Groundwater Monitoring Summary Report
September 2005 (Third Quarter)
American Chemical Service, Inc.
National Priorities List Site
Griffith, Indiana

VOLUME II OF II
(APPENDIX C [RESIDENTIAL WELLS] THRU APPENDIX D)

PREPARED FOR:

ACS RD/RA EXECUTIVE COMMITTEE

PREPARED BY:

MWH AMERICAS, INC.
175 W. JACKSON BLVD., SUITE 1900
CHICAGO, ILLINOIS 60604

JANUARY 2006

MWH

EPA Region 5 Records Ctr.
258668

CompuChem
a division of Liberty Analytical Corp.

11-Oct-05

14146A

AMY CLORE
MONTGOMERY WATSON HARZA
175 WEST JACKSON BOULEVARD
SUITE 1900
Chicago, IL 606042814

Subject:
Report of Data-Project: ACS/NPL SITE Workorder: 7829

Attn.: AMY CLORE

Enclosed are the results of analytical work performed in accordance with the referenced account number.

This report covers sample(s) appearing on the attached listing.

Thank you for selecting CompuChem for your sample analysis. If you should have questions or require additional analytical services, please contact your representative at 1-800-833-5097.

Sincerely,

CompuChem
A Division of Liberty Analytical

Attachment

TOTAL NUMBER
OF PAGES 31

501 Madison Avenue, Cary, NC 27513 Tel: 919-379-4100 Fax: 919-379-4050

Laboratory Notice

Calibration Date(s): 27-SEP-2005 18:12 27-SEP-2005 20:02

Instrument ID: 5973hp61

An initial calibration was analyzed by Method 8260B. Per the methodology, all compounds are to meet a Percent Relative Standard Deviation (%RSD) limit of no more than 15%. Additional calibration options are provided in the method when the RSD exceeds 15%. CompuChem has chosen to apply the option of determining the mean RSD values for all analytes in the initial calibration.

When there are analytes with %RSDs greater than the limit, proof of calibration linearity can be shown if the average of all compounds in the initial calibration meet the same 15% limit. Based on Method 8260B, Sec. 7.3.8.2, and Method 8000B, Sec. 7.5.1.2 requirements, we are providing a list of the compounds which failed to meet the limit, and their associated %RSDs. Finally, the average of all %RSDs from all compounds in the initial calibration is shown, confirming the usability of the initial calibration and any data that follows it.

Compound Name	RSD
Bromomethane	24.8
Iodomethane	20.7
3-Chloropropene	32.6
Acetonitrile	21.0
2,2-Dichloropropane	19.8
1,4-dioxane	15.8
2-chloroethyl vinyl ether	74.7
n-Butyl Benzene	19.9
1,2-Dibromo-3-Chloropropane	18.9
1,2,4-Trichlorobenzene	45.2
Hexachlorobutadiene	35.6
Naphthalene	40.8
1,2,3-Trichlorobenzene	55.9
Bromofluorobenzene	15.4

Average %RSD for all compounds in the Initial Calibration: 10.9 %

Data Reviewer/ID: _____ / 2537

Date: 9-28-05

CompuChem, a division of Liberty Analytical

Hsn	Client ID	Wordorder	Matrix	Account	Project	Report
782901	ACSGWPWA26	7829	W	MWH	ACS/NPL SITE	
782902	ACSGWPWDUP26	7829	W	MWH	ACS/NPL SITE	
782903	ACSGWPWB26	7829	W	MWH	ACS/NPL SITE	
782904	ACSGWPWT26	7829	W	MWH	ACS/NPL SITE	
782905	ACSGWPWC26	7829	W	MWH	ACS/NPL SITE	
782906	ACSGWPWTB26	7829	W	MWH	ACS/NPL SITE	10/4/2005
782907	ACSGWPWD26	7829	W	MWH	ACS/NPL SITE	

The sample data summary package shall contain data for all samples in one Sample Delivery Group (SDG) of the Case, as follows:

A. SDG Narrative

B. Tabulated target compound results (Form I)
Tentatively identified compounds (Form I, TIC)
In order by sample.

C. Surrogate spike analysis results (Form II)
By matrix (Water or Soil), and
by concentration (Low, Medium, or High)

D. Spike results MS / MSD / LCS (Form III)

E. Blank data (Form IV)
Tabulated blank results (Form I)
Tentatively identified compounds (Form I, TIC)

F. Internal standard area response and retention time data (Form VIII)

LAB CODE : LIBRTY	METHOD: 8260B
CASE # : _____	SDG # : 7829

A. SDG Narrative

CompuChem

a division of Liberty Analytical Corporation
501 Madison Avenue
Cary, N.C. 27513
Tel: 919/379-4100 Fax: 919/379-4050

SDG NARRATIVE

SDG # 7829
PROTOCOL: SW-846

SAMPLE IDENTIFICATIONS: ACSGWPWA26, ACSGWPWDUP26, ACSGWPWB26, ACSGWPWT26, ACSGWPWC26, ACSGWPWTB26, and ACSGWPWD26

The seven water samples listed above were received intact, properly refrigerated at 2.0-5.7°C, with proper documentation, in sealed shipping containers, on September 26 and 27, 2005. The samples were scheduled for the requested analysis of the volatile fraction. SW-846, 3rd Edition, Update 3, Method 8260B was used to analyze these samples, with the exceptions and/or additions requested by the client. All pertinent Quality Assurance Notices are included in the narrative section and all pertinent Laboratory Notices for this SDG are included in the sample data section. This narrative pertains to the volatile fraction only.

VOLATILES:

Analysis holding time requirements were met for all of these samples. The pH values have been tabulated on the run log copies in the standards portion of the report. One or more volatile Target Compound List (TCL) analytes were identified above the Contract Required Quantitation Limit (CRQL) in samples ACSGWPWB26 and ACSGWPWTB26. One Tentatively Identified Compound (TIC) was found in samples ACSGWPWC26 and ACSGWPWTB26. Manual quantitations were performed on one or more of the process files associated with this SDG including samples. The reasons have been coded with explanations provided in the notice included in the narrative section of the SDG.

All bromofluorobenzene (BFB) abundance criteria were met for tunes associated to this SDG.

Overall QC criteria were met for all initial and continuing calibration standards associated to this SDG. There is no Form VII in the deliverables package for the batch analyzed on instrument 61 on 09/27/2005 associated with the BFB injected at 1713. This batch included an initial calibration and the relevant relative response factors are all displayed on the appropriate Form VI. The initial calibration met all acceptance criteria and therefore samples could be analyzed without having to inject a continuing calibration verification standard.

All of the system monitoring compounds met recovery criteria in the analyses of these samples.

All of the internal standards met response and retention time criteria in the analyses of these samples.

The associated method blanks met all quality control criteria.

ACSGWPWB26 was used as the original to prepare the duplicate matrix spikes (MS/MSD) as requested. The associated duplicate matrix spikes met all accuracy and precision criteria with the exception of the RPDs for 1,1-Dichloroethene, Benzene, Trichloroethene, and Chlorobenzene in the MS/MSD.

The associated Laboratory Control Samples (LCS) met all accuracy criteria.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Furthermore, I certify that the tests used in this report meet all requirements of the NELAC standards unless otherwise stated in the SDG narrative or QA notice. Release of the data contained in this hardcopy data package and in the computer-readable data submitted electronically and on CD has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

S.A. Parikh

Saroj A. Parikh
GC/MS Case Reviewer
October 03, 2005

GC and GC/MS Column and Trap Specifications Table

SDG #:	7829

COLUMNS

Columns Utilized	Brand Name	Coating Material	ID (mm)	Film Thickness (um)	Length (m)
	GC Laboratory				
	Restek	RTX-5	0.53	1.0	30
	Restek	RTX-SMS	0.53	1.0	30
	Restek	CLPesticides	0.53	0.5	30
	Restek	CLPesticides II	0.53	0.42	30
	J&W	DB-210	0.53	1.0	30
	J&W	GS-GASPRO	0.32		30
	GC Volatiles Laboratory				
	Restek	RTX-Volatiles	0.53	2.0	30
	GC/MS Volatiles Laboratory				
	Restek	RTX-624	0.32	1.8	60
✓	Restek	RTX-VMS*	0.18	1.0	20
	Phenomonex	ZB-624	0.32	1.8	60
	Supelco	SPB-624	0.53	3	75
	Supelco	SPB-624	0.32	1.8	60
	GC/MS Semivolatiles Laboratory				
	Restek	RTX-5MS	0.25	0.3	30
	Restek	RTX-5MS	0.32	0.3	30
	HPLC Laboratory				
	Supelco	Supelcosil LC-PAH	4.6	5.0	15 cm
	Supelco	Discovery RP Amide C16	4.6	5.0	25 cm
	Restek	Pinnacle Cyano	4.6	5	25 cm
	Restek	Allure C18	4.6	5	25 cm

TRAPS

	GC and GC/MS Volatiles Laboratory	
	Tekmar 3	* 8 cm of 2,6-diphenylene oxide polymer (Tenax)
		* 8 cm of silica gel
		* 7 cm of coconut charcoal
		* 0.5 cm of silanized glass wool at each end
	Tekmar 5	* 1 cm of methyl silicone packing (OV-1 coating)
		* 8 cm of 2,6-diphenylene oxide polymer (Tenax)
		* 8 cm of silica gel
		* 7 cm of coconut charcoal
		* 0.5 cm of silanized glass wool at each end
✓	Supelco K (Vocarb3000)	* 10 cm of Carbopack B (Graphitized Carbons)
		* 6 cm of Carboxen 1000 (Carbon molecular sieves)
		* 1 cm of Carboxen 1001 (Carbon molecular sieves)

CompuChem's Pagination Convention

As required by the current EPA CLP Statement of Work (SOW) (Document Number OLM04.0, plus revisions), data to be delivered must be paginated (by machine or hand). In the event that the initial numbering is incorrect (a page numbered twice or a page skipped, for example), it is CompuChem's policy to add in an alphabetic suffix to a page number when necessary (e.g., 100A, 100B, etc.).

CompuChem

a division of Liberty Analytical Corporation

Notification Regarding Manual Editing/Integration Flags

In some instances, manual adjustments to the software output are necessary to provide accurate data. These adjustments are performed by the data reviewer, GC/MS operator, or GC chemist. An Extracted Ion Current Profile (EICP) or a GC chromatographic peak has been provided for the manual integration of each compound to demonstrate the accuracy of that process. Adjustments are flagged on the quantitation report in the far right column beyond the FINAL concentration for GC/MS analysis, and in the "Flags" column for GC analysis. The manual editing/integration flags are:

M - Denotes that a manual integration has been performed for this compound. The manual integration was performed in order to provide the most accurate area count as possible for the peak.

H - Denotes that the data reviewer, GC/MS operator, or GC Chemist has chosen an alternate peak within the retention time window from that chosen by the software for that compound. No manual integration is performed in choosing an alternate peak. The software still performs the integration.

MH - Denotes that an alternate peak has been chosen within the retention time window from that chosen by the software for that compound and also a manual integration of the chosen peak has been performed. The manual integration was performed in order to provide the most accurate area count possible for the peak.

L - Denotes that the data reviewer or GC/MS operator has selected an alternate library search. This is typically done when an additional tentatively identified compound (TIC) has been added to the number of peaks searched. No manual integration is performed in choosing an alternate peak. The software still performs the integration.

ML - Denotes that an alternate library search has been selected and a manual integration has also been performed. This is typically done when an additional TIC has been added and the TIC peak also required a manual integration.

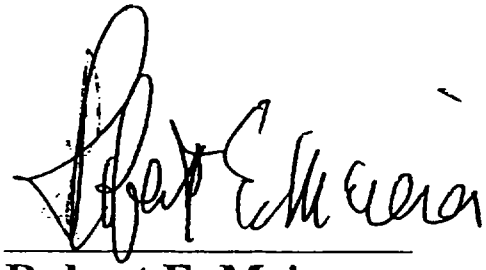
The EPA CLP SOW requires additional explanations for manual editing/integration. In the accompanying raw data packages, additional codes have been applied to the "M" flag and carry the following meanings;

M1 - The compound was not found by the automatic integration routine.

M2 - The compound was incorrectly integrated by the automatic integration routine.

M3 - The co-eluting compounds were incorrectly integrated by the automatic integration routine.

These codes will appear in the GC/MS and GC data packages.



Robert E. Meierer
Vice President

DATA REPORTING QUALIFIERS

On the Form I, under the column labeled "Q" for qualifier, each result is flagged with the specific data reporting qualifiers listed below, as appropriate. Up to five qualifiers may be reported on Form I for each compound. The qualifiers used are:

U : This flag indicates the compound was analyzed for but not detected. The Contract Required Quantitation Limit (CRQL), or reporting limit, will be adjusted to reflect any dilution and, for soils, the percent moisture.

J : This flag indicates an estimated value. The flag is used as detailed below:

1. When estimating a concentration for tentatively identified compounds (TICs) where a response factor of 1.0 is assumed for the TIC analyte,

2. When the mass spectral and retention time data indicate the presence of a compound that meets the volatile and semivolatile GC/MS identification criteria, and the result is less than the CRQL (or Reporting Limit) but greater than zero, and

3. When the retention time data indicate the presence of a compound that meets the pesticide/Aroclor or other GC or HPLC identification criteria, and the result is less than the CRQL (or Reporting Limit) but greater than zero. For example, if the CRQL (or Reporting Limit) is 10 µg/L, but a concentration of 3 µg/L is calculated, it is reported as 3J.

N : This flag indicates presumptive evidence of a compound. This flag is only used for TICs, where the identification is based on a mass spectral library search. For generic characterization of a TIC such as 'chlorinated hydrocarbon', the N flag is not used.

P : In the EPA's Contract Laboratory Program (CLP), this flag is used for a pesticide/Aroclor target analyte, when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form I and flagged with a P.
For SW-846 GC and HPLC analyses, when the Relative Percent Difference (RPD) is greater than 40% and there is no evidence of chromatographic anomalies or interferences, then the higher of the two values is reported and flagged with a P. When the RPD is equal to or less than 40%, our policy is to also report the higher of the two values, although the choice could be a project specific issue.

DATA REPORTING QUALIFIERS (continued)

C : This flag applies to GC or HPLC results where the identification has been confirmed by GC/MS. If GC/MS confirmation was attempted but was unsuccessful, this flag is not applied; a laboratory-defined flag is used instead (see the X/Y/Z qualifier.)

B : This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates probable blank contamination and warns the data user to take appropriate action. This flag is used for a TIC as well as for a positively identified target compound. The combination of flags BU or UB is not an allowable policy. Blank contaminants are flagged B only when they are detected in the sample.

E : This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis. If one or more compounds have a response greater than the upper level of the calibration range, the sample or extract will be diluted and reanalyzed. All such compounds with a response greater than the upper level of the calibration range will have the concentration flagged with an E on Form I for the original analysis.

D : If a sample or extract is reanalyzed at a higher dilution factor, for example when the concentration of an analyte exceeds the upper calibration range, the DL suffix is appended to the sample number on Form I for the more diluted sample, and all reported concentrations on that Form I are flagged with the D flag. This flag alerts data users that any discrepancies between the reported concentrations may be due to dilution of the sample or extract.

NOTE 1: The D flag is not applied to compounds which are not detected in the sample analysis i.e. compounds reported with the CRQL (or Reporting Limit) and the U flag.

NOTE 2: Separate Form Is are used for reporting the original analysis (Client Sample No. XXXXX) and the more diluted sample analysis (Client Sample No. XXXXXDL) i.e. the results from both analyses are not combined on a single Form I.

A : This flag indicates that a TIC is a suspected aldol-condensation product.

X/Y/Z : Other specific flags may be required to properly define the results. If used, the flags will be fully described in the SDG Narrative. The laboratory-defined flags are limited to X, Y and Z.

B. Form I and Form I - TIC

Organic Analysis Data Sheet (OADS) and Tentatively Identified Compounds (TICs)

- All samples in alphanumeric order
- Matrix Spike/Matrix Spike Duplicate
- Laboratory Control Sample(s)

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWPWA26

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 782901

Sample wt/vol: 25 (g/ml) ML Lab File ID: 782901B61

Level: (low/med) LOW Date Received: 09/26/05

% Moisture: not dec. _____ Date Analyzed: 09/28/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
75-15-0	Carbon disulfide	0.50	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	0.50	U
67-64-1	Acetone	2.5	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene Chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl-tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-butanone	2.5	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	2.5	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-hexanone	2.5	U
124-48-1	Dibromochloromethane	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWPWA26

ab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 782901

Sample wt/vol: 25 (g/ml) ML Lab File ID: 782901B61

Level: (low/med) LOW Date Received: 09/26/05

% Moisture: not dec. _____ Date Analyzed: 09/28/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
108-38-3	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropyl Benzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-Chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
110-82-7	Cyclohexane	0.50	U
108-87-2	Methylcyclohexane	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWPWA26

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 782901

Sample wt/vol: 25 (g/ml) ML Lab File ID: 782901B61

Level: (low/med) LOW Date Received: 09/26/05

% Moisture: not dec. _____ Date Analyzed: 09/28/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWPWB26

ab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 782903

Sample wt/vol: 25 (g/ml) ML Lab File ID: 782903B61

Level: (low/med) LOW Date Received: 09/27/05

% Moisture: not dec. _____ Date Analyzed: 09/28/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
75-15-0	Carbon disulfide	0.50	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	0.50	U
67-64-1	Acetone	2.5	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene Chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl-tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.38	J
78-93-3	2-butanone	2.5	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	2.5	U
108-88-3	Toluene	0.32	J
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-hexanone	2.5	U
124-48-1	Dibromochloromethane	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWPWB26

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 782903

Sample wt/vol: 25 (g/ml) ML Lab File ID: 782903B61

Level: (low/med) LOW Date Received: 09/27/05

% Moisture: not dec. _____ Date Analyzed: 09/28/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
108-38-3	m,p-Xylene	0.54	J
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropyl Benzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-Chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
1330-20-7	Xylene (total)	0.57	
110-82-7	Cyclohexane	0.50	U
108-87-2	Methylcyclohexane	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWPWB26

ab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 782903

Sample wt/vol: 25 (g/ml) ML Lab File ID: 782903B61

Level: (low/med) LOW Date Received: 09/27/05

% Moisture: not dec. _____ Date Analyzed: 09/28/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWPWC26

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 782905

Sample wt/vol: 25 (g/ml) ML Lab File ID: 782905B61

Level: (low/med) LOW Date Received: 09/27/05

% Moisture: not dec. _____ Date Analyzed: 09/29/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.20	J
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
75-15-0	Carbon disulfide	0.50	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	0.50	U
67-64-1	Acetone	2.5	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene Chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl-tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-butanone	2.5	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	2.5	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-hexanone	2.5	U
124-48-1	Dibromochloromethane	0.50	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWPWC26

ıb Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 782905

Sample wt/vol: 25 (g/ml) ML Lab File ID: 782905B61

Level: (low/med) LOW Date Received: 09/27/05

% Moisture: not dec. _____ Date Analyzed: 09/29/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
108-38-3	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropyl Benzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-Chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
110-82-7	Cyclohexane	0.50	U
108-87-2	Methylcyclohexane	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWPWC26

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 782905

Sample wt/vol: 25 (g/ml) ML Lab File ID: 782905B61

Level: (low/med) LOW Date Received: 09/27/05

% Moisture: not dec. _____ Date Analyzed: 09/29/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

Number TICs found: 1

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	0.88	0.62	J
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWPWD26

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 782907

Sample wt/vol: 25 (g/ml) ML Lab File ID: 782907B61

Level: (low/med) LOW Date Received: 09/27/05

% Moisture: not dec. _____ Date Analyzed: 09/29/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
75-15-0	Carbon disulfide	0.50	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	0.50	U
67-64-1	Acetone	2.5	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene Chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl-tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-butanone	2.5	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	2.5	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-hexanone	2.5	U
124-48-1	Dibromochloromethane	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWPWD26

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 782907

Sample wt/vol: 25 (g/ml) ML Lab File ID: 782907B61

Level: (low/med) LOW Date Received: 09/27/05

% Moisture: not dec. _____ Date Analyzed: 09/29/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
108-38-3	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropyl Benzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-Chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
110-82-7	Cyclohexane	0.50	U
108-87-2	Methylcyclohexane	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWPWD26

b Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 782907

Sample wt/vol: 25 (g/ml) ML Lab File ID: 782907B61

Level: (low/med) LOW Date Received: 09/27/05

% Moisture: not dec. _____ Date Analyzed: 09/29/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWPWDUP26

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 782902

Sample wt/vol: 25 (g/ml) ML Lab File ID: 782902B61

Level: (low/med) LOW Date Received: 09/26/05

% Moisture: not dec. _____ Date Analyzed: 09/28/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
75-15-0	Carbon disulfide	0.50	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	0.50	U
67-64-1	Acetone	2.5	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene Chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl-tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-butanone	2.5	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	2.5	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-hexanone	2.5	U
124-48-1	Dibromochloromethane	0.50	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWPWDUP26

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 782902

Sample wt/vol: 25 (g/ml) ML Lab File ID: 782902B61

Level: (low/med) LOW Date Received: 09/26/05

% Moisture: not dec. _____ Date Analyzed: 09/28/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
108-38-3	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropyl Benzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-Chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
110-82-7	Cyclohexane	0.50	U
108-87-2	Methylcyclohexane	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWPWDUP26

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 782902

Sample wt/vol: 25 (g/ml) ML Lab File ID: 782902B61

Level: (low/med) LOW Date Received: 09/26/05

% Moisture: not dec. _____ Date Analyzed: 09/28/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWPWT26

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 782904

Sample wt/vol: 25 (g/ml) ML Lab File ID: 782904B61

Level: (low/med) LOW Date Received: 09/27/05

% Moisture: not dec. _____ Date Analyzed: 09/29/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.24	J
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
75-15-0	Carbon disulfide	0.50	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	0.50	U
67-64-1	Acetone	2.5	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene Chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl-tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-butanone	2.5	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	2.5	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-hexanone	2.5	U
124-48-1	Dibromochloromethane	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWPWT26

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 782904

Sample wt/vol: 25 (g/ml) ML Lab File ID: 782904B61

Level: (low/med) LOW Date Received: 09/27/05

% Moisture: not dec. _____ Date Analyzed: 09/29/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
108-38-3	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropyl Benzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-Chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
110-82-7	Cyclohexane	0.50	U
108-87-2	Methylcyclohexane	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWPWT26

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 782904

Sample wt/vol: 25 (g/ml) ML Lab File ID: 782904B61

Level: (low/med) LOW Date Received: 09/27/05

% Moisture: not dec. _____ Date Analyzed: 09/29/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWPWTB26

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 782906

Sample wt/vol: 25 (g/ml) ML Lab File ID: 782906B61

Level: (low/med) LOW Date Received: 09/27/05

% Moisture: not dec. _____ Date Analyzed: 09/28/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
75-15-0	Carbon disulfide	0.50	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	0.50	U
67-64-1	Acetone	2.1	JB
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene Chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl-tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.23	J
78-93-3	2-butanone	2.5	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	2.5	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-hexanone	2.5	U
124-48-1	Dibromochloromethane	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWPWTB26

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 782906

Sample wt/vol: 25 (g/ml) ML Lab File ID: 782906B61

Level: (low/med) LOW Date Received: 09/27/05

% Moisture: not dec. _____ Date Analyzed: 09/28/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.12	J
108-38-3	m,p-Xylene	0.78	J
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropyl Benzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-Chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
1330-20-7	Xylene (total)	0.82	
110-82-7	Cyclohexane	0.50	U
108-87-2	Methylcyclohexane	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWPWTB26

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 782906

Sample wt/vol: 25 (g/ml) ML Lab File ID: 782906B61

Level: (low/med) LOW Date Received: 09/27/05

% Moisture: not dec. _____ Date Analyzed: 09/28/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

Number TICs found: 1

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	1066-40-6	SILANOL, TRIMETHYL-	2.62	1.7	NJ
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWPWB26MS

ab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 81068

Sample wt/vol: 25 (g/ml) ML Lab File ID: 81068RA61

Level: (low/med) LOW Date Received: 09/27/05

% Moisture: not dec. _____ Date Analyzed: 09/29/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	4.0	
75-15-0	Carbon disulfide	0.50	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	0.50	U
67-64-1	Acetone	2.5	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene Chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl-tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-butanone	2.5	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	4.4	
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	3.9	
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	2.5	U
108-88-3	Toluene	4.2	
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-hexanone	2.5	U
124-48-1	Dibromochloromethane	0.50	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWPWB26MS

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 81068

Sample wt/vol: 25 (g/ml) ML Lab File ID: 81068RA61

Level: (low/med) LOW Date Received: 09/27/05

% Moisture: not dec. _____ Date Analyzed: 09/29/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	4.1	
100-41-4	Ethylbenzene	0.50	U
108-38-3	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropyl Benzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-Chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
110-82-7	Cyclohexane	0.50	U
108-87-2	Methylcyclohexane	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWPWB26MSD

Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 81069

Sample wt/vol: 25 (g/ml) ML Lab File ID: 81069RA61

Level: (low/med) LOW Date Received: 09/27/05

% Moisture: not dec. _____ Date Analyzed: 09/29/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	5.4	
75-15-0	Carbon disulfide	0.50	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	0.50	U
67-64-1	Acetone	2.5	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene Chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl-tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.36	J
78-93-3	2-butanone	2.5	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	5.0	
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	4.4	
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	2.5	U
108-88-3	Toluene	5.2	
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-hexanone	2.5	U
124-48-1	Dibromochloromethane	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWPWB26MSD

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 81069

Sample wt/vol: 25 (g/ml) ML Lab File ID: 81069RA61

Level: (low/med) LOW Date Received: 09/27/05

% Moisture: not dec. _____ Date Analyzed: 09/29/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	4.9	
100-41-4	Ethylbenzene	0.50	U
108-38-3	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropyl Benzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-Chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
110-82-7	Cyclohexane	0.50	U
108-87-2	Methylcyclohexane	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VCVLCS

Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 80886

Sample wt/vol: 25 (g/ml) ML Lab File ID: 80886B61_7829

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

% Moisture: not dec. _____ Date Analyzed: 09/27/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	3.5	
74-87-3	Chloromethane	4.3	
75-01-4	Vinyl Chloride	3.7	
74-83-9	Bromomethane	3.5	
75-00-3	Chloroethane	3.6	
75-69-4	Trichlorofluoromethane	3.9	
75-35-4	1,1-Dichloroethene	3.8	
75-15-0	Carbon disulfide	3.9	
76-13-1	1,1,2-trichloro-1,2,2-triflu	3.6	
67-64-1	Acetone	22	
79-20-9	Methyl acetate	5.1	
75-09-2	Methylene Chloride	4.5	
156-60-5	trans-1,2-Dichloroethene	4.1	
1634-04-4	Methyl-tert-butyl ether	5.1	
75-34-3	1,1-Dichloroethane	4.4	
156-59-2	cis-1,2-Dichloroethene	4.4	
78-93-3	2-butanone	25	
67-66-3	Chloroform	4.5	
71-55-6	1,1,1-Trichloroethane	4.3	
56-23-5	Carbon Tetrachloride	4.4	
71-43-2	Benzene	4.4	
107-06-2	1,2-Dichloroethane	4.7	
79-01-6	Trichloroethene	3.9	
78-87-5	1,2-Dichloropropane	4.6	
75-27-4	Bromodichloromethane	4.5	
10061-01-5	cis-1,3-Dichloropropene	4.7	
108-10-1	4-Methyl-2-pentanone	26	
108-88-3	Toluene	4.2	
10061-02-6	trans-1,3-Dichloropropene	4.7	
79-00-5	1,1,2-Trichloroethane	4.6	
127-18-4	Tetrachloroethene	3.9	
591-78-6	2-hexanone	25	
124-48-1	Dibromochloromethane	4.8	

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VCVLCS

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 80886

Sample wt/vol: 25 (g/ml) ML Lab File ID: 80886B61_7829

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

% Moisture: not dec. _____ Date Analyzed: 09/27/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
106-93-4	1,2-Dibromoethane	4.6	
108-90-7	Chlorobenzene	4.3	
100-41-4	Ethylbenzene	4.2	
108-38-3	m,p-Xylene	8.6	
95-47-6	o-Xylene	4.5	
100-42-5	Styrene	4.5	
75-25-2	Bromoform	5.0	
98-82-8	Isopropyl Benzene	4.2	
79-34-5	1,1,2,2-Tetrachloroethane	4.5	
541-73-1	1,3-Dichlorobenzene	4.0	
106-46-7	1,4-Dichlorobenzene	4.1	
95-50-1	1,2-Dichlorobenzene	4.2	
96-12-8	1,2-Dibromo-3-Chloropropane	4.7	
120-82-1	1,2,4-Trichlorobenzene	3.2	B
1330-20-7	Xylene (total)	14	
110-82-7	Cyclohexane	4.1	
108-87-2	Methylcyclohexane	3.6	

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VEDLCS

ab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 81182

Sample wt/vol: 25 (g/ml) ML Lab File ID: 81182B61_7829

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

% Moisture: not dec. _____ Date Analyzed: 09/28/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	4.8	
74-87-3	Chloromethane	4.2	
75-01-4	Vinyl Chloride	4.6	
74-83-9	Bromomethane	4.1	
75-00-3	Chloroethane	3.9	
75-69-4	Trichlorofluoromethane	4.6	
75-35-4	1,1-Dichloroethene	4.6	
75-15-0	Carbon disulfide	4.8	
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.2	
67-64-1	Acetone	18	B
79-20-9	Methyl acetate	4.0	
75-09-2	Methylene Chloride	4.6	
156-60-5	trans-1,2-Dichloroethene	4.8	
1634-04-4	Methyl-tert-butyl ether	4.6	
75-34-3	1,1-Dichloroethane	4.9	
156-59-2	cis-1,2-Dichloroethene	4.6	
78-93-3	2-butanone	20	
67-66-3	Chloroform	4.8	
71-55-6	1,1,1-Trichloroethane	4.9	
56-23-5	Carbon Tetrachloride	4.7	
71-43-2	Benzene	4.6	
107-06-2	1,2-Dichloroethane	4.7	
79-01-6	Trichloroethene	4.5	
78-87-5	1,2-Dichloropropane	4.8	
75-27-4	Bromodichloromethane	4.7	
10061-01-5	cis-1,3-Dichloropropene	4.5	
108-10-1	4-Methyl-2-pentanone	21	
108-88-3	Toluene	4.5	
10061-02-6	trans-1,3-Dichloropropene	4.8	
79-00-5	1,1,2-Trichloroethane	4.4	
127-18-4	Tetrachloroethene	4.5	
591-78-6	2-hexanone	21	
124-48-1	Dibromochloromethane	4.7	

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VEDLCS

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 81182

Sample wt/vol: 25 (g/ml) ML Lab File ID: 81182B61_7829

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

% Moisture: not dec. _____ Date Analyzed: 09/28/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
106-93-4	1,2-Dibromoethane	4.4	
108-90-7	Chlorobenzene	4.5	
100-41-4	Ethylbenzene	4.6	
108-38-3	m,p-Xylene	9.1	
95-47-6	o-Xylene	4.6	
100-42-5	Styrene	4.5	
75-25-2	Bromoform	4.8	
98-82-8	Isopropyl Benzene	4.7	
79-34-5	1,1,2,2-Tetrachloroethane	4.3	
541-73-1	1,3-Dichlorobenzene	4.3	
106-46-7	1,4-Dichlorobenzene	4.3	
95-50-1	1,2-Dichlorobenzene	4.3	
96-12-8	1,2-Dibromo-3-Chloropropane	4.0	
120-82-1	1,2,4-Trichlorobenzene	3.3	B
1330-20-7	Xylene (total)	14	
110-82-7	Cyclohexane	5.0	
108-87-2	Methylcyclohexane	5.0	

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VDJLCS

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 81065

Sample wt/vol: 25 (g/ml) ML Lab File ID: 81065A61_7829

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

% Moisture: not dec. _____ Date Analyzed: 09/29/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5.3	
74-87-3	Chloromethane	4.9	
75-01-4	Vinyl Chloride	4.6	
74-83-9	Bromomethane	3.5	
75-00-3	Chloroethane	4.3	
75-69-4	Trichlorofluoromethane	5.1	
75-35-4	1,1-Dichloroethene	4.5	
75-15-0	Carbon disulfide	4.9	
76-13-1	1,1,2-trichloro-1,2,2-triflu	4.8	
67-64-1	Acetone	20	
79-20-9	Methyl acetate	5.0	
75-09-2	Methylene Chloride	5.0	B
156-60-5	trans-1,2-Dichloroethene	4.9	
1634-04-4	Methyl-tert-butyl ether	4.9	
75-34-3	1,1-Dichloroethane	5.0	
156-59-2	cis-1,2-Dichloroethene	4.7	
78-93-3	2-butanone	23	
67-66-3	Chloroform	5.1	
71-55-6	1,1,1-Trichloroethane	5.1	
56-23-5	Carbon Tetrachloride	4.9	
71-43-2	Benzene	4.9	
107-06-2	1,2-Dichloroethane	5.0	
79-01-6	Trichloroethene	4.7	
78-87-5	1,2-Dichloropropane	4.8	
75-27-4	Bromodichloromethane	5.1	
10061-01-5	cis-1,3-Dichloropropene	5.0	
108-10-1	4-Methyl-2-pentanone	24	
108-88-3	Toluene	4.7	
10061-02-6	trans-1,3-Dichloropropene	5.1	
79-00-5	1,1,2-Trichloroethane	4.6	
127-18-4	Tetrachloroethene	4.7	
591-78-6	2-hexanone	23	
124-48-1	Dibromochloromethane	5.0	

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VDJLCS

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 81065

Sample wt/vol: 25 (g/ml) ML Lab File ID: 81065A61_7829

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

% Moisture: not dec. _____ Date Analyzed: 09/29/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
106-93-4	1,2-Dibromoethane	4.7	
108-90-7	Chlorobenzene	4.7	
100-41-4	Ethylbenzene	4.8	
108-38-3	m,p-Xylene	9.7	
95-47-6	o-Xylene	4.9	
100-42-5	Styrene	4.8	
75-25-2	Bromoform	5.0	
98-82-8	Isopropyl Benzene	4.9	
79-34-5	1,1,2,2-Tetrachloroethane	4.6	
541-73-1	1,3-Dichlorobenzene	4.6	
106-46-7	1,4-Dichlorobenzene	4.5	
95-50-1	1,2-Dichlorobenzene	4.5	
96-12-8	1,2-Dibromo-3-Chloropropane	4.3	
120-82-1	1,2,4-Trichlorobenzene	3.7	
1330-20-7	Xylene (total)	15	
110-82-7	Cyclohexane	5.0	
108-87-2	Methylcyclohexane	5.2	

C. Form II

Surrogate spike analysis

- By level (low, medium, high) -

FORM 2
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

	CLIENT SAMPLE NO.	SMC1 (DBF) #	SMC2 (DCE) #	SMC3 (TOL) #	SMC4 (BFB) #	TOT OUT
01	VBLKCG	105	96	98	100	0
02	VCVLCS	90	89	86	79	0
03	ACSGWPWA26	91	99	97	105	0
04	ACSGWPWDUP26	96	100	102	102	0
05	VBLKED	105	101	101	97	0
06	VEDLCS	99	94	102	104	0
07	ACSGWPWTB26	105	96	101	104	0
08	ACSGWPWB26	86	99	99	98	0
09	ACSGWPWT26	94	103	98	106	0
10	ACSGWPWC26	95	104	99	101	0
11	ACSGWPWD26	84	94	102	102	0
12	VBLKDJ	97	97	98	103	0
13	VDJLCS	102	103	100	102	0
14	ACSGWPWB26MS	105	105	98	100	0
15	ACSGWPWB26MS	85	103	100	105	0
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						

		QC LIMITS
SMC1 (DBF)	= Dibromofluoromethane	(65-150)
SMC2 (DCE)	= 1,2-Dichloroethane-d4	(59-150)
SMC3 (TOL)	= Toluene-d8	(61-145)
SMC4 (BFB)	= Bromofluorobenzene	(63-143)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

D. Form III

Matrix Spike/Matrix Spike Duplicate results
- By level (low, medium, high) -
Laboratory Control Sample(s)

FORM 3
WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix Spike - Sample No.: ACSGWPWB26

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	5	0.0	3.989	80	50-150
Benzene	5	0.0	4.409	88	76-134
Trichloroethene	5	0.0	3.861	77	71-143
Toluene	5	0.3156	4.177	77	70-137
Chlorobenzene	5	0.0	4.145	83	74-136

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC
1,1-Dichloroethene	5	5.392	108	30*	14	50-150
Benzene	5	5.012	100	13*	11	76-134
Trichloroethene	5	4.422	88	14	14	71-143
Toluene	5	5.2	98	22*	13	70-137
Chlorobenzene	5	4.913	98	17*	13	74-136

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

* Values outside of QC limits

RPD: 4 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS: _____

3A
WATER VOLATILE LAB CONTROL SAMPLE

VCVLCS

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	5	3.817	76	50-150
Benzene	5	4.408	88	76-134
Trichloroethene	5	3.923	78	71-143
Toluene	5	4.238	85	70-137
Chlorobenzene	5	4.314	86	74-136

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

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III VOA-1

3A
WATER VOLATILE LAB CONTROL SAMPLE

VEDLCS

La[illegible]CHEM Contract: 8260B

La[illegible]Y Case No.: SAS No.: SDG No.: 7829

[illegible]	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
[illegible]thene	5	4.564	91	50-150
[illegible]	5	4.586	92	76-134
[illegible]thene	5	4.482	90	71-143
[illegible]	5	4.53	91	70-137
[illegible]	5	4.506	90	74-136

[illegible] used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III VOA-1

3A
WATER VOLATILE LAB CONTROL SAMPLE

VDJLCS

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	5	4.533	91	50-150
Benzene	5	4.9	98	76-134
Trichloroethene	5	4.661	93	71-143
Toluene	5	4.724	94	70-137
Chlorobenzene	5	4.742	95	74-136

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

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS: _____

E. Form IV

Method Blank Results
Form IV, Form I, and Form I - TIC

Method blank summary, OADS, and TICs
- In chronological order of analysis

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO

VBLKCG

b Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Lab File ID: 80800RB61_7829 Lab Sample ID: 80800

Date Analyzed: 09/27/05 Time Analyzed: 2128

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: 5973HP61

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

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VCVLCS	80886	80886B61_782	2225
02	ACSGWPWA26	782901	782901B61	0442
03	ACSGWPWDUP26	782902	782902B61	0505
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBLKCG

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 80800

Sample wt/vol: 25 (g/ml) ML Lab File ID: 80800RB61_7829

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

% Moisture: not dec. _____ Date Analyzed: 09/27/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
75-15-0	Carbon disulfide	0.50	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	0.50	U
67-64-1	Acetone	2.5	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene Chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl-tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-butanone	2.5	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	2.5	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-hexanone	2.5	U
124-48-1	Dibromochloromethane	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBLKCG

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 80800

Sample wt/vol: 25 (g/ml) ML Lab File ID: 80800RB61_7829

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

% Moisture: not dec. _____ Date Analyzed: 09/27/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
108-38-3	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropyl Benzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-Chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.19	J
1330-20-7	Xylene (total)	0.50	U
110-82-7	Cyclohexane	0.50	U
108-87-2	Methylcyclohexane	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

VBLKCG

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 80800

Sample wt/vol: 25 (g/ml) ML Lab File ID: 80800RB61_7829

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

% Moisture: not dec. _____ Date Analyzed: 09/27/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I VOA-TIC

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO

VBLKED

b Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Lab File ID: 81179RB61_7829 Lab Sample ID: 81179

Date Analyzed: 09/28/05 Time Analyzed: 1750

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: 5973HP61

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

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VEDLCS	81182	81182B61_782	1813
02	ACSGWPWTB26	782906	782906B61	2250
03	ACSGWPWB26	782903	782903B61	2313
04	ACSGWPWT26	782904	782904B61	0043
05	ACSGWPWC26	782905	782905B61	0105
06	ACSGWPWD26	782907	782907B61	0128
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBLKED

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 81179

Sample wt/vol: 25 (g/ml) ML Lab File ID: 81179RB61_7829

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

% Moisture: not dec. _____ Date Analyzed: 09/28/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
75-15-0	Carbon disulfide	0.50	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	0.50	U
67-64-1	Acetone	1.6	J
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene Chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl-tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-butanone	2.5	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	2.5	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-hexanone	2.5	U
124-48-1	Dibromochloromethane	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBLKED

ab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 81179

Sample wt/vol: 25 (g/ml) ML Lab File ID: 81179RB61_7829

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

% Moisture: not dec. _____ Date Analyzed: 09/28/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
108-38-3	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropyl Benzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-Chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.11	J
1330-20-7	Xylene (total)	0.50	U
110-82-7	Cyclohexane	0.50	U
108-87-2	Methylcyclohexane	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

VBLKED

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 81179

Sample wt/vol: 25 (g/ml) ML Lab File ID: 81179RB61_7829

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

% Moisture: not dec. _____ Date Analyzed: 09/28/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I VOA-TIC

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO

VBLKDJ

b Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Lab File ID: 81062RA61_7829 Lab Sample ID: 81062

Date Analyzed: 09/29/05 Time Analyzed: 1520

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: 5973HP61

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

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VDJLCS	81065	81065A61_782	1543
02	ACSGWPWB26MS	81068	81068RA61	1731
03	ACSGWPWB26MS	81069	81069RA61	1754
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBLKDJ

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 81062

Sample wt/vol: 25 (g/ml) ML Lab File ID: 81062RA61_7829

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

% Moisture: not dec. _____ Date Analyzed: 09/29/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
75-15-0	Carbon disulfide	0.50	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	0.50	U
67-64-1	Acetone	2.5	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene Chloride	0.18	J
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl-tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-butanone	2.5	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	2.5	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-hexanone	2.5	U
124-48-1	Dibromochloromethane	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBLKDJ

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 81062

Sample wt/vol: 25 (g/ml) ML Lab File ID: 81062RA61_7829

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

% Moisture: not dec. _____ Date Analyzed: 09/29/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
108-38-3	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropyl Benzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-Chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
110-82-7	Cyclohexane	0.50	U
108-87-2	Methylcyclohexane	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

VBLKDJ

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 81062

Sample wt/vol: 25 (g/ml) ML Lab File ID: 81062RA61_7829

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

% Moisture: not dec. _____ Date Analyzed: 09/29/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I VOA-TIC

F. Form VIII

Internal standard area and retention time data

(VOA and SV only)

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Lab File ID (Standard): CX050927B61 Date Analyzed: 09/27/05

Instrument ID: 5973HP61 Time Analyzed: 1907

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

		IS1(FBZ) AREA #	RT #	IS2(CBZ) AREA #	RT #	IS3(DCB) AREA #	RT #
	12 HOUR STD	211398	3.52	161698	5.07	88664	5.90
	UPPER LIMIT	422796	4.02	323396	5.57	177328	6.40
	LOWER LIMIT	105699	3.02	80849	4.57	44332	5.40
	CLIENT SAMPLE NO.						
01	VBLKCG	274913	3.52	214217	5.07	115398	5.90
02	VCVLCS	221126	3.52	164362	5.07	92265	5.90
03	ACSGWPWA26	304687	3.52	237556	5.07	123855	5.90
04	ACSGWPWDUP26	292209	3.52	226360	5.07	122387	5.91
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

IS1 (FBZ) = Fluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

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

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

ab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Lab File ID (Standard): CT050928B61 Date Analyzed: 09/28/05

Instrument ID: 5973HP61 Time Analyzed: 1658

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

		IS1(FBZ) AREA	#	RT	#	IS2(CBZ) AREA	#	RT	#	IS3(DCB) AREA	#	RT	#
	12 HOUR STD	294195		3.52		229865		5.07		124584		5.90	
	UPPER LIMIT	588390		4.02		459730		5.57		249168		6.40	
	LOWER LIMIT	147098		3.02		114932		4.57		62292		5.40	
	CLIENT SAMPLE NO.												
01	VBLKED	291026		3.52		223479		5.07		125328		5.91	
02	VEDLCS	289212		3.52		219660		5.07		118670		5.91	
03	ACSGWPWTB26	272688		3.52		205470		5.07		110696		5.91	
04	ACSGWPWB26	290904		3.52		228882		5.07		123109		5.91	
05	ACSGWPWT26	293230		3.52		234875		5.07		120610		5.91	
06	ACSGWPWC26	291834		3.52		230438		5.07		125072		5.91	
07	ACSGWPWD26	287181		3.52		220363		5.07		115821		5.91	
08													
09													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													

IS1 (FBZ) = Fluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column 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: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Lab File ID (Standard): CS050929A61 Date Analyzed: 09/29/05

Instrument ID: 5973HP61 Time Analyzed: 1429

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

		IS1(FBZ) AREA #	RT #	IS2(CBZ) AREA #	RT #	IS3(DCB) AREA #	RT #
	12 HOUR STD	404740	3.52	298322	5.07	155034	5.91
	UPPER LIMIT	809480	4.02	596644	5.57	310068	6.41
	LOWER LIMIT	202370	3.02	149161	4.57	77517	5.41
	CLIENT SAMPLE NO.						
01	VBLKDJ	354716	3.52	272697	5.07	146580	5.91
02	VDJLCS	351496	3.52	269947	5.07	143677	5.91
03	ACSGWPWB26MS	329301	3.52	267201	5.07	143801	5.91
04	ACSGWPWB26MS	342584	3.52	261475	5.07	137256	5.91
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

IS1 (FBZ) = Fluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

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

The sample data package shall include data for all analyses of all samples in one Sample Delivery Group (SDG), including field samples, dilutions, reanalyses, blanks, matrix spikes, matrix spike duplicates, and laboratory control samples. The sample data package consists of the following:

A. SDG Narrative

B. Chain-of-Custody Documentation

C. SDG Data

LAB CODE : LIBRTY METHOD: 8260B

CASE # : _____ SDG # : 7829

A. SDG Narrative

CompuChem

a division of Liberty Analytical Corporation
501 Madison Avenue
Cary, N.C. 27513
Tel: 919/379-4100 Fax: 919/379-4050

SDG NARRATIVE

SDG # 7829
PROTOCOL: SW-846

SAMPLE IDENTIFICATIONS: ACSGWPWA26, ACSGWPWDUP26, ACSGWPWB26, ACSGWPWT26, ACSGWPWC26, ACSGWPWTB26, and ACSGWPWD26

The seven water samples listed above were received intact, properly refrigerated at 2.0-5.7°C, with proper documentation, in sealed shipping containers, on September 26 and 27, 2005. The samples were scheduled for the requested analysis of the volatile fraction. SW-846, 3rd Edition, Update 3, Method 8260B was used to analyze these samples, with the exceptions and/or additions requested by the client. All pertinent Quality Assurance Notices are included in the narrative section and all pertinent Laboratory Notices for this SDG are included in the sample data section. This narrative pertains to the volatile fraction only.

VOLATILES

Analysis holding time requirements were met for all of these samples. The pH values have been tabulated on the run log copies in the standards portion of the report. One or more volatile Target Compound List (TCL) analytes were identified above the Contract Required Quantitation Limit (CRQL) in samples ACSGWPWB26 and ACSGWPWTB26. One Tentatively Identified Compound (TIC) was found in samples ACSGWPWC26 and ACSGWPWTB26. Manual quantitations were performed on one or more of the process files associated with this SDG including samples. The reasons have been coded with explanations provided in the notice included in the narrative section of the SDG.

All bromofluorobenzene (BFB) abundance criteria were met for tunes associated to this SDG.

Overall QC criteria were met for all initial and continuing calibration standards associated to this SDG. There is no Form VII in the deliverables package for the batch analyzed on instrument 61 on 09/27/2005 associated with the BFB injected at 1713. This batch included an initial calibration and the relevant relative response factors are all displayed on the appropriate Form VI. The initial calibration met all acceptance criteria and therefore samples could be analyzed without having to inject a continuing calibration verification standard.

All of the system monitoring compounds met recovery criteria in the analyses of these samples.

All of the internal standards met response and retention time criteria in the analyses of these samples.

The associated method blanks met all quality control criteria.

ACSGWPWB26 was used as the original to prepare the duplicate matrix spikes (MS/MSD) as requested. The associated duplicate matrix spikes met all accuracy and precision criteria with the exception of the RPDs for 1,1-Dichloroethene, Benzene, Trichloroethene, and Chlorobenzene in the MS-MSD.

The associated Laboratory Control Samples (LCS) met all accuracy criteria.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Furthermore, I certify that the tests used in this report meet all requirements of the NELAC standards unless otherwise stated in the SDG narrative or QA notice. Release of the data contained in this hardcopy data package and in the computer-readable data submitted electronically and on CD has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

S.A. Parikh

Saroj A. Parikh
GC/MS Case Reviewer
October 03, 2005

Laboratory Notice

Calibration Date(s): 27-SEP-2005 18:12 27-SEP-2005 20:02

Instrument ID: 5973hp61

An initial calibration was analyzed by Method 8260B. Per the methodology, all compounds are to meet a Percent Relative Standard Deviation (%RSD) limit of no more than 15%. Additional calibration options are provided in the method when the RSD exceeds 15%. CompuChem has chosen to apply the option of determining the mean RSD values for all analytes in the initial calibration.

When there are analytes with %RSDs greater than the limit, proof of calibration linearity can be shown if the average of all compounds in the initial calibration meet the same 15% limit. Based on Method 8260B, Sec. 7.3.8.2, and Method 8000B, Sec. 7.5.1.2 requirements, we are providing a list of the compounds which failed to meet the limit, and their associated %RSDs. Finally, the average of all %RSDs from all compounds in the initial calibration is shown, confirming the usability of the initial calibration and any data that follows it.

Compound Name	RSD
Bromomethane	24.8
Iodomethane	20.7
3-Chloropropene	32.6
Acetonitrile	21.0
2,2-Dichloropropane	19.8
1,4-dioxane	15.8
2-Chloroethyl vinyl ether	74.7
[illegible]tyl Benzene	19.9
1,2-Dibromo-3-Chloropropane	18.9
1,2,4-Trichlorobenzene	45.2
Hexachlorobutadiene	35.6
Naphthalene	40.8
1,2,3-Trichlorobenzene	55.9
Bromofluorobenzene	15.4

Average %RSD for all compounds in the Initial Calibration: 10.9 %

Data Reviewer/ID: [signature] / 2537

Date: 9.28.05

GC and GC/MS Column and Trap Specifications Table

SDG #:	7829

COLUMNS

Columns Utilized	Brand Name	Coating Material	ID (mm)	Film Thickness (um)	Length (m)
	GC Laboratory				
	Restek	RTX-5	0.53	1.0	30
	Restek	RTX-SMS	0.53	1.0	30
	Restek	CLPesticides	0.53	0.5	30
	Restek	CLPesticides II	0.53	0.42	30
	J&W	DB-210	0.53	1.0	30
	J&W	GS-GASPRO	0.32		30
	GC Volatiles Laboratory				
	Restek	RTX-Volatiles	0.53	2.0	30
	GC/MS Volatiles Laboratory				
	Restek	RTX-624	0.32	1.8	60
✓	Restek	RTX-VMS*	0.18	1.0	20
	Phenomonex	ZB-624	0.32	1.8	60
	Supelco	SPB-624	0.53	3	75
	Supelco	SPB-624	0.32	1.8	60
	GC/MS Semivolatiles Laboratory				
	Restek	RTX-5MS	0.25	0.3	30
	Restek	RTX-5MS	0.32	0.3	30
	HPLC Laboratory				
	Supelco	Supelcosil LC-PAH	4.6	5.0	15 cm
	Supelco	Discovery RP Amide C16	4.6	5.0	25 cm
	Restek	Pinnacle Cyano	4.6	5	25 cm
	Restek	Allure C18	4.6	5	25 cm

TRAPS

	GC and GC/MS Volatiles Laboratory	
	Tekmar 3	* 8 cm of 2,6-diphenylene oxide polymer (Tenax)
		* 8 cm of silica gel
		* 7 cm of coconut charcoal
		* 0.5 cm of silanized glass wool at each end
	Tekmar 5	* 1 cm of methyl silicone packing (OV-1 coating)
		* 8 cm of 2,6-diphenylene oxide polymer (Tenax)
		* 8 cm of silica gel
		* 7 cm of coconut charcoal
		* 0.5 cm of silanized glass wool at each end
✓	Supelco K (Vocarb3000)	* 10 cm of Carbopack B (Graphitized Carbons)
		* 6 cm of Carboxen 1000 (Carbon molecular sieves)
		* 1 cm of Carboxen 1001 (Carbon molecular sieves)

CompuChem

a division of Liberty Analytical Corporation

CompuChem's Pagination Convention

As required by the current EPA CLP Statement of Work (SOW) (Document Number OLM04.0, plus revisions), data to be delivered must be paginated (by machine or hand). In the event that the initial numbering is incorrect (a page numbered twice or a page skipped, for example), it is CompuChem's policy to add in an alphabetic suffix to a page number when necessary (e.g., 100A, 100B, etc.).

CompuChem

a division of Liberty Analytical Corporation

Notification Regarding Manual Editing/Integration Flags

In some instances, manual adjustments to the software output are necessary to provide accurate data. These adjustments are performed by the data reviewer, GC/MS operator, or GC chemist. An Extracted Ion Current Profile (EICP) or a GC chromatographic peak has been provided for the manual integration of each compound to demonstrate the accuracy of that process. Adjustments are flagged on the quantitation report in the far right column beyond the FINAL concentration for GC/MS analysis, and in the "Flags" column for GC analysis. The manual editing/integration flags are:

M - Denotes that a manual integration has been performed for this compound. The manual integration was performed in order to provide the most accurate area count as possible for the peak.

H - Denotes that the data reviewer, GC/MS operator, or GC Chemist has chosen an alternate peak within the retention time window from that chosen by the software for that compound. No manual integration is performed in choosing an alternate peak. The software still performs the integration.

MH - Denotes that an alternate peak has been chosen within the retention time window from that chosen by the software for that compound and also a manual integration of the chosen peak has been performed. The manual integration was performed in order to provide the most accurate area count possible for the peak.

L - Denotes that the data reviewer or GC/MS operator has selected an alternate library search. This is typically done when an additional tentatively identified compound (TIC) has been added to the number of peaks searched. No manual integration is performed in choosing an alternate peak. The software still performs the integration.

ML - Denotes that an alternate library search has been selected and a manual integration has also been performed. This is typically done when an additional TIC has been added and the TIC peak also required a manual integration.

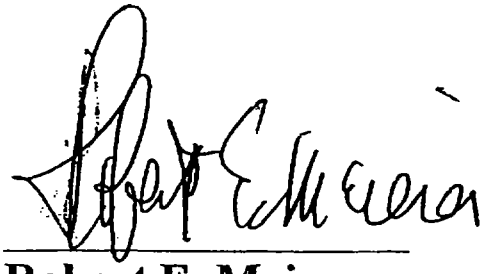
The EPA CLP SOW requires additional explanations for manual editing/integration. In the accompanying raw data packages, additional codes have been applied to the "M" flag and carry the following meanings;

M1 - The compound was not found by the automatic integration routine.

M2 - The compound was incorrectly integrated by the automatic integration routine.

M3 - The co-eluting compounds were incorrectly integrated by the automatic integration routine.

These codes will appear in the GC/MS and GC data packages.



Robert E. Meierer
Vice President

DATA REPORTING QUALIFIERS

On the Form I, under the column labeled "Q" for qualifier, each result is flagged with the specific data reporting qualifiers listed below, as appropriate. Up to five qualifiers may be reported on Form I for each compound. The qualifiers used are:

U : This flag indicates the compound was analyzed for but not detected. The Contract Required Quantitation Limit (CRQL), or reporting limit, will be adjusted to reflect any dilution and, for soils, the percent moisture.

J : This flag indicates an estimated value. The flag is used as detailed below:

1. When estimating a concentration for tentatively identified compounds (TICs) where a response factor of 1.0 is assumed for the TIC analyte,

2. When the mass spectral and retention time data indicate the presence of a compound that meets the volatile and semivolatile GC/MS identification criteria, and the result is less than the CRQL (or Reporting Limit) but greater than zero, and

3. When the retention time data indicate the presence of a compound that meets the pesticide/Aroclor or other GC or HPLC identification criteria, and the result is less than the CRQL (or Reporting Limit) but greater than zero. For example, if the CRQL (or Reporting Limit) is 10 µg/L, but a concentration of 3 µg/L is calculated, it is reported as 3J.

N : This flag indicates presumptive evidence of a compound. This flag is only used for TICs, where the identification is based on a mass spectral library search. For generic characterization of a TIC such as 'chlorinated hydrocarbon', the N flag is not used.

P : In the EPA's Contract Laboratory Program (CLP), this flag is used for a pesticide/Aroclor target analyte, when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form I and flagged with a P.
For SW-846 GC and HPLC analyses, when the Relative Percent Difference (RPD) is greater than 40% and there is no evidence of chromatographic anomalies or interferences, then the higher of the two values is reported and flagged with a P. When the RPD is equal to or less than 40%, our policy is to also report the higher of the two values, although the choice could be a project specific issue.

DATA REPORTING QUALIFIERS (continued)

C : This flag applies to GC or HPLC results where the identification has been confirmed by GC/MS. If GC/MS confirmation was attempted but was unsuccessful, this flag is not applied; a laboratory-defined flag is used instead (see the X/Y/Z qualifier.)

B : This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates probable blank contamination and warns the data user to take appropriate action. This flag is used for a TIC as well as for a positively identified target compound. The combination of flags BU or UB is not an allowable policy. Blank contaminants are flagged B only when they are detected in the sample.

E : This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis. If one or more compounds have a response greater than the upper level of the calibration range, the sample or extract will be diluted and reanalyzed. All such compounds with a response greater than the upper level of the calibration range will have the concentration flagged with an E on Form I for the original analysis.

D : If a sample or extract is reanalyzed at a higher dilution factor, for example when the concentration of an analyte exceeds the upper calibration range, the DL suffix is appended to the sample number on Form I for the more diluted sample, and all reported concentrations on that Form I are flagged with the D flag. This flag alerts data users that any discrepancies between the reported concentrations may be due to dilution of the sample or extract.

NOTE 1: The D flag is not applied to compounds which are not detected in the sample analysis i.e. compounds reported with the CRQL (or Reporting Limit) and the U flag.

NOTE 2: Separate Form Is are used for reporting the original analysis (Client Sample No. XXXXX) and the more diluted sample analysis (Client Sample No. XXXXXDL) i.e. the results from both analyses are not combined on a single Form I.

A : This flag indicates that a TIC is a suspected aldol-condensation product.

X/Y/Z : Other specific flags may be required to properly define the results. If used, the flags will be fully described in the SDG Narrative. The laboratory-defined flags are limited to X, Y and Z.

B. Chains-of-Custody

The laboratory shall include a copy of the Chain-of-Custody (CoC) documentation for all of the samples in the SDG. The CoC documents shall be arranged in increasing Client Sample ID number order, considering both letters and numbers.

№ 007698

Page 1 of 1

CompuChem
a division of Liberty Analytical Corp.

CHAIN OF CUSTODY

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information

Company Name: MWH
Address: 175 W. Jackson Blvd. Ste 1900
City: Chicago State: IL Zip: 60604
Project Contact: Amy Clore
Phone #: 312-831-3000
Sampler's Name: AClore / JFinger

Project Information

Project Name: ACS · Residential
Sampling Location: Griffith, IN
Turnaround time: Specified in W.O.
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or N
Are high concentrations expected? Y or N? If yes, which ID(s)?

Matrices
GW - Ground water
WW - Waste water
SW - Surface water
SO - Soil/Sediment
TB - Trip Blank
RI - Rinsate
WP - Wipe
O - Other

Lab Sample ID	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other NONE	Requested Analysis: VOCs (low conc.)	SVOCs (low conc)	Pest. /PCBs (low conc)	Metals	Cyanide	Matrices
782901	ACS-GW-PWA-26	9/23	1000	GW	9	3	1	1			4	✓	✓	✓	✓	✓	GW
782902	ACS-GW-PWDUP-26	9/23	1000	GW	9	3	1	1			4	✓	✓	✓	✓	✓	GW

MS 9/26/05

Lab Use Only — **Comments**

Sample Unpacked By: Jennifer Dover
Sample Order Entry By: Melissa Dover
Samples Received in Good Condition? Y or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or NA pH 10
625 & Phenol samples checked for chlorine? Y or NA
608 samples checked for pH between 5.0-9.0? Y or NA

Sample Custody

Relinquished by: Amy Clore	Date/Time: 9/23/05 1150	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by: Jennifer Dover	Date/Time: 9-26-05 9:00
Subcontact? Y or N If yes, where?		Custody Seal(s) intact? Y or N	On Ice? Y or N — Cooler Temp: 5.2, 5.7 °C

Samples stored 60 after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

№ 007712 79

CHAIN OF CUSTODY

CompuChem
a division of Liberty Analytical Corp.

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Page 1 of 1

Courier
Airbill No.
Sampling Complete? (Y) or N

Client Information

Company Name: MWH
Address: 175 W. Jackson Blvd. St 1900
City: Chicago State: IL Zip: 60604
Project Contact: Amy Clore
Phone #: 312-831-3000
Sampler's Name: J. Finger / A. Clore

Project Information

Project Name: ACS Residential GW
Sampling Location: Griffith, IN
Turnaround time: Specified in Work Plan
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or (N)
Are high concentrations expected? Y or N? If yes, which ID(s)? N

Requested Analysis (include method and bottle type)

Residential GW Complete

Matrices
GW - Ground water
WW - Waste water
SW - Surface water
SO - Soil/Sediment
TB - Trip Blank
RI - Rinsate
WP - Wipe
O - Other

	Field ID	Collection Date	Collection Time	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	MEOH	Other None	VOCs	SVOCs	Pest./PCBs	TAL Metals	Cyanide	
782903	ACS-GW-PWB-26	9/26	0830	GW	27	9	3	3			12	✓	✓	✓	✓	✓	<2 >12
782904	ACS-GW-PWT-26	9/26	0940	GW	9	3	1	1			4	✓	✓	✓	✓	✓	<2 >12
782905	ACS-GW-PWC-26	9/26	1020	GW	9	3	1	1			4	✓	✓	✓	✓	✓	<2 >12
782906	ACS-GW-PWTB-26	9/26	—	TB	1	1						✓					
782907	ACS-GW-PWD-26	9/26	1715	GW	9	3	1	1			4	✓	✓	✓	✓	✓	<2 >12

Laboratory Use Only / Comments

Sample Unpacked By: [signature]
Sample Order Entry By: [signature]
Samples Received in Good Condition? Y or (N)
If no, explain:

Cyanide samples checked for sulfide & chlorine? (Y) or NA
625 & Phenol samples checked for chlorine? Y or (NA)
608 samples checked for pH between 5.0-9.0? Y or (NA)

Comments:
Rec'd Broken
2-AL ACS GW-PWB-26 (1 Pest, 1 SVOC)
1-AL ACS GW-PWT-26 (SVOC)
1-

Sample Custody

Relinquished by: Amy Clore	Date/Time: 9/26/05 1800	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by: [signature]	Date/Time: 9-27-05 9:12
Subcontract? Y or (N) If yes, where?	Custody Seal(s) intact? Y or (N) cooler	On Ice? (Y) or N	Cooler Temp: 2.5 3.4, 2.0 2.3

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

CompuChem

a division of Liberty Analytical Corp.

WORKORDER SUMMARY REPORT

Workorder: 7829 **Account:** MWH **Project:** ACS
SDG-Case: ACS **Status:** CLOSED **QC Type:** CLIENT SPECIFIC MS/MSD
Report Style: COMPUCHEM STYLE 9 WITH EDD AND CD

SAMPLE ID	CLIENT ID	COLLECT DATE	RECEIVE DATE	DUE DATE	COMMENTS
782901	ACSGWPWA26	9/23/2005	9/26/2005	10/10/2005	PPS1002/TCL4 8260 25ML, OLC3.2 SVOAS & PEST/PCBS, METALS & CN
W	VW82-25TC4	VOC 8260B 25ML TCL4 WATER			
W	GW32PPTCL	PST/PCB OLC03.2 TCL WATER			
W	SW32TCL	SVOC OLC03.2 TCL WATER			
W	WW9012CN	CYANIDE 9010B/9012A WATER			
W	MW7470HG	MERCURY ONLY 7470A WATER			
W	MW6010TAL	METAL 6010B TAL WATER			
782902	ACSGWPWDUP2	9/23/2005	9/26/2005	10/10/2005	PPS1002/TCL4 8260 25ML, OLC3.2 SVOAS & PEST/PCBS, METALS & CN
W	VW82-25TC4	VOC 8260B 25ML TCL4 WATER			
W	GW32PPTCL	PST/PCB OLC03.2 TCL WATER			
W	SW32TCL	SVOC OLC03.2 TCL WATER			
W	MW7470HG	MERCURY ONLY 7470A WATER			
W	WW9012CN	CYANIDE 9010B/9012A WATER			
W	MW6010TAL	METAL 6010B TAL WATER			
782903	ACSGWPWB26	9/26/2005	9/27/2005	10/10/2005	**USE FOR QC**PPS1002/TCL4 8260 25ML, OLC3.2 SVOAS & PEST/PCBS, METALS & CN
W	VW82-25TC4	VOC 8260B 25ML TCL4 WATER			
W	GW32PPTCL	PST/PCB OLC03.2 TCL WATER			
W	MW6010TAL	METAL 6010B TAL WATER			
W	SW32TCL	SVOC OLC03.2 TCL WATER			
W	MW7470HG	MERCURY ONLY 7470A WATER			
W	QCW-32PP	QC-OLC03.2 PP WATER			
W	QCW-6010	QC-6010B METALS WATER			
W	QCW-7470HG	QC-7470 HG WATER			
W	QCW-9012CN	QC-9012 CYANIDE WATER			
W	QCW-826025	QC-8260B 25ML VOC WATER			
W	QCW-32SV	QC-OLC03.2 SVOC WATER			
W	WW9012CN	CYANIDE 9010B/9012A WATER			
782904	ACSGWPWT26	9/26/2005	9/27/2005	10/10/2005	PPS1002/TCL4 8260 25ML, OLC3.2 SVOAS & PEST/PCBS, METALS & CN

CompuChem

a division of Liberty Analytical Corp.

WORKORDER SUMMARY REPORT

Workorder: 7829 **Account:** MWH **Project:** ACS
SDG-Case: ACS **Status:** CLOSED **QC Type:** CLIENT SPECIFIC MS/MSD
Report Style: COMPUCHEM STYLE 9 WITH EDD AND CD

SAMPLE ID	CLIENT ID	COLLECT DATE	RECEIVE DATE	DUE DATE	COMMENTS
W	VW82-25TC4	VOC 8260B 25ML TCL4 WATER			
W	GW32PPTCL	PST/PCB OLC03.2 TCL WATER			
W	SW32TCL	SVOC OLC03.2 TCL WATER			
W	WW9012CN	CYANIDE 9010B/9012A WATER			
W	MW7470HG	MERCURY ONLY 7470A WATER			
W	MW6010TAL	METAL 6010B TAL WATER			
782905	ACSGWPWC26	9/26/2005	9/27/2005	10/10/2005	PPS1002/TCL4 8260 25ML, OLC3.2 SVOAS & PEST/PCBS, METALS & CN
W	VW82-25TC4	VOC 8260B 25ML TCL4 WATER			
W	GW32PPTCL	PST/PCB OLC03.2 TCL WATER			
W	SW32TCL	SVOC OLC03.2 TCL WATER			
W	MW7470HG	MERCURY ONLY 7470A WATER			
W	WW9012CN	CYANIDE 9010B/9012A WATER			
W	MW6010TAL	METAL 6010B TAL WATER			
782906	ACSGWPWTB26	9/26/2005	9/27/2005	10/10/2005	PPS1002/TCL4 8260 25ML;TRIP BLANK**
W	VW82-25TC4	VOC 8260B 25ML TCL4 WATER			
782907	ACSGWPWD26	9/26/2005	9/27/2005	10/10/2005	PPS1002/TCL4 8260 25ML, OLC3.2 SVOAS & PEST/PCBS, METALS & CN
W	VW82-25TC4	VOC 8260B 25ML TCL4 WATER			
W	GW32PPTCL	PST/PCB OLC03.2 TCL WATER			
W	SW32TCL	SVOC OLC03.2 TCL WATER			
W	MW6010TAL	METAL 6010B TAL WATER			
W	MW7470HG	MERCURY ONLY 7470A WATER			
W	WW9012CN	CYANIDE 9010B/9012A WATER			

CompuChem, a Division of Liberty Analytical

INTERNAL CHAIN OF CUSTODY

Laboratory: Volatiles Matrix: W

Request Date: 9/26/2005 Batch 14720

Comments:

	CCN	Receipt	Analysis Param	Container	Preservative	Bottle
1	782901	9/26/2005	VW8260_25X	40MLVIAL	HCL	782901-1
2	782902	9/26/2005	VW8260_25X	40MLVIAL	HCL	782902-1

Relinquished By:	Received By:	Date/Time	Reason
[signature]	[signature]	9-27-5 / 21:30	[signature]
[signature]	[signature]	9-27-5 / 22:45	[signature]

Monday, September 26, 2005

CompuChem, a Division of Liberty Analytical

INTERNAL CHAIN OF CUSTODY

Laboratory: Volatiles Matrix: W

Request Date: 9/30/2005 Batch 14733

Comments:

	CCN	Receipt	Analysis Param	Container	Preservative	Bottle
1	782906	9/27/2005	VW8260_25X	40MLVIAL	HCL	782906-1
2	782903	9/27/2005	VW8260_25X	40MLVIAL	HCL	782903-1
3	782903	9/27/2005	VW8260_25X	250ML_PL	NaOH	782903-25
4	782904	9/27/2005	VW8260_25X	40MLVIAL	HCL	782904-1
5	782905	9/27/2005	VW8260_25X	40MLVIAL	HCL	782905-1
6	782907	9/27/2005	VW8260_25X	40MLVIAL	HCL	782907-1

Relinquished By:	Received By:	Date/Time	Reason

Friday, September 30, 2005

C. SDG Data

1. QC Summary
2. Sample Data
3. Standards Data
4. Raw QC Data

LAB CODE : LIBRTY METHOD: 8260B

CASE # : _____ SDG # : 7829

1. QC Summary

a. Surrogate Recovery Summary (Form II VOA)

b. Spike Summary - MS / MSD / LCS
(Form III VOA)

c. Method Blank Summary (Form IV VOA)

d. GC/MS Instrument Performance Check
(Form V VOA)

e. Internal Standard Area and RT Summary
(Form VIII VOA)

a. Surrogate Recovery Summary

(Form II VOA)

FORM 2
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

	CLIENT SAMPLE NO.	SMC1 (DBF) #	SMC2 (DCE) #	SMC3 (TOL) #	SMC4 (BFB) #	TOT OUT
01	VBLKCG	105	96	98	100	0
02	VCVLCS	90	89	86	79	0
03	ACSGWPWA26	91	99	97	105	0
04	ACSGWPWDUP26	96	100	102	102	0
05	VBLKED	105	101	101	97	0
06	VEDLCS	99	94	102	104	0
07	ACSGWPWTB26	105	96	101	104	0
08	ACSGWPWB26	86	99	99	98	0
09	ACSGWPWT26	94	103	98	106	0
10	ACSGWPWC26	95	104	99	101	0
11	ACSGWPWD26	84	94	102	102	0
12	VBLKDJ	97	97	98	103	0
13	VDJLCS	102	103	100	102	0
14	ACSGWPWB26MS	105	105	98	100	0
15	ACSGWPWB26MS	85	103	100	105	0
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						

		QC LIMITS
SMC1 (DBF)	= Dibromofluoromethane	(65-150)
SMC2 (DCE)	= 1,2-Dichloroethane-d4	(59-150)
SMC3 (TOL)	= Toluene-d8	(61-145)
SMC4 (BFB)	= Bromofluorobenzene	(63-143)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

b. Spike Summary - MS / MSD / LCS (Form III VOA)

FORM 3
WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

ab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix Spike - Sample No.: ACSGWPWB26

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	5	0.0	3.989	80	50-150
Benzene	5	0.0	4.409	88	76-134
Trichloroethene	5	0.0	3.861	77	71-143
Toluene	5	0.3156	4.177	77	70-137
Chlorobenzene	5	0.0	4.145	83	74-136

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	5	5.392	108	30*	14	50-150
Benzene	5	5.012	100	13*	11	76-134
Trichloroethene	5	4.422	88	14	14	71-143
Toluene	5	5.2	98	22*	13	70-137
Chlorobenzene	5	4.913	98	17*	13	74-136

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

* Values outside of QC limits

RPD: 4 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS: _____

3A
WATER VOLATILE LAB CONTROL SAMPLE

VCVLCS

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	5	3.817	76	50-150
Benzene	5	4.408	88	76-134
Trichloroethene	5	3.923	78	71-143
Toluene	5	4.238	85	70-137
Chlorobenzene	5	4.314	86	74-136

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

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS: _____

FORM III VOA-1

3A
WATER VOLATILE LAB CONTROL SAMPLE

VEDLCS

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	5	4.564	91	50-150
Benzene	5	4.586	92	76-134
Trichloroethene	5	4.482	90	71-143
Toluene	5	4.53	91	70-137
Chlorobenzene	5	4.506	90	74-136

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

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS: _____

FORM III VOA-1

3A
WATER VOLATILE LAB CONTROL SAMPLE

VDJLCS

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	5	4.533	91	50-150
Benzene	5	4.9	98	76-134
Trichloroethene	5	4.661	93	71-143
Toluene	5	4.724	94	70-137
Chlorobenzene	5	4.742	95	74-136

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

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

c. Method Blank Summary (Form IV VOA)

If more than a single form is necessary, forms shall be arranged in chronological order by date of analysis of the blanks, by instrument.

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO

VBLKCG

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Lab File ID: 80800RB61_7829 Lab Sample ID: 80800

Date Analyzed: 09/27/05 Time Analyzed: 2128

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: 5973HP61

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

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VCVLCS	80886	80886B61_782	2225
02	ACSGWPWA26	782901	782901B61	0442
03	ACSGWPWDUP26	782902	782902B61	0505
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO

VBLKED

ab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Lab File ID: 81179RB61_7829 Lab Sample ID: 81179

Date Analyzed: 09/28/05 Time Analyzed: 1750

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: 5973HP61

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

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VEDLCS	81182	81182B61_782	1813
02	ACSGWPWTB26	782906	782906B61	2250
03	ACSGWPWB26	782903	782903B61	2313
04	ACSGWPWT26	782904	782904B61	0043
05	ACSGWPWC26	782905	782905B61	0105
06	ACSGWPWD26	782907	782907B61	0128
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO

VBLKDJ

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Lab File ID: 81062RA61_7829 Lab Sample ID: 81062

Date Analyzed: 09/29/05 Time Analyzed: 1520

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: 5973HP61

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

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VDJLCS	81065	81065A61_782	1543
02	ACSGWPWB26MS	81068	81068RA61	1731
03	ACSGWPWB26MS	81069	81069RA61	1754
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

d. GC/MS Instrument Performance Check (Form V VOA)

If more than a single form is necessary, forms shall be arranged in chronological order, by instrument.

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Lab File ID: BG050927B61 BFB Injection Date: 09/27/05

Instrument ID: 5973HP61 BFB Injection Time: 1713

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.0
75	30.0 - 60.0% of mass 95	42.6
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.3
173	Less than 2.0% of mass 174	0.1 (0.1)1
174	Greater than 50.0% of mass 95	93.7
175	5.0 - 9.0% of mass 174	6.9 (7.3)1
176	95.0 - 101.0% of mass 174	89.5 (95.5)1
177	5.0 - 9.0% of mass 176	6.2 (6.9)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD0.5	VSTD0.5	CV050927B61	09/27/05	1812
02	VSTD001	VSTD001	CW050927B61	09/27/05	1839
03	VSTD005	VSTD005	CX050927B61	09/27/05	1907
04	VSTD010	VSTD010	CY050927B61	09/27/05	1934
05	VSTD025	VSTD025	CZ050927B61	09/27/05	2002
06	VBLKCG	80800	80800RB61_7829	09/27/05	2128
07	VCVLCS	80886	80886B61_7829	09/27/05	2225
08	ACSGWPWA26	782901	782901B61	09/28/05	0442
09	ACSGWPWDUP26	782902	782902B61	09/28/05	0505
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: [illegible] Case No.: SAS No.: SDG No.: 7829

Lab File ID: RP050928B61 BFB Injection Date: 09/28/05

Instrument ID: 5973HP61 BFB Injection Time: 1634

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.6
75	30.0 - 60.0% of mass 95	42.6
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.6 (0.6)1
174	Greater than 50.0% of mass 95	95.1
175	5.0 - 9.0% of mass 174	6.8 (7.1)1
176	95.0 - 101.0% of mass 174	92.2 (97.0)1
177	5.0 - 9.0% of mass 176	6.1 (6.6)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD005	VSTD005	CT050928B61	09/28/05	1658
02	VBLKED	81179	81179RB61_7829	09/28/05	1750
03	VEDLCS	81182	81182B61_7829	09/28/05	1813
04	ACSGWPWTB26	782906	782906B61	09/28/05	2250
05	ACSGWPWB26	782903	782903B61	09/28/05	2313
06	ACSGWPWT26	782904	782904B61	09/29/05	0043
07	ACSGWPWC26	782905	782905B61	09/29/05	0105
08	ACSGWPWD26	782907	782907B61	09/29/05	0128
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Lab File ID: BF050929A61 BFB Injection Date: 09/29/05

Instrument ID: 5973HP61 BFB Injection Time: 1413

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.5
75	30.0 - 60.0% of mass 95	42.2
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.3 (0.3)1
174	Greater than 50.0% of mass 95	91.1
175	5.0 - 9.0% of mass 174	6.2 (6.8)1
176	95.0 - 101.0% of mass 174	87.7 (96.3)1
177	5.0 - 9.0% of mass 176	5.6 (6.4)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD005	VSTD005	CS050929A61	09/29/05	1429
02	VBLKDJ	81062	81062RA61_7829	09/29/05	1520
03	VDJLCS	81065	81065A61_7829	09/29/05	1543
04	ACSGWPWB26MS	81068	81068RA61	09/29/05	1731
05	ACSGWPWB26MS	81069	81069RA61	09/29/05	1754
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

e. Internal Standard Area and RT Summary (Form VIII VOA)

If more than a single form is necessary, forms shall be arranged in chronological order, by instrument.

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Lab File ID (Standard): CX050927B61 Date Analyzed: 09/27/05

Instrument ID: 5973HP61 Time Analyzed: 1907

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

		IS1(FBZ) AREA #	RT #	IS2(CBZ) AREA #	RT #	IS3(DCB) AREA #	RT #
	12 HOUR STD	211398	3.52	161698	5.07	88664	5.90
	UPPER LIMIT	422796	4.02	323396	5.57	177328	6.40
	LOWER LIMIT	105699	3.02	80849	4.57	44332	5.40
	CLIENT SAMPLE NO.						
01	VBLKCG	274913	3.52	214217	5.07	115398	5.90
02	VCVLCS	221126	3.52	164362	5.07	92265	5.90
03	ACSGWPWA26	304687	3.52	237556	5.07	123855	5.90
04	ACSGWPWDUP26	292209	3.52	226360	5.07	122387	5.91
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

IS1 (FBZ) = Fluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column 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: COMPUCHEM Contract: 8260B

Lab File ID: LIBERTY Case No.: SAS No.: SDG No.: 7829

Lab Sample ID (Standard): CT050928B61 Date Analyzed: 09/28/05

Instrument ID: 5973HP61 Time Analyzed: 1658

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

		IS1(FBZ) AREA #	RT #	IS2(CBZ) AREA #	RT #	IS3(DCB) AREA #	RT #
	12 HOUR STD	294195	3.52	229865	5.07	124584	5.90
	UPPER LIMIT	588390	4.02	459730	5.57	249168	6.40
	LOWER LIMIT	147098	3.02	114932	4.57	62292	5.40
	CLIENT SAMPLE NO						
01	[illegible]	291026	3.52	223479	5.07	125328	5.91
02	VE0LCS	289212	3.52	219660	5.07	118670	5.91
03	ACSGWPWTB26	272688	3.52	205470	5.07	110696	5.91
04	ACSGWPWE26	290904	3.52	228882	5.07	123109	5.91
05	ACSGWPWT2[illegible]	293230	3.52	234875	5.07	120610	5.91
06	ACSGWPWC26	291834	3.52	230438	5.07	125072	5.91
07	ACSGWPWD26	287181	3.52	220363	5.07	115821	5.91
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

IS1 (FBZ) = Fluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column 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: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Lab File (Standard): CS050929A61 Date Analyzed: 09/29/05

Instrument ID: 5973HP61 Time Analyzed: 1429

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 (FBZ) AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (DCB) AREA #	RT #
1 HOUR STD	404740	3.52	298322	5.07	155034	5.91
UPPER LIMIT	809480	4.02	596644	5.57	310068	6.41
LOWER LIMIT	202370	3.02	149161	4.57	77517	5.41
CLIENT SAMPLE NO.						
01 [illegible]	354716	3.52	272697	5.07	146580	5.91
02 VD[illegible]CS	351496	3.52	269947	5.07	143677	5.91
03 [illegible]SGWPWB26MS	329301	3.52	267201	5.07	143801	5.91
04 [illegible]SGWPWB26MS	342584	3.52	261475	5.07	137256	5.91
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

IS1 (FBZ) = Fluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

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

FORM VIII VOA

2. Sample Data

Sample data shall be arranged in packets with the Organic Analysis Data Sheet (Form I VOA and Form I VOA-TIC), followed by the raw data for volatile samples. These sample packets shall be placed in increasing Client Sample ID number order, considering both letters and numbers.

a. Target Analyte Results (Form I VOA)
Tabulated results (identification and quantitation) shall be included.

b. Tentatively Identified Compounds (Form I VOA-TIC)
Lists the client specified number of organic compounds that are non-surrogate/non-internal standard compounds and are not listed on the target compound list. This form shall be included even if no compounds are found.

c. Reconstructed Ion Chromatograms
Include for each sample or sample extract, including dilutions and reanalyses. The RIC shall contain the following header information: Client Sample ID number, date and time of analysis, GC/MS instrument identifier, lab file identifier, and analyst ID.

d. Quantitation Report showing calculations for target analytes
- Include a printout of the Enhanced Ion Current Profile (EICP) for all manual changes to all compounds, internal standards, and surrogate compounds.

e. Copies of raw spectra and copies of background-subtracted mass spectra of target analytes identified in the sample.
- The spectra shall include the following information: Client Sample ID number, Lab file ID, date and time of analysis, and instrument ID.
- The compound name must be clearly marked.

f. Quantitation Report showing calculations for TICs

g. Copies of mass spectra of organic compounds not listed on the target compound list (TICs) with associated best-match spectra.
- The spectra shall be labeled as follows: Client Sample ID number, lab file ID, date and time of analysis, and instrument ID.
- The compound name must be clearly marked.

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWPWA26

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 782901

Sample wt/vol: 25 (g/ml) ML Lab File ID: 782901B61

Level: (low/med) LOW Date Received: 09/26/05

% Moisture: not dec. _____ Date Analyzed: 09/28/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
75-15-0	Carbon disulfide	0.50	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	0.50	U
67-64-1	Acetone	2.5	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene Chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl-tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-butanone	2.5	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	2.5	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-hexanone	2.5	U
124-48-1	Dibromochloromethane	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWPWA26

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 782901

Sample wt/vol: 25 (g/ml) ML Lab File ID: 782901B61

Level: (low/med) LOW Date Received: 09/26/05

% Moisture: not dec. _____ Date Analyzed: 09/28/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
108-38-3	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropyl Benzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-Chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
110-82-7	Cyclohexane	0.50	U
108-87-2	Methylcyclohexane	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWPWA26

Lab Name: COMPUCHEM   Contract: 8260B

Lab Code: LIBRTY   Case No.:   SAS No.:   SDG No.: 7829

Matrix: (soil/water) WATER   Lab Sample ID: 782901

Sample wt/vol: 25 (g/ml) ML   Lab File ID: 782901B61

Level: (low/med) LOW   Date Received: 09/26/05

% Moisture: not dec. ________   Date Analyzed: 09/28/05

GC Column: RTX-VMS ID: 0.18 (mm)   Dilution Factor: 1.0

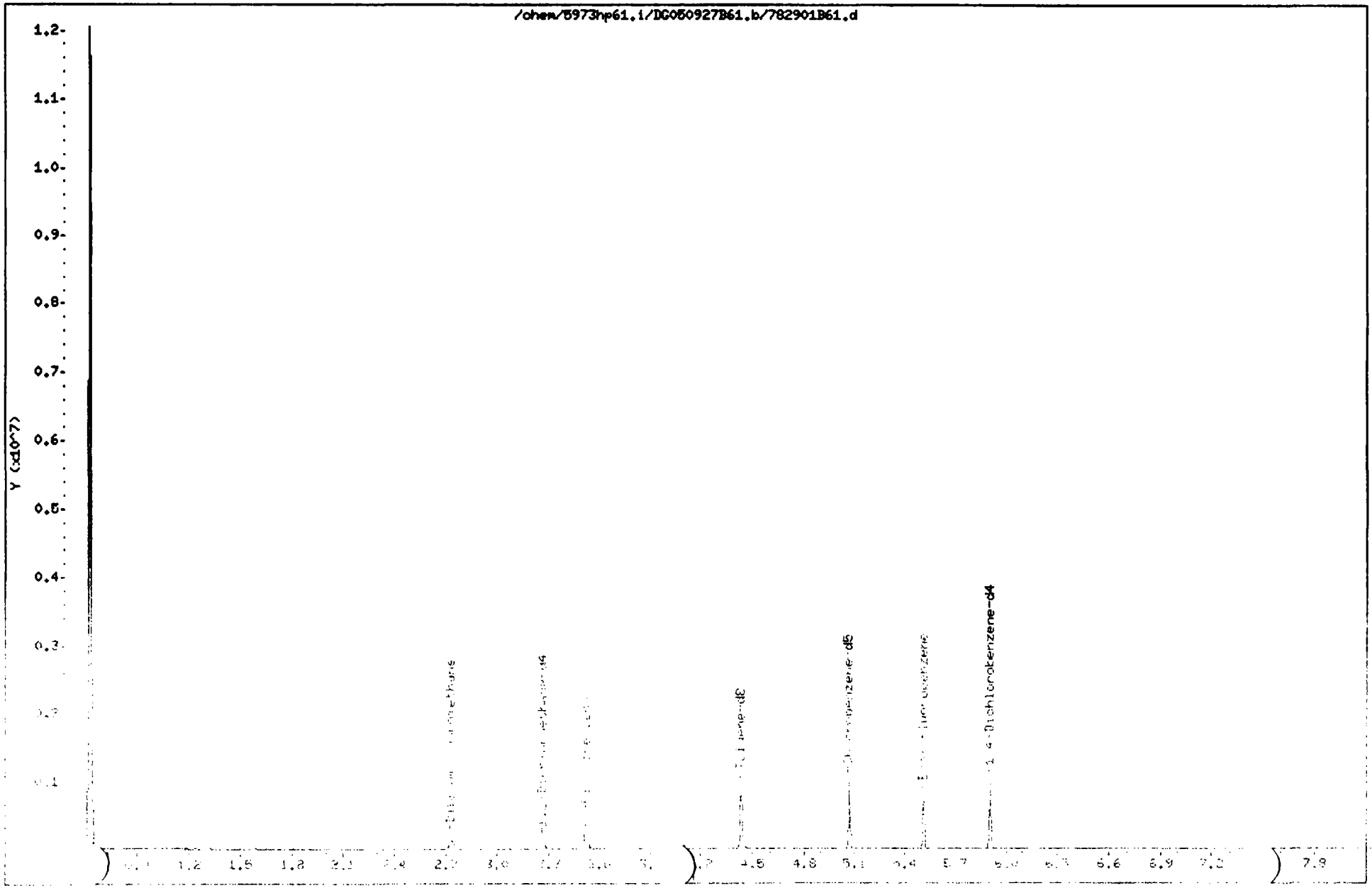
Soil Extract Volume: ________ (uL)   Soil Aliquot Volume: ________ (uL)

Number TICs found: 0   CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I VOA-TIC

Data File: /chem/5973hp61.i/DC050927B61.b/782901B61.d
Date : 28-SEP-2005 04:42
Client ID: ACSGWPWA26 Instrument: 5973hp61.i
Sample Info: 782901;2323
Purge Volume: 25.0 Operator: 2323
Column phase: RTX-VMS Column diameter: 0.18



Data File: /chem/5973hp61.i/DG050927B61.b/782901B61.d
Report Date: 28-Sep-2005 03:37

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5973hp61.i/DG050927B61.b/782901B61.d
Lab Smp Id: 782901 Client Smp ID: ACSGWPWA26
Inj Date : 28-SEP-2005 04:42
Operator : 2323 Inst ID: 5973hp61.i
Smp Info : 782901:2323
Misc Info : 61
Comment :
Method : /chem/5973hp61.i/DG050927B61.b/W8260-B-25MLv9.m
Meth Date : 28-Sep-2005 02:50 fertile Quant Type: ISTD
Cal Date : 27-SEP-2005 20:02 Cal File: CZ050927B61.d
Als bottle: 64
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TCL4.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	volume of water
DF	1.00000	dilution factor

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
*	1 Fluorobenzene	96	3.522	3.517	(1.000)	304687	125.000	
*	2 Chlorobenzene-d5	117	5.068	5.069	(1.000)	237556	125.000	
*	3 1,4-Dichlorobenzene-d4	152	5.901	5.907	(1.000)	123855	125.000	
$	4 Dibromofluoromethane	113	2.739	2.739	(0.777)	75701	113.255	4.5
$	5 1,2-Dichloroethane-d4	65	3.272	3.267	(0.929)	55456	123.800	5.0
$	6 Toluene-d8	98	4.437	4.437	(0.875)	286415	120.755	4.8
$	7 Bromofluorobenzene	95	5.515	5.515	(0.934)	108393	130.637	5.2
	8 Dichlorodifluoromethane	85	Compound Not Detected.					
	9 Chloromethane	50	Compound Not Detected.					
	10 Vinyl Chloride	62	Compound Not Detected.					
	11 Bromomethane	94	Compound Not Detected.					
	12 Chloroethane	64	Compound Not Detected.					
	13 Trichlorofluoromethane	101	Compound Not Detected.					
	16 1,1-Dichloroethene	96	Compound Not Detected.					
	18 Acetone	43	Compound Not Detected.					
	20 1,1,2-trichloro-1,2,2-trifluo	85	Compound Not Detected.					

Data File: /chem/5973hp61.i/DG050927B61.b/782901B61.d
Report Date: 28-Sep-2005 03:37

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
21	Carbon disulfide	76	Compound Not Detected.					
163	Methyl acetate	43	Compound Not Detected.					
24	Methylene Chloride	84	Compound Not Detected.					
27	trans-1,2-Dichloroethene	96	Compound Not Detected.					
28	Methyl-tert-butyl ether	73	Compound Not Detected.					
30	1,1-Dichloroethane	63	Compound Not Detected.					
34	cis-1,2-Dichloroethene	96	Compound Not Detected.					
37	2-butanone	43	Compound Not Detected.					
42	Chloroform	83	Compound Not Detected.					
43	1,1,1-Trichloroethane	97	Compound Not Detected.					
44	Cyclohexane	84	Compound Not Detected.					
48	Carbon Tetrachloride	117	Compound Not Detected.					
49	1,2-Dichloroethane	62	Compound Not Detected.					
51	Benzene	78	Compound Not Detected.					
53	Trichloroethene	130	Compound Not Detected.					
54	Methylcyclohexane	83	Compound Not Detected.					
55	1,2-Dichloropropane	63	Compound Not Detected.					
59	Bromodichloromethane	83	Compound Not Detected.					
61	cis-1,3-Dichloropropene	75	Compound Not Detected.					
62	4-Methyl-2-pentanone	43	Compound Not Detected.					
63	Toluene	92	Compound Not Detected.					
64	trans-1,3-Dichloropropene	75	Compound Not Detected.					
65	1,1,2-Trichloroethane	97	Compound Not Detected.					
68	Tetrachloroethene	164	Compound Not Detected.					
	2-hexanone	43	Compound Not Detected.					
0	Dibromochloromethane	129	Compound Not Detected.					
71	1,2-Dibromoethane	107	Compound Not Detected.					
72	Chlorobenzene	112	Compound Not Detected.					
75	Ethylbenzene	106	Compound Not Detected.					
76	m,p-Xylene	106	Compound Not Detected.					
77	o-Xylene	106	Compound Not Detected.					
78	Styrene	104	Compound Not Detected.					
79	Bromoform	173	Compound Not Detected.					
81	Isopropyl Benzene	105	Compound Not Detected.					
82	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
94	1,3-Dichlorobenzene	146	Compound Not Detected.					
96	1,4-Dichlorobenzene	146	Compound Not Detected.					
98	1,2-Dichlorobenzene	146	Compound Not Detected.					
101	1,2-Dibromo-3-Chloropropane	75	Compound Not Detected.					
102	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
M 107	Xylene (total)	106	Compound Not Detected.					

Data File: /chem/5973hp61.i/DG050927B61.b/782901B61.d
Report Date: 28-Sep-2005 03:37

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5973hp61.i/DG050927B61.b/782901B61.d
Lab Smp Id: 782901 Client Smp ID: ACSGWPWA26
Inj Date : 28-SEP-2005 04:42
Operator : 2323 Inst ID: 5973hp61.i
Smp Info : 782901:2323
Misc Info : 61
Comment :
Method : /chem/5973hp61.i/DG050927B61.b/W8260-B-25MLv9.m
Meth Date : 28-Sep-2005 02:50 fertile Quant Type: ISTD
Cal Date : 27-SEP-2005 20:02 Cal File: CZ050927B61.d
Als bottle: 64
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TCL4.sub
Target Version: 3.50

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWPWB26

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 782903

Sample wt/vol: 25 (g/ml) ML Lab File ID: 782903B61

Level: (low/med) LOW Date Received: 09/27/05

% Moisture: not dec. _____ Date Analyzed: 09/28/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
75-15-0	Carbon disulfide	0.50	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	0.50	U
67-64-1	Acetone	2.5	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene Chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl-tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.38	J
78-93-3	2-butanone	2.5	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	2.5	U
108-88-3	Toluene	0.32	J
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-hexanone	2.5	U
124-48-1	Dibromochloromethane	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWPWB26

COMPUCHEM Method: 8260B

Case No.: SAS No.: SDG No.: 7829

(water) WATER Lab Sample ID: 782903

25 (g/ml) ML Lab File ID: 782903B61

(low/med) LOW Date Received: 09/27/05

% Moisture: not dec. _____ Date Analyzed: 09/28/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
[illegible]	1,2-Dibromoethane	0.50	U
[illegible]	Chlorobenzene	0.50	U
[illegible]	Ethylbenzene	0.50	U
[illegible]	m,p-Xylene	0.54	J
[illegible]	o-Xylene	0.50	U
[illegible]	Styrene	0.50	U
[illegible]	Bromoform	0.50	U
[illegible]	Isopropyl Benzene	0.50	U
[illegible]	1,1,2,2-Tetrachloroethane	0.50	U
[illegible]	1,3-Dichlorobenzene	0.50	U
[illegible]	1,4-Dichlorobenzene	0.50	U
[illegible]	1,2-Dichlorobenzene	0.50	U
[illegible]	1,2-Dibromo-3-Chloropropane	0.50	U
[illegible]	1,2,4-Trichlorobenzene	0.50	U
[illegible]	Xylene (total)	0.57	
[illegible]	Cyclohexane	0.50	U
[illegible]	Methylcyclohexane	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWPWB26

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 782903

Sample wt/vol: 25 (g/ml) ML Lab File ID: 782903B61

Level: (low/med) LOW Date Received: 09/27/05

% Moisture: not dec. _____ Date Analyzed: 09/28/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

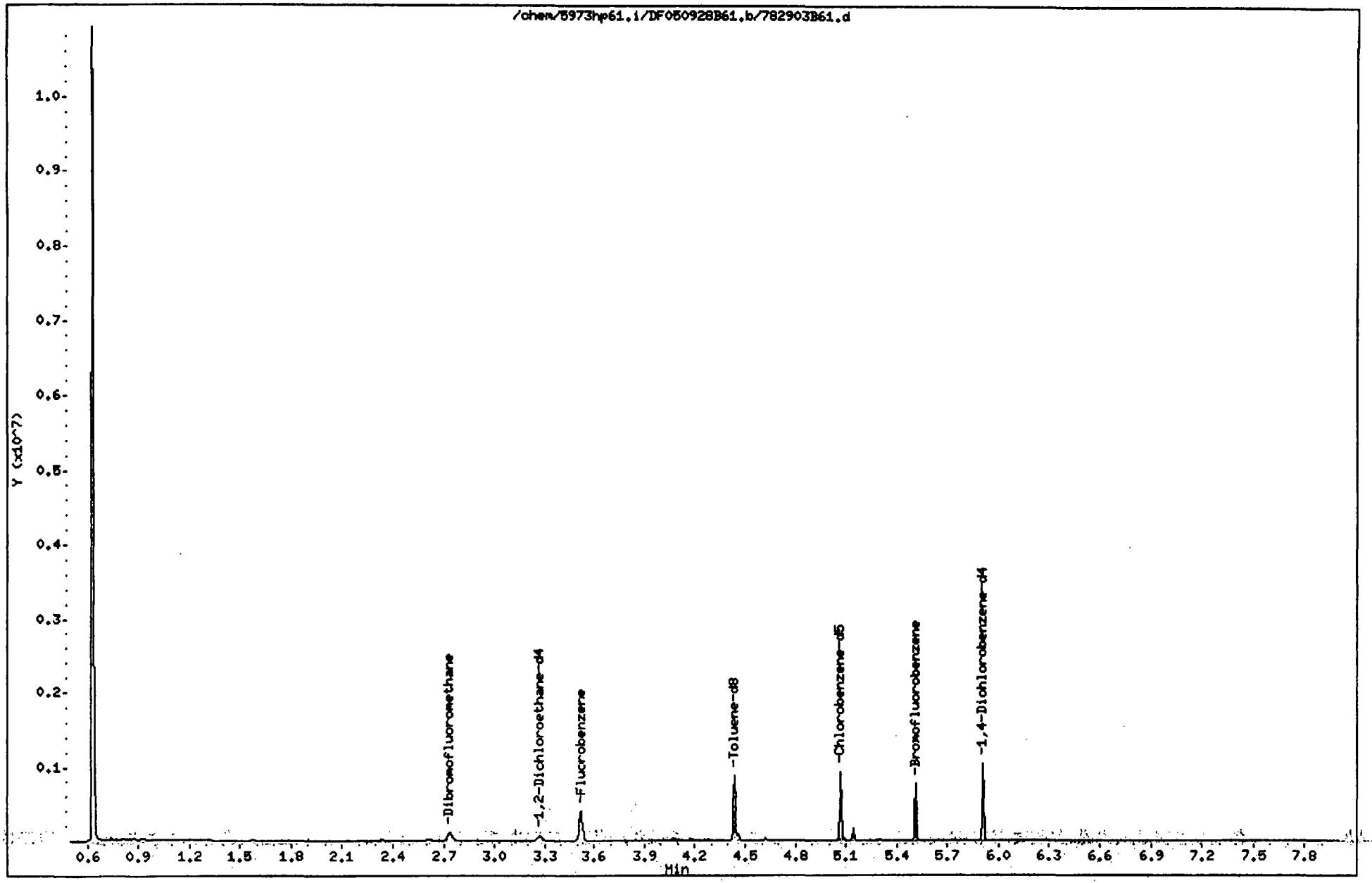
Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I VOA-TIC

Data File: /chem/5973hp61.i/DF050928B61.b/782903B61.d
Date : 28-SEP-2005 23:13
Client ID: ACSGWPWB26
Sample Info: 782903;2323
Purge Volume: 25.0
Column phase: RTX-VMS

Instrument: 5973hp61.i
Operator: 2323
Column diameter: 0.18



Data File: /chem/5973hp61.i/DF050928B61.b/782903B61.d
Report Date: 29-Sep-2005 01:45

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5973hp61.i/DF050928B61.b/782903B61.d
Lab Smp Id: 782903 Client Smp ID: ACSGWPWB26
Inj Date : 28-SEP-2005 23:13
Operator : 2323 Inst ID: 5973hp61.i
Smp Info : 782903:2323
Misc Info : 61
Comment :
Method : /chem/5973hp61.i/DF050928B61.b/W8260-B-25MLv9.m
Meth Date : 29-Sep-2005 00:48 fertile Quant Type: ISTD
Cal Date : 27-SEP-2005 20:02 Cal File: CZ050927B61.d
Als bottle: 21
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TCL4.sub
Target Version: 3.50
Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	volume of water
DF	1.00000	dilution factor

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
*	1 Fluorobenzene	96	3.523	3.517	(1.000)	290904	125.000	
*	2 Chlorobenzene-d5	117	5.069	5.069	(1.000)	228882	125.000	
*	3 1,4-Dichlorobenzene-d4	152	5.907	5.901	(1.000)	123109	125.000	
$	4 Dibromofluoromethane	113	2.739	2.733	(0.777)	68334	107.077	4.3
$	5 1,2-Dichloroethane-d4	65	3.272	3.267	(0.929)	53178	124.339	5.0
$	6 Toluene-d8	98	4.437	4.437	(0.875)	283331	123.982	5.0
$	7 Bromofluorobenzene	95	5.515	5.510	(0.934)	101431	122.987	4.9
	8 Dichlorodifluoromethane	85	Compound Not Detected.					
	9 Chloromethane	50	Compound Not Detected.					
	10 Vinyl Chloride	62	Compound Not Detected.					
	11 Bromomethane	94	Compound Not Detected.					
	12 Chloroethane	64	Compound Not Detected.					
	13 Trichlorofluoromethane	101	Compound Not Detected.					
	14 1,1-Dichloroethene	96	Compound Not Detected.					
	15 Acetone	43	Compound Not Detected.					

Data File: /chem/5973hp61.i/DF050928B61.b/782903B61.d
Report Date: 29-Sep-2005 01:45

	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
trifluo	85	Compound Not Detected.					
	76	Compound Not Detected.					
	43	Compound Not Detected.					
	84	Compound Not Detected.					
ethane	96	Compound Not Detected.					
	73	Compound Not Detected.					
	63	Compound Not Detected.					
	96	2.336	2.336	(0.663)	8215	9.50430	0.38(a)
	43	Compound Not Detected.					
	83	Compound Not Detected.					
	97	Compound Not Detected.					
	84	Compound Not Detected.					
	117	Compound Not Detected.					
	62	Compound Not Detected.					
	78	Compound Not Detected.					
	130	Compound Not Detected.					
	83	Compound Not Detected.					
	63	Compound Not Detected.					
	83	Compound Not Detected.					
	75	Compound Not Detected.					
	43	Compound Not Detected.					
	92	4.459	4.459	(0.880)	16548	7.89033	0.32(a)
propene	75	Compound Not Detected.					
	97	Compound Not Detected.					
	164	Compound Not Detected.					
	43	Compound Not Detected.					
hane	129	Compound Not Detected.					
	107	Compound Not Detected.					
	112	Compound Not Detected.					
	106	Compound Not Detected.					
	106	5.145	5.145	(1.015)	21730	13.3987	0.54(a)
	106	Compound Not Detected.					
	104	Compound Not Detected.					
	173	Compound Not Detected.					
	105	Compound Not Detected.					
Name	83	Compound Not Detected.					
	146	Compound Not Detected.					
	146	Compound Not Detected.					
	146	Compound Not Detected.					
ropane	75	Compound Not Detected.					
ene	180	Compound Not Detected.					
M	106				21730	14.1836	0.57

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: [illegible] 5973hp61.i/DF050928B61.b/782903B61.d

Date [illegible] 28-SEP-2005 [illegible]:13

[illegible]

[illegible]

[illegible]

[illegible]

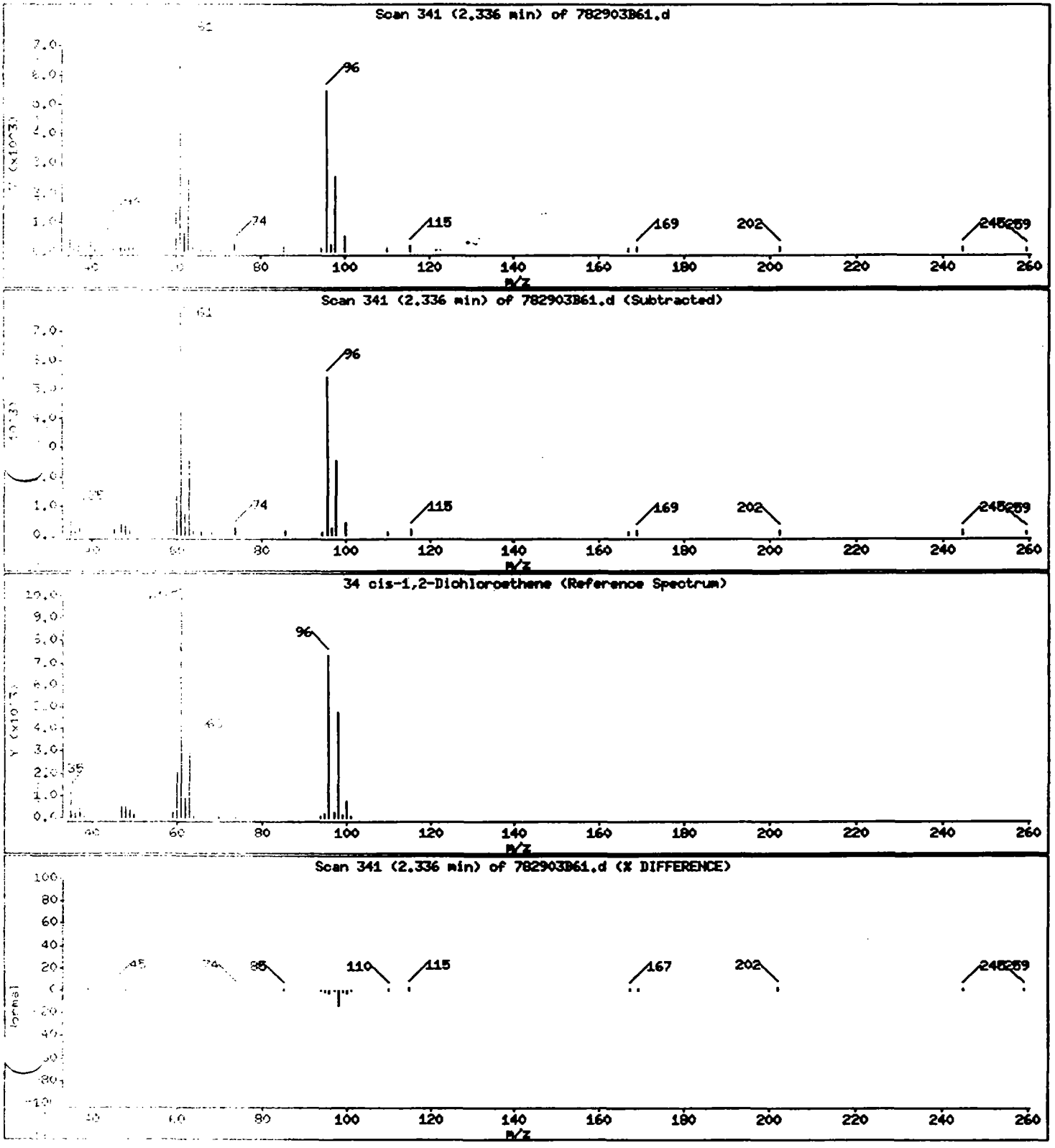
34 [illegible] Dichloroethene

Instrument: 5973hp61.i

Operator: 2323

Column diameter: 0.18

Concentration: 0.38 ug/L



Data file: 5973hp61.i/DF050928B61.b/782903B61.d

Date: [illegible] 2:13

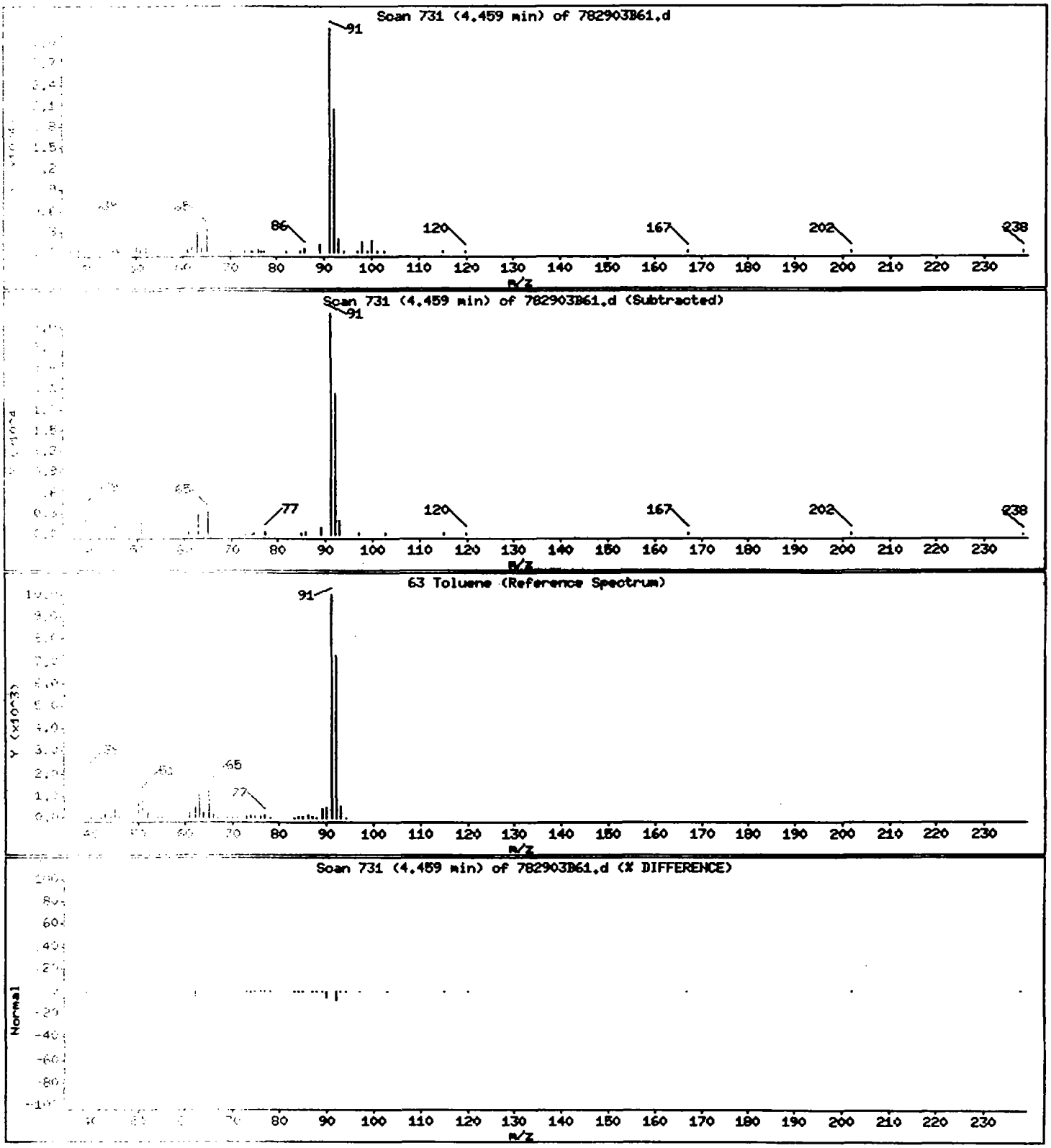
Time: [illegible]

Instrument: 5973hp61.i

Operator: 2323

Column diameter: 0.18

Concentration: 0.32 ug/L



Data File: [illegible]5973hp61.i/DF050928B61.b/782903B61.d

Date : [illegible] 23:13

[illegible]

Instrument: 5973hp61.i

[illegible]

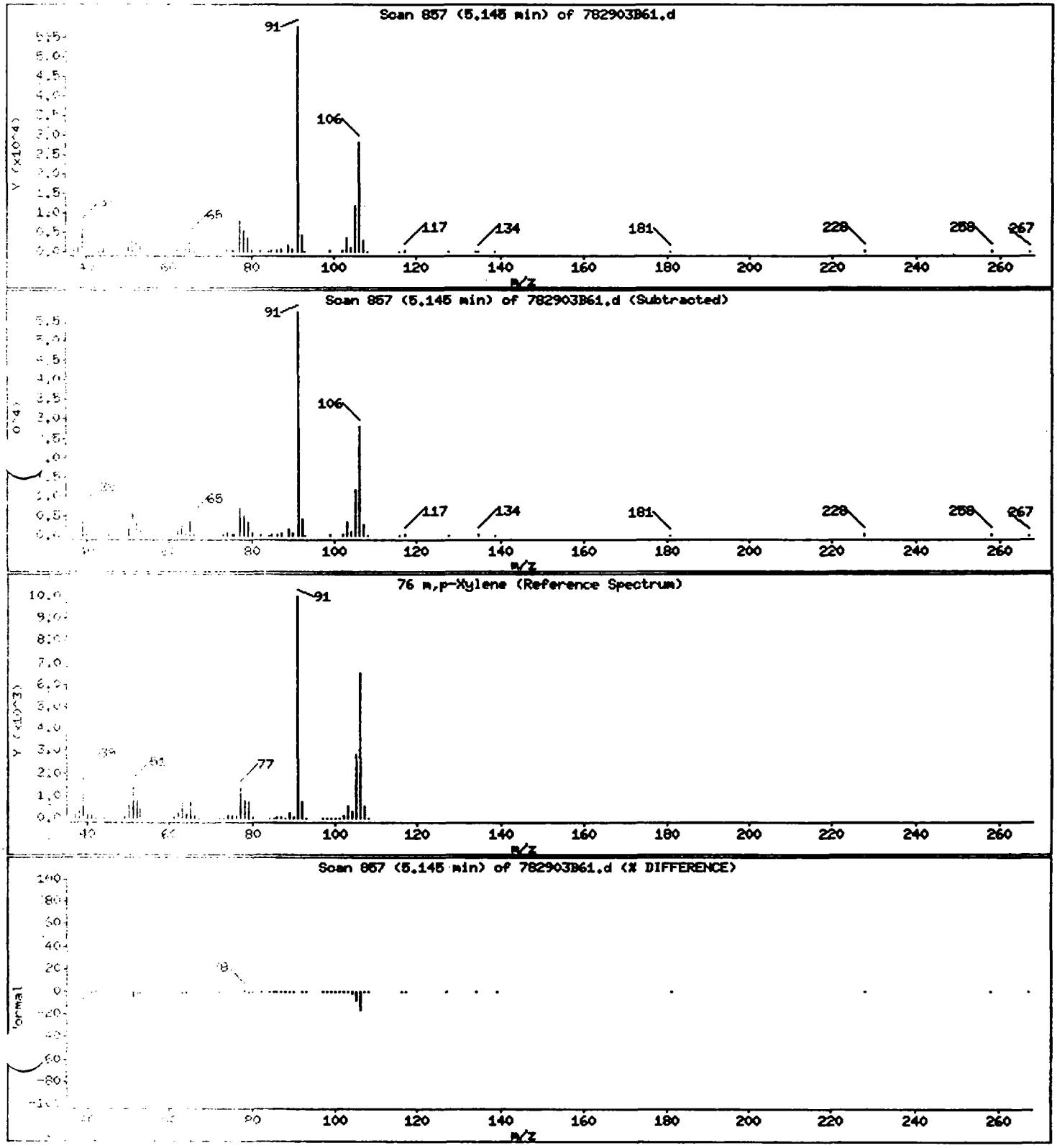
Operator: 2323

[illegible]

Column diameter: 0.18

76 m,p-Xylene

Concentration: 0.54 ug/L



Data File: /chem/5973hp61.i/DF050928B61.b/782903B61.d
Report Date: 29-Sep-2005 23:31

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5973hp61.i/DF050928B61.b/782903B61.d
Lab Smp Id: 782903 Client Smp ID: ACSGWPWB26
Inj Date : 28-SEP-2005 23:13
Operator : 2323 Inst ID: 5973hp61.i
Smp Info : 782903:2323
Misc Info : 61
Comment :
Method : /chem/5973hp61.i/DF050928B61.b/W8260-B-25MLv9.m
Meth Date : 29-Sep-2005 03:48 harris Quant Type: ISTD
Cal Date : 27-SEP-2005 20:02 Cal File: CZ050927B61.d
Als bottle: 21
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TCL4.sub
Target Version: 3.50
Processing Host: dante

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWPWC26

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 782905

Sample wt/vol: 25 (g/ml) ML Lab File ID: 782905B61

Level: (low/med) LOW Date Received: 09/27/05

% Moisture: not dec. _____ Date Analyzed: 09/29/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.20	J
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
75-15-0	Carbon disulfide	0.50	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	0.50	U
67-64-1	Acetone	2.5	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene Chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl-tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-butanone	2.5	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	2.5	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-hexanone	2.5	U
124-48-1	Dibromochloromethane	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWPWC26

[illegible] COMPUCHEM Method: 8260B

[illegible] Case No.: SAS No.: SDG No.: 7829

[illegible] water) WATER Lab Sample ID: 782905

[illegible] 25 (g/ml) ML Lab File ID: 782905B61

[illegible] (low/med) LOW Date Received: 09/27/05

% Moisture: not dec. _____ Date Analyzed: 09/29/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
[illegible]	1,2-Dibromoethane	0.50	U
[illegible]	Chlorobenzene	0.50	U
[illegible]	Ethylbenzene	0.50	U
[illegible]	m,p-Xylene	1.0	U
[illegible]	o-Xylene	0.50	U
[illegible]	Styrene	0.50	U
[illegible]	Bromoform	0.50	U
[illegible]	Isopropyl Benzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
[illegible]	1,3-Dichlorobenzene	0.50	U
[illegible]	1,4-Dichlorobenzene	0.50	U
[illegible]	1,2-Dichlorobenzene	0.50	U
[illegible]	1,2-Dibromo-3-Chloropropane	0.50	U
[illegible]	1,2,4-Trichlorobenzene	0.50	U
[illegible]	Xylene (total)	0.50	U
[illegible]	Cyclohexane	0.50	U
[illegible]	Methylcyclohexane	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWPWC26

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 782905

Sample wt/vol: 25 (g/ml) ML Lab File ID: 782905B61

Level: (low/med) LOW Date Received: 09/27/05

% Moisture: not dec. _____ Date Analyzed: 09/29/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

Number TICs found: 1

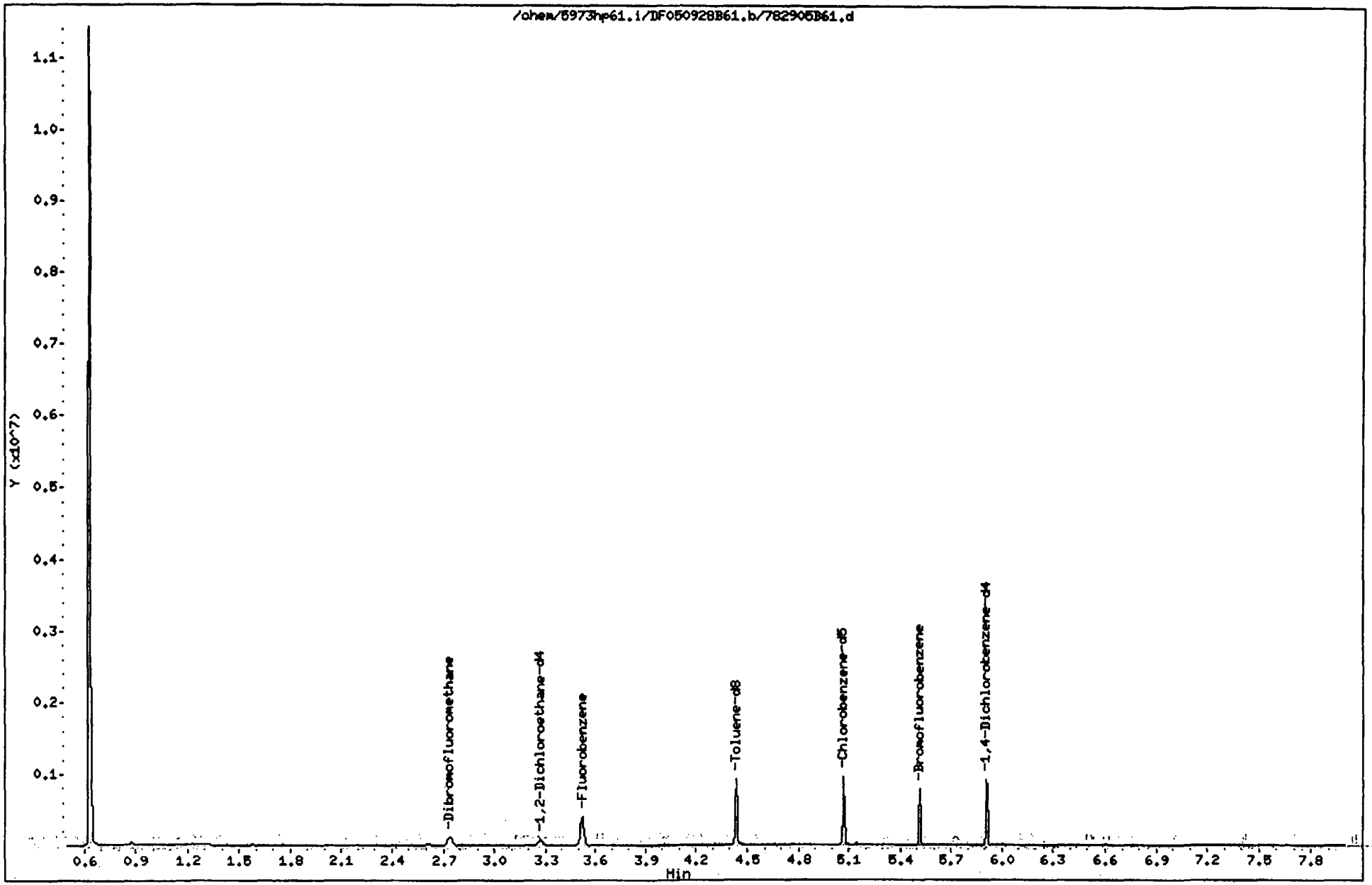
CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	0.88	0.62	J
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I VOA-TIC

Data File: /chem/5973hp61.i/DF050928B61.b/782905B61.d
Date : 29-SEP-2005 01:05
Client ID: ACSGWPWC26
Sample Info: 782905;2323
Purge Volume: 25.0
Column phase: RTX-VMS

Instrument: 5973hp61.i
Operator: 2323
Column diameter: 0.18



Data File: /chem/5973hp61.i/DF050928B61.b/782905B61.d
Report Date: 29-Sep-2005 01:46

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5973hp61.i/DF050928B61.b/782905B61.d
Lab Smp Id: 782905 Client Smp ID: ACSGWPWC26
Inj Date : 29-SEP-2005 01:05
Operator : 2323 Inst ID: 5973hp61.i
Smp Info : 782905:2323
Misc Info : 61
Comment :
Method : /chem/5973hp61.i/DF050928B61.b/W8260-B-25MLv9.m
Meth Date : 29-Sep-2005 00:48 fertile Quant Type: ISTD
Cal Date : 27-SEP-2005 20:02 Cal File: CZ050927B61.d
Als bottle: 26
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TCL4.sub
Target Version: 3.50
Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	volume of water
DF	1.00000	dilution factor

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
*	1 Fluorobenzene	96	3.523	3.517	(1.000)	291834	125.000	
*	2 Chlorobenzene-d5	117	5.069	5.069	(1.000)	230438	125.000	
*	3 1,4-Dichlorobenzene-d4	152	5.912	5.901	(1.000)	125072	125.000	
$	4 Dibromofluoromethane	113	2.739	2.733	(0.777)	76136	118.923	4.8
$	5 1,2-Dichloroethane-d4	65	3.272	3.267	(0.929)	55575	129.530	5.2
$	6 Toluene-d8	98	4.437	4.437	(0.875)	284101	123.479	4.9
$	7 Bromofluorobenzene	95	5.515	5.510	(0.933)	105686	126.135	5.0
	8 Dichlorodifluoromethane	85	Compound Not Detected.					
	9 Chloromethane	50	0.785	0.757	(0.223)	6942	5.06881	0.20(a)
	10 Vinyl Chloride	62	Compound Not Detected.					
	11 Bromomethane	94	Compound Not Detected.					
	12 Chloroethane	64	Compound Not Detected.					
	13 Trichlorofluoromethane	101	Compound Not Detected.					
	16 1,1-Dichloroethene	96	Compound Not Detected.					
	18 Acetone	43	Compound Not Detected.					

