8(M)

QC Flag Legend

M - Compound response manually integrated.

PEL Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vgc6.i
Lab File ID: 2PPB.D
Lab Smp Id: 2PPBSTD
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\REINHARD\ee\chem\vgc6.i\V610230Ps.b\8021S.m
Misc Info:

Calibration Date: 23-OCT-2001
Calibration Time: 16:13
Client Smp ID: 2PPBSTD
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	3651678	1825839	7303356	2742393	-24.90
21 Fluorobenzene	100103	50052	200206	88297	-11.79

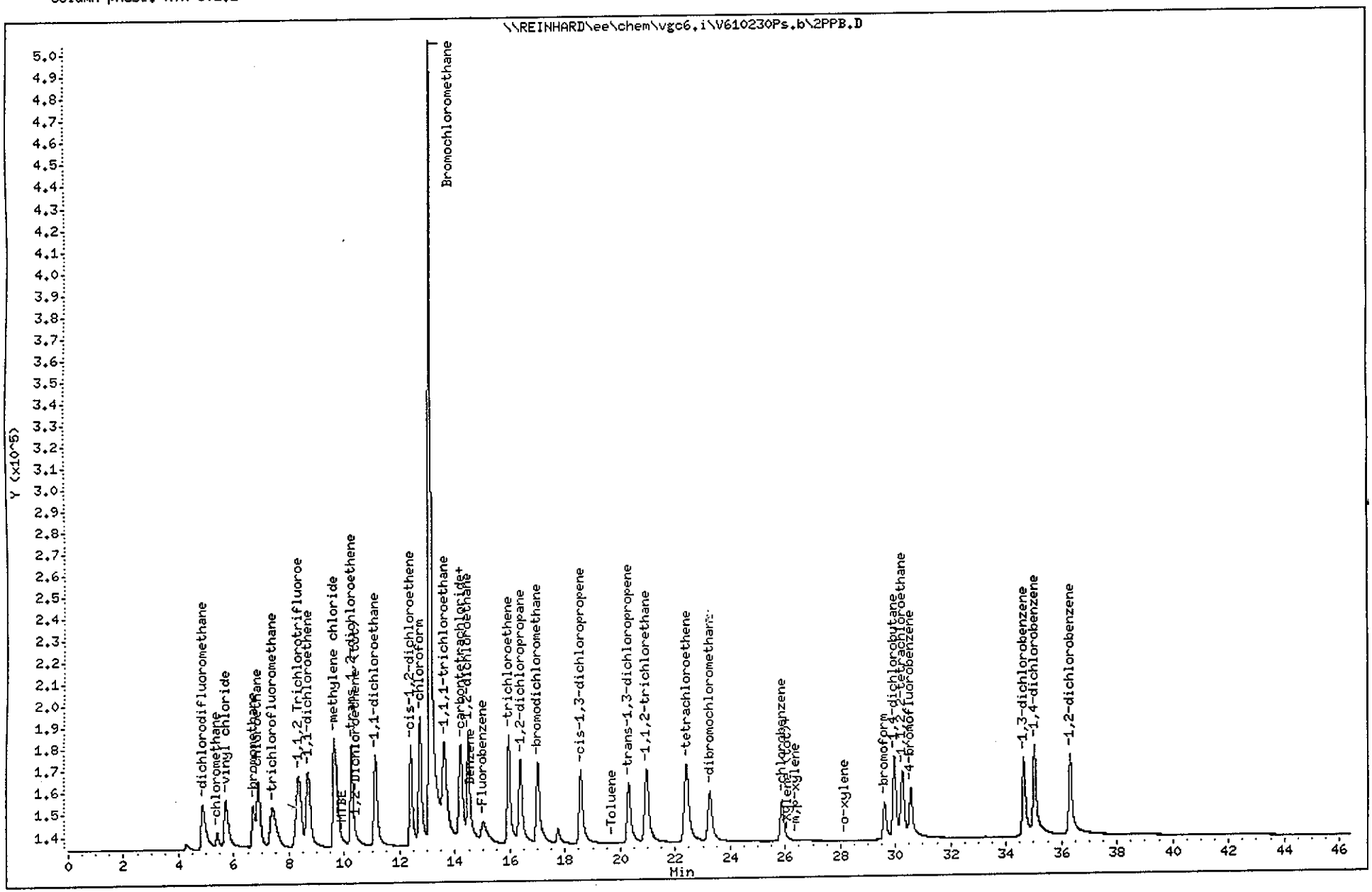
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	13.15	12.65	13.65	13.11	-0.30
21 Fluorobenzene	15.03	14.53	15.53	14.99	-0.29

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\REINHARD\ee\chem\vgc6.i\V610230Ps.b\2PPB.D
Date : 23-OCT-2001 19:49
Client ID: 2PPBSTD
Sample Info: 2PPBSTD
Purge Volume: 5.0
Column phase: RTx-502.2

Instrument: vgc6.i

Operator:
Column diameter: 0.53



PEL Laboratories

Data file : \\REINHARD\ee\chem\vgc6.i\V610230Ps.b\1PPB.D
Lab Smp Id: 1PPBSTD Client Smp ID: 1PPBSTD
Inj Date : 23-OCT-2001 21:36
Operator : Inst ID: vgc6.i
Smp Info : 1PPBSTD
Misc Info :
Comment :
Method : \\REINHARD\ee\chem\vgc6.i\V610230Ps.b\8021S.m
Meth Date : 01-Nov-2001 15:42 kavita Quant Type: ISTD
Cal Date : 23-OCT-2001 13:30 Cal File: 100PPB.D
Als bottle: 13 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

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	1 dichlorodifluoromethane	AIB1A	4.870	4.870	(0.372)	110438	1.00000	1.0
	2 chloromethane	AIB1A	5.390	5.390	(0.412)	12001	1.00000	0.85(a)
	3 vinyl chloride	AIB1A	5.693	5.693	(0.435)	88153	1.00000	0.89(aM)
	4 bromomethane	AIB1A	6.690	6.690	(0.511)	62231	1.00000	0.95(a)
	5 chloroethane	AIB1A	6.876	6.876	(0.525)	146033	1.00000	1.1
	6 trichlorofluoromethane	AIB1A	7.376	7.376	(0.563)	136063	1.00000	1.0(M)
	7 1,1,2 Trichlorotrifluoroethane	AIB1A	8.676	8.676	(0.663)	214718	1.00000	1.2
	8 1,1-dichloroethene	AIB1A	8.676	8.676	(0.663)	184757	1.00000	1.1(M)
	9 methylene chloride	AIB1A	9.623	9.623	(0.735)	453343	1.00000	2.3(M)
	10 MTBE	FID2B	9.913	9.913	(0.662)	2029	1.00000	0.93(aM)
M	11 1,2-Dichloroethene (tot)	AIB1A				431300	2.00000	2.6
	12 trans 1,2-dichloroethene	AIB1A	10.240	10.240	(0.782)	220509	1.00000	1.3(M)
	13 1,1-dichloroethane	AIB1A	11.110	11.110	(0.849)	229259	1.00000	1.4(M)
	14 cis-1,2-dichloroethene	AIB1A	12.390	12.390	(0.946)	210791	1.00000	1.3
	15 chloroform	AIB1A	12.723	12.723	(0.972)	271748	1.00000	1.3(M)
*	16 Bromochloromethane	AIB1A	13.093	13.093	(1.000)	2786588	30.0000	
	17 1,1,1-trichloroethane	AIB1A	13.603	13.603	(1.039)	170618	1.00000	1.0(M)
	18 carbon tetrachloride	AIB1A	14.200	14.200	(1.085)	221961	1.00000	1.1(M)
	19 1,2-dichloroethane	AIB1A	14.473	14.473	(1.105)	176859	1.00000	1.1(M)
	20 Benzene	FID2B	14.543	14.543	(0.971)	6156	1.00000	1.0
*	21 Fluorobenzene	FID2B	14.976	14.976	(1.000)	91688	30.0000	
	22 trichloroethene	AIB1A	15.940	15.940	(1.217)	238531	1.00000	1.2(M)

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
	23 1,2-dichloropropane	AIB1A	16.366	16.366	(1.250)	178875	1.00000	1.2 (M)
	24 bromodichloromethane	AIB1A	17.003	17.003	(1.299)	191628	1.00000	1.2 (M)
	25 cis-1,3-dichloropropene	AIB1A	18.556	18.556	(1.417)	179646	1.00000	1.4 (M)
	26 Toluene	FID2B	19.706	19.706	(1.316)	7493	1.00000	1.3
	27 trans-1,3-dichloropropene	AIB1A	20.293	20.293	(1.550)	149209	1.00000	1.2
	28 1,1,2-trichlorethane	AIB1A	20.950	20.950	(1.600)	201630	1.00000	1.4 (M)
	29 tetrachloroethene	AIB1A	22.383	22.383	(1.710)	248688	1.00000	1.3 (M)
	30 dibromochloromethane	AIB1A	23.236	23.236	(1.775)	136330	1.00000	1.3 (M)
M	31 Xylene (tot)	FID2B				21507	3.00000	3.8
	32 chlorobenzene	AIB1A	25.863	25.863	(1.975)	97334	1.00000	1.3 (M)
	33 Ethylbenzene	FID2B	26.063	26.063	(1.740)	6775	1.00000	1.2
	34 m,p-xylene	FID2B	26.393	26.393	(1.762)	15771	2.00000	2.6
	35 o-xylene	FID2B	28.153	28.153	(1.880)	5736	1.00000	1.2
	36 bromoform	AIB1A	29.590	29.590	(2.260)	102286	1.00000	1.4
$	37 1,4-dichlorobutane	AIB1A	29.940	29.940	(2.287)	112470	1.00000	1.3 (M)
	38 1,1,2,2-tetrachloroethane	AIB1A	30.233	30.233	(2.309)	151481	1.00000	1.3 (M)
$	39 4-bromofluorobenzene	FID2B	30.526	30.526	(2.038)	6166	1.00000	1.2 (M)
	40 1,3-dichlorobenzene	AIB1A	34.636	34.636	(2.645)	130443	1.00000	1.3 (M)
	41 1,4-dichlorobenzene	AIB1A	35.010	35.010	(2.674)	130639	1.00000	1.3 (M)
	42 1,2-dichlorobenzene	AIB1A	36.303	36.303	(2.773)	150635	1.00000	1.4 (M)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

PEL Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vgc6.i
Lab File ID: 1PPB.D
Lab Smp Id: 1PPBSTD
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\REINHARD\ee\chem\vgc6.i\V610230Ps.b\8021S.m
Misc Info:

Calibration Date: 23-OCT-2001
Calibration Time: 16:13
Client Smp ID: 1PPBSTD
Level: LOW
Sample Type: WATER

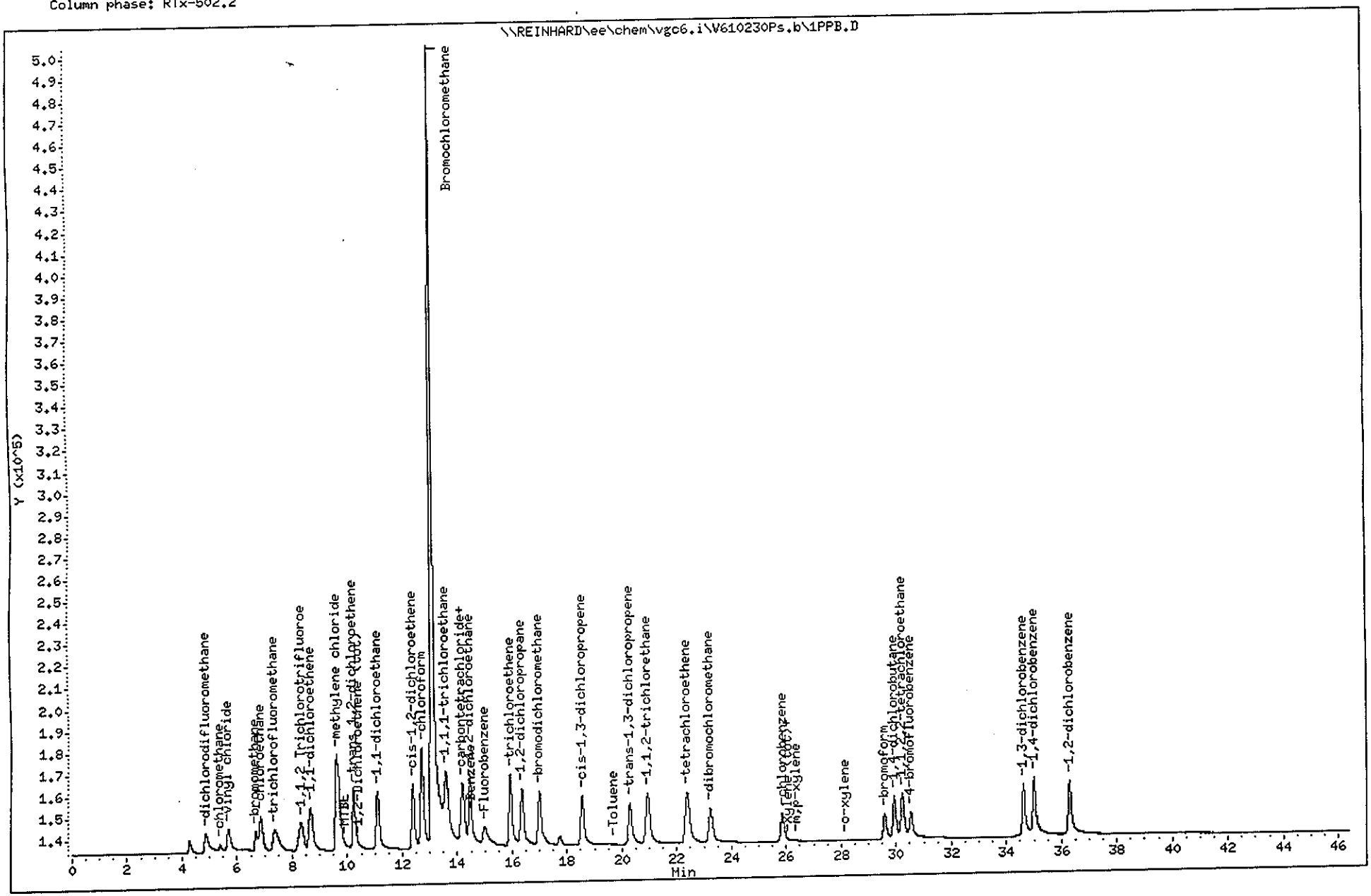
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	3651678	1825839	7303356	2786588	-23.69
21 Fluorobenzene	100103	50052	200206	91688	-8.41

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	13.15	12.65	13.65	13.09	-0.41
21 Fluorobenzene	15.03	14.53	15.53	14.98	-0.38

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\REINHARD\ee\chem\vgc6.i\V610230Ps.b\1PPB.D
Date : 23-OCT-2001 21:36
Client ID: 1PPBSTD
Sample Info: 1PPBSTD
Purge Volume: 5.0
Column phase: RTx-502.2

Instrument: vgc6.i
Operator:
Column diameter: 0.53



PEL Laboratories

Data file : \\REINHARD\ee\chem\vgc6.i\V610230Ps.b\500PPT.D
Lab Smp Id: 500PPTSTD Client Smp ID: 500PPTSTD
Inj Date : 23-OCT-2001 23:22
Operator : Inst ID: vgc6.i
Smp Info : 500PPTSTD
Misc Info :
Comment :
Method : \\REINHARD\ee\chem\vgc6.i\V610230Ps.b\8021S.m
Meth Date : 01-Nov-2001 15:42 kavita Quant Type: ISTD
Cal Date : 23-OCT-2001 23:22 Cal File: 500PPT.D
Als bottle: 15 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

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	1 dichlorodifluoromethane	AIB1A	4.866	4.866	(0.372)	48178	0.50000	0.49 (aM)
	2 chloromethane	AIB1A	5.380	5.380	(0.411)	5842	0.50000	0.44 (a)
	3 vinyl chloride	AIB1A	5.683	5.683	(0.434)	39085	0.50000	0.42 (aM)
	4 bromomethane	AIB1A	6.680	6.680	(0.510)	28012	0.50000	0.45 (a)
	5 chloroethane	AIB1A	6.870	6.870	(0.525)	70264	0.50000	0.55 (a)
	6 trichlorofluoromethane	AIB1A	7.366	7.366	(0.563)	65973	0.50000	0.52 (aM)
	7 1,1,2 Trichlorotrifluoroethane	AIB1A	8.316	8.316	(0.636)	63164	0.50000	0.37 (M)
	8 1,1-dichloroethene	AIB1A	8.670	8.670	(0.662)	101292	0.50000	0.65 (aM)
	9 methylene chloride	AIB1A	9.616	9.616	(0.735)	331637	0.50000	1.8 (aM)
	10 MTBE	FID2B	9.930	9.930	(0.664)	1185	0.50000	0.56 (aM)
M	11 1,2-Dichloroethene (tot)	AIB1A				199685	1.00000	1.3
	12 trans 1,2-dichloroethene	AIB1A	10.233	10.233	(0.782)	99958	0.50000	0.64 (aM)
	13 1,1-dichloroethane	AIB1A	11.096	11.096	(0.848)	113611	0.50000	0.74 (aM)
	14 cis-1,2-dichloroethene	AIB1A	12.376	12.376	(0.946)	99727	0.50000	0.65 (aM)
	15 chloroform	AIB1A	12.710	12.710	(0.971)	152643	0.50000	0.77 (aM)
*	16 Bromochloromethane	AIB1A	13.086	13.086	(1.000)	2622585	30.0000	
	17 1,1,1-trichloroethane	AIB1A	13.583	13.583	(1.038)	174904	0.50000	1.1
	18 carbon tetrachloride	AIB1A	14.180	14.180	(1.084)	116101	0.50000	0.63 (aM)
	19 1,2-dichloroethane	AIB1A	14.463	14.463	(1.105)	89208	0.50000	0.58 (aM)
	20 Benzene	FID2B	14.536	14.536	(0.971)	3059	0.50000	0.52 (a)
*	21 Fluorobenzene	FID2B	14.963	14.963	(1.000)	89452	30.0000	
	22 trichloroethene	AIB1A	15.923	15.923	(1.217)	117803	0.50000	0.65 (aM)

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
	23 1,2-dichloropropane	AIB1A	16.350	16.350	(1.249)	76113	0.50000	0.54 (aM)
	24 bromodichloromethane	AIB1A	16.986	16.986	(1.298)	93661	0.50000	0.63 (aM)
	25 cis-1,3-dichloropropene	AIB1A	18.543	18.543	(1.417)	88183	0.50000	0.73 (aM)
	26 Toluene	FID2B	19.670	19.670	(1.315)	4062	0.50000	0.74 (a)
	27 trans-1,3-dichloropropene	AIB1A	20.273	20.273	(1.549)	83061	0.50000	0.74 (aM)
	28 1,1,2-trichlorethane	AIB1A	20.920	20.920	(1.599)	109911	0.50000	0.79 (aM)
	29 tetrachloroethene	AIB1A	22.360	22.360	(1.709)	120433	0.50000	0.67 (aM)
	30 dibromochloromethane	AIB1A	23.213	23.213	(1.774)	59263	0.50000	0.58 (aM)
M	31 Xylene (tot)	FID2B				9967	1.50000	1.8 (a)
	32 chlorobenzene	AIB1A	25.833	25.833	(1.974)	49560	0.50000	0.68 (aM)
	33 Ethylbenzene	FID2B	26.043	26.043	(1.740)	3295	0.50000	0.62 (a)
	34 m,p-xylene	FID2B	26.366	26.366	(1.762)	7089	1.00000	1.2 (aM)
	35 o-xylene	FID2B	28.133	28.133	(1.880)	2878	0.50000	0.61 (aM)
	36 bromoform	AIB1A	29.566	29.566	(2.259)	37982	0.50000	0.54 (aM)
$	37 1,4-dichlorobutane	AIB1A	29.923	29.923	(2.287)	87664	0.50000	1.1
	38 1,1,2,2-tetrachloroethane	AIB1A	30.206	30.206	(2.308)	81442	0.50000	0.76 (aM)
$	39 4-bromofluorobenzene	FID2B	30.506	30.506	(2.039)	2811	0.50000	0.55 (aM)
	40 1,3-dichlorobenzene	AIB1A	34.616	34.616	(2.645)	91131	0.50000	1.00 (M)
	42 1,2-dichlorobenzene	AIB1A	36.276	36.276	(2.772)	105577	0.50000	1.1 (M)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

PEL Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vgc6.i
Lab File ID: 500PPT.D
Lab Smp Id: 500PPTSTD
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\REINHARD\ee\chem\vgc6.i\V610230Ps.b\8021S.m
Misc Info:

Calibration Date: 23-OCT-2001
Calibration Time: 16:13
Client Smp ID: 500PPTSTD
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	3651678	1825839	7303356	2622585	-28.18
21 Fluorobenzene	100103	50052	200206	89452	-10.64

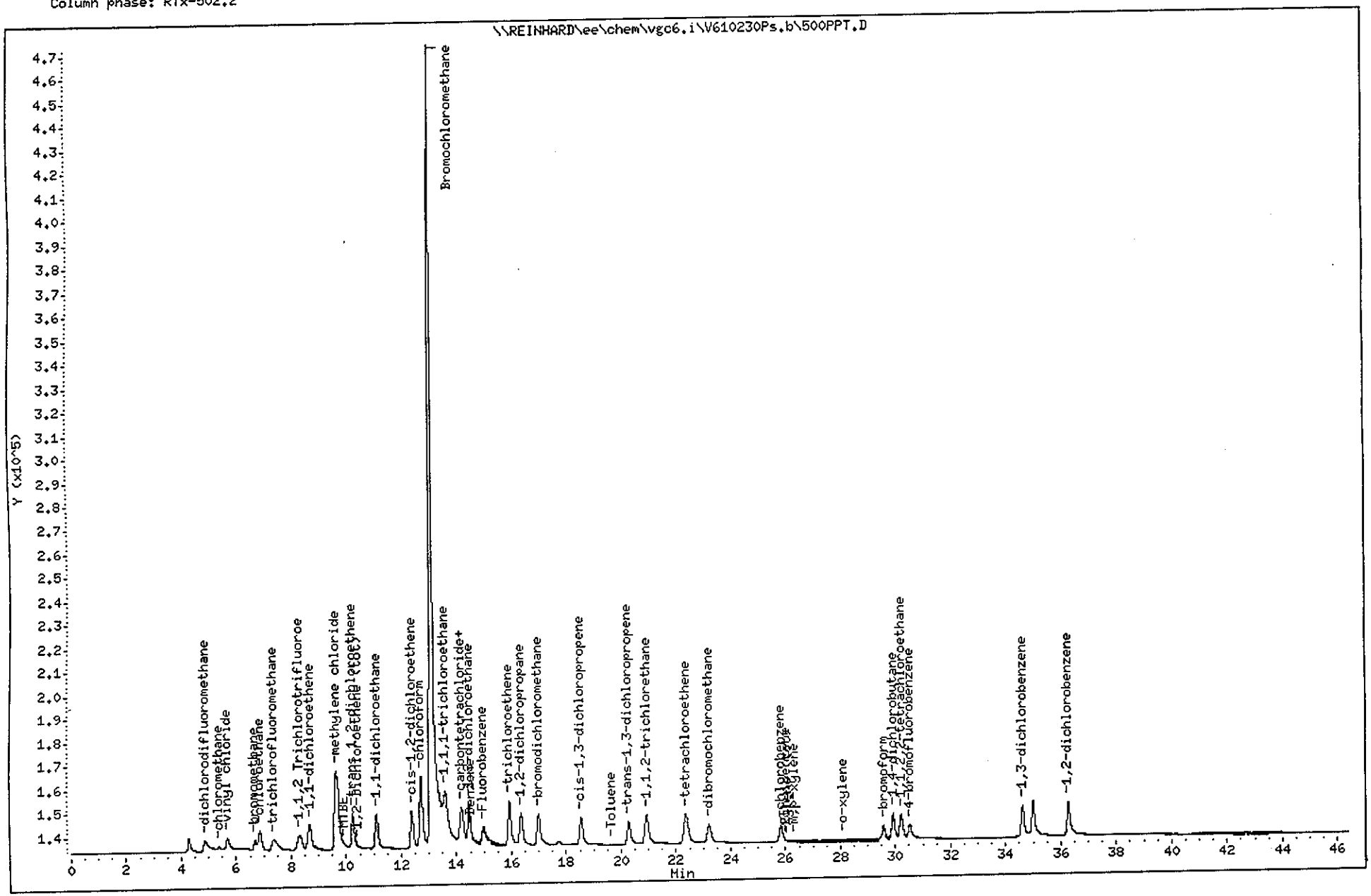
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	13.15	12.65	13.65	13.09	-0.46
21 Fluorobenzene	15.03	14.53	15.53	14.96	-0.47

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\REINHARD\ee\chem\vgc6.i\V610230Ps.b\500PPT.D
Date : 23-OCT-2001 23:22
Client ID: 500PPTSTD
Sample Info: 500PPTSTD
Purge Volume: 5.0
Column phase: RTx-502.2

Instrument: vgc6.i

Operator:
Column diameter: 0.53



PEL Laboratories

Data file : \\REINHARD\ee\chem\vgc5.i\V5102501.b\CCV51.D
Lab Smp Id: 1025CCV51 Client Smp ID: 1025CCV51
Inj Date : 25-OCT-2001 08:24
Operator : Inst ID: vgc5.i
Smp Info : 1025CCV51
Misc Info :
Comment :
Method : \\REINHARD\ee\chem\vgc5.i\V5102501.b\8021.m
Meth Date : 30-Oct-2001 15:09 tscott Quant Type: ISTD
Cal Date : 23-OCT-2001 01:55 Cal File: 100PPB.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: cto062.sub
Target Version: 4.04
Processing Host: REINHARD

Concentration Formula: Amt * DF

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	10 MTBE	FID2B	9.396	9.423	(0.653)	187232	33.2167	33.2
	20 Benzene	FID2B	13.956	13.986	(0.970)	492196	32.4669	32.5
*	21 Fluorobenzene	FID2B	14.390	14.416	(1.000)	274343	30.0000	
	26 Toluene	FID2B	18.856	18.900	(1.310)	460570	31.5158	31.5
	32 Ethylbenzene	FID2B	25.000	25.040	(1.737)	426577	30.5850	30.6
	33 m,p-xylene	FID2B	25.293	25.336	(1.758)	958280	60.3274	60.3
	35 o-xylene	FID2B	26.880	26.920	(1.868)	390992	31.9187	31.9
$	39 4-bromofluorobenzene	FID2B	28.913	28.953	(2.009)	445753	27.5564	27.6

PEL Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vgc5.i
Lab File ID: CCV51.D
Lab Smp Id: 1025CCV51
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\REINHARD\ee\chem\vgc5.i\V5102501.b\8021.m
Misc Info:

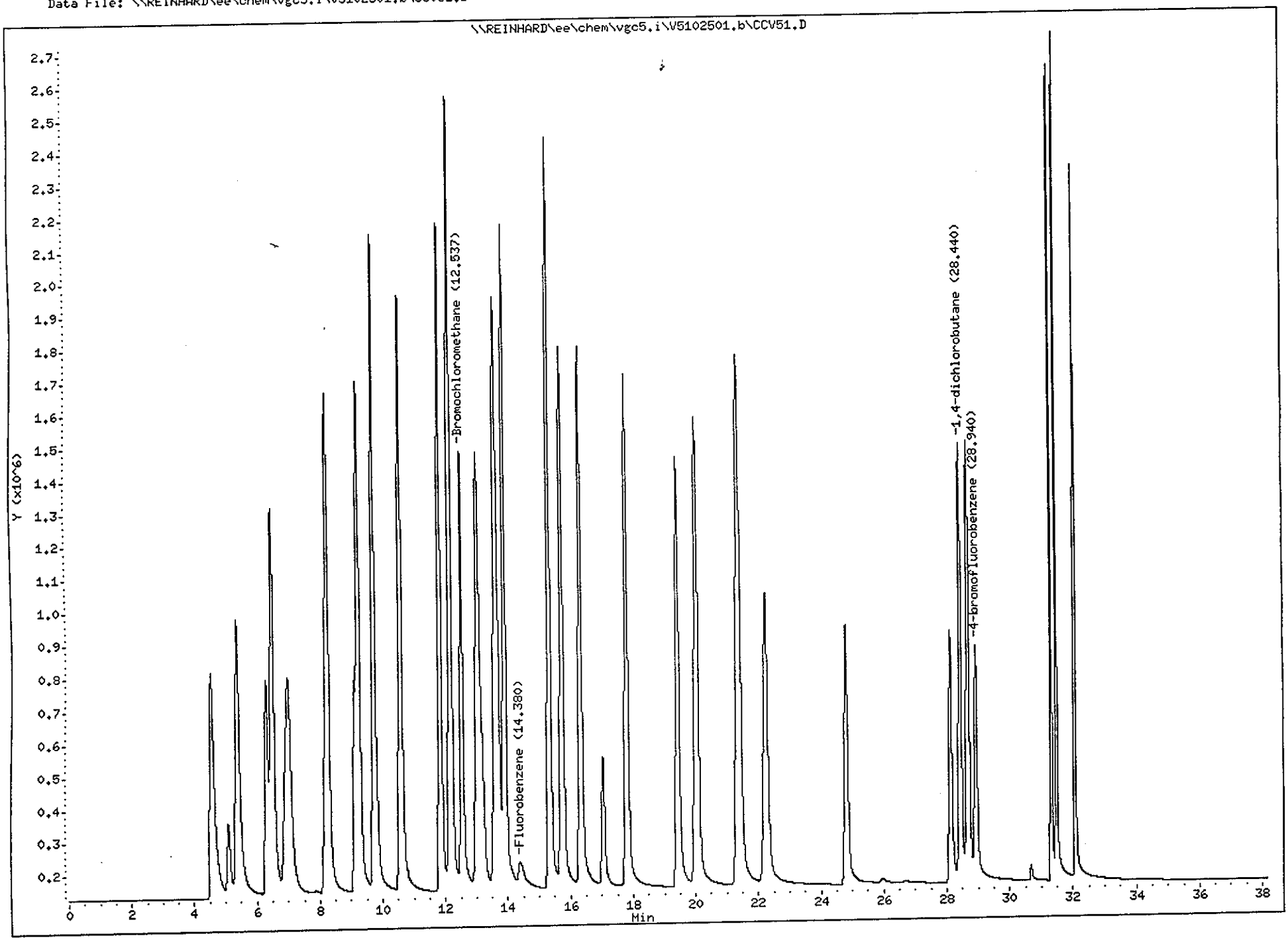
Calibration Date: 25-OCT-2001
Calibration Time: 18:57
Client Smp ID: 1025CCV51
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	281419	140710	562838	274343	-2.51

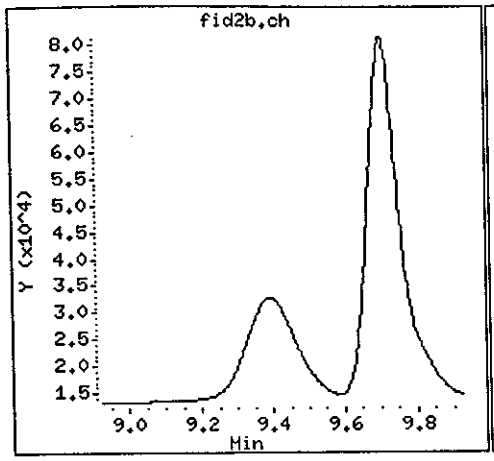
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	14.42	13.92	14.92	14.39	-0.18

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

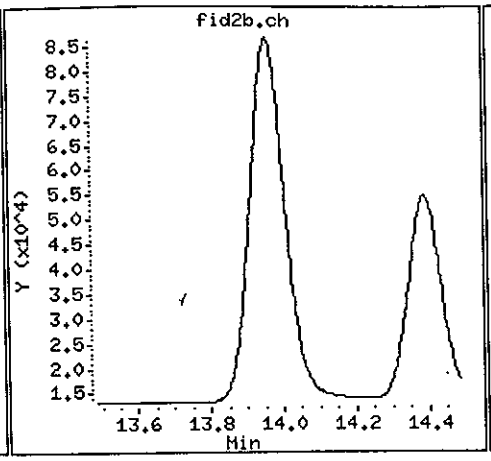
Data File: \\REINHARD\ee\chem\vgc5.i\V5102501.b\CCV51.D



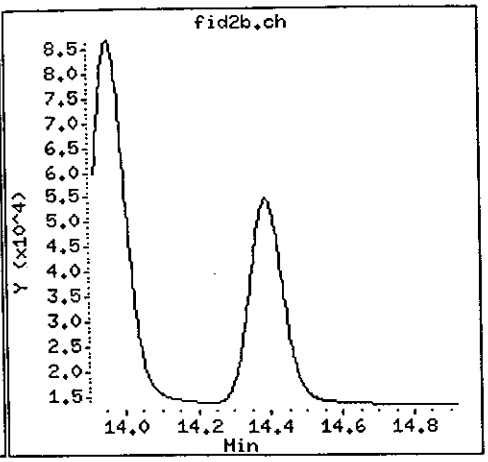
10 MTBE



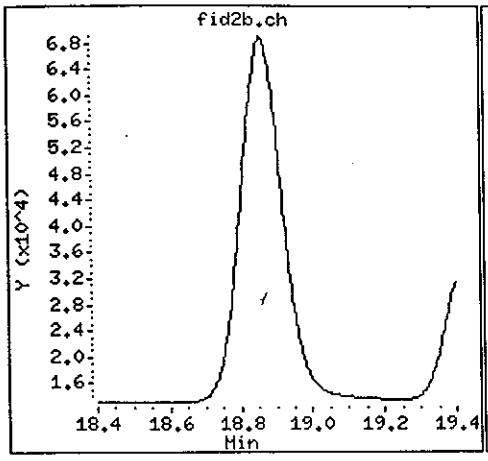
20 Benzene



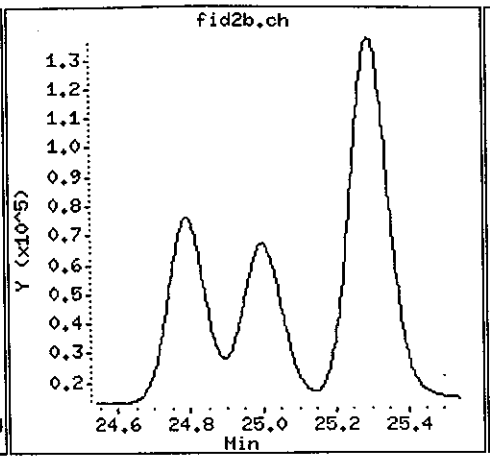
* 21 Fluorobenzene



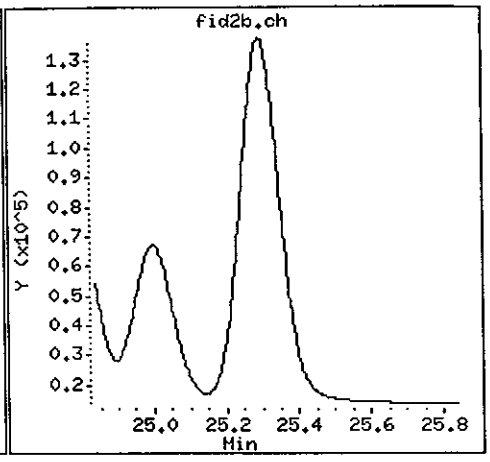
26 Toluene



32 Ethylbenzene

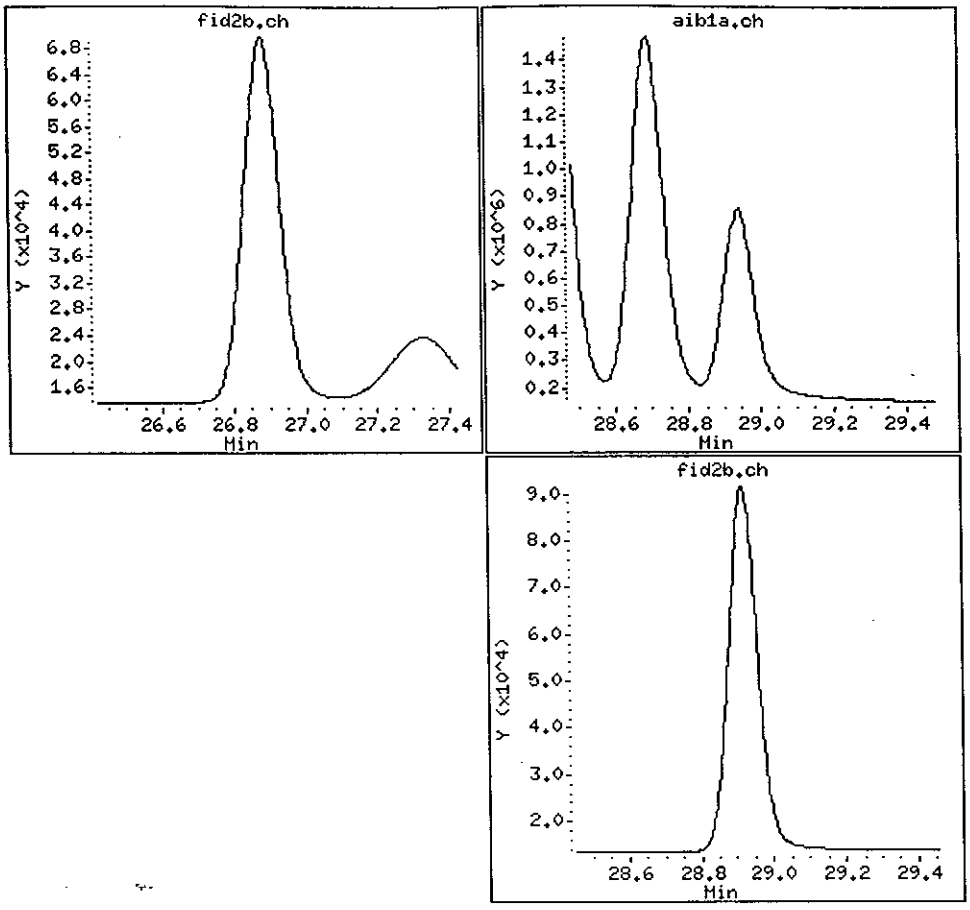


33 m,p-xylene



35 o-xylene

$ 39 4-bromofluorobenzene



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Report Date: 01-Nov-2001 14:58

PEL Laboratories

Data file : \\REINHARD\ee\chem\vgc5.i\V5102501.b\LCS51.D
Lab Smp Id: 1025LCS51 Client Smp ID: 1025LCS51
Inj Date : 25-OCT-2001 11:35
Operator : Inst ID: vgc5.i
Smp Info : 1025LCS51
Misc Info :
Comment :
Method : \\REINHARD\ee\chem\vgc5.i\V5102501.b\8021.m
Meth Date : 30-Oct-2001 15:09 tscott Quant Type: ISTD
Cal Date : 23-OCT-2001 01:55 Cal File: 100PPB.D
Als bottle: 5 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: cto062.sub
Target Version: 4.04
Processing Host: REINHARD

Concentration Formula: Amt * DF

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	10 MTBE	FID2B	9.426	9.423	(0.654)	56102	10.3279	10.3
	20 Benzene	FID2B	13.996	13.986	(0.970)	127111	8.70050	8.7
*	21 Fluorobenzene	FID2B	14.423	14.416	(1.000)	264384	30.0000	
	26 Toluene	FID2B	18.903	18.900	(1.311)	133269	9.46282	9.5
	32 Ethylbenzene	FID2B	25.043	25.040	(1.736)	129290	9.61909	9.6
	33 m,p-xylene	FID2B	25.336	25.336	(1.757)	294237	19.2211	19.2
	35 o-xylene	FID2B	26.916	26.920	(1.866)	116461	9.86544	9.9
$	39 4-bromofluorobenzene	FID2B	28.953	28.953	(2.007)	441009	28.2901	28.3

PEL Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vgc5.i
Lab File ID: LCS51.D
Lab Smp Id: 1025LCS51
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\REINHARD\ee\chem\vgc5.i\V5102501.b\8021.m
Misc Info:

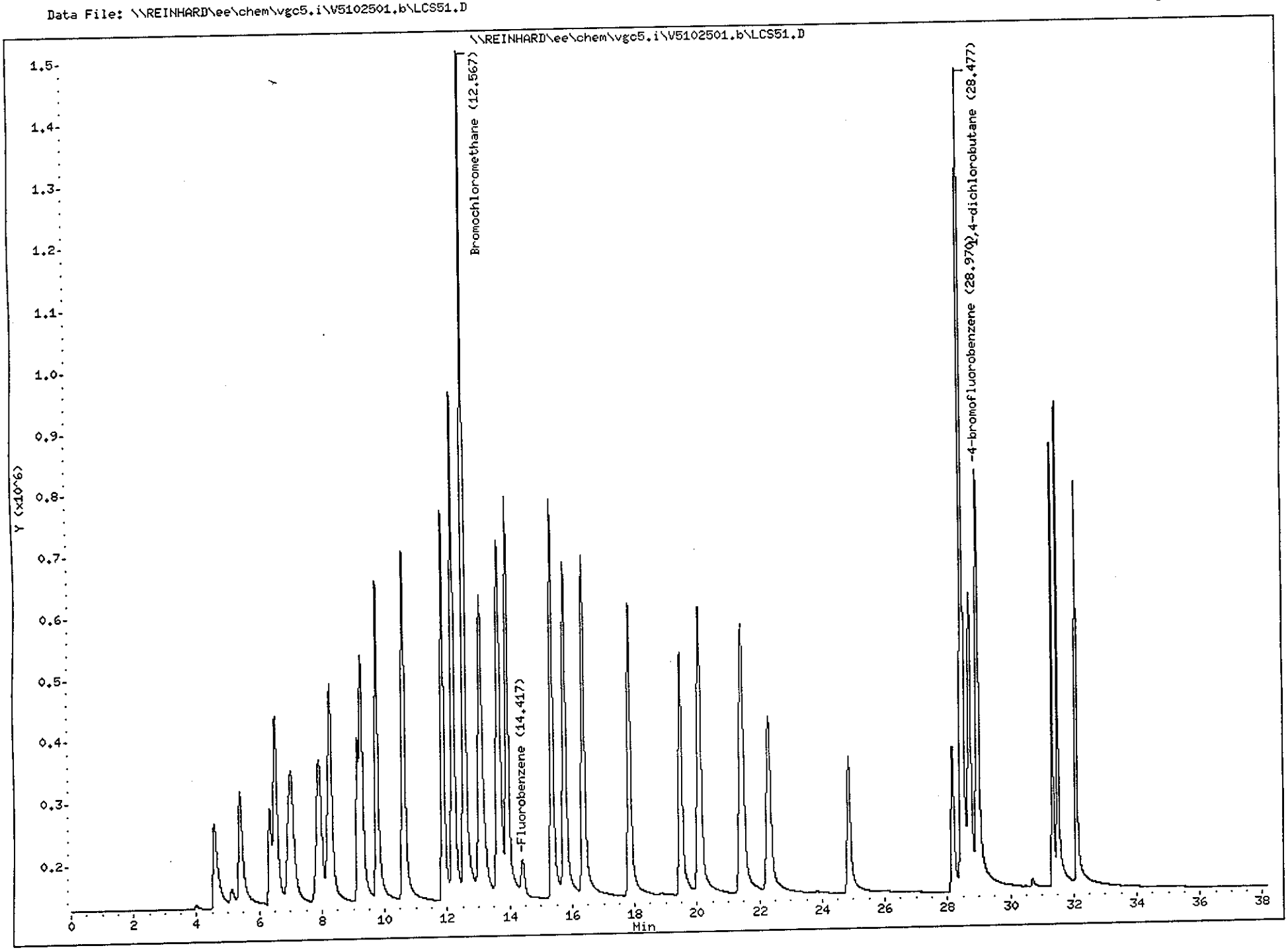
Calibration Date: 25-OCT-2001
Calibration Time: 18:57
Client Smp ID: 1025LCS51
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	281419	140710	562838	264384	-6.05

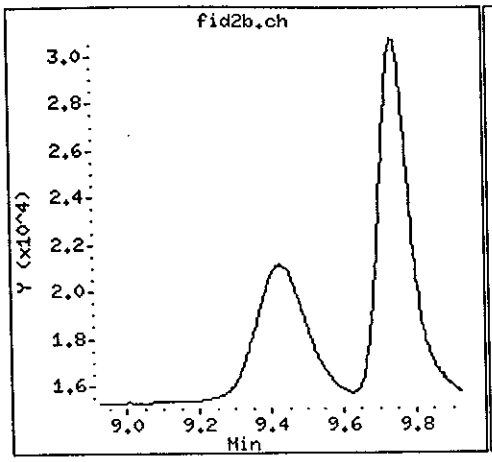
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	14.42	13.92	14.92	14.42	0.05

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

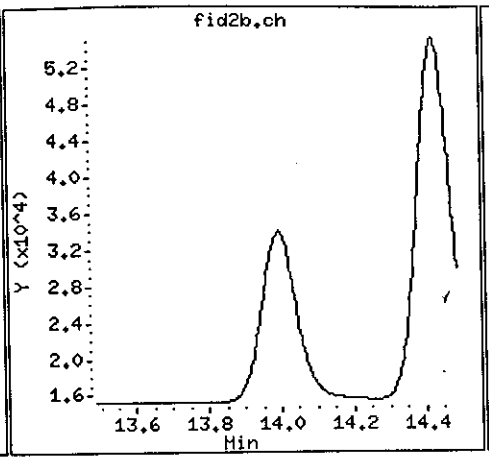
Data File: \\REINHARD\ee\chem\vgc5.i\V5102501.b\LCS51.D



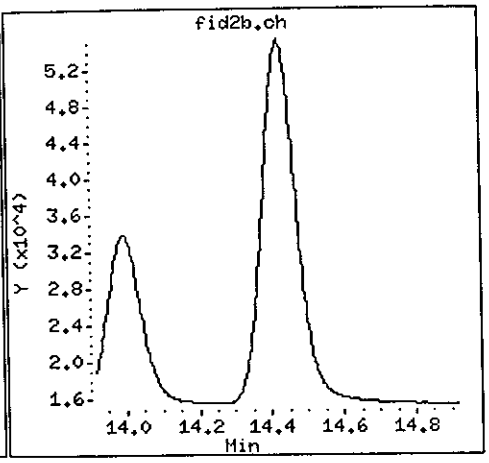
10 MTBE



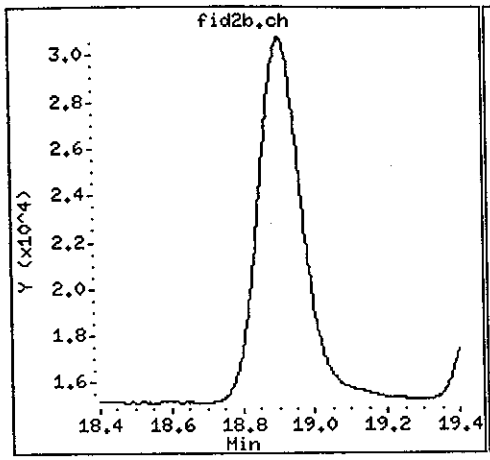
20 Benzene



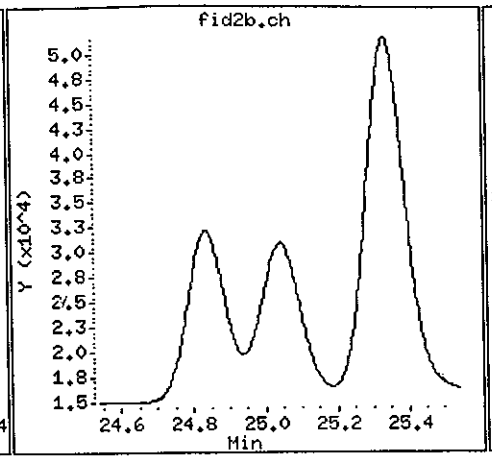
× 21 Fluorobenzene



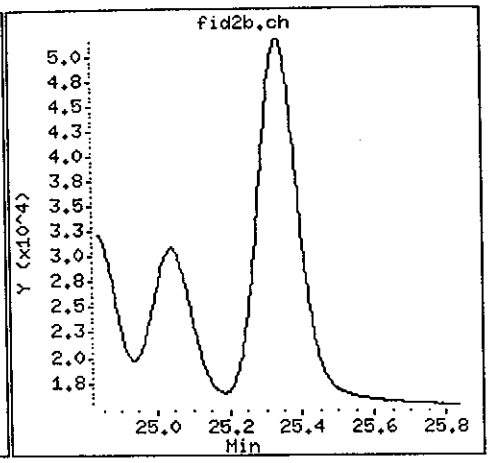
26 Toluene



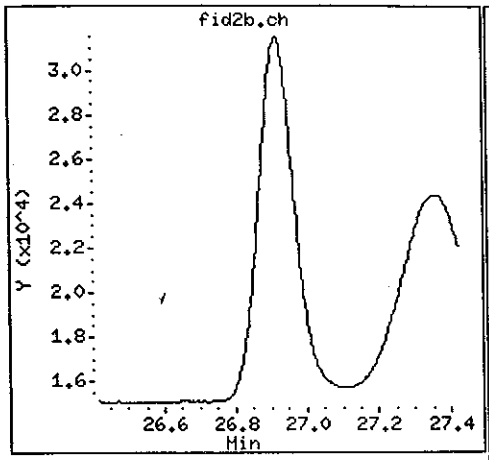
32 Ethylbenzene



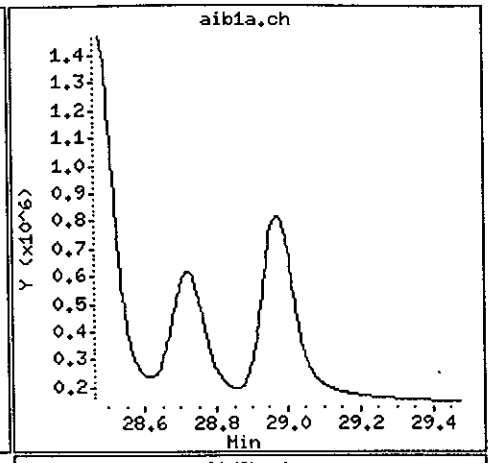
33 m,p-xylene

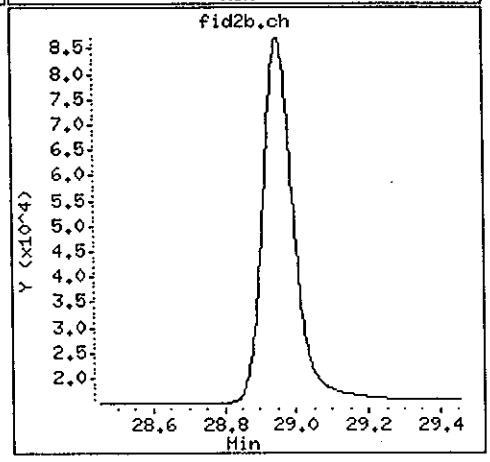


35 o-xylene



$ 39 4-bromofluorobenzene





PEL Laboratories

Data file : \\REINHARD\ee\chem\vgc5.i\V5102501.b\94-20.D
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Inj Date : 25-OCT-2001 13:15
Operator : Inst ID: vgc5.i
Smp Info : 211009420
Misc Info :
Comment :
Method : \\REINHARD\ee\chem\vgc5.i\V5102501.b\8021.m
Meth Date : 30-Oct-2001 15:09 tscott Quant Type: ISTD
Cal Date : 23-OCT-2001 01:55 Cal File: 100PPB.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: cto062.sub
Target Version: 4.04
Processing Host: REINHARD

Concentration Formula: Amt * DF

Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 21 Fluorobenzene	FID2B	14.443	14.416	(1.000)	300370	30.0000	
$ 39 4-bromofluorobenzene	FID2B	28.970	28.953	(2.006)	437796	24.7194	24.7

PEL Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vgc5.i
Lab File ID: 94-20.D
Lab Smp Id: 211009420
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\REINHARD\ee\chem\vgc5.i\V5102501.b\8021.m
Misc Info:

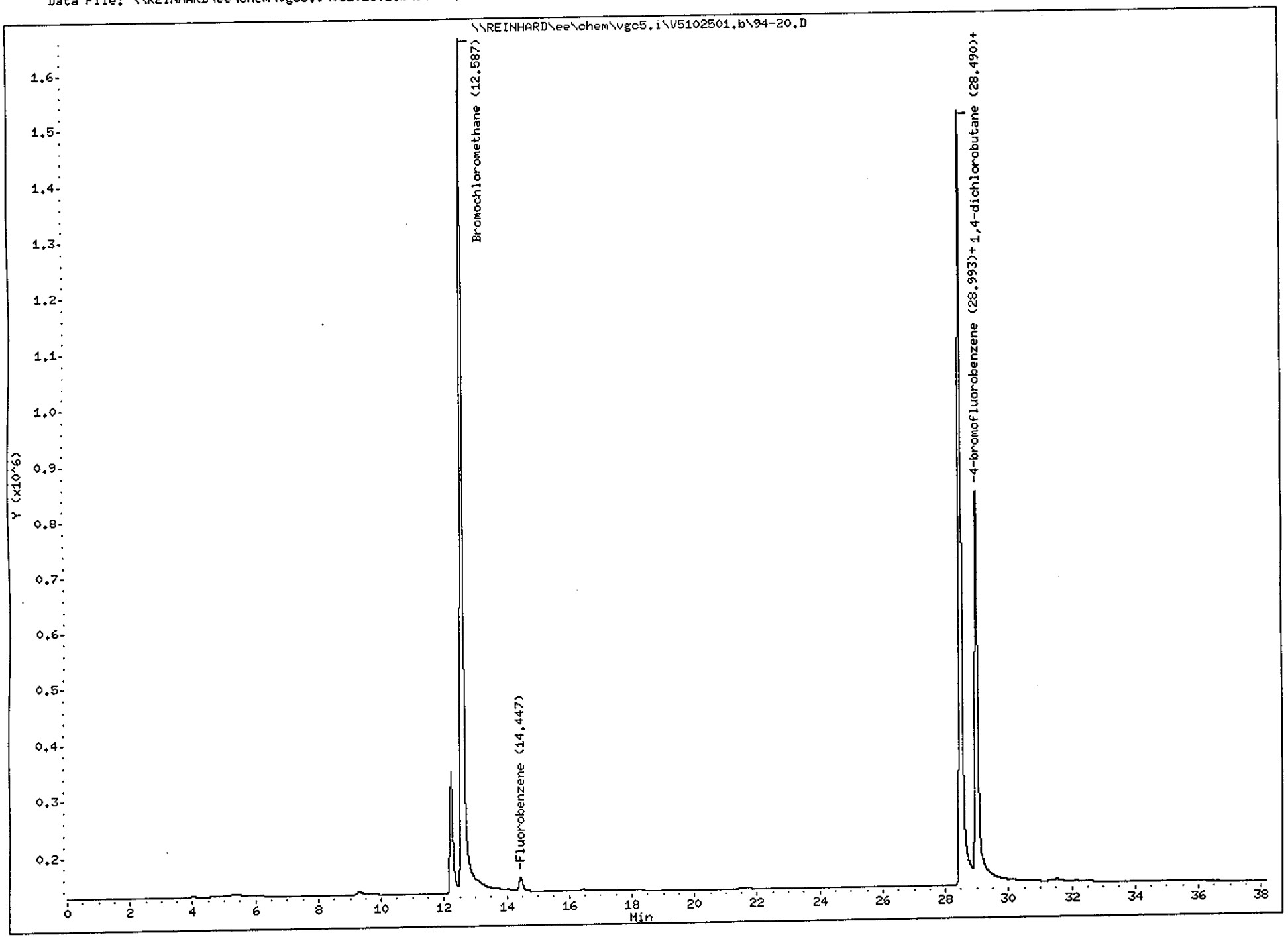
Calibration Date: 25-OCT-2001
Calibration Time: 18:57
Client Smp ID: 062EB1W101801
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	281419	140710	562838	300370	6.73

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	14.42	13.92	14.92	14.44	0.18

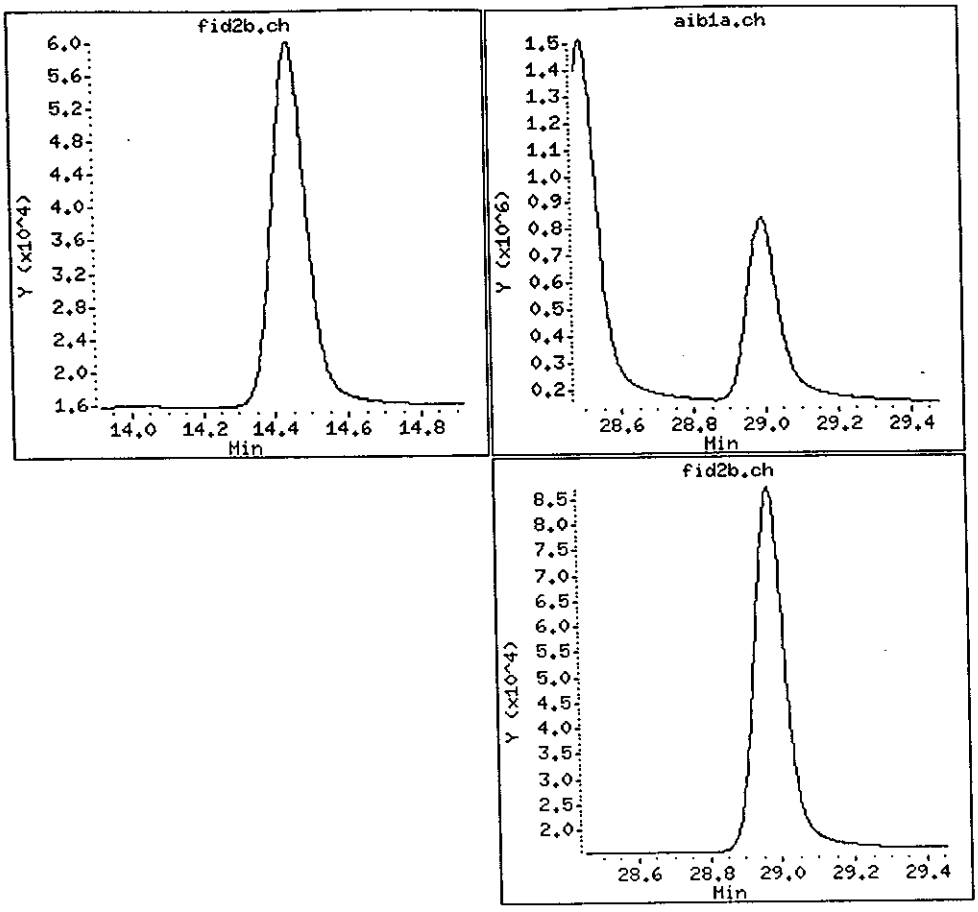
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\REINHARD\ee\chem\vgc5.i\V5102501.b\94-20.D



× 21 Fluorobenzene

$ 39 4-bromofluorobenzene



PEL Laboratories

Data file : \\REINHARD\ee\chem\vgc5.i\V5102501.b\94-21.D
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Inj Date : 25-OCT-2001 14:05
Operator : Inst ID: vgc5.i
Smp Info : 211009421
Misc Info :
Comment :
Method : \\REINHARD\ee\chem\vgc5.i\V5102501.b\8021.m
Meth Date : 30-Oct-2001 15:09 tscott Quant Type: ISTD
Cal Date : 23-OCT-2001 01:55 Cal File: 100PPB.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: cto062.sub
Target Version: 4.04
Processing Host: REINHARD

Concentration Formula: Amt * DF

Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 21 Fluorobenzene	FID2B	14.443	14.416	(1.000)	286181	30.0000	
26 Toluene	FID2B	18.933	18.900	(1.311)	40765	2.67407	2.7
$ 39 4-bromofluorobenzene	FID2B	28.973	28.953	(2.006)	436064	25.8423	25.8

PEL Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vgc5.i
Lab File ID: 94-21.D
Lab Smp Id: 211009421
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\REINHARD\ee\chem\vgc5.i\V5102501.b\8021.m
Misc Info:

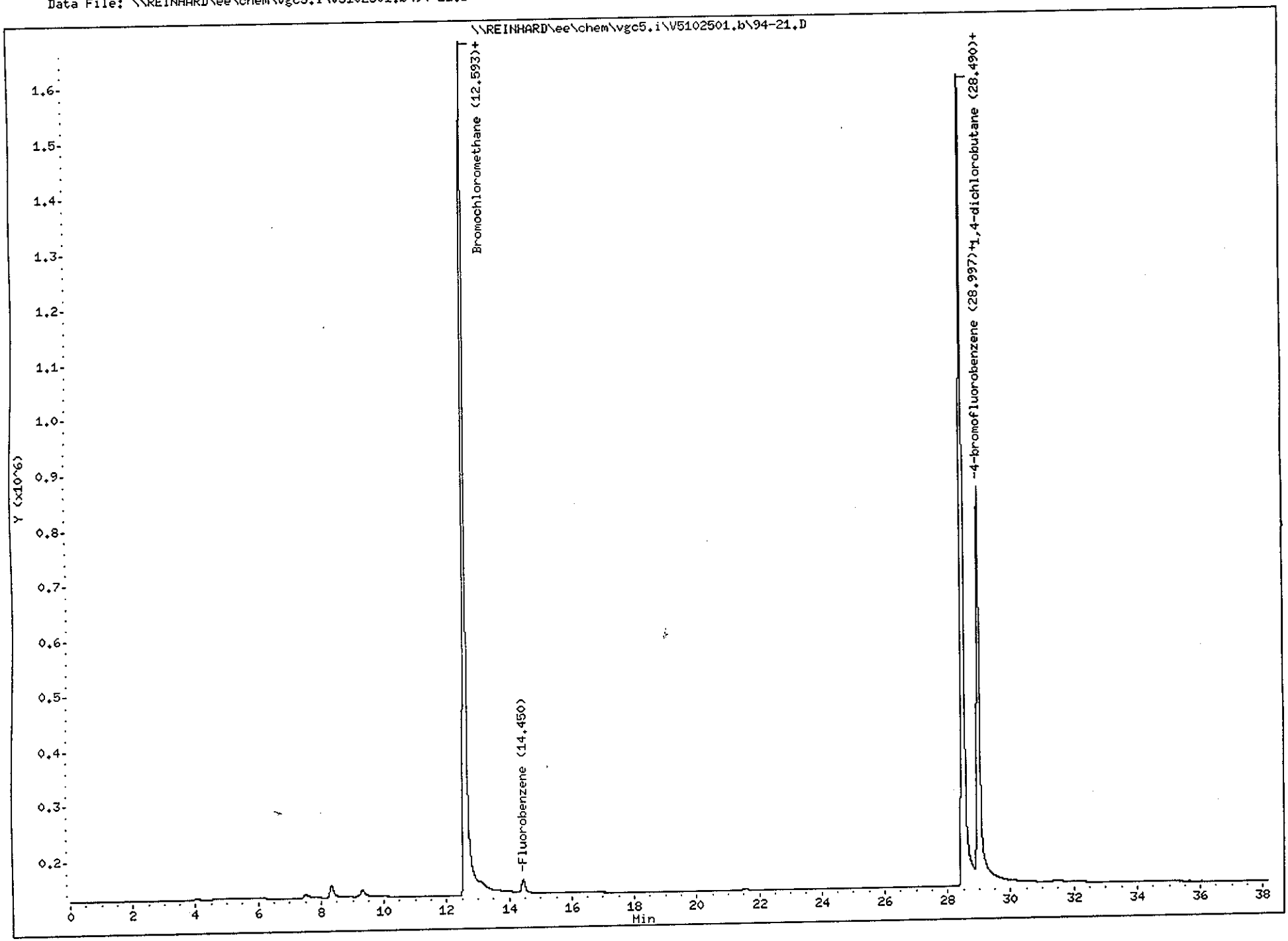
Calibration Date: 25-OCT-2001
Calibration Time: 18:57
Client Smp ID: 062TB1W101801
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	281419	140710	562838	286181	1.69

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	14.42	13.92	14.92	14.44	0.18

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

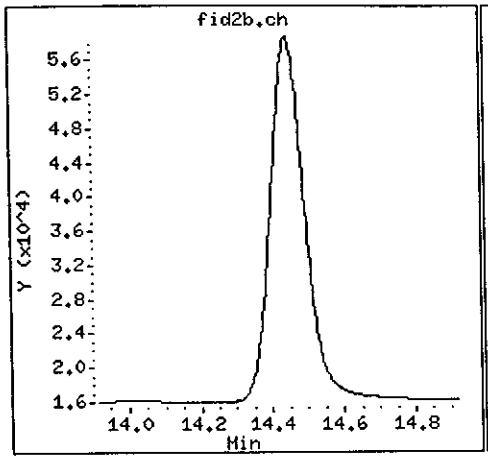
Data File: \\REINHARD\ee\chem\vgc5.i\V5102501.b\94-21.D

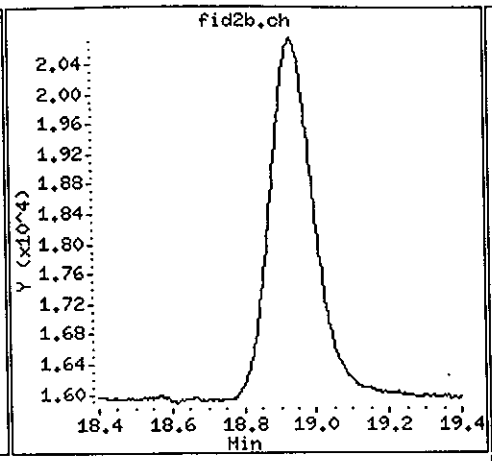


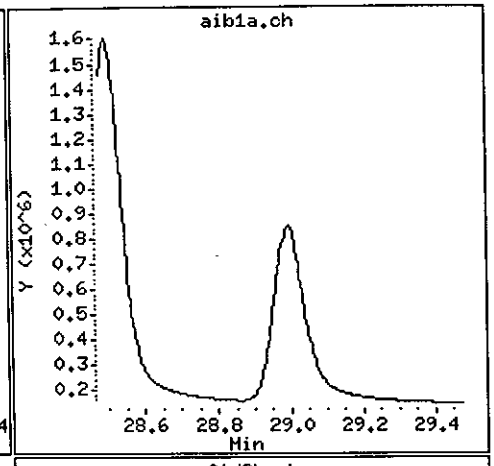
* 21 Fluorobenzene

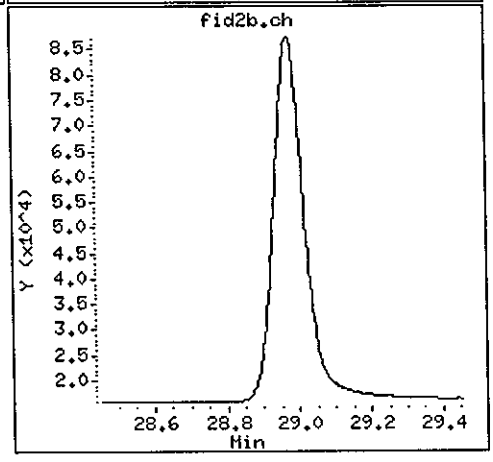
26 Toluene

$ 39 4-bromofluorobenzene









PEL Laboratories

Data file : \\REINHARD\ee\chem\vgc5.i\V5102501.b\94-22.D
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Inj Date : 25-OCT-2001 14:55
Operator : Inst ID: vgc5.i
Smp Info : 211009422
Misc Info : 211009422;;1;
Comment :
Method : \\REINHARD\ee\chem\vgc5.i\V5102501.b\8021.m
Meth Date : 30-Oct-2001 15:09 tscott Quant Type: ISTD
Cal Date : 23-OCT-2001 01:55 Cal File: 100PPB.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: cto062.sub
Target Version: 4.04
Processing Host: REINHARD

Concentration Formula: Amt * DF

Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 21 Fluorobenzene	FID2B	14.443	14.416	(1.000)	282118	30.0000	
$ 39 4-bromofluorobenzene	FID2B	28.970	28.953	(2.006)	423582	25.4641	25.5

PEL Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vgc5.i
Lab File ID: 94-22.D
Lab Smp Id: 211009422
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\REINHARD\ee\chem\vgc5.i\V5102501.b\8021.m
Misc Info: 211009422;;1;

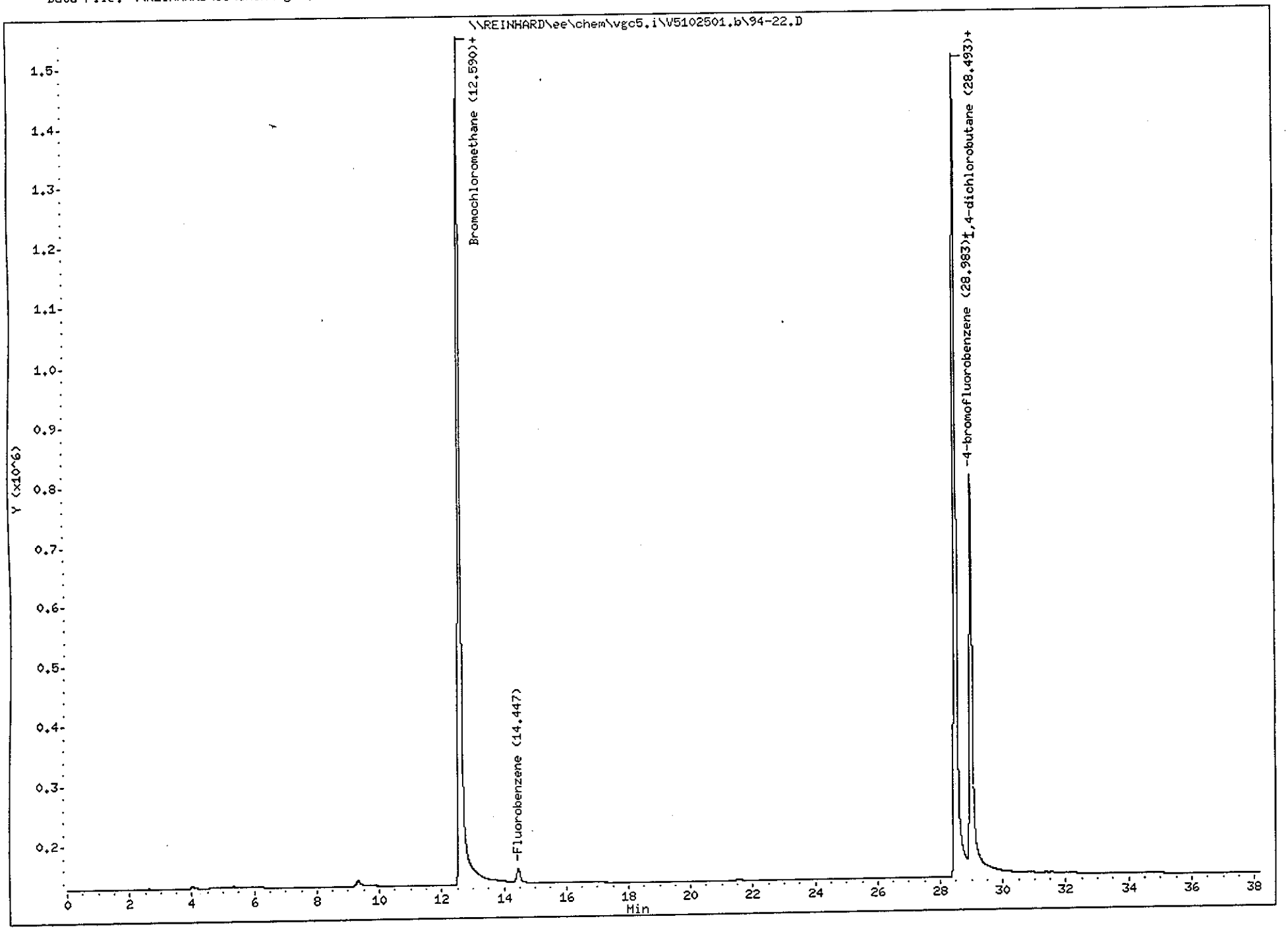
Calibration Date: 25-OCT-2001
Calibration Time: 18:57
Client Smp ID: 062TB2W101801
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	281419	140710	562838	282118	0.25

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	14.42	13.92	14.92	14.44	0.18

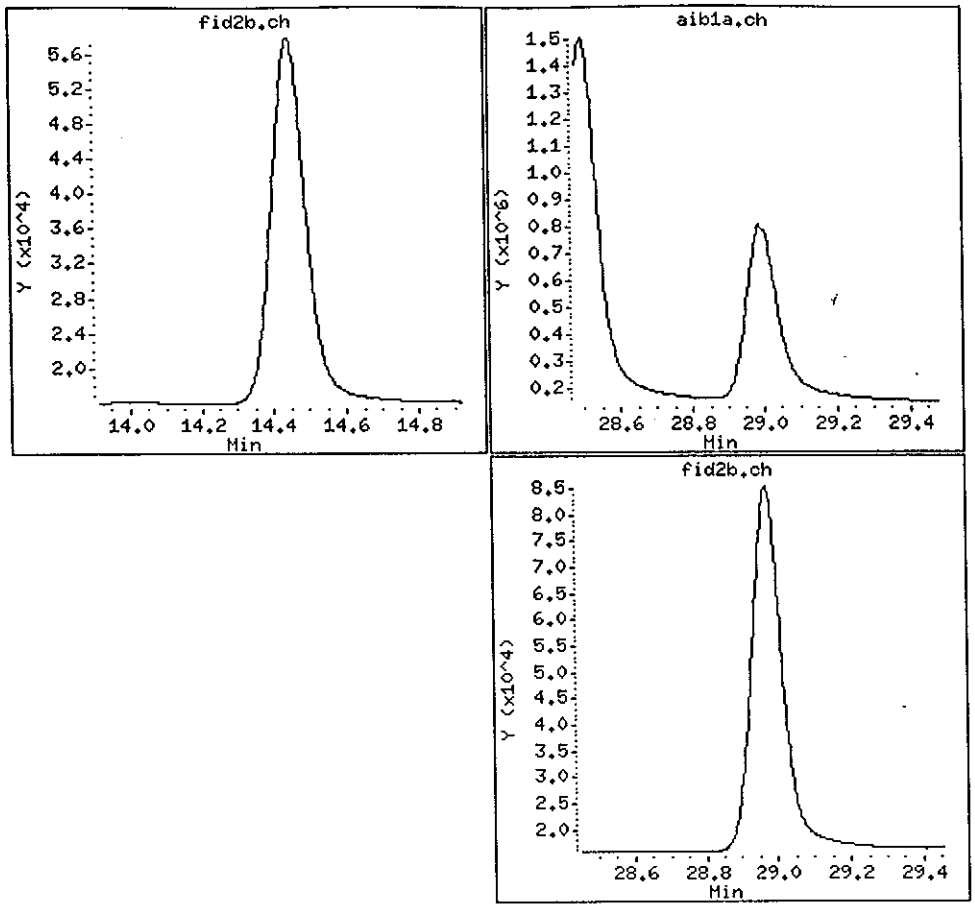
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\REINHARD\ee\chem\vgc5.i\V5102501.b\94-22.D



* 21 Fluorobenzene

$ 39 4-bromofluorobenzene



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Report Date: 01-Nov-2001 14:58

PEL Laboratories

Data file : \\REINHARD\ee\chem\vgc5.i\V5102501.b\BLKD.D
Lab Smp Id: 1025BLK51MSD Client Smp ID: 1025BLK51MSD
Inj Date : 25-OCT-2001 17:21
Operator : Inst ID: vgc5.i
Smp Info : 1025BLK51MSD
Misc Info :
Comment :
Method : \\REINHARD\ee\chem\vgc5.i\V5102501.b\8021.m
Meth Date : 30-Oct-2001 15:09 tscott Quant Type: ISTD
Cal Date : 23-OCT-2001 01:55 Cal File: 100PPB.D
Als bottle: 11 QC Sample: MSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: cto062.sub
Target Version: 4.04
Processing Host: REINHARD

Concentration Formula: Amt * DF

Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
10 MTBE	FID2B	9.433	9.423	(0.654)	78166	13.1457	13.1
20 Benzene	FID2B	13.993	13.986	(0.970)	195078	12.1983	12.2
* 21 Fluorobenzene	FID2B	14.423	14.416	(1.000)	289404	30.0000	
26 Toluene	FID2B	18.906	18.900	(1.311)	186986	12.1292	12.1
32 Ethylbenzene	FID2B	25.046	25.040	(1.737)	169896	11.5474	11.5
33 m,p-xylene	FID2B	25.340	25.336	(1.757)	381355	22.7584	22.8
35 o-xylene	FID2B	26.920	26.920	(1.866)	155012	11.9959	12.0
$ 39 4-bromofluorobenzene	FID2B	28.960	28.953	(2.008)	415901	24.3729	24.4

PEL Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vgc5.i
Lab File ID: BLKD.D
Lab Smp Id: 1025BLK51MSD
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\REINHARD\ee\chem\vgc5.i\V5102501.b\8021.m
Misc Info:

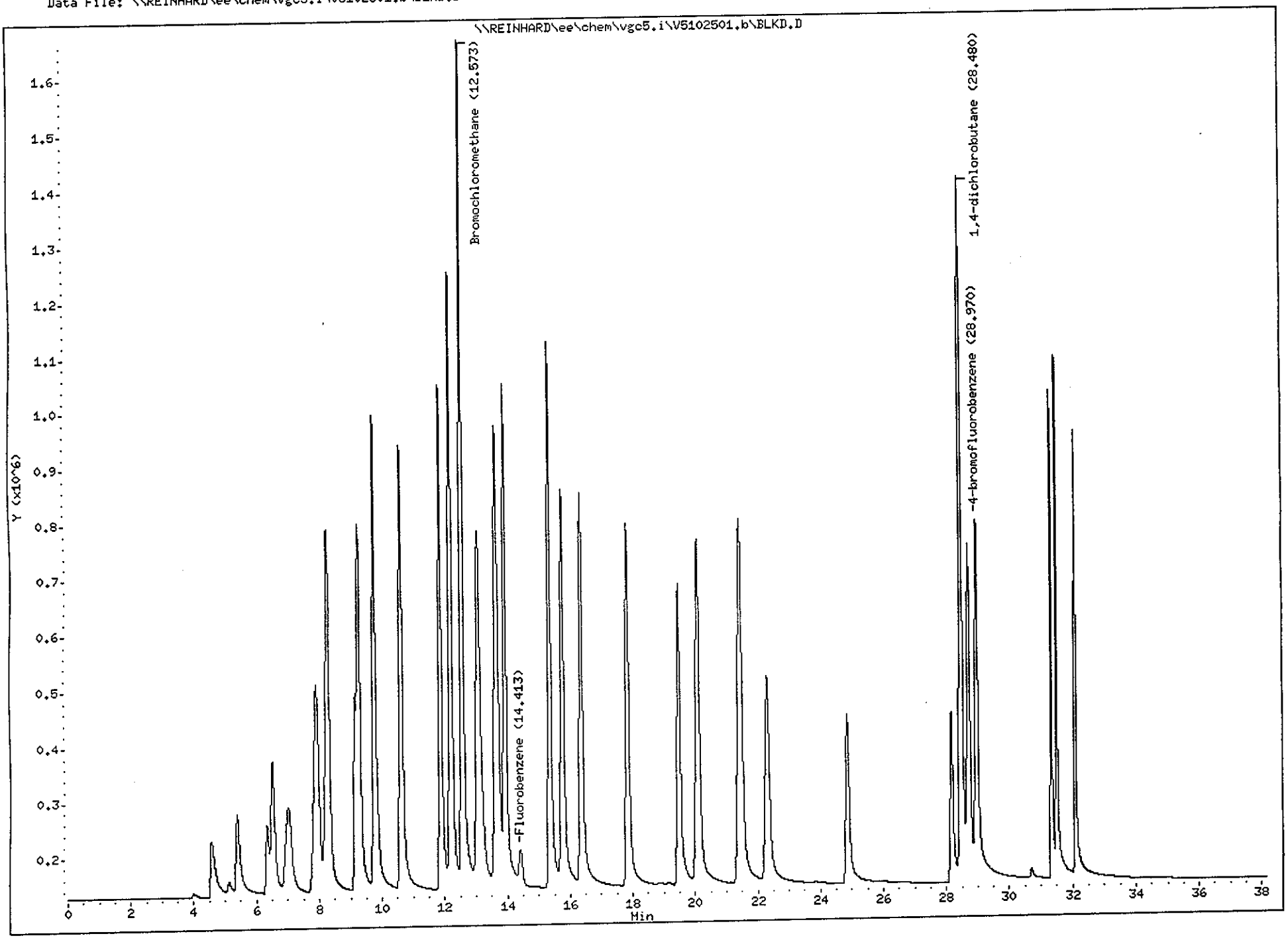
Calibration Date: 25-OCT-2001
Calibration Time: 18:57
Client Smp ID: 1025BLK51MSD
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	281419	140710	562838	289404	2.84

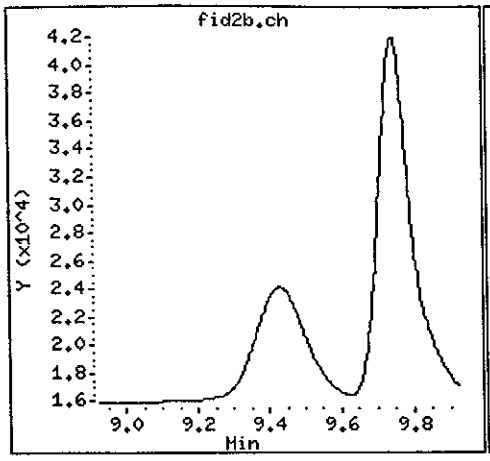
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	14.42	13.92	14.92	14.42	0.05

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

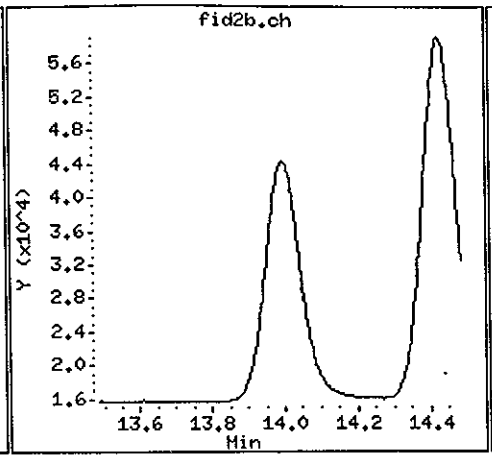
Data File: \\REINHARD\ee\chem\vgc5.i\V5102501.b\BLKD.D



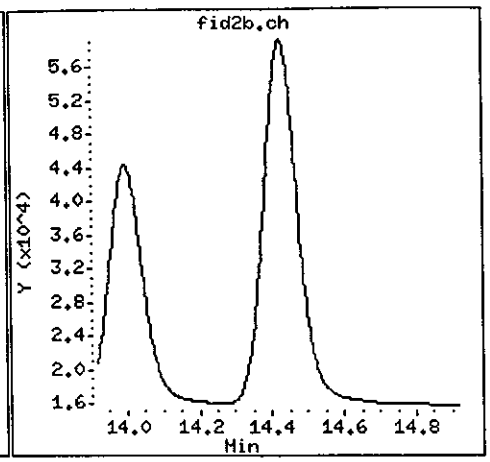
10 MTBE



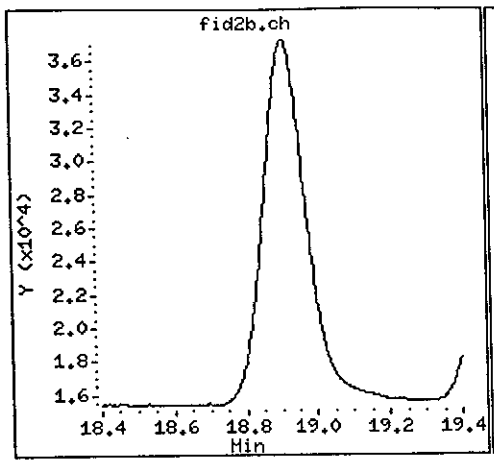
20 Benzene



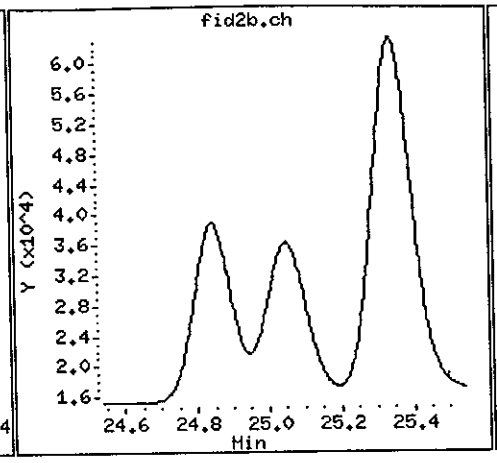
× 21 Fluorobenzene



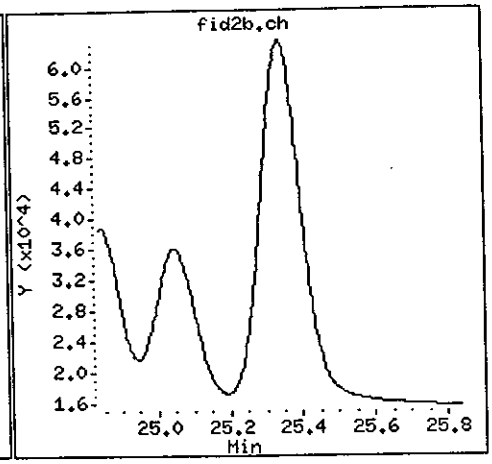
26 Toluene



32 Ethylbenzene

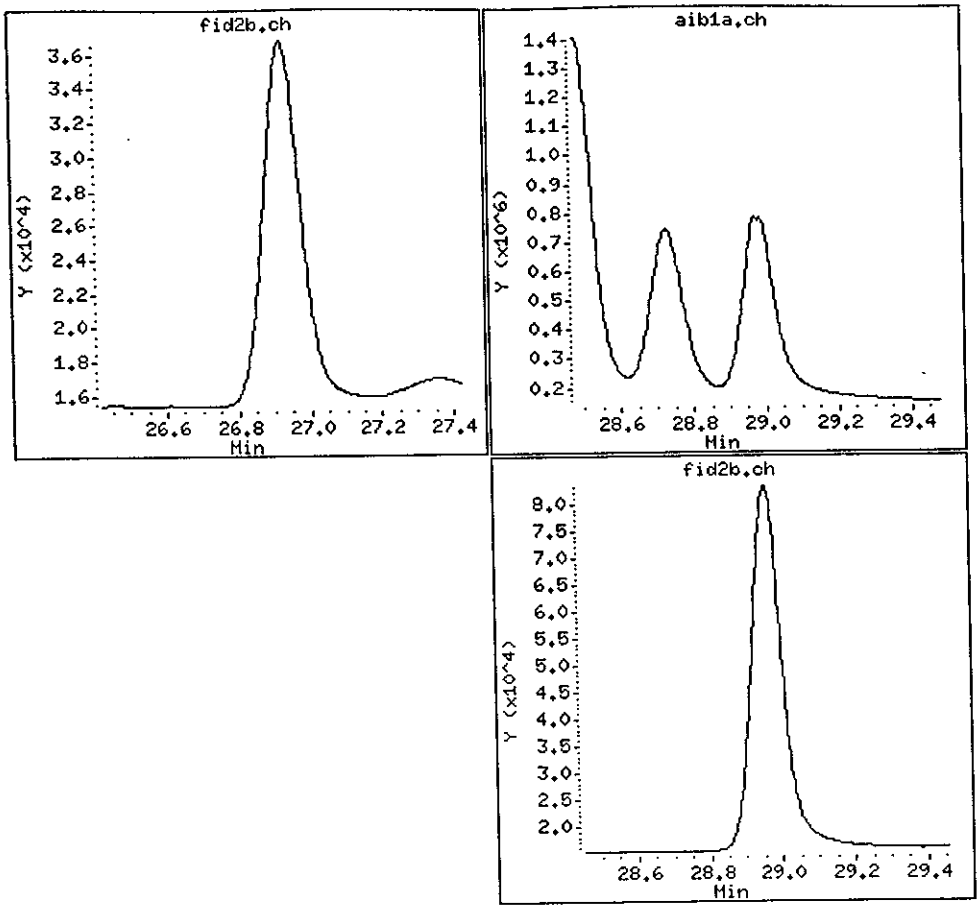


33 m,p-xylene



35 o-xylene

$ 39 4-bromofluorobenzene



PEL Laboratories

Data file : \\REINHARD\ee\chem\vgc5.i\V5102501.b\BLKU.D
Lab Smp Id: 1025BLK51MS Client Smp ID: 1025BLK51MS
Inj Date : 25-OCT-2001 18:09
Operator : Inst ID: vgc5.i
Smp Info : 1025BLK51MS
Misc Info :
Comment :
Method : \\REINHARD\ee\chem\vgc5.i\V5102501.b\8021.m
Meth Date : 30-Oct-2001 15:09 tscott Quant Type: ISTD
Cal Date : 23-OCT-2001 01:55 Cal File: 100PPB.D
Als bottle: 12 QC Sample: MS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: cto062.sub
Target Version: 4.04
Processing Host: REINHARD

Concentration Formula: Amt * DF

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	10 MTBE	FID2B	9.426	9.423	(0.654)	76201	13.2655	13.3(M)
	20 Benzene	FID2B	13.990	13.986	(0.970)	186983	12.1030	12.1
*	21 Fluorobenzene	FID2B	14.420	14.416	(1.000)	279580	30.0000	
	26 Toluene	FID2B	18.903	18.900	(1.311)	181094	12.1597	12.2
	32 Ethylbenzene	FID2B	25.043	25.040	(1.737)	164105	11.5457	11.5
	33 m,p-xylene	FID2B	25.340	25.336	(1.757)	372438	23.0072	23.0
	35 o-xylene	FID2B	26.920	26.920	(1.867)	149145	11.9474	11.9
$	39 4-bromofluorobenzene	FID2B	28.956	28.953	(2.008)	414385	25.1374	25.1

QC Flag Legend

M - Compound response manually integrated.

PEL Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vgc5.i
Lab File ID: BLKU.D
Lab Smp Id: 1025BLK51MS
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\REINHARD\ee\chem\vgc5.i\V5102501.b\8021.m
Misc Info:

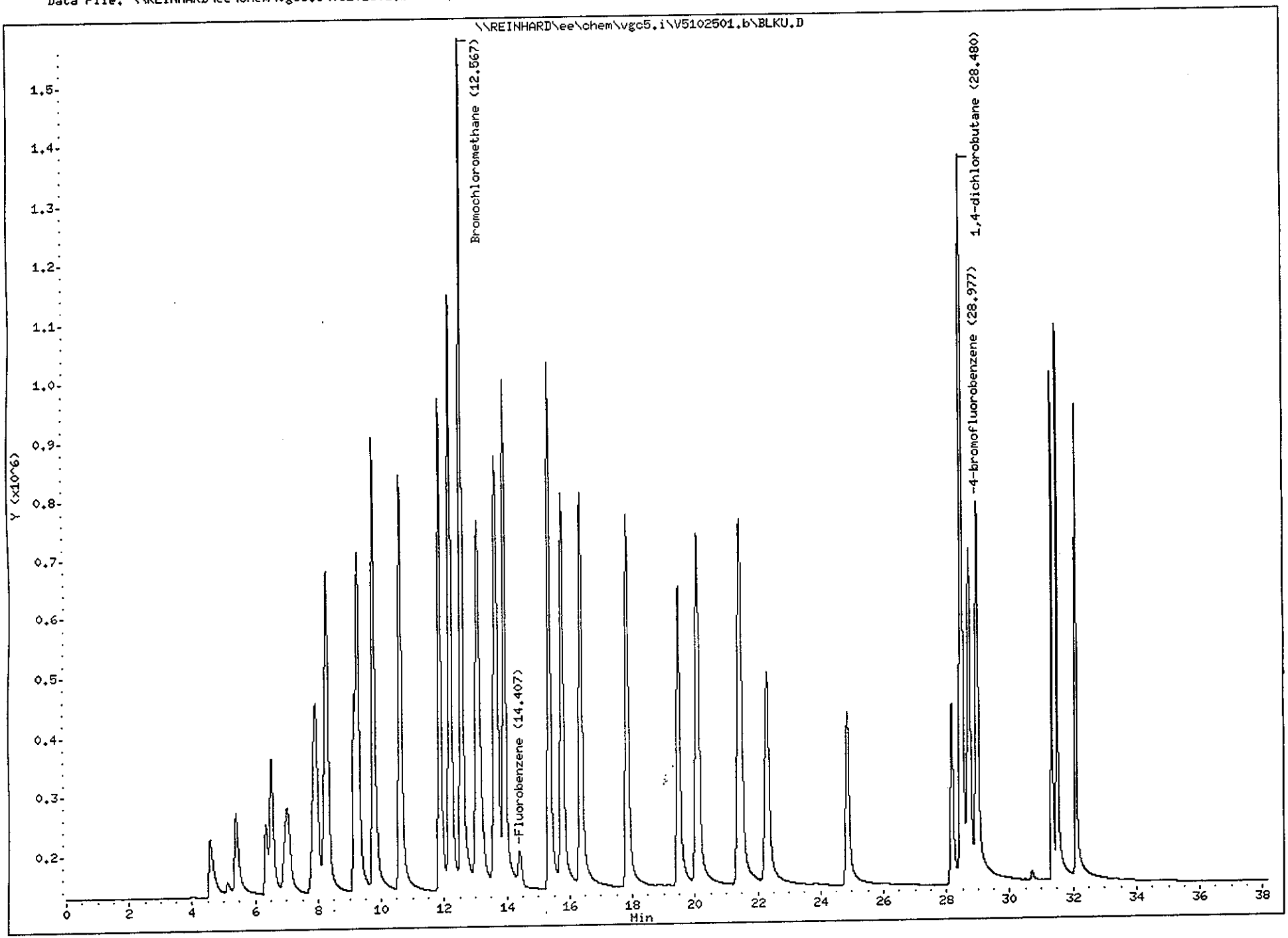
Calibration Date: 25-OCT-2001
Calibration Time: 18:57
Client Smp ID: 1025BLK51MS
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	281419	140710	562838	279580	-0.65

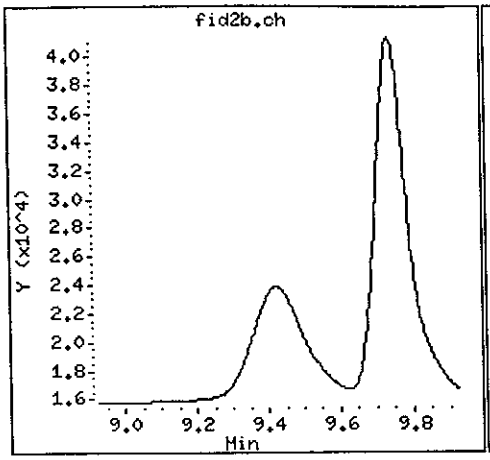
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	14.42	13.92	14.92	14.42	0.02

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

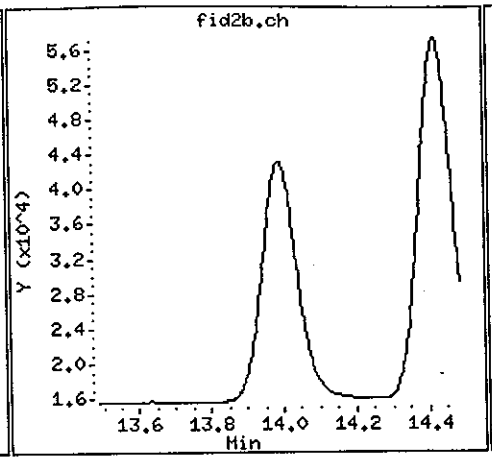
Data File: \\REINHARD\ee\chem\vgc5.i\V5102501.b\BLKU.D



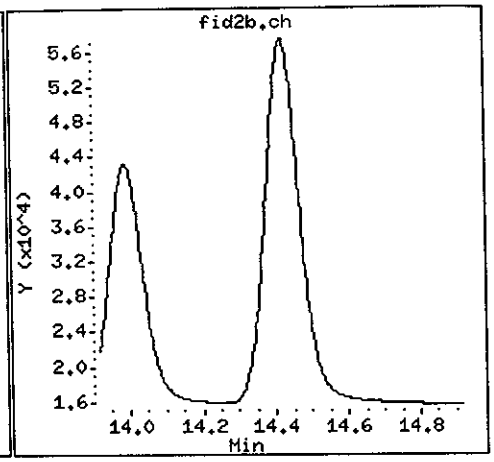
10 MTBE



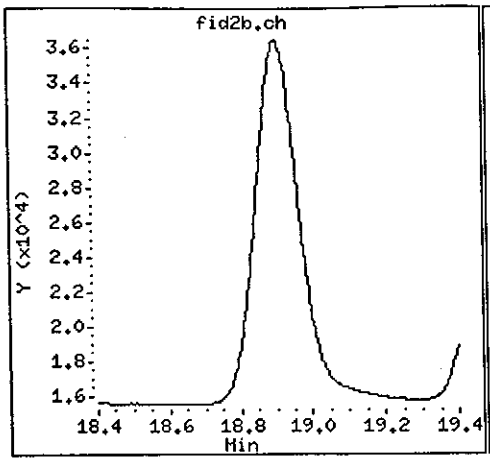
20 Benzene



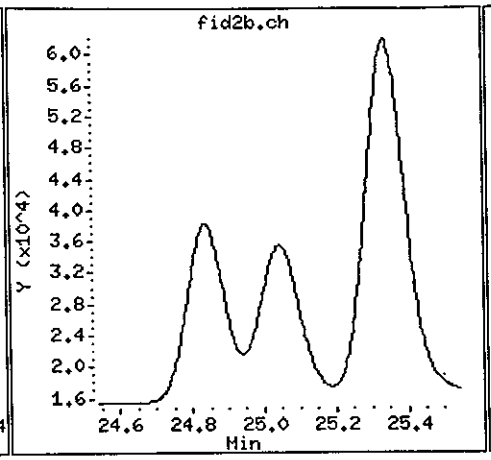
21 Fluorobenzene



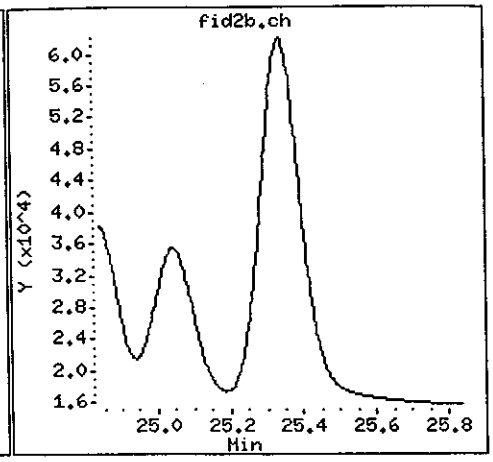
26 Toluene



32 Ethylbenzene



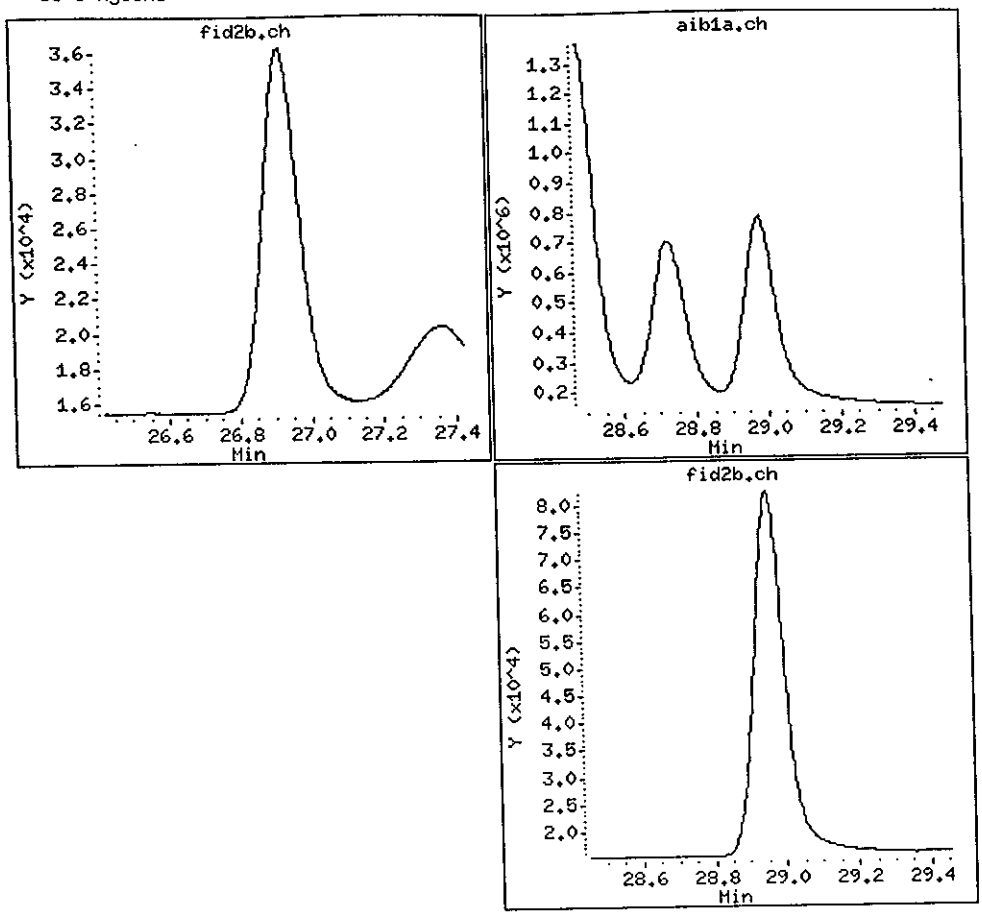
33 m,p-xylene



Data File: \\REINHARD\ee\chem\vgc5.i\V5102501.b\BLKU.D

35 o-xylene

$ 39 4-bromofluorobenzene



PEL Laboratories

Data file : \\REINHARD\ee\chem\vgc5.i\V5102501.b\CCV53.D
Lab Smp Id: 1025CCV53 Client Smp ID: 1025CCV53
Inj Date : 25-OCT-2001 18:57
Operator : Inst ID: vgc5.i
Smp Info : 1025CCV53
Misc Info :
Comment :
Method : \\REINHARD\ee\chem\vgc5.i\V5102501.b\8021.m
Meth Date : 30-Oct-2001 15:09 tscott Quant Type: ISTD
Cal Date : 23-OCT-2001 01:55 Cal File: 100PPB.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: cto062.sub
Target Version: 4.04
Processing Host: REINHARD

Concentration Formula: Amt * DF

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	10 MTBE	FID2B	9.423	9.423	(0.654)	188337	32.5726	32.6
	20 Benzene	FID2B	13.986	13.986	(0.970)	462058	29.7125	29.7
*	21 Fluorobenzene	FID2B	14.416	14.416	(1.000)	281419	30.0000	
	26 Toluene	FID2B	18.900	18.900	(1.311)	425461	28.3813	28.4
	32 Ethylbenzene	FID2B	25.040	25.040	(1.737)	401006	28.0286	28.0
	33 m,p-xylene	FID2B	25.336	25.336	(1.757)	885514	54.3448	54.3
	35 o-xylene	FID2B	26.920	26.920	(1.867)	361469	28.7666	28.8
$	39 4-bromofluorobenzene	FID2B	28.953	28.953	(2.008)	420218	25.3247	25.3(M)

QC Flag Legend

M - Compound response manually integrated.

PEL Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

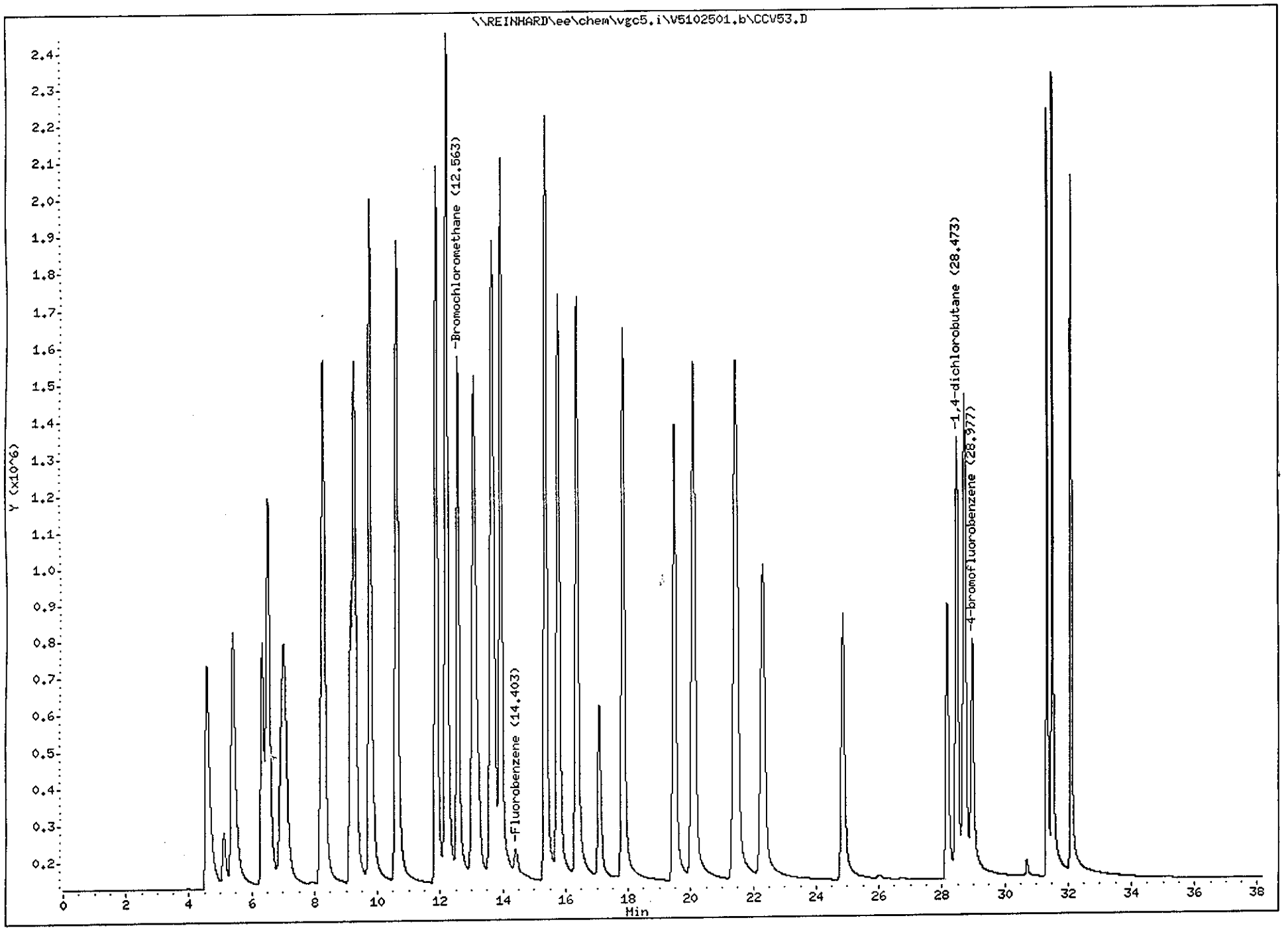
Instrument ID: vgc5.i
Lab File ID: CCV53.D
Lab Smp Id: 1025CCV53
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\REINHARD\ee\chem\vgc5.i\V5102501.b\8021.m
Misc Info:

Calibration Date: 25-OCT-2001
Calibration Time: 18:57
Client Smp ID: 1025CCV53
Level: LOW
Sample Type: WATER

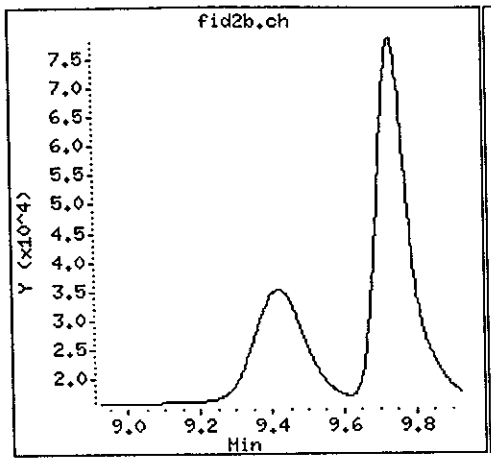
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	281419	140710	562838	281419	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	14.42	13.92	14.92	14.42	0.00

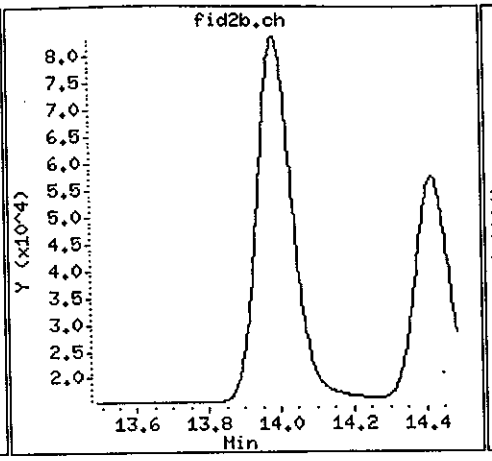
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.


\\REINHARD\ee\chem\vgc5.i\V5102501.b\CCV53.D
Y (x10^6)
Min
-Bromochloromethane (12.563)
-Fluorobenzene (14.403)
-1,4-dichlorobutane (28.473)
-4-bromofluorobenzene (28.977)

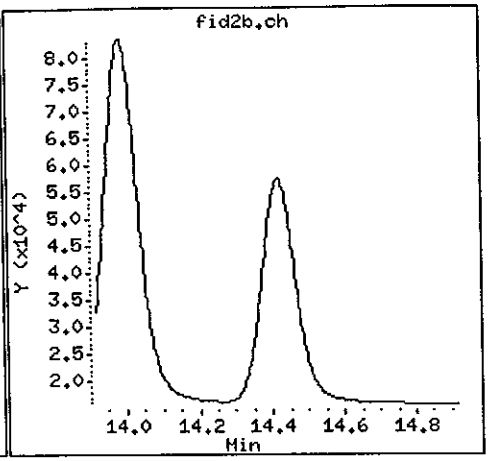
10 MTBE



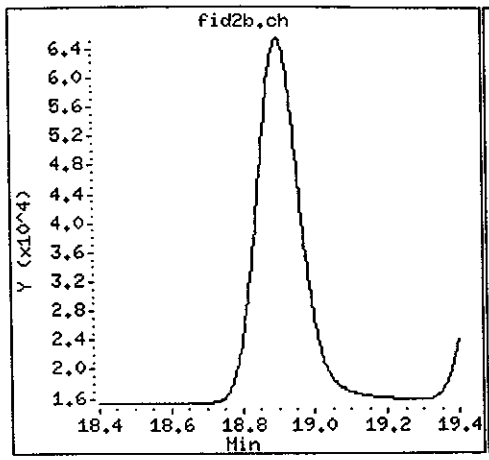
20 Benzene



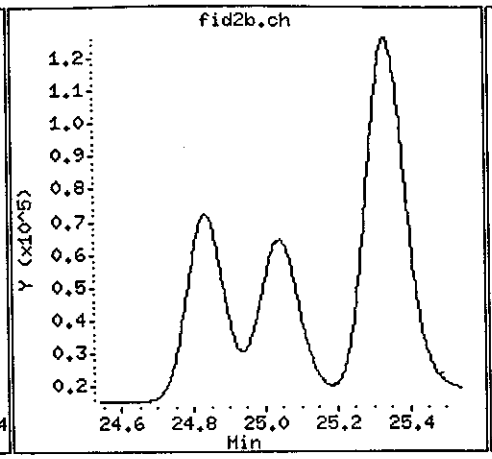
* 21 Fluorobenzene



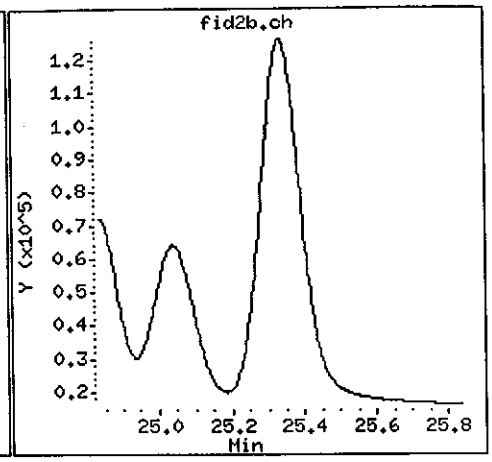
26 Toluene



32 Ethylbenzene

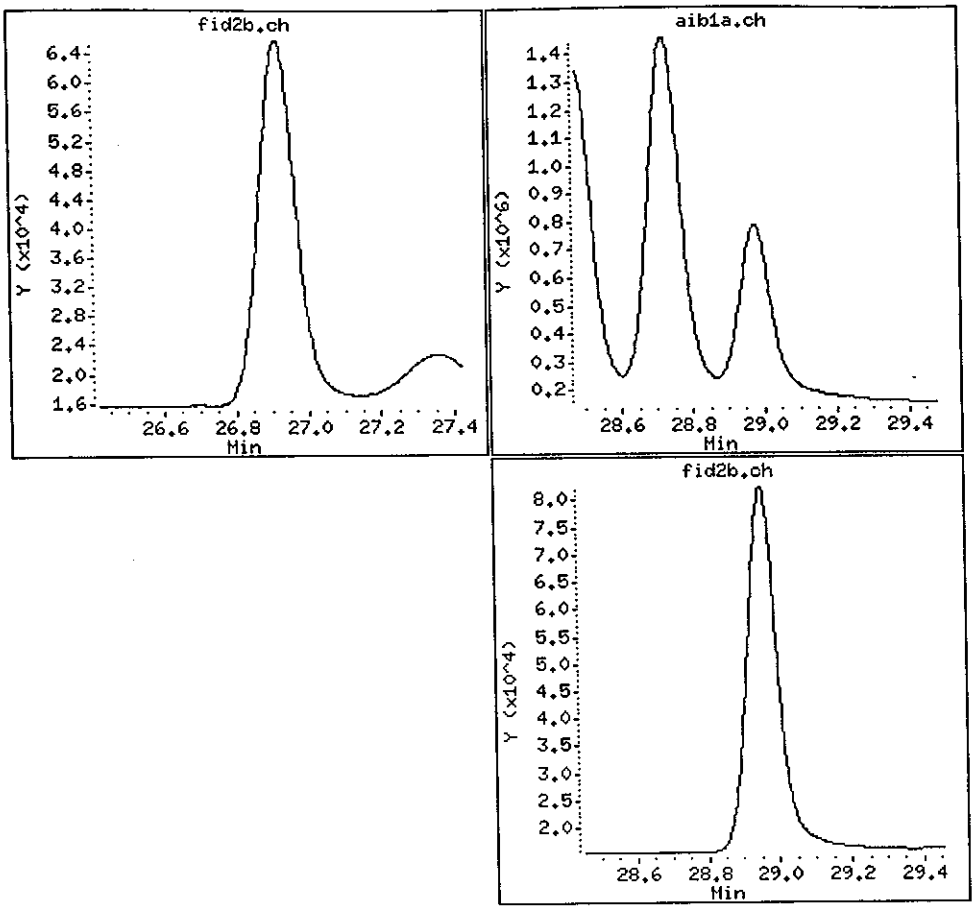


33 m,p-xylene



35 o-xylene

$ 39 4-bromofluorobenzene



PEL Laboratories

Data file : \\Reinhard\ee\chem\vgc6.i\V6102401a.b\CCV62.D
Lab Smp Id: 1024CCV62 Client Smp ID: 1024CCV62
Inj Date : 24-OCT-2001 15:34
Operator : Inst ID: vgc6.i
Smp Info : 1024CCV62
Misc Info :
Comment :
Method : \\Reinhard\ee\chem\vgc6.i\V6102401a.b\8021S.m
Meth Date : 02-Nov-2001 14:13 lpelo Quant Type: ISTD
Cal Date : 23-OCT-2001 23:22 Cal File: 500PPT.D
Als bottle: 18
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: cto-062.sub
Target Version: 4.04
Processing Host: FILES

Concentration Formula: Amt * DF * 5/(ws*(1-(m/100)))

Name	Value	Description
DF	1.000	Dilution Factor
ws	5.000	weight in grams
m	0.000	

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/kg)
	10 MTBE	FID2B	9.996	9.996	(0.663)	77294	29.7594	29.8
	20 Benzene	FID2B	14.640	14.640	(0.971)	204377	28.6257	28.6
*	21 Fluorobenzene	FID2B	15.070	15.070	(1.000)	109188	30.0000	
	26 Toluene	FID2B	19.840	19.840	(1.317)	185348	27.5395	27.5
	33 Ethylbenzene	FID2B	26.203	26.203	(1.739)	172039	26.7459	26.7
	34 m,p-xylene	FID2B	26.523	26.523	(1.760)	378281	52.2169	52.2
	35 o-xylene	FID2B	28.280	28.280	(1.877)	153750	26.8131	26.8
$	39 4-bromofluorobenzene	FID2B	30.650	30.650	(2.034)	154153	24.6410	24.6

PEL Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vgc6.i
Lab File ID: CCV62.D
Lab Smp Id: 1024CCV62
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\Reinhard\ee\chem\vgc6.i\V6102401a.b\8021S.m
Misc Info:

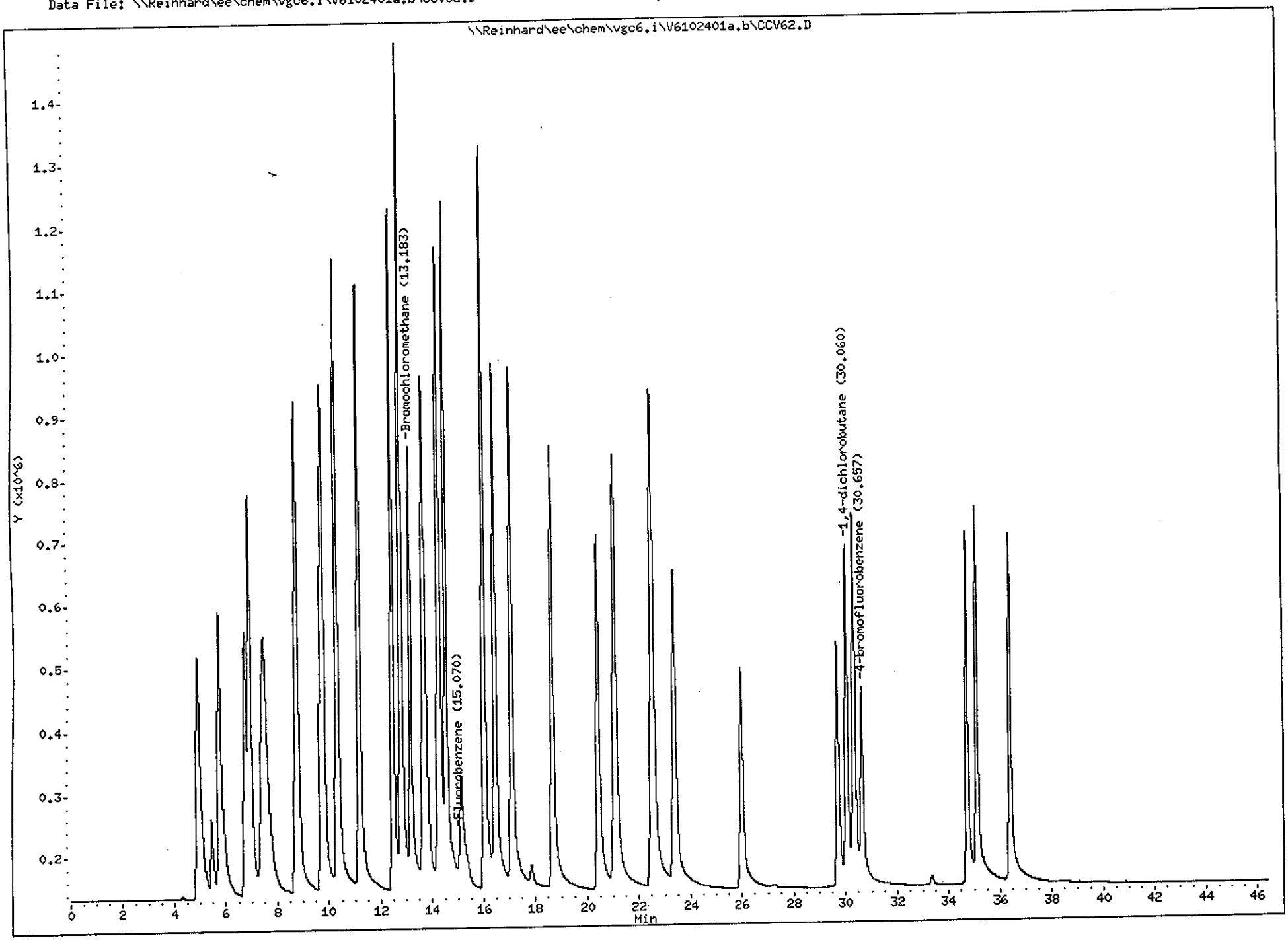
Calibration Date: 24-OCT-2001
Calibration Time: 15:34
Client Smp ID: 1024CCV62
Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	109188	54594	218376	109188	0.00

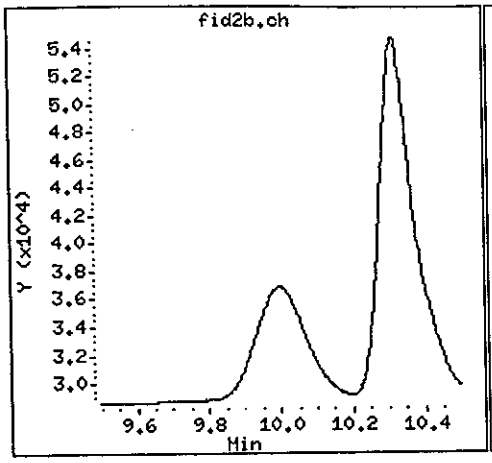
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	15.07	14.57	15.57	15.07	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

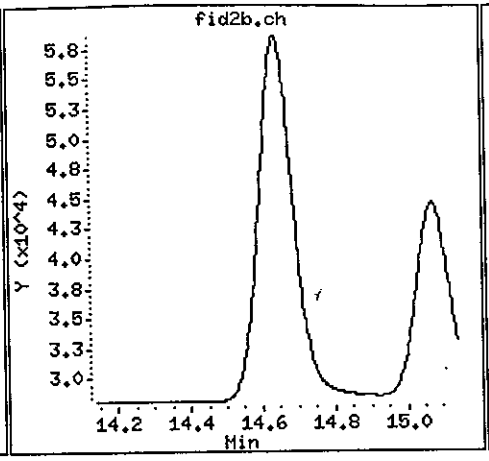
Data File: \\Reinhard\ee\chem\vgc6.i\V6102401a.b\CCV62.D



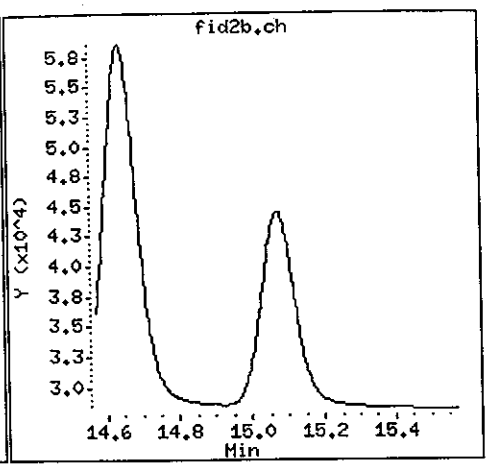
10 MTBE



20 Benzene

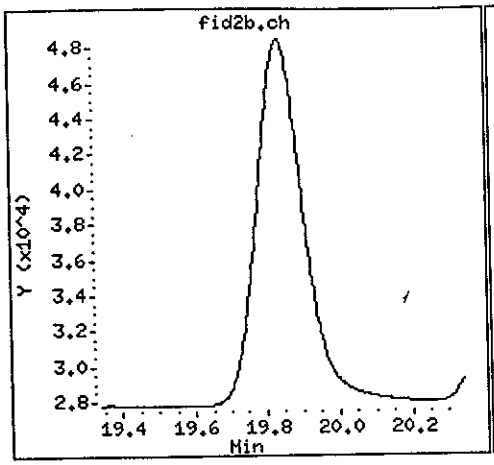


* 21 Fluorobenzene

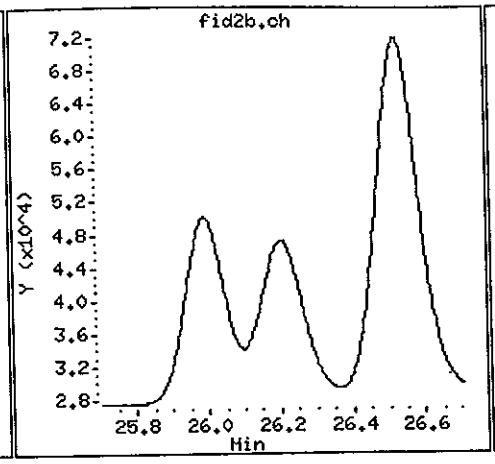


Data File: \\Reinhard\ee\chem\vgc6.i\V6102401a.b\CCV62.D

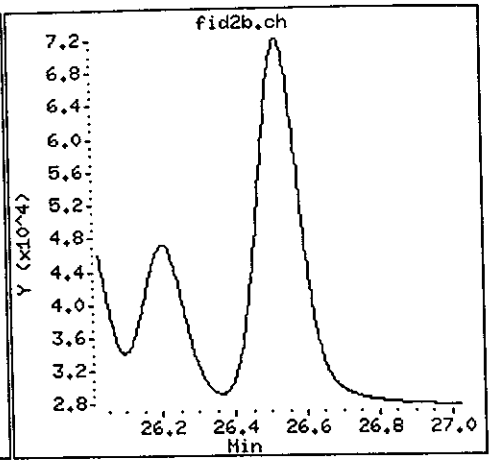
26 Toluene



33 Ethylbenzene

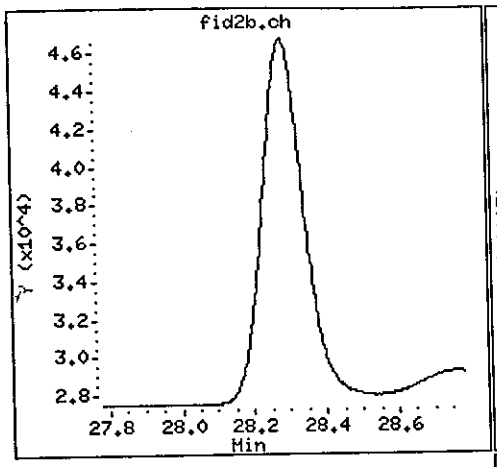


34 m,p-xylene

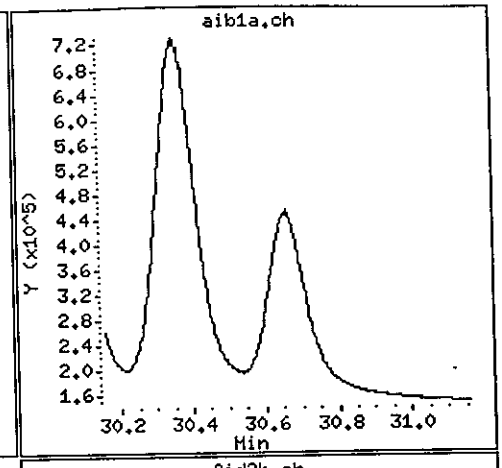


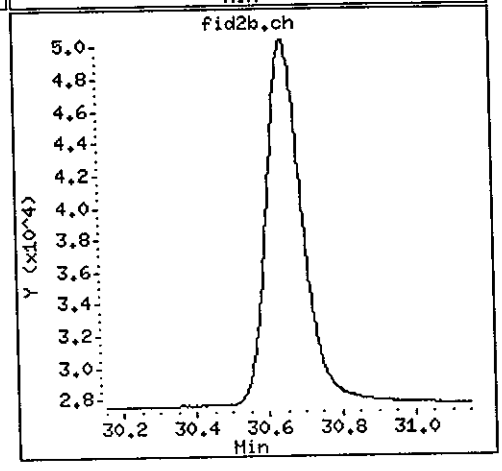
Data File: \\Reinhard\ee\chem\vgc6.i\V6102401a.b\CCV62.D

35 o-xylene



$ 39 4-bromofluorobenzene





PEL Laboratories

Data file : \\REINHARD\ee\chem\vgc6.i\V6102401a.b\LCS62.D
Lab Smp Id: 1024LCS62 Client Smp ID: 1024LCS62
Inj Date : 24-OCT-2001 17:23
Operator : Inst ID: vgc6.i
Smp Info : 1024LCS62
Misc Info :
Comment :
Method : \\REINHARD\ee\chem\vgc6.i\V6102401a.b\8021S.m
Meth Date : 30-Oct-2001 15:15 kavita Quant Type: ISTD
Cal Date : 23-OCT-2001 23:22 Cal File: 500PPT.D
Als bottle: 4 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: cto-062.sub
Target Version: 4.04
Processing Host: REINHARD

Concentration Formula: Amt * DF * 5/(ws*(1-(m/100)))

Name	Value	Description
DF	1.000	Dilution Factor
ws	5.000	weight in grams
m	0.000	

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/kg)
	10 MTBE	FID2B	9.980	9.916	(0.663)	16114	7.31481	7.3
	20 Benzene	FID2B	14.620	14.550	(0.971)	47213	7.79665	7.8(RM)
*	21 Fluorobenzene	FID2B	15.053	14.980	(1.000)	92609	30.0000	
	26 Toluene	FID2B	19.803	19.706	(1.316)	51063	8.94533	8.9(M)
	33 Ethylbenzene	FID2B	26.166	26.070	(1.738)	47341	8.67741	8.7
	34 m,p-xylene	FID2B	26.486	26.390	(1.760)	110345	17.9585	18.0(M)
	35 o-xylene	FID2B	28.250	28.156	(1.877)	44800	9.21151	9.2(M)
$	39 4-bromofluorobenzene	FID2B	30.613	30.530	(2.034)	145633	27.4466	27.4(Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

PEL Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vgc6.i
Lab File ID: LCS62.D
Lab Smp Id: 1024LCS62
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\REINHARD\ee\chem\vgc6.i\V6102401a.b\8021S.m
Misc Info:

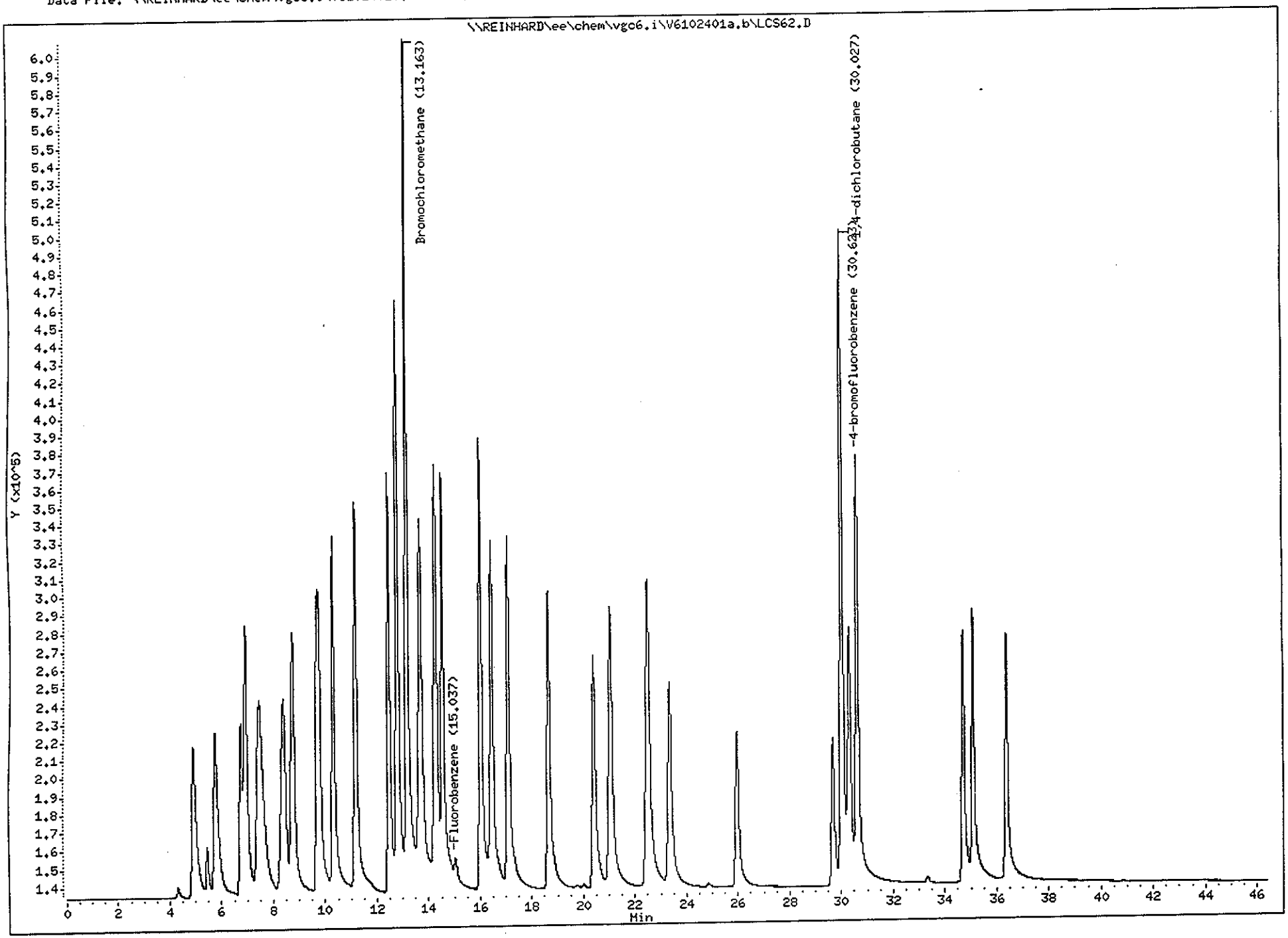
Calibration Date: 25-OCT-2001
Calibration Time: 03:11
Client Smp ID: 1024LCS62
Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	96668	48334	193336	92609	-4.20

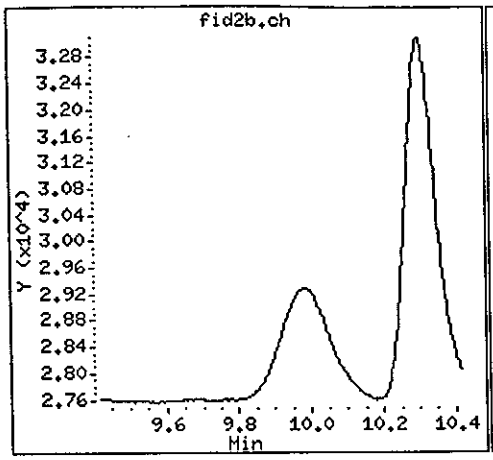
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	14.98	14.48	15.48	15.05	0.49

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

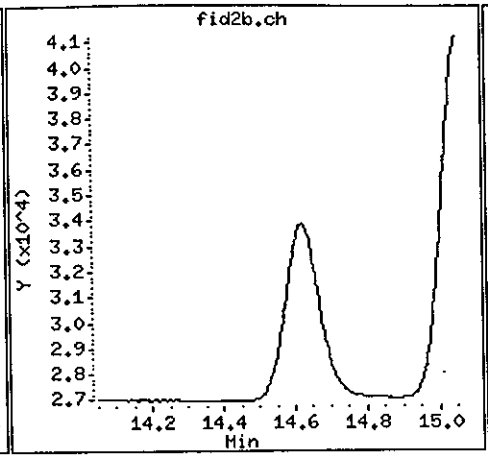
Data File: \\REINHARD\ee\chem\vgc6.i\V6102401a.b\LCS62.D



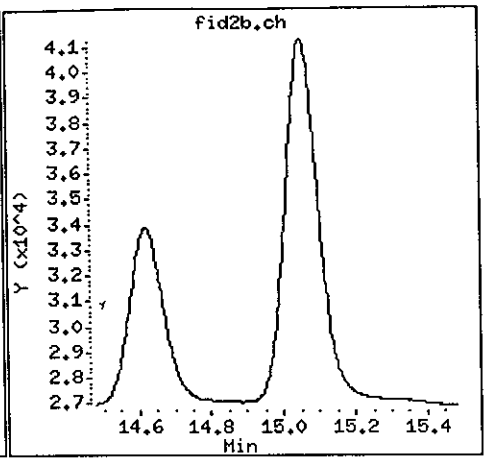
10 MTBE



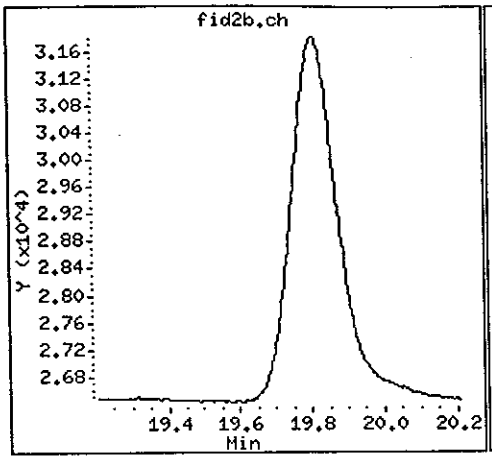
20 Benzene



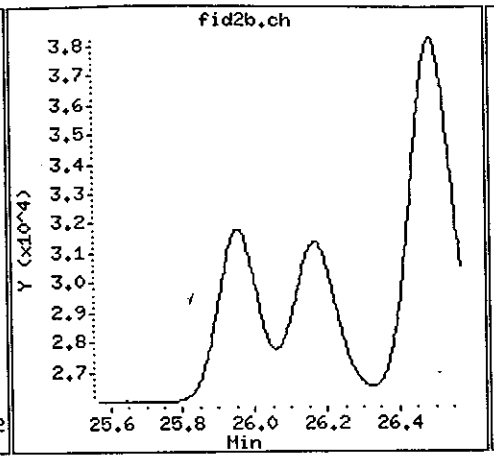
* 21 Fluorobenzene



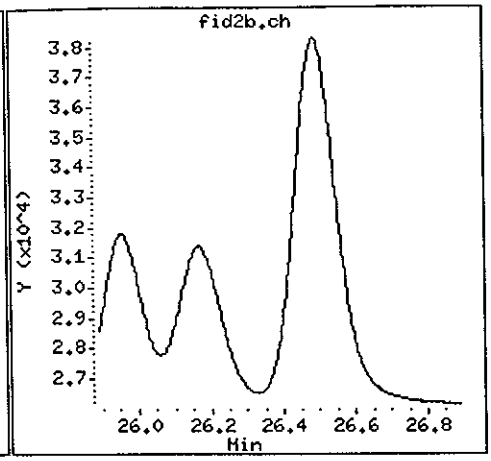
26 Toluene



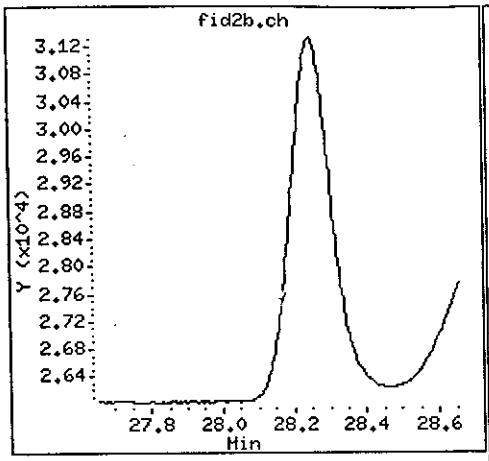
33 Ethylbenzene



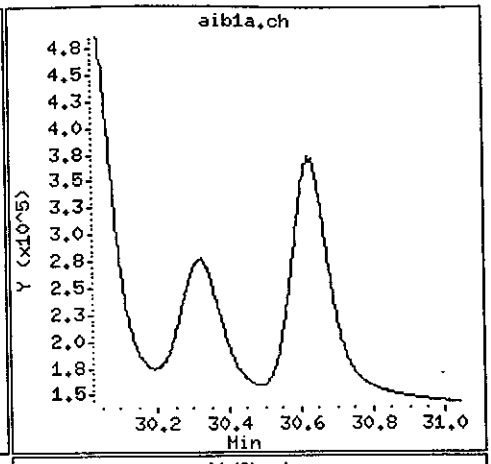
34 m,p-xylene

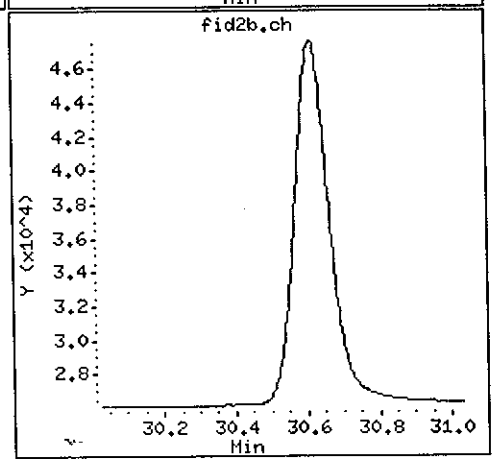


35 o-xylene



$ 39 4-bromofluorobenzene





PEL Laboratories

Data file : \\REINHARD\ee\chem\vgc6.i\V6102401a.b\BLK61.D
Lab Smp Id: 1024BLK61 Client Smp ID: 1024BLK61
Inj Date : 24-OCT-2001 18:17
Operator : Inst ID: vgc6.i
Smp Info : 1024BLK61
Misc Info :
Comment :
Method : \\REINHARD\ee\chem\vgc6.i\V6102401a.b\8021S.m
Meth Date : 30-Oct-2001 15:15 kavita Quant Type: ISTD
Cal Date : 23-OCT-2001 23:22 Cal File: 500PPT.D
Als bottle: 5 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: cto-062.sub
Target Version: 4.04
Processing Host: REINHARD

Concentration Formula: Amt * DF * 5/(ws*(1-(m/100)))

Name	Value	Description
DF	1.000	Dilution Factor
ws	5.000	weight in grams
m	0.000	

Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/kg)
* 21 Fluorobenzene	FID2B	15.033	14.980	(1.000)	93995	30.0000	
$ 39 4-bromofluorobenzene	FID2B	30.593	30.530	(2.035)	144110	26.7591	26.8(Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.

PEL Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vgc6.i
Lab File ID: BLK61.D
Lab Smp Id: 1024BLK61
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\REINHARD\ee\chem\vgc6.i\V6102401a.b\8021S.m
Misc Info:

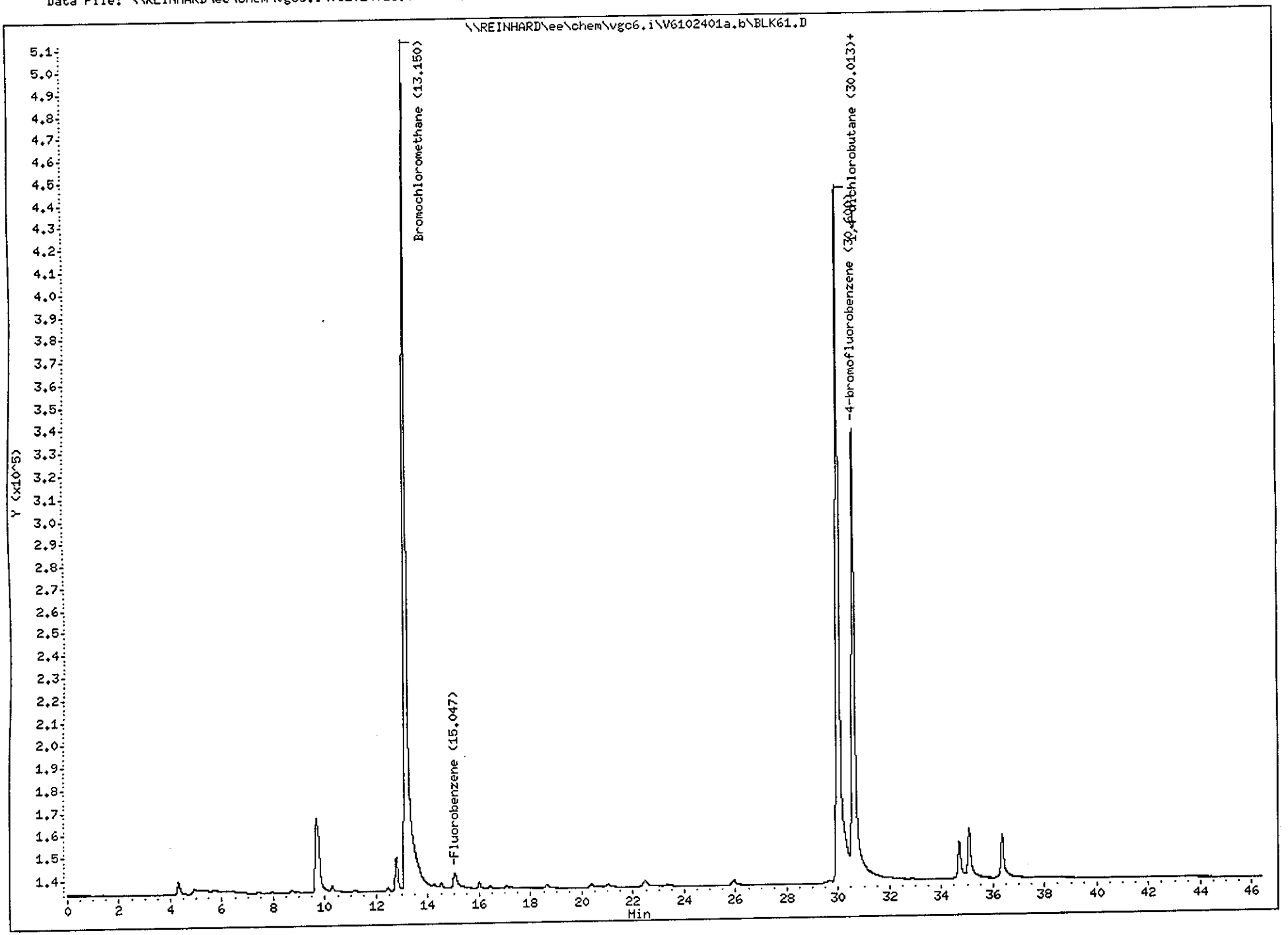
Calibration Date: 25-OCT-2001
Calibration Time: 03:11
Client Smp ID: 1024BLK61
Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	96668	48334	193336	93995	-2.77

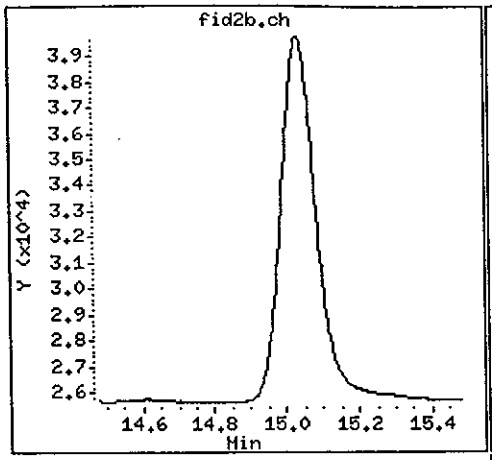
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	14.98	14.48	15.48	15.03	0.36

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

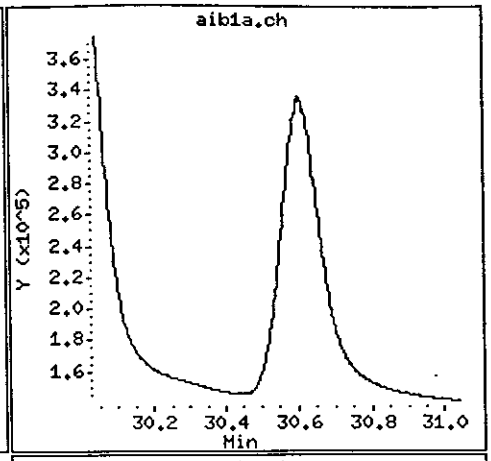
Data File: \\REINHARD\ee\chem\vgc6.i\V6102401a.b\BLK61.D

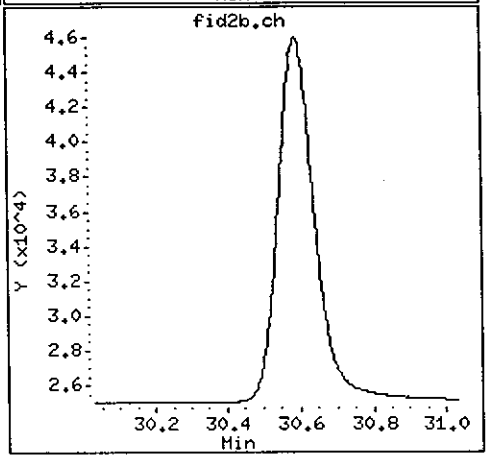


* 21 Fluorobenzene



$ 39 4-bromofluorobenzene





PEL Laboratories

Data file : \\REINHARD\ee\chem\vgc6.i\V6102401a.b\BLK61S.D
Lab Smp Id: 1024BLK61MS Client Smp ID: 1024BLK61MS
Inj Date : 24-OCT-2001 19:11
Operator : Inst ID: vgc6.i
Smp Info : 1024BLK61MS
Misc Info :
Comment :
Method : \\REINHARD\ee\chem\vgc6.i\V6102401a.b\8021S.m
Meth Date : 30-Oct-2001 15:15 kavita Quant Type: ISTD
Cal Date : 23-OCT-2001 23:22 Cal File: 500PPT.D
Als bottle: 6 QC Sample: MS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: cto-062.sub
Target Version: 4.04
Processing Host: REINHARD

Concentration Formula: Amt * DF * 5/(ws*(1-(m/100)))

Name	Value	Description
DF	1.000	Dilution Factor
ws	5.000	weight in grams
m	0.000	

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/kg)
	10 MTBE	FID2B	9.953	9.916	(0.663)	15849	7.08730	7.1
	20 Benzene	FID2B	14.590	14.550	(0.971)	48425	7.87763	7.9(RM)
*	21 Fluorobenzene	FID2B	15.020	14.980	(1.000)	94010	30.0000	
	26 Toluene	FID2B	19.763	19.706	(1.316)	47915	8.26876	8.3
	33 Ethylbenzene	FID2B	26.123	26.070	(1.739)	47275	8.53618	8.5
	34 m,p-xylene	FID2B	26.446	26.390	(1.761)	103044	16.5204	16.5
	35 o-xylene	FID2B	28.210	28.156	(1.878)	42425	8.59318	8.6
$	39 4-bromofluorobenzene	FID2B	30.580	30.530	(2.036)	144105	26.7539	26.8(Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

PEL Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vgc6.i
Lab File ID: BLK61S.D
Lab Smp Id: 1024BLK61MS
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\REINHARD\ee\chem\vgc6.i\V6102401a.b\8021S.m
Misc Info:

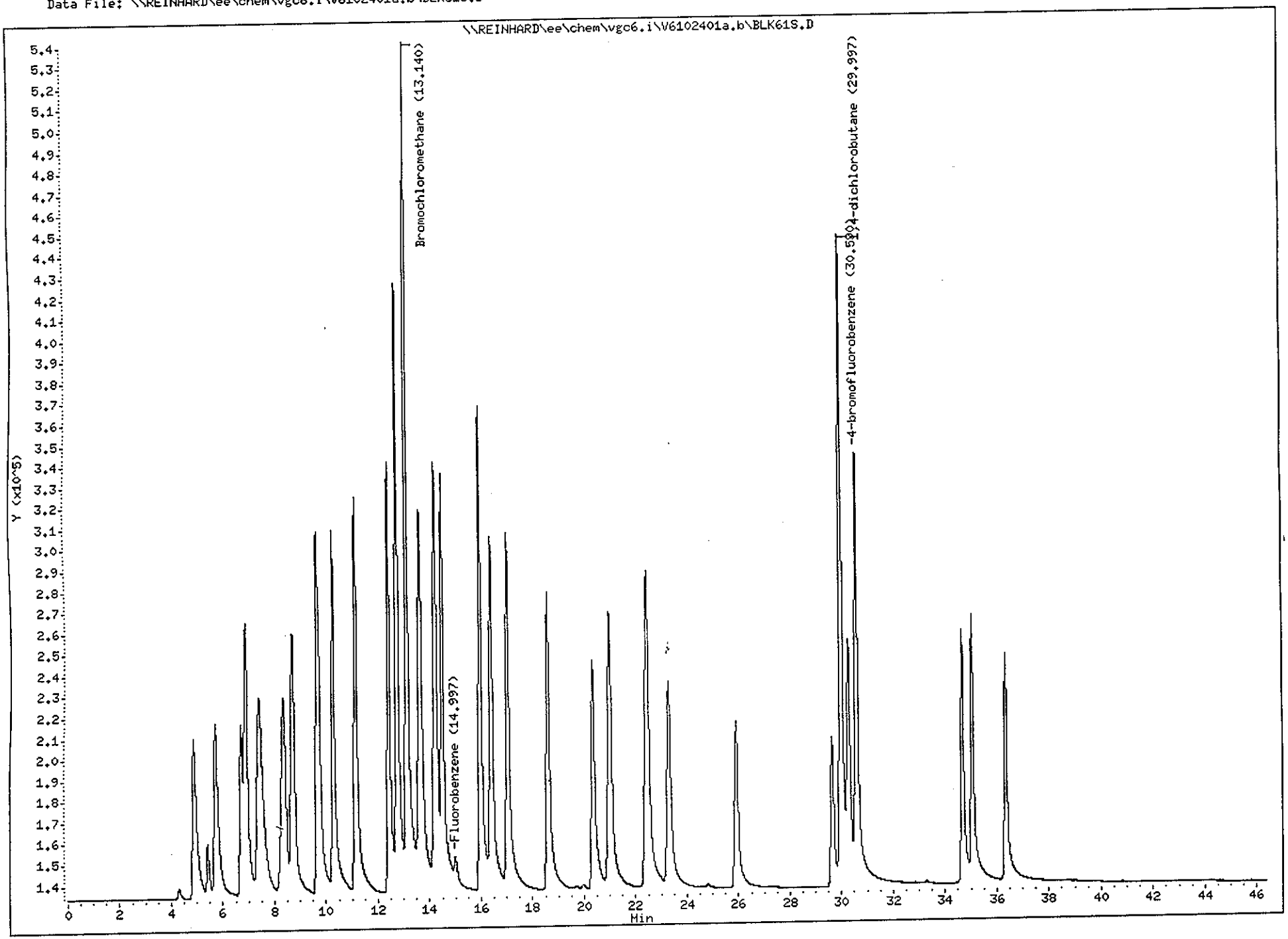
Calibration Date: 25-OCT-2001
Calibration Time: 03:11
Client Smp ID: 1024BLK61MS
Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	96668	48334	193336	94010	-2.75

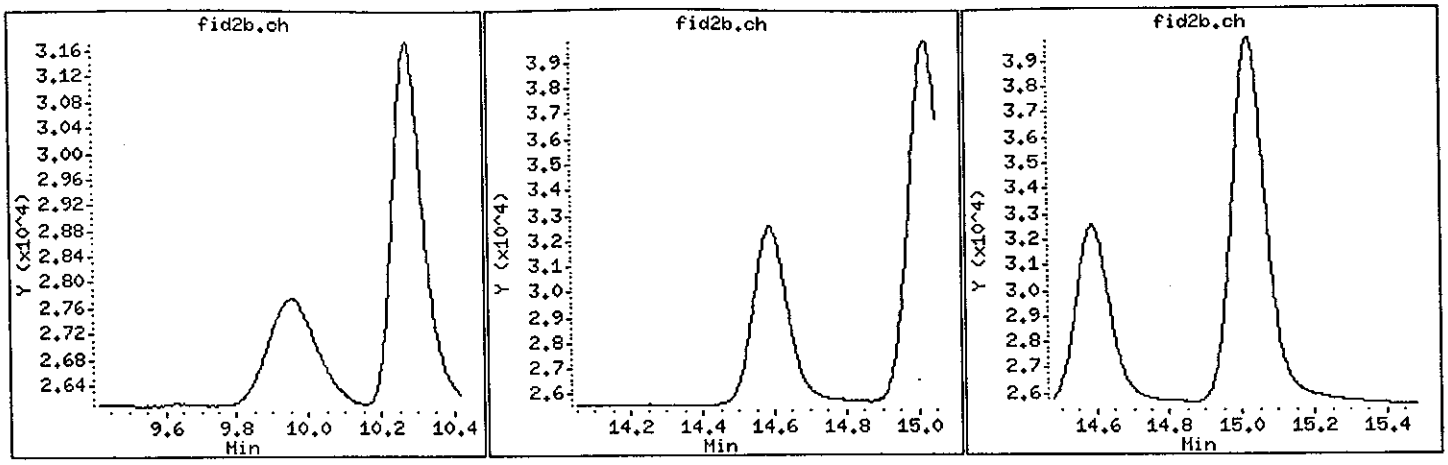
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	14.98	14.48	15.48	15.02	0.27

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

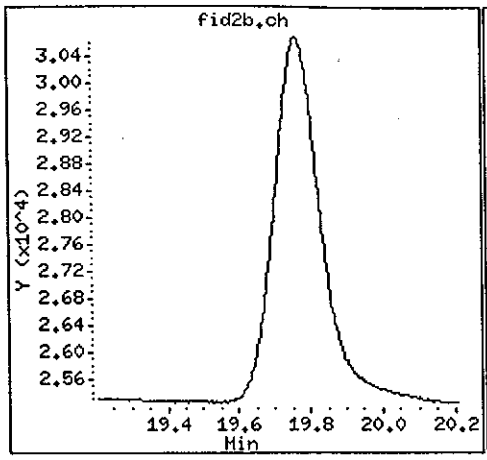
Data File: \\REINHARD\ee\chem\vgc6.i\V6102401a.b\BLK61S.D



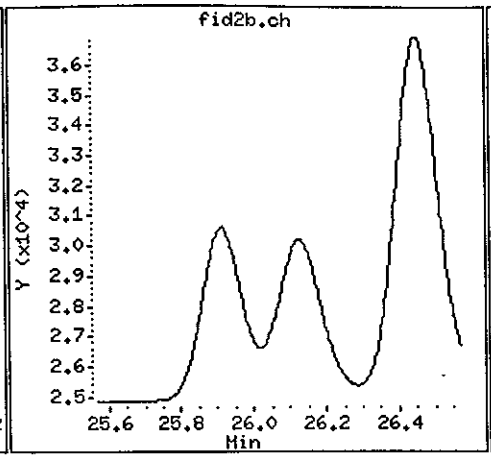
10 MTBE 20 Benzene * 21 Fluorobenzene



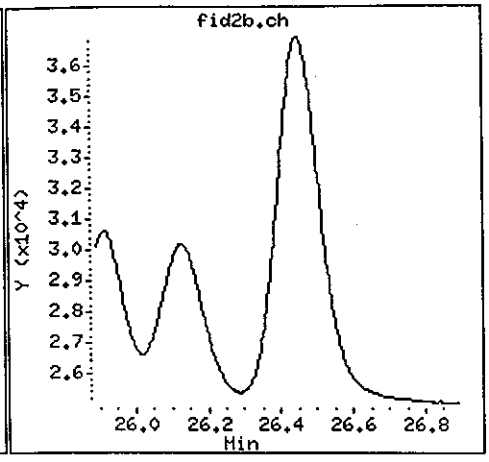
26 Toluene



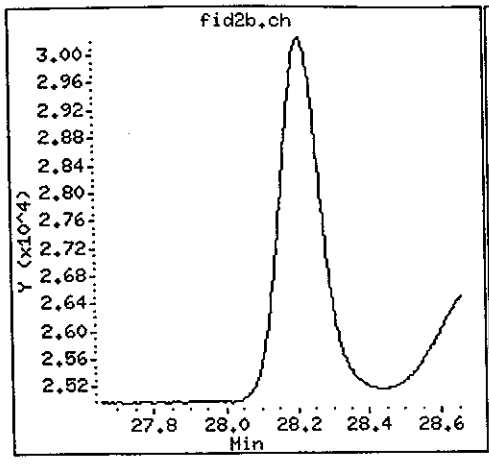
33 Ethylbenzene



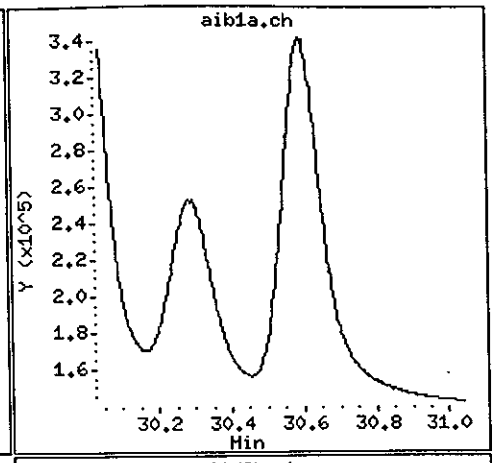
34 m,p-xylene

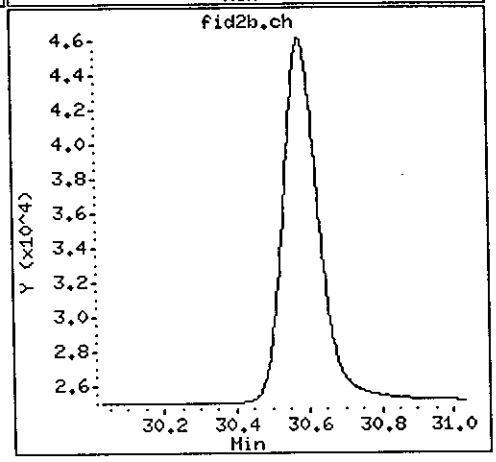


35 o-xylene



$ 39 4-bromofluorobenzene





PEL Laboratories

Data file : \\REINHARD\ee\chem\vgc6.i\V6102401a.b\BLK61D.D
Lab Smp Id: 1024BLK61SD Client Smp ID: 1024BLK61SD
Inj Date : 24-OCT-2001 20:04
Operator : Inst ID: vgc6.i
Smp Info : 1024BLK61MSD
Misc Info :
Comment :
Method : \\REINHARD\ee\chem\vgc6.i\V6102401a.b\8021S.m
Meth Date : 30-Oct-2001 15:15 kavita Quant Type: ISTD
Cal Date : 23-OCT-2001 23:22 Cal File: 500PPT.D
Als bottle: 7 QC Sample: MSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: cto-062.sub
Target Version: 4.04
Processing Host: REINHARD

Concentration Formula: Amt * DF * 5/(ws*(1-(m/100)))

Name	Value	Description
DF	1.000	Dilution Factor
ws	5.000	weight in grams
m	0.000	

Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/kg)
10 MTBE	FID2B	9.946	9.916	(0.663)	15492	6.95213	7.0
20 Benzene	FID2B	14.580	14.550	(0.971)	46977	7.66907	7.7(RM)
* 21 Fluorobenzene	FID2B	15.013	14.980	(1.000)	93679	30.0000	
26 Toluene	FID2B	19.750	19.706	(1.315)	48596	8.41591	8.4(M)
33 Ethylbenzene	FID2B	26.113	26.070	(1.739)	45290	8.20665	8.2
34 m,p-xylene	FID2B	26.436	26.390	(1.761)	107562	17.3057	17.3(M)
35 o-xylene	FID2B	28.200	28.156	(1.878)	41157	8.36580	8.4
$ 39 4-bromofluorobenzene	FID2B	30.566	30.530	(2.036)	138831	25.8658	25.9(Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

PEL Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vgc6.i
Lab File ID: BLK61D.D
Lab Smp Id: 1024BLK61SD
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\REINHARD\ee\chem\vgc6.i\V6102401a.b\8021S.m
Misc Info:

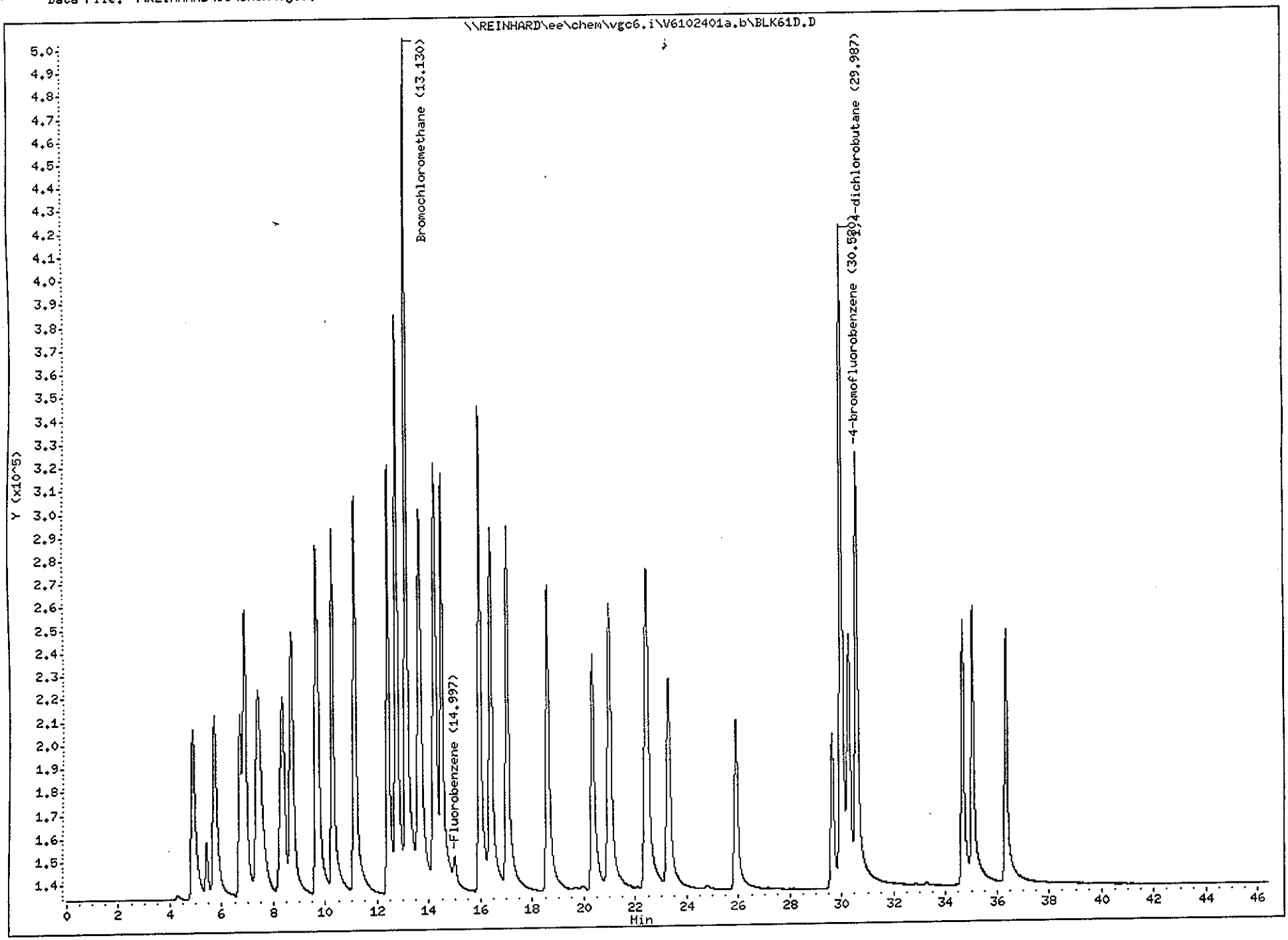
Calibration Date: 25-OCT-2001
Calibration Time: 03:11
Client Smp ID: 1024BLK61SD
Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	96668	48334	193336	93679	-3.09

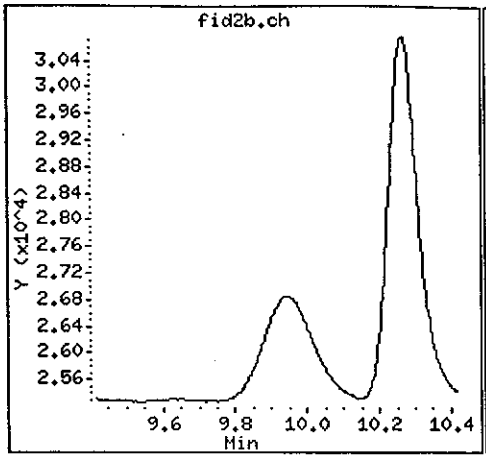
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	14.98	14.48	15.48	15.01	0.22

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

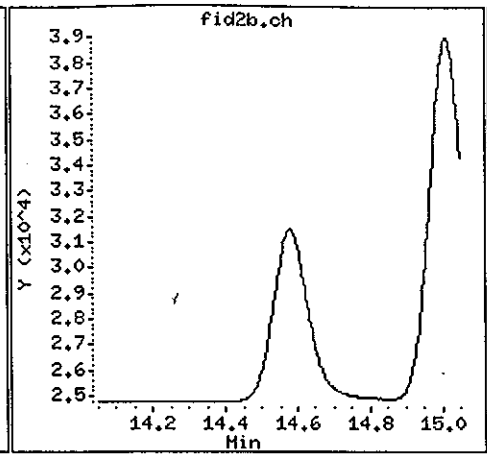
Data File: \\REINHARD\ee\chem\vgc6.i\V6102401a.b\BLK61D.D



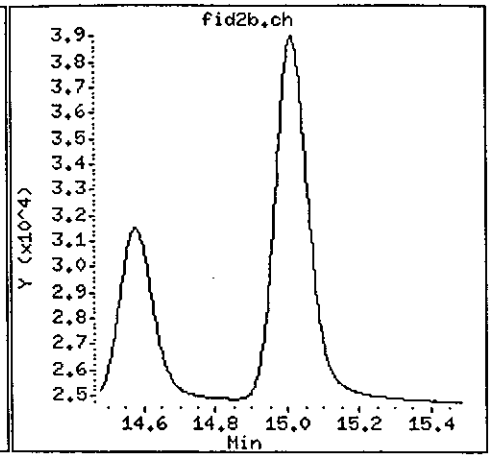
10 MTBE



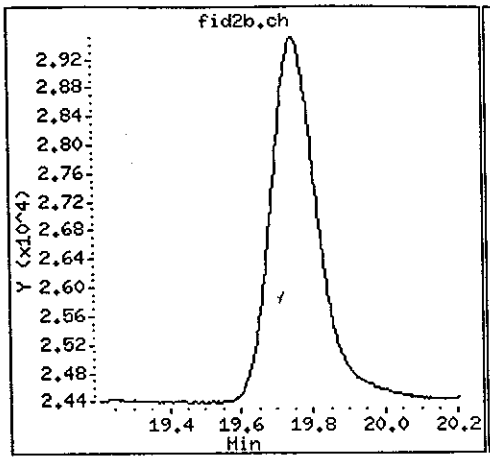
20 Benzene



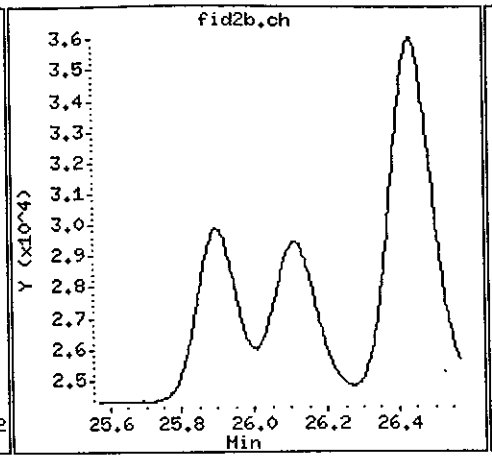
× 21 Fluorobenzene



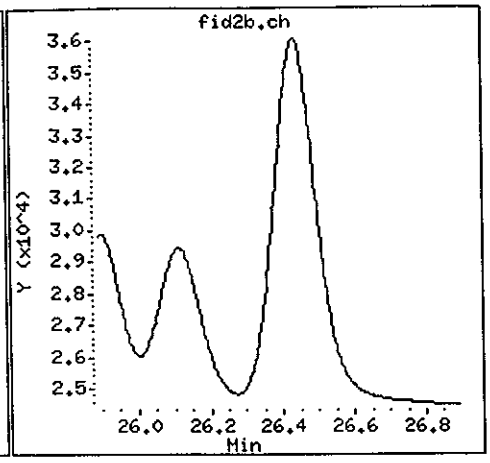
26 Toluene



33 Ethylbenzene

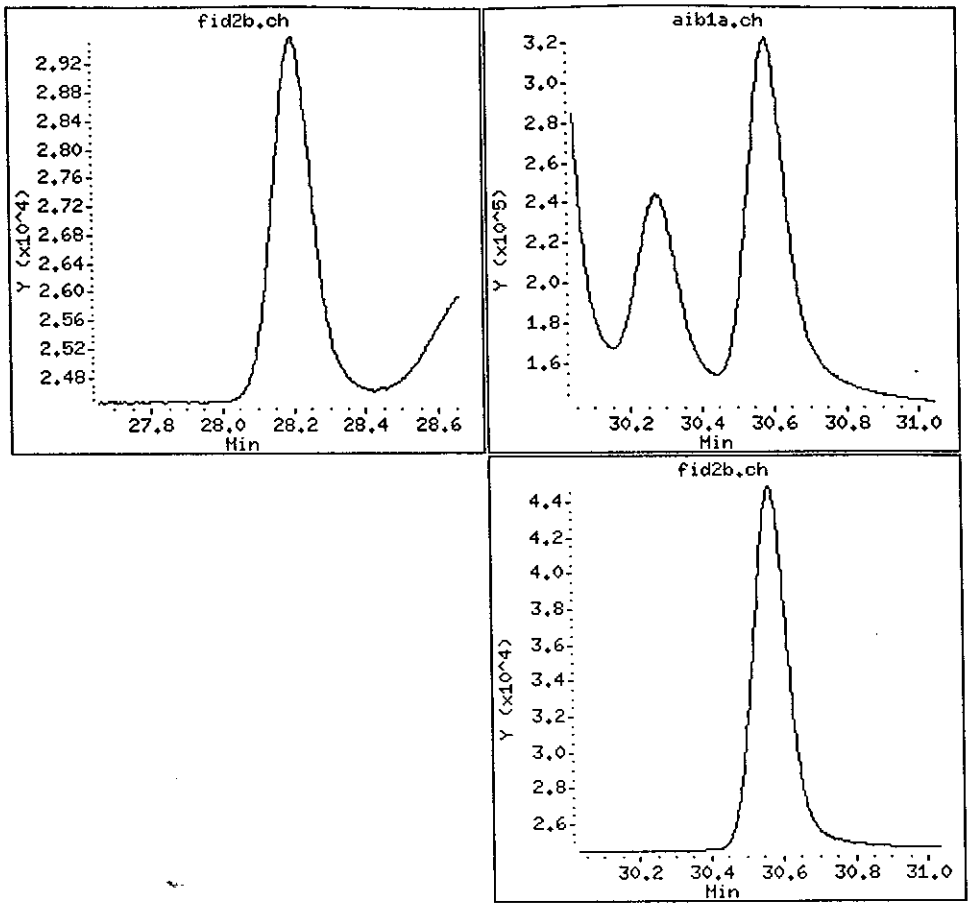


34 m,p-xylene



35 o-xylene

$ 39 4-bromofluorobenzene



PEL Laboratories

Data file : \\REINHARD\ee\chem\vgc6.i\V6102401a.b\94-1.D
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Inj Date : 24-OCT-2001 20:58
Operator : Inst ID: vgc6.i
Smp Info : 211009401
Misc Info :
Comment :
Method : \\REINHARD\ee\chem\vgc6.i\V6102401a.b\8021S.m
Meth Date : 30-Oct-2001 15:15 kavita Quant Type: ISTD
Cal Date : 23-OCT-2001 23:22 Cal File: 500PPT.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: cto-062.sub
Target Version: 4.04
Processing Host: REINHARD

Concentration Formula: Amt * DF * 5/(ws*(1-(m/100)))

Name	Value	Description
DF	1.000	Dilution Factor
ws	5.602	weight in grams
m	15.500	

Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/kg)
* 21 Fluorobenzene	FID2B	15.003	14.980	(1.000)	100180	30.0000	
$ 39 4-bromofluorobenzene	FID2B	30.556	30.530	(2.037)	107722	18.7675	19.8(QR)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

PEL Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

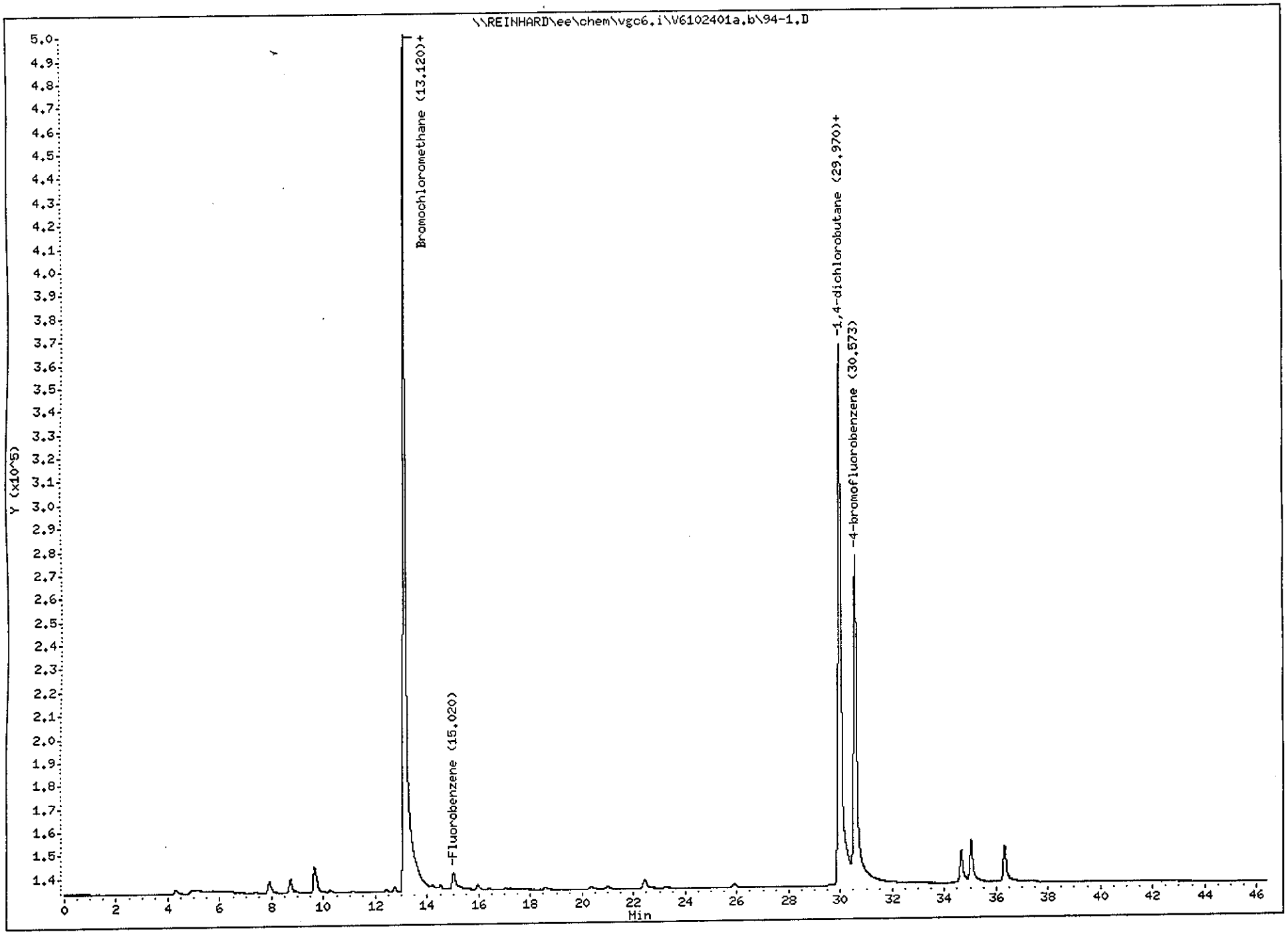
Instrument ID: vgc6.i
Lab File ID: 94-1.D
Lab Smp Id: 211009401
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\REINHARD\ee\chem\vgc6.i\V6102401a.b\8021S.m
Misc Info:

Calibration Date: 25-OCT-2001
Calibration Time: 03:11
Client Smp ID: 062B7S101801
Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	96668	48334	193336	100180	3.63

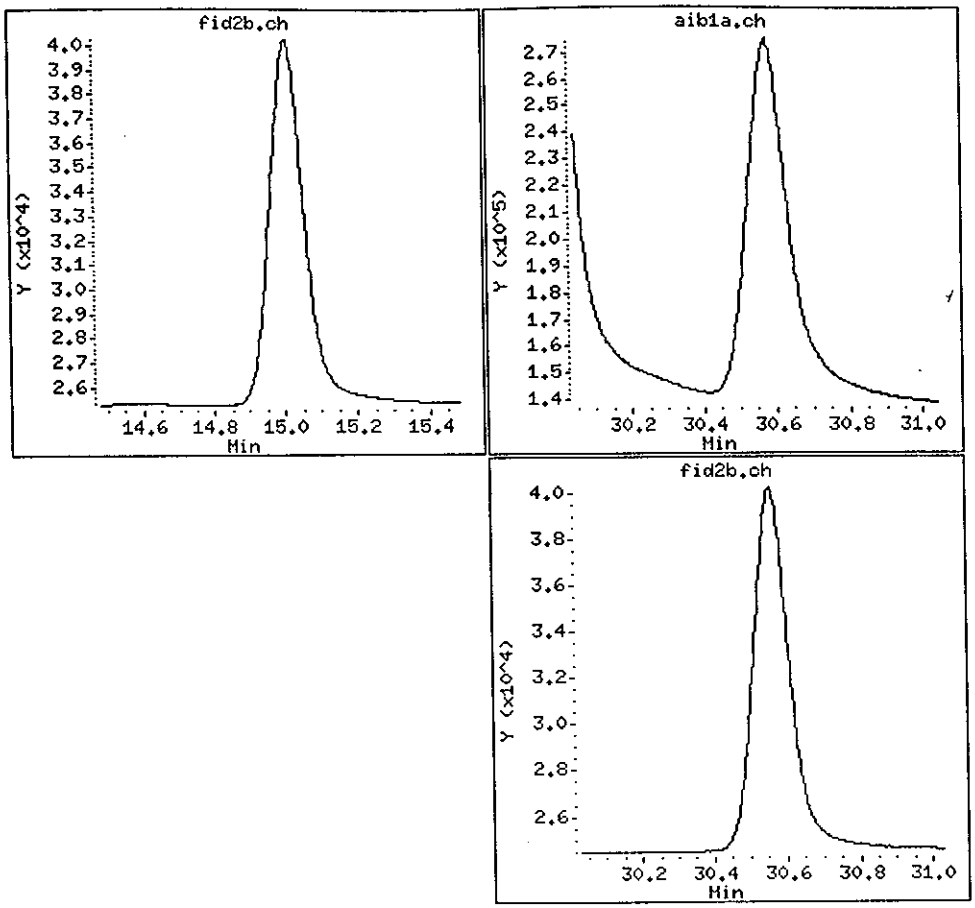
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	14.98	14.48	15.48	15.00	0.16

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.


\\REINHARD\ee\chem\vgc6.i\V6102401a.b\94-1.D
Y (x10^5)
Min
Bromochloromethane (13.120)+
Fluorobenzene (15.020)
1,4-dichlorobutane (29.970)+
4-bromofluorobenzene (30.573)

× 21 Fluorobenzene

$ 39 4-bromofluorobenzene



PEL Laboratories

Data file : \\REINHARD\ee\chem\vgc6.i\V6102401a.b\94-2.D
Lab Smp Id: 211009402 Client Smp ID: 062B31S101801
Inj Date : 24-OCT-2001 21:51
Operator : Inst ID: vgc6.i
Smp Info : 211009402
Misc Info :
Comment :
Method : \\REINHARD\ee\chem\vgc6.i\V6102401a.b\8021S.m
Meth Date : 30-Oct-2001 15:15 kavita Quant Type: ISTD
Cal Date : 23-OCT-2001 23:22 Cal File: 500PPT.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: cto-062.sub
Target Version: 4.04
Processing Host: REINHARD

Concentration Formula: Amt * DF * 5/(ws*(1-(m/100)))

Name	Value	Description
DF	1.000	Dilution Factor
ws	5.415	weight in grams
m	17.000	

Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/kg)
* 21 Fluorobenzene	FID2B	15.003	14.980	(1.000)	99625	30.0000	
$ 39 4-bromofluorobenzene	FID2B	30.556	30.530	(2.037)	90724	15.8941	17.7(QR)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

PEL Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vgc6.i
Lab File ID: 94-2.D
Lab Smp Id: 211009402
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\REINHARD\ee\chem\vgc6.i\V6102401a.b\8021S.m
Misc Info:

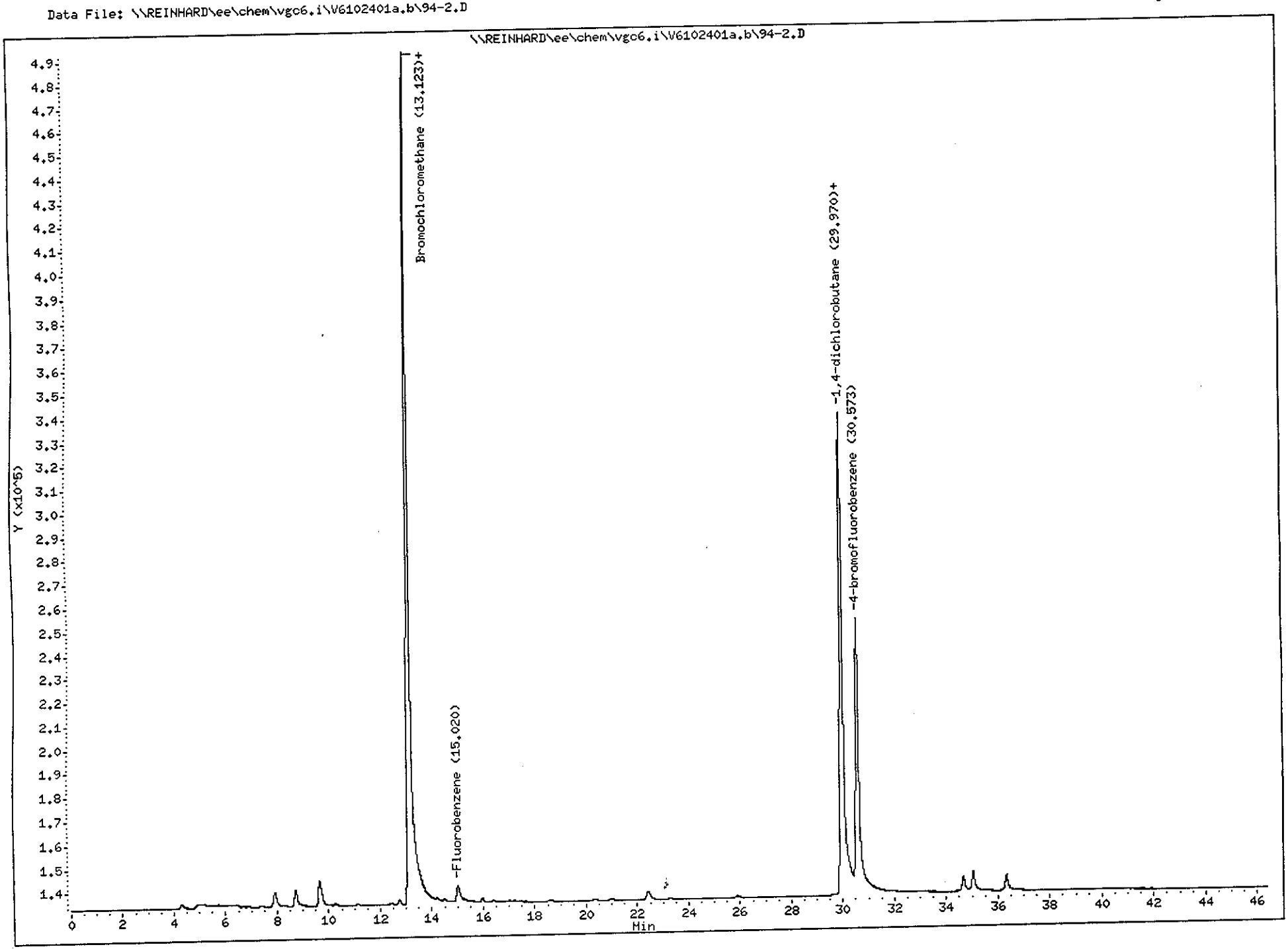
Calibration Date: 25-OCT-2001
Calibration Time: 03:11
Client Smp ID: 062B31S101801
Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	96668	48334	193336	99625	3.06

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	14.98	14.48	15.48	15.00	0.16

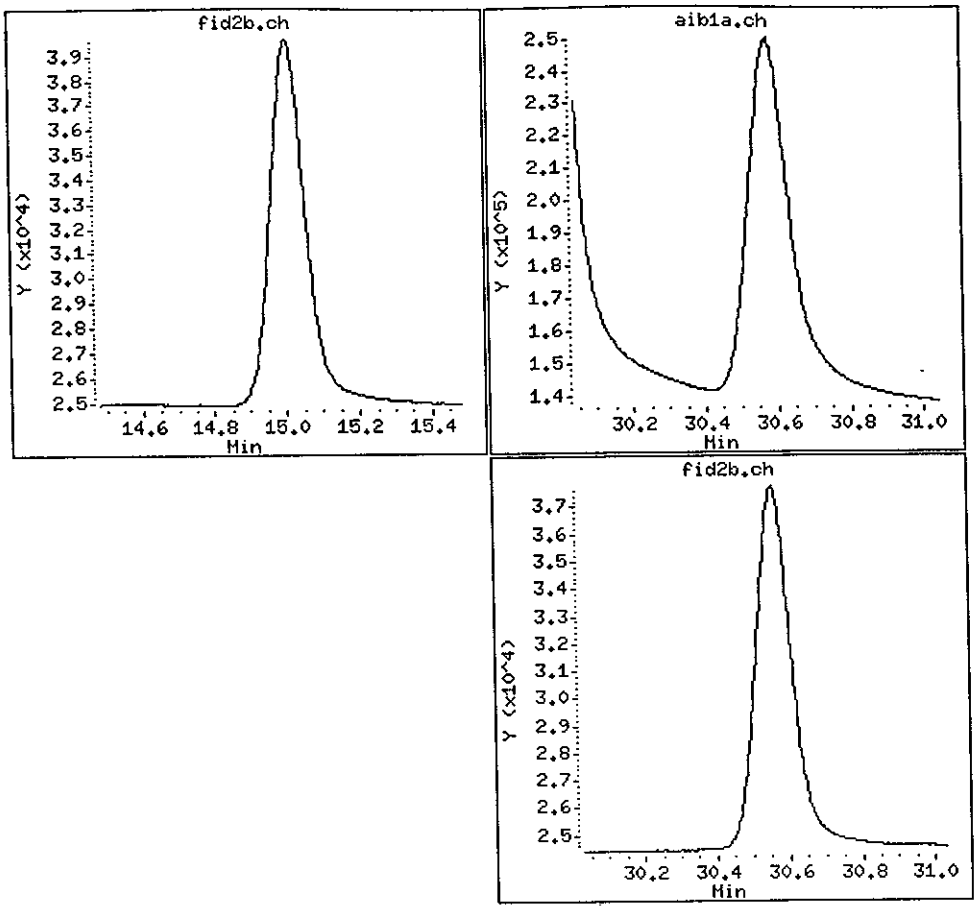
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\REINHARD\ee\chem\vgc6.i\V6102401a.b\94-2.D



× 21 Fluorobenzene

$ 39 4-bromofluorobenzene



PEL Laboratories

Data file : \\REINHARD\ee\chem\vgc6.i\V6102401a.b\94-3.D
Lab Smp Id: 211009403 Client Smp ID: 062B41S101801
Inj Date : 24-OCT-2001 22:45
Operator : Inst ID: vgc6.i
Smp Info : 211009403
Misc Info :
Comment :
Method : \\REINHARD\ee\chem\vgc6.i\V6102401a.b\8021S.m
Meth Date : 30-Oct-2001 15:15 kavita Quant Type: ISTD
Cal Date : 23-OCT-2001 23:22 Cal File: 500PPT.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: cto-062.sub
Target Version: 4.04
Processing Host: REINHARD

Concentration Formula: Amt * DF * 5/(ws*(1-(m/100)))

Name	Value	Description
DF	1.000	Dilution Factor
ws	5.360	weight in grams
m	13.300	

Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/kg)
* 21 Fluorobenzene	FID2B	14.996	14.980	(1.000)	99102	30.0000	
$ 39 4-bromofluorobenzene	FID2B	30.546	30.530	(2.037)	85089	14.9856	16.1(QR)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

PEL Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vgc6.i
Lab File ID: 94-3.D
Lab Smp Id: 211009403
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\REINHARD\ee\chem\vgc6.i\V6102401a.b\8021S.m
Misc Info:

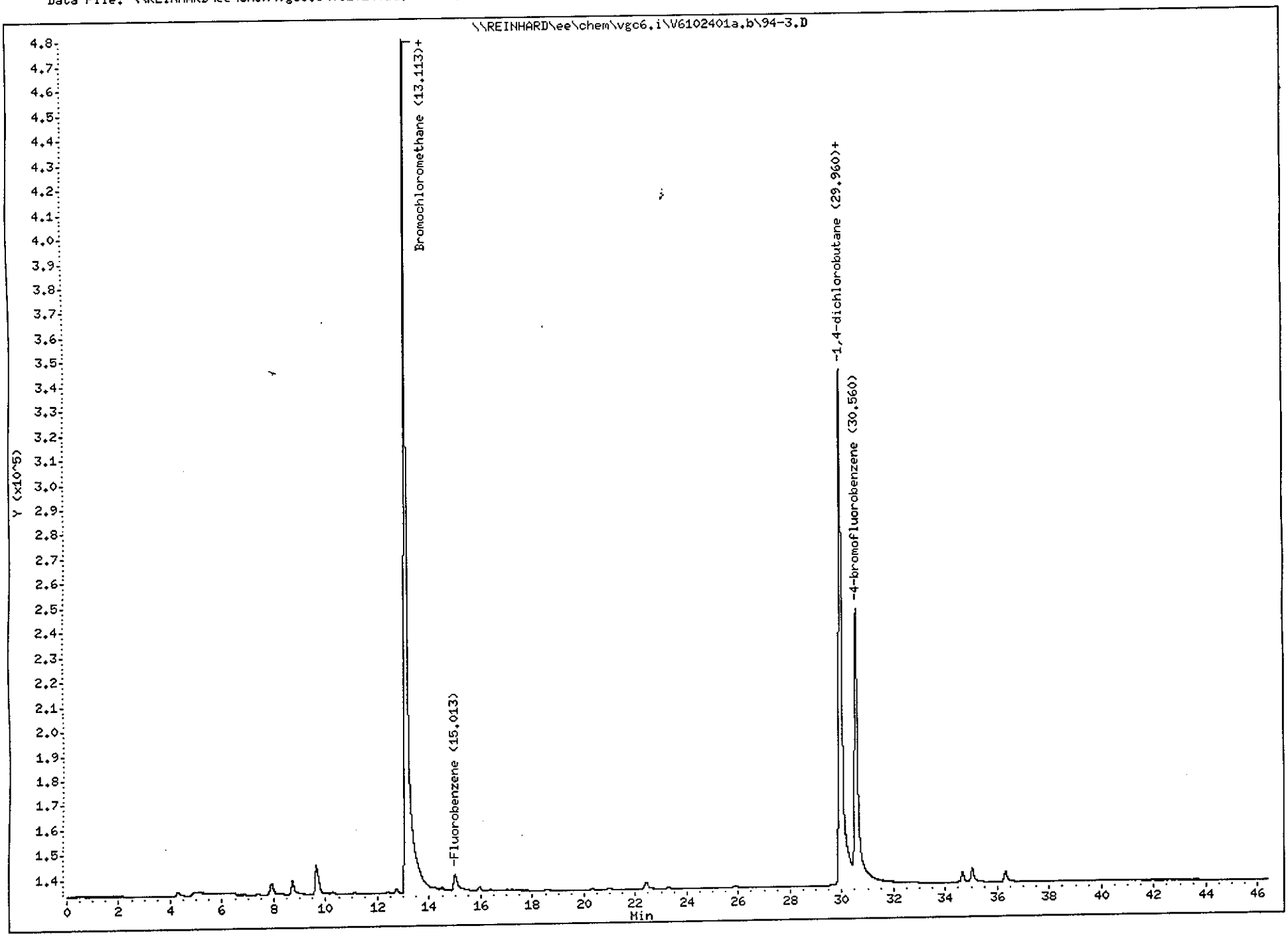
Calibration Date: 25-OCT-2001
Calibration Time: 03:11
Client Smp ID: 062B41S101801
Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	96668	48334	193336	99102	2.52

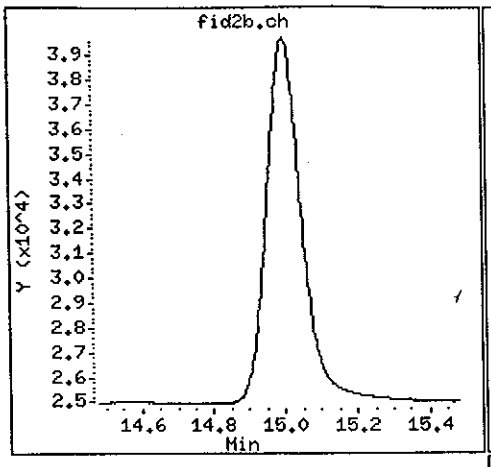
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	14.98	14.48	15.48	15.00	0.11

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

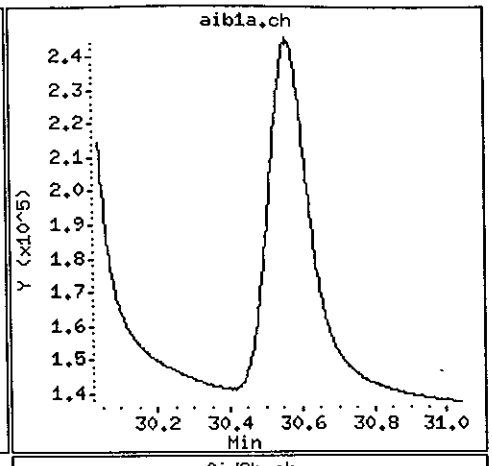
Data File: \\REINHARD\ee\chem\vgc6.i\V6102401a.b\94-3.D

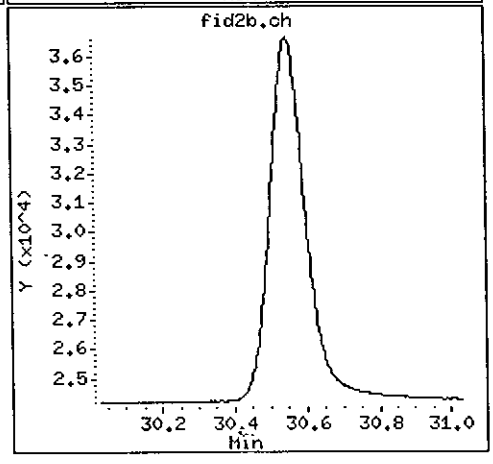


× 21 Fluorobenzene



$ 39 4-bromofluorobenzene





PEL Laboratories

Data file : \\REINHARD\ee\chem\vgc6.i\V6102401a.b\94-4.D
Lab Smp Id: 211009404 Client Smp ID: 062B70S101801
Inj Date : 24-OCT-2001 23:38
Operator : Inst ID: vgc6.i
Smp Info : 211009404
Misc Info :
Comment :
Method : \\REINHARD\ee\chem\vgc6.i\V6102401a.b\8021S.m
Meth Date : 30-Oct-2001 15:15 kavita Quant Type: ISTD
Cal Date : 23-OCT-2001 23:22 Cal File: 500PPT.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: cto-062.sub
Target Version: 4.04
Processing Host: REINHARD

Concentration Formula: Amt * DF * 5/(ws*(1-(m/100)))

Name	Value	Description
DF	1.000	Dilution Factor
ws	4.773	weight in grams
m	11.000	

Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/kg)
* 21 Fluorobenzene	FID2B	14.993	14.980	(1.000)	96842	30.0000	
$ 39 4-bromofluorobenzene	FID2B	30.543	30.530	(2.037)	47205	8.50758	10.0(QR)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

PEL Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vgc6.i
Lab File ID: 94-4.D
Lab Smp Id: 211009404
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\REINHARD\ee\chem\vgc6.i\V6102401a.b\8021S.m
Misc Info:

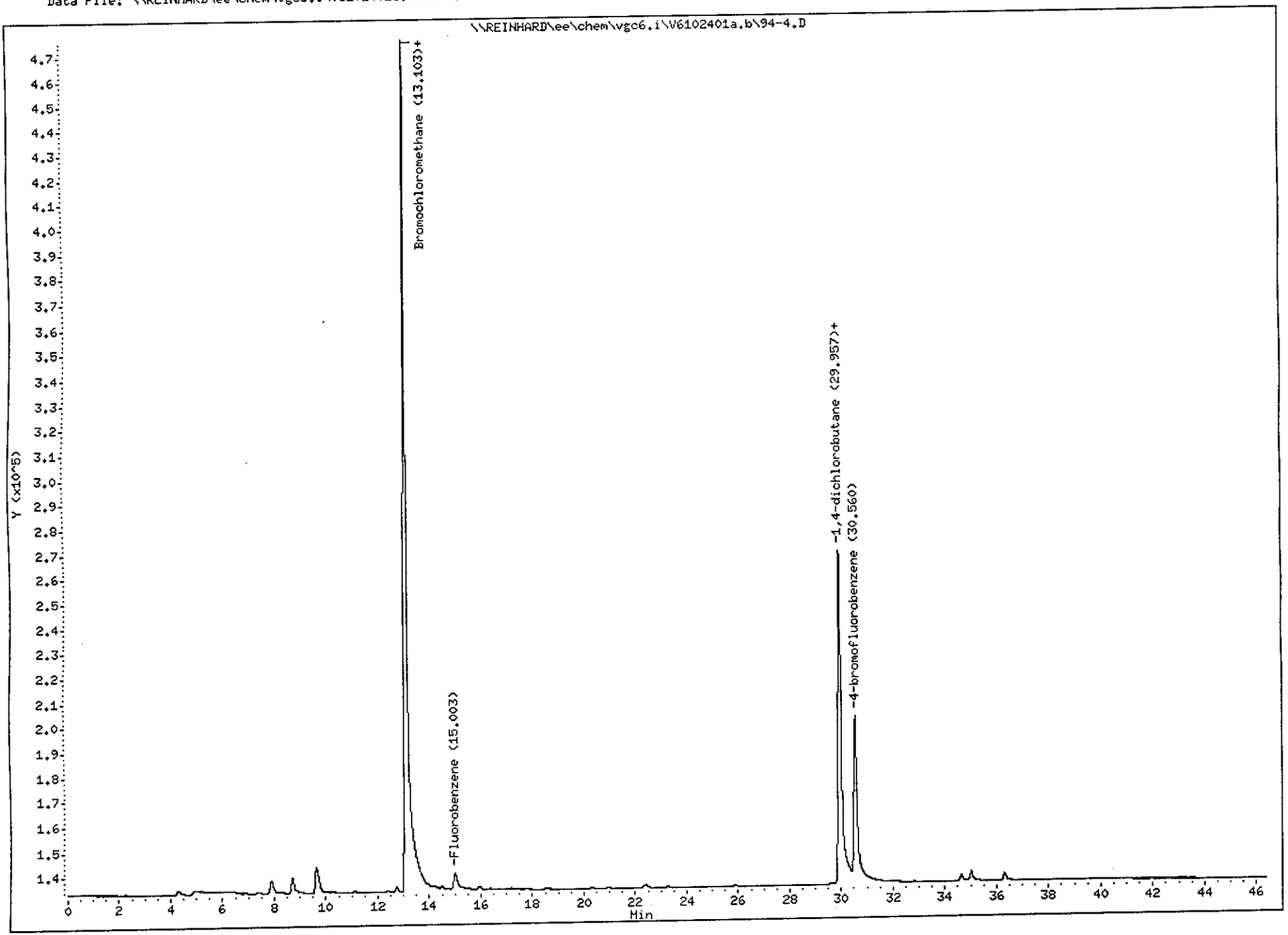
Calibration Date: 25-OCT-2001
Calibration Time: 03:11
Client Smp ID: 062B70S101801
Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	96668	48334	193336	96842	0.18

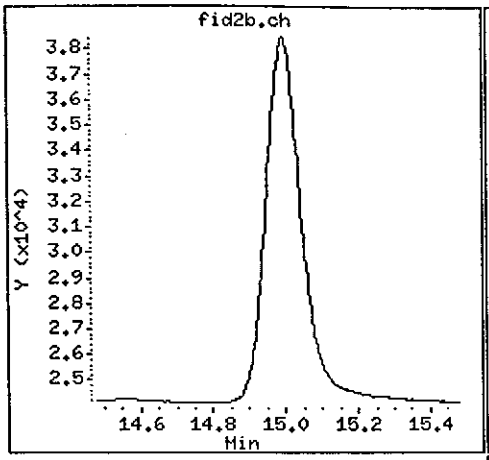
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	14.98	14.48	15.48	14.99	0.09

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

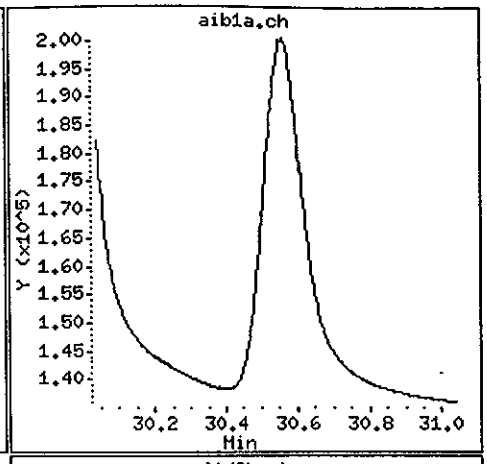
Data File: \\REINHARD\ee\chem\vgc6.i\V6102401a.b\94-4.D

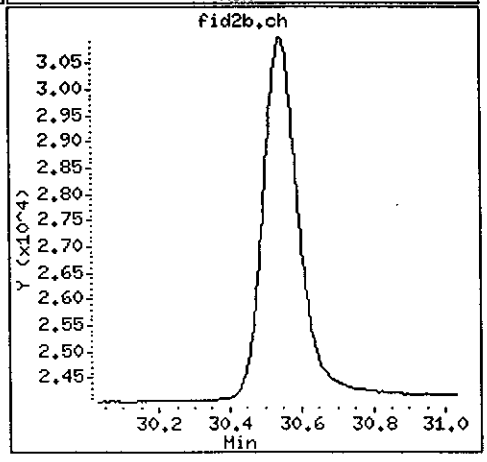


× 21 Fluorobenzene



$ 39 4-bromofluorobenzene





PEL Laboratories

Data file : \\REINHARD\ee\chem\vgc6.i\V6102401a.b\CCV63.D
Lab Smp Id: 1024CCV63 Client Smp ID: 1024CCV63
Inj Date : 25-OCT-2001 03:11
Operator : Inst ID: vgc6.i
Smp Info : 1024CCV63
Misc Info :
Comment :
Method : \\REINHARD\ee\chem\vgc6.i\V6102401a.b\8021S.m
Meth Date : 30-Oct-2001 15:15 kavita Quant Type: ISTD
Cal Date : 23-OCT-2001 23:22 Cal File: 500PPT.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: cto-062.sub
Target Version: 4.04
Processing Host: REINHARD

Concentration Formula: Amt * DF * 5/(ws*(1-(m/100)))

Name	Value	Description
DF	1.000	Dilution Factor
ws	5.000	weight in grams
m	0.000	

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/kg)
	10 MTBE	FID2B	9.916	9.916	(0.662)	59172	25.7328	25.7(M)
	20 Benzene	FID2B	14.550	14.550	(0.971)	191588	30.3100	30.3
*	21 Fluorobenzene	FID2B	14.980	14.980	(1.000)	96668	30.0000	
	26 Toluene	FID2B	19.706	19.706	(1.316)	173036	29.0400	29.0
	33 Ethylbenzene	FID2B	26.070	26.070	(1.740)	158805	27.8861	27.9
	34 m,p-xylene	FID2B	26.390	26.390	(1.762)	346363	54.0033	54.0
	35 o-xylene	FID2B	28.156	28.156	(1.880)	142337	28.0376	28.0
$	39 4-bromofluorobenzene	FID2B	30.530	30.530	(2.038)	143385	25.8883	25.9(M)

QC Flag Legend

M - Compound response manually integrated.

PEL Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vgc6.i
Lab File ID: CCV63.D
Lab Smp Id: 1024CCV63
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\REINHARD\ee\chem\vgc6.i\V6102401a.b\8021S.m
Misc Info:

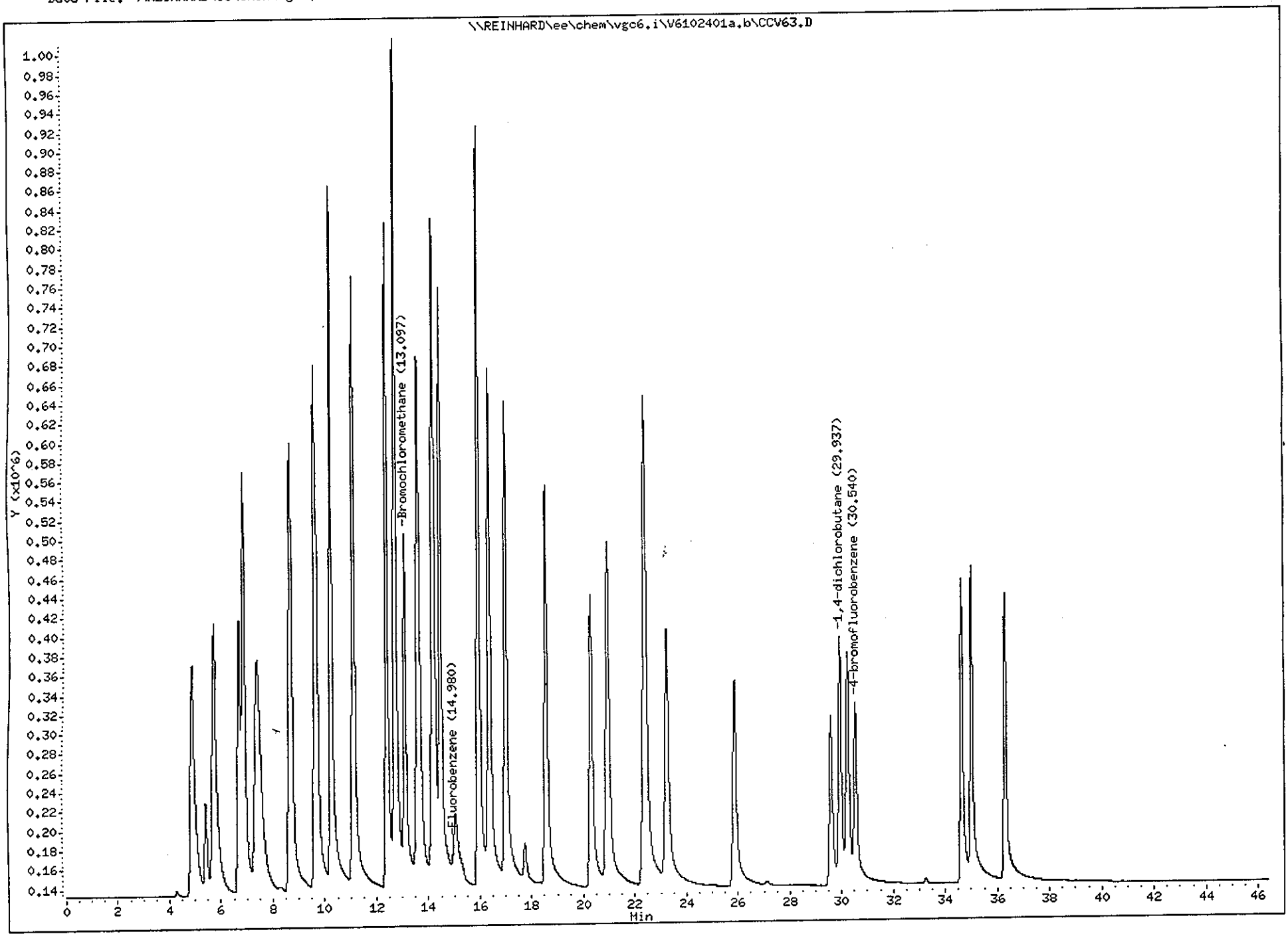
Calibration Date: 25-OCT-2001
Calibration Time: 03:11
Client Smp ID: 1024CCV63
Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	96668	48334	193336	96668	0.00

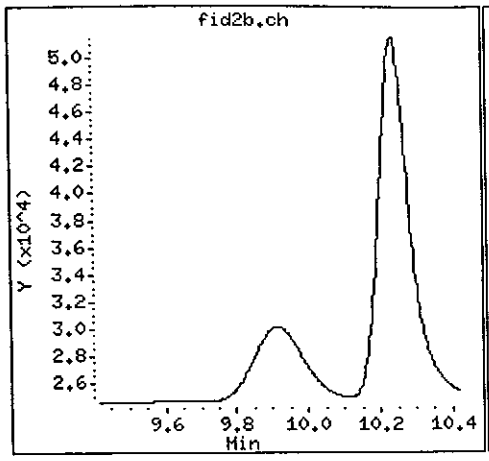
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	14.98	14.48	15.48	14.98	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

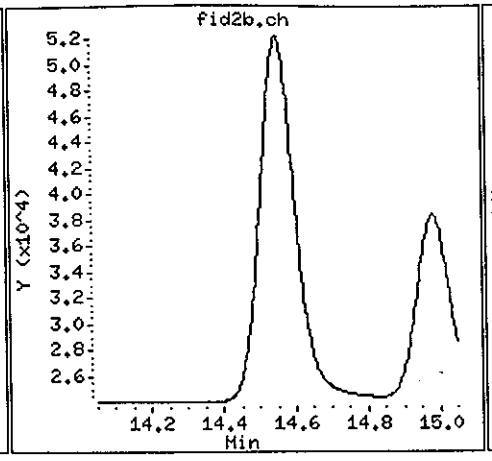
Data File: \\REINHARD\ee\chem\vgc6.i\V6102401a.b\CCV63.D



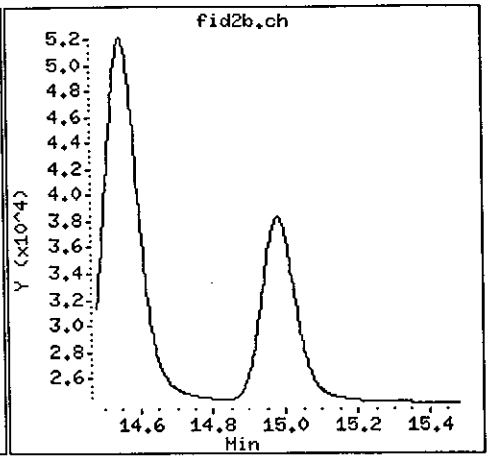
10 MTBE



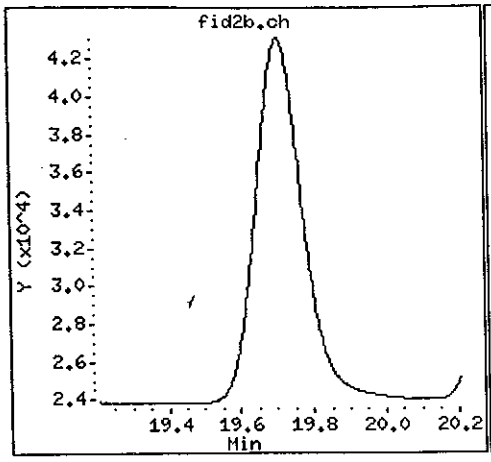
20 Benzene



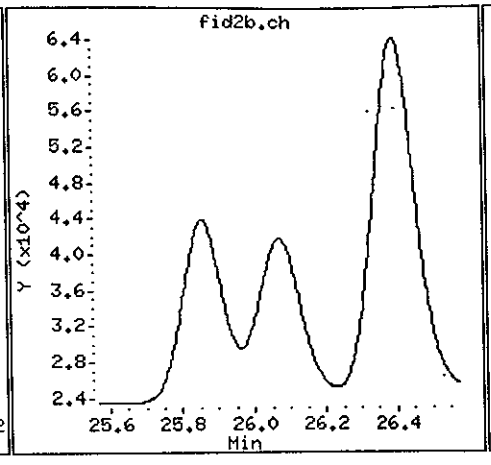
× 21 Fluorobenzene



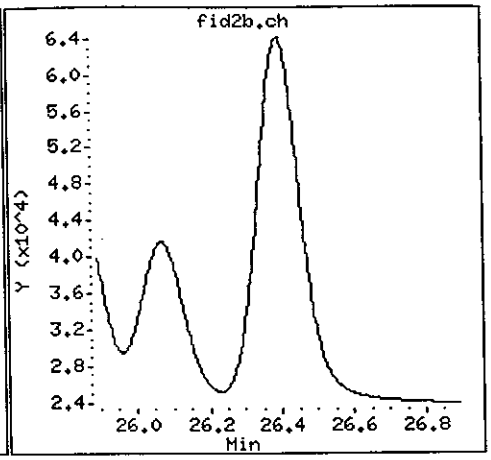
26 Toluene



33 Ethylbenzene

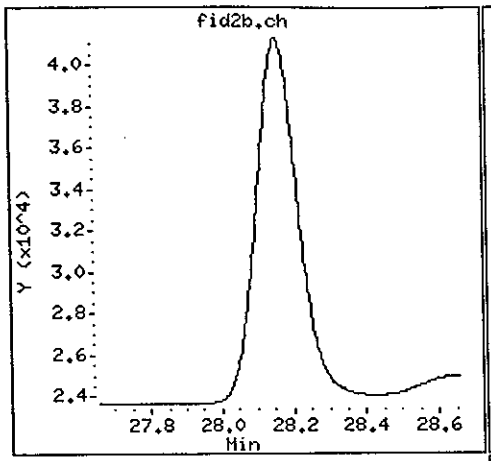


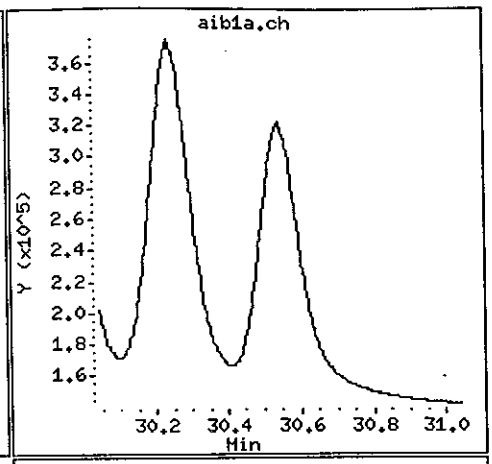
34 m,p-xylene

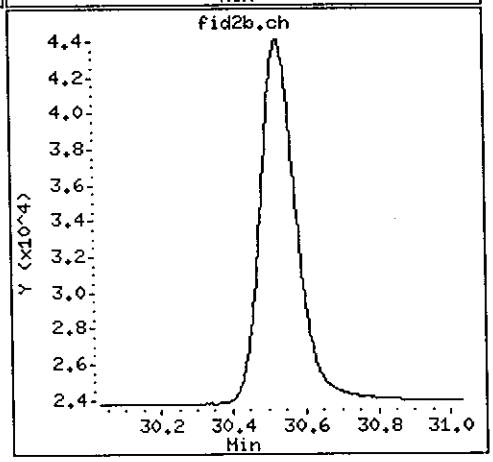


35 o-xylene

$ 39 4-bromofluorobenzene







PEL Laboratories

Data file : \\REINHARD\ee\chem\vgc6.i\V6102501.b\CCV61.D
Lab Smp Id: 1025CCV61 Client Smp ID: 1025CCV61
Inj Date : 25-OCT-2001 10:18
Operator : Inst ID: vgc6.i
Smp Info : 1025CCV61
Misc Info :
Comment :
Method : \\REINHARD\ee\chem\vgc6.i\V6102501.b\8021S.m
Meth Date : 30-Oct-2001 15:10 kavita Quant Type: ISTD
Cal Date : 23-OCT-2001 23:22 Cal File: 500PPT.D
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: cto-062.sub
Target Version: 4.04
Processing Host: REINHARD

Concentration Formula: Amt * DF * 5/(ws*(1-(m/100)))

Name	Value	Description
DF	1.000	Dilution Factor
ws	5.000	weight in grams
m	0.000	

Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/kg)
10 MTBE	FID2B	9.936	9.910	(0.662)	57941	25.2039	25.2(M)
20 Benzene	FID2B	14.573	14.546	(0.971)	200949	31.7991	31.8
* 21 Fluorobenzene	FID2B	15.003	14.980	(1.000)	96643	30.0000	
26 Toluene	FID2B	19.740	19.700	(1.316)	182721	30.6733	30.7
33 Ethylbenzene	FID2B	26.106	26.063	(1.740)	172047	30.2192	30.2
34 m,p-xylene	FID2B	26.426	26.386	(1.761)	375867	58.6186	58.6
35 o-xylene	FID2B	28.190	28.150	(1.879)	150257	29.6054	29.6
$ 39 4-bromofluorobenzene	FID2B	30.560	30.523	(2.037)	149431	26.9869	27.0

QC Flag Legend

M - Compound response manually integrated.

PEL Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vgc6.i
Lab File ID: CCV61.D
Lab Smp Id: 1025CCV61
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\REINHARD\ee\chem\vgc6.i\V6102501.b\8021S.m
Misc Info:

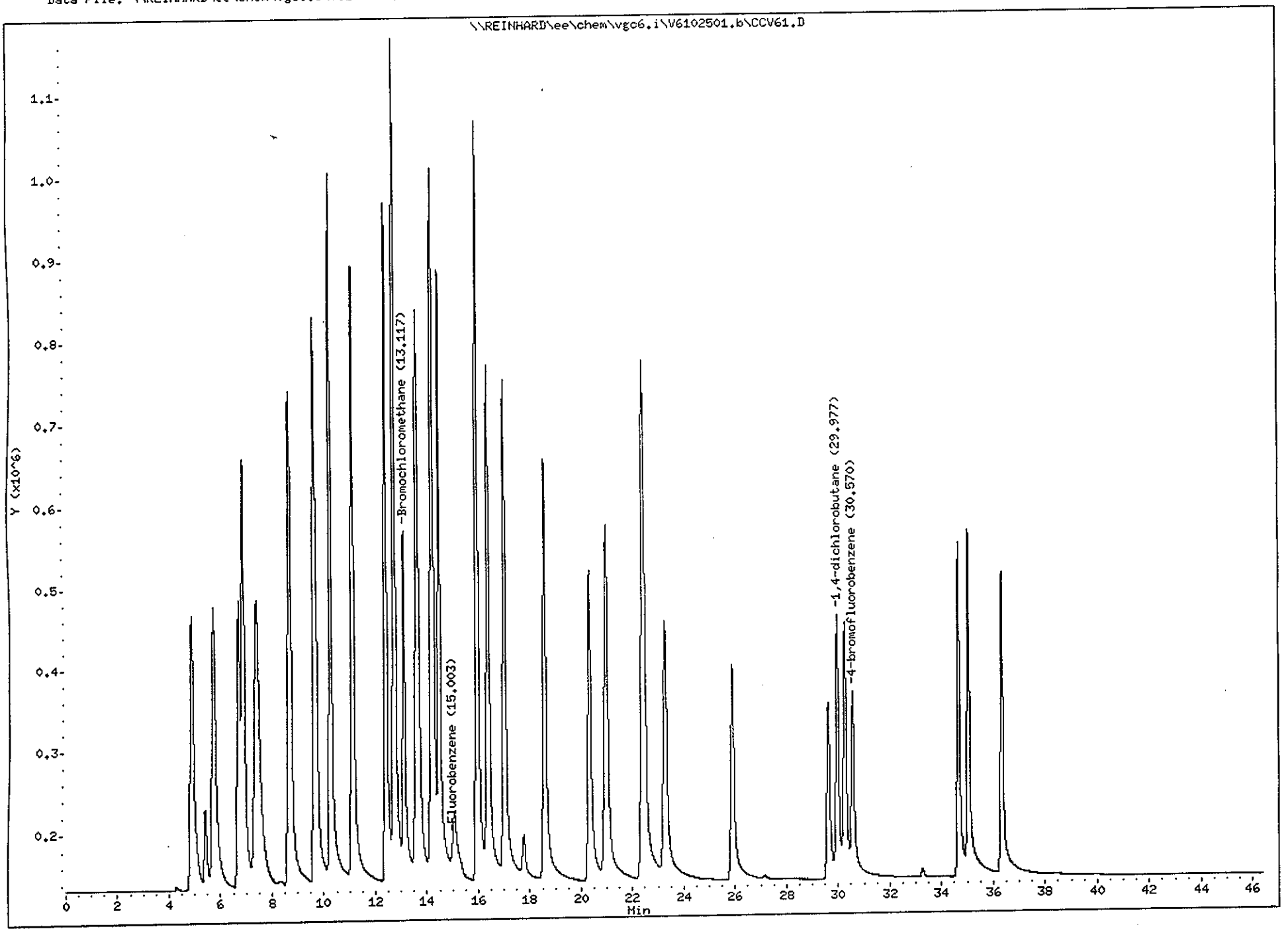
Calibration Date: 26-OCT-2001
Calibration Time: 06:01
Client Smp ID: 1025CCV61
Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	85803	42902	171606	96643	12.63

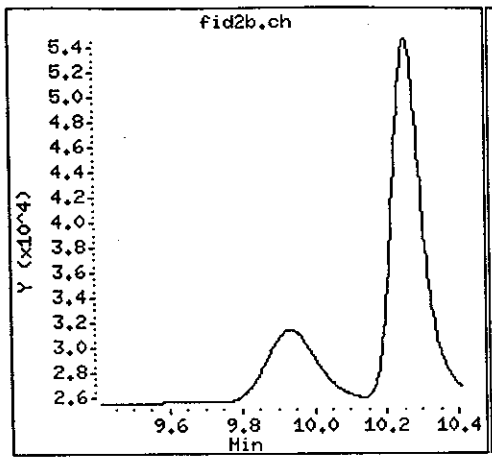
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	14.98	14.48	15.48	15.00	0.16

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

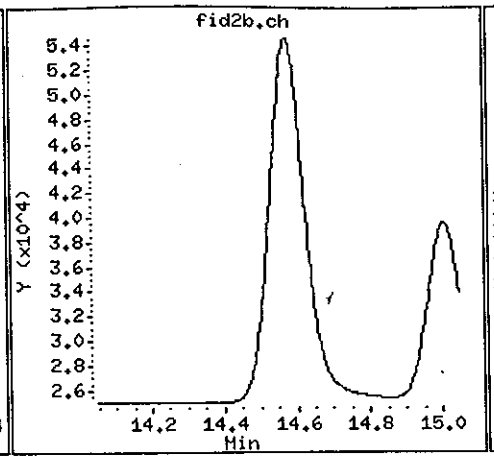
Data File: \\REINHARD\ee\chem\vgc6.i\V6102501.b\CCV61.D



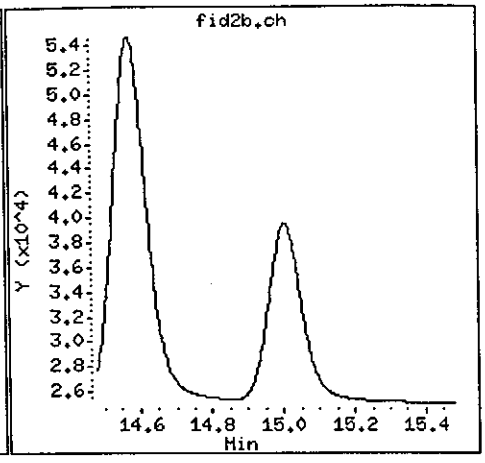
10 MTBE



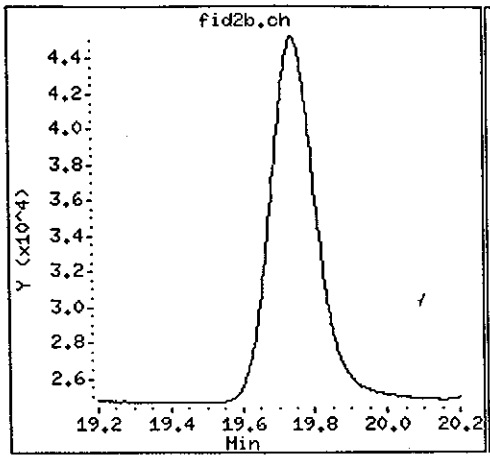
20 Benzene



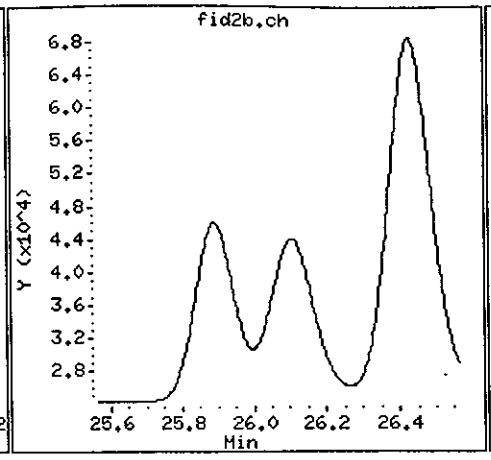
* 21 Fluorobenzene



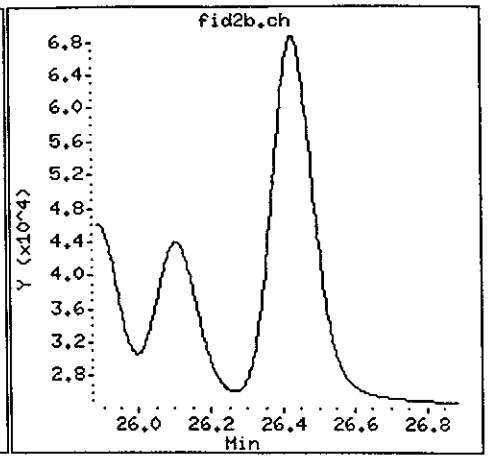
26 Toluene



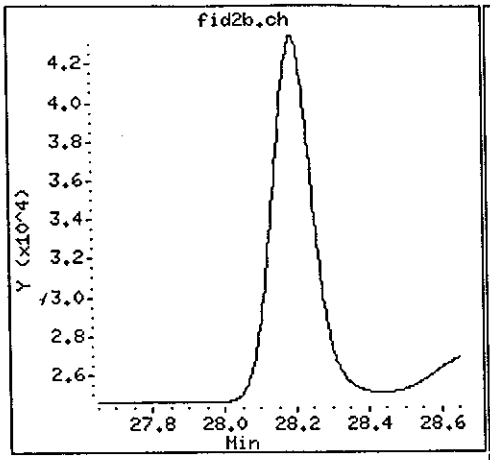
33 Ethylbenzene



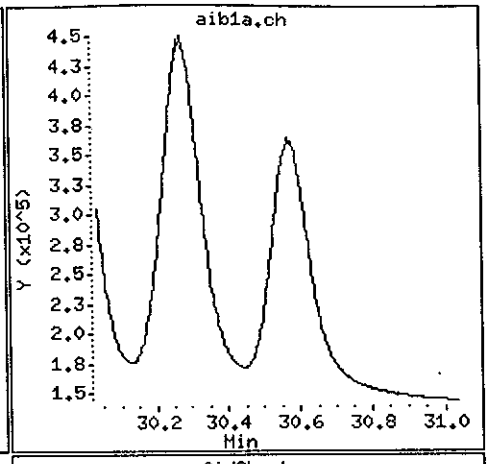
34 m,p-xylene

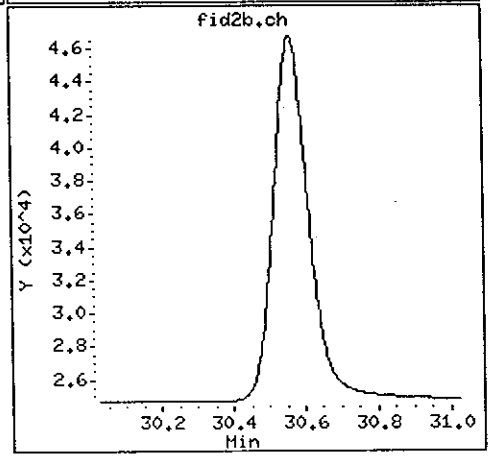


35 o-xylene



$ 39 4-bromofluorobenzene





PEL Laboratories

Data file : \\REINHARD\ee\chem\vgc6.i\V6102501.b\LCS61.D
Lab Smp Id: 1025LCS61 Client Smp ID: 1025LCS61
Inj Date : 25-OCT-2001 12:07
Operator : Inst ID: vgc6.i
Smp Info : 1025LCS61
Misc Info :
Comment :
Method : \\REINHARD\ee\chem\vgc6.i\V6102501.b\8021S.m
Meth Date : 30-Oct-2001 15:10 kavita Quant Type: ISTD
Cal Date : 23-OCT-2001 23:22 Cal File: 500PPT.D
Als bottle: 3 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: cto-062.sub
Target Version: 4.04
Processing Host: REINHARD

Concentration Formula: Amt * DF * 5/(ws*(1-(m/100)))

Name	Value	Description
DF	1.000	Dilution Factor
ws	5.000	weight in grams
m	0.000	

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/kg)
	10 MTBE	FID2B	9.963	9.910	(0.663)	17083	7.72781	7.7
	20 Benzene	FID2B	14.600	14.546	(0.971)	50155	8.25379	8.2(RM)
*	21 Fluorobenzene	FID2B	15.033	14.980	(1.000)	92931	30.0000	
	26 Toluene	FID2B	19.780	19.700	(1.316)	54362	9.49025	9.5(M)
	33 Ethylbenzene	FID2B	26.143	26.063	(1.739)	50208	9.17103	9.2
	34 m,p-xylene	FID2B	26.470	26.386	(1.761)	109974	17.8361	17.8
	35 o-xylene	FID2B	28.233	28.150	(1.878)	44482	9.11443	9.1
$	39 4-bromofluorobenzene	FID2B	30.600	30.523	(2.035)	142859	26.8305	26.8(Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

PEL Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

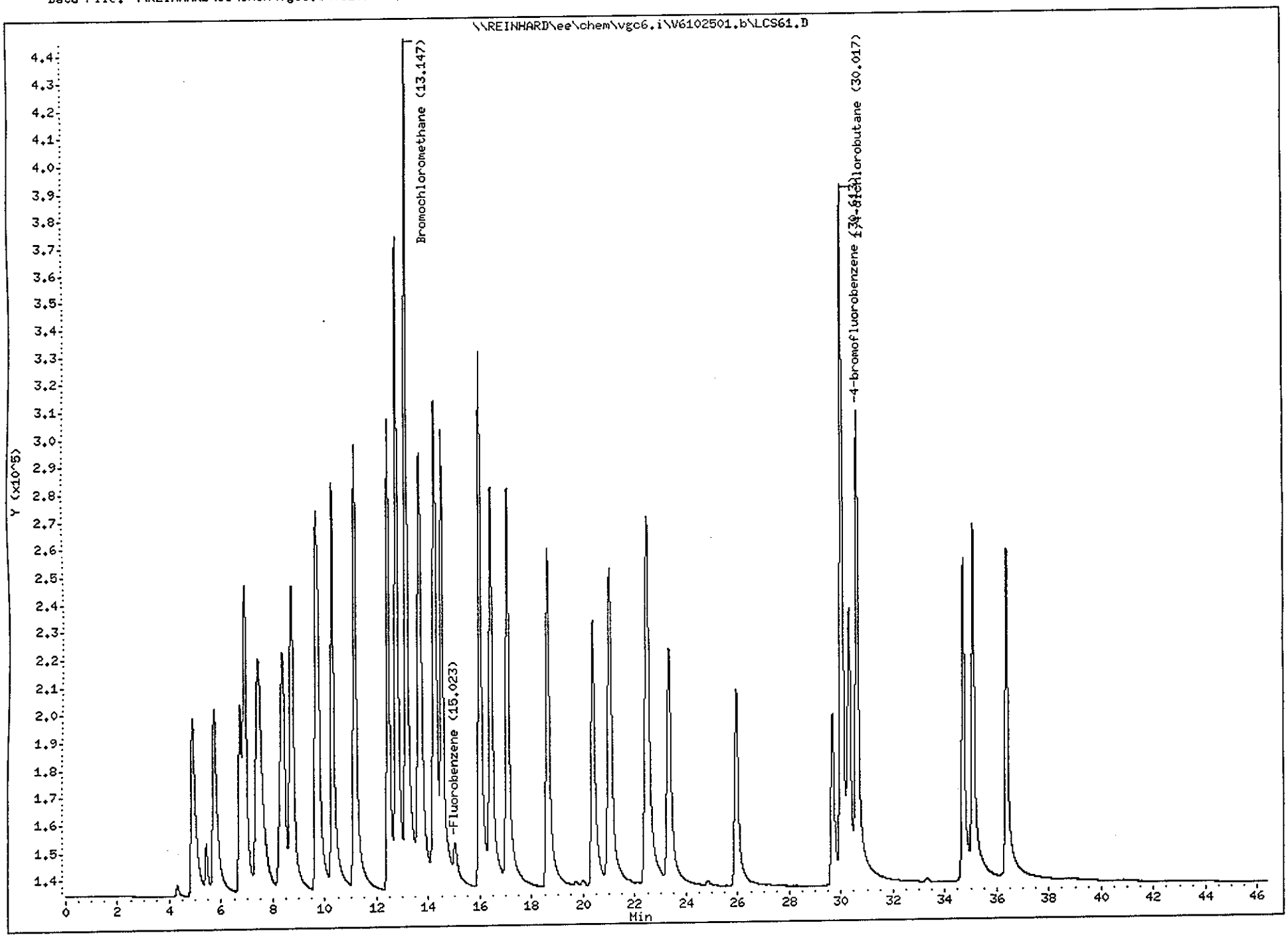
Instrument ID: vgc6.i
Lab File ID: LCS61.D
Lab Smp Id: 1025LCS61
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\REINHARD\ee\chem\vgc6.i\V6102501.b\8021S.m
Misc Info:

Calibration Date: 26-OCT-2001
Calibration Time: 06:01
Client Smp ID: 1025LCS61
Level: LOW
Sample Type: SOIL

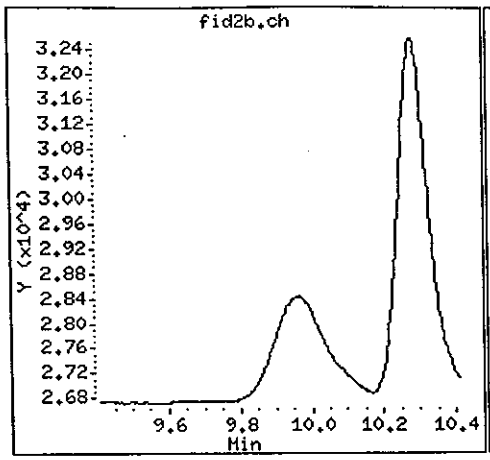
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	85803	42902	171606	92931	8.31

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	14.98	14.48	15.48	15.03	0.36

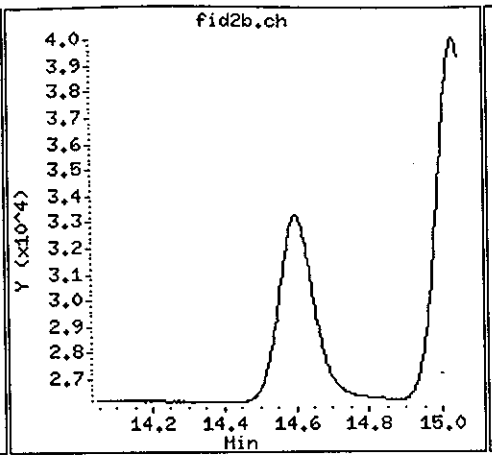
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.


\\REINHARD\ee\chem\vgc6.i\V6102501.b\LCS61.D
Bromochloromethane (13.147)
-Fluorobenzene (15.023)
-4-bromofluorobenzene (30.017)
Y (x10^5)
Min

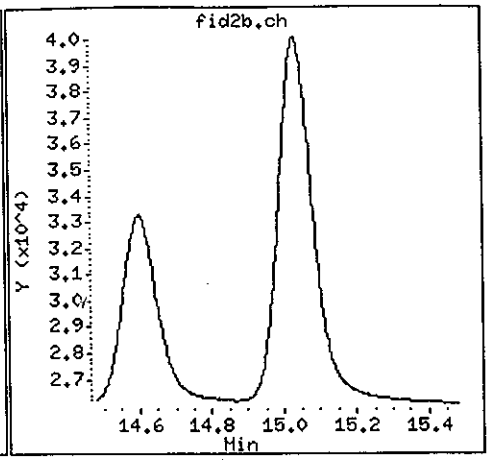
10 MTBE



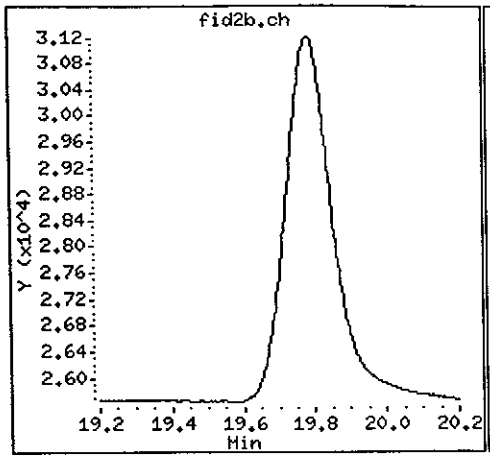
20 Benzene



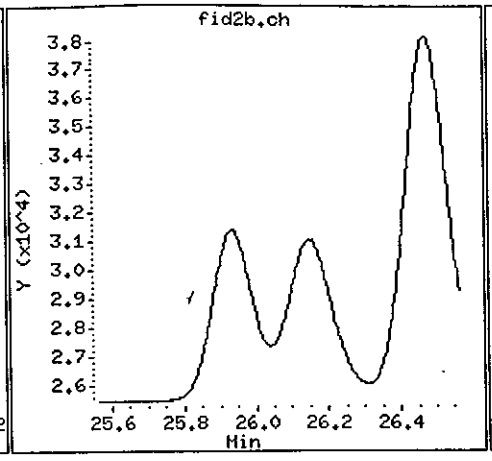
× 21 Fluorobenzene



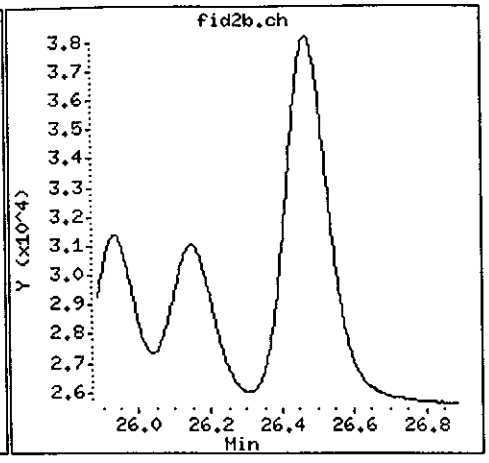
26 Toluene



33 Ethylbenzene

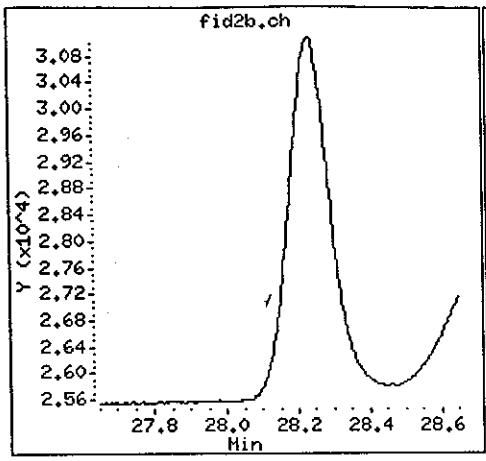


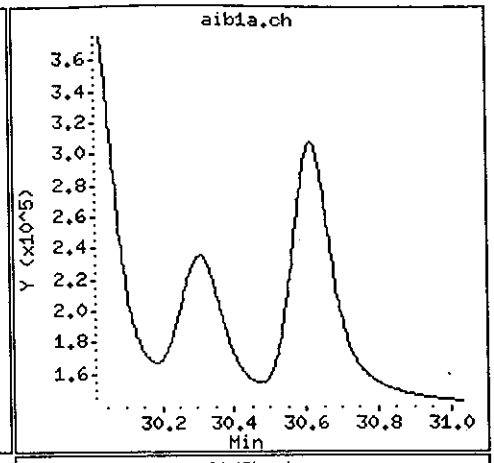
34 m,p-xylene

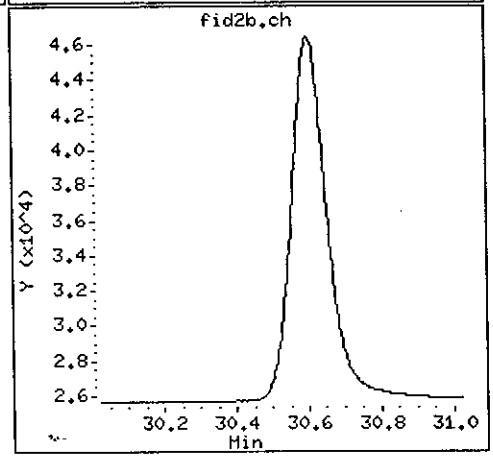


35 o-xylene

$ 39 4-bromofluorobenzene







PEL Laboratories

Data file : \\REINHARD\ee\chem\vgc6.i\V6102501.b\94-8S.D
Lab Smp Id: 211009408 Client Smp ID: B101S101801MS
Inj Date : 25-OCT-2001 13:02
Operator : Inst ID: vgc6.i
Smp Info : 211009408
Misc Info :
Comment :
Method : \\REINHARD\ee\chem\vgc6.i\V6102501.b\8021S.m
Meth Date : 30-Oct-2001 15:10 kavita Quant Type: ISTD
Cal Date : 23-OCT-2001 23:22 Cal File: 500PPT.D
Als bottle: 4 QC Sample: MS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: cto-062.sub
Target Version: 4.04
Processing Host: REINHARD

Concentration Formula: Amt * DF * 5/(ws*(1-(m/100)))

Name	Value	Description
DF	1.000	Dilution Factor
ws	5.123	weight in grams
m	11.000	

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/kg)
	10 MTBE	FID2B	9.973	9.910	(0.663)	19472	8.69244	9.5
	20 Benzene	FID2B	14.620	14.546	(0.971)	52954	8.59957	9.4
*	21 Fluorobenzene	FID2B	15.050	14.980	(1.000)	94172	30.0000	
	26 Toluene	FID2B	19.810	19.700	(1.316)	39778	6.85274	7.5(R)
	33 Ethylbenzene	FID2B	26.180	26.063	(1.740)	29760	5.36435	5.9(R)
	34 m,p-xylene	FID2B	26.503	26.386	(1.761)	61684	9.87239	10.8(R)
	35 o-xylene	FID2B	28.263	28.150	(1.878)	23925	4.83767	5.3(R)
$	39 4-bromofluorobenzene	FID2B	30.630	30.523	(2.035)	62376	11.5605	12.7(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

PEL Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

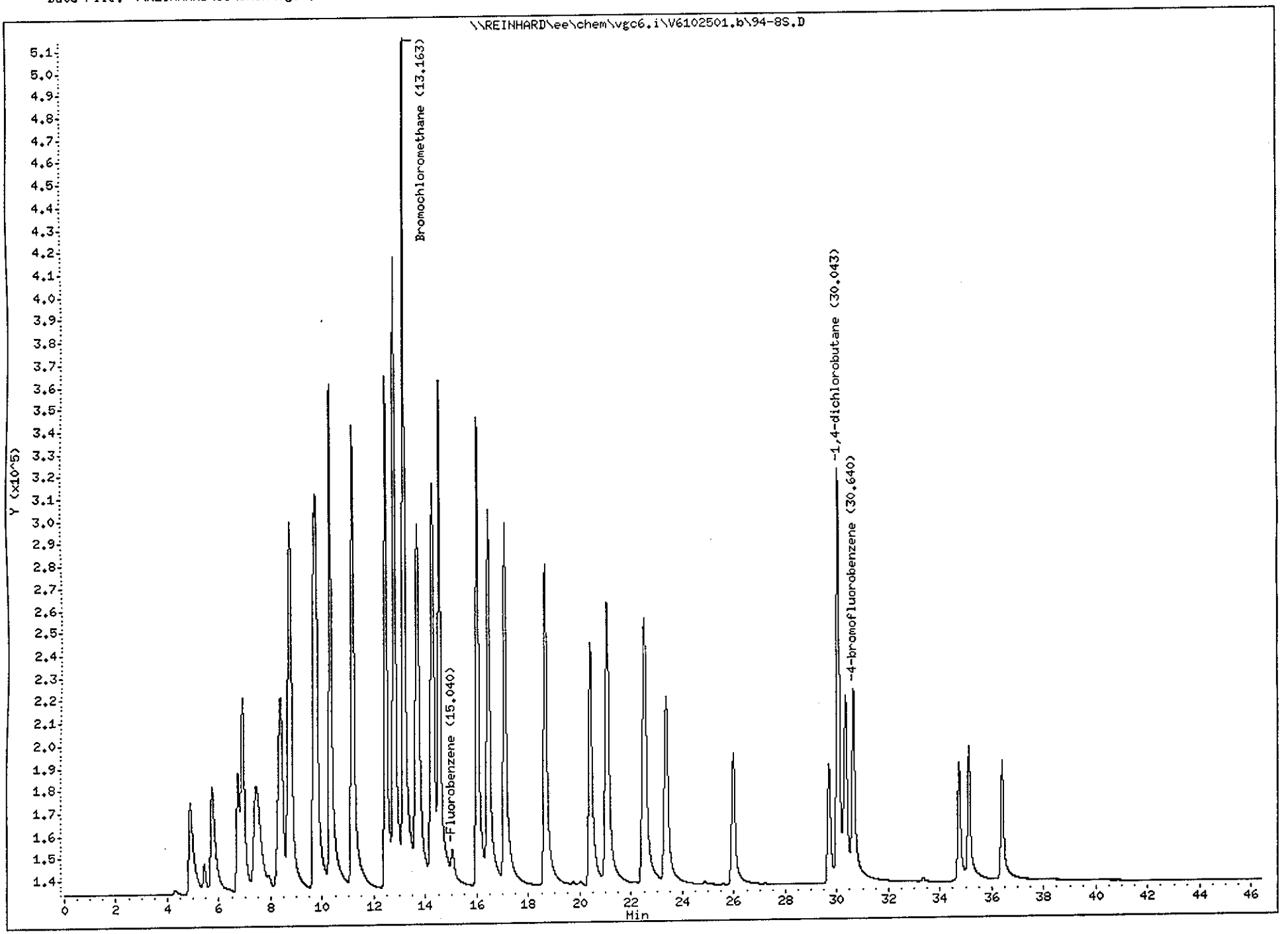
Instrument ID: vgc6.i
Lab File ID: 94-8S.D
Lab Smp Id: 211009408
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\REINHARD\ee\chem\vgc6.i\V6102501.b\8021S.m
Misc Info:

Calibration Date: 26-OCT-2001
Calibration Time: 06:01
Client Smp ID: B101S101801MS
Level: LOW
Sample Type: SOIL

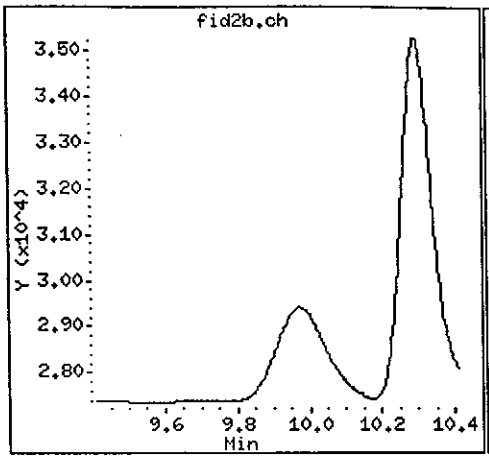
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	85803	42902	171606	94172	9.75

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	14.98	14.48	15.48	15.05	0.47

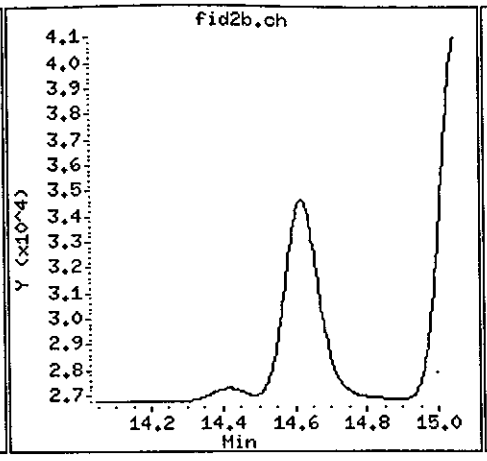
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.


\\REINHARD\ee\chem\vgc6.i\V6102501.b\94-8S.D
Bromochloromethane (13.163)
-Fluorobenzene (15.040)
-1,4-dichlorobutane (30.043)
-4-bromofluorobenzene (30.640)
Y (x10^5)
Min

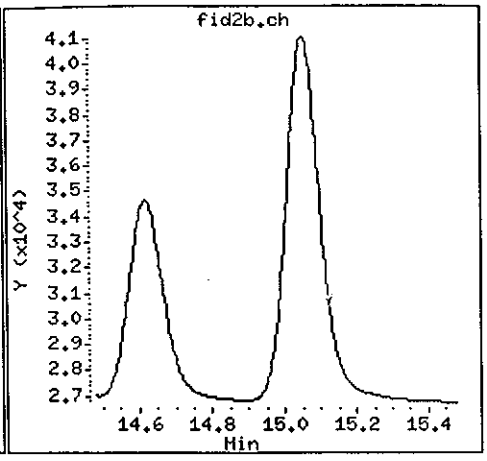
10 MTBE



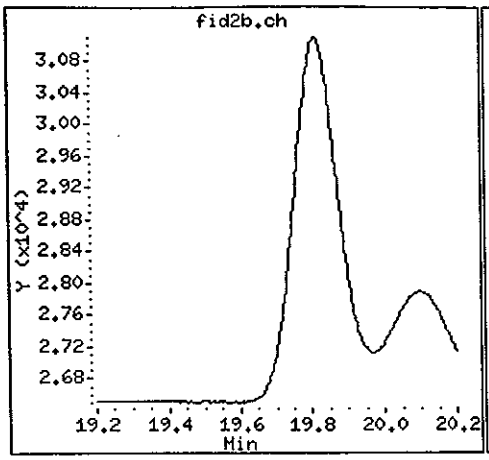
20 Benzene



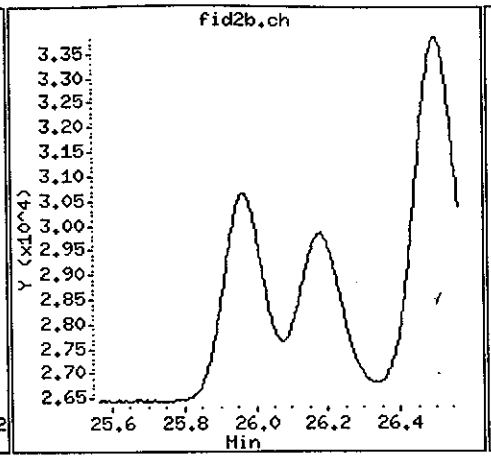
× 21 Fluorobenzene



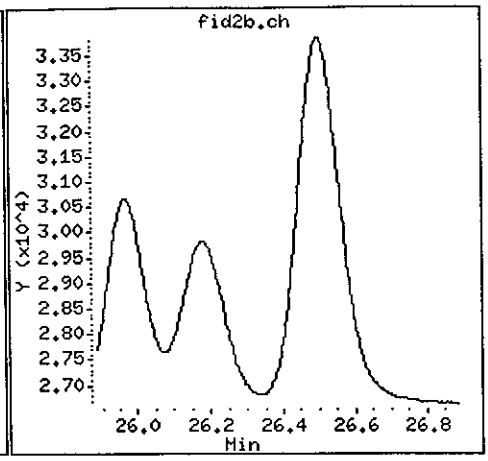
26 Toluene



33 Ethylbenzene

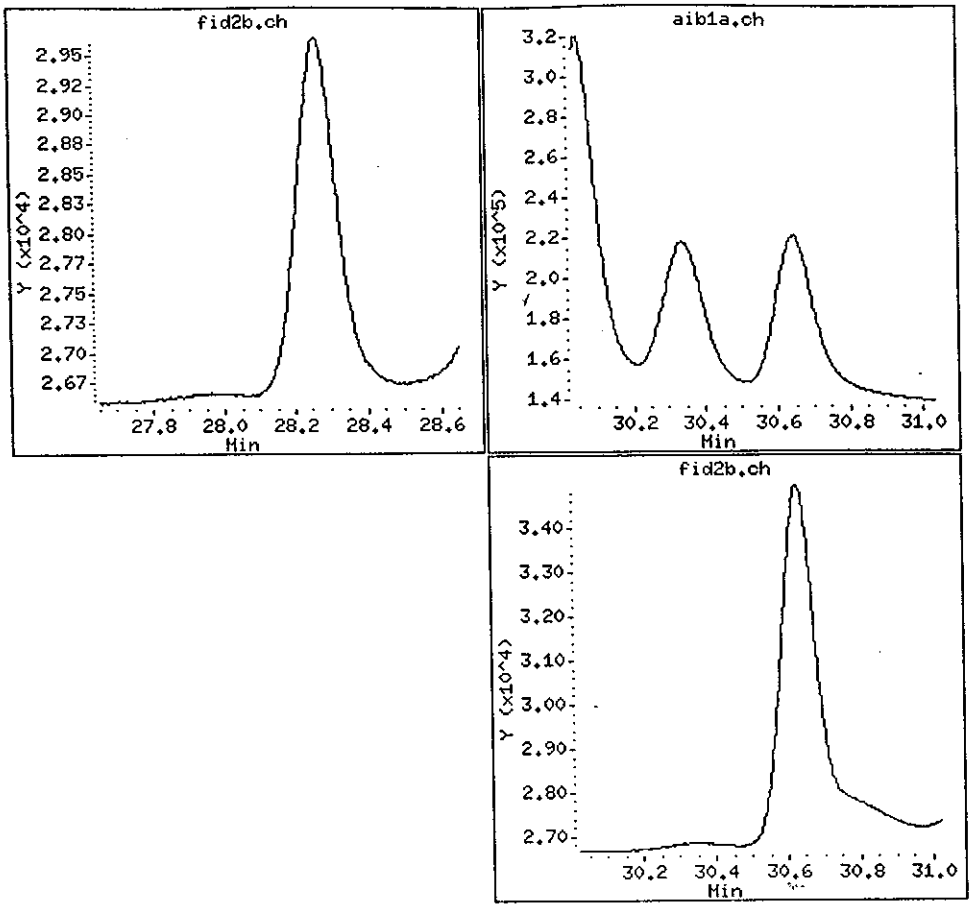


34 m,p-xylene



35 o-xylene

$ 39 4-bromofluorobenzene



PEL Laboratories

Data file : \\REINHARD\ee\chem\vgc6.i\V6102501.b\94-9D.D
Lab Smp Id: 211009409 Client Smp ID: B101S101801SD
Inj Date : 25-OCT-2001 13:57
Operator : Inst ID: vgc6.i
Smp Info : 211009409
Misc Info :
Comment :
Method : \\REINHARD\ee\chem\vgc6.i\V6102501.b\8021S.m
Meth Date : 30-Oct-2001 15:10 kavita Quant Type: ISTD
Cal Date : 23-OCT-2001 23:22 Cal File: 500PPT.D
Als bottle: 5 QC Sample: MSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: cto-062.sub
Target Version: 4.04
Processing Host: REINHARD

Concentration Formula: Amt * DF * 5/(ws*(1-(m/100)))

Name	Value	Description
DF	1.000	Dilution Factor
ws	4.894	weight in grams
m	11.000	

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/kg)
	10 MTBE	FID2B	9.996	9.910	(0.663)	19256	8.73119	10.0
	20 Benzene	FID2B	14.636	14.546	(0.971)	48169	7.94551	9.1(R)
*	21 Fluorobenzene	FID2B	15.066	14.980	(1.000)	92714	30.0000	
	26 Toluene	FID2B	19.833	19.700	(1.316)	31921	5.58566	6.4(R)
	33 Ethylbenzene	FID2B	26.193	26.063	(1.738)	23523	4.30679	4.9(R)
	34 m,p-xylene	FID2B	26.513	26.386	(1.760)	52072	8.46507	9.7(R)
	35 o-xylene	FID2B	28.276	28.150	(1.877)	20227	4.15425	4.8(R)
$	39 4-bromofluorobenzene	FID2B	30.640	30.523	(2.034)	55061	10.3653	11.9(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

PEL Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

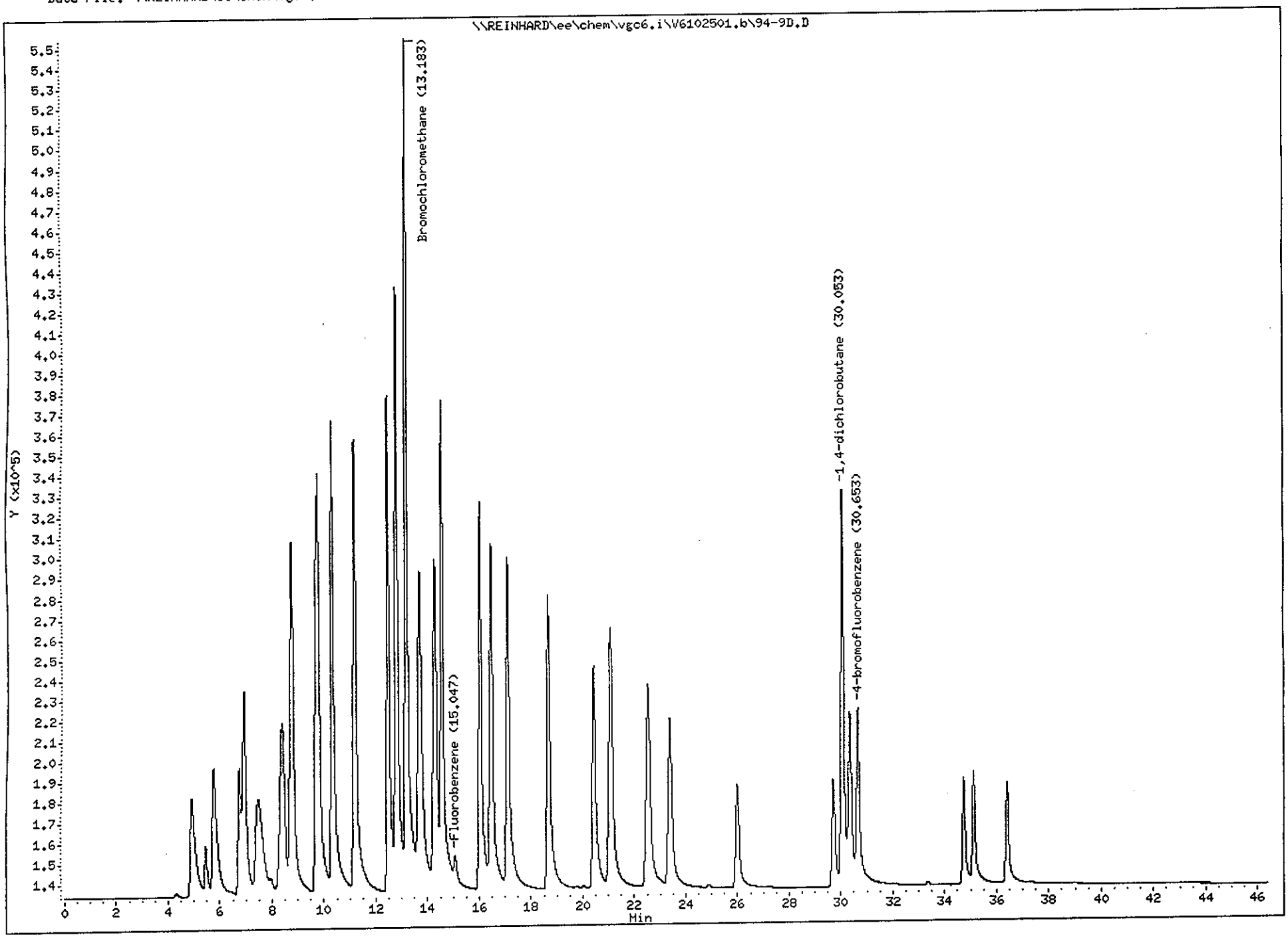
Instrument ID: vgc6.i
Lab File ID: 94-9D.D
Lab Smp Id: 211009409
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\REINHARD\ee\chem\vgc6.i\V6102501.b\8021S.m
Misc Info:

Calibration Date: 26-OCT-2001
Calibration Time: 06:01
Client Smp ID: B101S101801SD
Level: LOW
Sample Type: SOIL

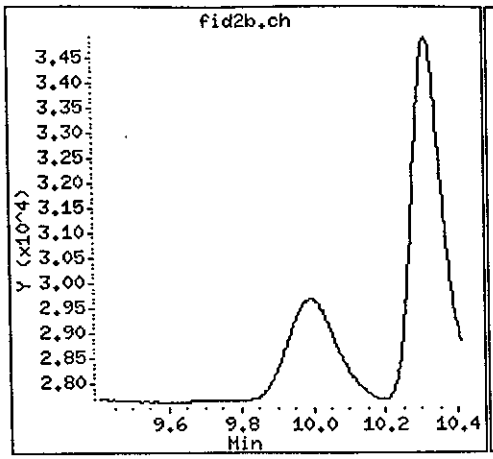
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	85803	42902	171606	92714	8.05

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	14.98	14.48	15.48	15.07	0.58

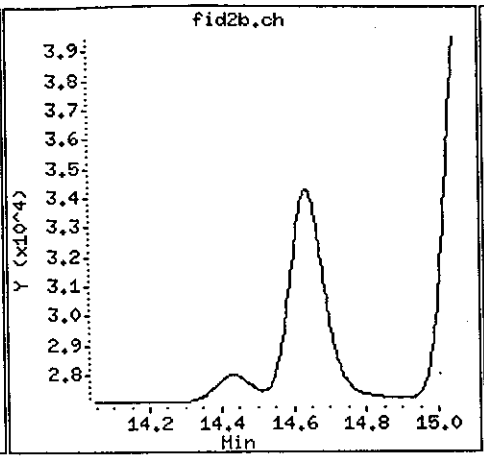
*AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.


\\REINHARD\ee\chem\vgc6.i\V6102501.b\94-9D.D
Y (x10^5)
Min
Bromochloromethane (13.183)
-Fluorobenzene (15.047)
-1,4-dichlorobutane (30.053)
-4-bromofluorobenzene (30.653)

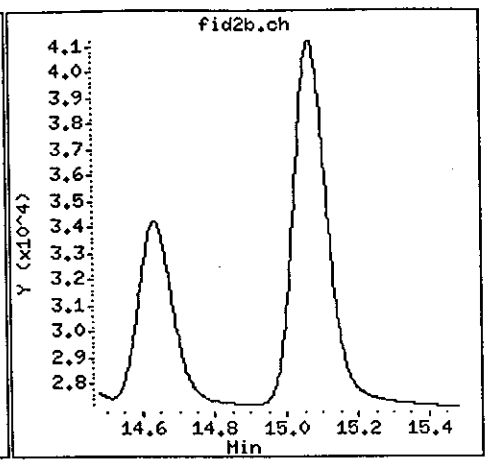
10 MTBE



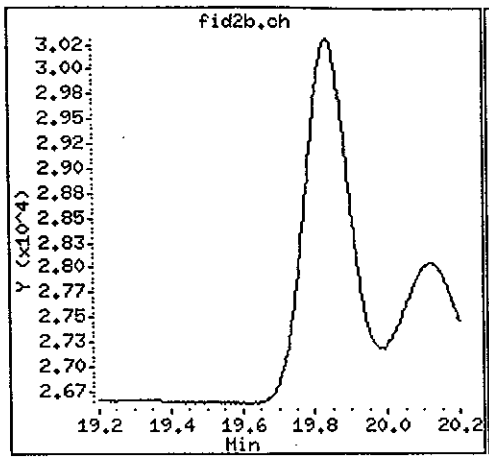
20 Benzene



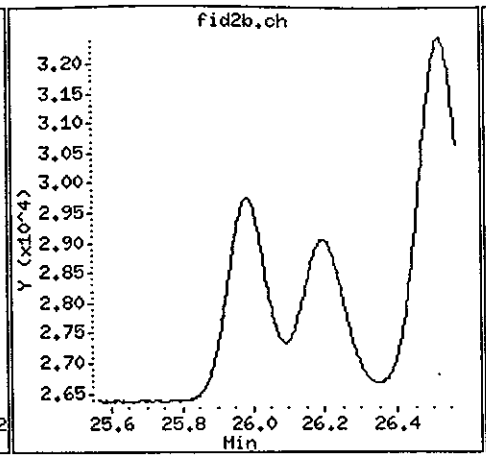
× 21 Fluorobenzene



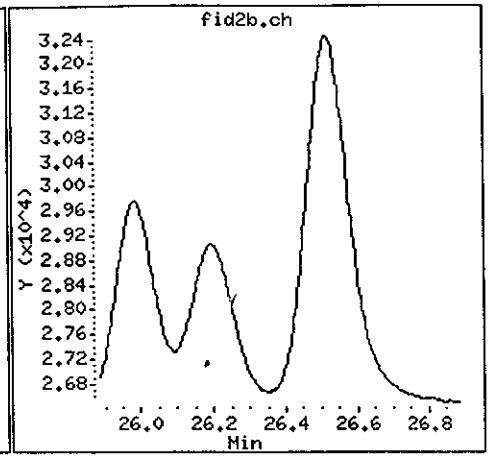
26 Toluene



33 Ethylbenzene

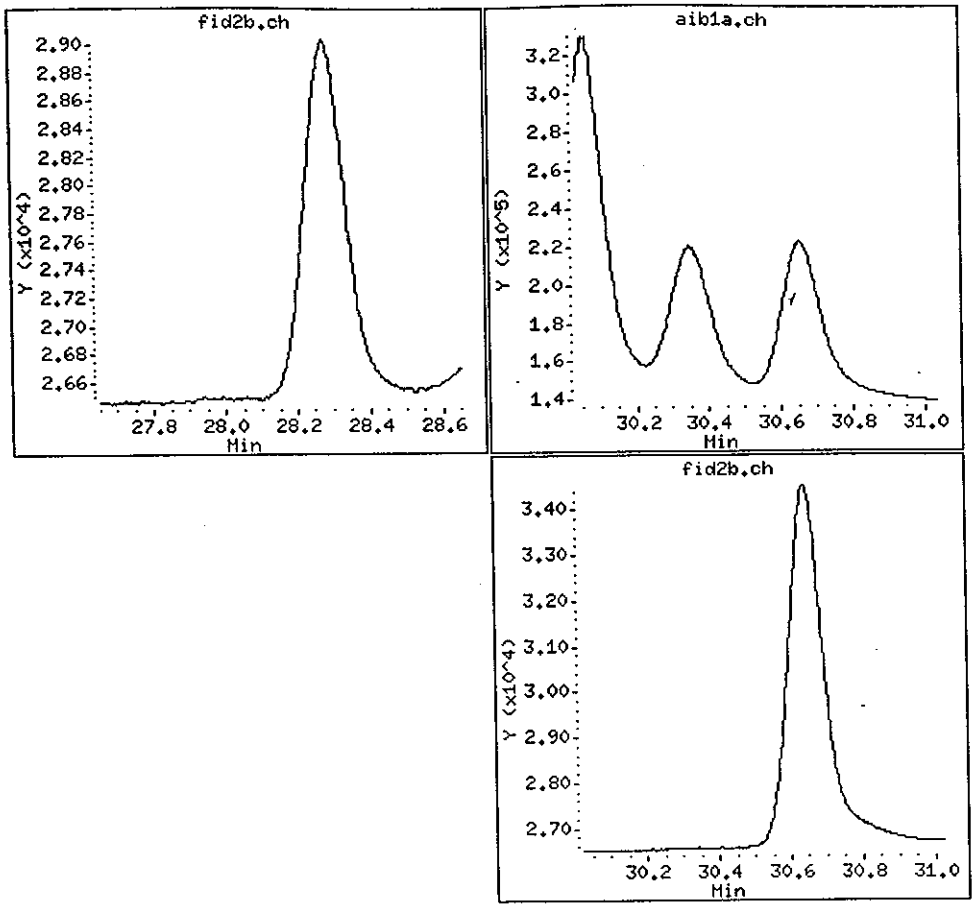


34 m,p-xylene



35 o-xylene

$ 39 4-bromofluorobenzene



PEL Laboratories

Data file : \\REINHARD\ee\chem\vgc6.i\V6102501.b\BLK61.D
Lab Smp Id: 1025BLK61 Client Smp ID: 1025BLK61
Inj Date : 25-OCT-2001 14:52
Operator : Inst ID: vgc6.i
Smp Info : 1025BLK61
Misc Info :
Comment :
Method : \\REINHARD\ee\chem\vgc6.i\V6102501.b\8021S.m
Meth Date : 30-Oct-2001 15:10 kavita Quant Type: ISTD
Cal Date : 23-OCT-2001 23:22 Cal File: 500PPT.D
Als bottle: 6 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: cto-062.sub
Target Version: 4.04
Processing Host: REINHARD

Concentration Formula: Amt * DF * 5/(ws*(1-(m/100)))

Name	Value	Description
DF	1.000	Dilution Factor
ws	5.000	weight in grams
m	0.000	

Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/kg)
* 21 Fluorobenzene	FID2B	15.070	14.980	(1.000)	89145	30.0000	
$ 39 4-bromofluorobenzene	FID2B	30.640	30.523	(2.033)	134814	26.3949	26.4

PEL Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

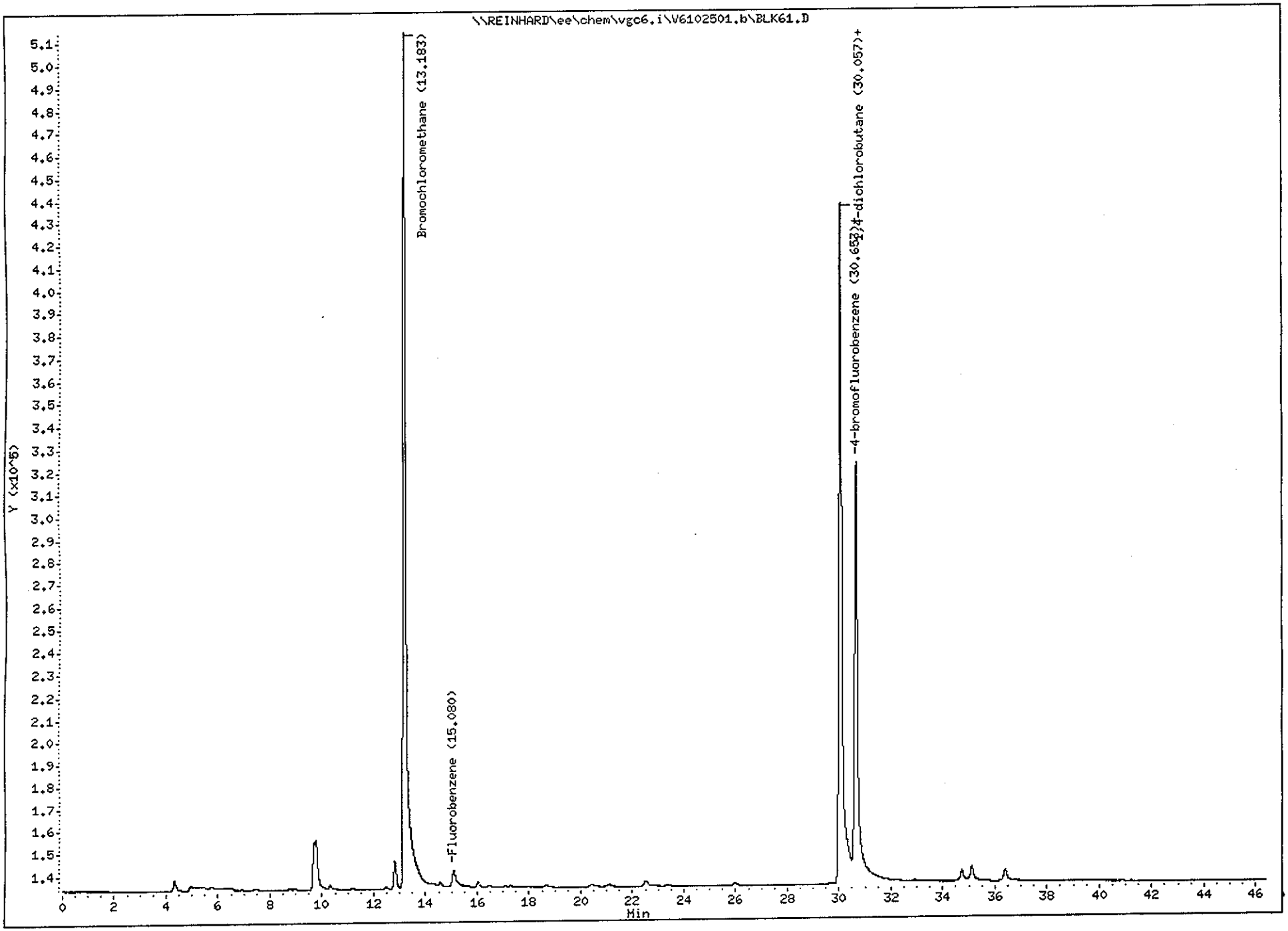
Instrument ID: vgc6.i
Lab File ID: BLK61.D
Lab Smp Id: 1025BLK61
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\REINHARD\ee\chem\vgc6.i\V6102501.b\8021S.m
Misc Info:

Calibration Date: 26-OCT-2001
Calibration Time: 06:01
Client Smp ID: 1025BLK61
Level: LOW
Sample Type: SOIL

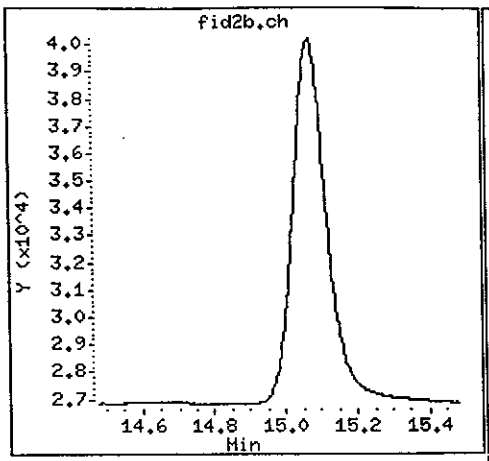
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	85803	42902	171606	89145	3.89

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	14.98	14.48	15.48	15.07	0.60

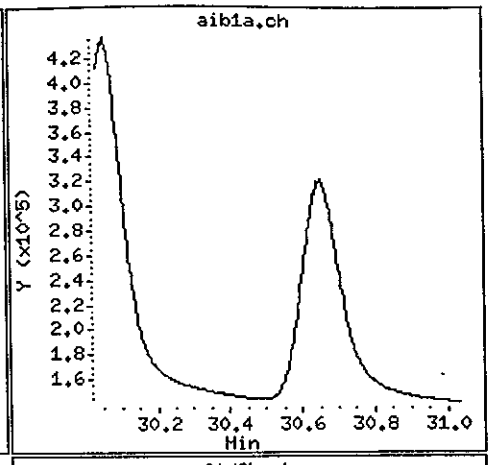
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

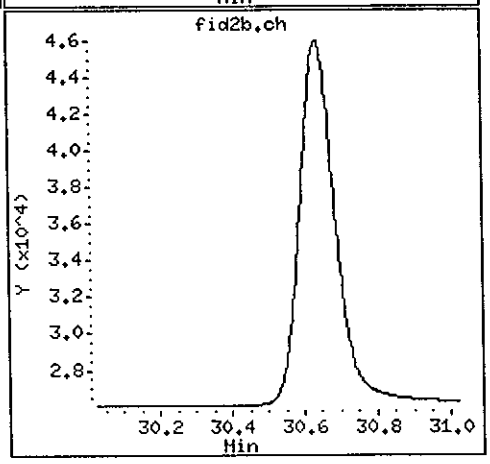

\\REINHARD\ee\chem\vgc6.i\V6102501.b\BLK61.D
Bromochloromethane (13.183)
-Fluorobenzene (15.080)
-4-bromofluorobenzene (30.652)
1,4-dichlorobutane (30.057)+
Y (x10^5)
Min

× 21 Fluorobenzene



$ 39 4-bromofluorobenzene





PEL Laboratories

Data file : \\REINHARD\ee\chem\vgc6.i\V6102501.b\94-7.D
Lab Smp Id: 211009407 Client Smp ID: B101S101801
Inj Date : 25-OCT-2001 18:28
Operator : Inst ID: vgc6.i
Smp Info : 211009407
Misc Info :
Comment :
Method : \\REINHARD\ee\chem\vgc6.i\V6102501.b\8021S.m
Meth Date : 30-Oct-2001 15:10 kavita Quant Type: ISTD
Cal Date : 23-OCT-2001 23:22 Cal File: 500PPT.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: cto-062.sub
Target Version: 4.04
Processing Host: REINHARD

Concentration Formula: Amt * DF * 5/(ws*(1-(m/100)))

Name	Value	Description
DF	1.000	Dilution Factor
ws	5.463	weight in grams
m	11.000	

Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/kg)
20 Benzene	FID2B	14.383	14.546	(0.958)	5071	0.85533	0.88(a)
* 21 Fluorobenzene	FID2B	15.020	14.980	(1.000)	90669	30.0000	
26 Toluene	FID2B	20.046	19.700	(1.335)	6619	1.18434	1.2
$ 39 4-bromofluorobenzene	FID2B	30.573	30.523	(2.036)	68304	13.1483	13.5(QR)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

PEL Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vgc6.i
Lab File ID: 94-7.D
Lab Smp Id: 211009407
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\REINHARD\ee\chem\vgc6.i\V6102501.b\8021S.m
Misc Info:

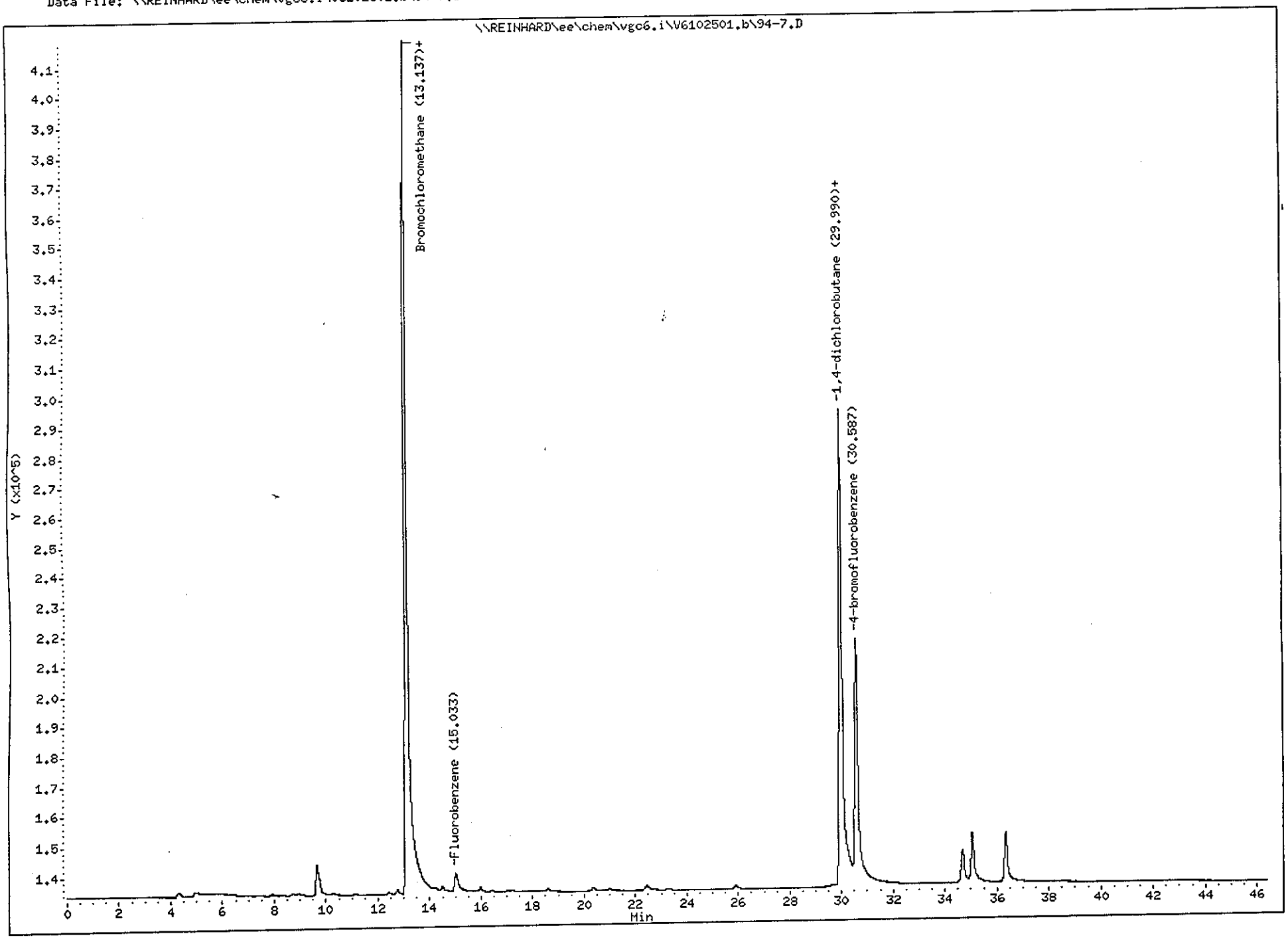
Calibration Date: 26-OCT-2001
Calibration Time: 06:01
Client Smp ID: B101S101801
Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	85803	42902	171606	90669	5.67

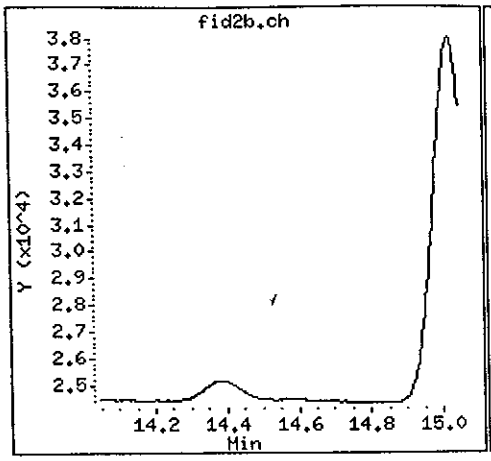
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	14.98	14.48	15.48	15.02	0.27

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

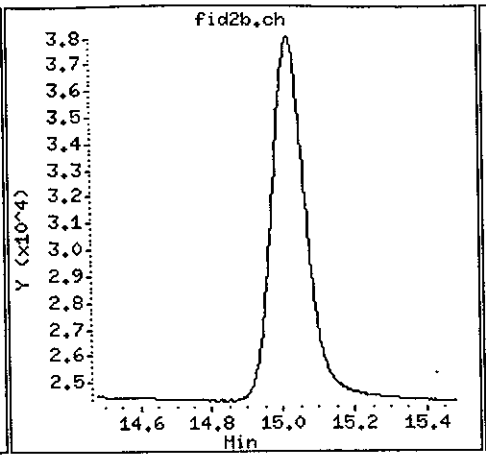
Data File: \\REINHARD\ee\chem\vgc6.i\V6102501.b\94-7.D



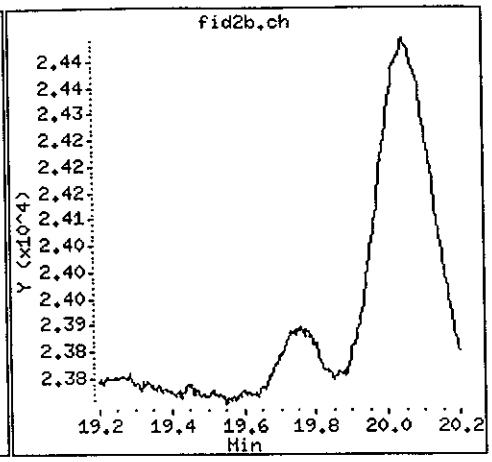
20 Benzene



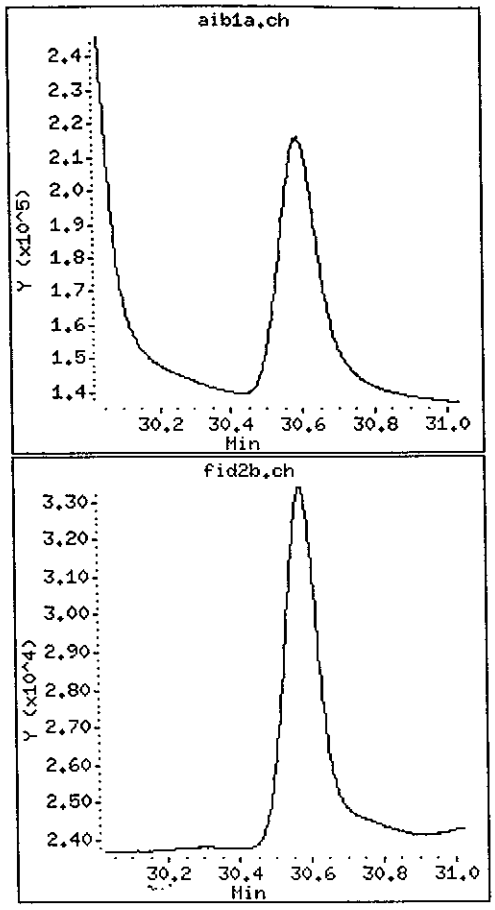
* 21 Fluorobenzene



26 Toluene



$ 39 4-bromofluorobenzene



PEL Laboratories

Data file : \\REINHARD\ee\chem\vgc6.i\V6102501.b\94-10.D
Lab Smp Id: 211009410 Client Smp ID: 062B104S101801
Inj Date : 25-OCT-2001 19:22
Operator : Inst ID: vgc6.i
Smp Info : 211009410
Misc Info:
Comment :
Method : \\REINHARD\ee\chem\vgc6.i\V6102501.b\8021S.m
Meth Date : 30-Oct-2001 15:10 kavita Quant Type: ISTD
Cal Date : 23-OCT-2001 23:22 Cal File: 500PPT.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: cto-062.sub
Target Version: 4.04
Processing Host: REINHARD

Concentration Formula: Amt * DF * 5/(ws*(1-(m/100)))

Name	Value	Description
DF	1.000	Dilution Factor
ws	4.825	weight in grams
m	11.100	

Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/kg)
* 21 Fluorobenzene	FID2B	15.010	14.980	(1.000)	93301	30.0000	
$ 39 4-bromofluorobenzene	FID2B	30.563	30.523	(2.036)	77147	14.4316	16.8(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

PEL Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vgc6.i
Lab File ID: 94-10.D
Lab Smp Id: 211009410
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\REINHARD\ee\chem\vgc6.i\V6102501.b\8021S.m
Misc Info:

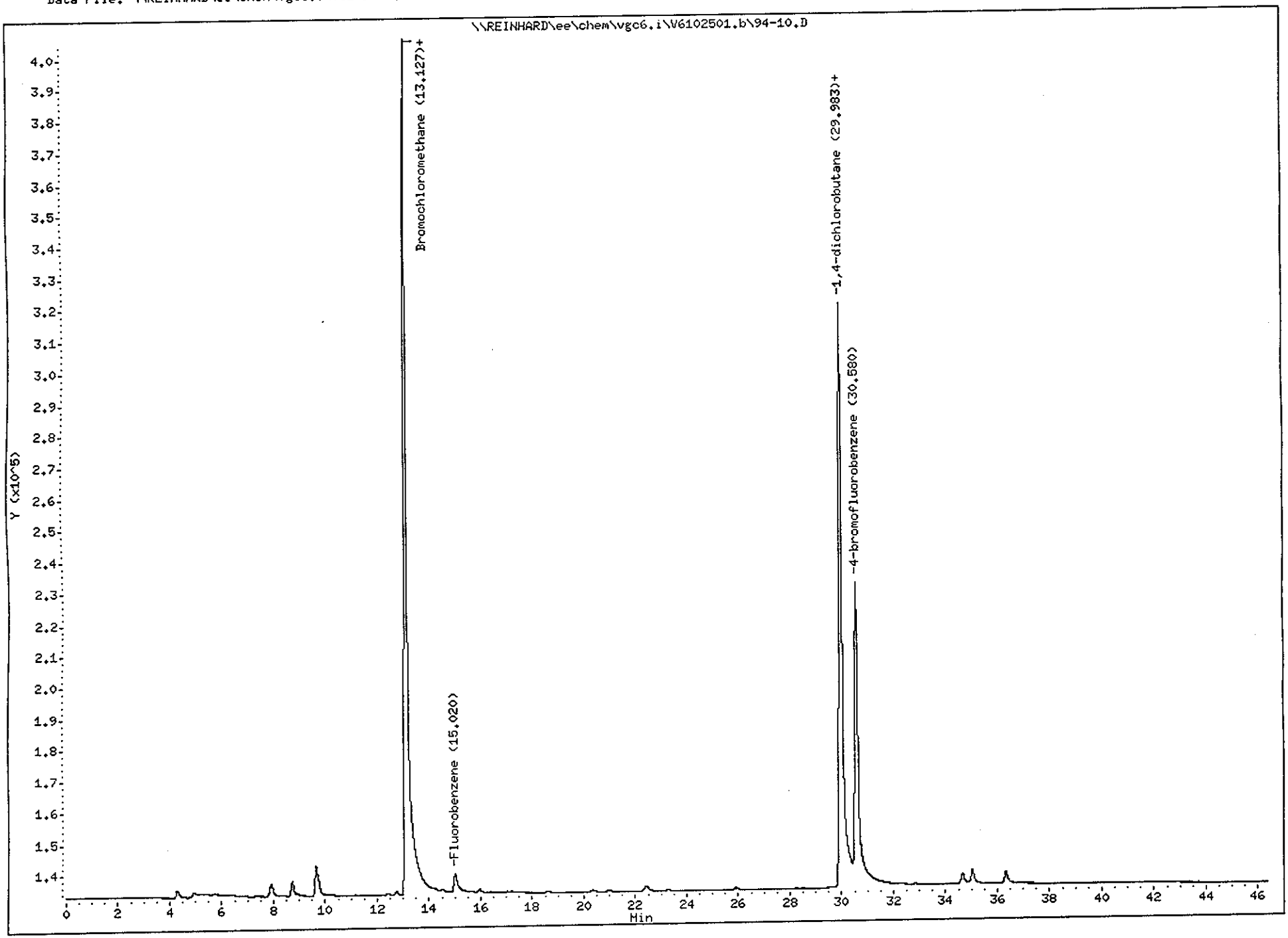
Calibration Date: 26-OCT-2001
Calibration Time: 06:01
Client Smp ID: 062B104S101801
Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	85803	42902	171606	93301	8.74

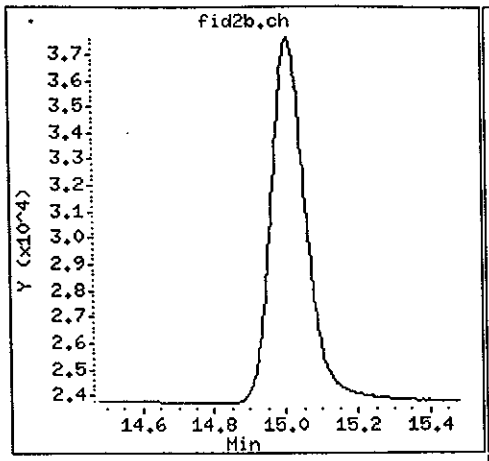
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	14.98	14.48	15.48	15.01	0.20

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

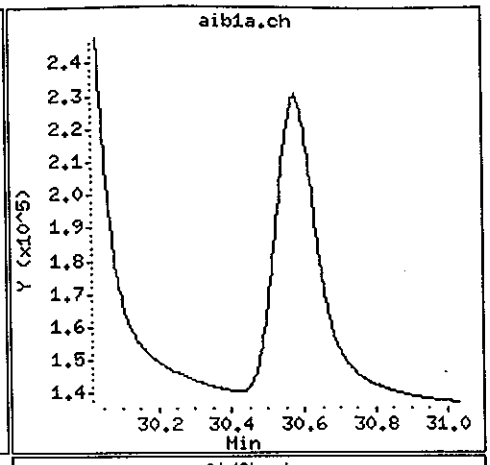
Data File: \\REINHARD\ee\chem\vgc6.i\V6102501.b\94-10.D

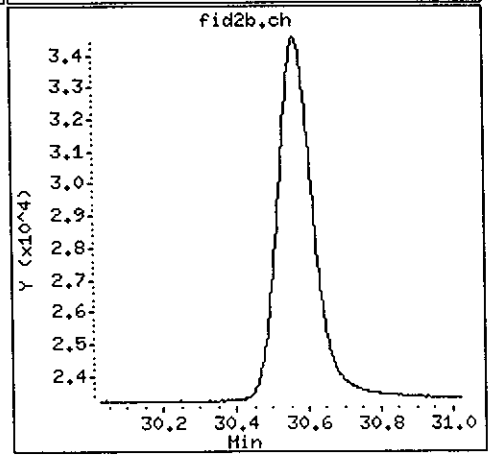


* 21 Fluorobenzene



\$ 39 4-bromofluorobenzene





PEL Laboratories

Data file : \\REINHARD\ee\chem\vgc6.i\V6102501.b\94-11.D
Lab Smp Id: 211009411 Client Smp ID: 062B106S101801
Inj Date : 25-OCT-2001 20:15
Operator : Inst ID: vgc6.i
Smp Info : 211009411
Misc Info :
Comment :
Method : \\REINHARD\ee\chem\vgc6.i\V6102501.b\8021S.m
Meth Date : 30-Oct-2001 15:10 kavita Quant Type: ISTD
Cal Date : 23-OCT-2001 23:22 Cal File: 500PPT.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: cto-062.sub
Target Version: 4.04
Processing Host: REINHARD

Concentration Formula: Amt * DF * 5/(ws*(1-(m/100)))

Name	Value	Description
DF	1.000	Dilution Factor
ws	5.058	weight in grams
m	9.100	

Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/kg)
* 21 Fluorobenzene	FID2B	15.006	14.980	(1.000)	92622	30.0000	
$ 39 4-bromofluorobenzene	FID2B	30.560	30.523	(2.036)	67296	12.6811	13.8(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

PEL Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vgc6.i
Lab File ID: 94-11.D
Lab Smp Id: 211009411
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\REINHARD\ee\chem\vgc6.i\V6102501.b\8021S.m
Misc Info:

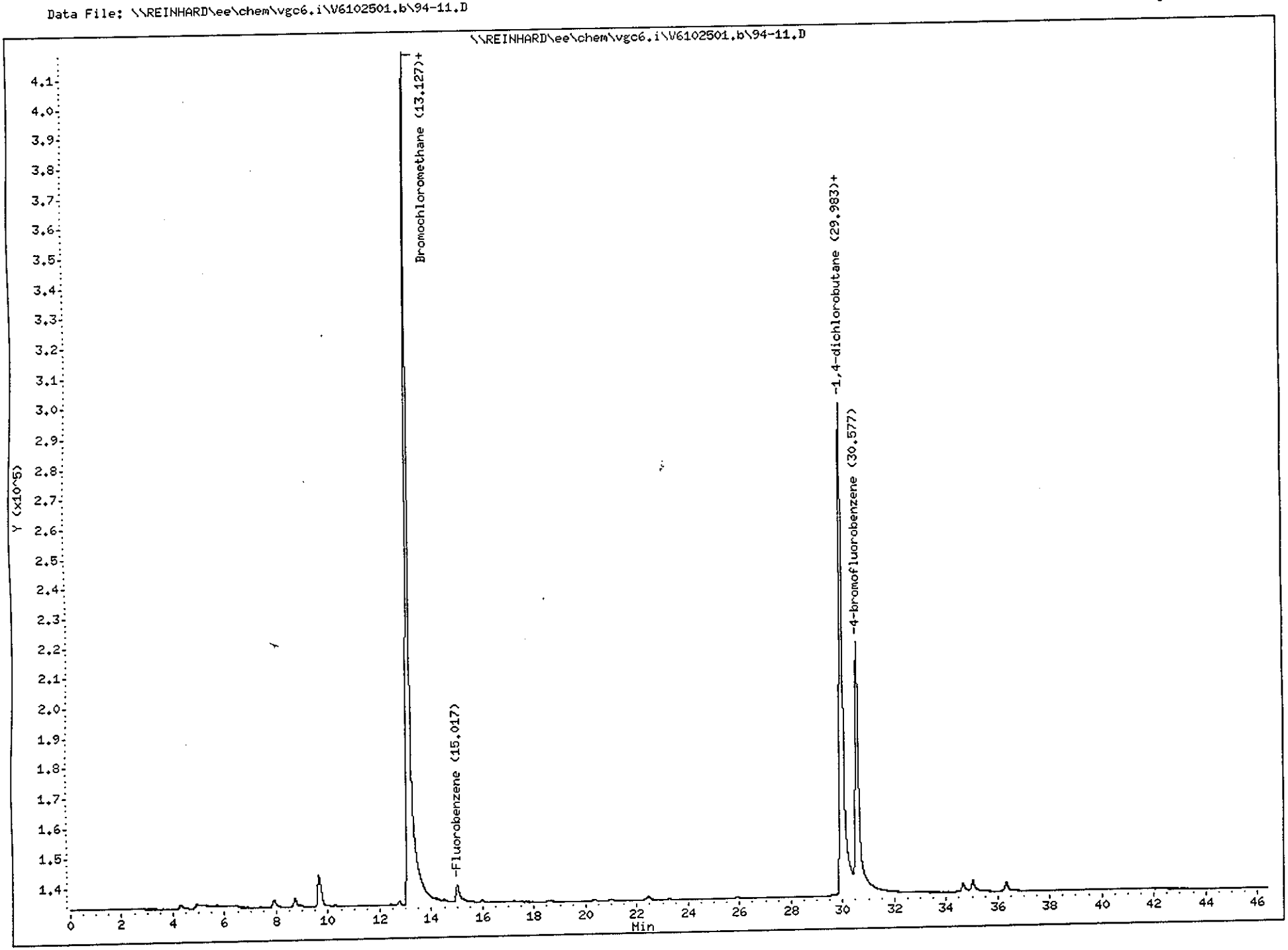
Calibration Date: 26-OCT-2001
Calibration Time: 06:01
Client Smp ID: 062B106S101801
Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	85803	42902	171606	92622	7.95

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	14.98	14.48	15.48	15.01	0.18

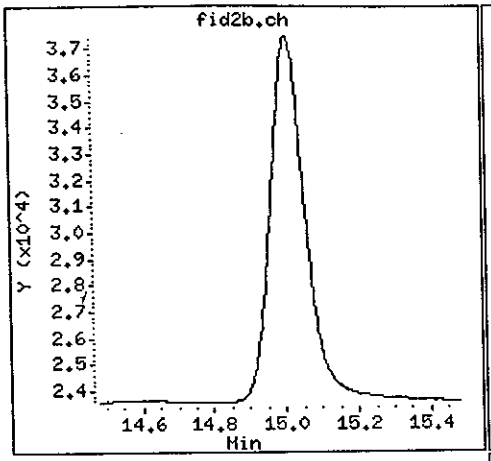
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\REINHARD\ee\chem\vgc6.i\V6102501.b\94-11.D

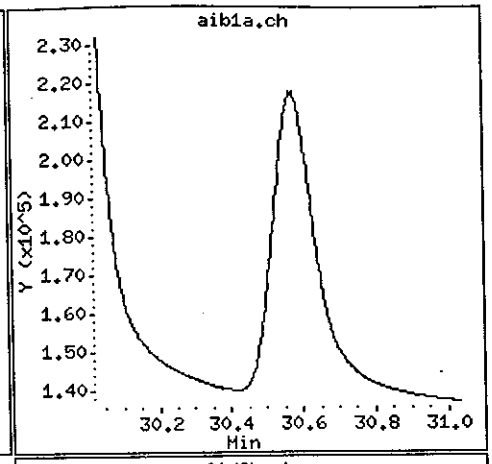


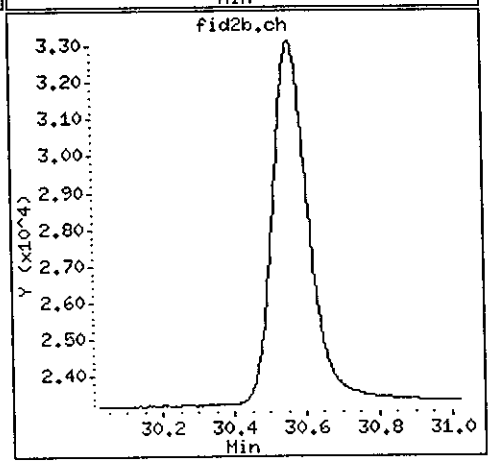
Data File: \\REINHARD\ee\chem\vgo6.i\V6102501.b\94-11.D

* 21 Fluorobenzene



$ 39 4-bromofluorobenzene





PEL Laboratories

Data file : \\REINHARD\ee\chem\vgc6.i\V6102501.b\CCV63.D
Lab Smp Id: 1025CCV63 Client Smp ID: 1025CCV63
Inj Date : 25-OCT-2001 21:09
Operator : Inst ID: vgc6.i
Smp Info : 1025CCV63
Misc Info :
Comment :
Method : \\REINHARD\ee\chem\vgc6.i\V6102501.b\8021S.m
Meth Date : 30-Oct-2001 15:10 kavita Quant Type: ISTD
Cal Date : 23-OCT-2001 23:22 Cal File: 500PPT.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: cto-062.sub
Target Version: 4.04
Processing Host: REINHARD

Concentration Formula: Amt * DF * 5/(ws*(1-(m/100)))

Name	Value	Description
DF	1.000	Dilution Factor
ws	5.000	weight in grams
m	0.000	

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/kg)
	10 MTBE	FID2B	9.936	9.910	(0.662)	55888	25.8545	25.8(M)
	20 Benzene	FID2B	14.573	14.546	(0.971)	189404	31.8753	31.9
*	21 Fluorobenzene	FID2B	15.006	14.980	(1.000)	90873	30.0000	
	26 Toluene	FID2B	19.736	19.700	(1.315)	171738	30.6602	30.7
	33 Ethylbenzene	FID2B	26.100	26.063	(1.739)	159662	29.8245	29.8
	34 m,p-xylene	FID2B	26.423	26.386	(1.761)	346689	57.5012	57.5
	35 o-xylene	FID2B	28.186	28.150	(1.878)	142216	29.8002	29.8
$	39 4-bromofluorobenzene	FID2B	30.556	30.523	(2.036)	147916	28.4094	28.4

QC Flag Legend

M - Compound response manually integrated.