Data File: /chem/5973hp61.i/DF050928B61.b/782905B61.d
Report Date: 29-Sep-2005 01:46

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
20	1,1,2-trichloro-1,2,2-trifluo	85	Compound Not Detected.					
21	Carbon disulfide	76	Compound Not Detected.					
163	Methyl acetate	43	Compound Not Detected.					
24	Methylene Chloride	84	Compound Not Detected.					
27	trans-1,2-Dichloroethene	96	Compound Not Detected.					
28	Methyl-tert-butyl ether	73	Compound Not Detected.					
30	1,1-Dichloroethane	63	Compound Not Detected.					
34	cis-1,2-Dichloroethene	96	Compound Not Detected.					
37	2-butanone	43	Compound Not Detected.					
42	Chloroform	83	Compound Not Detected.					
43	1,1,1-Trichloroethane	97	Compound Not Detected.					
44	Cyclohexane	84	Compound Not Detected.					
48	Carbon Tetrachloride	117	Compound Not Detected.					
49	1,2-Dichloroethane	62	Compound Not Detected.					
51	Benzene	78	Compound Not Detected.					
53	Trichloroethene	130	Compound Not Detected.					
54	Methylcyclohexane	83	Compound Not Detected.					
55	1,2-Dichloropropane	63	Compound Not Detected.					
59	Bromodichloromethane	83	Compound Not Detected.					
61	cis-1,3-Dichloropropene	75	Compound Not Detected.					
62	4-Methyl-2-pentanone	43	Compound Not Detected.					
63	Toluene	92	Compound Not Detected.					
64	trans-1,3-Dichloropropene	75	Compound Not Detected.					
65	1,1,2-Trichloroethane	97	Compound Not Detected.					
68	Tetrachloroethene	164	Compound Not Detected.					
69	2-hexanone	43	Compound Not Detected.					
70	Dibromochloromethane	129	Compound Not Detected.					
71	1,2-Dibromoethane	107	Compound Not Detected.					
72	Chlorobenzene	112	Compound Not Detected.					
75	Ethylbenzene	106	Compound Not Detected.					
76	m,p-Xylene	106	Compound Not Detected.					
77	o-Xylene	106	Compound Not Detected.					
78	Styrene	104	Compound Not Detected.					
79	Bromoform	173	Compound Not Detected.					
81	Isopropyl Benzene	105	Compound Not Detected.					
82	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
94	1,3-Dichlorobenzene	146	Compound Not Detected.					
95	1,4-Dichlorobenzene	146	Compound Not Detected.					
98	1,2-Dichlorobenzene	146	Compound Not Detected.					
101	1,2-Dibromo-3-Chloropropane	75	Compound Not Detected.					
102	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
M 107	Xylene (total)	106	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

Data: ...5973hp61.i/DF050928B61.b/782905B61.d

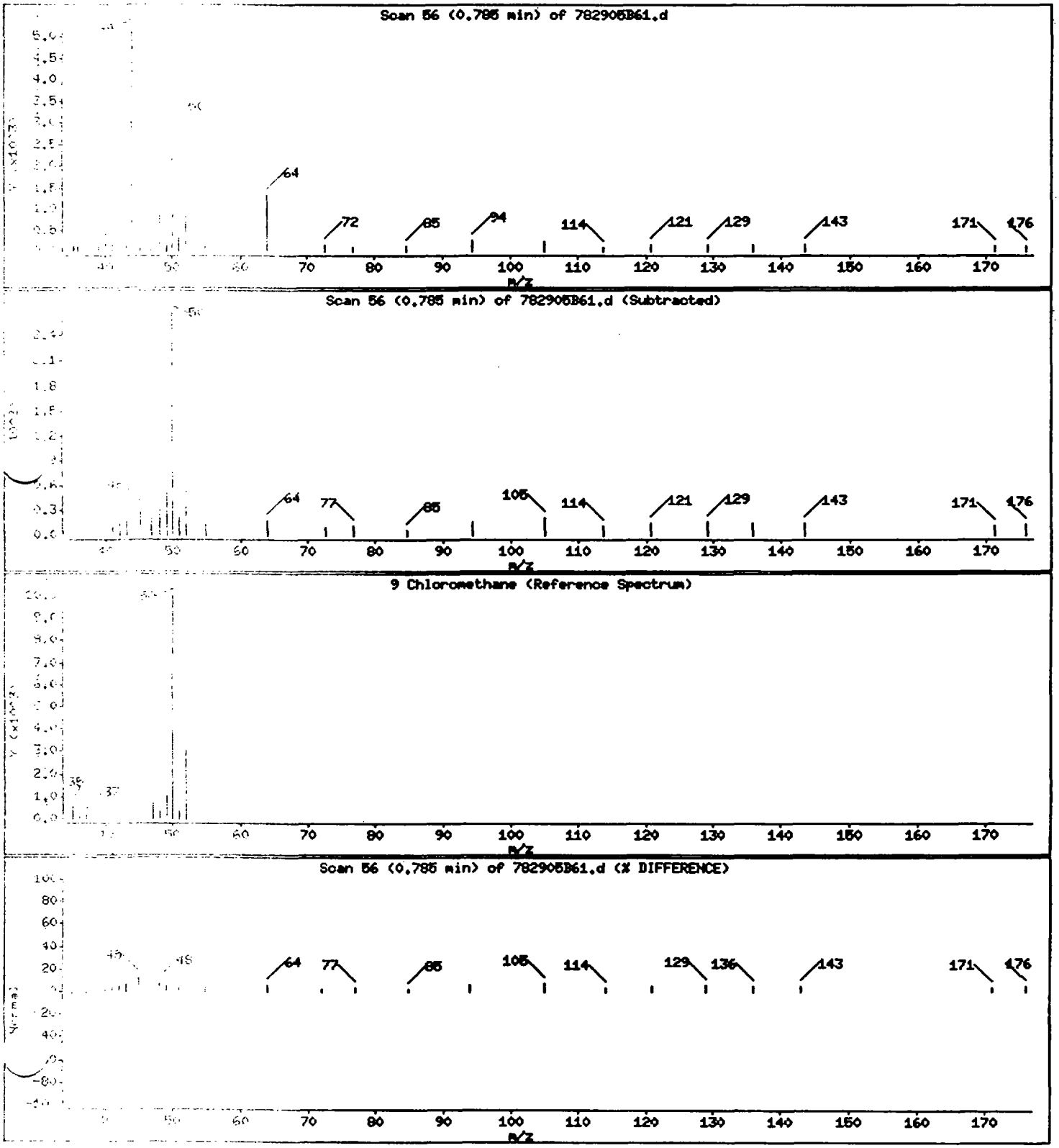
Date: ...-SEP-2005 01:05

Instrument: 5973hp61.i

Operator: 2323

Column diameter: 0.18

Concentration: 0.20 ug/L



Data File: /chem/5973hp61.i/DF050928B61.b/782905B61.d
Report Date: 29-Sep-2005 23:32

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5973hp61.i/DF050928B61.b/782905B61.d
Lab Smp Id: 782905 Client Smp ID: ACSGWPWC26
Inj Date : 29-SEP-2005 01:05
Operator : 2323 Inst ID: 5973hp61.i
Smp Info : 782905:2323
Misc Info : 61
Comment :
Method : /chem/5973hp61.i/DF050928B61.b/W8260-B-25MLv9.m
Meth Date : 29-Sep-2005 03:48 harris Quant Type: ISTD
Cal Date : 27-SEP-2005 20:02 Cal File: CZ050927B61.d
Als bottle: 26
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TCL4.sub
Target Version: 3.50
Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	volume of water
DF	1.00000	dilution factor

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
* 1 Fluorobenzene	3.523	596318	125.000

	CONCENTRATIONS			QUANT			
RT	AREA	ON-COL(ng)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown			CAS #:				
0.877	73606	15.4293466	0.62	0		0	1

Data File: /chem/5973hp61.i/DF050928B61.b/782905B61.d

Date : 29-SEP-2005 01:05

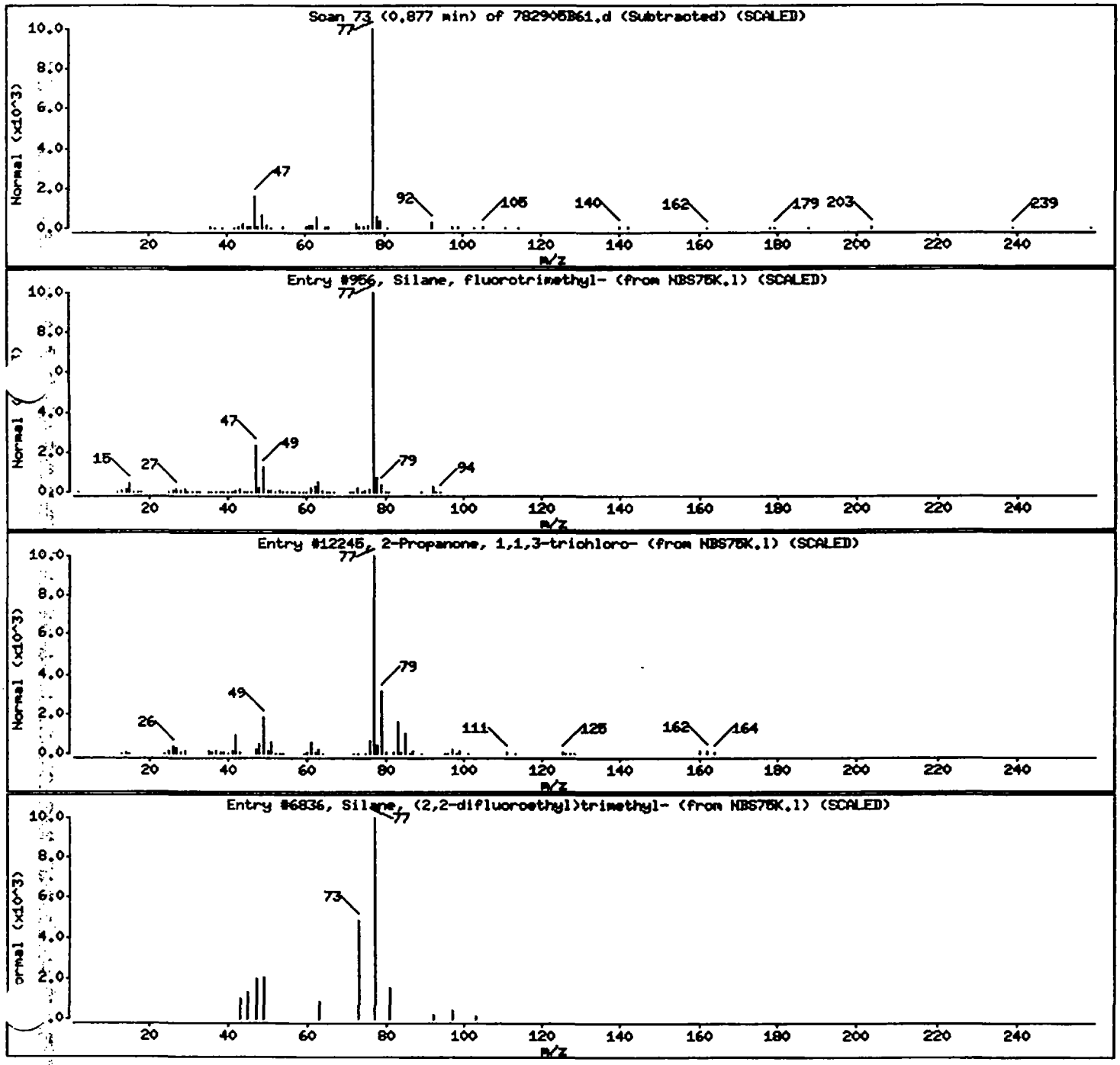
lient ID: ACSGWPWC26 Instrument: 5973hp61.i

Sample Info: 782905:2323

Purge Volume: 25.0 Operator: 2323

Column phase: RTX-VMS Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Silane, fluorotrimethyl-	420-56-4	NBS75K.l	956	43	C3H9FSi	92
2-Propanone, 1,1,3-trichloro-	921-03-9	NBS75K.l	12245	9	C3H3Cl3O	160
Silane, (2,2-difluoroethyl)trimethyl-	0-00-0	NBS75K.l	6836	4	C5H12F2Si	138



FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWPWD26

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 782907

Sample wt/vol: 25 (g/ml) ML Lab File ID: 782907B61

Level: (low/med) LOW Date Received: 09/27/05

% Moisture: not dec. _____ Date Analyzed: 09/29/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
75-15-0	Carbon disulfide	0.50	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	0.50	U
67-64-1	Acetone	2.5	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene Chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl-tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-butanone	2.5	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	2.5	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-hexanone	2.5	U
124-48-1	Dibromochloromethane	0.50	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWPWD26

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 782907

Sample wt/vol: 25 (g/ml) ML Lab File ID: 782907B61

Level: (low/med) LOW Date Received: 09/27/05

% Moisture: not dec. _____ Date Analyzed: 09/29/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
108-38-3	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropyl Benzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-Chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
110-82-7	Cyclohexane	0.50	U
108-87-2	Methylcyclohexane	0.50	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWPWD26

Lab Name: COMMCHEM Contract: 8260B

Lab Code: CLIENTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 782907

Sample wt/vol: 25 (g/ml) ML Lab File ID: 782907B61

Level: (low/med) LOW Date Received: 09/27/05

% Moisture: not dec. _____ Date Analyzed: 09/29/05

GC Column: RTX VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

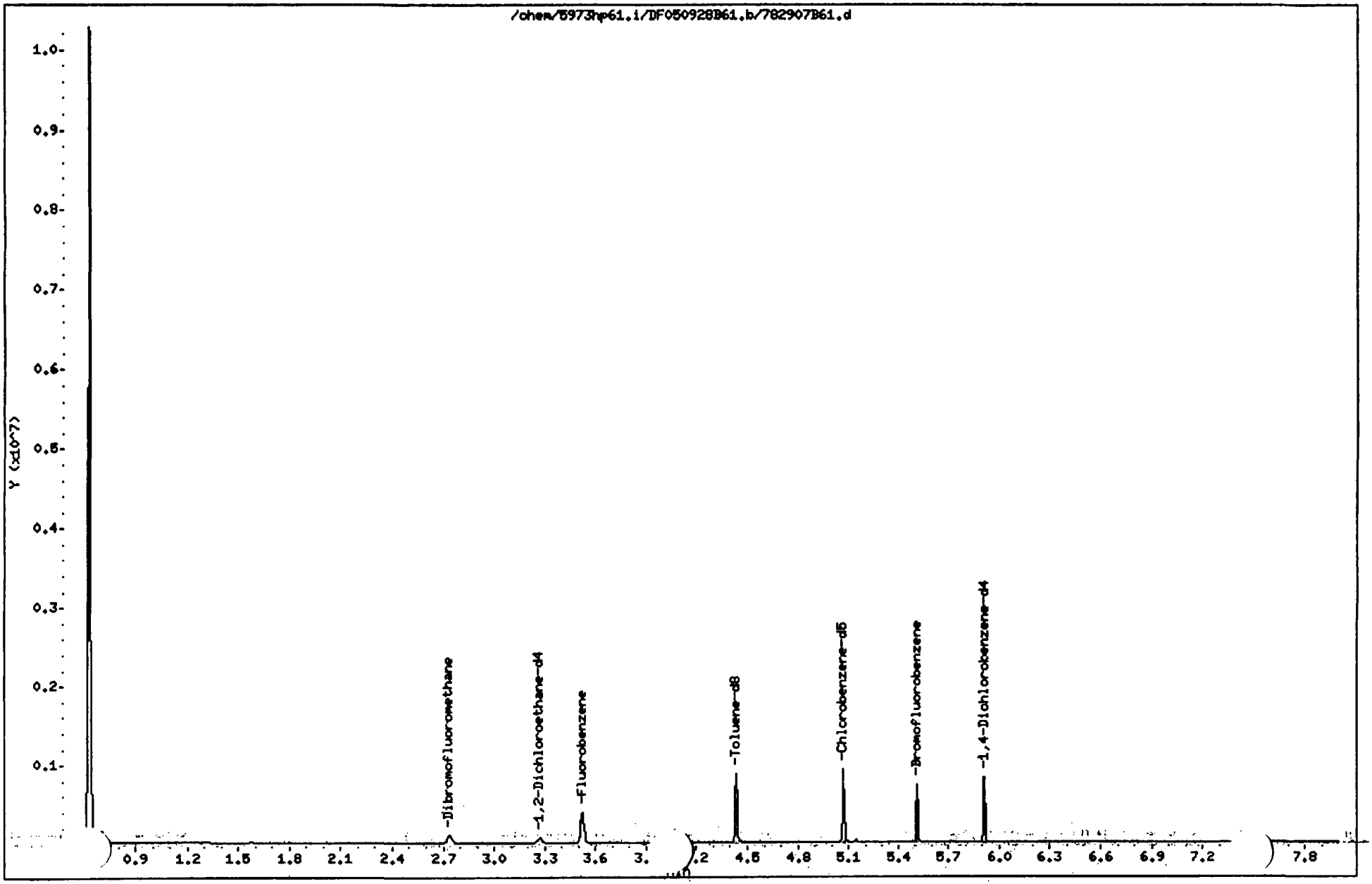
Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I VOA-TIC

Data File: /chem/5973hp61.i/DF050928B61.b/782907B61.d
Date : 29-SEP-2005 01:28
Client ID: ACSGWPWD26
Sample Info: 782907;2323
Purge Volume: 25.0
Column phase: RTX-VMS

Instrument: 5973hp61.i
Operator: 2323
Column diameter: 0.18



Data File: /chem/5973hp61.i/DF050928B61.b/782907B61.d
Report Date: 29-Sep-2005 01:46

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5973hp61.i/DF050928B61.b/782907B61.d
Lab Smp Id: 782907 Client Smp ID: ACSGWPWD26
Inj Date : 29-SEP-2005 01:28
Operator : 2323 Inst ID: 5973hp61.i
Smp Info : 782907:2323
Misc Info : 61
Comment :
Method : /chem/5973hp61.i/DF050928B61.b/W8260-B-25MLv9.m
Meth Date : 29-Sep-2005 00:48 fertile Quant Type: ISTD
Cal Date : 27-SEP-2005 20:02 Cal File: CZ050927B61.d
Als bottle: 27
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TCL4.sub
Target Version: 3.50
Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	volume of water
DF	1.00000	dilution factor

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
*	1 Fluorobenzene	96	3.523	3.517	(1.000)	287181	125.000	
*	2 Chlorobenzene-d5	117	5.069	5.069	(1.000)	220363	125.000	
*	3 1,4-Dichlorobenzene-d4	152	5.912	5.901	(1.000)	115821	125.000	
$	4 Dibromofluoromethane	113	2.739	2.733	(0.777)	66065	104.864	4.2
$	5 1,2-Dichloroethane-d4	65	3.267	3.267	(0.927)	49680	117.666	4.7
$	6 Toluene-d8	98	4.437	4.437	(0.875)	280369	127.428	5.1
$	7 Bromofluorobenzene	95	5.515	5.510	(0.933)	99115	127.741	5.1
	8 Dichlorodifluoromethane	85	Compound Not Detected.					
	9 Chloromethane	50	Compound Not Detected.					
	10 Vinyl Chloride	62	Compound Not Detected.					
	11 Bromomethane	94	Compound Not Detected.					
	12 Chloroethane	64	Compound Not Detected.					
	13 Trichlorofluoromethane	101	Compound Not Detected.					
	16 1,1-Dichloroethene	96	Compound Not Detected.					
	18 Acetone	43	Compound Not Detected.					

Data File: /chem/5973hp61.i/DF050928B61.b/782907B61.d
Report Date: 29-Sep-2005 01:46

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
20	1,1,2-trichloro-1,2,2-trifluo	85	Compound Not Detected.					
21	Carbon disulfide	76	Compound Not Detected.					
163	Methyl acetate	43	Compound Not Detected.					
24	Methylene Chloride	84	Compound Not Detected.					
27	trans-1,2-Dichloroethene	96	Compound Not Detected.					
28	Methyl-tert-butyl ether	73	Compound Not Detected.					
30	1,1-Dichloroethane	63	Compound Not Detected.					
34	cis-1,2-Dichloroethene	96	Compound Not Detected.					
37	2-butanone	43	Compound Not Detected.					
42	Chloroform	83	Compound Not Detected.					
43	1,1,1-Trichloroethane	97	Compound Not Detected.					
44	Cyclohexane	84	Compound Not Detected.					
48	Carbon Tetrachloride	117	Compound Not Detected.					
49	1,2-Dichloroethane	62	Compound Not Detected.					
51	Benzene	78	Compound Not Detected.					
53	Trichloroethene	130	Compound Not Detected.					
54	Methylcyclohexane	83	Compound Not Detected.					
56	1,2-Dichloropropane	63	Compound Not Detected.					
59	Bromodichloromethane	83	Compound Not Detected.					
61	cis-1,3-Dichloropropene	75	Compound Not Detected.					
62	4-Methyl-2-pentanone	43	Compound Not Detected.					
63	Toluene	92	Compound Not Detected.					
64	trans-1,3-Dichloropropene	75	Compound Not Detected.					
	1,1,2-Trichloroethane	97	Compound Not Detected.					
	Tetrachloroethene	164	Compound Not Detected.					
69	2-hexanone	43	Compound Not Detected.					
70	Dibromochloromethane	129	Compound Not Detected.					
71	1,2-Dibromoethane	107	Compound Not Detected.					
72	Chlorobenzene	112	Compound Not Detected.					
75	Ethylbenzene	106	Compound Not Detected.					
76	m,p-Xylene	106	Compound Not Detected.					
77	o-Xylene	106	Compound Not Detected.					
78	Styrene	104	Compound Not Detected.					
79	Bromoform	173	Compound Not Detected.					
81	Isopropyl Benzene	105	Compound Not Detected.					
82	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
94	1,3-Dichlorobenzene	146	Compound Not Detected.					
96	1,4-Dichlorobenzene	146	Compound Not Detected.					
98	1,2-Dichlorobenzene	146	Compound Not Detected.					
101	1,2-Dibromo-3-Chloropropane	75	Compound Not Detected.					
102	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
M 107	Xylene (total)	106	Compound Not Detected.					

Data File: /chem/5973hp61.i/DF050928B61.b/782907B61.d
Report Date: 29-Sep-2005 01:46

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5973hp61.i/DF050928B61.b/782907B61.d
Lab Smp Id: 782907 Client Smp ID: ACSGWPWD26
Inj. Date : 29-SEP-2005 01:28
Operator : 2323 Inst ID: 5973hp61.i
Smp Info : 782907:2323
Misc Info : 61
Comment :
Method : /chem/5973hp61.i/DF050928B61.b/W8260-B-25MLv9.m
Meth Date : 29-Sep-2005 00:48 fertile Quant Type: ISTD
Cal Date : 27-SEP-2005 20:02 Cal File: CZ050927B61.d
Als bottle: 27
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TCL4.sub
Target Version: 3.50
Processing Host: dante

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWPWDUP26

Lab Name: COMPUCHEM Method: 8260B

Lab Code: DIPRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 782902

Sample wt/vol: 25 (g/ml) ML Lab File ID: 782902B61

Level: (low/med) LOW Date Received: 09/26/05

% Moisture: not dec. _____ Date Analyzed: 09/28/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
[illegible]	------Dichlorodifluoromethane	0.50	U
[illegible]	-------Chloromethane	0.50	U
[illegible]	--------Vinyl Chloride	0.50	U
[illegible]	---------Bromomethane	0.50	U
[illegible]	--------Chloroethane	0.50	U
[illegible]	-------Trichlorofluoromethane	0.50	U
[illegible]	-------1,1-Dichloroethene	0.50	U
[illegible]	---------Carbon disulfide	0.50	U
76-13-1	---------1,1,2-trichloro-1,2,2-triflu	0.50	U
[illegible]	--------Acetone	2.5	U
[illegible]	-------Methyl acetate	0.50	U
[illegible]	------Methylene Chloride	0.50	U
[illegible]	-------trans-1,2-Dichloroethene	0.50	U
[illegible]	-------Methyl-tert-butyl ether	0.50	U
[illegible]	------1,1-Dichloroethane	0.50	U
[illegible]	--------cis-1,2-Dichloroethene	0.50	U
[illegible]	------2-butanone	2.5	U
[illegible]	-------Chloroform	0.50	U
[illegible]	---------1,1,1-Trichloroethane	0.50	U
[illegible]	------Carbon Tetrachloride	0.50	U
[illegible]	---------Benzene	0.50	U
[illegible]	-------1,2-Dichloroethane	0.50	U
[illegible]	---------Trichloroethene	0.50	U
78-87-5	---------1,2-Dichloropropane	0.50	U
[illegible]	--------Bromodichloromethane	0.50	U
10061-01-5	------cis-1,3-Dichloropropene	0.50	U
108-10-1	--------4-Methyl-2-pentanone	2.5	U
[illegible]	---------Toluene	0.50	U
10061-02-6	------trans-1,3-Dichloropropene	0.50	U
[illegible]	---------1,1,2-Trichloroethane	0.50	U
[illegible]	-------Tetrachloroethene	0.50	U
[illegible]	-------2-hexanone	2.5	U
[illegible]	--------Dibromochloromethane	0.50	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWPWDUP26

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 782902

Sample wt/vol: 25 (g/ml) ML Lab File ID: 782902B61

Level: (low/med) LOW Date Received: 09/26/05

% Moisture: not dec. _____ Date Analyzed: 09/28/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
108-38-3	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropyl Benzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-Chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
110-82-7	Cyclohexane	0.50	U
108-87-2	Methylcyclohexane	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWPWDUP26

ab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 782902

Sample wt/vol: 25 (g/ml) ML Lab File ID: 782902B61

Level: (low/med) LOW Date Received: 09/26/05

% Moisture: not dec. _____ Date Analyzed: 09/28/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

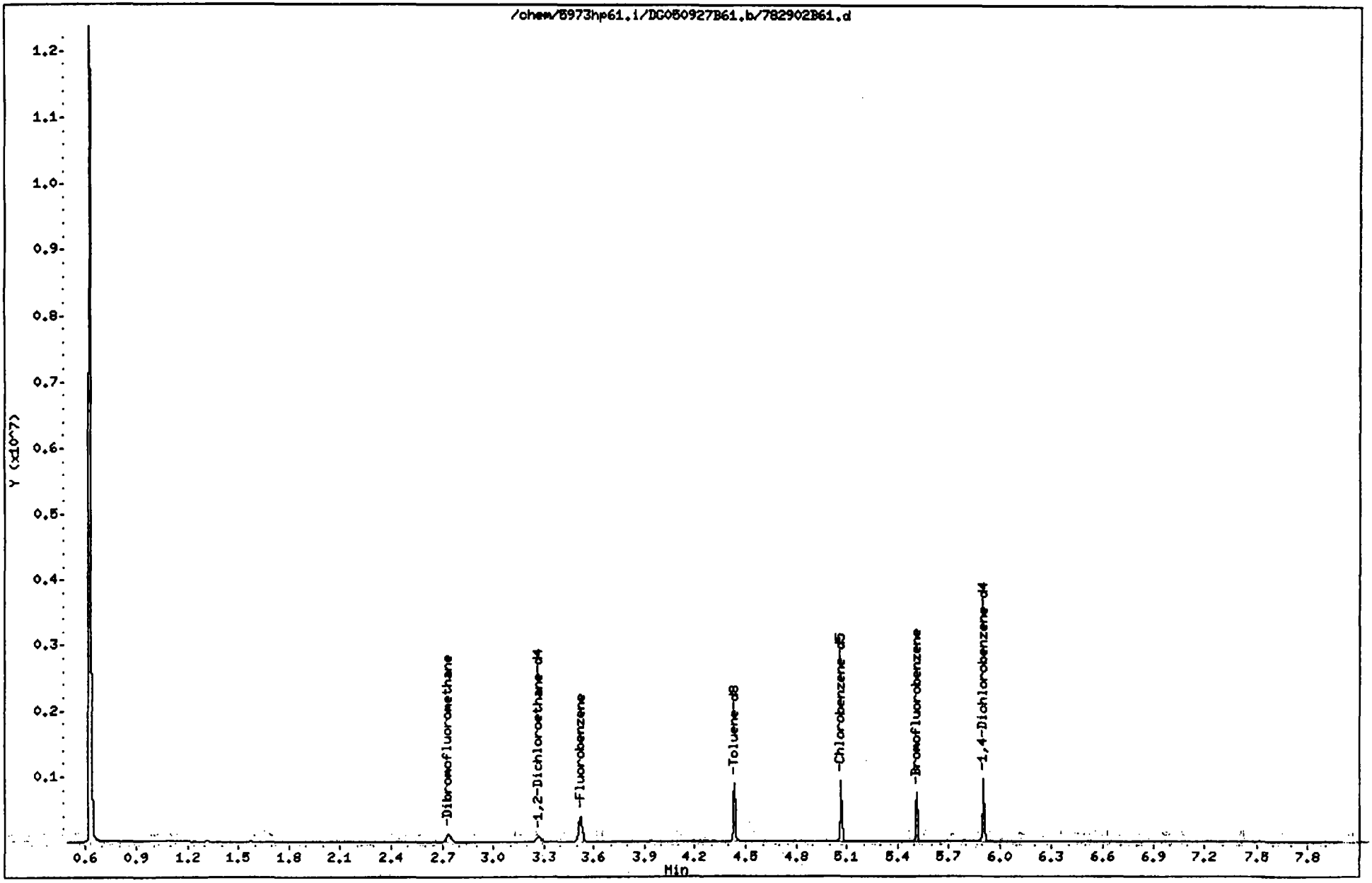
CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I VOA-TIC

Data File: /chem/5973hp61.i/DC050927B61.b/782902B61.d
Date : 28-SEP-2005 05:05
Client ID: ACSGWPWDUP26
Sample Info: 782902;2323
Purge Volume: 25.0
Column phase: RTX-VMS

Instrument: 5973hp61.i
Operator: 2323
Column diameter: 0.18



Data File: [illegible]hem/5973hp61.i/DG050927B61.b/782902B61.d
Report Date: 28-Sep-2005 03:37

CompuChem

[illegible]846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data [illegible]hem/5973hp61.i/DG050927B61.b/782902B61.d
Lab Smp [illegible]02 Client Smp ID: ACSGWPWDUP26
Inj [illegible] SEP-2005 05:05
Operator [illegible] Inst ID: 5973hp61.i
Smp Info : [illegible]02:2323
Misc Info : [illegible]
Comment :
Method : [illegible]chem/5973hp61.i/DG050927B61.b/W8260-B-25MLv9.m
Meth Date : 28 Sep-2005 02:50 fertile Quant Type: ISTD
Cal Date : [illegible] SEP-2005 20:02 Cal File: CZ050927B61.d
Als [illegible]
Dil [illegible]00000
Integrator : [illegible] RTE Compound Sublist: TCL4.sub
Target [illegible] 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

[illegible]	Value	Description
[illegible]	[illegible]00000	Dilution Factor
[illegible]	25.00000	volume of water
[illegible]	1.00000	dilution factor

[illegible] Local Compound Variable

Compound	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
* [illegible]	96	3.523	3.517	(1.000)	292209	125.000	
* [illegible]	117	5.069	5.069	(1.000)	226360	125.000	
* [illegible]	152	5.907	5.907	(1.000)	122387	125.000	
$ [illegible]	113	2.739	2.739	(0.777)	77248	120.505	4.8
$ [illegible]	65	3.267	3.267	(0.927)	53920	125.511	5.0
$ [illegible]	98	4.437	4.437	(0.875)	286903	126.943	5.1
$ [illegible]	95	5.515	5.515	(0.934)	104080	126.943	5.1
[illegible]methane	85	Compound Not Detected.					
[illegible]ethane	50	Compound Not Detected.					
[illegible]	62	Compound Not Detected.					
[illegible]	94	Compound Not Detected.					
[illegible]	64	Compound Not Detected.					
[illegible]methane	101	Compound Not Detected.					
[illegible]methene	96	Compound Not Detected.					
[illegible]	43	Compound Not Detected.					
[illegible]2-trifluo	85	Compound Not Detected.					

8/928-

Data Path : /chem/5973hp61.i/DG050927B61.b/782902B61.d
Report Date: 28-Sep-2005 03:37

	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
	76	Compound Not Detected.					
	43	Compound Not Detected.					
	84	Compound Not Detected.					
	96	Compound Not Detected.					
	73	Compound Not Detected.					
	63	Compound Not Detected.					
	96	Compound Not Detected.					
	43	Compound Not Detected.					
	83	Compound Not Detected.					
	97	Compound Not Detected.					
	84	Compound Not Detected.					
	117	Compound Not Detected.					
	62	Compound Not Detected.					
	78	Compound Not Detected.					
	130	Compound Not Detected.					
	83	Compound Not Detected.					
	63	Compound Not Detected.					
	83	Compound Not Detected.					
	75	Compound Not Detected.					
	43	Compound Not Detected.					
	92	Compound Not Detected.					
	75	Compound Not Detected.					
	97	Compound Not Detected.					
	164	Compound Not Detected.					
	43	Compound Not Detected.					
	129	Compound Not Detected.					
	107	Compound Not Detected.					
	112	Compound Not Detected.					
	106	Compound Not Detected.					
	106	Compound Not Detected.					
	106	Compound Not Detected.					
	104	Compound Not Detected.					
	173	Compound Not Detected.					
	105	Compound Not Detected.					
	83	Compound Not Detected.					
	146	Compound Not Detected.					
	146	Compound Not Detected.					
	146	Compound Not Detected.					
	75	Compound Not Detected.					
	180	Compound Not Detected.					
	106	Compound Not Detected.					

Data File: /chem/5973hp61.i/DG050927B61.b/782902B61.d
Report Date: 28-Sep-2005 03:37

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5973hp61.i/DG050927B61.b/782902B61.d
Lab Smp Id: 782902 Client Smp ID: ACSGWPWDUP26
Inj Date : 28-SEP-2005 05:05
Operator : 2323 Inst ID: 5973hp61.i
Smp Info : 782902:2323
Misc Info : 61
Comment :
Method : /chem/5973hp61.i/DG050927B61.b/W8260-B-25MLv9.m
Meth Date : 28-Sep-2005 02:50 fertile Quant Type: ISTD
Cal Date : 27-SEP-2005 20:02 Cal File: CZ050927B61.d
Als bottle: 66
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TCL4.sub
Target Version: 3.50

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWPWT26

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 782904

Sample wt/vol: 25 (g/ml) ML Lab File ID: 782904B61

Level: (low/med) LOW Date Received: 09/27/05

% Moisture: not dec. _____ Date Analyzed: 09/29/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.24	J
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
75-15-0	Carbon disulfide	0.50	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	0.50	U
67-64-1	Acetone	2.5	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene Chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl-tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-butanone	2.5	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	2.5	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-hexanone	2.5	U
124-48-1	Dibromochloromethane	0.50	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWPWT26

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 782904

Sample wt/vol: 25 (g/ml) ML Lab File ID: 782904B61

Level: (low/med) LOW Date Received: 09/27/05

% Moisture: not dec. _____ Date Analyzed: 09/29/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
108-38-3	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropyl Benzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-Chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
110-82-7	Cyclohexane	0.50	U
108-87-2	Methylcyclohexane	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWPWT26

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBERTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 782904

Sample wt/vol: 25 (g/ml) ML Lab File ID: 782904B61

Level: (low/med) LOW Date Received: 09/27/05

% Moisture: not dec. _____ Date Analyzed: 09/29/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

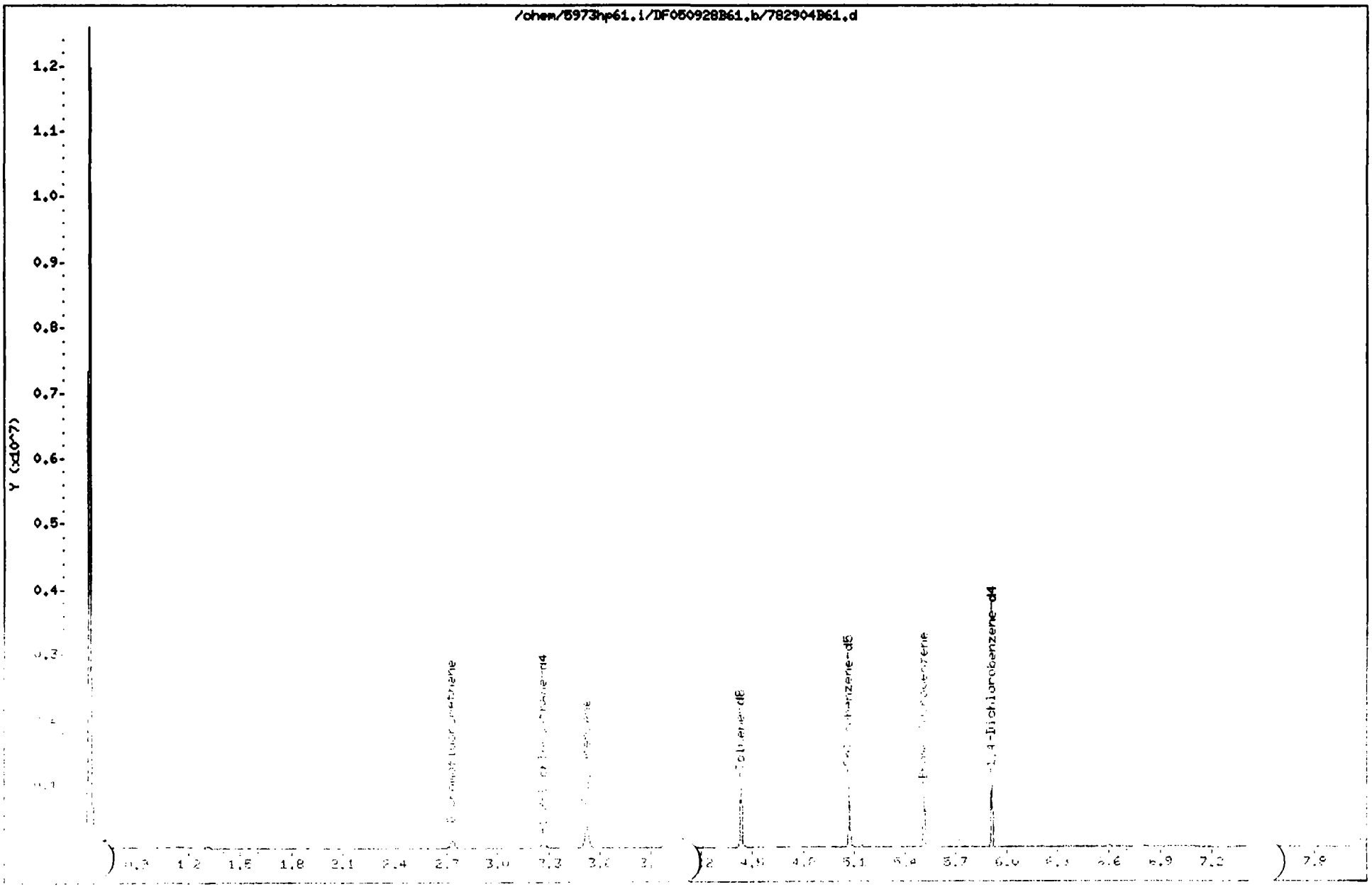
Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

Data File: /chem/5973hp61.i/DF050928B61.b/782904B61.d
Date : 29-SEP-2005 00:43
Client ID: ACSGWPWT26
Instrument: 5973hp61.i
Sample Info: 782904;2323
Purge Volume: 25.0
Operator: 2323
Column phase: RTX-VMS
Column diameter: 0.18



Data File: /chem/5973hp61.i/DF050928B61.b/782904B61.d
Report Date: 29-Sep-2005 01:46

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5973hp61.i/DF050928B61.b/782904B61.d
Lab Smp Id: 782904 Client Smp ID: ACSGWPWT26
Inj Date : 29-SEP-2005 00:43
Operator : 2323 Inst ID: 5973hp61.i
Smp Info : 782904:2323
Misc Info : 61
Comment :
Method : /chem/5973hp61.i/DF050928B61.b/W8260-B-25MLv9.m
Meth Date : 29-Sep-2005 00:48 fertile Quant Type: ISTD
Cal Date : 27-SEP-2005 20:02 Cal File: CZ050927B61.d
Als bottle: 25
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TCL4.sub
Target Version: 3.50
Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	volume of water
DF	1.00000	dilution factor

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
*	1 Fluorobenzene	96	3.523	3.517	(1.000)	293230	125.000	
*	2 Chlorobenzene-d5	117	5.069	5.069	(1.000)	234875	125.000	
*	3 1,4-Dichlorobenzene-d4	152	5.912	5.901	(1.000)	120610	125.000	
$	4 Dibromofluoromethane	113	2.739	2.733	(0.777)	75437	117.270	4.7
$	5 1,2-Dichloroethane-d4	65	3.267	3.267	(0.927)	55531	128.811	5.2
$	6 Toluene-d8	98	4.437	4.437	(0.875)	286285	122.078	4.9
$	7 Bromofluorobenzene	95	5.515	5.510	(0.933)	107499	133.045	5.3
	8 Dichlorodifluoromethane	85	Compound Not Detected.					
	9 Chloromethane	50	0.784	0.757	(0.223)	8333	6.05550	0.24(a)
	10 Vinyl Chloride	62	Compound Not Detected.					
	11 Bromomethane	94	Compound Not Detected.					
	12 Chloroethane	64	Compound Not Detected.					
	13 Trichlorofluoromethane	101	Compound Not Detected.					
	14 1,1-Dichloroethene	96	Compound Not Detected.					
	15 Acetone	43	Compound Not Detected.					

Data File: /chem/5973hp61.i/DF050928B61.b/782904B61.d
Report Date: 29-Sep-2005 01:46

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
20	1,1,2-trichloro-1,2,2-trifluo	85	Compound Not Detected.					
21	Carbon disulfide	76	Compound Not Detected.					
162	Methyl acetate	43	Compound Not Detected.					
24	Methylene Chloride	84	Compound Not Detected.					
27	trans-1,2-Dichloroethene	96	Compound Not Detected.					
28	Methyl-tert-butyl ether	73	Compound Not Detected.					
30	1,1-Dichloroethane	63	Compound Not Detected.					
34	cis-1,2-Dichloroethene	96	Compound Not Detected.					
37	2-butanone	43	Compound Not Detected.					
42	Chloroform	83	Compound Not Detected.					
43	1,1,1-Trichloroethane	97	Compound Not Detected.					
44	Cyclohexane	84	Compound Not Detected.					
48	Carbon Tetrachloride	117	Compound Not Detected.					
49	1,2-Dichloroethane	62	Compound Not Detected.					
51	Benzene	78	Compound Not Detected.					
53	Trichloroethene	130	Compound Not Detected.					
54	Methylcyclohexane	83	Compound Not Detected.					
55	1,2-Dichloropropane	63	Compound Not Detected.					
59	Bromodichloromethane	83	Compound Not Detected.					
61	cis-1,3-Dichloropropene	75	Compound Not Detected.					
62	4-Methyl-2-pentanone	43	Compound Not Detected.					
63	Toluene	92	Compound Not Detected.					
64	trans-1,3-Dichloropropene	75	Compound Not Detected.					
	1,1,2-Trichloroethane	97	Compound Not Detected.					
	Tetrachloroethene	164	Compound Not Detected.					
69	2-hexanone	43	Compound Not Detected.					
70	Dibromochloromethane	129	Compound Not Detected.					
71	1,2-Dibromoethane	107	Compound Not Detected.					
72	Chlorobenzene	112	Compound Not Detected.					
75	Ethylbenzene	106	Compound Not Detected.					
76	m,p-Xylene	106	Compound Not Detected.					
77	o-Xylene	106	Compound Not Detected.					
78	Styrene	104	Compound Not Detected.					
79	Bromoform	173	Compound Not Detected.					
81	Isopropyl Benzene	105	Compound Not Detected.					
82	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
94	1,3-Dichlorobenzene	146	Compound Not Detected.					
95	1,4-Dichlorobenzene	146	Compound Not Detected.					
98	1,2-Dichlorobenzene	146	Compound Not Detected.					
101	1,2-Dibromo-3-Chloropropane	75	Compound Not Detected.					
102	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
M 107	Xylene (total)	106	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

Data File: [illegible]5973hp61.i/DF050928B61.b/782904B61.d

Date : [illegible]-SEP-2005 00:43

Client ID: [illegible]

Sample Info: [illegible]

[illegible]

[illegible]

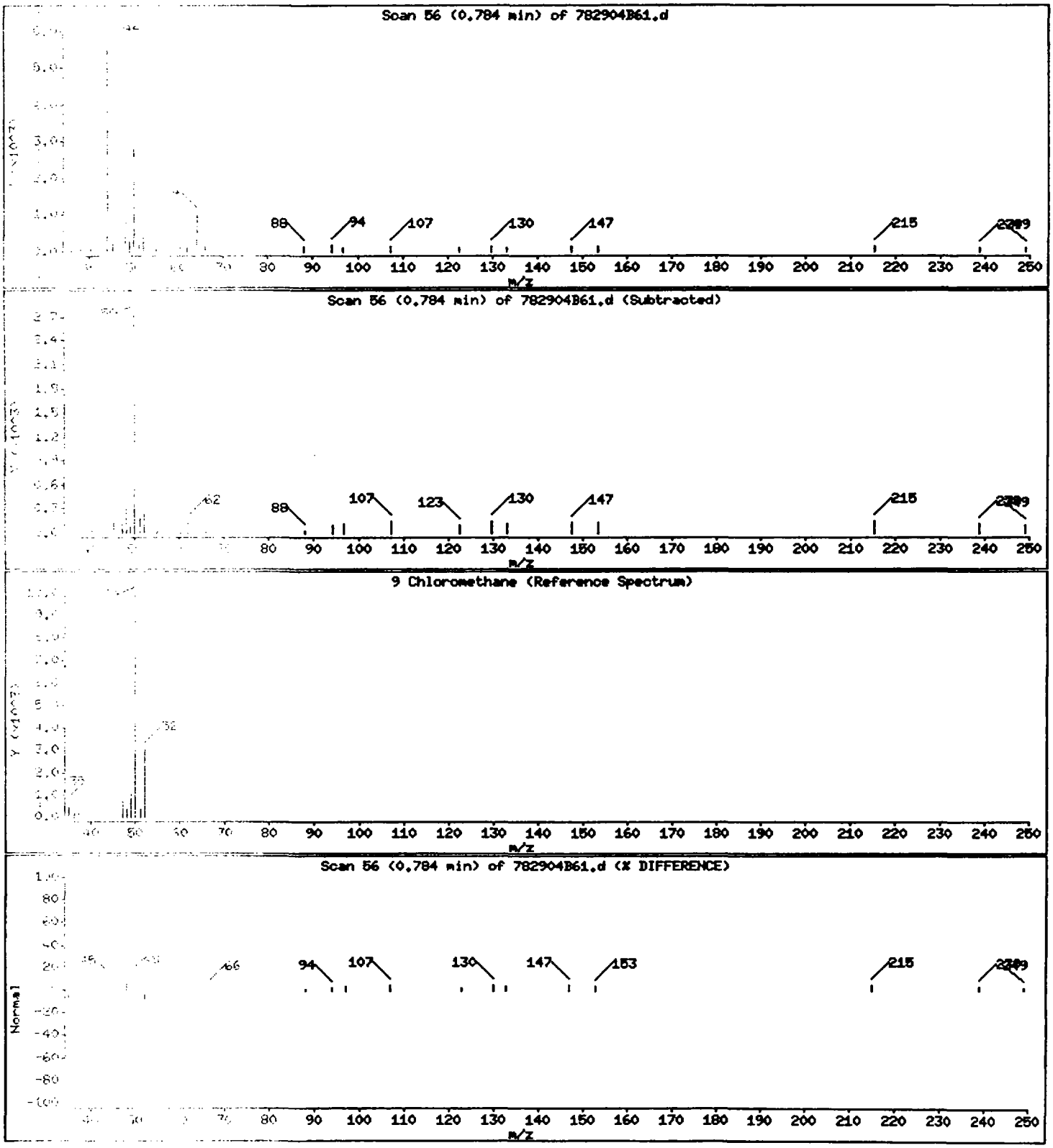
[illegible]

Instrument: 5973hp61.i

Operator: 2323

Column diameter: 0.18

Concentration: 0.24 ug/L



Data File: /chem/5973hp61.i/DF050928B61.b/782904B61.d
Report Date: 29-Sep-2005 23:31

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5973hp61.i/DF050928B61.b/782904B61.d
Lab Smp Id: 782904 Client Smp ID: ACSGWPWT26
Inj Date : 29-SEP-2005 00:43
Operator : 2323 Inst ID: 5973hp61.i
Smp Info : 782904:2323
Misc Info : 61
Comment :
Method : /chem/5973hp61.i/DF050928B61.b/W8260-B-25MLv9.m
Meth Date : 29-Sep-2005 03:48 harris Quant Type: ISTD
Cal Date : 27-SEP-2005 20:02 Cal File: CZ050927B61.d
Als bottle: 25
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TCL4.sub
Target Version: 3.50
Processing Host: dante

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWPWTB26

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBERTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 782906

Sample wt/vol: 25 (g/ml) ML Lab File ID: 782906B61

Level: (low/med) LOW Date Received: 09/27/05

% Moisture: not dec. _____ Date Analyzed: 09/28/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
75-15-0	Carbon disulfide	0.50	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	0.50	U
67-64-1	Acetone	2.1	JB
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene Chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl-tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.23	J
78-93-3	2-butanone	2.5	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	2.5	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-hexanone	2.5	U
124-48-1	Dibromochloromethane	0.50	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWPWTB26

ab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 782906

Sample wt/vol: 25 (g/ml) ML Lab File ID: 782906B61

Level: (low/med) LOW Date Received: 09/27/05

% Moisture: not dec. _____ Date Analyzed: 09/28/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.12	J
108-38-3	m,p-Xylene	0.78	J
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropyl Benzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-Chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
1330-20-7	Xylene (total)	0.82	
110-82-7	Cyclohexane	0.50	U
108-87-2	Methylcyclohexane	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWPWTB26

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 782906

Sample wt/vol: 25 (g/ml) ML Lab File ID: 782906B61

Level: (low/med) LOW Date Received: 09/27/05

% Moisture: not dec. _____ Date Analyzed: 09/28/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

Number TICs found: 1

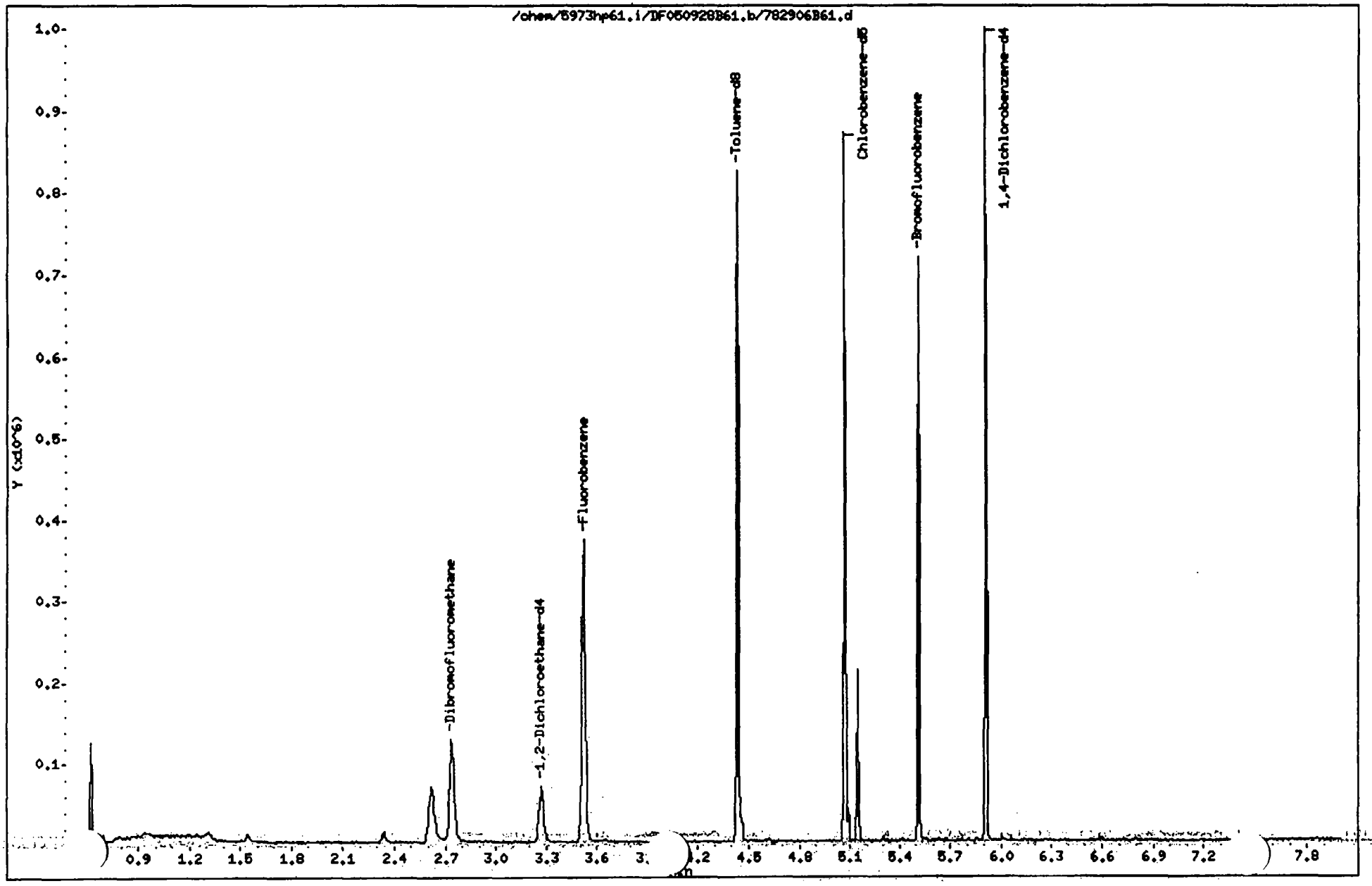
CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	1066-40-6	SILANOL, TRIMETHYL-	2.62	1.7	NJ
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I VOA-TIC

Data File: /chem/5973hp61.i/DF050928B61.b/782906B61.d
Date : 28-SEP-2005 22:50
Client ID: ACSGWPWTB26
Sample Info: 782906;2323
Purge Volume: 25.0
Column phase: RTX-VMS

Instrument: 5973hp61.i
Operator: 2323
Column diameter: 0.18



Data File: /chem/5973hp61.i/DF050928B61.b/782906B61.d
Report Date: 29-Sep-2005 01:45

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5973hp61.i/DF050928B61.b/782906B61.d
Lab Smp Id: 782906 Client Smp ID: ACSGWPWTB26
Inj Date : 28-SEP-2005 22:50
Operator : 2323 Inst ID: 5973hp61.i
Smp Info : 782906:2323
Misc Info : 61
Comment :
Method : /chem/5973hp61.i/DF050928B61.b/W8260-B-25MLv9.m
Meth Date : 29-Sep-2005 00:48 fertile Quant Type: ISTD
Cal Date : 27-SEP-2005 20:02 Cal File: CZ050927B61.d
Als bottle: 20
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TCL4.sub
Target Version: 3.50
Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	volume of water
DF	1.00000	dilution factor

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
* 1	Fluorobenzene	96	3.522	3.517	(1.000)	272688	125.000	
* 2	Chlorobenzene-d5	117	5.068	5.069	(1.000)	205470	125.000	
* 3	1,4-Dichlorobenzene-d4	152	5.907	5.901	(1.000)	110696	125.000	
$ 4	Dibromofluoromethane	113	2.739	2.733	(0.777)	78462	131.161	5.2
$ 5	1,2-Dichloroethane-d4	65	3.272	3.267	(0.929)	48087	119.947	4.8
$ 6	Toluene-d8	98	4.437	4.437	(0.875)	258257	125.886	5.0
$ 7	Bromofluorobenzene	95	5.515	5.510	(0.934)	96751	130.467	5.2
8	Dichlorodifluoromethane	85	Compound Not Detected.					
9	Chloromethane	50	Compound Not Detected.					
10	Vinyl Chloride	62	Compound Not Detected.					
11	Bromomethane	94	Compound Not Detected.					
12	Chloroethane	64	Compound Not Detected.					
13	Trichlorofluoromethane	101	Compound Not Detected.					
16	1,1-Dichloroethene	96	Compound Not Detected.					
18	Acetone	43	1.541	1.536	(0.437)	3622	52.1508	2.1(a)
20	1,1,2-trichloro-1,2,2-trifluo	85	Compound Not Detected.					

Data File: /chem/5973hp61.i/DF050928B61.b/782906B61.d
Report Date: 29-Sep-2005 01:45

	QUANT SIG MASS	RT	EXP RT	REL RT	RRESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
	76	Compound Not Detected.					
	43	Compound Not Detected.					
	84	Compound Not Detected.					
	96	Compound Not Detected.					
	73	Compound Not Detected.					
	63	Compound Not Detected.					
	96	2.341	2.336	(0.665)	4675	5.77003	0.23(a)
	43	Compound Not Detected.					
	83	Compound Not Detected.					
	97	Compound Not Detected.					
	84	Compound Not Detected.					
	117	Compound Not Detected.					
	62	Compound Not Detected.					
	78	Compound Not Detected.					
	130	Compound Not Detected.					
	83	Compound Not Detected.					
	63	Compound Not Detected.					
	83	Compound Not Detected.					
	75	Compound Not Detected.					
	43	Compound Not Detected.					
	92	Compound Not Detected.					
	75	Compound Not Detected.					
	97	Compound Not Detected.					
	164	Compound Not Detected.					
	43	Compound Not Detected.					
	129	Compound Not Detected.					
	107	Compound Not Detected.					
	112	Compound Not Detected.					
	106	5.090	5.090	(1.004)	3668	3.12410	0.12(a)
	106	5.145	5.145	(1.015)	28296	19.4353	0.78(a)
	106	Compound Not Detected.					
	104	Compound Not Detected.					
	173	Compound Not Detected.					
	105	Compound Not Detected.					
	83	Compound Not Detected.					
	146	Compound Not Detected.					
	146	Compound Not Detected.					
	146	Compound Not Detected.					
	75	Compound Not Detected.					
	180	Compound Not Detected.					
M	106				28296	20.5738	0.82

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

Data File: /chem/5973hp61.i/DF050928B61.b/782906B61.d

Date : 28-SEP-2005 22:50

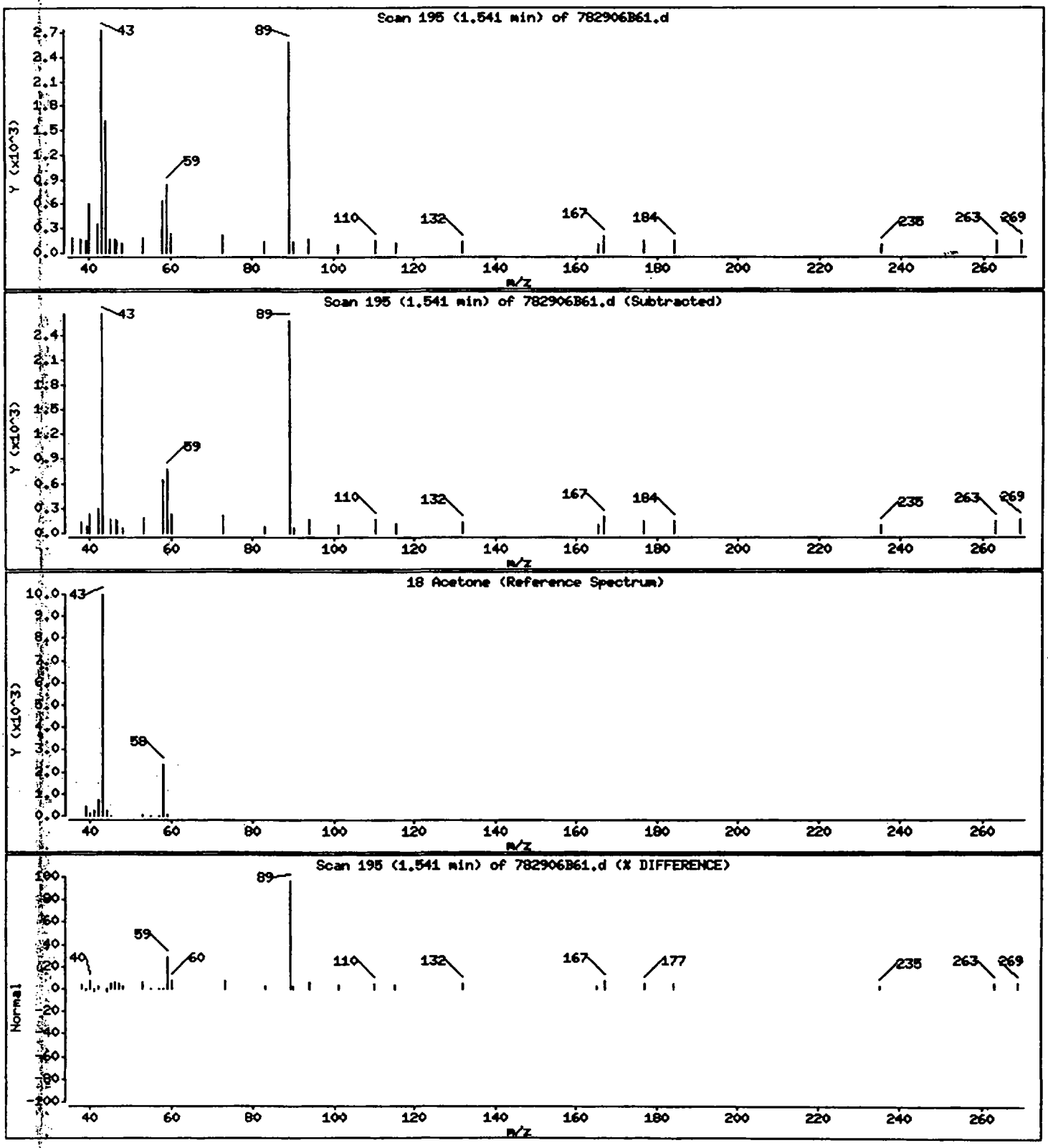
Client ID: ACSGWPWTB26 Instrument: 5973hp61.i

Sample Info: 782906;2323

Purge Volume: 25.0 Operator: 2323

Column phase: RTX-VMS Column diameter: 0.18

18 Acetone Concentration: 2.1 ug/L



Data File: /chem/5973hp61.i/DF050928B61.b/782906B61.d

Date : 28-SEP-2005 22:50

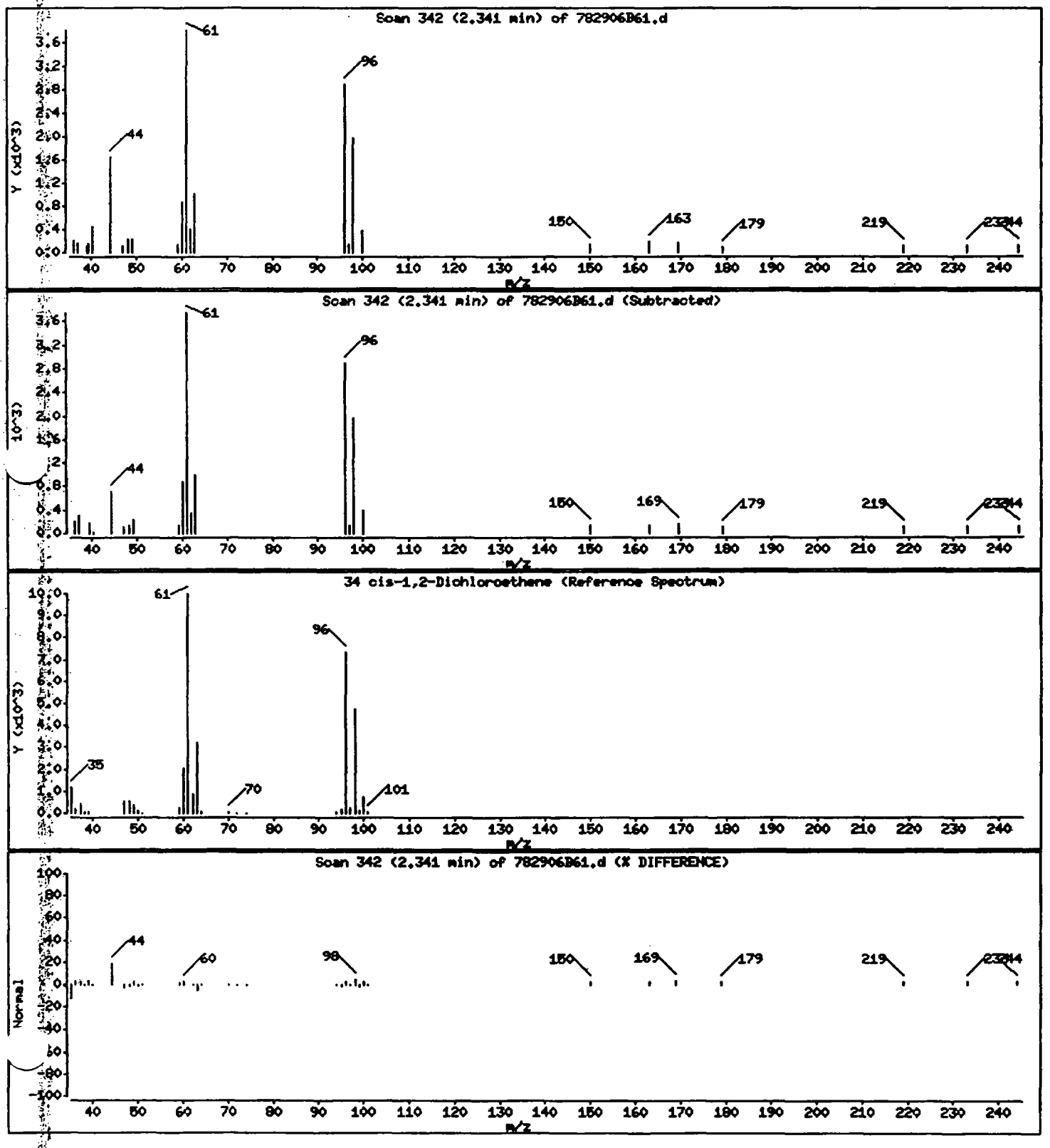
Client ID: ACSGWPWTB26 Instrument: 5973hp61.i

Sample Info: 782906;2323

Purge Volume: 25.0 Operator: 2323

Column phase: RTX-VMS Column diameter: 0.18

34 cis-1,2-Dichloroethene Concentration: 0.23 ug/L



Data File: /chem/5973hp61.i/DF050928B61.b/782906B61.d

Date : 28-SEP-2005 22:50

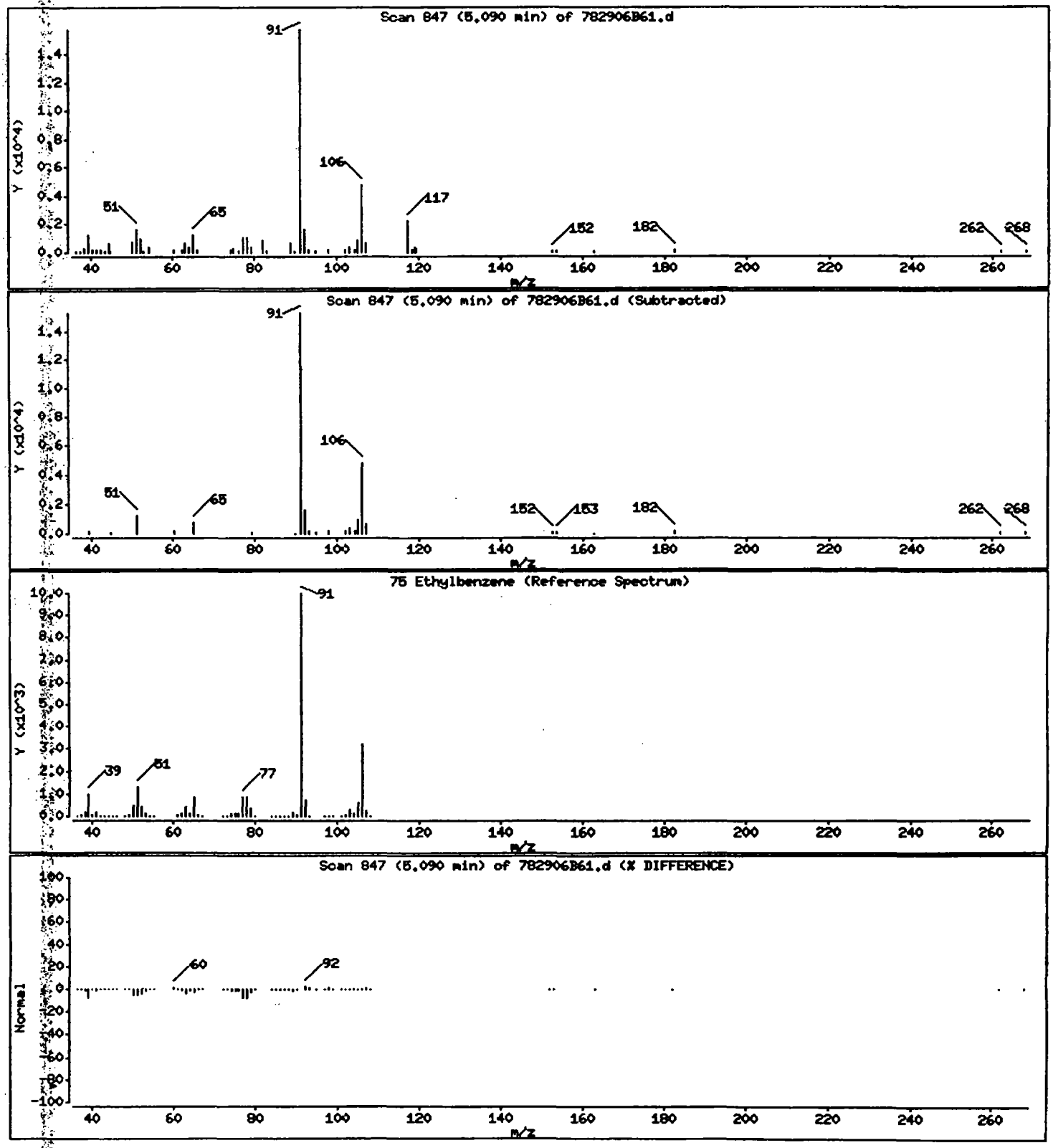
Client ID: ACSGMPWTB26 Instrument: 5973hp61.i

Sample Info: 782906;2323

Purge Volume: 25.0 Operator: 2323

Column phase: RTX-VMS Column diameter: 0.18

75 Ethylbenzene Concentration: 0.12 ug/L



Data File: \chem\5973hp61.i\DF050928B61.b\782906B61.d

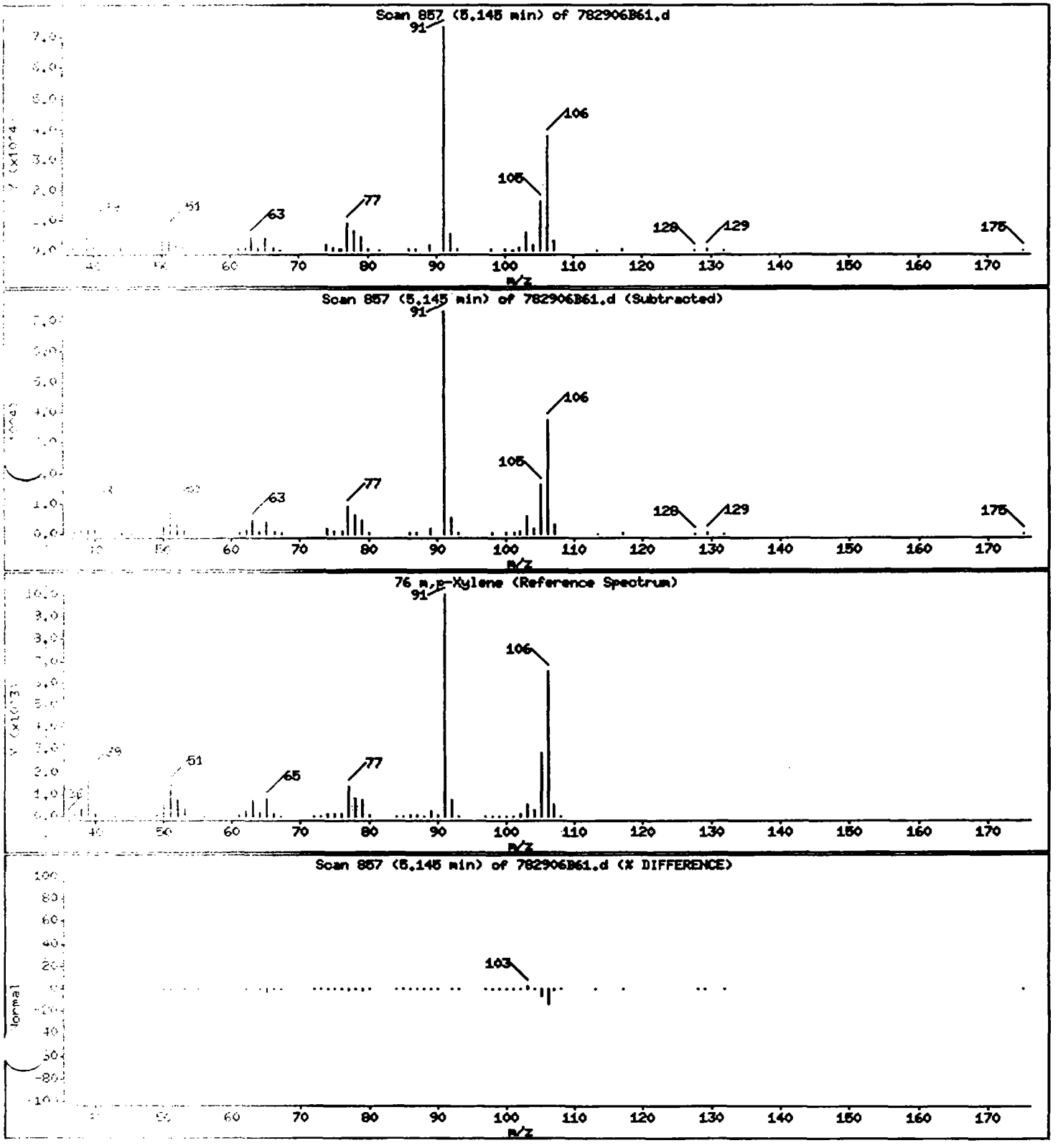
Date : 29-SEP-2006 22:50

Instrument: 5973hp61.i

Operator: 2323

Column diameter: 0.18

Concentration: 0.78 ug/L



Data File: /chem/5973hp61.i/DF050928B61.b/782906B61.d
Report Date: 29-Sep-2005 23:38

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5973hp61.i/DF050928B61.b/782906B61.d
Lab Smp Id: 782906 Client Smp ID: ACSGWPWTB26
Inj Date : 28-SEP-2005 22:50
Operator : 2323 Inst ID: 5973hp61.i
Smp Info : 782906:2323
Misc Info : 61
Comment :
Method : /chem/5973hp61.i/DF050928B61.b/W8260-B-25MLv9.m
Meth Date : 29-Sep-2005 03:48 harris Quant Type: ISTD
Cal Date : 27-SEP-2005 20:02 Cal File: CZ050927B61.d
Als bottle: 20
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TCL4.sub
Target Version: 3.50
Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	volume of water
DF	1.00000	dilution factor

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
* 1 Fluorobenzene	3.522	568020	125.000

	CONCENTRATIONS			QUANT			
RT	AREA	ON-COL(ng)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
Silanol, trimethyl-			CAS #: 1066-40-6				
2.619	190878	42.0050915	1.7	87	NBS75K.1	62980	1

Data File: /chem/5973hp61.i/DF050928B61.b/782906B61.d

Date : 28-SEP-2005 22:50

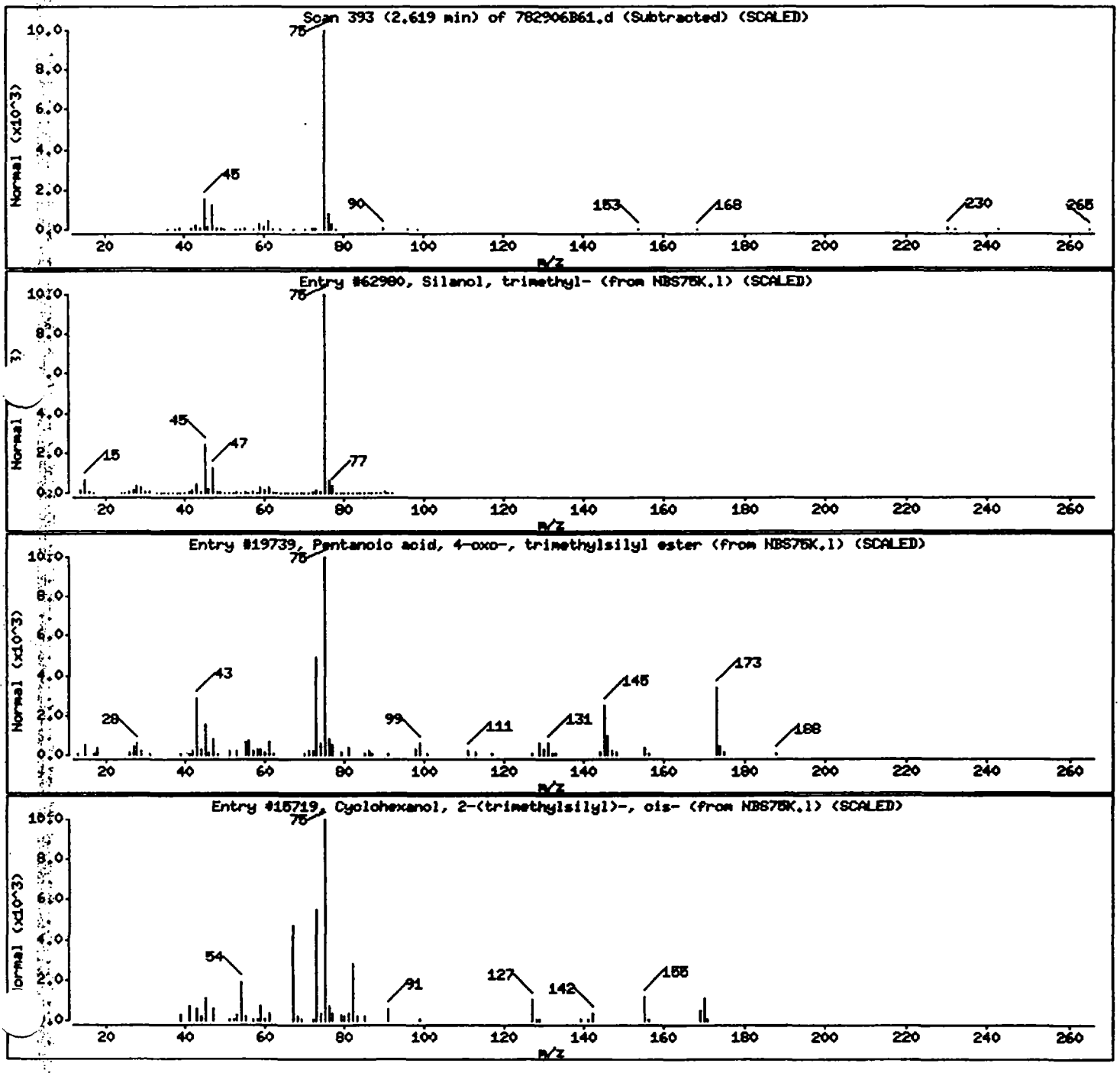
Client ID: ACSGWPWTB26 Instrument: 5973hp61.i

Sample Info: 782906;2323

Purge Volume: 25.0 Operator: 2323

Column phase: RTX-VMS Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Silanol, trimethyl-	1066-40-6	NBS75K.l	62980	87	C3H10OSi	90
Pentanoic acid, 4-oxo-, trimethylsilyl e	55557-12-5	NBS75K.l	19739	43	C8H16O3Si	188
Cyclohexanol, 2-(trimethylsilyl)-, cis-	20584-43-4	NBS75K.l	15719	43	C9H20OSi	172



3. Standards Data

a. Initial Calibration Data (Form VI VOA)

b. Continuing Calibration Data (Form VII VOA)

a. Initial Calibration Data (Form VI VOA)

If more than one instrument is used, forms shall be arranged in order by instrument. Multiple initial calibrations from the same instrument shall be in chronological order. Within each initial calibration, the standards are in order by level, from lowest to highest.

(1) Reconstructed Ion Chromatograms and quantitation reports for the initial (five-point) calibration. Spectra not required.

(2) EICPs displaying each manual integration.

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Instrument ID: 5973HP61 Calibration Date(s): 09/27/05 09/27/05

Column: RTX-VMS ID: 0.18 (mm) Calibration Time(s): 1812 2002

LAB FILE ID: RF0.5: CV050927B61RF1: CW050927B61 RF5: CX050927B61
RF10: CY050927B61 RF25: CZ050927B61

COMPOUND	RF0.5	RF1	RF5	RF10	RF25
Dichlorodifluoromethane	0.42649	0.41945	0.38426	0.38433	0.32797
Chloromethane	0.60170	0.68603	0.58314	0.52824	0.53397
Vinyl Chloride	0.39106	0.35251	0.32901	0.37920	0.30588
Bromomethane	0.26470	0.17359	0.14197	0.17315	0.17774
Chloroethane	0.19198	0.19481	0.15544	0.15584	0.14106
Trichlorofluoromethane	0.48369	0.45727	0.43424	0.46922	0.41035
1,1-Dichloroethene	0.31576	0.32792	0.28802	0.29813	0.25706
Carbon disulfide	0.96298	0.89399	0.89511	0.94649	0.83566
1,1,2-trichloro-1,2,2-triflu	0.13474	0.12916	0.12108	0.12150	0.10202
Acetone	0.03600	0.03266	0.02868	0.03500	0.02685
Methyl acetate	0.09445	0.09688	0.09694	0.07212	0.07699
Methylene Chloride	0.32386	0.29090	0.30572	0.29828	0.28169
trans-1,2-Dichloroethene	0.39188	0.37785	0.37200	0.36058	0.33819
Methyl-tert-butyl ether	0.36856	0.38890	0.37524	0.35006	0.38256
1,1-Dichloroethane	0.63716	0.65407	0.65169	0.60678	0.60650
cis-1,2-Dichloroethene	0.40580	0.35840	0.37717	0.35944	0.35622
2-butanone	0.04095	0.04611	0.04304	0.04005	0.04050
Chloroform	0.61161	0.66463	0.66542	0.67168	0.63632
1,1,1-Trichloroethane	0.57646	0.64137	0.60772	0.60411	0.57240
Carbon Tetrachloride	0.38816	0.44532	0.41516	0.41072	0.42966
Benzene	1.29083	1.32008	1.27983	1.29947	1.20368
1,2-Dichloroethane	0.27129	0.28501	0.28863	0.28555	0.27661
Trichloroethene	0.53208	0.49892	0.47084	0.44790	0.40520
1,2-Dichloropropane	0.27452	0.29158	0.29341	0.29385	0.27597
Bromodichloromethane	0.35737	0.34539	0.37285	0.36978	0.36442
cis-1,3-Dichloropropene	0.35919	0.36482	0.38091	0.38342	0.38501
4-Methyl-2-pentanone	0.12145	0.12872	0.13354	0.13012	0.12895
Toluene	1.26278	1.17648	1.10474	1.13080	1.05208
trans-1,3-Dichloropropene	0.31168	0.30762	0.36145	0.36294	0.37874
1,1,2-Trichloroethane	0.23163	0.23944	0.22361	0.22056	0.21362
Tetrachloroethene	0.54261	0.47734	0.42752	0.43030	0.39468
2-hexanone	0.09924	0.09115	0.09366	0.08566	0.09054
Dibromochloromethane	0.29353	0.28869	0.31137	0.32736	0.33544
1,2-Dibromoethane	0.25156	0.24971	0.24583	0.22882	0.22999
Chlorobenzene	1.38633	1.32158	1.26544	1.26796	1.19315
Ethylbenzene	0.75513	0.77028	0.69360	0.69751	0.65486
m,p-Xylene	0.94457	0.92465	0.86280	0.87553	0.82103
o-Xylene	0.88747	0.80778	0.84814	0.84142	0.79872
Styrene	1.20157	1.22631	1.20604	1.22056	1.20882
Bromoform	0.12667	0.14520	0.15955	0.17231	0.18071
Isopropyl Benzene	2.44766	2.12997	2.13779	2.18686	2.05104
1,1,2,2-Tetrachloroethane	0.45769	0.41063	0.41350	0.41239	0.39782
1,3-Dichlorobenzene	2.64835	2.11201	1.96711	2.03460	1.89353
1,4-Dichlorobenzene	2.58906	2.10652	1.96446	1.93971	1.83323

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Instrument ID: 5973HP61 Calibration Date(s): 09/27/05 09/27/05

Column: [illegible] ID: 0.18 (mm) Calibration Time(s): 1812 2002

LAB FILE RF0.5: CV050927B61RF1: CW050927B61 RF5: CX050927B61
RF10: [illegible]B61 RF25: CZ050927B61

COMPOUND	RF0.5	RF1	RF5	RF10	RF25
1,2-Dichlorobenzene	2.11838	1.69589	1.63328	1.69700	1.59731
1,2-Dibromo-3-Chloropropane	0.09285	0.06103	0.06170	0.06534	0.06849
1,2,4-Trichlorobenzene	2.28316	1.16937	0.96659	0.98372	0.94382
Xylene (total)	0.88747	0.80778	0.84814	0.84142	0.79872
Cyclohexane	0.38129	0.37606	0.36384	0.37094	0.32599
Methylcyclohexane	0.44195	0.42541	0.41876	0.42104	0.35345
Dibromofluoromethane	0.28225	0.27624	0.27576	0.27219	0.26466
1,2-Dichloroethane-d4	0.20226	0.19220	0.17329	0.18165	0.16947
Toluene-d8	1.42842	1.28386	1.17880	1.20754	1.14167
Bromofluorobenzene	1.06465	0.79230	0.77964	0.80273	0.74768

FORM VI VOA

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Instrument ID: 5973HP61 Calibration Date(s): 09/27/05 09/27/05

Column: RTX-VMS ID: 0.18 (mm) Calibration Time(s): 1812 2002

COMPOUND	CURVE	COEFFICENT A1	%RSD OR R^2	MAX %RSD OR R^2
Dichlorodifluoromethane	AVRG	0.38849830	10.052	90.000
Chloromethane	AVRG	0.58661493	10.882	90.000
Vinyl Chloride	AVRG	0.35153313	9.978	30.000
Bromomethane	AVRG	0.18623120	24.780	90.000
Chloroethane	AVRG	0.16782705	14.368	90.000
Trichlorofluoromethane	AVRG	0.45095539	6.440	90.000
1,1-Dichloroethene	AVRG	0.29738004	9.185	30.000
Carbon disulfide	AVRG	0.90684789	5.539	90.000
1,1,2-trichloro-1,2,2-triflu	AVRG	0.12169897	10.174	90.000
Acetone	AVRG	0.03183693	12.449	90.000
Methyl acetate	AVRG	0.08747691	13.678	90.000
Methylene Chloride	AVRG	0.30008989	5.329	90.000
trans-1,2-Dichloroethene	AVRG	0.36810008	5.479	90.000
Methyl-tert-butyl ether	AVRG	0.37306229	4.010	90.000
1,1-Dichloroethane	AVRG	0.63124210	3.702	90.000
cis-1,2-Dichloroethene	AVRG	0.37140483	5.646	90.000
2-butanone	AVRG	0.04213050	5.941	90.000
Chloroform	AVRG	0.64993215	3.910	30.000
1,1,1-Trichloroethane	AVRG	0.60041358	4.639	90.000
Carbon Tetrachloride	AVRG	0.41780705	5.125	90.000
Benzene	AVRG	1.27878057	3.480	90.000
1,2-Dichloroethane	AVRG	0.28142048	2.560	90.000
Trichloroethene	AVRG	0.47098739	10.278	90.000
1,2-Dichloropropane	AVRG	0.28586523	3.409	30.000
Bromodichloromethane	AVRG	0.36196202	3.031	90.000
cis-1,3-Dichloropropene	AVRG	0.37466947	3.156	90.000
4-Methyl-2-pentanone	AVRG	0.12855569	3.433	90.000
Toluene	AVRG	1.14537768	6.946	30.000
trans-1,3-Dichloropropene	AVRG	0.34448489	9.448	90.000
1,1,2-Trichloroethane	AVRG	0.22577335	4.433	90.000
Tetrachloroethene	AVRG	0.45449025	12.628	90.000
2-hexanone	AVRG	0.09205085	5.382	90.000
Dibromochloromethane	AVRG	0.31127869	6.560	90.000
1,2-Dibromoethane	AVRG	0.24118416	4.542	90.000
Chlorobenzene	AVRG	1.28689317	5.590	90.000
Ethylbenzene	AVRG	0.71427564	6.657	30.000
m,p-Xylene	AVRG	0.88571653	5.586	90.000
o-Xylene	AVRG	0.83670565	4.230	90.000
Styrene	AVRG	1.21266151	0.855	90.000
Bromoform	AVRG	0.15688811	13.752	90.000
Isopropyl Benzene	AVRG	2.19066669	6.924	90.000
1,1,2,2-Tetrachloroethane	AVRG	0.41840797	5.460	90.000
1,3-Dichlorobenzene	AVRG	2.13112210	14.088	90.000
1,4-Dichlorobenzene	AVRG	2.08659498	14.248	90.000

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Instrument ID: 5973HP61 Calibration Date(s): 09/27/05 09/27/05

Column: RTX-VMS ID: 0.18 (mm) Calibration Time(s): 1812 2002

COMPOUND	CURVE	COEFFICENT A1	%RSD OR R^2	MAX %RSD OR R^2
1,2-Dichlorobenzene	AVRG	1.74837156	12.078	90.000
1,2-Dibromo-3-Chloropropane	AVRG	0.06988386	18.864	90.000
1,2,4-Trichlorobenzene	AVRG	1.26933238	45.206	90.000
Xylene (total)	AVRG	0.83670565	4.230	90.000
Cyclohexane	AVRG	0.36362418	6.051	90.000
Methylcyclohexane	AVRG	0.41212380	8.257	90.000
Dibromofluoromethane	AVRG	0.27422056	2.352	90.000
1,2-Dichloroethane-d4	AVRG	0.18377390	7.360	90.000
Toluene-d8	AVRG	1.24805853	9.098	90.000
Bromofluorobenzene	AVRG	0.83740001	15.370	90.000

Average %RSD test result.

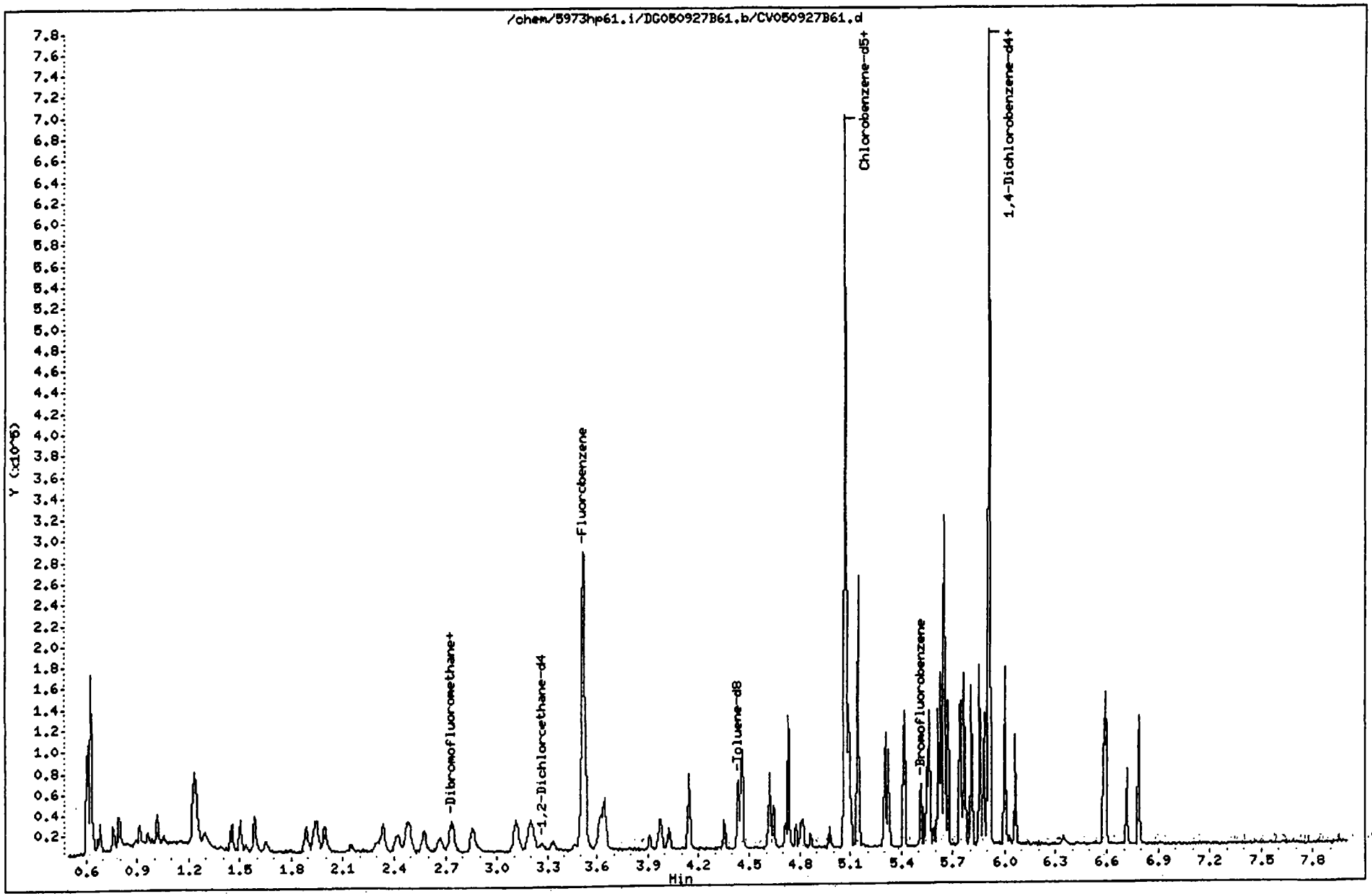
Calculate Average %RSD: 9.577835083
Maximum Average %RSD: 15.00000000

Note: Passes Average %RSD Test.

FORM VI VOA

Data File: /chem/5973hp61.i/DC050927B61.b/CV050927B61.d
Date : 27-SEP-2005 18:12
Client ID: VSTD0.5
Sample Info: VSTD0.5:2323
Purge Volume: 25.0
Column phase: RTX-VMS

Instrument: 5973hp61.i
Operator: 2323
Column diameter: 0.18



Data P... /chem/5973hp61.i/DG050927B61.b/CV050927B61.d
Report Date: 28-Sep-2005 02:50

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data ... /chem/5973hp61.i/DG050927B61.b/CV050927B61.d
Lab Smp ID: VSTD0.5 Client Smp ID: VSTD0.5
Inj Date : 27-SEP-2005 18:12
Operator : 2222 Inst ID: 5973hp61.i
Smp Info : VSTD0.5:2323
Misc Info : 61
Comment :
Method : /chem/5973hp61.i/DG050927B61.b/W8260-B-25MLv9.m
Meth Date : 28 Sep-2005 02:50 fertile Quant Type: ISTD
Cal Date : 27-SEP-2005 18:12 Cal File: CV050927B61.d
Als bottle : 14 Calibration Sample, Level: 1
Dil Factor : 1.00000
Integrator: HP RTE Compound Sublist: DC.sub
Target Ver. : 3.50
Processing host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	volume of water
DF	1.00000	dilution factor

CpndVariable Local Compound Variable

Compound	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	
* [illegible]	96	3.523	3.523	(1.000)	219912	125.000		
* [illegible]	117	5.069	5.069	(1.000)	157019	125.000		
* [illegible]	152	5.907	5.907	(1.000)	87024	125.000		
S [illegible]	113	2.744	2.744	(0.779)	6207	12.5000	13	
S [illegible]	65	3.267	3.267	(0.927)	4448	12.5000	14(H)	2
S [illegible]	98	4.437	4.437	(0.875)	22429	12.5000	14	
S [illegible]	95	5.515	5.515	(0.934)	9265	12.5000	16	
8 [illegible]dichloromethane	85	0.687	0.687	(0.195)	9379	12.5000	14	
9 [illegible]	50	0.757	0.757	(0.215)	13232	12.5000	13	
10 [illegible]	62	0.790	0.790	(0.224)	8600	12.5000	14	
11 [illegible]	94	0.915	0.915	(0.260)	5821	12.5000	18	
12 [illegible]	64	0.964	0.964	(0.274)	4222	12.5000	14(M)	2
13 Trichlorofluoromethane	101	1.019	1.019	(0.289)	10637	12.5000	13	
14 Acrolein	56	1.389	1.389	(0.394)	1753	125.000	130(H)	2
15 [illegible]	96	1.231	1.231	(0.349)	6944	12.5000	13	

9/28/05

Data File: /chem/5973hp61.i/DG050927B61.b/CV050927B61.d
Report Date: 28-Sep-2005 02:50

Compound	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	
[illegible]	117	1.226	1.226	(0.348)	3906	12.5000	15	
[illegible]	85	1.247	1.247	(0.354)	2963	12.5000	14	
[illegible]	43	1.541	1.541	(0.438)	3958	62.5000	71	
[illegible]	142	1.296	1.296	(0.368)	8690	12.5000	16	
[illegible]	76	1.242	1.242	(0.353)	21177	12.5000	13	
[illegible]	39	1.454	1.454	(0.413)	8468	12.5000	17	
[illegible]	41	1.797	1.797	(0.510)	389	12.5000	17	(MH)
[illegible]	43	1.612	1.612	(0.458)	2077	12.5000	13	2
[illegible]	84	1.503	1.503	(0.427)	7122	12.5000	13	
[illegible]	53	1.993	1.993	(0.566)	14602	125.000	120	(H)
[illegible]	96	1.585	1.585	(0.450)	8618	12.5000	13	2
[illegible]	73	1.661	1.661	(0.472)	8105	12.5000	12	
[illegible]	63	1.950	1.950	(0.553)	14012	12.5000	13	
[illegible]	43	2.151	2.151	(0.611)	8443	25.0000	21	(H) 2
[illegible]	45	1.890	1.890	(0.536)	17519	12.5000	12	
[illegible]	77	2.423	2.423	(0.688)	9661	12.5000	13	
[illegible]	96	2.336	2.336	(0.663)	8924	12.5000	14	
[illegible]	53	1.933	1.933	(0.549)	9514	12.5000	12	
[illegible]	43	2.897	2.897	(0.822)	4503	62.5000	61	
[illegible]	54	3.185	3.185	(0.904)	14246	625.000	670	
[illegible]	41	3.202	3.202	(0.909)	14456	125.000	120	
[illegible]	128	2.488	2.488	(0.706)	3200	12.5000	14	
[illegible]	83	2.576	2.576	(0.731)	13450	12.5000	12	
[illegible]	97	2.733	2.733	(0.776)	12677	12.5000	12	
[illegible]	84	2.483	2.483	(0.705)	8385	12.5000	13	
[illegible]	43	3.474	3.474	(0.986)	3678	625.000	580	
[illegible]	75	2.859	2.859	(0.811)	10345	12.5000	13	
[illegible]	117	2.668	2.668	(0.757)	8536	12.5000	12	
[illegible]	78	3.114	3.114	(0.884)	28387	12.5000	13	
[illegible]	62	3.332	3.332	(0.946)	5966	12.5000	12	(H) 2
[illegible]	130	3.642	3.642	(1.034)	11701	12.5000	14	
[illegible]	83	3.621	3.621	(1.028)	9719	12.5000	13	
[illegible]	63	3.969	3.969	(1.127)	6037	12.5000	12	
[illegible]	174	3.909	3.909	(1.110)	3068	12.5000	12	
[illegible]	69	4.143	4.143	(1.176)	13372	125.000	110	
[illegible]	88	4.143	4.143	(1.176)	1390	625.000	640	
[illegible]	83	4.018	4.018	(1.141)	7859	12.5000	12	
[illegible]	75	4.350	4.350	(1.235)	7899	12.5000	12	(H) 2
[illegible]	43	4.644	4.644	(0.916)	9535	62.5000	59	
[illegible]	92	4.459	4.459	(0.880)	19828	12.5000	14	
[illegible]	75	4.650	4.650	(0.917)	4894	12.5000	11	(H) 4
[illegible]	69	4.731	4.731	(0.933)	29698	125.000	120	
[illegible]	97	4.715	4.715	(0.930)	3637	12.5000	13	
[illegible]	76	4.818	4.818	(0.951)	6049	12.5000	13	
[illegible]	164	4.622	4.622	(0.912)	8520	12.5000	15	
[illegible]	43	4.976	4.976	(0.982)	7791	62.5000	67	
[illegible]	129	4.780	4.780	(0.943)	4609	12.5000	12	

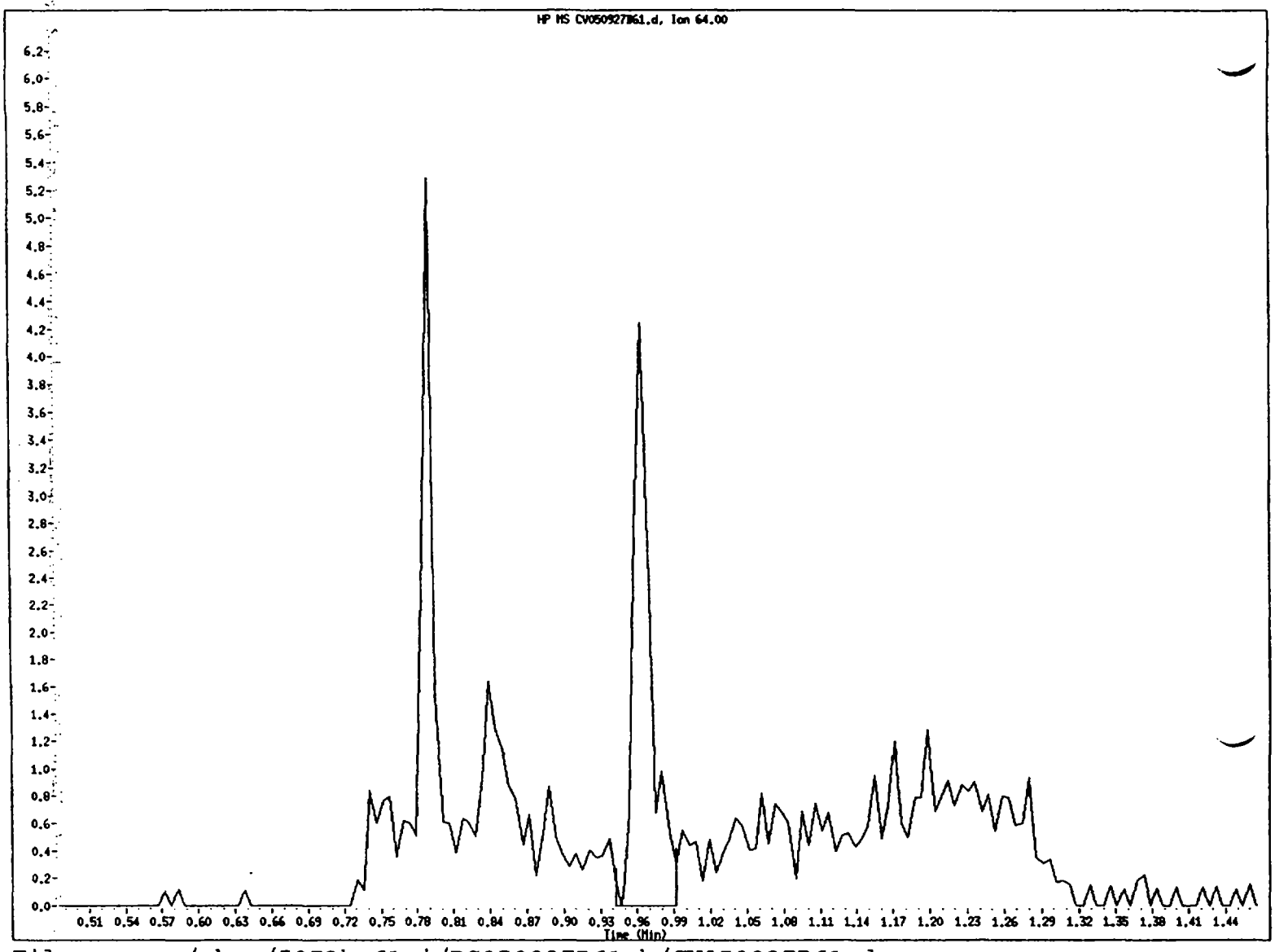
Data File: /chem/5973hp61.i/DG050927B61.b/CV050927B61.d
Report Date: 28-Sep-2005 02:50

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	
71	1,2-Dibromoethane	107	4.867	4.867	(0.960)	3950	12.5000	13	
72	Chlorobenzene	112	5.074	5.074	(1.001)	21768	12.5000	13	
74	1,1,1,2-Tetrachloroethane	131	5.101	5.101	(1.006)	5818	12.5000	12	
75	Ethylbenzene	106	5.090	5.090	(1.004)	11857	12.5000	13	
76	m,p-Xylene	106	5.145	5.145	(1.015)	29663	25.0000	27	
77	o-Xylene	106	5.303	5.303	(1.046)	13935	12.5000	13	
78	Styrene	104	5.319	5.319	(1.049)	18867	12.5000	12	
79	Bromoform	173	5.325	5.325	(1.050)	1989	12.5000	10 (M)	
81	Isopropyl Benzene	105	5.417	5.417	(1.069)	38433	12.5000	14	2
82	1,1,2,2-Tetrachloroethane	83	5.586	5.586	(0.946)	3983	12.5000	14	
84	Bromobenzene	156	5.548	5.548	(1.095)	9725	12.5000	14	
83	1,2,3-Trichloropropane	110	5.635	5.635	(1.112)	1000	12.5000	14	
85	trans-1,4-dichloro-2-butene	53	5.651	5.651	(1.115)	26613	500.000	440	
86	n-Propyl Benzene	91	5.564	5.564	(0.942)	48414	12.5000	14	
87	2-Chlorotoluene	126	5.613	5.613	(0.950)	11306	12.5000	14	
89	1,3,5-Trimethyl Benzene	105	5.629	5.629	(0.953)	35058	12.5000	14	
88	4-Chlorotoluene	126	5.673	5.673	(0.960)	11748	12.5000	15	
91	tert-Butyl Benzene	119	5.744	5.744	(0.972)	32003	12.5000	13	
92	1,2,4-Trimethyl Benzene	105	5.765	5.765	(0.976)	36229	12.5000	14	
93	sec-Butyl Benzene	105	5.804	5.804	(0.982)	45295	12.5000	15	
94	1,3-Dichlorobenzene	146	5.880	5.880	(0.995)	23047	12.5000	16	
95	p-Isopropyl Toluene	119	5.853	5.853	(0.991)	41416	12.5000	16	
96	1,4-Dichlorobenzene	146	5.912	5.912	(1.001)	22531	12.5000	16	
99	n-Butyl Benzene	91	6.000	6.000	(1.016)	39931	12.5000	17	
	1,2-Dichlorobenzene	146	6.059	6.059	(1.026)	18435	12.5000	15	
	1,2-Dibromo-3-Chloropropane	75	6.348	6.348	(1.075)	808	12.5000	17 (MH)	
102	1,2,4-Trichlorobenzene	180	6.593	6.593	(1.116)	19869	12.5000	22	2
103	Hexachlorobutadiene	225	6.582	6.582	(1.114)	9854	12.5000	20	
104	Naphthalene	128	6.718	6.718	(1.137)	24166	12.5000	22	
105	1,2,3-Trichlorobenzene	180	6.789	6.789	(1.149)	18167	12.5000	25	
M 106	1,2-Dichloroethene (total)	96				17542	25.0000	27	
M 107	Xylene (total)	106				43598	12.5000	41	

QC Flag Legend

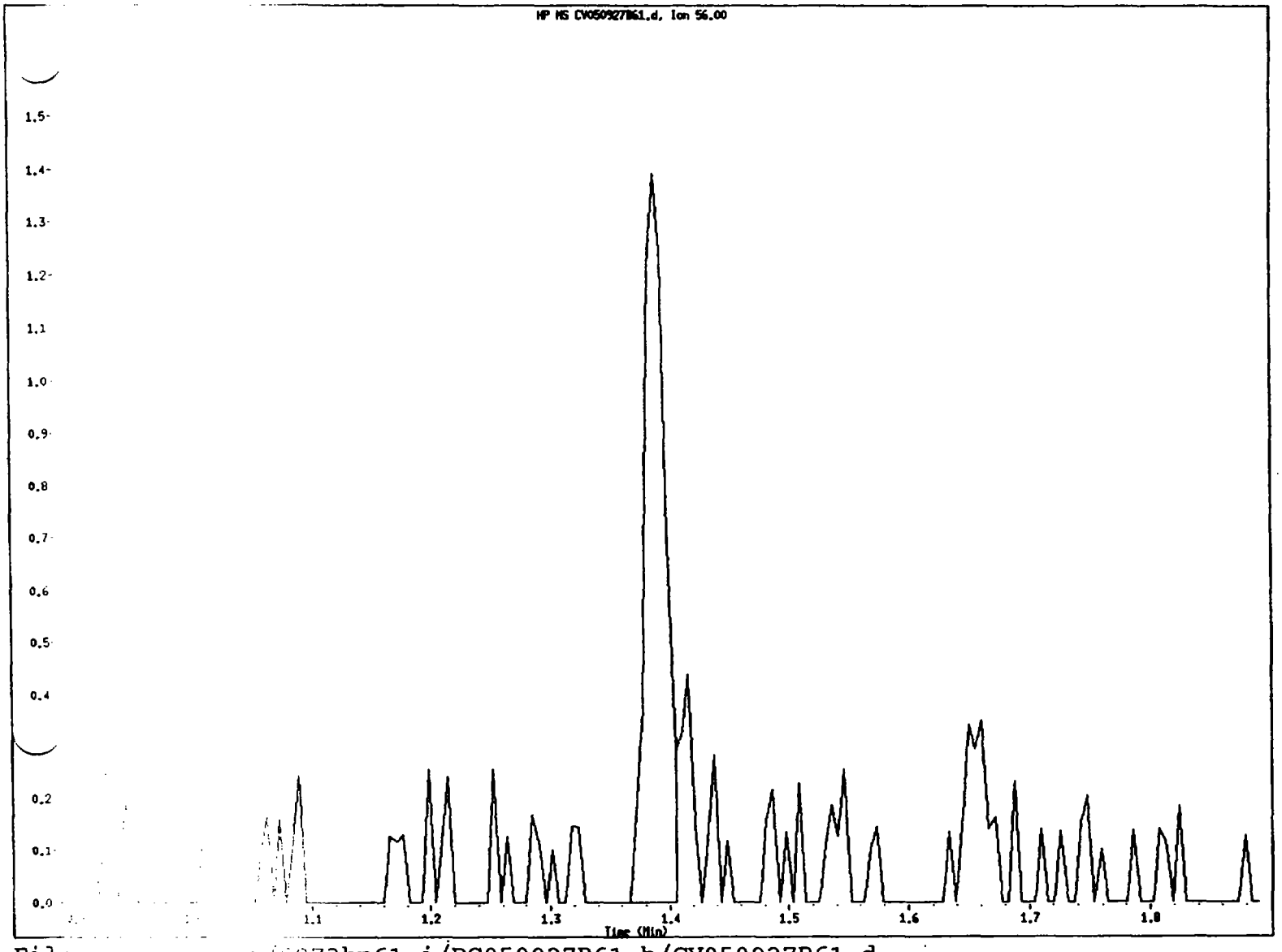
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Chloroethane CAS Number 75-00-3 Area = 4222 Manually integrated



File name: /chem/5973hp61.i/DG050927B61.b/CV050927B61.d
Client ID: VSTD0.5
Instrument ID: 5973hp61.i
Injection Date and Time: 27-SEP-2005 18:12
Retention Time: 0.96
Operator ID: 2323

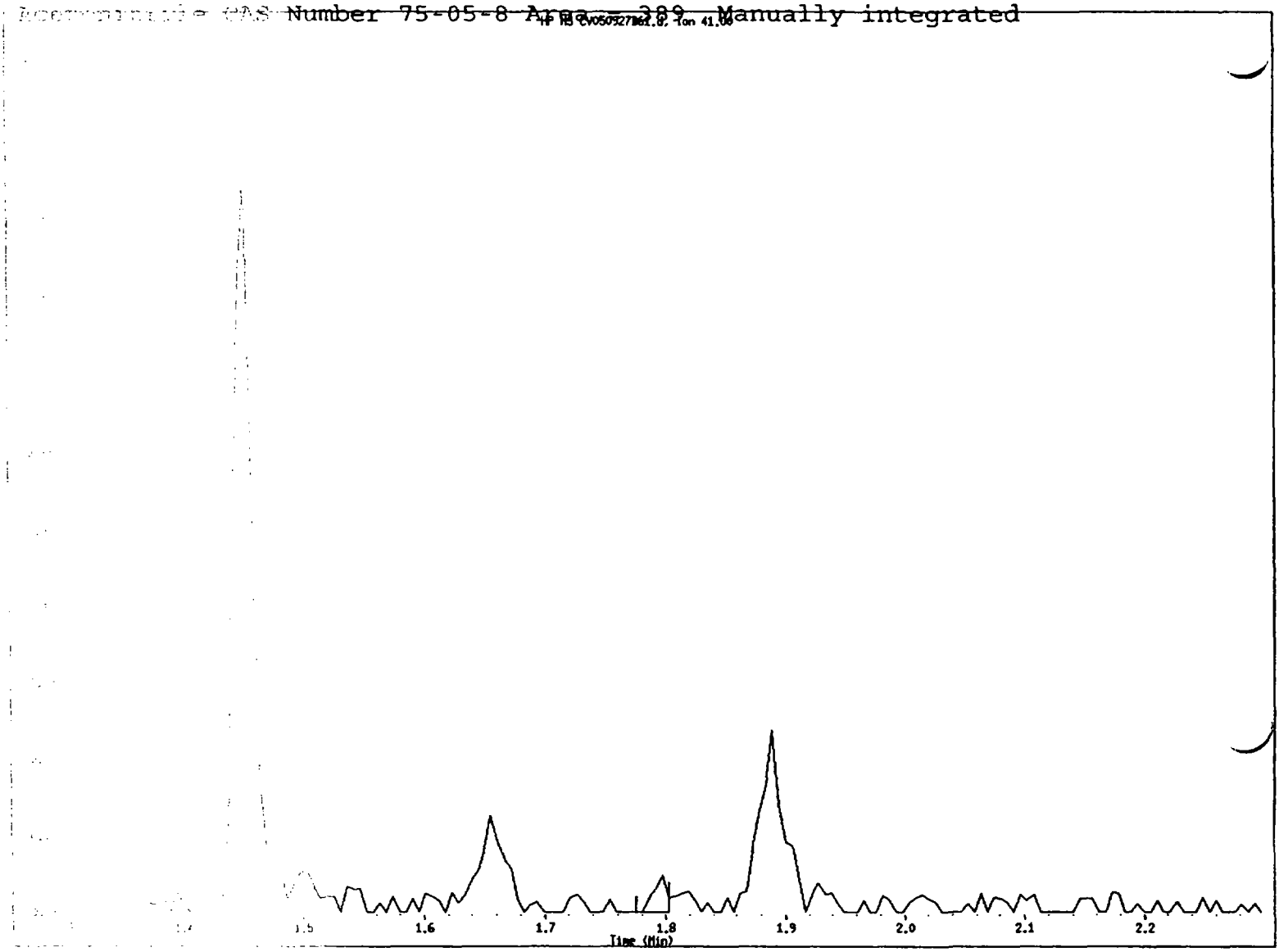
Ac[illegible] [illegible]umber 107-02-8 Area = 1753 User selected hit



File [illegible]973hp61.i/DG050927B61.b/CV050927B61.d
Clie[illegible]
Inst[illegible]73hp61.i
Inje[illegible]nd Time: 27-SEP-2005 18:12
Rete[illegible]1.39
Oper[illegible]23

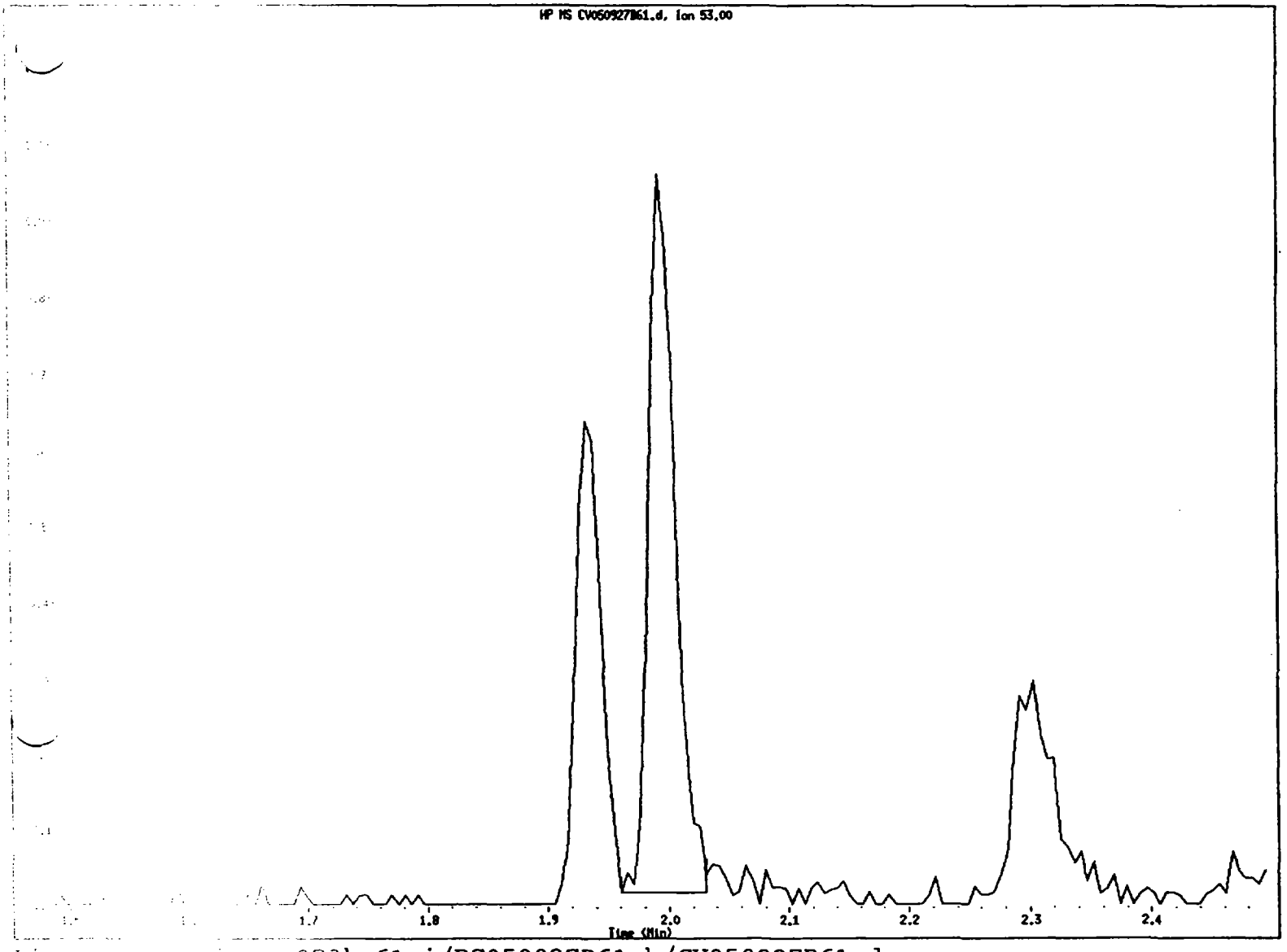
Acetonitrile CAS Number 75-05-8 Area = 389 User selected hit