PEL Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

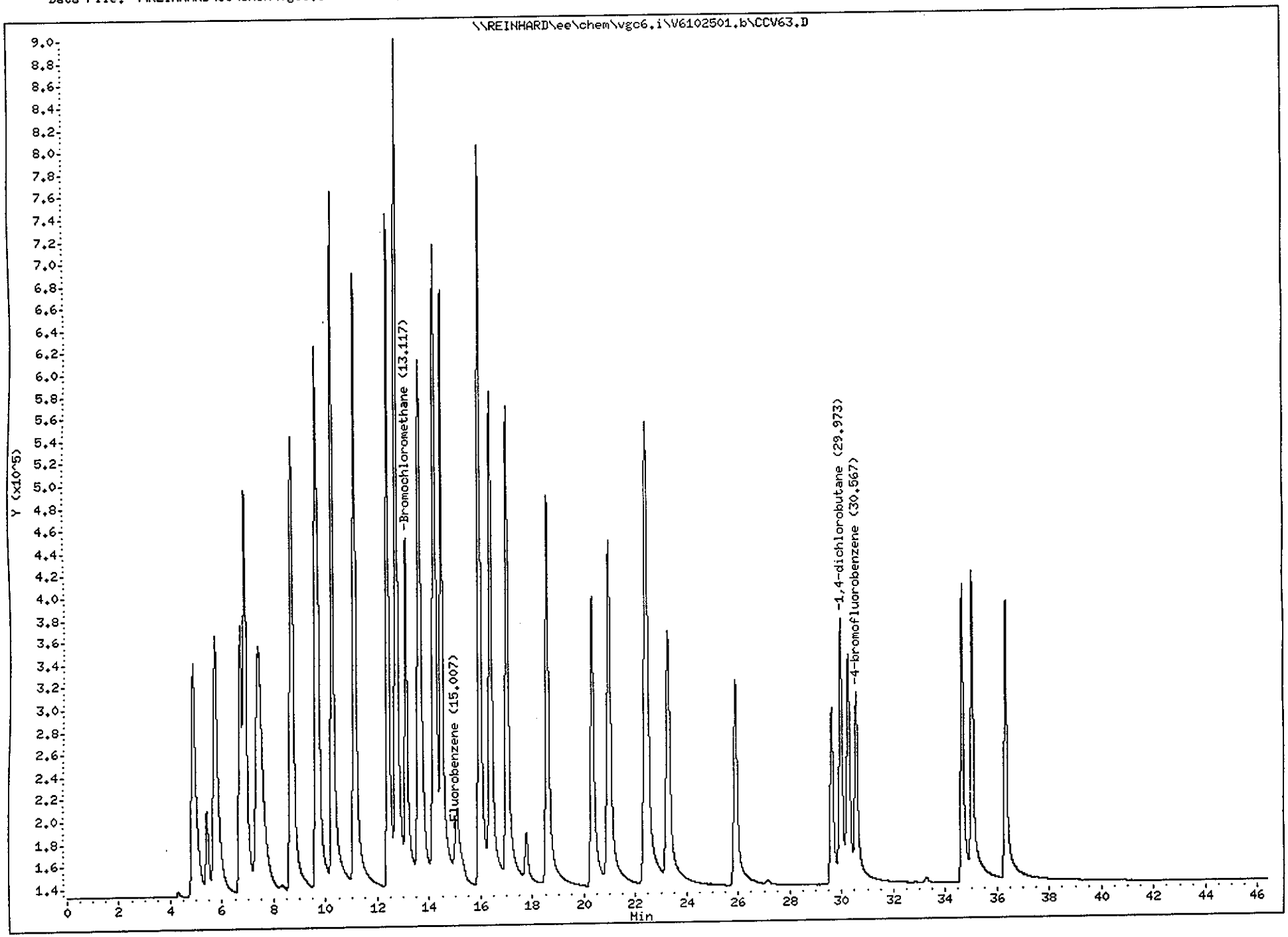
Instrument ID: vgc6.i
Lab File ID: CCV63.D
Lab Smp Id: 1025CCV63
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\REINHARD\ee\chem\vgc6.i\V6102501.b\8021S.m
Misc Info:

Calibration Date: 26-OCT-2001
Calibration Time: 06:01
Client Smp ID: 1025CCV63
Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	85803	42902	171606	90873	5.91

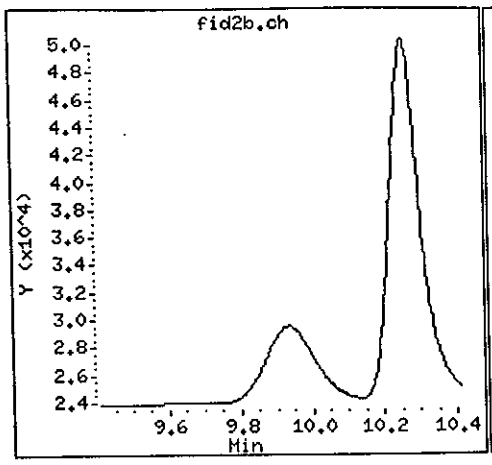
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	14.98	14.48	15.48	15.01	0.18

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.

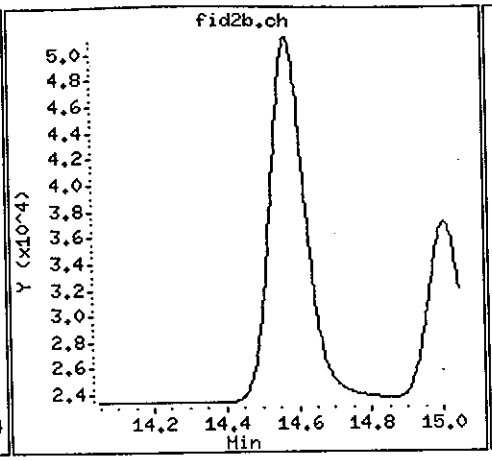

\\REINHARD\ee\chem\vgc6.i\V6102501.b\CCV63.D
Y (x10^5)
Min
-Bromochloromethane (13.117)
-Fluorobenzene (15.007)
-1,4-dichlorobutane (29.973)
-4-bromofluorobenzene (30.567)

Data File: \\REINHARD\ee\chem\vgc6.i\V6102501.b\CCV63.D

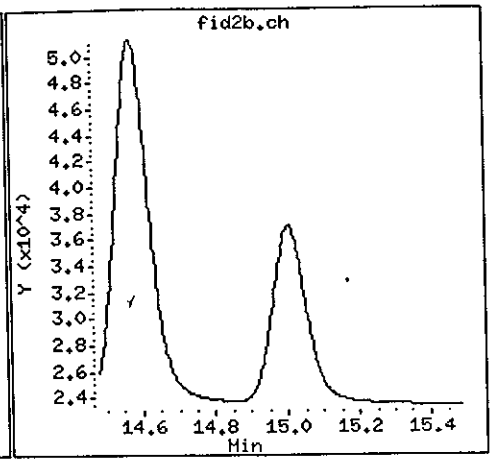
10 MTBE



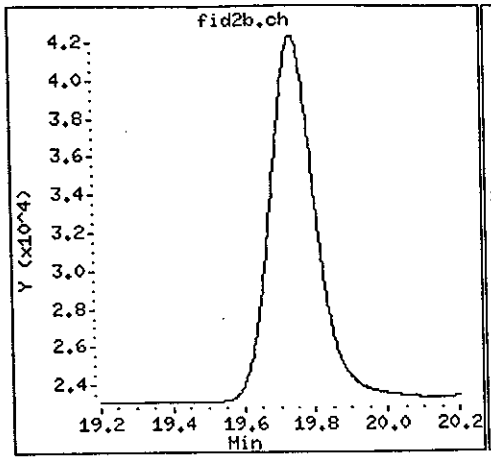
20 Benzene



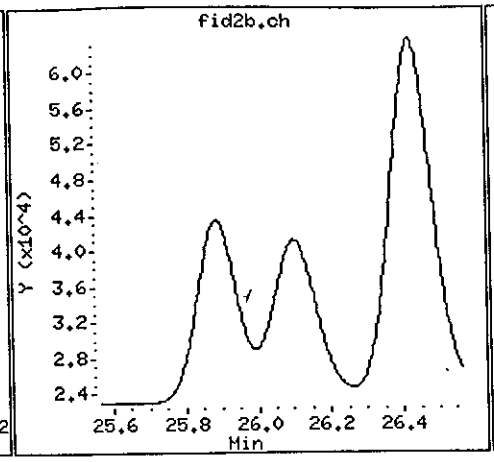
× 21 Fluorobenzene



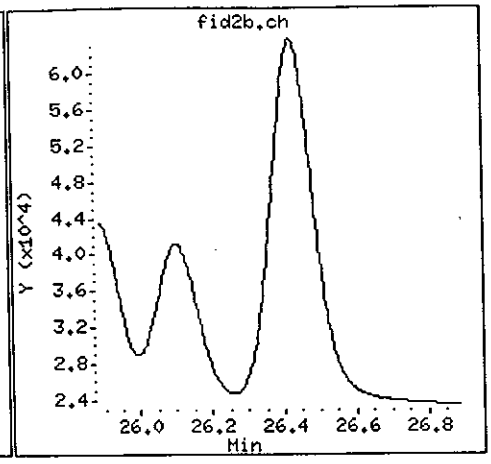
26 Toluene



33 Ethylbenzene

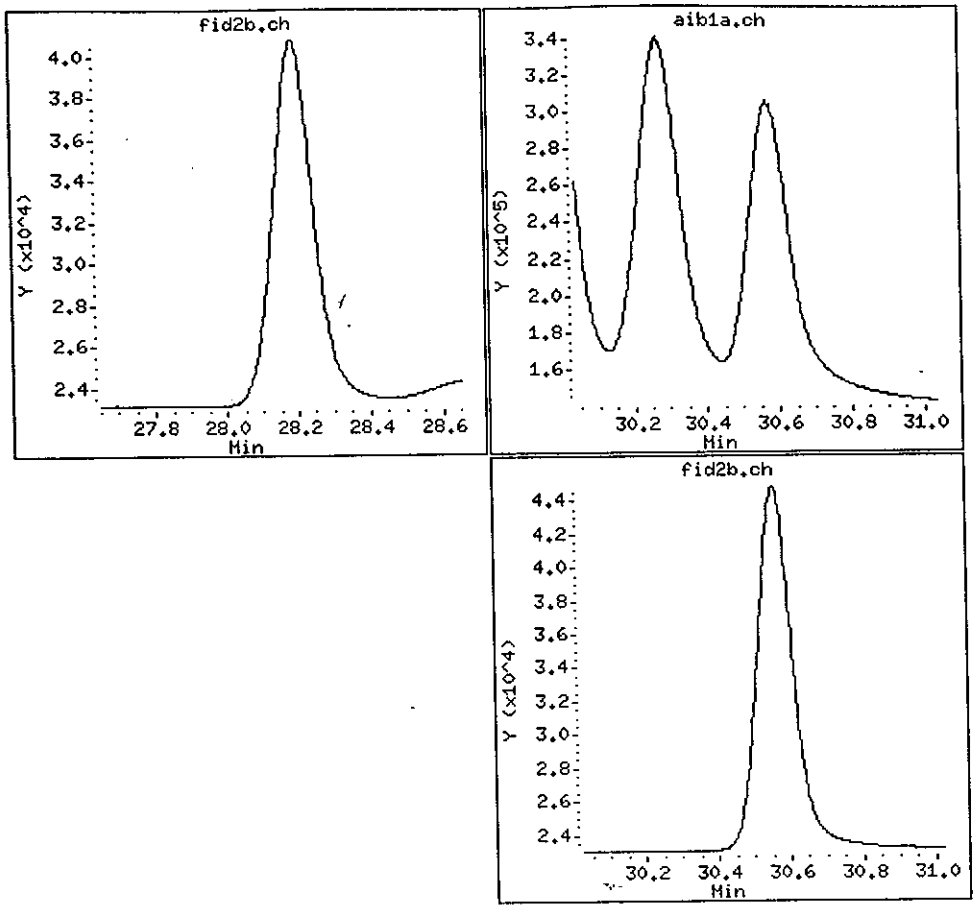


34 m,p-xylene



35 o-xylene

$ 39 4-bromofluorobenzene



PEL Laboratories

Data file : \\REINHARD\ee\chem\vgc6.i\V6102501.b\94-12.D
Lab Smp Id: 211009412 Client Smp ID: 062B110S101801
Inj Date : 25-OCT-2001 22:56
Operator : Inst ID: vgc6.i
Smp Info : 211009412
Misc Info :
Comment :
Method : \\REINHARD\ee\chem\vgc6.i\V6102501.b\8021S.m
Meth Date : 30-Oct-2001 15:10 kavita Quant Type: ISTD
Cal Date : 23-OCT-2001 23:22 Cal File: 500PPT.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: cto-062.sub
Target Version: 4.04
Processing Host: REINHARD

Concentration Formula: Amt * DF * 5/(ws*(1-(m/100)))

Name	Value	Description
DF	1.000	Dilution Factor
ws	5.725	weight in grams
m	12.500	

Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/kg)
* 21 Fluorobenzene	FID2B	14.996	14.980	(1.000)	93372	30.0000	
$ 39 4-bromofluorobenzene	FID2B	30.543	30.523	(2.037)	111042	20.7564	20.7(QR)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

PEL Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vgc6.i
Lab File ID: 94-12.D
Lab Smp Id: 211009412
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\REINHARD\ee\chem\vgc6.i\V6102501.b\8021S.m
Misc Info:

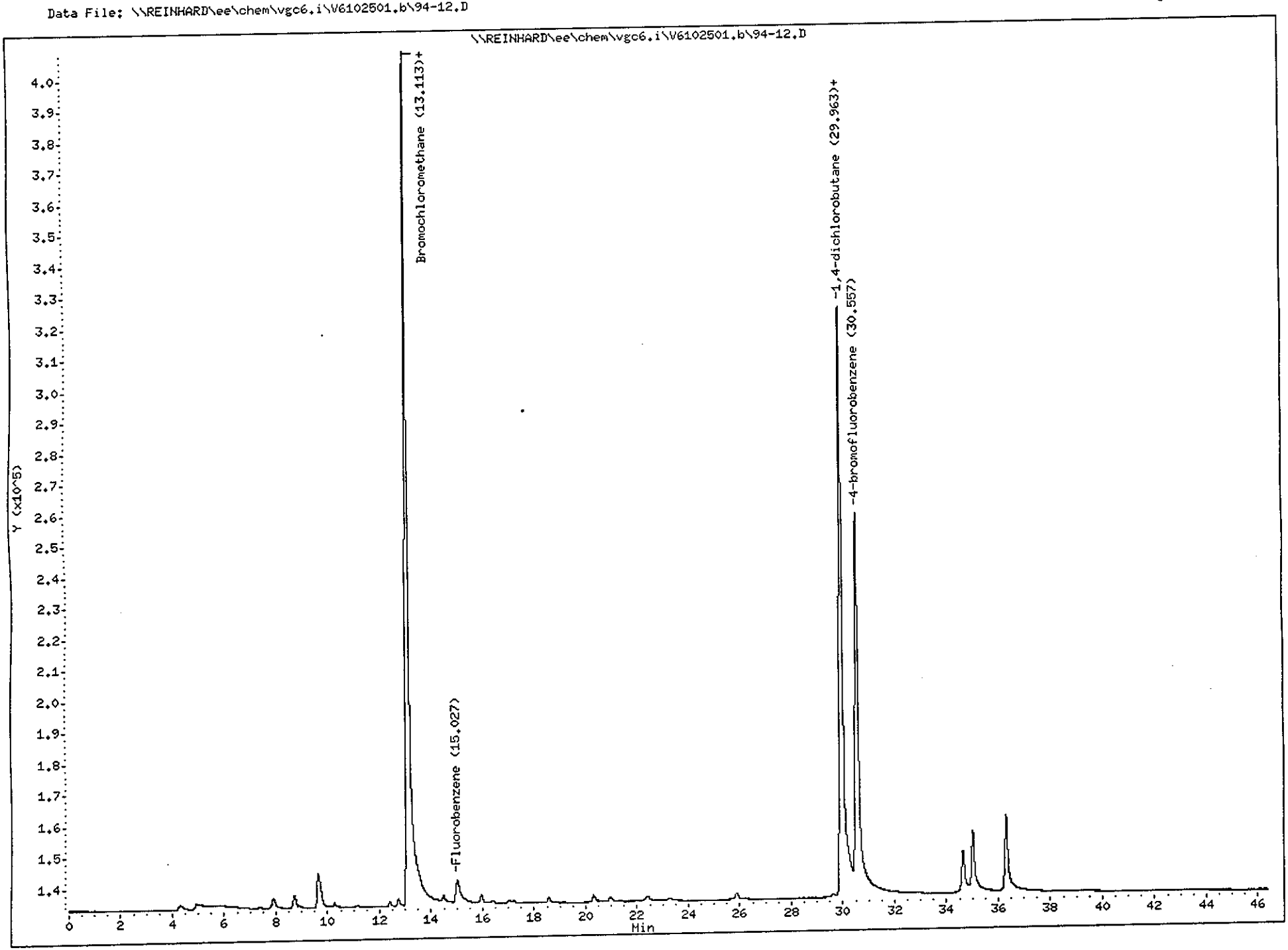
Calibration Date: 26-OCT-2001
Calibration Time: 06:01
Client Smp ID: 062B110S101801
Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	85803	42902	171606	93372	8.82

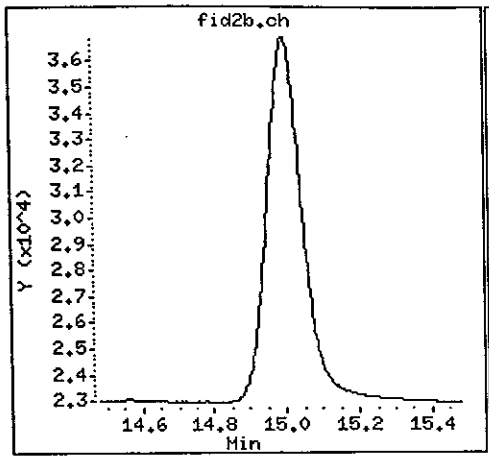
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	14.98	14.48	15.48	15.00	0.11

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

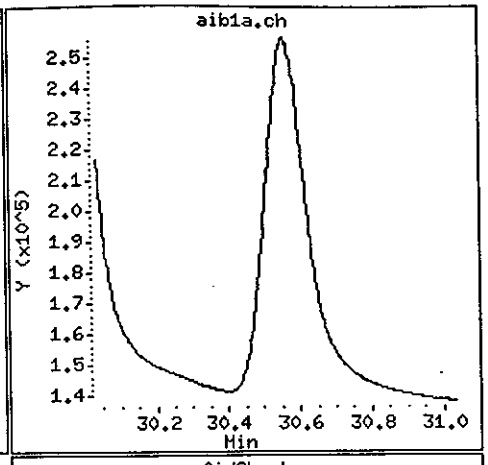
Data File: \\REINHARD\ee\chem\vgc6.i\V6102501.b\94-12.D

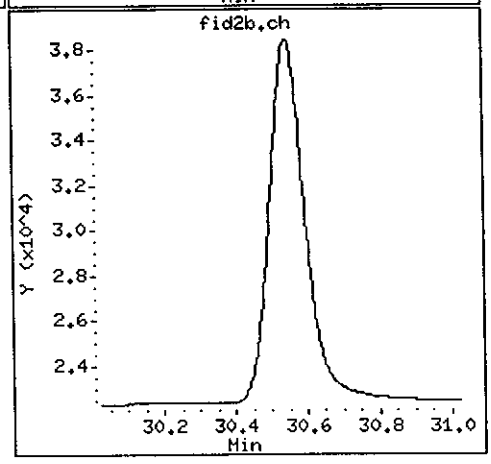


× 21 Fluorobenzene



$ 39 4-bromofluorobenzene





PEL Laboratories

Data file : \\REINHARD\ee\chem\vgc6.i\V6102501.b\94-13.D
Lab Smp Id: 211009413 Client Smp ID: 062B137S101801
Inj Date : 25-OCT-2001 23:49
Operator : Inst ID: vgc6.i
Smp Info : 211009413
Misc Info :
Comment :
Method : \\REINHARD\ee\chem\vgc6.i\V6102501.b\8021S.m
Meth Date : 30-Oct-2001 15:10 kavita Quant Type: ISTD
Cal Date : 23-OCT-2001 23:22 Cal File: 500PPT.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: cto-062.sub
Target Version: 4.04
Processing Host: REINHARD

Concentration Formula: Amt * DF * 5/(ws*(1-(m/100)))

Name	Value	Description
DF	1.000	Dilution Factor
ws	4.554	weight in grams
m	10.900	

Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/kg)
* 21 Fluorobenzene	FID2B	14.993	14.980	(1.000)	92114	30.0000	
$ 39 4-bromofluorobenzene	FID2B	30.543	30.523	(2.037)	44839	8.49596	10.5(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

PEL Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vgc6.i
Lab File ID: 94-13.D
Lab Smp Id: 211009413
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\REINHARD\ee\chem\vgc6.i\V6102501.b\8021S.m
Misc Info:

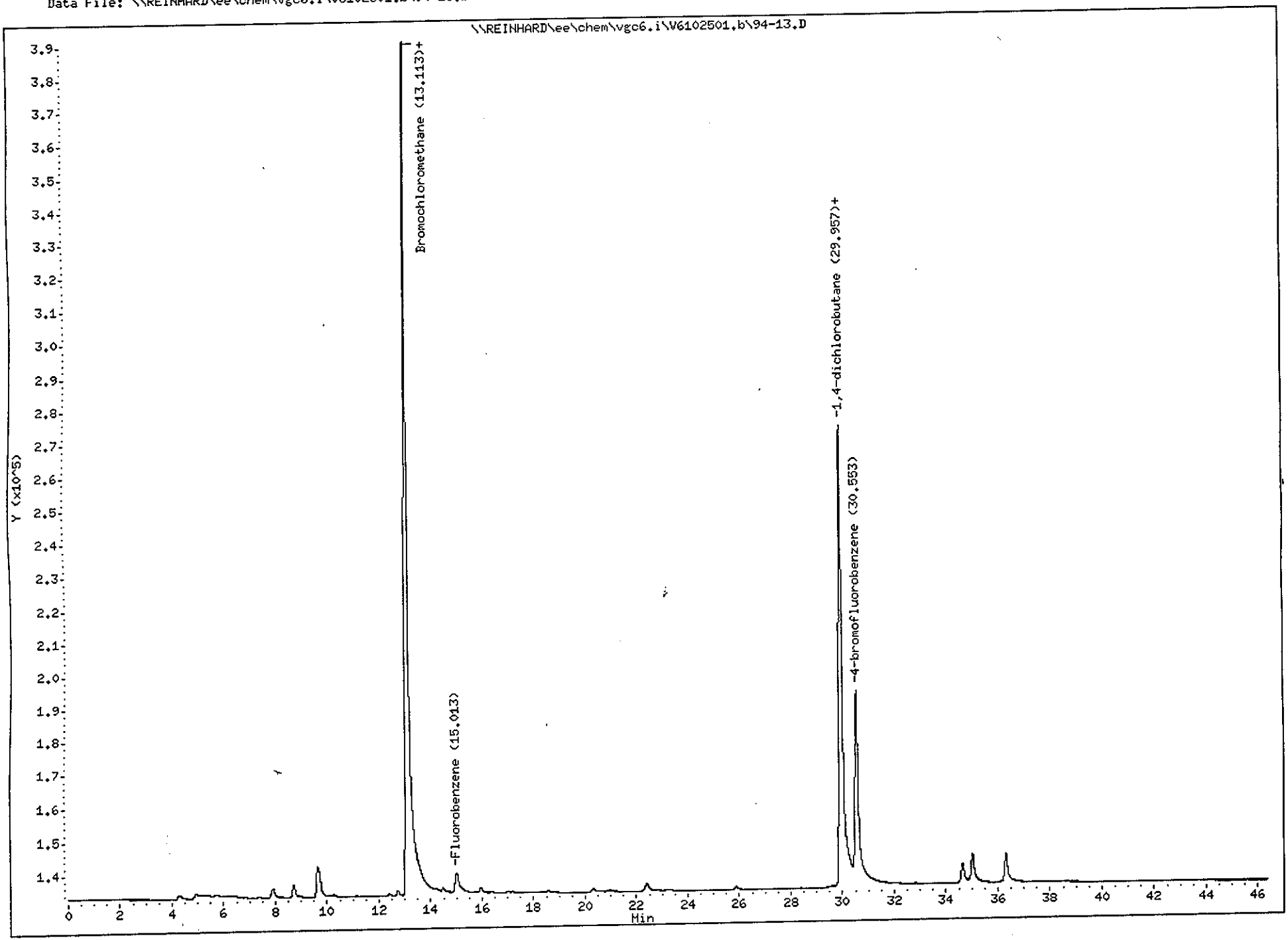
Calibration Date: 26-OCT-2001
Calibration Time: 06:01
Client Smp ID: 062B137S101801
Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	85803	42902	171606	92114	7.36

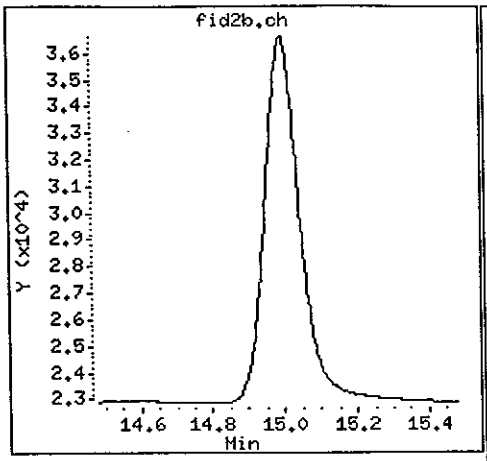
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	14.98	14.48	15.48	14.99	0.09

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

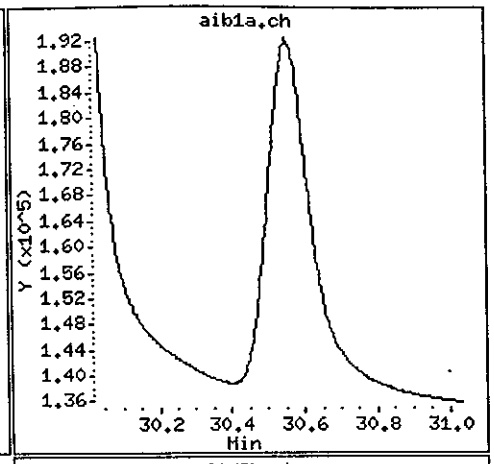
Data File: \\REINHARD\ee\chem\vgc6.i\V6102501.b\94-13.D

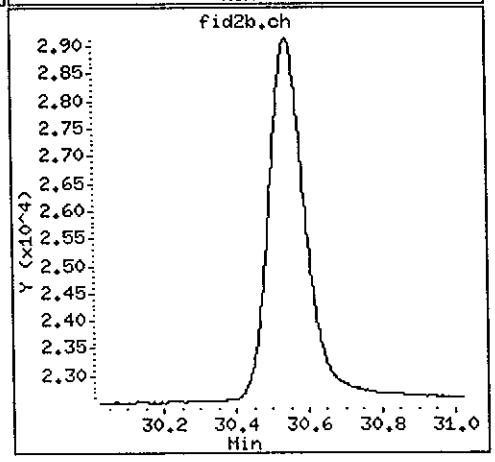


* 21 Fluorobenzene



\$ 39 4-bromofluorobenzene





PEL Laboratories

Data file : \\REINHARD\ee\chem\vgc6.i\V6102501.b\94-14.D
Lab Smp Id: 211009414 Client Smp ID: 062B146S101801
Inj Date : 26-OCT-2001 00:42
Operator : Inst ID: vgc6.i
Smp Info : 211009414
Misc Info :
Comment :
Method : \\REINHARD\ee\chem\vgc6.i\V6102501.b\8021S.m
Meth Date : 30-Oct-2001 15:10 kavita Quant Type: ISTD
Cal Date : 23-OCT-2001 23:22 Cal File: 500PPT.D
Als bottle: 17
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: cto-062.sub
Target Version: 4.04
Processing Host: REINHARD

Concentration Formula: Amt * DF * 5/(ws*(1-(m/100)))

Name	Value	Description
DF	1.000	Dilution Factor
ws	4.339	weight in grams
m	6.700	

Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/kg)
* 21 Fluorobenzene	FID2B	14.990	14.980	(1.000)	91294	30.0000	
$ 39 4-bromofluorobenzene	FID2B	30.540	30.523	(2.037)	58267	11.1394	13.8(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

PEL Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

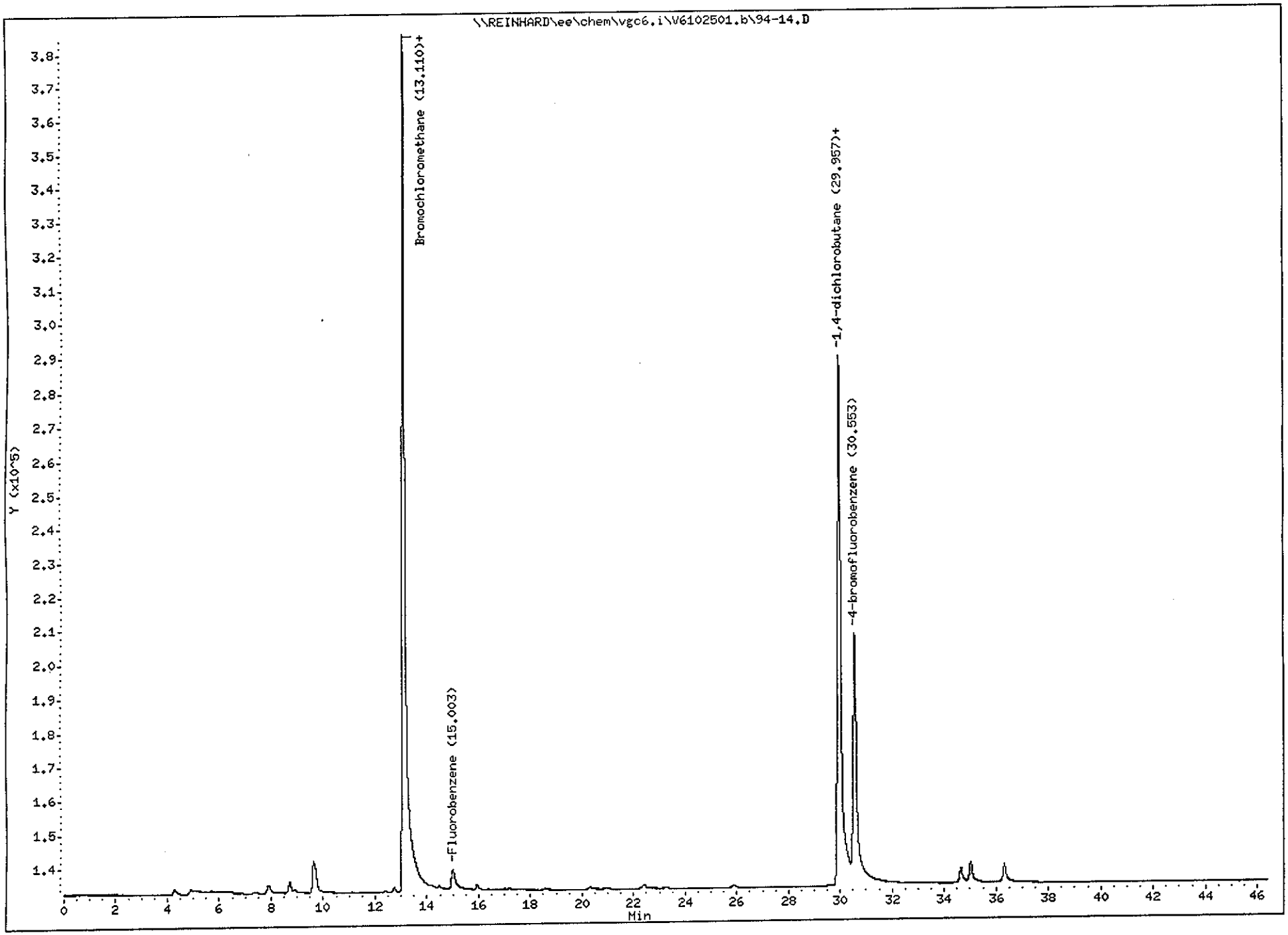
Instrument ID: vgc6.i
Lab File ID: 94-14.D
Lab Smp Id: 211009414
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\REINHARD\ee\chem\vgc6.i\V6102501.b\8021S.m
Misc Info:

Calibration Date: 26-OCT-2001
Calibration Time: 06:01
Client Smp ID: 062B146S101801
Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	85803	42902	171606	91294	6.40

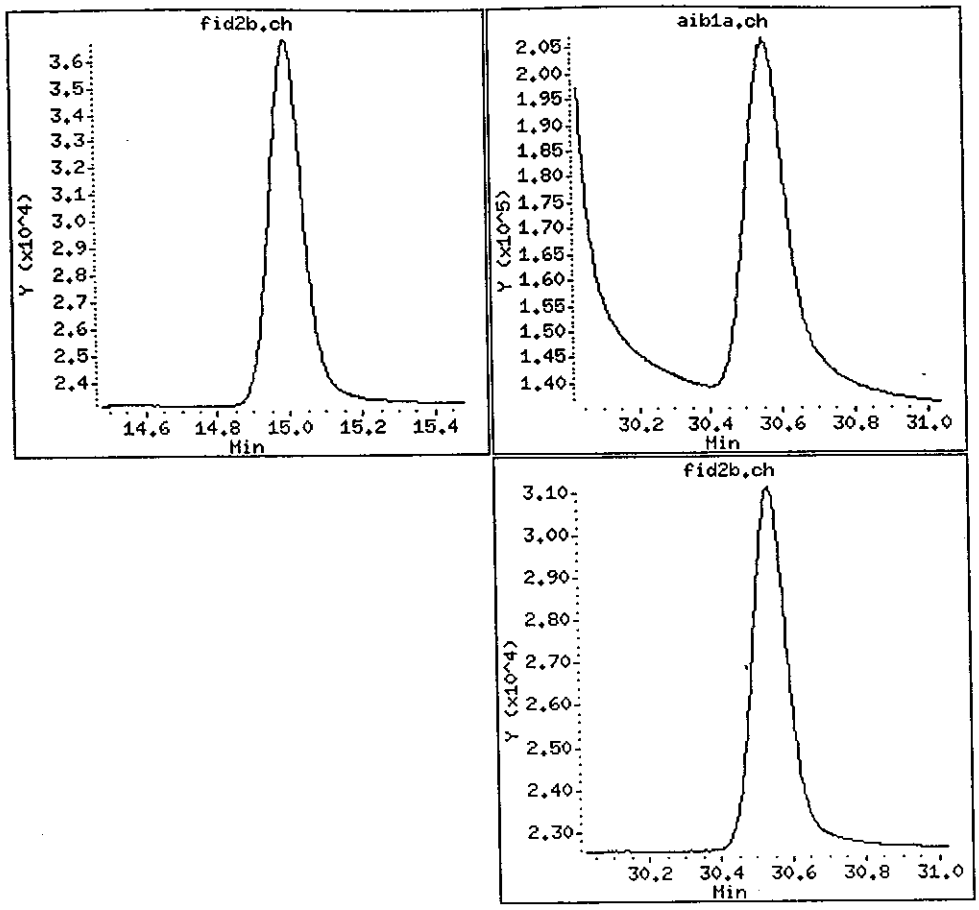
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	14.98	14.48	15.48	14.99	0.07

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.


\\REINHARD\ee\chem\vgc6.i\V6102501.b\94-14.D
Bromochloromethane (13.110)+
-Fluorobenzene (15.003)
-1,4-dichlorobutane (29.957)+
-4-bromofluorobenzene (30.553)
Y (x10^5)
Min

* 21 Fluorobenzene

$ 39 4-bromofluorobenzene



PEL Laboratories

Data file : \\REINHARD\ee\chem\vgc6.i\V6102501.b\94-15.D
Lab Smp Id: 211009415 Client Smp ID: 062B158S101801
Inj Date : 26-OCT-2001 01:35
Operator : Inst ID: vgc6.i
Smp Info : 211009415
Misc Info :
Comment :
Method : \\REINHARD\ee\chem\vgc6.i\V6102501.b\8021S.m
Meth Date : 30-Oct-2001 15:10 kavita Quant Type: ISTD
Cal Date : 23-OCT-2001 23:22 Cal File: 500PPT.D
Als bottle: 18
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: cto-062.sub
Target Version: 4.04
Processing Host: REINHARD

Concentration Formula: Amt * DF * 5/(ws*(1-(m/100)))

Name	Value	Description
DF	1.000	Dilution Factor
ws	4.802	weight in grams
m	15.800	

Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/kg)
* 21 Fluorobenzene	FID2B	14.993	14.980	(1.000)	91561	30.0000	
$ 39 4-bromofluorobenzene	FID2B	30.546	30.523	(2.037)	133504	25.4487	31.5(Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.

PEL Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vgc6.i
Lab File ID: 94-15.D
Lab Smp Id: 211009415
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\REINHARD\ee\chem\vgc6.i\V6102501.b\8021S.m
Misc Info:

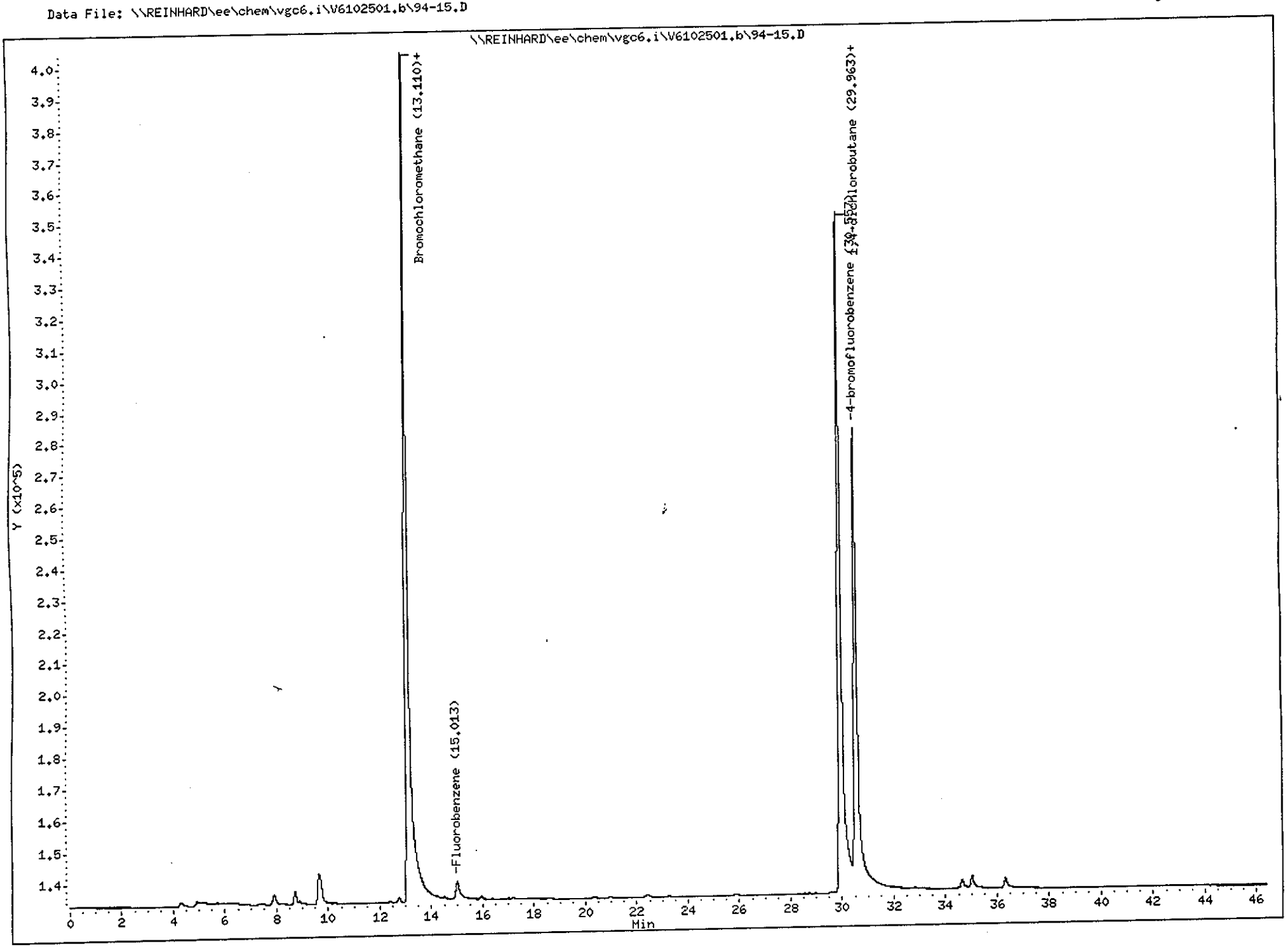
Calibration Date: 26-OCT-2001
Calibration Time: 06:01
Client Smp ID: 062B158S101801
Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	85803	42902	171606	91561	6.71

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	14.98	14.48	15.48	14.99	0.09

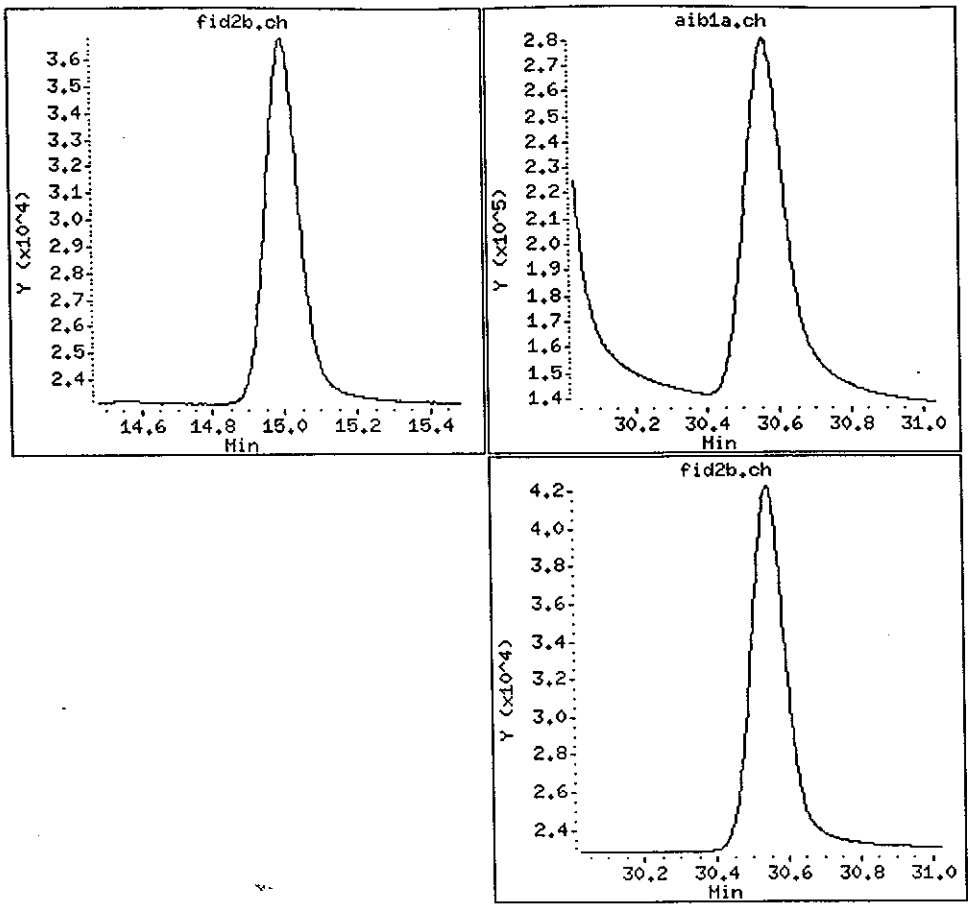
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\REINHARD\ee\chem\vgc6.i\V6102501.b\94-15.D



✖ 21 Fluorobenzene

$ 39 4-bromofluorobenzene



PEL Laboratories

Data file : \\REINHARD\ee\chem\vgc6.i\V6102501.b\94-16.D
Lab Smp Id: 211009416 Client Smp ID: 062B167S101801
Inj Date : 26-OCT-2001 02:28
Operator : Inst ID: vgc6.i
Smp Info : 211009416
Misc Info :
Comment :
Method : \\REINHARD\ee\chem\vgc6.i\V6102501.b\8021S.m
Meth Date : 30-Oct-2001 15:10 kavita Quant Type: ISTD
Cal Date : 23-OCT-2001 23:22 Cal File: 500PPT.D
Als bottle: 19
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: cto-062.sub
Target Version: 4.04
Processing Host: REINHARD

Concentration Formula: Amt * DF * 5/(ws*(1-(m/100)))

Name	Value	Description
DF	1.000	Dilution Factor
ws	6.015	weight in grams
m	12.800	

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/kg)
	10 MTBE	FID2B	9.880	9.910	(0.658)	13949	3.52099	3.4
	20 Benzene	FID2B	14.470	14.546	(0.964)	328593	30.1736	28.8
*	21 Fluorobenzene	FID2B	15.013	14.980	(1.000)	166545	30.0000	
	26 Toluene	FID2B	19.933	19.700	(1.328)	201117	19.5912	18.7
	33 Ethylbenzene	FID2B	26.143	26.063	(1.741)	9968040	1015.98	968(A)
	34 m,p-xylene	FID2B	26.520	26.386	(1.766)	12701358	1149.45	1100(A)
	35 o-xylene	FID2B	28.266	28.150	(1.883)	1384205	158.261	151(A)
$	39 4-bromofluorobenzene	FID2B	30.546	30.523	(2.035)	119639	12.5379	12.0(QR)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

PEL Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vgc6.i
Lab File ID: 94-16.D
Lab Smp Id: 211009416
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\REINHARD\ee\chem\vgc6.i\V6102501.b\8021S.m
Misc Info:

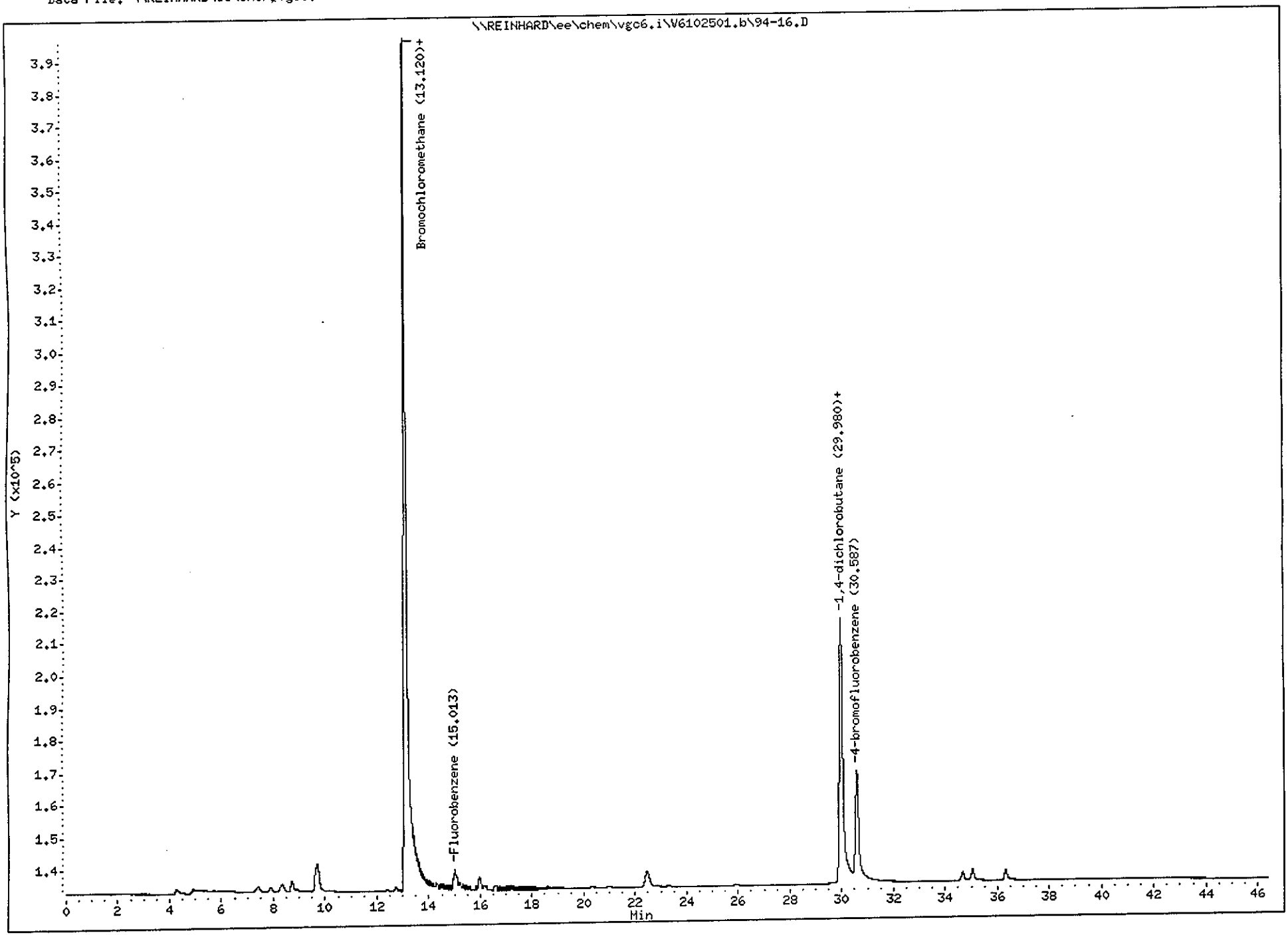
Calibration Date: 26-OCT-2001
Calibration Time: 06:01
Client Smp ID: 062B167S101801
Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	85803	42902	171606	166545	94.10

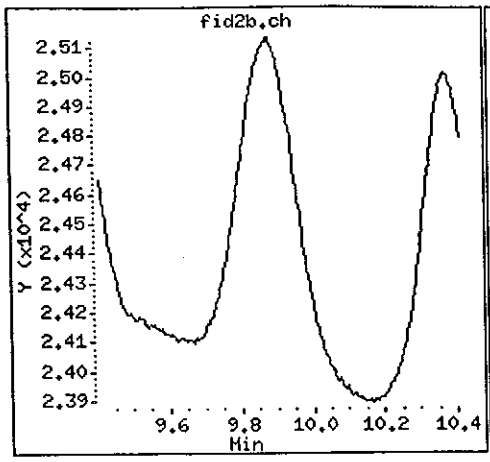
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	14.98	14.48	15.48	15.01	0.22

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

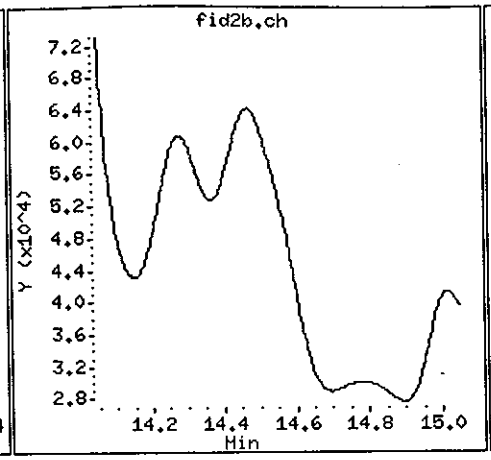
Data File: \\REINHARD\ee\chem\vgc6.i\V6102501.b\94-16.D



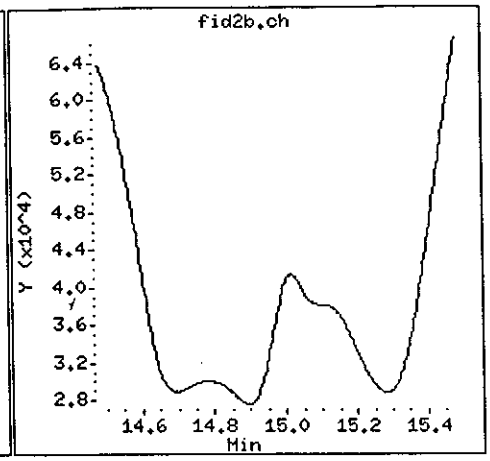
10 MTBE



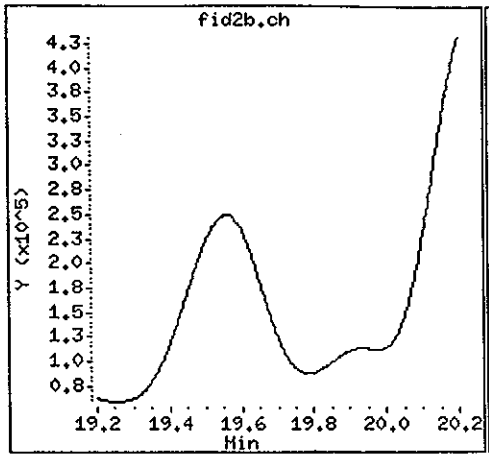
20 Benzene



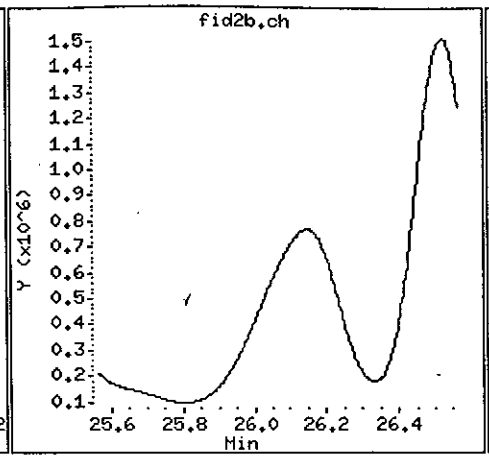
× 21 Fluorobenzene



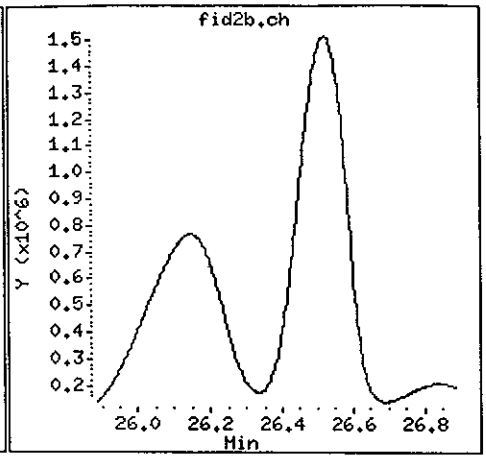
26 Toluene



33 Ethylbenzene

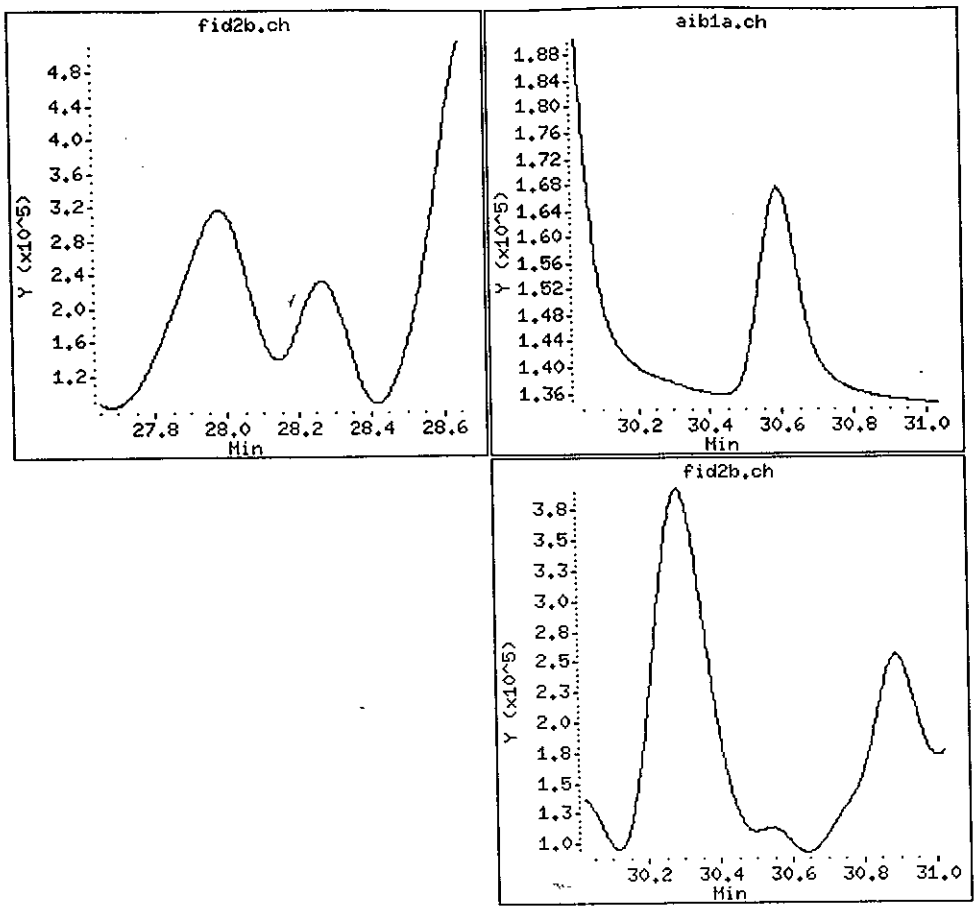


34 m,p-xylene



35 o-xylene

$ 39 4-bromofluorobenzene



PEL Laboratories

Data file : \\REINHARD\ee\chem\vgc6.i\V6102501.b\94-17.D
Lab Smp Id: 211009417 Client Smp ID: 062B189S101801
Inj Date : 26-OCT-2001 03:22
Operator : Inst ID: vgc6.i
Smp Info : 211009417
Misc Info :
Comment :
Method : \\REINHARD\ee\chem\vgc6.i\V6102501.b\8021S.m
Meth Date : 30-Oct-2001 15:10 kavita Quant Type: ISTD
Cal Date : 23-OCT-2001 23:22 Cal File: 500PPT.D
Als bottle: 20
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: cto-062.sub
Target Version: 4.04
Processing Host: REINHARD

Concentration Formula: Amt * DF * 5/(ws*(1-(m/100)))

Name	Value	Description
DF	1.000	Dilution Factor
ws	4.899	weight in grams
m	11.500	

Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/kg)
* 21 Fluorobenzene	FID2B	14.993	14.980	(1.000)	82149	30.0000	
33 Ethylbenzene	FID2B	26.076	26.063	(1.739)	2616	0.54056	0.62(aM)
34 m,p-xylene	FID2B	26.413	26.386	(1.762)	20016	3.67237	4.2(M)
$ 39 4-bromofluorobenzene	FID2B	30.543	30.523	(2.037)	100557	21.3645	24.6(Q)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

PEL Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vgc6.i
Lab File ID: 94-17.D
Lab Smp Id: 211009417
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\REINHARD\ee\chem\vgc6.i\V6102501.b\8021S.m
Misc Info:

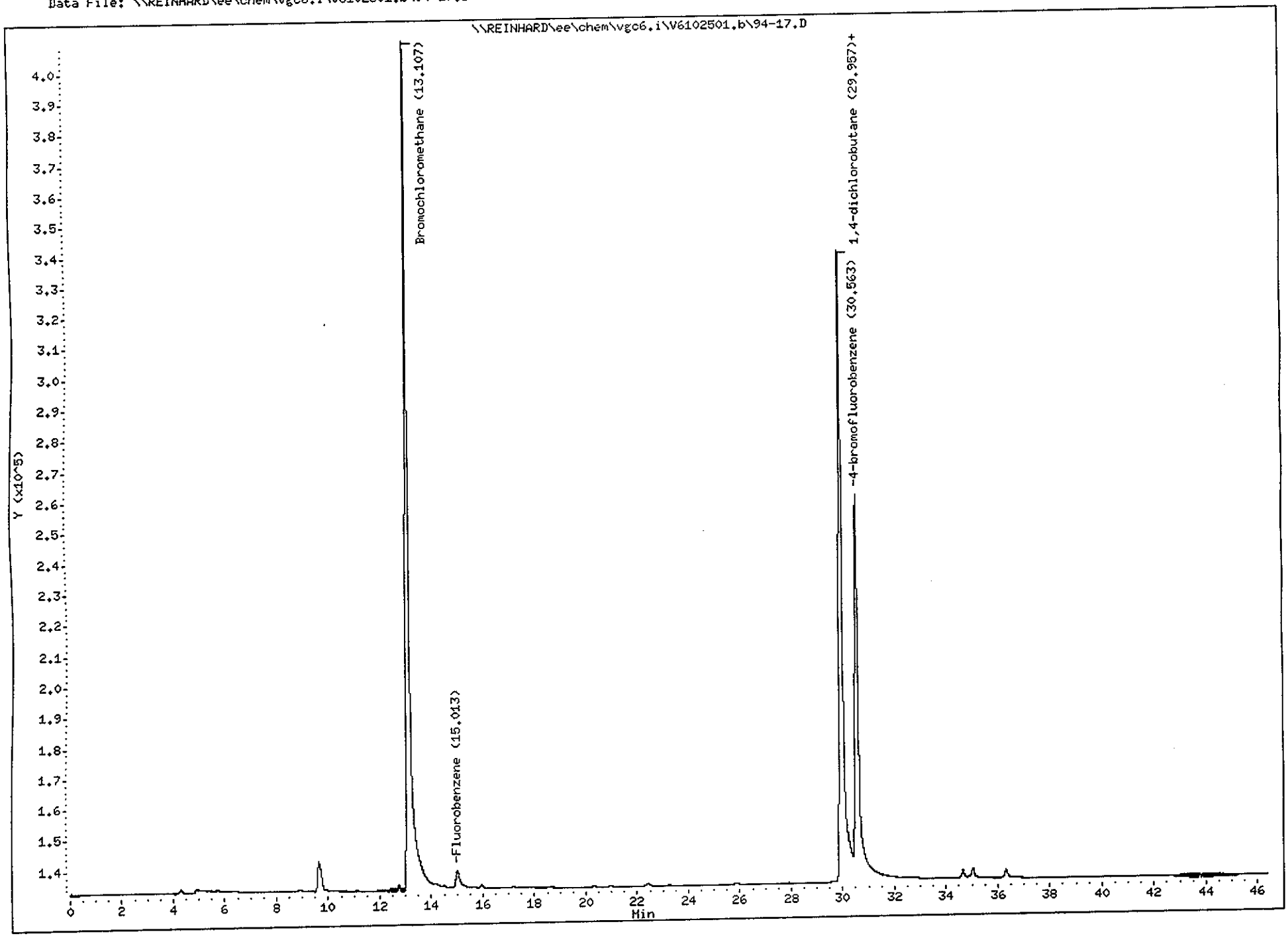
Calibration Date: 26-OCT-2001
Calibration Time: 06:01
Client Smp ID: 062B189S101801
Level: LOW
Sample Type: SOIL

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
21 Fluorobenzene	85803	42902	171606	82149	-4.26

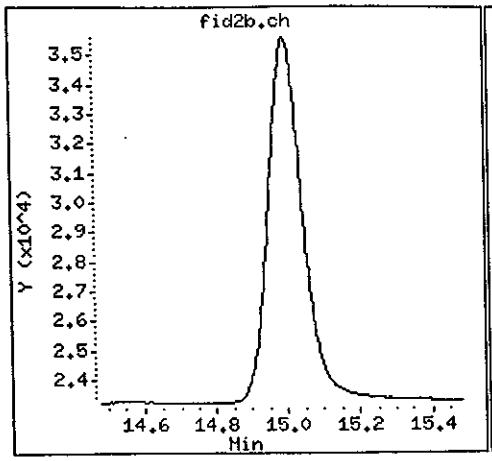
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
21 Fluorobenzene	14.98	14.48	15.48	14.99	0.09

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

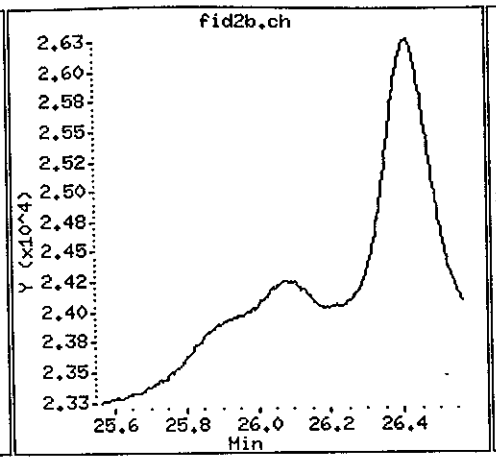
Data File: \\REINHARD\ee\chem\vgc6.i\V6102501.b\94-17.D



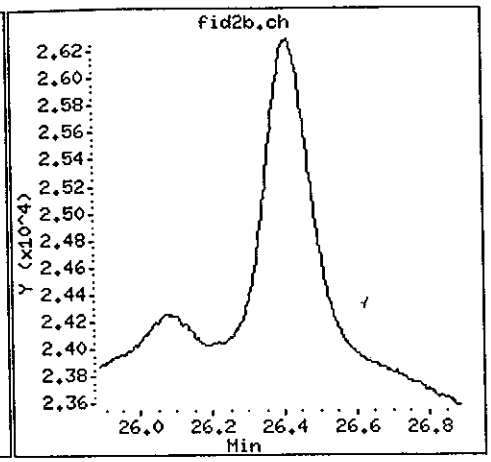
× 21 Fluorobenzene



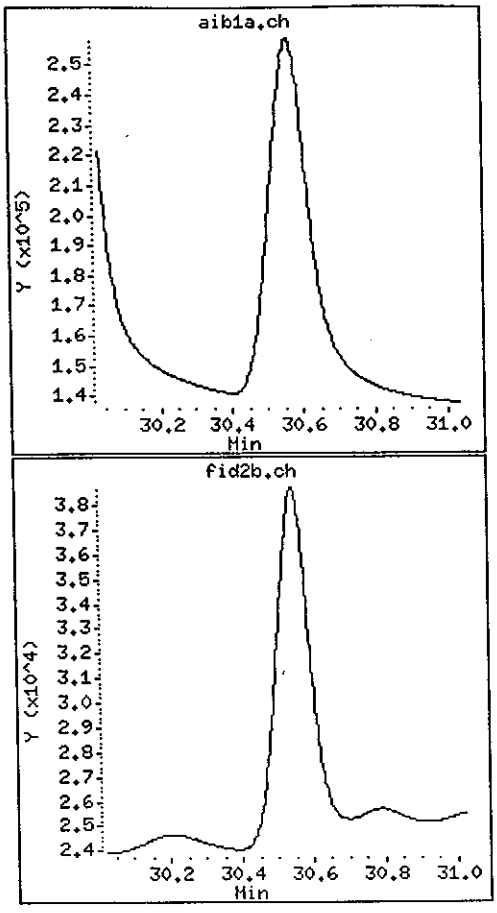
33 Ethylbenzene



34 m,p-xylene



$ 39 4-bromofluorobenzene



PEL Laboratories

Data file : \\REINHARD\ee\chem\vgc6.i\V6102501.b\94-18.D
Lab Smp Id: 211009418 Client Smp ID: 062DUP1S101801
Inj Date : 26-OCT-2001 04:15
Operator : Inst ID: vgc6.i
Smp Info : 211009418
Misc Info :
Comment :
Method : \\REINHARD\ee\chem\vgc6.i\V6102501.b\8021S.m
Meth Date : 30-Oct-2001 15:10 kavita Quant Type: ISTD
Cal Date : 23-OCT-2001 23:22 Cal File: 500PPT.D
Als bottle: 21
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: cto-062.sub
Target Version: 4.04
Processing Host: REINHARD

Concentration Formula: Amt * DF * 5/(ws*(1-(m/100)))

Name	Value	Description
DF	1.000	Dilution Factor
ws	4.902	weight in grams
m	10.500	

Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/kg)
* 21 Fluorobenzene	FID2B	14.986	14.980	(1.000)	85397	30.0000	
33 Ethylbenzene	FID2B	26.080	26.063	(1.740)	1284	0.25523	0.29(aM)
$ 39 4-bromofluorobenzene	FID2B	30.530	30.523	(2.037)	47426	9.69295	11.0(R)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

PEL Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vgc6.i
Lab File ID: 94-18.D
Lab Smp Id: 211009418
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\REINHARD\ee\chem\vgc6.i\V6102501.b\8021S.m
Misc Info:

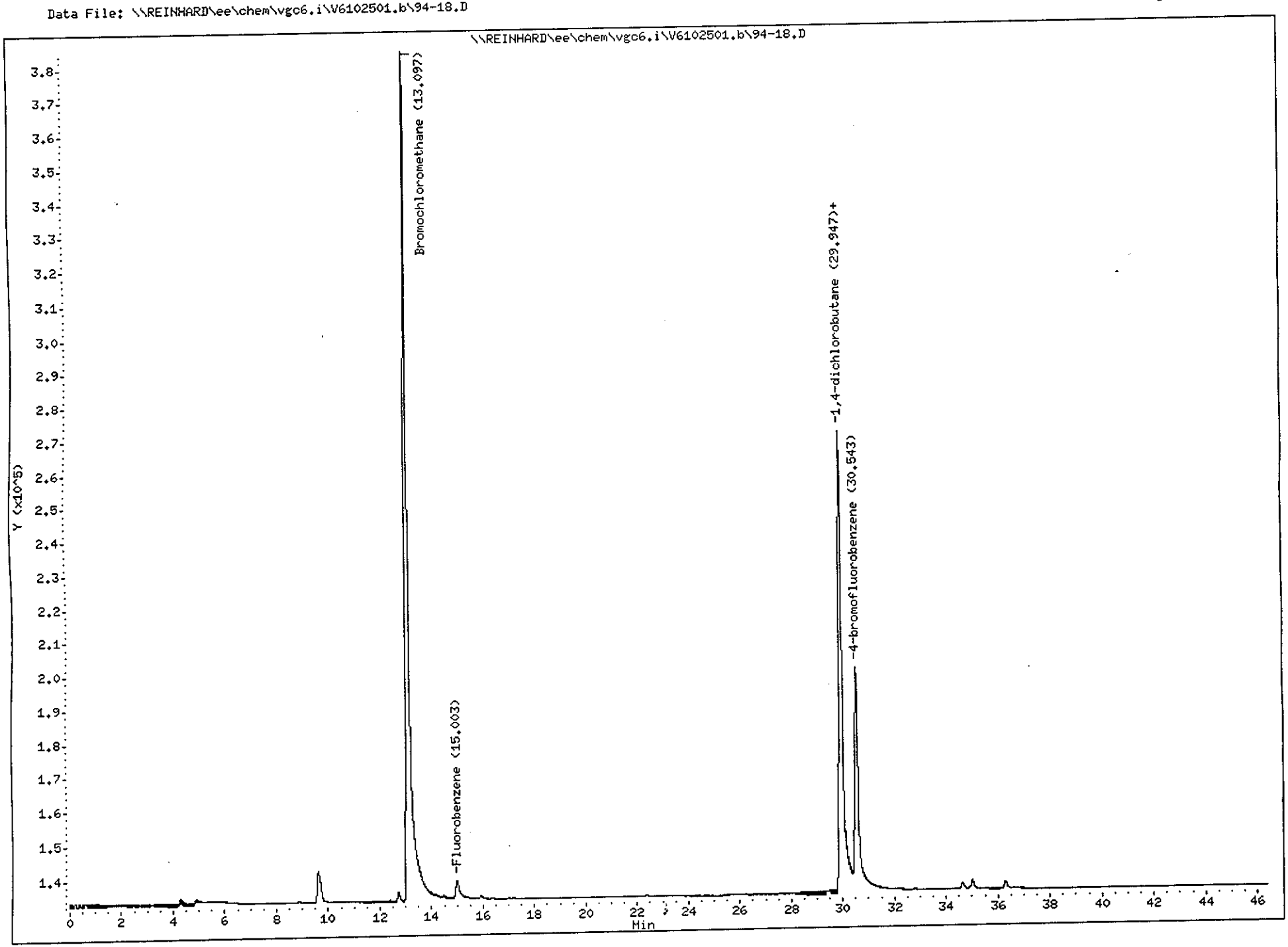
Calibration Date: 26-OCT-2001
Calibration Time: 06:01
Client Smp ID: 062DUP1S101801
Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	85803	42902	171606	85397	-0.47

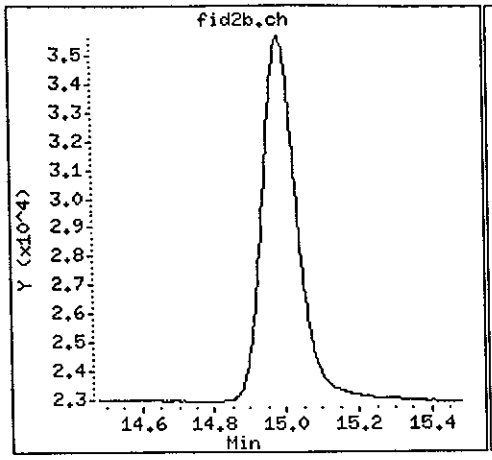
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	14.98	14.48	15.48	14.99	0.04

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

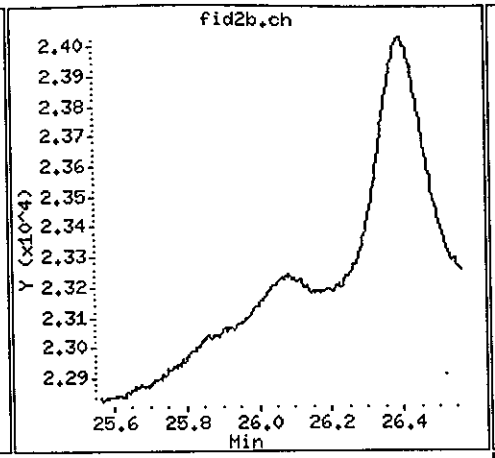
Data File: \\REINHARD\ee\chem\vgc6.i\V6102501.b\94-18.D



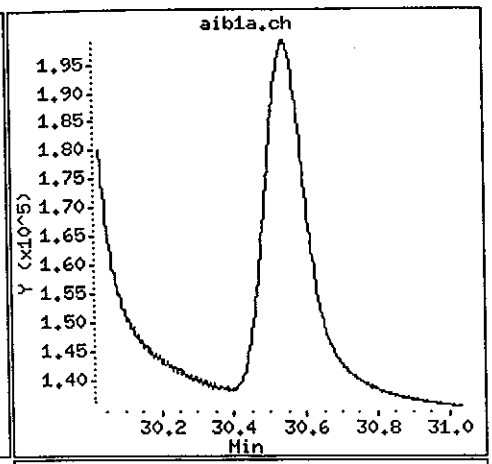
× 21 Fluorobenzene

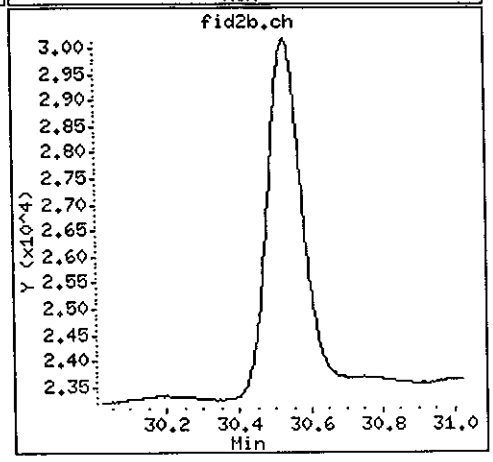


33 Ethylbenzene



‡ 39 4-bromofluorobenzene





PEL Laboratories

Data file : \\REINHARD\ee\chem\vgc6.i\V6102501.b\94-19.D
Lab Smp Id: 211009419 Client Smp ID: 062DUP2S101801
Inj Date : 26-OCT-2001 05:08
Operator : Inst ID: vgc6.i
Smp Info : 211009419
Misc Info :
Comment :
Method : \\REINHARD\ee\chem\vgc6.i\V6102501.b\8021S.m
Meth Date : 30-Oct-2001 15:10 kavita Quant Type: ISTD
Cal Date : 23-OCT-2001 23:22 Cal File: 500PPT.D
Als bottle: 22
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: cto-062.sub
Target Version: 4.04
Processing Host: REINHARD

Concentration Formula: Amt * DF * 5/(ws*(1-(m/100)))

Name	Value	Description
DF	1.000	Dilution Factor
ws	4.592	weight in grams
m	14.200	

Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/kg)
* 21 Fluorobenzene	FID2B	14.980	14.980	(1.000)	85791	30.0000	
$ 39 4-bromofluorobenzene	FID2B	30.526	30.523	(2.038)	63236	12.8648	16.3(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

PEL Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vgc6.i
Lab File ID: 94-19.D
Lab Smp Id: 211009419
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\REINHARD\ee\chem\vgc6.i\V6102501.b\8021S.m
Misc Info:

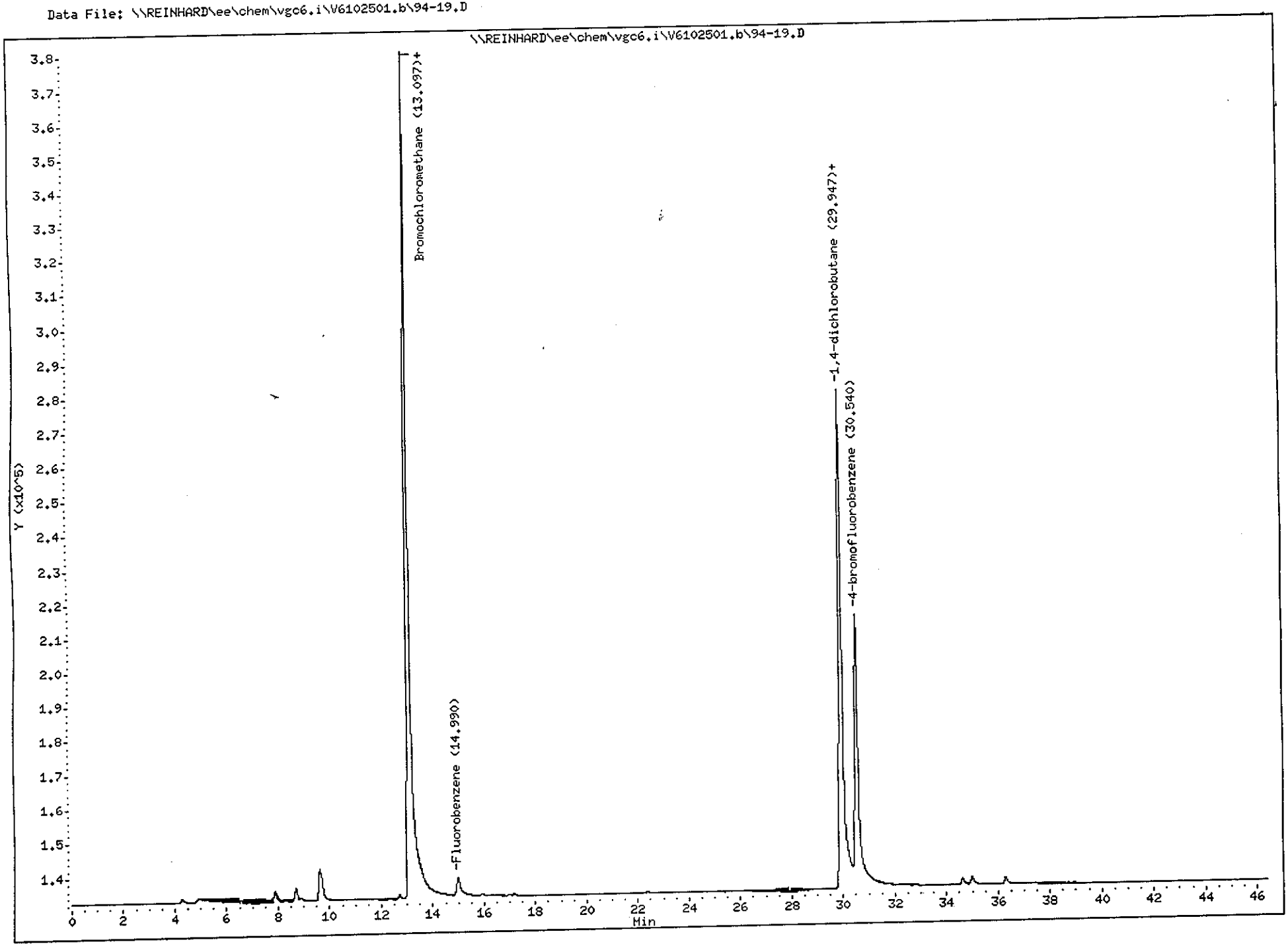
Calibration Date: 26-OCT-2001
Calibration Time: 06:01
Client Smp ID: 062DUP2S101801
Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	85803	42902	171606	85791	-0.01

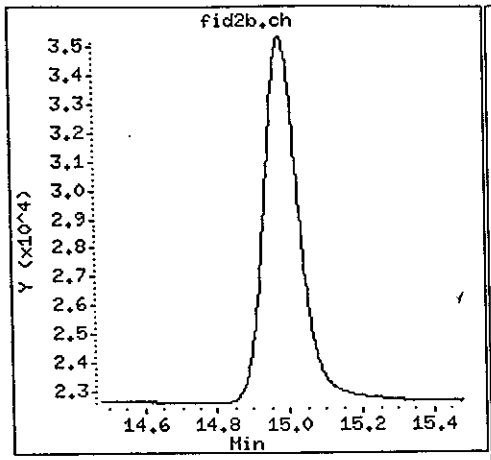
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	14.98	14.48	15.48	14.98	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

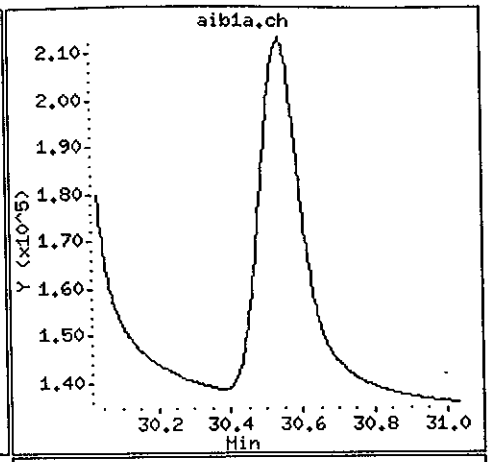
Data File: \\REINHARD\ee\chem\vgc6.i\V6102501.b\94-19.D

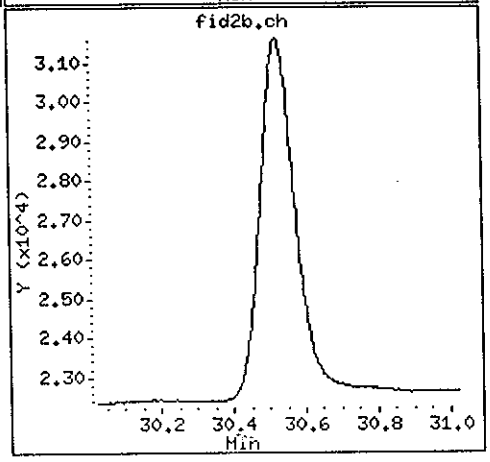


× 21 Fluorobenzene



$ 39 4-bromofluorobenzene





PEL Laboratories

Data file : \\REINHARD\ee\chem\vgc6.i\V6102501.b\CCV65.D
Lab Smp Id: 1025CCV65 Client Smp ID: 1025CCV65
Inj Date : 26-OCT-2001 06:01
Operator : Inst ID: vgc6.i
Smp Info : 1025CCV65
Misc Info :
Comment :
Method : \\REINHARD\ee\chem\vgc6.i\V6102501.b\8021S.m
Meth Date : 30-Oct-2001 15:10 kavita Quant Type: ISTD
Cal Date : 23-OCT-2001 23:22 Cal File: 500PPT.D
Als bottle: 23
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: cto-062.sub
Target Version: 4.04
Processing Host: REINHARD

Concentration Formula: Amt * DF * 5/(ws*(1-(m/100)))

Name	Value	Description
DF	1.000	Dilution Factor
ws	5.000	weight in grams
m	0.000	

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/kg)
	10 MTBE	FID2B	9.910	9.910	(0.662)	50914	24.9452	24.9(M)
	20 Benzene	FID2B	14.546	14.546	(0.971)	175118	31.2125	31.2
*	21 Fluorobenzene	FID2B	14.980	14.980	(1.000)	85803	30.0000	
	26 Toluene	FID2B	19.700	19.700	(1.315)	158454	29.9601	30.0
	33 Ethylbenzene	FID2B	26.063	26.063	(1.740)	151320	29.9364	29.9
	34 m,p-xylene	FID2B	26.386	26.386	(1.761)	333819	58.6381	58.6
	35 o-xylene	FID2B	28.150	28.150	(1.879)	134898	29.9371	29.9
$	39 4-bromofluorobenzene	FID2B	30.523	30.523	(2.038)	139941	28.4659	28.5

QC Flag Legend

M - Compound response manually integrated.

PEL Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vgc6.i
Lab File ID: CCV65.D
Lab Smp Id: 1025CCV65
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\REINHARD\ee\chem\vgc6.i\V6102501.b\8021S.m
Misc Info:

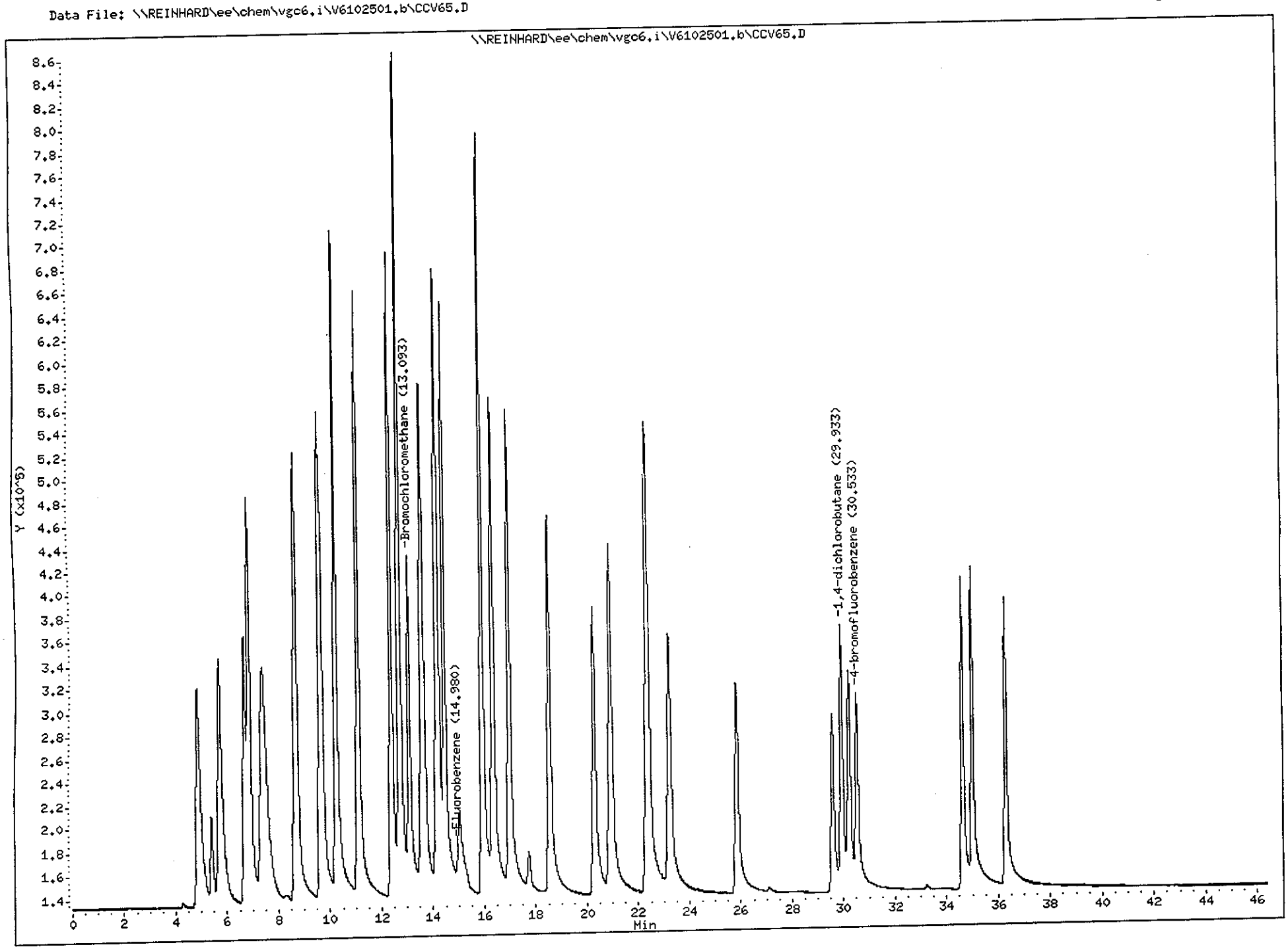
Calibration Date: 26-OCT-2001
Calibration Time: 06:01
Client Smp ID: 1025CCV65
Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	85803	42902	171606	85803	0.00

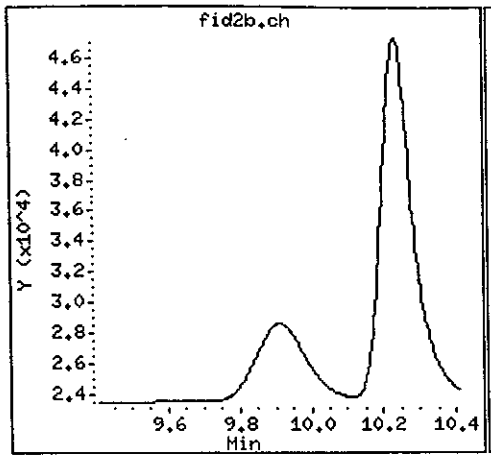
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	14.98	14.48	15.48	14.98	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

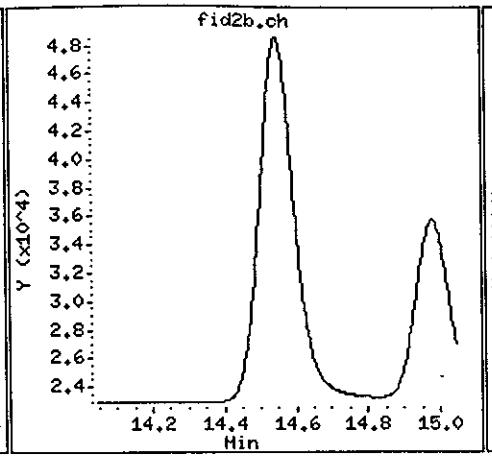
Data File: \\REINHARD\ee\chem\vgc6.i\V6102501.b\CCV65.D



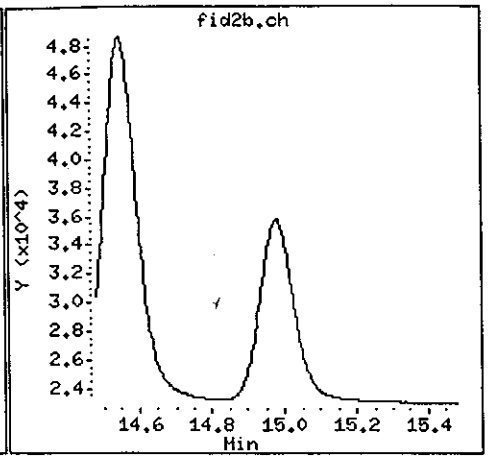
10 MTBE



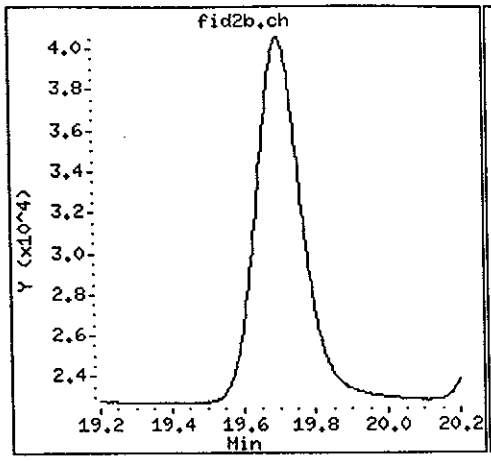
20 Benzene



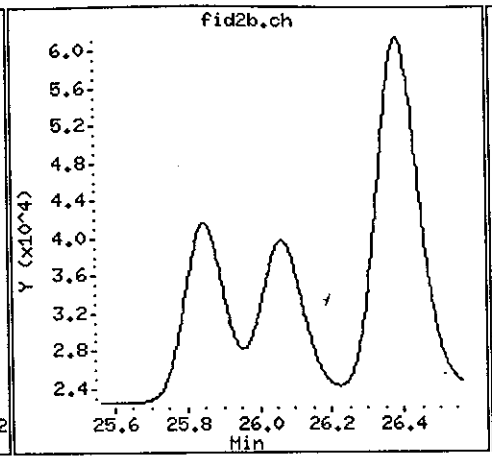
* 21 Fluorobenzene



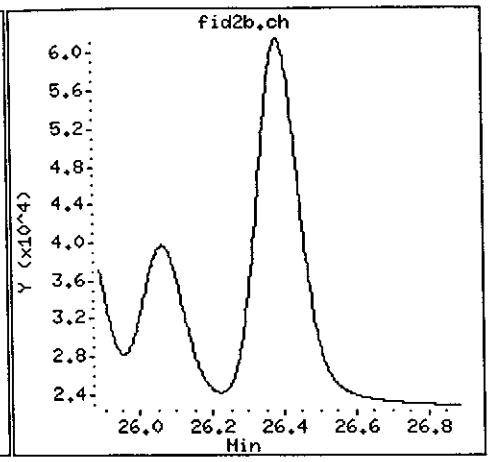
26 Toluene



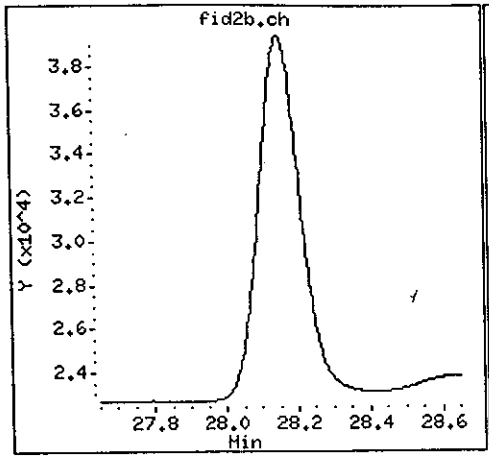
33 Ethylbenzene



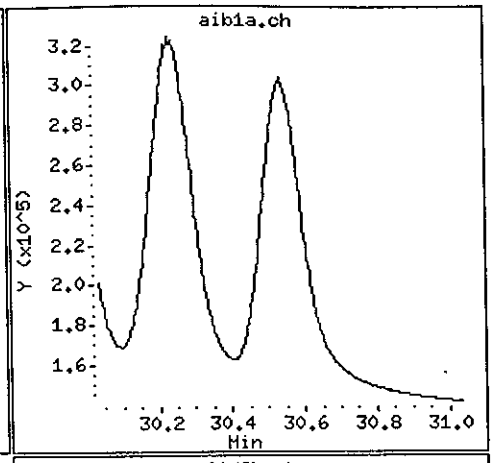
34 m,p-xylene

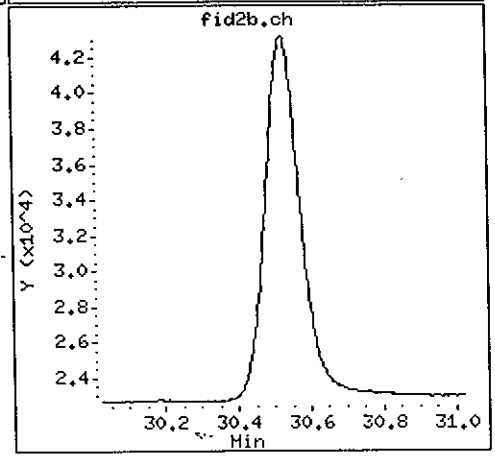


35 o-xylene



$ 39 4-bromofluorobenzene





PEL Laboratories

Data file : \\REINHARD\ee\chem\vgc6.i\V6102901.b\CCV63.D
Lab Smp Id: 1029CCV63 Client Smp ID: 1029CCV63
Inj Date : 29-OCT-2001 11:46
Operator : Inst ID: vgc6.i
Smp Info : 1029CCV63
Misc Info :
Comment :
Method : \\REINHARD\ee\chem\vgc6.i\V6102901.b\8021S.m
Meth Date : 30-Oct-2001 14:55 kavita Quant Type: ISTD
Cal Date : 23-OCT-2001 23:22 Cal File: 500PPT.D
Als bottle: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: cto-062.sub
Target Version: 4.04
Processing Host: REINHARD

Concentration Formula: Amt * DF * 5/(ws*(1-(m/100)))

Name	Value	Description
DF	1.000	Dilution Factor
ws	5.000	weight in grams
m	0.000	

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/kg)
	10 MTBE	FID2B	9.923	9.880	(0.662)	55130	25.4786	25.5(M)
	20 Benzene	FID2B	14.556	14.506	(0.971)	203475	34.2094	34.2
*	21 Fluorobenzene	FID2B	14.986	14.940	(1.000)	90963	30.0000	
	26 Toluene	FID2B	19.716	19.643	(1.316)	185940	33.1628	33.2
	33 Ethylbenzene	FID2B	26.076	26.003	(1.740)	174563	32.5757	32.6
	34 m,p-xylene	FID2B	26.400	26.326	(1.762)	383698	63.5765	63.6
	35 o-xylene	FID2B	28.166	28.096	(1.879)	151665	31.7487	31.7
$	39 4-bromofluorobenzene	FID2B	30.536	30.470	(2.038)	145809	27.9770	28.0

QC Flag Legend

M - Compound response manually integrated.

PEL Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vgc6.i
Lab File ID: CCV63.D
Lab Smp Id: 1029CCV63
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\REINHARD\ee\chem\vgc6.i\V6102901.b\8021S.m
Misc Info:

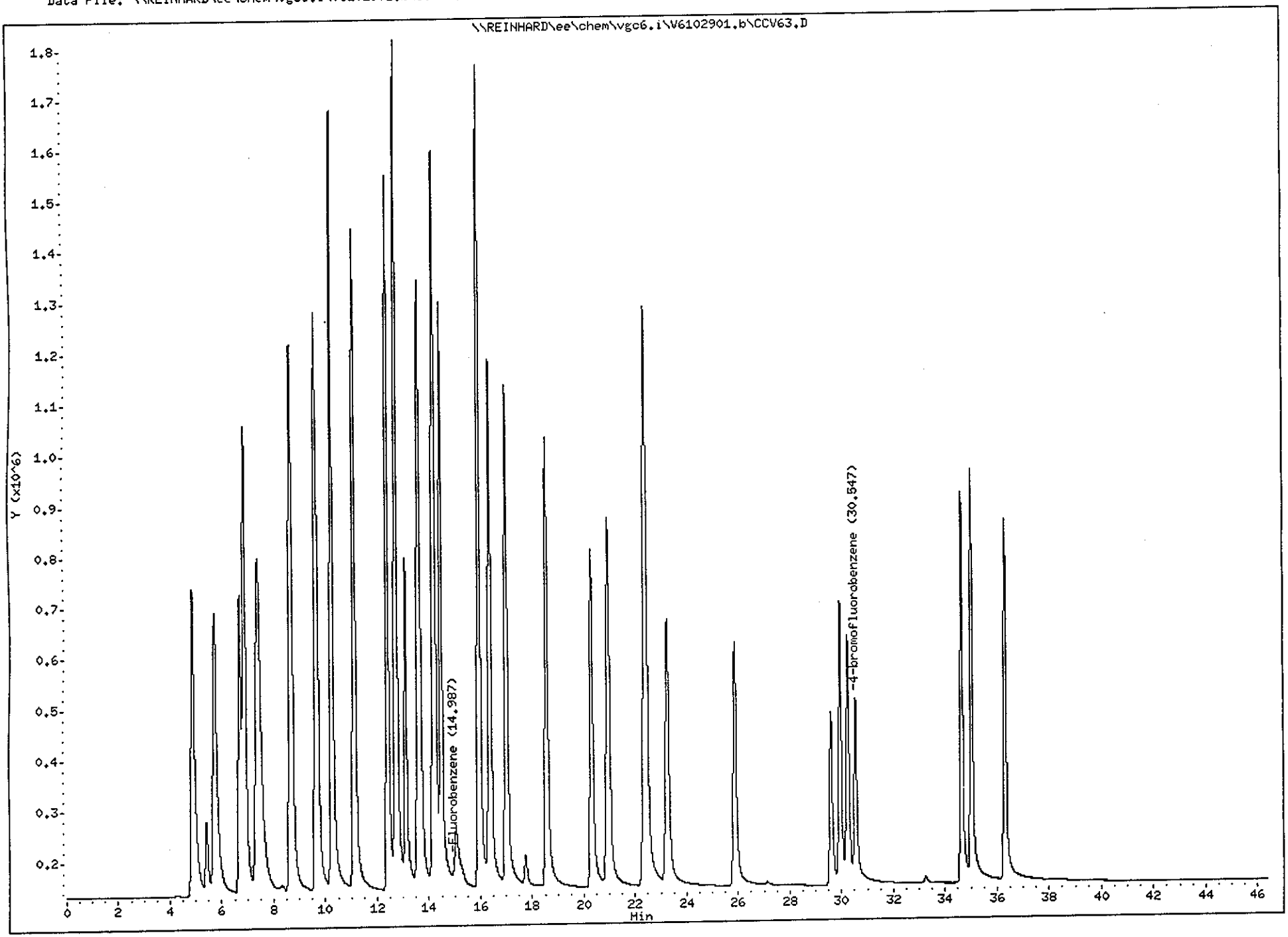
Calibration Date: 30-OCT-2001
Calibration Time: 09:56
Client Smp ID: 1029CCV63
Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	80324	40162	160648	90963	13.25

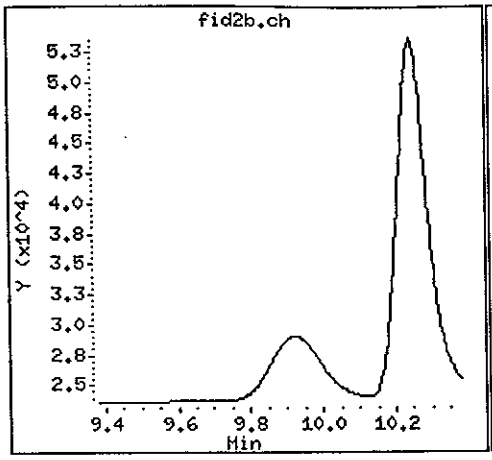
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	14.94	14.44	15.44	14.99	0.31

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

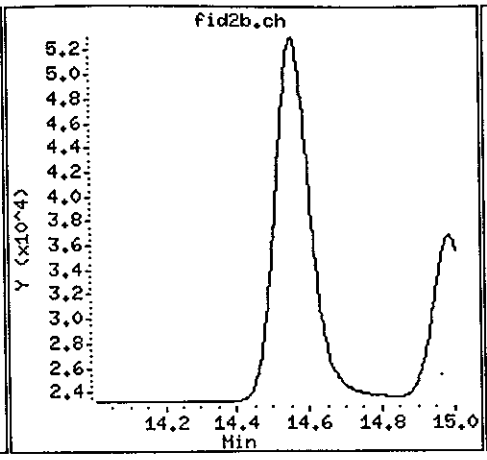
Data File: \\REINHARD\ee\chem\vgc6.i\V6102901.b\CCV63.D



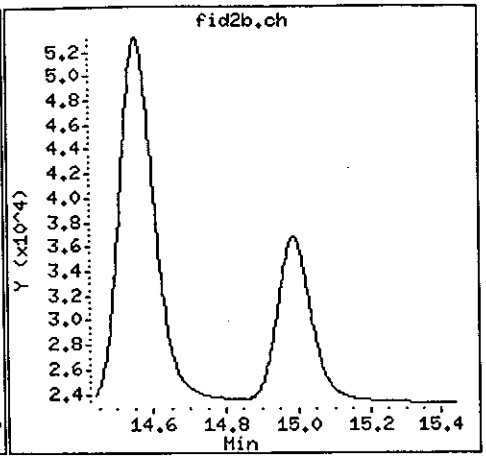
10 MTBE



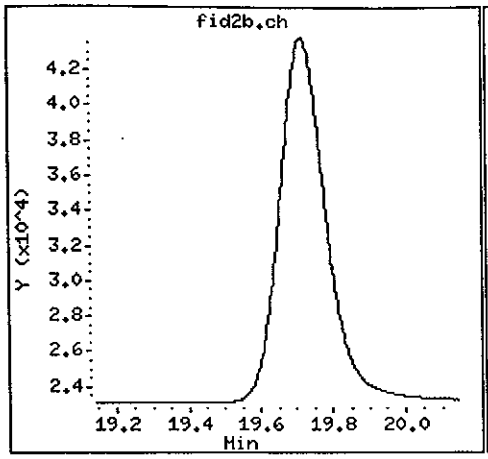
20 Benzene



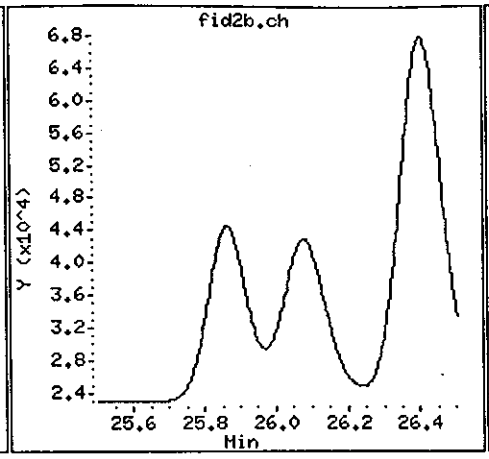
× 21 Fluorobenzene



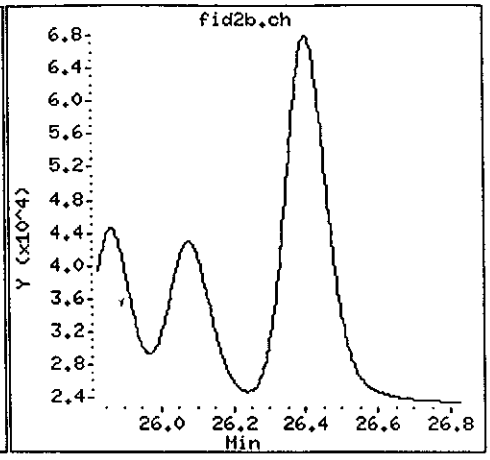
26 Toluene



33 Ethylbenzene

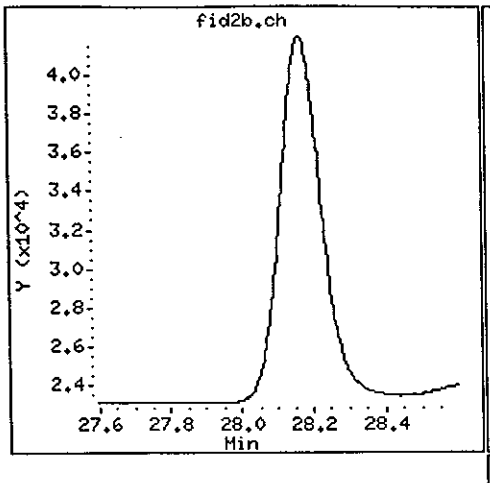


34 m,p-xylene



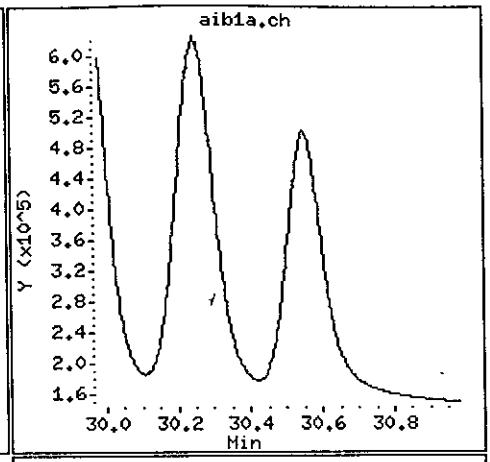
35 o-xylene

fid2b.ch

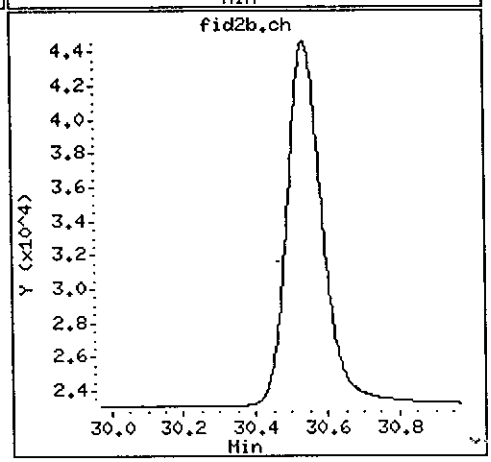


$ 39 4-bromofluorobenzene

aib1a.ch



fid2b.ch



PEL Laboratories

Data file : \\REINHARD\ee\chem\vgc6.i\V6102901.b\LCS61.D
Lab Smp Id: 1029LCS61 Client Smp ID: 1029LCS61
Inj Date : 29-OCT-2001 12:39
Operator : Inst ID: vgc6.i
Smp Info : 1029LCS61
Misc Info :
Comment :
Method : \\REINHARD\ee\chem\vgc6.i\V6102901.b\8021S.m
Meth Date : 30-Oct-2001 14:55 kavita Quant Type: ISTD
Cal Date : 23-OCT-2001 23:22 Cal File: 500PPT.D
Als bottle: 4 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: cto-062.sub
Target Version: 4.04
Processing Host: REINHARD

Concentration Formula: Amt * DF * 5/(ws*(1-(m/100)))

Name	Value	Description
DF	1.000	Dilution Factor
ws	5.000	weight in grams
m	0.000	

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/kg)
10	MTBE	FID2B	9.936	9.880	(0.662)	19244	9.01985	9.0
20	Benzene	FID2B	14.566	14.506	(0.971)	67488	11.5074	11.5
* 21	Fluorobenzene	FID2B	15.000	14.940	(1.000)	89691	30.0000	
26	Toluene	FID2B	19.733	19.643	(1.316)	64067	11.5885	11.6
33	Ethylbenzene	FID2B	26.096	26.003	(1.740)	61760	11.6886	11.7
34	m,p-xylene	FID2B	26.420	26.326	(1.761)	136358	22.9141	22.9
35	o-xylene	FID2B	28.180	28.096	(1.879)	55183	11.7155	11.7
$ 39	4-bromofluorobenzene	FID2B	30.553	30.470	(2.037)	142928	27.8132	27.8

PEL Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vgc6.i
Lab File ID: LCS61.D
Lab Smp Id: 1029LCS61
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\REINHARD\ee\chem\vgc6.i\V6102901.b\8021S.m
Misc Info:

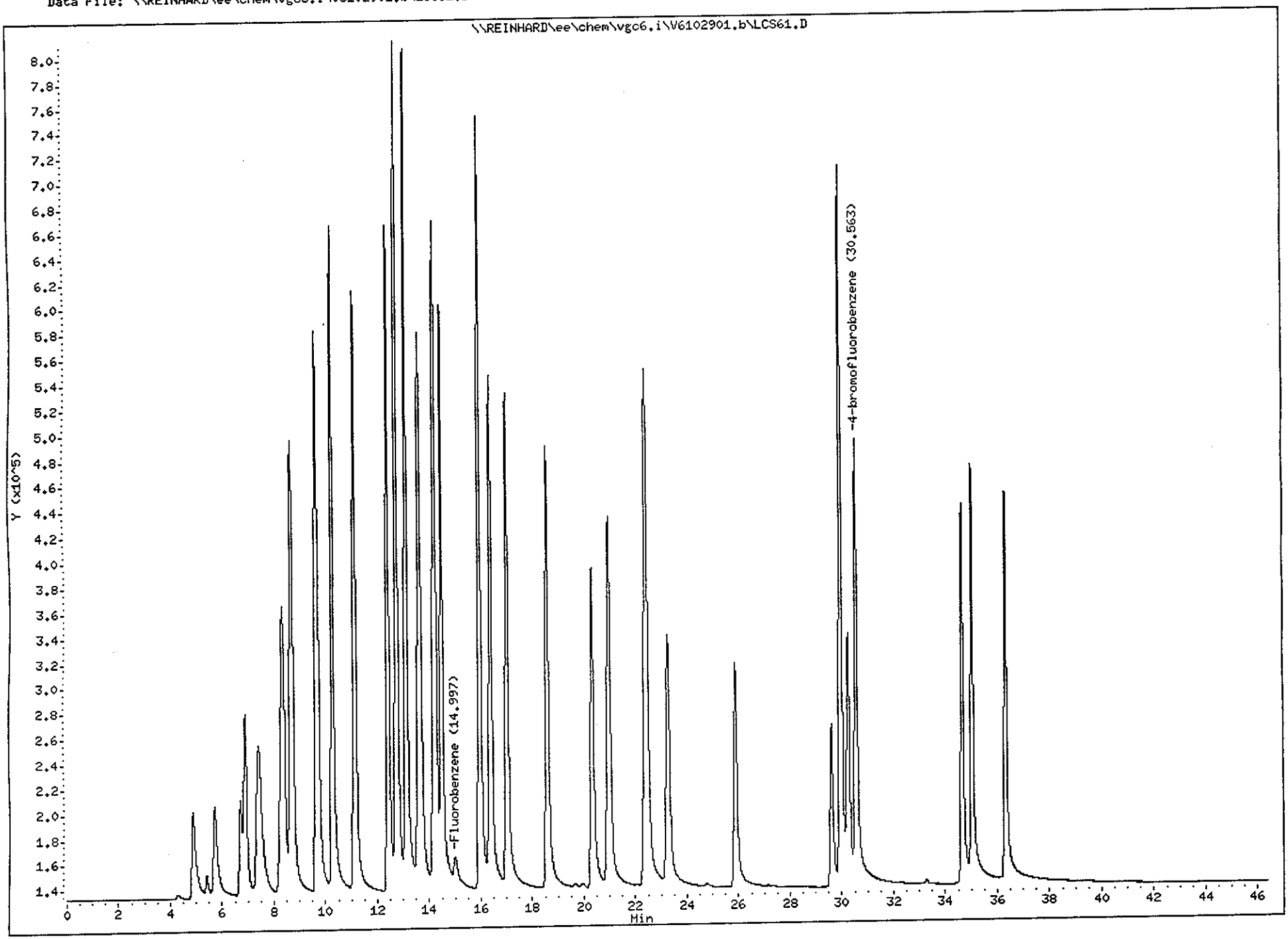
Calibration Date: 30-OCT-2001
Calibration Time: 09:56
Client Smp ID: 1029LCS61
Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	80324	40162	160648	89691	11.66

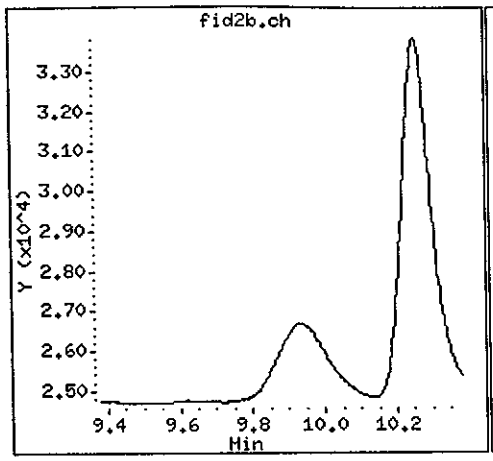
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	14.94	14.44	15.44	15.00	0.40

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

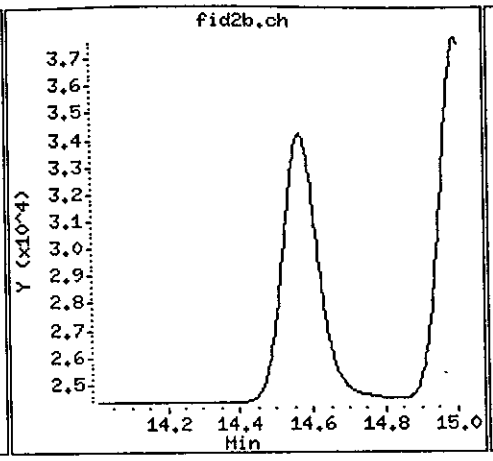
Data File: \\REINHARD\ee\chem\vgc6.i\V6102901.b\LCS61.D



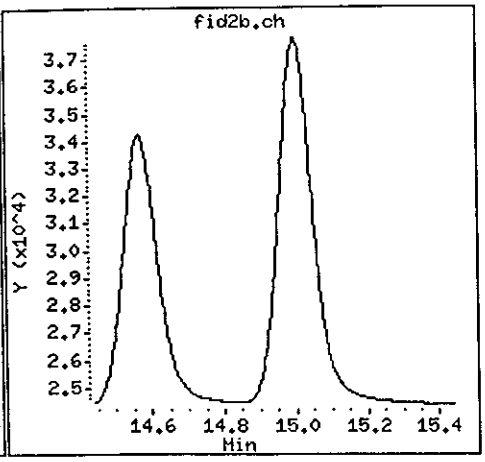
10 MTBE



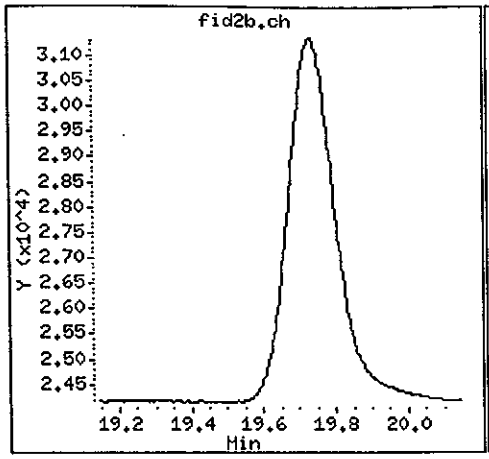
20 Benzene



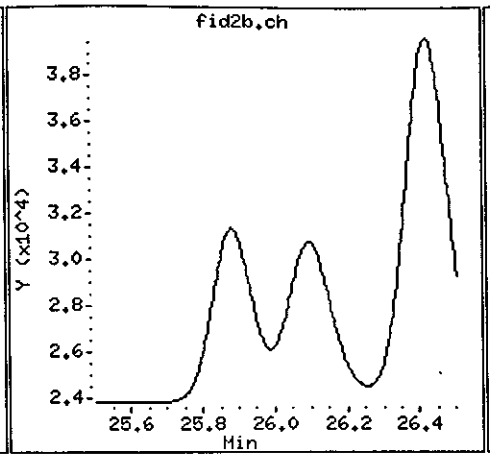
x 21 Fluorobenzene



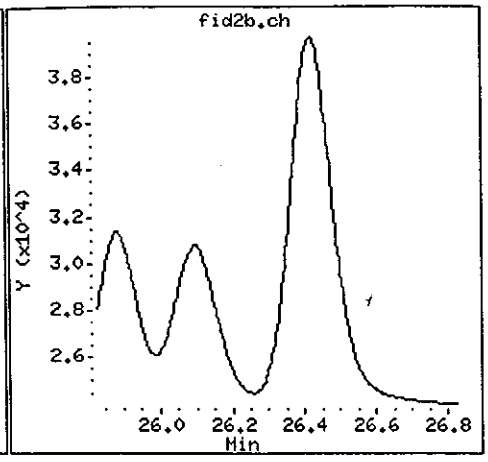
26 Toluene



33 Ethylbenzene

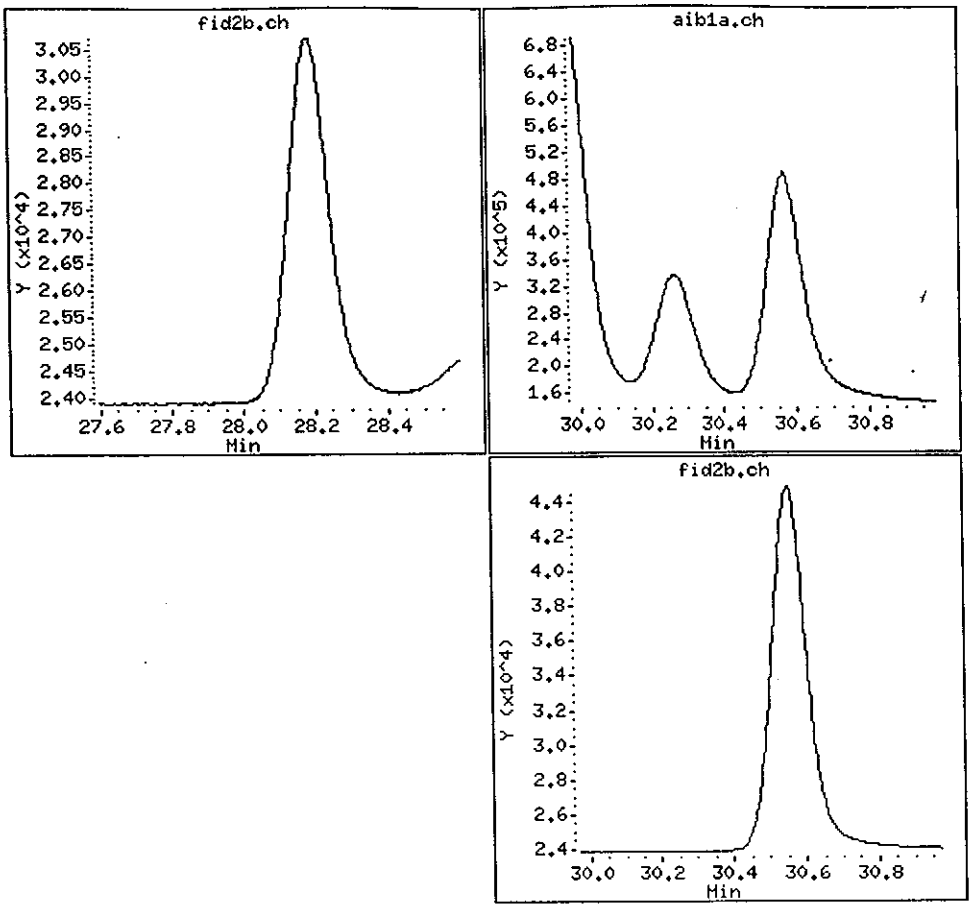


34 m,p-xylene



35 o-xylene

$ 39 4-bromofluorobenzene



PEL Laboratories

Data file : \\REINHARD\ee\chem\vgc6.i\V6102901.b\BLK61.D
Lab Smp Id: 1029BLK61 Client Smp ID: 1029BLK61
Inj Date : 29-OCT-2001 13:32
Operator : Inst ID: vgc6.i
Smp Info : 1029BLK61
Misc Info :
Comment :
Method : \\REINHARD\ee\chem\vgc6.i\V6102901.b\8021S.m
Meth Date : 30-Oct-2001 14:55 kavita Quant Type: ISTD
Cal Date : 23-OCT-2001 23:22 Cal File: 500PPT.D
Als bottle: 6 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: cto-062.sub
Target Version: 4.04
Processing Host: REINHARD

Concentration Formula: Amt * DF * 5/(ws*(1-(m/100)))

Name	Value	Description
DF	1.000	Dilution Factor
ws	5.000	weight in grams
m	0.000	

Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/kg)
* 21 Fluorobenzene	FID2B	15.006	14.940	(1.000)	86428	30.0000	
$ 39 4-bromofluorobenzene	FID2B	30.556	30.470	(2.036)	138069	27.8820	27.9

PEL Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vgc6.i
Lab File ID: BLK61.D
Lab Smp Id: 1029BLK61
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\REINHARD\ee\chem\vgc6.i\V6102901.b\8021S.m
Misc Info:

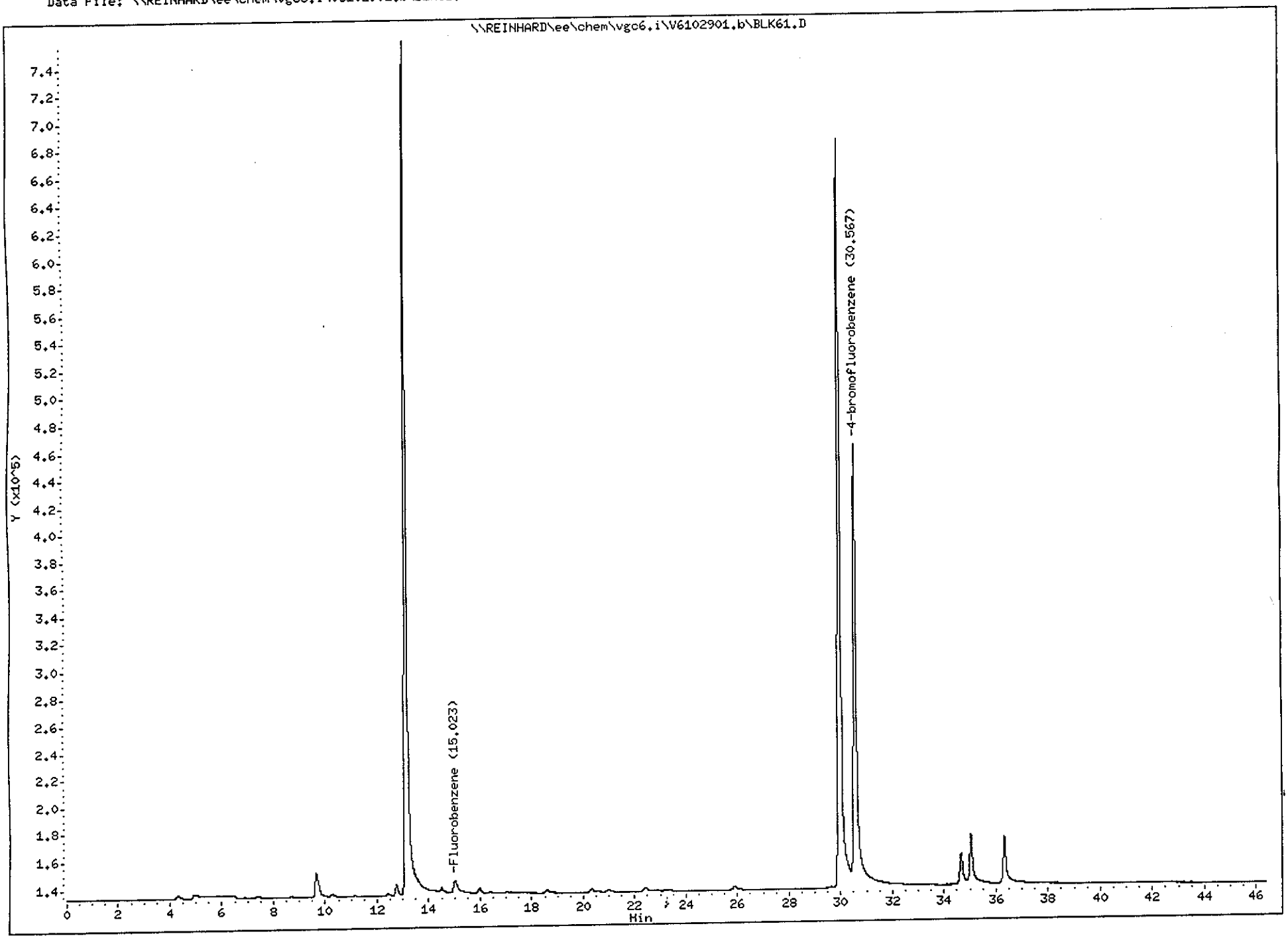
Calibration Date: 30-OCT-2001
Calibration Time: 09:56
Client Smp ID: 1029BLK61
Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	80324	40162	160648	86428	7.60

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	14.94	14.44	15.44	15.01	0.45

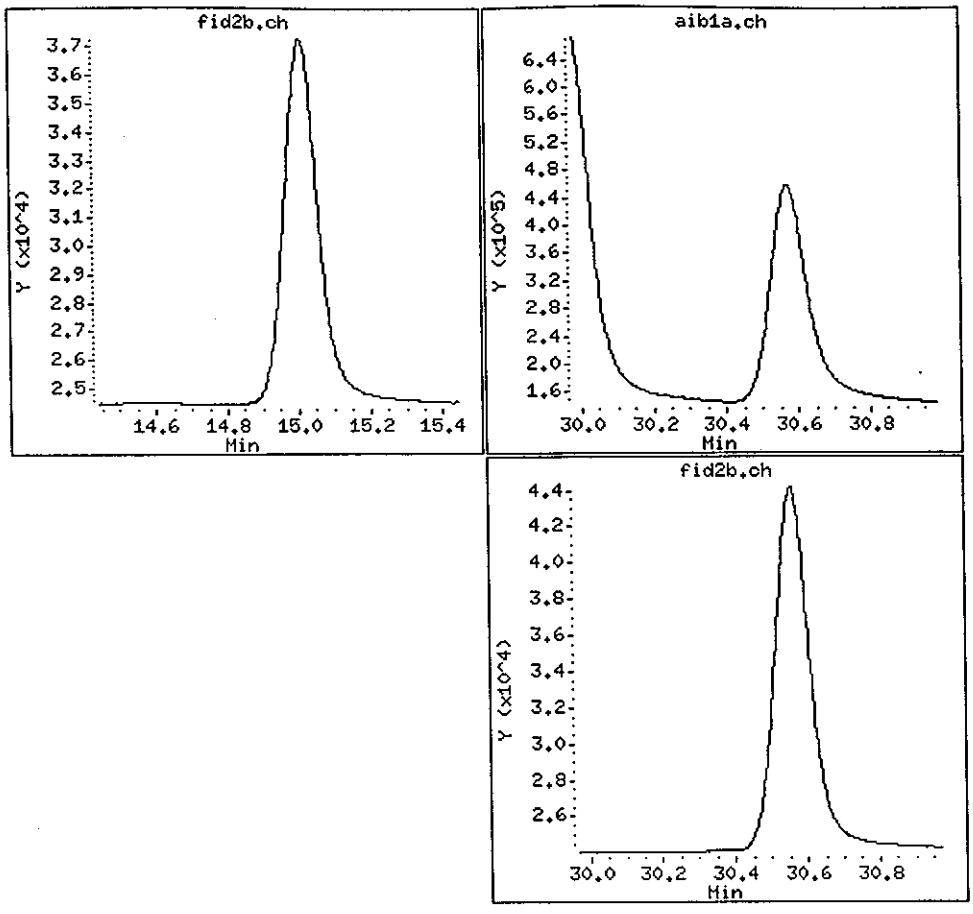
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\REINHARD\ee\chem\vgc6.i\V6102901.b\BLK61.D



× 21 Fluorobenzene

$ 39 4-bromofluorobenzene



PEL Laboratories

Data file : \\REINHARD\ee\chem\vgc6.i\V6102901.b\BLK61D.D
Lab Smp Id: 1029BLK61SD Client Smp ID: 1029BLK61SD
Inj Date : 29-OCT-2001 14:26
Operator : Inst ID: vgc6.i
Smp Info : 1029BLK61MSD
Misc Info :
Comment :
Method : \\REINHARD\ee\chem\vgc6.i\V6102901.b\8021S.m
Meth Date : 30-Oct-2001 14:55 kavita Quant Type: ISTD
Cal Date : 23-OCT-2001 23:22 Cal File: 500PPT.D
Als bottle: 7 QC Sample: MSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: cto-062.sub
Target Version: 4.04
Processing Host: REINHARD

Concentration Formula: Amt * DF * 5/(ws*(1-(m/100)))

Name	Value	Description
DF	1.000	Dilution Factor
ws	5.000	weight in grams
m	0.000	

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/kg)
	10 MTBE	FID2B	9.940	9.880	(0.663)	19648	9.31367	9.3
	20 Benzene	FID2B	14.573	14.506	(0.971)	68433	11.8009	11.8
*	21 Fluorobenzene	FID2B	15.003	14.940	(1.000)	88685	30.0000	
	26 Toluene	FID2B	19.736	19.643	(1.315)	67834	12.4091	12.4
	33 Ethylbenzene	FID2B	26.103	26.003	(1.740)	61756	11.8205	11.8
	34 m,p-xylene	FID2B	26.423	26.326	(1.761)	137150	23.3087	23.3
	35 o-xylene	FID2B	28.183	28.096	(1.878)	55367	11.8879	11.9
$	39 4-bromofluorobenzene	FID2B	30.556	30.470	(2.037)	146244	28.7813	28.8

PEL Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vgc6.i
Lab File ID: BLK61D.D
Lab Smp Id: 1029BLK61SD
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\REINHARD\ee\chem\vgc6.i\V6102901.b\8021S.m
Misc Info:

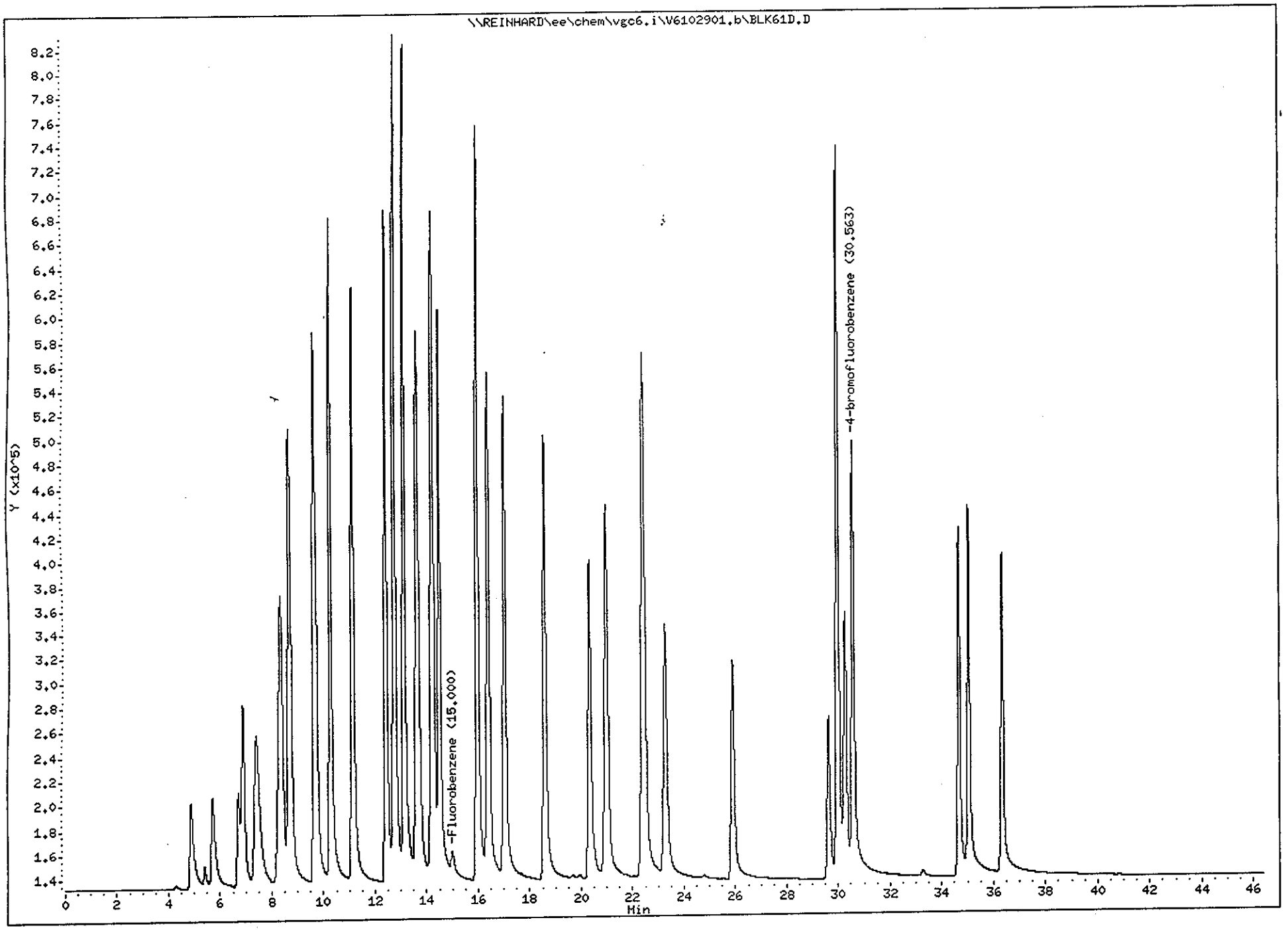
Calibration Date: 30-OCT-2001
Calibration Time: 09:56
Client Smp ID: 1029BLK61SD
Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	80324	40162	160648	88685	10.4

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	14.94	14.44	15.44	15.00	0.42

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

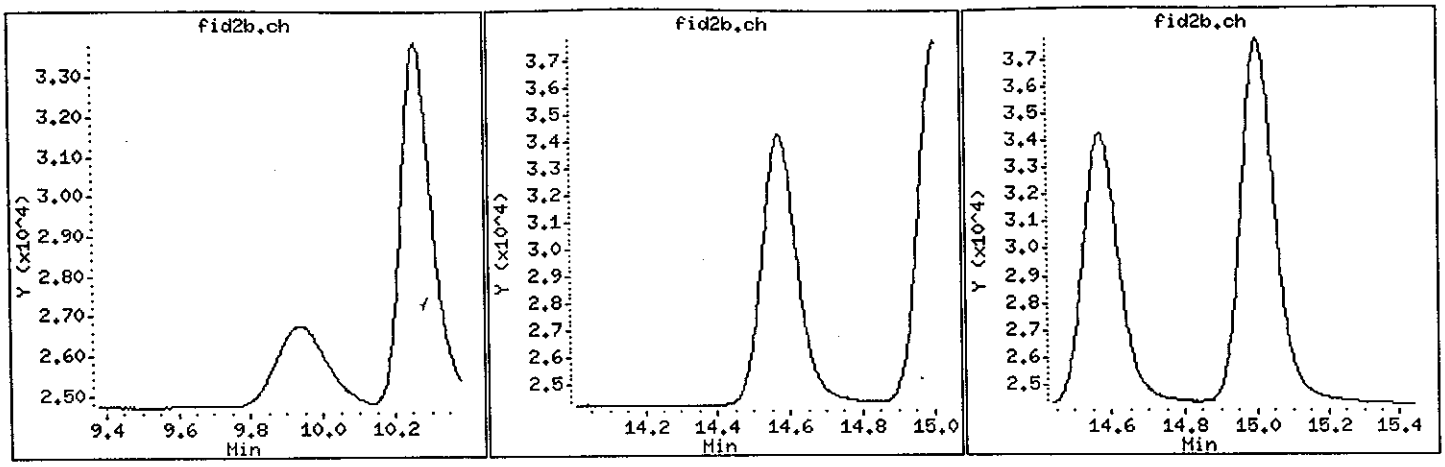
Data File: \\REINHARD\ee\chem\vgc6.i\V6102901.b\BLK61D.D



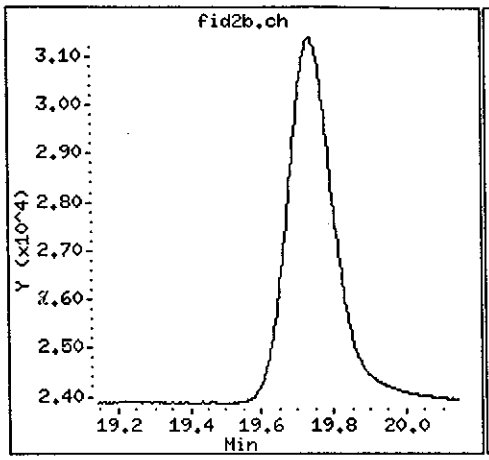
10 MTBE

20 Benzene

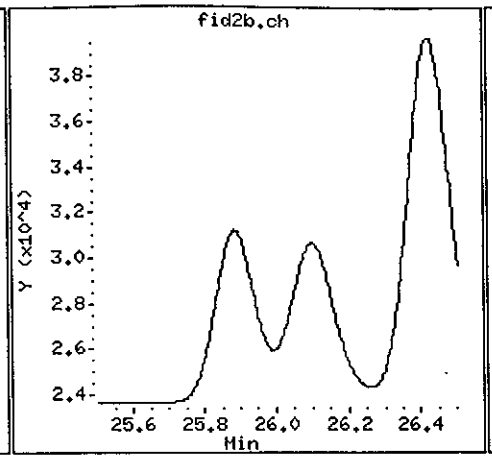
* 21 Fluorobenzene



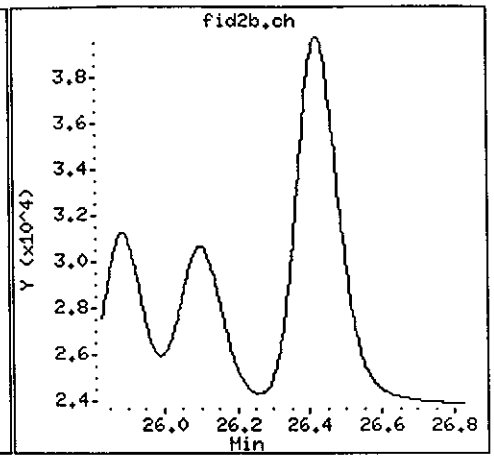
26 Toluene



33 Ethylbenzene

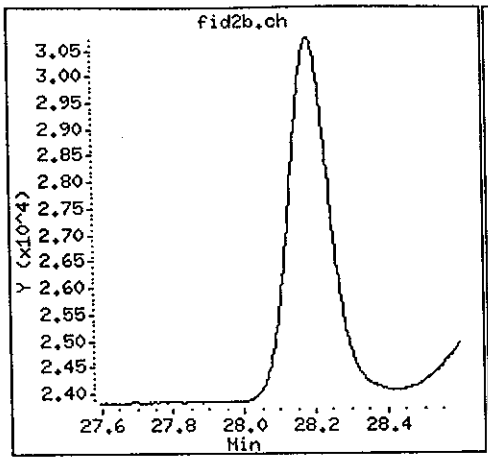


34 m,p-xylene

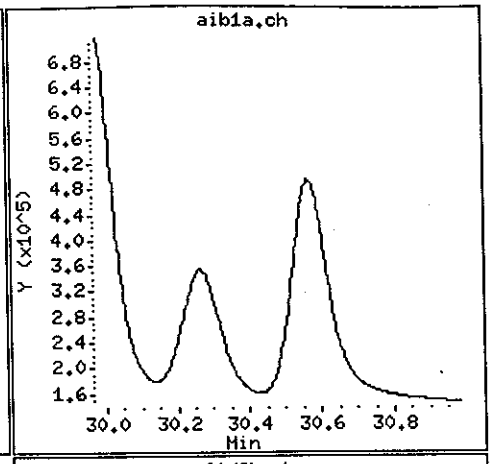


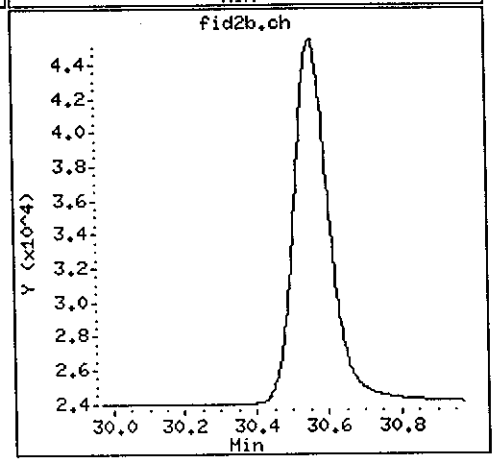
Data File: \\REINHARD\ee\chem\vgc6.i\V6102901.b\BLK61D.D

35 o-xylene



$ 39 4-bromofluorobenzene





PEL Laboratories

Data file : \\REINHARD\ee\chem\vgc6.i\V6102901.b\BLK61MS.D
Lab Smp Id: 1029BLK61MS Client Smp ID: 1029BLK61MS
Inj Date : 29-OCT-2001 15:19
Operator : Inst ID: vgc6.i
Smp Info : 1029BLK61MS
Misc Info :
Comment :
Method : \\REINHARD\ee\chem\vgc6.i\V6102901.b\8021S.m
Meth Date : 30-Oct-2001 14:55 kavita Quant Type: ISTD
Cal Date : 23-OCT-2001 23:22 Cal File: 500PPT.D
Als bottle: 7 QC Sample: MS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: cto-062.sub
Target Version: 4.04
Processing Host: REINHARD

Concentration Formula: Amt * DF * 5/(ws*(1-(m/100)))

Name	Value	Description
DF	1.000	Dilution Factor
ws	5.000	weight in grams
m	0.000	

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/kg)
	10 MTBE	FID2B	9.940	9.880	(0.662)	19771	9.51554	9.5
	20 Benzene	FID2B	14.573	14.506	(0.971)	67999	11.9057	11.9
*	21 Fluorobenzene	FID2B	15.006	14.940	(1.000)	87347	30.0000	
	26 Toluene	FID2B	19.740	19.643	(1.315)	66222	12.2998	12.3
	33 Ethylbenzene	FID2B	26.100	26.003	(1.739)	60584	11.7738	11.8
	34 m,p-xylene	FID2B	26.423	26.326	(1.761)	137776	23.7737	23.8
	35 o-xylene	FID2B	28.186	28.096	(1.878)	53698	11.7062	11.7(M)
$	39 4-bromofluorobenzene	FID2B	30.556	30.470	(2.036)	145355	29.0445	29.0

QC Flag Legend

M - Compound response manually integrated.

PEL Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

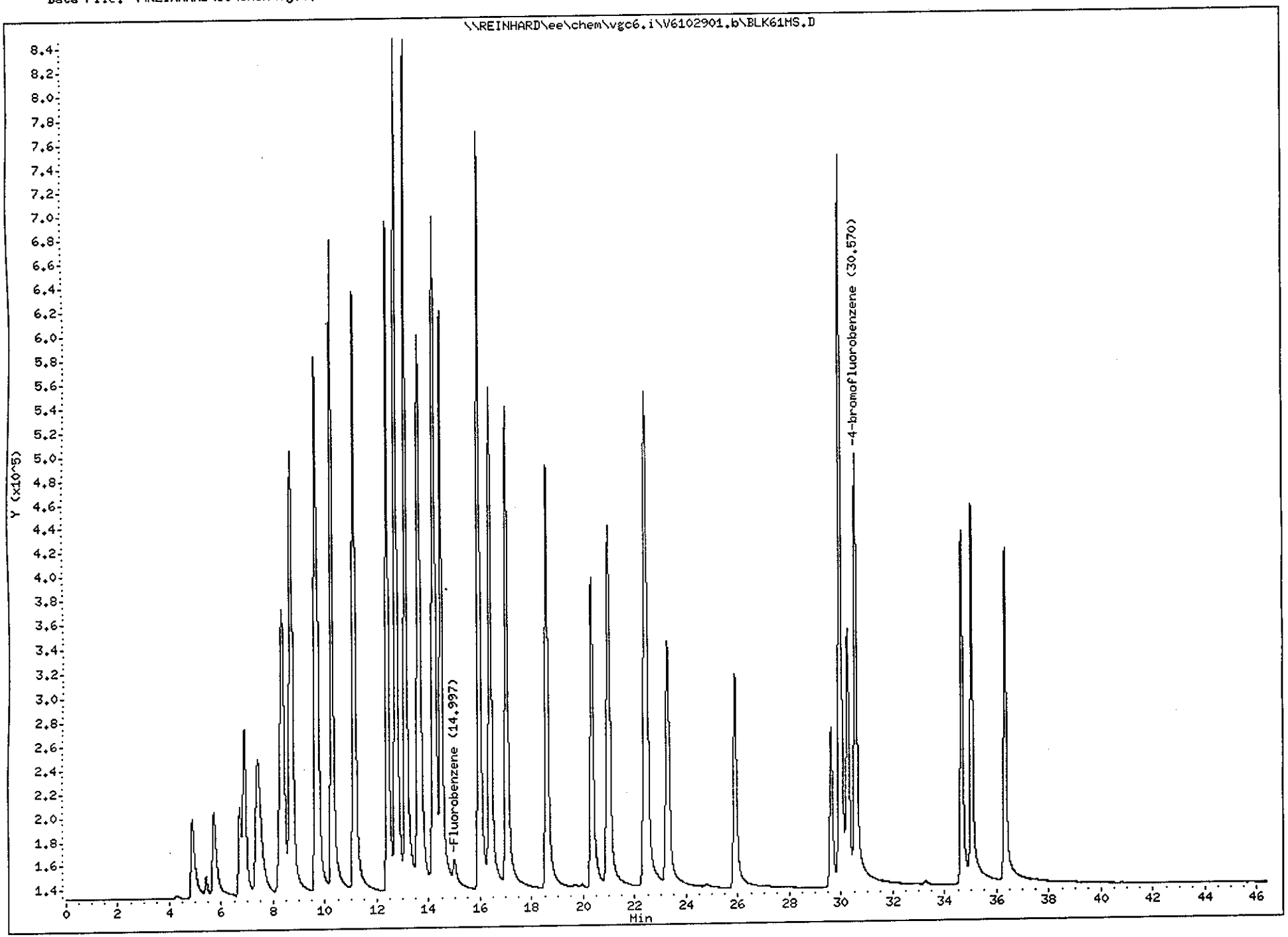
Instrument ID: vgc6.i
Lab File ID: BLK61MS.D
Lab Smp Id: 1029BLK61MS
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\REINHARD\ee\chem\vgc6.i\V6102901.b\8021S.m
Misc Info:

Calibration Date: 30-OCT-2001
Calibration Time: 09:56
Client Smp ID: 1029BLK61MS
Level: LOW
Sample Type: SOIL

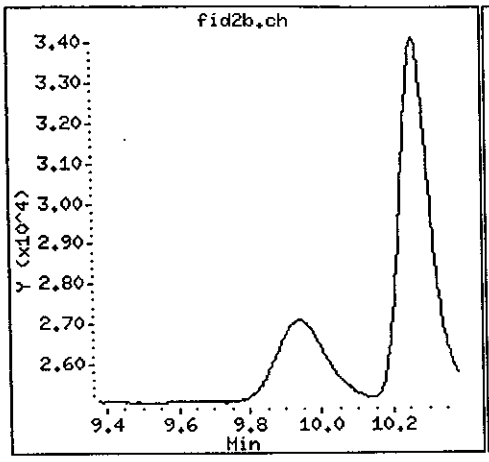
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	80324	40162	160648	87347	8.74

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	14.94	14.44	15.44	15.01	0.45

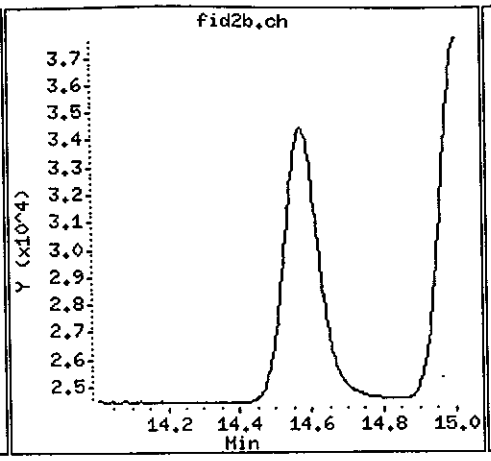
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.


\\REINHARD\ee\chem\vgc6.i\V6102901.b\BLK61MS.D
Y (x10^5)
Min
-Fluorobenzene (14.997)
-4-bromofluorobenzene (30.570)

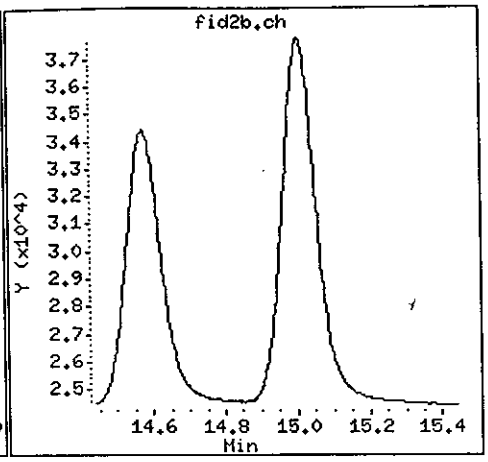
10 MTBE



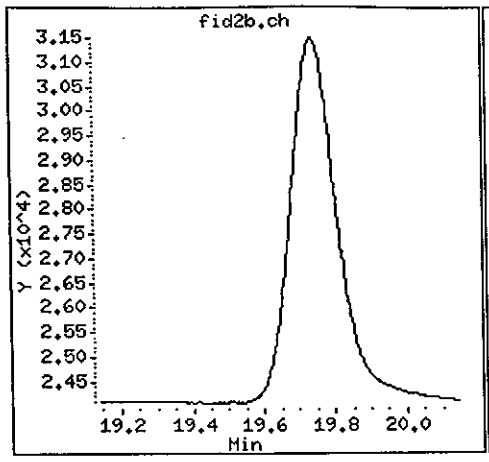
20 Benzene



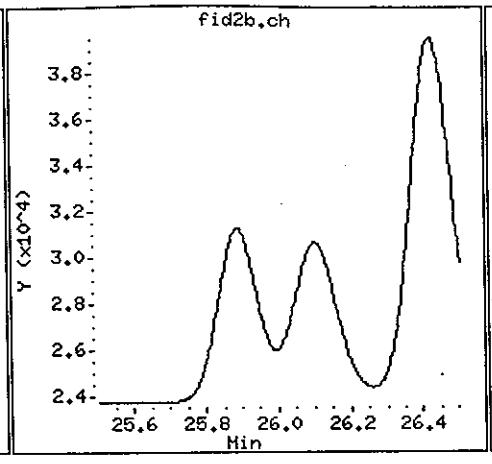
* 21 Fluorobenzene



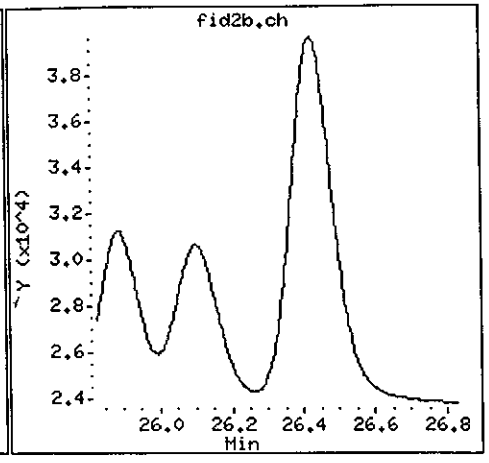
26 Toluene



33 Ethylbenzene

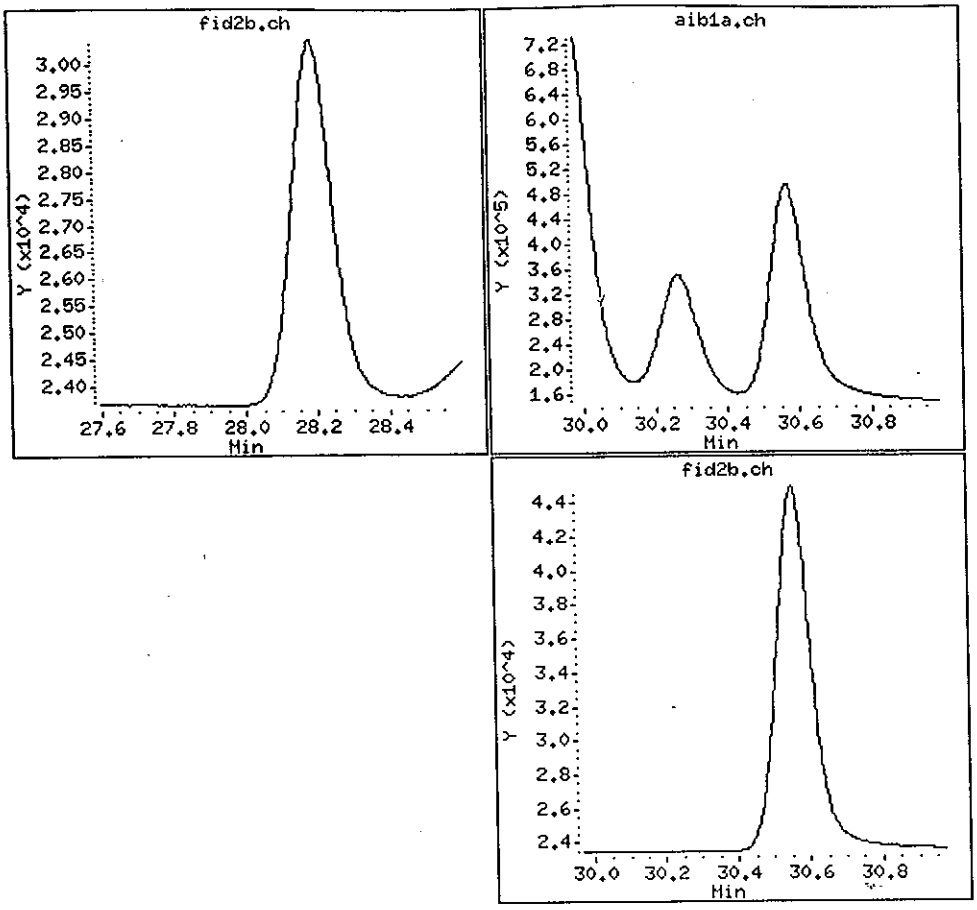


34 m,p-xylene



35 o-xylene

$ 39 4-bromofluorobenzene



PEL Laboratories

Data file : \\REINHARD\ee\chem\vgc6.i\V6102901.b\94-5R.D
Lab Smp Id: 211009405 Client Smp ID: 062B96S101801
Inj Date : 29-OCT-2001 16:12
Operator : Inst ID: vgc6.i
Smp Info : 211009405
Misc Info :
Comment :
Method : \\REINHARD\ee\chem\vgc6.i\V6102901.b\8021S.m
Meth Date : 30-Oct-2001 14:55 kavita Quant Type: ISTD
Cal Date : 23-OCT-2001 23:22 Cal File: 500PPT.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: cto-062.sub
Target Version: 4.04
Processing Host: REINHARD

Concentration Formula: Amt * DF * 5/(ws*(1-(m/100)))

Name	Value	Description
DF	1.000	Dilution Factor
ws	4.086	weight in grams
m	11.000	

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/kg)
	20 Benzene	FID2B	14.363	14.506	(0.957)	106256	17.4970	24.0
*	21 Fluorobenzene	FID2B	15.003	14.940	(1.000)	92873	30.0000	
	26 Toluene	FID2B	19.773	19.643	(1.318)	7203	1.25825	1.7
	33 Ethylbenzene	FID2B	26.010	26.003	(1.734)	69413	12.6870	17.4
	34 m,p-xylene	FID2B	26.750	26.326	(1.783)	30201	4.90121	6.7
	35 o-xylene	FID2B	28.446	28.096	(1.896)	26391	5.41094	7.4
$	39 4-bromofluorobenzene	FID2B	30.556	30.470	(2.037)	128213	24.0949	33.1(Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.

PEL Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vgc6.i
Lab File ID: 94-5R.D
Lab Smp Id: 211009405
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\REINHARD\ee\chem\vgc6.i\V6102901.b\8021S.m
Misc Info:

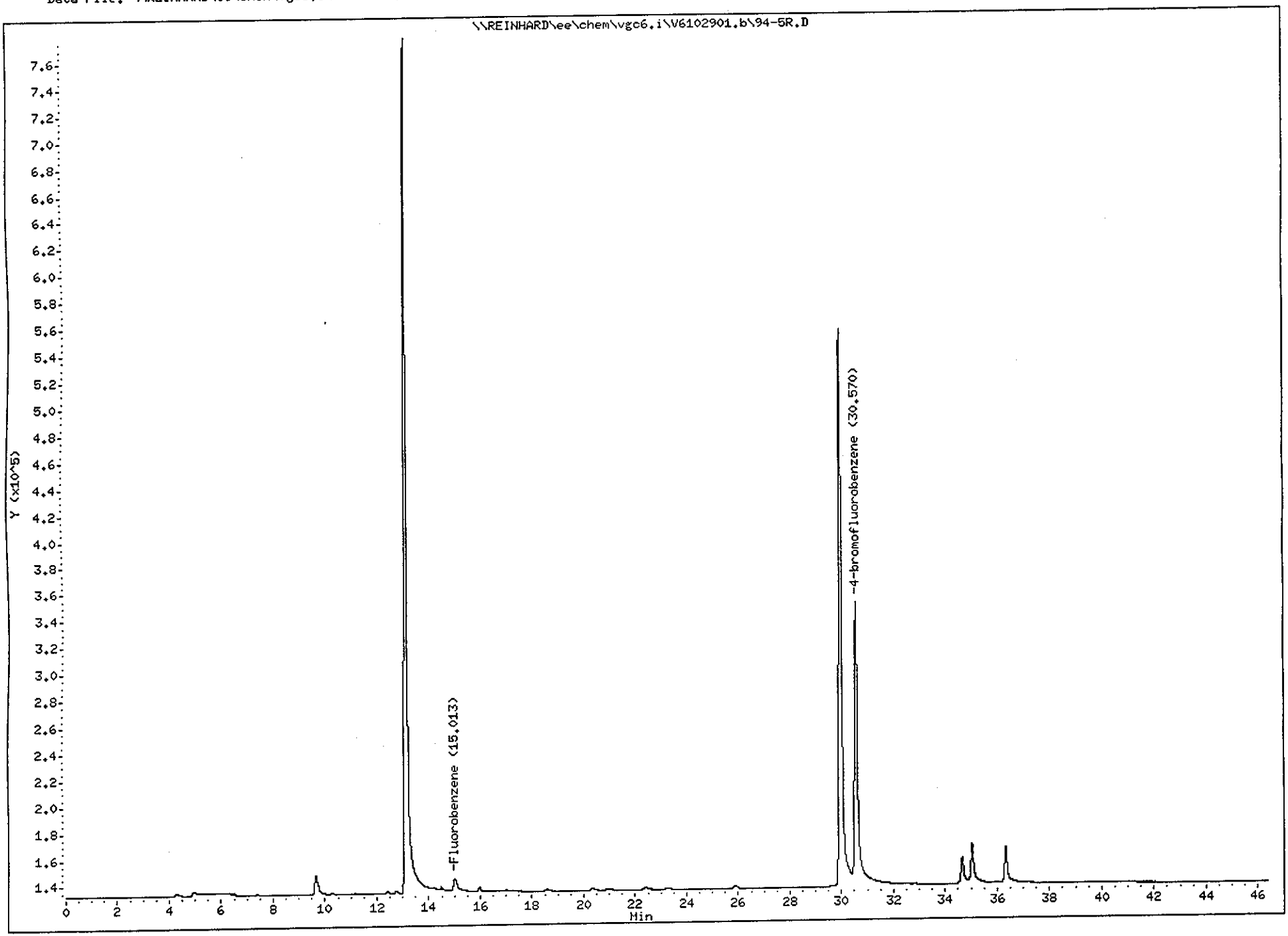
Calibration Date: 30-OCT-2001
Calibration Time: 09:56
Client Smp ID: 062B96S101801
Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	80324	40162	160648	92873	15.62

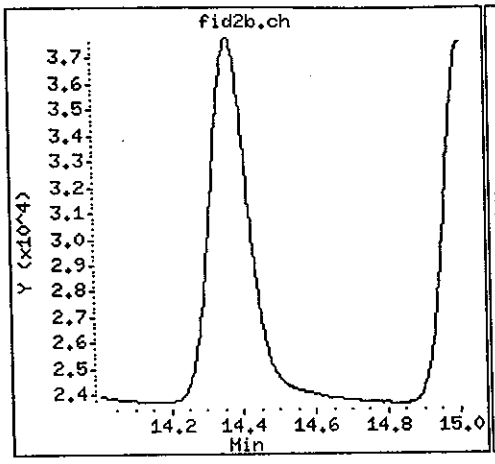
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	14.94	14.44	15.44	15.00	0.42

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

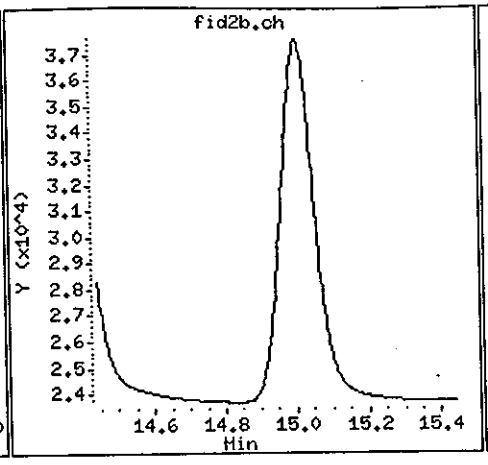
Data File: \\REINHARD\ee\chem\vgc6.i\V6102901.b\94-5R.D



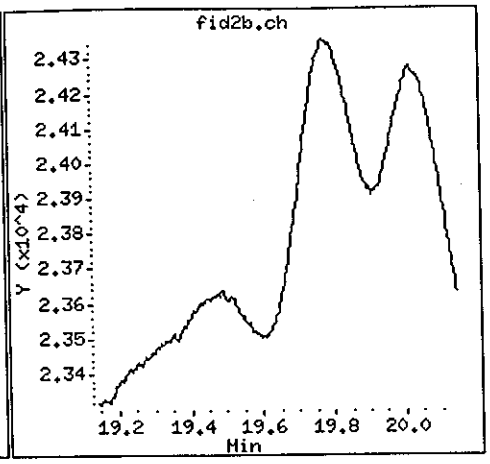
20 Benzene



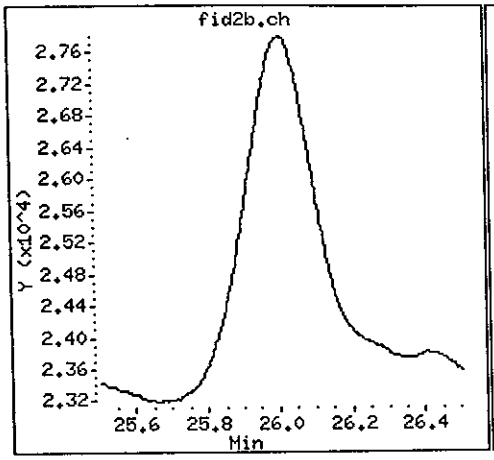
× 21 Fluorobenzene



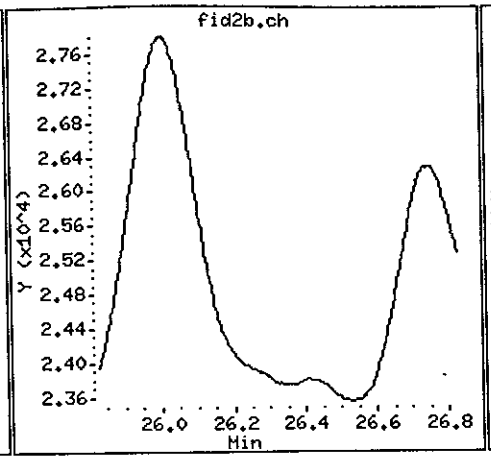
26 Toluene



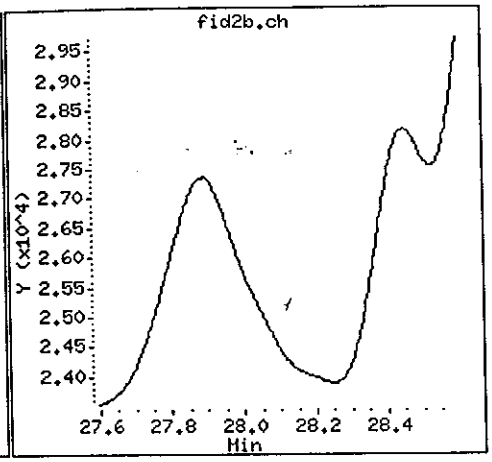
33 Ethylbenzene



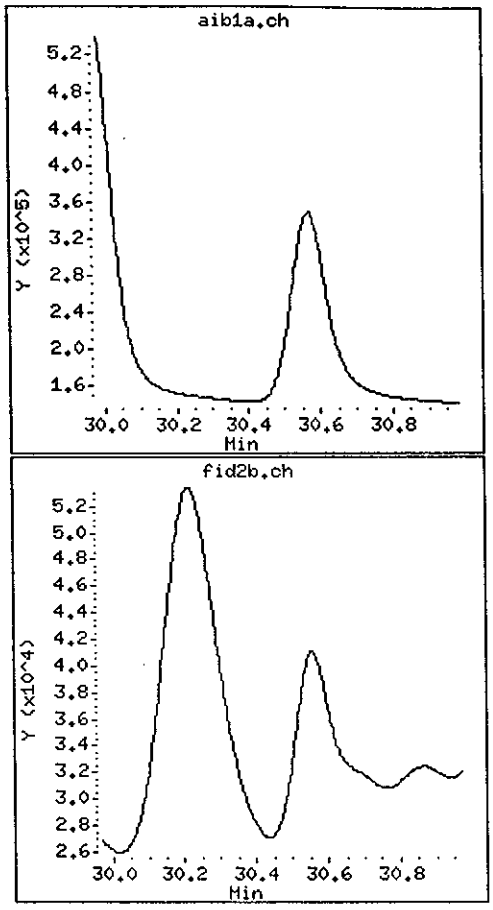
34 m,p-xylene



35 o-xylene



$ 39 4-bromofluorobenzene



PEL Laboratories

Data file : \\REINHARD\ee\chem\vgc6.i\V6102901.b\94-6R.D
Lab Smp Id: 211009406 Client Smp ID: 062B99S101801
Inj Date : 29-OCT-2001 17:06
Operator : Inst ID: vgc6.i
Smp Info : 211009406
Misc Info :
Comment :
Method : \\REINHARD\ee\chem\vgc6.i\V6102901.b\8021S.m
Meth Date : 30-Oct-2001 14:55 kavita Quant Type: ISTD
Cal Date : 23-OCT-2001 23:22 Cal File: 500PPT.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: cto-062.sub
Target Version: 4.04
Processing Host: REINHARD

Concentration Formula: Amt * DF * 5/(ws*(1-(m/100)))

Name	Value	Description
DF	1.000	Dilution Factor
ws	5.017	weight in grams
m	14.700	

Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/kg)
* 21 Fluorobenzene	FID2B	14.996	14.940	(1.000)	87701	30.0000	
$ 39 4-bromofluorobenzene	FID2B	30.540	30.470	(2.036)	107510	21.3957	25.0

PEL Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vgc6.i
Lab File ID: 94-6R.D
Lab Smp Id: 211009406
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\REINHARD\ee\chem\vgc6.i\V6102901.b\8021S.m
Misc Info:

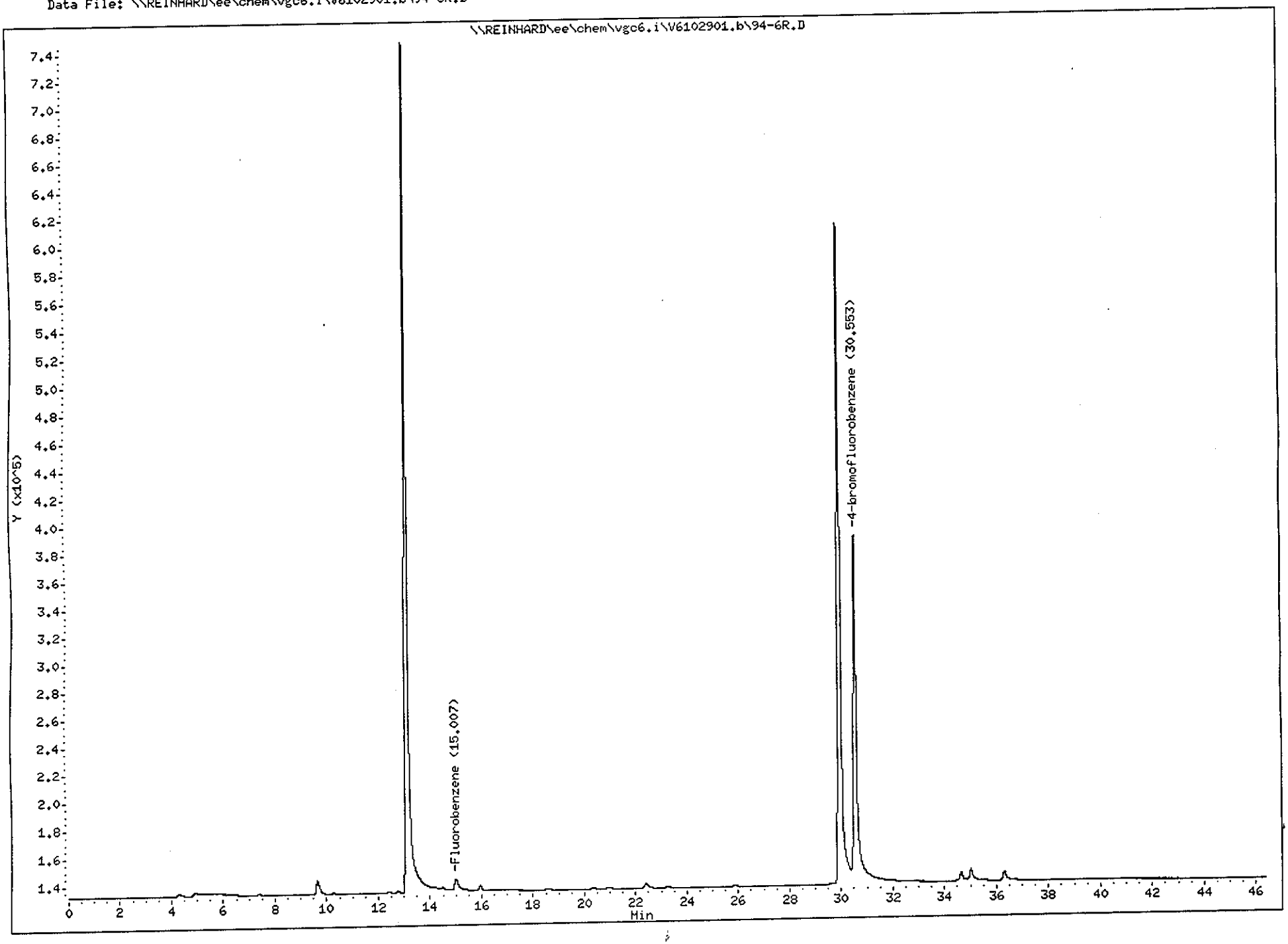
Calibration Date: 30-OCT-2001
Calibration Time: 09:56
Client Smp ID: 062B99S101801
Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	80324	40162	160648	87701	9.18

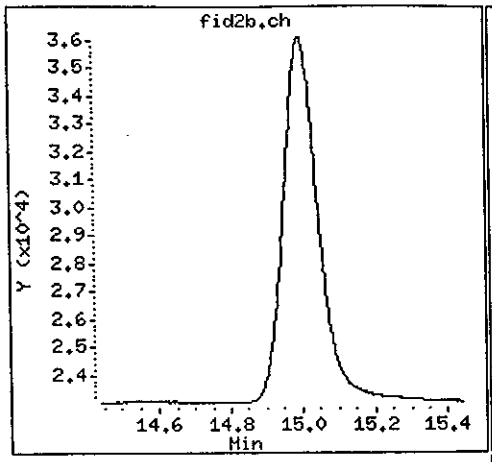
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	14.94	14.44	15.44	15.00	0.38

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

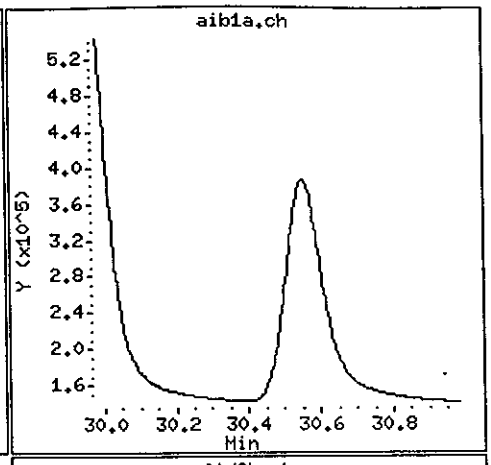
Data File: \\REINHARD\ee\chem\vgc6.i\V6102901.b\94-6R.D

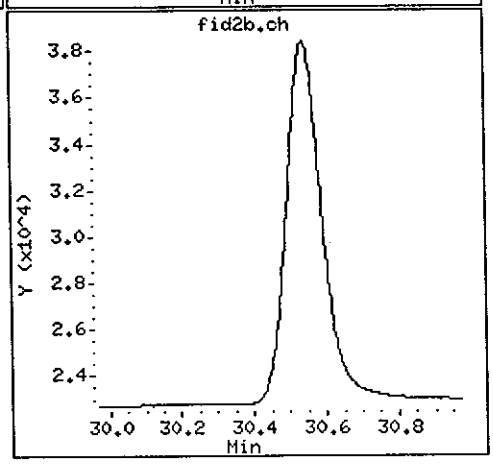


× 21 Fluorobenzene



$ 39 4-bromofluorobenzene





PEL Laboratories

Data file : \\REINHARD\ee\chem\vgc6.i\V6102901.b\CCV65.D
Lab Smp Id: 1029CCV65 Client Smp ID: 1029CCV65
Inj Date : 29-OCT-2001 22:23
Operator : Inst ID: vgc6.i
Smp Info : 1029CCV65
Misc Info :
Comment :
Method : \\REINHARD\ee\chem\vgc6.i\V6102901.b\8021S.m
Meth Date : 30-Oct-2001 14:55 kavita Quant Type: ISTD
Cal Date : 23-OCT-2001 23:22 Cal File: 500PPT.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: cto-062.sub
Target Version: 4.04
Processing Host: REINHARD

Concentration Formula: Amt * DF * 5/(ws*(1-(m/100)))

Name	Value	Description
DF	1.000	Dilution Factor
ws	5.000	weight in grams
m	0.000	

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/kg)
	10 MTBE	FID2B	9.913	9.880	(0.662)	51464	24.1141	24.1(M)
	20 Benzene	FID2B	14.546	14.506	(0.971)	183192	31.2264	31.2
*	21 Fluorobenzene	FID2B	14.976	14.940	(1.000)	89719	30.0000	
	26 Toluene	FID2B	19.700	19.643	(1.315)	165901	29.9991	30.0
	33 Ethylbenzene	FID2B	26.063	26.003	(1.740)	156060	29.5266	29.5
	34 m,p-xylene	FID2B	26.383	26.326	(1.762)	341260	57.3288	57.3
	35 o-xylene	FID2B	28.150	28.096	(1.880)	138362	29.3656	29.4
$	39 4-bromofluorobenzene	FID2B	30.520	30.470	(2.038)	133086	25.8899	25.9

QC Flag Legend

M - Compound response manually integrated.

PEL Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

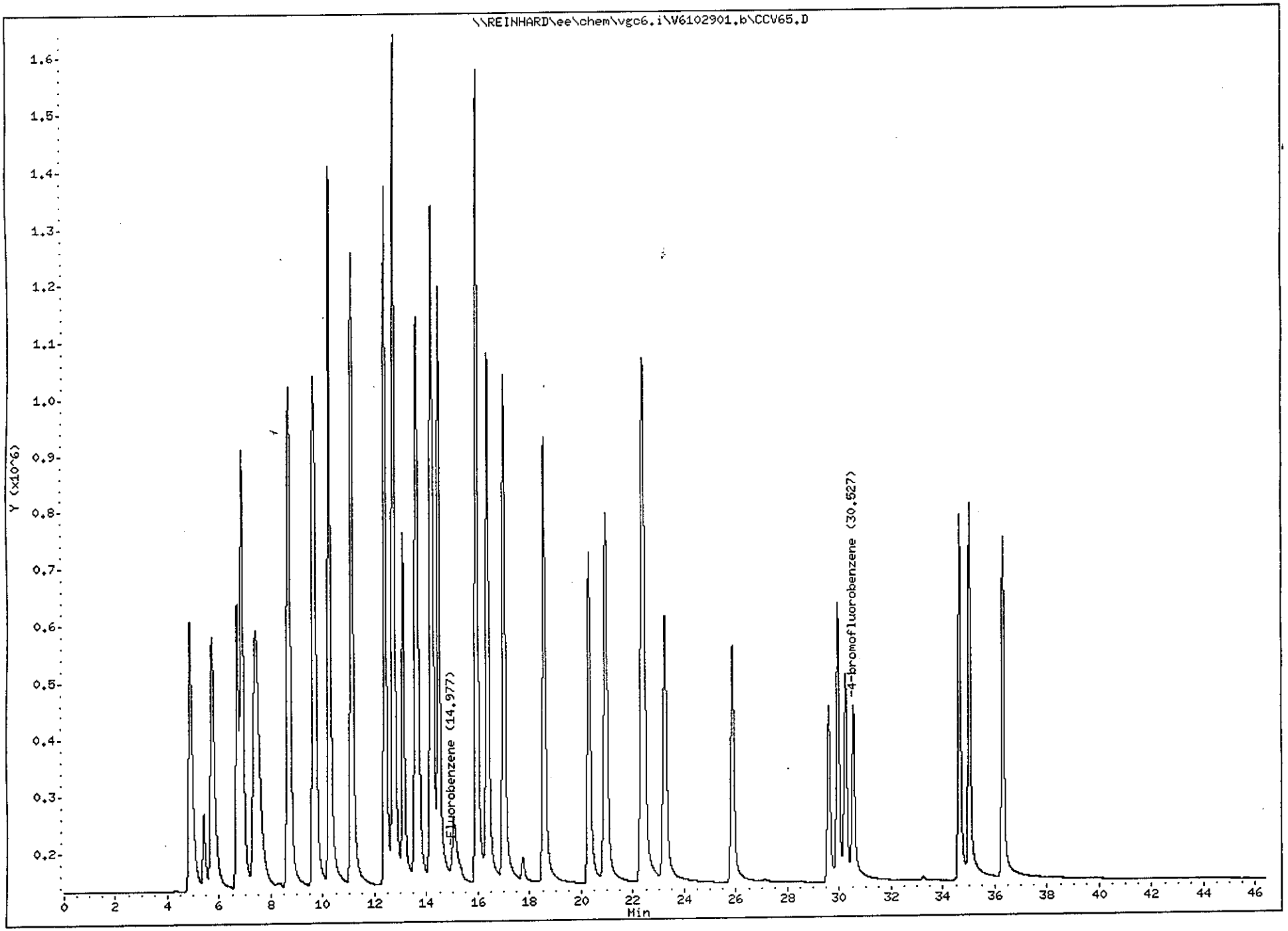
Instrument ID: vgc6.i
Lab File ID: CCV65.D
Lab Smp Id: 1029CCV65
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\REINHARD\ee\chem\vgc6.i\V6102901.b\8021S.m
Misc Info:

Calibration Date: 30-OCT-2001
Calibration Time: 09:56
Client Smp ID: 1029CCV65
Level: LOW
Sample Type: SOIL

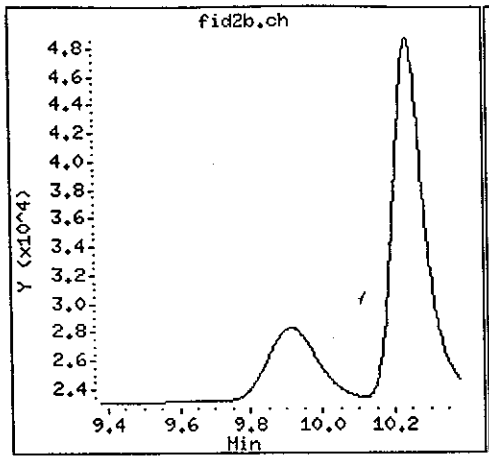
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	80324	40162	160648	89719	11.70

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	14.94	14.44	15.44	14.98	0.25

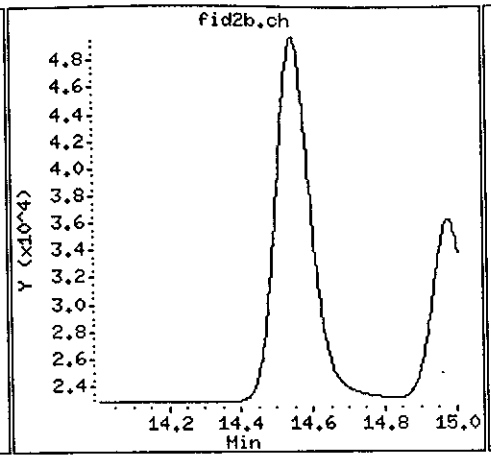
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.


\\REINHARD\ee\chem\vgc6.i\V6102901.b\CCV65.D
Y (x10^6)
1.6
1.5
1.4
1.3
1.2
1.1
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
Fluorobenzene (14.977)
4-bromofluorobenzene (30.527)
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
32
34
36
38
40
42
44
46
Min

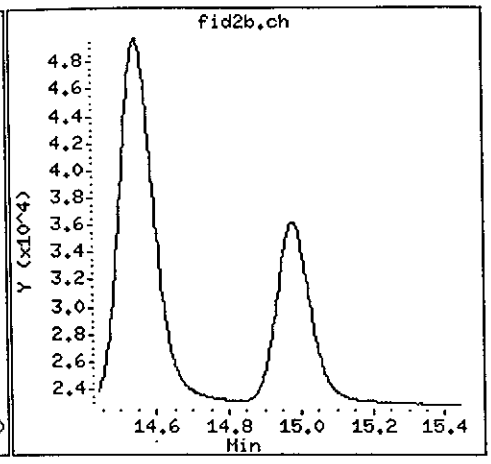
10 MTBE



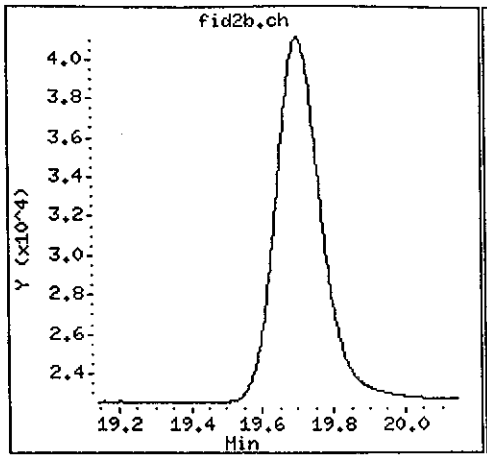
20 Benzene



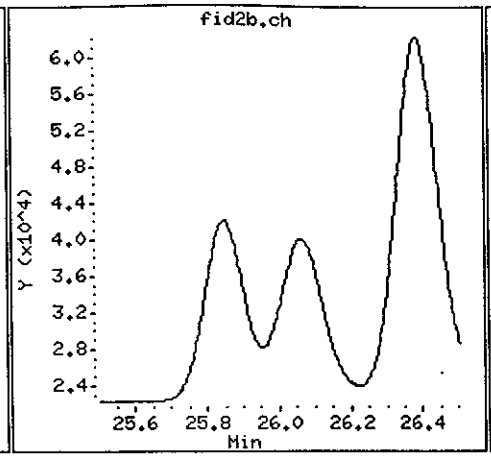
* 21 Fluorobenzene



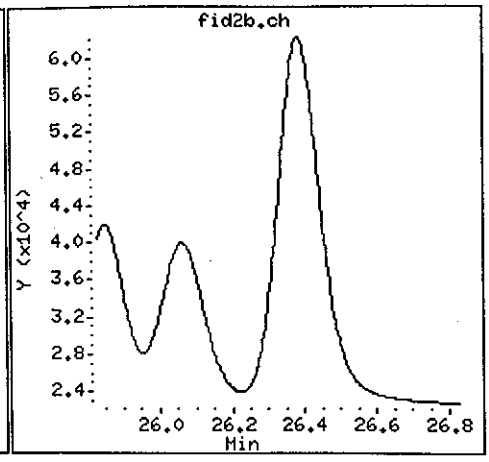
26 Toluene



33 Ethylbenzene

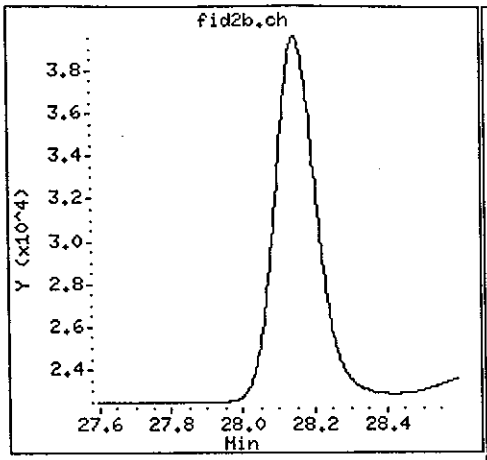


34 m,p-xylene



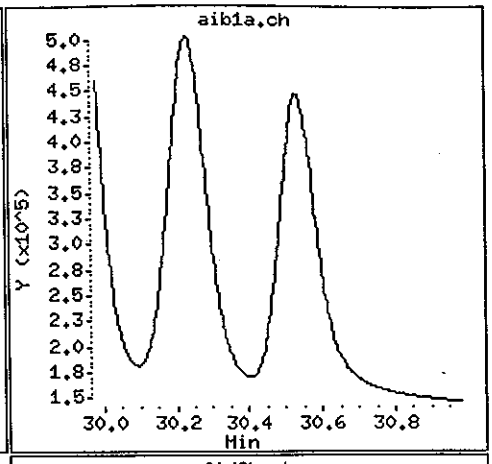
35 o-xylene

fid2b.ch

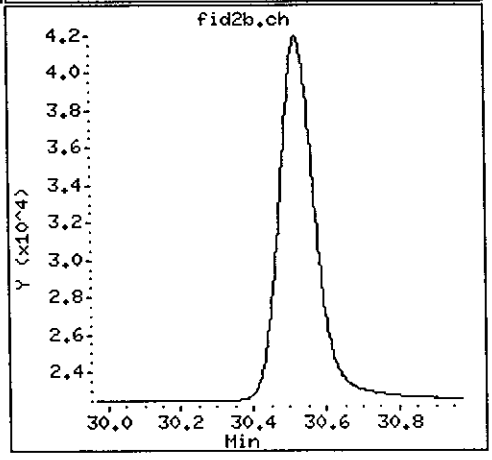


$ 39 4-bromofluorobenzene

aib1a.ch



fid2b.ch



PEL Laboratories

Data file : \\REINHARD\ee\chem\vgc6.i\V6102901.b\MBLK62.D
Lab Smp Id: 1029MBLK62 Client Smp ID: 1029MBLK62
Inj Date : 29-OCT-2001 23:16
Operator : Inst ID: vgc6.i
Smp Info : 1029MBLK62
Misc Info :
Comment :
Method : \\REINHARD\ee\chem\vgc6.i\V6102901.b\8021S.m
Meth Date : 30-Oct-2001 14:55 kavita Quant Type: ISTD
Cal Date : 23-OCT-2001 23:22 Cal File: 500PPT.D
Als bottle: 16 QC Sample: BLANK
Dil Factor: 100.00000
Integrator: Falcon Compound Sublist: cto-062.sub
Target Version: 4.04
Processing Host: REINHARD

Concentration Formula: Amt * DF * 5/(ws*(1-(m/100)))

Name	Value	Description
DF	100.000	Dilution Factor
ws	5.000	weight in grams
m	0.000	

Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/kg)
* 21 Fluorobenzene	FID2B	14.976	14.940	(1.000)	85626	30.0000	
$ 39 4-bromofluorobenzene	FID2B	30.520	30.470	(2.038)	128250	26.1417	26.1

PEL Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vgc6.i
Lab File ID: MBLK62.D
Lab Smp Id: 1029MBLK62
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\REINHARD\ee\chem\vgc6.i\V6102901.b\8021S.m
Misc Info:

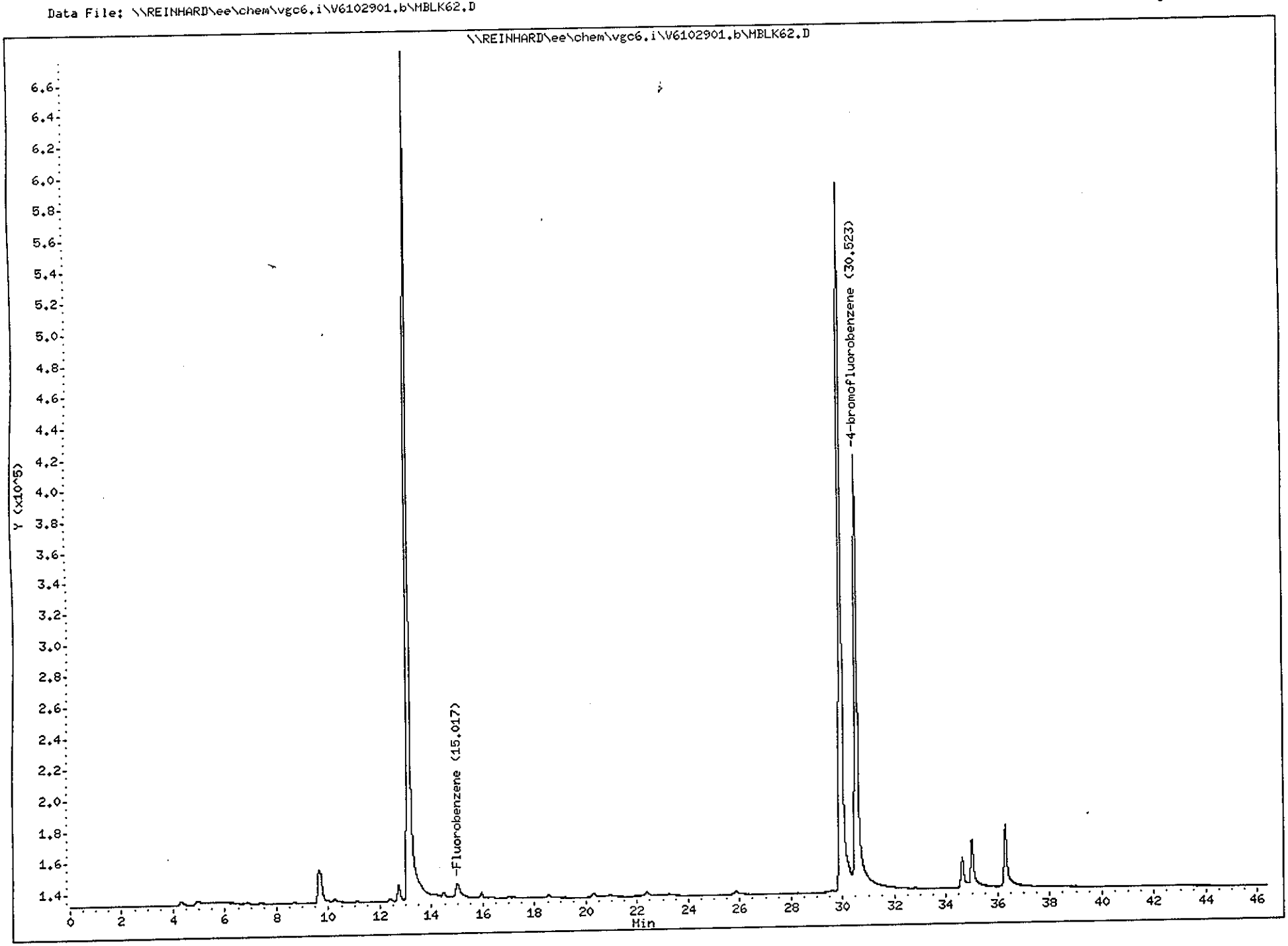
Calibration Date: 30-OCT-2001
Calibration Time: 09:56
Client Smp ID: 1029MBLK62
Level: HIGH
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	80324	40162	160648	85626	6.60

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	14.94	14.44	15.44	14.98	0.25

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

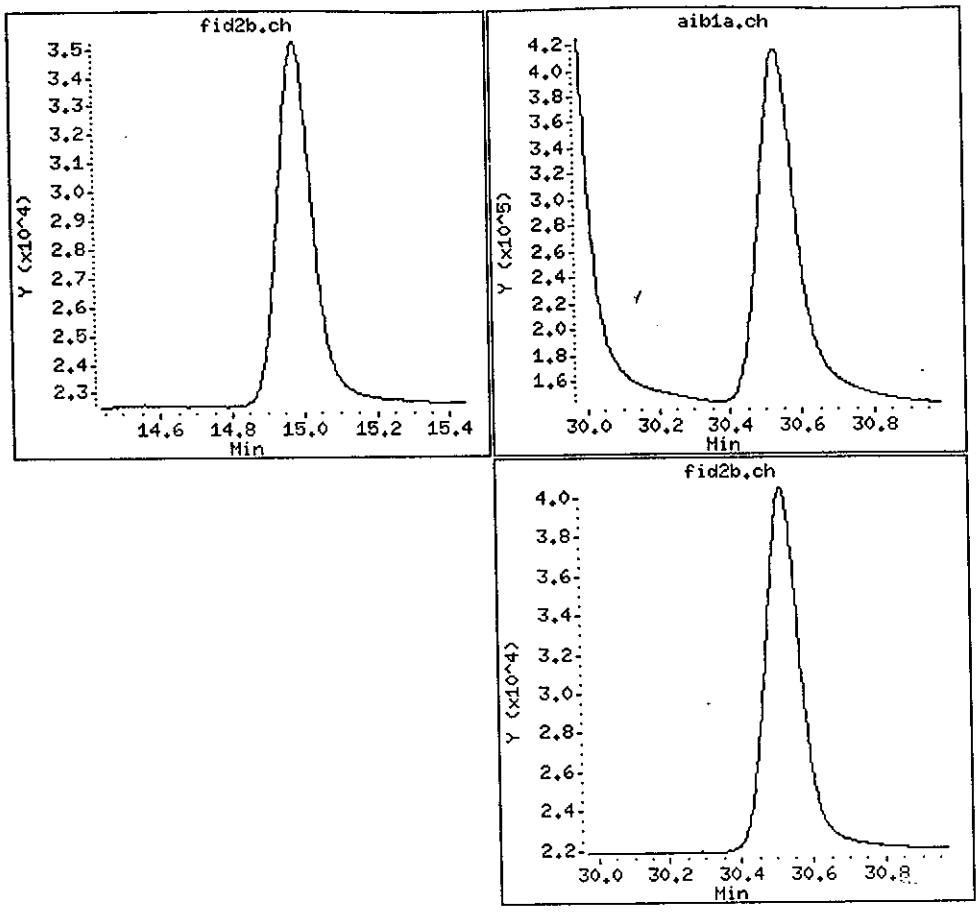
Data File: \\REINHARD\ee\chem\vgc6.i\V6102901.b\MBLK62.D



Data File: \\REINHARD\ee\chem\vgc6.i\V6102901.b\MBLK62.D

* 21 Fluorobenzene

$ 39 4-bromofluorobenzene



PEL Laboratories

Data file : \\REINHARD\ee\chem\vgc6.i\V6102901.b\MBLK62S.D
Lab Smp Id: 1029MBLK62MS Client Smp ID: 1029MBLK62MS
Inj Date : 30-OCT-2001 01:01
Operator : Inst ID: vgc6.i
Smp Info : 1029MBLK62MS
Misc Info :
Comment :
Method : \\REINHARD\ee\chem\vgc6.i\V6102901.b\8021S.m
Meth Date : 30-Oct-2001 14:55 kavita Quant Type: ISTD
Cal Date : 23-OCT-2001 23:22 Cal File: 500PPT.D
Als bottle: 18 QC Sample: MS
Dil Factor: 100.00000
Integrator: Falcon Compound Sublist: cto-062.sub
Target Version: 4.04
Processing Host: REINHARD

Concentration Formula: Amt * DF * 5/(ws*(1-(m/100)))

Name	Value	Description
DF	100.000	Dilution Factor
ws	5.000	weight in grams
m	0.000	

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/kg)
10	MTBE	FID2B	9.913	9.880	(0.662)	17481	8.50649	851(R)
20	Benzene	FID2B	14.543	14.506	(0.971)	62011	10.9774	1100(R)
* 21	Fluorobenzene	FID2B	14.976	14.940	(1.000)	86391	30.0000	
26	Toluene	FID2B	19.696	19.643	(1.315)	58678	11.0192	1100(R)
33	Ethylbenzene	FID2B	26.060	26.003	(1.740)	56145	11.0319	1100(R)
34	m,p-xylene	FID2B	26.380	26.326	(1.761)	122362	21.3476	2130(R)
35	o-xylene	FID2B	28.146	28.096	(1.879)	50219	11.0689	1110(R)
$ 39	4-bromofluorobenzene	FID2B	30.516	30.470	(2.038)	130137	26.2914	26.3

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

PEL Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vgc6.i
Lab File ID: MBLK62S.D
Lab Smp Id: 1029MBLK62MS
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\REINHARD\ee\chem\vgc6.i\V6102901.b\8021S.m
Misc Info:

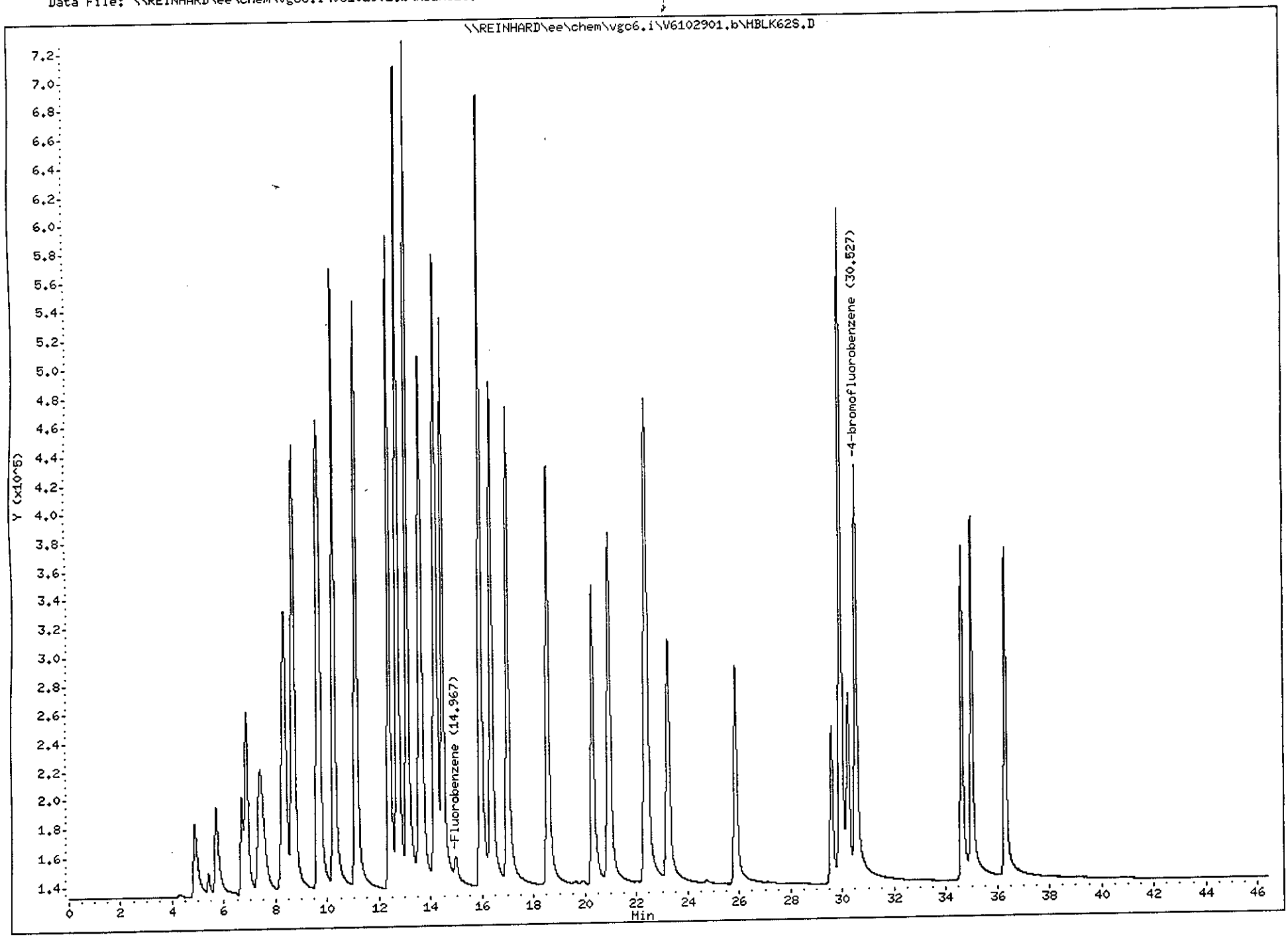
Calibration Date: 30-OCT-2001
Calibration Time: 09:56
Client Smp ID: 1029MBLK62MS
Level: HIGH
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	80324	40162	160648	86391	7.55

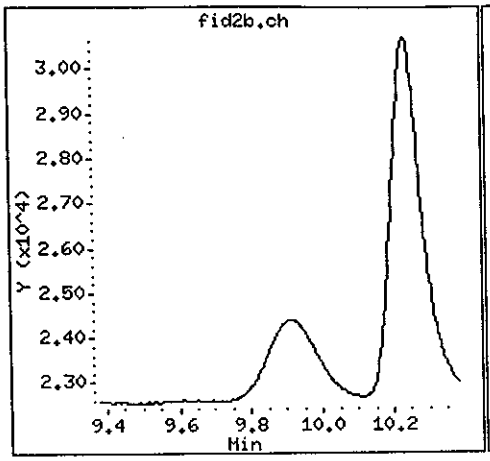
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	14.94	14.44	15.44	14.98	0.25

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

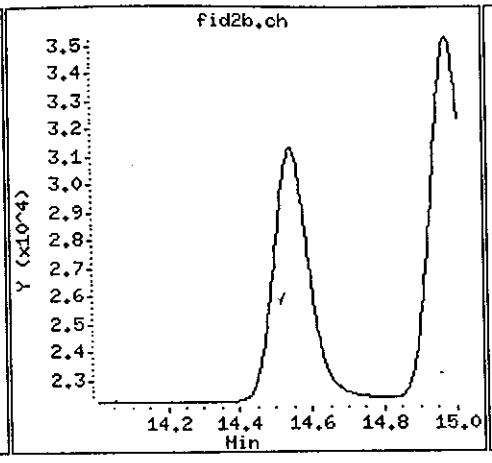
Data File: \\REINHARD\ee\chem\vgc6.i\V6102901.b\MBLK62S.D



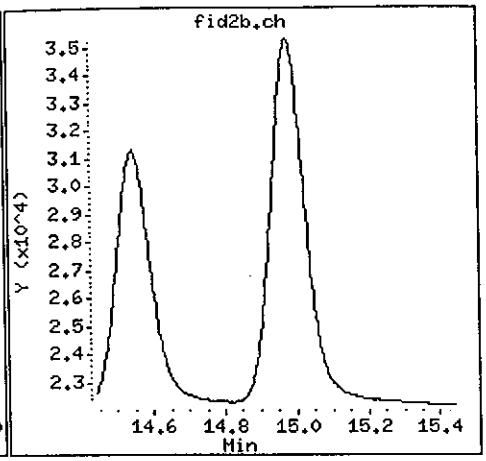
10 MTBE



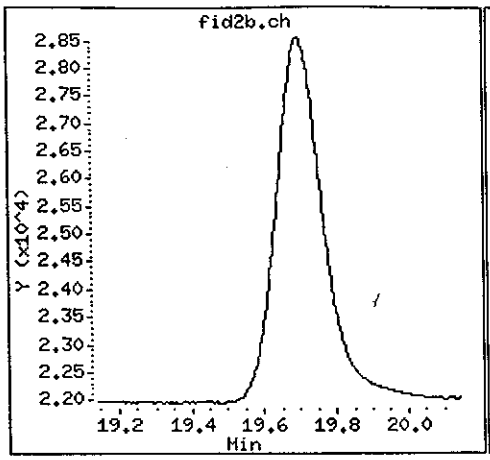
20 Benzene



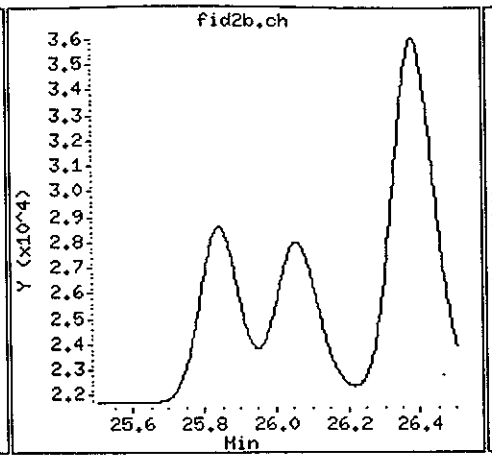
* 21 Fluorobenzene



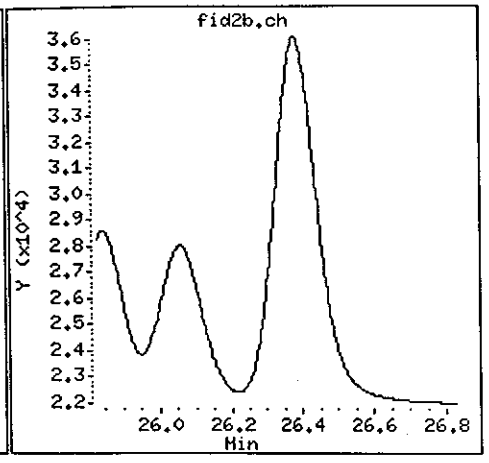
26 Toluene



33 Ethylbenzene

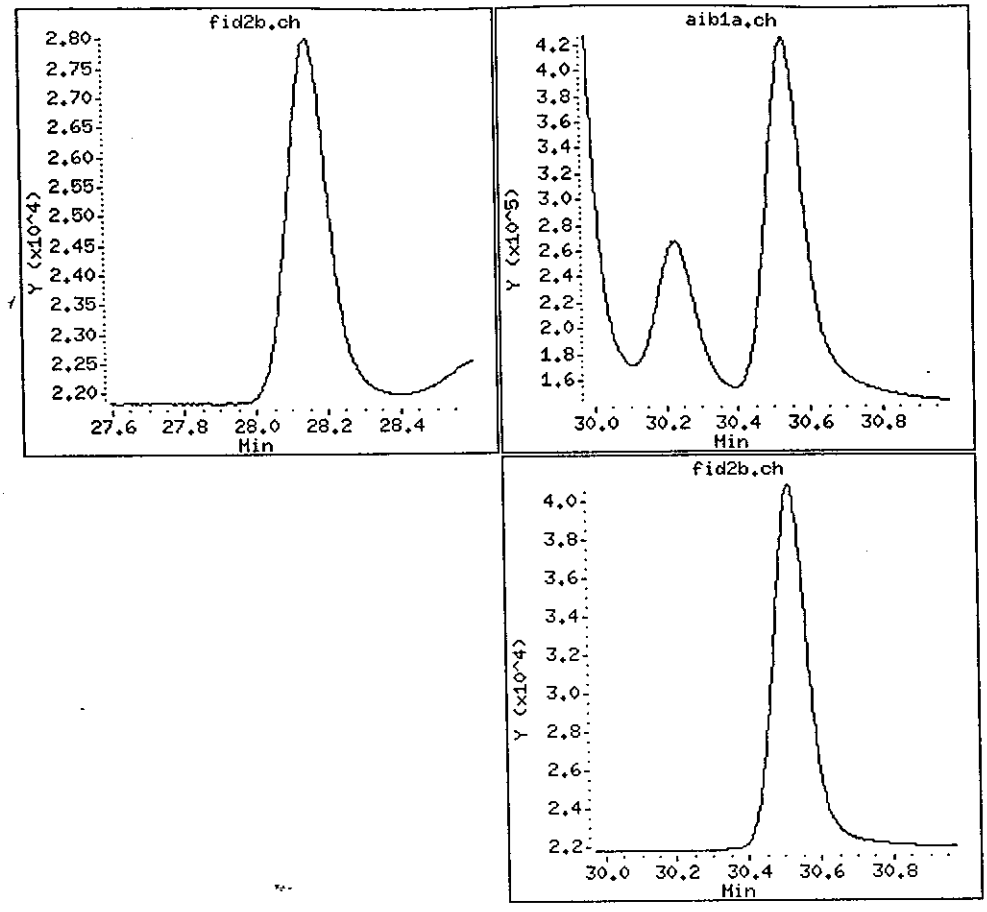


34 m,p-xylene



35 o-xylene

$ 39 4-bromofluorobenzene



PEL Laboratories

Data file : \\REINHARD\ee\chem\vgc6.i\V6102901.b\MBLK62D.D
Lab Smp Id: 1029MBLK62SD Client Smp ID: 1029MBLK62SD
Inj Date : 30-OCT-2001 01:54
Operator : Inst ID: vgc6.i
Smp Info : 1029MBLK62MSD
Misc Info :
Comment :
Method : \\REINHARD\ee\chem\vgc6.i\V6102901.b\8021S.m
Meth Date : 30-Oct-2001 14:55 kavita Quant Type: ISTD
Cal Date : 23-OCT-2001 23:22 Cal File: 500PPT.D
Als bottle: 19 QC Sample: MSD
Dil Factor: 100.00000
Integrator: Falcon Compound Sublist: cto-062.sub
Target Version: 4.04
Processing Host: REINHARD

Concentration Formula: Amt * DF * 5/(ws*(1-(m/100)))

Name	Value	Description
DF	100.000	Dilution Factor
ws	5.000	weight in grams
m	0.000	

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/kg)
	10 MTBE	FID2B	9.910	9.880	(0.662)	17377	8.54171	854(R)
	20 Benzene	FID2B	14.543	14.506	(0.971)	62609	11.1958	1120(R)
*	21 Fluorobenzene	FID2B	14.976	14.940	(1.000)	85523	30.0000	
	26 Toluene	FID2B	19.696	19.643	(1.315)	59031	11.1980	1120(R)
	33 Ethylbenzene	FID2B	26.053	26.003	(1.740)	55672	11.0499	1100(R)
	34 m,p-xylene	FID2B	26.373	26.326	(1.761)	121564	21.4237	2140(R)
	35 o-xylene	FID2B	28.143	28.096	(1.879)	50073	11.1488	1110(R)
$	39 4-bromofluorobenzene	FID2B	30.513	30.470	(2.037)	126650	25.8466	25.8

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

PEL Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vgc6.i
Lab File ID: MBLK62D.D
Lab Smp Id: 1029MBLK62SD
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\REINHARD\ee\chem\vgc6.i\V6102901.b\8021S.m
Misc Info:

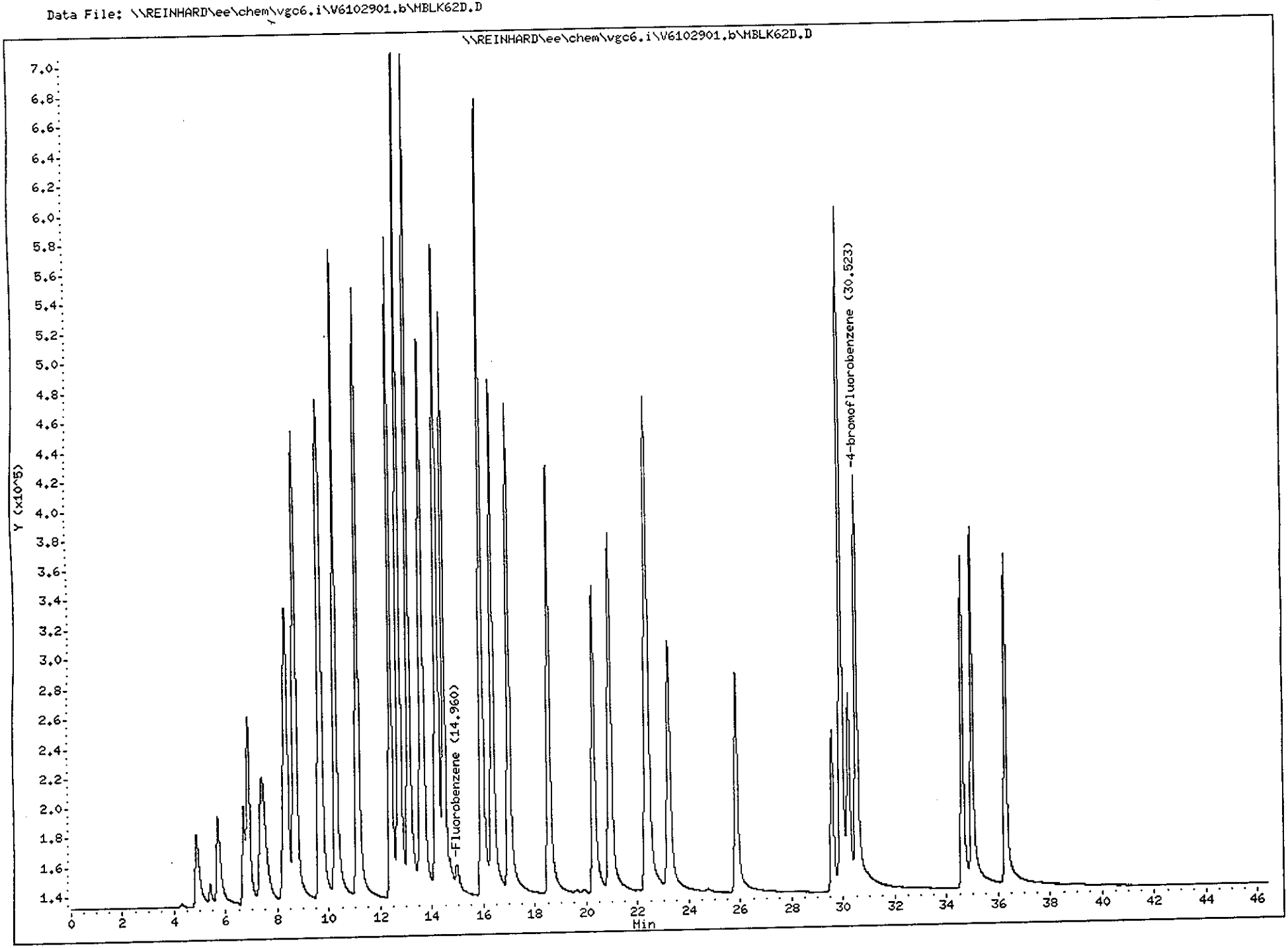
Calibration Date: 30-OCT-2001
Calibration Time: 09:56
Client Smp ID: 1029MBLK62SD
Level: HIGH
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	80324	40162	160648	85523	6.47

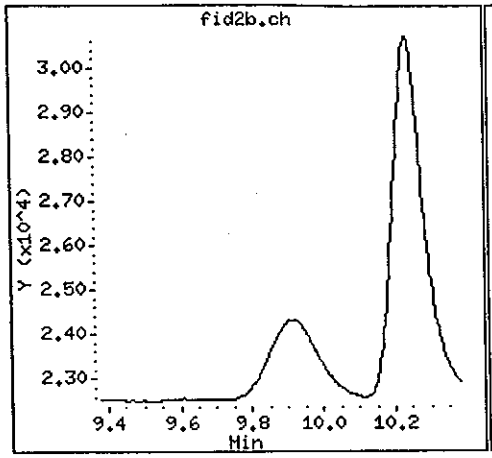
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	14.94	14.44	15.44	14.98	0.25

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

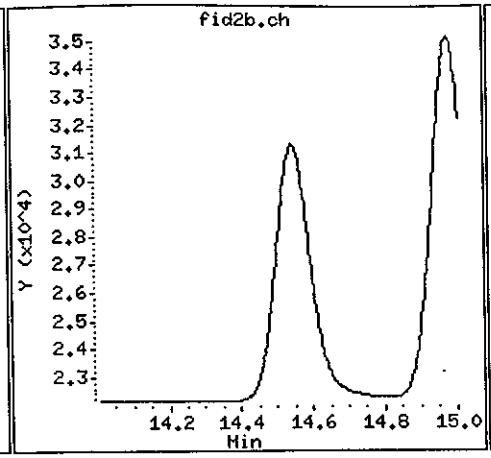
Data File: \\REINHARD\ee\chem\vgc6.i\V6102901.b\MBLK62D.D



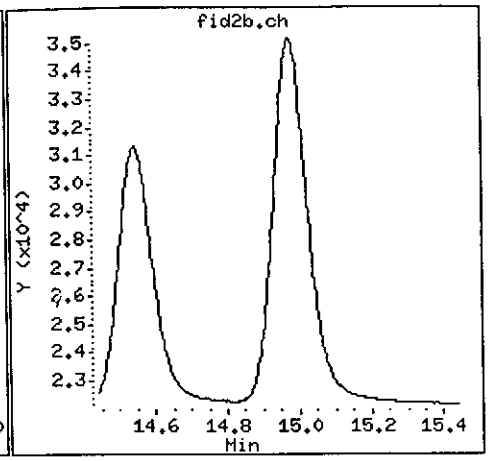
10 MTBE



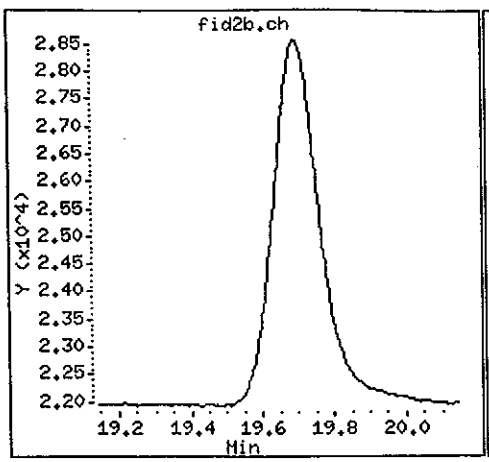
20 Benzene



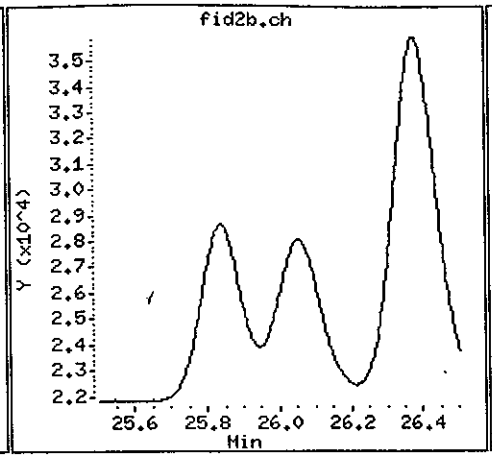
* 21 Fluorobenzene



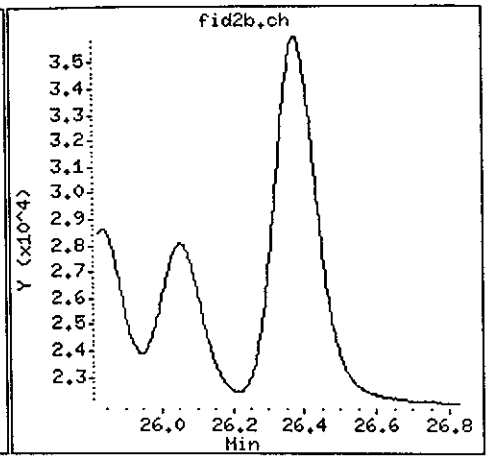
26 Toluene



33 Ethylbenzene

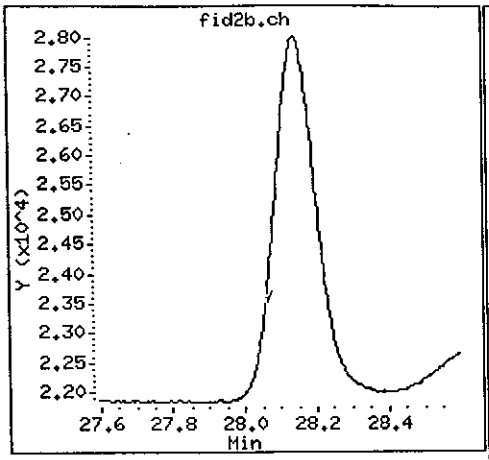


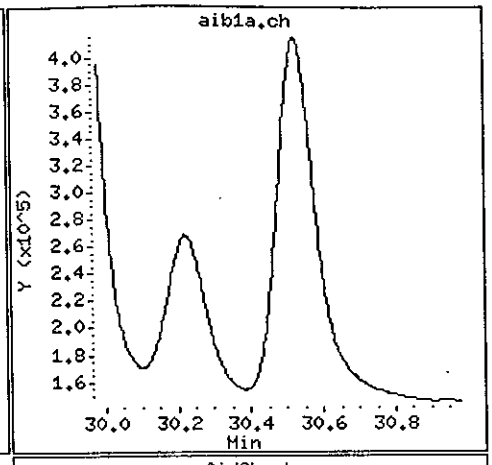
34 m,p-xylene

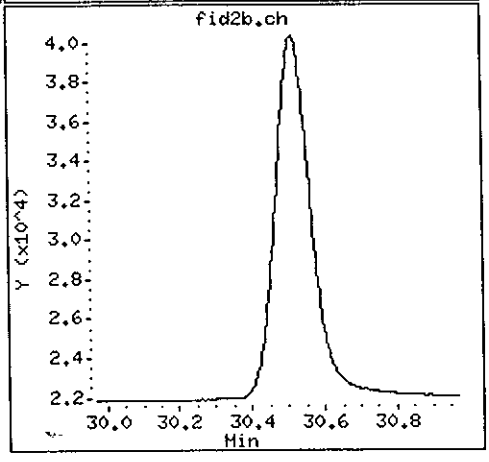


35 o-xylene

$ 39 4-bromofluorobenzene







PEL Laboratories

Data file : \\REINHARD\ee\chem\vgc6.i\V6102901.b\94-16D1.D
Lab Smp Id: 211009416DL1 Client Smp ID: B167S101801DL1
Inj Date : 30-OCT-2001 06:18
Operator : Inst ID: vgc6.i
Smp Info : 211009416
Misc Info :
Comment :
Method : \\REINHARD\ee\chem\vgc6.i\V6102901.b\8021S.m
Meth Date : 30-Oct-2001 14:55 kavita Quant Type: ISTD
Cal Date : 23-OCT-2001 23:22 Cal File: 500PPT.D
Als bottle: 24
Dil Factor: 91.60000
Integrator: Falcon Compound Sublist: cto-062.sub
Target Version: 4.04
Processing Host: REINHARD

Concentration Formula: Amt * DF * 5/(ws*(1-(m/100)))

Name	Value	Description
DF	91.600	Dilution Factor
ws	5.000	weight in grams
m	12.800	

Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/kg)
* 21 Fluorobenzene	FID2B	14.970	14.940	(1.000)	88920	30.0000	
26 Toluene	FID2B	19.383	19.643	(1.295)	24214	4.41784	464
33 Ethylbenzene	FID2B	25.930	26.003	(1.732)	191524	36.5620	3840
34 m,p-xylene	FID2B	26.376	26.326	(1.762)	250147	42.4001	4450
35 o-xylene	FID2B	28.143	28.096	(1.880)	39323	8.42080	884
$ 39 4-bromofluorobenzene	FID2B	30.506	30.470	(2.038)	148892	29.2250	33.5(Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.

PEL Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vgc6.i
Lab File ID: 94-16D1.D
Lab Smp Id: 211009416DL1
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\REINHARD\ee\chem\vgc6.i\V6102901.b\8021S.m
Misc Info:

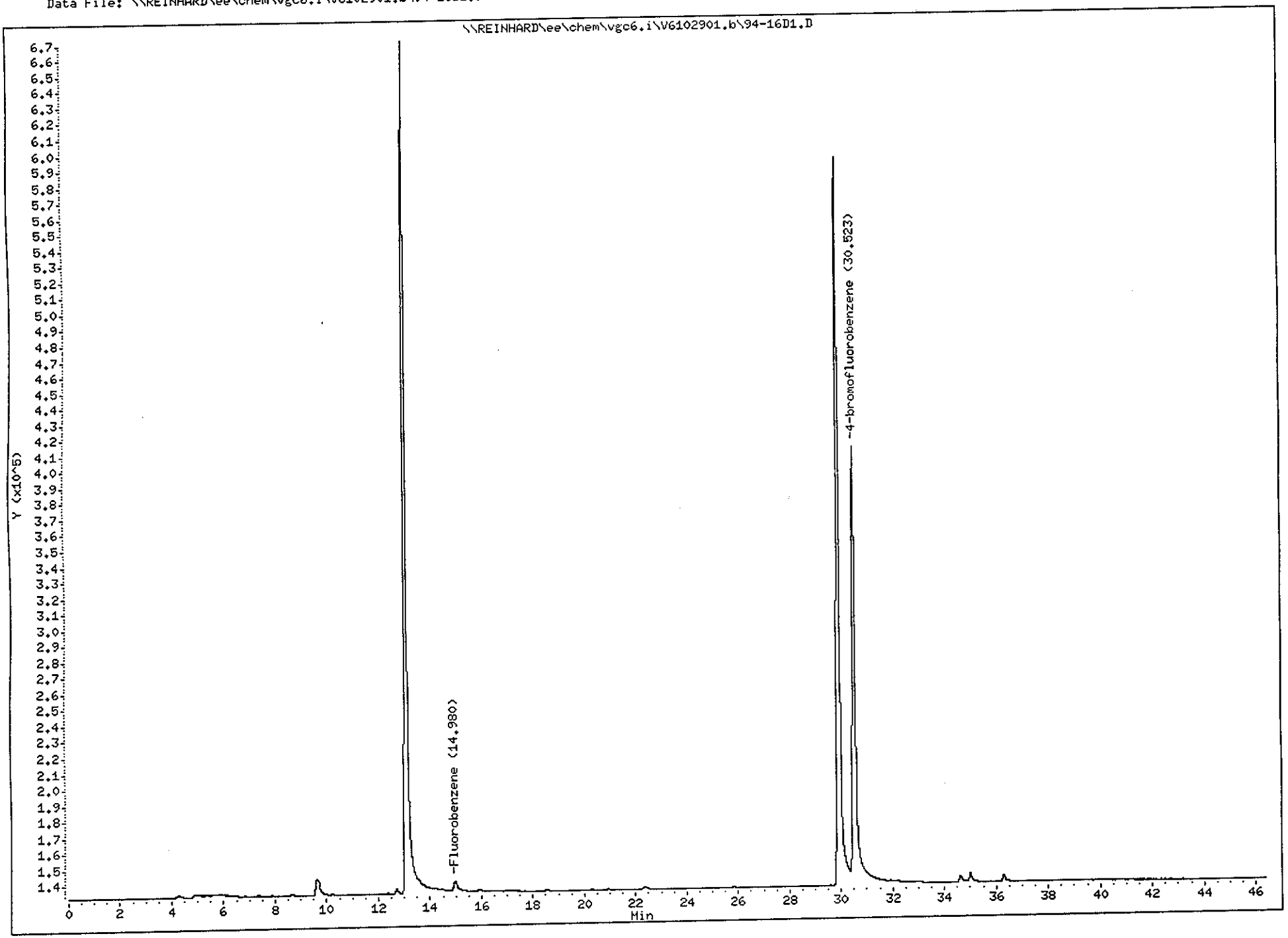
Calibration Date: 30-OCT-2001
Calibration Time: 09:56
Client Smp ID: B167S101801DL1
Level: HIGH
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	80324	40162	160648	88920	10.70

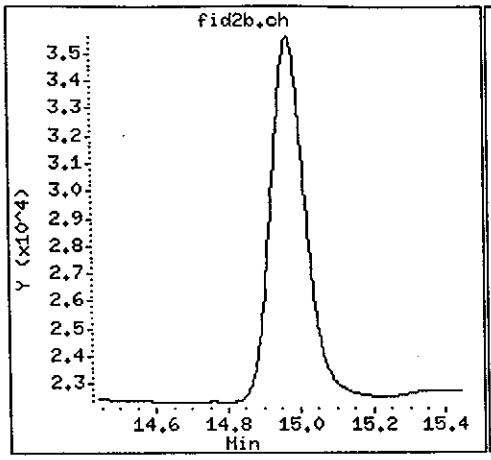
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	14.94	14.44	15.44	14.97	0.20

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

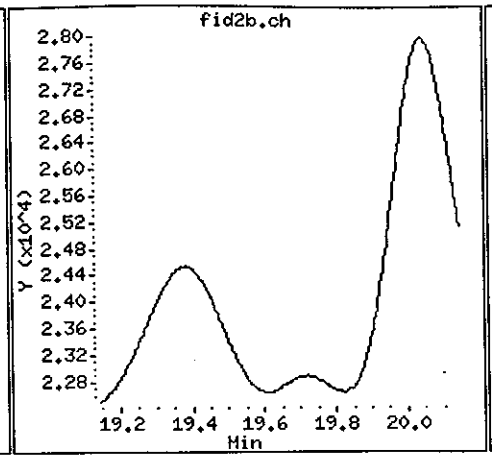
Data File: \\REINHARD\ee\chem\vgc6.i\V6102901.b\94-16D1.D



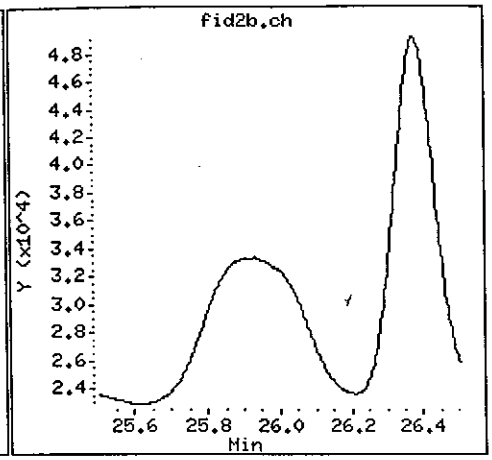
* 21 Fluorobenzene



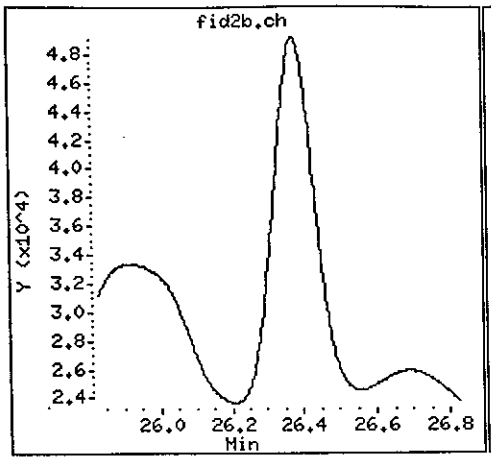
26 Toluene



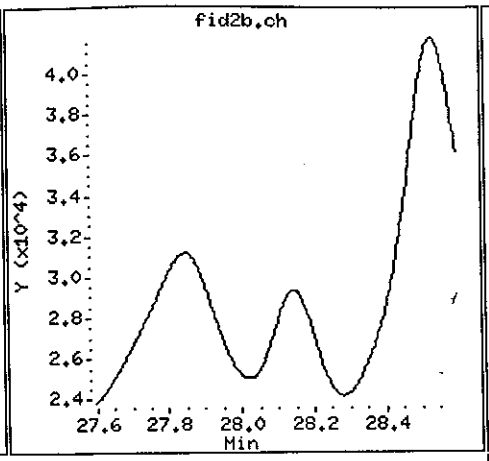
33 Ethylbenzene



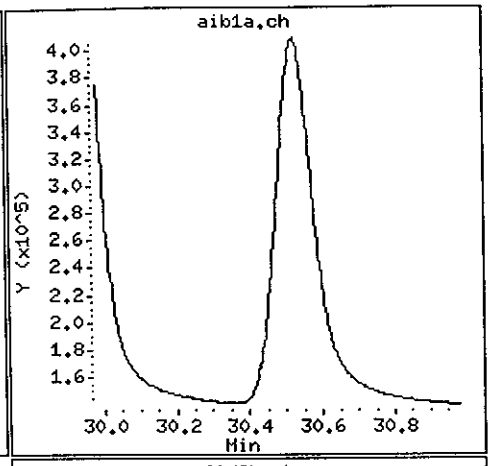
34 m,p-xylene

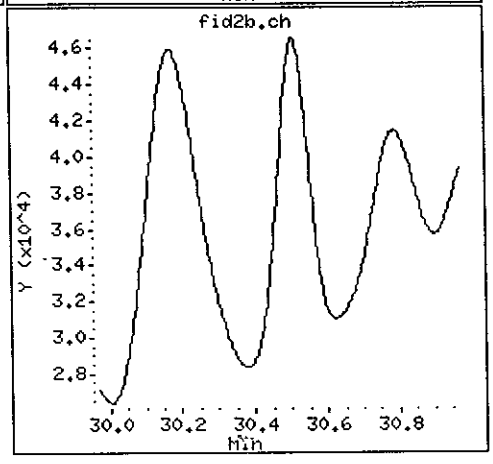


35 o-xylene



$ 39 4-bromofluorobenzene





PEL Laboratories

Data file : \\REINHARD\ee\chem\vgc6.i\V6102901.b\CCV66.D
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Inj Date : 30-OCT-2001 09:56
Operator : Inst ID: vgc6.i
Smp Info : 1029CCV66
Misc Info :
Comment :
Method : \\REINHARD\ee\chem\vgc6.i\V6102901.b\8021S.m
Meth Date : 30-Oct-2001 14:55 kavita Quant Type: ISTD
Cal Date : 23-OCT-2001 23:22 Cal File: 500PPT.D
Als bottle: 26
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: cto-062.sub
Target Version: 4.04
Processing Host: REINHARD

Concentration Formula: Amt * DF * 5/(ws*(1-(m/100)))

Name	Value	Description
DF	1.000	Dilution Factor
ws	5.000	weight in grams
m	0.000	

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/kg)
	10 MTBE	FID2B	9.880	9.880	(0.661)	41340	21.6360	21.6(M)
	20 Benzene	FID2B	14.506	14.506	(0.971)	160793	30.6141	30.6
*	21 Fluorobenzene	FID2B	14.940	14.940	(1.000)	80324	30.0000	
	26 Toluene	FID2B	19.643	19.643	(1.315)	143598	29.0032	29.0
	33 Ethylbenzene	FID2B	26.003	26.003	(1.741)	134827	28.4930	28.5
	34 m,p-xylene	FID2B	26.326	26.326	(1.762)	301127	56.5036	56.5
	35 o-xylene	FID2B	28.096	28.096	(1.881)	122034	28.9295	28.9
$	39 4-bromofluorobenzene	FID2B	30.470	30.470	(2.039)	124633	27.0813	27.1

QC Flag Legend

M - Compound response manually integrated.

PEL Laboratories

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vgc6.i
Lab File ID: CCV66.D
Lab Smp Id: 1029CCV66
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\REINHARD\ee\chem\vgc6.i\V6102901.b\8021S.m
Misc Info:

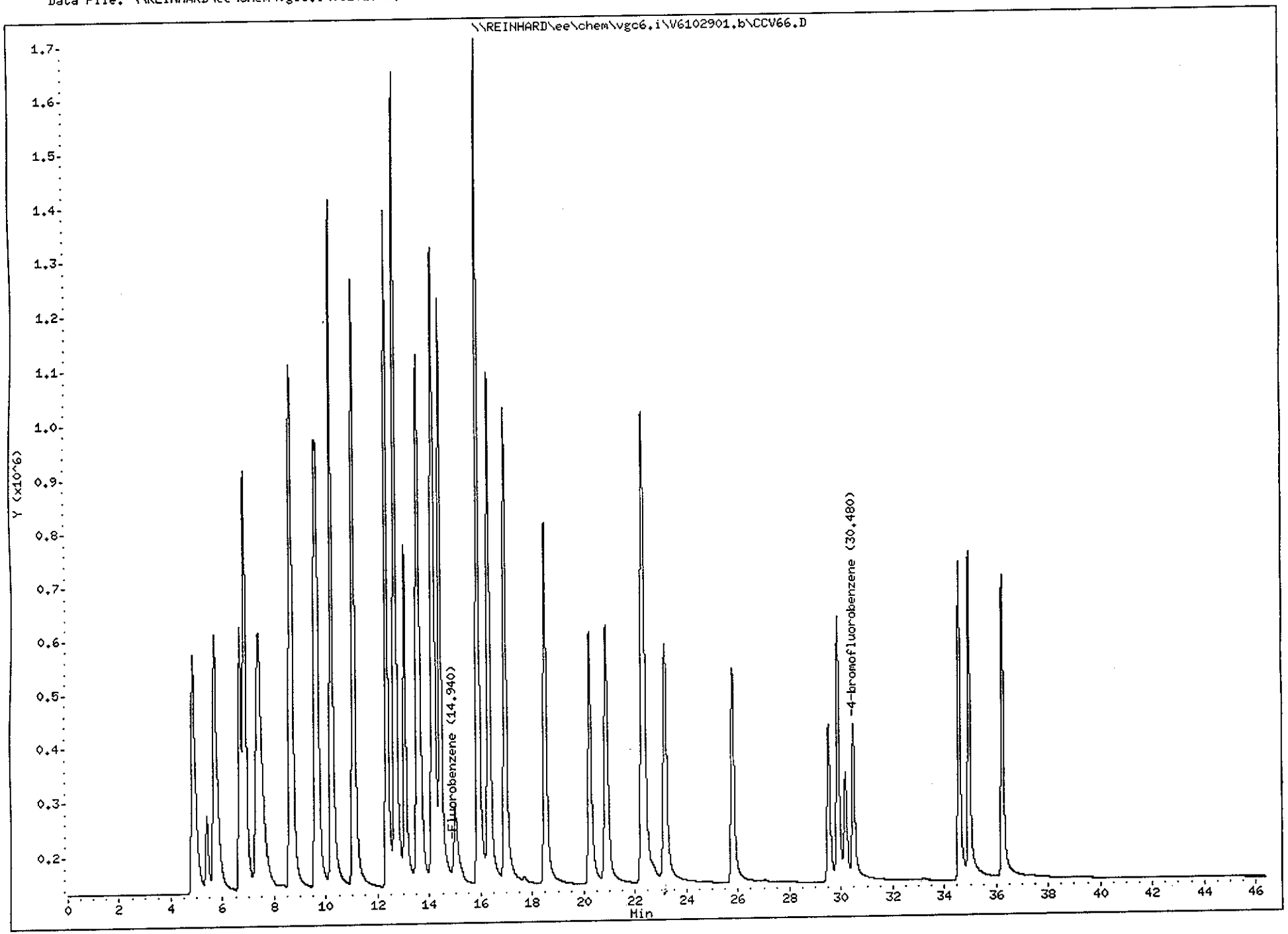
Calibration Date: 30-OCT-2001
Calibration Time: 09:56
Client Smp ID: 1029CCV66
Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	80324	40162	160648	80324	0.00

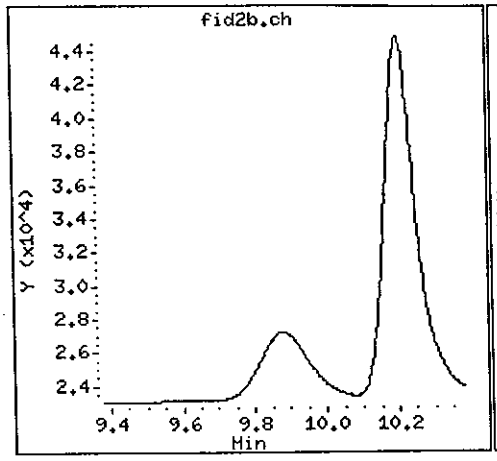
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
21 Fluorobenzene	14.94	14.44	15.44	14.94	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

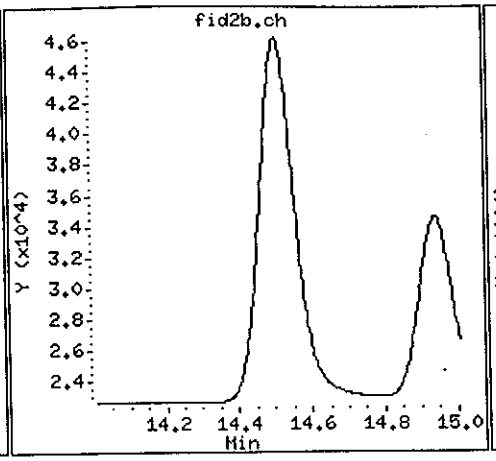
Data File: \\REINHARD\ee\chem\vgc6.i\V6102901.b\CCV66.D



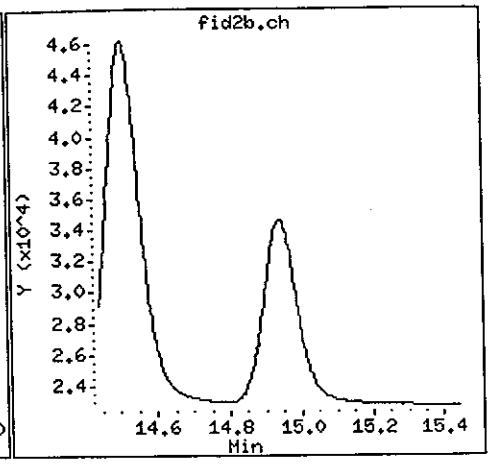
10 MTBE



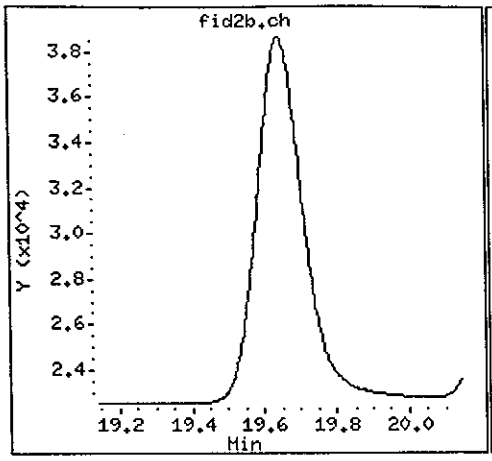
20 Benzene



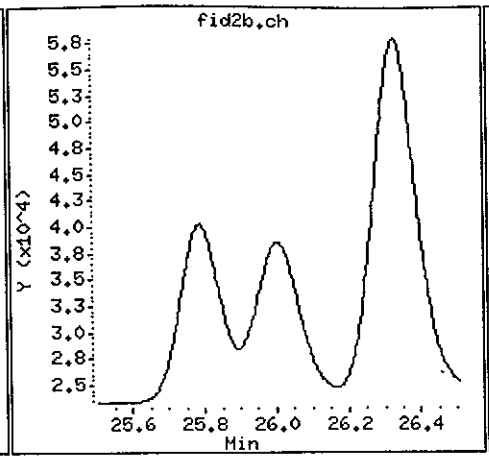
× 21 Fluorobenzene



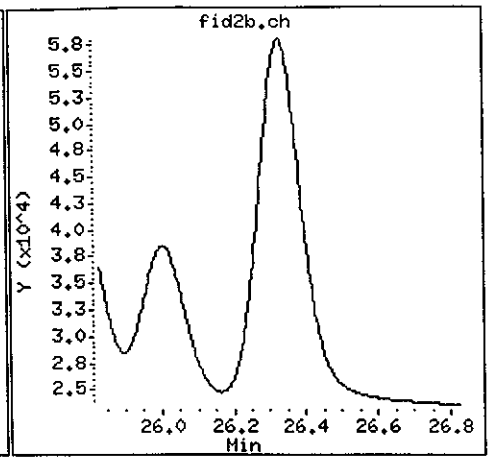
26 Toluene



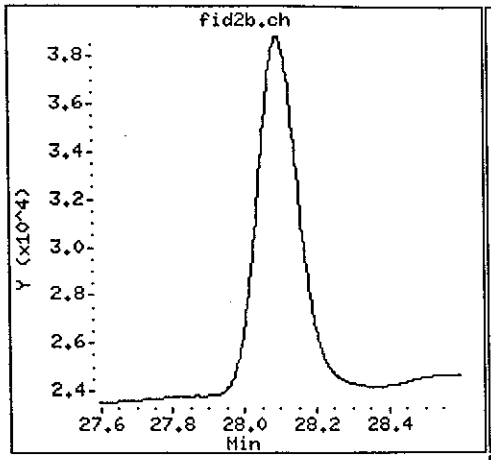
33 Ethylbenzene



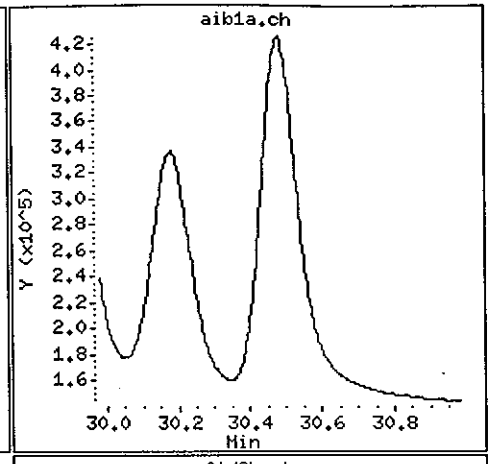
34 m,p-xylene

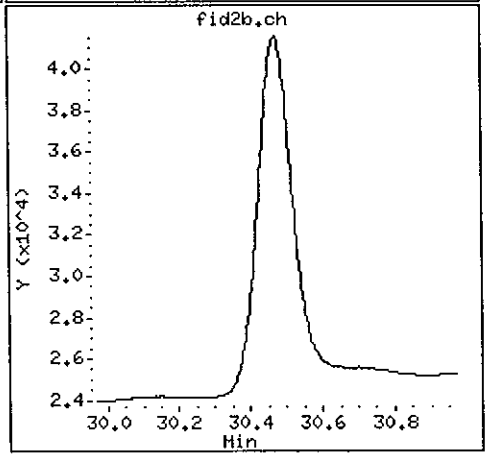


35 o-xylene



$ 39 4-bromofluorobenzene





Appendix C

Laboratory Analytical Reports for Groundwater Samples (provided on CD)

1010000 1000101 1100110
PEL Laboratories, Inc.

Customer Name:	CH2MHILL
Date & Time Received:	5-10-02; 10:10 AM
Date Reported:	5-23-02
PEL Submission Number:	2204029
Project:	NAS Cecil Field

Samples: The submission consisted of 11 samples with sample identification shown in the attached data tables.

Tests: The sample was analyzed for EPA method: 601, 602, 610, 6010, and FLPRO

Results: See the attached data tables for results.

Distribution of Reports:

1-CH2MHILL
Attn: Tatiana Romanova
Phone: (770) 604-9182

2-CH2M HILL
Attn: Jennifer Zimmerman
Phone: (904) 777-4262

Respectfully Submitted,

Brian Spann
Laboratory Manager
PEL Laboratories, Inc.

CCI NAVY RAC

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 qualitities of apparently identical or similar materials.

4420 Pendola Point Road • Tampa, Florida 33619
(813) 247-2805 • FAX: (813) 248-1537

Cross-Reference sheet for SDG 2204029-Cecil Field

	SDG	FieldID	SampleType	LabSampleID	SampleDescription
Cecil Field	2204029	0517BLK21	MB	0517BLK21	0517BLK21
Cecil Field	2204029	0517LCS21	BS	0517LCS21	0517LCS21
Cecil Field	2204029	062CEF432N	N	220402901	062-CEF43-2N-Q2-02-4
Cecil Field	2204029	062CEF432NMS	MS	220402902	062-CEF43-2N-Q2-02-4
Cecil Field	2204029	062CEF432NSD	SD	220402903	062-CEF43-2N-Q2-02-4
Cecil Field	2204029	062CEF4333N	N	220402907	062-CEF43-33N-Q2-02-
Cecil Field	2204029	062CEF4338N	N	220402908	062-CEF43-38N-Q2-02-
Cecil Field	2204029	062CEF436N	N	220402904	062-CEF43-6N-Q2-02-4
Cecil Field	2204029	062CEF437N	N	220402905	062-CEF43-7N-Q2-02-4
Cecil Field	2204029	062CEF439N	N	220402906	062-CEF43-9N-Q2-02-4
Cecil Field	2204029	062DUPQ20249	N	220402909	062-DUP-Q2-02-49
Cecil Field	2204029	062EQBQ20249	EB	220402910	062-EQB-Q2-02-49
Cecil Field	2204029	062TBQ20249	TB	220402911	062-TB-Q2-02-49
Cecil Field	2204029	514BLK	MB	69113	514BLK
Cecil Field	2204029	514LCS	BS	69114	514LCS
Cecil Field	2204029	68997BLK	MB	68997	68997BLK
Cecil Field	2204029	68998LCS	BS	68998	68998LCS
Cecil Field	2204029	BLK2	MB	69260	BLK2
Cecil Field	2204029	BLK2MS	BS	69262	BLK2
Cecil Field	2204029	BLK2MSD	BD	69263	BLK2
Cecil Field	2204029	LCS2	BS	69261	LCS2

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Organics

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. The lower of the two values is reported on Form 1 with a "P" qualifier.

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.

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 601/602

CASE NARRATIVE
GC VOLATILE ORGANICS

PEL Lab Reference No./SDG: 2204029

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

EPA601/602

IV. PREPARATION

Water samples were prepared by SW846/5030 for EPA601/602 volatiles analysis.
All aspects of sample preparation proceeded without exception.

V. ANALYSIS

A. Calibration:

All acceptance criteria were met. PEL utilizes the calibration stated in EPA SW-846 for volatiles analysis. The calibration criteria in the EPA600 series requires only three points, whereas SW-846 requires at least five. In addition, the use of internal standards are employed as well as Response Factors for calibration criteria and continuing calibration verification to ensure optimal quality and accuracy.

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:

CASE NARRATIVE
GC VOLATILE ORGANICS

PEL Lab Reference No./SDG: 2204029

Client: CH2M Hill

MS - 062CEF432NMS was analyzed with the water samples on 05/17/02. The following analyte(s) were recovered below criteria: Ethylbenzene at 76 % with criteria of (87-120), o-Xylene at 78 % with criteria of (93-122), p,m-Xylene at 81.5 % with criteria of (94-116), Toluene at 68 % with criteria of (86-120).

SD - 062CEF432NSD was analyzed with the water samples on 05/17/02. The following analyte(s) were recovered above criteria: MTBE at 133 % with criteria of (81-129).
The MS/SD set was reanalyzed with similar results. Only one set is included in the hard copy and Edata. Samples coded accordingly.

E. Internal Standards:

All acceptance criteria were met.

F. Samples:

Sample analysis proceeded normally. Client specific reporting limits were used.

Analytes were detected in Equipment Blank 062EQBQ20249. The following analyte(s) were detected below RL: Dibromochloromethane at 0.78 UG/L. The following analyte(s) were detected above RL: Bromodichloromethane at 3.7 UG/L, Chloroform at 6.3 UG/L. This sample was reanalyzed with similar results. Only one analysis is included in the hard copy and Edata.

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:** 05-23-02

VOLATILE ORGANIC CROSS REFERENCE TABLE

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

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 2204029

Method: 601/602

EPA Sample No	Lab Sample ID
062CEF432N	220402901
062CEF436N	220402904
062CEF437N	220402905
062CEF439N	220402906
062CEF4333N	220402907
062CEF4338N	220402908
062DUPQ20249	220402909
062EQBQ20249	220402910
062TBQ20249	220402911

Sample Data

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062CEF432N

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

Lab Code: PEL Case No. SAS No: SDG No.: 2204029

Matrix: WATER Lab Sample ID: 220402901 Lab File ID: 29-1.D

Sample wt/vol: 5 Units: ML Date Received: 05/10/02

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 05/17/02 Time: 1038

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID: CEF-043-2N Method: 601/602

GPC Cleanup : (Y/N) N pH:

Column(1): RTX-502.2 ID: 0.53 (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	2	U
156-60-5	trans-1,2-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
107-06-2	1,2-Dichloroethane	1	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
75-27-4	Bromodichloromethane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
127-18-4	Tetrachloroethene	1	U
124-48-1	Dibromochloromethane	1	U
108-90-7	Chlorobenzene	1	U
75-25-2	Bromoform	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
541-73-1	1,3-Dichlorobenzene	1	U

1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062CEF432N

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

Lab Code: PEL Case No. SAS No: SDG No.: 2204029

Matrix: WATER Lab Sample ID: 220402901 Lab File ID: 29-1.D

Sample wt/vol: 5 Units: ML Date Received: 05/10/02

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 05/17/02 Time: 1038

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID: CEF-043-2N Method: 601/602

GPC Cleanup : (Y/N) N pH:

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

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
71-43-2	Benzene	0.32	J
1634-04-4	MTBE	1	U
108-88-3	Toluene	26.3	
100-41-4	Ethylbenzene	20.5	
511-39-00	p,m-Xylene	37.1	
95-47-6	o-Xylene	25.9	

1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062CEF436N

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

Lab Code: PEL Case No. SAS No: SDG No.: 2204029

Matrix: WATER Lab Sample ID: 220402904 Lab File ID: 29-4.D

Sample wt/vol: 5 Units: ML Date Received: 05/10/02

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 05/17/02 Time: 1251

PercentSolids: 0 decanted: Dilution Factor: 1

Extraction: PURGETRAP Station ID: CEF-043-6N Method: 601/602

GPC Cleanup: (Y/N) N pH:

Column(1): RTX-502.2 ID: 0.53 (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	2	U
156-60-5	trans-1,2-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
107-06-2	1,2-Dichloroethane	1	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
75-27-4	Bromodichloromethane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
127-18-4	Tetrachloroethene	1	U
124-48-1	Dibromochloromethane	1	U
108-90-7	Chlorobenzene	1	U
75-25-2	Bromoform	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
541-73-1	1,3-Dichlorobenzene	1	U

1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062CEF436N

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

Lab Code: PEL Case No. SAS No: SDG No.: 2204029

Matrix: WATER Lab Sample ID: 220402904 Lab File ID: 29-4.D

Sample wt/vol: 5 Units: ML Date Received: 05/10/02

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 05/17/02 Time: 1251

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID: CEF-043-6N Method: 601/602

GPC Cleanup : (Y/N) N pH:

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

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
71-43-2	Benzene	1	U
1634-04-4	MTBE	1	U
108-88-3	Toluene	0.66	J
100-41-4	Ethylbenzene	15.6	
511-39-00	p,m-Xylene	36.8	
95-47-6	o-Xylene	30.9	

1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062CEF437N

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

Lab Code: PEL Case No. SAS No: SDG No.: 2204029

Matrix: WATER Lab Sample ID: 220402905 Lab File ID: 29-5.D

Sample wt/vol: 5 Units: ML Date Received: 05/10/02

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 05/17/02 Time: 1334

PercentSolids: 0 decanted: Dilution Factor: 1

Extraction: PURGETRAP Station ID: CEF-043-7N Method: 601/602

GPC Cleanup: (Y/N) N pH:

Column(1): RTX-502.2 ID: 0.53 (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	2	U
156-60-5	trans-1,2-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
107-06-2	1,2-Dichloroethane	1	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
75-27-4	Bromodichloromethane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
127-18-4	Tetrachloroethene	1	U
124-48-1	Dibromochloromethane	1	U
108-90-7	Chlorobenzene	1	U
75-25-2	Bromoform	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
541-73-1	1,3-Dichlorobenzene	1	U

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062CEF437N

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

Lab Code: PEL Case No. SAS No: SDG No.: 2204029

Matrix: WATER Lab Sample ID: 220402905 Lab File ID: 29-5.D

Sample wt/vol: 5 Units: ML Date Received: 05/10/02

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 05/17/02 Time: 1334

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID: CEF-043-7N Method: 601/602

GPC Cleanup : (Y/N) N pH:

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

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
71-43-2	Benzene	1	U
1634-04-4	MTBE	1	U
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
511-39-00	p,m-Xylene	2	U
95-47-6	o-Xylene	1	U

1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062CEF439N

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

Lab Code: PEL Case No. SAS No: SDG No.: 2204029

Matrix: WATER Lab Sample ID: 220402906 Lab File ID: 29-6.D

Sample wt/vol: 5 Units: ML Date Received: 05/10/02

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 05/17/02 Time: 1757

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID: CEF-043-9N Method: 601/602

GPC Cleanup : (Y/N) N pH:

Column(1): RTX-502.2 ID: 0.53 (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	2	U
156-60-5	trans-1,2-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
107-06-2	1,2-Dichloroethane	1	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
75-27-4	Bromodichloromethane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
127-18-4	Tetrachloroethene	1	U
124-48-1	Dibromochloromethane	1	U
108-90-7	Chlorobenzene	1	U
75-25-2	Bromoform	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
541-73-1	1,3-Dichlorobenzene	1	U

1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062CEF439N

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

Lab Code: PEL Case No. SAS No: SDG No.: 2204029

Matrix: WATER Lab Sample ID: 220402906 Lab File ID: 29-6.D

Sample wt/vol: 5 Units: ML Date Received: 05/10/02

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 05/17/02 Time: 1757

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID: CEF-043-9N Method: 601/602

GPC Cleanup : (Y/N) N pH:

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

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
71-43-2	Benzene	1	U
1634-04-4	MTBE	1	U
108-88-3	Toluene	0.4	J
100-41-4	Ethylbenzene	18	
511-39-00	p,m-Xylene	44.4	
95-47-6	o-Xylene	27	

1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062CEF4333N

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

Lab Code: PEL Case No. SAS No: SDG No.: 2204029

Matrix: WATER Lab Sample ID: 220402907 Lab File ID: 29-7.D

Sample wt/vol: 5 Units: ML Date Received: 05/10/02

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 05/17/02 Time: 1554

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID: CEF-043-33N Method: 601/602

GPC Cleanup : (Y/N) N pH:

Column(1): RTX-502.2 ID: 0.53 (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	2	U
156-60-5	trans-1,2-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
107-06-2	1,2-Dichloroethane	1	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
75-27-4	Bromodichloromethane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
127-18-4	Tetrachloroethene	1	U
124-48-1	Dibromochloromethane	1	U
108-90-7	Chlorobenzene	1	U
75-25-2	Bromoform	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
541-73-1	1,3-Dichlorobenzene	1	U

1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062CEF4333N

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

Lab Code: PEL Case No. SAS No: SDG No.: 2204029

Matrix: WATER Lab Sample ID: 220402907 Lab File ID: 29-7.D

Sample wt/vol: 5 Units: ML Date Received: 05/10/02

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 05/17/02 Time: 1554

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID: CEF-043-33N Method: 601/602

GPC Cleanup : (Y/N) N pH:

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

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
71-43-2	Benzene	1	U
1634-04-4	MTBE	1	U
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
511-39-00	p,m-Xylene	2	U
95-47-6	o-Xylene	1	U

1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062CEF4338N

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

Lab Code: PEL Case No. SAS No: SDG No.: 2204029

Matrix: WATER Lab Sample ID: 220402908 Lab File ID: 29-8.D

Sample wt/vol: 5 Units: ML Date Received: 05/10/02

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 05/17/02 Time: 1635

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID: CEF-043-38N Method: 601/602

GPC Cleanup : (Y/N) N pH:

Column(1): RTX-502.2 ID: 0.53 (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	2	U
156-60-5	trans-1,2-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
107-06-2	1,2-Dichloroethane	1	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
75-27-4	Bromodichloromethane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
127-18-4	Tetrachloroethene	1	U
124-48-1	Dibromochloromethane	1	U
108-90-7	Chlorobenzene	1	U
75-25-2	Bromoform	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
541-73-1	1,3-Dichlorobenzene	1	U

1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062CEF4338N

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

Lab Code: PEL Case No. SAS No: SDG No.: 2204029

Matrix: WATER Lab Sample ID: 220402908 Lab File ID: 29-8.D

Sample wt/vol: 5 Units: ML Date Received: 05/10/02

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 05/17/02 Time: 1635

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID: CEF-043-38N Method: 601/602

GPC Cleanup : (Y/N) N pH:

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

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
71-43-2	Benzene	1	U
1634-04-4	MTBE	1	U
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
511-39-00	p,m-Xylene	2	U
95-47-6	o-Xylene	1	U

1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062DUPQ20249

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

Lab Code: PEL Case No. SAS No: SDG No.: 2204029

Matrix: WATER Lab Sample ID: 220402909 Lab File ID: 29-9.D

Sample wt/vol: 5 Units: ML Date Received: 05/10/02

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 05/17/02 Time: 1716

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID: Duplicate Method: 601/602

GPC Cleanup : (Y/N) N pH:

Column(1): RTX-502.2 ID: 0.53 (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	2	U
156-60-5	trans-1,2-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
107-06-2	1,2-Dichloroethane	1	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
75-27-4	Bromodichloromethane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
127-18-4	Tetrachloroethene	1	U
124-48-1	Dibromochloromethane	1	U
108-90-7	Chlorobenzene	1	U
75-25-2	Bromoform	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
541-73-1	1,3-Dichlorobenzene	1	U

1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062DUPQ20249

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

Lab Code: PEL Case No. SAS No: SDG No.: 2204029

Matrix: WATER Lab Sample ID: 220402909 Lab File ID: 29-9.D

Sample wt/vol: 5 Units: ML Date Received: 05/10/02

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 05/17/02 Time: 1716

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID: Duplicate Method: 601/602

GPC Cleanup : (Y/N) N pH:

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

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
71-43-2	Benzene	1	U
1634-04-4	MTBE	1	U
108-88-3	Toluene	0.59	J
100-41-4	Ethylbenzene	15.9	
511-39-00	p,m-Xylene	36.9	
95-47-6	o-Xylene	31	

1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062EQBQ20249

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

Lab Code: PEL Case No. SAS No: SDG No.: 2204029

Matrix: WATER Lab Sample ID: 220402910 Lab File ID: 29-10R.D

Sample wt/vol: 5 Units: ML Date Received: 05/10/02

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 05/17/02 Time: 1512

PercentSolids: 0 decanted: Dilution Factor: 1

Extraction: PURGETRAP Station ID: Equipment Blank Method: 601/602

GPC Cleanup: (Y/N) N pH:

Column(1): RTX-502.2 ID: 0.53 (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	2	U
156-60-5	trans-1,2-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
67-66-3	Chloroform	6.3	
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
107-06-2	1,2-Dichloroethane	1	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
75-27-4	Bromodichloromethane	3.7	
10061-01-5	cis-1,3-Dichloropropene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
127-18-4	Tetrachloroethene	1	U
124-48-1	Dibromochloromethane	0.78	J
108-90-7	Chlorobenzene	1	U
75-25-2	Bromoform	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
541-73-1	1,3-Dichlorobenzene	1	U

1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062EQBQ20249

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

Lab Code: PEL Case No. SAS No: SDG No.: 2204029

Matrix: WATER Lab Sample ID: 220402910 Lab File ID: 29-10R.D

Sample wt/vol: 5 Units: ML Date Received: 05/10/02

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 05/17/02 Time: 1512

PercentSolids: 0 decanted: Dilution Factor: 1

Extraction: PURGETRAP Station ID: Equipment Blank Method: 601/602

GPC Cleanup: (Y/N) N pH:

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

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
71-43-2	Benzene	1	U
1634-04-4	MTBE	1	U
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
511-39-00	p,m-Xylene	2	U
95-47-6	o-Xylene	1	U

1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062TBQ20249

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

Lab Code: PEL Case No. SAS No: SDG No.: 2204029

Matrix: WATER Lab Sample ID: 220402911 Lab File ID: 29-11.D

Sample wt/vol: 5 Units: ML Date Received: 05/10/02

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 05/17/02 Time: 0917

PercentSolids: 0 decanted: Dilution Factor: 1

Extraction: PURGETRAP Station ID: Trip Blank Method: 601/602

GPC Cleanup: (Y/N) N pH:

Column(1): RTX-502.2 ID: 0.53 (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	2	U
156-60-5	trans-1,2-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
107-06-2	1,2-Dichloroethane	1	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
75-27-4	Bromodichloromethane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
127-18-4	Tetrachloroethene	1	U
124-48-1	Dibromochloromethane	1	U
108-90-7	Chlorobenzene	1	U
75-25-2	Bromoform	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
541-73-1	1,3-Dichlorobenzene	1	U

1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062TBQ20249

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

Lab Code: PEL Case No. SAS No: SDG No.: 2204029

Matrix: WATER Lab Sample ID: 220402911 Lab File ID: 29-11.D

Sample wt/vol: 5 Units: ML Date Received: 05/10/02

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 05/17/02 Time: 0917

PercentSolids: 0 decanted: Dilution Factor: 1

Extraction: PURGETRAP Station ID: Trip Blank Method: 601/602

GPC Cleanup: (Y/N) N pH:

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

CONCENTRATION UNITS: UG/L

CAS NO.	ANALYTE	RESULT	Q
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
71-43-2	Benzene	1	U
1634-04-4	MTBE	1	U
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
511-39-00	p,m-Xylene	2	U
95-47-6	o-Xylene	1	U

QC Summary

1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 0517BLK21

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

Lab Code: PEL Case No. SAS No: SDG No.: 2204029

Matrix: WATER Lab Sample ID: 0517BLK21 Lab File ID: BLK21.D

Sample wt/vol: 5 Units: ML Date Received: 05/17/02

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 05/17/02 Time: 0836

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: PURGETRAP Station ID: QC Method: 601/602

GPC Cleanup : (Y/N) N pH:

Column(1): RTX-502.2 ID: 0.53 (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	2	U
156-60-5	trans-1,2-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
107-06-2	1,2-Dichloroethane	1	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
75-27-4	Bromodichloromethane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
127-18-4	Tetrachloroethene	1	U
124-48-1	Dibromochloromethane	1	U
108-90-7	Chlorobenzene	1	U
75-25-2	Bromoform	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
541-73-1	1,3-Dichlorobenzene	1	U

1

VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 0517BLK21

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

Lab Code: PEL Case No. SAS No: SDG No.: 2204029

Matrix: WATER Lab Sample ID: 0517BLK21 Lab File ID: BLK21.D

Sample wt/vol: 5 Units: ML Date Received: 05/17/02

Concentrated Extract Volume: 5 Date Extracted:

Level:(low/med) LOW Date Analyzed: 05/17/02 Time: 0836

PercentSolids: 0 decanted: Dilution Factor: 1

Extraction: PURGETRAP Station ID: QC Method: 601/602

GPC Cleanup: (Y/N) N pH:

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

CONCENTRATION UNITS: UG/L

CAS NO.	*ANALYTE*	*RESULT*	*Q*
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
71-43-2	Benzene	1	U
1634-04-4	MTBE	1	U
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
511-39-00	p,m-Xylene	2	U
95-47-6	o-Xylene	1	U

4

VOLATILE ORGANIC METHOD BLANK SUMMARY

EPA Sample No.: 0517BLK21

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

Lab Code: PEL Case No. SAS No: SDG No.: 2204029

Lab File ID: BLK21.D Lab Sample ID: 0517BLK21

Instrument ID: VGC2 Date Extracted:

Matrix: WATER Date Analyzed: 05/17/02

Level:(low/med) LOW Time Analyzed: 0836

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	0517LCS21	0517LCS21	LCS21.D	05/17/02	0750
2	062TBQ20249	220402911	29-11.D	05/17/02	0917
3	062CEF432N	220402901	29-1.D	05/17/02	1038
4	062CEF432NMS	220402902	29-2S.D	05/17/02	1129
5	062CEF432NSD	220402903	29-3D.D	05/17/02	1210
6	062CEF436N	220402904	29-4.D	05/17/02	1251
7	062CEF437N	220402905	29-5.D	05/17/02	1334
8	062EQBQ20249	220402910	29-10R.D	05/17/02	1512
9	062CEF4333N	220402907	29-7.D	05/17/02	1554
10	062CEF4338N	220402908	29-8.D	05/17/02	1635
11	062DUPQ20249	220402909	29-9.D	05/17/02	1716
12	062CEF439N	220402906	29-6.D	05/17/02	1757

COMMENTS:

2A

WATER VOLATILE ORGANIC SURROGATE RECOVERY

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

Lab Code : PEL Case No. _____ SAS No: _____ SDG NO.: 2204029

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

EPA Sample NO.	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	TOT OUT
0517BLK21	93.7	94.7					0
0517LCS21	93.7	92.7					0
062CEF432N	101.0	103.3					0
062CEF432NMS	98.7	93.0					0
062CEF432NSD	108.3	97.3					0
062CEF4333N	100.7	108.3					0
062CEF4338N	98.0	105.7					0
062CEF436N	106.0	100.3					0
062CEF437N	100.0	100.3					0
062CEF439N	108.7	105.0					0
062DUPQ20249	102.7	105.0					0
062EQBQ20249	90.7	97.3					0
062TBQ20249	92.0	90.3					0

		Control Limits
S1	= 4-Bromofluorobenzene	71 - 124
S2	= 1,4-Dichlorobutane	72 - 117

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

8A

VOLATILE ORGANIC INTERNAL STANDARD AREA SUMMARY

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

Lab Code : PEL Case No. SAS No: SDG No.: 2204029

Lab File ID (Standard): 30PPBR.D Date Analyzed: 5/16/2002

Instrument ID: VGC2 Time Analyzed: 16:29

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	6556499	12.84	1217117	14.71		
	UPPER LIMIT	13112998	13.34	2434234	15.21		
	LOWER LIMIT	3278249.5	12.34	608558.5	14.21		
	EPA SAMPLE NO.						
1	0517LCS21	6125010	12.80	1241806	14.67		
2	0517BLK21	6252553	12.82	1191986	14.68		
3	062TBQ20249	5667217	12.82	1140782	14.68		
4	062CEF432N	5766987	12.83	1169393	14.70		
5	062CEF432NMS	6478954	12.84	1240698	14.70		
6	062CEF432NSD	6149764	12.83	1143726	14.69		
7	062CEF436N	5999040	12.83	1119242	14.70		
8	062CEF437N	6267942	12.84	1154166	14.71		
9	062EQBQ20249	6751420	12.85	1184757	14.72		
10	062CEF4333N	6188678	12.85	1074235	14.72		
11	062CEF4338N	6284474	12.86	1095476	14.72		
12	062DUPQ20249	6438163	12.84	1132566	14.71		
13	062CEF439N	6205876	12.84	1123164	14.70		

IS1 = Bromochloromethane
IS2 = 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

8

VOLATILE ORGANIC ANALYTICAL SEQUENCE

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

Lab Code : PEL Case No. SAS No: SDG No.: 2204029

GC Column: RTX-502.2 ID: 0.53 (mm) Init. Calib. Date: 05/16/02

Instrument ID: VGC2

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

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 29.23 S2 : 28.75

	CLIENT SAMPLE NO	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #
1	ZZZZZZ	ZZZZZZ	05/16/02	0930		
2	STD23677	1PPB	05/16/02	1010	29.22	28.74
3	STD23695	2PPB	05/16/02	1050	29.23	28.75
4	STD23676	10PPB	05/16/02	1211	29.22	28.75
5	STD23697	40PPB	05/16/02	1427	29.24	28.75
6	STD23700	5PPB	05/16/02	1507	29.24	28.76
7	STD23678	20PPB	05/16/02	1548	29.24	28.76
8	STD23696	30PPB	05/16/02	1629	29.23	28.75
9	STD23699	50PPB	05/16/02	1709	29.23	28.74
10	STD23675	100PPB	05/16/02	1750	29.22	28.73
11	SSC23703	SEC23	05/16/02	1949	29.2	28.72
12	ZZZZZZ	ZZZZZZ	05/17/02	0618		
13	CCV23667	0517CCV22	05/17/02	0710	29.19	28.71
14	0517LCS21	0517LCS21	05/17/02	0750	29.2	28.72
15	0517BLK21	0517BLK21	05/17/02	0836	29.21	28.72
16	062TBQ20249	220402911	05/17/02	0917	29.21	28.73
17	ZZZZZZ	ZZZZZZ	05/17/02	0957		
18	062CEF432N	220402901	05/17/02	1038	29.23	28.75
19	062CEF432NMS	220402902	05/17/02	1129	29.22	28.73
20	062CEF432NSD	220402903	05/17/02	1210	29.22	28.73
21	062CEF436N	220402904	05/17/02	1251	29.23	28.74
22	062CEF437N	220402905	05/17/02	1334	29.24	28.76
23	CCV23668	0517CCV23	05/17/02	1416	29.25	28.76
24	062EQBQ20249	220402910	05/17/02	1512	29.25	28.76
25	062CEF4333N	220402907	05/17/02	1554	29.25	28.76
26	062CEF4338N	220402908	05/17/02	1635	29.25	28.77

QC LIMITS

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

S2 = 1,4-Dichlorobutane (+/- 0.2 MINUTES)

Column used to flag retention time values with an asterisk.

* Values outside of QC limits

8

VOLATILE ORGANIC ANALYTICAL SEQUENCE

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

Lab Code : PEL Case No. SAS No: SDG No.: 2204029

GC Column: RTX-502.2 ID: 0.53 (mm) Init. Calib. Date: 05/16/02

Instrument ID: VGC2

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

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 29.23 S2 : 28.75

	CLIENT SAMPLE NO	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #
27	062DUPQ20249	220402909	05/17/02	1716	29.24	28.76
28	062CEF439N	220402906	05/17/02	1757	29.23	28.75
29	ZZZZZZ	ZZZZZZ	05/17/02	1837		
30	ZZZZZZ	ZZZZZZ	05/17/02	1917		
31	ZZZZZZ	ZZZZZZ	05/17/02	1958		
32	ZZZZZZ	ZZZZZZ	05/17/02	2038		
33	CCV23669	0517CCV24	05/17/02	2118	29.21	28.73
34	ZZZZZZ	ZZZZZZ	05/17/02	2158		
35	ZZZZZZ	ZZZZZZ	05/17/02	2238		
36	ZZZZZZ	ZZZZZZ	05/17/02	2318		
37	ZZZZZZ	ZZZZZZ	05/17/02	2358		
38	ZZZZZZ	ZZZZZZ	05/18/02	0039		
39	ZZZZZZ	ZZZZZZ	05/18/02	0119		

			QC LIMITS
S1	=	4-Bromofluorobenzene	(+/- 0.2 MINUTES)
S2	=	1,4-Dichlorobutane	(+/- 0.2 MINUTES)

Column used to flag retention time values with an asterisk.

* Values outside of QC limits

3

VOLATILE ORGANIC LAB CONTROL SAMPLE RECOVERY

EPA Sample No.: 0517LCS21

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

Lab Code: PEL Case No. _____ SAS No: _____ SDG No.: 2204029

COMPOUND	SPIKE ADDED UG/L	LCS CONCENTRATION UG/L	LCS % REC #	QC LIMITS REC.
Dichlorodifluoromethane	10	8.4	84.0	52 - 156
Chloromethane	10	8	80.0	31 - 128
Vinyl chloride	10	10.6	106.0	46 - 149
Bromomethane	10	12.3	123.0	44 - 154
Chloroethane	10	10.4	104.0	50 - 153
Trichlorofluoromethane	10	13.5	135.0	65 - 152
1,1-Dichloroethene	10	11	110.0	75 - 142
Methylene chloride	10	11.4	114.0	76 - 138
trans-1,2-Dichloroethene	10	10.6	106.0	81 - 135
1,1-Dichloroethane	10	11	110.0	81 - 144
cis-1,2-Dichloroethene	10	10.5	105.0	81 - 144
Chloroform	10	10.7	107.0	91 - 136
1,1,1-Trichloroethane	10	11	110.0	81 - 141
Carbon tetrachloride	10	11	110.0	86 - 140
1,2-Dichloroethane	10	10.7	107.0	81 - 141
Trichloroethene	10	10.8	108.0	80 - 141
1,2-Dichloropropane	10	11.4	114.0	87 - 141
Bromodichloromethane	10	10.5	105.0	90 - 133
cis-1,3-Dichloropropene	10	11.3	113.0	97 - 135
trans-1,3-Dichloropropene	10	10.8	108.0	91 - 136
1,1,2-Trichloroethane	10	11.4	114.0	88 - 133
Tetrachloroethene	10	11.1	111.0	80 - 135
Dibromochloromethane	10	10.3	103.0	91 - 132
Chlorobenzene	10	11	110.0	80 - 140
Bromoform	10	9.9	99.0	78 - 140
1,1,2,2-Tetrachloroethane	10	10.7	107.0	94 - 135
1,3-Dichlorobenzene	10	11	110.0	83 - 151
1,4-Dichlorobenzene	10	11.2	112.0	83 - 142
1,2-Dichlorobenzene	10	11.4	114.0	74 - 157
Benzene	10	9.6	96.0	65 - 134
MTBE	10	11.2	112.0	80 - 135
Toluene	10	9.7	97.0	82 - 124

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS:

3

VOLATILE ORGANIC LAB CONTROL SAMPLE RECOVERY

EPA Sample No.: 0517LCS21

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

Lab Code: PEL Case No. _____ SAS No: _____ SDG No.: 2204029

COMPOUND	SPIKE ADDED UG/L	LCS CONCENTRATION UG/L	LCS % REC #	QC LIMITS REC.
Ethylbenzene	10	9.6	96.0	86 - 122
p,m-Xylene	20	19.4	97.0	88 - 124
o-Xylene	10	10	100.0	92 - 124

Spike Recovery: 0 out of 35 outside limits

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS:

230502 1209

Form III

3

VOLATILE ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Sample No.

062CEF432NMS

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

Lab Code: PEL Case No. SAS No: SDG No.: 2204029

COMPOUND	SPIKE ADDED UG/L	SAMPLE CONCENTRATION UG/L	MS CONCENTRATION UG/L	MS % REC #	QC LIMITS REC.
Dichlorodifluoromethane	10	0	7.6	76.0	40 - 151
Chloromethane	10	0	8.7	87.0	0 - 156
Vinyl chloride	10	0	9.1	91.0	62 - 146
Bromomethane	10	0	11.1	111.0	51 - 142
Chloroethane	10	0	10.1	101.0	40 - 146
Trichlorofluoromethane	10	0	11.1	111.0	66 - 149
1,1-Dichloroethene	10	0	11.1	111.0	62 - 143
Methylene chloride	10	0	11.4	114.0	76 - 125
trans-1,2-Dichloroethene	10	0	10.9	109.0	70 - 130
1,1-Dichloroethane	10	0	11.4	114.0	77 - 148
cis-1,2-Dichloroethene	10	0	10.6	106.0	80 - 135
Chloroform	10	0	10.9	109.0	77 - 137
1,1,1-Trichloroethane	10	0	11.1	111.0	78 - 141
Carbon tetrachloride	10	0	11.2	112.0	75 - 139
1,2-Dichloroethane	10	0	11.1	111.0	78 - 133
Trichloroethene	10	0	11.1	111.0	77 - 129
1,2-Dichloropropane	10	0	11.2	112.0	72 - 142
Bromodichloromethane	10	0	10.6	106.0	83 - 143
cis-1,3-Dichloropropene	10	0	11.2	112.0	86 - 140
trans-1,3-Dichloropropene	10	0	10.9	109.0	69 - 136
1,1,2-Trichloroethane	10	0	11.6	116.0	78 - 137
Tetrachloroethene	10	0	11	110.0	74 - 124
Dibromochloromethane	10	0	10.6	106.0	74 - 139
Chlorobenzene	10	0	11.3	113.0	72 - 135
Bromoform	10	0	10.6	106.0	87 - 135
1,1,2,2-Tetrachloroethane	10	0	11.7	117.0	86 - 147
1,3-Dichlorobenzene	10	0	11.7	117.0	64 - 145
1,4-Dichlorobenzene	10	0	11.7	117.0	72 - 145
1,2-Dichlorobenzene	10	0	12.3	123.0	58 - 145
Benzene	10	0.32	10.4	100.8	66 - 132

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS: _____

Form III

230502 1209

3

VOLATILE ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Sample No.

062CEF432NMS

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

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 2204029

COMPOUND	SPIKE ADDED UG/L	SAMPLE CONCENTRATION UG/L	MS CONCENTRATION UG/L	MS % REC #	QC LIMITS REC.
MTBE	10	0	12.9	129.0	81 - 129
Toluene	10	26.3	33.1	68.0 *	86 - 120
Ethylbenzene	10	20.5	28.1	76.0 *	87 - 120
p,m-Xylene	20	37.1	53.4	81.5 *	94 - 116
o-Xylene	10	25.9	33.7	78.0 *	93 - 122

Spike Recovery: 4 out of 35 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

230502 1209

3

VOLATILE ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Sample No.

062CEF432NSD

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

Lab Code : PEL Case No. SAS No: SDG No.: 2204029

COMPOUND	SPIKE ADDED UG/L	MSD CONCENTRATION UG/L	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Dichlorodifluoromethane	10	8	80.0	5.0	38	40 - 151
Chloromethane	10	12.4	124.0	35.1	38	0 - 156
Vinyl chloride	10	9.1	91.0	0.0	22	62 - 146
Bromomethane	10	12.2	122.0	9.4	25	51 - 142
Chloroethane	10	10.3	103.0	1.4	45	40 - 146
Trichlorofluoromethane	10	11.5	115.0	3.8	26	66 - 149
1,1-Dichloroethene	10	11	110.0	1.3	19	62 - 143
Methylene chloride	10	11.1	111.0	2.4	34	76 - 125
trans-1,2-Dichloroethene	10	10.6	106.0	2.4	28	70 - 130
1,1-Dichloroethane	10	11.2	112.0	1.7	27	77 - 148
cis-1,2-Dichloroethene	10	10.8	108.0	1.8	23	80 - 135
Chloroform	10	11	110.0	1.0	25	77 - 137
1,1,1-Trichloroethane	10	11.7	117.0	4.9	28	78 - 141
Carbon tetrachloride	10	11.3	113.0	0.8	23	75 - 139
1,2-Dichloroethane	10	10.7	107.0	3.0	28	78 - 133
Trichloroethene	10	11	110.0	0.7	23	77 - 129
1,2-Dichloropropane	10	11.4	114.0	1.5	23	72 - 142
Bromodichloromethane	10	10.8	108.0	1.8	25	83 - 143
cis-1,3-Dichloropropene	10	11.4	114.0	1.7	19	86 - 140
trans-1,3-Dichloropropene	10	10.7	107.0	1.5	18	69 - 136
1,1,2-Trichloroethane	10	11.3	113.0	2.0	21	78 - 137
Tetrachloroethene	10	11	110.0	0.3	22	74 - 124
Dibromochloromethane	10	10.7	107.0	0.9	34	74 - 139
Chlorobenzene	10	11.3	113.0	0.0	31	72 - 135
Bromoform	10	10.5	105.0	0.7	20	87 - 135
1,1,2,2-Tetrachloroethane	10	11.7	117.0	0.3	21	86 - 147
1,3-Dichlorobenzene	10	11.6	116.0	1.0	30	64 - 145
1,4-Dichlorobenzene	10	11.7	117.0	0.1	29	72 - 145
1,2-Dichlorobenzene	10	11.6	116.0	6.0	31	58 - 145
Benzene	10	10.6	102.8	2.2	20	66 - 132

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS: _____

_____

Form III

230502 1209

VOLATILE ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Sample No.

062CEF432NSD

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

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 2204029

COMPOUND	SPIKE ADDED UG/L	MSD CONCENTRATION UG/L	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
MTBE	10	13.3	133.0 *	2.8	24	81 - 129
Toluene	10	35.6	93.0	7.3	22	86 - 120
Ethylbenzene	10	30.1	96.0	7.0	23	87 - 120
p,m-Xylene	20	57.1	100.0	6.7	16	94 - 116
o-Xylene	10	36.3	104.0	7.3	28	93 - 122

RPD: 0 out of 35 outside limits

Spike Recovery: 1 out of 35 outside limits

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS: _____

Standards Data

VOLATILE ORGANIC INITIAL CALIBRATION DATA

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

Lab Code : PEL Case No. SAS No: SDG No.: 2204029

Instrument ID: VGC2 Calibration Date: 05/16/02

GC Column: RTX-502.2 ID: 0.53 (mm) Calibration Time: 1750

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

COMPOUND	RRF0.5	RRF1	RRF2	RRF5	RRF10
Dichlorodifluoromethane		0.345	0.285	0.676	0.531
Chloromethane		0.316	0.240	0.318	0.327
Vinyl chloride		0.414	0.436	0.752	0.581
Bromomethane		0.181	0.264	0.469	0.394
Chloroethane		0.682	0.664	1.032	0.911
Trichlorofluoromethane		0.569	0.512	0.761	0.728
1,1-Dichloroethene		1.213	1.119	1.514	1.327
Methylene chloride			1.613	1.882	1.511
trans-1,2-Dichloroethene		1.371	1.196	1.536	1.310
1,1-Dichloroethane		1.310	1.197	1.477	1.298
cis-1,2-Dichloroethene		1.341	1.209	1.430	1.251
Chloroform		1.811	1.602	1.837	1.625
1,1,1-Trichloroethane		1.536	1.442	1.599	1.414
Carbon tetrachloride		1.808	1.573	1.806	1.653
1,2-Dichloroethane		1.388	1.207	1.408	1.249
Trichloroethene		1.736	1.493	1.748	1.432
1,2-Dichloropropane		1.228	1.104	1.288	1.111
Bromodichloromethane		1.057	1.005	1.234	1.046
cis-1,3-Dichloropropene		1.078	1.058	1.247	1.085
trans-1,3-Dichloropropene		0.929	0.860	1.114	0.933
1,1,2-Trichloroethane		1.182	1.080	1.400	1.139
Tetrachloroethene		1.786	1.615	1.851	1.589
Dibromochloromethane		0.629	0.662	0.868	0.751
Chlorobenzene		0.556	0.518	0.650	0.581
Bromoform		0.355	0.377	0.541	0.432
1,1,2,2-Tetrachloroethane		0.759	0.760	1.005	0.756
1,3-Dichlorobenzene		0.741	0.696	0.876	0.694
1,4-Dichlorobenzene		0.768	0.734	0.946	0.757
1,2-Dichlorobenzene		0.675	0.648	0.846	0.654
Benzene		1.545	1.375	1.551	1.331
MTBE		0.376	0.413	0.436	0.361
Toluene		1.511	1.297	1.447	1.235
Ethylbenzene		1.313	1.191	1.319	1.116

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VOLATILE ORGANIC INITIAL CALIBRATION DATA

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

Lab Code : PEL Case No. SAS No: SDG No.: 2204029

Instrument ID: VGC2 Calibration Date: 05/16/02

GC Column: RTX-502.2 ID: 0.53 (mm) Calibration Time: 1750

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

COMPOUND	RRF0.5	RRF1	RRF2	RRF5	RRF10
p,m-Xylene		1.415	1.306	1.462	1.239
o-Xylene		1.194	1.087	1.216	1.032
4-Bromofluorobenzene(SURR)		1.294	1.111	1.217	1.115
1,4-Dichlorobutane(SURR)		0.804	0.719	0.845	0.734

VOLATILE ORGANIC INITIAL CALIBRATION DATA

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

Lab Code : PEL Case No. SAS No: SDG No.: 2204029

Instrument ID: VGC2 Calibration Date: 05/16/02

GC Column: RTX-502.2 ID: 0.53 (mm) Calibration Time: 1750

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

COMPOUND	RRF20	RRF30	RRF40	RRF50	RRF100
Dichlorodifluoromethane	0.593	0.605	0.567	0.571	
Chloromethane	0.265	0.243	0.290	0.242	
Vinyl chloride	0.621	0.579	0.555	0.532	
Bromomethane	0.475	0.474	0.421	0.436	
Chloroethane	0.952	0.873	0.900	0.798	
Trichlorofluoromethane	0.700	0.695	0.741	0.625	
1,1-Dichloroethene	1.353	1.326	1.300	1.117	
Methylene chloride	1.498	1.008	1.440	1.369	
trans-1,2-Dichloroethene	1.302	1.255	1.257	1.140	
1,1-Dichloroethane	1.308	1.243	1.281	1.156	
cis-1,2-Dichloroethene	1.253	1.164	1.199	1.112	
Chloroform	1.609	1.534	1.557	1.429	
1,1,1-Trichloroethane	1.357	1.332	1.382	1.186	
Carbon tetrachloride	1.589	1.566	1.584	1.385	
1,2-Dichloroethane	1.221	1.218	1.184	1.077	
Trichloroethene	1.468	1.406	1.386	1.262	
1,2-Dichloropropane	1.135	1.102	1.087	1.037	
Bromodichloromethane	1.135	1.047	1.064	0.991	
cis-1,3-Dichloropropene	1.133	1.034	1.107	0.981	
trans-1,3-Dichloropropene	0.977	0.946	0.958	0.873	
1,1,2-Trichloroethane	1.205	1.136	1.153	1.078	
Tetrachloroethene	1.612	1.505	1.532	1.376	
Dibromochloromethane	0.826	0.776	0.828	0.753	
Chlorobenzene	0.592	0.590	0.590	0.534	0.504
Bromoform	0.511	0.482	0.523	0.465	
1,1,2,2-Tetrachloroethane	0.824	0.771	0.835	0.727	
1,3-Dichlorobenzene	0.712	0.664	0.710	0.641	0.579
1,4-Dichlorobenzene	0.786	0.711	0.755	0.702	0.634
1,2-Dichlorobenzene	0.707	0.662	0.683	0.620	0.579
Benzene	1.471	1.426	1.449	1.381	1.317
MTBE	0.610	0.635	0.497	0.571	0.509
Toluene	1.359	1.315	1.342	1.274	1.220
Ethylbenzene	1.238	1.190	1.233	1.161	1.116

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VOLATILE ORGANIC INITIAL CALIBRATION DATA

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

Lab Code : PEL Case No. SAS No: SDG No.: 2204029

Instrument ID: VGC2 Calibration Date: 05/16/02

GC Column: RTX-502.2 ID: 0.53 (mm) Calibration Time: 1750

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

COMPOUND	RRF20	RRF30	RRF40	RRF50	RRF100
p,m-Xylene	1.385	1.326	1.369	1.294	1.234
o-Xylene	1.156	1.118	1.135	1.093	1.037
4-Bromofluorobenzene(SURR)	1.318	1.183	1.218	1.198	1.173
1,4-Dichlorobutane(SURR)	0.832	0.730	0.761	0.703	0.638

VOLATILE ORGANIC INITIAL CALIBRATION DATA

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

Lab Code : PEL Case No. SAS No: SDG No.: 2204029

Instrument ID: VGC2 Calibration Date: 05/16/02

GC Column: RTX-502.2 ID: 0.53 (mm) Calibration Time: 1750

COMPOUND	CURVE	COEFFICIENTS AO	COEFFICIENTS A1	%RSD OR R^2	
Dichlorodifluoromethane	AVRG		0.5216837867	25.9	<-
Chloromethane	AVRG		0.2799470283	13.2	
Vinyl chloride	AVRG		0.5586818080	19	
Bromomethane	AVRG		0.3893620122	28	<-
Chloroethane	AVRG		0.8513501276	15.1	
Trichlorofluoromethane	AVRG		0.666497883	13.3	
1,1-Dichloroethene	AVRG		1.2838214811	10.3	
Methylene chloride	AVRG		1.4741037381	17.9	
trans-1,2-Dichloroethene	AVRG		1.2959233725	9.3	
1,1-Dichloroethane	AVRG		1.2838423929	7.5	
cis-1,2-Dichloroethene	AVRG		1.244802354	8.1	
Chloroform	AVRG		1.6255633609	8.4	
1,1,1-Trichloroethane	AVRG		1.4058215907	9	
Carbon tetrachloride	AVRG		1.6203568645	8.5	
1,2-Dichloroethane	AVRG		1.2441011376	8.7	
Trichloroethene	AVRG		1.4915435268	11.4	
1,2-Dichloropropane	AVRG		1.1362914311	7.2	
Bromodichloromethane	AVRG		1.0723983320	7.3	
cis-1,3-Dichloropropene	AVRG		1.0905478667	7.2	
trans-1,3-Dichloropropene	AVRG		0.9487256368	8.2	
1,1,2-Trichloroethane	AVRG		1.1716647797	8.7	
Tetrachloroethene	AVRG		1.6082359752	9.4	
Dibromochloromethane	AVRG		0.7615917818	10.8	
Chlorobenzene	AVRG		0.5683332149	8	
Bromoform	AVRG		0.4608130014	14.8	
1,1,2,2-Tetrachloroethane	AVRG		0.8043947953	11	
1,3-Dichlorobenzene	AVRG		0.7015941445	11.5	
1,4-Dichlorobenzene	AVRG		0.7547617954	11.2	
1,2-Dichlorobenzene	AVRG		0.6750209548	11	
Benzene	AVRG		1.4274758751	6	
MTBE	AVRG		0.4898925904	20.5	<-
Toluene	AVRG		1.3334932377	7.2	
Ethylbenzene	AVRG		1.2086857223	6.2	

6

VOLATILE ORGANIC INITIAL CALIBRATION DATA

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

Lab Code : PEL Case No. SAS No: SDG No.: 2204029

Instrument ID: VGC2 Calibration Date: 05/16/02

GC Column: RTX-502.2 ID: 0.53 (mm) Calibration Time: 1750

COMPOUND	CURVE	COEFFICIENTS A0	COEFFICIENTS A1	%RSD OR R^2
p,m-Xylene	AVRG		1.3365277143	5.8
o-Xylene	AVRG		1.1187137984	5.7
4-Bromofluorobenzene(SURR)	AVRG		1.2174979267	6.6
1,4-Dichlorobutane(SURR)	AVRG		0.7510036241	8.3

Average Used: 11

VOLATILE ORGANIC INITIAL CALIBRATION DATA

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

Lab Code: PEL Case No. SAS No: SDG No.: 2204029

Instrument ID: VGC2 Calibration Date: 05/16/02

GC Column: RTX-502.2 ID: 0.53 (mm) Calibration Time: 1750

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

COMPOUND	RT1	RT2	RT3	RT4	RT5	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Dichlorodifluoromethane	4.787	4.743	4.733	4.733	4.733			
Chloromethane	5.253	5.253	5.257	5.257	5.260			
Vinyl chloride		5.537	5.533	5.540	5.553			
Bromomethane		6.543	6.547	6.543	6.547			
Chloroethane	6.733	6.723	6.740	6.740	6.740			
Trichlorofluoromethane	7.233	7.220	7.223	7.227	7.217			
1,1-Dichloroethene	8.500	8.503	8.517	8.533	8.517			
Methylene chloride	9.380		9.397	9.500	9.393			
trans-1,2-Dichloroethene	10.003	10.007	10.020	10.030	10.023			
1,1-Dichloroethane	10.860	10.860	10.873	10.883	10.883			
cis-1,2-Dichloroethene	12.127	12.130	12.140	12.153	12.143			
Chloroform	12.457	12.460	12.470	12.483	12.473			
1,1,1-Trichloroethane	13.333	13.337	13.353	13.370	13.353			
Carbon tetrachloride	13.920	13.923	13.933	13.947	13.940			
1,2-Dichloroethane	14.190	14.193	14.207	14.217	14.207			
Trichloroethene	15.633	15.633	15.653	15.663	15.647			
1,2-Dichloropropane	16.043	16.050	16.060	16.077	16.063			
Bromodichloromethane	16.647	16.653	16.663	16.677	16.667			
cis-1,3-Dichloropropene	18.147	18.157	18.167	18.183	18.167			
trans-1,3-Dichloropropene	19.810	19.823	19.837	19.850	19.833			
1,1,2-Trichloroethane	20.430	20.437	20.453	20.477	20.457			
Tetrachloroethene	21.827	21.847	21.867	21.887	21.867			
Dibromochloromethane	22.667	22.677	22.700	22.717	22.697			
Chlorobenzene	25.170	25.187	25.197	25.213	25.197			
Bromoform	28.437	28.447	28.457	28.470	28.450			
1,1,2,2-Tetrachloroethane	28.970	28.987	28.990	29.003	28.990			
1,3-Dichlorobenzene	31.483	31.490	31.493	31.503	31.490			
1,4-Dichlorobenzene	31.653	31.660	31.663	31.673	31.660			
1,2-Dichlorobenzene	32.233	32.240	32.243	32.253	32.243			
Benzene	14.253	14.257	14.267	14.280	14.270			
MTBE		9.703	9.680	9.700	9.680			
Toluene	19.237	19.247	19.260	19.277	19.263			
Ethylbenzene	25.353	25.367	25.373	25.397	25.373			
p,m-Xylene	25.643	25.657	25.670	25.683	25.667			
o-Xylene	27.200	27.210	27.223	27.240	27.220			

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VOLATILE ORGANIC INITIAL CALIBRATION DATA

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

Lab Code : PEL Case No. SAS No: SDG No.: 2204029

Instrument ID: VGC2 Calibration Date: 05/16/02

GC Column: RTX-502.2 ID: 0.53 (mm) Calibration Time: 1750

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

COMPOUND	RT1	RT2	RT3	RT4	RT5	MEAN RT	RT WINDOW FROM	RT WINDOW TO
4-Bromofluorobenzene(SURR)	29.210	29.220	29.230	29.243	29.223			
1,4-Dichlorobutane(SURR)	28.733	28.737	28.747	28.763	28.750			

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VOLATILE ORGANIC INITIAL CALIBRATION DATA

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

Lab Code : PEL Case No. SAS No: SDG No.: 2204029

Instrument ID: VGC2 Calibration Date: 05/16/02

GC Column: RTX-502.2 ID: 0.53 (mm) Calibration Time: 1750

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

COMPOUND	RT6	RT7	RT8	RT9	RT10	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Dichlorodifluoromethane	4.730	4.723	4.730	4.727		4.732	4.517	4.917
Chloromethane	5.263	5.260	5.257	5.253		5.258	5.043	5.443
Vinyl chloride	5.560	5.553	5.543	5.543		5.545	5.337	5.737
Bromomethane	6.547	6.543	6.530	6.527		6.541	6.297	6.697
Chloroethane	6.750	6.727	6.727	6.723		6.734	6.503	6.903
Trichlorofluoromethane	7.233	7.230	7.230	7.220		7.225	7.013	7.413
1,1-Dichloroethene	8.530	8.530	8.517	8.513		8.520	8.310	8.710
Methylene chloride	9.533	9.517	9.400	9.513		9.465	9.183	9.583
trans-1,2-Dichloroethene	10.033	10.020	10.023	10.017		10.022	9.803	10.203
1,1-Dichloroethane	10.890	10.877	10.883	10.870		10.877	10.663	11.063
cis-1,2-Dichloroethene	12.153	12.147	12.143	12.140		12.144	11.927	12.327
Chloroform	12.487	12.477	12.470	12.473		12.474	12.260	12.660
1,1,1-Trichloroethane	13.367	13.363	13.357	13.353		13.357	13.143	13.543
Carbon tetrachloride	13.957	13.940	13.947	13.937		13.941	13.723	14.123
1,2-Dichloroethane	14.223	14.217	14.210	14.210		14.211	13.997	14.397
Trichloroethene	15.663	15.657	15.653	15.647		15.652	15.433	15.833
1,2-Dichloropropane	16.073	16.070	16.067	16.057		16.065	15.847	16.247
Bromodichloromethane	16.677	16.670	16.670	16.667		16.668	16.453	16.853
cis-1,3-Dichloropropene	18.193	18.173	18.180	18.167		18.173	17.953	18.353
trans-1,3-Dichloropropene	19.857	19.840	19.850	19.830		19.840	19.617	20.017
1,1,2-Trichloroethane	20.473	20.457	20.463	20.450		20.458	20.230	20.630
Tetrachloroethene	21.873	21.860	21.867	21.857		21.866	21.643	22.043
Dibromochloromethane	22.720	22.697	22.703	22.683		22.699	22.480	22.880
Chlorobenzene	25.210	25.197	25.203	25.190	25.177	25.197	24.977	25.377
Bromoform	28.473	28.457	28.460	28.447		28.458	28.240	28.640
1,1,2,2-Tetrachloroethane	29.007	28.990	28.993	28.987		28.993	28.773	29.173
1,3-Dichlorobenzene	31.500	31.493	31.497	31.490	31.483	31.493	31.283	31.683
1,4-Dichlorobenzene	31.670	31.660	31.663	31.660	31.653	31.662	31.453	31.853
1,2-Dichlorobenzene	32.253	32.243	32.247	32.240	32.237	32.244	32.037	32.437
Benzene	14.287	14.273	14.277	14.267	14.257	14.271	14.057	14.457
MTBE	9.697	9.687	9.683	9.687	9.687	9.689	9.487	9.887
Toluene	19.287	19.270	19.273	19.260	19.250	19.265	19.050	19.450
Ethylbenzene	25.400	25.377	25.387	25.377	25.367	25.380	25.167	25.567
p,m-Xylene	25.690	25.670	25.680	25.667	25.653	25.671	25.453	25.853
o-Xylene	27.237	27.223	27.230	27.220	27.210	27.224	27.010	27.410

6

VOLATILE ORGANIC INITIAL CALIBRATION DATA

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

Lab Code: PEL Case No. SAS No: SDG No.: 2204029

Instrument ID: VGC2 Calibration Date: 05/16/02

GC Column: RTX-502.2 ID: 0.53 (mm) Calibration Time: 1750

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

COMPOUND	RT6	RT7	RT8	RT9	RT10	MEAN RT	RT WINDOW FROM	RT WINDOW TO
4-Bromofluorobenzene(SURR)	29.243	29.233	29.237	29.230	29.217	29.229	29.017	29.417
1,4-Dichlorobutane(SURR)	28.763	28.750	28.753	28.743	28.733	28.747	28.533	28.933

7SSC

VOLATILE ORGANIC SECONDARY SOURCE CALIBRATION DATA

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

Lab Code : PEL Case No. SAS No: SDG No.: 2204029

Instrument ID: VGC2 CalibrationDate: 05/16/02 Time: 1949

Lab File ID: SEC23.D Init. Calib. Date: 05/16/02

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

COMPOUND	RRF	RRF0	%D	
Dichlorodifluoromethane	0.52168	0.4134	20.8	<-
Chloromethane	0.27995	0.256	8.6	
Vinyl chloride	0.55868	0.5276	5.6	
Bromomethane	0.38936	0.447	14.8	
Chloroethane	0.85135	0.7967	6.4	
Trichlorofluoromethane	0.6665	0.7311	9.7	
1,1-Dichloroethene	1.28382	1.275	0.7	
Methylene chloride	1.4741	1.517	2.9	
trans-1,2-Dichloroethene	1.29592	1.233	4.9	
1,1-Dichloroethane	1.28384	1.318	2.7	
cis-1,2-Dichloroethene	1.2448	1.186	4.7	
Chloroform	1.62556	1.568	3.5	
1,1,1-Trichloroethane	1.40582	1.405	0.1	
Carbon tetrachloride	1.62036	1.588	2.0	
1,2-Dichloroethane	1.2441	1.262	1.4	
Trichloroethene	1.49154	1.448	2.9	
1,2-Dichloropropane	1.13629	1.181	3.9	
Bromodichloromethane	1.0724	1.106	3.1	
cis-1,3-Dichloropropene	1.09055	1.153	5.7	
trans-1,3-Dichloropropene	0.94872	0.9565	0.8	
1,1,2-Trichloroethane	1.17166	1.19	1.6	
Tetrachloroethene	1.60824	1.553	3.4	
Dibromochloromethane	0.76159	0.8023	5.3	
Chlorobenzene	0.56833	0.6204	9.2	
Bromoform	0.46081	0.4824	4.7	
1,1,2,2-Tetrachloroethane	0.80439	0.8137	1.2	
1,3-Dichlorobenzene	0.70159	0.7556	7.7	
1,4-Dichlorobenzene	0.75476	0.8227	9.0	
1,2-Dichlorobenzene	0.67502	0.7465	10.6	
Benzene	1.42747	1.447	1.4	
MTBE	0.48989	0.5845	19.3	<-
Toluene	1.33349	1.36	2.0	
Ethylbenzene	1.20868	1.218	0.8	
p,m-Xylene	1.33653	1.372	2.7	
o-Xylene	1.11872	1.184	5.8	

7SSC

VOLATILE ORGANIC SECONDARY SOURCE CALIBRATION DATA

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

Lab Code : PEL Case No. SAS No: SDG No.: 2204029

Instrument ID: VGC2 CalibrationDate: 05/16/02 Time: 1949

Lab File ID: SEC23.D Init. Calib. Date: 05/16/02

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

COMPOUND	$\overline{RRF}$	RRF0	%D
4-Bromofluorobenzene	1.2175	1.183	2.8
1,4-Dichlorobutane	0.751	0.7044	6.2
		Average Used:	5.4

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VOLATILE ORGANIC CONTINUING CALIBRATION DATA

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

Lab Code : PEL Case No. SAS No: SDG No.: 2204029

Instrument ID: VGC2 CalibrationDate: 05/17/02 Time: 0710

Lab File ID: CCV22.D Init. Calib. Date: 05/16/02

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

COMPOUND	RRF	RRF30	%D
Dichlorodifluoromethane	0.52168	0.5964	14.3
Chloromethane	0.27995	0.3084	10.2
Vinyl chloride	0.55868	0.632	13.1
Bromomethane	0.38936	0.4474	14.9
Chloroethane	0.85135	0.9146	7.4
Trichlorofluoromethane	0.6665	0.9047	35.7
1,1-Dichloroethene	1.28382	1.272	0.9
Methylene chloride	1.4741	1.456	1.2
trans-1,2-Dichloroethene	1.29592	1.284	0.9
1,1-Dichloroethane	1.28384	1.244	3.1
cis-1,2-Dichloroethene	1.2448	1.195	4.0
Chloroform	1.62556	1.544	5.0
1,1,1-Trichloroethane	1.40582	1.326	5.7
Carbon tetrachloride	1.62036	1.534	5.3
1,2-Dichloroethane	1.2441	1.149	7.6
Trichloroethene	1.49154	1.397	6.3
1,2-Dichloropropane	1.13629	1.091	4.0
Bromodichloromethane	1.0724	1.035	3.5
cis-1,3-Dichloropropene	1.09055	1.025	6.0
trans-1,3-Dichloropropene	0.94872	0.913	3.8
1,1,2-Trichloroethane	1.17166	1.115	4.8
Tetrachloroethene	1.60824	1.533	4.7
Dibromochloromethane	0.76159	0.7758	1.9
Chlorobenzene	0.56833	0.5746	1.1
Bromoform	0.46081	0.457	0.8
1,1,2,2-Tetrachloroethane	0.80439	0.724	10.0
1,3-Dichlorobenzene	0.70159	0.6942	1.1
1,4-Dichlorobenzene	0.75476	0.7449	1.3
1,2-Dichlorobenzene	0.67502	0.6707	0.6
Benzene	1.42747	1.386	2.9
MTBE	0.48989	0.5257	7.3
Toluene	1.33349	1.277	4.2
Ethylbenzene	1.20868	1.16	4.0
p,m-Xylene	1.33653	1.288	3.6
o-Xylene	1.11872	1.077	3.7

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VOLATILE ORGANIC CONTINUING CALIBRATION DATA

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

Lab Code : PEL Case No. SAS No: SDG No.: 2204029

Instrument ID: VGC2 CalibrationDate: 05/17/02 Time: 0710

Lab File ID: CCV22.D Init. Calib. Date: 05/16/02

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

COMPOUND	$\overline{RRF}$	RRF30	%D
4-Bromofluorobenzene	1.2175	1.155	5.1
1,4-Dichlorobutane	0.751	0.7079	5.7
		Average Used:	5.8

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VOLATILE ORGANIC CONTINUING CALIBRATION DATA

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

Lab Code : PEL Case No. SAS No: SDG No.: 2204029

Instrument ID: VGC2 CalibrationDate: 05/17/02 Time: 1416

Lab File ID: CCV23.D Init. Calib. Date: 05/16/02

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

COMPOUND	$\overline{RRF}$	RRF30	%D
Dichlorodifluoromethane	0.52168	0.5695	9.2
Chloromethane	0.27995	0.3163	13.0
Vinyl chloride	0.55868	0.5727	2.5
Bromomethane	0.38936	0.425	9.2
Chloroethane	0.85135	0.868	2.0
Trichlorofluoromethane	0.6665	0.6762	1.5
1,1-Dichloroethene	1.28382	1.238	3.6
Methylene chloride	1.4741	1.413	4.1
trans-1,2-Dichloroethene	1.29592	1.203	7.2
1,1-Dichloroethane	1.28384	1.217	5.2
cis-1,2-Dichloroethene	1.2448	1.146	7.9
Chloroform	1.62556	1.48	9.0
1,1,1-Trichloroethane	1.40582	1.246	11.4
Carbon tetrachloride	1.62036	1.515	6.5
1,2-Dichloroethane	1.2441	1.157	7.0
Trichloroethene	1.49154	1.368	8.3
1,2-Dichloropropane	1.13629	1.092	3.9
Bromodichloromethane	1.0724	1.023	4.6
cis-1,3-Dichloropropene	1.09055	0.9986	8.4
trans-1,3-Dichloropropene	0.94872	0.9054	4.6
1,1,2-Trichloroethane	1.17166	1.129	3.6
Tetrachloroethene	1.60824	1.497	6.9
Dibromochloromethane	0.76159	0.7658	0.6
Chlorobenzene	0.56833	0.5478	3.6
Bromoform	0.46081	0.4842	5.1
1,1,2,2-Tetrachloroethane	0.80439	0.7969	0.9
1,3-Dichlorobenzene	0.70159	0.6781	3.3
1,4-Dichlorobenzene	0.75476	0.741	1.8
1,2-Dichlorobenzene	0.67502	0.6789	0.6
Benzene	1.42747	1.346	5.7
MTBE	0.48989	0.545	11.2
Toluene	1.33349	1.259	5.6
Ethylbenzene	1.20868	1.137	5.9
p,m-Xylene	1.33653	1.273	4.8
o-Xylene	1.11872	1.064	4.9

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VOLATILE ORGANIC CONTINUING CALIBRATION DATA

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

Lab Code : PEL Case No. SAS No: SDG No.: 2204029

Instrument ID: VGC2 CalibrationDate: 05/17/02 Time: 1416

Lab File ID: CCV23.D Init. Calib. Date: 05/16/02

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

COMPOUND	$\overline{RRF}$	RRF30	%D
4-Bromofluorobenzene	1.2175	1.18	3.1
1,4-Dichlorobutane	0.751	0.7351	2.1

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VOLATILE ORGANIC CONTINUING CALIBRATION DATA

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

Lab Code : PEL Case No. SAS No: SDG No.: 2204029

Instrument ID: VGC2 CalibrationDate: 05/17/02 Time: 2118

Lab File ID: CCV24.D Init. Calib. Date: 05/16/02

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

COMPOUND	RRF	RRF30	%D	
Dichlorodifluoromethane	0.52168	0.5096	2.3	
Chloromethane	0.27995	0.3673	31.2	<-
Vinyl chloride	0.55868	0.5519	1.2	
Bromomethane	0.38936	0.4382	12.5	
Chloroethane	0.85135	0.7865	7.6	
Trichlorofluoromethane	0.6665	0.6362	4.5	
1,1-Dichloroethene	1.28382	1.111	13.5	
Methylene chloride	1.4741	1.35	8.4	
trans-1,2-Dichloroethene	1.29592	1.129	12.9	
1,1-Dichloroethane	1.28384	1.143	11.0	
cis-1,2-Dichloroethene	1.2448	1.123	9.8	
Chloroform	1.62556	1.445	11.1	
1,1,1-Trichloroethane	1.40582	1.167	17.0	<-
Carbon tetrachloride	1.62036	1.385	14.5	
1,2-Dichloroethane	1.2441	1.133	8.9	
Trichloroethene	1.49154	1.258	15.7	<-
1,2-Dichloropropane	1.13629	1.032	9.2	
Bromodichloromethane	1.0724	1.004	6.4	
cis-1,3-Dichloropropene	1.09055	0.985	9.7	
trans-1,3-Dichloropropene	0.94872	0.8505	10.4	
1,1,2-Trichloroethane	1.17166	1.095	6.5	
Tetrachloroethene	1.60824	1.306	18.8	<-
Dibromochloromethane	0.76159	0.7588	0.4	
Chlorobenzene	0.56833	0.5253	7.6	
Bromoform	0.46081	0.4626	0.4	
1,1,2,2-Tetrachloroethane	0.80439	0.7473	7.1	
1,3-Dichlorobenzene	0.70159	0.6623	5.6	
1,4-Dichlorobenzene	0.75476	0.7113	5.8	
1,2-Dichlorobenzene	0.67502	0.6453	4.4	
Benzene	1.42747	1.382	3.2	
MTBE	0.48989	0.5482	11.9	
Toluene	1.33349	1.271	4.7	
Ethylbenzene	1.20868	1.15	4.9	
p,m-Xylene	1.33653	1.279	4.3	
o-Xylene	1.11872	1.102	1.5	

7

VOLATILE ORGANIC CONTINUING CALIBRATION DATA

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

Lab Code : PEL Case No. SAS No: SDG No.: 2204029

Instrument ID: VGC2 CalibrationDate: 05/17/02 Time: 2118

Lab File ID: CCV24.D Init. Calib. Date: 05/16/02

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

COMPOUND	$\overline{RRF}$	RRF30	%D
4-Bromofluorobenzene	1.2175	1.206	0.9
1,4-Dichlorobutane	0.751	0.6863	8.6
		Average Used:	8.5

HPLC PAH ORGANICS

METHOD 610

230502.1209

CASE NARRATIVE
HPLC SEMIVOLATILE ORGANICS

PEL Lab Reference No./SDG: 2204029

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 610

IV. PREPARATION

Water samples were prepared by EPA 610 for 610 semi-volatiles analysis.

V. ANALYSIS

A. Calibration:

All acceptance criteria were met.

B. Blanks:

All acceptance criteria were met with the exception of:
Blank 514BLK was analyzed with the water samples extracted on 05/14/02. The following analyte(s) were detected above RL: Phenanthrene at 0.28 UG/L. This blank was re-analyzed with similar results, however only the original analysis is included. The client was notified of the blank contamination and data is reported per client request. Samples coded accordingly.

C. Surrogates:

All acceptance criteria were met.

D. Spikes:

1. **Laboratory Control Spikes (LCS)**

All acceptance criteria were met.

CASE NARRATIVE
HPLC SEMIVOLATILE ORGANICS

PEL Lab Reference No./SDG: 2204029

Client: CH2M Hill

Spikes Continued:

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 - 062CEF432NMS was analyzed with the water samples extracted on 05/14/02. The following analyte(s) were recovered below criteria: Naphthalene at 41.4 % with criteria of (45-78). Since all internal standard and surrogate criteria were met, no further action was taken.

E. Internal Standards:

This method does not require the use of internal standards.

F. Samples:

Sample analysis proceeded normally.
Analytes were detected in Equipment Blank 062EQBQ20249. The following analyte(s) were detected above RL: 2-Methylnaphthalene at 0.72 UG/L, Naphthalene at 0.35 UG/L. This sample was re-analyzed with similar results, however only the original analysis is included.
Analysis indicates that samples 062DUPQ20249 is the duplicate sample of sample 062CEF436N.
Project specific Reporting Limits were used per client request.

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: 5-21-02

PAH ORGANIC CROSS REFERENCE TABLE

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

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 2204029

Method: 610

EPA Sample No	Lab Sample ID
062CEF432N	220402901
062CEF436N	220402904
062CEF437N	220402905
062CEF439N	220402906
062CEF4333N	220402907
062CEF4338N	220402908
062DUPQ20249	220402909
062EQBQ20249	220402910

230502 1209

Sample Data

1

PAH ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062CEF432N

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

Lab Code : PEL Case No. SAS No: SDG No.: 2204029

Matrix: WATER Lab Sample ID: 220402901 Lab File ID: 29-1.D

Sample wt/vol: 920 Units: ML Date Received: 05/10/02

Concentrated Extract Volume: 1 Date Extracted: 05/14/02

Level:(low/med) LOW Date Analyzed: 05/14/02 Time: 2120

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: SEPF Station ID: CEF-043-2N Method: 610

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	3.8	
208-96-8	Acenaphthylene	3.6	
90-12-0	1-Methylnaphthalene	3.7	
91-57-6	2-Methylnaphthalene	5.7	
83-32-9	Acenaphthene	0.22	U
86-73-7	Fluorene	0.55	
85-01-8	Phenanthrene	0.44	B
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

PAH ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062CEF436N

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

Lab Code: PEL Case No. SAS No: SDG No.: 2204029

Matrix: WATER Lab Sample ID: 220402904 Lab File ID: 29-4.D

Sample wt/vol: 950 Units: ML Date Received: 05/10/02

Concentrated Extract Volume: 1 Date Extracted: 05/14/02

Level:(low/med) LOW Date Analyzed: 05/14/02 Time: 2303

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: SEPF Station ID: CEF-043-6N Method: 610

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	1.1	
208-96-8	Acenaphthylene	0.24	
90-12-0	1-Methylnaphthalene	0.88	
91-57-6	2-Methylnaphthalene	1.9	
83-32-9	Acenaphthene	0.21	U
86-73-7	Fluorene	0.28	
85-01-8	Phenanthrene	0.35	B
120-12-7	Anthracene	0.21	U
206-44-0	Fluoranthene	0.21	U
129-00-0	Pyrene	0.21	U
56-55-3	Benzo(a)anthracene	0.21	U
218-01-9	Chrysene	0.21	U
205-99-2	Benzo(b)fluoranthene	0.21	U
207-08-9	Benzo(k)fluoranthene	0.21	U
50-32-8	Benzo(a)pyrene	0.21	U
53-70-3	Dibenz(a,h)anthracene	0.21	U
191-24-2	Benzo(g,h,i)perylene	0.21	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.21	U

1

PAH ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062CEF437N

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

Lab Code: PEL Case No. SAS No: SDG No.: 2204029

Matrix: WATER Lab Sample ID: 220402905 Lab File ID: 29-5.D

Sample wt/vol: 952 Units: ML Date Received: 05/10/02

Concentrated Extract Volume: 1 Date Extracted: 05/14/02

Level:(low/med) LOW Date Analyzed: 05/15/02 Time: 0047

PercentSolids: 0 decanted: Dilution Factor: 1

Extraction: SEPF Station ID: CEF-043-7N Method: 610

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

1

PAH ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062CEF439N

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

Lab Code: PEL Case No. SAS No: SDG No.: 2204029

Matrix: WATER Lab Sample ID: 220402906 Lab File ID: 29-6.D

Sample wt/vol: 935 Units: ML Date Received: 05/10/02

Concentrated Extract Volume: 1 Date Extracted: 05/14/02

Level:(low/med) LOW Date Analyzed: 05/15/02 Time: 0122

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: SEPF Station ID: CEF-043-9N Method: 610

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	30	
208-96-8	Acenaphthylene	1.2	
90-12-0	1-Methylnaphthalene	7.7	
91-57-6	2-Methylnaphthalene	9.7	
83-32-9	Acenaphthene	0.21	U
86-73-7	Fluorene	0.33	
85-01-8	Phenanthrene	0.36	B
120-12-7	Anthracene	0.21	U
206-44-0	Fluoranthene	0.21	U
129-00-0	Pyrene	0.21	U
56-55-3	Benzo(a)anthracene	0.21	U
218-01-9	Chrysene	0.21	U
205-99-2	Benzo(b)fluoranthene	0.21	U
207-08-9	Benzo(k)fluoranthene	0.21	U
50-32-8	Benzo(a)pyrene	0.21	U
53-70-3	Dibenz(a,h)anthracene	0.21	U
191-24-2	Benzo(g,h,i)perylene	0.21	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.21	U

1

PAH ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062CEF4333N

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

Lab Code: PEL Case No. SAS No: SDG No.: 2204029

Matrix: WATER Lab Sample ID: 220402907 Lab File ID: 29-7.D

Sample wt/vol: 948 Units: ML Date Received: 05/10/02

Concentrated Extract Volume: 1 Date Extracted: 05/14/02

Level:(low/med) LOW Date Analyzed: 05/15/02 Time: 0156

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: SEPF Station ID: CEF-043-33N Method: 610

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	J
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

1

PAH ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062CEF4338N

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

Lab Code: PEL Case No. SAS No: SDG No.: 2204029

Matrix: WATER Lab Sample ID: 220402908 Lab File ID: 29-8.D

Sample wt/vol: 950 Units: ML Date Received: 05/10/02

Concentrated Extract Volume: 1 Date Extracted: 05/14/02

Level:(low/med) LOW Date Analyzed: 05/15/02 Time: 0231

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: SEPF Station ID: CEF-043-38N Method: 610

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

1

PAH ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062DUPQ20249

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

Lab Code: PEL Case No. SAS No: SDG No.: 2204029

Matrix: WATER Lab Sample ID: 220402909 Lab File ID: 29-9.D

Sample wt/vol: 954 Units: ML Date Received: 05/10/02

Concentrated Extract Volume: 1 Date Extracted: 05/14/02

Level:(low/med) LOW Date Analyzed: 05/15/02 Time: 0305

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: SEPF Station ID: Duplicate Method: 610

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	1.4	
208-96-8	Acenaphthylene	0.47	
90-12-0	1-Methylnaphthalene	1.6	
91-57-6	2-Methylnaphthalene	2.1	
83-32-9	Acenaphthene	0.21	U
86-73-7	Fluorene	0.22	
85-01-8	Phenanthrene	0.21	U
120-12-7	Anthracene	0.21	U
206-44-0	Fluoranthene	0.21	U
129-00-0	Pyrene	0.21	U
56-55-3	Benzo(a)anthracene	0.21	U
218-01-9	Chrysene	0.21	U
205-99-2	Benzo(b)fluoranthene	0.21	U
207-08-9	Benzo(k)fluoranthene	0.21	U
50-32-8	Benzo(a)pyrene	0.21	U
53-70-3	Dibenz(a,h)anthracene	0.21	U
191-24-2	Benzo(g,h,i)perylene	0.21	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.21	U

1

PAH ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062EQBQ20249

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

Lab Code: PEL Case No. SAS No: SDG No.: 2204029

Matrix: WATER Lab Sample ID: 220402910 Lab File ID: 29-10.D

Sample wt/vol: 900 Units: ML Date Received: 05/10/02

Concentrated Extract Volume: 1 Date Extracted: 05/14/02

Level:(low/med) LOW Date Analyzed: 05/15/02 Time: 0340

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: SEPF Station ID: Equipment Blank Method: 610

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	0.35	
208-96-8	Acenaphthylene	0.22	U
90-12-0	1-Methylnaphthalene	0.22	U
91-57-6	2-Methylnaphthalene	0.72	
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

QC Summary

1

PAH ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 514BLK

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

Lab Code: PEL Case No. SAS No: SDG No.: 2204029

Matrix: WATER Lab Sample ID: 69113 Lab File ID: 514BLK.D

Sample wt/vol: 1000 Units: ML Date Received: 05/14/02

Concentrated Extract Volume: 1 Date Extracted: 05/14/02

Level:(low/med) LOW Date Analyzed: 05/15/02 Time: 0806

PercentSolids: 0 decanted: Dilution Factor: 1

Extraction: SEPF Station ID: QC Method: 610

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	0.28	
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

4

PAH ORGANIC METHOD BLANK SUMMARY

EPA Sample No.: 514BLK

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

Lab Code: PEL Case No. SAS No: SDG No.: 2204029

Lab File ID: 514BLK.D Lab Sample ID: 69113

Instrument ID: SLC02 Date Extracted: 05/14/02

Matrix: WATER Date Analyzed: 05/15/02

Level:(low/med) LOW Time Analyzed: 0806

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	514LCS	69114	514LCS.D	05/14/02	1827
2	062CEF432N	220402901	29-1.D	05/14/02	2120
3	062CEF432NMS	220402902	29-2MS.D	05/14/02	2154
4	062CEF432NSD	220402903	29-3MSD.D	05/14/02	2229
5	062CEF436N	220402904	29-4.D	05/14/02	2303
6	062CEF437N	220402905	29-5.D	05/15/02	0047
7	062CEF439N	220402906	29-6.D	05/15/02	0122
8	062CEF4333N	220402907	29-7.D	05/15/02	0156
9	062CEF4338N	220402908	29-8.D	05/15/02	0231
10	062DUPQ20249	220402909	29-9.D	05/15/02	0305
11	062EQBQ20249	220402910	29-10.D	05/15/02	0340

COMMENTS:

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Form IV

2A

WATER PAH ORGANIC SURROGATE RECOVERY

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

Lab Code : PEL Case No. _____ SAS No: _____ SDG NO.: 2204029

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

EPA Sample NO.	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	TOT OUT
062CEF432N	85.7						0
062CEF432NMS	82.1						0
062CEF432NSD	83.8						0
062CEF4333N	83.9						0
062CEF4338N	87.1						0
062CEF436N	80.5						0
062CEF437N	81.0						0
062CEF439N	79.9						0
062DUPQ20249	87.1						0
062EQBQ20249	49.1						0
514BLK	79.5						0
514LCS	89.5						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

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8

PAH ORGANIC ANALYTICAL SEQUENCE

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

Lab Code: PEL Case No. SAS No: SDG No.: 2204029

GC Column: Vydac 201TP5 ID: 4.6 (mm) Init. Calib. Date: 04/22/02

Instrument ID: SLC02

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

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 18.55 S2 :

	CLIENT SAMPLE NO	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #
1	STD21537	SV4689	04/22/02	1205	18.55	
2	STD21538	SV4687	04/22/02	1239	18.55	
3	STD21539	SV4686	04/22/02	1314	18.56	
4	STD21540	SV4685	04/22/02	1348	18.56	
5	STD21541	SV4684	04/22/02	1423	18.56	
6	STD21542	SV4683	04/22/02	1458	18.55	
7	STD21543	SV4682	04/22/02	1532	18.55	
8	SSC21544	SV4344	04/22/02	1607	18.55	
9	ZZZZZZ	ZZZZZZ	05/14/02	1322		
10	ZZZZZZ	ZZZZZZ	05/14/02	1356		
11	ZZZZZZ	ZZZZZZ	05/14/02	1431		
12	ZZZZZZ	ZZZZZZ	05/14/02	1506		
13	CCV23223	SV4942	05/14/02	1540	18.51	
14	ZZZZZZ	ZZZZZZ	05/14/02	1752		
15	514LCS	69114	05/14/02	1827	18.5	
16	ZZZZZZ	ZZZZZZ	05/14/02	1901		
17	ZZZZZZ	ZZZZZZ	05/14/02	1936		
18	ZZZZZZ	ZZZZZZ	05/14/02	2010		
19	ZZZZZZ	ZZZZZZ	05/14/02	2045		
20	062CEF432N	220402901	05/14/02	2120	18.5	
21	062CEF432NMS	220402902	05/14/02	2154	18.5	
22	062CEF432NSD	220402903	05/14/02	2229	18.49	
23	062CEF436N	220402904	05/14/02	2303	18.5	
24	CCV23224	SV4942	05/14/02	2338	18.49	
25	ZZZZZZ	ZZZZZZ	05/15/02	0012		
26	062CEF437N	220402905	05/15/02	0047	18.5	

QC LIMITS
(+/- 0.23 MINUTES)

S1 = p-Terphenyl-d14

Column used to flag retention time values with an asterisk.

* Values outside of QC limits

8

PAH ORGANIC ANALYTICAL SEQUENCE

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

Lab Code : PEL Case No. SAS No: SDG No.: 2204029

GC Column: Vydac 201TP5 ID: 4.6 (mm) Init. Calib. Date: 04/22/02

Instrument ID: SLC02

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

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 18.55 S2 :

	CLIENT SAMPLE NO	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #
27	062CEF439N	220402906	05/15/02	0122	18.5	
28	062CEF4333N	220402907	05/15/02	0156	18.5	
29	062CEF4338N	220402908	05/15/02	0231	18.5	
30	062DUPQ20249	220402909	05/15/02	0305	18.51	
31	062EQBQ20249	220402910	05/15/02	0340	18.52	
32	ZZZZZZ	ZZZZZZ	05/15/02	0415		
33	ZZZZZZ	ZZZZZZ	05/15/02	0449		
34	ZZZZZZ	ZZZZZZ	05/15/02	0524		
35	ZZZZZZ	ZZZZZZ	05/15/02	0558		
36	CCV23226	SV4942	05/15/02	0633	18.51	
37	ZZZZZZ	ZZZZZZ	05/15/02	0708		
38	514BLK	69113	05/15/02	0806	18.51	
39	ZZZZZZ	ZZZZZZ	05/15/02	0840		
40	ZZZZZZ	ZZZZZZ	05/15/02	0915		
41	ZZZZZZ	ZZZZZZ	05/15/02	0949		
42	CCV23228	SV4942	05/15/02	1024	18.5	
43	ZZZZZZ	ZZZZZZ	05/15/02	1059		
44	ZZZZZZ	ZZZZZZ	05/15/02	1536		
45	ZZZZZZ	ZZZZZZ	05/15/02	1625		
46	ZZZZZZ	ZZZZZZ	05/15/02	1700		
47	ZZZZZZ	ZZZZZZ	05/15/02	1735		

QC LIMITS

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

Column used to flag retention time values with an asterisk.

* Values outside of QC limits

230502 1209 FORM VIII

3

PAH ORGANIC LAB CONTROL SAMPLE RECOVERY

EPA Sample No.: 514LCS

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

Lab Code: PEL Case No. SAS No: SDG No.: 2204029

COMPOUND	SPIKE ADDED UG/L	LCS CONCENTRATION UG/L	LCS % REC #	QC LIMITS REC.
Naphthalene	10	7.1	71.0	45 - 78
Acenaphthylene	10	7.5	75.0	50 - 91
1-Methylnaphthalene	10	6.7	67.0	48 - 92
2-Methylnaphthalene	10	7.6	76.0	52 - 88
Acenaphthene	10	7.4	74.0	52 - 86
Fluorene	10	8.3	83.0	51 - 92
Phenanthrene	10	9.2	92.0	52 - 98
Anthracene	10	9.1	91.0	44 - 105
Fluoranthene	10	8.6	86.0	58 - 99
Pyrene	10	7.6	76.0	56 - 102
Benzo(a)anthracene	10	8.9	89.0	59 - 103
Chrysene	10	9	90.0	58 - 104
Benzo(b)fluoranthene	10	8.8	88.0	53 - 108
Benzo(k)fluoranthene	10	9	90.0	52 - 107
Benzo(a)pyrene	10	8.9	89.0	56 - 101
Dibenz(a,h)anthracene	10	9.9	99.0	41 - 114
Benzo(g,h,i)perylene	10	8.2	82.0	41 - 109
Indeno(1,2,3-cd)pyrene	10	8.1	81.0	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:

3

PAH ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Sample No.

062CEF432NMS

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

Lab Code : PEL Case No. SAS No: SDG No.: 2204029

COMPOUND	SPIKE ADDED UG/L	SAMPLE CONCENTRATION UG/L	MS CONCENTRATION UG/L	MS % REC #	QC LIMITS REC.
Naphthalene	11.1	3.8	8.4	41.4 *	45 - 78
Acenaphthylene	11.1	3.6	9.8	55.9	50 - 91
1-Methylnaphthalene	11.1	3.7	10.2	58.6	48 - 92
2-Methylnaphthalene	11.1	5.7	11.9	55.9	52 - 88
Acenaphthene	11.1	0	6.6	59.5	52 - 86
Fluorene	11.1	0.55	8.5	71.6	51 - 92
Phenanthrene	11.1	0.44	9.5	81.6	52 - 98
Anthracene	11.1	0	9.4	84.7	44 - 105
Fluoranthene	11.1	0	8.9	80.2	58 - 99
Pyrene	11.1	0	8.1	73.0	56 - 102
Benzo(a)anthracene	11.1	0	9.2	82.9	59 - 103
Chrysene	11.1	0	9.2	82.9	58 - 104
Benzo(b)fluoranthene	11.1	0	8.8	79.3	53 - 108
Benzo(k)fluoranthene	11.1	0	9.1	82.0	52 - 107
Benzo(a)pyrene	11.1	0	9.1	82.0	56 - 101
Dibenz(a,h)anthracene	11.1	0	10	90.1	41 - 114
Benzo(g,h,i)perylene	11.1	0	8	72.1	41 - 109
Indeno(1,2,3-cd)pyrene	11.1	0	7.9	71.2	42 - 105

Spike Recovery: 1 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

230502 1209

Standards Data

6

PAH ORGANIC INITIAL CALIBRATION DATA

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

Lab Code : PEL Case No. SAS No: SDG No.: 2204029

Instrument ID: SLC02 Calibration Date: 04/22/02

GC Column: Vydac 201TP5 ID: 4.6 (mm) Calibration Time: 1532

LAB FILE ID: RRF0.2 =PT2STD.D RRF1 =1STD.D
RRF5 =5STD.D RRF10 =10STD.D RRF15 =15STD.D

COMPOUND	RRF0.2	RRF1	RRF5	RRF10	RRF15
Naphthalene	6005.000	5811.000	5285.000	5231.700	5354.933
Acenaphthylene	4935.000	4260.000	4080.800	4095.500	4013.267
1-Methylnaphthalene	14705.000	13253.000	14295.800	16192.800	17505.067
2-Methylnaphthalene	6330.000	4789.000	4459.600	4437.000	4512.133
Acenaphthene	21730.000	17081.000	19256.200	21392.500	23007.600
Fluorene	32365.000	24595.000	23383.600	23856.300	24204.000
Phenanthrene	593135.000	534986.000	561149.400	572656.300	579901.933
Anthracene	207545.000	165907.000	155507.600	153758.700	151894.200
Fluoranthene	59535.000	18079.000	16028.000	15716.800	16019.400
Pyrene	21665.000	14923.000	13945.000	13963.400	14062.467
Benzo(a)anthracene	61285.000	41421.000	36835.200	37384.300	37564.467
Chrysene	92635.000	57396.000	52772.600	52855.700	52776.533
Benzo(b)fluoranthene	45740.000	38512.000	40206.600	40911.900	41676.200
Benzo(k)fluoranthene	43755.000	33342.000	30877.800	31314.300	32391.667
Benzo(a)pyrene	186905.000	185342.000	209976.000	215545.000	219951.867
Dibenz(a,h)anthracene	10405.000	9464.000	7716.600	7999.300	8322.200
Benzo(g,h,i)perylene	16220.000	12364.000	13577.200	15072.300	14048.467
Indeno(1,2,3-cd)pyrene	48015.000	30982.000	34592.200	35888.400	36712.000
p-Terphenyl-d14(SURR)	22915.000	14061.000	14178.600	14103.600	14284.067

6

PAH ORGANIC INITIAL CALIBRATION DATA

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

Lab Code : PEL Case No. SAS No: SDG No.: 2204029

Instrument ID: SLC02 Calibration Date: 04/22/02

GC Column: Vydac 201TP5 ID: 4.6 (mm) Calibration Time: 1532

LAB FILE ID: RRF20 =20STD.D RRF30 =30STD.D

COMPOUND	RRF20	RRF30			
Naphthalene	5109.200	5220.367			
Acenaphthylene	3852.300	3915.467			
1-Methylnaphthalene	17325.200	18234.733			
2-Methylnaphthalene	4311.550	4372.633			
Acenaphthene	22644.850	23828.767			
Fluorene	23339.200	23625.700			
Phenanthrene	557578.800	560007.867			
Anthracene	143331.050	138076.800			
Fluoranthene	15426.050	15717.733			
Pyrene	13669.600	13975.167			
Benzo(a)anthracene	36154.100	37038.733			
Chrysene	50736.250	51588.467			
Benzo(b)fluoranthene	40110.050	40868.933			
Benzo(k)fluoranthene	30344.750	30576.267			
Benzo(a)pyrene	212366.500	215346.233			
Dibenz(a,h)anthracene	8145.100	8353.100			
Benzo(g,h,i)perylene	14132.950	14308.400			
Indeno(1,2,3-cd)pyrene	36088.100	37357.667			
p-Terphenyl-d14(SURR)	13741.550	13974.767			

6

PAH ORGANIC INITIAL CALIBRATION DATA

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

Lab Code : PEL Case No. SAS No: SDG No.: 2204029

Instrument ID: SLC02 Calibration Date: 04/22/02

GC Column: Vydac 201TP5 ID: 4.6 (mm) Calibration Time: 1532

COMPOUND	CURVE	COEFFICIENTS A0	COEFFICIENTS A1	%RSD OR R^2
Naphthalene	LINR		0.0001917578	0.99951
Acenaphthylene	LINR		0.0002545627	0.9993
1-Methylnaphthalene	LINR		5.631320E-05	0.99616
2-Methylnaphthalene	LINR		0.0002281397	0.99951
Acenaphthene	LINR		4.302655E-05	0.99676
Fluorene	LINR		4.228468E-05	0.9997
Phenanthrene	LINR		1.776196E-06	0.99958
Anthracene	LINR		7.007688E-06	0.99616
Fluoranthene	LINR		6.369162E-05	0.99921
Pyrene	LINR		7.186909E-05	0.99974
Benzo(a)anthracene	LINR		2.708279E-05	0.99958
Chrysene	LINR		1.935971E-05	0.99952
Benzo(b)fluoranthene	LINR		2.451458E-05	0.99968
Benzo(k)fluoranthene	LINR		3.243244E-05	0.99891
Benzo(a)pyrene	LINR		4.647018E-06	0.9997
Dibenz(a,h)anthracene	LINR		0.0001209142	0.99939
Benzo(g,h,i)perylene	LINR		7.008307E-05	0.99931
Indeno(1,2,3-cd)pyrene	LINR		2.714471E-05	0.99924
p-Terphenyl-d14(SURR)	LINR		7.156298E-05	0.99964

6

PAH ORGANIC INITIAL CALIBRATION DATA

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

Lab Code : PEL Case No. SAS No: SDG No.: 2204029

Instrument ID: SLC02 Calibration Date: 04/22/02

GC Column: Vydac 201TP5 ID: 4.6 (mm) Calibration Time: 1532

LAB FILE ID: RT1: PT2STD.D RT2: 1STD.D
RT3: 5STD.D RT4: 10STD.D RT5: 15STD.D

COMPOUND	RT1	RT2	RT3	RT4	RT5	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Naphthalene	11.783	11.773	11.767	11.777	11.763			
Acenaphthylene	13.017	13.000	12.997	13.003	12.990			
1-Methylnaphthalene	13.727	13.721	13.715	13.720	13.709			
2-Methylnaphthalene	13.983	13.957	13.960	13.967	13.953			
Acenaphthene	14.391	14.384	14.388	14.393	14.380			
Fluorene	14.663	14.653	14.653	14.657	14.650			
Phenanthrene	15.559	15.551	15.555	15.556	15.554			
Anthracene	16.197	16.183	16.190	16.193	16.190			
Fluoranthene	17.020	17.020	17.023	17.023	17.020			
Pyrene	17.560	17.563	17.567	17.570	17.563			
Benzo(a)anthracene	19.360	19.357	19.357	19.363	19.353			
Chrysene	19.753	19.750	19.753	19.757	19.747			
Benzo(b)fluoranthene	21.170	21.163	21.167	21.173	21.167			
Benzo(k)fluoranthene	21.797	21.790	21.787	21.793	21.787			
Benzo(a)pyrene	22.494	22.486	22.477	22.483	22.479			
Dibenz(a,h)anthracene	23.383	23.367	23.357	23.357	23.347			
Benzo(g,h,i)perylene	24.090	24.090	24.087	24.087	24.080			
Indeno(1,2,3-cd)pyrene	24.570	24.567	24.550	24.550	24.540			
p-Terphenyl-d14(SURR)	18.553	18.553	18.557	18.563	18.557			

6

PAH ORGANIC INITIAL CALIBRATION DATA

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

Lab Code : PEL Case No. SAS No: SDG No.: 2204029

Instrument ID: SLC02 Calibration Date: 04/22/02

GC Column: Vydac 201TP5 ID: 4.6 (mm) Calibration Time: 1532

LAB FILE ID: RT6: 20STD.D RT7: 30STD.D

COMPOUND	RT6	RT7				MEAN RT	RT WINDOW FROM	RT WINDOW TO
Naphthalene	11.787	11.780				11.777	11.553	12.013
Acenaphthylene	13.007	13.000				13.002	12.787	13.247
1-Methylnaphthalene	13.725	13.719				13.720	13.430	13.890
2-Methylnaphthalene	13.967	13.963				13.965	13.753	14.213
Acenaphthene	14.391	14.389				14.388	14.103	14.563
Fluorene	14.660	14.653				14.656	14.433	14.893
Phenanthrene	15.558	15.554				15.555	15.240	15.700
Anthracene	16.190	16.187				16.189	15.967	16.427
Fluoranthene	17.020	17.017				17.019	16.790	17.250
Pyrene	17.563	17.560				17.563	17.330	17.790
Benzo(a)anthracene	19.350	19.350				19.355	19.130	19.590
Chrysene	19.743	19.740				19.748	19.523	19.983
Benzo(b)fluoranthene	21.157	21.153				21.162	20.940	21.400
Benzo(k)fluoranthene	21.773	21.767				21.782	21.567	22.027
Benzo(a)pyrene	22.468	22.462				22.476	22.160	22.620
Dibenz(a,h)anthracene	23.337	23.323				23.350	23.153	23.613
Benzo(g,h,i)perylene	24.073	24.060				24.078	23.860	24.320
Indeno(1,2,3-cd)pyrene	24.533	24.513				24.543	24.340	24.800
p-Terphenyl-d14(SURR)	18.550	18.547				18.553	18.323	18.783

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PAH ORGANIC CONTINUING CALIBRATION DATA

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

Lab Code : PEL Case No. SAS No: SDG No.: 2204029

Instrument ID: SLC02 CalibrationDate: 05/14/02 Time: 1540

Lab File ID: CCV22.D Init. Calib. Date: 04/22/02

GC Column: Vydac 201TP5 ID: 4.6 (mm)

COMPOUND	SAMPLE AMOUNT	15 AMOUNT	CURVE	%D	MAX %D
Naphthalene	14.1	15	LINR	6.0	15.0
Acenaphthylene	14.1	15	LINR	6.0	15.0
1-Methylnaphthalene	13.7	15	LINR	8.7	15.0
2-Methylnaphthalene	14.5	15	LINR	3.3	15.0
Acenaphthene	13.9	15	LINR	7.3	15.0
Fluorene	14.5	15	LINR	3.3	15.0
Phenanthrene	14.3	15	LINR	4.7	15.0
Anthracene	15	15	LINR	0.0	15.0
Fluoranthene	14.1	15	LINR	6.0	15.0
Pyrene	12.9	15	LINR	14.0	15.0
Benzo(a)anthracene	14.4	15	LINR	4.0	15.0
Chrysene	14	15	LINR	6.7	15.0
Benzo(b)fluoranthene	14.3	15	LINR	4.7	15.0
Benzo(k)fluoranthene	14.4	15	LINR	4.0	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	13.7	15	LINR	8.7	15.0
Indeno(1,2,3-cd)pyrene	13.8	15	LINR	8.0	15.0
p-Terphenyl-d14	14.7	15	LINR	2.0	15.0

7

PAH ORGANIC CONTINUING CALIBRATION DATA

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

Lab Code: PEL Case No. SAS No: SDG No.: 2204029

Instrument ID: SLC02 CalibrationDate: 05/14/02 Time: 2338

Lab File ID: CCV31.D Init. Calib. Date: 04/22/02

GC Column: Vydac 201TP5 ID: 4.6 (mm)

COMPOUND	SAMPLE AMOUNT	15 AMOUNT	CURVE	%D	MAX %D
Naphthalene	14.6	15	LINR	2.7	15.0
Acenaphthylene	14.4	15	LINR	4.0	15.0
1-Methylnaphthalene	14.5	15	LINR	3.3	15.0
2-Methylnaphthalene	14.9	15	LINR	0.7	15.0
Acenaphthene	14.4	15	LINR	4.0	15.0
Fluorene	14.6	15	LINR	2.7	15.0
Phenanthrene	14.8	15	LINR	1.3	15.0
Anthracene	15.2	15	LINR	1.3	15.0
Fluoranthene	14.3	15	LINR	4.7	15.0
Pyrene	13	15	LINR	13.3	15.0
Benzo(a)anthracene	14.6	15	LINR	2.7	15.0
Chrysene	14.7	15	LINR	2.0	15.0
Benzo(b)fluoranthene	14.5	15	LINR	3.3	15.0
Benzo(k)fluoranthene	14.5	15	LINR	3.3	15.0
Benzo(a)pyrene	14.4	15	LINR	4.0	15.0
Dibenz(a,h)anthracene	15.3	15	LINR	2.0	15.0
Benzo(g,h,i)perylene	13.6	15	LINR	9.3	15.0
Indeno(1,2,3-cd)pyrene	13.6	15	LINR	9.3	15.0
p-Terphenyl-d14	14.8	15	LINR	1.3	15.0

7

PAH ORGANIC CONTINUING CALIBRATION DATA

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

Lab Code : PEL Case No. SAS No: SDG No.: 2204029

Instrument ID: SLC02 CalibrationDate: 05/15/02 Time: 0633

Lab File ID: CCV41.D Init. Calib. Date: 04/22/02

GC Column: Vydac 201TP5 ID: 4.6 (mm)

COMPOUND	SAMPLE AMOUNT	15 AMOUNT	CURVE	%D	MAX %D
Naphthalene	14.6	15	LINR	2.7	15.0
Acenaphthylene	14.8	15	LINR	1.3	15.0
1-Methylnaphthalene	14.2	15	LINR	5.3	15.0
2-Methylnaphthalene	15	15	LINR	0.0	15.0
Acenaphthene	14.2	15	LINR	5.3	15.0
Fluorene	14.6	15	LINR	2.7	15.0
Phenanthrene	14.6	15	LINR	2.7	15.0
Anthracene	15.2	15	LINR	1.3	15.0
Fluoranthene	14.6	15	LINR	2.7	15.0
Pyrene	13.1	15	LINR	12.7	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	14.4	15	LINR	4.0	15.0
Benzo(k)fluoranthene	14.5	15	LINR	3.3	15.0
Benzo(a)pyrene	14.2	15	LINR	5.3	15.0
Dibenz(a,h)anthracene	13.6	15	LINR	9.3	15.0
Benzo(g,h,i)perylene	13.5	15	LINR	10.0	15.0
Indeno(1,2,3-cd)pyrene	13.4	15	LINR	10.7	15.0
p-Terphenyl-d14	14.8	15	LINR	1.3	15.0

7

PAH ORGANIC CONTINUING CALIBRATION DATA

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

Lab Code : PEL Case No. SAS No: SDG No.: 2204029

Instrument ID: SLC02 CalibrationDate: 05/15/02 Time: 1024

Lab File ID: CCV51.D Init. Calib. Date: 04/22/02

GC Column: Vydac 201TP5 ID: 4.6 (mm)

COMPOUND	SAMPLE AMOUNT	15 AMOUNT	CURVE	%D	MAX %D
Naphthalene	14.2	15	LINR	5.3	15.0
Acenaphthylene	14.1	15	LINR	6.0	15.0
1-Methylnaphthalene	13.9	15	LINR	7.3	15.0
2-Methylnaphthalene	14.6	15	LINR	2.7	15.0
Acenaphthene	14	15	LINR	6.7	15.0
Fluorene	14.5	15	LINR	3.3	15.0
Phenanthrene	14.4	15	LINR	4.0	15.0
Anthracene	15	15	LINR	0.0	15.0
Fluoranthene	14.1	15	LINR	6.0	15.0
Pyrene	12.8	15	LINR	14.7	15.0
Benzo(a)anthracene	14.4	15	LINR	4.0	15.0
Chrysene	14.6	15	LINR	2.7	15.0
Benzo(b)fluoranthene	14.3	15	LINR	4.7	15.0
Benzo(k)fluoranthene	14.3	15	LINR	4.7	15.0
Benzo(a)pyrene	14	15	LINR	6.7	15.0
Dibenz(a,h)anthracene	14.7	15	LINR	2.0	15.0
Benzo(g,h,i)perylene	13.2	15	LINR	12.0	15.0
Indeno(1,2,3-cd)pyrene	14.2	15	LINR	5.3	15.0
p-Terphenyl-d14	14.7	15	LINR	2.0	15.0

7SSC

PAH ORGANIC SECONDARY SOURCE CALIBRATION DATA

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

Lab Code: PEL Case No. SAS No: SDG No.: 2204029

Instrument ID: SLC02 CalibrationDate: 04/22/02 Time: 1607

Lab File ID: SECCCV.D Init. Calib. Date: 04/22/02

GC Column: Vydac 201TP5 ID: 4.6 (mm)

COMPOUND	SAMPLE AMOUNT	0 AMOUNT	CURVE	%D	MAX %D
Naphthalene	16.7	15	LINR	11.3	15.0
Acenaphthylene	15.4	15	LINR	2.7	15.0
1-Methylnaphthalene	16.1	15	LINR	7.3	15.0
2-Methylnaphthalene	16.5	15	LINR	10.0	15.0
Acenaphthene	16	15	LINR	6.7	15.0
Fluorene	16.3	15	LINR	8.7	15.0
Phenanthrene	16.6	15	LINR	10.7	15.0
Anthracene	15.9	15	LINR	6.0	15.0
Fluoranthene	16.3	15	LINR	8.7	15.0
Pyrene	16.5	15	LINR	10.0	15.0
Benzo(a)anthracene	16.3	15	LINR	8.7	15.0
Chrysene	16.5	15	LINR	10.0	15.0
Benzo(b)fluoranthene	16.5	15	LINR	10.0	15.0
Benzo(k)fluoranthene	16.2	15	LINR	8.0	15.0
Benzo(a)pyrene	16.3	15	LINR	8.7	15.0
Dibenz(a,h)anthracene	16.9	15	LINR	12.7	15.0
Benzo(g,h,i)perylene	16	15	LINR	6.7	15.0
Indeno(1,2,3-cd)pyrene	16.1	15	LINR	7.3	15.0
p-Terphenyl-d14	16.1	15	LINR	7.3	15.0

GC FL-PRO ORGANICS

METHOD FL-PRO

230502 1209

CASE NARRATIVE
FLORIDA PETROLEUM RANGE ORGANICS (FL PRO) SEMIVOLATILE ORGANICS

PEL Lab Reference No./SDG: 2204029

Client: CH2M Hill

I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody or a communication form is included in the addendum with this package.

II. HOLDING TIMES

A. Sample Preparation: All holding times were met.

B. Sample Analysis: All holding times were met.

III. METHODS

Florida DEP/FL PRO

IV. PREPARATION

Water samples were prepared by FL PRO for semi-volatile analysis.

V. ANALYSIS

A. Calibration:

All acceptance criteria were met.

B. Blanks:

All acceptance criteria were met.

C. Surrogates:

All acceptance criteria were met with the exception of:

Sample 062CEF432N was recovered below criteria for the following surrogate(s): o-Terphenyl Surrogate at 76 % with criteria of (82-142). Sample 062CEF4333N was recovered below criteria for the following surrogate(s): o-Terphenyl Surrogate at 74.5 % with criteria of (82-142). Sample 062CEF4338N was recovered below criteria for the following surrogate(s): o-Terphenyl Surrogate at 80.9 % with criteria of (82-142). Sample 062CEF437N was recovered below criteria for the following surrogate(s): o-Terphenyl Surrogate at 80.9 % with criteria of (82-142). Sample 062CEF439N was recovered below criteria for the following surrogate(s): o-Terphenyl Surrogate at 44.5 % with criteria of (82-142). Sample 062DUPQ20249 was recovered below criteria for the following surrogate(s): o-Terphenyl Surrogate at 80.9 % with criteria of (82-142). Most likely due to matrix interference and since the other surrogate met criteria no further action was taken.
Sample 062CEF432NMS was recovered below criteria for the following surrogate(s): C39 Surrogate at 38.7 % with criteria of (42-193), o-Terphenyl Surrogate at 64 % with criteria of (82-142). Most likely due to matrix interference.
Sample BLK2MS was recovered below criteria for the following surrogate(s): o-Terphenyl Surrogate at 77 % with criteria of (82-142).

Samples coded accordingly.

CASE NARRATIVE
FLORIDA PETROLEUM RANGE ORGANICS (FL PRO) SEMIVOLATILE ORGANICS

PEL Lab Reference No./SDG: 2204029

Client: CH2M Hill

D. Spikes:

1. **Laboratory Control Spikes (LCS)**

   All acceptance criteria were met.

2. **Matrix Spike/Matrix Spike Duplicate Samples (MS/SD)**

   A client requested MS/SD set was analyzed and a reagent MS/SD set was analyzed. The reagent MS/SD met all criteria while in the client requested MS/SD the TPH was found to be almost ten times our spike amount. The sample and spikes required dilution for analysis and the high amounts of target analyte interfered with the spike recoveries. Both sets of spikes were reported.

   Samples coded accordingly.

E. Internal Standards:

This method does not require the use of internal standards.

F. Samples:

Sample analysis proceeded normally.
Sample 062CEF432N required a 1:10 dilution due to high concentration of the target analyte: .

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: 5-23-07

FL-PRO ORGANIC CROSS REFERENCE TABLE

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

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 2204029

Method: FL-PRO

EPA Sample No	Lab Sample ID
062CEF432N	220402901
062CEF436N	220402904
062CEF437N	220402905
062CEF439N	220402906
062CEF4333N	220402907
062CEF4338N	220402908
062DUPQ20249	220402909
062EQBQ20249	220402910

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Sample Data

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1

FL-PRO ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062CEF432N

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

Lab Code: PEL Case No. SAS No: SDG No.: 2204029

Matrix: WATER Lab Sample ID: 220402901 Lab File ID: 29-1D.D

Sample wt/vol: 950 Units: ML Date Received: 05/10/02

Concentrated Extract Volume: 2 Date Extracted: 05/15/02

Level:(low/med) LOW Date Analyzed: 05/20/02 Time: 1628

PercentSolids: 0 decanted : Dilution Factor: 10

Extraction: SEPF Station ID: CEF-043-2N 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	24.6	

1

FL-PRO ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062CEF436N

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

Lab Code: PEL Case No. SAS No: SDG No.: 2204029

Matrix: WATER Lab Sample ID: 220402904 Lab File ID: 29-4.D

Sample wt/vol: 965 Units: ML Date Received: 05/10/02

Concentrated Extract Volume: 2 Date Extracted: 05/15/02

Level:(low/med) LOW Date Analyzed: 05/20/02 Time: 1657

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: SEPF Station ID: CEF-043-6N 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	3.6	

1

FL-PRO ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062CEF437N

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

Lab Code: PEL Case No. SAS No: SDG No.: 2204029

Matrix: WATER Lab Sample ID: 220402905 Lab File ID: 29-5.D

Sample wt/vol: 940 Units: ML Date Received: 05/10/02

Concentrated Extract Volume: 2 Date Extracted: 05/15/02

Level:(low/med) LOW Date Analyzed: 05/20/02 Time: 1725

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: SEPF Station ID: CEF-043-7N 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	2.6	

1

FL-PRO ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062CEF439N

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

Lab Code: PEL Case No. SAS No: SDG No.: 2204029

Matrix: WATER Lab Sample ID: 220402906 Lab File ID: 29-6.D

Sample wt/vol: 910 Units: ML Date Received: 05/10/02

Concentrated Extract Volume: 2 Date Extracted: 05/15/02

Level:(low/med) LOW Date Analyzed: 05/20/02 Time: 1754

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: SEPF Station ID: CEF-043-9N 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	5.3	

1

FL-PRO ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062CEF4333N

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

Lab Code: PEL Case No. SAS No: SDG No.: 2204029

Matrix: WATER Lab Sample ID: 220402907 Lab File ID: 29-7.D

Sample wt/vol: 915 Units: ML Date Received: 05/10/02

Concentrated Extract Volume: 2 Date Extracted: 05/15/02

Level:(low/med) LOW Date Analyzed: 05/20/02 Time: 1822

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: SEPF Station ID: CEF-043-33N 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	U

1

FL-PRO ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062CEF4338N

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

Lab Code: PEL Case No. SAS No: SDG No.: 2204029

Matrix: WATER Lab Sample ID: 220402908 Lab File ID: 29-8.D

Sample wt/vol: 900 Units: ML Date Received: 05/10/02

Concentrated Extract Volume: 2 Date Extracted: 05/15/02

Level:(low/med) LOW Date Analyzed: 05/20/02 Time: 1851

PercentSolids: 0 decanted : Dilution Factor: 1

Extraction: SEPF Station ID: CEF-043-38N 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	0.38	U

1

FL-PRO ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062DUPQ20249

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

Lab Code: PEL Case No. SAS No: SDG No.: 2204029

Matrix: WATER Lab Sample ID: 220402909 Lab File ID: 29-9.D

Sample wt/vol: 932 Units: ML Date Received: 05/10/02

Concentrated Extract Volume: 2 Date Extracted: 05/15/02

Level:(low/med) LOW Date Analyzed: 05/20/02 Time: 1947

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	3.7	

1

FL-PRO ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: 062EQBQ20249

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

Lab Code: PEL Case No. SAS No: SDG No.: 2204029

Matrix: WATER Lab Sample ID: 220402910 Lab File ID: 29-10.D

Sample wt/vol: 950 Units: ML Date Received: 05/10/02

Concentrated Extract Volume: 2 Date Extracted: 05/15/02

Level:(low/med) LOW Date Analyzed: 05/20/02 Time: 2016

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	0.36	U

QC Summary

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1

FL-PRO ORGANIC ANALYSIS DATA SHEET

EPA Sample No.: BLK2

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

Lab Code: PEL Case No. SAS No: SDG No.: 2204029

Matrix: WATER Lab Sample ID: 69260 Lab File ID: BLK2.D

Sample wt/vol: 1000 Units: ML Date Received: 05/15/02

Concentrated Extract Volume: 2 Date Extracted: 05/15/02

Level:(low/med) LOW Date Analyzed: 05/20/02 Time: 2113

PercentSolids: 0 decanted: Dilution Factor: 1

Extraction: SEPF Station ID: QC 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	0.34	U

4

FL-PRO ORGANIC METHOD BLANK SUMMARY

EPA Sample No.: BLK2

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

Lab Code : PEL Case No. SAS No: SDG No.: 2204029

Lab File ID: BLK2.D Lab Sample ID: 69260

Instrument ID: SFID01 Date Extracted: 05/15/02

Matrix: WATER Date Analyzed: 05/20/02

Level:(low/med) LOW Time Analyzed: 2113

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	062CEF432N	220402901	29-1D.D	05/20/02	1628
2	062CEF436N	220402904	29-4.D	05/20/02	1657
3	062CEF437N	220402905	29-5.D	05/20/02	1725
4	062CEF439N	220402906	29-6.D	05/20/02	1754
5	062CEF4333N	220402907	29-7.D	05/20/02	1822
6	062CEF4338N	220402908	29-8.D	05/20/02	1851
7	062DUPQ20249	220402909	29-9.D	05/20/02	1947
8	062EQBQ20249	220402910	29-10.D	05/20/02	2016
9	LCS2	69261	LCS2.D	05/20/02	2141
10	BLK2MS	69262	BLKMS2.D	05/20/02	2209
11	BLK2MSD	69263	BLKMSD2.D	05/20/02	2237
12	062CEF432NMS	220402902	29-2D.D	05/21/02	0842
13	062CEF432NSD	220402903	29-3D.D	05/21/02	0910

COMMENTS:

2A

WATER FL-PRO ORGANIC SURROGATE RECOVERY

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

Lab Code : PEL Case No. _____ SAS No: _____ SDG NO.: 2204029

Column(1): RTX-5 ID: 0.53 (mm)

EPA Sample NO.	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	TOT OUT
062CEF432N	76.0 *	58.7					1
062CEF432NMS	64.0 *	38.7 *					2
062CEF432NSD	82.7	63.1					0
062CEF4333N	74.5 *	104.5					1
062CEF4338N	80.9 *	109.0					1
062CEF436N	84.0	98.4					0
062CEF437N	80.9 *	106.2					1
062CEF439N	44.5 *	57.6					1
062DUPQ20249	81.8 *	110.9					1
062EQBQ20249	86.0	115.9					0
BLK2	82.0	110.0					0
BLK2MS	77.0 *	98.3					1
BLK2MSD	84.0	105.0					0
LCS2	84.0	108.3					0

Control Limits

S1	= o-Terphenyl Surrogate	82 - 142
S2	= C39 Surrogate	42 - 193

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

Control limit source: (lab/method) METHOD

Form II

230502 1209

FL-PRO ORGANIC ANALYTICAL SEQUENCE

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

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 2204029

GC Column: RTX-5 ID: 0.53 (mm) Init. Calib. Date: 05/20/02

Instrument ID: SFID01

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

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 4.34 S2 : 8.88

	CLIENT SAMPLE NO	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #
1	STD23880	CAL7SV5069	05/20/02	0923	4.34	8.87
2	STD23879	CAL6SV5070	05/20/02	0951	4.35	8.92
3	STD23877	CAL5SV5071	05/20/02	1020	4.35	8.93
4	STD23876	CAL4SV5072	05/20/02	1048	4.33	8.87
5	STD23875	CAL3SV5073	05/20/02	1116	4.35	8.92
6	STD23874	CAL3SV5074	05/20/02	1144	4.32	8.78
7	STD23886	CAL1SV5073A	05/20/02	1241	4.34	8.9
8	SSC23887	SECSV5074A	05/20/02	1309	4.36	8.94
9	ZZZZZZ	ZZZZZZ	05/20/02	1338		
10	CCV23878	CAL5SV5071	05/20/02	1406	4.35	8.9
11	ZZZZZZ	ZZZZZZ	05/20/02	1435		
12	ZZZZZZ	ZZZZZZ	05/20/02	1503		
13	ZZZZZZ	ZZZZZZ	05/20/02	1531		
14	ZZZZZZ	ZZZZZZ	05/20/02	1600		
15	062CEF432N	220402901	05/20/02	1628	4.35	8.88
16	062CEF436N	220402904	05/20/02	1657	4.34	8.89
17	062CEF437N	220402905	05/20/02	1725	4.35	8.9
18	062CEF439N	220402906	05/20/02	1754	4.34	8.84
19	062CEF4333N	220402907	05/20/02	1822	4.32	8.84
20	062CEF4338N	220402908	05/20/02	1851	4.32	8.75
21	CCV23882	CCV2SV5071	05/20/02	1919	4.32	8.8
22	062DUPQ20249	220402909	05/20/02	1947	4.31	8.76
23	062EQBQ20249	220402910	05/20/02	2016	4.31	8.75
24	CCV23883	CCV3SV5071	05/20/02	2044	4.31	8.73
25	BLK2	69260	05/20/02	2113	4.31	8.73
26	LCS2	69261	05/20/02	2141	4.31	8.77

QC LIMITS

S1 = o-Terphenyl Surrogate (+/- 0.07 MINUTES)

S2 = C39 Surrogate (+/- 0.3 MINUTES)

Column used to flag retention time values with an asterisk.

* Values outside of QC limits

FL-PRO ORGANIC ANALYTICAL SEQUENCE

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

Lab Code : PEL Case No. SAS No: SDG No.: 2204029

GC Column: RTX-5 ID: 0.53 (mm) Init. Calib. Date: 05/20/02

Instrument ID: SFID01

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

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 4.34 S2 : 8.88

	CLIENT SAMPLE NO	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #
27	BLK2MS	69262	05/20/02	2209	4.3	8.67
28	BLK2MSD	69263	05/20/02	2237	4.31	8.73
29	ZZZZZZ	ZZZZZZ	05/20/02	2306		
30	ZZZZZZ	ZZZZZZ	05/20/02	2334		
31	ZZZZZZ	ZZZZZZ	05/21/02	0002		
32	ZZZZZZ	ZZZZZZ	05/21/02	0030		
33	ZZZZZZ	ZZZZZZ	05/21/02	0058		
34	ZZZZZZ	ZZZZZZ	05/21/02	0126		
35	CCV23884	CCV4S5071	05/21/02	0154	4.3	8.68
36	062CEF432NMS	220402902	05/21/02	0842	4.44 *	9.25 *
37	062CEF432NSD	220402903	05/21/02	0910	4.35	8.92
38	CCV23881	CCV2SV5071	05/21/02	0939	4.34	8.88
39	ZZZZZZ	ZZZZZZ	05/21/02	1007		
40	ZZZZZZ	ZZZZZZ	05/21/02	1035		

			QC LIMITS
S1	=	o-Terphenyl Surrogate	(+/- 0.07 MINUTES)
S2	=	C39 Surrogate	(+/- 0.3 MINUTES)

Column used to flag retention time values with an asterisk.

* Values outside of QC limits

3

FL-PRO ORGANIC LAB CONTROL SAMPLE RECOVERY

EPA Sample No.: LCS2

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

Lab Code: PEL Case No. _____ SAS No: _____ SDG No.: 2204029

COMPOUND	SPIKE ADDED MG/L	LCS CONCENTRATION MG/L	LCS % REC #	QC LIMITS REC.
TPH	3.4	3	88.2	55 - 118

Spike Recovery: 0 out of 1 outside limits

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS:

3

FL-PRO ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Sample No.

062CEF432NMS

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

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 2204029

COMPOUND	SPIKE ADDED MG/L	SAMPLE CONCENTRATION MG/L	MS CONCENTRATION MG/L	MS % REC #	QC LIMITS REC.
TPH	3.5	24.6	21.9	625.7 *	41 - 101

Spike Recovery: 1 out of 1 outside limits

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS: _____

Form III

230502 1209

3

FL-PRO ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Sample No.

062CEF432NSD

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

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 2204029

COMPOUND	SPIKE ADDED MG/L	MSD CONCENTRATION MG/L	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
TPH	3.7	28.5	105.4 *	200.0 *	20	41 - 101

RPD: 1 out of 1 outside limits

Spike Recovery: 1 out of 1 outside limits

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS: _____

Form III

230502 1209

3

FL-PRO ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Sample No.: BLK2MS

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

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 2204029

COMPOUND	SPIKE ADDED MG/L	SAMPLE CONCENTRATION MG/L	MS CONCENTRATION MG/L	MS % REC #	QC LIMITS REC.
TPH	3.4	0	3.2	94.1	41 - 101

Spike Recovery: 0 out of 1 outside limits

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS: _____

Form III

230502 1209

3

FL-PRO ORGANIC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

EPA Sample No.

BLK2MSD

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

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 2204029

COMPOUND	SPIKE ADDED MG/L	MSD CONCENTRATION MG/L	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
TPH	3.4	2.9	85.3	7.6	20	41 - 101

RPD: 0 out of 1 outside limits

Spike Recovery: 0 out of 1 outside limits

Column to be used to flag recovery values with an asterisk

* Values outside QC limits

Control limit source: (lab/method) METHOD

COMMENTS: _____

Form III

230502 1209

Standards Data

6

FL-PRO ORGANIC INITIAL CALIBRATION DATA

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

Lab Code : PEL Case No. SAS No: SDG No.: 2204029

Instrument ID: SFID01 Calibration Date: 05/20/02

GC Column: RTX-5 ID: 0.53 (mm) Calibration Time: 1241

LAB FILE ID: RRF0.034 =CAL1.D RRF0.17 =CAL2.D
RRF0.84 =CAL3.D RRF1.7 =CAL4.D RRF2.55 =CAL5.D

COMPOUND	RRF0.034	RRF0.17	RRF0.84	RRF1.7	RRF2.55
TPH	47691352.941	11918476.471	11754558.333	9728877.647	8795652.549
o-Terphenyl Surrogate(SURR)	10501500.000	10638320.000	10674340.000	10921600.000	10310060.000
C39 Surrogate(SURR)	6117530.000	6179003.333	6049053.333	6171770.000	5670610.000

6

FL-PRO ORGANIC INITIAL CALIBRATION DATA

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

Lab Code : PEL Case No. SAS No: SDG No.: 2204029

Instrument ID: SFID01 Calibration Date: 05/20/02

GC Column: RTX-5 ID: 0.53 (mm) Calibration Time: 1241

LAB FILE ID: RRF5.1 =CAL6.D RRF6.8 =CAL7.D

COMPOUND	RRF5.1	RRF6.8			
TPH	9586971.569	9030735.294			
o-Terphenyl Surrogate(SURR)	10911000.000	10977900.000			
C39 Surrogate(SURR)	5405423.333	7815000.000			

6

FL-PRO ORGANIC INITIAL CALIBRATION DATA

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

Lab Code : PEL Case No. SAS No: SDG No.: 2204029

Instrument ID: SFID01 Calibration Date: 05/20/02

GC Column: RTX-5 ID: 0.53 (mm) Calibration Time: 1241

COMPOUND	CURVE	COEFFICIENTS AO	COEFFICIENTS A1	%RSD OR R^2
TPH	LINR	-0.122082859	1.108747E-07	0.99727
o-Terphenyl Surrogate(SURR)	AVRG		10704960	2.3
C39 Surrogate(SURR)	AVRG		6201198.5714	12.4

FL-PRO ORGANIC INITIAL CALIBRATION DATA

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

Lab Code : PEL Case No. SAS No: SDG No.: 2204029

Instrument ID: SFID01 Calibration Date: 05/20/02

GC Column: RTX-5 ID: 0.53 (mm) Calibration Time: 1241

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	RT WINDOW TO
TPH	5.875	5.875	5.875	5.875	5.875			
o-Terphenyl Surrogate(SURR)	4.340	4.320	4.350	4.333	4.350			
C39 Surrogate(SURR)	8.903	8.777	8.917	8.873	8.933			

6

FL-PRO ORGANIC INITIAL CALIBRATION DATA

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

Lab Code : PEL Case No. SAS No: SDG No.: 2204029

Instrument ID: SFID01 Calibration Date: 05/20/02

GC Column: RTX-5 ID: 0.53 (mm) Calibration Time: 1241

LAB FILE ID: RT6: CAL6.D RT7: CAL7.D

COMPOUND	RT6	RT7				MEAN RT	RT WINDOW FROM	RT WINDOW TO
TPH	6.741	5.875				5.999	1.750	10.500
o-Terphenyl Surrogate(SURR)	4.347	4.341				4.340	4.270	4.410
C39 Surrogate(SURR)	8.917	8.874				8.885	8.603	9.203

7

FL-PRO ORGANIC CONTINUING CALIBRATION DATA

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

Lab Code: PEL Case No. SAS No: SDG No.: 2204029

Instrument ID: SFID01 CalibrationDate: 05/20/02 Time: 1406

Lab File ID: CCVS1.D Init. Calib. Date: 05/20/02

GC Column: RTX-5 ID: 0.53 (mm)

COMPOUND	SAMPLE AMOUNT	2.55 AMOUNT	CURVE	%D	MAX %D
TPH	2.24	2.55	LINR	12.2	25.0
C39 Surrogate	0.303	0.3	AVRG	1.0	25.0
o-Terphenyl Surrogate	0.0498	0.05	AVRG	0.4	25.0

7

FL-PRO ORGANIC CONTINUING CALIBRATION DATA

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

Lab Code : PEL Case No. SAS No: SDG No.: 2204029

Instrument ID: SFID01 CalibrationDate: 05/21/02 Time: 0939

Lab File ID: CCVS5.D Init. Calib. Date: 05/20/02

GC Column: RTX-5 ID: 0.53 (mm)

COMPOUND	SAMPLE AMOUNT	2.55 AMOUNT	CURVE	%D	MAX %D
TPH	2.65	2.55	LINR	3.9	25.0
C39 Surrogate	0.332	0.3	AVRG	10.7	25.0
o-Terphenyl Surrogate	0.0531	0.05	AVRG	6.2	25.0

7

FL-PRO ORGANIC CONTINUING CALIBRATION DATA

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

Lab Code : PEL Case No. SAS No: SDG No.: 2204029

Instrument ID: SFID01 CalibrationDate: 05/20/02 Time: 1919

Lab File ID: CCVS2.D Init. Calib. Date: 05/20/02

GC Column: RTX-5 ID: 0.53 (mm)

COMPOUND	SAMPLE AMOUNT	2.55 AMOUNT	CURVE	%D	MAX %D
TPH	2.55	2.55	LINR	0.0	25.0
C39 Surrogate	0.356	0.3	AVRG	18.7	25.0
o-Terphenyl Surrogate	0.0543	0.05	AVRG	8.6	25.0

7

FL-PRO ORGANIC CONTINUING CALIBRATION DATA

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

Lab Code : PEL Case No. SAS No: SDG No.: 2204029

Instrument ID: SFID01 CalibrationDate: 05/20/02 Time: 2044

Lab File ID: CCVS3.D Init. Calib. Date: 05/20/02

GC Column: RTX-5 ID: 0.53 (mm)

COMPOUND	SAMPLE AMOUNT	2.55 AMOUNT	CURVE	%D	MAX %D
TPH	2.46	2.55	LINR	3.5	25.0
o-Terphenyl Surrogate	0.0533	0.05	AVRG	6.6	25.0
C39 Surrogate	0.341	0.3	AVRG	13.7	25.0

7

FL-PRO ORGANIC CONTINUING CALIBRATION DATA

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

Lab Code : PEL Case No. SAS No: SDG No.: 2204029

Instrument ID: SFID01 / CalibrationDate: 05/21/02 Time: 0154

Lab File ID: CCV4S.D Init. Calib. Date: 05/20/02

GC Column: RTX-5 ID: 0.53 (mm)

COMPOUND	SAMPLE AMOUNT	2.55 AMOUNT	CURVE	%D	MAX %D
TPH	2.75	2.55	LINR	7.8	25.0
C39 Surrogate	0.344	0.3	AVRG	14.7	25.0
o-Terphenyl Surrogate	0.0533	0.05	AVRG	6.6	25.0

7SSC

FL-PRO ORGANIC SECONDARY SOURCE CALIBRATION DATA

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

Lab Code : PEL Case No. SAS No: SDG No.: 2204029

Instrument ID: SFID01 CalibrationDate: 05/20/02 Time: 1309

Lab File ID: SEC2.D Init. Calib. Date: 05/20/02

GC Column: RTX-5 ID: 0.53 (mm)

COMPOUND	SAMPLE AMOUNT	0 AMOUNT	CURVE	%D	MAX %D
TPH	2.1	2.55	LINR	17.6	25.0
C39 Surrogate	0.288	0.3	AVRG	4.0	25.0
o-Terphenyl Surrogate	0.0494	0.05	AVRG	1.2	25.0

Inorganics

Inorganic Data Qualifiers

C (Concentration) Qualifier - Entries and their meanings are:

B The reported value obtained was less than the RL but greater than or equal to the MDL.

E The reported value obtained was over calibration or linear range.

U The reported value obtained was less than the MDL or was not detected.

Q Qualifier - Entries and their meanings are:

U The reported value is estimated because of interference. An explanatory comment must be included under "Comments" on the Cover Page if the problem applies to all samples in this data package or on the individual FORM 1 if it is an isolated problem.

M Duplicate injection precision was not met (two analyses of the same sample did not agree).

N Spiked sample recovery not within control limits.

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

W Post-digestion spike for Furnace AA analysis is out of control limits (85-115%) while sample absorbance is less than 50% of spike absorbance.

***** Duplicate analysis not within control limits.

+ Correlation coefficient for the MSA is less than 0.995.

X The data is flagged as rejected by analyst utilizing analytical judgement.

Entering "S", "W", or "+" is mutually exclusive. No combination of these qualifiers can apear in the same field.

M (Method) Qualifier - Enter one of the following:

P	ICP
A	Flame AA
F	Furnace AA
CV	Manual Cold Vapor AA
TC	Total Organic Carbon
AS	Semi-Automated Spectrophotometric
CA	Midi-Distillation Spectrophotometric
T	Titrimetric
C	Manual Spectrophotometric
GR	Gravimetric
NR	Analyte was not required by your lab

Inorganic Sample ID Qualifiers

The qualifiers that may be appended to the lab sample ID and/or the client sample ID for inorganic analysis are defined below:

DL Diluted reanalysis. Indicates that the results of the original analysis of the sample contained compounds that exceeded the calibration range. The sample was diluted and reanalyzed. May be followed by a digit to indicate multiple dilutions of the sample. The results of more than one diluted reanalysis may be reported.

R Reanalysis. The extract was reanalyzed without re-extraction. The "R" is not used if the sample was also re-extracted. May be followed by a digit to indicate multiple reanalysis of the sample at the same dilution.

RE Re-extracted. The extract was reanalyzed with re-extraction. May be followed by a digit to indicate multiple re-extraction of the same sample at the same dilution.

MS Matrix spike (may be followed by a digit to indicate multiple matrix within a sample set).

SD Matrix spike duplicate (may be followed by a digit to indicate multiple matrix spike duplicate within a sample set).

230602 1209

METALS DATA PACKAGE
TOTALS

230502 1209

CASE NARRATIVE
METALS

PEL Lab Reference No./SDG: 2204029

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. METHOD

Analyses were performed according to PEL Laboratory's Standard Operating Procedures and EPA Method 6010B for ICP metals.

IV. PREPARATION

Water samples were prepared according to PEL Laboratory's Standard Operating Procedures and EPA method 3010A.

V. ANALYSIS

A. Calibration:

All acceptance criteria were met.

B. Blanks:

1. **Calibration Blanks:**

   All acceptance criteria were met.

2. **Method Blanks:**

   All acceptance criteria were met.

C. Spikes:

1. **Laboratory Control Spikes (LCS):**

   All acceptance criteria were met.

2. **Post Digestion Spike:**

   All acceptance criteria were met.

CASE NARRATIVE
METALS

PEL Lab Reference No./SDG: 2204029

Client: CH2M Hill

3. **Matrix Spike/Matrix Spike Duplicate Samples (MS/SD):**

A client requested MS/SD set was analyzed.
All percent recovery and relative percent difference(RPD) criteria were met.

D. Duplicate:

No sample duplicates are reported with this method. (Spike duplicates are referenced above in section C. Spikes.)

E. Serial Dilution:

All acceptance criteria were met.

F. ICP Interference Check Samples:

All acceptance criteria were met.

G. Samples:

Sample analysis proceeded normally.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and PEL, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as, verified by the following signature.

SIGNED: _____ **DATE:** 5/20/02

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COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

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

Lab Code : PEL Case No. SDG No.: 2204029

SOW No.:

EPA Sample No	Lab Sample ID
062CEF432N	220402901
062CEF436N	220402904
062CEF437N	220402905
062CEF439N	220402906
062CEF4333N	220402907
062CEF4338N	220402908
062DUPQ20249	220402909
062EQBQ20249	220402910

Were ICP interelement corrections applied? Yes/No Yes

Were ICP background corrections applied? Yes/No Yes

If yes - were raw data generated before application of background corrections? Yes/No No

Comments:

230502 1209

Sample Data

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

062CEF432N

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

Lab Code : PEL Case No. SAS No: SDG No.: 2204029

Matrix: WATER Lab Sample ID: 220402901

Level:(low/med) LOW Date Received: 5/10/2002

PercentSolids: 0

CONCENTRATION UNITS: *UG/L*

CAS NO.	ANALYTE	Concentration	C	Q	M
7439-92-1	Lead	4	B		P

Color Before: Clarity Before: Texture :

Color After : Clarity After: Artifacts:

Comments:

230502 1209

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

062CEF436N

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

Lab Code : PEL Case No. SAS No: SDG No.: 2204029

Matrix: WATER Lab Sample ID: 220402904

Level:(low/med) LOW Date Received: 5/10/2002

PercentSolids: 0

CONCENTRATION UNITS: UG/L

CAS NO.	ANALYTE	Concentration	C	Q	M
7439-92-1	Lead	20			P

Color Before: _____ Clarity Before: _____ Texture :_____

Color After : _____ Clarity After: _____ Artifacts:_____

Comments:

230502 1209

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1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

062CEF437N

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

Lab Code : PEL Case No. SAS No: SDG No.: 2204029

Matrix: WATER Lab Sample ID: 220402905

Level:(low/med) LOW Date Received: 5/10/2002

PercentSolids: 0

CONCENTRATION UNITS: UGIL

CAS NO.	ANALYTE	Concentration	C	Q	M
7439-92-1	Lead	4.2	B		P

Color Before: _____ Clarity Before: _____ Texture :_____

Color After : _____ Clarity After: _____ Artifacts:_____

Comments:

230502 1209

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1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

062CEF439N

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

Lab Code : PEL Case No. SAS No: SDG No.: 2204029

Matrix: WATER Lab Sample ID: 220402906

Level:(low/med) LOW Date Received: 5/10/2002

PercentSolids: 0

CONCENTRATION UNITS: UG/L

CAS NO.	ANALYTE	Concentration	C	Q	M
7439-92-1	Lead	10.5			P

Color Before: _____ Clarity Before: _____ Texture :_____

Color After : _____ Clarity After: _____ Artifacts:_____

Comments:

230502 1209

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1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

062CEF4333N

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

Lab Code : PEL Case No. SAS No: SDG No.: 2204029

Matrix: WATER Lab Sample ID: 220402907

Level:(low/med) LOW Date Received: 5/10/2002

PercentSolids: 0

CONCENTRATION UNITS: UG/L

CAS NO.	ANALYTE	Concentration	C	Q	M
7439-92-1	Lead	5	U		P

Color Before: _____ Clarity Before: _____ Texture :_____

Color After : _____ Clarity After: _____ Artifacts:_____

Comments:

230502 1209

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1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

062CEF4338N

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

Lab Code : PEL Case No. SAS No: SDG No.: 2204029

Matrix: WATER Lab Sample ID: 220402908

Level:(low/med) LOW Date Received: 5/10/2002

PercentSolids: 0

CONCENTRATION UNITS: UG/L

CAS NO.	ANALYTE	Concentration	C	Q	M
7439-92-1	Lead	2.5	B		P

Color Before: _____ Clarity Before: _____ Texture :_____

Color After : _____ Clarity After: _____ Artifacts:_____

Comments:

230502 1209

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1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

062DUPQ20249

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

Lab Code: PEL Case No. SAS No: SDG No.: 2204029

Matrix: WATER Lab Sample ID: 220402909

Level:(low/med) LOW Date Received: 5/10/2002

PercentSolids: 0

CONCENTRATION UNITS: UG/L

CAS NO.	ANALYTE	Concentration	C	Q	M
7439-92-1	Lead	18.9			P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

230502 1209

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1

INORGANIC ANALYSIS DATA SHEET

EPA Sample No.

062EQBQ20249

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

Lab Code : PEL Case No. SAS No: SDG No.: 2204029

Matrix: WATER Lab Sample ID: 220402910

Level:(low/med) LOW Date Received: 5/10/2002

PercentSolids: 0

CONCENTRATION UNITS: UG/L

CAS NO.	ANALYTE	Concentration	C	Q	M
7439-92-1	Lead	5	U		P

Color Before: _____ Clarity Before: _____ Texture :_____

Color After : _____ Clarity After: _____ Artifacts:_____

Comments:

230502 1209

QC Summary

230502 1209

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2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

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

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 2204029

Initial Calibration Source: MET-23601

Continuing Calibration Source: MET-23301

Concentration Units: (UG/L)

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R (1)	True	Found	%R (1)	Found	%R (1)	
Lead	400	388.215	97.1	500	488.694	97.7	489.752	98.0	P

(1) Control Limits: Mercury 80-120; Cyanide 85-115; Other Metals 90-110

ICV is Second Source

230502 1210

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2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

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

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 2204029

Initial Calibration Source:

Continuing Calibration Source: MET-23301

Concentration Units: (UG/L)

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R (1)	True	Found	%R (1)	Found	%R (1)	
Lead				500	489.589	97.9			P

(1) Control Limits: Mercury 80-120; Cyanide 85-115; Other Metals 90-110

ICV is Second Source

230502 1210

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3

BLANKS

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

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 2204029

Preparation Blank Matrix (water/soil): WATER

Preparation Blank Concentration Units (ug/L or mg/Kg): UG/L

Analyte	Initial Calib. Blank (UG/L)	C	Continuing Calibration Blank (UG/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Lead	5	U	5	U	5	U	5	U	5	U	P

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4

ICP INTERFERENCE CHECK SAMPLE

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

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 2204029

ICP ID#: ICAP ICSA Source: MET-23103

ICSAB Source: MET-22607

Concentration Units: ug/L

	True		Initial Found			Final Found		
Analyte	Sol. A	Sol. AB	Sol. A	Sol. AB	%R	Sol. A	Sol. AB	%R
Lead	0	50		52.8	105.6			

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5A

SPIKE SAMPLE RECOVERY

EPA Sample No.

062CEF432NMS

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

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 2204029

Matrix: WATER Level:(low/med) LOW

% Solids for Sample: 0

Concentration Units (mg/L or mg/kg): UG/L

Analyte	Control Limit %R	Spiked Sample	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Lead	75 - 125	498		4	B	500	98.8		P

Comments:

230502 1210

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5A

SPIKE SAMPLE RECOVERY

EPA Sample No.

062CEF432NSD

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

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 2204029

Matrix: WATER Level:(low/med) LOW

% Solids for Sample: 0

Concentration Units (mg/L or mg/kg): UG/L

Analyte	Control Limit %R	Spiked Sample	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Lead	75 - 125	496		4	B	500	98.4		P

Comments:

230502 1210

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5B

POST DIGEST SPIKE SAMPLE RECOVERY

EPA Sample No.

062CEF432NA

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

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 2204029

Matrix: WATER Level:(low/med) LOW

Concentration Units (ug/L or mg/kg): ug/L

Analyte	Control Limit %R	Spiked Sample	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Lead	80 - 120	490.00		4.00	B	500	97.2		P

Comments:

230502 1210

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6

DUPLICATES

EPA Sample No.

062CEF432NSD

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

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 2204029

Matrix: WATER Level:(low/med) LOW

% Solids for Sample: 0 % Solids for Duplicate: 0

Concentration Units (mg/L or mg/kg): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Lead	20	498		496		0.4		P

Comments:

230502 1210

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7

LABORATORY CONTROL SAMPLE

EPA Sample No.: 68998LCS

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

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 2204029

Solid LCS Source:

Aqueous LCS Source: MET-18802, MET-15502

	Aqueous (UG/L)			Solid				
Analyte	True	Found	%R	True	Found	C	Limits	%R
Lead	500	490	98.0				-	

230502 1210

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9

ICP SERIAL DILUTIONS

EPA Sample No.

062CEF432NL

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

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 2204029

Matrix: WATER Level:(low/med) LOW

Concentration Units (ug/L or mg/kg): ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Differ-ence	Q	M
Lead	4.00	B	25.00	U			P

Comments:

230502 1210

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10

METHOD DETECTION LIMITS (ANNUALLY)

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

Lab Code : PEL Case No. SAS No: SDG No.: 2204029

ICP ID Number : ICAP Date: 4/1/2002

Furnace AA ID Number :

Analyte	Wave-length (nm)	Back-ground	CRDL (UG/L)	MDL (UG/L)	M
Lead	220.3		5	2	P

Comments:

230502 1210

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11A

INTERELEMENT CORRECTION FACTORS (ANNUALLY)

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

Lab Code: PEL Case No. SAS No.: SDG No.: 2204029

ICP ID Number: ICAP Date: 1/26/2002

Analyte	Wave-length	Interelement Correction Factors for: Al	Ca	Cr	Fe	Mg
Lead	220.3	-0.000023	-0.000014		0.000055	

Comments:

230502 1210

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11B

INTERELEMENT CORRECTION FACTORS (ANNUALLY)

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

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

ICP ID Number : ICAP Date: 1/26/2002

Analyte	Wave-length	Interelement Correction Factors for: Mn	Mo	Sb	V	
Lead	220.3		-0.000814			

Comments:

230502 1210

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ICP LINEAR RANGES (SEMI-ANNUALLY)

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

Lab Code : PEL Case No. SAS No: SDG No.: 2204029

ICP ID NUMBER ICAP DATE : 1/26/2002

Analyte	Integ. Time (sec.)	Concentration ug/L	M
Lead	15	25000	P

Comments:

230502 1210

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PREPARATION LOG

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

Lab Code : PEL Case No. _____ SAS No: _____ SDG No.: 2204029

Method : 6010

EPA Sample No:	Preparation Date	Weight (gram)	Volume (mL)
062CEF432N	10 May 02		50
062CEF432NMS	10 May 02		50
062CEF432NSD	10 May 02		50
062CEF4333N	10 May 02		50
062CEF4338N	10 May 02		50
062CEF436N	10 May 02		50
062CEF437N	10 May 02		50
062CEF439N	10 May 02		50
062DUPQ20249	10 May 02		50
062EQBQ20249	10 May 02		50
68997BLK	10 May 02		50
68998LCS	10 May 02		50

230502 1210

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ANALYSIS RUN LOG

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

Lab Code: PEL Case No. SAS No: SDG No.: 2204029

Instrument ID Number: ICAP Method: P

Start Date: 5/15/2002 End Date: 5/15/2002

EPA Sample No.	D/F	Time	%R	Analytes																												
				AG	AL	AS	BA	BE	CA	CD	CN	CO	CR	CU	FE	HG	K	MG	MN	MO	NA	NI	PB	SB	SE	SN	SR	TI	TL	V	ZN
STD1-B	1	17:03																				X								
STD3	1	17:08																				X								
STD2	1	17:13																												
ICV	1	17:18																				X								
ICB	1	17:23																				X								
ZZZZZZ	1	17:29																												
ICSA	1	17:34																				X								
ICSAB	1	17:40																				X								
CCV	1	17:45																				X								
CCB	1	17:50																				X								
68997BLK	1	17:56																				X								
68998LCS	1	18:01																				X								
062CEF432N	1	18:07																				X								
062CEF432NA	1	18:12																				X								
062CEF432NMS	1	18:18																				X								
062CEF432NSD	1	18:23																				X								
062CEF432NL	5	18:28																				X								
062CEF436N	1	18:34																				X								
062CEF437N	1	18:39																				X								
062CEF439N	1	18:45																				X								
CCV	1	18:50																				X								
CCB	1	18:56																				X								
062CEF4333N	1	19:01																				X								
062CEF4338N	1	19:06																				X								
062DUPQ20249	1	19:12																				X								
062EQBQ20249	1	19:17																				X								
ZZZZZZ	1	19:23																												
ZZZZZZ	5	19:28																												
ZZZZZZ	1	19:33																												
ZZZZZZ	1	19:39																												
ZZZZZZ	1	19:44																												
ZZZZZZ	1	19:50																												
CCV	1	19:55																				X								
CCB	1	20:01																				X								

230502 1210

Chain of Custody Documentation

230502 1210

H2M Hill Constructors, Inc.
5 Perimeter Center Place, Suite 700
lanta, GA 30346-1278
l No (770) 604-9182 ; Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

2204-029 C NUMBER

163151-042 Page 1 of 1

OJECT 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 uth Fuel Farm	163151	PEL / Darcy Wiseman	Bill Canelos / J.A Jones Env. Services	6219 Authority Ave. Jacksonville, FL 32222 (904) 7774812,FAX: (904) 7774262
OJECT 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.):
uth Fuel Farm nual GW Sampling Event	0062	2712	Christelle Newsome / CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 Ext.561 FAX:604-9282
OJECT 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.):
l Canelos	Ph:(904)777-4812 Fax:(904) 777-4262	Ph: (813)247-2805 Fax: (813)248-1537		

M	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	ANALYSES REQUIRED (Include Method Numbers): TVOH by 601, BTEX & MTBE by 602	PAHs by 610	Lead by 6010B	TRPH by FL-PRO	SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
	062-CEF43-2N-Q2-02-49	CEF-043-2N	W	05/09/02	15:05	III/C	14	9	6	3	6	Grab	MS/MSD	01,02,03
	062-CEF43-6N-Q2-02-49	CEF-043-6N	W	05/09/02	11:40	III/C	14	3	2	1	2	Grab		04
	062-CEF43-7N-Q2-02-49	CEF-043-7N	W	05/09/02	13:40	III/C	14	3	2	1	2	Grab		05
	062-CEF43-9N-Q2-02-49	CEF-043-9N	W	05/09/02	14:20	III/C	14	3	2	1	2	Grab		06
	062-CEF43-33N-Q2-02-49	CEF-043-33N	W	05/09/02	16:30	III/C	14	3	2	1	2	Grab		07
	062-CEF43-38N-Q2-02-49	CEF-043-38N	W	05/09/02	15:50	III/C	14	3 (W)	2	1	2	Grab	# 1 of 3 vials broken in transit (WL) 5/10/02	08
	062-DUP-Q2-02-49	Duplicate	W	05/09/02	NA	III/C	14	3	2	1	2	Grab		09
	062-EQB-Q2-02-49	Equipment Blank	W	05/09/02	13:00	III/C	14	3	2	1	2	Grab		10
	062-TB-Q2-02-49	Trip Blank	W	NA	NA	III/C	14	3				Grab		11
	Temp Blank	Temp Blank	W	NA	NA	III/C	14				6		Extra 1L amber recd for all 610 + Pro's	

ER(S) AND COMPANY: (please print)	COURIER AND SHIPPING NUMBER:	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:
Dumaop / Sean Smith nes Environmental Services	Federal Express TRK #791834380621, 791834880687, 792031435185, 791934880724, 792031435255, 790412700398. (6 Coolers)	Temp upon rect 4°C pH<2 (Pro, Metals, 8021)

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
ame and Signature:			Printed Name and Signature:		
p	5/9/02	17:30	Federal Express	5/9/02	17:30
me and Signature:			Printed Name and Signature: Keith W. Brenner		
me and Signature: 05/10/02			Printed Name and Signature:	05/10/02	10:10

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

Form CC1001, Rev 02/00

PEL LABS SAMPLE LOG IN SHEET

Project # 2204-029

Client Information

Client: CH2M Hill	Date Rec'd: 5/10/02
Project: Cecil Field CTO 062	Due Date: 5/20/02 (ME)
Log In Tech: ME	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)	4C		Samples Rec'd W/I Hold Time?	✓	
pH Verified?	✓		Are All Samples to be Analyzed?	✓	
pH WNL?	✓		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 Faxed 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# 2204-029 By MK

Client/Project CH2MHill / Cecil Field CTO_062 Date 5/10/02

PEL Sample Number	H2SO4 pH<2	HNO3 pH<2	NaOH pH>12	ZnAC/NaOH pH>9	HCL pH<2	Other _____ pH _____
2204-029-01	(2) pH<2	(1) pH<2			(3) pH<2	
-02						
-03						
-04						
-05						
-06						
-07						
-08					(2) pH<2	
-09					(3) pH<2	
-10	↓	↓				
-11	—	—			↓	

60

Cham Hill / Cecil Field CTO 062 2204-029

Sample #	Parameter	Rel'd	Rec'd	Date	Time
1-11	8021(w)	~	MWJ	5/17/02	9:04
1-11	8021(w)	MWJ	~	5/12/02	14:40
1-10	610(w)	~	AK	5/14/02	810
1-10	610(w)	Consumed			
1-10	Lead(w)	~	AK	5/10/2	1800
1-10	Lead (w)	AK	~	5/10/2	1830
1-10	Pro(w)	~	AK	5/15/02	10:30
1-10	Pro(w)		Consumed		
	Re-Extracts2				
1-10	Pro(w)	~	AK	5/15/02	900
1-10	Pro(w)		Consumed		
1-3	8021	~	MWJ	5/21/02	10:41
1-3	8021	MWJ	~	5/21/02	16:01

Addendum

Letter of Acceptance

Customer Name:	CH2M HILL
Date & Time Received:	5-10-02; 10:10 AM
Date to be Reported:	5-24-02
Laboratory Submission Number/SDG:	2204029
Project:	NAS Cecil Field

Samples: The submission consisted of 11 samples with sample identification shown in the attached data tables.

Tests: The samples will be analyzed for EPA methods: 601, 602, 610, 6010, and FLPRO.

Sample Custody/COC discrepancies:
None.

Notes: Due to the number of characters in the sample identifier, PEL has truncated the ID's.

Distribution of Report to:

1-CH2MHILL
Attn: Jennifer Zimmerman
Phone: 904-777-4262

2-CH2MHILL
Attn: Tatiana Romanova
Phone: 770-604-9182

Respectfully Submitted,

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 not necessarily indicative of the qualities of apparently identical or similar materials.

Log-in Report

Level: 4

Total of: 41 analyses on 11 samples (including QC) *13-May-02*

Report/SDG #: 2204029

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
062CEF432N	220402901	CEF-043-2N	W	5/9/02 3:05:00 PM	5/10/02 10:10:00 AM
Method					
6010	Metals			6010	
610	PAH			610	
601/602	VOH			601/602	
FL-PRO	Petroleum Hydrocarbons			FL-PRO	

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
062CEF432NMS	220402902	CEF-043-2N	WQ	5/9/02 3:05:00 PM	5/10/02 10:10:00 AM
Method					
6010	Metals			6010	
610	PAH			610	
601/602	VOH			601/602	
FL-PRO	Petroleum Hydrocarbons			FL-PRO	

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
062CEF432NSD	220402903	CEF-043-2N	WQ	5/9/02 3:05:00 PM	5/10/02 10:10:00 AM
Method					
6010	Metals			6010	
610	PAH			610	
601/602	VOH			601/602	
FL-PRO	Petroleum Hydrocarbons			FL-PRO	

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
062CEF436N	220402904	CEF-043-6N	W	5/9/02 11:40:00 AM	5/10/02 10:10:00 AM
Method					
6010	Metals			6010	
610	PAH			610	
601/602	VOH			601/602	
FL-PRO	Petroleum Hydrocarbons			FL-PRO	

1

Report/SDG #: 2204029

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
062CEF437N	220402905	CEF-043-7N	W	5/9/02 1:40:00 PM	5/10/02 10:10:00 AM

Method		
6010	Metals	6010
610	PAH	610
601/602	VOH	601/602
FL-PRO	Petroleum Hydrocarbons	FL-PRO

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
062CEF439N	220402906	CEF-043-9N	W	5/9/02 2:20:00 PM	5/10/02 10:10:00 AM

Method		
6010	Metals	6010
610	PAH	610
601/602	VOH	601/602
FL-PRO	Petroleum Hydrocarbons	FL-PRO

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
062CEF4333N	220402907	CEF-043-33N	W	5/9/02 4:30:00 PM	5/10/02 10:10:00 AM

Method		
6010	Metals	6010
610	PAH	610
601/602	VOH	601/602
FL-PRO	Petroleum Hydrocarbons	FL-PRO

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
062CEF4338N	220402908	CEF-043-38N	W	5/9/02 3:50:00 PM	5/10/02 10:10:00 AM

Method		
6010	Metals	6010
610	PAH	610
601/602	VOH	601/602
FL-PRO	Petroleum Hydrocarbons	FL-PRO

Report/SDG #: 2204029

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
062DUPQ20249	220402909	Duplicate	W	5/9/02	5/10/02 10:10:00 AM

Method		
6010	Metals	6010
610	PAH	610
601/602	VOH	601/602
FL-PRO	Petroleum Hydrocarbons	FL-PRO

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
062EQBQ20249	220402910	Equipment	WQ	5/9/02 1:00:00 PM	5/10/02 10:10:00 AM

Method		
6010	Metals	6010
610	PAH	610
601/602	VOH	601/602
FL-PRO	Petroleum Hydrocarbons	FL-PRO

SampleID	LAB ID	StationID	Matrix	SampleDate	ReceiveDate
062TBQ20249	220402911	Trip Blank	WQ	5/10/02	5/10/02 10:10:00 AM

Method		
601/602	VOH	601/602

PEL LABS SAMPLE LOG IN SHEET

Project # 2204-029

Client Information

Client: CH2M Hill	Date Rec'd: 5/10/02
Project: Cecil Field CTO 062	Due Date: 5/20/02 (ML)
Log In Tech: ML	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)	4C		Samples Rec'd W/I Hold Time?	✓	
pH Verified?	✓		Are All Samples to be Analyzed?	✓	
pH WNL?	✓		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 Faxed 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 #:

H2M Hill Constructors, Inc.
Perimeter Center Place, Suite 700
nta, GA 30346-1278
No (770) 604-9182 ; Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

2204-029

COC NUMBER: 163151-042 Page 1 of

JECT 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.):
.S. Cecil Field ith Fuel Farm	163151	PEL / Darcy Wiseman	Bill Canelos / J.A Jones Env. Services	6219 Authority Ave. Jacksonville, FL 32222 (904) 7774812,FAX: (904) 7774262
JECT 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.):
th Fuel Farm ual GW Sampling Event	0062	2712	Christelle Newsome / CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30: (770)604-9182 Ext.561 FAX:604-9282
JECT CONTACT:	PROJECT TEL NO AND FAX NO:	LAB TEL NO / ND FAX NO:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No., and Fax No.):
Canelos	Ph:(904)777-4812 Fax:(904) 777-4262	Ph: (813)247-2805 Fax: (813)248-1537		

	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (See codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (See codes on back)	TAT (calendar days)	ANALYSES REQUIRED (Include Method Numbers): TVOH by 601, BTEX & MTBE by 602	PAHs by 610	Lead by 6010B	TRPH by FL-PRO							SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
	062-CEF43-2N-Q2-02-49	CEF-043-2N	W	05/09/02	15:05	III/C	14	9	6	3	6							Grab	MS/MSD	01,02,0
	062-CEF43-6N-Q2-02-49	CEF-043-6N	W	05/09/02	11:40	III/C	14	3	2	1	2							Grab		04
	062-CEF43-7N-Q2-02-49	CEF-043-7N	W	05/09/02	13:40	III/C	14	3	2	1	2							Grab		05
	062-CEF43-9N-Q2-02-49	CEF-043-9N	W	05/09/02	14:20	III/C	14	3	2	1	2							Grab		06
	062-CEF43-33N-Q2-02-49	CEF-043-33N	W	05/09/02	16:30	III/C	14	3	2	1	2							Grab		07
	062-CEF43-38N-Q2-02-49	CEF-043-38N	W	05/09/02	15:50	III/C	14	3	2	1	2	# 1 of 3 vials broken in transit						Grab	5/10/02	08
	062-DUP-Q2-02-49	Duplicate	W	05/09/02	NA	III/C	14	3	2	1	2							Grab		09
	062-EQB-Q2-02-49	Equipment Blank	W	05/09/02	13:00	III/C	14	3	2	1	2							Grab		10
	062-TB-Q2-02-49	Trip Blank	W	NA	NA	III/C	14	3										Grab		11
	Temp Blank	Temp Blank	W	NA	NA	III/C	14					6						Extra 1L amber recd for all 610 + Pro's		

ER(S) AND COMPANY: (please print)
' Dumaop / Sean Smith
)nes Environmental Services

COURIER AND SHIPPING NUMBER:
Federal Express TRK #791834880621, 791834880687, 792031435185, 791934880724, 792031435255, 790412700398. (6 Coolers)

SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:
Temp upon rect 4°C
pH<2 (Pro, Metals, 8021)

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
ame and Signature:			Printed Name and Signature:		
)p	5/9/02	17:30	Federal Express	5/9/02	17:30
ame and Signature:			Printed Name and Signature: Keith W Brenner		
Keith Brenner IPEC	05		Keith W Brenner IPEC	05/10/02	10:10
ame and Signature: Keith Brenner 05/10/02			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

172

2204-029
Raw Data
GC Volatile Organics
(Method 601/602)

42

VGC2 8021 V2051602 5/16/02 MWJ

IS 6137
SUCR 6135, 6136 low
CCV 6097, 6098 low
QC 6009, 6010

8 CCV NEW
8 500 PPT
9 1 PPB
10 2 PPB
11 5 PPB
12 10 PPB
13 20 PPB
14 40 PPB
15 5 PPB R
16 20 PPB R
1 30 PPB R
2 50 PPB
3 100 PPB
4 SEC 21
5 SEC 22
6 SEC 23

5/16/02

VGC2 8021 V2051702 5/17/02 MWJ

6 CCV21 ✓
7 CCV22
7 LCS21
7 BLK21
7 2204029 -11
7 -10
7 -1
8 -2 S
9 -3 D
10 -4
11 -5
12 CCV23 ✓
16 2204029 -10R
1 -7
2 -8
3 -9
4 -6
5 2204013 -7
6 -6
7 -4
8 -5
9 CCV24 ✓
10 CCV25
11 CCV26
12 CCV27
13 CCV28
14 CBLK
15 CBLK

IS 6137
SURR 6135
CCV 6097
QC 6009, 6010

VOS#	Date Prep.	By	Description	Origin/Lot #	Date Rec'd	Dilutent/Lot #	Amt. for Dil.	Final Vol.	Final Conc.	Discarded	
6129 A-D	4/8/02	KM	Cat.#30225 Bromochloromethane Standard Lot# A019960 Expires:6/04 Storage:Freezer 2000 ug/ml in purge and trap methanol FOR LABORATORY USE ONLY Restek Corporation • 110 Benner Circle • Bellefonte, PA 16823		Rec'd 4/8/02			—	2000 ug/ml		
6130 A-D	4/8/02	KM	Cat.#30030 Fluorobenzene Mix Lot# A019571 Expires:5/04 Storage:Freezer 2000 ug/ml in purge and trap methanol FOR LABORATORY USE ONLY Restek Corporation • 110 Benner Circle • Bellefonte, PA 16823		Rec'd 4/8/02			-	2000 ug/ml		
6131	4/16/02	MST	8260 SURR	V05974D	11/2/01	MeOH B&J Brand *CE113	1.0 ml	100 ml	25 ug/ml ~~250 ug/ml~~ MST 4/16/02		
6132	4/16/02	MST	TCE NEAT (99.5%)	258-64A	4/12/02	—	5g	—	NEAT	—	exp 02/05
6133	4/16/02	MST	TCE	6132	4/12/02	MeOH B&J CE113	.1000g	10 ml	10,000 ppm	—	exp. 10/16/02
6134	4/16/02	MST	TCE	6133	4/12/02	MeOH B&J CE113	50 ml	10 ml	50 ppm		
6135	4/17/02	MWJ	8021 SURR	6068B - BFB 6067A - 140CB	-	MeOH B+J CE113	1.0 mL Each	100 mL	20 ug/mL		
6136	4/18/02	MWJ	8021 LOW SURR	6135	—	MeOH B+J CE113	5000	10 mL	1 ug/mL		
6137	4/18/02	MWJ	8021 IS	5983-D BCM 6120 B Fluorobenz		MeOH B+J CE113	1.5 mL Each	100 mL	30 ug/ml		
6138	4/19/02	[illegible]	ECS P 8260 [illegible]	5241MM12					2000 ppm		

[illegible]		[illegible]	Cal mix	[illegible]		CE113	each			
6090	3/4/02	LM	8260 CAL VA, MTBE IM, CS_2	6074		MeOH B+J CE113	1.25mL each	50mL	~~100~~ 50 µg/mL	
6091	3/4/02	LM	8260 ALL CAL Mix	6073-9 6011C 6036A		MeOH B+J CE113	6075/6076 100mL each All others 250µl each	10mL	Ketones Acr/ 100µg/mL All others 50µg/mL LM	
6092	3/5/02	LM	8260 Sever	5974C	11/2/01	MeOH B+J CE113	1.0mL	100mL	250µg/mL	
6093 A-C	3/12/02	LM								
6094	3/13/02	LM	8260 main QC	6081, 6080 6084, 6085 6086		MeOH B+J CE1113	1.25mL each	50mL	50µg/mL APA - various	
6095	3/13/02	LM	8260 Ket/ Acrol QC	6082 6083		MeOH B+J CE1113	.500µL each	50mL	100µg/mL	
6096	3/13/02	LM	8260 Gases QC	5736C 5713A		MeOH B+J CE1113	1.25mL each	50mL	50µg/mL	
6097	3/18/02	LM	8021 Cal mix	5816C 6033A 6036C 6035A 5815C 6034B 5817C 6033 6030A		MeOH B+J CE1113	500µl each	100mL	10µg/mL	
6098	3/18/02	LM	8021 low cal mix	6097		MeOH B+J CE1113	2.5mL	25mL	1µg/mL	

AccuStandard, Inc. 125 Market Street • New Haven, CT 06513 Phone 800-442-5290 • 203-786-5290

1 mL

M-502-11-10X
Chlorobenzene
2.0 mg/mL in MeOH
Lot: B1080111
Exp. Mar 5,2005

POISON

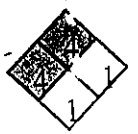
FOR LABORATORY USE ONLY

STORAGE AMBIENT

[redacted]/ola[redacted]Orga[redacted]Sta[redacted]ds [redacted]

VOS#	Date Prep.	By	Description	Origin/Lot #	Date Rec'd	Dilutent/Lot #	Amt. for Dil.	Final Vol.	Final Conc.	Discarded
6010	12/7/01	LM	8021 main QC	5738C 5714C 5734C 5730D	—	B+J MeOH CC019	500µl each	100mL	10 ~~ug~~ ug/mL	
6011 A,B,C,D	12/7/01	KM	502.2 Cal Mix 1 gases	Restek AC20632	12/7/01	—	—	—	2000ug/mL	A 12/12/01 LM B 12/20/01 LM C 3/1/02 LM D 1/28/02 LM
6012 A,B	12/7/01	KM	Freon 13 1,1,2TCTFM	Restek AO20808	12/7/01	—	—	—	2000ug/mL	A 12/12/01 LM B 12/20/01 LM
6013	12/10/01	TS	8021 LOW SURROGATE	VOS#5948	—	MEOH B+J CC019	500ul	10ML	1ug/ML	
6014	12/11/01	LM	OA-1 IOWA CAL MIX BTEX	5556D	—	MeOH B+J CC019	100µl	10mL	2 ug/mL	
6015	12/12/01	LM	OA-1 Iowa Cal mix MTBE	5823C	—	MeOH B+J CC019	100µl	10mL	2ug/mL	
6016	12/12/01	LM	8021 H2O Cal Mix	6012A 5814B ~~5814B~~ LM 5817A 5823B 5816A 5822C 5815A 5821B 6011A	—	MeOH B+J CC019	50µl	1.25ml	50 ug/ml	
6017 A-E	12/18/01	LM								A 12/18/01 LM
6018	12/18/01	LM	8260 IS	6017A	—	MeOH B+J CC019	1mL	100ml	250µl/ml	
6019	12/19/01	LM	8260 surr	5974A	—	MeOH B+J CC019	1mL	100mL	250µl/mL	

Cat#57848 Custom 8206A Internal Standard Mix
Lot#A021750 Made 12/01 Expires 12/04 Store: Freezer
25,000 ug/ml in purge and trap methanol
FOR LABORATORY USE ONLY
Restek Corporation • 110 Benner Circle • Bellefonte, PA 16823



VOS#	Date Prep.	By	Description	Origin/Lot #	Date Rec'd	Dilutent/Lot #	Amt. for Dil.	Final Vol.	Final Conc.	Discarded
6000	12/2/01	JL	Ec 3 Ketones 2°	PLKET015S	12/2/01	–		–	10,000 ppm	12/5/01 QL
6001	12/4/01	JL	8260 CAL (MAIN) MIX	5987 5989 5990 5991		MeOH B&J CC019	.25mL EA	50mL	50ug/mL Ap 1 various	
6002	12/4/01	JL	8260 GAS CAL	5959A-C 5940 B			1.25mL EA.	50mL	50ug/mL	
6003	12/4/01	JL	8260 Ketone Cal Mix	5992 5993			500mL EA	50mL	100ug/mL	
6004	12/4/01	JL	8260 VA, MTBE IM, CS2 CAL MIX	5988			1.25mL	50mL	50ug/mL	
6005	12/5/01	JL	8260 Main QC	5994, 5995 5997, 5998 5999		MeOH B&J CC019	500uL EA.	50uL	20ug/mL AP9-VARIOUS	
6006	12/5/01	JL	8260 Ketones/ Acrol. QC	5996, 6000,			.250uL EA.	50uL	50ug/mL	
6007	12/5/01	JL	8260 Gases QC	5662C 5624C			500uL EA.	50uL	20ug/mL	
6008	12/7/01	LM	high level spike 8021	5714C 5736A 5713B 5734C 5737D 5738C	–	MeOH B+J CC019	.250uL each	100mL	5ug/ml	
6009	12/7/01	LM	8021 GAS QC	5713B 5736A	–	MeOH B+J CC019	500ul each	100ml	10ug/ml	

PEL Laboratories, Inc.

Data file : \\Kholley\EE\chem\vgc2.i\V2051602.b\1PPB.D
Lab Smp Id: 1PPB Client Smp ID: 1PPB
Inj Date : 16-MAY-2002 10:10
Operator : Inst ID: vgc2.i
Smp Info : 1PPB
Misc Info :
Comment :
Method : \\KHOLLEY\EE\chem\vgc2.i\V2051602.b\8021.m
Meth Date : 23-May-2002 09:34 lpelo Quant Type: ISTD
Cal Date : 16-MAY-2002 17:50 Cal File: 100PPB.D
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.04
Processing Host: FILES

Concentration Formula: Amt * DF * Vf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
1	dichlorodifluoromethane	AIB1A	4.743	4.743	(0.370)	62068	1.00000	0.66(a)
2	chloromethane	AIB1A	5.253	5.253	(0.410)	56758	1.00000	1.1
3	vinyl chloride	AIB1A	5.536	5.536	(0.432)	74441	1.00000	0.74(a)
4	bromomethane	AIB1A	6.543	6.543	(0.510)	32496	1.00000	0.46(a)
5	chloroethane	AIB1A	6.723	6.723	(0.524)	122613	1.00000	0.80(a)
6	trichlorofluoromethane	AIB1A	7.220	7.220	(0.563)	102359	1.00000	0.85(a)
7	1,2,2-Trichlorotrifluoroethan	AIB1A	8.150	8.150	(0.636)	135406	1.00000	0.91
8	1,1-dichloroethene	AIB1A	8.503	8.503	(0.663)	218105	1.00000	0.94(a)
9	methylene chloride	AIB1A	9.383	9.383	(0.732)	356094	1.00000	1.3(a)
10	MTBE	FID2B	9.703	9.703	(0.661)	14056	1.00000	0.77(aM)
11	trans 1,2-dichloroethene	AIB1A	10.006	10.006	(0.781)	246515	1.00000	1.0
M 12	1,2-Dichloroethene (tot)	AIB1A				487615	2.00000	2.1
13	1,1-dichloroethane	AIB1A	10.860	10.860	(0.847)	235582	1.00000	1.0
14	cis-1,2-dichloroethene	AIB1A	12.130	12.130	(0.946)	241100	1.00000	1.1
15	chloroform	AIB1A	12.460	12.460	(0.972)	325652	1.00000	1.1
* 16	Bromochloromethane	AIB1A	12.820	12.820	(1.000)	5394186	30.0000	
17	1,1,1-trichloroethane	AIB1A	13.336	13.336	(1.040)	276173	1.00000	1.1

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
	18 carbon tetrachloride	AIB1A	13.923	13.923	(1.086)	325008	1.00000	1.1
	19 1,2-dichloroethane	AIB1A	14.193	14.193	(1.107)	249544	1.00000	1.1
	20 Benzene	FID2B	14.256	14.256	(0.971)	57704	1.00000	1.1
*	21 Fluorobenzene	FID2B	14.686	14.686	(1.000)	1120414	30.0000	
	22 trichloroethene	AIB1A	15.633	15.633	(1.219)	312182	1.00000	1.2
	23 1,2-dichloropropane	AIB1A	16.050	16.050	(1.252)	220727	1.00000	1.1
	24 bromodichloromethane	AIB1A	16.653	16.653	(1.299)	190018	1.00000	0.98(a)
	25 cis-1,3-dichloropropene	AIB1A	18.156	18.156	(1.416)	193897	1.00000	0.99(a)
	26 Toluene	FID2B	19.246	19.246	(1.310)	56429	1.00000	1.1
	27 trans-1,3-dichloropropene	AIB1A	19.823	19.823	(1.546)	167079	1.00000	0.98(a)
	28 1,1,2-trichlorethane	AIB1A	20.436	20.436	(1.594)	212539	1.00000	1.0
	29 tetrachloroethene	AIB1A	21.846	21.846	(1.704)	321103	1.00000	1.1
	30 dibromochloromethane	AIB1A	22.676	22.676	(1.769)	113176	1.00000	0.83(a)
	31 chlorobenzene	AIB1A	25.186	25.186	(1.965)	99896	1.00000	0.98(a)
	32 Ethylbenzene	FID2B	25.366	25.366	(1.727)	49027	1.00000	1.1
	33 m,p-xylene	FID2B	25.656	25.656	(1.747)	105662	2.00000	2.1
M	34 Xylene (tot)	FID2B				150267	3.00000	3.2
	35 o-xylene	FID2B	27.210	27.210	(1.853)	44605	1.00000	1.1
	36 bromoform	AIB1A	28.446	28.446	(2.219)	63825	1.00000	0.77(a)
$	37 1,4-dichlorobutane	AIB1A	28.736	28.736	(2.242)	144489	1.00000	1.1
	38 1,1,2,2-tetrachloroethane	AIB1A	28.986	28.986	(2.261)	136416	1.00000	0.94(a)
$	39 4-bromofluorobenzene	FID2B	29.220	29.220	(1.990)	48311	1.00000	1.1
	40 1,3-dichlorobenzene	AIB1A	31.490	31.490	(2.456)	133224	1.00000	1.0
	41 1,4-dichlorobenzene	AIB1A	31.660	31.660	(2.470)	138150	1.00000	1.0
	42 1,2-dichlorobenzene	AIB1A	32.240	32.240	(2.515)	121324	1.00000	1.00

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

PEL Laboratories, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vgc2.i
Lab File ID: 1PPB.D
Lab Smp Id: 1PPB
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\KHOLLEY\EE\chem\vgc2.i\V2051602.b\8021.m
Misc Info:

Calibration Date: 16-MAY-2002
Calibration Time: 16:29
Client Smp ID: 1PPB
Level: LOW
Sample Type: WATER

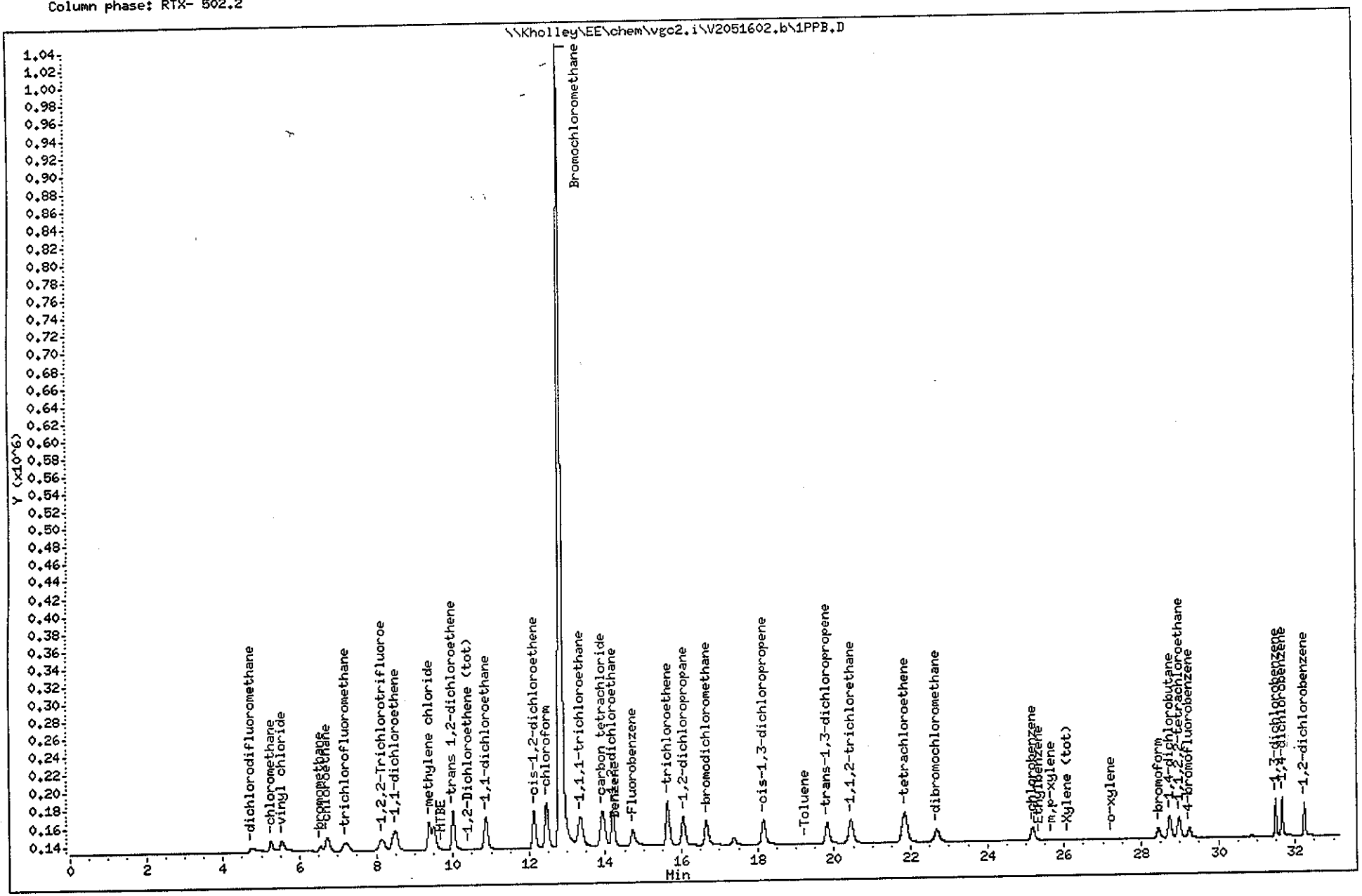
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	6556499	3278250	13112998	5394186	-17.73
21 Fluorobenzene	1217117	608559	2434234	1120414	-7.95

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	12.84	12.34	13.34	12.82	-0.16
21 Fluorobenzene	14.71	14.21	15.21	14.69	-0.14

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\Kholley\EE\chem\vgc2.i\V2051602.b\1PPB.D
Date : 16-MAY-2002 10:10
Client ID: 1PPB
Sample Info: 1PPB
Purge Volume: 5.0
Column phase: RTX- 502.2

Instrument: vgc2.i
Operator:
Column diameter: 0.53



PEL Laboratories, Inc.

Data file : \\Kholley\EE\chem\vgc2.i\V2051602.b\2PPB.D
Lab Smp Id: 2PPB Client Smp ID: 2PPB
Inj Date : 16-MAY-2002 10:50
Operator : Inst ID: vgc2.i
Smp Info : 2PPB
Misc Info :
Comment :
Method : \\KHOLLEY\EE\chem\vgc2.i\V2051602.b\8021.m
Meth Date : 23-May-2002 09:35 lpelo Quant Type: ISTD
Cal Date : 16-MAY-2002 17:50 Cal File: 100PPB.D
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.04
Processing Host: FILES

Concentration Formula: Amt * DF * Vf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
1	dichlorodifluoromethane	AIB1A	4.733	4.733	(0.369)	118675	2.00000	1.1
2	chloromethane	AIB1A	5.256	5.256	(0.410)	100033	2.00000	1.7
3	vinyl chloride	AIB1A	5.533	5.533	(0.431)	181578	2.00000	1.6
4	bromomethane	AIB1A	6.546	6.546	(0.510)	110032	2.00000	1.4
5	chloroethane	AIB1A	6.740	6.740	(0.525)	276398	2.00000	1.6
6	trichlorofluoromethane	AIB1A	7.223	7.223	(0.563)	213263	2.00000	1.5
7	1,2,2-Trichlorotrifluoroethan	AIB1A	8.156	8.156	(0.636)	297695	2.00000	1.7
8	1,1-dichloroethene	AIB1A	8.516	8.516	(0.664)	466276	2.00000	1.7
9	methylene chloride	AIB1A	9.396	9.396	(0.732)	671643	2.00000	2.2
10	MTBE	FID2B	9.680	9.680	(0.659)	34413	2.00000	1.7
11	trans 1,2-dichloroethene	AIB1A	10.020	10.020	(0.781)	498179	2.00000	1.8
M 12	1,2-Dichloroethene (tot)	AIB1A				1001714	4.00000	3.8
13	1,1-dichloroethane	AIB1A	10.873	10.873	(0.847)	498533	2.00000	1.9
14	cis-1,2-dichloroethene	AIB1A	12.140	12.140	(0.946)	503535	2.00000	1.9
15	chloroform	AIB1A	12.470	12.470	(0.972)	667276	2.00000	2.0
* 16	Bromochloromethane	AIB1A	12.833	12.833	(1.000)	6247792	30.0000	
17	1,1,1-trichloroethane	AIB1A	13.353	13.353	(1.041)	600478	2.00000	2.0

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
	18 carbon tetrachloride	AIB1A	13.933	13.933	(1.086)	655051	2.00000	1.9
	19 1,2-dichloroethane	AIB1A	14.206	14.206	(1.107)	502656	2.00000	1.9
	20 Benzene	FID2B	14.266	14.266	(0.971)	114513	2.00000	1.9
*	21 Fluorobenzene	FID2B	14.696	14.696	(1.000)	1249613	30.0000	
	22 trichloroethene	AIB1A	15.653	15.653	(1.220)	621969	2.00000	2.0
	23 1,2-dichloropropane	AIB1A	16.060	16.060	(1.251)	459704	2.00000	1.9
	24 bromodichloromethane	AIB1A	16.663	16.663	(1.298)	418463	2.00000	1.9
	25 cis-1,3-dichloropropene	AIB1A	18.166	18.166	(1.416)	440720	2.00000	1.9
	26 Toluene	FID2B	19.260	19.260	(1.311)	108076	2.00000	1.9
	27 trans-1,3-dichloropropene	AIB1A	19.836	19.836	(1.546)	358087	2.00000	1.8
	28 1,1,2-trichlorethane	AIB1A	20.453	20.453	(1.594)	449766	2.00000	1.8
	29 tetrachloroethene	AIB1A	21.866	21.866	(1.704)	672697	2.00000	2.0
	30 dibromochloromethane	AIB1A	22.700	22.700	(1.769)	275790	2.00000	1.7
	31 chlorobenzene	AIB1A	25.196	25.196	(1.963)	215725	2.00000	1.8
	32 Ethylbenzene	FID2B	25.373	25.373	(1.726)	99233	2.00000	2.0
	33 m,p-xylene	FID2B	25.670	25.670	(1.747)	217581	4.00000	3.9
M	34 Xylene (tot)	FID2B				308153	6.00000	5.8
	35 o-xylene	FID2B	27.223	27.223	(1.852)	90572	2.00000	1.9
	36 bromoform	AIB1A	28.456	28.456	(2.217)	156904	2.00000	1.6
$	37 1,4-dichlorobutane	AIB1A	28.746	28.746	(2.240)	299677	2.00000	1.9
	38 1,1,2,2-tetrachloroethane	AIB1A	28.990	28.990	(2.259)	316463	2.00000	1.9
$	39 4-bromofluorobenzene	FID2B	29.230	29.230	(1.989)	92564	2.00000	1.8
	40 1,3-dichlorobenzene	AIB1A	31.493	31.493	(2.454)	289987	2.00000	2.0
	41 1,4-dichlorobenzene	AIB1A	31.663	31.663	(2.467)	305638	2.00000	1.9
	42 1,2-dichlorobenzene	AIB1A	32.243	32.243	(2.512)	270081	2.00000	1.9

PEL Laboratories, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vgc2.i
Lab File ID: 2PPB.D
Lab Smp Id: 2PPB
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\KHOLLEY\EE\chem\vgc2.i\V2051602.b\8021.m
Misc Info:

Calibration Date: 16-MAY-2002
Calibration Time: 16:29
Client Smp ID: 2PPB
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	6556499	3278250	13112998	6247792	-4.71
21 Fluorobenzene	1217117	608559	2434234	1249613	2.67

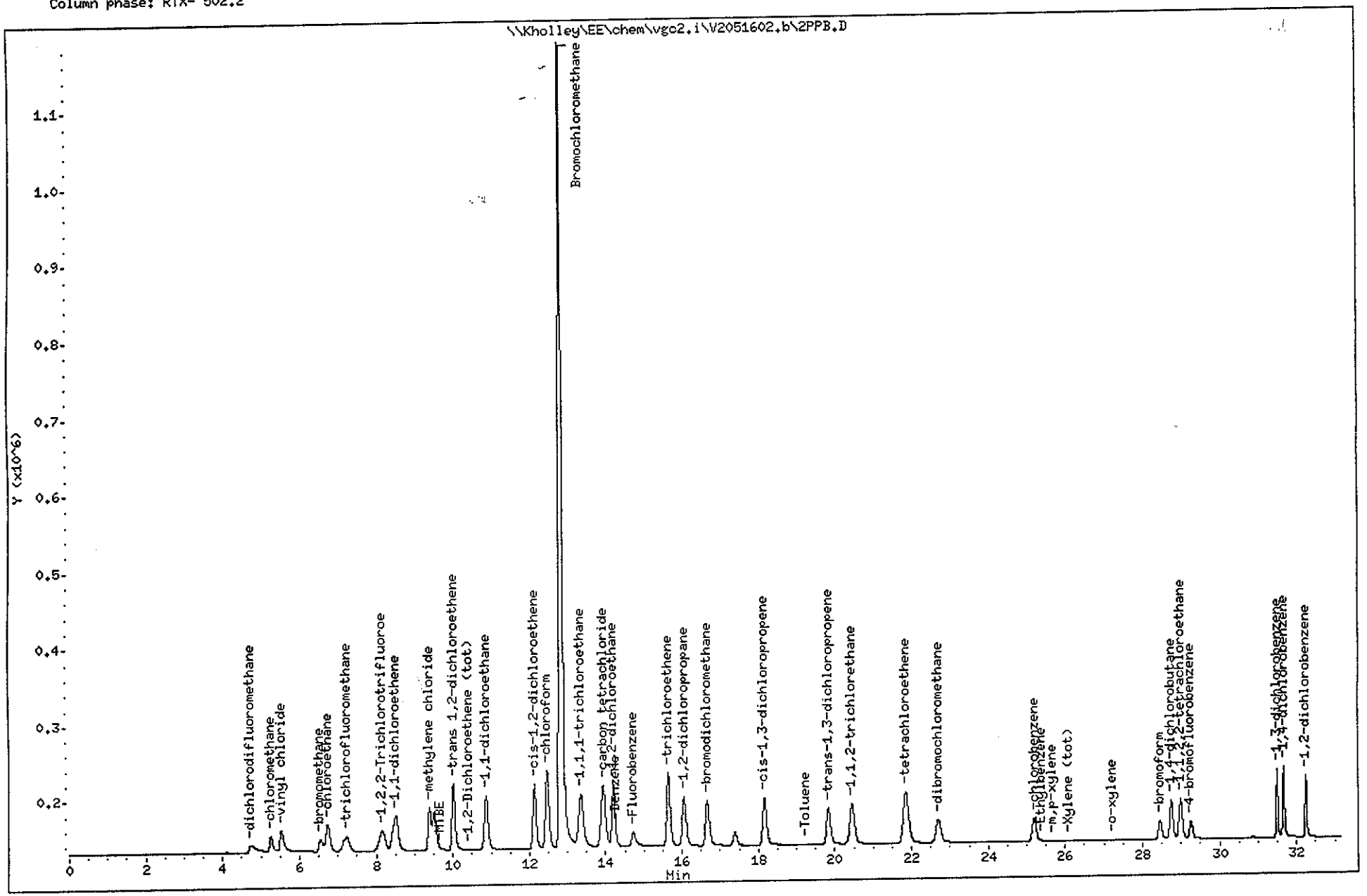
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	12.84	12.34	13.34	12.83	-0.05
21 Fluorobenzene	14.71	14.21	15.21	14.70	-0.07

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\Kholley\EE\chem\vgc2.i\V2051602.b\2PPB.D
Date : 16-MAY-2002 10:50
Client ID: 2PPB
Sample Info: 2PPB
Purge Volume: 5.0
Column phase: RTX- 502.2

Instrument: vgc2.i

Operator:
Column diameter: 0.53



PEL Laboratories, Inc.

Data file : \\Kholley\EE\chem\vgc2.i\V2051602.b\5PPBR.D
Lab Smp Id: 5PPB Client Smp ID: 5PPB
Inj Date : 16-MAY-2002 15:07
Operator : Inst ID: vgc2.i
Smp Info : 5PPB
Misc Info :
Comment :
Method : \\KHOLLEY\EE\chem\vgc2.i\V2051602.b\8021.m
Meth Date : 23-May-2002 09:35 lpelo Quant Type: ISTD
Cal Date : 16-MAY-2002 17:50 Cal File: 100PPB.D
Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.04
Processing Host: FILES

Concentration Formula: Amt * DF * Vf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
1	dichlorodifluoromethane	AIB1A	4.733	4.733	(0.368)	721015	5.00000	6.5
2	chloromethane	AIB1A	5.256	5.256	(0.409)	338486	5.00000	5.7
3	vinyl chloride	AIB1A	5.540	5.540	(0.431)	801166	5.00000	6.7
4	bromomethane	AIB1A	6.543	6.543	(0.509)	500206	5.00000	6.0
5	chloroethane	AIB1A	6.740	6.740	(0.525)	1099571	5.00000	6.0
6	trichlorofluoromethane	AIB1A	7.226	7.226	(0.563)	811052	5.00000	5.7
7	1,2,2-Trichlorotrifluoroethan	AIB1A	8.163	8.163	(0.635)	998925	5.00000	5.6
8	1,1-dichloroethene	AIB1A	8.533	8.533	(0.664)	1614014	5.00000	5.9
9	methylene chloride	AIB1A	9.500	9.500	(0.739)	2005763	5.00000	6.4
10	MTBE	FID2B	9.700	9.700	(0.659)	90482	5.00000	4.4
11	trans 1,2-dichloroethene	AIB1A	10.030	10.030	(0.781)	1637638	5.00000	5.9
M 12	1,2-Dichloroethene (tot)	AIB1A				3162037	10.0000	11.7
13	1,1-dichloroethane	AIB1A	10.883	10.883	(0.847)	1574259	5.00000	5.8
14	cis-1,2-dichloroethene	AIB1A	12.153	12.153	(0.946)	1524399	5.00000	5.7
15	chloroform	AIB1A	12.483	12.483	(0.972)	1957800	5.00000	5.6
* 16	Bromochloromethane	AIB1A	12.846	12.846	(1.000)	6395826	30.0000	
17	1,1,1-trichloroethane	AIB1A	13.370	13.370	(1.041)	1704088	5.00000	5.7

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
	18 carbon tetrachloride	AIB1A	13.946	13.946	(1.086)	1924790	5.00000	5.6
	19 1,2-dichloroethane	AIB1A	14.216	14.216	(1.107)	1501017	5.00000	5.6
	20 Benzene	FID2B	14.280	14.280	(0.971)	322103	5.00000	5.4
*	21 Fluorobenzene	FID2B	14.710	14.710	(1.000)	1245755	30.0000	
	22 trichloroethene	AIB1A	15.663	15.663	(1.219)	1863579	5.00000	5.9
	23 1,2-dichloropropane	AIB1A	16.076	16.076	(1.251)	1372641	5.00000	5.7
	24 bromodichloromethane	AIB1A	16.676	16.676	(1.298)	1315184	5.00000	5.8
	25 cis-1,3-dichloropropene	AIB1A	18.183	18.183	(1.415)	1329770	5.00000	5.7
	26 Toluene	FID2B	19.276	19.276	(1.310)	300509	5.00000	5.4
	27 trans-1,3-dichloropropene	AIB1A	19.850	19.850	(1.545)	1186961	5.00000	5.9
	28 1,1,2-trichlorethane	AIB1A	20.476	20.476	(1.594)	1492705	5.00000	6.0
	29 tetrachloroethene	AIB1A	21.886	21.886	(1.704)	1972670	5.00000	5.8
	30 dibromochloromethane	AIB1A	22.716	22.716	(1.768)	925276	5.00000	5.7
	31 chlorobenzene	AIB1A	25.213	25.213	(1.963)	692406	5.00000	5.7
	32 Ethylbenzene	FID2B	25.396	25.396	(1.726)	273834	5.00000	5.4
	33 m,p-xylene	FID2B	25.683	25.683	(1.746)	607000	10.0000	10.9
M	34 Xylene (tot)	FID2B				859466	15.0000	16.4
	35 o-xylene	FID2B	27.240	27.240	(1.852)	252466	5.00000	5.4
	36 bromoform	AIB1A	28.470	28.470	(2.216)	577114	5.00000	5.9
$	37 1,4-dichlorobutane	AIB1A	28.763	28.763	(2.239)	900252	5.00000	5.6
	38 1,1,2,2-tetrachloroethane	AIB1A	29.003	29.003	(2.258)	1070790	5.00000	6.2
$	39 4-bromofluorobenzene	FID2B	29.243	29.243	(1.988)	252668	5.00000	5.0
	40 1,3-dichlorobenzene	AIB1A	31.503	31.503	(2.452)	934146	5.00000	6.2
	41 1,4-dichlorobenzene	AIB1A	31.673	31.673	(2.465)	1008355	5.00000	6.3
	42 1,2-dichlorobenzene	AIB1A	32.253	32.253	(2.511)	902146	5.00000	6.3

Data File: \\Kholley\EE\chem\vgc2.i\V2051602.b\5PPBR.D
Report Date: 23-May-2002 09:35

PEL Laboratories, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vgc2.i
Lab File ID: 5PPBR.D
Lab Smp Id: 5PPB
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\KHOLLEY\EE\chem\vgc2.i\V2051602.b\8021.m
Misc Info:

Calibration Date: 16-MAY-2002
Calibration Time: 16:29
Client Smp ID: 5PPB
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	6556499	3278250	13112998	6395826	-2.45
21 Fluorobenzene	1217117	608559	2434234	1245755	2.35

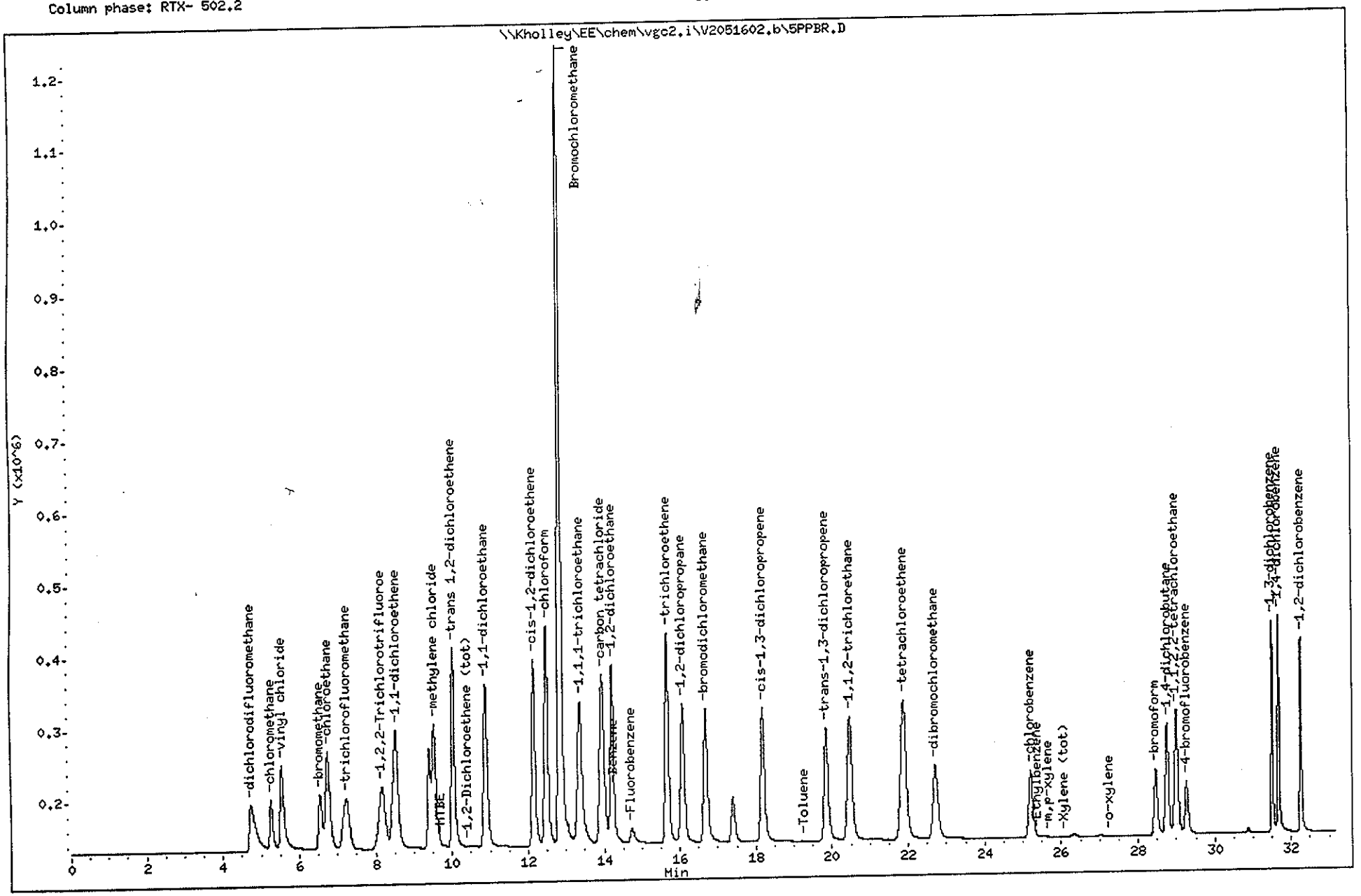
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	12.84	12.34	13.34	12.85	0.05
21 Fluorobenzene	14.71	14.21	15.21	14.71	0.02

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\Kholley\EE\chem\vgc2.i\V2051602.b\5PPBR.D
Date : 16-MAY-2002 15:07
Client ID: 5PPB
Sample Info: 5PPB
Purge Volume: 5.0
Column phase: RTX- 502.2

Instrument: vgc2.i

Operator:
Column diameter: 0.53



PEL Laboratories, Inc.

Data file : \\Kholley\EE\chem\vgc2.i\V2051602.b\10PPB.D
Lab Smp Id: 10PPB Client Smp ID: 10PPB
Inj Date : 16-MAY-2002 12:11
Operator : Inst ID: vgc2.i
Smp Info : 10PPB
Misc Info :
Comment :
Method : \\KHOLLEY\EE\chem\vgc2.i\V2051602.b\8021.m
Meth Date : 23-May-2002 09:35 lpelo Quant Type: ISTD
Cal Date : 16-MAY-2002 17:50 Cal File: 100PPB.D
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.04
Processing Host: FILES

Concentration Formula: Amt * DF * Vf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
1	dichlorodifluoromethane	AIB1A	4.733	4.733	(0.369)	1087197	10.0000	10.2
2	chloromethane	AIB1A	5.260	5.260	(0.410)	668572	10.0000	11.7
3	vinyl chloride	AIB1A	5.553	5.553	(0.433)	1188887	10.0000	10.4
4	bromomethane	AIB1A	6.546	6.546	(0.510)	806408	10.0000	10.1
5	chloroethane	AIB1A	6.740	6.740	(0.525)	1864486	10.0000	10.7
6	trichlorofluoromethane	AIB1A	7.216	7.216	(0.562)	1491298	10.0000	10.9
7	1,2,2-Trichlorotrifluoroethan	AIB1A	8.160	8.160	(0.636)	1757617	10.0000	10.3
8	1,1-dichloroethene	AIB1A	8.516	8.516	(0.663)	2716900	10.0000	10.3
9	methylene chloride	AIB1A	9.393	9.393	(0.732)	3093170	10.0000	10.2
10	MTBE	FID2B	9.680	9.680	(0.658)	149814	10.0000	7.4
11	trans 1,2-dichloroethene	AIB1A	10.023	10.023	(0.781)	2682506	10.0000	10.1
M 12	1,2-Dichloroethene (tot)	AIB1A				5243201	20.0000	20.2
13	1,1-dichloroethane	AIB1A	10.883	10.883	(0.848)	2658260	10.0000	10.1
14	cis-1,2-dichloroethene	AIB1A	12.143	12.143	(0.946)	2560695	10.0000	10.0
15	chloroform	AIB1A	12.473	12.473	(0.972)	3328127	10.0000	10
* 16	Bromochloromethane	AIB1A	12.836	12.836	(1.000)	6142961	30.0000	
17	1,1,1-trichloroethane	AIB1A	13.353	13.353	(1.040)	2894489	10.0000	10.0

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
	18 carbon tetrachloride	AIB1A	13.940	13.940	(1.086)	3383983	10.0000	10.2
	19 1,2-dichloroethane	AIB1A	14.206	14.206	(1.107)	2557687	10.0000	10.0
	20 Benzene	FID2B	14.270	14.270	(0.971)	551635	10.0000	9.3
*	21 Fluorobenzene	FID2B	14.703	14.703	(1.000)	1243279	30.0000	
	22 trichloroethene	AIB1A	15.646	15.646	(1.219)	2932722	10.0000	9.6
	23 1,2-dichloropropane	AIB1A	16.063	16.063	(1.251)	2274542	10.0000	9.8
	24 bromodichloromethane	AIB1A	16.666	16.666	(1.298)	2142122	10.0000	9.8
	25 cis-1,3-dichloropropene	AIB1A	18.166	18.166	(1.415)	2221788	10.0000	9.9
	26 Toluene	FID2B	19.263	19.263	(1.310)	511897	10.0000	9.3
	27 trans-1,3-dichloropropene	AIB1A	19.833	19.833	(1.545)	1910655	10.0000	9.8
	28 1,1,2-trichlorethane	AIB1A	20.456	20.456	(1.594)	2333021	10.0000	9.7
	29 tetrachloroethene	AIB1A	21.866	21.866	(1.703)	3252839	10.0000	9.9
	30 dibromochloromethane	AIB1A	22.696	22.696	(1.768)	1537922	10.0000	9.9
	31 chlorobenzene	AIB1A	25.196	25.196	(1.963)	1190640	10.0000	10.2
	32 Ethylbenzene	FID2B	25.373	25.373	(1.726)	462630	10.0000	9.2
	33 m,p-xylene	FID2B	25.666	25.666	(1.746)	1026815	20.0000	18.5
M	34 Xylene (tot)	FID2B				1454593	30.0000	27.8
	35 o-xylene	FID2B	27.220	27.220	(1.851)	427778	10.0000	9.2
	36 bromoform	AIB1A	28.450	28.450	(2.216)	884561	10.0000	9.4
$	37 1,4-dichlorobutane	AIB1A	28.750	28.750	(2.240)	1502469	10.0000	9.8
	38 1,1,2,2-tetrachloroethane	AIB1A	28.990	28.990	(2.258)	1547431	10.0000	9.4
$	39 4-bromofluorobenzene	FID2B	29.223	29.223	(1.988)	461997	10.0000	9.2
	40 1,3-dichlorobenzene	AIB1A	31.490	31.490	(2.453)	1421293	10.0000	9.9
	41 1,4-dichlorobenzene	AIB1A	31.660	31.660	(2.466)	1549609	10.0000	10.0
	42 1,2-dichlorobenzene	AIB1A	32.243	32.243	(2.512)	1340002	10.0000	9.7

PEL Laboratories, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vgc2.i
Lab File ID: 10PPB.D
Lab Smp Id: 10PPB
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\KHOLLEY\EE\chem\vgc2.i\V2051602.b\8021.m
Misc Info:

Calibration Date: 16-MAY-2002
Calibration Time: 16:29
Client Smp ID: 10PPB
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	6556499	3278250	13112998	6142961	-6.31
21 Fluorobenzene	1217117	608559	2434234	1243279	2.15

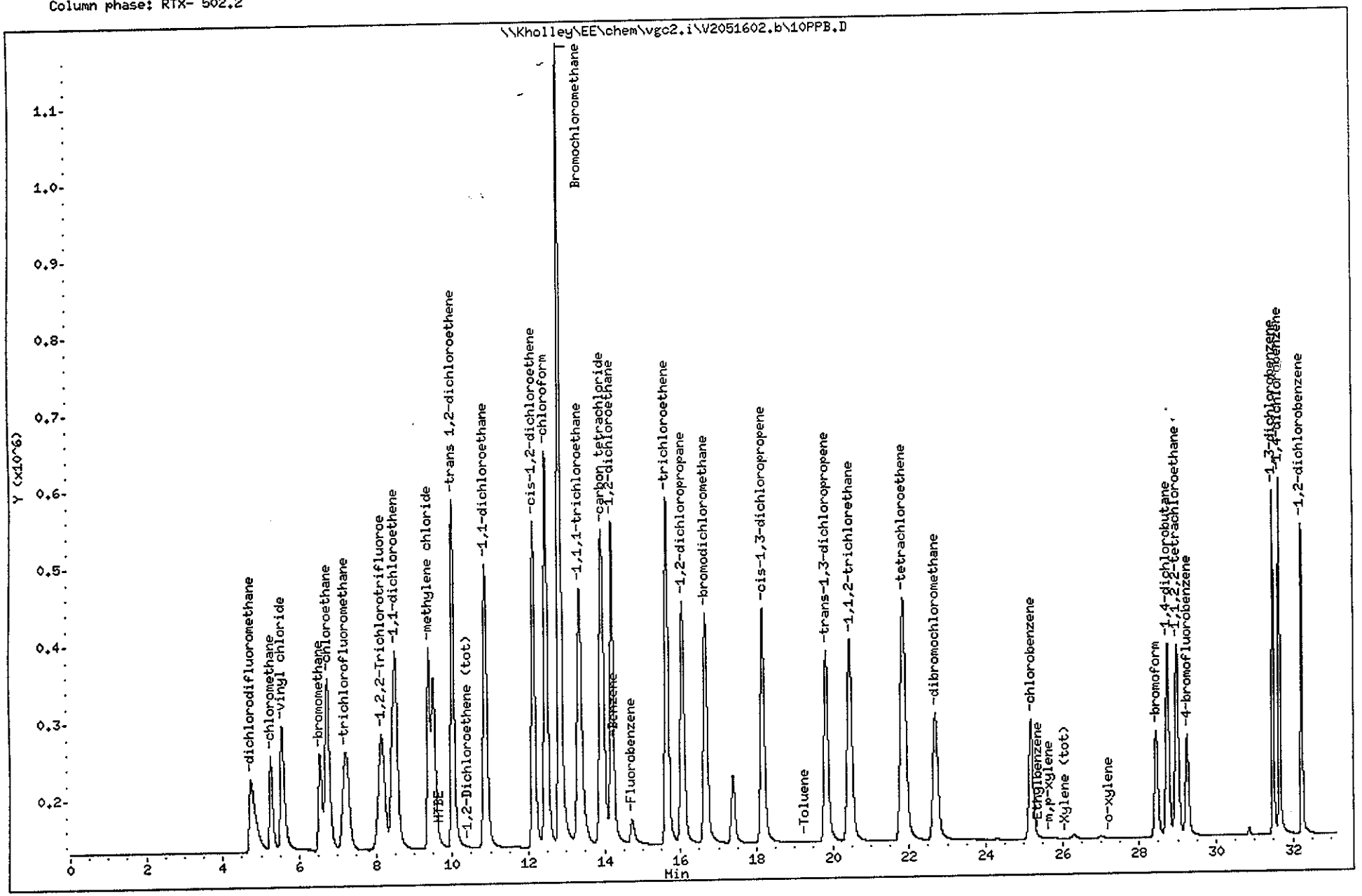
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	12.84	12.34	13.34	12.84	-0.03
21 Fluorobenzene	14.71	14.21	15.21	14.70	-0.02

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\Kholley\EE\chem\vgc2.i\V2051602.b\10PPB.D
Date : 16-MAY-2002 12:11
Client ID: 10PPB
Sample Info: 10PPB
Purge Volume: 5.0
Column phase: RTX- 502.2

Instrument: vgc2.i

Operator:
Column diameter: 0.53



PEL Laboratories, Inc.

Data file : \\Kholley\EE\chem\vgc2.i\V2051602.b\20PPBR.D
Lab Smp Id: 20PPB Client Smp ID: 20PPB
Inj Date : 16-MAY-2002 15:48
Operator : Inst ID: vgc2.i
Smp Info : 20PPB
Misc Info :
Comment :
Method : \\KHOLLEY\EE\chem\vgc2.i\V2051602.b\8021.m
Meth Date : 23-May-2002 09:35 lpelo Quant Type: ISTD
Cal Date : 16-MAY-2002 17:50 Cal File: 100PPB.D
Als bottle: 7 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.04
Processing Host: FILES

Concentration Formula: Amt * DF * Vf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
1	dichlorodifluoromethane	AIB1A	4.730	4.730	(0.368)	2508093	20.0000	22.7
2	chloromethane	AIB1A	5.263	5.263	(0.410)	1120792	20.0000	18.9
3	vinyl chloride	AIB1A	5.560	5.560	(0.433)	2627623	20.0000	22.2
4	bromomethane	AIB1A	6.546	6.546	(0.509)	2011551	20.0000	24.4
5	chloroethane	AIB1A	6.750	6.750	(0.525)	4028367	20.0000	22.4
6	trichlorofluoromethane	AIB1A	7.233	7.233	(0.563)	2963605	20.0000	21.0
7	1,2,2-Trichlorotrifluoroethan	AIB1A	8.176	8.176	(0.636)	3736277	20.0000	21.3
8	1,1-dichloroethene	AIB1A	8.530	8.530	(0.664)	5726315	20.0000	21.1
9	methylene chloride	AIB1A	9.533	9.533	(0.742)	6337554	20.0000	20.3
10	MTBE	FID2B	9.696	9.696	(0.659)	472933	20.0000	24.9
11	trans 1,2-dichloroethene	AIB1A	10.033	10.033	(0.781)	5508285	20.0000	20.1
M 12	1,2-Dichloroethene (tot)	AIB1A				10809547	40.0000	40.2
13	1,1-dichloroethane	AIB1A	10.890	10.890	(0.847)	5532700	20.0000	20.4
14	cis-1,2-dichloroethene	AIB1A	12.153	12.153	(0.946)	5301262	20.0000	20.1
15	chloroform	AIB1A	12.486	12.486	(0.972)	6809181	20.0000	19.8
* 16	Bromochloromethane	AIB1A	12.850	12.850	(1.000)	6346554	30.0000	
17	1,1,1-trichloroethane	AIB1A	13.366	13.366	(1.040)	5741410	20.0000	19.3

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
	18 carbon tetrachloride	AIB1A	13.956	13.956	(1.086)	6724812	20.0000	19.6
	19 1,2-dichloroethane	AIB1A	14.223	14.223	(1.107)	5166644	20.0000	19.6
	20 Benzene	FID2B	14.286	14.286	(0.971)	1140714	20.0000	20.6
*	21 Fluorobenzene	FID2B	14.716	14.716	(1.000)	1162891	30.0000	
	22 trichloroethene	AIB1A	15.663	15.663	(1.219)	6211850	20.0000	19.7
	23 1,2-dichloropropane	AIB1A	16.073	16.073	(1.253)	4800496	20.0000	20.0
	24 bromodichloromethane	AIB1A	16.676	16.676	(1.298)	4803758	20.0000	21.2
	25 cis-1,3-dichloropropene	AIB1A	18.193	18.193	(1.416)	4793260	20.0000	20.8
	26 Toluene	FID2B	19.286	19.286	(1.311)	1053522	20.0000	20.4
	27 trans-1,3-dichloropropene	AIB1A	19.856	19.856	(1.545)	4133769	20.0000	20.6
	28 1,1,2-trichlorethane	AIB1A	20.473	20.473	(1.593)	5097743	20.0000	20.6
	29 tetrachloroethene	AIB1A	21.873	21.873	(1.702)	6822442	20.0000	20.0
	30 dibromochloromethane	AIB1A	22.720	22.720	(1.768)	3494150	20.0000	21.7
	31 chlorobenzene	AIB1A	25.210	25.210	(1.962)	2505043	20.0000	20.8
	32 Ethylbenzene	FID2B	25.400	25.400	(1.726)	960107	20.0000	20.5
	33 m,p-xylene	FID2B	25.690	25.690	(1.746)	2147110	40.0000	41.4
M	34 Xylene (tot)	FID2B				3043134	60.0000	62.1
	35 o-xylene	FID2B	27.236	27.236	(1.851)	896024	20.0000	20.7
	36 bromoform	AIB1A	28.473	28.473	(2.216)	2163984	20.0000	22.2
$	37 1,4-dichlorobutane	AIB1A	28.763	28.763	(2.238)	3521873	20.0000	22.2
	38 1,1,2,2-tetrachloroethane	AIB1A	29.006	29.006	(2.257)	3486206	20.0000	20.5
$	39 4-bromofluorobenzene	FID2B	29.243	29.243	(1.987)	1021754	20.0000	21.6
	40 1,3-dichlorobenzene	AIB1A	31.500	31.500	(2.451)	3010677	20.0000	20.3
	41 1,4-dichlorobenzene	AIB1A	31.670	31.670	(2.465)	3324944	20.0000	20.8
	42 1,2-dichlorobenzene	AIB1A	32.253	32.253	(2.510)	2992958	20.0000	21.0

PEL Laboratories, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vgc2.i
Lab File ID: 20PPBR.D
Lab Smp Id: 20PPB
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\KHOLLEY\EE\chem\vgc2.i\V2051602.b\8021.m
Misc Info:

Calibration Date: 16-MAY-2002
Calibration Time: 16:29
Client Smp ID: 20PPB
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	6556499	3278250	13112998	6346554	-3.20
21 Fluorobenzene	1217117	608559	2434234	1162891	-4.46

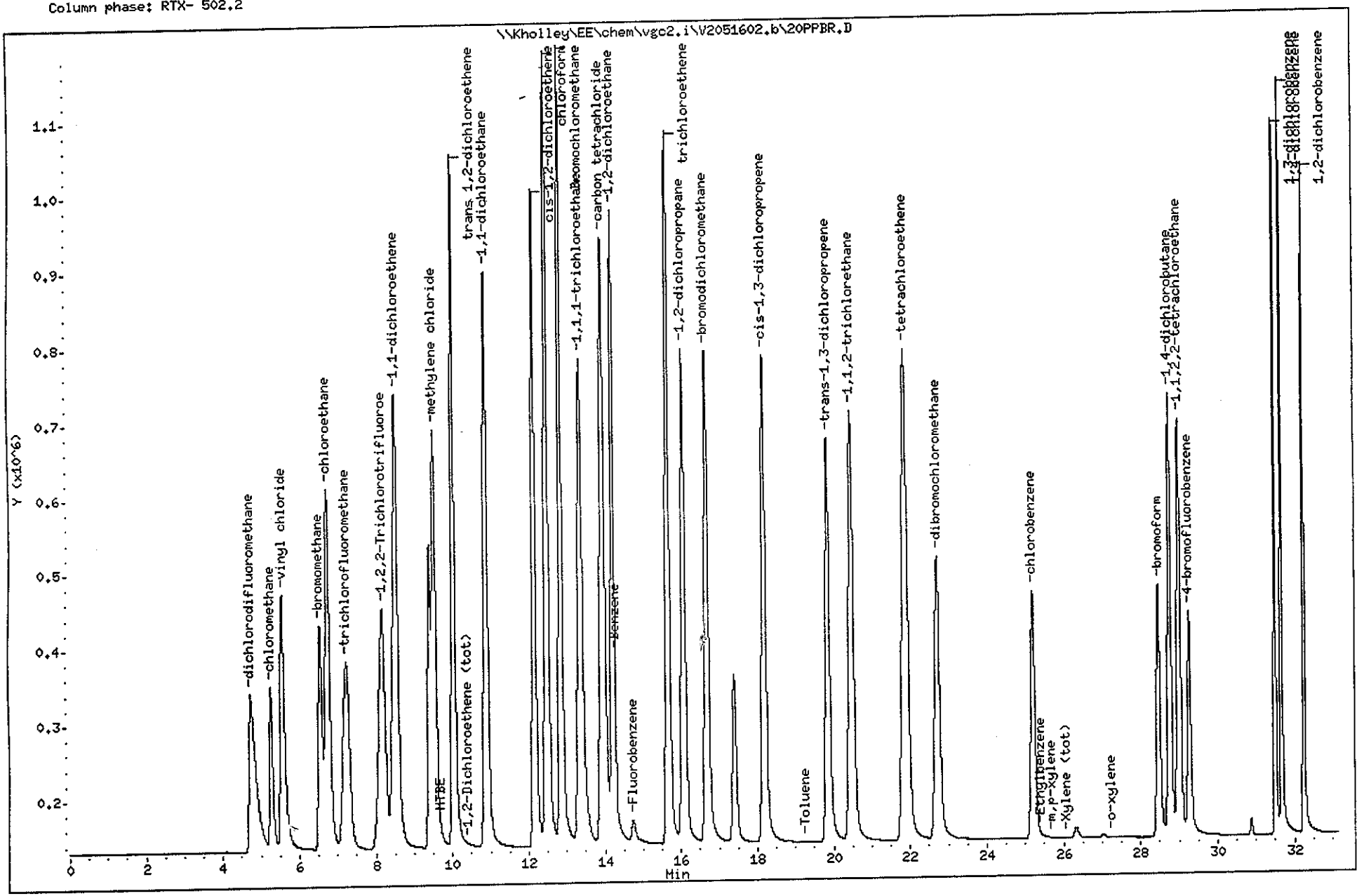
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	12.84	12.34	13.34	12.85	0.08
21 Fluorobenzene	14.71	14.21	15.21	14.72	0.07

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\Kholley\EE\chem\vgc2.i\V2051602.b\20PPBR.D
Date : 16-MAY-2002 15:48
Client ID: 20PPB
Sample Info: 20PPB
Purge Volume: 5.0
Column phase: RTX- 502.2

Instrument: vgc2.i

Operator:
Column diameter: 0.53



PEL Laboratories, Inc.

Data file : \\Kholley\EE\chem\vgc2.i\V2051602.b\30PPBR.D
Lab Smp Id: 30PPB Client Smp ID: 30PPB
Inj Date : 16-MAY-2002 16:29
Operator : Inst ID: vgc2.i
Smp Info : 30PPB
Misc Info :
Comment :
Method : \\KHOLLEY\EE\chem\vgc2.i\V2051602.b\8021.m
Meth Date : 23-May-2002 09:36 lpelo Quant Type: ISTD
Cal Date : 16-MAY-2002 17:50 Cal File: 100PPB.D
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.04
Processing Host: FILES

Concentration Formula: Amt * DF * Vf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
1	dichlorodifluoromethane	AIB1A	4.723	4.723	(0.368)	3967779	30.0000	34.8
2	chloromethane	AIB1A	5.260	5.260	(0.410)	1591087	30.0000	26.0
3	vinyl chloride	AIB1A	5.553	5.553	(0.433)	3796944	30.0000	31.1
4	bromomethane	AIB1A	6.543	6.543	(0.510)	3109369	30.0000	36.5
5	chloroethane	AIB1A	6.726	6.726	(0.524)	5723647	30.0000	30.8
6	trichlorofluoromethane	AIB1A	7.230	7.230	(0.563)	4556101	30.0000	31.3
7	1,2,2-Trichlorotrifluoroethan	AIB1A	8.166	8.166	(0.636)	5613842	30.0000	31.0
8	1,1-dichloroethene	AIB1A	8.530	8.530	(0.664)	8695283	30.0000	31.0
9	methylene chloride	AIB1A	9.516	9.516	(0.741)	6606713	30.0000	20.5
10	MTBE	FID2B	9.686	9.686	(0.659)	773179	30.0000	38.9
11	trans 1,2-dichloroethene	AIB1A	10.020	10.020	(0.780)	8228673	30.0000	29.0
M 12	1,2-Dichloroethene (tot)	AIB1A				15862355	60.0000	57.1
13	1,1-dichloroethane	AIB1A	10.876	10.876	(0.847)	8150435	30.0000	29.0
14	cis-1,2-dichloroethene	AIB1A	12.146	12.146	(0.946)	7633682	30.0000	28.0
15	chloroform	AIB1A	12.476	12.476	(0.972)	10060293	30.0000	28.3
* 16	Bromochloromethane	AIB1A	12.840	12.840	(1.000)	6556499	30.0000	
17	1,1,1-trichloroethane	AIB1A	13.363	13.363	(1.041)	8730606	30.0000	28.4

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
	18 carbon tetrachloride	AIB1A	13.940	13.940	(1.086)	10268163	30.0000	29.0
	19 1,2-dichloroethane	AIB1A	14.216	14.216	(1.107)	7988858	30.0000	29.4
	20 Benzene	FID2B	14.273	14.273	(0.971)	1735356	30.0000	30.0
*	21 Fluorobenzene	FID2B	14.706	14.706	(1.000)	1217117	30.0000	
	22 trichloroethene	AIB1A	15.656	15.656	(1.219)	9217944	30.0000	28.3
	23 1,2-dichloropropane	AIB1A	16.070	16.070	(1.252)	7227965	30.0000	29.1
	24 bromodichloromethane	AIB1A	16.670	16.670	(1.298)	6865637	30.0000	29.3
	25 cis-1,3-dichloropropene	AIB1A	18.173	18.173	(1.415)	6780498	30.0000	28.4
	26 Toluene	FID2B	19.270	19.270	(1.310)	1600967	30.0000	29.6
	27 trans-1,3-dichloropropene	AIB1A	19.840	19.840	(1.545)	6203249	30.0000	29.9
	28 1,1,2-trichlorethane	AIB1A	20.456	20.456	(1.593)	7449044	30.0000	29.1
	29 tetrachloroethene	AIB1A	21.860	21.860	(1.702)	9867891	30.0000	28.1
	30 dibromochloromethane	AIB1A	22.696	22.696	(1.768)	5085432	30.0000	30.6
	31 chlorobenzene	AIB1A	25.196	25.196	(1.962)	3870315	30.0000	31.2
	32 Ethylbenzene	FID2B	25.376	25.376	(1.726)	1448607	30.0000	29.5
	33 m,p-xylene	FID2B	25.670	25.670	(1.745)	3226980	60.0000	59.5
M	34 Xylene (tot)	FID2B				4588125	90.0000	89.5
	35 o-xylene	FID2B	27.223	27.223	(1.851)	1361145	30.0000	30.0
	36 bromoform	AIB1A	28.456	28.456	(2.216)	3159452	30.0000	31.4
$	37 1,4-dichlorobutane	AIB1A	28.750	28.750	(2.239)	4789501	30.0000	29.2
	38 1,1,2,2-tetrachloroethane	AIB1A	28.990	28.990	(2.258)	5052753	30.0000	28.7
$	39 4-bromofluorobenzene	FID2B	29.233	29.233	(1.988)	1440410	30.0000	29.2
	40 1,3-dichlorobenzene	AIB1A	31.493	31.493	(2.453)	4356616	30.0000	28.4
	41 1,4-dichlorobenzene	AIB1A	31.660	31.660	(2.466)	4662394	30.0000	28.3
	42 1,2-dichlorobenzene	AIB1A	32.243	32.243	(2.511)	4340786	30.0000	29.4

PEL Laboratories, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vgc2.i
Lab File ID: 30PPBR.D
Lab Smp Id: 30PPB
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\KHOLLEY\EE\chem\vgc2.i\V2051602.b\8021.m
Misc Info:

Calibration Date: 16-MAY-2002
Calibration Time: 16:29
Client Smp ID: 30PPB
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	6556499	3278250	13112998	6556499	0.00
21 Fluorobenzene	1217117	608559	2434234	1217117	0.00

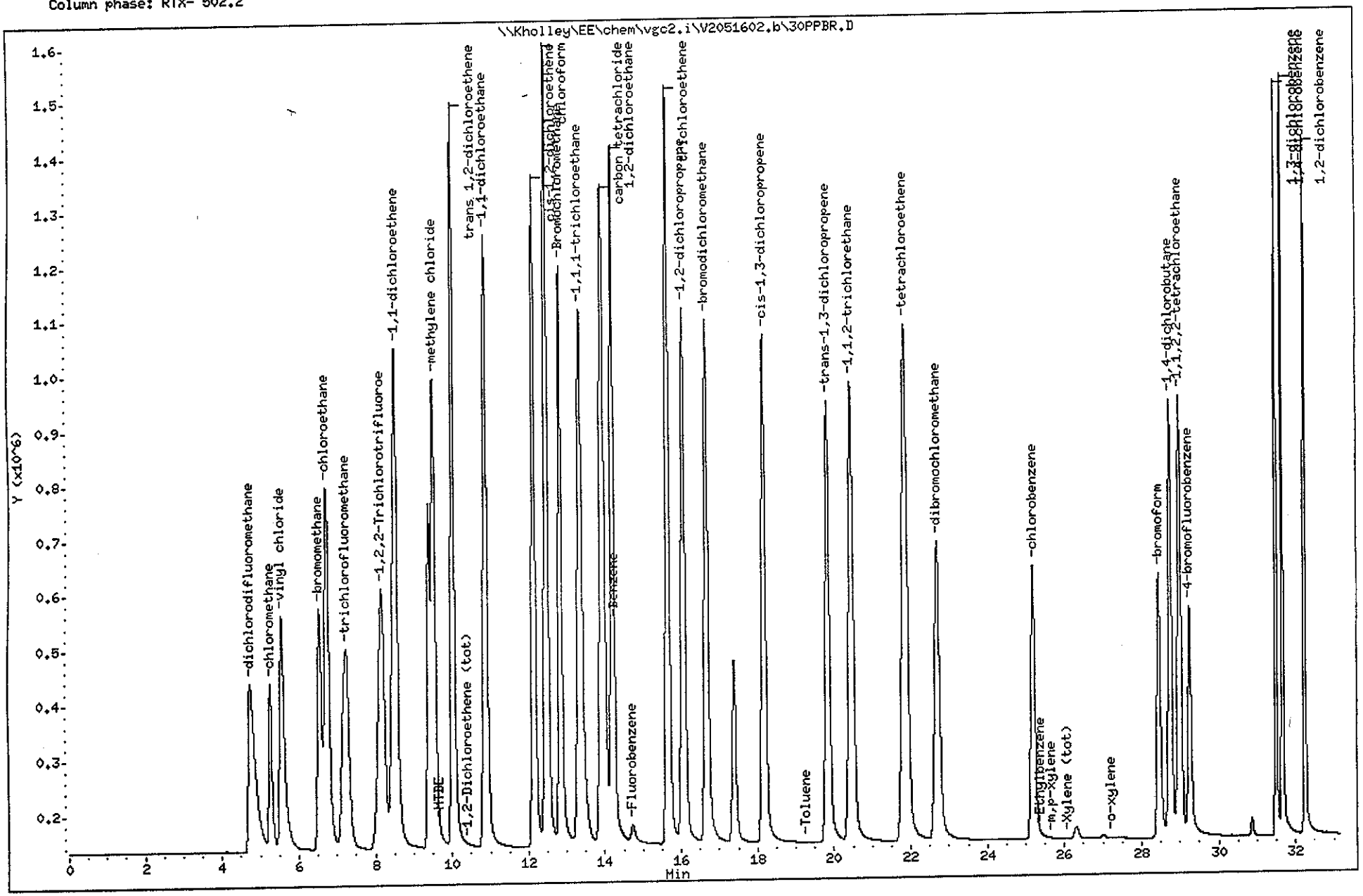
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	12.84	12.34	13.34	12.84	0.00
21 Fluorobenzene	14.71	14.21	15.21	14.71	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\Kholley\EE\chem\vgc2.i\V2051602.b\30PPBR.D
Date : 16-MAY-2002 16:29
Client ID: 30PPB
Sample Info: 30PPB
Purge Volume: 5.0
Column phase: RTX- 502.2

Instrument: vgc2.i

Operator:
Column diameter: 0.53



PEL Laboratories, Inc.

Data file : \\Kholley\EE\chem\vgc2.i\V2051602.b\40PPB.D
Lab Smp Id: 40PPB Client Smp ID: 40PPB
Inj Date : 16-MAY-2002 14:27
Operator : Inst ID: vgc2.i
Smp Info : 40PPB
Misc Info :
Comment :
Method : \\KHOLLEY\EE\chem\vgc2.i\V2051602.b\8021.m
Meth Date : 23-May-2002 09:35 lpelo Quant Type: ISTD
Cal Date : 16-MAY-2002 17:50 Cal File: 100PPB.D
Als bottle: 9 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.04
Processing Host: FILES

Concentration Formula: Amt * DF * Vf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
1	dichlorodifluoromethane	AIB1A	4.730	4.730	(0.368)	4551647	40.0000	43.5
2	chloromethane	AIB1A	5.256	5.256	(0.409)	2330292	40.0000	41.5
3	vinyl chloride	AIB1A	5.543	5.543	(0.432)	4455482	40.0000	39.7
4	bromomethane	AIB1A	6.530	6.530	(0.509)	3383529	40.0000	43.3
5	chloroethane	AIB1A	6.726	6.726	(0.524)	7222630	40.0000	42.3
6	trichlorofluoromethane	AIB1A	7.230	7.230	(0.563)	5949594	40.0000	44.5
7	1,2,2-Trichlorotrifluoroethan	AIB1A	8.166	8.166	(0.636)	7066946	40.0000	42.4
8	1,1-dichloroethene	AIB1A	8.516	8.516	(0.663)	10439704	40.0000	40.5
9	methylene chloride	AIB1A	9.400	9.400	(0.732)	11556452	40.0000	39.1
10	MTBE	FID2B	9.683	9.683	(0.658)	744340	40.0000	40.6(MH)
11	trans 1,2-dichloroethene	AIB1A	10.023	10.023	(0.781)	10088862	40.0000	38.8
M 12	1,2-Dichloroethene (tot)	AIB1A				19713061	80.0000	77.3
13	1,1-dichloroethane	AIB1A	10.883	10.883	(0.848)	10286910	40.0000	39.9
14	cis-1,2-dichloroethene	AIB1A	12.143	12.143	(0.946)	9624199	40.0000	38.5
15	chloroform	AIB1A	12.470	12.470	(0.971)	12497146	40.0000	38.3
* 16	Bromochloromethane	AIB1A	12.840	12.840	(1.000)	6020914	30.0000	
17	1,1,1-trichloroethane	AIB1A	13.356	13.356	(1.040)	11093859	40.0000	39.3

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
18	carbon tetrachloride	AIB1A	13.946	13.946	(1.086)	12717190	40.0000	39.1
19	1,2-dichloroethane	AIB1A	14.210	14.210	(1.107)	9504967	40.0000	38.1
20	Benzene	FID2B	14.276	14.276	(0.971)	2171833	40.0000	40.6
* 21	Fluorobenzene	FID2B	14.706	14.706	(1.000)	1124025	30.0000	
22	trichloroethene	AIB1A	15.653	15.653	(1.219)	11129191	40.0000	37.2
23	1,2-dichloropropane	AIB1A	16.066	16.066	(1.251)	8726839	40.0000	38.3
24	bromodichloromethane	AIB1A	16.670	16.670	(1.298)	8543000	40.0000	39.7
25	cis-1,3-dichloropropene	AIB1A	18.180	18.180	(1.416)	8889148	40.0000	40.6
26	Toluene	FID2B	19.273	19.273	(1.311)	2011386	40.0000	40.2
27	trans-1,3-dichloropropene	AIB1A	19.850	19.850	(1.546)	7688853	40.0000	40.4
28	1,1,2-trichlorethane	AIB1A	20.463	20.463	(1.594)	9258432	40.0000	39.4
29	tetrachloroethene	AIB1A	21.866	21.866	(1.703)	12298054	40.0000	38.1
30	dibromochloromethane	AIB1A	22.703	22.703	(1.768)	6645216	40.0000	43.5
31	chlorobenzene	AIB1A	25.203	25.203	(1.963)	4739601	40.0000	41.6
32	Ethylbenzene	FID2B	25.386	25.386	(1.726)	1847651	40.0000	40.8
33	m,p-xylene	FID2B	25.680	25.680	(1.746)	4104907	80.0000	82.0
M 34	Xylene (tot)	FID2B				5806078	120.000	122
35	o-xylene	FID2B	27.230	27.230	(1.852)	1701171	40.0000	40.6
36	bromoform	AIB1A	28.460	28.460	(2.216)	4202176	40.0000	45.4
$ 37	1,4-dichlorobutane	AIB1A	28.753	28.753	(2.239)	6107631	40.0000	40.5
38	1,1,2,2-tetrachloroethane	AIB1A	28.993	28.993	(2.258)	6703057	40.0000	41.5
$ 39	4-bromofluorobenzene	FID2B	29.236	29.236	(1.988)	1825483	40.0000	40.0
40	1,3-dichlorobenzene	AIB1A	31.496	31.496	(2.453)	5700365	40.0000	40.5
41	1,4-dichlorobenzene	AIB1A	31.663	31.663	(2.466)	6058095	40.0000	40.0
42	1,2-dichlorobenzene	AIB1A	32.246	32.246	(2.511)	5479859	40.0000	40.4

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

PEL Laboratories, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vgc2.i
Lab File ID: 40PPB.D
Lab Smp Id: 40PPB
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\KHOLLEY\EE\chem\vgc2.i\V2051602.b\8021.m
Misc Info:

Calibration Date: 16-MAY-2002
Calibration Time: 16:29
Client Smp ID: 40PPB
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	6556499	3278250	13112998	6020914	-8.17
21 Fluorobenzene	1217117	608559	2434234	1124025	-7.65

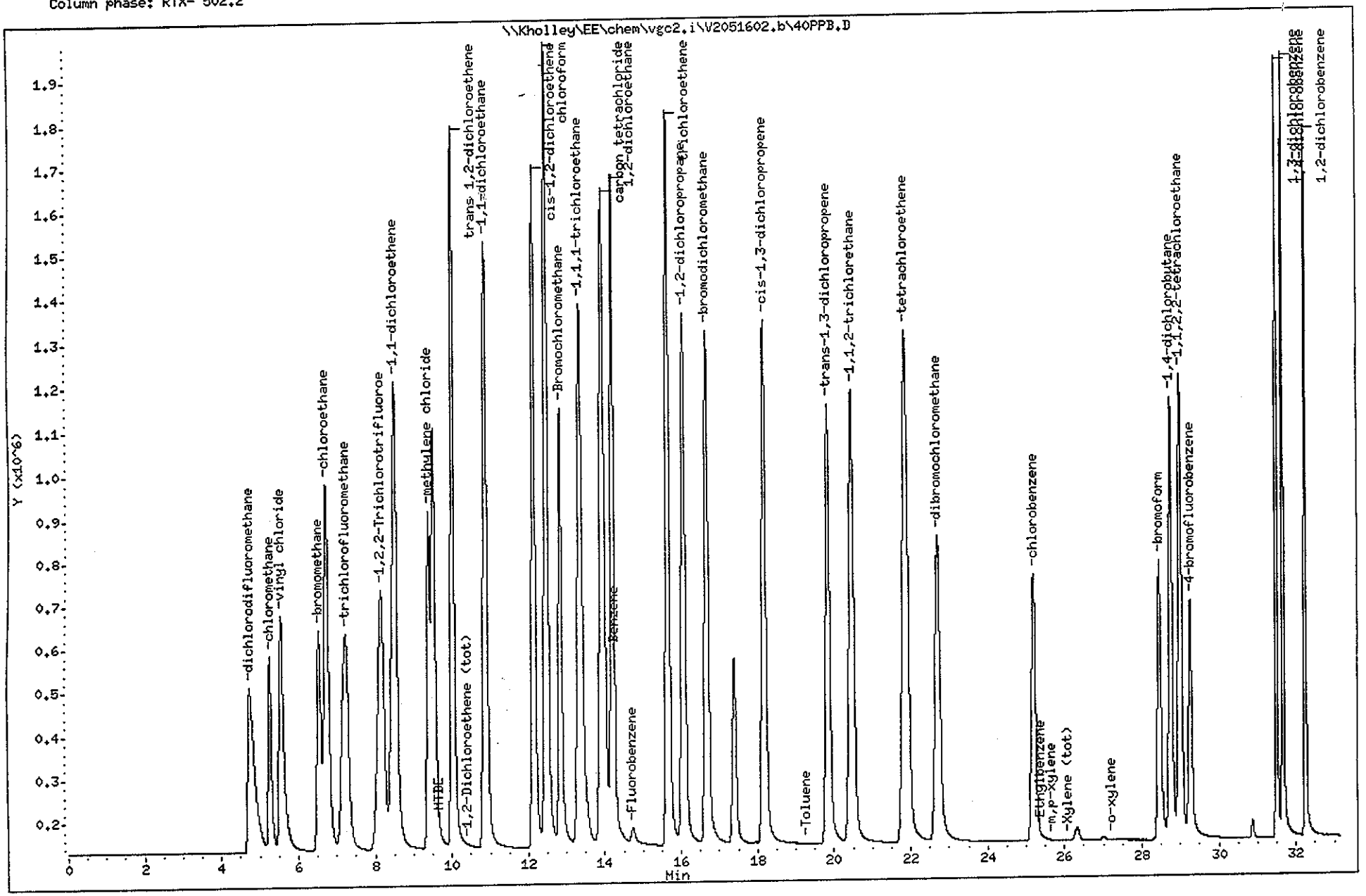
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	12.84	12.34	13.34	12.84	0.00
21 Fluorobenzene	14.71	14.21	15.21	14.71	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\Kholley\EE\chem\vgc2.i\V2051602.b\40PPB.D
Date : 16-MAY-2002 14:27
Client ID: 40PPB
Sample Info: 40PPB
Purge Volume: 5.0
Column phase: RTX- 502.2

Instrument: vgc2.i

Operator:
Column diameter: 0.53



PEL Laboratories, Inc.

Data file : \\Kholley\EE\chem\vgc2.i\V2051602.b\50PPB.D
Lab Smp Id: 50PPB Client Smp ID: 50PPB
Inj Date : 16-MAY-2002 17:09
Operator : Inst ID: vgc2.i
Smp Info : 50PPB
Misc Info :
Comment :
Method : \\KHOLLEY\EE\chem\vgc2.i\V2051602.b\8021.m
Meth Date : 23-May-2002 09:36 lpelo Quant Type: ISTD
Cal Date : 16-MAY-2002 17:50 Cal File: 100PPB.D
Als bottle: 2 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.04
Processing Host: FILES

Concentration Formula: Amt * DF * Vf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
1	dichlorodifluoromethane	AIB1A	4.726	4.726	(0.368)	6271897	50.0000	54.7
2	chloromethane	AIB1A	5.253	5.253	(0.409)	2656217	50.0000	43.2
3	vinyl chloride	AIB1A	5.543	5.543	(0.432)	5844485	50.0000	47.6
4	bromomethane	AIB1A	6.526	6.526	(0.509)	4786002	50.0000	56.0(A)
5	chloroethane	AIB1A	6.723	6.723	(0.524)	8769049	50.0000	46.9
6	trichlorofluoromethane	AIB1A	7.220	7.220	(0.563)	6864959	50.0000	46.9
7	1,2,2-Trichlorotrifluoroethan	AIB1A	8.156	8.156	(0.636)	8285095	50.0000	45.5
8	1,1-dichloroethene	AIB1A	8.513	8.513	(0.663)	12268561	50.0000	43.5
9	methylene chloride	AIB1A	9.513	9.513	(0.741)	15034096	50.0000	46.4(M)
10	MTBE	FID2B	9.686	9.686	(0.659)	1149282	50.0000	58.3
11	trans 1,2-dichloroethene	AIB1A	10.016	10.016	(0.781)	12523945	50.0000	44.0
M 12	1,2-Dichloroethene (tot)	AIB1A				24735622	100.000	88.7
13	1,1-dichloroethane	AIB1A	10.870	10.870	(0.847)	12700724	50.0000	45.0
14	cis-1,2-dichloroethene	AIB1A	12.140	12.140	(0.946)	12211677	50.0000	44.7
15	chloroform	AIB1A	12.473	12.473	(0.972)	15693036	50.0000	44.0
* 16	Bromochloromethane	AIB1A	12.833	12.833	(1.000)	6589467	30.0000	
17	1,1,1-trichloroethane	AIB1A	13.353	13.353	(1.041)	13028398	50.0000	42.2

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
	18 carbon tetrachloride	AIB1A	13.936	13.936	(1.086)	15207559	50.0000	42.7
	19 1,2-dichloroethane	AIB1A	14.210	14.210	(1.107)	11832127	50.0000	43.3
	20 Benzene	FID2B	14.266	14.266	(0.971)	2781161	50.0000	48.4
*	21 Fluorobenzene	FID2B	14.700	14.700	(1.000)	1207899	30.0000	
	22 trichloroethene	AIB1A	15.646	15.646	(1.219)	13859804	50.0000	42.3
	23 1,2-dichloropropane	AIB1A	16.056	16.056	(1.251)	11383361	50.0000	45.6
	24 bromodichloromethane	AIB1A	16.666	16.666	(1.299)	10884975	50.0000	46.2
	25 cis-1,3-dichloropropene	AIB1A	18.166	18.166	(1.416)	10774563	50.0000	45.0
	26 Toluene	FID2B	19.260	19.260	(1.310)	2565032	50.0000	47.8
	27 trans-1,3-dichloropropene	AIB1A	19.830	19.830	(1.545)	9591816	50.0000	46.0
	28 1,1,2-trichlorethane	AIB1A	20.450	20.450	(1.594)	11833647	50.0000	46.0
	29 tetrachloroethene	AIB1A	21.856	21.856	(1.703)	15116399	50.0000	42.8
	30 dibromochloromethane	AIB1A	22.683	22.683	(1.768)	8268204	50.0000	49.4
	31 chlorobenzene	AIB1A	25.190	25.190	(1.963)	5865438	50.0000	47.0
	32 Ethylbenzene	FID2B	25.376	25.376	(1.726)	2337857	50.0000	48.0
	33 m,p-xylene	FID2B	25.666	25.666	(1.746)	5209019	100.000	96.8
M	34 Xylene (tot)	FID2B				7409054	150.000	146
	35 o-xylene	FID2B	27.220	27.220	(1.852)	2200035	50.0000	48.8
	36 bromoform	AIB1A	28.446	28.446	(2.217)	5103185	50.0000	50.4
$	37 1,4-dichlorobutane	AIB1A	28.743	28.743	(2.240)	7717971	50.0000	46.8
	38 1,1,2,2-tetrachloroethane	AIB1A	28.986	28.986	(2.259)	7982975	50.0000	45.2
$	39 4-bromofluorobenzene	FID2B	29.230	29.230	(1.988)	2412100	50.0000	49.2
	40 1,3-dichlorobenzene	AIB1A	31.490	31.490	(2.454)	7043466	50.0000	45.7
	41 1,4-dichlorobenzene	AIB1A	31.660	31.660	(2.467)	7714224	50.0000	46.5
	42 1,2-dichlorobenzene	AIB1A	32.240	32.240	(2.512)	6808417	50.0000	45.9(M)

QC Flag Legend

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

PEL Laboratories, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vgc2.i
Lab File ID: 50PPB.D
Lab Smp Id: 50PPB
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\KHOLLEY\EE\chem\vgc2.i\V2051602.b\8021.m
Misc Info:

Calibration Date: 16-MAY-2002
Calibration Time: 16:29
Client Smp ID: 50PPB
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	6556499	3278250	13112998	6589467	0.50
21 Fluorobenzene	1217117	608559	2434234	1207899	-0.76

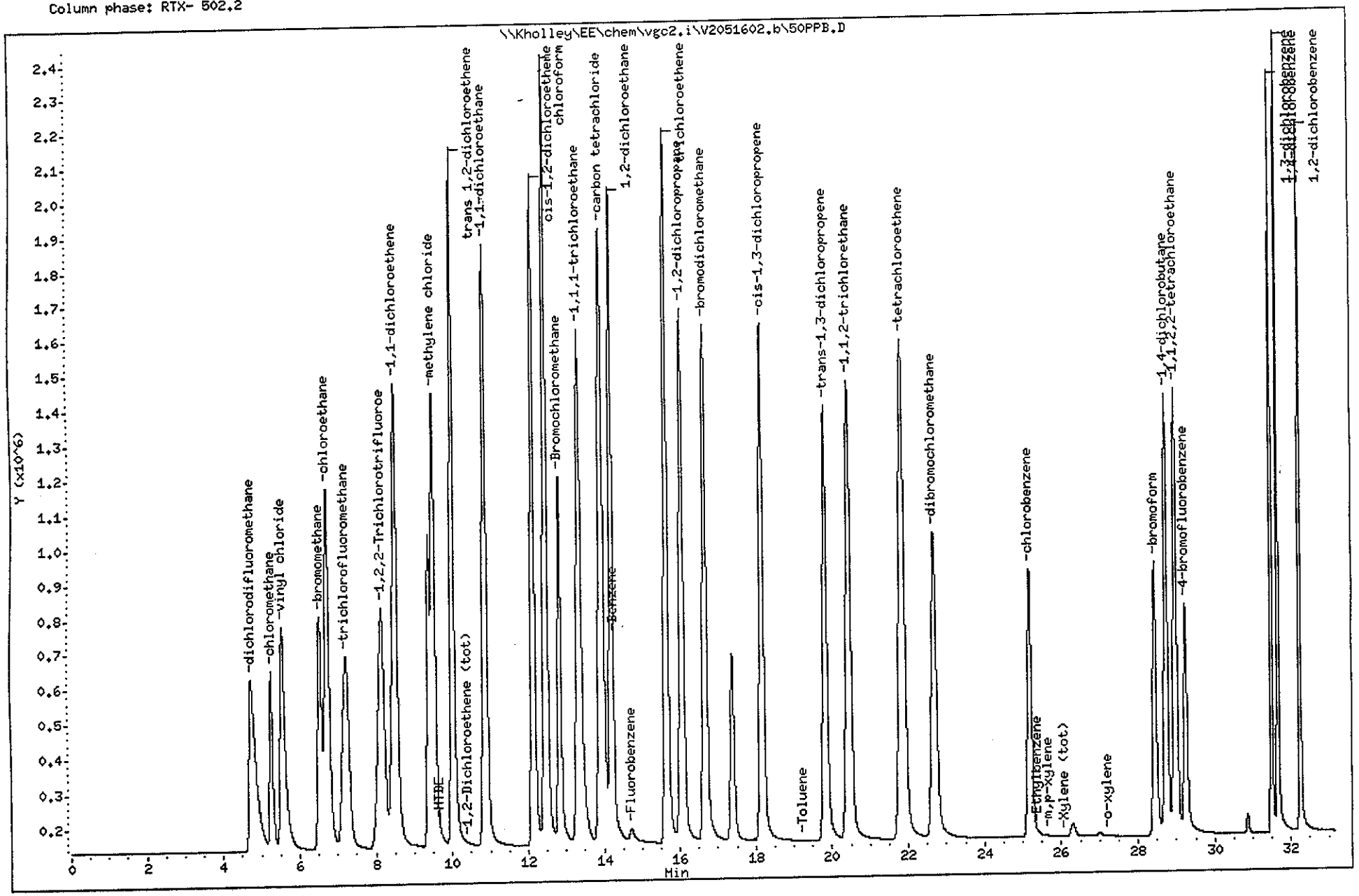
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	12.84	12.34	13.34	12.83	-0.05
21 Fluorobenzene	14.71	14.21	15.21	14.70	-0.05

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\Kholley\EE\chem\vgc2.i\V2051602.b\50PPB.D
Date : 16-MAY-2002 17:09
Client ID: 50PPB
Sample Info: 50PPB
Purge Volume: 5.0
Column phase: RTX- 502.2

Instrument: vgc2.i

Operator:
Column diameter: 0.53



PEL Laboratories, Inc.

Data file : \\Kholley\EE\chem\vgc2.i\V2051602.b\100PPB.D
Lab Smp Id: 100PPB Client Smp ID: 100PPB
Inj Date : 16-MAY-2002 17:50
Operator : Inst ID: vgc2.i
Smp Info : 100PPB
Misc Info :
Comment :
Method : \\KHOLLEY\EE\chem\vgc2.i\V2051602.b\8021.m
Meth Date : 23-May-2002 09:36 lpelo Quant Type: ISTD
Cal Date : 16-MAY-2002 17:50 Cal File: 100PPB.D
Als bottle: 3 Calibration Sample, Level: 10
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.04
Processing Host: FILES

Concentration Formula: Amt * DF * Vf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
1	dichlorodifluoromethane	AIB1A	4.716	4.716	(0.368)	10903763	100.000	97.7(A)
2	chloromethane	AIB1A	5.243	5.243	(0.409)	5455260	100.000	91.1(A)
3	vinyl chloride	AIB1A	5.536	5.536	(0.432)	9692699	100.000	81.1(A)
4	bromomethane	AIB1A	6.496	6.496	(0.507)	8247924	100.000	99.0(A)
5	chloroethane	AIB1A	6.703	6.703	(0.523)	15660820	100.000	86.0(A)
6	trichlorofluoromethane	AIB1A	7.213	7.213	(0.563)	13511674	100.000	94.7(A)
7	1,2,2-Trichlorotrifluoroethan	AIB1A	8.136	8.136	(0.635)	15534660	100.000	87.5
8	1,1-dichloroethene	AIB1A	8.510	8.510	(0.664)	22760729	100.000	82.8(A)
9	methylene chloride	AIB1A	9.383	9.383	(0.732)	26146483	100.000	82.9(A)
10	MTBE	FID2B	9.686	9.686	(0.659)	2071053	100.000	104
11	trans 1,2-dichloroethene	AIB1A	10.003	10.003	(0.780)	22059079	100.000	79.6(A)
M 12	1,2-Dichloroethene (tot)	AIB1A				42876350	200.000	158
13	1,1-dichloroethane	AIB1A	10.863	10.863	(0.847)	22019640	100.000	80.2(A)
14	cis-1,2-dichloroethene	AIB1A	12.126	12.126	(0.946)	20817271	100.000	78.2(A)
15	chloroform	AIB1A	12.460	12.460	(0.972)	27336280	100.000	78.6(A)
* 16	Bromochloromethane	AIB1A	12.823	12.823	(1.000)	6419104	30.0000	
17	1,1,1-trichloroethane	AIB1A	13.343	13.343	(1.041)	23897205	100.000	79.4(A)

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
	18 carbon tetrachloride	AIB1A	13.923	13.923	(1.086)	27306030	100.000	78.8(A)
	19 1,2-dichloroethane	AIB1A	14.196	14.196	(1.107)	21170343	100.000	79.5(A)
	20 Benzene	FID2B	14.256	14.256	(0.970)	5355228	100.000	92.3
*	21 Fluorobenzene	FID2B	14.693	14.693	(1.000)	1219529	30.0000	
	22 trichloroethene	AIB1A	15.633	15.633	(1.219)	24039984	100.000	75.3(A)
	23 1,2-dichloropropane	AIB1A	16.046	16.046	(1.251)	19644584	100.000	80.8(A)
	24 bromodichloromethane	AIB1A	16.653	16.653	(1.299)	19363907	100.000	84.4(A)
	25 cis-1,3-dichloropropene	AIB1A	18.153	18.153	(1.416)	19463575	100.000	83.4(A)
	26 Toluene	FID2B	19.250	19.250	(1.310)	4959912	100.000	91.5
	27 trans-1,3-dichloropropene	AIB1A	19.816	19.816	(1.545)	17069822	100.000	84.1(A)
	28 1,1,2-trichlorethane	AIB1A	20.430	20.430	(1.593)	20756263	100.000	82.8(A)
	29 tetrachloroethene	AIB1A	21.843	21.843	(1.703)	26830347	100.000	78.0(A)
	30 dibromochloromethane	AIB1A	22.680	22.680	(1.769)	14756087	100.000	90.6(A)
	31 chlorobenzene	AIB1A	25.176	25.176	(1.963)	10776568	100.000	88.6
	32 Ethylbenzene	FID2B	25.366	25.366	(1.726)	4537972	100.000	92.4
	33 m,p-xylene	FID2B	25.653	25.653	(1.746)	10032682	200.000	185
M	34 Xylene (tot)	FID2B				14246872	300.000	277
	35 o-xylene	FID2B	27.210	27.210	(1.852)	4214190	100.000	92.7
	36 bromoform	AIB1A	28.440	28.440	(2.218)	9425209	100.000	95.6(A)
$	37 1,4-dichlorobutane	AIB1A	28.733	28.733	(2.241)	13643906	100.000	84.9(A)
	38 1,1,2,2-tetrachloroethane	AIB1A	28.973	28.973	(2.259)	14105892	100.000	82.0(A)
$	39 4-bromofluorobenzene	FID2B	29.216	29.216	(1.988)	4766990	100.000	96.3(A)
	40 1,3-dichlorobenzene	AIB1A	31.483	31.483	(2.455)	12395465	100.000	82.6
	41 1,4-dichlorobenzene	AIB1A	31.653	31.653	(2.468)	13565997	100.000	84.0
	42 1,2-dichlorobenzene	AIB1A	32.236	32.236	(2.514)	12395596	100.000	85.8

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

PEL Laboratories, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vgc2.i
Lab File ID: 100PPB.D
Lab Smp Id: 100PPB
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\KHOLLEY\EE\chem\vgc2.i\V2051602.b\8021.m
Misc Info:

Calibration Date: 16-MAY-2002
Calibration Time: 16:29
Client Smp ID: 100PPB
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	6556499	3278250	13112998	6419104	-2.10
21 Fluorobenzene	1217117	608559	2434234	1219529	0.20

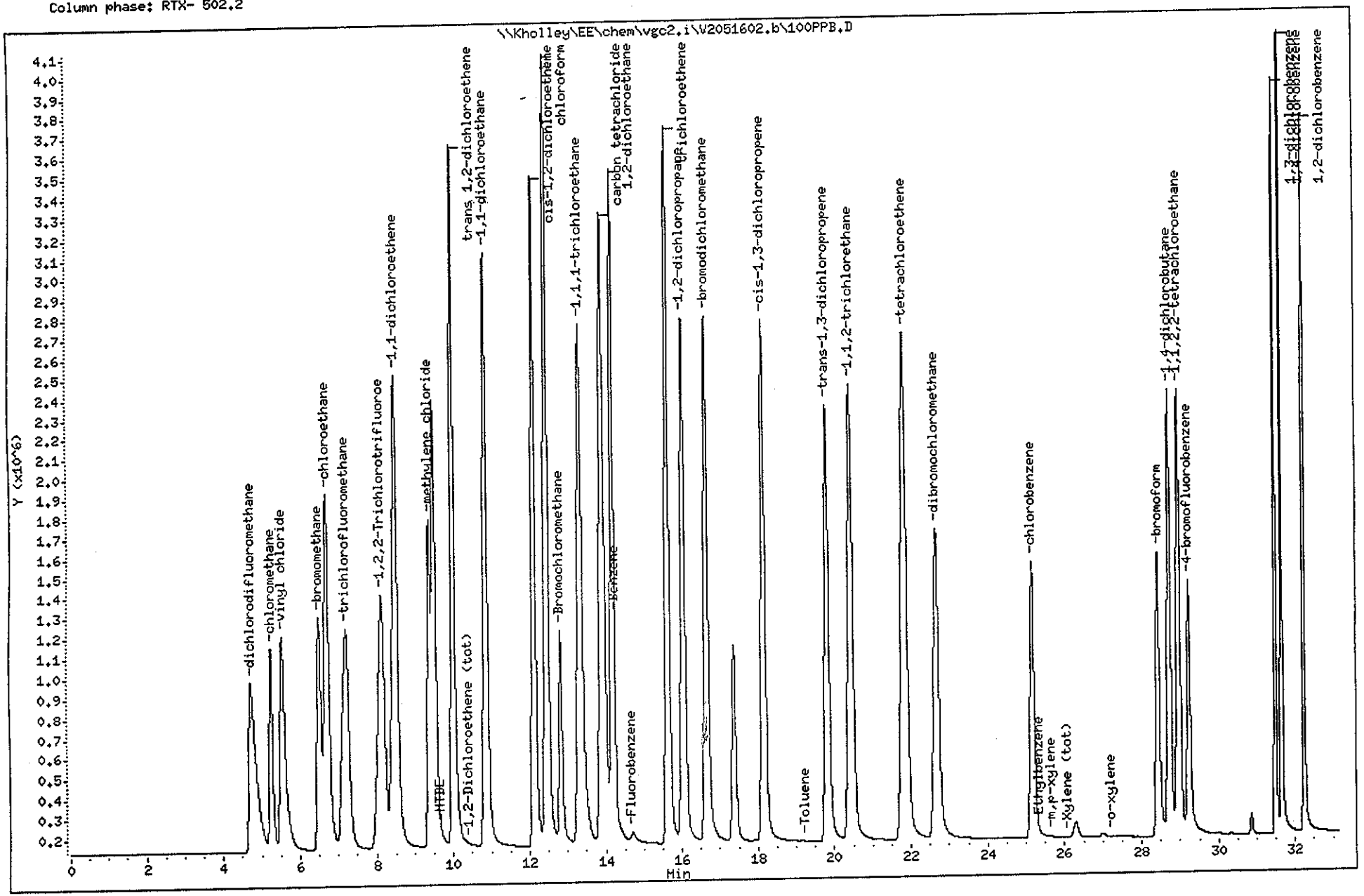
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	12.84	12.34	13.34	12.82	-0.13
21 Fluorobenzene	14.71	14.21	15.21	14.69	-0.09

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\Kholley\EE\chem\vgc2.i\V2051602.b\100PPB.D
Date : 16-MAY-2002 17:50
Client ID: 100PPB
Sample Info: 100PPB
Purge Volume: 5.0
Column phase: RTX- 502.2

Instrument: vgc2.i

Operator:
Column diameter: 0.53



PEL Laboratories, Inc.

Data file : \\Kholley\EE\chem\vgc2.i\V2051602.b\SEC23.D
Lab Smp Id: SEC23 Client Smp ID: SEC23
Inj Date : 16-MAY-2002 19:49
Operator : Inst ID: vgc2.i
Smp Info : SEC23
Misc Info :
Comment :
Method : \\Kholley\EE\chem\vgc2.i\V2051602.b\8021.m
Meth Date : 23-May-2002 09:36 lpelo Quant Type: ISTD
Cal Date : 16-MAY-2002 17:50 Cal File: 100PPB.D
Als bottle: 6 QC Sample: SSC
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.04
Processing Host: FILES

Concentration Formula: Amt * DF * Vf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
1	dichlorodifluoromethane	AIB1A	4.710	4.716	(0.368)	2476402	23.7734	23.8
2	chloromethane	AIB1A	5.236	5.243	(0.409)	1533295	27.4301	27.4
3	vinyl chloride	AIB1A	5.516	5.536	(0.431)	3160332	28.3299	28.3(Q)
4	bromomethane	AIB1A	6.516	6.496	(0.509)	2677369	34.4375	34.4
5	chloroethane	AIB1A	6.706	6.703	(0.524)	4772421	28.0742	28.1
6	trichlorofluoromethane	AIB1A	7.203	7.213	(0.562)	4379232	32.9061	32.9
7	1,2,2-Trichlorotrifluoroethan	AIB1A	8.136	8.136	(0.635)	5296360	31.9711	32.0
8	1,1-dichloroethene	AIB1A	8.490	8.510	(0.663)	7640463	29.8052	29.8
9	methylene chloride	AIB1A	9.373	9.383	(0.732)	9088427	30.8772	30.9
10	MTBE	FID2B	9.666	9.686	(0.659)	660496	35.7952	35.8
11	trans 1,2-dichloroethene	AIB1A	9.996	10.003	(0.780)	7384245	28.5367	28.5
M 12	1,2-Dichloroethene (tot)	AIB1A				14490200	57.1257	57.1
13	1,1-dichloroethane	AIB1A	10.853	10.863	(0.847)	7895011	30.7977	30.8
14	cis-1,2-dichloroethene	AIB1A	12.120	12.126	(0.946)	7105955	28.5890	28.6
15	chloroform	AIB1A	12.450	12.460	(0.972)	9394413	28.9429	28.9
* 16	Bromochloromethane	AIB1A	12.810	12.823	(1.000)	5990240	30.0000	
17	1,1,1-trichloroethane	AIB1A	13.330	13.343	(1.041)	8418021	29.9886	30.0

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	18 carbon tetrachloride	AIB1A	13.910	13.923	(1.086)	9510716	29.3954	29.4
	19 1,2-dichloroethane	AIB1A	14.183	14.196	(1.107)	7561860	30.4404	30.4
	20 Benzene	FID2B	14.246	14.256	(0.971)	1635347	30.4156	30.4
*	21 Fluorobenzene	FID2B	14.676	14.693	(1.000)	1129968	30.0000	
	22 trichloroethene	AIB1A	15.626	15.633	(1.220)	8674908	29.1277	29.1
	23 1,2-dichloropropane	AIB1A	16.036	16.046	(1.252)	7074713	31.1814	31.2
	24 bromodichloromethane	AIB1A	16.636	16.653	(1.299)	6622717	30.9284	30.9
	25 cis-1,3-dichloropropene	AIB1A	18.130	18.153	(1.415)	6906634	31.7175	31.7
	26 Toluene	FID2B	19.230	19.250	(1.310)	1536531	30.5918	30.6
	27 trans-1,3-dichloropropene	AIB1A	19.800	19.816	(1.546)	5729919	30.2472	30.2
	28 1,1,2-trichlorethane	AIB1A	20.410	20.430	(1.593)	7130679	30.4793	30.5
	29 tetrachloroethene	AIB1A	21.816	21.843	(1.703)	9304393	28.9745	29.0
	30 dibromochloromethane	AIB1A	22.653	22.680	(1.768)	4806116	31.6045	31.6
	31 chlorobenzene	AIB1A	25.163	25.176	(1.964)	3716643	32.7510	32.8
	32 Ethylbenzene	FID2B	25.343	25.366	(1.727)	1376519	30.2360	30.2
	33 m,p-xylene	FID2B	25.636	25.653	(1.747)	3101719	61.6140	61.6
M	34 Xylene (tot)	FID2B				4439854	93.3708	93.4
	35 o-xylene	FID2B	27.190	27.210	(1.853)	1338135	31.7567	31.8
	36 bromoform	AIB1A	28.420	28.440	(2.219)	2889791	31.4064	31.4
$	37 1,4-dichlorobutane	AIB1A	28.723	28.733	(2.242)	4219344	28.1371	28.1
	38 1,1,2,2-tetrachloroethane	AIB1A	28.960	28.973	(2.261)	4873978	30.3453	30.3
$	39 4-bromofluorobenzene	FID2B	29.200	29.216	(1.990)	1336874	29.1526	29.2
	40 1,3-dichlorobenzene	AIB1A	31.476	31.483	(2.457)	4526297	32.3098	32.3
	41 1,4-dichlorobenzene	AIB1A	31.643	31.653	(2.470)	4928253	32.7009	32.7
	42 1,2-dichlorobenzene	AIB1A	32.226	32.236	(2.516)	4471457	33.1748	33.2

QC Flag Legend

Q - Qualifier signal failed the ratio test.

PEL Laboratories, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vgc2.i
Lab File ID: SEC23.D
Lab Smp Id: SEC23
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\Kholley\EE\chem\vgc2.i\V2051602.b\8021.m
Misc Info:

Calibration Date: 16-MAY-2002
Calibration Time: 16:29
Client Smp ID: SEC23
Level: LOW
Sample Type: WATER

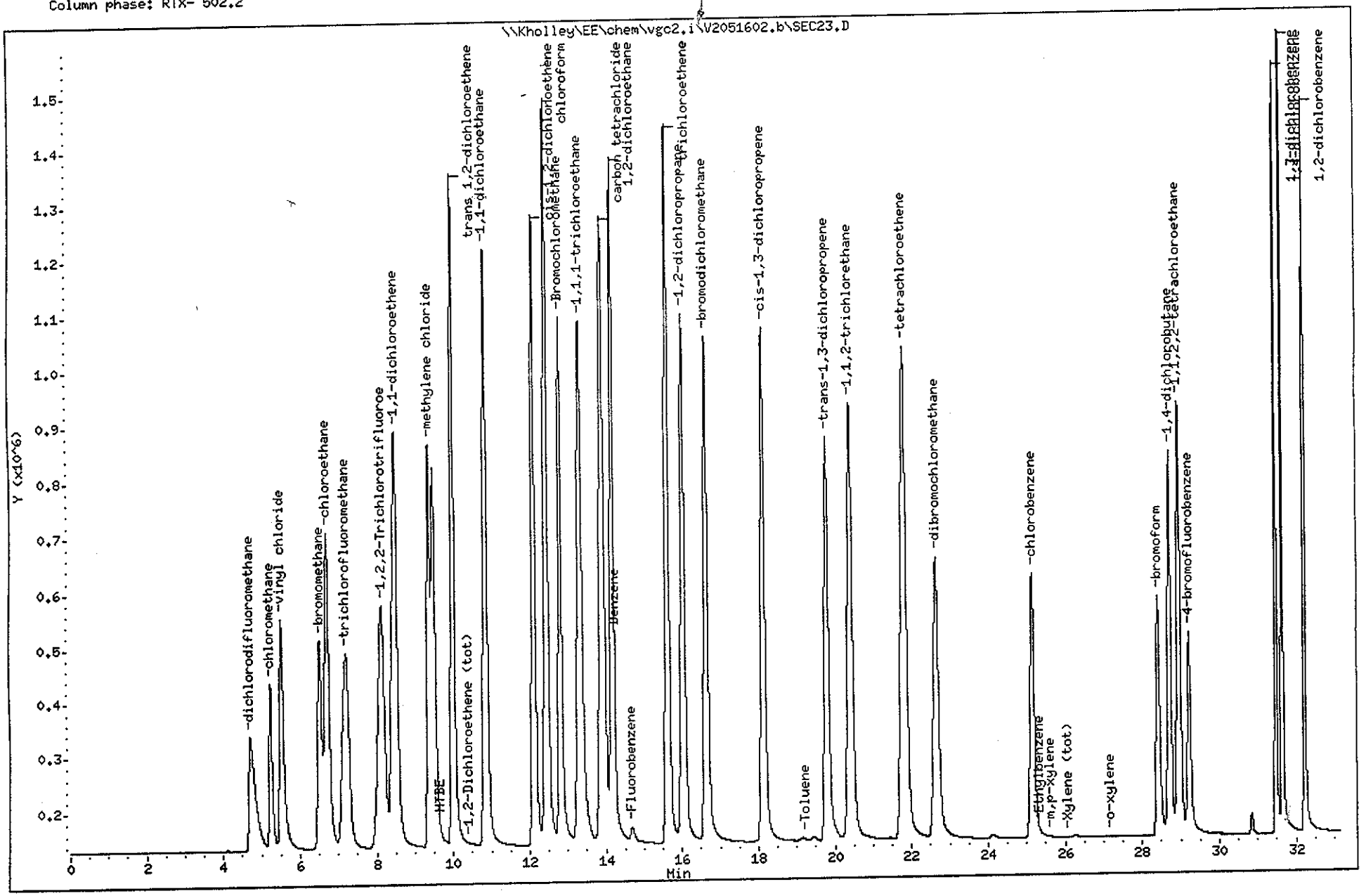
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	6556499	3278250	13112998	5990240	-8.64
21 Fluorobenzene	1217117	608559	2434234	1129968	-7.16

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	12.84	12.34	13.34	12.81	-0.23
21 Fluorobenzene	14.71	14.21	15.21	14.68	-0.20

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\Kholley\EE\chem\vgc2.i\V2051602.b\SEC23.D
Date : 16-MAY-2002 19:49
Client ID: SEC23
Sample Info: SEC23
Purge Volume: 5.0
Column phase: RTX- 502.2

Instrument: vgc2.i
Operator:
Column diameter: 0.53



PEL Laboratories, Inc.

Data file : \\Kholley\EE\chem\vgc2.i\V2051702.b\CCV22.D
Lab Smp Id: 0517CCV22 Client Smp ID: 0517CCV22
Inj Date : 17-MAY-2002 07:10
Operator : Inst ID: vgc2.i
Smp Info : 0517CCV22
Misc Info :
Comment :
Method : \\Kholley\EE\chem\vgc2.i\V2051702.b\8021.m
Meth Date : 23-May-2002 09:14 lpelo Quant Type: ISTD
Cal Date : 16-MAY-2002 17:50 Cal File: 100PPB.D
Als bottle: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8021rl.sub
Target Version: 4.04
Processing Host: FILES

Concentration Formula: Amt * DF * Vf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
1	dichlorodifluoromethane	AIB1A	4.716	4.716	(0.368)	3742340	34.2958	34.3
2	chloromethane	AIB1A	5.236	5.243	(0.409)	1935235	33.0494	33.0
3	vinyl chloride	AIB1A	5.530	5.540	(0.432)	3965669	33.9358	33.9
4	bromomethane	AIB1A	6.516	6.523	(0.509)	2807190	34.4686	34.5
5	chloroethane	AIB1A	6.710	6.716	(0.524)	5738975	32.2279	32.2
6	trichlorofluoromethane	AIB1A	7.210	7.210	(0.563)	5676797	40.7202	40.7
8	1,1-dichloroethene	AIB1A	8.483	8.503	(0.663)	7982085	29.7247	29.7
9	methylene chloride	AIB1A	9.366	9.506	(0.732)	9135323	29.6279	29.6
10	MTBE	FID2B	9.653	9.666	(0.658)	652901	32.1905	32.2
11	trans 1,2-dichloroethene	AIB1A	9.990	10.006	(0.780)	8055651	29.7185	29.7
13	1,1-dichloroethane	AIB1A	10.843	10.856	(0.847)	7805805	29.0678	29.1
14	cis-1,2-dichloroethene	AIB1A	12.110	12.123	(0.946)	7499598	28.8034	28.8
M 12	1,2-Dichloroethene (tot)	AIB1A				15555249	58.5219	58.5
15	chloroform	AIB1A	12.440	12.456	(0.972)	9688219	28.4935	28.5
* 16	Bromochloromethane	AIB1A	12.803	12.816	(1.000)	6275028	30.0000	
17	1,1,1-trichloroethane	AIB1A	13.326	13.343	(1.041)	8318659	28.2897	28.3
18	carbon tetrachloride	AIB1A	13.903	13.920	(1.086)	9626294	28.4023	28.4

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	19 1,2-dichloroethane	AIB1A	14.176	14.190	(1.107)	7208136	27.6996	27.7
	20 Benzene	FID2B	14.240	14.256	(0.971)	1721980	29.1367	29.1
*	21 Fluorobenzene	FID2B	14.666	14.683	(1.000)	1242053	30.0000	
	22 trichloroethene	AIB1A	15.610	15.630	(1.219)	8767381	28.1021	28.1
	23 1,2-dichloropropane	AIB1A	16.026	16.040	(1.252)	6846049	28.8042	28.8
	24 bromodichloromethane	AIB1A	16.626	16.646	(1.299)	6495278	28.9566	29.0
	25 cis-1,3-dichloropropene	AIB1A	18.123	18.150	(1.416)	6429802	28.1876	28.2
	26 Toluene	FID2B	19.213	19.240	(1.310)	1585874	28.7249	28.7
	27 trans-1,3-dichloropropene	AIB1A	19.786	19.810	(1.545)	5728847	28.8690	28.9
	28 1,1,2-trichlorethane	AIB1A	20.403	20.433	(1.594)	6996801	28.5497	28.5
	29 tetrachloroethene	AIB1A	21.793	21.830	(1.702)	9617064	28.5890	28.6
	30 dibromochloromethane	AIB1A	22.633	22.666	(1.768)	4868344	30.5608	30.6
	31 chlorobenzene	AIB1A	25.143	25.176	(1.964)	3605823	30.3324	30.3
	32 Ethylbenzene	FID2B	25.330	25.356	(1.727)	1441125	28.7985	28.8
	33 m,p-xylene	FID2B	25.620	25.650	(1.747)	3200566	57.8402	57.8
	35 o-xylene	FID2B	27.176	27.203	(1.853)	1337833	28.8844	28.9
	36 bromoform	AIB1A	28.410	28.423	(2.219)	2867501	29.7498	29.7
M	34 Xylene (tot)	FID2B				4538399	86.7247	86.7
$	37 1,4-dichlorobutane	AIB1A	28.706	28.730	(2.242)	4442086	28.2781	28.3
	38 1,1,2,2-tetrachloroethane	AIB1A	28.950	28.970	(2.261)	4543252	27.0024	27.0
$	39 4-bromofluorobenzene	FID2B	29.190	29.206	(1.990)	1434905	28.4666	28.5
	40 1,3-dichlorobenzene	AIB1A	31.470	31.483	(2.458)	4356208	29.6844	29.7
	41 1,4-dichlorobenzene	AIB1A	31.640	31.650	(2.471)	4674113	29.6070	29.6
	42 1,2-dichlorobenzene	AIB1A	32.220	32.230	(2.517)	4208515	29.8069	29.8

PEL Laboratories, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vgc2.i
Lab File ID: CCV22.D
Lab Smp Id: 0517CCV22
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\Kholley\EE\chem\vgc2.i\V2051702.b\8021.m
Misc Info:

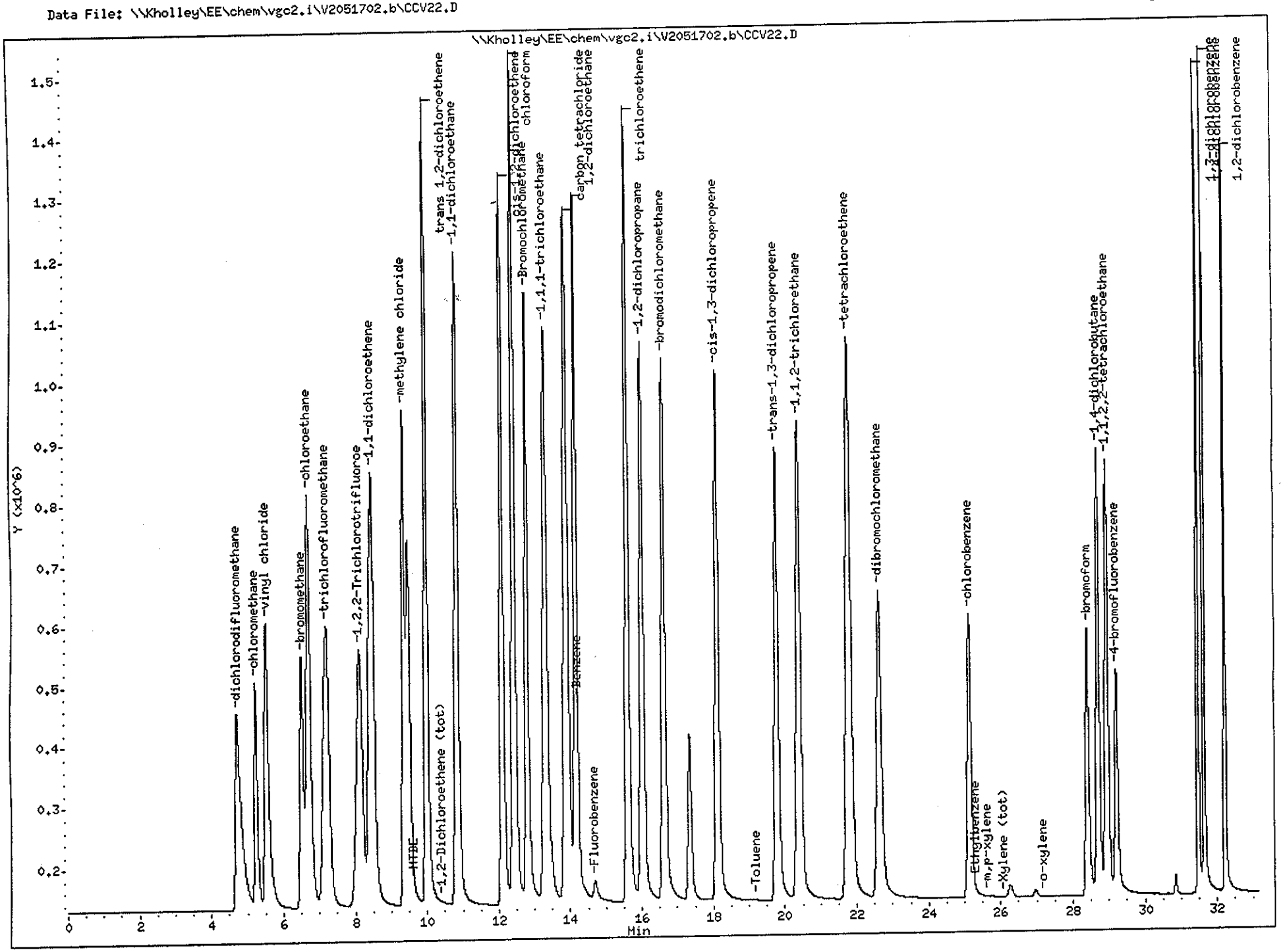
Calibration Date: 17-MAY-2002
Calibration Time: 21:18
Client Smp ID: 0517CCV22
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	6476764	3238382	12953528	6275028	-3.11
21 Fluorobenzene	1140461	570231	2280922	1242053	8.91

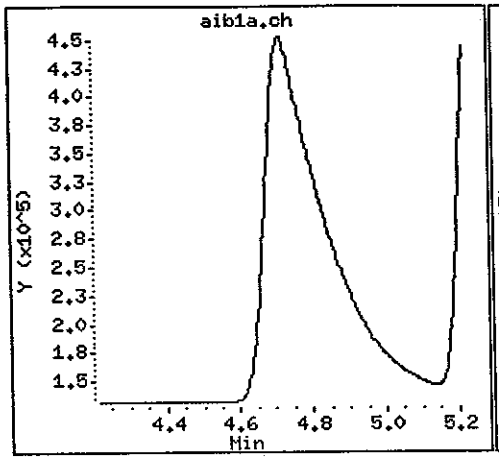
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	12.82	12.32	13.32	12.80	-0.10
21 Fluorobenzene	14.68	14.18	15.18	14.67	-0.11

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

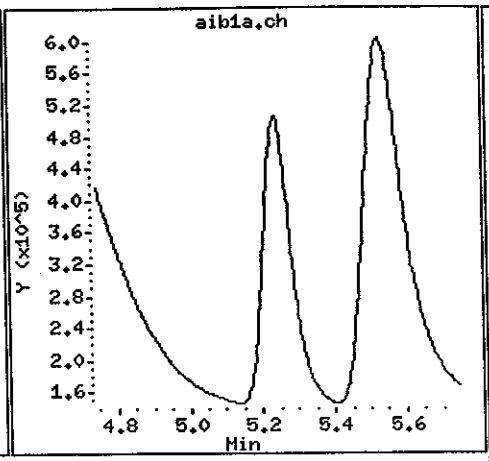
Data File: \\Kholley\EE\chem\vgc2.i\V2051702.b\CCV22.D



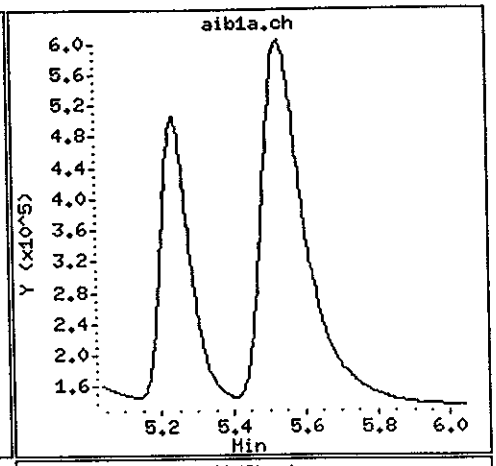
1 dichlorodifluoromethane

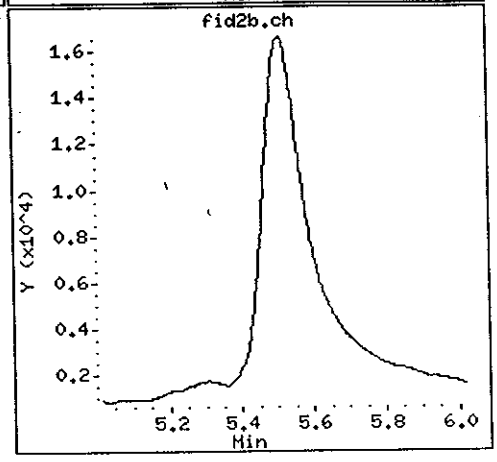


2 chloromethane

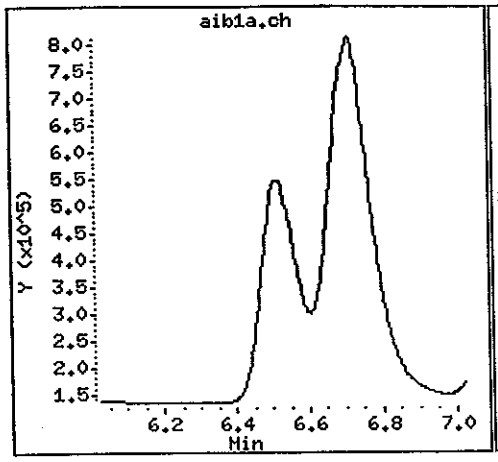


3 vinyl chloride

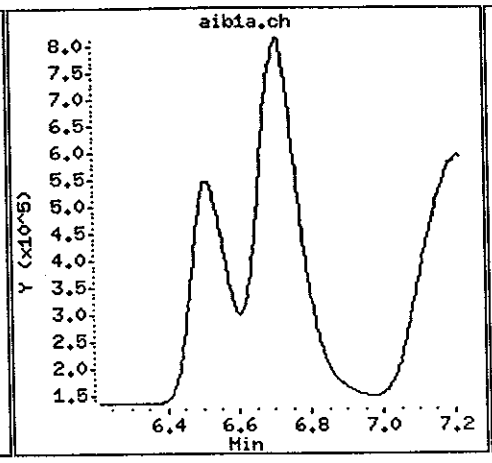




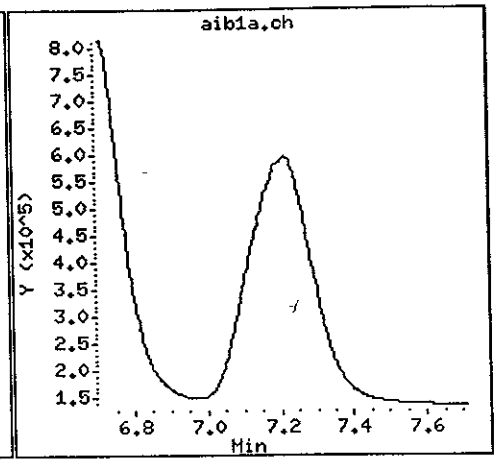
4 bromomethane



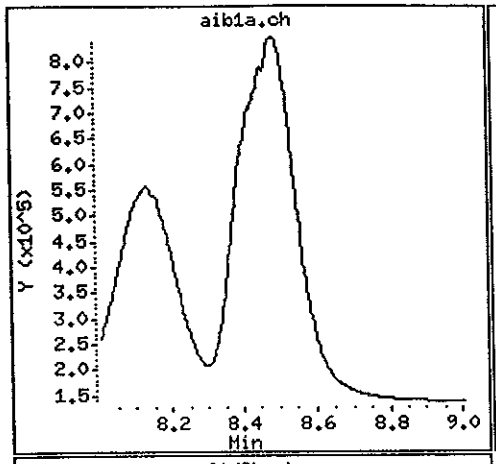
5 chloroethane



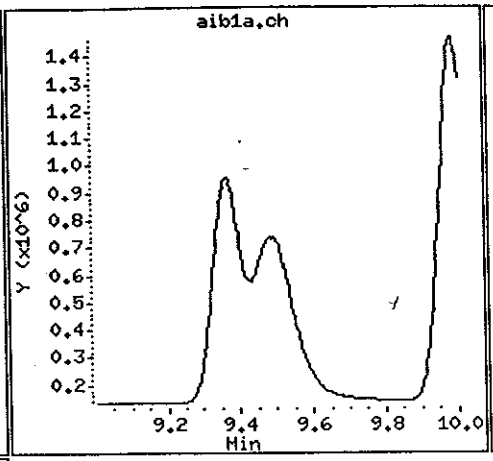
6 trichlorofluoromethane



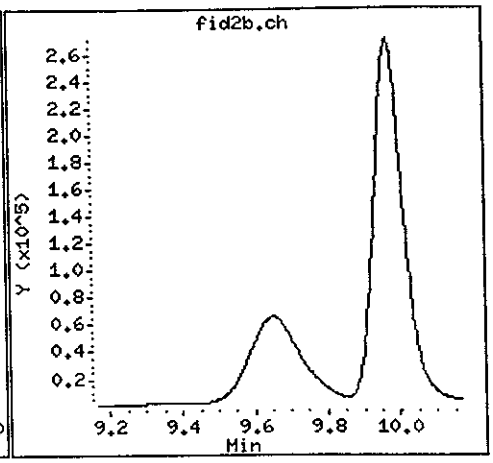
8 1,1-dichloroethene

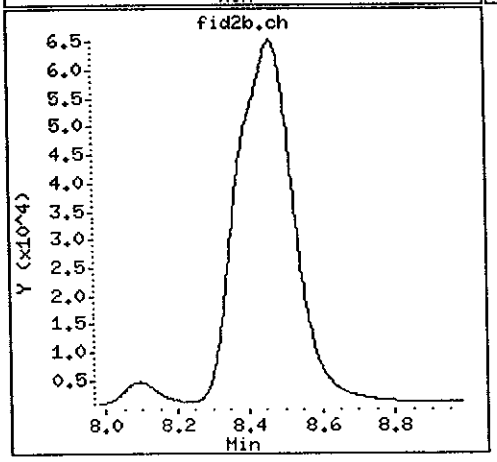


9 methylene chloride

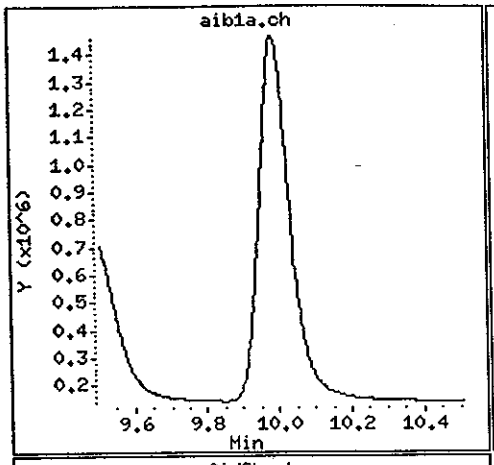


10 MTBE

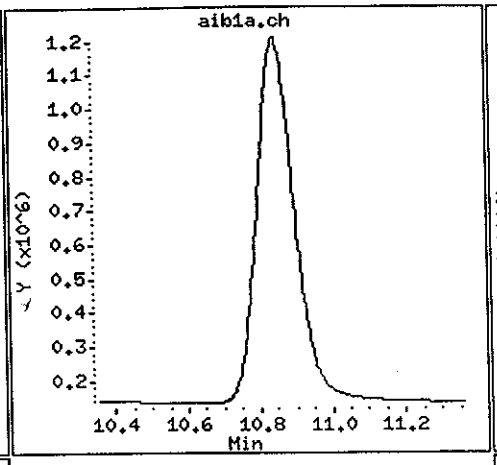




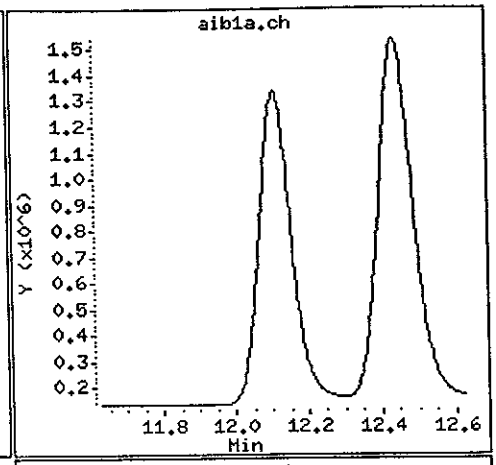
11 trans 1,2-dichloroethene

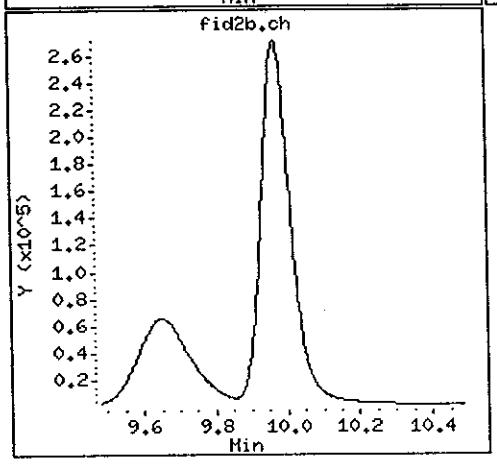


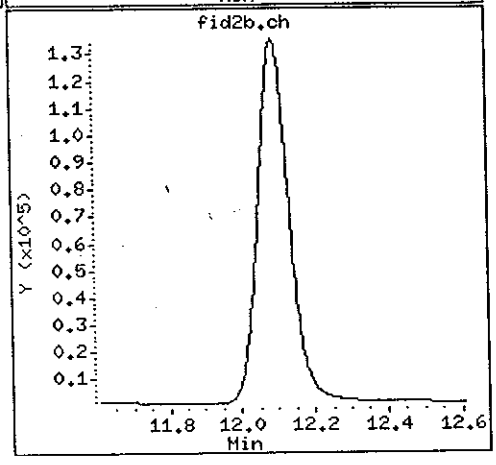
13 1,1-dichloroethane



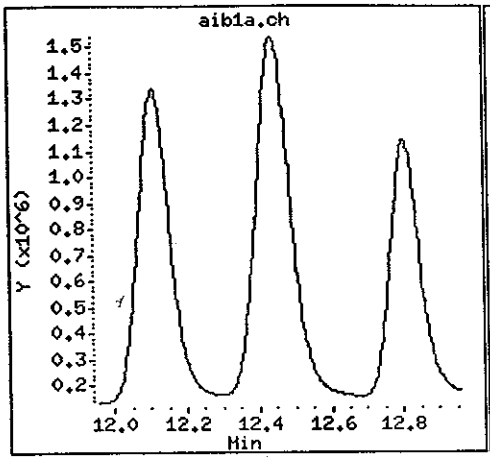
14 cis-1,2-dichloroethene



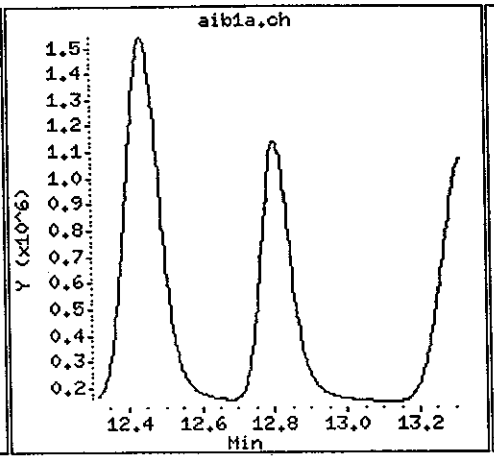




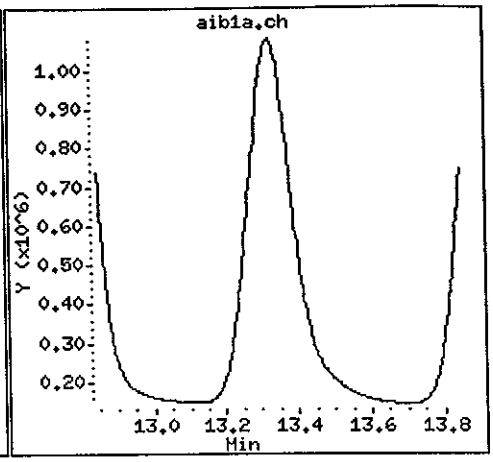
15 chloroform



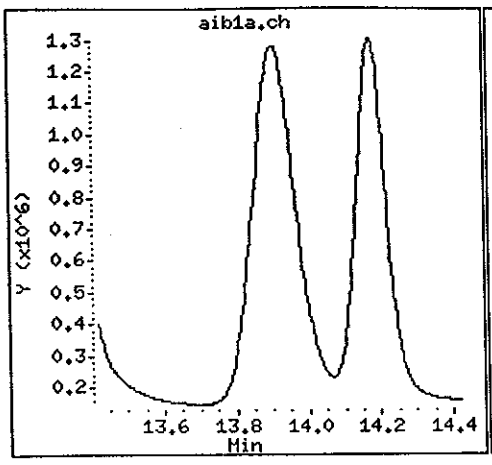
* 16 Bromochloromethane



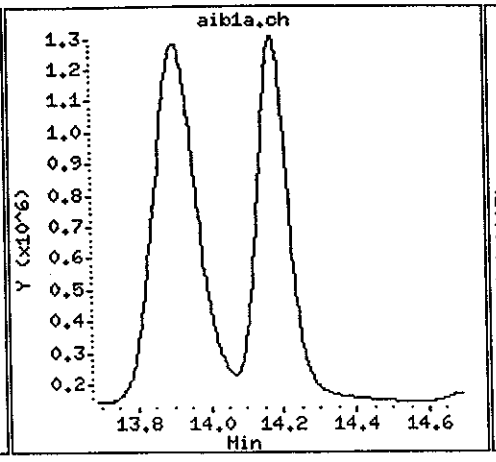
17 1,1,1-trichloroethane



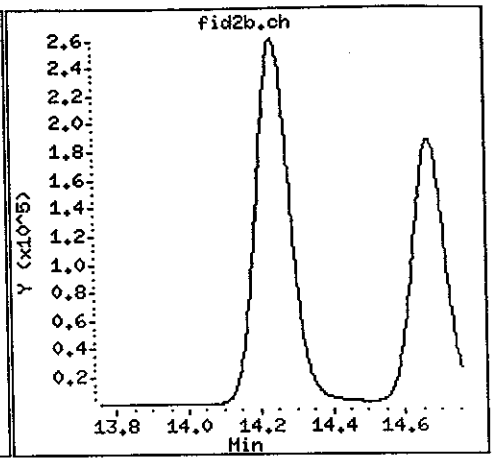
18 carbon tetrachloride



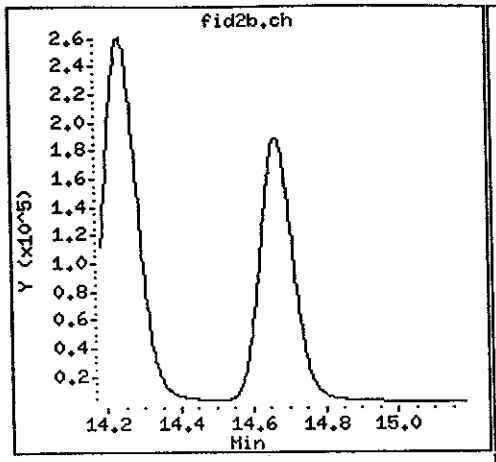
19 1,2-dichloroethane



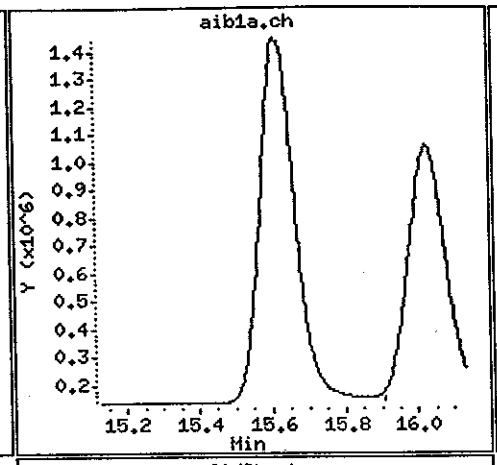
20 Benzene



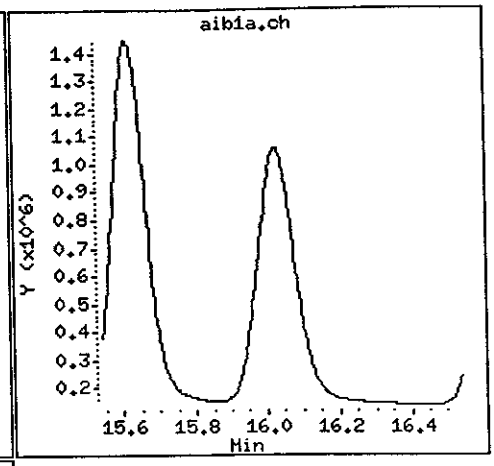
* 21 Fluorobenzene

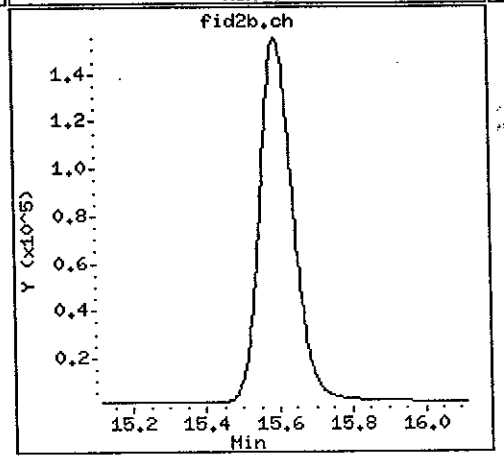


22 trichloroethene

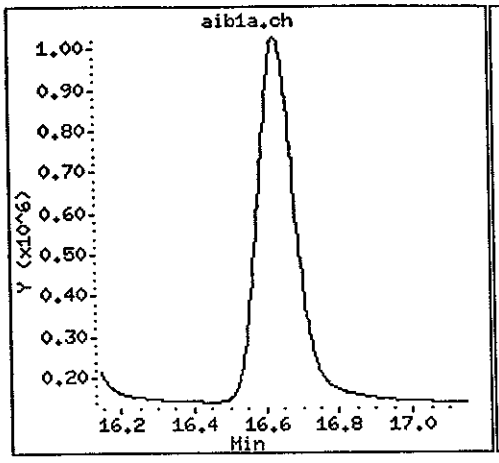


23 1,2-dichloropropane

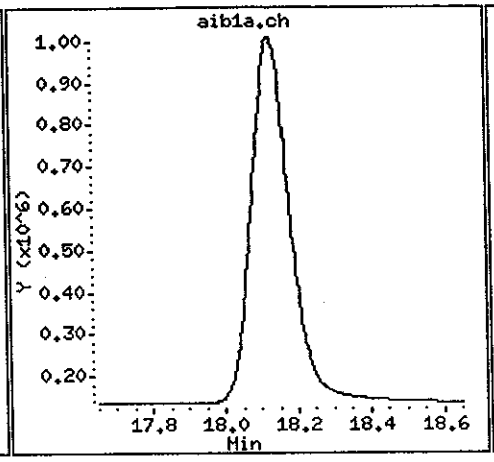




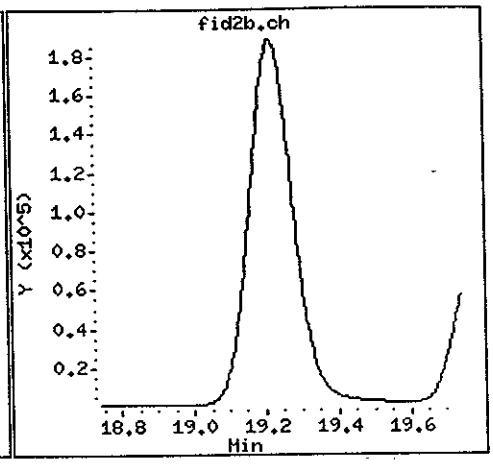
24 bromodichloromethane



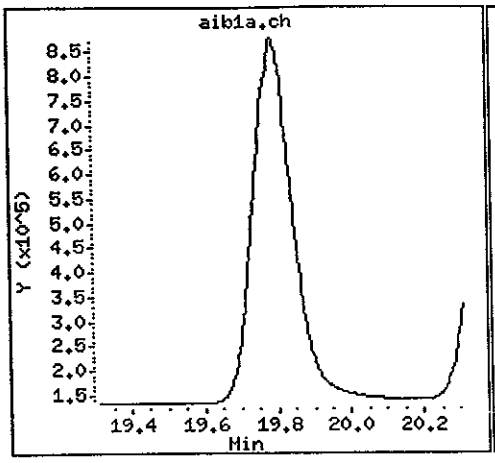
25 cis-1,3-dichloropropene



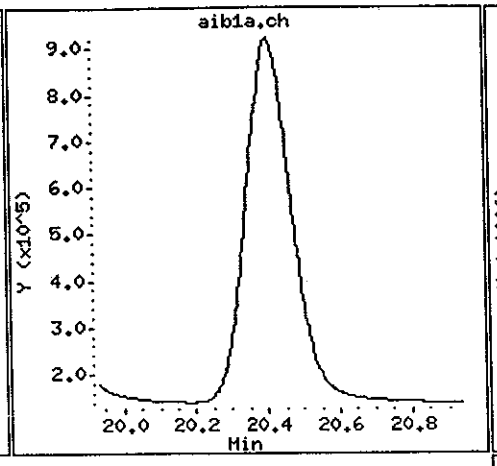
26 Toluene



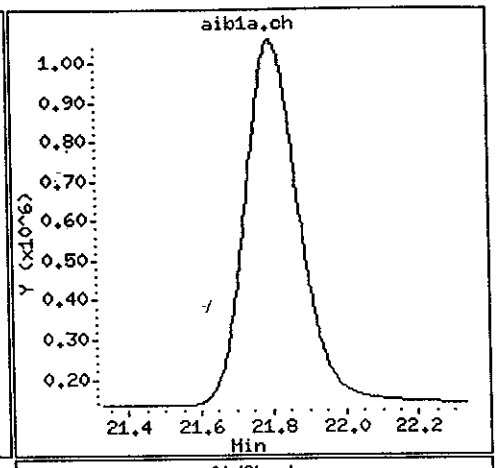
27 trans-1,3-dichloropropen

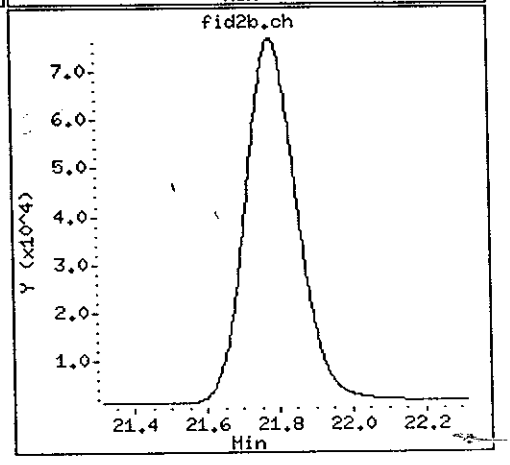


28 1,1,2-trichlorethane

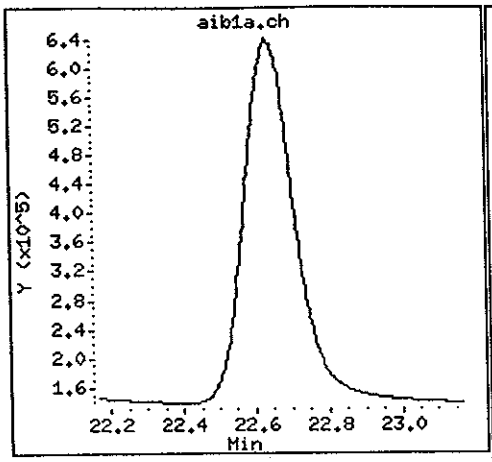


29 tetrachloroethene

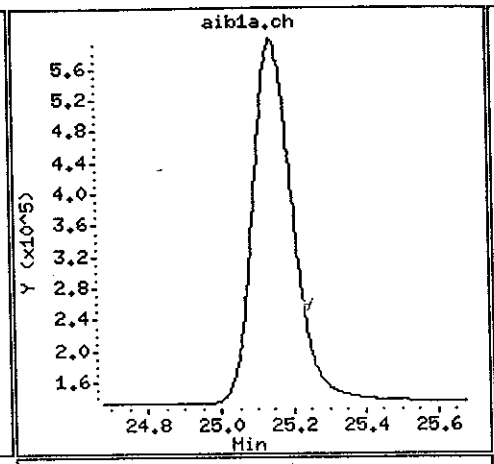




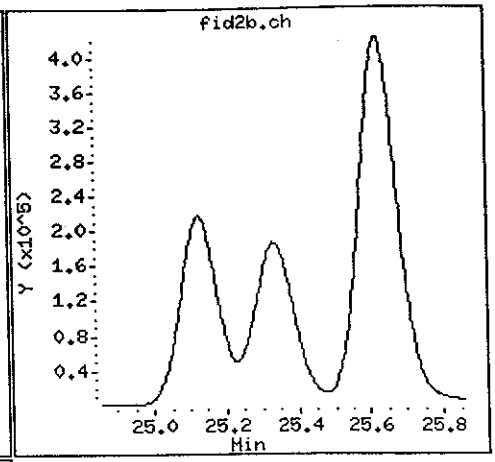
30 dibromochloromethane

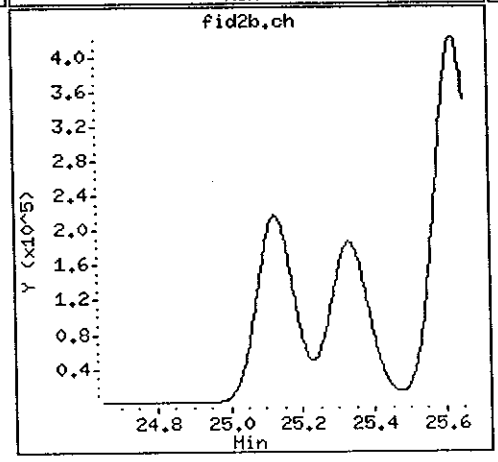


31 chlorobenzene

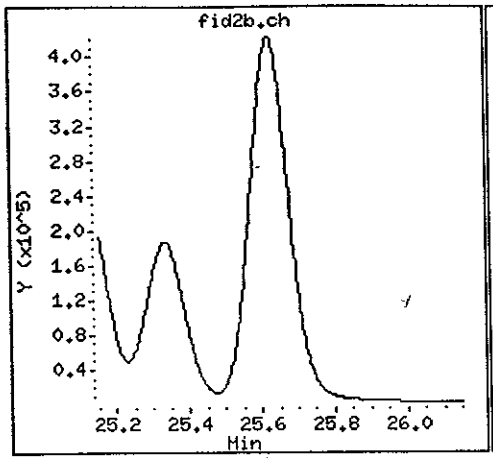


32 Ethylbenzene

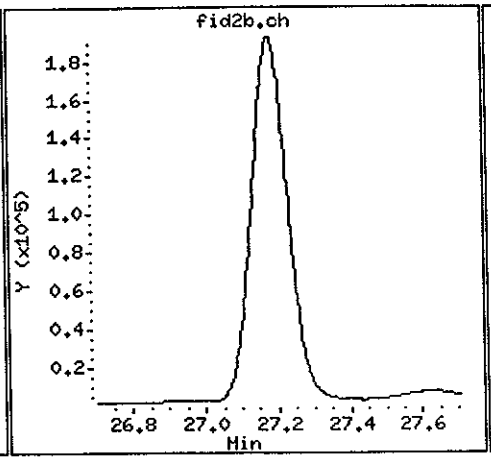




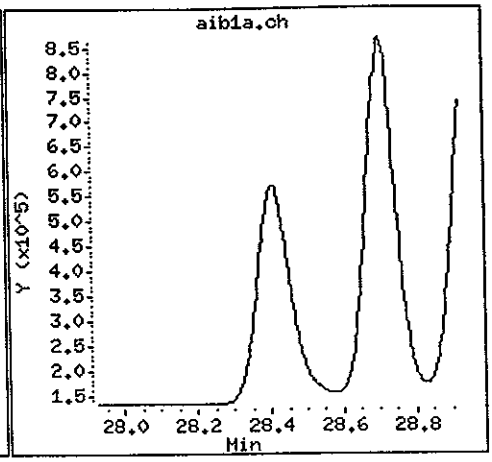
33 m,p-xylene



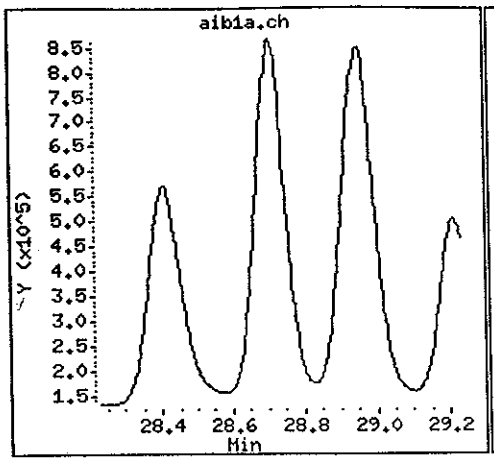
35 o-xylene



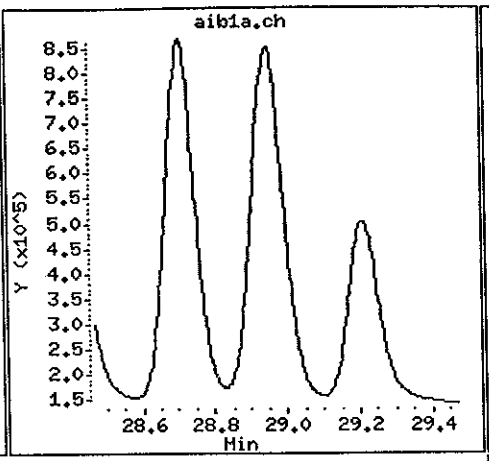
36 bromoform



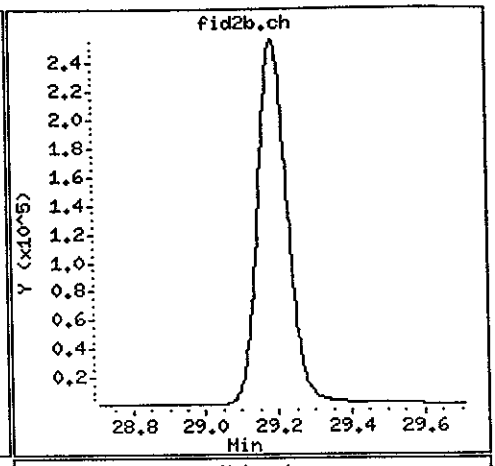
$ 37 1,4-dichlorobutane

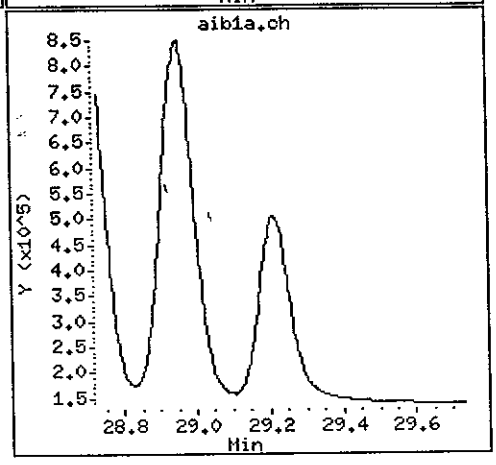


38 1,1,2,2-tetrachloroethan



$ 39 4-bromofluorobenzene

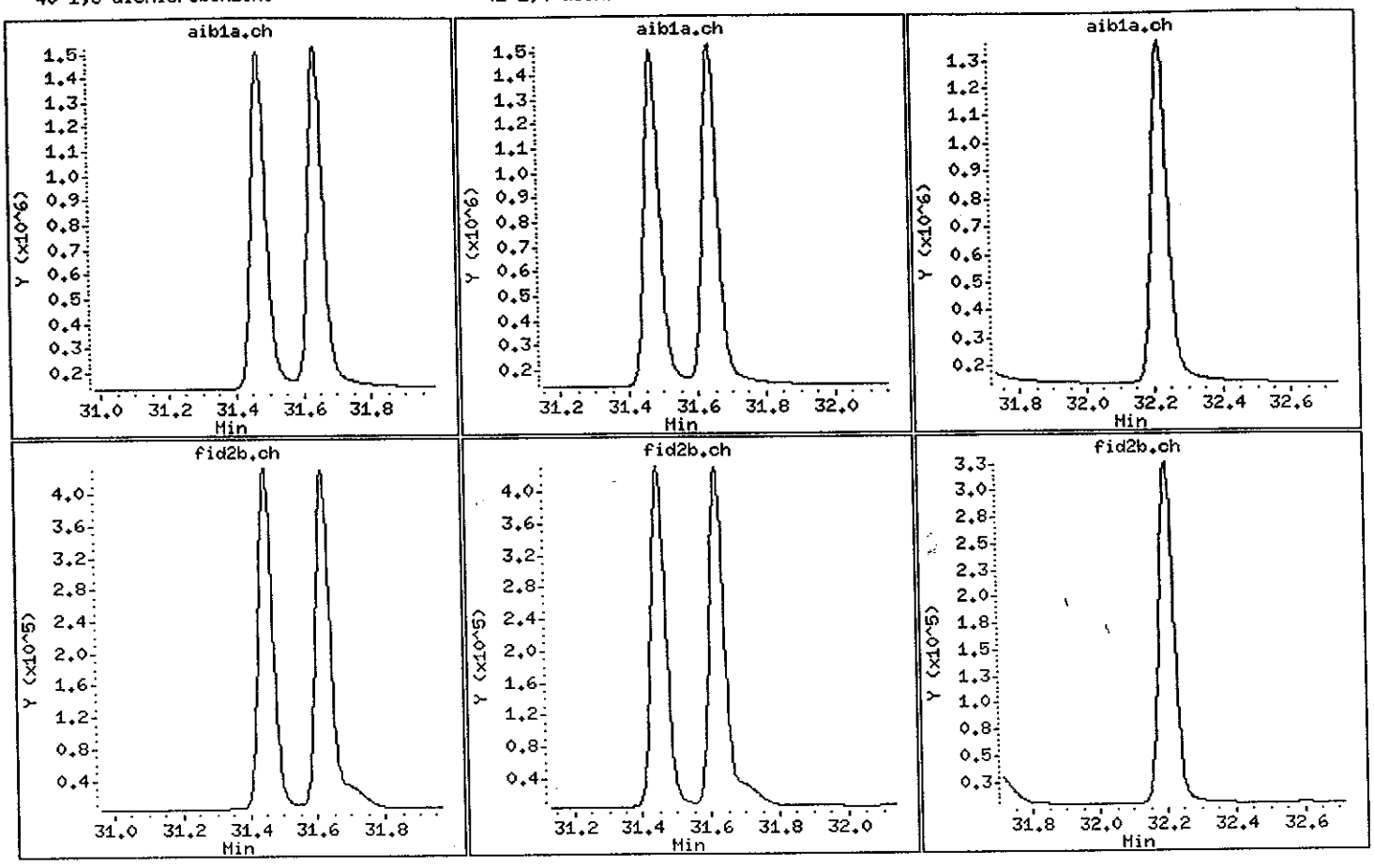




40 1,3-dichlorobenzene

41 1,4-dichlorobenzene

42 1,2-dichlorobenzene



PEL Laboratories, Inc.

Data file : \\Kholley\EE\chem\vgc2.i\V2051702.b\LCS21.D
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Inj Date : 17-MAY-2002 07:50
Operator : Inst ID: vgc2.i
Smp Info : 0517LCS21
Misc Info :
Comment :
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Meth Date : 23-May-2002 09:14 lpelo Quant Type: ISTD
Cal Date : 16-MAY-2002 17:50 Cal File: 100PPB.D
Als bottle: 3 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8021rl.sub
Target Version: 4.04
Processing Host: FILES

Concentration Formula: Amt * DF * Vf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
1	dichlorodifluoromethane	AIB1A	4.706	4.716	(0.368)	897569	8.42704	8.4
2	chloromethane	AIB1A	5.236	5.243	(0.409)	455501	7.96944	8.0
3	vinyl chloride	AIB1A	5.526	5.540	(0.432)	1205096	10.5651	10.6(Q)
4	bromomethane	AIB1A	6.516	6.523	(0.509)	981134	12.3421	12.3
5	chloroethane	AIB1A	6.713	6.716	(0.524)	1803109	10.3736	10.4
6	trichlorofluoromethane	AIB1A	7.196	7.210	(0.562)	1832185	13.4643	13.5
8	1,1-dichloroethene	AIB1A	8.473	8.503	(0.662)	2874331	10.9660	11.0
9	methylene chloride	AIB1A	9.363	9.506	(0.731)	3417789	11.3562	11.4
10	MTBE	FID2B	9.653	9.666	(0.658)	228023	11.2446	11.2
11	trans 1,2-dichloroethene	AIB1A	9.993	10.006	(0.781)	2792294	10.5535	10.6
13	1,1-dichloroethane	AIB1A	10.846	10.856	(0.847)	2876643	10.9746	11.0
14	cis-1,2-dichloroethene	AIB1A	12.113	12.123	(0.946)	2662603	10.4766	10.5
M 12	1,2-Dichloroethene (tot)	AIB1A				5454897	21.0301	21.0
15	chloroform	AIB1A	12.443	12.456	(0.972)	3557148	10.7180	10.7
* 16	Bromochloromethane	AIB1A	12.803	12.816	(1.000)	6125010	30.0000	
17	1,1,1-trichloroethane	AIB1A	13.326	13.343	(1.041)	3155507	10.9939	11.0
18	carbon tetrachloride	AIB1A	13.910	13.920	(1.086)	3650315	11.0340	11.0

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	19 1,2-dichloroethane	AIB1A	14.176	14.190	(1.107)	2716269	10.6938	10.7
	20 Benzene	FID2B	14.240	14.256	(0.971)	568140	9.61511	9.6
*	21 Fluorobenzene	FID2B	14.670	14.683	(1.000)	1241806	30.0000	
	22 trichloroethene	AIB1A	15.620	15.630	(1.220)	3298549	10.8318	10.8
	23 1,2-dichloropropane	AIB1A	16.026	16.040	(1.252)	2649070	11.4187	11.4
	24 bromodichloromethane	AIB1A	16.636	16.646	(1.299)	2291532	10.4661	10.5
	25 cis-1,3-dichloropropene	AIB1A	18.133	18.150	(1.416)	2512948	11.2863	11.3
	26 Toluene	FID2B	19.223	19.240	(1.310)	536740	9.72390	9.7
	27 trans-1,3-dichloropropene	AIB1A	19.793	19.810	(1.546)	2097859	10.8305	10.8
	28 1,1,2-trichlorethane	AIB1A	20.410	20.433	(1.594)	2723782	11.3863	11.4
	29 tetrachloroethene	AIB1A	21.803	21.830	(1.703)	3655903	11.1342	11.1
	30 dibromochloromethane	AIB1A	22.656	22.666	(1.770)	1603539	10.3127	10.3(M)
	31 chlorobenzene	AIB1A	25.156	25.176	(1.965)	1280087	11.0319	11.0
	32 Ethylbenzene	FID2B	25.340	25.356	(1.727)	479417	9.58225	9.6
	33 m,p-xylene	FID2B	25.633	25.650	(1.747)	1075472	19.4397	19.4
	35 o-xylene	FID2B	27.193	27.203	(1.854)	461135	9.95810	10
	36 bromoform	AIB1A	28.420	28.423	(2.220)	930446	9.88965	9.9
M	34 Xylene (tot)	FID2B				1536607	29.3978	29.4
$	37 1,4-dichlorobutane	AIB1A	28.720	28.730	(2.243)	4258580	27.7739	27.8
	38 1,1,2,2-tetrachloroethane	AIB1A	28.956	28.970	(2.262)	1764063	10.7414	10.7
$	39 4-bromofluorobenzene	FID2B	29.203	29.206	(1.991)	1414970	28.0767	28.1
	40 1,3-dichlorobenzene	AIB1A	31.476	31.483	(2.458)	1583972	11.0580	11.0
	41 1,4-dichlorobenzene	AIB1A	31.646	31.650	(2.472)	1729723	11.2249	11.2
	42 1,2-dichlorobenzene	AIB1A	32.230	32.230	(2.517)	1567798	11.3759	11.4

QC Flag Legend

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

PEL Laboratories, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vgc2.i
Lab File ID: LCS21.D
Lab Smp Id: 0517LCS21
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\Kholley\EE\chem\vgc2.i\V2051702.b\8021.m
Misc Info:

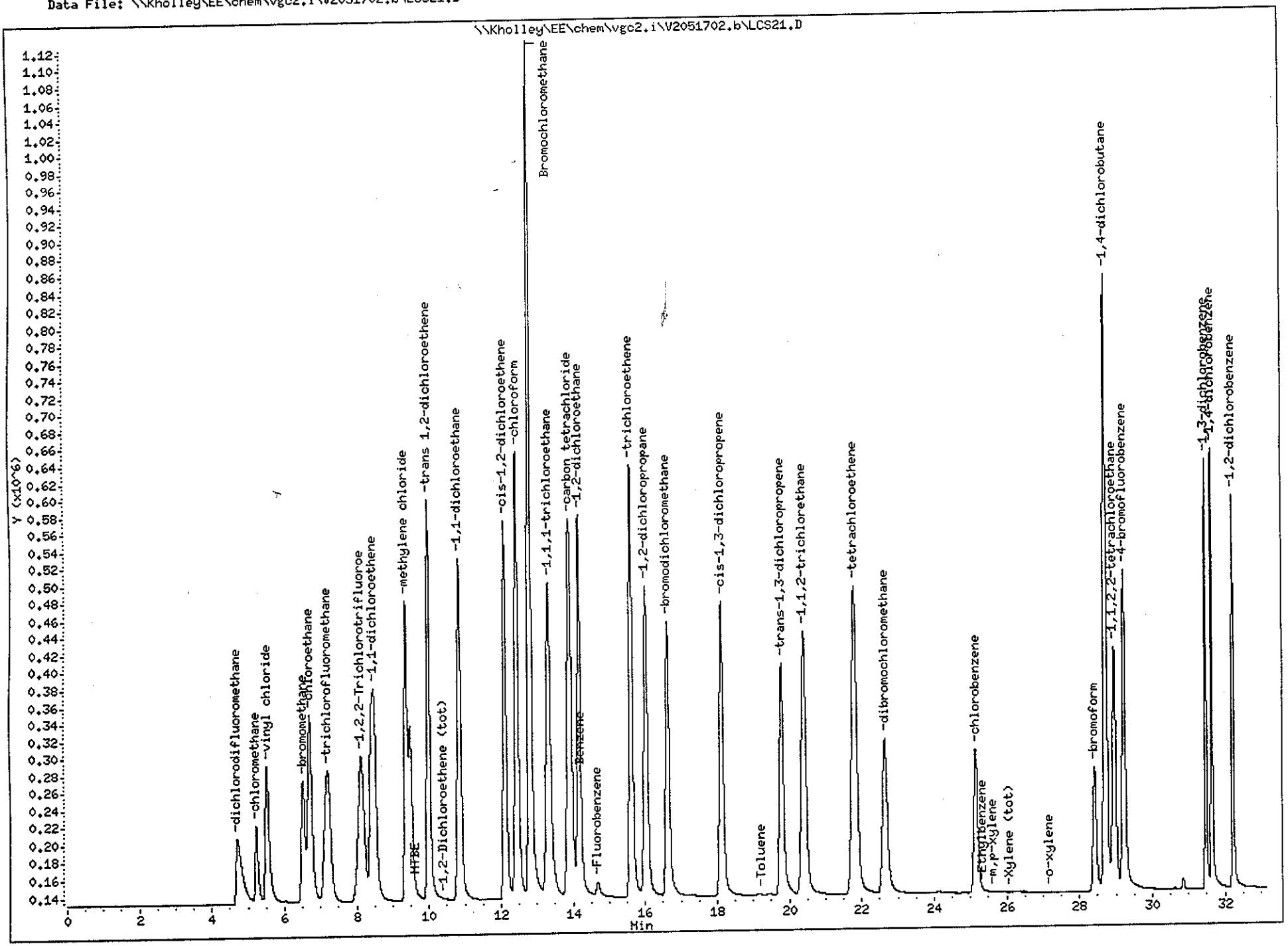
Calibration Date: 17-MAY-2002
Calibration Time: 21:18
Client Smp ID: 0517LCS21
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	6476764	3238382	12953528	6125010	-5.43
21 Fluorobenzene	1140461	570231	2280922	1241806	8.89

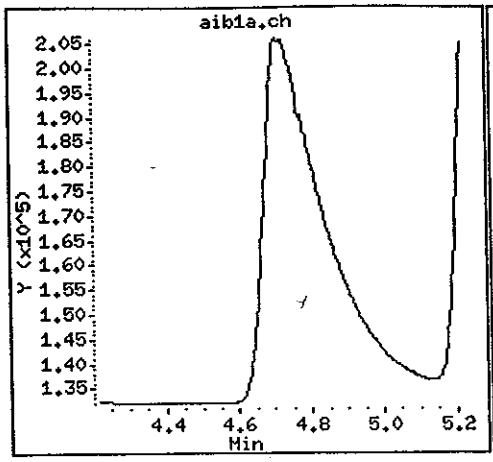
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	12.82	12.32	13.32	12.80	-0.10
21 Fluorobenzene	14.68	14.18	15.18	14.67	-0.09

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

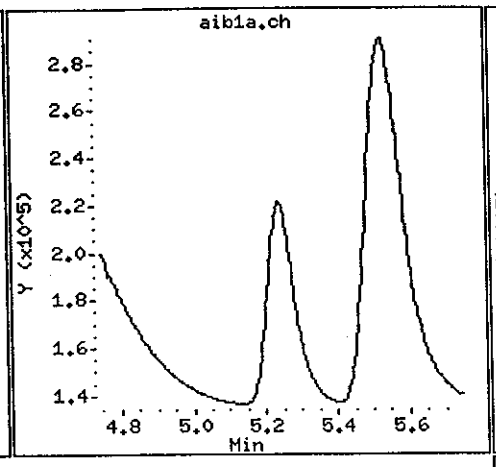
Data File: \\Kholley\EE\chem\vgc2.i\V2051702.b\LCS21.D



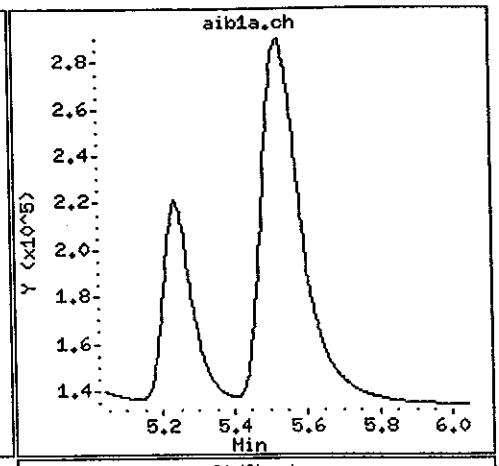
1 dichlorodifluoromethane

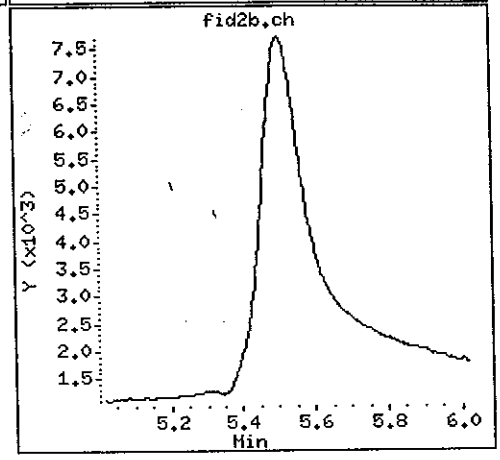


2 chloromethane

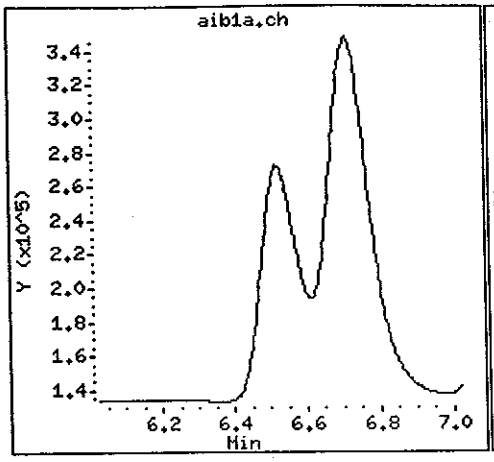


3 vinyl chloride

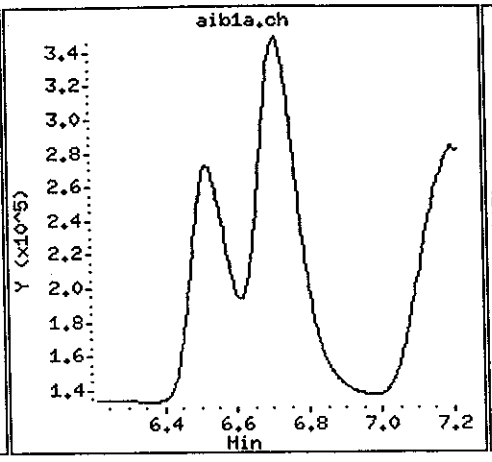




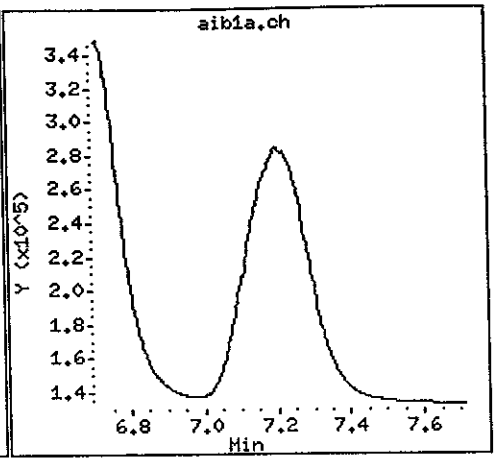
4 bromomethane



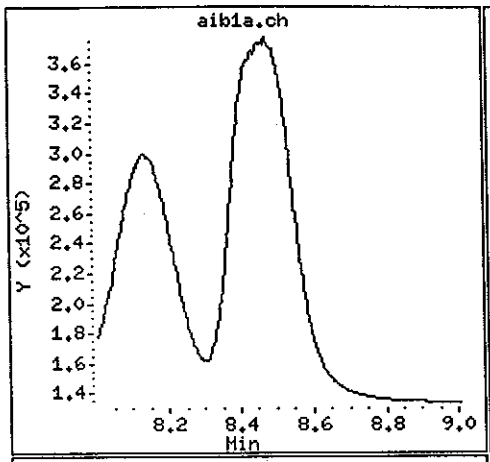
5 chloroethane



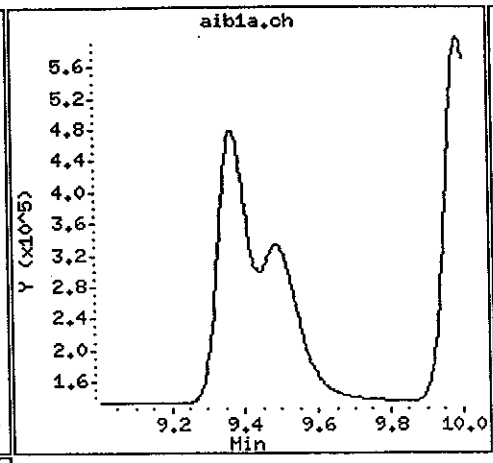
6 trichlorofluoromethane



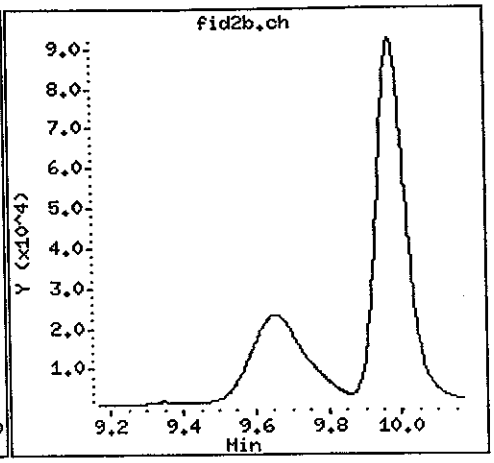
8 1,1-dichloroethene

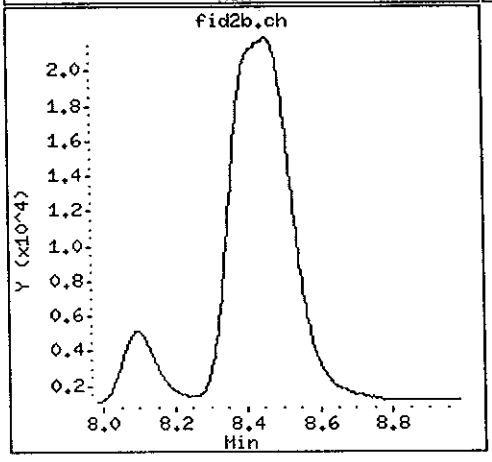


9 methylene chloride

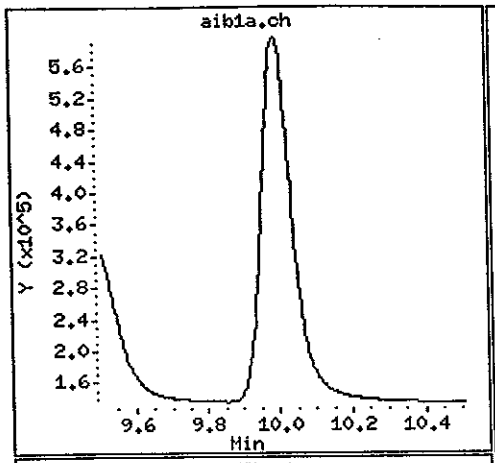


10 MTBE





11 trans 1,2-dichloroethene



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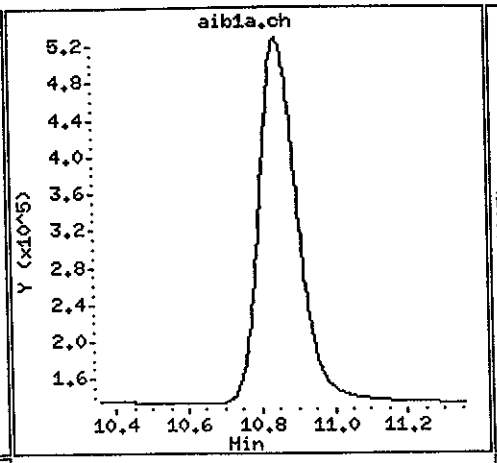
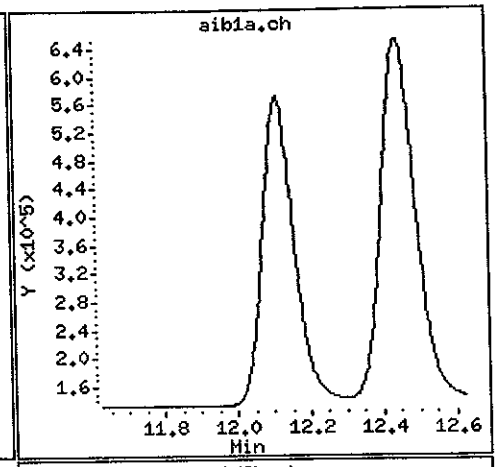
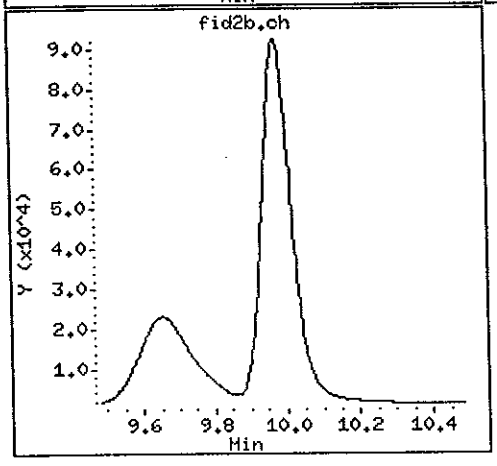
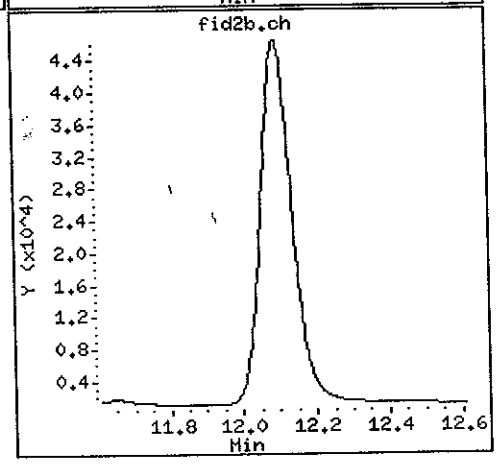


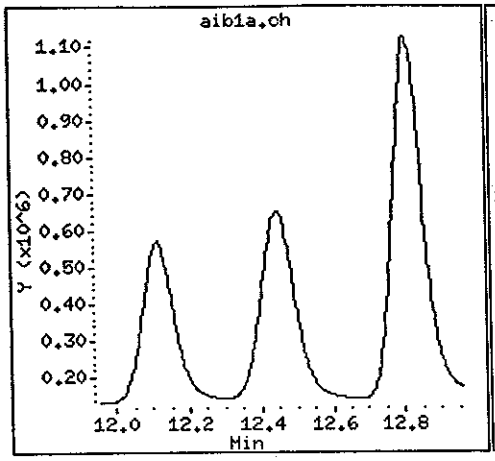
14 cis-1,2-dichloroethene



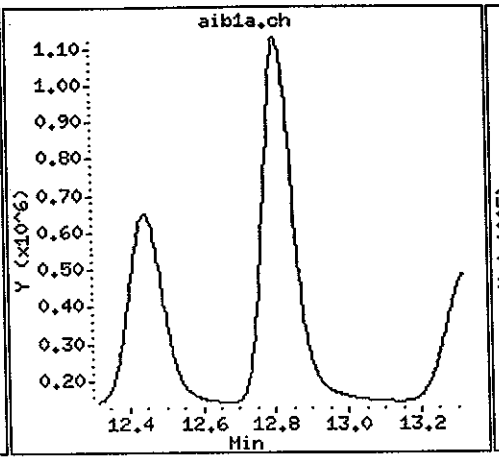




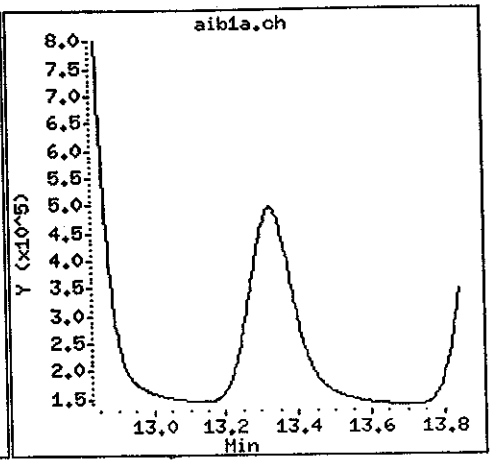
15 chloroform



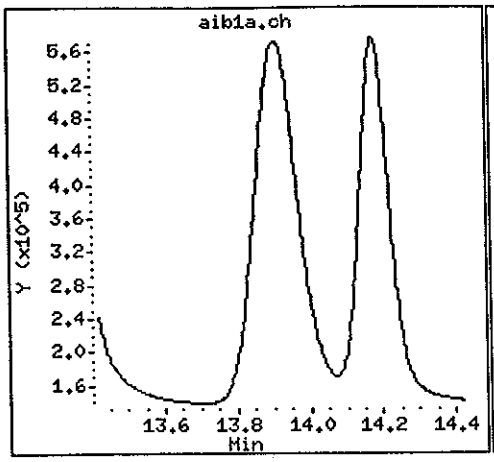
* 16 Bromochloromethane



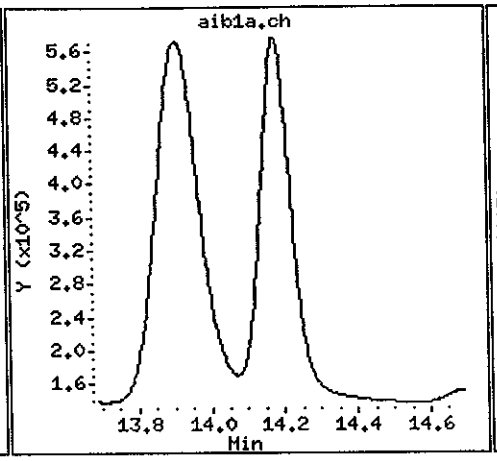
17 1,1,1-trichloroethane



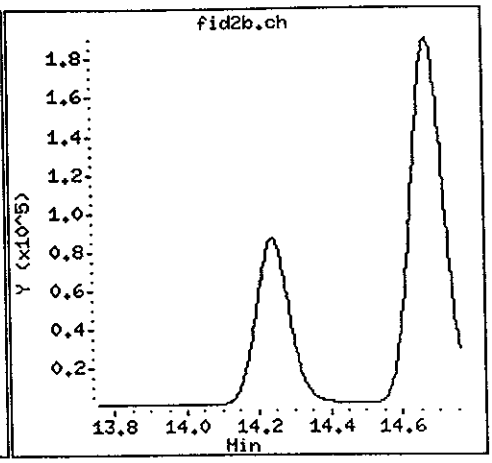
18 carbon tetrachloride



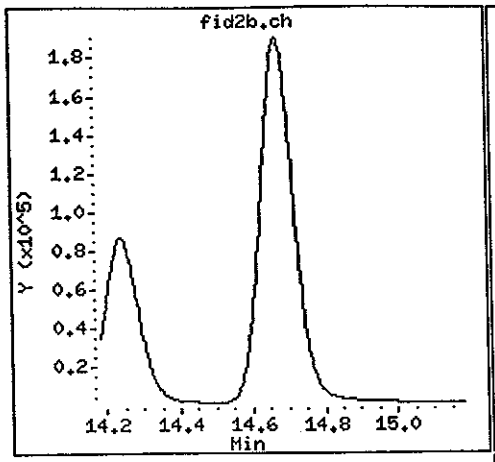
19 1,2-dichloroethane



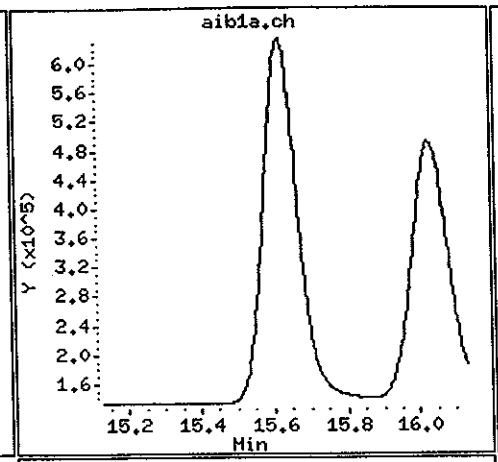
20 Benzene



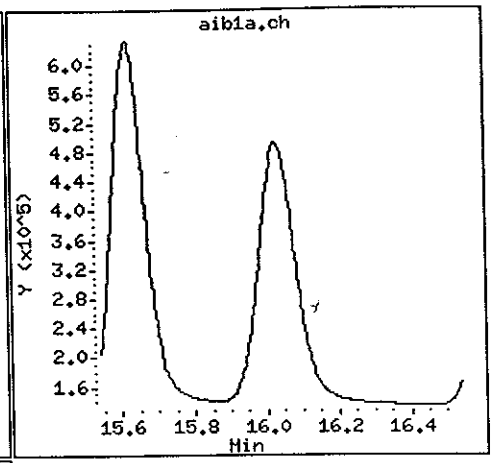
✖ 21 Fluorobenzene

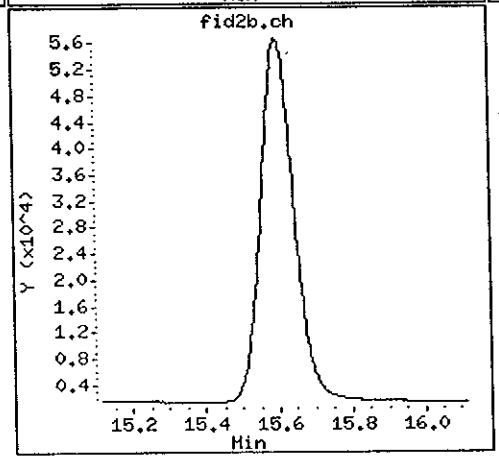


22 trichloroethene

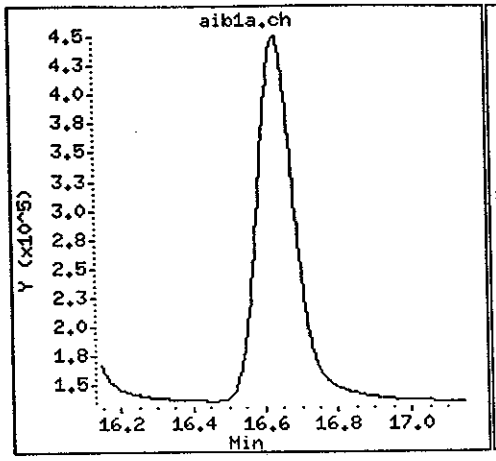


23 1,2-dichloropropane

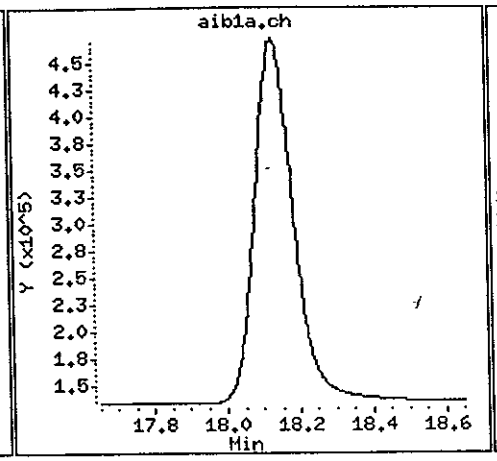




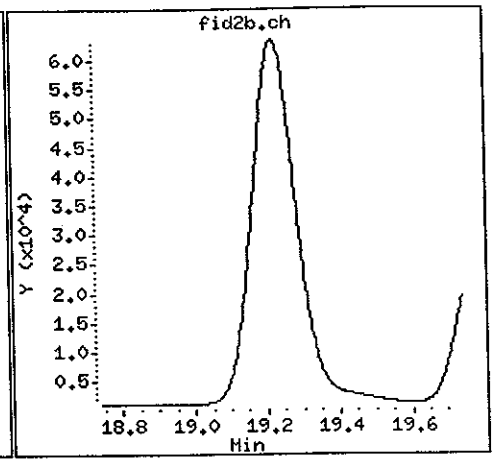
24 bromodichloromethane



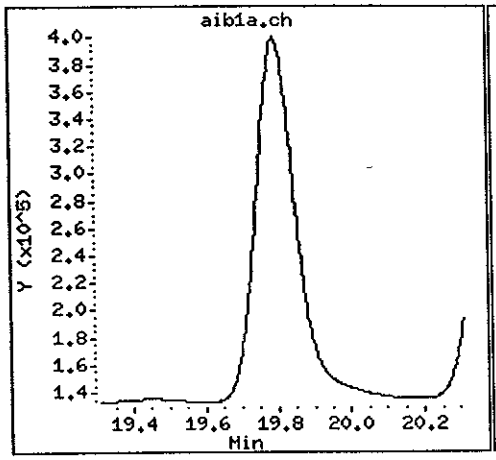
25 cis-1,3-dichloropropene



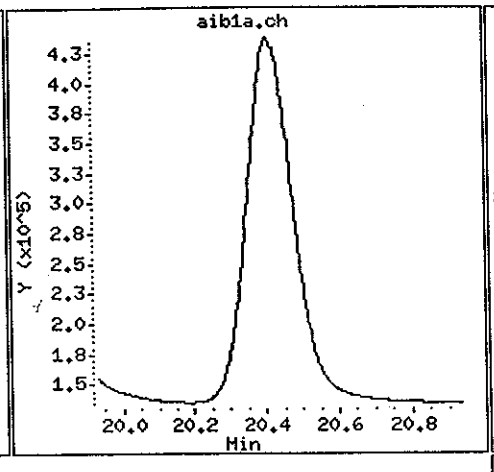
26 Toluene



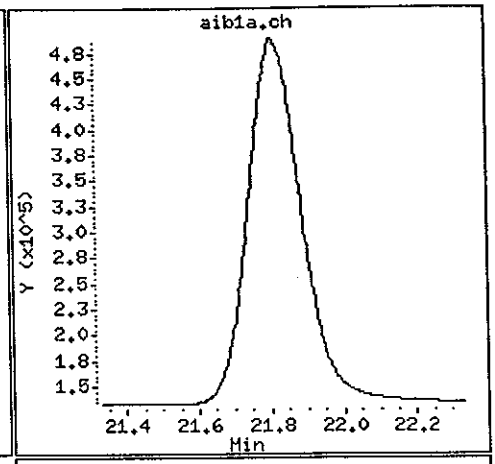
27 trans-1,3-dichloropropen

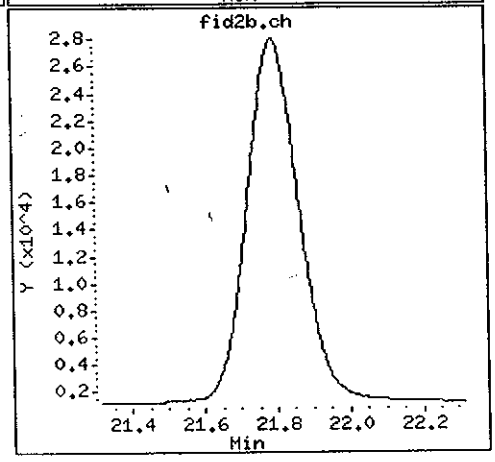


28 1,1,2-trichlorethane

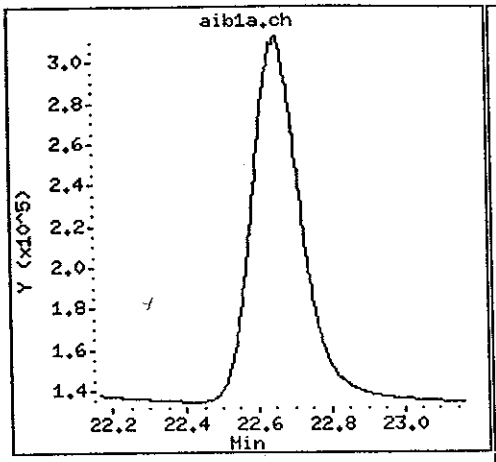


29 tetrachloroethene

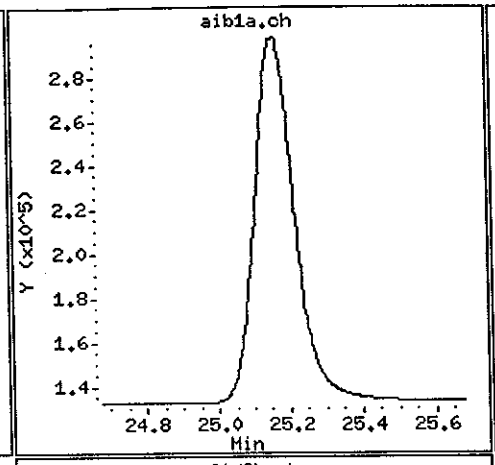




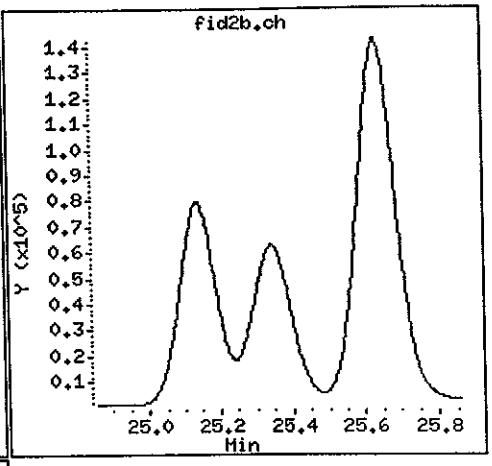
30 dibromochloromethane

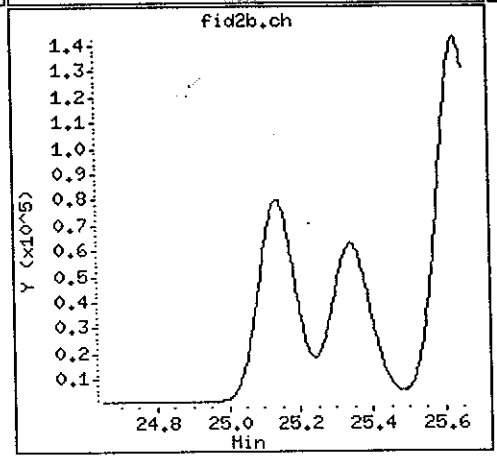


31 chlorobenzene

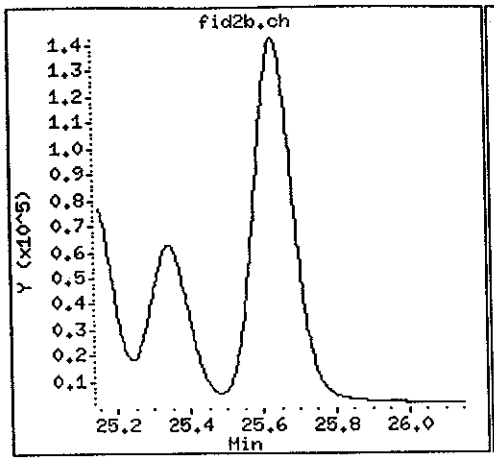


32 Ethylbenzene

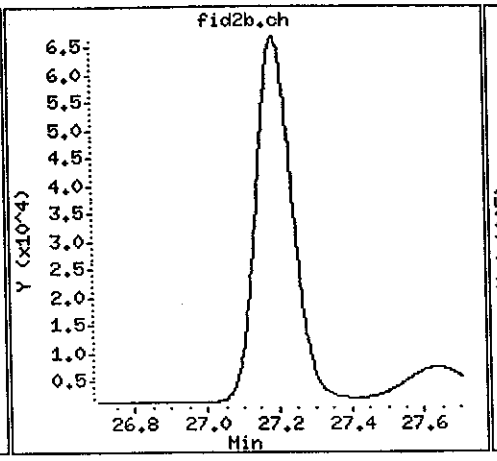




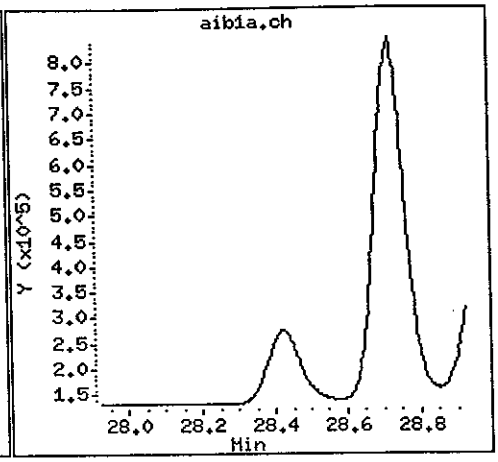
33 m,p-xylene



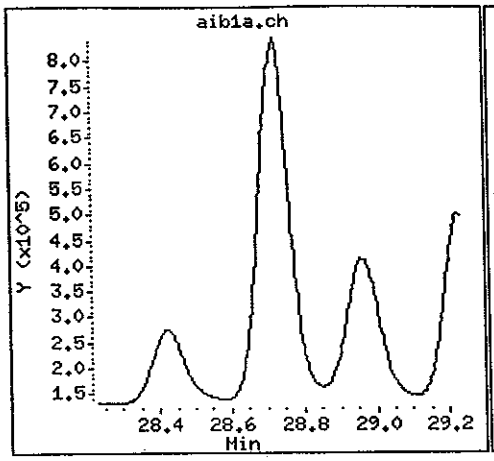
35 o-xylene



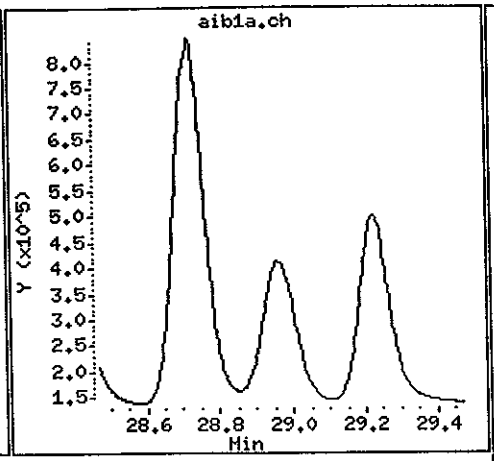
36 bromoform



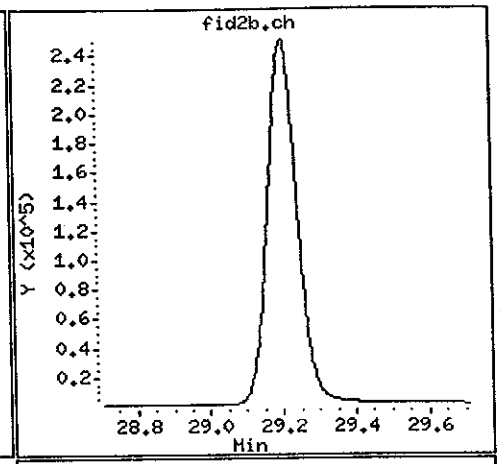
$ 37 1,4-dichlorobutane

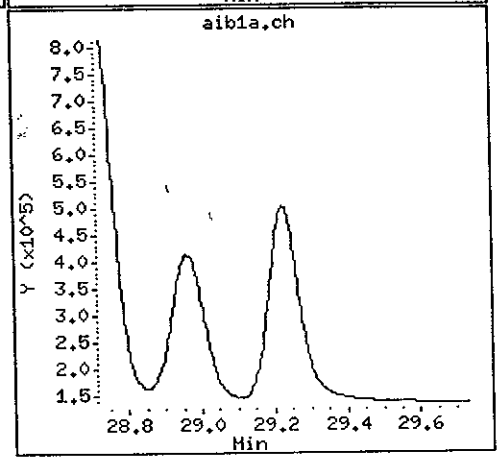


38 1,1,2,2-tetrachloroethan

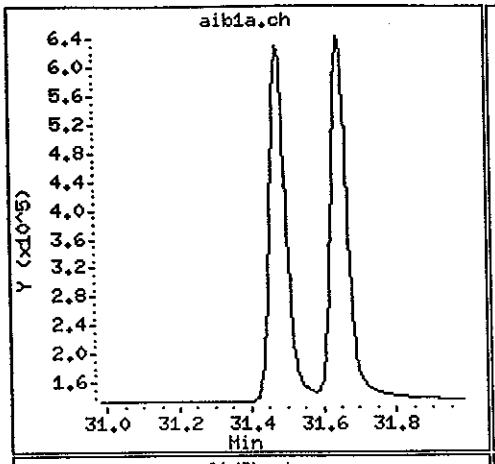


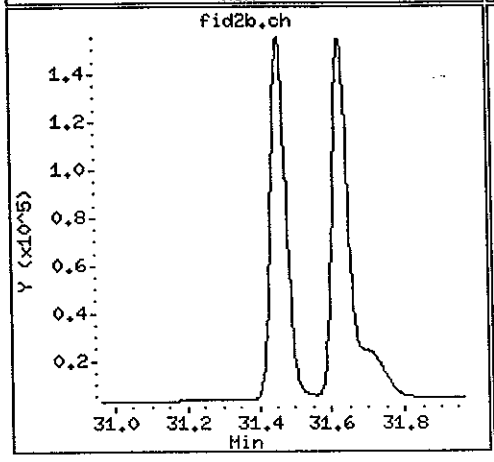
$ 39 4-bromofluorobenzene



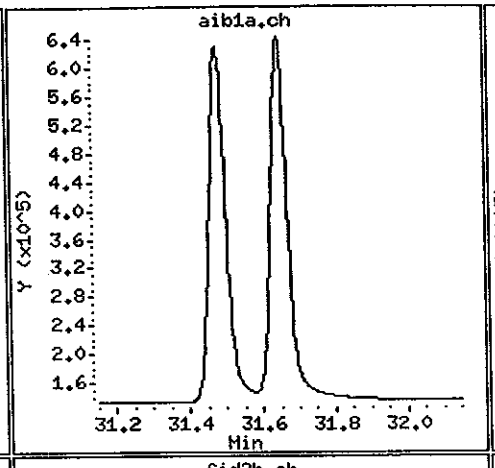


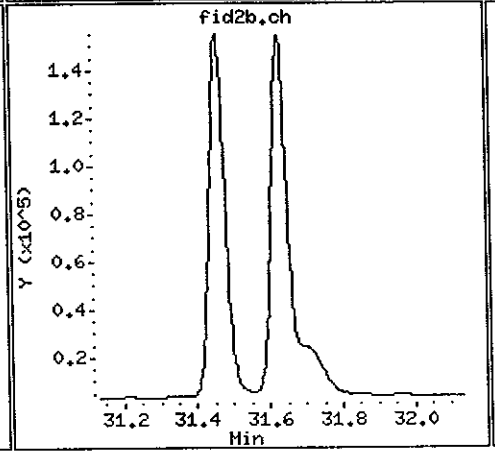
40 1,3-dichlorobenzene



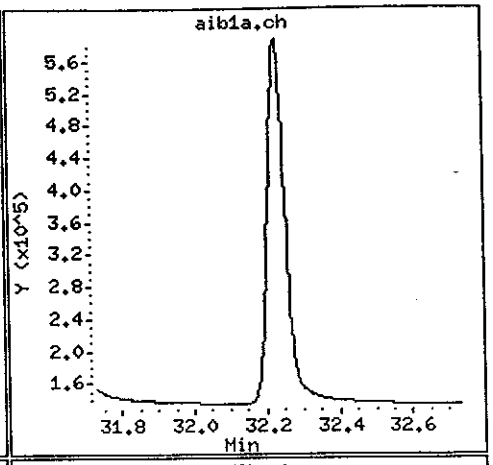


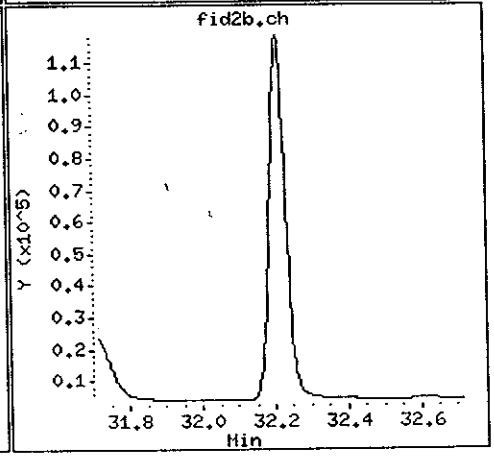
41 1,4-dichlorobenzene





42 1,2-dichlorobenzene





PEL Laboratories, Inc.