Acetonitrile CAS Number 75-05-8 Area = 389 Manually integrated



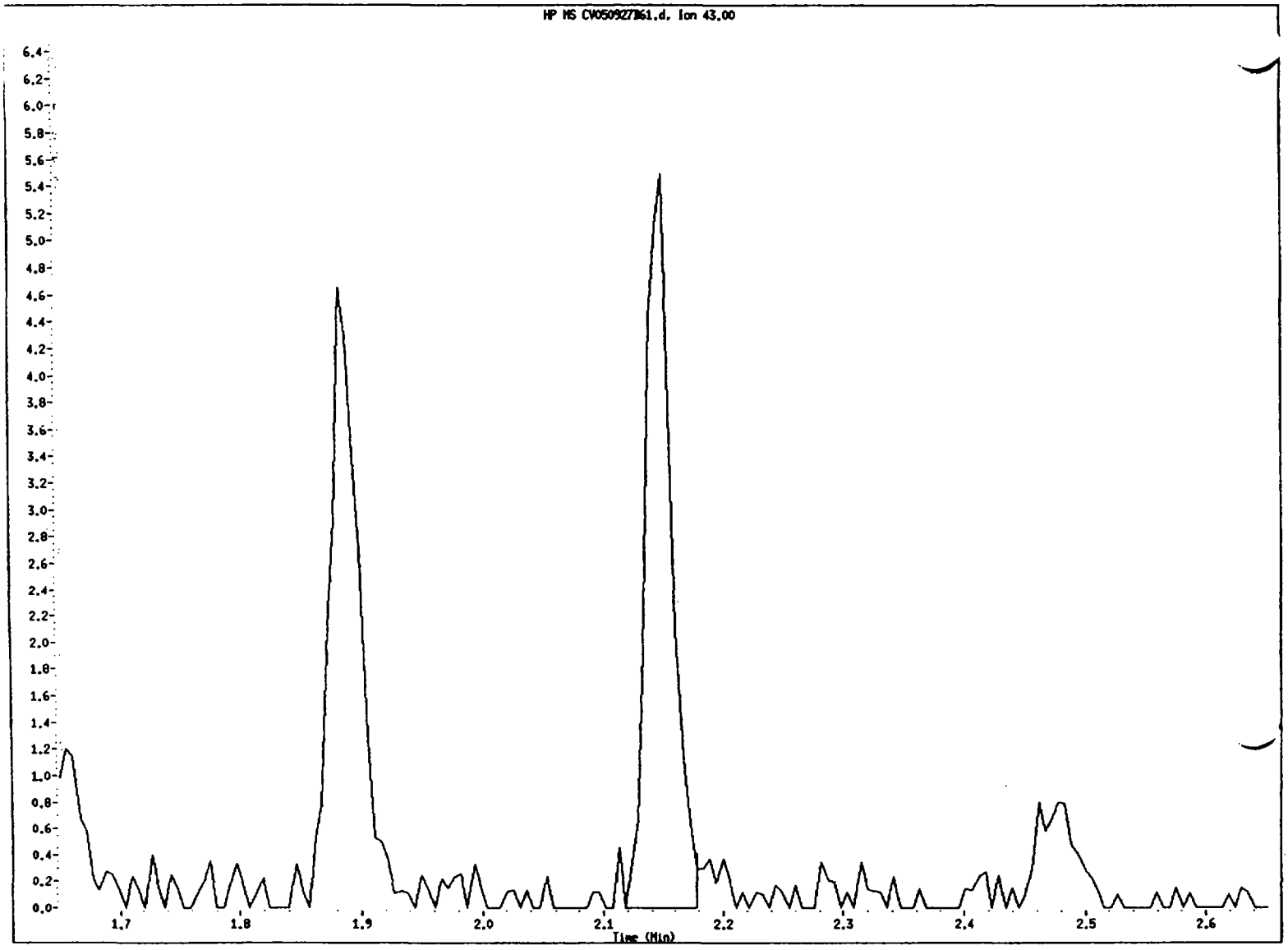
File [illegible]/5973hp61.i/DG050927B61.b/CV050927B61.d
Client ID: VBLK1
Instrument ID: 5973hp61.i
Injection Date and Time: 27-SEP-2005 18:12
Retention Time: 1.80
Operator ID: [illegible]

Acrylonitrile CAS Number 107-13-1 Area = 14602 User selected hit



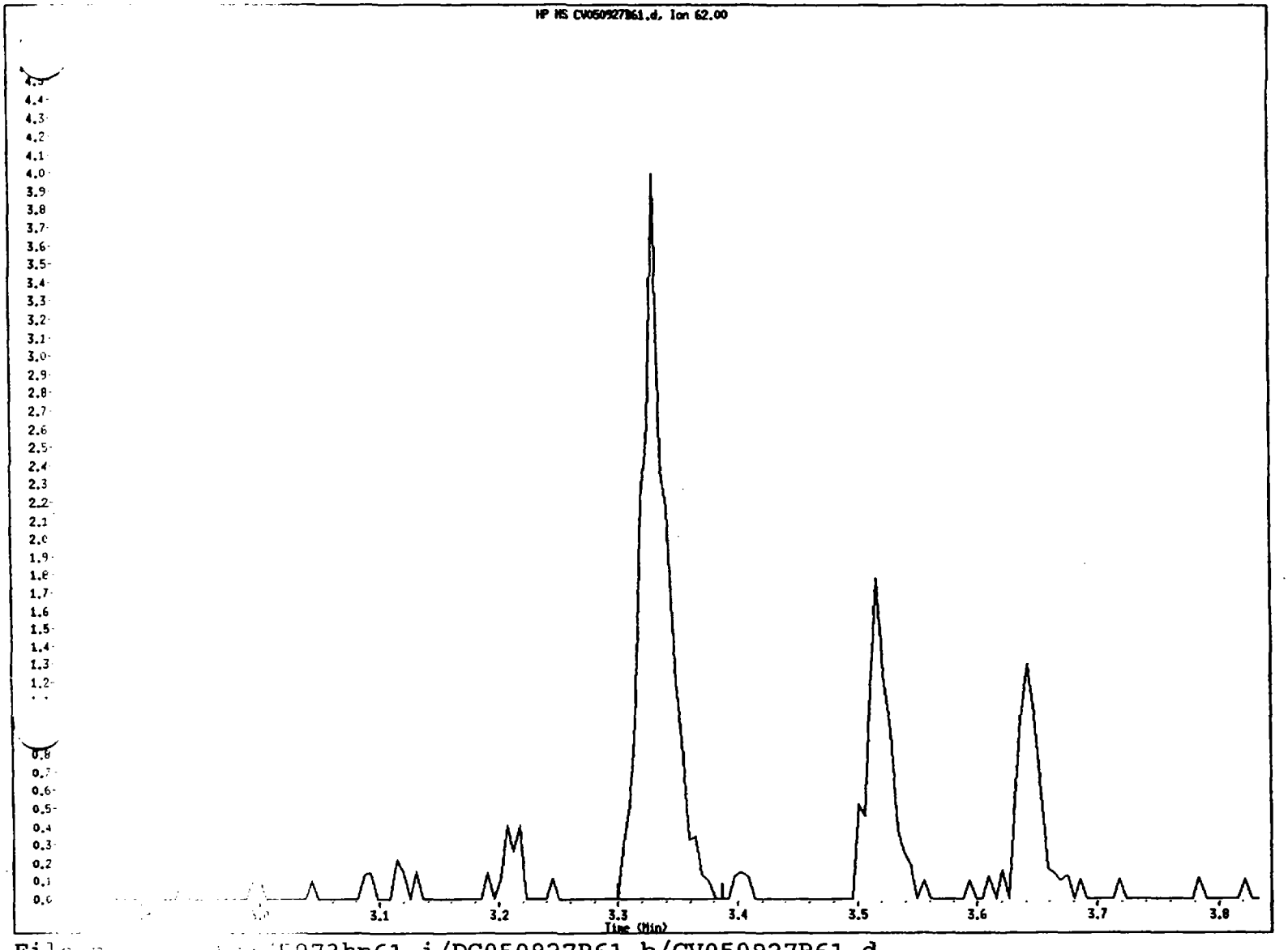
File: C:\Chem\5973hp61.i\DG050927B61.b\CV050927B61.d
Client ID: VSTD1.5
Instrument ID: 5973hp61.i
Injection Date and Time: 27-SEP-2005 18:12
Retention Time: 1.99
Operator ID: 2223

Vinyl acetate CAS Number 108-05-4 Area = 8443 User selected hit



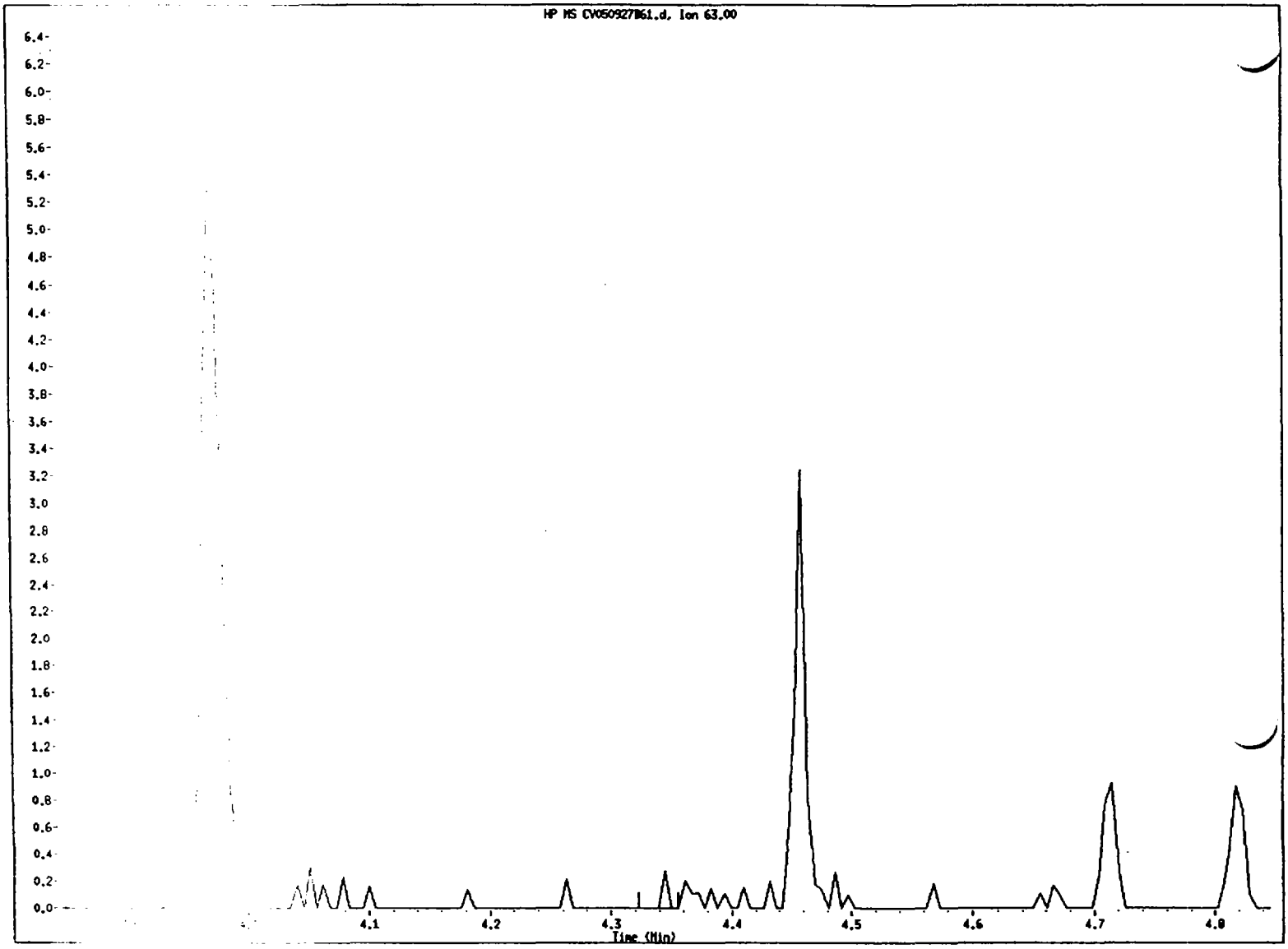
File name: /chem/5973hp61.i/DG050927B61.b/CV050927B61.d
Client ID: VSTD0.5
Instrument ID: 5973hp61.i
Injection Date and Time: 27-SEP-2005 18:12
Retention Time: 2.15
Operator ID: 2323

1,[illegible]ane CAS Number 107-06-2 Area = 5966 User selected hit



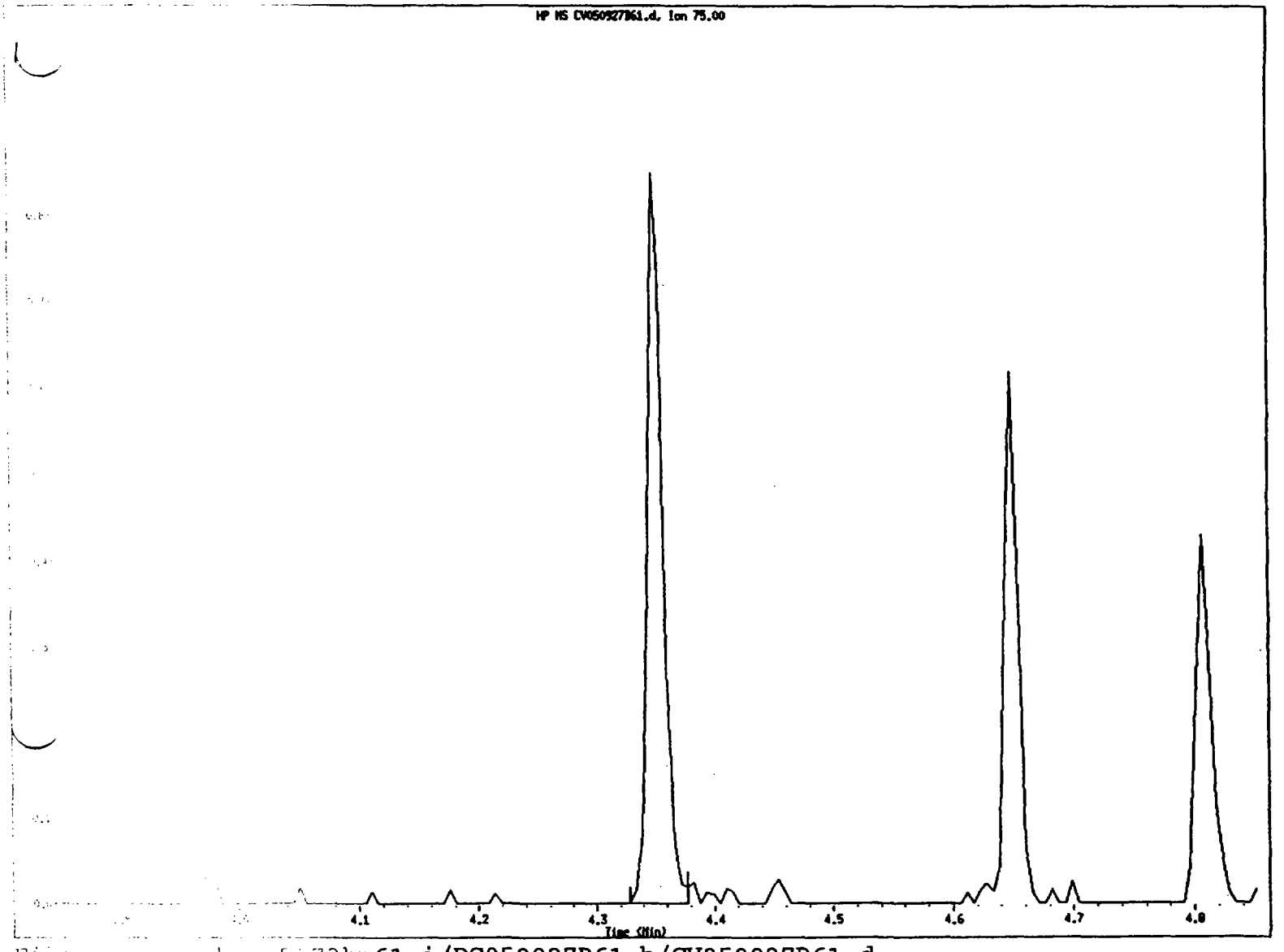
File [illegible]5973hp61.i/DG050927B61.b/CV050927B61.d
Client [illegible]STD.5
Instrument ID: 5973hp61.i
Injection Date and Time: 27-SEP-2005 18:12
Retention Time: 3.33
Operator ID: 3323

2-chloroethyl vinyl ether CAS Number 110-75-8 Area = 90 Manually integrated



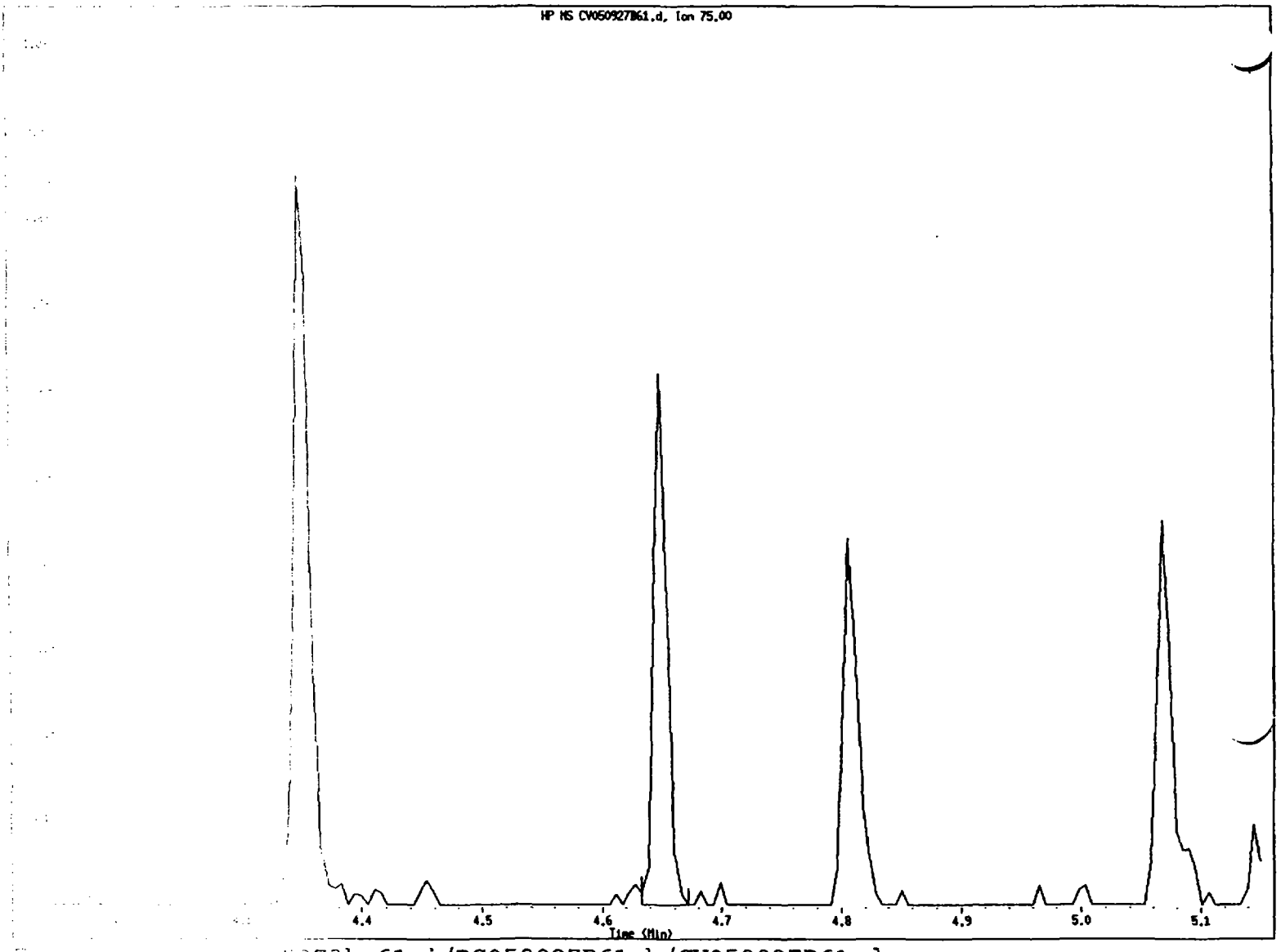
File [illegible]973hp61.i/DG050927B61.b/CV050927B61.d
Client [illegible]
Instrument [illegible]973hp61.i
Injection Date and Time: 27-SEP-2005 18:12
Retention Time: 4.34
Operator ID: 2323

1,3-Dichloropropene CAS Number 10061-01-5 Area = 7899 User selected hit



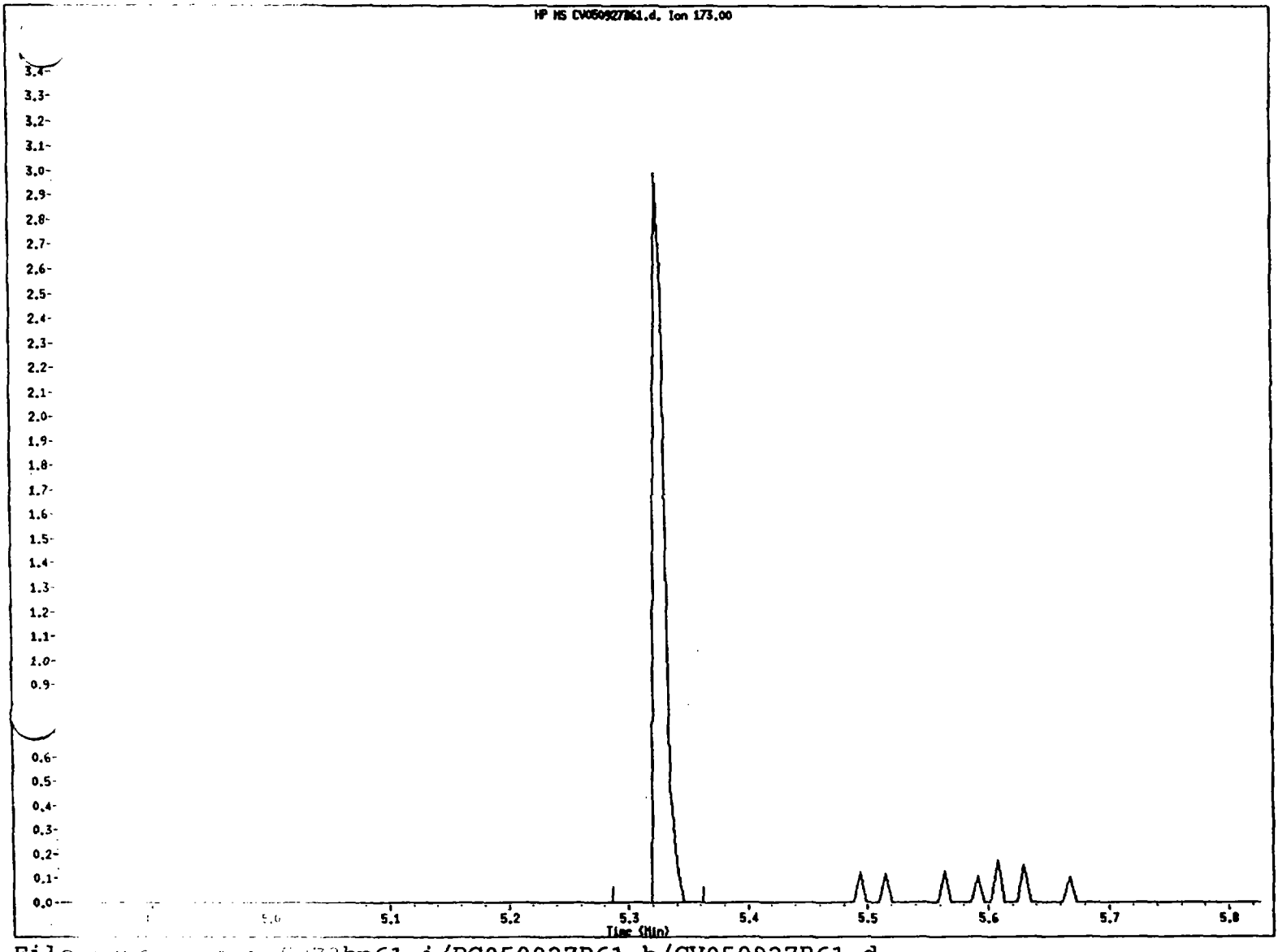
File Name: /chem/5973hp61.i/DG050927B61.b/CV050927B61.d
Client ID: 0.5TD
Instrument ID: 5973hp61.i
Injection Date and Time: 27-SEP-2005 18:12
Retention Time: 4.35
Operator ID: 2323

trans 1,3-Dichloropropene CAS Number 10061-02-6 Area = 4894 User selected hit



F: ...5973hp61.i/DG050927B61.b/CV050927B61.d
C...
I...5973hp61.i
I... Time: 27-SEP-2005 18:12
Retention time: 4.65
Operator ID: 2323

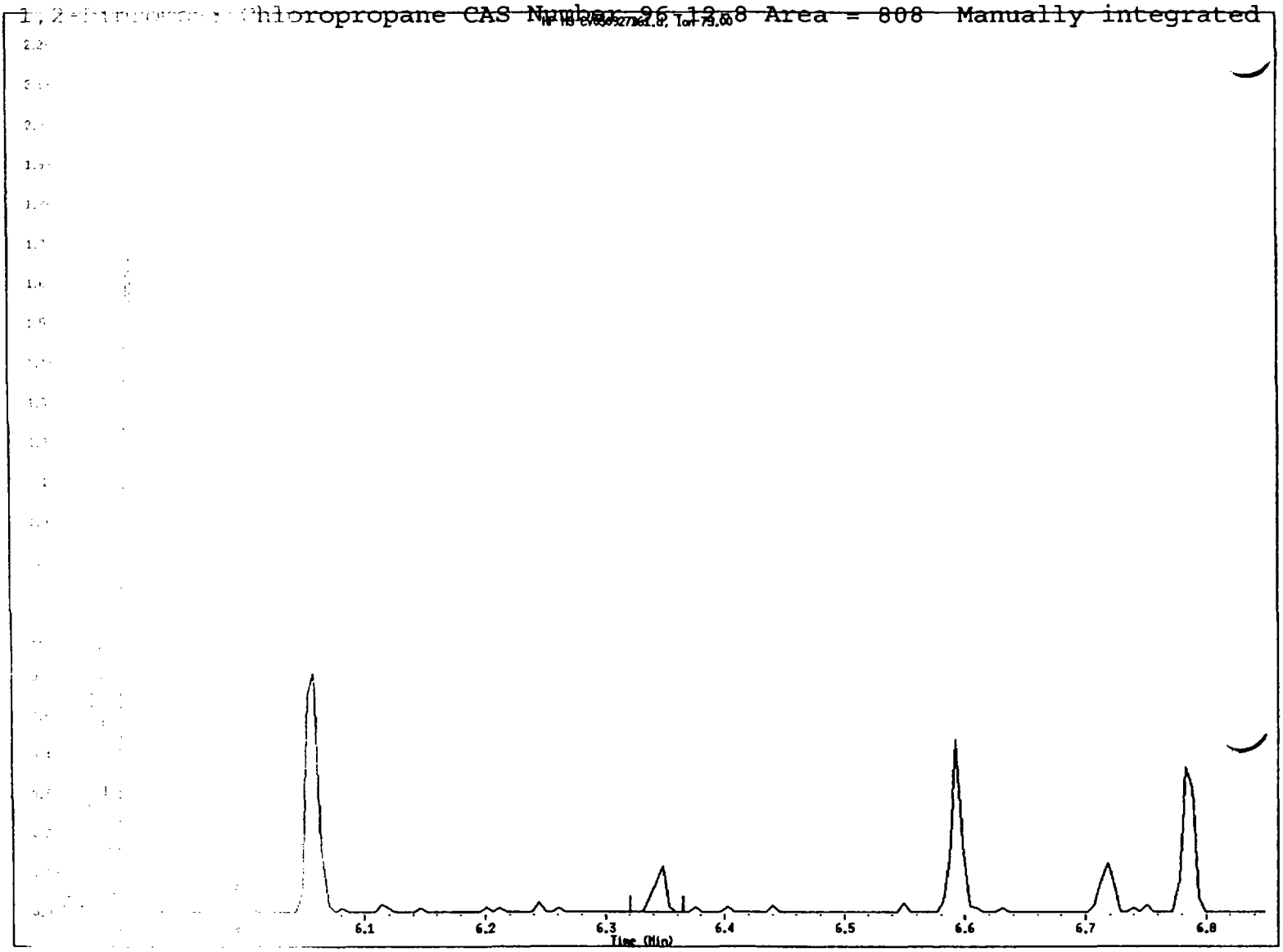
Bromoform CAS Number 75-25-2 Area = 1989 Manually integrated



File [illegible]973hp61.i/DG050927B61.b/CV050927B61.d
Client ID: [illegible]
Instrument ID: [illegible]973hp61.i
Injection Date and Time: 27-SEP-2005 18:12
Retention Time: [illegible].32
Operator ID: [illegible]3373

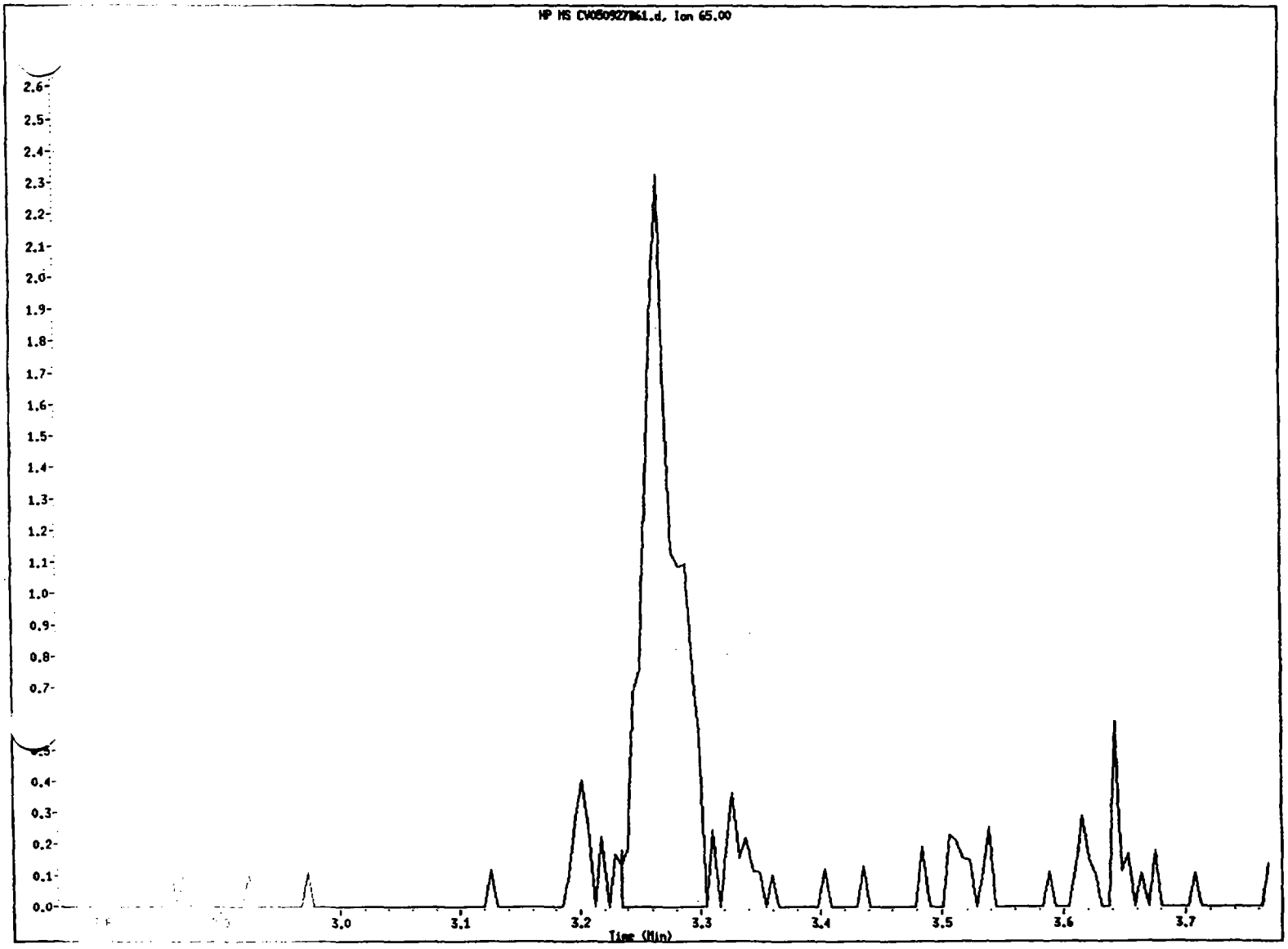
1,[illegible]-Chloropropane CAS Number 96-12-8 Area = 808 User selected hit

1,2-[illegible]-Chloropropane CAS Number 96-12-8 Area = 808 Manually integrated



Fi[illegible]5973hp61.i/DG050927B61.b/CV050927B61.d
Cl[illegible]
In[illegible]3hp61.i
In[illegible]d Time: 27-SEP-2005 18:12
Ret[illegible]6.35
Ope[illegible]

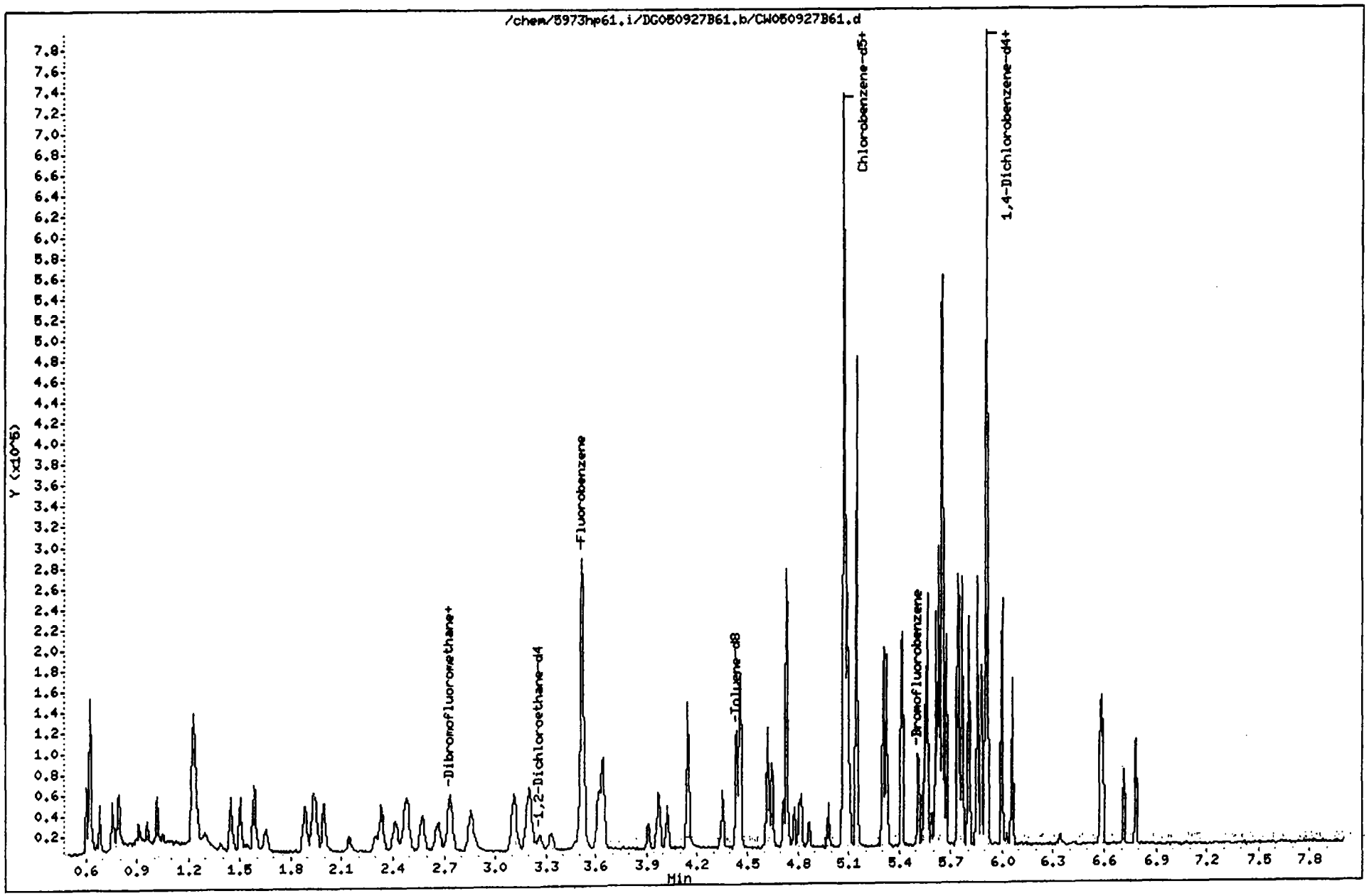
1,2-Dichloroethane-d4 CAS Number 17060-07-0 Area = 4448 User selected hit



File Name: /chem/5973hp61.i/DG050927B61.b/CV050927B61.d
Client ID: VSTD0.5
Instrument ID: 5973hp61.i
Injection Date and Time: 27-SEP-2005 18:12
Retention Time: 3.27
Operator ID: 2323

Data File: /chem/5973hp61.i/DC050927B61.b/CW050927B61.d
Date : 27-SEP-2005 18:39
Client ID: VSTD001
Sample Info: VSTD001:2323
Purge Volume: 25.0
Column phase: RTX-VMS

Instrument: 5973hp61.i
Operator: 2323
Column diameter: 0.18



Data File : ...ner/5973hp61.i/DG050927B61.b/CW050927B61.d
Report Date: 28-Sep-2005 02:50

CompuChem

...W846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data ner/5973hp61.i/DG050927B61.b/CW050927B61.d
Lab Smp ... VSTD001 Client Smp ID: VSTD001
Inj Date ... ...-SEP-2005 18:39
Operator ... Inst ID: 5973hp61.i
Smp Info ... VSTD001:2323
Misc Info ...
Comment
Method ...5973hp61.i/DG050927B61.b/W8260-B-25MLv9.m
Meth Date ... 28-Sep-2005 02:50 fertile Quant Type: ISTD
Cal Date ... ...-SEP-2005 18:39 Cal File: CW050927B61.d
Als bottle ... Calibration Sample, Level: 2
Dil Factor ...000
Integrator ... RTE Compound Sublist: DC.sub
Target 50
Process ... ...dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Value	Description
Df 1.00000	Dilution Factor
Vo 25.00000	volume of water
DF 1.00000	dilution factor

Cpnd Variable ... Local Compound Variable

Compound	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
* ...	96	3.517	3.517	(1.000)	206377	125.000	
* ...	117	5.068	5.068	(1.000)	155340	125.000	
* ...	152	5.901	5.901	(1.000)	88231	125.000	
$ ...	113	2.733	2.733	(0.777)	11402	25.0000	25
$ ...	65	3.261	3.261	(0.927)	7933	25.0000	26
$ ...	98	4.437	4.437	(0.875)	39887	25.0000	26
$ ...	95	5.509	5.509	(0.934)	13981	25.0000	24
...	85	0.686	0.686	(0.195)	17313	25.0000	27
...	50	0.757	0.757	(0.215)	28316	25.0000	29(M)
...	62	0.790	0.790	(0.225)	14550	25.0000	25
...	94	0.915	0.915	(0.260)	7165	25.0000	23
...	64	0.964	0.964	(0.274)	8041	25.0000	29
...methane	101	1.018	1.018	(0.290)	18874	25.0000	25
...	56	1.394	1.394	(0.396)	3189	250.000	250
...	96	1.231	1.231	(0.350)	13535	25.0000	28

2

Data File: /chem/5973hp61.i/DG050927B61.b/CW050927B61.d
Report Date: 28-Sep-2005 02:50

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	
17	1,1,1-trichloro-2,2,2-trifluo	117	1.225	1.225	(0.348)	6222	25.0000	26	
20	1,1,2-trichloro-1,2,2-trifluo	85	1.247	1.247	(0.355)	5331	25.0000	27	
18	Acetone	43	1.546	1.546	(0.440)	6740	125.000	130	
19	Iodomethane	142	1.302	1.302	(0.370)	10386	25.0000	20	
21	Carbon disulfide	76	1.236	1.236	(0.351)	36900	25.0000	25	
22	3-Chloropropene	39	1.448	1.448	(0.412)	14217	25.0000	31	
23	Acetonitrile	41	1.791	1.791	(0.509)	581	25.0000	27	(M)
163	Methyl acetate	43	1.612	1.612	(0.458)	3999	25.0000	28	
24	Methylene Chloride	84	1.503	1.503	(0.427)	12007	25.0000	24	
25	Acrylonitrile	53	1.993	1.993	(0.567)	29934	250.000	270	
27	trans-1,2-Dichloroethene	96	1.585	1.585	(0.451)	15596	25.0000	26	
28	Methyl-tert-butyl ether	73	1.655	1.655	(0.471)	16052	25.0000	26	
30	1,1-Dichloroethane	63	1.949	1.949	(0.554)	26997	25.0000	26	
32	Vinyl acetate	43	2.145	2.145	(0.610)	17866	50.0000	47	
33	Isopropyl ether	45	1.889	1.889	(0.537)	36953	25.0000	26	
35	2,2-Dichloropropane	77	2.417	2.417	(0.687)	18478	25.0000	27	
34	cis-1,2-Dichloroethene	96	2.330	2.330	(0.663)	14793	25.0000	24	
31	Chloroprene	53	1.933	1.933	(0.550)	18962	25.0000	26	
37	2-butanone	43	2.896	2.896	(0.824)	9516	125.000	140	
36	Propionitrile	54	3.190	3.190	(0.907)	25362	1250.00	1300	
39	Methacrylonitrile	41	3.201	3.201	(0.910)	27587	250.000	250	
40	Bromochloromethane	128	2.494	2.494	(0.709)	5737	25.0000	26	
42	Chloroform	83	2.570	2.570	(0.731)	27433	25.0000	26	
43	1,1,1-Trichloroethane	97	2.739	2.739	(0.779)	26473	25.0000	27	
44	Cyclohexane	84	2.477	2.477	(0.704)	15522	25.0000	26	
50	Isobutyl alcohol	43	3.479	3.479	(0.989)	8302	1250.00	1400	
47	1,1-dichloropropene	75	2.858	2.858	(0.813)	20514	25.0000	27	
48	Carbon Tetrachloride	117	2.668	2.668	(0.759)	18381	25.0000	27	
51	Benzene	78	3.109	3.109	(0.884)	54487	25.0000	26	
49	1,2-Dichloroethane	62	3.332	3.332	(0.947)	11764	25.0000	25	
53	Trichloroethene	130	3.642	3.642	(1.036)	20593	25.0000	26	
54	Methylcyclohexane	83	3.615	3.615	(1.028)	17559	25.0000	26	
55	1,2-Dichloropropane	63	3.969	3.969	(1.128)	12035	25.0000	25	
56	Dibromomethane	174	3.909	3.909	(1.111)	6208	25.0000	26	
58	Methylmethacrylate	69	4.143	4.143	(1.178)	26911	250.000	240	
57	1,4-dioxane	88	4.154	4.154	(1.181)	3061	1250.00	1500	(M)
59	Bromodichloromethane	83	4.023	4.023	(1.144)	14256	25.0000	24	
60	2-chloroethyl vinyl ether	63	4.339	4.339	(1.234)	2120	250.000	340	
61	cis-1,3-Dichloropropene	75	4.350	4.350	(1.237)	15058	25.0000	24	(H)
62	4-Methyl-2-pentanone	43	4.644	4.644	(0.916)	19996	125.000	130	
63	Toluene	92	4.459	4.459	(0.880)	36551	25.0000	26	
64	trans-1,3-Dichloropropene	75	4.649	4.649	(0.917)	9557	25.0000	22	(H)
66	Ethylmethacrylate	69	4.731	4.731	(0.933)	61983	250.000	250	
65	1,1,2-Trichloroethane	97	4.709	4.709	(0.929)	7439	25.0000	27	
67	1,3-Dichloropropane	76	4.818	4.818	(0.951)	11146	25.0000	25	
68	Tetrachloroethene	164	4.622	4.622	(0.912)	14830	25.0000	26	
69	2-hexanone	43	4.976	4.976	(0.982)	14160	125.000	120	

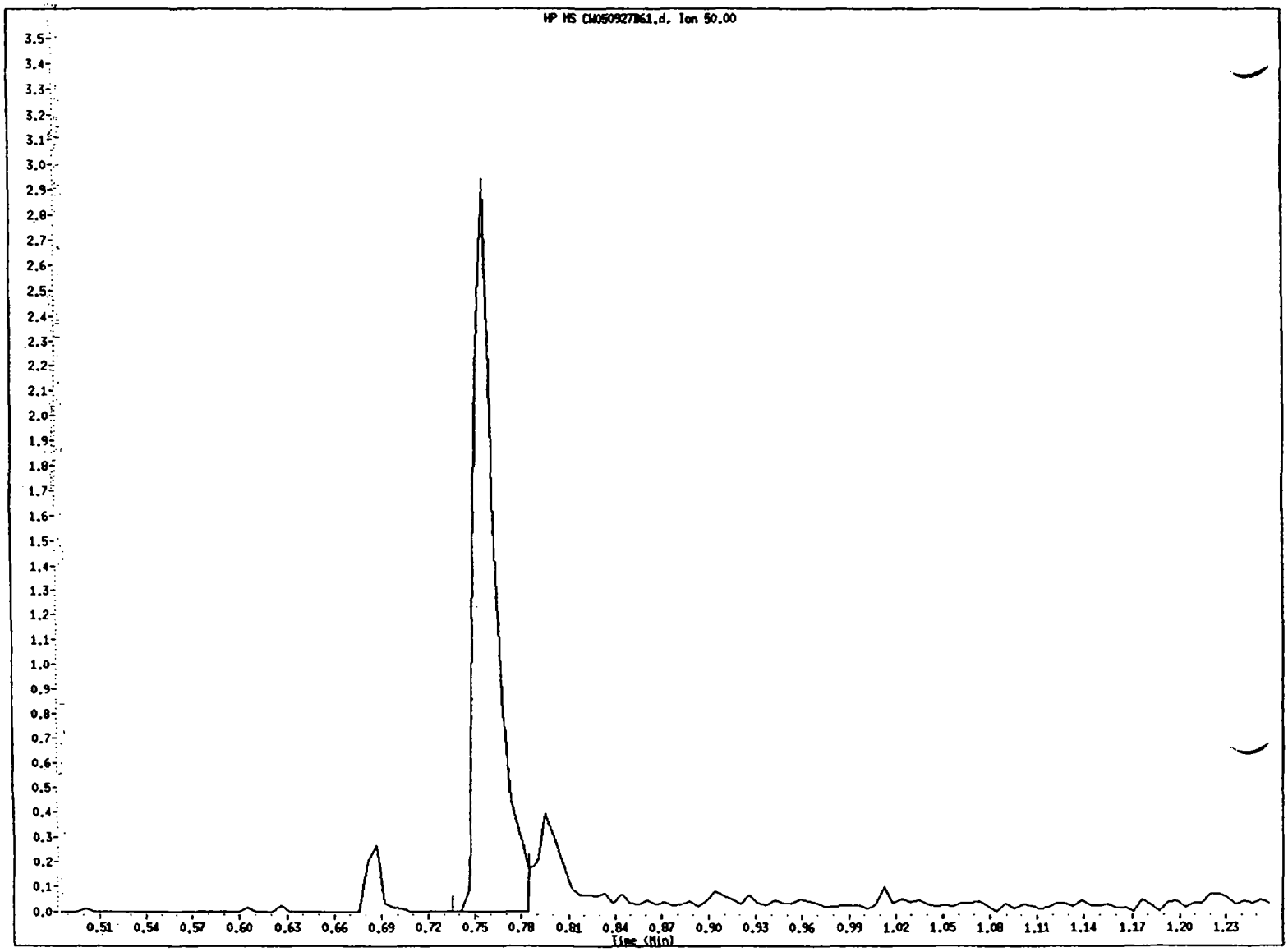
Data File: /chem/5973hp61.i/DG050927B61.b/CW050927B61.d
Report Date: 28-Sep-2005 02:50

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
70	Dibromochloromethane	129	4.780	4.780	(0.943)	8969	25.0000	23
71	1,2-Dibromoethane	107	4.867	4.867	(0.960)	7758	25.0000	26
72	Chlorobenzene	112	5.074	5.074	(1.001)	41059	25.0000	26
74	1,1,1,2-Tetrachloroethane	131	5.101	5.101	(1.006)	11330	25.0000	23
75	Ethylbenzene	106	5.090	5.090	(1.004)	23931	25.0000	27
76	m,p-Xylene	106	5.145	5.145	(1.015)	57454	50.0000	52
77	o-Xylene	106	5.303	5.303	(1.046)	25096	25.0000	24
78	Styrene	104	5.319	5.319	(1.049)	38099	25.0000	25
79	Bromoform	173	5.324	5.324	(1.050)	4511	25.0000	23
81	Isopropyl Benzene	105	5.417	5.417	(1.069)	66174	25.0000	24
82	1,1,2,2-Tetrachloroethane	83	5.586	5.586	(0.946)	7246	25.0000	25
84	Bromobenzene	156	5.548	5.548	(1.095)	17749	25.0000	25
83	1,2,3-Trichloropropane	110	5.635	5.635	(1.112)	1569	25.0000	22
85	trans-1,4-dichloro-2-butene	53	5.645	5.645	(1.114)	50918	1000.00	840
86	n-Propyl Benzene	91	5.558	5.558	(0.942)	81469	25.0000	24
87	2-Chlorotoluene	126	5.613	5.613	(0.951)	19478	25.0000	25
89	1,3,5-Trimethyl Benzene	105	5.629	5.629	(0.954)	59968	25.0000	24
88	4-Chlorotoluene	126	5.673	5.673	(0.961)	17784	25.0000	23
91	tert-Butyl Benzene	119	5.738	5.738	(0.972)	57451	25.0000	24
92	1,2,4-Trimethyl Benzene	105	5.765	5.765	(0.977)	61894	25.0000	24
93	sec-Butyl Benzene	105	5.803	5.803	(0.983)	75755	25.0000	24
94	1,3-Dichlorobenzene	146	5.880	5.880	(0.996)	37269	25.0000	25
95	p-Isopropyl Toluene	119	5.852	5.852	(0.992)	63448	25.0000	24
96	1,4-Dichlorobenzene	146	5.907	5.907	(1.001)	37172	25.0000	25
	n-Butyl Benzene	91	5.999	5.999	(1.017)	59198	25.0000	25
	1,2-Dichlorobenzene	146	6.054	6.054	(1.026)	29926	25.0000	24
101	1,2-Dibromo-3-Chloropropane	75	6.342	6.342	(1.075)	1077	25.0000	22
102	1,2,4-Trichlorobenzene	180	6.587	6.587	(1.116)	20635	25.0000	23
103	Hexachlorobutadiene	225	6.576	6.576	(1.114)	11553	25.0000	23
104	Naphthalene	128	6.712	6.712	(1.137)	24307	25.0000	21
105	1,2,3-Trichlorobenzene	180	6.783	6.783	(1.149)	16122	25.0000	22
M 106	1,2-Dichloroethene (total)	96				30389	50.0000	50
M 107	Xylene (total)	106				82550	25.0000	79

QC Flag Legend

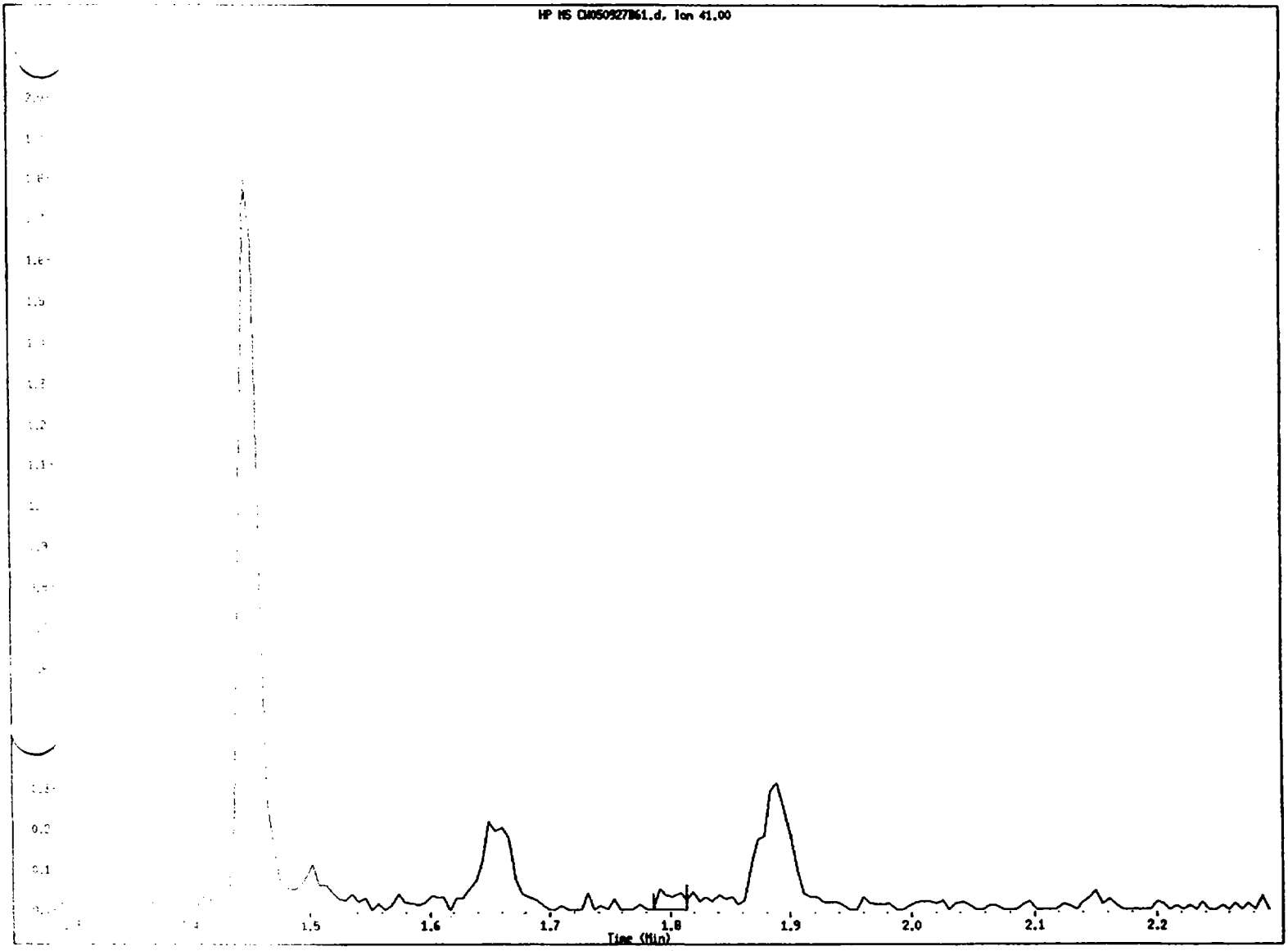
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Chloromethane CAS Number 74-87-3 Area = 28316 Manually integrated



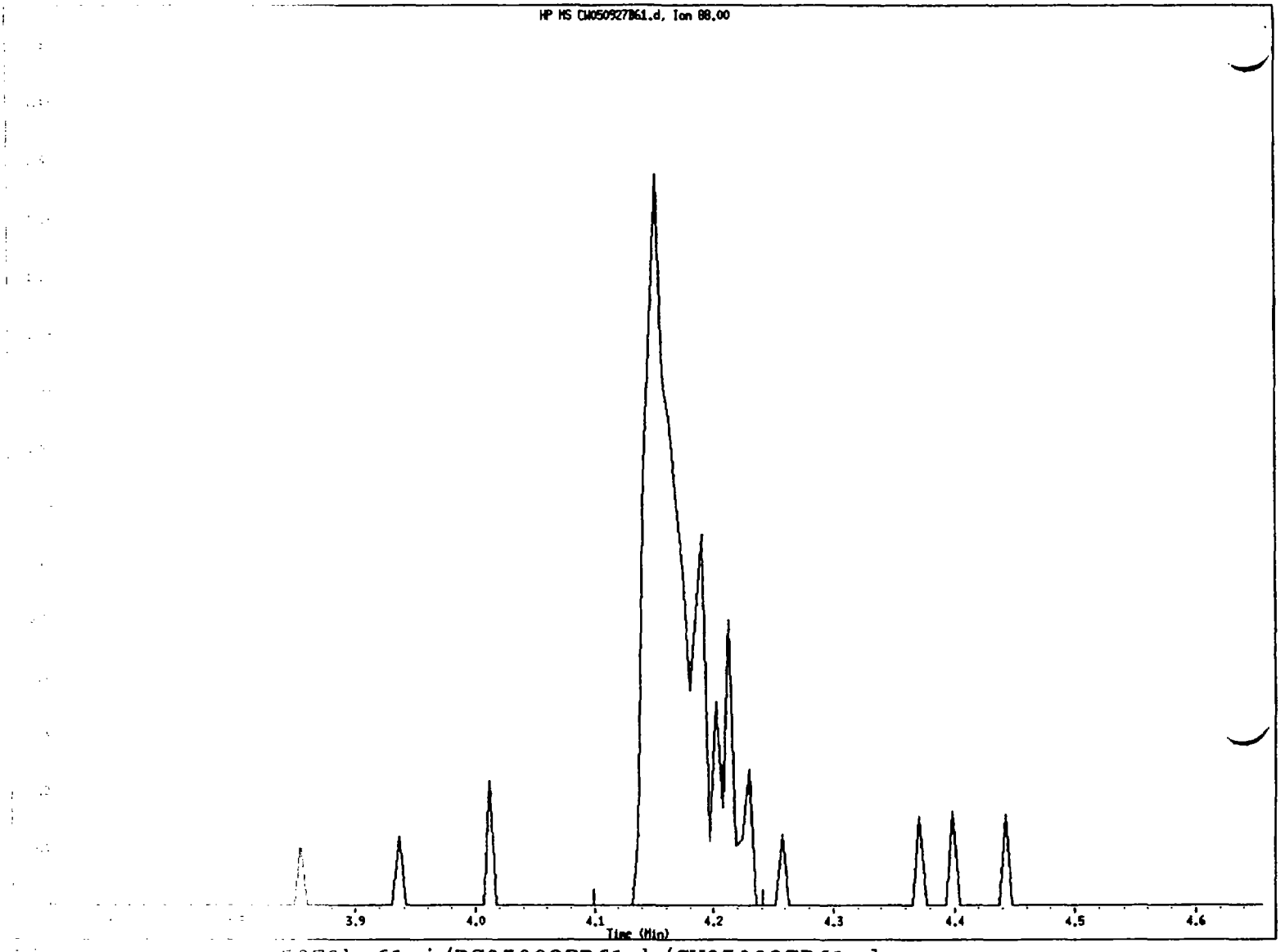
File name: /chem/5973hp61.i/DG050927B61.b/CW050927B61.d
Client ID: VSTD001
Instrument ID: 5973hp61.i
Injection Date and Time: 27-SEP-2005 18:39
Retention Time: 0.76
Operator ID: 2323

Acetonitrile CAS Number 75-05-8 Area = 581 Manually integrated



File [illegible]/5973hp61.i/DG050927B61.b/CW050927B61.d
Client ID: [illegible]
Instrument ID: 5973hp61.i
Injection Date and Time: 27-SEP-2005 18:39
Retention Time: 1.79
Operator ID: [illegible]

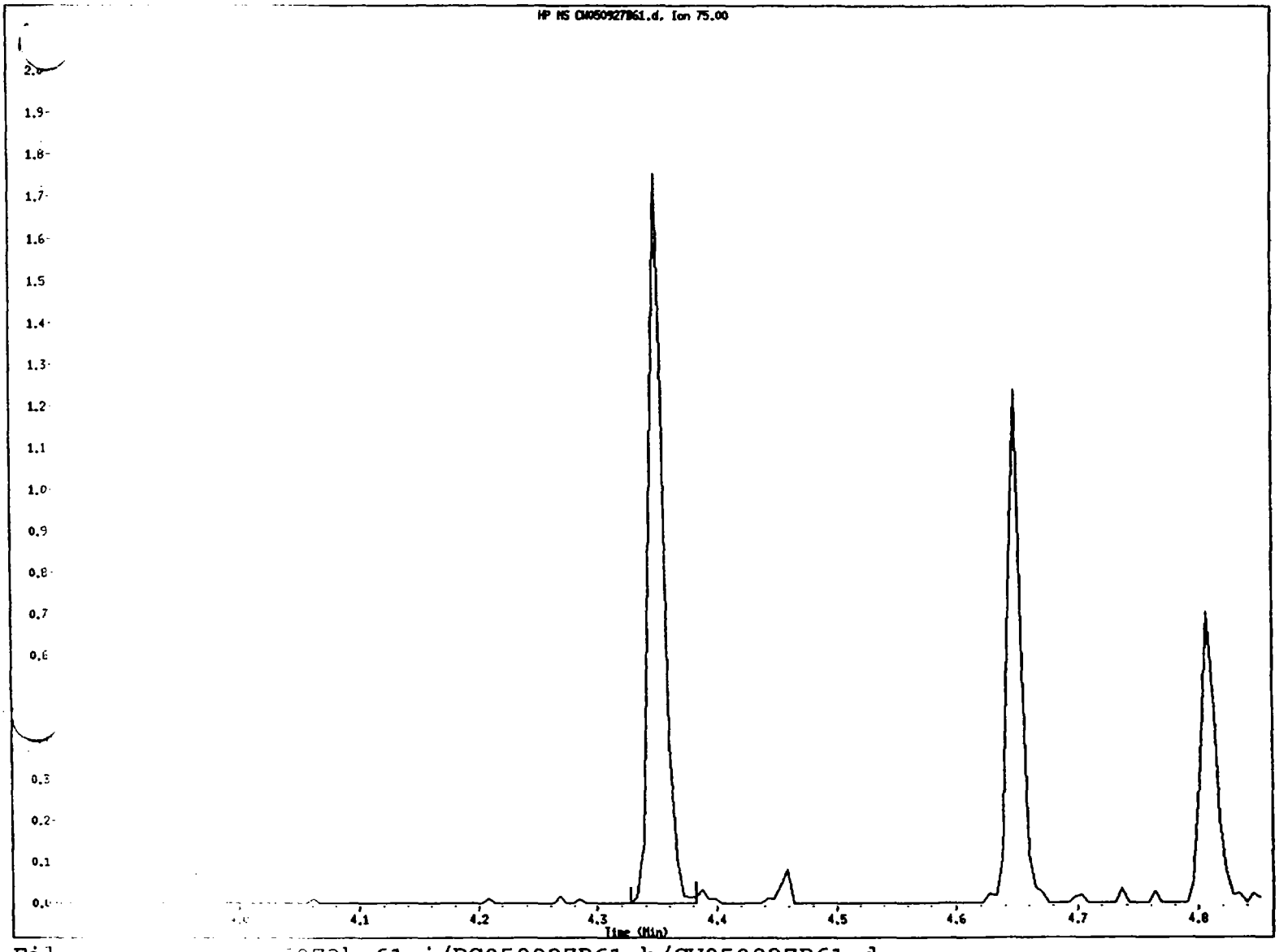
AS Number 123-91-1 Area = 3061 Manually integrated



973hp61.i/DG050927B61.b/CW050927B61.d

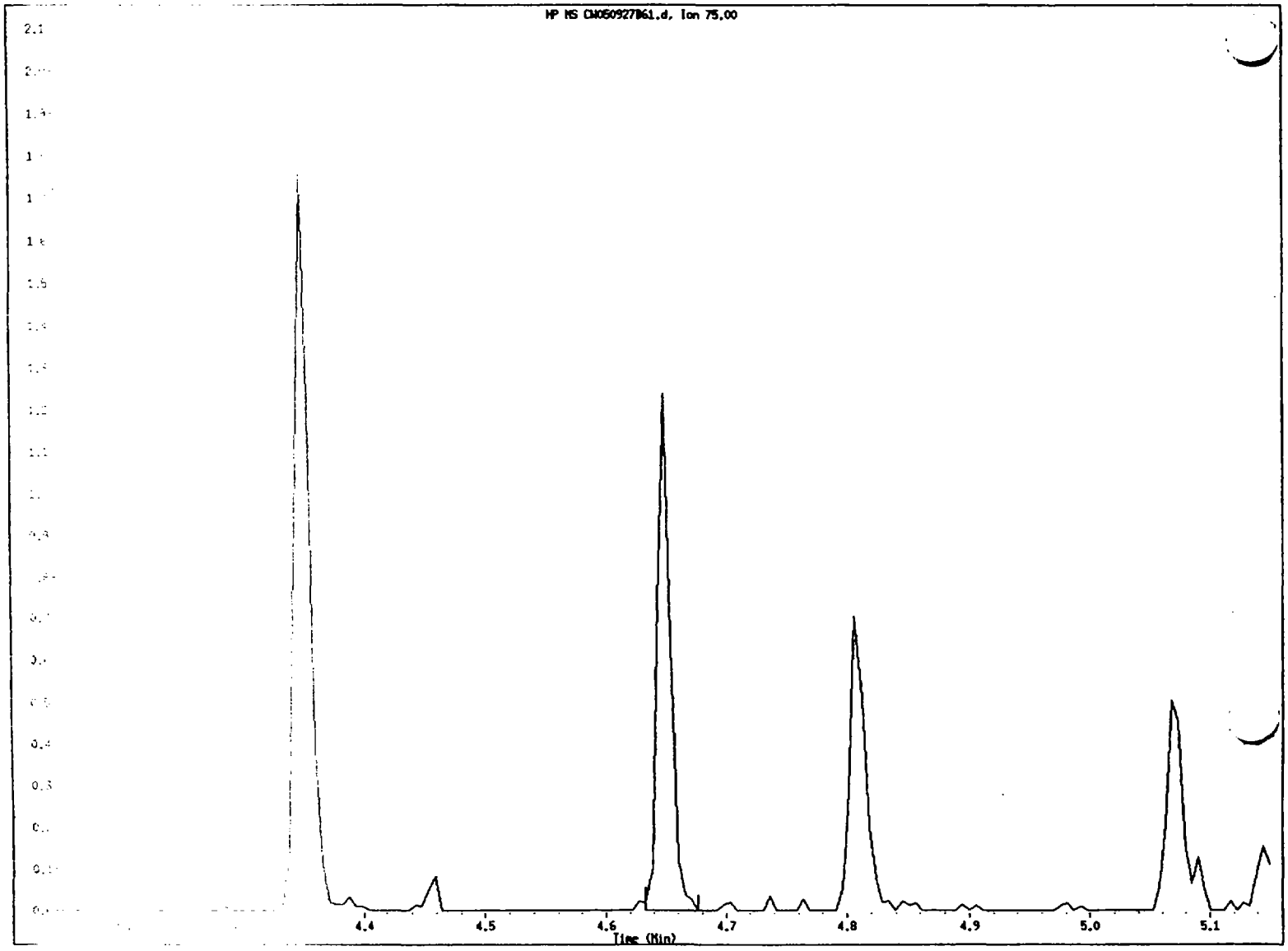
hp61.i
Time: 27-SEP-2005 18:39
4.15

cis-1,[illegible]propene CAS Number 10061-01-5 Area = 15058 User selected hit



File [illegible]5973hp61.i/DG050927B61.b/CW050927B61.d
Client [illegible]
Instrument ID: 5973hp61.i
Injection Acquired Time: 27-SEP-2005 18:39
Retention Time: 4.35
Operator ID: [illegible]

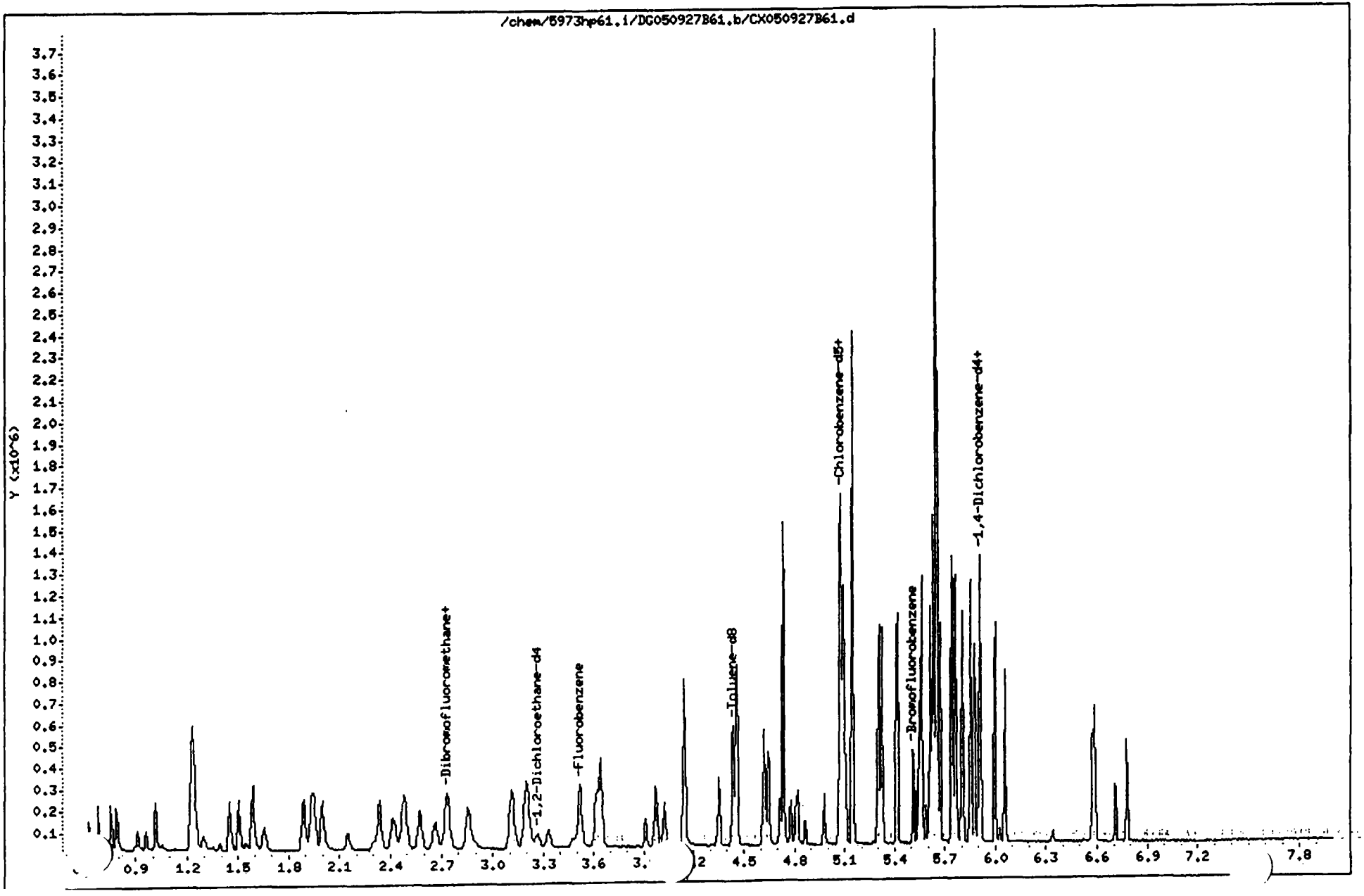
trans-1,3-Dichloropropene CAS Number 10061-02-6 Area = 9557 User selected hit



File [illegible]973hp61.i/DG050927B61.b/CW050927B61.d
Client [illegible]
Instrument ID: [illegible]973hp61.i
Injection Date Time: 27-SEP-2005 18:39
Retention Time: 4.65
Operator ID: [illegible]

Data File: /chem/5973hp61.i/DC050927B61.b/CX050927B61.d
Date : 27-SEP-2005 19:07
Client ID: VSTD005
Sample Info: VSTD005:2323
Purge Volume: 25.0
Column phase: RTX-VMS

Instrument: 5973hp61.i
Operator: 2323
Column diameter: 0.18



Data File: /chem/5973hp61.i/DG050927B61.b/CX050927B61.d
Report Date: 28-Sep-2005 02:50

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data File : /chem/5973hp61.i/DG050927B61.b/CX050927B61.d
Lab Smp ID: [illegible] Client Smp ID: VSTD005
Inj Date : [illegible]-SEP-2005 19:07
Operator : [illegible] Inst ID: 5973hp61.i
Smp Info : VSTD005:2323
Misc Info : 61
Comment :
Method : [illegible]/5973hp61.i/DG050927B61.b/W8260-B-25MLv9.m
Meth Date : [illegible]-Sep-2005 02:50 fertile Quant Type: ISTD
Cal Date : [illegible]-SEP-2005 19:07 Cal File: CX050927B61.d
Als bottle: 20 Calibration Sample, Level: 3
Dil Factor: [illegible]000
Integrator: HP RTE Compound Sublist: DC.sub
Target Version : 3.50
Processing host: [illegible]dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	volume of water
DF	1.00000	dilution factor

Cpnd Variable: Local Compound Variable

	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
	96	3.517	3.517	(1.000)	211398	125.000	
	117	5.069	5.069	(1.000)	161698	125.000	
	152	5.901	5.901	(1.000)	88664	125.000	
S	113	2.739	2.739	(0.779)	58295	125.000	130
S	65	3.267	3.267	(0.929)	36633	125.000	120
S	98	4.437	4.437	(0.875)	190609	125.000	120
S	95	5.509	5.509	(0.934)	69126	125.000	120
	85	0.686	0.686	(0.195)	81231	125.000	120
	50	0.757	0.757	(0.215)	123274	125.000	120
	62	0.790	0.790	(0.225)	69552	125.000	120
	94	0.915	0.915	(0.260)	30013	125.000	95
	64	0.964	0.964	(0.274)	32860	125.000	120
	101	1.018	1.018	(0.290)	91797	125.000	120
	56	1.394	1.394	(0.396)	15806	1250.00	1200
	96	1.231	1.231	(0.350)	60888	125.000	120

Data [illegible]/5973hp61.i/DG050927B61.b/CX050927B61.d
Report Date: 28-Sep-2005 02:50

Compound	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	
[illegible]	----	--	------	------	--------	--------	--------	
1 [illegible]	117	1.231	1.231	(0.350)	29691	125.000	120	
2 [illegible]	85	1.247	1.247	(0.355)	25596	125.000	120	
[illegible]	43	1.547	1.547	(0.440)	30314	625.000	560	
[illegible]	142	1.296	1.296	(0.369)	51828	125.000	98	
[illegible]	76	1.242	1.242	(0.353)	189225	125.000	120	
[illegible]	39	1.449	1.449	(0.412)	62843	125.000	130	
[illegible]	41	1.819	1.819	(0.517)	2487	125.000	110(M)	
[illegible]	43	1.612	1.612	(0.458)	20494	125.000	140	2
[illegible]	84	1.503	1.503	(0.427)	64629	125.000	130	
[illegible]	53	1.998	1.998	(0.568)	144875	1250.00	1300	
[illegible]	96	1.590	1.590	(0.452)	78640	125.000	130	
[illegible]	73	1.655	1.655	(0.471)	79325	125.000	130	
[illegible]	63	1.949	1.949	(0.554)	137767	125.000	130	
[illegible]	43	2.145	2.145	(0.610)	102095	250.000	260	
[illegible]	45	1.889	1.889	(0.537)	182922	125.000	130	
[illegible]	77	2.418	2.418	(0.687)	100824	125.000	140	
[illegible]	96	2.336	2.336	(0.664)	79733	125.000	130	
[illegible]	53	1.933	1.933	(0.550)	92703	125.000	130	
[illegible]	43	2.886	2.886	(0.820)	45497	625.000	640	
[illegible]	54	3.196	3.196	(0.909)	135529	6250.00	6700	
[illegible]	41	3.201	3.201	(0.910)	145083	1250.00	1300	
[illegible]	128	2.494	2.494	(0.709)	27511	125.000	120	
[illegible]	83	2.575	2.575	(0.732)	140669	125.000	130	
[illegible]	97	2.733	2.733	(0.777)	128470	125.000	130	
[illegible]	84	2.477	2.477	(0.704)	76914	125.000	130	
[illegible]	43	3.484	3.484	(0.991)	41317	6250.00	6800	
[illegible]	75	2.858	2.858	(0.813)	97341	125.000	130	
[illegible]	117	2.668	2.668	(0.759)	87765	125.000	120	
[illegible]	78	3.114	3.114	(0.885)	270554	125.000	130	
[illegible]	62	3.332	3.332	(0.947)	61016	125.000	130	
[illegible]	130	3.642	3.642	(1.036)	99535	125.000	120	
[illegible]	83	3.621	3.621	(1.029)	88526	125.000	130	
[illegible]	63	3.969	3.969	(1.128)	62026	125.000	130	
[illegible]	174	3.909	3.909	(1.111)	32226	125.000	130	
[illegible]	69	4.143	4.143	(1.178)	149904	1250.00	1300	
[illegible]	88	4.170	4.170	(1.186)	13365	6250.00	6500	
[illegible]	83	4.023	4.023	(1.144)	78820	125.000	130	
[illegible]	63	4.345	4.345	(1.235)	12218	1250.00	1900	
[illegible]	75	4.350	4.350	(1.237)	80523	125.000	130(H)	
[illegible]	43	4.644	4.644	(0.916)	107962	625.000	650	2
[illegible]	92	4.459	4.459	(0.880)	178635	125.000	120	
[illegible]	75	4.649	4.649	(0.917)	58446	125.000	130(H)	
[illegible]	69	4.731	4.731	(0.933)	334215	1250.00	1300	
[illegible]	97	4.715	4.715	(0.930)	36158	125.000	120	2
[illegible]	76	4.818	4.818	(0.951)	56490	125.000	120	
[illegible]	164	4.622	4.622	(0.912)	69130	125.000	120	
[illegible]	43	4.976	4.976	(0.982)	75723	625.000	640	

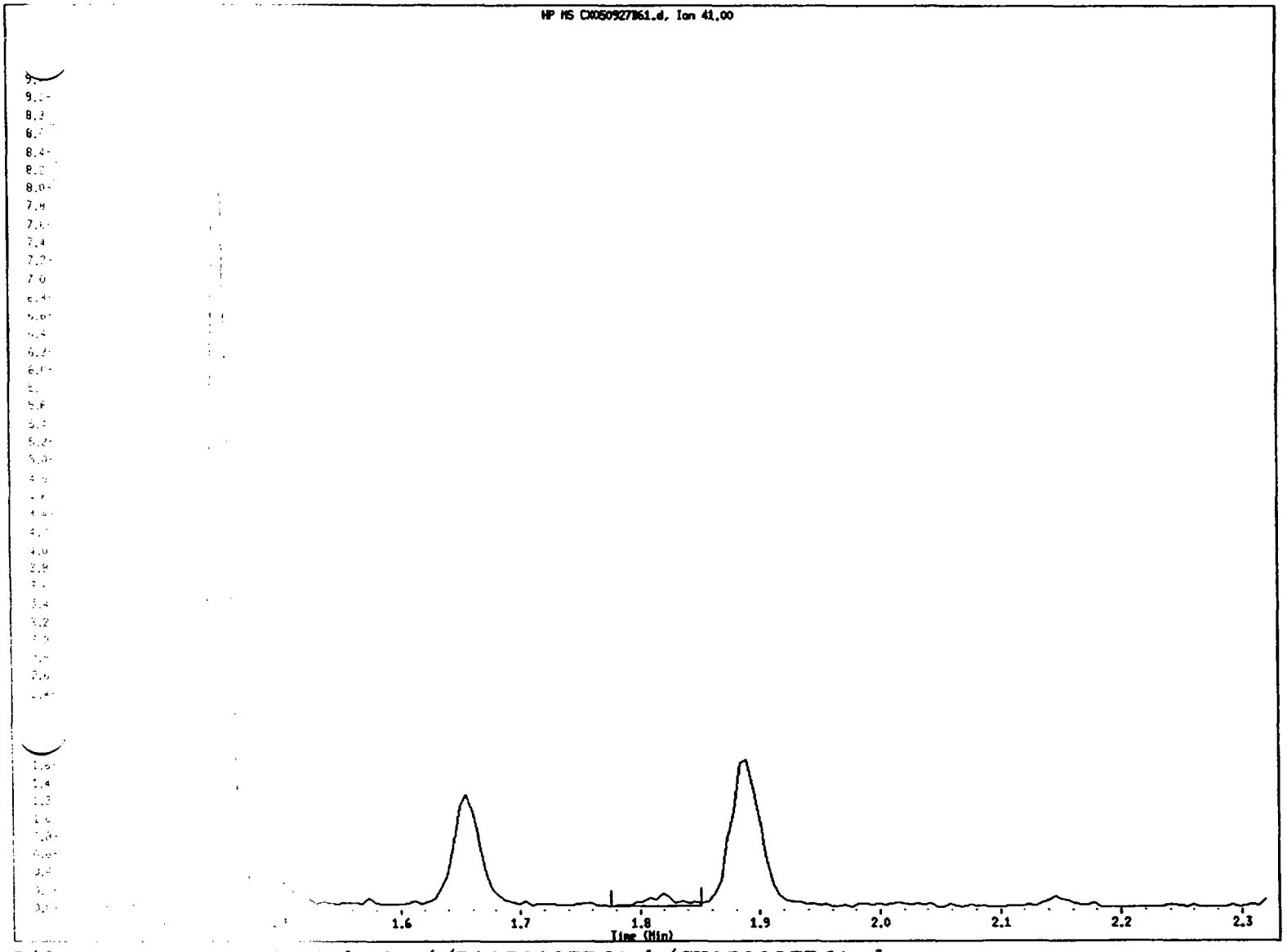
Data File: /chem/5973hp61.i/DG050927B61.b/CX050927B61.d
Report Date: 28-Sep-2005 02:50

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
70	Dibromochloromethane	129	4.780	4.780	(0.943)	50348	125.000	130
71	1,2-Dibromoethane	107	4.862	4.862	(0.959)	39751	125.000	130
72	Chlorobenzene	112	5.074	5.074	(1.001)	204619	125.000	120
74	1,1,1,2-Tetrachloroethane	131	5.101	5.101	(1.006)	62731	125.000	120
75	Ethylbenzene	106	5.090	5.090	(1.004)	112154	125.000	120
76	m,p-Xylene	106	5.145	5.145	(1.015)	279027	250.000	240
77	o-Xylene	106	5.303	5.303	(1.046)	137142	125.000	130
78	Styrene	104	5.319	5.319	(1.049)	195014	125.000	120
79	Bromoform	173	5.324	5.324	(1.050)	25799	125.000	130
81	Isopropyl Benzene	105	5.417	5.417	(1.069)	345677	125.000	120
82	1,1,2,2-Tetrachloroethane	83	5.586	5.586	(0.946)	36663	125.000	120
84	Bromobenzene	156	5.548	5.548	(1.095)	90619	125.000	120
83	1,2,3-Trichloropropane	110	5.635	5.635	(1.112)	10048	125.000	130
85	trans-1,4-dichloro-2-butene	53	5.646	5.646	(1.114)	337821	5000.00	5400
86	n-Propyl Benzene	91	5.558	5.558	(0.942)	417030	125.000	120
87	2-Chlorotoluene	126	5.613	5.613	(0.951)	98120	125.000	120
89	1,3,5-Trimethyl Benzene	105	5.629	5.629	(0.954)	317253	125.000	120
88	4-Chlorotoluene	126	5.673	5.673	(0.961)	91456	125.000	120
91	tert-Butyl Benzene	119	5.738	5.738	(0.972)	300973	125.000	120
92	1,2,4-Trimethyl Benzene	105	5.765	5.765	(0.977)	312254	125.000	120
93	sec-Butyl Benzene	105	5.803	5.803	(0.983)	377485	125.000	120
94	1,3-Dichlorobenzene	146	5.874	5.874	(0.995)	174412	125.000	120
95	p-Isopropyl Toluene	119	5.852	5.852	(0.992)	313601	125.000	120
96	1,4-Dichlorobenzene	146	5.907	5.907	(1.001)	174177	125.000	120
99	n-Butyl Benzene	91	5.999	5.999	(1.017)	272261	125.000	110
98	1,2-Dichlorobenzene	146	6.054	6.054	(1.026)	144813	125.000	120
101	1,2-Dibromo-3-Chloropropane	75	6.342	6.342	(1.075)	5471	125.000	110
102	1,2,4-Trichlorobenzene	180	6.587	6.587	(1.116)	85702	125.000	95
103	Hexachlorobutadiene	225	6.576	6.576	(1.114)	51867	125.000	100
104	Naphthalene	128	6.712	6.712	(1.137)	107830	125.000	95
105	1,2,3-Trichlorobenzene	180	6.778	6.778	(1.149)	67500	125.000	91
M 106	1,2-Dichloroethene (total)	96				158373	250.000	250
M 107	Xylene (total)	106				416169	125.000	380

QC Flag Legend

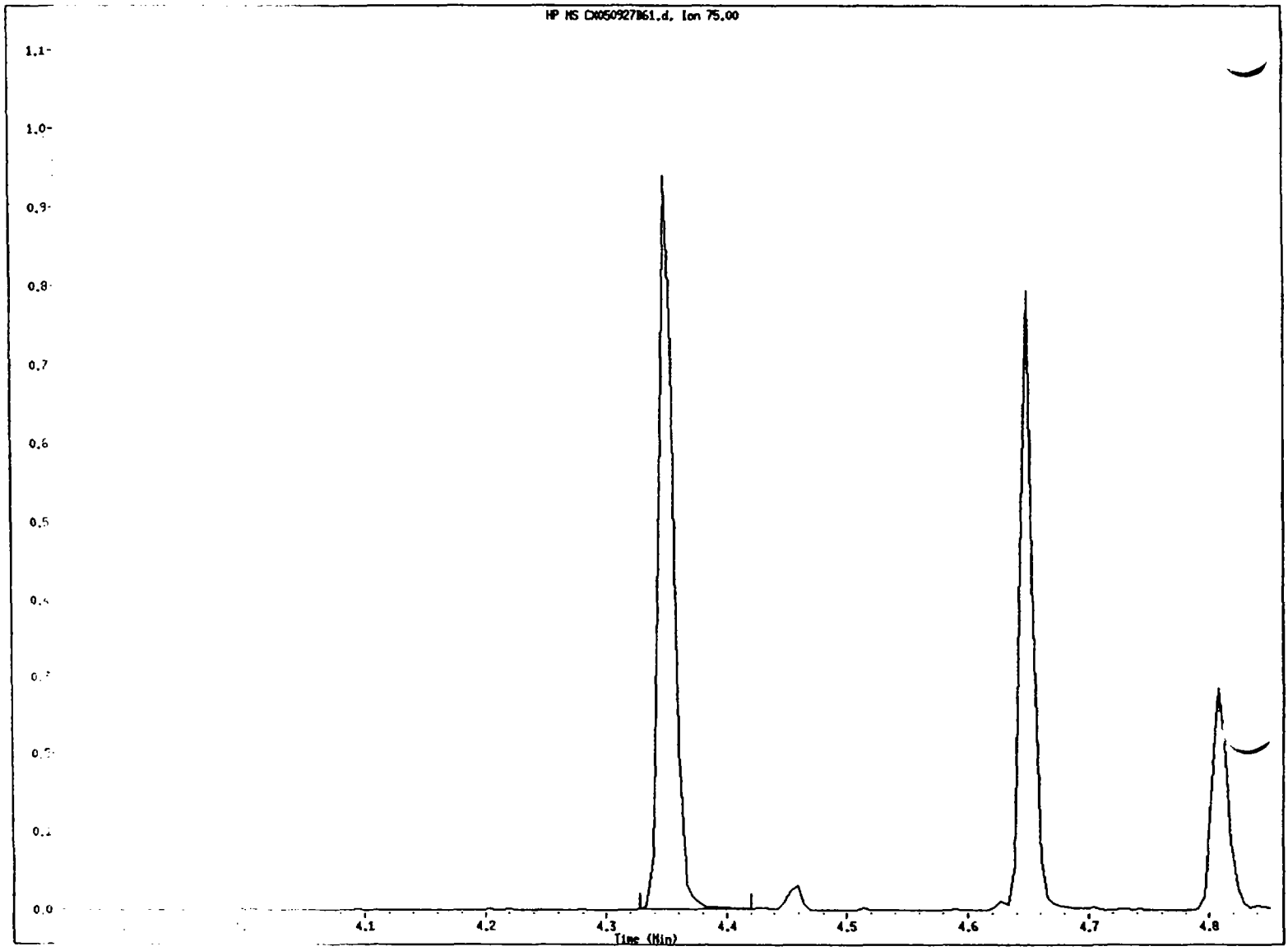
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

A[illegible] = [illegible]AS Number 75-05-8 Area = 2487 Manually integrated



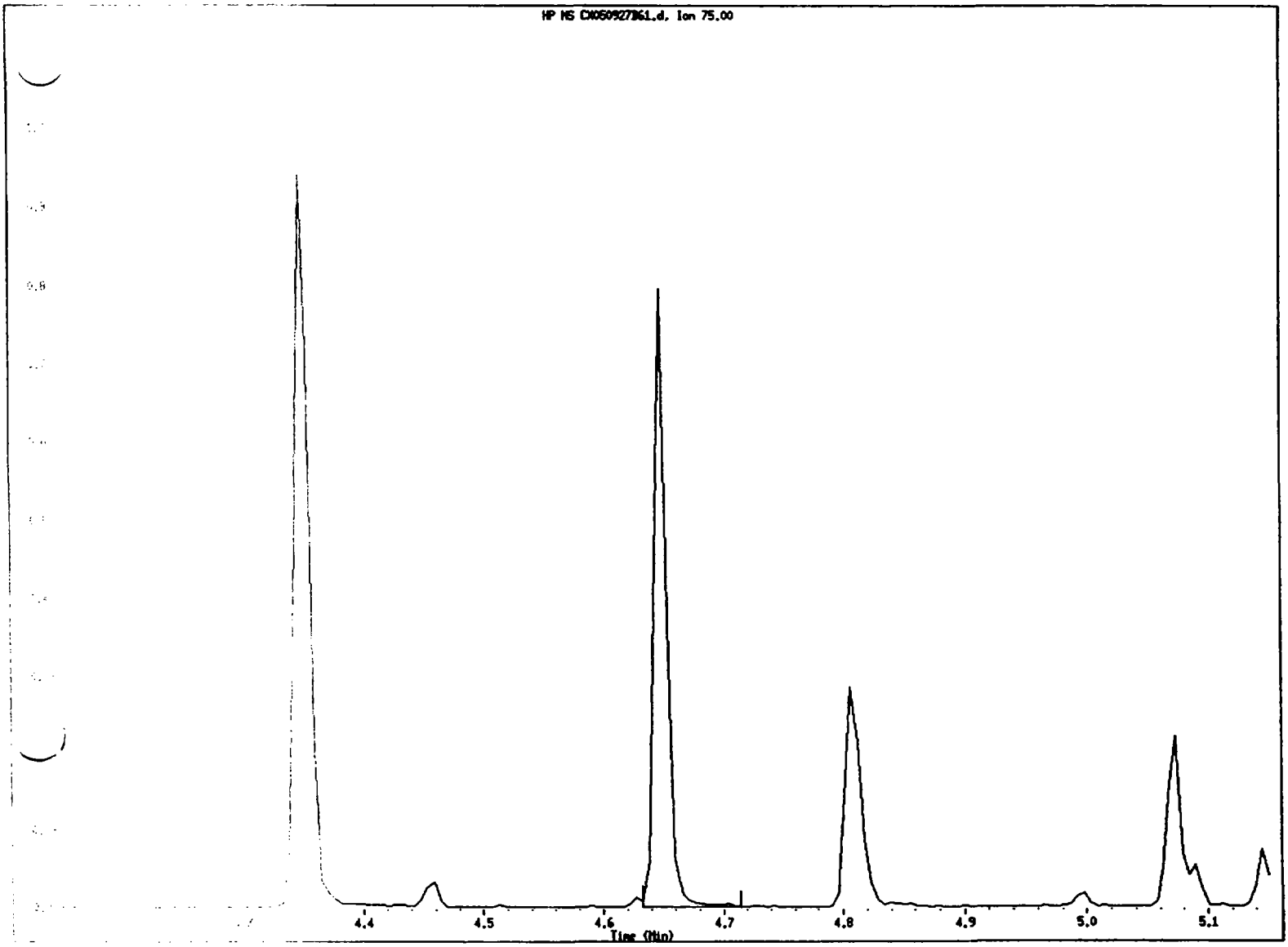
Fil[illegible]973hp61.i/DG050927B61.b/CX050927B61.d
Cl[illegible]
Ins[illegible]3hp61.i
Im[illegible] Time: 27-SEP-2005 19:07
Re[illegible]82
Ope[illegible]

cis-1,3-Dichloropropene CAS Number 10061-01-5 Area = 80523 User selected hit



File ...973hp61.i/DG050927B61.b/CX050927B61.d
Cli...
In...973hp61.i
Inj... and Time: 27-SEP-2005 19:07
Ret... Time: 4.35
Ope...

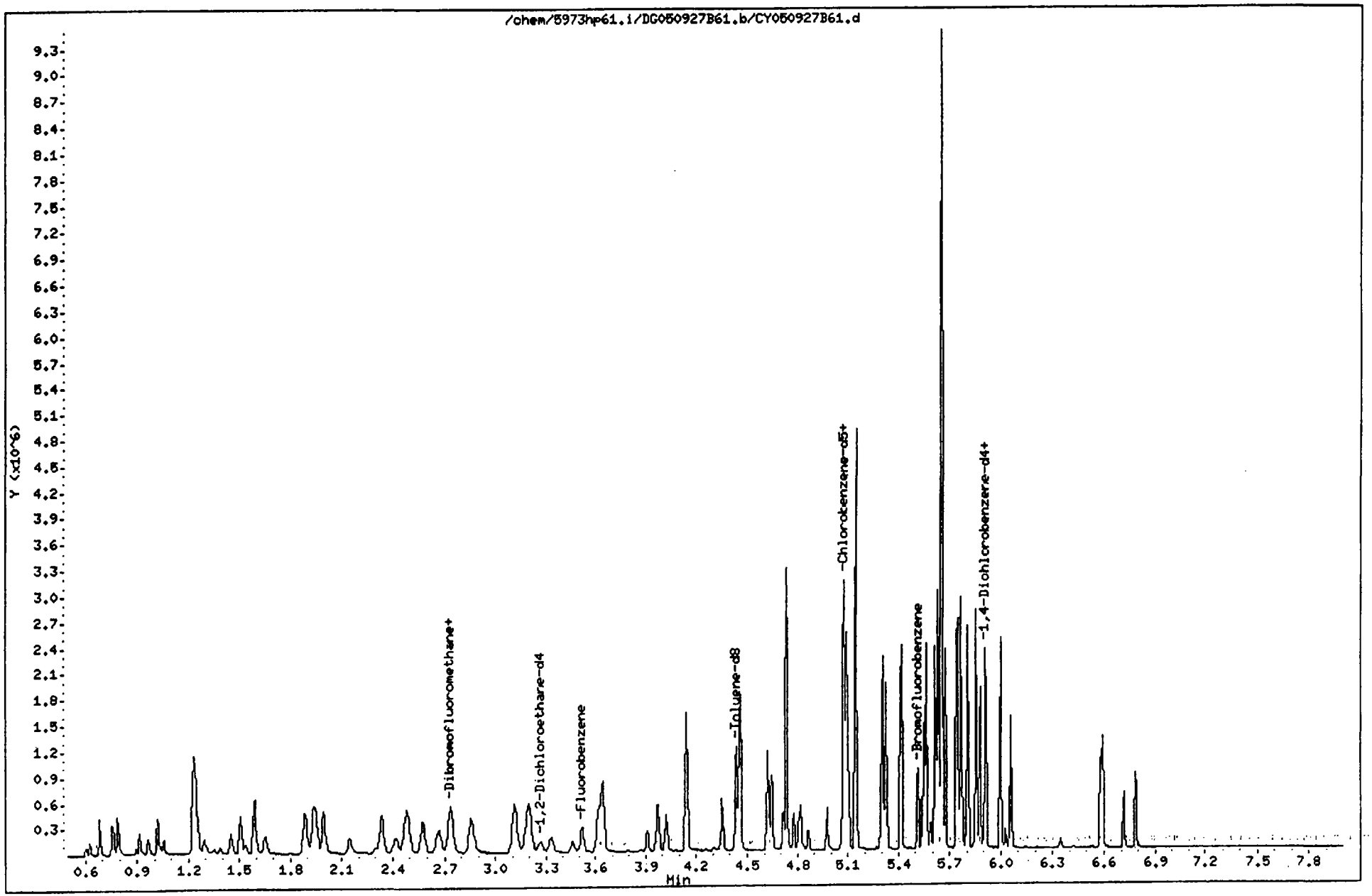
trans[illegible]chloropropene CAS Number 10061-02-6 Area = 58446 User selected hit



Fi[illegible] 5973hp61.i/DG050927B61.b/CX050927B61.d
Client [illegible]
Instrument [illegible] 973hp61.i
Injection Date and Time: 27-SEP-2005 19:07
Retention Time: 4.65
Operator ID: 3523

Data File: /chem/5973hp61.i/DG050927B61.b/CY050927B61.d
Date : 27-SEP-2005 19:34
Client ID: VSTD010
Sample Info: VSTD010:2323
Purge Volume: 25.0
Column phase: RTX-VMS

Instrument: 5973hp61.i
Operator: 2323
Column diameter: 0.18



Data File: /chem/5973hp61.i/DG050927B61.b/CY050927B61.d
Report Date: 28-Sep-2005 02:50

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5973hp61.i/DG050927B61.b/CY050927B61.d
Lab Smp Id: VSTD010 Client Smp ID: VSTD010
Inj Date : 27-SEP-2005 19:34
Operator : 2323 Inst ID: 5973hp61.i
Smp Info : VSTD010:2323
Misc Info : 61
Comment :
Method : /chem/5973hp61.i/DG050927B61.b/W8260-B-25MLv9.m
Meth Date : 28-Sep-2005 02:50 fertile Quant Type: ISTD
Cal Date : 27-SEP-2005 19:34 Cal File: CY050927B61.d
Als bottle: 22 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DC.sub
Target Version: 3.50
Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	volume of water
DF	1.00000	dilution factor

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1	Fluorobenzene	96	3.517	3.517	(1.000)	215798	125.000	
* 2	Chlorobenzene-d5	117	5.069	5.069	(1.000)	166699	125.000	
* 3	1,4-Dichlorobenzene-d4	152	5.907	5.907	(1.000)	90552	125.000	
$ 4	Dibromofluoromethane	113	2.739	2.739	(0.779)	117477	250.000	250
$ 5	1,2-Dichloroethane-d4	65	3.267	3.267	(0.929)	78398	250.000	250
$ 6	Toluene-d8	98	4.437	4.437	(0.875)	402590	250.000	240
$ 7	Bromofluorobenzene	95	5.510	5.510	(0.933)	145378	250.000	240
8	Dichlorodifluoromethane	85	0.687	0.687	(0.195)	165874	250.000	250
9	Chloromethane	50	0.757	0.757	(0.215)	227988	250.000	230 (M)
10	Vinyl Chloride	62	0.790	0.790	(0.225)	163662	250.000	270
11	Bromomethane	94	0.915	0.915	(0.260)	74732	250.000	230
12	Chloroethane	64	0.964	0.964	(0.274)	67259	250.000	230
13	Trichlorofluoromethane	101	1.019	1.019	(0.290)	202514	250.000	260
15	Acrolein	56	1.389	1.389	(0.395)	32047	2500.00	2400
16	1,1-Dichloroethene	96	1.231	1.231	(0.350)	128673	250.000	250

Data File: /chem/5973hp61.i/DG050927B61.b/CY050927B61.d
Report Date: 28-Sep-2005 02:50

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	
17	1,1,1-trichloro-2,2,2-trifluo	117	1.231	1.231	(0.350)	58783	250.000	230	
20	1,1,2-trichloro-1,2,2-trifluo	85	1.247	1.247	(0.355)	52439	250.000	250	
18	Acetone	43	1.536	1.536	(0.437)	75532	1250.00	1400	
19	Iodomethane	142	1.296	1.296	(0.369)	152840	250.000	280	
21	Carbon disulfide	76	1.242	1.242	(0.353)	408502	250.000	260	
22	3-Chloropropene	39	1.454	1.454	(0.413)	69020	250.000	140	
23	Acetonitrile	41	1.803	1.803	(0.512)	4885	250.000	210 (M)	2
163	Methyl acetate	43	1.607	1.607	(0.457)	31127	250.000	210	
24	Methylene Chloride	84	1.509	1.509	(0.429)	128738	250.000	250	
25	Acrylonitrile	53	1.993	1.993	(0.567)	281126	2500.00	2400	
27	trans-1,2-Dichloroethene	96	1.590	1.590	(0.452)	155623	250.000	240	
28	Methyl-tert-butyl ether	73	1.656	1.656	(0.471)	151083	250.000	230	
30	1,1-Dichloroethane	63	1.949	1.949	(0.554)	261882	250.000	240	
32	Vinyl acetate	43	2.145	2.145	(0.610)	213290	500.000	540	
33	Isopropyl ether	45	1.884	1.884	(0.536)	381768	250.000	260	
35	2,2-Dichloropropane	77	2.418	2.418	(0.687)	116691	250.000	160	
34	cis-1,2-Dichloroethene	96	2.336	2.336	(0.664)	155134	250.000	240	
31	Chloroprene	53	1.933	1.933	(0.550)	191028	250.000	250	
37	2-butanone	43	2.880	2.880	(0.819)	86424	1250.00	1200	
36	Propionitrile	54	3.180	3.180	(0.904)	231325	12500.0	11000	
39	Methacrylonitrile	41	3.202	3.202	(0.910)	277853	2500.00	2400	
40	Bromochloromethane	128	2.494	2.494	(0.709)	53790	250.000	240	
42	Chloroform	83	2.575	2.575	(0.732)	289895	250.000	260	
43	1,1,1-Trichloroethane	97	2.739	2.739	(0.779)	260733	250.000	250	
44	Cyclohexane	84	2.478	2.478	(0.704)	160098	250.000	260	
50	Isobutyl alcohol	43	3.457	3.457	(0.983)	69362	12500.0	11000	
47	1,1-dichloropropene	75	2.859	2.859	(0.813)	193312	250.000	250	
48	Carbon Tetrachloride	117	2.668	2.668	(0.759)	177267	250.000	250	
51	Benzene	78	3.114	3.114	(0.885)	560845	250.000	250	
49	1,2-Dichloroethane	62	3.332	3.332	(0.947)	123244	250.000	250	
53	Trichloroethene	130	3.642	3.642	(1.036)	193313	250.000	240	
54	Methylcyclohexane	83	3.621	3.621	(1.029)	181719	250.000	260	
55	1,2-Dichloropropane	63	3.969	3.969	(1.128)	126824	250.000	260	
56	Dibromomethane	174	3.909	3.909	(1.111)	58476	250.000	240	
58	Methylmethacrylate	69	4.143	4.143	(1.178)	298206	2500.00	2600	
57	1,4-dioxane	88	4.138	4.138	(1.176)	20473	12500.0	9700	
59	Bromodichloromethane	83	4.023	4.023	(1.144)	159598	250.000	260	
60	2-chloroethyl vinyl ether	63	4.345	4.345	(1.235)	4635	2500.00	710 (M)	2
61	cis-1,3-Dichloropropene	75	4.350	4.350	(1.237)	165485	250.000	260 (H)	
62	4-Methyl-2-pentanone	43	4.639	4.639	(0.915)	216911	1250.00	1300	2
63	Toluene	92	4.459	4.459	(0.880)	377007	250.000	250	
64	trans-1,3-Dichloropropene	75	4.649	4.649	(0.917)	121002	250.000	260 (H)	2
66	Ethylmethacrylate	69	4.731	4.731	(0.933)	692820	2500.00	2600	
65	1,1,2-Trichloroethane	97	4.715	4.715	(0.930)	73535	250.000	240	
67	1,3-Dichloropropane	76	4.818	4.818	(0.951)	116602	250.000	250	
68	Tetrachloroethene	164	4.622	4.622	(0.912)	143460	250.000	240	
69	2-hexanone	43	4.976	4.976	(0.982)	142790	1250.00	1200	

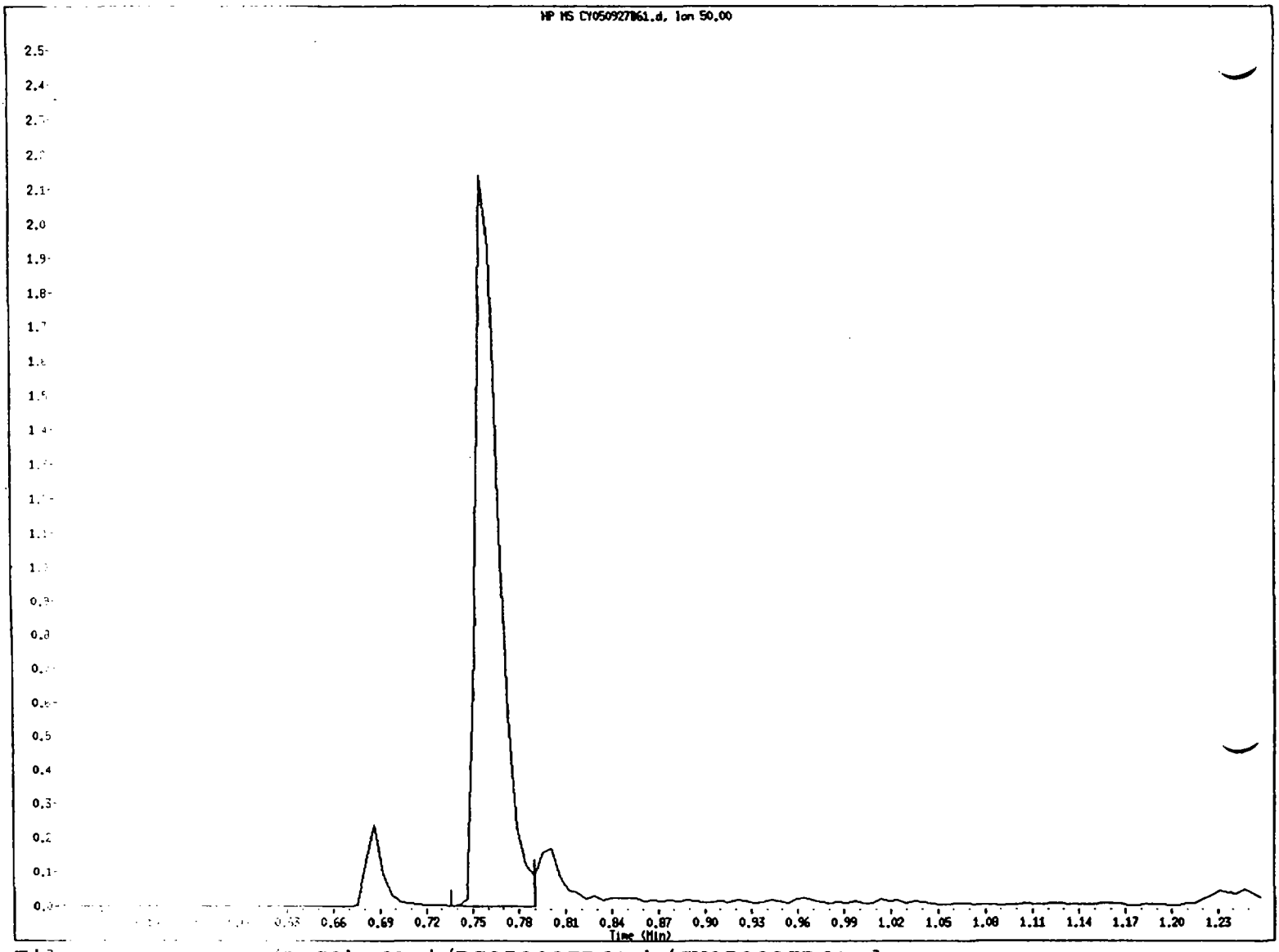
Data File: /chem/5973hp61.i/DG050927B61.b/CY050927B61.d
Report Date: 28-Sep-2005 02:50

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
70	Dibromochloromethane	129	4.780	4.780	(0.943)	109141	250.000	260
71	1,2-Dibromoethane	107	4.867	4.867	(0.960)	76290	250.000	240
72	Chlorobenzene	112	5.074	5.074	(1.001)	422735	250.000	250
74	1,1,1,2-Tetrachloroethane	131	5.101	5.101	(1.006)	137804	250.000	260
75	Ethylbenzene	106	5.090	5.090	(1.004)	232549	250.000	240
76	m,p-Xylene	106	5.145	5.145	(1.015)	583799	500.000	490
77	o-Xylene	106	5.303	5.303	(1.046)	280528	250.000	250
78	Styrene	104	5.319	5.319	(1.049)	406933	250.000	250
79	Bromoform	173	5.324	5.324	(1.050)	57447	250.000	270
81	Isopropyl Benzene	105	5.417	5.417	(1.069)	729094	250.000	250
82	1,1,2,2-Tetrachloroethane	83	5.586	5.586	(0.946)	74686	250.000	250
84	Bromobenzene	156	5.548	5.548	(1.095)	185162	250.000	240
83	1,2,3-Trichloropropane	110	5.635	5.635	(1.112)	19228	250.000	250
85	trans-1,4-dichloro-2-butene	53	5.651	5.651	(1.115)	721534	10000.0	11000
86	n-Propyl Benzene	91	5.559	5.559	(0.941)	869854	250.000	250
87	2-Chlorotoluene	126	5.613	5.613	(0.950)	195686	250.000	240
89	1,3,5-Trimethyl Benzene	105	5.629	5.629	(0.953)	651152	250.000	250
88	4-Chlorotoluene	126	5.673	5.673	(0.960)	199036	250.000	250
91	tert-Butyl Benzene	119	5.744	5.744	(0.972)	620964	250.000	250
92	1,2,4-Trimethyl Benzene	105	5.765	5.765	(0.976)	657575	250.000	250
93	sec-Butyl Benzene	105	5.804	5.804	(0.982)	790266	250.000	250
94	1,3-Dichlorobenzene	146	5.880	5.880	(0.995)	368475	250.000	240
95	p-Isopropyl Toluene	119	5.853	5.853	(0.991)	666473	250.000	240
96	1,4-Dichlorobenzene	146	5.912	5.912	(1.001)	351289	250.000	230
	n-Butyl Benzene	91	6.000	6.000	(1.016)	577114	250.000	230
	1,2-Dichlorobenzene	146	6.059	6.059	(1.026)	307334	250.000	240
101	1,2-Dibromo-3-Chloropropane	75	6.342	6.342	(1.074)	11834	250.000	230
102	1,2,4-Trichlorobenzene	180	6.593	6.593	(1.116)	178155	250.000	190
103	Hexachlorobutadiene	225	6.582	6.582	(1.114)	106538	250.000	210
104	Naphthalene	128	6.718	6.718	(1.137)	238646	250.000	200
105	1,2,3-Trichlorobenzene	180	6.783	6.783	(1.148)	135325	250.000	180
M 106	1,2-Dichloroethene (total)	96				310757	500.000	490
M 107	Xylene (total)	106				864327	250.000	770

QC Flag Legend

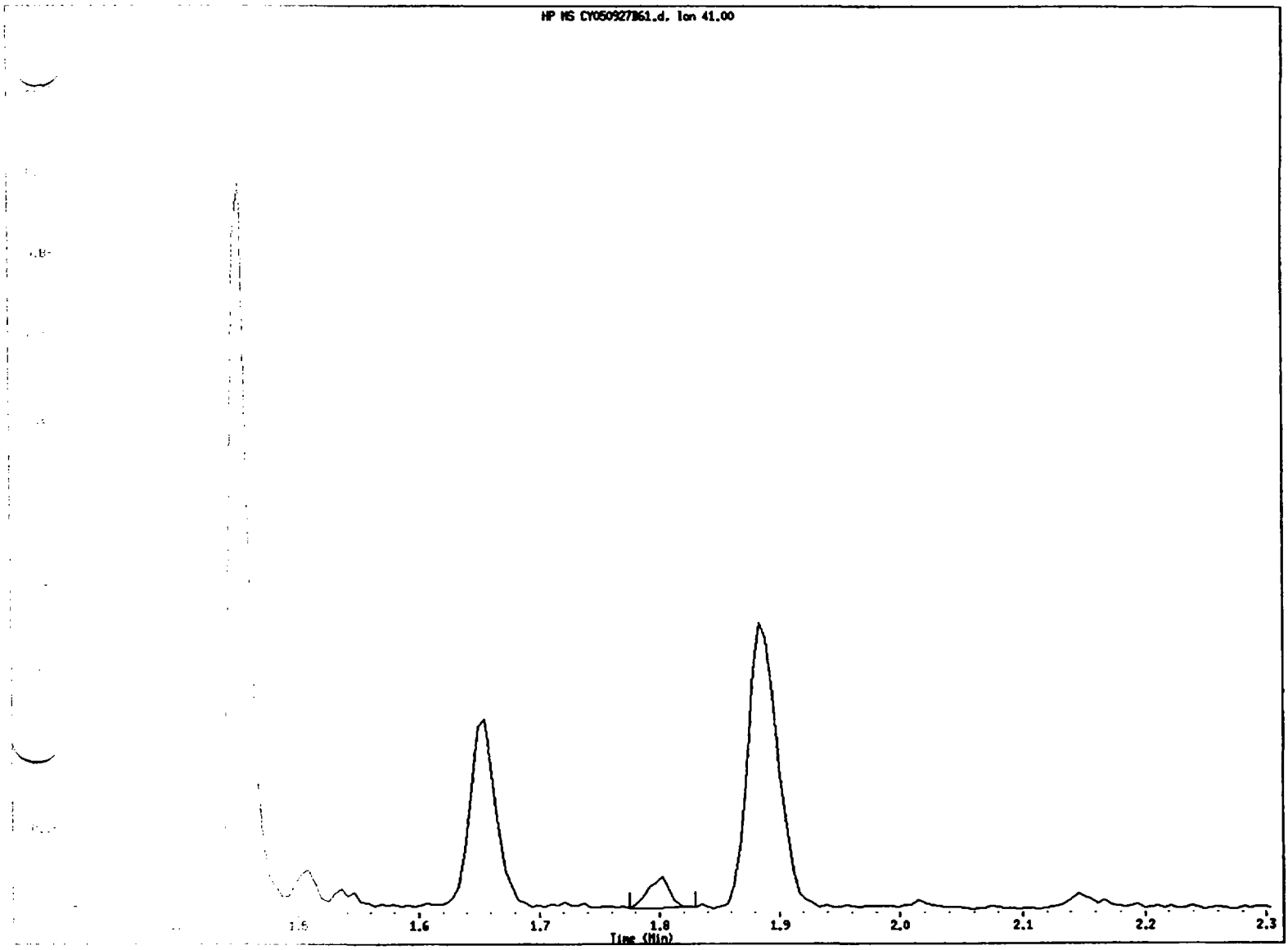
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Chloromethane CAS Number 74-87-3 Area = 227988 Manually integrated



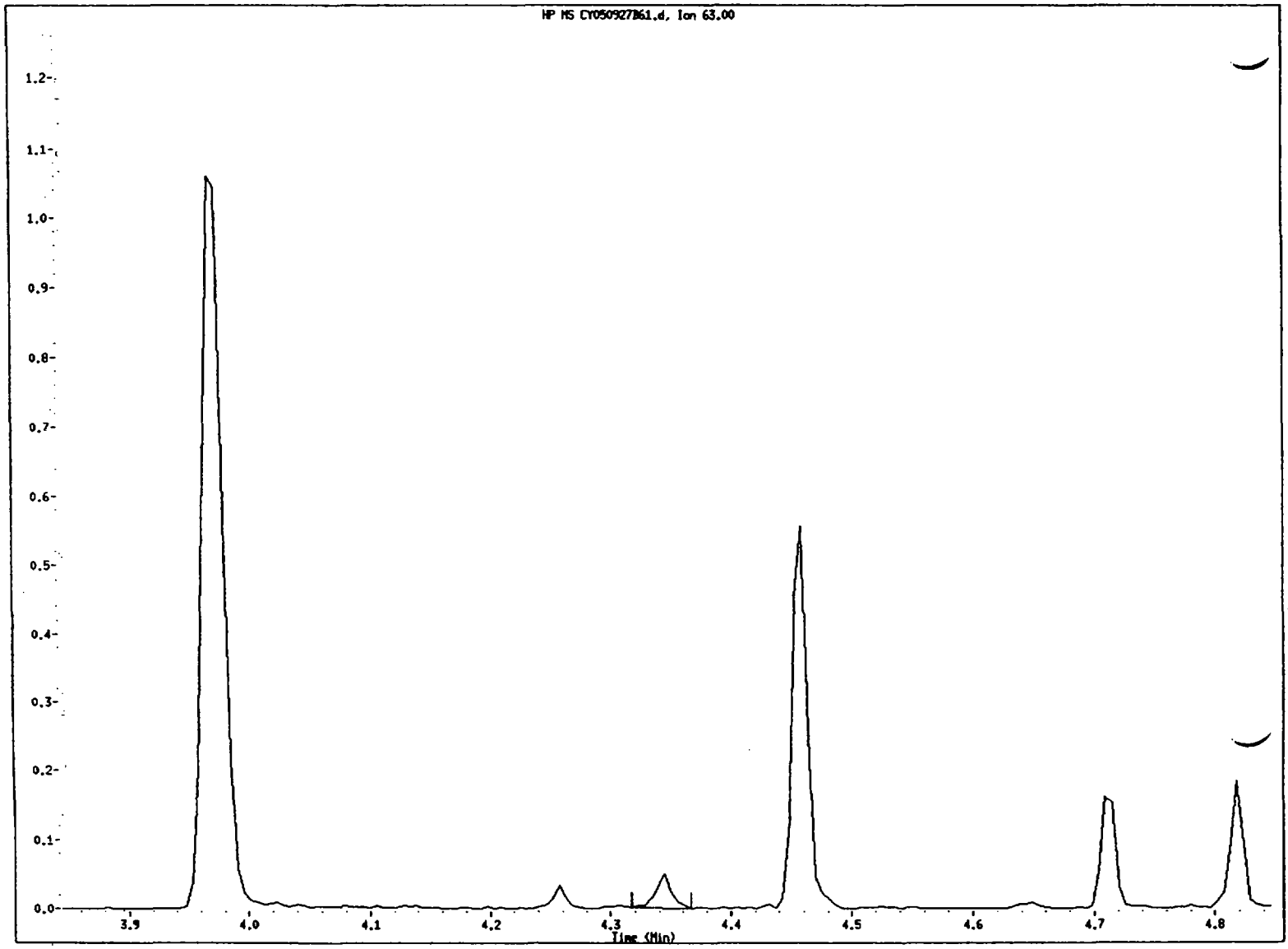
File [illegible]973hp61.i/DG050927B61.b/CY050927B61.d
Client [illegible]
Inst[illegible]973hp61.i
Inje[illegible] and Time: 27-SEP-2005 19:34
Retention Time: 0.76
Operator [illegible]523

[illegible] MS Number 75-05-8 Area = 4885 Manually integrated



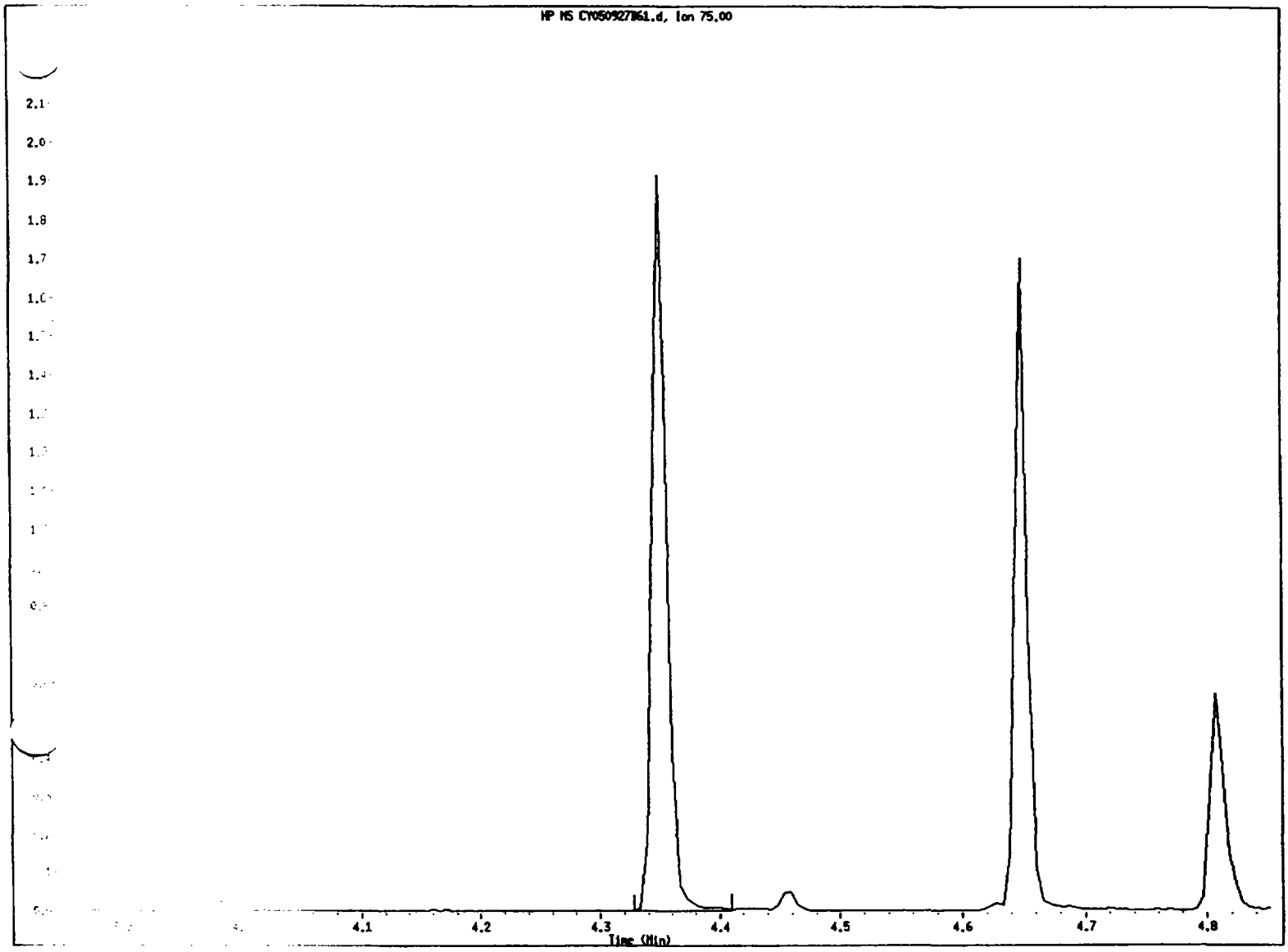
Fi[illegible]5973hp61.i/DG050927B61.b/CY050927B61.d
[illegible]
In[illegible]73hp61.i
[illegible]d Time: 27-SEP-2005 19:34
Re[illegible] 1.80
Qu[illegible]