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Inj Date : 17-MAY-2002 08:36
Operator : Inst ID: vgc2.i
Smp Info : 0517BLK21
Misc Info :
Comment :
Method : \\Kholley\EE\chem\vgc2.i\V2051702.b\8021.m
Meth Date : 23-May-2002 09:14 lpelo Quant Type: ISTD
Cal Date : 16-MAY-2002 17:50 Cal File: 100PPB.D
Als bottle: 3 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8021rl.sub
Target Version: 4.04
Processing Host: FILES

Concentration Formula: Amt * DF * Vf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	

Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 16 Bromochloromethane	AIB1A	12.820	12.816	(1.000)	6252553	30.0000	
* 21 Fluorobenzene	FID2B	14.683	14.683	(1.000)	1191986	30.0000	
$ 37 1,4-dichlorobutane	AIB1A	28.723	28.730	(2.240)	4442648	28.3834	28.4
$ 39 4-bromofluorobenzene	FID2B	29.206	29.206	(1.989)	1360173	28.1175	28.1

PEL Laboratories, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vgc2.i
Lab File ID: BLK21.D
Lab Smp Id: 0517BLK21
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\Kholley\EE\chem\vgc2.i\V2051702.b\8021.m
Misc Info:

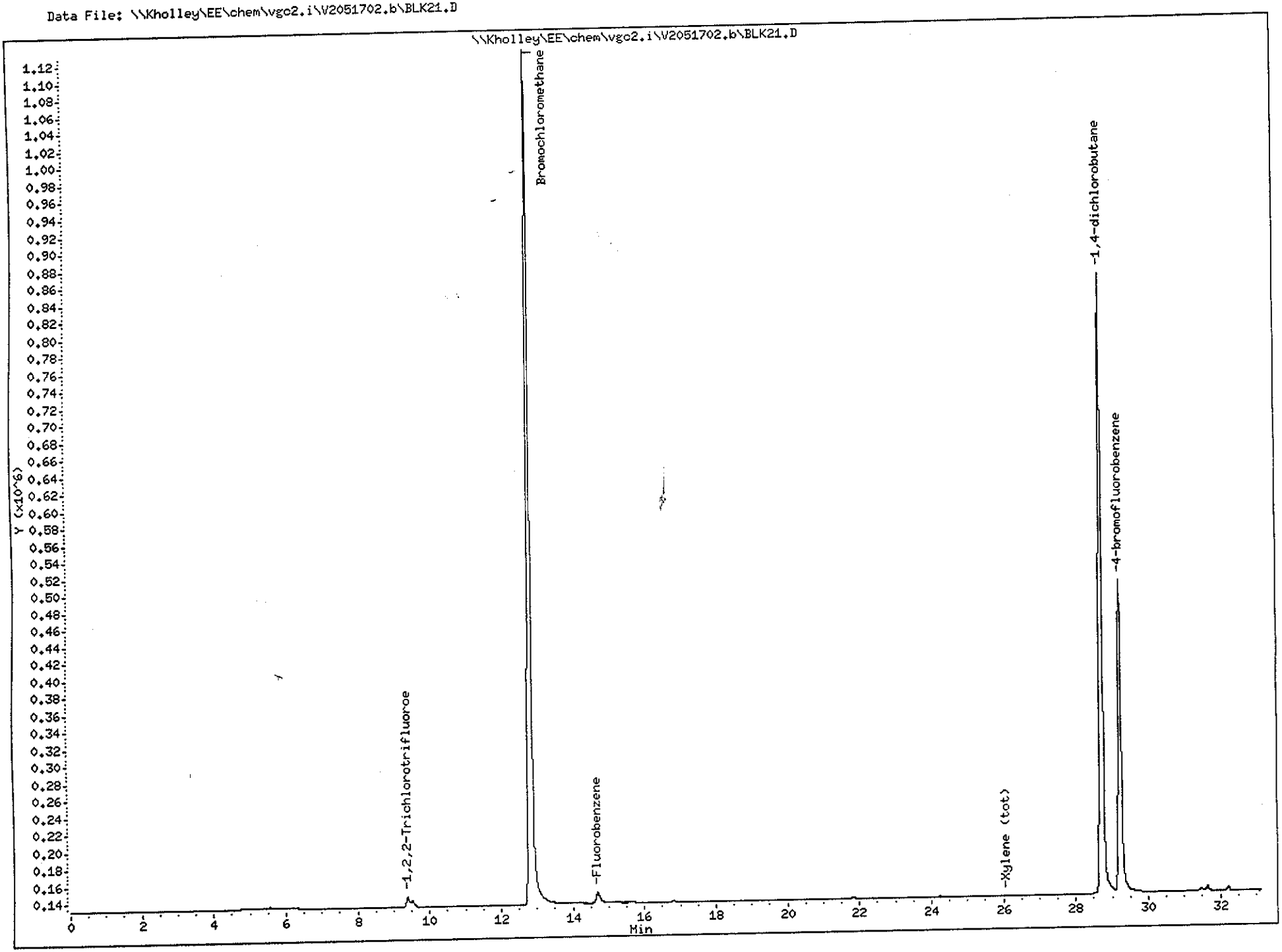
Calibration Date: 17-MAY-2002
Calibration Time: 21:18
Client Smp ID: 0517BLK21
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	6476764	3238382	12953528	6252553	-3.46
21 Fluorobenzene	1140461	570231	2280922	1191986	4.52

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	12.82	12.32	13.32	12.82	0.03
21 Fluorobenzene	14.68	14.18	15.18	14.68	0.00

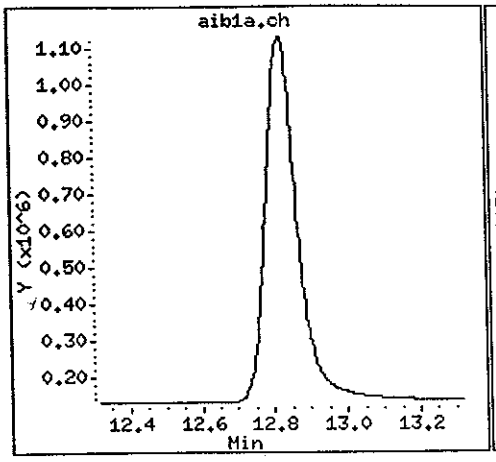
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\Kholley\EE\chem\vgc2.i\V2051702.b\BLK21.D

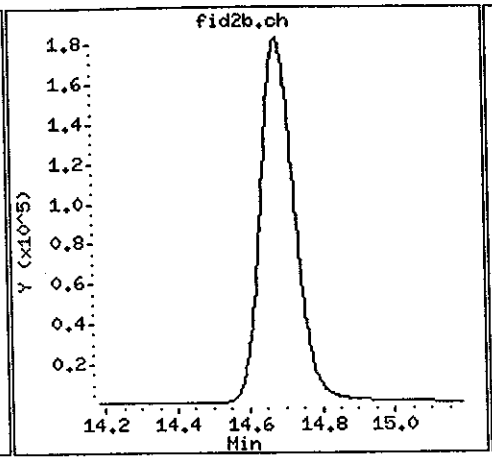


Data File: \\Kholley\EE\chem\vgc2.i\V2051702.b\BLK21.D

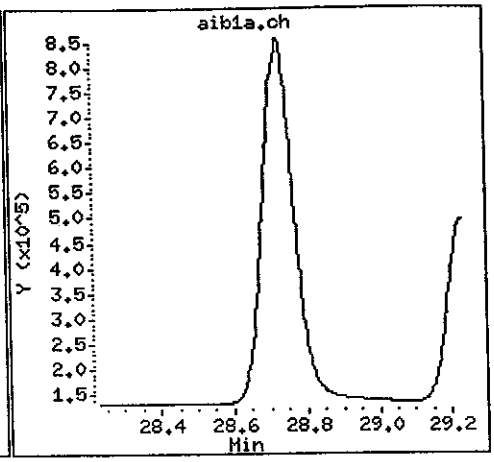
* 16 Bromochloromethane



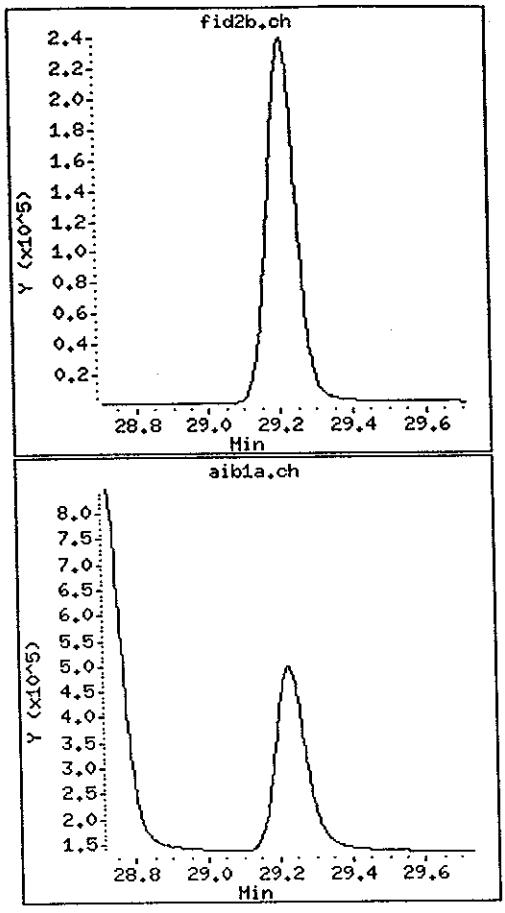
* 21 Fluorobenzene



$ 37 1,4-dichlorobutane



$ 39 4-bromofluorobenzene



PEL Laboratories, Inc.

Data file : \\Kholley\EE\chem\vgc2.i\V2051702.b\29-1.D
Lab Smp Id: 220402901 Client Smp ID: 062CEF432N
Inj Date : 17-MAY-2002 10:38
Operator : Inst ID: vgc2.i
Smp Info : 220402901
Misc Info :
Comment :
Method : \\Kholley\EE\chem\vgc2.i\V2051702.b\8021.m
Meth Date : 23-May-2002 09:14 lpelo Quant Type: ISTD
Cal Date : 16-MAY-2002 17:50 Cal File: 100PPB.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8021rl.sub
Target Version: 4.04
Processing Host: FILES

Concentration Formula: Amt * DF * Vf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
*	16 Bromochloromethane	AIB1A	12.833	12.816	(1.000)	5766987	30.0000	
	20 Benzene	FID2B	14.270	14.256	(0.971)	17974	0.32303	0.32(a)
*	21 Fluorobenzene	FID2B	14.696	14.683	(1.000)	1169393	30.0000	
	26 Toluene	FID2B	19.260	19.240	(1.311)	1367066	26.3002	26.3
	32 Ethylbenzene	FID2B	25.376	25.356	(1.727)	966289	20.5095	20.5
	33 m,p-xylene	FID2B	25.663	25.650	(1.746)	1931354	37.0719	37.1
	35 o-xylene	FID2B	27.216	27.203	(1.852)	1130569	25.9262	25.9
M	34 Xylene (tot)	FID2B				3061923	62.9981	63.0
$	37 1,4-dichlorobutane	AIB1A	28.746	28.730	(2.240)	4469767	30.9610	31.0
$	39 4-bromofluorobenzene	FID2B	29.226	29.206	(1.989)	1436169	30.2620	30.3

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

PEL Laboratories, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vgc2.i
Lab File ID: 29-1.D
Lab Smp Id: 220402901
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\Kholley\EE\chem\vgc2.i\V2051702.b\8021.m
Misc Info:

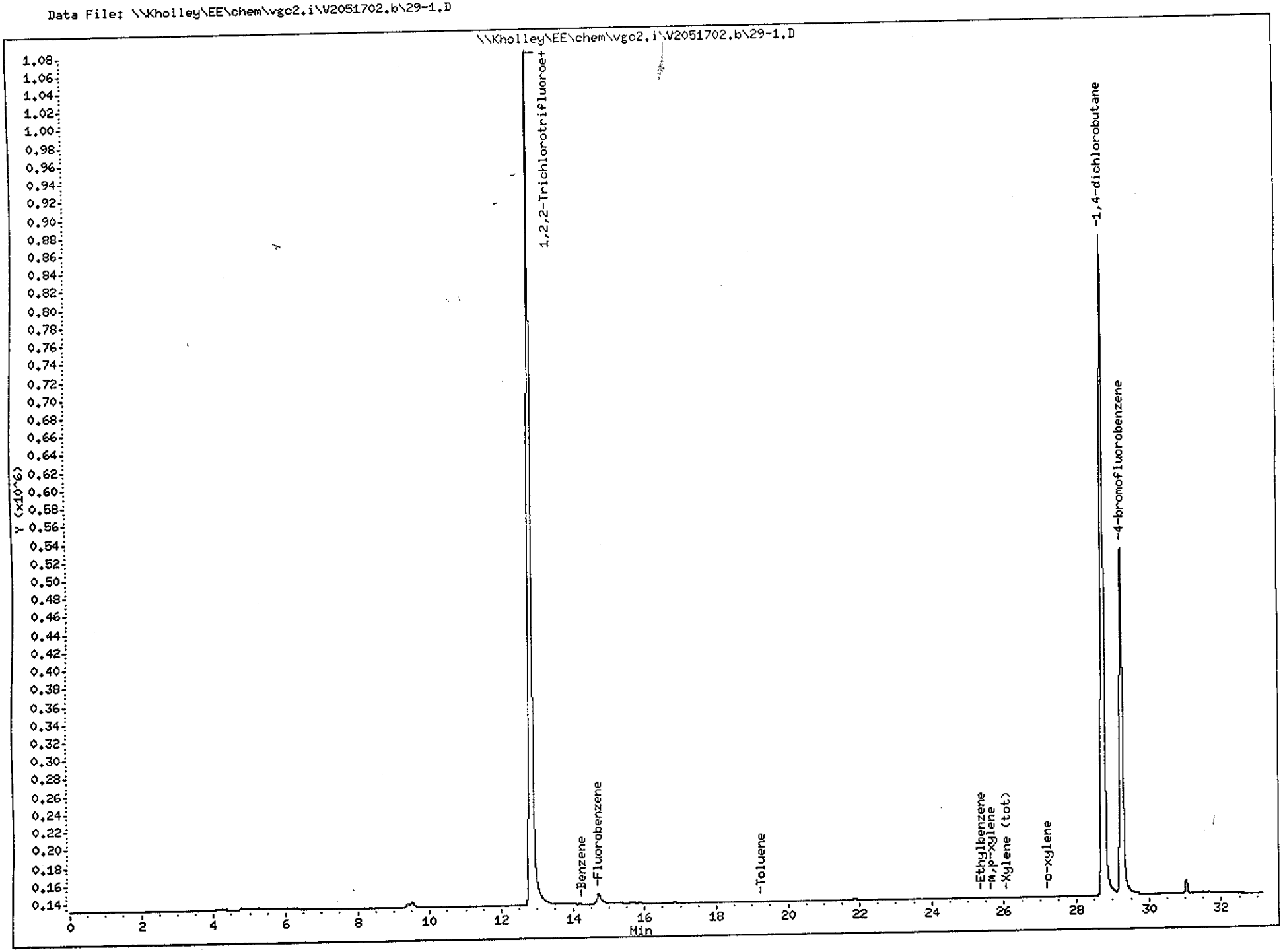
Calibration Date: 17-MAY-2002
Calibration Time: 21:18
Client Smp ID: 062CEF432N
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	6476764	3238382	12953528	5766987	-10.96
21 Fluorobenzene	1140461	570231	2280922	1169393	2.54

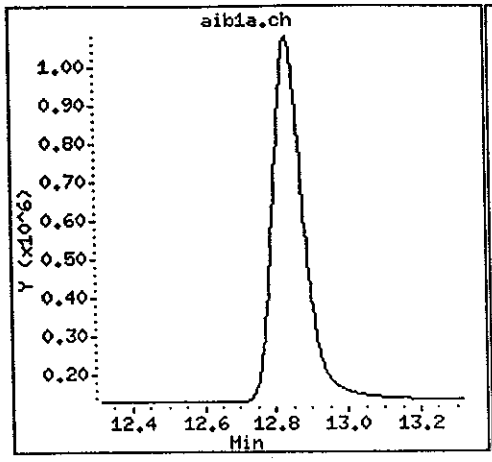
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	12.82	12.32	13.32	12.83	0.13
21 Fluorobenzene	14.68	14.18	15.18	14.70	0.09

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

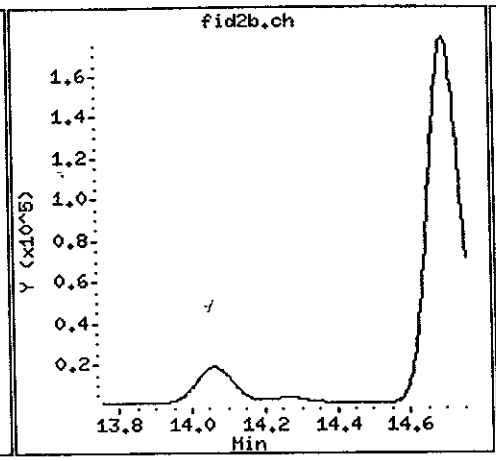
Data File: \\Kholley\EE\chem\vgc2.i\V2051702.b\29-1.D



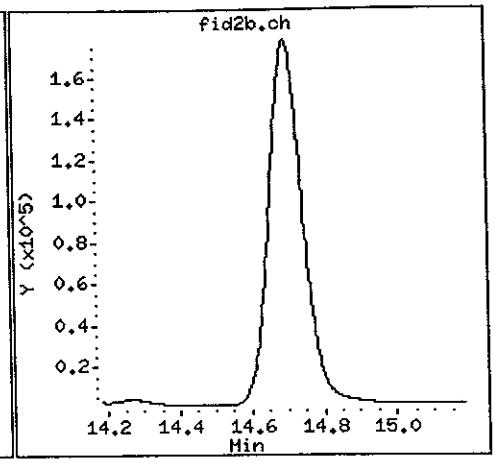
× 16 Bromochloromethane



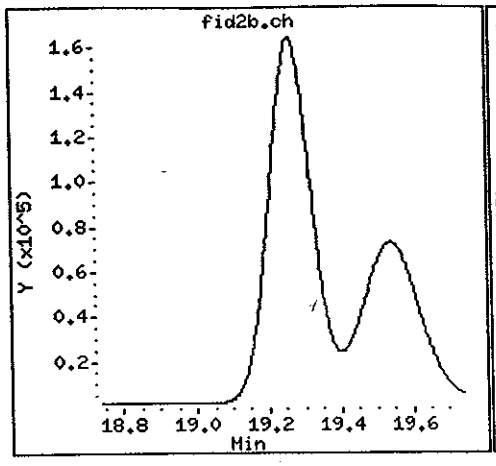
20 Benzene



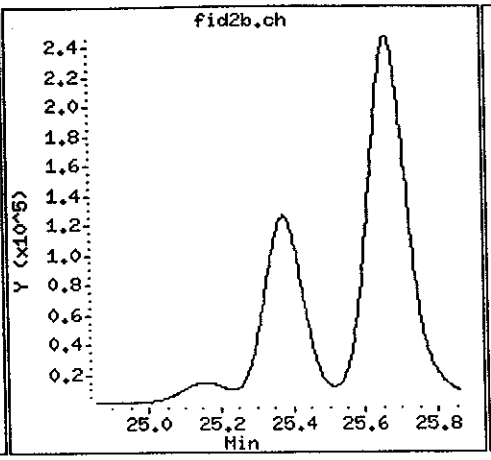
× 21 Fluorobenzene



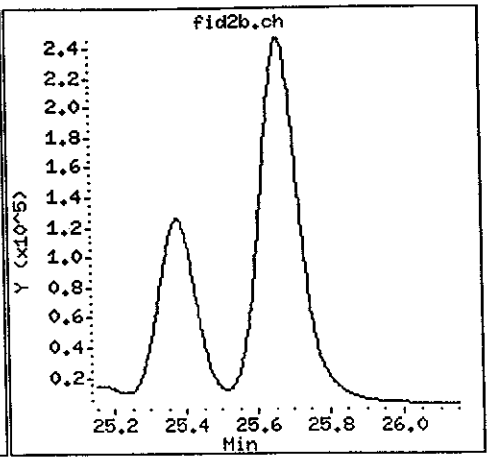
26 Toluene



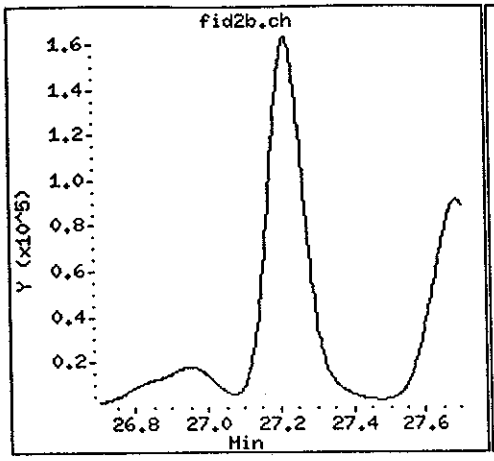
32 Ethylbenzene



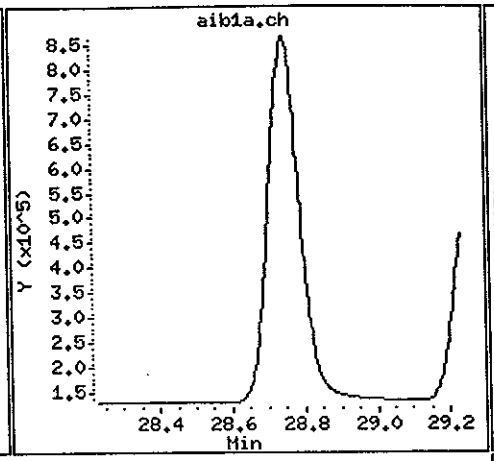
33 m,p-xylene



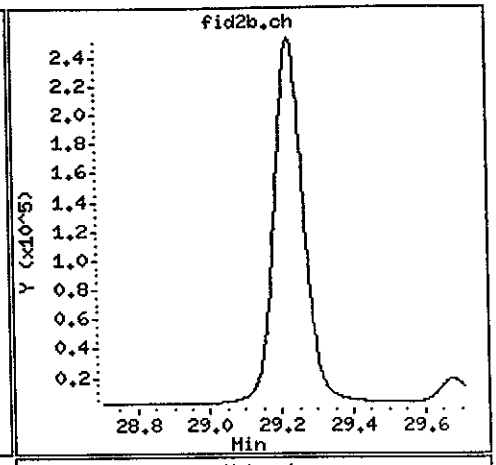
35 o-xylene

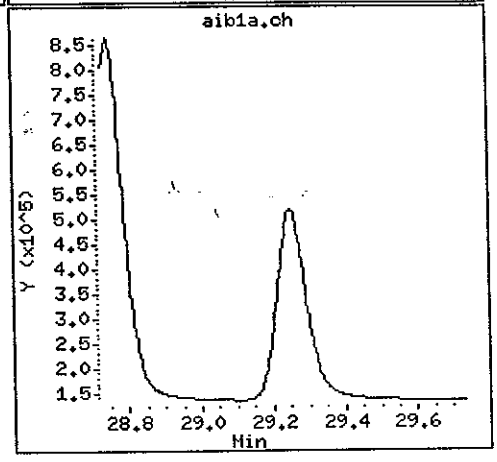


$ 37 1,4-dichlorobutane



$ 39 4-bromofluorobenzene





PEL Laboratories, Inc.

Data file : \\Kholley\EE\chem\vgc2.i\V2051702.b\29-2S.D
Lab Smp Id: 220402901MS Client Smp ID: 062CEF432NMS
Inj Date : 17-MAY-2002 11:29
Operator : Inst ID: vgc2.i
Smp Info : 220402902
Misc Info :
Comment :
Method : \\Kholley\EE\chem\vgc2.i\V2051702.b\8021.m
Meth Date : 23-May-2002 09:14 lpelo Quant Type: ISTD
Cal Date : 16-MAY-2002 17:50 Cal File: 100PPB.D
Als bottle: 8 QC Sample: MS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8021rl.sub
Target Version: 4.04
Processing Host: FILES

Concentration Formula: Amt * DF * Vf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
1	dichlorodifluoromethane	AIB1A	4.726	4.716	(0.368)	859723	7.63076	7.6
2	chloromethane	AIB1A	5.256	5.243	(0.410)	524124	8.66911	8.7
3	vinyl chloride	AIB1A	5.546	5.540	(0.432)	1094065	9.06765	9.1(Q)
4	bromomethane	AIB1A	6.536	6.523	(0.509)	931193	11.0739	11.1
5	chloroethane	AIB1A	6.733	6.716	(0.525)	1861886	10.1265	10.1
6	trichlorofluoromethane	AIB1A	7.220	7.210	(0.562)	1599287	11.1108	11.1
8	1,1-dichloroethene	AIB1A	8.513	8.503	(0.663)	3089545	11.1431	11.1(Q)
9	methylene chloride	AIB1A	9.396	9.506	(0.732)	3626828	11.3924	11.4
10	MTBE	FID2B	9.676	9.666	(0.658)	262208	12.9420	12.9
11	trans 1,2-dichloroethene	AIB1A	10.016	10.006	(0.780)	3041345	10.8668	10.9
13	1,1-dichloroethane	AIB1A	10.873	10.856	(0.847)	3160067	11.3973	11.4
14	cis-1,2-dichloroethene	AIB1A	12.136	12.123	(0.945)	2856060	10.6239	10.6
M 12	1,2-Dichloroethene (tot)	AIB1A				5897405	21.4907	21.5
15	chloroform	AIB1A	12.473	12.456	(0.972)	3825172	10.8959	10.9
* 16	Bromochloromethane	AIB1A	12.836	12.816	(1.000)	6478954	30.0000	
17	1,1,1-trichloroethane	AIB1A	13.353	13.343	(1.040)	3370928	11.1029	11.1
18	carbon tetrachloride	AIB1A	13.940	13.920	(1.086)	3930315	11.2314	11.2

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	19 1,2-dichloroethane	AIB1A	14.200	14.190	(1.106)	2973705	11.0677	11.1
	20 Benzene	FID2B	14.270	14.256	(0.971)	613955	10.3998	10.4
*	21 Fluorobenzene	FID2B	14.696	14.683	(1.000)	1240698	30.0000	
	22 trichloroethene	AIB1A	15.650	15.630	(1.219)	3586044	11.1326	11.1
	23 1,2-dichloropropane	AIB1A	16.056	16.040	(1.251)	2759974	11.2469	11.2
	24 bromodichloromethane	AIB1A	16.663	16.646	(1.298)	2452826	10.5908	10.6
	25 cis-1,3-dichloropropene	AIB1A	18.160	18.150	(1.415)	2649464	11.2494	11.2
	26 Toluene	FID2B	19.256	19.240	(1.310)	1826504	33.1196	33.1(R)
	27 trans-1,3-dichloropropene	AIB1A	19.833	19.810	(1.545)	2230691	10.8872	10.9
	28 1,1,2-trichlorethane	AIB1A	20.446	20.433	(1.593)	2923862	11.5550	11.6
	29 tetrachloroethene	AIB1A	21.853	21.830	(1.702)	3815257	10.9848	11.0
	30 dibromochloromethane	AIB1A	22.690	22.666	(1.768)	1743470	10.6001	10.6
	31 chlorobenzene	AIB1A	25.186	25.176	(1.962)	1382072	11.2601	11.3
	32 Ethylbenzene	FID2B	25.370	25.356	(1.726)	1405336	28.1140	28.1(R)
	33 m,p-xylene	FID2B	25.656	25.650	(1.746)	2953269	53.4294	53.4(R)
	35 o-xylene	FID2B	27.213	27.203	(1.852)	1559704	33.7115	33.7(R)
	36 bromoform	AIB1A	28.443	28.423	(2.216)	1050328	10.5540	10.6
M	34 Xylene (tot)	FID2B				4512973	87.1409	87.1(R)
$	37 1,4-dichlorobutane	AIB1A	28.733	28.730	(2.238)	4522440	27.8835	27.9
	38 1,1,2,2-tetrachloroethane	AIB1A	28.973	28.970	(2.257)	2040035	11.7432	11.7
$	39 4-bromofluorobenzene	FID2B	29.220	29.206	(1.988)	1489476	29.5815	29.6
	40 1,3-dichlorobenzene	AIB1A	31.486	31.483	(2.453)	1772087	11.6954	11.7(H)
	41 1,4-dichlorobenzene	AIB1A	31.656	31.650	(2.466)	1902165	11.6696	11.7(Q)
	42 1,2-dichlorobenzene	AIB1A	32.236	32.230	(2.511)	1790870	12.2847	12.3

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
H - Operator selected an alternate compound hit.

PEL Laboratories, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

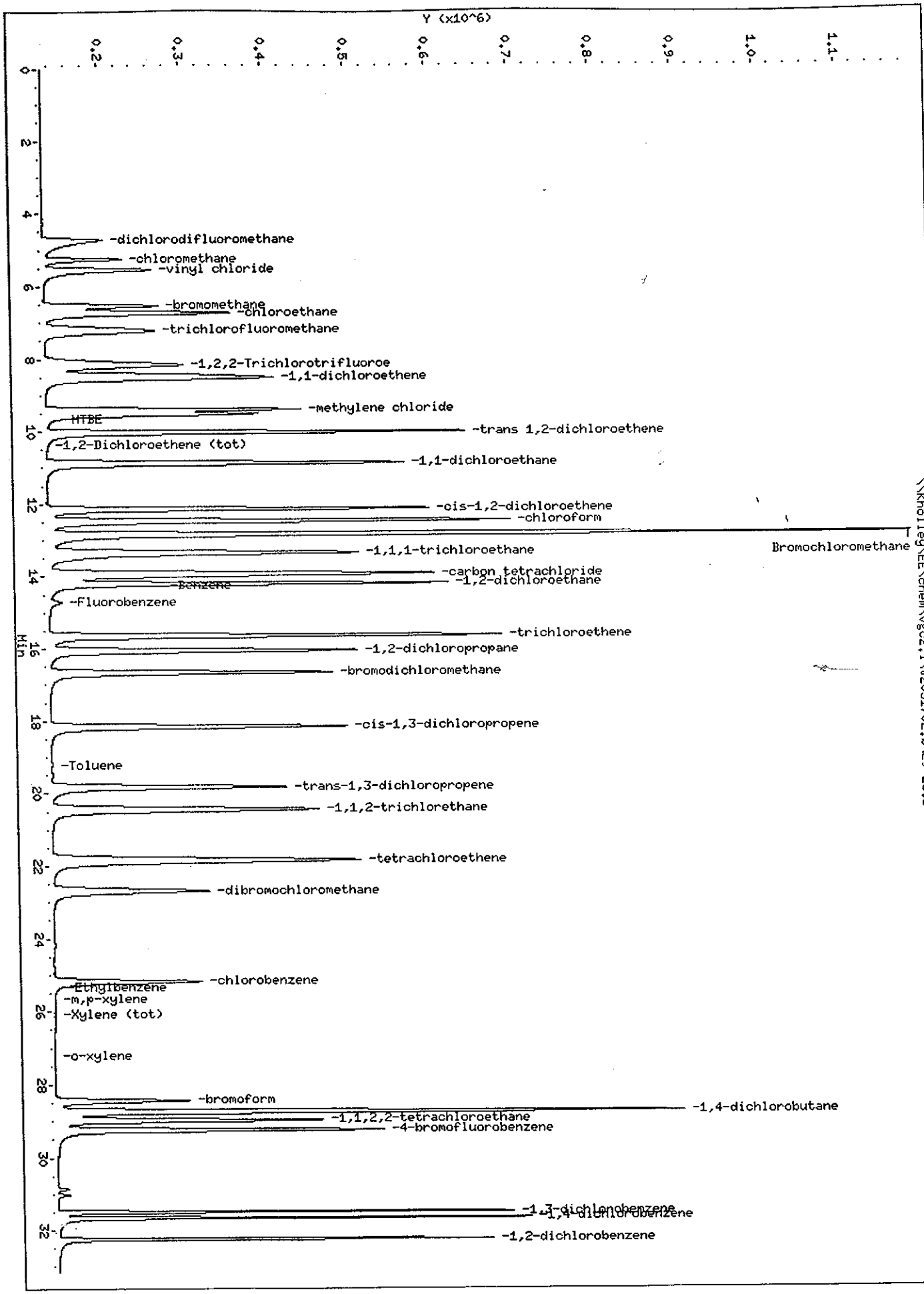
Instrument ID: vgc2.i
Lab File ID: 29-2S.D
Lab Smp Id: 220402901MS
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\Kholley\EE\chem\vgc2.i\V2051702.b\8021.m
Misc Info:

Calibration Date: 17-MAY-2002
Calibration Time: 21:18
Client Smp ID: 062CEF432NMS
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	6476764	3238382	12953528	6478954	0.03
21 Fluorobenzene	1140461	570231	2280922	1240698	8.79

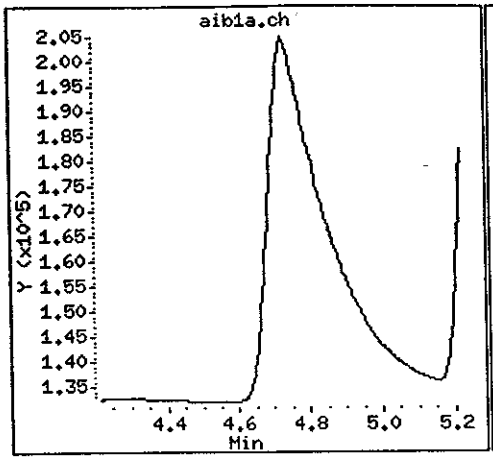
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	12.82	12.32	13.32	12.84	0.16
21 Fluorobenzene	14.68	14.18	15.18	14.70	0.09

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.

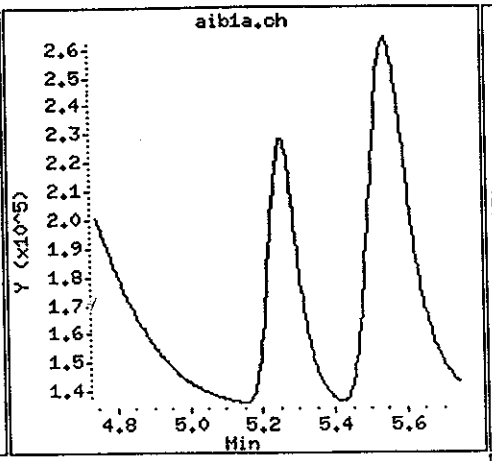

Y (x10^6)
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
32
Min
-dichlorodifluoromethane
-chloromethane
-vinyl chloride
-bromomethane
-chloroethane
-trichlorofluoromethane
-1,2,2-Trichlorotrifluoroe
-1,1-dichloroethene
-methylene chloride
MTBE
-trans 1,2-dichloroethene
-1,2-Dichloroethene (tot)
-1,1-dichloroethane
-cis-1,2-dichloroethene
-chloroform
Bromochloromethane
-1,1,1-trichloroethane
-carbon tetrachloride
-1,2-dichloroethane
-Benzene
-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
-1,4-dichlorobutane
-1,1,2,2-tetrachloroethane
-4-bromofluorobenzene
-1,3-dichlorobenzene
-1,4-dichlorobenzene
-1,2-dichlorobenzene
Data File: \\Kholley\EE\chem\vgc2.i\2051702.b\29-2S.D
\\Kholley\EE\chem\vgc2.i\2051702.b\29-2S.D

Data File: \\Kholley\EE\chem\vgo2.i\V2051702.b\29-2S.D

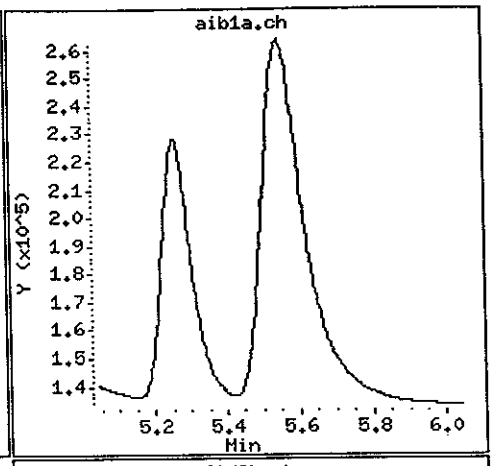
1 dichlorodifluoromethane

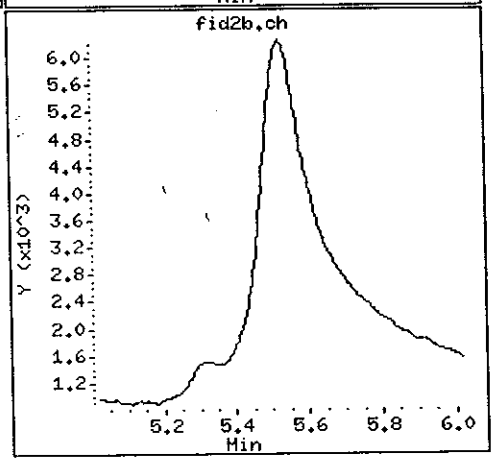


2 chloromethane

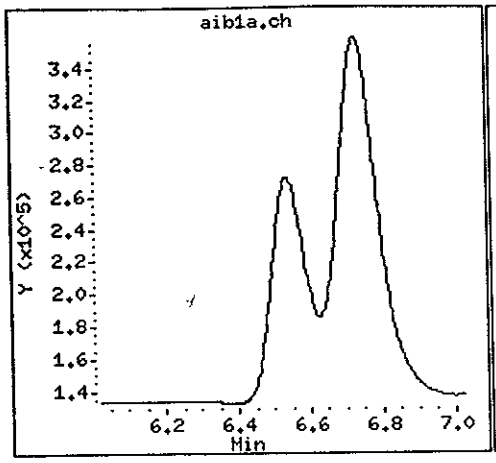


3 vinyl chloride

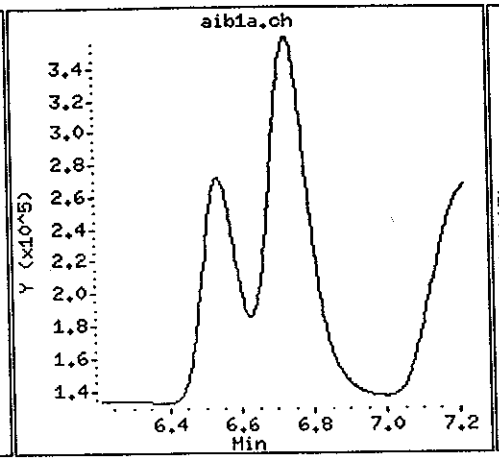




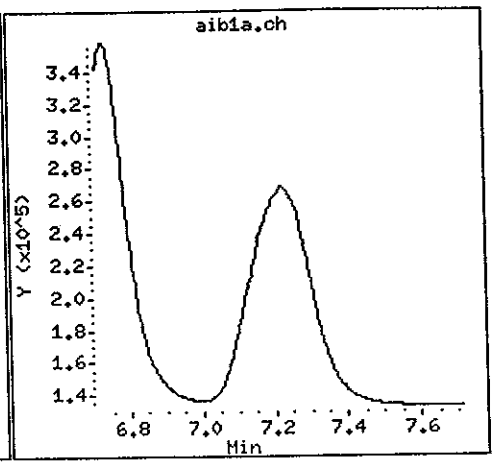
4 bromomethane



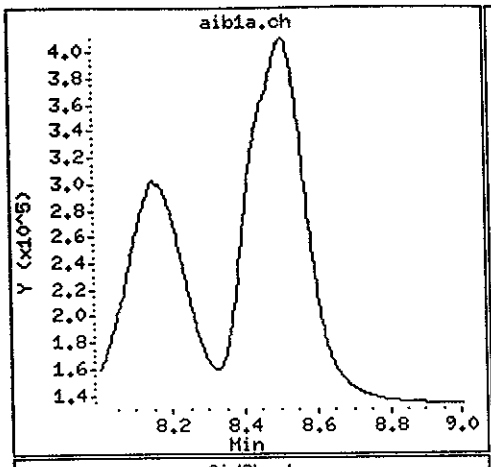
5 chloroethane



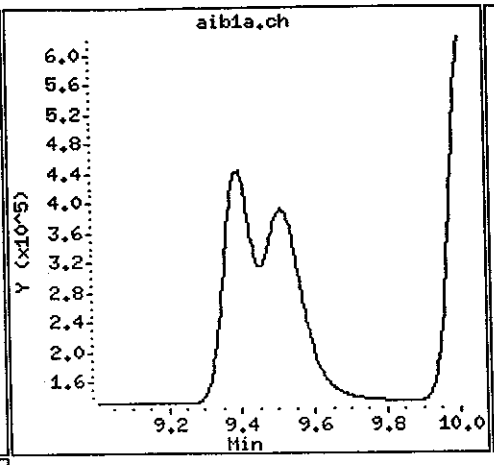
6 trichlorofluoromethane



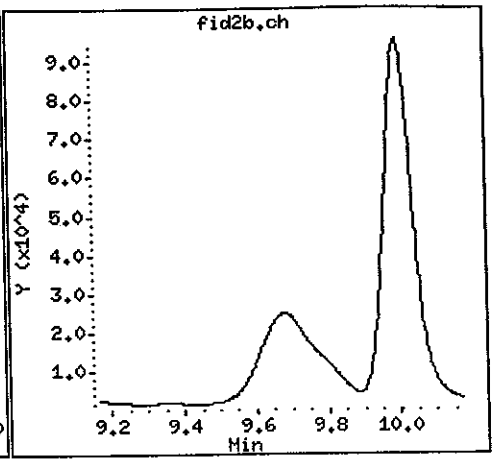
8 1,1-dichloroethene

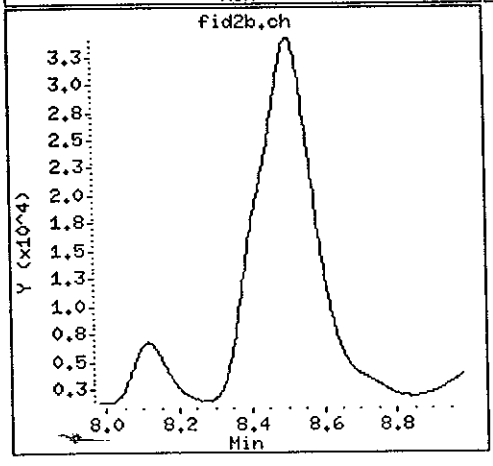


9 methylene chloride

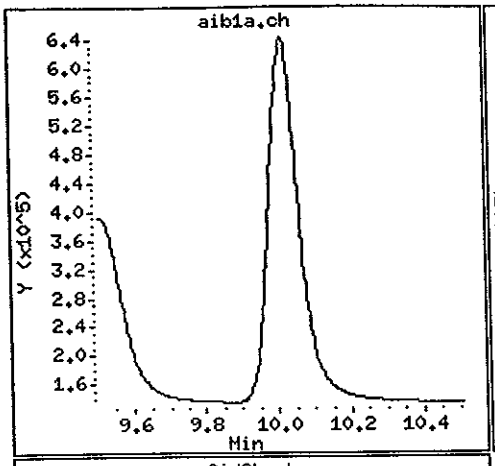


10 MTBE

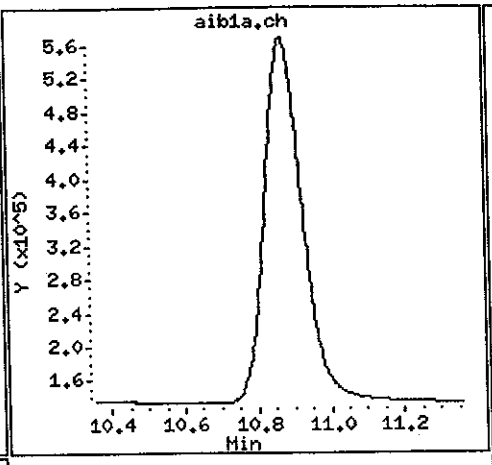




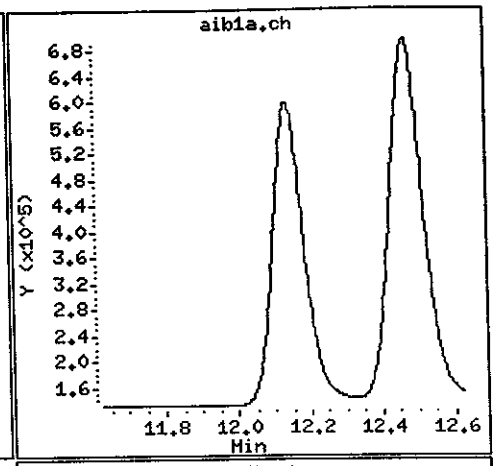
11 trans 1,2-dichloroethene

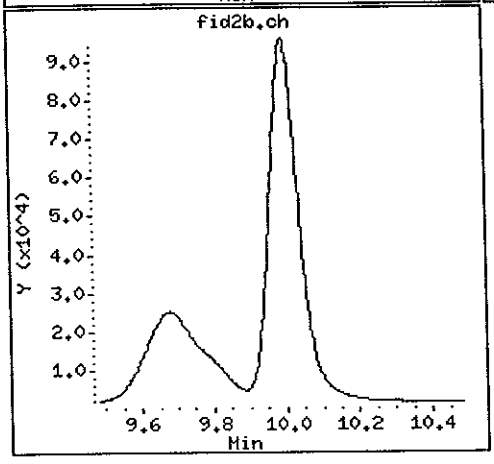


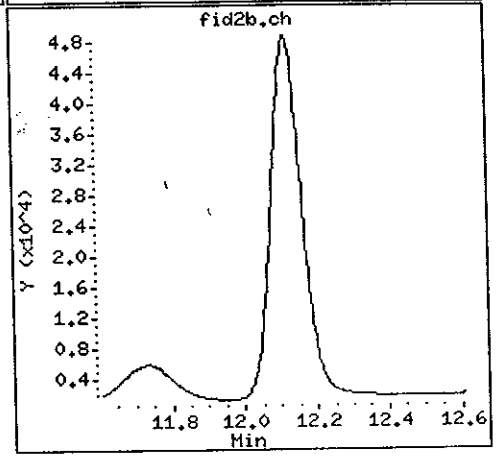
13 1,1-dichloroethane



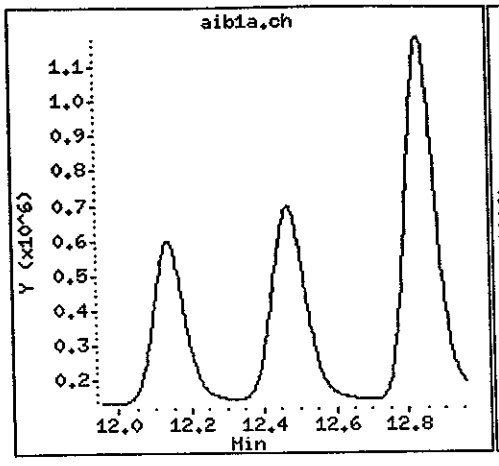
14 cis-1,2-dichloroethene



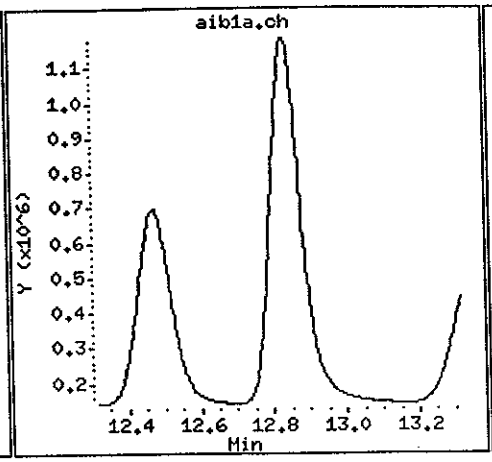




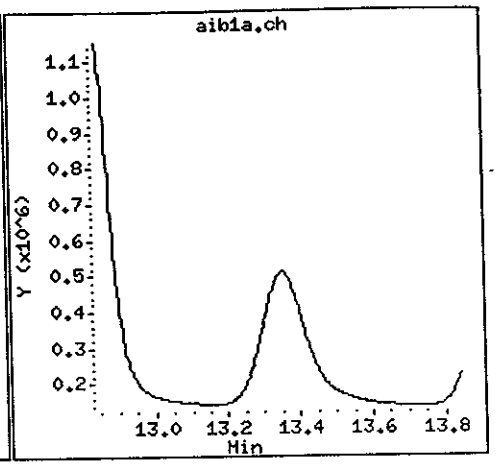
15 chloroform



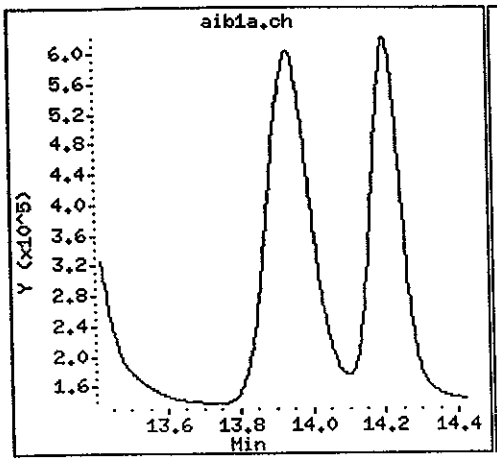
16 Bromochloromethane



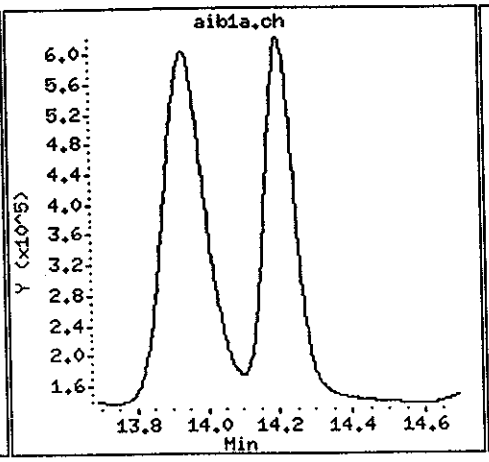
17 1,1,1-trichloroethane



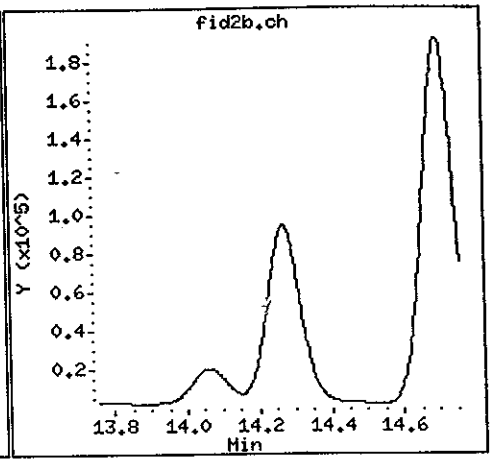
18 carbon tetrachloride



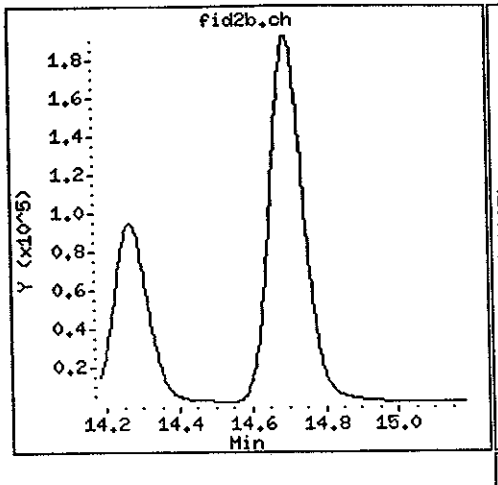
19 1,2-dichloroethane



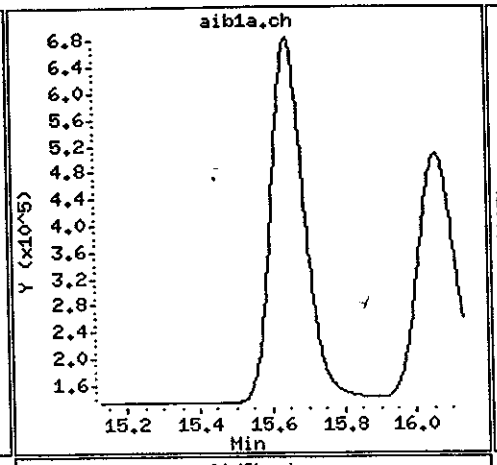
20 Benzene



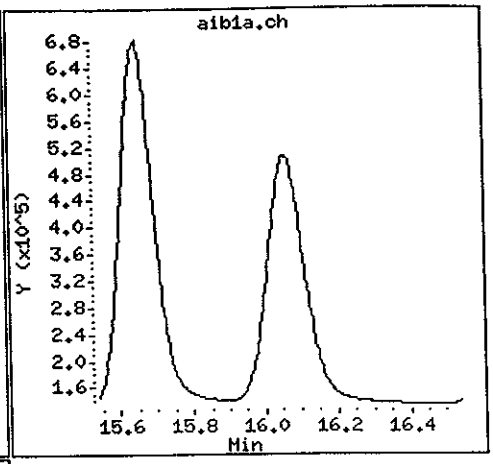
✖ 21 Fluorobenzene

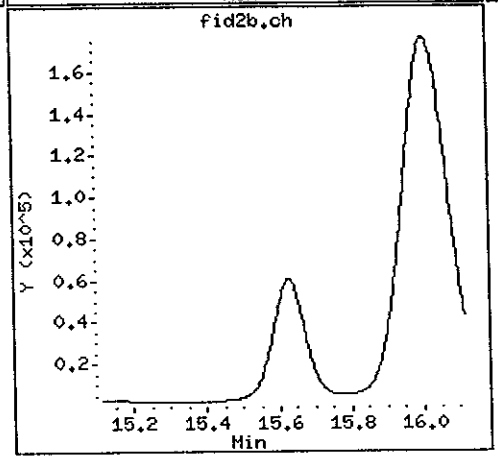


22 trichloroethene

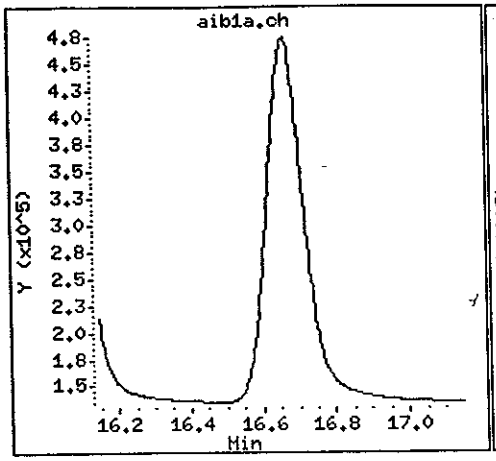


23 1,2-dichloropropane

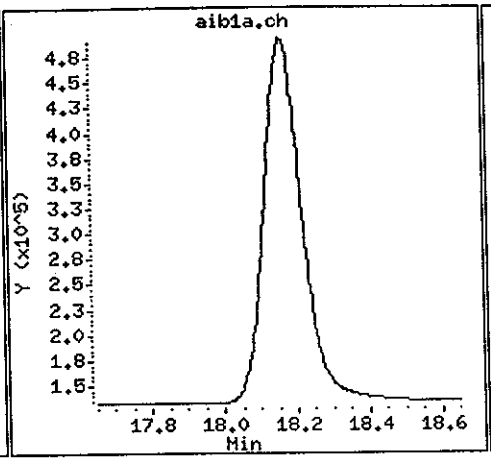




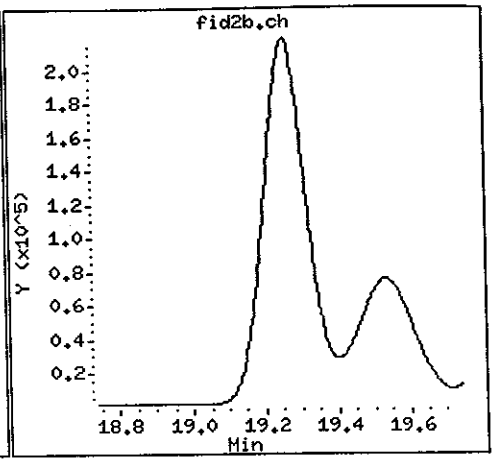
24 bromodichloromethane



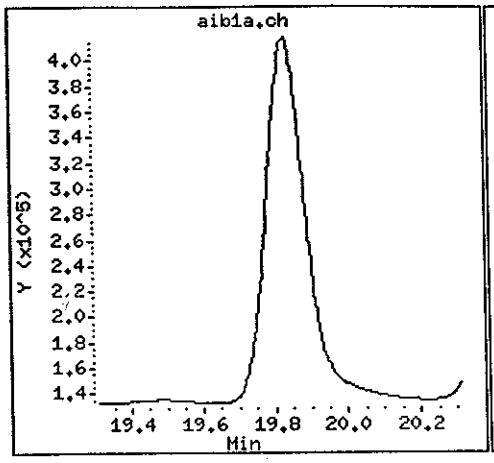
25 cis-1,3-dichloropropene



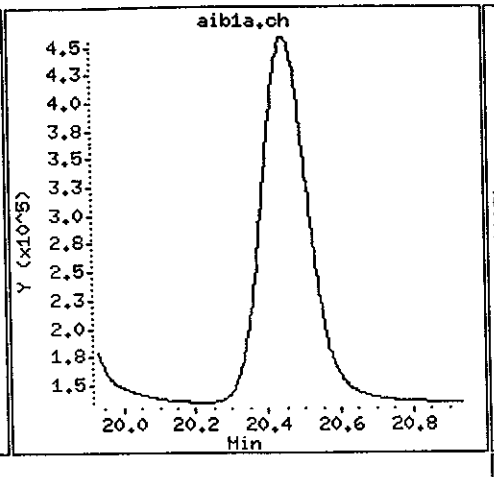
26 Toluene



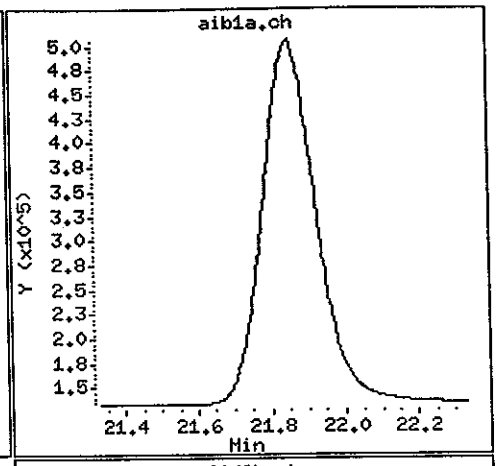
27 trans-1,3-dichloropropen

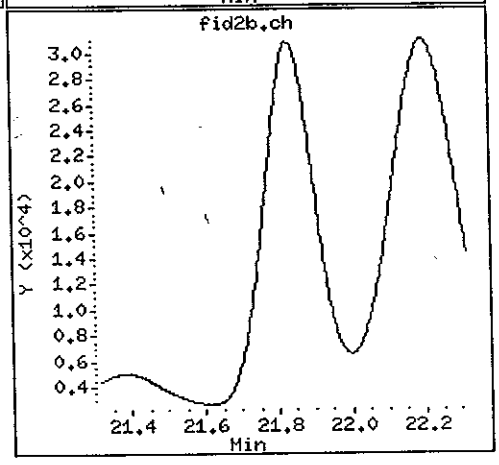


28 1,1,2-trichlorethane

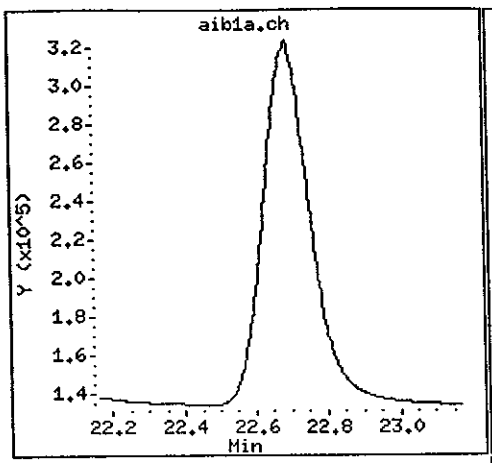


29 tetrachloroethene

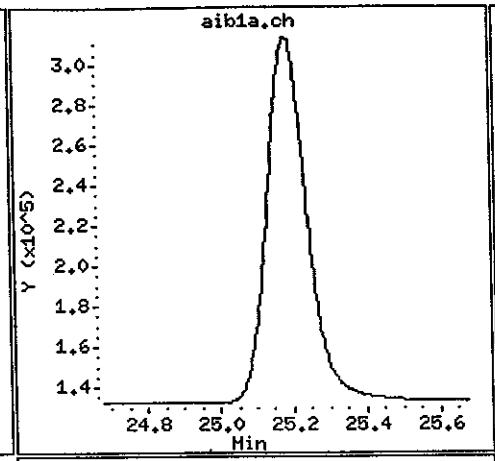




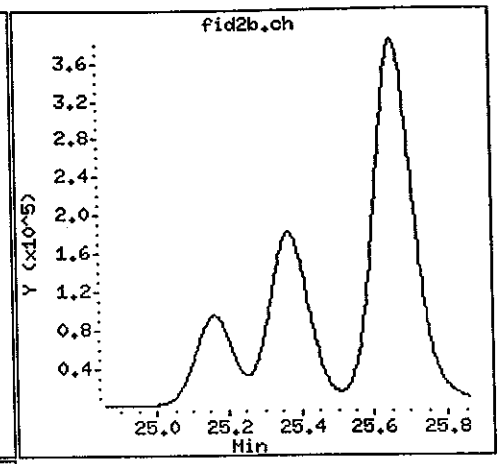
30 dibromochloromethane

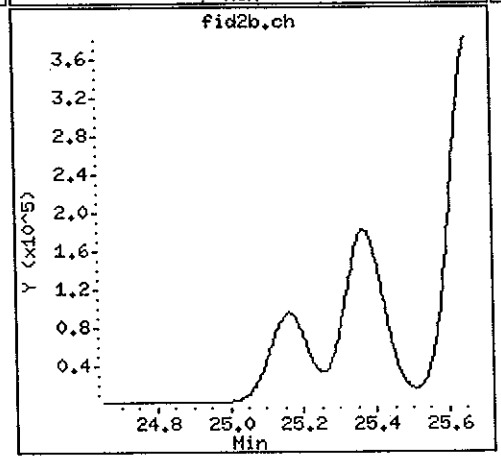


31 chlorobenzene

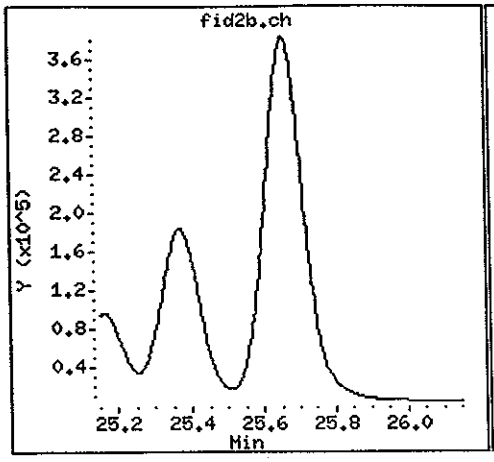


32 Ethylbenzene

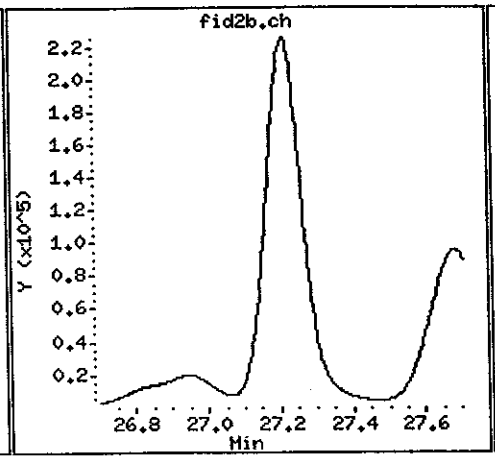




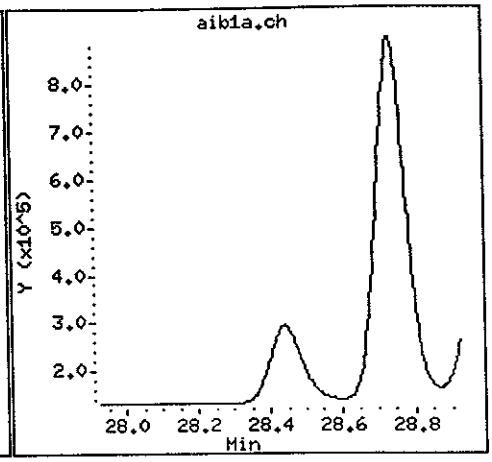
33 m,p-xylene



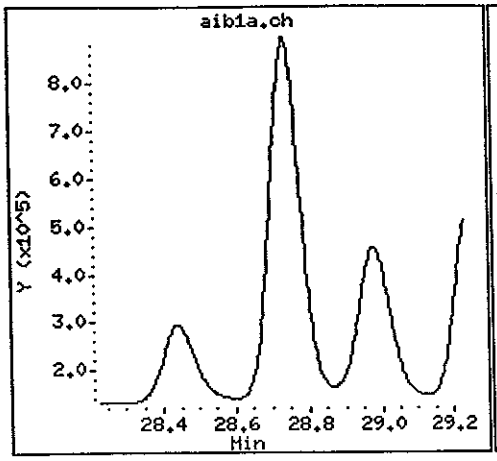
35 o-xylene



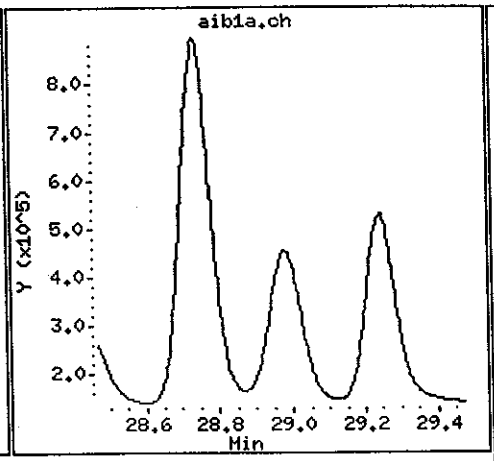
36 bromoform



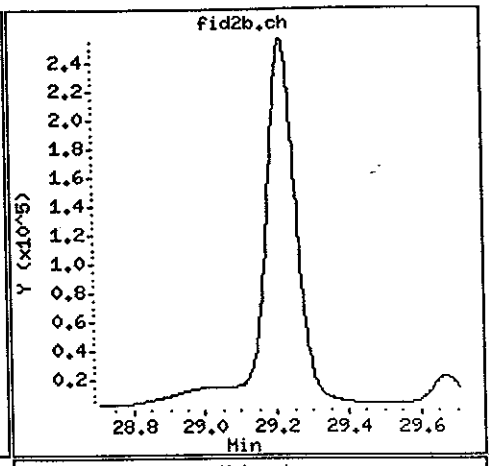
$ 37 1,4-dichlorobutane

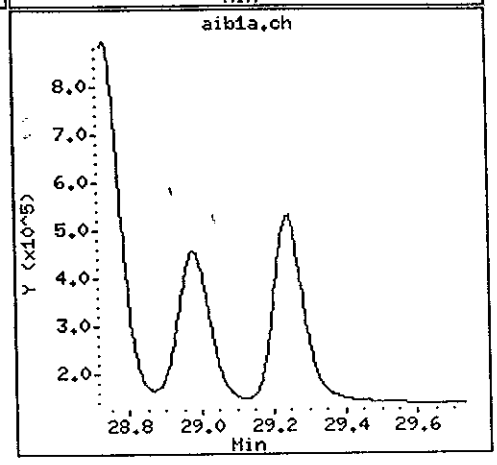


38 1,1,2,2-tetrachloroethan

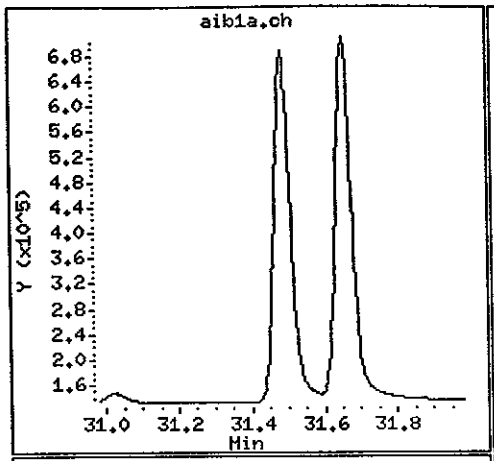


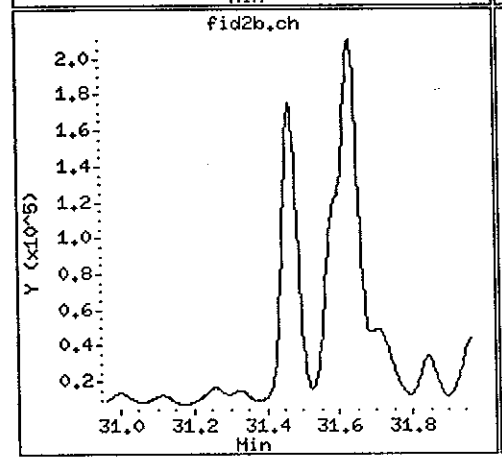
$ 39 4-bromofluorobenzene



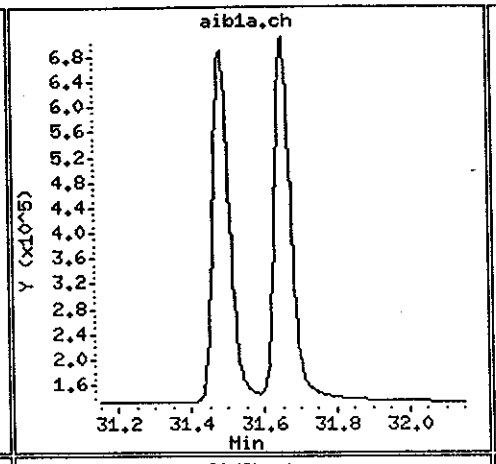


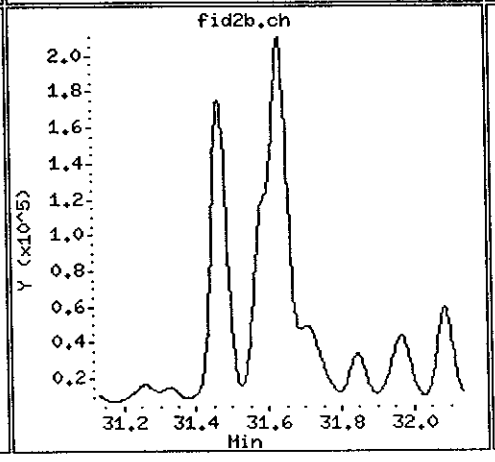
40 1,3-dichlorobenzene



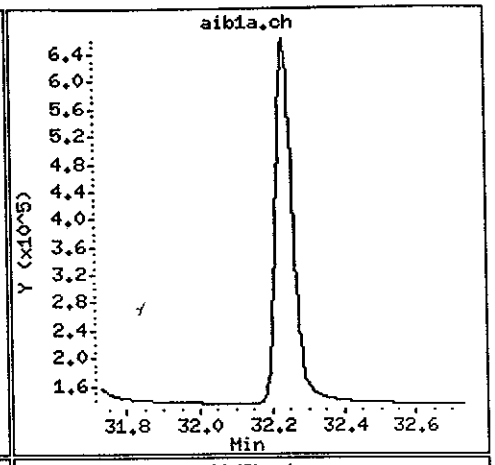


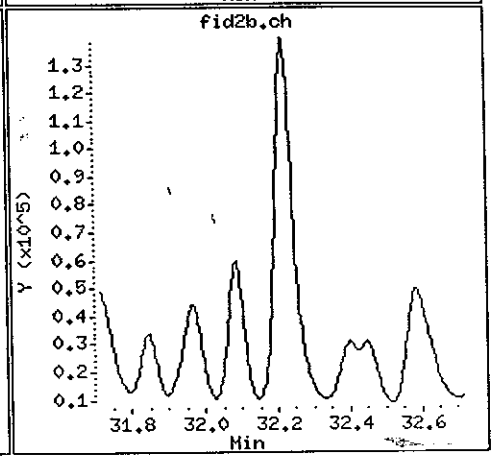
41 1,4-dichlorobenzene





42 1,2-dichlorobenzene





PEL Laboratories, Inc.

Data file : \\Kholley\EE\chem\vgc2.i\V2051702.b\29-3D.D
Lab Smp Id: 220402901SD Client Smp ID: 062CEF432NSD
Inj Date : 17-MAY-2002 12:10
Operator : Inst ID: vgc2.i
Smp Info : 220402903
Misc Info :
Comment :
Method : \\Kholley\EE\chem\vgc2.i\V2051702.b\8021.m
Meth Date : 23-May-2002 09:14 lpelo Quant Type: ISTD
Cal Date : 16-MAY-2002 17:50 Cal File: 100PPB.D
Als bottle: 9 QC Sample: MSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8021rl.sub
Target Version: 4.04
Processing Host: FILES

Concentration Formula: Amt * DF * Vf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
1	dichlorodifluoromethane	AIB1A	4.716	4.716	(0.368)	858030	8.02339	8.0
2	chloromethane	AIB1A	5.253	5.243	(0.410)	709506	12.3635	12.4
3	vinyl chloride	AIB1A	5.543	5.540	(0.432)	1038937	9.07168	9.1(Q)
4	bromomethane	AIB1A	6.533	6.523	(0.509)	971011	12.1656	12.2
5	chloroethane	AIB1A	6.716	6.716	(0.524)	1792657	10.2719	10.3
6	trichlorofluoromethane	AIB1A	7.220	7.210	(0.563)	1577412	11.5454	11.5
8	1,1-dichloroethene	AIB1A	8.503	8.503	(0.663)	2895018	11.0004	11.0(Q)
9	methylene chloride	AIB1A	9.383	9.506	(0.732)	3362387	11.1271	11.1
10	MTBE	FID2B	9.666	9.666	(0.658)	248665	13.3141	13.3(R)
11	trans 1,2-dichloroethene	AIB1A	10.006	10.006	(0.780)	2819321	10.6128	10.6
13	1,1-dichloroethane	AIB1A	10.866	10.856	(0.847)	2950111	11.2096	11.2
14	cis-1,2-dichloroethene	AIB1A	12.130	12.123	(0.946)	2761321	10.8213	10.8
M 12	1,2-Dichloroethene (tot)	AIB1A				5580642	21.4340	21.4
15	chloroform	AIB1A	12.460	12.456	(0.971)	3665984	11.0014	11.0
* 16	Bromochloromethane	AIB1A	12.826	12.816	(1.000)	6149764	30.0000	
17	1,1,1-trichloroethane	AIB1A	13.346	13.343	(1.041)	3361839	11.6657	11.7
18	carbon tetrachloride	AIB1A	13.930	13.920	(1.086)	3759473	11.3182	11.3

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	19 1,2-dichloroethane	AIB1A	14.193	14.190	(1.107)	2739601	10.7422	10.7
	20 Benzene	FID2B	14.260	14.256	(0.971)	578274	10.6259	10.6
*	21 Fluorobenzene	FID2B	14.690	14.683	(1.000)	1143726	30.0000	
	22 trichloroethene	AIB1A	15.636	15.630	(1.219)	3379207	11.0520	11.0
	23 1,2-dichloropropane	AIB1A	16.046	16.040	(1.251)	2658060	11.4114	11.4
	24 bromodichloromethane	AIB1A	16.660	16.646	(1.299)	2370977	10.7853	10.8
	25 cis-1,3-dichloropropene	AIB1A	18.153	18.150	(1.415)	2557545	11.4404	11.4
	26 Toluene	FID2B	19.246	19.240	(1.310)	1811826	35.6390	35.6(R)
	27 trans-1,3-dichloropropene	AIB1A	19.830	19.810	(1.546)	2086703	10.7296	10.7
	28 1,1,2-trichlorethane	AIB1A	20.443	20.433	(1.594)	2720631	11.3274	11.3
	29 tetrachloroethene	AIB1A	21.843	21.830	(1.703)	3633406	11.0212	11.0
	30 dibromochloromethane	AIB1A	22.686	22.666	(1.769)	1669983	10.6968	10.7
	31 chlorobenzene	AIB1A	25.183	25.176	(1.963)	1311919	11.2607	11.3
	32 Ethylbenzene	FID2B	25.366	25.356	(1.727)	1388895	30.1408	30.1(R)
	33 m,p-xylene	FID2B	25.653	25.650	(1.746)	2911908	57.1477	57.1(R)
	35 o-xylene	FID2B	27.210	27.203	(1.852)	1546801	36.2673	36.3(R)
	36 bromoform	AIB1A	28.443	28.423	(2.218)	989681	10.4769	10.5
M	34 Xylene (tot)	FID2B				4458709	93.4150	93.4(R)
$	37 1,4-dichlorobutane	AIB1A	28.733	28.730	(2.240)	4504524	29.2597	29.2
	38 1,1,2,2-tetrachloroethane	AIB1A	28.976	28.970	(2.259)	1930299	11.7063	11.7
$	39 4-bromofluorobenzene	FID2B	29.220	29.206	(1.989)	1507297	32.4736	32.5
	40 1,3-dichlorobenzene	AIB1A	31.486	31.483	(2.455)	1665009	11.5769	11.6
	41 1,4-dichlorobenzene	AIB1A	31.656	31.650	(2.468)	1806861	11.6782	11.7(Q)
	42 1,2-dichlorobenzene	AIB1A	32.240	32.230	(2.514)	1600524	11.5667	11.6

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

PEL Laboratories, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vgc2.i
Lab File ID: 29-3D.D
Lab Smp Id: 220402901SD
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\Kholley\EE\chem\vgc2.i\V2051702.b\8021.m
Misc Info:

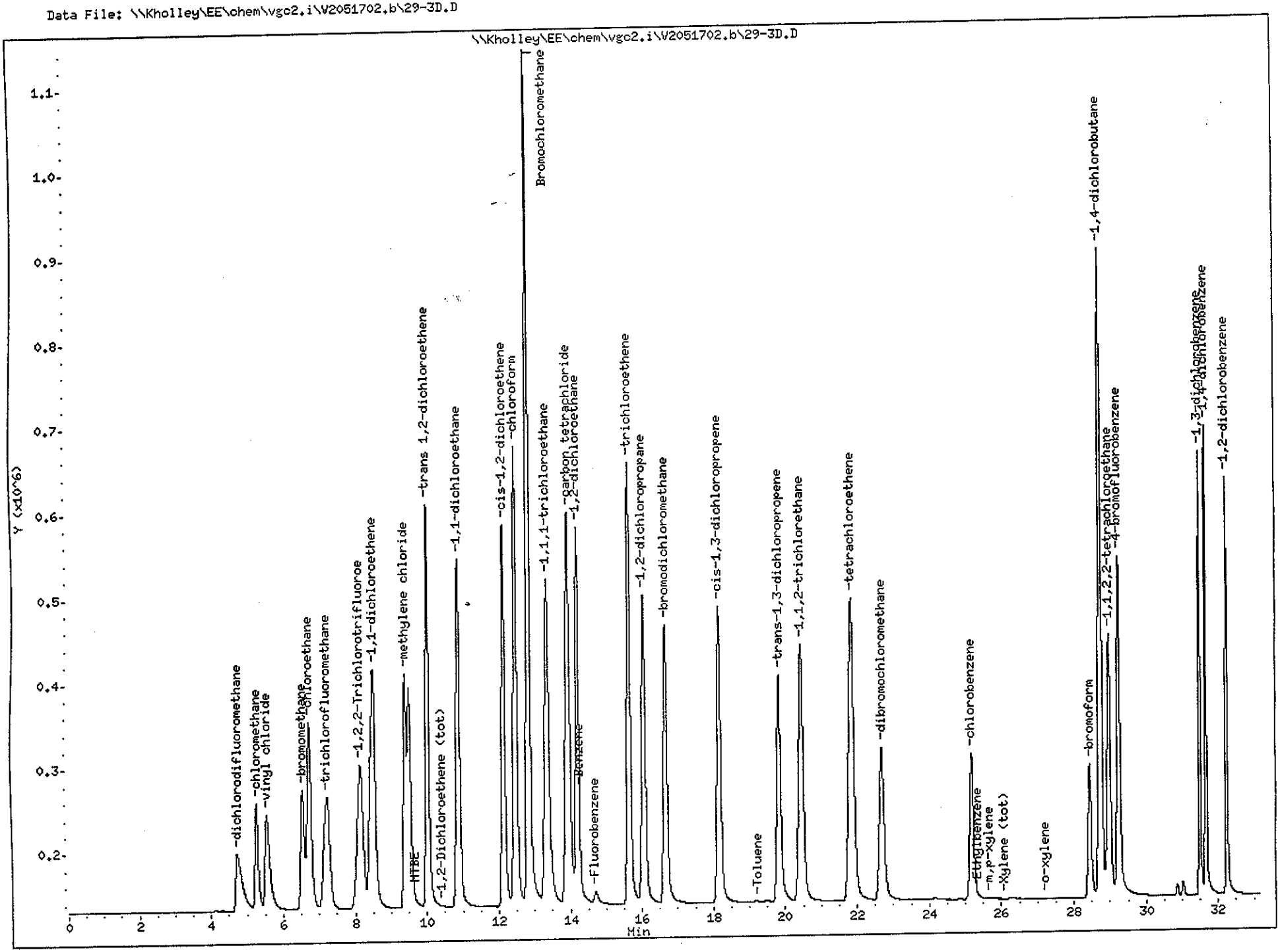
Calibration Date: 17-MAY-2002
Calibration Time: 21:18
Client Smp ID: 062CEF432NSD
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	6476764	3238382	12953528	6149764	-5.05
21 Fluorobenzene	1140461	570231	2280922	1143726	0.29

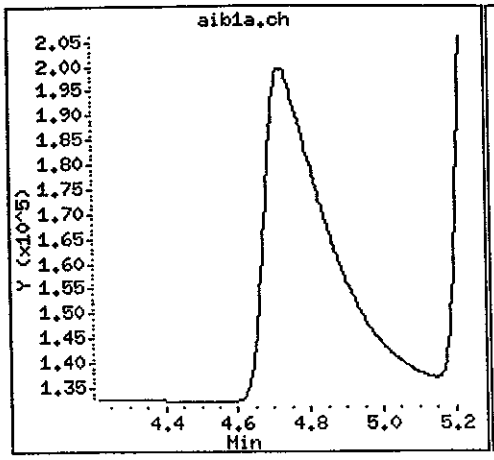
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	12.82	12.32	13.32	12.83	0.08
21 Fluorobenzene	14.68	14.18	15.18	14.69	0.05

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

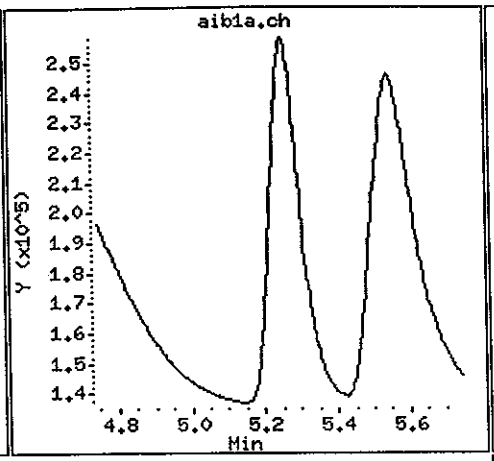
Data File: \\Kholley\EE\chem\vgc2.i\V2051702.b\29-3D.D



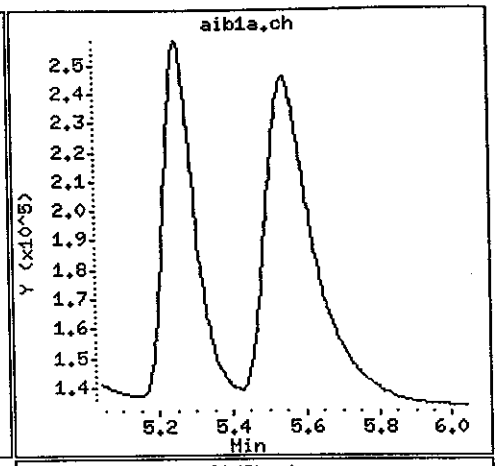
1 dichlorodifluoromethane

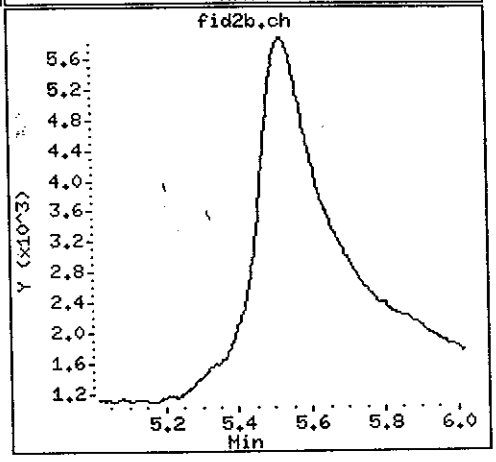


2 chloromethane

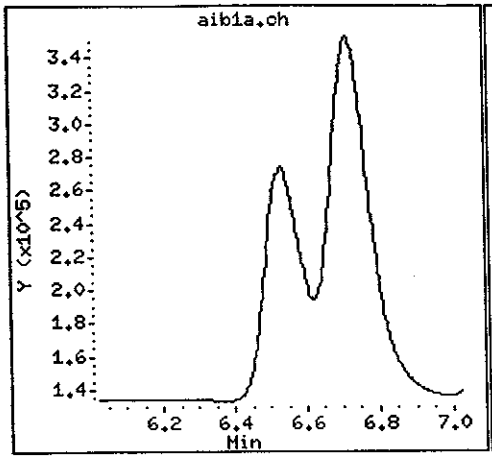


3 vinyl chloride

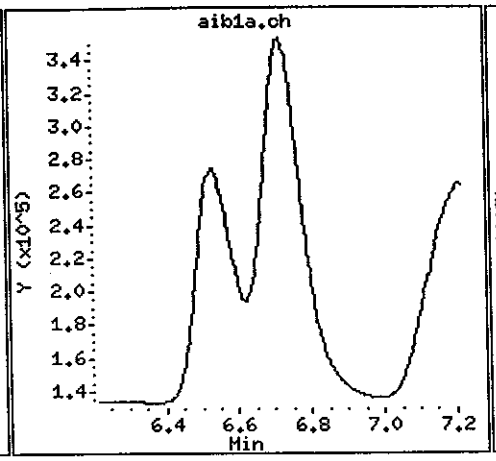




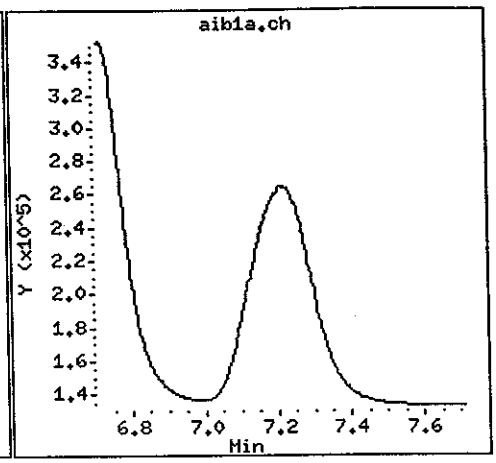
4 bromomethane



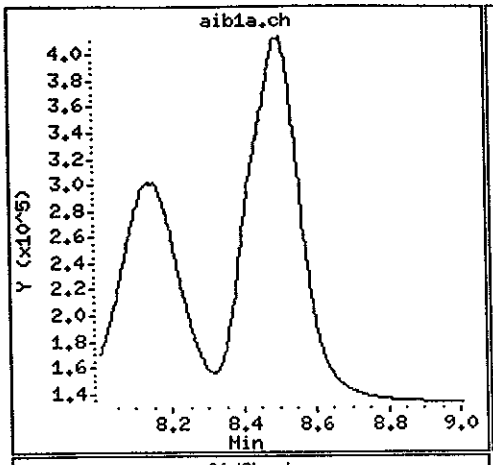
5 chloroethane



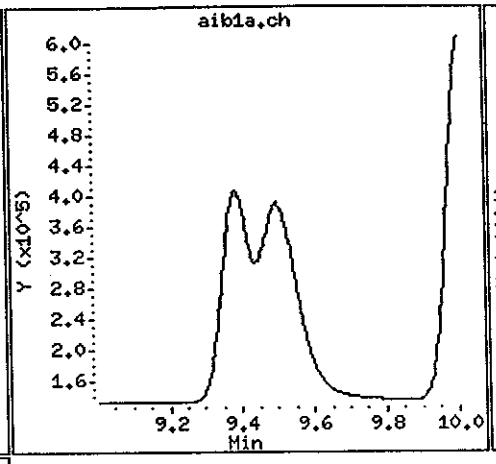
6 trichlorofluoromethane



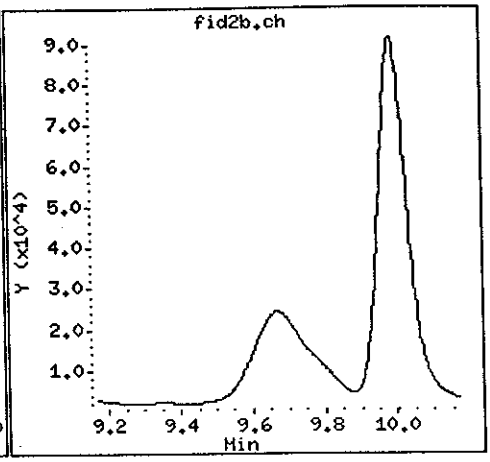
8 1,1-dichloroethene

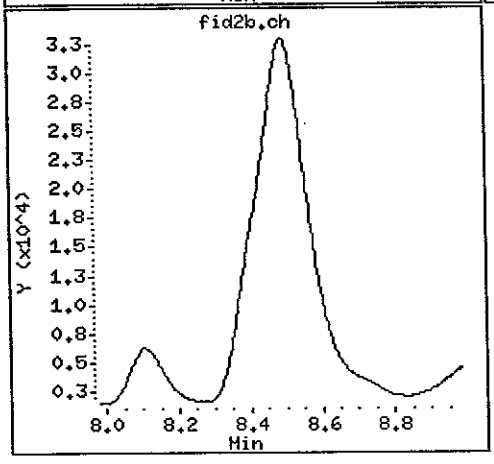


9 methylene chloride

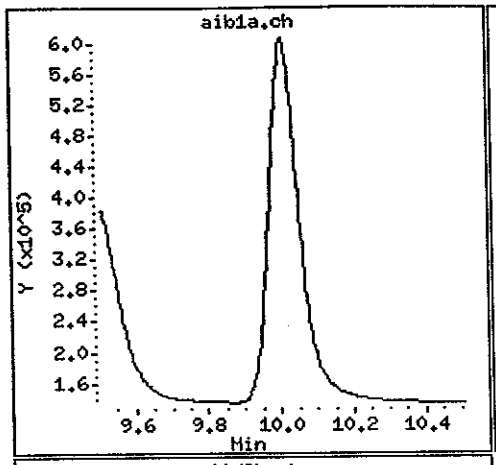


10 MTBE

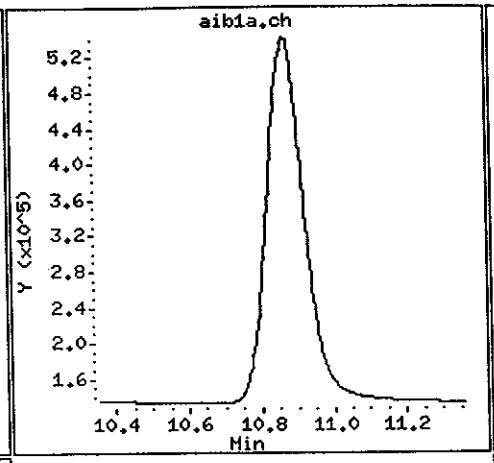




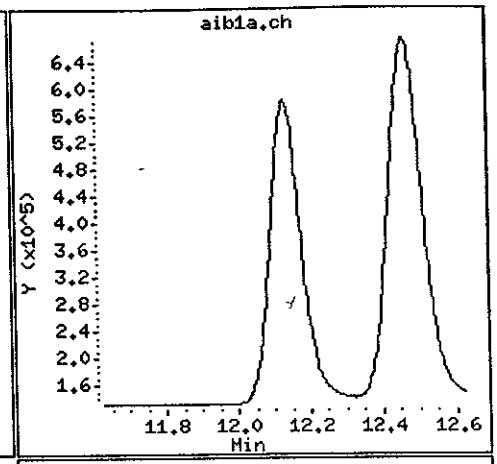
11 trans 1,2-dichloroethene

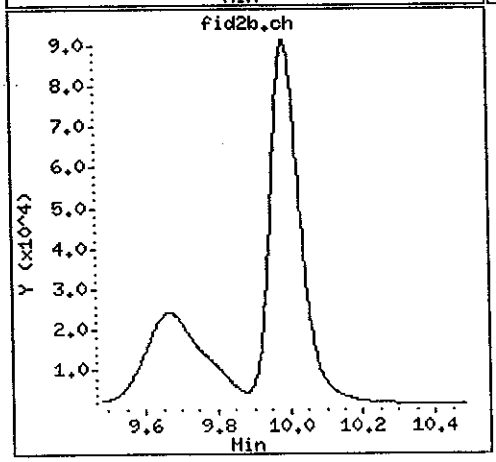


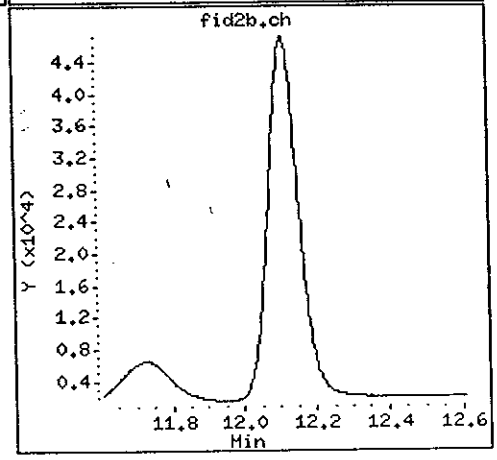
13 1,1-dichloroethane



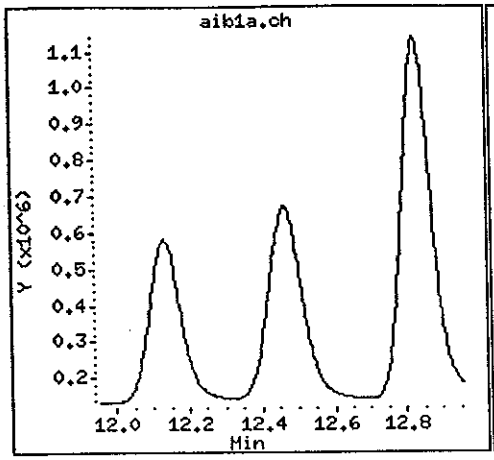
14 cis-1,2-dichloroethene



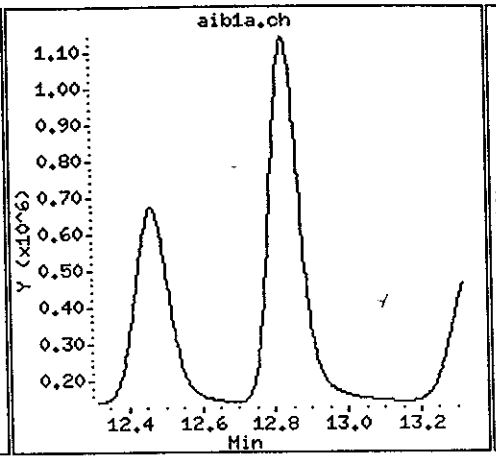




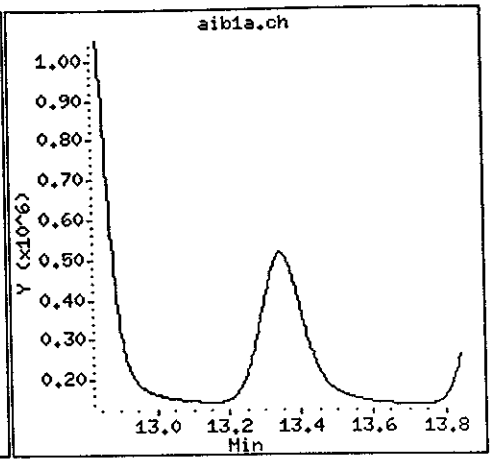
15 chloroform



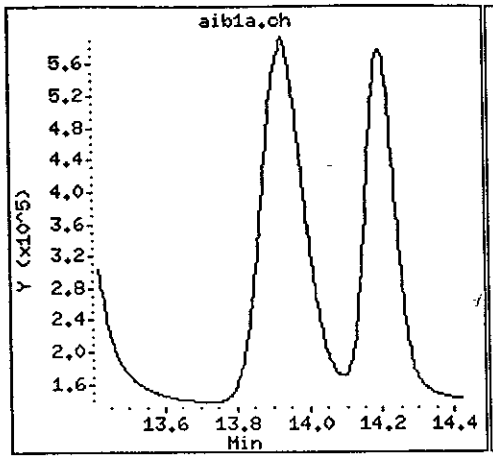
* 16 Bromochloromethane



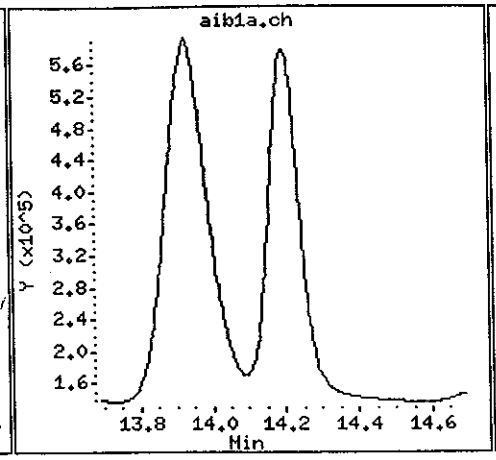
17 1,1,1-trichloroethane



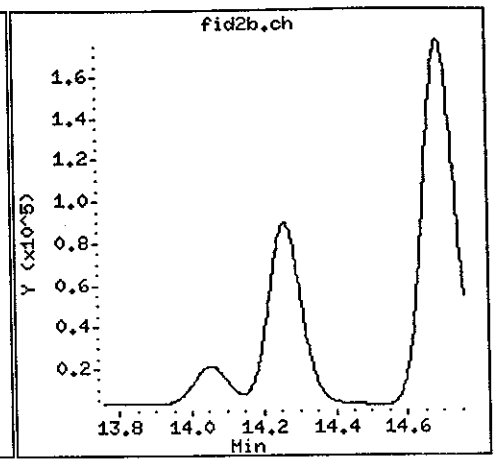
18 carbon tetrachloride



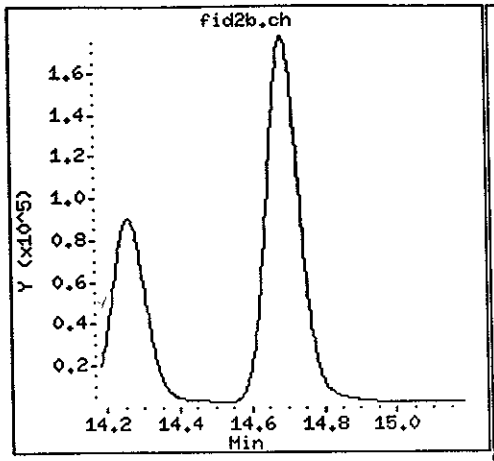
19 1,2-dichloroethane



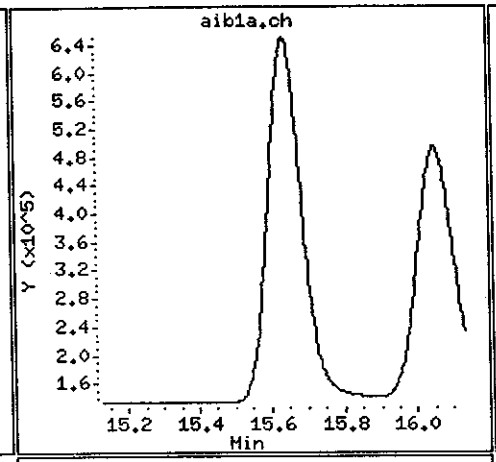
20 Benzene



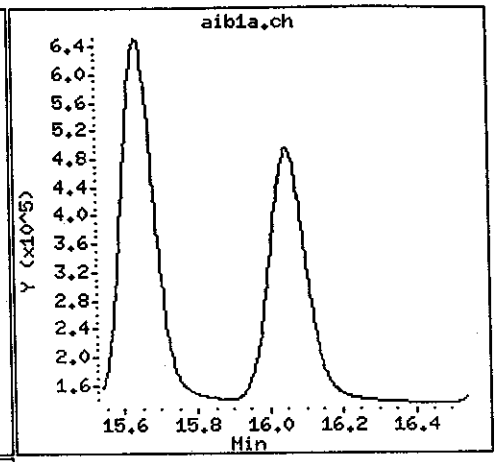
× 21 Fluorobenzene

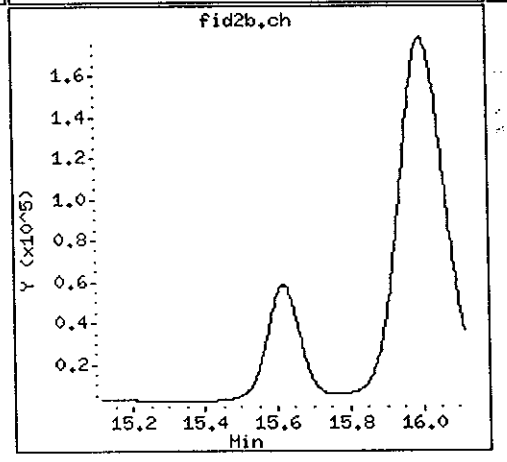


22 trichloroethene

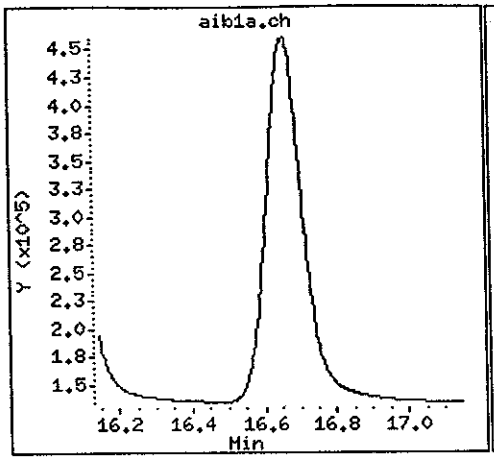


23 1,2-dichloropropane

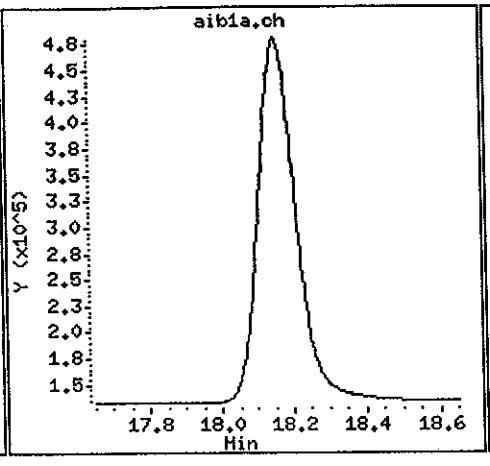




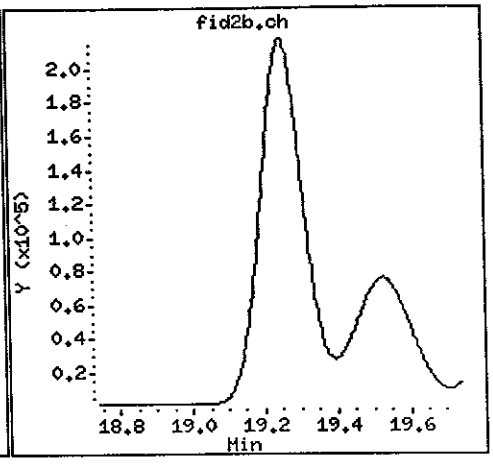
24 bromodichloromethane



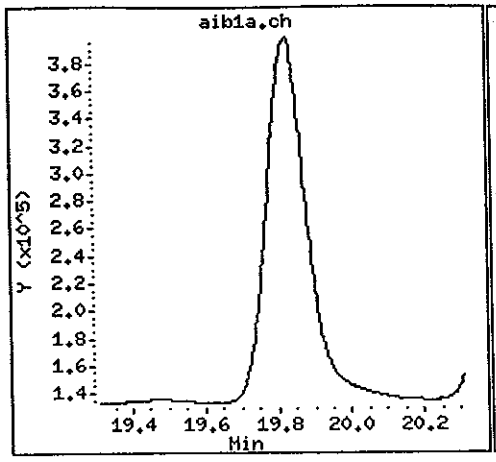
25 cis-1,3-dichloropropene



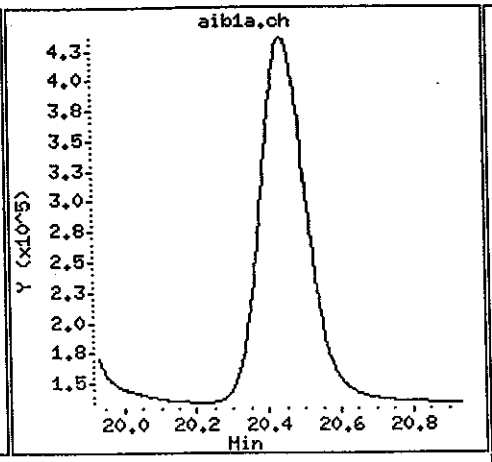
26 Toluene



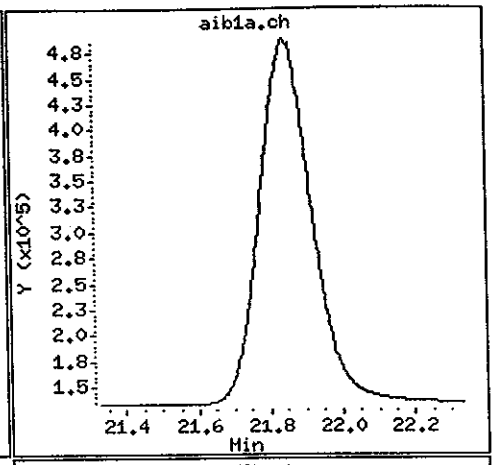
27 trans-1,3-dichloropropen

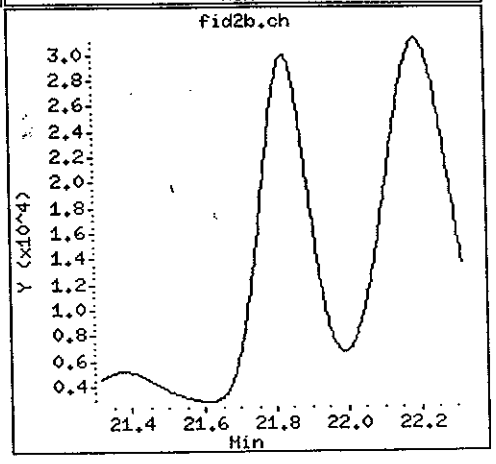


28 1,1,2-trichlorethane

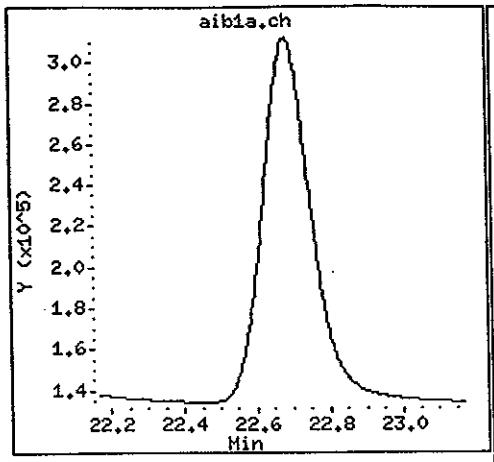


29 tetrachloroethene

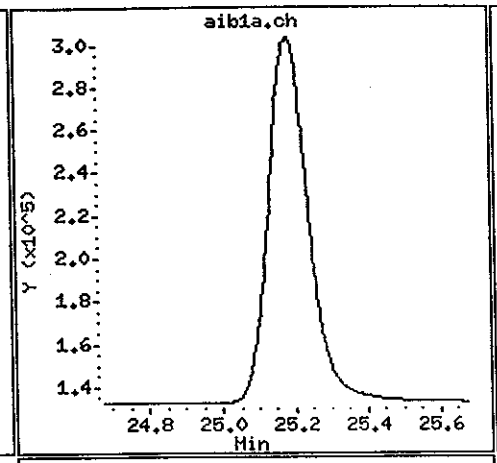




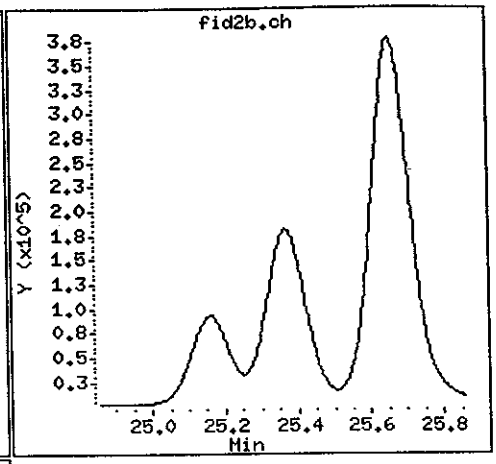
30 dibromochloromethane

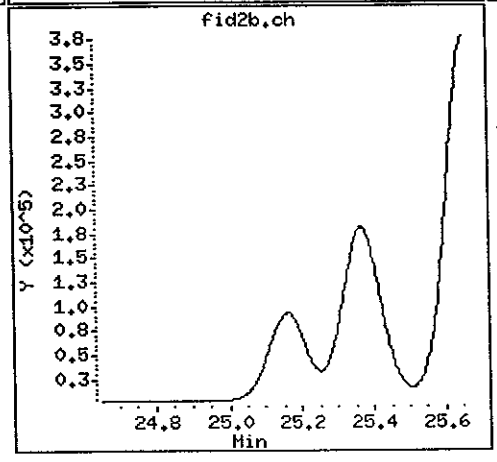


31 chlorobenzene

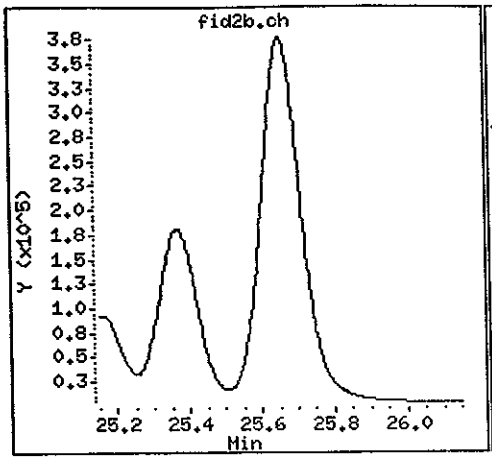


32 Ethylbenzene

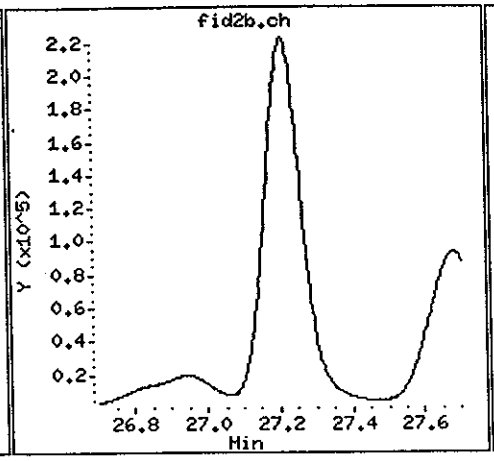




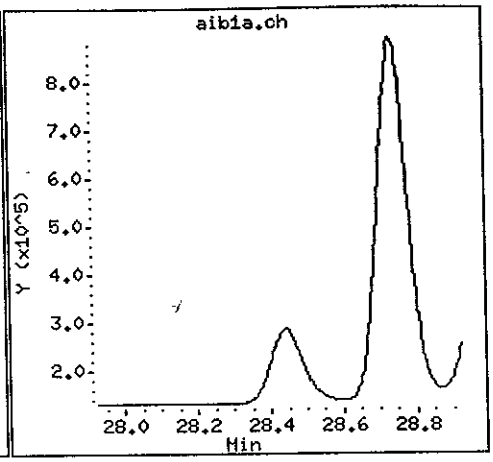
33 m,p-xylene



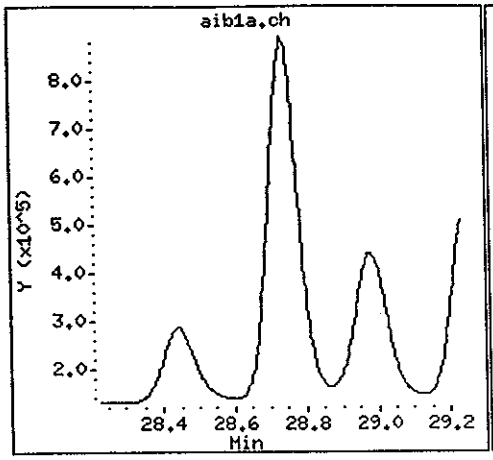
35 o-xylene



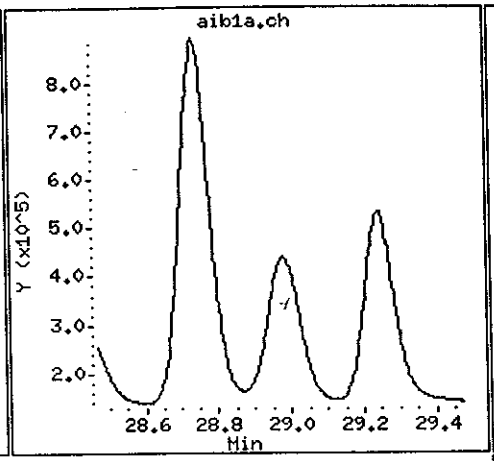
36 bromoform



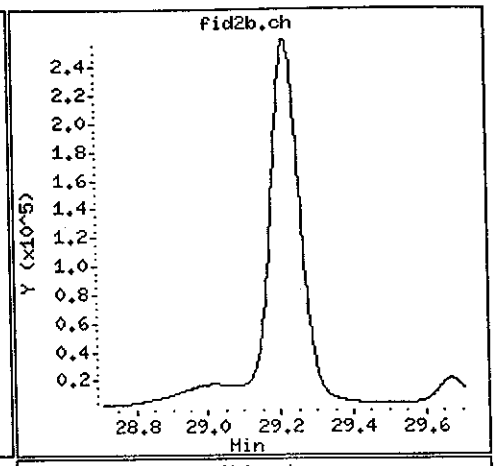
\$ 37 1,4-dichlorobutane

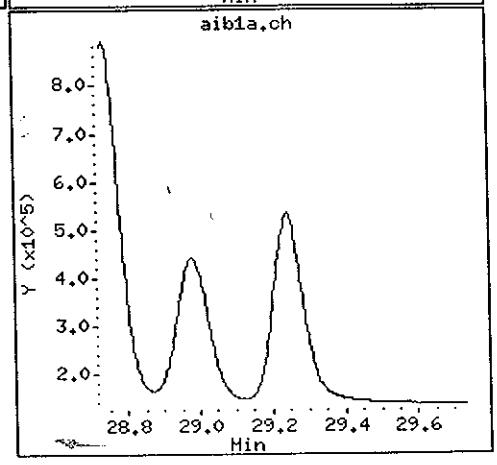


38 1,1,2,2-tetrachloroethan



\$ 39 4-bromofluorobenzene

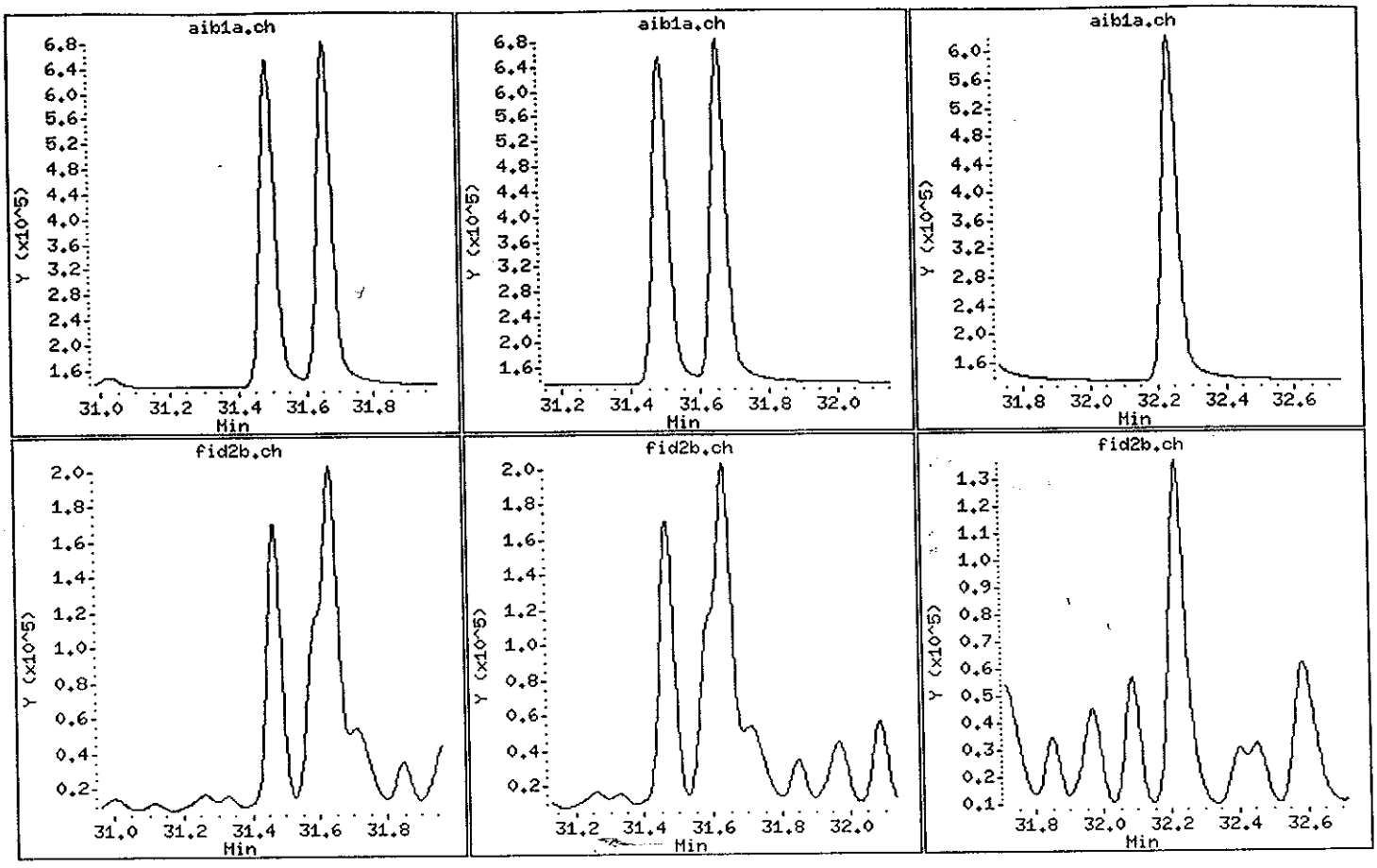




40 1,3-dichlorobenzene

41 1,4-dichlorobenzene

42 1,2-dichlorobenzene



PEL Laboratories, Inc.

Data file : \\Kholley\EE\chem\vgc2.i\V2051702.b\29-4.D
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Inj Date : 17-MAY-2002 12:51
Operator : Inst ID: vgc2.i
Smp Info : 220402904
Misc Info :
Comment :
Method : \\Kholley\EE\chem\vgc2.i\V2051702.b\8021.m
Meth Date : 23-May-2002 09:14 lpelo Quant Type: ISTD
Cal Date : 16-MAY-2002 17:50 Cal File: 100PPB.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8021rl.sub
Target Version: 4.04
Processing Host: FILES

Concentration Formula: Amt * DF * Vf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
*	16 Bromochloromethane	AIB1A	12.830	12.816	(1.000)	5999040	30.0000	
*	21 Fluorobenzene	FID2B	14.696	14.683	(1.000)	1119242	30.0000	
	26 Toluene	FID2B	19.256	19.240	(1.310)	33089	0.66510	0.66(a)
	32 Ethylbenzene	FID2B	25.370	25.356	(1.726)	703687	15.6050	15.6
	33 m,p-xylene	FID2B	25.660	25.650	(1.746)	1832976	36.7600	36.8
	35 o-xylene	FID2B	27.216	27.203	(1.852)	1291045	30.9328	30.9
M	34 Xylene (tot)	FID2B				3124021	67.6929	67.7
$	37 1,4-dichlorobutane	AIB1A	28.743	28.730	(2.240)	4523918	30.1240	30.1
$	39 4-bromofluorobenzene	FID2B	29.226	29.206	(1.989)	1443711	31.7841	31.8

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\Kholley\EE\chem\vgc2.i\V2051702.b\29-4.D
Report Date: 23-May-2002 09:32

PEL Laboratories, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vgc2.i
Lab File ID: 29-4.D
Lab Smp Id: 220402904
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\Kholley\EE\chem\vgc2.i\V2051702.b\8021.m
Misc Info:

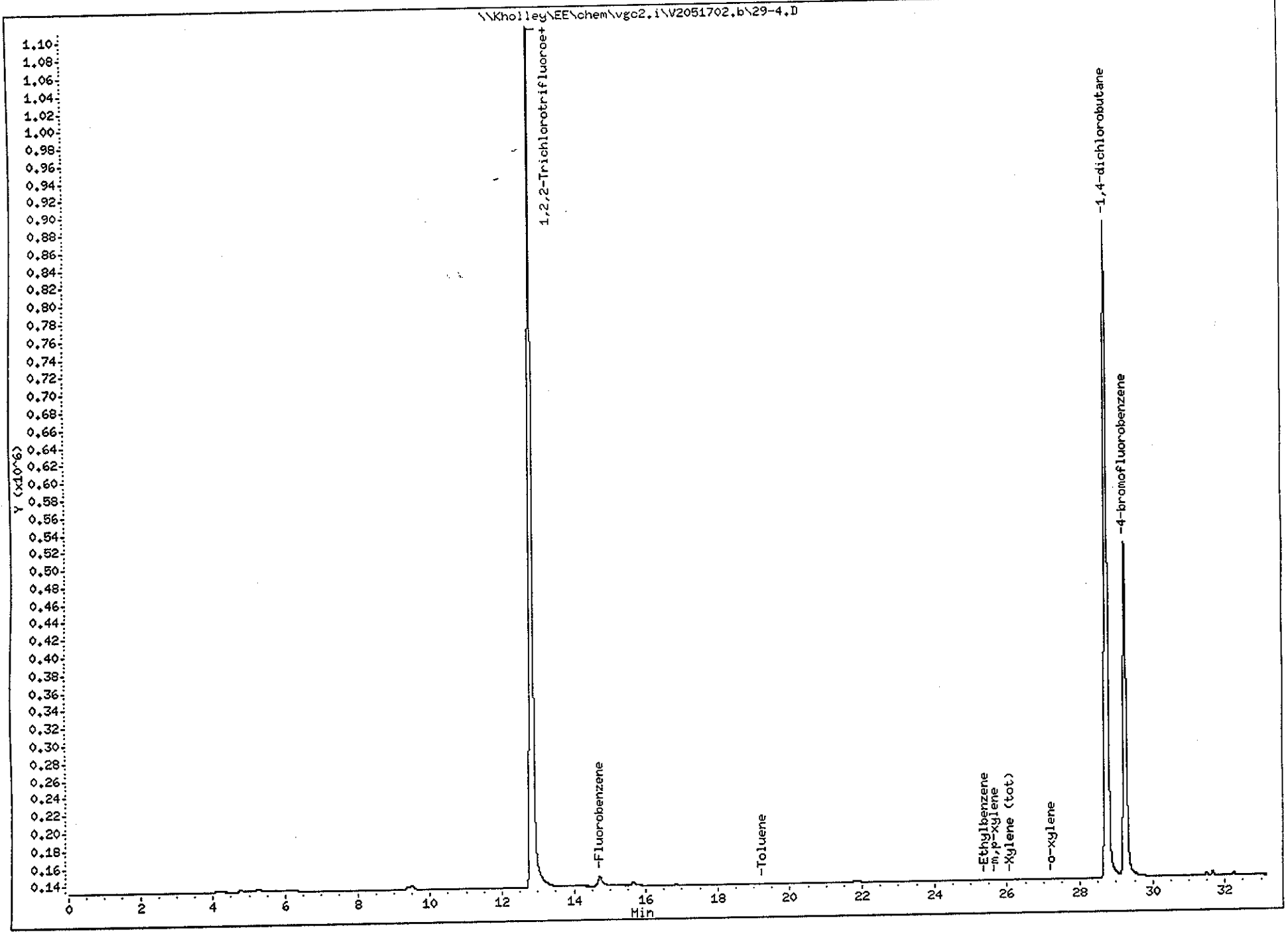
Calibration Date: 17-MAY-2002
Calibration Time: 21:18
Client Smp ID: 062CEF436N
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	6476764	3238382	12953528	5999040	-7.38
21 Fluorobenzene	1140461	570231	2280922	1119242	-1.86

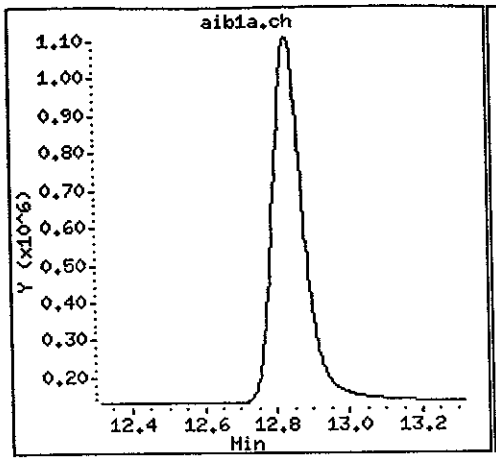
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	12.82	12.32	13.32	12.83	0.10
21 Fluorobenzene	14.68	14.18	15.18	14.70	0.09

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

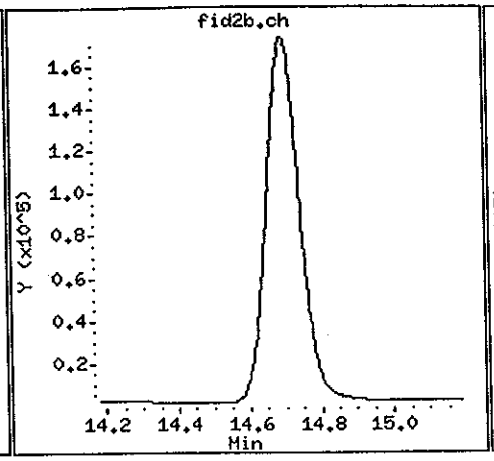
Data File: \\Kholley\EE\chem\vgc2.i\V2051702.b\29-4.D



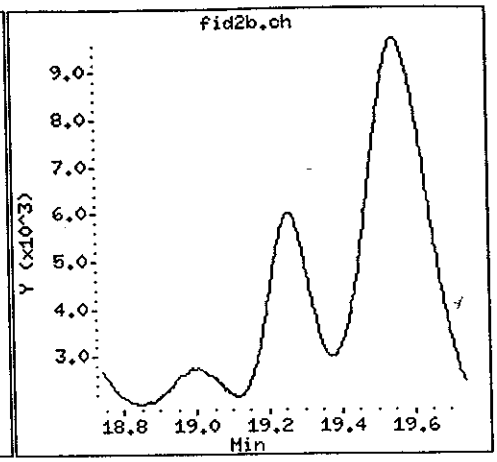
* 16 Bromochloromethane



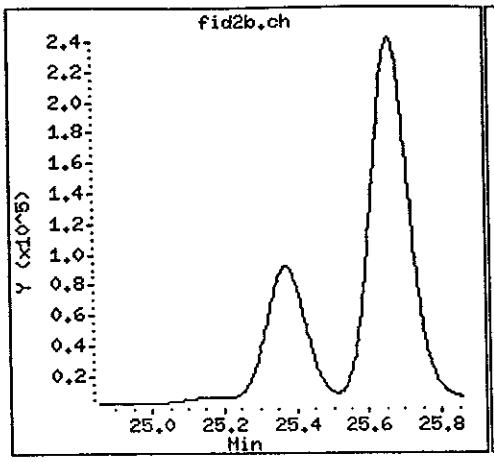
* 21 Fluorobenzene



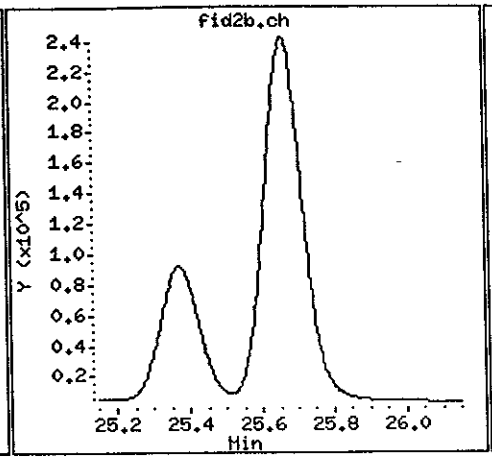
26 Toluene



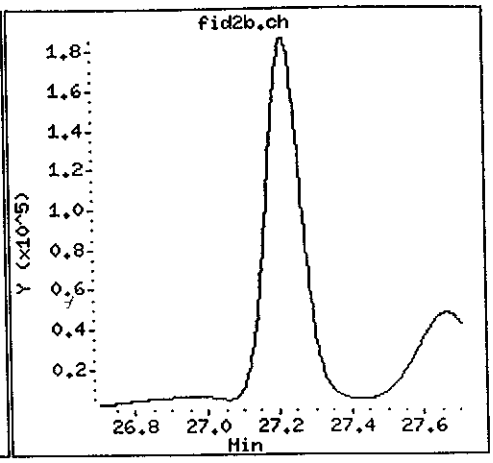
32 Ethylbenzene



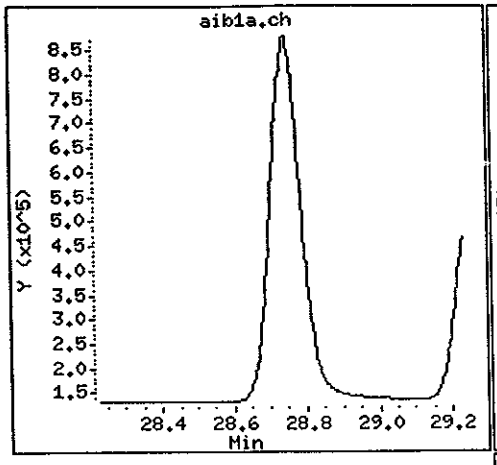
33 m,p-xylene



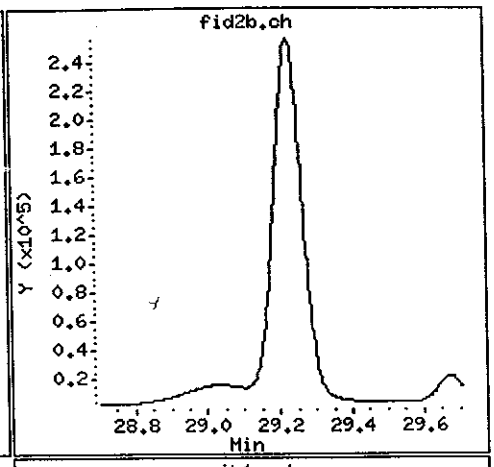
35 o-xylene

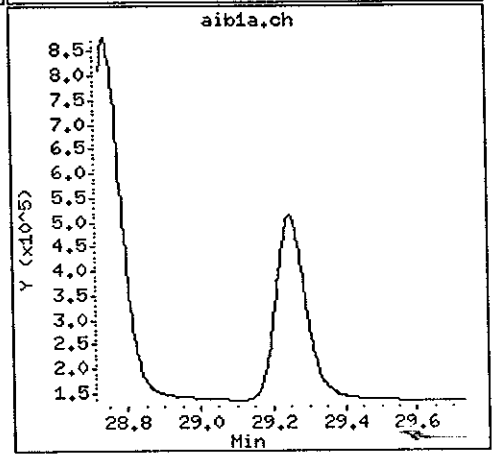


$ 37 1,4-dichlorobutane



$ 39 4-bromofluorobenzene





PEL Laboratories, Inc.

Data file : \\Kholley\EE\chem\vgc2.i\V2051702.b\29-5.D
Lab Smp Id: 220402905 Client Smp ID: 062CEF437N
Inj Date : 17-MAY-2002 13:34
Operator : Inst ID: vgc2.i
Smp Info : 220402905
Misc Info :
Comment :
Method : \\Kholley\EE\chem\vgc2.i\V2051702.b\8021.m
Meth Date : 23-May-2002 09:14 lpelo Quant Type: ISTD
Cal Date : 16-MAY-2002 17:50 Cal File: 100PPB.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8021rl.sub
Target Version: 4.04
Processing Host: FILES

Concentration Formula: Amt * DF * Vf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	

Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 16 Bromochloromethane	AIB1A	12.843	12.816	(1.000)	6267942	30.0000	
* 21 Fluorobenzene	FID2B	14.706	14.683	(1.000)	1154166	30.0000	
$ 37 1,4-dichlorobutane	AIB1A	28.756	28.730	(2.239)	4722912	30.0998	30.1
$ 39 4-bromofluorobenzene	FID2B	29.240	29.206	(1.988)	1406748	30.0332	30.0

PEL Laboratories, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vgc2.i
Lab File ID: 29-5.D
Lab Smp Id: 220402905
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\Kholley\EE\chem\vgc2.i\V2051702.b\8021.m
Misc Info:

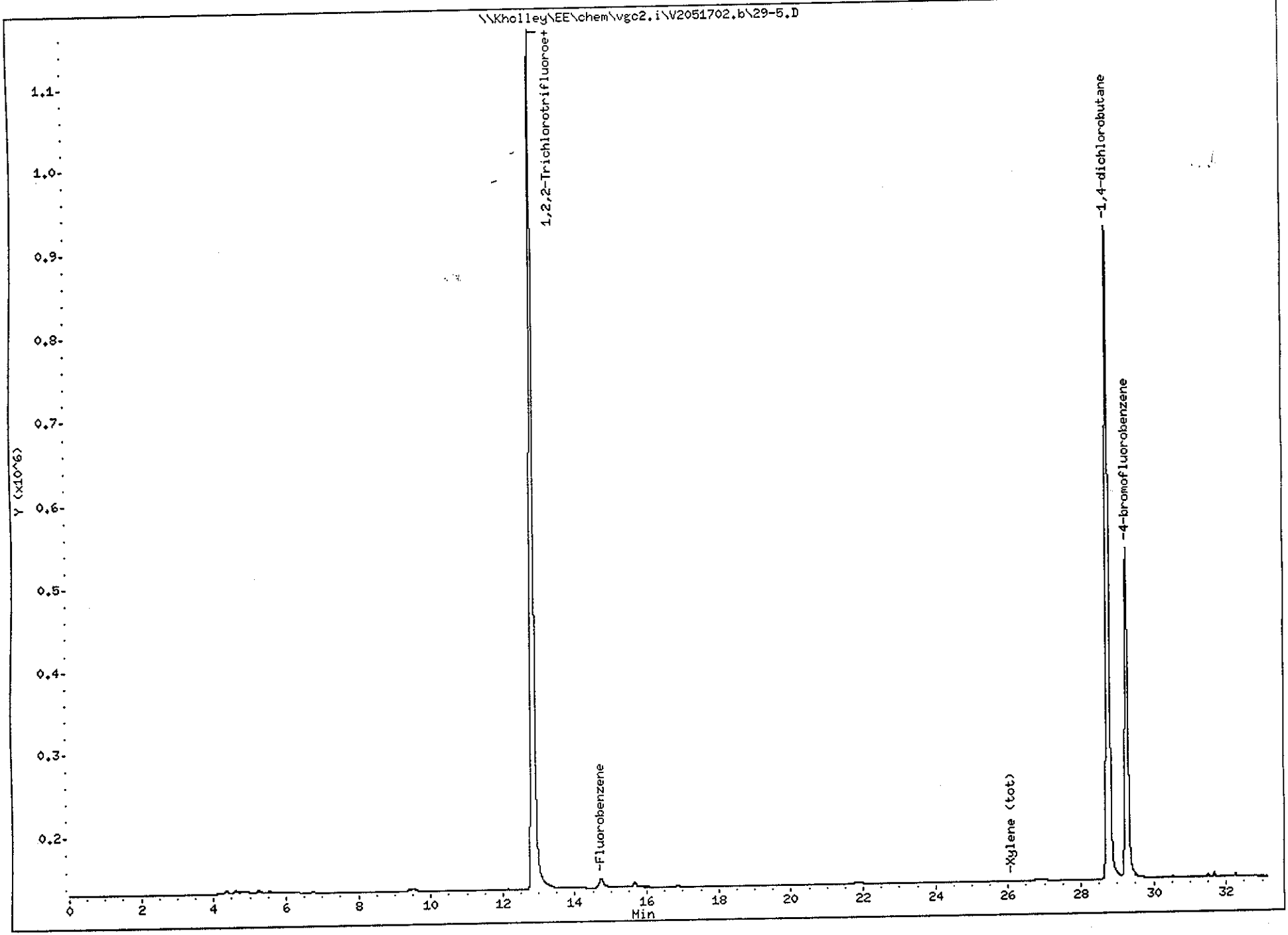
Calibration Date: 17-MAY-2002
Calibration Time: 21:18
Client Smp ID: 062CEF437N
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	6476764	3238382	12953528	6267942	-3.22
21 Fluorobenzene	1140461	570231	2280922	1154166	1.20

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	12.82	12.32	13.32	12.84	0.21
21 Fluorobenzene	14.68	14.18	15.18	14.71	0.16

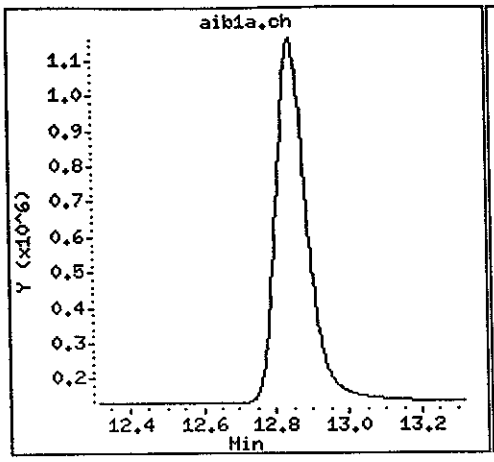
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\Kholley\EE\chem\vgc2.i\V2051702.b\29-5.D

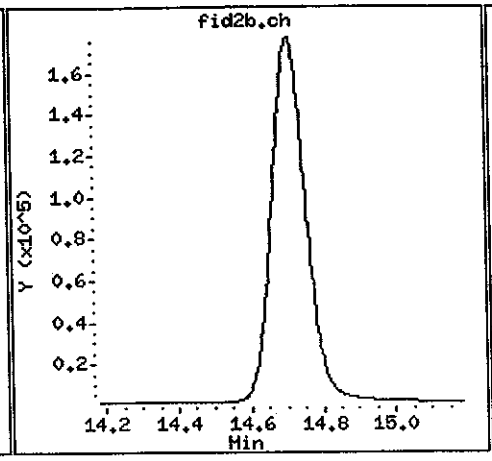


Data File: \\Kholley\EE\chem\vgc2.i\V2051702.b\29-5.D

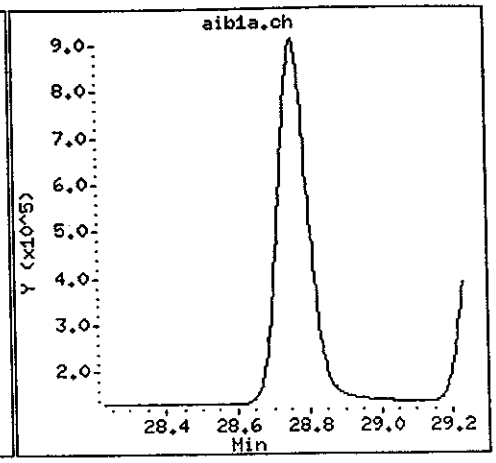
× 16 Bromochloromethane



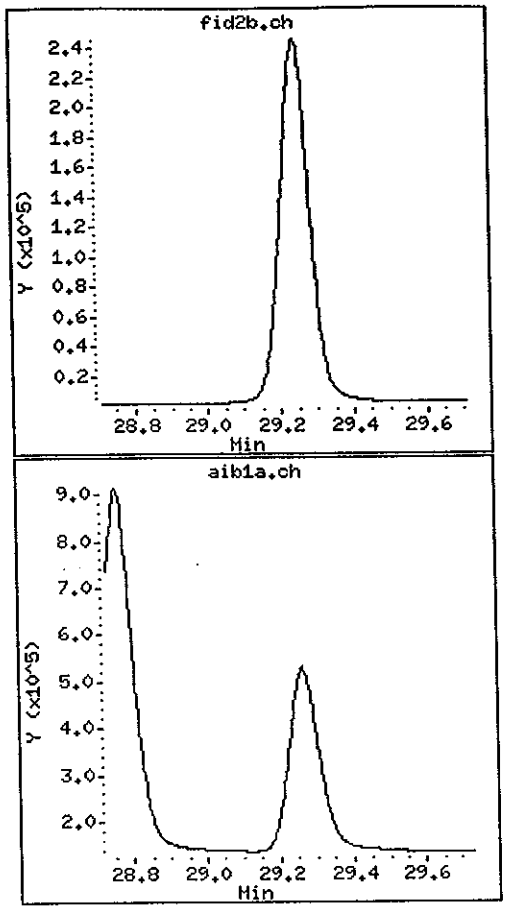
× 21 Fluorobenzene



$ 37 1,4-dichlorobutane



\$ 39 4-bromofluorobenzene



PEL Laboratories, Inc.

Data file : \\Kholley\EE\chem\vgc2.i\V2051702.b\CCV23.D
Lab Smp Id: 0517CCV23 Client Smp ID: 0517CCV23
Inj Date : 17-MAY-2002 14:16
Operator : Inst ID: vgc2.i
Smp Info : 0517CCV23
Misc Info :
Comment :
Method : \\Kholley\EE\chem\vgc2.i\V2051702.b\8021.m
Meth Date : 23-May-2002 09:32 lpelo Quant Type: ISTD
Cal Date : 16-MAY-2002 17:50 Cal File: 100PPB.D
Als bottle: 7 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8021rl.sub
Target Version: 4.04
Processing Host: FILES

Concentration Formula: Amt * DF * Vf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
1	dichlorodifluoromethane	AIB1A	4.726	4.726	(0.368)	3844787	30.0000	32.7
2	chloromethane	AIB1A	5.260	5.260	(0.409)	2135261	30.0000	33.9
3	vinyl chloride	AIB1A	5.556	5.556	(0.433)	3866477	30.0000	30.8
4	bromomethane	AIB1A	6.546	6.546	(0.510)	2869353	30.0000	32.7
5	chloroethane	AIB1A	6.736	6.736	(0.524)	5859994	30.0000	30.6
6	trichlorofluoromethane	AIB1A	7.243	7.243	(0.564)	4565255	30.0000	30.4
8	1,1-dichloroethene	AIB1A	8.526	8.526	(0.664)	8360951	30.0000	28.9
9	methylene chloride	AIB1A	9.406	9.406	(0.732)	9541851	30.0000	28.8
10	MTBE	FID2B	9.693	9.693	(0.659)	674213	30.0000	33.4
11	trans 1,2-dichloroethene	AIB1A	10.030	10.030	(0.781)	8119234	30.0000	27.8
13	1,1-dichloroethane	AIB1A	10.890	10.890	(0.848)	8212761	30.0000	28.4
14	cis-1,2-dichloroethene	AIB1A	12.150	12.150	(0.946)	7733888	30.0000	27.6
M 12	1,2-Dichloroethene (tot)	AIB1A				15853122	60.0000	55.4
15	chloroform	AIB1A	12.483	12.483	(0.972)	9989573	30.0000	27.3
* 16	Bromochloromethane	AIB1A	12.846	12.846	(1.000)	6751116	30.0000	
17	1,1,1-trichloroethane	AIB1A	13.363	13.363	(1.040)	8412912	30.0000	26.6
18	carbon tetrachloride	AIB1A	13.943	13.943	(1.085)	10227357	30.0000	28.0

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
	19 1,2-dichloroethane	AIB1A	14.216	14.216	(1.107)	7808926	30.0000	27.9
	20 Benzene	FID2B	14.280	14.280	(0.971)	1665105	30.0000	28.3
*	21 Fluorobenzene	FID2B	14.713	14.713	(1.000)	1236982	30.0000	
	22 trichloroethene	AIB1A	15.660	15.660	(1.219)	9236475	30.0000	27.5
	23 1,2-dichloropropane	AIB1A	16.076	16.076	(1.251)	7369063	30.0000	28.8
	24 bromodichloromethane	AIB1A	16.680	16.680	(1.298)	6905715	30.0000	28.6
	25 cis-1,3-dichloropropene	AIB1A	18.183	18.183	(1.415)	6741737	30.0000	27.5
	26 Toluene	FID2B	19.283	19.283	(1.311)	1556833	30.0000	28.3
	27 trans-1,3-dichloropropene	AIB1A	19.853	19.853	(1.545)	6112792	30.0000	28.6
	28 1,1,2-trichlorethane	AIB1A	20.476	20.476	(1.594)	7623049	30.0000	28.9
	29 tetrachloroethene	AIB1A	21.876	21.876	(1.703)	10106857	30.0000	27.9
	30 dibromochloromethane	AIB1A	22.720	22.720	(1.769)	5170227	30.0000	30.2
	31 chlorobenzene	AIB1A	25.220	25.220	(1.963)	3698030	30.0000	28.9
	32 Ethylbenzene	FID2B	25.400	25.400	(1.726)	1406414	30.0000	28.2
	33 m,p-xylene	FID2B	25.690	25.690	(1.746)	3148941	60.0000	57.1
	35 o-xylene	FID2B	27.243	27.243	(1.852)	1316341	30.0000	28.5
	36 bromoform	AIB1A	28.463	28.463	(2.216)	3268963	30.0000	31.5
M	34 Xylene (tot)	FID2B				4465282	90.0000	85.7
$	37 1,4-dichlorobutane	AIB1A	28.763	28.763	(2.239)	4962784	30.0000	29.4
	38 1,1,2,2-tetrachloroethane	AIB1A	29.006	29.006	(2.258)	5379650	30.0000	29.7
$	39 4-bromofluorobenzene	FID2B	29.246	29.246	(1.988)	1459241	30.0000	29.1
	40 1,3-dichlorobenzene	AIB1A	31.503	31.503	(2.452)	4578219	30.0000	29.0(H)
	41 1,4-dichlorobenzene	AIB1A	31.670	31.670	(2.465)	5002820	30.0000	29.4
	42 1,2-dichlorobenzene	AIB1A	32.253	32.253	(2.511)	4583374	30.0000	30.2

QC Flag Legend

H - Operator selected an alternate compound hit.

PEL Laboratories, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

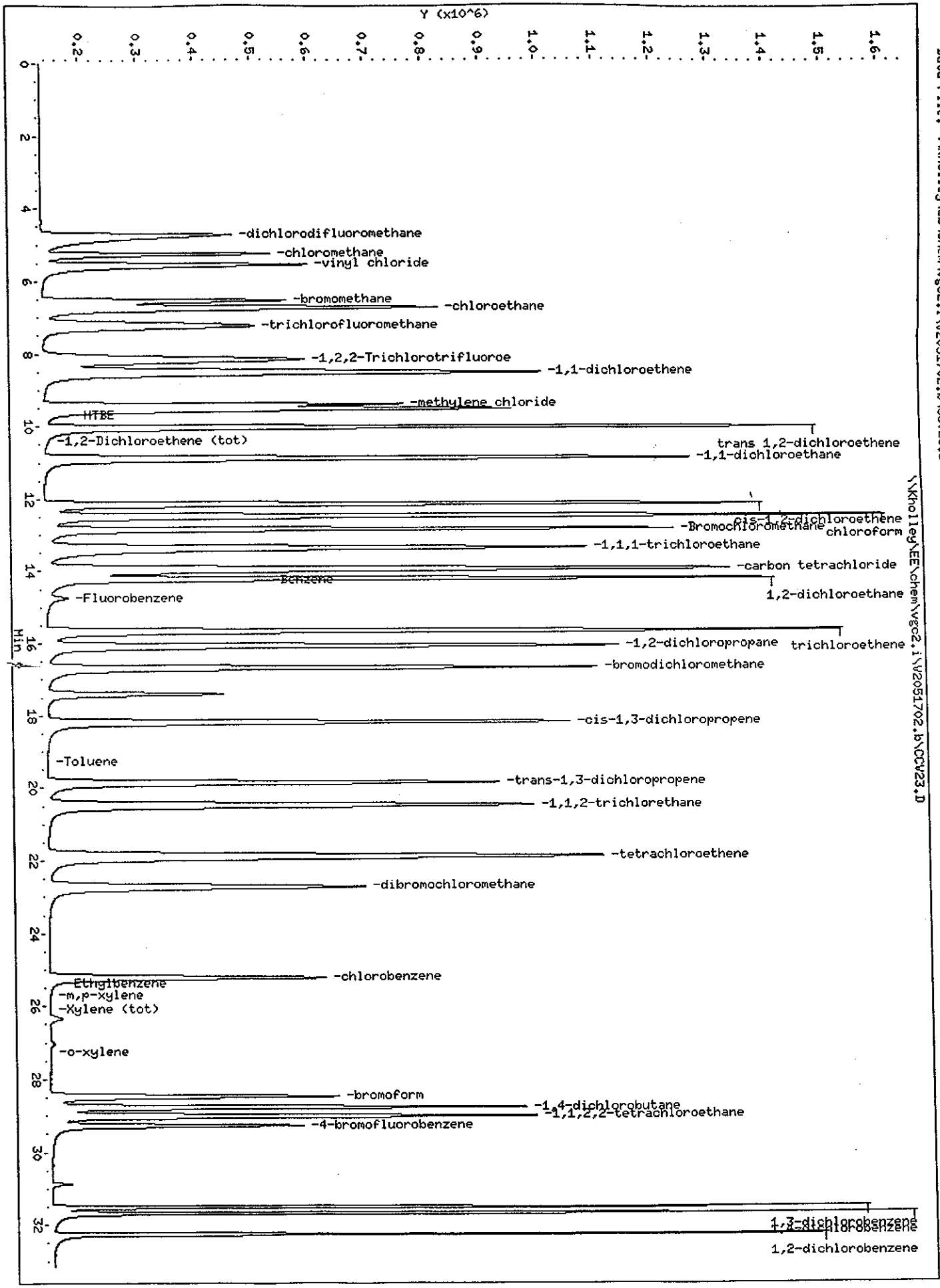
Instrument ID: vgc2.i
Lab File ID: CCV23.D
Lab Smp Id: 0517CCV23
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\Kholley\EE\chem\vgc2.i\V2051702.b\8021.m
Misc Info:

Calibration Date: 17-MAY-2002
Calibration Time: 21:18
Client Smp ID: 0517CCV23
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	6476764	3238382	12953528	6751116	4.24
21 Fluorobenzene	1140461	570231	2280922	1236982	8.46

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	12.82	12.32	13.32	12.85	0.23
21 Fluorobenzene	14.68	14.18	15.18	14.71	0.20

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.


Y (x10^6)
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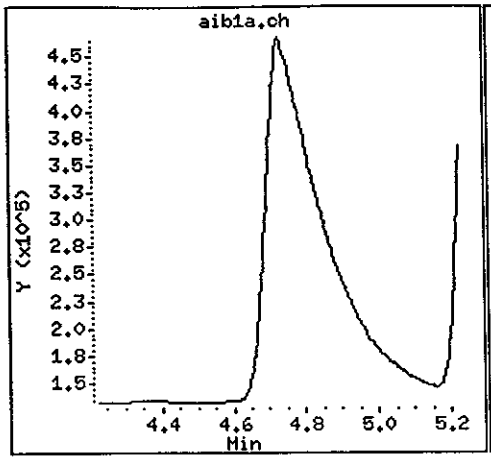
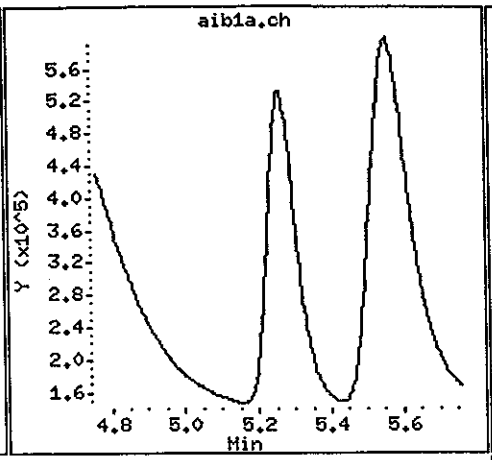
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4
1.5
1.6
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
32
Min
-dichlorodifluoromethane
-chloromethane
-vinyl chloride
-bromomethane
-chloroethane
-trichlorofluoromethane
-1,2,2-Trichlorotrifluoroe
-1,1-dichloroethene
-methylene chloride
MTBE
-1,2-Dichloroethene (tot)
trans 1,2-dichloroethene
-1,1-dichloroethane
cis-1,2-dichloroethene
-Bromochloromethane
chloroform
-1,1,1-trichloroethane
-carbon tetrachloride
Benzene
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
-1,4-dichlorobutane
-1,1,2,2-tetrachloroethane
-4-bromofluorobenzene
1,3-dichlorobenzene
1,4-dichlorobenzene
1,2-dichlorobenzene
Data File: \\Kholley\EE\chem\vgc2.i\V2051702.b\CCV23.D
\\Kholley\EE\chem\vgc2.i\V2051702.b\CCV23.D

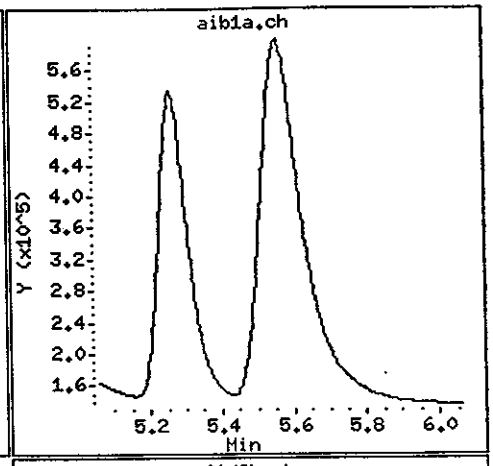
1 dichlorodifluoromethane

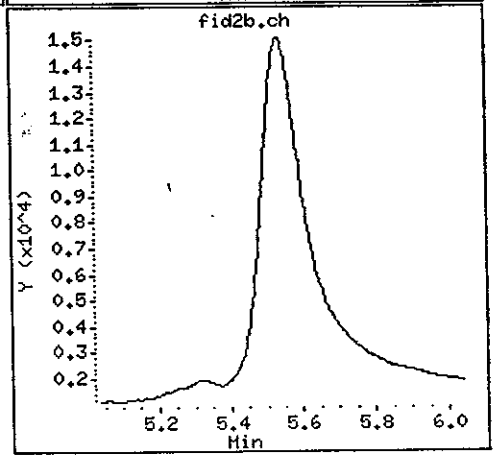


2 chloromethane

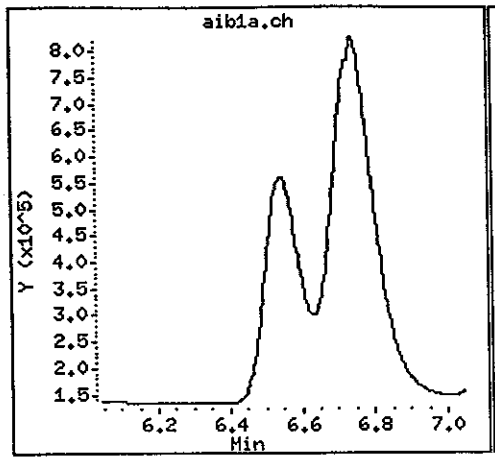


3 vinyl chloride

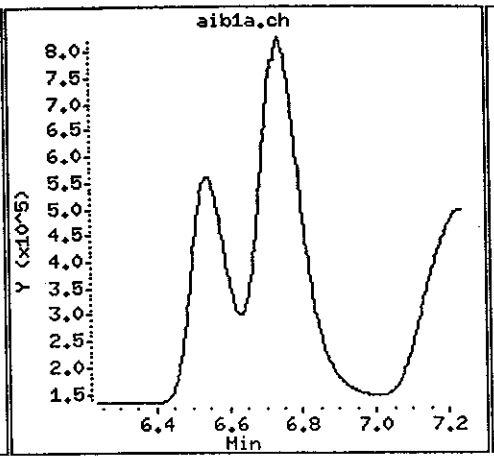




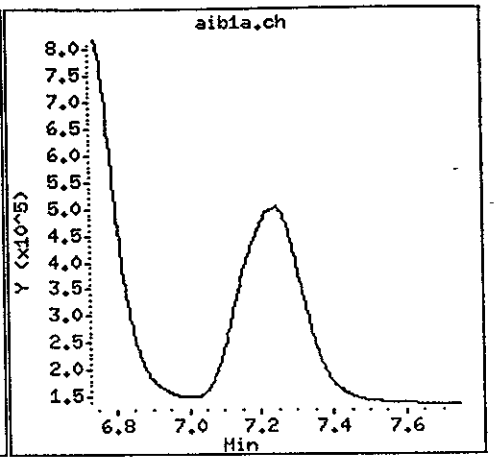
4 bromomethane



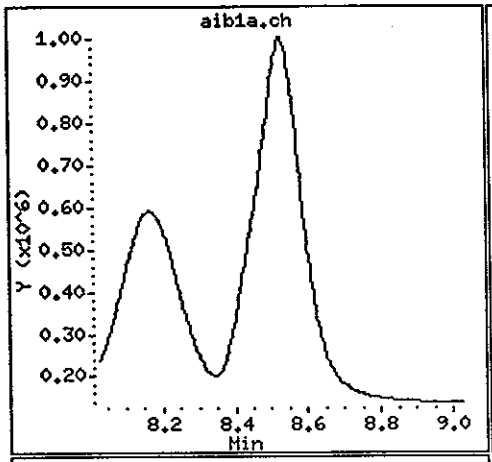
5 chloroethane



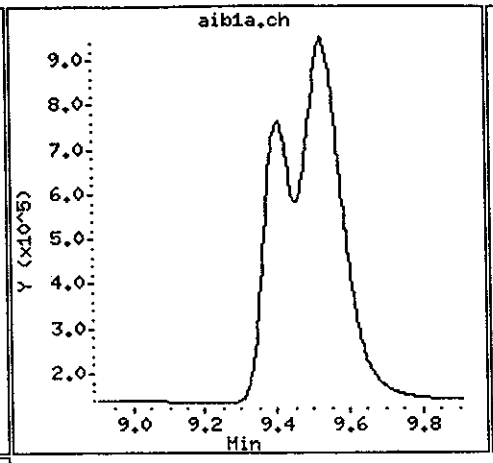
6 trichlorofluoromethane



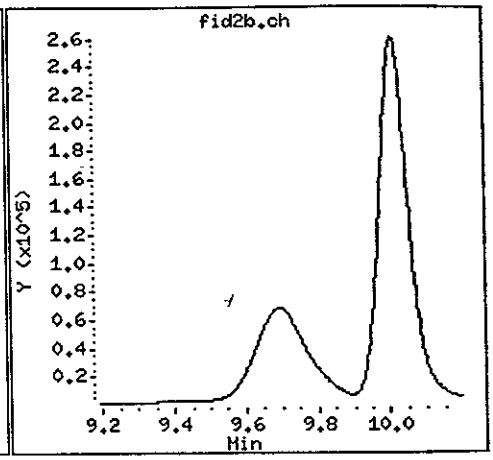
8 1,1-dichloroethene

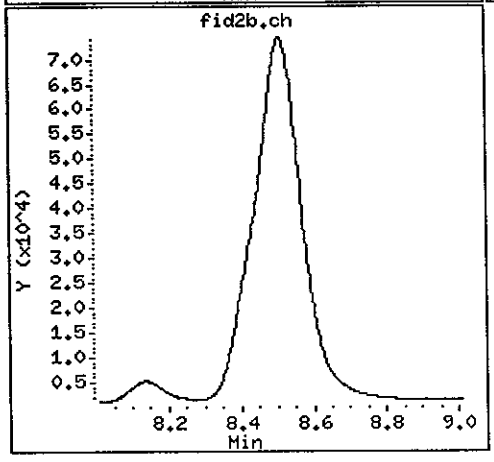


9 methylene chloride

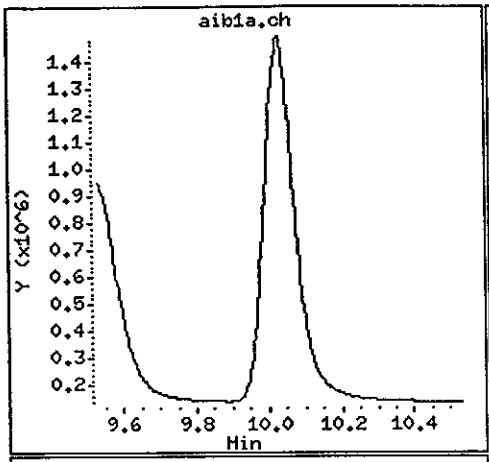


10 MTBE

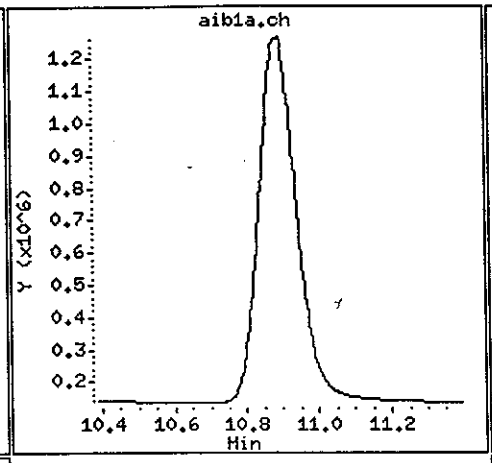




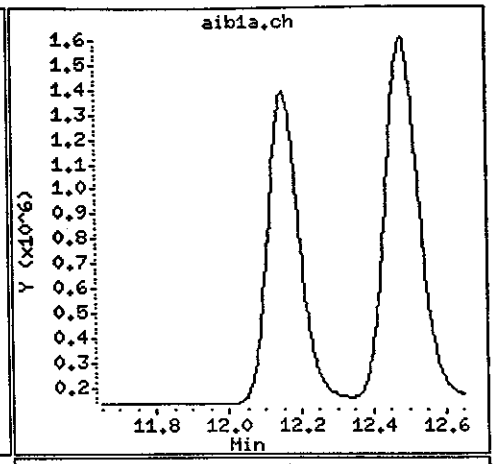
11 trans 1,2-dichloroethene

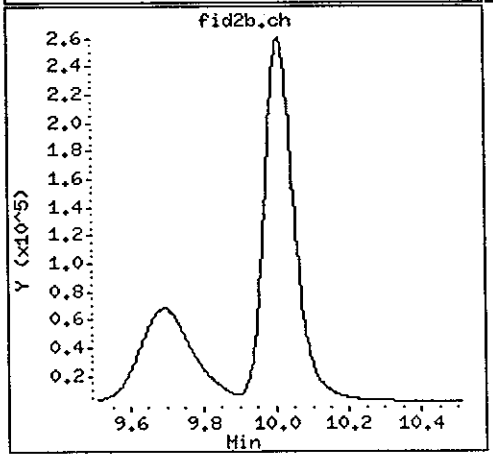


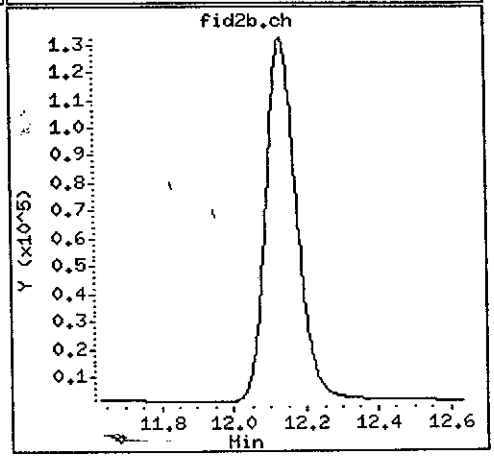
13 1,1-dichloroethane



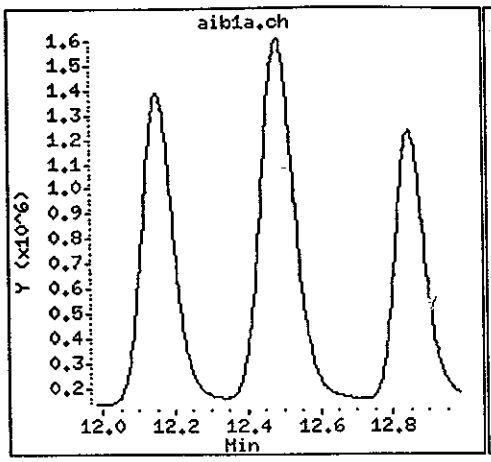
14 cis-1,2-dichloroethene



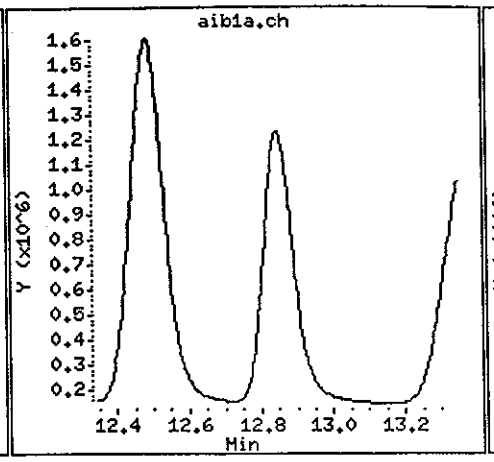




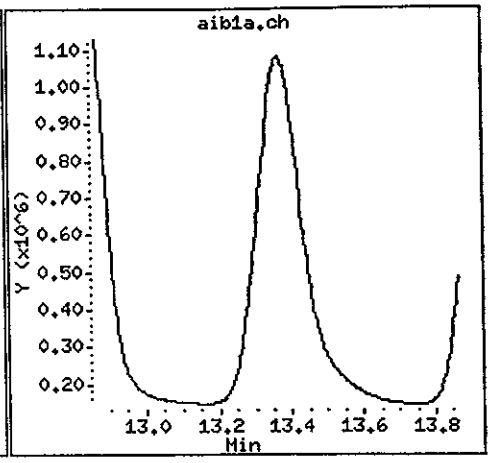
15 chloroform



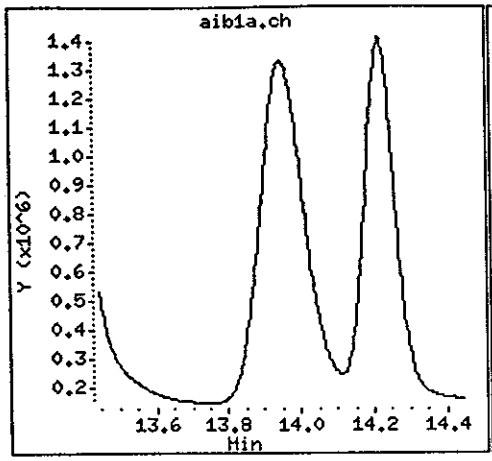
16 Bromochloromethane



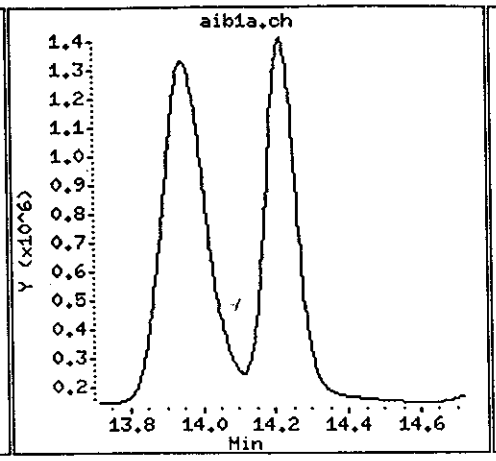
17 1,1,1-trichloroethane



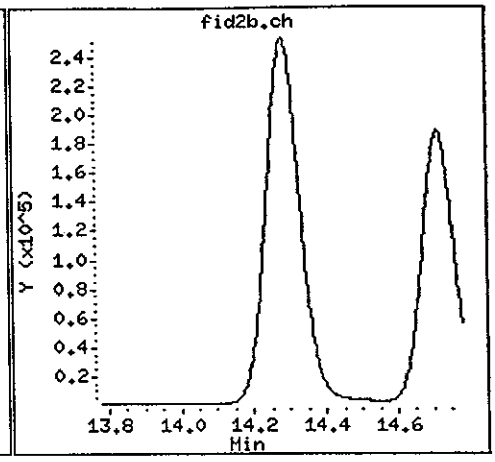
18 carbon tetrachloride



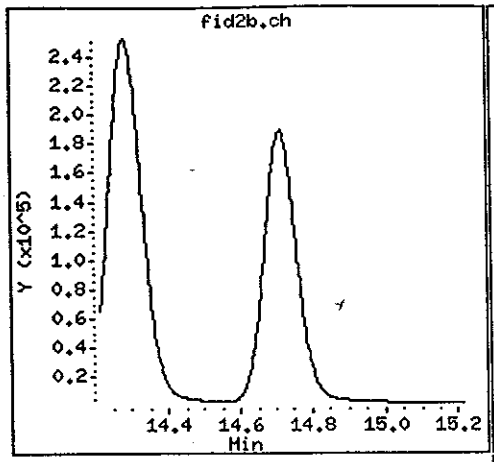
19 1,2-dichloroethane



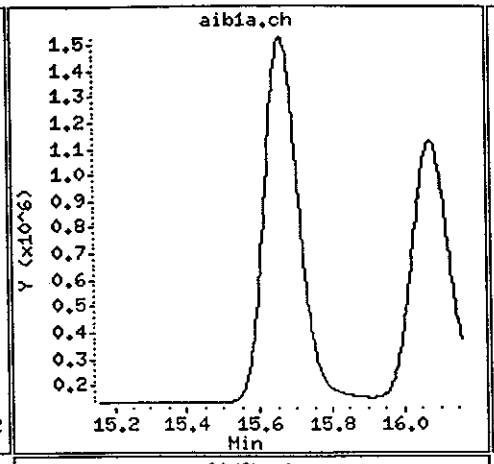
20 Benzene



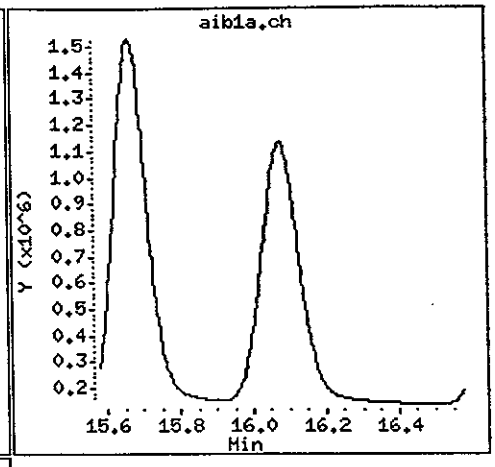
M 21 Fluorobenzene

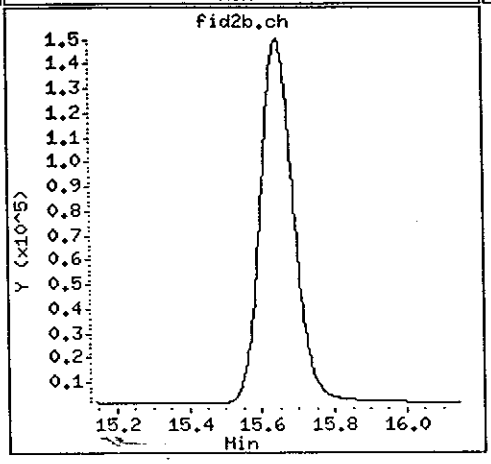


22 trichloroethene

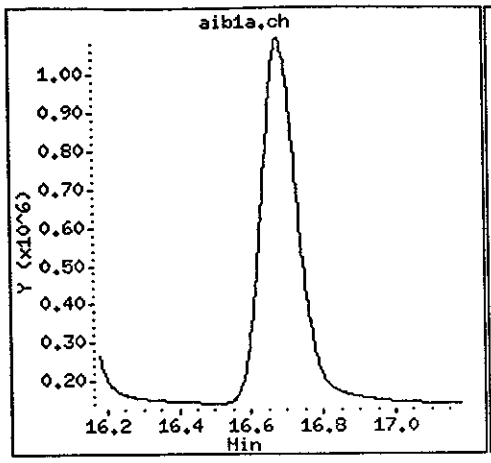


23 1,2-dichloropropane

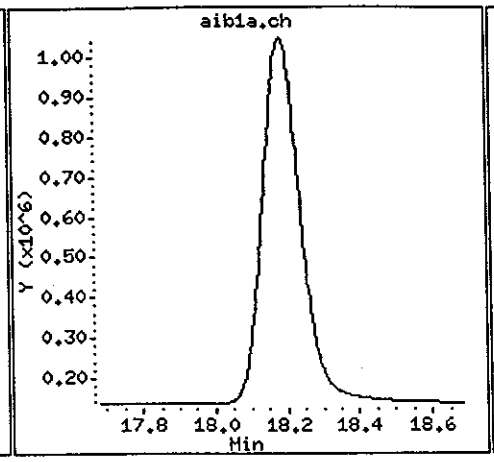




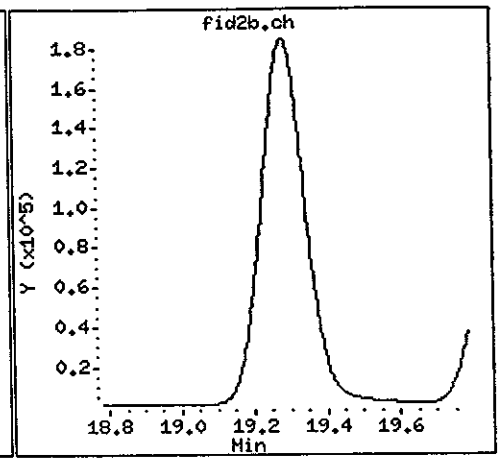
24 bromodichloromethane



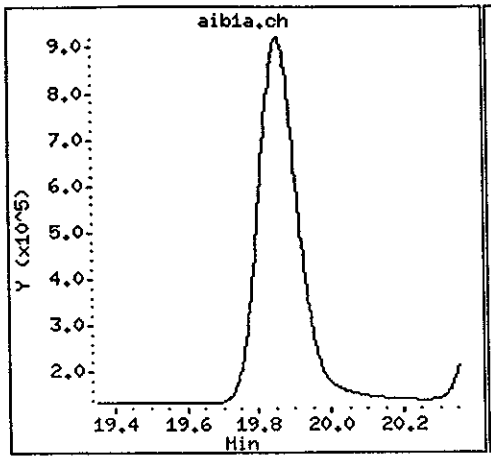
25 cis-1,3-dichloropropene



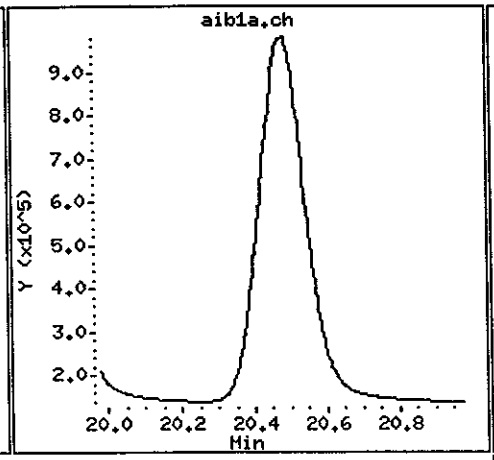
26 Toluene



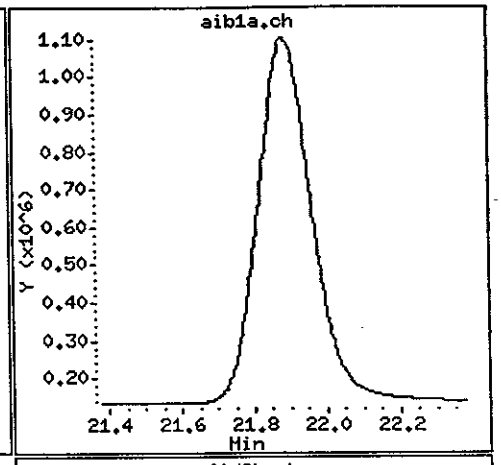
27 trans-1,3-dichloropropen

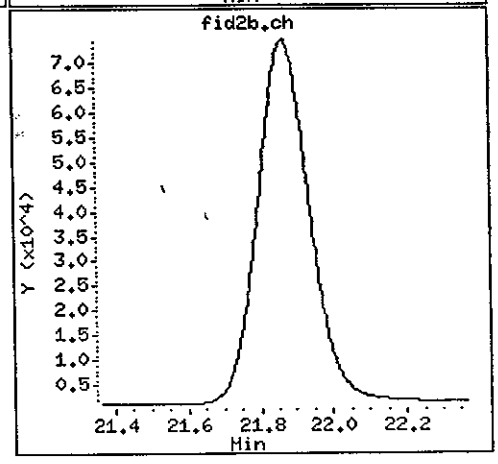


28 1,1,2-trichlorethane

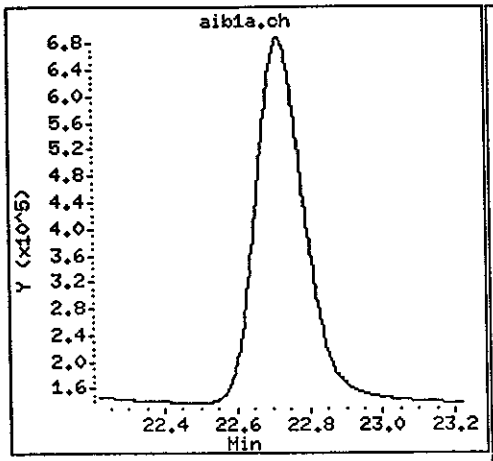


29 tetrachloroethene

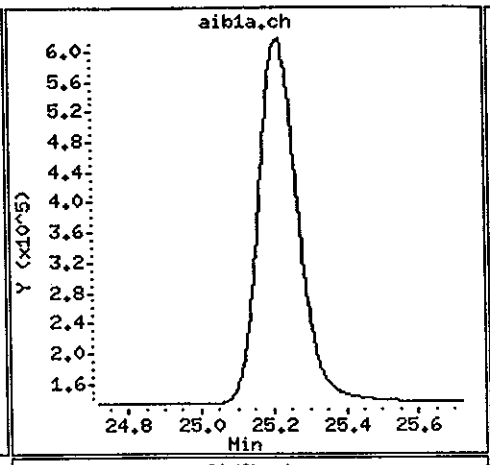




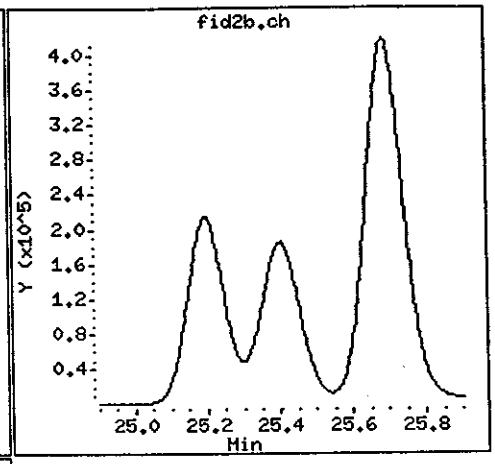
30 dibromochloromethane

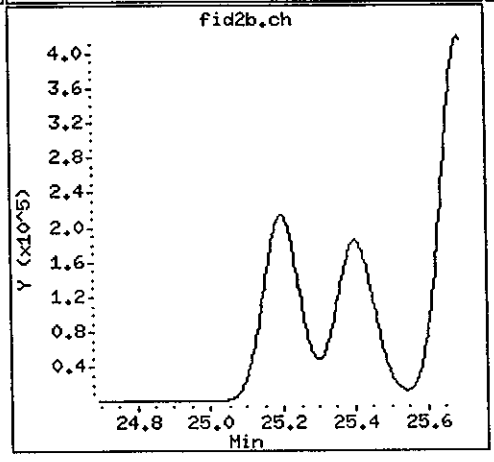


31 chlorobenzene

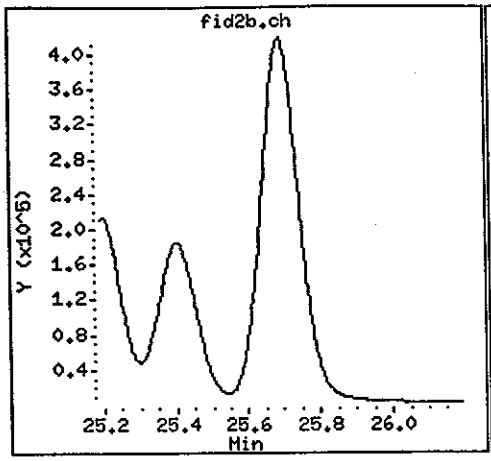


32 Ethylbenzene

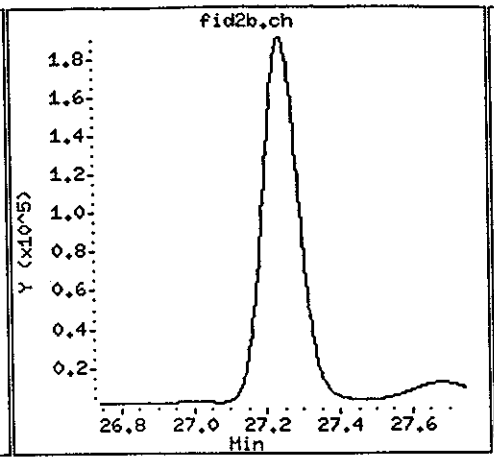




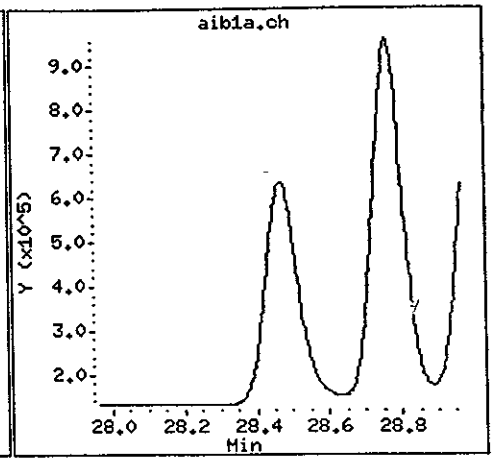
33 m,p-xylene



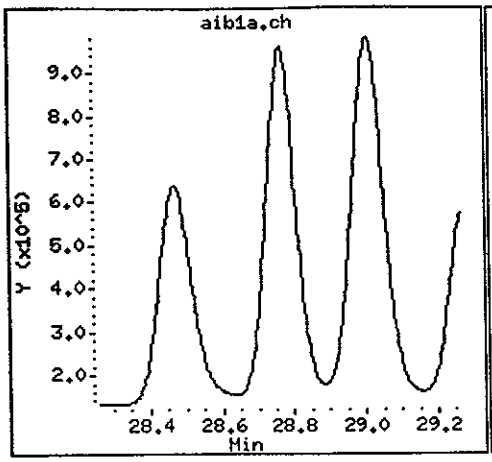
35 o-xylene



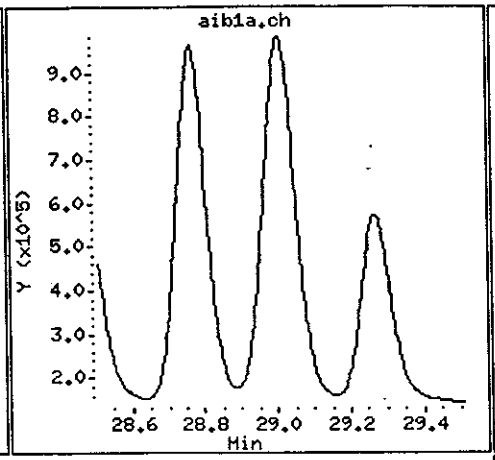
36 bromoform



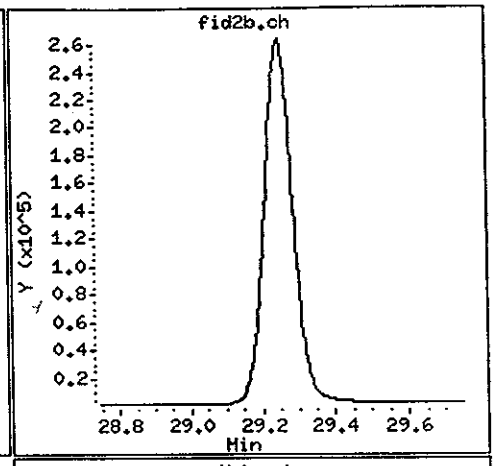
$ 37 1,4-dichlorobutane

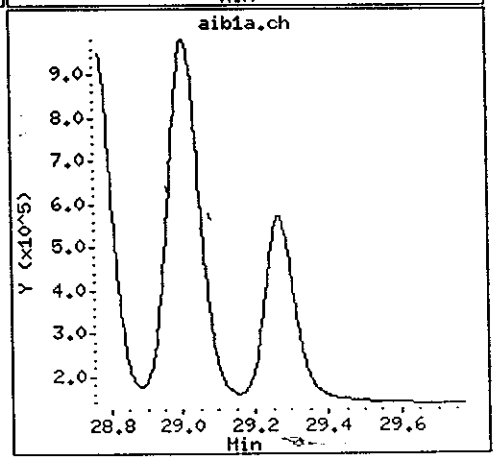


38 1,1,2,2-tetrachloroethan



$ 39 4-bromofluorobenzene

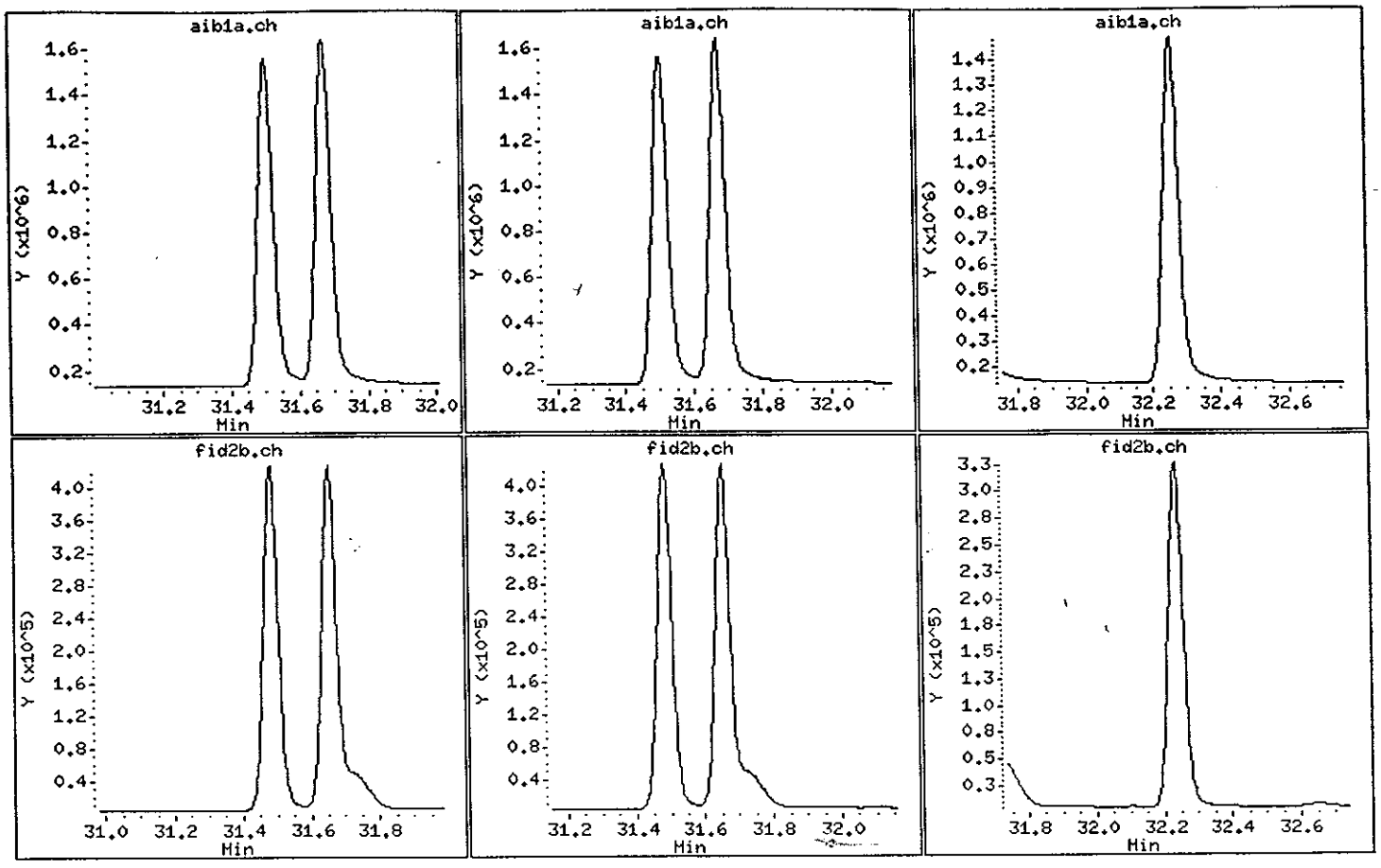




40 1,3-dichlorobenzene

41 1,4-dichlorobenzene

42 1,2-dichlorobenzene



PEL Laboratories, Inc.

Data file : \\Kholley\EE\chem\vgc2.i\V2051702.b\29-6.D
Lab Smp Id: 220402906 Client Smp ID: 062CEF439N
Inj Date : 17-MAY-2002 17:57
Operator : Inst ID: vgc2.i
Smp Info : 220402906
Misc Info :
Comment :
Method : \\Kholley\EE\chem\vgc2.i\V2051702.b\8021.m
Meth Date : 23-May-2002 09:32 lpelo Quant Type: ISTD
Cal Date : 16-MAY-2002 17:50 Cal File: 100PPB.D
Als bottle: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8021rl.sub
Target Version: 4.04
Processing Host: FILES

Concentration Formula: Amt * DF * Vf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
*	16 Bromochloromethane	AIB1A	12.836	12.846	(1.000)	6205876	30.0000	
*	21 Fluorobenzene	FID2B	14.700	14.713	(1.000)	1123164	30.0000	
	26 Toluene	FID2B	19.263	19.283	(1.310)	19978	0.40017	0.40(a)
	32 Ethylbenzene	FID2B	25.380	25.400	(1.727)	812473	17.9545	18.0
	33 m,p-xylene	FID2B	25.676	25.690	(1.747)	2223449	44.4352	44.4
	35 o-xylene	FID2B	27.220	27.243	(1.852)	1132502	27.0395	27.0
M	34 Xylene (tot)	FID2B				3355951	71.4747	71.5
$	37 1,4-dichlorobutane	AIB1A	28.750	28.763	(2.240)	4891754	31.4877	31.5
$	39 4-bromofluorobenzene	FID2B	29.230	29.246	(1.988)	1484045	32.5579	32.6

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

PEL Laboratories, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vgc2.i
Lab File ID: 29-6.D
Lab Smp Id: 220402906
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\Kholley\EE\chem\vgc2.i\V2051702.b\8021.m
Misc Info:

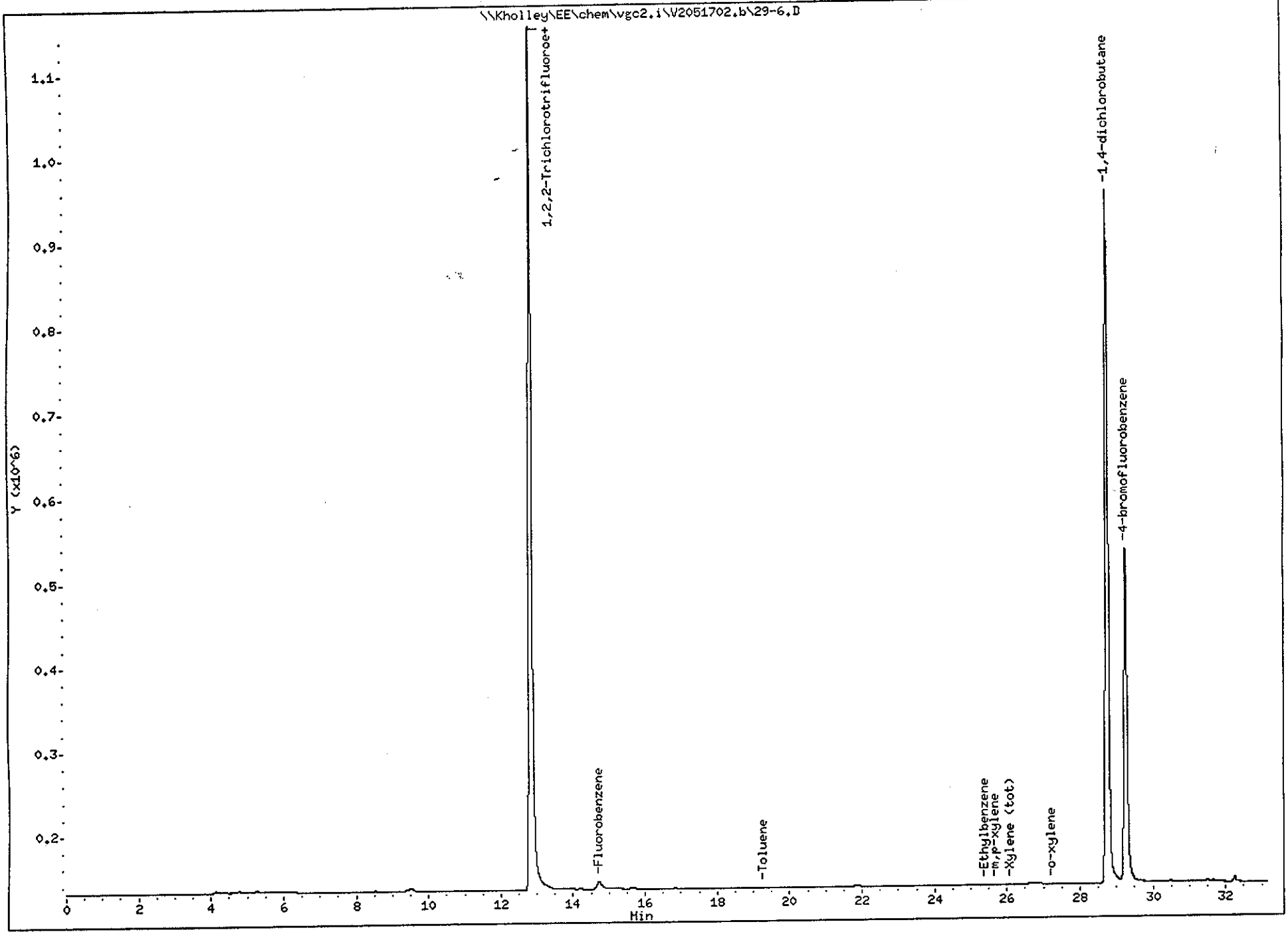
Calibration Date: 17-MAY-2002
Calibration Time: 14:16
Client Smp ID: 062CEF439N
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	6751116	3375558	13502232	6205876	-8.08
21 Fluorobenzene	1236982	618491	2473964	1123164	-9.20

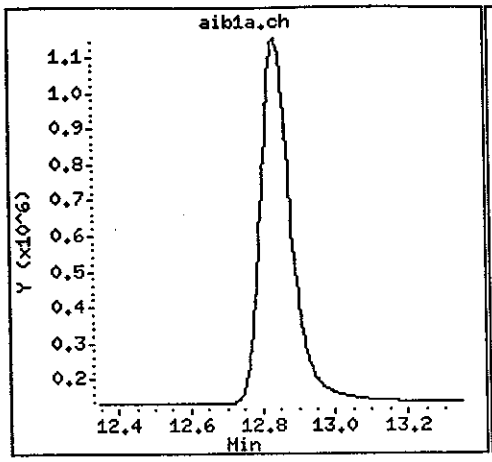
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	12.85	12.35	13.35	12.84	-0.08
21 Fluorobenzene	14.71	14.21	15.21	14.70	-0.09

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

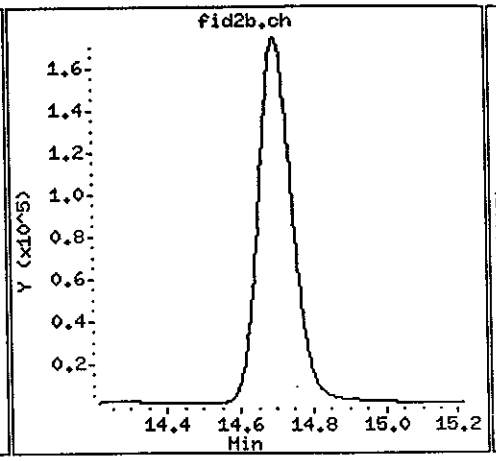
Data File: \\Kholley\EE\chem\vgc2.i\V2051702.b\29-6.D



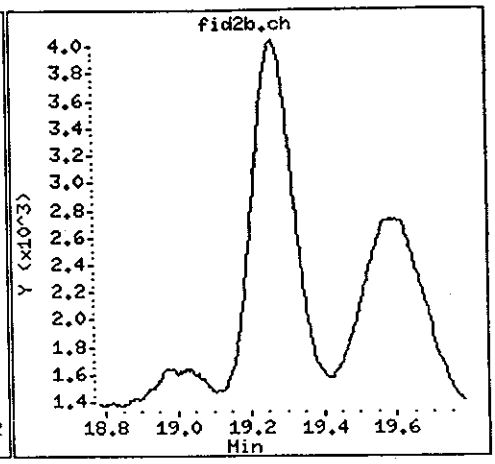
* 16 Bromochloromethane



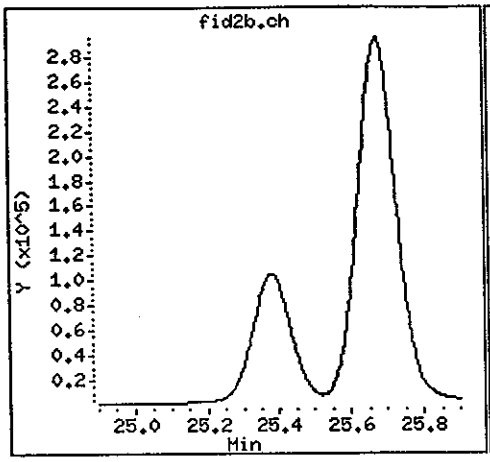
* 21 Fluorobenzene



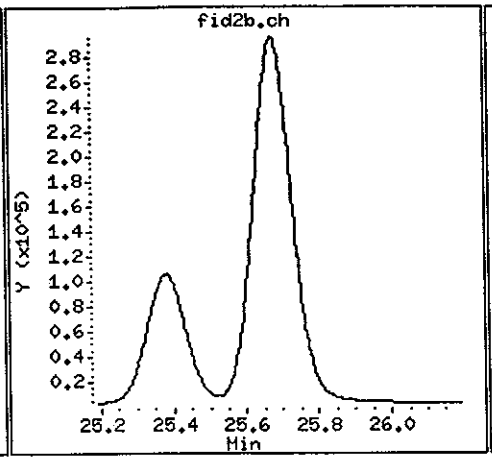
26 Toluene



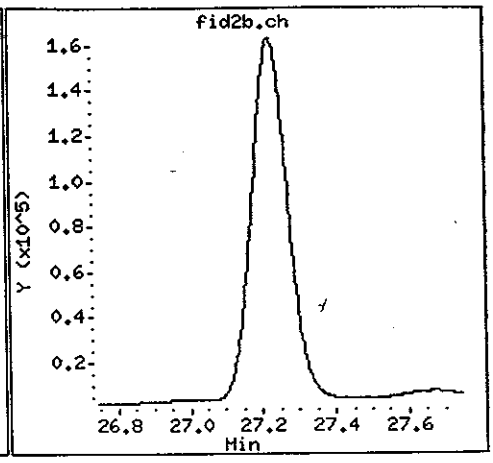
32 Ethylbenzene



33 m,p-xylene



35 o-xylene



PEL Laboratories, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vgc2.i
Lab File ID: CCV23.D
Lab Smp Id: 0517CCV23
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\Kholley\EE\chem\vgc2.i\V2051702.b\8021.m
Misc Info:

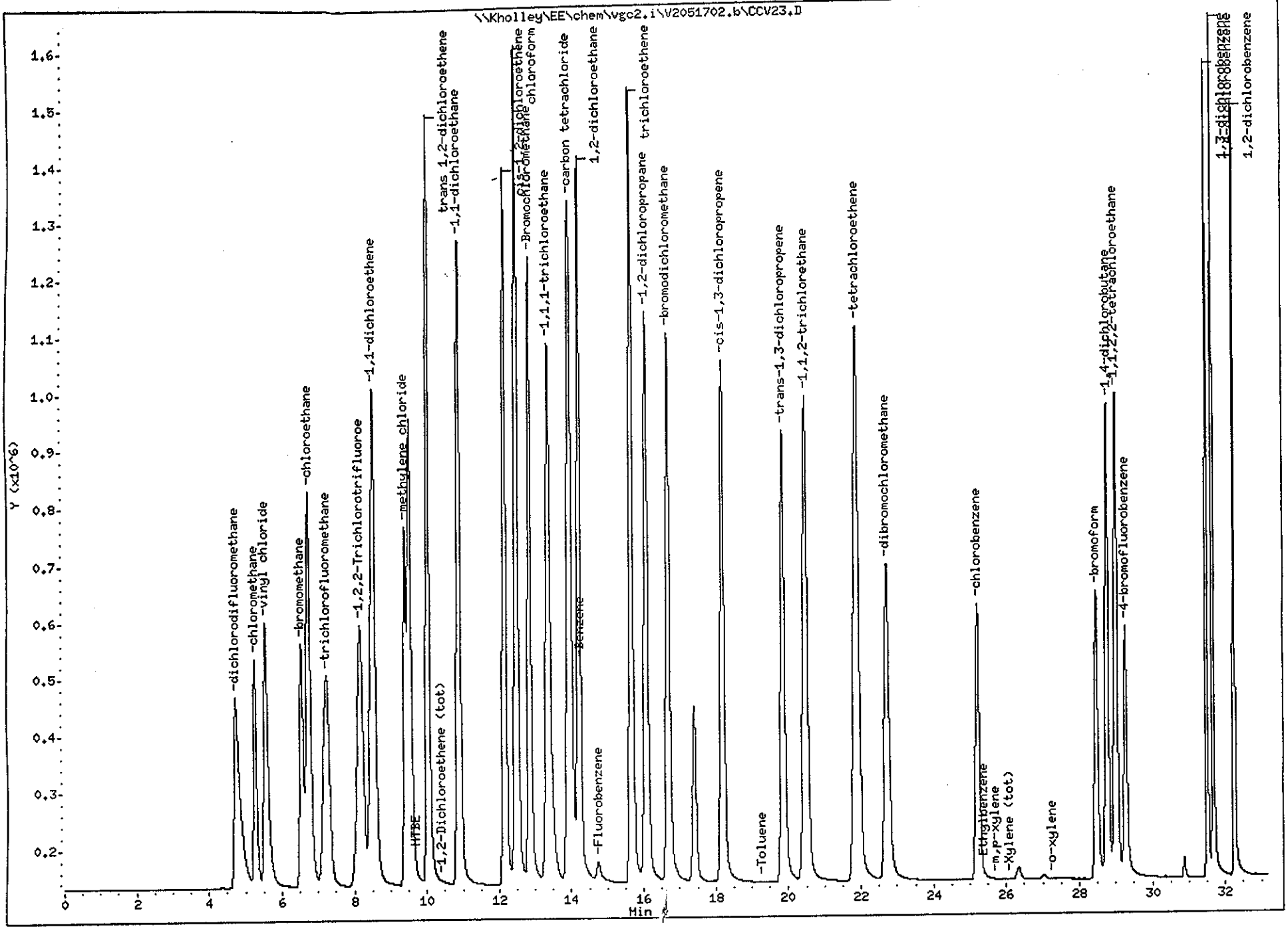
Calibration Date: 17-MAY-2002
Calibration Time: 21:18
Client Smp ID: 0517CCV23
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	6476764	3238382	12953528	6751116	4.24
21 Fluorobenzene	1140461	570231	2280922	1236982	8.46

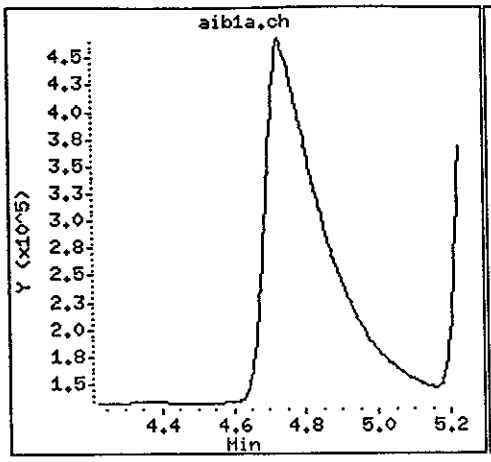
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	12.82	12.32	13.32	12.85	0.23
21 Fluorobenzene	14.68	14.18	15.18	14.71	0.20

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

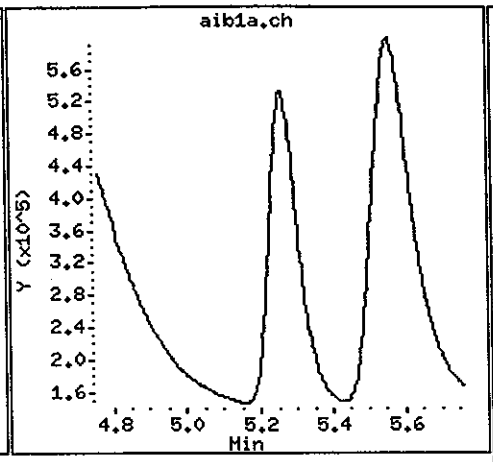
Data File: \\Kholley\EE\chem\vgc2.i\V2051702.b\CCV23.D



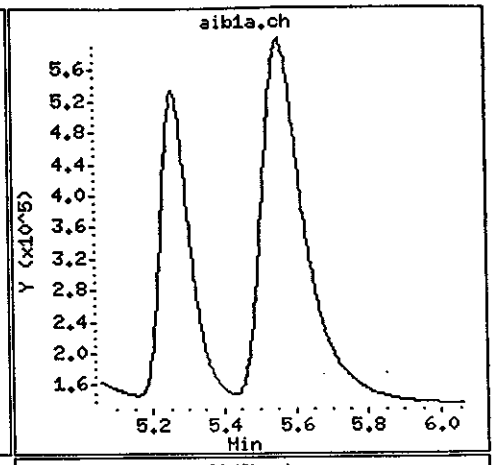
1 dichlorodifluoromethane

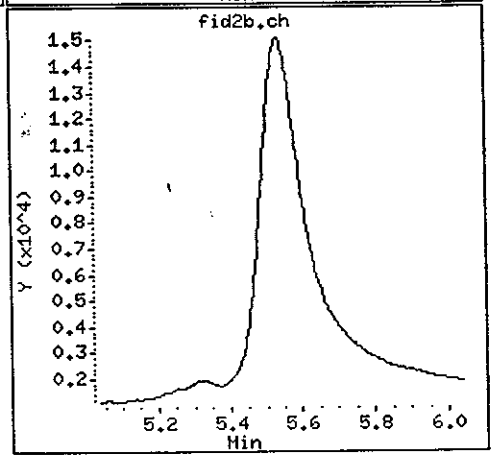


2 chloromethane

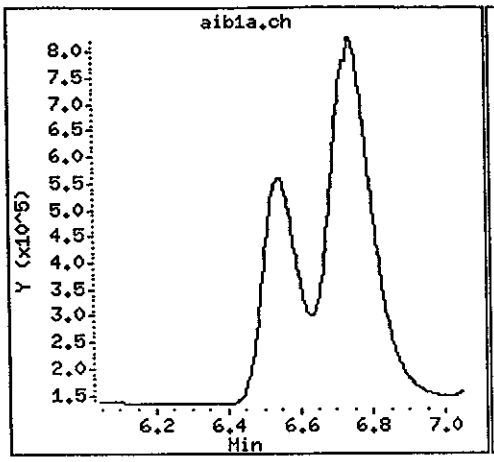


3 vinyl chloride

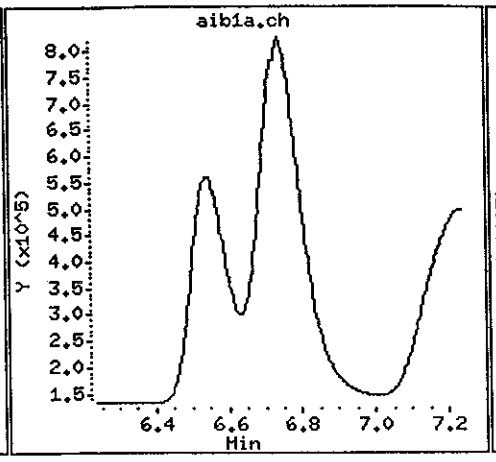




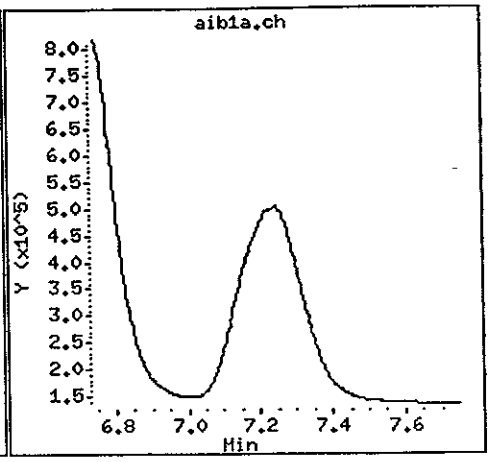
4 bromomethane



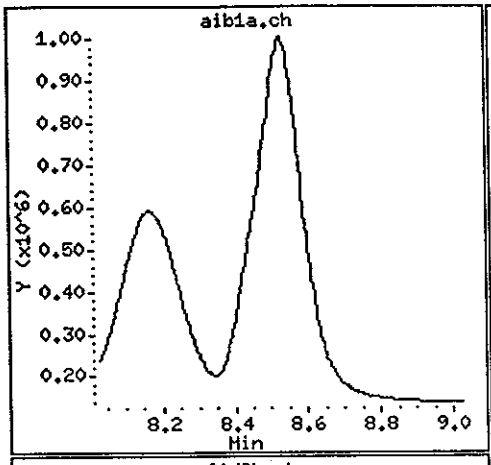
5 chloroethane



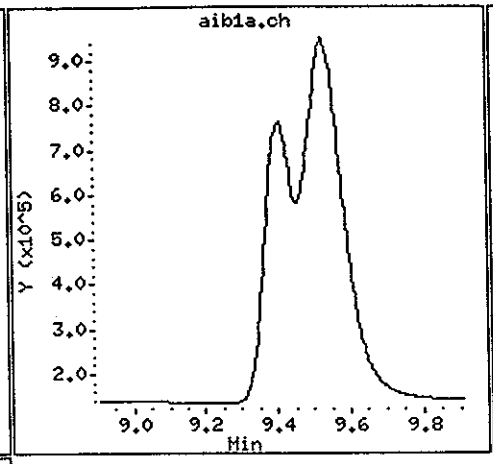
6 trichlorofluoromethane



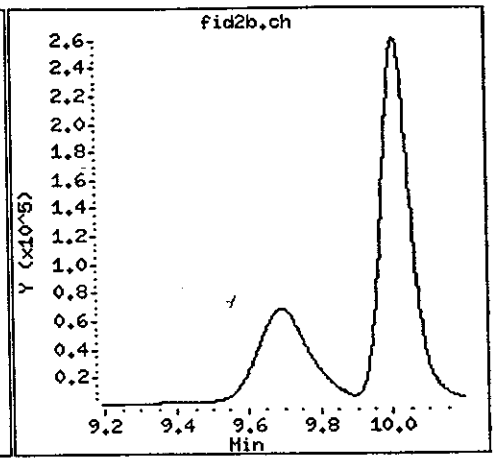
8 1,1-dichloroethene

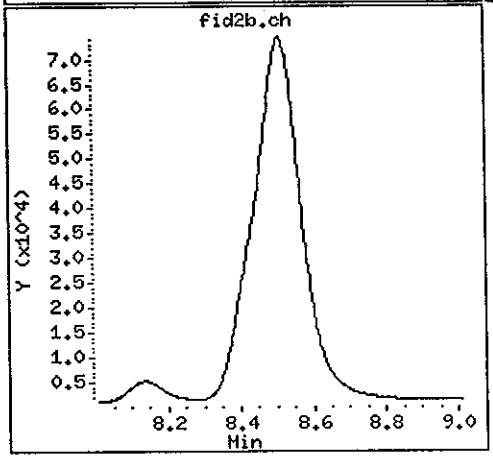


9 methylene chloride

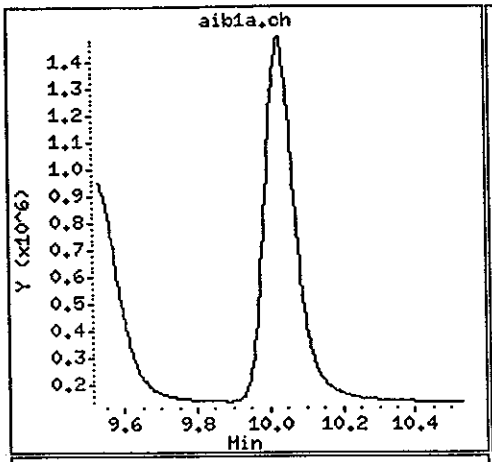


10 MTBE

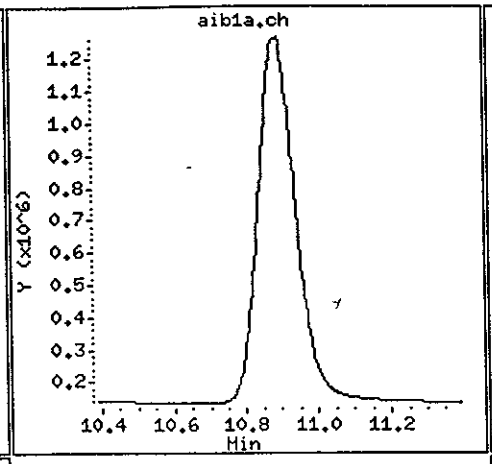




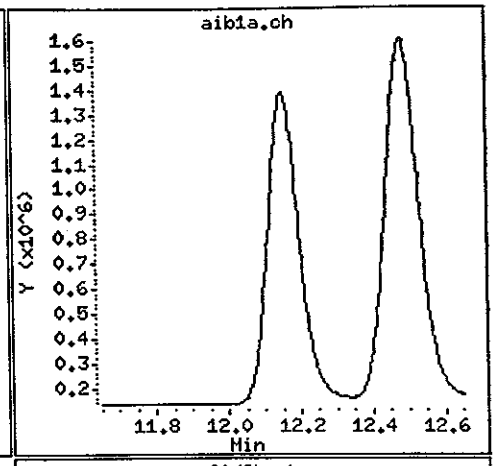
11 trans 1,2-dichloroethene

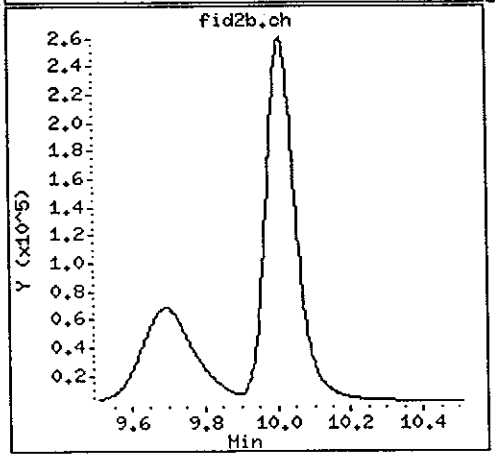


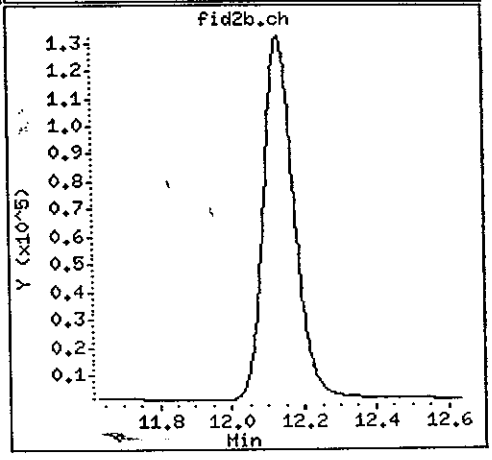
13 1,1-dichloroethane



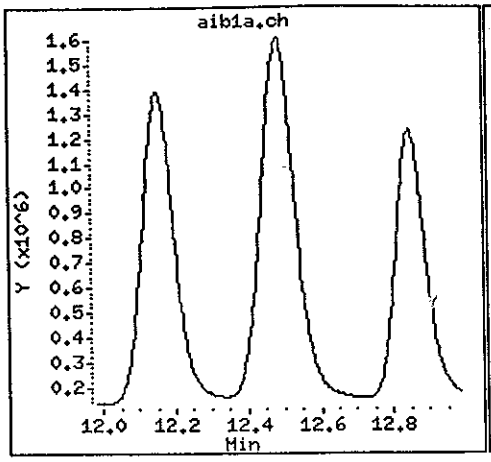
14 cis-1,2-dichloroethene



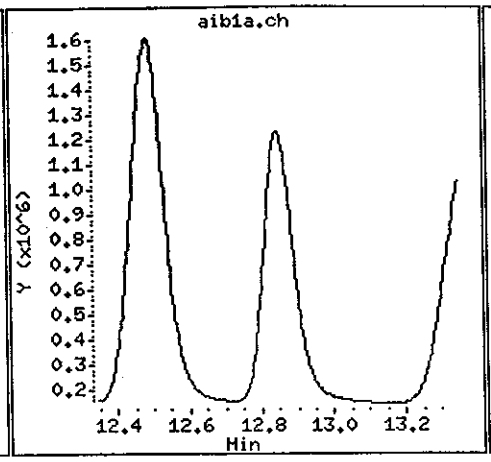




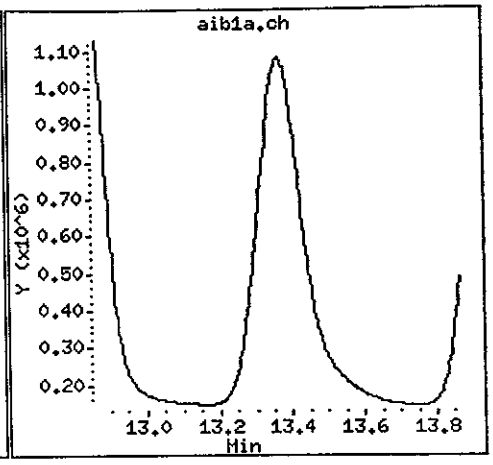
15 chloroform



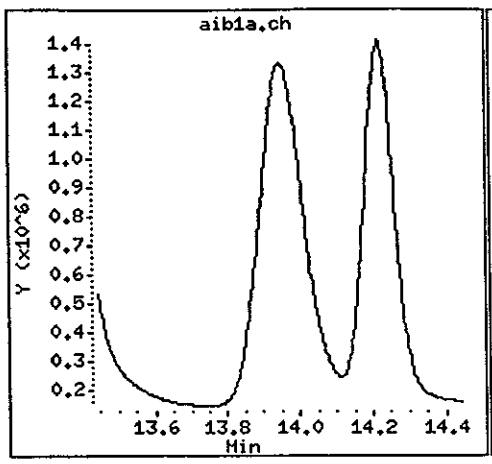
× 16 Bromochloromethane



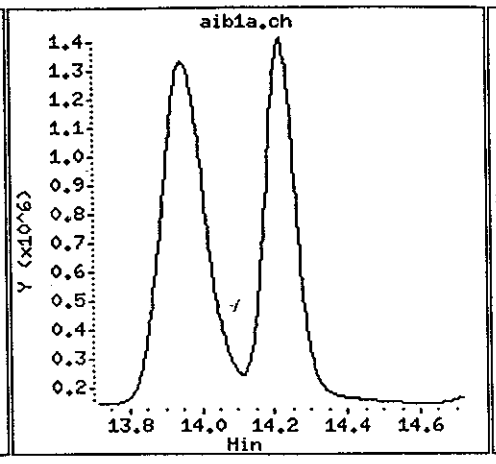
17 1,1,1-trichloroethane



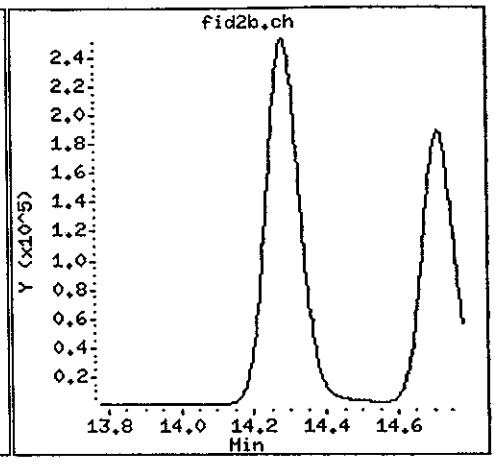
18 carbon tetrachloride



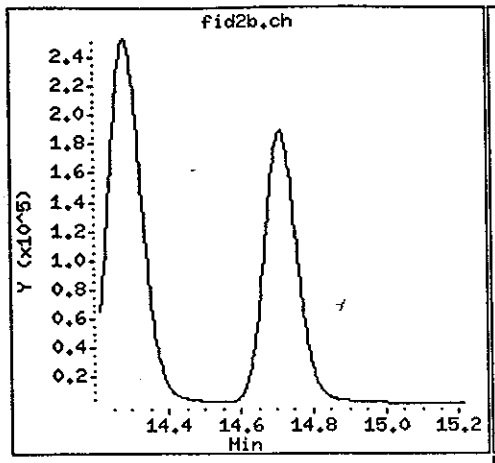
19 1,2-dichloroethane



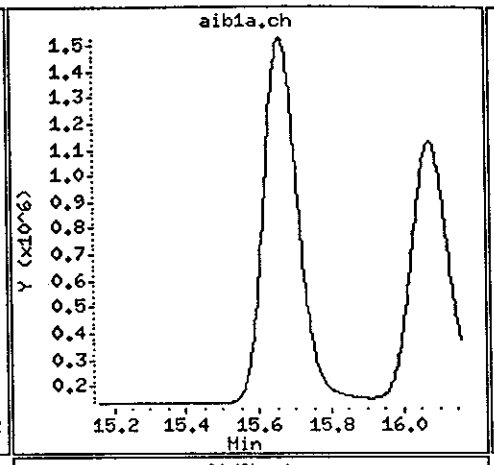
20 Benzene



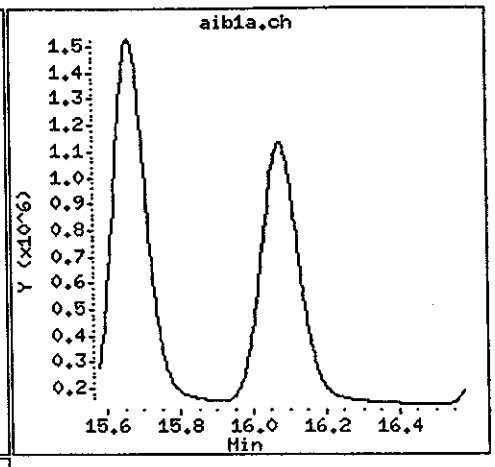
21 Fluorobenzene

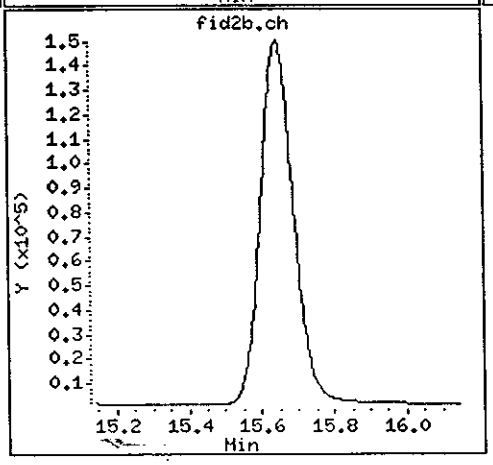


22 trichloroethene

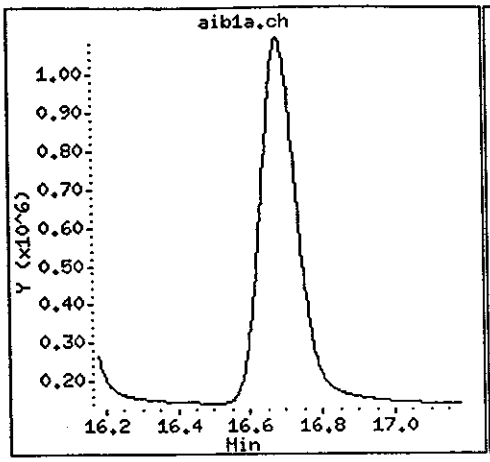


23 1,2-dichloropropane

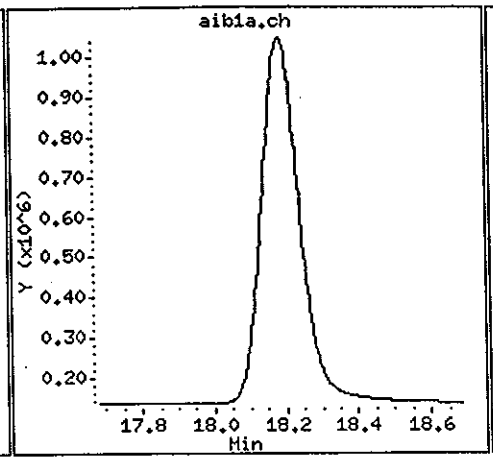




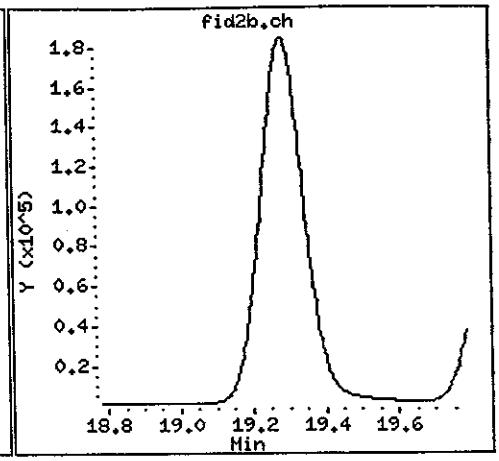
24 bromodichloromethane



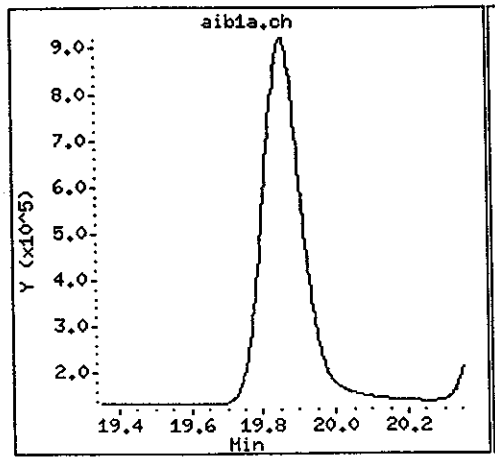
25 cis-1,3-dichloropropene



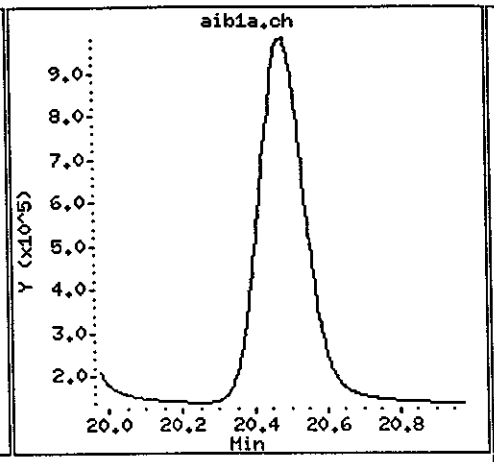
26 Toluene



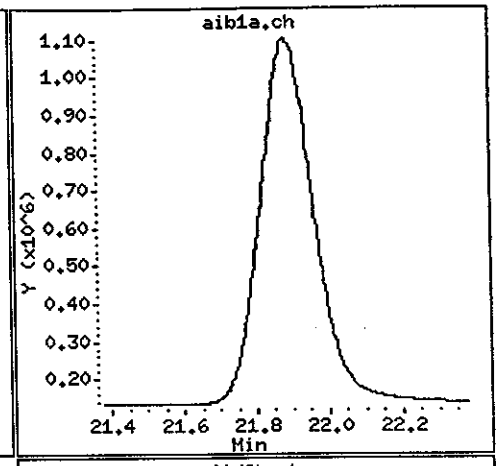
27 trans-1,3-dichloropropen

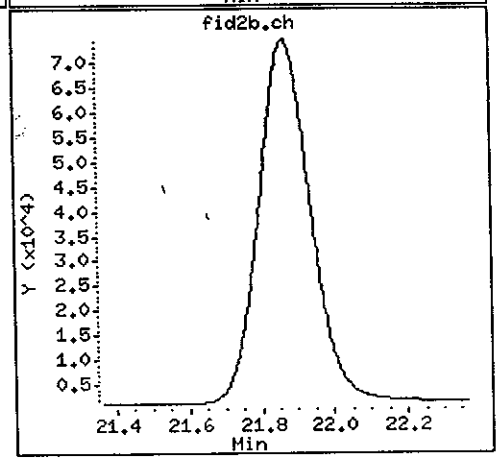


28 1,1,2-trichlorethane

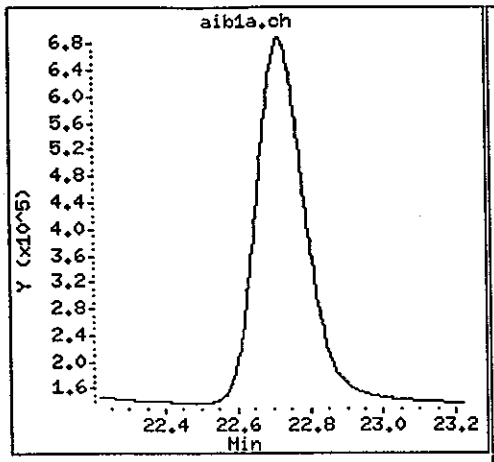


29 tetrachloroethene

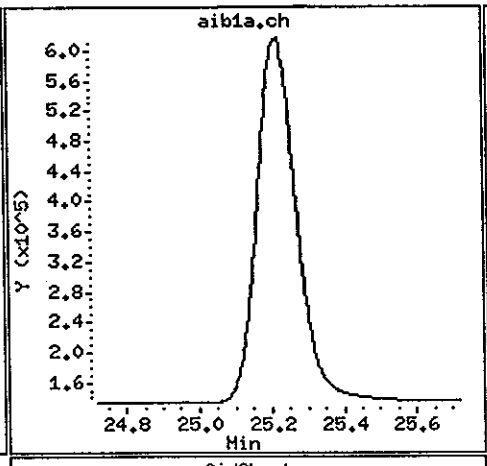




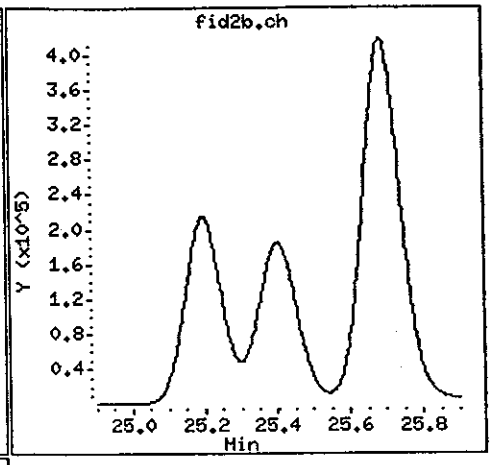
30 dibromochloromethane

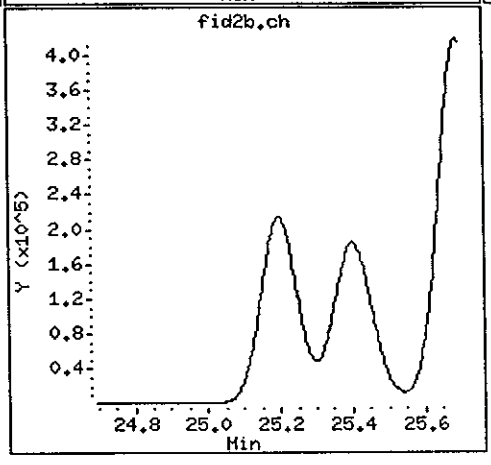


31 chlorobenzene

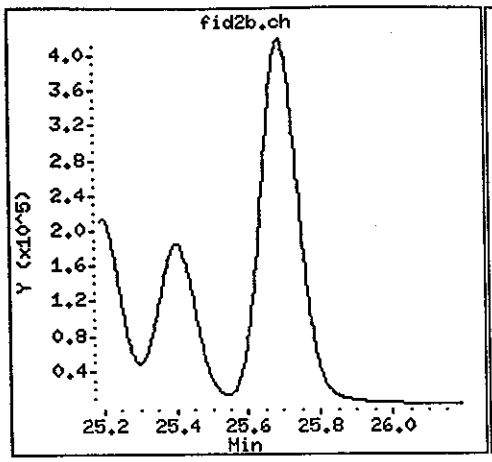


32 Ethylbenzene

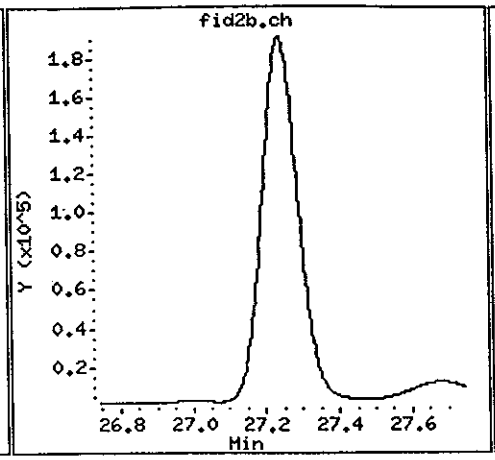




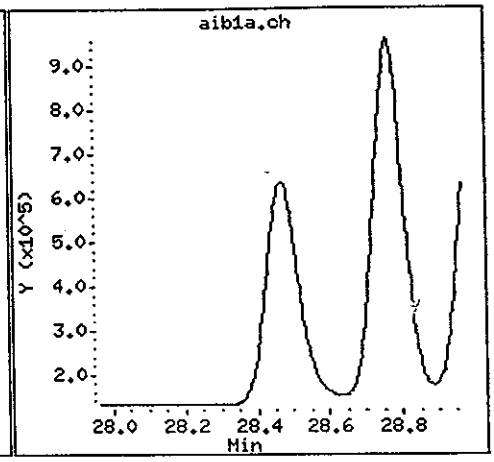
33 m,p-xylene



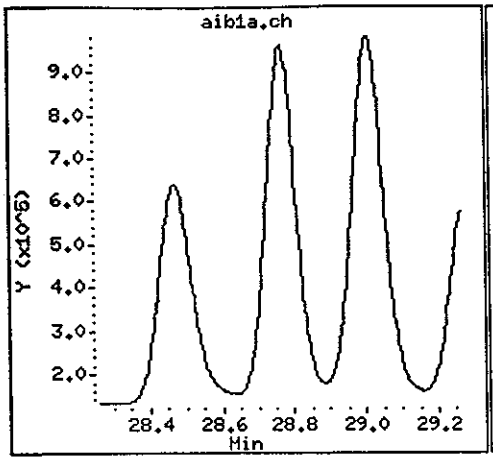
35 o-xylene



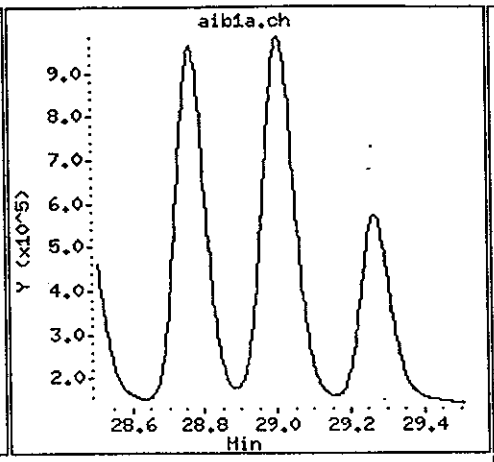
36 bromoform



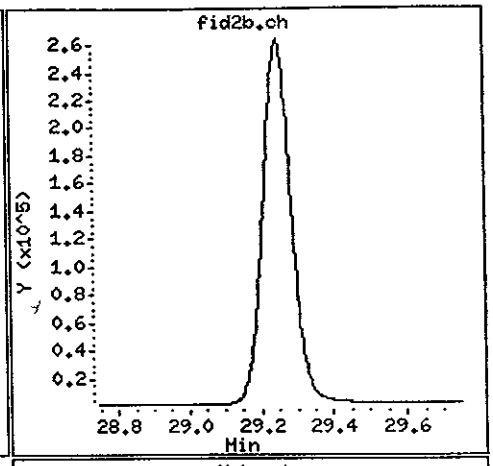
$ 37 1,4-dichlorobutane

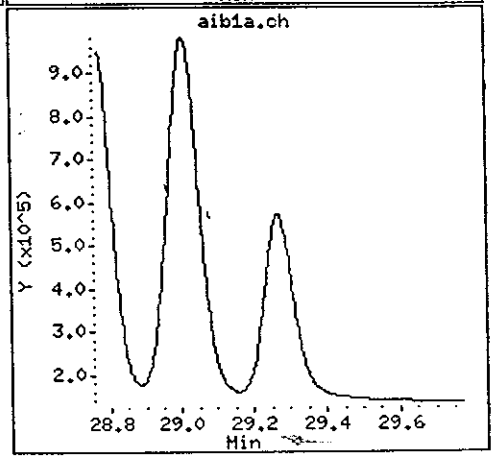


38 1,1,2,2-tetrachloroethan

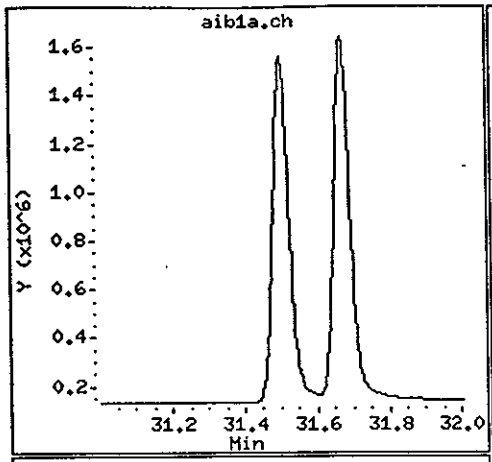


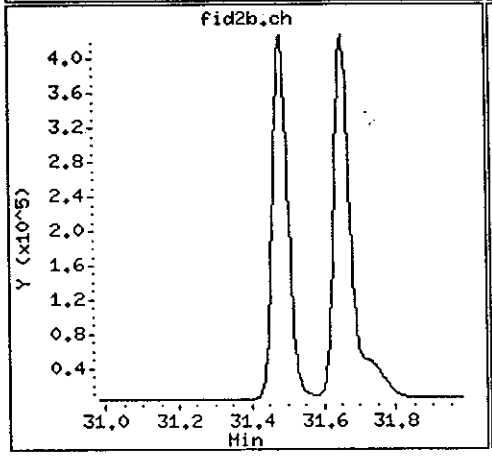
$ 39 4-bromofluorobenzene



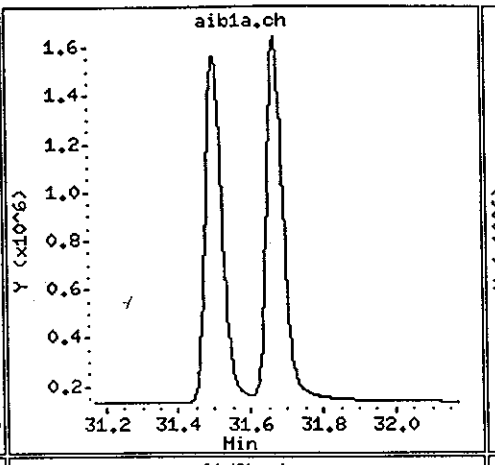


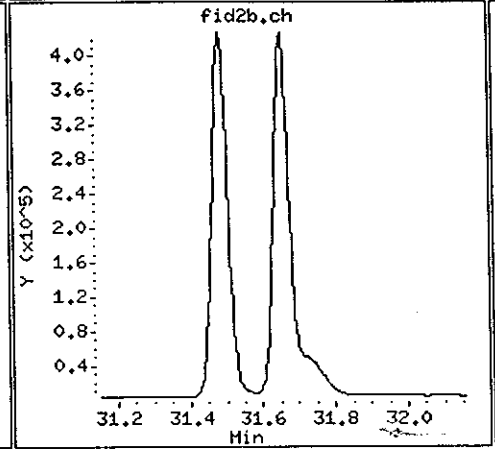
40 1,3-dichlorobenzene



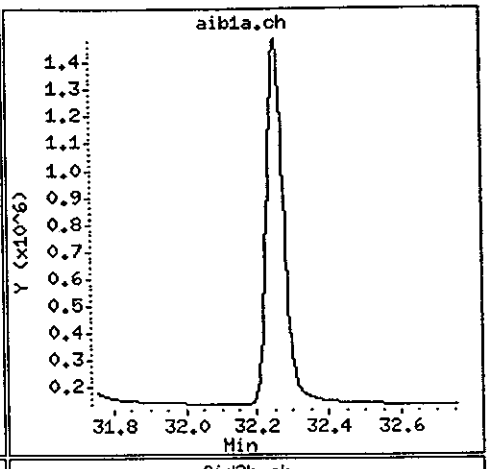


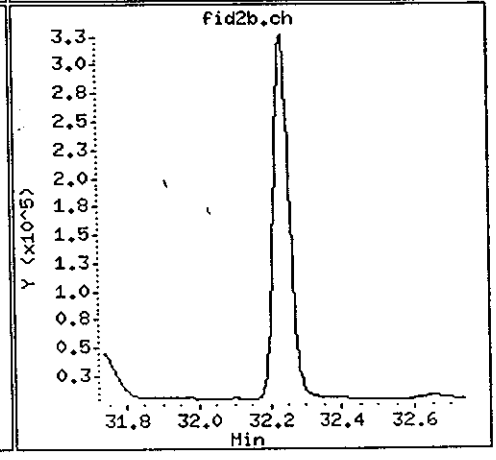
41 1,4-dichlorobenzene





42 1,2-dichlorobenzene





PEL Laboratories, Inc.

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Inj Date : 17-MAY-2002 17:57
Operator : Inst ID: vgc2.i
Smp Info : 220402906
Misc Info :
Comment :
Method : \\Kholley\EE\chem\vgc2.i\V2051702.b\8021.m
Meth Date : 23-May-2002 09:32 lpelo Quant Type: ISTD
Cal Date : 16-MAY-2002 17:50 Cal File: 100PPB.D
Als bottle: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8021rl.sub
Target Version: 4.04
Processing Host: FILES

Concentration Formula: Amt * DF * Vf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
*	16 Bromochloromethane	AIB1A	12.836	12.846	(1.000)	6205876	30.0000	
*	21 Fluorobenzene	FID2B	14.700	14.713	(1.000)	1123164	30.0000	
	26 Toluene	FID2B	19.263	19.283	(1.310)	19978	0.40017	0.40(a)
	32 Ethylbenzene	FID2B	25.380	25.400	(1.727)	812473	17.9545	18.0
	33 m,p-xylene	FID2B	25.676	25.690	(1.747)	2223449	44.4352	44.4
	35 o-xylene	FID2B	27.220	27.243	(1.852)	1132502	27.0395	27.0
M	34 Xylene (tot)	FID2B				3355951	71.4747	71.5
$	37 1,4-dichlorobutane	AIB1A	28.750	28.763	(2.240)	4891754	31.4877	31.5
$	39 4-bromofluorobenzene	FID2B	29.230	29.246	(1.988)	1484045	32.5579	32.6

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

PEL Laboratories, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vgc2.i
Lab File ID: 29-6.D
Lab Smp Id: 220402906
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\Kholley\EE\chem\vgc2.i\V2051702.b\8021.m
Misc Info:

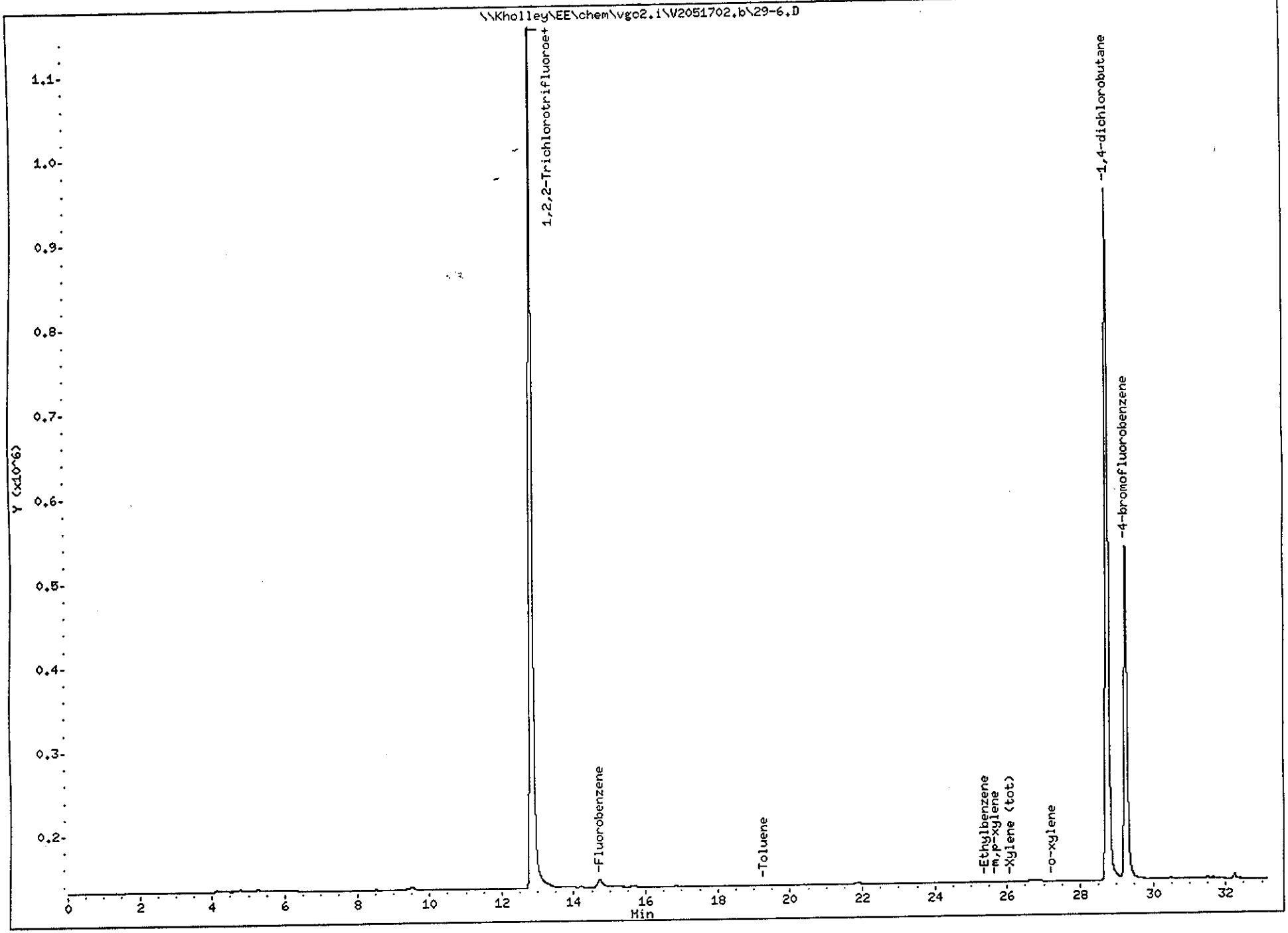
Calibration Date: 17-MAY-2002
Calibration Time: 14:16
Client Smp ID: 062CEF439N
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	6751116	3375558	13502232	6205876	-8.08
21 Fluorobenzene	1236982	618491	2473964	1123164	-9.20

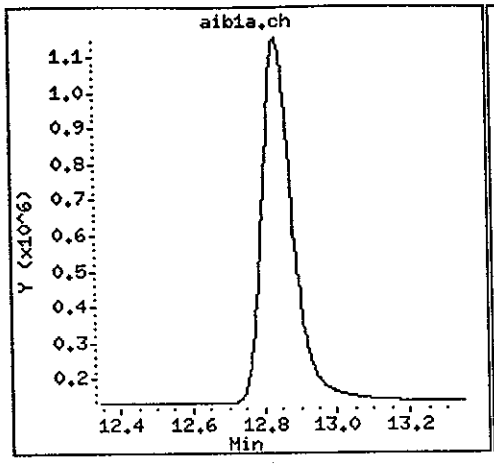
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	12.85	12.35	13.35	12.84	-0.08
21 Fluorobenzene	14.71	14.21	15.21	14.70	-0.09

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

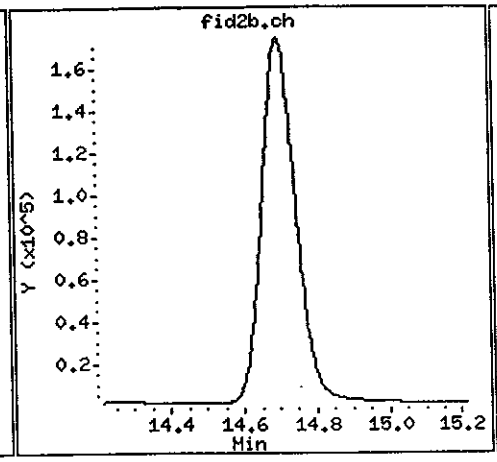
Data File: \\Kholley\EE\chem\vgc2.i\V2051702.b\29-6.D



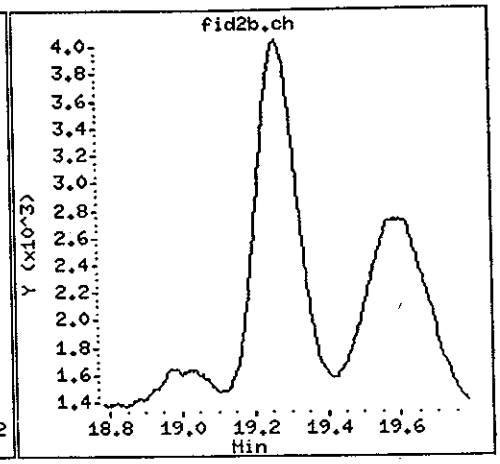
✖ 16 Bromochloromethane



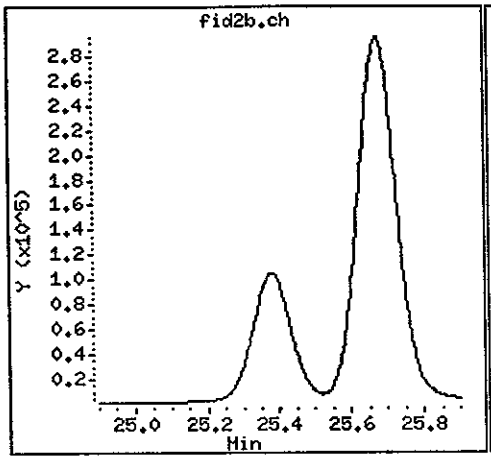
✖ 21 Fluorobenzene



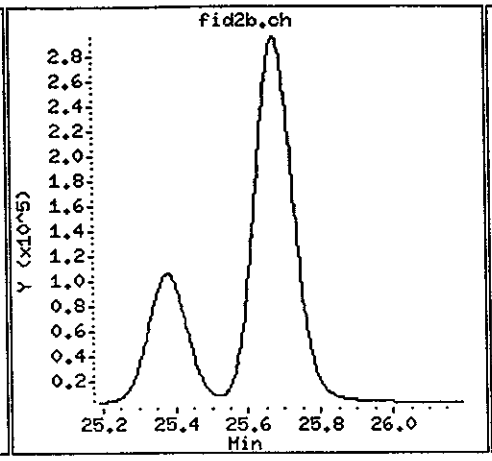
26 Toluene



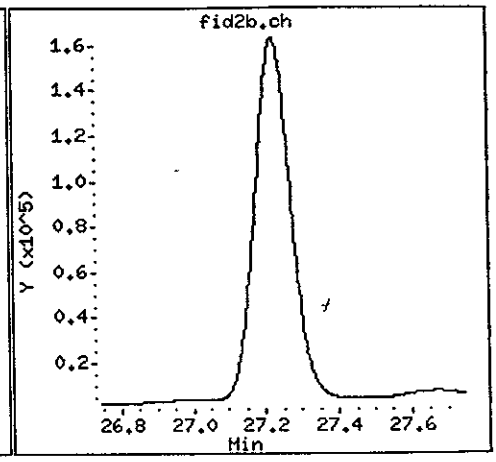
32 Ethylbenzene



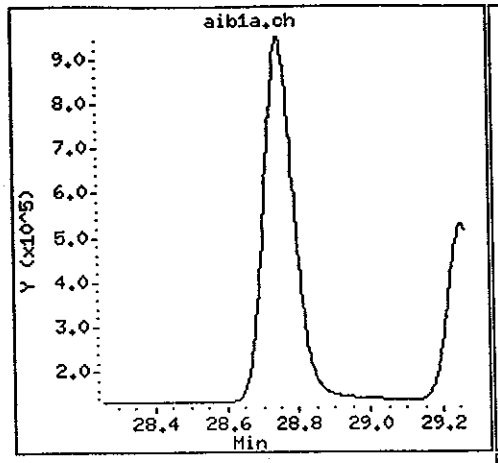
33 m,p-xylene



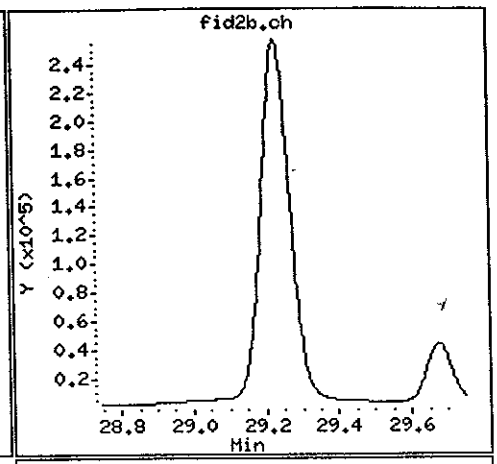
35 o-xylene

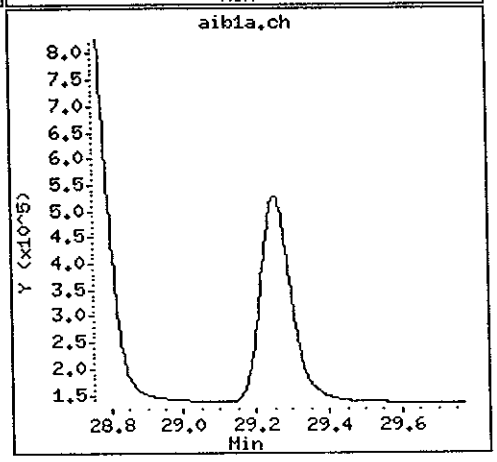


$ 37 1,4-dichlorobutane



$ 39 4-bromofluorobenzene





PEL Laboratories, Inc.

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Inj Date : 17-MAY-2002 15:54
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Smp Info : 220402907
Misc Info :
Comment :
Method : \\Kholley\EE\chem\vgc2.i\V2051702.b\8021.m
Meth Date : 23-May-2002 09:32 lpelo Quant Type: ISTD
Cal Date : 16-MAY-2002 17:50 Cal File: 100PPB.D
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8021rl.sub
Target Version: 4.04
Processing Host: FILES

Concentration Formula: Amt * DF * Vf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	

Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
* 16 Bromochloromethane	AIB1A	12.853	12.846	(1.000)	6188678	30.0000	
* 21 Fluorobenzene	FID2B	14.716	14.713	(1.000)	1074235	30.0000	
$ 37 1,4-dichlorobutane	AIB1A	28.763	28.763	(2.238)	5035756	32.5047	32.5
$ 39 4-bromofluorobenzene	FID2B	29.250	29.246	(1.988)	1316121	30.1891	30.2

PEL Laboratories, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vgc2.i
Lab File ID: 29-7.D
Lab Smp Id: 220402907
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\Kholley\EE\chem\vgc2.i\V2051702.b\8021.m
Misc Info:

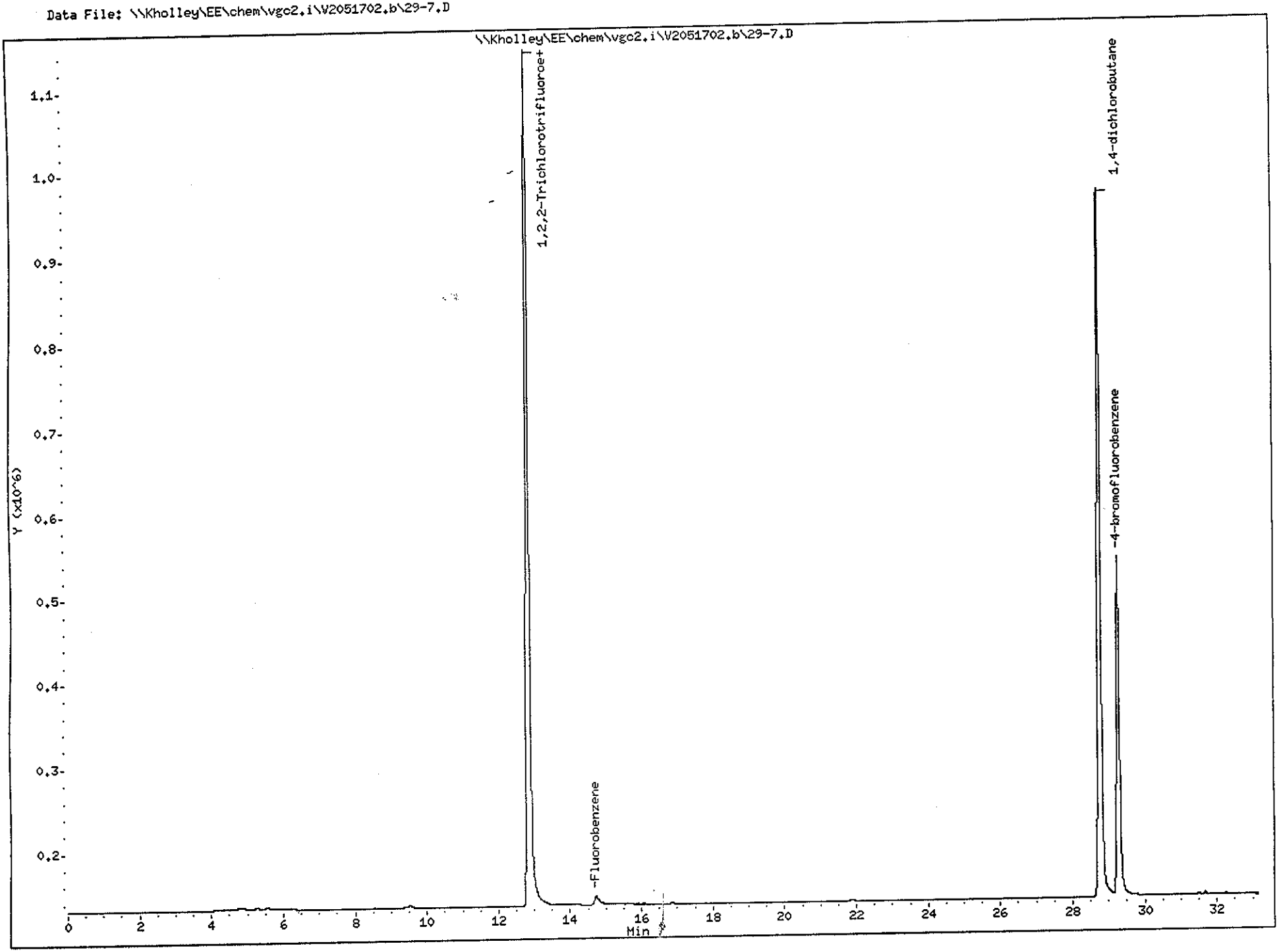
Calibration Date: 17-MAY-2002
Calibration Time: 14:16
Client Smp ID: 062CEF4333N
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	6751116	3375558	13502232	6188678	-8.33
21 Fluorobenzene	1236982	618491	2473964	1074235	-13.16

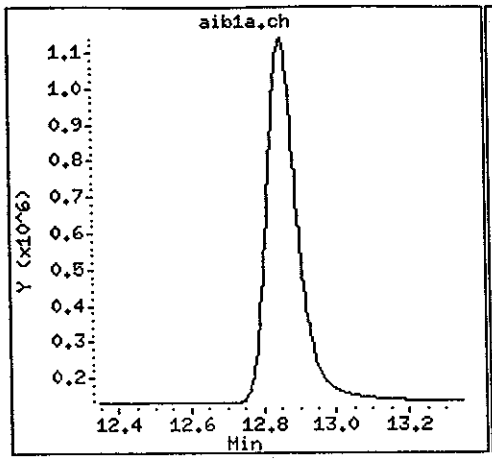
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	12.85	12.35	13.35	12.85	0.05
21 Fluorobenzene	14.71	14.21	15.21	14.72	0.02

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

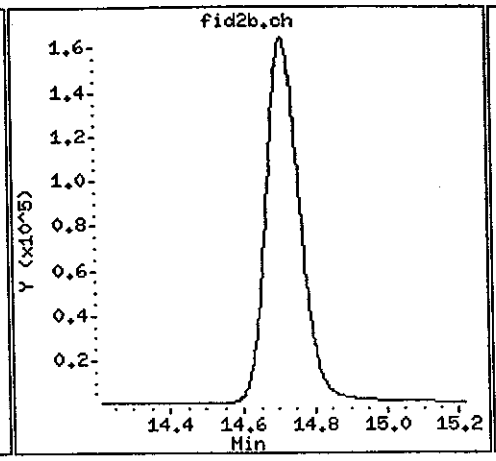
Data File: \\Kholley\EE\chem\vgc2.i\V2051702.b\29-7.D



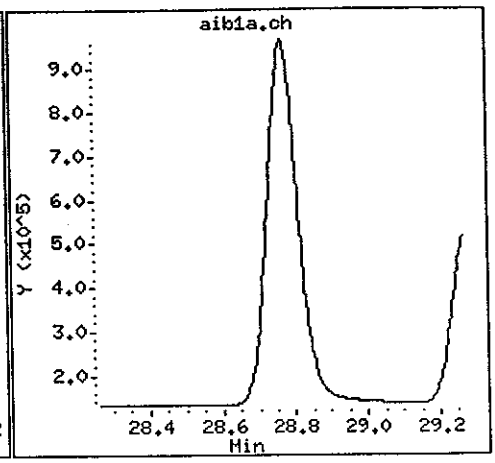
× 16 Bromochloromethane



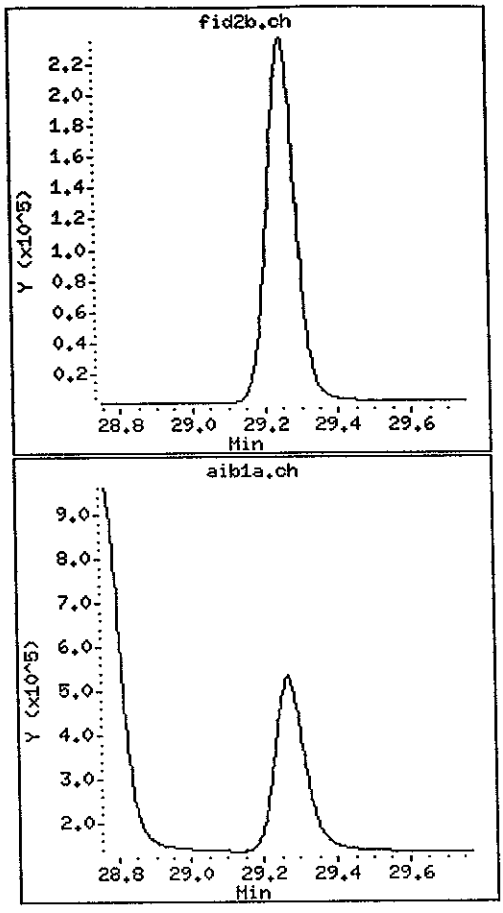
× 21 Fluorobenzene



$ 37 1,4-dichlorobutane



$ 39 4-bromofluorobenzene



PEL Laboratories, Inc.

Data file : \\Kholley\EE\chem\vgc2.i\V2051702.b\29-8.D
Lab Smp Id: 220402908 Client Smp ID: 062CEF4338N
Inj Date : 17-MAY-2002 16:35
Operator : Inst ID: vgc2.i
Smp Info : 220402908
Misc Info :
Comment :
Method : \\Kholley\EE\chem\vgc2.i\V2051702.b\8021.m
Meth Date : 23-May-2002 09:32 lpelo Quant Type: ISTD
Cal Date : 16-MAY-2002 17:50 Cal File: 100PPB.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8021rl.sub
Target Version: 4.04
Processing Host: FILES

Concentration Formula: Amt * DF * Vf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	

Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 16 Bromochloromethane	AIB1A	12.856	12.846	(1.000)	6284474	30.0000	
* 21 Fluorobenzene	FID2B	14.720	14.713	(1.000)	1095476	30.0000	
$ 37 1,4-dichlorobutane	AIB1A	28.766	28.763	(2.237)	4983602	31.6777	31.7
$ 39 4-bromofluorobenzene	FID2B	29.253	29.246	(1.987)	1307101	29.4008	29.4

PEL Laboratories, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vgc2.i
Lab File ID: 29-8.D
Lab Smp Id: 220402908
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\Kholley\EE\chem\vgc2.i\V2051702.b\8021.m
Misc Info:

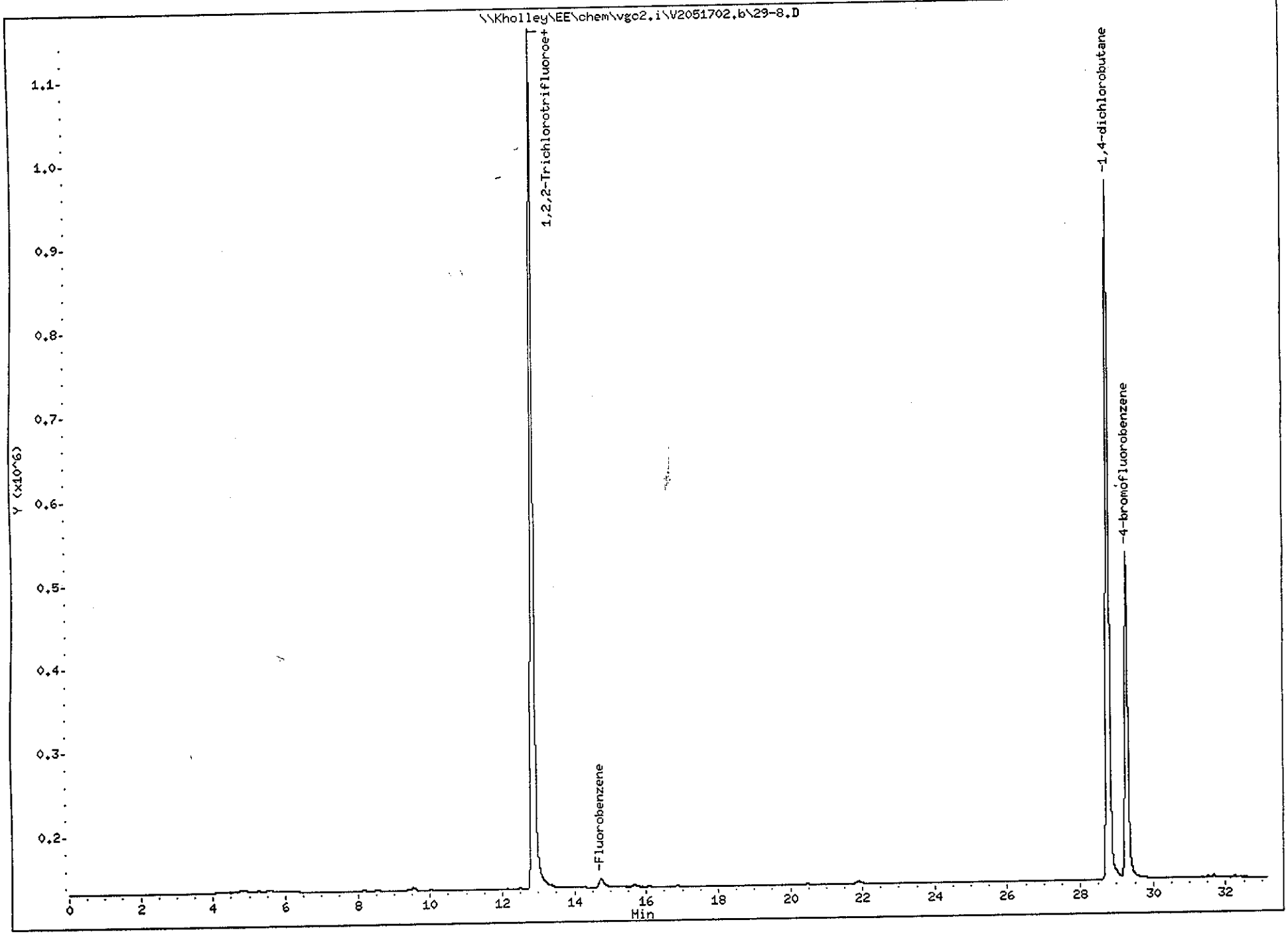
Calibration Date: 17-MAY-2002
Calibration Time: 14:16
Client Smp ID: 062CEF4338N
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	6751116	3375558	13502232	6284474	-6.91
21 Fluorobenzene	1236982	618491	2473964	1095476	-11.44

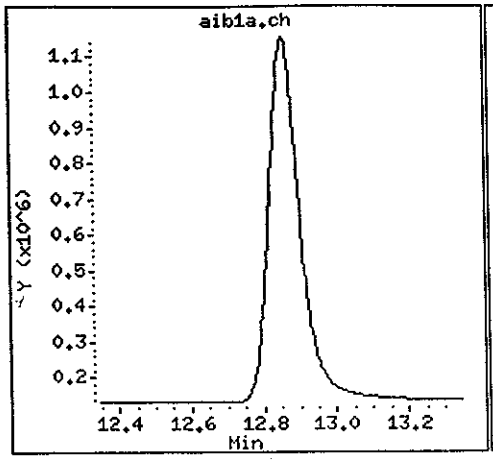
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	12.85	12.35	13.35	12.86	0.08
21 Fluorobenzene	14.71	14.21	15.21	14.72	0.05

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

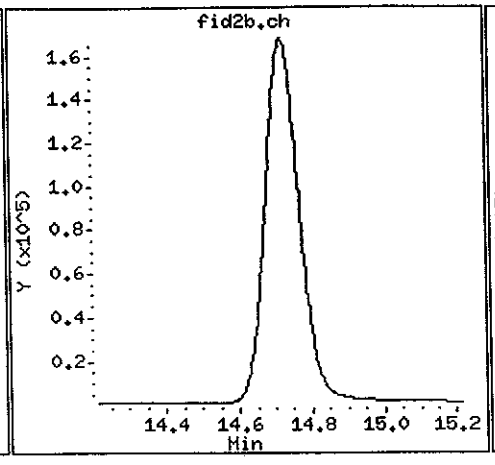
Data File: \\Kholley\EE\chem\vgc2.i\V2051702.b\29-8.D



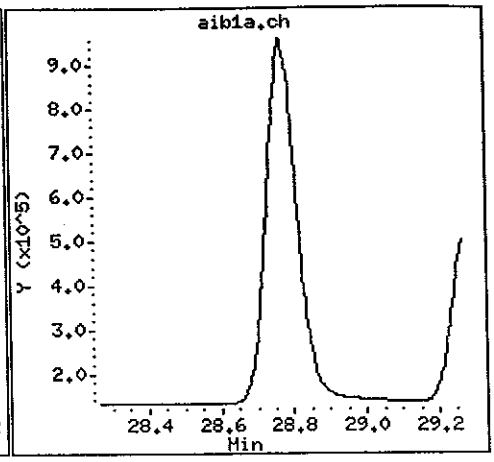
* 16 Bromochloromethane



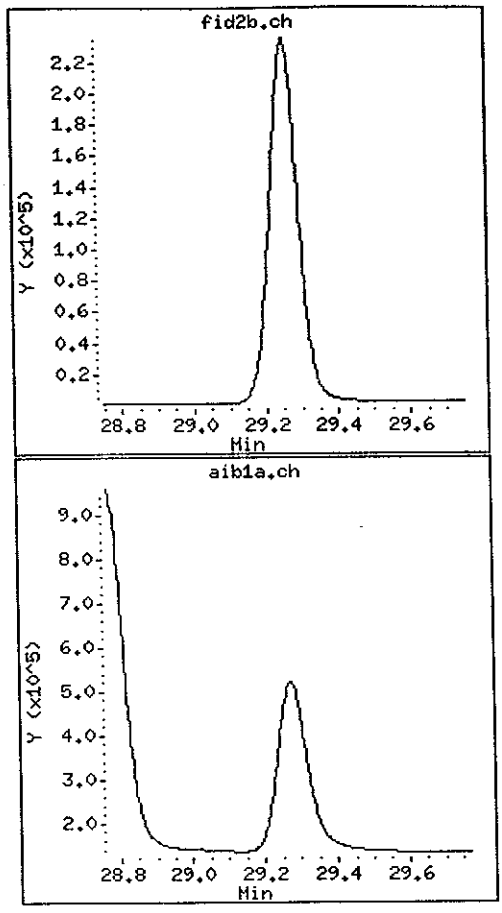
* 21 Fluorobenzene



$ 37 1,4-dichlorobutane



\$ 39 4-bromofluorobenzene



PEL Laboratories, Inc.

Data file : \\Kholley\EE\chem\vgc2.i\V2051702.b\29-9.D
Lab Smp Id: 220402909 Client Smp ID: 062DUPQ20249
Inj Date : 17-MAY-2002 17:16
Operator : Inst ID: vgc2.i
Smp Info : 220402909
Misc Info :
Comment :
Method : \\Kholley\EE\chem\vgc2.i\V2051702.b\8021.m
Meth Date : 23-May-2002 09:32 lpelo Quant Type: ISTD
Cal Date : 16-MAY-2002 17:50 Cal File: 100PPB.D
Als bottle: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8021rl.sub
Target Version: 4.04
Processing Host: FILES

Concentration Formula: Amt * DF * Vf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
*	16 Bromochloromethane	AIB1A	12.843	12.846	(1.000)	6438163	30.0000	
*	21 Fluorobenzene	FID2B	14.710	14.713	(1.000)	1132566	30.0000	
	26 Toluene	FID2B	19.276	19.283	(1.310)	29549	0.58696	0.59(a)
	32 Ethylbenzene	FID2B	25.390	25.400	(1.726)	724427	15.8759	15.9
	33 m,p-xylene	FID2B	25.673	25.690	(1.745)	1863640	36.9353	36.9
	35 o-xylene	FID2B	27.226	27.243	(1.851)	1307552	30.9598	31.0
M	34 Xylene (tot)	FID2B				3171192	67.8951	67.9
$	37 1,4-dichlorobutane	AIB1A	28.756	28.763	(2.239)	5081344	31.5280	31.5
$	39 4-bromofluorobenzene	FID2B	29.236	29.246	(1.988)	1417404	30.8378	30.8

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

PEL Laboratories, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vgc2.i
Lab File ID: 29-9.D
Lab Smp Id: 220402909
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\Kholley\EE\chem\vgc2.i\V2051702.b\8021.m
Misc Info:

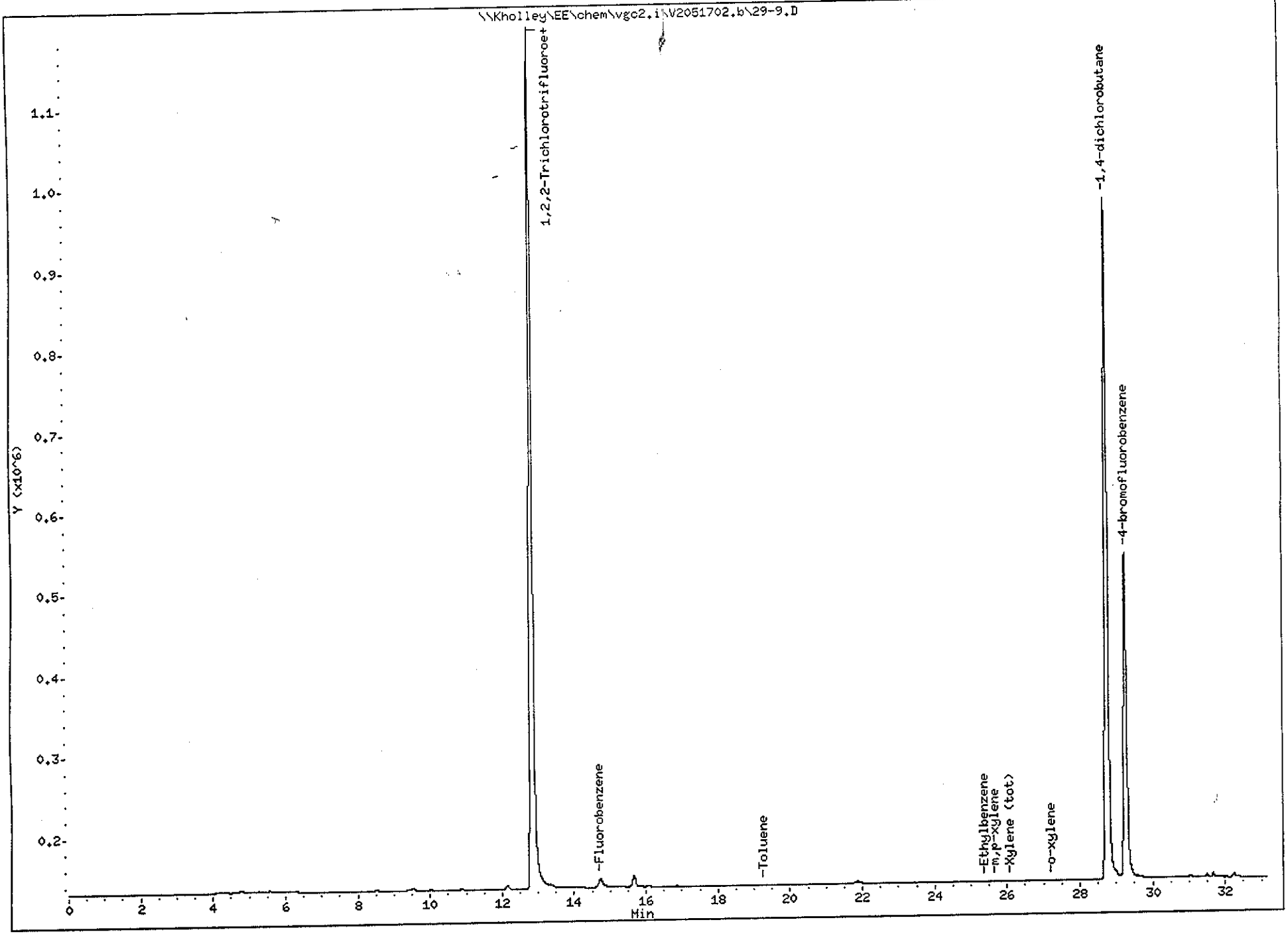
Calibration Date: 17-MAY-2002
Calibration Time: 14:16
Client Smp ID: 062DUPQ20249
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	6751116	3375558	13502232	6438163	-4.64
21 Fluorobenzene	1236982	618491	2473964	1132566	-8.44

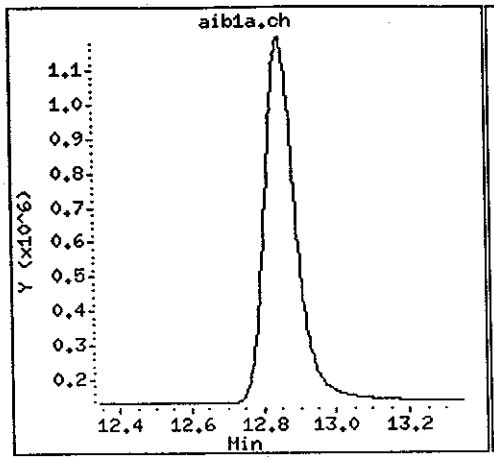
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	12.85	12.35	13.35	12.84	-0.03
21 Fluorobenzene	14.71	14.21	15.21	14.71	-0.02

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

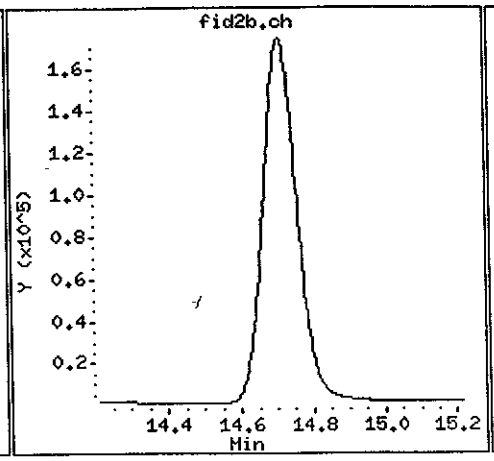
Data File: \\Kholley\EE\chem\vgc2.i\V2051702.b\29-9.D



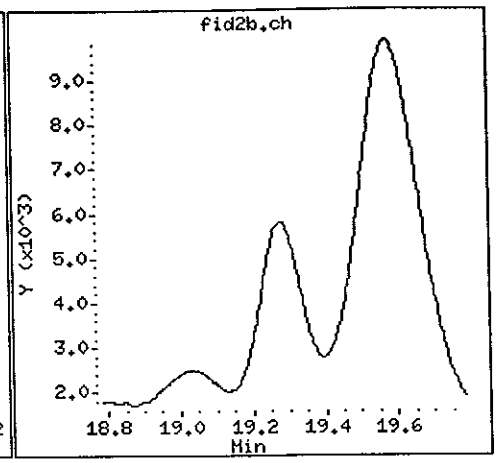
* 16 Bromochloromethane



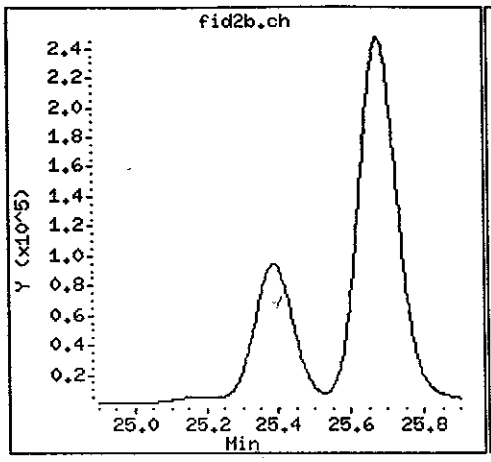
* 21 Fluorobenzene



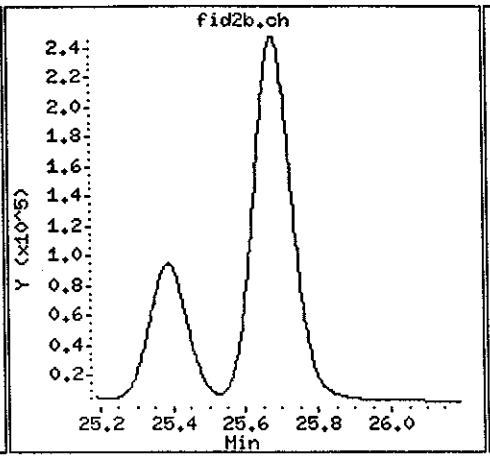
26 Toluene



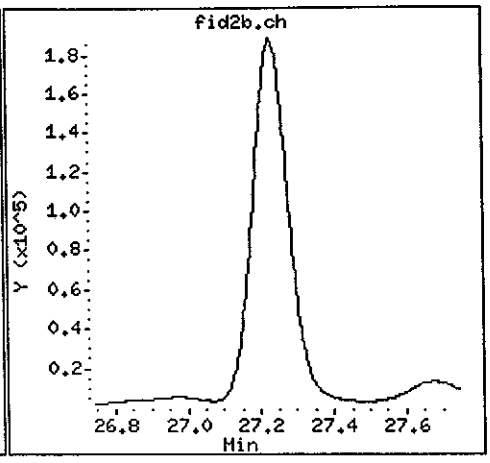
32 Ethylbenzene



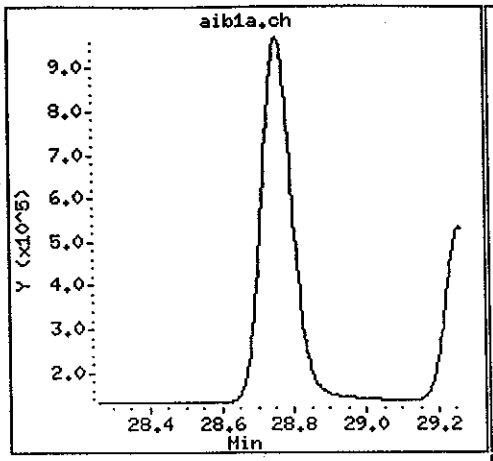
33 m,p-xylene



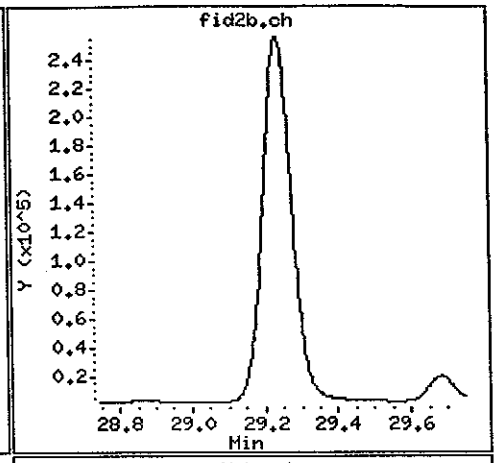
35 o-xylene

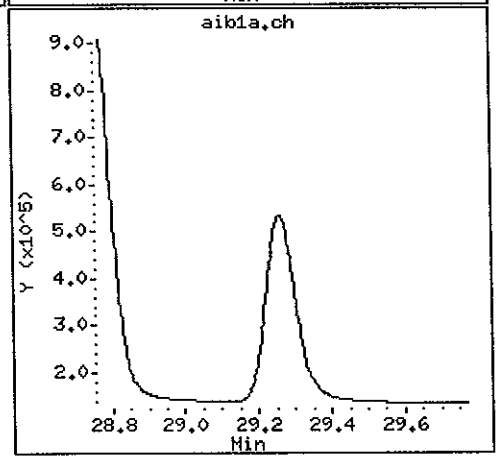


$ 37 1,4-dichlorobutane



$ 39 4-bromofluorobenzene





PEL Laboratories, Inc.

Data file : \\Kholley\EE\chem\vgc2.i\V2051702.b\29-10R.D
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Inj Date : 17-MAY-2002 15:12
Operator : Inst ID: vgc2.i
Smp Info : 220402910
Misc Info :
Comment :
Method : \\Kholley\EE\chem\vgc2.i\V2051702.b\8021.m
Meth Date : 23-May-2002 09:32 lpelo Quant Type: ISTD
Cal Date : 16-MAY-2002 17:50 Cal File: 100PPB.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8021rl.sub
Target Version: 4.04
Processing Host: FILES

Concentration Formula: Amt * DF * Vf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	15 chloroform	AIB1A	12.483	12.483	(0.971)	2303311	6.29615	6.3
*	16 Bromochloromethane	AIB1A	12.853	12.846	(1.000)	6751420	30.0000	
*	21 Fluorobenzene	FID2B	14.720	14.713	(1.000)	1184757	30.0000	
	24 bromodichloromethane	AIB1A	16.686	16.680	(1.298)	895102	3.70888	3.7
	30 dibromochloromethane	AIB1A	22.716	22.720	(1.767)	134434	0.78436	0.78(a)
$	37 1,4-dichlorobutane	AIB1A	28.763	28.763	(2.238)	4943608	29.2502	29.2
$	39 4-bromofluorobenzene	FID2B	29.246	29.246	(1.987)	1306644	27.1757	27.2

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

PEL Laboratories, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vgc2.i
Lab File ID: 29-10R.D
Lab Smp Id: 220402910
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\Kholley\EE\chem\vgc2.i\V2051702.b\8021.m
Misc Info:

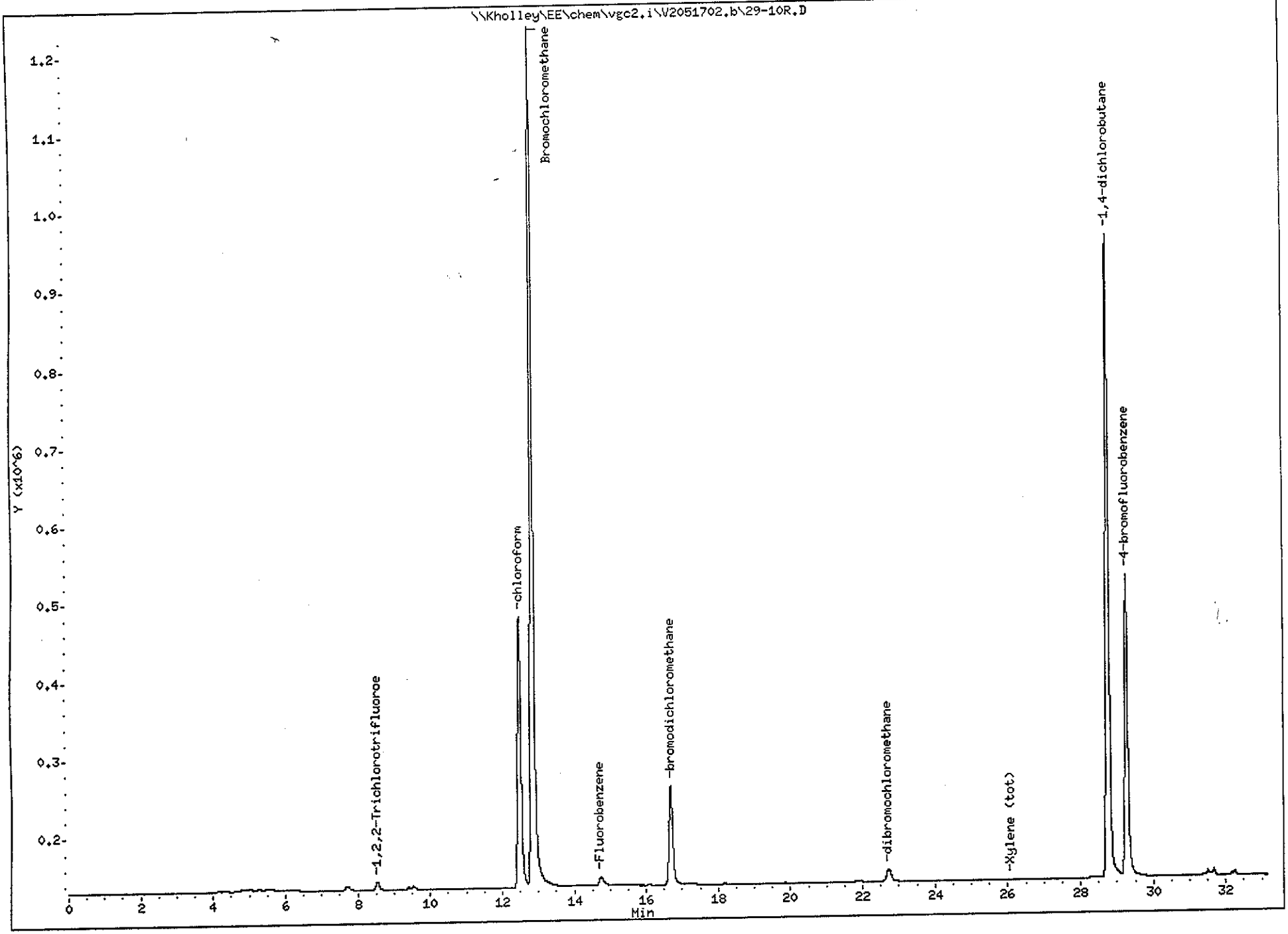
Calibration Date: 17-MAY-2002
Calibration Time: 14:16
Client Smp ID: 062EQBQ20249
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	6751116	3375558	13502232	6751420	0.00
21 Fluorobenzene	1236982	618491	2473964	1184757	-4.22

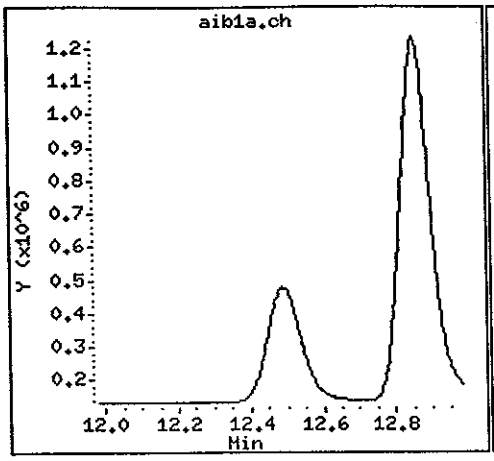
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	12.85	12.35	13.35	12.85	0.05
21 Fluorobenzene	14.71	14.21	15.21	14.72	0.05

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

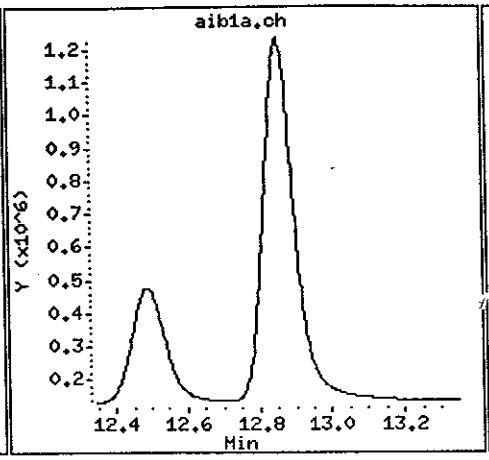
Data File: \\Kholley\EE\chem\vgc2.i\V2051702.b\29-10R.D



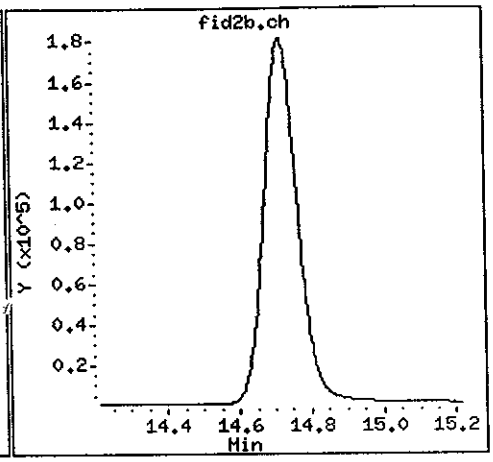
15 chloroform



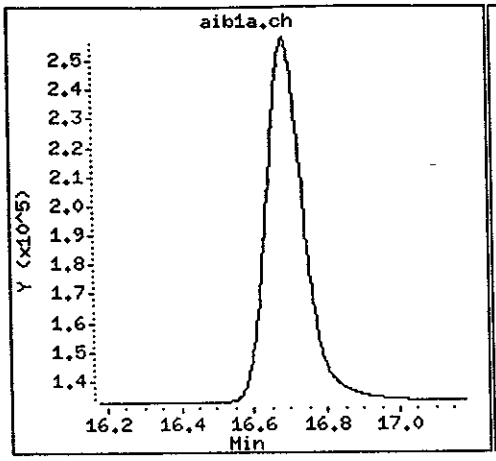
* 16 Bromochloromethane



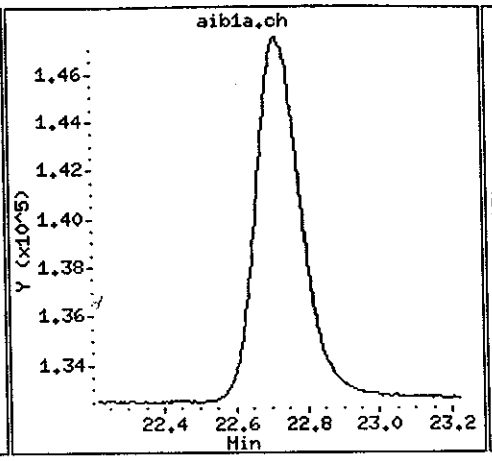
* 21 Fluorobenzene



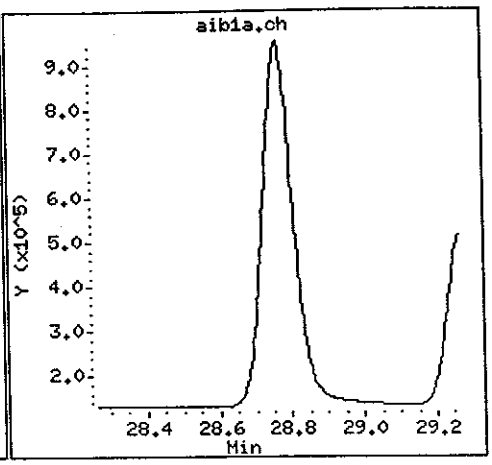
24 bromodichloromethane



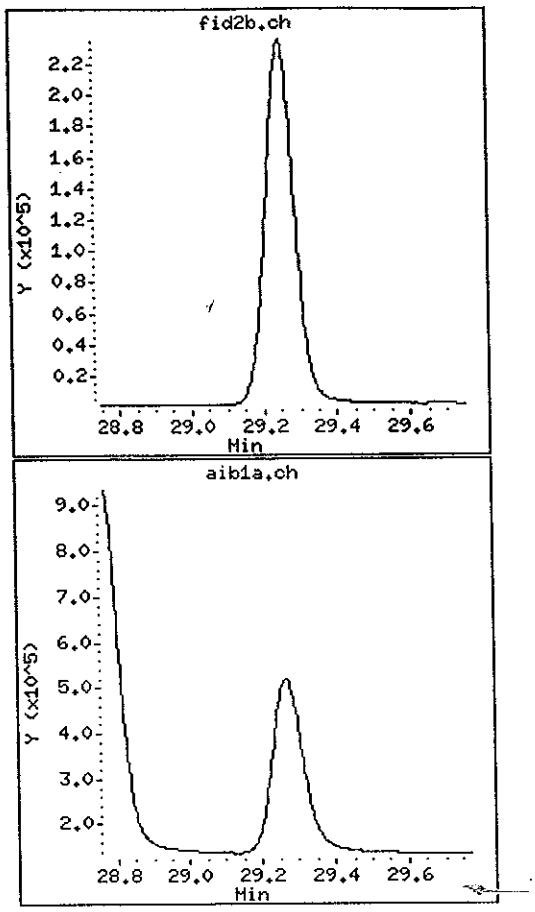
30 dibromochloromethane



$ 37 1,4-dichlorobutane



39 4-bromofluorobenzene



PEL Laboratories, Inc.