2-chloroethyl vinyl ether CAS Number 110-75-8 Area = 4635 Manually integrated



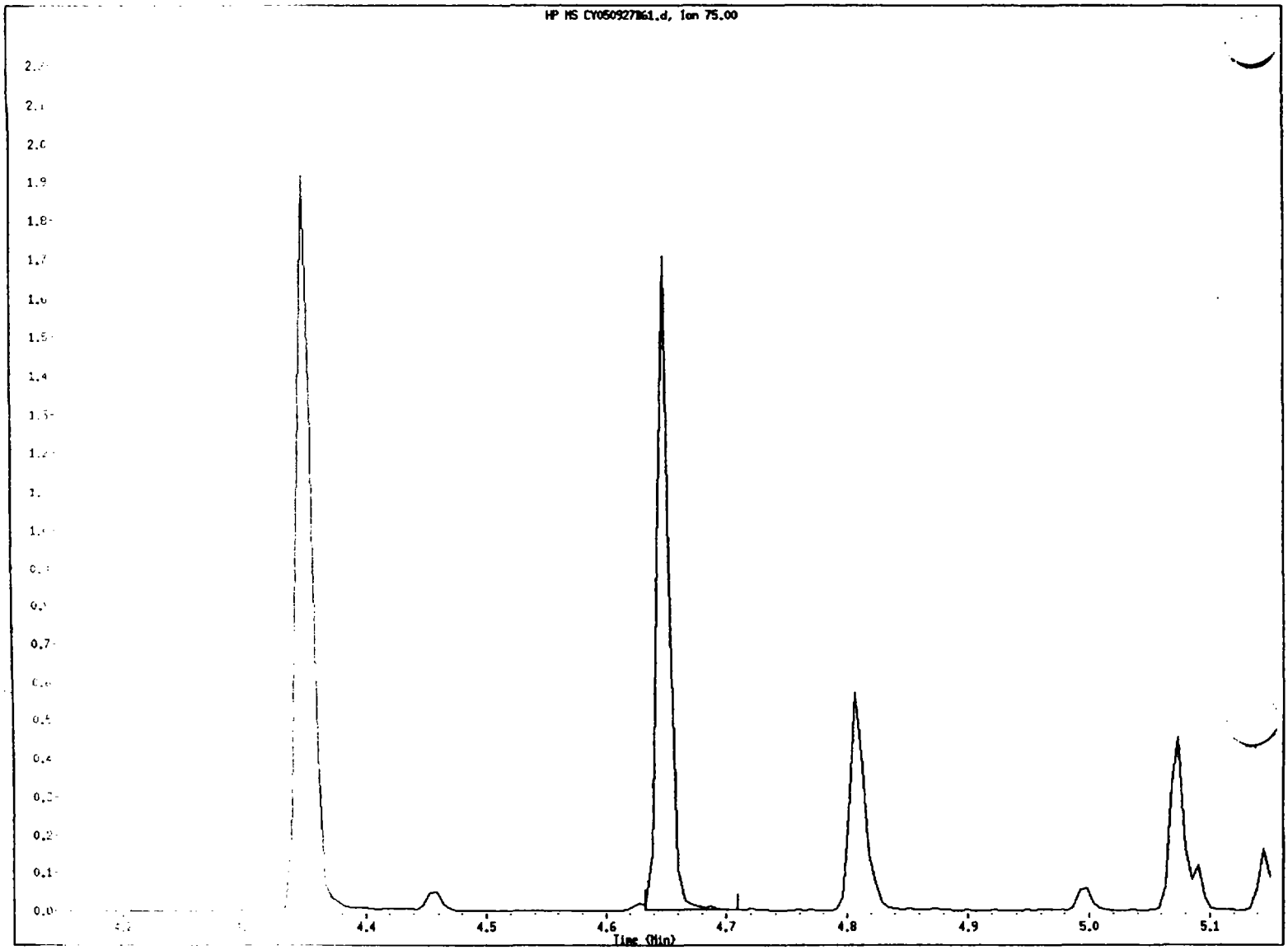
File name: /chem/5973hp61.i/DG050927B61.b/CY050927B61.d
Client ID: VSTD010
Instrument ID: 5973hp61.i
Injection Date and Time: 27-SEP-2005 19:34
Retention Time: 4.34
Operator ID: 2323

cis-[illegible]propene CAS Number 10061-01-5 Area = 165485 User selected hit



File [illegible]5973hp61.i/DG050927B61.b/CY050927B61.d
Cli[illegible]
Ins[illegible]-73hp61.i
Inj[illegible]d Time: 27-SEP-2005 19:34
Re[illegible]4.35
Ope[illegible]

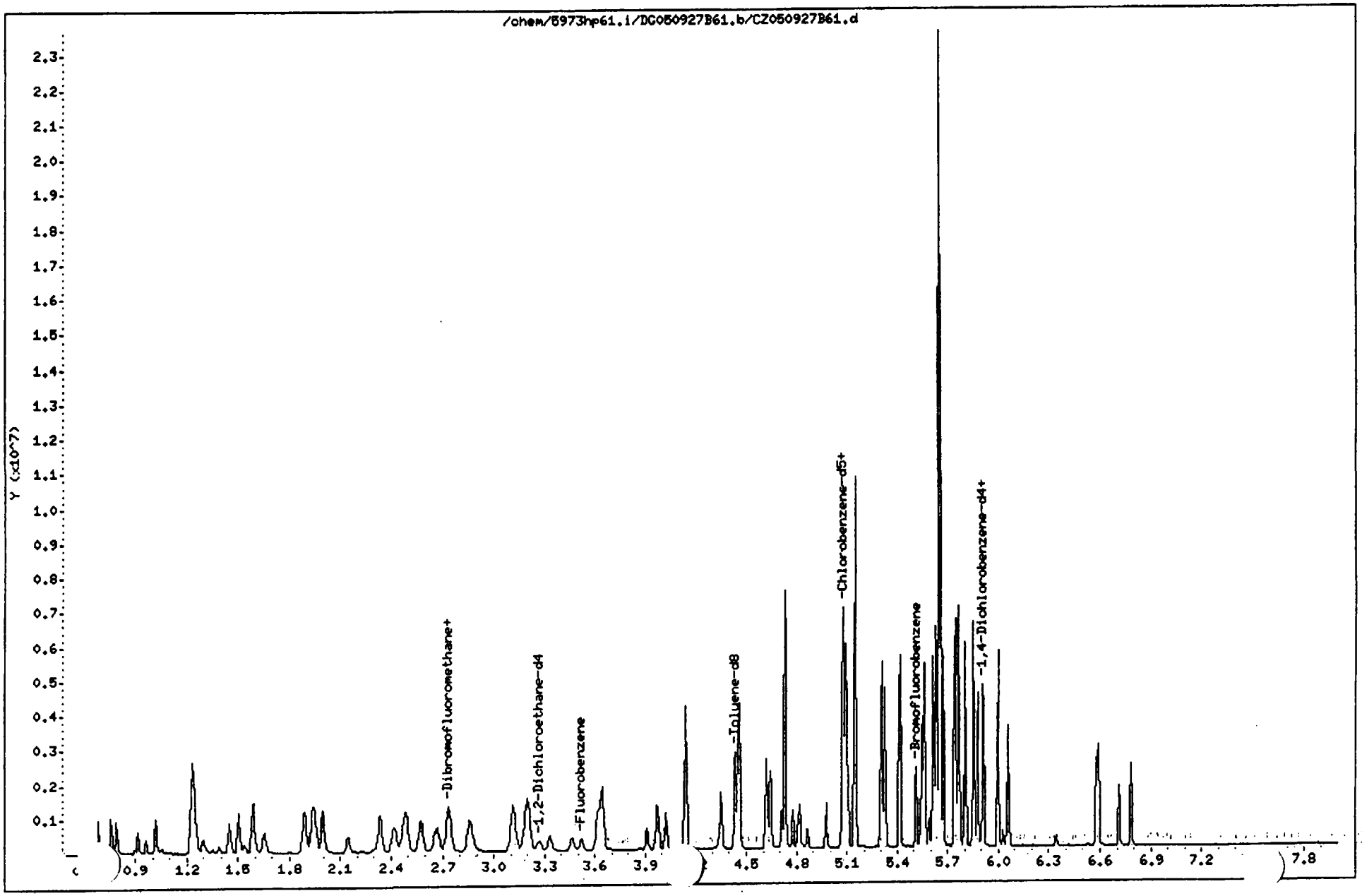
trans-1 [illegible] Dichloropropene CAS Number 10061-02-6 Area = 121002 User selected hi



File name: [illegible] 5973hp61.i/DG050927B61.b/CY050927B61.d
Client ID: [illegible]
Instrument ID: 5973hp61.i
Injection Date and Time: 27-SEP-2005 19:34
Retention Time: 4.65
Operator ID: 2323

Data File: /chem/5973hp61.i/DC050927B61.b/CZ050927B61.d
Date : 27-SEP-2005 20:02
Client ID: VSTD025
Sample Info: VSTD025:2323
Purge Volume: 25.0
Column phase: RTX-VMS

Instrument: 5973hp61.i
Operator: 2323
Column diameter: 0.18



[illegible]/5973hp61.i/DG050927B61.b/CZ050927B61.d
Report [illegible] Sep-2005 02:50

CompuChem

[illegible]46 UPDATE III METHOD 8260B QUANT & RATIO REPORT
[illegible] 5973hp61.i/DG050927B61.b/CZ050927B61.d
[illegible] Client Smp ID: VSTD025
[illegible] -2005 20:02
[illegible] Inst ID: 5973hp61.i
[illegible] STD025:2323
[illegible]
[illegible]
Method [illegible] 5973hp61.i/DG050927B61.b/W8260-B-25MLv9.m
[illegible] Sep-2005 02:50 fertile Quant Type: ISTD
[illegible] -2005 20:02 Cal File: CZ050927B61.d
[illegible] Calibration Sample, Level: 5
[illegible]
[illegible] Compound Sublist: DC.sub
[illegible] 50
[illegible] dante

[illegible] Formula: Amt * DF * 1/(Vo) * CpndVariable

[illegible]	Value	Description
[illegible]	[illegible]	Dilution Factor
[illegible]	[illegible]	volume of water
[illegible]	[illegible]	dilution factor

[illegible] Local Compound Variable

[illegible]	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
[illegible]	96	3.517	3.517	(1.000)	220232	125.000	
[illegible]	117	5.069	5.069	(1.000)	166686	125.000	
[illegible]	152	5.907	5.907	(1.000)	92805	125.000	
[illegible]	113	2.739	2.739	(0.779)	291433	625.000	600
[illegible]	65	3.267	3.267	(0.929)	186618	625.000	580
[illegible]	98	4.437	4.437	(0.875)	951505	625.000	570
[illegible]	95	5.515	5.515	(0.934)	346944	625.000	560
[illegible]	85	0.686	0.686	(0.195)	361146	625.000	530
[illegible]	50	0.757	0.757	(0.215)	587989	625.000	570 (M)
[illegible]	62	0.790	0.790	(0.225)	336821	625.000	540
[illegible]	94	0.915	0.915	(0.260)	195723	625.000	600
[illegible]	64	0.964	0.964	(0.274)	155326	625.000	530
[illegible]	101	1.018	1.018	(0.290)	451866	625.000	570
[illegible]	56	1.389	1.389	(0.395)	80696	6250.00	6000
[illegible]	96	1.231	1.231	(0.350)	283064	625.000	540

2

Data File: /chem/5973hp61.i/DG050927B61.b/CZ050927B61.d
Report Date: 28-Sep-2005 02:50

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
17 1,1,1-trichloro-2,2,2-trifluo	117	1.231	1.231	(0.350)	135358	625.000	530
20 1,1,2-trichloro-1,2,2-trifluo	85	1.247	1.247	(0.355)	112343	625.000	520
18 Acetone	43	1.541	1.541	(0.438)	147825	3125.00	2600
19 Iodomethane	142	1.296	1.296	(0.369)	353530	625.000	640(A)
21 Carbon disulfide	76	1.242	1.242	(0.353)	920200	625.000	580
22 3-Chloropropene	39	1.454	1.454	(0.413)	241869	625.000	490
23 Acetonitrile	41	1.808	1.808	(0.514)	12262	625.000	530(M)
163 Methyl acetate	43	1.606	1.606	(0.457)	84774	625.000	550 2
24 Methylene Chloride	84	1.503	1.503	(0.427)	310183	625.000	590
25 Acrylonitrile	53	1.993	1.993	(0.567)	708693	6250.00	6000
27 trans-1,2-Dichloroethene	96	1.590	1.590	(0.452)	372400	625.000	570
28 Methyl-tert-butyl ether	73	1.655	1.655	(0.471)	421258	625.000	640(A)
30 1,1-Dichloroethane	63	1.949	1.949	(0.554)	667860	625.000	600
32 Vinyl acetate	43	2.145	2.145	(0.610)	538584	1250.00	1300(A)
33 Isopropyl ether	45	1.889	1.889	(0.537)	943475	625.000	620
35 2,2-Dichloropropane	77	2.417	2.417	(0.687)	486998	625.000	670(A)
34 cis-1,2-Dichloroethene	96	2.336	2.336	(0.664)	392250	625.000	600
31 Chloroprene	53	1.933	1.933	(0.550)	461003	625.000	600
37 2-butanone	43	2.886	2.886	(0.820)	222971	3125.00	3000
36 Propionitrile	54	3.185	3.185	(0.906)	616875	31250.0	29000
39 Methacrylonitrile	41	3.201	3.201	(0.910)	700808	6250.00	6000
40 Bromochloromethane	128	2.494	2.494	(0.709)	132620	625.000	570
42 Chloroform	83	2.575	2.575	(0.732)	700685	625.000	610
43 1,1,1-Trichloroethane	97	2.739	2.739	(0.779)	630310	625.000	600
Cyclohexane	84	2.477	2.477	(0.704)	358971	625.000	560
0 Isobutyl alcohol	43	3.463	3.463	(0.985)	194222	31250.0	31000
47 1,1-dichloropropene	75	2.858	2.858	(0.813)	447885	625.000	560
48 Carbon Tetrachloride	117	2.668	2.668	(0.759)	473130	625.000	640(A)
51 Benzene	78	3.114	3.114	(0.885)	1325449	625.000	590
49 1,2-Dichloroethane	62	3.332	3.332	(0.947)	304597	625.000	610
53 Trichloroethene	130	3.642	3.642	(1.036)	446189	625.000	540
54 Methylcyclohexane	83	3.620	3.620	(1.029)	389210	625.000	540
55 1,2-Dichloropropane	63	3.969	3.969	(1.128)	303889	625.000	600
56 Dibromomethane	174	3.909	3.909	(1.111)	156972	625.000	620
58 Methylmethacrylate	69	4.143	4.143	(1.178)	757060	6250.00	6400(A)
57 1,4-dioxane	88	4.143	4.143	(1.178)	64177	31250.0	30000
59 Bromodichloromethane	83	4.023	4.023	(1.144)	401280	625.000	630(A)
60 2-chloroethyl vinyl ether	63	4.344	4.344	(1.235)	71194	6250.00	11000(A)
61 cis-1,3-Dichloropropene	75	4.350	4.350	(1.237)	423955	625.000	640(AH)
62 4-Methyl-2-pentanone	43	4.638	4.638	(0.915)	537343	3125.00	3100(A) 2
63 Toluene	92	4.459	4.459	(0.880)	876836	625.000	570
64 trans-1,3-Dichloropropene	75	4.649	4.649	(0.917)	315653	625.000	690(AH)
66 Ethylmethacrylate	69	4.731	4.731	(0.933)	1682665	6250.00	6300(A) 2
65 1,1,2-Trichloroethane	97	4.715	4.715	(0.930)	178037	625.000	590
67 1,3-Dichloropropane	76	4.818	4.818	(0.951)	284024	625.000	600
68 Tetrachloroethene	164	4.622	4.622	(0.912)	328938	625.000	540
69 2-hexanone	43	4.976	4.976	(0.982)	377318	3125.00	3100

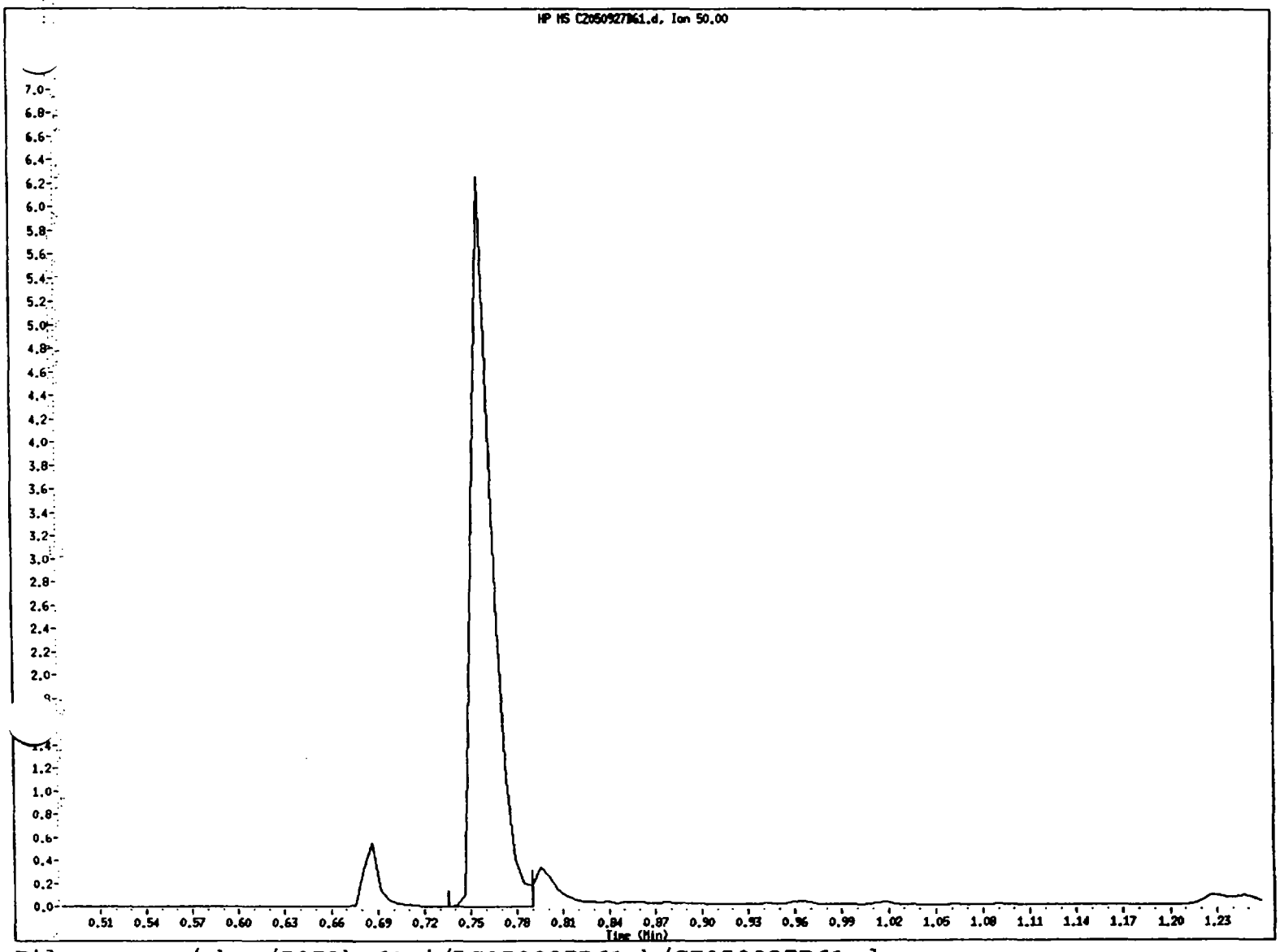
Data File: /chem/5973hp61.i/DG050927B61.b/CZ050927B61.d
Report Date: 28-Sep-2005 02:50

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
70 Dibromochloromethane	129	4.780	4.780	(0.943)	279568	625.000	670(A)
71 1,2-Dibromoethane	107	4.867	4.867	(0.960)	191679	625.000	600
72 Chlorobenzene	112	5.074	5.074	(1.001)	994410	625.000	580
74 1,1,1,2-Tetrachloroethane	131	5.101	5.101	(1.006)	354331	625.000	680(A)
75 Ethylbenzene	106	5.090	5.090	(1.004)	545776	625.000	570
76 m,p-Xylene	106	5.145	5.145	(1.015)	1368550	1250.00	1200
77 o-Xylene	106	5.303	5.303	(1.046)	665679	625.000	600
78 Styrene	104	5.319	5.319	(1.049)	1007469	625.000	620
79 Bromoform	173	5.330	5.330	(1.052)	150611	625.000	720(A)
81 Isopropyl Benzene	105	5.417	5.417	(1.069)	1709401	625.000	590
82 1,1,2,2-Tetrachloroethane	83	5.591	5.591	(0.947)	184601	625.000	590
84 Bromobenzene	156	5.548	5.548	(1.095)	448245	625.000	590
83 1,2,3-Trichloropropane	110	5.635	5.635	(1.112)	47024	625.000	610
85 trans-1,4-dichloro-2-butene	53	5.651	5.651	(1.115)	1773313	25000.0	27000(A)
86 n-Propyl Benzene	91	5.564	5.564	(0.942)	2066166	625.000	580
87 2-Chlorotoluene	126	5.613	5.613	(0.950)	472545	625.000	570
89 1,3,5-Trimethyl Benzene	105	5.629	5.629	(0.953)	1548217	625.000	580
88 4-Chlorotoluene	126	5.673	5.673	(0.960)	476548	625.000	580
91 tert-Butyl Benzene	119	5.744	5.744	(0.972)	1546887	625.000	610
92 1,2,4-Trimethyl Benzene	105	5.765	5.765	(0.976)	1565455	625.000	580
93 sec-Butyl Benzene	105	5.803	5.803	(0.982)	1840828	625.000	560
94 1,3-Dichlorobenzene	146	5.880	5.880	(0.995)	878646	625.000	560
95 p-Isopropyl Toluene	119	5.852	5.852	(0.991)	1603175	625.000	570
96 1,4-Dichlorobenzene	146	5.912	5.912	(1.001)	850666	625.000	550
99 n-Butyl Benzene	91	5.999	5.999	(1.016)	1334831	625.000	530
98 1,2-Dichlorobenzene	146	6.059	6.059	(1.026)	741190	625.000	570
101 1,2-Dibromo-3-Chloropropane	75	6.342	6.342	(1.074)	31781	625.000	610
102 1,2,4-Trichlorobenzene	180	6.593	6.593	(1.116)	437954	625.000	460
103 Hexachlorobutadiene	225	6.576	6.576	(1.113)	242540	625.000	470
104 Naphthalene	128	6.712	6.712	(1.136)	628489	625.000	530
105 1,2,3-Trichlorobenzene	180	6.783	6.783	(1.148)	339561	625.000	440
M 106 1,2-Dichloroethene (total)	96				764650	1250.00	1200
M 107 Xylene (total)	106				2034229	625.000	1800

QC Flag Legend

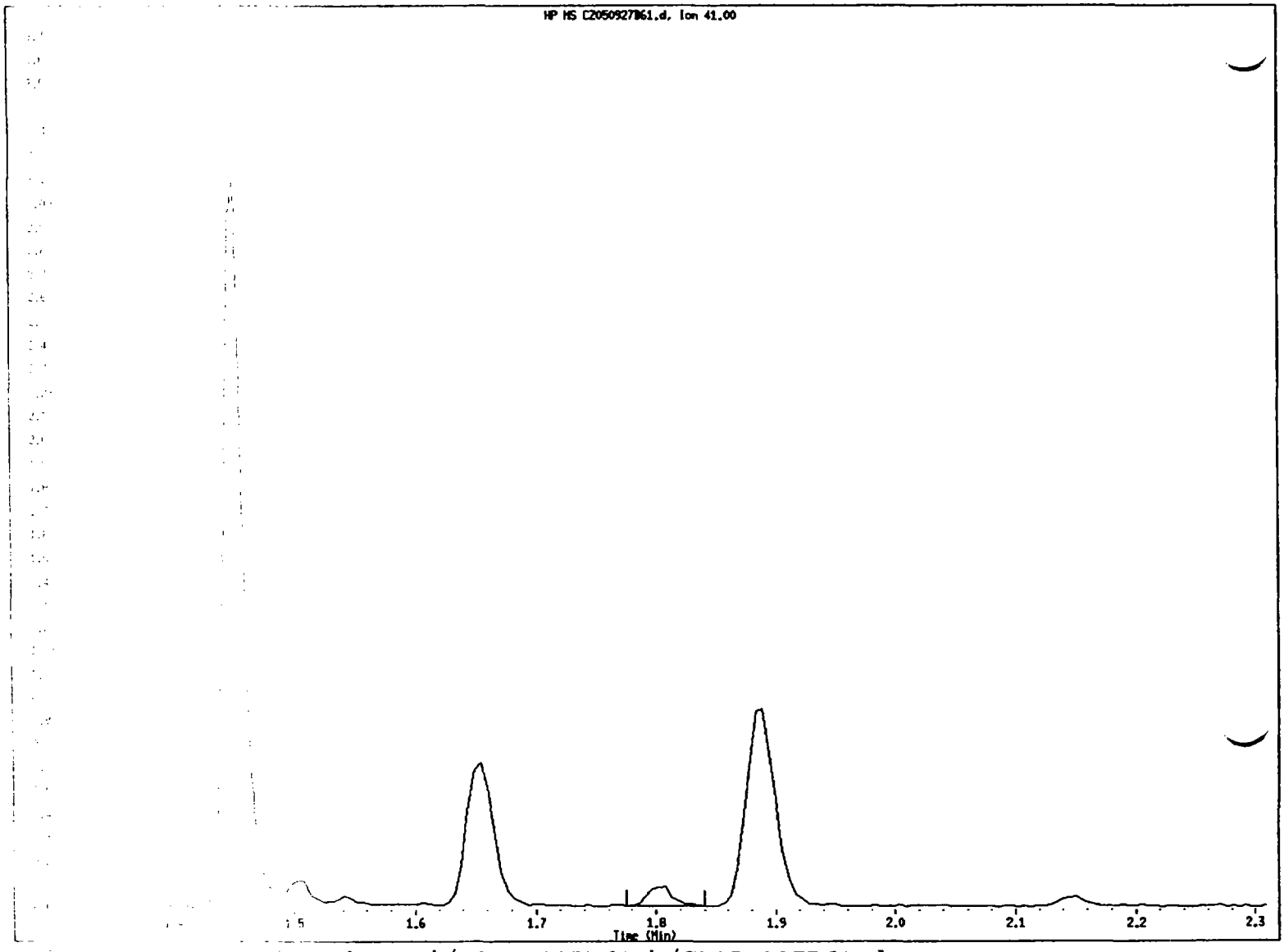
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Chloromethane CAS Number 74-87-3 Area = 587989 Manually integrated



File name: /chem/5973hp61.i/DG050927B61.b/CZ050927B61.d
Client ID: VSTD025
Instrument ID: 5973hp61.i
Injection Date and Time: 27-SEP-2005 20:02
Retention Time: 0.76
Operator ID: 2323

CAS Number 75-05-8 Area = 12262 Manually integrated



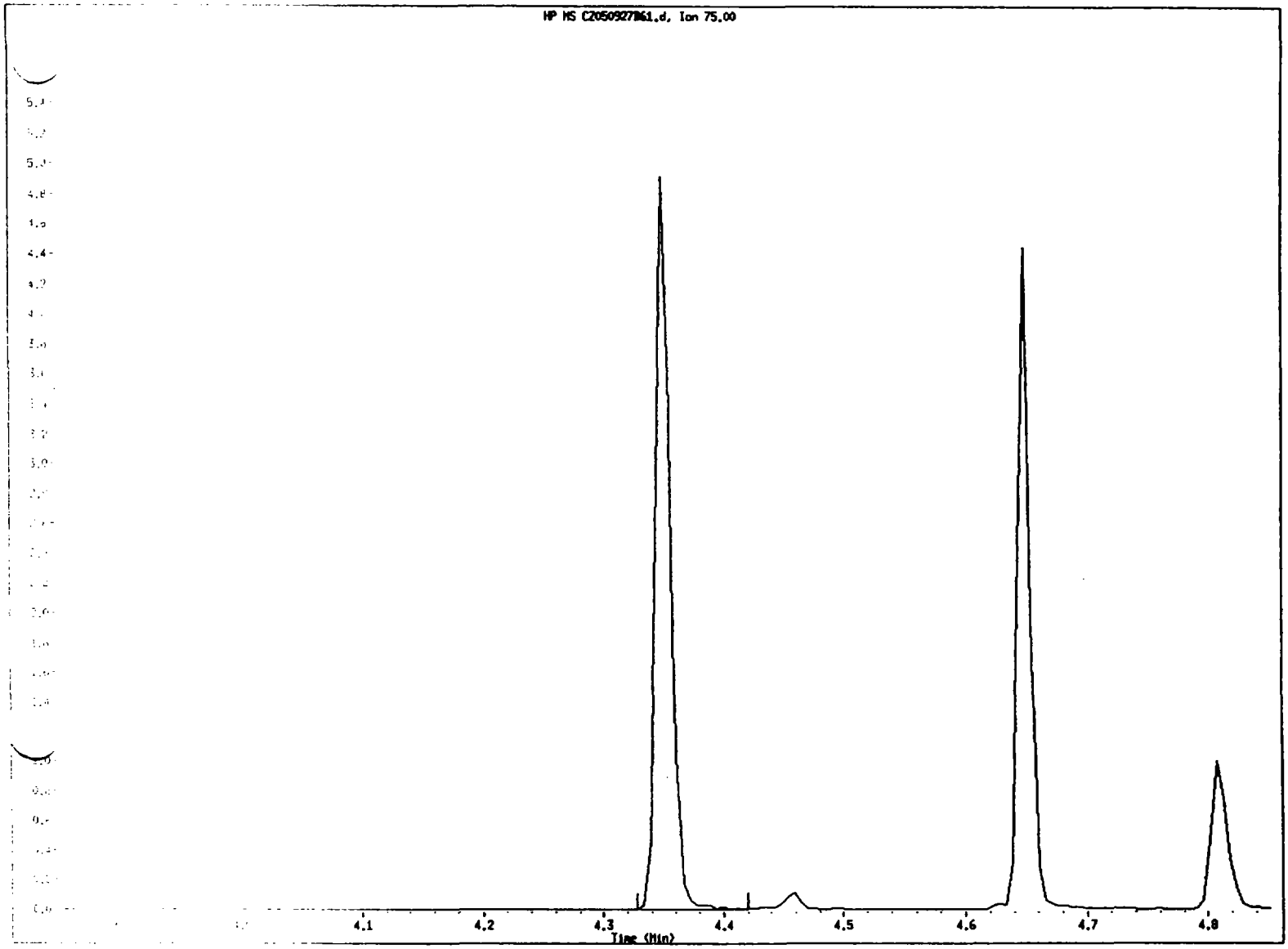
5973hp61.i/DG050927B61.b/CZ050927B61.d

73hp61.i

Time: 27-SEP-2005 20:02

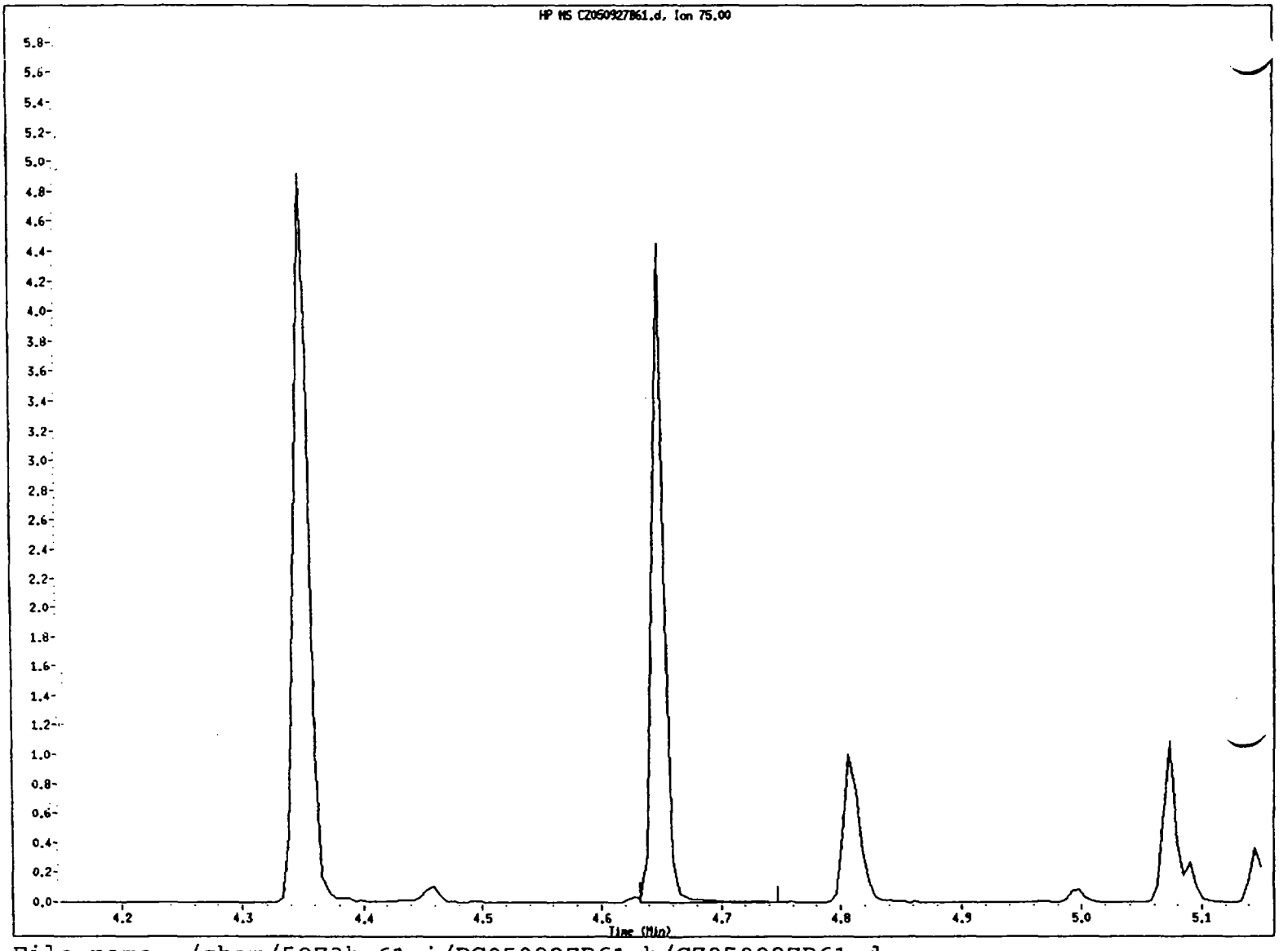
1.81

cis [illegible] Dichloropropene CAS Number 10061-01-5 Area = 423955 User selected hit



File [illegible] 5973hp61.i/DG050927B61.b/CZ050927B61.d
Client [illegible]
Instrument [illegible] 5973hp61.i
Injection Date and Time: 27-SEP-2005 20:02
Retention Time: 4.35
Operator [illegible]

trans-1,3-Dichloropropene CAS Number 10061-02-6 Area = 315653 User selected hi



File name: /chem/5973hp61.i/DG050927B61.b/CZ050927B61.d
Client ID: VSTD025
Instrument ID: 5973hp61.i
Injection Date and Time: 27-SEP-2005 20:02
Retention Time: 4.65
Operator ID: 2323

COMPUCHEM a division of Liberty Analytical Corp DATE 9/27/2005 INITIAL TIME OF TUNE 1713 SHIFT/S(A)____(B) ✓ (C)____

GC/MS VOLATILE RUN LOG TIME TUNE EXPIRES 0513 LINKER /METHOD W8260B 2mL

COMPUCHEM LOGBOOK 11 I (4) 8 (5972hp61)

PREVENTIVE MAINTENANCE None

	CTBD	FILE NAME	RTBD	pH	Vial	DATE	TIME	Client ID	SDG#	INJ. VOL.*	DF+	CHEMIST	COMMENTS(ETC.)/ DISPOSITION
1		B6050927B61	/	—	—	9/27/2005	1713	BFB	—	2L	—	2323	LCD=SID
2	/	CV050927B61	US	—	—	/ /	1722	VSTD005	—	2mL	—		
3		CV050927B61	/	—	—	/ /	1812	0.5	—		—		
4		CW050927B61	/	—	—	/ /	1839	001	—		—		
5		CX050927B61	/	—	—	/ /	1907	005	—		—		Ical passed
6		C7050927B61	/	—	—	/ /	1934	1010	—		—		8260B 25mL
7		C7050927B61	/	—	—	/ /	2002	025	—		—		
8	/	C3050927B61	CS	—	—	/ /	2030	VIBLKAA	—		—		
9	/	80800B61	CS	—	—	/ /	2059	VBLKCG	Various		—		
10		80800RB61	/	—	—	/ /	2128	/ /			—		
11		80817MH9-27-05	/	—	—	/ /	2156	VCGLCS			—		0.5 ppb / Drapes
12		80880B61	/	—	—	/ /	2225	VCGLCS		25mL	—		5ppb LCS
13		CC050927B61	/	—	—	/ /	2255	VIBLKAA	—	2mL	—		
14		780403RB61	/	1	2	/ /	2323	GRW-3	7804	25mL	—		
15		780402DSB61	/	1	2	/ /	2351	GRW-2		125	2		
16		782509B61	/	1	1	9/28/05	0018	EQUIP BLNK	7825	25mL	—		
17		10	/	1	1	/ /	0046	TRIP BLNK			—		
18		03R	/	1	2	/ /	0114	MW-10D BOTTOM			—		
19		04	/	1	1	/ /	0142	MW-1S			—		
20		05	/	1	1	/ /	0205	MW-6S			—		
21		06	/	1	1	/ /	0227	MW-6D			—		
22		07	/	1	1	/ /	0250	MW-2D			—		
23		11	/	1	1	/ /	0312	MW-7S			—		
24		12	/	1	1	/ /	0335	MW-7D			—		

*On-column sample aliquot
+Not applicable to soil matrix

SUPERVISOR APPROVAL [signature]

Date 9/27/05

Tune (ID #7008) Lot No. 63570

Calibration Group Code / Lot No. DC258

The presence of the Chemist's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist together with the chemist's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

5/25/05:jad

COMPUCHEM a division of Liberty Analytical Corp DATE 9 28 /25 INITIAL TIME OF TUNE 1713 SHIFT/S(A)____(B) ✓ (C)____

GC/MS VOLATILE RUN LOG TIME TUNE EXPIRES 0513 LINKER /METHOD W8260 3.70L

COMPUCHEM LOGBOOK 11 I (4) 8 (5972hp61)

PREVENTIVE MAINTENANCE Mne

	CTBD	FILE NAME	RTBD	pH	Vial	DATE	TIME	Client ID	SDG#	INJ. VOL.*	DF+	CHEMIST	COMMENTS(ETC.)/ DISPOSITION
1		782513 B61	✓	1	1	/ /	0357	MW-8D	7825	2mL	–	7323	LCD = SCD
2		1 14 1	✓	1	1	/ /	0420	MW-D8D	1	1	–		
3		782901 B61	✓	1	1	/ /	0442	AC5GWPWA2C	7829		–		
4		1 902 1	✓	1	1	/ /	0505	" " DUP2C	1		–		
5						/ /							
6						/ /							
7						/ /							
8						/ /							
9						/ /							
10						/ /							
11						/ /							
12						/ /							
13						/ /							
14						/ /							
15						/ /							
16						/ /							
17						/ /							
18						/ /							
19						/ /							
20						/ /							
21						/ /							
22						/ /							
23						/ /							
24						/ /							

*On-column sample aliquot
+Not applicable to soil matrix

SUPERVISOR APPROVAL [signature]

Date 9 28

Tune (ID #7008) Lot No. 63570

Calibration Group Code / Lot No. DC258

The presence of the Chemist's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist together with the chemist's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

5/25/05:jad

b. Continuing Calibration Data (Form VII VOA)

If more than one instrument is used, forms shall be arranged in order by instrument. If multiple continuing calibrations from the same instrument are used, they shall be in chronological order.

(1) Reconstructed Ion Chromatograms and quantitation reports for all continuing (12-hour) calibrations. Spectra not required.

(2) EICPs displaying each manual integration.

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8260B

Lab [illegible] LIBERTY Case No.: SAS No.: SDG No.: 7829

[illegible] 5973HP61 Calibration Date: 09/28/05 Time: 1658

Lab [illegible] c50928B61 Init. Calib. Date(s): 09/27/05 09/27/05

Init. Calib. Times: 1812 2002

GC Column: RTX-VMS ID: 0.18 (mm)

COMPOUND	RRF OR AMOUNT	RRF5 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
[illegible]methane	0.3885000	0.4022536	0.001	3.54	90.00	AVRG
Chloroethane	0.5866200	0.4791312	0.1	-18.32	90.00	AVRG
Vinyl [illegible]	0.3515300	0.3674876	0.001	4.54	20.00	AVRG
Bromomethane	0.1862300	0.1445878	0.001	-22.36	90.00	AVRG
Chloroethane	0.1678300	0.1392274	0.001	-17.04	90.00	AVRG
Trichlorofluoromethane	0.4509500	0.4726559	0.001	4.81	90.00	AVRG
1,1-Dichloroethene	0.2973800	0.3053383	0.001	2.68	20.00	AVRG
Carbon disulfide	0.9068500	0.9333843	0.001	2.92	90.00	AVRG
1,1,2-Trichloro-1,2,2-triflu	0.1217000	0.1291150	0.001	6.09	90.00	AVRG
Acetone	0.0318400	0.0348700	0.001	9.52	90.00	AVRG
Methyl acetate	0.0874800	0.0495080	0.001	-43.41	90.00	AVRG
Methylene chloride	0.3000900	0.2964462	0.001	-1.21	90.00	AVRG
trans-1,2-Dichloroethene	0.3681000	0.3602271	0.001	-2.14	90.00	AVRG
Methyl-tert butyl ether	0.3730600	0.1593467	0.001	-57.29	90.00	AVRG
1,1-Dichloroethane	0.6312400	0.5112323	0.1	-19.01	90.00	AVRG
cis-1,2-Dichloroethene	0.3714100	0.3513384	0.001	-5.40	90.00	AVRG
2-butanone	0.0421300	0.0323874	0.001	-23.12	90.00	AVRG
Chloroform	0.6499300	0.6255171	0.001	-3.76	20.00	AVRG
1,1,1-Trichloroethane	0.6004100	0.5655025	0.001	-5.81	90.00	AVRG
Carbon tetrachloride	0.4178000	0.3836537	0.001	-8.17	90.00	AVRG
Benzene	1.2787800	1.2385629	0.001	-3.14	90.00	AVRG
1,2-Dichloroethane	0.2814200	0.2652662	0.001	-5.74	90.00	AVRG
Trichloroethene	0.4709900	0.4600520	0.001	-2.32	90.00	AVRG
1,2-Dichloropropane	0.2858700	0.2754432	0.001	-3.65	20.00	AVRG
Bromodichloromethane	0.3619600	0.3584561	0.001	-0.97	90.00	AVRG
cis-1,3-Dichloropropene	0.3746700	0.3486157	0.001	-6.95	90.00	AVRG
4-Methyl-2-pentanone	0.1285600	0.1078764	0.001	-16.09	90.00	AVRG
Toluene	1.1453800	1.0789028	0.001	-5.80	20.00	AVRG
trans-1,3-Dichloropropene	0.3444900	0.3285102	0.001	-4.64	90.00	AVRG
1,1,2-Trichloroethane	0.2257700	0.2026494	0.001	-10.24	90.00	AVRG
Tetrachloroethene	0.4544900	0.4190764	0.001	-7.79	90.00	AVRG
2-hexanone	0.0920500	0.0743828	0.001	-19.19	90.00	AVRG
Dibromochloromethane	0.3112800	0.2953125	0.001	-5.13	90.00	AVRG
1,2-Dibromoethane	0.2411800	0.2031366	0.001	-15.77	90.00	AVRG
Chlorobenzene	1.2868900	1.1971026	0.3	-6.98	90.00	AVRG
Ethylbenzene	0.7142800	0.6728471	0.001	-5.80	20.00	AVRG
m,p-Xylene	0.8857200	0.8394688	0.001	-5.22	90.00	AVRG
o-Xylene	0.8367100	0.7720836	0.001	-7.72	90.00	AVRG
Styrene	1.2126600	1.1159333	0.001	-7.98	90.00	AVRG
Bromoform	0.1568900	0.1536728	0.1	-2.05	90.00	AVRG
Isopropyl Benzene	2.1906600	2.0776151	0.001	-5.16	90.00	AVRG
1,1,2,2-Tetrachloroethane	0.4184100	0.3653760	0.3	-12.68	90.00	AVRG

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Instrument ID: 5973HP61 Calibration Date: 09/28/05 Time: 1658

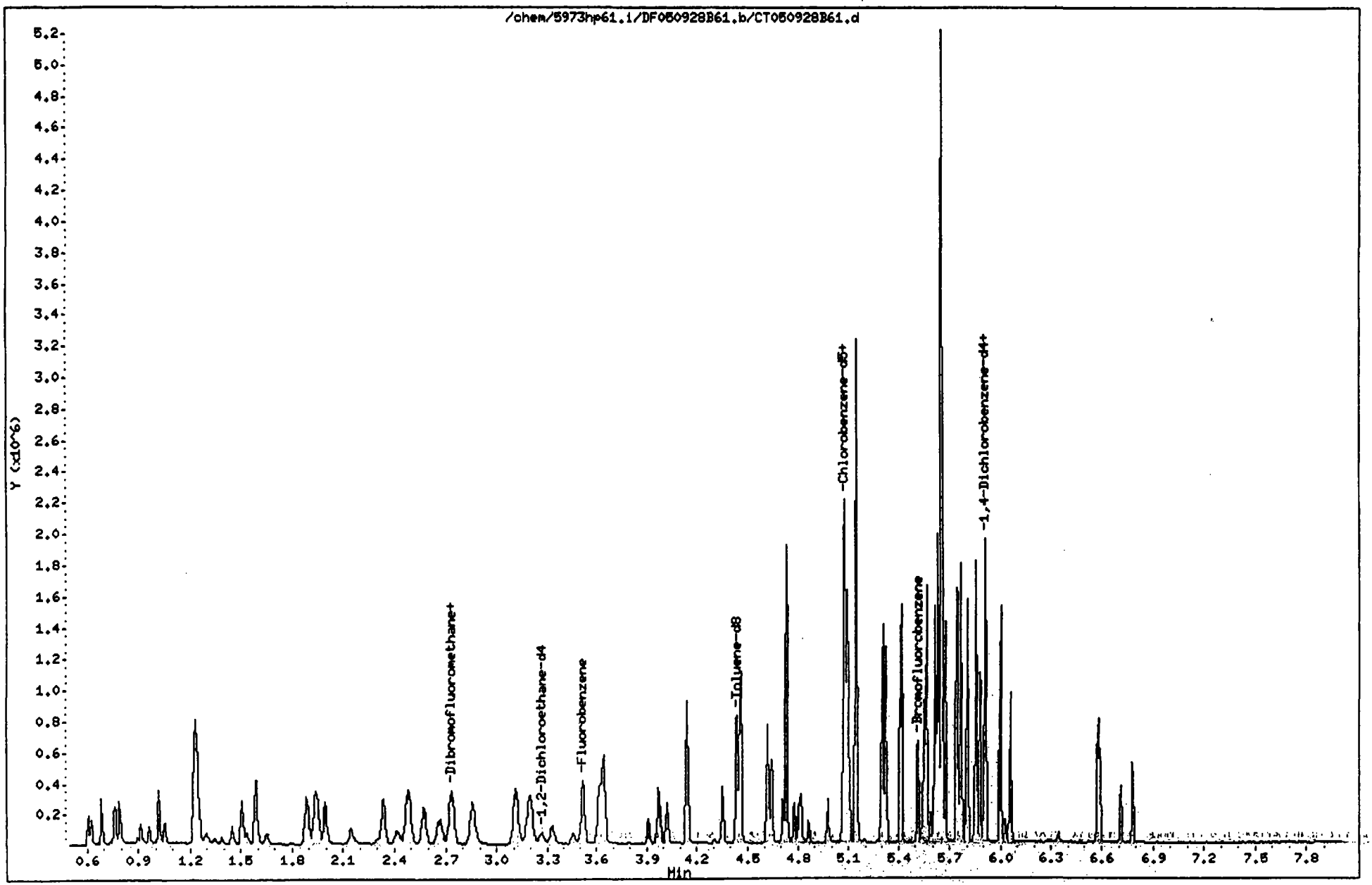
Lab File ID: CT050928B61 Init. Calib. Date(s): 09/27/05 09/27/05

Init. Calib. Times: 1812 2002

GC Column: RTX-VMS ID: 0.18 (mm)

COMPOUND	RRF OR AMOUNT	RRF5 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
1,3-Dichlorobenzene	2.1311200	1.8537051	0.001	-13.02	90.00	AVRG
1,4-Dichlorobenzene	2.0866000	1.8180424	0.001	-12.87	90.00	AVRG
1,2-Dichlorobenzene	1.7483700	1.4718503	0.001	-15.82	90.00	AVRG
1,2-Dibromo-3-Chloropropane	0.0698800	0.0577602	0.001	-17.34	90.00	AVRG
1,2,4-Trichlorobenzene	1.2693300	0.8472677	0.001	-33.25	90.00	AVRG
Xylene (total)	0.8367100	0.7720836	0.001	-7.72	90.00	AVRG
Cyclohexane	0.3636200	0.3806897	0.001	4.69	90.00	AVRG
Methylcyclohexane	0.4121200	0.4286069	0.001	4.00	90.00	AVRG
Dibromofluoromethane	0.2742200	0.2849369	0.001	3.91	90.00	AVRG
1,2-Dichloroethane-d4	0.1837700	0.1813457	0.001	-1.32	90.00	AVRG
Toluene-d8	1.2480600	1.2516651	0.001	0.29	90.00	AVRG
omofluorobenzene	0.8374000	0.8318966	0.001	-0.66	90.00	AVRG

Data File: /chem/5973hp61.i/DF050928B61.b/CT050928B61.d
Date : 28-SEP-2005 16:58
Client ID: VSTD005
Instrument: 5973hp61.i
Sample Info:
Purge Volume: 25.0
Operator: 2323
Column phase: RTX-VMS
Column diameter: 0.18



Data File: /chem/5973hp61.i/DF050928B61.b/CT050928B61.d
Report Date: 29-Sep-2005 00:48

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5973hp61.i/DF050928B61.b/CT050928B61.d
Lab Smp Id: VSTD005 Client Smp ID: VSTD005
Inj. Date : 28-SEP-2005 16:58
Operator : 2323 Inst ID: 5973hp61.i
Smp Info :
Misc Info :
Comment :
Method : /chem/5973hp61.i/DF050928B61.b/W8260-B-25MLv9.m
Meth Date : 29-Sep-2005 00:48 fertile Quant Type: ISTD
Cal Date : 27-SEP-2005 20:02 Cal File: CZ050927B61.d
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DC.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	volume of water
DF	1.00000	dilution factor

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	
*	1 Fluorobenzene	96	3.517	3.517	(1.000)	294195	125.000		
*	2 Chlorobenzene-d5	117	5.069	5.069	(1.000)	229865	125.000		
*	3 1,4-Dichlorobenzene-d4	152	5.901	5.901	(1.000)	124584	125.000		
$	4 Dibromofluoromethane	113	2.733	2.733	(0.777)	83827	125.000	130	
$	5 1,2-Dichloroethane-d4	65	3.267	3.267	(0.929)	53351	125.000	120	
$	6 Toluene-d8	98	4.437	4.437	(0.875)	287714	125.000	130	
$	7 Bromofluorobenzene	95	5.510	5.510	(0.934)	103641	125.000	120	
	8 Dichlorodifluoromethane	85	0.687	0.687	(0.195)	118341	125.000	130	
	9 Chloromethane	50	0.757	0.757	(0.215)	140958	125.000	100	(M)
	10 Vinyl Chloride	62	0.790	0.790	(0.225)	108113	125.000	130	
	11 Bromomethane	94	0.915	0.915	(0.260)	42537	125.000	97	
	12 Chloroethane	64	0.964	0.964	(0.274)	40960	125.000	100	
	13 Trichlorofluoromethane	101	1.019	1.019	(0.290)	139053	125.000	130	
	15 Acrolein	56	1.389	1.389	(0.395)	20923	1250.00	1200	
	16 1,1-Dichloroethene	96	1.231	1.231	(0.350)	89829	125.000	130	
	17 1,1,1-trichloro-2,2,2-trifluo	117	1.231	1.231	(0.350)	41966	125.000	120	

Data [illegible]chem/5973hp61.i/DF050928B61.b/CT050928B61.d
Report Date: 29-Sep-2005 00:48

C	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
[illegible]rifluo	85	1.247	1.247	(0.355)	37985	125.000	130
	43	1.536	1.536	(0.437)	51290	625.000	680
	142	1.296	1.296	(0.369)	52604	125.000	71
	76	1.242	1.242	(0.353)	274597	125.000	130
	39	1.454	1.454	(0.413)	32949	125.000	50
	41	1.797	1.797	(0.511)	3090	125.000	99
	43	1.606	1.606	(0.457)	14565	125.000	71
	84	1.508	1.508	(0.429)	87213	125.000	120
	53	1.993	1.993	(0.567)	157253	1250.00	990
[illegible]ene	96	1.590	1.590	(0.452)	105977	125.000	120
	73	1.655	1.655	(0.471)	46879	125.000	53
	63	1.949	1.949	(0.554)	150402	125.000	100
	43	2.145	2.145	(0.610)	124635	250.000	230
	45	1.884	1.884	(0.536)	245067	125.000	120
	77	2.418	2.418	(0.687)	55201	125.000	56
	96	2.336	2.336	(0.664)	103362	125.000	120
	53	1.933	1.933	(0.550)	123186	125.000	120
	43	2.880	2.880	(0.819)	47641	625.000	480
	54	3.180	3.180	(0.904)	127931	6250.00	4500
	41	3.201	3.201	(0.910)	162446	1250.00	1000
	128	2.494	2.494	(0.709)	34999	125.000	110
	83	2.570	2.570	(0.731)	184024	125.000	120
	97	2.733	2.733	(0.777)	166368	125.000	120
	84	2.472	2.472	(0.703)	111997	125.000	130
	43	3.463	3.463	(0.985)	36109	6250.00	4300
	75	2.858	2.858	(0.813)	136108	125.000	130
	117	2.668	2.668	(0.759)	112869	125.000	110
	78	3.114	3.114	(0.885)	364379	125.000	120
	62	3.332	3.332	(0.947)	78040	125.000	120
	130	3.642	3.642	(1.036)	135345	125.000	120
	83	3.621	3.621	(1.029)	126094	125.000	130
	63	3.969	3.969	(1.128)	81034	125.000	120
	174	3.909	3.909	(1.111)	37640	125.000	110
	69	4.138	4.138	(1.176)	171429	1250.00	1100
	88	4.138	4.138	(1.176)	12895	6250.00	4500
	83	4.023	4.023	(1.144)	105456	125.000	120
	63	4.258	4.258	(1.210)	3981	1250.00	450 (MH)
	75	4.350	4.350	(1.237)	102561	125.000	120
	43	4.639	4.639	(0.915)	123985	625.000	520
	92	4.459	4.459	(0.880)	248002	125.000	120
	75	4.649	4.649	(0.917)	75513	125.000	120
Ethyl-tert-butylether	69	4.731	4.731	(0.933)	395440	1250.00	1100
	97	4.709	4.709	(0.929)	46582	125.000	110
	76	4.818	4.818	(0.951)	72226	125.000	110
	164	4.622	4.622	(0.912)	96331	125.000	120
	43	4.976	4.976	(0.982)	85490	625.000	510
Bromochloromethane	129	4.780	4.780	(0.943)	67882	125.000	120

Data File: chem/5973hp61.i/DF050928B61.b/CT050928B61.d
Report Date: 29-Sep-2005 00:48

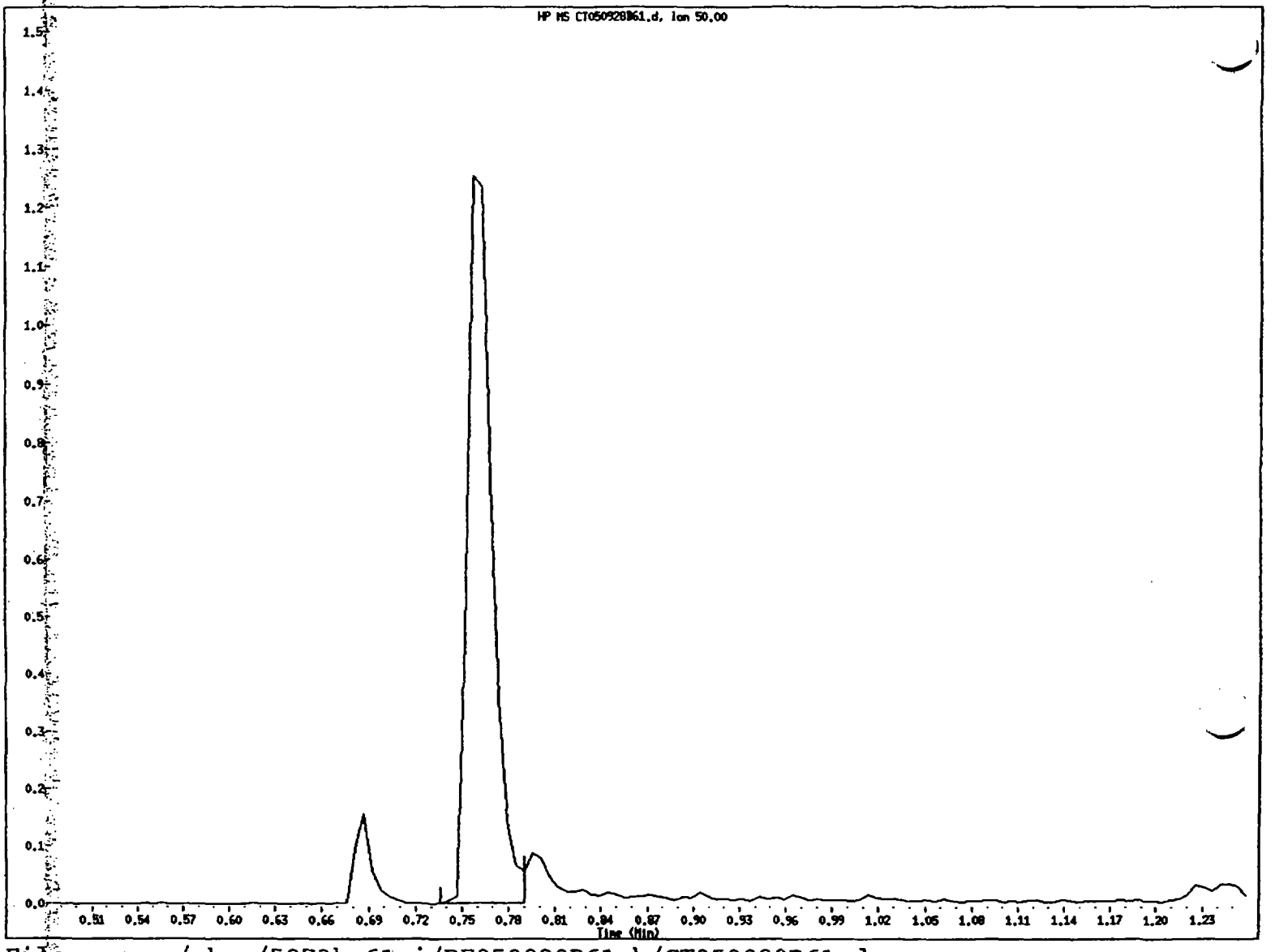
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
[illegible]	107	4.862	4.862	(0.959)	46694	125.000	110
[illegible]	112	5.074	5.074	(1.001)	275172	125.000	120
[illegible]ethene	131	5.101	5.101	(1.006)	82602	125.000	110
[illegible]	106	5.090	5.090	(1.004)	154664	125.000	120
[illegible]	106	5.145	5.145	(1.015)	385929	250.000	240
[illegible]	106	5.303	5.303	(1.046)	177475	125.000	120
[illegible]	104	5.319	5.319	(1.049)	256514	125.000	120
[illegible]	173	5.324	5.324	(1.050)	35324	125.000	120
[illegible]	105	5.417	5.417	(1.069)	477571	125.000	120
[illegible] Tetrachloroethane	83	5.586	5.586	(0.946)	45520	125.000	110 (M)
[illegible]	156	5.548	5.548	(1.095)	115794	125.000	110
[illegible]	110	5.635	5.635	(1.112)	11818	125.000	110
[illegible] butane	53	5.651	5.651	(1.115)	417914	5000.00	4700
[illegible]	91	5.559	5.559	(0.942)	576963	125.000	120
[illegible]	126	5.613	5.613	(0.951)	124483	125.000	110
[illegible]	105	5.629	5.629	(0.954)	416369	125.000	120
[illegible]	126	5.673	5.673	(0.961)	121151	125.000	110
[illegible]	119	5.738	5.738	(0.972)	386311	125.000	110
[illegible]	105	5.765	5.765	(0.977)	401175	125.000	110
[illegible]	105	5.803	5.803	(0.983)	511206	125.000	120
[illegible]	146	5.880	5.880	(0.996)	230942	125.000	110
[illegible]	119	5.852	5.852	(0.992)	431171	125.000	110
[illegible]	146	5.907	5.907	(1.001)	226499	125.000	110
[illegible]	91	5.999	5.999	(1.017)	376204	125.000	110
[illegible]	146	6.054	6.054	(1.026)	183369	125.000	110
[illegible] propane	75	6.342	6.342	(1.075)	7196	125.000	100
[illegible]	180	6.587	6.587	(1.116)	105556	125.000	83
[illegible]	225	6.576	6.576	(1.114)	67136	125.000	97
[illegible]	128	6.713	6.713	(1.137)	131249	125.000	82
[illegible]	180	6.778	6.778	(1.149)	77667	125.000	74
% [illegible]	96				209339	250.000	240
% [illegible]	106				563404	125.000	370

(2nd Flag Level)

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

2

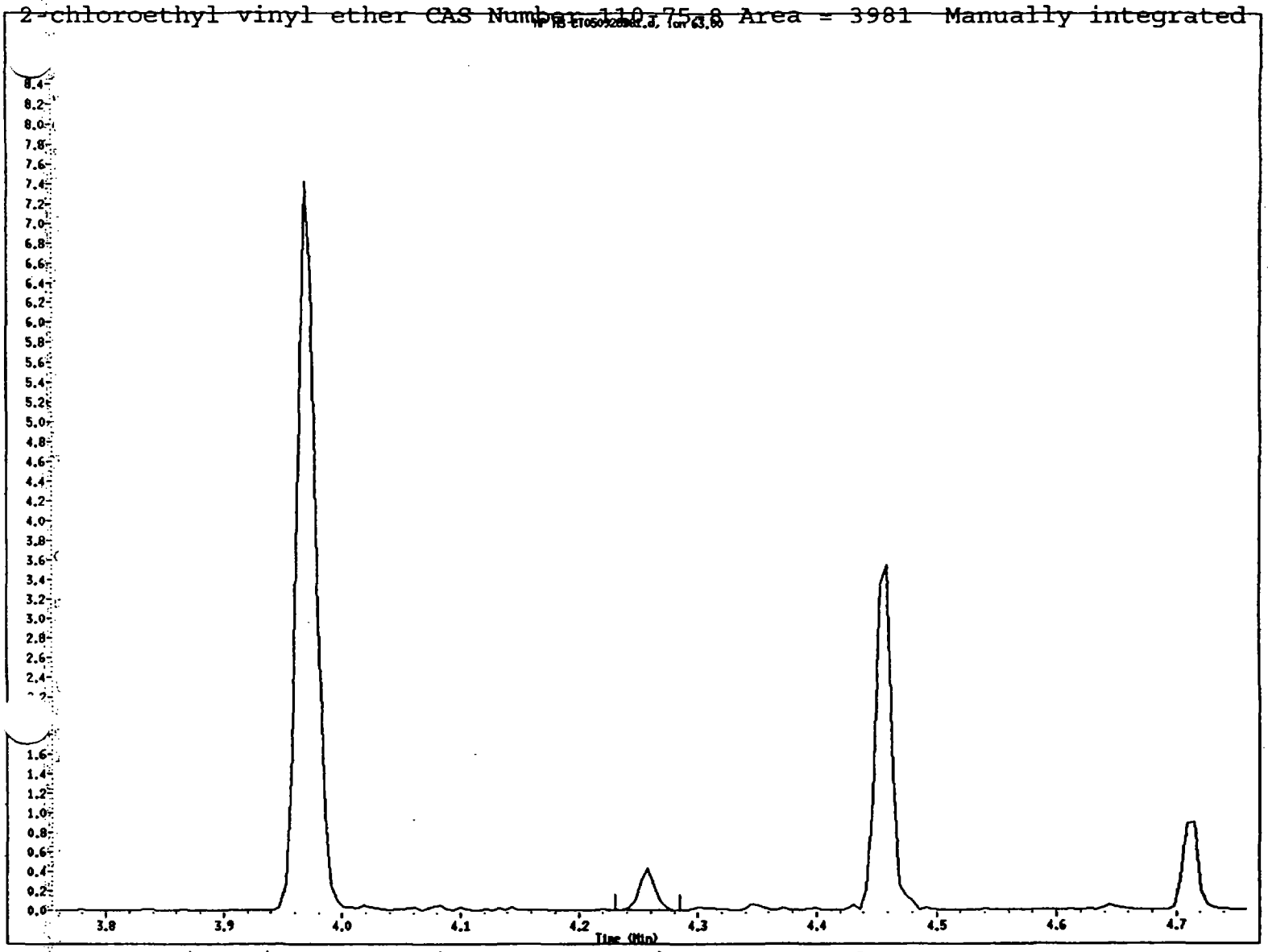
Chloromethane CAS Number 74-87-3 Area = 140958 Manually integrated



File name: /chem/5973hp61.i/DF050928B61.b/CT050928B61.d
Client ID: VSTD005
Instrument ID: 5973hp61.i
Injection Date and Time: 28-SEP-2005 16:58
Retention Time: 0.76
Operator ID: 2323

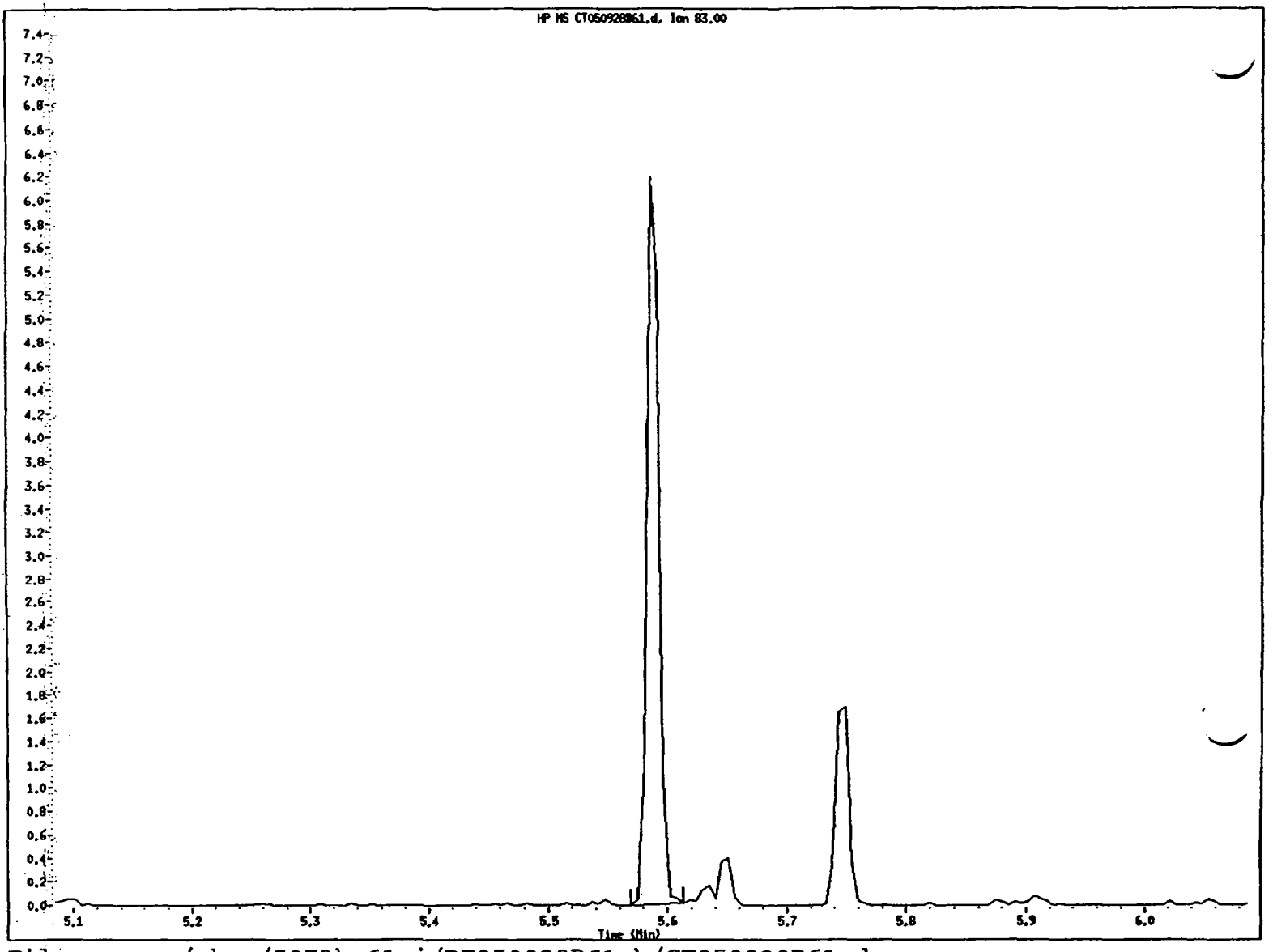
2-chloroethyl vinyl ether CAS Number 110-75-8 Area = 3981 User selected hit

2-chloroethyl vinyl ether CAS Number 110-75-8 Area = 3981 Manually integrated



File name: /chem/5973hp61.i/DF050928B61.b/CT050928B61.d
Client ID: VSTD005
Instrument ID: 5973hp61.i
Injection Date and Time: 28-SEP-2005 16:58
Retention Time: 4.26
Operator ID: 2323

1,1,2,2-Tetrachloroethane CAS Number 79-34-5 Area = 45520 Manually integrated



File name: /chem/5973hp61.i/DF050928B61.b/CT050928B61.d
Client ID: VSTD005
Instrument ID: 5973hp61.i
Injection Date and Time: 28-SEP-2005 16:58
Retention Time: 5.59
Operator ID: 2323

COMPUCHEM a division of Liberty Analytical Corp DATE 9/28/05 INITIAL TIME OF TUNE 1639 SHIFT/S(A)____(B)✓(C)____

GC/MS VOLATILE RUN LOG TIME TUNE EXPIRES 0439 LINKER /METHOD w8260B-2mL

COMPUCHEM LOGBOOK 11 I (4) 8 (5972hp61)

PREVENTIVE MAINTENANCE None

	CCAL	FILE NAME	MS DATA	pH	Vial	DATE	TIME	Client ID	SDG#	INJ. VOL.*	DF+	CHEMIST	COMMENTS(ETC.)/ DISPOSITION
1		BFB05928BL1		—	—	9/28/05	1634	BFB	—	2mL	—	ZZZ	LCS-SIO
2		CT05928BL1		—	—	/ /	1658	VSTDOOF	—	25mL	—		
3	/	81179BL1	CS	—	—	/ /	1728	VBLK28	VA-MC1		—		
4		81179RBL1		—	—	/ /	1750	" "			—		
5		81182BL1		—	—	/ /	1813	VEDLCS			—		
6		81185BL1		—	—	/ /	1835	VEDLCSD			—		
7		CB05928BL1		—	—	/ /	1857	VBLKAA	—		—		
8		782508DZBL1	MW	1	2	/ /	1923	MW-23	7825	5mL	5		HARD O.K.? ND (conf)
9	/	C15	DW	1	2	/ /	1946	MW-9		5mL	5000		
10		C16	SB DW	1	2	/ /	2008	MW-8S		600uL	41,666		(600uL)
11		C18		1	2	/ /	2031	MW-4	7825	300uL	83.333		
12		784504BL1		1	1	/ /	2053	TRIP BLNK	7845	25mL	—		
13		S01		1	1	/ /	2116	EFFLUENT			—		
14		C03		1	1	/ /	2139	GAC			—		
15		S02		1	1	/ /	2205	INFLUENT		600uL	250		
16		CC05928BL1	CS	—	—	/ /		VBLKAB	—	25mL	—		
17		782906BL1		1	1	/ /	2250	ACSCWPWT226	7829	25mL	—		
18		903		1	1	/ /	2313	B26			—		
19		81068BL1	SB SF	1	2	/ /	2335	B26MS			/		
20		81069BL1	SB SF	1	3	/ /	2358	B26MSD			/		
21		CD05928BL1		—	—	9/29/05	0020	VBLKAC	—	25mL	—		
22		782904BL1		1	1	/ /	0043	ACSCWPWT226	7829		—		
23		903		1	1	/ /	0107	B26LL			—		
						/ /	0130	B26LL			—		

SUPERVISOR'S SIGNATURE: DATE: 9-29-05

*On-column simple dilution
+Not applicable to soil matrix

Calibration Curve Code: Form: 05928

The presence of the Chemist's employee ID number, or signature, on this run log attests that [illegible] with the Compuchem SOP has occurred. Any SOP deviations require discussion with the responsible chemist together with the chemist's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

1099

25.05.jad

COMPUCHEM a division of Liberty Analytical Corp DATE 9/29/2005 INITIAL TIME OF TUNE 1634 SHIFT/S(A)____(B) ✓ (C)____

GC/MS VOLATILE RUN LOG TIME TUNE EXPIRES 6434 LINKER /METHOD W8260-3-2mL

COMPUCHEM LOGBOOK 11 I (4) 8 (5972hp61)

PREVENTIVE MAINTENANCE None

	CTBD	FILE NAME	RTBD	pH	Vial	DATE	TIME	Client ID	SDG#	INJ. VOL.*	DF+	CHEMIST	COMMENTS(ETC.)/ DISPOSITION
1		77930302B61	/	1	2	9/29/05	0954	EW-4	7793	2.5mL	10	2323	LCD = SCn/Forms
2		304	/	1	2	/ /	0220	LEACHATE POND 2		2.5mL	10		Forms
3		305	/	1	2	/ /	0246	" " 3		2.5mL	10		↓
4		301	DW	1	2	/ /	0309	PZ-10		150ml	166.66		300ml
5		302	DW	1	2	/ /	0331	PZ-13		20ml	1250		150ml
6		78251503B61	/	1	2	/ /	0354	MW-9	7825	10ml	2500		
7						/ /							
8						/ /							
9						/ /							
10						/ /							
11						/ /							
12						/ /							
13						/ /							
14						/ /							
15						/ /							
16						/ /							
17						/ /							
18						/ /							
19						/ /							
20						/ /							
21						/ /							
22						/ /							
23						/ /							
24						/ /							

SUPERVISOR [illegible] [illegible] 9/29

Time ID [illegible] 1354

[illegible] 0258

*On column sample aliquot
-Not applicable to soil matrix

The presence of the Chemist's employee ID number, or signature, on this run log attests that [illegible] occurred. Any SOP deviations require [illegible] with the chemist's initials and the initials [illegible] presentative, signifying approval of the deviation.

1100

234

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Instrument ID: 5973HP61 Calibration Date: 09/29/05 Time: 1429

Lab File ID: CS050929A61 Init. Calib. Date(s): 09/27/05 09/27/05

Init. Calib. Times: 1812 2002

GC Column: RTX-VMS ID: 0.18 (mm)

COMPOUND	RRF OR AMOUNT	RRF5 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Dichlorodifluoromethane	0.3885000	0.3992390	0.001	2.76	90.00	AVRG
Chloromethane	0.5866200	0.8162231	0.1	39.14	90.00	AVRG
Vinyl Chloride	0.3515300	0.3715966	0.001	5.71	20.00	AVRG
Bromomethane	0.1862300	0.0550353	0.001	-70.45	90.00	AVRG
Chloroethane	0.1678300	0.1702451	0.001	1.44	90.00	AVRG
Trichlorofluoromethane	0.4509500	0.4529673	0.001	0.45	90.00	AVRG
1,1-Dichloroethene	0.2973800	0.2847482	0.001	-4.25	20.00	AVRG
Carbon disulfide	0.9068500	0.8848471	0.001	-2.43	90.00	AVRG
1,1,2-trichloro-1,2,2-triflu	0.1217000	0.1162672	0.001	-4.46	90.00	AVRG
Acetone	0.0318400	0.0294545	0.001	-7.49	90.00	AVRG
Methyl acetate	0.0874800	0.0610095	0.001	-30.26	90.00	AVRG
Methylene Chloride	0.3000900	0.3314128	0.001	10.44	90.00	AVRG
trans-1,2-Dichloroethene	0.3681000	0.3496541	0.001	-5.01	90.00	AVRG
thyl-tert-butyl ether	0.3730600	0.2408089	0.001	-35.45	90.00	AVRG
1-Dichloroethane	0.6312400	0.5186243	0.1	-17.84	90.00	AVRG
cis-1,2-Dichloroethene	0.3714100	0.3391264	0.001	-8.69	90.00	AVRG
2-butanone	0.0421300	0.0318718	0.001	-24.35	90.00	AVRG
Chloroform	0.6499300	0.5998542	0.001	-7.70	20.00	AVRG
1,1,1-Trichloroethane	0.6004100	0.5529204	0.001	-7.91	90.00	AVRG
Carbon Tetrachloride	0.4178000	0.3435341	0.001	-17.78	90.00	AVRG
Benzene	1.2787800	1.1750383	0.001	-8.11	90.00	AVRG
1,2-Dichloroethane	0.2814200	0.2405273	0.001	-14.53	90.00	AVRG
Trichloroethene	0.4709900	0.4357686	0.001	-7.48	90.00	AVRG
1,2-Dichloropropane	0.2858700	0.2599867	0.001	-9.05	20.00	AVRG
Bromodichloromethane	0.3619600	0.3246232	0.001	-10.32	90.00	AVRG
cis-1,3-Dichloropropene	0.3746700	0.3207936	0.001	-14.38	90.00	AVRG
4-Methyl-2-pentanone	0.1285600	0.1039313	0.001	-19.16	90.00	AVRG
Toluene	1.1453800	1.0820221	0.001	-5.53	20.00	AVRG
trans-1,3-Dichloropropene	0.3444900	0.3065413	0.001	-11.02	90.00	AVRG
1,1,2-Trichloroethane	0.2257700	0.1946588	0.001	-13.78	90.00	AVRG
Tetrachloroethene	0.4544900	0.4440403	0.001	-2.30	90.00	AVRG
2-hexanone	0.0920500	0.0695028	0.001	-24.49	90.00	AVRG
Dibromochloromethane	0.3112800	0.2882523	0.001	-7.40	90.00	AVRG
1,2-Dibromoethane	0.2411800	0.1890474	0.001	-21.62	90.00	AVRG
Chlorobenzene	1.2868900	1.1830673	0.3	-8.07	90.00	AVRG
Ethylbenzene	0.7142800	0.6598441	0.001	-7.62	20.00	AVRG
m,p-Xylene	0.8857200	0.8381078	0.001	-5.38	90.00	AVRG
o-Xylene	0.8367100	0.7759535	0.001	-7.26	90.00	AVRG
Styrene	1.2126600	1.1334229	0.001	-6.53	90.00	AVRG
Bromoform	0.1568900	0.1519834	0.1	-3.13	90.00	AVRG
Isopropyl Benzene	2.1906600	2.0814958	0.001	-4.98	90.00	AVRG
,2,2-Tetrachloroethane	0.4184100	0.3507618	0.3	-16.17	90.00	AVRG

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Instrument ID: 5973HP61 Calibration Date: 09/29/05 Time: 1429

Lab File ID: CS050929A61 Init. Calib. Date(s): 09/27/05 09/27/05

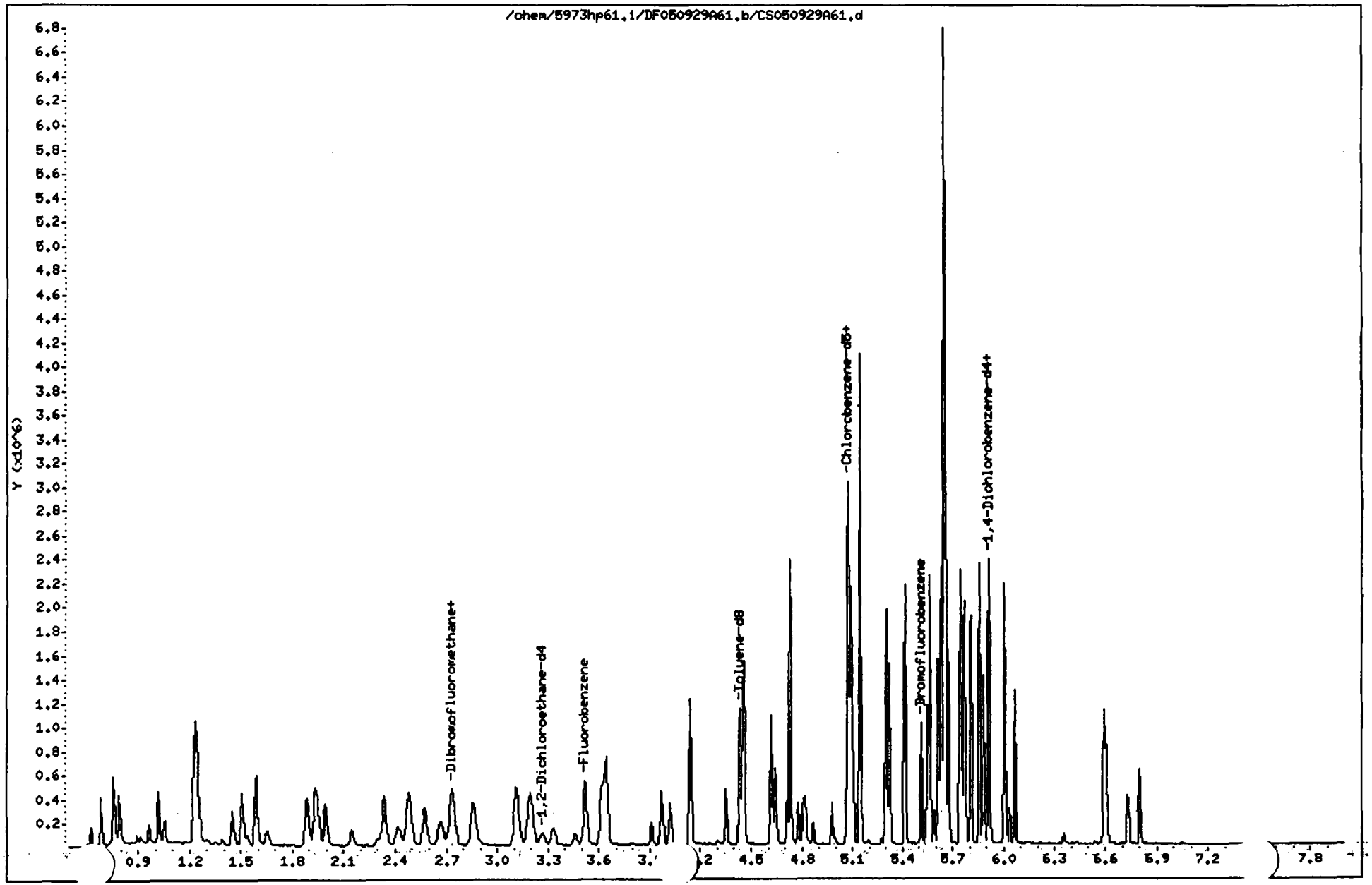
Init. Calib. Times: 1812 2002

GC Column: RTX-VMS ID: 0.18 (mm)

COMPOUND	RRF OR AMOUNT	RRF5 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
1,3-Dichlorobenzene	2.1311200	1.8947586	0.001	-11.09	90.00	AVRG
1,4-Dichlorobenzene	2.0866000	1.8050750	0.001	-13.49	90.00	AVRG
1,2-Dichlorobenzene	1.7483700	1.5012062	0.001	-14.14	90.00	AVRG
1,2-Dibromo-3-Chloropropane	0.0698800	0.0552330	0.001	-20.96	90.00	AVRG
1,2,4-Trichlorobenzene	1.2693300	0.8725892	0.001	-31.26	90.00	AVRG
Xylene (total)	0.8367100	0.7759535	0.001	-7.26	90.00	AVRG
Cyclohexane	0.3636200	0.3611380	0.001	-0.68	90.00	AVRG
Methylcyclohexane	0.4121200	0.4231531	0.001	2.68	90.00	AVRG
Dibromofluoromethane	0.2742200	0.2649503	0.001	-3.38	90.00	AVRG
1,2-Dichloroethane-d4	0.1837700	0.1644414	0.001	-10.52	90.00	AVRG
Toluene-d8	1.2480600	1.2696952	0.001	1.73	90.00	AVRG
Bromofluorobenzene	0.8374000	0.8545738	0.001	2.05	90.00	AVRG

Data File: /chem/5973hp61.i/DF050929A61.b/CS050929A61.d
Date : 29-SEP-2005 14:29
Client ID: VSTD005
Sample Info: VSTD005:2323
Purge Volume: 25.0
Column phase: RTX-VMS

Instrument: 5973hp61.i
Operator: 2323
Column diameter: 0.18



Data File: /chem/5973hp61.i/DF050929A61.b/CS050929A61.d
Report Date: 29-Sep-2005 07:45

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5973hp61.i/DF050929A61.b/CS050929A61.d
Lab Smp Id: VSTD005 Client Smp ID: VSTD005
Inj Date : 29-SEP-2005 14:29
Operator : 2323 Inst ID: 5973hp61.i
Smp Info : VSTD005:2323
Misc Info : 61
Comment :
Method : /chem/5973hp61.i/DF050929A61.b/W8260-B-25MLv9.m
Meth Date : 29-Sep-2005 06:12 harris Quant Type: ISTD
Cal Date : 27-SEP-2005 20:02 Cal File: CZ050927B61.d
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DC.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	volume of water
DF	1.00000	dilution factor

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
*	1 Fluorobenzene	96	3.517	3.517	(1.000)	404740	125.000	
*	2 Chlorobenzene-d5	117	5.069	5.069	(1.000)	298322	125.000	
*	3 1,4-Dichlorobenzene-d4	152	5.912	5.912	(1.000)	155034	125.000	
$	4 Dibromofluoromethane	113	2.739	2.739	(0.779)	107236	125.000	120
$	5 1,2-Dichloroethane-d4	65	3.272	3.272	(0.930)	66556	125.000	110
$	6 Toluene-d8	98	4.437	4.437	(0.875)	378778	125.000	130
$	7 Bromofluorobenzene	95	5.515	5.515	(0.933)	132488	125.000	130
	8 Dichlorodifluoromethane	85	0.687	0.687	(0.195)	161588	125.000	130
	9 Chloromethane	50	0.757	0.757	(0.215)	330358	125.000	170(M)
	10 Vinyl Chloride	62	0.790	0.790	(0.225)	150400	125.000	130
	11 Bromomethane	94	0.915	0.915	(0.260)	22275	125.000	37
	12 Chloroethane	64	0.964	0.964	(0.274)	68905	125.000	130
	13 Trichlorofluoromethane	101	1.019	1.019	(0.290)	183334	125.000	130
	15 Acrolein	56	1.389	1.389	(0.395)	22433	1250.00	910
	16 1,1-Dichloroethene	96	1.231	1.231	(0.350)	115249	125.000	120
	17 1,1,1-trichloro-2,2,2-trifluo	117	1.231	1.231	(0.350)	51534	125.000	110

9.29.6

Data ... /chem/5973hp61.i/DF050929A61.b/CS050929A61.d
Report Date: 29-Sep-2005 07:45

	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
...trifluo	85	1.247	1.247	(0.355)	47058	125.000	120
	43	1.541	1.541	(0.438)	59607	625.000	580
	142	1.307	1.307	(0.372)	25377	125.000	25
	76	1.242	1.242	(0.353)	358133	125.000	120
	39	1.454	1.454	(0.413)	82991	125.000	91
	41	1.797	1.797	(0.511)	5329	125.000	120 (M)
	43	1.607	1.607	(0.457)	24693	125.000	87
	84	1.509	1.509	(0.429)	134136	125.000	140
	53	1.993	1.993	(0.567)	199346	1250.00	910
	96	1.590	1.590	(0.452)	141519	125.000	120
	73	1.656	1.656	(0.471)	97465	125.000	81
	63	1.949	1.949	(0.554)	209908	125.000	100
	43	2.145	2.145	(0.610)	155450	250.000	210
	45	1.890	1.890	(0.537)	309159	125.000	110
	77	2.418	2.418	(0.687)	101455	125.000	75
	96	2.336	2.336	(0.664)	137258	125.000	110
	53	1.933	1.933	(0.550)	170675	125.000	120
	43	2.886	2.886	(0.820)	64499	625.000	470
	54	3.180	3.180	(0.904)	185776	6250.00	4800
	41	3.201	3.201	(0.910)	217182	1250.00	1000
	128	2.494	2.494	(0.709)	36567	125.000	86
	83	2.575	2.575	(0.732)	242785	125.000	120
	97	2.739	2.739	(0.779)	223789	125.000	120
	84	2.477	2.477	(0.704)	146167	125.000	120
	43	3.463	3.463	(0.985)	49883	6250.00	4300
	75	2.859	2.859	(0.813)	179416	125.000	120
...de	117	2.663	2.663	(0.757)	139042	125.000	100
	78	3.120	3.120	(0.887)	475585	125.000	110
	62	3.332	3.332	(0.947)	97351	125.000	110
	130	3.642	3.642	(1.036)	176373	125.000	120
	83	3.621	3.621	(1.029)	171267	125.000	130
	63	3.969	3.969	(1.128)	105227	125.000	110
	174	3.909	3.909	(1.111)	45599	125.000	98
	69	4.143	4.143	(1.178)	223984	1250.00	1000
	88	4.138	4.138	(1.176)	16712	6250.00	4200
	83	4.023	4.023	(1.144)	131388	125.000	110
	63	4.258	4.258	(1.210)	3144	1250.00	260 (MH)
	75	4.350	4.350	(1.237)	129838	125.000	110
	43	4.639	4.639	(0.915)	155025	625.000	510
	92	4.459	4.459	(0.880)	322791	125.000	120
	75	4.649	4.649	(0.917)	91448	125.000	110
	69	4.731	4.731	(0.933)	518698	1250.00	1100
	97	4.715	4.715	(0.930)	58071	125.000	110
	76	4.818	4.818	(0.951)	89370	125.000	100
	164	4.622	4.622	(0.912)	132467	125.000	120
	43	4.976	4.976	(0.982)	103671	625.000	470
	129	4.780	4.780	(0.943)	85992	125.000	120

9.29.E

Data File: /chem/5973hp61.i/DF050929A61.b/CS050929A61.d
Report Date: 29-Sep-2005 07:45

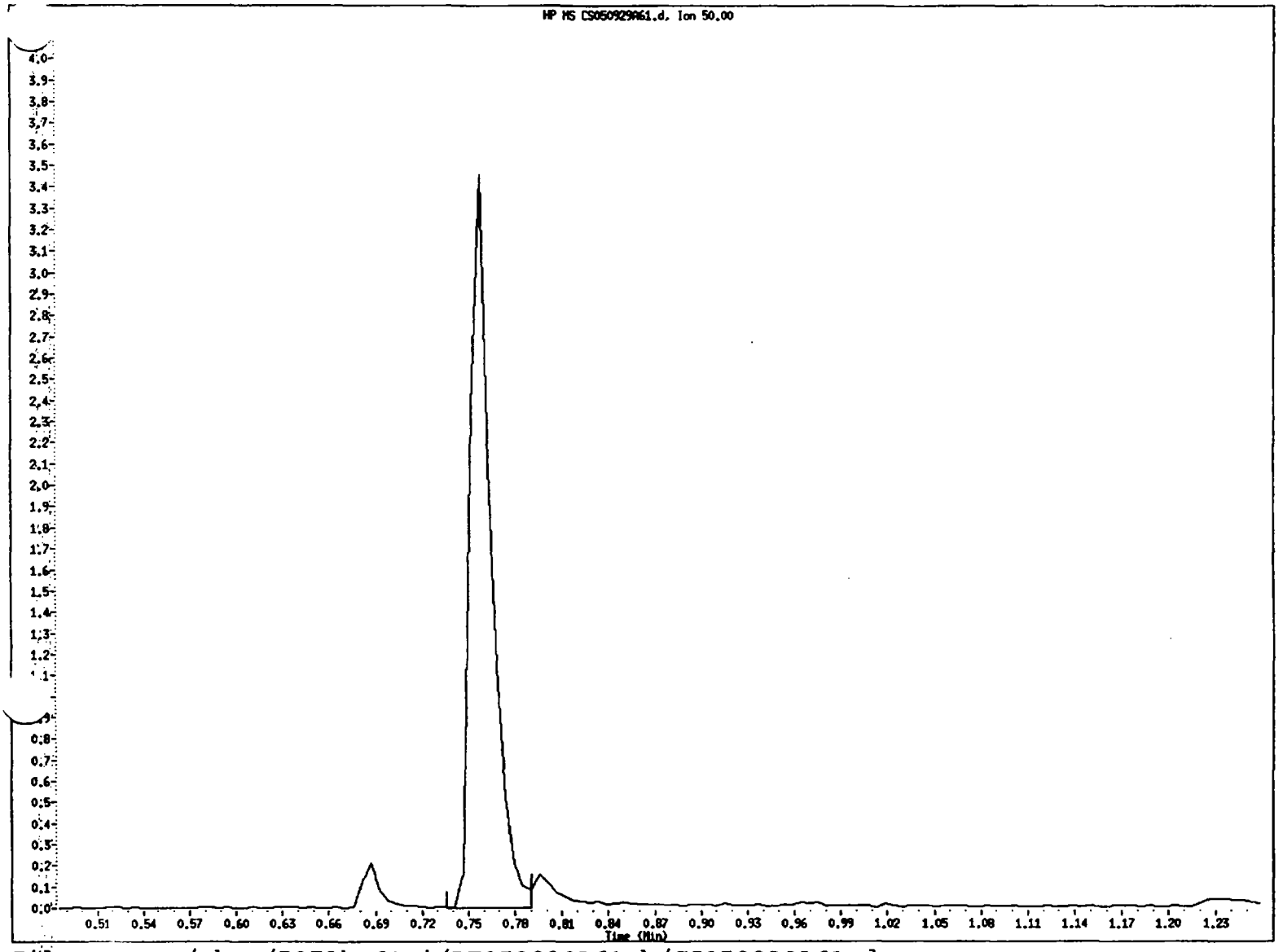
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
71	1,2-Dibromoethane	107	4.867	4.867	(0.960)	56397	125.000	98
72	Chlorobenzene	112	5.074	5.074	(1.001)	352935	125.000	110
74	1,1,1,2-Tetrachloroethane	131	5.101	5.101	(1.006)	110128	125.000	120
75	Ethylbenzene	106	5.090	5.090	(1.004)	196846	125.000	120
76	m,p-Xylene	106	5.145	5.145	(1.015)	500052	250.000	240
77	o-Xylene	106	5.303	5.303	(1.046)	231484	125.000	120
78	Styrene	104	5.324	5.324	(1.050)	338125	125.000	120
79	Bromoform	173	5.330	5.330	(1.052)	45340	125.000	120
81	Isopropyl Benzene	105	5.417	5.417	(1.069)	620956	125.000	120
82	1,1,2,2-Tetrachloroethane	83	5.591	5.591	(0.946)	54380	125.000	100 (M)
84	Bromobenzene	156	5.548	5.548	(1.095)	144010	125.000	110
83	1,2,3-Trichloropropane	110	5.635	5.635	(1.112)	14175	125.000	100
85	trans-1,4-dichloro-2-butene	53	5.651	5.651	(1.115)	529382	5000.00	4600
86	n-Propyl Benzene	91	5.564	5.564	(0.941)	741814	125.000	120
87	2-Chlorotoluene	126	5.618	5.618	(0.950)	159516	125.000	110
89	1,3,5-Trimethyl Benzene	105	5.635	5.635	(0.953)	542506	125.000	120
88	4-Chlorotoluene	126	5.678	5.678	(0.960)	164211	125.000	120
91	tert-Butyl Benzene	119	5.744	5.744	(0.971)	515043	125.000	120
92	1,2,4-Trimethyl Benzene	105	5.771	5.771	(0.976)	526396	125.000	120
93	sec-Butyl Benzene	105	5.809	5.809	(0.982)	672103	125.000	120
94	1,3-Dichlorobenzene	146	5.885	5.885	(0.995)	293752	125.000	110
95	p-Isopropyl Toluene	119	5.858	5.858	(0.991)	571832	125.000	120
96	1,4-Dichlorobenzene	146	5.918	5.918	(1.001)	279848	125.000	110
99	n-Butyl Benzene	91	6.005	6.005	(1.016)	518867	125.000	120
98	1,2-Dichlorobenzene	146	6.065	6.065	(1.026)	232738	125.000	110
101	1,2-Dibromo-3-Chloropropane	75	6.353	6.353	(1.075)	8563	125.000	99
102	1,2,4-Trichlorobenzene	180	6.604	6.604	(1.117)	135281	125.000	86
103	Hexachlorobutadiene	225	6.593	6.593	(1.115)	100238	125.000	120
104	Naphthalene	128	6.734	6.734	(1.139)	160943	125.000	81
105	1,2,3-Trichlorobenzene	180	6.800	6.800	(1.150)	94835	125.000	73
M 106	1,2-Dichloroethene (total)	96				278777	250.000	230
M 107	Xylene (total)	106				731536	125.000	370

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

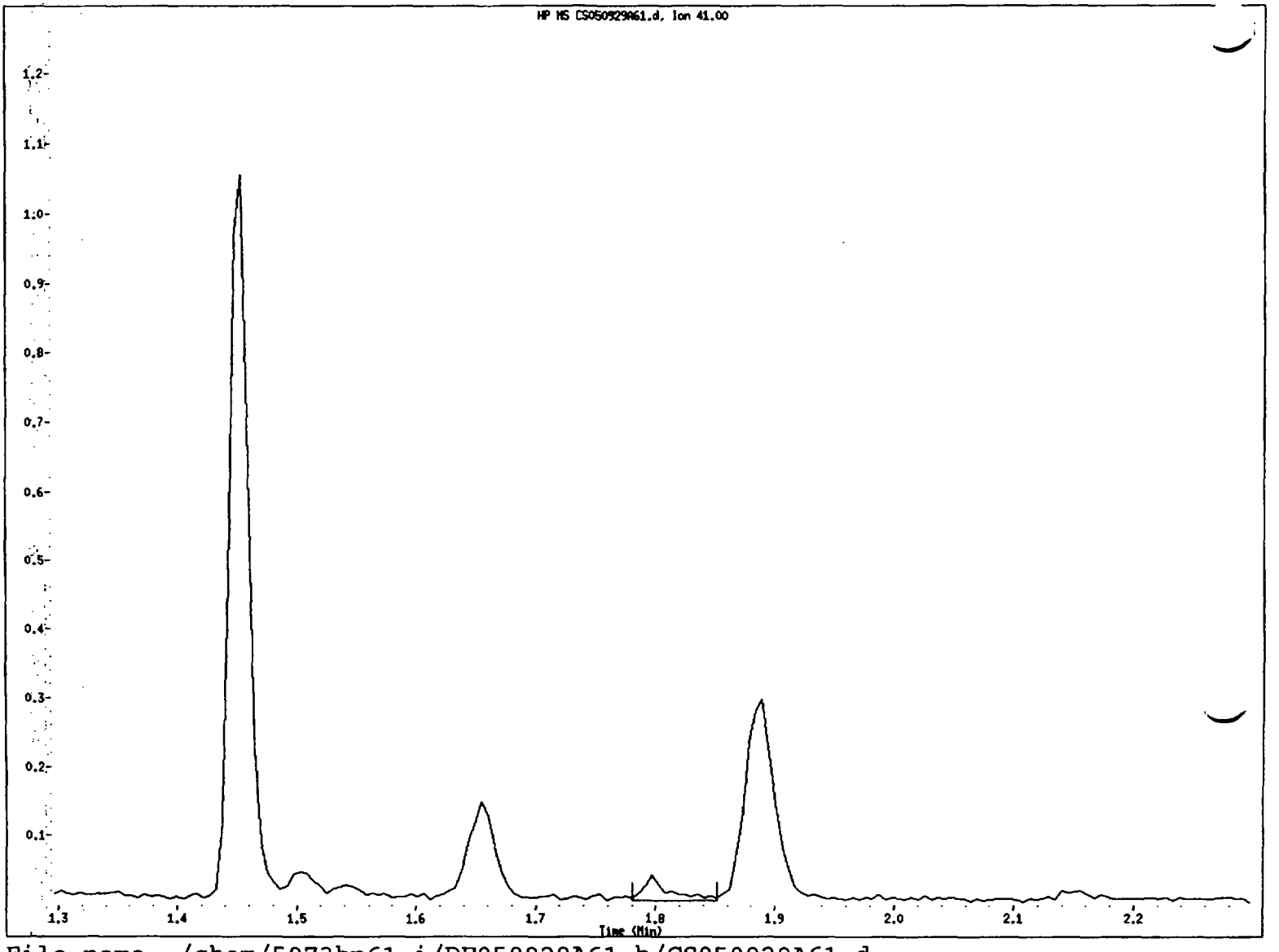
mw 9.29.6

Chloromethane CAS Number 74-87-3 Area = 330358 Manually integrated



File name: /chem/5973hp61.i/DF050929A61.b/CS050929A61.d
Client ID: VSTD005
Instrument ID: 5973hp61.i
Injection Date and Time: 29-SEP-2005 14:29
Retention Time: 0.76
Operator ID: 2323

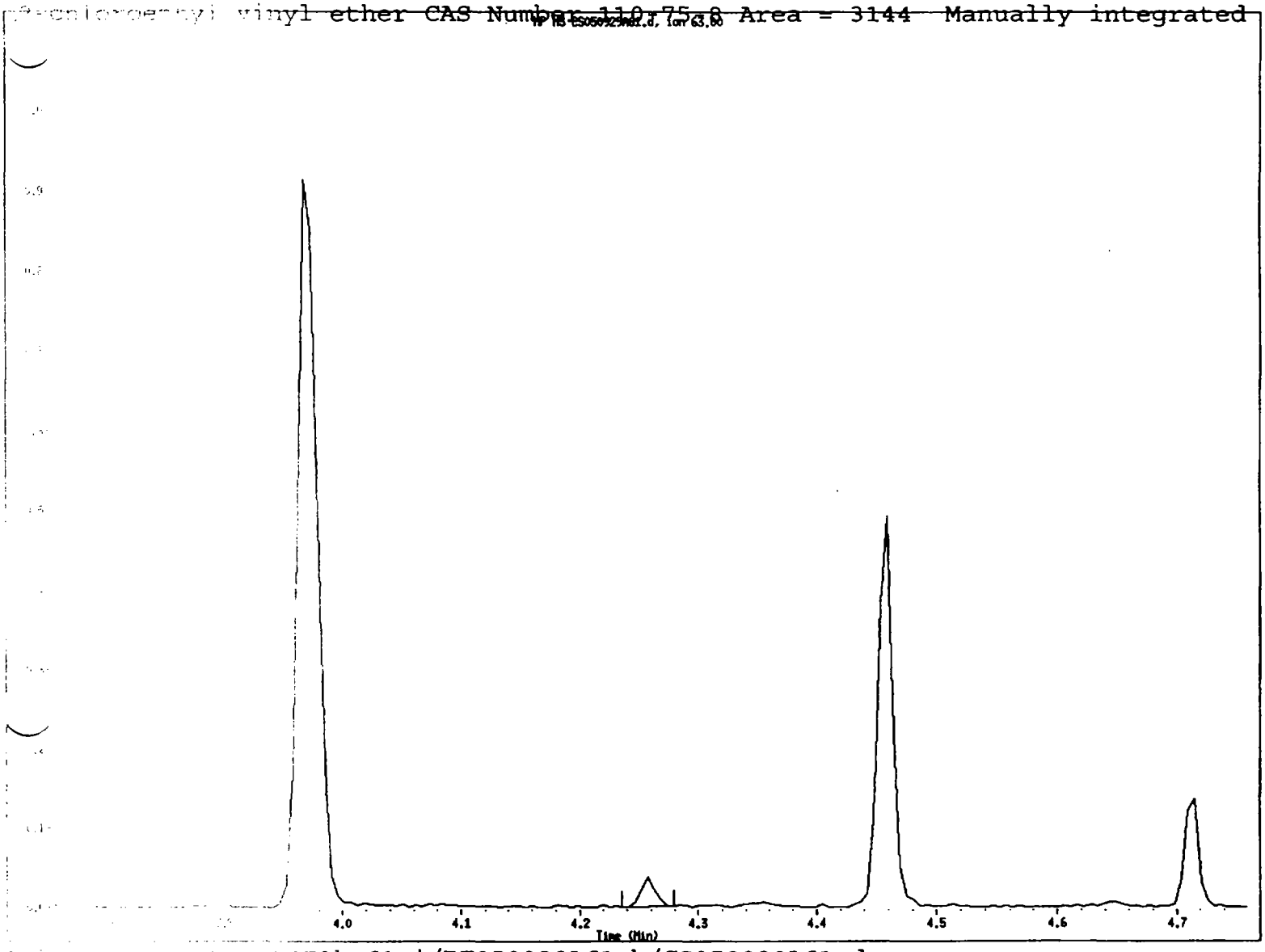
Acetonitrile CAS Number 75-05-8 Area = 5329 Manually integrated



File name: /chem/5973hp61.i/DF050929A61.b/CS050929A61.d
Client ID: VSTD005
Instrument ID: 5973hp61.i
Injection Date and Time: 29-SEP-2005 14:29
Retention Time: 1.80
Operator ID: 2323

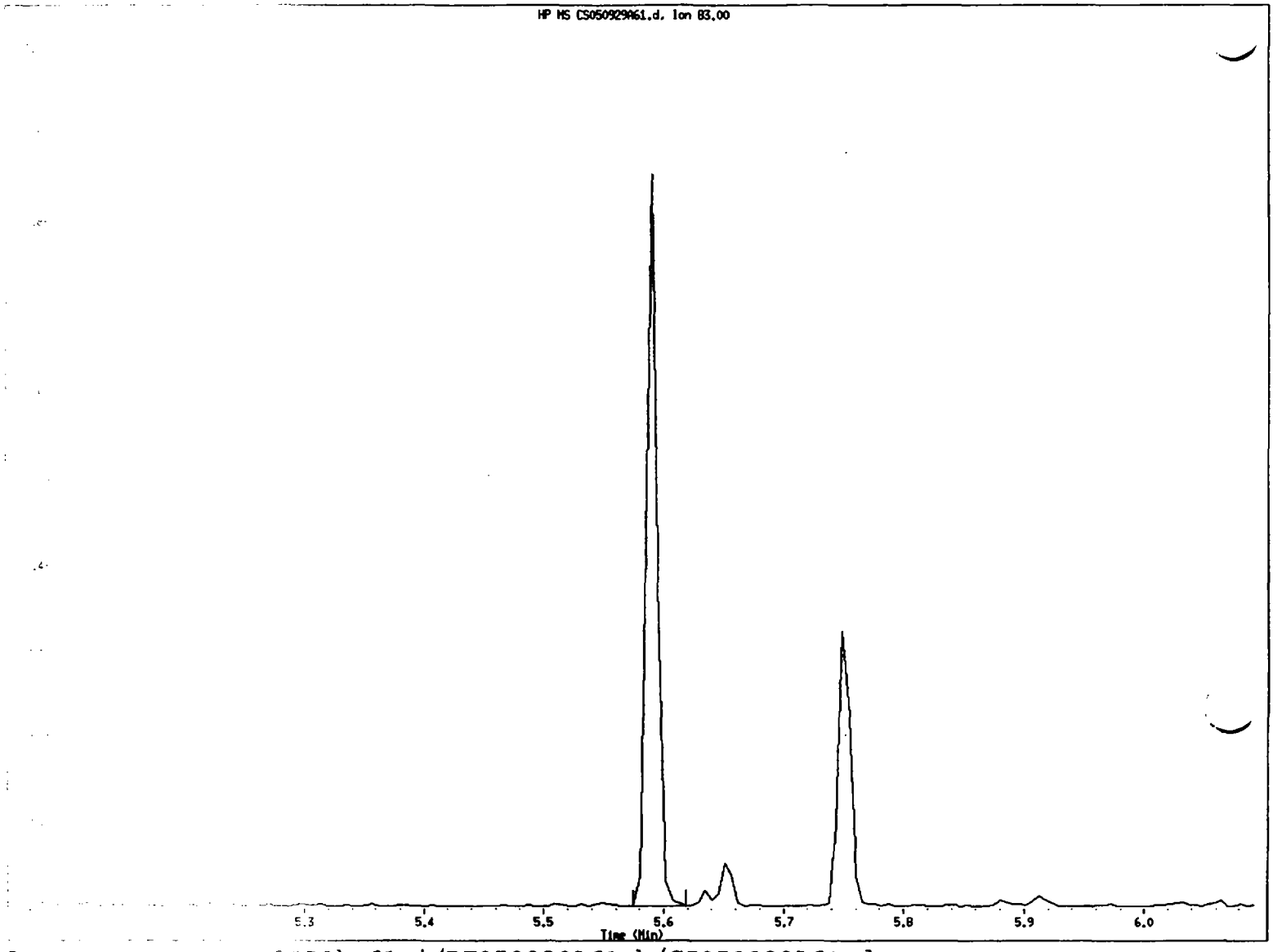
2-chloroethyl vinyl ether CAS Number 110-75-8 Area = 3144 User selected hit

2-chloroethyl vinyl ether CAS Number 110-75-8 Area = 3144 Manually integrated



Data File: C:\hpchem\5973hp61.i\DF050929A61.b\CS050929A61.d
Client ID: CS050929A61
Instrument ID: 5973hp61.i
Injection Date and Time: 29-SEP-2005 14:29
Retention Time: 4.26
Operator ID: 2323

1,1,2,2-Tetrachloroethane CAS Number 79-34-5 Area = 54380 Manually integrated



File Name: [illegible]5973hp61.i/DF050929A61.b/CS050929A61.d
Client ID: [illegible]
Instrument ID: [illegible]73hp61.i
Injection Date and Time: 29-SEP-2005 14:29
Retention Time: [illegible].59
Operator ID: [illegible]

COMPUCHEM a division of Liberty Analytical Corp DATE 9/29/2005 INITIAL TIME OF TUNE 1413 SHIFT/S(A) ✓ (B)____ (C)____

GC/MS VOLATILE RUN LOG TIME TUNE EXPIRES 0213 LINKER /METHOD W82603_2002

COMPUCHEM LOGBOOK 11 I (4) 8 (5972hp61)

PREVENTIVE MAINTENANCE None

	CTBD	FILE NAME	RTBD	pH	Vial	DATE	TIME	Client ID	SDG#	INJ. VOL.*	DF+	CHEMIST	COMMENTS(ETC.)/ DISPOSITION
1		BF050929AG1	/	—	—	9/29/2005	1413	BF3	—	2L	—	2723	LCD=SID
2		CS050929AG1	/	—	—	/ /	1429	VSTDOUT	—	20mL	—		
3	/	81062AG1	G	—	—	/ /	1458	VBLKDJ	Varies		—		
4		81062RAG1	/	—	—	/ /	1520	/ /			—		
5		81065AG1	/	—	—	/ /	1543	VDJLCS			—		
6		CB050929AG1	/	—	—	/ /	1603	VEBLKAN	—	20mL	—		
7		782508D3AG1	/	1	3	/ /	1624	MW-2S	7825	6mL	4.166		
8		782516D3AG1	/	1	3	/ /	1646	MW-8S		700ml	35.71		
9		CC050929AG1	/	—	—	/ /	1709	VEBLKAB	—	20mL	—		
10		81068RAG1	/	1	4	/ /	1731	ACSGWPWB26MS	7829	20mL	—		
11		81069RAG1	/	1	5	/ /	1754	" " MSD			—		
12		CD050929AG1	/	—	—	/ /	1816	VEBLKAC	—	20mL	—		
13		779307RAG1	/	1	2	/ /	1839	TB09212005	7793	20mL	—		Iodo confined
14		779306RAG1	/	1	2	/ /	1901	LEACHATBOONDI			—		
15		779301D3AG1	/	1	3	/ /	1923	PZ-10		300ml	83.33		
16		779302D3AG1	/	1	3	/ /	1946	PZ-13		150ml	166.66		
17						/ /							
18						/ /							
19						/ /							
20						/ /							
21						/ /							
22						/ /							
23						/ /							
24						/ /							

SUPERVISOR APPROVAL [signature]

Date 9/29/05

*On-column sample aliquot
+Not applicable to soil matrix

Tune (ID #7008) Lot No. 63570

Calibration Group Code / Lot No. DC2C8

The presence of the Chemist's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist together with the chemist's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

5/25/05:jad

4. Raw QC Data

   a. BFB Data

   b. Blank Data

   c. Laboratory Control Sample Data

   d. Matrix Spike Data

   e. Matrix Spike Duplicate Data

a. BFB Data

For each 12 hour period, per instrument utilized, include:

- Bar Graph spectrum and Tabulated Relative Abundances

- Mass listing

- Reconstructed ion chromatogram

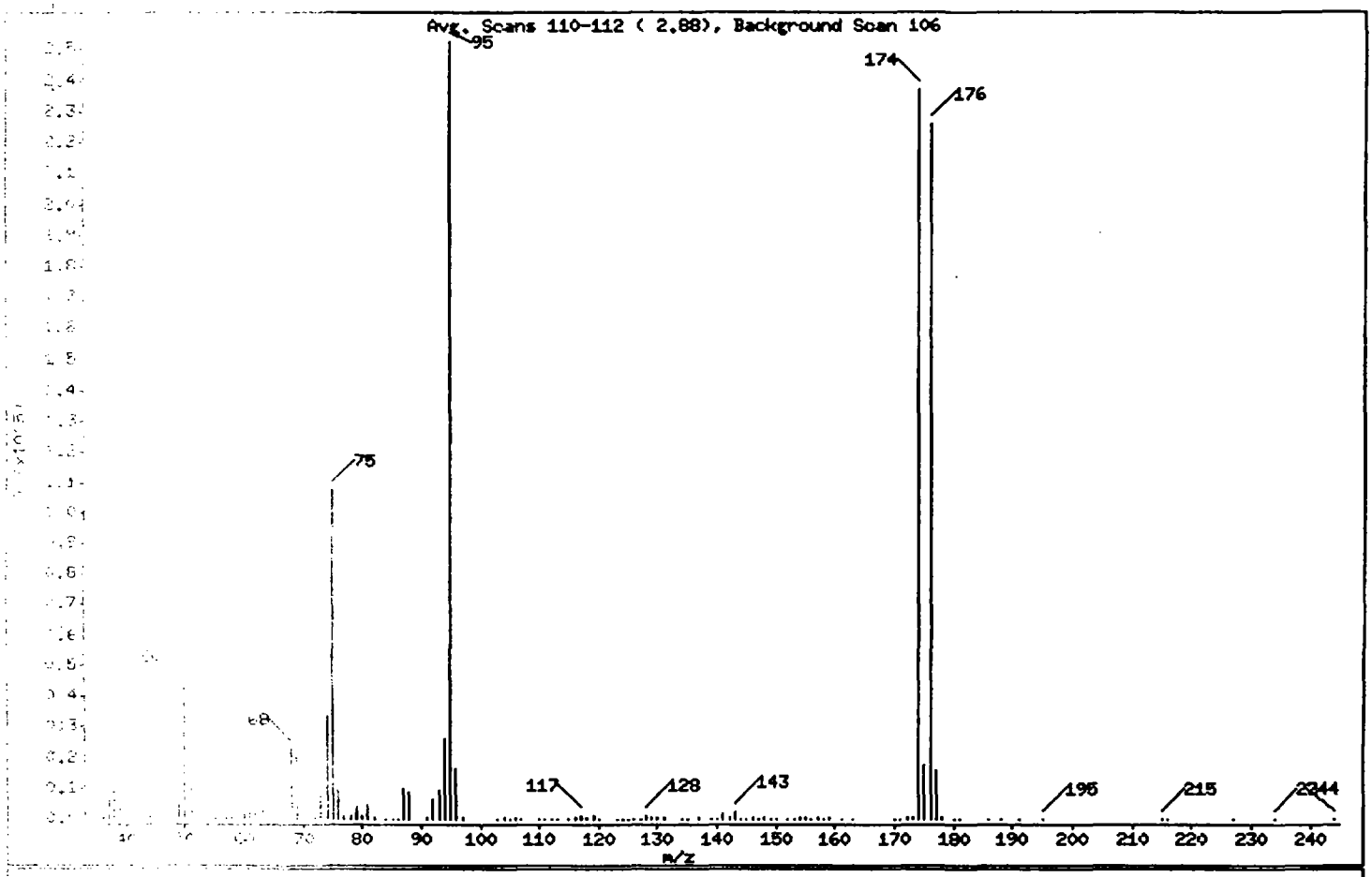
Data : /chem/5973hp61.i/DC050927B61.b/DC050927B61.d

Date : 27-SEP-2005 17:13

Instrument: 5973hp61.i

Operator: 2323

Column diameter: 0.18



	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	16.98
75	30.00 - 60.00% of mass 95	42.57
96	5.00 - 9.00% of mass 95	6.35
173	Less than 2.00% of mass 174	0.13 (0.14)
174	Greater than 50.00% of mass 95	93.69
175	5.00 - 9.00% of mass 174	6.87 (7.33)
176	95.00 - 101.00% of mass 174	89.49 (95.51)
177	5.00 - 9.00% of mass 176	6.21 (6.94)

...p61.i/BC050927B61.b/BC050927B61.d

...

...

Instrument: 5973mp61.i

Operator: 2323

Column diameter: 0.18

Data File: BC050927B61.d

Spectrum: Avg. Scans 110-112 (2.88), Background Scan 106

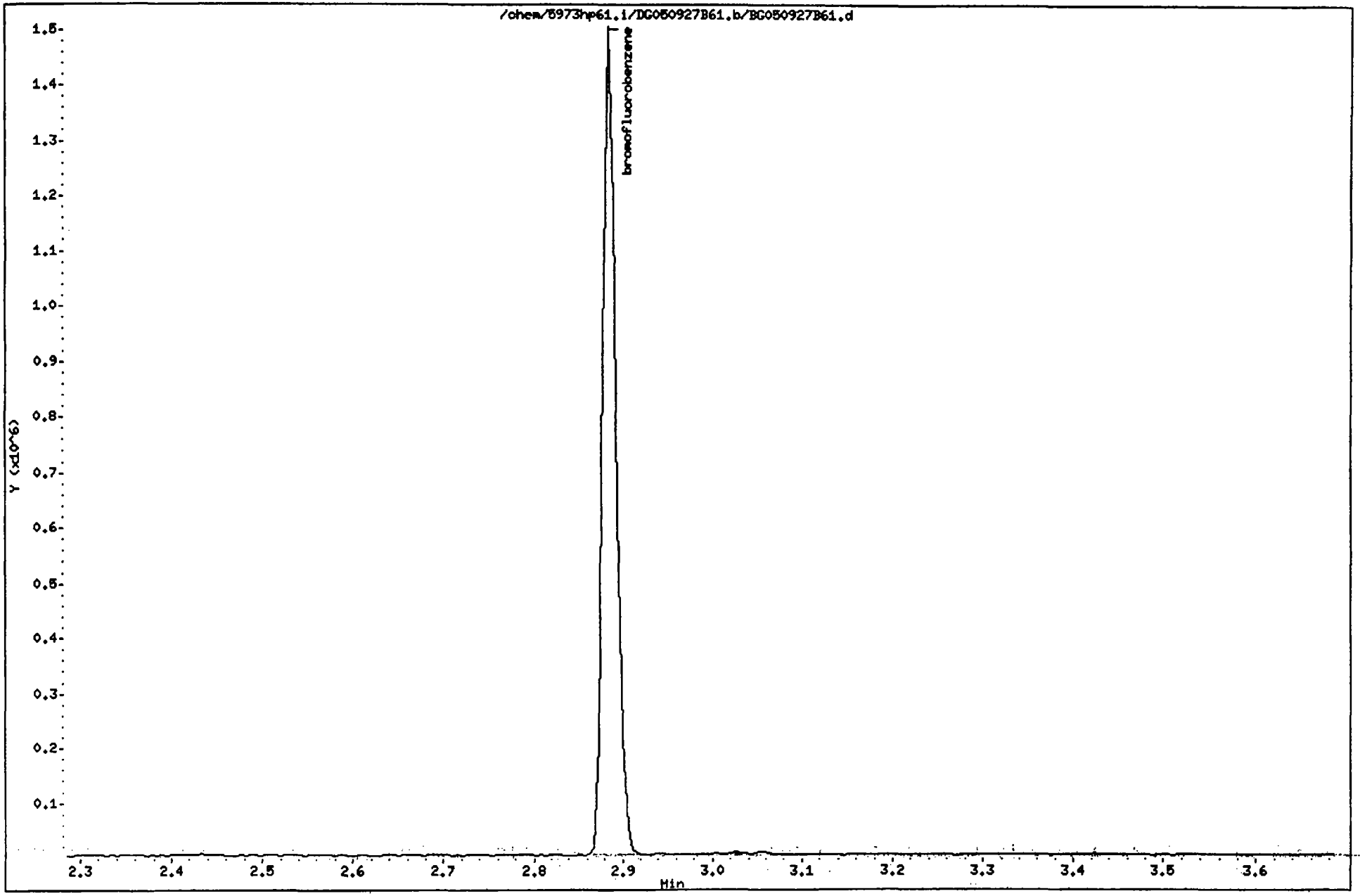
Location of Maximum: 96.00

Number of points: 124

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	73	72.00	968	115.00	224	154.00	328
36.00	2084	73.00	8216	116.00	847	155.00	547
37.00	10329	74.00	33792	117.00	1131	156.00	67
38.00	9414	75.00	107528	118.00	755	157.00	482
39.00	3751	76.00	9063	119.00	1056	158.00	42
40.00	10	77.00	1409	120.00	94	159.00	340
42.00	128	78.00	1048	123.00	169	161.00	173
44.00	1344	79.00	4061	124.00	74	163.00	36
45.00	2124	80.00	1292	125.00	143	170.00	35
47.00	3066	81.00	4528	126.00	141	171.00	102
48.00	1200	82.00	833	127.00	39	172.00	366
49.00	7656	84.00	63	128.00	969	173.00	333
50.00	42816	85.00	46	129.00	551	174.00	236672
51.00	13588	86.00	103	130.00	855	175.00	17352
52.00	597	87.00	10049	131.00	424	176.00	226048
53.00	65	88.00	8838	134.00	52	177.00	15679
55.00	496	91.00	533	135.00	222	178.00	487
56.00	2984	92.00	6463	137.00	363	180.00	34
57.00	5912	93.00	9286	139.00	183	181.00	36
58.00	375	94.00	26216	140.00	149	186.00	71
59.00	40	95.00	252608	141.00	1766	188.00	49
60.00	1540	96.00	16040	142.00	320	191.00	53
61.00	7999	97.00	412	143.00	2457	195.00	38
62.00	8632	103.00	134	144.00	156	215.00	77
63.00	7378	104.00	836	145.00	208	216.00	41
64.00	567	105.00	233	146.00	307	227.00	33
65.00	226	106.00	788	147.00	163	234.00	73
67.00	342	107.00	251	148.00	600	244.00	38
68.00	22384	110.00	90	149.00	121		
69.00	21776	111.00	234	150.00	278		
70.00	1713	112.00	94	152.00	189		
72.00	108	113.00	169	153.00	230		

Data File: /chem/5973hp61.i/DG050927B61.b/BG050927B61.d
Date : 27-SEP-2005 17:13
Client ID: BFB
Sample Info: BFB;2323
Volume Injected (uL): 2.0
Column phase: RTX-VMS

Instrument: 5973hp61.i
Operator: 2323
Column diameter: 0.18



Data [illegible] 5973hp61.i/DF050928B61.b/BF050928B61.d

Date : 28-SEP-2005 16:34

Client ID: BFB

Sample Info: BFB;2323

Volume Injected (ml): 2.0

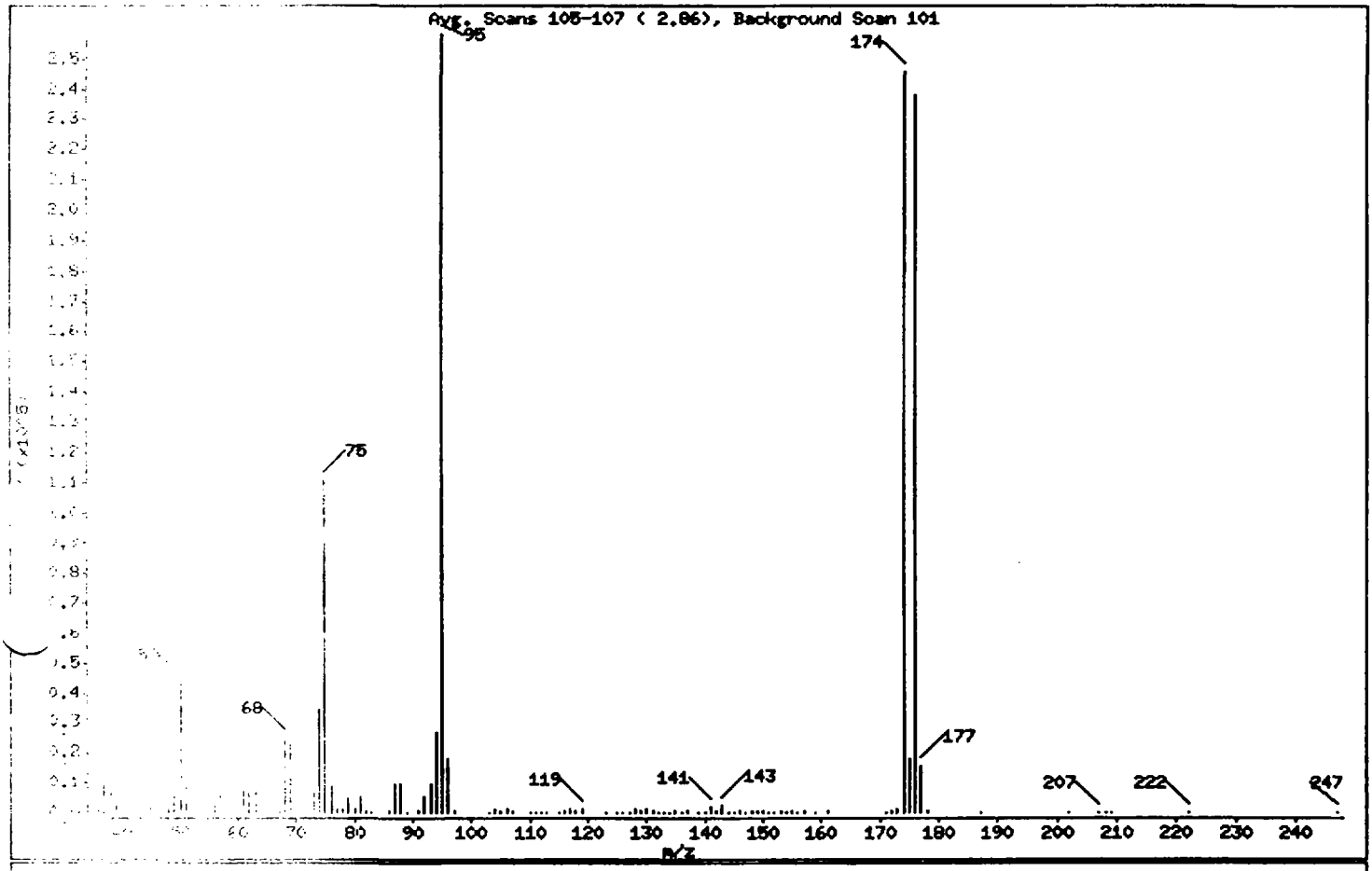
Column phase: [illegible]

1 [illegible]

Instrument: 5973hp61.i

Operator: 2323

Column diameter: 0.18



	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	16.61
75	30.00 - 60.00% of mass 95	42.64
96	5.00 - 9.00% of mass 95	6.78
177	Less than 2.00% of mass 174	0.57 (0.60)
174	Greater than 50.00% of mass 95	95.10
175	5.00 - 9.00% of mass 174	6.79 (7.14)
176	95.00 - 101.00% of mass 174	92.21 (96.96)
177	5.00 - 9.00% of mass 176	6.06 (6.57)

Instrument: 5973hp61.i

Operator: 2323

Column diameter: 0.18

Data File: BF050928B61.d

Spectrum: Avg. Scans 105-107 (2.86), Background Scan 101

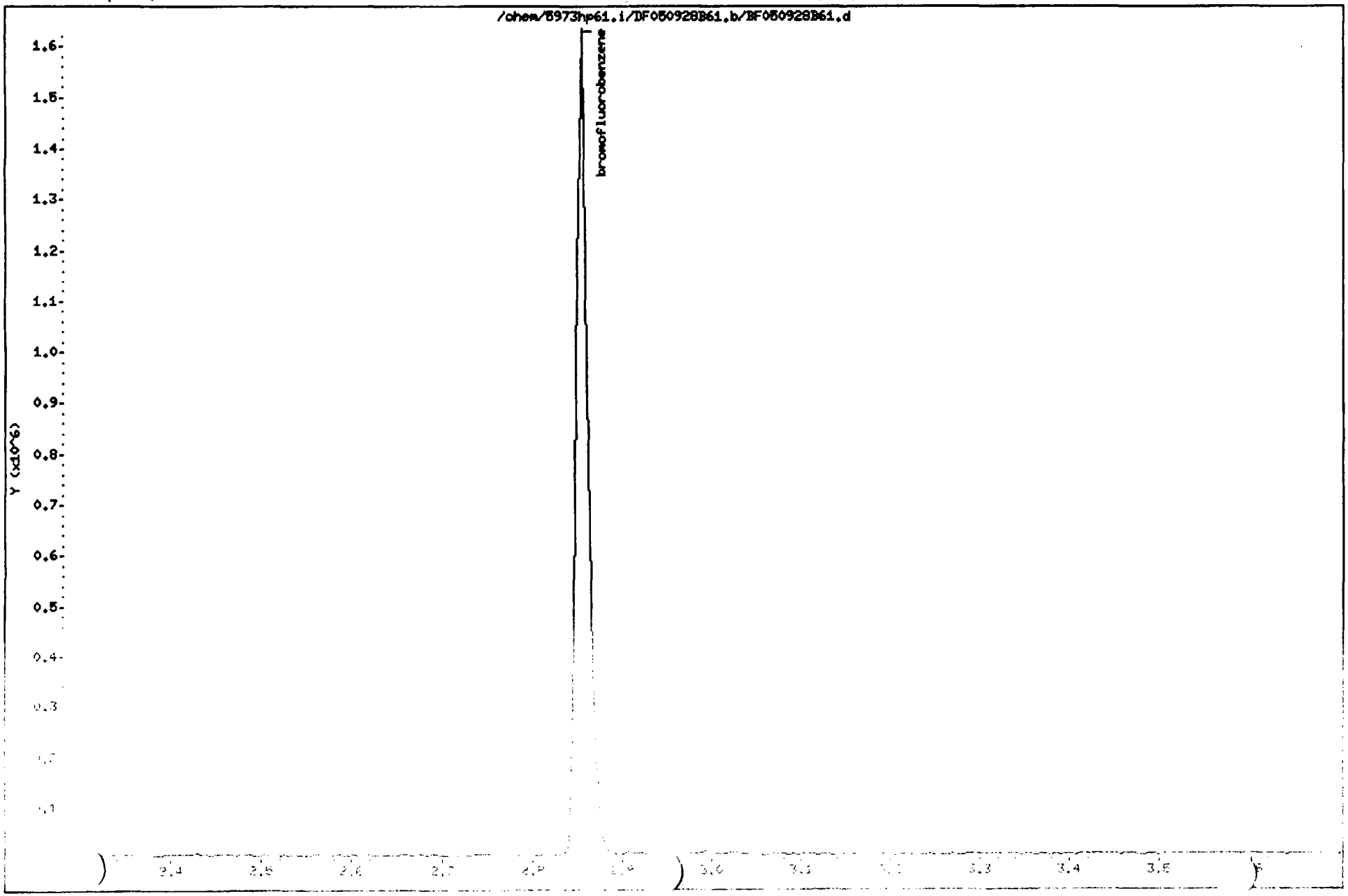
Location of Maximum: 96.00

Number of points: 120

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1513	69.00	23344	111.00	98	148.00	620
[illegible]	9956	70.00	1583	112.00	126	149.00	298
[illegible]	9575	72.00	1047	113.00	177	150.00	339
[illegible]	3773	73.00	9053	115.00	162	151.00	116
[illegible]	145	74.00	34688	116.00	823	152.00	140
[illegible]	110	75.00	110096	117.00	1248	153.00	303
[illegible]	41	76.00	9139	118.00	851	154.00	180
[illegible]	962	77.00	1292	119.00	1293	155.00	719
[illegible]	1962	78.00	940	123.00	49	156.00	39
[illegible]	159	79.00	4874	125.00	37	157.00	397
[illegible]	3105	80.00	1401	126.00	76	159.00	218
[illegible]	1582	81.00	5111	127.00	121	161.00	326
[illegible]	8471	82.00	777	128.00	932	171.00	191
[illegible]	42696	83.00	116	129.00	546	172.00	339
[illegible]	13268	86.00	390	130.00	900	173.00	1463
[illegible]	593	87.00	9534	131.00	317	174.00	245568
[illegible]	41	88.00	9755	132.00	116	175.00	17536
[illegible]	355	89.00	38	133.00	47	176.00	238080
[illegible]	3137	91.00	641	134.00	57	177.00	15652
[illegible]	5868	92.00	5606	135.00	696	178.00	441
[illegible]	288	93.00	9455	136.00	200	187.00	35
[illegible]	156	94.00	26784	137.00	464	202.00	54
[illegible]	1802	95.00	258176	139.00	52	207.00	137
[illegible]	8445	96.00	17512	140.00	194	208.00	33
[illegible]	8373	97.00	593	141.00	1948	209.00	47
[illegible]	7590	103.00	84	142.00	359	222.00	33
[illegible]	845	104.00	1089	143.00	2344	247.00	41
[illegible]	106	105.00	348	144.00	229		
[illegible]	35	106.00	1118	145.00	140		
[illegible]	442	107.00	299	146.00	479		
[illegible]	24768	110.00	38	147.00	231		

Data File: /chem/5973hp61.i/DF050928B61.b/BF050928B61.d
Date : 28-SEP-2005 16:34
Client ID: BFB
Sample Info: BFB;2323
Volume Injected (uL): 2.0
Column phase: RTX-VMS

Instrument: 5973hp61.i
Operator: 2323
Column diameter: 0.18



Data File: [illegible]5973hp61.i/DF050929A61.b/BF050929A61.d

Date : 2[illegible] 14:13

Client ID: [illegible]

Sample Info: [illegible]

[illegible]

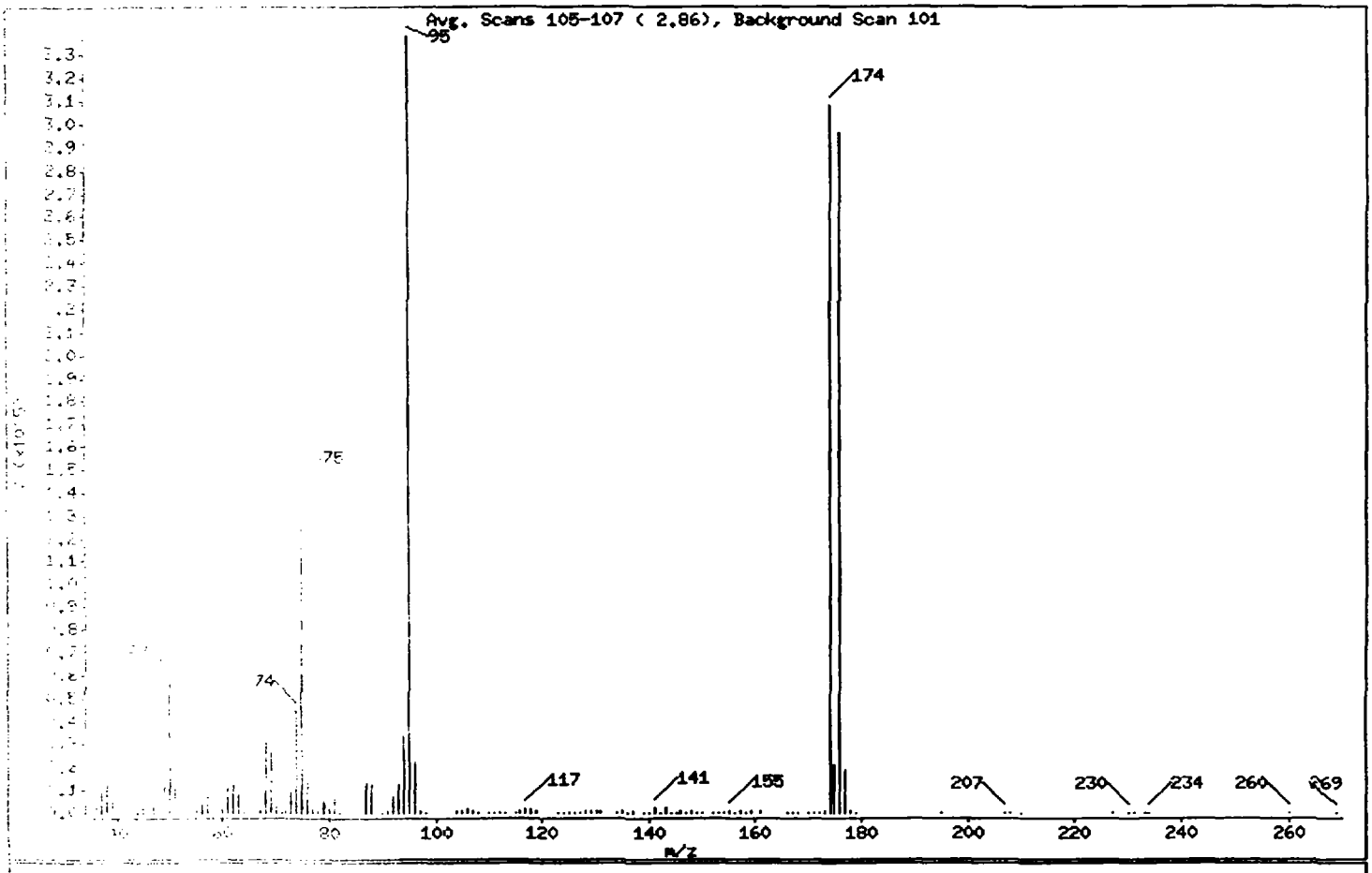
Column phase: [illegible]

1 [illegible]

Instrument: 5973hp61.i

Operator: 2323

Column diameter: 0.18



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.52
75	30.00 - 60.00% of mass 95	42.16
96	5.00 - 9.00% of mass 95	6.70
173	Less than 2.00% of mass 174	0.31 (0.35)
174	Greater than 50.00% of mass 95	91.07
175	5.00 - 9.00% of mass 174	6.22 (6.83)
176	95.00 - 101.00% of mass 174	87.68 (96.29)
177	5.00 - 9.00% of mass 176	5.63 (6.42)

Data File: /chem/5973hp61.i/DF050929A61.b/BF050929A61.d

Date 29-SEP-2005 14:13

Client ID: PFB

Instrument: 5973hp61.i

Sample Info: BFB+2323

Volume Injected: 2.0

Operator: 2323

Column phase: [illegible]

Column diameter: 0.18

Data File: BF050929A61.d

Spectrum: Avg. Scans 105-107 (2.86), Background Scan 101

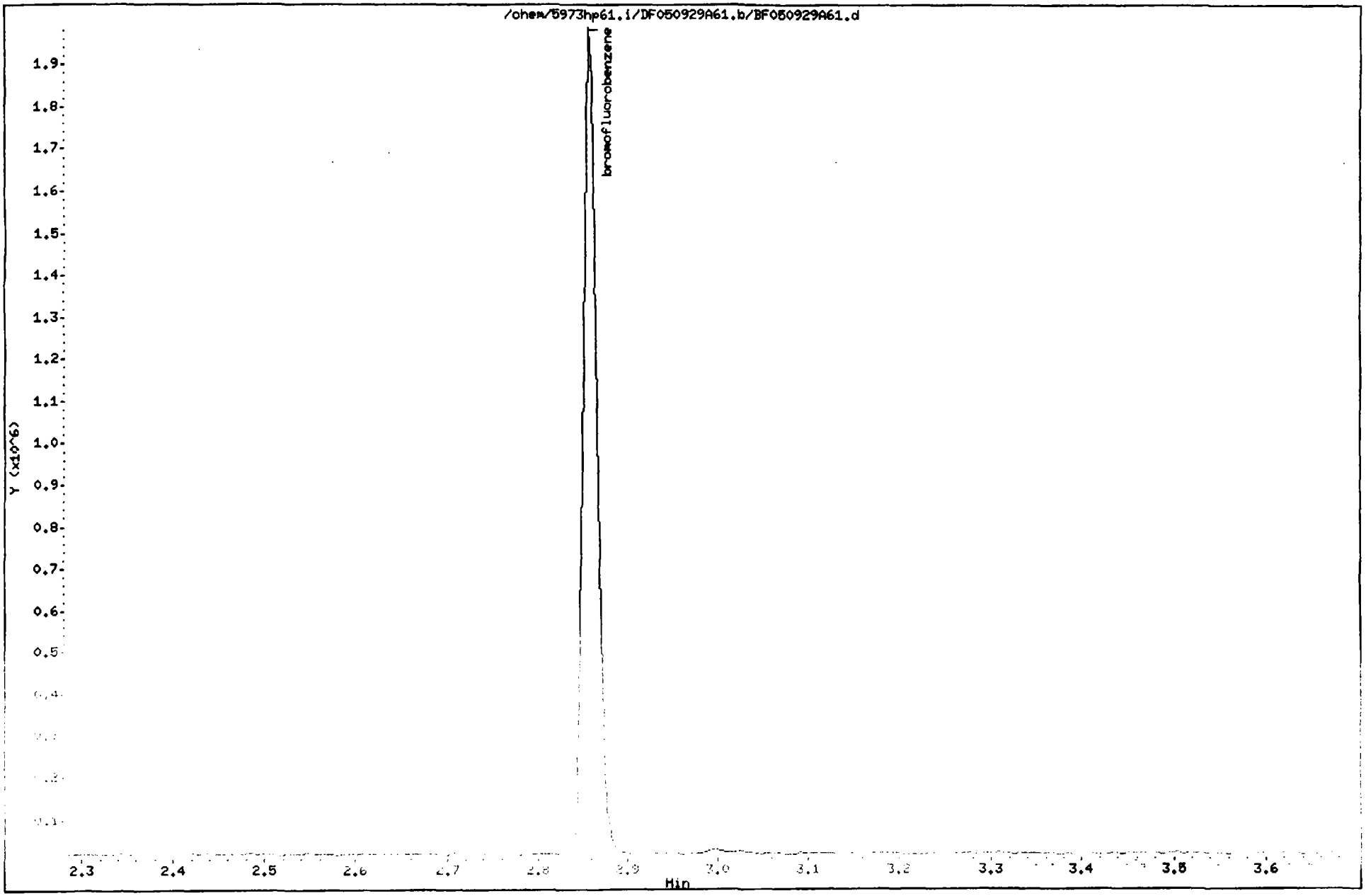
Location of Maximum: 95.00

Number of points: 129

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2341	73.00	10979	115.00	324	155.00	1074
37.00	12727	74.00	44232	116.00	903	156.00	160
38.00	12476	75.00	142528	117.00	1510	157.00	518
39.00	4905	76.00	13577	118.00	1189	158.00	36
40.00	206	77.00	1392	119.00	1032	159.00	504
41.00	98	78.00	842	123.00	149	161.00	436
44.00	1938	79.00	5266	124.00	209	166.00	57
45.00	2584	80.00	1441	125.00	79	167.00	38
47.00	3718	81.00	5951	126.00	112	168.00	70
48.00	1856	82.00	934	127.00	196	170.00	211
49.00	11628	83.00	147	128.00	1066	171.00	160
50.00	59224	85.00	66	129.00	846	172.00	381
51.00	17272	86.00	123	130.00	782	173.00	1065
52.00	948	87.00	13011	131.00	757	174.00	307904
53.00	110	88.00	12420	134.00	72	175.00	21032
54.00	73	90.00	33	135.00	529	176.00	296448
55.00	416	91.00	1082	136.00	64	177.00	19016
56.00	3680	92.00	7238	137.00	509	178.00	488
57.00	7773	93.00	12753	139.00	184	179.00	42
58.00	288	94.00	33088	140.00	65	195.00	157
60.00	2176	95.00	338112	141.00	2321	207.00	237
61.00	10566	96.00	22656	142.00	222	208.00	121
62.00	12246	97.00	613	143.00	2284	210.00	56
63.00	8820	98.00	95	144.00	185	227.00	38
64.00	833	104.00	1146	145.00	262	230.00	40
65.00	282	105.00	603	146.00	664	231.00	35
66.00	128	106.00	1273	147.00	242	233.00	86
67.00	415	107.00	391	148.00	605	234.00	96
68.00	31112	108.00	108	149.00	257	260.00	52
69.00	29776	110.00	156	150.00	322	269.00	48
70.00	2099	111.00	169	152.00	140		
71.00	80	112.00	172	153.00	298		
72.00	1256	113.00	147	154.00	327		

Data File: /chem/5973hp61.i/DF050929A61.b/BF050929A61.d
Date : 29-SEP-2005 14:13
Client ID: BFB
Sample Info: BFB:2323
Volume Injected (uL): 2.0
Column phase: RTX-VMS

Instrument: 5973hp61.i
Operator: 2323
Column diameter: 0.18



b. Blank Data

Arranged by type of blank (method, storage, instrument) in chronological order, by instrument. Shall include:

- Tabulated Results (Form I VOA)

- Tentatively Identified Compounds (Form I VOA-TIC)

- Reconstructed Ion Chromatogram and quantitation report.

- Target compound spectra with lab-generated standard spectra.

- Quantitation/Calculation of TIC concentrations.

- GC/MS library search spectra for TICs.

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBLKCG

Lab Name: COMPUCHEM Method: 8260B

Lab [illegible]: LIBERTY Case No.: SAS No.: SDG No.: 7829

[illegible] water) WATER Lab Sample ID: 80800

[illegible] 25 (g/ml) ML Lab File ID: 80800RB61_7829

[illegible] med) LOW Date Received: _____

% [illegible] not dec. _____ Date Analyzed: 09/27/05

[illegible] VMS ID: 0.18 (mm) Dilution Factor: 1.0

[illegible] Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
[illegible]	Dichlorodifluoromethane	0.50	U
[illegible]	Chloromethane	0.50	U
[illegible]	Vinyl Chloride	0.50	U
[illegible]	Bromomethane	0.50	U
[illegible]	Chloroethane	0.50	U
[illegible]	Trichlorofluoromethane	0.50	U
[illegible]	1,1-Dichloroethene	0.50	U
75-15-0	Carbon disulfide	0.50	U
[illegible]	1,1,2-trichloro-1,2,2-triflu	0.50	U
[illegible]	Acetone	2.5	U
[illegible]	Methyl acetate	0.50	U
75-09-2	Methylene Chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
[illegible]	Methyl-tert-butyl ether	0.50	U
[illegible]	1,1-Dichloroethane	0.50	U
[illegible]	cis-1,2-Dichloroethene	0.50	U
[illegible]	2-butanone	2.5	U
[illegible]	Chloroform	0.50	U
[illegible]	1,1,1-Trichloroethane	0.50	U
[illegible]	Carbon Tetrachloride	0.50	U
[illegible]	Benzene	0.50	U
[illegible]	1,2-Dichloroethane	0.50	U
[illegible]	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	2.5	U
[illegible]	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
[illegible]	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
[illegible]	2-hexanone	2.5	U
124-48-1	Dibromochloromethane	0.50	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBLKCG

Lab Name: COMPUCHEM Method: 8260B

Lab [illegible]: LIBERTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 80800

Sample wt/vol: 25 (g/ml) ML Lab File ID: 80800RB61_7829

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

% Moisture: not dec. _____ Date Analyzed: 09/27/05

GC Column: RTX VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
108-38-3	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropyl Benzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-Chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.19	J
1330-20-7	Xylene (total)	0.50	U
110-82-7	Cyclohexane	0.50	U
108-87-2	Methylcyclohexane	0.50	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

VBLKCG

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 80800

Sample wt/vol: 25 (g/ml) ML Lab File ID: 80800RB61_7829

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

% Moisture: not dec. _____ Date Analyzed: 09/27/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

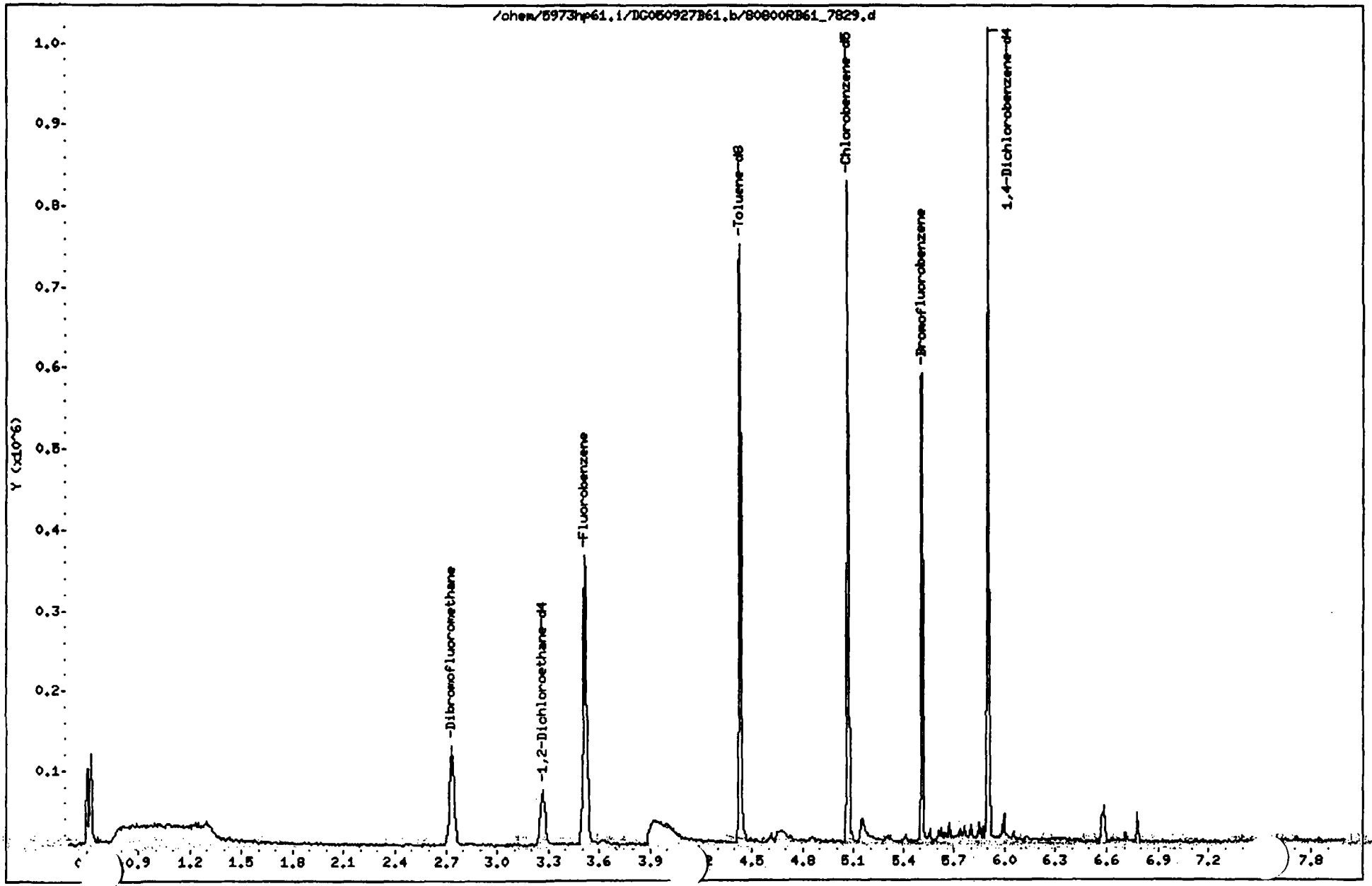
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I VOA-TIC

Data File: /chem/5973hp61.i/DC050927B61.b/80800RB61_7829.d
Date : 27-SEP-2005 21:28
Client ID: VBLKCC
Instrument: 5973hp61.i
Sample Info: 80800;2323
Purge Volume: 25.0
Operator: 2323
Column phase: RTX-VMS
Column diameter: 0.18



Data File: /chem/5973hp61.i/DG050927B61.b/80800RB61_7829.d
Report Date: 28-Sep-2005 03:35

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5973hp61.i/DG050927B61.b/80800RB61_7829.d
Lab Smp Id: 80800 Client Smp ID: VBLKCG
Inj Date : 27-SEP-2005 21:28
Operator : 2323 Inst ID: 5973hp61.i
Smp Info : 80800:2323
Misc Info : 61
Comment :
Method : /chem/5973hp61.i/DG050927B61.b/W8260-B-25MLv9.m
Meth Date : 28-Sep-2005 02:50 fertile Quant Type: ISTD
Cal Date : 27-SEP-2005 20:02 Cal File: CZ050927B61.d
Als bottle: 30 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TCL4.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	volume of water
DF	1.00000	dilution factor

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
*	1 Fluorobenzene	96	3.517	3.517	(1.000)	274913	125.000	
*	2 Chlorobenzene-d5	117	5.069	5.069	(1.000)	214217	125.000	
*	3 1,4-Dichlorobenzene-d4	152	5.901	5.907	(1.000)	115398	125.000	
$	4 Dibromofluoromethane	113	2.733	2.739	(0.777)	78947	130.903	5.2
$	5 1,2-Dichloroethane-d4	65	3.267	3.267	(0.929)	48581	120.198	4.8
$	6 Toluene-d8	98	4.437	4.437	(0.875)	261403	122.217	4.9
$	7 Bromofluorobenzene	95	5.510	5.515	(0.934)	96434	124.741	5.0
	8 Dichlorodifluoromethane	85	Compound Not Detected.					
	9 Chloromethane	50	Compound Not Detected.					
	10 Vinyl Chloride	62	Compound Not Detected.					
	11 Bromomethane	94	Compound Not Detected.					
	12 Chloroethane	64	Compound Not Detected.					
	13 Trichlorofluoromethane	101	Compound Not Detected.					
	16 1,1-Dichloroethene	96	Compound Not Detected.					
	18 Acetone	43	Compound Not Detected.					
	20 1,1,2-trichloro-1,2,2-trifluo	85	Compound Not Detected.					

Data File : /chem/5973hp61.i/DG050927B61.b/80800RB61_7829.d
Report Date: 28-Sep-2005 03:35

	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
	76	Compound Not Detected.					
	43	Compound Not Detected.					
	84	Compound Not Detected.					
	96	Compound Not Detected.					
	73	Compound Not Detected.					
	63	Compound Not Detected.					
	96	Compound Not Detected.					
	43	Compound Not Detected.					
	83	Compound Not Detected.					
	97	Compound Not Detected.					
	84	Compound Not Detected.					
	117	Compound Not Detected.					
	62	Compound Not Detected.					
	78	Compound Not Detected.					
	130	Compound Not Detected.					
	83	Compound Not Detected.					
	63	Compound Not Detected.					
	83	Compound Not Detected.					
	75	Compound Not Detected.					
	43	Compound Not Detected.					
	92	Compound Not Detected.					
	75	Compound Not Detected.					
	97	Compound Not Detected.					
	164	Compound Not Detected.					
	43	Compound Not Detected.					
	129	Compound Not Detected.					
	107	Compound Not Detected.					
	112	Compound Not Detected.					
	106	Compound Not Detected.					
	106	Compound Not Detected.					
	106	Compound Not Detected.					
	104	Compound Not Detected.					
	173	Compound Not Detected.					
	105	Compound Not Detected.					
	83	Compound Not Detected.					
	146	Compound Not Detected.					
	146	Compound Not Detected.					
	146	Compound Not Detected.					
	75	Compound Not Detected.					
	180	6.587	6.593	(1.116)	5680	4.84713	0.19(a)
	106	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

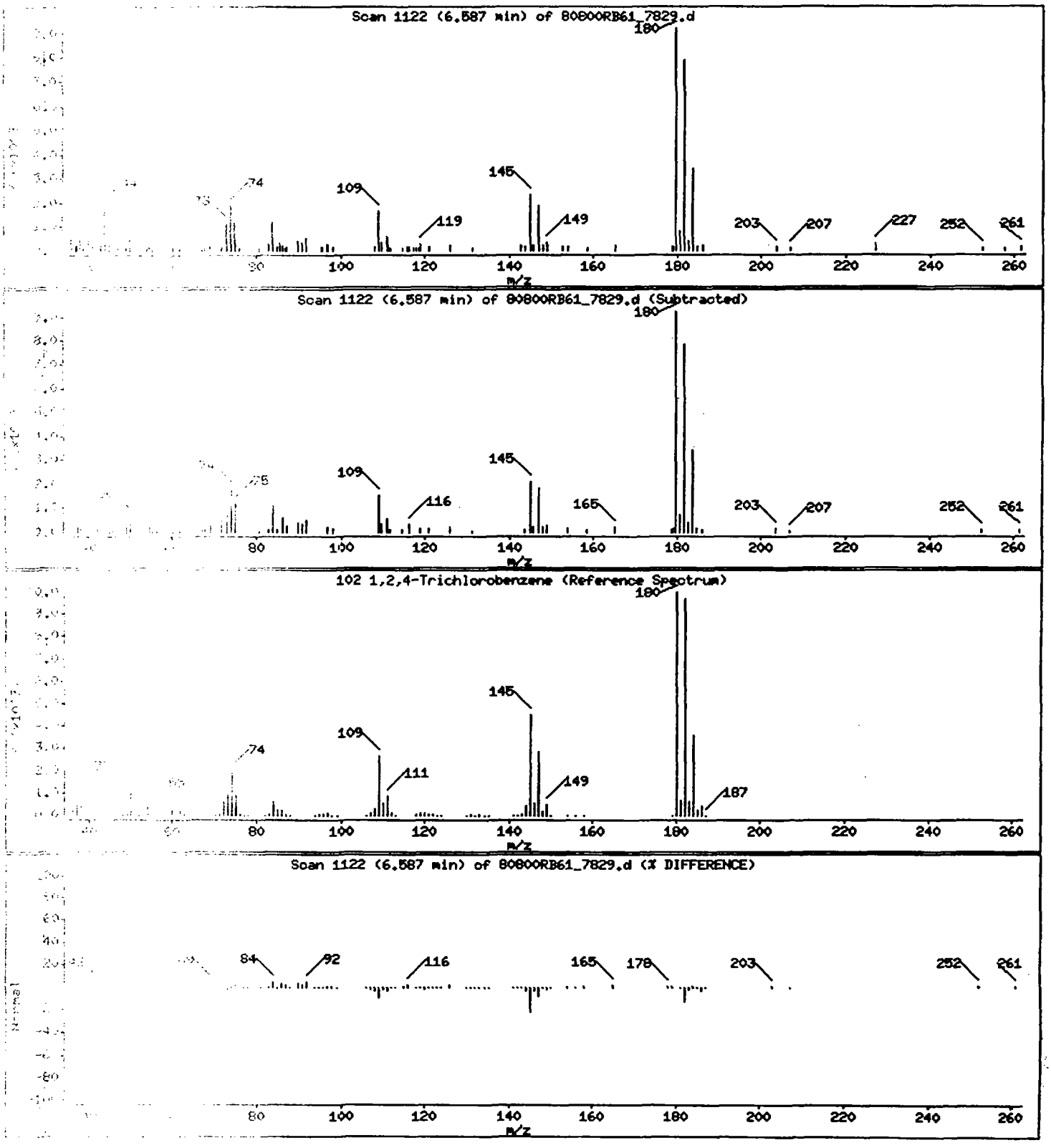
5973hp61.i/DG050927B61.b/80800RB61_7829.d

Instrument: 5973hp61.i

Operator: 2323

Column diameter: 0.18

Concentration: 0.19 ug/L



Data File: /chem/5973hp61.i/DG050927B61.b/80800RB61_7829.d
Report Date: 28-Sep-2005 03:35

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5973hp61.i/DG050927B61.b/80800RB61_7829.d
Lab Smp Id: 80800 Client Smp ID: VBLKCG
Inj Date : 27-SEP-2005 21:28
Operator : 2323 Inst ID: 5973hp61.i
Smp Info : 80800:2323
Misc Info : 61
Comment :
Method : /chem/5973hp61.i/DG050927B61.b/W8260-B-25MLv9.m
Meth Date : 28-Sep-2005 02:50 fertile Quant Type: ISTD
Cal Date : 27-SEP-2005 20:02 Cal File: CZ050927B61.d
Als bottle: 30 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TCL4.sub
Target Version: 3.50

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBLKED

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 81179

Sample wt/vol: 25 (g/ml) ML Lab File ID: 81179RB61_7829

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

% Moisture: not dec. _____ Date Analyzed: 09/28/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
75-15-0	Carbon disulfide	0.50	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	0.50	U
67-64-1	Acetone	1.6	J
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene Chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl-tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-butanone	2.5	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	2.5	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-hexanone	2.5	U
124-48-1	Dibromochloromethane	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBLKED

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 81179

Sample wt/vol: 25 (g/ml) ML Lab File ID: 81179RB61_7829

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

% Moisture: not dec. _____ Date Analyzed: 09/28/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
108-38-3	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropyl Benzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-Chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.11	J
1330-20-7	Xylene (total)	0.50	U
110-82-7	Cyclohexane	0.50	U
108-87-2	Methylcyclohexane	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

VBLKED

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 81179

Sample wt/vol: 25 (g/ml) ML Lab File ID: 81179RB61_7829

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

% Moisture: not dec. ________ Date Analyzed: 09/28/05

GC Column: DB-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

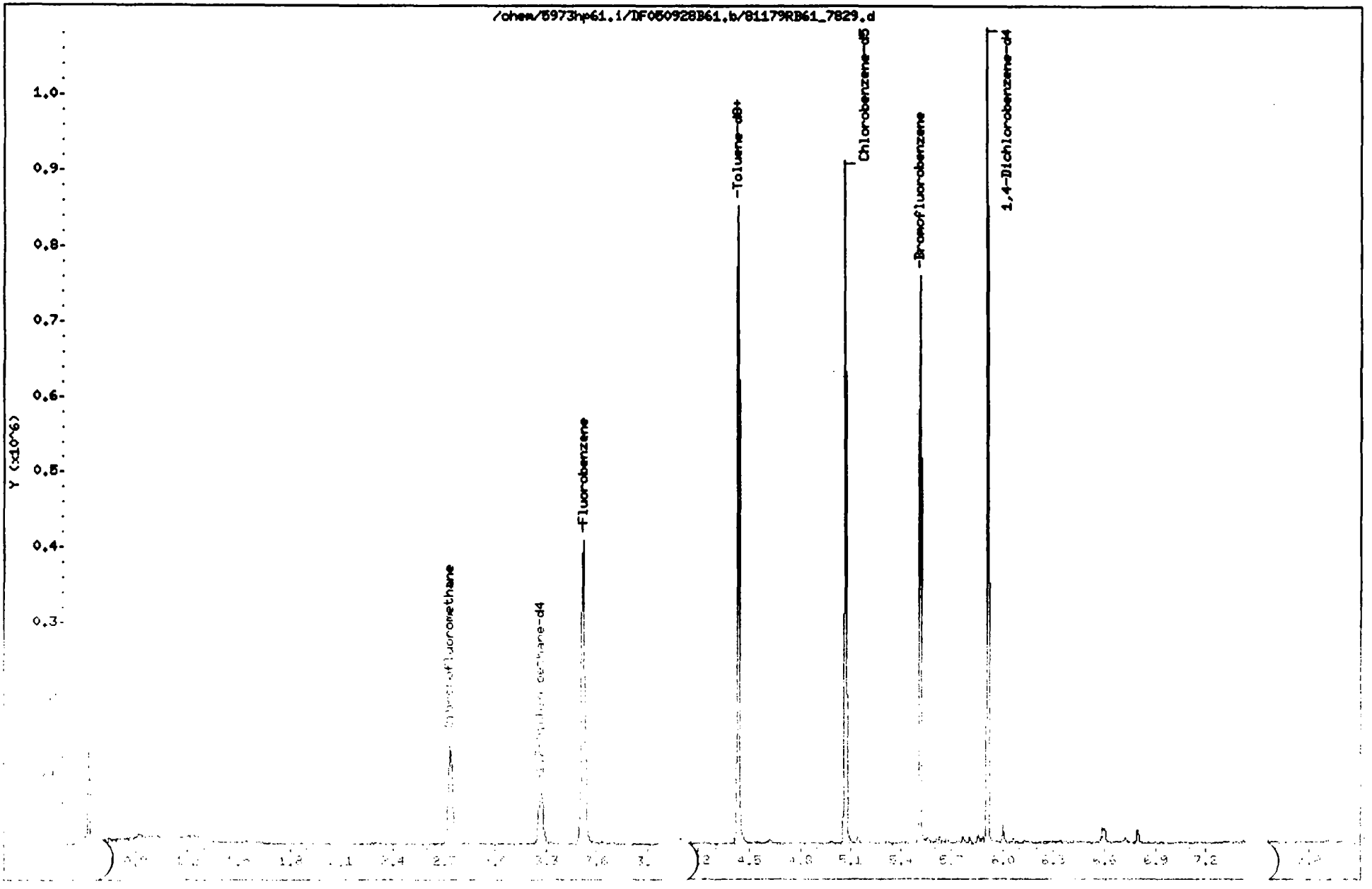
CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

Data File: /chem/5973hp61.i/DF050928B61.b/81179RB61_7829.d
Date : 28-SEP-2005 17:50
Client ID: VBLKED
Instrument: 5973hp61.i
Sample Info:
Purge Volume: 25.0
Operator: 2323
Column phase: RTX-VMS
Column diameter: 0.18



Data File: /chem/5973hp61.i/DF050928B61.b/81179RB61_7829.d
Report Date: 29-Sep-2005 02:03

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5973hp61.i/DF050928B61.b/81179RB61_7829.d
Lab Smp Id: 81179 Client Smp ID: VBLKED
Inj Date : 28-SEP-2005 17:50
Operator : 2323 Inst ID: 5973hp61.i
Smp Info :
Misc Info :
Comment :
Method : /chem/5973hp61.i/DF050928B61.b/W8260-B-25MLv9.m
Meth Date : 29-Sep-2005 00:48 fertile Quant Type: ISTD
Cal Date : 27-SEP-2005 20:02 Cal File: CZ050927B61.d
Als bottle: 7 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TCL4.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	volume of water
DF	1.00000	dilution factor

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
*	1 Fluorobenzene	96	3.523	3.517	(1.000)	291026	125.000	
*	2 Chlorobenzene-d5	117	5.069	5.069	(1.000)	223479	125.000	
*	9 1,4-Dichlorobenzene-d4	152	5.907	5.901	(1.000)	125328	125.000	
$	4 Dibromofluoromethane	113	2.739	2.733	(0.777)	83854	131.342	5.3
$	5 1,2-Dichloroethane-d4	65	3.267	3.267	(0.927)	53776	125.685	5.0
$	6 Toluene-d8	98	4.437	4.437	(0.875)	283063	126.859	5.1
$	7 Bromofluorobenzene	95	5.515	5.510	(0.934)	102311	121.857	4.9
	8 Dichlorodifluoromethane	85	Compound Not Detected.					
	9 Chloromethane	50	Compound Not Detected.					
	10 Vinyl Chloride	62	Compound Not Detected.					
	11 Bromomethane	94	Compound Not Detected.					
	12 Chloroethane	64	Compound Not Detected.					
	13 Trichlorofluoromethane	101	Compound Not Detected.					
	16 1,1-Dichloroethene	96	Compound Not Detected.					
	18 Acetone	43	1.541	1.536	(0.438)	2900	39.1242	1.6(a)
	20 1,1,2-trichloro-1,2,2-trifluo	85	Compound Not Detected.					

Data File: /chem/5973hp61.i/DF050928B61.b/81179RB61_7829.d
Report Date: 29-Sep-2005 02:03

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
21	Carbon disulfide	76	Compound Not Detected.					
163	Methyl acetate	43	Compound Not Detected.					
24	Methylene Chloride	84	Compound Not Detected.					
27	trans-1,2-Dichloroethene	96	Compound Not Detected.					
28	Methyl-tert-butyl ether	73	Compound Not Detected.					
30	1,1-Dichloroethane	63	Compound Not Detected.					
34	cis-1,2-Dichloroethene	96	Compound Not Detected.					
37	2-butanone	43	Compound Not Detected.					
42	Chloroform	83	Compound Not Detected.					
43	1,1,1-Trichloroethane	97	Compound Not Detected.					
44	Cyclohexane	84	Compound Not Detected.					
48	Carbon Tetrachloride	117	Compound Not Detected.					
49	1,2-Dichloroethane	62	Compound Not Detected.					
51	Benzene	78	Compound Not Detected.					
53	Trichloroethene	130	Compound Not Detected.					
54	Methylcyclohexane	83	Compound Not Detected.					
55	1,2-Dichloropropane	63	Compound Not Detected.					
59	Bromodichloromethane	83	Compound Not Detected.					
61	cis-1,3-Dichloropropene	75	Compound Not Detected.					
62	4-Methyl-2-pentanone	43	Compound Not Detected.					
63	Toluene	92	Compound Not Detected.					
64	trans-1,3-Dichloropropene	75	Compound Not Detected.					
65	1,1,2-Trichloroethane	97	Compound Not Detected.					
	Tetrachloroethene	164	Compound Not Detected.					
	2-hexanone	43	Compound Not Detected.					
70	Dibromochloromethane	129	Compound Not Detected.					
71	1,2-Dibromoethane	107	Compound Not Detected.					
72	Chlorobenzene	112	Compound Not Detected.					
75	Ethylbenzene	106	Compound Not Detected.					
76	m,p-Xylene	106	Compound Not Detected.					
77	o-Xylene	106	Compound Not Detected.					
78	Styrene	104	Compound Not Detected.					
79	Bromoform	173	Compound Not Detected.					
81	Isopropyl Benzene	105	Compound Not Detected.					
82	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
94	1,3-Dichlorobenzene	146	Compound Not Detected.					
96	1,4-Dichlorobenzene	146	Compound Not Detected.					
98	1,2-Dichlorobenzene	146	Compound Not Detected.					
101	1,2-Dibromo-3-Chloropropane	75	Compound Not Detected.					
102	1,2,4-Trichlorobenzene	180	6.604	6.587	(1.118)	3595	2.82479	0.11(a)
M 107	Xylene (total)	106	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

Data File: /chem/5973hp61.i/DF050928B61.b/81179RB61_7829.d

Date : 28-SEP-2005 17:50

Client ID: VBLKED

Instrument: 5973hp61.i

Sample Info:

Purge Volume: 25.0

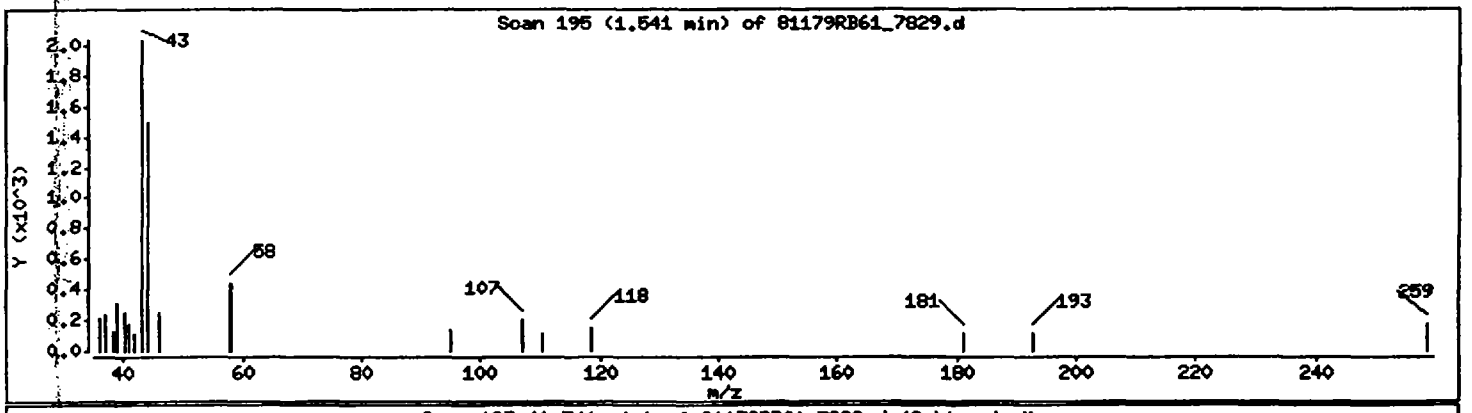
Operator: 2323

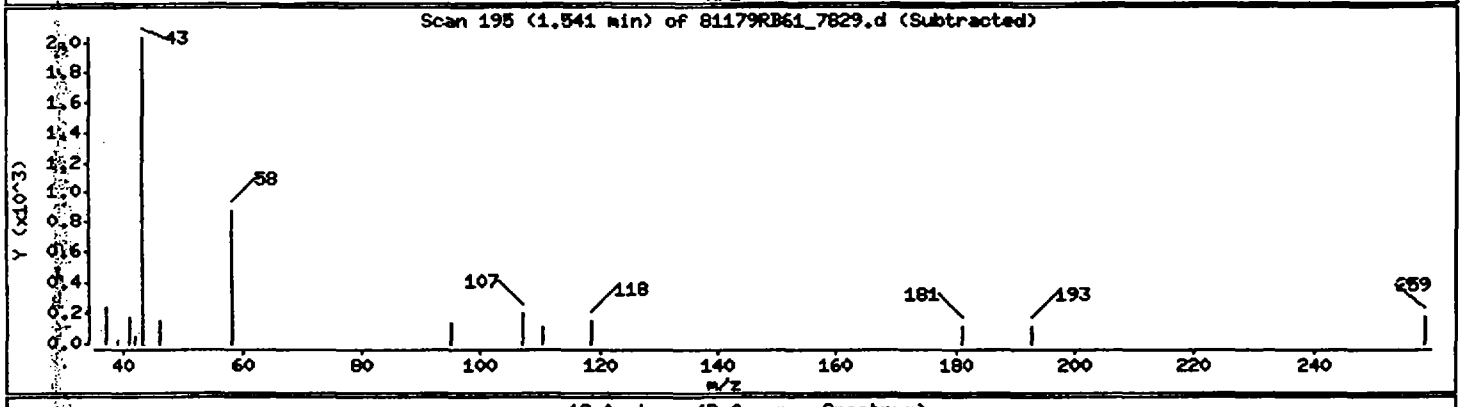
Column phase: RTX-VMS

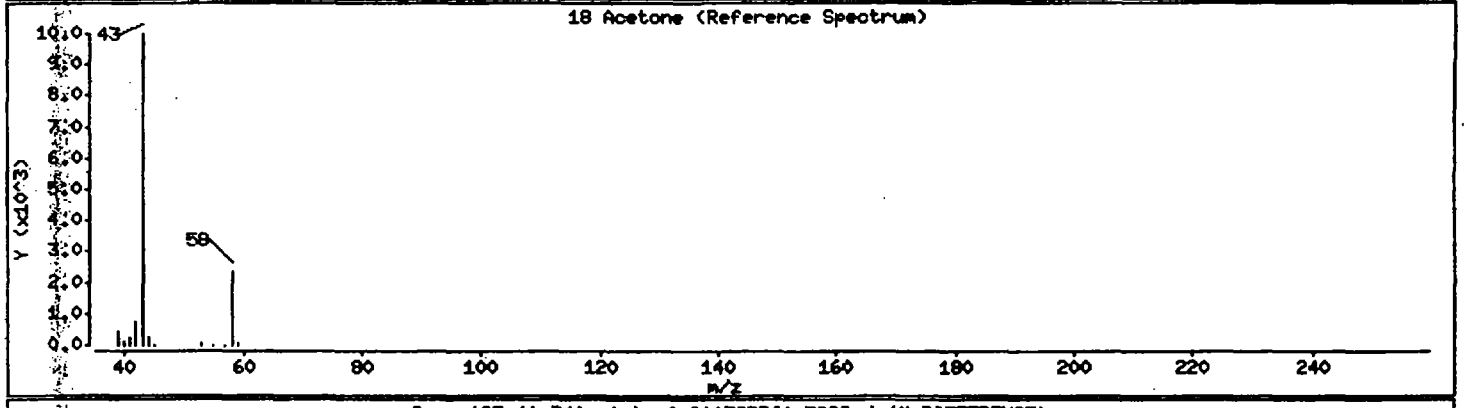
Column diameter: 0.18

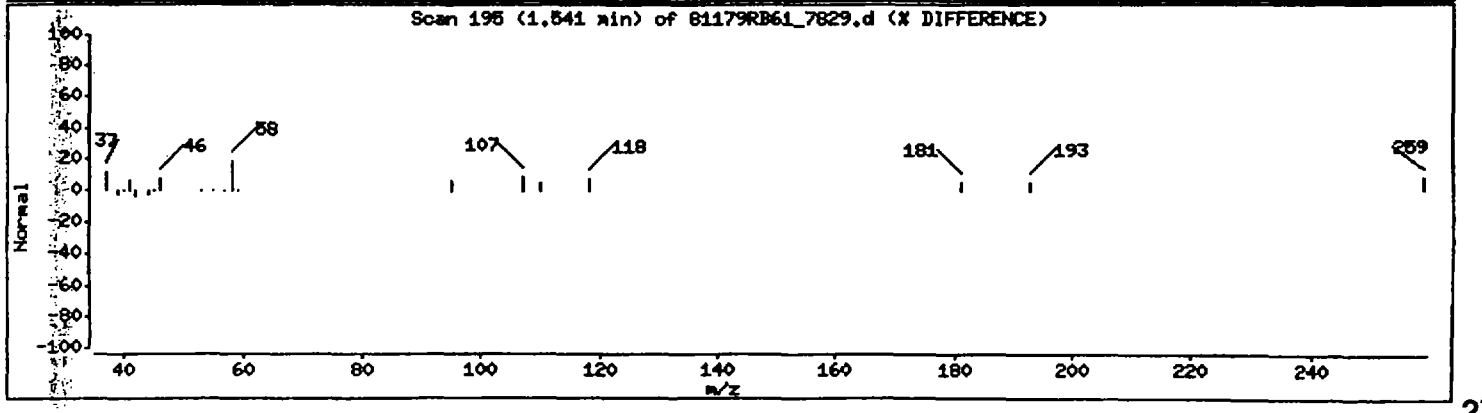
18 Acetone

Concentration: 1.6 ug/L









Dat. File: [illegible]hp61.i/DF050928B61.b/81179RB61_7829.d

Date: [illegible]2005 17:50

Client ID: [illegible]

Instrument: 5973hp61.i

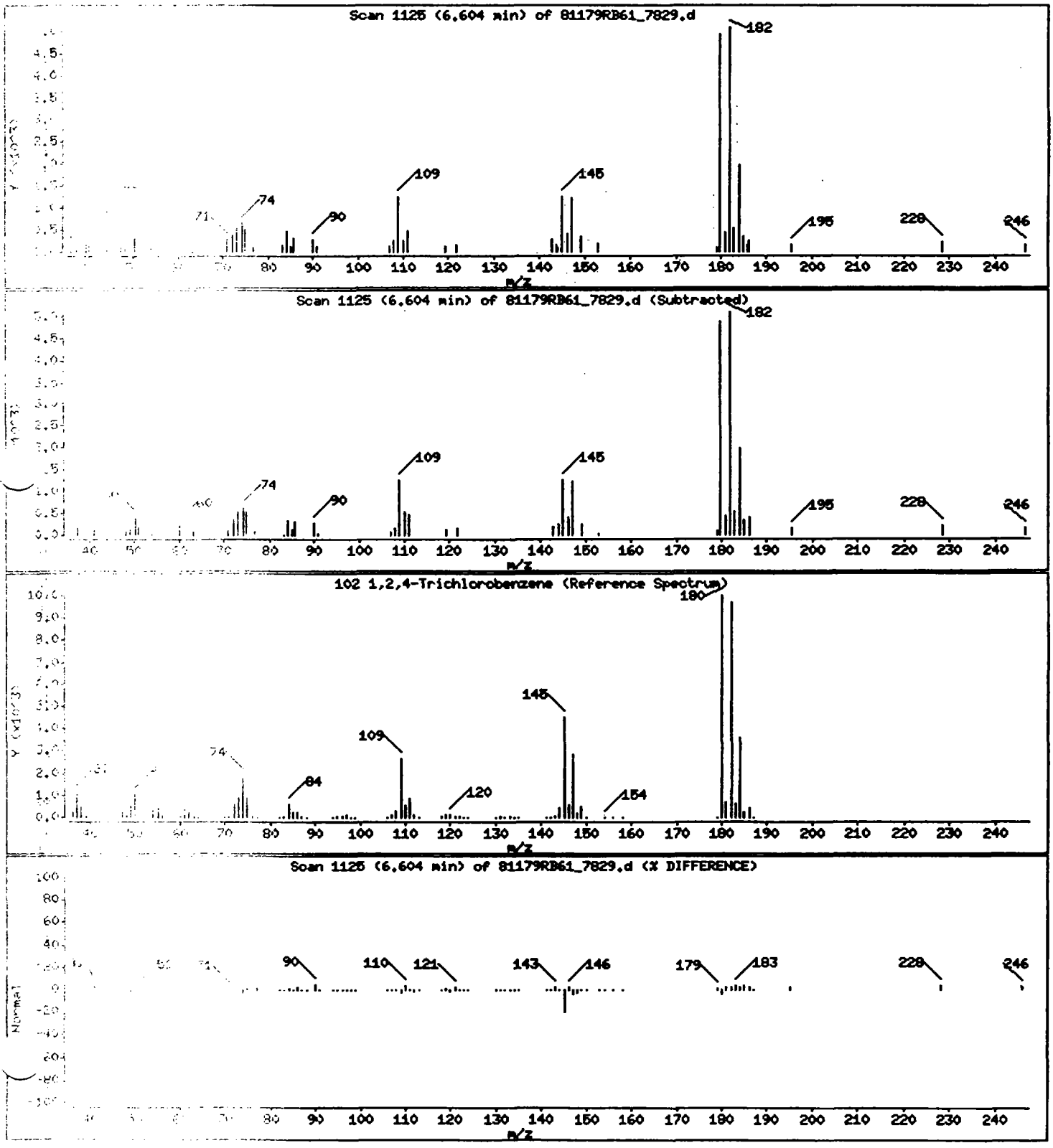
Sample Info:

Operator: 2323

Column diameter: 0.18

102 [illegible]

Concentration: 0.11 ug/L



Data Path : /chem/5973hp61.i/DF050928B61.b/81179RB61_7829.d
Report Date: 29-Sep-2005 02:03

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT
Data Path : /chem/5973hp61.i/DF050928B61.b/81179RB61_7829.d
Lab Smp Id: [illegible] Client Smp ID: VBLKED
Inj Date : 28-SEP-2005 17:50
Operator : [illegible] Inst ID: 5973hp61.i
Smp Info :
Misc Info :
Comment :
Method : /chem/5973hp61.i/DF050928B61.b/W8260-B-25MLv9.m
Meth Date : 29-Sep-2005 00:48 fertile Quant Type: ISTD
Cal Date : 27-SEP-2005 20:02 Cal File: CZ050927B61.d
Als bottle: 7 QC Sample: BLANK
Dil Factor: 1.0000
Integrator: HP RTE Compound Sublist: TCL4.sub
Target Version: 3.50

NO TENTATIVELY IDENTIFIED COMPOUNDS -

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBLKDJ

ab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 81062

Sample wt/vol: 25 (g/ml) ML Lab File ID: 81062RA61_7829

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

% Moisture: not dec. _____ Date Analyzed: 09/29/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
75-15-0	Carbon disulfide	0.50	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	0.50	U
67-64-1	Acetone	2.5	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene Chloride	0.18	J
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl-tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-butanone	2.5	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	2.5	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-hexanone	2.5	U
124-48-1	Dibromochloromethane	0.50	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBLKDJ

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 81062

Sample wt/vol: 25 (g/ml) ML Lab File ID: 81062RA61_7829

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

% Moisture: not dec. _____ Date Analyzed: 09/29/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
108-38-3	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropyl Benzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-Chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
110-82-7	Cyclohexane	0.50	U
108-87-2	Methylcyclohexane	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

VBLKDJ

ab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 81062

Sample wt/vol: 25 (g/ml) ML Lab File ID: 81062RA61_7829

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

% Moisture: not dec. _____ Date Analyzed: 09/29/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

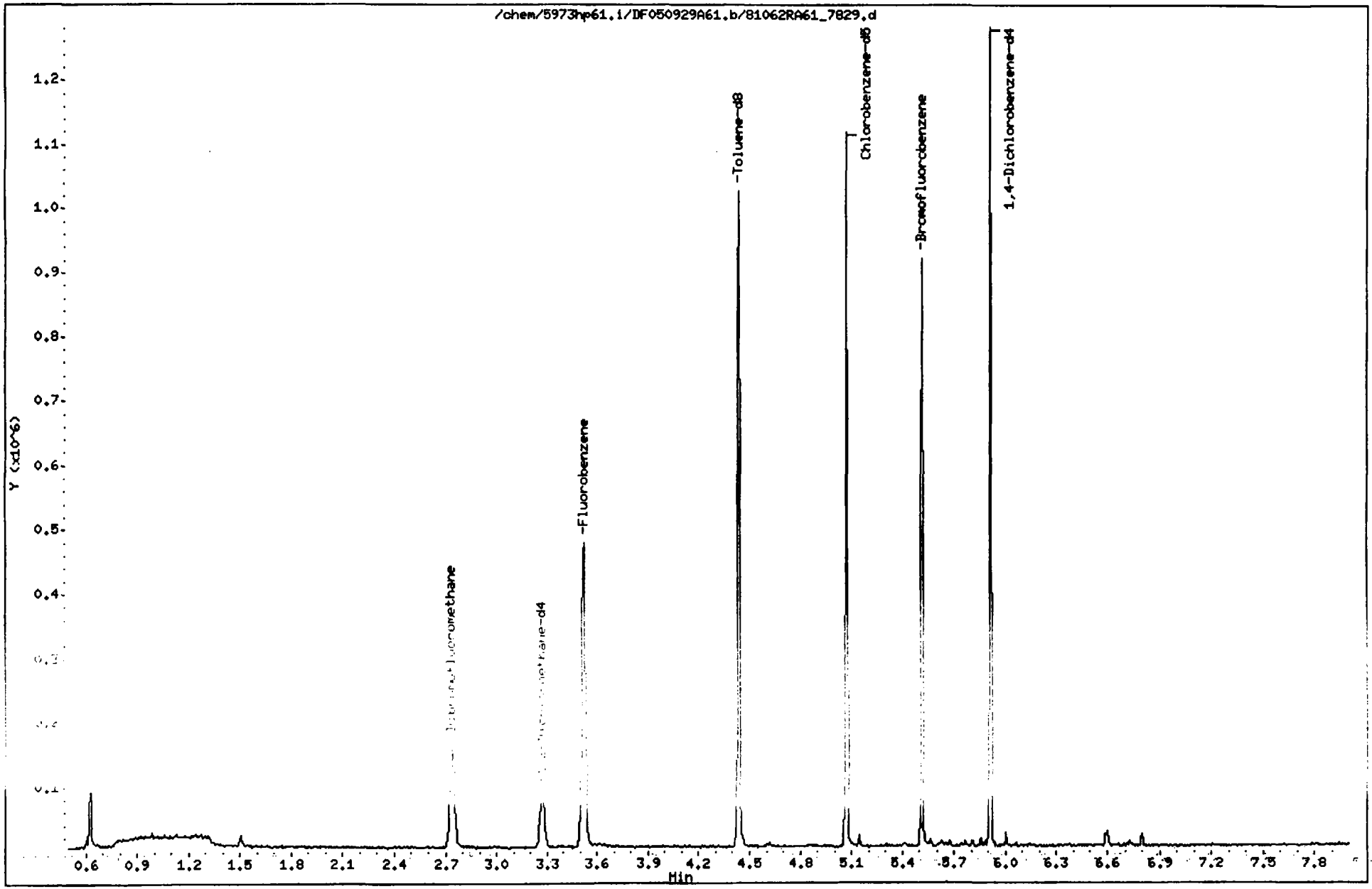
Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I VOA-TIC

Data File: /chem/5973hp61.i/DF050929A61.b/81062RA61_7829.d
Date : 29-SEP-2005 15:20
Client ID: VBLKDJ
Sample Info: 81062;2323
Purge Volume: 25.0
Column phase: RTX-VMS

Instrument: 5973hp61.i
Operator: 2323
Column diameter: 0.18



Data File : chem/5973hp61.i/DF050929A61.b/81062RA61_7829.d
Report Date: 29 Sep-2005 08:20

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data File : chem/5973hp61.i/DF050929A61.b/81062RA61_7829.d
Lab Smp Id: 81062 Client Smp ID: VBLKDJ
Inj Date : 29-SEP-2005 15:20
Operator : 2323 Inst ID: 5973hp61.i
Smp Info : 81062,2323
Misc Info : 61
Comment :
Method : chem/5973hp61.i/DF050929A61.b/W8260-B-25MLv9.m
Meth Date : 29-Sep-2005 06:12 harris Quant Type: ISTD
Cal Date : 27-SEP-2005 20:02 Cal File: CZ050927B61.d
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TCL4.sub
Target Version: 4.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	volume of water
RT	1.00000	dilution factor

Cpnd Variables Local Compound Variable

	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
[illegible]	96	3.523	3.517	(1.000)	354716	125.000	
[illegible]	117	5.069	5.069	(1.000)	272697	125.000	
[illegible]	152	5.907	5.912	(1.000)	146580	125.000	
[illegible]	113	2.739	2.739	(0.777)	94720	121.723	4.9
[illegible]	65	3.267	3.272	(0.927)	63302	121.384	4.9
[illegible]	98	4.437	4.437	(0.875)	334950	123.020	4.9
[illegible]	95	5.515	5.515	(0.934)	126255	128.573	5.1
[illegible]	85	Compound Not Detected.					
[illegible]	50	Compound Not Detected.					
[illegible]	62	Compound Not Detected.					
[illegible]	94	Compound Not Detected.					
[illegible]	64	Compound Not Detected.					
[illegible]	101	Compound Not Detected.					
[illegible]	96	Compound Not Detected.					
[illegible]	43	Compound Not Detected.					
[illegible]fluo	85	Compound Not Detected.					

mmt 9-29-5

Data File: /chem/5973hp61.i/DF050929A61.b/81062RA61_7829.d
Report Date: 29-Sep-2005 08:20

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
21 Carbon disulfide	76	Compound Not Detected.					
163 Methyl acetate	43	Compound Not Detected.					
24 Methylene Chloride	84	1.503	1.509	(0.427)	3810	4.47407	0.18(a)
27 trans-1,2-Dichloroethene	96	Compound Not Detected.					
28 Methyl-tert-butyl ether	73	Compound Not Detected.					
30 1,1-Dichloroethane	63	Compound Not Detected.					
34 cis-1,2-Dichloroethene	96	Compound Not Detected.					
37 2-butanone	43	Compound Not Detected.					
42 Chloroform	83	Compound Not Detected.					
43 1,1,1-Trichloroethane	97	Compound Not Detected.					
44 Cyclohexane	84	Compound Not Detected.					
48 Carbon Tetrachloride	117	Compound Not Detected.					
49 1,2-Dichloroethane	62	Compound Not Detected.					
51 Benzene	78	Compound Not Detected.					
53 Trichloroethene	130	Compound Not Detected.					
54 Methylcyclohexane	83	Compound Not Detected.					
55 1,2-Dichloropropane	63	Compound Not Detected.					
59 Bromodichloromethane	83	Compound Not Detected.					
61 cis-1,3-Dichloropropene	75	Compound Not Detected.					
62 4-Methyl-2-pentanone	43	Compound Not Detected.					
63 Toluene	92	Compound Not Detected.					
64 trans-1,3-Dichloropropene	75	Compound Not Detected.					
65 1,1,2-Trichloroethane	97	Compound Not Detected.					
68 Tetrachloroethene	164	Compound Not Detected.					
69 2-hexanone	43	Compound Not Detected.					
70 Dibromochloromethane	129	Compound Not Detected.					
71 1,2-Dibromoethane	107	Compound Not Detected.					
72 Chlorobenzene	112	Compound Not Detected.					
75 Ethylbenzene	106	Compound Not Detected.					
76 m,p-Xylene	106	Compound Not Detected.					
77 o-Xylene	106	Compound Not Detected.					
78 Styrene	104	Compound Not Detected.					
79 Bromoform	173	Compound Not Detected.					
81 Isopropyl Benzene	105	Compound Not Detected.					
82 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
94 1,3-Dichlorobenzene	146	Compound Not Detected.					
96 1,4-Dichlorobenzene	146	Compound Not Detected.					
98 1,2-Dichlorobenzene	146	Compound Not Detected.					
101 1,2-Dibromo-3-Chloropropane	75	Compound Not Detected.					
102 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
M 107 Xylene (total)	106	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

Data File: /chem/5973hp61.i/DF050929A61.b/81062RA61_7829.d

Date : 29-SEP-2005 15:20

Client ID: VBLKDJ

Instrument: 5973hp61.i

Sample Info: 81062:2323

Purge Volume: 25.0

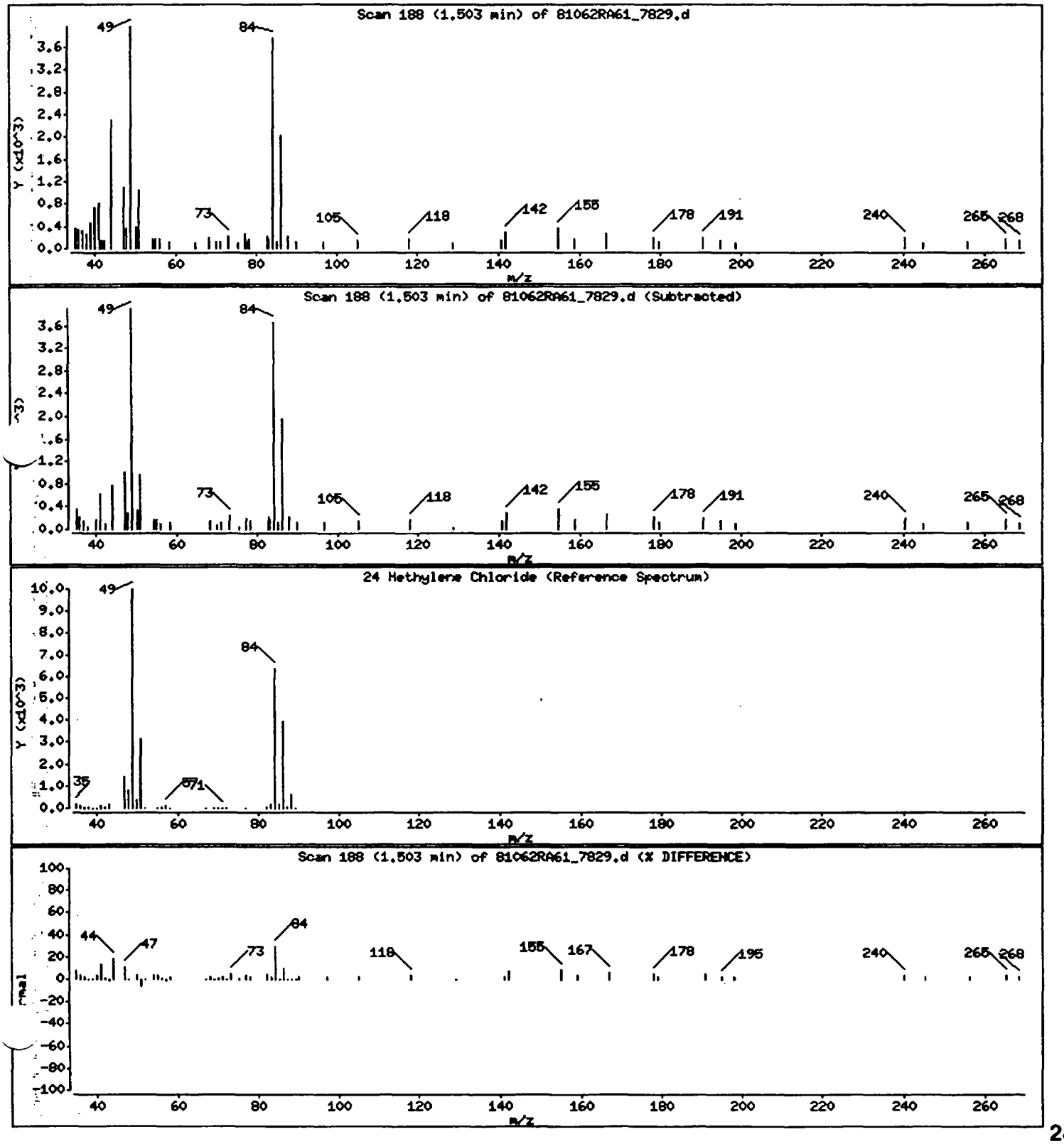
Operator: 2323

Column phase: RTX-VMS

Column diameter: 0.18

24 Methylene Chloride

Concentration: 0.18 ug/L



Data File: /chem/5973hp61.i/DF050929A61.b/81062RA61_7829.d
Report Date: 29-Sep-2005 08:20

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5973hp61.i/DF050929A61.b/81062RA61_7829.d
Lab Smp Id: 81062 Client Smp ID: VBLKDJ
Inj Date : 29-SEP-2005 15:20
Operator : 2323 Inst ID: 5973hp61.i
Smp Info : 81062:2323
Misc Info : 61
Comment :
Method : /chem/5973hp61.i/DF050929A61.b/W8260-B-25MLv9.m
Meth Date : 29-Sep-2005 06:12 harris Quant Type: ISTD
Cal Date : 27-SEP-2005 20:02 Cal File: CZ050927B61.d
Als bottle: 4 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TCL4.sub
Target Version: 3.50

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

c. Laboratory Control Sample Data

- Tabulated Results (Form I VOA)

- Reconstructed Ion Chromatogram and quantitation report

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VCVLCS

[illegible] CHEM Method: 8260B

[illegible] Case No.: SAS No.: SDG No.: 7829

[illegible] (water) WATER Lab Sample ID: 80886

Sample [illegible] 25 (g/ml) ML Lab File ID: 80886B61_7829

Level [illegible] (low/med) LOW Date Received: _____

% Moisture not dec. _____ Date Analyzed: 09/27/05

[illegible] RTX VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
[illegible]	Dichlorodifluoromethane	3.5	
[illegible]	Chloromethane	4.3	
[illegible]	Vinyl Chloride	3.7	
[illegible]	Bromomethane	3.5	
[illegible]	Chloroethane	3.6	
[illegible]	Trichlorofluoromethane	3.9	
[illegible]	1,1-Dichloroethene	3.8	
[illegible]	Carbon disulfide	3.9	
[illegible]	1,1,2-trichloro-1,2,2-triflu	3.6	
[illegible]	Acetone	22	
[illegible]	Methyl acetate	5.1	
[illegible]	Methylene Chloride	4.5	
[illegible]	trans-1,2-Dichloroethene	4.1	
[illegible]	Methyl-tert-butyl ether	5.1	
[illegible]	1,1-Dichloroethane	4.4	
[illegible]	cis-1,2-Dichloroethene	4.4	
[illegible]	2-butanone	25	
[illegible]	Chloroform	4.5	
[illegible]	1,1,1-Trichloroethane	4.3	
[illegible]	Carbon Tetrachloride	4.4	
[illegible]	Benzene	4.4	
[illegible]	1,2-Dichloroethane	4.7	
[illegible]	Trichloroethene	3.9	
[illegible]	1,2-Dichloropropane	4.6	
[illegible]	Bromodichloromethane	4.5	
[illegible]	cis-1,3-Dichloropropene	4.7	
[illegible]	4-Methyl-2-pentanone	26	
[illegible]	Toluene	4.2	
[illegible]	trans-1,3-Dichloropropene	4.7	
[illegible]	1,1,2-Trichloroethane	4.6	
[illegible]	Tetrachloroethene	3.9	
[illegible]	2-hexanone	25	
[illegible]	Dibromochloromethane	4.8	

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VCVLCS

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 80886

Sample wt/vol: 25 (g/ml) ML Lab File ID: 80886B61_7829

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

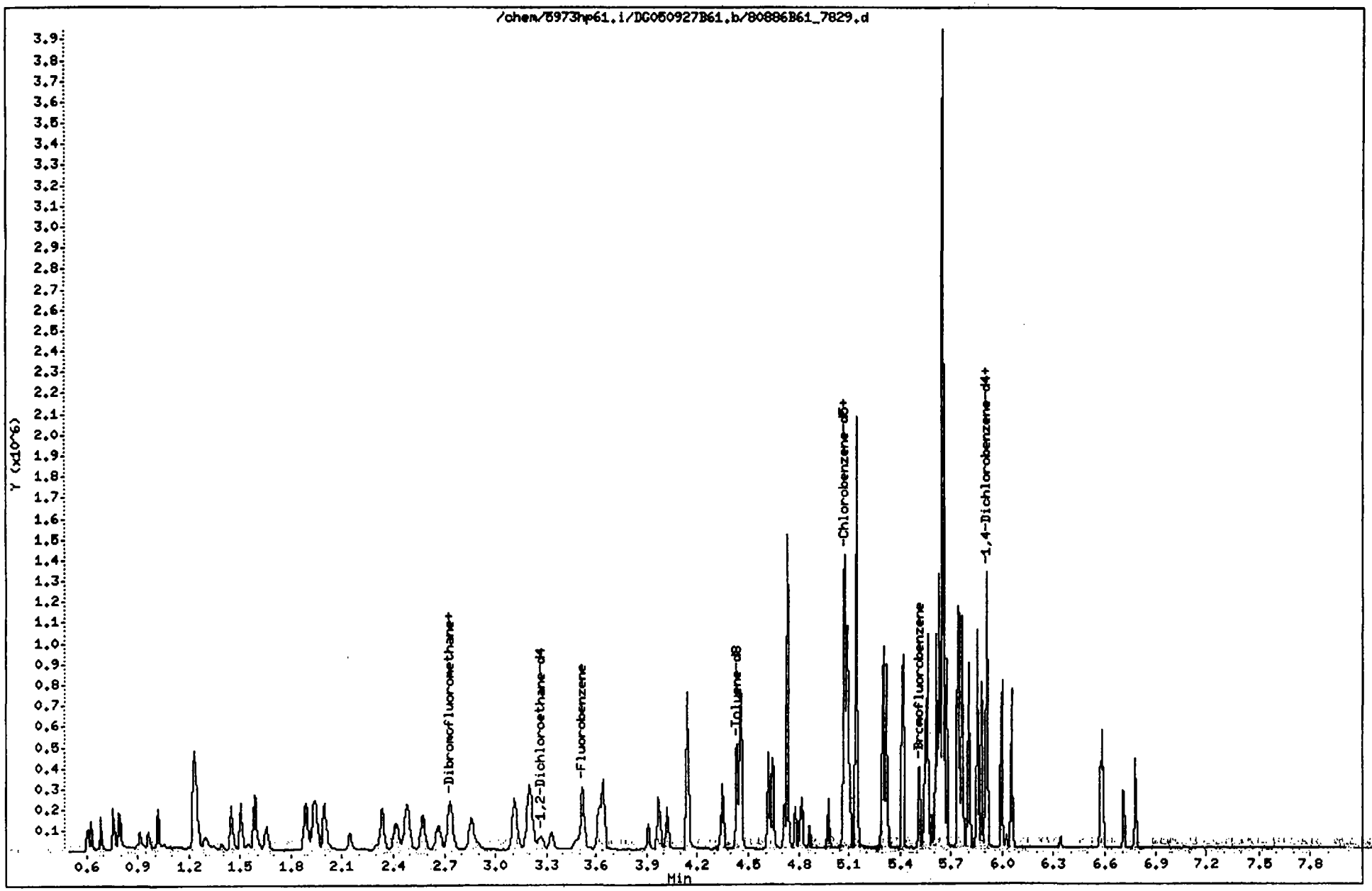
% Moisture: not dec. _____ Date Analyzed: 09/27/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
106-93-4	1,2-Dibromoethane	4.6	
108-90-7	Chlorobenzene	4.3	
100-41-4	Ethylbenzene	4.2	
108-38-3	m,p-Xylene	8.6	
95-47-6	o-Xylene	4.5	
100-42-5	Styrene	4.5	
75-25-2	Bromoform	5.0	
98-82-8	Isopropyl Benzene	4.2	
79-34-5	1,1,2,2-Tetrachloroethane	4.5	
541-73-1	1,3-Dichlorobenzene	4.0	
106-46-7	1,4-Dichlorobenzene	4.1	
95-50-1	1,2-Dichlorobenzene	4.2	
96-12-8	1,2-Dibromo-3-Chloropropane	4.7	
120-82-1	1,2,4-Trichlorobenzene	3.2	B
1330-20-7	Xylene (total)	14	
110-82-7	Cyclohexane	4.1	
108-87-2	Methylcyclohexane	3.6	

Data File: /chem/5973hp61.i/DC050927B61.b/80886B61_7829.d
Date : 27-SEP-2005 22:25
Client ID: VCVLCS
Instrument: 5973hp61.i
Sample Info: 80820;2323
Purge Volume: 25.0
Operator: 2323
Column phase: RTX-VMS
Column diameter: 0.18



Data File: /chem/5973hp61.i/DG050927B61.b/80886B61_7825.d
Report Date: 28-Sep-2005 03:01

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5973hp61.i/DG050927B61.b/80886B61_7825.d
Lab Smp Id: 80886 Client Smp ID: VCVLCS
Inj Date : 27-SEP-2005 22:25
Operator : 2323 Inst ID: 5973hp61.i
Smp Info : 80820:2323
Misc Info : 61
Comment :
Method : /chem/5973hp61.i/DG050927B61.b/W8260-B-25MLv9.m
Meth Date : 28-Sep-2005 02:50 fertile Quant Type: ISTD
Cal Date : 27-SEP-2005 20:02 Cal File: CZ050927B61.d
Als bottle: 34 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TCL4.sub
Target Version: 3.50
Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	volume of water
DF	1.00000	dilution factor

Cpnd Variable Local Compound Variable

			QUANT SIG					CONCENTRATIONS ON-COLUMN	FINAL
	Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ug/L)
*	1	Fluorobenzene	96	3.517	3.517	(1.000)	221126	125.000	
*	2	Chlorobenzene-d5	117	5.069	5.069	(1.000)	164362	125.000	
*	3	1,4-Dichlorobenzene-d4	152	5.902	5.907	(1.000)	92265	125.000	
$	4	Dibromofluoromethane	113	2.739	2.739	(0.779)	54379	112.099	4.5
$	5	1,2-Dichloroethane-d4	65	3.267	3.267	(0.929)	36210	111.382	4.5
$	6	Toluene-d8	98	4.437	4.437	(0.875)	175925	107.202	4.3
$	7	Bromofluorobenzene	95	5.510	5.515	(0.934)	61222	99.0484	4.0
	8	Dichlorodifluoromethane	85	0.687	0.686	(0.195)	60971	88.7165	3.5
	9	Chloromethane	50	0.757	0.757	(0.215)	112328	108.244	4.3
	10	Vinyl Chloride	62	0.790	0.790	(0.225)	58030	93.3161	3.7
	11	Bromomethane	94	0.915	0.915	(0.260)	29227	88.7160	3.5
	12	Chloroethane	64	0.964	0.964	(0.274)	27023	91.0210	3.6
	13	Trichlorofluoromethane	101	1.019	1.018	(0.290)	77398	97.0211	3.9
	16	1,1-Dichloroethene	96	1.225	1.231	(0.348)	50200	95.4250	3.8
	18	Acetone	43	1.547	1.541	(0.440)	30674	544.640	22

Data File: /chem/5973hp61.i/DG050927B61.b/80886B61_7825.d
Report Date: 28-Sep-2005 03:01

	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
trifluo	85	1.247	1.247	(0.355)	19348	89.8710	3.6
	76	1.236	1.242	(0.352)	158406	98.7432	3.9
	43	1.607	1.606	(0.457)	19842	128.222	5.1
	84	1.503	1.503	(0.427)	60046	113.110	4.5
	96	1.590	1.590	(0.452)	66063	101.452	4.1
	73	1.656	1.655	(0.471)	83489	126.508	5.1
	63	1.949	1.949	(0.554)	122207	109.439	4.4
	96	2.336	2.336	(0.664)	72187	109.871	4.4
	43	2.897	2.886	(0.824)	46663	626.104	25
	83	2.575	2.575	(0.732)	129527	112.658	4.5
	97	2.733	2.739	(0.777)	113032	106.419	4.3
	84	2.472	2.477	(0.703)	66627	103.578	4.1
	117	2.668	2.668	(0.759)	81619	110.430	4.4
	62	3.338	3.332	(0.949)	58331	117.169	4.7
	78	3.114	3.114	(0.885)	249305	110.206	4.4
	130	3.642	3.642	(1.036)	81723	98.0856	3.9
	83	3.621	3.620	(1.029)	65199	89.4300	3.6
	63	3.969	3.969	(1.128)	57568	113.839	4.6
	83	4.023	4.023	(1.144)	72372	113.026	4.5
	75	4.350	4.350	(1.237)	78021	117.715	4.7
	43	4.644	4.638	(0.916)	109949	650.442	26
	92	4.459	4.459	(0.880)	159560	105.946	4.2
ygene	75	4.649	4.649	(0.917)	53261	117.584	4.7
	97	4.715	4.715	(0.930)	33812	113.896	4.6
	164	4.622	4.622	(0.912)	57990	97.0369	3.9
	43	4.976	4.976	(0.982)	75329	622.362	25
	129	4.780	4.780	(0.943)	48872	119.404	4.8
	107	4.867	4.867	(0.960)	36391	114.750	4.6
	112	5.074	5.074	(1.001)	182480	107.840	4.3
	106	5.090	5.090	(1.004)	98314	104.679	4.2
	106	5.145	5.145	(1.015)	249457	214.195	8.6
	106	5.303	5.303	(1.046)	123872	112.592	4.5
	104	5.319	5.319	(1.049)	178551	111.978	4.5
	173	5.324	5.330	(1.050)	25580	123.999	5.0
	105	5.417	5.417	(1.069)	300241	104.232	4.2
ne	83	5.586	5.591	(0.946)	34792	112.656	4.5
	146	5.874	5.880	(0.995)	158427	100.715	4.0
	146	5.907	5.912	(1.001)	157204	102.070	4.1
	146	6.054	6.059	(1.026)	134134	103.939	4.2
ropane	75	6.342	6.342	(1.075)	5997	116.260	4.7
ne	180	6.587	6.593	(1.116)	74273	79.2736	3.2
	106				373329	339.334	14

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VEDLCS

Lab Name: COMPUCHEM Method: 8260B

Lab Code: EMPTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 81182

Sample wt/vol: 25 (g/ml) ML Lab File ID: 81182B61_7829

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

% Moisture: not dec. _____ Date Analyzed: 09/28/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	4.8	
74-87-3	Chloromethane	4.2	
75-01-4	Vinyl Chloride	4.6	
74-83-9	Bromomethane	4.1	
75-00-3	Chloroethane	3.9	
75-69-4	Trichlorofluoromethane	4.6	
75-35-4	1,1-Dichloroethene	4.6	
75-15-0	Carbon disulfide	4.8	
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.2	
67-64-1	Acetone	18	B
79-20-9	Methyl acetate	4.0	
75-09-2	Methylene Chloride	4.6	
156-60-5	trans-1,2-Dichloroethene	4.8	
1634-04-4	Methyl-tert-butyl ether	4.6	
75-34-3	1,1-Dichloroethane	4.9	
156-59-2	cis-1,2-Dichloroethene	4.6	
78-93-3	2-butanone	20	
67-66-3	Chloroform	4.8	
71-55-6	1,1,1-Trichloroethane	4.9	
56-23-5	Carbon Tetrachloride	4.7	
71-43-2	Benzene	4.6	
107-06-2	1,2-Dichloroethane	4.7	
79-01-6	Trichloroethene	4.5	
78-87-5	1,2-Dichloropropane	4.8	
75-27-4	Bromodichloromethane	4.7	
10061-01-5	cis-1,3-Dichloropropene	4.5	
108-10-1	4-Methyl-2-pentanone	21	
108-88-3	Toluene	4.5	
10061-02-6	trans-1,3-Dichloropropene	4.8	
79-00-5	1,1,2-Trichloroethane	4.4	
127-18-4	Tetrachloroethene	4.5	
591-78-6	2-hexanone	21	
124-48-1	Dibromochloromethane	4.7	

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VEDLCS

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 81182

Sample wt/vol: 25 (g/ml) ML Lab File ID: 81182B61_7829

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

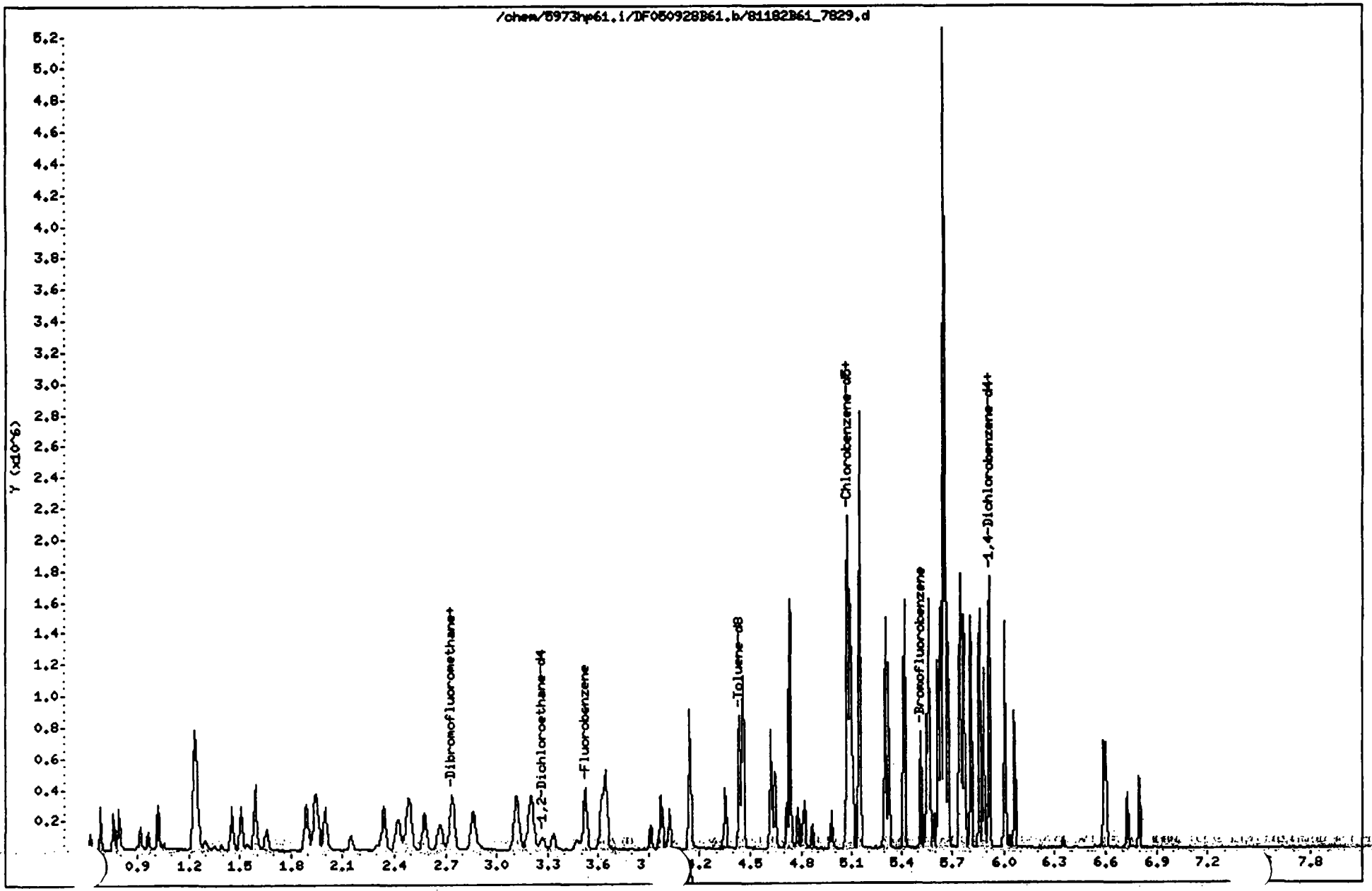
% Moisture: not dec. _____ Date Analyzed: 09/28/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
106-93-4	1,2-Dibromoethane	4.4	
108-90-7	Chlorobenzene	4.5	
100-41-4	Ethylbenzene	4.6	
108-38-3	m,p-Xylene	9.1	
95-47-6	o-Xylene	4.6	
100-42-5	Styrene	4.5	
75-25-2	Bromoform	4.8	
98-82-8	Isopropyl Benzene	4.7	
79-34-5	1,1,2,2-Tetrachloroethane	4.3	
541-73-1	1,3-Dichlorobenzene	4.3	
106-46-7	1,4-Dichlorobenzene	4.3	
95-50-1	1,2-Dichlorobenzene	4.3	
96-12-8	1,2-Dibromo-3-Chloropropane	4.0	
120-82-1	1,2,4-Trichlorobenzene	3.3	B
1330-20-7	Xylene (total)	14	
110-82-7	Cyclohexane	5.0	
108-87-2	Methylcyclohexane	5.0	

Data File: /chem/5973hp61.i/DF050928B61.b/81182B61_7829.d
Date : 28-SEP-2005 18:13
Client ID: VEDLCS
Instrument: 5973hp61.i
Sample Info:
Purge Volume: 25.0
Operator: 2323
Column phase: RTX-VMS
Column diameter: 0.18



Data File: /chem/5973hp61.i/DF050928B61.b/81182B61_7825.d 9
Report Date: 29-Sep-2005 01:51

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5973hp61.i/DF050928B61.b/81182B61_7825.d 9 SM 10/05/05
Lab Smp Id: 81182 Client Smp ID: VEDLCS
Inj Date : 28-SEP-2005 18:13
Operator : 2323 Inst ID: 5973hp61.i
Smp Info :
Misc Info :
Comment :
Method : /chem/5973hp61.i/DF050928B61.b/W8260-B-25MLv9.m
Meth Date : 29-Sep-2005 00:48 fertile Quant Type: ISTD
Cal Date : 27-SEP-2005 20:02 Cal File: CZ050927B61.d
Als bottle: 8 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TCL4.sub
Target Version: 3.50
Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	volume of water
DF	1.00000	dilution factor

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
*	1 Fluorobenzene	96	3.523	3.517	(1.000)	289212	125.000	
*	2 Chlorobenzene-d5	117	5.069	5.069	(1.000)	219660	125.000	
*	3 1,4-Dichlorobenzene-d4	152	5.907	5.901	(1.000)	118670	125.000	
$	4 Dibromofluoromethane	113	2.739	2.733	(0.777)	78736	124.099	5.0
$	5 1,2-Dichloroethane-d4	65	3.272	3.267	(0.929)	49770	117.052	4.7
$	6 Toluene-d8	98	4.437	4.437	(0.875)	280944	128.098	5.1
$	7 Bromofluorobenzene	95	5.515	5.510	(0.934)	103143	129.741	5.2
	8 Dichlorodifluoromethane	85	0.686	0.687	(0.195)	108258	120.438	4.8
	9 Chloromethane	50	0.757	0.757	(0.215)	142290	104.837	4.2
	10 Vinyl Chloride	62	0.790	0.790	(0.224)	93690	115.192	4.6
	11 Bromomethane	94	0.915	0.915	(0.260)	44341	102.907	4.1
	12 Chloroethane	64	0.964	0.964	(0.274)	37403	96.3248	3.9
	13 Trichlorofluoromethane	101	1.018	1.019	(0.289)	120184	115.188	4.6
	16 1,1-Dichloroethene	96	1.231	1.231	(0.349)	78506	114.100	4.6
	18 Acetone	43	1.547	1.536	(0.439)	33188	450.551	18

Data File: /chem/5973hp61.i/DF050928B61.b/81182B61_782[illegible].d 9 SM 10/05/05
Report Date: 29-Sep-2005 01:51

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
20	1,1,2-trichloro-1,2,2-trifluo	85	1.247	1.247	(0.354)	36386	129.223	5.2
21	Carbon disulfide	76	1.242	1.242	(0.352)	252800	120.486	4.8
163	Methyl acetate	43	1.612	1.606	(0.458)	20438	100.981	4.0
24	Methylene Chloride	84	1.508	1.508	(0.428)	79281	114.186	4.6
27	trans-1,2-Dichloroethene	96	1.590	1.590	(0.451)	102107	119.890	4.8
28	Methyl-tert-butyl ether	73	1.655	1.655	(0.470)	99384	115.141	4.6
30	1,1-Dichloroethane	63	1.949	1.949	(0.553)	177091	121.253	4.9
34	cis-1,2-Dichloroethene	96	2.336	2.336	(0.663)	99084	115.305	4.6
37	2-butanone	43	2.891	2.880	(0.821)	48900	501.656	20
42	Chloroform	83	2.575	2.570	(0.731)	179535	119.392	4.8
43	1,1,1-Trichloroethane	97	2.739	2.733	(0.777)	169298	121.869	4.9
44	Cyclohexane	84	2.477	2.472	(0.703)	105719	125.659	5.0
48	Carbon Tetrachloride	117	2.668	2.668	(0.757)	113886	117.812	4.7
49	1,2-Dichloroethane	62	3.337	3.332	(0.947)	75885	116.545	4.7
51	Benzene	78	3.120	3.114	(0.886)	339182	114.638	4.6
53	Trichloroethene	130	3.642	3.642	(1.034)	122107	112.053	4.5
54	Methylcyclohexane	83	3.621	3.621	(1.028)	118152	123.910	5.0
55	1,2-Dichloropropane	63	3.974	3.969	(1.128)	78569	118.791	4.8
59	Bromodichloromethane	83	4.023	4.023	(1.142)	99337	118.616	4.7
61	cis-1,3-Dichloropropene	75	4.350	4.350	(1.235)	98318	113.417	4.5
62	4-Methyl-2-pentanone	43	4.644	4.639	(0.916)	121389	537.337	21
63	Toluene	92	4.459	4.459	(0.880)	227961	113.259	4.5
64	trans-1,3-Dichloropropene	75	4.649	4.649	(0.917)	72498	119.761	4.8
	1,1,2-Trichloroethane	97	4.715	4.709	(0.930)	43781	110.350	4.4
	Tetrachloroethene	164	4.622	4.622	(0.912)	89978	112.660	4.5
69	2-hexanone	43	4.976	4.976	(0.982)	83687	517.356	21
70	Dibromochloromethane	129	4.780	4.780	(0.943)	63608	116.284	4.7
71	1,2-Dibromoethane	107	4.867	4.862	(0.960)	47093	111.113	4.4
72	Chlorobenzene	112	5.074	5.074	(1.001)	254762	112.655	4.5
75	Ethylbenzene	106	5.090	5.090	(1.004)	144411	115.052	4.6
76	m,p-Xylene	106	5.145	5.145	(1.015)	355529	228.423	9.1
77	o-Xylene	106	5.303	5.303	(1.046)	169042	114.969	4.6
78	Styrene	104	5.324	5.319	(1.050)	240101	112.671	4.5
79	Bromoform	173	5.330	5.324	(1.052)	33201	120.426	4.8
81	Isopropyl Benzene	105	5.417	5.417	(1.069)	451631	117.318	4.7
82	1,1,2,2-Tetrachloroethane	83	5.591	5.586	(0.947)	42617	107.288	4.3
94	1,3-Dichlorobenzene	146	5.880	5.880	(0.995)	216941	107.227	4.3
96	1,4-Dichlorobenzene	146	5.912	5.907	(1.001)	213891	107.975	4.3
98	1,2-Dichlorobenzene	146	6.065	6.054	(1.027)	176991	106.632	4.3
101	1,2-Dibromo-3-Chloropropane	75	6.353	6.342	(1.076)	6574	99.0882	4.0
102	1,2,4-Trichlorobenzene	180	6.604	6.587	(1.118)	100196	83.1465	3.3
M 107	Xylene (total)	106				524571	356.772	14

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VDJLCS

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBERTY Case No.: SAS No.: SDG No.: 7829

Matrix: (Soil/Water) WATER Lab Sample ID: 81065

Sample wt/vol: 25 (g/ml) ML Lab File ID: 81065A61_7829

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

% Moisture: not dec. _____ Date Analyzed: 09/29/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

CAS NO	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
[illegible]	Dichlorodifluoromethane	5.3	
74-[illegible]	Chloromethane	4.9	
75-[illegible]	Vinyl Chloride	4.6	
74-[illegible]	Bromomethane	3.5	
[illegible]	Chloroethane	4.3	
[illegible]	Trichlorofluoromethane	5.1	
[illegible]	1,1-Dichloroethene	4.5	
75-15-0	Carbon disulfide	4.9	
[illegible]	1,1,2-trichloro-1,2,2-triflu	4.8	
[illegible]	Acetone	20	
79-20-[illegible]	Methyl acetate	5.0	
75-[illegible]	Methylene Chloride	5.0	B
156-60-5	trans-1,2-Dichloroethene	4.9	
[illegible]	Methyl-tert-butyl ether	4.9	
[illegible]	1,1-Dichloroethane	5.0	
[illegible]	cis-1,2-Dichloroethene	4.7	
78-93-[illegible]	2-butanone	23	
[illegible]	Chloroform	5.1	
[illegible]	1,1,1-Trichloroethane	5.1	
[illegible]	Carbon Tetrachloride	4.9	
[illegible]	Benzene	4.9	
[illegible]	1,2-Dichloroethane	5.0	
[illegible]	Trichloroethene	4.7	
78-[illegible]	1,2-Dichloropropane	4.8	
75-[illegible]	Bromodichloromethane	5.1	
10061-01-5	cis-1,3-Dichloropropene	5.0	
108-10-[illegible]	4-Methyl-2-pentanone	24	
108-[illegible]	Toluene	4.7	
10061-02-6	trans-1,3-Dichloropropene	5.1	
79-00-5	1,1,2-Trichloroethane	4.6	
127-18-[illegible]	Tetrachloroethene	4.7	
591-78-[illegible]	2-hexanone	23	
[illegible]	Dibromochloromethane	5.0	

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VDJLCS

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 81065

Sample wt/vol: 25 (g/ml) ML Lab File ID: 81065A61_7829

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

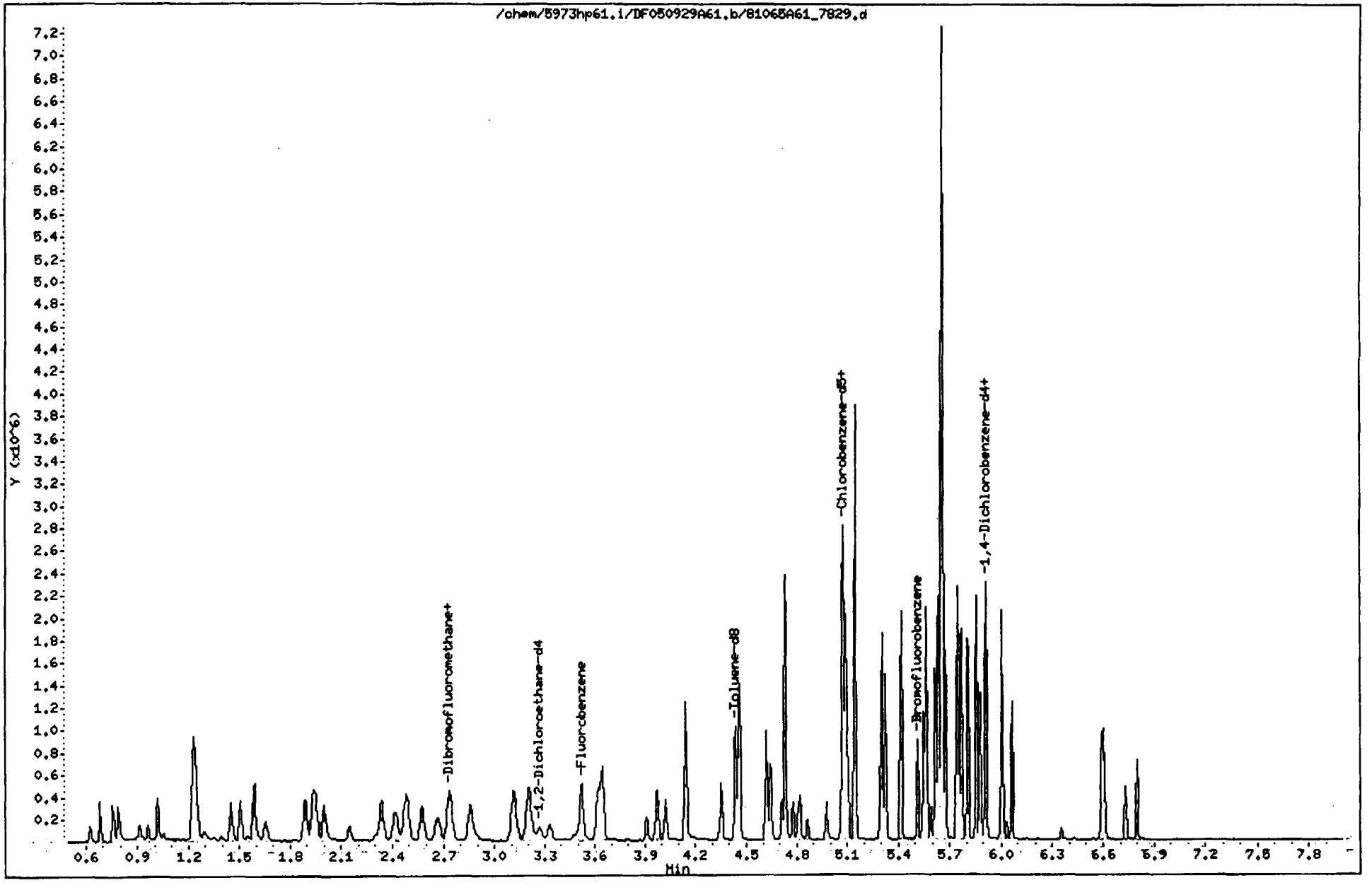
% Moisture: not dec. _____ Date Analyzed: 09/29/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
106-93-4	1,2-Dibromoethane	4.7	
108-90-7	Chlorobenzene	4.7	
100-41-4	Ethylbenzene	4.8	
108-38-3	m,p-Xylene	9.7	
95-47-6	o-Xylene	4.9	
100-42-5	Styrene	4.8	
75-25-2	Bromoform	5.0	
98-82-8	Isopropyl Benzene	4.9	
79-34-5	1,1,2,2-Tetrachloroethane	4.6	
541-73-1	1,3-Dichlorobenzene	4.6	
106-46-7	1,4-Dichlorobenzene	4.5	
95-50-1	1,2-Dichlorobenzene	4.5	
96-12-8	1,2-Dibromo-3-Chloropropane	4.3	
120-82-1	1,2,4-Trichlorobenzene	3.7	
1330-20-7	Xylene (total)	15	
110-82-7	Cyclohexane	5.0	
108-87-2	Methylcyclohexane	5.2	

Data File: /chem/5973hp61.i/DF050929A61.b/81065A61_7829.d
Date : 29-SEP-2005 15:43
Client ID: VDJLCS
Instrument: 5973hp61.i
Sample Info: 81065;2323
Purge Volume: 25.0
Operator: 2323
Column phase: RTX-VMS
Column diameter: 0.18



Data File: /chem/5973hp61.i/DF050929A61.b/81065A61_7829.d
Report Date: 29-Sep-2005 06:52

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5973hp61.i/DF050929A61.b/81065A61_7829.d
Lab Smp Id: 81065 Client Smp ID: VDJLCS
Inj Date : 29-SEP-2005 15:43
Operator : 2323 Inst ID: 5973hp61.i
Smp Info : 81065:2323
Misc Info : 61
Comment :
Method : /chem/5973hp61.i/DF050929A61.b/W8260-B-25MLv9.m
Meth Date : 29-Sep-2005 06:12 harris Quant Type: ISTD
Cal Date : 27-SEP-2005 20:02 Cal File: CZ050927B61.d
Als bottle: 5 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TCL4.sub
Target Version: 3.50
Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	volume of water
DF	1.00000	dilution factor

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
*	1 Fluorobenzene	96	3.523	3.517	(1.000)	351496	125.000	
*	2 Chlorobenzene-d5	117	5.069	5.069	(1.000)	269947	125.000	
*	3 1,4-Dichlorobenzene-d4	152	5.907	5.912	(1.000)	143677	125.000	
$	4 Dibromofluoromethane	113	2.739	2.739	(0.777)	98217	127.373	5.1
$	5 1,2-Dichloroethane-d4	65	3.267	3.272	(0.927)	66502	128.689	5.1
$	6 Toluene-d8	98	4.437	4.437	(0.875)	336589	124.881	5.0
$	7 Bromofluorobenzene	95	5.515	5.515	(0.934)	123206	128.003	5.1
	8 Dichlorodifluoromethane	85	0.686	0.687	(0.195)	143662	131.505	5.3
	9 Chloromethane	50	0.757	0.757	(0.215)	200815	121.740	4.9(M)
	10 Vinyl Chloride	62	0.790	0.790	(0.224)	112652	113.963	4.6
	11 Bromomethane	94	0.915	0.915	(0.260)	46359	88.5261	3.5
	12 Chloroethane	64	0.964	0.964	(0.274)	50344	106.678	4.3
	13 Trichlorofluoromethane	101	1.018	1.019	(0.289)	163257	128.744	5.1
	16 1,1-Dichloroethene	96	1.231	1.231	(0.349)	94761	113.320	4.5
	18 Acetone	43	1.552	1.541	(0.441)	44397	495.920	20

9.29.C

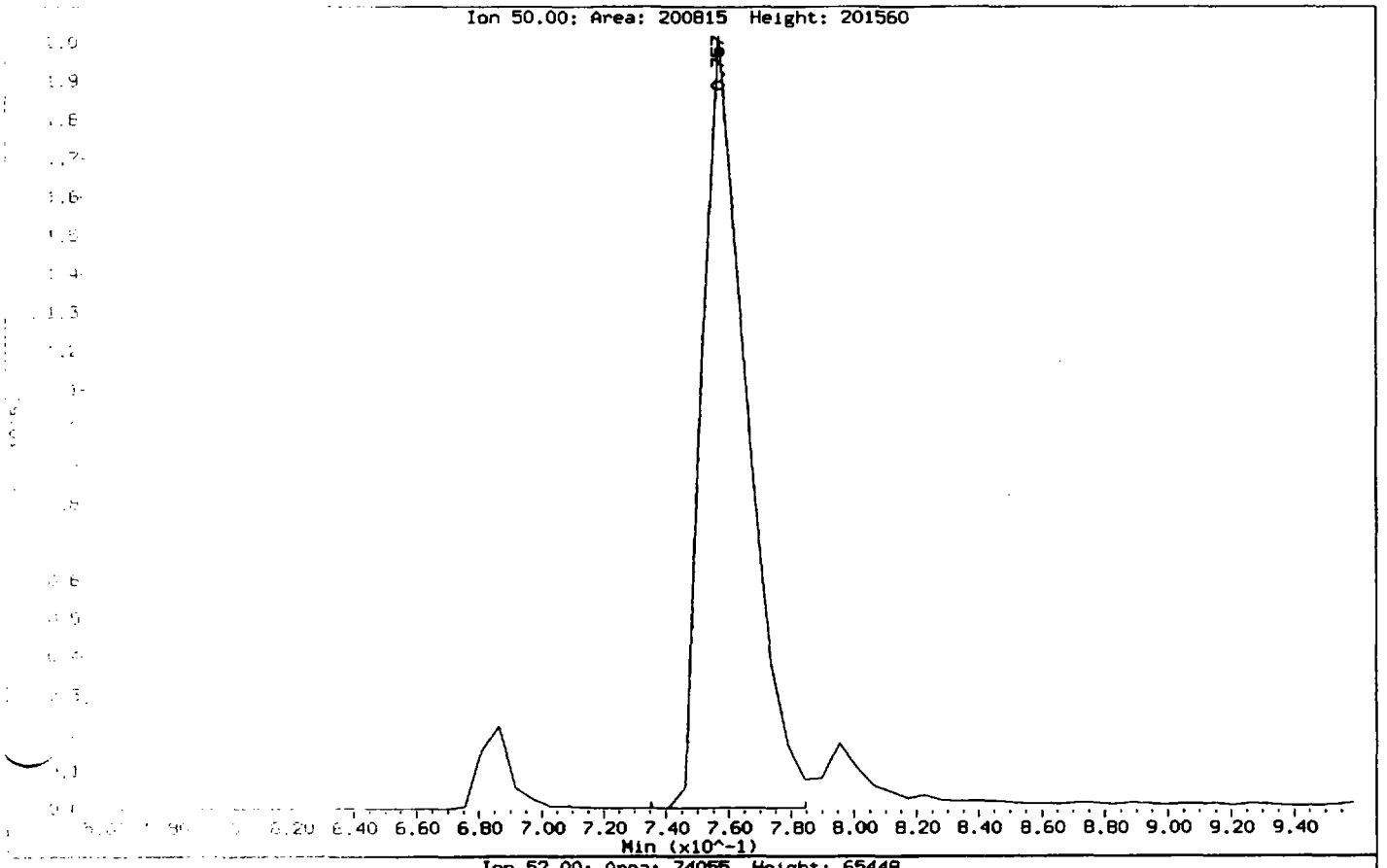
Data File: ...hem/5973hp61.i/DF050929A61.b/81065A61_7829.d
Report Date: 29-Sep-2005 06:52

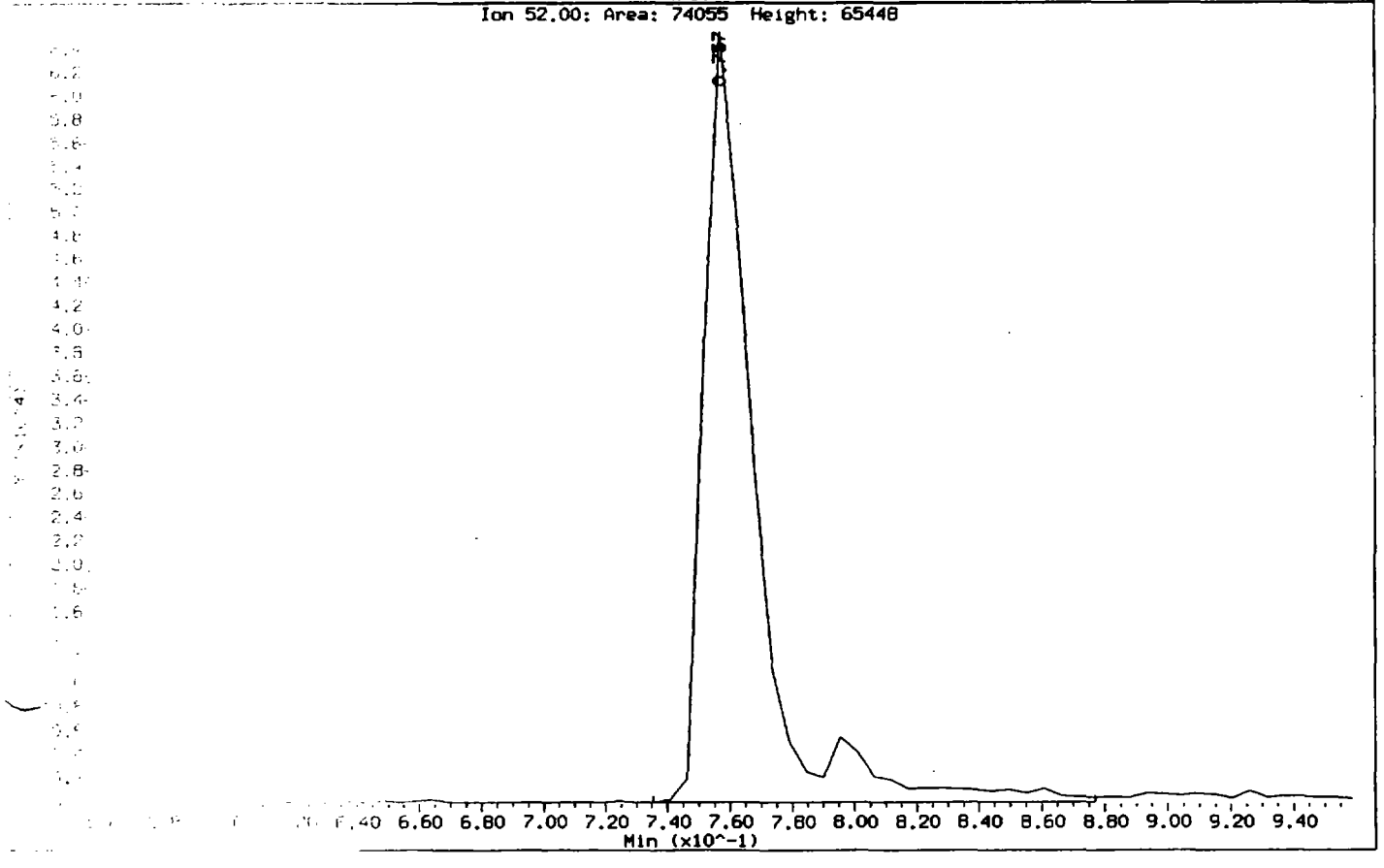
	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
...trifluo	85	1.247	1.247	(0.354)	41351	120.834	4.8
	76	1.242	1.242	(0.352)	310217	121.652	4.9
	43	1.612	1.607	(0.458)	30582	124.326	5.0
	84	1.508	1.509	(0.428)	105985	125.598	5.0
...ylene	96	1.590	1.590	(0.451)	127300	122.985	4.9
	73	1.655	1.656	(0.470)	127999	122.015	4.9
	63	1.949	1.949	(0.553)	223080	125.677	5.0
	96	2.336	2.336	(0.663)	123224	117.988	4.7
	43	2.891	2.886	(0.821)	68987	582.318	23
	83	2.575	2.575	(0.731)	231768	126.816	5.1
	97	2.739	2.739	(0.777)	214587	127.099	5.1
	84	2.477	2.477	(0.703)	128043	125.225	5.0
	117	2.668	2.663	(0.757)	142892	121.625	4.9
	62	3.332	3.332	(0.946)	99845	126.171	5.0
	78	3.114	3.120	(0.884)	440513	122.505	4.9
	130	3.642	3.642	(1.034)	154313	116.515	4.7
	83	3.621	3.621	(1.028)	150631	129.980	5.2
	63	3.974	3.969	(1.128)	95900	119.302	4.8
	83	4.023	4.023	(1.142)	128517	126.266	5.1
	75	4.350	4.350	(1.235)	131157	124.490	5.0
	43	4.644	4.639	(0.916)	163408	588.591	24
	92	4.459	4.459	(0.880)	292151	118.111	4.7
...ropene	75	4.649	4.649	(0.917)	94463	126.976	5.1
	97	4.715	4.715	(0.930)	55980	114.813	4.6
	164	4.622	4.622	(0.912)	116398	118.591	4.7
	43	4.976	4.976	(0.982)	112069	563.753	23
...ene	129	4.780	4.780	(0.943)	83294	123.907	5.0
	107	4.867	4.867	(0.960)	61194	117.487	4.7
	112	5.074	5.074	(1.001)	329456	118.546	4.7
	106	5.090	5.090	(1.004)	186578	120.956	4.8
	106	5.145	5.145	(1.015)	462745	241.924	9.7
...xylene	106	5.303	5.303	(1.046)	220942	122.275	4.9
	104	5.324	5.324	(1.050)	314451	120.073	4.8
	173	5.330	5.330	(1.052)	42671	125.943	5.0
	105	5.417	5.417	(1.069)	578014	122.178	4.9
...tane	83	5.591	5.591	(0.947)	55610	115.631	4.6
	146	5.885	5.885	(0.996)	281027	114.726	4.6
	146	5.912	5.918	(1.001)	266905	111.286	4.5
...benzene	146	6.065	6.065	(1.027)	228033	113.471	4.5
...dibromopropane	75	6.353	6.353	(1.076)	8541	106.330	4.3
...benzene	180	6.604	6.604	(1.118)	134192	91.9759	3.7
M ...	106				683687	378.370	15

QC Flag Legend

M - Compound response manually integrated.