Data file : \\Kholley\EE\chem\vgc2.i\V2051702.b\29-11.D
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Inj Date : 17-MAY-2002 09:17
Operator : Inst ID: vgc2.i
Smp Info : 220402911
Misc Info :
Comment :
Method : \\Kholley\EE\chem\vgc2.i\V2051702.b\8021.m
Meth Date : 23-May-2002 09:14 lpelo Quant Type: ISTD
Cal Date : 16-MAY-2002 17:50 Cal File: 100PPB.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8021rl.sub
Target Version: 4.04
Processing Host: FILES

Concentration Formula: Amt * DF * Vf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	

Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 16 Bromochloromethane	AIB1A	12.816	12.816	(1.000)	5667217	30.0000	
* 21 Fluorobenzene	FID2B	14.683	14.683	(1.000)	1140782	30.0000	
$ 37 1,4-dichlorobutane	AIB1A	28.733	28.730	(2.242)	3845178	27.1035	27.1
$ 39 4-bromofluorobenzene	FID2B	29.213	29.206	(1.990)	1277331	27.5901	27.6

PEL Laboratories, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: vgc2.i
Lab File ID: 29-11.D
Lab Smp Id: 220402911
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\Kholley\EE\chem\vgc2.i\V2051702.b\8021.m
Misc Info:

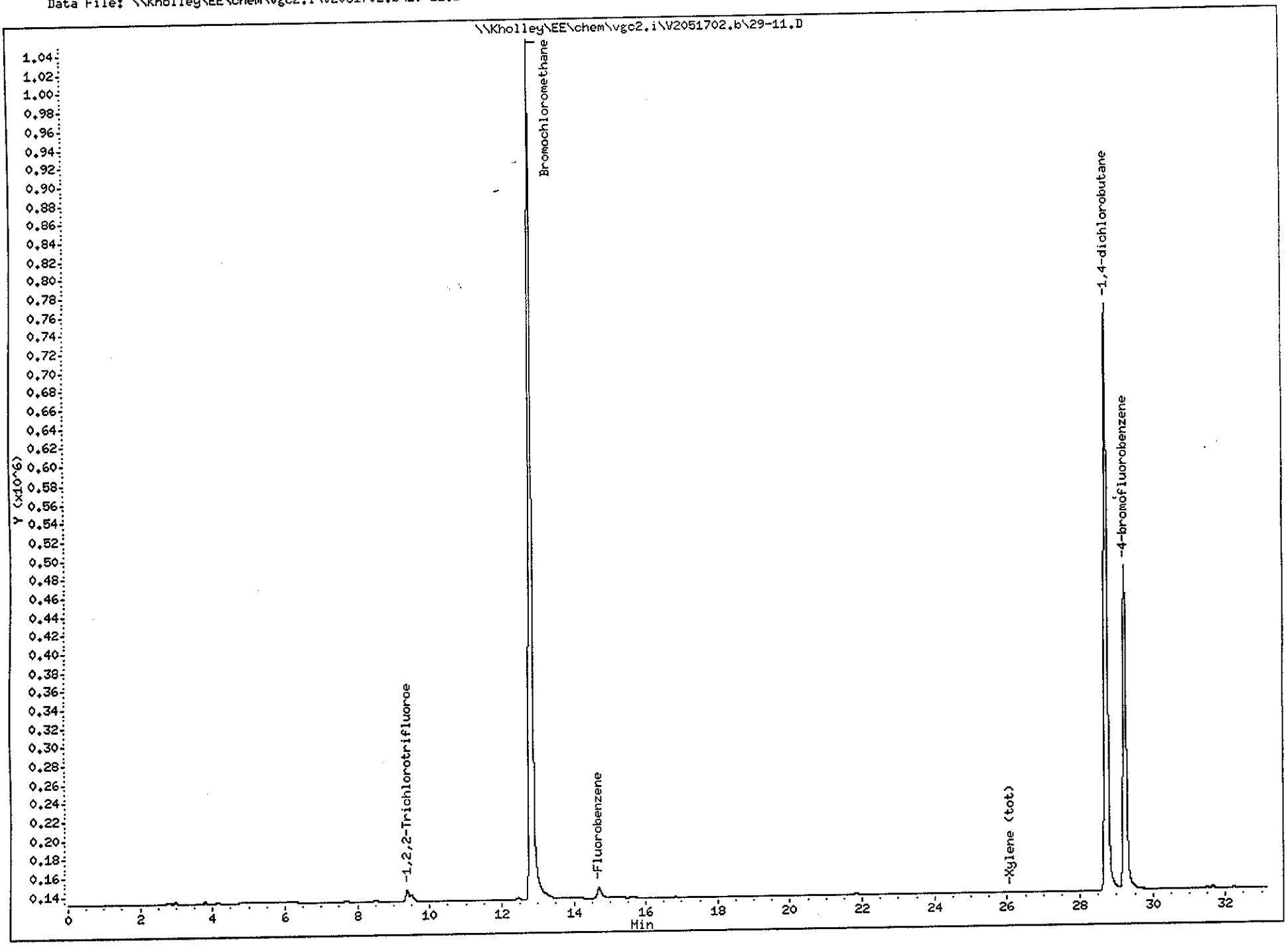
Calibration Date: 17-MAY-2002
Calibration Time: 21:18
Client Smp ID: 062TBQ20249
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	6476764	3238382	12953528	5667217	-12.50
21 Fluorobenzene	1140461	570231	2280922	1140782	0.03

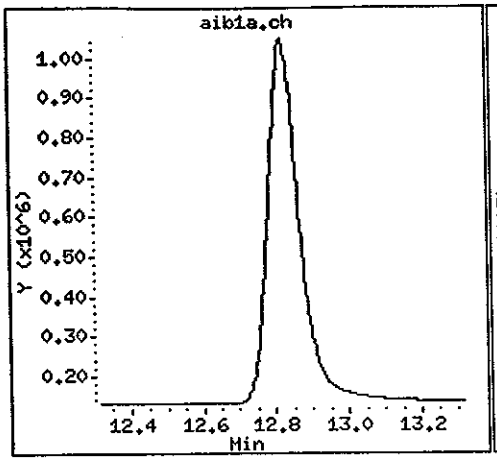
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	12.82	12.32	13.32	12.82	0.00
21 Fluorobenzene	14.68	14.18	15.18	14.68	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

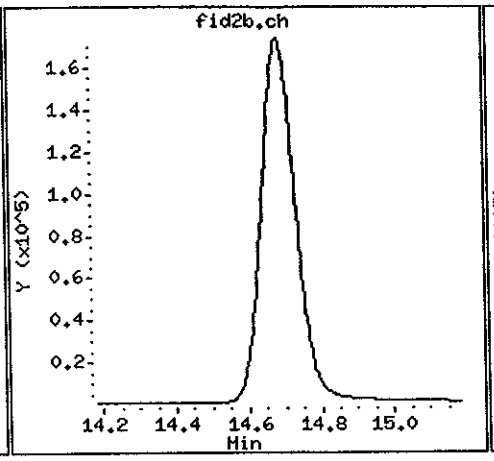
Data File: \\Kholley\EE\chem\vgc2.i\V2051702.b\29-11.D



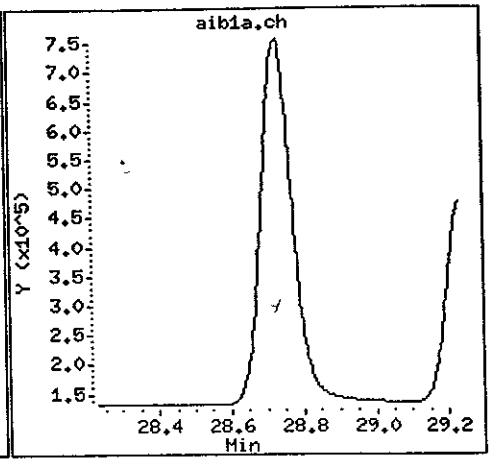
✖ 16 Bromochloromethane



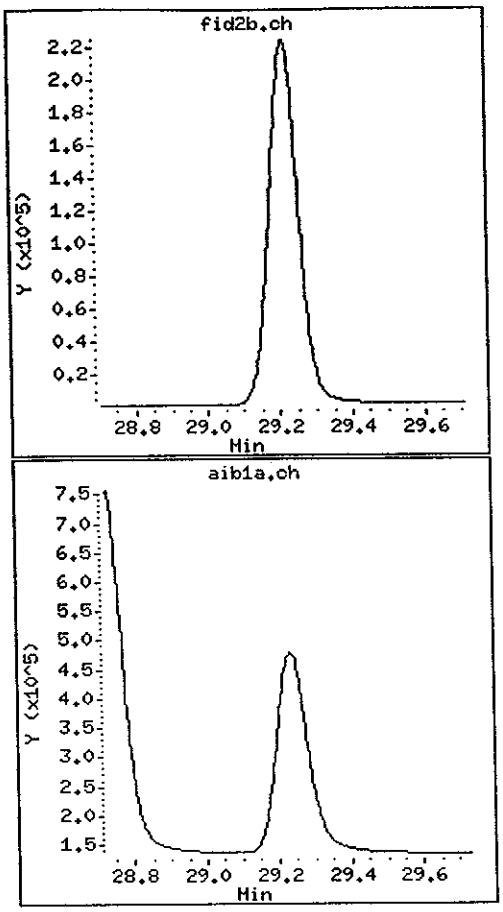
✖ 21 Fluorobenzene



$ 37 1,4-dichlorobutane



$ 39 4-bromofluorobenzene



PEL Laboratories, Inc.

Data file : \\Kholley\EE\chem\vgc2.i\V2051702.b\CCV24.D
Lab Smp Id: 0517CCV24 Client Smp ID: 0517CCV24
Inj Date : 17-MAY-2002 21:18
Operator : Inst ID: vgc2.i
Smp Info : 0517CCV24
Misc Info :
Comment :
Method : \\Kholley\EE\chem\vgc2.i\V2051702.b\8021.m
Meth Date : 23-May-2002 09:33 lpelo Quant Type: ISTD
Cal Date : 16-MAY-2002 17:50 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: FILES

Concentration Formula: Amt * DF * Vf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
	1 dichlorodifluoromethane	AIB1A	4.716	4.716	(0.368)	3300337	30.0000	29.3
	2 chloromethane	AIB1A	5.243	5.243	(0.409)	2379055	30.0000	39.4
	3 vinyl chloride	AIB1A	5.540	5.540	(0.432)	3574606	30.0000	29.6
	4 bromomethane	AIB1A	6.523	6.523	(0.509)	2838413	30.0000	33.8
	5 chloroethane	AIB1A	6.716	6.716	(0.524)	5093993	30.0000	27.7
	6 trichlorofluoromethane	AIB1A	7.210	7.210	(0.563)	4120821	30.0000	28.6
	8 1,1-dichloroethene	AIB1A	8.503	8.503	(0.663)	7194401	30.0000	26.0
	9 methylene chloride	AIB1A	9.506	9.506	(0.742)	8744622	30.0000	27.5(M)
	10 MTBE	FID2B	9.666	9.666	(0.658)	625225	30.0000	33.6
	11 trans 1,2-dichloroethene	AIB1A	10.006	10.006	(0.781)	7312863	30.0000	26.1
	13 1,1-dichloroethane	AIB1A	10.856	10.856	(0.847)	7399959	30.0000	26.7
	14 cis-1,2-dichloroethene	AIB1A	12.123	12.123	(0.946)	7276348	30.0000	27.1
M	12 1,2-Dichloroethene (tot)	AIB1A				14589211	60.0000	53.2
	15 chloroform	AIB1A	12.456	12.456	(0.972)	9357707	30.0000	26.7
*	16 Bromochloromethane	AIB1A	12.816	12.816	(1.000)	6476764	30.0000	
	17 1,1,1-trichloroethane	AIB1A	13.343	13.343	(1.041)	7555401	30.0000	24.9
	18 carbon tetrachloride	AIB1A	13.920	13.920	(1.086)	8969084	30.0000	25.6

	Compounds	QUANT SIG DET	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
	19 1,2-dichloroethane	AIB1A	14.190	14.190	(1.107)	7337497	30.0000	27.3
	20 Benzene	FID2B	14.256	14.256	(0.971)	1575720	30.0000	29.0
*	21 Fluorobenzene	FID2B	14.683	14.683	(1.000)	1140461	30.0000	
	22 trichloroethene	AIB1A	15.630	15.630	(1.220)	8149714	30.0000	25.3
	23 1,2-dichloropropane	AIB1A	16.040	16.040	(1.251)	6685388	30.0000	27.2
	24 Bromodichloromethane	AIB1A	16.646	16.646	(1.299)	6501353	30.0000	28.1
	25 cis-1,3-dichloropropene	AIB1A	18.150	18.150	(1.416)	6379310	30.0000	27.1
	26 Toluene	FID2B	19.240	19.240	(1.310)	1449043	30.0000	28.6
	27 trans-1,3-dichloropropene	AIB1A	19.810	19.810	(1.546)	5508385	30.0000	26.9
	28 1,1,2-trichlorethane	AIB1A	20.433	20.433	(1.594)	7093748	30.0000	28.0
	29 tetrachloroethene	AIB1A	21.830	21.830	(1.703)	8459690	30.0000	24.4
	30 dibromochloromethane	AIB1A	22.666	22.666	(1.769)	4914880	30.0000	29.9
	31 chlorobenzene	AIB1A	25.176	25.176	(1.964)	3402377	30.0000	27.7
	32 Ethylbenzene	FID2B	25.356	25.356	(1.727)	1311199	30.0000	28.5
	33 m,p-xylene	FID2B	25.650	25.650	(1.747)	2917378	60.0000	57.4
	35 o-xylene	FID2B	27.203	27.203	(1.853)	1256641	30.0000	29.5
	36 bromoform	AIB1A	28.423	28.423	(2.218)	2996294	30.0000	30.1
M	34 Xylene (tot)	FID2B				4174019	90.0000	87.0
$	37 1,4-dichlorobutane	AIB1A	28.730	28.730	(2.242)	4445213	30.0000	27.4
	38 1,1,2,2-tetrachloroethane	AIB1A	28.970	28.970	(2.260)	4840275	30.0000	27.9
$	39 4-bromofluorobenzene	FID2B	29.206	29.206	(1.989)	1375017	30.0000	29.7
	40 1,3-dichlorobenzene	AIB1A	31.483	31.483	(2.456)	4289335	30.0000	28.3
	41 1,4-dichlorobenzene	AIB1A	31.650	31.650	(2.469)	4607059	30.0000	28.3
	42 1,2-dichlorobenzene	AIB1A	32.230	32.230	(2.515)	4179166	30.0000	28.7

QC Flag Legend

M - Compound response manually integrated.

PEL Laboratories, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

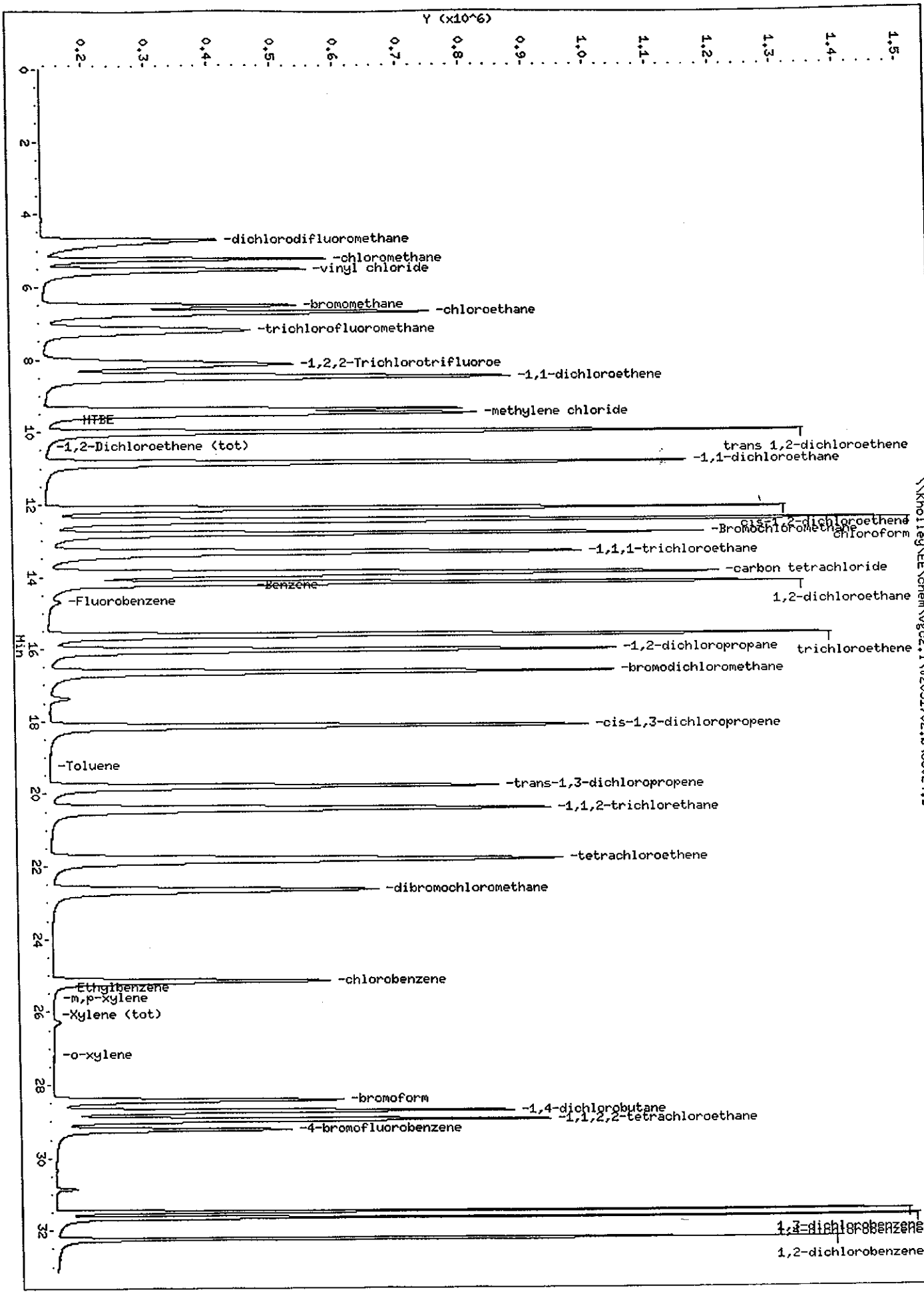
Instrument ID: vgc2.i
Lab File ID: CCV24.D
Lab Smp Id: 0517CCV24
Analysis Type: VOA
Quant Type: ISTD
Operator:
Method File: \\Kholley\EE\chem\vgc2.i\V2051702.b\8021.m
Misc Info:

Calibration Date: 17-MAY-2002
Calibration Time: 14:16
Client Smp ID: 0517CCV24
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	6751116	3375558	13502232	6476764	-4.06
21 Fluorobenzene	1236982	618491	2473964	1140461	-7.80

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
16 Bromochloromethan	12.85	12.35	13.35	12.82	-0.23
21 Fluorobenzene	14.71	14.21	15.21	14.68	-0.20

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.


Y (x10^6)
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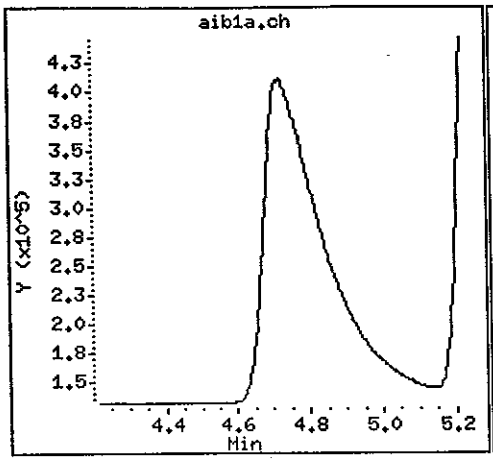
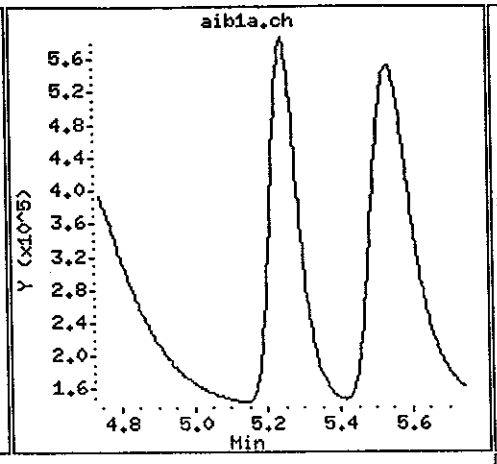
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4
1.5
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
32
Min
-dichlorodifluoromethane
-chloromethane
-vinyl chloride
-bromomethane
-chloroethane
-trichlorofluoromethane
-1,2,2-Trichlorotrifluoroe
-1,1-dichloroethene
-methylene chloride
MTBE
-1,2-Dichloroethene (tot)
trans 1,2-dichloroethene
-1,1-dichloroethane
cis-1,2-dichloroethene
-Bromochloromethane
chloroform
-1,1,1-trichloroethane
-carbon tetrachloride
-Benzene
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
-1,4-dichlorobutane
-1,1,2,2-tetrachloroethane
-4-bromofluorobenzene
1,3-dichlorobenzene
1,4-dichlorobenzene
1,2-dichlorobenzene
Data File: \\Kholley\EE\chem\vgc2.i\V2051702.b\CCV24.D
\\Kholley\EE\chem\vgc2.i\V2051702.b\CCV24.D

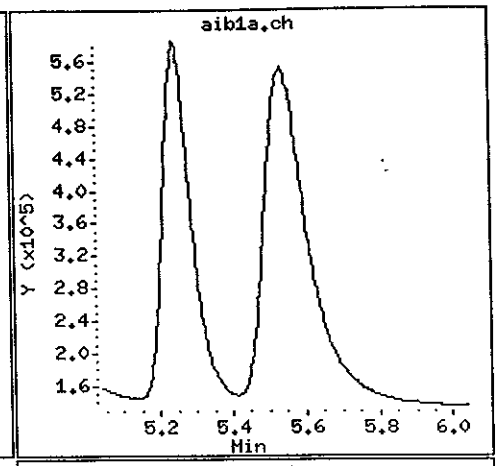
1 dichlorodifluoromethane

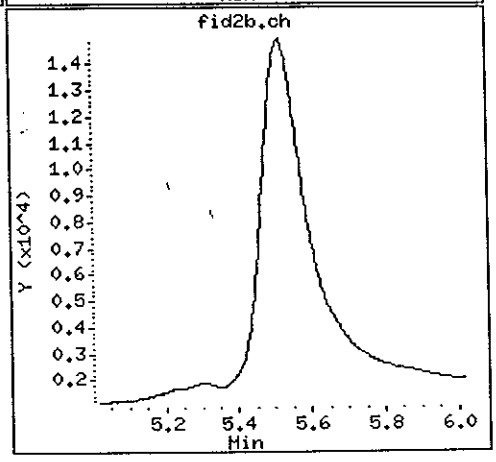


2 chloromethane

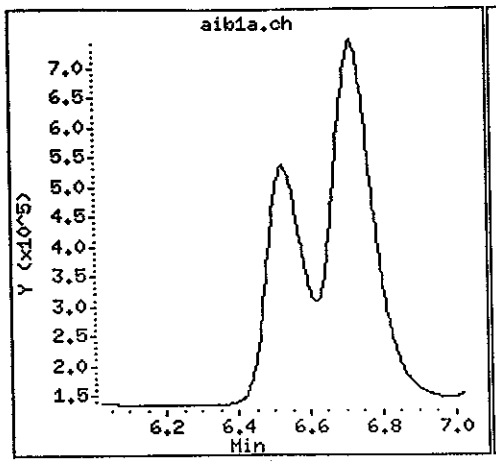


3 vinyl chloride

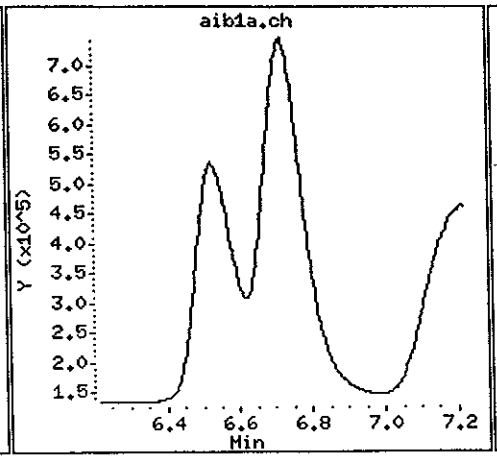




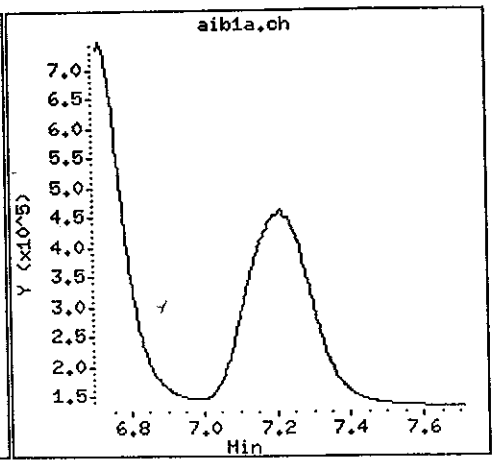
4 bromomethane



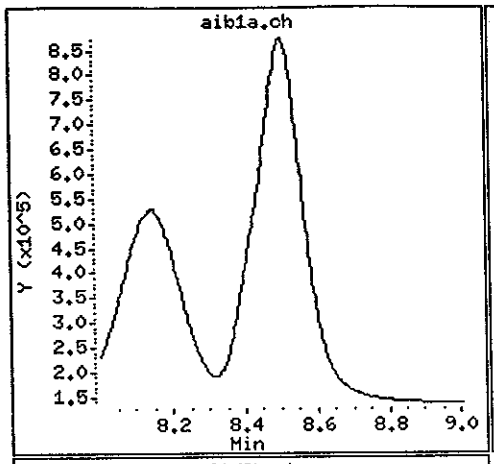
5 chloroethane



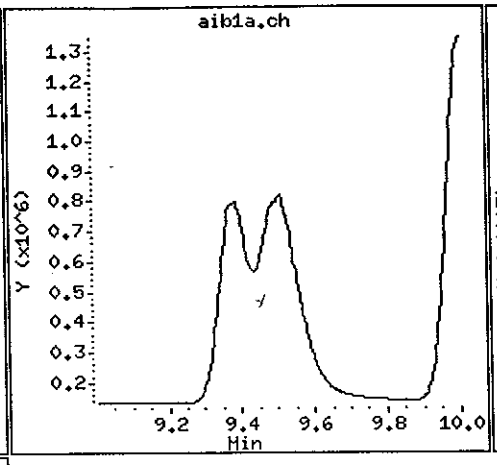
6 trichlorofluoromethane



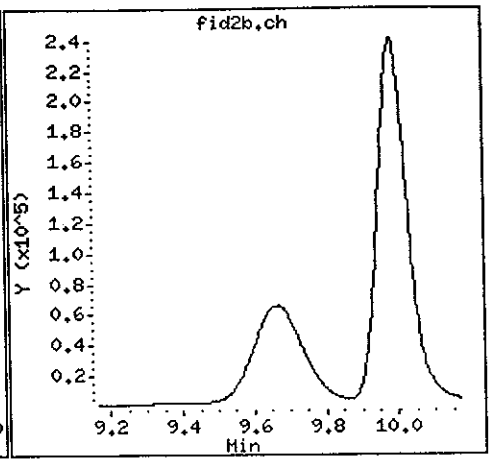
8 1,1-dichloroethene

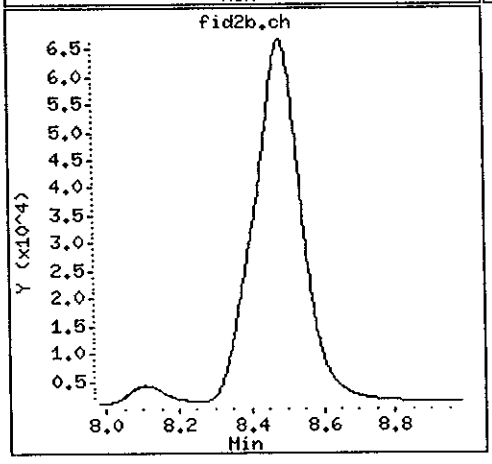


9 methylene chloride

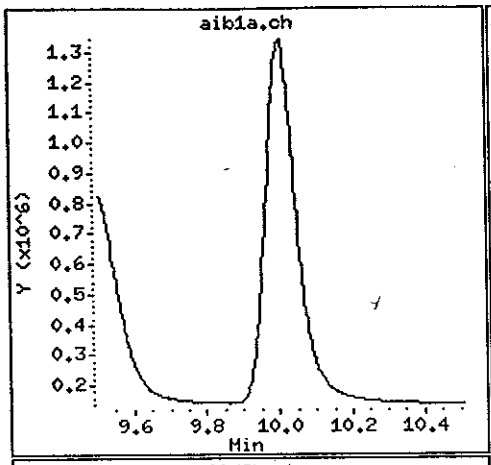


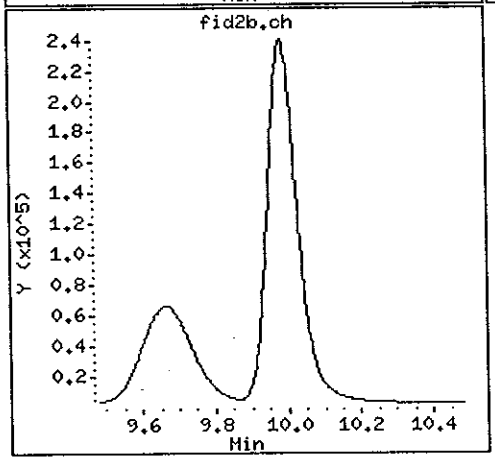
10 MTBE



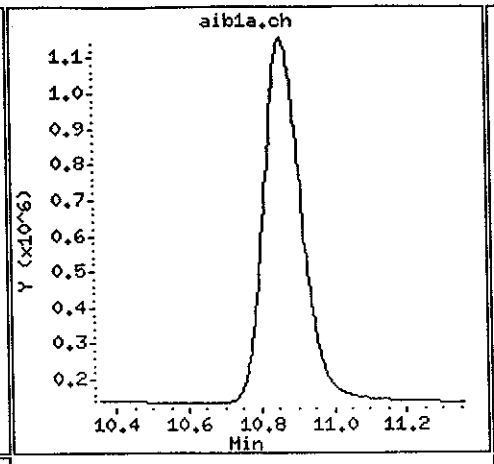


11 trans 1,2-dichloroethene

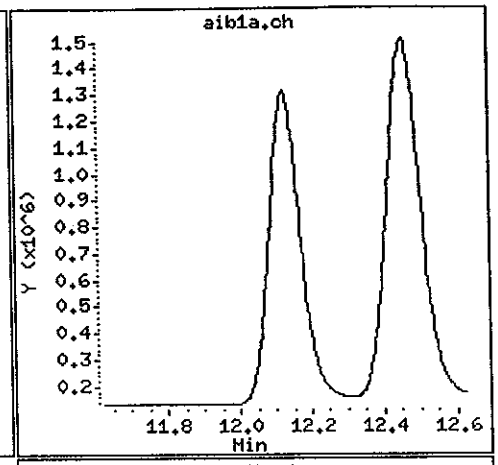


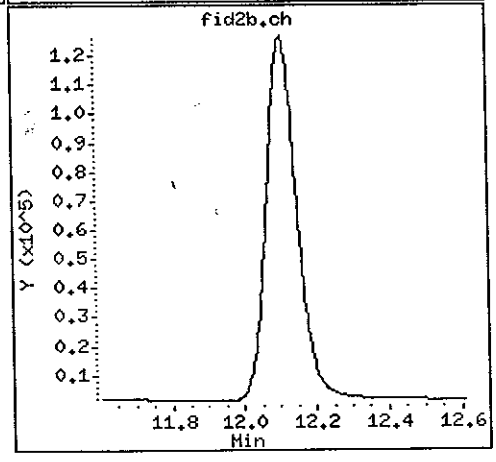


13 1,1-dichloroethane

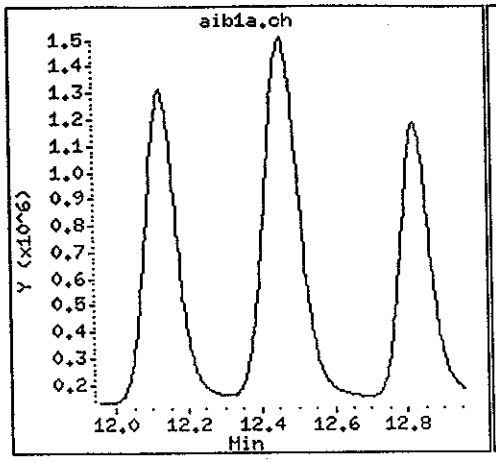


14 cis-1,2-dichloroethene

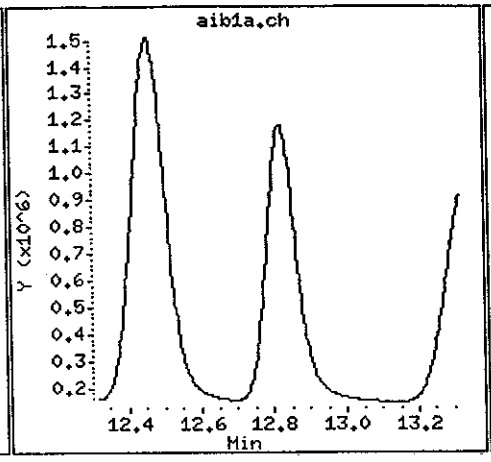




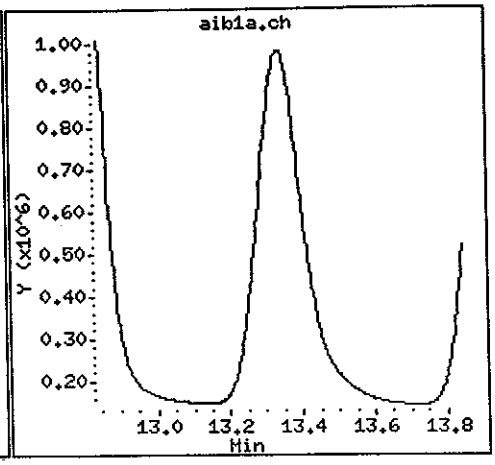
15 chloroform



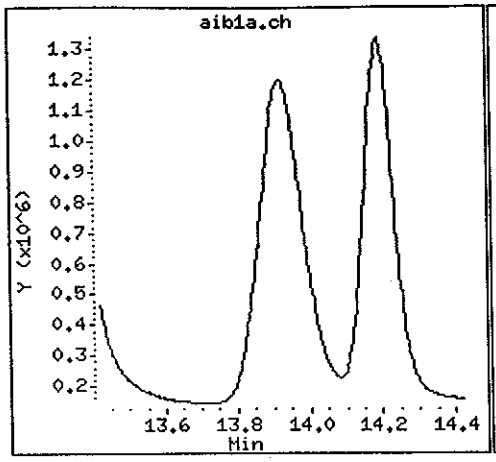
× 16 Bromochloromethane



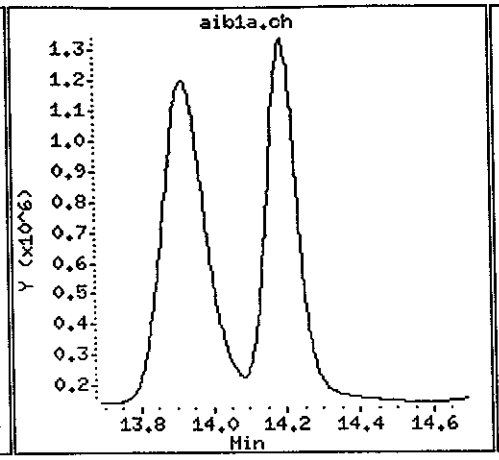
17 1,1,1-trichloroethane



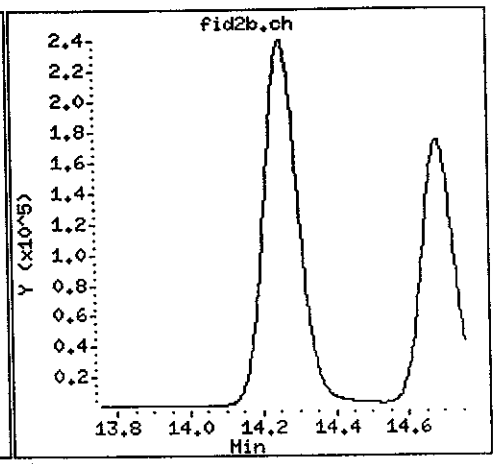
18 carbon tetrachloride



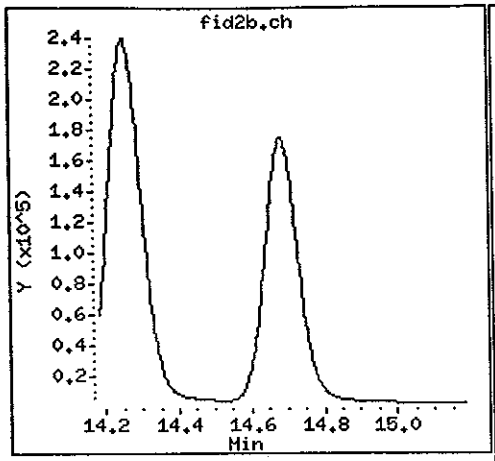
19 1,2-dichloroethane



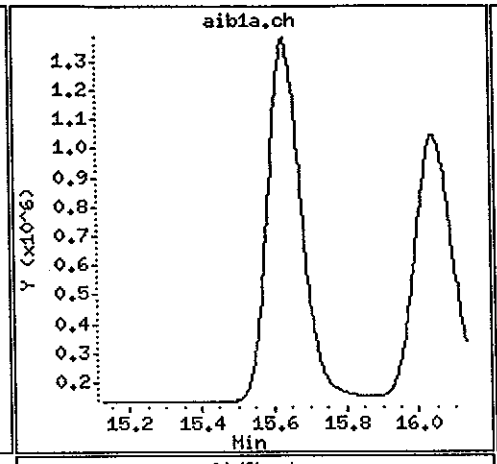
20 Benzene



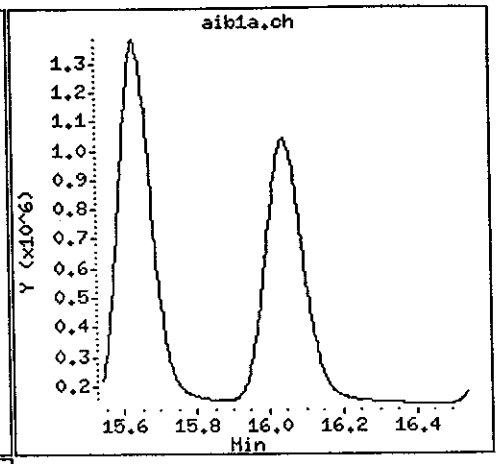
✖ 21 Fluorobenzene

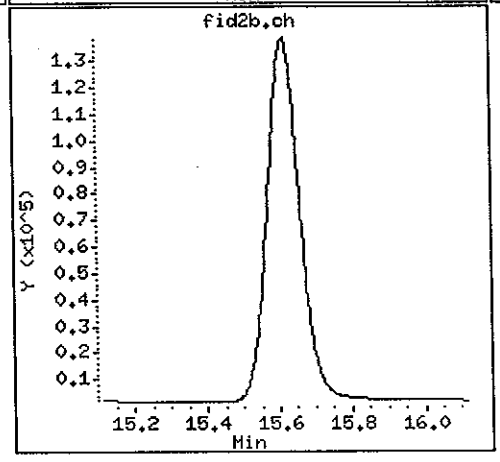


22 trichloroethene

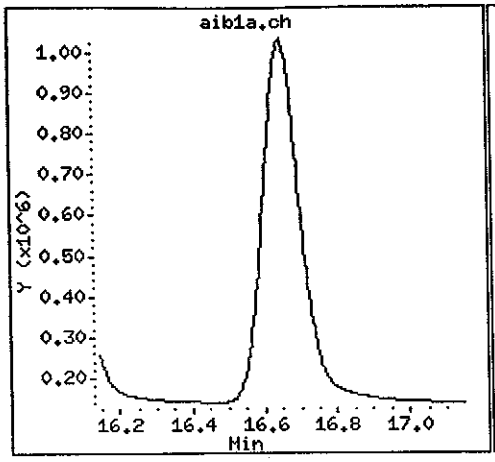


23 1,2-dichloropropane

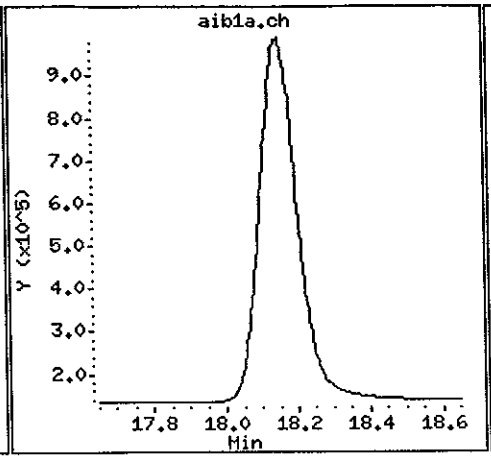




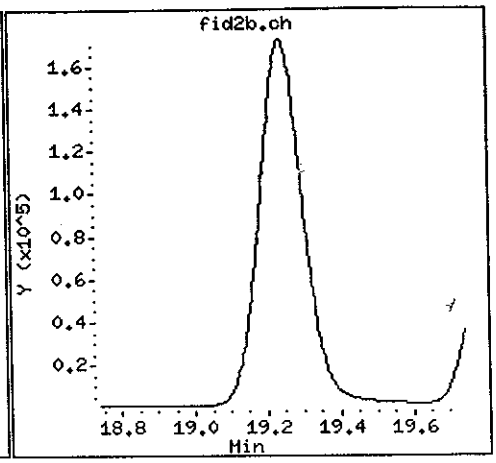
24 bromodichloromethane



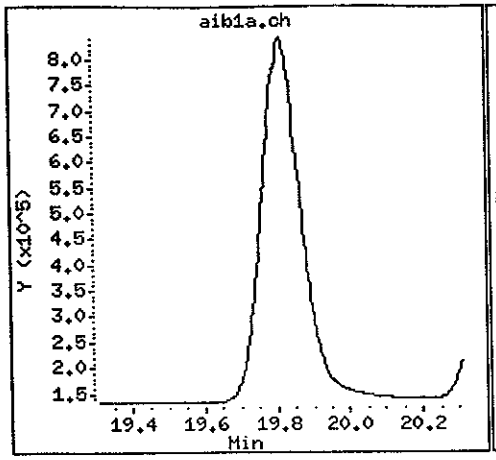
25 cis-1,3-dichloropropene



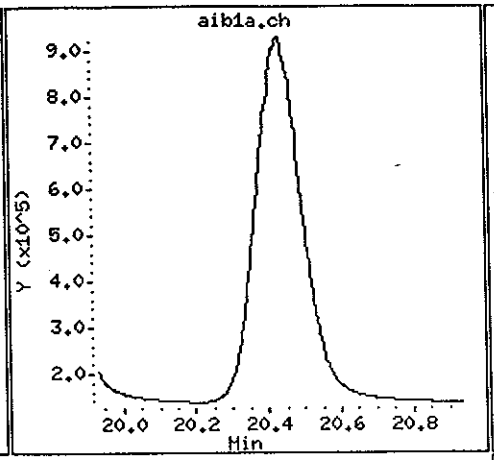
26 Toluene



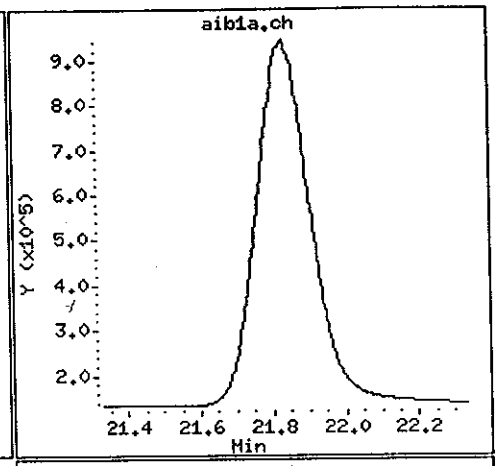
27 trans-1,3-dichloropropen

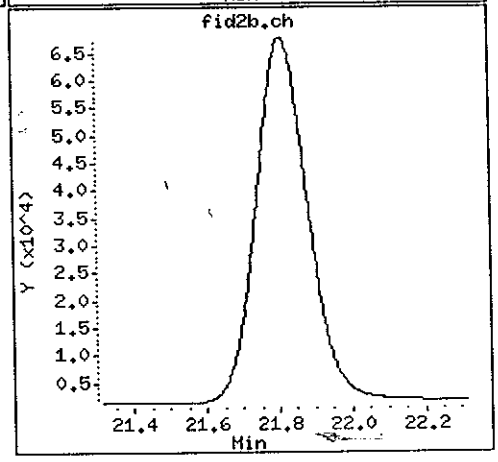


28 1,1,2-trichlorethane

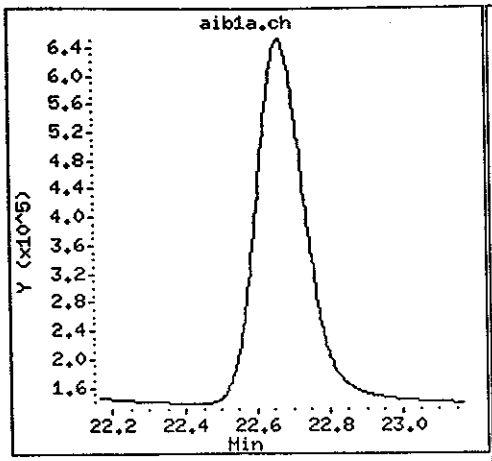


29 tetrachloroethene

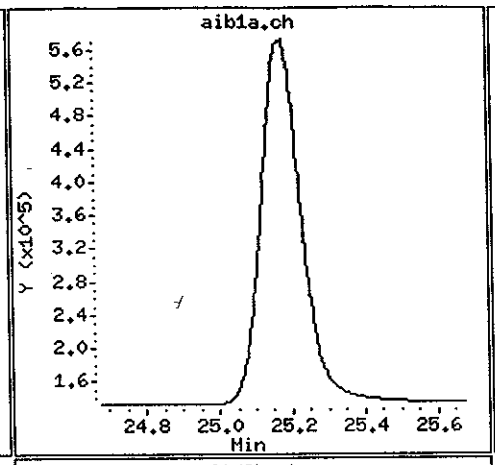




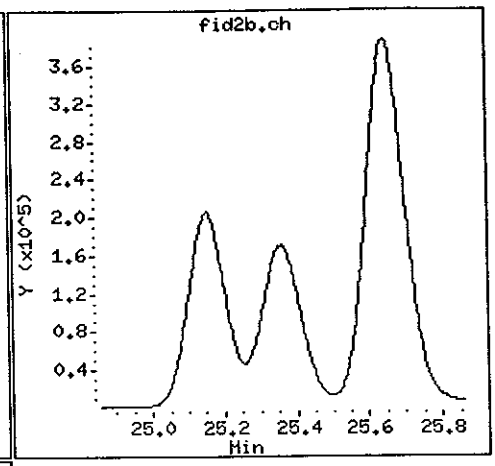
30 dibromochloromethane

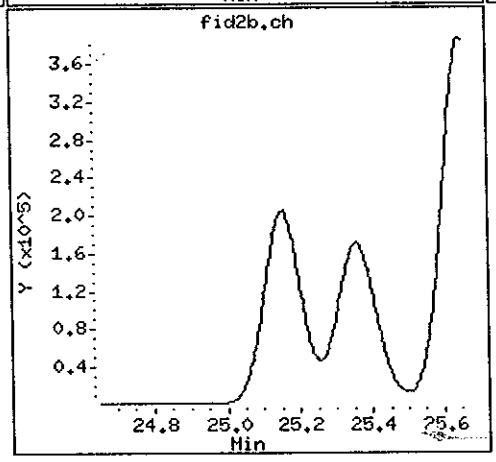


31 chlorobenzene

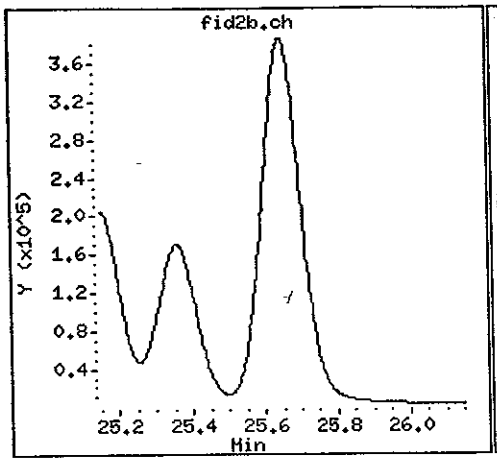


32 Ethylbenzene

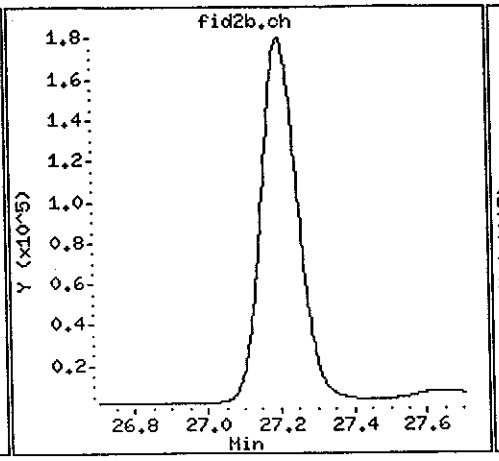




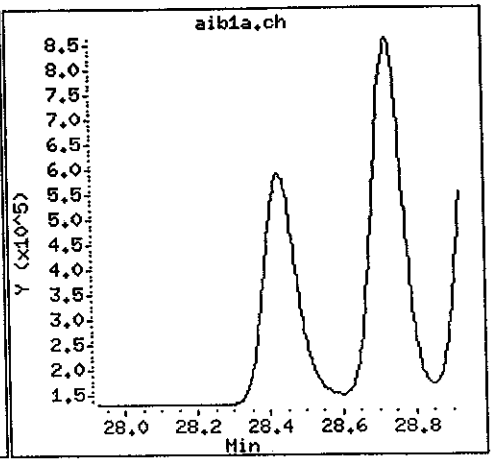
33 m,p-xylene



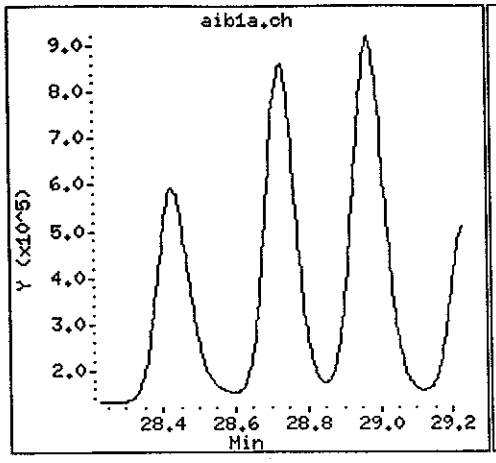
35 o-xylene



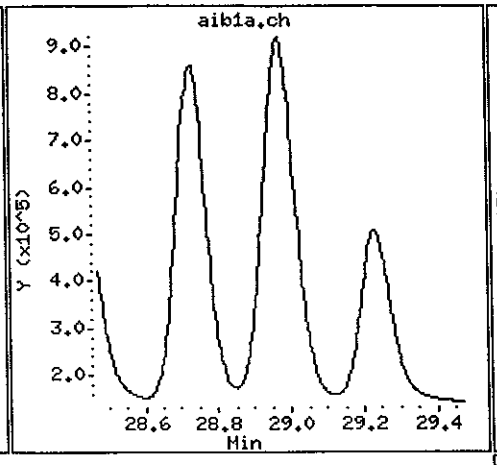
36 bromoform



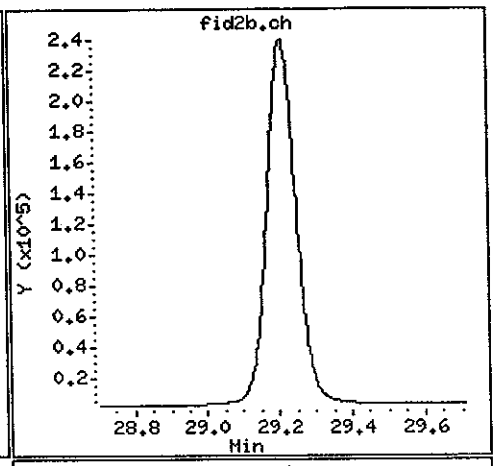
$ 37 1,4-dichlorobutane

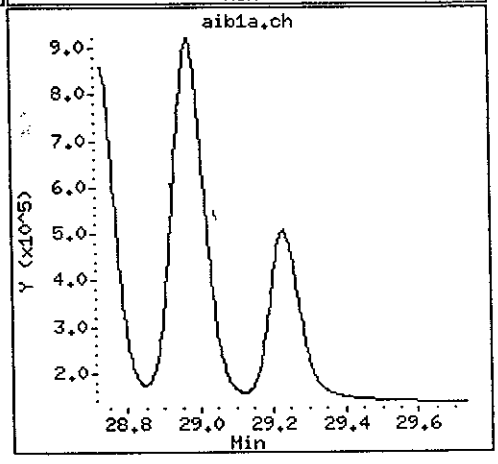


38 1,1,2,2-tetrachloroethan



$ 39 4-bromofluorobenzene

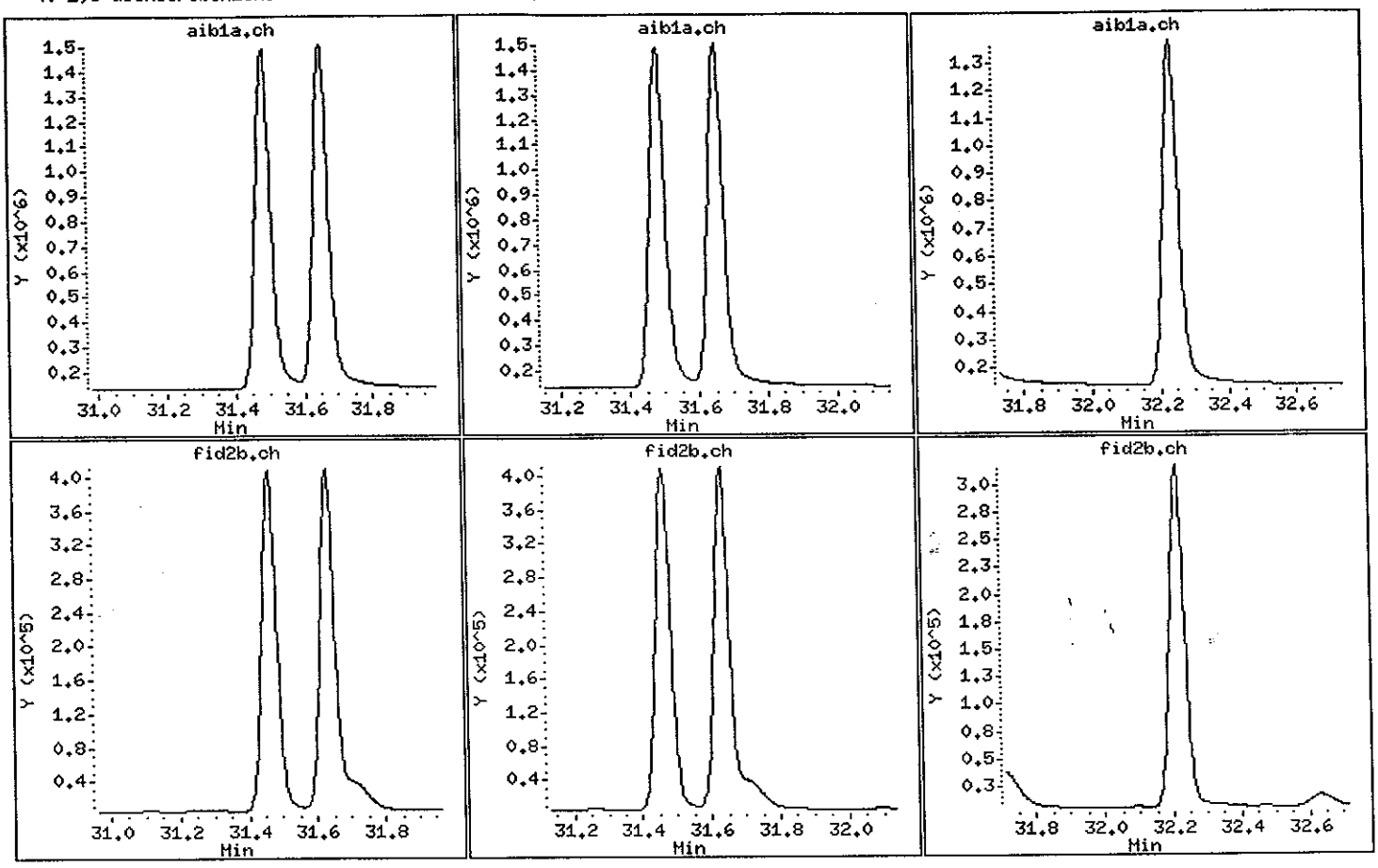




40 1,3-dichlorobenzene

41 1,4-dichlorobenzene

42 1,2-dichlorobenzene



2204-029
Raw Data
HPLC Semi-Volatile Organics
(Method 610)

5/14/02 TS LC 2 8310AE L2051402 5/14/02 TS

21 SV 4942 CCV 21 + CCV 22
1 0514 Blk X
2 0514 LCS
3 0514 Blk MS
4 0514 Blk MSD
5 2204 028 03
6 ↓ 07
7 029 01
8 02 MS
9 03 MSD
10 ↓ 04
21 SV4942 CCV 31 + CCV 32
11 2204 029 05
12 06
13 07
14 08
15 09
16 ↓ 10
17 036 -1
18 -2
19 -3
20 -4
21 SV 4942 CCV 41 + CCV 42
1 0514 Blk 2 RERUN
2 2204 036 05
3 06
4 ↓ 044 - 1
21 SV4942 CCV 51 + CCV 52
1 2204 028 07 R X
2 ↓ 036 04 is all 100 ul
21 SV 4942 CCV 61 + CCV 62

14-02

5/17/02

3510/8510

DATE 5/14/02 aut

Batch #4492

Sample Number	BLK	LCS	RWMS ~~SS~~ aut 5.14.02	RWMSD ~~SSD~~ aut 5.14.02	2204029 -2MS	-3SD	-1	-4	-5	-6
Sample Date					5.9.02					
Description		DI H2O			CH2HHill 062CEF43 2NMS	2NSD	2N	6N	7N	9N
Odor					Slight fuel	slight fuel	None	Sewage	None	None
Color					light yellow			~~Amber~~ Yellow	Brown	Brown
Sed.					None			~~Very slight~~ None aut 5.14.02	~~Very slight~~ None aut 5.14.02	None
Vol./ Wt.	1000				898	952	920	950	952	935
pH	7									
JB 5/14/02 Surrogate ID	SV4867b	1ml@20Mg/mL			SV5039c	1ml@20Mg/ml				
Spike ID	NA	SV4990A 1mL@10Mg/mL					NA			
ISTD	NA	~~SV4990A 1mL@10ug/ml~~ aut 5/14/02			NA					
Final Solvent	ACN									
Final Vol. (ml)	1.0mL									
Date Completed/By:	5/14/02 aut									
Remarks	NA								Medium Emulsion	
Stock Loc. Box/Row	TB NA				TB 1					
Spike Witness		JB								

HA 5-14-02

Base Lot # NA
Acid Lot# NA
Extraction Lot # DCM: X06E27(05464F) J.T.B

Final Solvent Lot # ACN: CD840 B+J

Bath Temp 49°C

PEL LABORATORIES, INC.

3510 / 8310

DATE: 5/14/02 cut

Batch #4492

Sample Number	2204029 -7	-8	-9	-10	2204036 -1	-2	-3	-4	-5	-6
Sample Date	5.9.02				5.10.02					
Description	CH2MHill 062CEF433 3N	8N	062DUPQ 20249	062EQBQ 20249	PSI MW -7	-2D	-4	-1	-9	-3
Odor	None	None	slight sewage	None						
Color	slight yellow	brown tint	slight yellow		Yellow	slight yellow				brown tint
Sed.	None					brown sediment	slight	None		
Vol./ Wt.	948	950	954	900	955	980	1000	960	965	1000
pH	7									
Surrogate ID (5/14/02)	SV5039C	1ml@20µg/mL								
Spike ID	NA									
ISTD	NA									
Final Solvent	ACN									
Final Vol. (ml)	1.0mL									
Date Completed/By:	5/14/02 cut									
Remarks	Medium Emulsion							Medium Emulsion		
Stock Loc. Box/Row	B, 5	/	/	/	B, 6	/	/	/	/	/
Spike Witness										

HN 5-14-02

Base Lot # NA

Acid Lot# NA

Extraction Lot # DCM:X06E27(05464F) J.T.B.

Final Solvent Lot # ACN:CD840 B+J

Bath Temp 49°C

3510 8310

5/13/02 ast

Batch #4492

Sample Number	2204028 -3	→ -7	2204044 -1							
Sample Date	5.9.02	5.9.02	5.10.02							
Description	CH2MHill CMGOO 3	CH2MHill → 7EB1	CH2MHill 16PREEB01							
Odor	slight solvent	None	None							
Color	yellow tint	clear →								
Sed.	None →									
Vol./ Wt.	915	922	960							
pH	7 →									
Surrogate ID (JB 5/14/02)	SV5039C	1ml@2ng/ml →								
Spike ID	NA →									
ISTD	NA →									
Final Solvent	ACN →									
Final Vol. (ml)	1.0mL →									
Date Completed/By:	5/13/02 ast →									
Remarks										
Stock Loc. Box/Row	B, 6 →	1	1	1	1	1	1	1	1	1
Spike Witness										

Base Lot # NA
Acid Lot# NA
Extraction Lot # DCM: X06E27 J.T.B.

Final Solvent Lot # ACN: CD840 B+J

HN 5-14-02

Bath Temp 49°C

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 5033	5/13/02	LM	DRO CAL STD 4	Lot: Man:	Rec'd: Exp:	DCM V&E05E07 B+S	100uL 50uL	1mL	500ug/mL	
SV 5034			DRO CAL STD 3	Lot: Man:	Rec'd: Exp:		30uL 50uL	1mL	100ug/mL	
SV 5035			DRO CAL STD 2	Lot: Man:	Rec'd: Exp:		10 uL 50 uL	1mL	50ug/mL	
SV 5036			DRO CAL STD 1	Lot: Man:	Rec'd: Exp:		2 uL 50 uL	1mL	10ug/mL	
SV 5037			DRO SCC CAL STD	Lot: Man:	Rec'd: Exp:			1mL	500ug/mL	
SV 5038	5/13/02	SGA	8330 CCV	Lot: SV-8314 Man:	Rec'd: Exp: —	$CaCl_2$	500ul 10ul	1ml	2.5ug/ml	
SV 5039	5/14/02	SGA	8310 WORKING SURR	Lot: SV-1835D Man:	Rec'd: Exp:	ACN CD640	1mL	100mL	20 ug/mL	
SV 5040	5/14/02	SGA	8081 Internal Standard	Lot: SV1187C Man: Ultra Sc.	Rec'd: Exp: 9/2003	Hexane V44E02	50ul	10ml	25ug/ml	
SV 5041	5/14/02	SGA	Cal 8 8081	Lot: SV4414 SV5040 Man:	Rec'd: Exp: —	Hexane V44E02	75ul 5ul	0.5ml	0.15ug/ml	

SV #	Date prpd.	By	Description	Origin-Lot No. Manufacturer	Date stock rec'd Expiration Date	Diluent-Lot No.	Amount for Dil.	Final Vol.	Final Conc.	Discarded
SV4865 A → E	4/25/02	[illegible]	[illegible]	Lot: [illegible] Man: [illegible]	Rec'd: 4/26/02 Exp: 5/24/03	—	—	1 ml	150 ug/ml	
SV 4866	4/25/02	SGA	8330 Water MDL Spike	Lot: SV4354 SV4766A SV4767A Man:	Rec'd: — Exp:	Methanol	100 ul 400 ul 400 ul	10 ml	1 ug/ml 40 ug/ml 40 ug/ml	
SV4867	4/26/02	JMJ	8310 Working surrogate	Lot: SV 4835 A Man:	Rec'd: Exp:	ACN	1 mL	100 ml	20 ug/mL	
SV4868	4/26/02	CK	8081 Cal 8	Lot: SV4414 SV4188 Man:	Rec'd: Exp:	Bx J HEX V33E49	150 µL 10 µL	1 mL ~~.15 ug~~	0.15 ug/mL	
SV4869			8081 Cal 7	Lot: Man:	Rec'd: Exp:		100 µL 10 µL	1 mL	0.10 ug/mL	
SV4870			8081 Cal 6	Lot: Man:	Rec'd: Exp:		80 µL 10 µL		0.08 ug/mL	
SV4871			8081 Cal 5	Lot: Man:	Rec'd: Exp:		60 µL 10 µL		0.06 ug/mL	
SV4872			8081 Cal 4	Lot: Man:	Rec'd: Exp:		40 µL 10 µL		0.04 ug/mL	
SV4873			8081 Cal 3	Lot: Man:	Rec'd: Exp:		20 µL 10 µL		0.02 ug/mL	

SV #	Date prpd.	By	Description	Origin-Lot No. / Manufacturer	Date stock rec'd / Expiration Date	Diluent-Lot No.	Amount for Dil.			
SV4832			AccuStandard 125 Market St. New Haven, CT — M-507C Lot: B1090226-1A Exp: Mar 29,2004 1.0 mg/mL in MtBE	Man:	Exp: Date opened:	STORAGE AMBIENT				
SV4833			AccuStandard 125 Market St. New Haven, CT — M-507D Lot: B1090183-2B Exp: Mar 29,2004 1.0 mg/mL in MtBE	Man:	Exp: Date opened:	STORAGE AMBIENT				
SV4834			AccuStandard 125 Market St. New Haven, CT — M-507E Lot: A9080196-3C Exp: Feb 14,2004 1.0 mg/mL in MtBE		Date opened:	STORAGE AMBIENT				
SV4835 A->H	4/17/02	MT	ULTRA SCIENTIFIC 250 Smith St., North Kingstown, RI 02852 401-294-9400 — p-Terphenyl-d14 Solution — 2000 ug/mL in Methylene Chloride — 1 mL — ATS-160 — Lot No. S-1237 — Exp. Date 11/2005 — Man: — Exp:							
	—									
SV4836 A->L	4/17/02	VF	ULTRA SCIENTIFIC 250 Smith St., North Kingstown, RI 02852 401-294-9400 — TRPH Surrogate Standard (FL) — 2000 ug/mL in Carbon Disulfide — 1 mL — IST-680 — Lot No. T-0130 — Exp. Date 02/2007 — Man: — Exp:							
SV 4837 A-C	4/17/02	JM	8310 working surrogate	Man: Lot: SV 4340 G	Exp: Rec'd:	ACN CD84U	1 mL	100 mL	20 ug/mL	
				Man: Lot:	Exp: Rec'd:					

LAB USE ONLY

LAB USE ONLY

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
SV4986	5/8/02	LM	FL PRO Working Surr C-39	Lot: 4818 DE 4847 FG Man:	Rec'd: Exp:	DCM BIJ XUSE07	5.0mL	50mL	600ug/mL	
SV4987 A-D	[illegible]	[illegible]	ULTRA SCIENTIFIC 250 Smith St., North Kingstown, RI 02852 401-294-9400 Toxaphene Solution 100 ug/mL in Hexane PP-271 1 mL Lot No. P-0965 Exp. Date 07/2003 Man:		Rec'd: Exp:					
[illegible] A-D	[illegible]	[illegible]								
[illegible] A-D	[illegible]	[illegible]	ULTRA SCIENTIFIC 250 Smith St., North Kingstown, RI 02852 401-294-9400 Triphenyl Phosphate Solution 500 ug/mL in Methyl tert-Butyl Ether PPS-110 1 mL Lot No. M-428Z Exp. Date 02/2004 Man:		Exp:					
SV4989 A → E	5/8/02	AP	8270 SURROGATE	Lot: 102795 Man: EE	Rec'd: 5/8/02 Exp: 11/18/2003					
SV4989 F - H	5/8/02	AP	8270 SURROGATE	Lot: 102503 Man: EE	Rec'd: 5/8/02 Exp: 3/6/2003					
SV4989 I - J	5/8/02	AP	8270 SURROGATE	Lot: 102595 Man: EE	Rec'd: 5/8/02 Exp: 3/11/2003					
SV 4990 A-C	5/9/02	[illegible]	8310 Working Spike	Lot: SV3407F SV4108B SV4718C Man:	Rec'd: Exp:	ACN	.5 mL	100 mL	10 ug/mL	A B C

LAB USE ONLY

LAB USE ONLY

Organic Standards Log

SV #	Date prpd.	By	Description	Origin-Lot No. Manufacturer	Date stock rec'd Expiration Date	Diluent-Lot No.	Amount for Dil.	Final Vol.	Final Conc.	Discarded
SV4713	3/22/02	LK	8082 Cal 1	Lot: Sv 3989 Man:	Rec'd: — Exp:	Bt) Hex V33e49	5µL	1mL	0.05 ug/mL	
SV4714	↓	↓	8082 20	Lot: Sv4075 Man:	Rec'd: — Exp:		1mL	1mL	10 ug/mL	
SV 4715 A,B,C	3/25/02	JDD	OTP working surr.	Lot: [illegible] Man:	Rec'd: — Exp:	Dry XO EHT	5 mL	[illegible]	[illegible]	
SV 4716 A,B	↓	↓	C-39 working surr.	Lot: SV 4092 70 72 Man: 73-81	Rec'd: — Exp:	↓	15 mL	50 mL	600 ug/mL	
SV4717 A,B,C,D	3/25/02	JDD	1-M Naphth Stk	Lot: B0090131-1A Man: AccuStd	Rec'd: 3/25/02 Exp: 11/1/02				2.0 mg/mL	
SV4718 A,B,C,D	3/25/02	JDD	2-M Naph Stk	Lot: B0040334 Man: AccuStd	Rec'd: 3/25/02 Exp: 4/20/05				2.0 mg/mL	
SV4719	3/25/02	LK	1221 intermediate	Lot: Sv 2545 D Man:	Rec'd: 9/25/02 Exp:	[illegible]	1mL	10mL	10 ug/mL	
SV4720	3/25/02	LK	1221/1254 Cal 6	Lot: Sv4719 Sv4726 Man:	Rec'd: — Exp: 11/25/02	↓	250µL 250µL	1mL	2.5 ug/mL	
SV4721	↓	↓	1221/1254 Cal 5	Lot: Sv4719 Sv4726 Man:	Rec'd: — Exp: 11/25/02	↓	200µL 200µL	↓	2.0 ug/mL	

Organic St[illegible]ards 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
SV3407E	11/13/01 XP		AccuStandard, Inc. 125 Market Street • New Haven, CT 06513 Phone 800-442-5290 • 203-786-5290 S-518A 1-Methylnaphthalene 2.0 mg/mL in MeOH Lot: B0090131-1A Exp. Oct 1,2002 1 mL POISON FOR LABORATORY USE ONLY STORAGE AMBIENT			—	1 ml	2000 ug/ml	
SV3407F		XP		Man:	Exp:		—			
SV3407G				Lot: Man:	Rec'd: Exp:		—			
SV3407H				Lot: Man:	Rec'd: Exp:		—			
SV3408A	11/13/01 XP	XP	F1052S EXP:03/03 5ml CHEM SERVICE Retene Solution 100ug/ml in Toluene Lot: 270-143B FLAMMABLE-HARMFUL-IRRITANT WARNING!: READ your MSDS [illegible]			—	—	5 ml	100 ug/ml	
SV3408B						—	—			
[illegible]	[illegible]	[illegible]	[illegible]	Lot: SV2691B Man:	Rec'd: Exp:	[illegible]	[illegible]	5	[illegible]	12/20/01
[illegible]	[illegible]	[illegible]	[illegible]	Lot: [illegible] Man:	Rec'd: Exp:		[illegible]	[illegible]	[illegible]	
[illegible]			[illegible]	Lot: Man:	Rec'd: Exp:		[illegible]	[illegible]	[illegible]	

Organic Standards Log

SV #	Date prpd.	By	Description	Origin-Lot No. / Manufacturer	Date stock rec'd / Expiration Date	Diluent-Lot No.	Amount for Dil.	Final Vol.	Final Conc.	Discarded
SV4107A	2/4/02	JDD	Cat.#31011 SV Calibration Mix #5 Lot# A020543 Expires:10/04 Storage:Refrigerate 2000 ug/ml each in methylene chloride FOR LABORATORY USE ONLY Restek Corporation • 110 Benner Circle • Bellefonte, PA 16823	Lot: Man:	Rec'd: Exp:			1 ml	2000ug/ml	
SV4107B	2/4/02	JDD	Cat.#31011 SV Calibration Mix #5 Lot# A020543 Expires:10/04 Storage:Refrigerate 2000 ug/ml each in methylene chloride FOR LABORATORY USE ONLY Restek Corporation • 110 Benner Circle • Bellefonte, PA 16823	Lot: Man:	Rec'd: Exp:		—	1 ml	2000ug/ml	
SV4108 A,B,C	2/4/02	JDD	ULTRA SCIENTIFIC 250 Smith St., North Kingstown, RI 02852 401-294-9400	Lot: Man:	Rec'd: Exp:		—	1 ml	2000ug/ml	
SV4109 ABCDEFGH			ULTRA SCIENTIFIC 250 Smith St., North Kingstown, RI 02852 401-294-9400	Lot: Man:	Rec'd: Exp:					2/5/02
SV4110 ABCDEFGH			LAB USE ONLY	Lot: Man:	Rec'd: Exp:					
SV4111	2/5/02	SGA	Lot No. FLPRO Cal7	SV3767D SV3766A Man: SV4683	Exp. Date Exp:	DCM V42466	200ul 25ul 300ul	1ml	400ug/ml	
SV4112	2/5/02	SGA	FLPRO Cal6	Lot: Man:	Rec'd: Exp:		150ul 25ul 300ul		300ug/ml	
SV4113	2/5/02	SGA	FLPRO Cal5	Lot: Man:	Rec'd: Exp:		75ul 25ul 300ul		150ug/ml	
SV4114	2/5/02	SGA	FLPRO Cal4	Lot: Man:	Rec'd: Exp:		50ul 25ul 300ul		100ug/ml	

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
[illegible]	[illegible]	[illegible]	[illegible]	Lot: [illegible] Man:	Rec'd: — Exp:	[illegible]	[illegible]	1 ml	[illegible]	
[illegible]			[illegible]	Lot: [illegible] Man:	Rec'd: — Exp:		[illegible]	1 ml	[illegible]	
SV4939	5/1/02	TS	8310 CAL. STD [TOP STD]	Lot: MIX#5 SV4108A 1-M SV3401G 2-M SV4718B ATS-160 SV855B Man:	Rec'd: 2000ug/ML 2000ug/ML 2000ug/ML 2000ug/ML Exp:	ALN B&J LD840	250ul EA	5 ML	100ug/ML	
SV4940	5/1/02	TS	8310 CAL STD @ 30PPB	Lot: SV4939 Man:	Rec'd: Exp:		1.5 ML		30ug/ML	
SV4941	5/1/02	TS	8310 CAL. STD @ 20PPB	Lot: Man:	Rec'd: Exp:		1 ML		20ug/ML	
SV4942	5/1/02	TS	8310 CAL. STD. @ ~~10~~ 15 PPB TS 5/1/02	Lot: Man:	Rec'd: Exp:		750ul		15ug/ML	
SV4943	5/1/02	TS	8310 CAL. STD. @ 10PPB	Lot: Man:	Rec'd: Exp:		500ul		10ug/ML	
SV4944	5/1/02	TS	8310 CAL. STD. @ 5PPB	Lot: Man:	Rec'd: Exp:		250ul		5ug/ML	
SV4945	5/1/02	TS	8310 CAL. STD @ ~~1~~ 2 PPB TS 5/1/02	Lot: Man:	Rec'd: Exp:		50ul		1ug/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
SV4832			AccuStandard 125 Market St. New Haven, CT M-507C Lot: B1090226-1A Exp. Mar 2[illegible],2004 1.0 mg/mL in MtBE	Man:	Date opened: Exp:	STORAGE AMBIENT				
SV4833			AccuStandard 125 Market St. New Haven, CT M-507D Lot: B1090183-2B Exp: Mar 2[illegible],2004 1.0 mg/mL in MtBE	Man:	Date opened: Exp:	STORAGE AMBIENT				
SV4834			AccuStandard 125 Market St. New Haven, CT M-507E Lot: A9080196-3C Exp: Feb 14,2004 1.0 mg/mL in MtBE		Date opened:	STORAGE AMBIENT				
SV4835 A-H	[illegible]	[illegible]	ULTRA SCIENTIFIC 250 Smith St., North Kingstown, RI 02852 401-294-9400 p-Terphenyl-d14 Solution 2000 ug/mL in Methylene Chloride ATS-180 1 mL Lot No. S-1237 Exp. Date 11/2005 Man: Exp:			LAB USE ONLY				
SV4836 A-L	[illegible]	[illegible]	ULTRA SCIENTIFIC 250 Smith St., North Kingstown, RI 02852 401-294-9400 TRPH Surrogate Standard (FL) 2000 ug/mL in Carbon Disulfide IST-680 1 mL Lot No. T-0130 Exp. Date 02/2007 Man: Exp:			LAB USE ONLY				
SV 4837 A-C	[illegible]	[illegible]	8310 working surrogate	Lot: SV4340 G Man:	Rec'd: Exp:	ACN CD840	1 mL	100 mL	20 ug/mL	
				Lot: Man:	Rec'd: Exp:					

Organic Standards Log

SV #	Date prpd.	By	Description	Origin-Lot No. Manufacturer	Date stock rec'd Expiration Date	Diluent-Lot No.	Amount for Dil.	Final Vol.	Final Conc.	Discarded
SV4713	3/22/02	LK	8082 Cal 1	Lot: Sv 3989 Man:	Rec'd: — Exp:	BtJ Hex V33E49	5µL	1mL	0.05 ug/mL	
SV4714	↓	↓	8082 20	Lot: Sv4075 Man:	Rec'd: — Exp:		1mL	1mL	10 ug/mL	
SV 4715 A,B,C	[illegible]	↓	[illegible]	Lot: [illegible] Man:	Rec'd: — Exp:	[illegible]	[illegible]	[illegible]	[illegible]	
SV 4716 A,B	↓	↓	C-39 Working surr.	Lot: SV 4097 70 72 Man: 73-81	Rec'd: — Exp:	↓	15 mL	50 mL	600 ug/mL	
SV4717 A,B,C D	3/25/02	JDD	1-M Naphth. Stk	Lot: B0090131-1A Man: AccuStd	Rec'd: 3/25/02 Exp: 11/1/02				2.0 mg/ml	
SV4718 A,B,C,D	3/25/02	JDD	2-M Naph Stk	Lot: B0XX/033Y Man: Accustd	Rec'd: 3/25/02 Exp: 4/20/05				2.0 mg/ml	
SV4719	3/25/02	LK	1221 Intermediate	Lot: Sv 2845 D Man:	Rec'd: 9/25/02 Exp:	[illegible] V33E49	1mL	10mL	10 ug/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 ug/mL	
SV4721	↓	↓	1221/1254 Cal 5	Lot: Sv4719 Sv4726 Man:	Rec'd: — Exp: 11/25/02	↓	200µL 200µL	↓	2.0 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
[illegible]	[illegible]	[illegible]	Cat.#31011 SV Calibration Mix #5 Lot# A020543 Expires:10/04 Storage:Refrigerate 2000 ug/ml each in methylene chloride FOR LABORATORY USE ONLY Restek Corporation • 110 Benner Circle • Bellefonte, PA 16823	Lot: / Man:	Rec'd: / Exp:			[illegible]	[illegible]	
[illegible]	↓	↓					—	↓	↓	
SV4108 A,B,C	2/4/02	JDD	Cat.#31011 SV Calibration Mix #5 Lot# A020543 Expires:10/04 Storage:Refrigerate 2000 ug/ml each in methylene chloride SV4108 A,B,C FOR LABORATORY USE ONLY Restek Corporation • 110 Benner Circle • Bellefonte, PA 16823				—	1 mL	2000ug/mL	
SV4109 ABCDEFGH			ULTRA SCIENTIFIC 250 Smith St., North Kingstown, RI 02852 401-294-9400							2/5/02
SV4110 ABCDEFGIL			ULTRA SCIENTIFIC 250 Smith St., North Kingstown, RI 02852 401-294-9400							
SV4111	2/5/02	SGA	Lot No. FLPRO Cal7	SV3761D SV3766A Man: SV4083	Exp. Date — Exp:	DCM V424666	200ul 25ul 300ul	1ml	400ug/ml	
SV4112	2/5/02	SGA	FLPRO Cal6	Lot: Man:	Rec'd: — Exp:		150ul 25ul 300ul	↓	300ug/ml	
SV4113	2/5/02	SGA	FLPRO Cal5	Lot: Man:	Rec'd: Exp:		75ul 25ul 300ul	↓	150ug/ml	
SV4114	2/5/02	SGA	FLPRO Cal4	Lot: Man:	Rec'd: — Exp:	↓	50ul 25ul 300ul	↓	100ug/ml	

LAB USE ONLY

LAB USE ONLY

Organic St. ards 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
SV3407 E	11/13/01		AccuStandard, Inc. 125 Market Street • New Haven, CT 06513 Phone 800-442-5290 • 203-786-5290 FOR LABORATORY USE ONLY S-518A 1-Methylnaphthalene 2.0 mg/mL in MeOH Lot: B0090131-1A Exp. Oct 1.2002 1 mL STORAGE AMBIENT POISON			—	1 ml	2000 ug/ml	
SV3407 F				Man:	Exp:		—			
SV3407 G				Lot: Man:	Rec'd: Exp:		—			
SV3407 H	✓	✓	✓	Lot: Man: ✓	Rec'd: Exp: ✓		—	✓	✓	
SV3408A	11/13/01	XP	F1052S EXP:03/03 5ml CHEM SERVICE Retene Solution 100ug/ml in Toluene Lot: 270-143B FLAMMABLE-HARMFUL-IRRITANT			—	—	5ml	100 ug/ml	
SV3408B	✓	✓				—	—	✓	✓	
				Lot: SV2691B Man:	Rec'd: Exp:			5		
				Lot: Man:	Rec'd: Exp:					
				Lot: Man:	Rec'd: Exp:					

Organic Standards Log

SV #	Date prpd.	By	Description	Origin-Lot No. Manufacturer	Date stock rec'd Expiration Date	Diluent-Lot No.	Amount for Dil.	Final Vol.	Final Conc.	Discarded
SV4677	3/21/02	JDD	0.5 Cal Std	Lot: Top Std Man: SV4670	Rec'd: Exp:	ACN	25ul	5ml	.5ug/ml	
SV4678			0.2 Cal Std	Lot: Man:	Rec'd: Exp:		10ul		.2ug/ml	
SV4679	JMD Rec'd 3/21		Aroclor 1221 Solution	Lot: ULTRA S1400 Man:	Rec'd: — Exp:	—	—	—	100 ug/mL	
SV4680 A-D	JMD 3/22/02	JMD	TRPH STD 2°	Lot: S1538 Ultra Man:	Rec'd: — Exp:	—	—	—	500 ug/mL	A 4/30/02
SV4681	JDD 3/22/02	JDD	8310 Cal Std. Top Std	Lot: PAH#5 SV4051B 1-m SV3407H 2-m SV3764A Man: Ptr SV4340	Rec'd: 2000 ug/ml 2000 1000 2000 Exp:	ACN	250 ul 250 500 250	5 ml	1000ug/ml	
SV4682			SV4681 Cal Std 80 ug/ml	Lot: Man:	Rec'd: Exp:		1.5ml		30	
SV4683			50	Lot: Man:	Rec'd: Exp:		1 ml		20	
SV4684			15	Lot: Man:	Rec'd: Exp:		750ul		15	
SV4685			10	Lot: Man:	Rec'd: Exp:		500ul		10	

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
SV4686	3/22	[illegible]	8310 Cal Std 5ug/ml	Lot: Man:	Rec'd: Exp:	ACN	250µl	5ml	5	
SV4687	3/22/02		1	Lot: Man:	Rec'd: Exp:		50µl		1	
SV4688			0.5	Lot: Man:	Rec'd: Exp:		25µl		0.5	
SV4689			0.2	Lot: Man:	Rec'd: Exp:		10µl		0.2	
SV4690	3/22/02	LK	8141 Intermed. STD	Lot: SV 3638A SV 3237C SV 3634A SV 3797C Man:	Rec'd: — Exp:	BtS Hex U33E49	250µL 250µL 100µL 500µL	5mL ~~10mL~~	10ug/mL	
SV4691			8141 CAL 6	Lot: SV4690 SV 2840C Man:	Rec'd: — Exp:		1mL 10µL	1mL	10ug/mL	
SV4692			8141 CAL 5	Lot: Man:	Rec'd: — Exp:		800µL 10µL		8ug/mL	
SV4693			8141 Cal 4	Lot: Man:	Rec'd: — Exp:		500µL 10µL		5ug/mL	
SV4694			8141 Cal 3	Lot: Man:	Rec'd: — Exp:		200µL 10µL		2ug/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 4337	3/5/02	JMD	FL PRO COL	Lot: Man:	Rec'd: Exp:	DCM X04E17	1 mL 25 mL 300 mL	1 mL	2 ug/mL	
SV 4338	✓	✓	FL PRO SEC CCV	Lot: Man:	Rec'd: Exp:	↓	300 mL 25 mL 300 mL	1 mL	150 ug/mL	
SV 4339	3/5/02	JMD	C 30 INTERMEDIATE	Lot: SV 4007 - 37.5 SV 3899 - 12 SV 3791 - 12 Man:	Rec'd: Exp:	↓	3 mL	6 mL	1000 ug/mL	
SV 4340 A-G	3/6	JDD	8310 ~~Antimonial~~ Surr. P-Ter	Lot: S-1237 2000ug/ml Man: Ultra	Rec'd: 3/6/02 Exp: 11/2005					
SV4341 A.B,C	3/6	JDD	8310 ~~Surr~~ Carbazole IS	Lot: L1301709 2000ug/ml Man: Supelco	Rec'd: 3/5/02 Exp: 12/2004					
SV 4342 A-D				Lot: Man:	Rec'd: Exp:					
SV4343 A->D	3/6/02	VP		Lot:	Rec'd:		—	1 ml	2000 ug/ml	
	—	—					—	↓	↓	
SV4344	3/7/02	JDD	8310 Sec Std	Lot: ~~SV 3355~~ PAH SCC ~~3386~~ 1M Sec ~~3565~~ P-Ter 4607 Carb Man:	Rec'd: 2000 ug/ml 1000 ug/ml 2000 ug/ml 2000 ug/ml Exp:	75 ul 75 ul 37.5 ul ~~37.5 ul~~ 25 ul	SV3387 SV3760 SV4340 SV~~4607~~ 4076	5 ml	15 ug/ml	

ULTRA SCIENTIFIC 250 Smith St., North Kingstown, RI 02852 401-294-9400

Method 1005 Window Standard

200 ug/mL each in n-Pentane

1 mL

STX-100

Lot No. R-0135 Exp. Date 03/2003

LAB USE ONLY

ULTRA SCIENTIFIC 250 Smith St., North Kingstown, R... 401-294-9400

Phenols Mixture

2000 ug/mL each in Methylene Chloride

1 mL

US-107N

Lot No. S-0737 Exp. Date 07/2004

LAB USE ONLY

JDD 3/7/02

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.	Discarded
SV4072	1/30/02	LK	8081 Toxaphene	Lot: SV3125 Man: SV 3704	Rec'd: — Exp:	BHD Hex CC337	100µL 10µL	1mL	1.0 ug/mL	
SV4073	↓	↓	8080 Chlordane	Lot: SV3126 Man: SV 3704	Rec'd: — Exp:	↓	100µL 10µL	1mL	1.0 ug/mL	
SV4074	1/30/02	JMD	FL PRO CAL 6	Lot: SV 3908C SV 3891I SV 3671 Man:	Rec'd: — Exp:	DCM 9624-3	25 uL 150 uL 300 uL	1mL	300 ug/mL	
SV4075	1/30/02	LK	8082 1016/1260 2°	Lot: SV 1184C SV 1185E Man:	Rec'd: 3-1-02 Exp:	HEX CC337	10µL 10µL	10 mL	1.0 ug/mL	
SV4076	1/31	RR JDD	8310 Carb Stk	Lot: SV3381C Man:	Rec'd: Exp:	ACN	400 ug 1200 ul DCM	1600 ul	500 ug/ml	
SV4077	1/31/02	JMD	8330 CCV	Lot: SV3814 (8330 STOK STD 5) Man:	Rec'd: — Exp:	CaCl2 Sol	500 uL	1mL	2.5 ug/mL	
SV4078	1/31/02	CSG	8082 CCV	Lot: SV3989 Man:	Rec'd: Exp:	BHD Hexane CC337	100 ul	1 ml	1.0 ug/ml	
SV4079	2/1/02	[illegible]	8270 Custom LCS TCL Spike	Lot: Q-1141A 1013002-38 Man: NSI	Rec'd: 1/31/02 Exp: 2/30/03	—	—	25 ml.	160 ug/ml	
				Lot: Man:	Rec'd: Exp:					

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
SV 3761 A-C	1/3/02	JMD	2-Methylnaphthal.	Lot: A01737 Man: Restek	Exp: 7/04				1000 ug/mL		
SV 3762 A-D	1/3/02	JMD	Methylated Chlorinated Herbicides Mix	Lot: M-3807 Man: Ultra	Exp: 7/04				20 ug/mL		
SV 3763 A-E	1/3/02	JMD	Aroclor 1242	Lot: B107154 Man: AccuStd.	Exp: 12/28/04				1000 ug/mL		
SV3764	1/3/02	JMD	Toxaphene Mix	Lot: A03155 Man: Restek	Exp: 10/05				1000 ug/mL		
SV3765A	1/3/02	SGA	O-Terphenyl	Lot: W-1341-01 Man: NSI	Exp: 1/3/03	—	—	—	2000 ug/ml	—	
SV3765B				Lot: Man:	Exp:						
SV3765C				Lot: Man:	Exp:						
SV3765D				Lot: Man:	Exp:						
SV3766A				Lot: Man:	Exp:						

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	KP	Custom 1209 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	KP					–	–	1000 ug/ml	–	
SV3759B				Man:			–	–		–	
SV3759C				Lot: Man:	Exp:		–	–		–	
SV3759D				Lot: Man:	Exp:		–	–		–	
SV3760 A & B	1/3/02	JUD	1-Methylnaphth.	Lot: A020779 Man: Rostek	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
3,4-Dichlorophenol
1.0 mg/mL in MeOH
Lot: B1060430
Exp. Dec 28,2004

1 mL

POISON

FOR LABORATORY USE ONLY

STORAGE AMBIENT

Organic St. ards 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
SV3403D	11/7/01	KP	SEMI VOLATILE INTERNAL STANDARD	Lot: C-1574-10 Man: NSI	Rec'd: 11/9/01 Exp: 12/02	—	—	—	2000 ug/ml.	
SV3404	11/10/01	CG	PEVAL	Lot: SV13666 Man:	Rec'd: Exp:	B&J Hexane CB755	50ml	1ml	—	
SV3405	11/13/01		NOTEBOOK INSERT LABEL EPA CLP SOW OLMO4 Semi-volatile Mix 47514-U Lot: LA98038 EXP: MAY/2003 STORAGE: REFRIGERATE 1 x 1ml SUPELCO Supelco Park • Bellefonte, PA 16823-0048 USA • Phone 814-359-3441 DATE RECEIVED: 11/13/01			—	—	1ml.	2000 ug/ml.	
—			NOTEBOOK INSERT LABEL Pyridine 48305-U Lot: LA97136 EXP: APR/2004 STORAGE: ROOM TEMP. 1 x 1ml SUPELCO Supelco Park • Bellefonte, PA 16823-0048 USA • Phone 814-359-3441 DATE RECEIVED: 11/13/01							
SV3406						—	—	1ml	2000 ug/ml.	
SV3407A		KP	AccuStandard, Inc. 125 Market Street • New Haven, CT 06513 Phone 800-442-5290 • 203-786-5290 S-518A 1-Methylnaphthalene 2.0 mg/mL in MeOH Lot: B0090131-1A Exp. Oct 1,2002 1 mL FOR LABORATORY USE ONLY POISON STORAGE AMBIENT	Lot: Man:	Rec'd: Exp:	—	—	1ml	2000 ug/ml	
SV3407B				Man:	Exp:					
SV3407C			—	Lot: Man:	Rec'd: Exp:	—	—			
SV3407D	✓	✓	—	Lot: Man:	Rec'd: Exp:	—	—	✓		

Organic St[illegible]ards 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
SV 3381 (A-C)	Rec'd 10/12/01 11/5/01	Rec'd JMD	CARBAZOLE 8310 INTERNAL STD	Lot: LA-98547 Man: SUPELCO	Rec'd: 10/12/01 (Rec'd) Exp: 10/12/02			~~2000 ug/mL~~ 1 mL	2000 ug/mL	
SV 3382 (A-C)	Rec'd [illegible] 11/8/01	Rec'd JMD	1 Methylnaphthalene (8310)	Lot: B0090131 Man: Accu Std	Rec'd: 8/20/01 (Rec'd) Exp: 9/30/02			~~2000 ug/mL~~ 1 mL	2000 ug/mL	
SV 3383 (A-C)	~~[illegible]~~ 11/8/01	JMD	2 Methylnaphthalene (8310)	Lot: B0040334 Man: Accu Std.	Rec'd: 8/20/01 (Rec'd) Exp: 9/30/02			1 mL	2000 ug/mL	
SV 3384 (A-C)	11/8/01	JMD	SV CALIBRATION MIX #5 (8310)	Lot: A0[illegible] Man: Restek	Rec'd: 8/27/01 (Rec'd) Exp: 6/04			1 mL	2000 ug/mL each	
SV 3385 (A-B)	11/8/01	JMD	MA EPH AROMATIC HYDROCARBON STD (8310)	Lot: A010536 Man: Restek	Rec'd: 8/19/00 (Rec'd) Exp: 7/05			1 mL	1000 ug/mL each	
SV 3386	11/8/01	JMD	1 Methylnaphthalene Std (8310)	Lot: A018405 Man: Restek	Rec'd: 8/21/01 (Rec'd) Exp: 11/05			1 mL	1000 ug/mL	
SV 3387	11/8/01	JMD	MA EPH AROMATIC HYDROCARBON STD (8310)	Lot: A018328 Man: Restek	Rec'd: 8/21/01 (Rec'd) Exp: 3/04			1 mL	1000 ug/mL	
SV3388A	11/9/01	CG		Lot:	Rec'd					
SV3388B	11/9/01	CG		Man:						11-14-01

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

Organic Standards Log

SV #	Date prpd.	By	Description	Origin-Lot No. Manufacturer	Date stock rec'd Expiration Date	Diluent-Lot No.	Amount for Dil.	Final Vol.	Final Conc.	Discarded
SV 4050	1/29/02	[illegible]	[illegible] 1 std	Lot: 4044 Man:	Rec'd: Exp: 072502	ACN CE052	0.050	5.0	1 ug/mL	
4057			[illegible]	Lot: Man:	Rec'd: Exp:		0.010		0.2 ug/mL	
SV4051 A, B, C	Rec'd 1/29/02	JDD	SV Calibration Mix #5 A020543 2000ug/mL	Lot: A020543 Man: 10/04	Rec'd: 1/29/02 Exp: 10/04					
SV4052 A, B	Rec'd 1/29/02	JDD	Aromatic Hydrocarbon Mix Stock 1000ug/mL	Lot: A020919 Man: 11/04	Rec'd: 1/29/02 Exp: 11/04					
[illegible]	1/29/02	JMD	FL PRO CAL 7	Lot: [illegible] SV3891 I OTP SV3908C C39 SV 3621 Man:	Rec'd: — Exp:	DCM 9624-03	200 uL 25 uL 300 uL	1 mL	400 ug/mL	
[illegible]			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 [illegible]			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 [illegible]			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 [illegible]			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	

L204220 [illegible] 4/23/02 4/22/02

Vial	Sample		Method
21	SV4344	CCV1A	8310 SE
1	SV4689	PT25 STD	
2	SV4687	1 STD	
3	SV4686	5 STD	
4	SV4685	10 STD	
5	SV4684	15 STD	
6	SV4683		20 STD
7	SV4~~682~~ 4682 [illegible] 4/23/02		30 STD
21	SV4344	CCV1	
1	422 SBLK		
2	ID-1	Initial demos	
3	ID-2	for Linda Crowley	
4	ID-3		
5	ID-4		
21	SV4344	CCV2	
21	Shut		Shut

[illegible]
4/23/02

PEL Laboratories, Inc.

Data file : \\SVHPLC\ee\chem\slc02.i\calew423.b\PT2STD.D
Lab Smp Id: SV4689 Client Smp ID: PT2STD
Inj Date : 22-APR-2002 12:05
Operator : dent Inst ID: slc02.i
Smp Info : SV4689
Misc Info :
Comment :
Method : \\Svhplc\ee\chem\slc02.i\calew423.b\8310AE.m
Meth Date : 17-May-2002 13:22 tscott Quant Type: ESTD
Cal Date : 22-APR-2002 15:32 Cal File: 30STD.D
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.04 Sample Matrix: WATER
Processing Host: SVHPLC

Concentration Formula: Amt * DF * 1/(Vo/1000)*Vt

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume Extracted
Vt	1.000	

					AMOUNTS CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	SIGNAL	RESPONSE	(ug/ml)	(ug/ml)	TARGET RANGE	RATIO
2 Naphthalene						CAS #: 91-20-3		
11.783	11.783	(0.000)	VWD1A	1201	0.20000	0.23	80.00- 120.00	100.00(M)
11.888	11.888	(0.000)	ADC1A	2206			146.94- 220.42	183.68
3 Acenaphthylene						CAS #: 208-96-8		
13.016	13.016	(0.000)	VWD1A	987	0.20000	0.25		(M)
4 1-Methyl naphthalene						CAS #: 90-12-0		
13.660	13.660	(0.000)	VWD1A	1169			80.00- 120.00	100.00(M)
13.727	13.727	(0.000)	ADC1A	2941	0.20000	0.16	201.27- 301.90	251.58
5 2-Methyl naphthalene						CAS #: 91-57-6		
13.983	13.983	(0.000)	VWD1A	1266	0.20000	0.29	80.00- 120.00	100.00(M)
14.058	14.058	(0.000)	ADC1A	4500			284.36- 426.54	355.45

RT	EXP RT	DLT RT	SIGNAL	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
6 Acenaphthene						CAS #: 83-32-9		
14.333	14.333	(0.000)	VWD1A	1197			80.00- 120.00	100.00(M)
14.390	14.390	(0.000)	ADC1A	4346	0.20000	0.19	290.46- 435.69	363.07
7 Fluorene						CAS #: 86-73-7		
14.663	14.663	(0.000)	VWD1A	6473	0.20000	0.27		
8 Phenanthrene						CAS #: 85-01-8		
15.470	15.470	(0.000)	VWD1A	16188			80.00- 120.00	100.00(M)
15.558	15.558	(0.000)	ADC1A	118627	0.20000	0.21	586.25- 879.37	732.81
9 Anthracene						CAS #: 120-12-7		
16.196	16.196	(0.000)	VWD1A	41509	0.20000	0.29	80.00- 120.00	100.00
16.133	16.133	(0.000)	ADC1A	735			1.42- 2.12	1.77
10 Fluoranthene						CAS #: 206-44-0		
17.020	17.020	(0.000)	VWD1A	11907	0.20000	0.76		
11 Pyrene						CAS #: 129-00-0		
17.560	17.560	(0.000)	VWD1A	4333	0.20000	0.31	80.00- 120.00	100.00
17.665	17.665	(0.000)	ADC1A	194621			3593.28-5389.92	4491.60
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.553	18.553	(0.000)	VWD1A	4583	0.20000	0.33	80.00- 120.00	100.00(M)
18.648	18.648	(0.000)	ADC1A	160650			2804.28-4206.42	3505.35
13 Benzo(a)Anthracene						CAS #: 56-55-3		
19.360	19.360	(0.000)	VWD1A	12257	0.20000	0.33	80.00- 120.00	100.00(M)
19.450	19.450	(0.000)	ADC1A	126890			828.20-1242.29	1035.25
14 Chrysene						CAS #: 218-01-9		
19.753	19.753	(0.000)	VWD1A	18527	0.20000	0.36	80.00- 120.00	100.00
19.847	19.847	(0.000)	ADC1A	385461			1664.43-2496.64	2080.54
15 Benzo(b)Fluoranthene						CAS #: 205-99-2		
21.170	21.170	(0.000)	VWD1A	9148	0.20000	0.22	80.00- 120.00	100.00(M)
21.258	21.258	(0.000)	ADC1A	13995			122.39- 183.58	152.98
16 Benzo(k)Fluoranthene						CAS #: 207-08-9		
21.796	21.796	(0.000)	VWD1A	8751	0.20000	0.28	80.00- 120.00	100.00(M)
21.882	21.882	(0.000)	ADC1A	12695			116.06- 174.08	145.07
17 Benzo(a)pyrene						CAS #: 50-32-8		
22.390	22.390	(0.000)	VWD1A	15482			80.00- 120.00	100.00(M)
22.493	22.493	(0.000)	ADC1A	37381	0.20000	0.17	193.16- 289.74	241.45

					AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
RT	EXP RT	DLT RT	SIGNAL	RESPONSE				
18 Dibenz(ah)Anthracene							CAS #: 53-70-3	
23.383	23.383	(0.000)	VWD1A	2081	0.20000	0.25	80.00- 120.00	100.00(M)
23.467	23.467	(0.000)	ADC1A	6868			264.03- 396.04	330.03
19 Benzo(ghi)Perylene							CAS #: 191-24-2	
24.090	24.090	(0.000)	VWD1A	3244	0.20000	0.23	80.00- 120.00	100.00(M)
24.222	24.222	(0.000)	ADC1A	8242			203.26- 304.88	254.07
20 Indeno(123cd)Pyrene							CAS #: 193-39-5	
24.570	24.570	(0.000)	VWD1A	9603	0.20000	0.26		

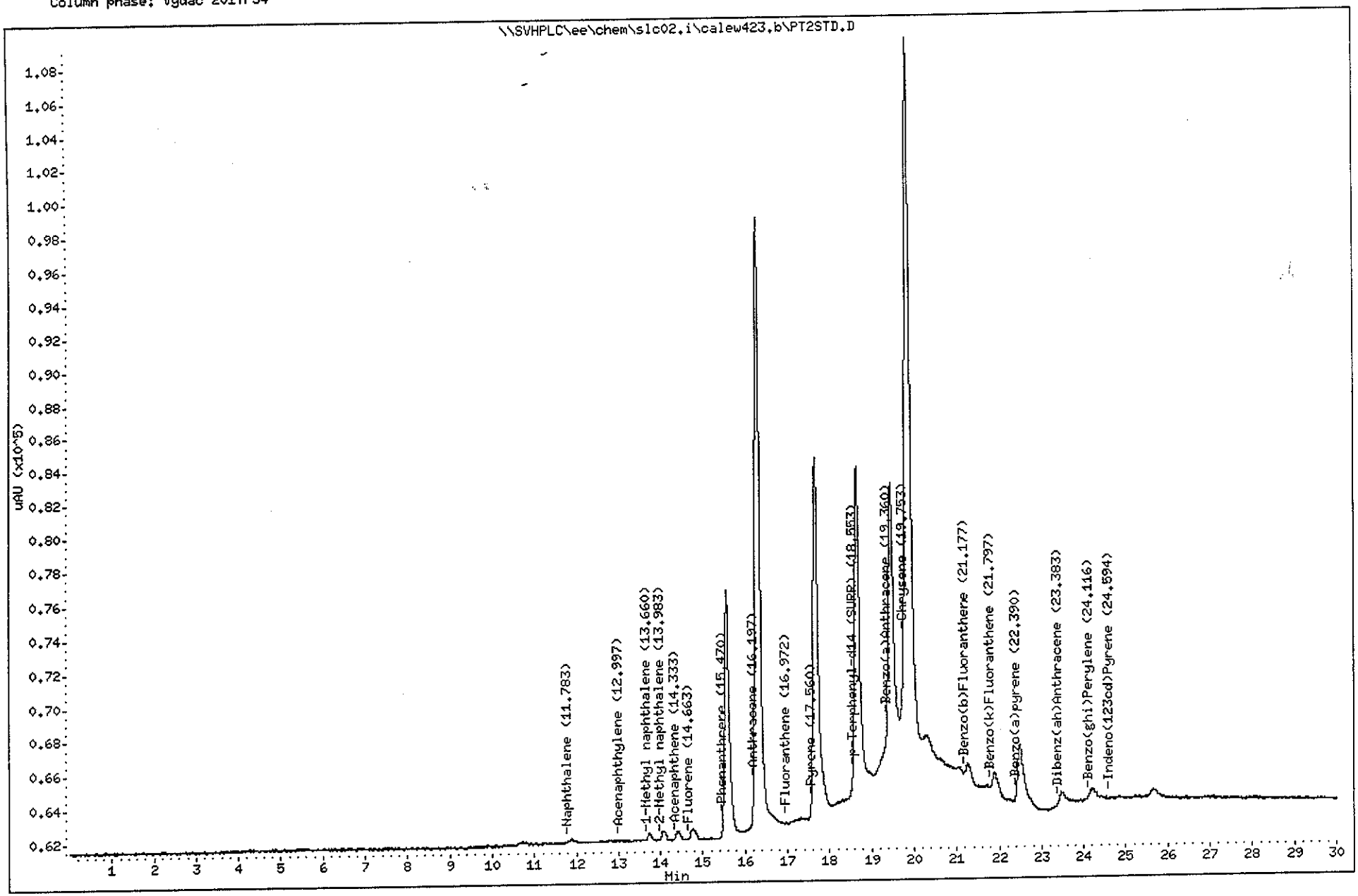
QC Flag Legend

M - Compound response manually integrated.

Data File: \\SVHPLC\ee\chem\slc02.i\calew423.b\PT2STD.D
Date : 22-APR-2002 12:05
Client ID: PT2STD
Sample Info: SV4689
Purge Volume: 1000.0
Column phase: Vydac 201TP54

Instrument: slc02.i

Operator: dent
Column diameter: 4.60



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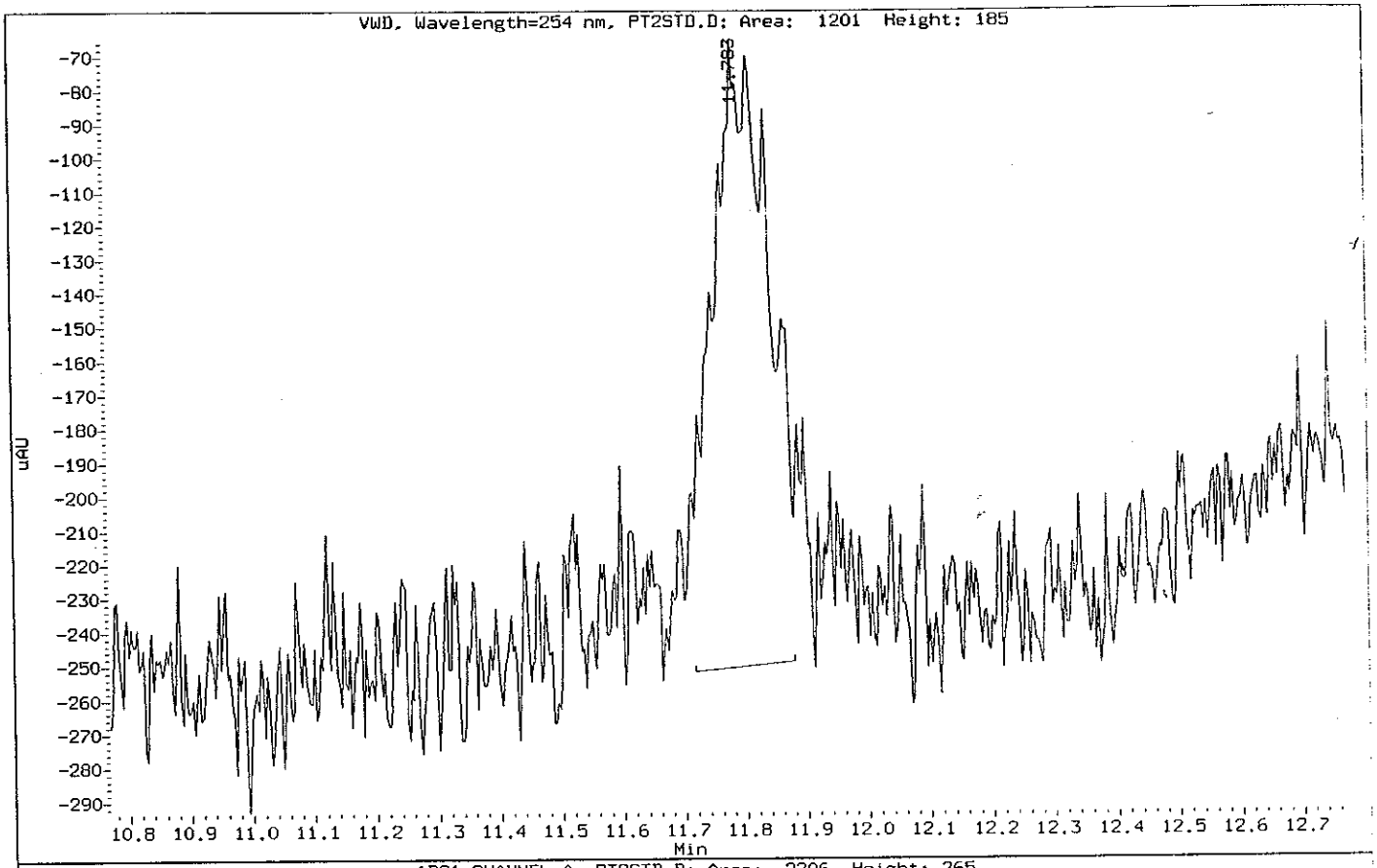
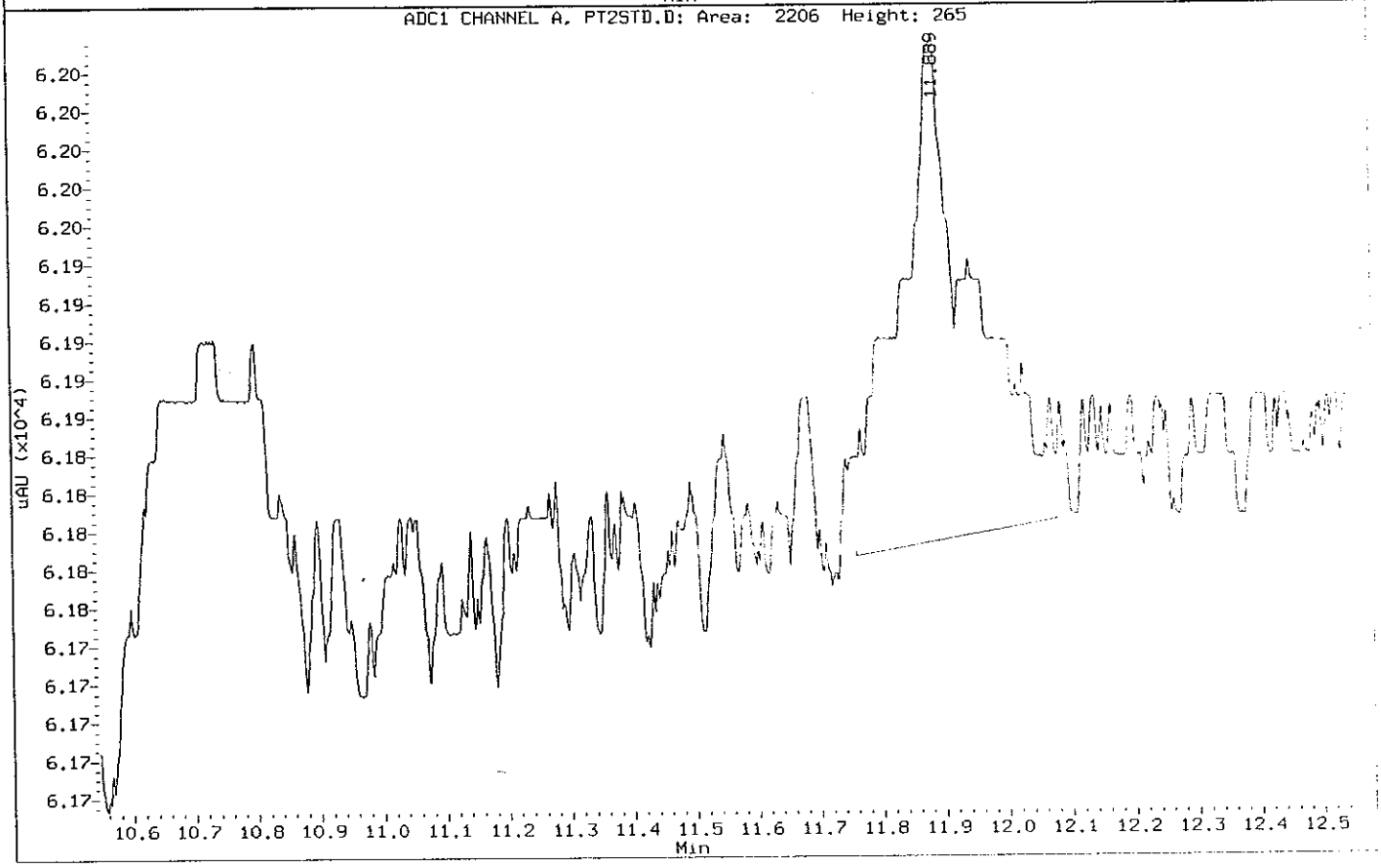
Instrument: slc02.i
Client Sample ID: PT2STD

Compound: Naphthalene
CAS Number: 91-20-3





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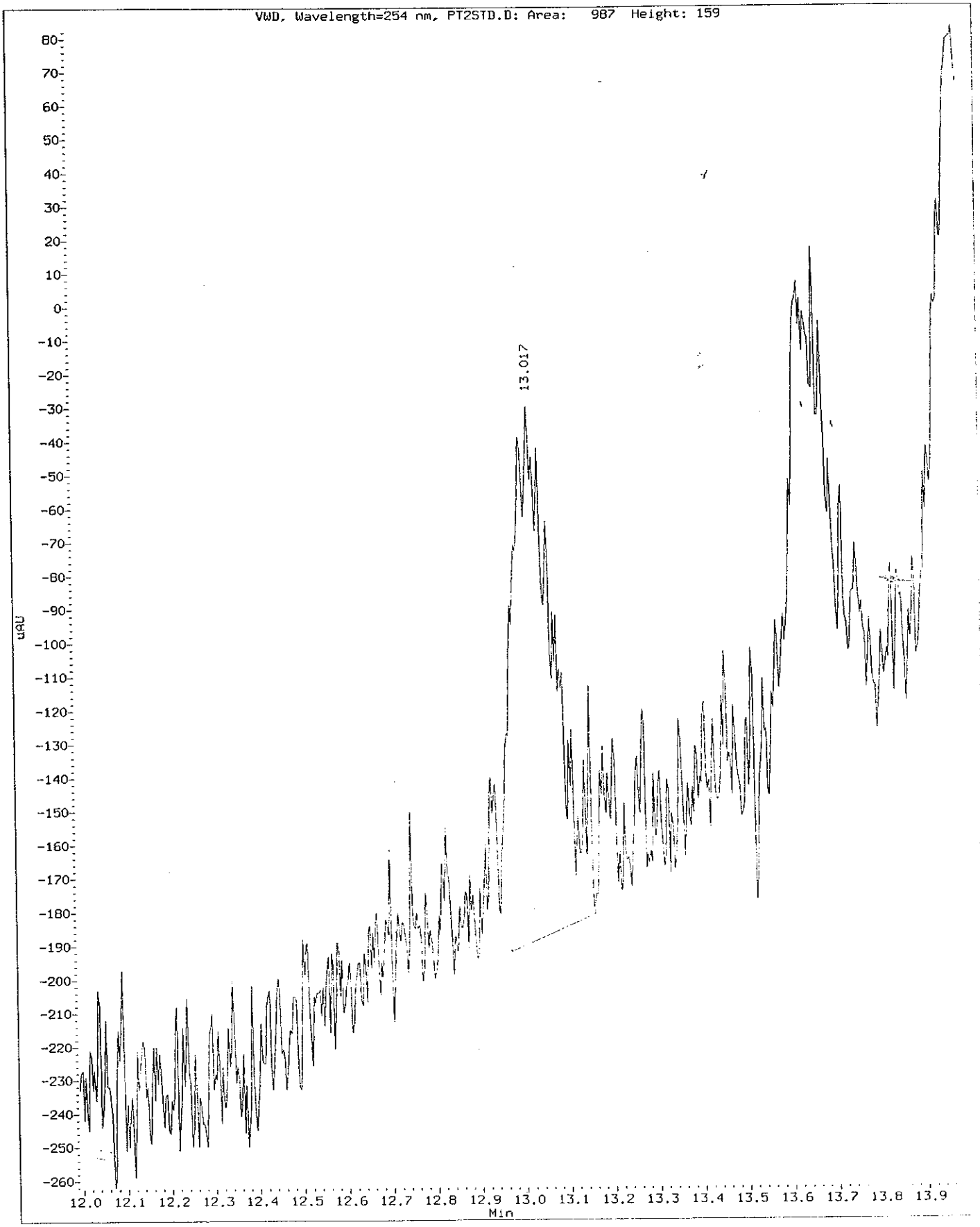
Instrument: slc02.i
Client Sample ID: PT2STD

Compound: Acenaphthylene
CAS Number: 208-96-8



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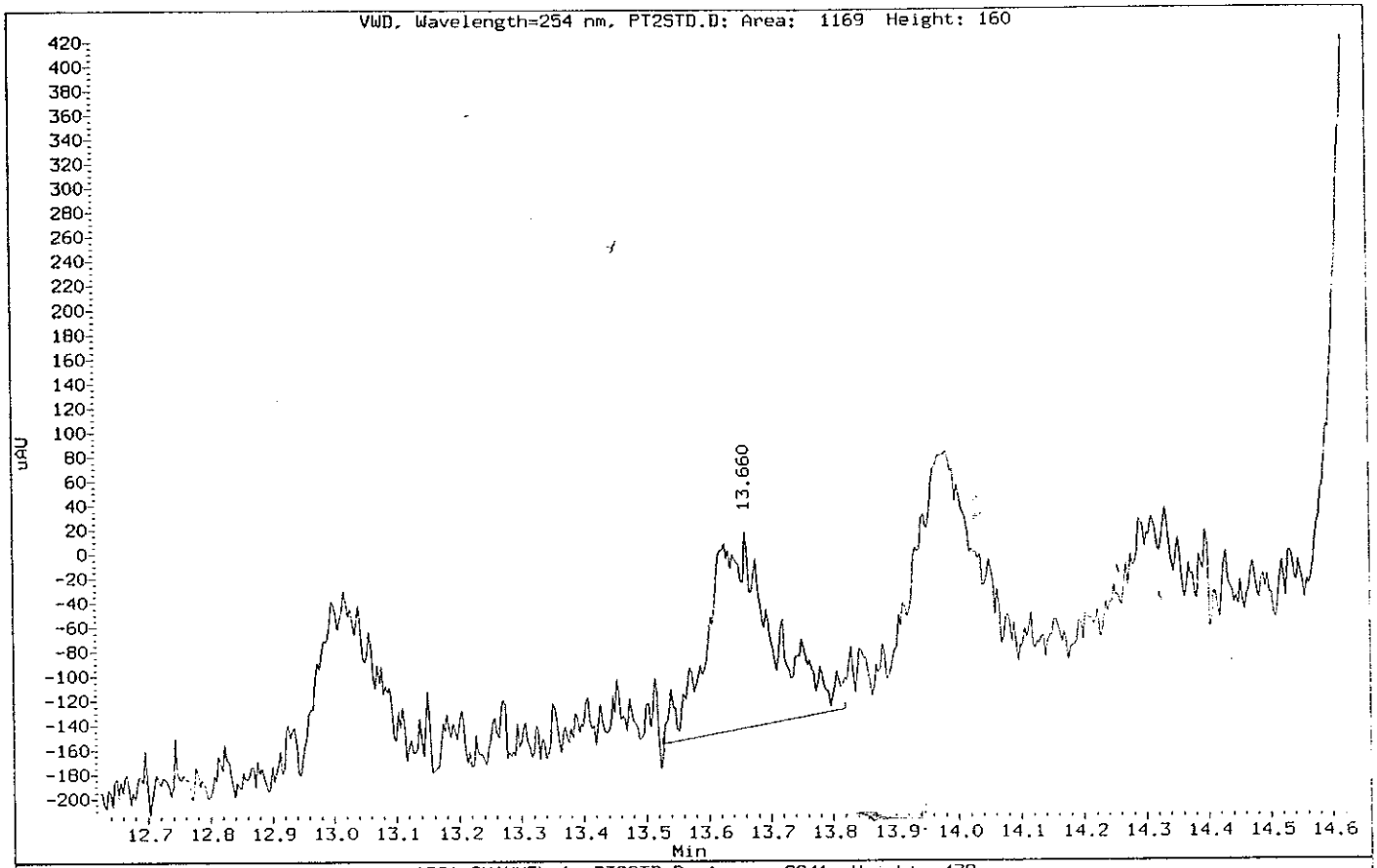
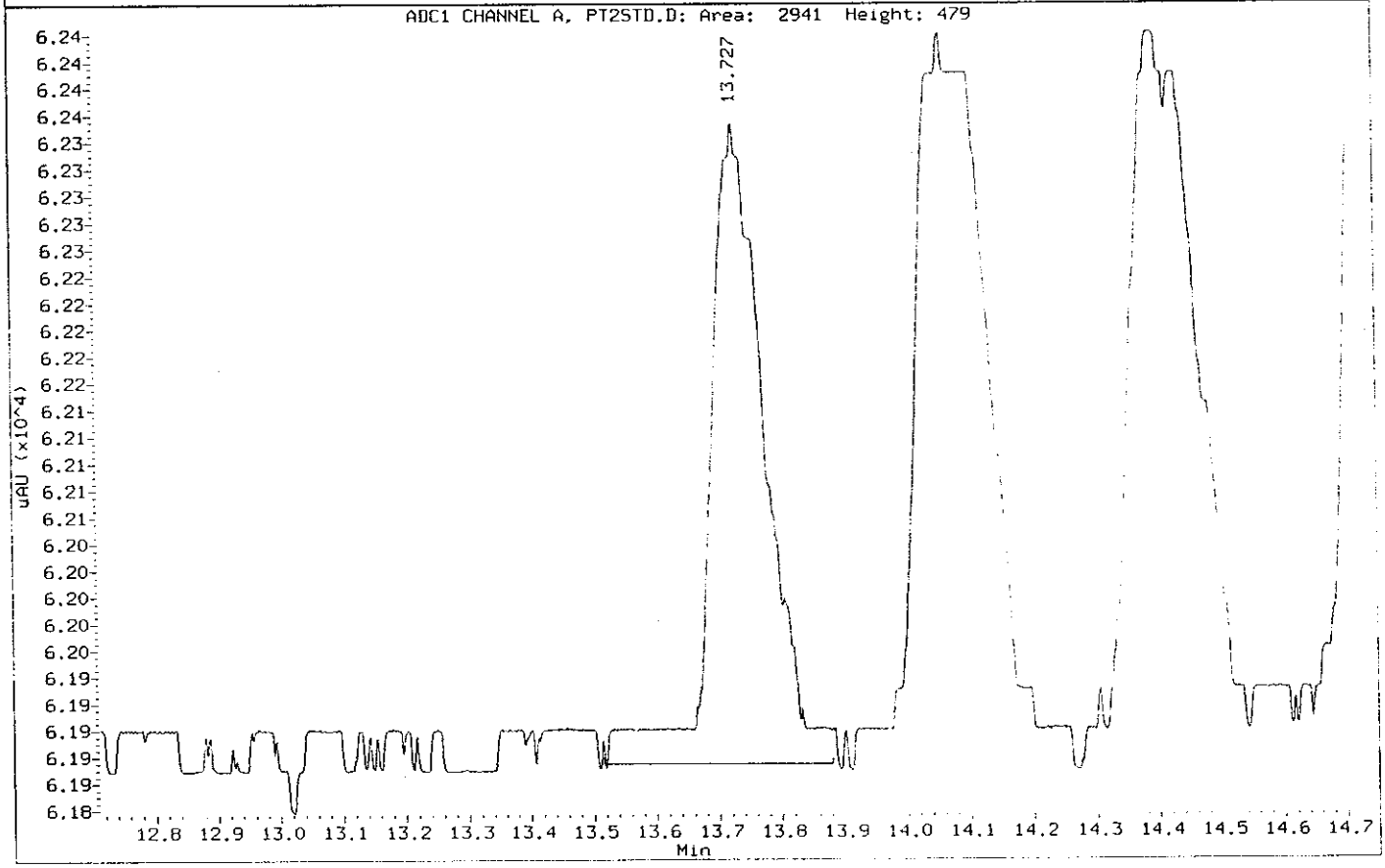
Instrument: slc02.i
Client Sample ID: PT2STD

Compound: 1-Methyl naphthalene
CAS Number: 90-12-0





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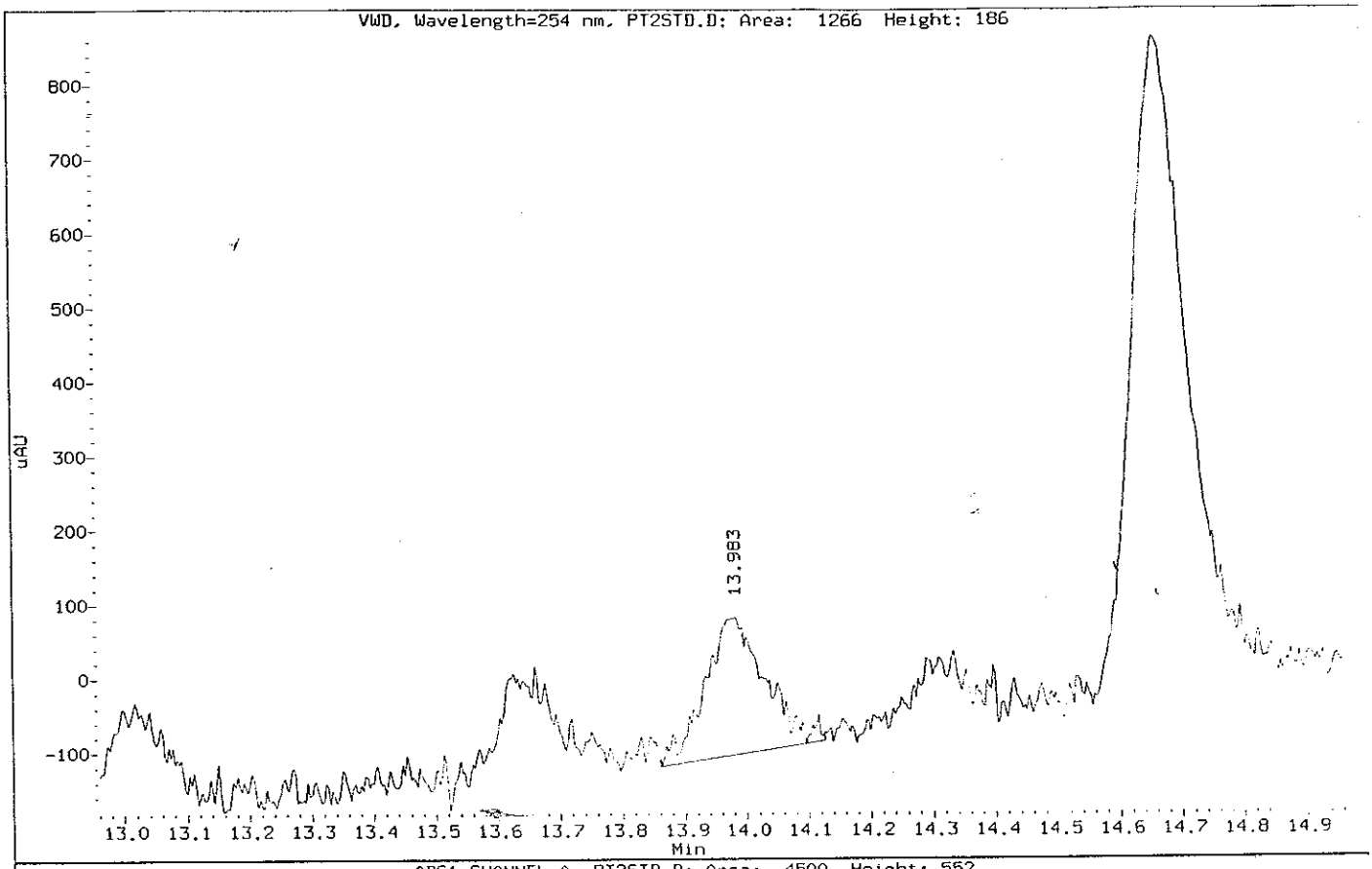
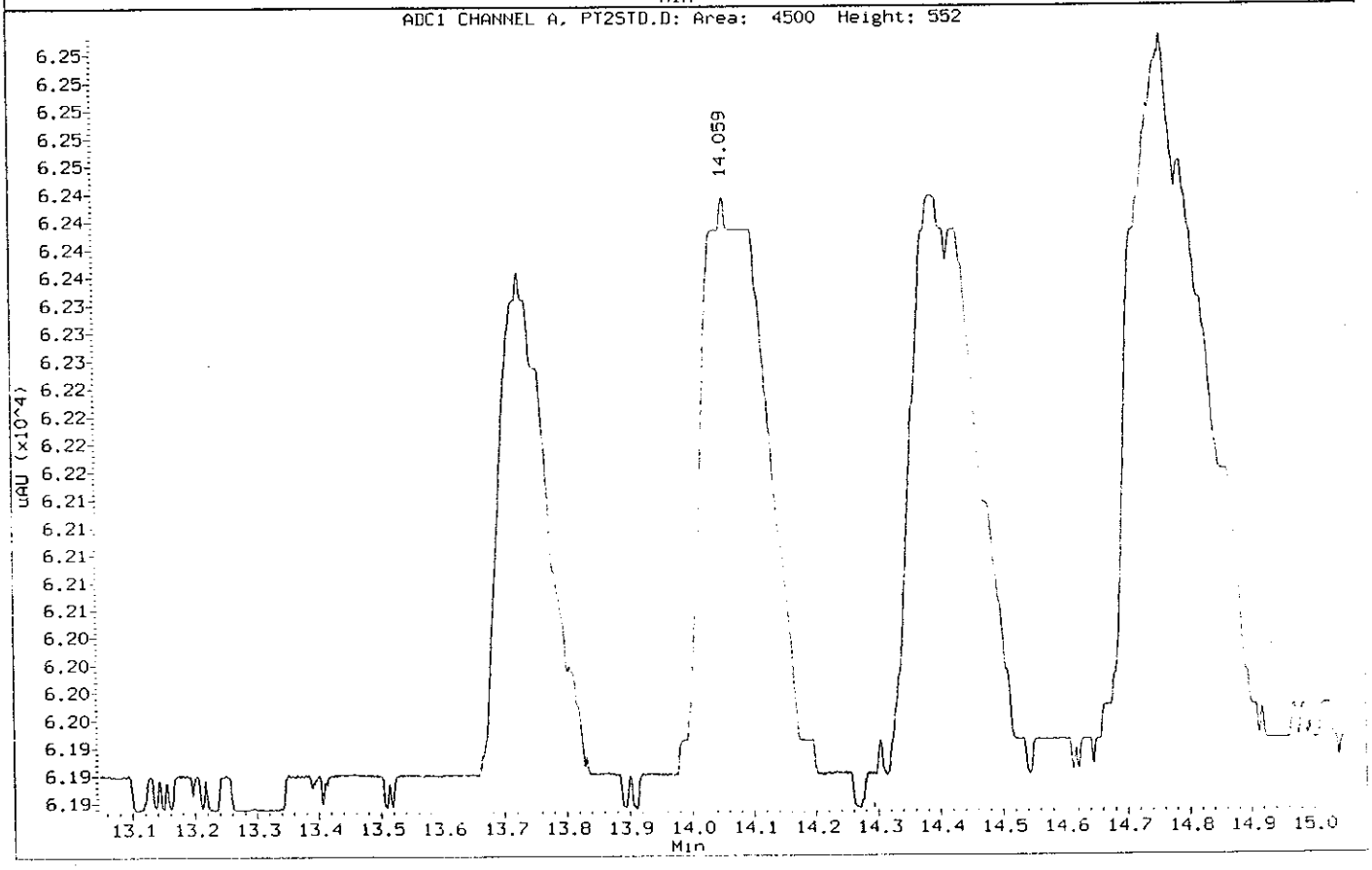
Instrument: slc02.i
Client Sample ID: PT2STD

Compound: 2-Methyl naphthalene
CAS Number: 91-57-6





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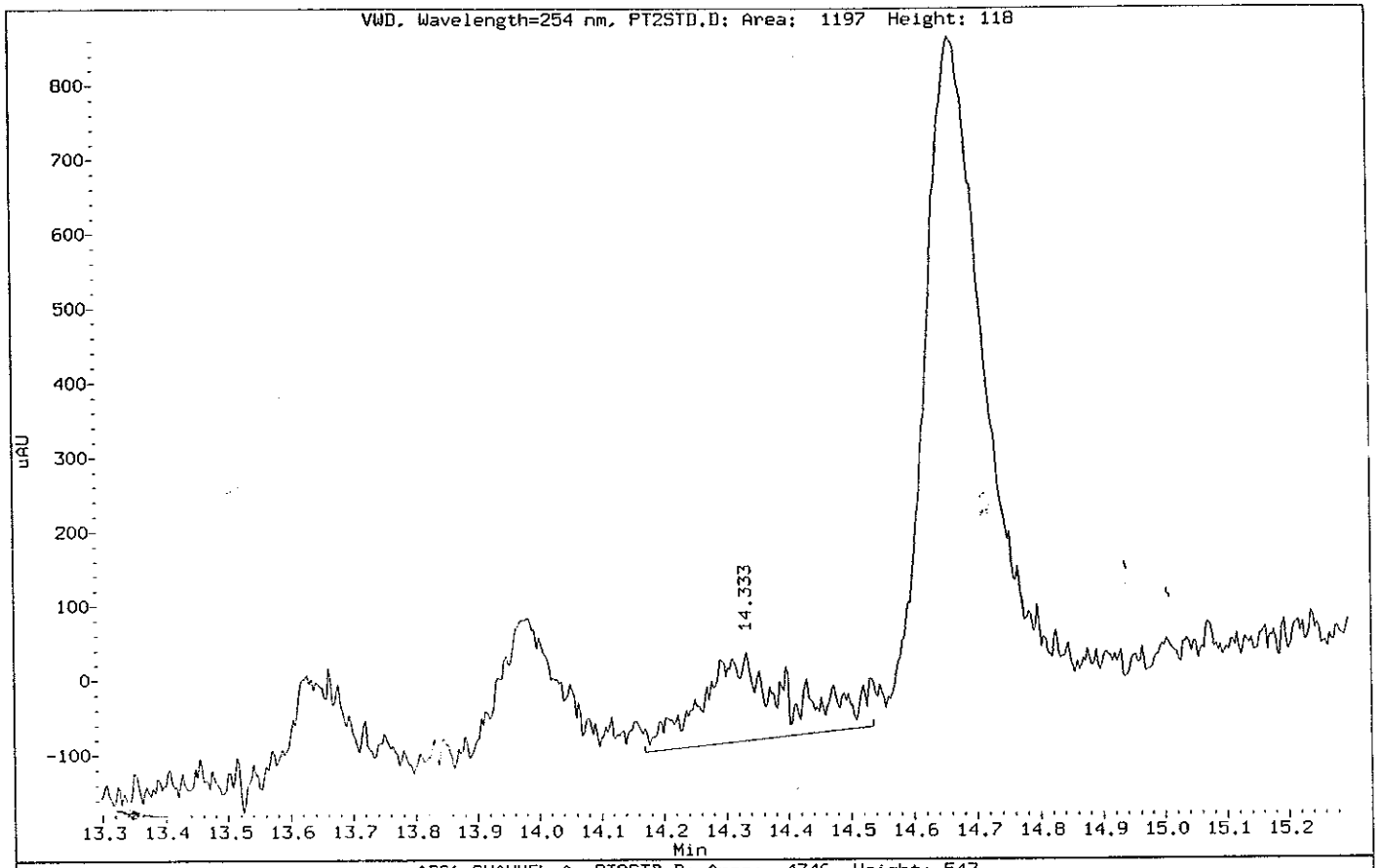
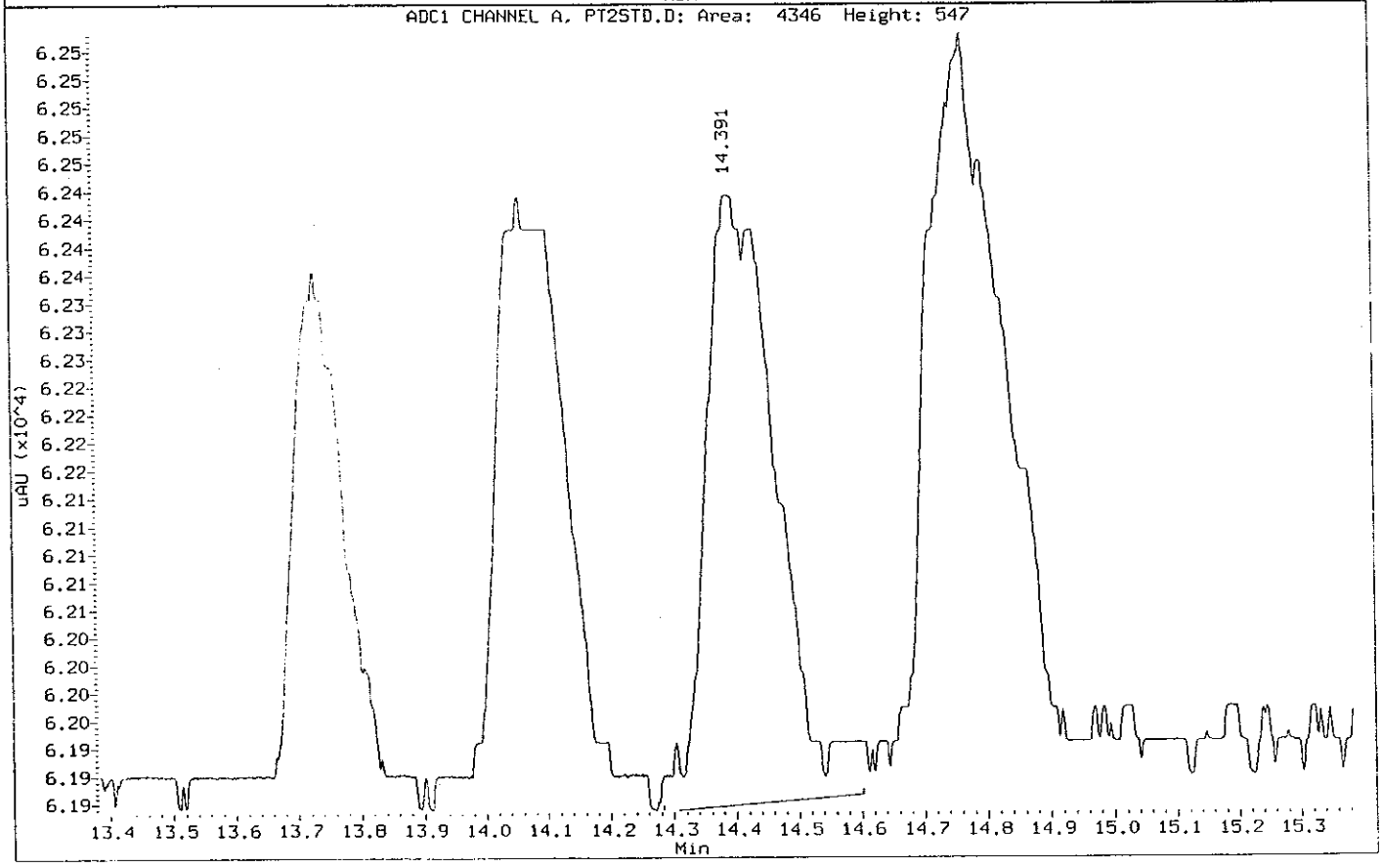
Instrument: slc02.i
Client Sample ID: PT2STD

Compound: Acenaphthene
CAS Number: 83-32-9





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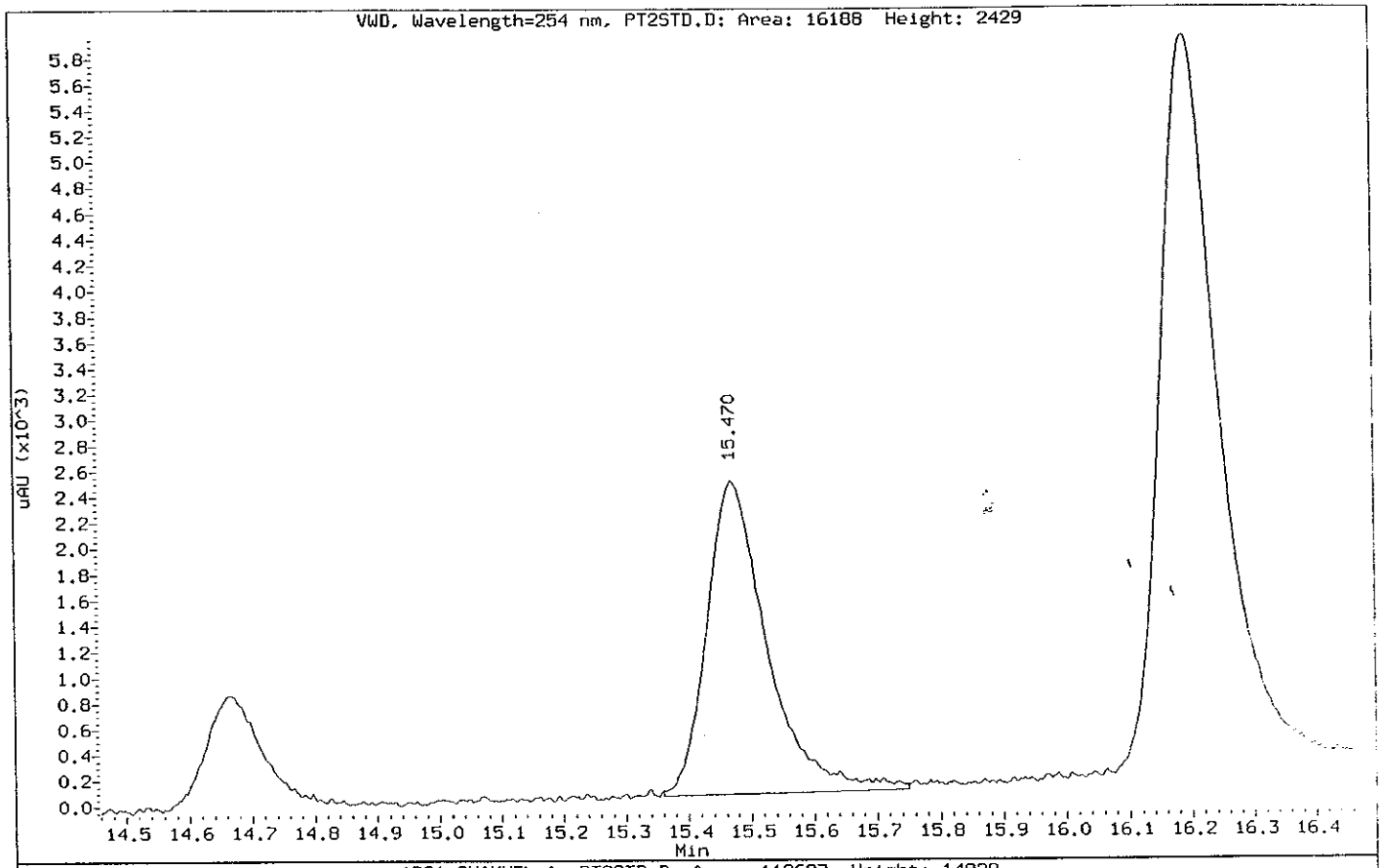
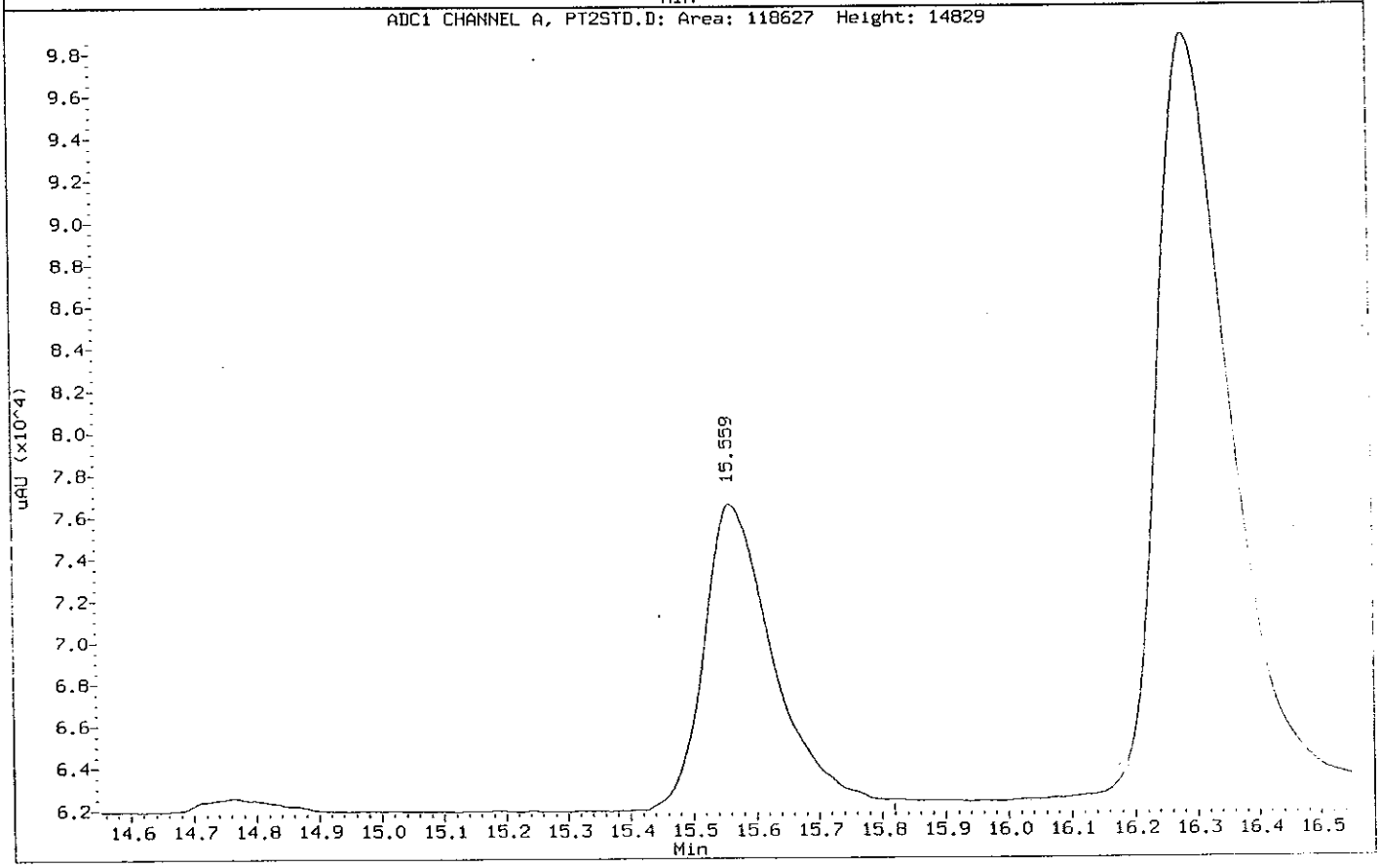
Instrument: slc02.i
Client Sample ID: PT2STD

Compound: Phenanthrene
CAS Number: 85-01-8





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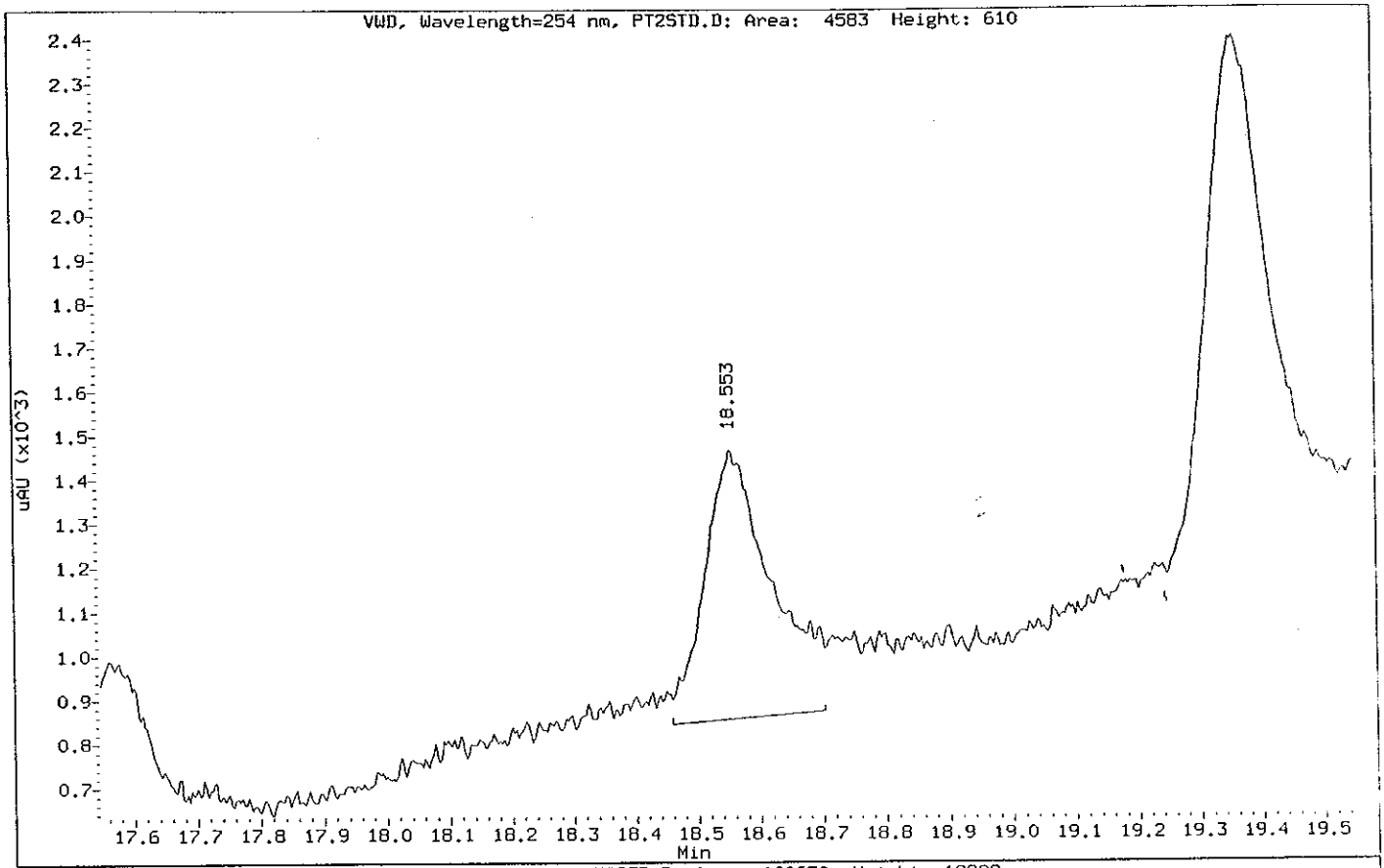
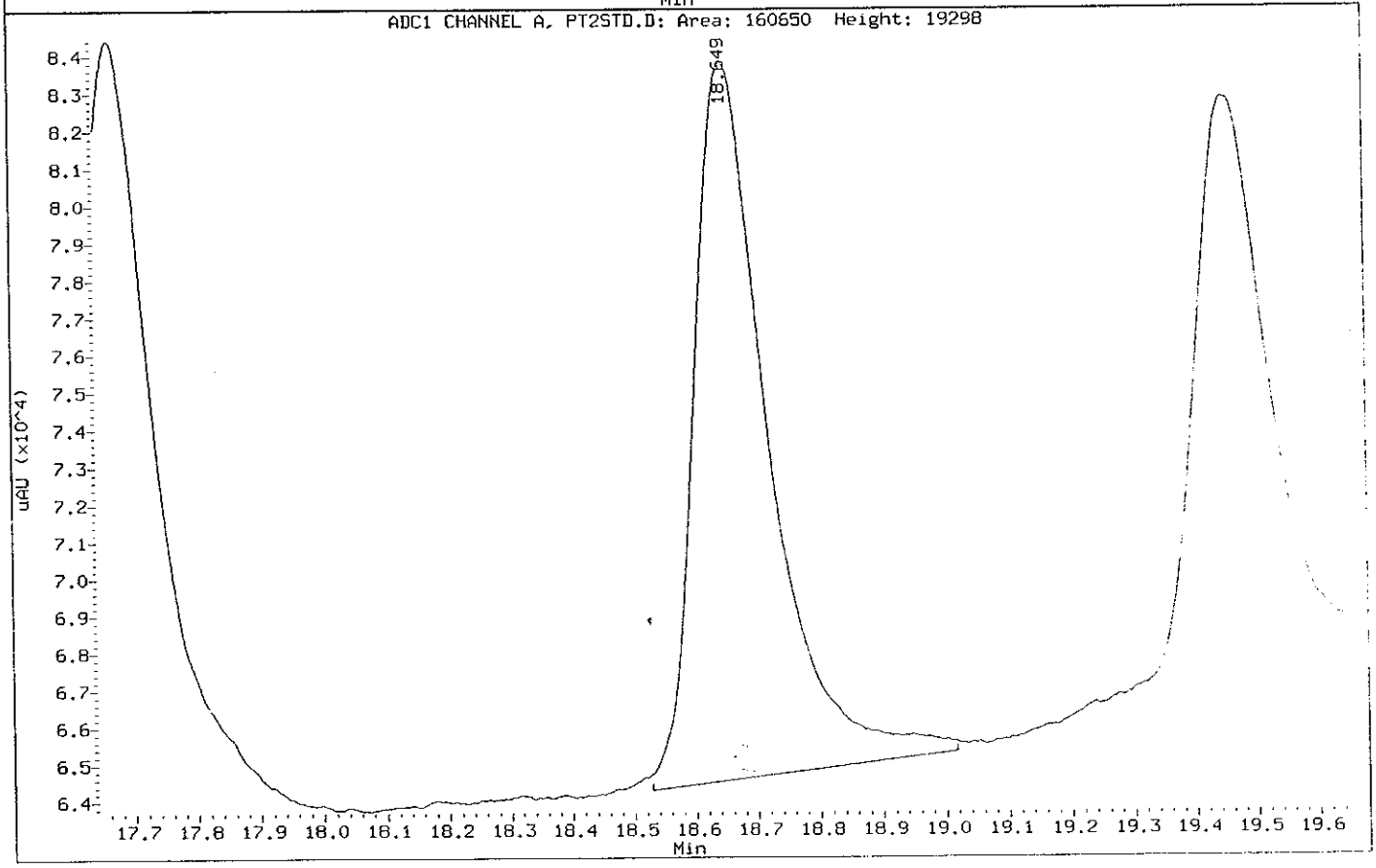
Injection Date: 22-APR-2002 12:05
Instrument: slc02.i
Client Sample ID: PT2STD

Compound: p-Terphenyl-d14 (SURR)
CAS Number: 1718-51-0





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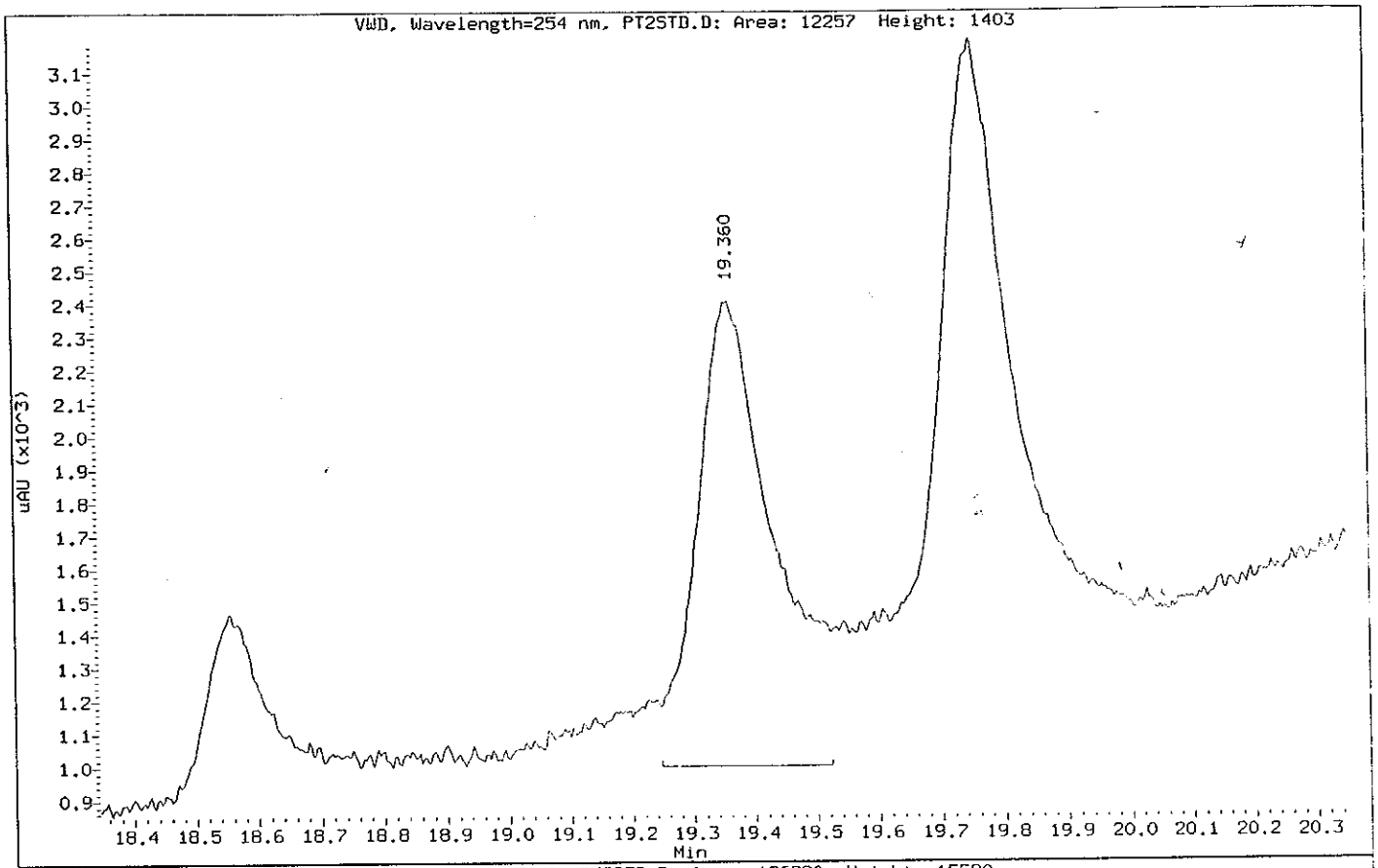
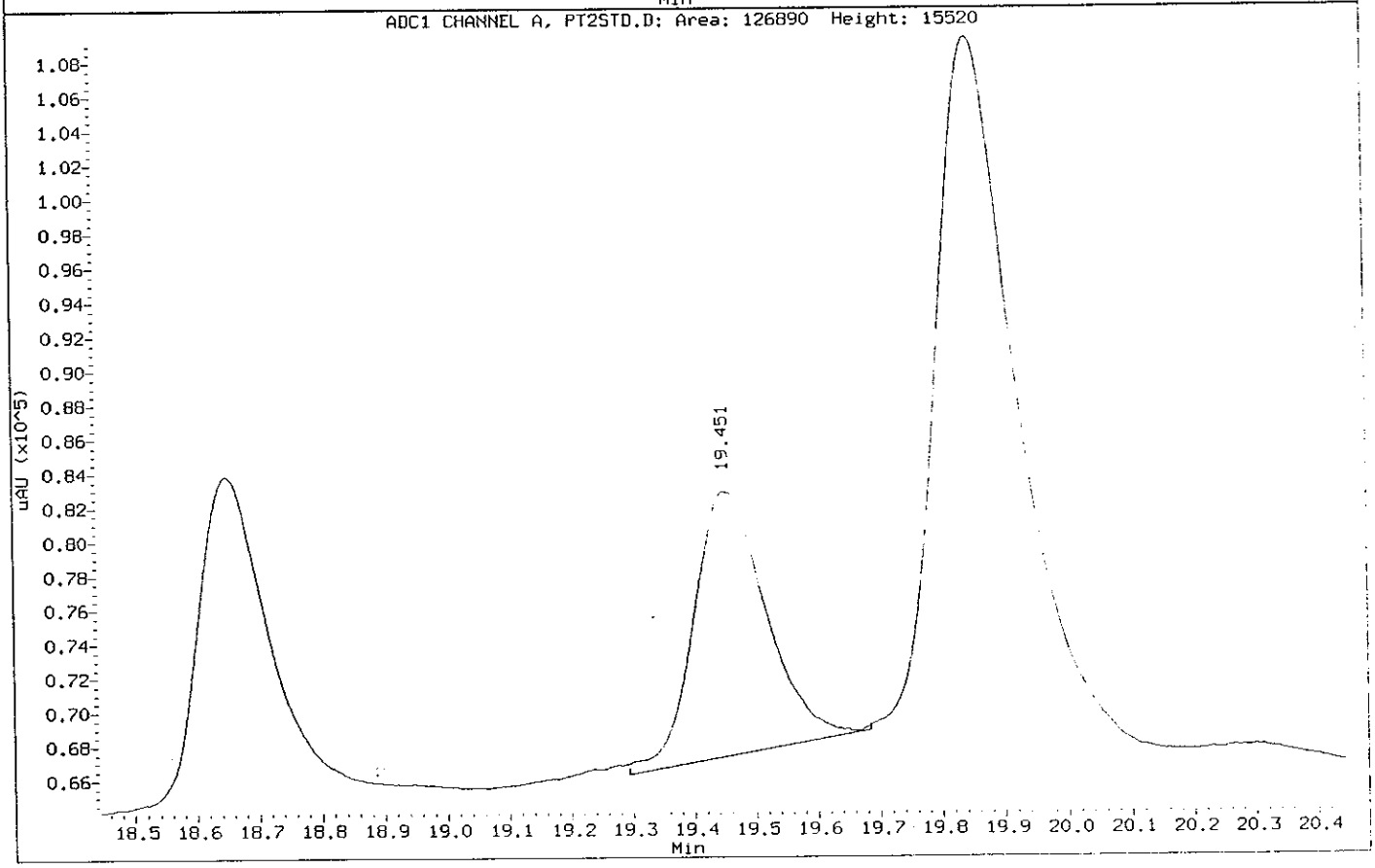
Instrument: slc02.i
Client Sample ID: PT2STD

Compound: Benzo(a)Anthracene
CAS Number: 56-55-3





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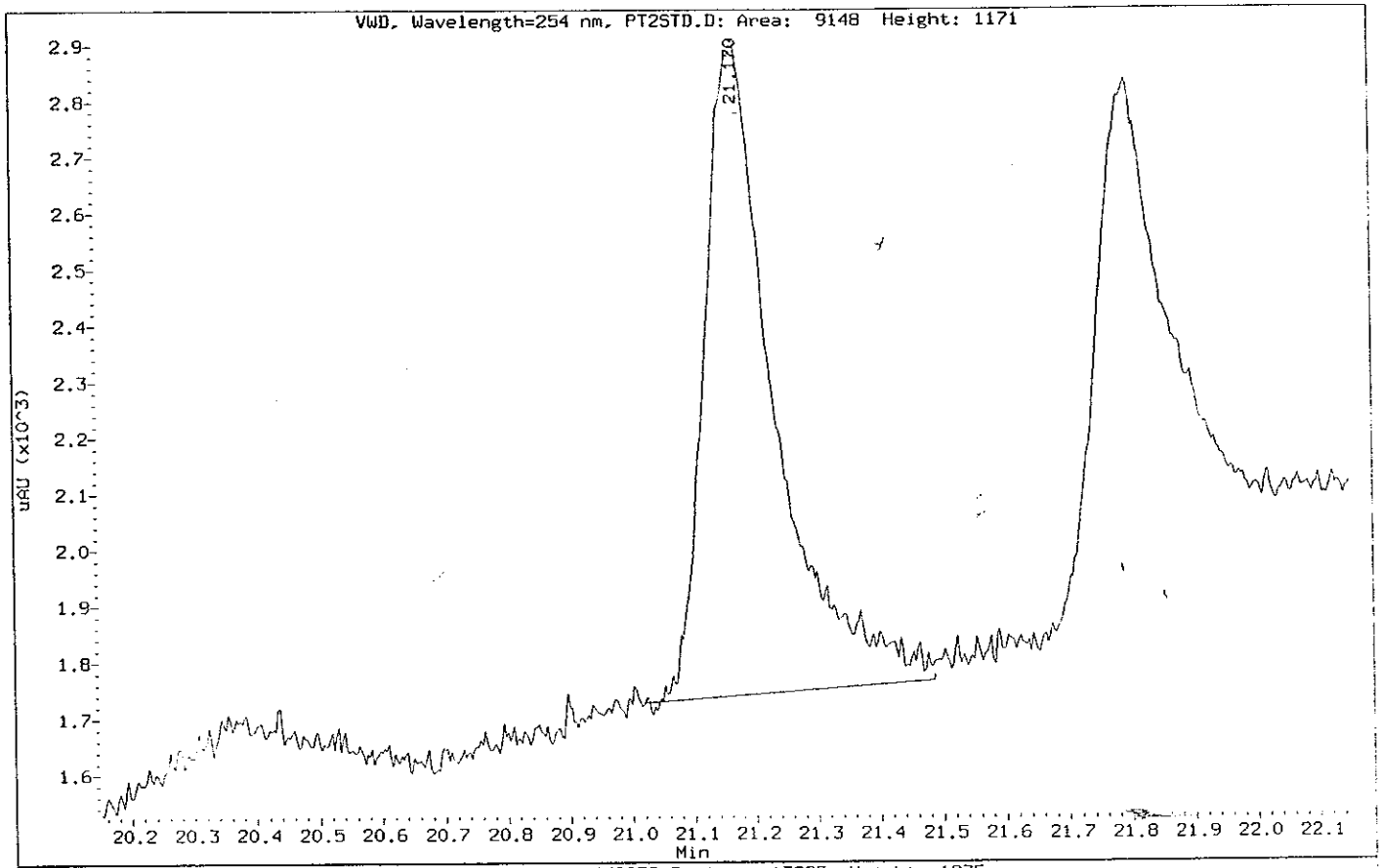
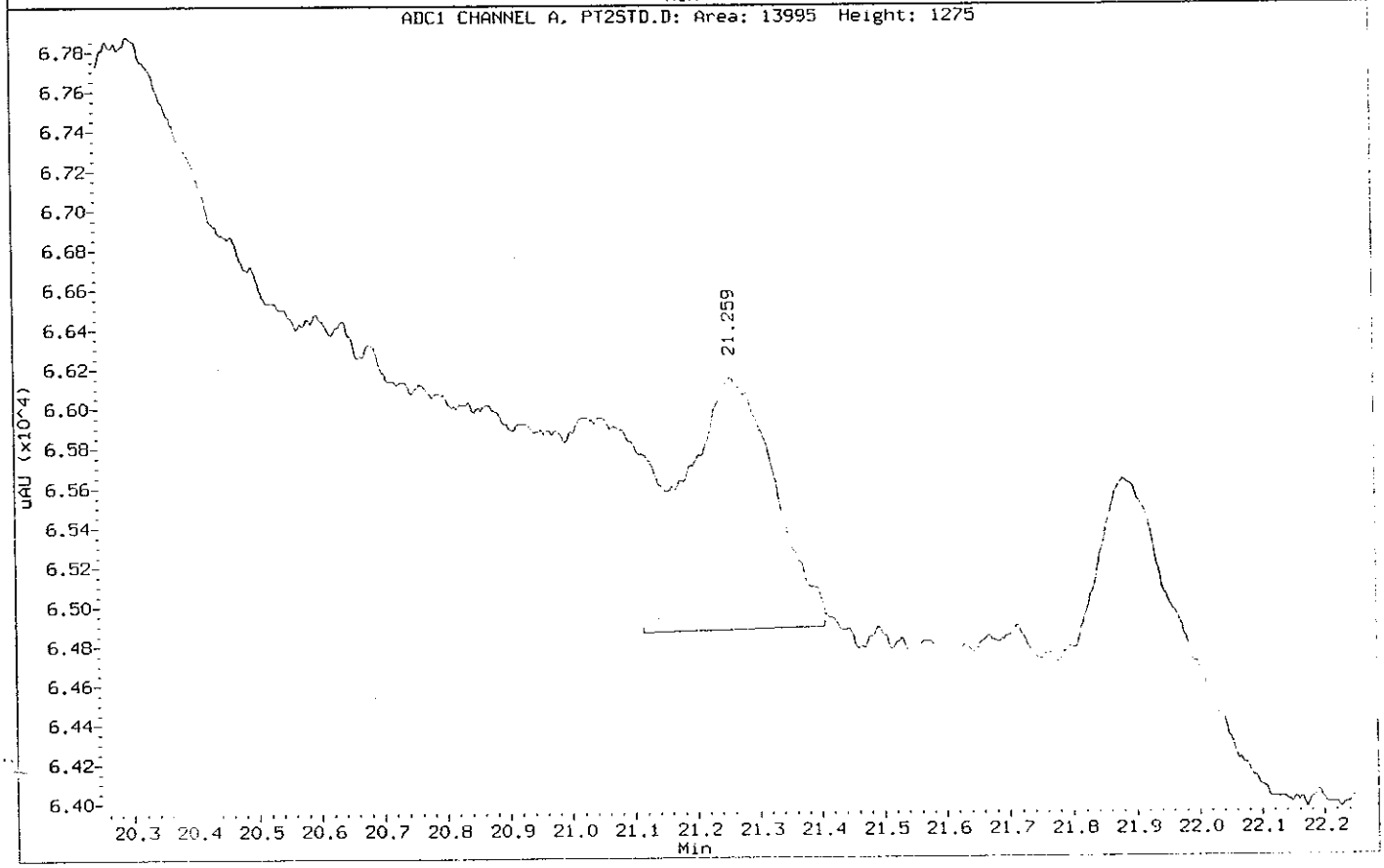
Instrument: slc02.i
Client Sample ID: PT2STD

Compound: Benzo(b)Fluoranthene
CAS Number: 205-99-2





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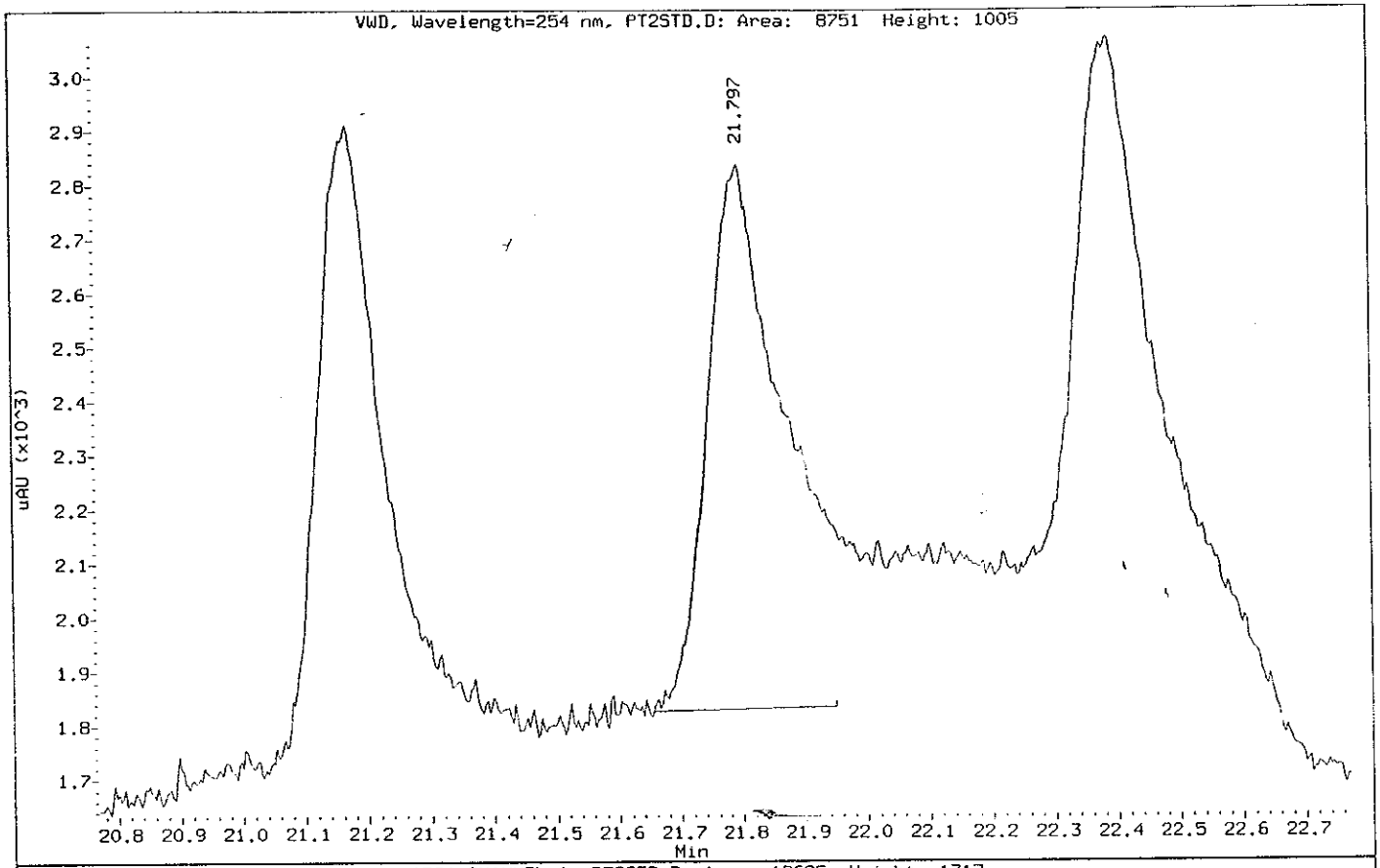
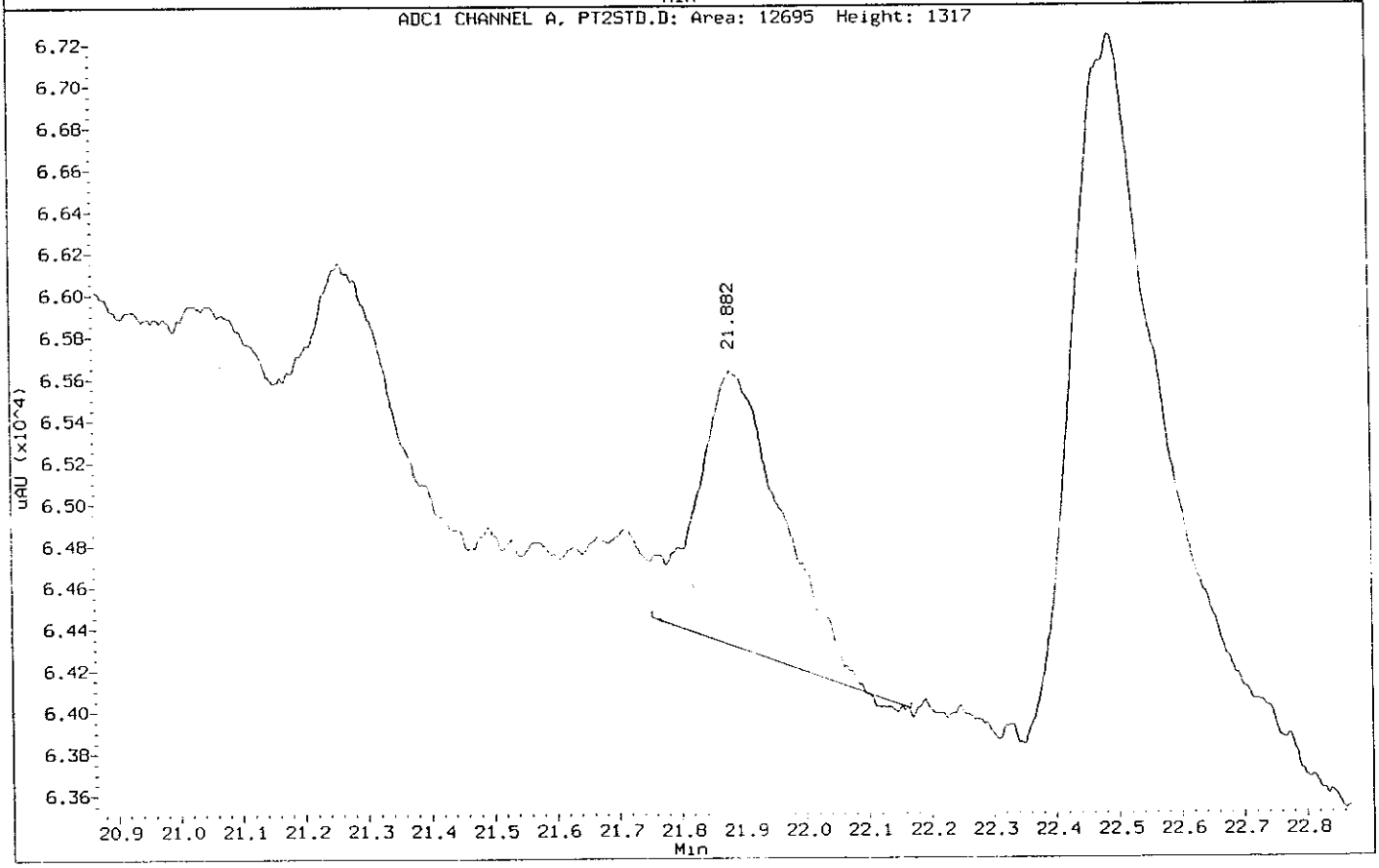
Instrument: slc02.i
Client Sample ID: PT2STD

Compound: Benzo(k)Fluoranthene
CAS Number: 207-08-9





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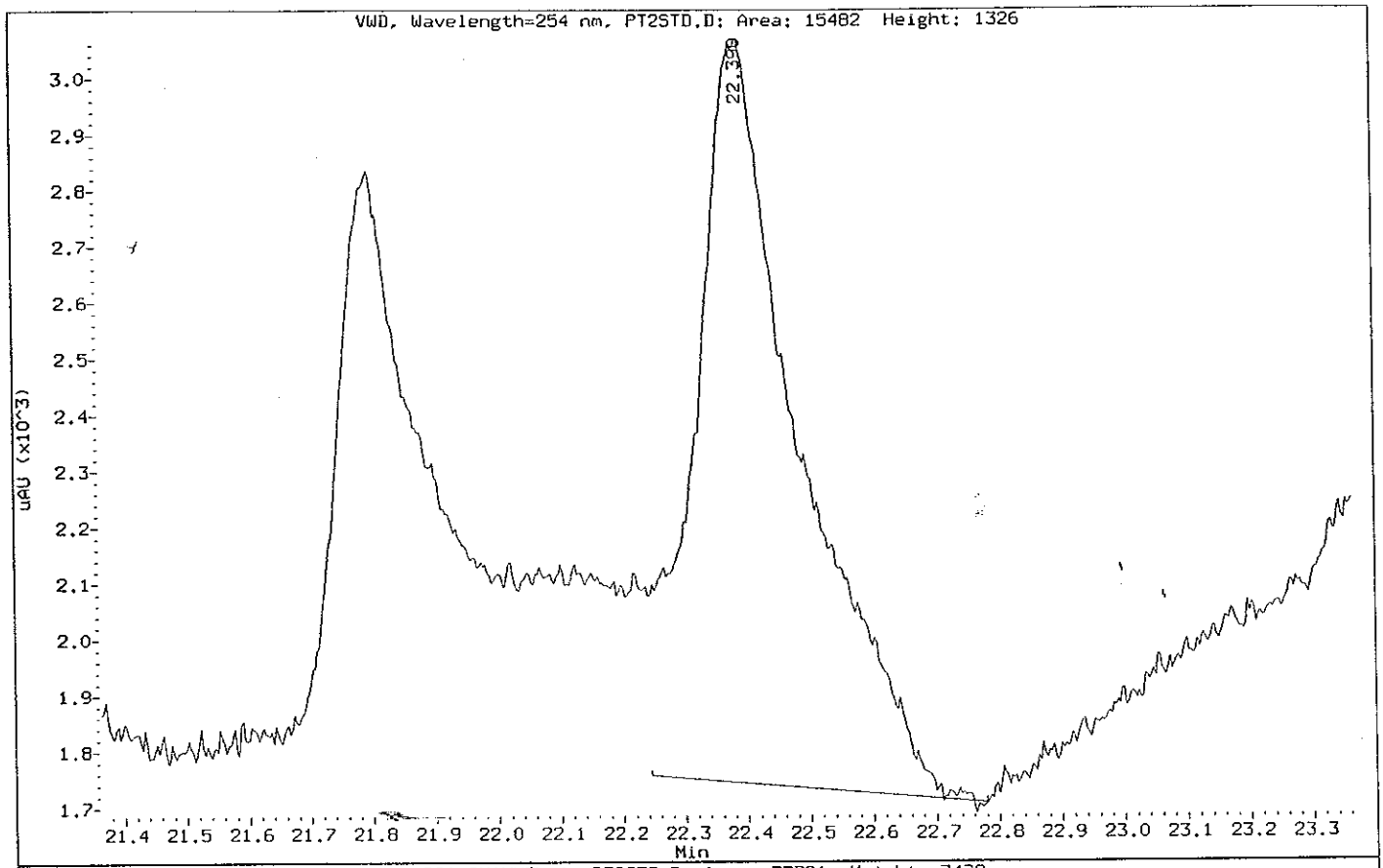
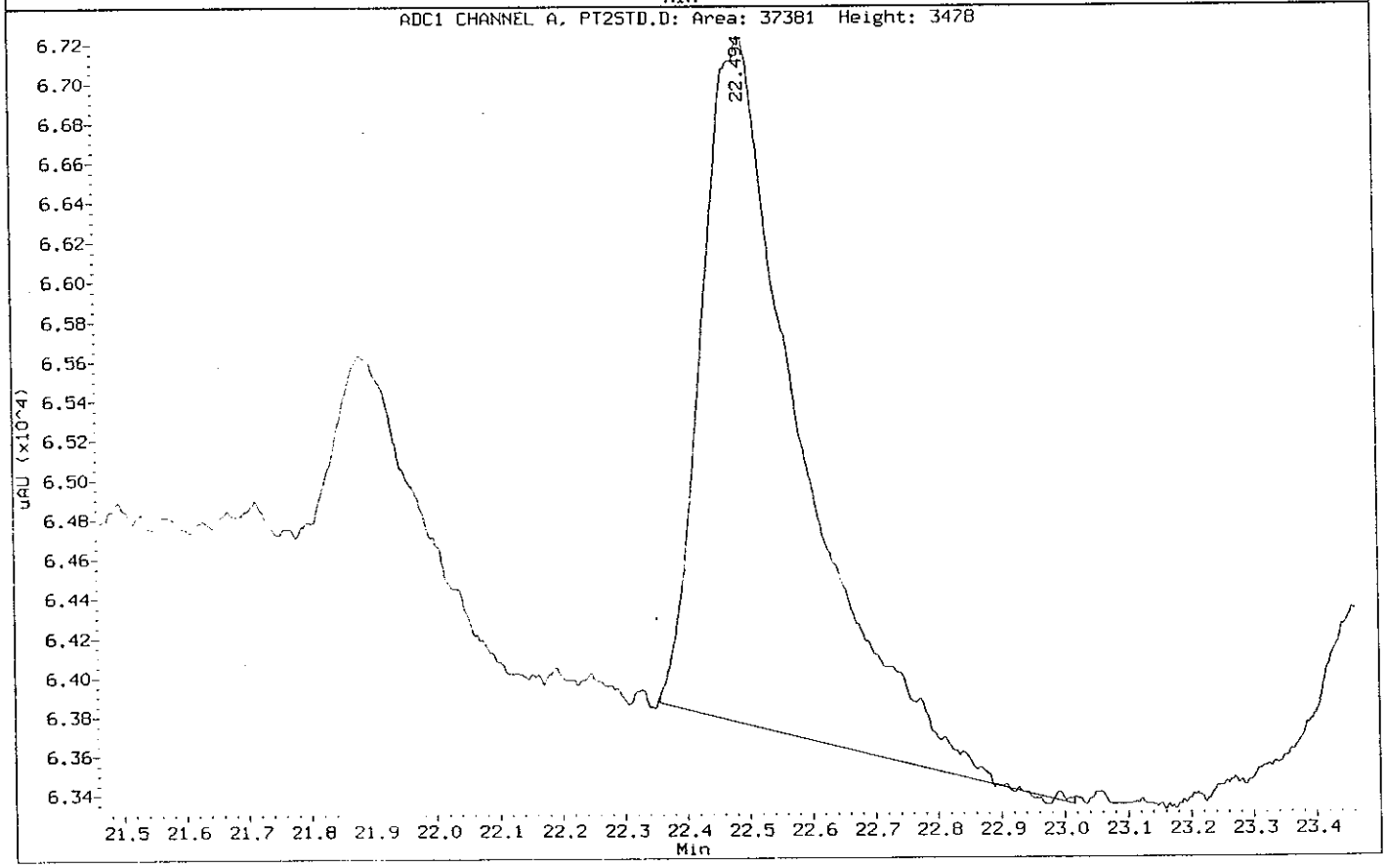
Injection Date: 22-APR-2002 12:05
Instrument: slc02.i
Client Sample ID: PT2STD

Compound: Benzo(a)pyrene
CAS Number: 50-32-8





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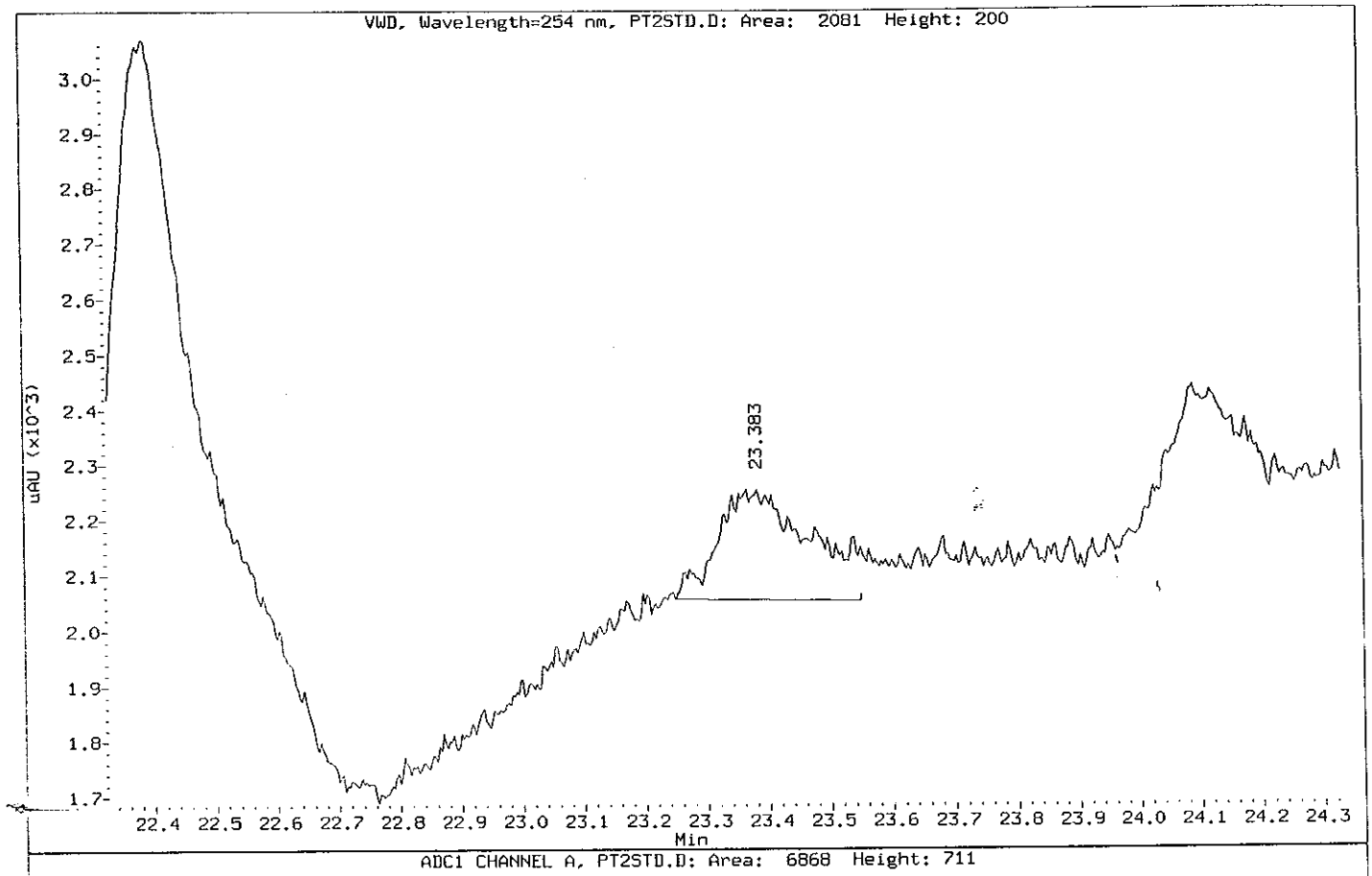
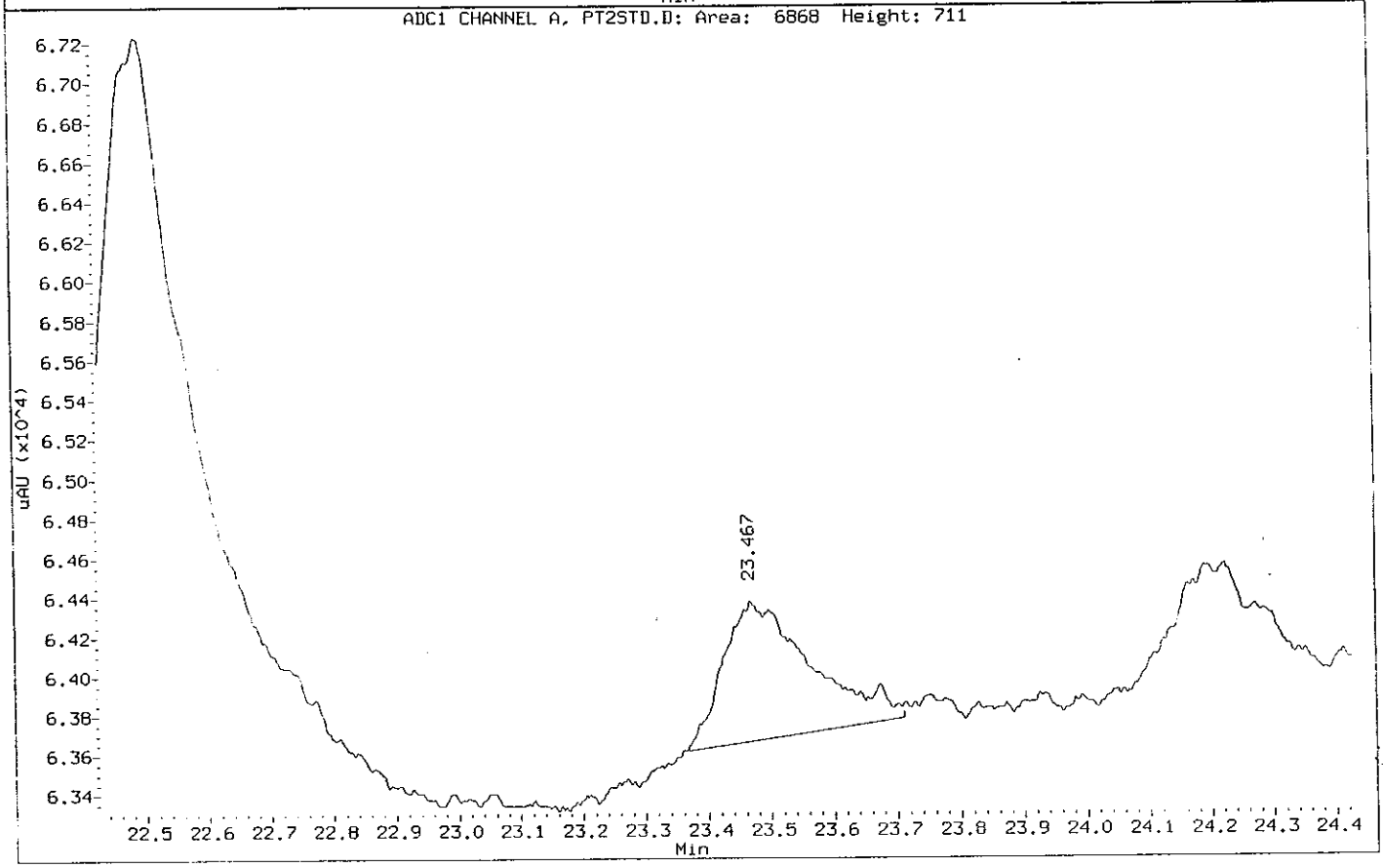
Injection Date: 22-APR-2002 12:05
Instrument: slc02.i
Client Sample ID: PT2STD

Compound: Dibenz(ah)Anthracene
CAS Number: 53-70-3





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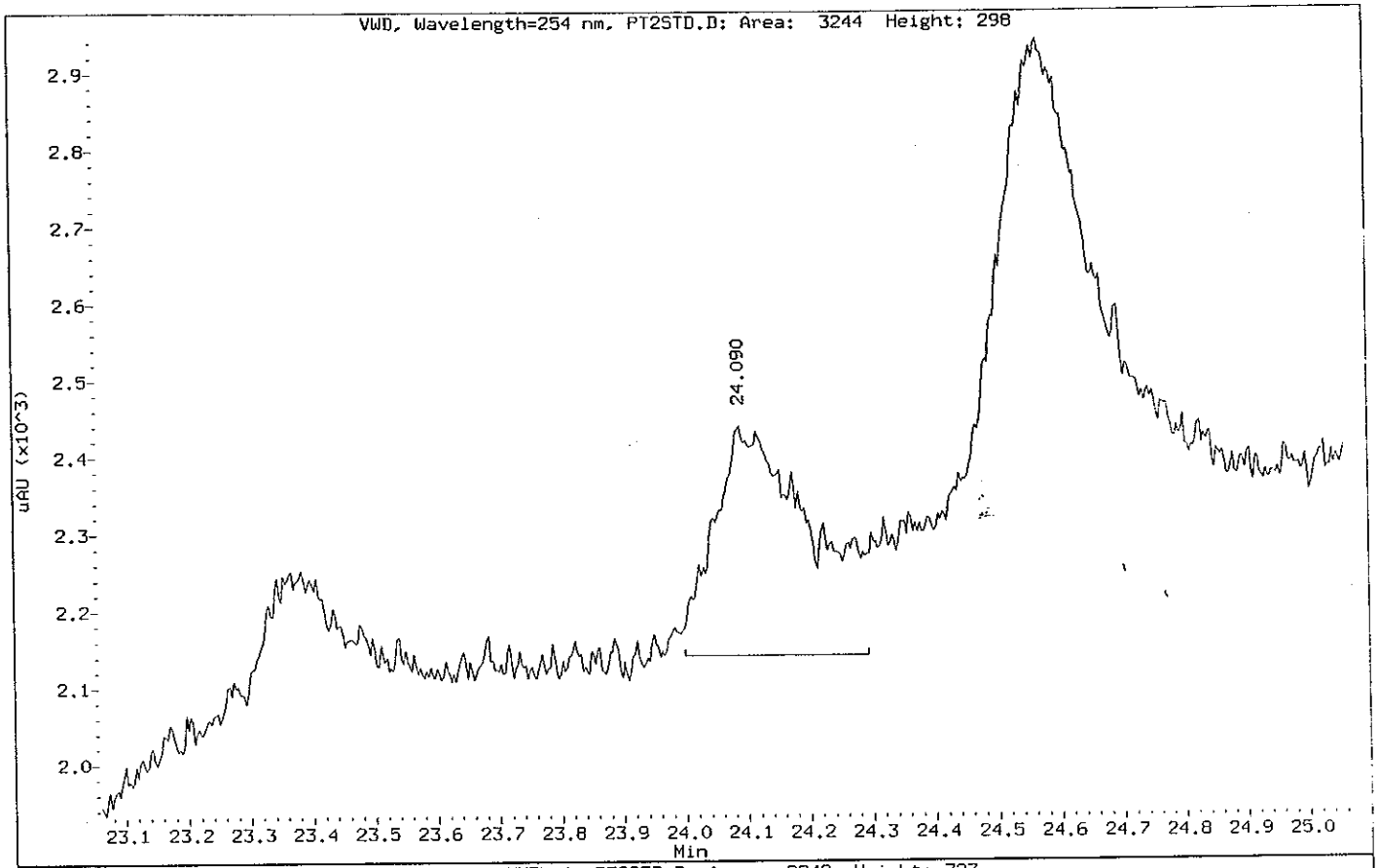
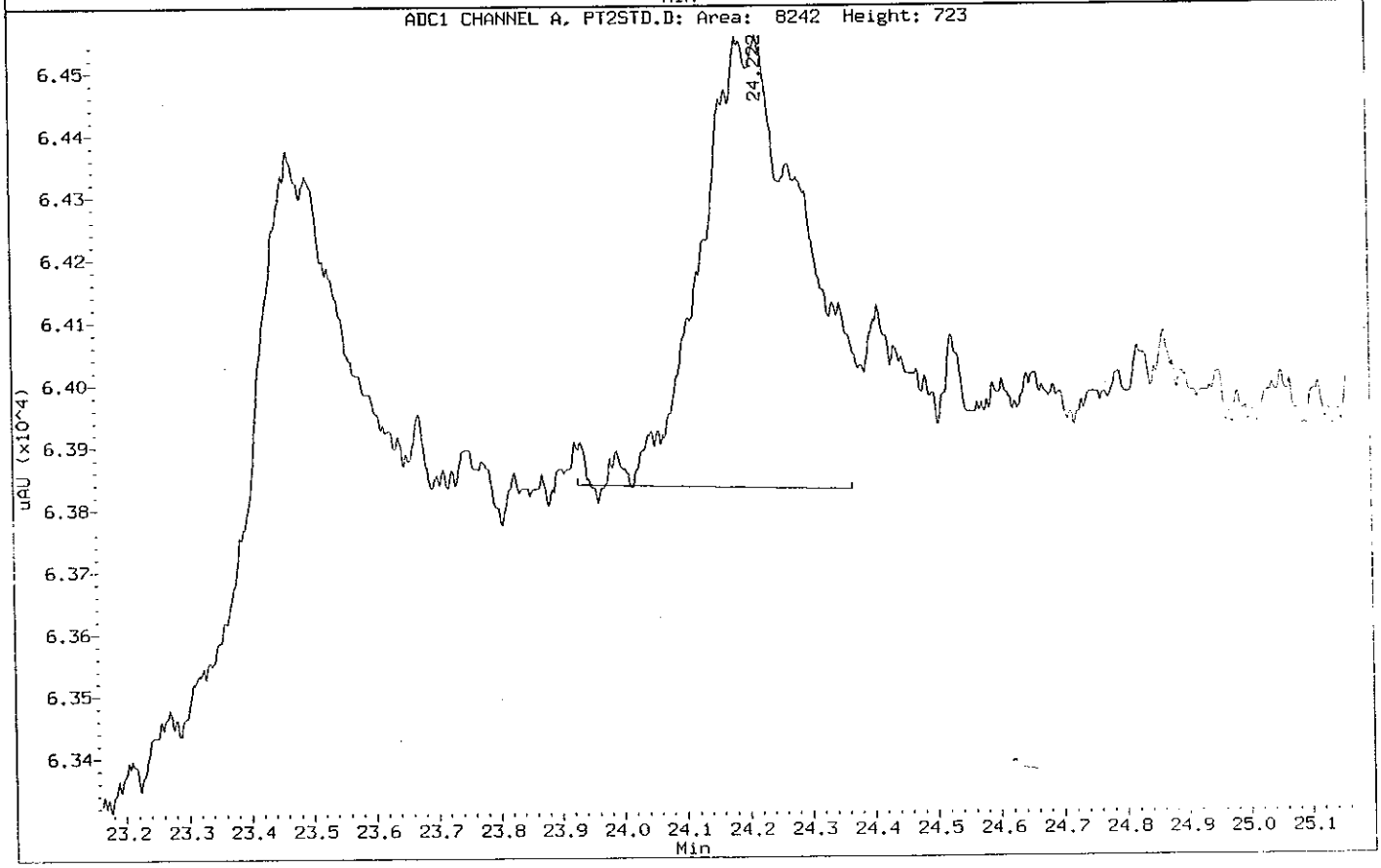
Injection Date: 22-APR-2002 12:05
Instrument: slc02.i
Client Sample ID: PT2STD

Compound: Benzo(ghi)Perylene
CAS Number: 191-24-2





PEL Laboratories, Inc.

Data file : \\SVHPLC\ee\chem\slc02.i\calew423.b\1STD.D
Lab Smp Id: SV4687 Client Smp ID: 1STD
Inj Date : 22-APR-2002 12:39
Operator : dent Inst ID: slc02.i
Smp Info : SV4687
Misc Info :
Comment :
Method : \\Svhplc\ee\chem\slc02.i\calew423.b\8310AE.m
Meth Date : 17-May-2002 13:22 tscott Quant Type: ESTD
Cal Date : 22-APR-2002 15:32 Cal File: 30STD.D
Als bottle: 2 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.04 Sample Matrix: WATER
Processing Host: SVHPLC

Concentration Formula: Amt * DF * 1/(Vo/1000)*Vt

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume Extracted
Vt	1.000	

					AMOUNTS			
					CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	SIGNAL	RESPONSE	(ug/ml)	(ug/ml)	TARGET RANGE	RATIO
2 Naphthalene						CAS #: 91-20-3		
11.773	11.773	(0.000)	VWD1A	5811	1.00000	1.1	80.00- 120.00	100.00
11.702	11.702	(0.000)	ADC1A	71			0.98- 1.47	1.22
3 Acenaphthylene						CAS #: 208-96-8		
13.000	13.000	(0.000)	VWD1A	4260	1.00000	1.1		(M)
4 1-Methyl naphthalene						CAS #: 90-12-0		
13.613	13.613	(0.000)	VWD1A	3509			80.00- 120.00	100.00
13.720	13.720	(0.000)	ADC1A	13253	1.00000	0.75	302.15- 453.22	377.69
5 2-Methyl naphthalene						CAS #: 91-57-6		
13.956	13.956	(0.000)	VWD1A	4789	1.00000	1.1	80.00- 120.00	100.00
14.047	14.047	(0.000)	ADC1A	18632			311.25- 466.87	389.06

RT	EXP RT	DLT RT	SIGNAL	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
6 Acenaphthene							CAS #: 83-32-9		
14.293	14.293	(0.000)	VWD1A	2506			80.00- 120.00	100.00	
14.384	14.384	(0.000)	ADC1A	17081	1.00000	0.73	545.28- 817.92	681.60	
7 Fluorene							CAS #: 86-73-7		
14.653	14.653	(0.000)	VWD1A	24595	1.00000	1.0			
8 Phenanthrene							CAS #: 85-01-8		
15.456	15.456	(0.000)	VWD1A	65739			80.00- 120.00	100.00	(M)
15.550	15.550	(0.000)	ADC1A	534986	1.00000	0.95	651.04- 976.56	813.80	
9 Anthracene							CAS #: 120-12-7		
16.183	16.183	(0.000)	VWD1A	165907	1.00000	1.2	80.00- 120.00	100.00	(M)
16.277	16.277	(0.000)	ADC1A	1305385			629.45- 944.18	786.82	
10 Fluoranthene							CAS #: 206-44-0		
17.020	17.020	(0.000)	VWD1A	18079	1.00000	1.2			(M)
11 Pyrene							CAS #: 129-00-0		
17.563	17.563	(0.000)	VWD1A	14923	1.00000	1.1	80.00- 120.00	100.00	(M)
17.655	17.655	(0.000)	ADC1A	841598			4511.68-6767.52	5639.60	
$ 12 p-Terphenyl-d14 (SURR)							CAS #: 1718-51-0		
18.553	18.553	(0.000)	VWD1A	14061	1.00000	1.0	80.00- 120.00	100.00	(M)
18.645	18.645	(0.000)	ADC1A	657443			3740.52-5610.78	4675.65	
13 Benzo(a)Anthracene							CAS #: 56-55-3		
19.356	19.356	(0.000)	VWD1A	41421	1.00000	1.1	80.00- 120.00	100.00	(M)
19.450	19.450	(0.000)	ADC1A	618132			1193.85-1790.78	1492.32	
14 Chrysene							CAS #: 218-01-9		
19.750	19.750	(0.000)	VWD1A	57396	1.00000	1.1	80.00- 120.00	100.00	
19.847	19.847	(0.000)	ADC1A	1476646			2058.19-3087.28	2572.73	
15 Benzo(b)Fluoranthene							CAS #: 205-99-2		
21.163	21.163	(0.000)	VWD1A	38512	1.00000	0.94	80.00- 120.00	100.00	(M)
21.259	21.259	(0.000)	ADC1A	40119			83.34- 125.01	104.17	
16 Benzo(k)Fluoranthene							CAS #: 207-08-9		
21.790	21.790	(0.000)	VWD1A	33342	1.00000	1.1	80.00- 120.00	100.00	(M)
21.885	21.885	(0.000)	ADC1A	53901			129.33- 193.99	161.66	
17 Benzo(a)pyrene							CAS #: 50-32-8		
22.386	22.386	(0.000)	VWD1A	41334			80.00- 120.00	100.00	
22.485	22.485	(0.000)	ADC1A	185342	1.00000	0.86	358.72- 538.08	448.40	

					AMOUNTS CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	SIGNAL	RESPONSE	(ug/ml)	(ug/ml)	TARGET RANGE	RATIO
18 Dibenz(ah)Anthracene						CAS #: 53-70-3		
23.366	23.366	(0.000)	VWD1A	9464	1.00000	1.1	80.00- 120.00	100.00 (M)
23.467	23.467	(0.000)	ADC1A	41348			349.52- 524.28	436.90
19 Benzo(ghi)Perylene						CAS #: 191-24-2		
24.090	24.090	(0.000)	VWD1A	12364	1.00000	0.87	80.00- 120.00	100.00 (M)
24.197	24.197	(0.000)	ADC1A	33627			217.58- 326.37	271.98
20 Indeno(123cd)Pyrene						CAS #: 193-39-5		
24.566	24.566	(0.000)	VWD1A	30982	1.00000	0.84		(M)

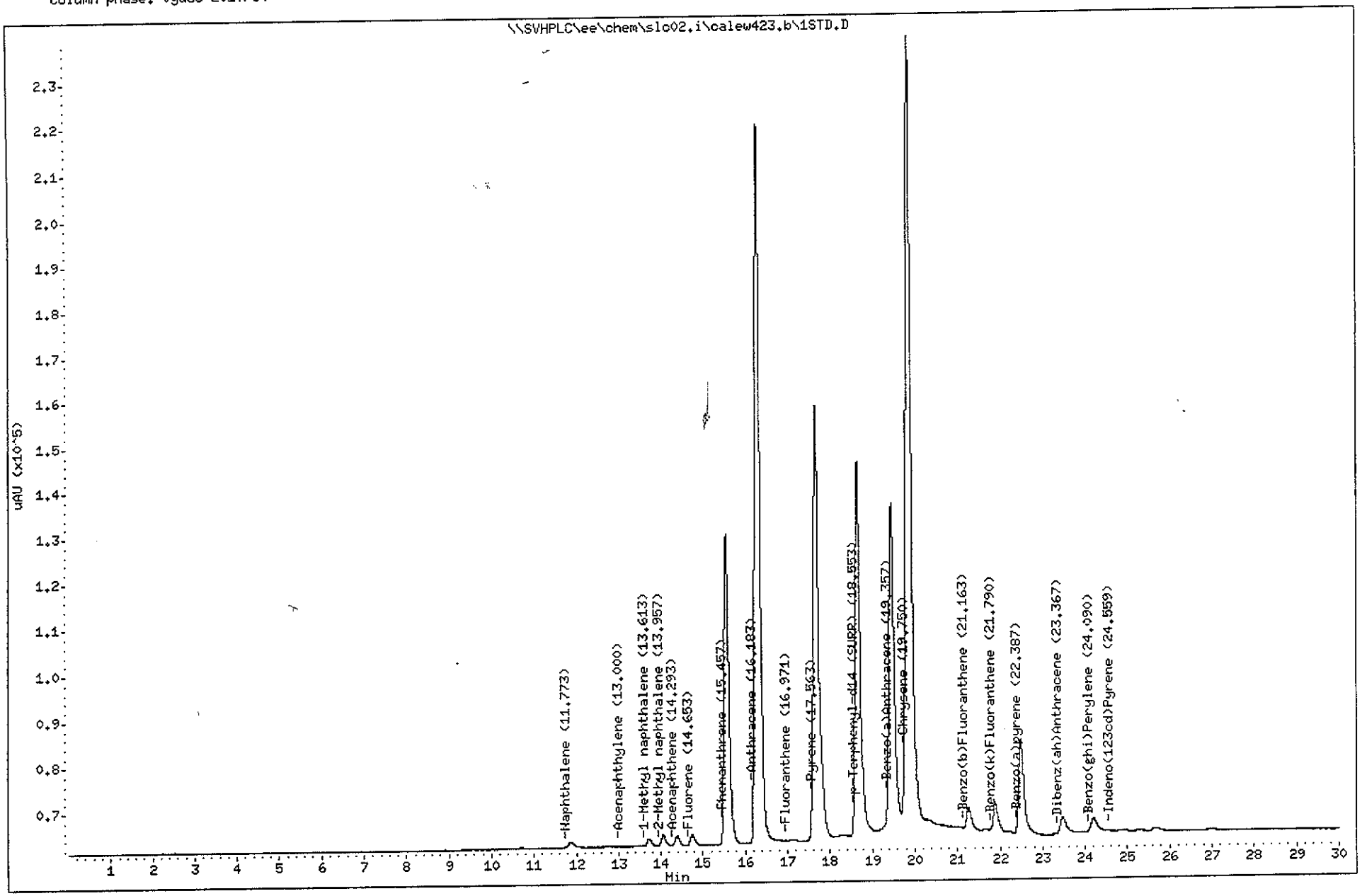
QC Flag Legend

M - Compound response manually integrated.

Data File: \\SVHPLC\ee\chem\slc02.i\calew423.b\1STD.D
Date : 22-APR-2002 12:39
Client ID: 1STD
Sample Info: SV4687
Purge Volume: 1000.0
Column phase: Vydac 201TP54

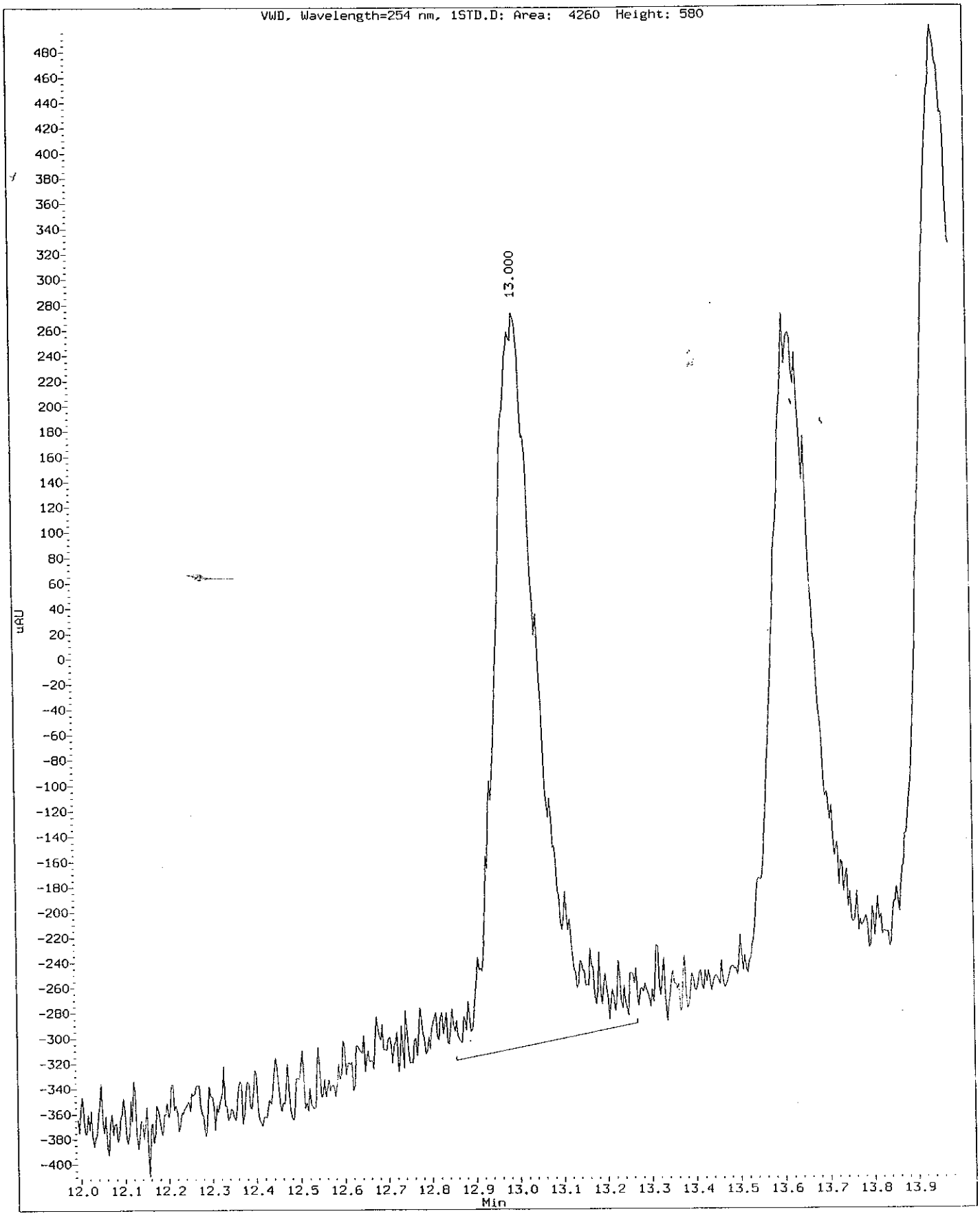
Instrument: slc02.i

Operator: dent
Column diameter: 4.60



Data File: \\SVHPLC\ee\chem\slc02.i\calew423.b\1STD.D
Injection Date: 22-APR-2002 12:39
Instrument: slc02.i
Client Sample ID: 1STD

Compound: Acenaphthylene
CAS Number: 208-96-8



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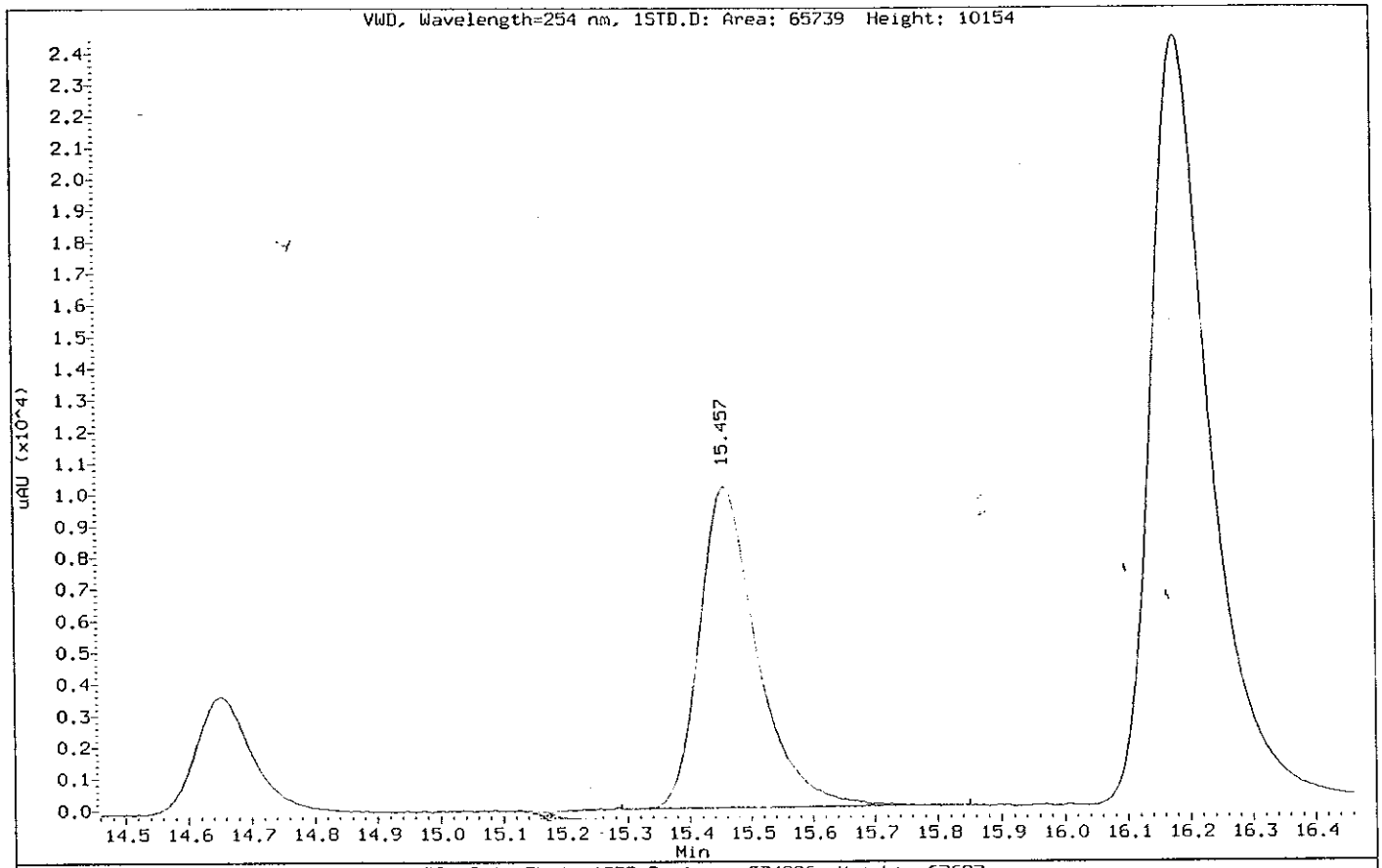
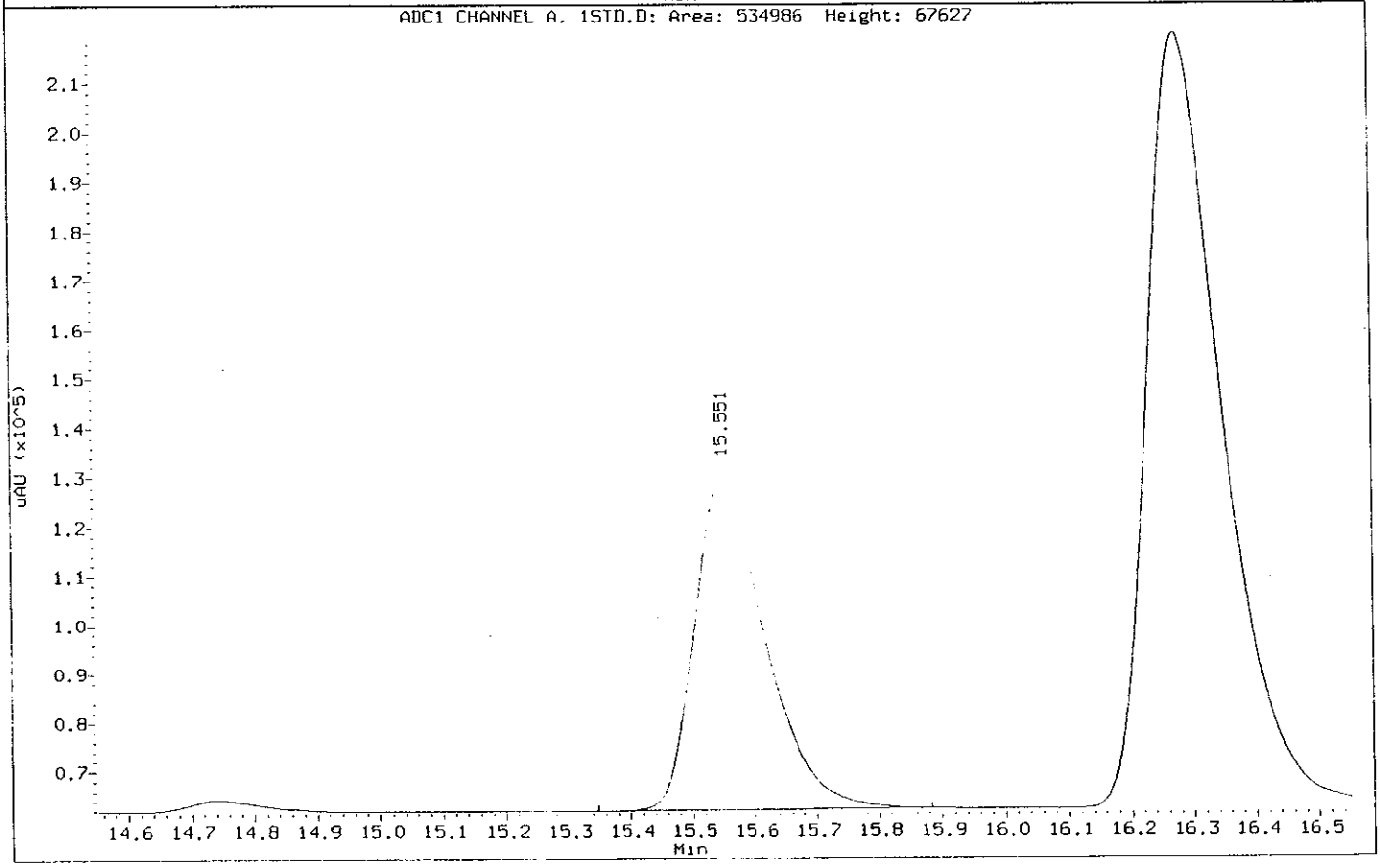
Injection Date: 22-APR-2002 12:39
Instrument: slc02.i
Client Sample ID: 1STD

Compound: Phenanthrene
CAS Number: 85-01-8





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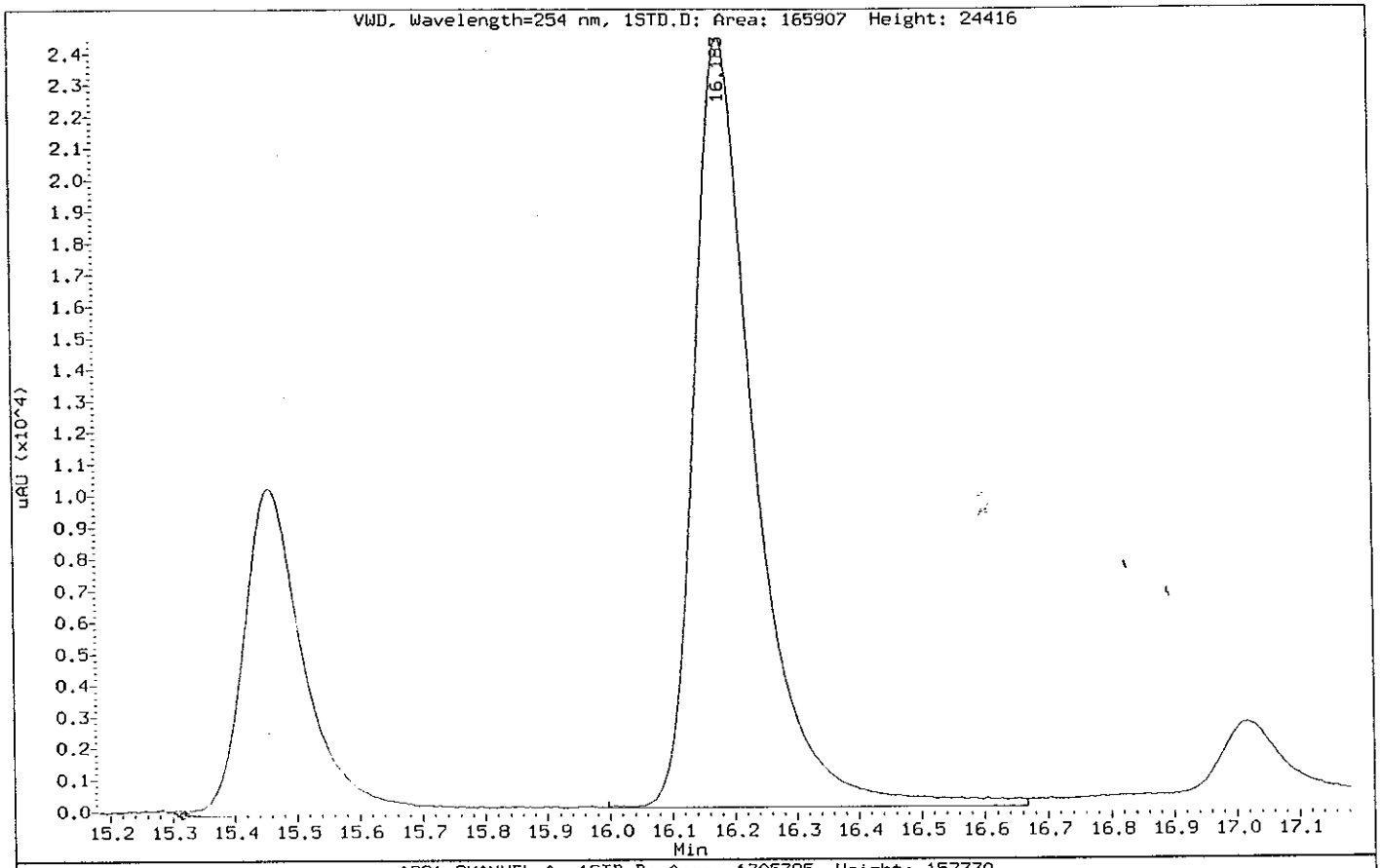
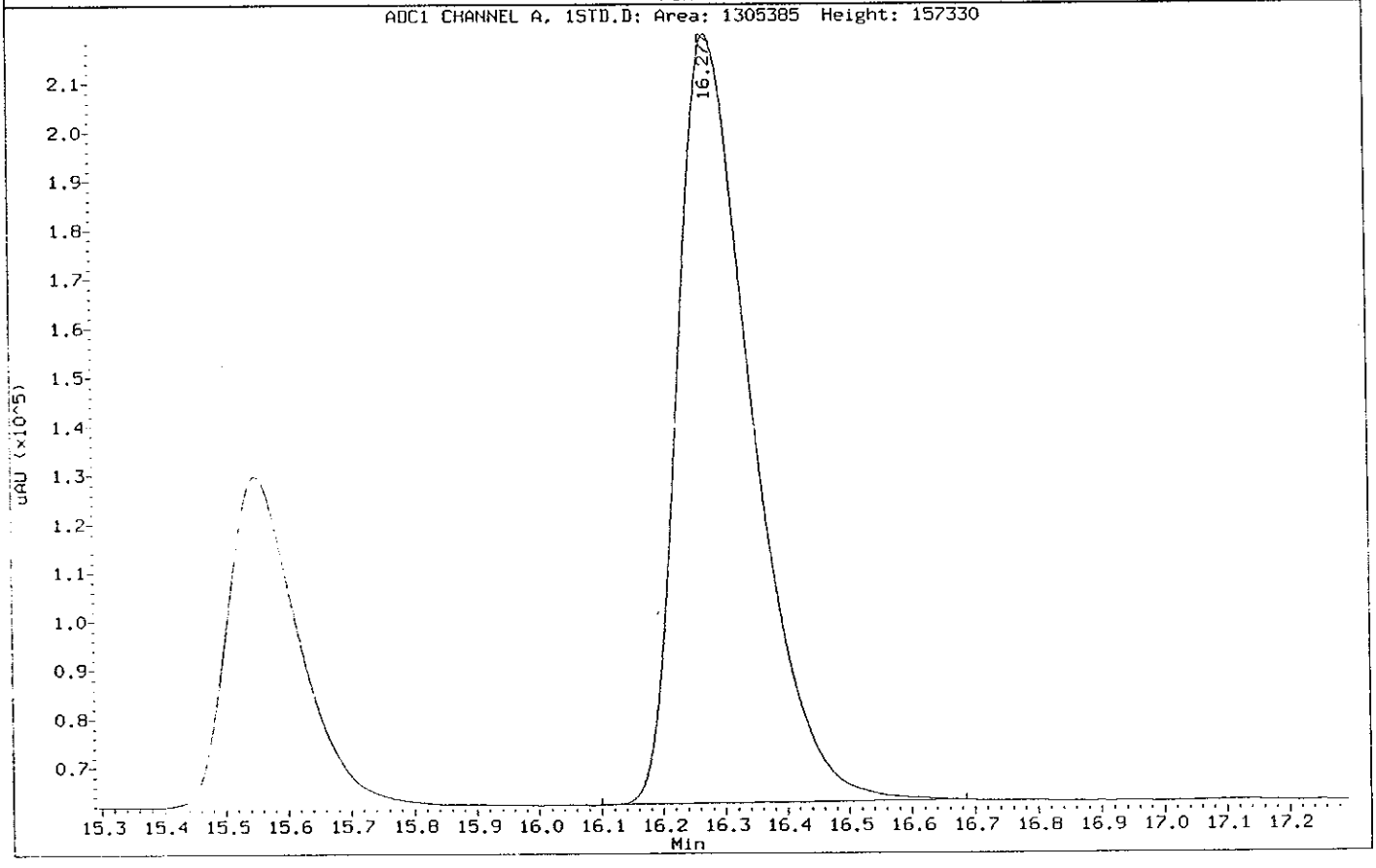
Injection Date: 22-APR-2002 12:39
Instrument: slc02.i
Client Sample ID: 1STD

Compound: Anthracene
CAS Number: 120-12-7





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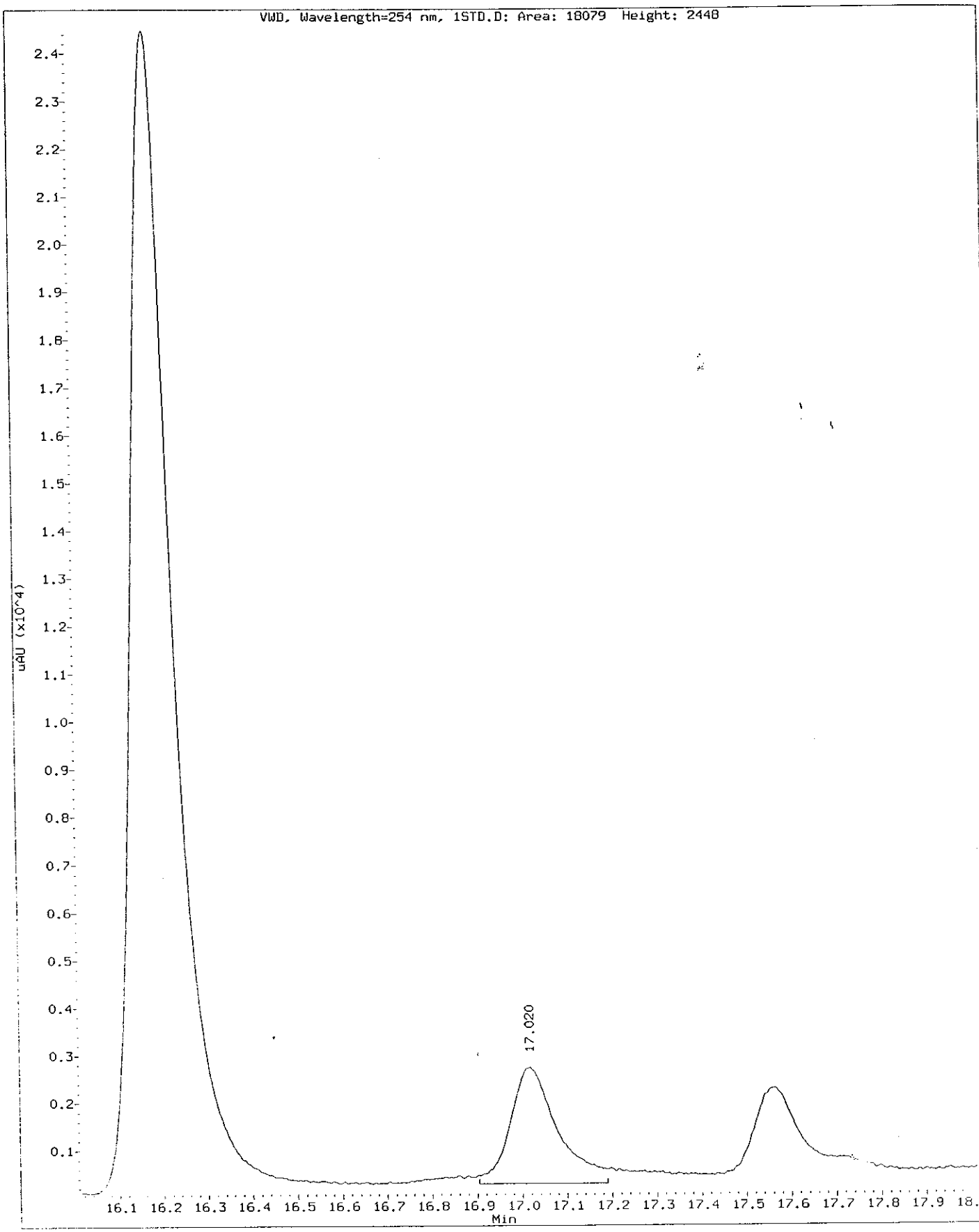
Injection Date: 22-APR-2002 12:39
Instrument: slc02.i
Client Sample ID: 1STD

Compound: Fluoranthene
CAS Number: 206-44-0



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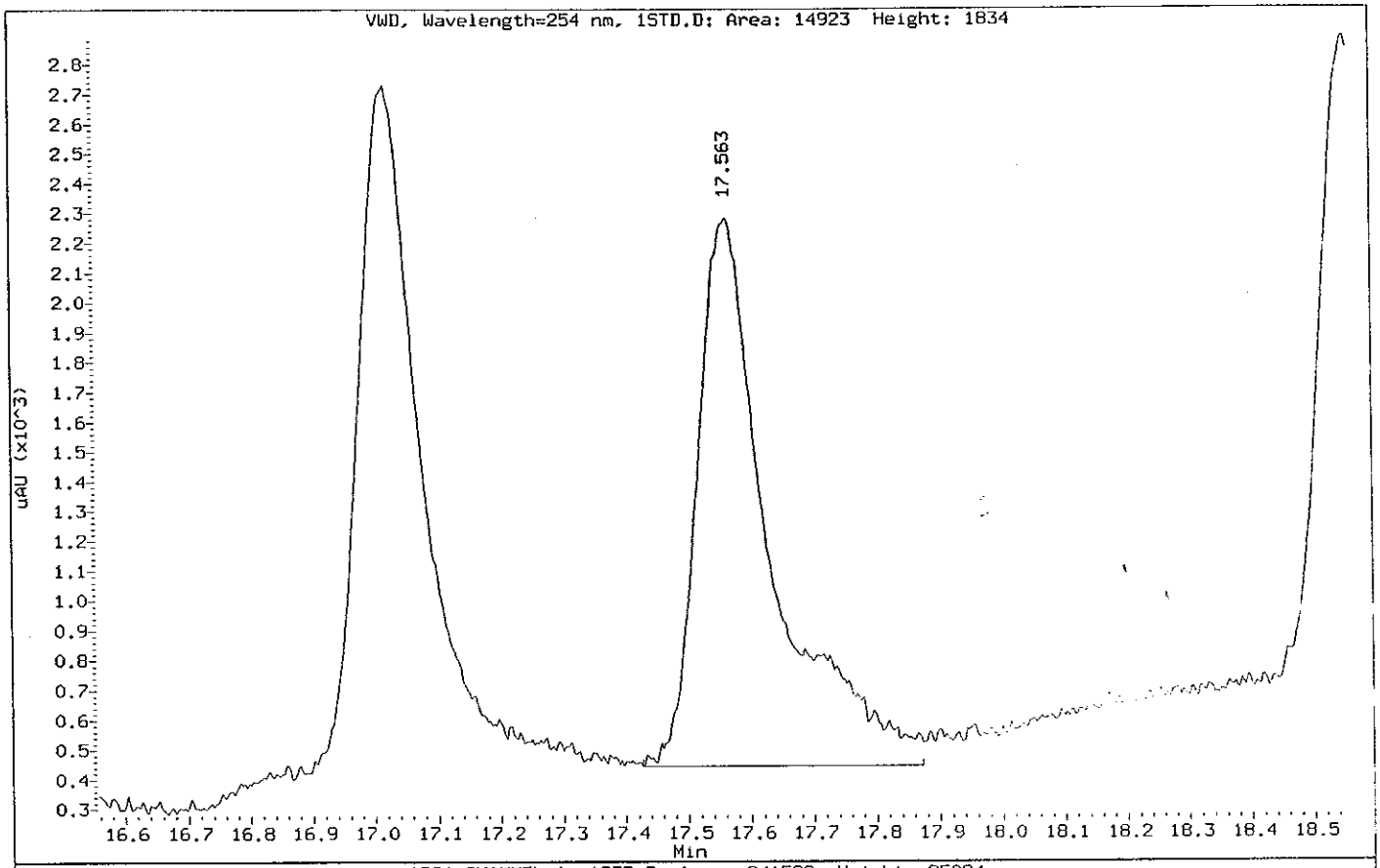
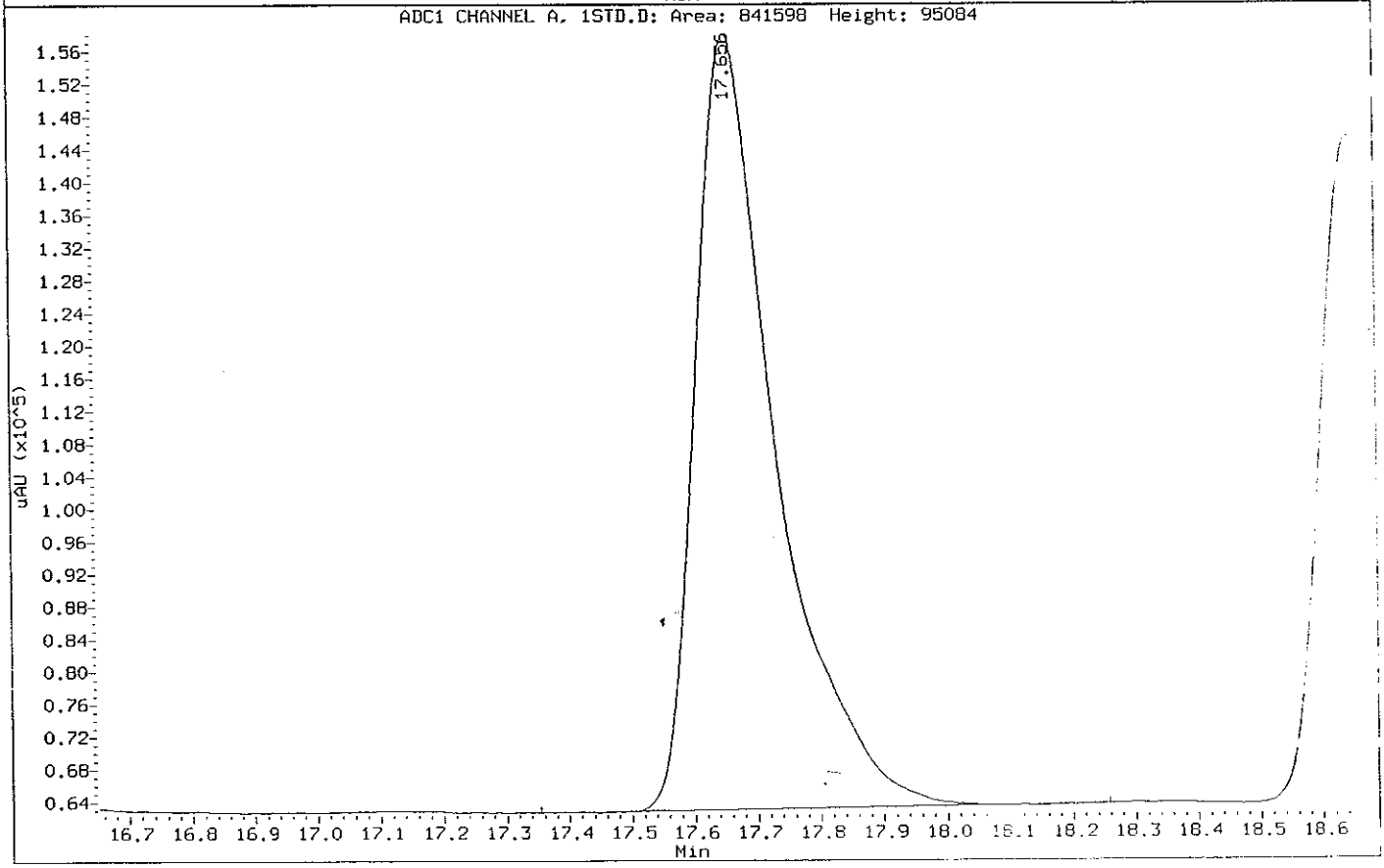
Injection Date: 22-APR-2002 12:39
Instrument: slc02.i
Client Sample ID: 1STD

Compound: Pyrene
CAS Number: 129-00-0





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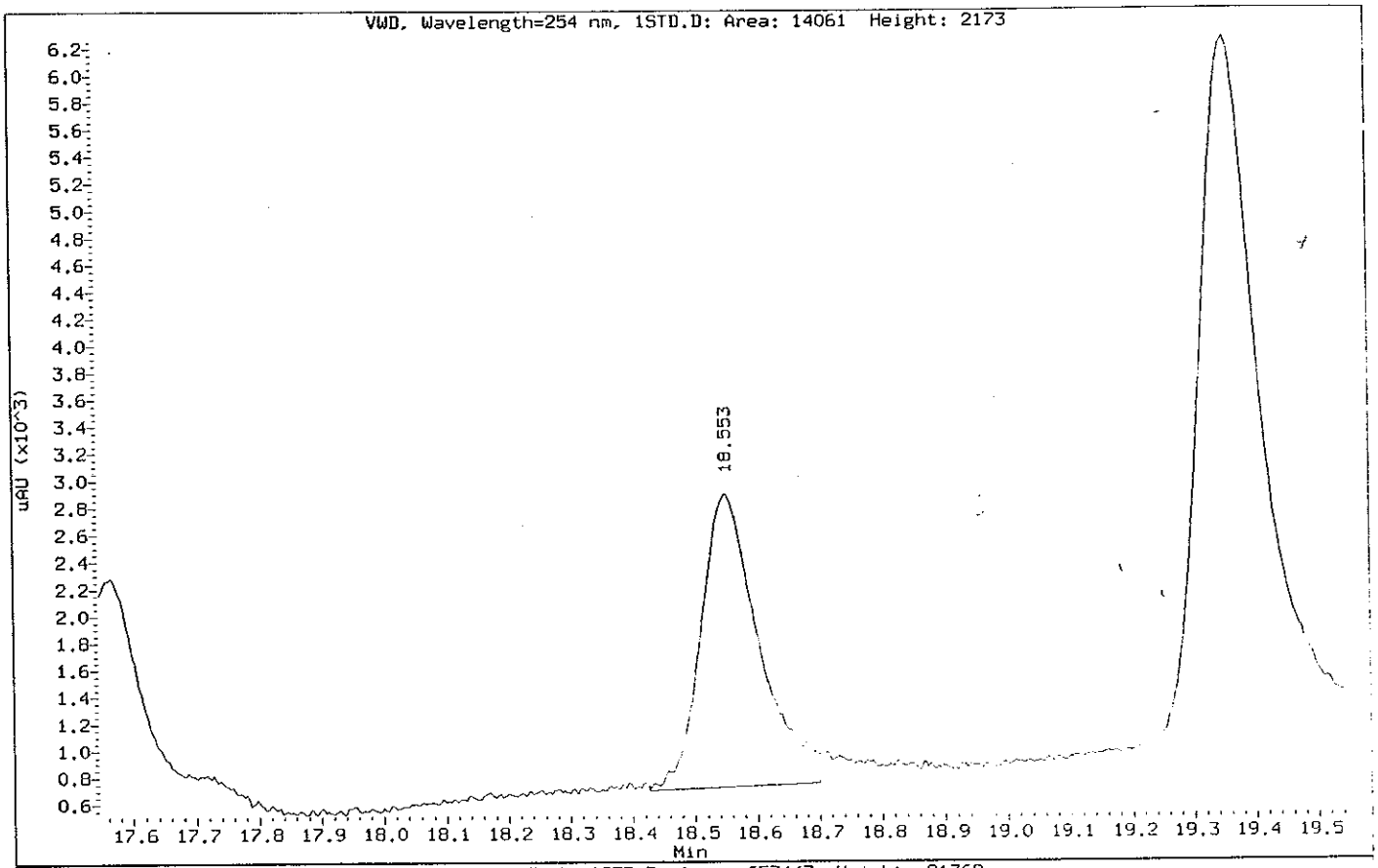
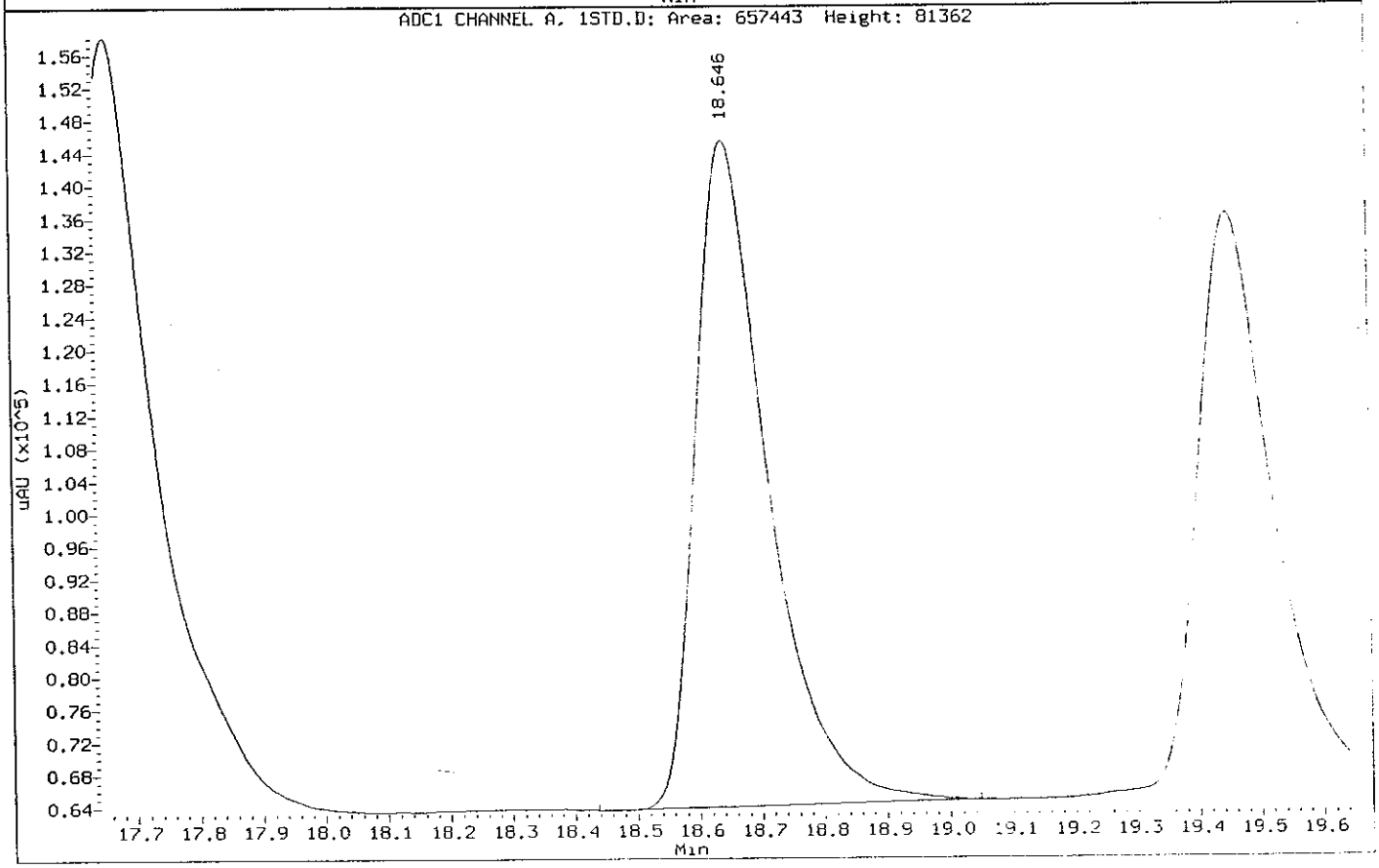
Injection Date: 22-APR-2002 12:39
Instrument: slc02.i
Client Sample ID: 1STD

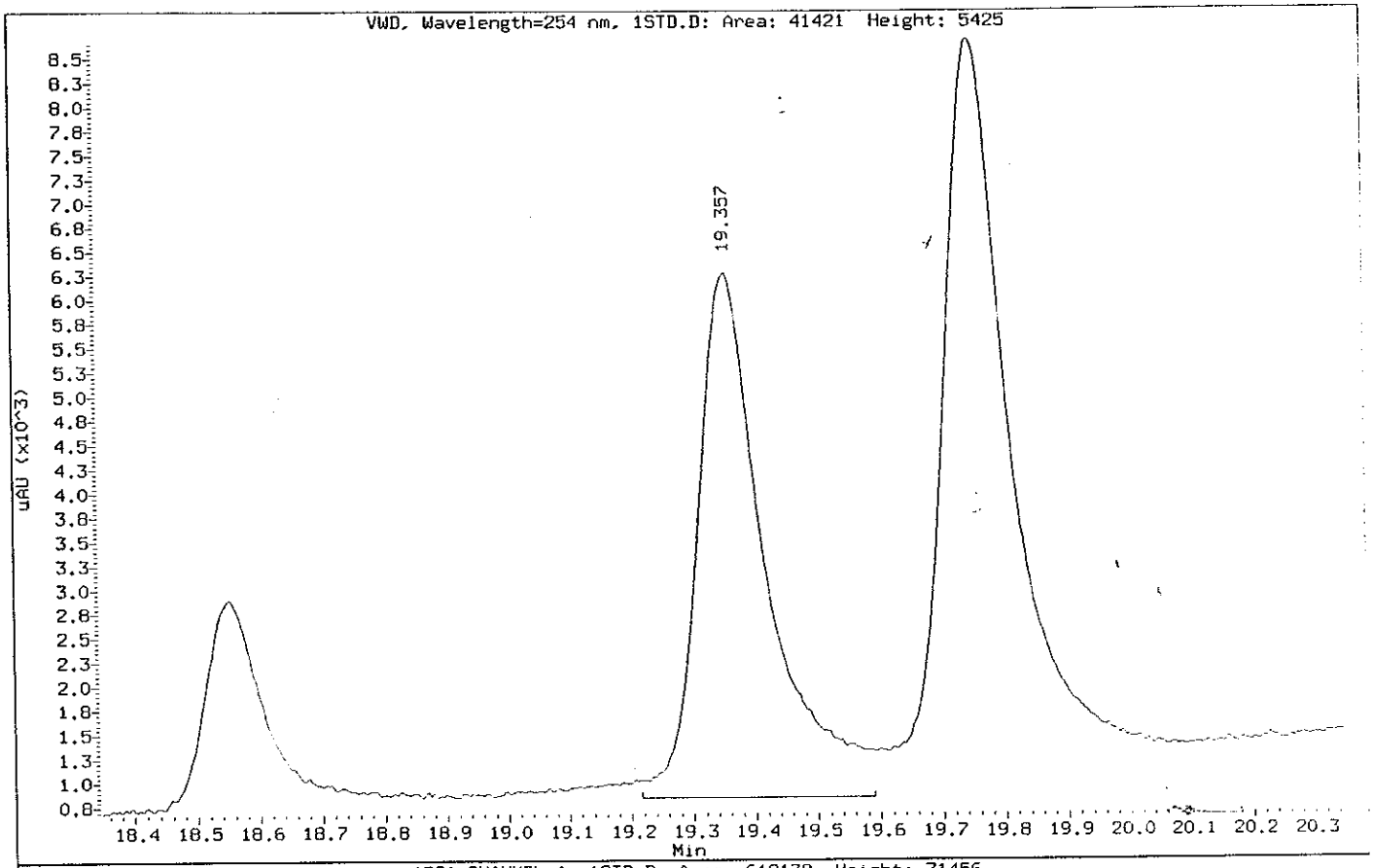
Compound: p-Terphenyl-d14 (SURR)
CAS Number: 1718-51-0

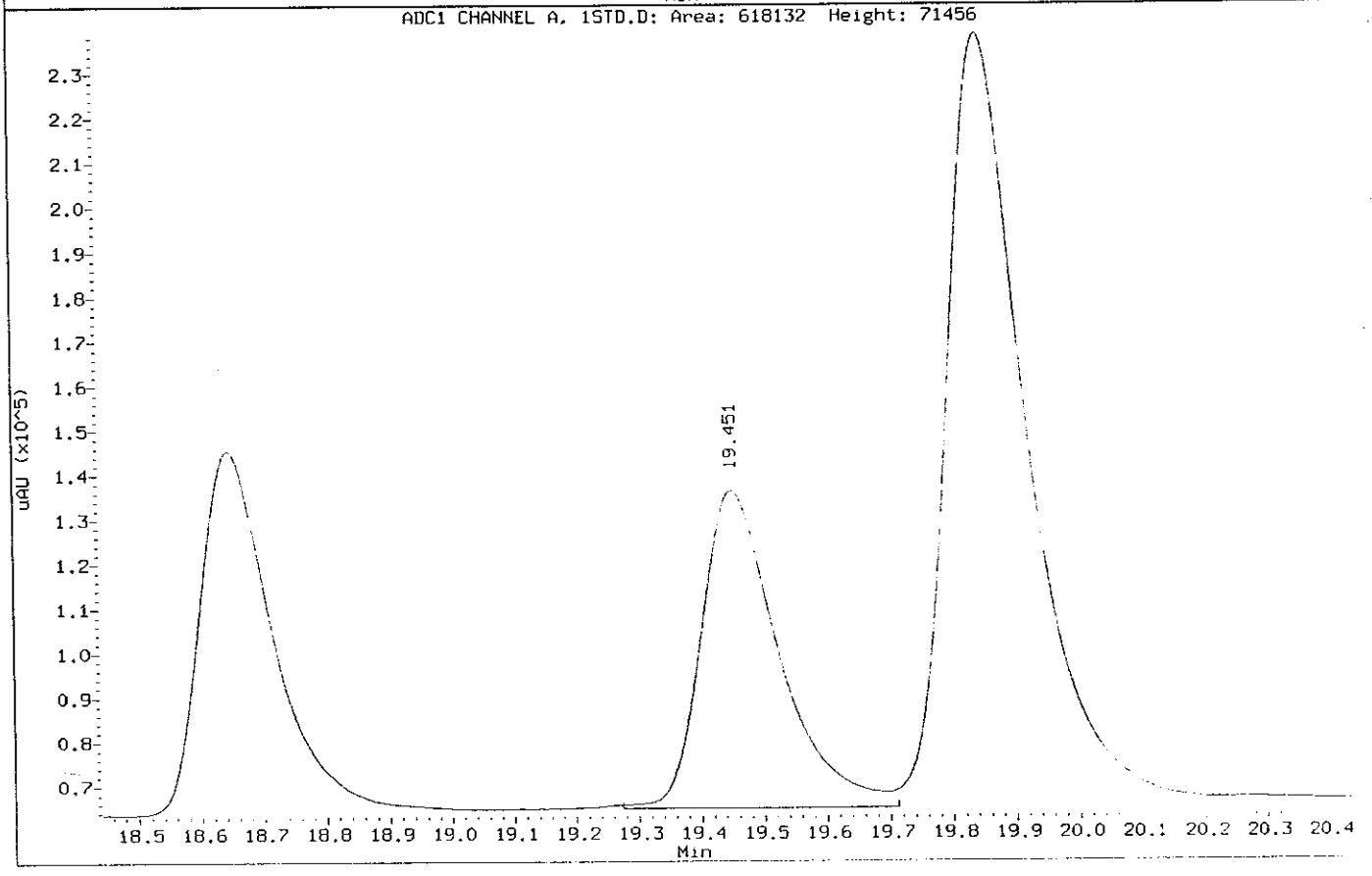




Data File: \\SVHPLC\ee\chem\slc02.i\calew423.b\1STD.D
Injection Date: 22-APR-2002 12:39
Instrument: slc02.i
Client Sample ID: 1STD

Compound: Benzo(a)Anthracene
CAS Number: 56-55-3





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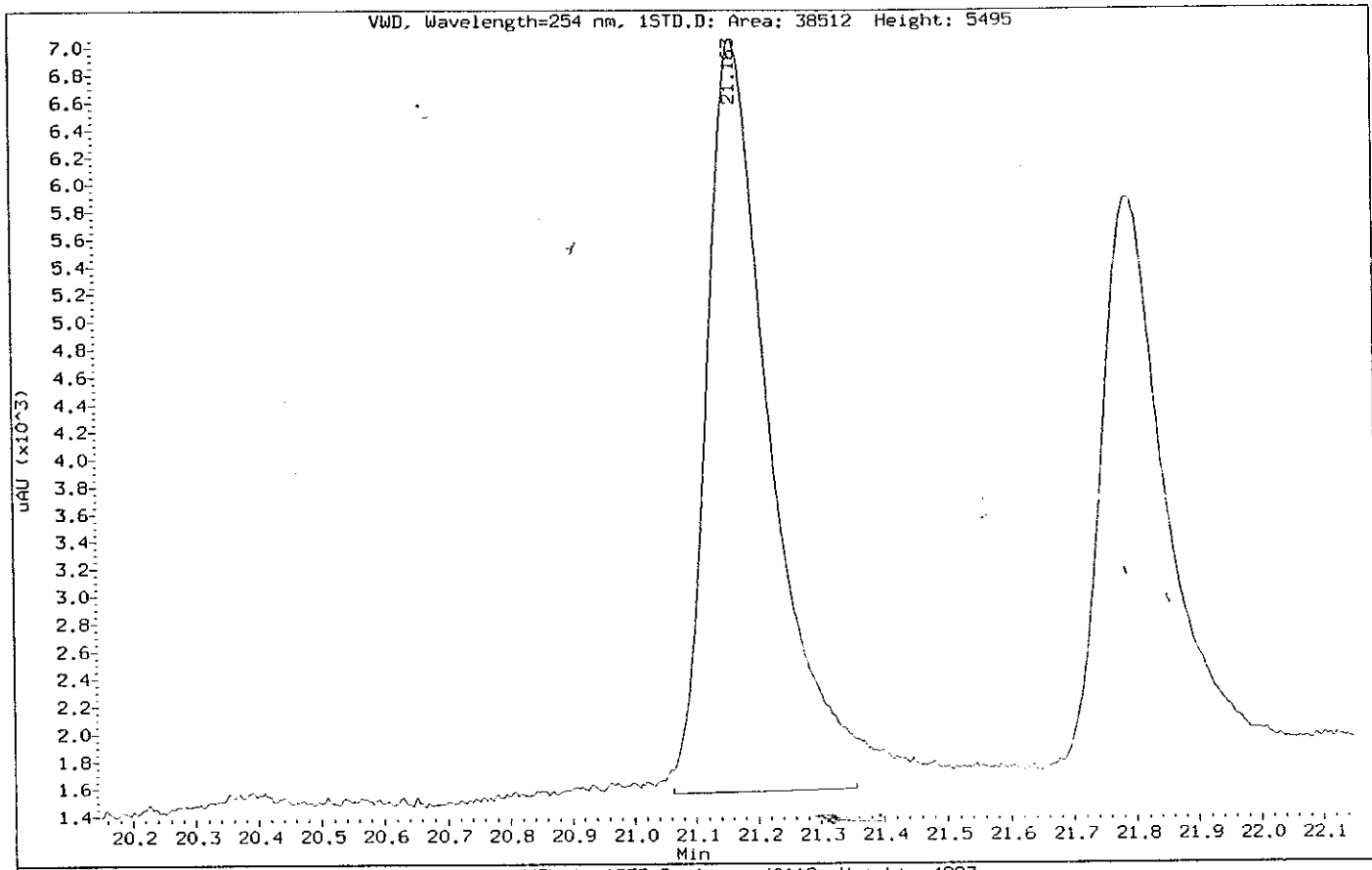
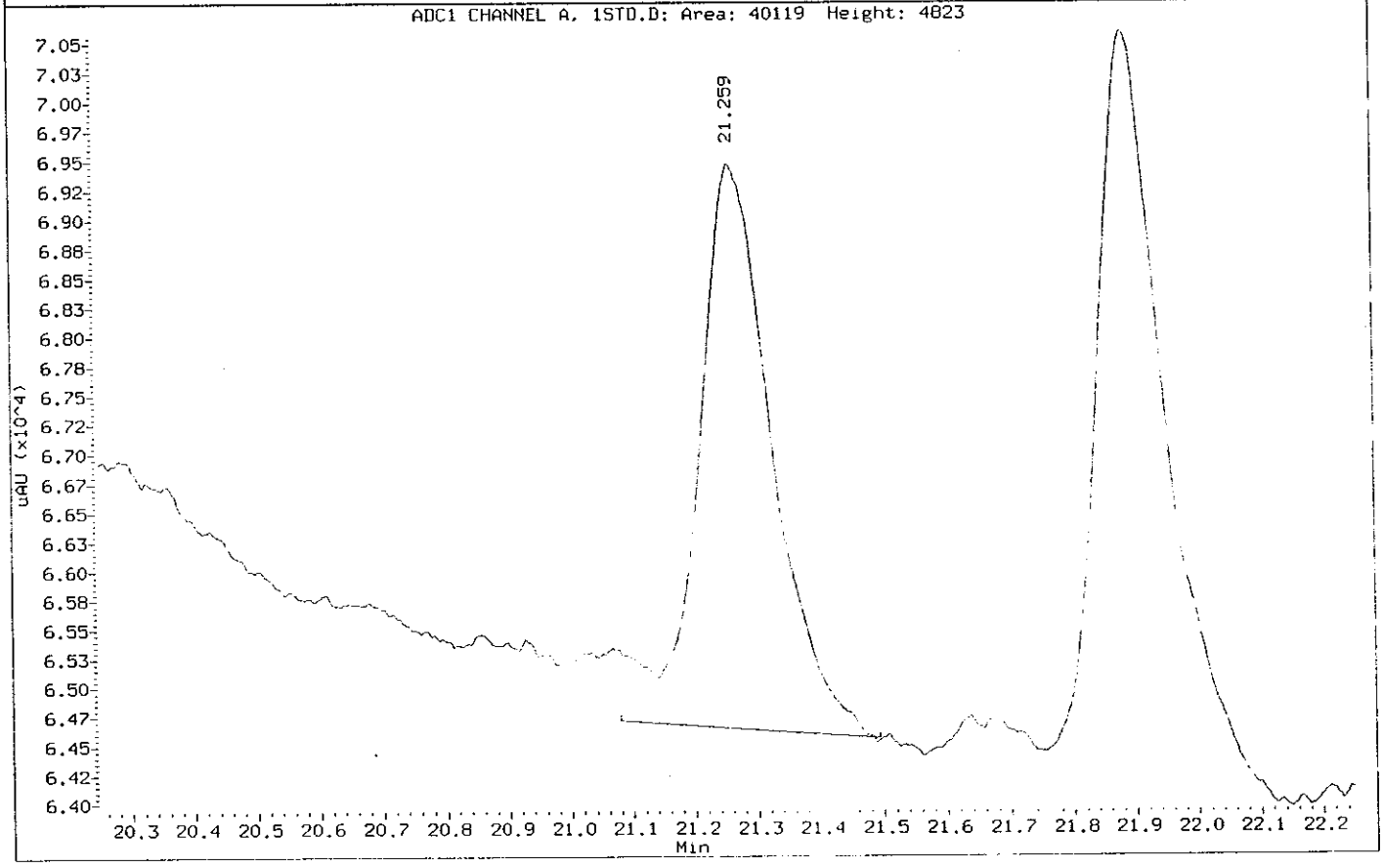
Injection Date: 22-APR-2002 12:39
Instrument: slc02.i
Client Sample ID: 1STD

Compound: Benzo(b)Fluoranthene
CAS Number: 205-99-2





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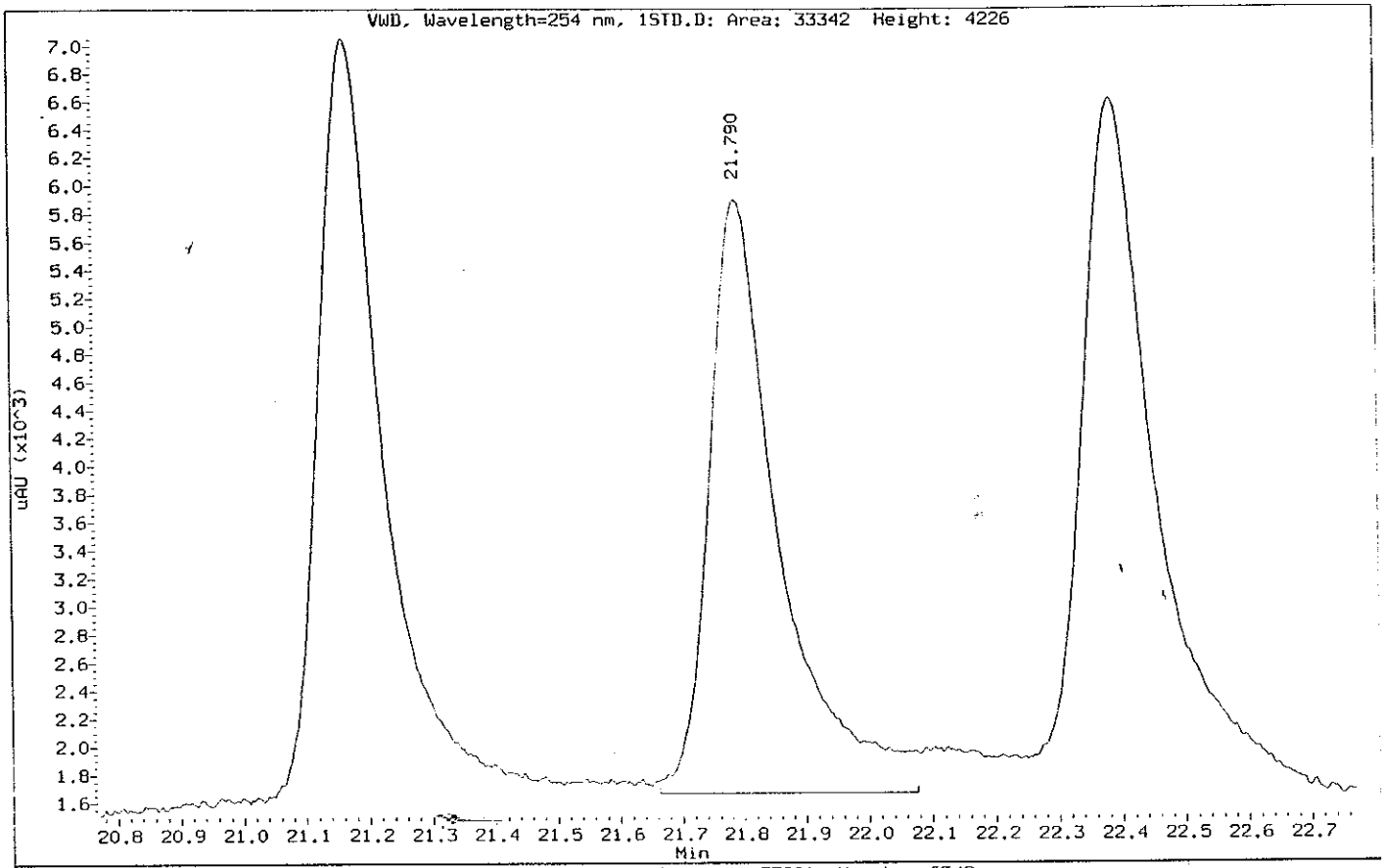
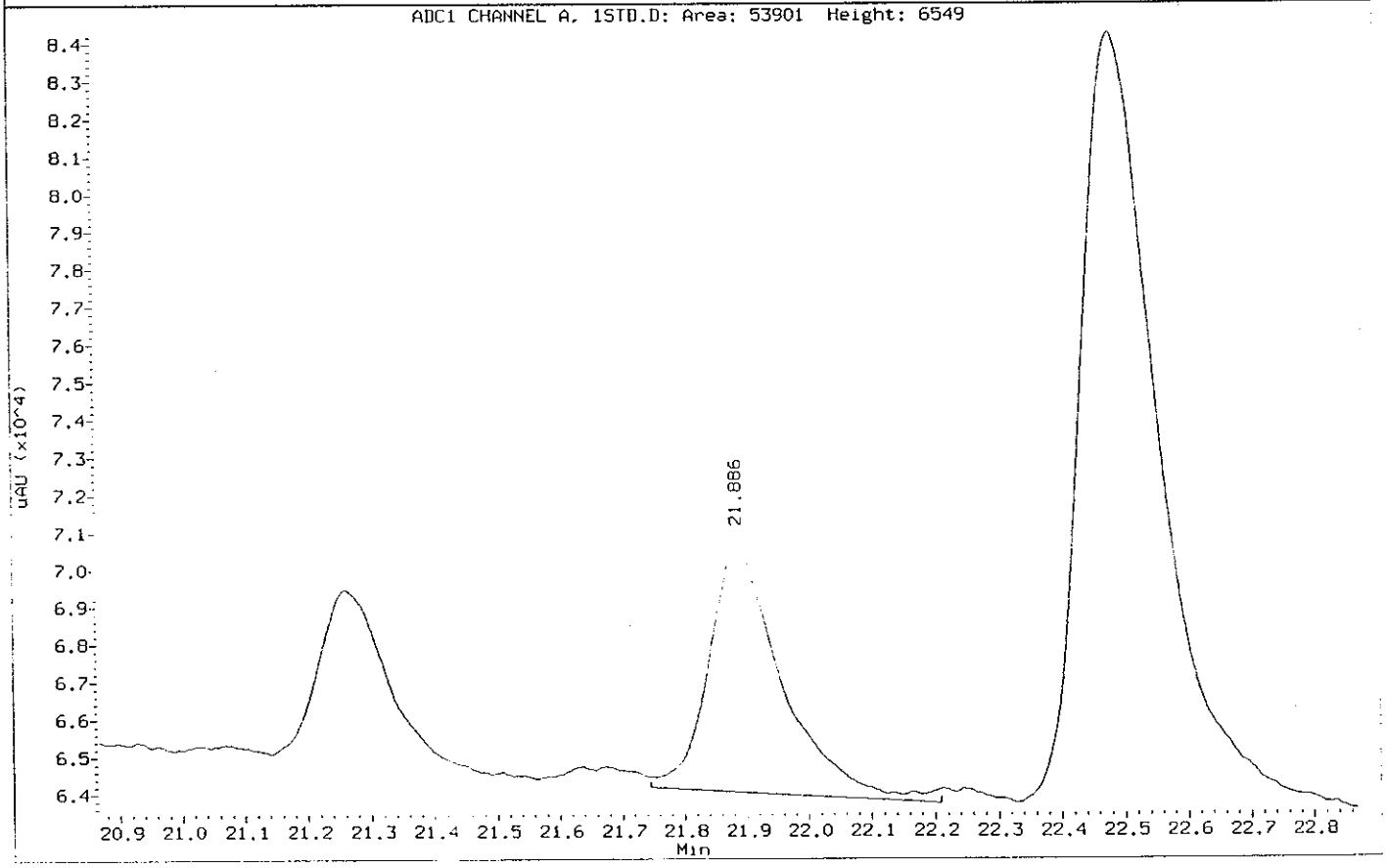
Instrument: slc02.i
Client Sample ID: 1STD

Compound: Benzo(k)Fluoranthene
CAS Number: 207-08-9





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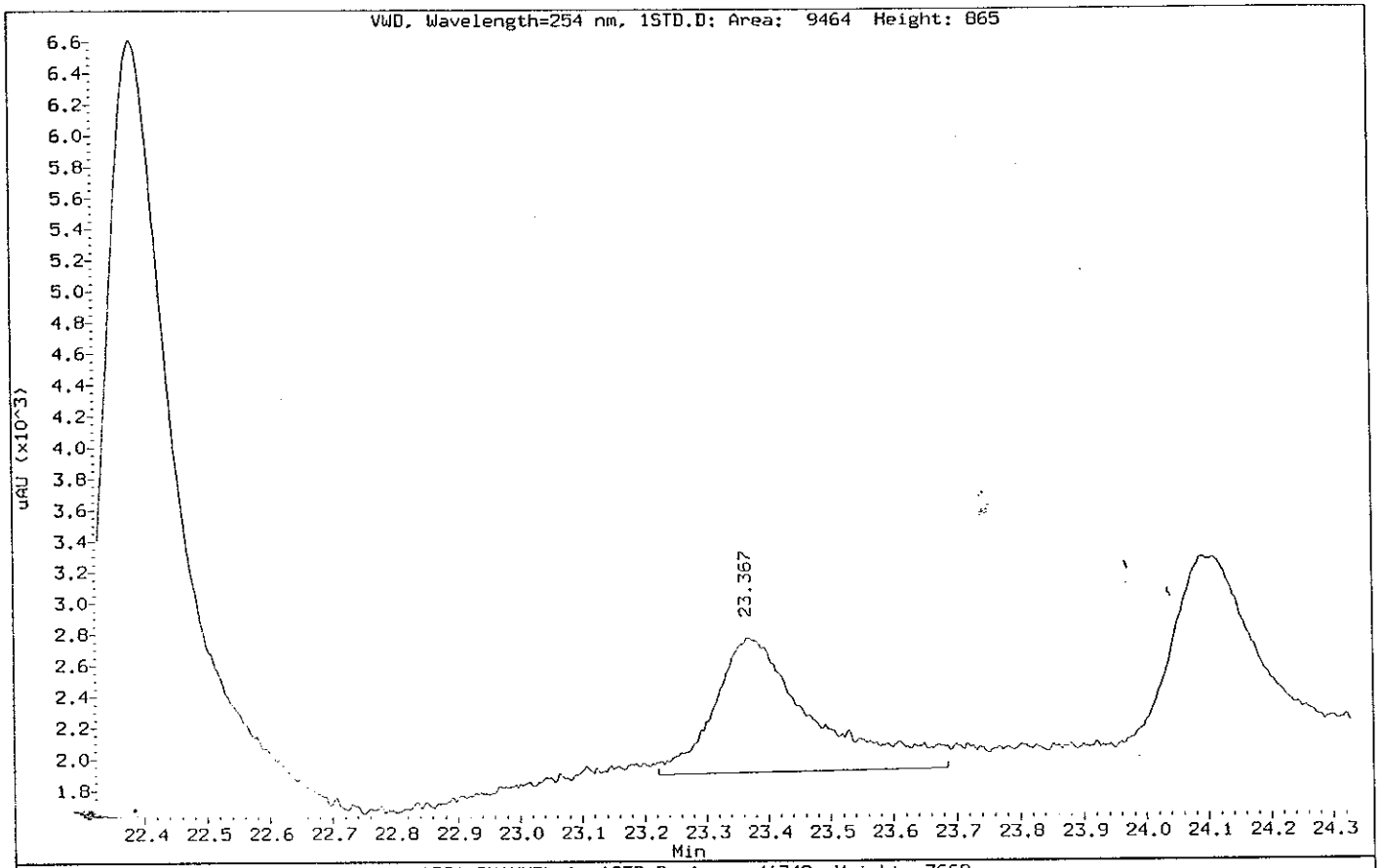
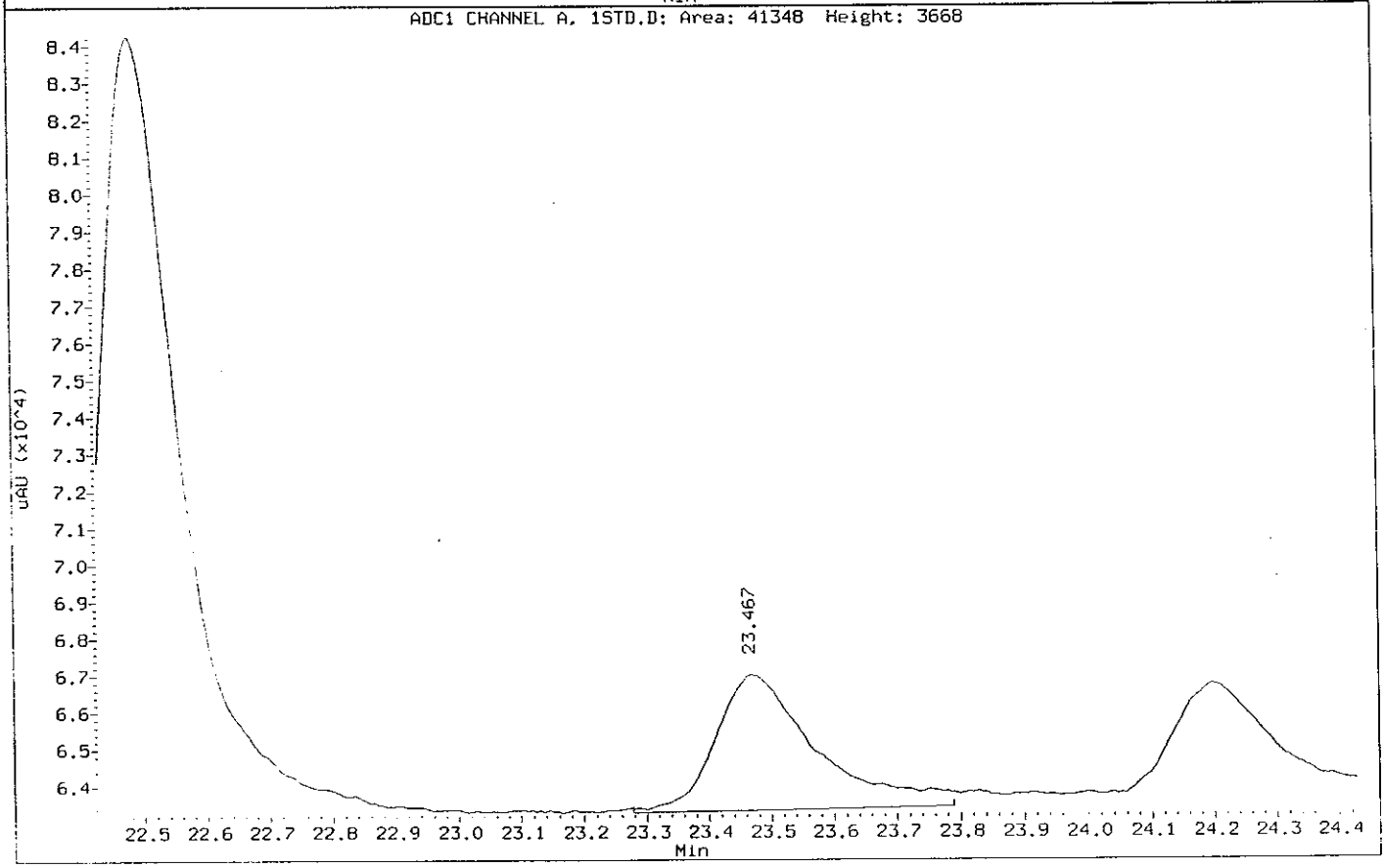
Injection Date: 22-APR-2002 12:39
Instrument: slc02.i
Client Sample ID: 1STD

Compound: Dibenz(ah)Anthracene
CAS Number: 53-70-3





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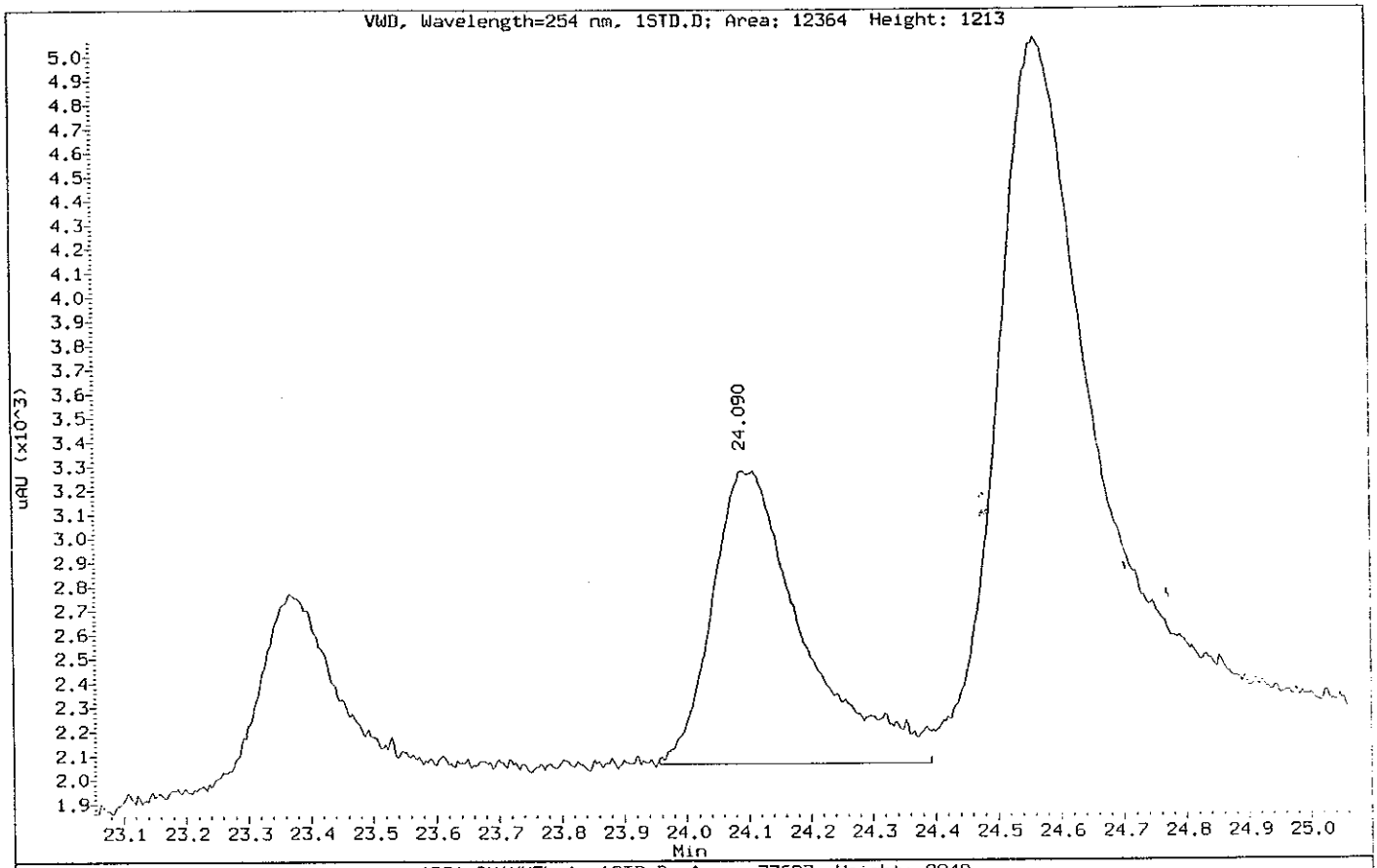
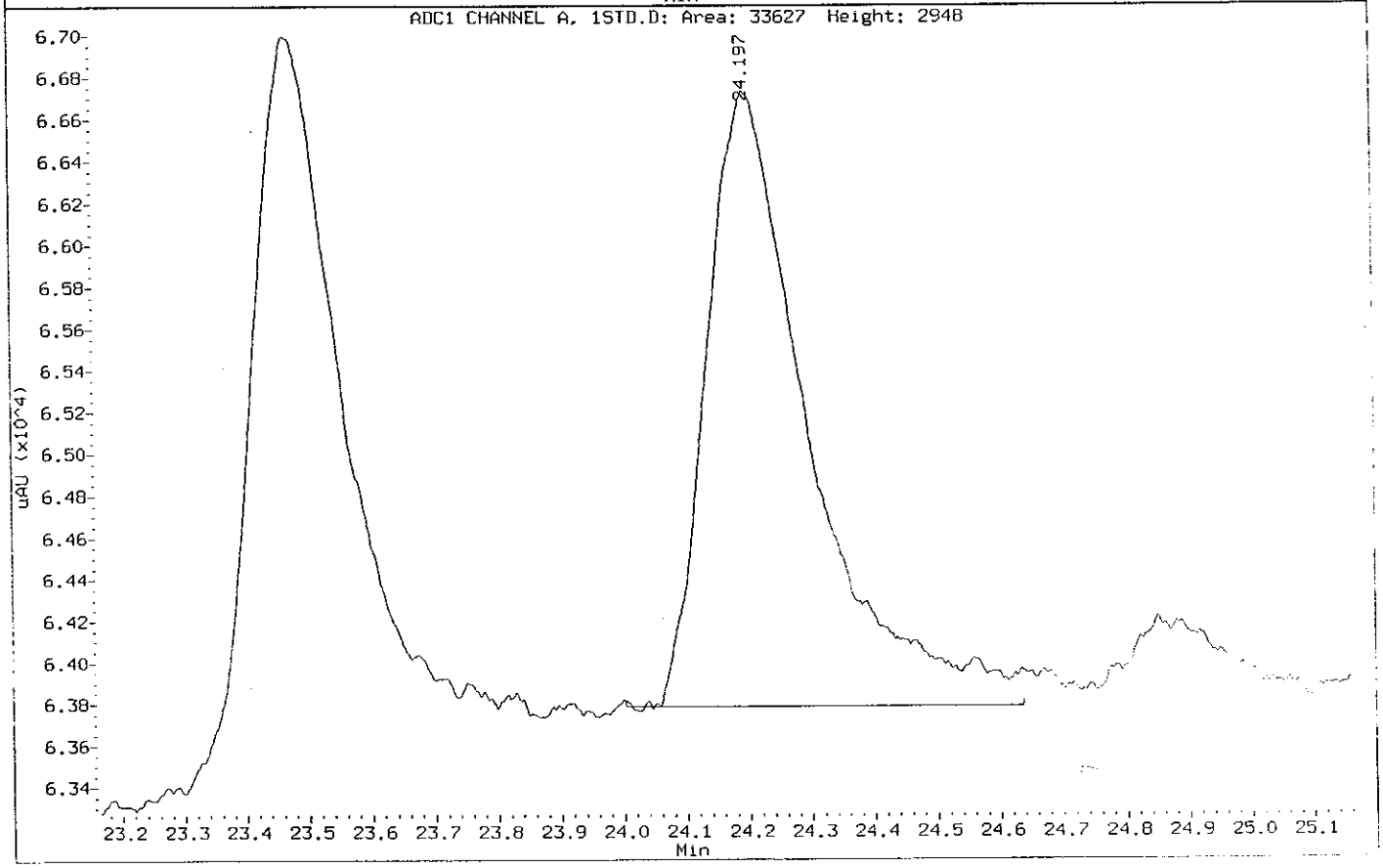
Injection Date: 22-APR-2002 12:39
Instrument: slc02.i
Client Sample ID: 1STD

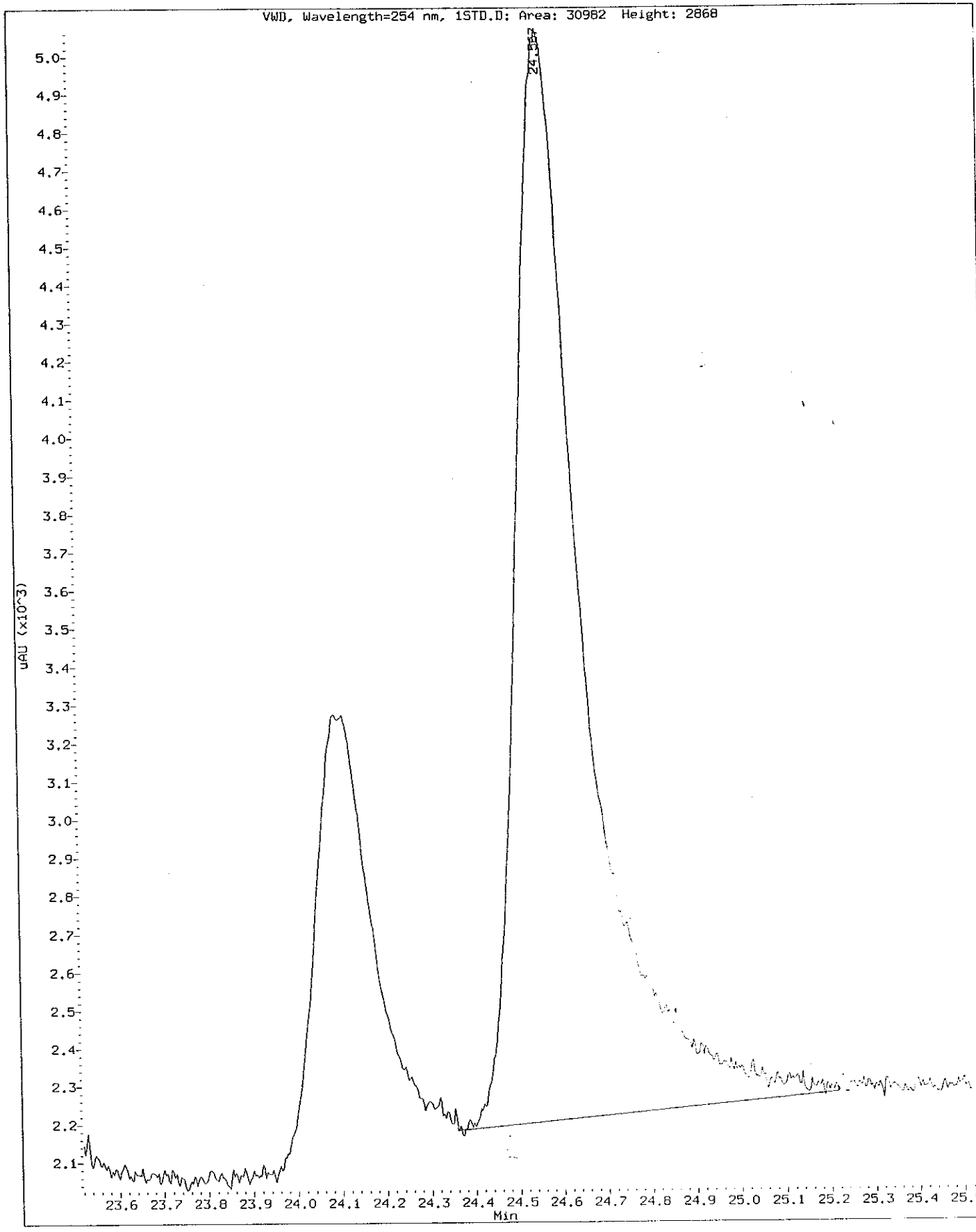
Compound: Benzo(ghi)Perylene
CAS Number: 191-24-2





Data File: \\SVHPLC\ee\chem\slc02.i\calew423.b\1STD.D
Injection Date: 22-APR-2002 12:39
Instrument: slc02.i
Client Sample ID: 1STD

Compound: Indeno(123cd)Pyrene
CAS Number: 193-39-5



PEL Laboratories, Inc.