050929A61.b/B1065A61_7829.d





d. Matrix Spike Data

- Tabulated Results (Form I VOA)

- Reconstructed Ion Chromatogram and quantitation report

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWPWB26MS

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 81068

Sample wt/vol: 25 (g/ml) ML Lab File ID: 81068RA61

Level: (low/med) LOW Date Received: 09/27/05

% Moisture: not dec. _____ Date Analyzed: 09/29/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	4.0	
75-15-0	Carbon disulfide	0.50	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	0.50	U
67-64-1	Acetone	2.5	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene Chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl-tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-butanone	2.5	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	4.4	
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	3.9	
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	2.5	U
108-88-3	Toluene	4.2	
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-hexanone	2.5	U
124-48-1	Dibromochloromethane	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWPWB26MS

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 81068

Sample wt/vol: 25 (g/ml) ML Lab File ID: 81068RA61

Level: (low/med) LOW Date Received: 09/27/05

% Moisture: not dec. _____ Date Analyzed: 09/29/05

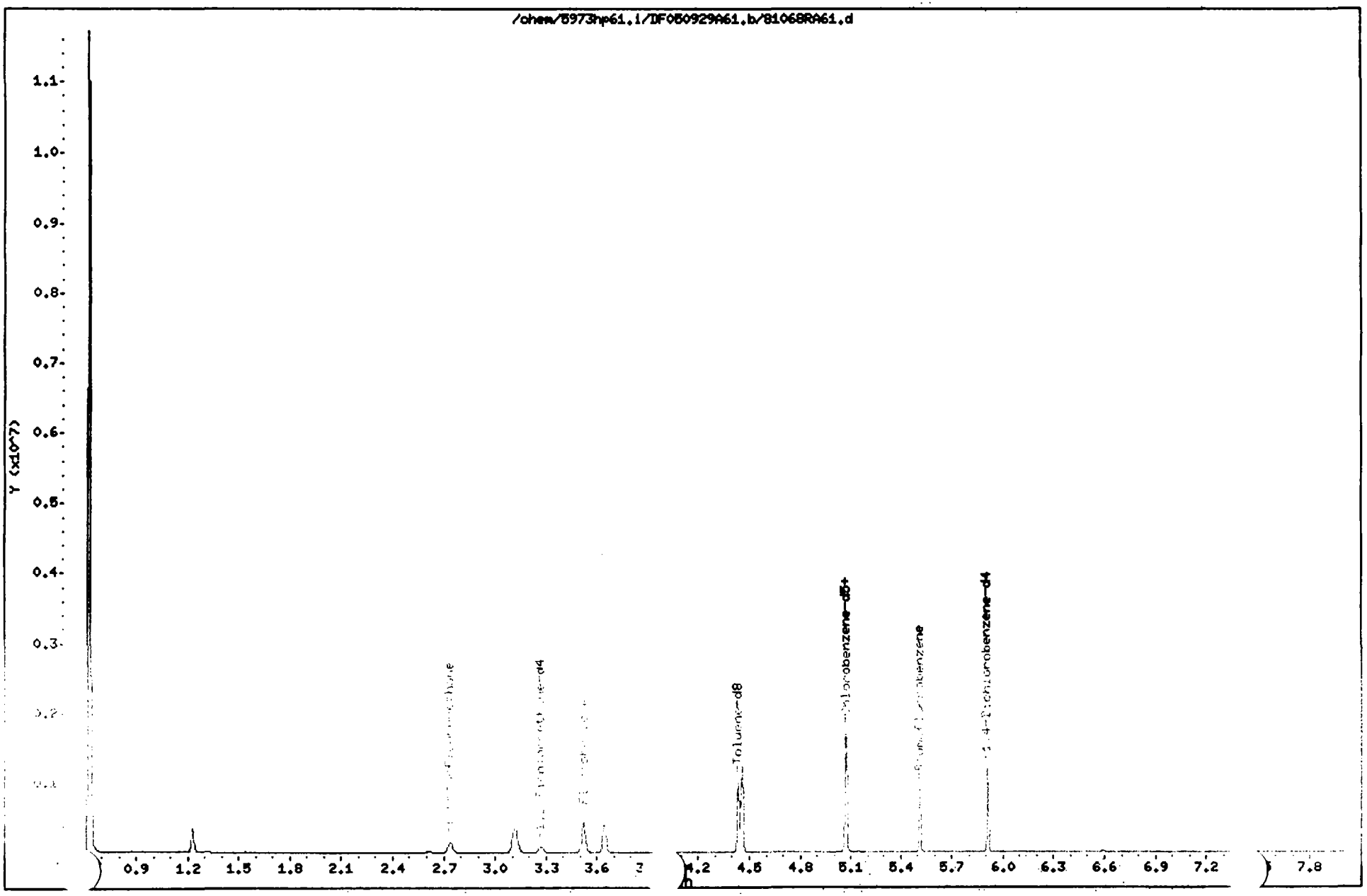
GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	4.1	
100-41-4	Ethylbenzene	0.50	U
108-38-3	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropyl Benzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-Chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
110-82-7	Cyclohexane	0.50	U
108-87-2	Methylcyclohexane	0.50	U

Data File: /chem/5973hp61.i/DF050929A61.b/81068RA61.d
Date : 29-SEP-2005 17:31
Client ID: ACSGWPWB26MS
Sample Info: 81068;2323
Purge Volume: 25.0
Column phase: RTX-VMS

Instrument: 5973hp61.i
Operator: 2323
Column diameter: 0.18



Data File: chem/5973hp61.i/DF050929A61.b/81068RA61.d
Report Date: [illegible]-Oct-2005 09:02

CompuChem

[illegible]46 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data File: [illegible]/5973hp61.i/DF050929A61.b/81068RA61.d
Lab Smp [illegible]
Inj Date: [illegible]-SEP-2005 17:31
Operator: [illegible]
Smp Info: [illegible]:2323
Misc Info: [illegible]
Comment:
Method: [illegible]/5973hp61.i/DF050929A61.b/W8260-B-25MLv9.m
Meth Date: [illegible] Sep-2005 23:15 fertile
Cal Date: [illegible] SEP-2005 20:02
Aux Bottle: [illegible]
[illegible]: [illegible]000
Integrator: HP RTE
Quant Version: [illegible].50
Processing Host: dante

Client Smp ID: ACSGWPWB26MS
Inst ID: 5973hp61.i
Quant Type: ISTD
Cal File: CZ050927B61.d
QC Sample: MS
Compound Sublist: TCL4.sub

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	[illegible]00000	Dilution Factor
Vo	25.00000	volume of water
DF	[illegible].00000	dilution factor

Cpnd Variable: Local Compound Variable

[illegible]	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
[illegible]	96	3.523	3.517	(1.000)	329301	125.000	
[illegible]	117	5.069	5.069	(1.000)	267201	125.000	
[illegible]	152	5.907	5.912	(1.000)	143801	125.000	
[illegible]	113	2.739	2.739	(0.777)	94871	131.326	5.3
[illegible]	65	3.267	3.272	(0.927)	63292	130.732	5.2
[illegible]	98	4.437	4.437	(0.875)	328330	123.069	4.9
[illegible]	95	5.515	5.515	(0.934)	119849	124.408	5.0
[illegible]	85	Compound Not Detected.					
[illegible]	50	Compound Not Detected.					
[illegible]	62	Compound Not Detected.					
[illegible]	94	Compound Not Detected.					
[illegible]	64	Compound Not Detected.					
[illegible]	101	Compound Not Detected.					
[illegible]	96	1.231	1.231	(0.349)	78117	99.7128	4.0
[illegible]	43	Compound Not Detected.					

SAP
10/03/05

Data File: /chem/5973hp61.i/DF050929A61.b/81068RA61.d
Report Date: 03-Oct-2005 09:02

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
20	1,1,2-trichloro-1,2,2-trifluo	85	Compound Not Detected.					
21	Carbon disulfide	76	Compound Not Detected.					
163	Methyl acetate	43	Compound Not Detected.					
24	Methylene Chloride	84	Compound Not Detected.					
27	trans-1,2-Dichloroethene	96	Compound Not Detected.					
28	Methyl-tert-butyl ether	73	Compound Not Detected.					
30	1,1-Dichloroethane	63	Compound Not Detected.					
34	cis-1,2-Dichloroethene	96	Compound Not Detected.					
37	2-butanone	43	Compound Not Detected.					
42	Chloroform	83	Compound Not Detected.					
43	1,1,1-Trichloroethane	97	Compound Not Detected.					
44	Cyclohexane	84	Compound Not Detected.					
48	Carbon Tetrachloride	117	Compound Not Detected.					
49	1,2-Dichloroethane	62	Compound Not Detected.					
51	Benzene	78	3.120	3.120	(0.886)	371363	110.235	4.4
53	Trichloroethene	130	3.642	3.642	(1.034)	119764	96.5237	3.9
54	Methylcyclohexane	83	Compound Not Detected.					
55	1,2-Dichloropropane	63	Compound Not Detected.					
59	Bromodichloromethane	83	Compound Not Detected.					
61	cis-1,3-Dichloropropene	75	Compound Not Detected.					
62	4-Methyl-2-pentanone	43	Compound Not Detected.					
63	Toluene	92	4.459	4.459	(0.880)	255648	104.416	4.2
64	trans-1,3-Dichloropropene	75	Compound Not Detected.					
5	1,1,2-Trichloroethane	97	Compound Not Detected.					
8	Tetrachloroethene	164	Compound Not Detected.					
69	2-hexanone	43	Compound Not Detected.					
70	Dibromochloromethane	129	Compound Not Detected.					
71	1,2-Dibromoethane	107	Compound Not Detected.					
72	Chlorobenzene	112	5.074	5.074	(1.001)	285047	103.621	4.1
75	Ethylbenzene	106	Compound Not Detected.					
76	m,p-Xylene	106	Compound Not Detected.					
77	o-Xylene	106	Compound Not Detected.					
78	Styrene	104	Compound Not Detected.					
79	Bromoform	173	Compound Not Detected.					
81	Isopropyl Benzene	105	Compound Not Detected.					
82	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
94	1,3-Dichlorobenzene	146	Compound Not Detected.					
96	1,4-Dichlorobenzene	146	Compound Not Detected.					
98	1,2-Dichlorobenzene	146	Compound Not Detected.					
101	1,2-Dibromo-3-Chloropropane	75	Compound Not Detected.					
102	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
M 107	Xylene (total)	106	Compound Not Detected.					

e. Matrix Spike Duplicate Data

- Tabulated Results (Form I VOA)

- Reconstructed Ion Chromatogram and quantitation report

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWPWB26MSD

ab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 81069

Sample wt/vol: 25 (g/ml) ML Lab File ID: 81069RA61

Level: (low/med) LOW Date Received: 09/27/05

% Moisture: not dec. _____ Date Analyzed: 09/29/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	5.4	
75-15-0	Carbon disulfide	0.50	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	0.50	U
67-64-1	Acetone	2.5	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene Chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl-tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.36	J
78-93-3	2-butanone	2.5	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	5.0	
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	4.4	
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	2.5	U
108-88-3	Toluene	5.2	
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-hexanone	2.5	U
124-48-1	Dibromochloromethane	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWPWB26MSD

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 81069

Sample wt/vol: 25 (g/ml) ML Lab File ID: 81069RA61

Level: (low/med) LOW Date Received: 09/27/05

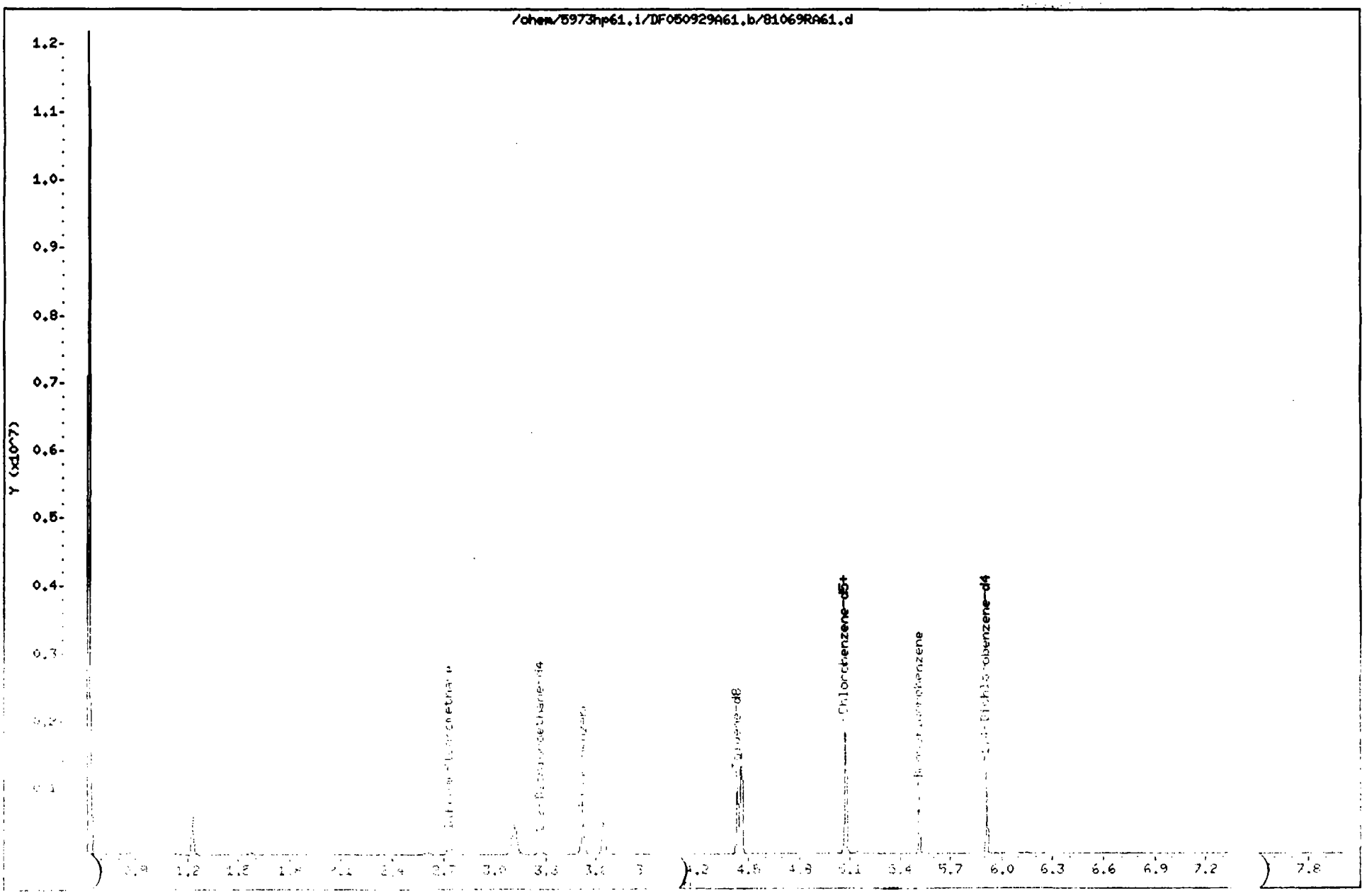
% Moisture: not dec. _____ Date Analyzed: 09/29/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	4.9	
100-41-4	Ethylbenzene	0.50	U
108-38-3	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropyl Benzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-Chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
110-82-7	Cyclohexane	0.50	U
108-87-2	Methylcyclohexane	0.50	U

Data File: /chem/5973hp61.i/DF050929A61.b/81069RA61.d
Date : 29-SEP-2005 17:54
Client ID: ACSGWPWB26MSD
Instrument: 5973hp61.i
Sample Info: 81069;2323
Purge Volume: 25.0
Operator: 2323
Column phase: RTX-VMS
Column diameter: 0.18



Data File: /chem/5973hp61.i/DF050929A61.b/81069RA61.d
Report Date: 03-Oct-2005 09:03

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5973hp61.i/DF050929A61.b/81069RA61.d
Lab Smp Id: 81069 Client Smp ID: ACSGWPWB26MSD
Inj Date : 29-SEP-2005 17:54
Operator : 2323 Inst ID: 5973hp61.i
Smp Info : 81069:2323
Misc Info : 61
Comment :
Method : /chem/5973hp61.i/DF050929A61.b/W8260-B-25MLv9.m
Meth Date : 29-Sep-2005 23:15 fertile Quant Type: ISTD
Cal Date : 27-SEP-2005 20:02 Cal File: CZ050927B61.d
Als bottle: 11 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TCL4.sub
Target Version: 3.50
Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	volume of water
DF	1.00000	dilution factor

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 Fluorobenzene	96	3.523	3.517	(1.000)	342584	125.000	
* 2 Chlorobenzene-d5	117	5.069	5.069	(1.000)	261475	125.000	
* 3 1,4-Dichlorobenzene-d4	152	5.907	5.912	(1.000)	137256	125.000	
$ 4 Dibromofluoromethane	113	2.739	2.739	(0.777)	79570	105.875	4.2
$ 5 1,2-Dichloroethane-d4	65	3.267	3.272	(0.927)	64718	128.494	5.1
$ 6 Toluene-d8	98	4.437	4.437	(0.875)	327808	125.564	5.0
$ 7 Bromofluorobenzene	95	5.515	5.515	(0.934)	120729	131.298	5.3
8 Dichlorodifluoromethane	85	Compound Not Detected.					
9 Chloromethane	50	Compound Not Detected.					
10 Vinyl Chloride	62	Compound Not Detected.					
11 Bromomethane	94	Compound Not Detected.					
12 Chloroethane	64	Compound Not Detected.					
13 Trichlorofluoromethane	101	Compound Not Detected.					
16 1,1-Dichloroethene	96	1.231	1.231	(0.349)	109862	134.797	5.4
18 Acetone	43	Compound Not Detected.					

BNF
10/03/05

Data File: /chem/5973hp61.i/DF050929A61.b/81069RA61.d
Report Date: 03-Oct-2005 09:03

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
20	1,1,2-trichloro-1,2,2-trifluo	85	Compound Not Detected.					
21	Carbon disulfide	76	Compound Not Detected.					
163	Methyl acetate	43	Compound Not Detected.					
24	Methylene Chloride	84	Compound Not Detected.					
27	trans-1,2-Dichloroethene	96	Compound Not Detected.					
28	Methyl-tert-butyl ether	73	Compound Not Detected.					
30	1,1-Dichloroethane	63	Compound Not Detected.					
34	cis-1,2-Dichloroethene	96	2.341	2.336	(0.665)	9273	9.10994	0.36(a)
37	2-butanone	43	Compound Not Detected.					
42	Chloroform	83	Compound Not Detected.					
43	1,1,1-Trichloroethane	97	Compound Not Detected.					
44	Cyclohexane	84	Compound Not Detected.					
48	Carbon Tetrachloride	117	Compound Not Detected.					
49	1,2-Dichloroethane	62	Compound Not Detected.					
51	Benzene	78	3.114	3.120	(0.884)	439163	125.306	5.0
53	Trichloroethene	130	3.642	3.642	(1.034)	142707	110.555	4.4
54	Methylcyclohexane	83	Compound Not Detected.					
55	1,2-Dichloropropane	63	Compound Not Detected.					
59	Bromodichloromethane	83	Compound Not Detected.					
61	cis-1,3-Dichloropropene	75	Compound Not Detected.					
62	4-Methyl-2-pentanone	43	Compound Not Detected.					
63	Toluene	92	4.459	4.459	(0.880)	311444	129.990	5.2
64	trans-1,3-Dichloropropene	75	Compound Not Detected.					
65	1,1,2-Trichloroethane	97	Compound Not Detected.					
	Tetrachloroethene	164	Compound Not Detected.					
69	2-hexanone	43	Compound Not Detected.					
70	Dibromochloromethane	129	Compound Not Detected.					
71	1,2-Dibromoethane	107	Compound Not Detected.					
72	Chlorobenzene	112	5.074	5.074	(1.001)	330658	122.833	4.9
75	Ethylbenzene	106	Compound Not Detected.					
76	m,p-Xylene	106	Compound Not Detected.					
77	o-Xylene	106	Compound Not Detected.					
78	Styrene	104	Compound Not Detected.					
79	Bromoform	173	Compound Not Detected.					
81	Isopropyl Benzene	105	Compound Not Detected.					
82	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
94	1,3-Dichlorobenzene	146	Compound Not Detected.					
96	1,4-Dichlorobenzene	146	Compound Not Detected.					
98	1,2-Dichlorobenzene	146	Compound Not Detected.					
101	1,2-Dibromo-3-Chloropropane	75	Compound Not Detected.					
102	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
M 107	Xylene (total)	106	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

ACS-89
Data Validation Reports
LDC# 14146

Volatiles

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: ACS-89

Collection Date: September 23 through September 26, 2005

LDC Report Date: October 27, 2005

Matrix: Water

Parameters: Volatiles

Validation Level: EPA Level IV

Laboratory: CompuChem

Sample Delivery Group (SDG): 7829

Sample Identification

ACSGWPWA26
ACSGWPWDUP26
ACSGWPWB26
ACSGWPWT26
ACSGWPWC26
ACSGWPWTB26
ACSGWPWD26
ACSGWPWB26MS
ACSGWPWB26MSD

Introduction

This data review covers 8 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8260B for Volatiles.

The review follows the Remedial Design/Remedial Action PRP - Lead Project Quality Assurance Project Plan (November 2001, Rev. 0) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) as there are no current guidelines for the method stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified a P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section V.

Field duplicates are summarized in Section XVI.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

B Compound or analyte was positively detected in a sample and in an associated blank.

UB Compound or analyte is not detected at or above the indicated concentration due to blank contamination.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals. All ion abundance requirements were met.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 30.0% for all compounds with the following exceptions:

Date	Compound	%RSD	Associated Samples	Flag	A or P
9/27/05	1,2,4-Trichlorobenzene	45.206	All samples in SDG 7829	J (all detects) UJ (all non-detects)	A

Average relative response factors (RRF) for all compounds were within method criteria with the following exceptions:

Date	Compound	RRF (Limits)	Associated Samples	Flag	A or P
9/27/05	Acetone 2-Butanone	0.03184 (≥0.05) 0.04213 (≥0.05)	All samples in SDG 7829	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

All of the continuing calibration percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were less than or equal to 25.0% with the following exceptions:

Date	Compound	%RSD	Associated Samples	Flag	A or P
9/28/05	Methyl acetate Methyl-tert-butyl ether 1,2,4-Trichlorobenzene	43.41 57.29 33.25	ACSGWPWB26 ACSGWPWT26 ACSGWPWC26 ACSGWPWTB26 ACSGWPWD26 VBLKED	J (all detects) UJ (all non-detects)	A
9/29/05	Chloromethane Bromomethane Methyl acetate Methyl-tert-butyl ether 1,2,4-Trichlorobenzene	39.14 70.45 30.26 35.45 31.26	ACSGWPWB26MS ACSGWPWB26MSD VBLKDJ	J (all detects) UJ (all non-detects)	A

All of the continuing calibration RRF values for all compounds were within method criteria with the following exceptions:

Date	Compound	RRF (Limits)	Associated Samples	Flag	A or P
9/28/05	Acetone Methyl acetate 2-Butanone	0.034870 (≥0.05) 0.0495080 (≥0.05) 0.0323874 (≥0.05)	ACSGWPWB26 ACSGWPWT26 ACSGWPWC26 ACSGWPWTB26 ACSGWPWD26 VBLKED	J (all detects) UJ (all non-detects)	A
9/29/05	Acetone 2-Butanone	0.0294545(≥0.05) 0.0318718 (≥0.05)	ACSGWPWB26MS ACSGWPWB26MSD VBLKDJ	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A

V. Blanks

Method blanks were reviewed for each matrix as applicable. No volatile contaminants were found in the method blanks with the following exceptions:

Method Blank ID	Analysis Date	Compound TIC (RT in minutes)	Concentration	Associated Samples
VBLKCG	9/27/05	1,2,4-Trichlorobenzene	0.19 ug/L	ACSGWPWA26 ACSGWPWDUP26
VBLKED	9/27/05	1,2,4-Trichlorobenzene Acetone	0.11 ug/L 1.6 ug/L	ACSGWPWB26 ACSGWPWT26 ACSGWPWC26 ACSGWPWTB26 ACSGWPWD26

Sample concentrations were compared to concentrations detected in the method blanks. The sample concentrations were either not detected or were significantly greater (>10X for common contaminants, >5X for other contaminants) than the concentrations found in the associated method blanks with the following exceptions:

Sample	Compound TIC (RT in minutes)	Reported Concentration	Modified Final Concentration
ACSGWPWTB26	Acetone	2.1 ug/L	2.5UB ug/L

Sample ACSGWPWTB26 was identified as a trip blank. No volatile contaminants were found in this blank with the following exceptions:

Trip Blank ID	Sampling Date	Compound	Concentration	Associated Samples
ACSGWPWTB26	9/26/05	cis-1,2-Dichloroethene Acetone Ethylbenzene m,p-Xylenes Xylenes, total	0.23 ug/L 2.1 ug/L 0.12 ug/L 0.78 ug/L 0.82 ug/L	ACSGWPWB26 ACSGWPWT26 ACSGWPWC26 ACSGWPWD26

Sample concentrations were compared to concentrations detected in the field blanks. The sample concentrations were either not detected or were significantly greater (>10X for common contaminants, >5X for other contaminants) than the concentrations found in the associated field blanks with the following exceptions:

Sample	Compound	Reported Concentration	Modified Final Concentration
ACSGWPWB26	cis-1,2-Dichloroethene m,p-Xylenes Xylenes, total	0.38 ug/L 0.54 ug/L 0.57 ug/L	0.50UB ug/L 1.0UB ug/L 0.57UB ug/L

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Compound	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)	Flag	A or P
ACSGWPWB26MS/MSD (ACSGWPWB26)	1,1-Dichloroethene Benzene Toluene Chlorobenzene	- - - -	- - - -	30 (≤14) 13 (≤11) 22 (≤13) 17 (≤13)	J (all detects) UJ (all non-detects)	A

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

All target compound identifications were within validation criteria.

XII. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

XIII. Tentatively Identified Compounds (TICs)

All tentatively identified compounds were within validation criteria.

XIV. System Performance

The system performance was acceptable.

XV. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XVI. Field Duplicates

Samples ACSGWPWA26 and ACSGWPWDUP26 were identified as field duplicates. No volatiles were detected in any of the samples.

ACS-89
Volatiles - Data Qualification Summary - SDG 7829

SDG	Sample	Compound	Flag	A or P	Reason
7829	ACSGWPWA26 ACSGWPWDUP26 ACSGWPWB26 ACSGWPWT26 ACSGWPWC26 ACSGWPWTB26 ACSGWPWD26	1,2,4-Trichlorobenzene	J (all detects) UJ (all non-detects)	A	Initial calibration (%RSD)
7829	ACSGWPWA26 ACSGWPWDUP26 ACSGWPWB26 ACSGWPWT26 ACSGWPWC26 ACSGWPWTB26 ACSGWPWD26	Acetone 2-Butanone	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A	Initial calibration (RRF)
7829	ACSGWPWB26 ACSGWPWT26 ACSGWPWC26 ACSGWPWTB26 ACSGWPWD26	Methyl acetate Methyl-tert-butyl ether 1,2,4-Trichlorobenzene	J (all detects) UJ (all non-detects)	A	Continuing calibration (%D)
7829	ACSGWPWB26 ACSGWPWT26 ACSGWPWC26 ACSGWPWTB26 ACSGWPWD26	Acetone Methyl acetate 2-Butanone	J (all detects) UJ (all non-detects)	A	Continuing calibration (RRF)
7829	ACSGWPWB26	1,1-Dichloroethene Benzene Toluene *Chlorobenzene*	J (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicates (RPD)

ACS-89
Volatiles - Laboratory Blank Data Qualification Summary - SDG 7829

SDG	Sample	Compound TIC (RT in minutes)	Modified Final Concentration	A or P
7829	ACSGWPWTB26	Acetone	2.5UB ug/L	A

ACS-89
Volatiles - Field Blank Data Qualification Summary - SDG 7829

SDG	Sample	Compound	Modified Final Concentration	A or P
7829	ACSGWPWB26	cis-1,2-Dichloroethene m,p-Xylenes Xylenes, total	0.50UB ug/L 1.0UB ug/L 0.57UB ug/L	A

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWPWB26

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 782903

Sample wt/vol: 25 (g/ml) ML Lab File ID: 782903B61

Level: (low/med) LOW Date Received: 09/27/05

% Moisture: not dec. _____ Date Analyzed: 09/28/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U UJ
75-15-0	Carbon disulfide	0.50	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	0.50	U
67-64-1	Acetone	2.5	U UJ
79-20-9	Methyl acetate	0.50	U ↓
75-09-2	Methylene Chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl-tert-butyl ether	0.50	U UJ
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.38	J 0.50UB
78-93-3	2-butanone	2.5	U UJ
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U UJ
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	2.5	U
108-88-3	Toluene	0.32	J J
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-hexanone	2.5	U
124-48-1	Dibromochloromethane	0.50	U

FORM I VOA

MH 10/31/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWPWB26

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 782903

Sample wt/vol: 25 (g/ml) ML Lab File ID: 782903B61

Level: (low/med) LOW Date Received: 09/27/05

% Moisture: not dec. _____ Date Analyzed: 09/28/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q	
106-93-4	1,2-Dibromoethane	0.50	U	
108-90-7	Chlorobenzene	0.50	U	UJ
100-41-4	Ethylbenzene	0.50	U	
108-38-3	m,p-Xylene	0.54	J	LOUB
95-47-6	o-Xylene	0.50	U	
100-42-5	Styrene	0.50	U	
75-25-2	Bromoform	0.50	U	
98-82-8	Isopropyl Benzene	0.50	U	
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	
541-73-1	1,3-Dichlorobenzene	0.50	U	
106-46-7	1,4-Dichlorobenzene	0.50	U	
95-50-1	1,2-Dichlorobenzene	0.50	U	
96-12-8	1,2-Dibromo-3-Chloropropane	0.50	U	
120-82-1	1,2,4-Trichlorobenzene	0.50	U	UJ
1330-20-7	Xylene (total)	0.57		UB
110-82-7	Cyclohexane	0.50	U	
108-87-2	Methylcyclohexane	0.50	U	

lm 10/31/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWPWB26

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 782903

Sample wt/vol: 25 (g/ml) ML Lab File ID: 782903B61

Level: (low/med) LOW Date Received: 09/27/05

% Moisture: not dec. _____ Date Analyzed: 09/28/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I VOA-TIC

10/03/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWPWC26

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 782905

Sample wt/vol: 25 (g/ml) ML Lab File ID: 782905B61

Level: (low/med) LOW Date Received: 09/27/05

% Moisture: not dec. _____ Date Analyzed: 09/29/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.20	J
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
75-15-0	Carbon disulfide	0.50	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	0.50	U
67-64-1	Acetone	2.5	U uJ
79-20-9	Methyl acetate	0.50	U ↓
75-09-2	Methylene Chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl-tert-butyl ether	0.50	U uJ
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-butanone	2.5	U uJ
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	2.5	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-hexanone	2.5	U
124-48-1	Dibromochloromethane	0.50	U

FORM I VOA

HH10/31/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWPWC26

ab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 782905

Sample wt/vol: 25 (g/ml) ML Lab File ID: 782905B61

Level: (low/med) LOW Date Received: 09/27/05

% Moisture: not dec. _____ Date Analyzed: 09/29/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
108-38-3	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropyl Benzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-Chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U UJ
1330-20-7	Xylene (total)	0.50	U
110-82-7	Cyclohexane	0.50	U
108-87-2	Methylcyclohexane	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWPWC26

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 782905

Sample wt/vol: 25 (g/ml) ML Lab File ID: 782905B61

Level: (low/med) LOW Date Received: 09/27/05

% Moisture: not dec. _____ Date Analyzed: 09/29/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

Number TICs found: 1

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	0.88	0.62	J
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I VOA-TIC

MH103105

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWPWD26

ab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 782907

Sample wt/vol: 25 (g/ml) ML Lab File ID: 782907B61

Level: (low/med) LOW Date Received: 09/27/05

% Moisture: not dec. _____ Date Analyzed: 09/29/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
75-15-0	Carbon disulfide	0.50	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	0.50	U
67-64-1	Acetone	2.5	U UJ
79-20-9	Methyl acetate	0.50	U ↓
75-09-2	Methylene Chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl-tert-butyl ether	0.50	U UJ
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-butanone	2.5	U UJ
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	2.5	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-hexanone	2.5	U
124-48-1	Dibromochloromethane	0.50	U

FORM I VOA

MH 10/31/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWPWD26

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 782907

Sample wt/vol: 25 (g/ml) ML Lab File ID: 782907B61

Level: (low/med) LOW Date Received: 09/27/05

% Moisture: not dec. _____ Date Analyzed: 09/29/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
108-38-3	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropyl Benzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-Chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U UJ
1330-20-7	Xylene (total)	0.50	U
110-82-7	Cyclohexane	0.50	U
108-87-2	Methylcyclohexane	0.50	U

4/11/03105

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWPWD26

ab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 782907

Sample wt/vol: 25 (g/ml) ML Lab File ID: 782907B61

Level: (low/med) LOW Date Received: 09/27/05

% Moisture: not dec. _____ Date Analyzed: 09/29/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I VOA-TIC

MH103105

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWPWT26

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 782904

Sample wt/vol: 25 (g/ml) ML Lab File ID: 782904B61

Level: (low/med) LOW Date Received: 09/27/05

% Moisture: not dec. _____ Date Analyzed: 09/29/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.24	J
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
75-15-0	Carbon disulfide	0.50	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	0.50	U
67-64-1	Acetone	2.5	U UJ
79-20-9	Methyl acetate	0.50	U ↓
75-09-2	Methylene Chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl-tert-butyl ether	0.50	U UJ
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-butanone	2.5	U UJ
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	2.5	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-hexanone	2.5	U
124-48-1	Dibromochloromethane	0.50	U

LMC-3/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWPWT26

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 782904

Sample wt/vol: 25 (g/ml) ML Lab File ID: 782904B61

Level: (low/med) LOW Date Received: 09/27/05

% Moisture: not dec. _____ Date Analyzed: 09/29/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
108-38-3	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropyl Benzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-Chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	UUJ
1330-20-7	Xylene (total)	0.50	U
110-82-7	Cyclohexane	0.50	U
108-87-2	Methylcyclohexane	0,50	U

FORM I VOA

MH 10/3/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWPWT26

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 782904

Sample wt/vol: 25 (g/ml) ML Lab File ID: 782904B61

Level: (low/med) LOW Date Received: 09/27/05

% Moisture: not dec. _____ Date Analyzed: 09/29/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I VOA-TIC

MH 10/3/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWPWTB26

ab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 782906

Sample wt/vol: 25 (g/ml) ML Lab File ID: 782906B61

Level: (low/med) LOW Date Received: 09/27/05

% Moisture: not dec. _____ Date Analyzed: 09/28/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
75-15-0	Carbon disulfide	0.50	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	0.50	U
67-64-1	Acetone	2.1	JB 2.5 UBJ
79-20-9	Methyl acetate	0.50	U UJ
75-09-2	Methylene Chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl-tert-butyl ether	0.50	U UJ
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.23	J
78-93-3	2-butanone	2.5	U UJ
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	2.5	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-hexanone	2.5	U
124-48-1	Dibromochloromethane	0.50	U

FORM I VOA

44103105

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWPWTB26

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 782906

Sample wt/vol: 25 (g/ml) ML Lab File ID: 782906B61

Level: (low/med) LOW Date Received: 09/27/05

% Moisture: not dec. _____ Date Analyzed: 09/28/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.12	J
108-38-3	m,p-Xylene	0.78	J
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropyl Benzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-Chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U UJ
1330-20-7	Xylene (total)	0.82	
110-82-7	Cyclohexane	0.50	U
108-87-2	Methylcyclohexane	0.50	U

MM 03/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWPWTB26

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 782906

Sample wt/vol: 25 (g/ml) ML Lab File ID: 782906B61

Level: (low/med) LOW Date Received: 09/27/05

% Moisture: not dec. _____ Date Analyzed: 09/28/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	1066-40-6	SILANOL, TRIMETHYL-	2.62	1.7	NJ
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I VOA-TIC

10/31/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWPWA26

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 782901

Sample wt/vol: 25 (g/ml) ML Lab File ID: 782901B61

Level: (low/med) LOW Date Received: 09/26/05

% Moisture: not dec. _____ Date Analyzed: 09/28/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
75-15-0	Carbon disulfide	0.50	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	0.50	U
67-64-1	Acetone	2.5	U UJ
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene Chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl-tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-butanone	2.5	U UJ
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	2.5	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-hexanone	2.5	U
124-48-1	Dibromochloromethane	0.50	U

FORM I VOA

10/31/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWPWA26

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 782901

Sample wt/vol: 25 (g/ml) ML Lab File ID: 782901B61

Level: (low/med) LOW Date Received: 09/26/05

% Moisture: not dec. _____ Date Analyzed: 09/28/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
108-38-3	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropyl Benzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-Chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U uJ
1330-20-7	Xylene (total)	0.50	U
110-82-7	Cyclohexane	0.50	U
108-87-2	Methylcyclohexane	0.50	U

MM 10/31/05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWPWA26

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 782901

Sample wt/vol: 25 (g/ml) ML Lab File ID: 782901B61

Level: (low/med) LOW Date Received: 09/26/05

% Moisture: not dec. _____ Date Analyzed: 09/28/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

MM1-3105

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWPWDUP26

ab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 782902

Sample wt/vol: 25 (g/ml) ML Lab File ID: 782902B61

Level: (low/med) LOW Date Received: 09/26/05

% Moisture: not dec. _____ Date Analyzed: 09/28/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
75-15-0	Carbon disulfide	0.50	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	0.50	U
67-64-1	Acetone	2.5	UWJ
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene Chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl-tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-butanone	2.5	UWJ
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	2.5	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-hexanone	2.5	U
124-48-1	Dibromochloromethane	0.50	U

FORM I VOA

MM103105

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACSGWPWDUP26

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 782902

Sample wt/vol: 25 (g/ml) ML Lab File ID: 782902B61

Level: (low/med) LOW Date Received: 09/26/05

% Moisture: not dec. _____ Date Analyzed: 09/28/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
108-38-3	m,p-Xylene	1.0	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropyl Benzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-Chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	UUJ
1330-20-7	Xylene (total)	0.50	U
110-82-7	Cyclohexane	0.50	U
108-87-2	Methylcyclohexane	0.50	U

HH 10-31-05

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACSGWPWDUP26

ab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix: (soil/water) WATER Lab Sample ID: 782902

Sample wt/vol: 25 (g/ml) ML Lab File ID: 782902B61

Level: (low/med) LOW Date Received: 09/26/05

% Moisture: not dec. _____ Date Analyzed: 09/28/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I VOA-TIC

MH 10/31/05

LDC #: 14146A1
SDG #: 7829
Laboratory: CompuChem

VALIDATION COMPLETENESS WORKSHEET
Level IV

Date: 10/26/05
Page: 1 of 1
Reviewer:
2nd Reviewer:

METHOD: GC/MS Volatiles (EPA SW 846 Method 8260B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 9/23 → 9/26/05
II.	GC/MS Instrument performance check	A	
III.	Initial calibration	SW	
IV.	Continuing calibration	SW	
V.	Blanks	SW	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	SW	
VIII.	Laboratory control samples	A	LCS
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	A	
XI.	Target compound identification	A	
XII.	Compound quantitation/CRQLs	A	
XIII.	Tentatively identified compounds (TICs)	A	
XIV.	System performance	A	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	ND	D = 1 + 2
XVII.	Field blanks	SW	TB = 6

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples:

Water

1 1	ACSGWPWA26 D	11 1	VBLKCG	21		31	
2 1	ACSGWPWDUP26 D	12 2	VBLKED	22		32	
3 2	ACSGWPWB26	13 3	VBLKDJ	23		33	
4 2	ACSGWPWT26	14		24		34	
5 2	ACSGWPWC26	15		25		35	
6 2	ACSGWPWTB26 TB	16		26		36	
7 2	ACSGWPWD26	17		27		37	
8 3	ACSGWPWB26MS	18		28		38	
9 3	ACSGWPWB26MSD	19		29		39	
10		20		30		40	

1 + 2 9/23/05
3 → 7 9/26/05
} separate coolers

LDC #: 14146A1
SDG #: 7829

VALIDATION FINDINGS CHECKLIST

Reviewer: EJ
2nd Reviewer: MC

Method: Volatiles (EPA SW 846 Method 8260B)

Validation Area	Yes	No	NA	Findings/Comments
[illegible]				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
[illegible]				
Were the BFB performance results reviewed and found to be within the specified criteria?	✓			
Were all samples analyzed within the 12 hour clock criteria?	✓			
[illegible]				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	✓			
Was a curve fit used for evaluation?		✓		
Did the initial calibration meet the curve fit acceptance criteria of > 0.990?	✓		✓	
Were all percent relative standard deviations (%RSD) ≤ 30% and relative response factors (RRF) > 0.05?		✓		
[illegible]				
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	✓			
Were all percent differences (%D) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	✓			
Were all percent differences (%D) ≤ 25% and relative response factors (RRF) ≥ 0.05?		✓		
[illegible]				
Was a method blank associated with every sample in this SDG?	✓			
Was a method blank analyzed at least once every 12 hours for each matrix and concentration?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	✓			
[illegible]				
Were all surrogate %R within QC limits?	✓			
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?			✓	
[illegible]				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	✓			
Was a MS/MSD analyzed every 20 samples of each matrix?	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?		✓		
[illegible]				
Was an LCS analyzed for this SDG?	✓			

LDC #: 14146A1
SDG #: T829

VALIDATION FINDINGS CHECKLIST

Reviewer: EJ
2nd Reviewer: JT

Validation Area	Yes	No	NA	Findings/Comments
Was an LCS analyzed per analytical batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			
[illegible]				
Were performance evaluation (PE) samples performed?			✓	
Were the performance evaluation (PE) samples within the acceptance limits?			✓	
[illegible]				
Were internal standard area counts within -50% or +100% of the associated calibration standard?	✓			
Were retention times within ± 30 seconds of the associated calibration standard?	✓			
[illegible]				
Were relative retention times (RRT's) within ± 0.06 RRT units of the standard?	✓			
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	✓			
Were chromatogram peaks verified and accounted for?	✓			
[illegible]				
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?	✓			
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
[illegible]				
Were the major ions (> 10 percent relative intensity) in the reference spectrum evaluated in sample spectrum?	✓			
Were relative intensities of the major ions within ± 20% between the sample and the reference spectra?	✓			
Did the raw data indicate that the laboratory performed a library search for all required peaks in the chromatograms (samples and blanks)?	✓			
[illegible]				
System performance was found to be acceptable.	✓			
[illegible]				
Overall assessment of data was found to be acceptable.	✓			
[illegible]				
Field duplicate pairs were identified in this SDG.	✓			
Target compounds were detected in the field duplicates.		✓		
[illegible]				
Field blanks were identified in this SDG.	✓			
Target compounds were detected in the field blanks.	✓			

TARGET COMPOUND WORKSHEET

METHOD: VOA (EPA SW 846 Method 8260B)

A. Chloromethane*	S. Trichloroethene	KK. Trichlorofluoromethane	CCC. tert-Butylbenzene	UUU. 1,2-Dichlorotetrafluoroethane
B. Bromomethane	T. Dibromochloromethane	LL. Methyl-tert-butyl ether	DDD. 1,2,4-Trimethylbenzene	VVV. 4-Ethyltoluene
C. Vinyl chorlde**	U. 1,1,2-Trichloroethane	MM. 1,2-Dibromo-3-chloropropane	EEE. sec-Butylbenzene	WWW. Ethanol
D. Chloroethane	V. Benzene	NN. Methyl ethyl ketone	FFF. 1,3-Dichlorobenzene	XXX. Di-Isopropyl ether
E. Methylene chloride	W. trans-1,3-Dichloropropene	OO. 2,2-Dichloropropane	GGG. p-Isopropyltoluene	YYY. tert-Butanol
F. Acetone	X. Bromoform*	PP. Bromochloromethane	HHH. 1,4-Dichlorobenzene	ZZZ. tert-Butyl alcohol
G. Carbon disulfide	Y. 4-Methyl-2-pentanone	QQ. 1,1-Dichloropropene	III. n-Butylbenzene	AAAA. Ethyl tert-butyl ether
H. 1,1-Dichloroethene**	Z. 2-Hexanone	RR. Dibromomethane	JJJ. 1,2-Dichlorobenzene	BBBB. tert-Amyl methyl ether
I. 1,1-Dichloroethane*	AA. Tetrachloroethene	SS. 1,3-Dichloropropane	KKK. 1,2,4-Trichlorobenzene	CCCC.1-Chlorohexane
J. 1,2-Dichloroethene, total	BB. 1,1,2,2-Tetrachloroethane*	TT. 1,2-Dibromoethane	LLL. Hexachlorobutadiene	DDDD. Isopropyl alcohol
K. Chloroform**	CC. Toluene**	UU. 1,1,1,2-Tetrachloroethane	MMM. Naphthalene	EEEE. Acetonitrile
L. 1,2-Dichloroethane	DD. Chlorobenzene*	VV. Isopropylbenzene	NNN. 1,2,3-Trichlorobenzene	FFFF. Acrolein
M. 2-Butanone	EE. Ethylbenzene**	WW. Bromobenzene	OOO. 1,3,5-Trichlorobenzene	GGGG. Acrylonitrile
N. 1,1,1-Trichloroethane	FF. Styrene	XX. 1,2,3-Trichloropropane	PPP. trans-1,2-Dichloroethene	HHHH. 1,4-Dioxane
O. Carbon tetrachloride	GG. Xylenes, total	YY. n-Propylbenzene	QQQ. cis-1,2-Dichloroethene	IIII. Isobutyl alcohol
P. Bromodichloromethane	HH. Vinyl acetate	ZZ. 2-Chlorotoluene	RRR. m,p-Xylenes	JJJJ. Methacrylonitrile
Q. 1,2-Dichloropropane**	II. 2-Chloroethylvinyl ether	AAA. 1,3,5-Trimethylbenzene	SSS. o-Xylene	KKKK. Propionitrile
R. cis-1,3-Dichloropropene	JJ. Dichlorodifluoromethane	BBB. 4-Chlorotoluene	TTT. 1,1,2-Trichloro-1,2,2-trifluoroethane	LLLL.

* = System performance check compounds (SPCC) for RRF ; ** = Calibration check compounds (CCC) for %RSD.

LDC #: 14146A1
SDG #: 7829

VALIDATION FINDINGS WORKSHEET
Initial Calibration

Page: 1 of 1
Reviewer: B
2nd Reviewer: K

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y (N) N/A Did the laboratory perform a 5 point calibration prior to sample analysis?
Y (N) N/A Were percent relative standard deviations (%RSD) and relative response factors (RRF) within method criteria for all CCC's and SPCC's?
Y (N) N/A Was a curve fit used for evaluation? If yes, what was the acceptance criteria used for evaluation?_____
Y (N) N/A Did the initial calibration meet the acceptance criteria?
Y (N) N/A Were all %RSDs and RRFs within the validation criteria of ≤30 %RSD and ≥0.05 RRF ?

#	Date	Standard ID	Compound	Finding %RSD (Limit: ≤30.0%)	Finding RRF (Limit: ≥0.05)	Associated Samples	Qualifications
	9/27/05	8260ICAL-RTXVMS	KKK	45.206		All + Blks	J/NJ/A
			F		0.03184	↓	↓
			M		0.04213		

INIC B

LDC #: 14(A1
SDG #: 7847

VALIDATION FIND(S WORKSHEET
Continuing alibration

Pa(1 of 1
Reviewer: M
2nd Reviewer: M

METHOD: GC/MS VOA (EPA SW 846 Method 8260)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?

(Y) N N/A Were percent differences (%D) and relative response factors (RRF) within method criteria for all CCC's and SPCC's ?

Y (N) N/A Were all %D and RRFs within the validation criteria of ≤25 %D and ≥0.05 RRF ?

#	Date	Standard ID	Compound	Finding %D (Limit: ≤25.0%)	Finding RRF (Limit: ≥0.05)	Associated Samples	Qualifications
	9/28/05 1698	8260 CCV	F		0.034870	VBLKED, 3-7	J/UJ/A
			Methyl Acetate		0.0495080		
			↓	43.41			
			M		0.0323874		
			LL	57.29			
			KKK	33.25			
	9/29/05 1429	8260 CCV	A	39.14		VBLKDJ, 8,9	J/UJ/A
			B	70.45			
			F		0.0294545		
			Methyl Acetate	30.26			
			LL	35.45			
			M		0.0318718		
			KKK	31.26			

LDC #: 14146A1
SDG #: 7829

VALIDATION FINDINGS WORKSHEET
Blanks

Reviewer: EJ
2nd Reviewer: K

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was a method blank associated with every sample in this SDG?
Y N N/A Was a method blank analyzed at least once every 12 hours for each matrix and concentration?
Y N N/A Was there contamination in the method blanks? If yes, please see the qualifications below.

Blank analysis date: 9/27/05
Conc. units: ug/L
Associated Samples: 1, 2 (ND)

Compound	Blank ID	Sample Identification								
	VBLKCG									
Methylene chloride KKK	0.19									
Acetone										
CRQL										

Blank analysis date: 9/27/05
Conc. units: ug/L
Associated Samples: 3 - 7

Compound	Blank ID	Sample Identification								
	VBLKED	6								
Methylene chloride KKK	0.11	-								
Acetone	1.6	2.1/2.5UB								
CRQL										

All results were qualified using the criteria stated below except those circled.

Note: Common contaminants such as Methylene chloride, Acetone, 2-Butanone, Carbon disulfide and TICs that were detected in samples within ten times the associated method blank concentration were qualified as not detected, "U". Other contaminants within five times the method blank concentration were also qualified as not detected, "U".

LDC #: 1414 1
SDG #: 7827

VALIDATION FINDINGS WORKSHEET
Field Blanks

Page: 1 of 1
Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Y N /N/A Were field blanks identified in this SDG?
Y/N N/A Were target compounds detected in the field blanks?

Blank units: ug/L **Associated sample units:** ug/L

Field blank type: (circle one) Field Blank / Rinsate / Trip Blank / Other: TB Associated Samples: 3 + 5, 7

Compound	Blank ID 6	Blank ID	Sample Identification							
[redacted]	9/26/05		3							
~~Methylene chloride~~ BBB	0.23		0.38/0.50UB							
Acetone	2.1		-							
~~Chloroform~~ EE	0.12		-							
RRR	0.78		0.54/~~0.50~~ 1.0UB							
GG	0.82		0.57/~~0.50~~ 1.0UB							
CRQL										

Blank units: _____ **Associated sample units:** _____

Field blank type: (circle one) Field Blank / Rinsate / Trip Blank / Other: _____ Associated Samples: _____

Compound	Blank ID	Blank ID	Sample Identification							
[redacted]										
Methylene chloride										
Acetone										
Chloroform										
CRQL										

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
Common contaminants such as Methylene chloride, Acetone, 2-Butanone and Carbon disulfide that were detected in samples within ten times the associated field blank concentration were qualified as not detected, "U". Other contaminants within five times the field blank concentration were also qualified as not detected, "U".

LDC #: 14146A1
SDG #: 7829

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates

Page: 1 of 1
Reviewer: FZ
2nd Reviewer: K

METHOD : GC/MS VOA (EPA SW 846 Method 8260B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.

Y N N/A Was a MS/MSD analyzed every 20 samples of each matrix?

Y N N/A Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?

#	Date	MS/MSD ID	Compound	MS %R (Limits)	MSD %R (Limits)	RPD (Limits)	Associated Samples	Qualifications
		8+9	H	( )	( )	30 (14)	3	J/UJ/A
			V	( )	( )	13 (11)		
			CC	( )	( )	22 (13)		
			DD	( )	( )	17 (13)		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		

	Compound	QC Limits (Soil)	RPD (Soil)	QC Limits (Water)	RPD (Water)
H.	1,1-Dichloroethene	59-172%	≤ 22%	61-145%	≤ 14%
S.	Trichloroethene	62-137%	≤ 24%	71-120%	≤ 14%
V.	Benzene	66-142%	≤ 21%	76-127%	≤ 11%
CC.	Toluene	59-139%	≤ 21%	76-125%	≤ 13%
DD.	Chlorobenzene	60-133%	≤ 21%	75-130%	≤ 13%

LDC #: 14146A1
SDG #: 7829

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

$RRF = (A_x)(C_{is})/(A_{is})(C_x)$
average RRF = sum of the RRFs/number of standards
$\%RSD = 100 * (S/X)$

A_x = Area of compound,
C_{is} = Concentration of compound,
S = Standard deviation of the RRFs
X = Mean of the RRFs

A_{is} = Area of associated internal standard
C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Reported RRF (1X std)	Recalculated RRF (1X std)	Reported Average RRF (initial)	Recalculated Average RRF (initial)	Reported %RSD	Recalculated %RSD
1	8260LCAL	9/27/05	Methylene chloride (1st internal standard)	0.30572	0.30572	0.30008989	0.3000899	5.329	5.33
			~~Trichlorethene~~ EE (2nd internal standard)	0.69360	0.69360	0.71427564	0.71428	6.657	6.66
			~~Toluene~~ JJJ (3rd internal standard)	1.63328	1.63328	1.74837152	1.7484	12.078	12.08
2			Methylene chloride (1st internal standard)						
			Trichlorethene (2nd internal standard)						
			Toluene (3rd internal standard)						
3			Methylene chloride (1st internal standard)						
			Trichlorethene (2nd internal standard)						
			Toluene (3rd internal standard)						
4			Methylene chloride (1st internal standard)						
			Trichlorethene (2nd internal standard)						
			Toluene (3rd internal standard)						

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 14146A1
SDG #: 7829

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Page: 1 of 1
Reviewer: EB
2nd Reviewer: JJJ

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. RRF - RRF)/ave. RRF
RRF = $(A_x)(C_{is})/(A_{is})(C_x)$

Where: ave. RRF = initial calibration average RRF
RRF = continuing calibration RRF
A_x = Area of compound, A_{is} = Area of associated internal standard
C_x = Concentration of compound, C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Average RRF (Initial)	Reported RRF (CC)	Recalculated RRF (CC)	Reported %D	Recalculated %D
1	8260CCV	9/28/05 1658	Methylene chloride (1st internal standard)	0.300090	0.2964462	0.29645	1.21	1.21
			Trichlorethene (2nd internal standard)	0.714280	0.6728471	0.67285	5.80	5.80
			Toluene (3rd internal standard)	1.748370	1.4718503	1.47185	15.82	15.82
2			Methylene chloride (1st internal standard)					
			Trichlorethene (2nd internal standard)					
			Toluene (3rd internal standard)					
3			Methylene chloride (1st internal standard)					
			Trichlorethene (2nd internal standard)					
			Toluene (3rd internal standard)					
4			Methylene chloride (1st internal standard)					
			Trichlorethene (2nd internal standard)					
			Toluene (3rd internal standard)					

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 14146A1
SDG #: 7829

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Page: 1 of 1
Reviewer: [illegible]
2nd reviewer: [illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: #1

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8	125	120.755	97	97	0
Bromofluorobenzene		130.637	105	105	
1,2-Dichloroethane-d4		123.80	99	99	
Dibromofluoromethane		113.255	91	91	

Sample ID: _____

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8					
Bromofluorobenzene					
1,2-Dichloroethane-d4					
Dibromofluoromethane					

Sample ID: _____

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8					
Bromofluorobenzene					
1,2-Dichloroethane-d4					
Dibromofluoromethane					

Sample ID: _____

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8					
Bromofluorobenzene					
1,2-Dichloroethane-d4					
Dibromofluoromethane					

Sample ID: _____

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8					
Bromofluorobenzene					
1,2-Dichloroethane-d4					
Dibromofluoromethane					

LDC #: 14146A1
SDG #: 7829

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

Page: 1 of 1
Reviewer: B
2nd Reviewer: K

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * (SSC - SC)/SA

Where: SSC = Spiked sample concentration; SA = Spike added; SC = Sample concentration

RPD = | MSC - MSDC | * 2/(MSC + MSDC)

MSC = Matrix spike percent recovery; MSDC = Matrix spike duplicate percent recovery

MS/MSD sample: 8 + 9

Compound	Spike Added (ug/L)		Sample Concentration (ug/L)	Spiked Sample Concentration (ug/L)		Matrix Spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD	—	MS	MSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalculated
1,1-Dichloroethene	5	5	0	3.989	5.372	80	80	108	108	30	30
Trichloroethene	↓	↓	↓	3.861	4.422	77	77	88	88	14	14
Benzene	↓	↓	↓	4.409	5.012	88	88	100	100	13	13
Toluene	↓	↓	0.3156	4.171	5.2	77	77	98	98	22	22
Chlorobenzene	↓	↓	↑ 0	4.145	4.913	83	83	98	98	17	17

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 14204A1
SDG #: 7829

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample Results Verification

Reviewer: PR
2nd Reviewer: A

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratoy control sample and laboratory control sample duplicate (if applicable) were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * SSC/SA

Where: SSC = Spiked sample concentration
SA = Spike added

RPD = | LCS - LCSD | * 2/(LCS + LCSD)

LCS = Laboratory control sample percent recovery

LCSD = Laboratory control sample duplicate percent recovery

LCS ID: VCVLCS

Compound	Spike Added (ug/L)		Spiked Sample Concentration (ng/L)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalculated
1,1-Dichloroethene	5	NA	3.817	NA	76	76				
Trichloroethene			3.923		78	78				
Benzene			4.408		88	88				
Toluene			4.238		85	85				
Chlorobenzene			4.314		86	86	NA			

Comments: Refer to Laboratory Control Sample findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 14146A1
SDG #: 7829

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: [illegible]
2nd reviewer: [illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Y N N/A Were all reported results recalculated and verified for all level IV samples?

Y N N/A Were all recalculated results for detected target compounds agree within 10.0% of the reported results?

Concentration = $\frac{(A_x)(I_s)(DF)}{(A_{is})(RRF)(V_o)(\%S)}$

A_x = Area of the characteristic ion (EICP) for the compound to be measured

A_{is} = Area of the characteristic ion (EICP) for the specific internal standard

I_s = Amount of internal standard added in nanograms (ng)

RRF = Relative response factor of the calibration standard.

V_o = Volume or weight of sample pruged in milliliters (ml) or grams (g).

Df = Dilution factor.

%S = Percent solids, applicable to soils and solid matrices only.

Example:

Sample I.D. #3, QQQ:

Conc. = (8215)(125)( )
(290904)(0.37140483 (25)( )
= 0.38 ug/L

#	Sample ID	Compound	Reported Concentration ( )	Calculated Concentration ( )	Qualification

CompuChem
a division of Liberty Analytical Corp.

11-Oct-05

14146A

AMY CLORE
MONTGOMERY WATSON HARZA
175 WEST JACKSON BOULEVARD
SUITE 1900
Chicago, IL 606042814

Subject:
Report of Data-Project: ACS/NPL SITE Workorder: 7829

Attn.: AMY CLORE

Enclosed are the results of analytical work performed in accordance with the referenced account number.

This report covers sample(s) appearing on the attached listing.

Thank you for selecting CompuChem for your sample analysis. If you should have questions or require additional analytical services, please contact your representative at 1-800-833-5097.

Sincerely,

CompuChem
A Division of Liberty Analytical

Attachment

TOTAL NUMBER
OF PAGES 298

501 Madison Avenue, Cary, NC 27513 Tel: 919-379-4100 Fax: 919-379-4050

CompuChem, a division of Liberty Analytical

Hsn	Client ID	Wordorder	Matrix	Account	Project	Report
782901	ACSGWPWA26	7829	W	MWH	ACS/NPL SITE	
782902	ACSGWPWDUP26	7829	W	MWH	ACS/NPL SITE	
782903	ACSGWPWB26	7829	W	MWH	ACS/NPL SITE	
782904	ACSGWPWT26	7829	W	MWH	ACS/NPL SITE	
782905	ACSGWPWC26	7829	W	MWH	ACS/NPL SITE	
782906	ACSGWPWTB26	7829	W	MWH	ACS/NPL SITE	10/4/2005
782907	ACSGWPWD26	7829	W	MWH	ACS/NPL SITE	

CompuChem [illegible]

I. SAMPLE DATA PACKAGE

[illegible]

The sample data package shall include data for all analyses of all samples in one Sample Delivery Group (SDG), including field samples, dilutions, reanalyses, and Laboratory Control Samples. The sample data package consists of the following:

A. SDG Narrative

B. Chains-of-Custody

C. Volatiles Data

D. Semivolatiles Data

E. Pesticide / Aroclor Data

LAB CODE : LIBRTY

CONTRACT # : OLC03-REVS

SDG # : 7829

A. SDG Narrative

CompuChem

a division of Liberty Analytical Corporation
501 Madison Avenue
Cary, N.C. 27513
Tel: 919/379-4100 Fax: 919/379-4050

SDG NARRATIVE
SDG #7829
PROTOCOL: OLC03-REVS

SAMPLE IDENTIFICATIONS: ACSGWPWA26, ACSGWPWB26, ACSGWPWC26, ACSGWPWD26, ACSGWPWDUP26, ACSGWPWT26

The six aqueous samples listed above were scheduled for the requested analyses of the GC/MS Semivolatiles fraction. The samples were prepared and analyzed following the current EPA Contract Laboratory Program (CLP) Statement of Work (SOW), Document OLC03.2. All pertinent Quality Assurance notices are included in the narrative section and all pertinent Laboratory notices for SDG #7829 are included in the sample data sections.

Semivolatiles

Extraction and analysis holding time requirements were met for all of these samples.

Bis(2-ethylhexyl)phthalate was identified above the Contract Required Quantitation Limit (CRQL) in three of the samples. There were two Tentatively Identified Compounds (TICs) reported in sample ACSGWPWB26. There were no alkanes detected in the samples.

Manual quantitations were performed on one or more of the process files associated with this SDG. The reasons have been coded with explanations provided in the notice included in the narrative section of the SDG.

All decafluorotriphenylphosphine (DFTPP) abundance criteria were met for tunes associated to this SDG. Overall QC criteria were met for all initial and continuing calibration standards associated to this SDG.

All of the deuterated monitoring compounds (DMCs) met recovery criteria in the analyses of these samples with the exception of 4-Chloroaniline-d4 in SBLKNX, which recovered above the 70% upper limit at 83%. All of the internal standards met response and retention time criteria in the analyses of these samples. The DMC recovery limits for 4,6-Dinitro-4-methylphenol on the Form II varies from the limits given in the OLC03.2 SOW. This was changed to reflect an allowance given by the EPA to allow labs to use the limits for this surrogate stated in the most recent SOW (SOM01.1).

The associated method blank met all quality control criteria. Method blank SBLKNX contained bis(2-ethylhexyl)phthalate above the CRQL but within allowable limits, and one TIC. Any positive detection for these compounds in the samples and/or QC samples associated with this blank has been flagged with a "B".

The duplicate matrix spikes (MS/MSD) associated with this SDG met all recovery and precision criteria with the exception of recovery for 4-Nitrophenol and Pentachlorophenol in the MS, and Pentachlorophenol in the MSD. All of these recovered above criteria.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Furthermore, I certify that the tests used in this report meet all requirements of the NELAC standards unless otherwise stated in the SDG narrative or QA notice. Release of the data contained in this hardcopy data package and in the computer-readable data submitted electronically has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Kerry S. Hinshaw
Semivolatiles Manager
October 10, 2005

GC and GC/MS Column and Trap Specifications Table

SDG #: 7829

COLUMNS

Columns Utilized	Brand Name	Coating Material	ID (mm)	Film Thickness (um)	Length (m)
	GC Laboratory				
	Restek	RTX-5	0.53	1.0	30
	Restek	RTX-SMS	0.53	1.0	30
	Restek	CLPesticides	0.53	0.5	30
	Restek	CLPesticides II	0.53	0.42	30
	J&W	DB-210	0.53	1.0	30
	J&W	GS-GASPRO	0.32		30
	GC Volatiles Laboratory				
	Restek	RTX-Volatiles	0.53	2.0	30
	GC/MS Volatiles Laboratory				
	Restek	RTX-624	0.32	1.8	60
	Restek	RTX-VMS*	0.18	1.0	20
	Phenomonex	ZB-624	0.32	1.8	60
	Supelco	SPB-624	0.32	3	75
	GC/MS Semivolatiles Laboratory				
	Restek	RTX-5MS	0.25	0.3	30
✓	Restek	RTX-5MS	0.32	0.3	30
	HPLC Laboratory				
	Supelco	Supelcosil LC-PAH	4.6	5.0	15 cm
	Supelco	Discovery RP Amide C16	4.6	5.0	25 cm
	Restek	Pinnacle Cyano	4.6	5	25 cm
	Restek	Allure C18	4.6	5	25 cm

TRAPS

	GC and GC/MS Volatiles Laboratory	
	Tekmar 3	* 8 cm of 2,6-diphenylene oxide polymer (Tenax)
		* 8 cm of silica gel
		* 7 cm of coconut charcoal
		* 0.5 cm of silanized glass wool at each end
	Tekmar 5	* 1 cm of methyl silicone packing (OV-1 coating)
		* 8 cm of 2,6-diphenylene oxide polymer (Tenax)
		* 8 cm of silica gel
		* 7 cm of coconut charcoal
		* 0.5 cm of silanized glass wool at each end
	Supelco K (Vocarb3000)	* 10 cm of Carbopack B (Graphitized Carbons)
		* 6 cm of Carboxen 1000 (Carbon molecular sieves)
		* 1 cm of Carboxen 1001 (Carbon molecular sieves)

Rev. 18

CompuChem

a division of Liberty Analytical Corporation

CompuChem's Pagination Convention

As required by the current EPA CLP Statement of Work (SOW) documents, data to be delivered must be paginated (by machine or hand). In the event that the initial numbering is incorrect (a page numbered twice or a page skipped, for example), it is CompuChem's policy to add in an alphabetic suffix to a page number when necessary (e.g., 100A, 100B, etc.).

CompuChem

Division of Liberty Analytical Corporation

Notification Regarding Manual Editing/Integration Flags

In some instances, manual adjustments to the software output are necessary to provide accurate data. These manual integrations are performed by the data reviewers, GC/MS operators, or GC chemists. An Extracted Ion Current [illegible] or a GC chromatographic peak has been provided for the manual integration performed on each compound to demonstrate the accuracy of that process. The manual integrations are flagged on the quantitation report in the far right column beyond the FINAL concentration for GC/MS analysis, and in the "Flags" column for [illegible] the manual editing/integration flags are:

M [illegible] Denotes that a manual integration has been performed for this compound. The manual integration was performed in order to provide the most accurate area count possible for the peak.

[illegible] Denotes that the data reviewer, GC/MS operator, or GC Chemist has chosen an alternate peak within the retention time window from that chosen by the software for that compound. No manual integration is performed in choosing an alternate peak. The software still performs the integration.

[illegible] Denotes that an alternate peak has been chosen within the retention time window from that chosen by the software for that compound and also a manual integration of the chosen peak has been performed. The manual integration was performed in order to provide the most accurate area count possible for the peak.

[illegible] Denotes that a data reviewer or GC/MS operator has selected an alternate library search. This is typically done when an additional tentatively identified compound (TIC) has been added to the number of peaks searched. No manual integration is performed in choosing an alternate peak. The software still performs the integration.

M1 Denotes that an alternate library search has been selected and a manual integration has also been performed. This is typically done when an additional TIC has been added and the TIC peak also required a manual integration.

[illegible] SOW documents require additional explanations for manual editing/integration. In the accompanying [illegible] additional codes have been applied to the "M" flag and carry the following meanings;

M1 The compound was not found by the automatic integration routine.

M2 The compound was incorrectly integrated by the automatic integration routine.

M3 The co-eluting compounds were incorrectly integrated by the automatic integration routine.

These codes will appear in the GC/MS and GC data packages.

Robert E. Meierer

Robert E. Meierer
Vice President

[illegible]

DATA REPORTING QUALIFIERS (continued)

C : This flag applies to GC or HPLC results where the identification has been confirmed by GC/MS. If GC/MS confirmation was attempted but was unsuccessful, this flag is not applied; a laboratory-defined flag is used instead (see the X/Y/Z qualifier.)

B : This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates probable blank contamination and warns the data user to take appropriate action. This flag is used for a TIC as well as for a positively identified target compound. The combination of flags BU or UB is not an allowable policy. Blank contaminants are flagged B only when they are detected in the sample.

E : This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis. If one or more compounds have a response greater than the upper level of the calibration range, the sample or extract will be diluted and reanalyzed. All such compounds with a response greater than the upper level of the calibration range will have the concentration flagged with an E on Form I for the original analysis.

D : If a sample or extract is reanalyzed at a higher dilution factor, for example when the concentration of an analyte exceeds the upper calibration range, the DL suffix is appended to the sample number on Form I for the more diluted sample, and all reported concentrations on that Form I are flagged with the D flag. This flag alerts data users that any discrepancies between the reported concentrations may be due to dilution of the sample or extract.

NOTE 1: The D flag is not applied to compounds which are not detected in the sample analysis i.e. compounds reported with the CRQL (or Reporting Limit) and the U flag.

NOTE 2: Separate Form Is are used for reporting the original analysis (Client Sample No. XXXXX) and the more diluted sample analysis (Client Sample No. XXXXXDL) i.e. the results from both analyses are not combined on a single Form I.

A : This flag indicates that a TIC is a suspected aldol-condensation product.

X/Y/Z : Other specific flags may be required to properly define the results. If used, the flags will be fully described in the SDG Narrative. The laboratory-defined flags are limited to X, Y and Z.

DATA REPORTING QUALIFIERS

On the Form I, under the column labeled "Q" for qualifier, each result is flagged with the specific data reporting qualifiers listed below, as appropriate. Up to five qualifiers may be reported on Form I for each compound. The qualifiers used are:

U : This flag indicates the compound was analyzed for but not detected. The Contract Required Quantitation Limit (CRQL), or reporting limit, will be adjusted to reflect any dilution and, for soils, the percent moisture.

J : This flag indicates an estimated value. The flag is used as detailed below:

1. When estimating a concentration for tentatively identified compounds (TICs) where a response factor of 1.0 is assumed for the TIC analyte,

2. When the mass spectral and retention time data indicate the presence of a compound that meets the volatile and semivolatile GC/MS identification criteria, and the result is less than the CRQL (or Reporting Limit) but greater than zero, and

3. When the retention time data indicate the presence of a compound that meets the pesticide/Arocior or other GC or HPLC identification criteria, and the result is less than the CRQL (or Reporting Limit) but greater than zero. For example, if the CRQL (or Reporting Limit) is 10 µg/L, but a concentration of 3 µg/L is calculated, it is reported as 3J.

N : This flag indicates presumptive evidence of a compound. This flag is only used for TICs, where the identification is based on a mass spectral library search. For generic characterization of a TIC such as 'chlorinated hydrocarbon', the N flag is not used.

P : In the EPA's Contract Laboratory Program (CLP), this flag is used for a pesticide/Aroclor target analyte, when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form I and flagged with a P.
For SW-846 GC and HPLC analyses, when the Relative Percent Difference (RPD) is greater than 40% and there is no evidence of chromatographic anomalies or interferences, then the higher of the two values is reported and flagged with a P. When the RPD is equal to or less than 40%, our policy is to also report the higher of the two values, although the choice could be a project specific issue. For certain HPLC analyses, if one of the HPLC columns displays co-elution of target analytes, all results are reported from a primary column displaying no co-elution. Results are still flagged with a P if the RPD between columns is greater than 40%.

B. Chains-of-Custody

The laboratory shall include a copy of the Chains-of-Custody for all of the samples in the SDG. The Chains-of-Custody shall be arranged in increasing Client Sample ID number order, considering both letters and numbers.

CompuChem
a division of Liberty Analytical Corp.

CHAIN OF CUSTODY

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

№ 0[illegible]598

Page 1 of 1

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information

Company Name: MWH
Address: 175 W. Jackson Blvd. Ste 1900
City: Chicago State: IL Zip: 60604
Project Contact: Amy Clore
Phone #: 312-831-3000
Sampler's Name: AClore / JFager

Project Information

Project Name: ACS- Residential
Sampling Location: Griffith, IN
Turnaround time: Specified in W.O.
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or N?
Are high concentrations expected? Y or N? If yes, which ID(s)?

Requested Analysis (include method and bottle type)

Lab ID	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other NCNE	VOCs (low conc.)	SVOCs (low conc)	Pest. / PCBs (low conc)	Metals	Cyanide	Matrices
782901	ACS-GW-PNA-26	9/23	1000	GW	9	3	1	1			4	✓	✓	✓	✓	✓	<2 >12
782902	ACS-GW-PNDUP-26	9/23	1000	GW	9	3	1	1			4	✓	✓	✓	✓	✓	<2 >12

GW - Ground water
WW - Waste water
SW - Surface water
SO - Soil/Sediment
TB - Trip Blank
RI - Rinsate
WP - Wipe
O - Other

MS 9/26/05

Lab Use Only

Sample Unpacked By: Jennifer Dover
Sample Order Entry By: Melissa Dover
Samples Received in Good Condition? (Y) or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? (Y) or NA (pH 10)
625 & Phenol samples checked for chlorine? Y or (NA)
608 samples checked for pH between 5.0-9.0? Y or (NA)

Comments

Sample Custody

Relinquished by: Amy Clore	Date/Time: 9/23/05 1150	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by: Jennifer Dover	Date/Time: 9-26-05 9:00
Subcontact? Y or N If yes, where?		Custody Seal(s) intact? (Y) or N	On Ice? (Y) or N — Cooler Temp: 5.2, 5.7 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

№ 007712

Page 1 of 1

11

CompuChem
a division of Liberty Analytical Corp.

CHAIN OF CUSTODY

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information

Company Name: MWH
Address: 175 W. Jackson Blvd. Ste 1900
City State Zip: Chicago IL 60604
Project Contact: Amy Clore
Phone #: 312-831-3000
Sampler's Name: J. Finger / A Clore

Project Information

Project Name: ACS Residential GW
Sampling Location: Griffith, IN
Turnaround time: Specified in Work Plan
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or N
Are high concentrations expected? Y or N? If yes, which ID(s)? N

Requested Analysis (include method and bottle type)

Residential GW Complete

VOCs; SVOCs; Pest./PCBs; TAL Metals; Cyanide

Matrices

GW - Ground water
WW - Waste water
SW - Surface water
SO - Soil/Sediment
TB - Trip Blank
RI - Rinsate
WP - Wipe
O - Other

Comp/Grab	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other Name	VOCs	SVOCs	Pest./PCBs	TAL Metals	Cyanide	Comments
782903	ACS-GW-PWB-26	9/26	0830	GW	27	9	3	3			12	✓	✓	✓	✓	✓	<2 >12
782904	ACS-GW-PWT-26	9/26	0940	GW	9	3	1	1			4	✓	✓	✓	✓	✓	<2 >12
782905	ACS-GW-PWC-26	9/26	1020	GW	9	3	1	1			4	✓	✓	✓	✓	✓	<2 >12
782906	ACS-GW-PWTB-26	9/26	—	TB	1	1						✓					
782907	ACS-GW-PWD-26	9/26	1715	GW	9	3	1	1			4	✓	✓	✓	✓	✓	<2 >12

Sample Receipt Checklist

Sample Unpacked By: Lee Lenyo
Sample Order Entry By: Melinda Hoover
Samples Received in Good Condition? Y or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or NA
625 & Phenol samples checked for chlorine? Y or NA
608 samples checked for pH between 5.0-9.0? Y or NA

Comments

Rec'd Broken
2-1L ACS GW-PWB-26 (1 Pest / SVOC)
1-1L ACS GW-PWT-26 (SVOC)
1-

Sample Custody

Relinquished by: Amy Clore	Date/Time: 9/26/05 1800	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by: Lee Lenyo	Date/Time: 9-27-05 9:12

Subcontact? Y If yes, where?
Seal(s) intact? Y or N
On Ice? Y or N
Cooler Temp: 3.4, 2.0C2

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

CompuChem

a division of Liberty Analytical Corp.

WORKORDER SUMMARY REPORT

Workorder: 7829 **Account:** MWH **Project:** ACS
SDG-Case: ACS **Status:** CLOSED **QC Type:** CLIENT SPECIFIC MS/MSD
Report Style: COMPUCHEM STYLE 9 WITH EDD AND CD

SAMPLE ID	CLIENT ID	COLLECT DATE	RECEIVE DATE	DUE DATE	COMMENTS
782901	ACSGWPWA26	9/23/2005	9/26/2005	10/10/2005	PPS1002/TCL4 8260 25ML, OLC3.2 SVOAS & PEST/PCBS, METALS & CN
W	VW82-25TC4	VOC 8260B 25ML TCL4 WATER			
W	GW32PPTCL	PST/PCB OLC03.2 TCL WATER			
W	SW32TCL	SVOC OLC03.2 TCL WATER			
W	WW9012CN	CYANIDE 9010B/9012A WATER			
W	MW7470HG	MERCURY ONLY 7470A WATER			
W	MW6010TAL	METAL 6010B TAL WATER			
782902	ACSGWPWDUP2	9/23/2005	9/26/2005	10/10/2005	PPS1002/TCL4 8260 25ML, OLC3.2 SVOAS & PEST/PCBS, METALS & CN
W	VW82-25TC4	VOC 8260B 25ML TCL4 WATER			
W	GW32PPTCL	PST/PCB OLC03.2 TCL WATER			
W	SW32TCL	SVOC OLC03.2 TCL WATER			
W	MW7470HG	MERCURY ONLY 7470A WATER			
W	WW9012CN	CYANIDE 9010B/9012A WATER			
W	MW6010TAL	METAL 6010B TAL WATER			
782903	ACSGWPWB26	9/26/2005	9/27/2005	10/10/2005	**USE FOR QC**PPS1002/TCL4 8260 25ML, OLC3.2 SVOAS & PEST/PCBS, METALS & CN
W	VW82-25TC4	VOC 8260B 25ML TCL4 WATER			
W	GW32PPTCL	PST/PCB OLC03.2 TCL WATER			
W	MW6010TAL	METAL 6010B TAL WATER			
W	SW32TCL	SVOC OLC03.2 TCL WATER			
W	MW7470HG	MERCURY ONLY 7470A WATER			
W	QCW-32PP	QC-OLC03.2 PP WATER			
W	QCW-6010	QC-6010B METALS WATER			
W	QCW-7470HG	QC-7470 HG WATER			
W	QCW-9012CN	QC-9012 CYANIDE WATER			
W	QCW-826025	QC-8260B 25ML VOC WATER			
W	QCW-32SV	QC-OLC03.2 SVOC WATER			
W	WW9012CN	CYANIDE 9010B/9012A WATER			
782904	ACSGWPWT26	9/26/2005	9/27/2005	10/10/2005	PPS1002/TCL4 8260 25ML, OLC3.2 SVOAS & PEST/PCBS, METALS & CN

CompuChem

a division of Liberty Analytical Corp.

WORKORDER SUMMARY REPORT

Workorder: 7829 **Account:** MWH **Project:** ACS
SDG-Case: ACS **Status:** CLOSED **QC Type:** CLIENT SPECIFIC MS/MSD
Report Style: COMPUCHEM STYLE 9 WITH EDD AND CD

SAMPLE ID	CLIENT ID	COLLECT DATE	RECEIVE DATE	DUE DATE	COMMENTS
W	VW82-25TC4	VOC 8260B 25ML TCL4 WATER			
W	GW32PPTCL	PST/PCB OLC03.2 TCL WATER			
W	SW32TCL	SVOC OLC03.2 TCL WATER			
W	WW9012CN	CYANIDE 9010B/9012A WATER			
W	MW7470HG	MERCURY ONLY 7470A WATER			
W	MW6010TAL	METAL 6010B TAL WATER			
782905	ACSGWPWC26	9/26/2005	9/27/2005	10/10/2005	PPS1002/TCL4 8260 25ML, OLC3.2 SVOAS & PEST/PCBS, METALS & CN
W	VW82-25TC4	VOC 8260B 25ML TCL4 WATER			
W	GW32PPTCL	PST/PCB OLC03.2 TCL WATER			
W	SW32TCL	SVOC OLC03.2 TCL WATER			
W	MW7470HG	MERCURY ONLY 7470A WATER			
W	WW9012CN	CYANIDE 9010B/9012A WATER			
W	MW6010TAL	METAL 6010B TAL WATER			
782906	ACSGWPWTB26	9/26/2005	9/27/2005	10/10/2005	PPS1002/TCL4 8260 25ML;TRIP BLANK**
W	VW82-25TC4	VOC 8260B 25ML TCL4 WATER			
782907	ACSGWPWD26	9/26/2005	9/27/2005	10/10/2005	PPS1002/TCL4 8260 25ML, OLC3.2 SVOAS & PEST/PCBS, METALS & CN
W	VW82-25TC4	VOC 8260B 25ML TCL4 WATER			
W	GW32PPTCL	PST/PCB OLC03.2 TCL WATER			
W	SW32TCL	SVOC OLC03.2 TCL WATER			
W	MW6010TAL	METAL 6010B TAL WATER			
W	MW7470HG	MERCURY ONLY 7470A WATER			
W	WW9012CN	CYANIDE 9010B/9012A WATER			

CompuChem, a Division of Liberty Analytical
Extract Chain of Custody

Batch: 8029 Date: 9/27/2005

Department: Organic Extractions

Sample ID	Client ID	Product	Matrix	Hold Date
778902	X06G0	SW-OLC32X	W	9/27/2005
782901	ACSGWPWA26	SW32X	W	9/30/2005
782902	ACSGWPWDUP	SW32X	W	9/30/2005
782903	ACSGWPWB26	SW32X	W	10/3/2005
782904	ACSGWPWT26	SW32X	W	10/3/2005
782905	ACSGWPWC26	SW32X	W	10/3/2005
782907	ACSGWPWD26	SW32X	W	10/3/2005
81076	SBLKNX	SW32X	W	10/4/2005
81077	SNXLCS	SW32X	W	10/4/2005
81085	ACSGWPWB26	SW32X	W	10/3/2005
81086	ACSGWPWB26	SW32X	W	10/3/2005

9-29-1

Relinquished By:	Received By:	Date/Time
[illegible]	GC/ms [illegible] #3	9/29/05 7:10
GC/ms [illegible]	G. Mikel	10/6 9:00
G. Mikel	GC/ms [illegible]	10/6 12:00

10/10/05 NH

D. Semivolatiles Data

1. Q C Summary
2. Sample Data
3. Standards Data
4. Raw Q C Data

LAB CODE : LIBRTY

CONTRACT # : OLC03-REVS

SDG # : 7829

Semivolatiles Q C Summary

a. Deuterated Monitoring Compound Recovery
(Form II LCSV-1 and LCSV-2)

b. Matrix Spike/Matrix Spike Duplicate Recovery
(Form III LCSV)

c. Method Blank Summary (Form IV LCSV)

d. GC/MS Instrument Performance Check
(Form V LCSV)

e. Internal Standard Area and RT Summary
(Form VIII LCSV)

a. Deuterated Monitoring Compound Recovery

(Form II LCSV-1 and LCSV-2)

2LCC

LOW CONCENTRATION WATER SEMIVOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

	EPA SAMPLE NO.	SDMC1 (PHL) #	SDMC2 (BCE) #	SDMC3 (2CP) #	SDMC4 (4MP) #	SDMC5 (NBZ) #	SDMC6 (2NP) #	SDMC7 (DCP) #	SDMC8 (4CA) #
01	SBLKNX	80	85	83	88	83	80	75	83*
02	ACSGWPWA26	50	53	50	58	53	53	55	48
03	ACSGWPWDUP26	60	63	60	63	63	63	60	58
04	ACSGWPWB26	64	67	64	67	64	64	64	42
05	ACSGWPWT26	65	65	65	68	68	65	65	45
06	ACSGWPWB26MS	58	60	60	65	63	60	63	45
07	ACSGWPWB26MSD	55	60	58	60	55	55	58	43
08	ACSGWPWC26	63	68	65	68	65	65	65	45
09	ACSGWPWD26	58	63	60	65	60	60	63	53
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									

			QC LIMITS
SDMC1	(PHL)	= Phenol-d5	(10-110)
SDMC2	(BCE)	= bis-(2-Chloroethyl)ether-d8	(41- 94)
SDMC3	(2CP)	= 2-Chlorophenol-d4	(33-110)
SDMC4	(4MP)	= 4-Methylphenol-d8	(38- 95)
SDMC5	(NBZ)	= Nitrobenzene-d5	(35-114)
SDMC6	(2NP)	= 2-Nitrophenol-d4	(40-106)
SDMC7	(DCP)	= 2,4-Dichlorophenol-d3	(42- 98)
SDMC8	(4CA)	= 4-Chloroaniline-d4	(8- 70)

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

2LCD

LOW CONCENTRATION WATER SEMIVOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

==	EPA SAMPLE NO.	SDMC9 (DMP) #	SDMC10 (ACY) #	SDMC11 (4NP) #	SDMC12 (FLR) #	SDMC13 (NMP) #	SDMC14 (ANC) #	SDMC15 (PYR) #	SDMC16 (BAP) #	TOT OUT
01	SBLKNX	95	85	93	88	58	95	100	98	1
02	ACSGWPWA26	65	58	83	65	65	73	70	68	0
03	ACSGWPWDUP26	70	65	78	68	55	70	75	73	0
04	ACSGWPWB26	72	64	92	72	67	75	78	72	0
05	ACSGWPWT26	75	70	90	75	65	73	80	80	0
06	ACSGWPWB26MS	73	65	85	73	68	78	78	78	0
07	ACSGWPWB26MSD	70	63	75	68	55	68	78	70	0
08	ACSGWPWC26	75	70	85	75	65	78	80	75	0
09	ACSGWPWD26	73	65	78	73	60	73	80	75	0
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										

		QC LIMITS
SDMC9 (DMP)	= Dimethylphthalate-d6	(62-102)
SDMC10 (ACY)	= Acenaphthylene-d8	(49- 98)
SDMC11 (4NP)	= 4-Nitrophenol-d4	(9-181)
SDMC12 (FLR)	= Fluorene-d10	(50- 97)
SDMC13 (NMP)	= 4,6-Dinitro-2-methylphenol-d2	(22-104)
SDMC14 (ANC)	= Anthracene-d10	(55-116)
SDMC15 (PYR)	= Pyrene-d10	(47-114)
SDMC16 (BAP)	= Benzo(a)pyrene-d12	(54-120)

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

b. Matrix Spike/Matrix Spike Duplicate Recovery (Form III LCSV)

3LCB
LOW CONCENTRATION WATER SEMIVOLATILE
MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

[illegible] CHEM Contract: OLC03-REVS

[illegible] Case No.: Client No.: SDG No.: 7829

[illegible] EPA Sample No.: ACSGWPWB26

COMPOUND	SPIKE ADDED (UG/L)	SAMPLE CONCENTRATION (UG/L)	MS CONCENTRATION (UG/L)	MS % REC #	QC. LIMITS REC.
Phenol	80	0.0	49	61	12-110
2-Chlorophenol	80	0.0	48	60	27-123
[illegible]-di-n-prop.(1)	20	0.0	13	65	41-116
[illegible]-methylphenol	80	0.0	59	74	23- 97
Acenaphthene	20	0.0	13	65	46-118
4-Nitrophenol	80	0.0	67	84*	10- 80
[illegible]luene	20	0.0	14	70	24- 96
[illegible]phenol	80	0.0	100	125*	9-103
[illegible]	20	0.0	16	80	26-127

COMPOUND	SPIKE ADDED (UG/L)	MSD CONCENTRATION (UG/L)	MSD % REC #	RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	80	48	60	2	42	12-110
2-Chlorophenol	80	47	59	2	40	27-123
[illegible]-di-n-prop.(1)	20	11	55	17	38	41-116
[illegible]-methylphenol	80	56	70	6	42	23- 97
Acenaphthene	20	13	65	0	31	46-118
4-Nitrophenol	80	59	74	13	50	10- 80
[illegible]luene	20	14	70	0	38	24- 96
[illegible]phenol	80	90	113*	10	50	9-103
[illegible]	20	16	80	0	31	26-127

(1) [illegible]-di-n-propylamine

[illegible] be used to flag recovery and RPD values with an asterisk
* [illegible] outside of QC limits

RPD: [illegible] out of 9 outside limits
Spike Recovery: 3 out of 18 outside limits

COMMENTS: _____

c. Method Blank Summary (Form IV LCSV)

If more than a single form is necessary, forms shall be arranged in chronological order by date of analysis of the blanks and by instrument.

4LCB
LOW CONCENTRATION WATER
SEMIVOLATILE METHOD BlANK SUMMARY

EPA SAMPLE NO.

SBLKNX

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 81076 Date Extracted: 09/27/2005

Lab File ID: 81076A60 Date Analyzed: 10/06/2005

Instrument ID: 5972HP60 Time Analyzed: 1612

THIS METHOD BLANK APPLIES TO THE FOLLOWING ANALYSES:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	ACSGWPWA26	782901	782901A60	10/06/2005
02	ACSGWPWDUP26	782902	782902A60	10/06/2005
03	ACSGWPWB26	782903	782903A60	10/06/2005
04	ACSGWPWT26	782904	782904A60	10/06/2005
05	ACSGWPWB26MS	81085	81085A60	10/07/2005
06	ACSGWPWB26MS	81086	81086A60	10/07/2005
07	ACSGWPWC26	782905	782905A60	10/07/2005
08	ACSGWPWD26	782907	782907A60	10/07/2005
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS: _____

d. GC/MS Instrument Performance Check (Form V LCSV)

If more than a single form is necessary, forms shall be arranged in chronological order, by instrument.

5LCB

LOW CONCENTRATION WATER SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab File ID: DF050310A60 DFTPP Injection Date: 03/10/2005

Instrument ID: 5972HP60 DFTPP Injection Time: 0828

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	44.5
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	55.1
70	Less than 2.0% of mass 69	0.2 (0.4)1
127	25.0 - 75.0% of mass 198	44.4
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 30.0% of mass 198	18.1
365	Greater than 0.75% of mass 198	1.42
441	Present, but less than mass 443	8.6
442	40.0 - 110.0% of mass 198	54.9
443	15.0 - 24.0% of mass 442	10.7 (19.5)2

1-Value is % mass 69 2-Value is % mass 442

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD020V0	SSTD020V0	HG050310A60	03/10/2005	0902
02	SSTD080V0	SSTD080V0	HH050310A60	03/10/2005	0959
03	SSTD005V0	SSTD005V0	HI050310A60	03/10/2005	1047
04	SSTD050V0	SSTD050V0	HJ050310A60	03/10/2005	1136
05	SSTD010V0	SSTD010V0	HK050310A60	03/10/2005	1224
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

5LCB

[illegible] WATER SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

[illegible] CHEM Contract: OLC03-REVS

[illegible] Case No.: Client No.: SDG No.: 7829

[illegible] HG051006A60 DFTPP Injection Date: 10/06/2005

[illegible] 5972HP60 DFTPP Injection Time: 0858

ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
[illegible] 80.0% of mass 198	39.8
[illegible] less than 2.0% of mass 69	0.0 (0.0)1
[illegible] mass 69 relative abundance	51.8
[illegible] less than 2.0% of mass 69	0.1 (0.2)1
[illegible] 75.0% of mass 198	42.0
[illegible] less than 1.0% of mass 198	0.0
[illegible] Peak, 100% relative abundance	100.0
[illegible] 9.0% of mass 198	6.9
[illegible] 30.0% of mass 198	19.1
[illegible] than 0.75% of mass 198	2.04
[illegible] present, but less than mass 443	12.3
[illegible] 110.0% of mass 198	76.3
[illegible] 24.0% of mass 442	14.8 (19.4)2

1-Value is % mass 69 2-Value is % mass 442

[illegible] CHECK APPLIES TO THE FOLLOWING SAMPLES, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTD020AU	SSTD020AU	HG051006A60	10/06/2005	0921
[illegible]	81076	81076A60	10/06/2005	1612
[illegible]	782901	782901A60	10/06/2005	1829
[illegible]	782902	782902A60	10/06/2005	1914
[illegible]	782903	782903A60	10/06/2005	2000
[illegible]	782904	782904A60	10/06/2005	2045

5LCB

LOW CONCENTRATION WATER SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab File ID: DF051007A60 DFTPP Injection Date: 10/07/2005

Instrument ID: 5972HP60 DFTPP Injection Time: 0754

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	40.5
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	51.1
70	Less than 2.0% of mass 69	0.1 (0.2)1
127	25.0 - 75.0% of mass 198	40.3
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 30.0% of mass 198	20.5
365	Greater than 0.75% of mass 198	2.13
441	Present, but less than mass 443	13.9
442	40.0 - 110.0% of mass 198	83.2
443	15.0 - 24.0% of mass 442	16.3 (19.6)2

1-Value is % mass 69 2-Value is % mass 442

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD020AV	SSTD020AV	HG051007A60	10/07/2005	0840
02	ACSGWPWB26MS	81085	81085A60	10/07/2005	0926
03	ACSGWPWB26MS	81086	81086A60	10/07/2005	1012
04	ACSGWPWC26	782905	782905A60	10/07/2005	1143
05	ACSGWPWD26	782907	782907A60	10/07/2005	1229
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

e. Internal Standard Area and RT Summary (Form VIII LCSV)

Internal standard area and retention time data for the initial calibration standards, the continuing calibration standard(s), and the associated sample(s).

Forms shall be arranged in chronological order, by instrument.

8LCB

LOW CONCENTRATION WATER SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

EPA Sample No. (SSTD020##): SSTD020AU Date Analyzed: 10/06/2005

Lab File ID (Standard): HG051006A60 Time Analyzed: 0921

Instrument ID: 5972HP60 GC Column: RTX-5MS ID:0.32(MM)

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
	12 HOUR STD	22099	9.13	92133	13.36	59801	17.45
	UPPER LIMIT	44198	9.46	184266	13.69	119602	17.78
	LOWER LIMIT	11050	8.80	46066	13.03	29900	17.12
	EPA SAMPLE NO.						
01	SBLKNX	20503	9.14	87922	13.36	56109	17.47
02	ACSGWPWA26	40250	9.14	168260	13.35	108763	17.46
03	ACSGWPWDUP26	24635	9.13	100624	13.35	65366	17.47
04	ACSGWPWB26	31022	9.14	126369	13.35	82733	17.47
05	ACSGWPWT26	28733	9.13	117534	13.36	72584	17.45
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.33 minutes of internal standard RT
RT LOWER LIMIT = - 0.33 minutes of internal standard RT

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

8LCC

LOW CONCENTRATION WATER SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab [illegible] COMPUCHEM Contract: OLC03-REVS

Lab [illegible] LABKEY Case No.: Client No.: SDG No.: 7829

[illegible] (SSTD020##): SSTD020AU Date Analyzed: 10/06/2005

Lab [illegible] Standard): HG051006A60 Time Analyzed: 0921

Instrument ID: 5972HP60 GC Column: RTX-5MS ID:0.32(MM)

	IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
12 HOUR STD	102328	20.57	88226	25.78	96476	28.53
UPPER LIMIT	204656	20.90	176452	26.11	192952	28.86
LOWER LIMIT	51164	20.24	44113	25.45	48238	28.20
[illegible] SAMPLE						
[illegible]						
[illegible]	93736	20.56	80542	25.77	88008	28.53
[illegible] ACS-WPWA26	178766	20.56	161205	25.77	172552	28.55
[illegible] ACS-WPW-UP26	112515	20.56	94310	25.77	104293	28.53
[illegible] ACS-WPW-26	138436	20.56	117859	25.77	133866	28.53
[illegible] ACS-WPW-UP	126642	20.57	112164	25.78	116875	28.53

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.33 minutes of internal standard RT
RT LOWER LIMIT = - 0.33 minutes of internal standard RT

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

page [illegible]

8LCB

LOW CONCENTRATION WATER SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBERTY Case No.: Client No.: SDG No.: 7829

EPA Sample No. (SSTD020##): SSTD020AV Date Analyzed: 10/07/2005

Lab Sample ID (Standard): HG051007A60 Time Analyzed: 0840

Instrument ID: 5972HP60 GC Column: RTX-5MS ID:0.32(MM)

	IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
12 HOUR STD	27911	9.14	113933	13.37	72140	17.47
UPPER LIMIT	55822	9.47	227866	13.70	144280	17.80
LOWER LIMIT	13956	8.81	56966	13.04	36070	17.14
EPA SAMPLE						
01 [illegible]WPWD26MS	28910	9.15	119217	13.38	78704	17.47
02 [illegible]WPWD26MS	23202	9.15	96718	13.36	62981	17.47
03 [illegible]WPWC26	25733	9.14	108179	13.37	67227	17.47
04 [illegible]WPWD26	22287	9.15	91771	13.38	58492	17.47
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.33 minutes of internal standard RT
RT LOWER LIMIT = - 0.33 minutes of internal standard RT

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

page 1 of

FORM VIII LCSV-1 OLC03.2

8LCC

LOW CONCENTRATION WATER SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

EPA Sample No. (SSTD020##): SSTD020AV Date Analyzed: 10/07/2005

Lab File ID (Standard): HG051007A60 Time Analyzed: 0840

Instrument ID: 5972HP60 GC Column: RTX-5MS ID:0.32(MM)

		IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
	12 HOUR STD	126145	20.58	111343	25.79	120916	28.55
	UPPER LIMIT	252290	20.91	222686	26.12	241832	28.88
	LOWER LIMIT	63072	20.25	55672	25.46	60458	28.22
===	EPA SAMPLE NO.						
01	ACSGWPWB26MS	127541	20.57	115369	25.78	123431	28.54
02	ACSGWPWB26MS	107019	20.57	90742	25.78	98151	28.54
03	ACSGWPWC26	112908	20.56	100275	25.77	112182	28.53
04	ACSGWPWD26	99620	20.57	86569	25.78	93777	28.54
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.33 minutes of internal standard RT
RT LOWER LIMIT = - 0.33 minutes of internal standard RT

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

2. Semivolatiles Sample Data

Sample data shall be arranged in packets with the Organic Analysis Data Sheet (Form I LCSV-1, LCSV-2, and LCSV-TIC), followed by the raw data for semivolatile samples. These sample packets shall be placed in increasing EPA sample number order, considering both letters and numbers.

a. Target Compound List (TCL) Analyte Results (Form I LCSV-1, LCSV-2)
Tabulated results (identification and quantitation) shall be included.

b. Tentatively Identified Compounds (Form I LCSV-TIC)
Lists up to 30 organic compounds that are not the deuterated monitoring compounds or internal standard compounds, and are not listed on the target compound list. This form shall be included even if no compounds are found.

c. Reconstructed total Ion Chromatograms (RICs)
Include for each sample or sample extract, including dilutions and reanalyses. The RIC shall contain the following header information: EPA sample number, date and time of analysis, GC/MS instrument identifier, lab file identifier, and analyst ID.

d. Quantitation Report showing calculations for TCL analytes
- Include a printout of the EICP for all manual changes to all compounds, internal standards, and deuterated monitoring compounds.

e. Copies of raw spectra and copies of background-subtracted mass spectra of TCL analytes identified in the sample.
- The spectra shall include the following information: EPA sample number, Lab file ID, date and time of analysis, and instrument ID.
- The compound name must be clearly marked.

f. Quantitation Report showing calculations for TICs (if applicable)

g. Copies of mass spectra of organic compounds not listed on the target compound list, Tentatively Identified Compounds (TICs), with associated best-match spectra. (if applicable)
Spectra shall be labeled as follows: EPA sample number, lab file ID, date and time of analysis, and instrument ID. The compound name must be clearly marked.

1LCC
LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

ACSGWPWA26

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 782901 Date Received: 09/26/2005

Lab File ID: 782901A60 Date Extracted: 09/27/2005

Sample Volume: 1000(ML) Date Analyzed: 10/06/2005

Concentrated Extract Volume: 1000(UL) Dilution Factor: 1.0

Injection Volume: 1.0(UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
100-52-7	Benzaldehyde	5.0	U
108-95-2	Phenol	5.0	U
111-44-4	bis(2-Chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	5.0	U
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5.0	U
98-86-2	Acetophenone	5.0	U
106-44-5	4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	5.0	U
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	bis(2-Chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0	U
106-47-8	4-Chloroaniline	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	5.0	U
59-50-7	4-Chloro-3-methylphenol	5.0	U
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	U
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	20	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5.0	U

1LCD
LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

ACSGWPWA26

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 782901 Date Received: 09/26/2005

Lab File ID: 782901A60 Date Extracted: 09/27/2005

Sample Volume: 1000(ML) Date Analyzed: 10/06/2005

Concentrated Extract Volume: 1000(UL) Dilution Factor: 1.0

Injection Volume: 1.0(UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	5.0	U
84-66-2	Diethylphthalate	5.0	U
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-nitrosodiphenylamine (1)	5.0	U
95-94-3	1,2,4,5 Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	5.0	U
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
84-74-2	Di-n-butylphthalate	5.0	U
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	5.0	U
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo(a)anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	bis(2-Ethylhexyl)phthalate	5.0	U
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo(b)fluoranthene	5.0	U
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U
53-70-3	Dibenzo(a,h)anthracene	5.0	U
191-24-2	Benzo(g,h,i)perylene	5.0	U

(1) - Cannot be separated from Diphenylamine

1LCG

LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ACSGWPWA26

Lab Name: CHEMTECH Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 782901 Date Received: 09/26/2005

Lab File ID: 782901A60 Date Extracted: 09/27/2005

Sample Volume: 1000(ML) Date Analyzed: 10/06/2005

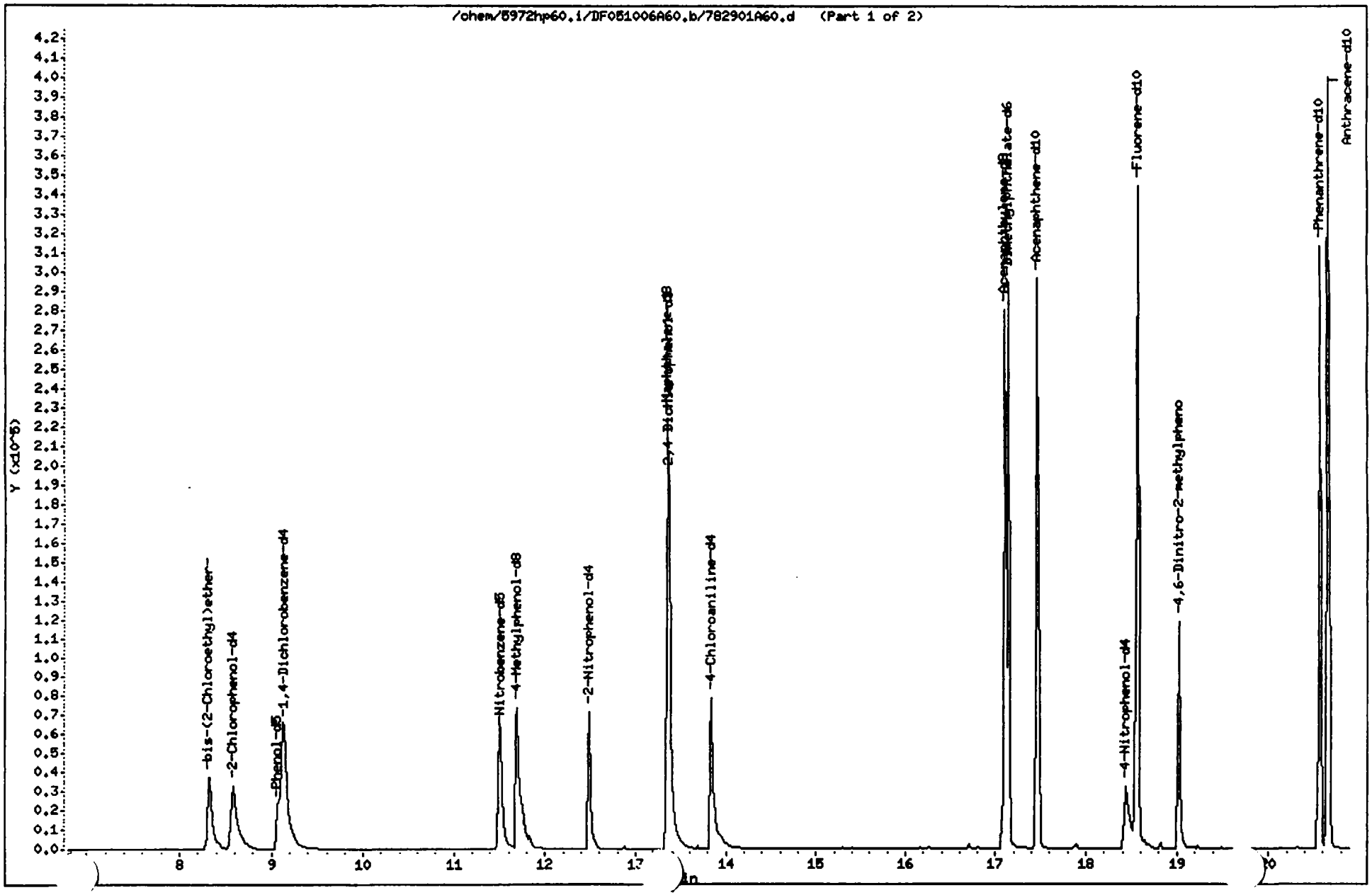
Concentrated Extract Volume: 1000(UL) Dilution Factor: 1.0

Injection Volume: 1.0(UL)

Number TICs found: 0

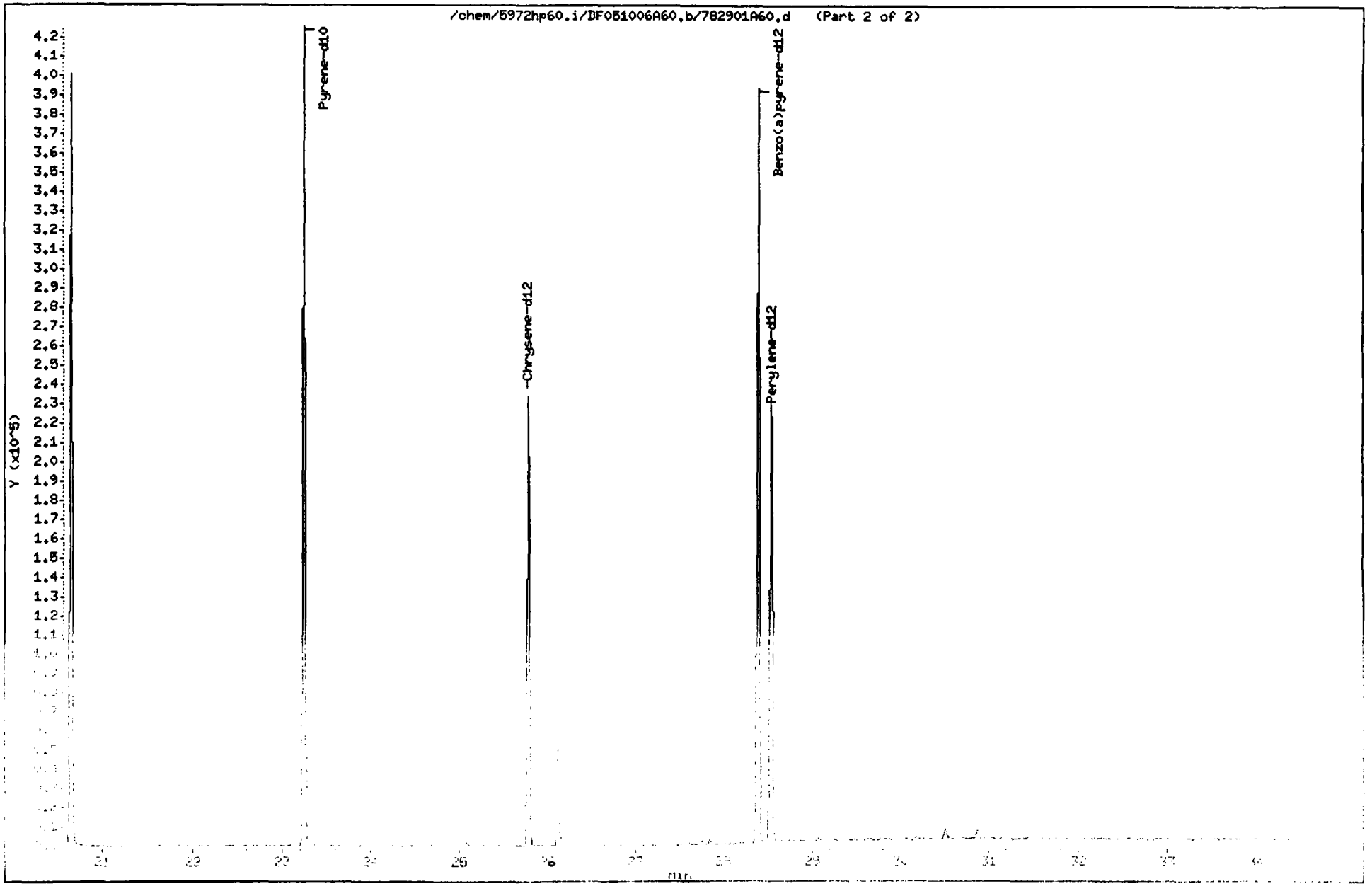
	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

Data File: /chem/5972hp60.i/DF051006A60.b/782901A60.d
Date : 06-OCT-2005 18:29
Client ID: ACSGWPWA26
Instrument: 5972hp60.i
Sample Info:
Volume Injected (uL): 1.0
Operator: 917
Column phase: RTX-5MS
Column diameter: 0.32



Data File: /chem/5972hp60.i/DF051006A60.b/782901A60.d
Date : 06-OCT-2005 18:29
Client ID: ACSGWPWA26
Sample Info:
Volume Injected (uL): 1.0
Column phase: RTX-5MS

Instrument: 5972hp60.i
Operator: 917
Column diameter: 0.32



Data File: /chem/5972hp60.i/DF051006A60.b/782901A60.d
Report Date: 07-Oct-2005 14:23

CompuChem

OLC03.0 + REVISIONS QUANT AND RATIO REPORT

Data file : /chem/5972hp60.i/DF051006A60.b/782901A60.d
Lab Smp Id: 782901 Client Smp ID: ACSGWPWA26
Inj Date : 06-OCT-2005 18:29
Operator : 917 Inst ID: 5972hp60.i
Smp Info :
Misc Info :
Comment :
Method : /chem/5972hp60.i/DF051006A60.b/OLC03v5.m
Meth Date : 07-Oct-2005 10:57 henning Quant Type: ISTD
Cal Date : 06-OCT-2005 09:21 Cal File: HG051006A60.d
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: OLC03.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/(Vo * Vi) * CpndVariable

Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)	SIMILARITY
* 1	1,4-Dichlorobenzene-d4	152	9.141	9.130	(1.000)	40250	20.0000		
* 2	Naphthalene-d8	136	13.353	13.359	(1.000)	168260	20.0000		9005
* 3	Acenaphthene-d10	164	17.464	17.453	(1.000)	108763	20.0000		7917
* 4	Phenanthrene-d10	188	20.560	20.566	(1.000)	178766	20.0000		8783
* 5	Chrysene-d12	240	25.771	25.777	(1.000)	161205	20.0000		8117
* 6	Perylene-d12	264	28.546	28.534	(1.000)	172552	20.0000		8658
$ 7	Phenol-d5	99	9.073	9.079	(0.993)	72556	19.7572	20	7129
$ 8	bis-(2-Chloroethyl)ether-d8	67	8.312	8.317	(0.909)	47242	20.8630	21	8816
$ 9	2-Chlorophenol-d4	132	8.583	8.571	(0.939)	56603	19.9043	20	8855
$ 10	4-Methylphenol-d8	113	11.695	11.701	(1.279)	69942	22.6703	23	9476
$ 11	Nitrobenzene-d5	128	11.509	11.498	(0.862)	32483	21.2376	21	7925
$ 12	2-Nitrophenol-d4	143	12.491	12.479	(0.935)	39277	21.1690	21	8982
$ 13	2,4-Dichlorophenol-d3	165	13.370	13.359	(1.001)	67833	21.7642	22	7672
$ 14	4-Chloroaniline-d4	131	13.844	13.833	(1.037)	80126	19.2455	19	8976
$ 15	Dimethylphthalate-d6	166	17.143	17.132	(0.982)	208831	25.7150	26	9587
$ 16	Acenaphthylene-d8	160	17.092	17.098	(0.979)	258832	23.4479	23	9444
$ 17	4-Nitrophenol-d4	143	18.429	18.400	(1.055)	34746	32.5457	33	6397(M)
$ 18	Fluorene-d10	176	18.564	18.553	(1.063)	171370	25.7436	26	9504
$ 19	4,6-Dinitro-2-methylphenol-d2	200	19.021	19.026	(0.925)	38765	26.0855	26	7592

2

10/7/05 JH

Data File : /chem/5972hp60.i/DF051006A60.b/782901A60.d
Report Date: 07-Oct-2005 14:23

	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)	SIMILARITY
[illegible]	188	20.662	20.650	(1.005)	259250	29.1365	29	9438(H)
[illegible]	212	23.250	23.256	(0.902)	278464	27.5719	28	9207
[illegible]	264	28.393	28.382	(0.995)	257734	27.0009	27	8346(H)
[illegible]	77	Compound Not Detected.						
[illegible]	94	Compound Not Detected.						
[illegible]	93	Compound Not Detected.						
[illegible]	128	Compound Not Detected.						
[illegible]	108	Compound Not Detected.						
[illegible]	45	Compound Not Detected.						
[illegible]	105	Compound Not Detected.						
[illegible]	108	Compound Not Detected.						
[illegible]	70	Compound Not Detected.						
[illegible]	117	Compound Not Detected.						
[illegible]	77	Compound Not Detected.						
[illegible]	82	Compound Not Detected.						
[illegible]	139	Compound Not Detected.						
[illegible]	107	Compound Not Detected.						
[illegible]	93	Compound Not Detected.						
[illegible]	162	Compound Not Detected.						
[illegible]	128	Compound Not Detected.						
[illegible]	127	Compound Not Detected.						
[illegible]	225	Compound Not Detected.						
[illegible]	113	Compound Not Detected.						
[illegible]	107	Compound Not Detected.						
[illegible]	142	Compound Not Detected.						
[illegible]	216	Compound Not Detected.						
[illegible]	237	Compound Not Detected.						
[illegible]	196	Compound Not Detected.						
[illegible]	196	Compound Not Detected.						
[illegible]	154	Compound Not Detected.						
[illegible]	162	Compound Not Detected.						
[illegible]	65	Compound Not Detected.						
[illegible]	163	Compound Not Detected.						
[illegible]	165	Compound Not Detected.						
[illegible]	152	Compound Not Detected.						
[illegible]	138	Compound Not Detected.						
[illegible]	153	Compound Not Detected.						
[illegible]	184	Compound Not Detected.						
[illegible]	109	Compound Not Detected.						
[illegible]	168	Compound Not Detected.						
[illegible]	165	Compound Not Detected.						
[illegible]	149	Compound Not Detected.						
[illegible]	166	Compound Not Detected.						
[illegible]	204	Compound Not Detected.						
[illegible]	138	Compound Not Detected.						
[illegible]	198	Compound Not Detected.						
[illegible]	169	Compound Not Detected.						

10/10/05 DH

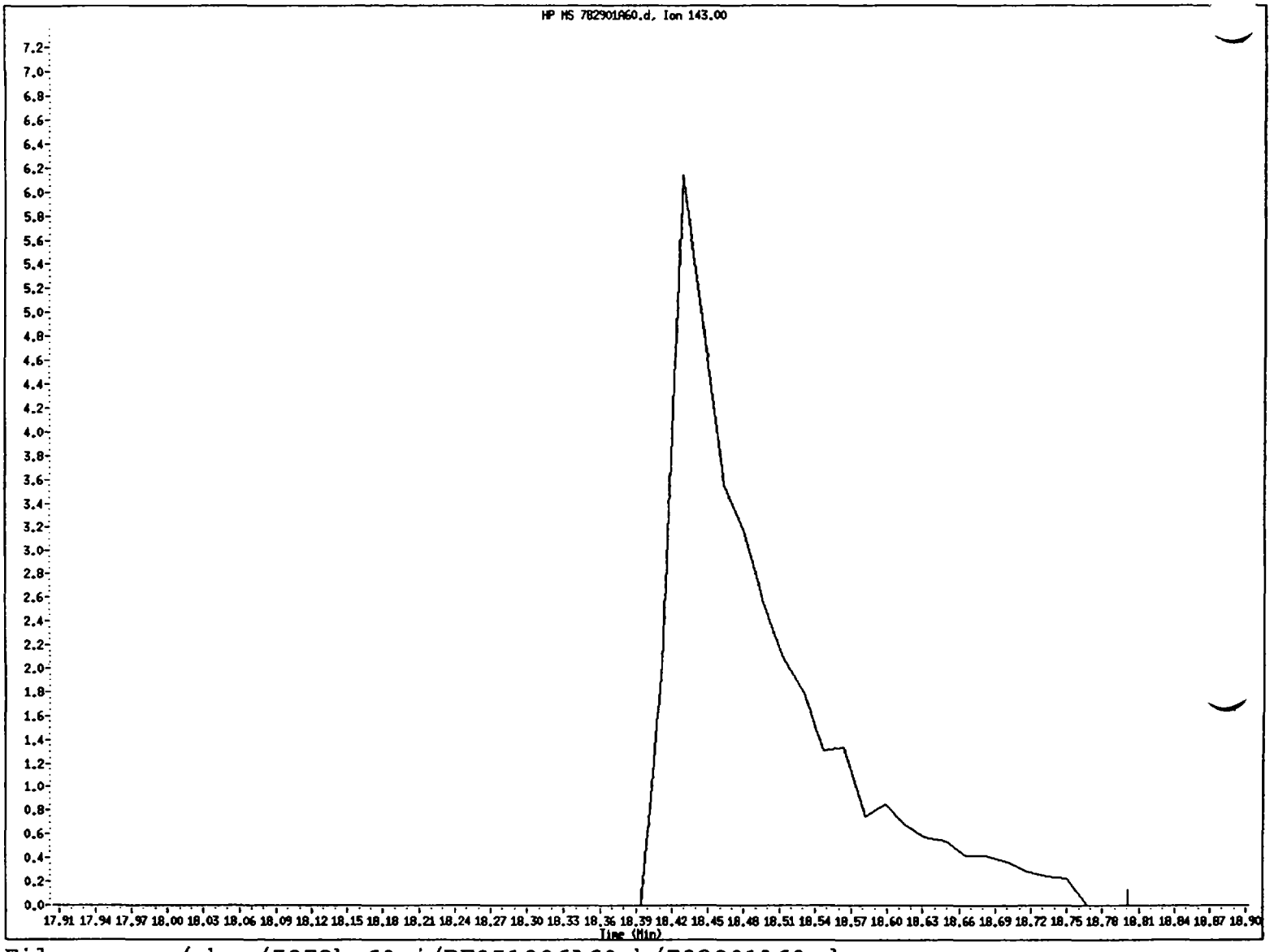
[illegible]chem/5972hp60.i/DF051006A60.b/782901A60.d
[illegible] 27-Oct-2005 14:23

	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)	SIMILARITY
[illegible]	248	Compound Not Detected.						
[illegible]	284	Compound Not Detected.						
[illegible]	200	Compound Not Detected.						
[illegible]	266	Compound Not Detected.						
[illegible]	178	Compound Not Detected.						
[illegible]	178	Compound Not Detected.						
[illegible]	149	Compound Not Detected.						
[illegible]	202	Compound Not Detected.						
[illegible]	202	Compound Not Detected.						
[illegible]	149	Compound Not Detected.						
[illegible]	252	Compound Not Detected.						
[illegible]	149	Compound Not Detected.						
[illegible]	228	Compound Not Detected.						
[illegible]	228	Compound Not Detected.						
[illegible]	149	Compound Not Detected.						
[illegible]	252	Compound Not Detected.						
[illegible]	252	Compound Not Detected.						
[illegible]	252	Compound Not Detected.						
[illegible]	276	Compound Not Detected.						
[illegible]	278	Compound Not Detected.						
[illegible]	276	Compound Not Detected.						