Data file : \\SVHPLC\ee\chem\slc02.i\calew423.b\5STD.D
Lab Smp Id: SV4686 Client Smp ID: 5STD
Inj Date : 22-APR-2002 13:14
Operator : dent Inst ID: slc02.i
Smp Info : SV4686
Misc Info :
Comment :
Method : \\Svhplc\ee\chem\slc02.i\calew423.b\8310AE.m
Meth Date : 17-May-2002 13:23 tscott Quant Type: ESTD
Cal Date : 22-APR-2002 15:32 Cal File: 30STD.D
Als bottle: 3 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.04 Sample Matrix: WATER
Processing Host: SVHPLC

Concentration Formula: Amt * DF * 1/(Vo/1000)*Vt

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume Extracted
Vt	1.000	

					AMOUNTS				
					CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	SIGNAL	RESPONSE	(ug/ml)	(ug/ml)	TARGET RANGE		RATIO
2 Naphthalene							CAS #: 91-20-3		
11.766	11.766	(0.000)	VWD1A	26425	5.00000	5.1	80.00- 120.00	100.00	(M)
11.860	11.860	(0.000)	ADC1A	55824			169.00- 253.51	211.25	
3 Acenaphthylene							CAS #: 208-96-8		
12.996	12.996	(0.000)	VWD1A	20404	5.00000	5.2			(H)
4 1-Methyl naphthalene							CAS #: 90-12-0		
13.623	13.623	(0.000)	VWD1A	16276			80.00- 120.00	100.00	
13.715	13.715	(0.000)	ADC1A	71479	5.00000	4.0	351.33- 527.00	439.17	
5 2-Methyl naphthalene							CAS #: 91-57-6		
13.960	13.960	(0.000)	VWD1A	22298	5.00000	5.1	80.00- 120.00	100.00	
14.050	14.050	(0.000)	ADC1A	108183			388.14- 582.20	485.17	

RT	EXP RT	DLT RT	SIGNAL	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
6 Acenaphthene							CAS #: 83-32-9	
14.290	14.290	(0.000)	VWD1A	9994			80.00- 120.00	100.00
14.388	14.388	(0.000)	ADC1A	96281	5.00000	4.1	770.71-1156.07	963.39
7 Fluorene							CAS #: 86-73-7	
14.653	14.653	(0.000)	VWD1A	116918	5.00000	4.9		
8 Phenanthrene							CAS #: 85-01-8	
15.463	15.463	(0.000)	VWD1A	326057			80.00- 120.00	100.00(M)
15.555	15.555	(0.000)	ADC1A	2805747	5.00000	5.0	688.41-1032.61	860.51
9 Anthracene							CAS #: 120-12-7	
16.190	16.190	(0.000)	VWD1A	777538	5.00000	5.4	80.00- 120.00	100.00(M)
16.290	16.290	(0.000)	ADC1A	6548998			673.82-1010.73	842.27
10 Fluoranthene							CAS #: 206-44-0	
17.023	17.023	(0.000)	VWD1A	80140	5.00000	5.1		
11 Pyrene							CAS #: 129-00-0	
17.566	17.566	(0.000)	VWD1A	69725	5.00000	5.0	80.00- 120.00	100.00
17.661	17.661	(0.000)	ADC1A	4414614			5065.17-7597.76	6331.47
$ 12 p-Terphenyl-d14 (SURR)							CAS #: 1718-51-0	
18.556	18.556	(0.000)	VWD1A	70893	5.00000	5.1	80.00- 120.00	100.00
18.651	18.651	(0.000)	ADC1A	3374575			3808.08-5712.12	4760.10
13 Benzo(a)Anthracene							CAS #: 56-55-3	
19.356	19.356	(0.000)	VWD1A	184176	5.00000	5.0	80.00- 120.00	100.00(M)
19.455	19.455	(0.000)	ADC1A	3065244			1331.44-1997.16	1664.30
14 Chrysene							CAS #: 218-01-9	
19.753	19.753	(0.000)	VWD1A	263863	5.00000	5.1	80.00- 120.00	100.00
19.848	19.848	(0.000)	ADC1A	7307391			2215.51-3323.27	2769.39
15 Benzo(b)Fluoranthene							CAS #: 205-99-2	
21.166	21.166	(0.000)	VWD1A	201033	5.00000	4.9	80.00- 120.00	100.00(M)
21.261	21.261	(0.000)	ADC1A	243226			96.79- 145.19	120.99
16 Benzo(k)Fluoranthene							CAS #: 207-08-9	
21.786	21.786	(0.000)	VWD1A	154389	5.00000	5.0	80.00- 120.00	100.00(M)
21.885	21.885	(0.000)	ADC1A	329478			170.73- 256.09	213.41
17 Benzo(a)pyrene							CAS #: 50-32-8	
22.380	22.380	(0.000)	VWD1A	190202			80.00- 120.00	100.00
22.476	22.476	(0.000)	ADC1A	1049880	5.00000	4.9	441.59- 662.38	551.98

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		
23.356	23.356	(0.000)	VWD1A	38583	5.00000	4.7	80.00- 120.00	100.00(M)
23.456	23.456	(0.000)	ADC1A	256313			531.45- 797.18	664.32
19 Benzo(ghi)Perylene						CAS #: 191-24-2		
24.086	24.086	(0.000)	VWD1A	67886	5.00000	4.8	80.00- 120.00	100.00(M)
24.186	24.186	(0.000)	ADC1A	234025			275.79- 413.68	344.73
20 Indeno(123cd)Pyrene						CAS #: 193-39-5		
24.550	24.550	(0.000)	VWD1A	172961	5.00000	4.7		

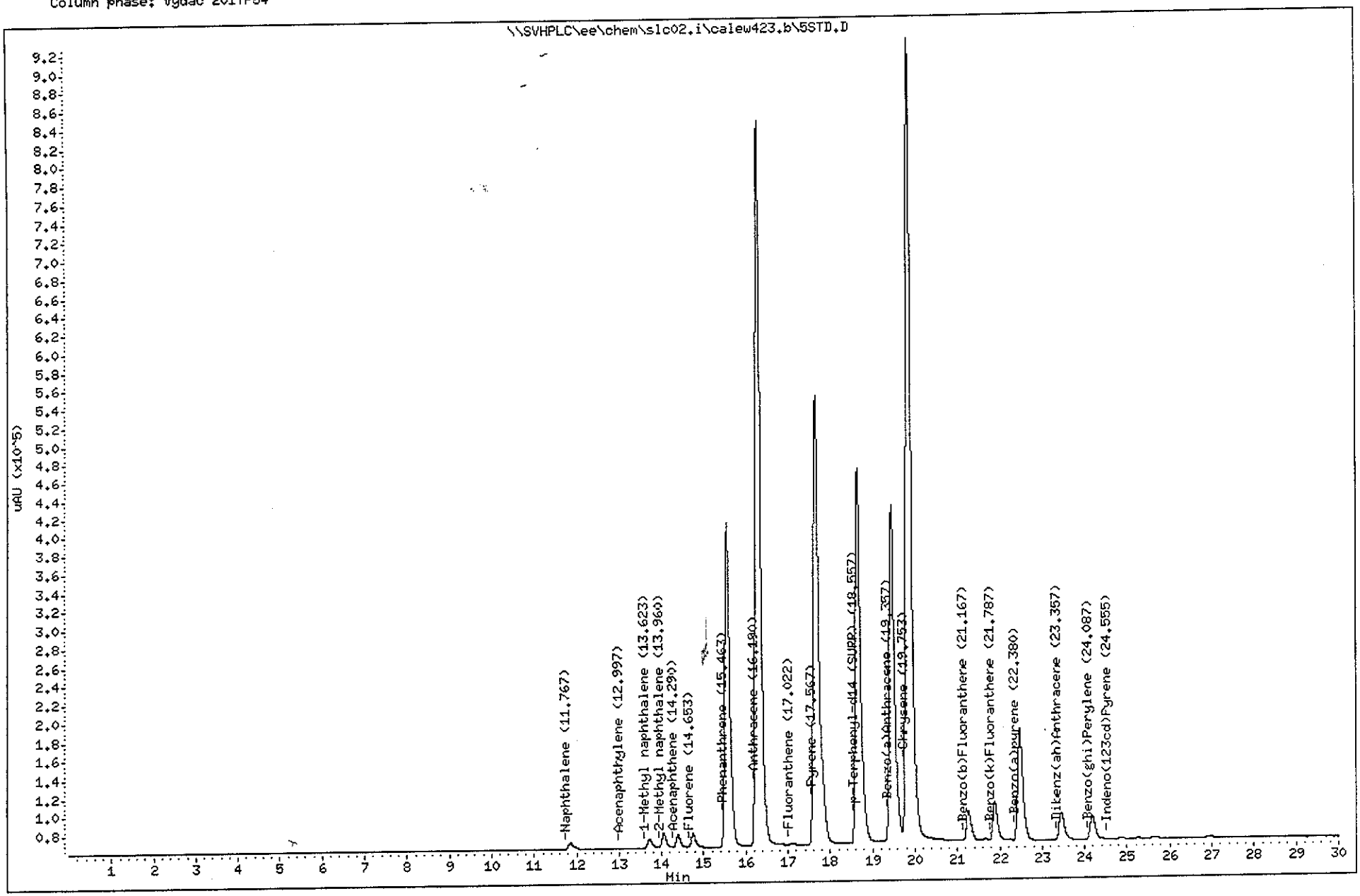
QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\SVHPLC\ee\chem\slc02.i\calew423.b\5STD.D
Date : 22-APR-2002 13:14
Client ID: 5STD
Sample Info: SV4686
Purge Volume: 1000.0
Column phase: Vydac 201TP54

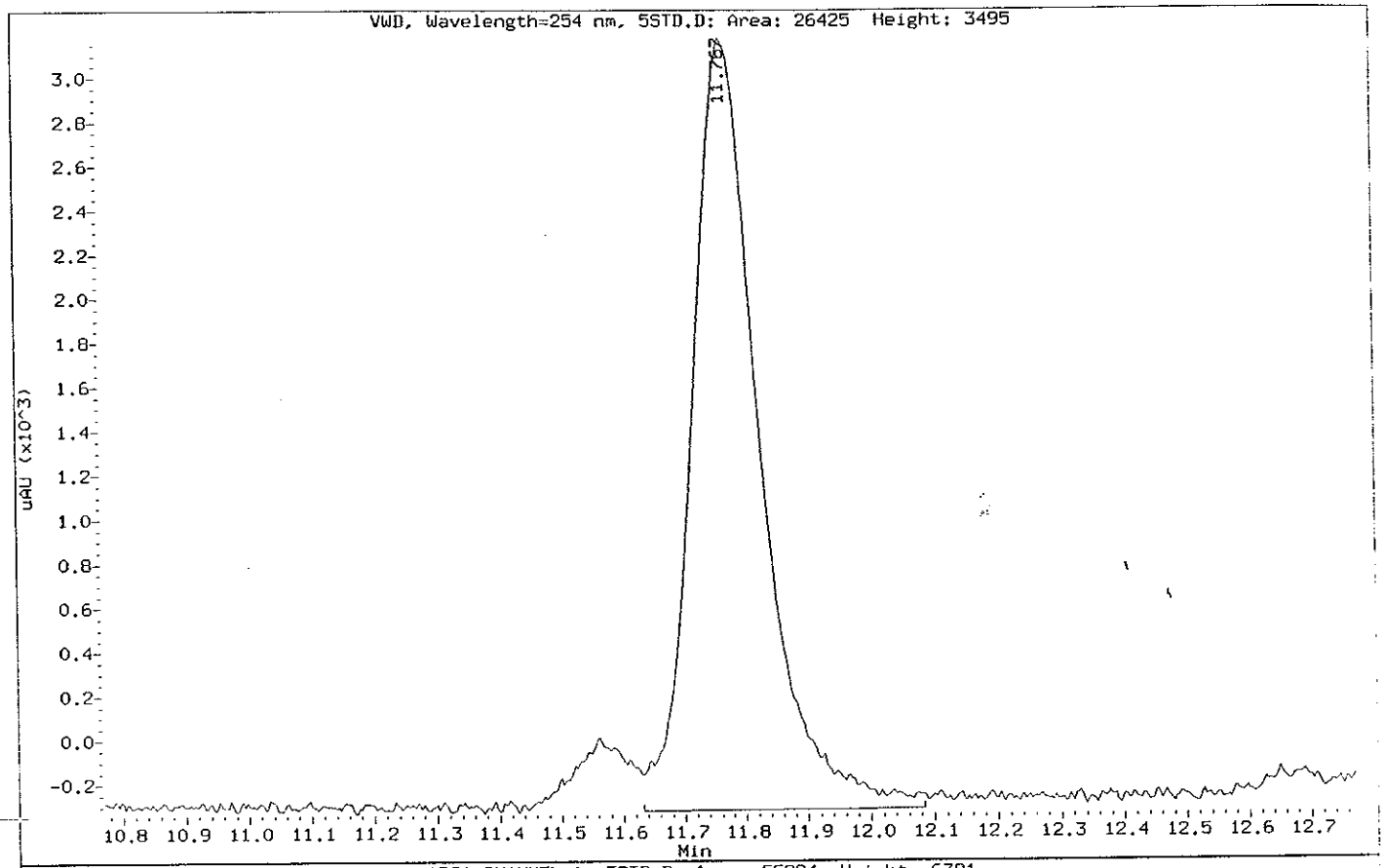
Instrument: slc02.i

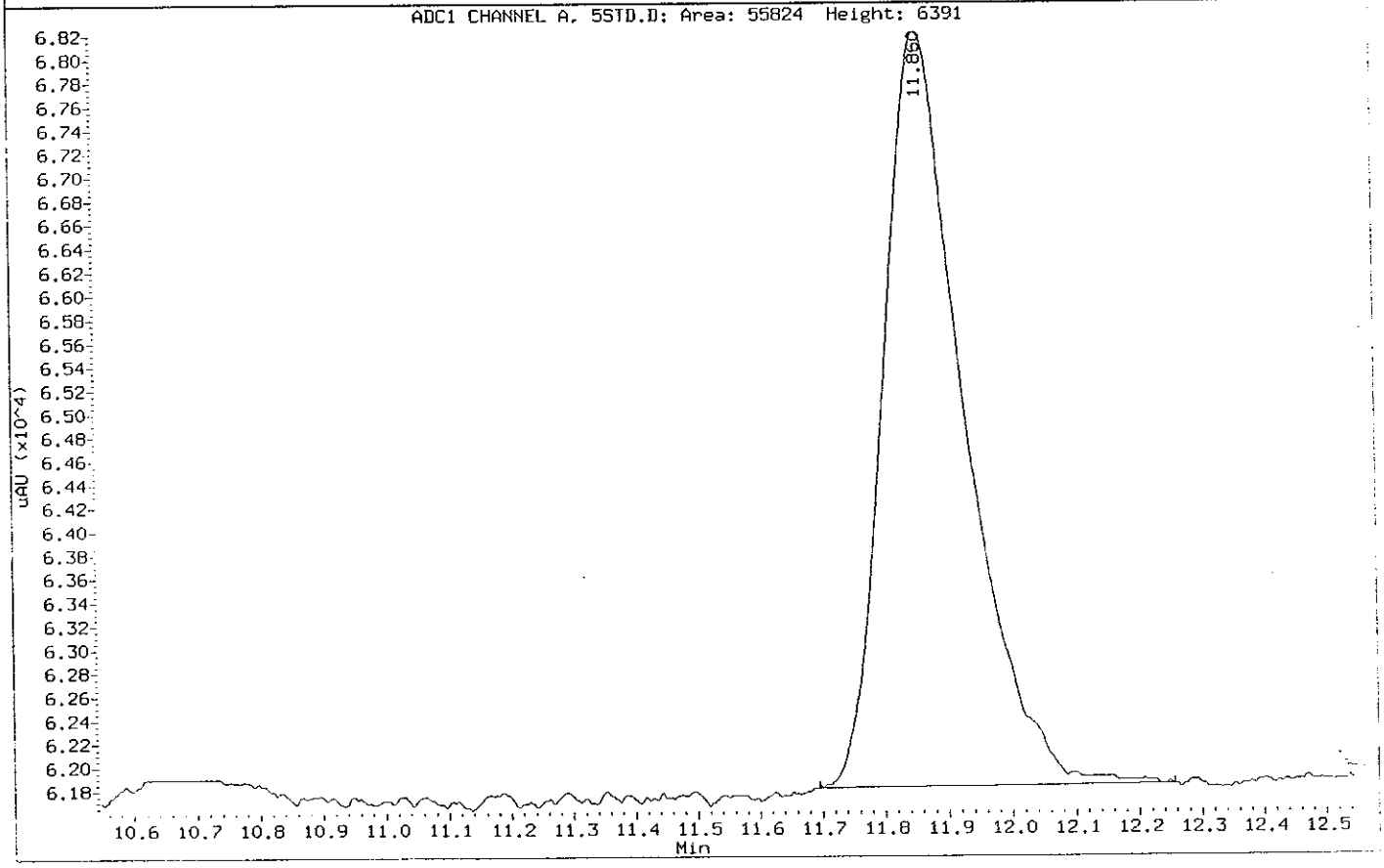
Operator: dent
Column diameter: 4.60



Data File: \\SVHPLC\ee\chem\slc02.i\calew423.b\5STD.D
Injection Date: 22-APR-2002 13:14
Instrument: slc02.i
Client Sample ID: 5STD

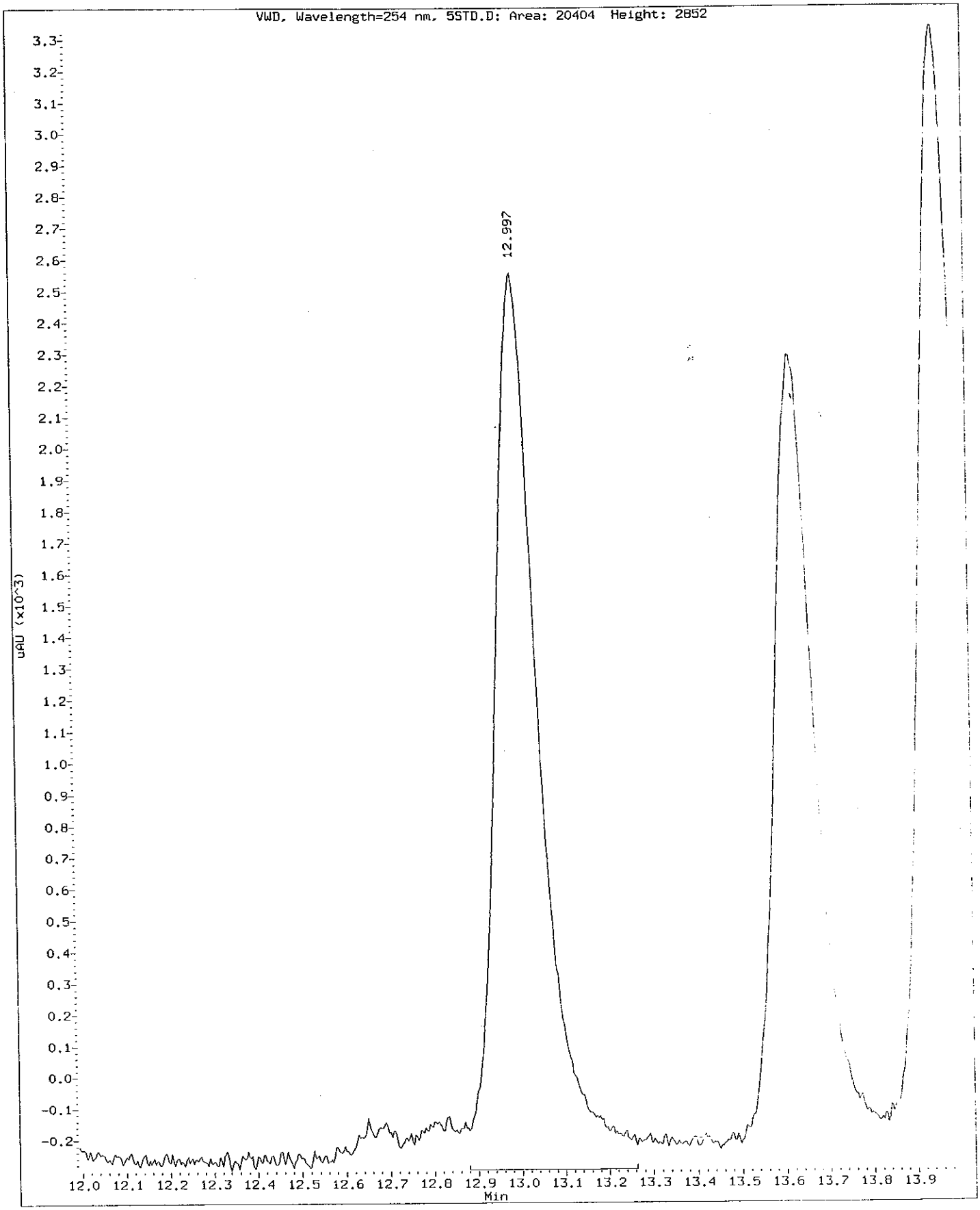
Compound: Naphthalene
CAS Number: 91-20-3





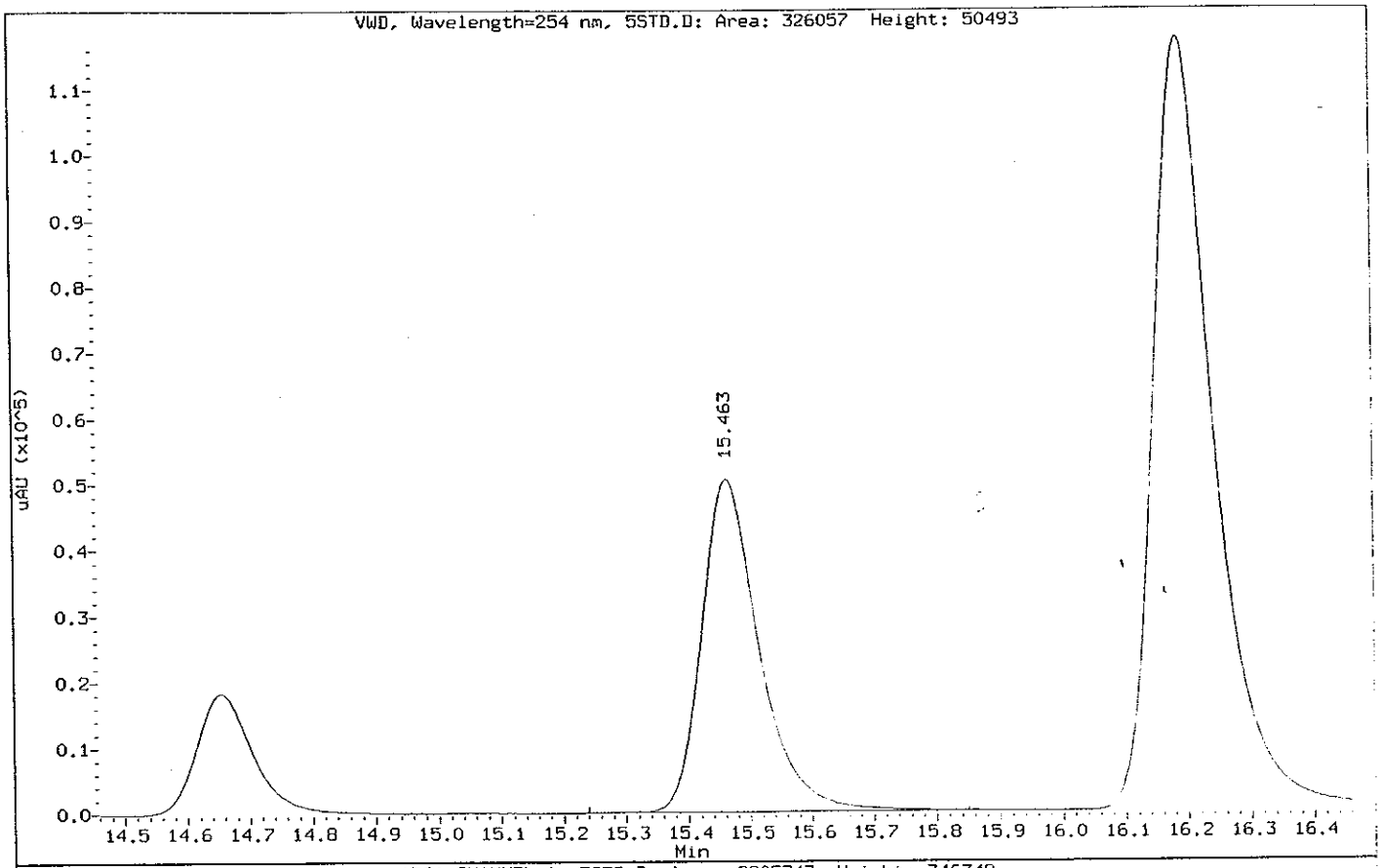
Data File: \\SVHPLC\ee\chem\slc02.i\calew423.b\5STD.D
Injection Date: 22-APR-2002 13:14
Instrument: slc02.i
Client Sample ID: 5STD

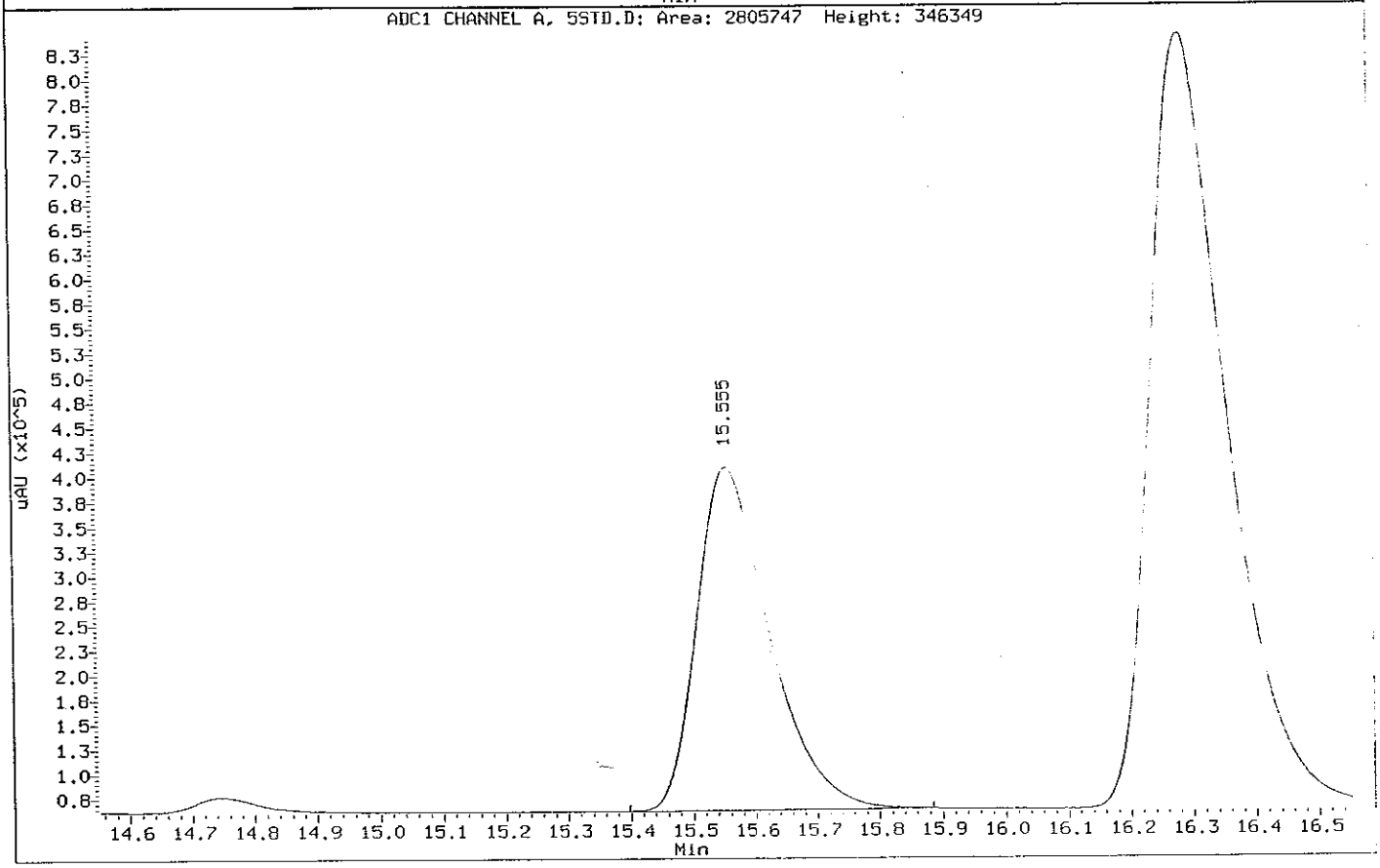
Compound: Acenaphthylene
CAS Number: 208-96-8



Data File: \\SVHPLC\ee\chem\slc02.i\calew423.b\5STD.D
Injection Date: 22-APR-2002 13:14
Instrument: slc02.i
Client Sample ID: 5STD

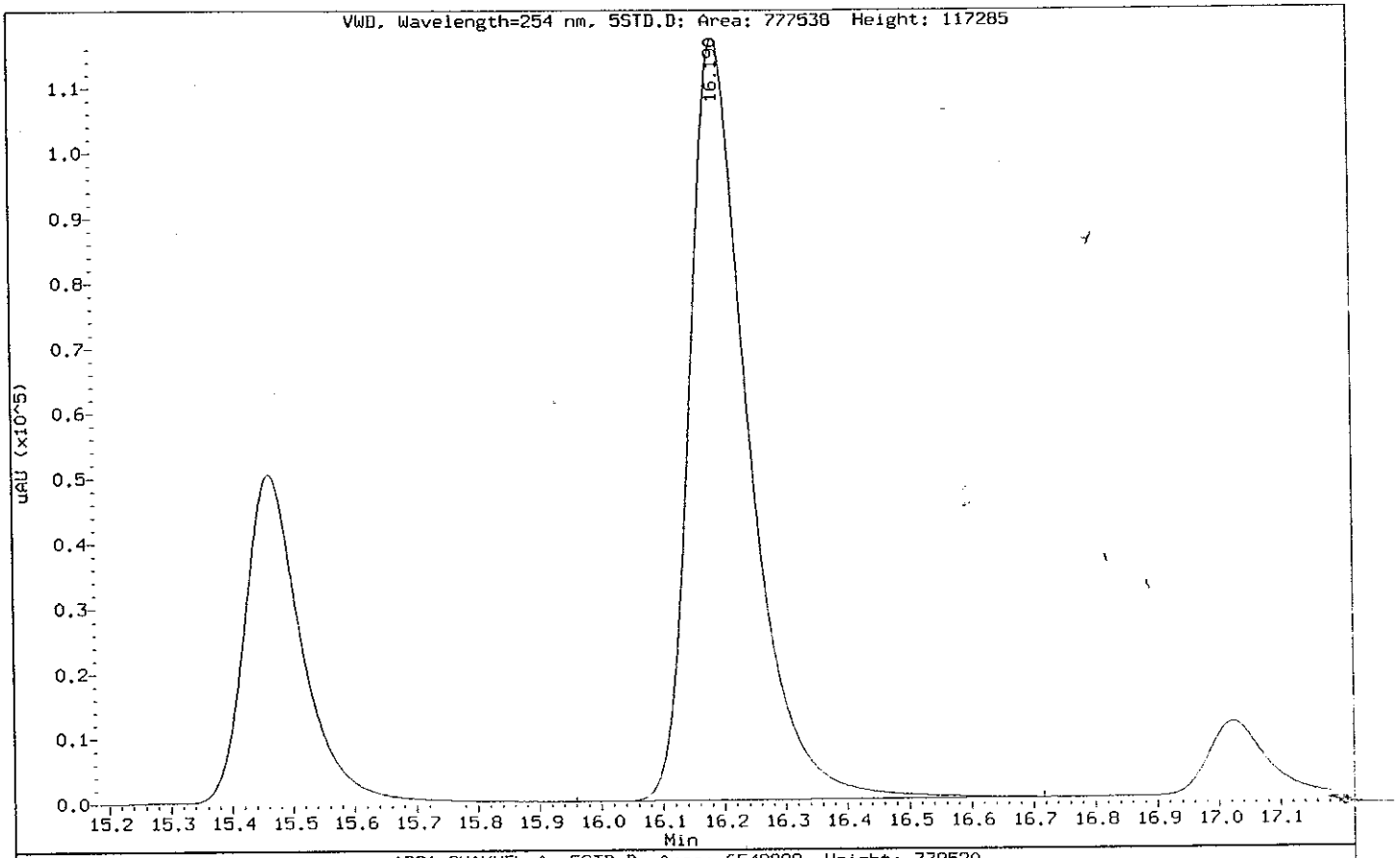
Compound: Phenanthrene
CAS Number: 85-01-8

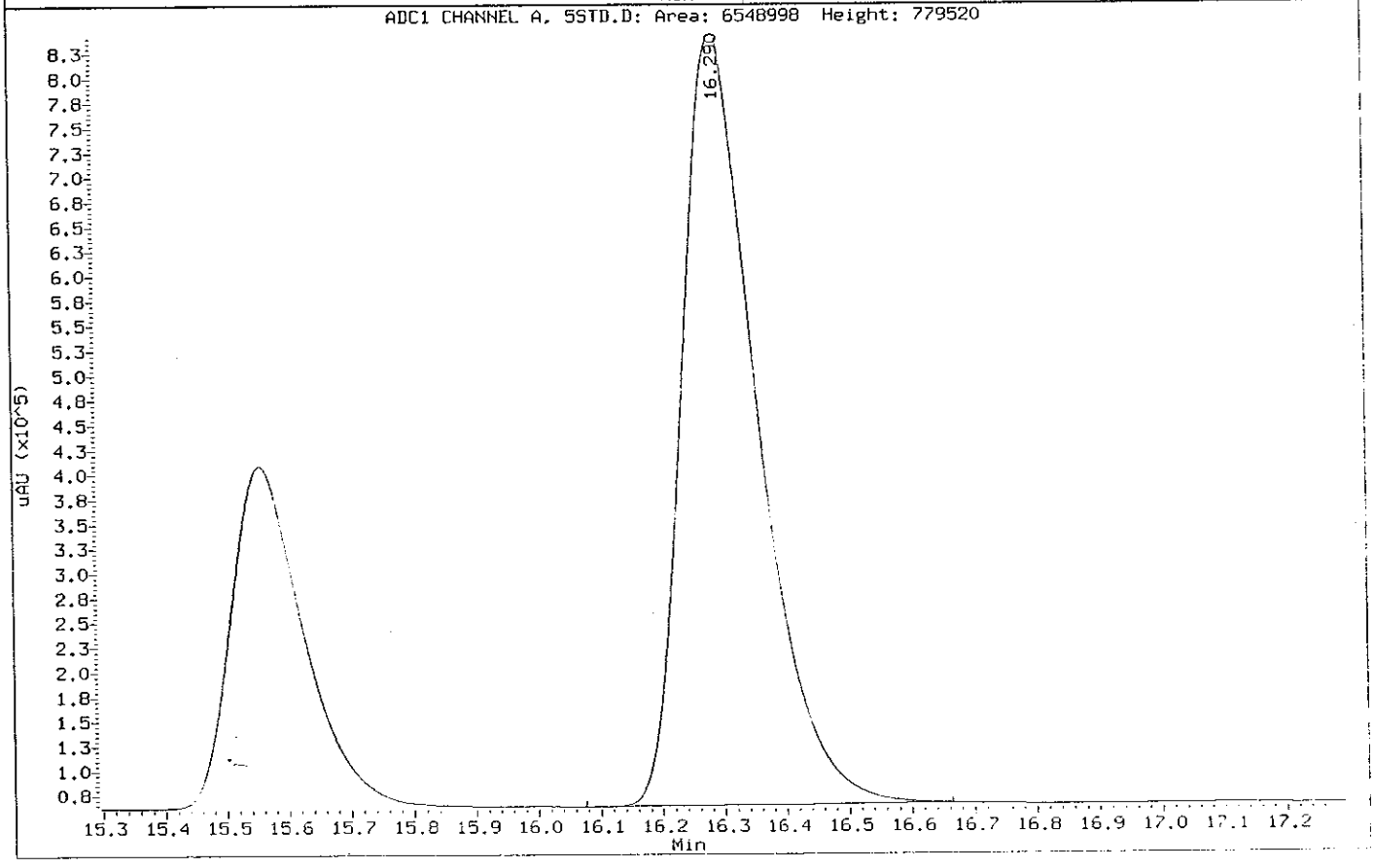




Data File: \\SVHPLC\ee\chem\slc02.i\calew423.b\5STD.D
Injection Date: 22-APR-2002 13:14
Instrument: slc02.i
Client Sample ID: 5STD

Compound: Anthracene
CAS Number: 120-12-7





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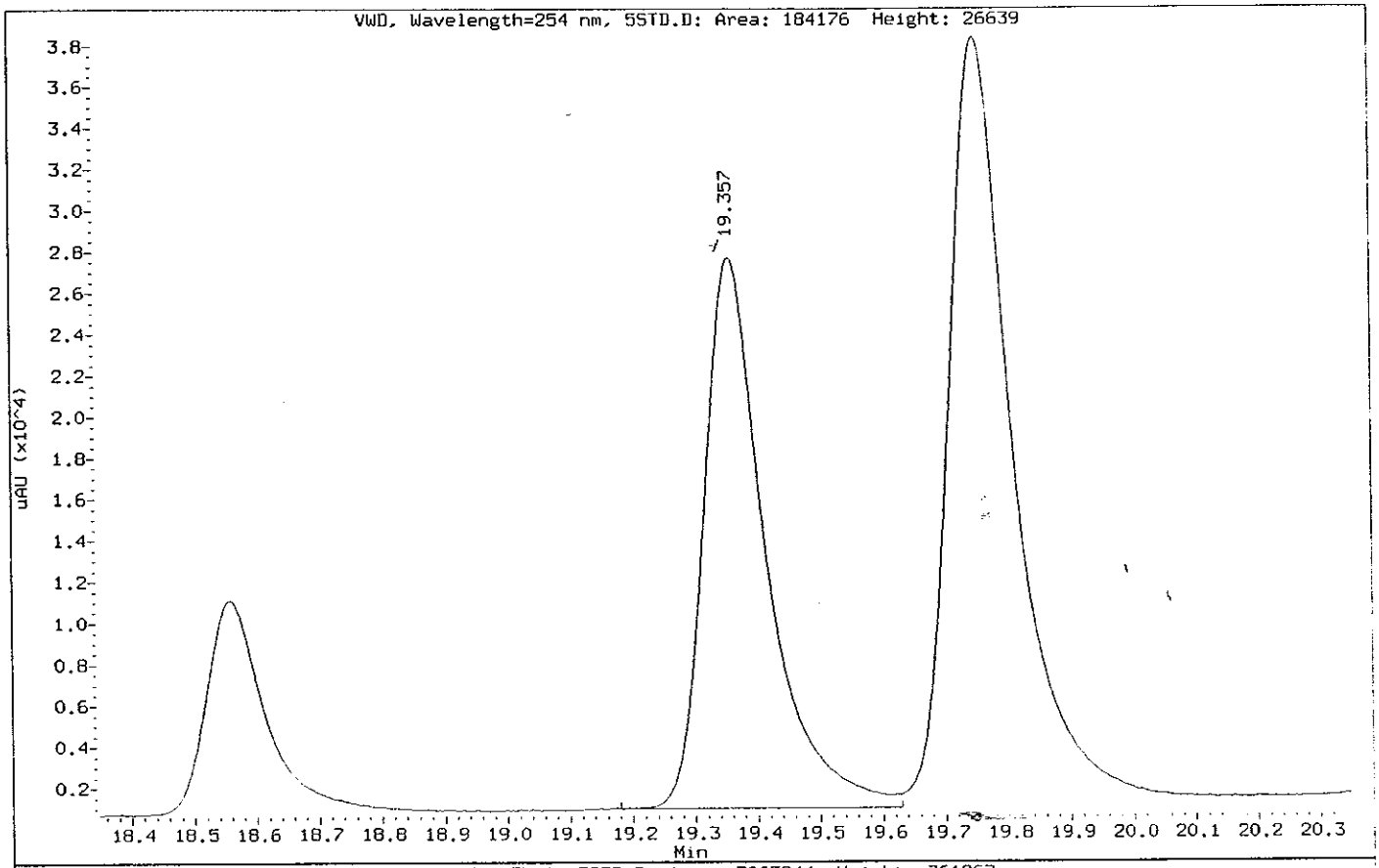
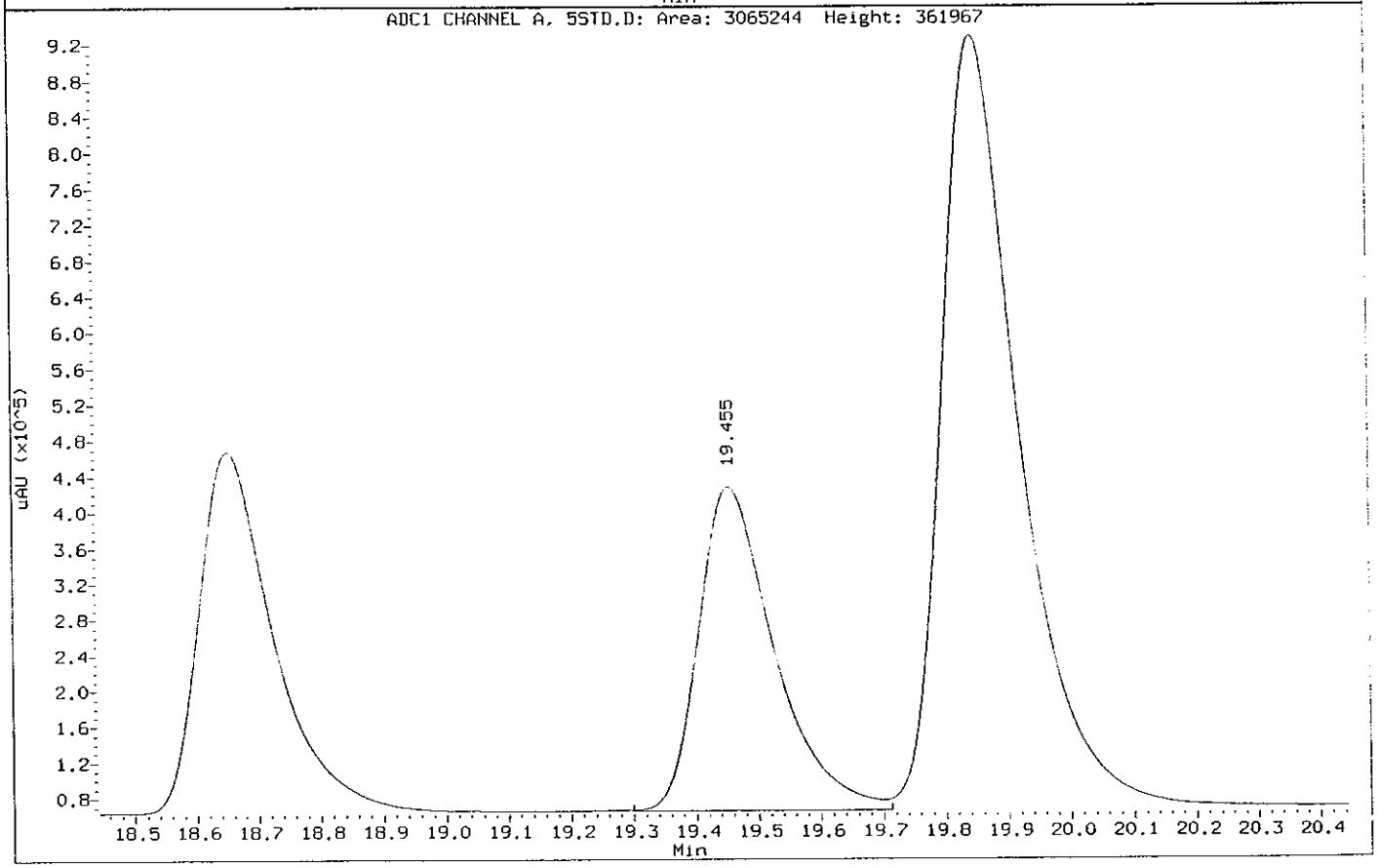
Injection Date: 22-APR-2002 13:14
Instrument: slc02.i
Client Sample ID: 5STD

Compound: Benzo(a)Anthracene
CAS Number: 56-55-3





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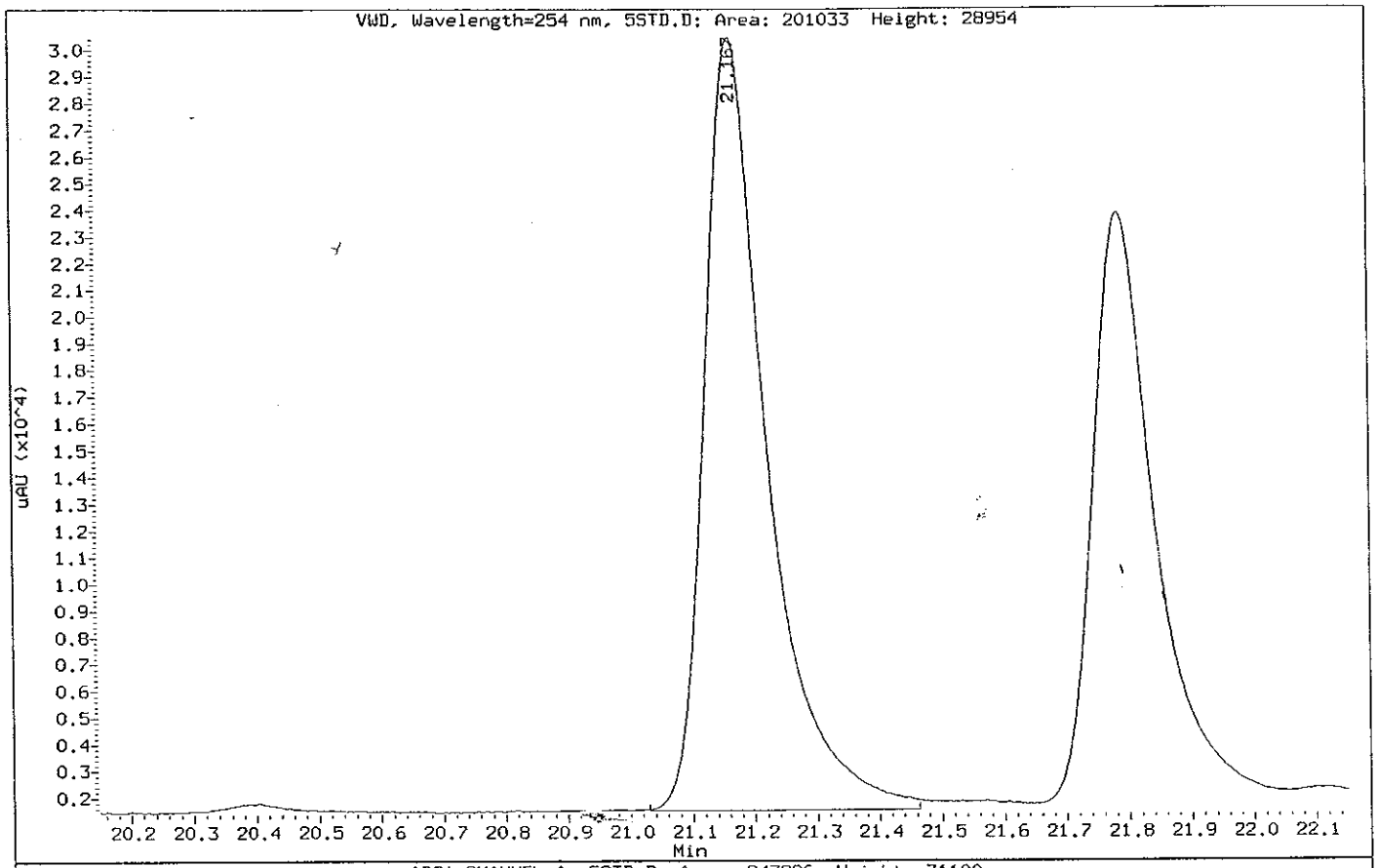
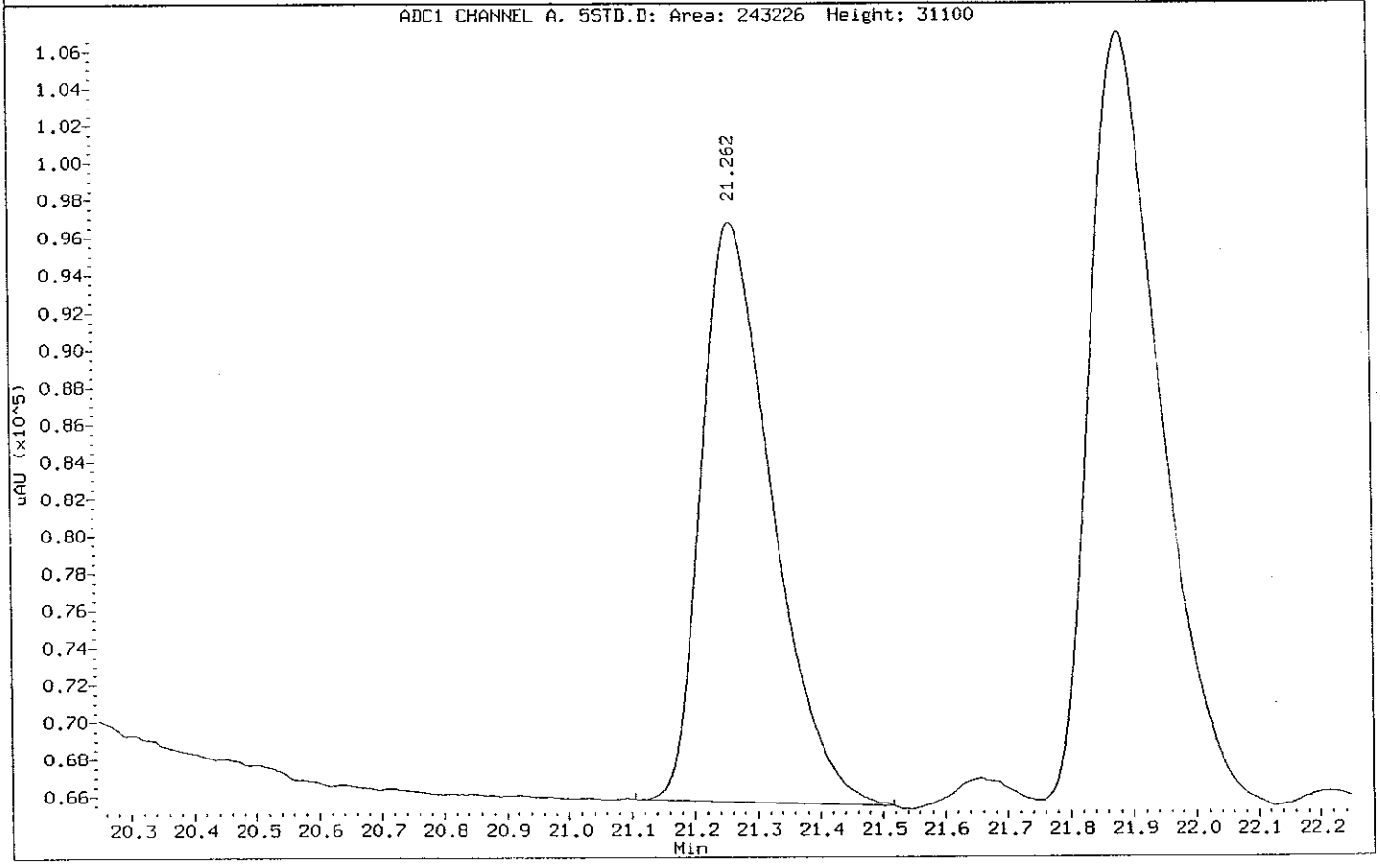
Injection Date: 22-APR-2002 13:14
Instrument: slc02.i
Client Sample ID: 5STD

Compound: Benzo(b)Fluoranthene
CAS Number: 205-99-2





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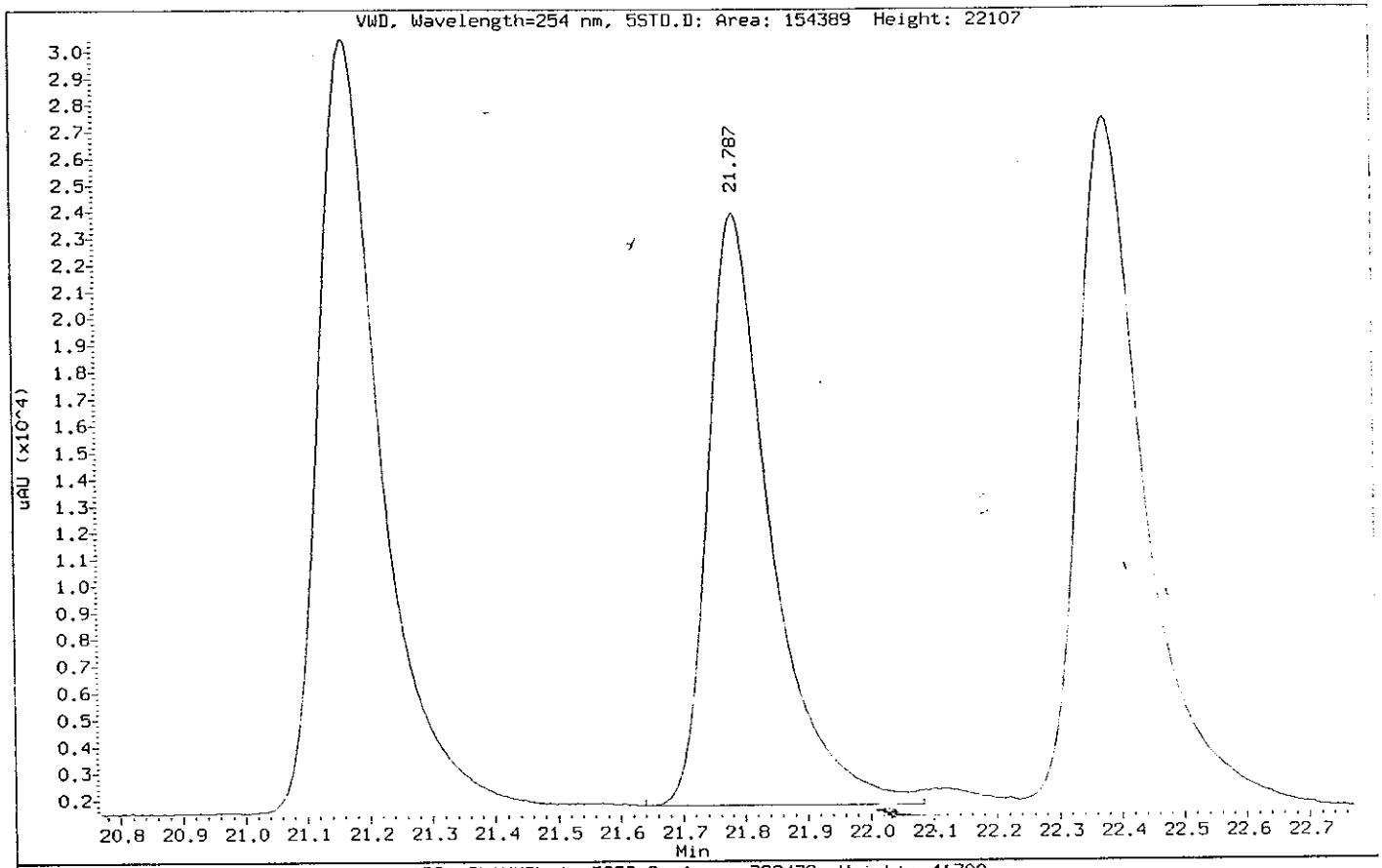
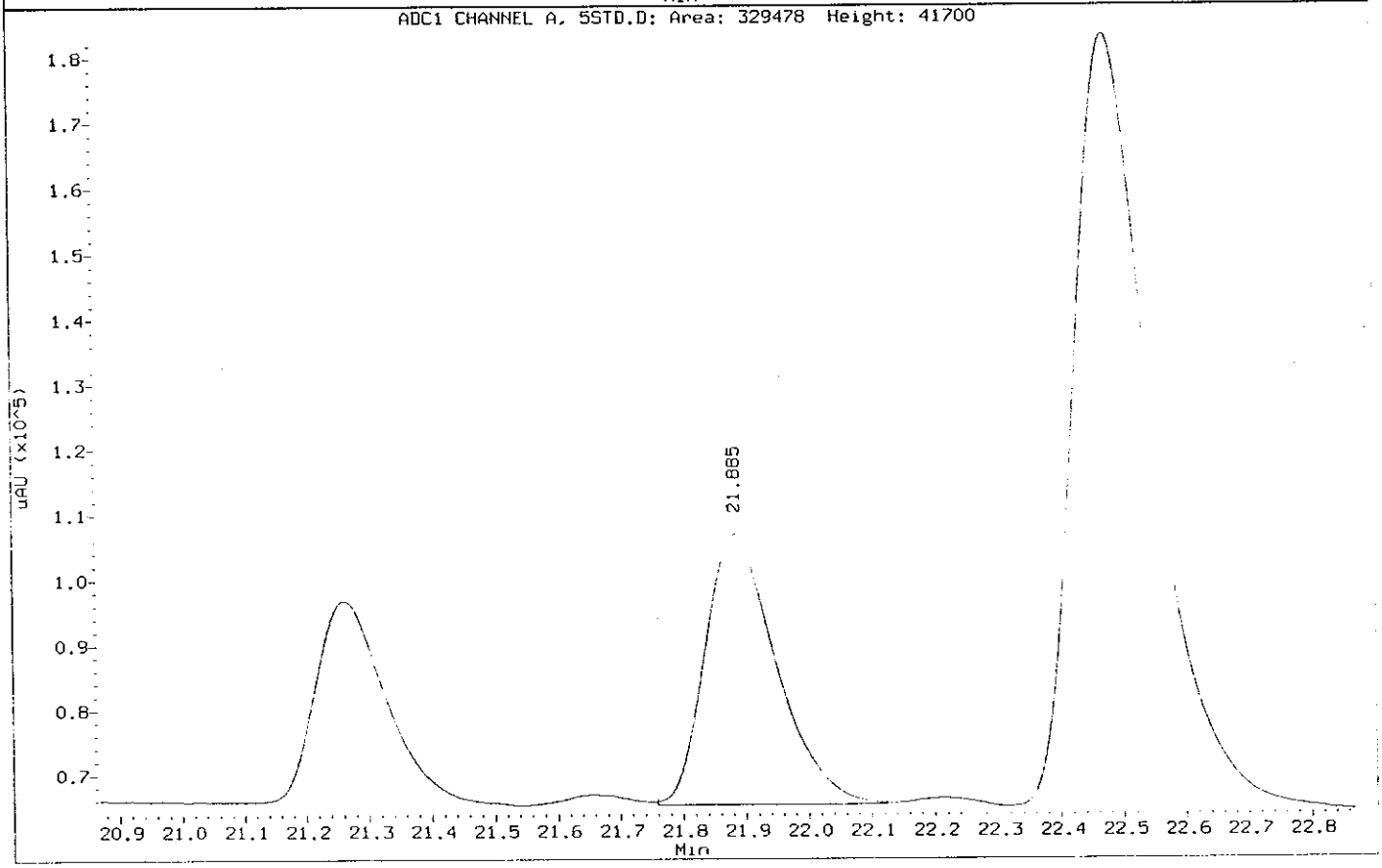
Injection Date: 22-APR-2002 13:14
Instrument: slc02.i
Client Sample ID: 5STD

Compound: Benzo(k)Fluoranthene
CAS Number: 207-08-9





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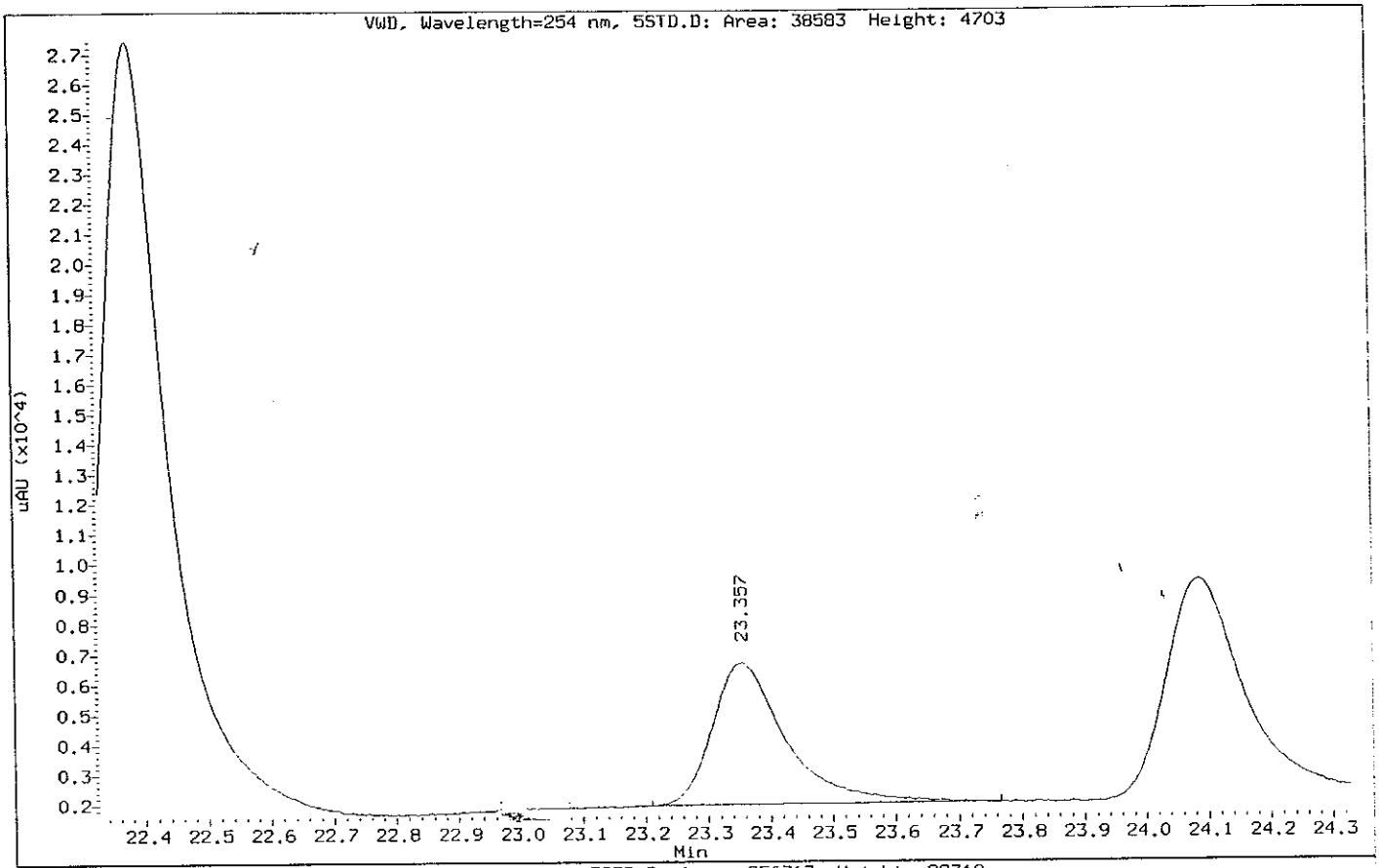
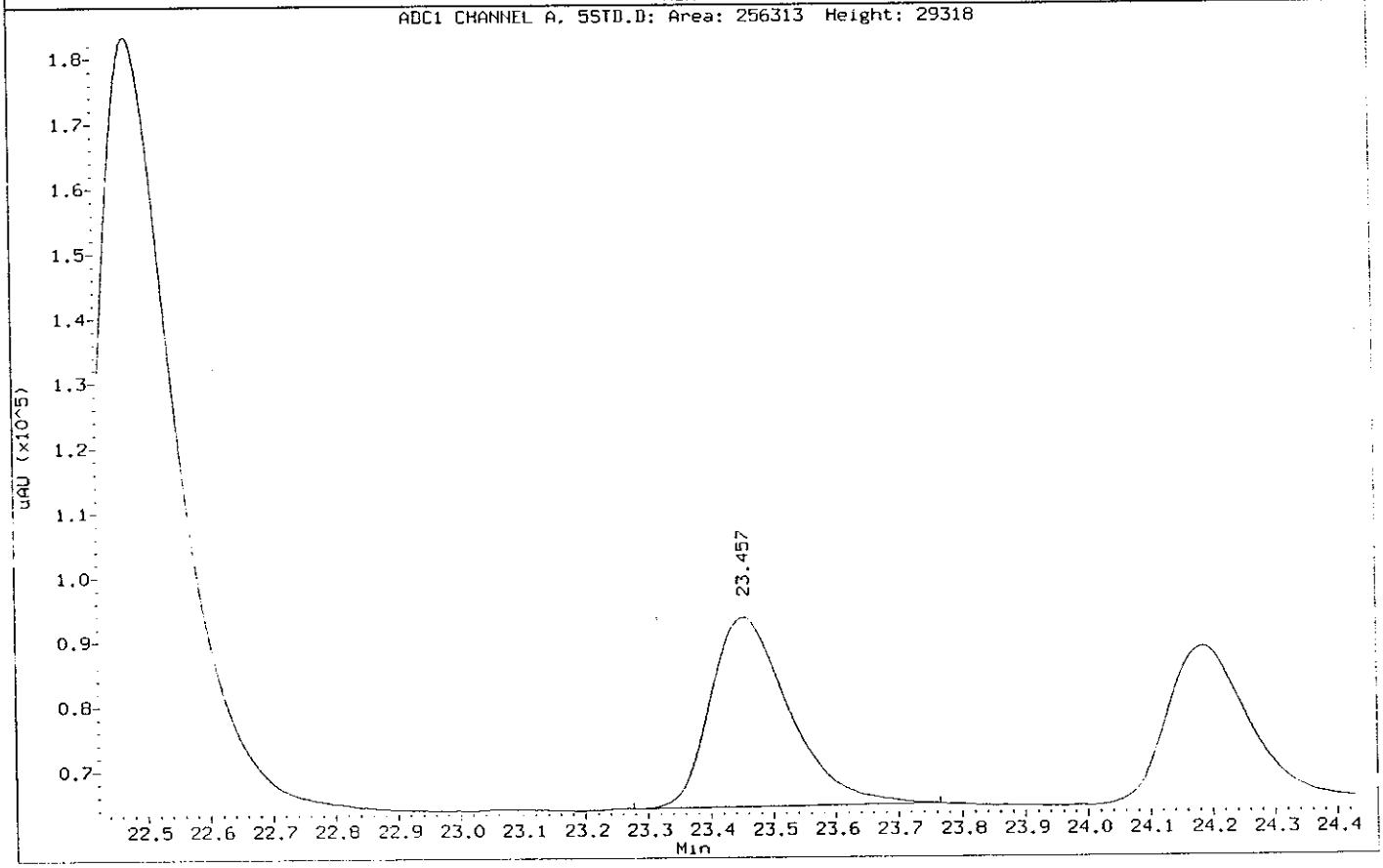
Injection Date: 22-APR-2002 13:14
Instrument: slc02.i
Client Sample ID: 5STD

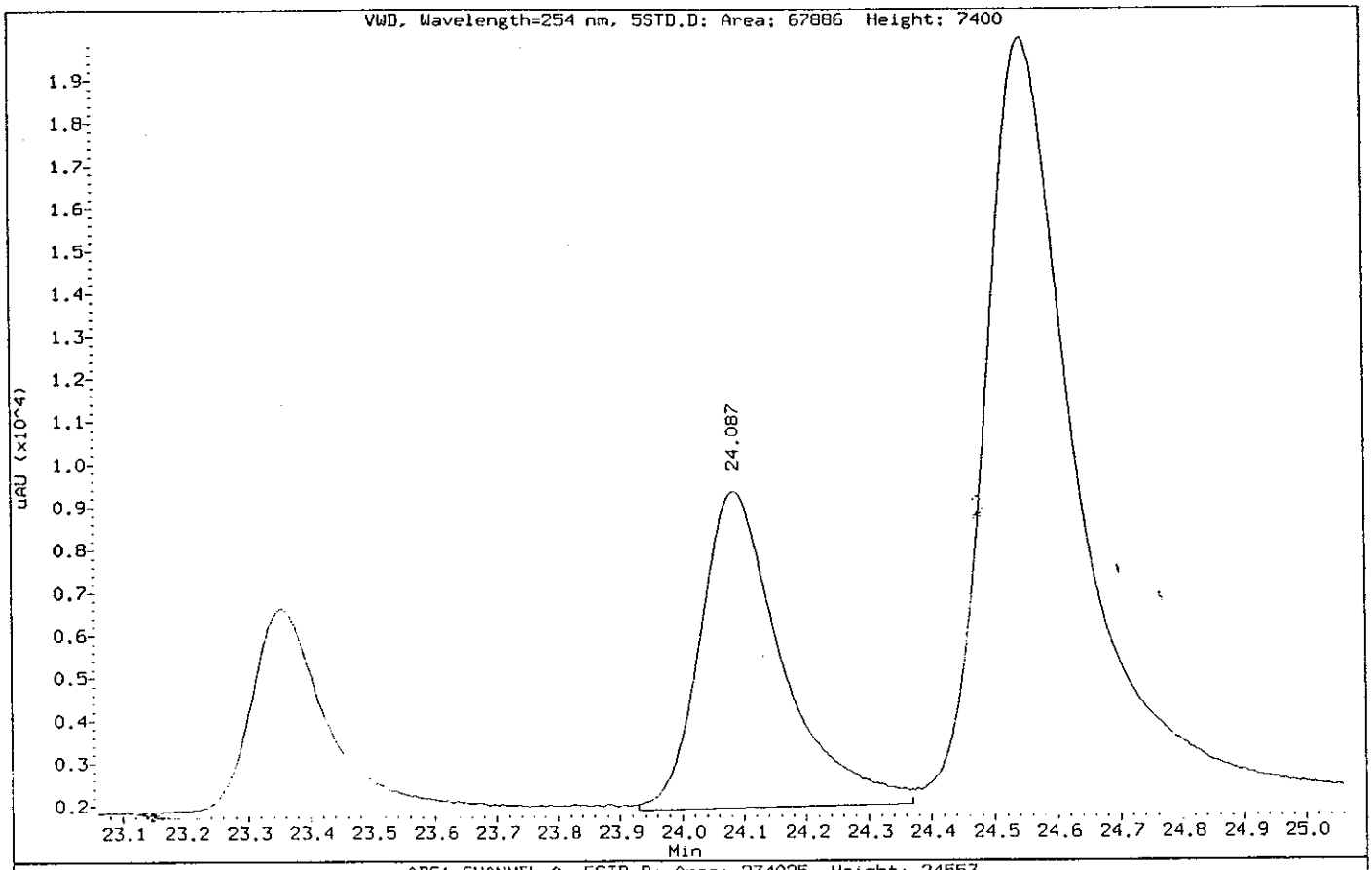
Compound: Dibenz(ah)Anthracene
CAS Number: 53-70-3

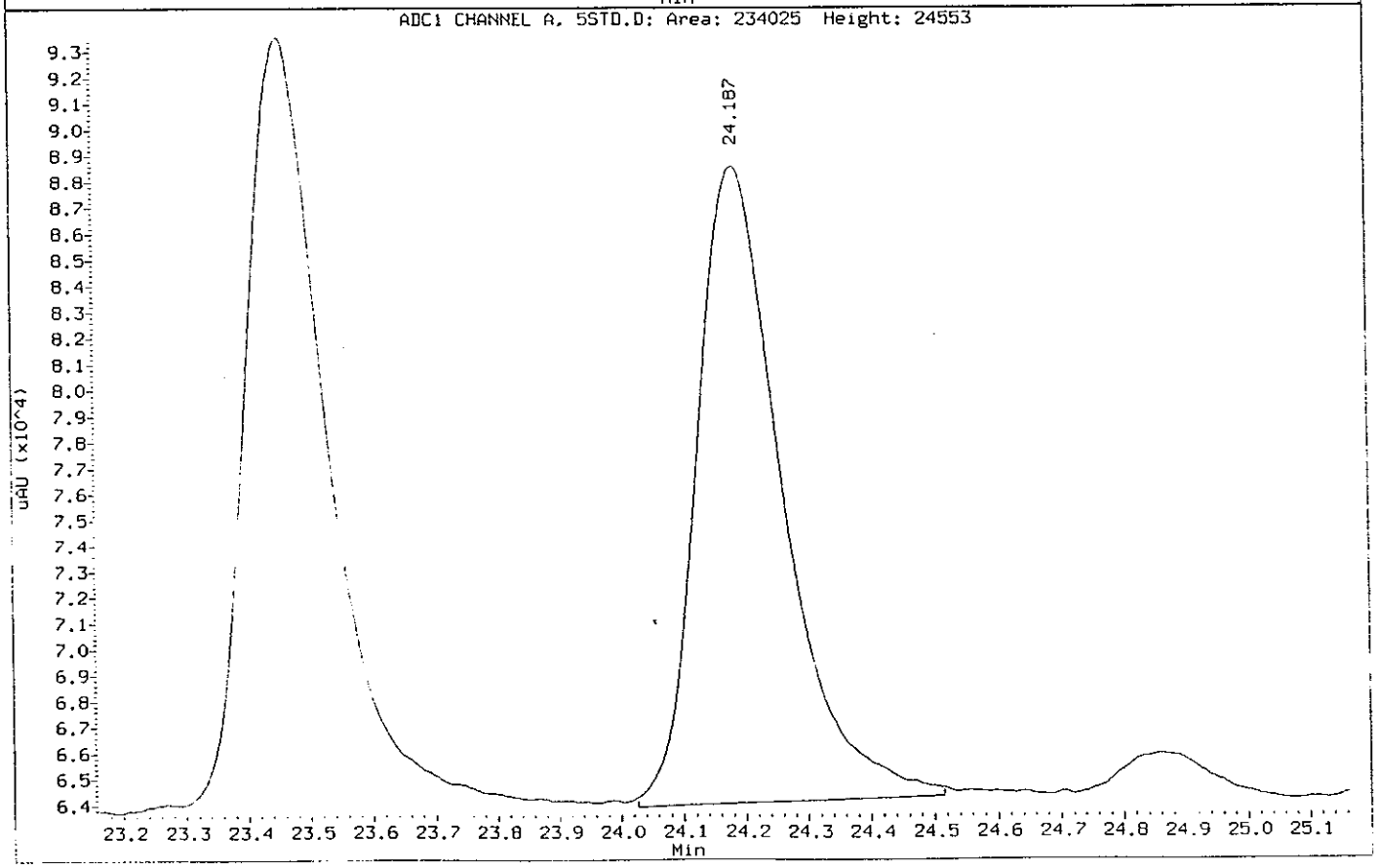




Data File: \\SVHPLC\ee\chem\slc02.i\calew423.b\5STD.D
Injection Date: 22-APR-2002 13:14
Instrument: slc02.i
Client Sample ID: 5STD

Compound: Benzo(ghi)Perylene
CAS Number: 191-24-2





PEL Laboratories, Inc.

Data file : \\SVHPLC\ee\chem\slc02.i\calew423.b\10STD.D
Lab Smp Id: SV4685 Client Smp ID: 10STD
Inj Date : 22-APR-2002 13:48
Operator : dent Inst ID: slc02.i
Smp Info : SV4685
Misc Info :
Comment :
Method : \\Svhplc\ee\chem\slc02.i\calew423.b\8310AE.m
Meth Date : 17-May-2002 13:23 tscott Quant Type: ESTD
Cal Date : 22-APR-2002 15:32 Cal File: 30STD.D
Als bottle: 4 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.04 Sample Matrix: WATER
Processing Host: SVHPLC

Concentration Formula: Amt * DF * 1/(Vo/1000)*Vt

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume Extracted
Vt	1.000	

					AMOUNTS CAL-AMT	AMOUNTS ON-COL		
RT	EXP RT	DLT RT	SIGNAL	RESPONSE	(ug/ml)	(ug/ml)	TARGET RANGE	RATIO
2 Naphthalene						CAS #: 91-20-3		
11.776	11.776	(0.000)	VWD1A	52317	10.0000	10.0	80.00- 120.00	100.00 (M)
11.864	11.864	(0.000)	ADC1A	130151			199.02- 298.53	248.77
3 Acenaphthylene						CAS #: 208-96-8		
13.003	13.003	(0.000)	VWD1A	40955	10.0000	10.4		(H)
4 1-Methyl naphthalene						CAS #: 90-12-0		
13.630	13.630	(0.000)	VWD1A	32076			80.00- 120.00	100.00
13.719	13.719	(0.000)	ADC1A	161928	10.0000	9.1	403.86- 605.79	504.83
5 2-Methyl naphthalene						CAS #: 91-57-6		
13.966	13.966	(0.000)	VWD1A	44370	10.0000	10.1	80.00- 120.00	100.00
14.054	14.054	(0.000)	ADC1A	241527			435.48- 653.22	544.35

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	
14.300	14.300	(0.000)	VWD1A	19643			80.00- 120.00	100.00
14.392	14.392	(0.000)	ADC1A	213925	10.0000	9.2	871.25-1306.88	1089.06
7 Fluorene							CAS #: 86-73-7	
14.656	14.656	(0.000)	VWD1A	238563	10.0000	10.1		
8 Phenanthrene							CAS #: 85-01-8	
15.463	15.463	(0.000)	VWD1A	652801			80.00- 120.00	100.00(M)
15.556	15.556	(0.000)	ADC1A	5726563	10.0000	10.2	701.78-1052.68	877.23
9 Anthracene							CAS #: 120-12-7	
16.193	16.193	(0.000)	VWD1A	1537587	10.0000	10.8	80.00- 120.00	100.00
16.289	16.289	(0.000)	ADC1A	13137052			683.52-1025.27	854.39
10 Fluoranthene							CAS #: 206-44-0	
17.023	17.023	(0.000)	VWD1A	157168	10.0000	10.0		
11 Pyrene							CAS #: 129-00-0	
17.570	17.570	(0.000)	VWD1A	139634	10.0000	10.0	80.00- 120.00	100.00
17.662	17.662	(0.000)	ADC1A	8974287			5141.61-7712.41	6427.01
$ 12 p-Terphenyl-d14 (SURR)							CAS #: 1718-51-0	
18.563	18.563	(0.000)	VWD1A	141036	10.0000	10.1	80.00- 120.00	100.00
18.657	18.657	(0.000)	ADC1A	6799864			3857.09-5785.64	4821.37
13 Benzo(a)Anthracene							CAS #: 56-55-3	
19.363	19.363	(0.000)	VWD1A	373843	10.0000	10.1	80.00- 120.00	100.00(M)
19.459	19.459	(0.000)	ADC1A	6199812			1326.72-1990.08	1658.40
14 Chrysene							CAS #: 218-01-9	
19.756	19.756	(0.000)	VWD1A	528557	10.0000	10.2	80.00- 120.00	100.00
19.852	19.852	(0.000)	ADC1A	14686932			2222.95-3334.42	2778.68
15 Benzo(b)Fluoranthene							CAS #: 205-99-2	
21.173	21.173	(0.000)	VWD1A	409119	10.0000	10.0	80.00- 120.00	100.00(M)
21.269	21.269	(0.000)	ADC1A	548094			107.18- 160.76	133.97
16 Benzo(k)Fluoranthene							CAS #: 207-08-9	
21.793	21.793	(0.000)	VWD1A	313143	10.0000	10.2	80.00- 120.00	100.00(M)
21.887	21.887	(0.000)	ADC1A	711190			181.69- 272.54	227.11
17 Benzo(a)pyrene							CAS #: 50-32-8	
22.386	22.386	(0.000)	VWD1A	381198			80.00- 120.00	100.00
22.482	22.482	(0.000)	ADC1A	2155450	10.0000	10.0	452.35- 678.53	565.44

					AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
RT	EXP RT	DLT RT	SIGNAL	RESPONSE				
18 Dibenz(ah)Anthracene						CAS #: 53-70-3		
23.356	23.356	(0.000)	VWD1A	79993	10.0000	9.7	80.00- 120.00	100.00(M)
23.456	23.456	(0.000)	ADC1A	596509			596.56- 894.84	745.70
19 Benzo(ghi)Perylene						CAS #: 191-24-2		
24.086	24.086	(0.000)	VWD1A	150723	10.0000	10.6	80.00- 120.00	100.00(M)
24.186	24.186	(0.000)	ADC1A	528788			280.67- 421.00	350.83
20 Indeno(123cd)Pyrene						CAS #: 193-39-5		
24.550	24.550	(0.000)	VWD1A	358884	10.0000	9.7		

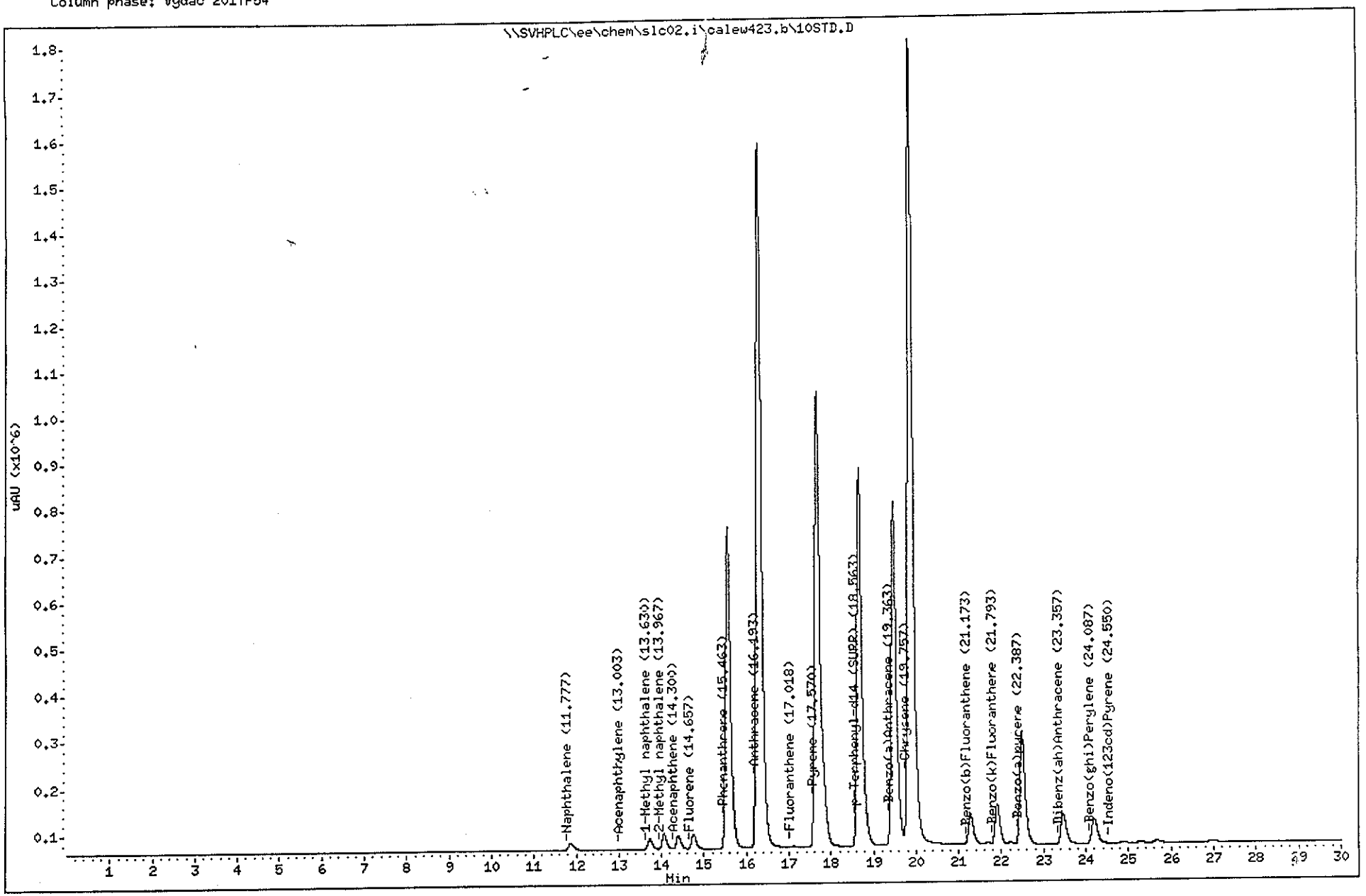
QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\SVHPLC\ee\chem\slc02.i\calew423.b\10STD.D
Date : 22-APR-2002 13:48
Client ID: 10STD
Sample Info: SV4685
Purge Volume: 1000.0
Column phase: Vydac 201TP54

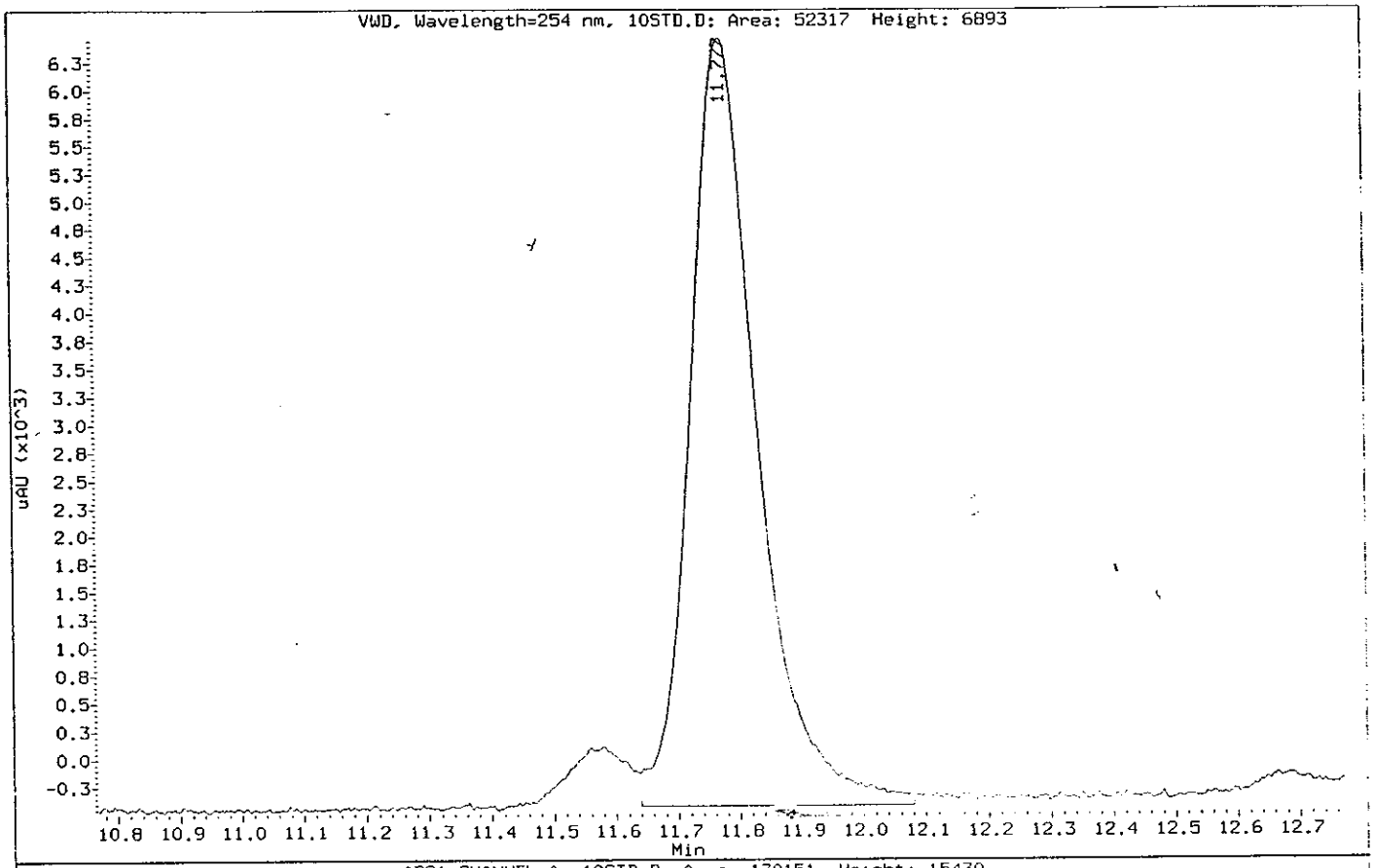
Instrument: slc02.i

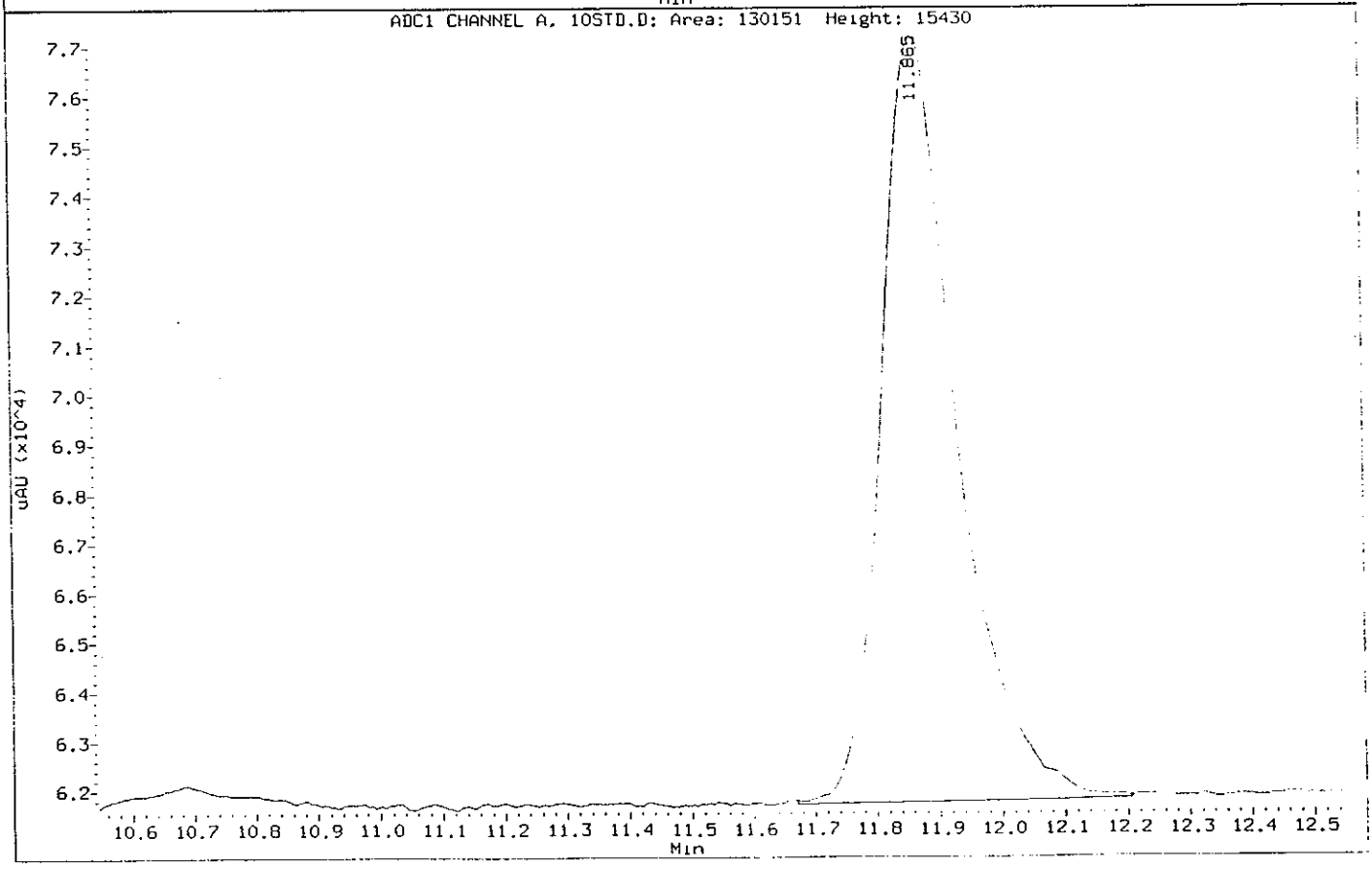
Operator: dent
Column diameter: 4.60



Data File: \\SVHPLC\ee\chem\slc02.i\calew423.b\10STD.D
Injection Date: 22-APR-2002 13:48
Instrument: slc02.i
Client Sample ID: 10STD

Compound: Naphthalene
CAS Number: 91-20-3





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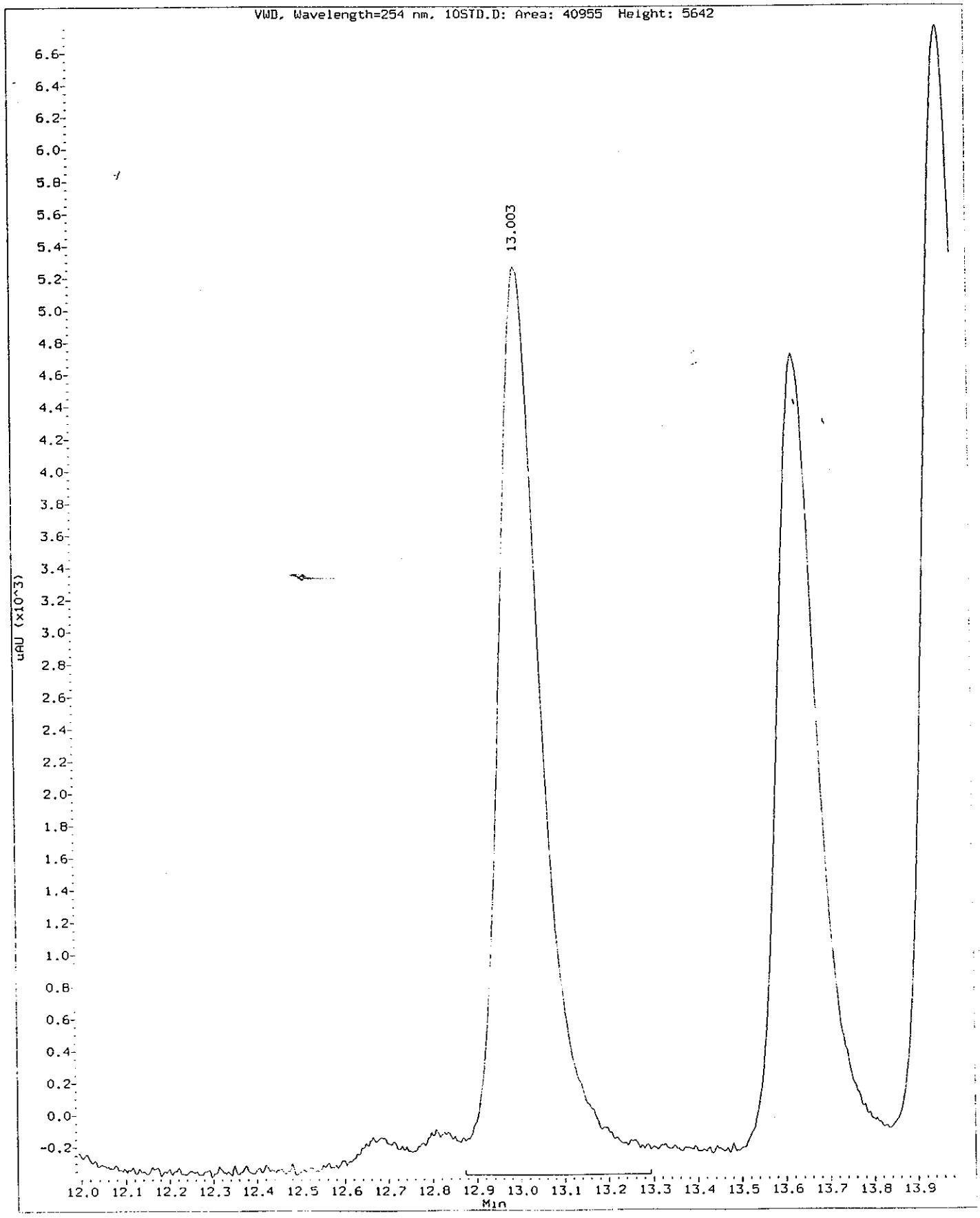
Injection Date: 22-APR-2002 13:48
Instrument: slc02.i
Client Sample ID: 10STD

Compound: Acenaphthylene
CAS Number: 208-96-8



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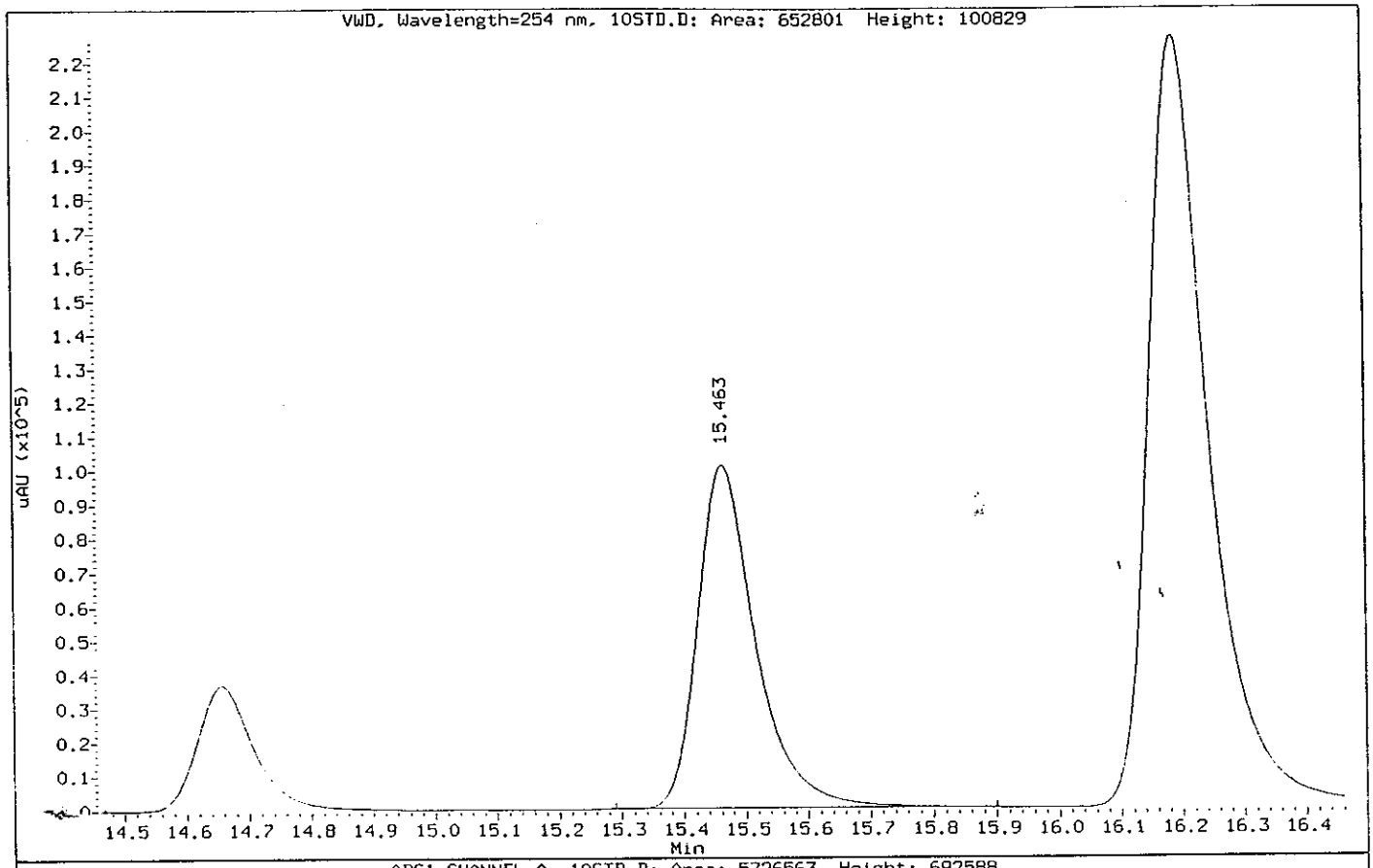
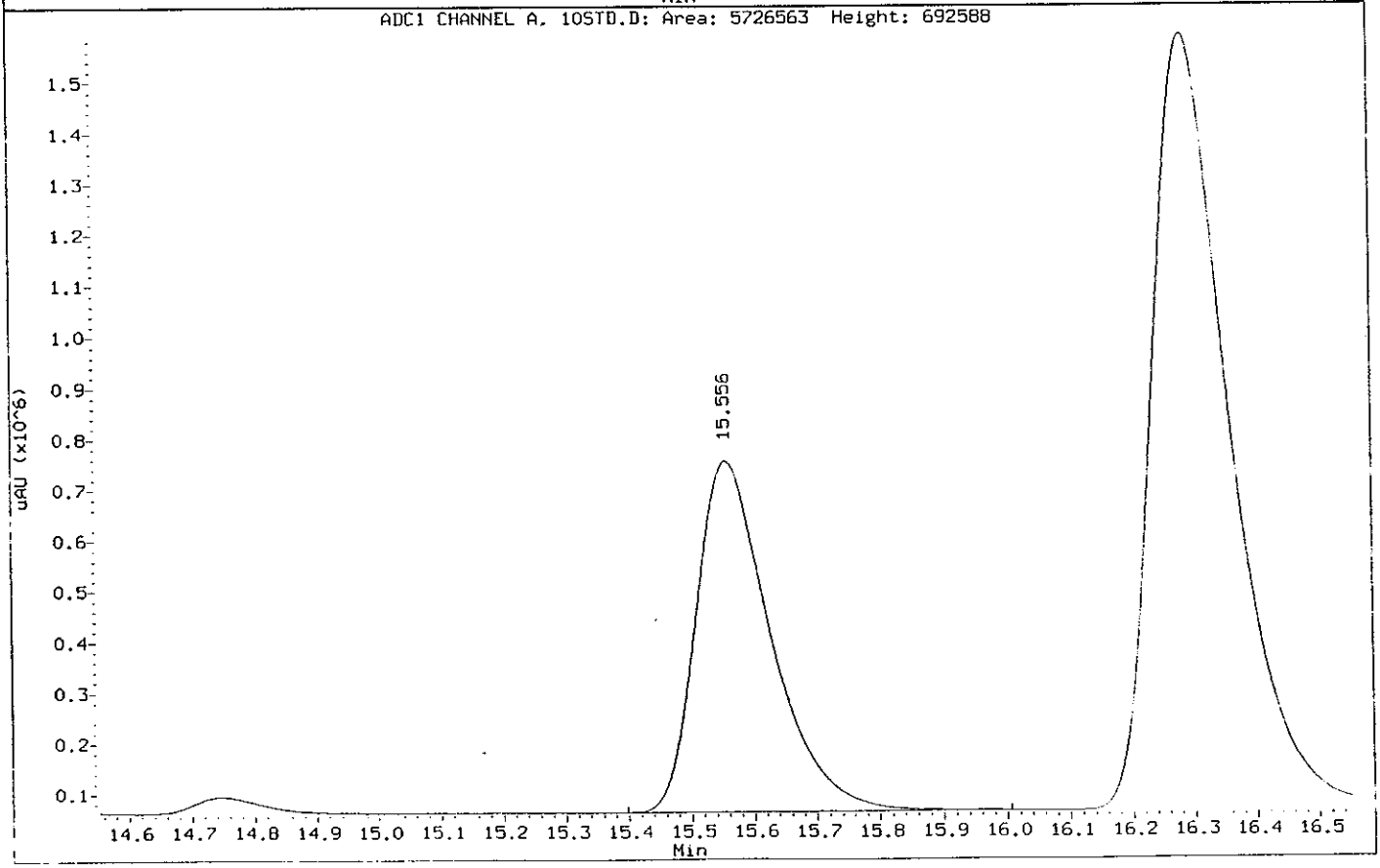
Injection Date: 22-APR-2002 13:48
Instrument: slc02.i
Client Sample ID: 10STD

Compound: Phenanthrene
CAS Number: 85-01-8





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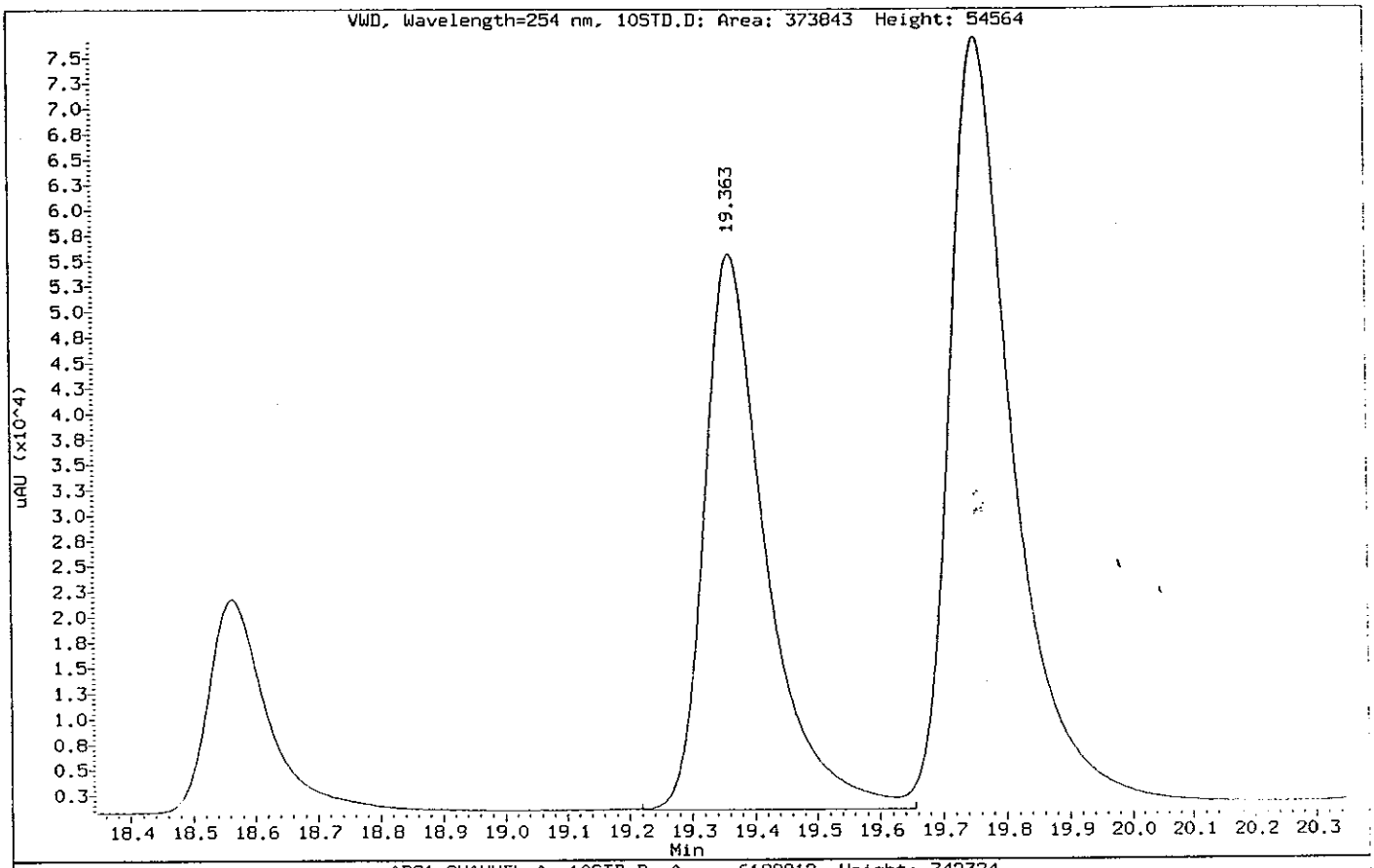
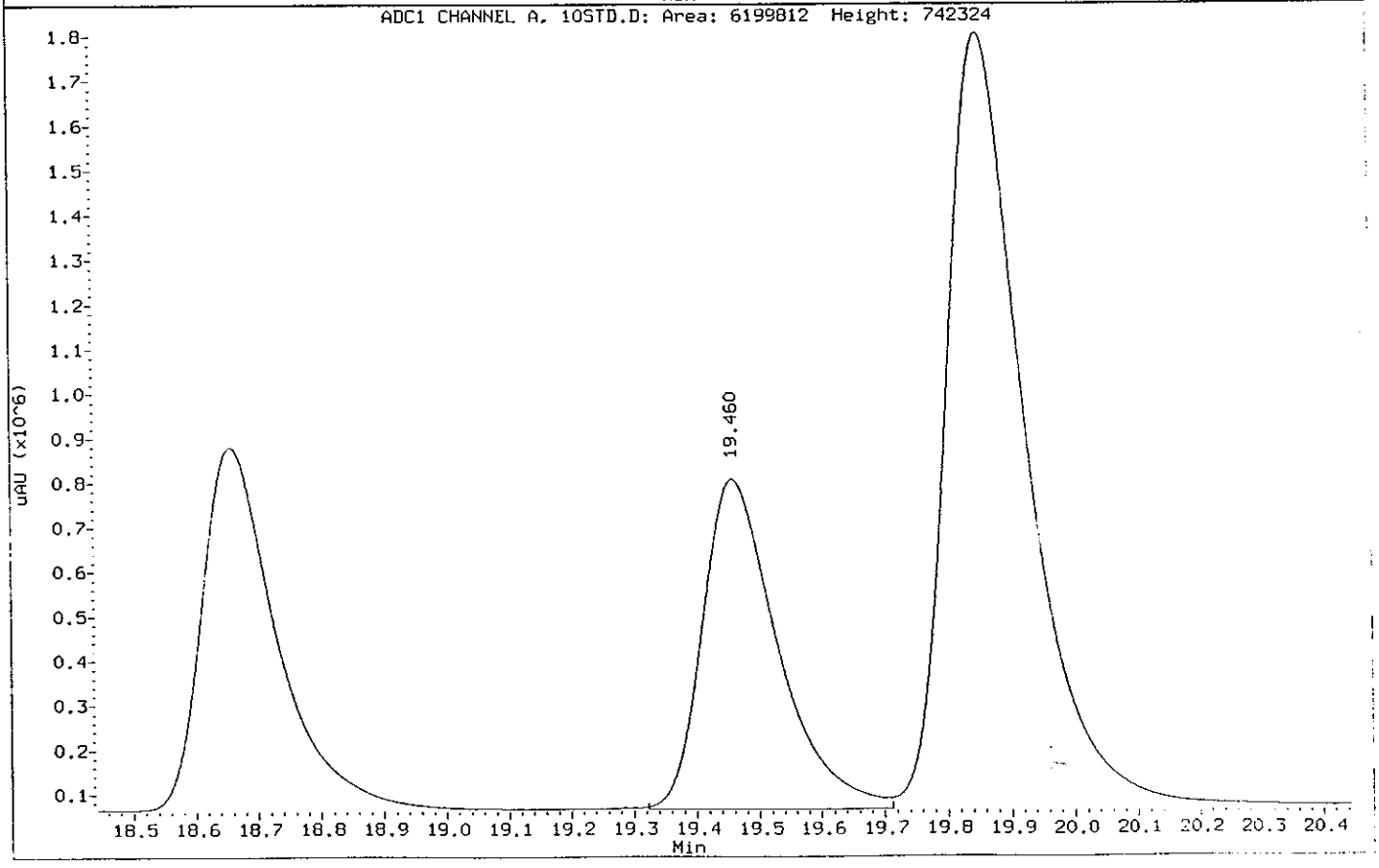
Injection Date: 22-APR-2002 13:48
Instrument: slc02.i
Client Sample ID: 10STD

Compound: Benzo(a)Anthracene
CAS Number: 56-55-3





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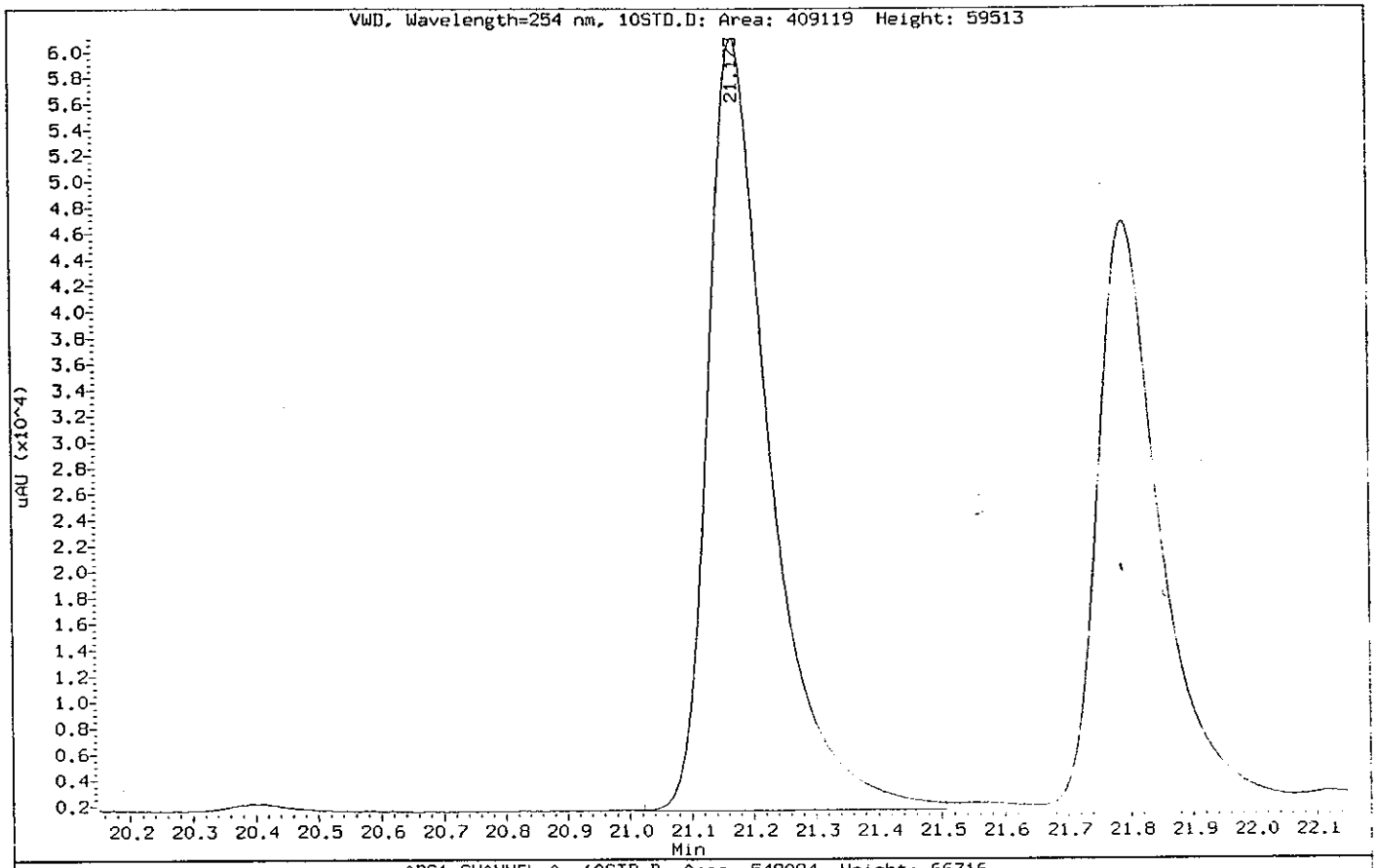
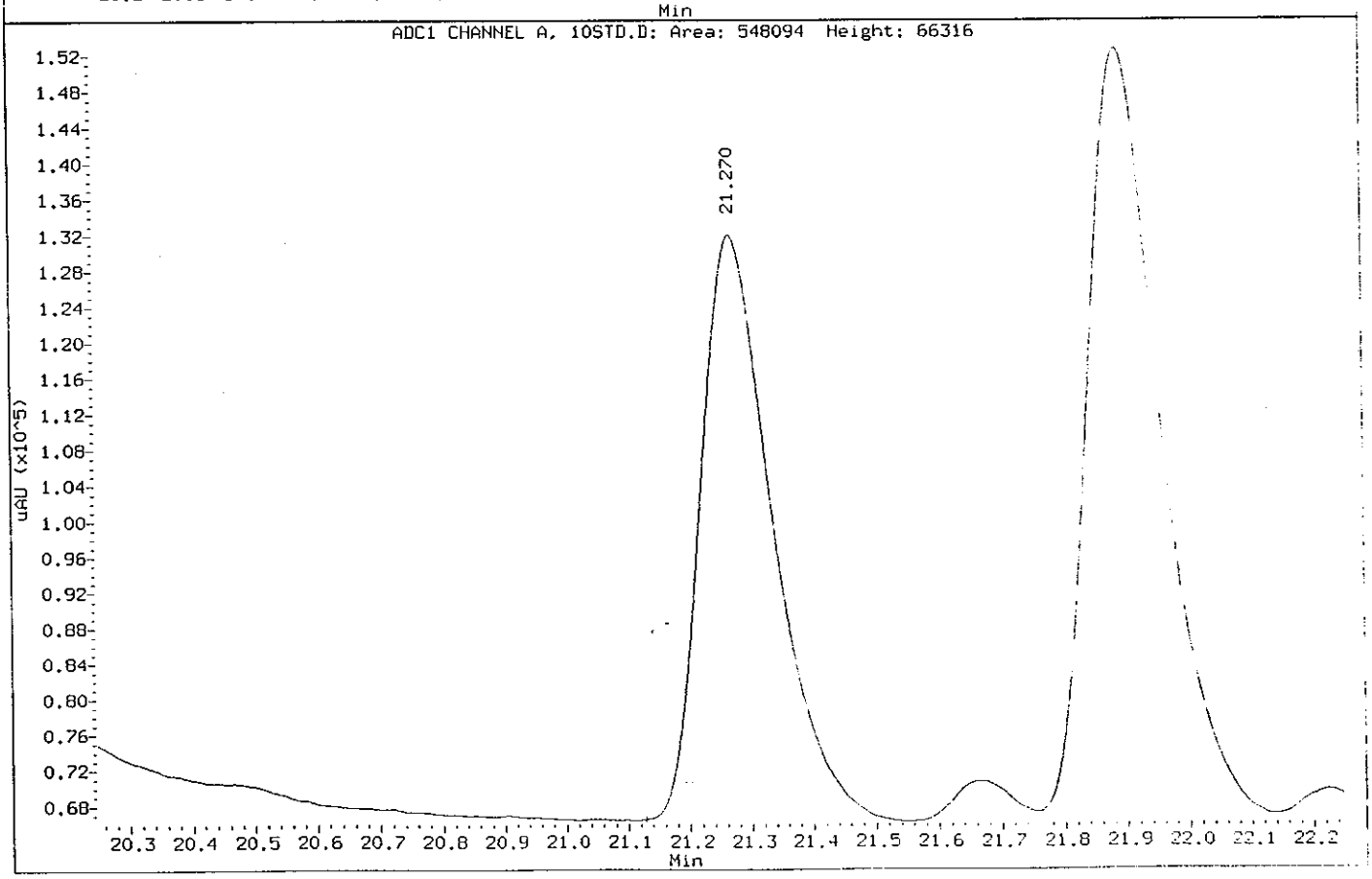
Injection Date: 22-APR-2002 13:48
Instrument: slc02.i
Client Sample ID: 10STD

Compound: Benzo(b)Fluoranthene
CAS Number: 205-99-2





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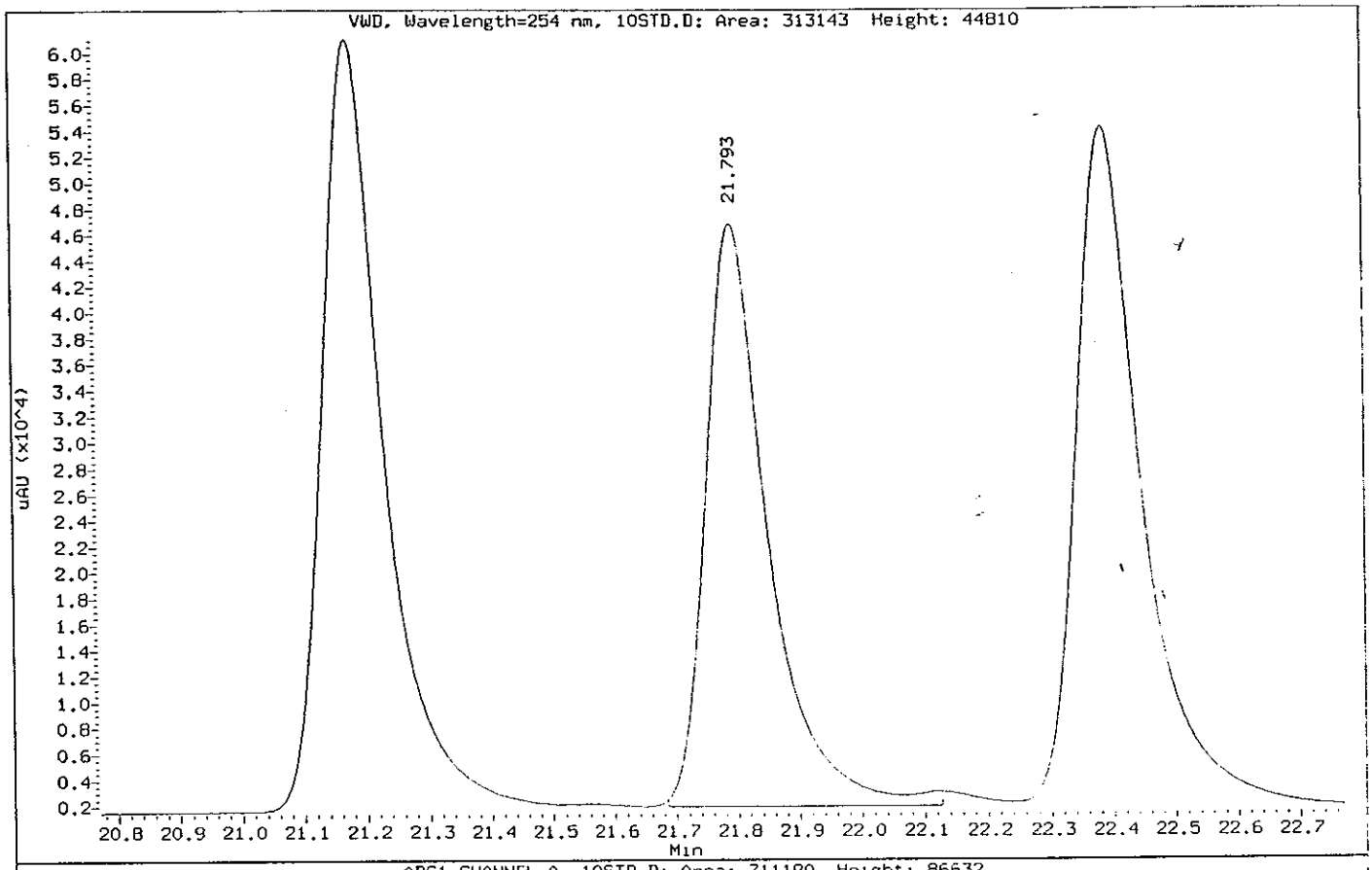
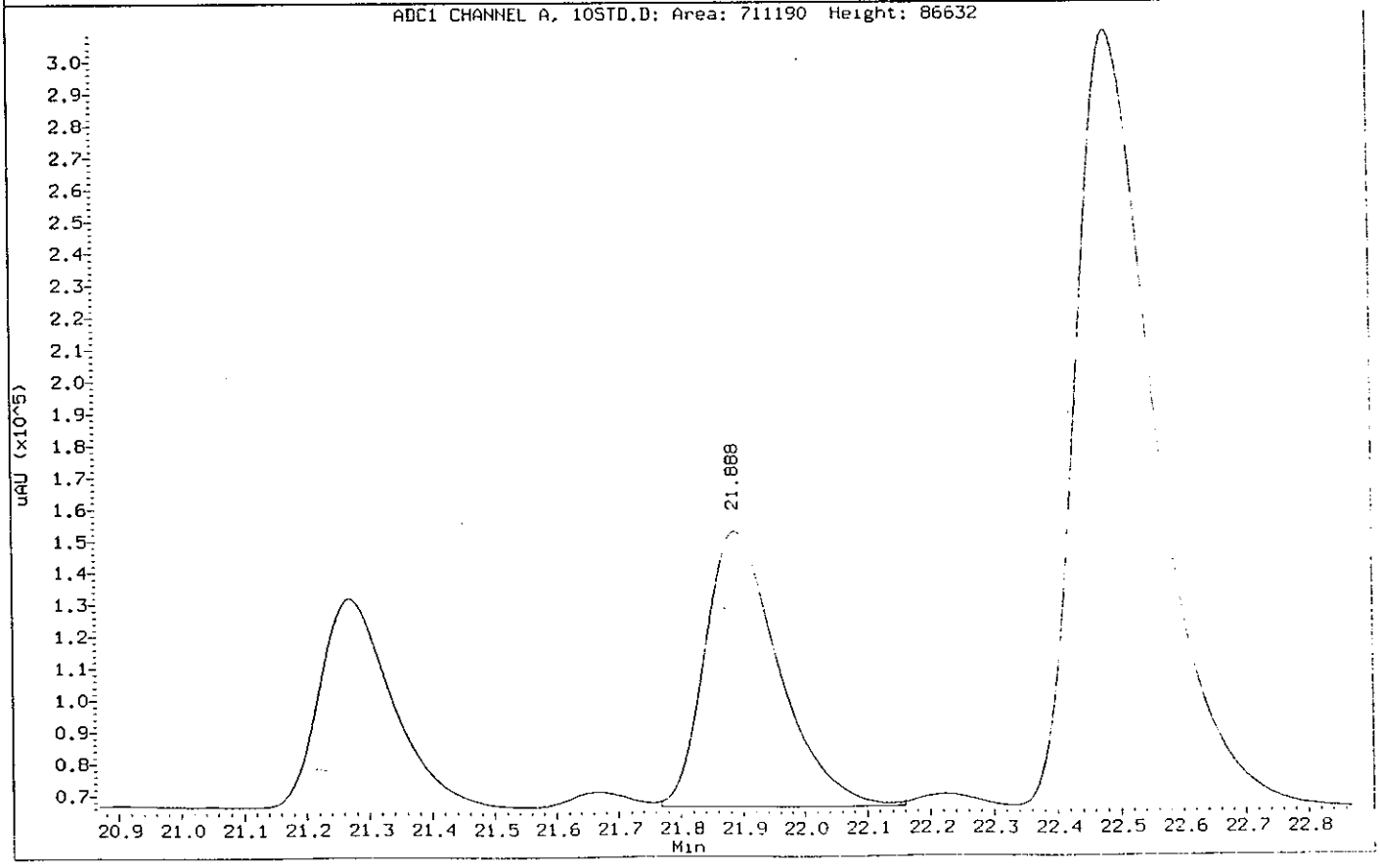
Injection Date: 22-APR-2002 13:48
Instrument: slc02.i
Client Sample ID: 10STD

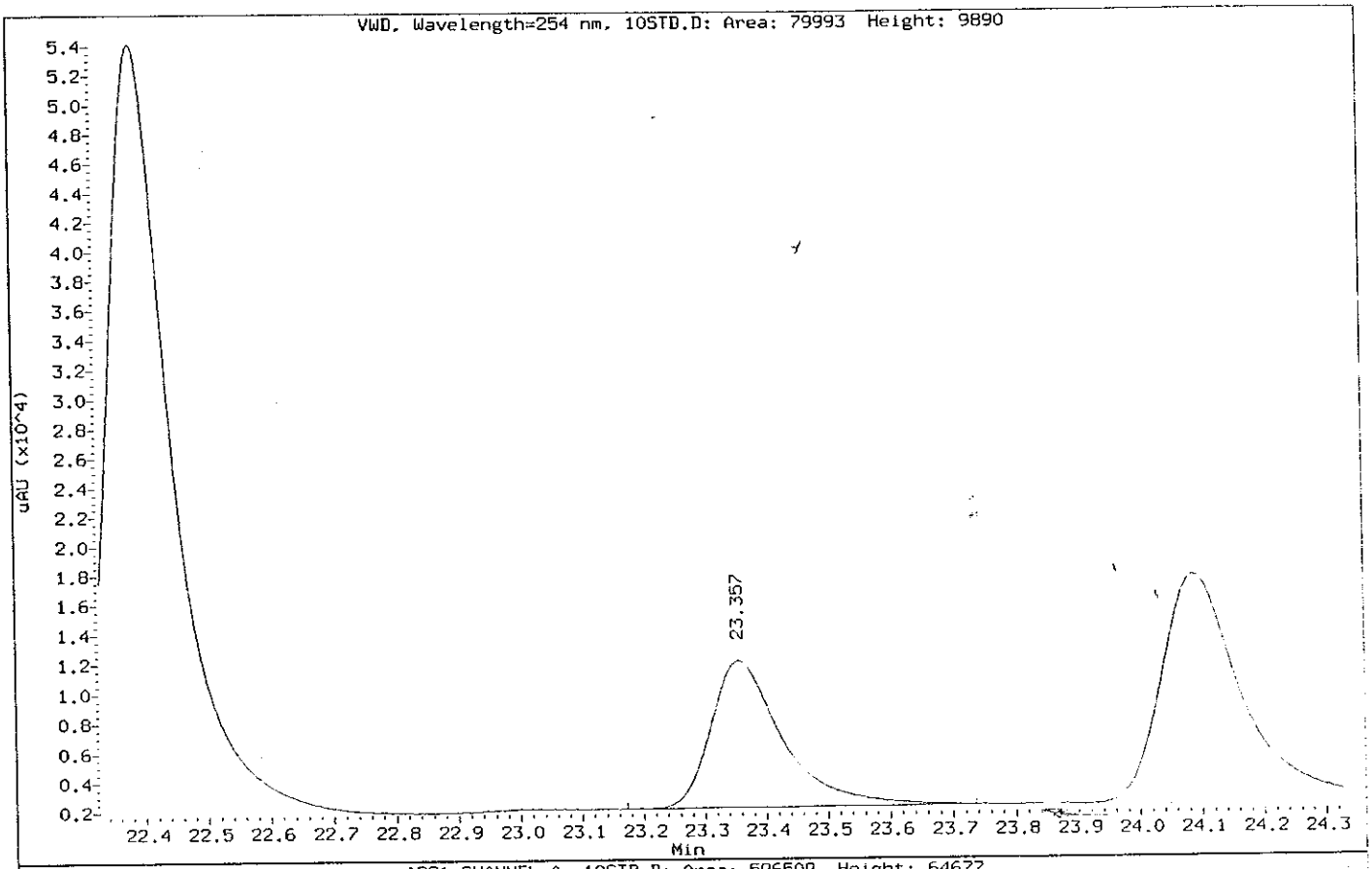
Compound: Benzo(k)Fluoranthene
CAS Number: 207-08-9

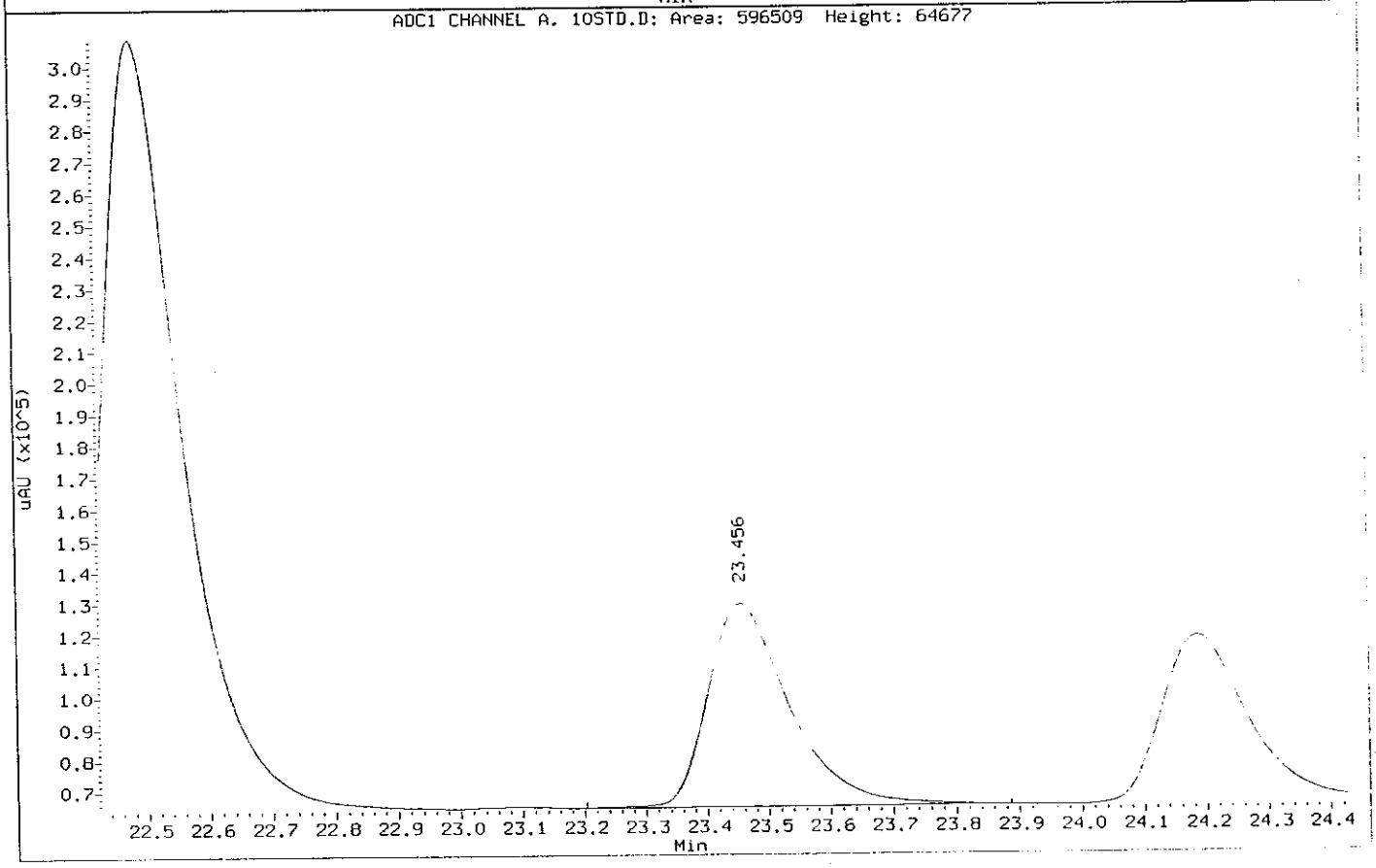




Data File: \\SVHPLC\ee\chem\slc02.i\calew423.b\10STD.D
Injection Date: 22-APR-2002 13:48
Instrument: slc02.i
Client Sample ID: 10STD

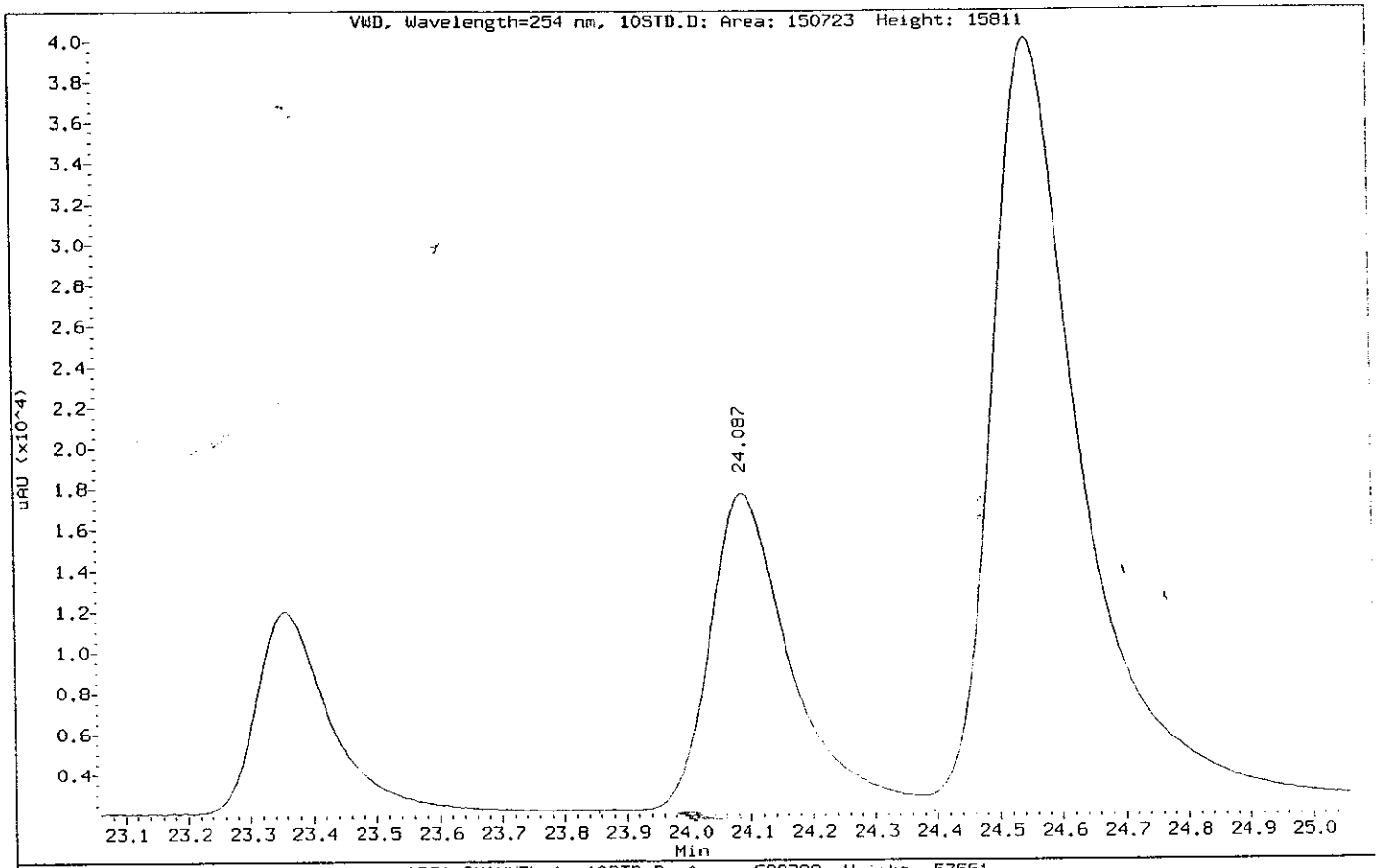
Compound: Dibenz(ah)Anthracene
CAS Number: 53-70-3

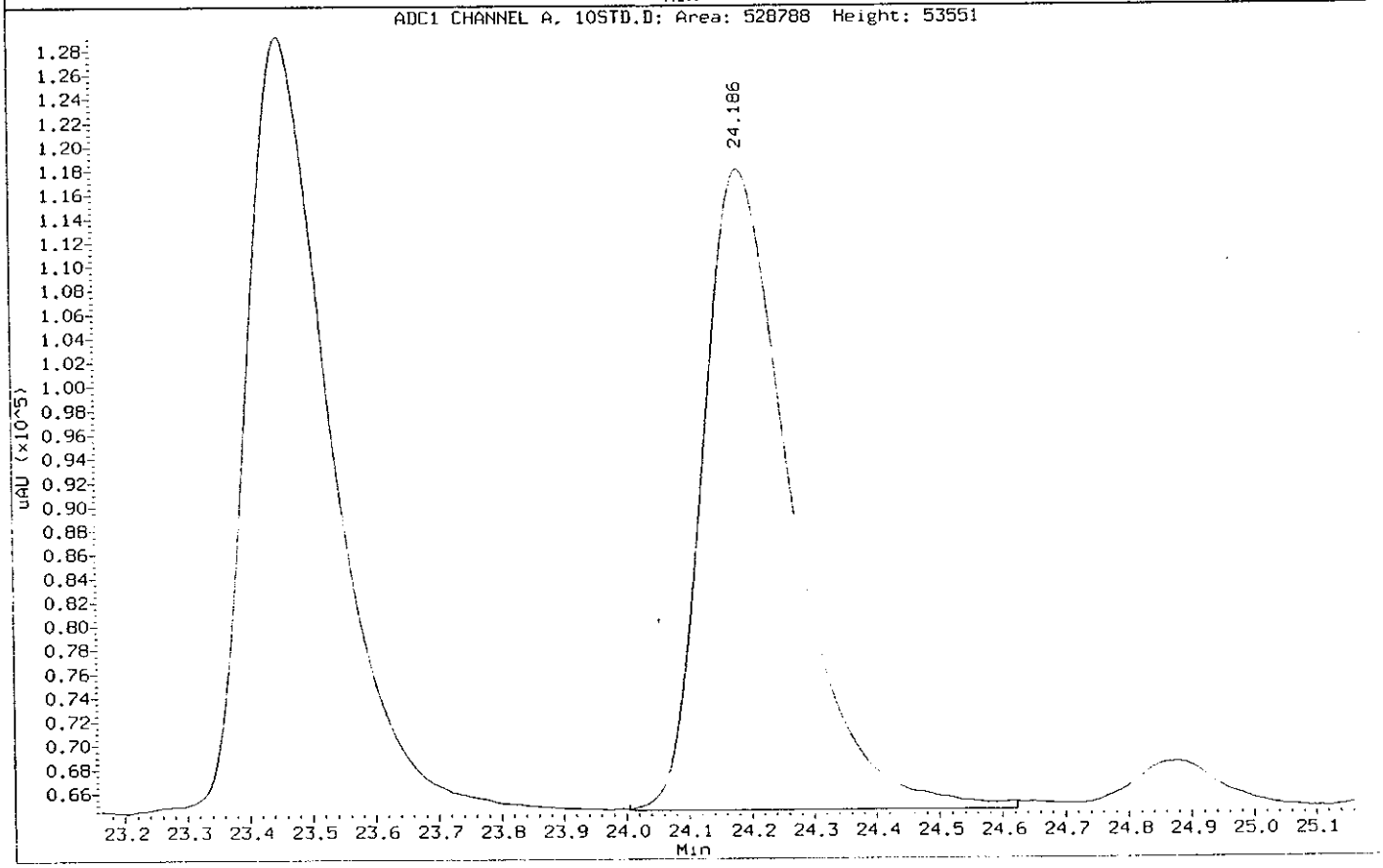




Data File: \\SVHPLC\ee\chem\slc02.i\calew423.b\10STD.D
Injection Date: 22-APR-2002 13:48
Instrument: slc02.i
Client Sample ID: 10STD

Compound: Benzo(ghi)Perylene
CAS Number: 191-24-2





PEL Laboratories, Inc.

Data file : \\SVHPLC\ee\chem\slc02.i\calew423.b\15STD.D
Lab Smp Id: SV4684 Client Smp ID: 15STD
Inj Date : 22-APR-2002 14:23
Operator : dent Inst ID: slc02.i
Smp Info : SV4684
Misc Info :
Comment :
Method : \\SVHPLC\ee\chem\slc02.i\calew423.b\8310AE.m
Meth Date : 17-May-2002 13:23 tscott Quant Type: ESTD
Cal Date : 22-APR-2002 15:32 Cal File: 30STD.D
Als bottle: 5 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.04 Sample Matrix: WATER
Processing Host: SVHPLC

Concentration Formula: Amt * DF * 1/(Vo/1000)*Vt

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume Extracted
Vt	1.000	

					AMOUNTS				
					CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	SIGNAL	RESPONSE	(ug/ml)	(ug/ml)	TARGET RANGE		RATIO
2 Naphthalene							CAS #: 91-20-3		
11.763	11.763	(0.000)	VWD1A	80324	15.0000	15.4	80.00- 120.00		100.00 (M)
11.855	11.855	(0.000)	ADC1A	212002			211.15- 316.72		263.93
3 Acenaphthylene							CAS #: 208-96-8		
12.990	12.990	(0.000)	VWD1A	60199	15.0000	15.3			(H)
4 1-Methyl naphthalene							CAS #: 90-12-0		
13.620	13.620	(0.000)	VWD1A	48321			80.00- 120.00		100.00
13.708	13.708	(0.000)	ADC1A	262576	15.0000	14.8	434.72- 652.08		543.40
5 2-Methyl naphthalene							CAS #: 91-57-6		
13.953	13.953	(0.000)	VWD1A	67682	15.0000	15.4	80.00- 120.00		100.00
14.047	14.047	(0.000)	ADC1A	389100			459.92- 689.87		574.89

					AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	
RT	EXP RT	DLT RT	SIGNAL	RESPONSE					
6 Acenaphthene							CAS #: 83-32-9		
14.290	14.290	(0.000)	VWD1A	29860			80.00- 120.00	100.00	
14.380	14.380	(0.000)	ADC1A	345114	15.0000	14.8	924.62-1386.93	1155.77	
7 Fluorene							CAS #: 86-73-7		
14.650	14.650	(0.000)	VWD1A	363060	15.0000	15.4			
8 Phenanthrene							CAS #: 85-01-8		
15.460	15.460	(0.000)	VWD1A	995736			80.00- 120.00	100.00	(M)
15.553	15.553	(0.000)	ADC1A	8698529	15.0000	15.4	698.86-1048.29	873.58	
9 Anthracene							CAS #: 120-12-7		
16.190	16.190	(0.000)	VWD1A	2278413	15.0000	16.0	80.00- 120.00	100.00	(M)
16.300	16.300	(0.000)	ADC1A	18689817			656.24- 984.36	820.30	
10 Fluoranthene							CAS #: 206-44-0		
17.020	17.020	(0.000)	VWD1A	240291	15.0000	15.3			
11 Pyrene							CAS #: 129-00-0		
17.563	17.563	(0.000)	VWD1A	210937	15.0000	15.2	80.00- 120.00	100.00	(M)
17.658	17.658	(0.000)	ADC1A	13682917			5189.39-7784.08	6486.73	
$ 12 p-Terphenyl-d14 (SURR)							CAS #: 1718-51-0		
18.556	18.556	(0.000)	VWD1A	214261	15.0000	15.3	80.00- 120.00	100.00	
18.650	18.650	(0.000)	ADC1A	10398112			3882.41-5823.61	4853.01	
13 Benzo(a)Anthracene							CAS #: 56-55-3		
19.353	19.353	(0.000)	VWD1A	563467	15.0000	15.3	80.00- 120.00	100.00	(M)
19.450	19.450	(0.000)	ADC1A	9839665			1397.02-2095.53	1746.27	
14 Chrysene							CAS #: 218-01-9		
19.746	19.746	(0.000)	VWD1A	791648	15.0000	15.3	80.00- 120.00	100.00	
19.873	19.873	(0.000)	ADC1A	20247211			2046.08-3069.12	2557.60	
15 Benzo(b)Fluoranthene							CAS #: 205-99-2		
21.166	21.166	(0.000)	VWD1A	625143	15.0000	15.3	80.00- 120.00	100.00	(M)
21.263	21.263	(0.000)	ADC1A	881960			112.87- 169.30	141.08	
16 Benzo(k)Fluoranthene							CAS #: 207-08-9		
21.786	21.786	(0.000)	VWD1A	485875	15.0000	15.8	80.00- 120.00	100.00	(M)
21.883	21.883	(0.000)	ADC1A	1123585			185.00- 277.50	231.25	
17 Benzo(a)pyrene							CAS #: 50-32-8		
22.380	22.380	(0.000)	VWD1A	580730			80.00- 120.00	100.00	
22.478	22.478	(0.000)	ADC1A	3299278	15.0000	15.3	454.50- 681.75	568.13	

					AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	
RT	EXP RT	DLT RT	SIGNAL	RESPONSE					
18 Dibenz(ah)Anthracene						CAS #: 53-70-3			
23.346	23.346	(0.000)	VWD1A	124833	15.0000	15.1	80.00- 120.00	100.00	(M)
23.447	23.447	(0.000)	ADC1A	948803			608.05- 912.07	760.06	
19 Benzo(ghi)Perylene						CAS #: 191-24-2			
24.080	24.080	(0.000)	VWD1A	210727	15.0000	14.8	80.00- 120.00	100.00	(M)
24.177	24.177	(0.000)	ADC1A	855805			324.90- 487.34	406.12	
20 Indeno(123cd)Pyrene						CAS #: 193-39-5			
24.540	24.540	(0.000)	VWD1A	550680	15.0000	14.9			(M)

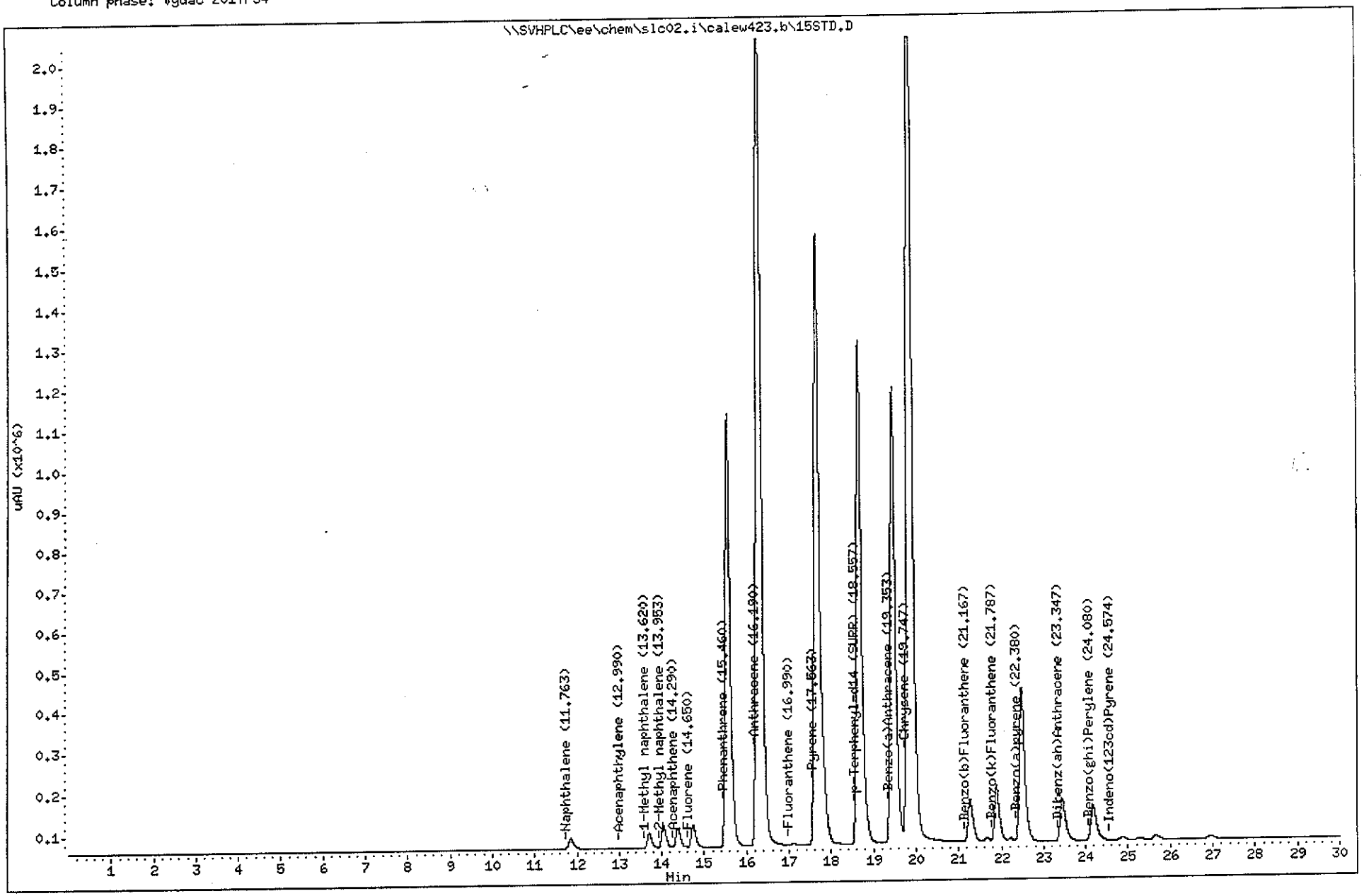
QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\SVHPLC\ee\chem\slc02.i\calew423.b\15STD.D
Date : 22-APR-2002 14:23
Client ID: 15STD
Sample Info: SV4684
Purge Volume: 1000.0
Column phase: Vydac 201TP54

Instrument: slc02.i

Operator: dent
Column diameter: 4.60



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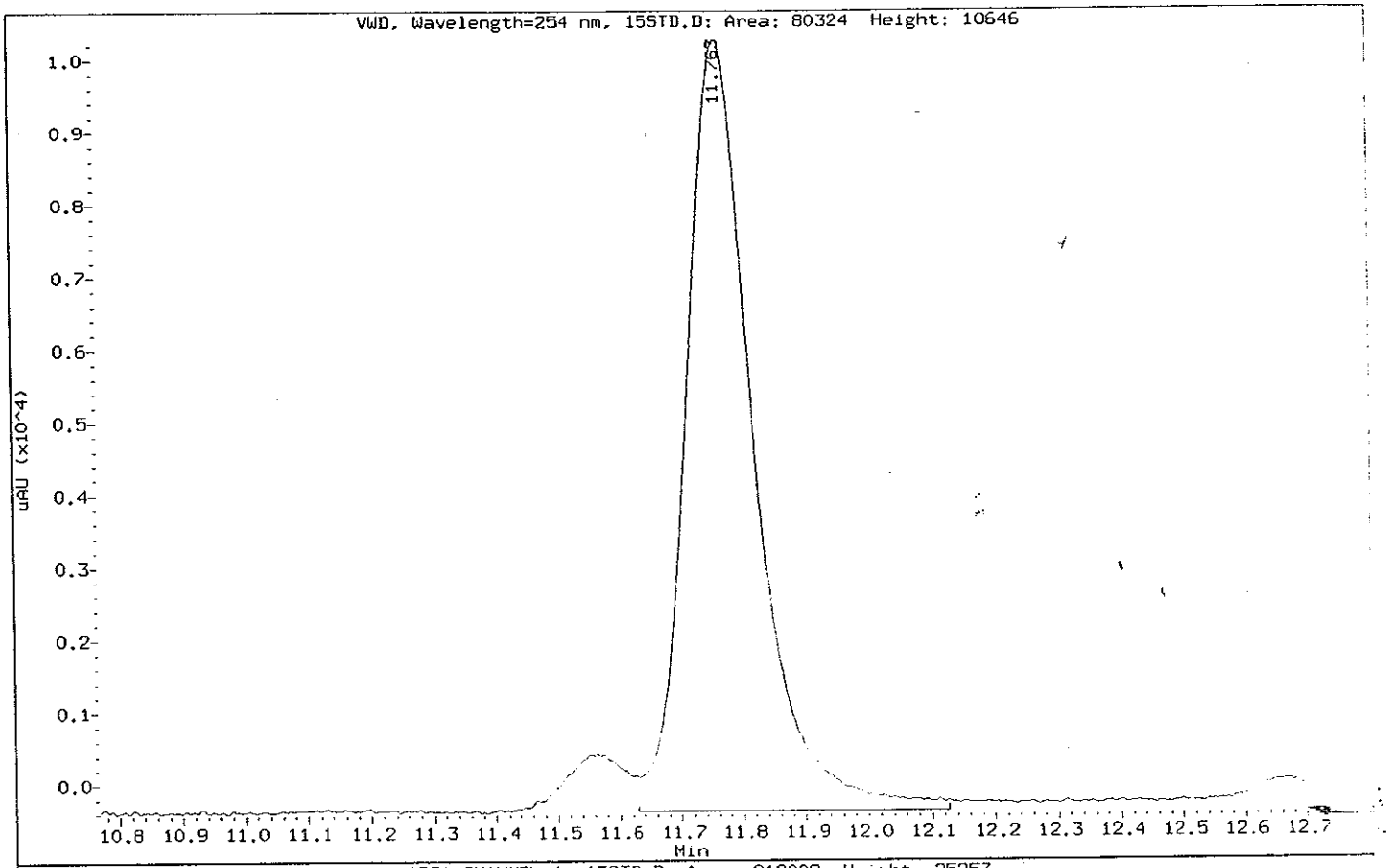
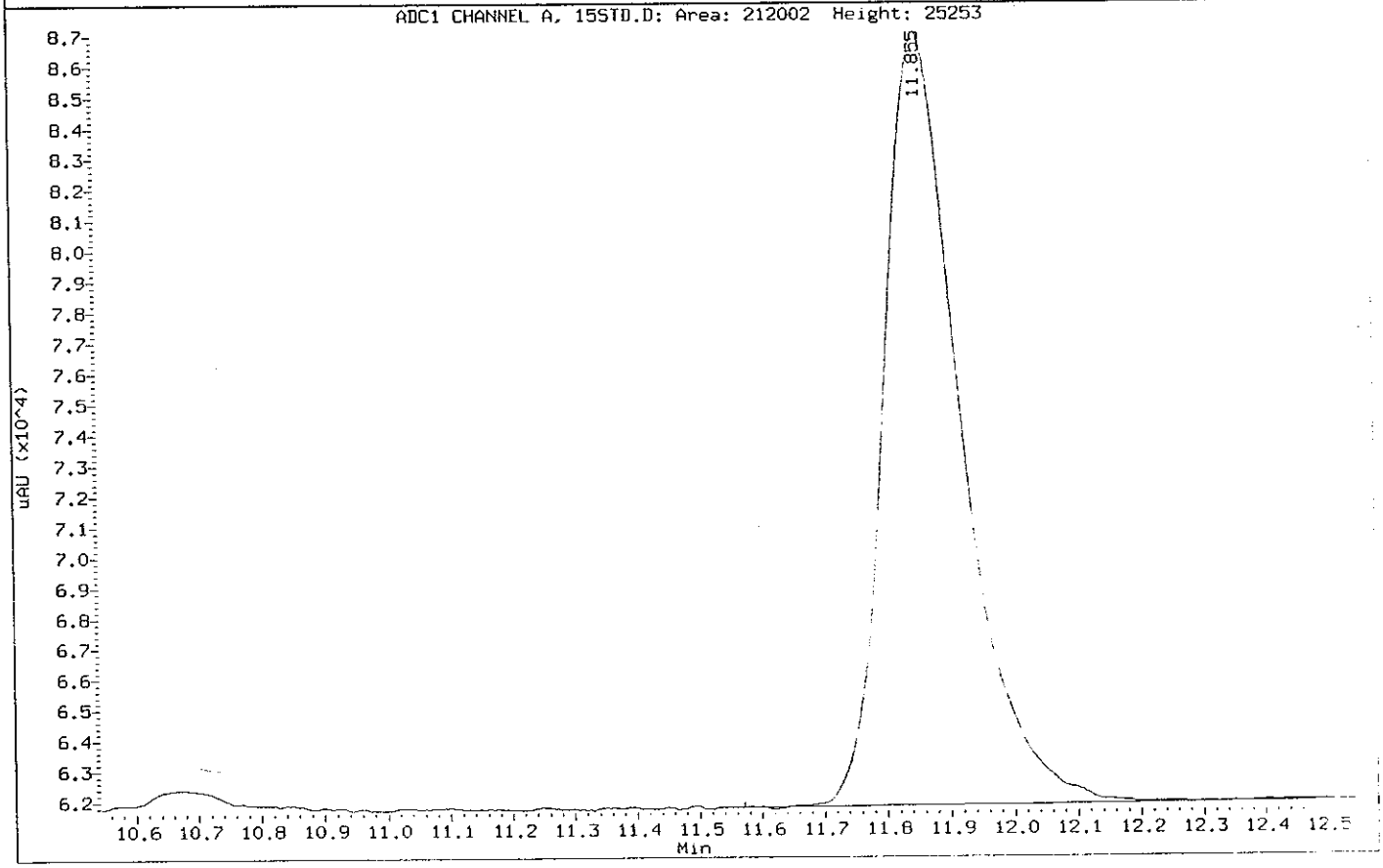
Injection Date: 22-APR-2002 14:23
Instrument: slc02.i
Client Sample ID: 15STD

Compound: Naphthalene
CAS Number: 91-20-3





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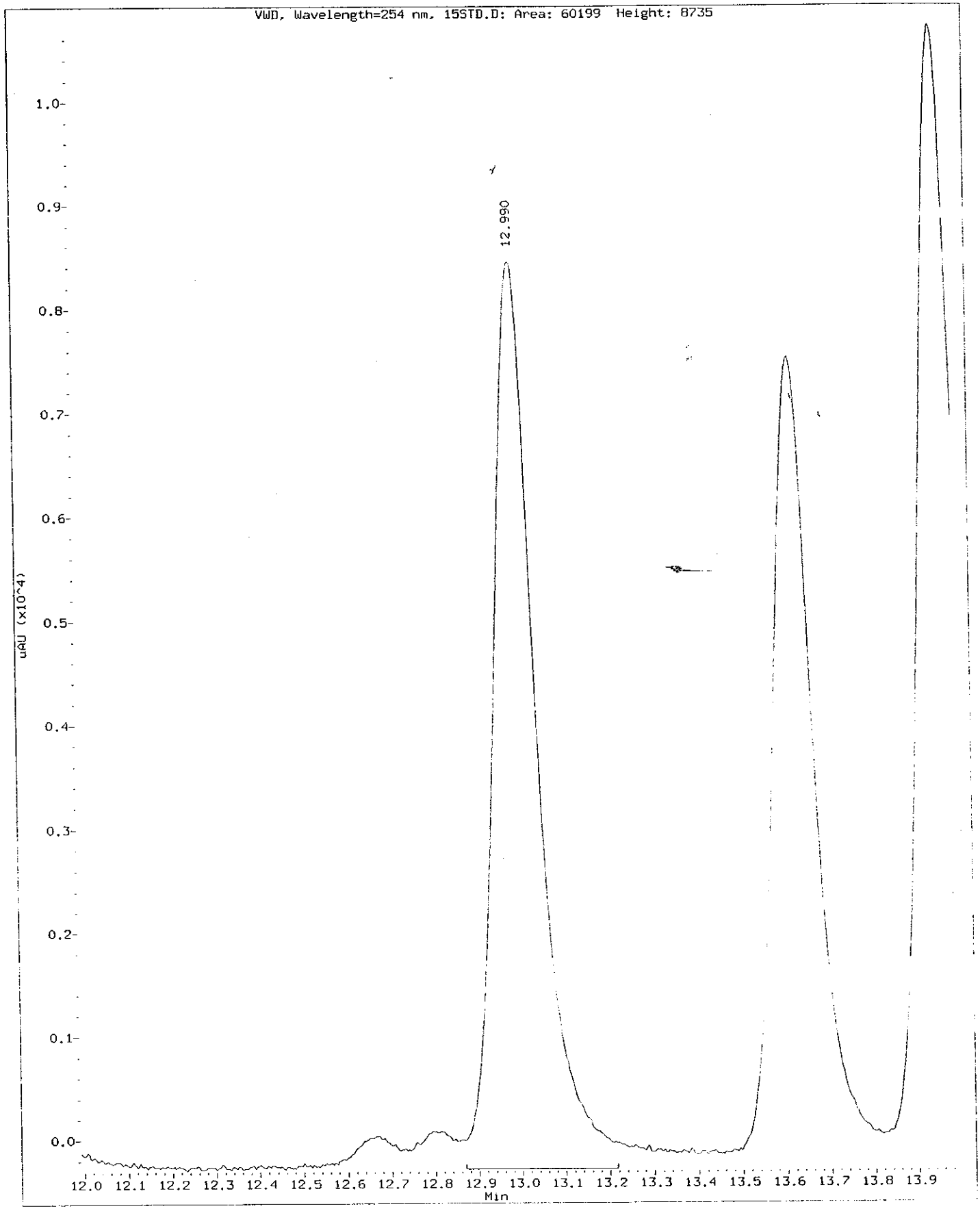
Injection Date: 22-APR-2002 14:23
Instrument: slc02.i
Client Sample ID: 15STD

Compound: Acenaphthylene
CAS Number: 208-96-8



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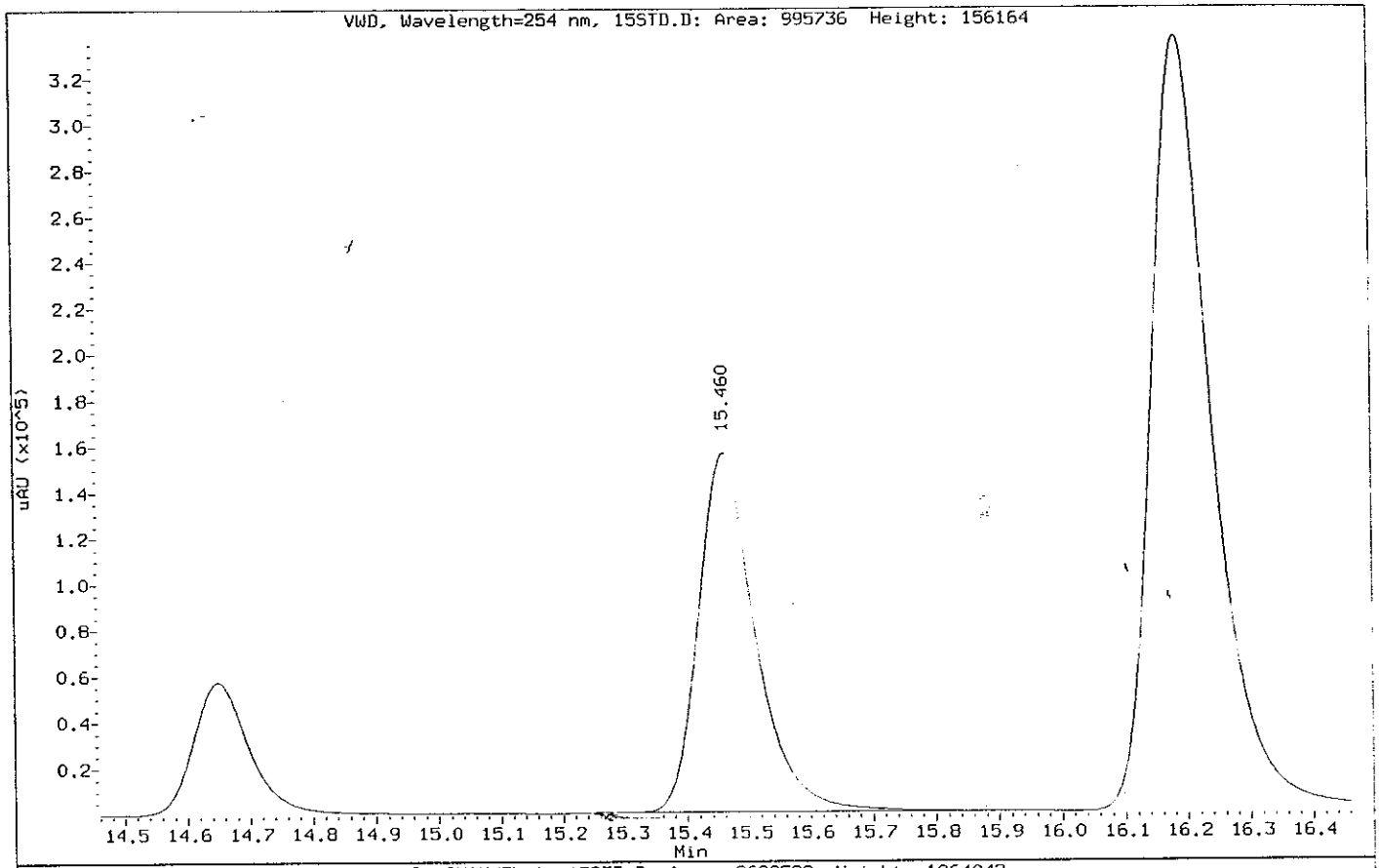
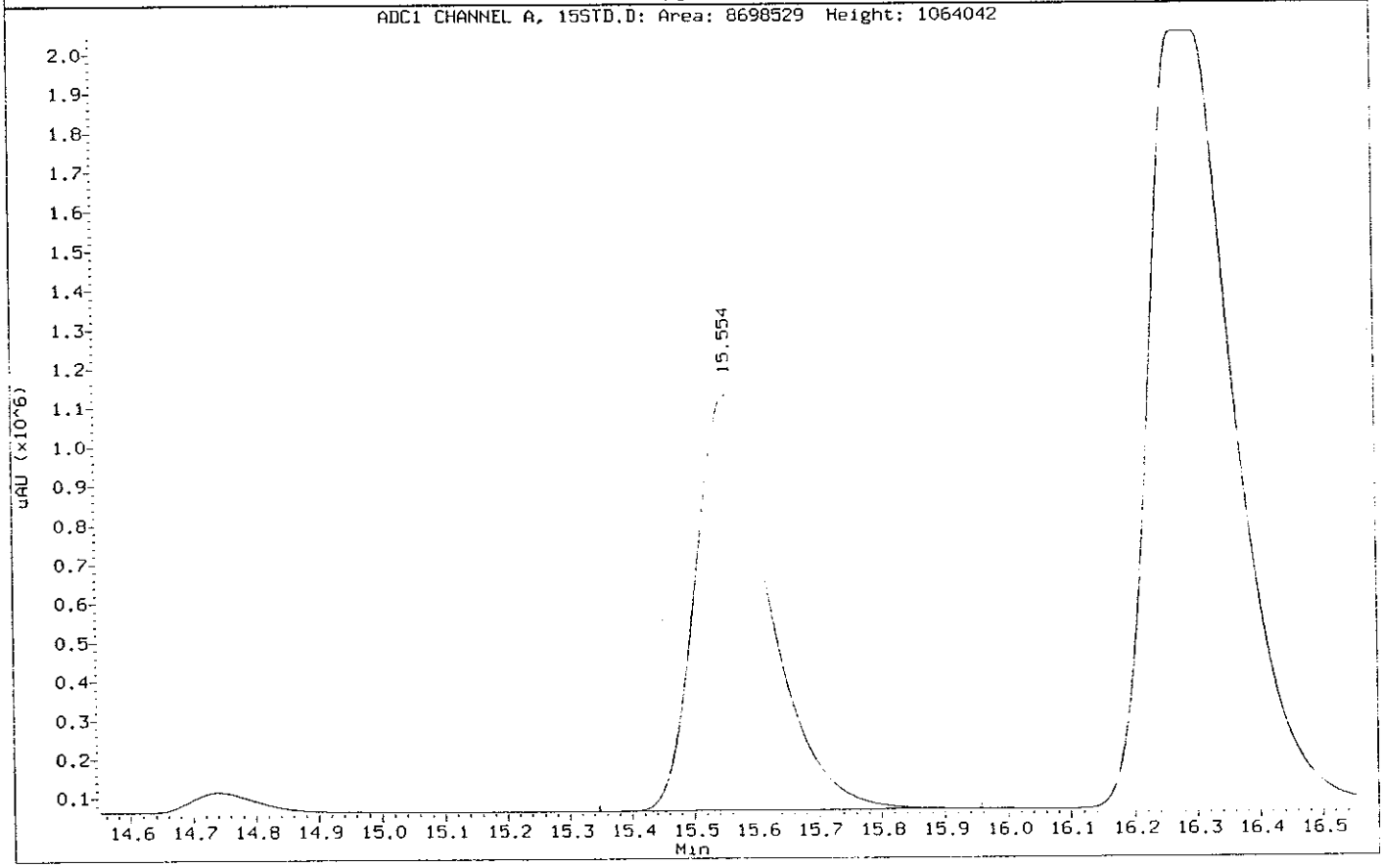
Injection Date: 22-APR-2002 14:23
Instrument: slc02.i
Client Sample ID: 15STD

Compound: Phenanthrene
CAS Number: 85-01-8





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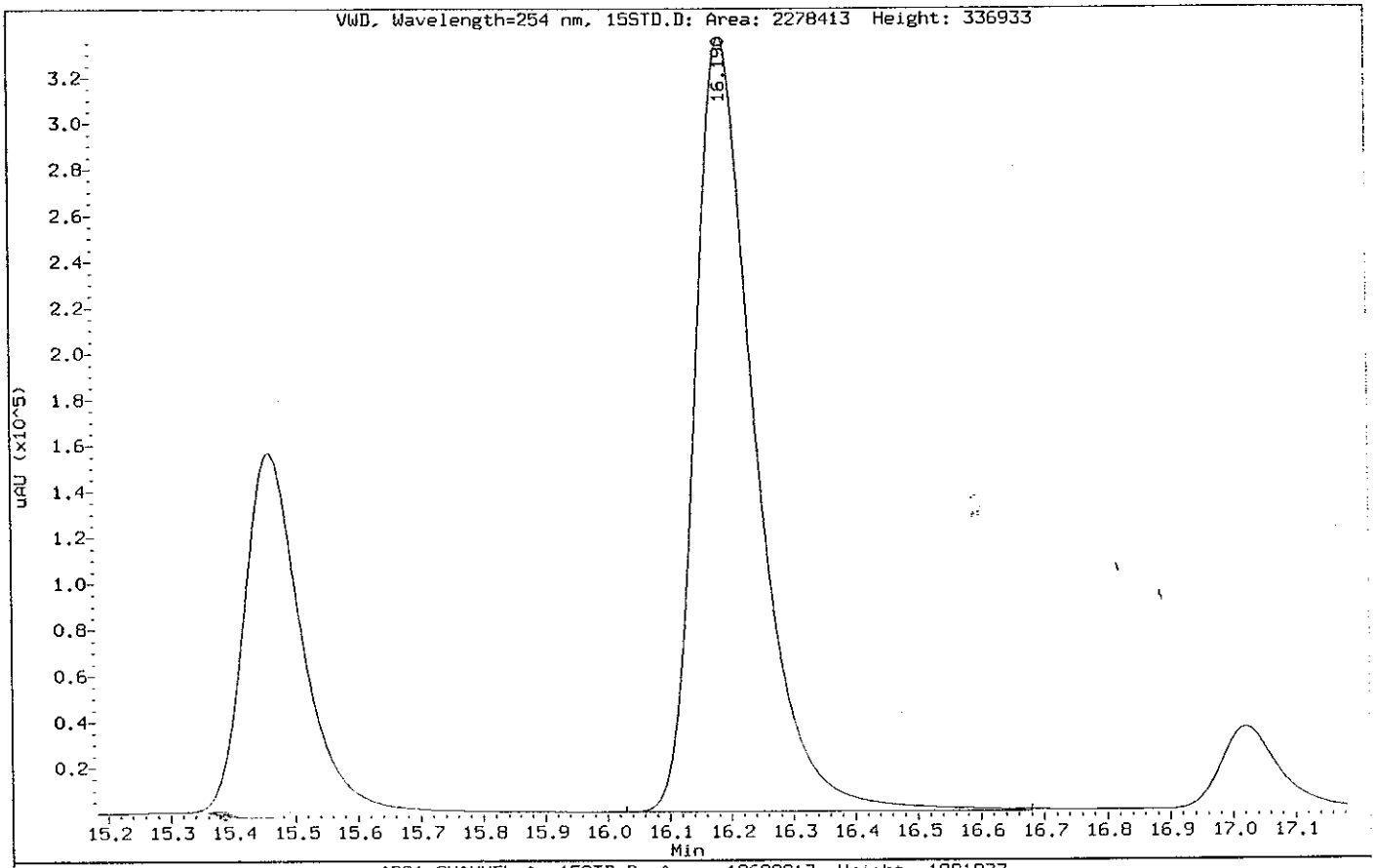
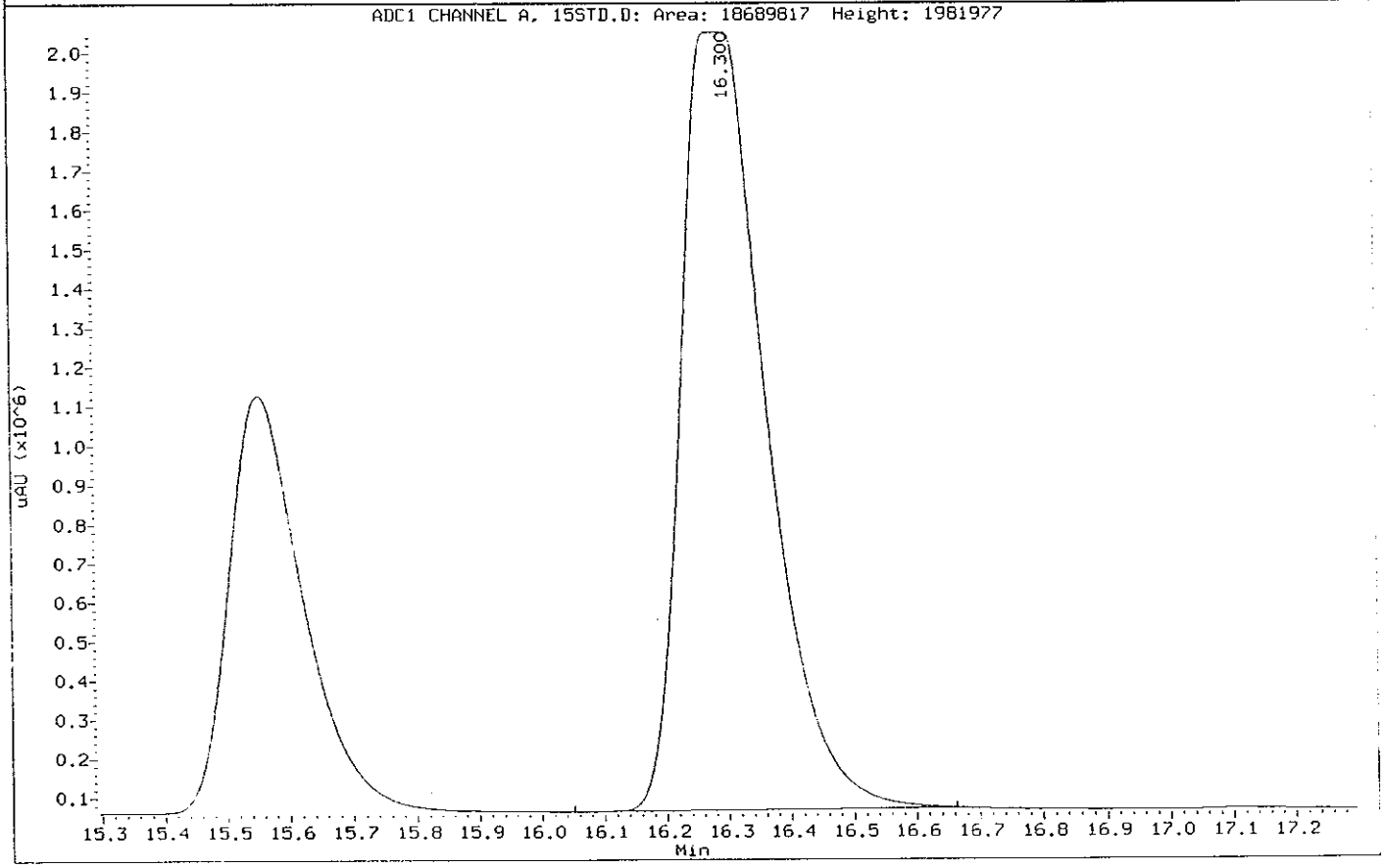
Injection Date: 22-APR-2002 14:23
Instrument: slc02.i
Client Sample ID: 15STD

Compound: Anthracene
CAS Number: 120-12-7





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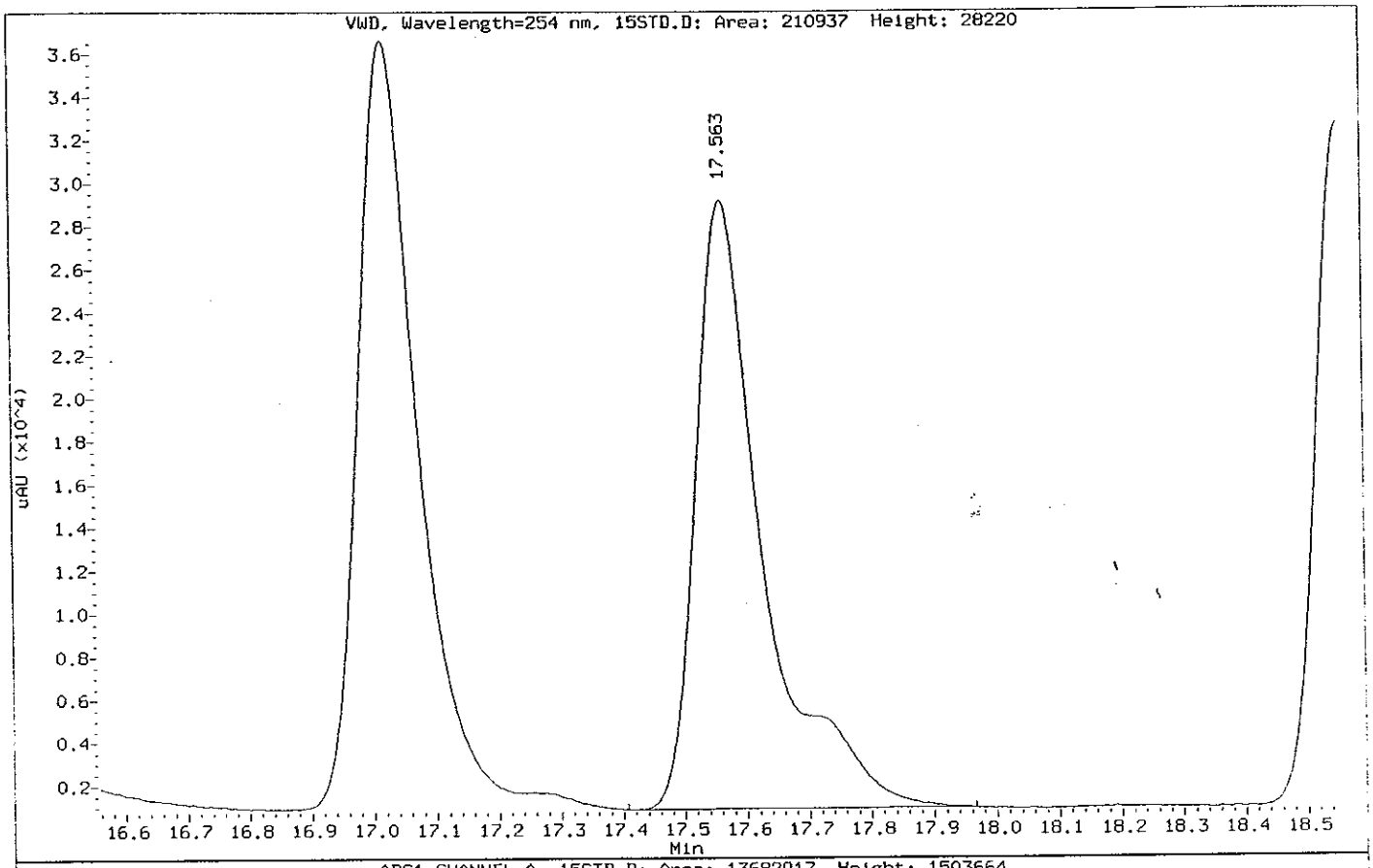
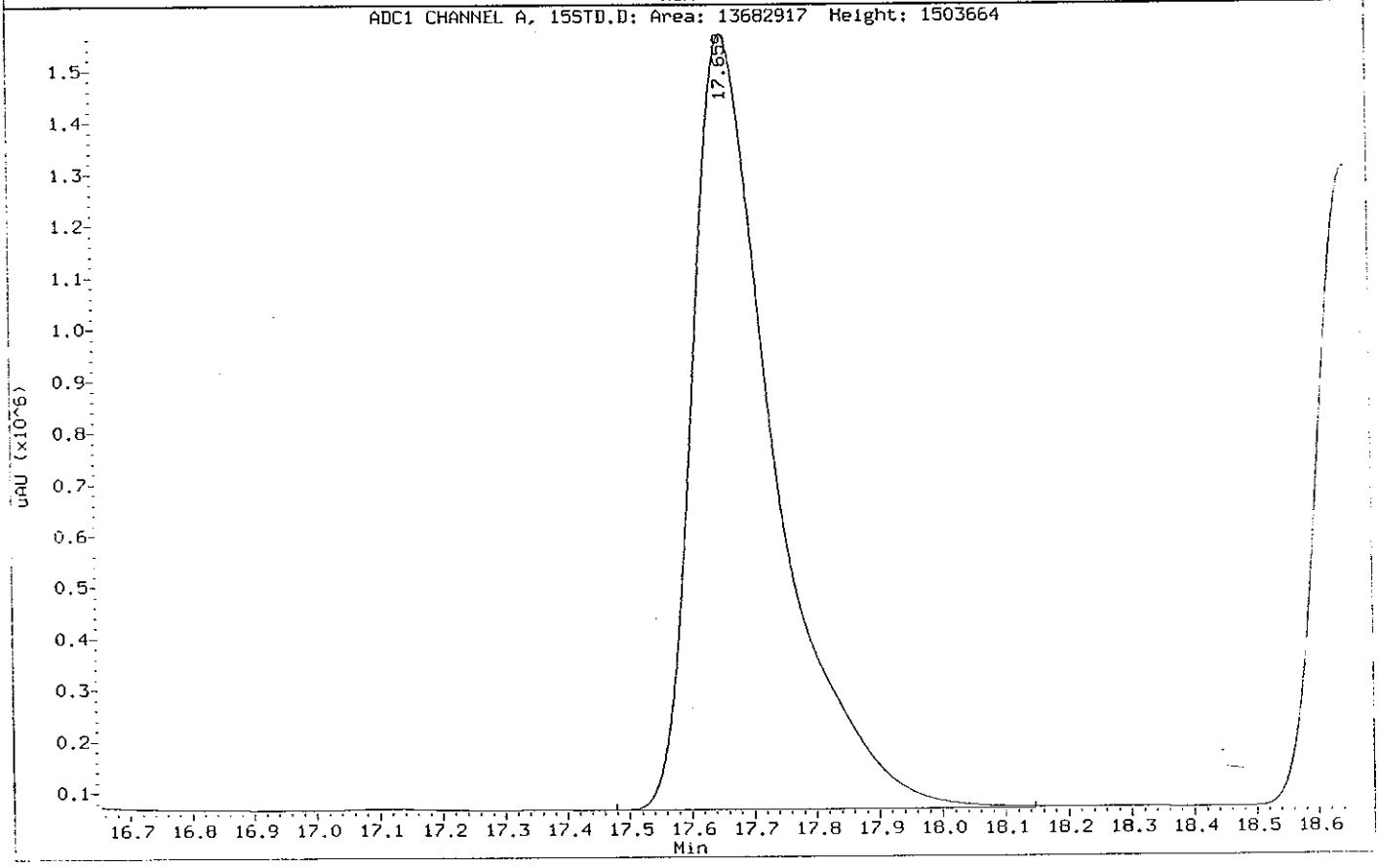
Injection Date: 22-APR-2002 14:23
Instrument: slc02.i
Client Sample ID: 15STD

Compound: Pyrene
CAS Number: 129-00-0





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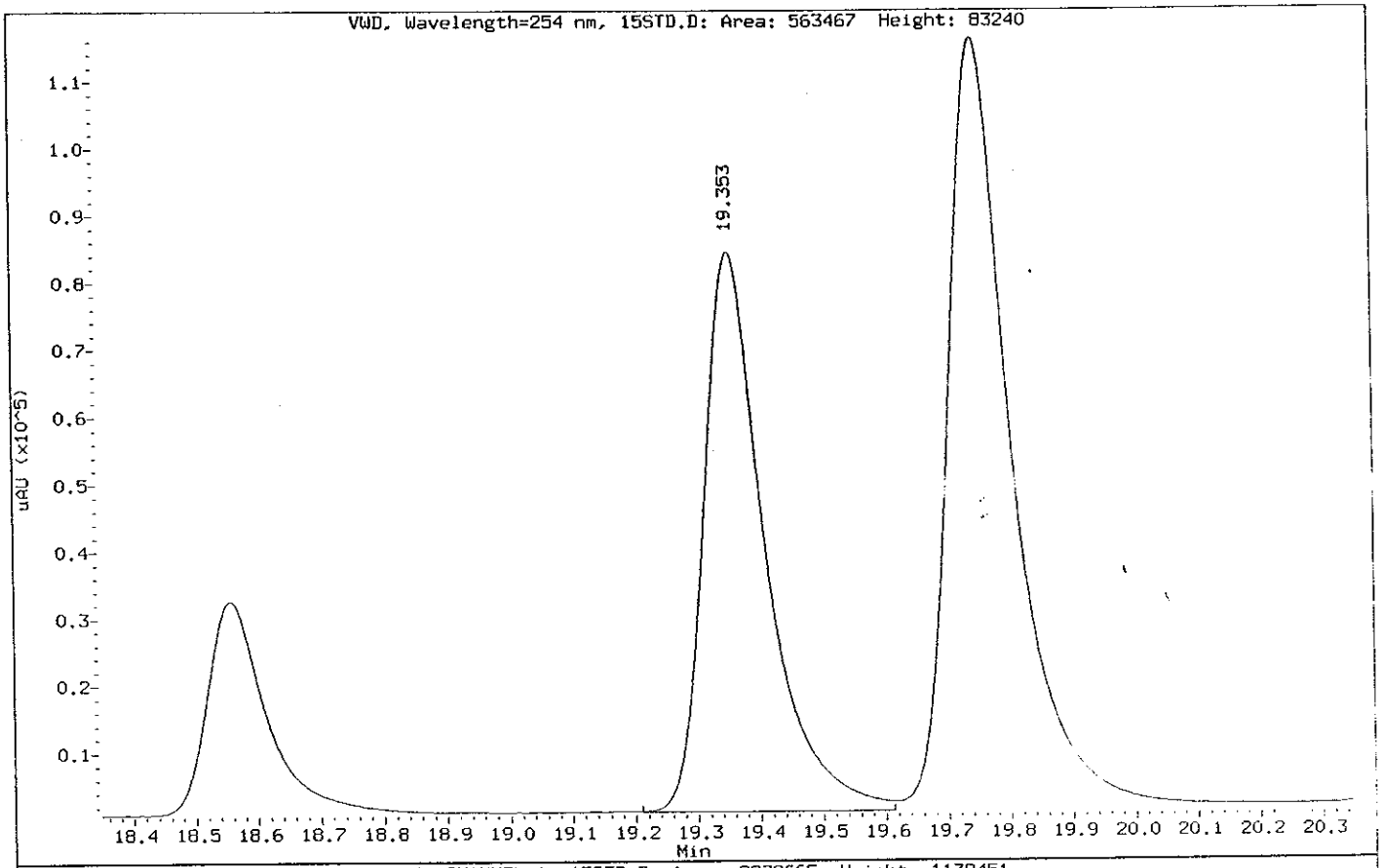
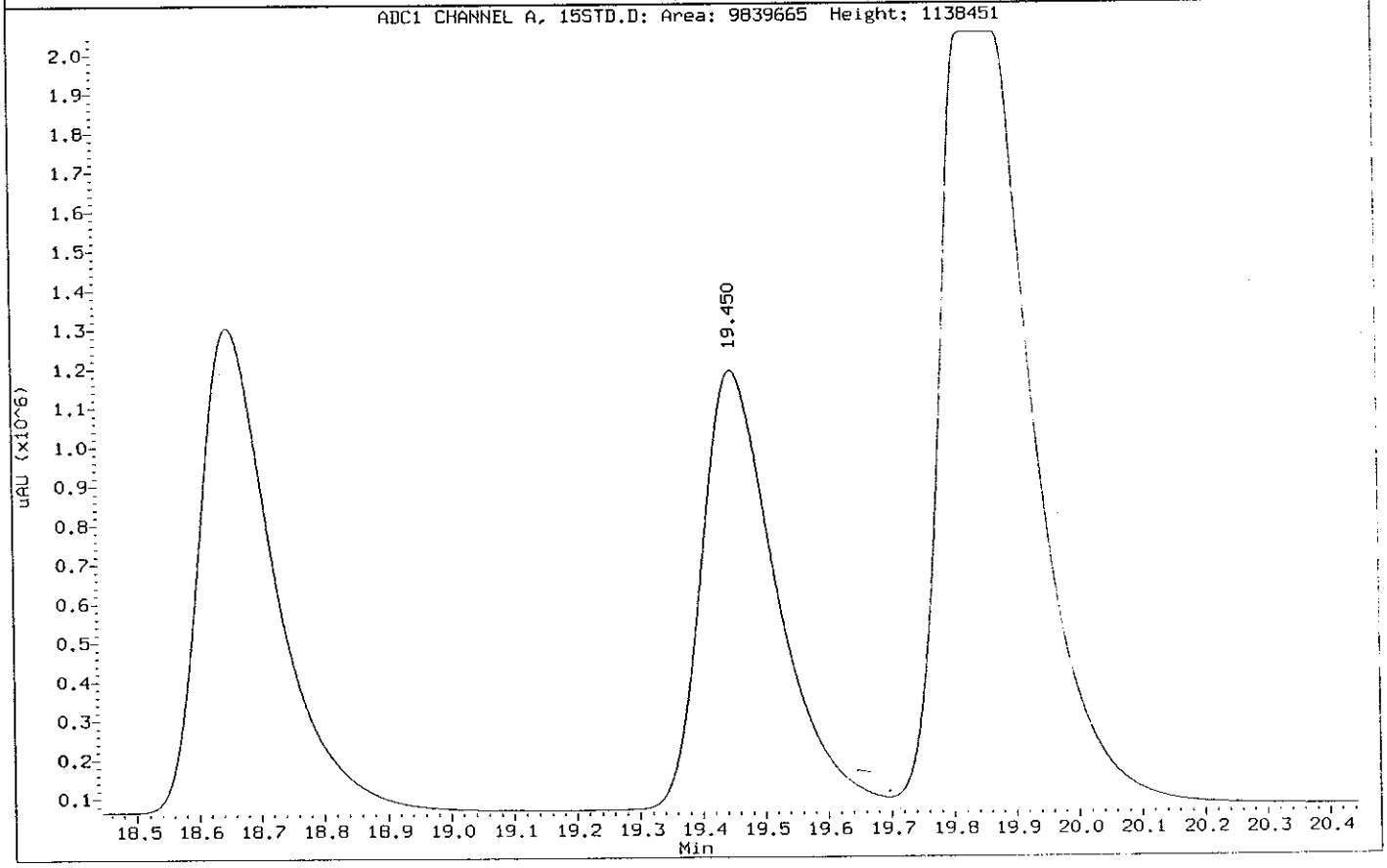
Injection Date: 22-APR-2002 14:23
Instrument: slc02.i
Client Sample ID: 15STD

Compound: Benzo(a)Anthracene
CAS Number: 56-55-3





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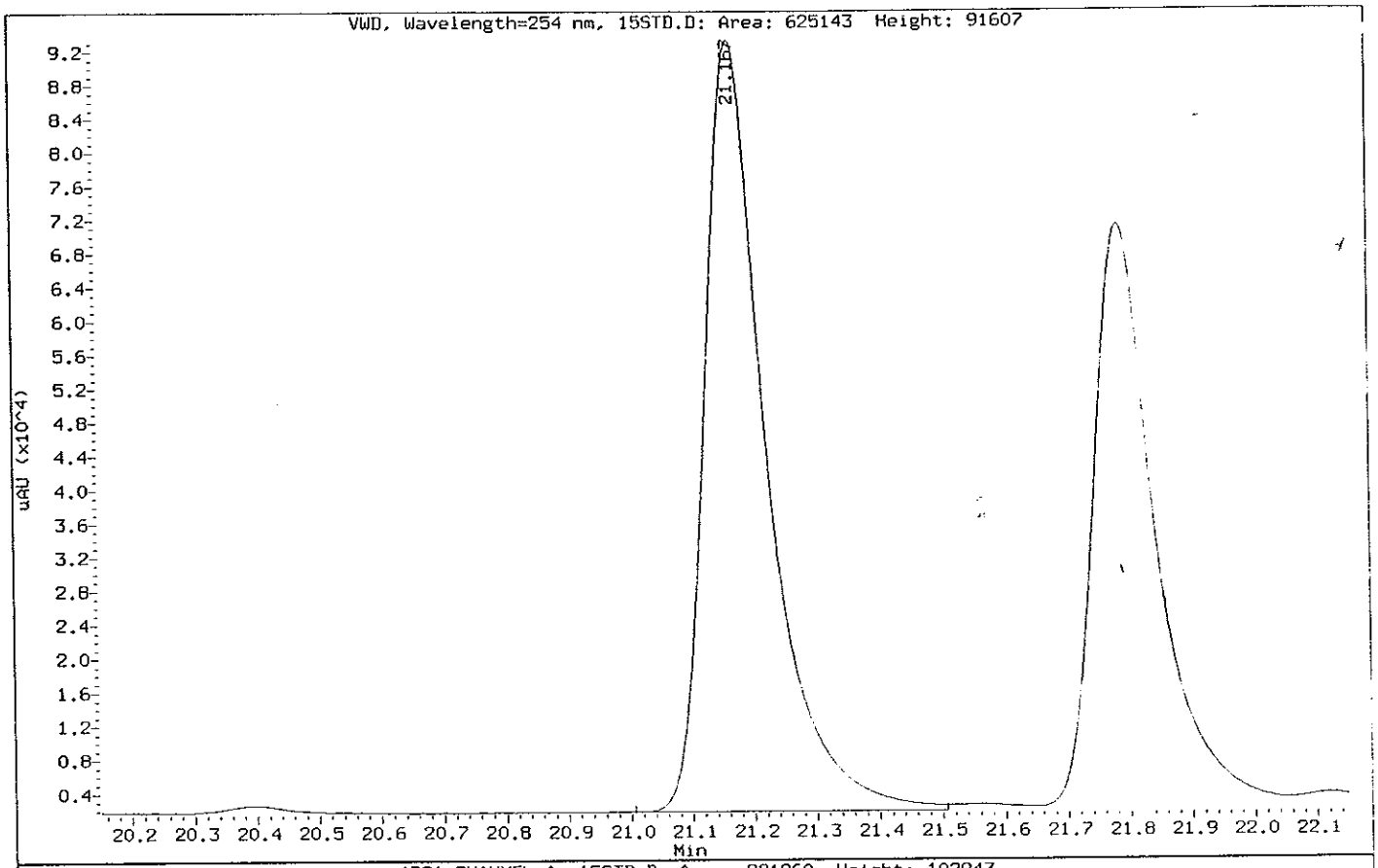
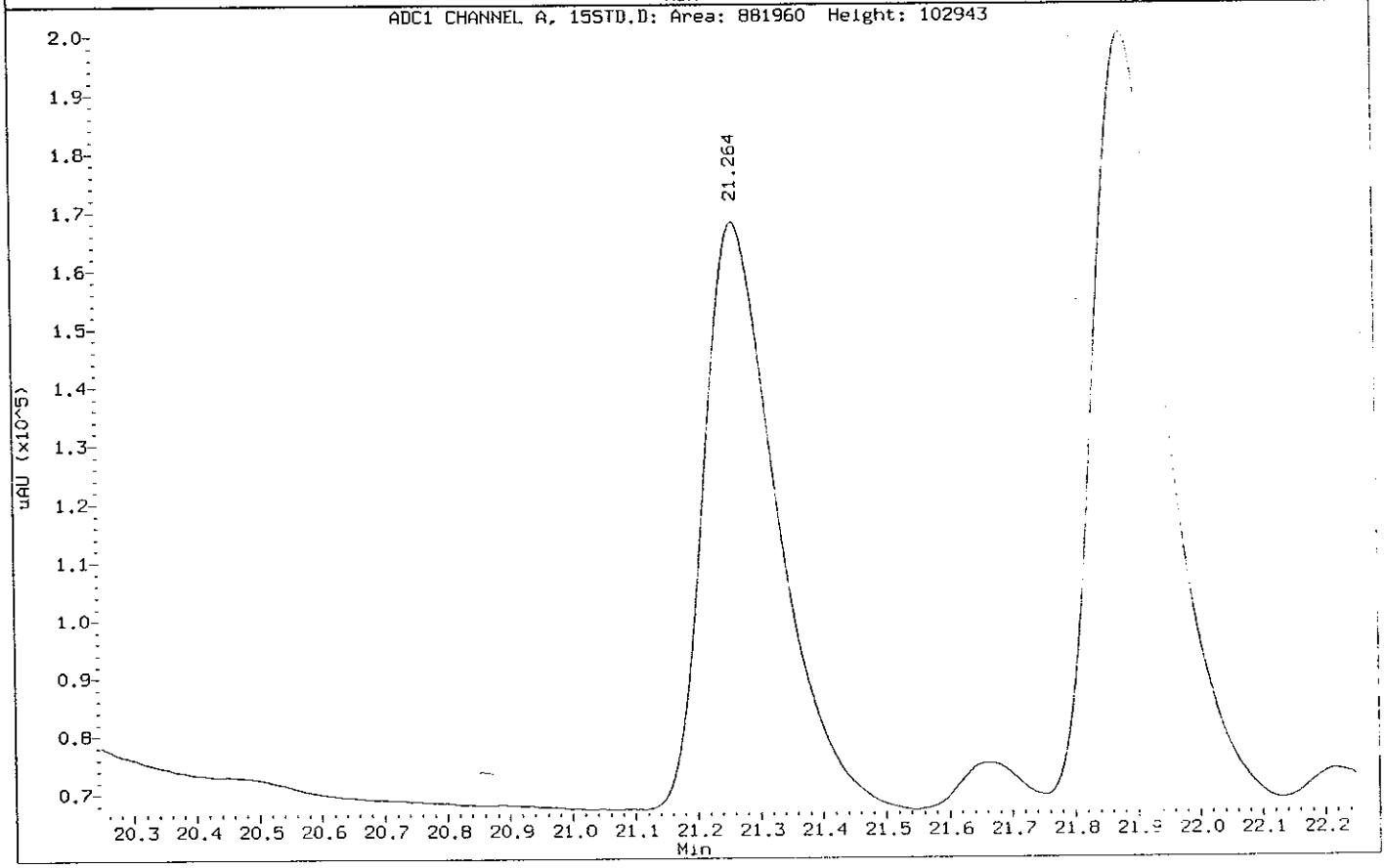
Injection Date: 22-APR-2002 14:23
Instrument: slc02.i
Client Sample ID: 15STD

Compound: Benzo(b)Fluoranthene
CAS Number: 205-99-2





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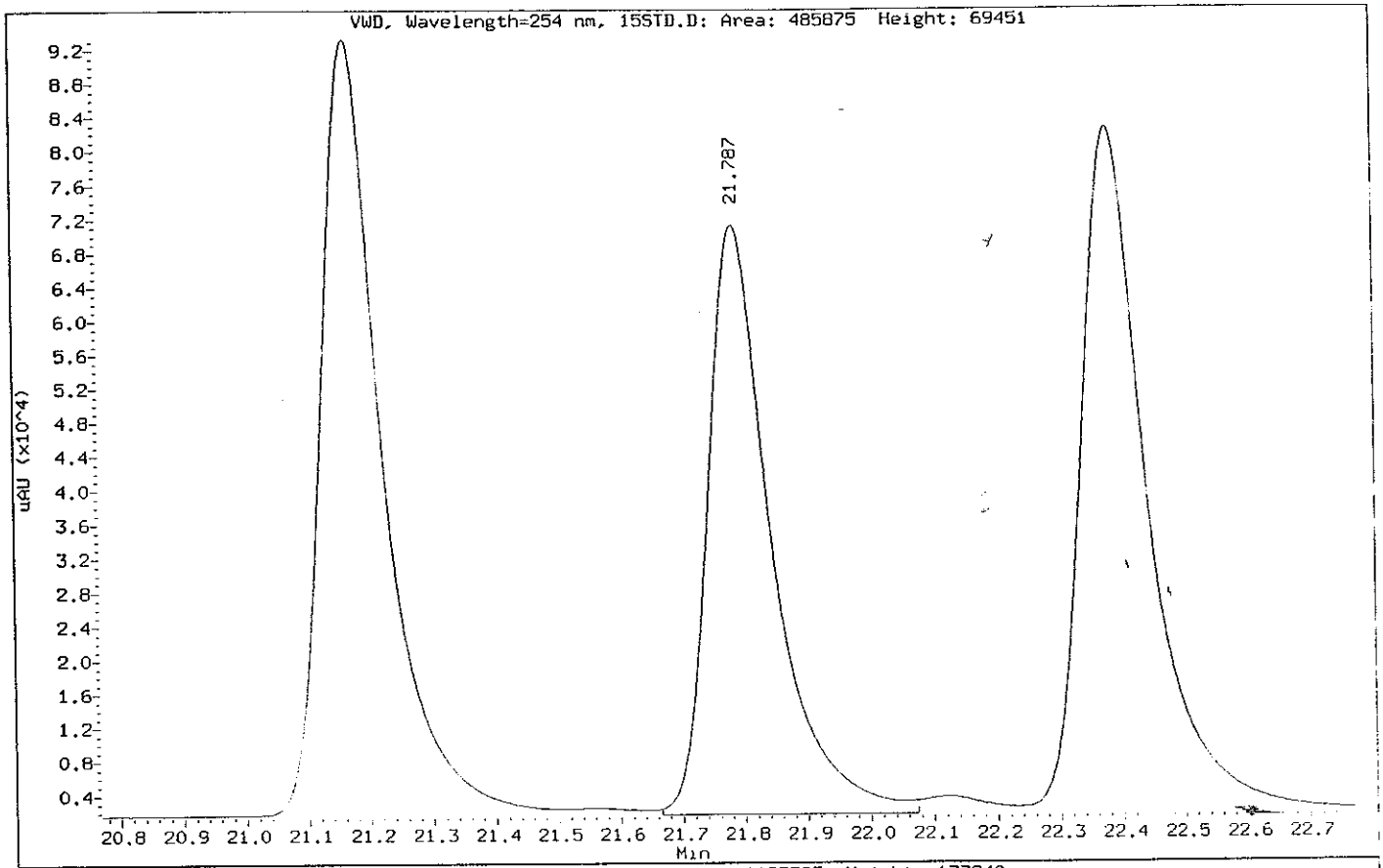
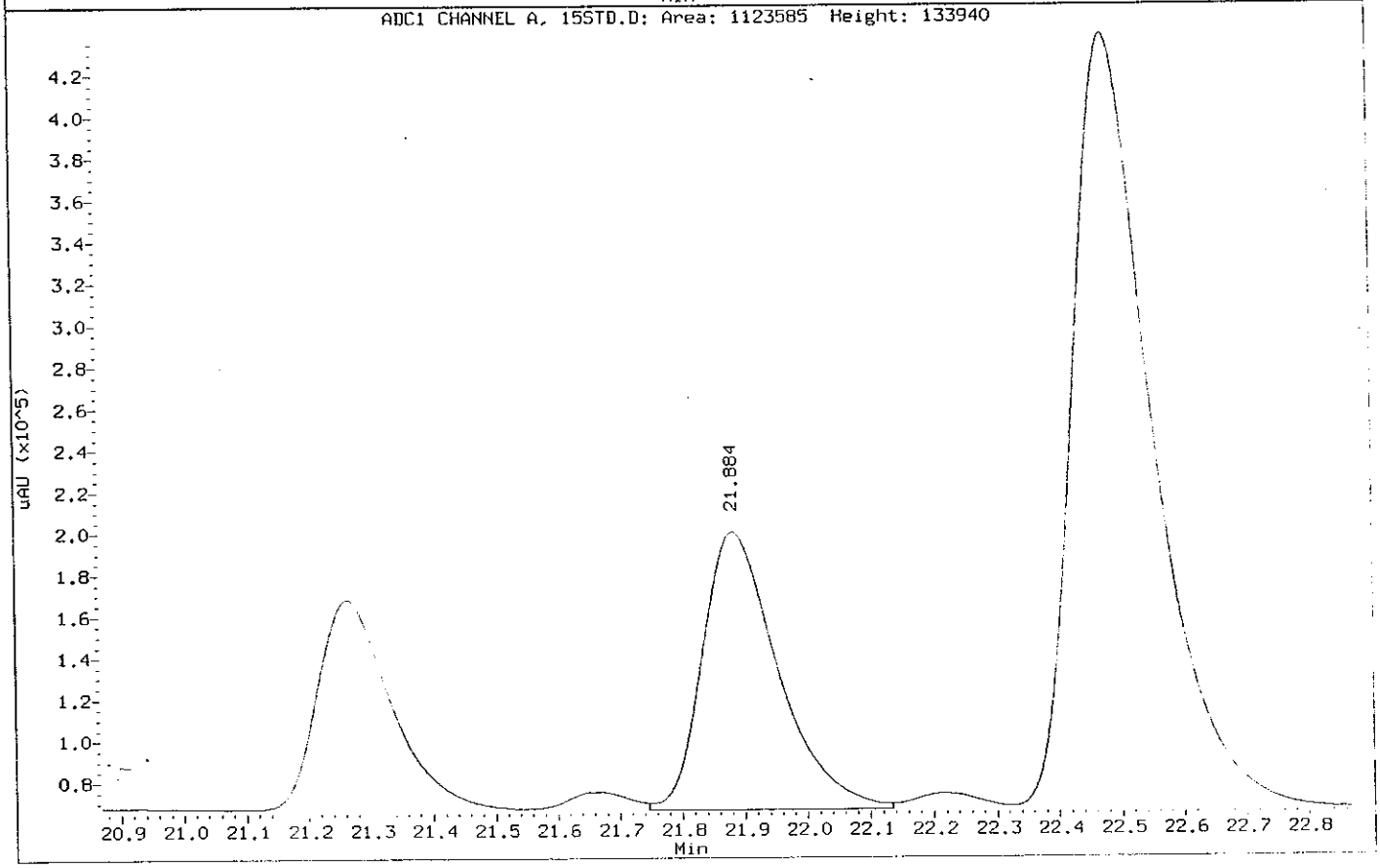
Injection Date: 22-APR-2002 14:23
Instrument: slc02.i
Client Sample ID: 15STD

Compound: Benzo(k)Fluoranthene
CAS Number: 207-08-9





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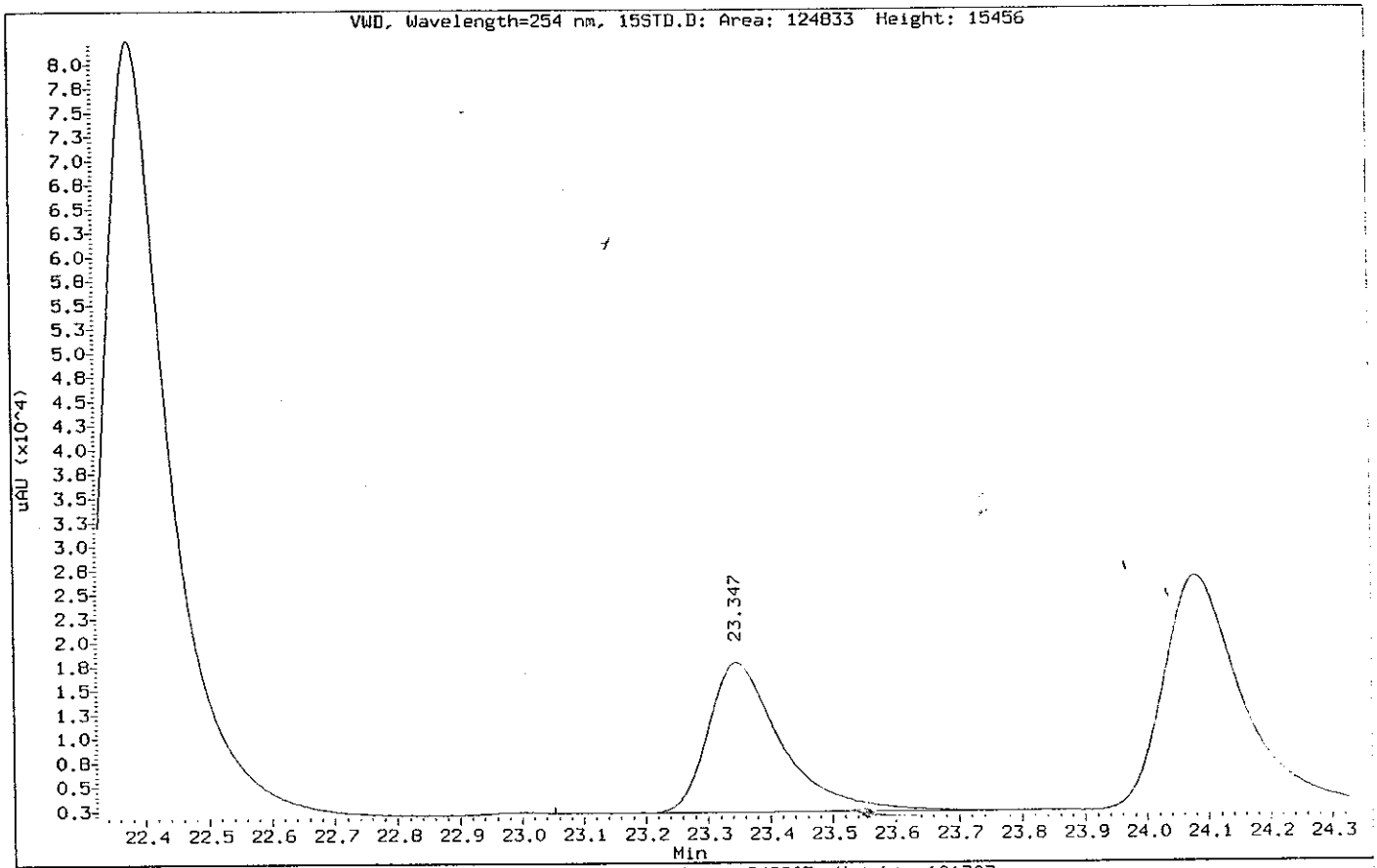
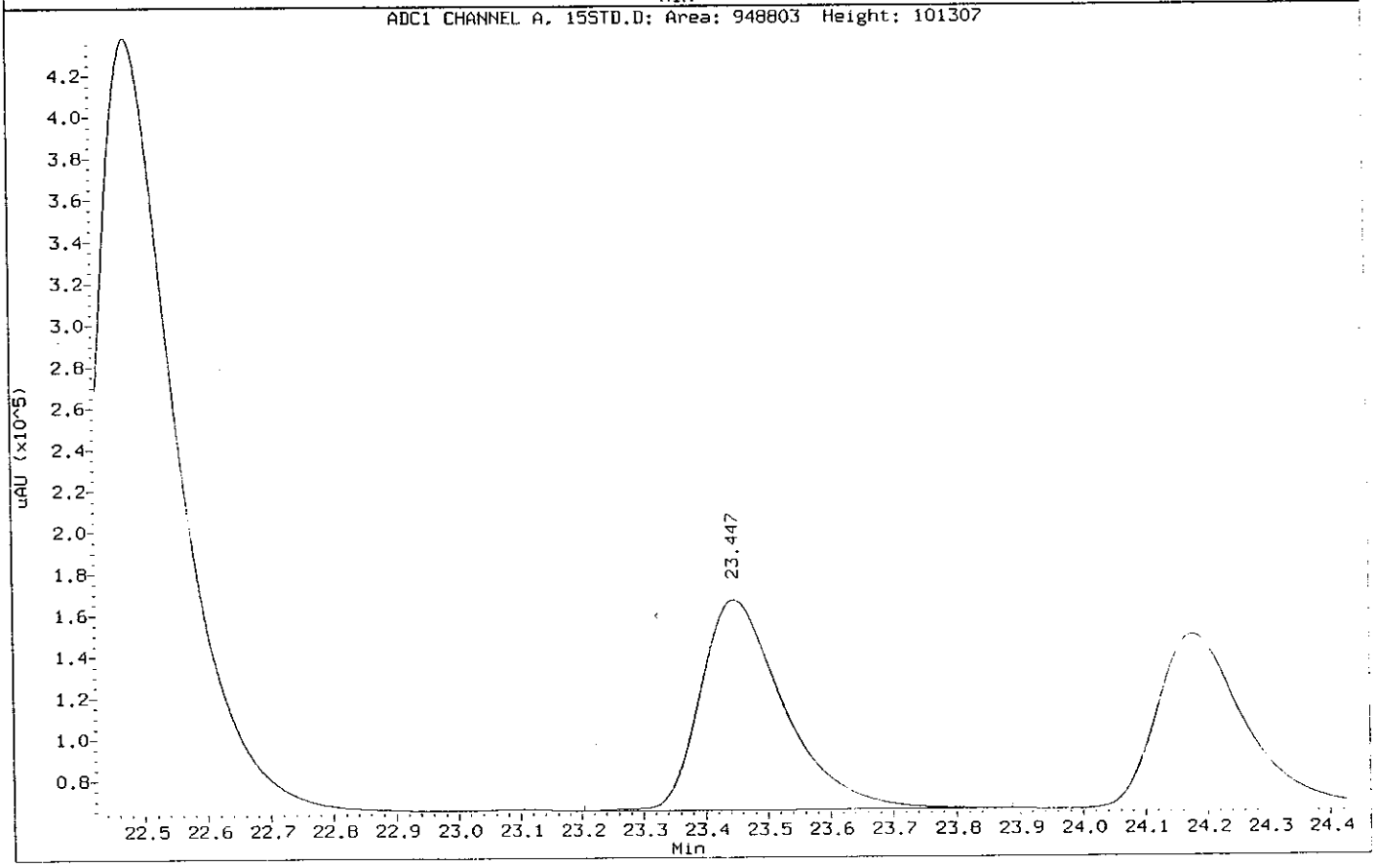
Injection Date: 22-APR-2002 14:23
Instrument: slc02.i
Client Sample ID: 15STD

Compound: Dibenz(ah)Anthracene
CAS Number: 53-70-3





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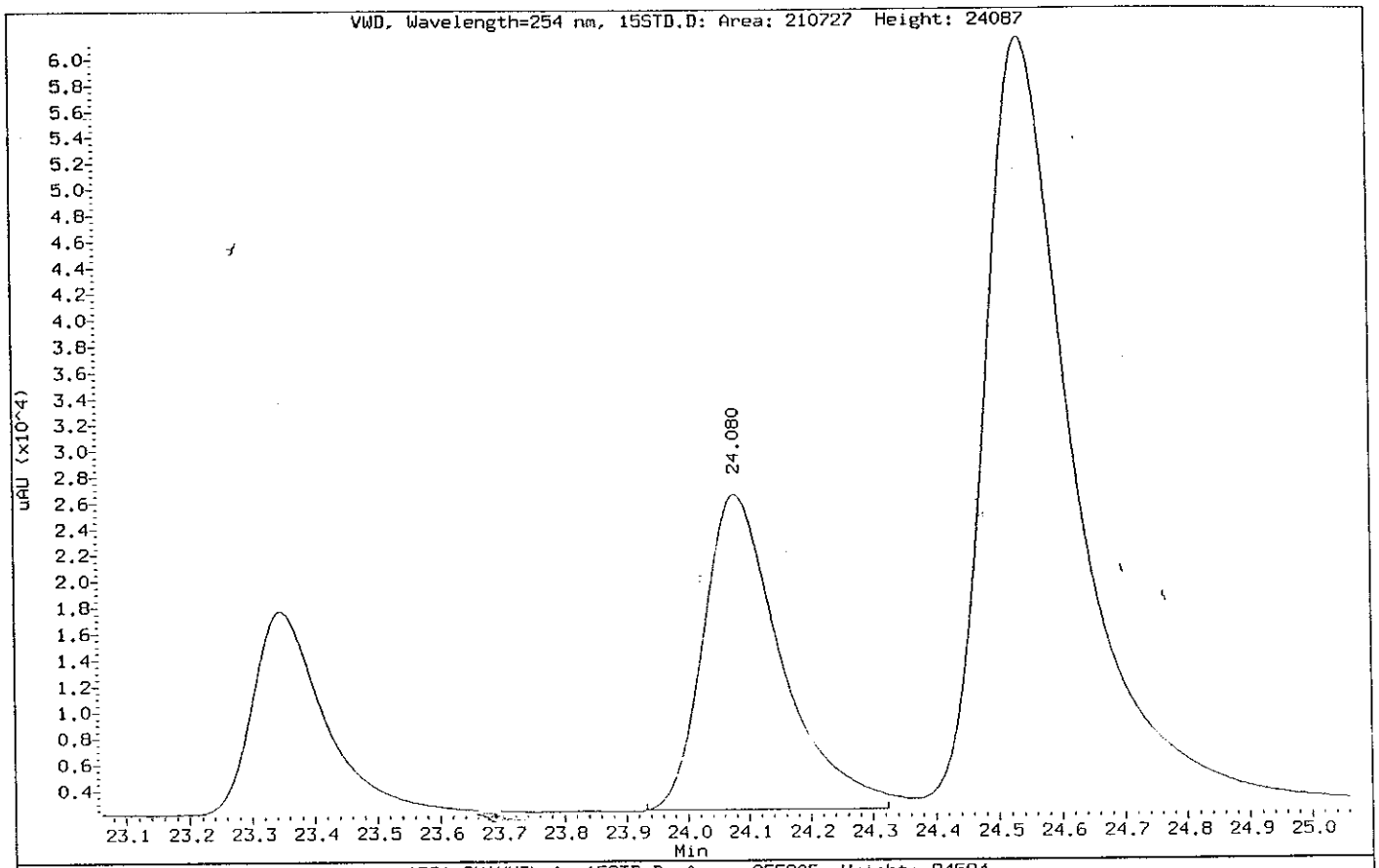
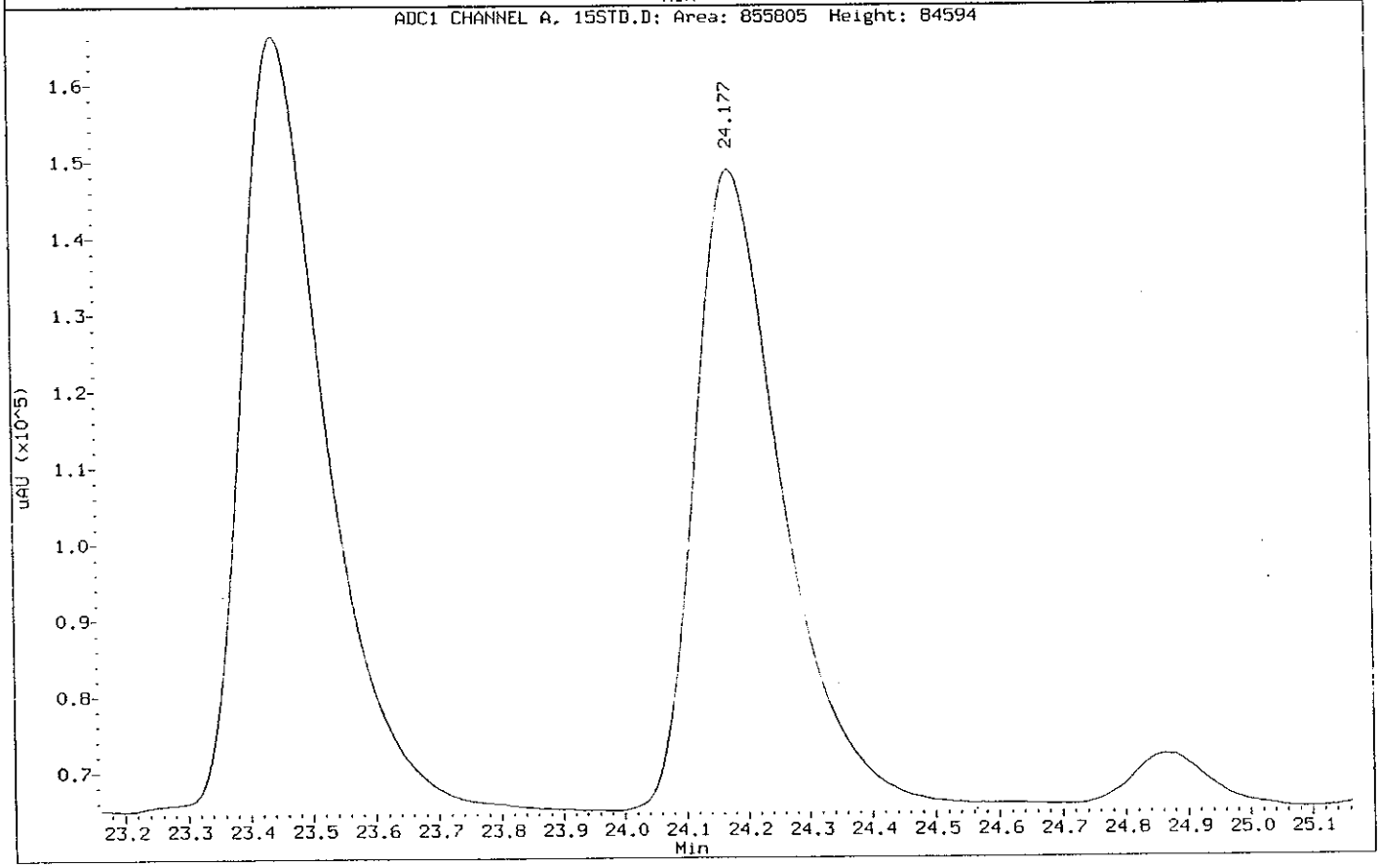
Injection Date: 22-APR-2002 14:23
Instrument: slc02.i
Client Sample ID: 15STD

Compound: Benzo(ghi)Perylene
CAS Number: 191-24-2





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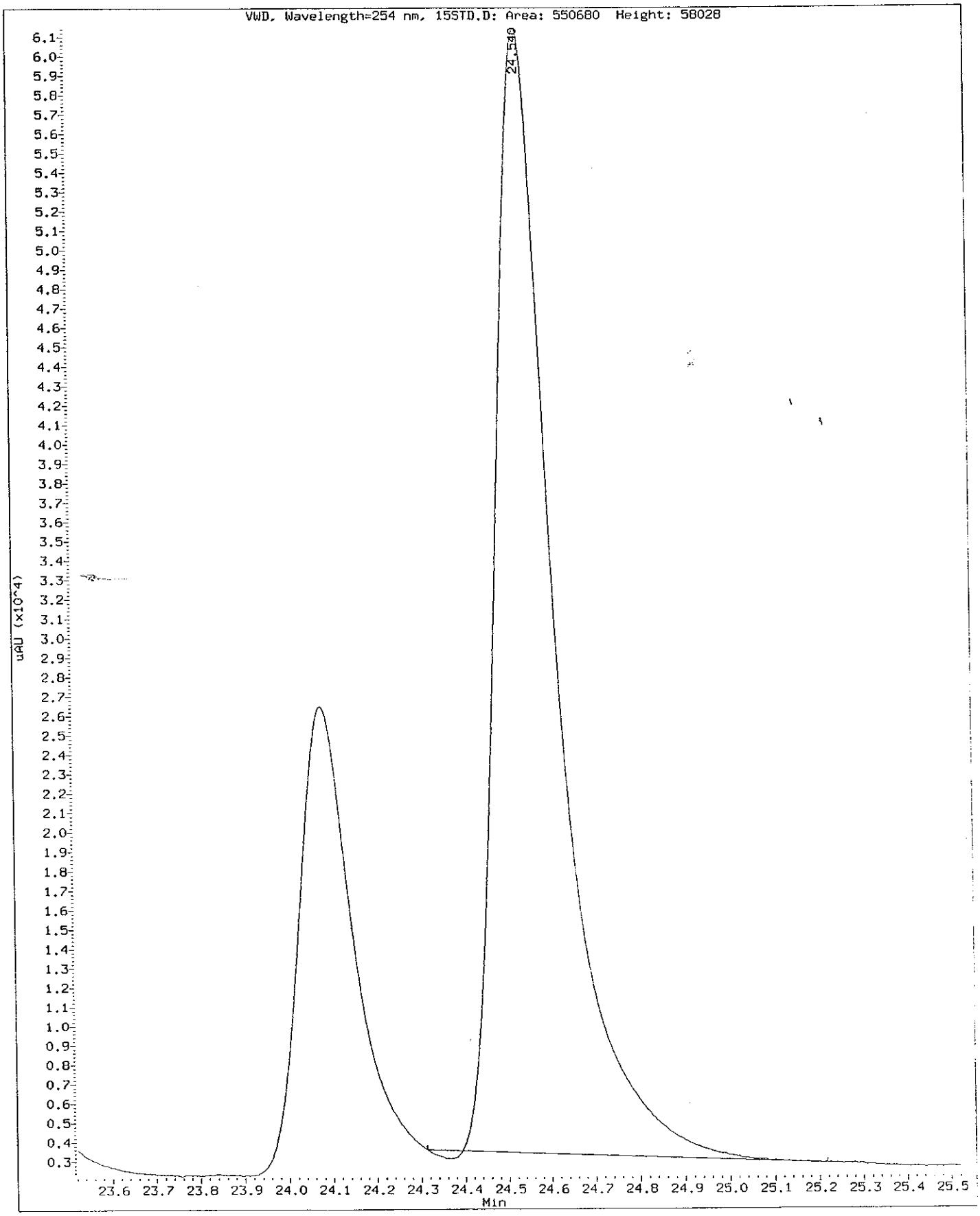
Injection Date: 22-APR-2002 14:23
Instrument: slc02.i
Client Sample ID: 15STD

Compound: Indeno(123cd)Pyrene
CAS Number: 193-39-5



PEL Laboratories, Inc.

Data file : \\SVHPLC\ee\chem\slc02.i\calew423.b\20STD.D
Lab Smp Id: SV4683 Client Smp ID: 20STD
Inj Date : 22-APR-2002 14:58
Operator : dent Inst ID: slc02.i
Smp Info : SV4683
Misc Info :
Comment :
Method : \\SVHPLC\ee\chem\slc02.i\calew423.b\8310AE.m
Meth Date : 17-May-2002 13:23 tscott Quant Type: ESTD
Cal Date : 22-APR-2002 15:32 Cal File: 30STD.D
Als bottle: 6 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.04 Sample Matrix: WATER
Processing Host: SVHPLC

Concentration Formula: Amt * DF * 1/(Vo/1000)*Vt

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume Extracted
Vt	1.000	

					AMOUNTS CAL-AMT	AMOUNTS ON-COL		
RT	EXP RT	DLT RT	SIGNAL	RESPONSE	(ug/ml)	(ug/ml)	TARGET RANGE	RATIO
2 Naphthalene						CAS #: 91-20-3		
11.786	11.786	(0.000)	VWD1A	102184	20.0000	19.6	80.00- 120.00	100.00 (M)
11.874	11.874	(0.000)	ADC1A	280413			219.54- 329.30	274.42
3 Acenaphthylene						CAS #: 208-96-8		
13.006	13.006	(0.000)	VWD1A	77046	20.0000	19.6		(H)
4 1-Methyl naphthalene						CAS #: 90-12-0		
13.633	13.633	(0.000)	VWD1A	62161			80.00- 120.00	100.00
13.724	13.724	(0.000)	ADC1A	346504	20.0000	19.5	445.94- 668.92	557.43
5 2-Methyl naphthalene						CAS #: 91-57-6		
13.966	13.966	(0.000)	VWD1A	86231	20.0000	19.7	80.00- 120.00	100.00
14.059	14.059	(0.000)	ADC1A	506925			470.29- 705.44	587.87

RT	EXP RT	DLT RT	SIGNAL	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
6 Acenaphthene							CAS #: 83-32-9	
14.300	14.300	(0.000)	VWD1A	38308			80.00- 120.00	100.00
14.391	14.391	(0.000)	ADC1A	452897	20.0000	19.5	945.80-1418.70	1182.25
7 Fluorene							CAS #: 86-73-7	
14.660	14.660	(0.000)	VWD1A	466784	20.0000	19.7		
8 Phenanthrene							CAS #: 85-01-8	
15.466	15.466	(0.000)	VWD1A	1267791			80.00- 120.00	100.00(M)
15.557	15.557	(0.000)	ADC1A	11151576	20.0000	19.8	703.69-1055.53	879.61
9 Anthracene							CAS #: 120-12-7	
16.190	16.190	(0.000)	VWD1A	2866621	20.0000	20.1	80.00- 120.00	100.00
16.322	16.322	(0.000)	ADC1A	21652421			604.26- 906.39	755.33
10 Fluoranthene							CAS #: 206-44-0	
17.020	17.020	(0.000)	VWD1A	308521	20.0000	19.6		
11 Pyrene							CAS #: 129-00-0	
17.563	17.563	(0.000)	VWD1A	273392	20.0000	19.6	80.00- 120.00	100.00
17.656	17.656	(0.000)	ADC1A	17536420			5131.51-7697.26	6414.39
$ 12 p-Terphenyl-d14 (SURR)							CAS #: 1718-51-0	
18.550	18.550	(0.000)	VWD1A	274831	20.0000	19.7	80.00- 120.00	100.00
18.644	18.644	(0.000)	ADC1A	13412123			3904.11-5856.16	4880.13
13 Benzo(a)Anthracene							CAS #: 56-55-3	
19.350	19.350	(0.000)	VWD1A	723082	20.0000	19.6	80.00- 120.00	100.00(M)
19.447	19.447	(0.000)	ADC1A	12494274			1382.34-2073.50	1727.92
14 Chrysene							CAS #: 218-01-9	
19.743	19.743	(0.000)	VWD1A	1014725	20.0000	19.6	80.00- 120.00	100.00
19.889	19.889	(0.000)	ADC1A	22927298			1807.57-2711.35	2259.46
15 Benzo(b)Fluoranthene							CAS #: 205-99-2	
21.156	21.156	(0.000)	VWD1A	802201	20.0000	19.7	80.00- 120.00	100.00(M)
21.254	21.254	(0.000)	ADC1A	1064598			106.17- 159.25	132.71
16 Benzo(k)Fluoranthene							CAS #: 207-08-9	
21.773	21.773	(0.000)	VWD1A	606895	20.0000	19.7	80.00- 120.00	100.00(M)
21.871	21.871	(0.000)	ADC1A	1410353			185.91- 278.87	232.39
17 Benzo(a)pyrene							CAS #: 50-32-8	
22.370	22.370	(0.000)	VWD1A	748239			80.00- 120.00	100.00
22.467	22.467	(0.000)	ADC1A	4247330	20.0000	19.7	454.11- 681.17	567.64

					AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
RT	EXP RT	DLT RT	SIGNAL	RESPONSE				
18 Dibenz(ah)Anthracene						CAS #: 53-70-3		
23.336	23.336	(0.000)	VWD1A	162902	20.0000	19.7	80.00- 120.00	100.00(M)
23.437	23.437	(0.000)	ADC1A	1352317			664.11- 996.17	830.14
19 Benzo(ghi)Perylene						CAS #: 191-24-2		
24.073	24.073	(0.000)	VWD1A	282659	20.0000	19.8	80.00- 120.00	100.00(M)
24.172	24.172	(0.000)	ADC1A	1060459			300.14- 450.21	375.17
20 Indeno(123cd)Pyrene						CAS #: 193-39-5		
24.533	24.533	(0.000)	VWD1A	721762	20.0000	19.6		

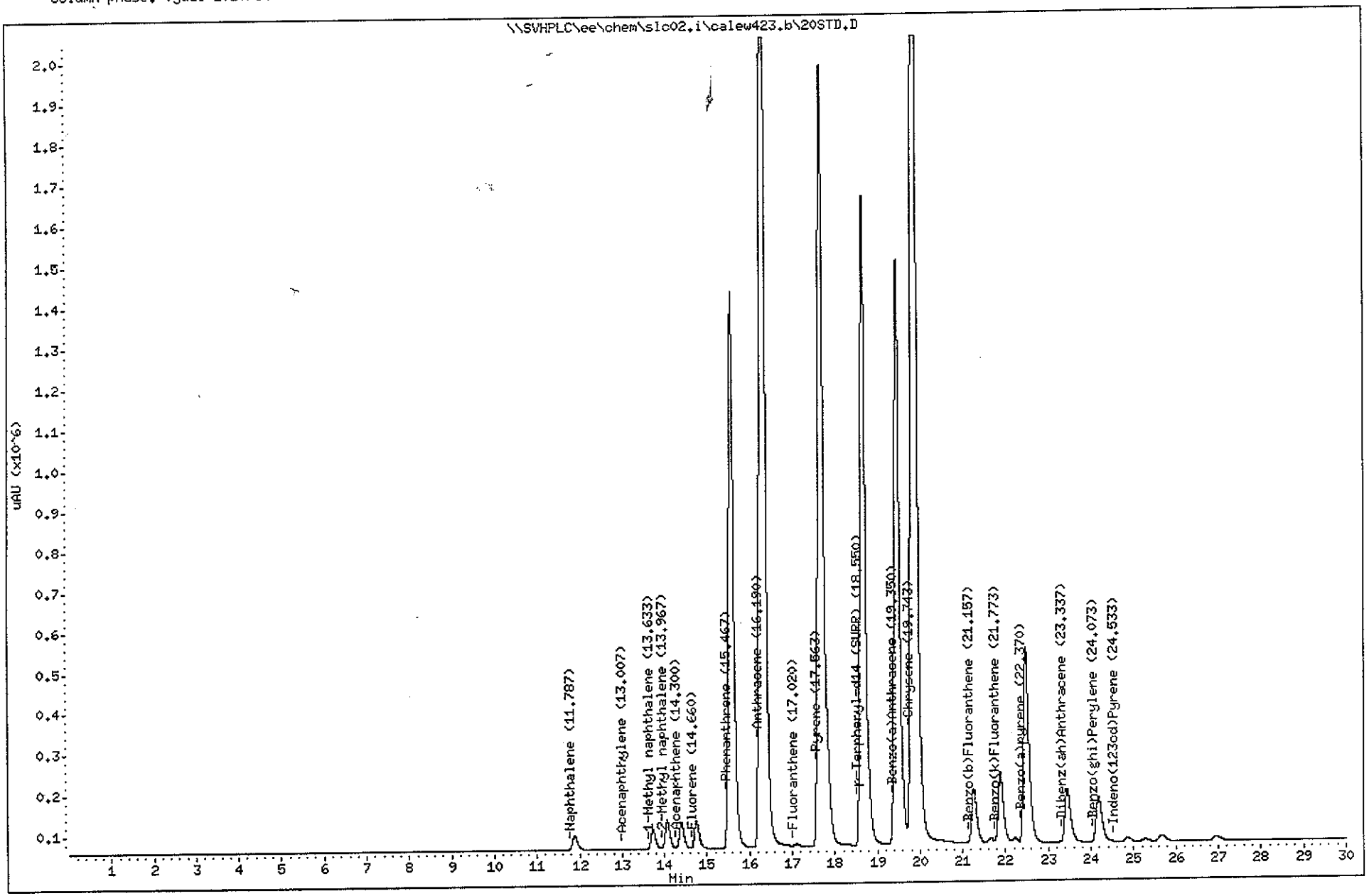
QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\SVHPLC\ee\chem\slc02.i\calew423.b\20STD.D
Date : 22-APR-2002 14:58
Client ID: 20STD
Sample Info: SV4683
Purge Volume: 1000.0
Column phase: Vydac 201TP54

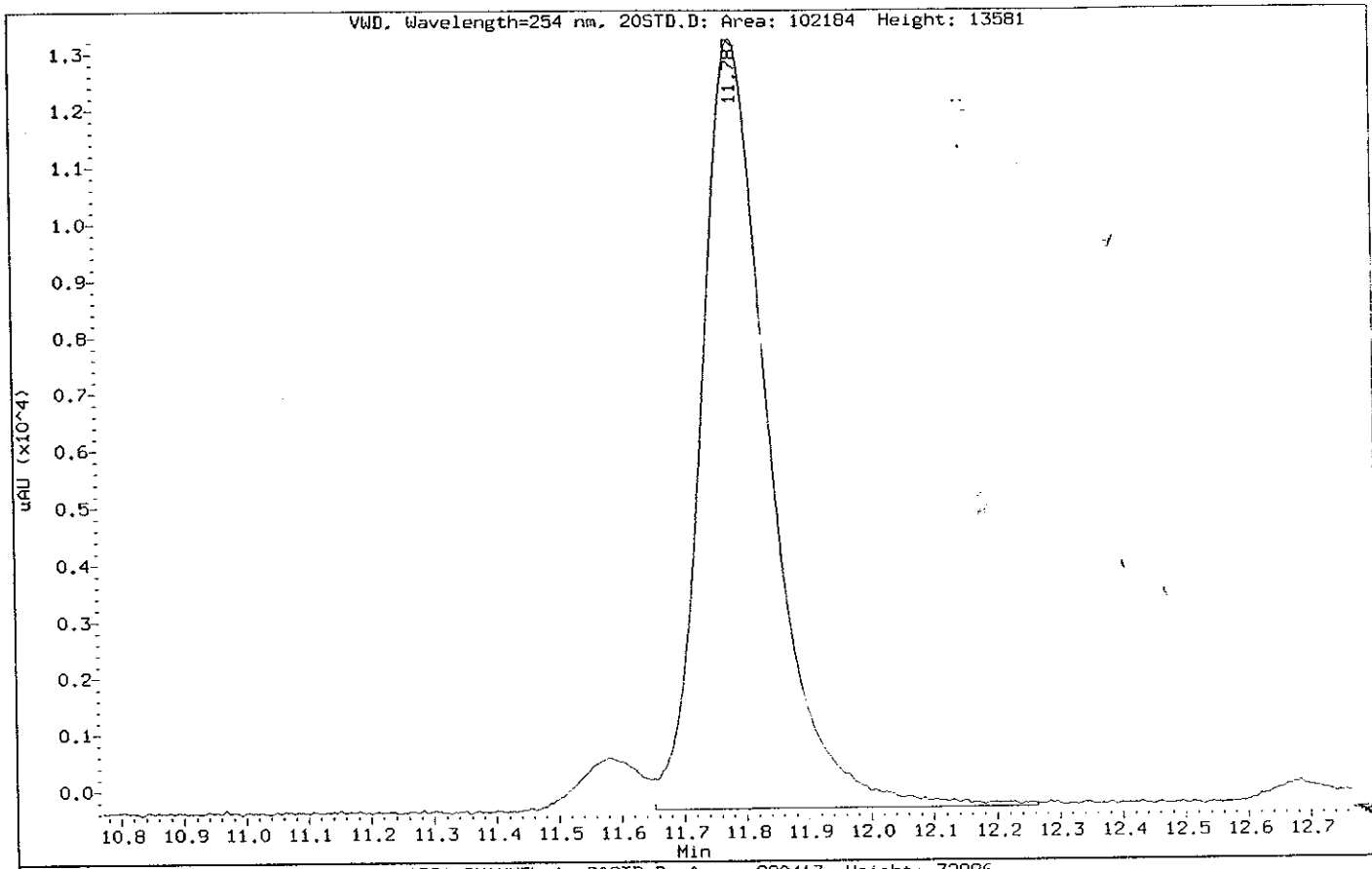
Instrument: slc02.i

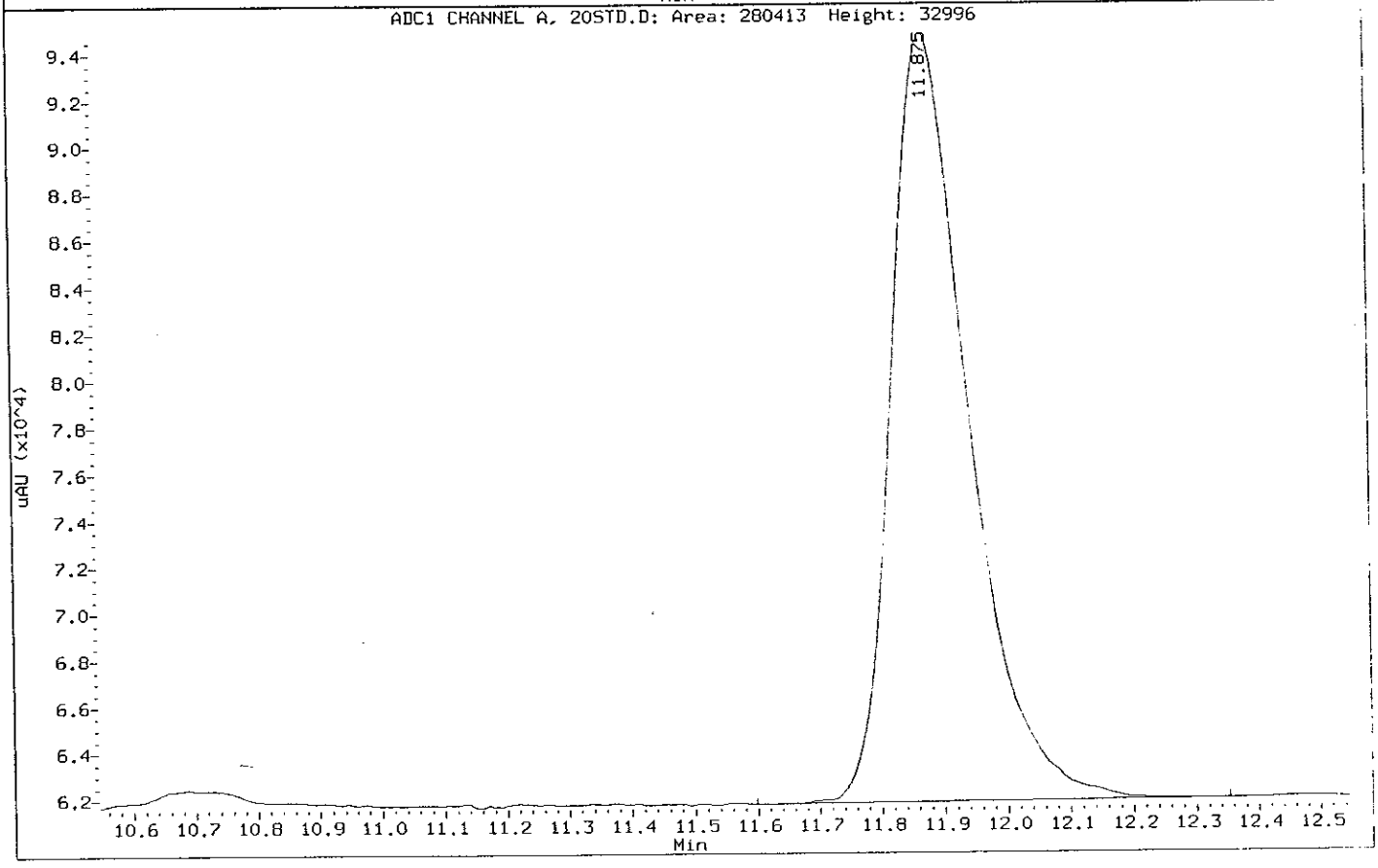
Operator: dent
Column diameter: 4.60



Data File: \\SVHPLC\ee\chem\slc02.i\calew423.b\20STD.D
Injection Date: 22-APR-2002 14:58
Instrument: slc02.i
Client Sample ID: 20STD

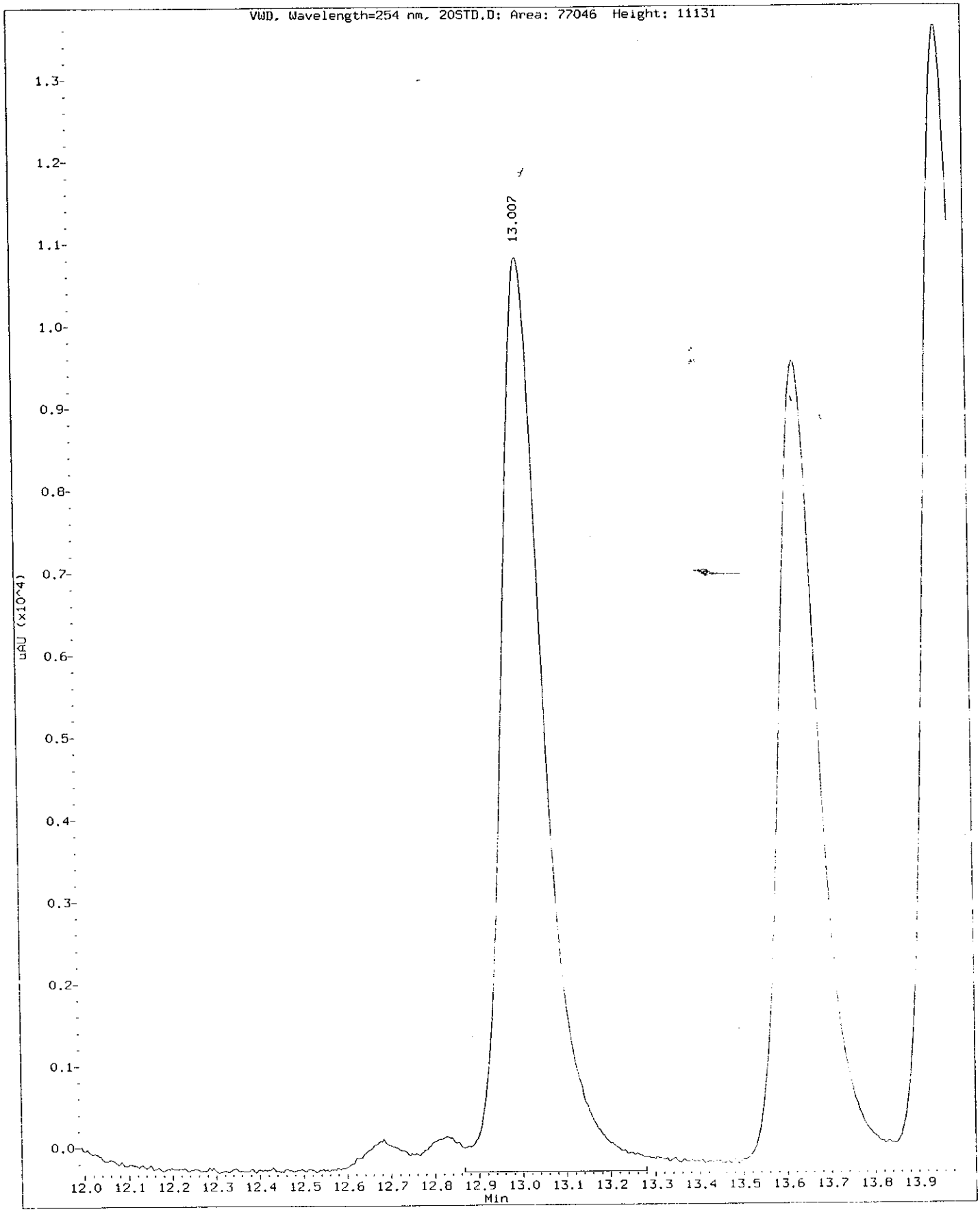
Compound: Naphthalene
CAS Number: 91-20-3





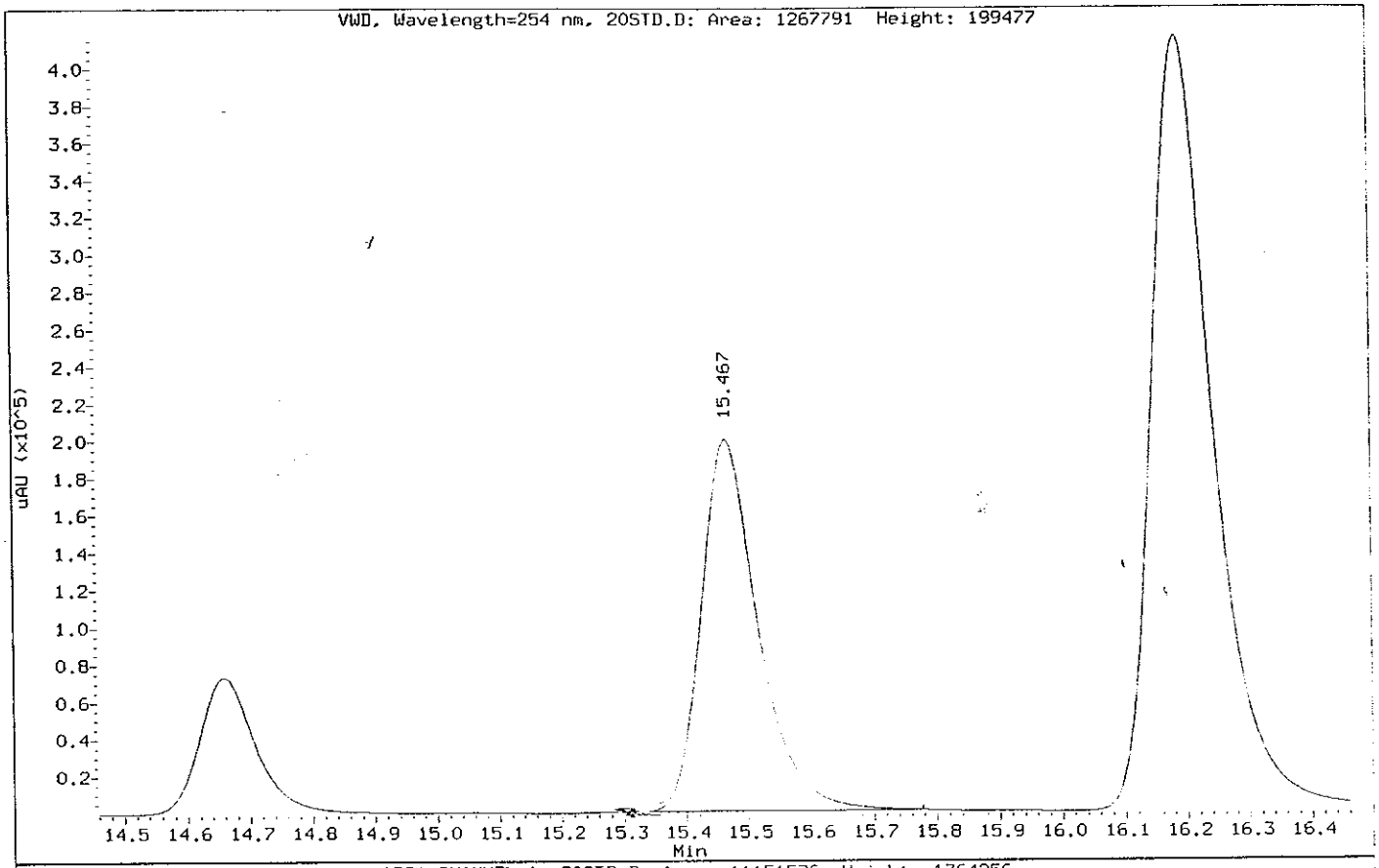
Data File: \\SVHPLC\ee\chem\slc02.i\calew423.b\20STD.D
Injection Date: 22-APR-2002 14:58
Instrument: slc02.i
Client Sample ID: 20STD

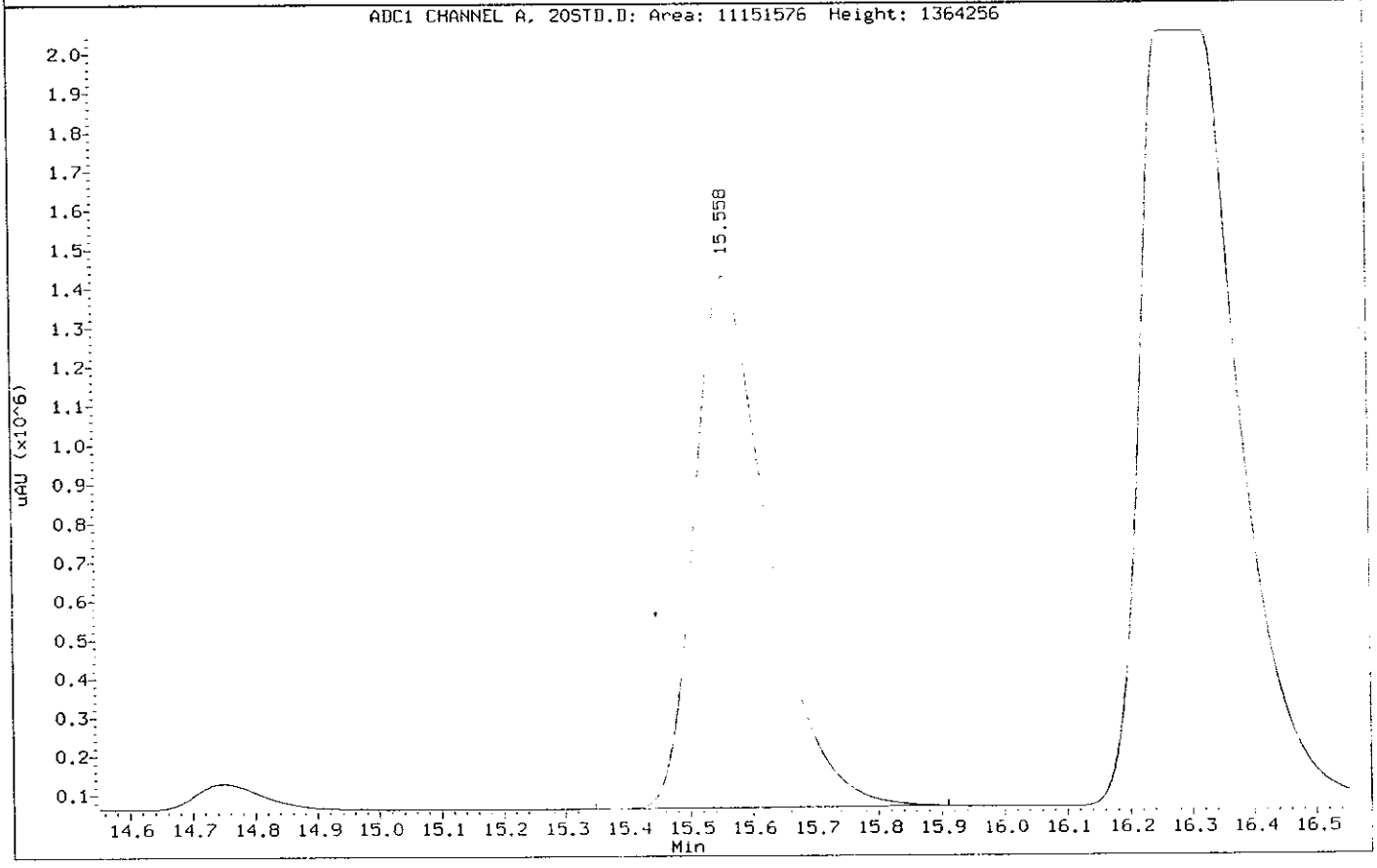
Compound: Acenaphthylene
CAS Number: 208-96-8



Data File: \\SVHPLC\ee\chem\slc02.i\calew423.b\20STD.D
Injection Date: 22-APR-2002 14:58
Instrument: slc02.i
Client Sample ID: 20STD

Compound: Phenanthrene
CAS Number: 85-01-8





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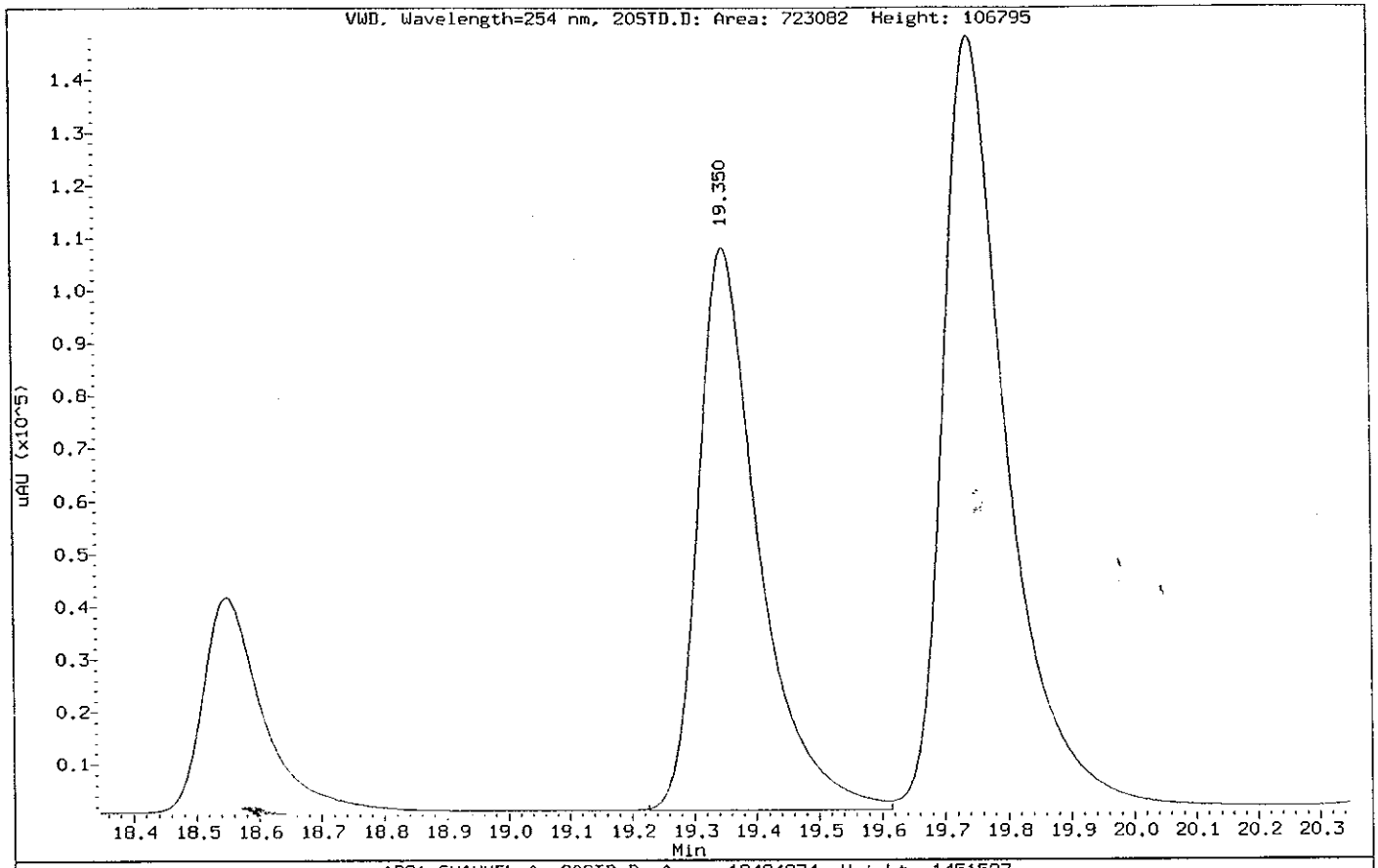
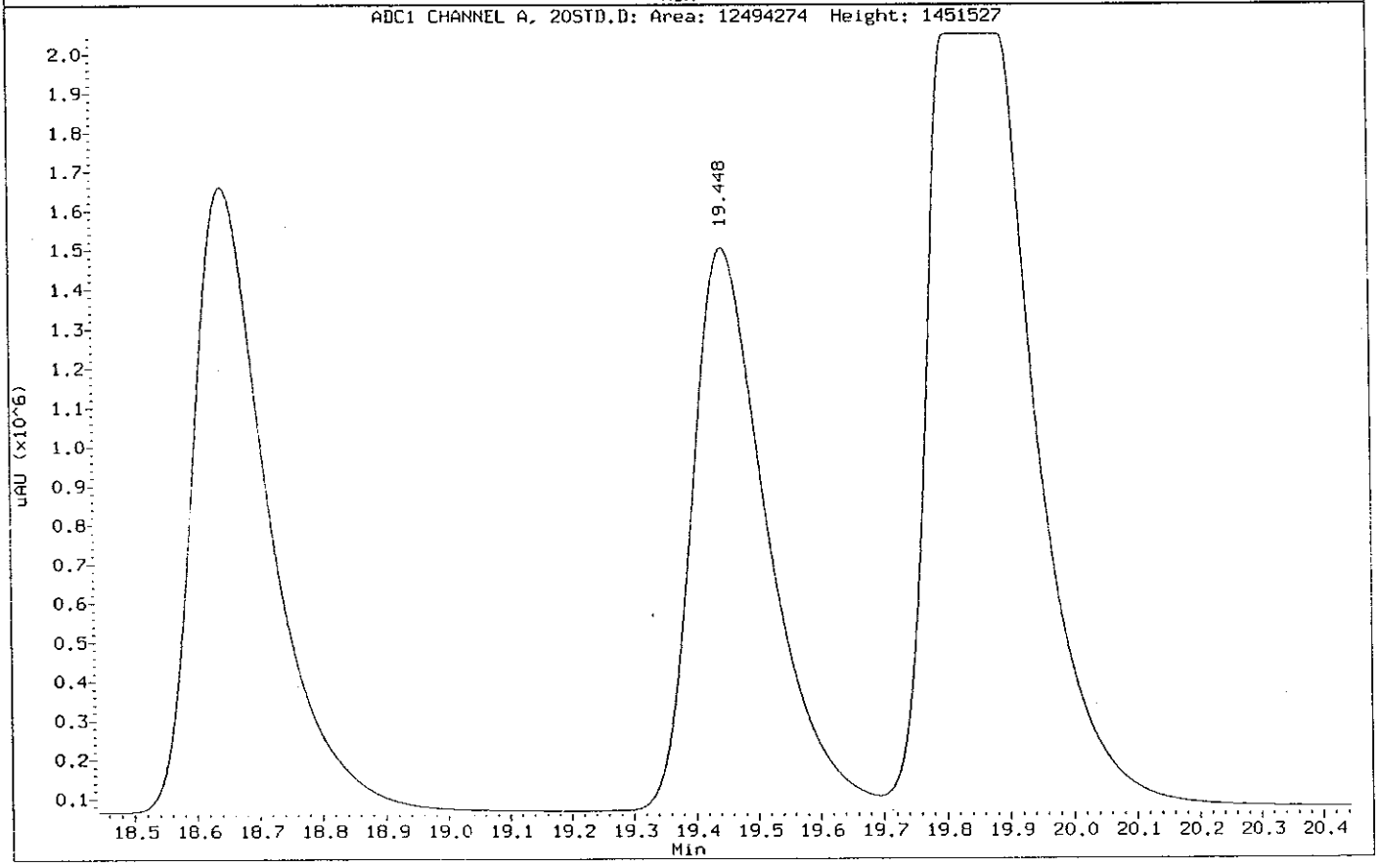
Injection Date: 22-APR-2002 14:58
Instrument: slc02.i
Client Sample ID: 20STD

Compound: Benzo(a)Anthracene
CAS Number: 56-55-3





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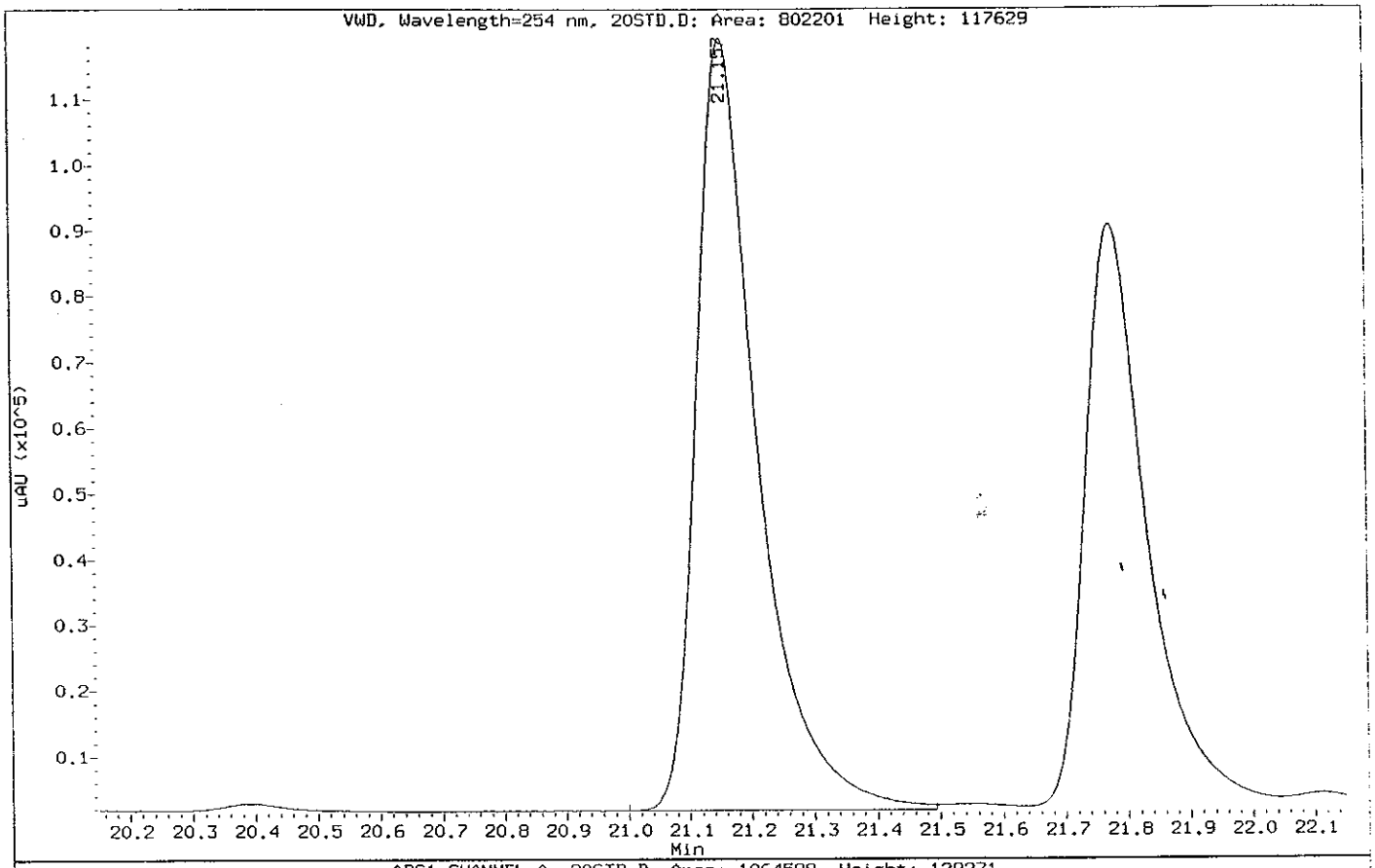
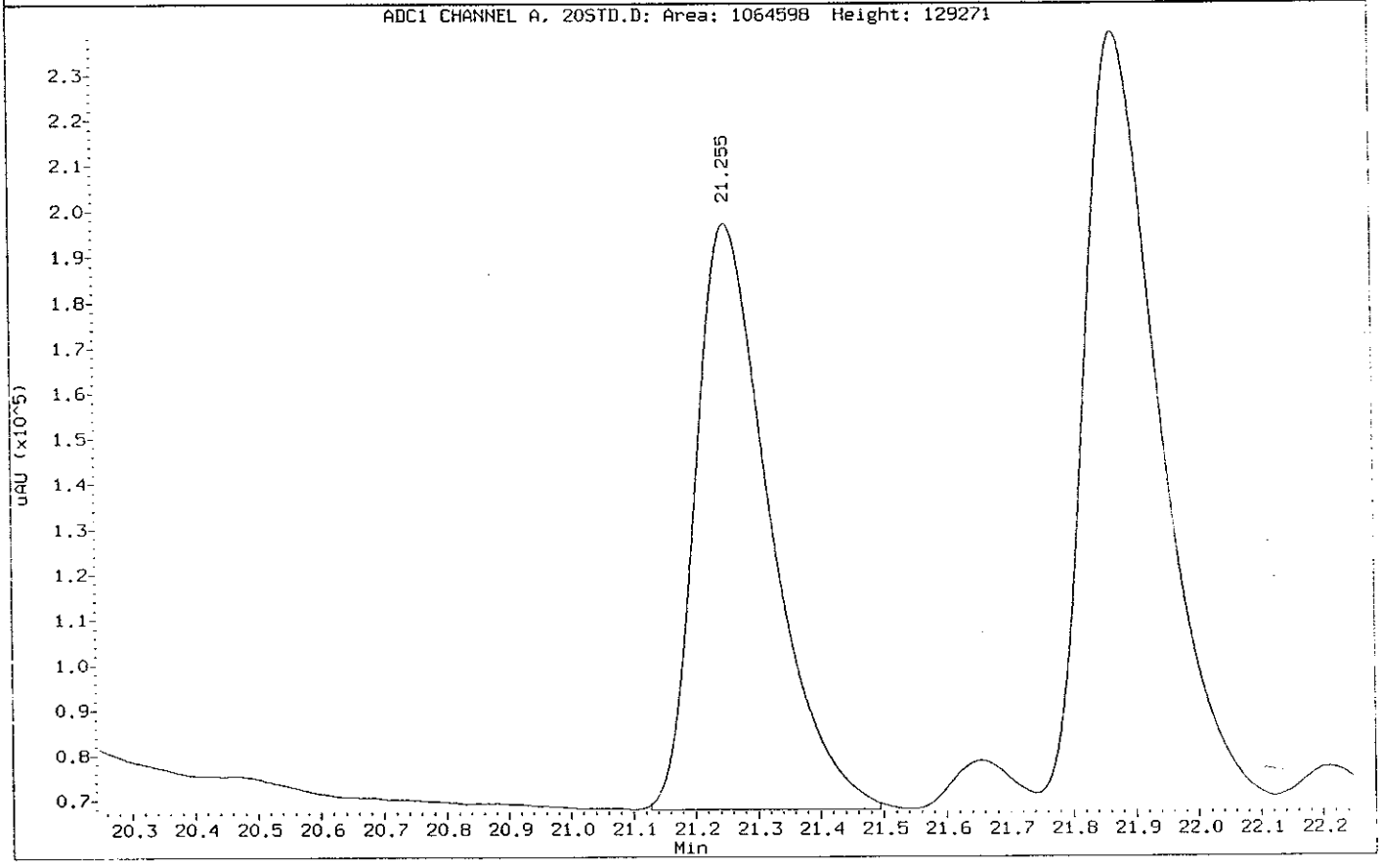
Injection Date: 22-APR-2002 14:58
Instrument: slc02.i
Client Sample ID: 20STD

Compound: Benzo(b)Fluoranthene
CAS Number: 205-99-2





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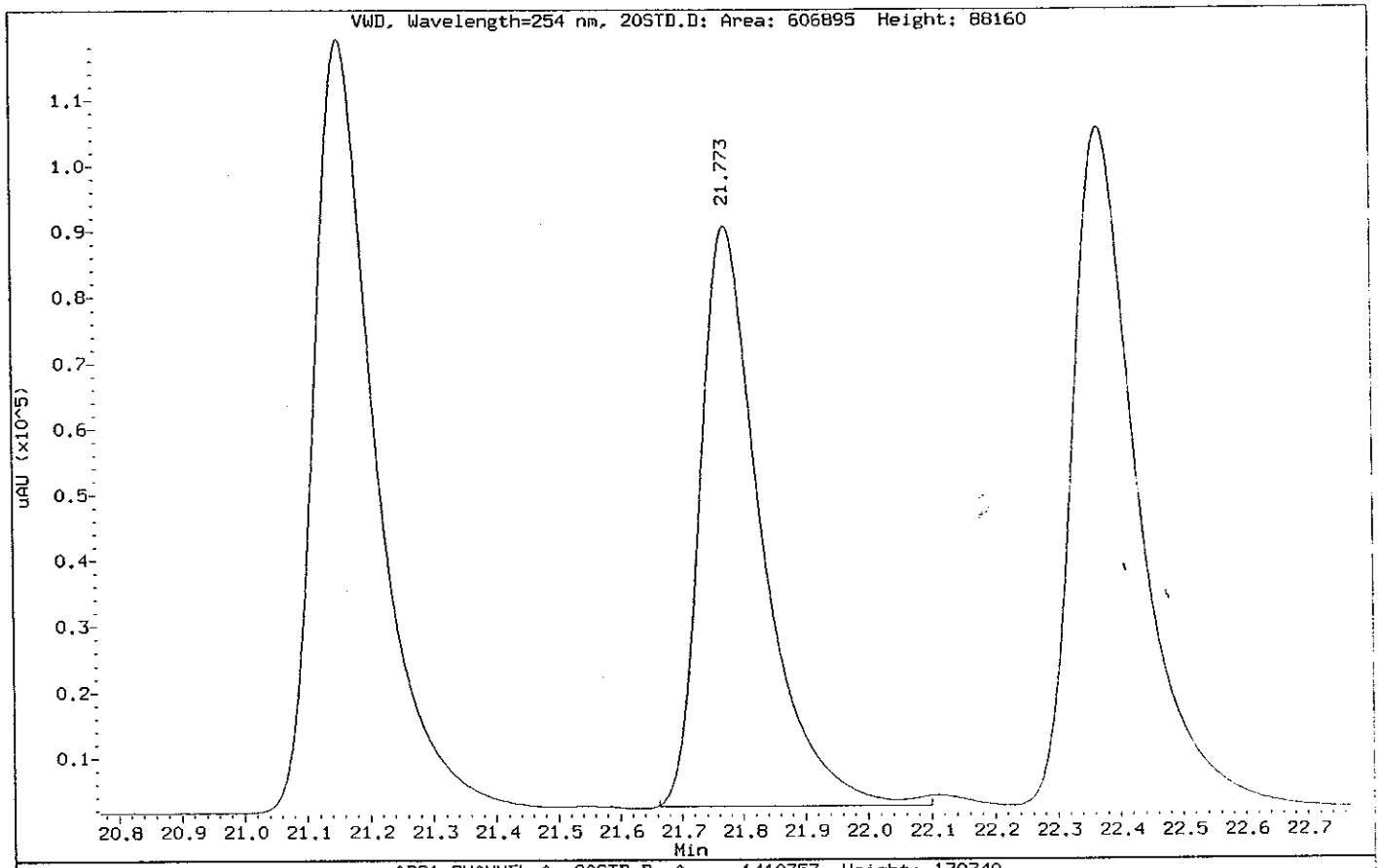
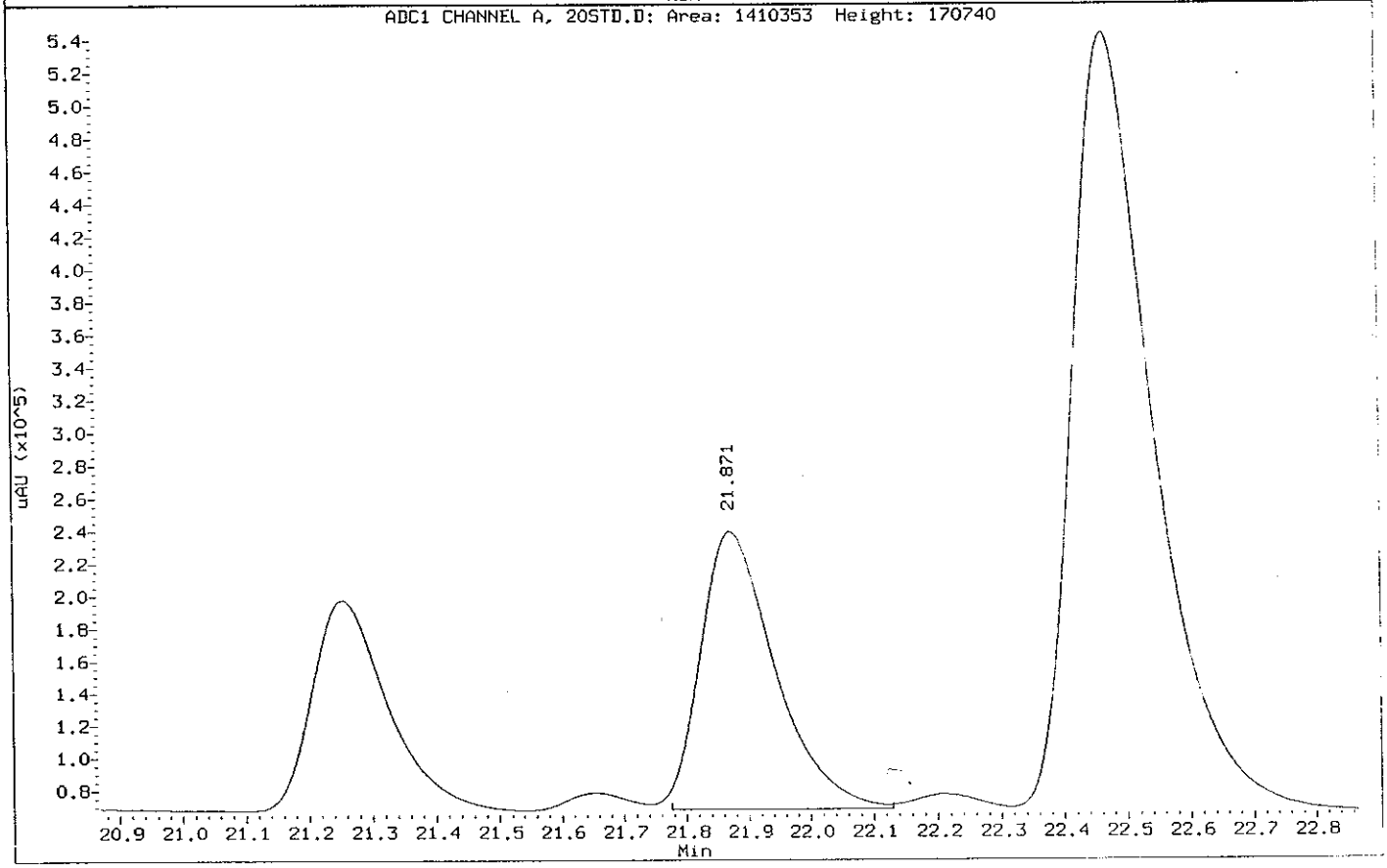
Injection Date: 22-APR-2002 14:58
Instrument: slc02.i
Client Sample ID: 20STD

Compound: Benzo(k)Fluoranthene
CAS Number: 207-08-9





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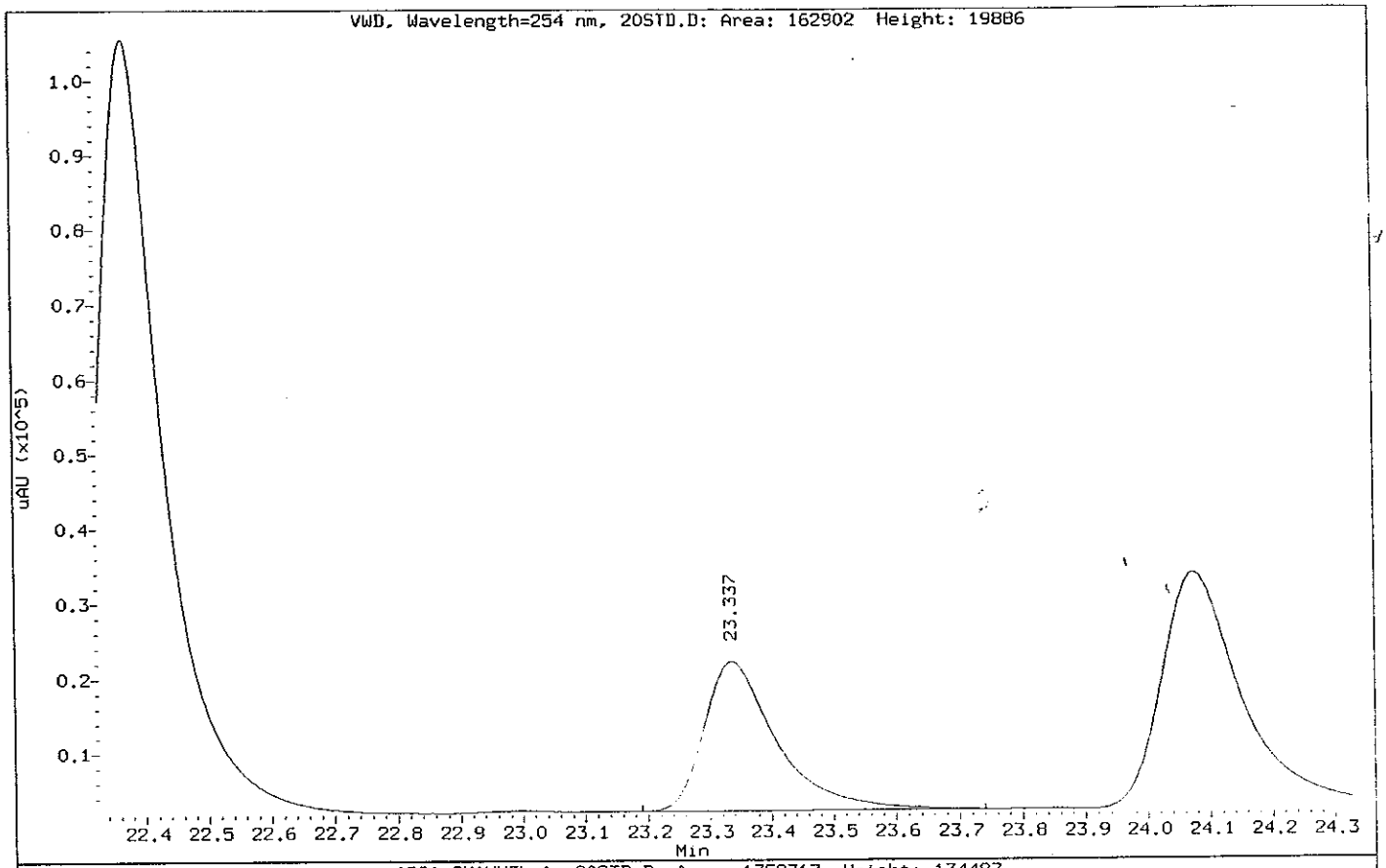
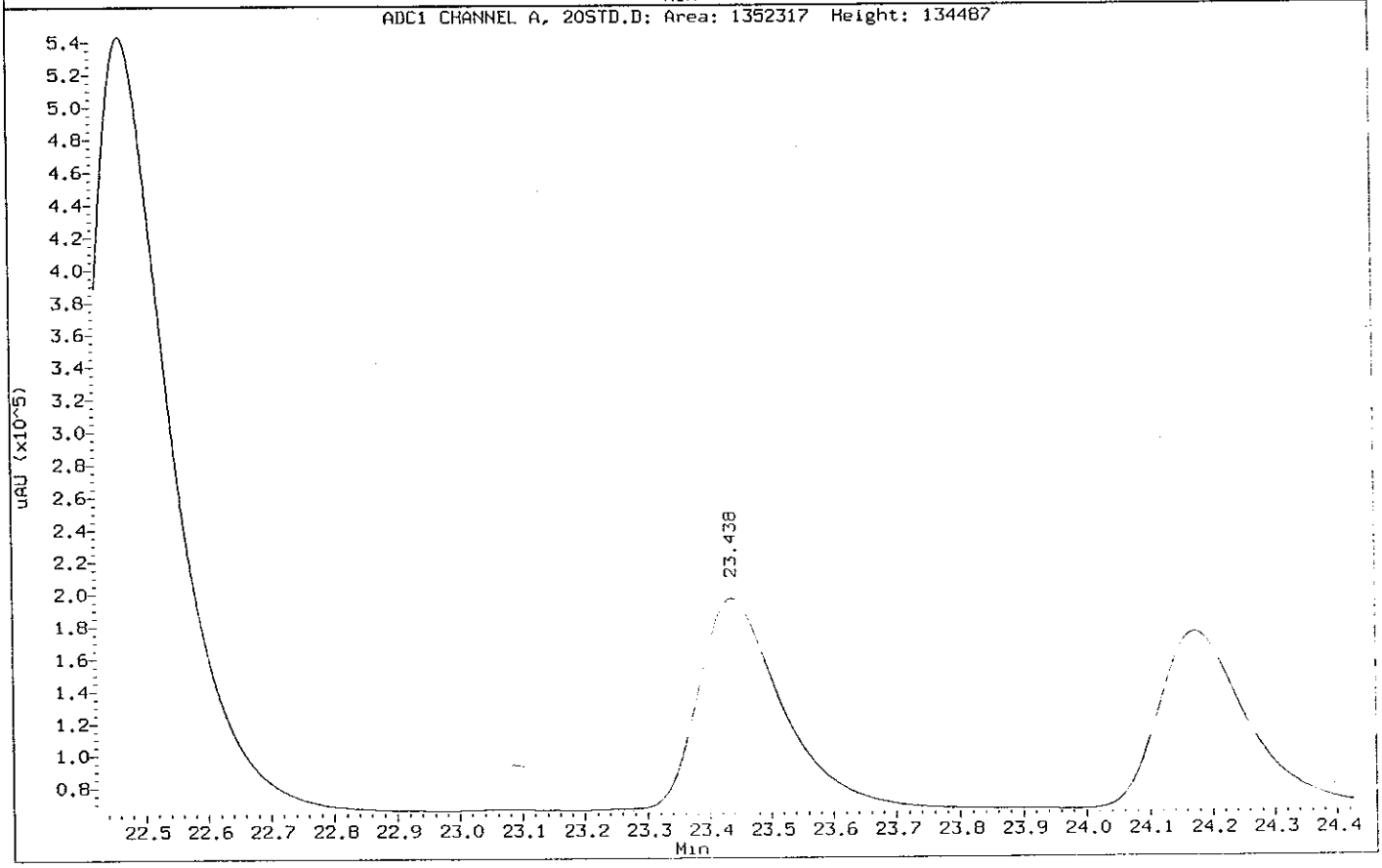
Injection Date: 22-APR-2002 14:58
Instrument: slc02.i
Client Sample ID: 20STD

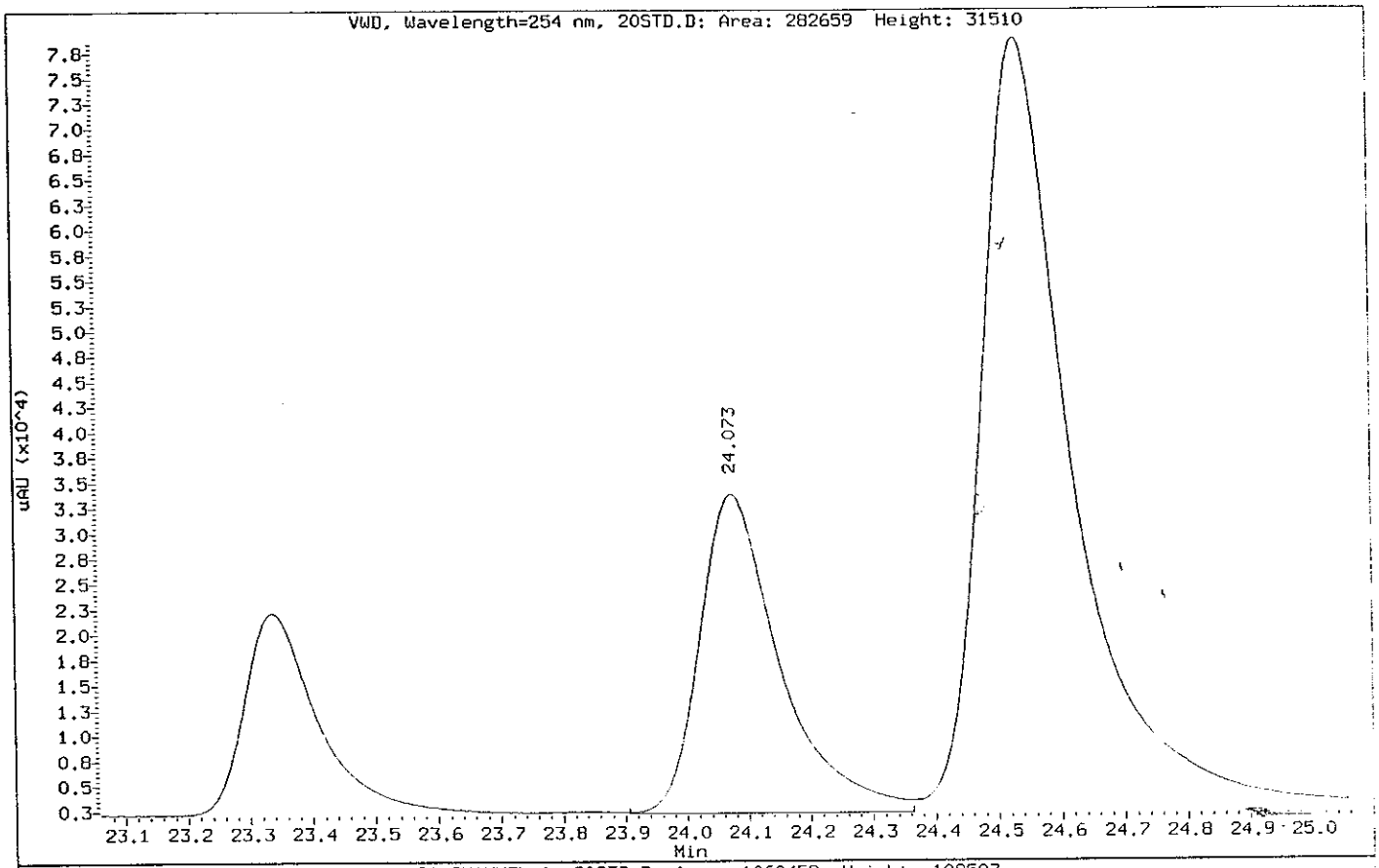
Compound: Dibenz(ah)Anthracene
CAS Number: 53-70-3

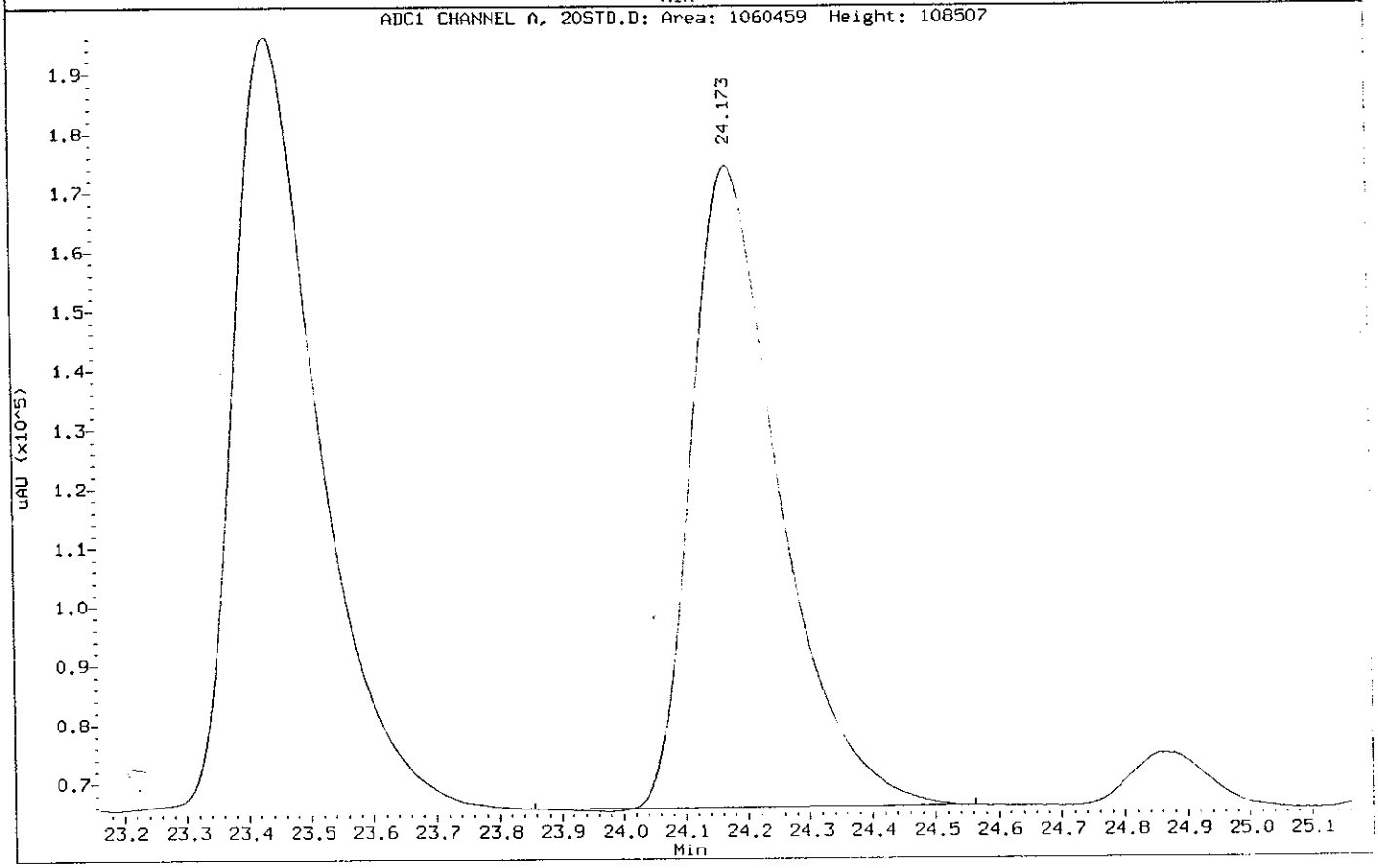




Data File: \\SVHPLC\ee\chem\slc02.i\calew423.b\20STD.D
Injection Date: 22-APR-2002 14:58
Instrument: slc02.i
Client Sample ID: 20STD

Compound: Benzo(ghi)Perylene
CAS Number: 191-24-2





PEL Laboratories, Inc.

Data file : \\SVHPLC\ee\chem\slc02.i\calew423.b\30STD.D
Lab Smp Id: SV4682 Client Smp ID: 30STD
Inj Date : 22-APR-2002 15:32
Operator : dent Inst ID: slc02.i
Smp Info : SV4682
Misc Info :
Comment :
Method : \\Svhplc\ee\chem\slc02.i\calew423.b\8310AE.m
Meth Date : 17-May-2002 13:24 tscott Quant Type: ESTD
Cal Date : 22-APR-2002 15:32 Cal File: 30STD.D
Als bottle: 7 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.04 Sample Matrix: WATER
Processing Host: SVHPLC

Concentration Formula: Amt * DF * 1/(Vo/1000)*Vt

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume Extracted
Vt	1.000	

					AMOUNTS CAL-AMT	AMOUNTS ON-COL		
RT	EXP RT	DLT RT	SIGNAL	RESPONSE	(ug/ml)	(ug/ml)	TARGET RANGE	RATIO
2 Naphthalene						CAS #: 91-20-3		
11.780	11.780	(0.000)	VWD1A	156611	30.0000	30.0	80.00- 120.00	100.00 (M)
11.870	11.870	(0.000)	ADC1A	446221			227.94- 341.91	284.92
3 Acenaphthylene						CAS #: 208-96-8		
13.000	13.000	(0.000)	VWD1A	117464	30.0000	29.9		(H)
4 1-Methyl naphthalene						CAS #: 90-12-0		
13.630	13.630	(0.000)	VWD1A	94192			80.00- 120.00	100.00
13.718	13.718	(0.000)	ADC1A	547042	30.0000	30.8	464.62- 696.93	580.77
5 2-Methyl naphthalene						CAS #: 91-57-6		
13.963	13.963	(0.000)	VWD1A	131179	30.0000	29.9	80.00- 120.00	100.00
14.052	14.052	(0.000)	ADC1A	795203			484.96- 727.44	606.20

RT	EXP RT	DLT RT	SIGNAL	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
6 Acenaphthene							CAS #: 83-32-9	
14.296	14.296	(0.000)	VWD1A	58052			80.00- 120.00	100.00
14.388	14.388	(0.000)	ADC1A	714863	30.0000	30.8	985.13-1477.70	1231.42
7 Fluorene							CAS #: 86-73-7	
14.653	14.653	(0.000)	VWD1A	708771	30.0000	30.0		
8 Phenanthrene							CAS #: 85-01-8	
15.460	15.460	(0.000)	VWD1A	1920614			80.00- 120.00	100.00(M)
15.553	15.553	(0.000)	ADC1A	16800236	30.0000	29.8	699.79-1049.68	874.73
9 Anthracene							CAS #: 120-12-7	
16.186	16.186	(0.000)	VWD1A	4142304	30.0000	29.0	80.00- 120.00	100.00
16.347	16.347	(0.000)	ADC1A	25822316			498.70- 748.06	623.38
10 Fluoranthene							CAS #: 206-44-0	
17.016	17.016	(0.000)	VWD1A	471532	30.0000	30.0		
11 Pyrene							CAS #: 129-00-0	
17.560	17.560	(0.000)	VWD1A	419255	30.0000	30.1	80.00- 120.00	100.00
17.692	17.692	(0.000)	ADC1A	23406084			4466.22-6699.34	5582.78
$ 12 p-Terphenyl-d14 (SURR)							CAS #: 1718-51-0	
18.546	18.546	(0.000)	VWD1A	419243	30.0000	30.0	80.00- 120.00	100.00
18.662	18.662	(0.000)	ADC1A	19351244			3692.61-5538.91	4615.76
13 Benzo(a)Anthracene							CAS #: 56-55-3	
19.350	19.350	(0.000)	VWD1A	1111162	30.0000	30.1	80.00- 120.00	100.00(M)
19.453	19.453	(0.000)	ADC1A	18046779			1299.31-1948.96	1624.14
14 Chrysene							CAS #: 218-01-9	
19.740	19.740	(0.000)	VWD1A	1547654	30.0000	30.0	80.00- 120.00	100.00
19.910	19.910	(0.000)	ADC1A	26847205			1387.76-2081.64	1734.70
15 Benzo(b)Fluoranthene							CAS #: 205-99-2	
21.153	21.153	(0.000)	VWD1A	1226068	30.0000	30.0	80.00- 120.00	100.00(M)
21.250	21.250	(0.000)	ADC1A	1631084			106.43- 159.64	133.03
16 Benzo(k)Fluoranthene							CAS #: 207-08-9	
21.766	21.766	(0.000)	VWD1A	917288	30.0000	29.7	80.00- 120.00	100.00
21.863	21.863	(0.000)	ADC1A	2135679			186.26- 279.39	232.83
17 Benzo(a)pyrene							CAS #: 50-32-8	
22.363	22.363	(0.000)	VWD1A	1144564			80.00- 120.00	100.00
22.462	22.462	(0.000)	ADC1A	6460387	30.0000	30.0	451.55- 677.33	564.44

					AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
RT	EXP RT	DLT RT	SIGNAL	RESPONSE					
18 Dibenz(ah)Anthracene						CAS #: 53-70-3			
23.323	23.323	(0.000)	VWD1A	250593	30.0000	30.3	80.00- 120.00	100.00	(M)
23.422	23.422	(0.000)	ADC1A	1927469			615.33- 923.00	769.16	
19 Benzo(ghi)Perylene						CAS #: 191-24-2			
24.060	24.060	(0.000)	VWD1A	429252	30.0000	30.1	80.00- 120.00	100.00	
24.157	24.157	(0.000)	ADC1A	1699556			316.75- 475.12	395.93	
20 Indeno(123cd)Pyrene						CAS #: 193-39-5			
24.513	24.513	(0.000)	VWD1A	1120730	30.0000	30.4			

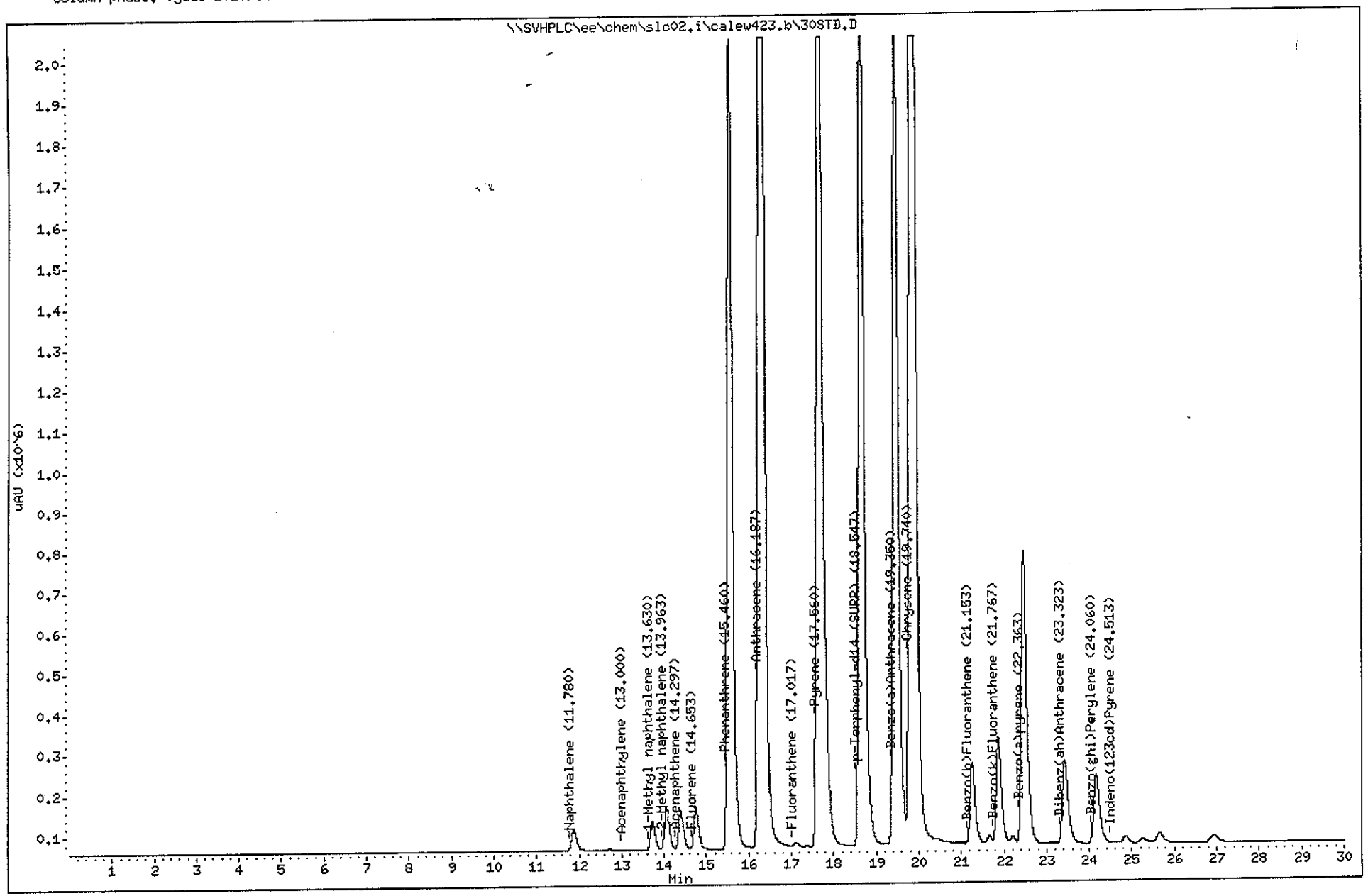
QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\SVHPLC\ee\chem\slc02.i\calew423.b\30STD.D
Date : 22-APR-2002 15:32
Client ID: 30STD
Sample Info: SV4682
Purge Volume: 1000.0
Column phase: Vydac 201TP54

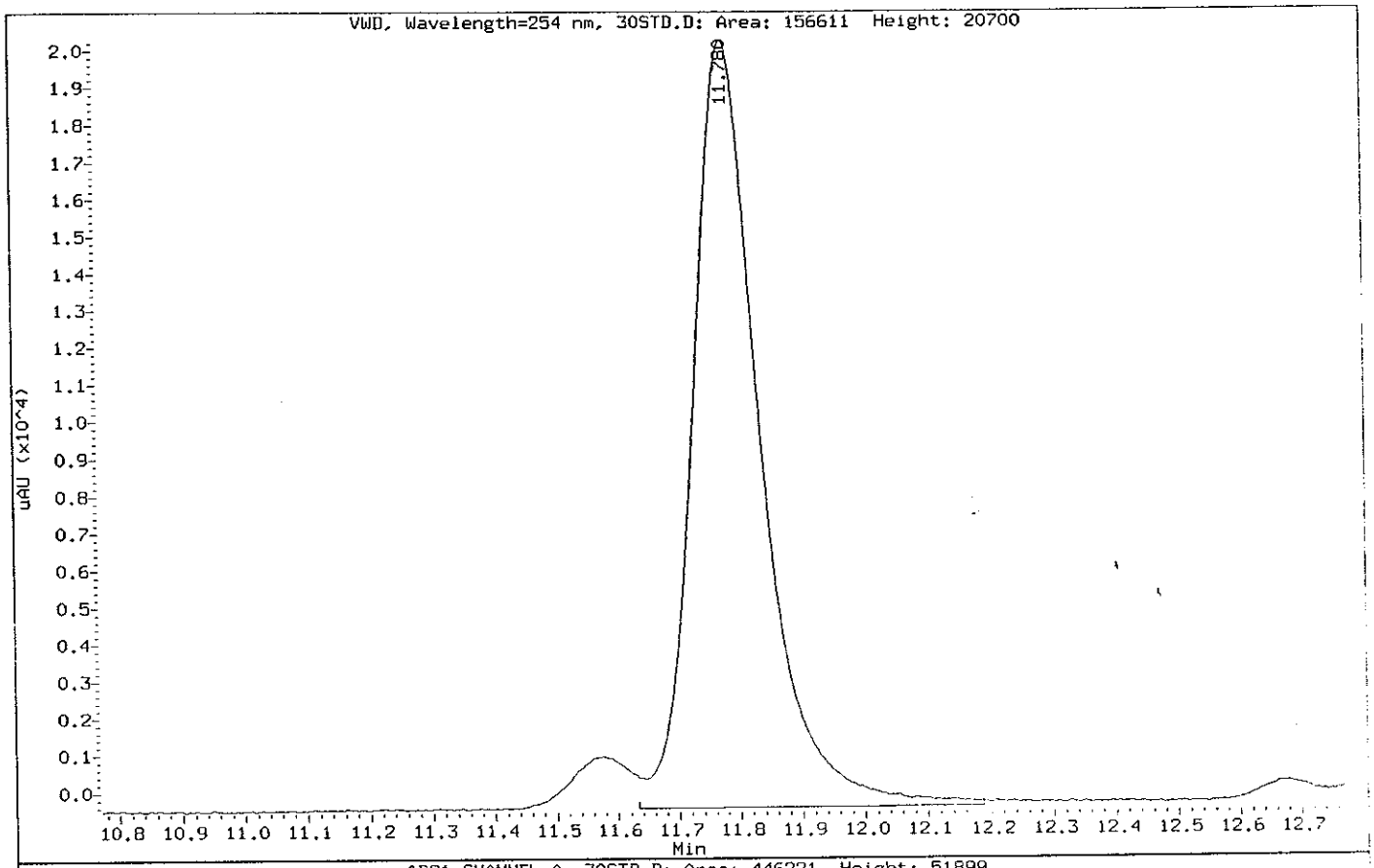
Instrument: slc02.i

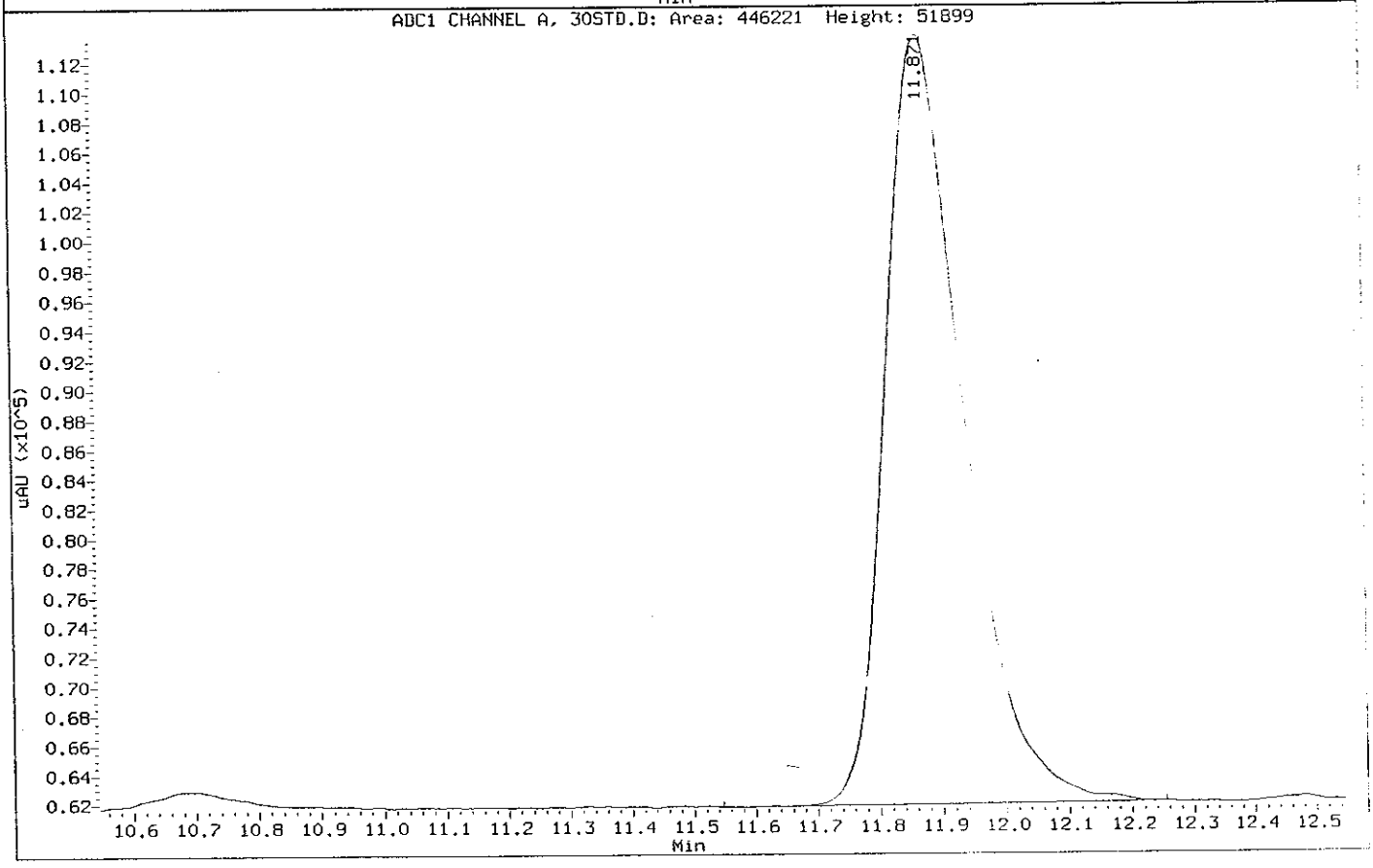
Operator: dent
Column diameter: 4.60



Data File: \\SVHPLC\ee\chem\slc02.i\calew423.b\30STD.D
Injection Date: 22-APR-2002 15:32
Instrument: slc02.i
Client Sample ID: 30STD

Compound: Naphthalene
CAS Number: 91-20-3





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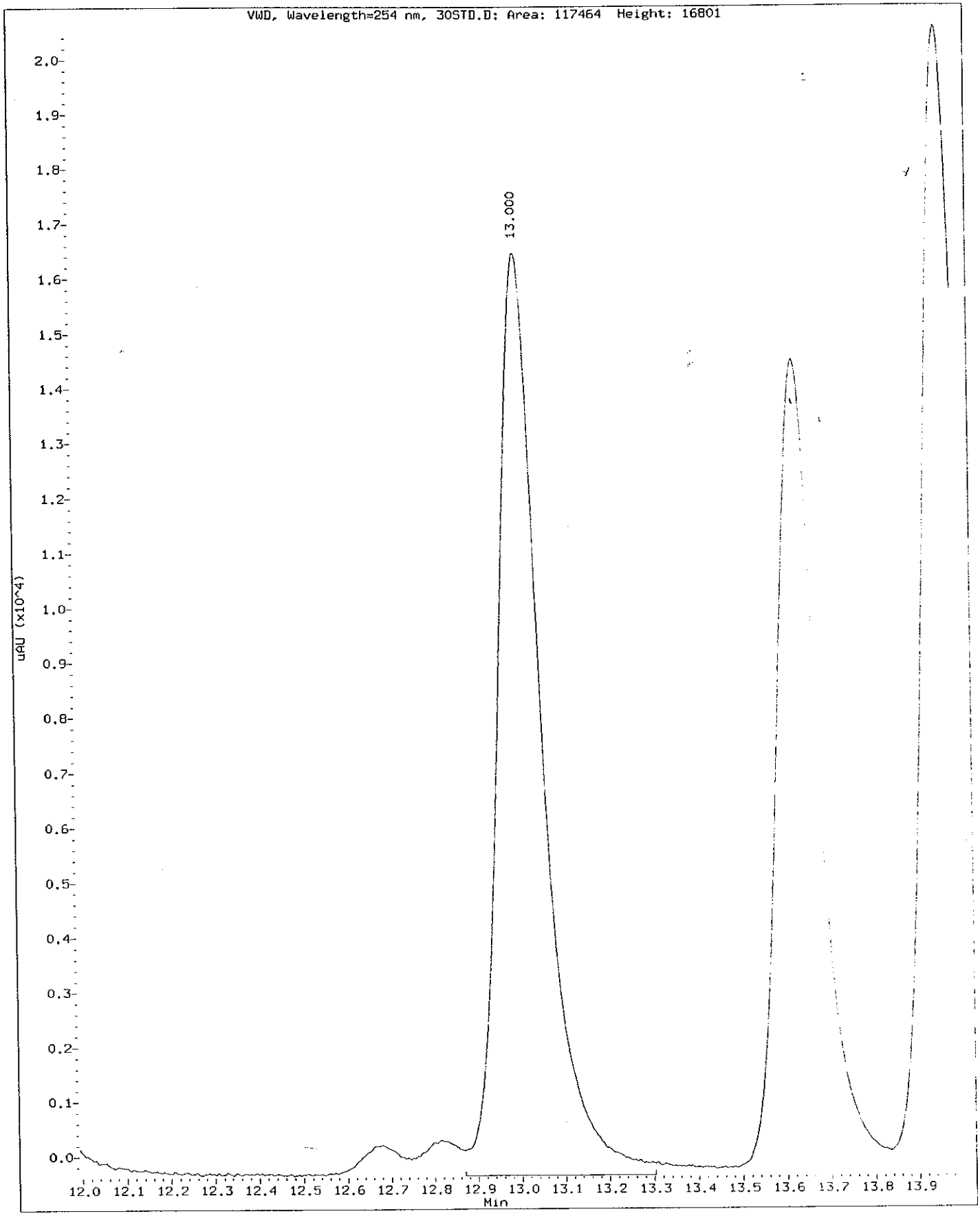
Injection Date: 22-APR-2002 15:32
Instrument: slc02.i
Client Sample ID: 30STD

Compound: Acenaphthylene
CAS Number: 208-96-8



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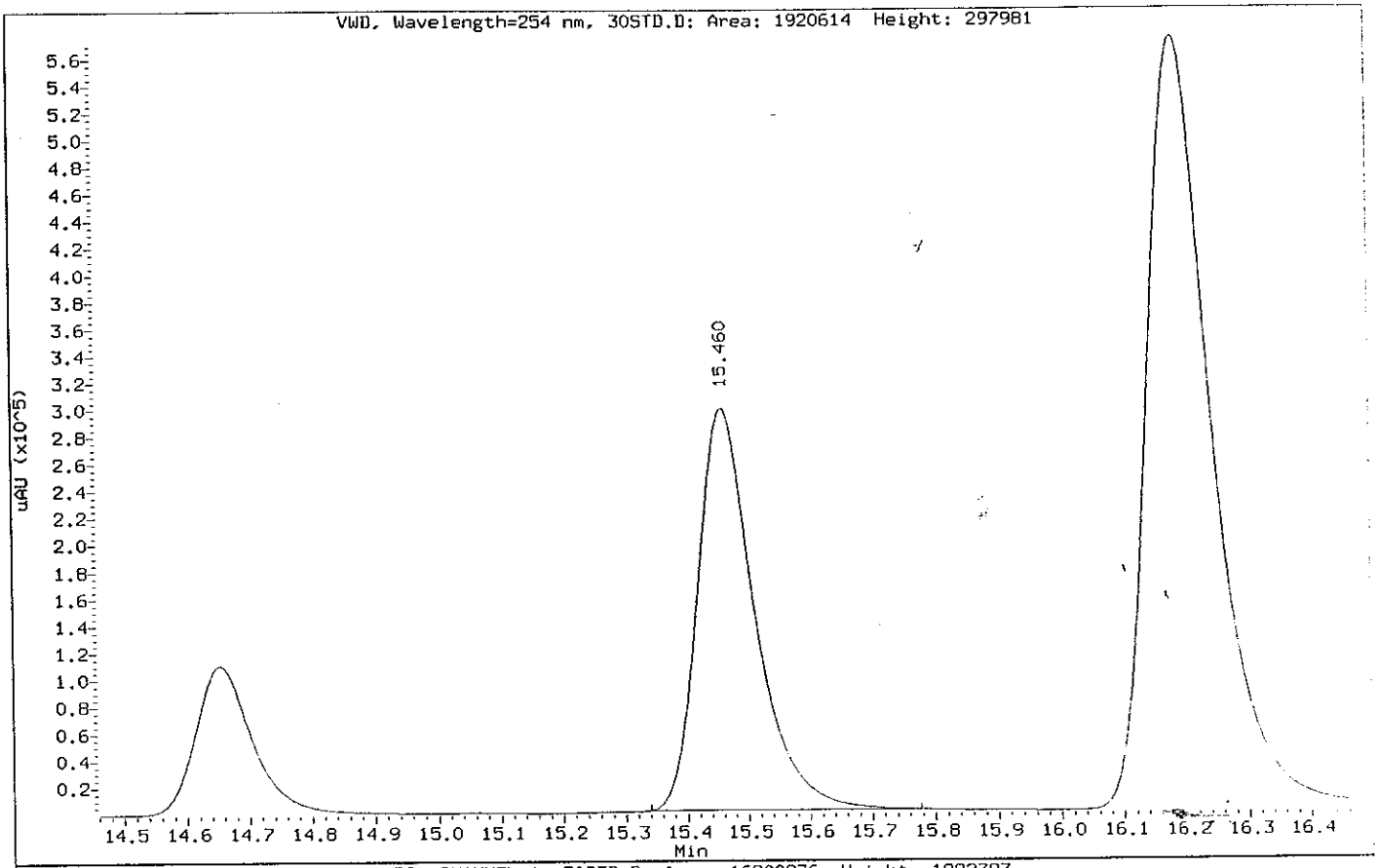
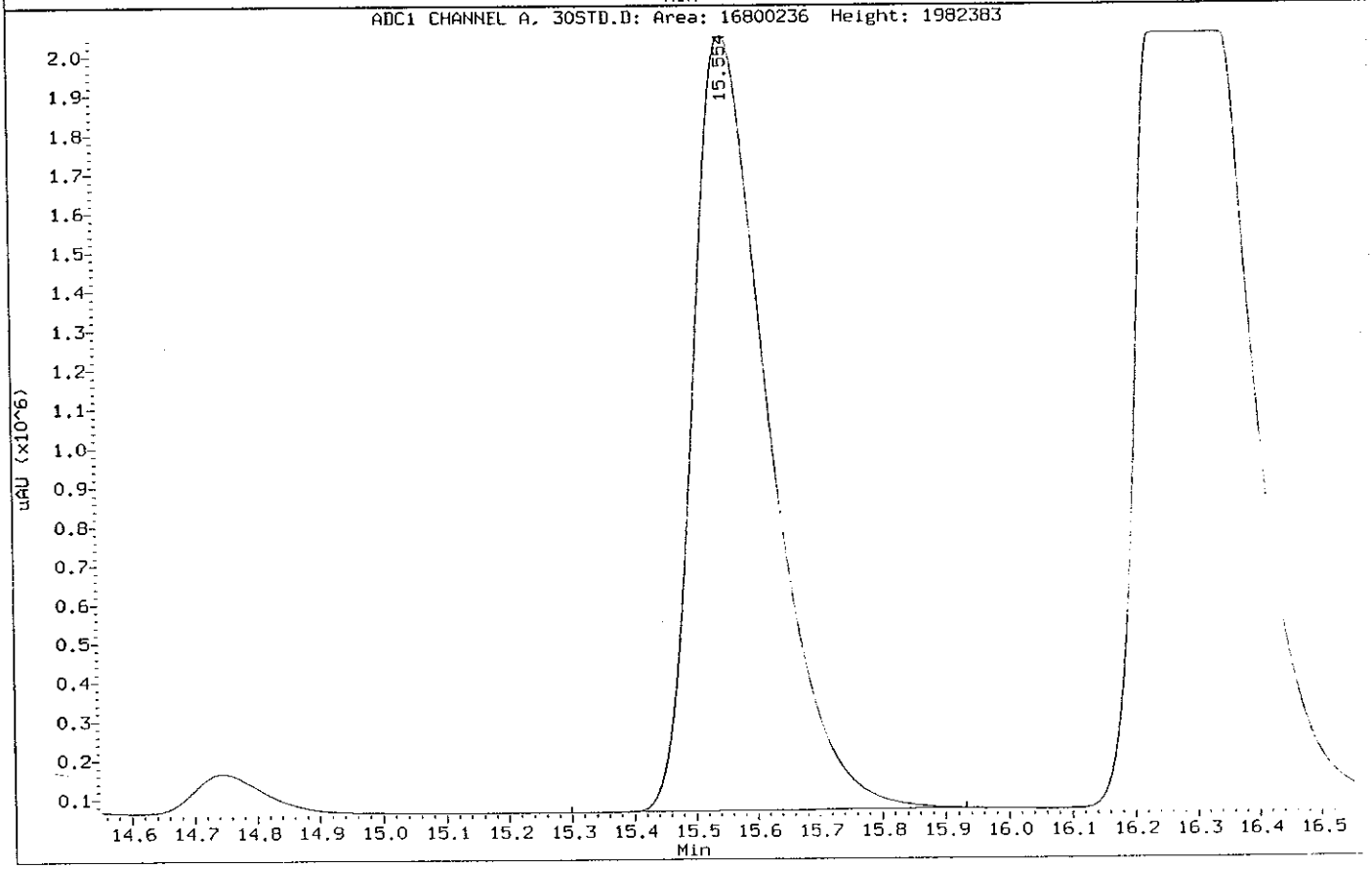
Injection Date: 22-APR-2002 15:32
Instrument: slc02.i
Client Sample ID: 30STD

Compound: Phenanthrene
CAS Number: 85-01-8





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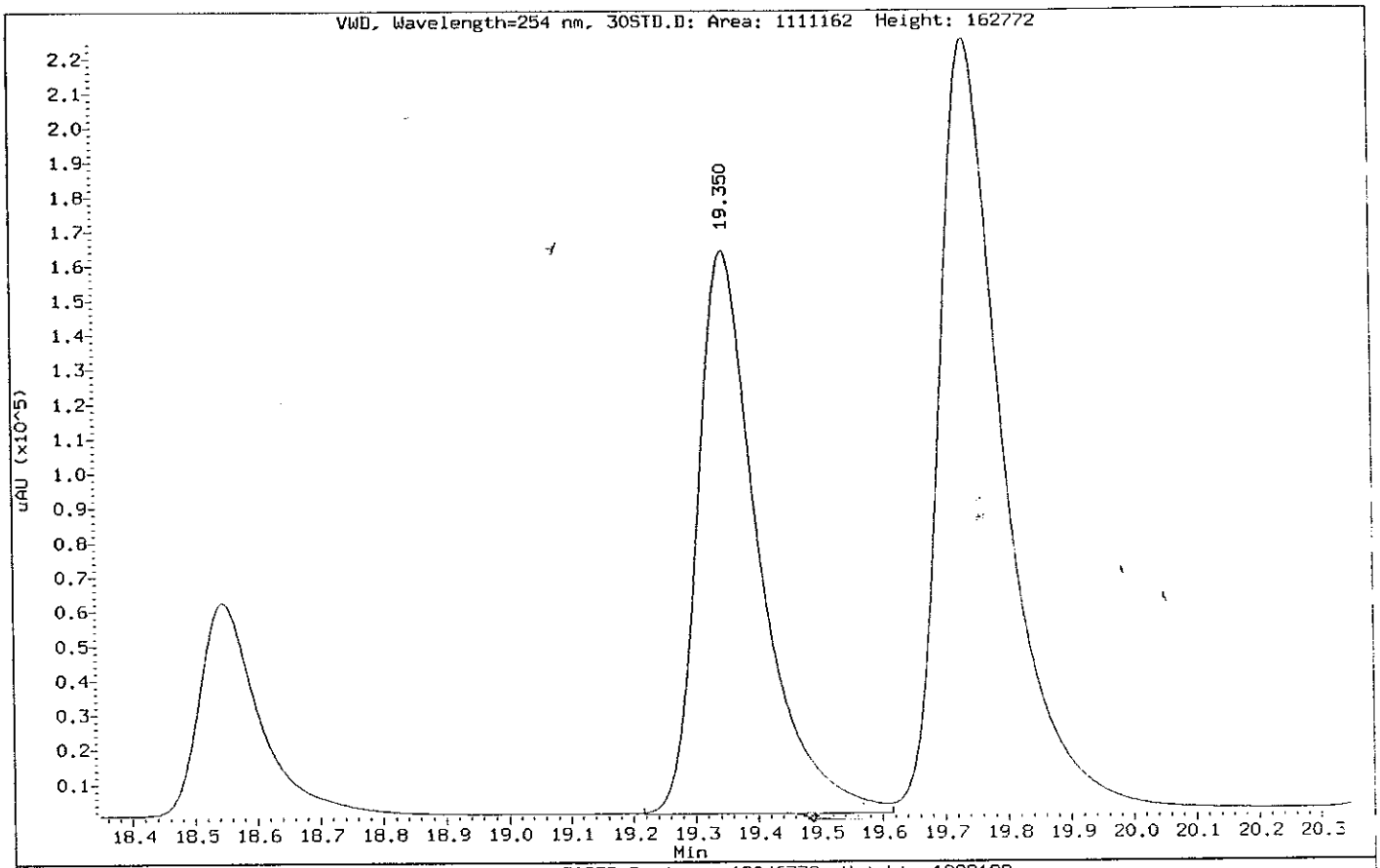
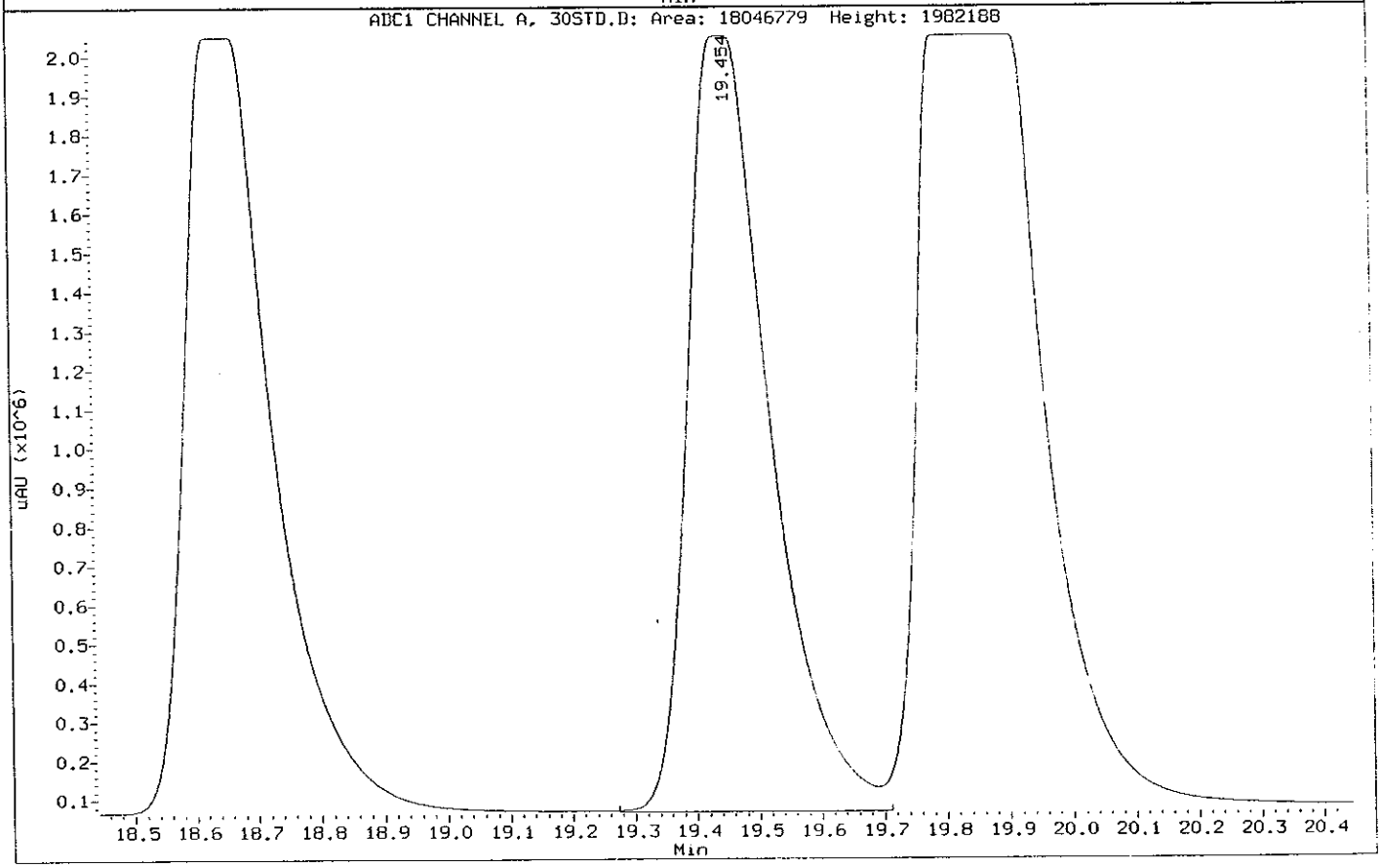
Injection Date: 22-APR-2002 15:32
Instrument: slc02.i
Client Sample ID: 30STD

Compound: Benzo(a)Anthracene
CAS Number: 56-55-3





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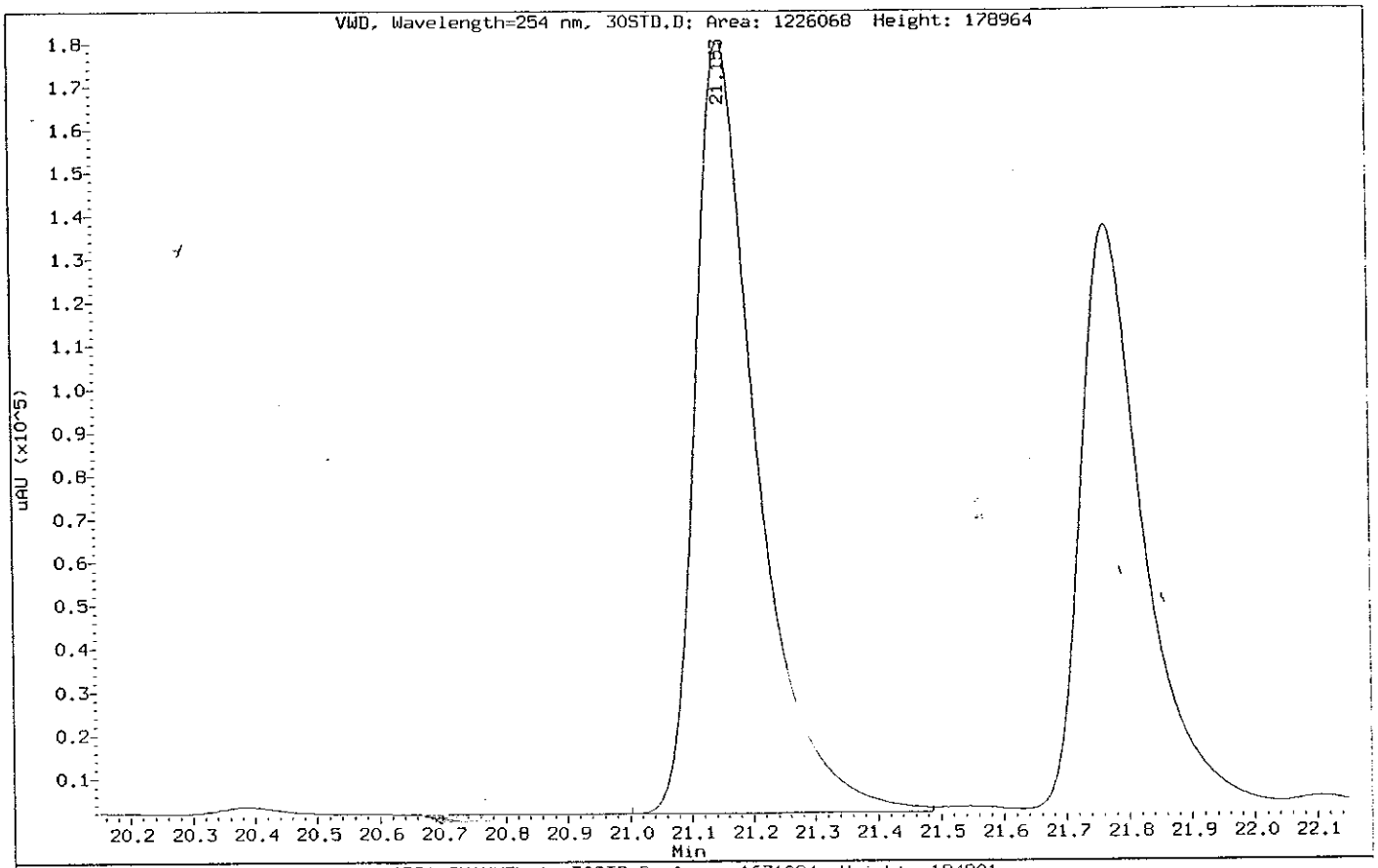
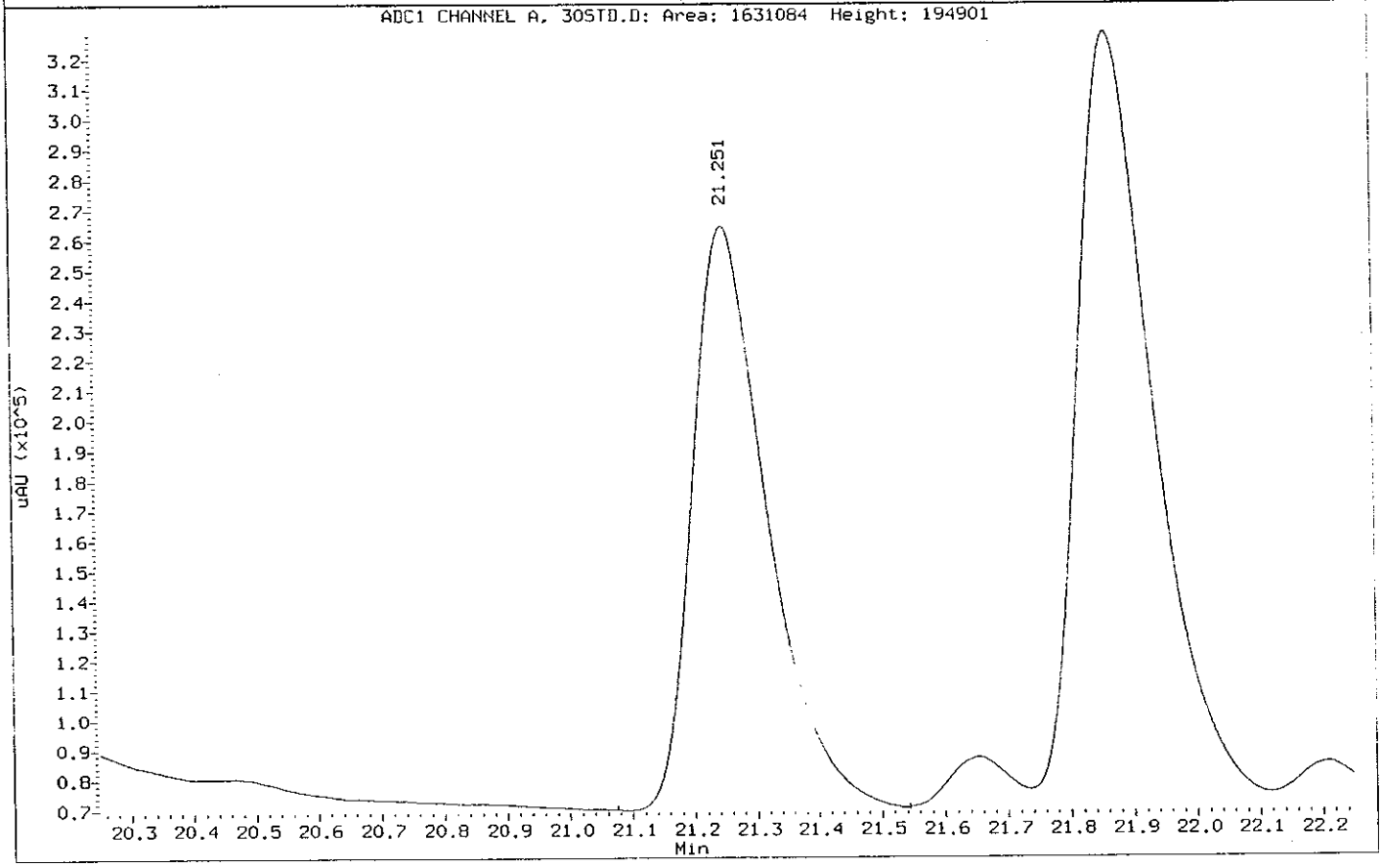
Injection Date: 22-APR-2002 15:32
Instrument: slc02.i
Client Sample ID: 30STD

Compound: Benzo(b)Fluoranthene
CAS Number: 205-99-2





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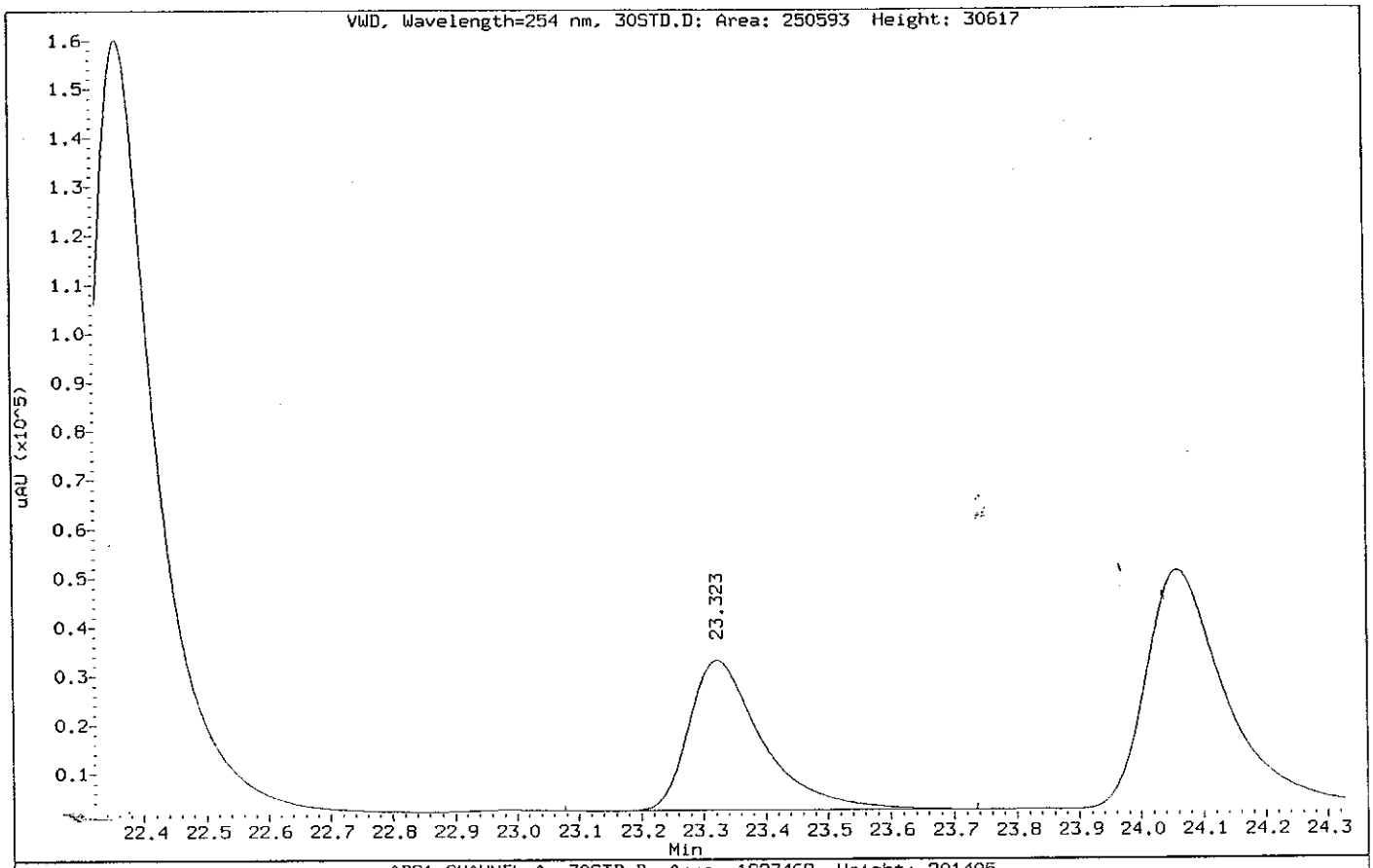
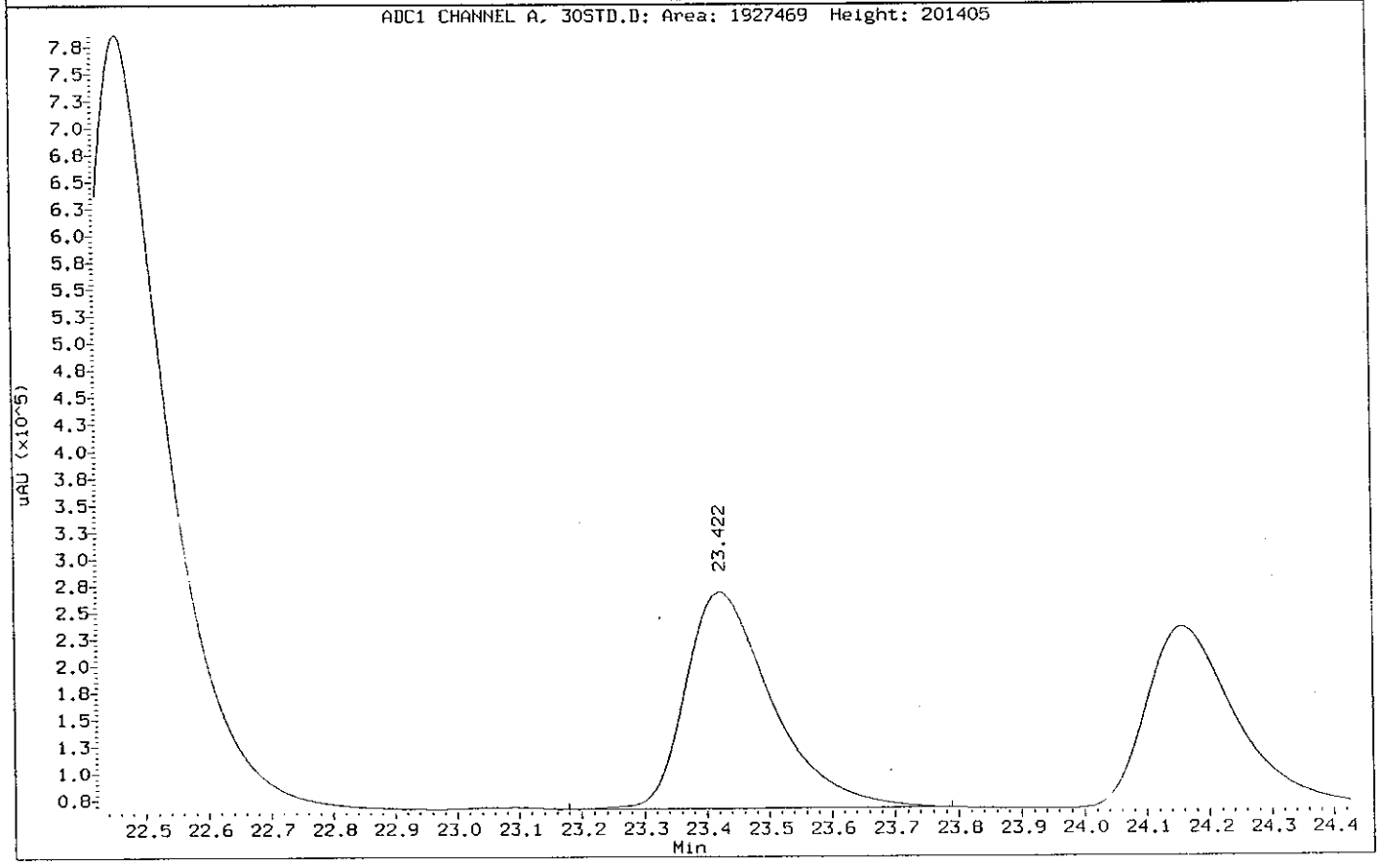
Injection Date: 22-APR-2002 15:32
Instrument: slc02.i
Client Sample ID: 30STD

Compound: Dibenz(ah)Anthracene
CAS Number: 53-70-3





Data File: \\SVHPLC\ee\chem\slc02.i\calew423.b\SECCCV.D
Report Date: 17-May-2002 14:56

PEL Laboratories, Inc.

Data file : \\SVHPLC\ee\chem\slc02.i\calew423.b\SECCCV.D
Lab Smp Id: SV4344 Client Smp ID: SECCCV
Inj Date : 22-APR-2002 16:07
Operator : dent Inst ID: slc02.i
Smp Info : SV4344
Misc Info :
Comment :
Method : \\SVHPLC\ee\chem\slc02.i\calew423.b\8310AE.m
Meth Date : 17-May-2002 14:56 lkeene Quant Type: ESTD
Cal Date : 22-APR-2002 15:32 Cal File: 30STD.D
Als bottle: 21 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.04 Sample Matrix: WATER

Concentration Formula: Amt * DF * 1/(Vo/1000)*Vt

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume Extracted
Vt	1.000	

					AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	TARGET RANGE	RATIO	
2 Naphthalene						CAS #: 91-20-3			
11.770	11.770	(0.000)	VWD1A	86938	15.0000	16.7	80.00- 120.00	100.00	(M)
11.861	11.770	(0.091)	ADC1A	230040			211.68- 317.52	264.60	
3 Acenaphthylene						CAS #: 208-96-8			
12.993	12.993	(0.000)	VWD1A	60362	15.0000	15.4			(H)
4 1-Methyl naphthalene						CAS #: 90-12-0			
13.623	13.623	(0.000)	VWD1A	51940			80.00- 120.00	100.00	
13.712	13.623	(0.089)	ADC1A	285769	15.0000	16.1	440.15- 660.23	550.19	
5 2-Methyl naphthalene						CAS #: 91-57-6			
13.960	13.960	(0.000)	VWD1A	72188	15.0000	16.5	80.00- 120.00	100.00	
14.049	13.960	(0.089)	ADC1A	419659			465.07- 697.61	581.34	
6 Acenaphthene						CAS #: 83-32-9			
14.296	14.296	(0.000)	VWD1A	32076			80.00- 120.00	100.00	

Data File: \\SVHPLC\ee\chem\slc02.i\calew423.b\SECCCV.D
Report Date: 17-May-2002 14:56

RT	EXP RT	DLT RT	SIGNAL	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
6 Acenaphthene (continued)								
14.384	14.296	(0.088)	ADC1A	372391	15.0000	16.0	928.77-1393.16	1160.96
7 Fluorene							CAS #: 86-73-7	
14.653	14.653	(0.000)	VWD1A	384948	15.0000	16.3		
8 Phenanthrene							CAS #: 85-01-8	
15.460	15.460	(0.000)	VWD1A	1071444			80.00- 120.00	100.00(M)
15.551	15.460	(0.091)	ADC1A	9342932	15.0000	16.6	697.60-1046.39	871.99
9 Anthracene							CAS #: 120-12-7	
16.183	16.183	(0.000)	VWD1A	2265146	15.0000	15.9	80.00- 120.00	100.00
16.294	16.183	(0.111)	ADC1A	18890024			667.15-1000.73	833.94
10 Fluoranthene							CAS #: 206-44-0	
17.013	17.013	(0.000)	VWD1A	256396	15.0000	16.3		
11 Pyrene							CAS #: 129-00-0	
17.556	17.556	(0.000)	VWD1A	229113	15.0000	16.5	80.00- 120.00	100.00
17.651	17.556	(0.095)	ADC1A	14578985			5090.58-7635.87	6363.23
$ 12 p-Terphenyl-d14 (SURR)							CAS #: 1718-51-0	
18.546	18.546	(0.000)	VWD1A	225157	15.0000	16.1	80.00- 120.00	100.00
18.641	18.546	(0.095)	ADC1A	11038077			3921.91-5882.87	4902.39
13 Benzo(a)Anthracene							CAS #: 56-55-3	
19.346	19.346	(0.000)	VWD1A	603089	15.0000	16.3	80.00- 120.00	100.00(M)
19.442	19.346	(0.096)	ADC1A	10116793			1342.00-2013.00	1677.50
14 Chrysene							CAS #: 218-01-9	
19.740	19.740	(0.000)	VWD1A	851102	15.0000	16.5	80.00- 120.00	100.00
19.871	19.740	(0.131)	ADC1A	21094747			1982.82-2974.23	2478.52
15 Benzo(b)Fluoranthene							CAS #: 205-99-2	
21.150	21.150	(0.000)	VWD1A	673928	15.0000	16.5	80.00- 120.00	100.00(M)
21.247	21.150	(0.097)	ADC1A	912526			108.32- 162.48	135.40
16 Benzo(k)Fluoranthene							CAS #: 207-08-9	
21.770	21.770	(0.000)	VWD1A	501221	15.0000	16.2	80.00- 120.00	100.00
21.867	21.770	(0.097)	ADC1A	1187246			189.50- 284.24	236.87
17 Benzo(a)pyrene							CAS #: 50-32-8	
22.363	22.363	(0.000)	VWD1A	601717			80.00- 120.00	100.00
22.462	22.363	(0.099)	ADC1A	3503642	15.0000	16.3	465.82- 698.73	582.27
18 Dibenz(ah)Anthracene							CAS #: 53-70-3	
23.326	23.326	(0.000)	VWD1A	140070	15.0000	16.9	80.00- 120.00	100.00(M)

Data File: \\SVHPLC\ee\chem\slc02.i\calew423.b\SECCCV.D
Report Date: 17-May-2002 14:56

RT	EXP RT	DLT RT	SIGNAL	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
18 Dibenz(ah)Anthracene (continued)								
23.426	23.326	(0.100)	ADC1A	1053658			601.79- 902.68	752.24
19 Benzo(ghi)Perylene						CAS #: 191-24-2		
24.060	24.060	(0.000)	VWD1A	228490	15.0000	16.0	80.00- 120.00	100.00
24.161	24.060	(0.101)	ADC1A	894737			313.27- 469.90	391.59
20 Indeno(123cd)Pyrene						CAS #: 193-39-5		
24.520	24.520	(0.000)	VWD1A	594781	15.0000	16.1		

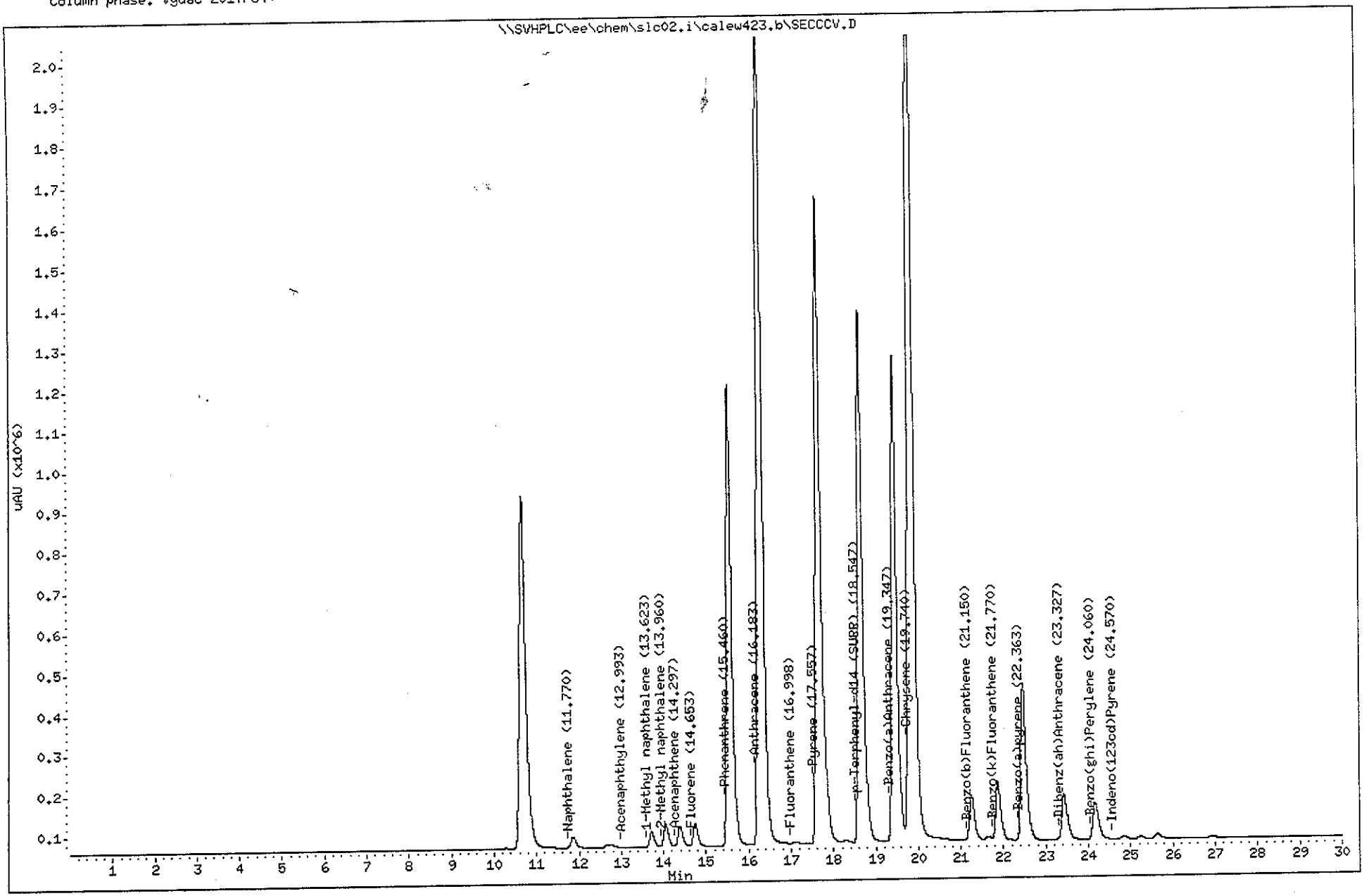
QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\SVHPLC\ee\chem\slc02.i\calew423.b\SECCCV.D
Date : 22-APR-2002 16:07
Client ID: SECCCV
Sample Info: SV4344
Purge Volume: 1000.0
Column phase: Vydac 201TP54

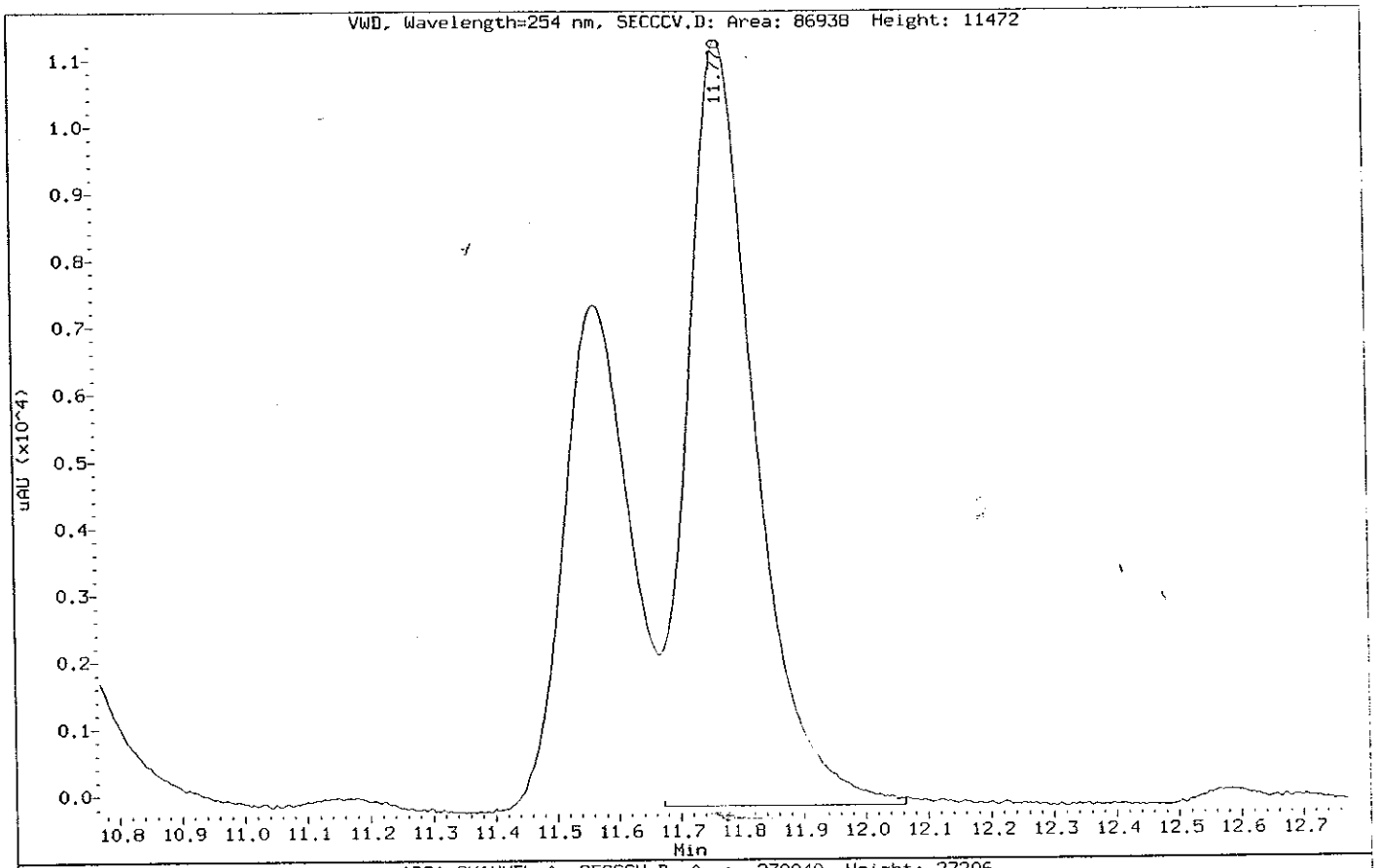
Instrument: slc02.i

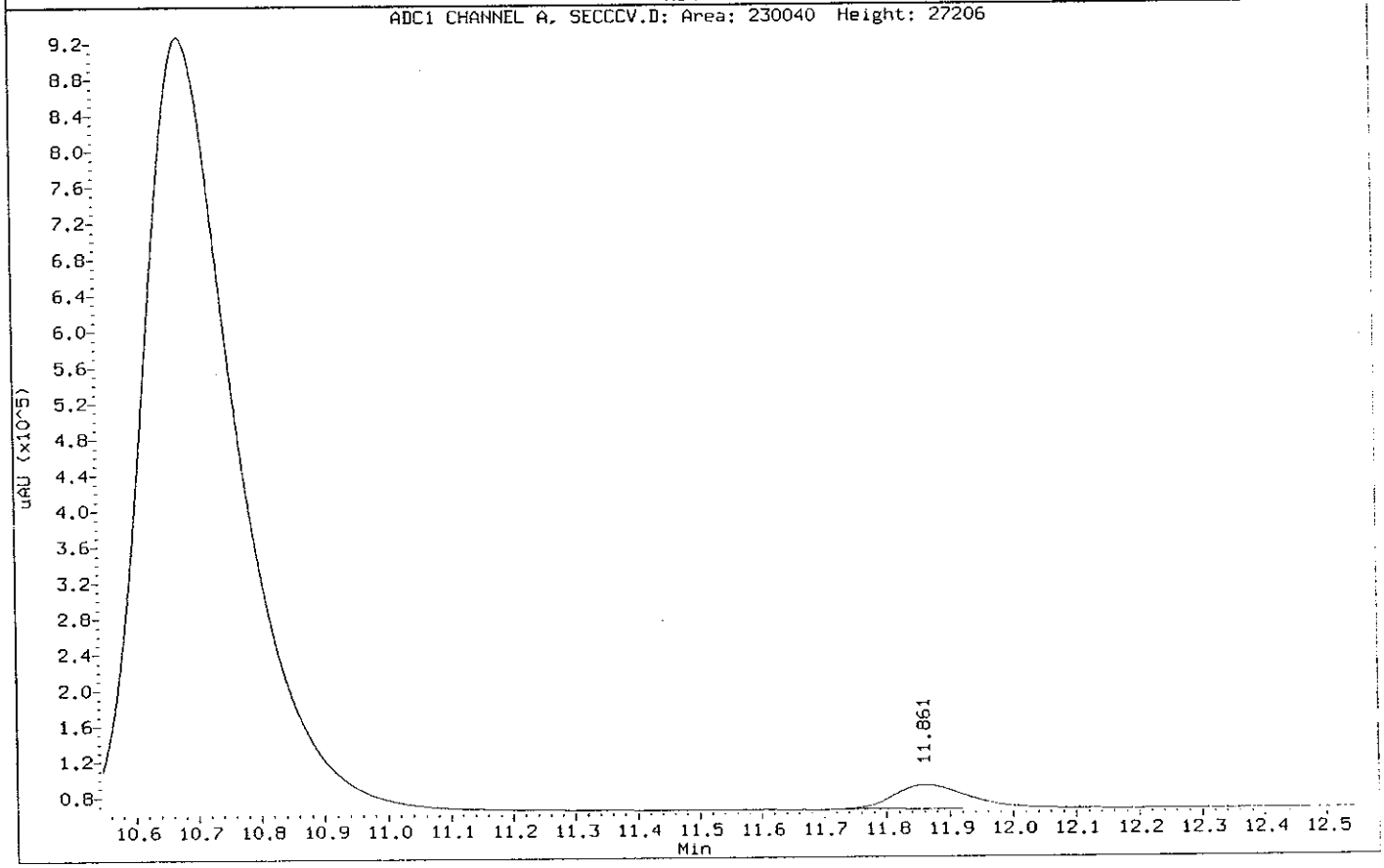
Operator: dent
Column diameter: 4.60



Data File: \\SVHPLC\ee\chem\slc02.i\calew423.b\SECCCV.D
Injection Date: 22-APR-2002 16:07
Instrument: slc02.i
Client Sample ID: SECCCV

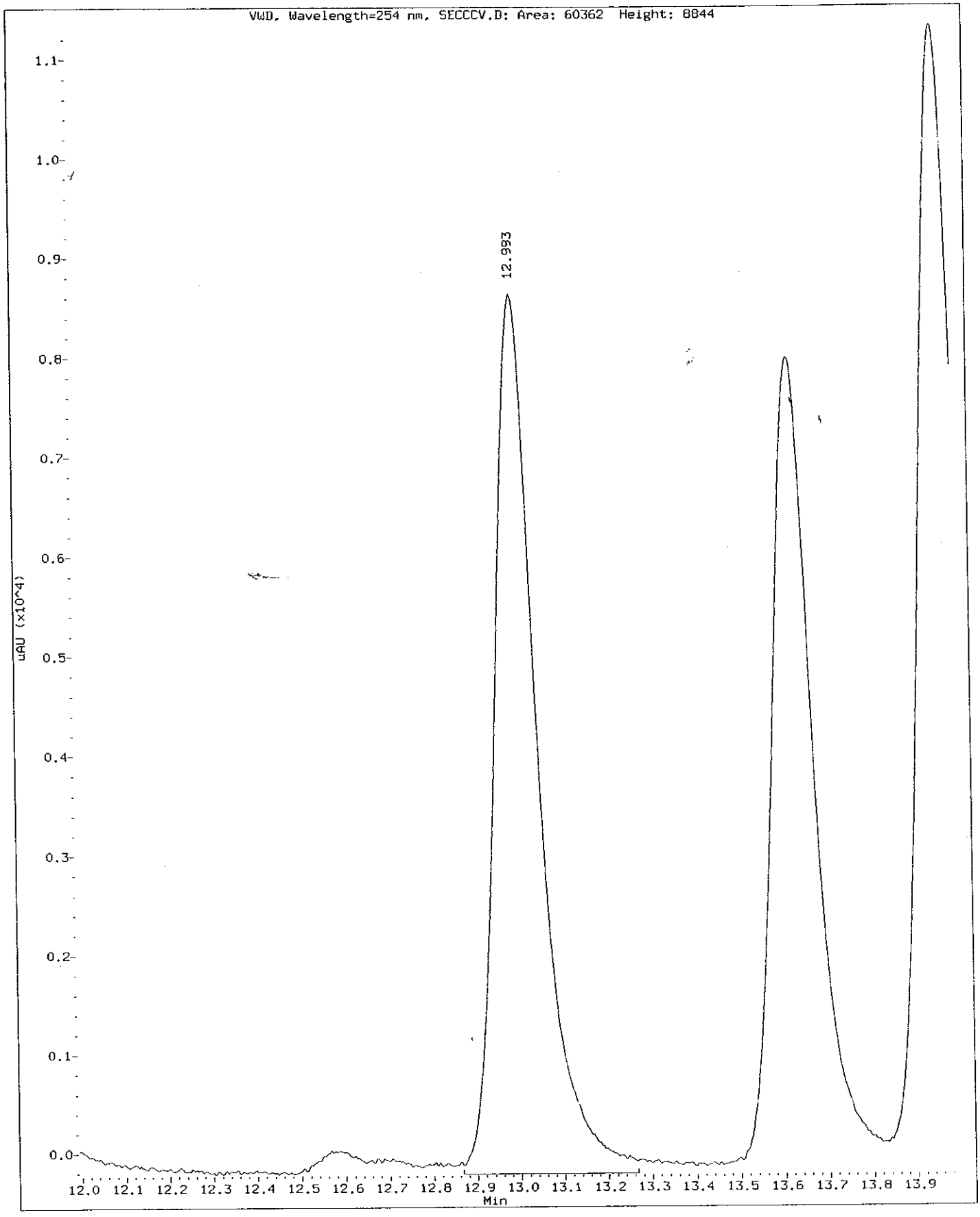
Compound: Naphthalene
CAS Number: 91-20-3





Data File: \\SVHPLC\ee\chem\slc02.i\calew423.b\SECCCV.D
Injection Date: 22-APR-2002 16:07
Instrument: slc02.i
Client Sample ID: SECCCV

Compound: Acenaphthylene
CAS Number: 208-96-8



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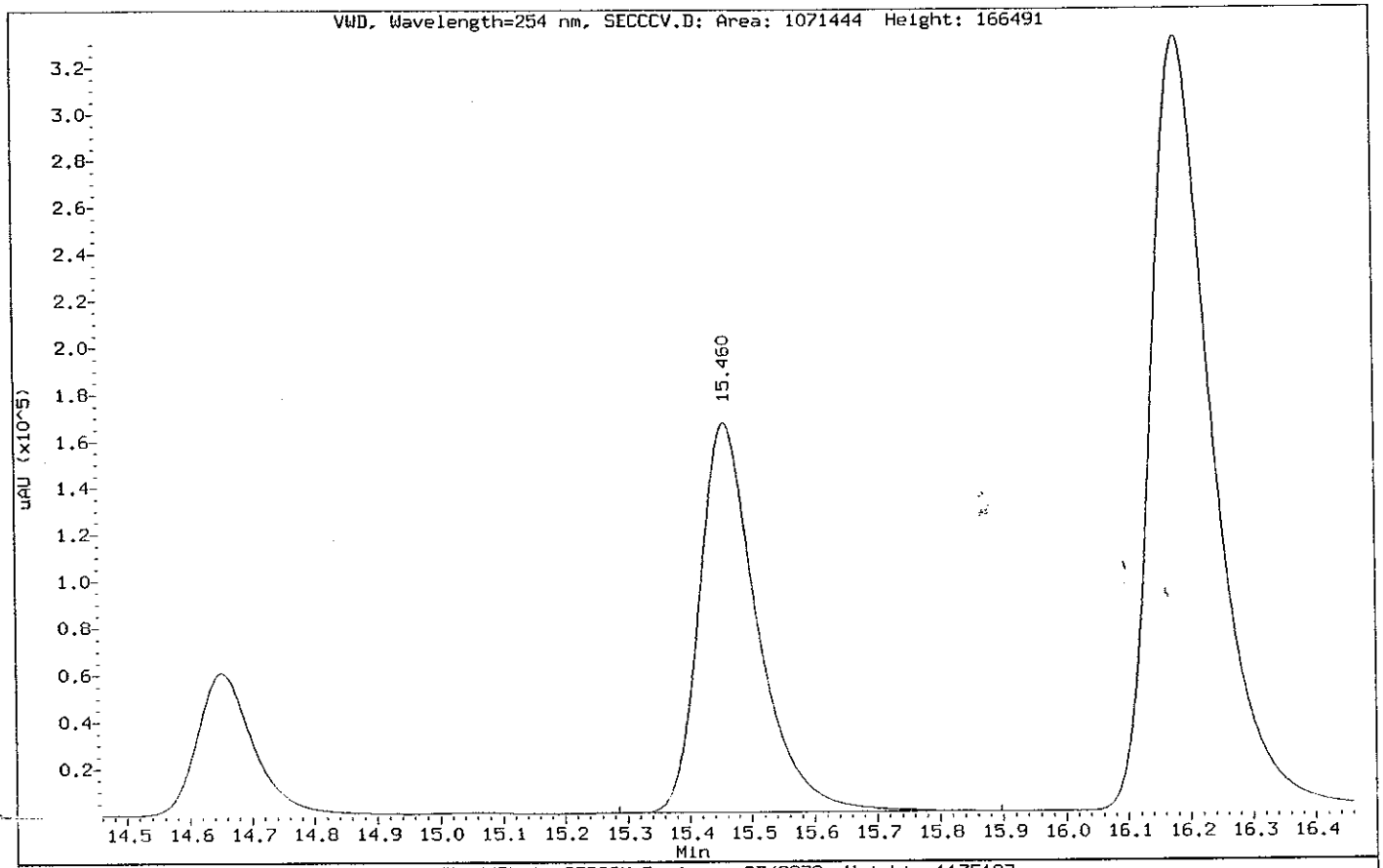
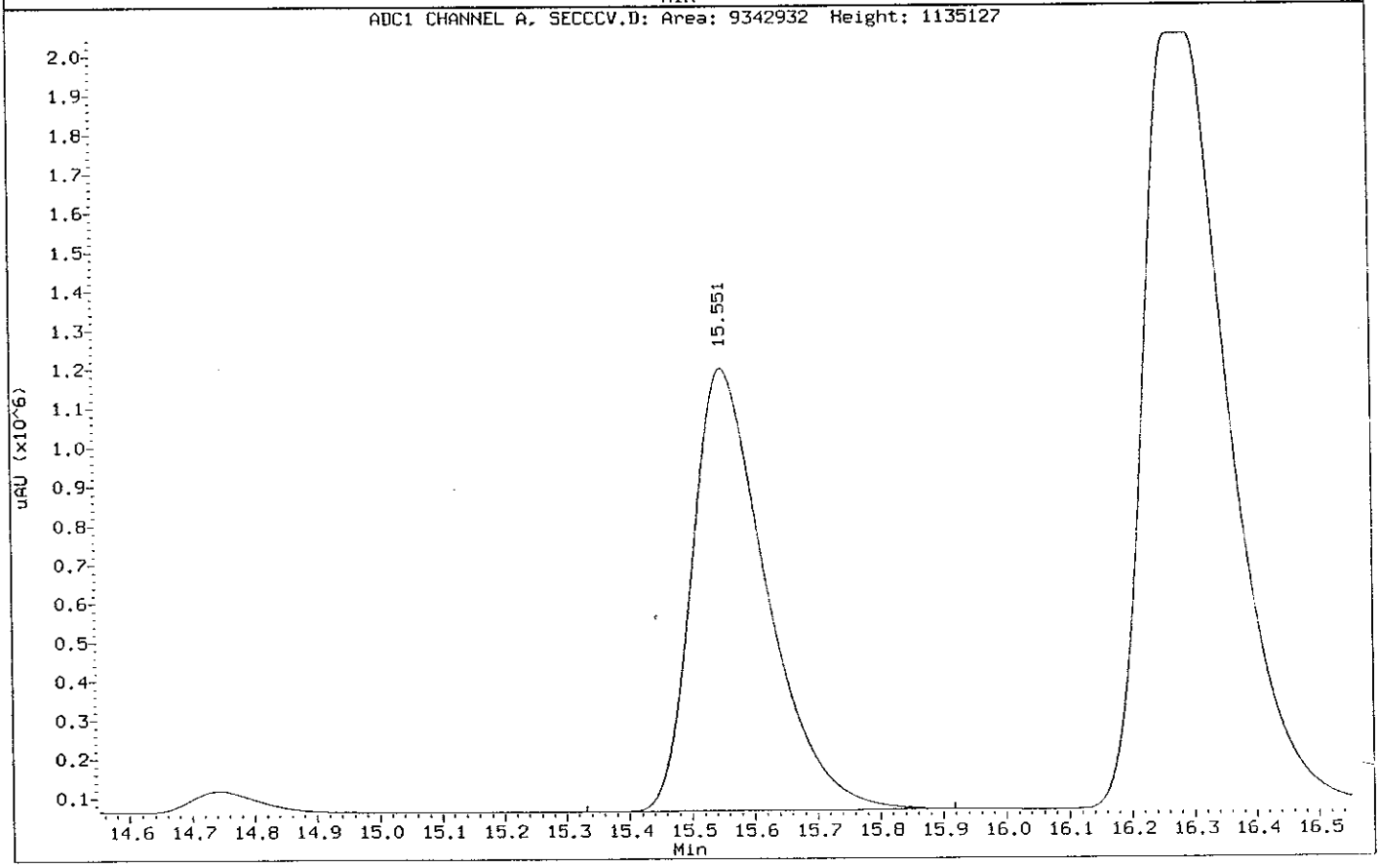
Injection Date: 22-APR-2002 16:07
Instrument: slc02.i
Client Sample ID: SECCCV

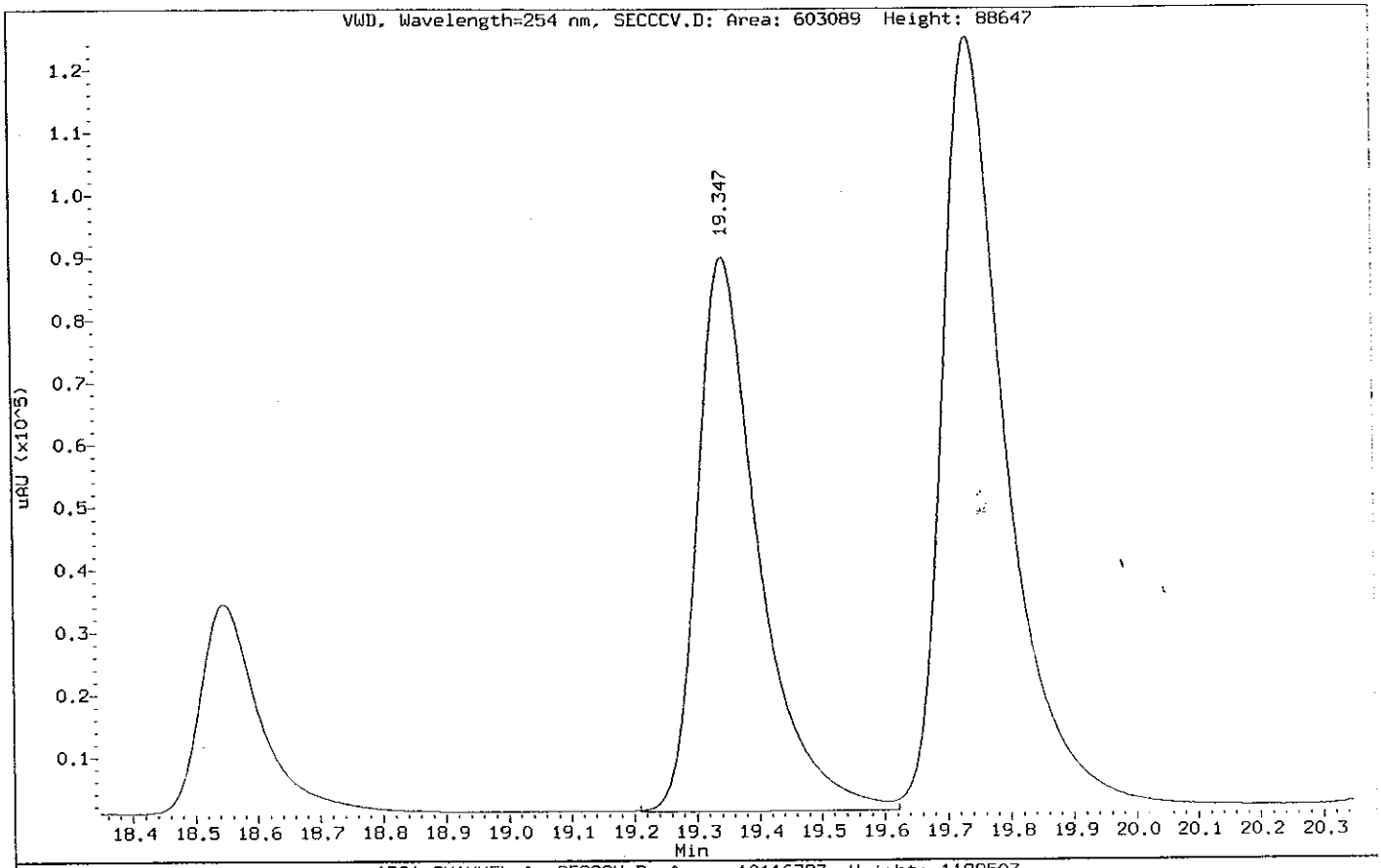
Compound: Phenanthrene
CAS Number: 85-01-8

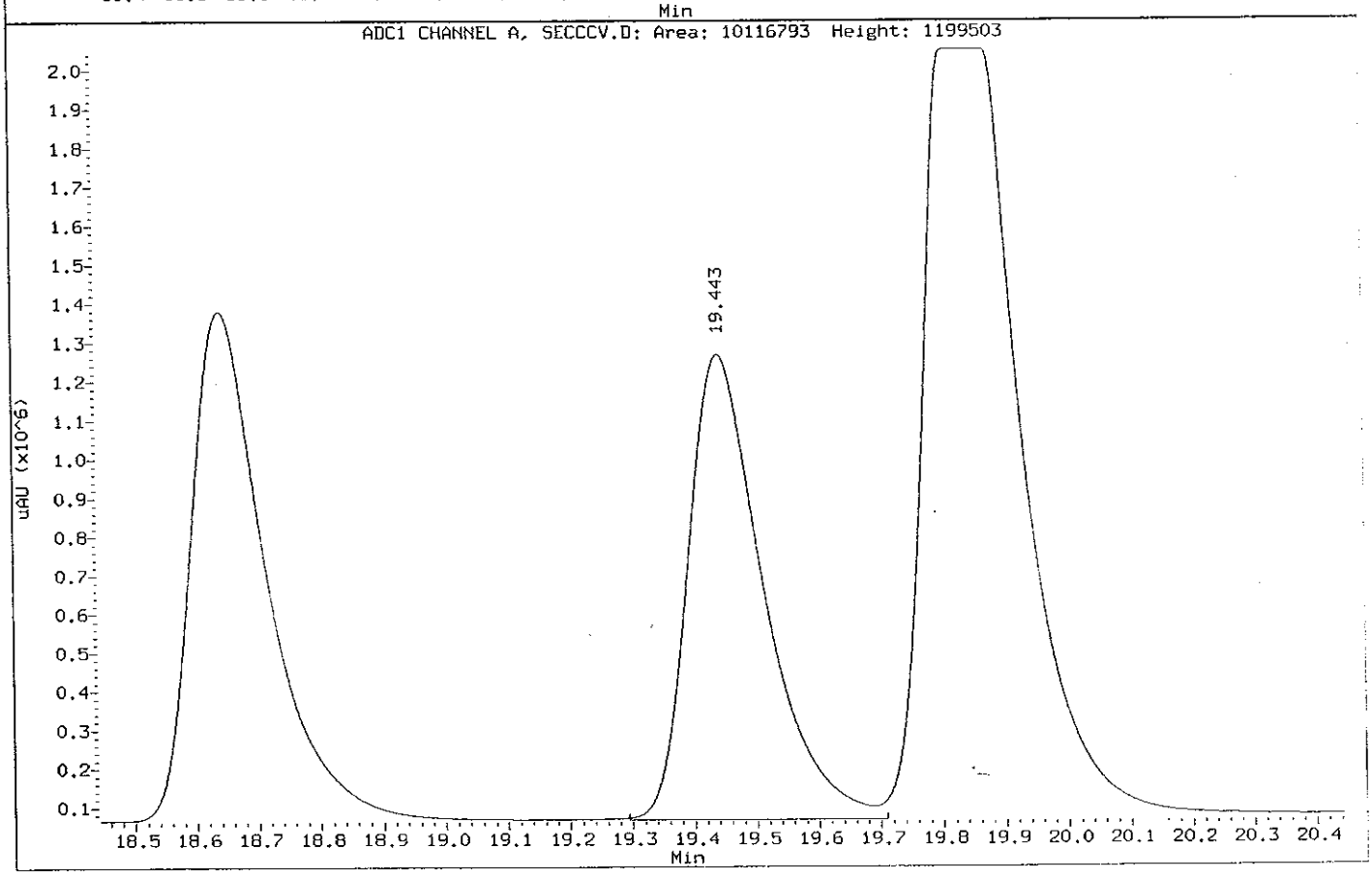




Data File: \\SVHPLC\ee\chem\slc02.i\calew423.b\SECCCV.D
Injection Date: 22-APR-2002 16:07
Instrument: slc02.i
Client Sample ID: SECCCV

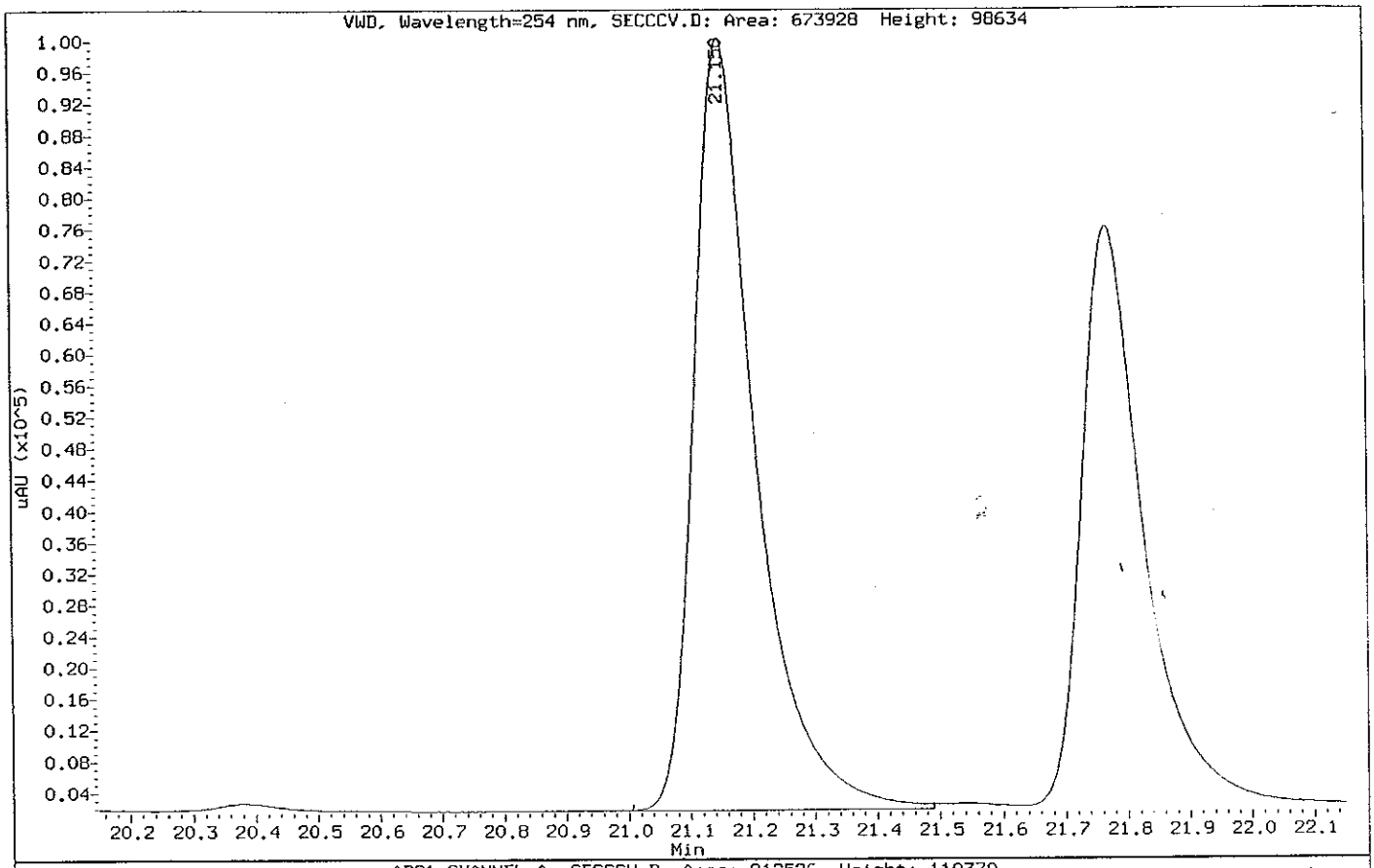
Compound: Benzo(a)Anthracene
CAS Number: 56-55-3

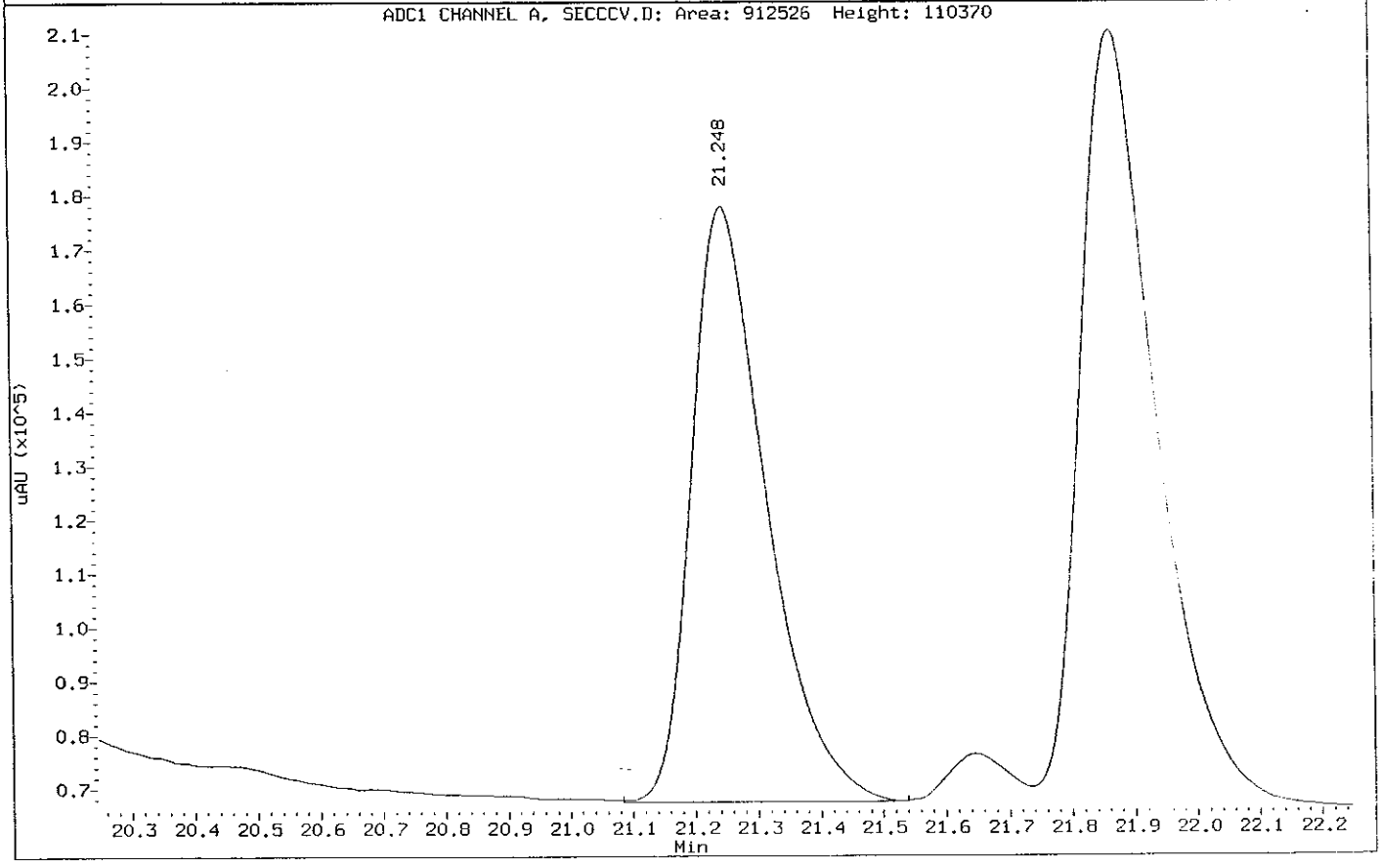




Data File: \\SVHPLC\ee\chem\slc02.i\calew423.b\SECCCV.D
Injection Date: 22-APR-2002 16:07
Instrument: slc02.i
Client Sample ID: SECCCV

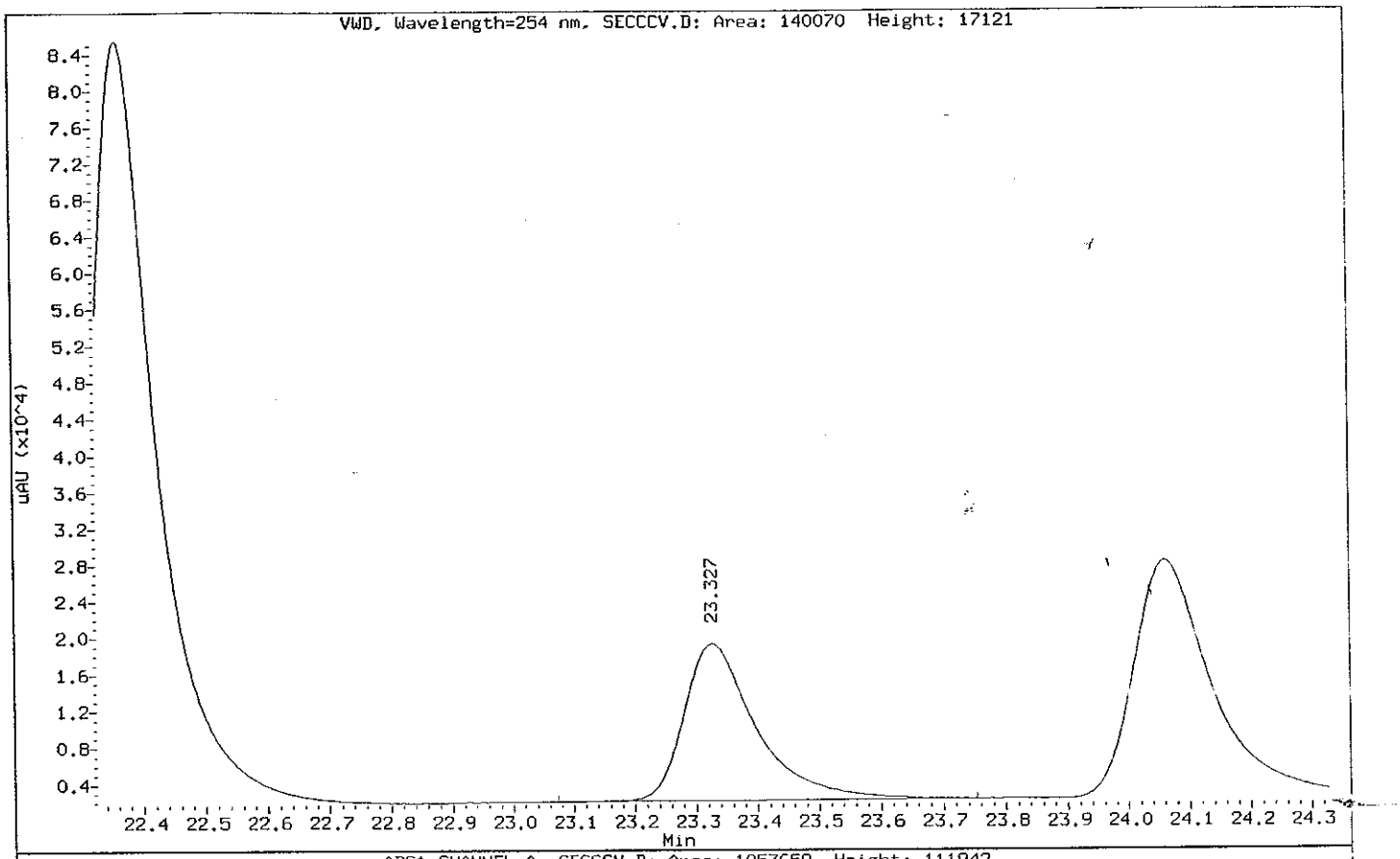
Compound: Benzo(b)Fluoranthene
CAS Number: 205-99-2

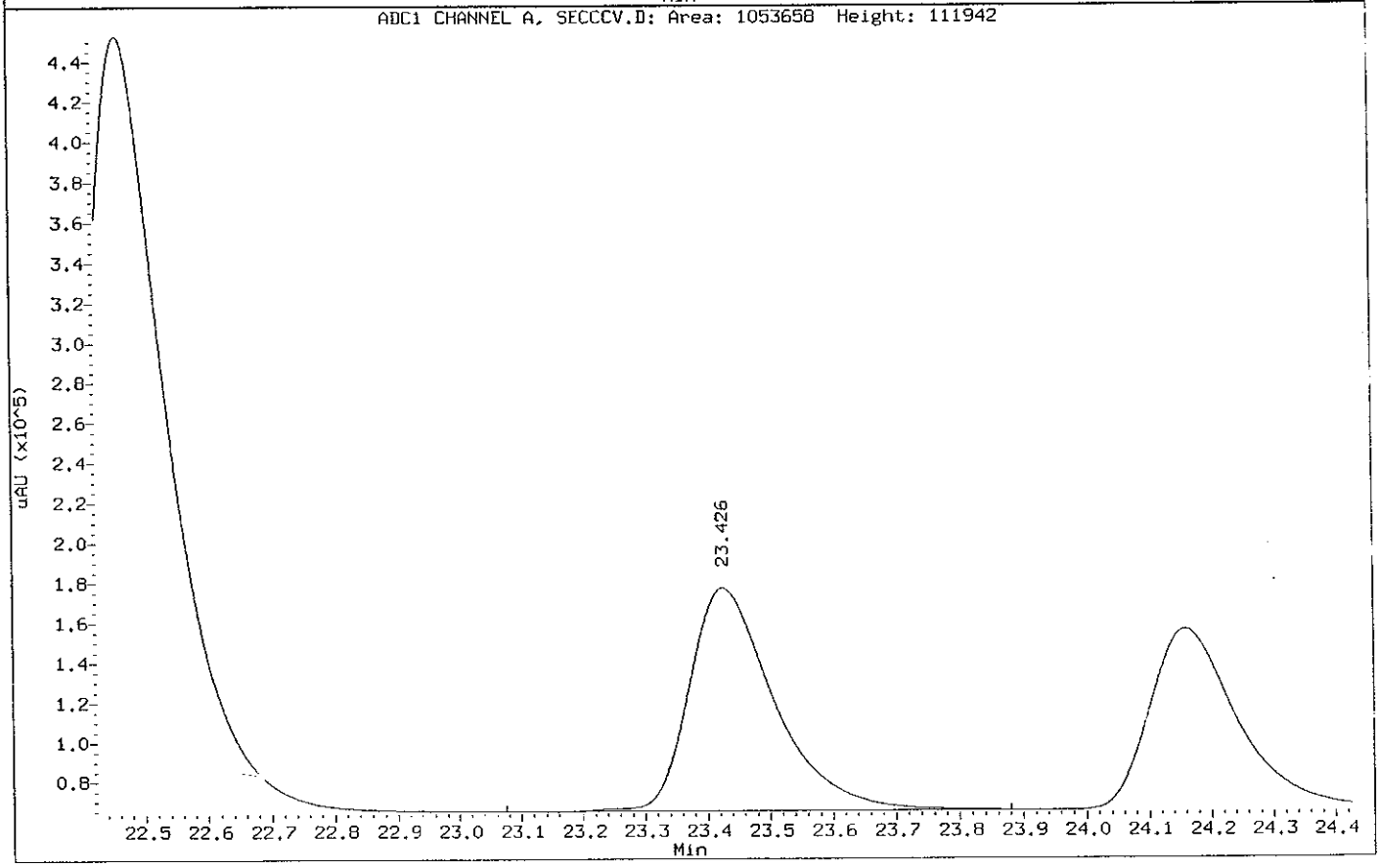




Data File: \\SVHPLC\ee\chem\slc02.i\calew423.b\SECCCV.D
Injection Date: 22-APR-2002 16:07
Instrument: slc02.i
Client Sample ID: SECCCV

Compound: Dibenz(ah)Anthracene
CAS Number: 53-70-3





PEL Laboratories, Inc.

Data file : \\SVHPLC\ee\chem\slc02.i\L2051402A.B\CCV22.D
Lab Smp Id: SV4942 Client Smp ID: CCV22
Inj Date : 14-MAY-2002 15:40
Operator : ROOD Inst ID: slc02.i
Smp Info : SV4942
Misc Info :
Comment :
Method : \\SVHPLC\ee\chem\slc02.i\L2051402A.B\8310AE.m
Meth Date : 17-May-2002 13:47 tscott Quant Type: ESTD
Cal Date : 22-APR-2002 15:32 Cal File: 30STD.D
Als bottle: 21 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.04 Sample Matrix: WATER
Processing Host: SVHPLC

Concentration Formula: Amt * DF * 1/(Vo/1000)*Vt

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume Extracted
Vt	1.000	

RT	EXP RT	DLT RT	SIGNAL	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
2 Naphthalene						CAS #: 91-20-3		
11.760	11.760	(0.000)	VWD1A	73776	15.0000	14.1	80.00- 120.00	100.00
11.849	11.849	(0.000)	ADC1A	198924			215.71- 323.56	269.63
3 Acenaphthylene						CAS #: 208-96-8		
12.973	12.973	(0.000)	VWD1A	55245	15.0000	14.1		
4 1-Methyl naphthalene						CAS #: 90-12-0		
13.600	13.600	(0.000)	VWD1A	46063			80.00- 120.00	100.00
13.690	13.690	(0.000)	ADC1A	244103	15.0000	13.7	423.95- 635.92	529.93
5 2-Methyl naphthalene						CAS #: 91-57-6		
13.936	13.936	(0.000)	VWD1A	63737	15.0000	14.5	80.00- 120.00	100.00
14.024	14.024	(0.000)	ADC1A	363366			456.08- 684.12	570.10

RT	EXP RT	DLT RT	SIGNAL	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
6 Acenaphthene							CAS #: 83-32-9	
14.266	14.266	(0.000)	VWD1A	28048			80.00- 120.00	100.00
14.359	14.359	(0.000)	ADC1A	323418	15.0000	13.9	922.47-1383.71	1153.09
7 Fluorene							CAS #: 86-73-7	
14.623	14.623	(0.000)	VWD1A	342222	15.0000	14.5		
8 Phenanthrene							CAS #: 85-01-8	
15.430	15.430	(0.000)	VWD1A	960365			80.00- 120.00	100.00
15.520	15.520	(0.000)	ADC1A	8045356	15.0000	14.3	670.19-1005.29	837.74
9 Anthracene							CAS #: 120-12-7	
16.150	16.150	(0.000)	VWD1A	2144955	15.0000	15.0	80.00- 120.00	100.00
16.259	16.259	(0.000)	ADC1A	17303735			645.37- 968.06	806.72
10 Fluoranthene							CAS #: 206-44-0	
16.983	16.983	(0.000)	VWD1A	221503	15.0000	14.1		
11 Pyrene							CAS #: 129-00-0	
17.523	17.523	(0.000)	VWD1A	179218	15.0000	12.9	80.00- 120.00	100.00
17.617	17.617	(0.000)	ADC1A	12536744			5596.20-8394.30	6995.25
$ 12 p-Terphenyl-d14 (SURR)							CAS #: 1718-51-0	
18.513	18.513	(0.000)	VWD1A	205560	15.0000	14.7	80.00- 120.00	100.00
18.607	18.607	(0.000)	ADC1A	9819939			3821.73-5732.60	4777.16
13 Benzo(a)Anthracene							CAS #: 56-55-3	
19.306	19.306	(0.000)	VWD1A	533137	15.0000	14.4	80.00- 120.00	100.00
19.402	19.402	(0.000)	ADC1A	8695117			1304.75-1957.12	1630.93
14 Chrysene							CAS #: 218-01-9	
19.696	19.696	(0.000)	VWD1A	723383	15.0000	14.0	80.00- 120.00	100.00(M)
19.820	19.820	(0.000)	ADC1A	18080410			1999.54-2999.31	2499.42
15 Benzo(b)Fluoranthene							CAS #: 205-99-2	
21.110	21.110	(0.000)	VWD1A	585057	15.0000	14.3	80.00- 120.00	100.00(M)
21.207	21.207	(0.000)	ADC1A	757471			103.58- 155.36	129.47
16 Benzo(k)Fluoranthene							CAS #: 207-08-9	
21.726	21.726	(0.000)	VWD1A	443143	15.0000	14.4	80.00- 120.00	100.00
21.825	21.825	(0.000)	ADC1A	1019564			184.06- 276.09	230.08
17 Benzo(a)pyrene							CAS #: 50-32-8	
22.323	22.323	(0.000)	VWD1A	549897			80.00- 120.00	100.00
22.424	22.424	(0.000)	ADC1A	3058182	15.0000	14.2	444.91- 667.36	556.14

RT	EXP RT	DLT RT	SIGNAL	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
18 Dibenz(ah)Anthracene						CAS #: 53-70-3		
23.293	23.293	(0.000)	VWD1A	120386	15.0000	14.6	80.00- 120.00	100.00
23.397	23.397	(0.000)	ADC1A	845097			561.59- 842.39	701.99
19 Benzo(ghi)Perylene						CAS #: 191-24-2		
24.033	24.033	(0.000)	VWD1A	195611	15.0000	13.7	80.00- 120.00	100.00
24.135	24.135	(0.000)	ADC1A	741766			303.36- 455.05	379.20
20 Indeno(123cd)Pyrene						CAS #: 193-39-5		
24.480	24.480	(0.000)	VWD1A	507038	15.0000	13.8		

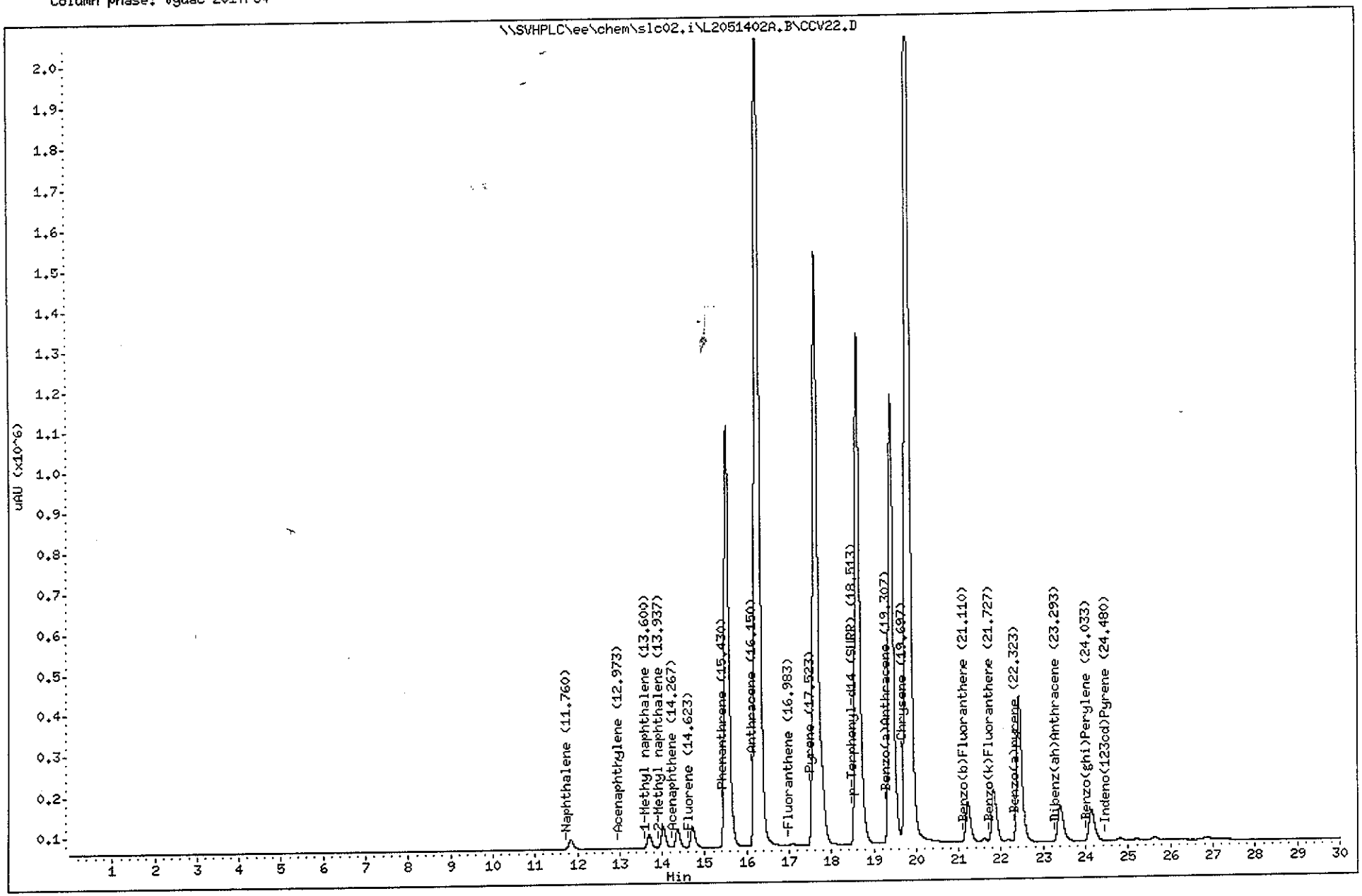
QC Flag Legend

M - Compound response manually integrated.

Data File: \\SVHPLC\ee\chem\slc02.i\L2051402A.B\CCV22.D
Date : 14-MAY-2002 15:40
Client ID: CCV22
Sample Info: SV4942
Purge Volume: 1000.0
Column phase: Vydac 201TP54

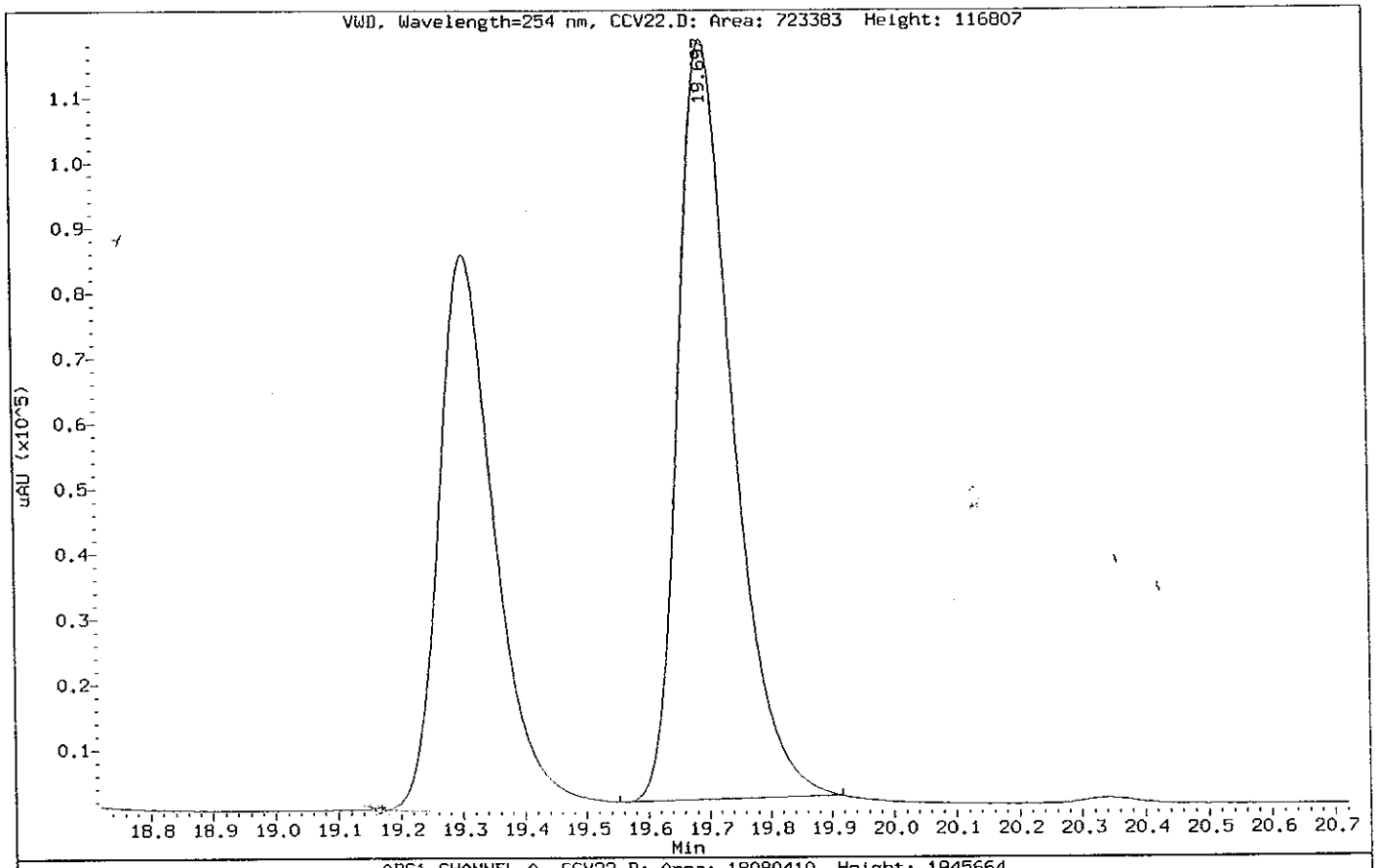
Instrument: slc02.i

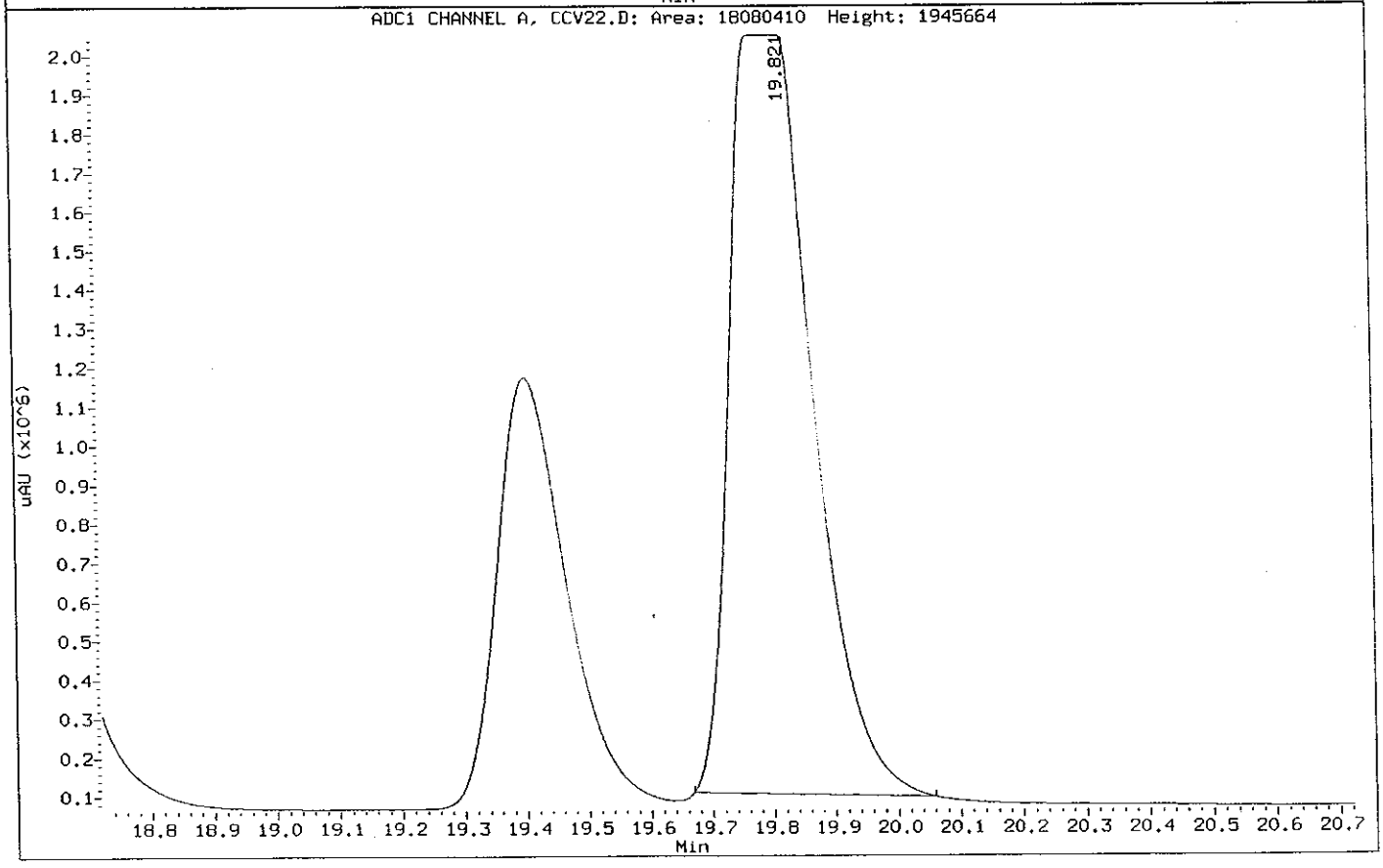
Operator: ROOD
Column diameter: 4.60



Data File: \\SVHPLC\ee\chem\slc02.i\L2051402A.B\CCV22.D
Injection Date: 14-MAY-2002 15:40
Instrument: slc02.i
Client Sample ID: CCV22

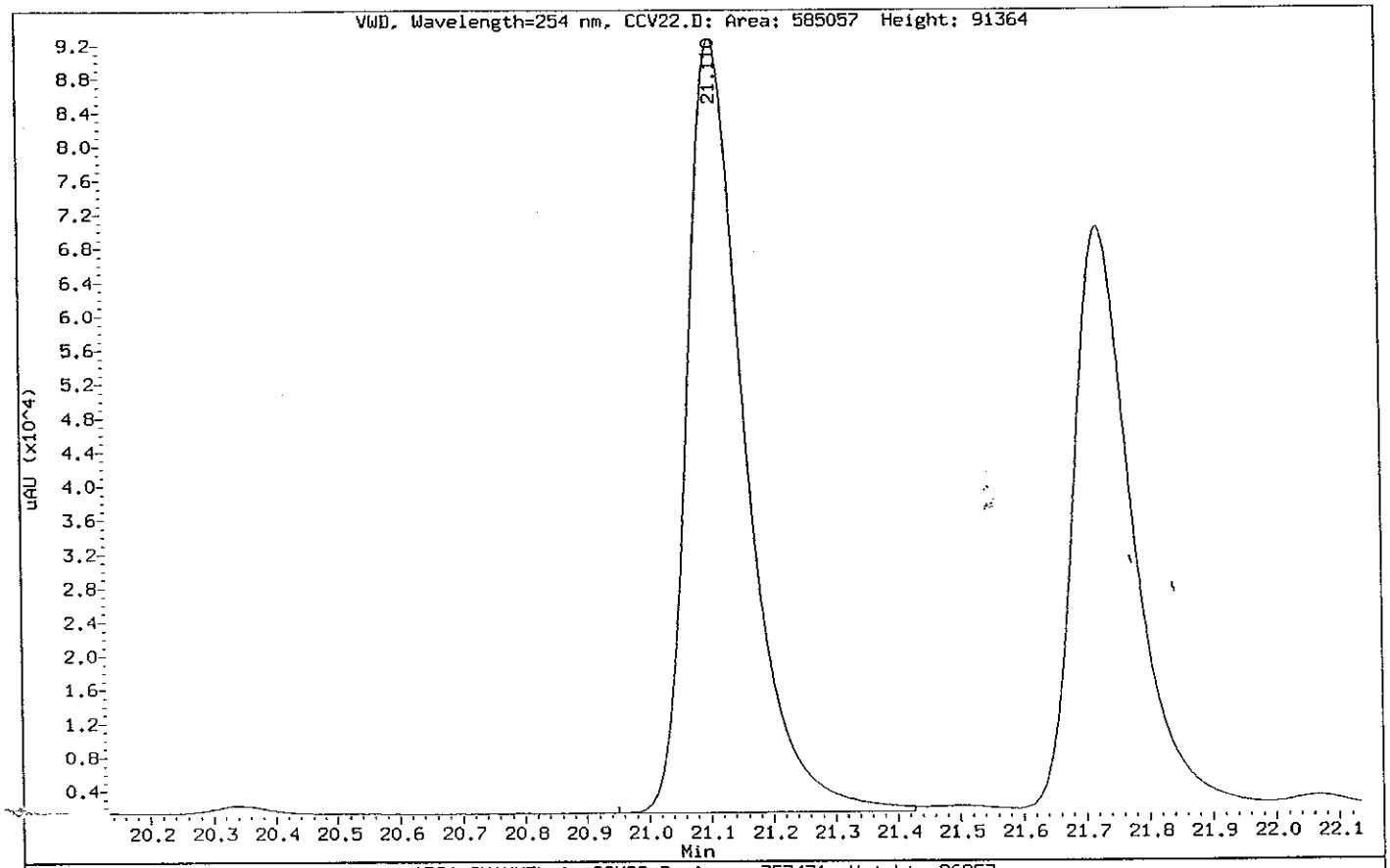
Compound: Chrysene
CAS Number: 218-01-9

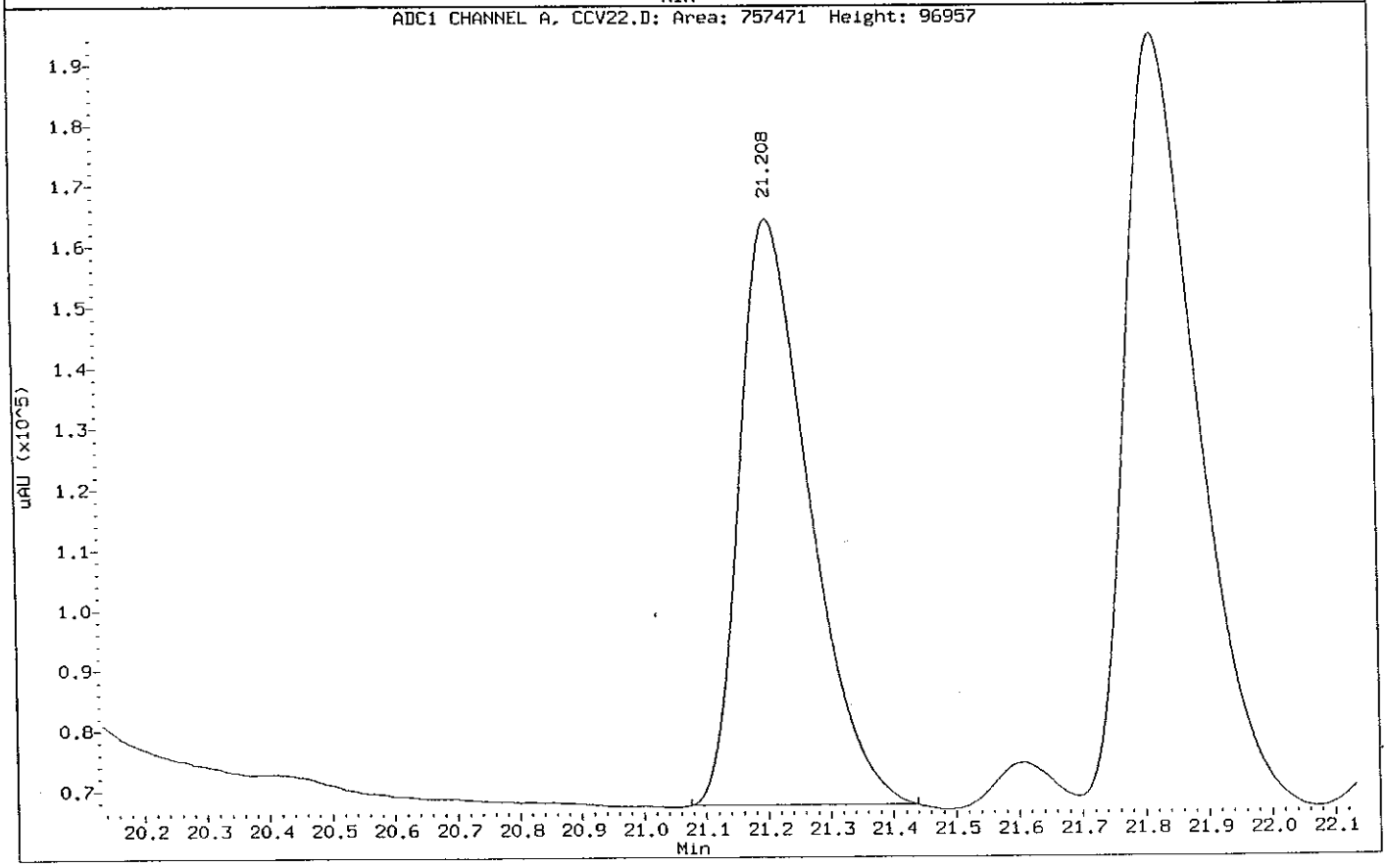




Data File: \\SVHPLC\ee\chem\slc02.i\L2051402A.B\CCV22.D
Injection Date: 14-MAY-2002 15:40
Instrument: slc02.i
Client Sample ID: CCV22

Compound: Benzo(b)Fluoranthene
CAS Number: 205-99-2





PEL Laboratories, Inc.

Data file : \\SVHPLC\ee\chem\slc02.i\L2051402A.B\514LCS.D
Lab Smp Id: 69114 Client Smp ID: 514LCS
Inj Date : 14-MAY-2002 18:27
Operator : ROOD Inst ID: slc02.i
Smp Info : 69114
Misc Info :
Comment :
Method : \\SVHPLC\ee\chem\slc02.i\L2051402A.B\8310AE.m
Meth Date : 17-May-2002 13:47 tscott Quant Type: ESTD
Cal Date : 22-APR-2002 15:32 Cal File: 30STD.D
Als bottle: 2 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.04 Sample Matrix: WATER
Processing Host: SVHPLC

Concentration Formula: Amt * DF * 1/(Vo/1000)*Vt

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume Extracted
Vt	1.000	

RT	EXP RT	DLT RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/l)	TARGET RANGE	RATIO
2 Naphthalene						CAS #: 91-20-3		
11.720	11.760	(-0.040)	VWD1A	36966	7.08852	7.1	80.00- 120.00	100.00
11.810	11.849	(-0.039)	ADC1A	94841			215.71- 323.56	256.56
3 Acenaphthylene						CAS #: 208-96-8		
12.943	12.973	(-0.030)	VWD1A	29623	7.54091	7.5		
4 1-Methyl naphthalene						CAS #: 90-12-0		
13.573	13.600	(-0.027)	VWD1A	23636			80.00- 120.00	100.00
13.668	13.690	(-0.022)	ADC1A	119247	6.71518	6.7	423.95- 635.92	504.51
5 2-Methyl naphthalene						CAS #: 91-57-6		
13.910	13.936	(-0.026)	VWD1A	33330	7.60390	7.6	80.00- 120.00	100.00
14.001	14.024	(-0.023)	ADC1A	178530			456.08- 684.12	535.64

RT	EXP RT	DLT RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/l)	TARGET RANGE	RATIO
6 Acenaphthene						CAS #: 83-32-9		
14.243	14.266	(-0.023)	VWD1A	15741			80.00- 120.00	100.00
14.335	14.359	(-0.024)	ADC1A	170943	7.35509	7.4	922.47-1383.71	1085.97
7 Fluorene						CAS #: 86-73-7		
14.600	14.623	(-0.023)	VWD1A	196788	8.32112	8.3		
8 Phenanthrene						CAS #: 85-01-8		
15.410	15.430	(-0.020)	VWD1A	592940			80.00- 120.00	100.00
15.500	15.520	(-0.020)	ADC1A	5187783	9.21452	9.2	670.19-1005.29	874.93
9 Anthracene						CAS #: 120-12-7		
16.136	16.150	(-0.014)	VWD1A	1301898	9.12329	9.1	80.00- 120.00	100.00
16.230	16.259	(-0.029)	ADC1A	10722918			645.37- 968.06	823.64
10 Fluoranthene						CAS #: 206-44-0		
16.966	16.983	(-0.017)	VWD1A	134259	8.55117	8.6		
11 Pyrene						CAS #: 129-00-0		
17.510	17.523	(-0.013)	VWD1A	106261	7.63688	7.6	80.00- 120.00	100.00
17.605	17.617	(-0.012)	ADC1A	8821152			5596.20-8394.30	8301.40
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.496	18.513	(-0.017)	VWD1A	249635	17.8646	17.9	80.00- 120.00	100.00
18.591	18.607	(-0.016)	ADC1A	11967770			3821.73-5732.60	4794.11
13 Benzo(a)Anthracene						CAS #: 56-55-3		
19.296	19.306	(-0.010)	VWD1A	330155	8.94152	8.9	80.00- 120.00	100.00(M)
19.391	19.402	(-0.011)	ADC1A	5414030			1304.75-1957.12	1639.84
14 Chrysene						CAS #: 218-01-9		
19.686	19.696	(-0.010)	VWD1A	463613	8.97542	9.0	80.00- 120.00	100.00
19.783	19.820	(-0.037)	ADC1A	13459157			1999.54-2999.31	2903.10
15 Benzo(b)Fluoranthene						CAS #: 205-99-2		
21.100	21.110	(-0.010)	VWD1A	361247	8.85582	8.8	80.00- 120.00	100.00(M)
21.200	21.207	(-0.007)	ADC1A	439248			103.58- 155.36	121.59
16 Benzo(k)Fluoranthene						CAS #: 207-08-9		
21.716	21.726	(-0.010)	VWD1A	276460	8.96627	9.0	80.00- 120.00	100.00
21.818	21.825	(-0.007)	ADC1A	615579			184.06- 276.09	222.66
17 Benzo(a)pyrene						CAS #: 50-32-8		
22.316	22.323	(-0.007)	VWD1A	334401			80.00- 120.00	100.00
22.416	22.424	(-0.008)	ADC1A	1918163	8.91374	8.9	444.91- 667.36	573.61

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		
23.290	23.293	(-0.003)	VWD1A	82278	9.94858	9.9	80.00- 120.00	100.00
23.395	23.397	(-0.002)	ADC1A	504983			561.59- 842.39	613.75
19 Benzo(ghi)Perylene						CAS #: 191-24-2		
24.026	24.033	(-0.007)	VWD1A	116318	8.15192	8.2	80.00- 120.00	100.00
24.130	24.135	(-0.005)	ADC1A	463594			303.36- 455.05	398.56
20 Indeno(123cd)Pyrene						CAS #: 193-39-5		
24.476	24.480	(-0.004)	VWD1A	299284	8.12398	8.1		

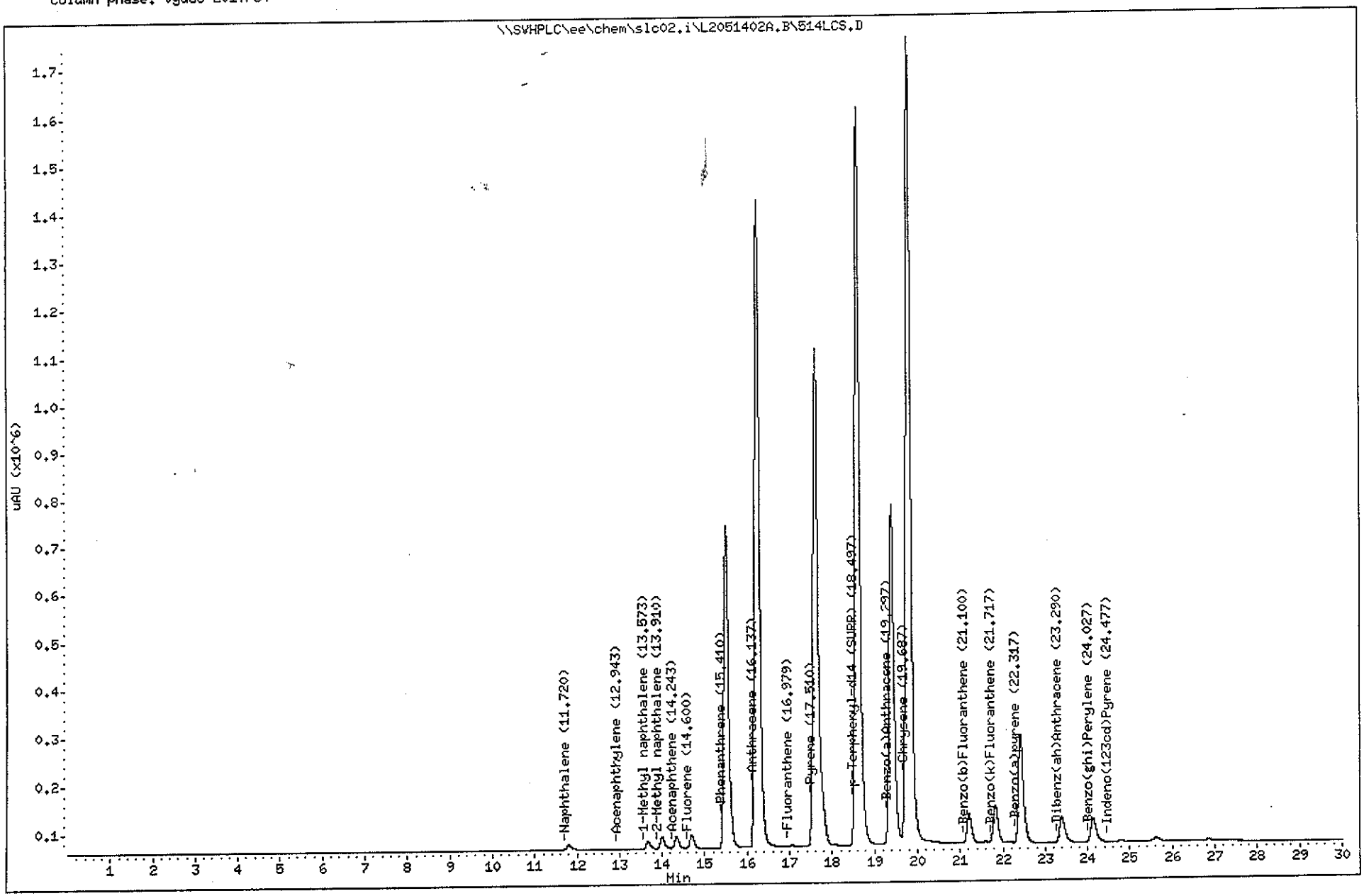
QC Flag Legend

M - Compound response manually integrated.

Data File: \\SVHPLC\ee\chem\slc02.i\L2051402A.B\514LCS.D
Date : 14-MAY-2002 18:27
Client ID: 514LCS
Sample Info: 69114
Purge Volume: 1000.0
Column phase: Vydac 201TP54

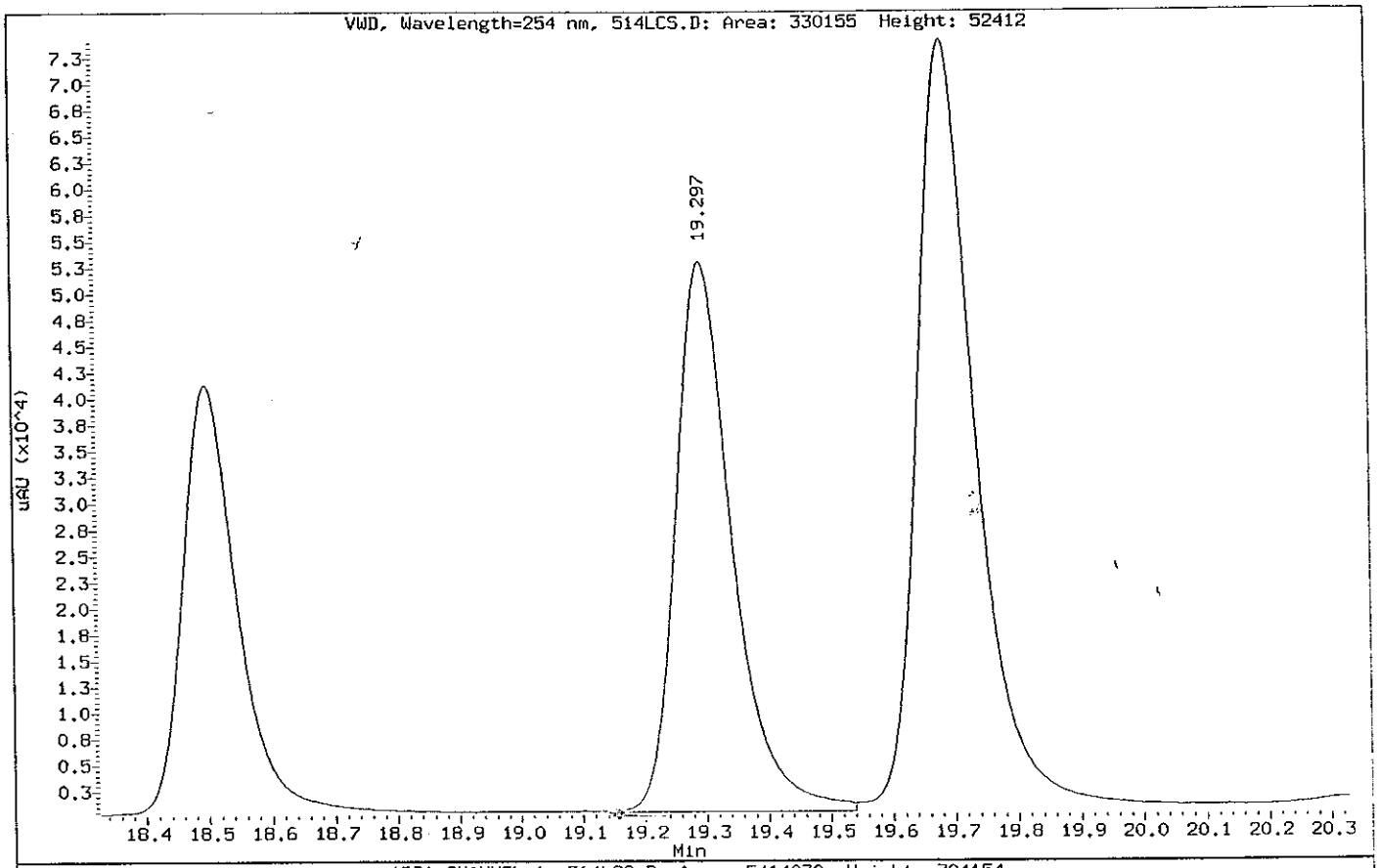
Instrument: slc02.i

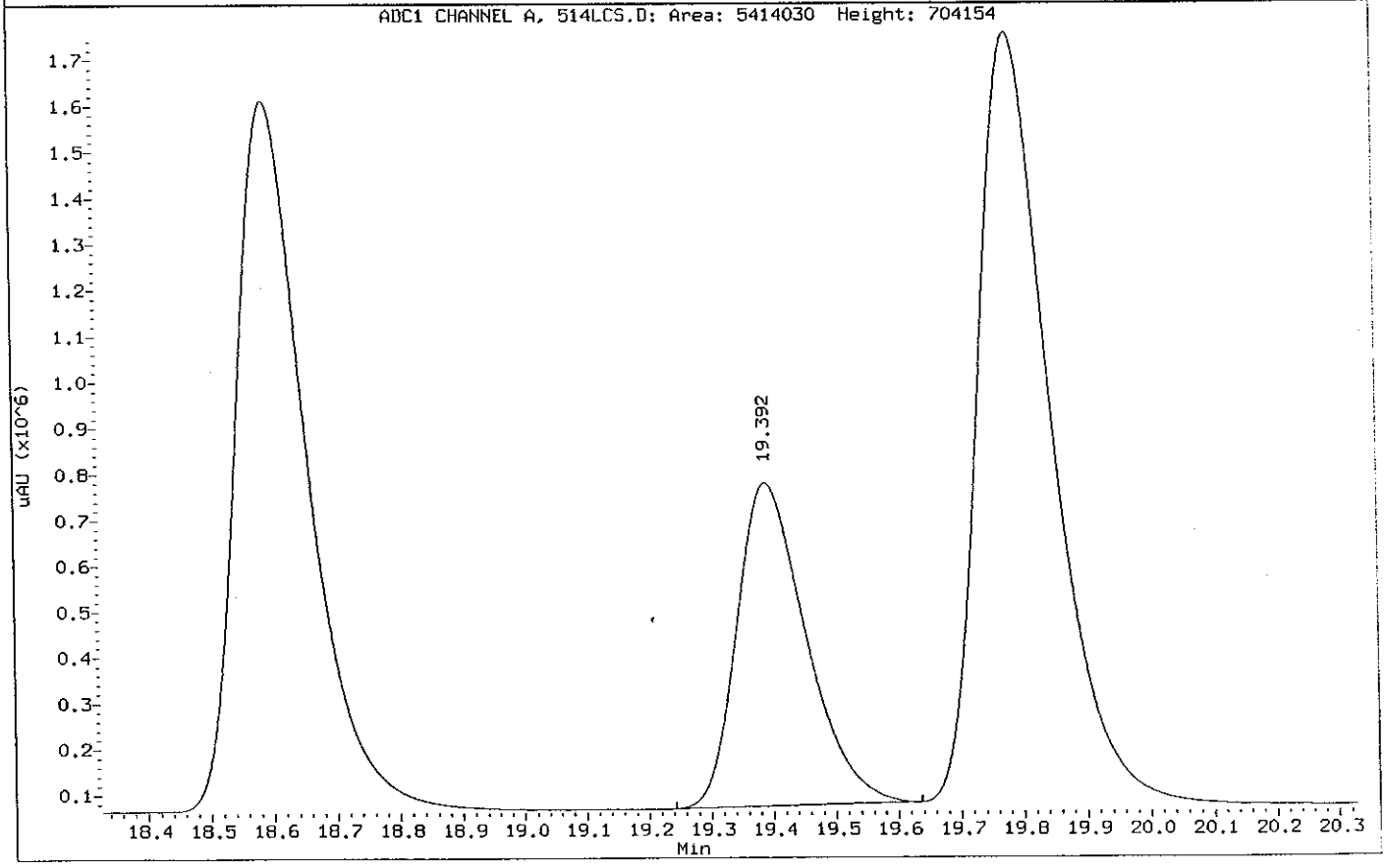
Operator: ROOD
Column diameter: 4.60



Data File: \\SVHPLC\ee\chem\slc02.i\L2051402A.B\514LCS.D
Injection Date: 14-MAY-2002 18:27
Instrument: slc02.i
Client Sample ID: 514LCS

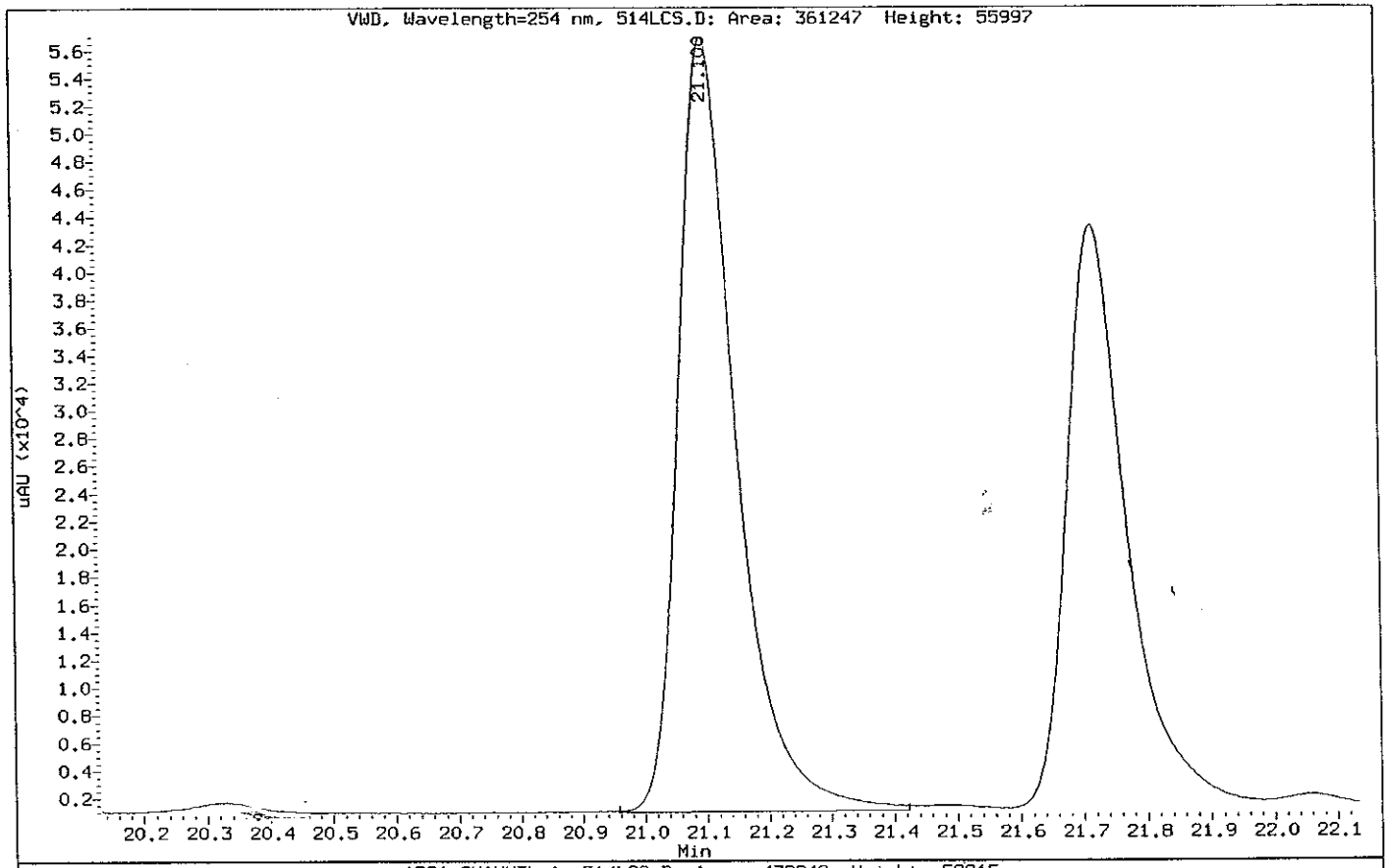
Compound: Benzo(a)Anthracene
CAS Number: 56-55-3

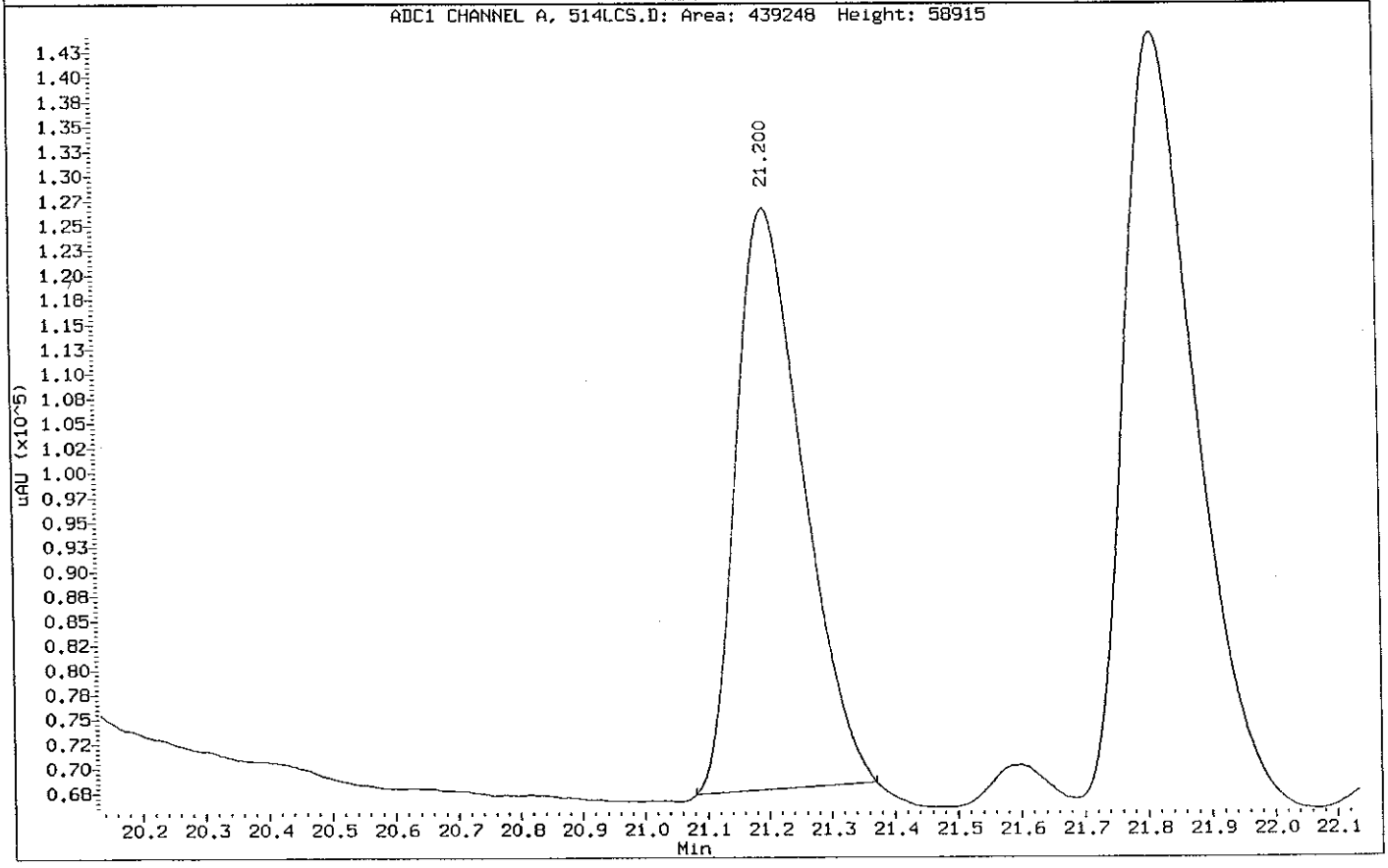




Data File: \\SVHPLC\ee\chem\slc02.i\L2051402A.B\514LCS.D
Injection Date: 14-MAY-2002 18:27
Instrument: slc02.i
Client Sample ID: 514LCS

Compound: Benzo(b)Fluoranthene
CAS Number: 205-99-2





PEL Laboratories, Inc.

Data file : \\SVHPLC\ee\chem\slc02.i\L2051402A.B\29-1.D
Lab Smp Id: 220402901 Client Smp ID: 062CEF432N
Inj Date : 14-MAY-2002 21:20
Operator : ROOD Inst ID: slc02.i
Smp Info : 220402901
Misc Info :
Comment :
Method : \\SVHPLC\ee\chem\slc02.i\L2051402A.B\8310AE.m
Meth Date : 17-May-2002 13:15 tscott Quant Type: ESTD
Cal Date : 22-APR-2002 15:32 Cal File: 30STD.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: lowcalwrl.sub
Target Version: 4.04 Sample Matrix: WATER
Processing Host: SVHPLC

Concentration Formula: Amt * DF * 1/(Vo/1000)*Vt

Name	Value	Description
DF	1.000	Dilution Factor
Vo	920.000	Volume Extracted
Vt	1.000	

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	SIGNAL	RESPONSE	(ug/ml)	(ug/l)	TARGET RANGE	RATIO
2 Naphthalene							CAS #: 91-20-3	
11.736	11.753	(-0.017)	VWD1A	18406	3.52949	3.8	80.00- 120.00	100.00(M)
11.829	11.753	(0.076)	ADC1A	51354			215.34- 323.02	279.01
3 Acenaphthylene							CAS #: 208-96-8	
12.933	12.963	(-0.030)	VWD1A	12993	3.30753	3.6		
4 1-Methyl naphthalene							CAS #: 90-12-0	
13.580	13.593	(-0.013)	VWD1A	17005			80.00- 120.00	100.00(Q)
13.669	13.593	(0.076)	ADC1A	60966	3.43319	3.7	432.20- 648.30	358.52
5 2-Methyl naphthalene							CAS #: 91-57-6	
13.916	13.926	(-0.010)	VWD1A	22844	5.21162	5.7	80.00- 120.00	100.00(Q)
14.001	13.926	(0.075)	ADC1A	181059			458.09- 687.14	792.59

RT	EXP RT	DLT RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/l)	TARGET RANGE	RATIO
7 Fluorene						CAS #: 86-73-7		
14.606	14.613	(-0.007)	VWD1A	12067	0.51025	0.55		
8 Phenanthrene						CAS #: 85-01-8		
15.413	15.416	(-0.003)	VWD1A	30627			80.00- 120.00	100.00
15.502	15.416	(0.086)	ADC1A	229716	0.40802	0.44	703.89-1055.83	750.04
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.500	18.496	(0.004)	VWD1A	238792	17.0887	18.6	80.00- 120.00	100.00
18.592	18.496	(0.096)	ADC1A	11554473			3824.96-5737.44	4838.72

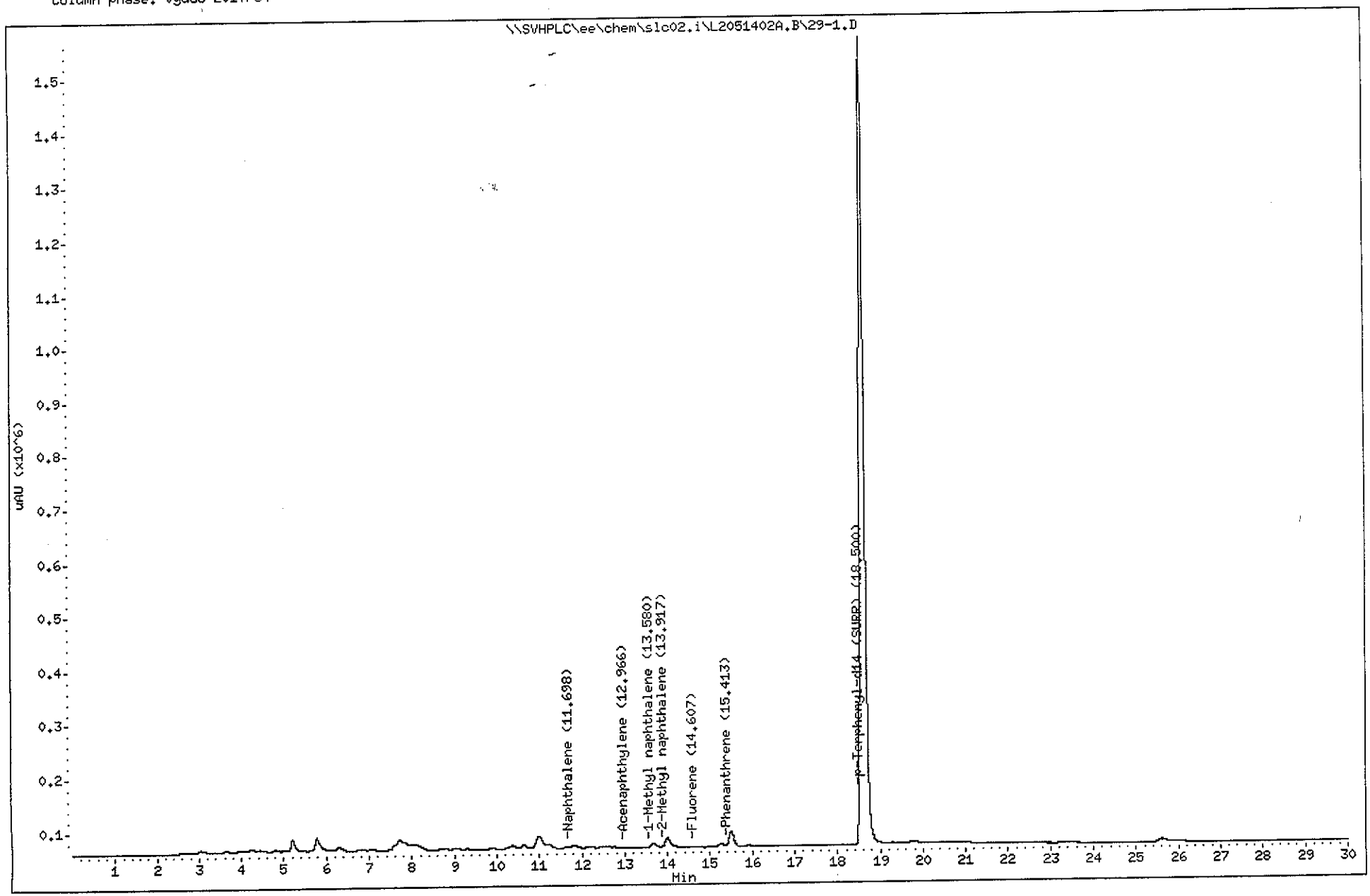
QC Flag Legend

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

Data File: \\SVHPLC\ee\chem\slc02.i\L2051402A.B\29-1.D
Date : 14-MAY-2002 21:20
Client ID: 062CEF432N
Sample Info: 220402901
Purge Volume: 920.0
Column phase: Vydac 201TP54

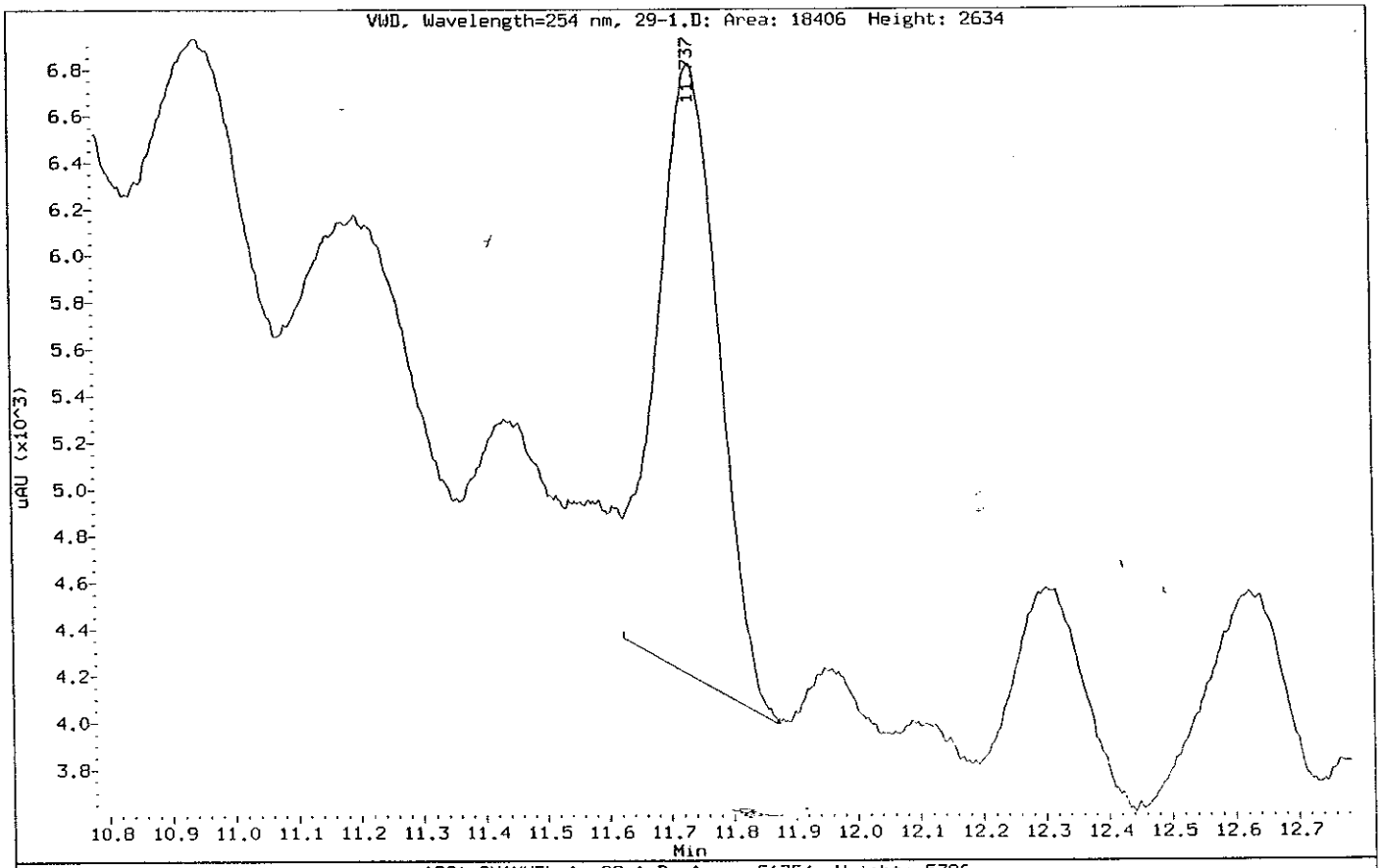
Instrument: slc02.i

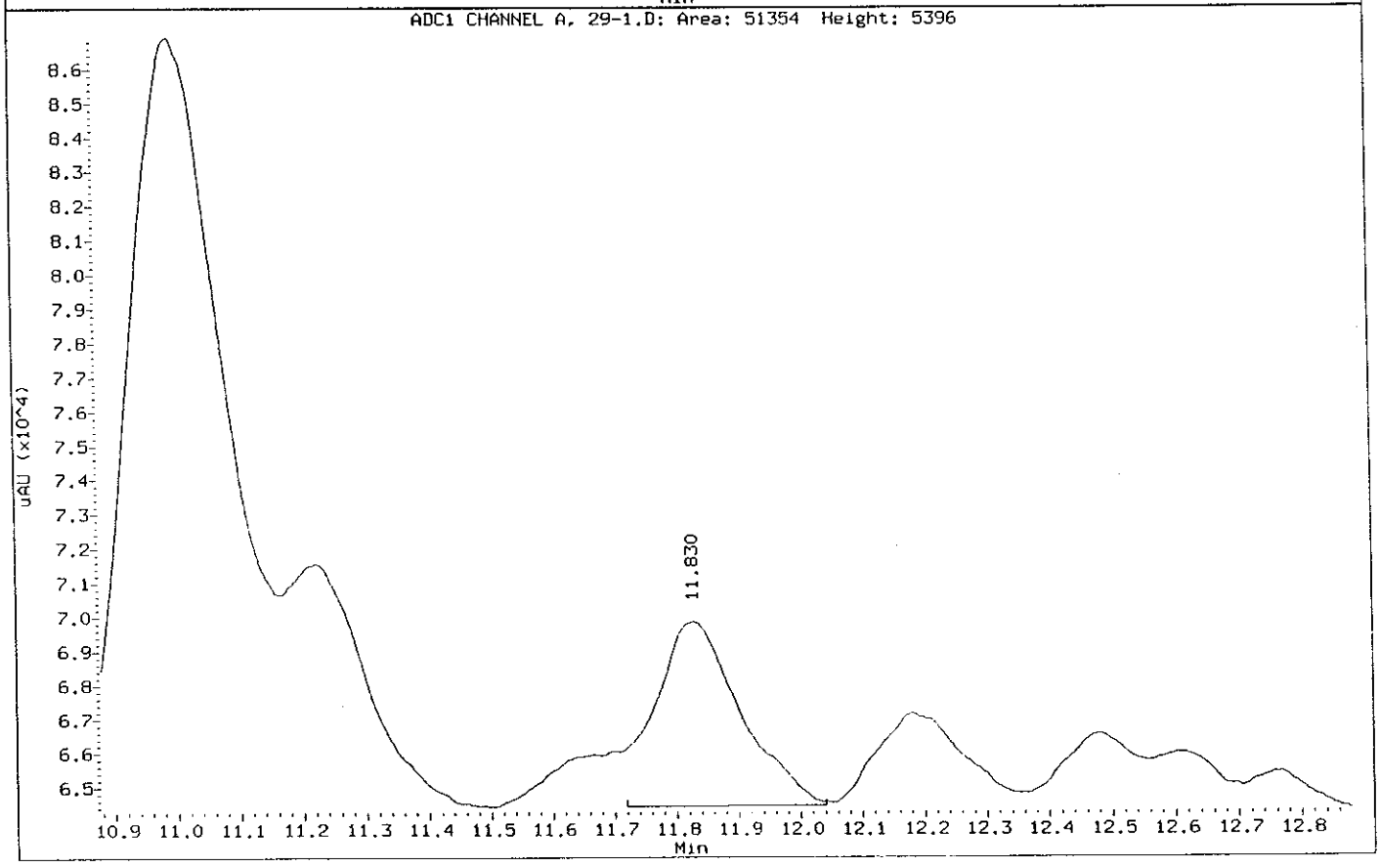
Operator: ROOD
Column diameter: 4.60



Data File: \\SVHPLC\ee\chem\slc02.i\L2051402A.B\29-1.D
Injection Date: 14-MAY-2002 21:20
Instrument: slc02.i
Client Sample ID: 062CEF432N

Compound: Naphthalene
CAS Number: 91-20-3





PEL Laboratories, Inc.

Data file : \\SVHPLC\ee\chem\slc02.i\L2051402A.B\29-2MS.D
Lab Smp Id: 220402902 Client Smp ID: 062CEF432NMS
Inj Date : 14-MAY-2002 21:54
Operator : ROOD Inst ID: slc02.i
Smp Info : 220402902
Misc Info :
Comment :
Method : \\SVHPLC\ee\chem\slc02.i\L2051402A.B\8310AE.m
Meth Date : 17-May-2002 13:47 tscott Quant Type: ESTD
Cal Date : 22-APR-2002 15:32 Cal File: 30STD.D
Als bottle: 8 QC Sample: MS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.04 Sample Matrix: WATER
Processing Host: SVHPLC

Concentration Formula: Amt * DF * 1/(Vo/1000)*Vt

Name	Value	Description
DF	1.000	Dilution Factor
Vo	898.000	Volume Extracted
Vt	1.000	

RT	EXP RT	DLT RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	CONCENTRATIONS FINAL (ug/l)	TARGET RANGE	RATIO
2 Naphthalene						CAS #: 91-20-3		
11.743	11.760	(-0.017)	VWD1A	39405	7.55622	8.4	80.00- 120.00	100.00(Q)
11.829	11.849	(-0.020)	ADC1A	134718			215.71- 323.56	341.88
3 Acenaphthylene						CAS #: 208-96-8		
12.956	12.973	(-0.017)	VWD1A	34419	8.76179	9.8		
4 1-Methyl naphthalene						CAS #: 90-12-0		
13.590	13.600	(-0.010)	VWD1A	33391			80.00- 120.00	100.00
13.679	13.690	(-0.011)	ADC1A	161985	9.12189	10.2	423.95- 635.92	485.12
5 2-Methyl naphthalene						CAS #: 91-57-6		
13.920	13.936	(-0.016)	VWD1A	46955	10.7123	11.9	80.00- 120.00	100.00(QR)
14.007	14.024	(-0.017)	ADC1A	333876			456.08- 684.12	711.06

RT	EXP RT	DLT RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/l)	TARGET RANGE	RATIO
6 Acenaphthene						CAS #: 83-32-9		
14.253	14.266	(-0.013)	VWD1A	15456			80.00- 120.00	100.00(Q)
14.344	14.359	(-0.015)	ADC1A	138205	5.94648	6.6	922.47-1383.71	894.18
7 Fluorene						CAS #: 86-73-7		
14.606	14.623	(-0.017)	VWD1A	181185	7.66135	8.5		
8 Phenanthrene						CAS #: 85-01-8		
15.410	15.430	(-0.020)	VWD1A	554385			80.00- 120.00	100.00
15.502	15.520	(-0.018)	ADC1A	4799223	8.52436	9.5	670.19-1005.29	865.68
9 Anthracene						CAS #: 120-12-7		
16.133	16.150	(-0.017)	VWD1A	1210062	8.47974	9.4	80.00- 120.00	100.00(M)
16.225	16.259	(-0.034)	ADC1A	9817893			645.37- 968.06	811.35
10 Fluoranthene						CAS #: 206-44-0		
16.963	16.983	(-0.020)	VWD1A	124920	7.95636	8.9		
11 Pyrene						CAS #: 129-00-0		
17.506	17.523	(-0.017)	VWD1A	101331	7.28257	8.1	80.00- 120.00	100.00
17.599	17.617	(-0.018)	ADC1A	7936600			5596.20-8394.30	7832.35
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.496	18.513	(-0.017)	VWD1A	229726	16.4399	18.3	80.00- 120.00	100.00
18.590	18.607	(-0.017)	ADC1A	11152131			3821.73-5732.60	4854.54
13 Benzo(a)Anthracene						CAS #: 56-55-3		
19.293	19.306	(-0.013)	VWD1A	306072	8.28928	9.2	80.00- 120.00	100.00
19.389	19.402	(-0.013)	ADC1A	5121919			1304.75-1957.12	1673.44
14 Chrysene						CAS #: 218-01-9		
19.683	19.696	(-0.013)	VWD1A	428809	8.30162	9.2	80.00- 120.00	100.00
19.782	19.820	(-0.038)	ADC1A	12351275			1999.54-2999.31	2880.37
15 Benzo(b)Fluoranthene						CAS #: 205-99-2		
21.100	21.110	(-0.010)	VWD1A	324389	7.95226	8.8	80.00- 120.00	100.00(M)
21.197	21.207	(-0.010)	ADC1A	376400			103.58- 155.36	116.03
16 Benzo(k)Fluoranthene						CAS #: 207-08-9		
21.720	21.726	(-0.006)	VWD1A	251551	8.15841	9.1	80.00- 120.00	100.00
21.819	21.825	(-0.006)	ADC1A	563609			184.06- 276.09	224.05
17 Benzo(a)pyrene						CAS #: 50-32-8		
22.313	22.323	(-0.010)	VWD1A	312274			80.00- 120.00	100.00
22.415	22.424	(-0.009)	ADC1A	1753712	8.14953	9.1	444.91- 667.36	561.59

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		
23.286	23.293	(-0.007)	VWD1A	74019	8.94995	10.0	80.00- 120.00	100.00
23.390	23.397	(-0.007)	ADC1A	425528			561.59- 842.39	574.89
19 Benzo(ghi)Perylene						CAS #: 191-24-2		
24.023	24.033	(-0.010)	VWD1A	102039	7.15121	8.0	80.00- 120.00	100.00
24.129	24.135	(-0.006)	ADC1A	395413			303.36- 455.05	387.51
20 Indeno(123cd)Pyrene						CAS #: 193-39-5		
24.480	24.480	(0.000)	VWD1A	262706	7.13108	7.9		

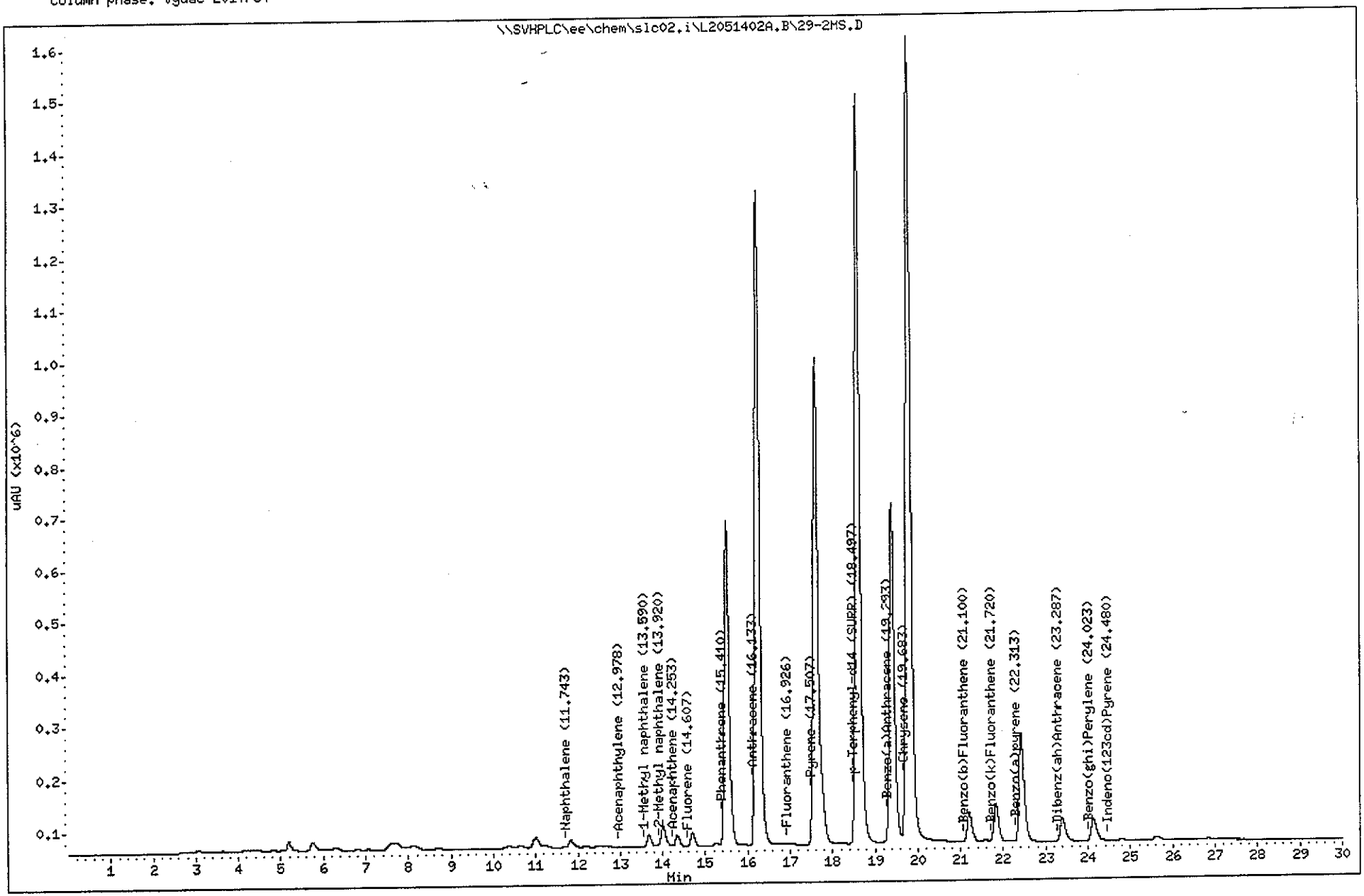
QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\SVHPLC\ee\chem\slc02.i\L2051402A.B\29-2MS.D
Date : 14-MAY-2002 21:54
Client ID: 062CEF432NMS
Sample Info: 220402902
Purge Volume: 898.0
Column phase: Vydac 201TP54

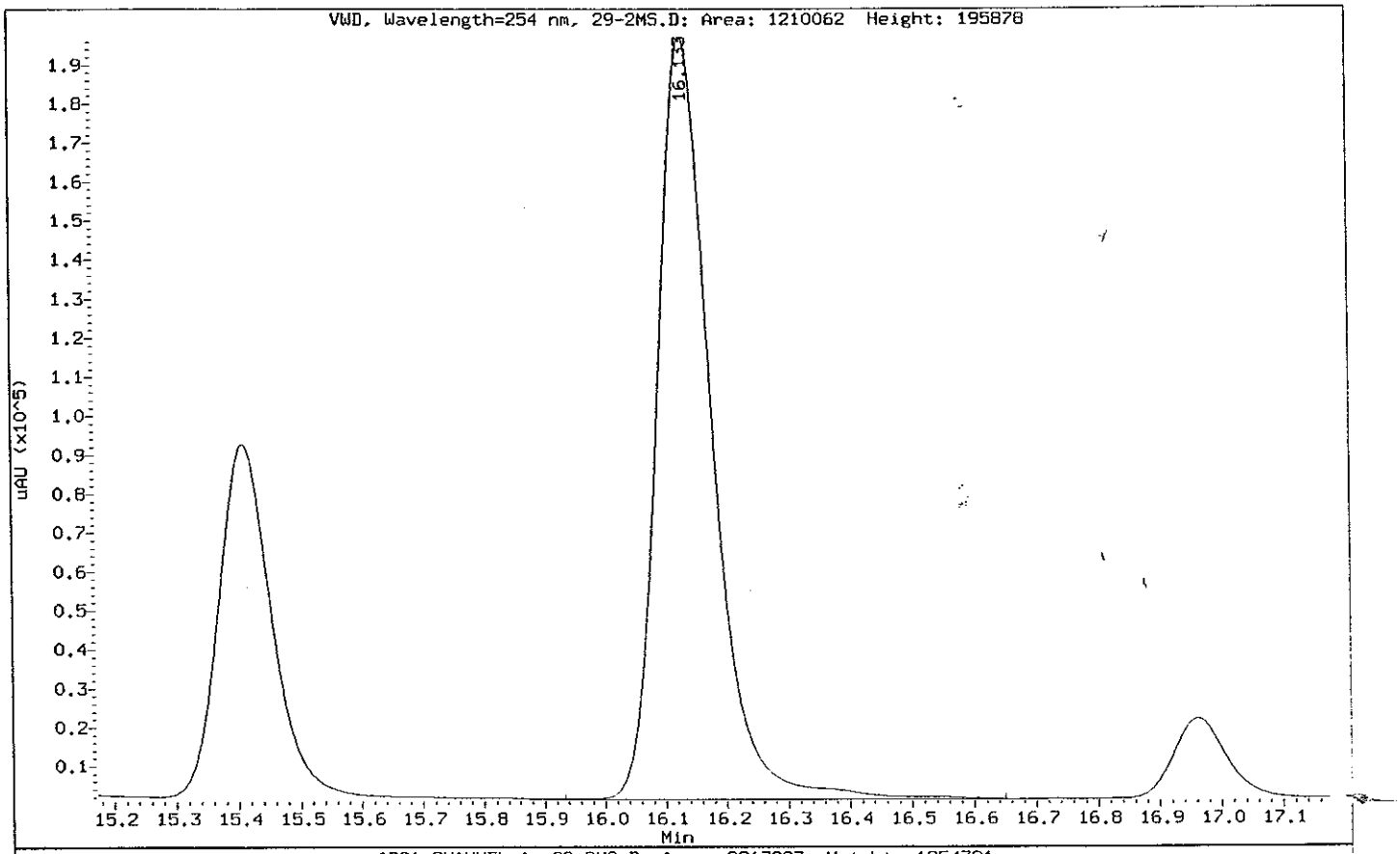
Instrument: slc02.i

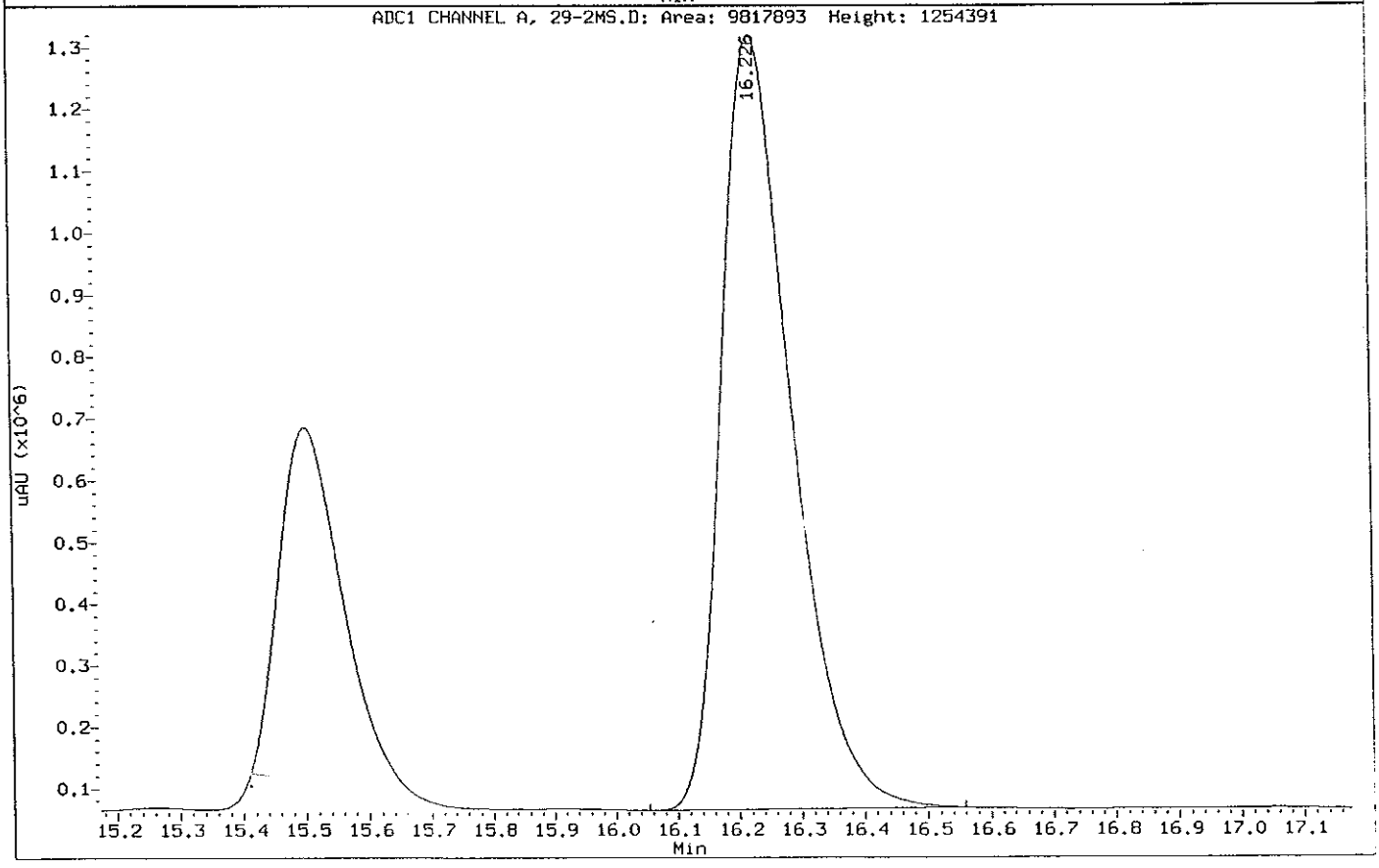
Operator: ROOD
Column diameter: 4.60



Data File: \\SVHPLC\ee\chem\slc02.i\L2051402A.B\29-2MS.D
Injection Date: 14-MAY-2002 21:54
Instrument: slc02.i
Client Sample ID: 062CEF432NMS

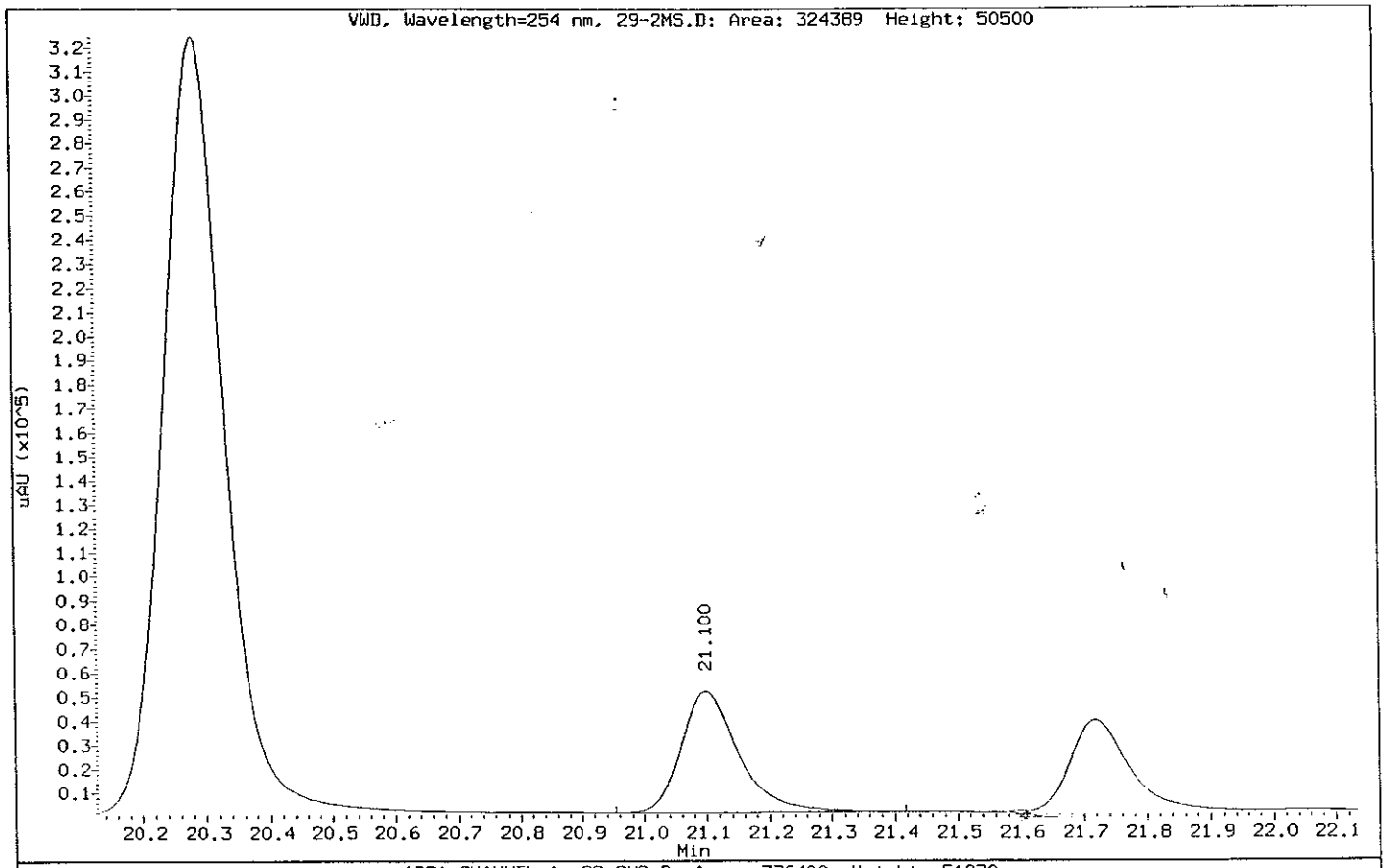
Compound: Anthracene
CAS Number: 120-12-7

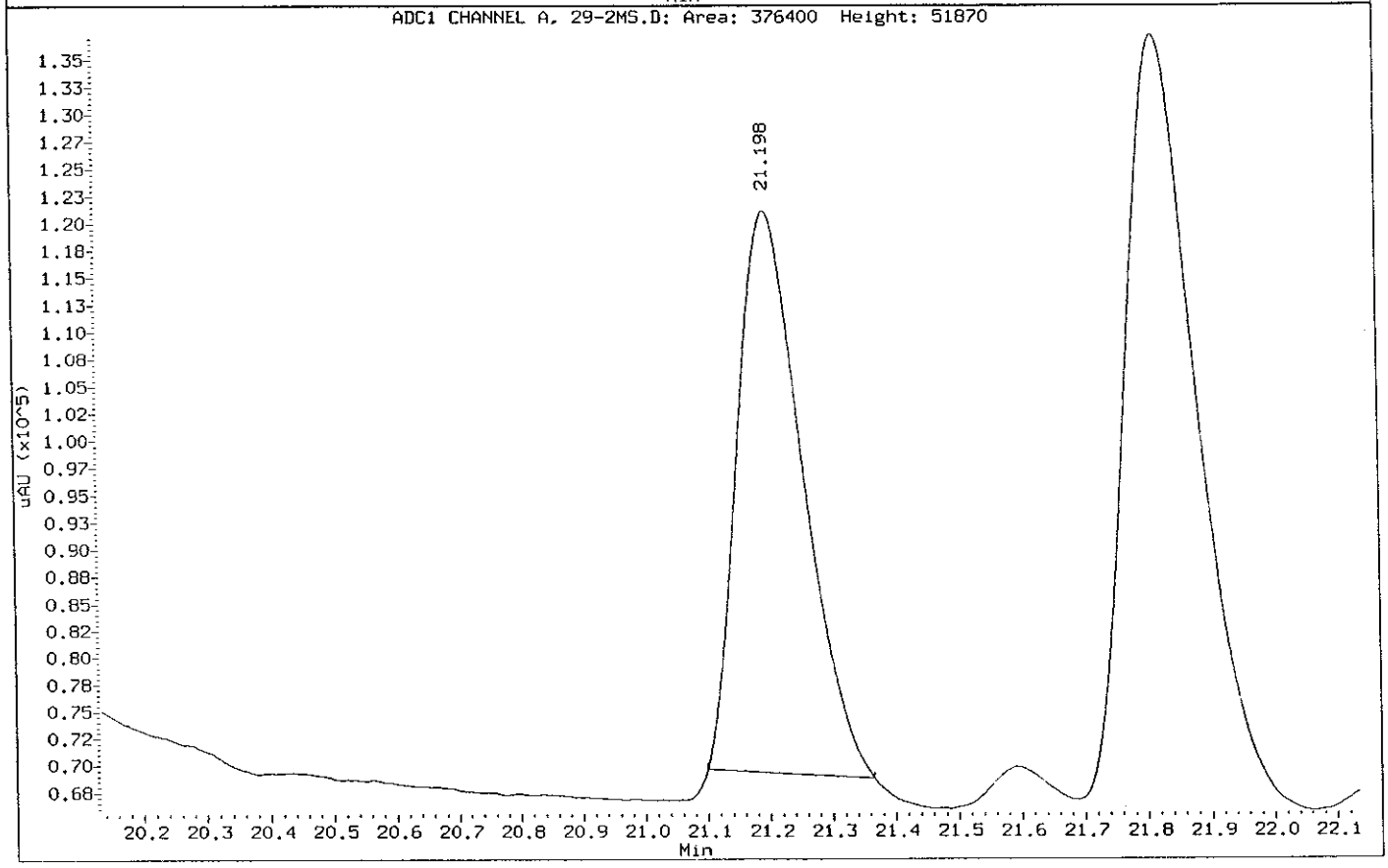




Data File: \\SVHPLC\ee\chem\slc02.i\L2051402A.B\29-2MS.D
Injection Date: 14-MAY-2002 21:54
Instrument: slc02.i
Client Sample ID: 062CEF432NMS

Compound: Benzo(b)Fluoranthene
CAS Number: 205-99-2





PEL Laboratories, Inc.

Data file : \\SVHPLC\ee\chem\slc02.i\L2051402A.B\29-3MSD.D
Lab Smp Id: 220402903 Client Smp ID: 062CEF432NMSD
Inj Date : 14-MAY-2002 22:29
Operator : ROOD Inst ID: slc02.i
Smp Info : 220402903
Misc Info :
Comment :
Method : \\SVHPLC\ee\chem\slc02.i\L2051402A.B\8310AE.m
Meth Date : 17-May-2002 13:47 tscott Quant Type: ESTD
Cal Date : 22-APR-2002 15:32 Cal File: 30STD.D
Als bottle: 9 QC Sample: MSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.04 Sample Matrix: WATER
Processing Host: SVHPLC

Concentration Formula: Amt * DF * 1/(Vo/1000)*Vt

Name	Value	Description
DF	1.000	Dilution Factor
Vo	952.000	Volume Extracted
Vt	1.000	

						CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	SIGNAL	RESPONSE		(ug/ml)	(ug/l)	TARGET RANGE	RATIO
2 Naphthalene							CAS #: 91-20-3		
11.740	11.760	(-0.020)	VWD1A	43603	8.36122	8.8		80.00- 120.00	100.00(QR)
11.837	11.849	(-0.012)	ADC1A	150846				215.71- 323.56	345.95
3 Acenaphthylene							CAS #: 208-96-8		
12.956	12.973	(-0.017)	VWD1A	41321	10.5188	11.0			(R)
4 1-Methyl naphthalene							CAS #: 90-12-0		
13.586	13.600	(-0.014)	VWD1A	36074				80.00- 120.00	100.00(R)
13.672	13.690	(-0.018)	ADC1A	179187	10.0906	10.6		423.95- 635.92	496.72
5 2-Methyl naphthalene							CAS #: 91-57-6		
13.920	13.936	(-0.016)	VWD1A	50012	11.4097	12.0		80.00- 120.00	100.00(R)
14.004	14.024	(-0.020)	ADC1A	338547				456.08- 684.12	676.93

RT	EXP RT	DLT RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/l)	TARGET RANGE	RATIO
6 Acenaphthene						CAS #: 83-32-9		
14.253	14.266	(-0.013)	VWD1A	16655			80.00- 120.00	100.00(Q)
14.342	14.359	(-0.017)	ADC1A	149168	6.41818	6.7	922.47-1383.71	895.63
7 Fluorene						CAS #: 86-73-7		
14.606	14.623	(-0.017)	VWD1A	188283	7.96149	8.4		
8 Phenanthrene						CAS #: 85-01-8		
15.410	15.430	(-0.020)	VWD1A	577263			80.00- 120.00	100.00
15.499	15.520	(-0.021)	ADC1A	4996735	8.87518	9.3	670.19-1005.29	865.59
9 Anthracene						CAS #: 120-12-7		
16.133	16.150	(-0.017)	VWD1A	1245452	8.72774	9.2	80.00- 120.00	100.00
16.226	16.259	(-0.033)	ADC1A	10215535			645.37- 968.06	820.23
10 Fluoranthene						CAS #: 206-44-0		
16.963	16.983	(-0.020)	VWD1A	127489	8.11998	8.5		
11 Pyrene						CAS #: 129-00-0		
17.506	17.523	(-0.017)	VWD1A	103072	7.40769	7.8	80.00- 120.00	100.00(M)
17.599	17.617	(-0.018)	ADC1A	7912960			5596.20-8394.30	7677.12
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.493	18.513	(-0.020)	VWD1A	233964	16.7432	17.6	80.00- 120.00	100.00
18.587	18.607	(-0.020)	ADC1A	11309173			3821.73-5732.60	4833.72
13 Benzo(a)Anthracene						CAS #: 56-55-3		
19.293	19.306	(-0.013)	VWD1A	310248	8.40238	8.8	80.00- 120.00	100.00
19.389	19.402	(-0.013)	ADC1A	5188032			1304.75-1957.12	1672.22
14 Chrysene						CAS #: 218-01-9		
19.683	19.696	(-0.013)	VWD1A	435046	8.42237	8.8	80.00- 120.00	100.00
19.781	19.820	(-0.039)	ADC1A	12507174			1999.54-2999.31	2874.91
15 Benzo(b)Fluoranthene						CAS #: 205-99-2		
21.100	21.110	(-0.010)	VWD1A	329855	8.08626	8.5	80.00- 120.00	100.00(M)
21.197	21.207	(-0.010)	ADC1A	381178			103.58- 155.36	115.56
16 Benzo(k)Fluoranthene						CAS #: 207-08-9		
21.720	21.726	(-0.006)	VWD1A	255096	8.27339	8.7	80.00- 120.00	100.00
21.819	21.825	(-0.006)	ADC1A	570075			184.06- 276.09	223.47
17 Benzo(a)pyrene						CAS #: 50-32-8		
22.316	22.323	(-0.007)	VWD1A	314516			80.00- 120.00	100.00
22.417	22.424	(-0.007)	ADC1A	1776944	8.25749	8.7	444.91- 667.36	564.98

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	SIGNAL	RESPONSE	(ug/ml)	(ug/l)	TARGET RANGE	RATIO
18 Dibenz(ah)Anthracene						CAS #: 53-70-3		
23.286	23.293	(-0.007)	VWD1A	74575	9.01718	9.5	80.00- 120.00	100.00(QM)
23.387	23.397	(-0.010)	ADC1A	386884			561.59- 842.39	518.79
19 Benzo(ghi)Perylene						CAS #: 191-24-2		
24.023	24.033	(-0.010)	VWD1A	105567	7.39846	7.8	80.00- 120.00	100.00
24.127	24.135	(-0.008)	ADC1A	403244			303.36- 455.05	381.98
20 Indeno(123cd)Pyrene						CAS #: 193-39-5		
24.473	24.480	(-0.007)	VWD1A	270019	7.32959	7.7		

T 5

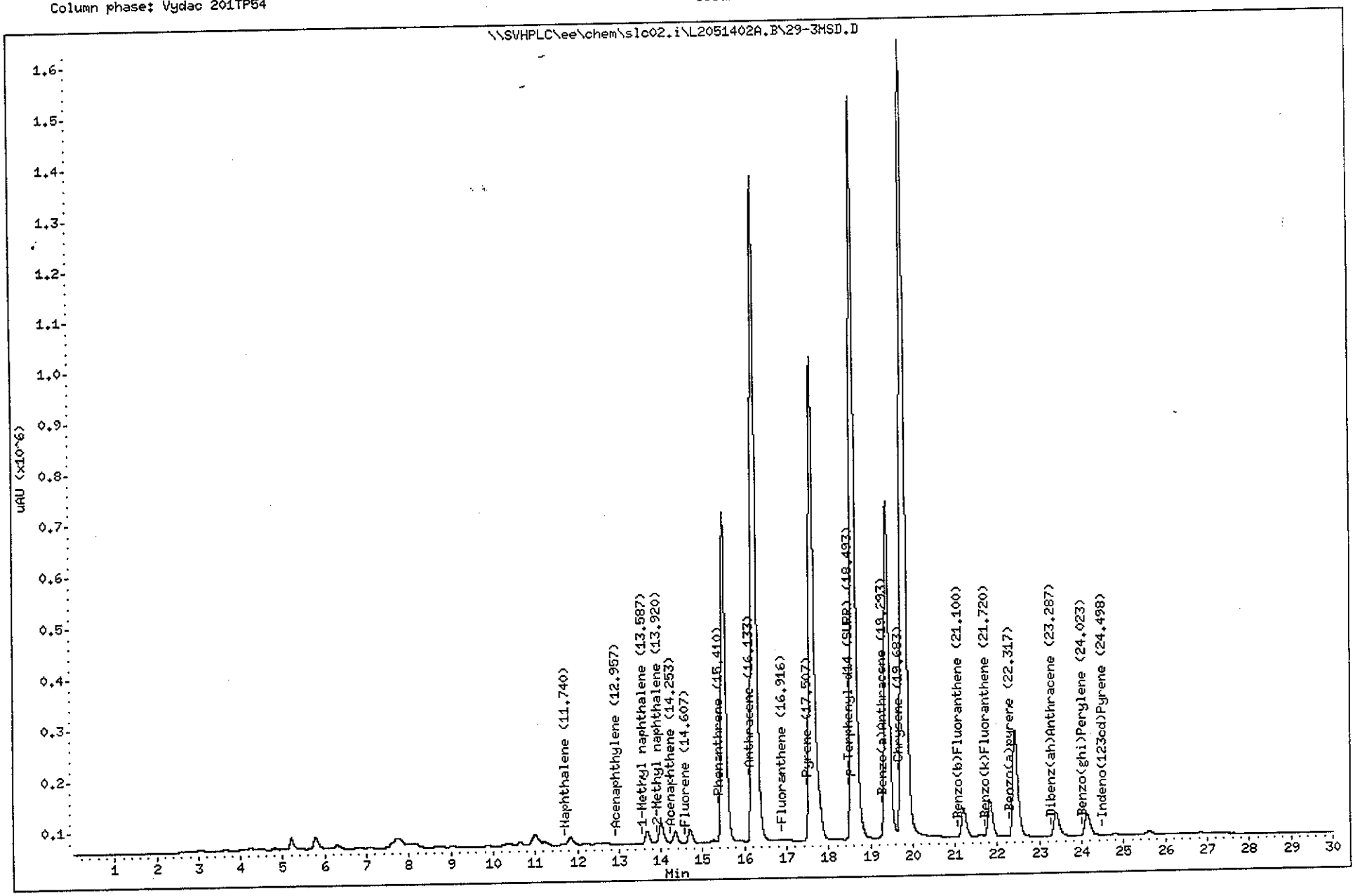
QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\SVHPLC\ee\chem\slc02.i\L2051402A.B\29-3MSD.D
Date : 14-MAY-2002 22:29
Client ID: 062CEF432NMSD
Sample Info: 220402903
Purge Volume: 952.0
Column phase: Vydac 201TP54

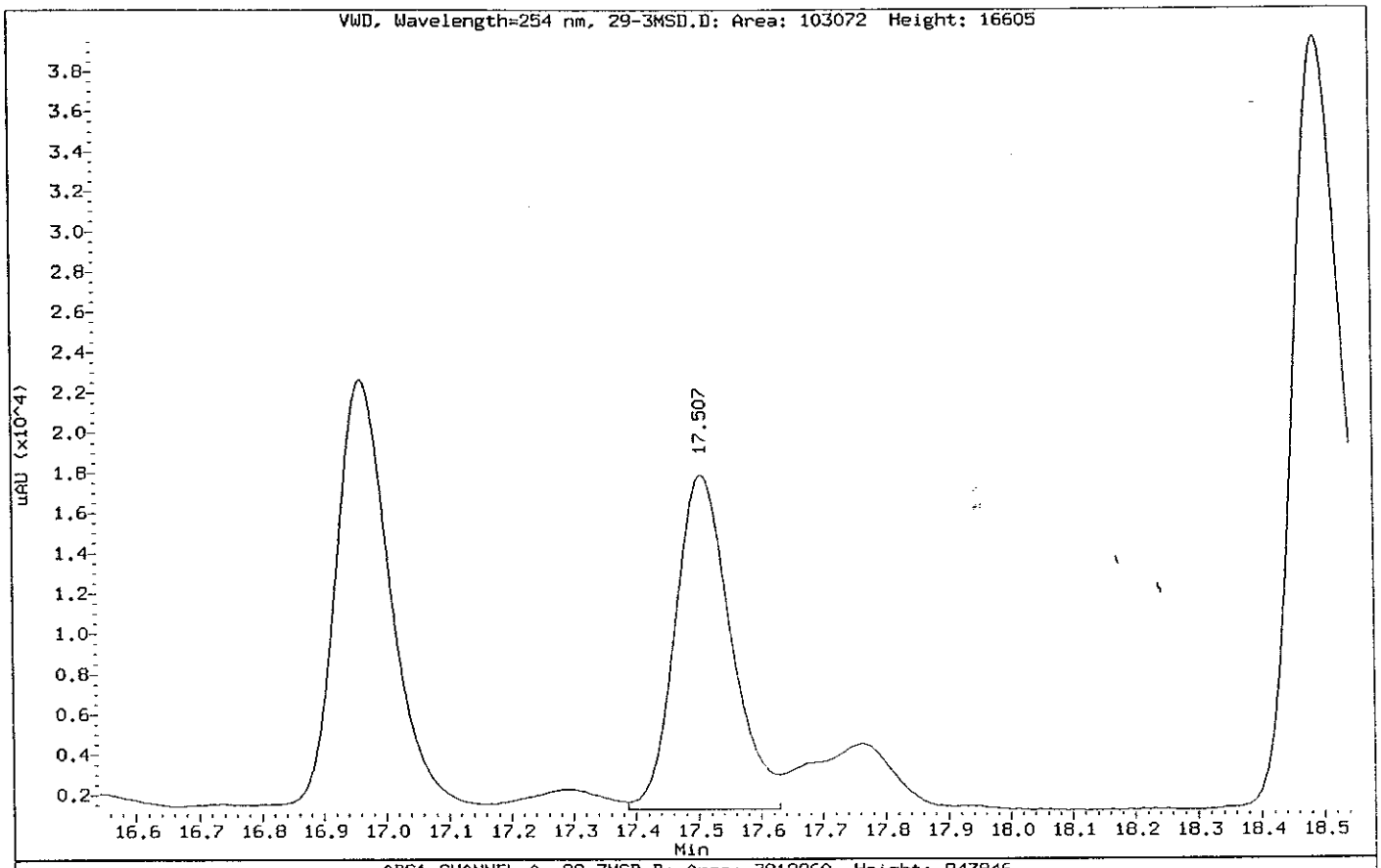
Instrument: slc02.i

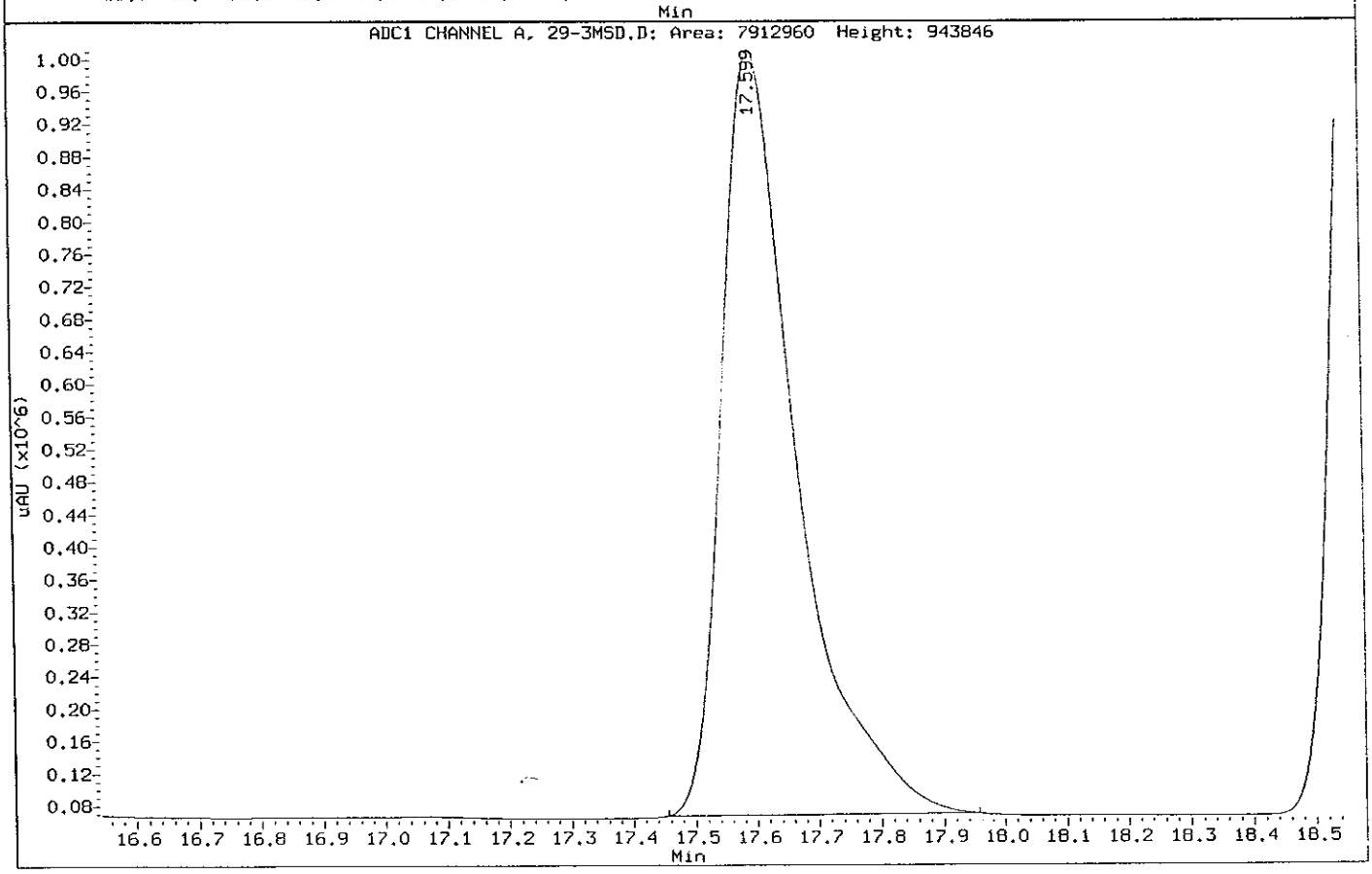
Operator: ROOD
Column diameter: 4.60



Data File: \\SVHPLC\ee\chem\slc02.i\L2051402A.B\29-3MSD.D
Injection Date: 14-MAY-2002 22:29
Instrument: slc02.i
Client Sample ID: 062CEF432NMSD

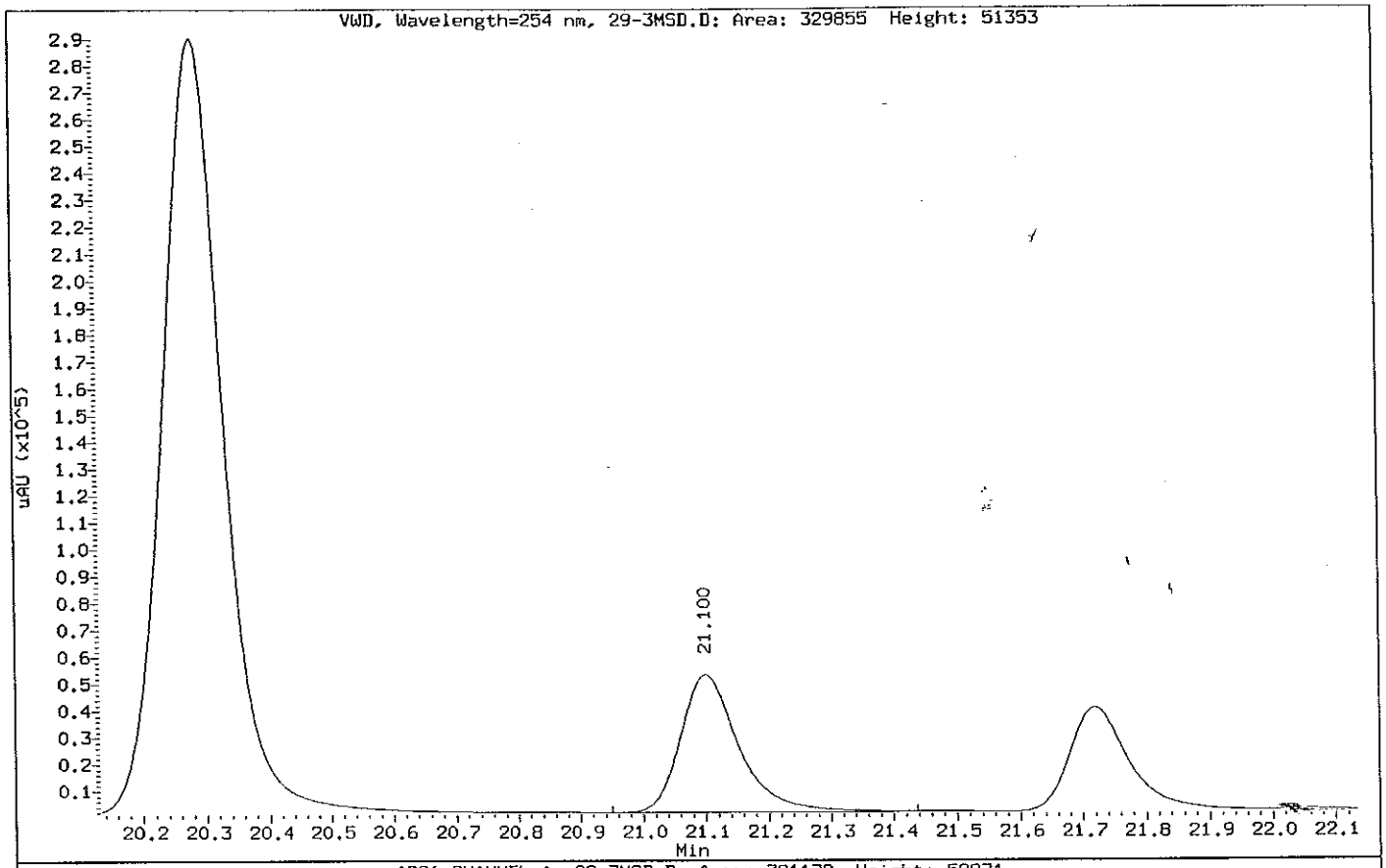
Compound: Pyrene
CAS Number: 129-00-0

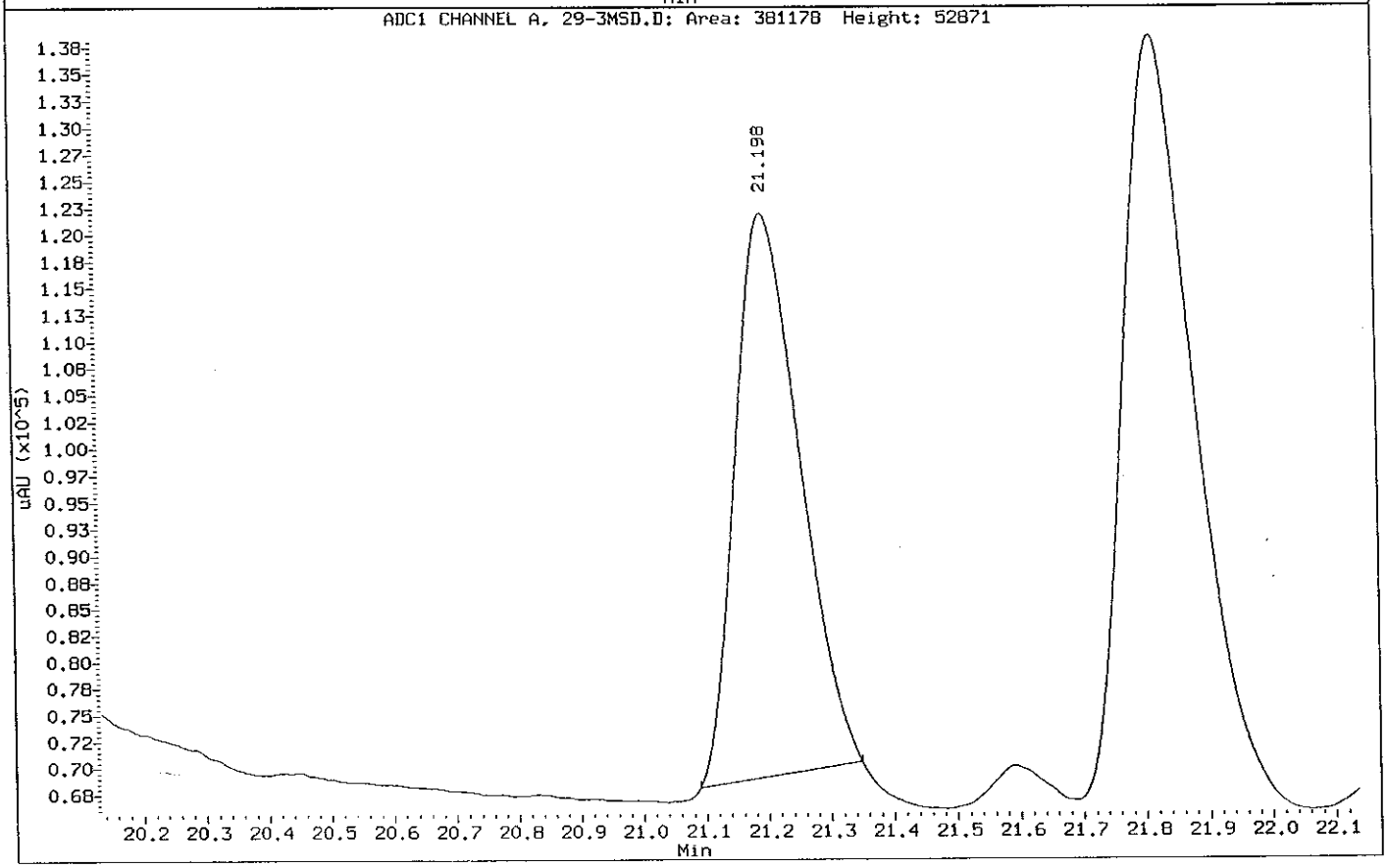




Data File: \\SVHPLC\ee\chem\slc02.i\L2051402A.B\29-3MSD.D
Injection Date: 14-MAY-2002 22:29
Instrument: slc02.i
Client Sample ID: 062CEF432NMSD

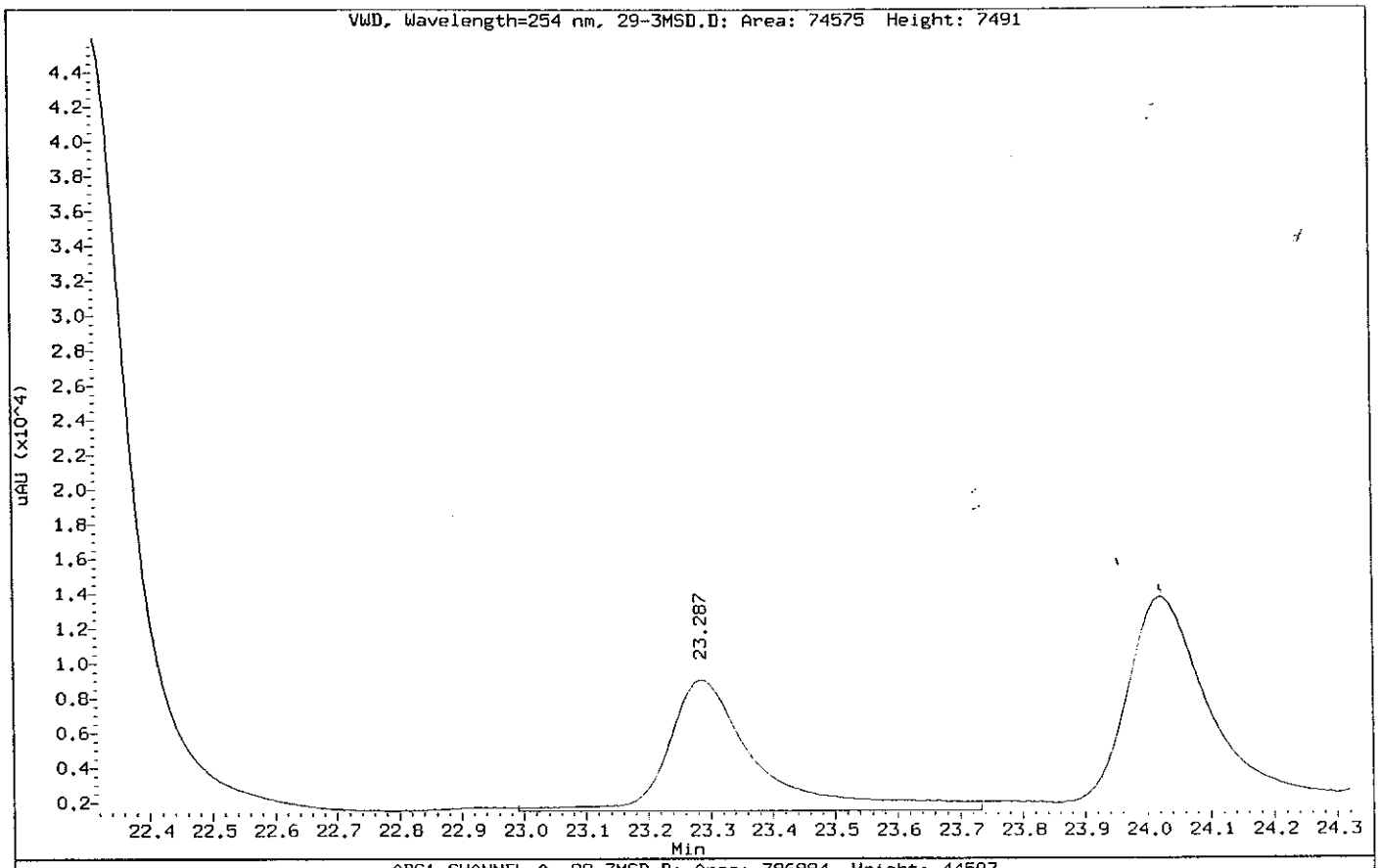
Compound: Benzo(b)Fluoranthene
CAS Number: 205-99-2

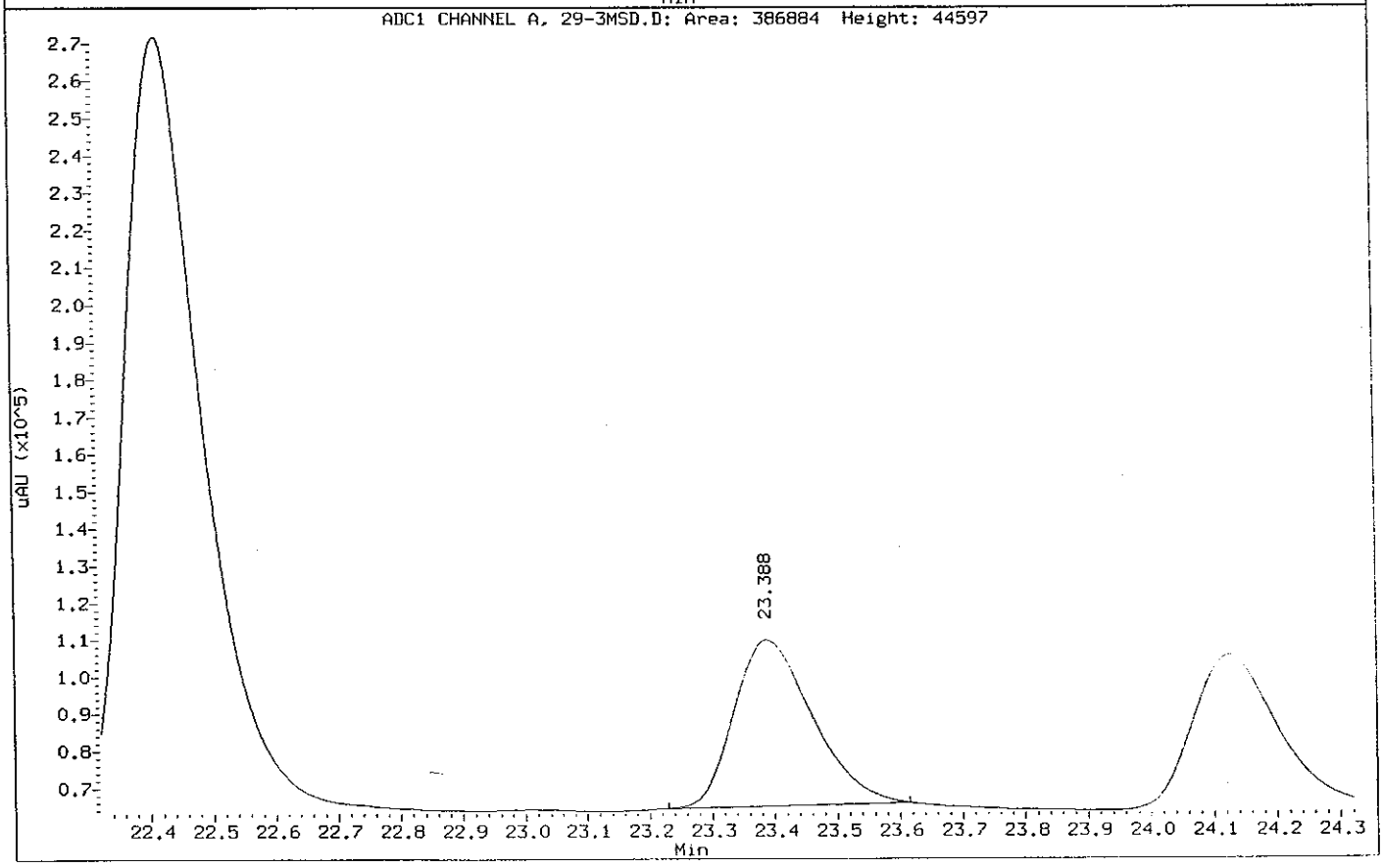




Data File: \\SVHPLC\ee\chem\slc02.i\L2051402A.B\29-3MSD.D
Injection Date: 14-MAY-2002 22:29
Instrument: slc02.i
Client Sample ID: 062CEF432NMSD

Compound: Dibenz(ah)Anthracene
CAS Number: 53-70-3





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Data file : \\SVHPLC\ee\chem\slc02.i\L2051402A.B\29-4.D
Lab Smp Id: 220402904 Client Smp ID: 062CEF436N
Inj Date : 14-MAY-2002 23:03
Operator : ROOD Inst ID: slc02.i
Smp Info : 220402904
Misc Info :
Comment :
Method : \\SVHPLC\ee\chem\slc02.i\L2051402A.B\8310AE.m
Meth Date : 17-May-2002 13:15 tscott Quant Type: ESTD
Cal Date : 22-APR-2002 15:32 Cal File: 30STD.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: lowcalwrl.sub
Target Version: 4.04 Sample Matrix: WATER
Processing Host: SVHPLC

Concentration Formula: Amt * DF * 1/(Vo/1000)*Vt

Name	Value	Description
DF	1.000	Dilution Factor
Vo	950.000	Volume Extracted
Vt	1.000	

RT	EXP RT	DLT RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/l)	TARGET RANGE	RATIO	
2 Naphthalene						CAS #: 91-20-3			
11.753	11.753	(0.000)	VWD1A	5455	1.04604	1.1	80.00- 120.00	100.00	(M)
11.841	11.753	(0.088)	ADC1A	13310			215.34- 323.02	244.00	
3 Acenaphthylene						CAS #: 208-96-8			
12.943	12.963	(-0.020)	VWD1A	879	0.22376	0.24			(H)
4 1-Methyl naphthalene						CAS #: 90-12-0			
13.586	13.593	(-0.007)	VWD1A	4295			80.00- 120.00	100.00	(Q)
13.673	13.593	(0.080)	ADC1A	14798	0.83332	0.88	432.20- 648.30	344.54	
5 2-Methyl naphthalene						CAS #: 91-57-6			
13.933	13.926	(0.007)	VWD1A	7933	1.80983	1.9	80.00- 120.00	100.00	
14.006	13.926	(0.080)	ADC1A	52501			458.09- 687.14	661.81	

RT	EXP RT	DLT RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/l)	TARGET RANGE	RATIO
7 Fluorene						CAS #: 86-73-7		
14.613	14.613	(0.000)	VWD1A	6385	0.26999	0.28		
8 Phenanthrene						CAS #: 85-01-8		
15.416	15.416	(0.000)	VWD1A	25865			80.00- 120.00	100.00
15.508	15.416	(0.092)	ADC1A	188955	0.33562	0.35	703.89-1055.83	730.54
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.496	18.496	(0.000)	VWD1A	224016	16.0313	16.9	80.00- 120.00	100.00
18.590	18.496	(0.094)	ADC1A	10801582			3824.96-5737.44	4821.79

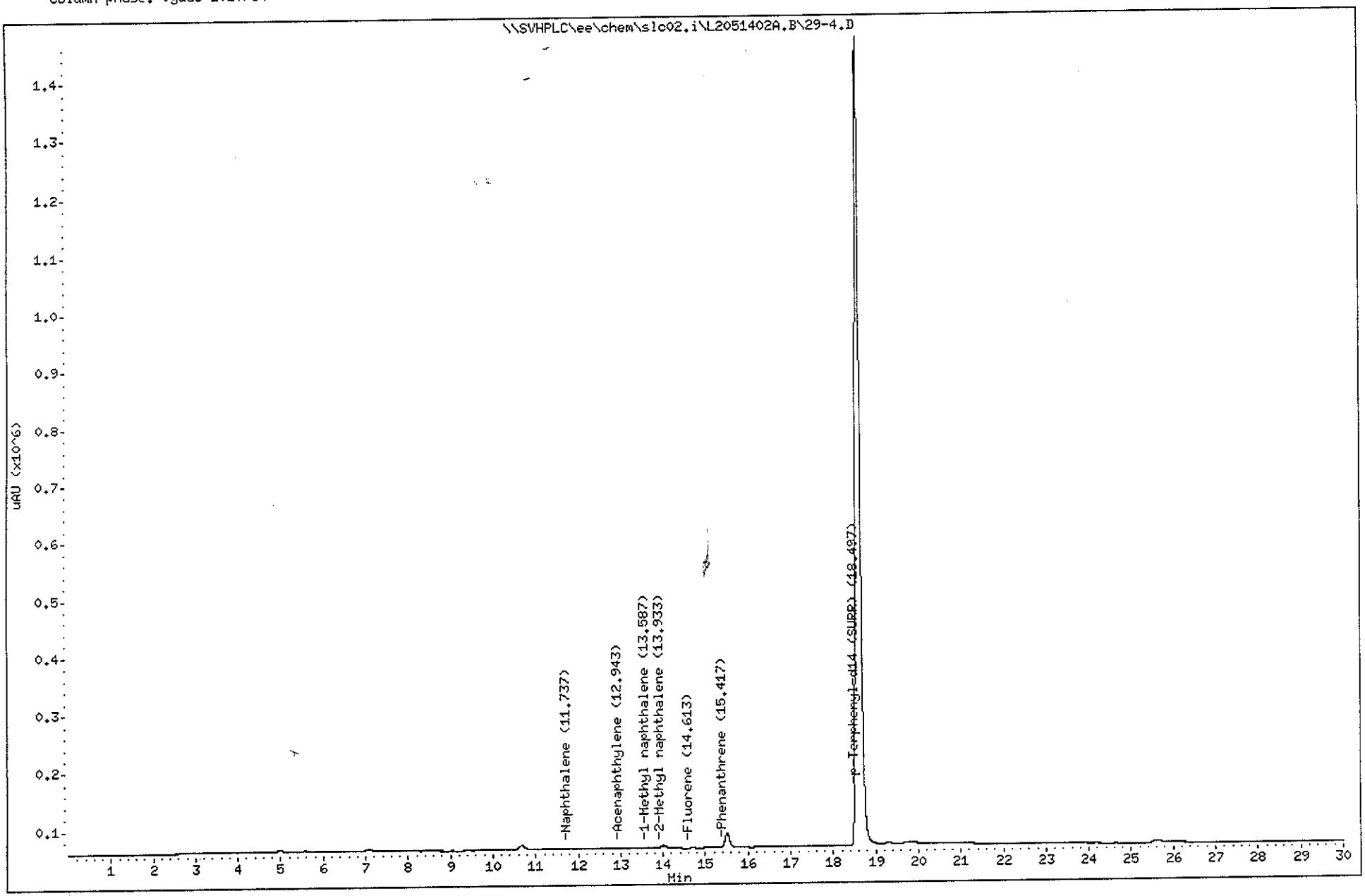
QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\SVHPLC\ee\chem\slc02.i\L2051402A.B\29-4.D
Date : 14-MAY-2002 23:03
Client ID: 062CEF436N
Sample Info: 220402904
Purge Volume: 950.0
Column phase: Vydac 201TP54

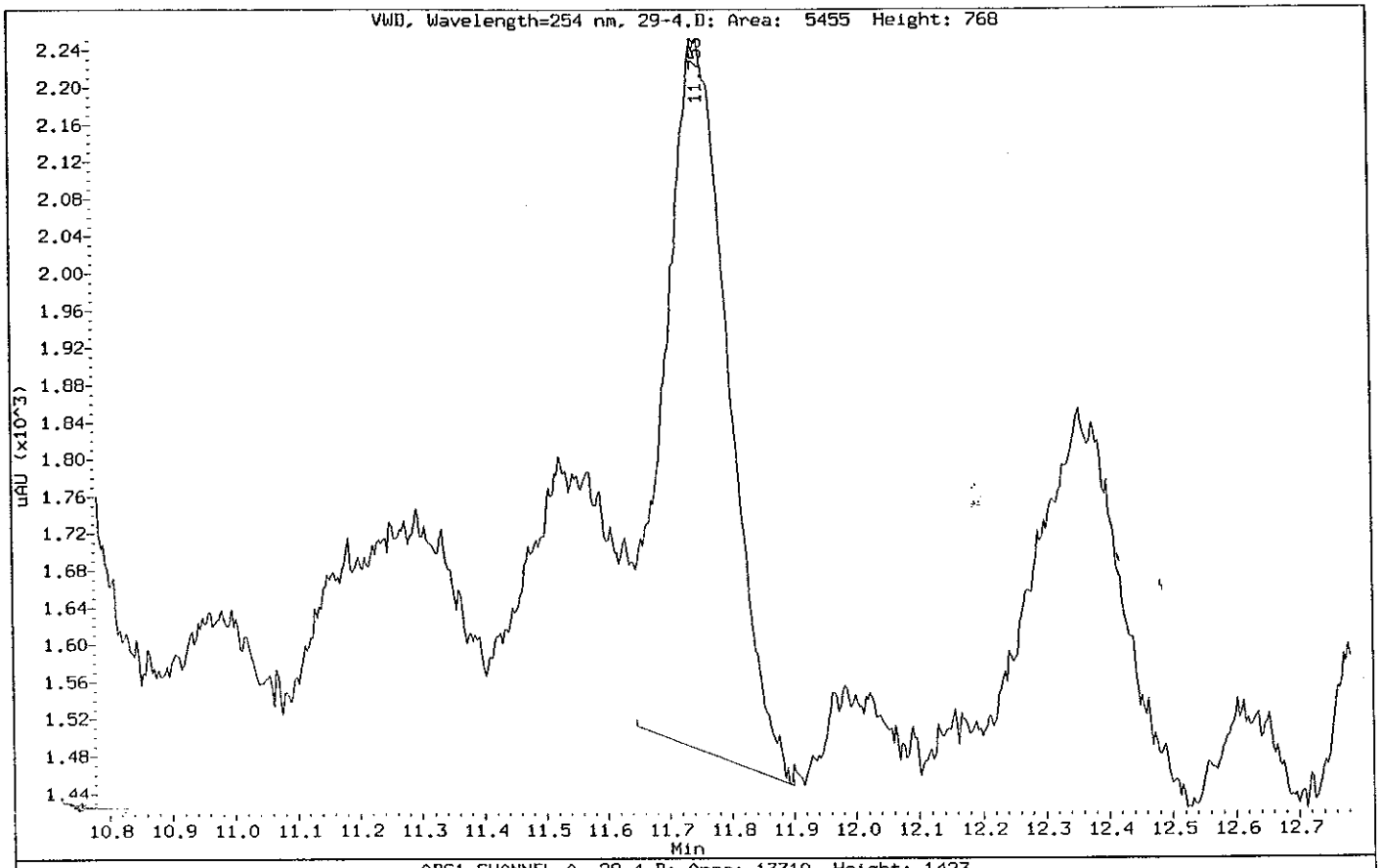
Instrument: slc02.i

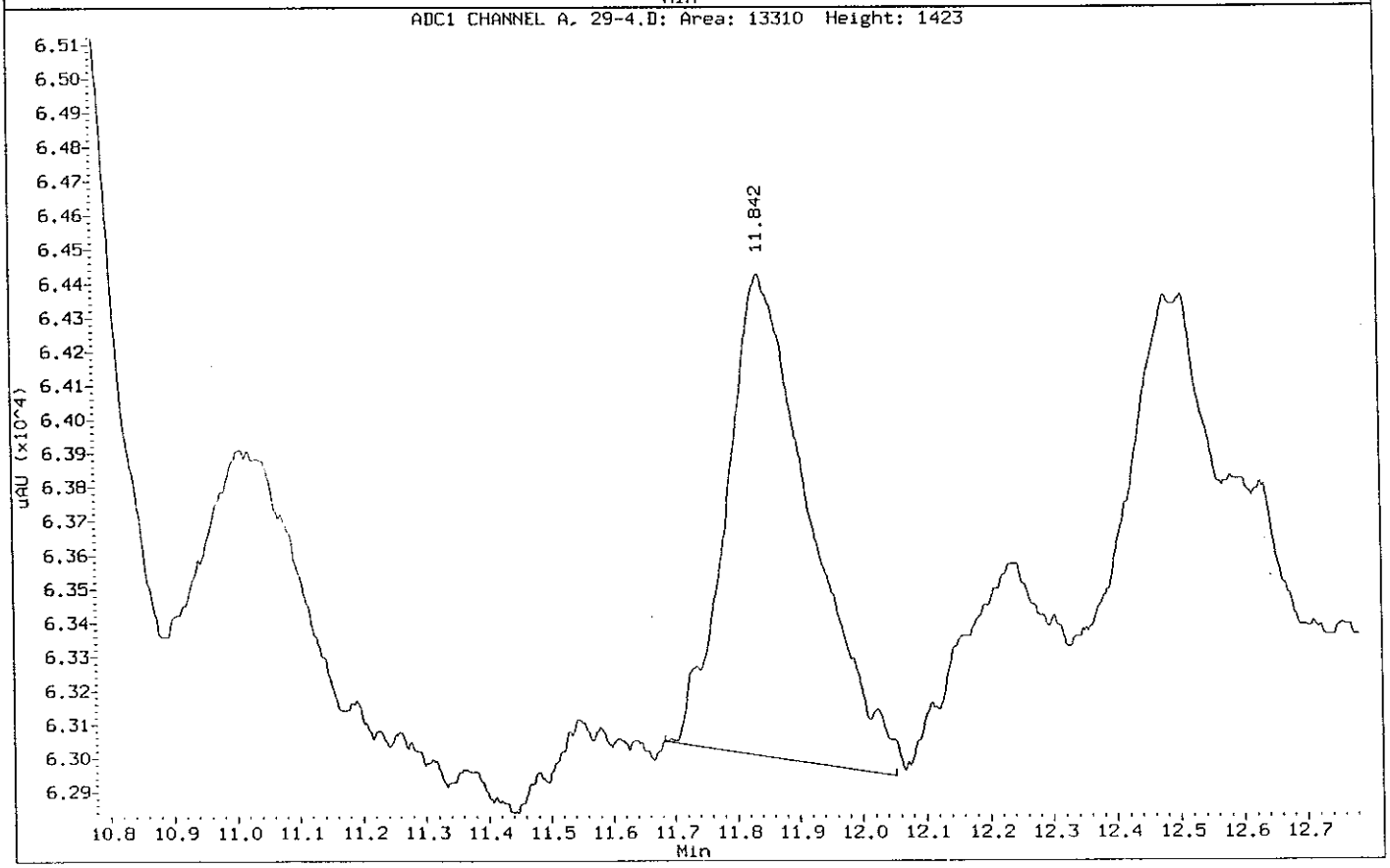
Operator: ROOD
Column diameter: 4.60



Data File: \\SVHPLC\ee\chem\slc02.i\L2051402A.B\29-4.D
Injection Date: 14-MAY-2002 23:03
Instrument: slc02.i
Client Sample ID: 062CEF436N

Compound: Naphthalene
CAS Number: 91-20-3





PEL Laboratories, Inc.

Data file : \\SVHPLC\ee\chem\slc02.i\L2051402A.B\CCV31.D
Lab Smp Id: SV4942 Client Smp ID: CCV31
Inj Date : 14-MAY-2002 23:38
Operator : ROOD Inst ID: slc02.i
Smp Info : SV4942
Misc Info :
Comment :
Method : \\SVHPLC\ee\chem\slc02.i\L2051402A.B\8310AE.m
Meth Date : 17-May-2002 13:48 tscott Quant Type: ESTD
Cal Date : 22-APR-2002 15:32 Cal File: 30STD.D
Als bottle: 21 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.04 Sample Matrix: WATER
Processing Host: SVHPLC

Concentration Formula: Amt * DF * 1/(Vo/1000)*Vt

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume Extracted
Vt	1.000	

RT	EXP RT	DLT RT	SIGNAL	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
2 Naphthalene						CAS #: 91-20-3		
11.750	11.750	(0.000)	VWD1A	76304	15.0000	14.6	80.00- 120.00	100.00
11.838	11.838	(0.000)	ADC1A	208556			218.66- 327.99	273.32
3 Acenaphthylene						CAS #: 208-96-8		
12.960	12.960	(0.000)	VWD1A	56447	15.0000	14.4		
4 1-Methyl naphthalene						CAS #: 90-12-0		
13.586	13.586	(0.000)	VWD1A	46215			80.00- 120.00	100.00
13.673	13.673	(0.000)	ADC1A	257376	15.0000	14.5	445.53- 668.29	556.91
5 2-Methyl naphthalene						CAS #: 91-57-6		
13.916	13.916	(0.000)	VWD1A	65339	15.0000	14.9	80.00- 120.00	100.00
14.008	14.008	(0.000)	ADC1A	383792			469.91- 704.86	587.39

RT	EXP RT	DLT RT	SIGNAL	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
6 Acenaphthene							CAS #: 83-32-9	
14.253	14.253	(0.000)	VWD1A	28702			80.00- 120.00	100.00
14.341	14.341	(0.000)	ADC1A	335058	15.0000	14.4	933.89-1400.84	1167.37
7 Fluorene							CAS #: 86-73-7	
14.603	14.603	(0.000)	VWD1A	346320	15.0000	14.6		
8 Phenanthrene							CAS #: 85-01-8	
15.406	15.406	(0.000)	VWD1A	969998			80.00- 120.00	100.00
15.498	15.498	(0.000)	ADC1A	8332202	15.0000	14.8	687.19-1030.79	858.99
9 Anthracene							CAS #: 120-12-7	
16.130	16.130	(0.000)	VWD1A	2166483	15.0000	15.2	80.00- 120.00	100.00
16.233	16.233	(0.000)	ADC1A	17387768			642.06- 963.10	802.58
10 Fluoranthene							CAS #: 206-44-0	
16.960	16.960	(0.000)	VWD1A	224923	15.0000	14.3		
11 Pyrene							CAS #: 129-00-0	
17.503	17.503	(0.000)	VWD1A	181065	15.0000	13.0	80.00- 120.00	100.00
17.596	17.596	(0.000)	ADC1A	13770249			6084.11-9126.17	7605.14
$ 12 p-Terphenyl-d14 (SURR)							CAS #: 1718-51-0	
18.490	18.490	(0.000)	VWD1A	206557	15.0000	14.8	80.00- 120.00	100.00
18.586	18.586	(0.000)	ADC1A	9926646			3844.61-5766.92	4805.77
13 Benzo(a)Anthracene							CAS #: 56-55-3	
19.290	19.290	(0.000)	VWD1A	539854	15.0000	14.6	80.00- 120.00	100.00
19.385	19.385	(0.000)	ADC1A	8970428			1329.31-1993.97	1661.64
14 Chrysene							CAS #: 218-01-9	
19.680	19.680	(0.000)	VWD1A	761402	15.0000	14.7	80.00- 120.00	100.00(M)
19.806	19.806	(0.000)	ADC1A	18839905			1979.50-2969.24	2474.37
15 Benzo(b)Fluoranthene							CAS #: 205-99-2	
21.096	21.096	(0.000)	VWD1A	591903	15.0000	14.5	80.00- 120.00	100.00(M)
21.196	21.196	(0.000)	ADC1A	745894			100.81- 151.22	126.02
16 Benzo(k)Fluoranthene							CAS #: 207-08-9	
21.716	21.716	(0.000)	VWD1A	448028	15.0000	14.5	80.00- 120.00	100.00
21.816	21.816	(0.000)	ADC1A	1029840			183.89- 275.83	229.86
17 Benzo(a)pyrene							CAS #: 50-32-8	
22.313	22.313	(0.000)	VWD1A	542106			80.00- 120.00	100.00
22.413	22.413	(0.000)	ADC1A	3105625	15.0000	14.4	458.31- 687.46	572.88

					AMOUNTS CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	SIGNAL	RESPONSE	(ug/ml)	(ug/ml)	TARGET RANGE	RATIO
18 Dibenz(ah)Anthracene						CAS #: 53-70-3		
23.283	23.283	(0.000)	VWD1A	126855	15.0000	15.3	80.00- 120.00	100.00(M)
23.385	23.385	(0.000)	ADC1A	823787			519.51- 779.27	649.39
19 Benzo(ghi)Perylene						CAS #: 191-24-2		
24.020	24.020	(0.000)	VWD1A	194442	15.0000	13.6	80.00- 120.00	100.00
24.123	24.123	(0.000)	ADC1A	777423			319.86- 479.79	399.82
20 Indeno(123cd)Pyrene						CAS #: 193-39-5		
24.470	24.470	(0.000)	VWD1A	501020	15.0000	13.6		

TS

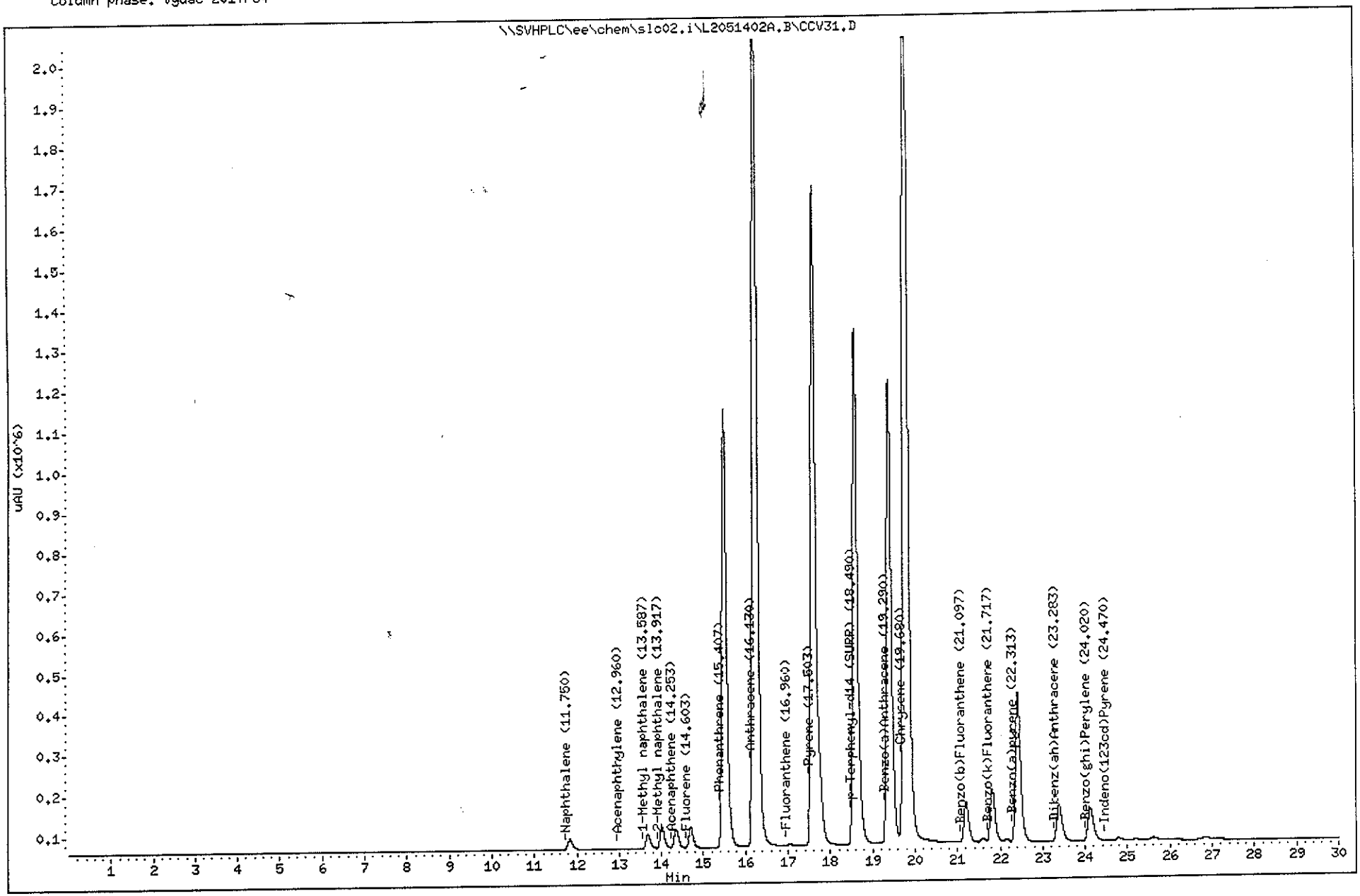
QC Flag Legend

M - Compound response manually integrated.

Data File: \\SVHPLC\ee\chem\slc02.i\L2051402A.B\CCV31.D
Date : 14-MAY-2002 23:38
Client ID: CCV31
Sample Info: SV4942
Purge Volume: 1000.0
Column phase: Vydac 201TP54

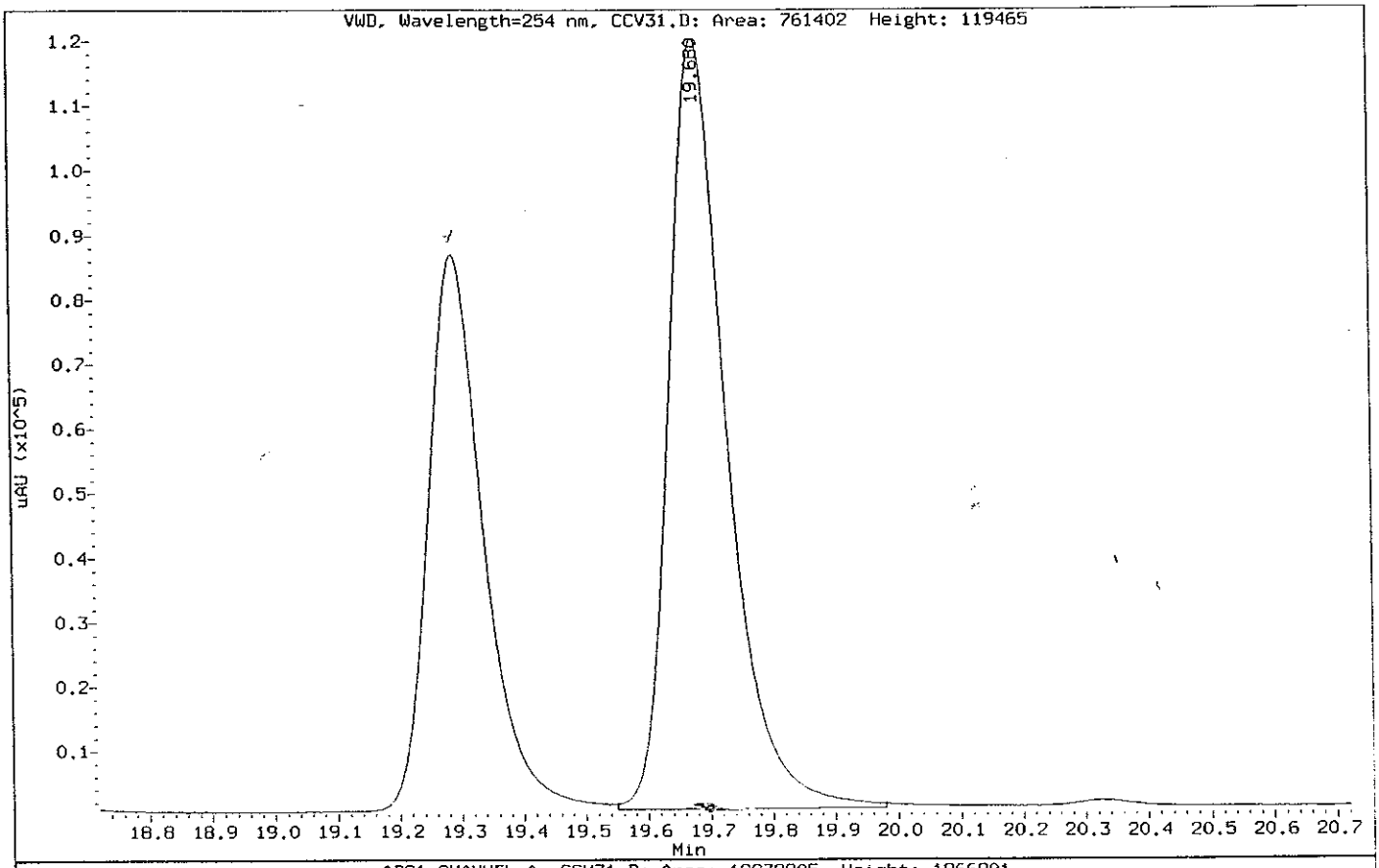
Instrument: slc02.i

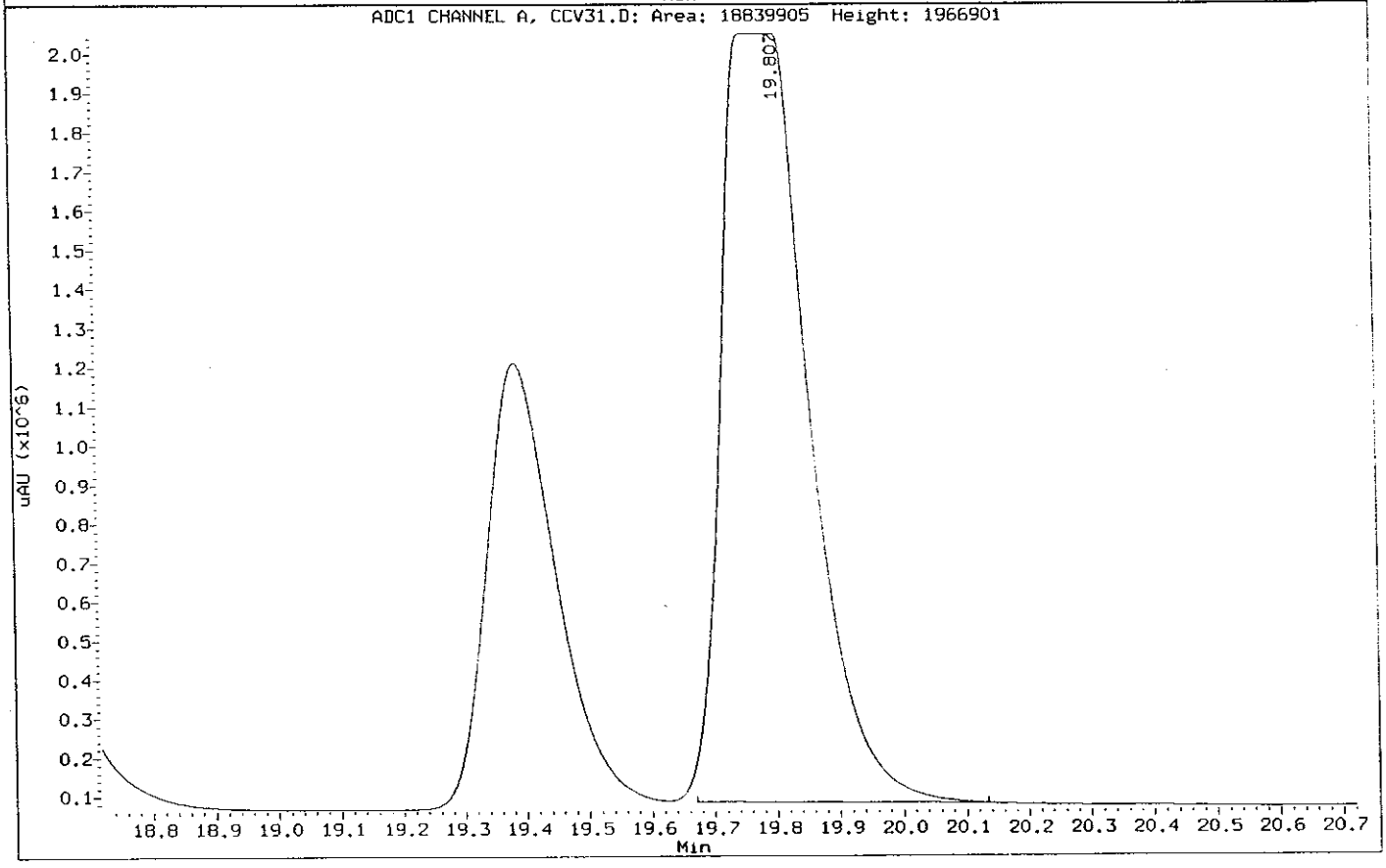
Operator: ROOD
Column diameter: 4.60



Data File: \\SVHPLC\ee\chem\slc02.i\L2051402A.B\CCV31.D
Injection Date: 14-MAY-2002 23:38
Instrument: slc02.i
Client Sample ID: CCV31

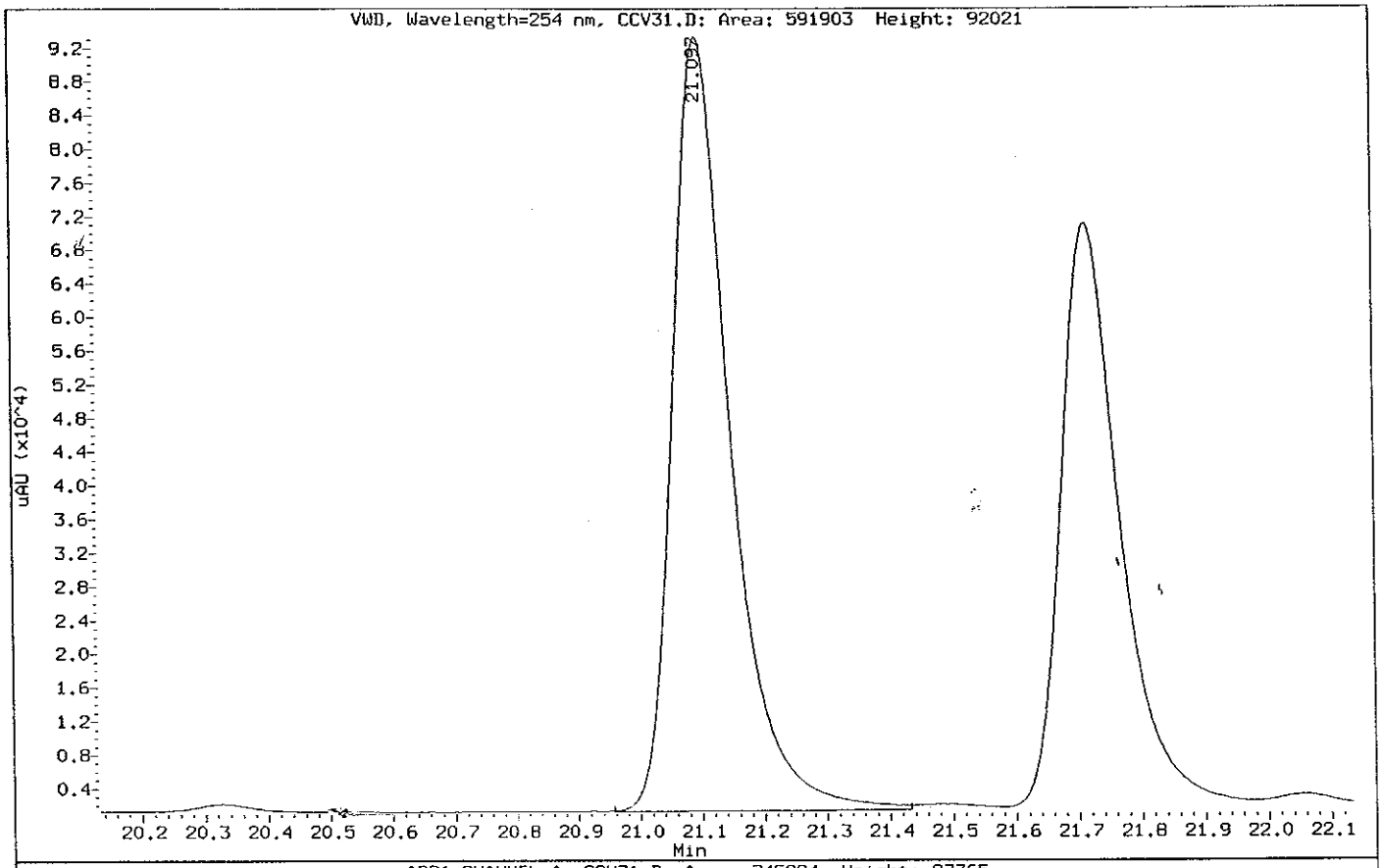
Compound: Chrysene
CAS Number: 218-01-9

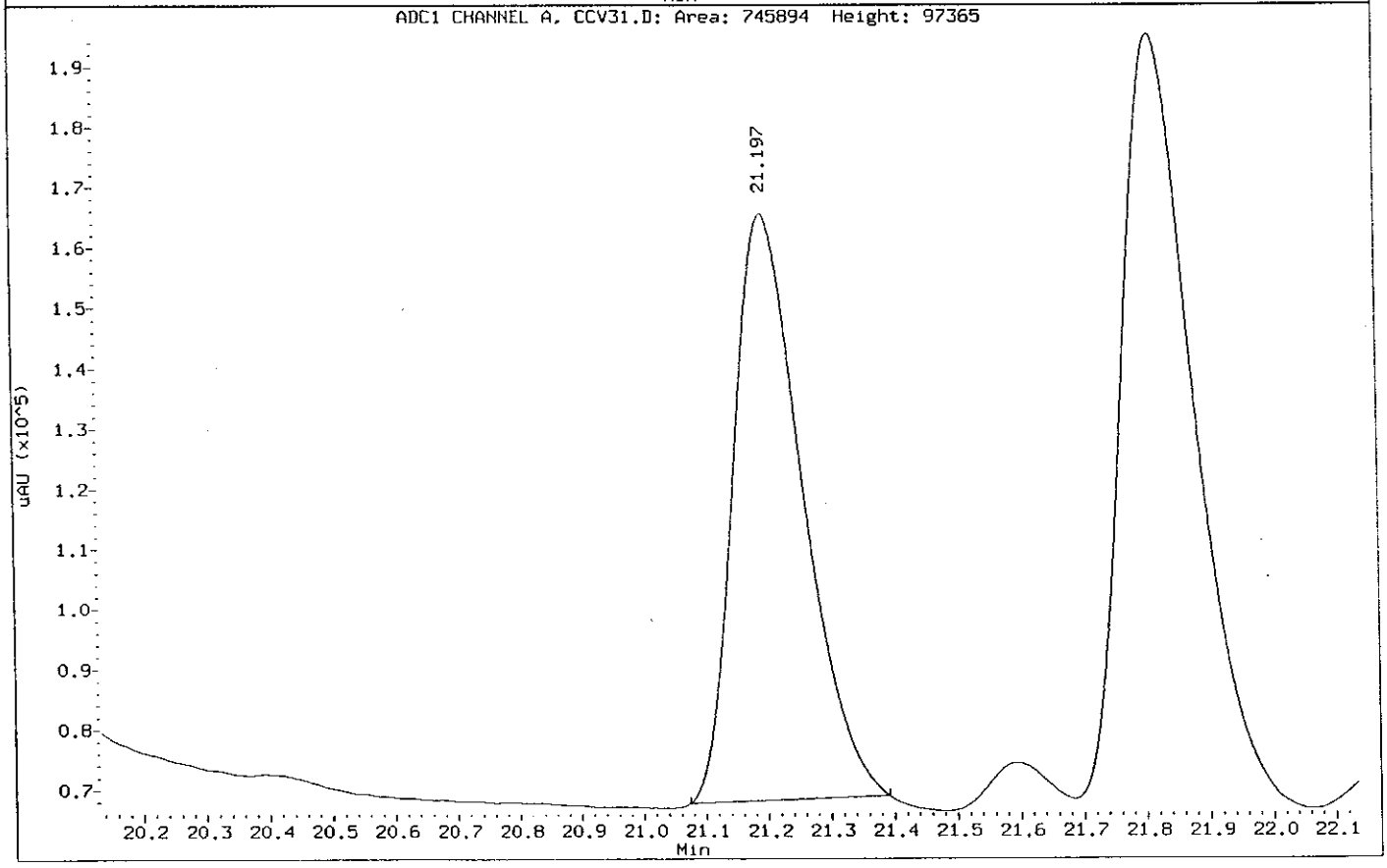




Data File: \\SVHPLC\ee\chem\slc02.i\L2051402A.B\CCV31.D
Injection Date: 14-MAY-2002 23:38
Instrument: slc02.i
Client Sample ID: CCV31

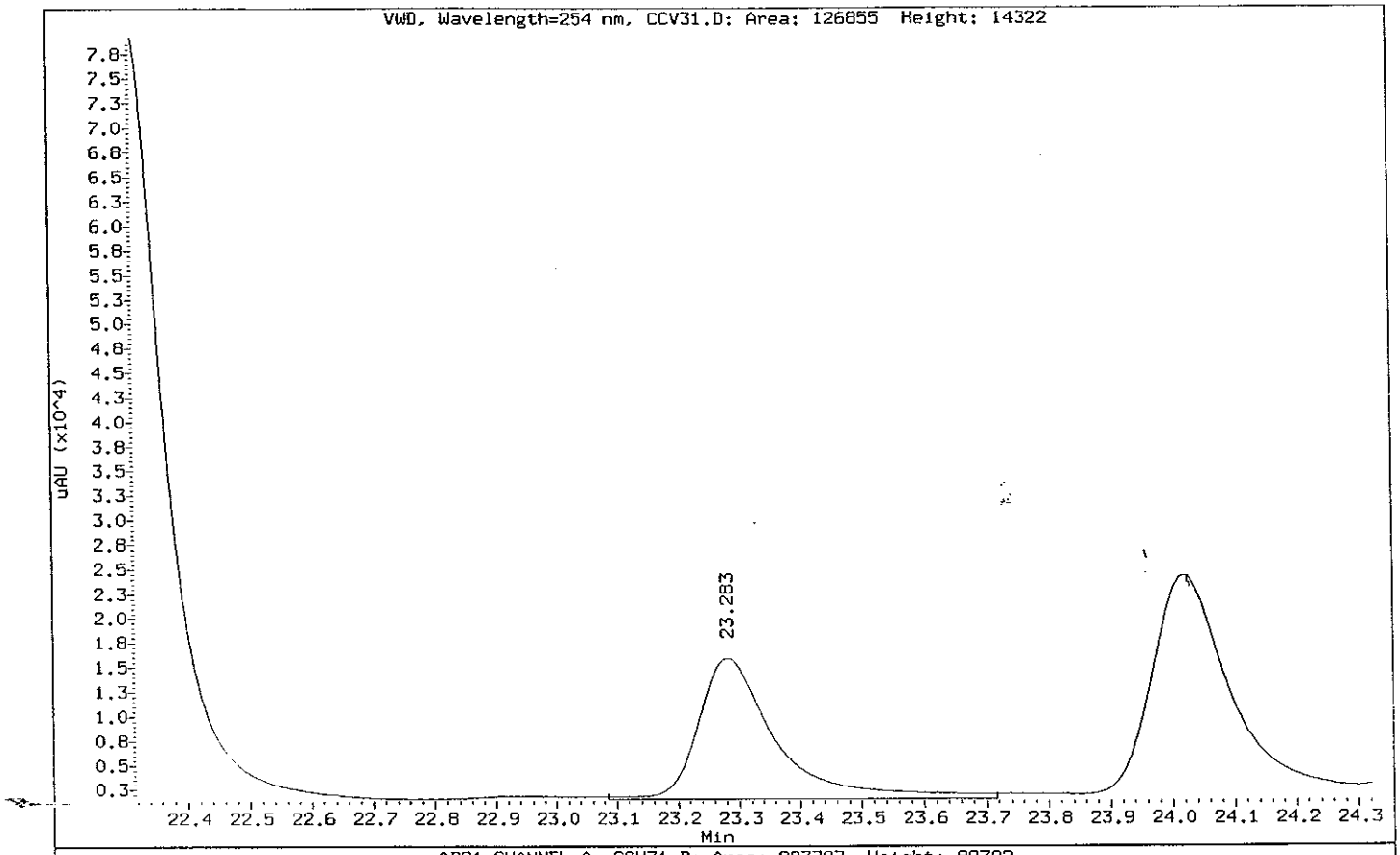
Compound: Benzo(b)Fluoranthene
CAS Number: 205-99-2

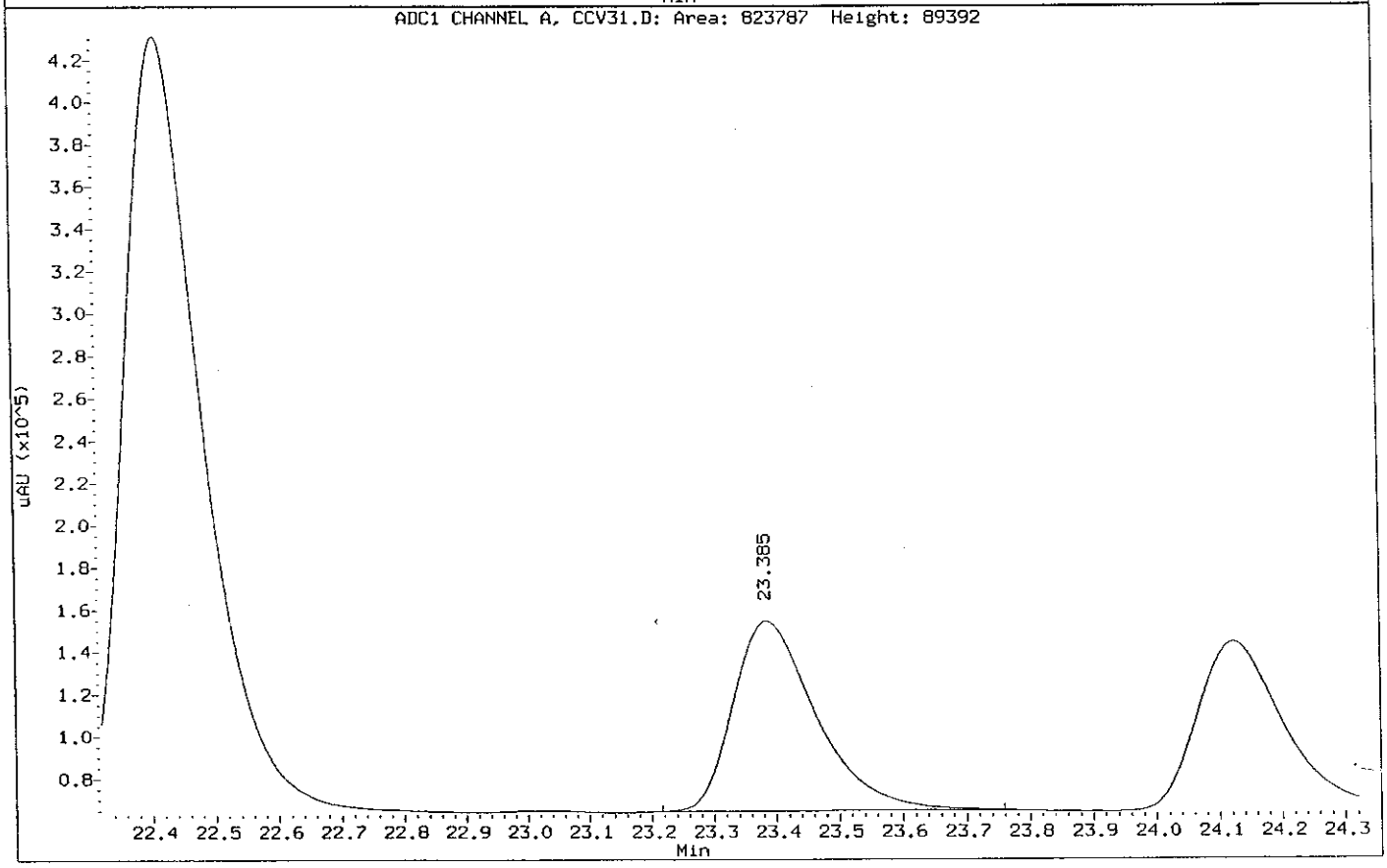




Data File: \\SVHPLC\ee\chem\slc02.i\L2051402A.B\CCV31.D
Injection Date: 14-MAY-2002 23:38
Instrument: slc02.i
Client Sample ID: CCV31

Compound: Dibenz(ah)Anthracene
CAS Number: 53-70-3





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Data file : \\SVHPLC\ee\chem\slc02.i\L2051402A.B\29-5.D
Lab Smp Id: 220402905 Client Smp ID: 062CEF437N
Inj Date : 15-MAY-2002 00:47
Operator : ROOD Inst ID: slc02.i
Smp Info : 220402905
Misc Info :
Comment :
Method : \\SVHPLC\ee\chem\slc02.i\L2051402A.B\8310AE.m
Meth Date : 17-May-2002 13:15 tscott Quant Type: ESTD
Cal Date : 22-APR-2002 15:32 Cal File: 30STD.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: lowcalwrl.sub
Target Version: 4.04 Sample Matrix: WATER
Processing Host: SVHPLC

Concentration Formula: Amt * DF * 1/(Vo/1000)*Vt

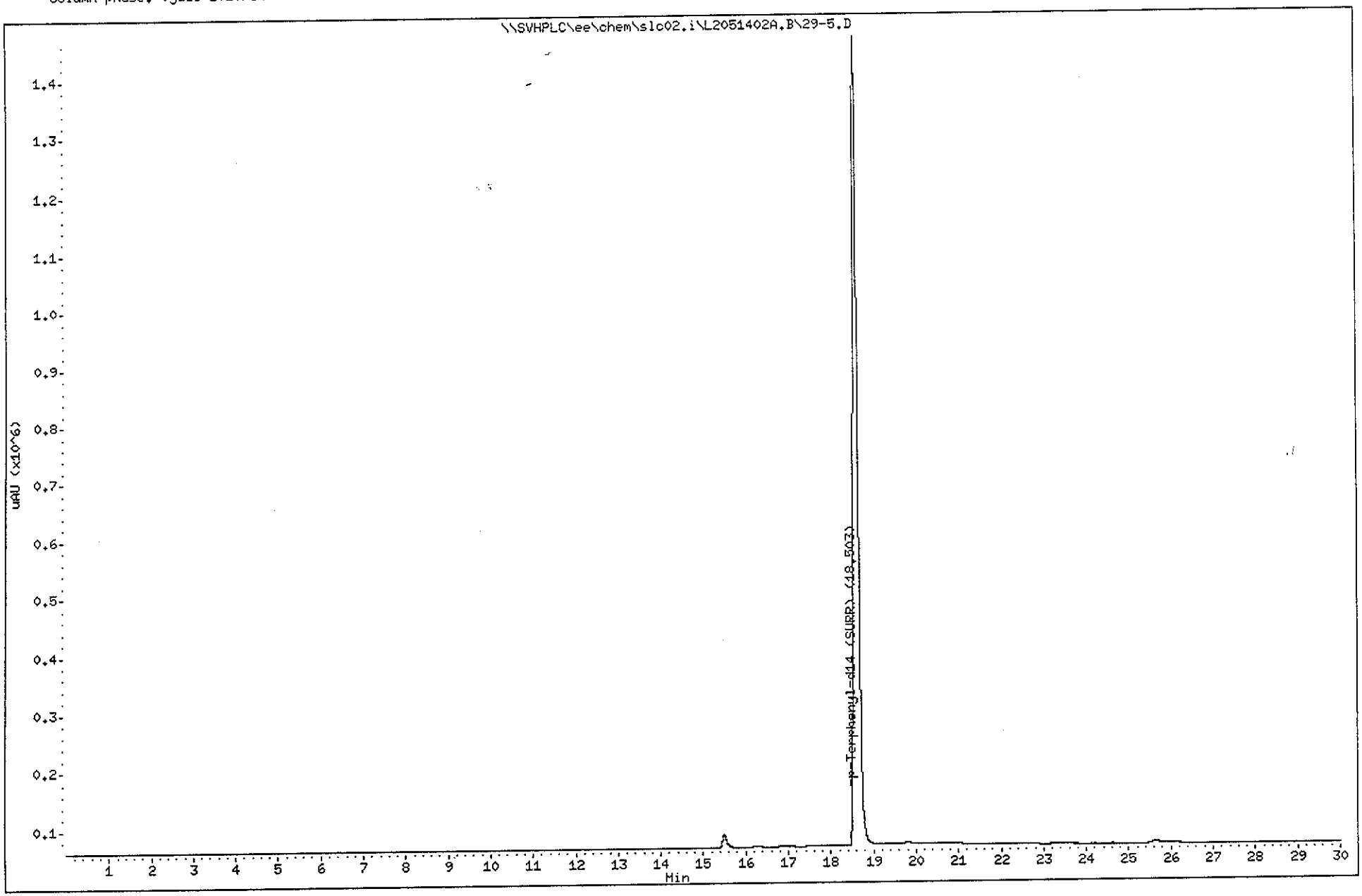
Name	Value	Description
DF	1.000	Dilution Factor
Vo	952.000	Volume Extracted
Vt	1.000	

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	SIGNAL	RESPONSE	(ug/ml)	(ug/l)	TARGET RANGE	RATIO
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.503	18.496	(0.007)	VWD1A	226449	16.2054	17.0	80.00- 120.00	100.00
18.596	18.496	(0.100)	ADC1A	10835463			3824.96-5737.44	4784.95

Data File: \\SVHPLC\ee\chem\slc02.i\L2051402A.B\29-5.D
Date : 15-MAY-2002 00:47
Client ID: 062CEF437N
Sample Info: 220402905
Purge Volume: 952.0
Column phase: Vydac 201TP54

Instrument: slc02.i

Operator: ROOD
Column diameter: 4.60



PEL Laboratories, Inc.

Data file : \\SVHPLC\ee\chem\slc02.i\L2051402A.B\29-6.D
Lab Smp Id: 220402906 Client Smp ID: 062CEF439N
Inj Date : 15-MAY-2002 01:22
Operator : ROOD Inst ID: slc02.i
Smp Info : 220402906
Misc Info :
Comment :
Method : \\SVHPLC\ee\chem\slc02.i\L2051402A.B\8310AE.m
Meth Date : 17-May-2002 13:15 tscott Quant Type: ESTD
Cal Date : 22-APR-2002 15:32 Cal File: 30STD.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: lowcalwrl.sub
Target Version: 4.04 Sample Matrix: WATER
Processing Host: SVHPLC

Concentration Formula: Amt * DF * 1/(Vo/1000)*Vt

Name	Value	Description
DF	1.000	Dilution Factor
Vo	935.000	Volume Extracted
Vt	1.000	

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	SIGNAL	RESPONSE	(ug/ml)	(ug/l)	TARGET RANGE	RATIO
2 Naphthalene							CAS #: 91-20-3	
11.740	11.753	(-0.013)	VWD1A	146301	28.0544	30.0	80.00- 120.00	100.00
11.830	11.753	(0.077)	ADC1A	406935			215.34- 323.02	278.15
3 Acenaphthylene							CAS #: 208-96-8	
12.940	12.963	(-0.023)	VWD1A	4436	1.12924	1.2		
4 1-Methyl naphthalene							CAS #: 90-12-0	
13.580	13.593	(-0.013)	VWD1A	22120			80.00- 120.00	100.00
13.670	13.593	(0.077)	ADC1A	127483	7.17898	7.7	432.20- 648.30	576.32
5 2-Methyl naphthalene							CAS #: 91-57-6	
13.916	13.926	(-0.010)	VWD1A	39941	9.11213	9.7	80.00- 120.00	100.00
14.005	13.926	(0.079)	ADC1A	217997			458.09- 687.14	545.80

RT	EXP RT	DLT RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	CONCENTRATIONS FINAL (ug/l)	TARGET RANGE	RATIO
7 Fluorene						CAS #: 86-73-7		
14.606	14.613	(-0.007)	VWD1A	7399	0.31286	0.33		
8 Phenanthrene						CAS #: 85-01-8		
15.410	15.416	(-0.006)	VWD1A	26132			80.00- 120.00	100.00
15.500	15.416	(0.084)	ADC1A	186937	0.33204	0.36	703.89-1055.83	715.36
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.500	18.496	(0.004)	VWD1A	224069	16.0350	17.1	80.00- 120.00	100.00(Q)
18.592	18.496	(0.096)	ADC1A	6431826			3824.96-5737.44	2870.47

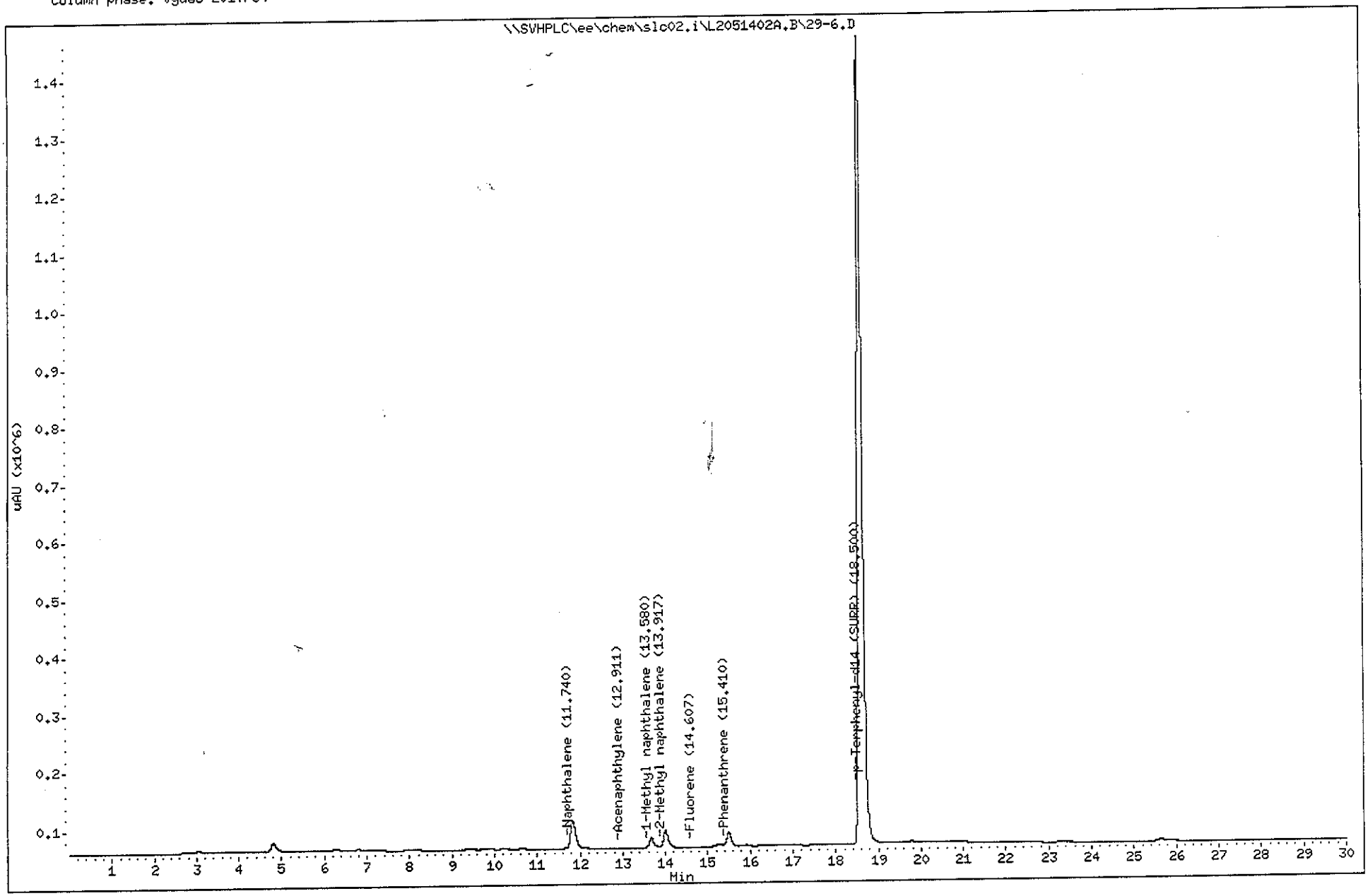
QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\SVHPLC\ee\chem\slc02.i\L2051402A.B\29-6.D
Date : 15-MAY-2002 01:22
Client ID: 062CEF439N
Sample Info: 220402906
Purge Volume: 935.0
Column phase: Vydac 201TP54

Instrument: slc02.i

Operator: ROOD
Column diameter: 4.60



PEL Laboratories, Inc.

Data file : \\SVHPLC\ee\chem\slc02.i\L2051402A.B\29-7.D
Lab Smp Id: 220402907 Client Smp ID: 062CEF4333N
Inj Date : 15-MAY-2002 01:56
Operator : ROOD Inst ID: slc02.i
Smp Info : 220402907
Misc Info :
Comment :
Method : \\SVHPLC\ee\chem\slc02.i\L2051402A.B\8310AE.m
Meth Date : 17-May-2002 13:15 tscott Quant Type: ESTD
Cal Date : 22-APR-2002 15:32 Cal File: 30STD.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: lowcalwrl.sub
Target Version: 4.04 Sample Matrix: WATER
Processing Host: SVHPLC

Concentration Formula: Amt * DF * 1/(Vo/1000)*Vt

Name	Value	Description
DF	1.000	Dilution Factor
Vo	948.000	Volume Extracted
Vt	1.000	

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	SIGNAL	RESPONSE	(ug/ml)	(ug/l)	TARGET RANGE	RATIO
2 Naphthalene							CAS #: 91-20-3	
11.730	11.753	(-0.023)	VWD1A	1030	0.19751	0.21	80.00- 120.00	100.00(aM)
11.864	11.753	(0.111)	ADC1A	3018			215.34- 323.02	293.01
$ 12 p-Terphenyl-d14 (SURR)							CAS #: 1718-51-0	
18.500	18.496	(0.004)	VWD1A	235049	16.8208	17.7	80.00- 120.00	100.00
18.596	18.496	(0.100)	ADC1A	11287564			3824.96-5737.44	4802.22

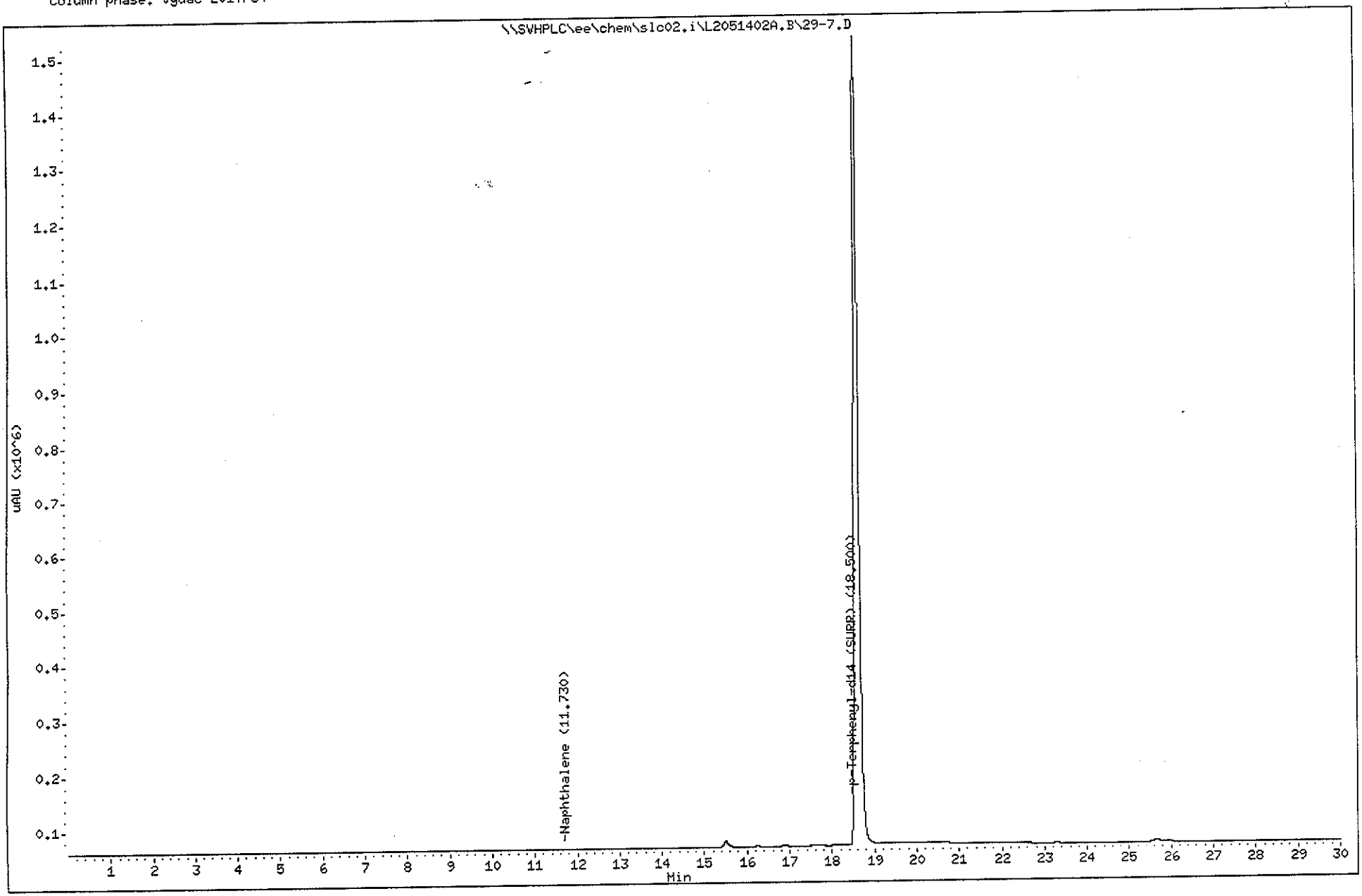
QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\SVHPLC\ee\chem\slc02.i\L2051402A.B\29-7.D
Date : 15-MAY-2002 01:56
Client ID: 062CEF4333N
Sample Info: 220402907
Purge Volume: 948.0
Column phase: Vydac 201TP54

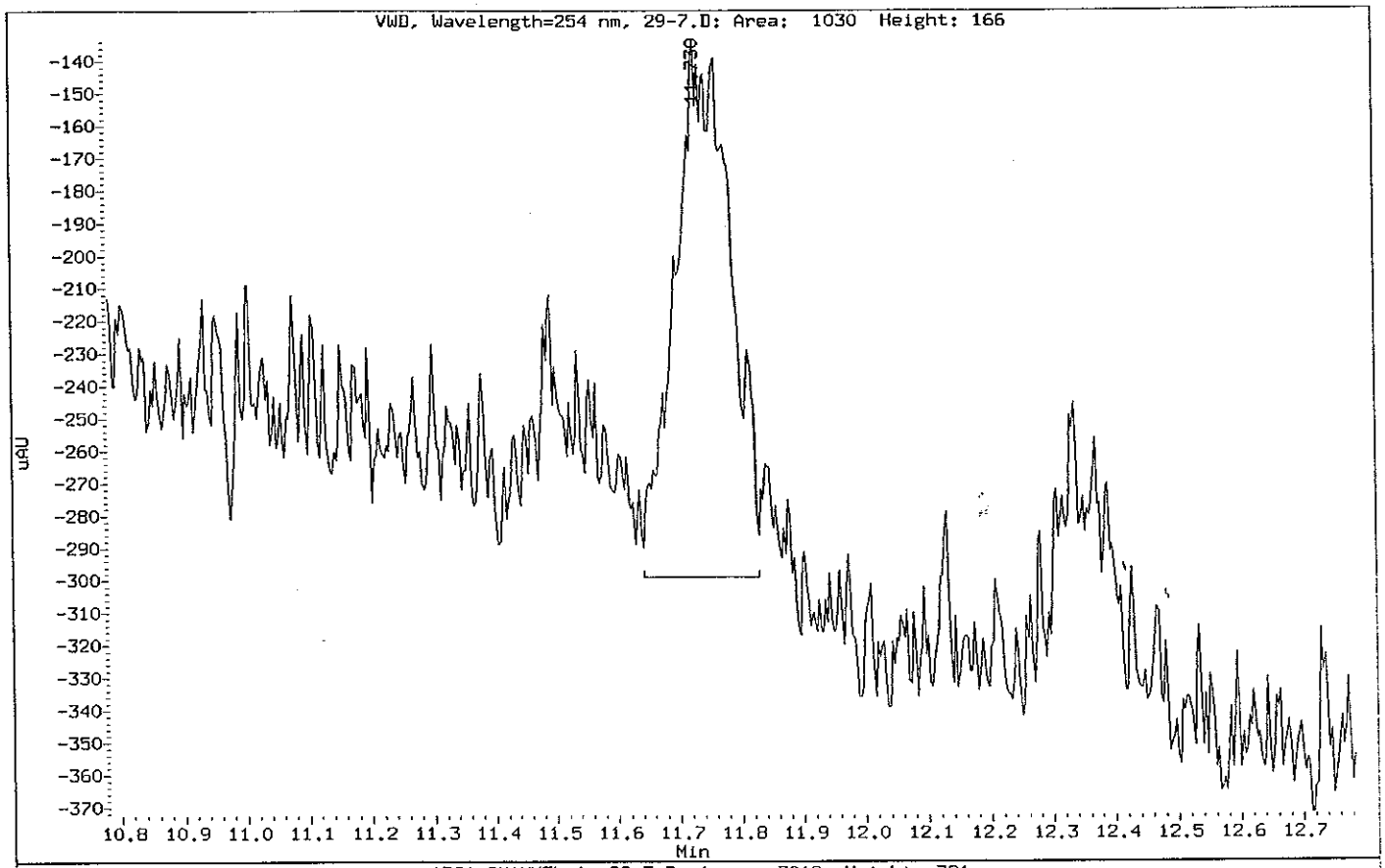
Instrument: slc02.i

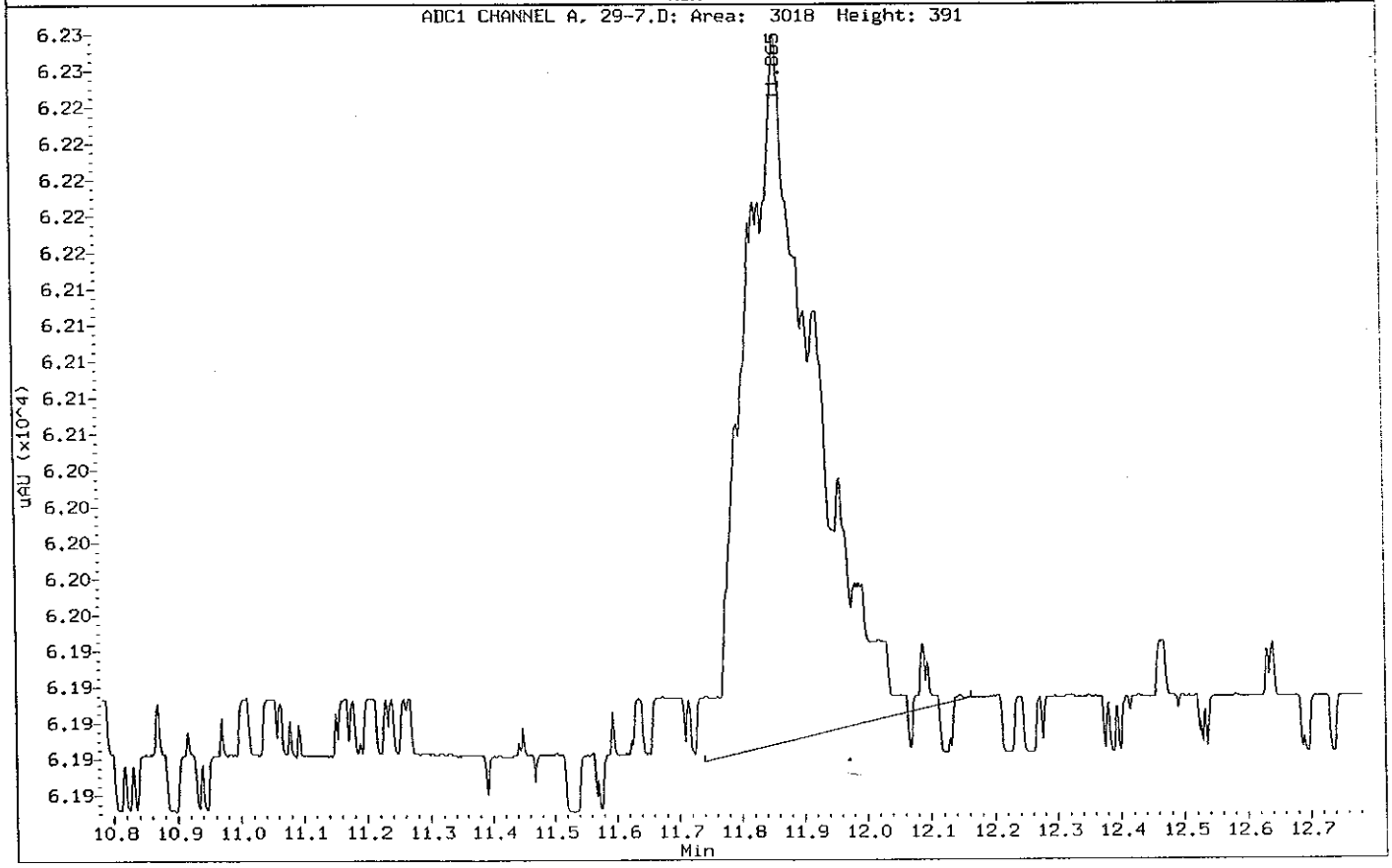
Operator: ROOD
Column diameter: 4.60



Data File: \\SVHPLC\ee\chem\slc02.i\L2051402A.B\29-7.D
Injection Date: 15-MAY-2002 01:56
Instrument: slc02.i
Client Sample ID: 062CEF4333N

Compound: Naphthalene
CAS Number: 91-20-3





PEL Laboratories, Inc.

Data file : \\SVHPLC\ee\chem\slc02.i\L2051402A.B\29-8.D
Lab Smp Id: 220402908 Client Smp ID: 062CEF4338N
Inj Date : 15-MAY-2002 02:31
Operator : ROOD Inst ID: slc02.i
Smp Info : 220402908
Misc Info :
Comment :
Method : \\SVHPLC\ee\chem\slc02.i\L2051402A.B\8310AE.m
Meth Date : 17-May-2002 13:15 tscott Quant Type: ESTD
Cal Date : 22-APR-2002 15:32 Cal File: 30STD.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: lowcalwrl.sub
Target Version: 4.04 Sample Matrix: WATER
Processing Host: SVHPLC

Concentration Formula: Amt * DF * 1/(Vo/1000)*Vt

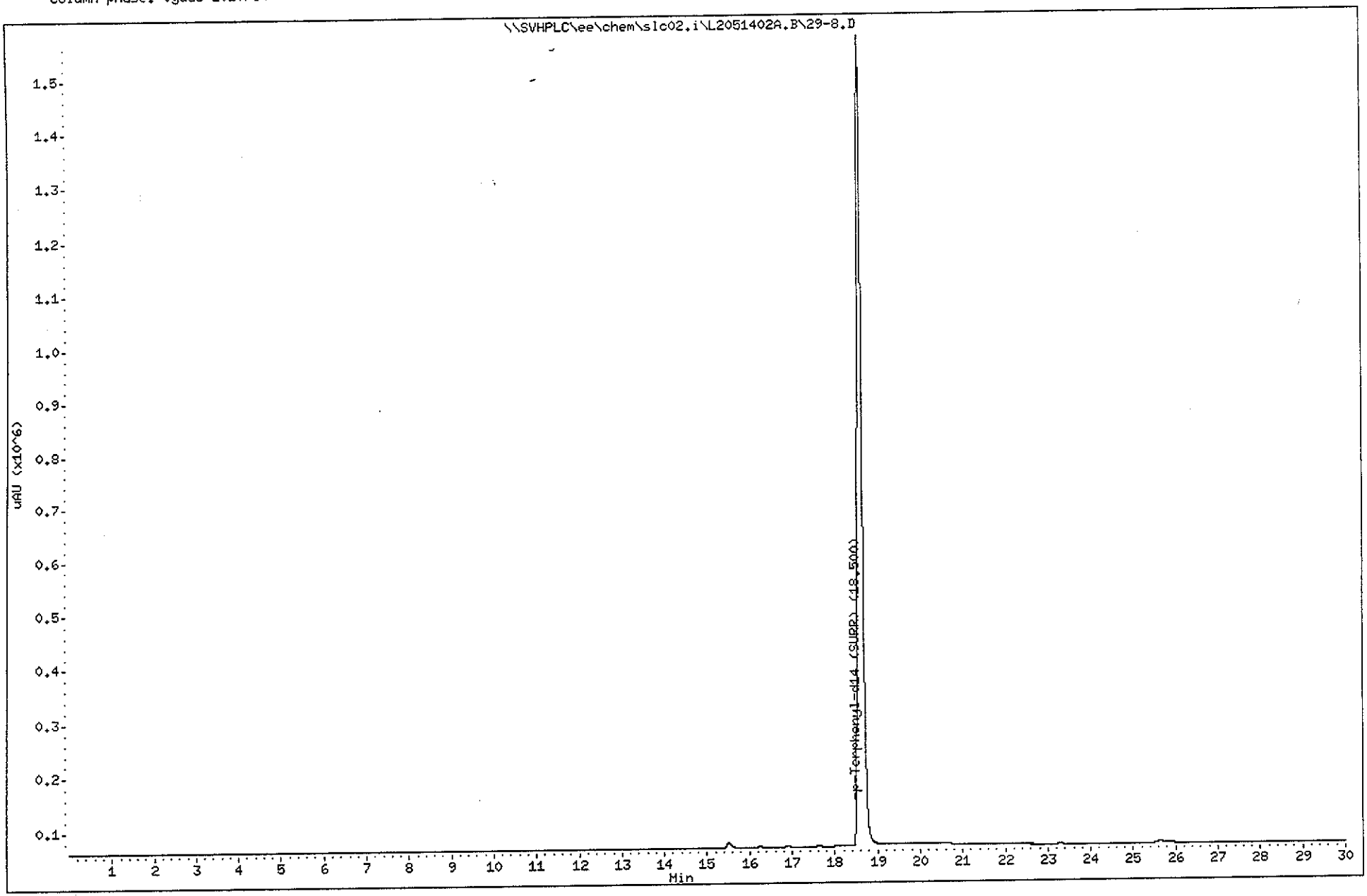
Name	Value	Description
DF	1.000	Dilution Factor
Vo	950.000	Volume Extracted
Vt	1.000	

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	SIGNAL	RESPONSE	(ug/ml)	(ug/l)	TARGET RANGE	RATIO
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.500	18.496	(0.004)	VWD1A	243077	17.3953	18.3	80.00- 120.00	100.00
18.598	18.496	(0.102)	ADC1A	11681354			3824.96-5737.44	4805.62

Data File: \\SVHPLC\ee\chem\slc02.i\L2051402A.B\29-8.D
Date : 15-MAY-2002 02:31
Client ID: 062CEF4338N
Sample Info: 220402908
Purge Volume: 950.0
Column phase: Vydac 201TP54

Instrument: slc02.i

Operator: ROOD
Column diameter: 4.60



PEL Laboratories, Inc.