[illegible]

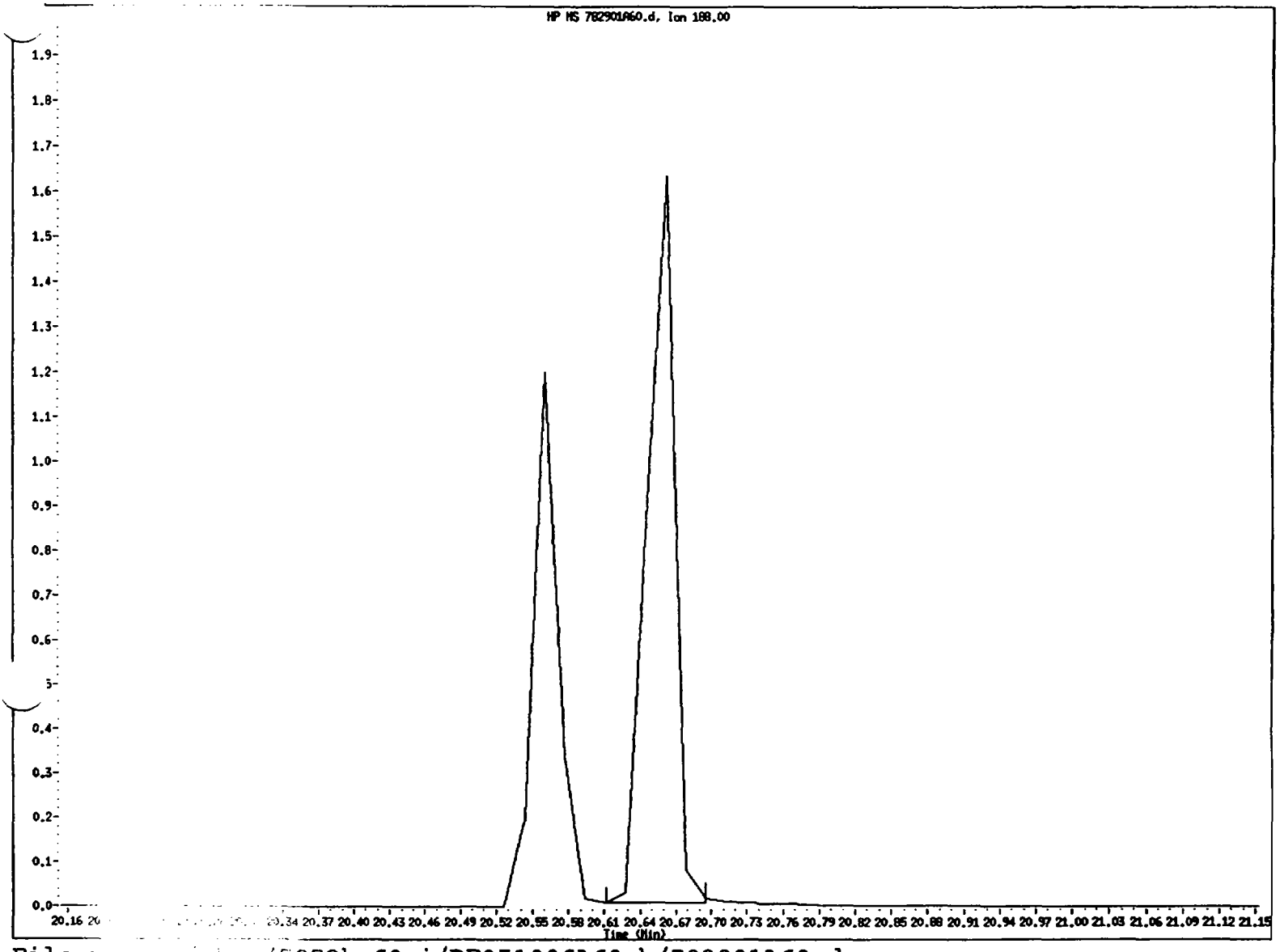
M - [illegible] response manually integrated.
H - Operator selected an alternate compound hit.

4-Nitrophenol-d4 CAS Number 93951-79-2 Area = 34746 Manually integrated



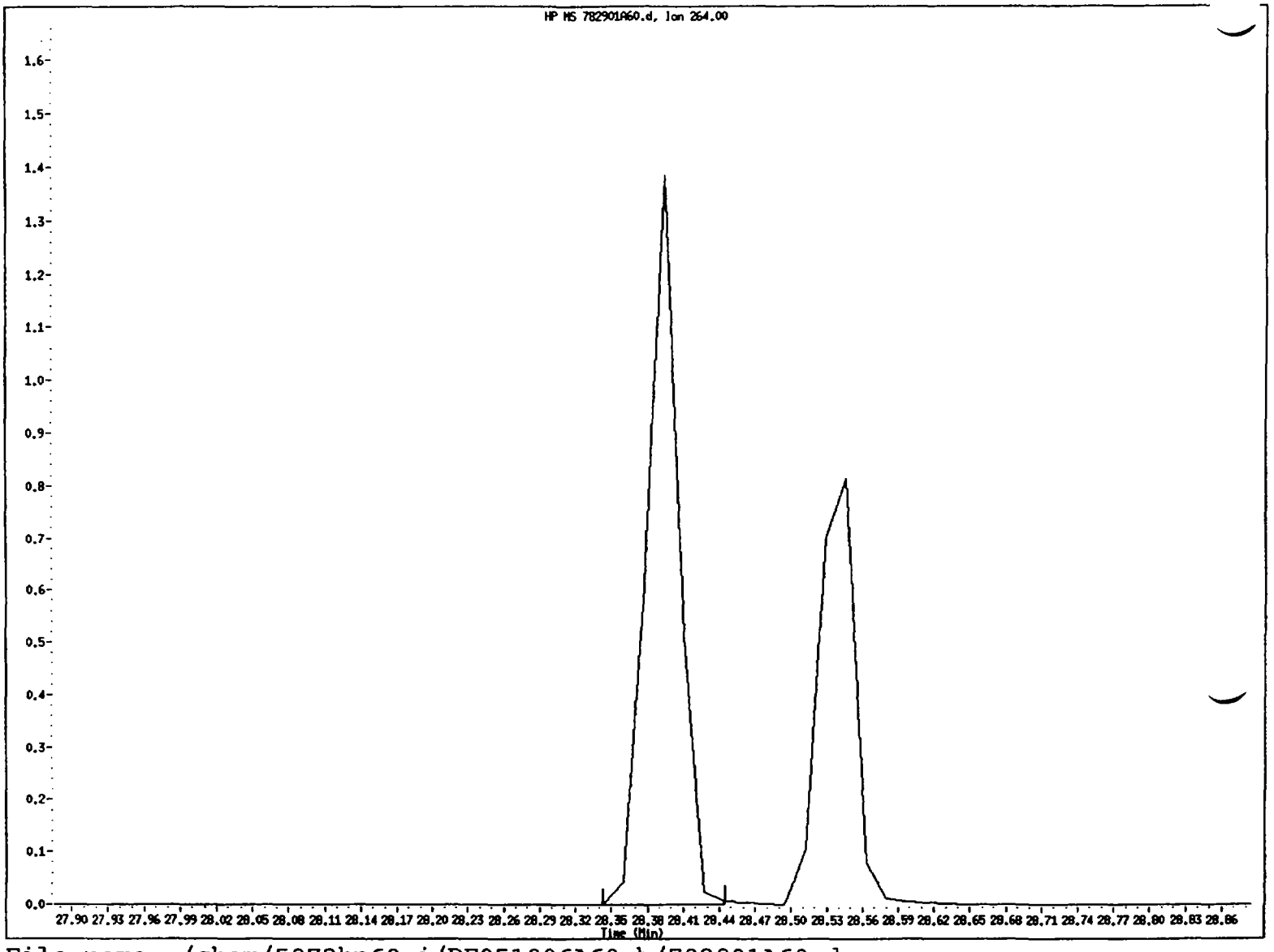
File name: /chem/5972hp60.i/DF051006A60.b/782901A60.d
Client ID: ACSGWPWA26
Instrument ID: 5972hp60.i
Injection Date and Time: 06-OCT-2005 18:29
Retention Time: 18.43
Operator ID: 917

Anthr[illegible] CAS Number 1719-06-8 Area = 259250 User selected hit



File [illegible]/5972hp60.i/DF051006A60.b/782901A60.d
Client [illegible]WPWA26
Instrument ID: 5972hp60.i
Injection Date and Time: 06-OCT-2005 18:29
Retention Time: 20.66
Operator ID: [illegible]

Benzo(a)pyrene-d12 CAS Number 63466-71-7 Area = 257734 User selected hit



File name: /chem/5972hp60.i/DF051006A60.b/782901A60.d
Client ID: ACSGWPWA26
Instrument ID: 5972hp60.i
Injection Date and Time: 06-OCT-2005 18:29
Retention Time: 28.39
Operator ID: 917

Data file: /chem/5972hp60.i/DF051006A60.b/782901A60.d
Report Date: 17-Oct-2005 14:23

CompuChem

OLC03.0 + REVISIONS QUANT AND RATIO REPORT

Data file: /chem/5972hp60.i/DF051006A60.b/782901A60.d
Lab Smp Id: 782901 Client Smp ID: ACSGWPWA26
Inj Date: 14-OCT-2005 18:29
Operator: HJ Inst ID: 5972hp60.i
Smp Info:
Misc Info:
Comment:
Method: /chem/5972hp60.i/DF051006A60.b/OLC03v5.m
Meth Date: 17-Oct-2005 10:57 henning Quant Type: ISTD
Cal Date: 14-OCT-2005 09:21 Cal File: HG051006A60.d
Als bottle: 13
Dil Factor: 1.0000
Integrator: HP RTE Compound Sublist: OLC03.sub
Target Version: 3.50

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

1LCC
LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

ACSGWPWB26

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 782903 Date Received: 09/27/2005

Lab File ID: 782903A60 Date Extracted: 09/27/2005

Sample Volume: 1100(ML) Date Analyzed: 10/06/2005

Concentrated Extract Volume: 1000(UL) Dilution Factor: 1.0

Injection Volume: 1.0(UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
[illegible]	Benzaldehyde	5.0	U
108-95-2	Phenol	5.0	U
[illegible]	bis(2-Chloroethyl)ether	5.0	U
[illegible]	2-Chlorophenol	5.0	U
[illegible]	2-Methylphenol	5.0	U
[illegible]	2,2'-oxybis(1-Chloropropane)	5.0	U
[illegible]	Acetophenone	5.0	U
[illegible]	4-Methylphenol	5.0	U
[illegible]	N-Nitroso-di-n-propylamine	5.0	U
[illegible]	Hexachloroethane	5.0	U
[illegible]	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
[illegible]	2,4-Dimethylphenol	5.0	U
[illegible]	bis(2-Chloroethoxy)methane	5.0	U
[illegible]	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0	U
[illegible]	4-Chloroaniline	5.0	U
[illegible]	Hexachlorobutadiene	5.0	U
[illegible]	Caprolactam	5.0	U
[illegible]	4-Chloro-3-methylphenol	5.0	U
[illegible]	2-Methylnaphthalene	5.0	U
[illegible]	Hexachlorocyclopentadiene	5.0	U
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	20	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
[illegible]	2-Nitroaniline	20	U
[illegible]	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
[illegible]	3-Nitroaniline	20	U
[illegible]	Acenaphthene	5.0	U

FORM I LCSV-1 OLC03.2

1LCD
LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

ACSGWPWB26

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 782903 Date Received: 09/27/2005

Lab File ID: 782903A60 Date Extracted: 09/27/2005

Sample Volume: 1100(ML) Date Analyzed: 10/06/2005

Concentrated Extract Volume: 1000(UL) Dilution Factor: 1.0

Injection Volume: 1.0(UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	5.0	U
84-66-2	Diethylphthalate	5.0	U
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-nitrosodiphenylamine (1)	5.0	U
95-94-3	1,2,4,5 Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	5.0	U
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
84-74-2	Di-n-butylphthalate	5.0	U
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	5.0	U
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo(a)anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	bis(2-Ethylhexyl)phthalate	4.8	BJ
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo(b)fluoranthene	5.0	U
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U
53-70-3	Dibenzo(a,h)anthracene	5.0	U
191-24-2	Benzo(g,h,i)perylene	5.0	U

(1) - Cannot be separated from Diphenylamine

1LCG
LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ACSGWPWB26

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 782903 Date Received: 09/27/2005

Lab File ID: 782903A60 Date Extracted: 09/27/2005

Sample Volume: 1100(ML) Date Analyzed: 10/06/2005

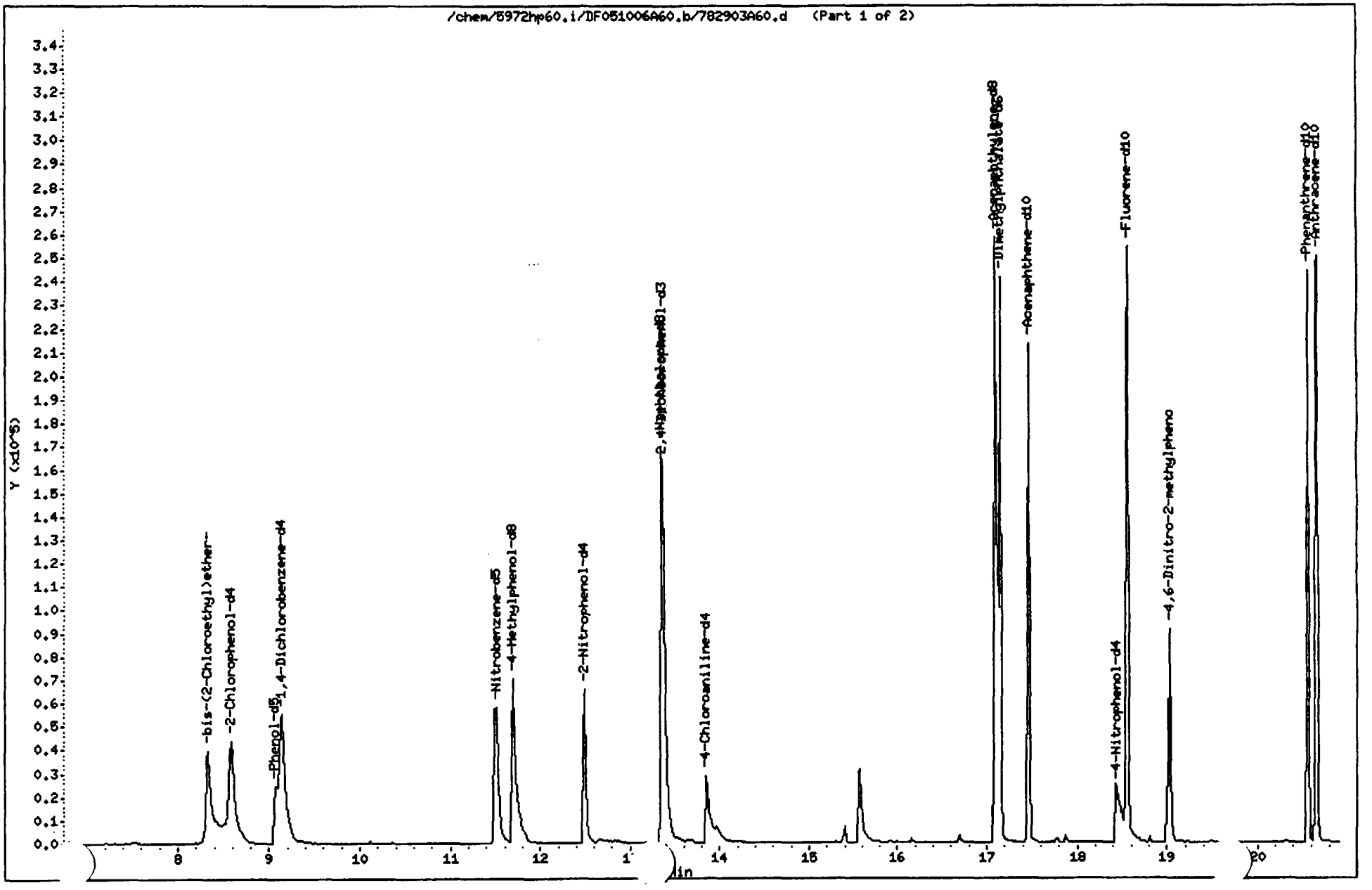
Concentrated Extract Volume: 1000(UL) Dilution Factor: 1.0

Injection Volume: 1.0(UL)

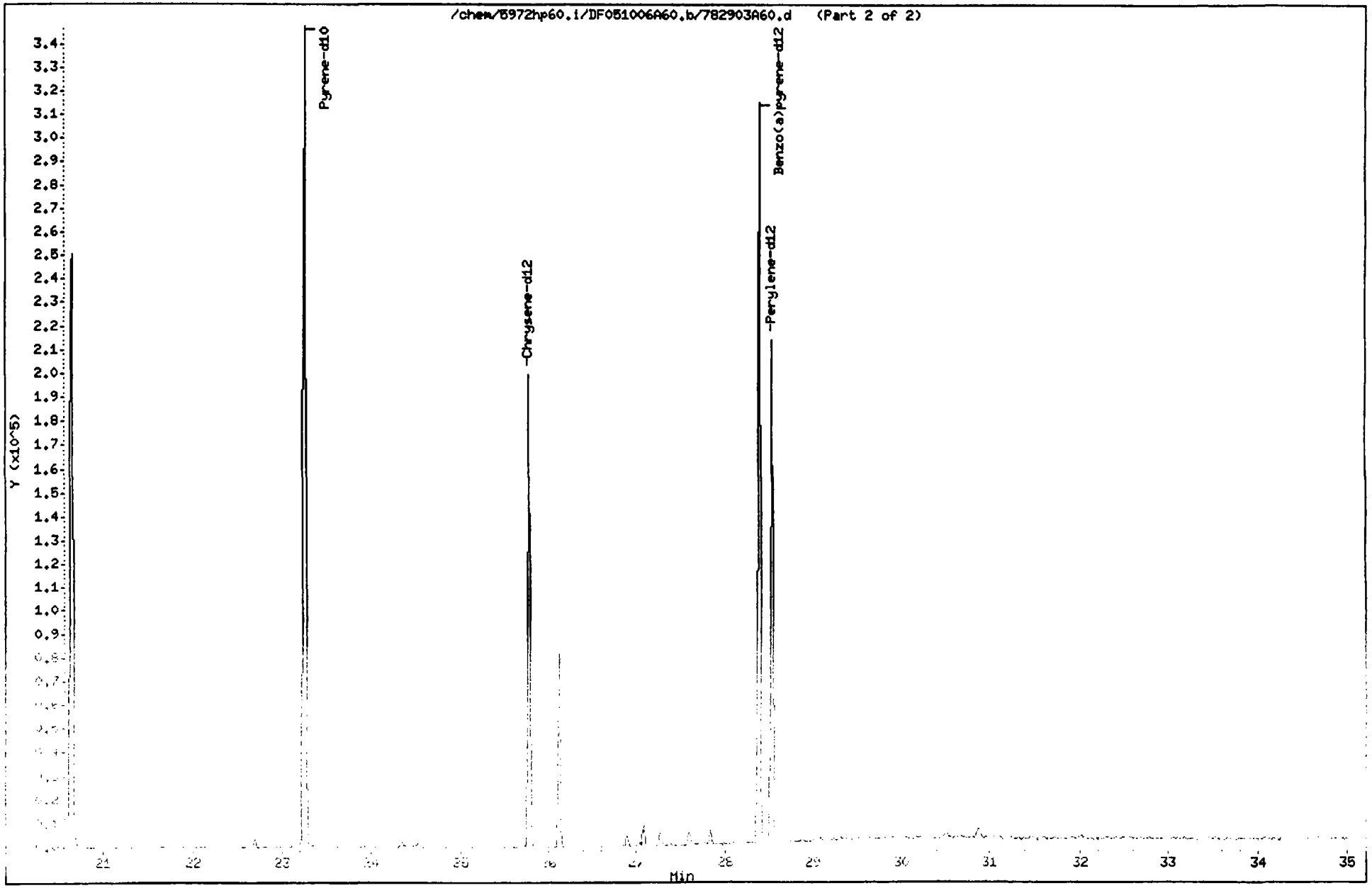
Number TICs found: 2

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
01	85-44-9	PHTHALIC ANHYDRIDE	15.57	5.9	NJ
02		UNKNOWN	18.43	5.5	J
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

Data File: /chem/5972hp60.i/DF051006A60.b/782903A60.d
Date : 06-OCT-2005 20:00
Client ID: ACSGWPWB26 Instrument: 5972hp60.i
Sample Info:
Volume Injected (uL): 1.0 Operator: 917
Column phase: RTX-5MS Column diameter: 0.32



Data File: /chem/5972hp60.i/DF051006A60.b/782903A60.d
Date : 06-OCT-2005 20:00
Client ID: ACSGWPWB26
Instrument: 5972hp60.i
Sample Info:
Volume Injected (uL): 1.0
Operator: 917
Column phase: RTX-5MS
Column diameter: 0.32



Data [illegible]/5972hp60.i/DF051006A60.b/782903A60.d
[illegible] 17-Oct-2005 14:23

CompuChem

OLC03.0 + REVISIONS QUANT AND RATIO REPORT

Data [illegible]/5972hp60.i/DF051006A60.b/782903A60.d
Lab Smp [illegible] Client Smp ID: ACSGWPWB26
Inj Date [illegible]-OCT-2005 20:00
Operator [illegible] Inst ID: 5972hp60.i
Smp Info
Misc Info
Comment
Method /chem/5972hp60.i/DF051006A60.b/OLC03v5.m
Meth Date [illegible]-Oct-2005 10:57 henning Quant Type: ISTD
Cal Date [illegible]-OCT-2005 09:21 Cal File: HG051006A60.d
Als bottle [illegible]
DF [illegible]
Integrator [illegible] Compound Sublist: OLC03.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/(Vo * Vi) * CpndVariable

Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)	SIMILARITY
[illegible]	152	9.142	9.130	(1.000)	31022	20.0000		
[illegible]	136	13.354	13.359	(1.000)	126369	20.0000		8973
[illegible]	164	17.465	17.453	(1.000)	82733	20.0000		7838
[illegible]	188	20.561	20.566	(1.000)	138436	20.0000		8880
[illegible]	240	25.772	25.777	(1.000)	117859	20.0000		8235
[illegible]	264	28.529	28.534	(1.000)	133866	20.0000		8137(H)
$ [illegible]	99	9.074	9.079	(0.993)	72875	25.7470	23	7031(M) 2
$ [illegible]ether-d8	67	8.330	8.317	(0.911)	45439	26.0359	24	9130
$ [illegible]	132	8.583	8.571	(0.939)	56384	25.7252	23	9027
$ [illegible]	113	11.696	11.701	(1.279)	63343	26.6387	24	9478
$ [illegible]	128	11.510	11.498	(0.862)	29546	25.7210	23	8794
$ [illegible]	143	12.491	12.479	(0.935)	35315	25.3432	23	9125
$ [illegible]	165	13.371	13.359	(1.001)	60168	25.7045	23	7636
$ [illegible]	131	13.845	13.833	(1.037)	52314	16.7307	15	9428(M) 2
$ [illegible]	166	17.144	17.132	(0.982)	175418	28.3967	26	9459
$ [illegible]	160	17.093	17.098	(0.979)	217008	25.8442	23	9446
$ [illegible]	143	18.446	18.400	(1.056)	29278	36.0523	33	6434(M) 2
$ [illegible]	176	18.565	18.553	(1.063)	142119	28.0665	26	9432
$ [illegible]ethyl]phenol-d2	200	19.022	19.026	(0.925)	30098	26.1536	24	7648

10/7/05 pht

Data File: /chem/5972hp60.i/DF051006A60.b/782903A60.d
Report Date: 07-Oct-2005 14:23

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)	SIMILARITY
$ 20 Anthracene-d10	188	20.663	20.650	(1.005)	203982	29.6037	27	9265(H)
$ 21 Pyrene-d10	212	23.251	23.256	(0.902)	231391	31.3371	28	8944
$ 22 Benzo(a)pyrene-d12	264	28.394	28.382	(1.000)	214315	28.9407	26	8397(H)
23 Benzaldehyde	77	Compound Not Detected.						
24 Phenol	94	Compound Not Detected.						
25 bis(2-Chloroethyl)ether	93	Compound Not Detected.						
26 2-Chlorophenol	128	Compound Not Detected.						
27 2-Methylphenol	108	Compound Not Detected.						
28 2,2'-oxybis(1-Chloropropane)	45	Compound Not Detected.						
30 Acetophenone	105	Compound Not Detected.						
31 4-Methylphenol	108	Compound Not Detected.						
32 N-Nitroso-di-n-propylamine	70	Compound Not Detected.						
33 Hexachloroethane	117	Compound Not Detected.						
34 Nitrobenzene	77	Compound Not Detected.						
35 Isophorone	82	Compound Not Detected.						
36 2-Nitrophenol	139	Compound Not Detected.						
37 2,4-Dimethylphenol	107	Compound Not Detected.						
38 bis(2-Chloroethoxy)methane	93	Compound Not Detected.						
39 2,4-Dichlorophenol	162	Compound Not Detected.						
40 Naphthalene	128	Compound Not Detected.						
41 4-Chloroaniline	127	Compound Not Detected.						
42 Hexachlorobutadiene	225	Compound Not Detected.						
43 Caprolactam	113	Compound Not Detected.						
44 4-Chloro-3-methylphenol	107	Compound Not Detected.						
45 2-Methylnaphthalene	142	Compound Not Detected.						
46 1,2,4,5 Tetrachlorobenzene	216	Compound Not Detected.						
47 Hexachlorocyclopentadiene	237	Compound Not Detected.						
49 2,4,6-Trichlorophenol	196	Compound Not Detected.						
50 2,4,5-Trichlorophenol	196	Compound Not Detected.						
51 1,1'-Biphenyl	154	Compound Not Detected.						
52 2-Chloronaphthalene	162	Compound Not Detected.						
53 2-Nitroaniline	65	Compound Not Detected.						
54 Dimethylphthalate	163	Compound Not Detected.						
55 2,6-Dinitrotoluene	165	Compound Not Detected.						
56 Acenaphthylene	152	Compound Not Detected.						
57 3-Nitroaniline	138	Compound Not Detected.						
58 Acenaphthene	153	Compound Not Detected.						
59 2,4-Dinitrophenol	184	Compound Not Detected.						
60 4-Nitrophenol	109	Compound Not Detected.						
61 Dibenzofuran	168	Compound Not Detected.						
62 2,4-Dinitrotoluene	165	Compound Not Detected.						
63 Diethylphthalate	149	Compound Not Detected.						
64 Fluorene	166	Compound Not Detected.						
65 4-Chlorophenyl-phenylether	204	Compound Not Detected.						
66 4-Nitroaniline	138	Compound Not Detected.						
67 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.						
68 N-nitrosodiphenylamine	169	Compound Not Detected.						

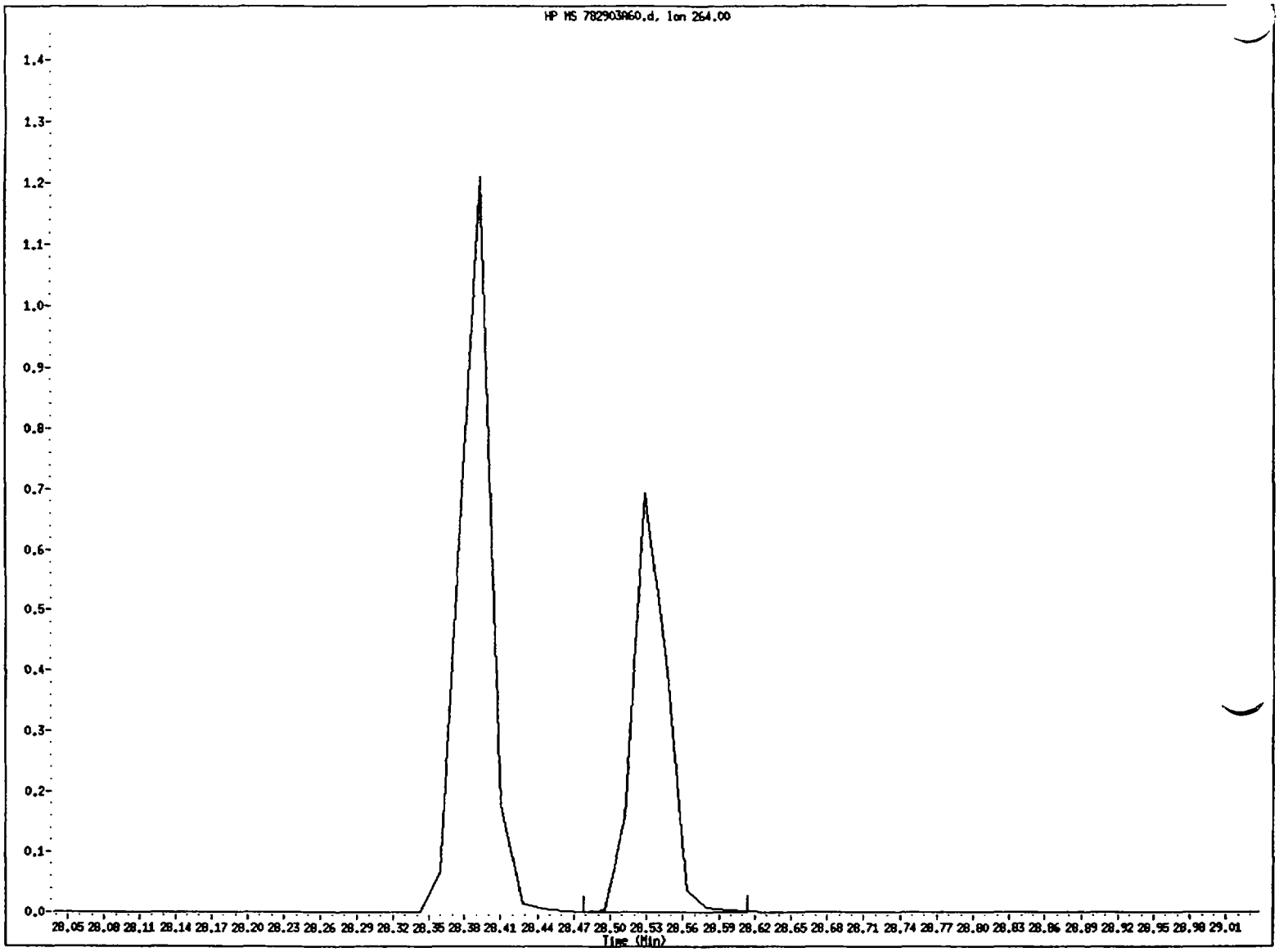
Data File: /chem/5972hp60.i/DF051006A60.b/782903A60.d
Report Date: 07-Oct-2005 14:23

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)	SIMILARITY
69 4-Bromophenyl-phenylether	248	Compound Not Detected.						
70 Hexachlorobenzene	284	Compound Not Detected.						
71 Atrazine	200	Compound Not Detected.						
72 Pentachlorophenol	266	Compound Not Detected.						
73 Phenanthrene	178	Compound Not Detected.						
74 Anthracene	178	Compound Not Detected.						
75 Di-n-butylphthalate	149	Compound Not Detected.						
76 Fluoranthene	202	Compound Not Detected.						
77 Pyrene	202	Compound Not Detected.						
78 Butylbenzylphthalate	149	Compound Not Detected.						
79 3,3'-Dichlorobenzidine	252	Compound Not Detected.						
80 bis(2-Ethylhexyl)phthalate	149	26.127	26.132	(1.014)	37641	5.33090	4.8	9301
81 Benzo(a)anthracene	228	Compound Not Detected.						
82 Chrysene	228	Compound Not Detected.						
83 Di-n-octylphthalate	149	Compound Not Detected.						
84 Benzo(b)fluoranthene	252	Compound Not Detected.						
85 Benzo(k)fluoranthene	252	Compound Not Detected.						
86 Benzo(a)pyrene	252	Compound Not Detected.						
87 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.						
88 Dibenzo(a,h)anthracene	278	Compound Not Detected.						
89 Benzo(g,h,i)perylene	276	Compound Not Detected.						

Flag Legend

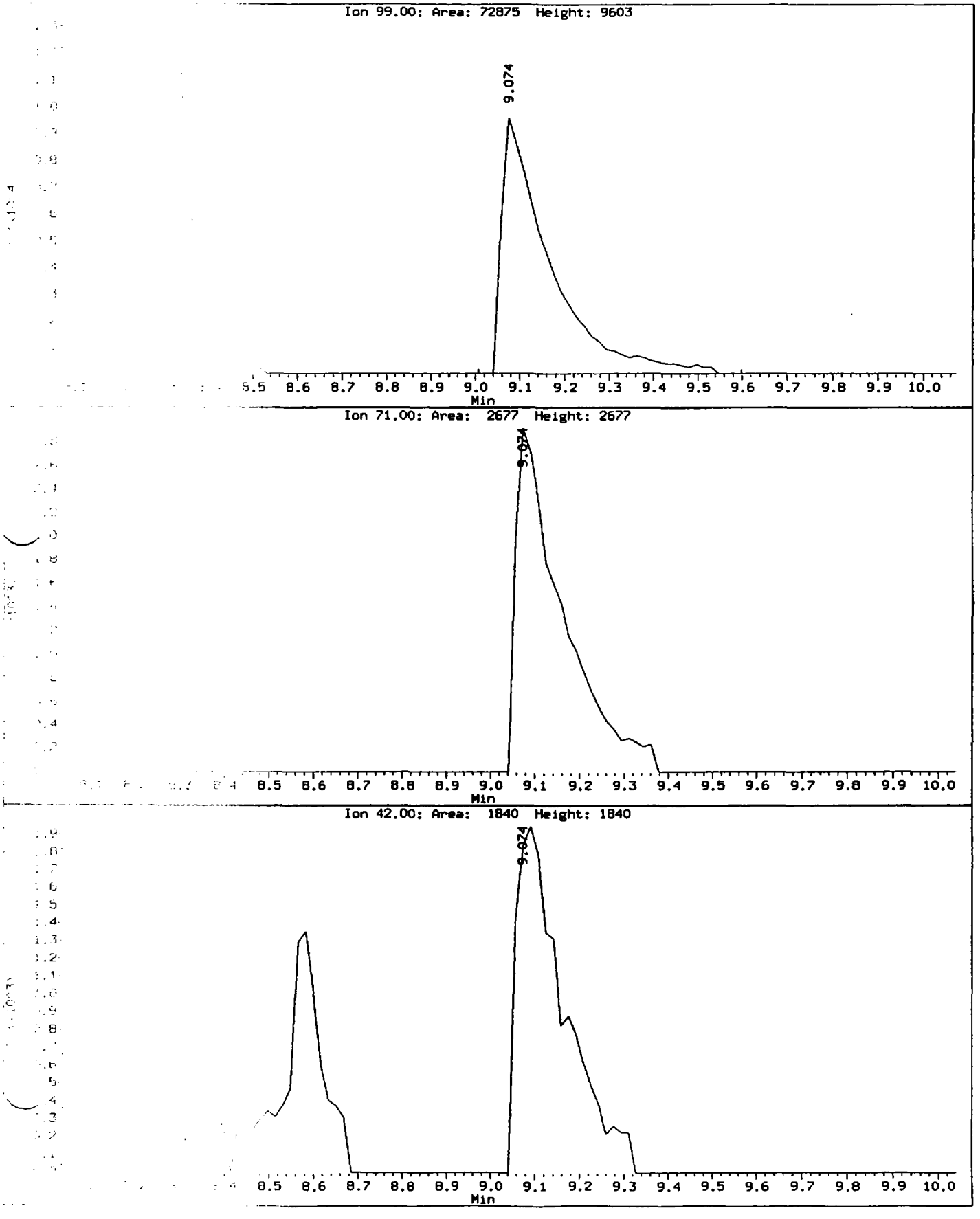
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Perylene-d12 CAS Number 1520-96-3 Area = 133866 User selected hit

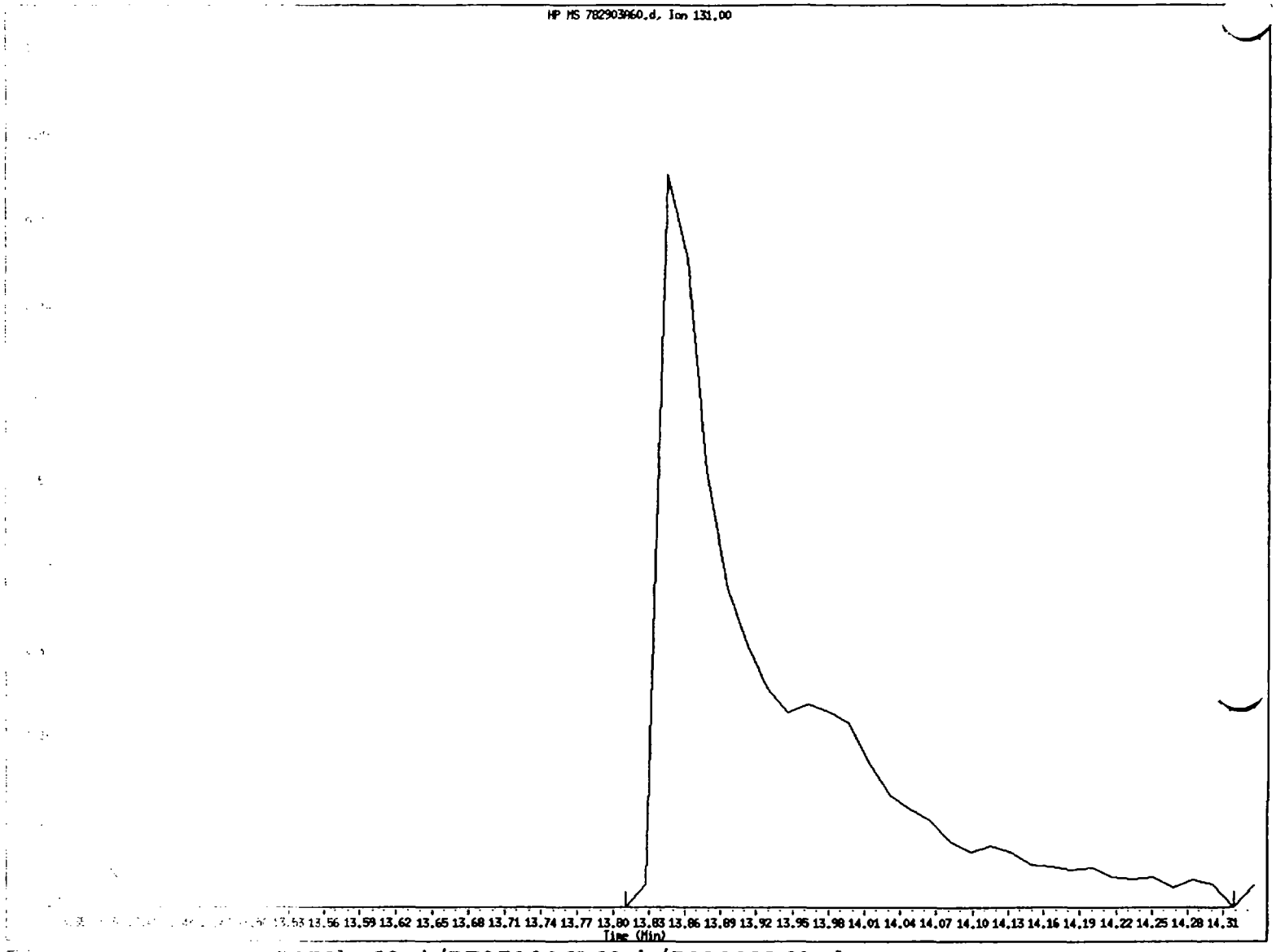


File name: /chem/5972hp60.i/DF051006A60.b/782903A60.d
Client ID: ACSGWPWB26
Instrument ID: 5972hp60.i
Injection Date and Time: 06-OCT-2005 20:00
Retention Time: 28.53
Operator ID: 917

DF051006A60.b/782903A60.d

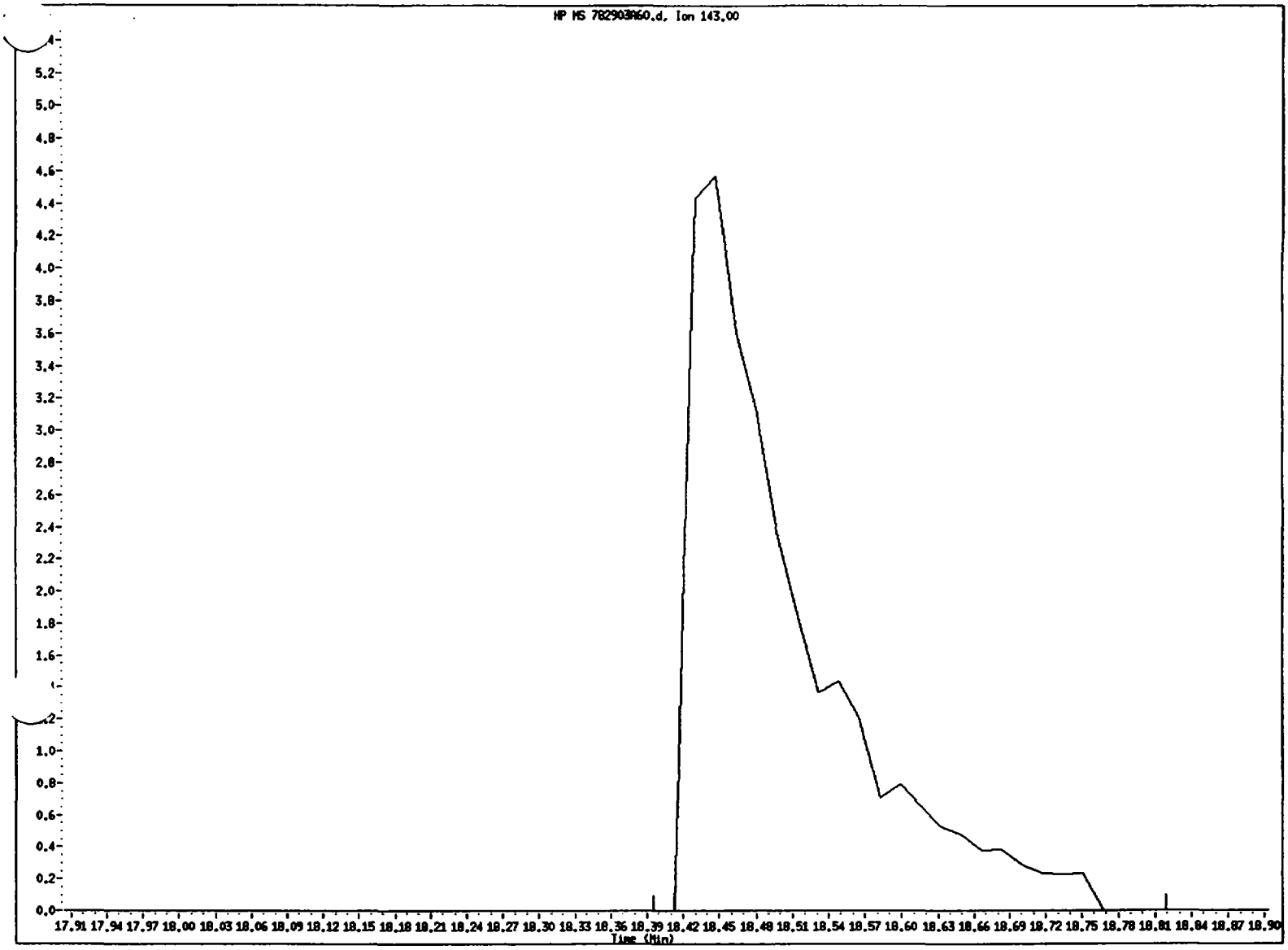


4 [illegible]34 CAS Number 191656-33-4 Area = 52314 Manually integrated



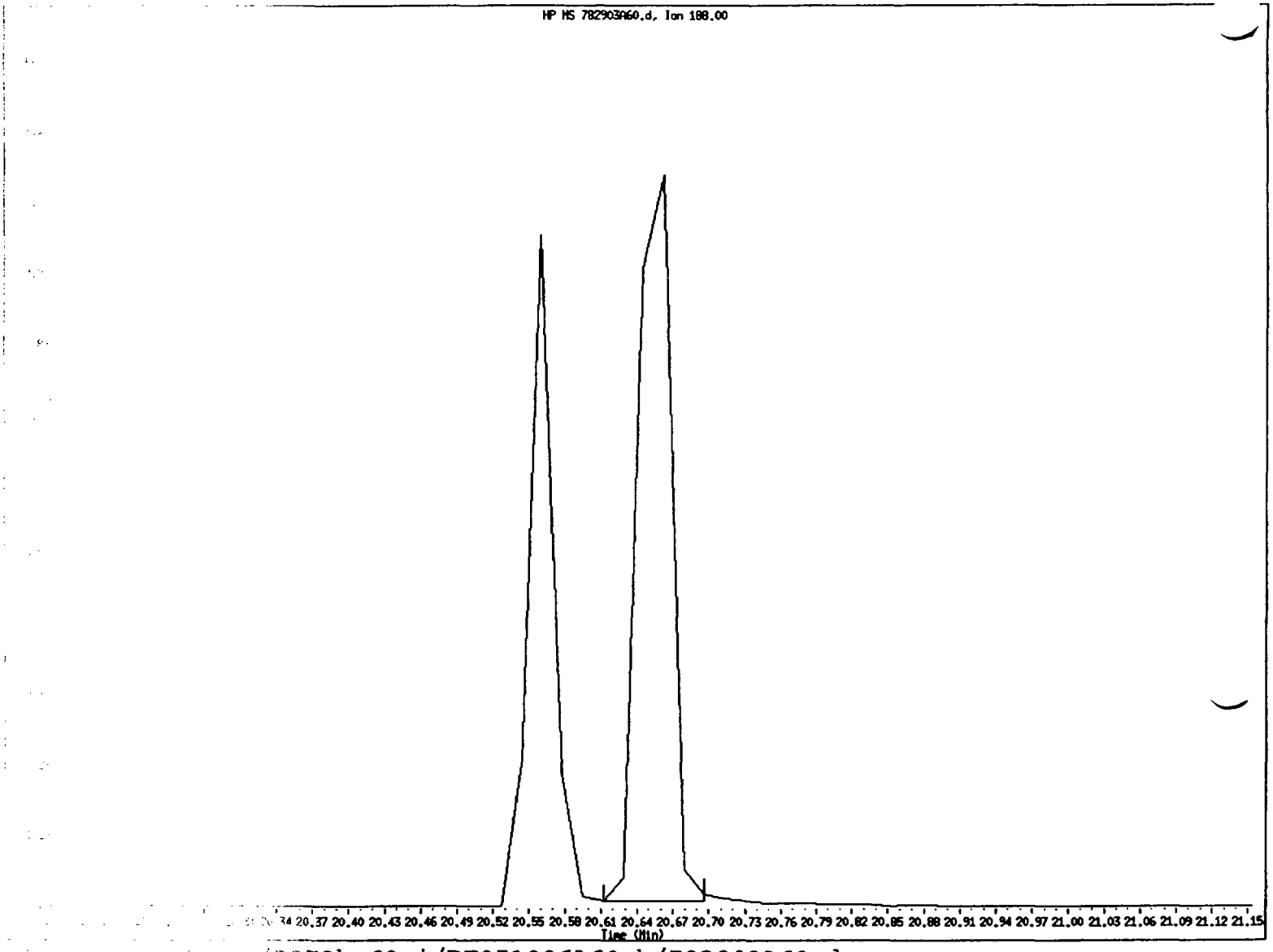
[illegible]5972hp60.i/DF051006A60.b/782903A60.d
[illegible]CWPWB26
[illegible]5972hp60.i
[illegible]d Time: 06-OCT-2005 20:00
Retention Time: 13.84
Qu[illegible]917

4-Nitrophenol-d4 CAS Number 93951-79-2 Area = 29278 Manually integrated



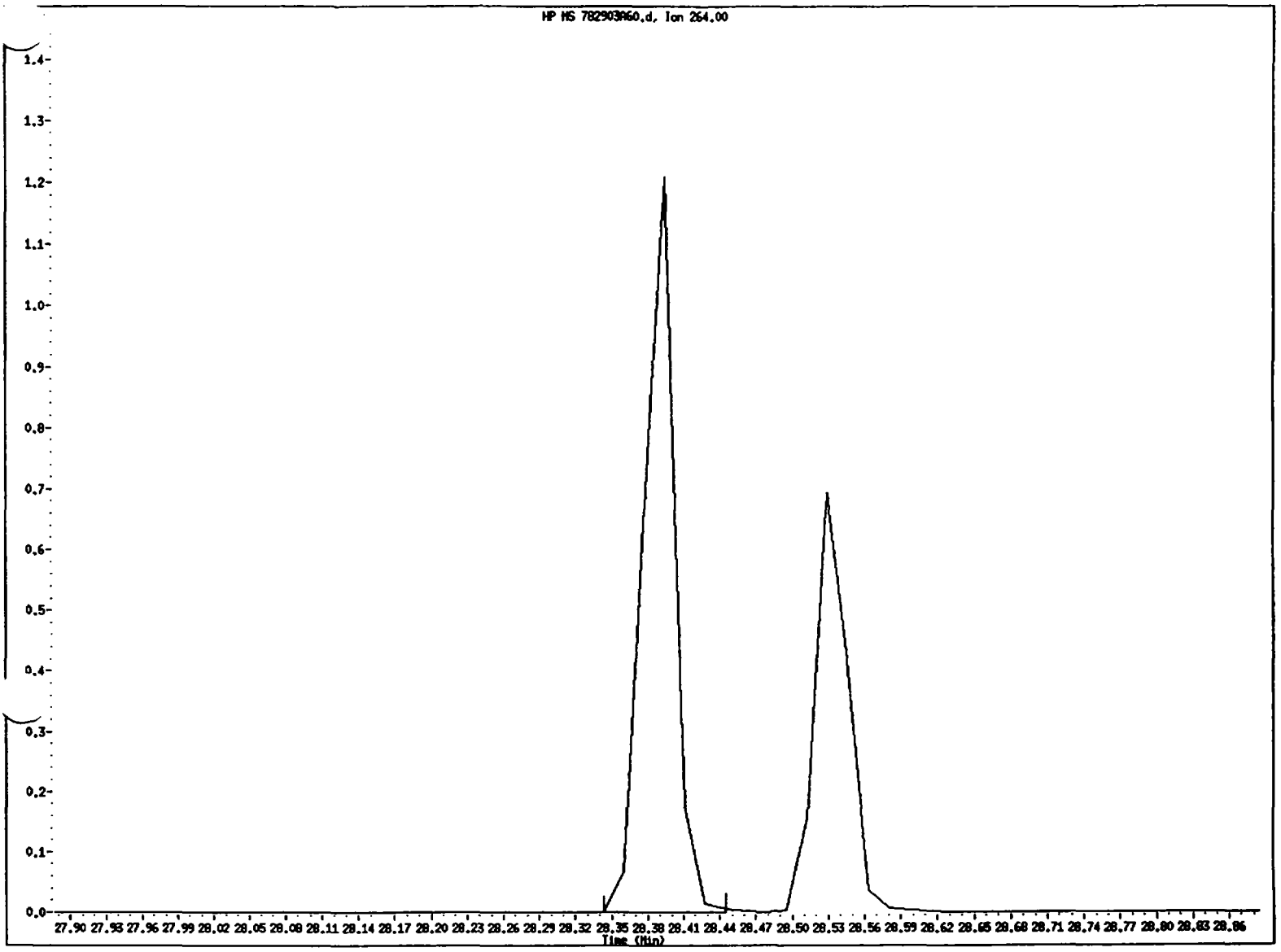
File name: /chem/5972hp60.i/DF051006A60.b/782903A60.d
Client ID: ACSGWPWB26
Instrument ID: 5972hp60.i
Injection Date and Time: 06-OCT-2005 20:00
Retention Time: 18.45
Operator ID: 917

CAS Number 1719-06-8 Area = 203982 User selected hit



/5972hp60.i/DF051006A60.b/782903A60.d
WB26
5972hp60.i
nd Time: 06-OCT-2005 20:00
20.66

Benzo(a)pyrene-d12 CAS Number 63466-71-7 Area = 214315 User selected hit



File name: /chem/5972hp60.i/DF051006A60.b/782903A60.d
Client ID: ACSGWPWB26
Instrument ID: 5972hp60.i
Injection Date and Time: 06-OCT-2005 20:00
Retention Time: 28.39
Operator ID: 917

Data File: [illegible] 5972hp60.i/DF051006A60.b/782903A60.d

Date [illegible] 2005 20:00

[illegible]

Instrument: 5972hp60.i

[illegible]

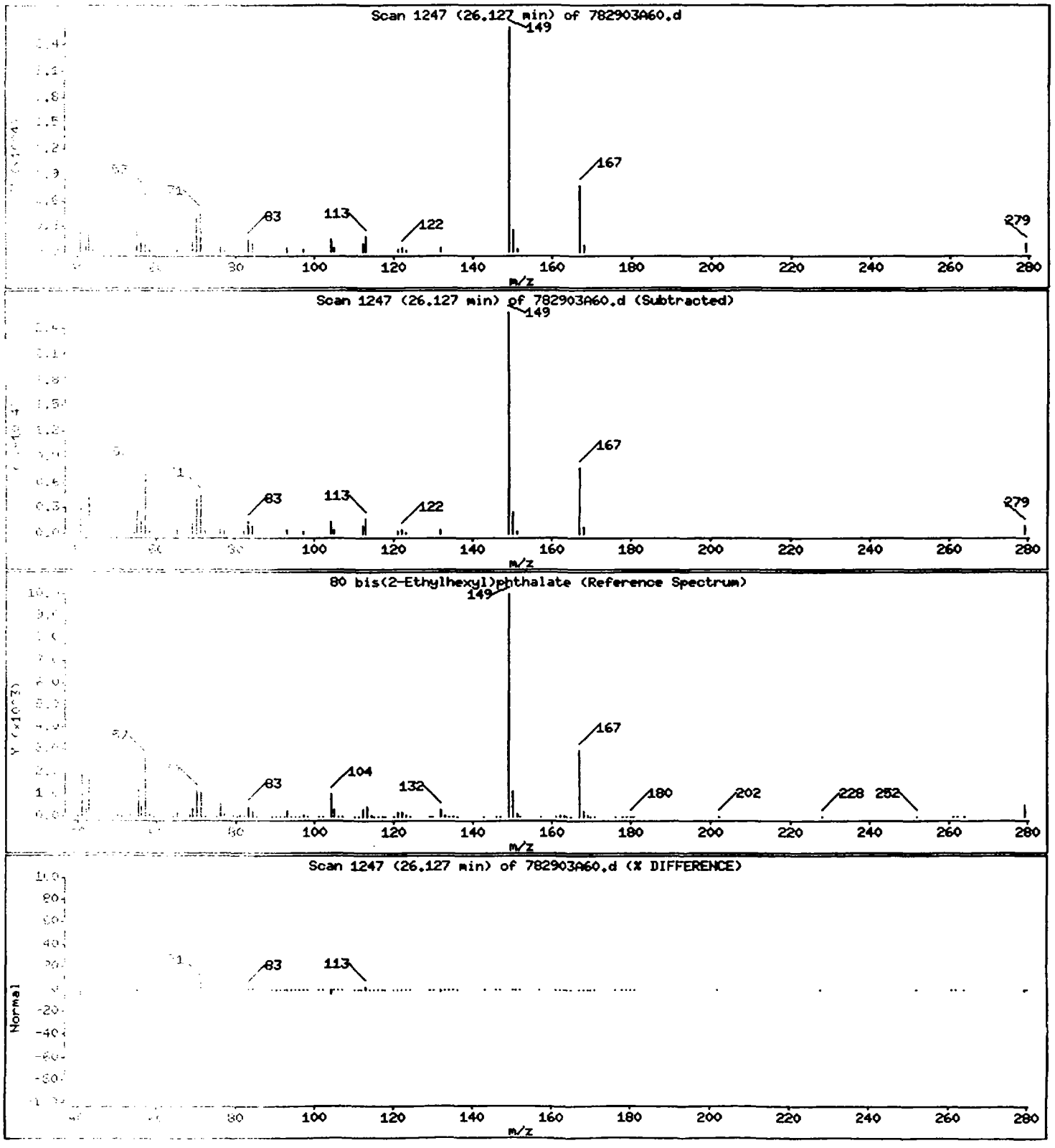
Operator: 917

[illegible]

Column diameter: 0.32

[illegible] 2-Ethylhexyl)phthalate

Concentration: 4.8 ug/L



Data [illegible]/5972hp60.i/DF051006A60.b/782903A60.d
Report [illegible] Oct-2005 14:23

CompuChem

OLC03.0 + REVISIONS QUANT AND RATIO REPORT

Data [illegible]/5972hp60.i/DF051006A60.b/782903A60.d
Lab [illegible] Client Smp ID: ACSGWPWB26
Inj [illegible] OCT-2005 20:00
Operator [illegible] Inst ID: 5972hp60.i
Smp Info [illegible]
Misc Info [illegible]
Comment [illegible]
Method [illegible]/5972hp60.i/DF051006A60.b/OLC03v5.m
Meth Date [illegible] Oct-2005 10:57 henning Quant Type: ISTD
Cal [illegible] OCT-2005 09:21 Cal File: HG051006A60.d
Als [illegible]
Dil [illegible]
Inte[illegible] Compound Sublist: OLC03.sub
Target [illegible] 50

Concentration Formula: Amt * DF * Vt/(Vo * Vi) * CpndVariable

Vt	1000.00000	Volume of final extract (uL)
Vo	[illegible].00000	Volume of sample extracted (mL)
Vi	[illegible]000	Volume injected (uL)

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
* [illegible]-d10	17.465	343245	20.000

	CONCENTRATIONS		QUANT		
RT	AREA	[illegible]	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
Ph[illegible]				CAS #: 85-44-9			
[illegible]	[illegible]	[illegible]	5.9	94	NBS129K.1	114606	3
Un[illegible]				CAS #:			
18[illegible]	[illegible]	[illegible]	5.5	0		0	3

Data File: /chem/5972hp60.i/DF051006A60.b/782903A60.d

Date : 06-OCT-2005 20:00

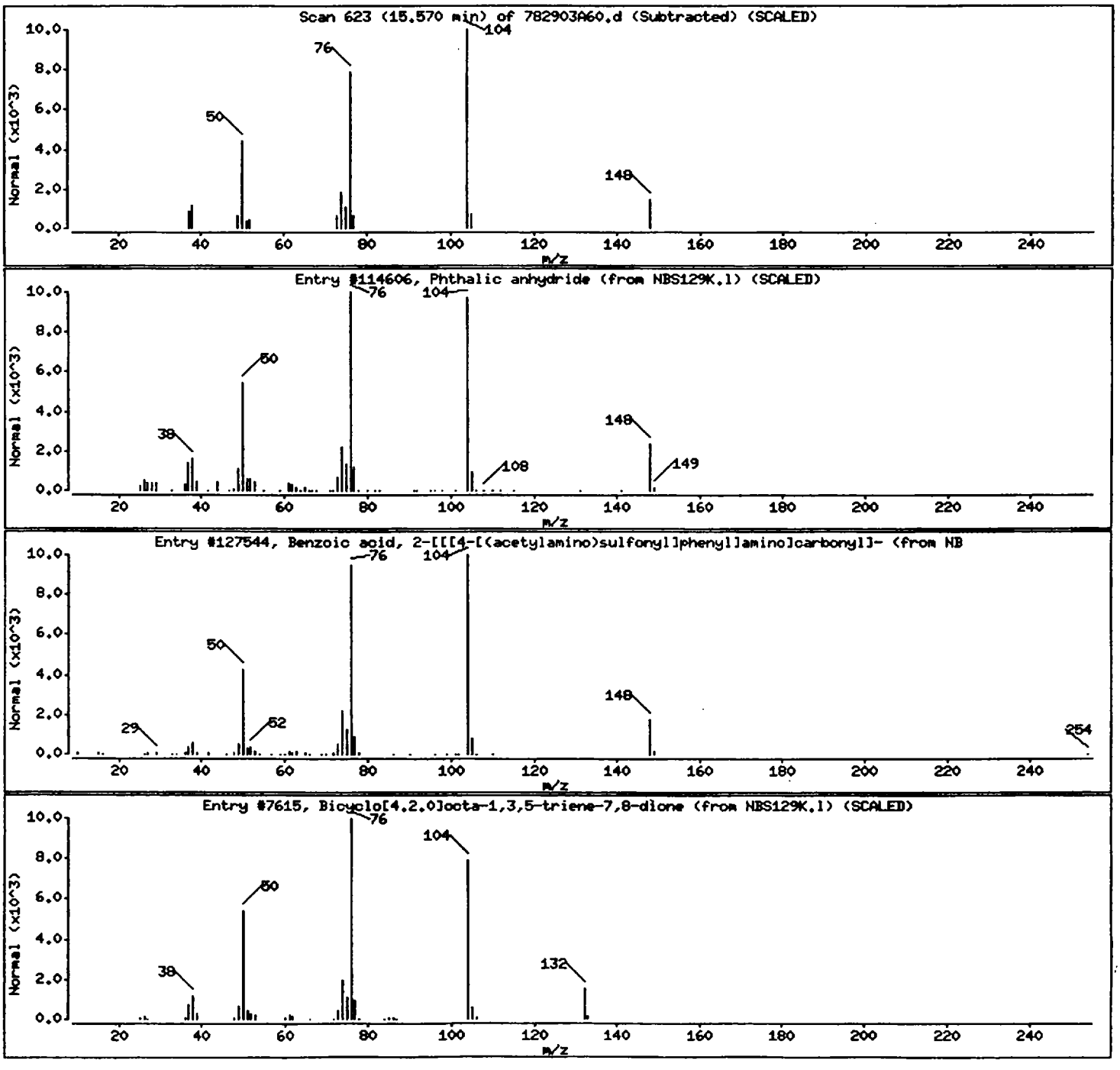
Client ID: ACSCWPWB26 Instrument: 5972hp60.i

Sample Info:

Volume Injected (uL): 1.0 Operator: 917

Column phase: RTX-5MS Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Phthalic anhydride	85-44-9	NBS129K.l	114606	94	C8H4O3	148
Benzoic acid, 2-[[[4-[(acetylamino)sulfo	131-69-1	NBS129K.l	127544	90	C16H14N2O6S	362
Bicyclo[4.2.0]octa-1,3,5-triene-7,8-dion	6383-11-5	NBS129K.l	7615	78	C8H4O2	132



Data File: /chem/5972hp60.i/DF051006A60.b/782903A60.d

Date : 06-OCT-2005 20:00

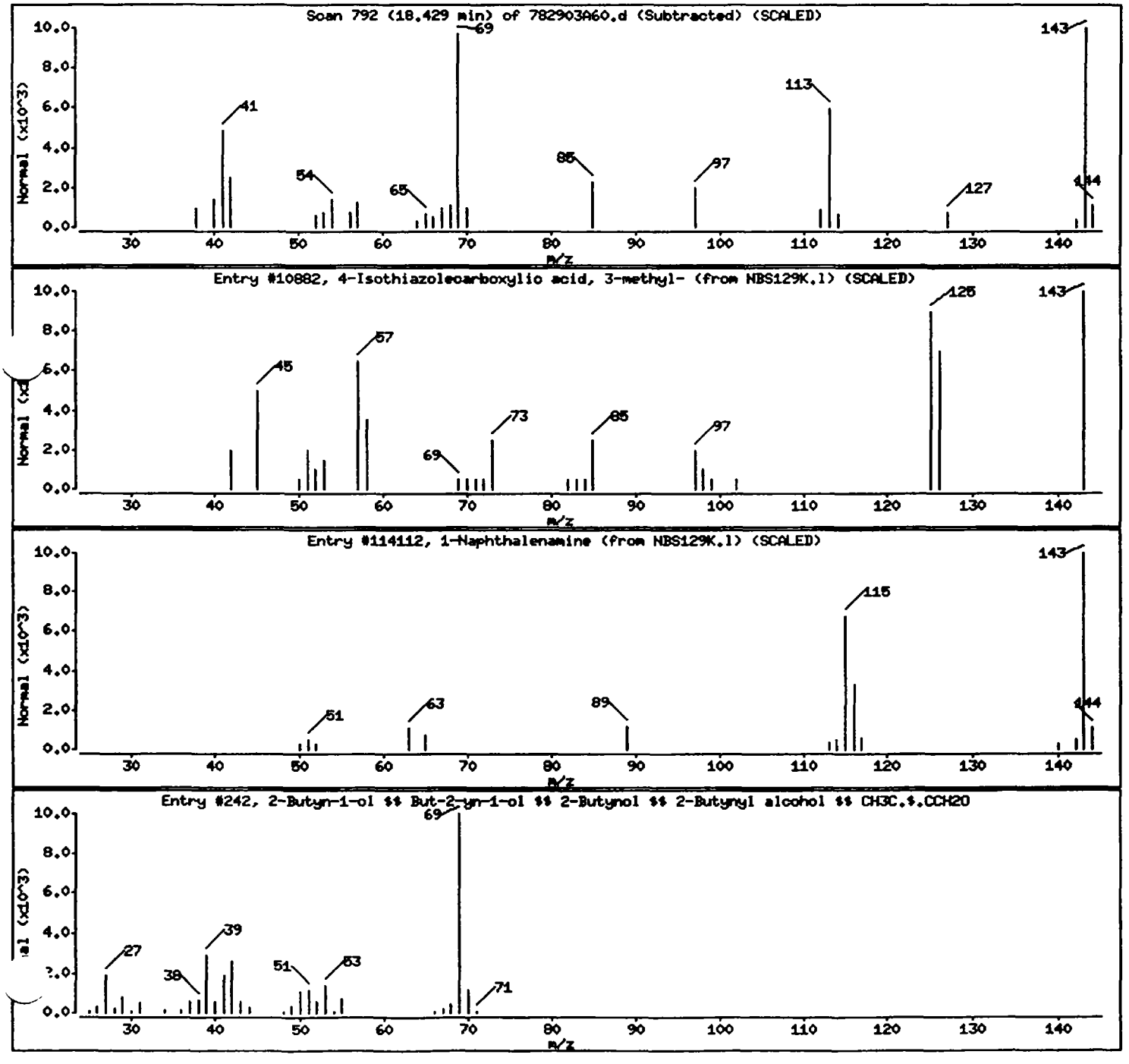
Client ID: ACSCHPWB26 Instrument: 5972hp60.i

Sample Info:

Volume Injected (uL): 1.0 Operator: 917

Column phase: RTX-5MS Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
4-Isothiazolecarboxylic acid, 3-methyl-	15903-66-9	NBS129K.l	10882	38	C5H5NO2S	143
1-Naphthalenamine	134-32-7	NBS129K.l	114112	22	C10H9N	143
2-Butyn-1-ol $$ But-2-yn-1-ol $$ 2-Butyn	764-01-2	NBS129K.l	242	22	C4H6O	70



1LCC
LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

ACSGWPWC26

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 782905 Date Received: 09/27/2005

Lab File ID: 782905A60 Date Extracted: 09/27/2005

Sample Volume: 1000(ML) Date Analyzed: 10/07/2005

Concentrated Extract Volume: 1000(UL) Dilution Factor: 1.0

Injection Volume: 1.0(UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
100-52-7	Benzaldehyde	5.0	U
108-95-2	Phenol	5.0	U
111-44-4	bis(2-Chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	5.0	U
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5.0	U
98-86-2	Acetophenone	5.0	U
106-44-5	4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	5.0	U
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	bis(2-Chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0	U
106-47-8	4-Chloroaniline	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	5.0	U
59-50-7	4-Chloro-3-methylphenol	5.0	U
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	U
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	20	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5.0	U

1LCD
LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

ACSGWPWC26

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 782905 Date Received: 09/27/2005

Lab File ID: 782905A60 Date Extracted: 09/27/2005

Sample Volume: 1000(ML) Date Analyzed: 10/07/2005

Concentrated Extract Volume: 1000(UL) Dilution Factor: 1.0

Injection Volume: 1.0(UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	5.0	U
84-66-2	Diethylphthalate	5.0	U
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-nitrosodiphenylamine (1)	5.0	U
95-94-3	1,2,4,5 Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	5.0	U
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
84-74-2	Di-n-butylphthalate	5.0	U
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	5.0	U
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo(a)anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	bis(2-Ethylhexyl)phthalate	5.8	B
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo(b)fluoranthene	5.0	U
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U
53-70-3	Dibenzo(a,h)anthracene	5.0	U
191-24-2	Benzo(g,h,i)perylene	5.0	U

(1) - Cannot be separated from Diphenylamine

1LCG

ENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS

DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ACSGWPWC26

HEM — Contract: OLC03-REVS

Case No.: — Client No.: — SDG No.: 7829

82905 — Date Received: 09/27/2005

82905A60 — Date Extracted: 09/27/2005

1000(ML) — Date Analyzed: 10/07/2005

Extract Volume: 1000(UL) — Dilution Factor: 1.0

1.0(UL)

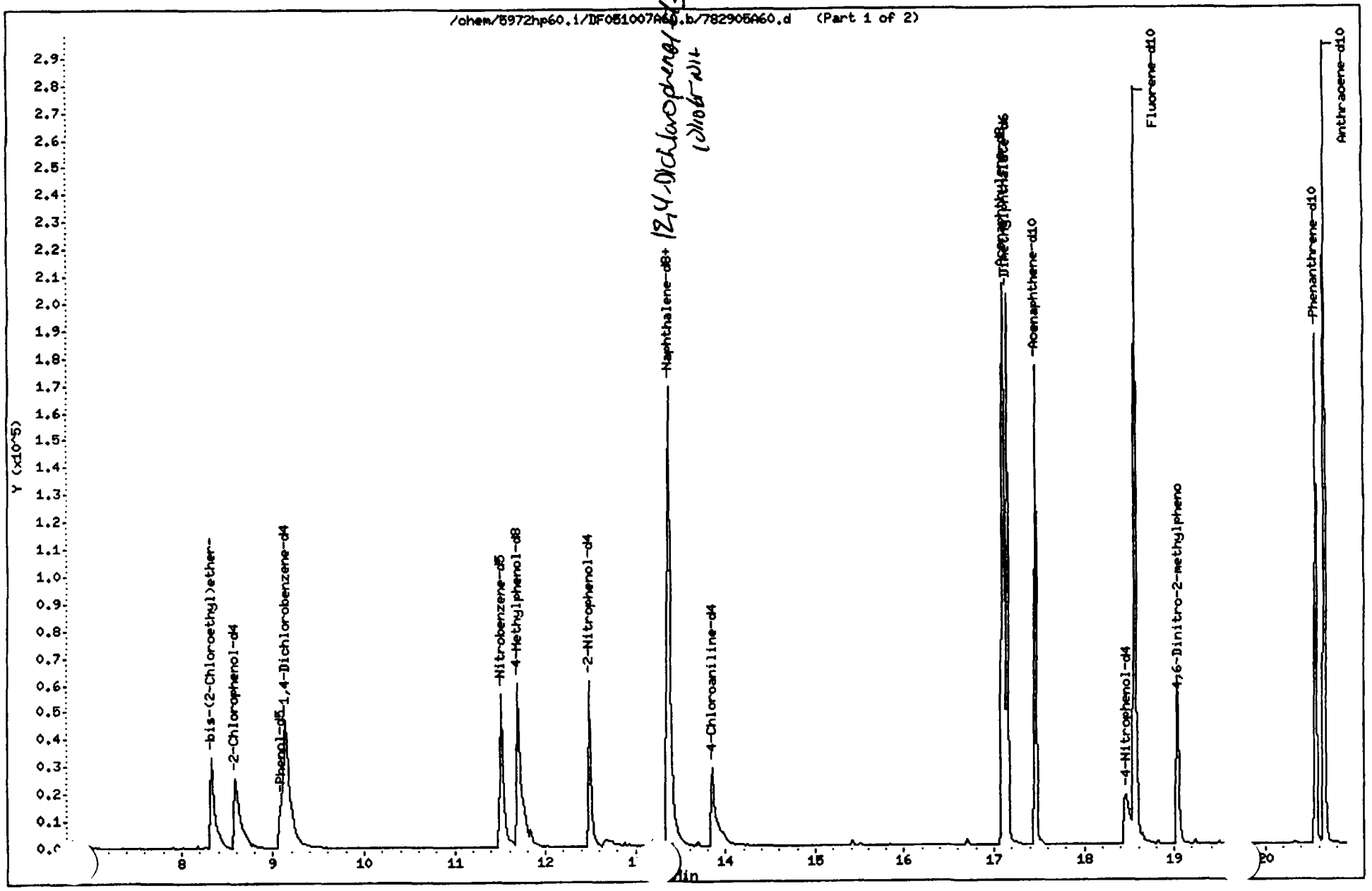
d: 0

	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q

FORM I LCSV-TIC — OLC03.2

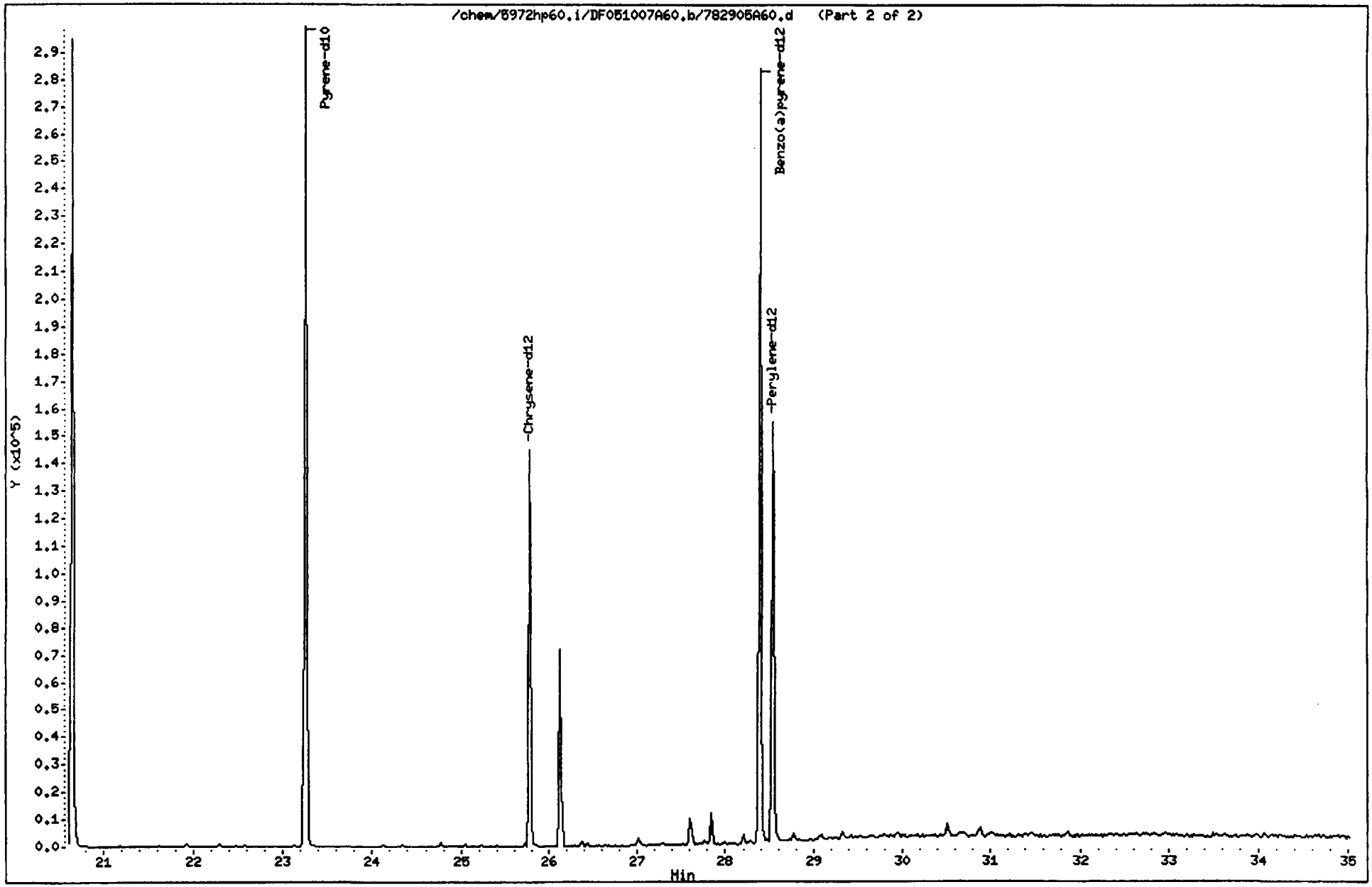
Data File: /chem/5972hp60.i/DF051007A60.b/782905A60.d
Date : 07-OCT-2005 11:43
Client ID: ACSGWPWC26
Sample Info:
Volume Injected (uL): 1.0
Column phase: RTX-5MS

Instrument: 5972hp60.i
Operator: 917
Column diameter: 0.32



Data File: /chem/5972hp60.i/DF051007A60.b/782905A60.d
Date : 07-OCT-2005 11:43
Client ID: ACSGWPWC26
Sample Info:
Volume Injected (uL): 1.0
Column phase: RTX-5MS

Instrument: 5972hp60.i
Operator: 917
Column diameter: 0.32



Data File: /chem/5972hp60.i/DF051007A60.b/782905A60.d
Report Date: 10-Oct-2005 09:31

CompuChem

OLC03.0 + REVISIONS QUANT AND RATIO REPORT

Data file : /chem/5972hp60.i/DF051007A60.b/782905A60.d
Lab Smp Id: 782905 Client Smp ID: ACSGWPWC26
Inj Date : 07-OCT-2005 11:43
Operator : 917 Inst ID: 5972hp60.i
Smp Info :
Misc Info :
Comment :
Method : /chem/5972hp60.i/DF051007A60.b/OLC03v5.m
Meth Date : 10-Oct-2005 08:59 henning Quant Type: ISTD
Cal Date : 07-OCT-2005 08:40 Cal File: HG051007A60.d
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: OLC03.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/(Vo * Vi) * CpndVariable

Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)	SIMILARITY
* 1	1,4-Dichlorobenzene-d4	152	9.143	9.142	(1.000)	25733	20.0000		
* 2	Naphthalene-d8	136	13.373	13.371	(1.000)	108179	20.0000		8816
* 3	Acenaphthene-d10	164	17.467	17.465	(1.000)	67227	20.0000		7991
* 4	Phenanthrene-d10	188	20.563	20.578	(1.000)	112908	20.0000		8716(H)
* 5	Chrysene-d12	240	25.773	25.789	(1.000)	100275	20.0000		8146
* 6	Perylene-d12	264	28.531	28.547	(1.000)	112182	20.0000		8116(H)
$ 7	Phenol-d5	99	9.093	9.074	(0.994)	59760	25.1233	25	7260
$ 8	bis-(2-Chloroethyl)ether-d8	67	8.331	8.330	(0.911)	38499	26.6175	27	9192
$ 9	2-Chlorophenol-d4	132	8.585	8.584	(0.939)	46987	26.4926	26	8960
$ 10	4-Methylphenol-d8	113	11.698	11.697	(1.279)	53422	27.0039	27	9468
$ 11	Nitrobenzene-d5	128	11.512	11.510	(0.861)	25691	26.1501	26	8057
$ 12	2-Nitrophenol-d4	143	12.493	12.492	(0.934)	30883	26.0101	26	9094
$ 13	2,4-Dichlorophenol-d3	165	13.373	13.371	(1.000)	51656	25.8904	26	7668
$ 14	4-Chloroaniline-d4	131	13.863	13.845	(1.037)	48792	18.1353	18	9119
$ 15	Dimethylphthalate-d6	166	17.145	17.144	(0.982)	150772	30.3353	30	9550
$ 16	Acenaphthylene-d8	160	17.112	17.110	(0.980)	195595	28.1662	28	8807
$ 17	4-Nitrophenol-d4	143	18.465	18.396	(1.057)	24684	34.1229	34	6330(M)
$ 18	Fluorene-d10	176	18.566	18.565	(1.063)	123863	29.9254	30	9526
$ 19	4,6-Dinitro-2-methylphenol-d2	200	19.040	19.039	(0.921)	25746	26.2868	26	7637

10/10/05 NH

Data File: /chem/5972hp60.i/DF051007A60.b/782905A60.d
Report Date: 10-Oct-2005 09:31

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)	SIMILARITY
$ 20 Anthracene-d10	188	20.664	20.663	(1.000)	178932	30.9774	31	9494
$ 21 Pyrene-d10	212	23.253	23.251	(0.902)	200856	32.2947	32	8887
$ 22 Benzo(a)pyrene-d12	264	28.396	28.394	(1.000)	182254	29.6259	30	8352(H)
23 Benzaldehyde	77	Compound Not Detected.						
24 Phenol	94	Compound Not Detected.						
25 bis(2-Chloroethyl)ether	93	Compound Not Detected.						
26 2-Chlorophenol	128	Compound Not Detected.						
27 2-Methylphenol	108	Compound Not Detected.						
28 2,2'-oxybis(1-Chloropropane)	45	Compound Not Detected.						
30 Acetophenone	105	Compound Not Detected.						
31 4-Methylphenol	108	Compound Not Detected.						
32 N-Nitroso-di-n-propylamine	70	Compound Not Detected.						
33 Hexachloroethane	117	Compound Not Detected.						
34 Nitrobenzene	77	Compound Not Detected.						
35 Isophorone	82	Compound Not Detected.						
36 2-Nitrophenol	139	Compound Not Detected.						
37 2,4-Dimethylphenol	107	Compound Not Detected.						
38 bis(2-Chloroethoxy)methane	93	Compound Not Detected.						
39 2,4-Dichlorophenol	162	Compound Not Detected.						
40 Naphthalene	128	Compound Not Detected.						
41 4-Chloroaniline	127	Compound Not Detected.						
42 Hexachlorobutadiene	225	Compound Not Detected.						
43 Caprolactam	113	Compound Not Detected.						
44 4-Chloro-3-methylphenol	107	Compound Not Detected.						
45 2-Methylnaphthalene	142	Compound Not Detected.						
46 1,2,4,5 Tetrachlorobenzene	216	Compound Not Detected.						
47 Hexachlorocyclopentadiene	237	Compound Not Detected.						
49 2,4,6-Trichlorophenol	196	Compound Not Detected.						
50 2,4,5-Trichlorophenol	196	Compound Not Detected.						
51 1,1'-Biphenyl	154	Compound Not Detected.						
52 2-Chloronaphthalene	162	Compound Not Detected.						
53 2-Nitroaniline	65	Compound Not Detected.						
54 Dimethylphthalate	163	Compound Not Detected.						
55 2,6-Dinitrotoluene	165	Compound Not Detected.						
56 Acenaphthylene	152	Compound Not Detected.						
57 3-Nitroaniline	138	Compound Not Detected.						
58 Acenaphthene	153	Compound Not Detected.						
59 2,4-Dinitrophenol	184	Compound Not Detected.						
60 4-Nitrophenol	109	Compound Not Detected.						
61 Dibenzofuran	168	Compound Not Detected.						
62 2,4-Dinitrotoluene	165	Compound Not Detected.						
63 Diethylphthalate	149	Compound Not Detected.						
64 Fluorene	166	Compound Not Detected.						
65 4-Chlorophenyl-phenylether	204	Compound Not Detected.						
66 4-Nitroaniline	138	Compound Not Detected.						
67 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.						
68 N-nitrosodiphenylamine	169	Compound Not Detected.						

10/10/05 DH

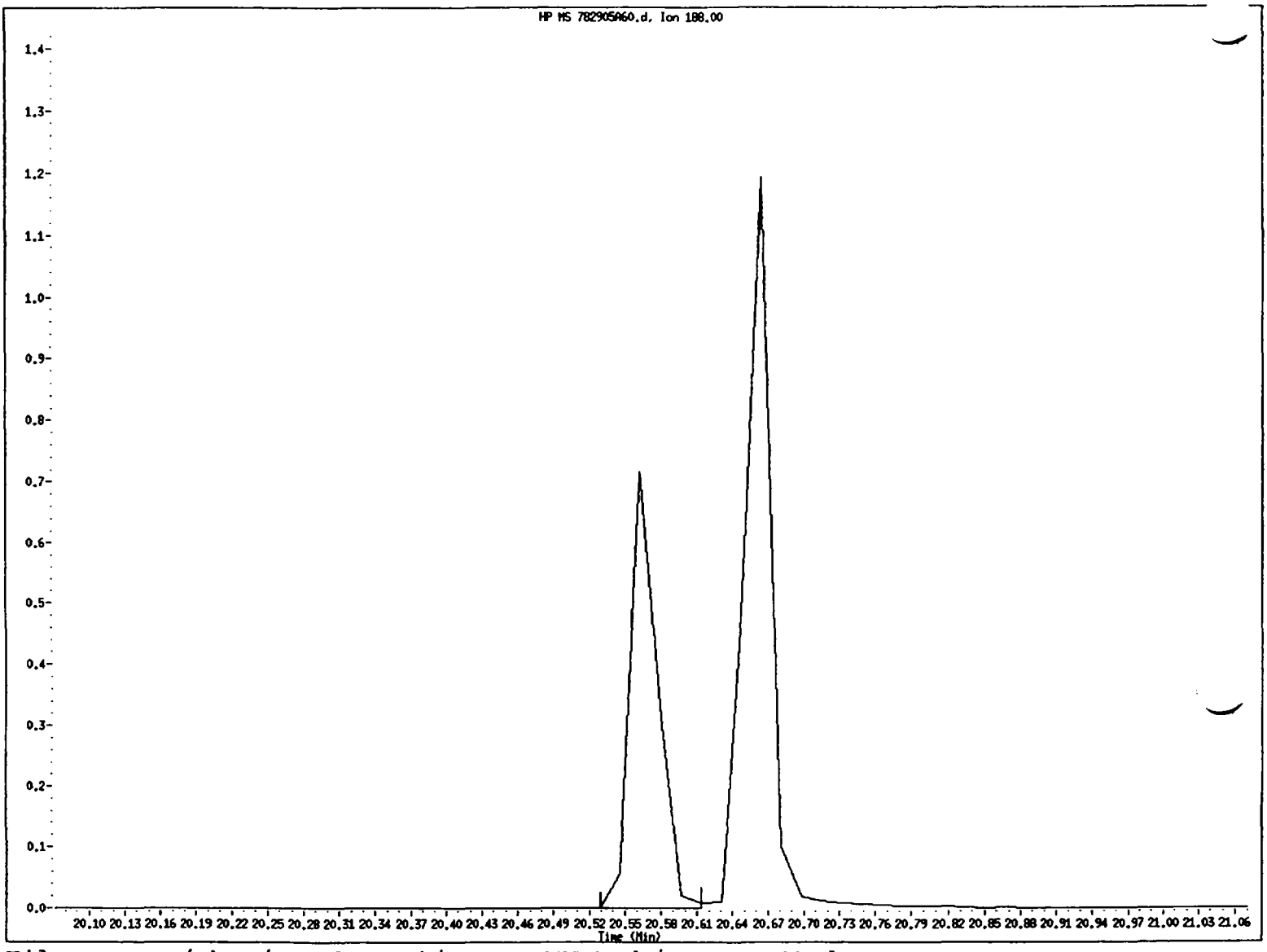
Data File: /chem/5972hp60.i/DF051007A60.b/782905A60.d
Report Date: 10-Oct-2005 09:31

	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)	SIMILARITY
	248	Compound Not Detected.						
	284	Compound Not Detected.						
	200	Compound Not Detected.						
	266	Compound Not Detected.						
	178	Compound Not Detected.						
	178	Compound Not Detected.						
	149	Compound Not Detected.						
	202	Compound Not Detected.						
	202	Compound Not Detected.						
	149	Compound Not Detected.						
	252	Compound Not Detected.						
ate	149	26.129	26.144	(1.014)	34127	5.82991	5.8	9136
	228	Compound Not Detected.						
	228	Compound Not Detected.						
	149	Compound Not Detected.						
	252	Compound Not Detected.						
	252	Compound Not Detected.						
	252	Compound Not Detected.						
	276	Compound Not Detected.						
	278	Compound Not Detected.						
	276	Compound Not Detected.						

(#) = qualifier out of range

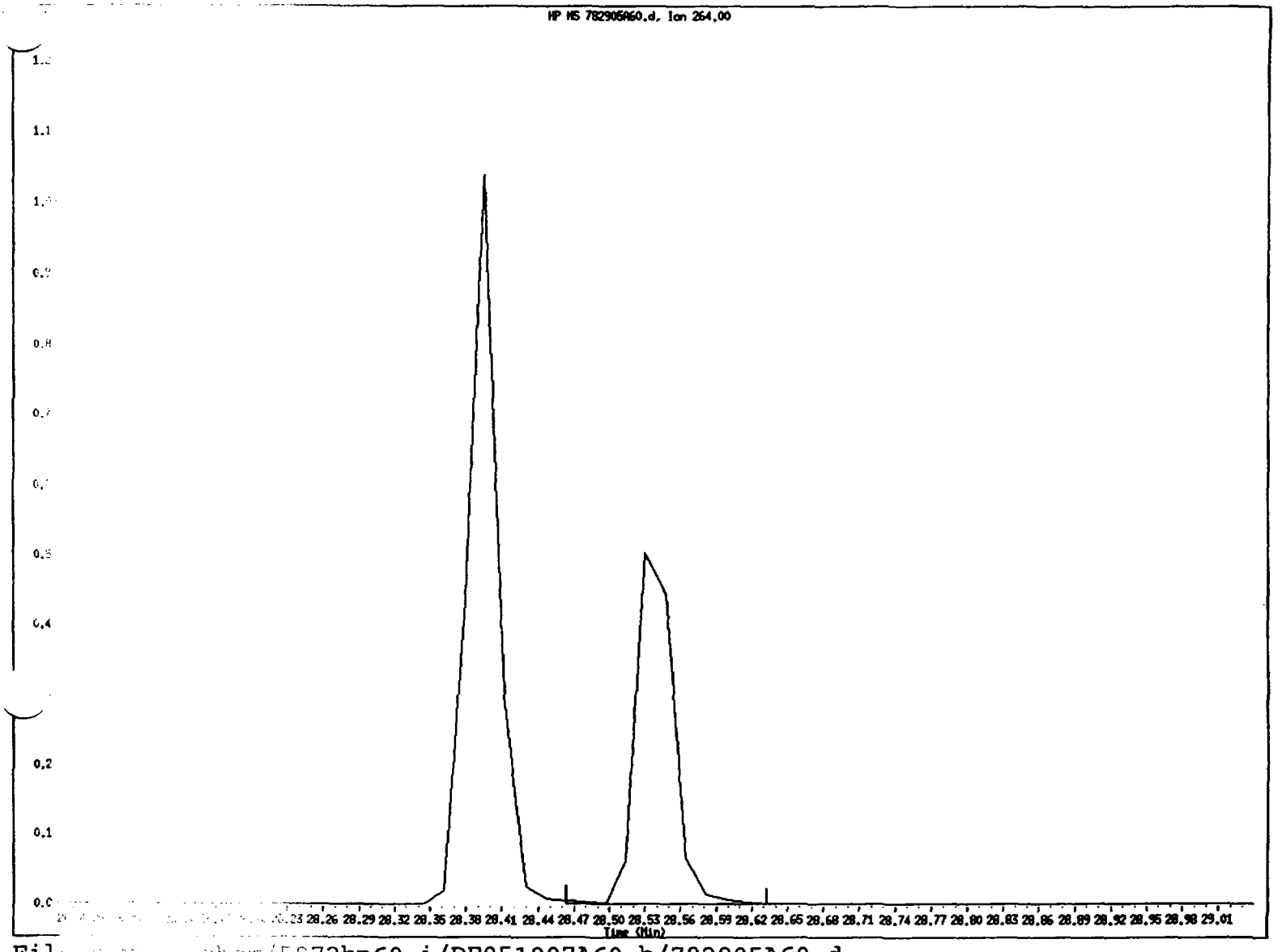
M = response manually integrated.
H = operator selected an alternate compound hit.

Phenanthrene-d10 CAS Number 1517-22-2 Area = 112908 User selected hit



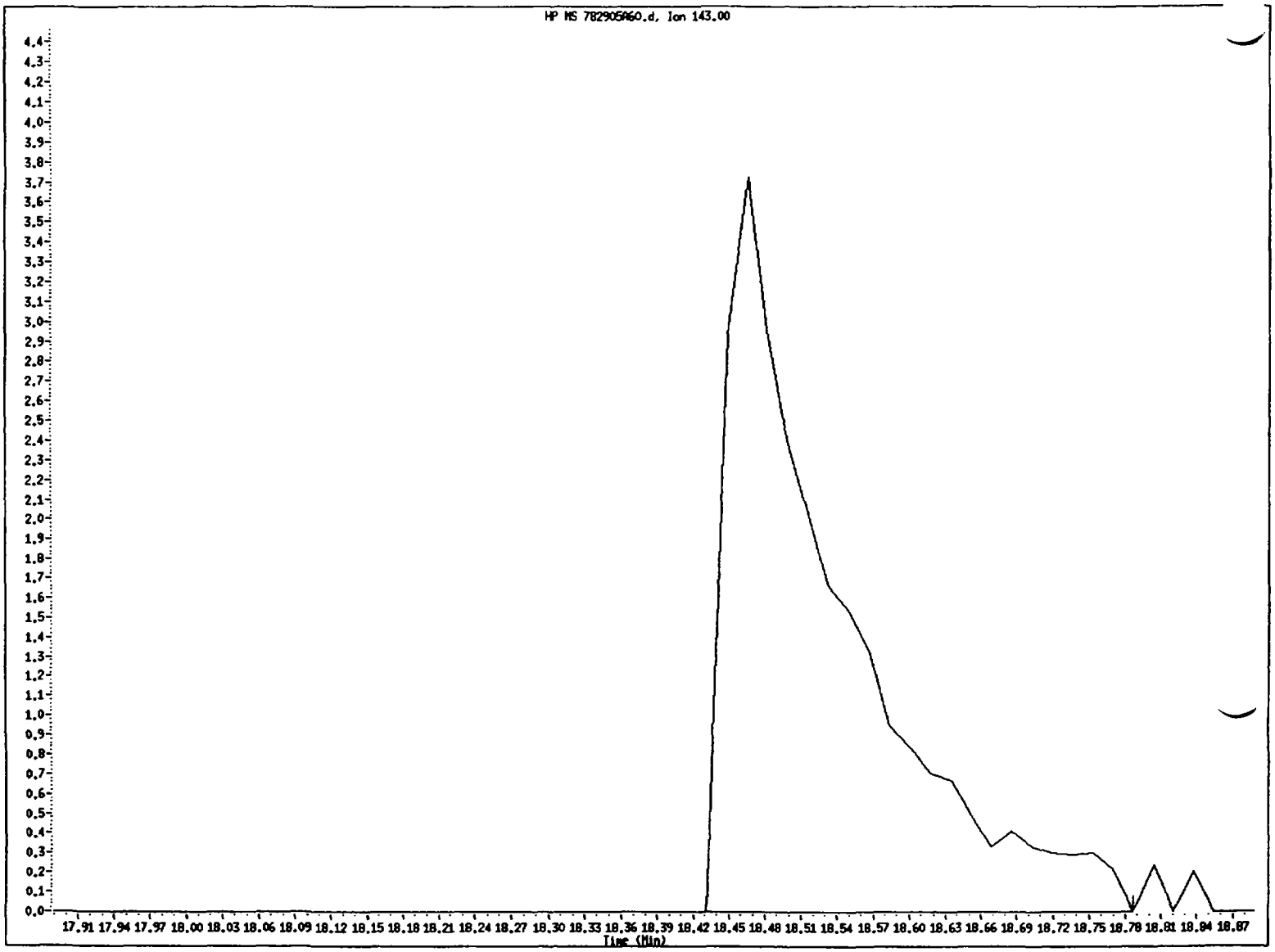
File name: /chem/5972hp60.i/DF051007A60.b/782905A60.d
Client ID: ACSGWPWC26
Instrument ID: 5972hp60.i
Injection Date and Time: 07-OCT-2005 11:43
Retention Time: 20.56
Operator ID: 917

Perylene-d12 CAS Number 1520-96-3 Area = 112182 User selected hit



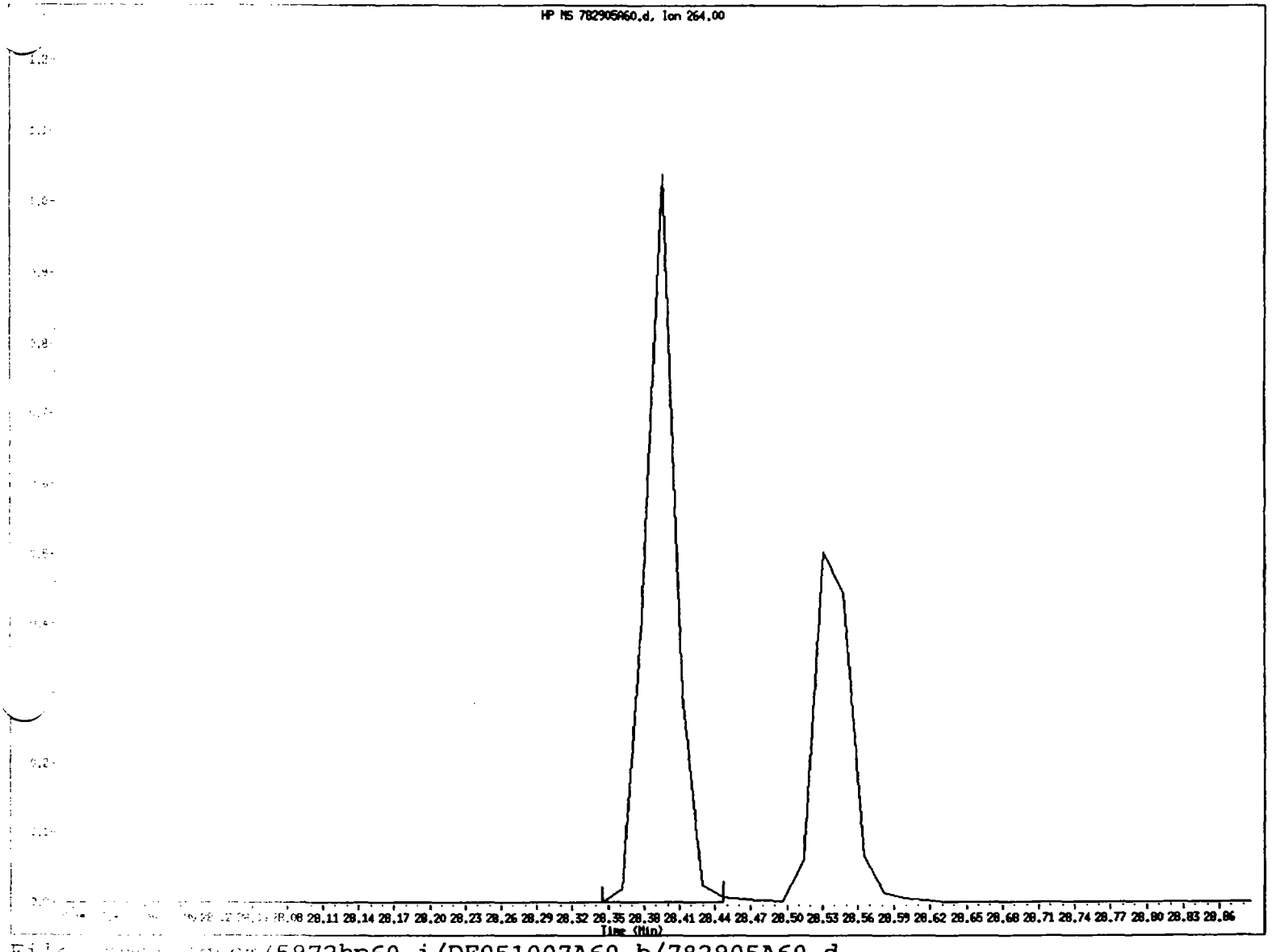
File: ...chem/5972hp60.i/DF051007A60.b/782905A60.d
Client ID: ATSDWPWC26
Instrument ID: 5972hp60.i
Injection Date and Time: 07-OCT-2005 11:43
Retention Time: 28.53
Operator ID: 917

4-Nitrophenol-d4 CAS Number 93951-79-2 Area = 24684 Manually integrated



File name: /chem/5972hp60.i/DF051007A60.b/782905A60.d
Client ID: ACSGWPWC26
Instrument ID: 5972hp60.i
Injection Date and Time: 07-OCT-2005 11:43
Retention Time: 18.46
Operator ID: 917

Benzo(a)pyrene-d12 CAS Number 63466-71-7 Area = 182254 User selected hit



File Name: Chem/5972hp60.i/DF051007A60.b/782905A60.d
Client ID: A2SGWPWC26
Instrument ID: 5972hp60.i
Injection Date and Time: 07-OCT-2005 11:43
Retention Time: 28.40
Operator ID: 317

Data [illegible] 5972hp60.i/DF051007A60.b/782905A60.d

Date [illegible] 11:47

Client [illegible]

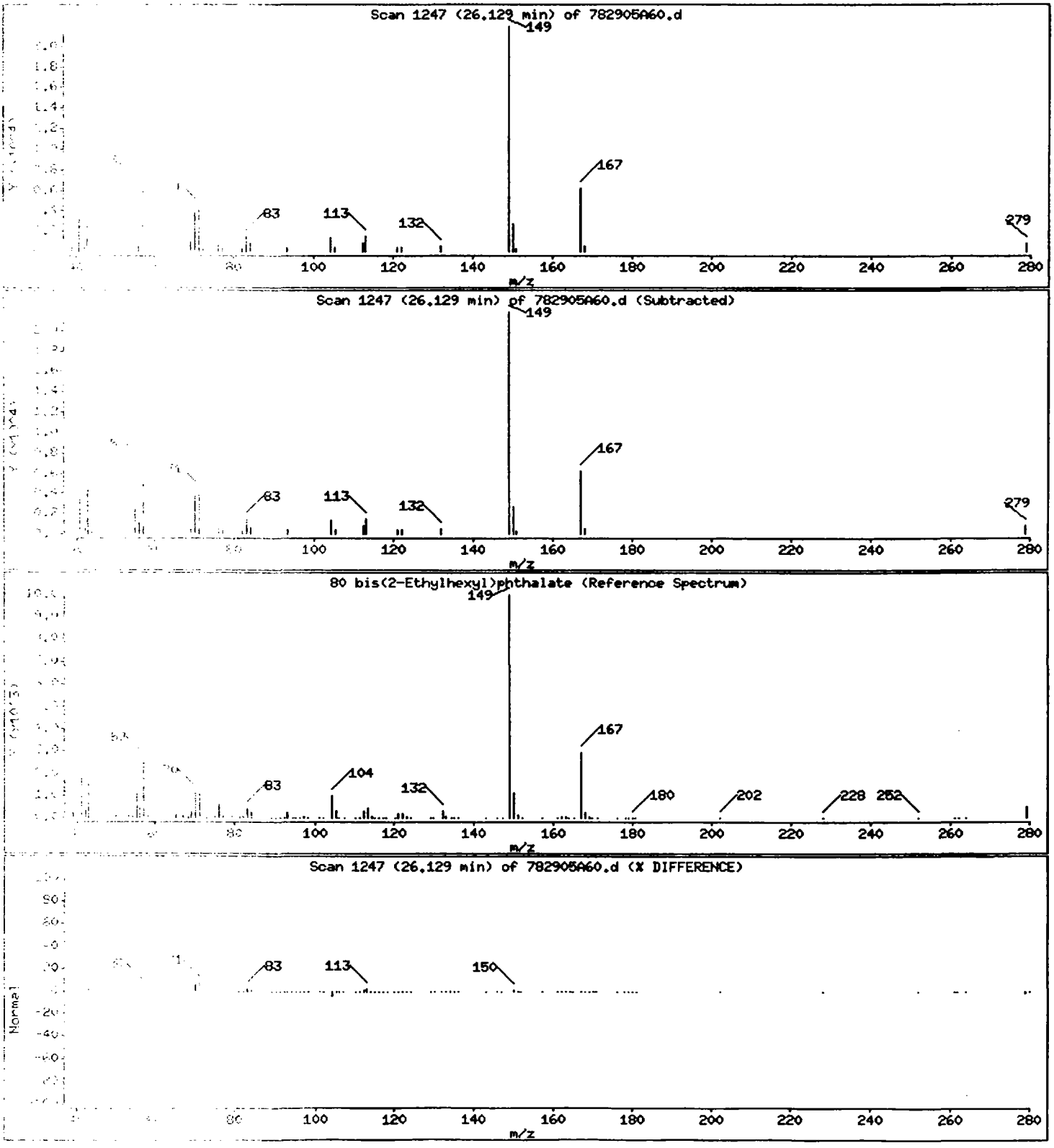
Instrument: 5972hp60.i

Operator: 917

Column diameter: 0.32

Concentration: 5.8 ug/L

80 bis(2-Ethylhexyl)phthalate



Data File: /chem/5972hp60.i/DF051007A60.b/782905A60.d
Report Date: 10-Oct-2005 09:31

CompuChem

OLC03.0 + REVISIONS QUANT AND RATIO REPORT

Data file : /chem/5972hp60.i/DF051007A60.b/782905A60.d
Lab Smp Id: 782905 Client Smp ID: ACSGWPWC26
Inj Date : 07-OCT-2005 11:43
Operator : 917 Inst ID: 5972hp60.i
Smp Info :
Misc Info :
Comment :
Method : /chem/5972hp60.i/DF051007A60.b/OLC03v5.m
Meth Date : 10-Oct-2005 08:59 henning Quant Type: ISTD
Cal Date : 07-OCT-2005 08:40 Cal File: HG051007A60.d
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: OLC03.sub
Target Version: 3.50

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

1LCC
LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

ACSGWPWD26

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 782907 Date Received: 09/27/2005

Lab File ID: 782907A60 Date Extracted: 09/27/2005

Sample Volume: 1000(ML) Date Analyzed: 10/07/2005

Concentrated Extract Volume: 1000(UL) Dilution Factor: 1.0

Injection Volume: 1.0(UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
100-52-7	Benzaldehyde	5.0	U
108-95-2	Phenol	5.0	U
111-44-4	bis(2-Chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	5.0	U
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5.0	U
98-86-2	Acetophenone	5.0	U
106-44-5	4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	5.0	U
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	bis(2-Chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0	U
106-47-8	4-Chloroaniline	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	5.0	U
59-50-7	4-Chloro-3-methylphenol	5.0	U
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	U
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	20	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5.0	U

1LCD
LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

ACSGWPWD26

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 782907 Date Received: 09/27/2005

Lab File ID: 782907A60 Date Extracted: 09/27/2005

Sample Volume: 1000(ML) Date Analyzed: 10/07/2005

Concentrated Extract Volume: 1000(UL) Dilution Factor: 1.0

Injection Volume: 1.0(UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	5.0	U
84-66-2	Diethylphthalate	5.0	U
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-nitrosodiphenylamine (1)	5.0	U
95-94-3	1,2,4,5 Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	5.0	U
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
84-74-2	Di-n-butylphthalate	5.0	U
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	5.0	U
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo(a)anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	bis(2-Ethylhexyl)phthalate	12	B
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo(b)fluoranthene	5.0	U
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U
53-70-3	Dibenzo(a,h)anthracene	5.0	U
191-24-2	Benzo(g,h,i)perylene	5.0	U

(1) - Cannot be separated from Diphenylamine

1LCG
LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ACSGWPWD26

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 782907 Date Received: 09/27/2005

Lab File ID: 782907A60 Date Extracted: 09/27/2005

Sample Volume: 1000(ML) Date Analyzed: 10/07/2005

Concentrated Extract Volume: 1000(UL) Dilution Factor: 1.0

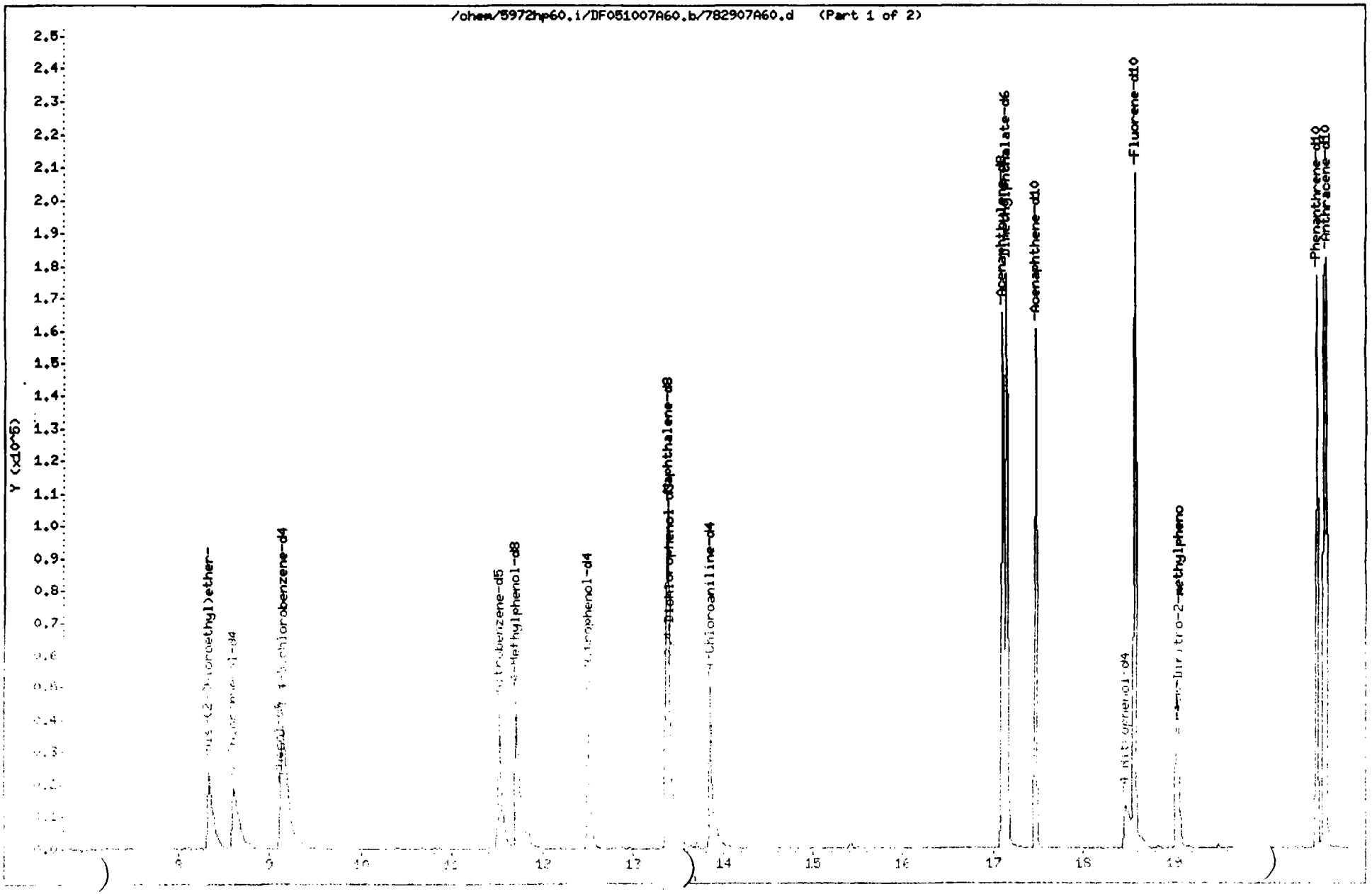
Injection Volume: 1.0(UL)

Number TICs found: 0

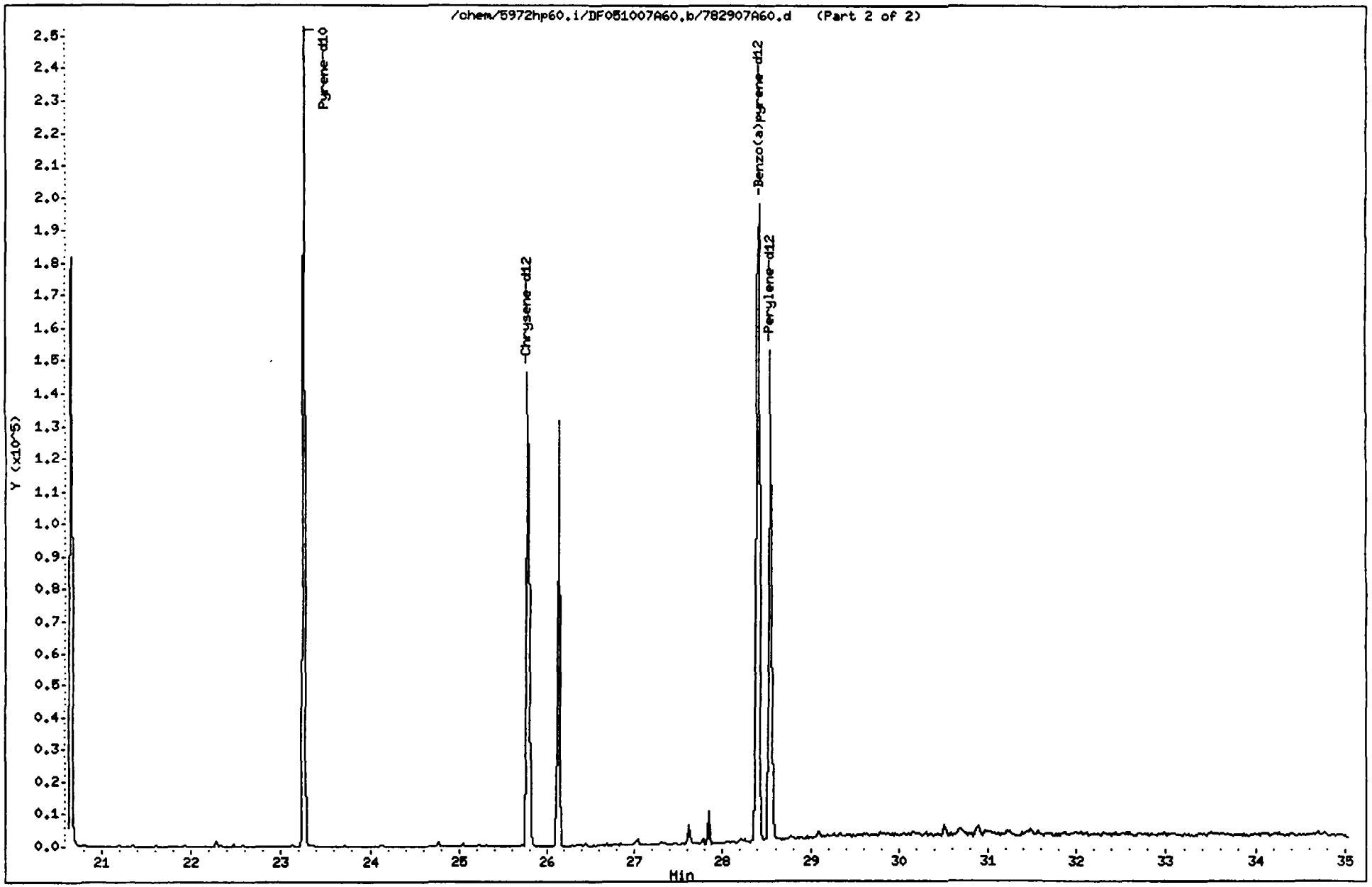
	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

FORM I LCSV-TIC OLC03.2

Data File: /chem/5972hp60.i/DF051007A60.b/782907A60.d
Date : 07-OCT-2005 12:29
Client ID: ACSGWPWD26
Instrument: 5972hp60.i
Sample Info:
Volume Injected (uL): 1.0
Operator: 917
Column phase: RTX-5MS
Column diameter: 0.32



Data File: /chem/5972hp60.i/DF051007A60.b/782907A60.d
Date : 07-OCT-2005 12:29
Client ID: ACSCWPWD26
Instrument: 5972hp60.i
Sample Info:
Volume Injected (uL): 1.0
Operator: 917
Column phase: RTX-5MS
Column diameter: 0.32



Data File: /chem/5972hp60.i/DF051007A60.b/782907A60.d
Report Date: 10-Oct-2005 09:31

CompuChem

OLC03.0 + REVISIONS QUANT AND RATIO REPORT

Data file : /chem/5972hp60.i/DF051007A60.b/782907A60.d
Lab Smp Id: 782907 Client Smp ID: ACSGWPWD26
Inj Date : 07-OCT-2005 12:29
Operator : 917 Inst ID: 5972hp60.i
Smp Info :
Misc Info :
Comment :
Method : /chem/5972hp60.i/DF051007A60.b/OLC03v5.m
Meth Date : 10-Oct-2005 08:59 henning Quant Type: ISTD
Cal Date : 07-OCT-2005 08:40 Cal File: HG051007A60.d
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: OLC03.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/(Vo * Vi) * CpndVariable

Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)	SIMILARITY
* 1	1,4-Dichlorobenzene-d4	152	9.148	9.142	(1.000)	22287	20.0000		
* 2	Naphthalene-d8	136	13.377	13.371	(1.000)	91771	20.0000		8736
* 3	Acenaphthene-d10	164	17.471	17.465	(1.000)	58492	20.0000		7918
* 4	Phenanthrene-d10	188	20.567	20.578	(1.000)	99620	20.0000		8838
* 5	Chrysene-d12	240	25.778	25.789	(1.000)	86569	20.0000		8249
* 6	Perylene-d12	264	28.535	28.547	(1.000)	93777	20.0000		8240(H)
$ 7	Phenol-d5	99	9.114	9.074	(0.996)	48082	23.3392	23	7373
$ 8	bis-(2-Chloroethyl)ether-d8	67	8.336	8.330	(0.911)	30884	24.6541	25	9168
$ 9	2-Chlorophenol-d4	132	8.606	8.584	(0.941)	37181	24.2051	24	8867
$ 10	4-Methylphenol-d8	113	11.702	11.697	(1.279)	44288	25.8482	26	9459
$ 11	Nitrobenzene-d5	128	11.516	11.510	(0.861)	20378	24.4507	24	8279
$ 12	2-Nitrophenol-d4	143	12.498	12.492	(0.934)	23991	23.8182	24	9109
$ 13	2,4-Dichlorophenol-d3	165	13.394	13.371	(1.001)	41668	24.6183	25	7414
$ 14	4-Chloroaniline-d4	131	13.851	13.845	(1.035)	46946	20.5689	21	9081
$ 15	Dimethylphthalate-d6	166	17.150	17.144	(0.982)	125917	29.1179	29	9424
$ 16	Acenaphthylene-d8	160	17.099	17.110	(0.979)	157157	26.0107	26	9477
$ 17	4-Nitrophenol-d4	143	18.469	18.396	(1.057)	19386	30.8011	31	6402(M)
$ 18	Fluorene-d10	176	18.571	18.565	(1.063)	104880	29.1231	29	9524
$ 19	4,6-Dinitro-2-methylphenol-d2	200	19.045	19.039	(0.926)	20872	24.1530	24	7600

10/10/05 DH

Data File: /chem/5972hp60.i/DF051007A60.b/782907A60.d
Report Date: 10-Oct-2005 09:31

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)	SIMILARITY
$ 20 Anthracene-d10	188	20.669	20.663	(1.005)	147821	29.0049	29	9261(H)
$ 21 Pyrene-d10	212	23.257	23.251	(0.902)	169480	31.5643	32	9238
$ 22 Benzo(a)pyrene-d12	264	28.400	28.394	(1.000)	154635	30.0697	30	8339(H)
23 Benzaldehyde	77	Compound Not Detected.						
24 Phenol	94	Compound Not Detected.						
25 bis(2-Chloroethyl)ether	93	Compound Not Detected.						
26 2-Chlorophenol	128	Compound Not Detected.						
27 2-Methylphenol	108	Compound Not Detected.						
28 2,2'-oxybis(1-Chloropropane)	45	Compound Not Detected.						
30 Acetophenone	105	Compound Not Detected.						
31 4-Methylphenol	108	Compound Not Detected.						
32 N-Nitroso-di-n-propylamine	70	Compound Not Detected.						
33 Hexachloroethane	117	Compound Not Detected.						
34 Nitrobenzene	77	Compound Not Detected.						
35 Isophorone	82	Compound Not Detected.						
36 2-Nitrophenol	139	Compound Not Detected.						
37 2,4-Dimethylphenol	107	Compound Not Detected.						
38 bis(2-Chloroethoxy)methane	93	Compound Not Detected.						
39 2,4-Dichlorophenol	162	Compound Not Detected.						
40 Naphthalene	128	Compound Not Detected.						
41 4-Chloroaniline	127	Compound Not Detected.						
42 Hexachlorobutadiene	225	Compound Not Detected.						
43 Caprolactam	113	Compound Not Detected.						
44 4-Chloro-3-methylphenol	107	Compound Not Detected.						
45 2-Methylnaphthalene	142	Compound Not Detected.						
46 1,2,4,5 Tetrachlorobenzene	216	Compound Not Detected.						
47 Hexachlorocyclopentadiene	237	Compound Not Detected.						
49 2,4,6-Trichlorophenol	196	Compound Not Detected.						
50 2,4,5-Trichlorophenol	196	Compound Not Detected.						
51 1,1'-Biphenyl	154	Compound Not Detected.						
52 2-Chloronaphthalene	162	Compound Not Detected.						
53 2-Nitroaniline	65	Compound Not Detected.						
54 Dimethylphthalate	163	Compound Not Detected.						
55 2,6-Dinitrotoluene	165	Compound Not Detected.						
56 Acenaphthylene	152	Compound Not Detected.						
57 3-Nitroaniline	138	Compound Not Detected.						
58 Acenaphthene	153	Compound Not Detected.						
59 2,4-Dinitrophenol	184	Compound Not Detected.						
60 4-Nitrophenol	109	Compound Not Detected.						
61 Dibenzofuran	168	Compound Not Detected.						
62 2,4-Dinitrotoluene	165	Compound Not Detected.						
63 Diethylphthalate	149	Compound Not Detected.						
64 Fluorene	166	Compound Not Detected.						
65 4-Chlorophenyl-phenylether	204	Compound Not Detected.						
66 4-Nitroaniline	138	Compound Not Detected.						
67 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.						
68 N-nitrosodiphenylamine	169	Compound Not Detected.						