Data file : \\SVHPLC\ee\chem\slc02.i\L2051402A.B\29-9.D
Lab Smp Id: 220402909 Client Smp ID: 062DUPQ220249
Inj Date : 15-MAY-2002 03:05
Operator : ROOD Inst ID: slc02.i
Smp Info : 220402909
Misc Info :
Comment :
Method : \\SVHPLC\ee\chem\slc02.i\L2051402A.B\8310AE.m
Meth Date : 17-May-2002 13:15 tscott Quant Type: ESTD
Cal Date : 22-APR-2002 15:32 Cal File: 30STD.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: lowcalwrl.sub
Target Version: 4.04 Sample Matrix: WATER
Processing Host: SVHPLC

Concentration Formula: Amt * DF * 1/(Vo/1000)*Vt

Name	Value	Description
DF	1.000	Dilution Factor
Vo	954.000	Volume Extracted
Vt	1.000	

RT	EXP RT	DLT RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/l)	TARGET RANGE	RATIO	
2 Naphthalene						CAS #: 91-20-3			
11.760	11.753	(0.007)	VWD1A	6877	1.31872	1.4	80.00- 120.00	100.00(M)	TB
11.855	11.753	(0.102)	ADC1A	17891			215.34- 323.02	260.16	
3 Acenaphthylene						CAS #: 208-96-8			
12.966	12.963	(0.003)	VWD1A	1774	0.45159	0.47			
4 1-Methyl naphthalene						CAS #: 90-12-0			
13.603	13.593	(0.010)	VWD1A	5768			80.00- 120.00	100.00'M	TB
13.683	13.593	(0.090)	ADC1A	26883	1.51387	1.6	432.20- 648.30	466.07	
5 2-Methyl naphthalene						CAS #: 91-57-6			
13.936	13.926	(0.010)	VWD1A	8833	2.01516	2.1	80.00- 120.00	100.00(Q)	
14.011	13.926	(0.085)	ADC1A	82723			458.09- 687.14	936.52	

RT	EXP RT	DLT RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	CONCENTRATIONS FINAL (ug/l)	TARGET RANGE	RATIO	
7 Fluorene						CAS #: 86-73-7			
14.623	14.613	(0.010)	VWD1A	5002	0.21151	0.22			(M)
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0			
18.510	18.496	(0.014)	VWD1A	244492	17.4966	18.3	80.00- 120.00	100.00	
18.603	18.496	(0.107)	ADC1A	11759195			3824.96-5737.44	4809.64	

T3

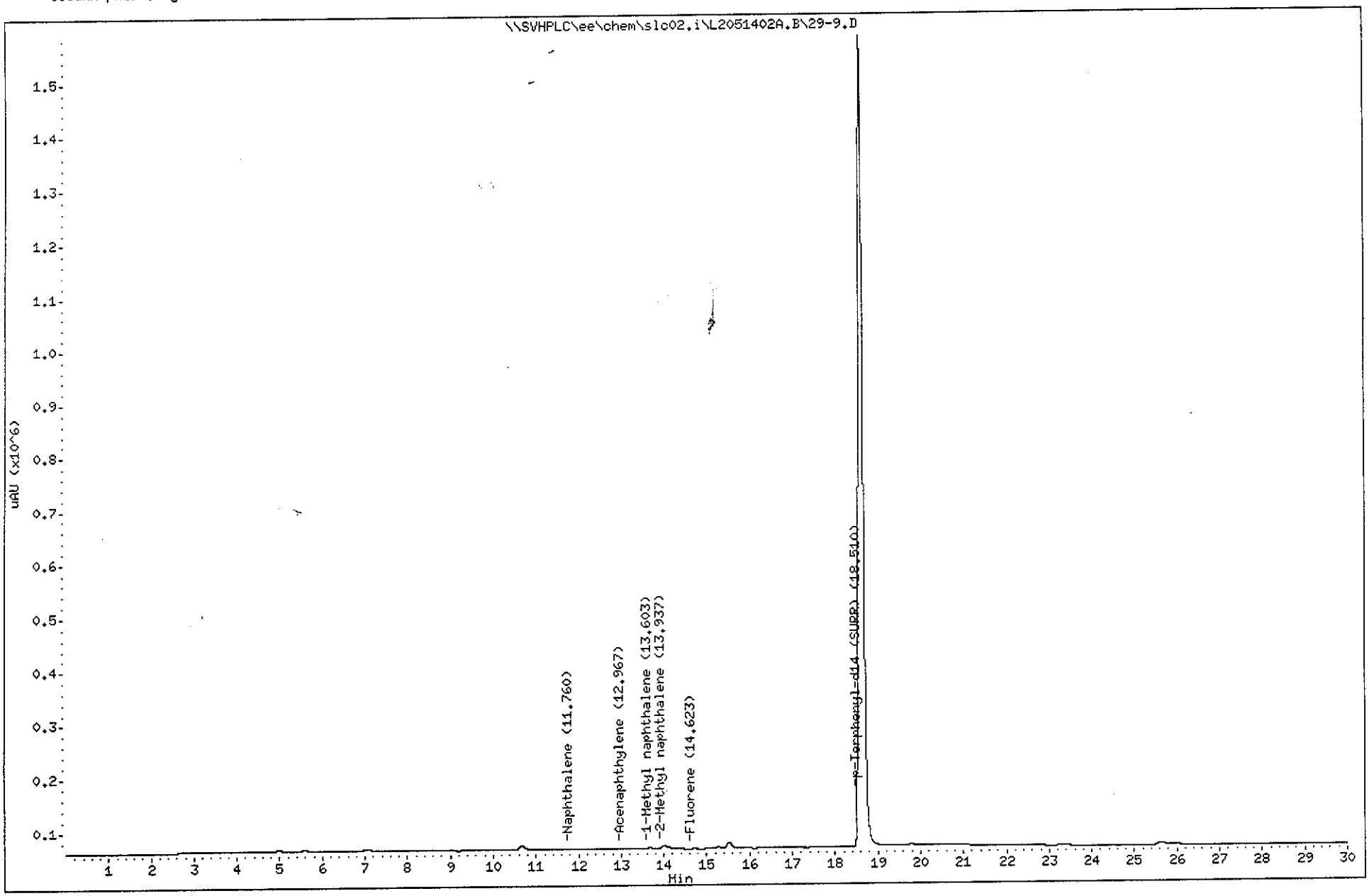
QC Flag Legend

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

Data File: \\SVHPLC\ee\chem\slc02.i\L2051402A.B\29-9.D
Date : 15-MAY-2002 03:05
Client ID: 062DUPQ220249
Sample Info: 220402909
Purge Volume: 954.0
Column phase: Vydac 201TP54

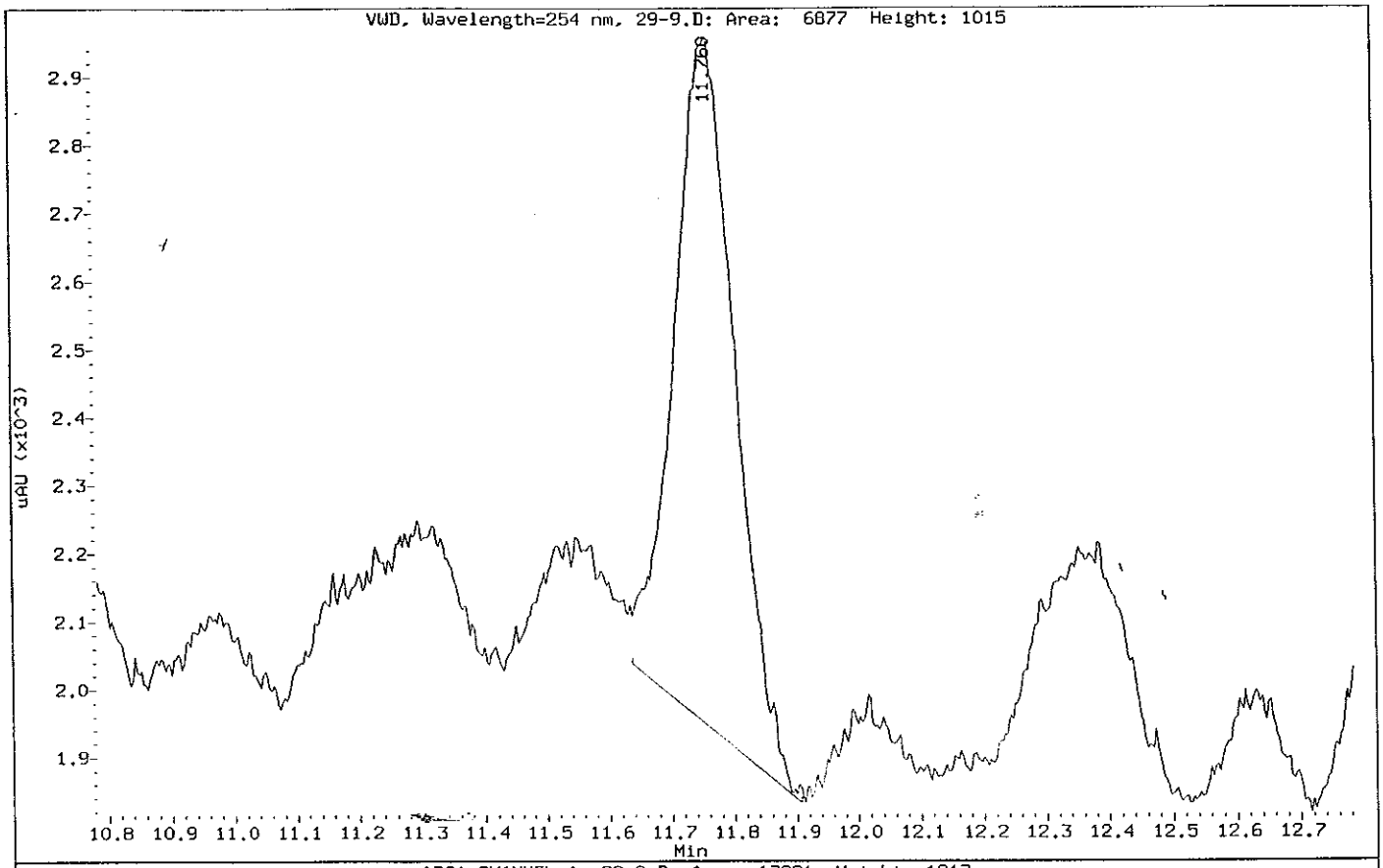
Instrument: slc02.i

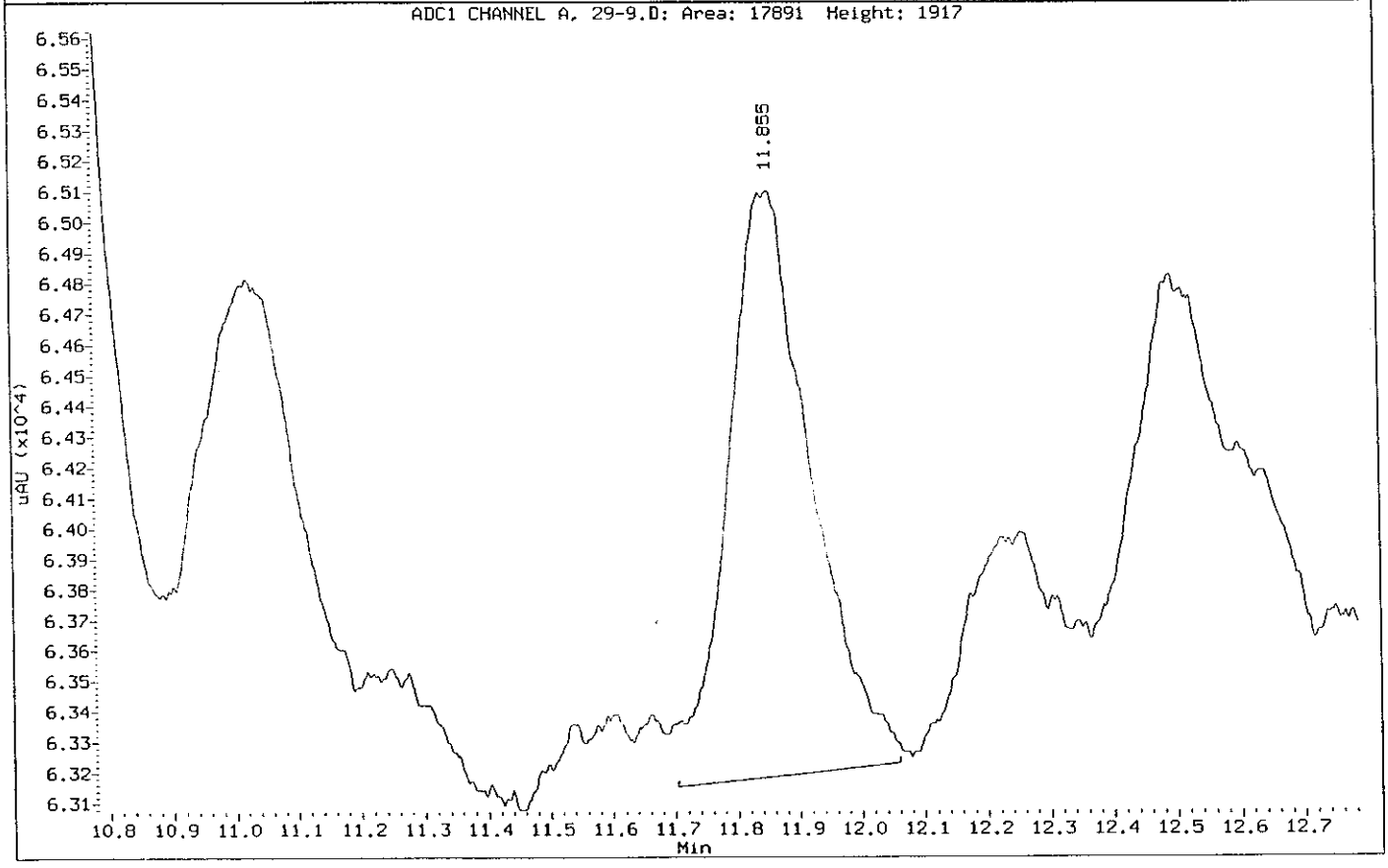
Operator: ROOD
Column diameter: 4.60



Data File: \\SVHPLC\ee\chem\slc02.i\L2051402A.B\29-9.D
Injection Date: 15-MAY-2002 03:05
Instrument: slc02.i
Client Sample ID: 062DUPQ220249

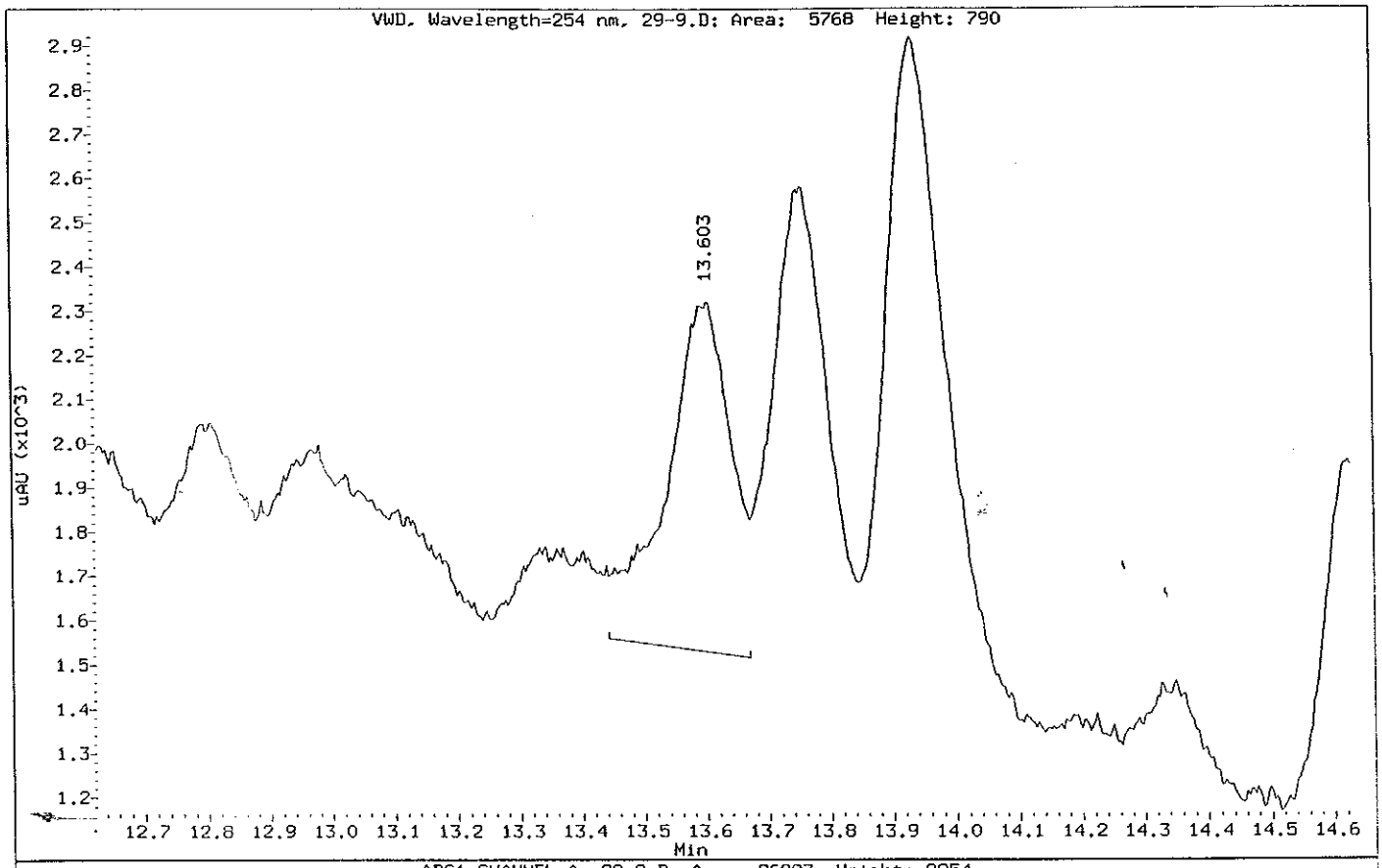
Compound: Naphthalene
CAS Number: 91-20-3

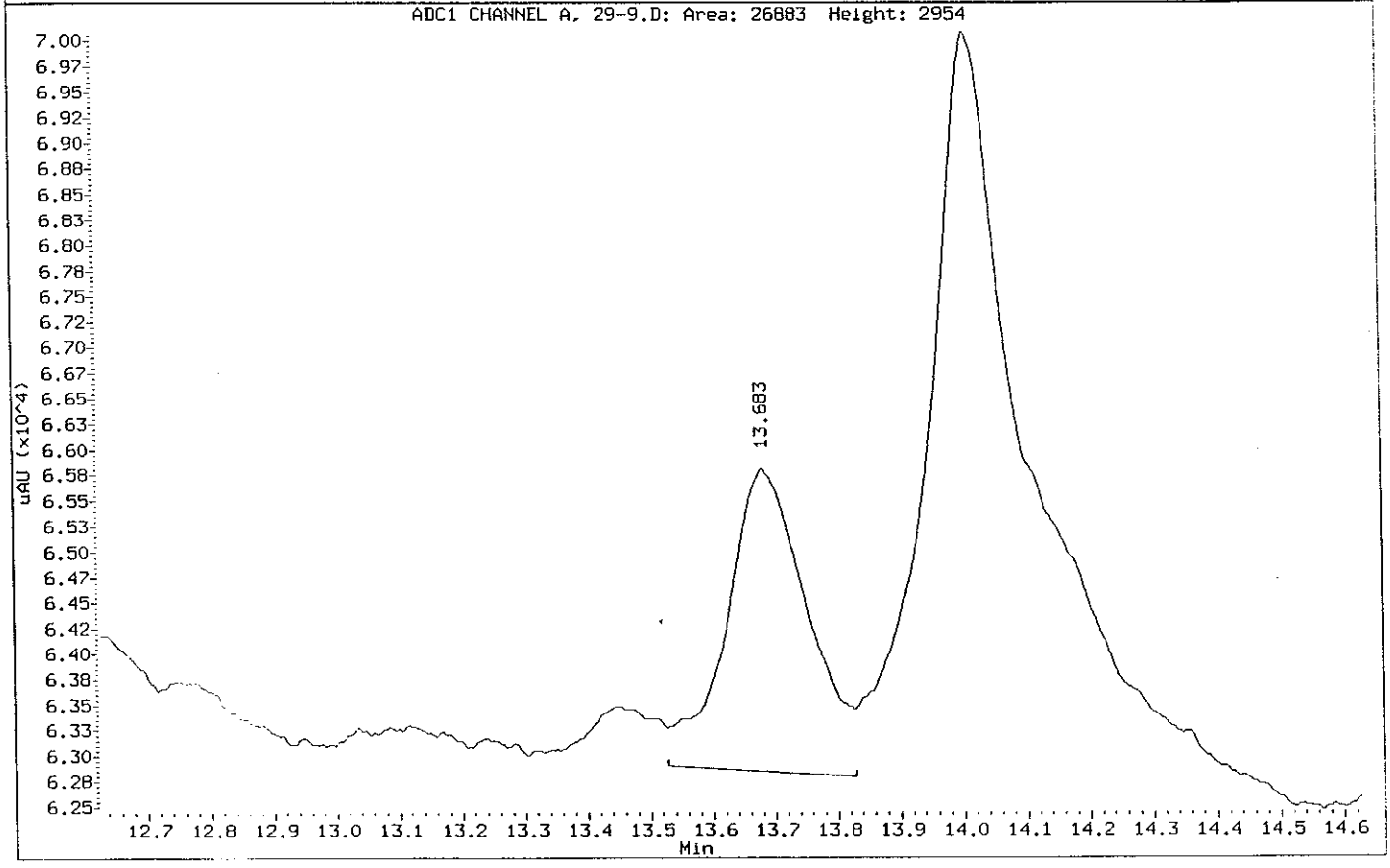




Data File: \\SVHPLC\ee\chem\slc02.i\L2051402A.B\29-9.D
Injection Date: 15-MAY-2002 03:05
Instrument: slc02.i
Client Sample ID: 062DUPQ220249

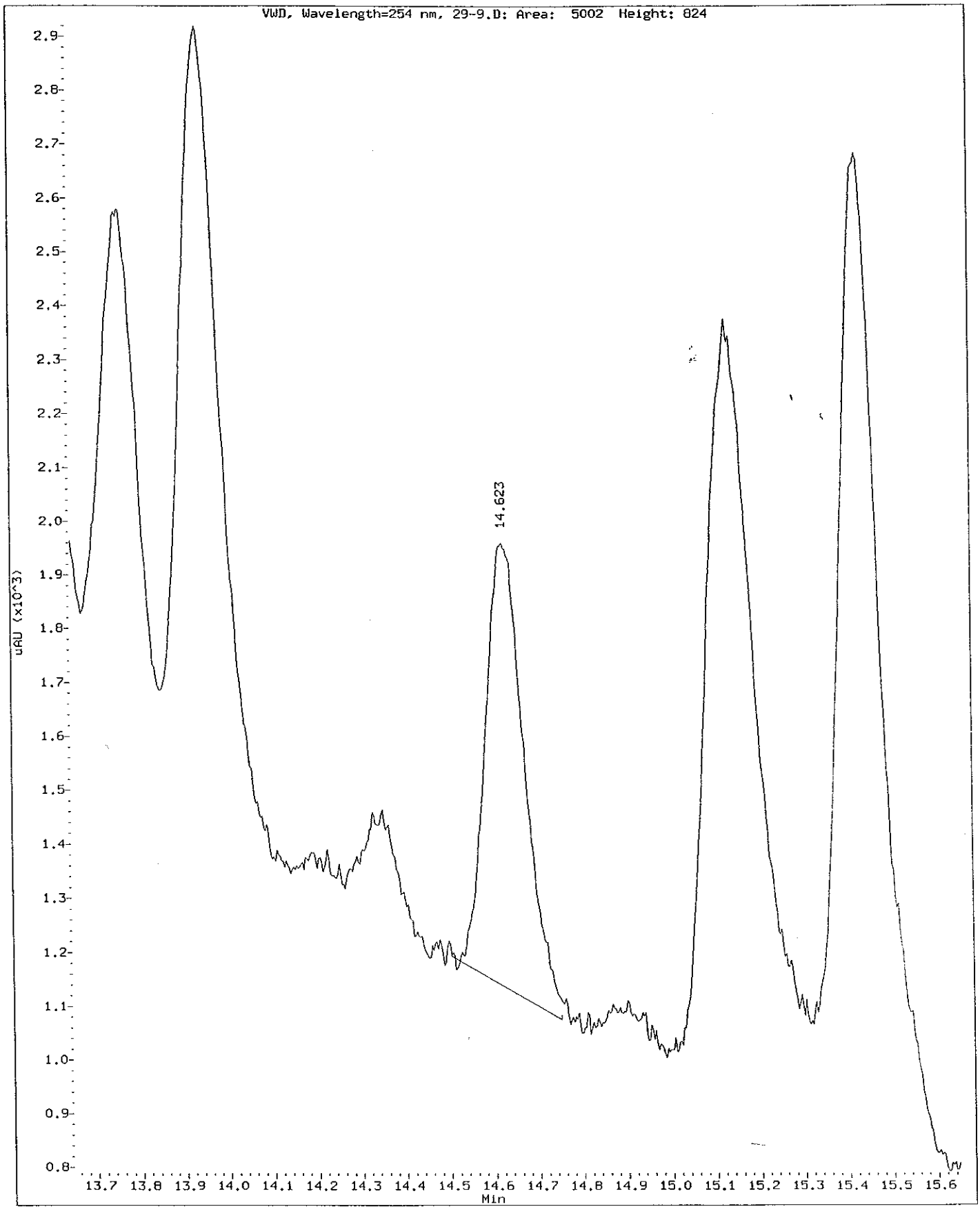
Compound: 1-Methyl naphthalene
CAS Number: 90-12-0





Data File: \\SVHPLC\ee\chem\slc02.i\L2051402A.B\29-9.D
Injection Date: 15-MAY-2002 03:05
Instrument: slc02.i
Client Sample ID: 062DUPQ220249

Compound: Fluorene
CAS Number: 86-73-7



PEL Laboratories, Inc.

Data file : \\SVHPLC\ee\chem\slc02.i\L2051402A.B\29-10.D
Lab Smp Id: 220402910 Client Smp ID: 062EQBQ20249
Inj Date : 15-MAY-2002 03:40
Operator : ROOD Inst ID: slc02.i
Smp Info : 220402910
Misc Info :
Comment :
Method : \\SVHPLC\ee\chem\slc02.i\L2051402A.B\8310AE.m
Meth Date : 17-May-2002 13:15 tscott Quant Type: ESTD
Cal Date : 22-APR-2002 15:32 Cal File: 30STD.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: lowcalwrl.sub
Target Version: 4.04 Sample Matrix: WATER
Processing Host: SVHPLC

Concentration Formula: Amt * DF * 1/(Vo/1000)*Vt

Name	Value	Description
DF	1.000	Dilution Factor
Vo	900.000	Volume Extracted
Vt	1.000	

RT	EXP RT	DLT RT	SIGNAL	RESPONSE	CONCENTRATIONS ON-COL (ug/ml)	FINAL (ug/l)	TARGET RANGE	RATIO
2 Naphthalene						CAS #: 91-20-3		
11.753	11.753	(0.000)	VWD1A	1648	0.31602	0.35	80.00- 120.00	100.00(QM)
11.860	11.753	(0.107)	ADC1A	7306			215.34- 323.02	443.33
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.520	18.496	(0.024)	VWD1A	137475	9.83812	10.9	80.00- 120.00	100.00
18.615	18.496	(0.119)	ADC1A	6559199			3824.96-5737.44	4771.19

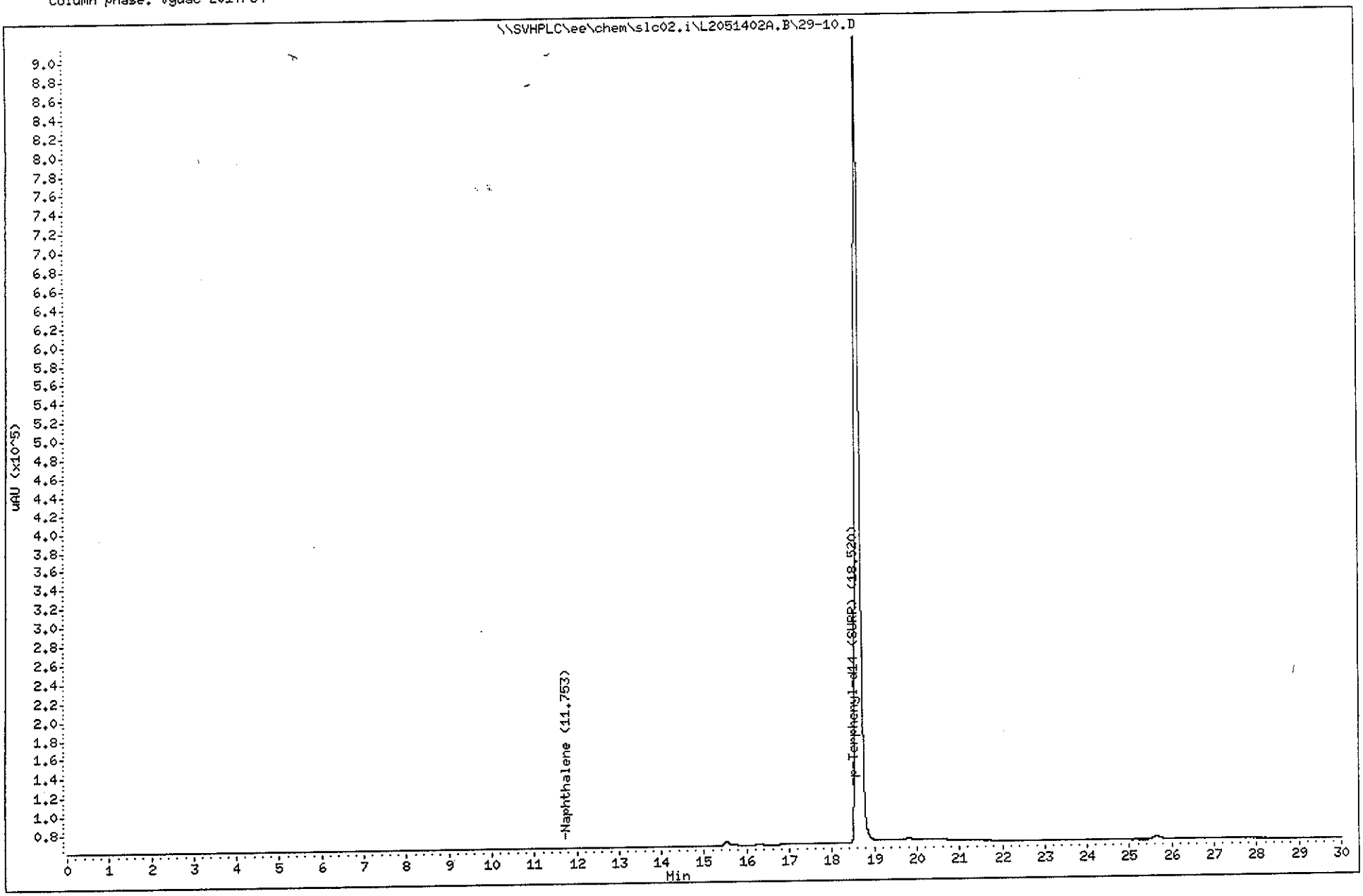
QC Flag Legend

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

Data File: \\SVHPLC\ee\chem\slc02.i\L2051402A.B\29-10.D
Date : 15-MAY-2002 03:40
Client ID: 062EQBQ20249
Sample Info: 220402910
Purge Volume: 900.0
Column phase: Vydac 201TP54

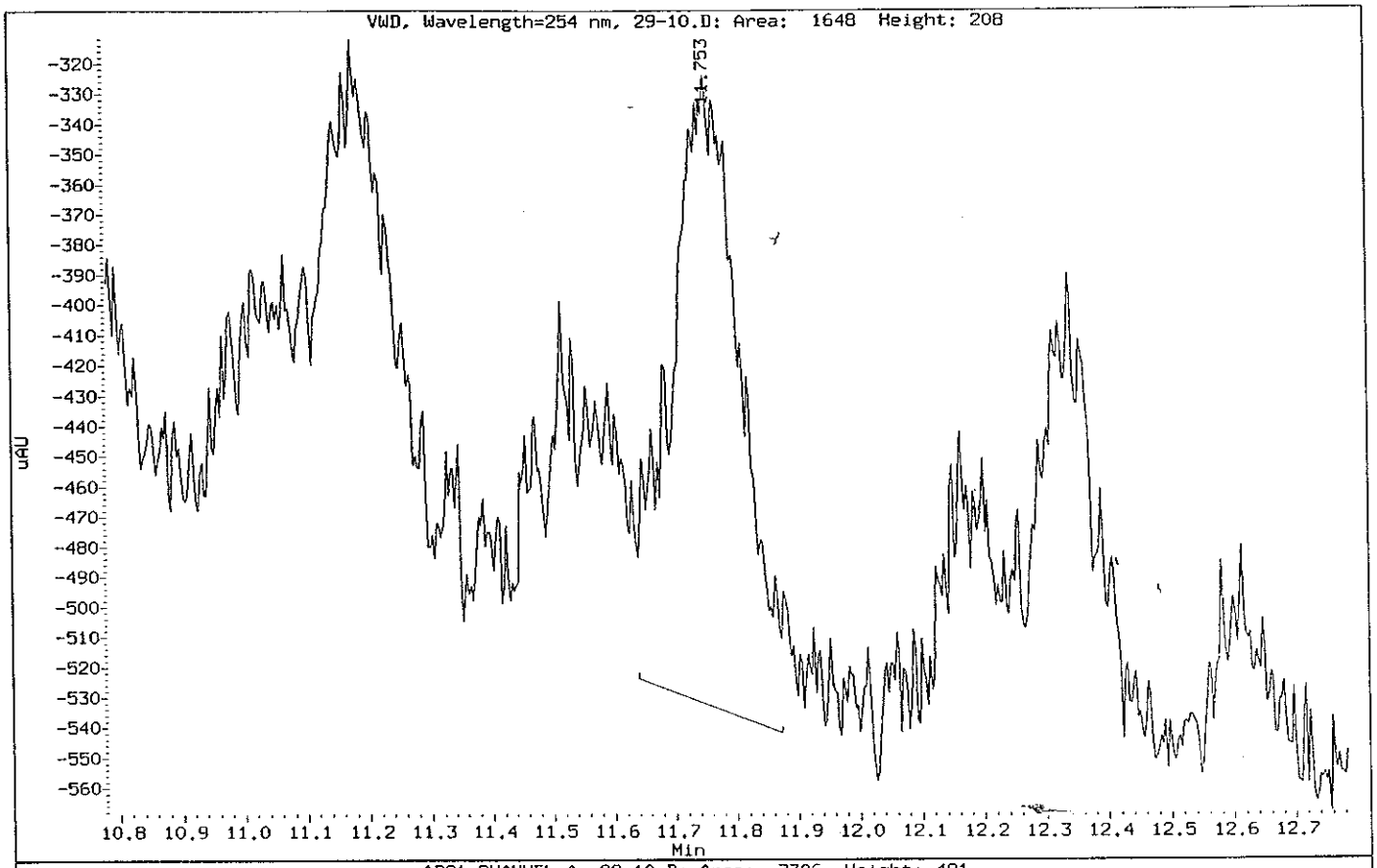
Instrument: slc02.i

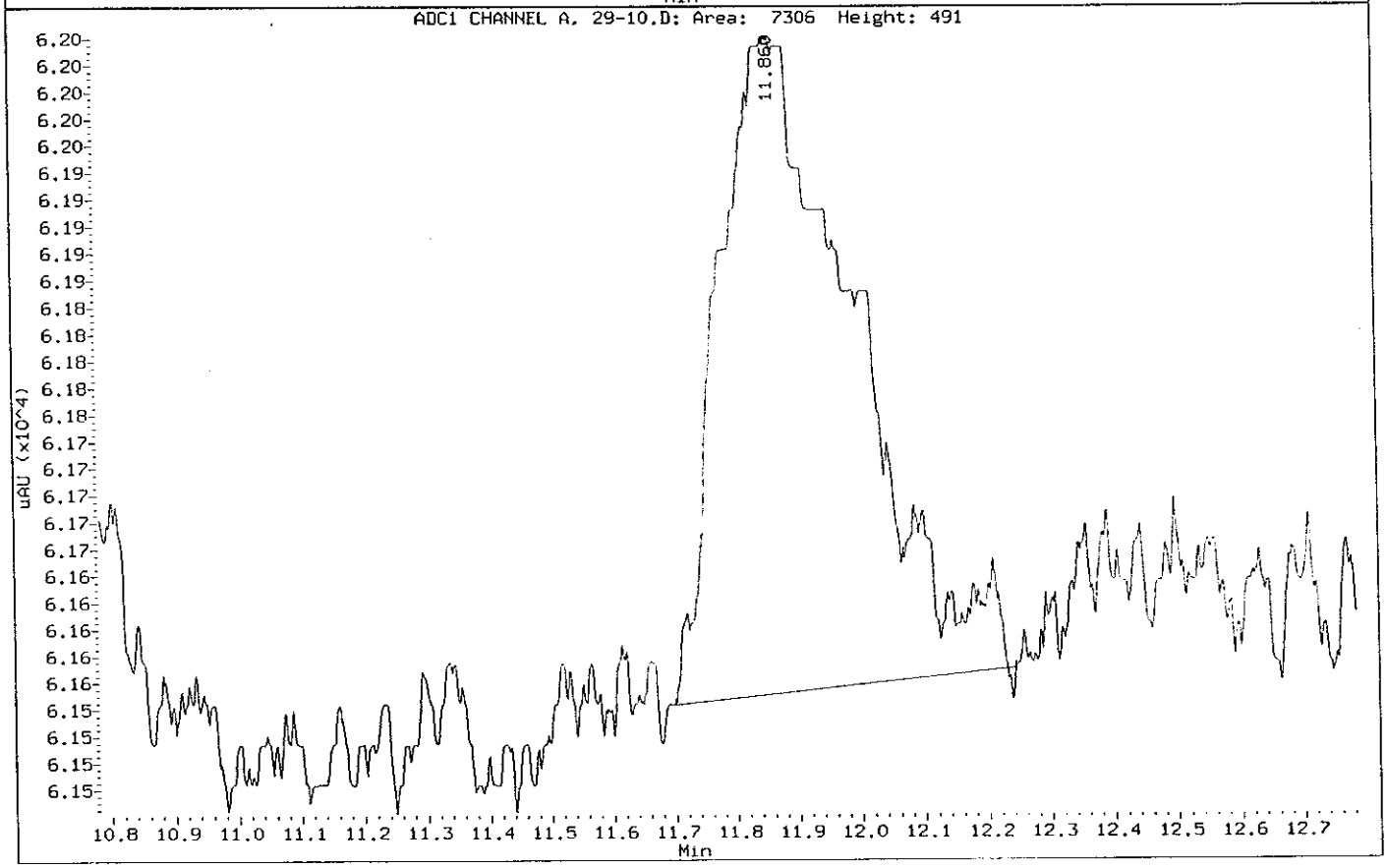
Operator: ROOD
Column diameter: 4.60



Data File: \\SVHPLC\ee\chem\slc02.i\L2051402A.B\29-10.D
Injection Date: 15-MAY-2002 03:40
Instrument: slc02.i
Client Sample ID: 062EQBQ20249

Compound: Naphthalene
CAS Number: 91-20-3





PEL Laboratories, Inc.

Data file : \\SVHPLC\ee\chem\slc02.i\L2051402A.B\CCV41.D
Lab Smp Id: SV4942 Client Smp ID: CCV41
Inj Date : 15-MAY-2002 06:33
Operator : ROOD Inst ID: slc02.i
Smp Info : SV4942
Misc Info :
Comment :
Method : \\SVHPLC\ee\chem\slc02.i\L2051402A.B\8310AE.m
Meth Date : 17-May-2002 13:48 tscott Quant Type: ESTD
Cal Date : 22-APR-2002 15:32 Cal File: 30STD.D
Als bottle: 21 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.04 Sample Matrix: WATER
Processing Host: SVHPLC

Concentration Formula: Amt * DF * 1/(Vo/1000)*Vt

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume Extracted
Vt	1.000	

					AMOUNTS CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	SIGNAL	RESPONSE	(ug/ml)	(ug/ml)	TARGET RANGE	RATIO
2 Naphthalene						CAS #: 91-20-3		
11.736	11.736	(0.000)	VWD1A	76069	15.0000	14.6	80.00- 120.00	100.00
11.827	11.827	(0.000)	ADC1A	204539			215.11- 322.66	268.89
3 Acenaphthylene						CAS #: 208-96-8		
12.956	12.956	(0.000)	VWD1A	58164	15.0000	14.8		
4 1-Methyl naphthalene						CAS #: 90-12-0		
13.586	13.586	(0.000)	VWD1A	46574			80.00- 120.00	100.00
13.676	13.676	(0.000)	ADC1A	252426	15.0000	14.2	433.59- 650.39	541.99
5 2-Methyl naphthalene						CAS #: 91-57-6		
13.920	13.920	(0.000)	VWD1A	65729	15.0000	15.0	80.00- 120.00	100.00
14.009	14.009	(0.000)	ADC1A	378956			461.23- 691.85	576.54

RT	EXP RT	DLT RT	SIGNAL	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
6 Acenaphthene							CAS #: 83-32-9	
14.253	14.253	(0.000)	VWD1A	28740			80.00- 120.00	100.00
14.344	14.344	(0.000)	ADC1A	330699	15.0000	14.2	920.53-1380.79	1150.66
7 Fluorene							CAS #: 86-73-7	
14.606	14.606	(0.000)	VWD1A	346295	15.0000	14.6		
8 Phenanthrene							CAS #: 85-01-8	
15.413	15.413	(0.000)	VWD1A	972644			80.00- 120.00	100.00
15.504	15.504	(0.000)	ADC1A	8234010	15.0000	14.6	677.25-1015.87	846.56
9 Anthracene							CAS #: 120-12-7	
16.136	16.136	(0.000)	VWD1A	2167274	15.0000	15.2	80.00- 120.00	100.00(M)
16.246	16.246	(0.000)	ADC1A	17318478			639.27- 958.91	799.09
10 Fluoranthene							CAS #: 206-44-0	
16.970	16.970	(0.000)	VWD1A	228500	15.0000	14.6		
11 Pyrene							CAS #: 129-00-0	
17.513	17.513	(0.000)	VWD1A	181740	15.0000	13.1	80.00- 120.00	100.00
17.607	17.607	(0.000)	ADC1A	13330798			5868.07-8802.11	7335.09
$ 12 p-Terphenyl-d14 (SURR)							CAS #: 1718-51-0	
18.506	18.506	(0.000)	VWD1A	206660	15.0000	14.8	80.00- 120.00	100.00
18.599	18.599	(0.000)	ADC1A	9905648			3834.57-5751.85	4793.21
13 Benzo(a)Anthracene							CAS #: 56-55-3	
19.303	19.303	(0.000)	VWD1A	537920	15.0000	14.6	80.00- 120.00	100.00
19.399	19.399	(0.000)	ADC1A	8842705			1315.10-1972.64	1643.87
14 Chrysene							CAS #: 218-01-9	
19.693	19.693	(0.000)	VWD1A	764456	15.0000	14.8	80.00- 120.00	100.00(M)
19.819	19.819	(0.000)	ADC1A	19253286			2014.85-3022.27	2518.56
15 Benzo(b)Fluoranthene							CAS #: 205-99-2	
21.110	21.110	(0.000)	VWD1A	589663	15.0000	14.4	80.00- 120.00	100.00(M)
21.207	21.207	(0.000)	ADC1A	683303			92.70- 139.06	115.88
16 Benzo(k)Fluoranthene							CAS #: 207-08-9	
21.726	21.726	(0.000)	VWD1A	447947	15.0000	14.5	80.00- 120.00	100.00
21.829	21.829	(0.000)	ADC1A	1014932			181.26- 271.89	226.57
17 Benzo(a)pyrene							CAS #: 50-32-8	
22.323	22.323	(0.000)	VWD1A	541313			80.00- 120.00	100.00
22.426	22.426	(0.000)	ADC1A	3049426	15.0000	14.2	450.67- 676.01	563.34

					AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO
RT	EXP RT	DLT RT	SIGNAL	RESPONSE				
18 Dibenz(ah)Anthracene						CAS #: 53-70-3		
23.293	23.293	(0.000)	VWD1A	112432	15.0000	13.6	80.00- 120.00	100.00(M)
23.397	23.397	(0.000)	ADC1A	816887			581.25- 871.87	726.56
19 Benzo(ghi)Perylene						CAS #: 191-24-2		
24.030	24.030	(0.000)	VWD1A	192340	15.0000	13.5	80.00- 120.00	100.00
24.136	24.136	(0.000)	ADC1A	742392			308.78- 463.17	385.98
20 Indeno(123cd)Pyrene						CAS #: 193-39-5		
24.483	24.483	(0.000)	VWD1A	494379	15.0000	13.4		

T3

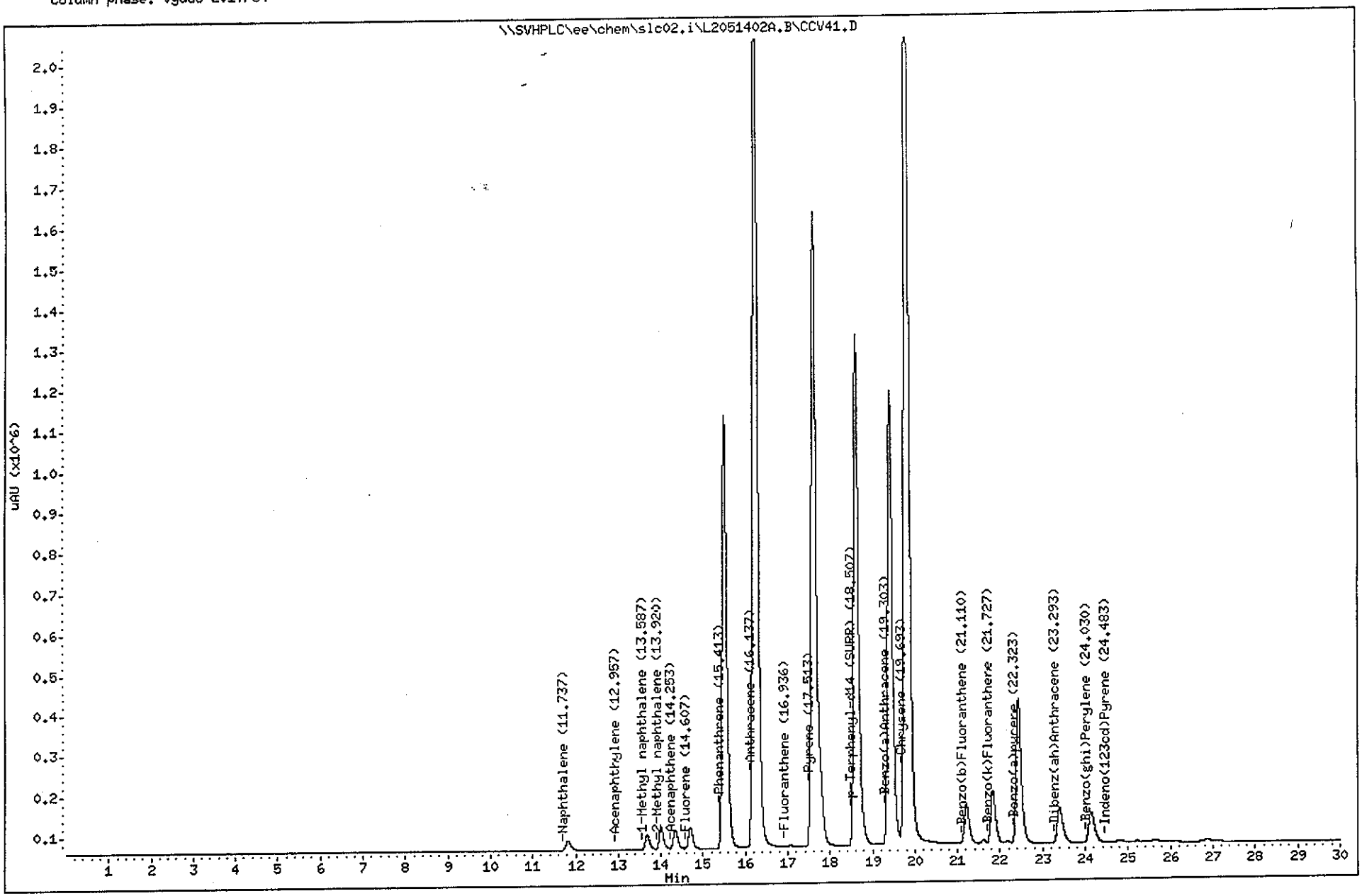
QC Flag Legend

M - Compound response manually integrated.

Data File: \\SVHPLC\ee\chem\slc02.i\L2051402A.B\CCV41.D
Date : 15-MAY-2002 06:33
Client ID: CCV41
Sample Info: SV4942
Purge Volume: 1000.0
Column phase: Vydac 201TP54

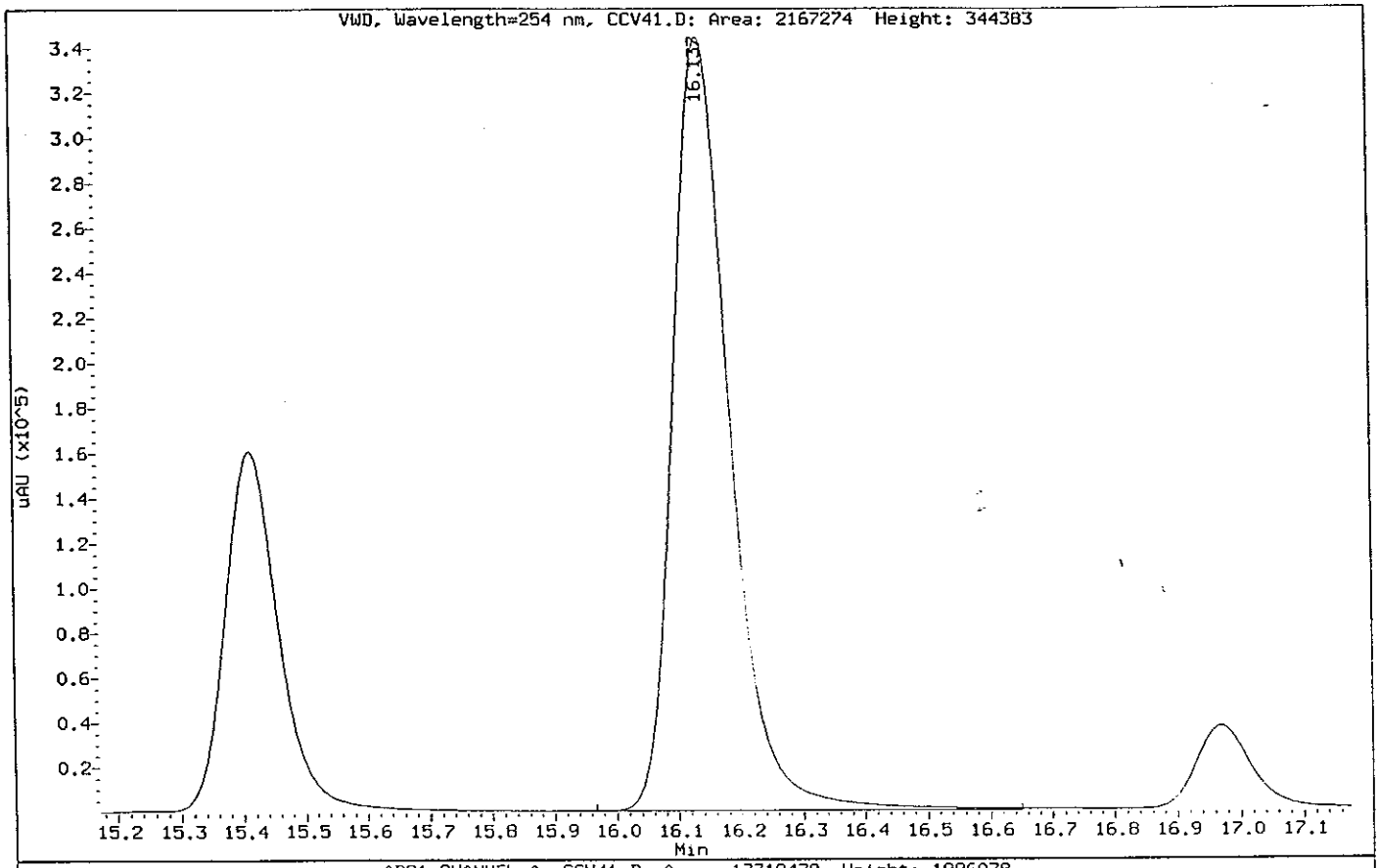
Instrument: slc02.i

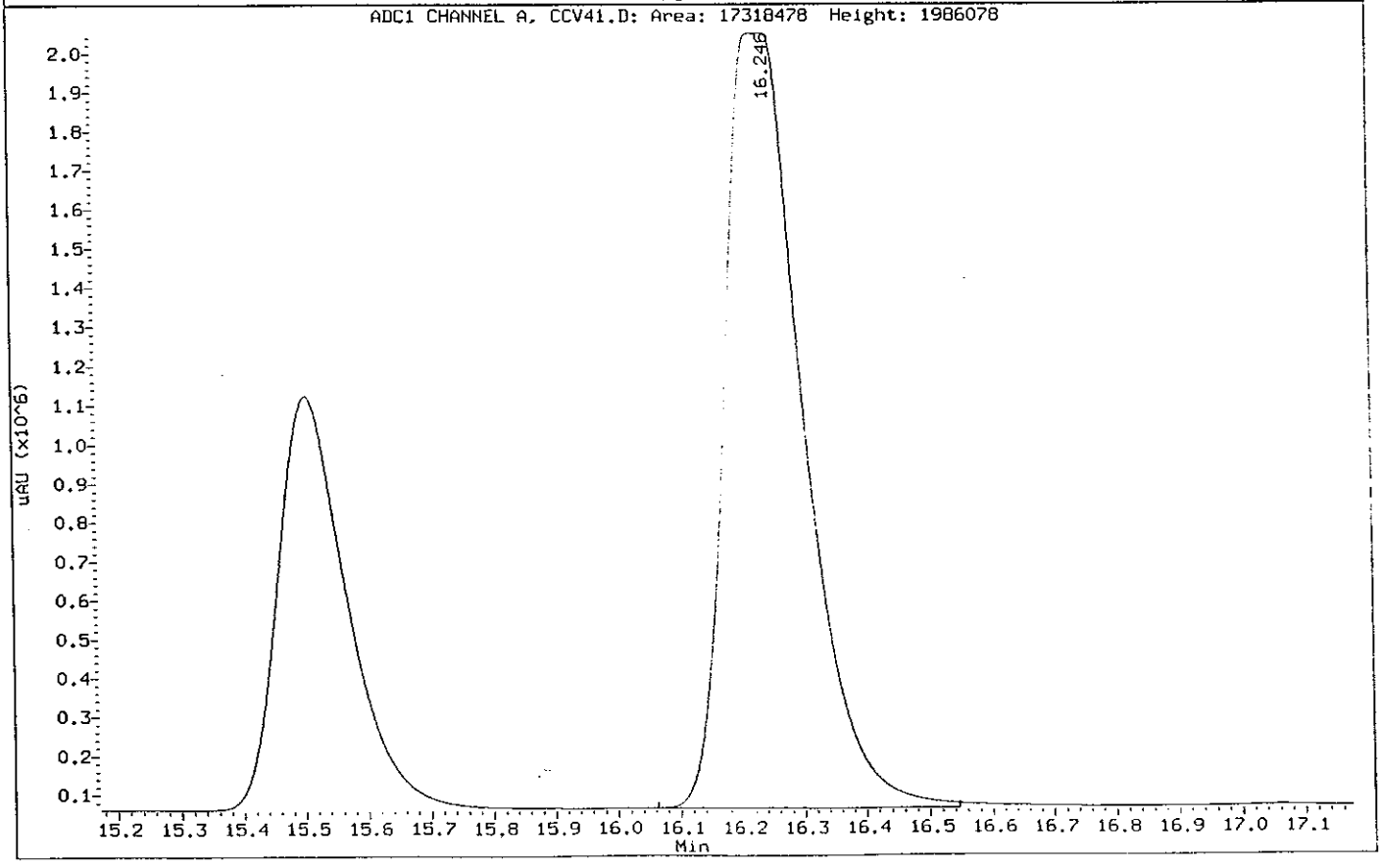
Operator: ROOD
Column diameter: 4.60



Data File: \\SVHPLC\ee\chem\slc02.i\L2051402A.B\CCV41.D
Injection Date: 15-MAY-2002 06:33
Instrument: slc02.i
Client Sample ID: CCV41

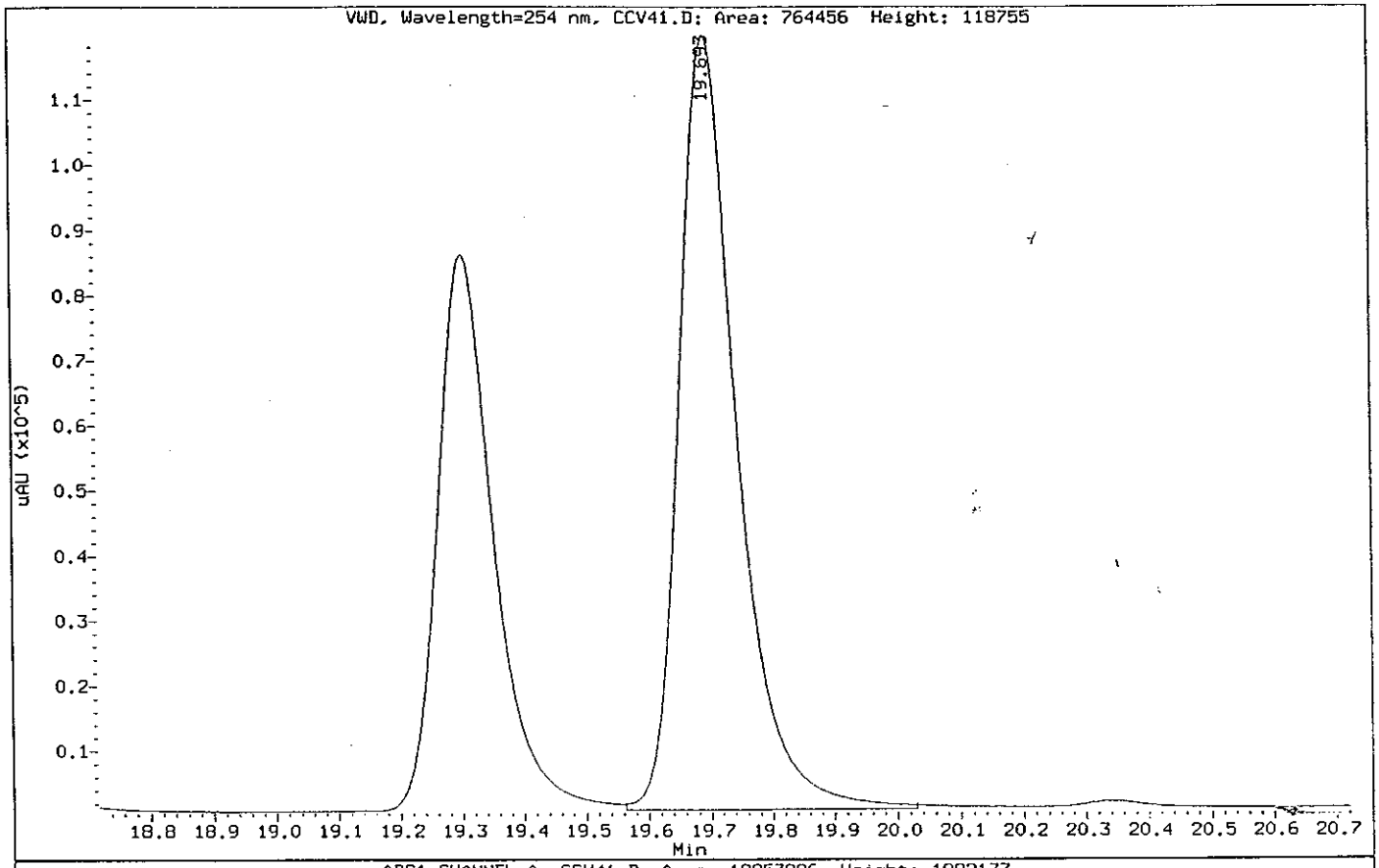
Compound: Anthracene
CAS Number: 120-12-7

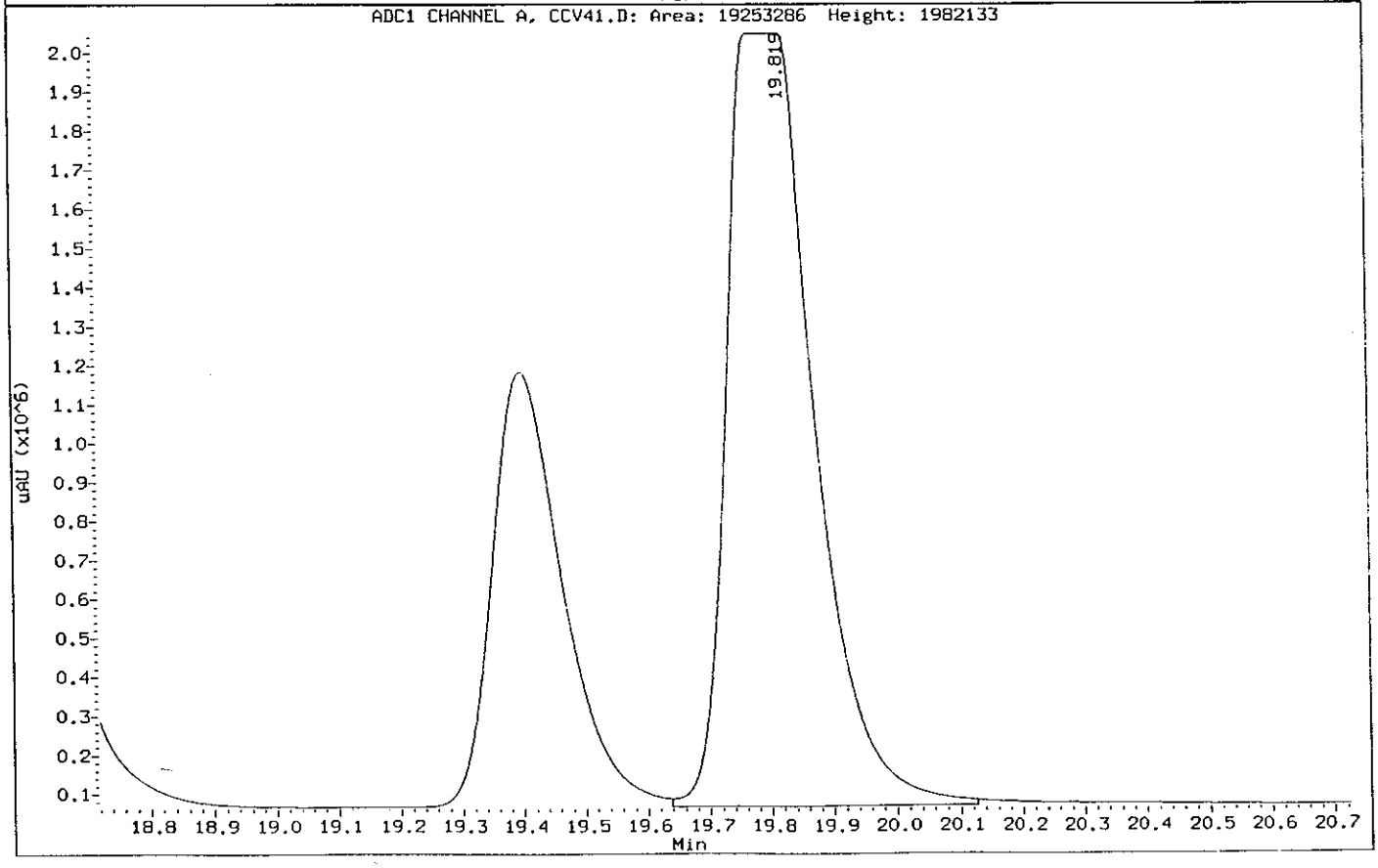




Data File: \\SVHPLC\ee\chem\slc02.i\L2051402A.B\CCV41.D
Injection Date: 15-MAY-2002 06:33
Instrument: slc02.i
Client Sample ID: CCV41

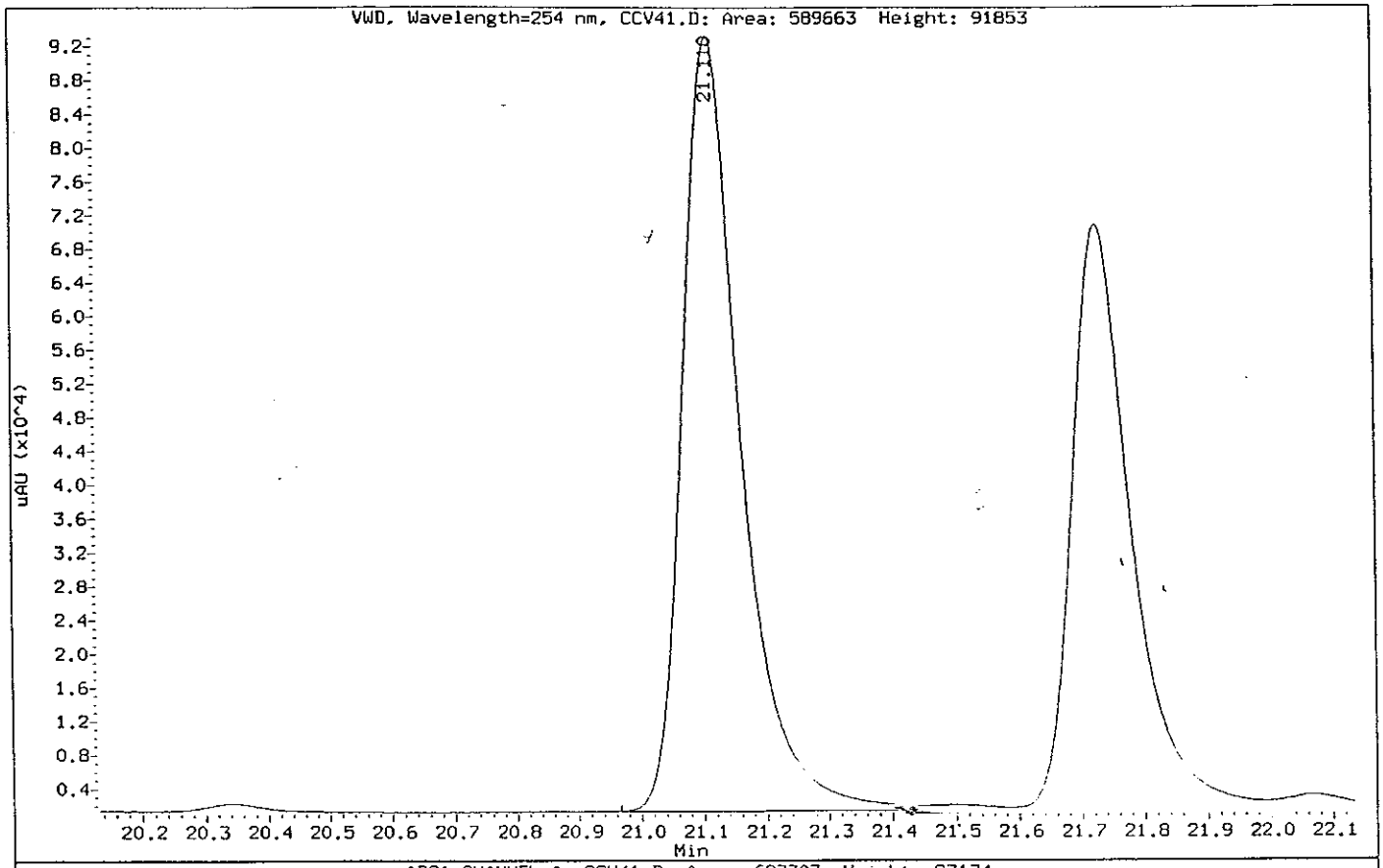
Compound: Chrysene
CAS Number: 218-01-9

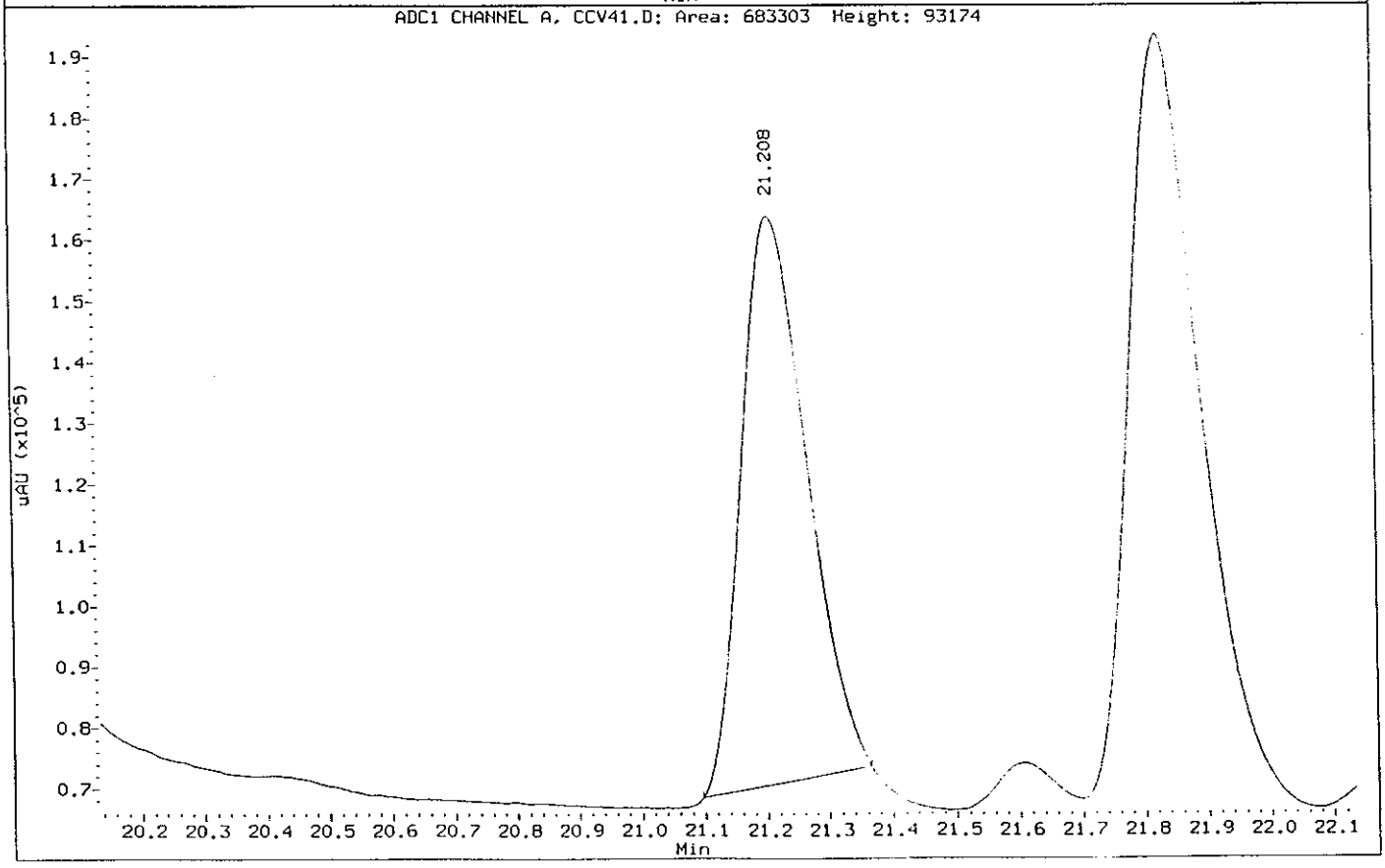




Data File: \\SVHPLC\ee\chem\slc02.i\L2051402A.B\CCV41.D
Injection Date: 15-MAY-2002 06:33
Instrument: slc02.i
Client Sample ID: CCV41

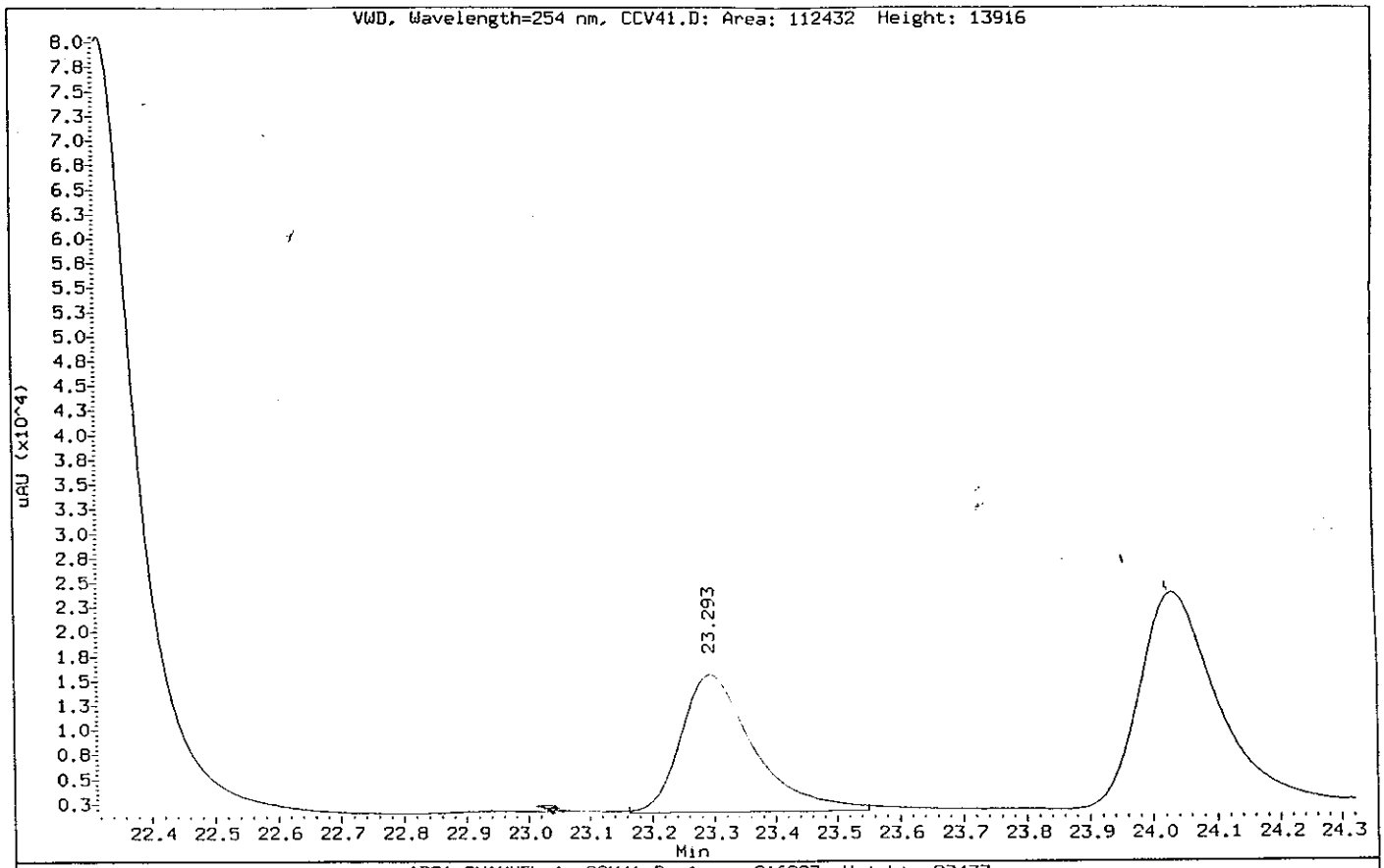
Compound: Benzo(b)Fluoranthene
CAS Number: 205-99-2

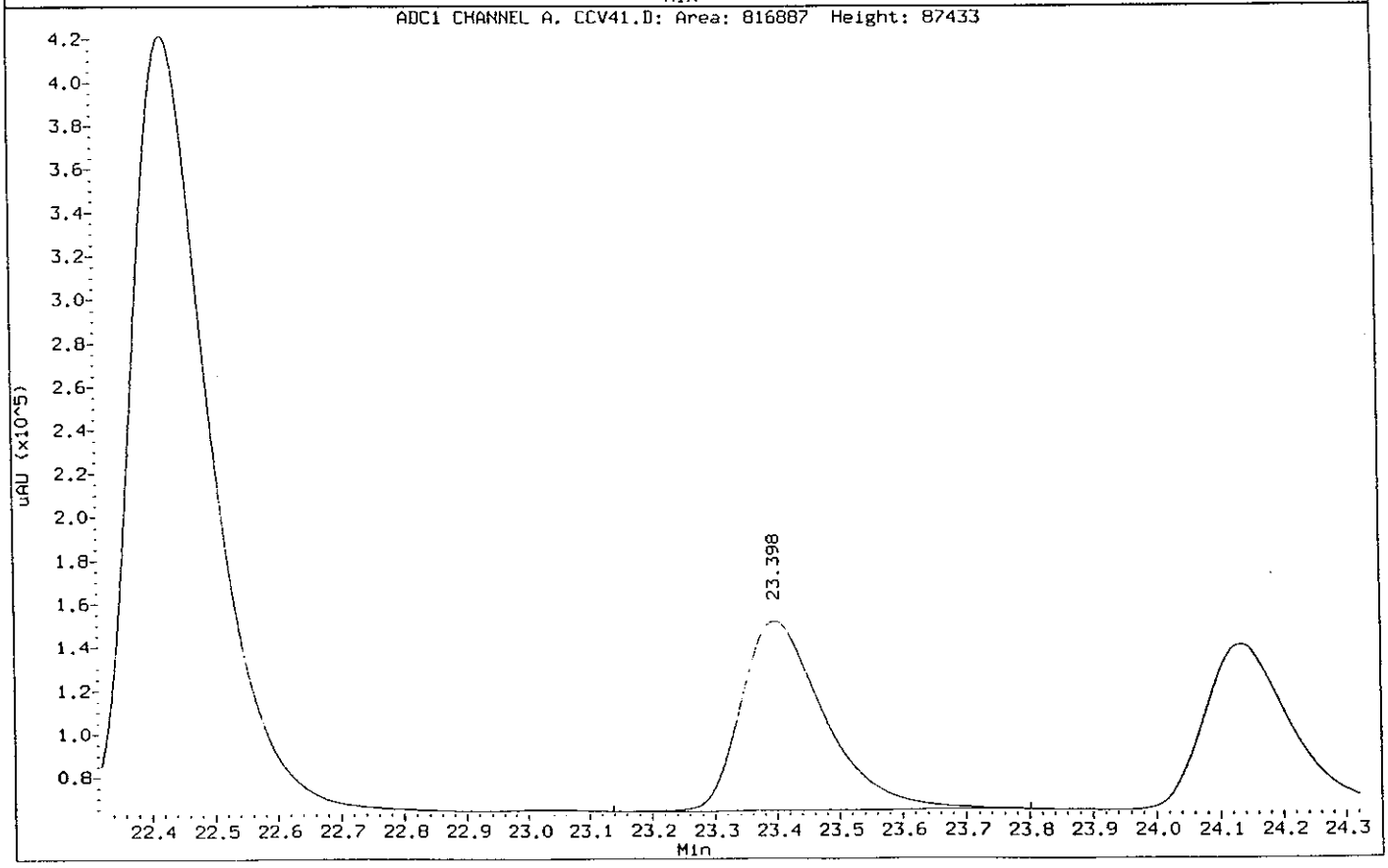




Data File: \\SVHPLC\ee\chem\slc02.i\L2051402A.B\CCV41.D
Injection Date: 15-MAY-2002 06:33
Instrument: slc02.i
Client Sample ID: CCV41

Compound: Dibenz(ah)Anthracene
CAS Number: 53-70-3





PEL Laboratories, Inc.

Data file : \\SVHPLC\ee\chem\slc02.i\L2051402A.B\514BLK.D
Lab Smp Id: 69113 Client Smp ID: 514BLK
Inj Date : 15-MAY-2002 08:06
Operator : ROOD Inst ID: slc02.i
Smp Info : 69113
Misc Info :
Comment :
Method : \\SVHPLC\ee\chem\slc02.i\L2051402A.B\8310AE.m
Meth Date : 17-May-2002 13:48 tscott Quant Type: ESTD
Cal Date : 22-APR-2002 15:32 Cal File: 30STD.D
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.04 Sample Matrix: WATER
Processing Host: SVHPLC

Concentration Formula: Amt * DF * 1/(Vo/1000)*Vt

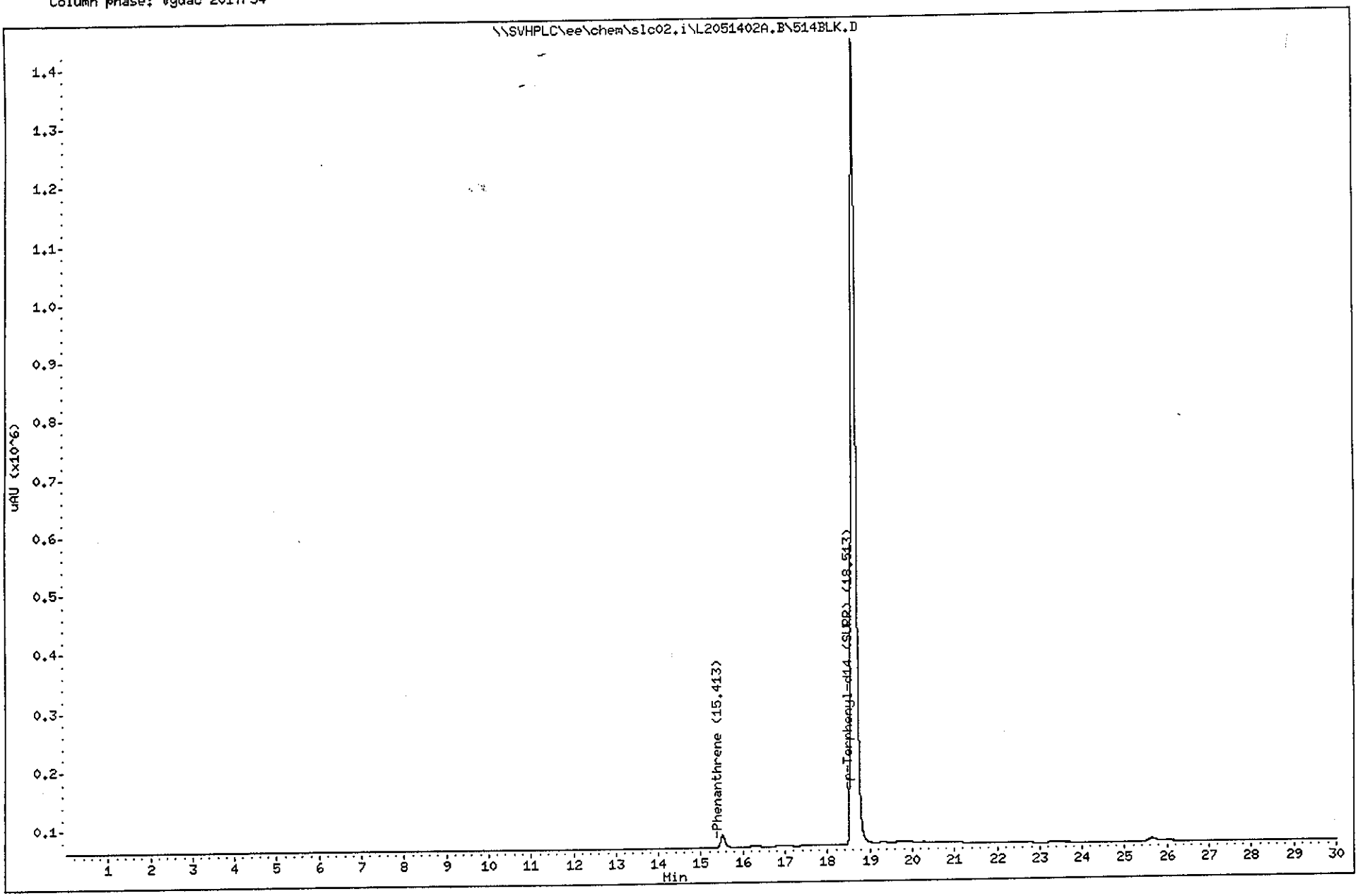
Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume Extracted
Vt	1.000	

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	SIGNAL	RESPONSE	(ug/ml)	(ug/l)	TARGET RANGE	RATIO
8 Phenanthrene						CAS #: 85-01-8		
15.413	15.413	(0.000)	VWD1A	23305			80.00- 120.00	100.00
15.506	15.504	(0.002)	ADC1A	160247	0.28463	0.28	677.25-1015.87	687.61
$ 12 p-Terphenyl-d14 (SURR)						CAS #: 1718-51-0		
18.513	18.506	(0.007)	VWD1A	222600	15.9299	15.9	80.00- 120.00	100.00
18.608	18.599	(0.009)	ADC1A	10773179			3834.57-5751.85	4839.70

Data File: \\SVHPLC\ee\chem\slc02.i\L2051402A.B\514BLK.D
Date : 15-MAY-2002 08:06
Client ID: 514BLK
Sample Info: 69113
Purge Volume: 1000.0
Column phase: Vydac 201TP54

Instrument: slc02.i

Operator: ROOD
Column diameter: 4.60



PEL Laboratories, Inc.

Data file : \\SVHPLC\ee\chem\slc02.i\L2051402A.B\CCV51.D
Lab Smp Id: SV4942 Client Smp ID: CCV51
Inj Date : 15-MAY-2002 10:24
Operator : ROOD Inst ID: slc02.i
Smp Info : SV4942
Misc Info :
Comment :
Method : \\SVHPLC\ee\chem\slc02.i\L2051402A.B\8310AE.m
Meth Date : 17-May-2002 13:48 tscott Quant Type: ESTD
Cal Date : 22-APR-2002 15:32 Cal File: 30STD.D
Als bottle: 21 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.04 Sample Matrix: WATER
Processing Host: SVHPLC

Concentration Formula: Amt * DF * 1/(Vo/1000)*Vt

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume Extracted
Vt	1.000	

					AMOUNTS			
					CAL-AMT	ON-COL		
RT	EXP RT	DLT RT	SIGNAL	RESPONSE	(ug/ml)	(ug/ml)	TARGET RANGE	RATIO
2 Naphthalene						CAS #: 91-20-3		
11.753	11.753	(0.000)	VWD1A	74266	15.0000	14.2	80.00- 120.00	100.00
11.842	11.842	(0.000)	ADC1A	199909			215.34- 323.02	269.18
3 Acenaphthylene						CAS #: 208-96-8		
12.963	12.963	(0.000)	VWD1A	55507	15.0000	14.1		
4 1-Methyl naphthalene						CAS #: 90-12-0		
13.593	13.593	(0.000)	VWD1A	45804			80.00- 120.00	100.00
13.680	13.680	(0.000)	ADC1A	247456	15.0000	13.9	432.20- 648.30	540.25
5 2-Methyl naphthalene						CAS #: 91-57-6		
13.926	13.926	(0.000)	VWD1A	64056	15.0000	14.6	80.00- 120.00	100.00
14.012	14.012	(0.000)	ADC1A	366795			458.09- 687.14	572.62

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	
14.260	14.260	(0.000)	VWD1A	28222			80.00- 120.00	100.00
14.348	14.348	(0.000)	ADC1A	324924	15.0000	14.0	921.05-1381.58	1151.31
7 Fluorene							CAS #: 86-73-7	
14.613	14.613	(0.000)	VWD1A	343996	15.0000	14.5		
8 Phenanthrene							CAS #: 85-01-8	
15.416	15.416	(0.000)	VWD1A	920372			80.00- 120.00	100.00(M)
15.507	15.507	(0.000)	ADC1A	8097958	15.0000	14.4	703.89-1055.83	879.86
9 Anthracene							CAS #: 120-12-7	
16.140	16.140	(0.000)	VWD1A	2141686	15.0000	15.0	80.00- 120.00	100.00
16.247	16.247	(0.000)	ADC1A	17182417			641.83- 962.74	802.28
10 Fluoranthene							CAS #: 206-44-0	
16.966	16.966	(0.000)	VWD1A	221389	15.0000	14.1		
11 Pyrene							CAS #: 129-00-0	
17.506	17.506	(0.000)	VWD1A	178422	15.0000	12.8	80.00- 120.00	100.00
17.600	17.600	(0.000)	ADC1A	12991689			5825.15-8737.73	7281.44
$ 12 p-Terphenyl-d14 (SURR)							CAS #: 1718-51-0	
18.496	18.496	(0.000)	VWD1A	204876	15.0000	14.7	80.00- 120.00	100.00
18.592	18.592	(0.000)	ADC1A	9795529			3824.96-5737.44	4781.20
13 Benzo(a)Anthracene							CAS #: 56-55-3	
19.293	19.293	(0.000)	VWD1A	531718	15.0000	14.4	80.00- 120.00	100.00
19.388	19.388	(0.000)	ADC1A	8726350			1312.93-1969.39	1641.16
14 Chrysene							CAS #: 218-01-9	
19.680	19.680	(0.000)	VWD1A	755028	15.0000	14.6	80.00- 120.00	100.00(M)
19.803	19.803	(0.000)	ADC1A	18921348			2004.84-3007.26	2506.05
15 Benzo(b)Fluoranthene							CAS #: 205-99-2	
21.093	21.093	(0.000)	VWD1A	582172	15.0000	14.3	80.00- 120.00	100.00(M)
21.192	21.192	(0.000)	ADC1A	709258			97.46- 146.20	121.83
16 Benzo(k)Fluoranthene							CAS #: 207-08-9	
21.710	21.710	(0.000)	VWD1A	441555	15.0000	14.3	80.00- 120.00	100.00
21.808	21.808	(0.000)	ADC1A	1007196			182.48- 273.72	228.10
17 Benzo(a)pyrene							CAS #: 50-32-8	
22.306	22.306	(0.000)	VWD1A	536093			80.00- 120.00	100.00
22.408	22.408	(0.000)	ADC1A	3005001	15.0000	14.0	448.43- 672.64	560.54

RT	EXP RT	DLT RT	SIGNAL	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	TARGET RANGE	RATIO	
18 Dibenz(ah)Anthracene						CAS #: 53-70-3			
23.270	23.270	(0.000)	VWD1A	121855	15.0000	14.7	80.00- 120.00	100.00	
23.370	23.370	(0.000)	ADC1A	818773			537.54- 806.31	671.92	
19 Benzo(ghi)Perylene						CAS #: 191-24-2			
24.003	24.003	(0.000)	VWD1A	188972	15.0000	13.2	80.00- 120.00	100.00	
24.107	24.107	(0.000)	ADC1A	728635			308.46- 462.69	385.58	
20 Indeno(123cd)Pyrene						CAS #: 193-39-5			
24.450	24.450	(0.000)	VWD1A	522669	15.0000	14.2			(M)

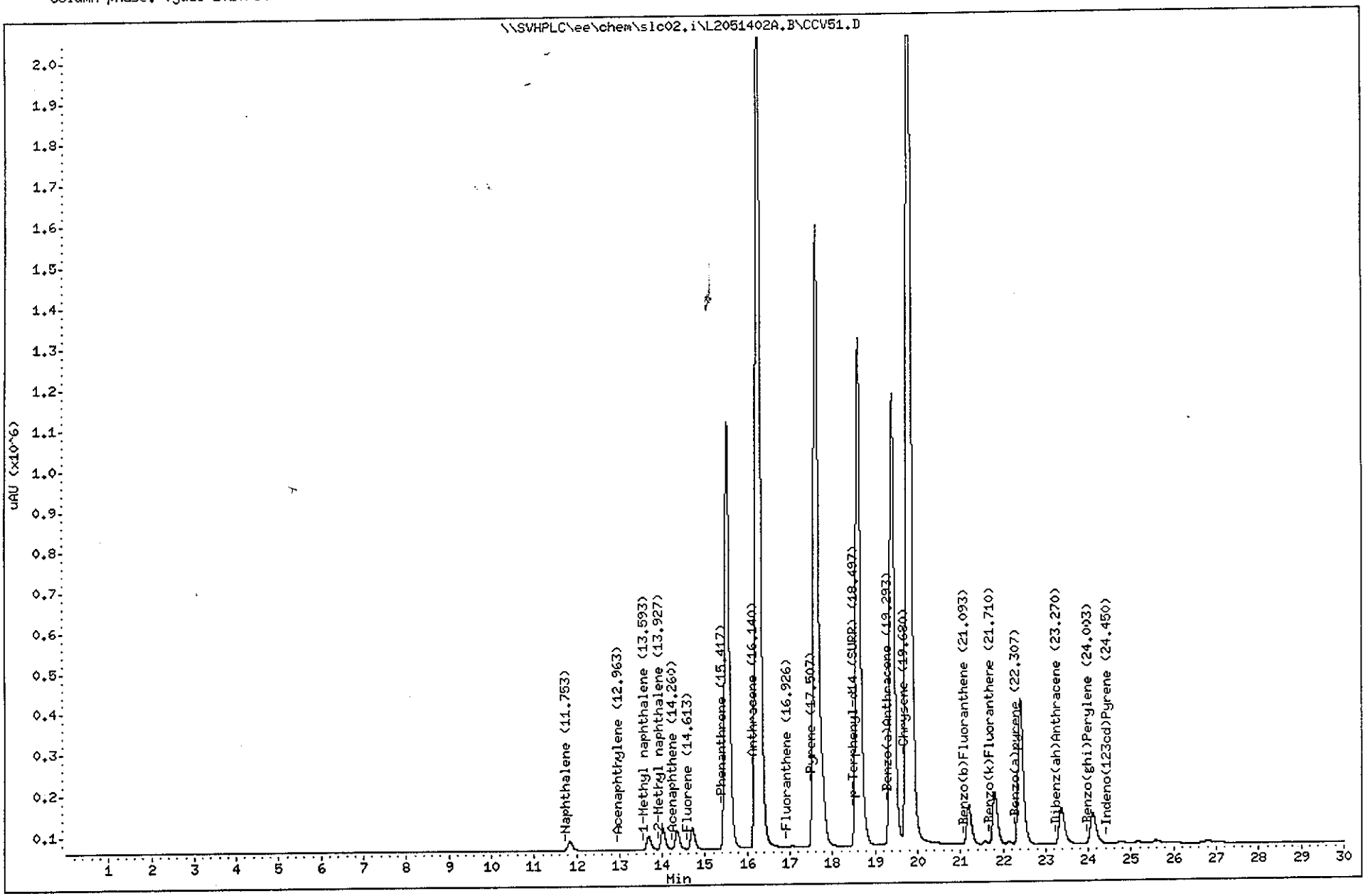
QC Flag Legend

M - Compound response manually integrated.

Data File: \\SVHPLC\ee\chem\slc02.i\L2051402A.B\CCV51.D
Date : 15-MAY-2002 10:24
Client ID: CCV51
Sample Info: SV4942
Purge Volume: 1000.0
Column phase: Vydac 201TP54

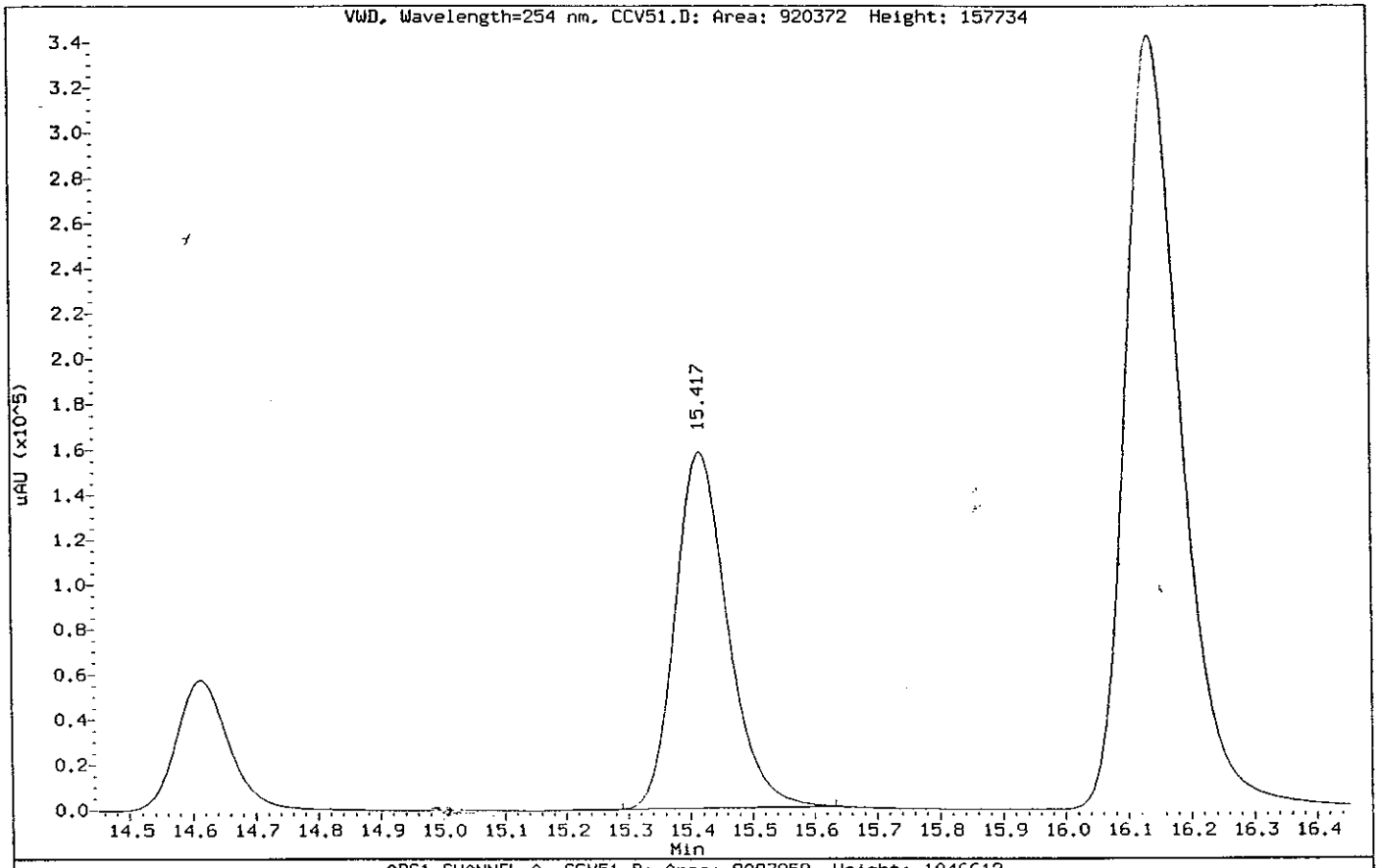
Instrument: slc02.i

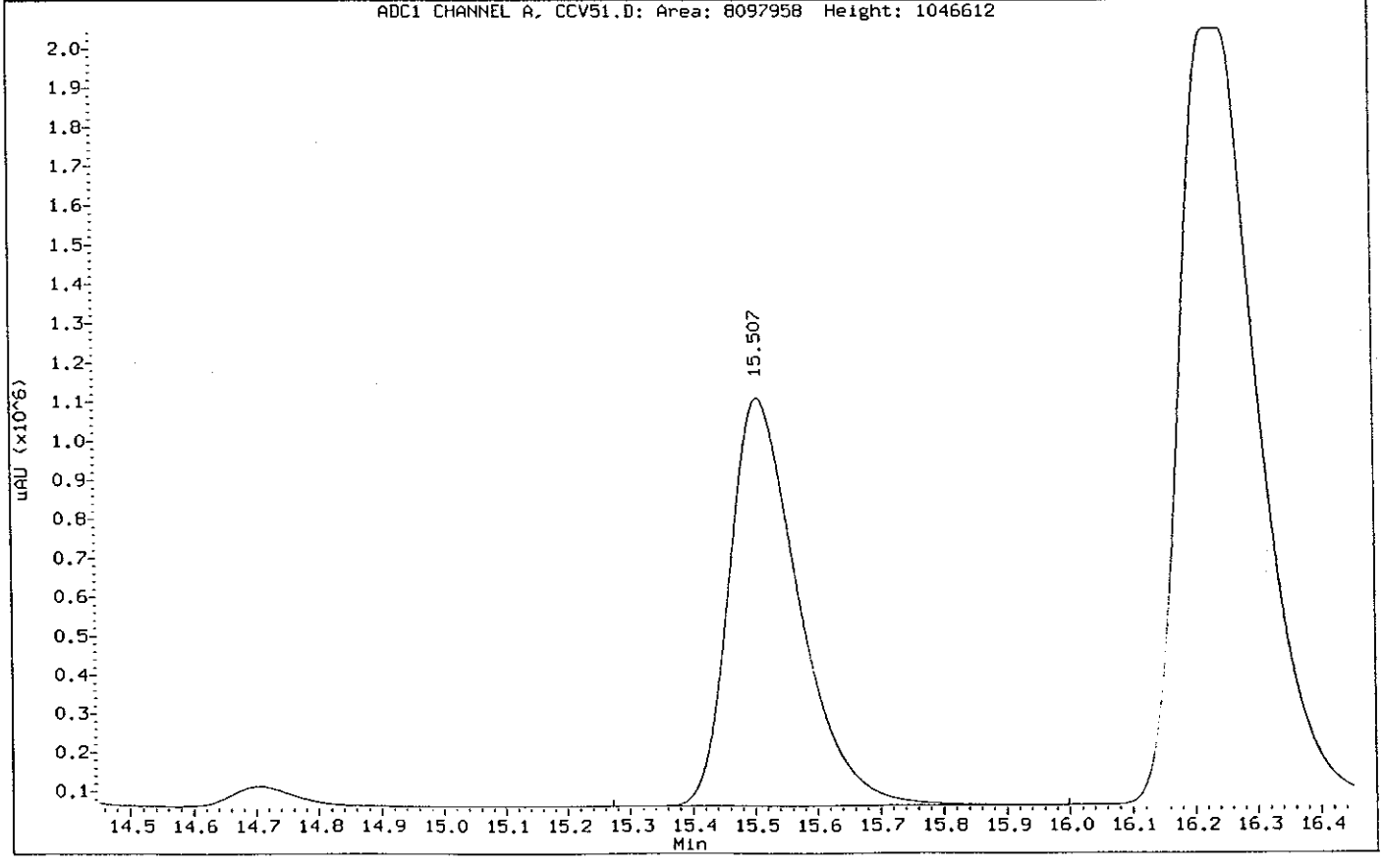
Operator: ROOD
Column diameter: 4.60



Data File: \\SVHPLC\ee\chem\slc02.i\L2051402A.B\CCV51.D
Injection Date: 15-MAY-2002 10:24
Instrument: slc02.i
Client Sample ID: CCV51

Compound: Phenanthrene
CAS Number: 85-01-8





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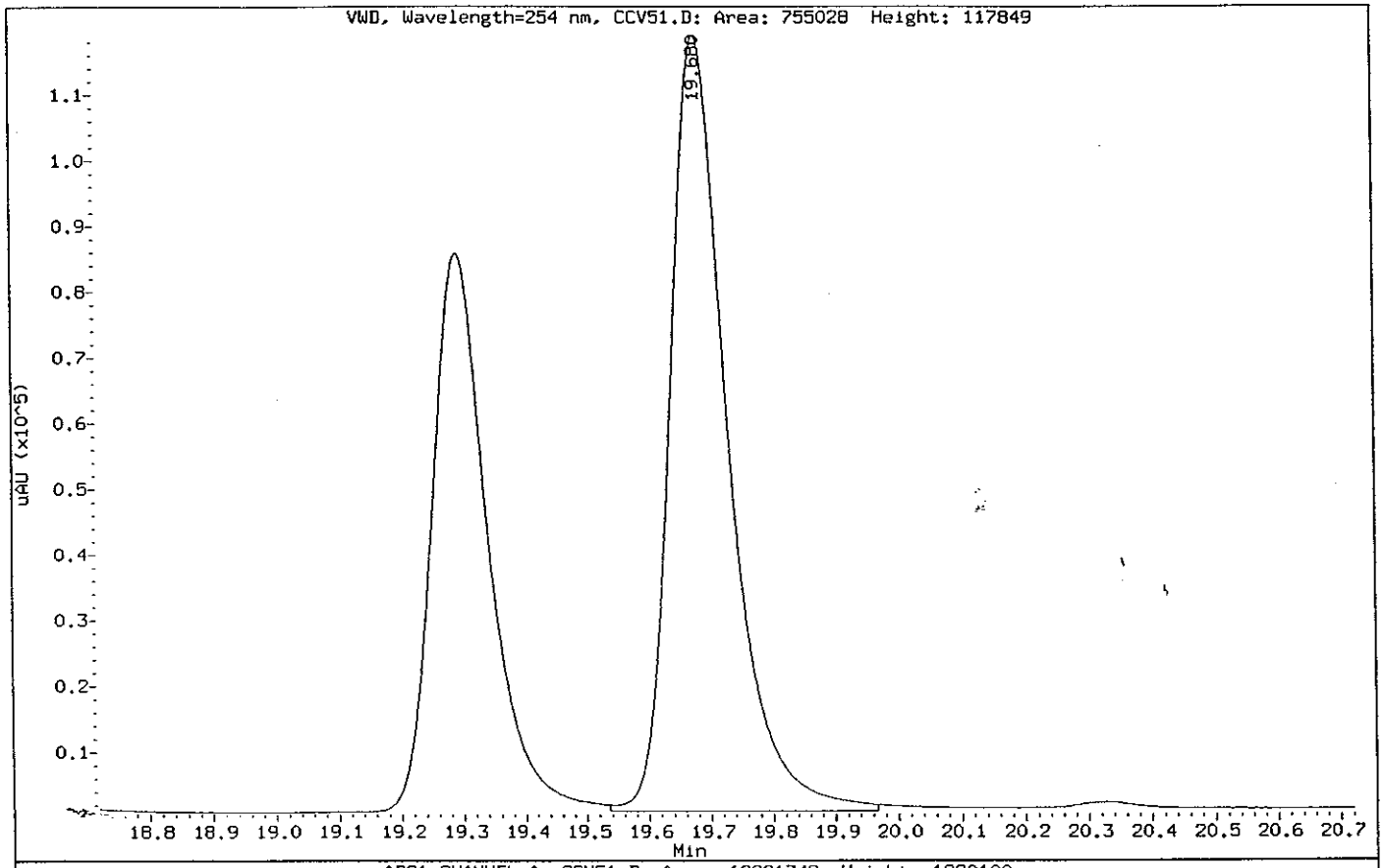
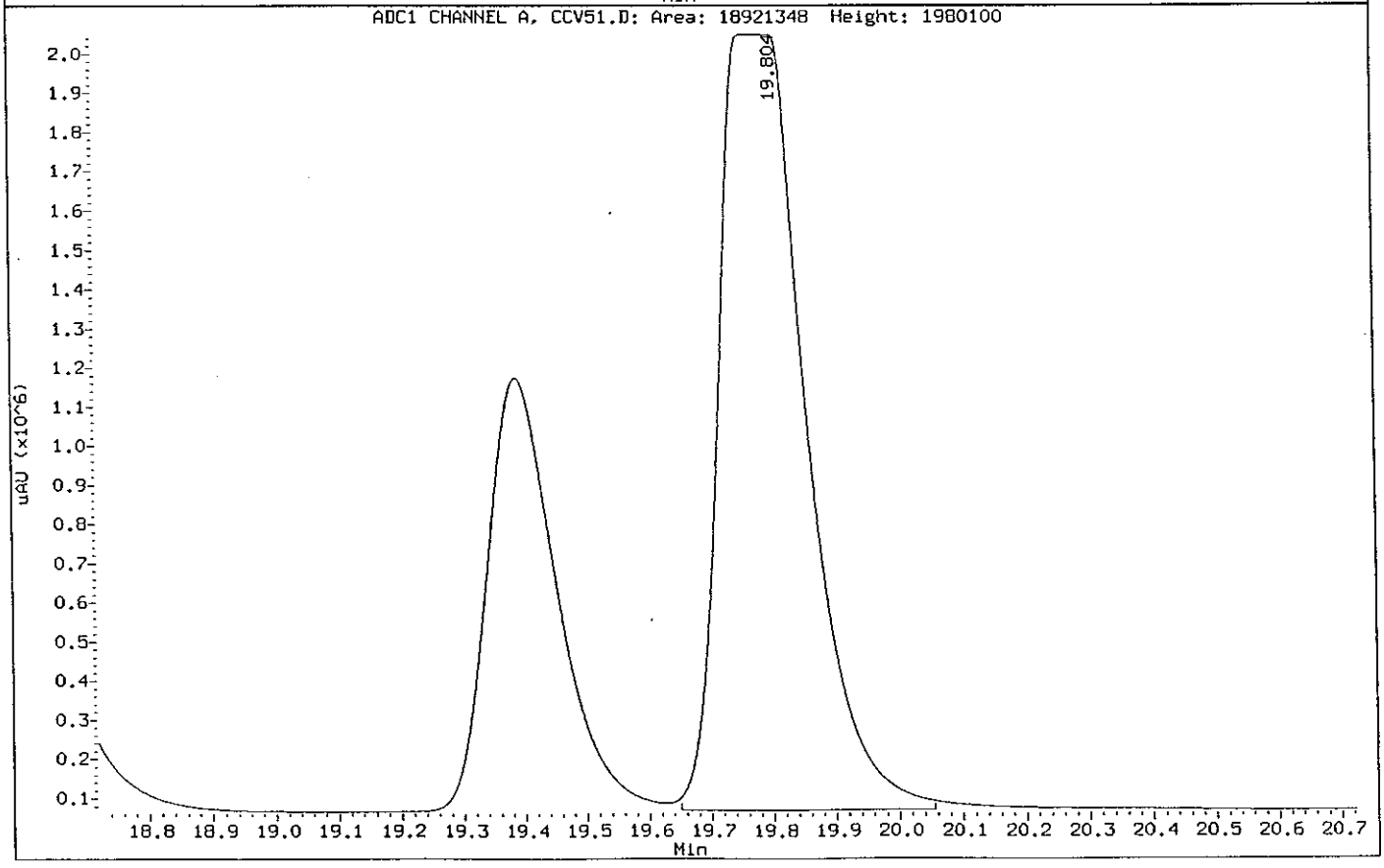
Injection Date: 15-MAY-2002 10:24
Instrument: slc02.i
Client Sample ID: CCV51

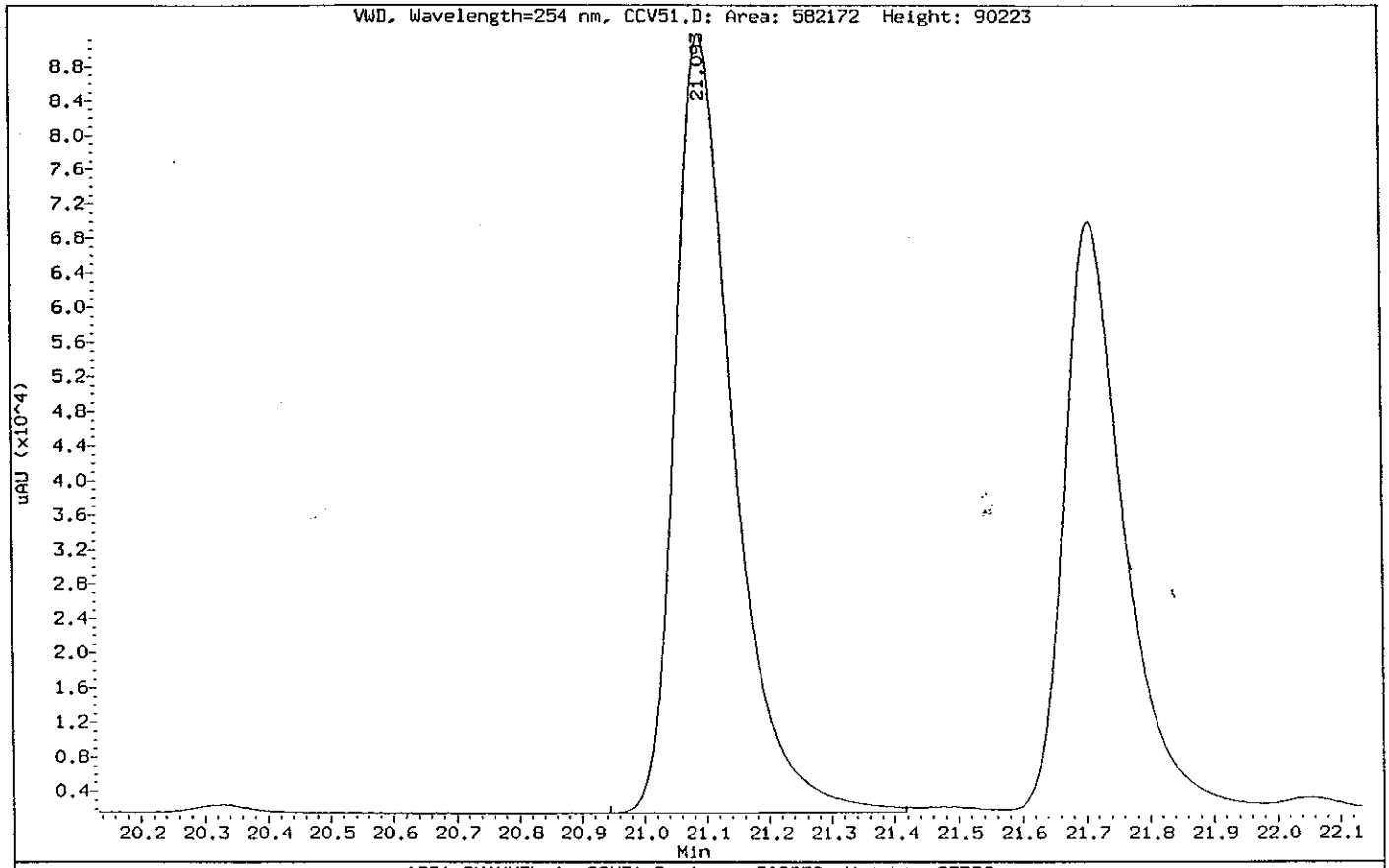
Compound: Chrysene
CAS Number: 218-01-9

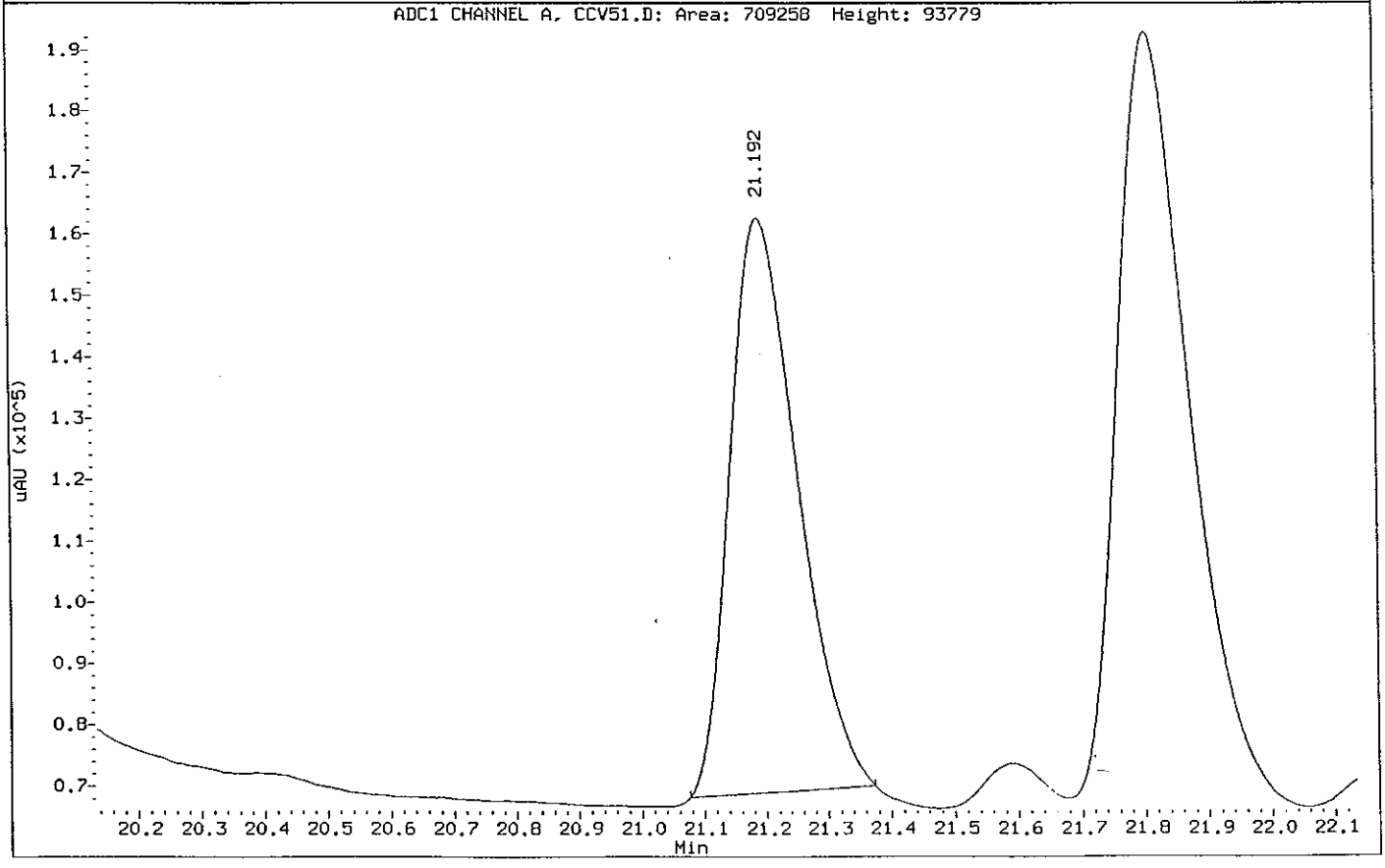




Data File: \\SVHPLC\ee\chem\slc02.i\L2051402A.B\CCV51.D
Injection Date: 15-MAY-2002 10:24
Instrument: slc02.i
Client Sample ID: CCV51

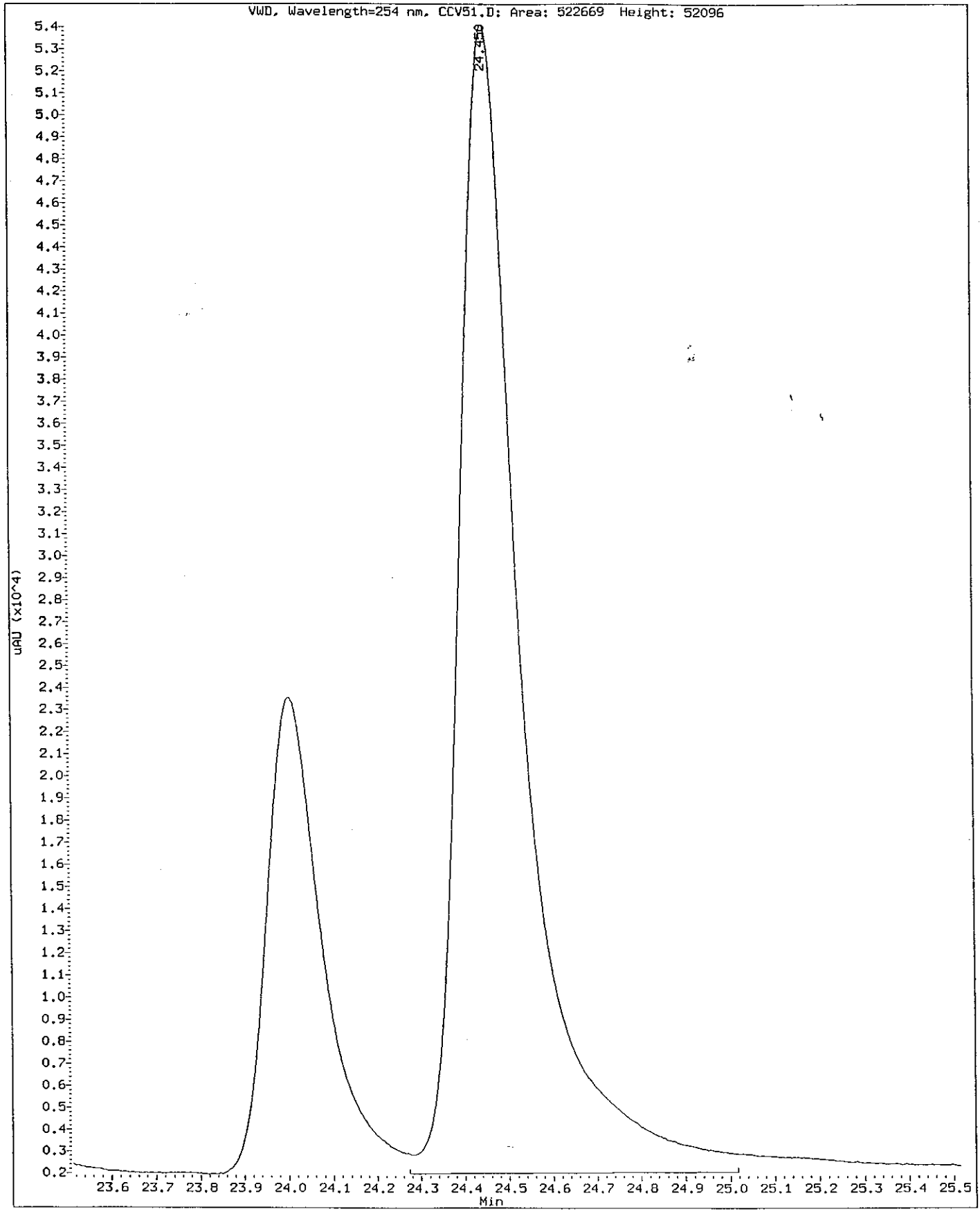
Compound: Benzo(b)Fluoranthene
CAS Number: 205-99-2





Data File: \\SVHPLC\ee\chem\slc02.i\L2051402A.B\CCV51.D
Injection Date: 15-MAY-2002 10:24
Instrument: slc02.i
Client Sample ID: CCV51

Compound: Indeno(123cd)Pyrene
CAS Number: 193-39-5



2204-029
Raw Data
GC FL-PRO Organics

5-20-02 LM

Vial	Sample Name F205200P 5-20-02 LM
96	DCM FLPROW/S
99	CCU1 SV 5071
1	69294 SBLK
2	69295 SLCS
3	69296 Sblkms
4	69297 sblkmsd
5	~~69298 220404601 ms~~ LM 5/20/02 220402901D 1:10
6	~~69299 -1 sd~~ LM 5/20/02 220402904
7	220402905
8	↓ -6
9	-7
10	-8
99	CCU2 SV 5071
11	↓ -9
12	-10
99	CCU3 SV 5071
B ~~14~~ LM 5/20/02	69260 BLK2
14	69261 lcs2
15	69262 blkms2
16	69263 blkmsd2
17	69298 220404601 ms
18	69299 -1 sd
19	220404601
20	↓ -2
21	220405401
22	↓ -2
99	CCU4S SV 5071
23	220402902 ms 1:10
24	↓ -3 sd 1:10
99	CCU5SV 5071

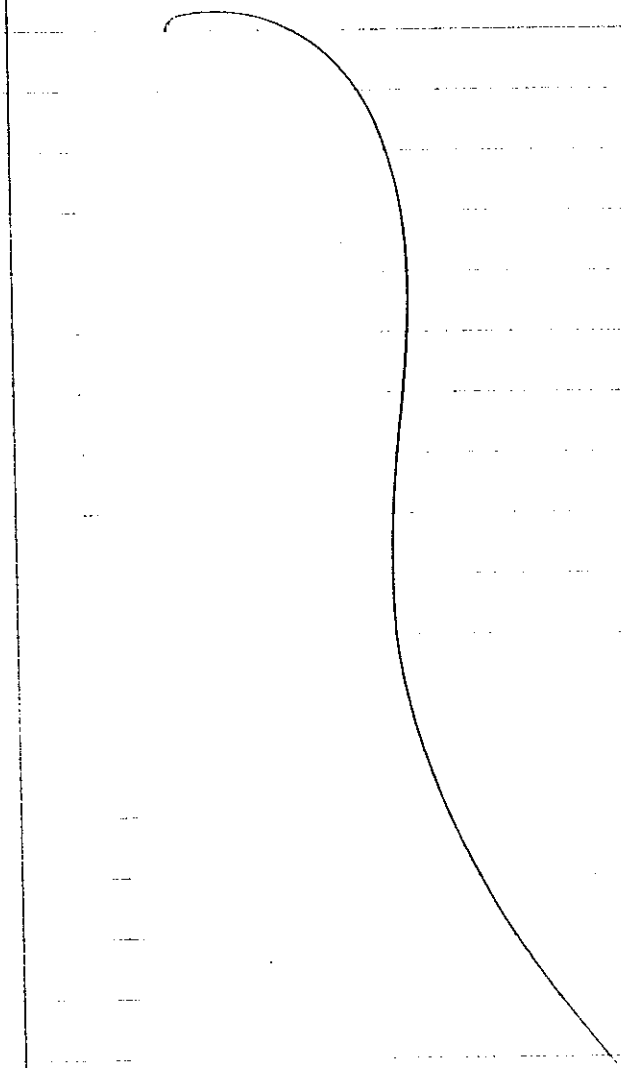
reviewed 5/21/02 LM

SV 51001

15-02 LM

Vial	Sample Name	F1052002	5-20-02 LM
96	DCM	FL PRO	
1	CAL STD 7	SV 5069	
2	CAL STD 6	SV 5070	
3	CAL STD 5	SV 5071	
4	CAL STD 4	SV 5072	
5	CAL STD 3	SV 5073	
6	CAL STD 2	SV 5074	
7	CAL STD 1	SV 5073A	
8	CAL STD 1R	SV 5073A	
9	SIC	SV 5074A	

reviewed 5/20/02 LM



Extraction/Analysis Method: 3510 / FL PRO

PEL LABORATORIES, INC.
Re-Extraction
Batch # 4496

DATE: 5/18/02 cat

Sample Number	BLK	LCS	RWMS	RWMSD	2204029 -2MS	3SD	-1	-4	-5	-6
Sample Date					5/9/02					
Description		DI H_2O			CH2M HILL 062CEF43 2NMS	2NMSD	2N	6N	7N	6N
Odor					Sulfur/fuel	→	→	Fuel	None	Fuel
Color					Slight yellow	→	→	Clear	Brown	→
Sed.					None	→	→	→	Slight	→
Vol./ Wt.	1000	→	→	→	905	925	950	965	940	910
pH	7/<2	→	→	→	→	→	→	→	→	→
AM 5/18/02 OTP Surrogate ID C39	05478F	1mL @ 100µg/mL	→	→	→	→	→	→	→	→
	SV5081	1mL @ 600µg/mL	→	→	→	→	→	→	→	→
Spike ID	NA	SV5080	1mL @ 200µg/mL	→	→	→	NA	→	→	→
ISTD	NA	→	→	→	→	→	→	→	→	→
Final Solvent	DCM	→	→	→	→	→	→	→	→	→
Final Vol. (ml)	2.0mL	→	→	→	→	→	→	→	→	→
Date Completed/By:	5/18/02 cat	→	→	→	→	→	→	→	→	→
Remarks					Small Emulsion	Small Emulsion	Small Emulsion	Small Emulsion	Medium Emulsion	Large Emulsion
Stock Loc. Box/Row	/	/	/	/	/	/	/	/	/	/
Spike Witness		HM	→	→	→	→	→	→	→	→

Base Lot # NA
Acid Lot# 0351F
Extraction Lot # DCM: X06E27 JTB

Final Solvent Lot # DCM: X06E27 J.T.B.

50°C (T.V.)
Bath Temp 50 °C
(6107/-241)

Extraction/Analysis Method: 3510 / FL PRO

PEL LABORATORIES, INC.
Re-Extraction
Batch #44946

DATE: 5/18/02 ajt

Sample Number	2204029 -7	-8	-9	-10						
Sample Date	5/9/02	→	→	→						
Description	CH2M HILL 062CEF43 33N	38N	062DUPQ 20249	062EQBQ →						
Odor	Sulfur	None	Sulfur/Fuel	None						
Color	Clear	Slight Yellow	→	None						
Sed.	None	→	→	None						
Vol./ Wt.	915	900	932	950						
pH	7/<2	→	→	→						
AH 5.16.02 OTP Surrogate ID C39	05478F	1 mL @ 100 Mg/mL	→	→						
	SV5081	1 mL @ 600 Mg/mL	→	→						
Spike ID	NA	→	→	→						
ISTD	NA	→	→	→						
Final Solvent	DCM	→	→	→						
Final Vol. (ml)	2.0mL	→	→	→						
Date Completed/By:	5/18/02 ajt	→	→	→						
Remarks		Small Emulsion	Small Emulsion							
Stock Loc. Box/Row	/	/	/	/	/	/	/	/	/	/
Spike Witness										

Base Lot # NA
Acid Lot# 05351F
Extraction Lot # DCM: X06E27
J.T.B.

Final Solvent Lot # DCM: X06E27
J.T.B.

50°C (T.N.)
Bath Temp 50 °C
(61071-241)

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
SV5069	5/15/02	LM	FL PRO CAL STD 7	Lot: 49841 48418C Man: 49603	Rec'd: Exp:	DCM B+J X05E07	200ul 25 uL 50uL	1mL	400ug/mL	
SV5070			FL PRO CAL 6	Lot: 49841 48418C Man: 49603	Rec'd: Exp:		150uL 25 uL 50uL		300ug/mL	
SV5071			FL PRO CAL 5	Lot: 49841 48418C Man: 49603	Rec'd: Exp:		75 uL 25 uL 50 uL		150ug/mL	
SV5072			FL PRO CAL 4	Lot: 49841 48418C Man: 49603	Rec'd: Exp:		50 uL 25 uL 50 uL		100ug/mL	
SV5073			FL PRO CAL 3	Lot: 49841 48418C Man: 49603	Rec'd: Exp:		25 uL 25 uL 50 uL		50ug/mL	
SV 5074			FL PRO CAL 2	Lot: 49841 48418C Man: 49603	Rec'd: Exp:		2 uL 25 uL 50 uL		10 ug/mL	
SV 5073A			FL PRO CAL 1	Lot: 49841 48418C Man: 49603	Rec'd: Exp:		1 uL 25 uL 50 uL		2 ug/mL	
~~SV 5073~~ SGA SV5074A			FL PRO SEC	Lot: ~~49841~~ 48418C 4886 Man:	Rec'd: Exp:		75 uL 25 uL 50 uL		150 ug/mL	
SV5075	5/15/02	SGA	8330 CCV	Lot: SV3814 Man:	Rec'd: — Exp:	$CaCl_2$	250ul 5ul	0.5ml	2.5ug/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.	Discarded
SV4981A	5/6/02	SGA	Picric Acid Std	Lot: A021385 Man: Restek	Rec'd: Exp: 5/6/03	—	—	—	1000 ug/ml	
SV4981B	5/6/02	SGA	Picric Acid Std	Lot: A021385 Man: Restek	Rec'd: Exp: 5/6/03	—	—	—	1,000 ug/ml	
SV4981C	5/6/02	SGA	Picric Acid Std	Lot: A021385 Man: Restek	Rec'd: Exp: 5/6/03	—	—	—	1,000 ug/ml	
SV4981D	5/6/02	SGA	Picric Acid Std	Lot: A021385 Man: Restek	Rec'd: Exp: 5/6/03	—	—	—	1,000 ug/ml	
SV4981E	5/6/02	SGA	Picric Acid Std	Lot: A021385 Man: Restek	Rec'd: Exp: 5/6/03	—	—	—	1,000 ug/ml	
SV4982 A-C	[illegible]	[illegible]	8310 Spike	Lot: SV4718A SV 4076 SV4108	Rec'd:	ACN	.5 mL ↓	100 mL	10 ug/mL	A— B— C—
SV4983 A,B,C,D	5-7-02	CG	8141 SVVV	Tripheny! Phosphate Solution PPS-110 500 ug/mL 1 mL Lot No. M-428Z Exp. Date 02/2004 ULTRA SCIENTIFIC North Kingstown, RI 401-294-9400 LAB USE ONLY						
4984	5-8-02	LM	FL PRO TPH CAL	Lot: SV 4812 Man:	Rec'd: Exp:	—	—	1mL	2000 ug/mL	
4985	5-8-02	LM	FL PRO CAL STDS	Lot: SV4984 SV4812E SV4886 Man:	Rec'd: Exp:	DCM B+J X05E07	75uL 25uL 300uL	1mL	150 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 4963	5/3/02	LM	FL PRO C-39 Surr	Lot: SV4817E Man:	Rec'd: Exp:	—	neat	—	6000 ug/mL	
SV 4964	5/3/02	LM	FL PRO STD 7 CAL	Lot: 4811A 4963 3909 Man:	Rec'd: Exp:		25 uL 30 uL ~~20~~ mL	1 mL	400 ug/mL	
SV 4965	"	"	FL PRO STD 6 CAL	Lot: 4811A 4963 3909 Man:	Rec'd: Exp:		25 uL 30 uL ~~150~~ ~~300~~ LM	1 mL	300 ug/mL	
SV 4966	"		FL PRO CAL STDS	Lot: 4811A 4963 3909 Man:	Rec'd: Exp:		25 uL 30 uL ~~75~~ ~~150~~	1 mL LM	150 ug/mL	
SV 4967			FL PRO CAL STD 4	Lot: 4811A 4963 3909 Man:	Rec'd: Exp:		25 uL 30 uL ~~50~~ ~~75~~ LM	1 mL	100 ug/mL	
SV 4968			FL PRO CAL STD 3	Lot: 4811A 4963 3909 Man:	Rec'd: Exp:		25 uL 30 uL ~~25~~ ~~30~~ LM	1 mL	50 ug/mL	
SV 4969			FL PRO CAL STD 2	Lot: 4811A 4963 3909 Man:	Rec'd: Exp:		25 uL 30 uL ~~2.5~~ ~~5~~ LM	1 mL	10 ug/mL	
SV 4970			FL PRO CAL STD 1	Lot: 4811A 4963 3909 Man:	Rec'd: Exp:		25 uL 30 uL ~~Sat~~ LM	1 mL	2 ug/mL	
SV 4971	↓	↓	FL PRO SEC source	Lot: 4811A 4963 Man:	Rec'd: Exp:		25 uL 30 uL ~~Sat~~ LM	1 mL		

Organic Standards Log

OS #	Date prpd.	By	Description	Origin-Lot No. Manufacturer	Expiration Date	Diluent-Lot No.	Amount for Dil.	Final Vol.	Final Conc.	Tested	Discarded
OS474F	5/15/02	SC	Hexane	Lot: V44E02 Man:	Exp: 2/03	NA	←				>
OS475F	5/15/02	SCA	8330 Working Surrogate	Lot: SV4217C Man:	Exp: 7/15/02	Methanol V48E26	1.0ml	50ml	20ug/ml	No	
OS476f	5.17.02 @ 12 pm	AM	EDB 1° working spk	Lot: OS381F Man:	Exp: 5.18.02 @ 12 pm	Methanol S.T.D. T51E56	50µl	5ml	0.02µg/ml	NO	
OS477f	5.17.02 @ 12 pm	AM	EDB 2° working spike	Lot: OS382F Man:	Exp: 5.18.02 @ 12 pm	Methanol S.T.D T51E56	50µl	5ml	0.02 mg/ml	NO	
OS478 F	5.18.02 10.00 AM	HM DF	OTP working surg	Lot: SV4382 D,F Man:	Exp: 6-30-02	CH_2Cl_2	2.5ml	50ml	100ug/ml	No	
				Lot: Man:	Exp:						
				Lot: Man:	Exp:						
				Lot: Man:	Exp:						
				Lot: Man:	Exp:						

Organic Standards Log

SV #	Date prpd.	By	Description	Origin-Lot No. / Manufacturer	Date stock rec'd / Expiration Date	Diluent-Lot No.	Amount for Dil.	Final Vol.	Final Conc.	Discarded
SV4379 A → E	3/11/02	LP	AccuStandard, Inc. 125 Market Street • New Haven, CT 06513 Phone 800-442-5290 • 203-786-5290 S-168 1 mL Appendix-IX Semi-Volatiles Mix 0.25 mg/mL in MeOH : CH2Cl2 (1:1) Lot: B2010166 43 comps. Exp: May 15,2002 CARCINOGENIC FOR LABORATORY USE ONLY WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. STORAGE FREEZE (<-10° C)			—	1 ml	250 ug/ml	
SV4380 A	3/11/02	LP	AccuStandard, Inc. 125 Market Street • New Haven, CT 06513 Phone 800-442-5290 • 203-786-5290 S-4698 1 mL Custom Semi-Volatiles Solution 500 µg/mL in CH2Cl2 Lot: B1030307-1A 8 comps. Exp: Mar 4,2003 CARCINOGENIC FOR LABORATORY USE ONLY WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. STORAGE REFRIG (0-5° C)			—		500 ug/ml	
B			AccuStandard, Inc. 125 Market Street • New Haven, CT 06513 Phone 800-442-5290 • 203-786-5290 DRH-FL-SS-3X 1 mL n-Nonatriacontane 3.0 mg/mL in CS2 Lot: B2030040 Exp. Mar 5.2005 CARCINOGENIC FOR LABORATORY USE ONLY WARNING: This product contains a chemical(s) known to the State of California to cause birth defects or other reproductive harm. STORAGE AMBIENT			—			
SV 4381 A-T	3/12/03	JAD								
SV 4382 A-D	3/12/03		O-TERPHENYL	NSI W-1341-01-05 Man:	12/02 Exp:	—	—	—	2000 ug/mL	
SV4383	3-14-03	CSG	1248 Cal 6	Lot: SV2967 Man:	Rec'd: Exp:	Hexane V33E49	250 ml	1 ml	2.5 ug/ml	
SV4384			Cal 5	Lot: Man:	Rec'd: Exp:		200 ml		2.0 ug/ml	
SV4385			Cal 4	Lot: Man:	Rec'd: Exp:		100 ml		1.0 ug/ml	
SV4386			Cal 3	Lot: Man:	Rec'd: Exp:		50 ml		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 4847	4/10/02	[illegible]	C-39 STOCK STD	Lot: 1339-16-01 Man: NSI	Rec'd: — Exp:	—	—	—	6000 ug/mL	
SV4845 A-3	↓	[illegible]	OTP STOCK STD	Lot: W-1341-0103 Man: USI	Rec'd: — Exp:	—	—	—	2000ug/ml	
SV4849	4/23/02	SGA	FLPRO CCV	Lot: SV3909 SV4811A SV4706 Man:	Rec'd: — Exp:	CH_2Cl_2	75ul 25ul 300ul	1ml	150ug/ml	
SV4850	4/23/02	SGA	TNRCC Soil MDL Spike	Lot: SV4223 Man:	Rec'd: Exp: 8-17-02	PENTANE	500ul	10ml	500ug/ml	
SV4851	4/23/02	CG	Carbamates	Lot: Pel-mix-11 Man:	Rec'd: 4-23-02 Exp:			1ml	1000ug/ml	
SV4852	↓	↓	↓	Lot: Man:	Rec'd: Exp:			↓	↓	
SV4853	↓	↓	↓	Lot: Man:	Rec'd: Exp:			↓	↓	
SV4854	4/24/02	SGA	Nitroguanidine Intermediate std.	Lot: SV4765A Man:	Rec'd: Exp: 10-3-02	Methanol	100ul	1ml	100ug/ml	
SV4855	4/24/02	SGA	Nitroguanidine std	Lot: SV4854 Man:	Rec'd: Exp: 10-3-02	Methanol	100ul	1ml	10ug/ml	

SV #	Date prpd.	By	Description	Origin-Lot No. / Manufacturer	Date stock rec'd / Expiration Date	Diluent-Lot No.	Amount for Dil.	Final Vol.	Final Conc.	Discarded
SV4883	4/29/02	KP	AccuStandard 125 Market St. New Haven, CT A-020S-5X 3,4-DICHLORO PHENOL – Date opened: Lot: B1060430 Exp. Apr 25,2005 1.0 mg/mL in MeOH			STORAGE AMBIENT	–	1 mL	1000 ug/mL	
SV4884 A, B	4/29/02	KP	AccuStandard 125 Market St. New Haven, CT S-518A Date opened: Lot: B0090131-1A 1-METHYL NAPHTHALENE Exp. Oct 1,2002 2.0 mg/mL in MeOH			STORAGE AMBIENT	–	1 mL	2000 ug/mL	
SV4885 A, B	4/29/02	KP	Cat.#31011 SV Calibration Mix #5 Lot# A020544 Expires:10/04 Storage:Refrigerate 2000 ug/ml each in methylene chloride FOR LABORATORY USE ONLY Restek Corporation • 110 Benner Circle • Bellefonte, PA 16823				–	1 mL	2000 ug/mL	
SV4886	4/30/02	LM	FL PRO 2° STD	Lot: 4680A Man:	Rec'd: Exp:	neat			500 µg/mL	
SV4887	4/30/02	LM	FL PRO CAL STD 7	Lot: SV4811A SV4812E SV4886 LM Man: 4706	Rec'd: — Exp:	CHCl2 Lot- K05E07	200 µL 25 µL 300 µL	1 mL	400 ug/mL	
SV 4888	4/30/02	LM	FL PRO CAL STD 6	Lot: SV4811A SV4812E SV4886 LM Man: 4706	Rec'd: — Exp:		150 µL 25 µL 300 µL	1 mL	300 ug/mL	
SV 4889	4/30/02	LM	FL PRO CAL STD 5	Lot: SV4811A SV4812E SV4886 LM Man: 4706	Rec'd: — Exp:		75 µL 25 µL 300 µL	1 mL	150 ug/mL	
SV 4890	4/30/02	LM	FL PRO CAL STD 4	Lot: SV4811A SV4812E SV4886 LM Man: 4706	Rec'd: — Exp:		50 µL 25 µL 300 µL	1 mL	100 ug/mL	
SV 4891	4/30/02	LM	FL PRO CAL STD 3	Lot: SV4811A SV4812E SV4886 LM Man: 4706	Rec'd: — Exp:		25 µL 25 µL 300 µL	1 mL	50 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 5024	5/10/02	[illegible]	1242 Cal 5	Lot: SV 477' Man:	Rec'd: Exp:	Hexane V44E02	200 uL	1 mL	2 ug/mL	
SV [illegible] 5/10/02 ~~4025~~ 5025			1242 cal 4	Lot: Man:	Rec'd: Exp:		100 uL		1 ug/mL	
SV 5026			1242 cal 3	Lot: Man:	Rec'd: Exp:		50 uL		.5 ug/mL	
SV [illegible] 5/10/02 5027			1242 cal 2	Lot: Man:	Rec'd: Exp:		10 uL		.1 ug/mL	
SV 5028			1242 cal 1	Lot: Man:	Rec'd: Exp:		5 uL		.05 ug/mL	
SV5029A-D	5-10-02	LM	NSI FLPRO Surr C-39	Lot: 1339-16-01 Man:	Rec'd: Exp: 3/04				6001ug/mL	
SV 5030 A-D	5-10-02	LM	NSI 8270 ~~FLPRO Surr~~ ~~C-39~~ LM INT STD	Lot: C-394-10 Man:	Rec'd: 12/02 Exp:				~~600~~ LM 2000ug/mL	
SV5031	5-13-02	LM	DRO CAL STD 6	Lot: Man:	Rec'd: Exp:	DCM B+J X05E07	400uL 50uL	1mL	2000ug/mL	
SV5032	5-13-02	LM	DRO CAL STD5	Lot: Man:	Rec'd: Exp:	↓	200uL 50uL	1mL	1000ug/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 5076 A-D	5/16/02	LM	FL PRO C-39 NSI	Lot: 1339-16-01 Man:	Rec'd: Exp: 3/04				600 ug/mL	
SV 5077 A-D	5/16/02	LM	SIGMA Ultra organo phos [illegible]	Lot: S-0674 Man:	Rec'd: Exp: 6/2004				200 ug/mL	
SV 5078	5/16/02	LM	NSI TCL LCS spk 8260	Lot: 05150239 Man:	Rec'd: Exp: 5/15/03				1600 ug/mL	
SV 5078 A-D	5/16/02	LM	NSI 8260 LIMIT STDS	Lot: C-3914-D Man:	Rec'd: Exp: 12/02				2000 ug/mL	
SV 5080	5/16/02	LM	FL PRO working spike TPH	Lot: SV 4393 A+B Man:	Rec'd: Exp:	DCM B+N X 05E07	2.5mL	25mL	2000 ug/mL	
SV 5081	5/16/02	LM	FL PRO working C-39	Lot: SV 5029 A-D Man:	Rec'd: Exp:	DCM B+N X05E07	5.0mL	50mL	600 ug/mL	
SV 5082 A-E	5/16/02	JMT	AccuStandard 125 Market St. New Haven, CT S-9555B APA Lot: B2050083 Exp: Nov 3,2002	CUSTOM SV MIX 2. 2000 µg/mL in Methylene	Date opened:	STORAGE FREEZE (<-10° C)				
SV 5083 A-E	5/16/02	JMT	AccuStandard 125 Market St. New Haven, CT S-9555B APA Lot: B2050138 Exp: Nov 10,0202	CUSTOM SV MIX 2 2000 µg/mL in Methylene	Date opened:	STORAGE FREEZE (<-10° C)				
SV 5084 A-E	↓	↓	AccuStandard 125 Market St. New Haven, CT S-9555A Lot: B2050121 Exp: Nov 9,2002	CUSTOM SV MIX 1 APA 2000 µg/mL in Methylene	Date opened:	STORAGE FREEZE (<-10° C)				

Data File: \\TYOUNG\ee\chem\sfid01.i\F1052002.b\CAL7.D
Report Date: 21-May-2002 16:39

PEL Laboratories, Inc.

Data file : \\TYOUNG\ee\chem\sfid01.i\F1052002.b\CAL7.D
Lab Smp Id: CAL7SV
Inj Date : 20-MAY-2002 09:23
Operator : LM Inst ID: sfid01.i
Smp Info : CAL7SV
Misc Info : Florida PRO
Comment :
Method : \\TYOUNG\ee\chem\sfid01.i\F1052002.b\FLPROW.m
Meth Date : 21-May-2002 16:39 lmchugh Quant Type: ESTD
Cal Date : 20-MAY-2002 09:23 Cal File: CAL7.D
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.04
Processing Host: SVHPLC3

Concentration Formula: Amt * DF * (1/(Vi/1000)*Vf)

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1000.000	Sample Initial Volume
Vf	2.000	Final Extract Volume

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/ml)	AMOUNTS ON-COL (mg/ml)
S 1 TPH (C8-C40)	1.750-10.500			61409000	6.80000	6.7(M)
$ 2 ortho-Terphenyl	4.340	4.340	0.000	548895	0.05000	0.051(M)
$ 3 Nonatriacontane	8.873	8.873	0.000	2344500	0.30000	0.38(M)

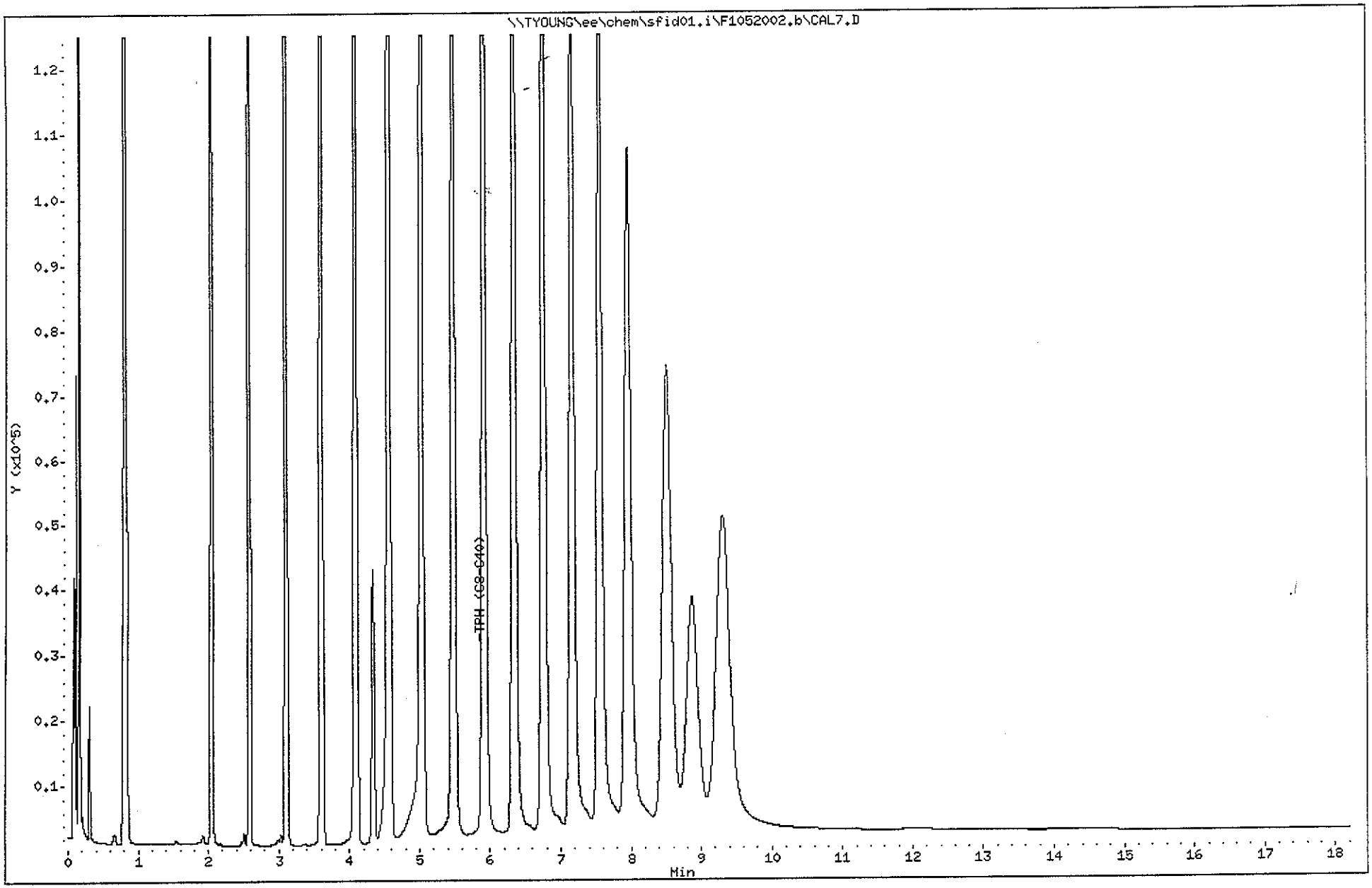
LM

QC Flag Legend

M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid01.i\F1052002.b\CAL7.D
Date : 20-MAY-2002 09:23
Client ID:
Sample Info: CAL7SV
Volume Injected (uL): 1000.0
Column phase: RTX-5

Instrument: sfid01.i
Operator: LM
Column diameter: 0.53



PEL Laboratories, Inc.

Data file : \\TYOUNG\ee\chem\sfid01.i\F1052002.b\CAL6.D
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Inj Date : 20-MAY-2002 09:51
Operator : LM Inst ID: sfid01.i
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Misc Info : Florida PRO
Comment :
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Meth Date : 21-May-2002 16:39 lmchugh Quant Type: ESTD
Cal Date : 20-MAY-2002 09:23 Cal File: CAL7.D
Als bottle: 2 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.04
Processing Host: SVHPLC3

Concentration Formula: Amt * DF * (1/(Vi/1000)*Vf)

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1000.000	Sample Initial Volume
Vf	2.000	Final Extract Volume

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/ml)	AMOUNTS ON-COL (mg/ml)
S	1 TPH (C8-C40)	1.750-10.500			48893555	5.10000	5.3(M)
$	2 ortho-Terphenyl	4.346	4.346	0.000	545550	0.05000	0.051(M)
$	3 Nonatriacontane	8.916	8.916	0.000	1621627	0.30000	0.26(M)

LM

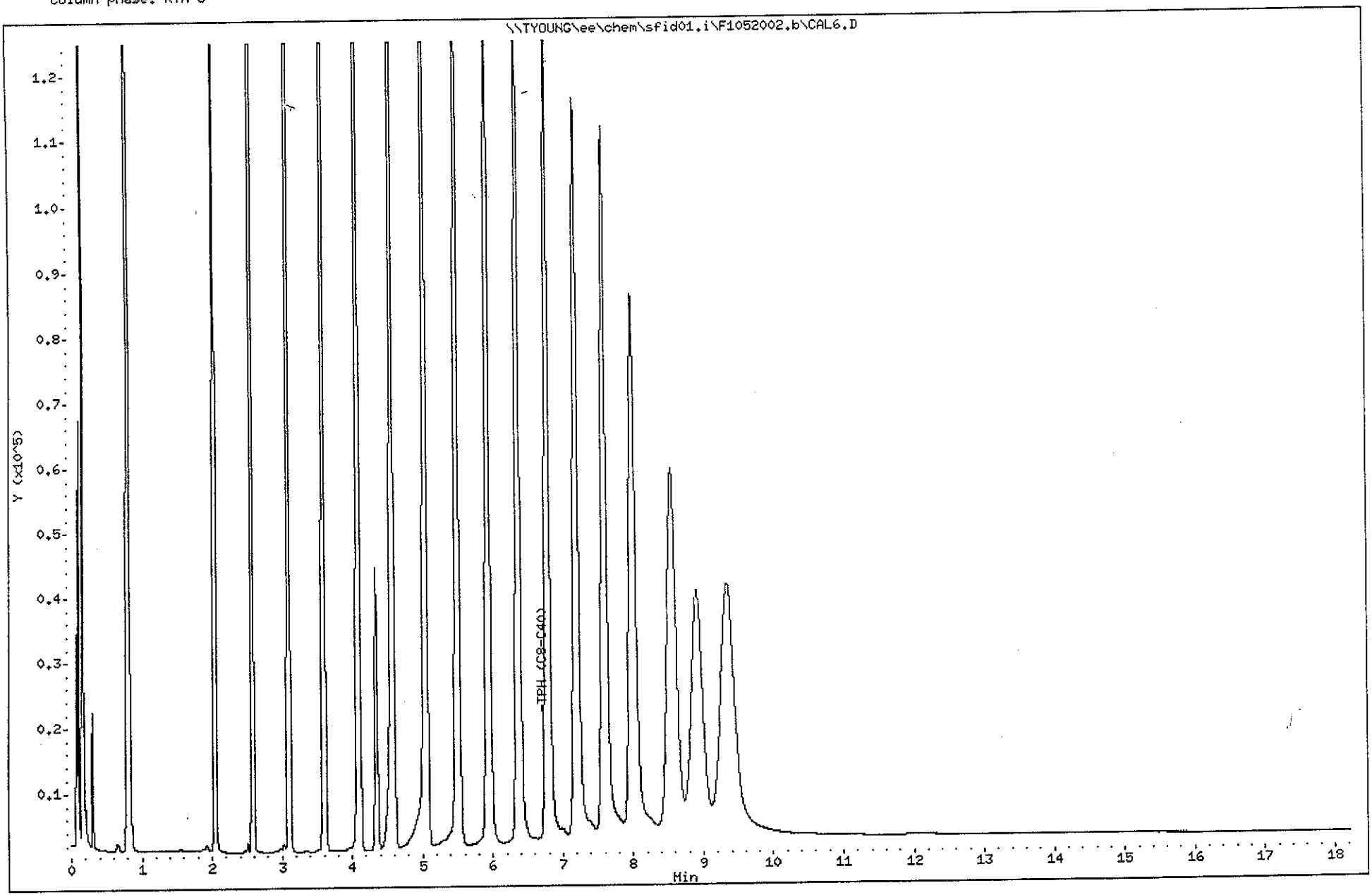
QC Flag Legend

M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid01.i\F1052002.b\CAL6.D
Date : 20-MAY-2002 09:51
Client ID:
Sample Info: CAL6SV
Volume Injected (uL): 1000.0
Column phase: RTX-5

Instrument: sfid01.i

Operator: LM
Column diameter: 0.53



PEL Laboratories, Inc.

Data file : \\TYOUNG\ee\chem\sfid01.i\F1052002.b\CAL5.D
Lab Smp Id: CAL5SV
Inj Date : 20-MAY-2002 10:20
Operator : LM Inst ID: sfid01.i
Smp Info : CAL5SV
Misc Info : Florida PRO
Comment :
Method : \\TYOUNG\ee\chem\sfid01.i\F1052002.b\FLPROW.m
Meth Date : 21-May-2002 16:39 lmchugh Quant Type: ESTD
Cal Date : 20-MAY-2002 09:23 Cal File: CAL7.D
Als bottle: 3 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.04
Processing Host: SVHPLC3

Concentration Formula: Amt * DF * (1/(Vi/1000)*Vf)

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1000.000	Sample Initial Volume
Vf	2.000	Final Extract Volume

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/ml)	AMOUNTS ON-COL (mg/ml)
S 1 TPH (C8-C40)	1.750-10.500			22428914	2.55000	2.4 (M)
$ 2 ortho-Terphenyl	4.350	4.350	0.000	515503	0.05000	0.048 (M)
$ 3 Nonatriacontane	8.933	8.933	0.000	1701183	0.30000	0.27 (M)

LM

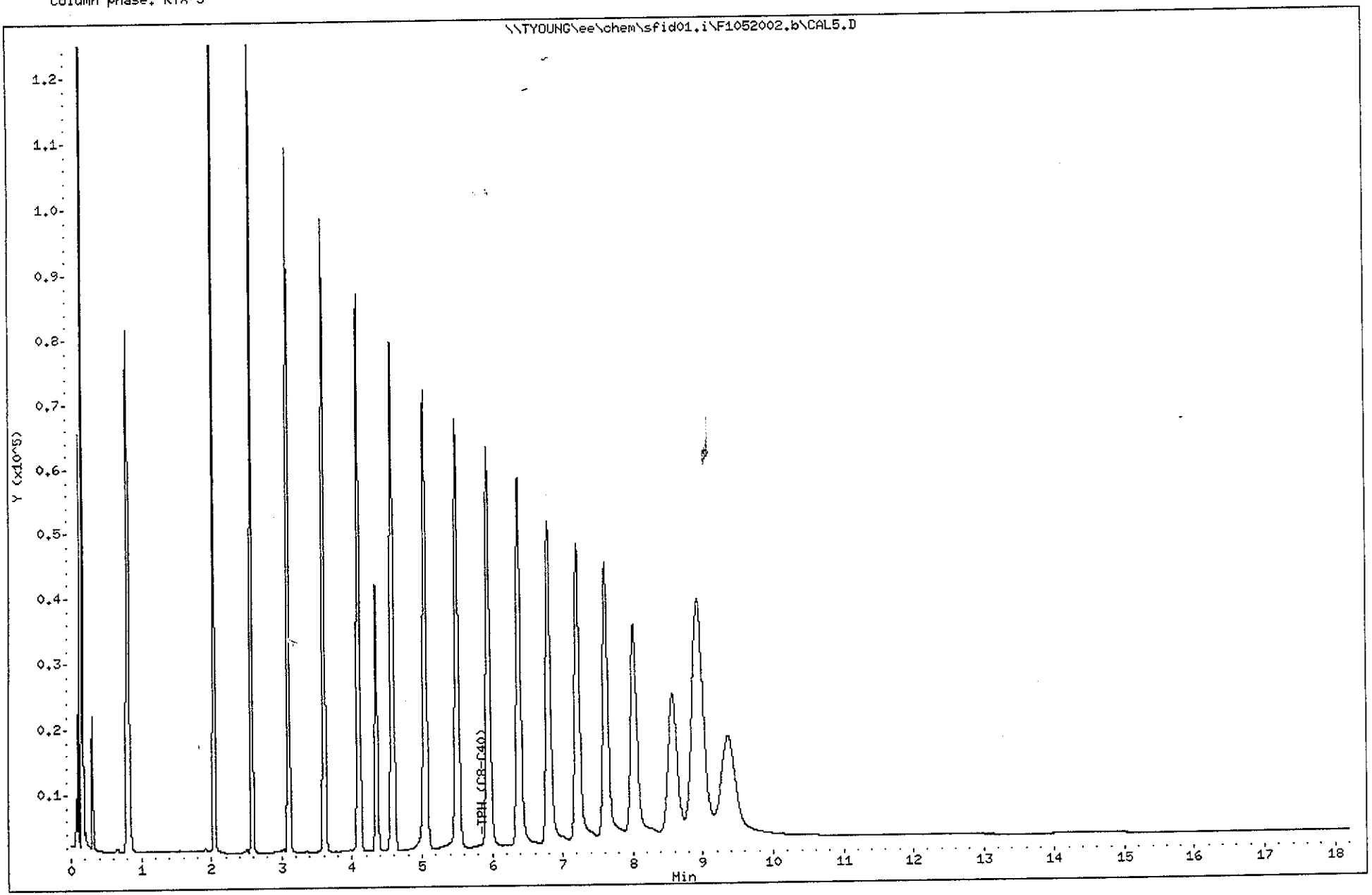
QC Flag Legend

M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid01.i\F1052002.b\CAL5.D
Date : 20-MAY-2002 10:20
Client ID:
Sample Info: CAL5SV
Volume Injected (uL): 1000.0
Column phase: RTX-5

Instrument: sfid01.i

Operator: LM
Column diameter: 0.53



PEL Laboratories, Inc.

Data file : \\TYOUNG\ee\chem\sfid01.i\F1052002.b\CAL4.D
Lab Smp Id: CAL4SV
Inj Date : 20-MAY-2002 10:48
Operator : LM Inst ID: sfid01.i
Smp Info : CAL4SV
Misc Info : Florida PRO
Comment :
Method : \\TYOUNG\ee\chem\sfid01.i\F1052002.b\FLPROW.m
Meth Date : 21-May-2002 16:39 lmchugh Quant Type: ESTD
Cal Date : 20-MAY-2002 09:23 Cal File: CAL7.D
Als bottle: 4 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.04
Processing Host: SVHPLC3

Concentration Formula: Amt * DF * (1/(Vi/1000)*Vf)

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1000.000	Sample Initial Volume
Vf	2.000	Final Extract Volume

						AMOUNTS	
						CAL-AMT	ON-COL
	Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/ml)	(mg/ml)
S	1 TPH (C8-C40)	1.750-10.500			16530592	1.70000	1.7(M)
$	2 ortho-Terphenyl	4.333	4.333	0.000	546080	0.05000	0.051(M)
$	3 Nonatriacontane	8.873	8.873	0.000	1851531	0.30000	0.30(M)

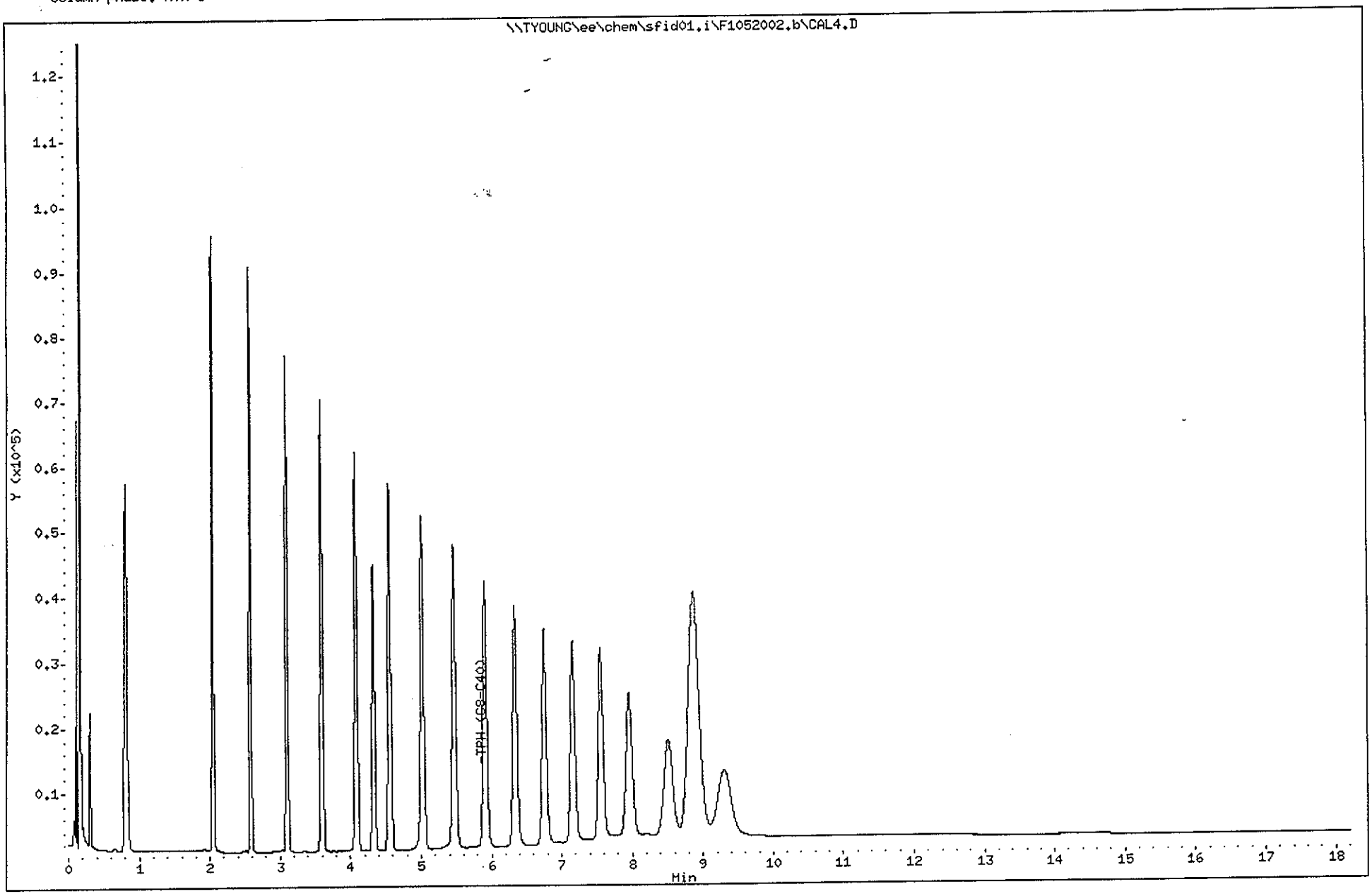
QC Flag Legend

M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid01.i\F1052002.b\CAL4.D
Date : 20-MAY-2002 10:48
Client ID:
Sample Info: CAL4SV
Volume Injected (uL): 1000.0
Column phase: RTX-5

Instrument: sfid01.i

Operator: LM
Column diameter: 0.53



PEL Laboratories, Inc.

Data file : \\TYOUNG\ee\chem\sfid01.i\F1052002.b\CAL3.D
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Inj Date : 20-MAY-2002 11:16 Inst ID: sfid01.i
Operator : LM
Smp Info : CAL3SV
Misc Info : Florida PRO
Comment :
Method : \\TYOUNG\ee\chem\sfid01.i\F1052002.b\FLPROW.m
Meth Date : 21-May-2002 16:39 lmchugh Quant Type: ESTD
Cal Date : 20-MAY-2002 09:23 Cal File: CAL7.D
Als bottle: 5 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.04
Processing Host: SVHPLC3

Concentration Formula: Amt * DF * (1/(Vi/1000)*Vf)

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1000.000	Sample Initial Volume
Vf	2.000	Final Extract Volume

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/ml)	AMOUNTS ON-COL (mg/ml)
S	1 TPH (C8-C40)	1.750-10.500			9873829	0.84000	0.97(M)
$	2 ortho-Terphenyl	4.350	4.350	0.000	533717	0.05000	0.050(M)
$	3 Nonatriacontane	8.916	8.916	0.000	1814716	0.30000	0.29(M)

LM

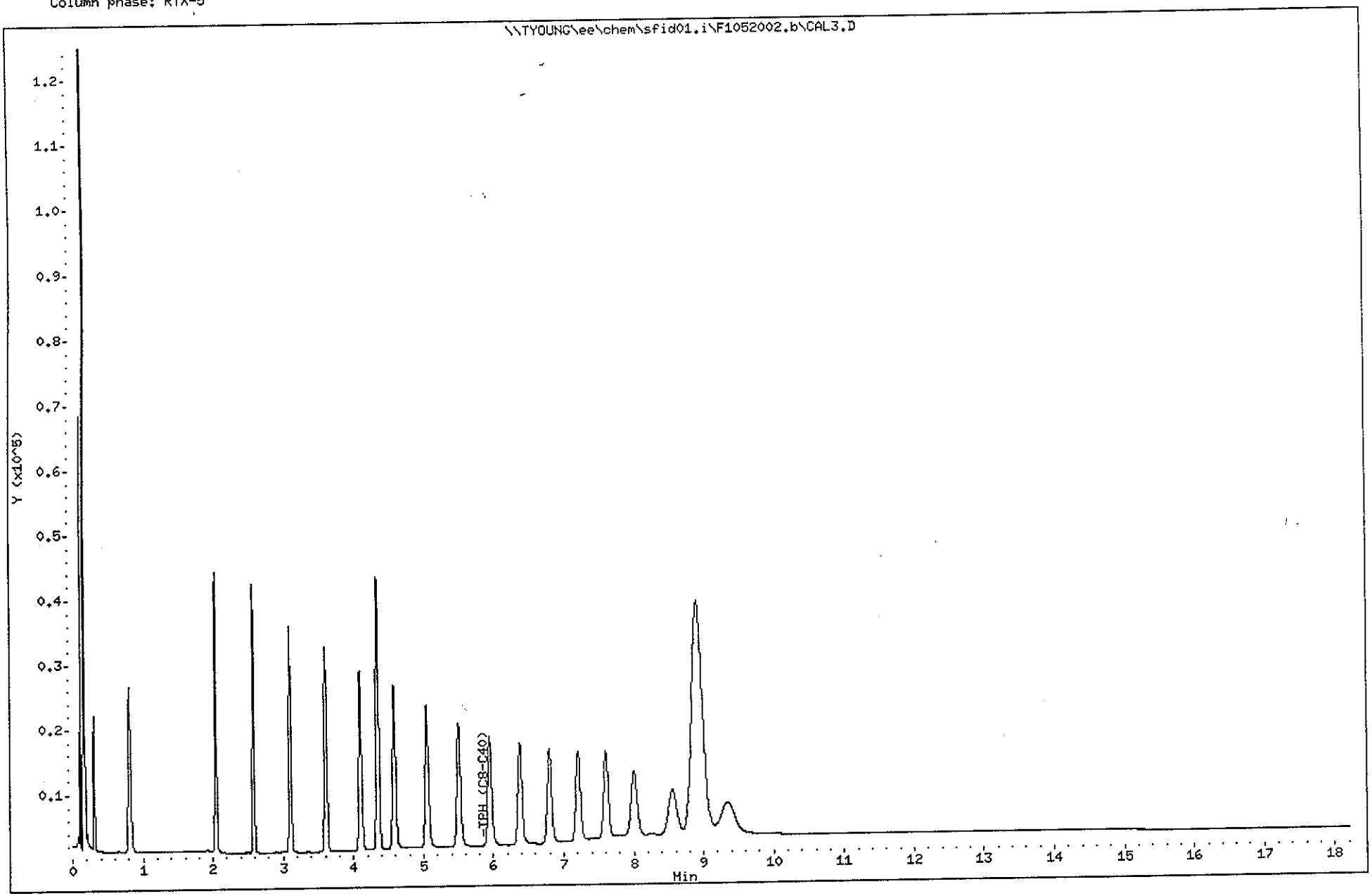
QC Flag Legend

M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid01.i\F1052002.b\CAL3.D
Date : 20-MAY-2002 11:16
Client ID:
Sample Info: CAL3SV
Volume Injected (uL): 1000.0
Column phase: RTX-5

Instrument: sfid01.i

Operator: LM
Column diameter: 0.53



PEL Laboratories, Inc.

Data file : \\TYOUNG\ee\chem\sfid01.i\F1052002.b\CAL2.D
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Meth Date : 21-May-2002 16:39 lmchugh Quant Type: ESTD
Cal Date : 20-MAY-2002 09:23 Cal File: CAL7.D
Als bottle: 6 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.04
Processing Host: SVHPLC3

Concentration Formula: Amt * DF * (1/(Vi/1000)*Vf)

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1000.000	Sample Initial Volume
Vf	2.000	Final Extract Volume

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/ml)	AMOUNTS ON-COL (mg/ml)
S	1 TPH (C8-C40)	1.750-10.500			2026141	0.17000	0.10(M)
$	2 ortho-Terphenyl	4.320	4.320	0.000	531916	0.05000	0.050(M)
$	3 Nonatriacontane	8.776	8.776	0.000	1853701	0.30000	0.30(M)

LIM

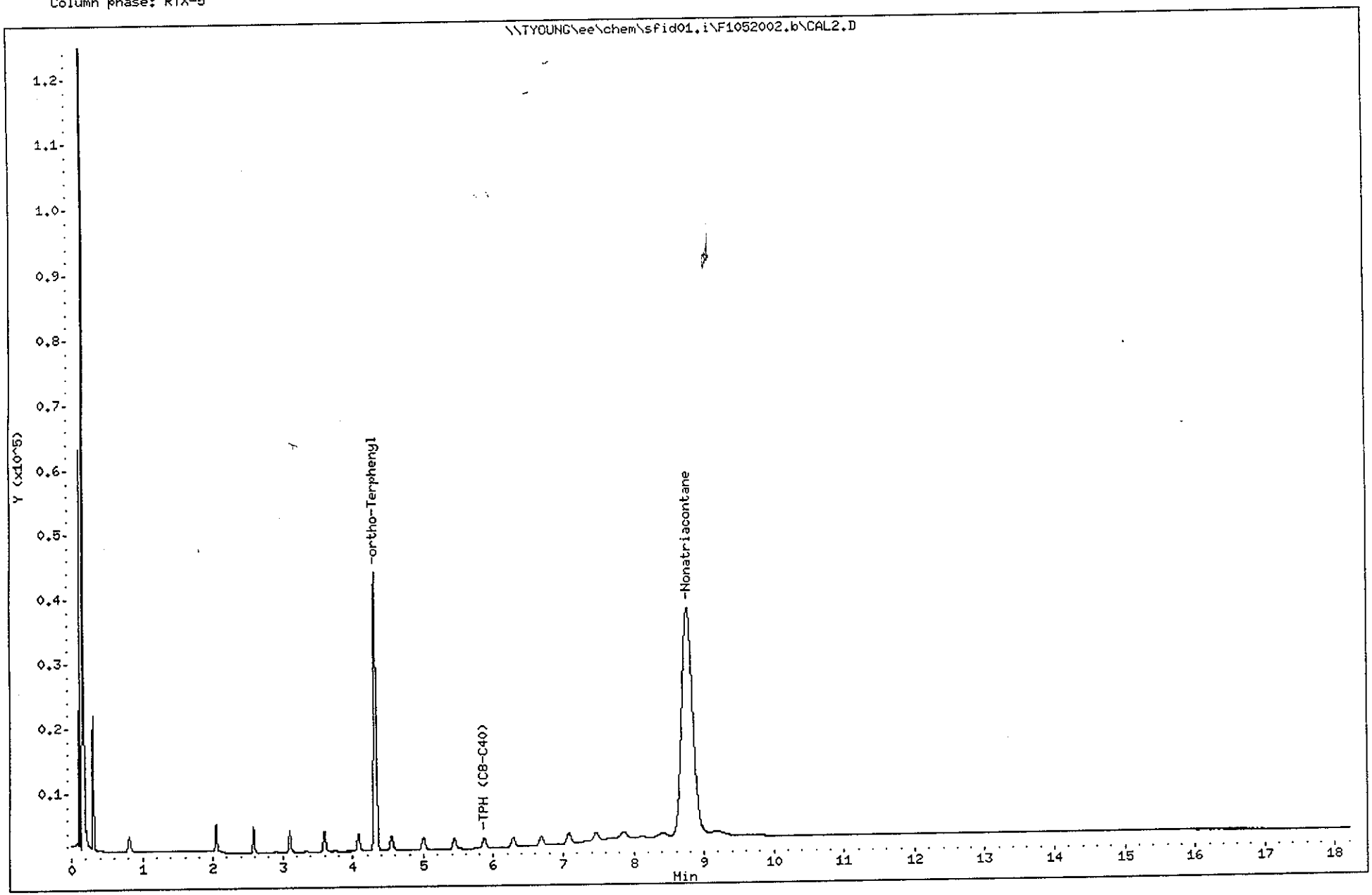
QC Flag Legend

M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid01.i\F1052002.b\CAL2.D
Date : 20-MAY-2002 11:44
Client ID:
Sample Info: CAL2SV
Volume Injected (uL): 1000.0
Column phase: RTX-5

Instrument: sfid01.i

Operator: LM
Column diameter: 0.53



PEL Laboratories, Inc.

Data file : \\TYOUNG\ee\chem\sfid01.i\F1052002.b\CAL1.D
Lab Smp Id: SECSV
Inj Date : 20-MAY-2002 12:41
Operator : LM Inst ID: sfid01.i
Smp Info : SECSV
Misc Info : Florida PRO
Comment :
Method : \\TYOUNG\ee\chem\sfid01.i\F1052002.b\FLPROW.m
Meth Date : 21-May-2002 16:39 lmchugh Quant Type: ESTD
Cal Date : 20-MAY-2002 12:41 Cal File: CAL1.D
Als bottle: 8 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.04
Processing Host: SVHPLC3

Concentration Formula: Amt * DF * ((1/((Ws*((100-M)/100))/1000))*Vf)

Name	Value	Description
DF	1.000	Dilution Factor
Ws	25.000	Weight of Sample
M	0.000	% Moisture
Vf	2.000	Final extract volume

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/ml)	AMOUNTS ON-COL (mg/ml)
S	1 TPH (C8-C40)	1.750-10.500			1621506	0.03400	0.058(M)
$	2 ortho-Terphenyl	4.340	4.340	0.000	525075	0.05000	0.049(M)
$	3 Nonatriacontane	8.903	8.903	0.000	1835259	0.30000	0.30(M)

LM

QC Flag Legend

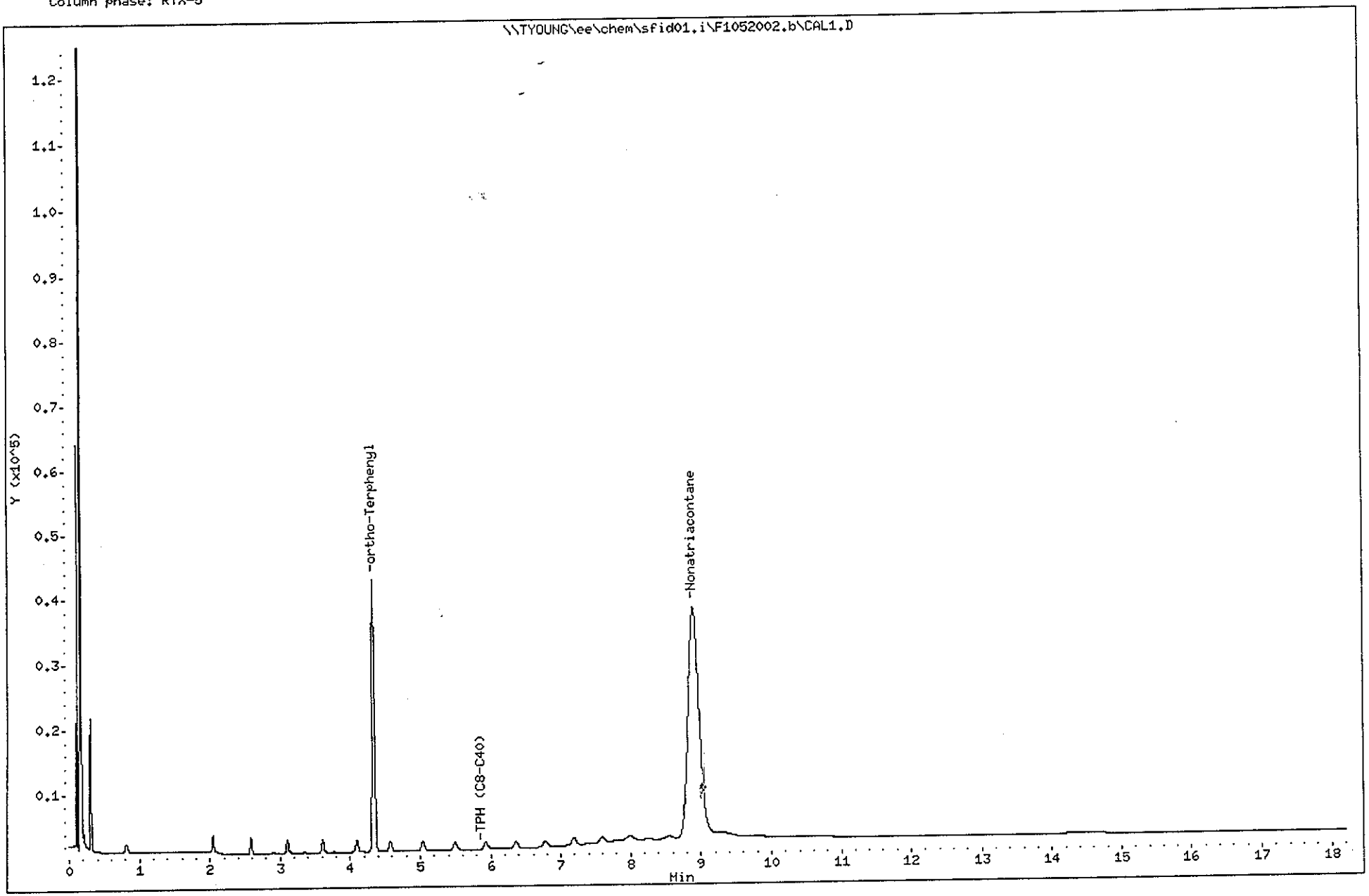
M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid01.i\F1052002.b\CAL1.D
Date : 20-MAY-2002 12:41
Client ID:
Sample Info: SECSV

Column phase: RTX-5

Instrument: sfid01.i

Operator: LM
Column diameter: 0.53



PEL Laboratories, Inc.

Data file : \\TYOUNG\ee\chem\sfid01.i\F1052002.b\SEC2.D
Lab Smp Id: SECSVV
Inj Date : 20-MAY-2002 13:09
Operator : LM Inst ID: sfid01.i
Smp Info : SECSVV
Misc Info :
Comment :
Method : \\Tyoung\ee\chem\sfid01.i\F1052002.b\FLPROS.m
Meth Date : 21-May-2002 16:39 lmchugh Quant Type: ESTD
Cal Date : 20-MAY-2002 12:41 Cal File: CAL1.D
Als bottle: 9 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.04
Processing Host: SVHPLC3

Concentration Formula: Amt * DF * ((1/((Ws*((100-M)/100))/100))*Vf)

Name	Value	Description
DF	1.000	Dilution Factor
Ws	25.000	Weight of Sample
M	0.000	% Moisture
Vf	2.000	Final extract volume

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/ml)	AMOUNTS ON-COL (mg/ml)
S 1 TPH (C8-C40)	1.750-10.500			19925548	2.55000	2.1(M)
$ 2 ortho-Terphenyl	4.363	4.363	0.000	528993	0.05000	0.049(M)
$ 3 Nonatriacontane	8.940	8.940	0.000	1783917	0.30000	0.29(M)

LM

QC Flag Legend

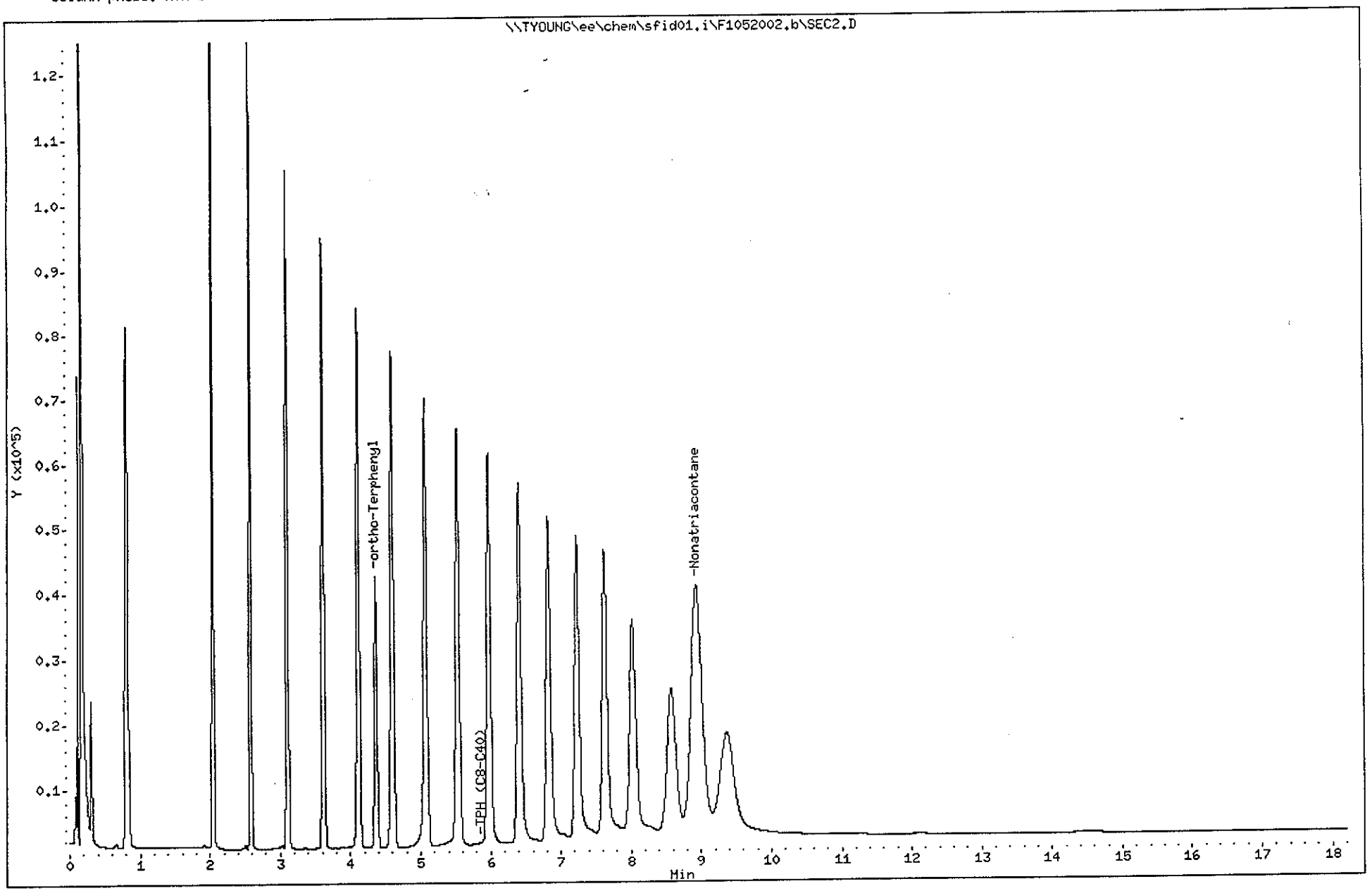
M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid01.i\F1052002.b\SEC2.D
Date : 20-MAY-2002 13:09
Client ID:
Sample Info: SECSVV

Column phase: RTX-5

Instrument: sfid01.i

Operator: LM
Column diameter: 0.53



PEL Laboratories, Inc.

Data file : \\TYOUNG\ee\chem\sfid01.i\F105200P.b\CCVS1.D
Lab Smp Id: CAL5SV
Inj Date : 20-MAY-2002 14:06
Operator : LM Inst ID: sfid01.i
Smp Info : CAL5SV
Misc Info : Florida PRO
Comment :
Method : \\TYOUNG\ee\chem\sfid01.i\F105200P.b\FLPROW.m
Meth Date : 21-May-2002 16:40 lmchugh Quant Type: ESTD
Cal Date : 20-MAY-2002 12:41 Cal File: CAL1.D
Als bottle: 99 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.04
Processing Host: SVHPLC3

Concentration Formula: Amt * DF * (1/(Vi/1000)*Vf)

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1000.000	Sample Initial Volume
Vf	2.000	Final Extract Volume

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/ml)	AMOUNTS ON-COL (mg/ml)
S	1 TPH (C8-C40)	1.750-10.500			21354549	2.55000	2.2(M)
$	2 ortho-Terphenyl	4.353	4.353	0.000	533199	0.05000	0.050(M)
$	3 Nonatriacontane	8.900	8.900	0.000	1878089	0.30000	0.30(M)

LMC

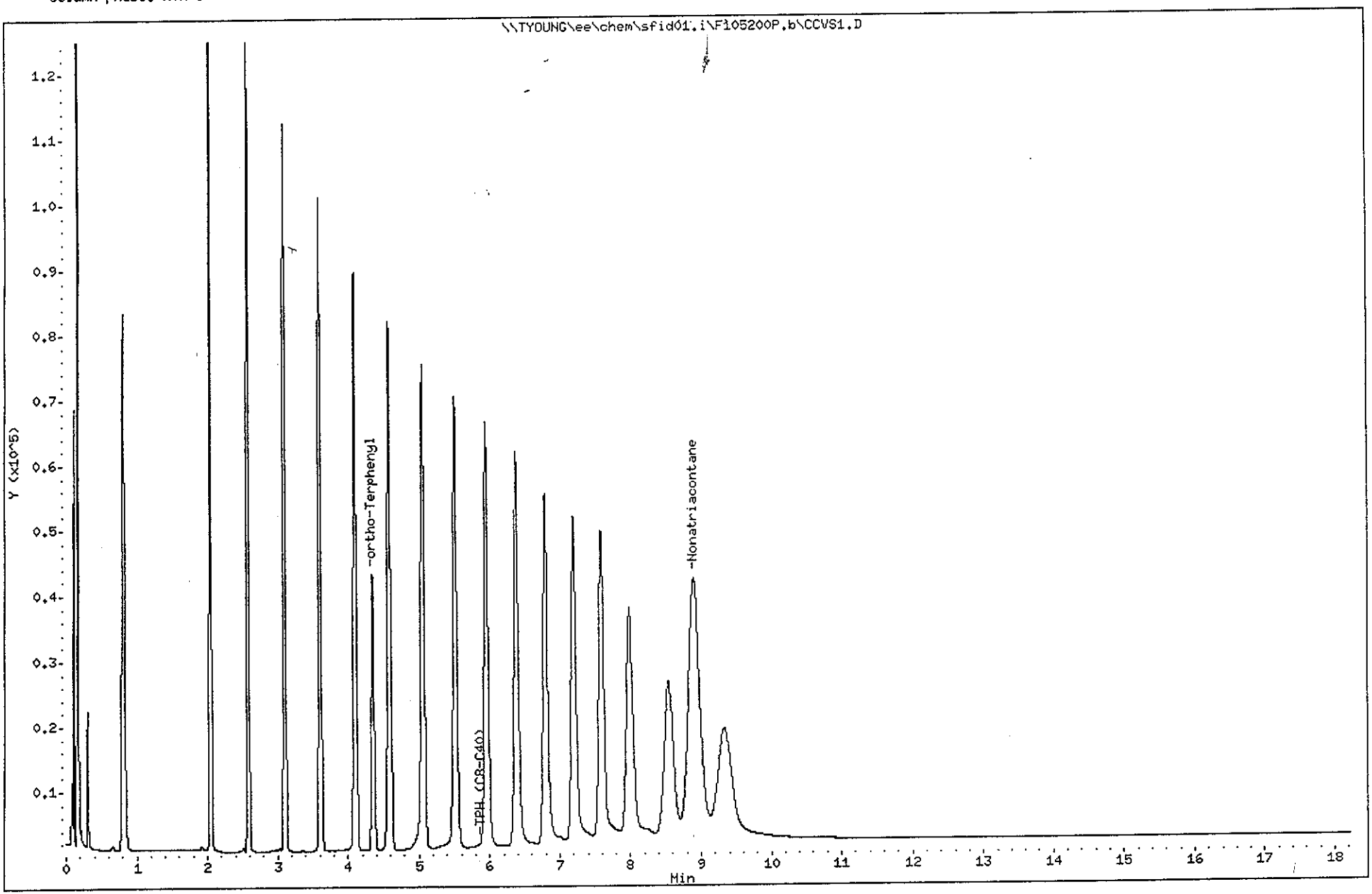
QC Flag Legend

M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid01.i\F105200P.b\CCVS1.D
Date : 20-MAY-2002 14:06
Client ID:
Sample Info: CAL5SV
Volume Injected (uL): 1000.0
Column phase: RTX-5

Instrument: sfid01.i

Operator: LH
Column diameter: 0.53



PEL Laboratories, Inc.

Data file : \\TYOUNG\ee\chem\sfid01.i\F105200P.b\29-1D.D
Lab Smp Id: 220402901 Client Smp ID: 062CEF432N
Inj Date : 20-MAY-2002 16:28
Operator : LM Inst ID: sfid01.i
Smp Info : 220402901
Misc Info : Florida PRO
Comment :
Method : \\TYOUNG\ee\chem\sfid01.i\F105200P.b\FLPROW.m
Meth Date : 21-May-2002 16:40 lmchugh Quant Type: ESTD
Cal Date : 20-MAY-2002 12:41 Cal File: CAL1.D
Als bottle: 5
Dil Factor: 10.00000
Integrator: HP Genie Compound Sublist: rl.sub
Target Version: 4.04
Processing Host: SVHPLC3

Concentration Formula: Amt * DF * (1/(Vi/1000)*Vf)

Name	Value	Description
DF	10.000	Dilution Factor
Vi	950.000	Sample Initial Volume
Vf	2.000	Final Extract Volume

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/ml)	CONCENTRATIONS FINAL (mg/L)
$ 1 TPH (C8-C40)	1.750-10.500			11646138	1.16918	24.6(M)
$ 2 ortho-Terphenyl	4.350	4.353	-0.003	38828	0.00363	0.0076(RM)
$ 3 Nonatriacontane	8.876	8.900	-0.024	110308	0.01779	0.037(M)

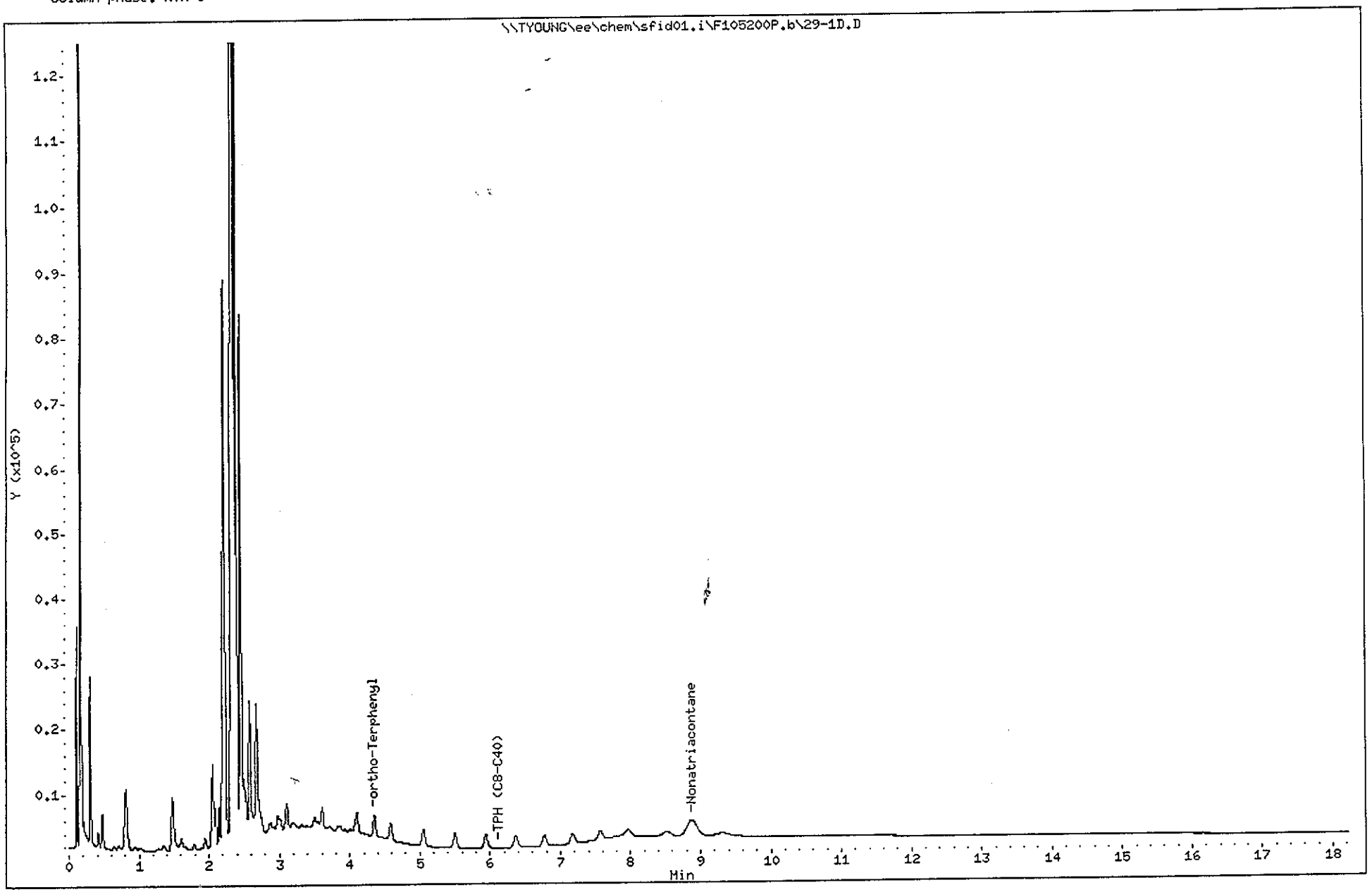
QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid01.i\F105200P.b\29-1D.D
Date : 20-MAY-2002 16:28
Client ID: 062CEF432N
Sample Info: 220402901
Volume Injected (uL): 950.0
Column phase: RTX-5

Instrument: sfid01.i

Operator: LM
Column diameter: 0.53



PEL Laboratories, Inc.

Data file : \\TYOUNG\ee\chem\sfid01.i\F105200P.b\29-4.D
Lab Smp Id: 220402904 Client Smp ID: 062CEF436N
Inj Date : 20-MAY-2002 16:57
Operator : LM Inst ID: sfid01.i
Smp Info : 220402904
Misc Info : Florida PRO
Comment :
Method : \\TYOUNG\ee\chem\sfid01.i\F105200P.b\FLPROW.m
Meth Date : 21-May-2002 16:40 lmchugh Quant Type: ESTD
Cal Date : 20-MAY-2002 12:41 Cal File: CAL1.D
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: rl.sub
Target Version: 4.04
Processing Host: SVHPLC3

Concentration Formula: Amt * DF * (1/(Vi/1000)*Vf)

Name	Value	Description
DF	1.000	Dilution Factor
Vi	965.000	Sample Initial Volume
Vf	2.000	Final Extract Volume

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/ml)	CONCENTRATIONS FINAL (mg/L)
S 1 TPH (C8-C40)	1.750-10.500			16618256	1.72046	3.6(M)
$ 2 ortho-Terphenyl	4.343	4.353	-0.010	436625	0.04079	0.084(M)
$ 3 Nonatriacontane	8.893	8.900	-0.007	1827386	0.29468	0.61(M)

LM

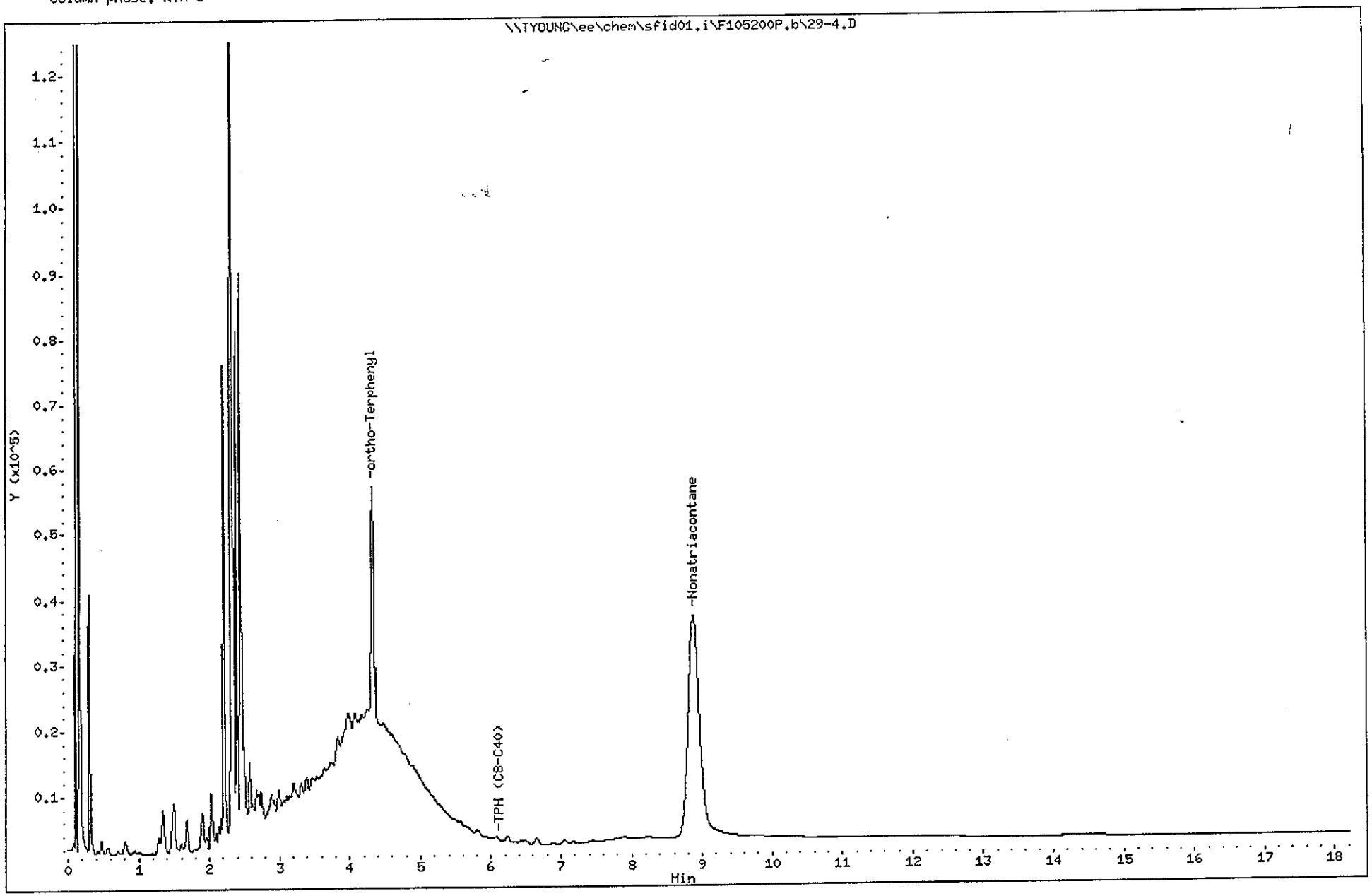
QC Flag Legend

M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid01.i\F105200P.b\29-4.D
Date : 20-MAY-2002 16:57
Client ID: 062CEF436N
Sample Info: 220402904
Volume Injected (uL): 965.0
Column phase: RTX-5

Instrument: sfid01.i

Operator: LM
Column diameter: 0.53



PEL Laboratories, Inc.

Data file : \\TYOUNG\ee\chem\sfid01.i\F105200P.b\29-5.D
Lab Smp Id: 220402905 Client Smp ID: 062CEF437N
Inj Date : 20-MAY-2002 17:25
Operator : LM Inst ID: sfid01.i
Smp Info : 220402905
Misc Info : Florida PRO
Comment :
Method : \\TYOUNG\ee\chem\sfid01.i\F105200P.b\FLPROW.m
Meth Date : 21-May-2002 16:40 lmchugh Quant Type: ESTD
Cal Date : 20-MAY-2002 12:41 Cal File: CAL1.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: rl.sub
Target Version: 4.04
Processing Host: SVHPLC3

Concentration Formula: Amt * DF * (1/(Vi/1000)*Vf)

Name	Value	Description
DF	1.000	Dilution Factor
Vi	940.000	Sample Initial Volume
Vf	2.000	Final Extract Volume

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/ml)	CONCENTRATIONS FINAL (mg/L)
S 1 TPH (C8-C40)	1.750-10.500			12171878	1.22747	2.6(M)
$ 2 ortho-Terphenyl	4.346	4.353	-0.007	447543	0.04181	0.089(RM)
$ 3 Nonatriacontane	8.903	8.900	0.003	1990960	0.32106	0.68(M)

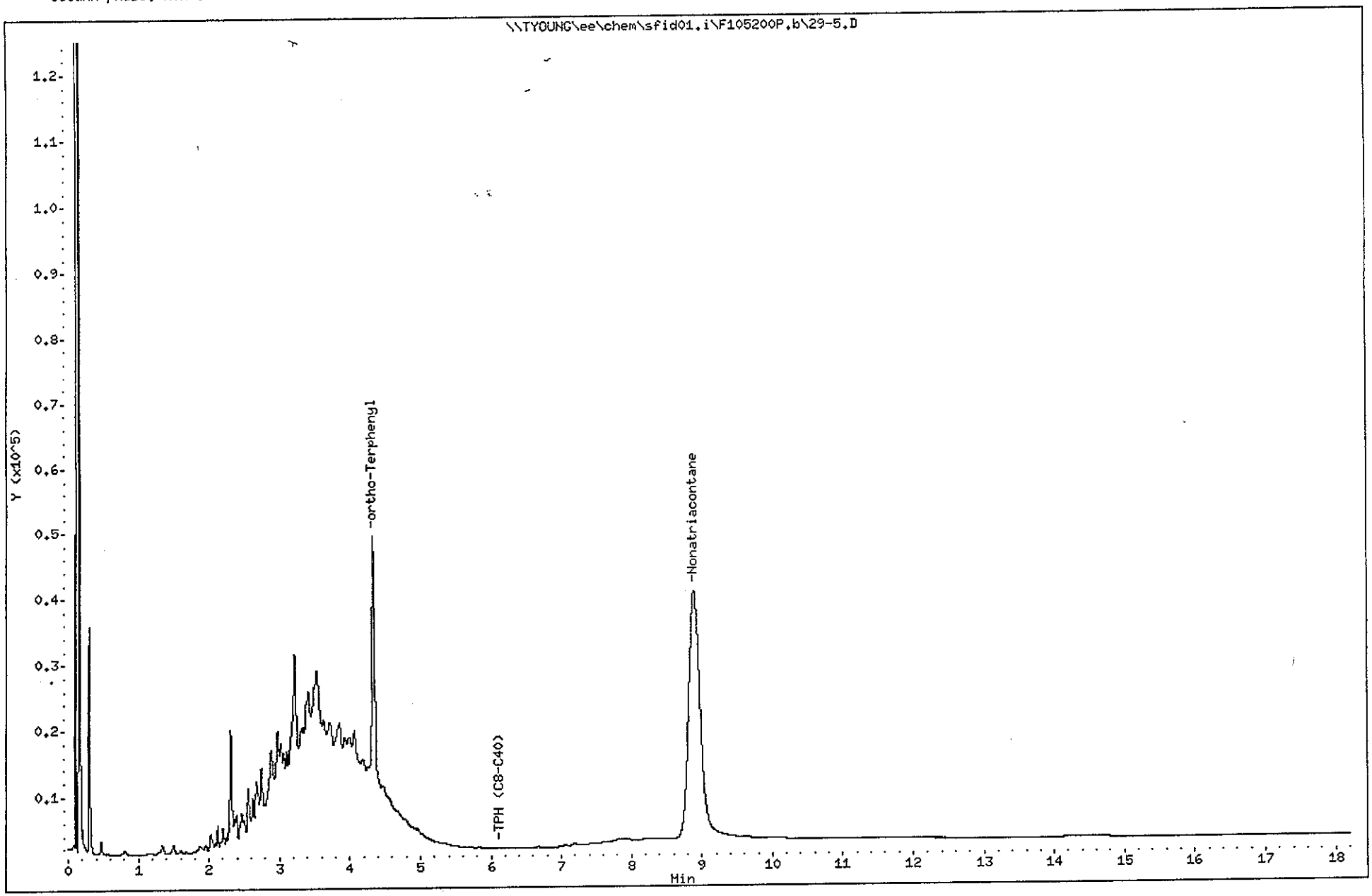
QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid01.i\F105200P.b\29-5.D
Date : 20-MAY-2002 17:25
Client ID: 062CEF437N
Sample Info: 220402905
Volume Injected (uL): 940.0
Column phase: RTX-5

Instrument: sfid01.i

Operator: LM
Column diameter: 0.53



PEL Laboratories, Inc.

Data file : \\TYOUNG\ee\chem\sfid01.i\F105200P.b\29-6.D
Lab Smp Id: 220402906 Client Smp ID: 062CEF439N
Inj Date : 20-MAY-2002 17:54
Operator : LM Inst ID: sfid01.i
Smp Info : 220402906
Misc Info : Florida PRO
Comment :
Method : \\TYOUNG\ee\chem\sfid01.i\F105200P.b\FLPROW.m
Meth Date : 21-May-2002 16:40 lmchugh Quant Type: ESTD
Cal Date : 20-MAY-2002 12:41 Cal File: CAL1.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: rl.sub
Target Version: 4.04
Processing Host: SVHPLC3

Concentration Formula: Amt * DF * (1/(Vi/1000)*Vf)

Name	Value	Description
DF	1.000	Dilution Factor
Vi	910.000	Sample Initial Volume
Vf	2.000	Final Extract Volume

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/ml)	CONCENTRATIONS FINAL (mg/L)
S 1 TPH (C8-C40)	1.750-10.500			22697096	2.39445	5.3(M)
$ 2 ortho-Terphenyl	4.340	4.353	-0.013	238690	0.02230	0.049(RM)
$ 3 Nonatriacontane	8.840	8.900	-0.060	1077123	0.17370	0.38(M)

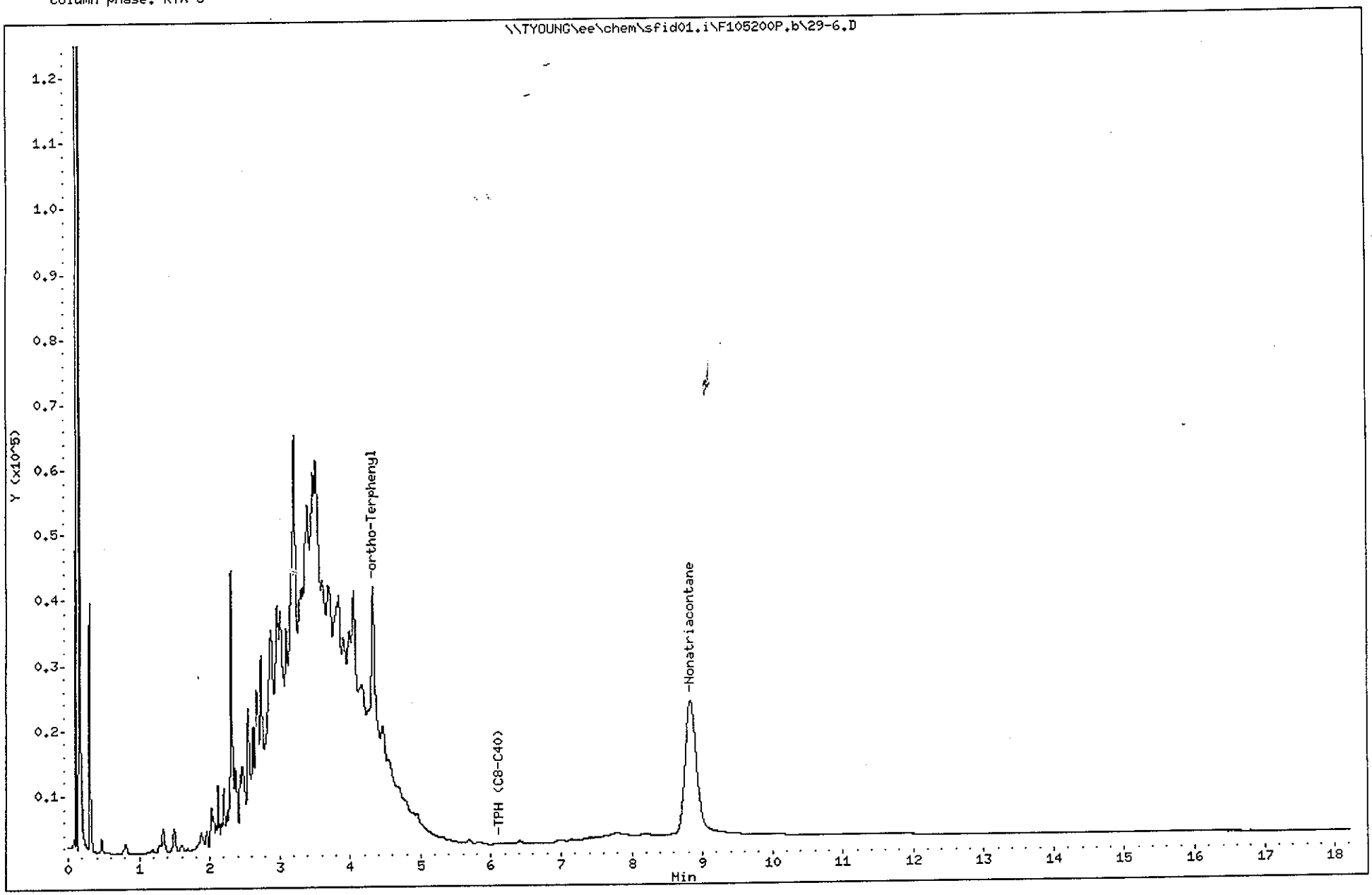
QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid01.i\F105200P.b\29-6.D
Date : 20-MAY-2002 17:54
Client ID: 062CEF439N
Sample Info: 220402906
Volume Injected (uL): 910.0
Column phase: RTX-5

Instrument: sfid01.i

Operator: LM
Column diameter: 0.53



PEL Laboratories, Inc.

Data file : \\TYOUNG\ee\chem\sfid01.i\F105200P.b\29-7.D
Lab Smp Id: 220402907 Client Smp ID: 062CEF4333N
Inj Date : 20-MAY-2002 18:22
Operator : LM Inst ID: sfid01.i
Smp Info : 220402907
Misc Info : Florida PRO
Comment :
Method : \\TYOUNG\ee\chem\sfid01.i\F105200P.b\FLPROW.m
Meth Date : 21-May-2002 16:40 lmchugh Quant Type: ESTD
Cal Date : 20-MAY-2002 12:41 Cal File: CAL1.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: rl.sub
Target Version: 4.04
Processing Host: SVHPLC3

Concentration Formula: Amt * DF * (1/(Vi/1000)*Vf)

Name	Value	Description
DF	1.000	Dilution Factor
Vi	915.000	Sample Initial Volume
Vf	2.000	Final Extract Volume

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/ml)	CONCENTRATIONS FINAL (mg/L)
$ 2 ortho-Terphenyl	4.320	4.353	-0.033	399644	0.03733	0.082(RM)
$ 3 Nonatriacontane	8.843	8.900	-0.057	1958458	0.31582	0.69(M)

LM

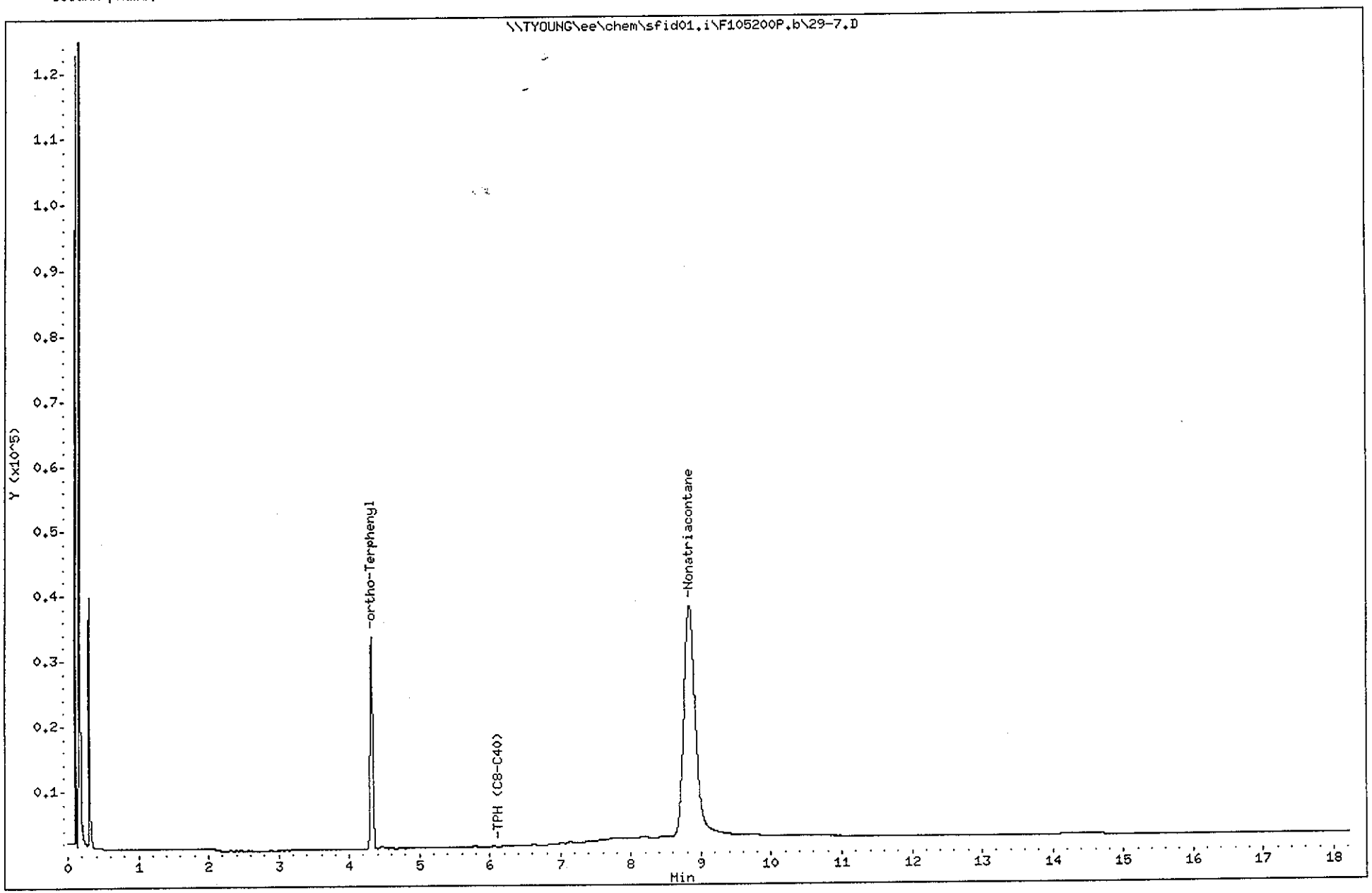
QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid01.i\F105200P.b\29-7.D
Date : 20-MAY-2002 18:22
Client ID: 062CEF4333N
Sample Info: 220402907
Volume Injected (uL): 915.0
Column phase: RTX-5

Instrument: sfid01.i

Operator: LM
Column diameter: 0.53



PEL Laboratories, Inc.

Data file : \\TYOUNG\ee\chem\sfid01.i\F105200P.b\29-8.D
Lab Smp Id: 220402908 Client Smp ID: 062CEF4338N
Inj Date : 20-MAY-2002 18:51
Operator : LM Inst ID: sfid01.i
Smp Info : 220402908
Misc Info : Florida PRO
Comment :
Method : \\TYOUNG\ee\chem\sfid01.i\F105200P.b\FLPROW.m
Meth Date : 21-May-2002 16:40 lmchugh Quant Type: ESTD
Cal Date : 20-MAY-2002 12:41 Cal File: CAL1.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: rl.sub
Target Version: 4.04
Processing Host: SVHPLC3

Concentration Formula: Amt * DF * (1/(Vi/1000)*Vf)

Name	Value	Description
DF	1.000	Dilution Factor
Vi	900.000	Sample Initial Volume
Vf	2.000	Final Extract Volume

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/ml)	CONCENTRATIONS FINAL (mg/L)
$ 2 ortho-Terphenyl	4.320	4.353	-0.033	427941	0.03998	0.089(RM)
$ 3 Nonatriacontane	8.753	8.900	-0.147	2048170	0.33029	0.73(M)

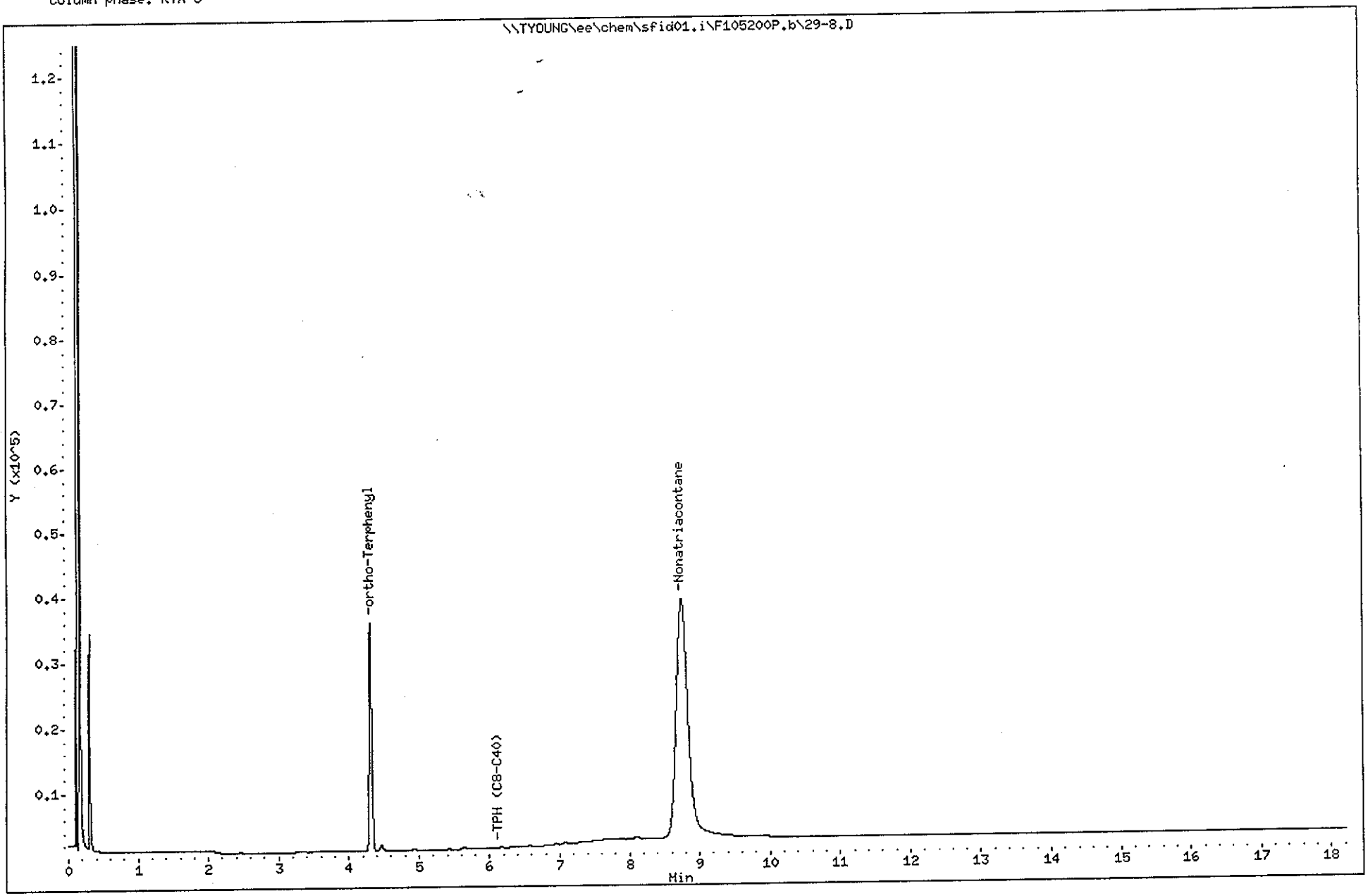
QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid01.i\F105200P.b\29-8.D
Date : 20-MAY-2002 18:51
Client ID: 062CEF4338N
Sample Info: 220402908
Volume Injected (uL): 900.0
Column phase: RTX-5

Instrument: sfid01.i

Operator: LM
Column diameter: 0.53



PEL Laboratories, Inc.

Data file : \\TYOUNG\ee\chem\sfid01.i\F105200P.b\CCVS2.D
Lab Smp Id: CCV2SV
Inj Date : 20-MAY-2002 19:19
Operator : LM Inst ID: sfid01.i
Smp Info : CCV2SV
Misc Info : Florida PRO
Comment :
Method : \\TYOUNG\ee\chem\sfid01.i\F105200P.b\FLPROW.m
Meth Date : 21-May-2002 16:40 lmchugh Quant Type: ESTD
Cal Date : 20-MAY-2002 12:41 Cal File: CAL1.D
Als bottle: 99 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.04
Processing Host: SVHPLC3

Concentration Formula: Amt * DF * (1/(Vi/1000)*Vf)

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1000.000	Sample Initial Volume
Vf	2.000	Final Extract Volume

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/ml)	AMOUNTS ON-COL (mg/ml)
S 1 TPH (C8-C40)	1.750-10.500			24079849	2.55000	2.5(M)
$ 2 ortho-Terphenyl	4.323	4.323	0.000	581193	0.05000	0.054(M)
$ 3 Nonatriacontane	8.796	8.796	0.000	2205286	0.30000	0.36(M)

LM

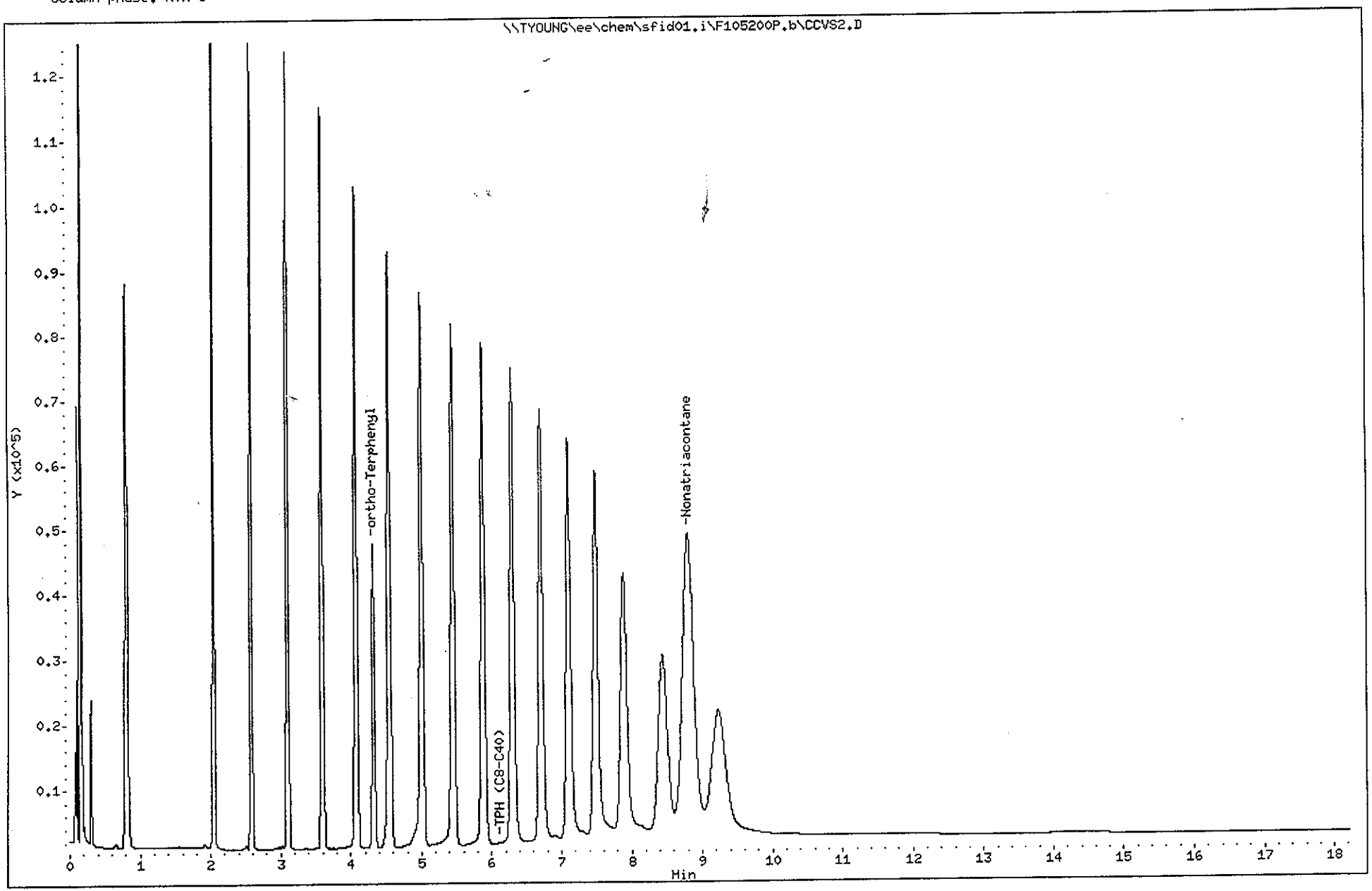
QC Flag Legend

M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid01.i\F105200P.b\CCVS2.D
Date : 20-MAY-2002 19:19
Client ID:
Sample Info: CCV2SV
Volume Injected (uL): 1000.0
Column phase: RTX-5

Instrument: sfid01.i

Operator: LM
Column diameter: 0.53



PEL Laboratories, Inc.

Data file : \\TYOUNG\ee\chem\sfid01.i\F105200P.b\29-9.D
Lab Smp Id: 220402909 Client Smp ID: 062DUPQ20249
Inj Date : 20-MAY-2002 19:47
Operator : LM Inst ID: sfid01.i
Smp Info : 220402909
Misc Info : Florida PRO
Comment :
Method : \\TYOUNG\ee\chem\sfid01.i\F105200P.b\FLPROW.m
Meth Date : 21-May-2002 16:42 lmchugh Quant Type: ESTD
Cal Date : 20-MAY-2002 12:41 Cal File: CAL1.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: rl.sub
Target Version: 4.04
Processing Host: SVHPLC3

Concentration Formula: Amt * DF * (1/(Vi/1000)*Vf)

Name	Value	Description
DF	1.000	Dilution Factor
Vi	932.000	Sample Initial Volume
Vf	2.000	Final Extract Volume

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/ml)	CONCENTRATIONS FINAL (mg/L)
S 1 TPH (C8-C40)	1.750-10.500			16494185	1.70671	3.7(M)
$ 2 ortho-Terphenyl	4.310	4.336	-0.026	448383	0.04189	0.090(RM)
$ 3 Nonatriacontane	8.760	8.883	-0.123	2052503	0.33098	0.71(M)

LM

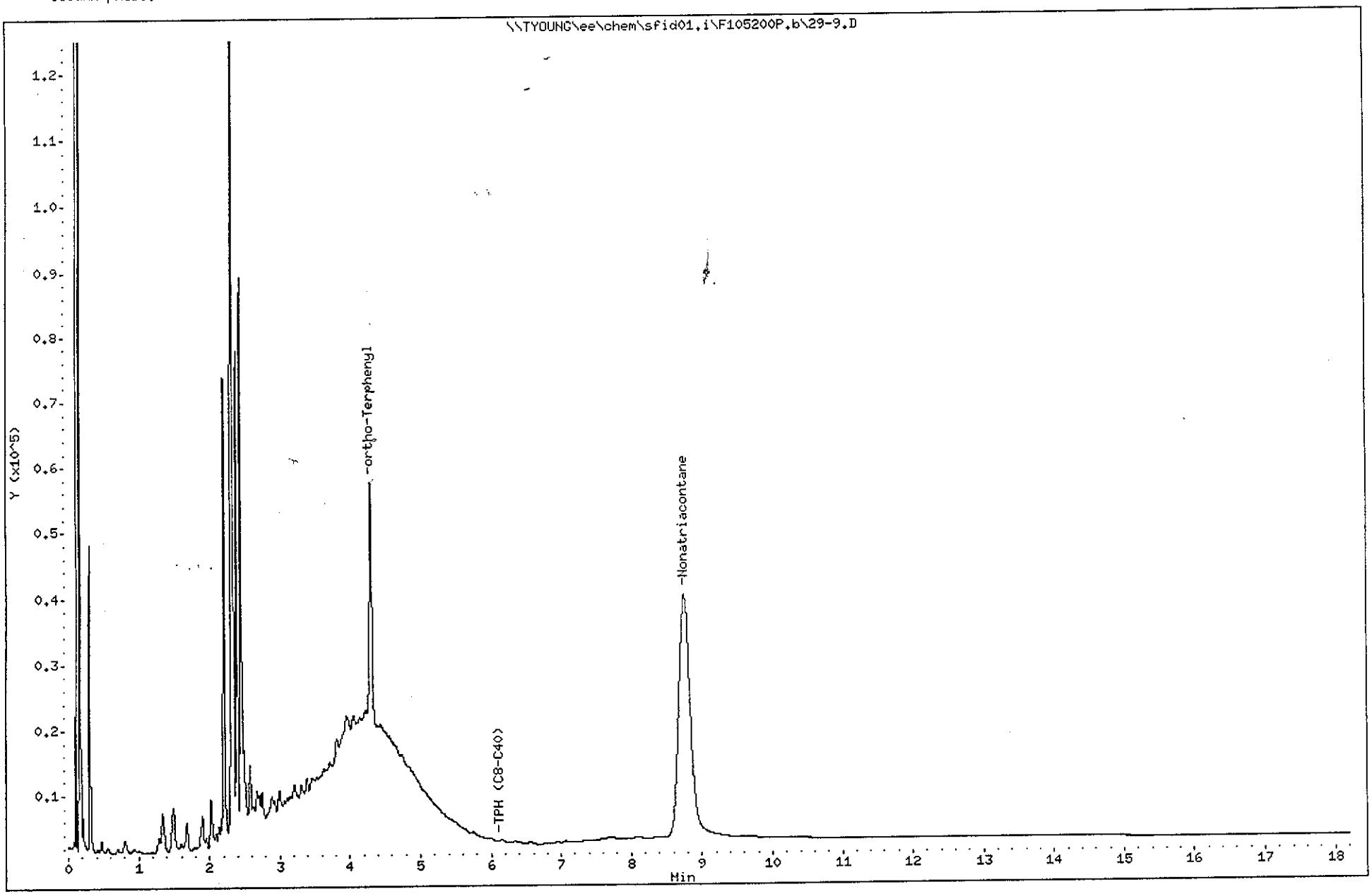
QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid01.i\F105200P.b\29-9.D
Date : 20-MAY-2002 19:47
Client ID: 062DUPQ20249
Sample Info: 220402909
Volume Injected (uL): 932.0
Column phase: RTX-5

Instrument: sfid01.i

Operator: LM
Column diameter: 0.53



PEL Laboratories, Inc.

Data file : \\TYOUNG\ee\chem\sfid01.i\F105200P.b\29-10.D
Lab Smp Id: 220402910 Client Smp ID: 062EQBQ20249
Inj Date : 20-MAY-2002 20:16
Operator : LM Inst ID: sfid01.i
Smp Info : 220402910
Misc Info : Florida PRO
Comment :
Method : \\TYOUNG\ee\chem\sfid01.i\F105200P.b\FLPROW.m
Meth Date : 21-May-2002 16:40 lmchugh Quant Type: ESTD
Cal Date : 20-MAY-2002 12:41 Cal File: CAL1.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: rl.sub
Target Version: 4.04
Processing Host: SVHPLC3

Concentration Formula: Amt * DF * (1/(Vi/1000)*Vf)

Name	Value	Description
DF	1.000	Dilution Factor
Vi	950.000	Sample Initial Volume
Vf	2.000	Final Extract Volume

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/ml)	CONCENTRATIONS FINAL (mg/L)
$ 2 ortho-Terphenyl	4.313	4.323	-0.010	437978	0.04091	0.086(M)
$ 3 Nonatriacontane	8.753	8.796	-0.043	2156236	0.34771	0.73(M)

LM

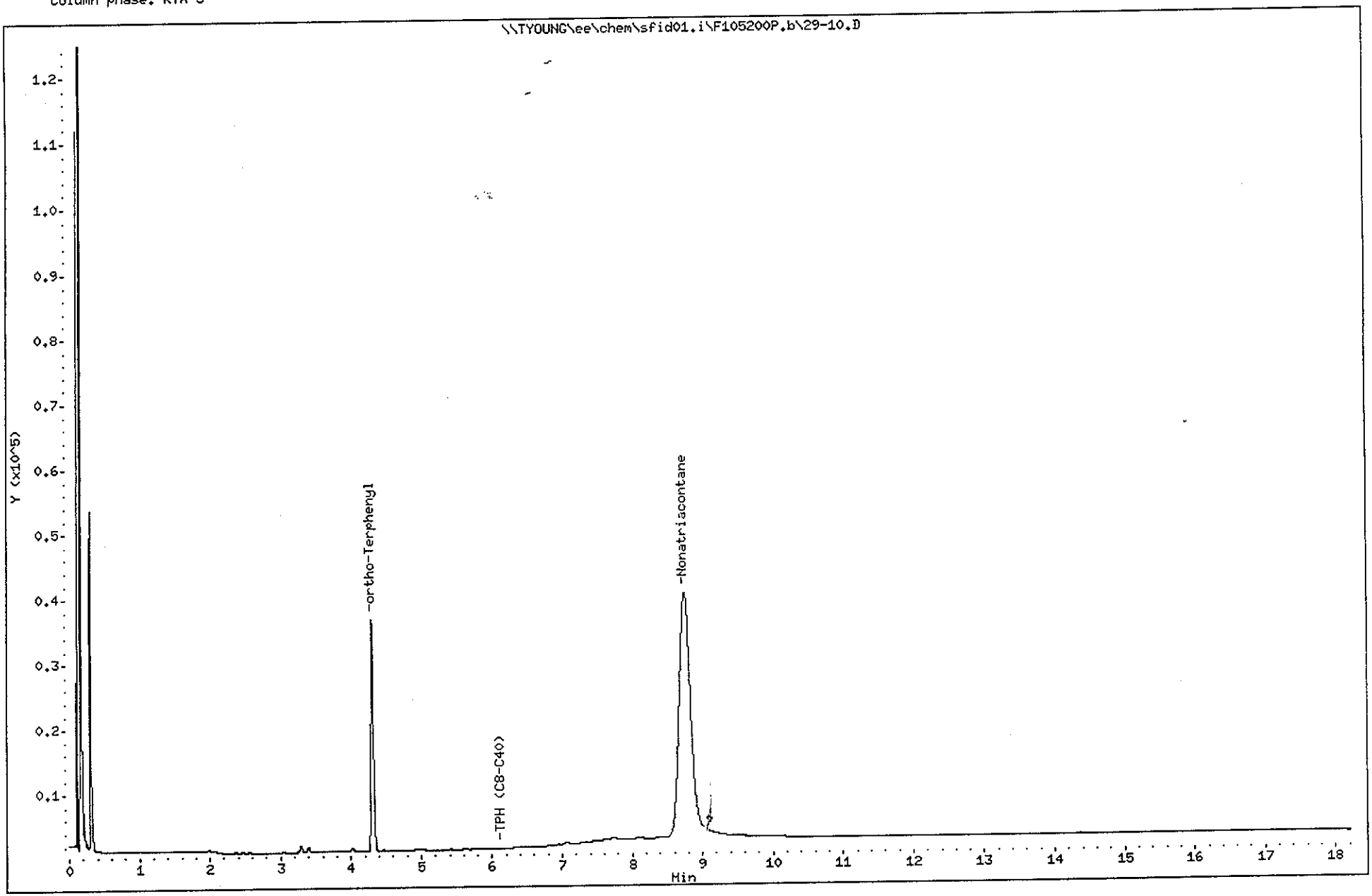
QC Flag Legend

M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid01.i\F105200P.b\29-10.D
Date : 20-MAY-2002 20:16
Client ID: 062EQBQ20249
Sample Info: 220402910
Volume Injected (uL): 950.0
Column phase: RTX-5

Instrument: sfid01.i

Operator: LM
Column diameter: 0.53



PEL Laboratories, Inc.

Data file : \\TYOUNG\ee\chem\sfid01.i\F105200P.b\CCVS3.D
Lab Smp Id: CCV3SV
Inj Date : 20-MAY-2002 20:44
Operator : LM Inst ID: sfid01.i
Smp Info : CCV3SV
Misc Info : Florida PRO
Comment :
Method : \\TYOUNG\ee\chem\sfid01.i\F105200P.b\FLPROW.m
Meth Date : 21-May-2002 16:41 lmchugh Quant Type: ESTD
Cal Date : 20-MAY-2002 12:41 Cal File: CAL1.D
Als bottle: 99 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.04
Processing Host: SVHPLC3

Concentration Formula: Amt * DF * (1/(Vi/1000)*Vf)

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1000.000	Sample Initial Volume
Vf	2.000	Final Extract Volume

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/ml)	AMOUNTS ON-COL (mg/ml)
S 1 TPH (C8-C40)	1.750-10.500			23340547	2.55000	2.5(M)
$ 2 ortho-Terphenyl	4.313	4.313	0.000	570381	0.05000	0.053(M)
$ 3 Nonatriacontane	8.726	8.726	0.000	2116291	0.30000	0.34(M)

LM

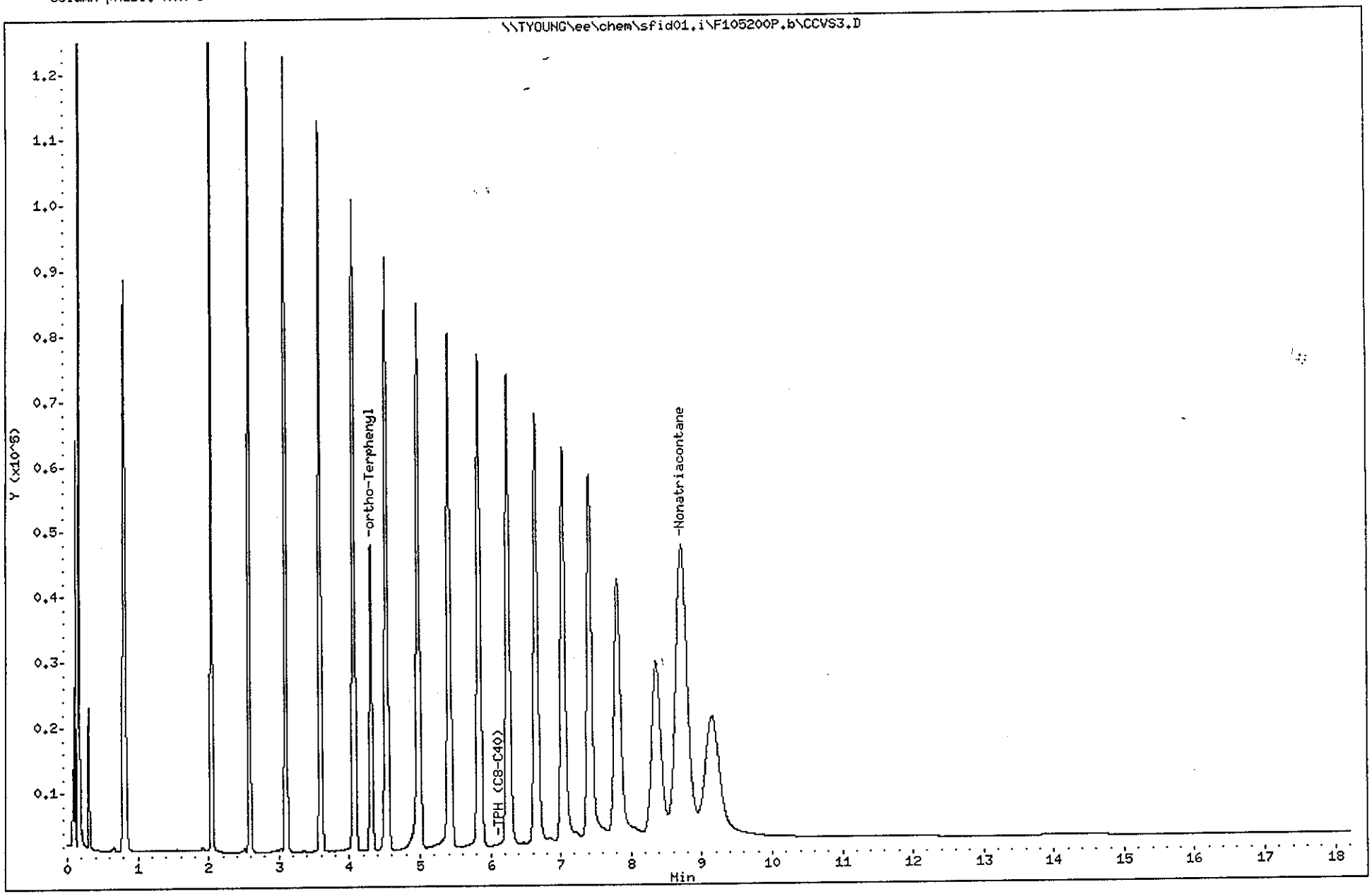
QC Flag Legend

M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid01.i\F105200P.b\CCVS3.D
Date : 20-MAY-2002 20:44
Client ID:
Sample Info: CCV3SV
Volume Injected (uL): 1000.0
Column phase: RTX-5

Instrument: sfid01.i

Operator: LM
Column diameter: 0.53



PEL Laboratories, Inc.

Data file : \\TYOUNG\ee\chem\sfid01.i\F105200P.b\BLK2.D
Lab Smp Id: 69260 Client Smp ID: BLK2
Inj Date : 20-MAY-2002 21:13
Operator : LM Inst ID: sfid01.i
Smp Info : 69260
Misc Info : Florida PRO
Comment :
Method : \\TYOUNG\ee\chem\sfid01.i\F105200P.b\FLPROW.m
Meth Date : 21-May-2002 16:41 lmchugh Quant Type: ESTD
Cal Date : 20-MAY-2002 12:41 Cal File: CAL1.D
Als bottle: 13 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: rl.sub
Target Version: 4.04
Processing Host: SVHPLC3

Concentration Formula: Amt * DF * (1/(Vi/1000)*Vf)

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1000.000	Sample Initial Volume
Vf	2.000	Final Extract Volume

					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/ml)	(mg/L)
$ 2 ortho-Terphenyl	4.306	4.313	-0.007	440463	0.04115	0.082(M)
$ 3 Nonatriacontane	8.726	8.726	0.000	2043662	0.32956	0.66(M)

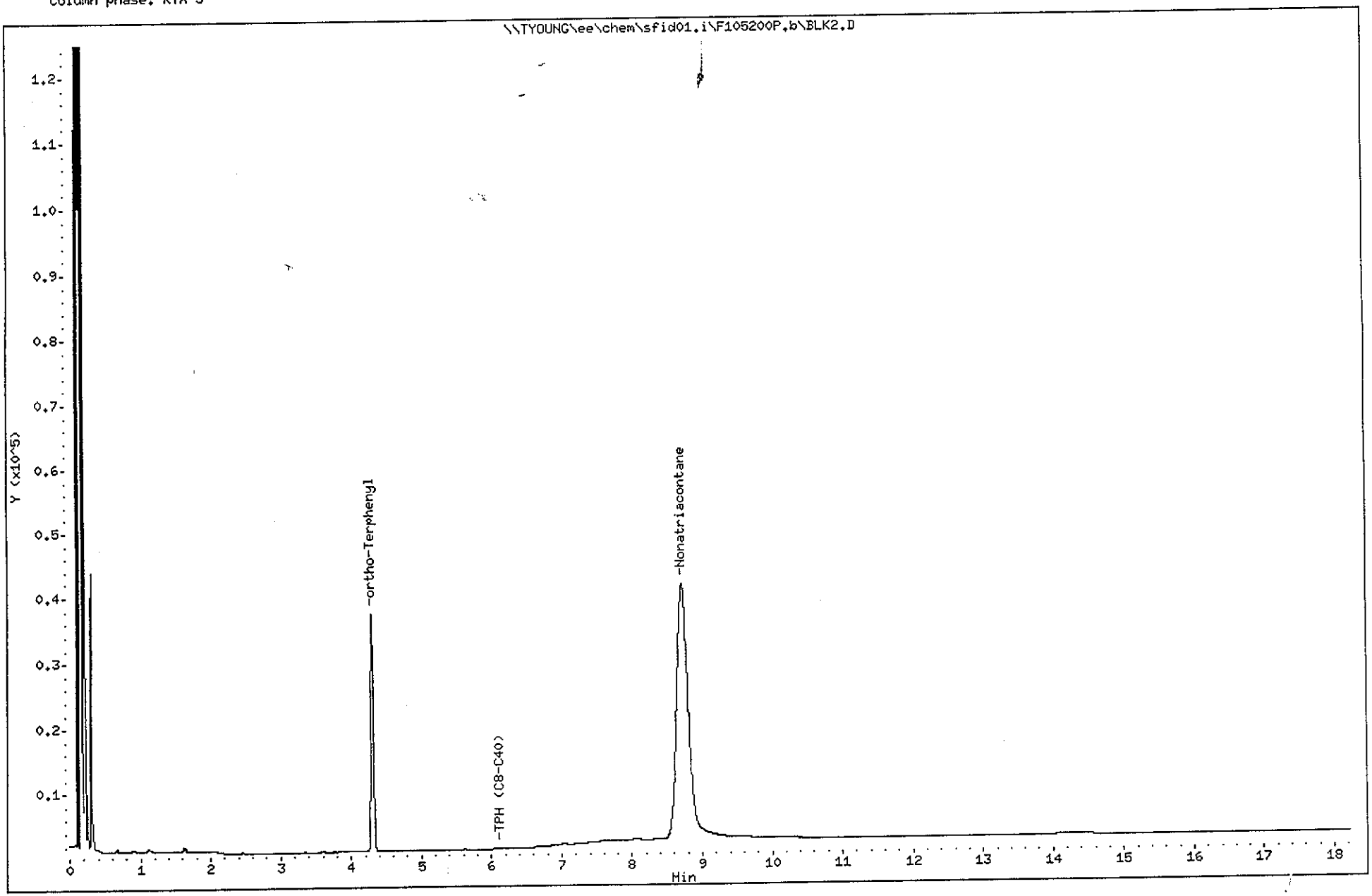
QC Flag Legend

M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid01.i\F105200P.b\BLK2.D
Date : 20-MAY-2002 21:13
Client ID: BLK2
Sample Info: 69260
Volume Injected (uL): 1000.0
Column phase: RTX-5

Instrument: sfid01.i

Operator: LM
Column diameter: 0.53



PEL Laboratories, Inc.

Data file : \\TYOUNG\ee\chem\sfid01.i\F105200P.b\LCS2.D
Lab Smp Id: 69261 Client Smp ID: LCS2
Inj Date : 20-MAY-2002 21:41
Operator : LM Inst ID: sfid01.i
Smp Info : 69261
Misc Info : Florida PRO
Comment :
Method : \\TYOUNG\ee\chem\sfid01.i\F105200P.b\FLPROW.m
Meth Date : 21-May-2002 16:41 lmchugh Quant Type: ESTD
Cal Date : 20-MAY-2002 12:41 Cal File: CAL1.D
Als bottle: 14 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: rl.sub
Target Version: 4.04
Processing Host: SVHPLC3

Concentration Formula: Amt * DF * (1/(Vi/1000)*Vf)

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1000.000	Sample Initial Volume
Vf	2.000	Final Extract Volume

					CONCENTRATIONS		
					ON-COLUMN	FINAL	
Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/ml)	(mg/L)	
S 1 TPH (C8-C40)	1.750-10.500			14491287	1.48463	3.0(M)	LM
$ 2 ortho-Terphenyl	4.313	4.313	0.000	449128	0.04196	0.084(M)	
$ 3 Nonatriacontane	8.766	8.726	0.040	2018965	0.32558	0.65(M)	

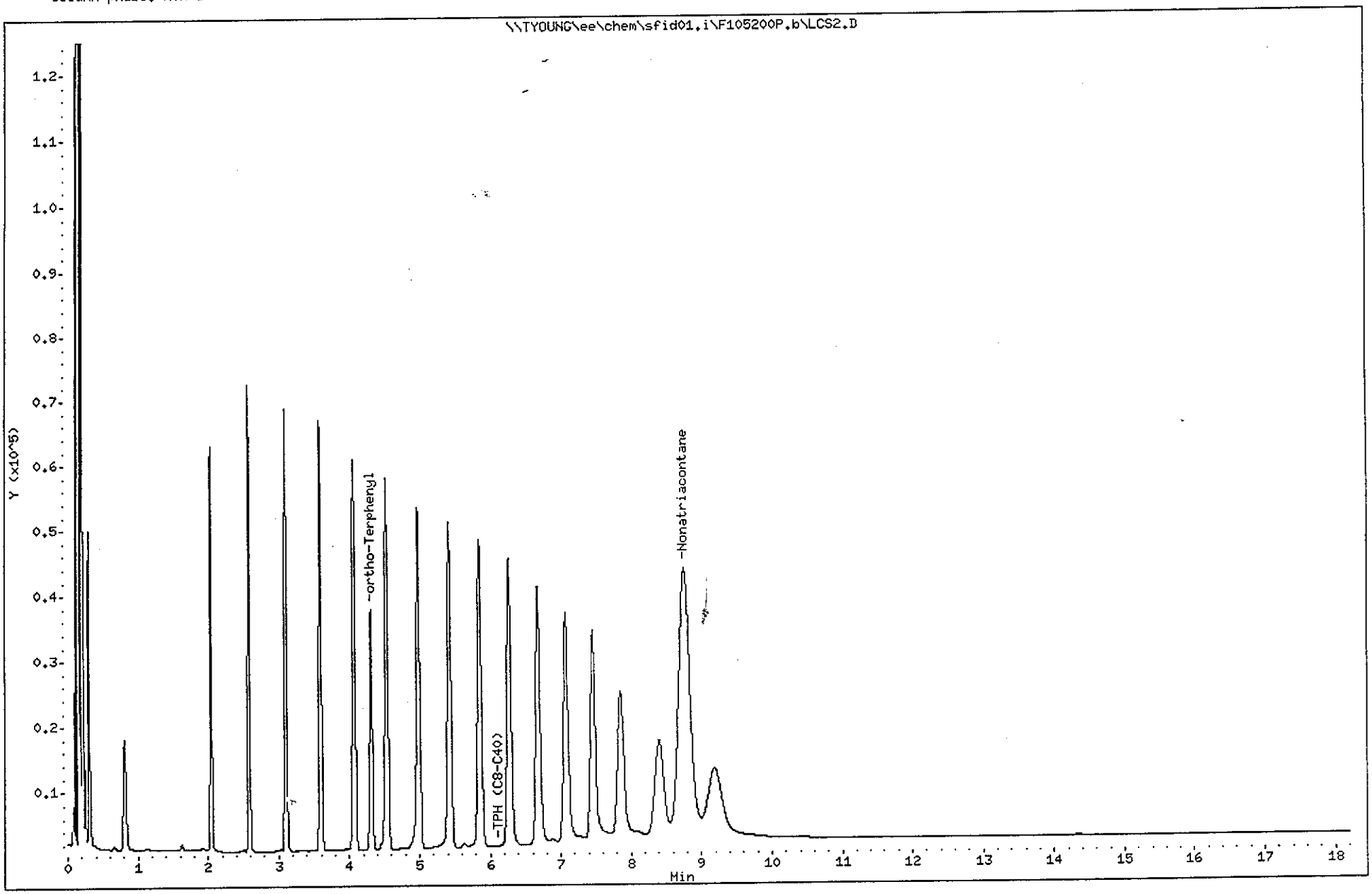
QC Flag Legend

M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid01.i\F105200P.b\LCS2.D
Date : 20-MAY-2002 21:41
Client ID: LCS2
Sample Info: 69261
Volume Injected (uL): 1000.0
Column phase: RTX-5

Instrument: sfid01.i

Operator: LM
Column diameter: 0.53



PEL Laboratories, Inc.

Data file : \\TYOUNG\ee\chem\sfid01.i\F105200P.b\BLKMS2.D
Lab Smp Id: 69262 Client Smp ID: BLK2MS
Inj Date : 20-MAY-2002 22:09
Operator : LM Inst ID: sfid01.i
Smp Info : 69262
Misc Info : Florida PRO
Comment :
Method : \\TYOUNG\ee\chem\sfid01.i\F105200P.b\FLPROW.m
Meth Date : 21-May-2002 16:41 lmchugh Quant Type: ESTD
Cal Date : 20-MAY-2002 12:41 Cal File: CAL1.D
Als bottle: 15 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: rl.sub
Target Version: 4.04
Processing Host: SVHPLC3

Concentration Formula: Amt * DF * (1/(Vi/1000)*Vf)

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1000.000	Sample Initial Volume
Vf	2.000	Final Extract Volume

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/ml)	CONCENTRATIONS FINAL (mg/L)
S	1 TPH (C8-C40)	1.750-10.500			15362748	1.58126	3.2(M)
$	2 ortho-Terphenyl	4.296	4.313	-0.017	413366	0.03861	0.077(RM)
$	3 Nonatriacontane	8.670	8.726	-0.056	1840556	0.29681	0.59(M)

LM

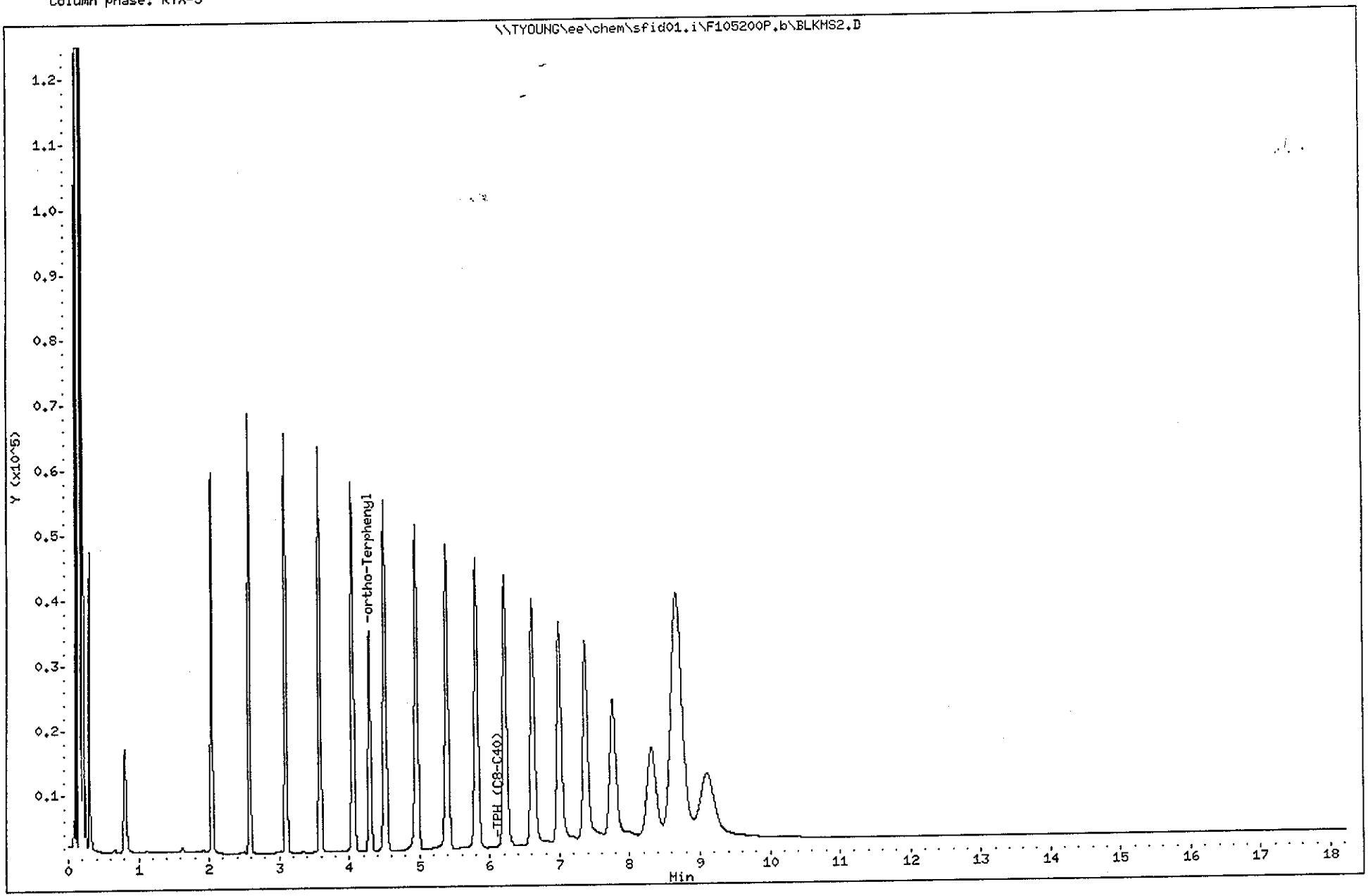
QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid01.i\F105200P.b\BLKMS2.D
Date : 20-MAY-2002 22:09
Client ID: BLK2MS
Sample Info: 69262
Volume Injected (uL): 1000.0
Column phase: RTX-5

Instrument: sfid01.i

Operator: LM
Column diameter: 0.53



PEL Laboratories, Inc.

Data file : \\TYOUNG\ee\chem\sfid01.i\F105200P.b\BLKMSD2.D
Lab Smp Id: 69263 Client Smp ID: BLK2MSD
Inj Date : 20-MAY-2002 22:37
Operator : LM Inst ID: sfid01.i
Smp Info : 69263
Misc Info : Florida PRO
Comment :
Method : \\TYOUNG\ee\chem\sfid01.i\F105200P.b\FLPROW.m
Meth Date : 21-May-2002 16:41 lmchugh Quant Type: ESTD
Cal Date : 20-MAY-2002 12:41 Cal File: CAL1.D
Als bottle: 16 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: rl.sub
Target Version: 4.04
Processing Host: SVHPLC3

Concentration Formula: Amt * DF * (1/(Vi/1000)*Vf)

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1000.000	Sample Initial Volume
Vf	2.000	Final Extract Volume

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/ml)	CONCENTRATIONS FINAL (mg/L)
S 1 TPH (C8-C40)	1.750-10.500			14324563	1.46615	2.9(M)
$ 2 ortho-Terphenyl	4.306	4.313	-0.007	450698	0.04210	0.084(M)
$ 3 Nonatriacontane	8.730	8.726	0.004	1941441	0.31308	0.63(M)

LM

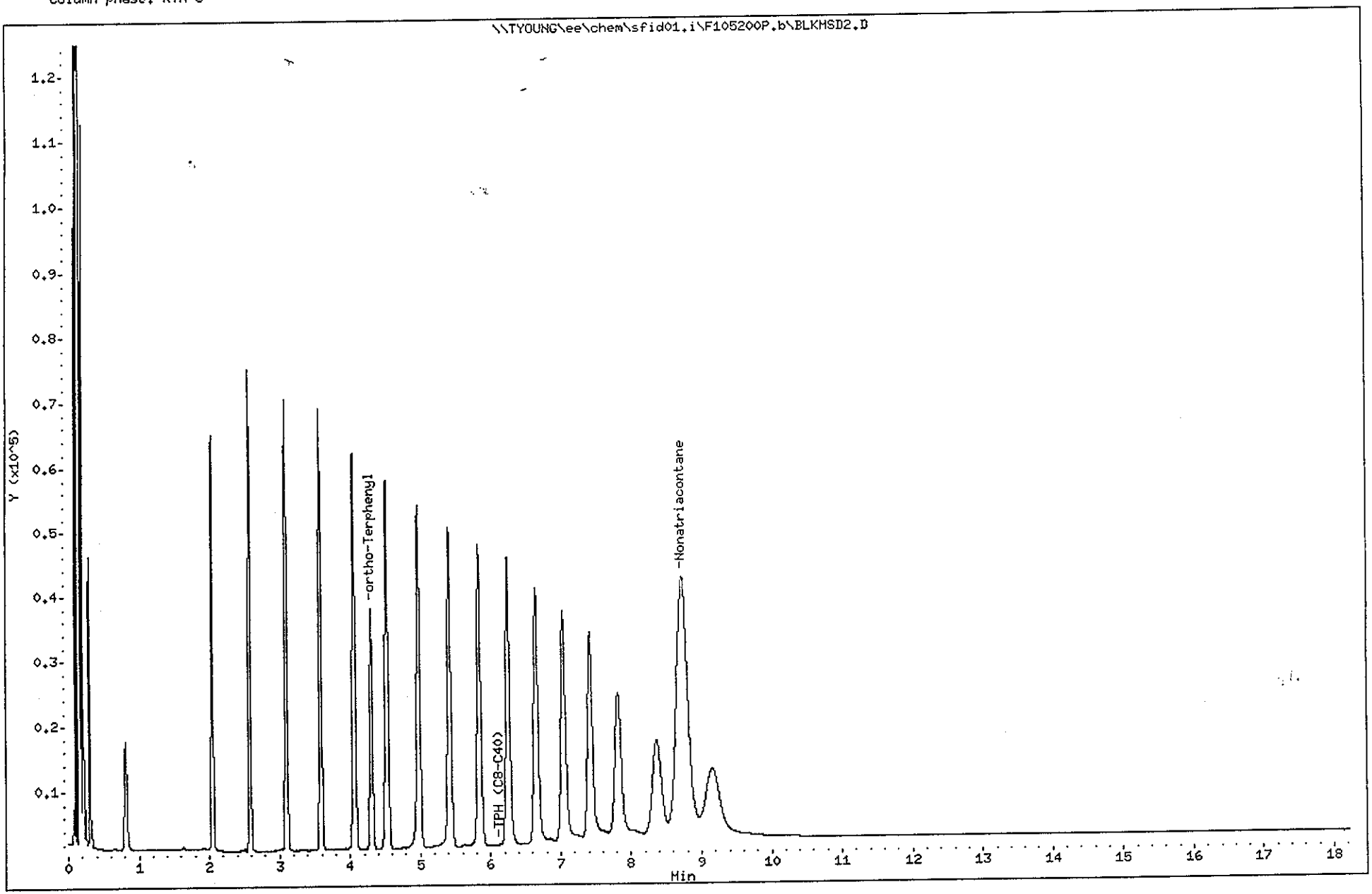
QC Flag Legend

M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid01.i\F105200P.b\BLKMSD2.D
Date : 20-MAY-2002 22:37
Client ID: BLK2MSD
Sample Info: 69263
Volume Injected (uL): 1000.0
Column phase: RTX-5

Instrument: sfid01.i

Operator: LM
Column diameter: 0.53



PEL Laboratories, Inc.

Data file : \\TYOUNG\ee\chem\sfid01.i\F105200P.b\CCV4S.D
Lab Smp Id: CCV4S
Inj Date : 21-MAY-2002 01:54
Operator : LM Inst ID: sfid01.i
Smp Info : CCV4S
Misc Info :
Comment :
Method : \\Tyoung\ee\chem\sfid01.i\F105200P.b\FLPROS.m
Meth Date : 21-May-2002 16:41 lmchugh Quant Type: ESTD
Cal Date : 20-MAY-2002 12:41 Cal File: CAL1.D
Als bottle: 99 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.04
Processing Host: SVHPLC3

Concentration Formula: Amt * DF * ((1/((Ws*((100-M)/100))/1000))*Vf)

Name	Value	Description
DF	1.000	Dilution Factor
Ws	25.000	Weight of Sample
M	0.000	% Moisture
Vf	2.000	Final extract volume

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/ml)	AMOUNTS ON-COL (mg/ml)
S	1 TPH (C8-C40)	1.750-10.500			25760697	2.55000	2.7(M)
$	2 ortho-Terphenyl	4.296	4.296	0.000	571008	0.05000	0.053(M)
$	3 Nonatriacontane	8.676	8.676	0.000	2130456	0.30000	0.34(M)

QC Flag Legend

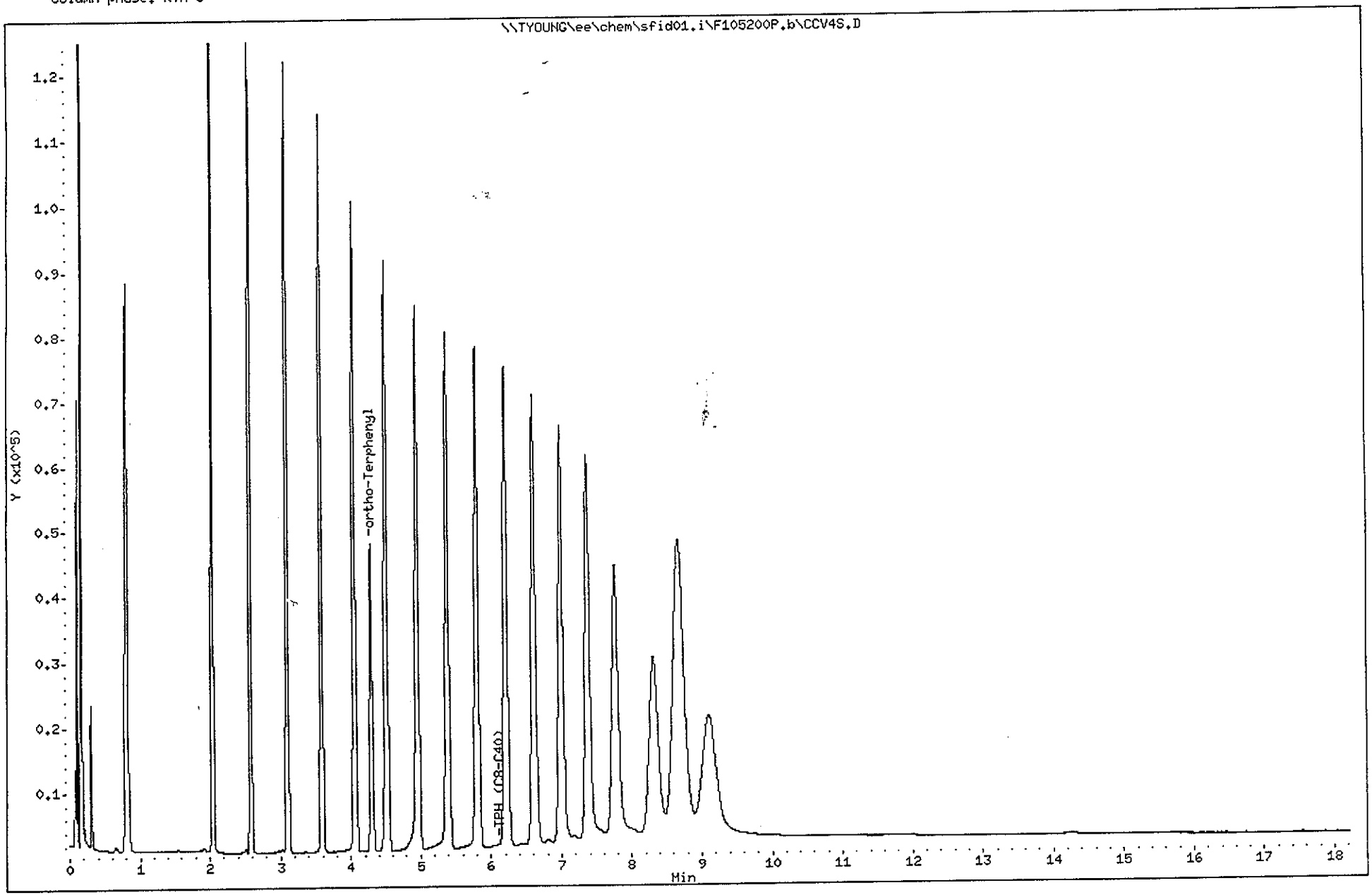
M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid01.i\F105200P.b\CCV4S.D
Date : 21-MAY-2002 01:54
Client ID:
Sample Info: CCV4S

Instrument: sfid01.i

Operator: LM
Column diameter: 0.53

Column phase: RTX-5



PEL Laboratories, Inc.

Data file : \\TYOUNG\ee\chem\sfid01.i\F105200P.b\29-2D.D
Lab Smp Id: 220402902 Client Smp ID: 062CEF432NMS
Inj Date : 21-MAY-2002 08:42
Operator : LM Inst ID: sfid01.i
Smp Info : 220402902
Misc Info : Florida PRO
Comment :
Method : \\TYOUNG\ee\chem\sfid01.i\F105200P.b\FLPROW.m
Meth Date : 21-May-2002 16:41 lmchugh Quant Type: ESTD
Cal Date : 20-MAY-2002 12:41 Cal File: CAL1.D
Als bottle: 26 QC Sample: MS
Dil Factor: 10.00000
Integrator: HP Genie Compound Sublist: rl.sub
Target Version: 4.04
Processing Host: SVHPLC3

Concentration Formula: Amt * DF * (1/(Vi/1000)*Vf)

Name	Value	Description
DF	10.000	Dilution Factor
Vi	960.000	Sample Initial Volume
Vf	2.000	Final Extract Volume

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/ml)	CONCENTRATIONS FINAL (mg/L)
S 1 TPH (C8-C40)	1.750-10.500			10572313	1.05012	21.9(RM)
$ 2 ortho-Terphenyl	4.443	4.313	0.130	32886	0.00307	0.0064(RM)
$ 3 Nonatriacontane	9.246	8.726	0.520	73136	0.01179	0.024(RM)

LM

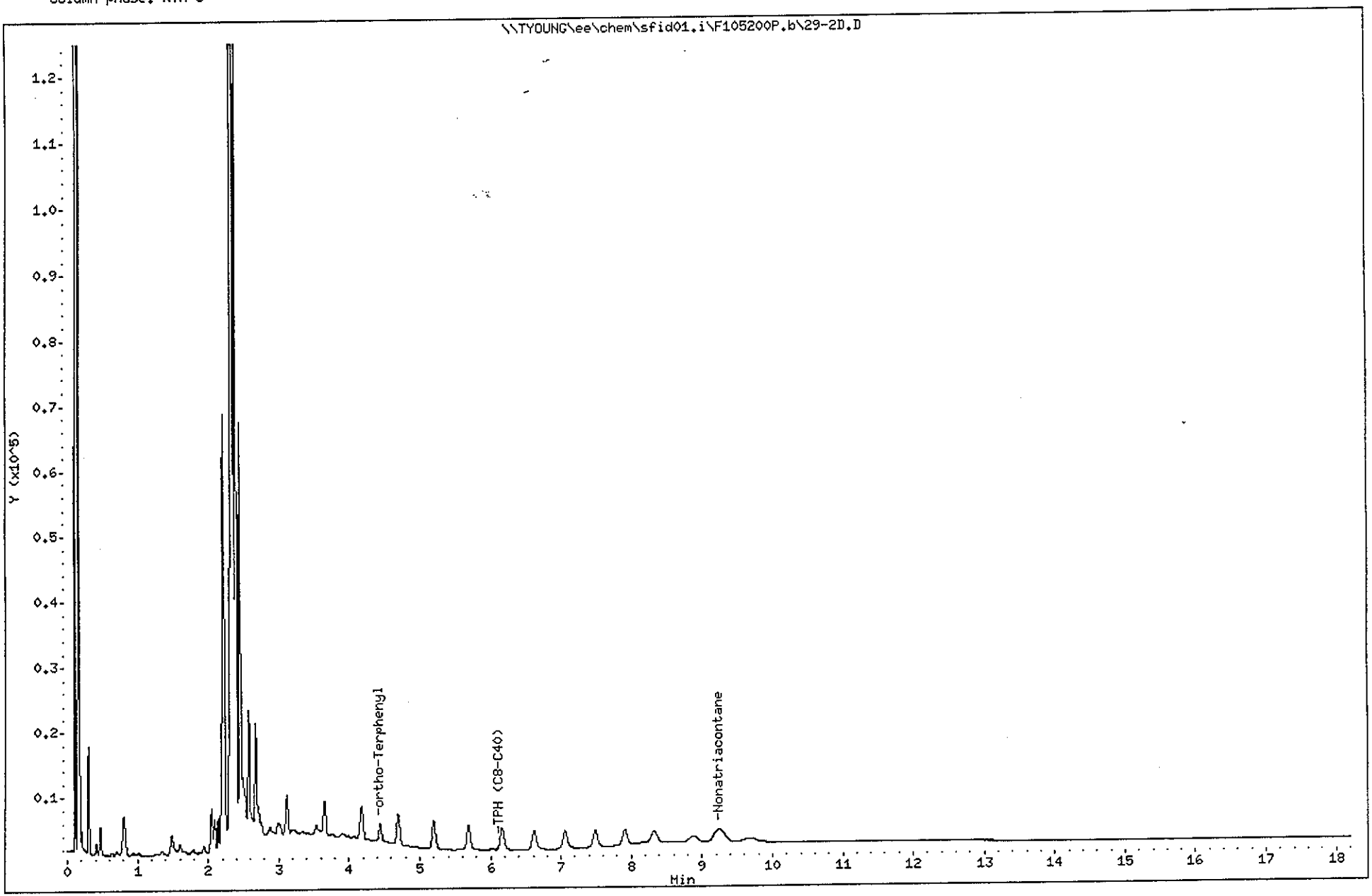
QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid01.i\F105200P.b\29-2D.D
Date : 21-MAY-2002 08:42
Client ID: 062CEF432NMS
Sample Info: 220402902
Volume Injected (uL): 960.0
Column phase: RTX-5

Instrument: sfid01.i

Operator: LM
Column diameter: 0.53



PEL Laboratories, Inc.

Data file : \\TYOUNG\ee\chem\sfid01.i\F105200P.b\29-3D.D
Lab Smp Id: 220402903 Client Smp ID: 062CEF432NMSD
Inj Date : 21-MAY-2002 09:10
Operator : LM Inst ID: sfid01.i
Smp Info : 220402903
Misc Info : Florida PRO
Comment :
Method : \\TYOUNG\ee\chem\sfid01.i\F105200P.b\FLPROW.m
Meth Date : 21-May-2002 16:41 lmchugh Quant Type: ESTD
Cal Date : 20-MAY-2002 12:41 Cal File: CAL1.D
Als bottle: 27 QC Sample: MSD
Dil Factor: 10.00000
Integrator: HP Genie Compound Sublist: rl.sub
Target Version: 4.04
Processing Host: SVHPLC3

Concentration Formula: Amt * DF * (1/(Vi/1000)*Vf)

Name	Value	Description
DF	10.000	Dilution Factor
Vi	925.000	Sample Initial Volume
Vf	2.000	Final Extract Volume

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/ml)	CONCENTRATIONS FINAL (mg/L)
S 1 TPH (C8-C40)	1.750-10.500			13002232	1.31954	28.5(RM)
$ 2 ortho-Terphenyl	4.353	4.313	0.040	44979	0.00420	0.0091(M)
$ 3 Nonatriacontane	8.920	8.726	0.194	118617	0.01913	0.041(M)

LM

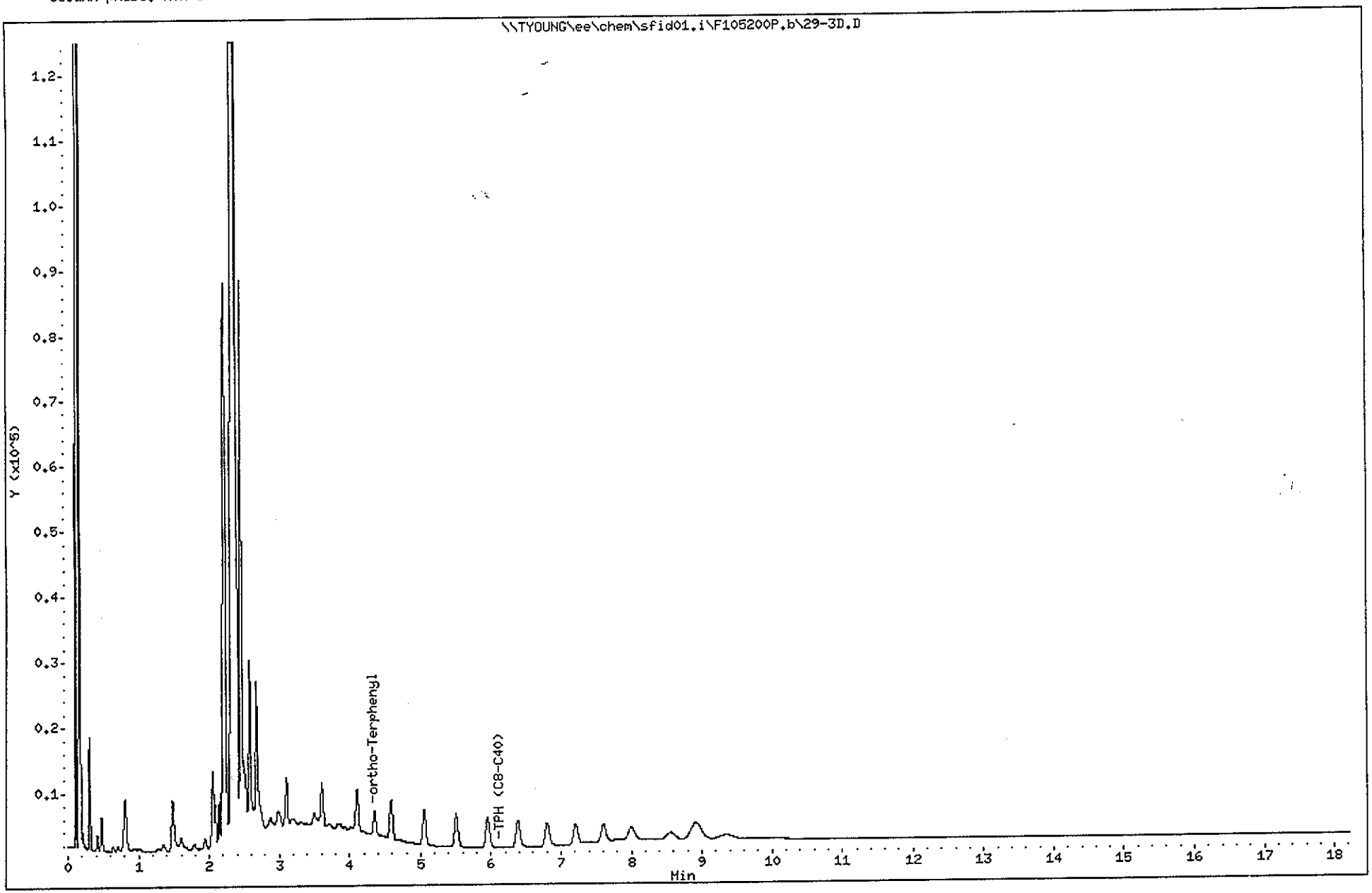
QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid01.i\F105200P.b\29-3D.D
Date : 21-MAY-2002 09:10
Client ID: 062CEF432NMSD
Sample Info: 220402903
Volume Injected (uL): 925.0
Column phase: RTX-5

Instrument: sfid01.i

Operator: LM
Column diameter: 0.53



PEL Laboratories, Inc.

Data file : \\TYOUNG\ee\chem\sfid01.i\F105200P.b\CCVS5.D
Lab Smp Id: CCV2SV
Inj Date : 21-MAY-2002 09:39
Operator : LM Inst ID: sfid01.i
Smp Info : CCV2SV
Misc Info : Florida PRO
Comment :
Method : \\TYOUNG\ee\chem\sfid01.i\F105200P.b\FLPROW.m
Meth Date : 21-May-2002 16:42 lmchugh Quant Type: ESTD
Cal Date : 20-MAY-2002 12:41 Cal File: CAL1.D
Als bottle: 99 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.04
Processing Host: SVHPLC3

Concentration Formula: Amt * DF * (1/(Vi/1000)*Vf)

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1000.000	Sample Initial Volume
Vf	2.000	Final Extract Volume

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/ml)	AMOUNTS ON-COL (mg/ml)
S	1 TPH (C8-C40)	1.750-10.500			25036182	2.55000	2.6 (M)
$	2 ortho-Terphenyl	4.336	4.336	0.000	568935	0.05000	0.053 (M)
$	3 Nonatriacontane	8.883	8.883	0.000	2062505	0.30000	0.33 (M)

LM

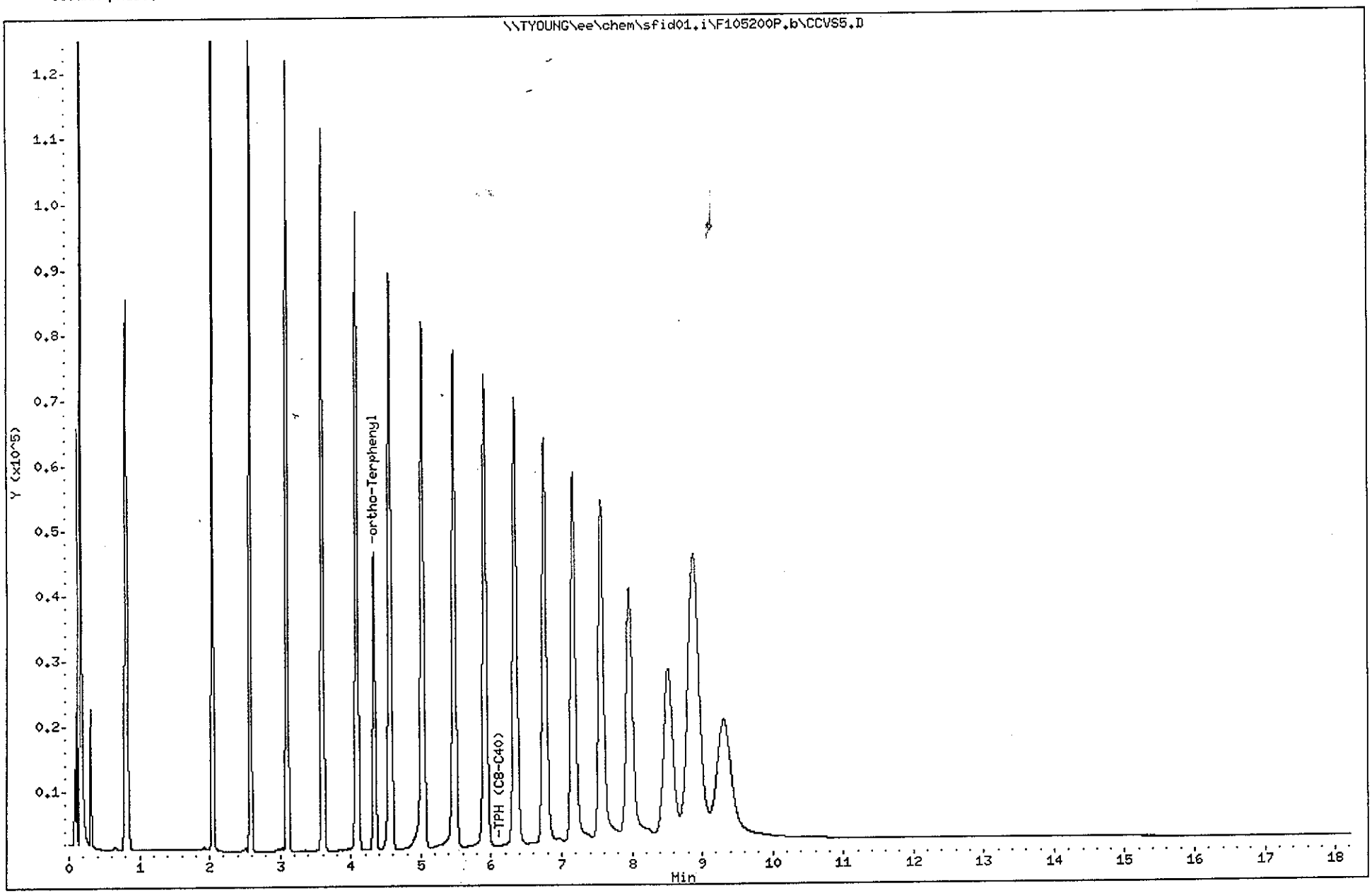
QC Flag Legend

M - Compound response manually integrated.

Data File: \\TYOUNG\ee\chem\sfid01.i\F105200P.b\CCVS5.D
Date : 21-MAY-2002 09:39
Client ID:
Sample Info: CCV2SV
Volume Injected (uL): 1000.0
Column phase: RTX-5

Instrument: sfid01.i

Operator: LM
Column diameter: 0.53



2204029
Raw Data
Inorganics

Metals Digestion Log

Prepared by: [illegible] Date Prepared: 5/10/2

Reagents: PM#
HNO_3 126
HCl 119
H_2O_2 N/A

LCS/MS/SD Spike: MET# 15502

LCS/MS/SD Spike amount: 1.0 mL

~~CAL~~ Spike: MET# 18802

Methods: (Circle one) 051002B

Water: 3010A = ICP; 3020 = Furnace; 3005A = Total Recoverable; 200.7 = 200.7; ILMO4.0 = CLP

Soil: 3050B = ICP or Furnace; ILMO4.0 = CLP

	Tube#	Sample ID	ID	Initial Weight (g) or Volume (mL)	Final volume (mL)	Spike Verification	Comment or Notification:	BATCH#: 3280
		BLKW051002B	BLK	50 mL	50 mL			HSN# 68997
		LCSW051002B	LCS					HSN# 98
1	2204	029 01					AFCEE, Pb.	
1		02	MS					HSN#
1		03	SD					HSN#
2		04						
3		05						
4		06						
5		07						
6		08						
7		09						
8		10						
9	2204	030 05					RCRA LVL T.	
10		06						
11		07						
12		08					AN Batch # 2428	
13		09						
14								
15								
16								
17								
18		QK-S W 2						
19								
20								

STANDARD LOT	ID	MFG LOT	MANUFACTURER	EXPIRATION DATE	FINAL VOLUME	CREATED/RECEIVED	BY
MET-23101	6010_Std2			5/3/2003 7:25:00 AM	1000 mL	5/3/2002 8:25:35 AM	JTRA

100000 ug/L: Iron
250000 ug/L: Aluminum, Magnesium, Potassium, Sodium, Calcium

DISCARDED:_____

COMPOSED OF:

6010_K@10K MET-18906: 25 mL 6010_MAJICSA MET-21611: 50 mL 6010_Na@10K MET-20005: 25 mL HCL_36.5-38 MET-18902: 50 mL HNO3_69-70 MET-18903: 60 mL

STANDARD LOT	ID	MFG LOT	MANUFACTURER	EXPIRATION DATE	FINAL VOLUME	CREATED/RECEIVED	BY
MET-23102	6010_Std3			5/3/2003 7:26:00 AM	1000 mL	5/3/2002 8:26:13 AM	JTRA

1000 ug/L: Lead, Manganese, Molybdenum, Nickel, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Vanadium, Zinc, Selenium

DISCARDED:_____

COMPOSED OF:

6010_901-6P7 MET-19407: 40 mL 6010_Na@10K MET-19406: 100 uL 6010_SN@1K MET-21604: 1 mL 6010_SR@1K MET-19202: 1 mL 6010_Ti@1K MET-19201: 1 mL HCL_36.5-38 MET-18902: 50 mL HNO3_69-70 MET-18903: 60 mL

STANDARD LOT	ID	MFG LOT	MANUFACTURER	EXPIRATION DATE	FINAL VOLUME	CREATED/RECEIVED	BY
MET-23103	6010_ICSA			5/3/2003 7:27:00 AM	1000 mL	5/3/2002 8:27:12 AM	JTRA

225000 ug/L: Iron
250000 ug/L: Aluminum, Magnesium, Calcium

DISCARDED:_____

COMPOSED OF:

6010_FE@10K MET-17604: 12.5 mL 6010_MAJICSA MET-18905: 50 mL HCL_36.5-38 MET-10002: 50 mL HNO3_69-70 MET-10003: 60 mL

STANDARD LOT	ID	MFG LOT	MANUFACTURER	EXPIRATION DATE	FINAL VOLUME	CREATED/RECEIVED	BY
MET-23601	6010_ICVWRK			5/15/2003 12:55:52 PM	500 mL	5/15/2002 7:55:00 AM	RHOL

400 ug/L: Lead, Manganese, Molybdenum, Nickel, Silver, Strontium, Thallium, Tin, Titanium, Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Vanadium, Zinc, Selenium
40000 ug/L: Aluminum, Iron, Magnesium, Potassium, Sodium, Calcium

DISCARDED:_____

COMPOSED OF:

6010_MAJMSIC MET-18802: 8 mL 6010_MINICSA MET-15502: 8 mL 6010_SR@1K MET-18402: 0.2 mL 6010_Ti@1K MET-18401: 0.2 mL

STANDARD LOT	ID	MFG LOT	MANUFACTURER	EXPIRATION DATE	FINAL VOLUME	CREATED/RECEIVED	BY
MET-22607	6010_ICSABC			4/12/2003 12:49:35 PM	1000 mL	4/12/2002 12:49:35 PM	GKAS

100 ug/L: Thallium, Arsenic
1000 ug/L: Nickel, Cadmium, Zinc
200 ug/L: Silver
225000 ug/L: Iron
250000 ug/L: Aluminum, Magnesium, Calcium
50 ug/L: Lead, Selenium
500 ug/L: Manganese, Molybdenum, Strontium, Tin, Titanium, Barium, Beryllium, Chromium, Cobalt, Copper, Vanadium
600 ug/L: Antimony

DISCARDED:_____

COMPOSED OF:

6010_CLPICSA 40-6804: 10 mL 6010_FE@10K MET-17604: 12.5 mL 6010_MAJICSA MET-18905: 50 mL 6010_MO@1K 075-8402: 0.5 mL 6010_SN@1K 78-5802: 0.5 mL 6010_SR@1K MET-19202: 0.5 mL 6010_Ti@1K MET-19201: 0.5 mL HCL_36.5-38 MET-10002: 50 mL HNO3_69-70 MET-10003: 60 mL

STANDARD LOT	ID	MFG LOT	MANUFACTURER	EXPIRATION DATE	FINAL VOLUME	CREATED/RECEIVED	BY
MET-23301	6010_CCVWRK			5/3/2003 7:25:00 AM	200 mL	5/7/2002 11:10:53 AM	JTRA

125000 ug/L: Aluminum, Magnesium, Potassium, Calcium
125500 ug/L: Sodium
500 ug/L: Lead, Manganese, Molybdenum, Nickel, Silver, Strontium, Thallium, Tin, Titanium, Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Vanadium, Zinc, Selenium
50000 ug/L: Iron

DISCARDED:_____

COMPOSED OF:

6010_Std2 MET-23101: 100 mL 6010_Std3 MET-23102: 100 mL

STANDARD LOT	ID	MFG LOT	MANUFACTURER	EXPIRATION DATE	FINAL VOLUME	CREATED/RECEIVED	BY
MET-22602	6010_PDSWRK			3/28/2002 11:03:00 AM	50 mL	4/9/2002 1:35:00 PM	JRE

12500 ug/L: Lead, Manganese, Molybdenum, Nickel, Silver, Thallium, Tin, Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Vanadium, Zinc, Selenium
1250000 ug/L: Aluminum, Iron, Magnesium, Potassium, Sodium, Calcium

DISCARDED:_____

COMPOSED OF:

6010_MAJMSIC MET-18802: 25 mL 6010_MINICSA MET-15502: 25 mL

STANDARD LOT	ID	MFG LOT	MANUFACTURER	EXPIRATION DATE	FINAL VOLUME	CREATED/RECEIVED	BY
MET-18802	6010_MAJMSIC	1LM135	CPI	5/28/2002 11:03:00 AM		1/2/2002 11:03:27 AM	JRE

2500 mg/L: Aluminum, Iron, Magnesium, Potassium, Sodium, Calcium

DISCARDED:_____

STANDARD LOT	ID	MFG LOT	MANUFACTURER	EXPIRATION DATE	FINAL VOLUME	CREATED/RECEIVED	BY
MET-15502	6010_MINICSA		CPI	8/17/2002 3:38:33 PM	500	8/17/2001 3:38:25 PM	MME

25 mg/L: Lead, Manganese, Molybdenum, Nickel, Silver, Thallium, Tin, Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Vanadium, Zinc, Selenium

DISCARDED:_____

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	STD1-Blank	51502B	SM032002	05/15/02	17:03		X	IR
2	STD3	51502B	SM032002	05/15/02	17:08		X	IR
3	STD2	51502B	SM032002	05/15/02	17:13		X	IR
4	ICV	51502B	SM032002	05/15/02	17:18		Q	CONC
5	ICB	51502B	SM032002	05/15/02	17:23		B	CONC
6	CRI	51502B	SM032002	05/15/02	17:29		Q	CONC
7	ICSA	51502B	SM032002	05/15/02	17:34		Q	CONC
8	ICSAB	51502B	SM032002	05/15/02	17:40		Q	CONC
9	CCV	51502B	SM032002	05/15/02	17:45		S	CONC
10	CCB	51502B	SM032002	05/15/02	17:50		S	CONC
11	BLKW051002B	51502B	SM032002	05/15/02	17:56		S	CONC
12	LCSW051002B	51502B	SM032002	05/15/02	18:01		S	CONC
13	220402901	51502B	SM032002	05/15/02	18:07		S	CONC
14	220402901A	51502B	SM032002	05/15/02	18:12		S	CONC
15	220402902MS	51502B	SM032002	05/15/02	18:18		S	CONC
16	220402903SD	51502B	SM032002	05/15/02	18:23		S	CONC
17	220402901L	51502B	SM032002	05/15/02	18:28		S	CONC
18	220402904	51502B	SM032002	05/15/02	18:34		S	CONC
19	220402905	51502B	SM032002	05/15/02	18:39		S	CONC
20	220402906	51502B	SM032002	05/15/02	18:45		S	CONC
21	CCV	51502B	SM032002	05/15/02	18:50		S	CONC
22	CCB	51502B	SM032002	05/15/02	18:56		S	CONC
23	220402907	51502B	SM032002	05/15/02	19:01		S	CONC
24	220402908	51502B	SM032002	05/15/02	19:06		S	CONC
25	220402909	51502B	SM032002	05/15/02	19:12		S	CONC
26	220402910	51502B	SM032002	05/15/02	19:17		S	CONC
27	220403005	51502B	SM032002	05/15/02	19:23		S	CONC
28	220403005L	51502B	SM032002	05/15/02	19:28		S	CONC
29	220403006	51502B	SM032002	05/15/02	19:33		S	CONC
30	220403007	51502B	SM032002	05/15/02	19:39		S	CONC
31	220403008	51502B	SM032002	05/15/02	19:44		S	CONC
32	220403009	51502B	SM032002	05/15/02	19:50		S	CONC
33	CCV	51502B	SM032002	05/15/02	19:55		S	CONC
34	CCB	51502B	SM032002	05/15/02	20:01		S	CONC

#	Sample Name	Ag3280	Al3082	As1890	Ba4934	Be3130	Ca3158
1	STD1-Blank	-.01031	.00199	-.01214	.00392	-.17171	.00024
2	STD3	2.74738		2.53994	30.0052	43.1652	
3	STD2		1.67494				5.28521
4	ICV	394.0	38200.	379.1	394.7	393.6	41510.
5	ICB	.1014	36.13	.3644	.1968	.2410	40.61
6	CRI	Q.6296	84.59	Q2.903	.9981	1.197	112.6
7	ICSA	.2305	236400.	.1353	-.5742	.0061	244800.
8	ICSAB	205.3	242700.	94.11	499.0	483.7	249900.
9	CCV	507.6	125400.	510.2	500.3	494.3	130100.
10	CCB	.3859	67.22	.2569	.3143	.3272	96.87
11	BLKW051002B	.0586	15.39	-.1094	.0848	.1380	50.36
12	LCSW051002B	503.0	49450.	482.0	504.1	497.7	52610.
13	220402901	.0898	421.2	.5808	4.759	.2590	35150.
14	220402901A	500.7	49690.	468.5	508.4	494.0	H84380.
15	220402902MS	509.1	50740.	489.3	516.5	501.6	H87460.
16	220402903SD	508.2	50540.	486.4	518.8	498.5	H86580.
17	220402901L	.0694	106.1	1.378	1.141	.1528	7028.
18	220402904	-.1649	547.6	-.1490	8.350	.0583	15590.
19	220402905	-.3488	2042.	-.6713	2.545	.1072	18750.
20	220402906	-.0697	21380.	.5566	14.63	.0492	30920.
21	CCV	505.0	124800.	511.6	498.9	494.1	130700.
22	CCB	.3555	56.73	-.7038	.2147	.1113	59.07
23	220402907	.1328	440.3	-.5181	51.43	.1288	22010.
24	220402908	-.1744	3772.	-.6375	9.954	.1361	18870.
25	220402909	.0940	598.8	.8901	8.407	-.2216	16150.
26	220402910	.2871	15.27	-.7876	.0967	-.3485	31.86
27	220403005	.1745	17860.	3.284	55.44	1.060	124700.
28	220403005L	-.1018	3497.	-.1816	11.27	.1981	26350.
29	220403006	.2971	10240.	.4940	85.57	.1569	147000.
30	220403007	-.6747	184100.	3.491	270.9	3.929	57260.
31	220403008	.0580	2013.	-1.125	45.52	.1888	112800.
32	220403009	.3167	107.0	2.737	187.9	-.1550	216000.
33	CCV	502.9	123900.	511.9	496.2	494.2	131400.
34	CCB	.4963	66.01	-1.158	.2642	-.1015	93.22

#	Sample Name	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
1	STD1-Blank	.00213	-.00366	.00334	.01934	-.00087	-.04029
2	STD3	14.2982	3.16742	3.3852	3.53194		
3	STD2					9.51771	27.3777
4	ICV	387.0	383.3	380.3	386.6	41530.	39290.
5	ICB	.1414	.0385	.0944	.3719	30.13	29.55
6	CRI	1.019	4.486	2.198	4.773	59.45	106.4
7	ICSA	-.4208	.2153	-2.693	-.1212	220200.	-22.80
8	ICSAB	939.6	477.3	460.6	507.0	225500.	-27.20
9	CCV	475.9	483.4	476.1	504.7	51330.	125700.
10	CCB	.2839	.4616	.2581	.6306	H52.64	61.60
11	BLKW051002B	-.0867	-.0424	-.4214	.2637	7.087	4.008
12	LCSW051002B	486.4	486.3	480.3	496.0	52710.	50810.
13	220402901	.0198	.0661	1.065	.9447	235.6	2048.
14	220402901A	480.5	482.9	477.9	498.9	52160.	53040.
15	220402902MS	489.8	490.4	485.4	505.4	53210.	53970.

#	Sample Name	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
16	220402903SD	488.8	487.9	483.2	505.7	52920.	53950.
17	220402901L	.0990	.2625	.2569	-.0732	67.94	422.4
18	220402904	-.1196	-.2428	1.165	.4871	164.2	1395.
19	220402905	-.0742	.0515	2.672	.9680	266.4	1298.
20	220402906	-.2621	.6957	19.11	7.665	3596.	2638.
21	CCV	479.9	484.6	476.4	498.9	51580.	124400.
22	CCB	.0391	-.1389	.0551	-.2700	24.12	49.78
23	220402907	-.0290	.0153	1.247	.2069	286.4	1906.
24	220402908	-.0772	-.0926	3.201	.8359	481.9	1164.
25	220402909	.0092	.1520	1.599	.6495	177.4	1405.
26	220402910	-.0109	-.1539	-.0755	.3410	5.958	-34.30
27	220403005	.2461	2.122	47.63	6.280	5248.	12460.
28	220403005L	-.0658	.4416	10.07	2.505	1099.	2227.
29	220403006	.0143	2.291	26.56	5.490	2822.	8119.
30	220403007	-.5682	14.72	331.1	7.043	36060.	7380.
31	220403008	-.1506	.0834	7.189	2.671	765.0	4202.
32	220403009	-.0610	.1089	.8730	13.41	85.95	4219.
33	CCV	478.8	484.3	475.9	495.5	51480.	123400.
34	CCB	.1836	.1967	-.0797	-.0820	23.51	60.08

#	Sample Name	Mg2790	Mn2576	Mo2020	Na_	Ni2316	2203-1
1	STD1-Blank	-.00014	.00046	.00163	.00087	-.00384	.01209
2	STD3		1.81993	1.21501	6.65766	3.84912	4.1385
3	STD2	64.2493			3.55653		
4	ICV	39110.	384.2	395.8	37590.	382.4	388.1
5	ICB	38.23	.2064	.5810	68.67	-.1028	.9381
6	CRI	101.9	2.087	Q3.351	Q247.9	4.420	5.306
7	ICSA	246600.	2.234	.3464	30.64	-2.129	12.03
8	ICSAB	252700.	476.3	493.4	24.31	923.8	60.47
9	CCV	126000.	478.2	500.6	125400.	474.6	486.6
10	CCB	76.16	.3459	.8419	114.0	.4815	-1.247
11	BLKW051002B	15.27	.0578	.2612	24.24	-.1966	-.0498
12	LCSW051002B	49930.	486.3	502.9	48940.	485.0	489.3
13	220402901	617.6	2.554	1.282	2425.	.3712	4.389
14	220402901A	49930.	484.8	500.5	51080.	481.1	489.0
15	220402902MS	51000.	492.4	509.2	52000.	488.8	496.0
16	220402903SD	50680.	490.2	507.6	51950.	485.3	493.7
17	220402901L	144.6	.6320	.8646	508.9	-.3007	1.441
18	220402904	1940.	15.19	.1490	4696.	-.4147	21.57
19	220402905	574.0	4.384	1.134	2147.	.1639	3.932
20	220402906	1049.	6.402	1.369	2912.	3.964	10.71
21	CCV	126100.	478.3	500.5	124800.	475.8	486.0
22	CCB	51.62	.1956	.4446	80.23	-.0354	-.4262
23	220402907	817.8	5.546	.3410	2652.	-.2233	-1.314
24	220402908	417.1	1.086	.9905	1739.	.5605	2.557
25	220402909	1980.	15.28	1.016	4712.	-.3705	19.16
26	220402910	.8955	-.0003	.2323	2511.	-.3842	-1.556
27	220403005	7083.	11.89	10.12	23760.	11.15	7.962
28	220403005L	1466.	2.413	2.278	4992.	1.868	3.390
29	220403006	6074.	5.920	1.492	18040.	6.596	3.050
30	220403007	13630.	55.52	4.348	11150.	74.38	65.06
31	220403008	6541.	5.401	.5659	15410.	1.191	.6657

#	Sample Name	Mg2790	Mn2576	Mo2020	Na_	Ni2316	2203-1
32	220403009	8332.	68.29	33.12	27080.	4.107	3.638
33	CCV	125800.	477.8	499.0	124200.	475.0	486.5
34	CCB	56.86	.2914	.3061	107.2	-.0913	-1.258

#	Sample Name	2203-2	Pb2203	Se1960	Sb2068	2068-1	2068-2
1	STD1-Blank	-.00073	.00024	.00024	.00024	-.00212	.00074
2	STD3	6.0007				5.29652	4.25947
3	STD2						
4	ICV	388.5	388.2	398.9	390.5	390.5	390.7
5	ICB	-.2795	.5329	.1642	.0177	-1.077	2.210
6	CRI	2.749	Q4.455	Q.5475	5.455	4.925	6.515
7	ICSA	-10.13	4.648	-.1898	.8221	1.674	-.8845
8	ICSAB	37.48	52.81	51.88	593.7	594.8	591.6
9	CCV	492.9	488.7	515.9	511.5	511.1	512.5
10	CCB	.4882	-.6689	-1.778	-.0380	-.0119	-.0911
11	BLKW051002B	.6518	.1841	-.5465	-.3585	-.6342	.1929
12	LCSW051002B	492.9	490.5	506.8	495.2	494.3	497.1
13	220402901	3.312	4.031	.2664	.5422	.0194	1.589
14	220402901A	492.6	490.2	505.1	490.0	489.9	490.1
15	220402902MS	500.8	497.6	484.0	501.8	501.8	502.0
16	220402903SD	499.2	495.5	481.7	501.8	502.9	499.6
17	220402901L	.6384	1.174	-.8310	.2593	-.6500	2.080
18	220402904	16.86	20.00	3.959	-.4662	-1.859	2.323
19	220402905	4.801	4.221	.1637	-.0425	-.4222	.7173
20	220402906	10.23	10.55	-.5805	.5917	.1642	1.447
21	CCV	497.2	489.8	518.8	510.6	512.4	507.0
22	CCB	1.015	.0538	-2.039	1.901	2.110	1.480
23	220402907	1.554	-.3587	-.6455	.6355	.7577	.3899
24	220402908	2.483	2.533	.1768	.9239	.4437	1.885
25	220402909	18.35	18.89	3.623	.6117	-.0245	1.885
26	220402910	1.375	-.5797	-2.918	1.129	1.446	.4948
27	220403005	8.940	8.288	1.799	2.943	2.709	3.411
28	220403005L	.6334	2.472	.5656	.2175	-1.227	3.111
29	220403006	5.491	3.863	-.2342	-.0416	-.7273	1.331
30	220403007	71.81	67.31	.4057	.1210	.6921	-1.024
31	220403008	.7162	.6828	-.1734	.1805	-.3883	1.319
32	220403009	2.983	3.420	.4347	5.666	5.010	6.980
33	CCV	495.8	489.6	517.0	506.8	507.3	505.7
34	CCB	.4750	-.6808	-2.684	.5648	.3647	.9647

#	Sample Name	1960-1	1960-2	Sn1899	Tl1908	V_2924	Zn2138
1	STD1-Blank	-.01516	.01836	.00062	-.00951	.00008	.00348
2	STD3	1.19851	1.95609	.78152	.8662	.62563	2.28235
3	STD2						
4	ICV	399.1	398.5	394.2	403.9	391.9	402.5
5	ICB	.0139	.4646	1.053	1.954	.2327	.4351
6	CRI	-3.456	8.565	5.164	Q3.642	2.088	9.903
7	ICSA	-.5636	.5581	-1.192	.0927	.0920	-1.926
8	ICSAB	50.18	55.29	496.4	100.7	486.7	1010.
9	CCV	517.6	512.6	500.5	503.3	485.2	519.5

#	Sample Name	1960-1	1960-2	Sn1899	Tl1908	V_2924	Zn2138
10	CCB	-3.135	.9393	-.2702	2.265	.3790	1.386
11	BLKW051002B	-.3989	-.8430	.4740	.6780	.0589	-.4106
12	LCSW051002B	507.3	505.8	507.4	510.9	497.5	511.4
13	220402901	-1.203	3.209	.8903	2.013	2.091	2.575
14	220402901A	505.0	505.1	504.3	513.3	496.8	510.2
15	220402902MS	485.0	481.9	513.9	513.7	504.8	520.1
16	220402903SD	481.4	482.3	507.9	515.9	503.9	521.7
17	220402901L	-1.207	-.0795	1.183	.9226	.5987	.1326
18	220402904	3.322	5.232	-1.609	-.4718	5.168	2.134
19	220402905	-.6960	1.885	.1683	.2551	8.278	3.032
20	220402906	-2.164	2.591	-.2560	-.3232	18.49	27.35
21	CCV	519.1	518.1	505.5	502.0	485.4	520.1
22	CCB	-4.191	2.272	-1.391	2.708	.2867	-.7175
23	220402907	-1.851	1.769	-1.249	-.2706	3.448	2.556
24	220402908	-1.776	4.088	1.242	-1.933	6.144	2.117
25	220402909	2.157	6.560	1.382	-1.189	5.453	.7959
26	220402910	-5.296	1.845	-.0190	.5822	.1702	.0053
27	220403005	.2512	4.899	1.015	-.2763	259.5	22.47
28	220403005L	1.239	-.7835	1.589	-.3332	54.14	4.011
29	220403006	-1.049	1.398	.9495	-.4189	60.20	9.638
30	220403007	-1.195	3.612	1.561	-1.730	260.6	63.76
31	220403008	.3101	-1.143	-.8667	-.6368	20.96	14.34
32	220403009	-1.436	4.181	2.298	-2.298	7.199	56.52
33	CCV	516.8	517.4	506.1	503.0	484.2	517.3
34	CCB	-4.010	-.0289	1.112	3.216	.1714	.1177