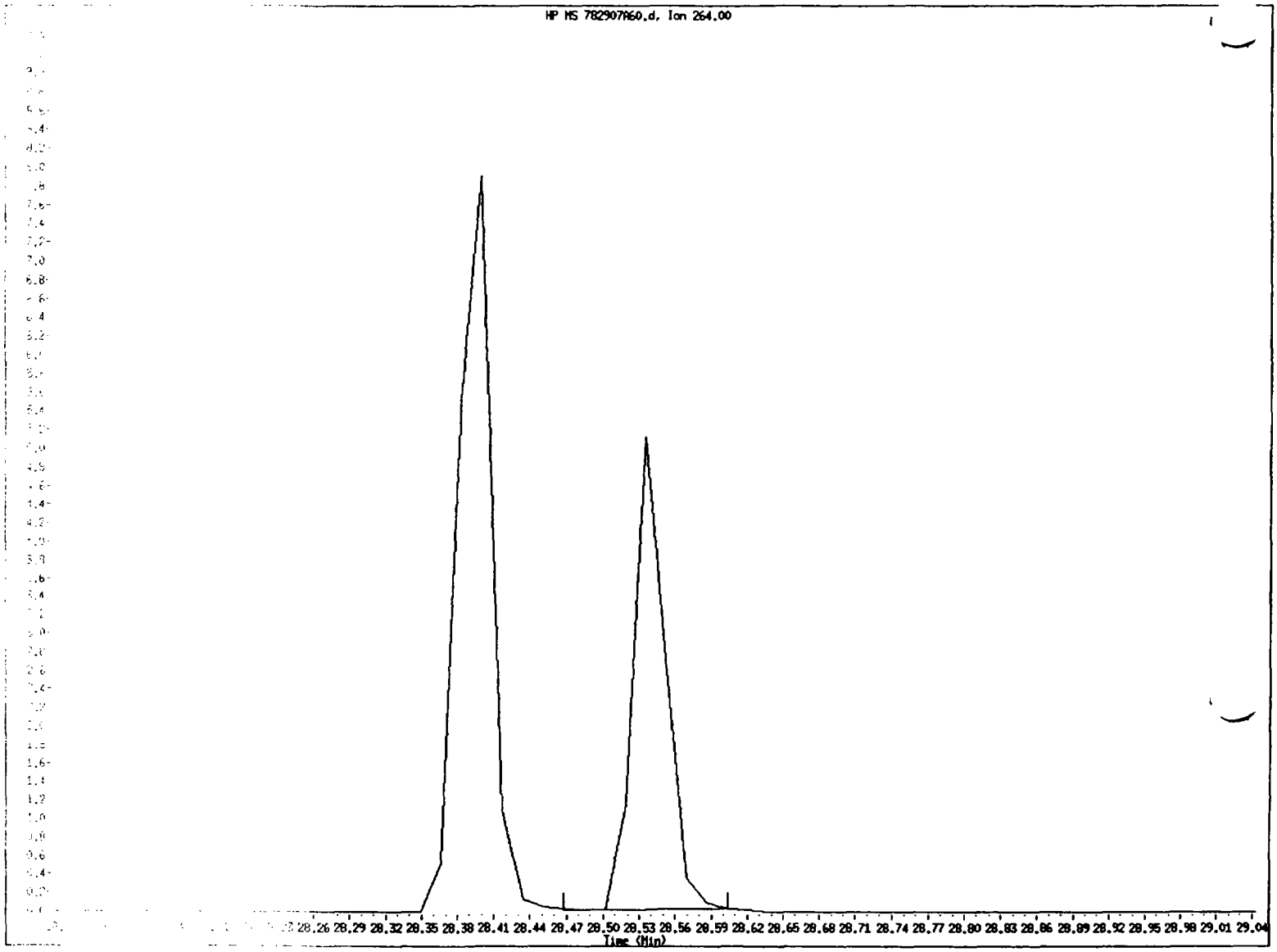
Data File: /chem/5972hp60.i/DF051007A60.b/782907A60.d
Report Date: 10-Oct-2005 09:31

Compound	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)	SIMILARITY
69 4-Bromophenyl phenylether	248	Compound Not Detected.						
70 Hexachlorobenzene	284	Compound Not Detected.						
71 Atrazine	200	Compound Not Detected.						
72 Pentachlorophenol	266	Compound Not Detected.						
73 Phenanthrene	178	Compound Not Detected.						
74 Anthracene	178	Compound Not Detected.						
75 Di-n-butylphthalate	149	Compound Not Detected.						
76 Fluoranthene	202	Compound Not Detected.						
77 Pyrene	202	Compound Not Detected.						
78 Butylbenzylphthalate	149	Compound Not Detected.						
79 3,3'-Dichlorobenzidine	252	Compound Not Detected.						
80 Benzo(a)anthracene	149	26.133	26.144	(1.014)	60338	11.9395	12	9234
81 Chrysene	228	Compound Not Detected.						
82 bis(2-Ethylhexyl)phthalate	228	Compound Not Detected.						
83 Di-n-octylphthalate	149	Compound Not Detected.						
84 Benzo(b)fluoranthene	252	Compound Not Detected.						
85 Benzo(k)fluoranthene	252	Compound Not Detected.						
86 Benzo(a)pyrene	252	Compound Not Detected.						
87 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.						
88 Dibenz(a,h)anthracene	278	Compound Not Detected.						
89 Benzo(g,h,i)perylene	276	Compound Not Detected.						

Flag Legend

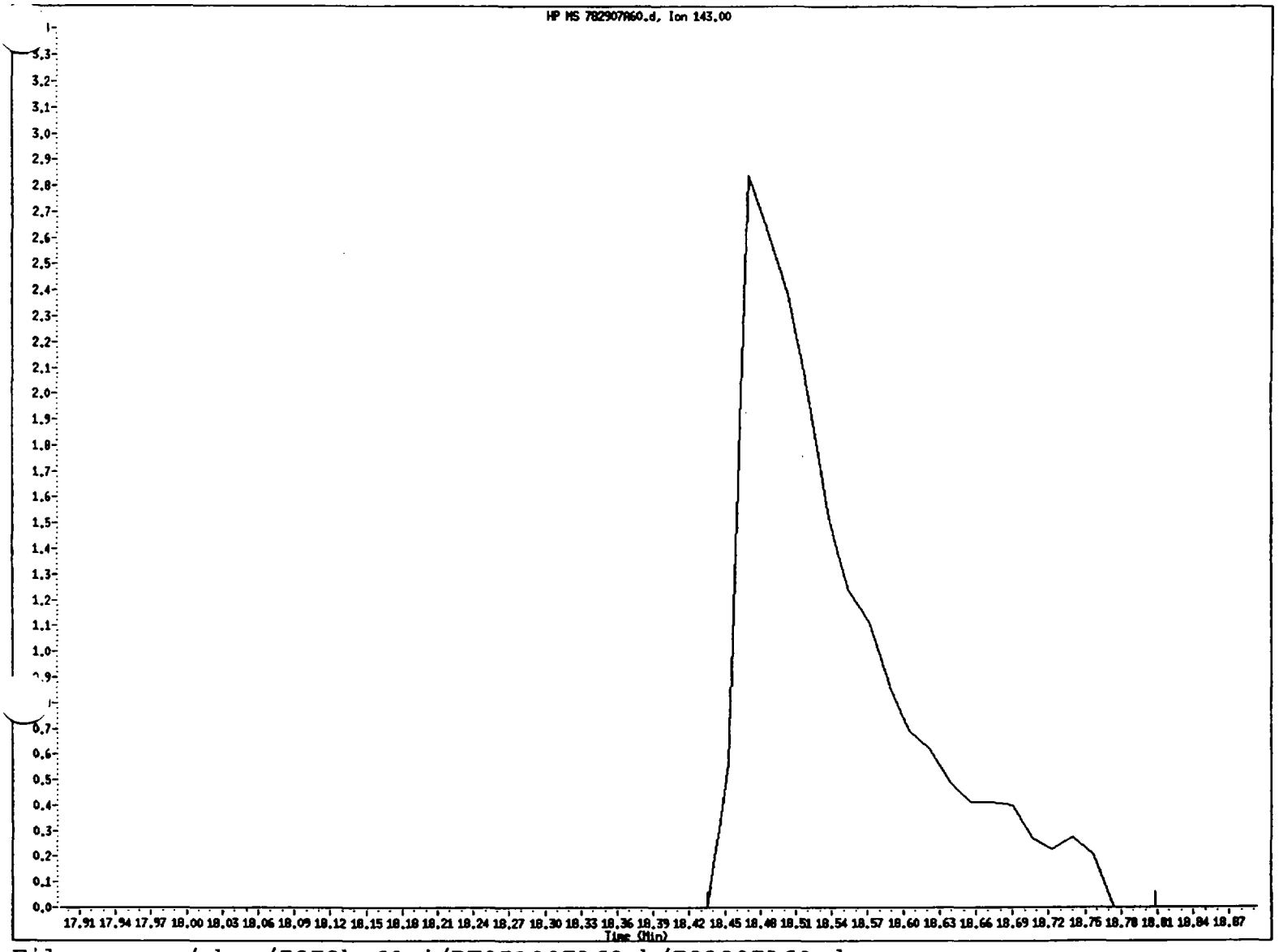
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Peak [illegible] CAS Number 1520-96-3 Area = 93777 User selected hit



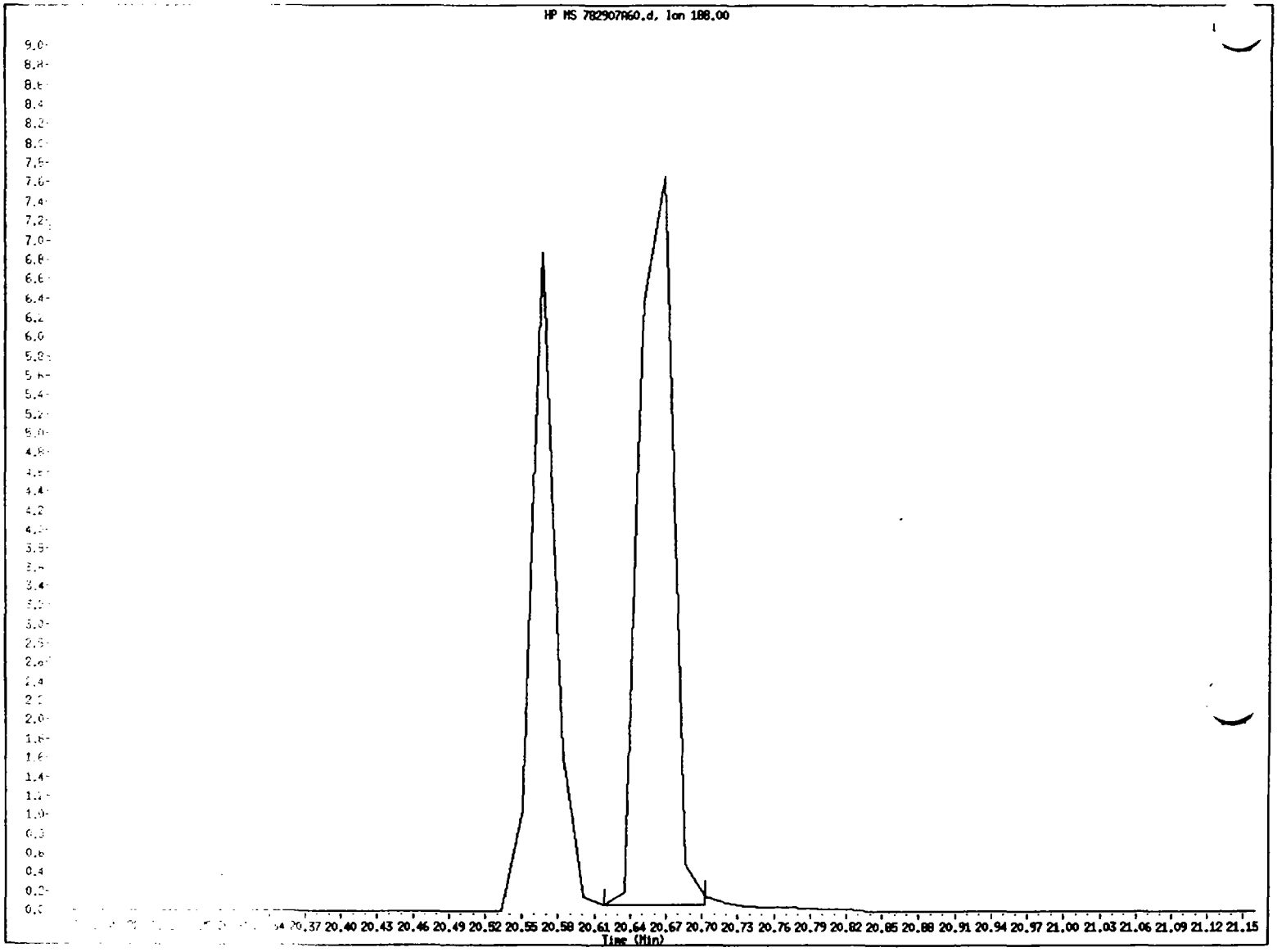
File [illegible]/972hp60.i/DF051007A60.b/782907A60.d
Cl[illegible]WD26
Inst[illegible]/972hp60.i
Inj[illegible] and Time: 07-OCT-2005 12:29
Retention Time: 28.54
Operator [illegible]7

4-Nitrophenol-d4 CAS Number 93951-79-2 Area = 19386 Manually integrated



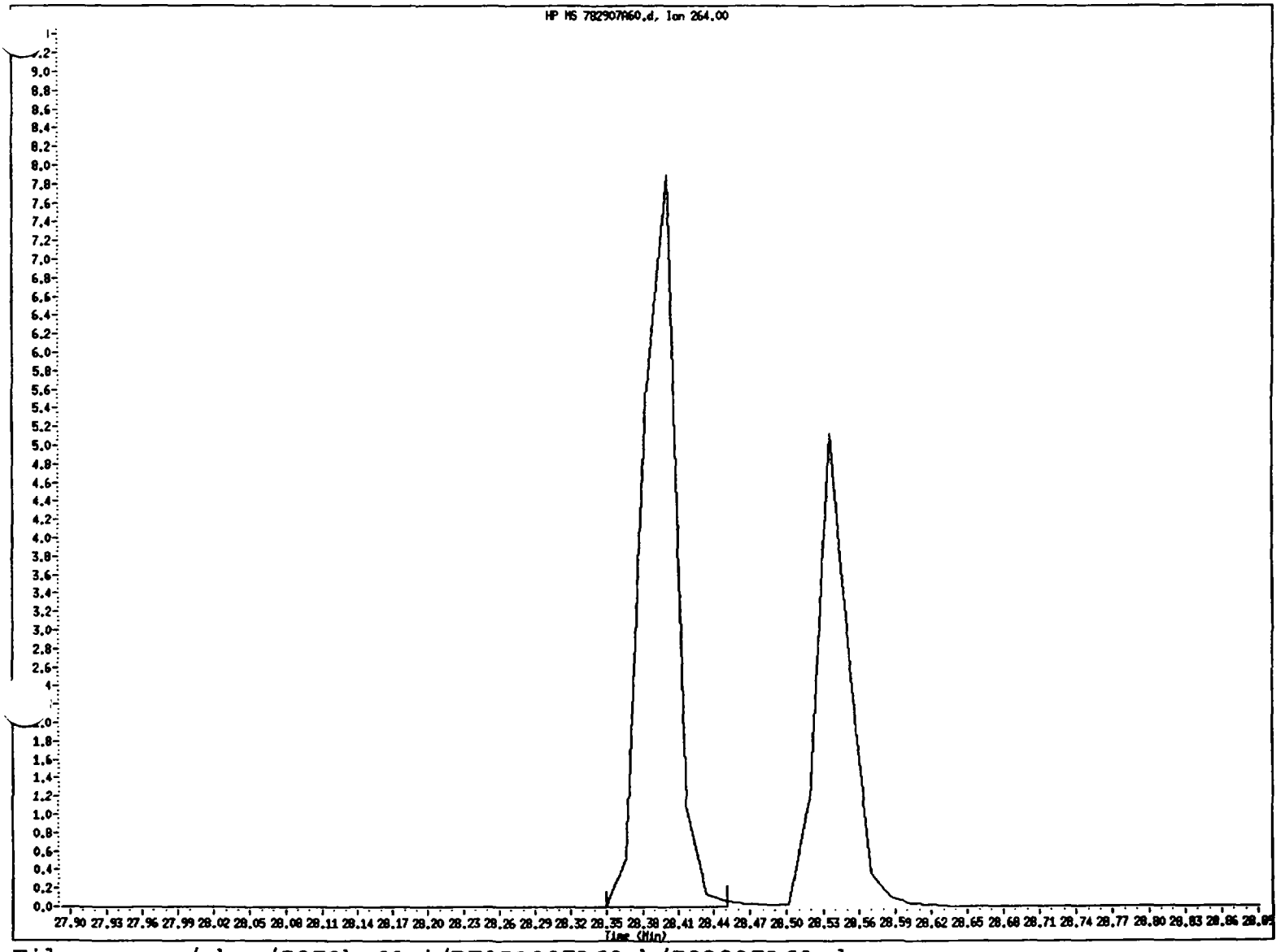
File name: /chem/5972hp60.i/DF051007A60.b/782907A60.d
Client ID: ACSGWPWD26
Instrument ID: 5972hp60.i
Injection Date and Time: 07-OCT-2005 12:29
Retention Time: 18.47
Operator ID: 917

Anthracene-d10 CAS Number 1719-06-8 Area = 147821 User selected hit



File [illegible]972hp60.i/DF051007A60.b/782907A60.d
Client [illegible]WPWD26
Instrument ID: 5972hp60.i
Injection Date and Time: 07-OCT-2005 12:29
Retention Time: 20.67
Operator ID: [illegible]

Benzo(a)pyrene-d12 CAS Number 63466-71-7 Area = 154635 User selected hit



File name: /chem/5972hp60.i/DF051007A60.b/782907A60.d
Client ID: ACSGWPWD26
Instrument ID: 5972hp60.i
Injection Date and Time: 07-OCT-2005 12:29
Retention Time: 28.40
Operator ID: 917

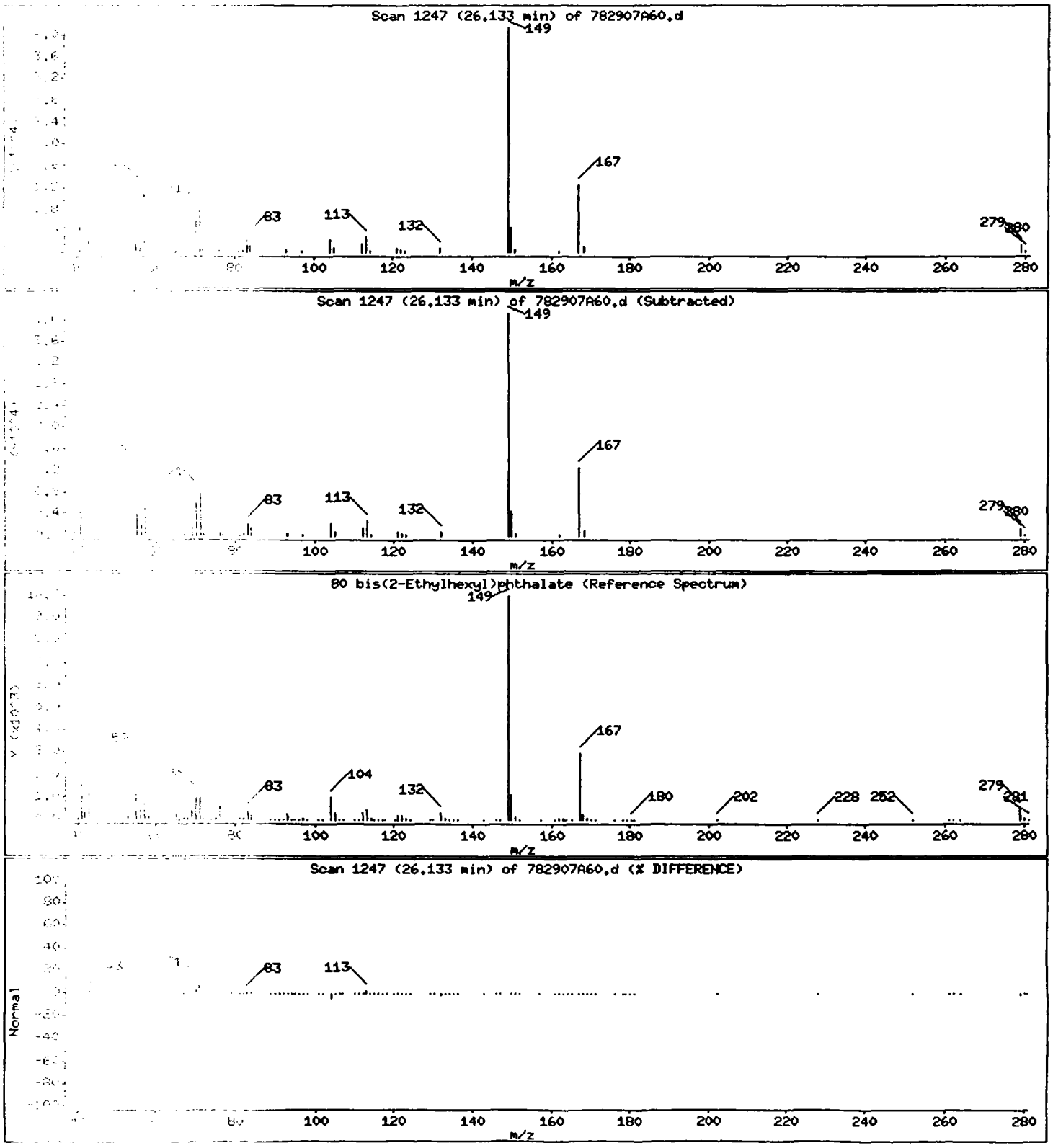
Data File: C:\Chem32\1\Data\5972hp60.i\DF051007A60.b\782907A60.d

Instrument: 5972hp60.i

Operator: 917

Column diameter: 0.32

Concentration: 12 ug/L



Data File :chem/5972hp60.i/DF051007A60.b/782907A60.d
Report Date: 1[illegible] Oct-2005 09:31

CompuChem

OLC03.0 + REVISIONS QUANT AND RATIO REPORT

Data File : /chem/5972hp60.i/DF051007A60.b/782907A60.d
Lab Smp ID: [illegible]7 Client Smp ID: ACSGWPWD26
Inj Date : [illegible]-OCT-2005 12:29
Operator : SH7 Inst ID: 5972hp60.i
Smp Info :
Misc Info :
Comment :
Method : /chem/5972hp60.i/DF051007A60.b/OLC03v5.m
Meth Date : 13-Oct-2005 08:59 henning Quant Type: ISTD
Cal Date : 07-OCT-2005 08:40 Cal File: HG051007A60.d
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: OLC03.sub
Target RT: [illegible] 2.50

NO TENTATIVELY IDENTIFIED COMPOUNDS -

1LCC
LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

ACSGWPWDUP26

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 782902 Date Received: 09/26/2005

Lab File ID: 782902A60 Date Extracted: 09/27/2005

Sample Volume: 1000(ML) Date Analyzed: 10/06/2005

Concentrated Extract Volume: 1000(UL) Dilution Factor: 1.0

Injection Volume: 1.0(UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
100-52-7	Benzaldehyde	5.0	U
108-95-2	Phenol	5.0	U
111-44-4	bis(2-Chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	5.0	U
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5.0	U
98-86-2	Acetophenone	5.0	U
106-44-5	4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	5.0	U
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	bis(2-Chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0	U
106-47-8	4-Chloroaniline	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	5.0	U
59-50-7	4-Chloro-3-methylphenol	5.0	U
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	U
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	20	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5.0	U

1LCD
LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

ACSGWPWDUP26

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 782902 Date Received: 09/26/2005

Lab File ID: 782902A60 Date Extracted: 09/27/2005

Sample Volume: 1000(ML) Date Analyzed: 10/06/2005

Concentrated Extract Volume: 1000(UL) Dilution Factor: 1.0

Injection Volume: 1.0(UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	5.0	U
84-66-2	Diethylphthalate	5.0	U
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-nitrosodiphenylamine (1)	5.0	U
95-94-3	1,2,4,5 Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	5.0	U
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
84-74-2	Di-n-butylphthalate	5.0	U
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	5.0	U
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo(a)anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	bis(2-Ethylhexyl)phthalate	5.0	U
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo(b)fluoranthene	5.0	U
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U
53-70-3	Dibenzo(a,h)anthracene	5.0	U
191-24-2	Benzo(g,h,i)perylene	5.0	U

(1) - Cannot be separated from Diphenylamine

1LCG
LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ACSGWPWDUP26

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 782902 Date Received: 09/26/2005

Lab File ID: 782902A60 Date Extracted: 09/27/2005

Sample Volume: 1000(ML) Date Analyzed: 10/06/2005

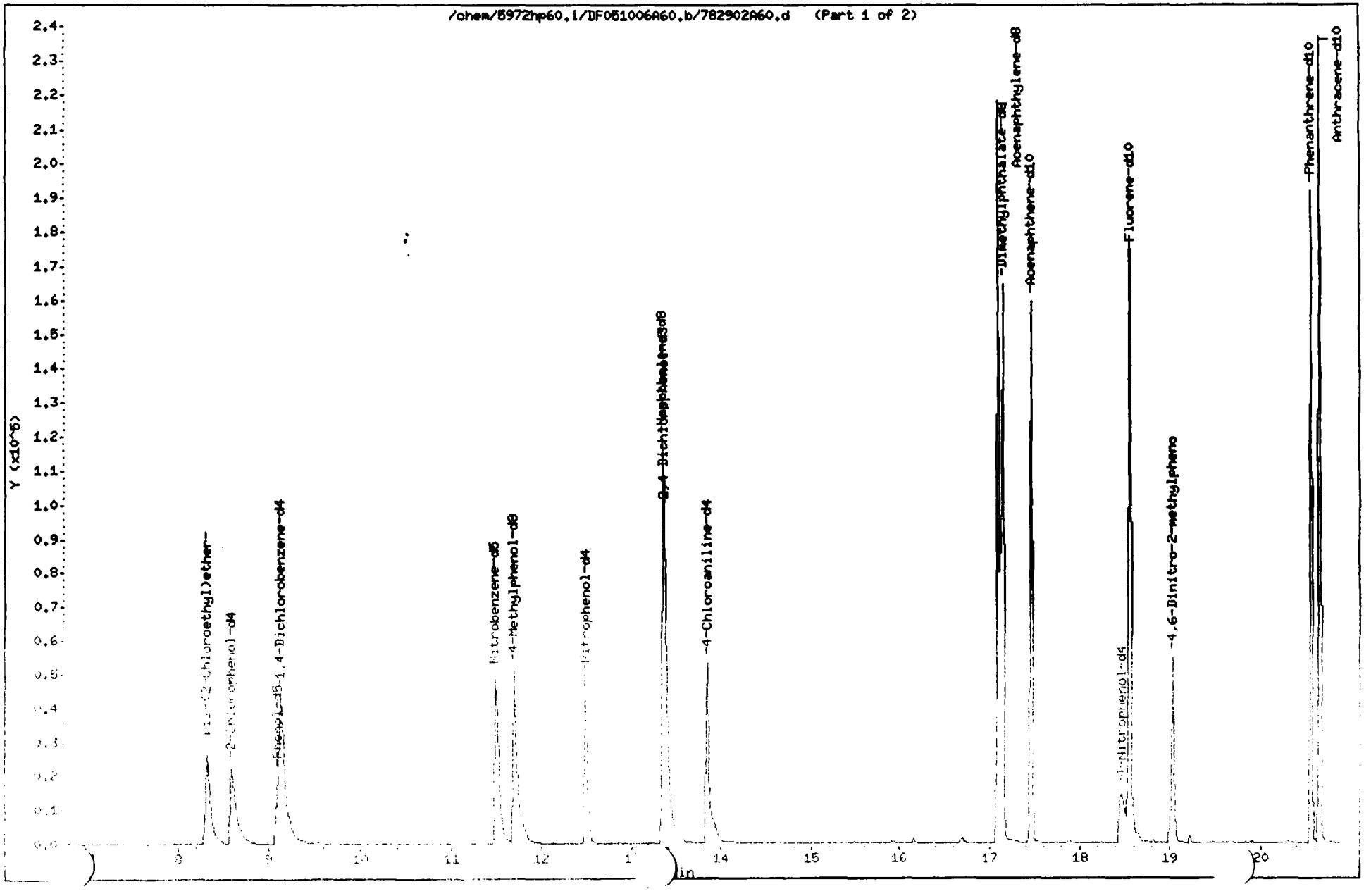
Concentrated Extract Volume: 1000(UL) Dilution Factor: 1.0

Injection Volume: 1.0(UL)

Number TICs found: 0

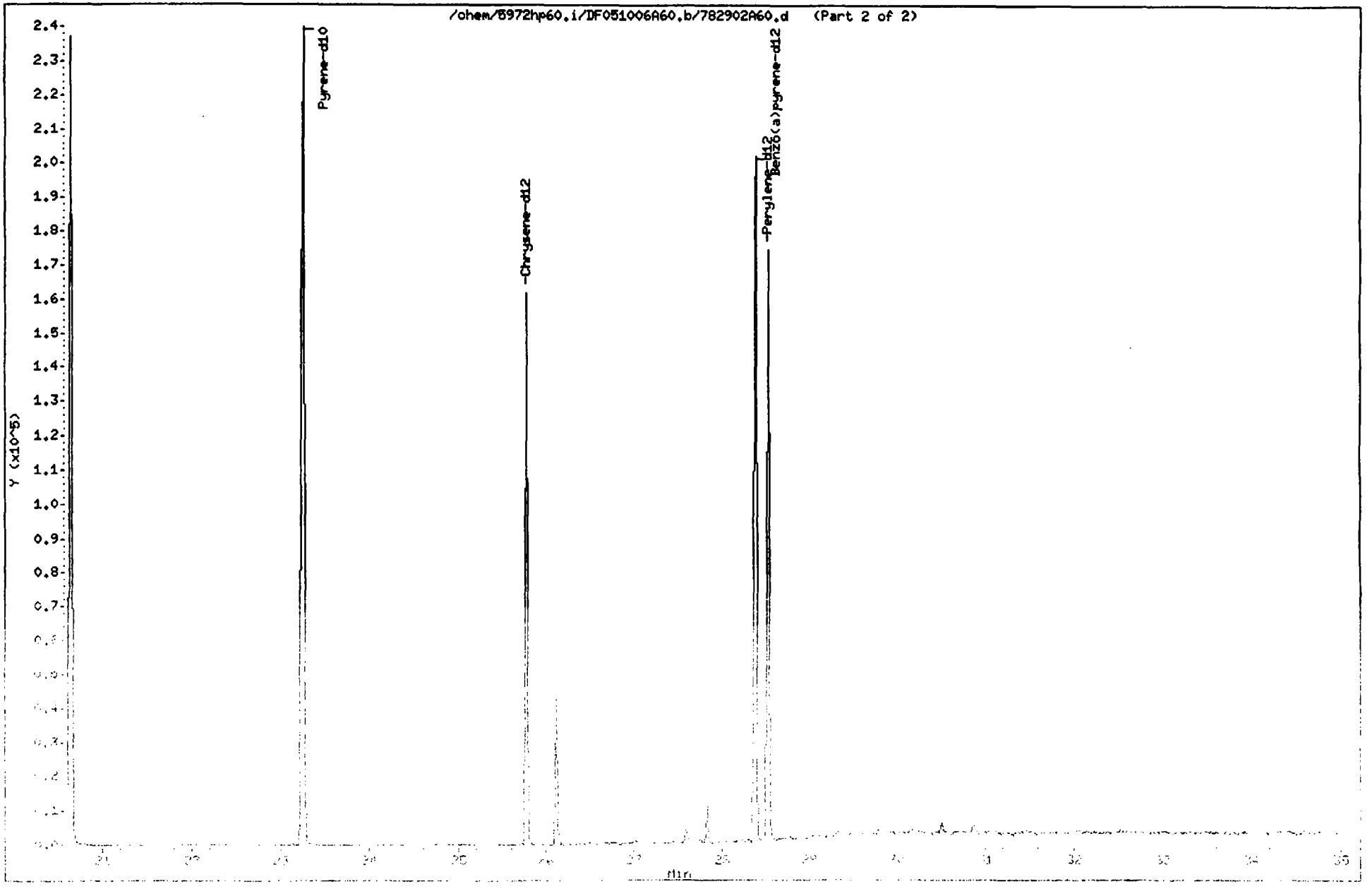
	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

Data File: /chem/5972hp60.i/DF051006A60.b/782902A60.d
Date : 06-OCT-2005 19:14
Client ID: ACSGWPWDUP26 Instrument: 5972hp60.i
Sample Info:
Volume Injected (uL): 1.0 Operator: 917
Column phase: RTX-5MS Column diameter: 0.32



Data File: /chem/5972hp60.i/DF051006A60.b/782902A60.d
Date : 06-OCT-2005 19:14
Client ID: ACSGWPWDUP26
Sample Info:
Volume Injected (uL): 1.0
Column phase: RTX-5MS

Instrument: 5972hp60.i
Operator: 917
Column diameter: 0.32



Data File: /chem/5972hp60.i/DF051006A60.b/782902A60.d
Report Date: 07-Oct-2005 14:23

CompuChem

OLC03.0 + REVISIONS QUANT AND RATIO REPORT

Data file : /chem/5972hp60.i/DF051006A60.b/782902A60.d
Lab Smp Id: 782902 Client Smp ID: ACSGWPWDUP26
Inj Date : 06-OCT-2005 19:14
Operator : 917 Inst ID: 5972hp60.i
Smp Info :
Misc Info :
Comment :
Method : /chem/5972hp60.i/DF051006A60.b/OLC03v5.m
Meth Date : 07-Oct-2005 10:57 henning Quant Type: ISTD
Cal Date : 06-OCT-2005 09:21 Cal File: HG051006A60.d
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: OLC03.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/(Vo * Vi) * CpndVariable

Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)	SIMILARITY
* 1 1,4-Dichlorobenzene-d4	152	9.125	9.130	(1.000)	24635	20.0000		
* 2 Naphthalene-d8	136	13.355	13.359	(1.000)	100624	20.0000		8758
* 3 Acenaphthene-d10	164	17.466	17.453	(1.000)	65366	20.0000		7762
* 4 Phenanthrene-d10	188	20.562	20.566	(1.000)	112515	20.0000		8797
* 5 Chrysene-d12	240	25.772	25.777	(1.000)	94310	20.0000		8323
* 6 Perylene-d12	264	28.530	28.534	(1.000)	104293	20.0000		8212(H)
$ 7 Phenol-d5	99	9.091	9.079	(0.996)	53317	23.7209	24	7134
$ 8 bis-(2-Chloroethyl)ether-d8	67	8.313	8.317	(0.911)	34185	24.6659	25	9027
$ 9 2-Chlorophenol-d4	132	8.584	8.571	(0.941)	41086	23.6055	24	8849
$ 10 4-Methylphenol-d8	113	11.697	11.701	(1.282)	47085	24.9353	25	9565(M)
$ 11 Nitrobenzene-d5	128	11.494	11.498	(0.861)	23022	25.1693	25	8586
$ 12 2-Nitrophenol-d4	143	12.492	12.479	(0.935)	27394	24.6886	25	8955
$ 13 2,4-Dichlorophenol-d3	165	13.372	13.359	(1.001)	44882	24.0799	24	7444
$ 14 4-Chloroaniline-d4	131	13.845	13.833	(1.037)	58115	23.3413	23	8835
$ 15 Dimethylphthalate-d6	166	17.144	17.132	(0.982)	138288	28.3338	28	9188
$ 16 Acenaphthylene-d8	160	17.093	17.098	(0.979)	170234	25.6602	26	9425
$ 17 4-Nitrophenol-d4	143	18.464	18.400	(1.057)	19576	30.5100	31	6064
$ 18 Fluorene-d10	176	18.565	18.553	(1.063)	108225	27.0515	27	9404
$ 19 4,6-Dinitro-2-methylphenol-d2	200	19.022	19.026	(0.925)	20197	21.5933	22	7749

10/7/05 JH

Data File: /chem/5972hp60.i/DF051006A60.b/782902A60.d
Report Date: 07-Oct-2005 14:23

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)	SIMILARITY
$ 20 Anthracene-d10	188	20.646	20.650	(1.004)	155106	27.6963	28	9328(H)
$ 21 Pyrene-d10	212	23.252	23.256	(0.902)	179651	30.4052	30	9273
$ 22 Benzo(a)pyrene-d12	264	28.395	28.382	(1.000)	164707	28.5485	29	8337(H)
23 Benzaldehyde	77	Compound Not Detected.						
24 Phenol	94	Compound Not Detected.						
25 bis(2-Chloroethyl)ether	93	Compound Not Detected.						
26 2-Chlorophenol	128	Compound Not Detected.						
27 2-Methylphenol	108	Compound Not Detected.						
28 2,2'-oxybis(1-Chloropropane)	45	Compound Not Detected.						
30 Acetophenone	105	Compound Not Detected.						
31 4-Methylphenol	108	Compound Not Detected.						
32 N-Nitroso-di-n-propylamine	70	Compound Not Detected.						
33 Hexachloroethane	117	Compound Not Detected.						
34 Nitrobenzene	77	Compound Not Detected.						
35 Isophorone	82	Compound Not Detected.						
36 2-Nitrophenol	139	Compound Not Detected.						
37 2,4-Dimethylphenol	107	Compound Not Detected.						
38 bis(2-Chloroethoxy)methane	93	Compound Not Detected.						
39 2,4-Dichlorophenol	162	Compound Not Detected.						
40 Naphthalene	128	Compound Not Detected.						
41 4-Chloroaniline	127	Compound Not Detected.						
42 Hexachlorobutadiene	225	Compound Not Detected.						
43 Caprolactam	113	Compound Not Detected.						
44 4-Chloro-3-methylphenol	107	Compound Not Detected.						
45 2-Methylnaphthalene	142	Compound Not Detected.						
46 1,2,4,5 Tetrachlorobenzene	216	Compound Not Detected.						
47 Hexachlorocyclopentadiene	237	Compound Not Detected.						
49 2,4,6-Trichlorophenol	196	Compound Not Detected.						
50 2,4,5-Trichlorophenol	196	Compound Not Detected.						
51 1,1'-Biphenyl	154	Compound Not Detected.						
52 2-Chloronaphthalene	162	Compound Not Detected.						
53 2-Nitroaniline	65	Compound Not Detected.						
54 Dimethylphthalate	163	Compound Not Detected.						
55 2,6-Dinitrotoluene	165	Compound Not Detected.						
56 Acenaphthylene	152	Compound Not Detected.						
57 3-Nitroaniline	138	Compound Not Detected.						
58 Acenaphthene	153	Compound Not Detected.						
59 2,4-Dinitrophenol	184	Compound Not Detected.						
60 4-Nitrophenol	109	Compound Not Detected.						
61 Dibenzofuran	168	Compound Not Detected.						
62 2,4-Dinitrotoluene	165	Compound Not Detected.						
63 Diethylphthalate	149	Compound Not Detected.						
64 Fluorene	166	Compound Not Detected.						
65 4-Chlorophenyl-phenylether	204	Compound Not Detected.						
66 4-Nitroaniline	138	Compound Not Detected.						
67 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.						
68 N-nitrosodiphenylamine	169	Compound Not Detected.						

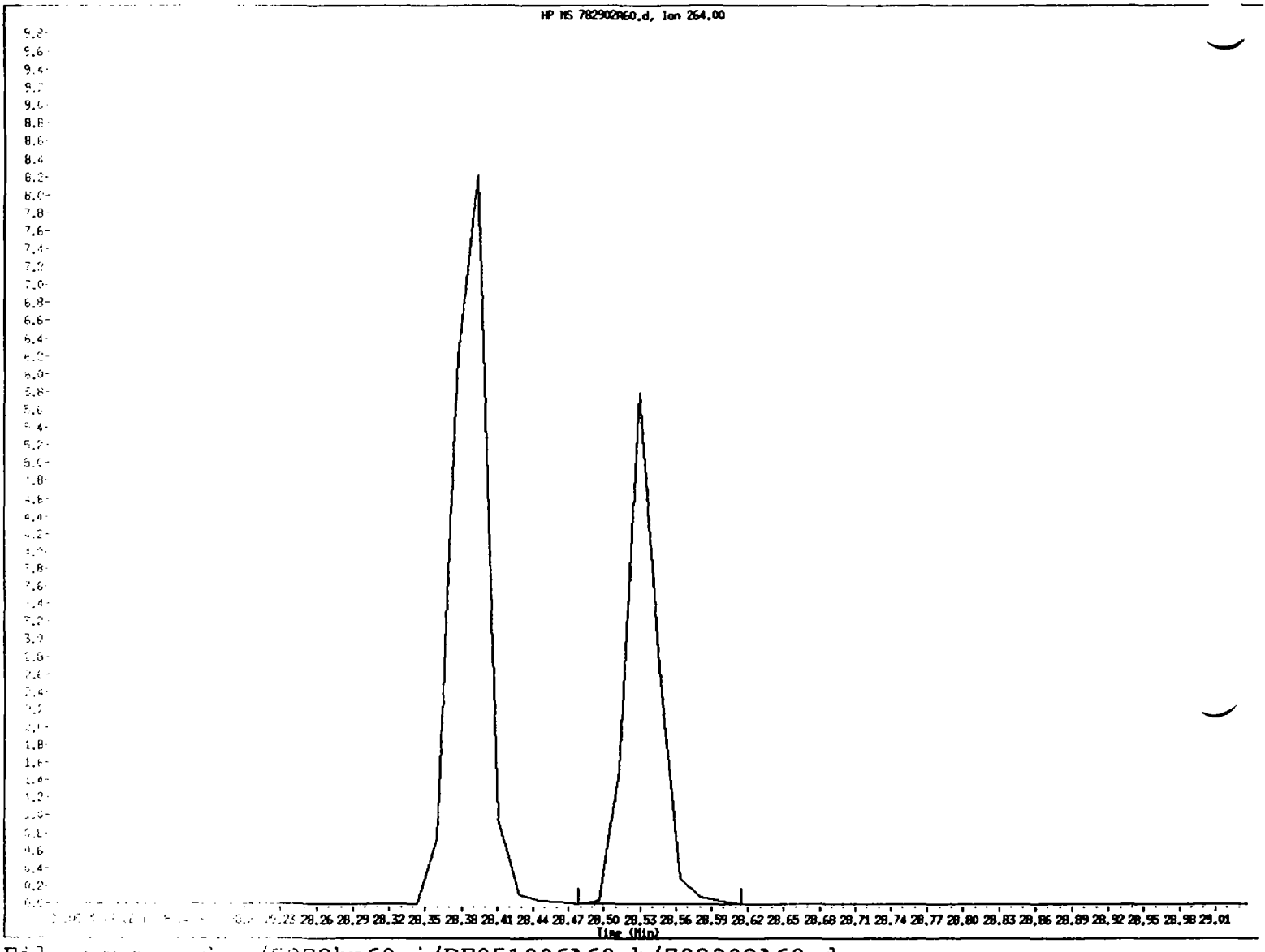
Data File: /chem/5972hp60.i/DF051006A60.b/782902A60.d
Report Date: 07-Oct-2005 14:23

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)	SIMILARITY
69 4-Bromophenyl-phenylether	248	Compound Not Detected.						
70 Hexachlorobenzene	284	Compound Not Detected.						
71 Atrazine	200	Compound Not Detected.						
72 Pentachlorophenol	266	Compound Not Detected.						
73 Phenanthrene	178	Compound Not Detected.						
74 Anthracene	178	Compound Not Detected.						
75 Di-n-butylphthalate	149	Compound Not Detected.						
76 Fluoranthene	202	Compound Not Detected.						
77 Pyrene	202	Compound Not Detected.						
78 Butylbenzylphthalate	149	Compound Not Detected.						
79 3,3'-Dichlorobenzidine	252	Compound Not Detected.						
80 bis(2-Ethylhexyl)phthalate	149	Compound Not Detected.						
81 Benzo(a)anthracene	228	Compound Not Detected.						
82 Chrysene	228	Compound Not Detected.						
83 Di-n-octylphthalate	149	Compound Not Detected.						
84 Benzo(b)fluoranthene	252	Compound Not Detected.						
85 Benzo(k)fluoranthene	252	Compound Not Detected.						
86 Benzo(a)pyrene	252	Compound Not Detected.						
87 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.						
88 Dibenzo(a,h)anthracene	278	Compound Not Detected.						
89 Benzo(g,h,i)perylene	276	Compound Not Detected.						

Flag Legend

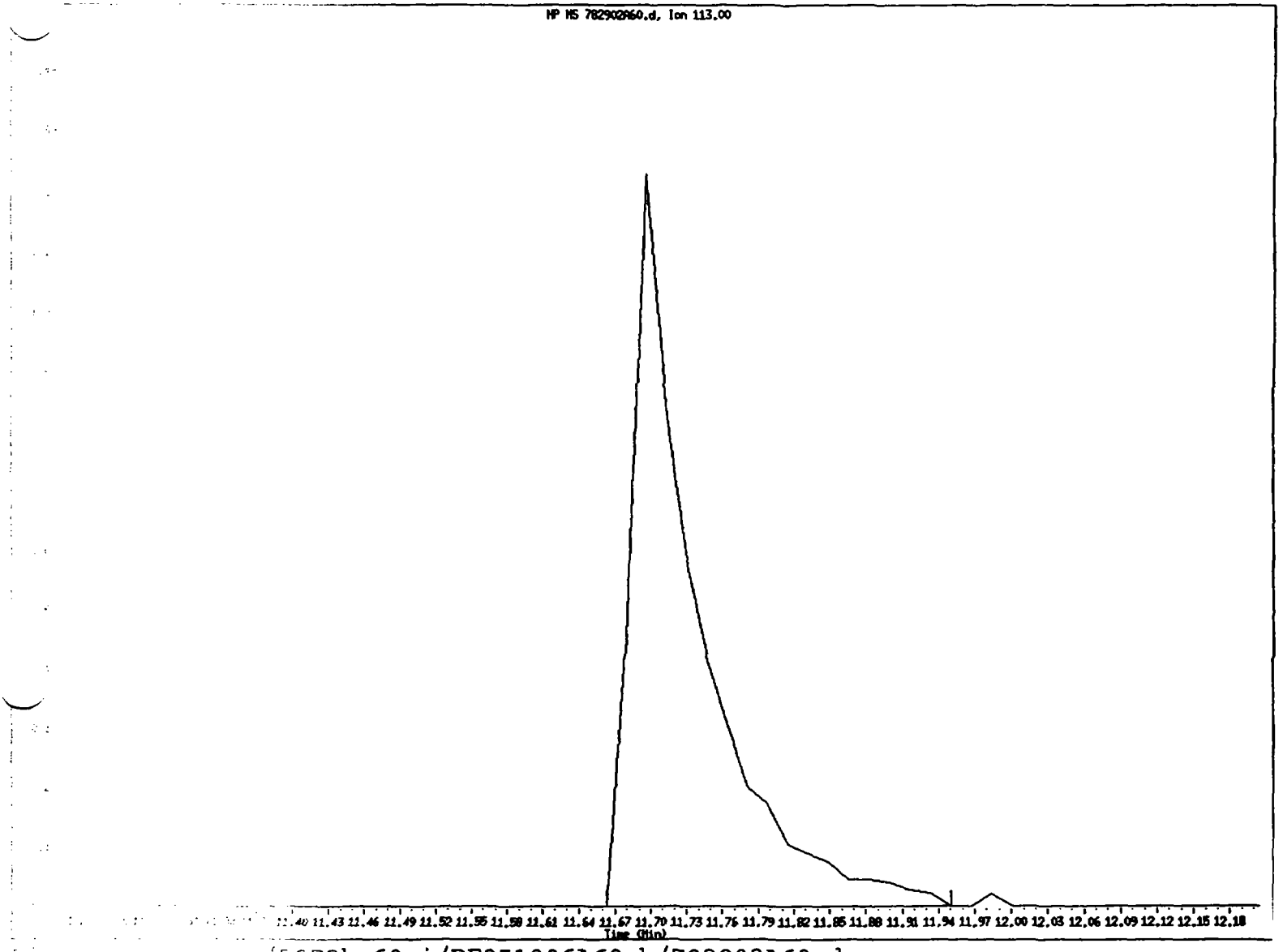
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Perylene d12 CAS Number 1520-96-3 Area = 104293 User selected hit



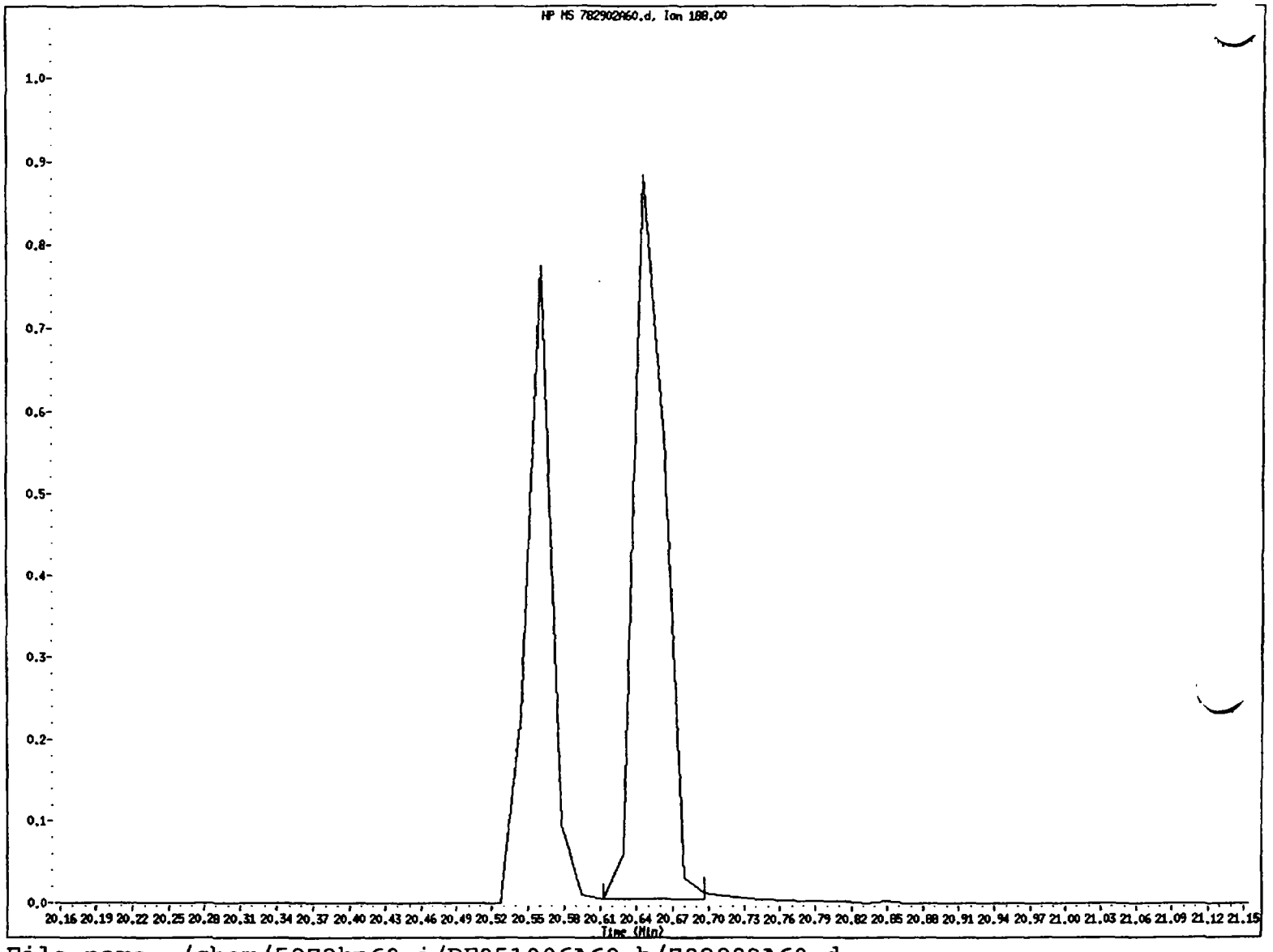
File name: c:\hpchem\5972hp60.i/DF051006A60.b/782902A60.d
Client ID: ACSCWPWDUP26
Instrument ID: 5972hp60.i
Injection Date and Time: 06-OCT-2005 19:14
Retention Time: 28.53
Operator ID: 917

4-Methylphenol-d8 CAS Number 190780-66-6 Area = 47085 Manually integrated



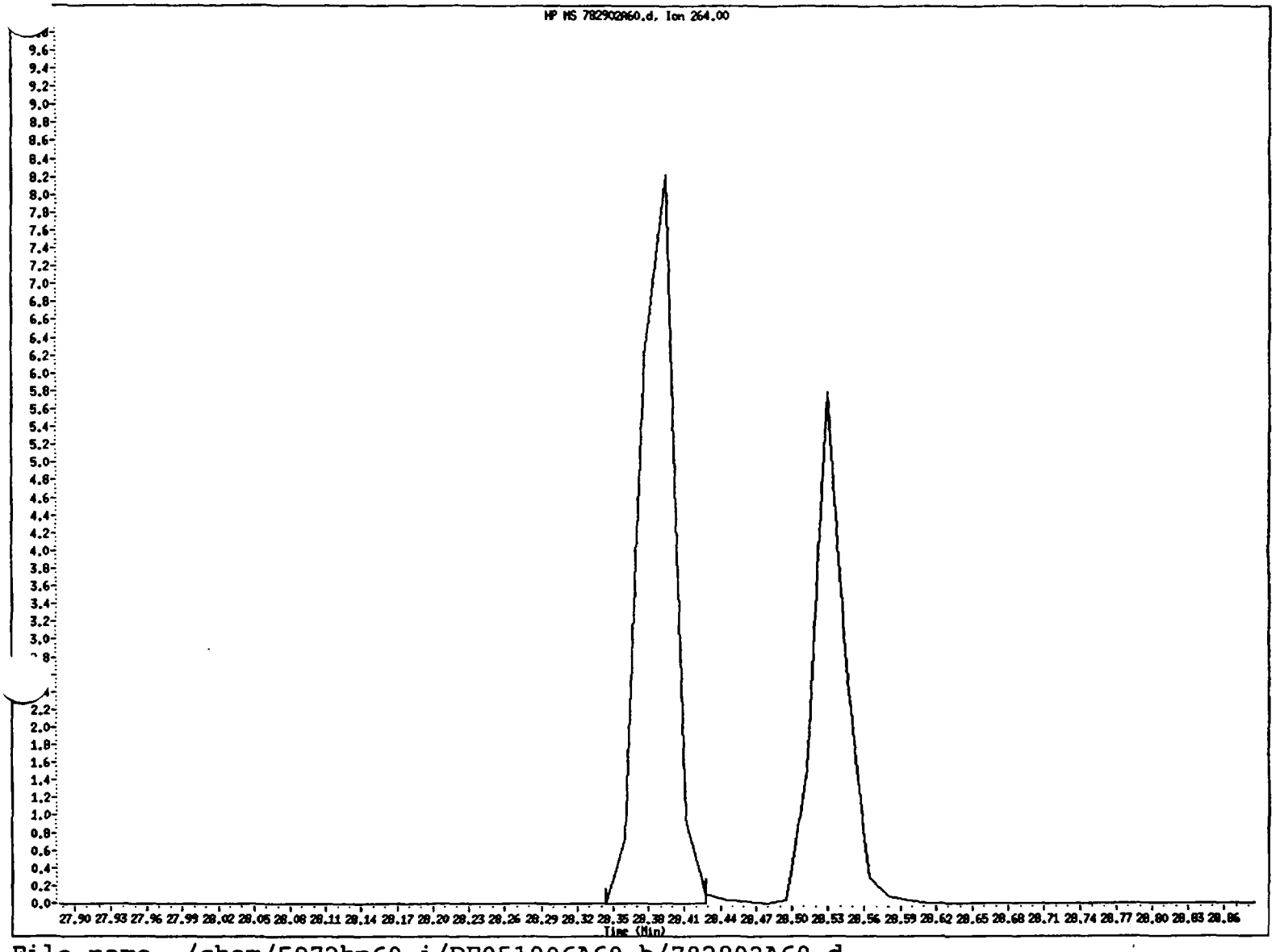
[illegible]/5972hp60.i/DF051006A60.b/782902A60.d
[illegible]WPWDUP26
Instrument ID: 5972hp60.i
Injection Date and Time: 06-OCT-2005 19:14
Retention Time: 11.70
Operator ID: 917

Anthracene-d10 CAS Number 1719-06-8 Area = 155106 User selected hit



File name: /chem/5972hp60.i/DF051006A60.b/782902A60.d
Client ID: ACSGWPWDUP26
Instrument ID: 5972hp60.i
Injection Date and Time: 06-OCT-2005 19:14
Retention Time: 20.65
Operator ID: 917

Benzo(a)pyrene-d12 CAS Number 63466-71-7 Area = 164707 User selected hit



File name: /chem/5972hp60.i/DF051006A60.b/782902A60.d
Client ID: ACSGWPWDUP26
Instrument ID: 5972hp60.i
Injection Date and Time: 06-OCT-2005 19:14
Retention Time: 28.39
Operator ID: 917

Data File: /chem/5972hp60.i/DF051006A60.b/782902A60.d
Report Date: 07-Oct-2005 14:23

CompuChem

OLC03.0 + REVISIONS QUANT AND RATIO REPORT

Data file : /chem/5972hp60.i/DF051006A60.b/782902A60.d
Lab Smp Id: 782902 Client Smp ID: ACSGWPWDUP26
Inj Date : 06-OCT-2005 19:14
Operator : 917 Inst ID: 5972hp60.i
Smp Info :
Misc Info :
Comment :
Method : /chem/5972hp60.i/DF051006A60.b/OLC03v5.m
Meth Date : 07-Oct-2005 10:57 henning Quant Type: ISTD
Cal Date : 06-OCT-2005 09:21 Cal File: HG051006A60.d
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: OLC03.sub
Target Version: 3.50

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

1LCC
LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

ACSGWPWT26

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 782904 Date Received: 09/27/2005

Lab File ID: 782904A60 Date Extracted: 09/27/2005

Sample Volume: 1000(ML) Date Analyzed: 10/06/2005

Concentrated Extract Volume: 1000(UL) Dilution Factor: 1.0

Injection Volume: 1.0(UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
100-52-7	Benzaldehyde	5.0	U
108-95-2	Phenol	5.0	U
111-44-4	bis(2-Chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	5.0	U
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5.0	U
98-86-2	Acetophenone	5.0	U
106-44-5	4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	5.0	U
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	bis(2-Chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0	U
106-47-8	4-Chloroaniline	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	5.0	U
59-50-7	4-Chloro-3-methylphenol	5.0	U
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	U
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	20	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5.0	U

1LCD
LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

ACSGWPWT26

Contract: OLC03-REVS

Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 782904

Lab File ID: 782904A60

Date Received: 09/27/2005

Date Extracted: 09/27/2005

1000(ML)

Date Analyzed: 10/06/2005

Extract Volume: 1000(UL)

Dilution Factor: 1.0

Volume: 1.0(UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
	4 Dinitrophenol	20	U
	Nitrophenol	20	U
	benzofuran	5.0	U
	Dinitrotoluene	5.0	U
	thylphthalate	5.0	U
	orene	5.0	U
	Chlorophenyl-phenylether	5.0	U
	Nitroaniline	20	U
	Dinitro-2-methylphenol	20	U
	Nitrosodiphenylamine (1)	5.0	U
	1,2,4,5 Tetrachlorobenzene	5.0	U
	4 Bromophenyl-phenylether	5.0	U
	Hexachlorobenzene	5.0	U
	Atrazine	5.0	U
	Pentachlorophenol	5.0	U
	Phenanthrene	5.0	U
	Anthracene	5.0	U
	Di-n-butylphthalate	5.0	U
	Fluoranthene	5.0	U
	Pyrene	5.0	U
	Butylbenzylphthalate	5.0	U
	3,3'-Dichlorobenzidine	5.0	U
	Benzo(a)anthracene	5.0	U
	Chrysene	5.0	U
	Bis(2-Ethylhexyl)phthalate	18	B
	Di-n-octylphthalate	5.0	U
	Benzo(b)fluoranthene	5.0	U
	Benzo(k)fluoranthene	5.0	U
	Benzo(a)pyrene	5.0	U
	Indeno(1,2,3-cd)pyrene	5.0	U
	Dibenzo(a,h)anthracene	5.0	U
	Benzo(g,h,i)perylene	5.0	U

(1) Cannot be separated from Diphenylamine

FORM I LCSV-2

OLC03.2

1LCG
LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ACSGWPWT26

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 782904 Date Received: 09/27/2005

Lab File ID: 782904A60 Date Extracted: 09/27/2005

Sample Volume: 1000(ML) Date Analyzed: 10/06/2005

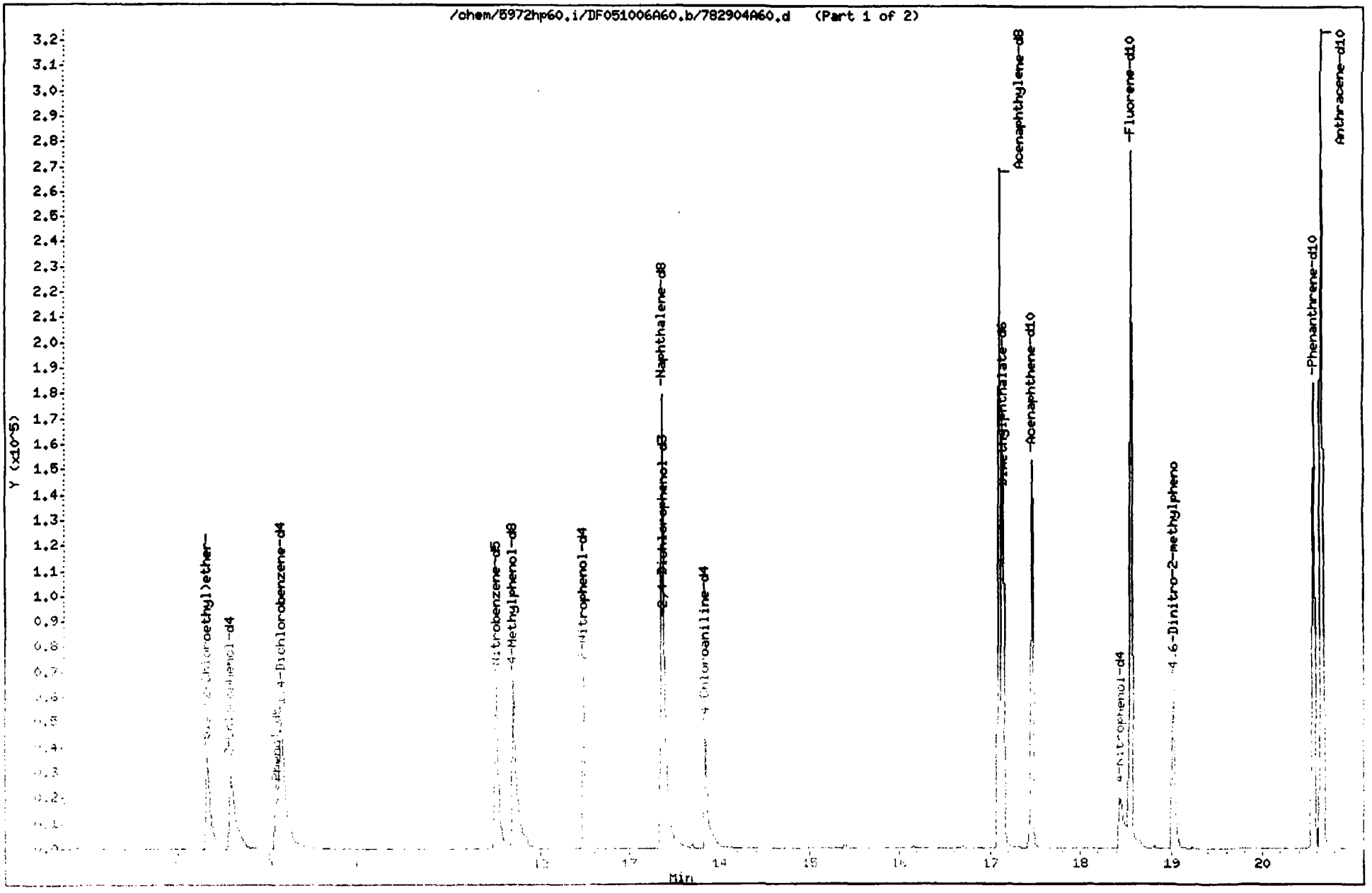
Concentrated Extract Volume: 1000(UL) Dilution Factor: 1.0

Injection Volume: 1.0(UL)

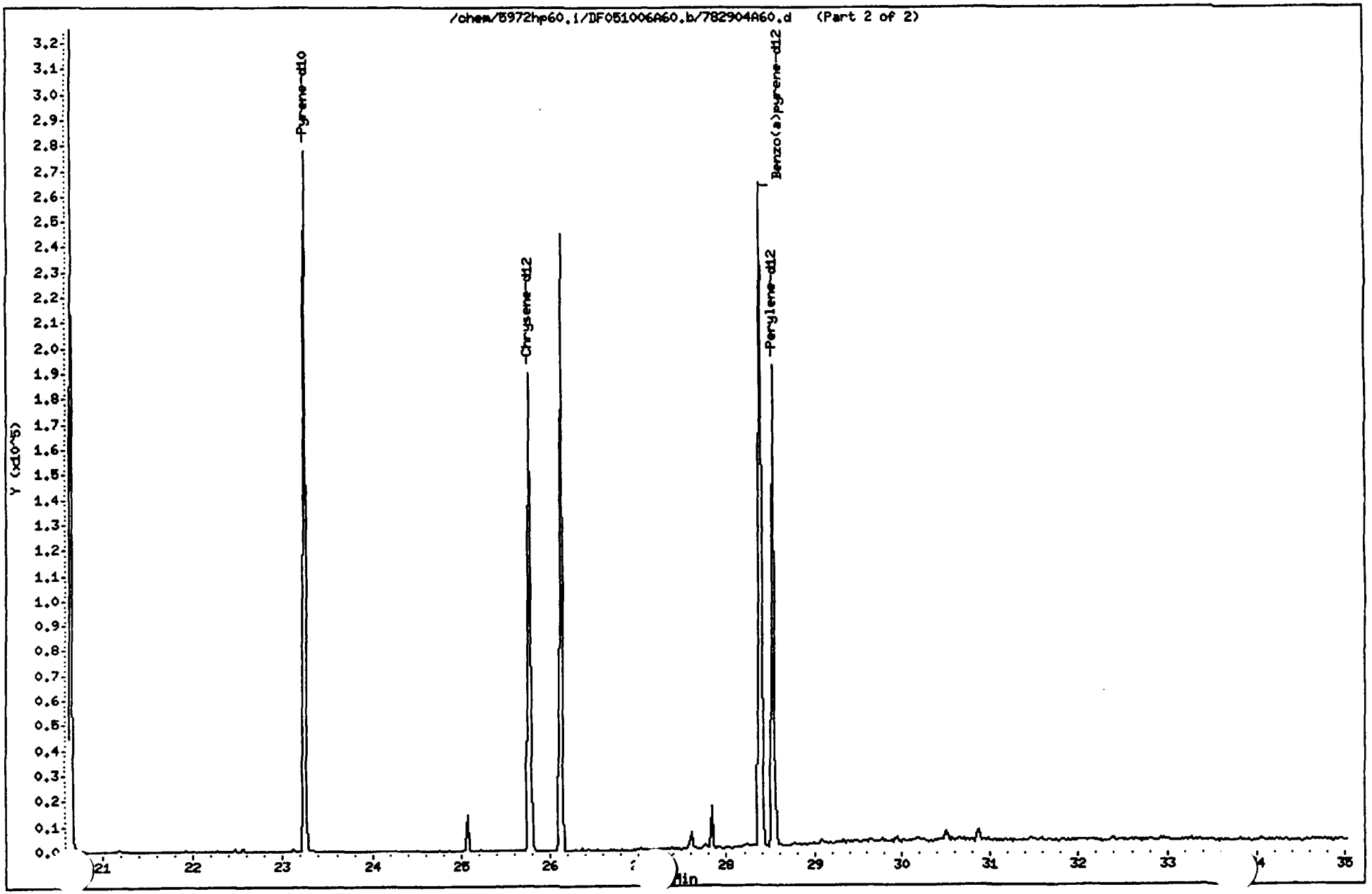
Number TICs found: 0

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

Data File: /chem/5972hp60.i/DF051006A60.b/782904A60.d
Date : 06-OCT-2006 20:45
Client ID: ACSGWPWT26
Instrument: 5972hp60.i
Sample Info:
Volume Injected (uL): 1.0
Operator: 917
Column phase: RTX-5MS
Column diameter: 0.32



Data File: /chem/5972hp60.i/DF051006A60.b/782904A60.d
Date : 06-OCT-2005 20:45
Client ID: ACSGWPWT26
Instrument: 5972hp60.i
Sample Info:
Volume Injected (uL): 1.0
Operator: 917
Column phase: RTX-5MS
Column diameter: 0.32



Data File /chem/5972hp60.i/DF051006A60.b/782904A60.d
Report Date: 07-Oct-2005 14:23

CompuChem

OLC03.0 + REVISIONS QUANT AND RATIO REPORT

Data File : /chem/5972hp60.i/DF051006A60.b/782904A60.d
Lab Smp ID: 782904 Client Smp ID: ACSGWPWT26
Inj Date : 06-OCT-2005 20:45
Operator : 297 Inst ID: 5972hp60.i
Smp Info :
Misc Info :
Comment :
Method : /chem/5972hp60.i/DF051006A60.b/OLC03v5.m
Meth Date : 07-Oct-2005 10:57 henning Quant Type: ISTD
Cal Date : 06-OCT-2005 09:21 Cal File: HG051006A60.d
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: OLC03.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/(Vo * Vi) * CpndVariable
Vt 1000.00000 Volume of final extract (uL)
Vo 1000.00000 Volume of sample extracted (mL)
Vi 1.00000 Volume injected (uL)

Cpnd Variable Local Compound Variable

Compound	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)	SIMILARITY
* [illegible]-d4	152	9.129	9.130	(1.000)	28733	20.0000		
* [illegible]	136	13.359	13.359	(1.000)	117534	20.0000		8838
* [illegible]	164	17.453	17.453	(1.000)	72584	20.0000		8130
* [illegible]	188	20.566	20.566	(1.000)	126642	20.0000		8815
* [illegible]	240	25.776	25.777	(1.000)	112164	20.0000		8396
* [illegible]	264	28.534	28.534	(1.000)	116875	20.0000		8432
$ [illegible]	99	9.078	9.079	(0.994)	68834	26.2567	26	7121(M)
$ [illegible]-ether-d8	67	8.317	8.317	(0.911)	42131	26.0636	26	9231
$ [illegible]	132	8.571	8.571	(0.939)	53381	26.2953	26	9072
$ [illegible]	113	11.684	11.701	(1.280)	58454	26.5411	27	9560
$ [illegible]	128	11.498	11.498	(0.861)	29149	27.2829	27	8567
$ [illegible]	143	12.479	12.479	(0.934)	33690	25.9944	26	9239
$ [illegible]	165	13.376	13.359	(1.001)	57308	26.3230	26	7571
$ [illegible]	131	13.832	13.833	(1.035)	52053	17.8986	18	9393
$ [illegible]	166	17.148	17.132	(0.983)	164882	30.4232	30	8619
$ [illegible]	160	17.097	17.098	(0.980)	209590	28.4509	28	9329
$ [illegible]	143	18.451	18.400	(1.057)	25480	35.7626	36	6064(M)
$ [illegible]	176	18.552	18.553	(1.063)	134247	30.2189	30	9506
$ [illegible]phenol-d2	200	19.026	19.026	(0.925)	27602	26.2184	26	7650

Data File: /chem/5972hp60.i/DF051006A60.b/782904A60.d
Report Date: 07-Oct-2005 14:23

	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)	SIMILARITY
	188	20.650	20.650	(1.004)	185851	29.4843	29	9422(H)
	212	23.256	23.256	(0.902)	225927	32.1507	32	9279
	264	28.382	28.382	(0.995)	203729	31.5107	32	8312(H)
	77	Compound Not Detected.						
	94	Compound Not Detected.						
	93	Compound Not Detected.						
	128	Compound Not Detected.						
	108	Compound Not Detected.						
	45	Compound Not Detected.						
	105	Compound Not Detected.						
	108	Compound Not Detected.						
	70	Compound Not Detected.						
	117	Compound Not Detected.						
	77	Compound Not Detected.						
	82	Compound Not Detected.						
	139	Compound Not Detected.						
	107	Compound Not Detected.						
	93	Compound Not Detected.						
	162	Compound Not Detected.						
	128	Compound Not Detected.						
	127	Compound Not Detected.						
	225	Compound Not Detected.						
	113	Compound Not Detected.						
	107	Compound Not Detected.						
	142	Compound Not Detected.						
	216	Compound Not Detected.						
	237	Compound Not Detected.						
	196	Compound Not Detected.						
	196	Compound Not Detected.						
	154	Compound Not Detected.						
	162	Compound Not Detected.						
	65	Compound Not Detected.						
	163	Compound Not Detected.						
	165	Compound Not Detected.						
	152	Compound Not Detected.						
	138	Compound Not Detected.						
	153	Compound Not Detected.						
	184	Compound Not Detected.						
	109	Compound Not Detected.						
	168	Compound Not Detected.						
	165	Compound Not Detected.						
	149	Compound Not Detected.						
	166	Compound Not Detected.						
	204	Compound Not Detected.						
	138	Compound Not Detected.						
	198	Compound Not Detected.						
	169	Compound Not Detected.						

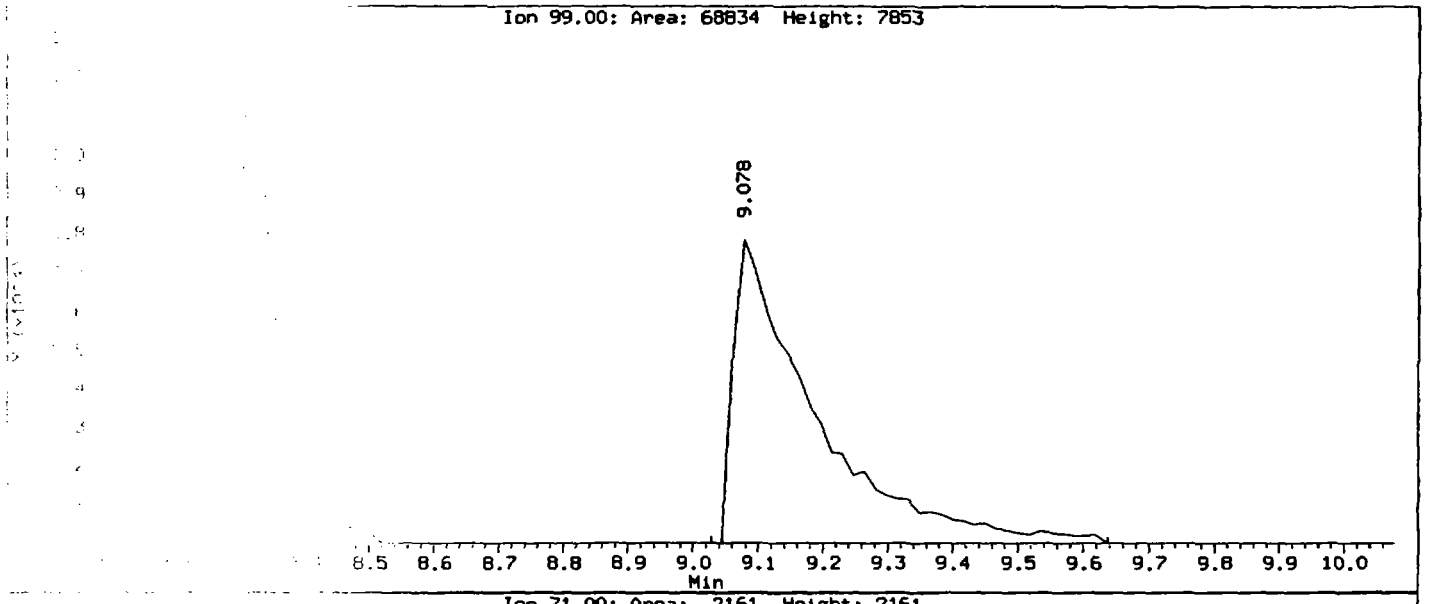
Data File: /chem/5972hp60.i/DF051006A60.b/782904A60.d
Report Date: 07-Oct-2005 14:23

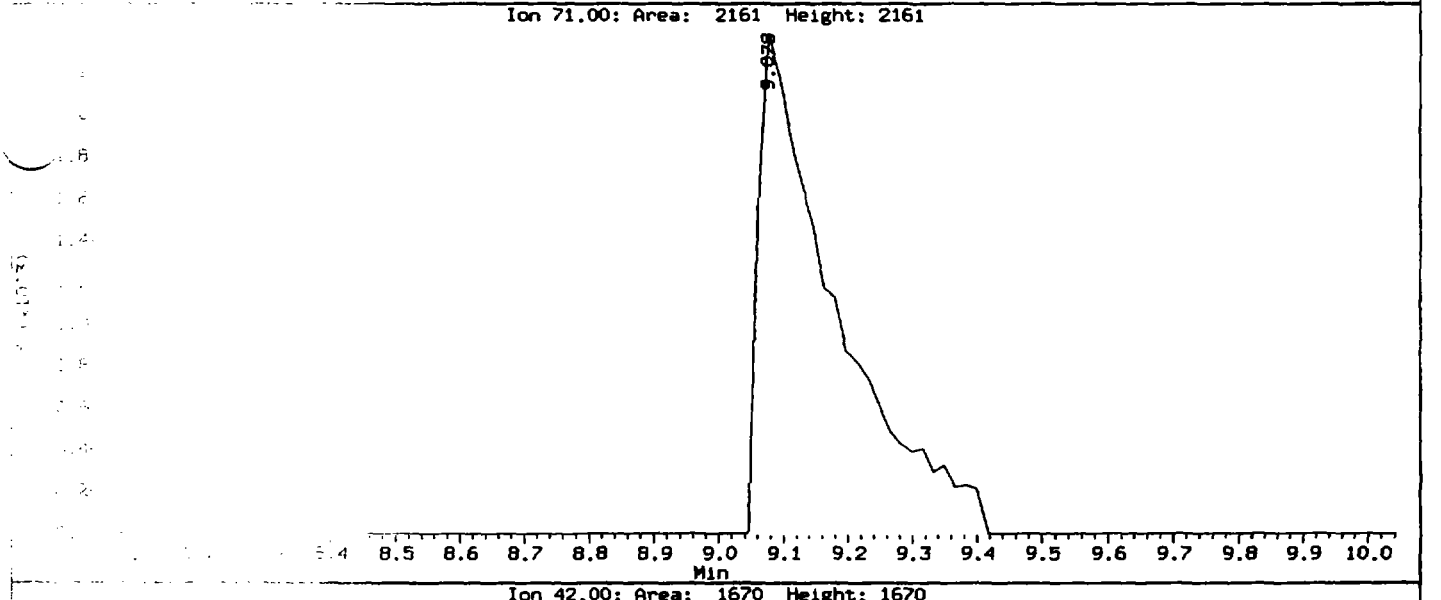
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)	SIMILARITY
69 4-Bromophenyl-phenylether	248	Compound Not Detected.						
70 Hexachlorobenzene	284	Compound Not Detected.						
71 Atrazine	200	Compound Not Detected.						
72 Pentachlorophenol	266	Compound Not Detected.						
73 Phenanthrene	178	Compound Not Detected.						
74 Anthracene	178	Compound Not Detected.						
75 Di-n-butylphthalate	149	Compound Not Detected.						
76 Fluoranthene	202	Compound Not Detected.						
77 Pyrene	202	Compound Not Detected.						
78 Butylbenzylphthalate	149	Compound Not Detected.						
79 3,3'-Dichlorobenzidine	252	Compound Not Detected.						
80 bis(2-Ethylhexyl)phthalate	149	26.131	26.132	(1.014)	119726	17.8171	18	9225
81 Benzo(a)anthracene	228	Compound Not Detected.						
82 Chrysene	228	Compound Not Detected.						
83 Di-n-octylphthalate	149	Compound Not Detected.						
84 Benzo(b)fluoranthene	252	Compound Not Detected.						
85 Benzo(k)fluoranthene	252	Compound Not Detected.						
86 Benzo(a)pyrene	252	Compound Not Detected.						
87 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.						
88 Dibenzo(a,h)anthracene	278	Compound Not Detected.						
89 Benzo(g,h,i)perylene	276	Compound Not Detected.						

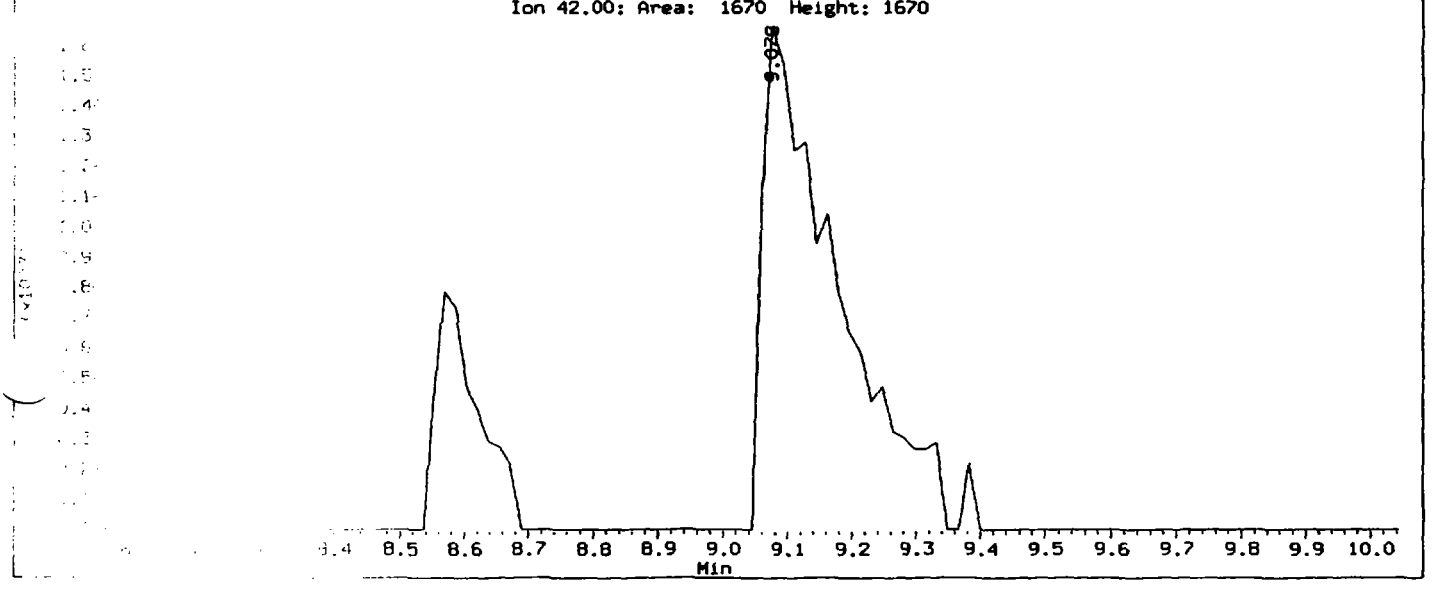
QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

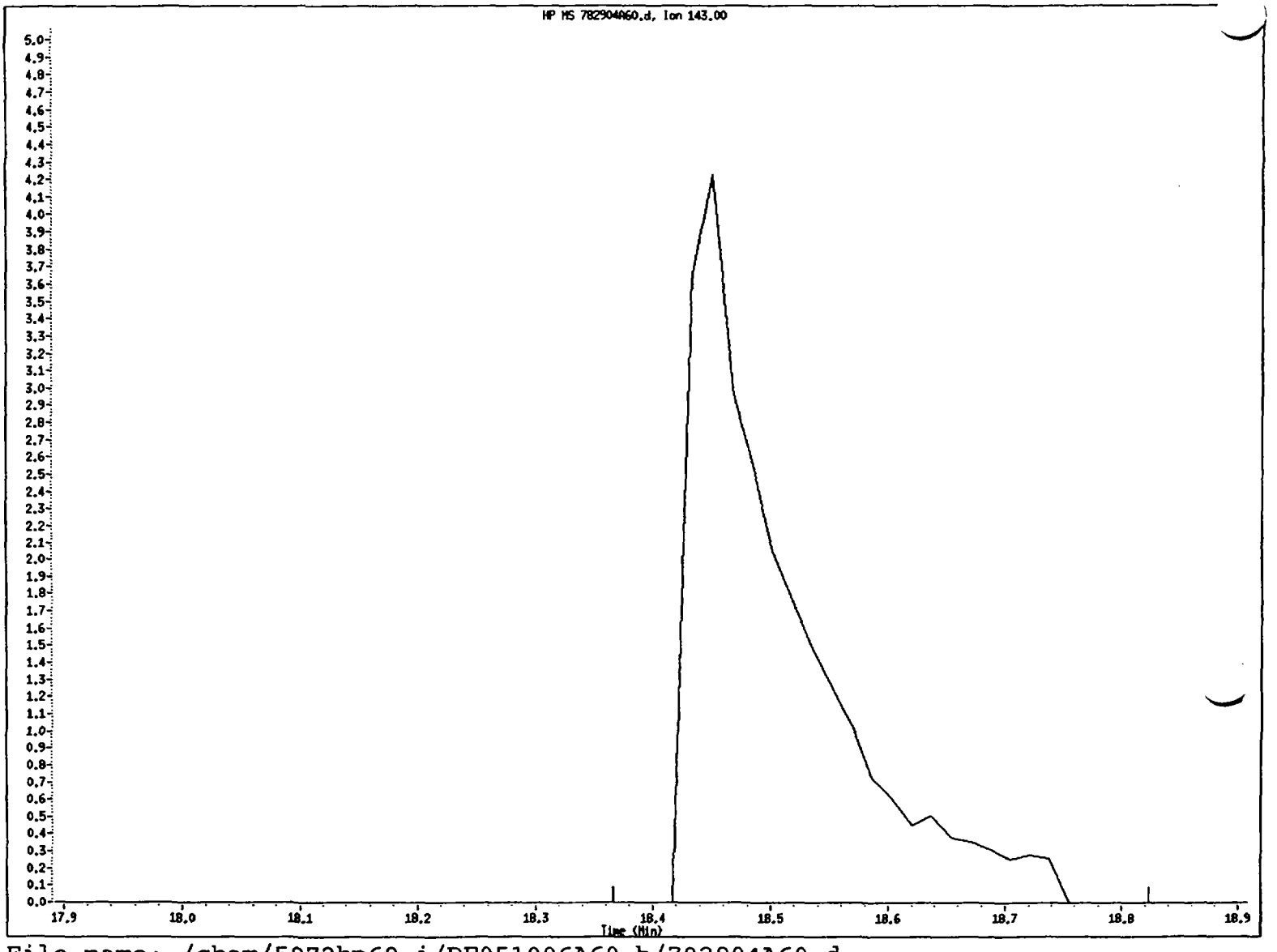
/DF051006A60.b/782904A60.d
20:45





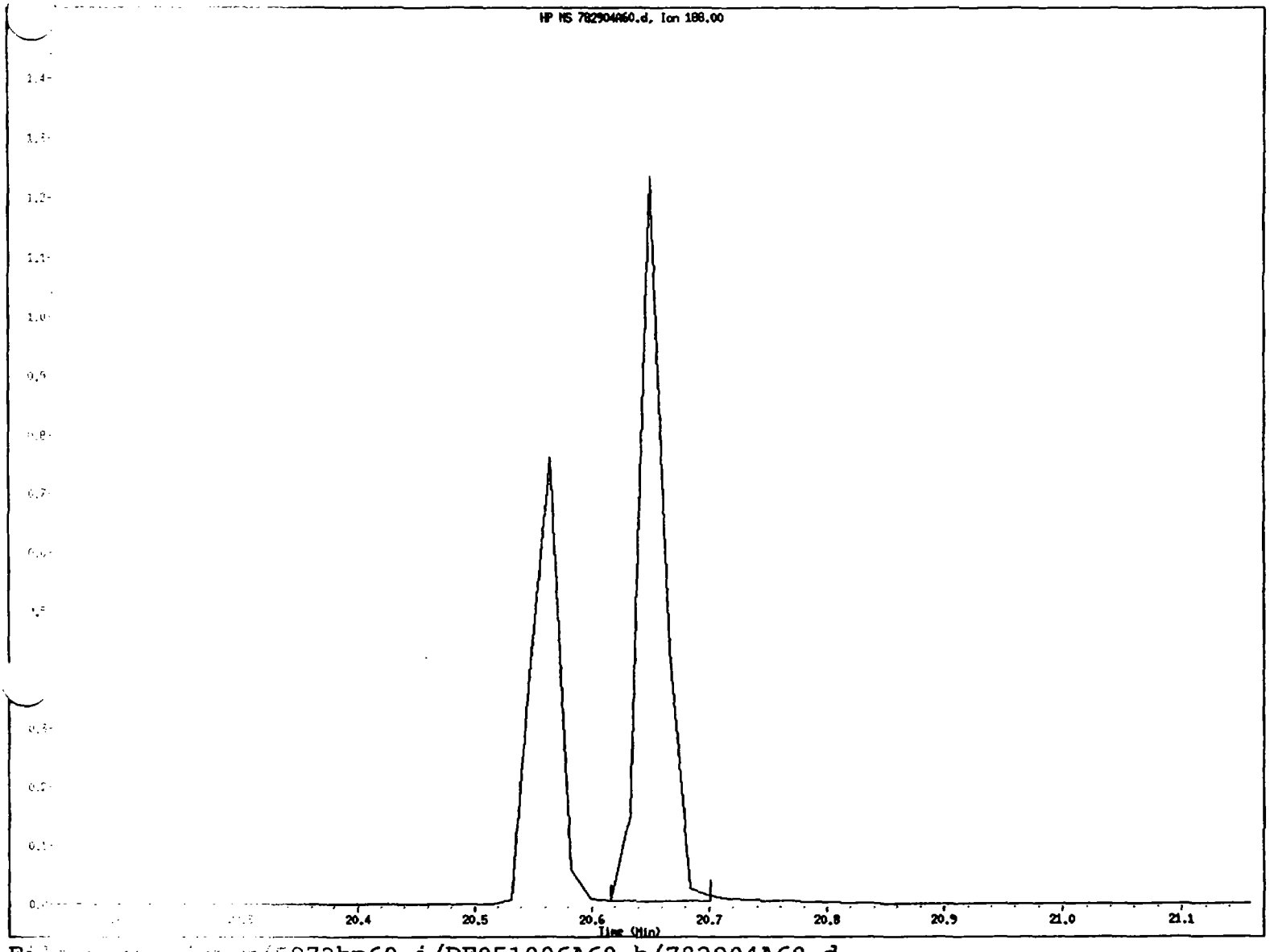


4-Nitrophenol-d4 CAS Number 93951-79-2 Area = 25480 Manually integrated



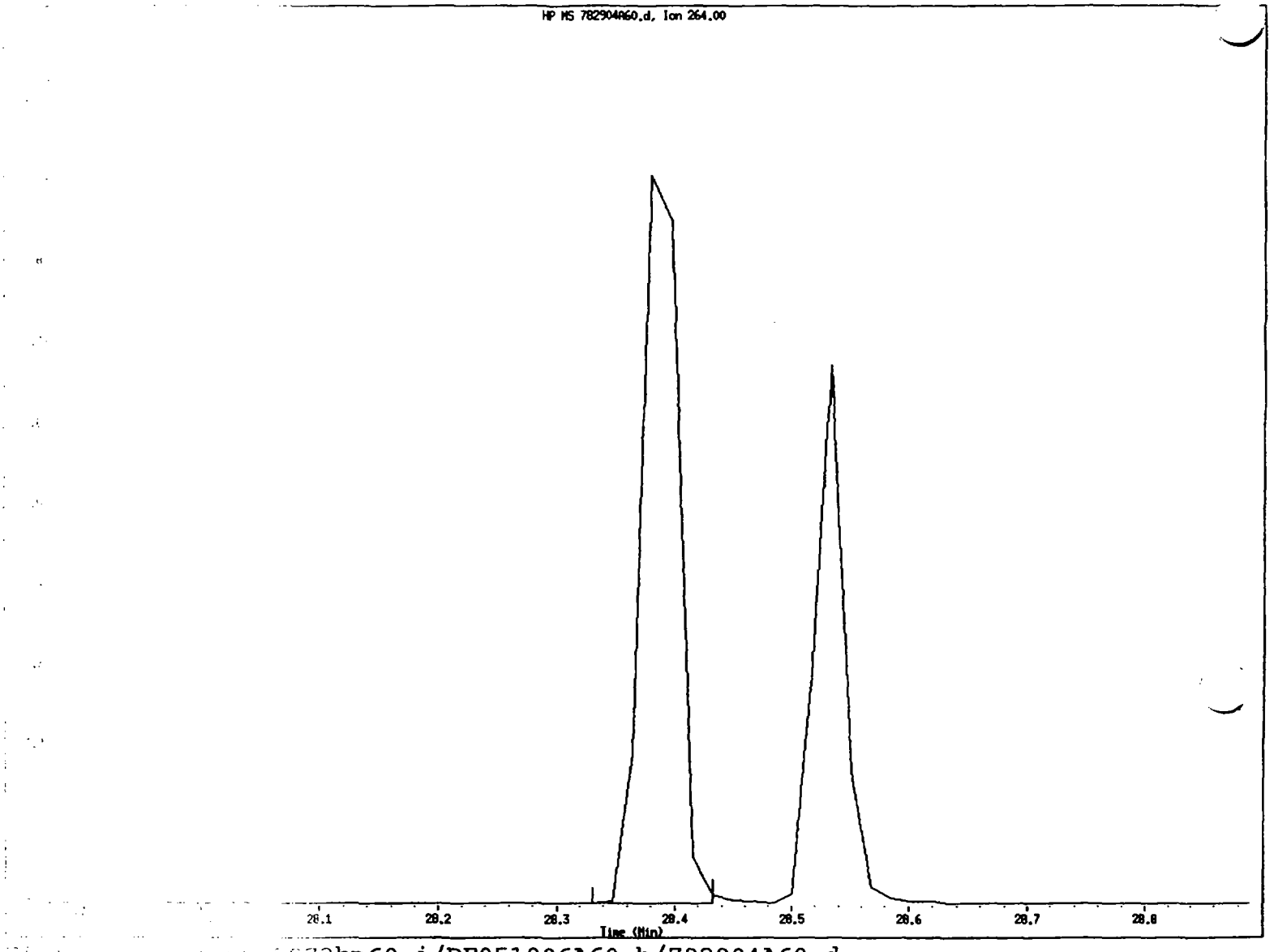
File name: /chem/5972hp60.i/DF051006A60.b/782904A60.d
Client ID: ACSGWPWT26
Instrument ID: 5972hp60.i
Injection Date and Time: 06-OCT-2005 20:45
Retention Time: 18.45
Operator ID: 917

Anthracene-d10 CAS Number 1719-06-8 Area = 185851 User selected hit



File Name: /chem/5972hp60.i/DF051006A60.b/782904A60.d
Client ID: ACSGWPWT26
Instrument ID: 5972hp60.i
Injection Date and Time: 06-OCT-2005 20:45
Retention Time: 20.65
Operator ID: 917

512 CAS Number 63466-71-7 Area = 203729 User selected hit



5972hp60.i/DF051006A60.b/782904A60.d
WT26
72hp60.i
d Time: 06-OCT-2005 20:45
8.38

Data File: /chem/5972hp60.i/DF051006A60.b/782904A60.d

Date : 06-OCT-2005 20:45

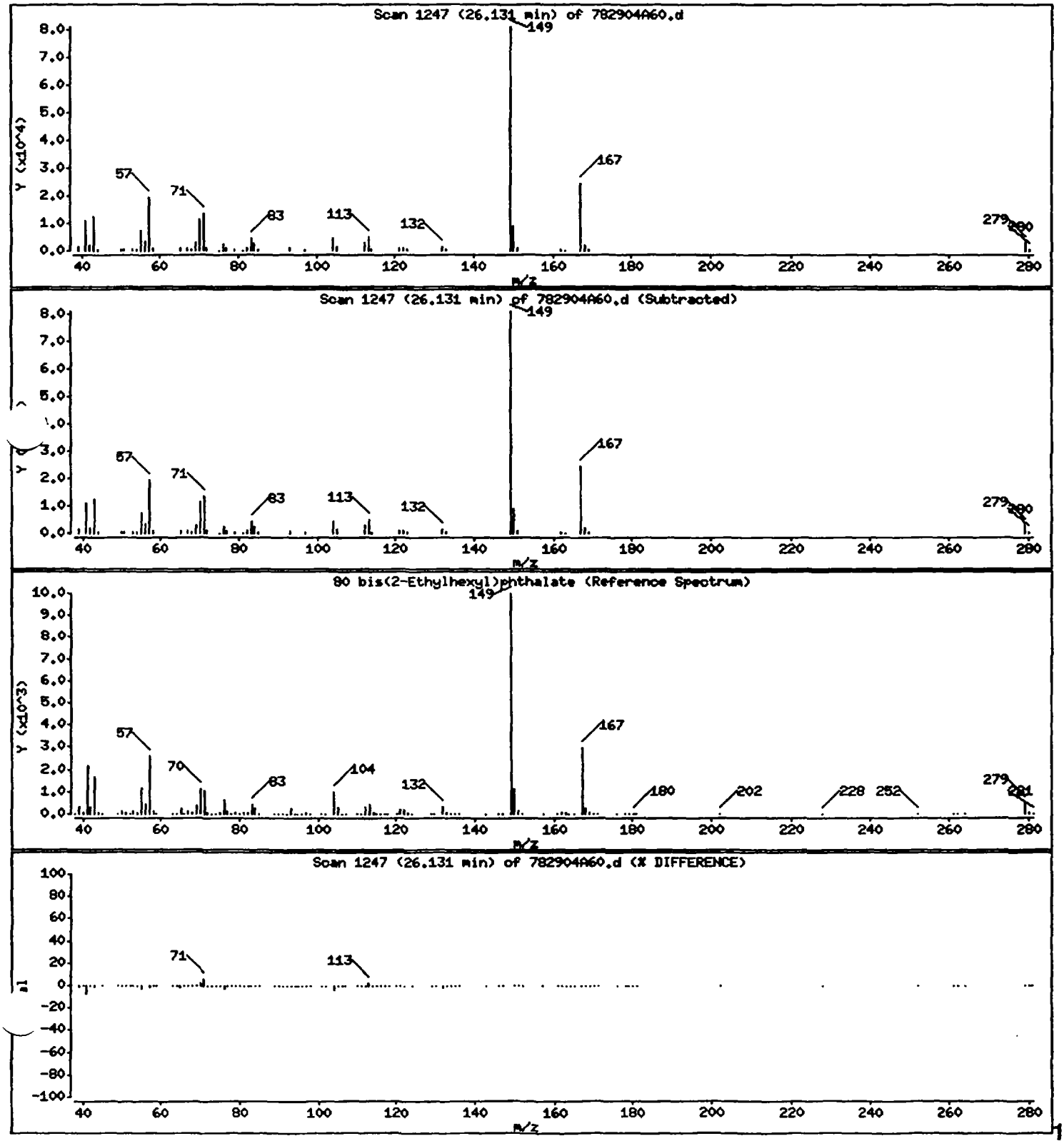
Client ID: ACSCWPWT26 Instrument: 5972hp60.i

Sample Info:

Volume Injected (uL): 1.0 Operator: 917

Column phase: RTX-5MS Column diameter: 0.32

80 bis(2-Ethylhexyl)phthalate Concentration: 18 ug/L



Data File: /chem/5972hp60.i/DF051006A60.b/782904A60.d
Report Date: 07-Oct-2005 14:23

CompuChem

OLC03.0 + REVISIONS QUANT AND RATIO REPORT

Data file : /chem/5972hp60.i/DF051006A60.b/782904A60.d
Lab Smp Id: 782904 Client Smp ID: ACSGWPWT26
Inj Date : 06-OCT-2005 20:45
Operator : 917 Inst ID: 5972hp60.i
Smp Info :
Misc Info :
Comment :
Method : /chem/5972hp60.i/DF051006A60.b/OLC03v5.m
Meth Date : 07-Oct-2005 10:57 henning Quant Type: ISTD
Cal Date : 06-OCT-2005 09:21 Cal File: HG051006A60.d
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: OLC03.sub
Target Version: 3.50

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

3. Semivolatiles Standards Data

a. Initial Calibration Data
(Form VI LCSV-1, LCSV-2, and LCSV-3)

b. Continuing Calibration Data
(Form VII LCSV-1, LCSV-2, and LCSV-3)

a. Initial Calibration Data
(Form VI LCSV-1, LCSV-2, and LCSV-3)

If more than one instrument is used, forms shall be arranged in order by instrument. Multiple initial calibrations from the same instrument shall be in chronological order. Data shall be included for initial calibrations pertaining to samples in the Case, regardless of when they were performed and for which Case.

(1) Reconstructed Ion Chromatograms and quantitation reports for the initial (five-point) calibration. Spectra not required.

(2) EICPs displaying each manual integration.

6LCD

LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

[illegible] CHEM Contract: OLC03-REVS

[illegible] Case No.: Client No.: SDG No.: 7829

[illegible] 5972HP60 Calibration Date(s): 03/10/2005 03/10/2005

Calibration Times: 0902 1224

[illegible] RRF5 = HI050310A60 RRF10 = HK050310A60
[illegible] HJ050310A60 RRF50 = HJ050310A60 RRF80 = HH050310A60

COMPOUND		RRF5	RRF10	RRF20	RRF50	RRF80	$\overline{RRF}$	% RSD
Benzaldehyde		1.375	1.527	1.708	1.380	1.117	1.421	15.3
Phenol	*	1.769	1.783	1.889	1.874	1.855	1.834	3.0*
Bis(2-chloroethyl)ether	*	1.367	1.323	1.362	1.309	1.295	1.331	2.4*
2-Chlorophenol	*	1.380	1.356	1.407	1.392	1.367	1.380	1.5*
2-Methylphenol	*	1.312	1.306	1.380	1.328	1.292	1.324	2.6*
2,2'-oxybis(1-Chloropropane)		2.819	2.715	2.729	2.709	2.667	2.728	2.1
Acetophenone		1.864	1.867	1.897	1.800	1.746	1.835	3.3
4-Methylphenol	*	1.383	1.389	1.479	1.448	1.453	1.430	3.0*
N-Nitroso-di-n-propylamine	*	0.833	0.806	0.858	0.830	0.831	0.832	2.2*
Hexachloroethane	*	0.667	0.647	0.660	0.641	0.623	0.648	2.6*
Nitrobenzene	*	0.448	0.453	0.459	0.451	0.446	0.451	1.1*
Isophorone	*	0.708	0.693	0.683	0.664	0.654	0.680	3.2*
2-Nitrophenol	*	0.198	0.202	0.216	0.209	0.216	0.208	3.9*
2,4-Dimethylphenol	*	0.303	0.303	0.311	0.311	0.327	0.311	3.2*
Bis(2-chloroethoxy)methane	*	0.483	0.483	0.481	0.475	0.476	0.480	0.8*
2,4-Dichlorophenol	*	0.276	0.276	0.304	0.306	0.312	0.295	5.9*
Naphthalene	*	1.042	0.994	1.010	0.980	0.976	1.000	2.7*
4-Chloroaniline		0.407	0.434	0.446	0.432	0.439	0.432	3.4
Hexachlorobutadiene		0.149	0.146	0.142	0.146	0.140	0.145	2.5
Caprolactam		0.116	0.117	0.128	0.122	0.127	0.122	4.5
4-Chloro-3-methylphenol	*	0.293	0.309	0.320	0.311	0.320	0.311	3.6*
2-Methylnaphthalene	*	0.662	0.644	0.656	0.652	0.630	0.649	1.9*
Hexachlorocyclopentadiene		0.088	0.134	0.181	0.250	0.243	0.179	39.0
2,4,6-Trichlorophenol	*	0.339	0.352	0.361	0.367	0.374	0.359	3.8*
2,4,5-Trichlorophenol	*	0.376	0.376	0.392	0.409	0.408	0.392	4.1*
1,1'-Biphenyl		1.403	1.394	1.403	1.366	1.325	1.378	2.4
2-Chloronaphthalene	*	1.108	1.102	1.138	1.111	1.103	1.112	1.3*
2-Nitroaniline		0.377	0.350	0.356	0.386	0.369	0.368	4.0
Dimethylphthalate		1.341	1.336	1.272	1.283	1.237	1.294	3.4
2,6-Dinitrotoluene	*	0.318	0.327	0.334	0.342	0.334	0.331	2.7*
Acenaphthylene	*	1.961	1.962	1.897	1.891	1.749	1.892	4.6*
3-Nitroaniline		0.357	0.346	0.368	0.360	0.331	0.352	4.1
Acenaphthene	*	1.222	1.163	1.151	1.148	1.089	1.155	4.1*
2,4-Dinitrophenol		0.039	0.107	0.174	0.202	0.202	0.145	48.8
4-Nitrophenol		0.088	0.110	0.109	0.108	0.107	0.104	8.9
Dibenzofuran	*	1.708	1.676	1.682	1.679	1.611	1.671	2.2*

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

6LCE

LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Instrument ID: 5972HP60 Calibration Date(s): 03/10/2005 03/10/2005

Calibration Times: 0902 1224

LAB FILE ID: RRF5 = HI050310A60 RRF10 = HK050310A60
RRF20 = HG050310A60 RRF50 = HJ050310A60 RRF80 = HH050310A60

COMPOUND	RRF5	RRF10	RRF20	RRF50	RRF80	$\overline{RRF}$	% RSD
2,4-Dinitrotoluene *	0.427	0.440	0.443	0.444	0.441	0.439	1.6*
Diethylphthalate	1.423	1.378	1.338	1.299	1.302	1.348	3.9
Fluorene *	1.414	1.371	1.372	1.382	1.293	1.366	3.3*
4-Chlorophenyl-phenylether *	0.569	0.561	0.558	0.548	0.556	0.558	1.4*
4-Nitroaniline	0.342	0.342	0.348	0.320	0.319	0.334	4.1
4,6-Dinitro-2-methylphenol	0.131	0.161	0.184	0.191	0.199	0.173	15.9
N-nitrosodiphenylamine (1)	0.677	0.623	0.644	0.605	0.629	0.636	4.3
1,2,4,5 Tetrachlorobenzene	0.546	0.531	0.511	0.538	0.511	0.527	3.0
4-Bromophenyl-phenylether *	0.209	0.203	0.201	0.207	0.201	0.204	1.8*
Hexachlorobenzene *	0.255	0.239	0.240	0.245	0.222	0.240	5.0*
Atrazine	0.247	0.232	0.180	0.202	0.201	0.212	12.6
Pentachlorophenol *	0.063	0.079	0.127	0.132	0.130	0.106	30.8*
Phenanthrene *	1.204	1.157	1.164	1.132	1.069	1.145	4.4*
Anthracene *	1.174	1.158	1.114	1.065	1.110	1.124	3.8*
Di-n-butylphthalate	1.579	1.489	1.502	1.436	1.496	1.500	3.4
Fluoranthene *	1.142	1.102	1.101	1.101	1.031	1.095	3
Pyrene *	1.594	1.516	1.483	1.364	1.451	1.482	5
Butylbenzylphthalate	0.881	0.851	0.900	0.819	0.814	0.853	4.4
3,3'-Dichlorobenzidine	0.409	0.386	0.318	0.267	0.261	0.328	20.6
Benzo(a)anthracene *	1.265	1.223	1.270	1.239	1.193	1.238	2.6*
Chrysene *	1.286	1.258	1.149	1.144	1.119	1.191	6.3*
bis(2-Ethylhexyl)phthalate	1.327	1.276	1.282	1.237	1.161	1.257	5.0
Di-n-octylphthalate	2.902	2.778	2.933	2.611	2.722	2.789	4.7
Benzo(b)fluoranthene *	1.908	1.795	1.603	1.672	1.835	1.763	7.0*
Benzo(k)fluoranthene *	1.737	1.670	1.772	1.706	1.528	1.683	5.6*
Benzo(a)pyrene *	1.412	1.432	1.388	1.389	1.372	1.399	1.7*
Indeno(1,2,3-cd)pyrene *	0.912	1.038	1.229	1.347	1.388	1.183	17.2*
Dibenzo(a,h)anthracene *	0.963	1.051	1.202	1.262	1.291	1.154	12.2*
Benzo(g,h,i)perylene *	1.144	1.157	1.261	1.249	1.275	1.217	5.1*

(1) Cannot be separated from Diphenylamine

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

6LCF

LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Instrument ID: 5972HP60 Calibration Date(s): 03/10/2005 03/10/2005

Calibration Times: 0902 1224

LAB FILE ID: RRF5 = HI050310A60 RRF10 = HK050310A60
RRF20 = HG050310A60 RRF50 = HJ050310A60 RRF80 = HH050310A60

COMPOUND	RRF5	RRF10	RRF20	RRF50	RRF80	$\overline{RRF}$	% RSD
Phenol-d5	1.679	1.719	1.798	1.788	1.752	1.747	2.8
bis-(2-Chloroethyl) ether-d8	1.128	1.083	1.086	1.102	1.062	1.092	2.2
2-Chlorophenol-d4	1.357	1.351	1.399	1.388	1.364	1.372	1.5
4-Methylphenol-d8	1.314	1.359	1.432	1.394	1.417	1.383	3.4
Nitrobenzene-d5	0.177	0.175	0.181	0.179	0.183	0.179	1.8
2-Nitrophenol-d4	0.189	0.186	0.200	0.198	0.202	0.195	3.6
2,4-Dichlorophenol-d3	0.273	0.287	0.306	0.309	0.314	0.298	5.8
4-Chloroaniline-d4	0.389	0.400	0.424	0.418	0.422	0.411	3.7
Dimethylphthalate-d6	1.400	1.382	1.347	1.321	1.299	1.350	3.1
Acenaphthylene-d8	1.926	1.869	1.872	1.822	1.774	1.853	3.1
4-Nitrophenol-d4	0.182	0.233	0.284	0.248	0.280	0.245	16.9
Fluorene-d10	1.114	1.107	1.105	1.089	1.071	1.097	1.6
4,6-Dinitro-2-methylphenol-d2	0.129	0.165	0.189	0.187	0.184	0.171	14.8
nthracene-d10	1.115	1.019	0.974	0.981	0.935	1.005	6.8
yrene-d10	1.423	1.362	1.348	1.268	1.255	1.331	5.2
Benzo(a)pyrene-d12	1.282	1.255	1.276	1.250	1.239	1.260	1.4

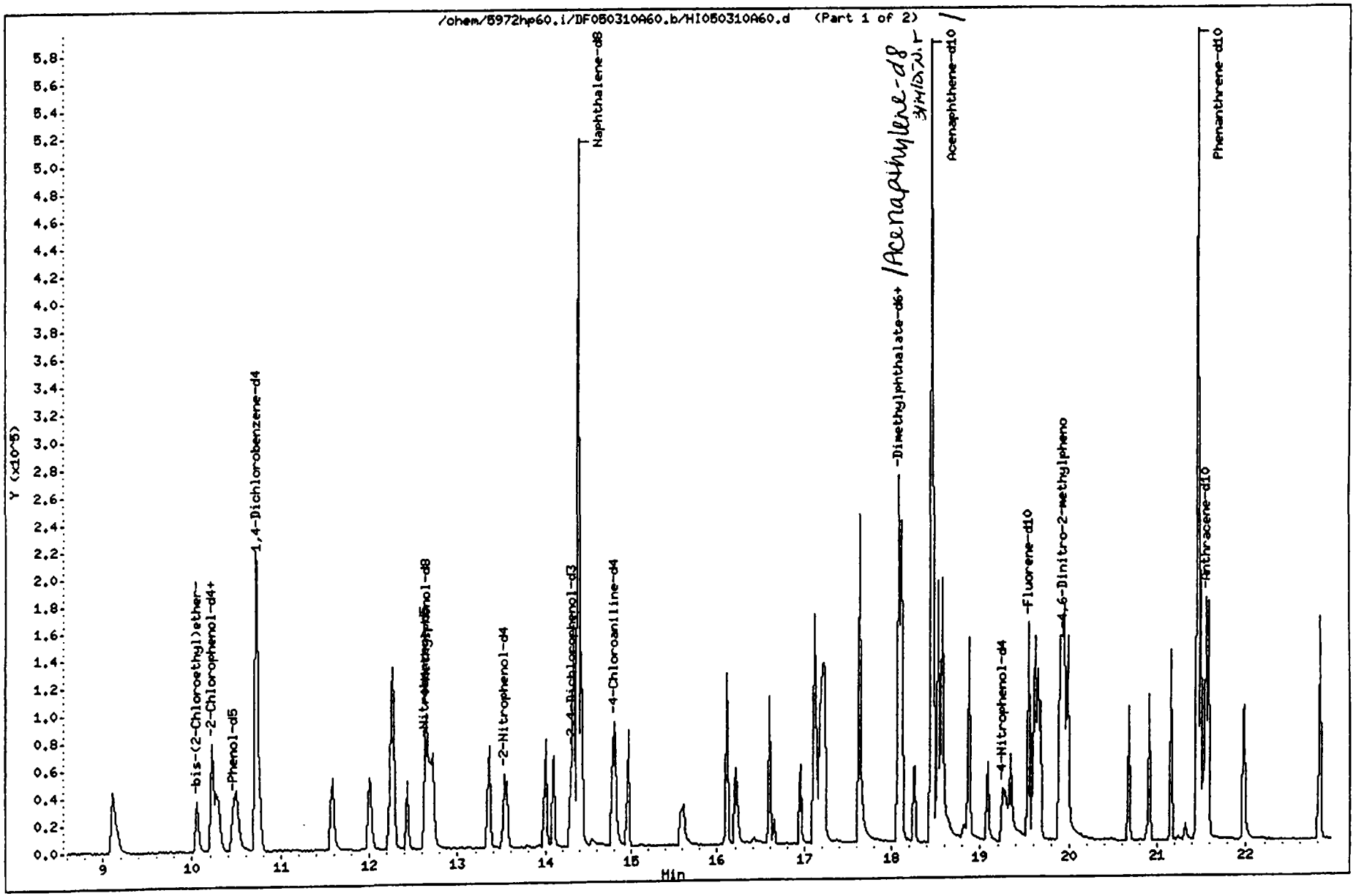
Data File: /chem/5972hp60.i/DF050310A60.b/HI050310A60.d
Date : 10-MAR-2005 10:47
Client ID: SSTD005V0
Sample Info: SSTD005V0:917
Volume Injected (uL): 1.0
Column phase: RTX-5MS

Instrument: 5972hp60.i

Operator: 917
Column diameter: 0.32

COPY
ORIGINAL DOCUMENTS INCLUDED IN CSF- CXX31 3391.4

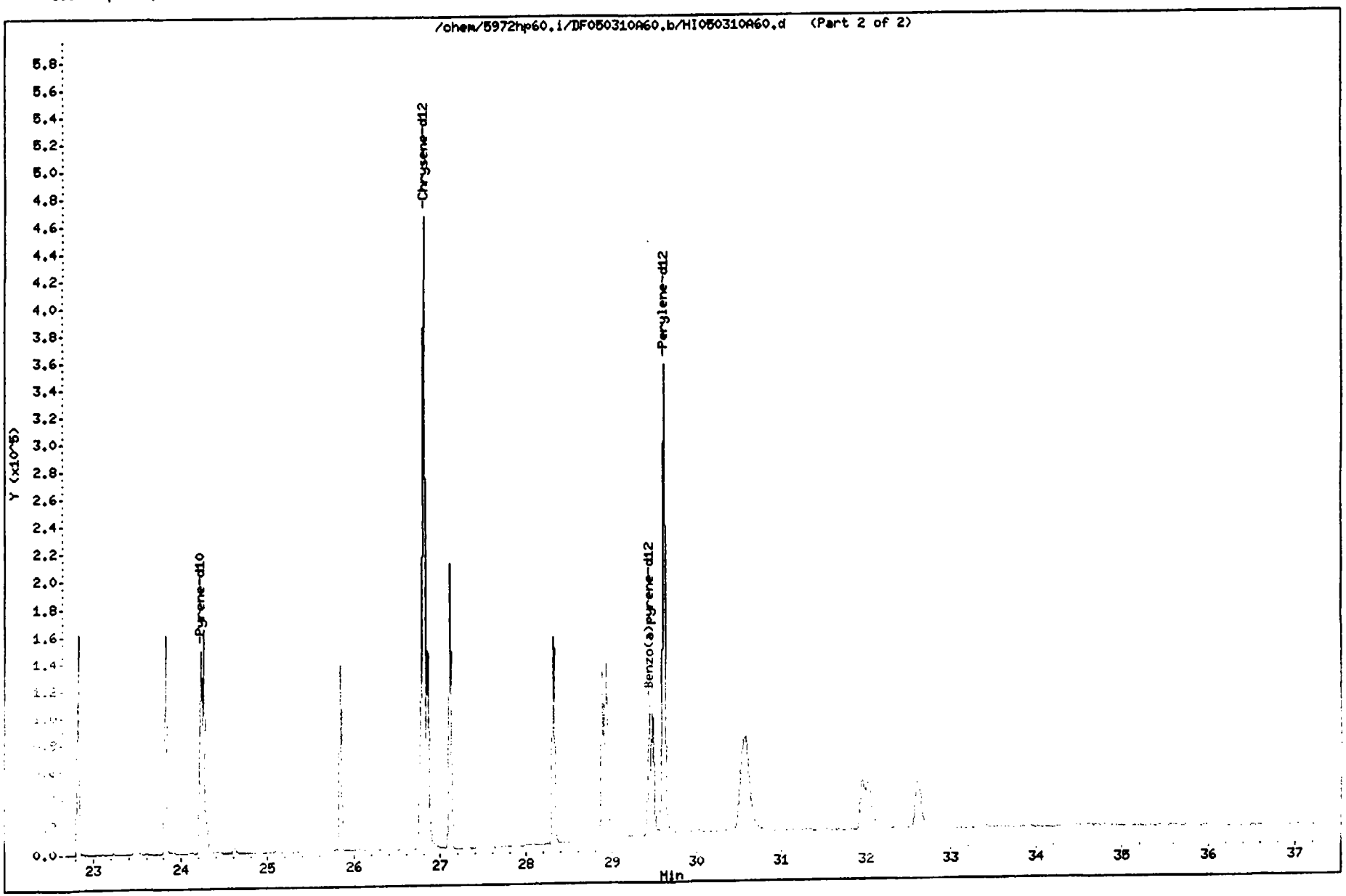
SIGNATURE KM DATE 3/15/05



Data File: /chem/5972hp60.i/DF050310A60.b/HI050310A60.d
Date : 10-MAR-2005 10:47
Client ID: SSTD005V0
Sample Info: SSTD005V0;917
Volume Injected (uL): 1.0
Column phase: RTX-5MS

Instrument: 5972hp60.i

Operator: 917
Column diameter: 0.32



Data File: /chem/5972hp60.i/DF050310A60.b/HI050310A60.d
Report Date: 14-Mar-2005 10:08

CompuChem

OLC03.0 + REVISIONS QUANT AND RATIO REPORT

Data File : /chem/5972hp60.i/DF050310A60.b/HI050310A60.d
Lab Smp Id: SSTD005V0 Client Smp ID: SSTD005V0
Inj Date : 10-MAR-2005 10:47
Operator : 917 Inst ID: 5972hp60.i
Smp Info : SSTD005V0:917
Misc Info :
Comment :
Method : /chem/5972hp60.i/DF050310A60.b/OLC03v5.m
Method Info : 14-Mar-2005 10:08 henning Quant Type: ISTD
Cal Date : 10-MAR-2005 09:02 Cal File: HG050310A60.d
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: OLC03.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/(Vo * Vi) * CpndVariable

Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Local Variable Local Compound Variable

	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)	SIMILARITY
* [illegible]-d4	152	10.732	10.732	(1.000)	112034	20.0000		
* [illegible]	136	14.387	14.387	(1.000)	449039	20.0000		7966
* [illegible]	164	18.447	18.447	(1.000)	247996	20.0000		7915
* [illegible]	188	21.458	21.458	(1.000)	367038	20.0000		8615
* [illegible]	240	26.804	26.804	(1.000)	279686	20.0000		8145
* [illegible]	264	29.612	29.612	(1.000)	216076	20.0000		7465(H)
[illegible]d5	99	10.462	10.462	(0.975)	47031	5.00000	4.8	7310(a)
[illegible]ether-d8	67	10.056	10.056	(0.937)	31604	5.00000	5.2	8823
[illegible]phenol-d4	132	10.225	10.225	(0.953)	38013	5.00000	4.9	8757(a)
[illegible]	113	12.644	12.644	(1.178)	36798	5.00000	4.7	8937(a)
[illegible]	128	12.627	12.627	(0.878)	19901	5.00000	4.9	8432(a)
[illegible]-d4	143	13.524	13.524	(0.940)	21169	5.00000	4.8	8754(a)
[illegible]-d3	165	14.302	14.302	(0.994)	30689	5.00000	4.6	8664(a)
[illegible]	131	14.793	14.793	(1.028)	43702	5.00000	4.7	8742(a)
[illegible]	166	18.075	18.075	(0.980)	86817	5.00000	5.2	9318
[illegible]	160	18.075	18.075	(0.980)	119413	5.00000	5.2	8974
[illegible]	143	19.259	19.259	(1.044)	11292	5.00000	3.7	6974(aM)
[illegible]	176	19.546	19.546	(1.060)	69089	5.00000	5.1	9396
[illegible] methylphenol-d2	200	19.919	19.919	(0.928)	11830	5.00000	3.8	8179(a)

3/14/05

Data File: /chem/5972hp60.i/DF050310A60.b/HI050310A60.d
Report Date: 14-Mar-2005 10:08

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)	SIMILARITY	
$ 20 Anthracene-d10	188	21.543	21.543	(1.004)	102312	5.00000	5.5	9393	
$ 21 Pyrene-d10	212	24.233	24.233	(0.904)	99482	5.00000	5.3	9201	
$ 22 Benzo(a)pyrene-d12	264	29.443	29.443	(1.000)	69269	5.00000	5.1	8360(H)	
23 Benzaldehyde	77	9.108	9.108	(0.849)	38522	5.00000	4.8	7704(a)	
24 Phenol	94	10.495	10.495	(0.978)	49535	5.00000	4.8	8047(a)	
25 bis(2-Chloroethyl)ether	93	10.225	10.225	(0.953)	38300	5.00000	5.1	8769	
26 2-Chlorophenol	128	10.276	10.276	(0.957)	38659	5.00000	5.0	7214	
27 2-Methylphenol	108	12.255	12.255	(1.142)	36759	5.00000	5.0		
28 2,2'-oxybis(1-Chloropropane)	45	12.001	12.001	(1.118)	78962	5.00000	5.2		
30 Acetophenone	105	12.238	12.238	(1.140)	52203	5.00000	5.1	8927	
31 4-Methylphenol	108	12.712	12.712	(1.184)	38725	5.00000	4.8	(a)	
32 N-Nitroso-di-n-propylamine	70	12.424	12.424	(1.158)	23333	5.00000	5.0	7249	
33 Hexachloroethane	117	12.272	12.272	(1.143)	18691	5.00000	5.2	8710	
34 Nitrobenzene	77	12.678	12.678	(0.881)	50287	5.00000	5.0	8018	
35 Isophorone	82	13.355	13.355	(0.928)	79472	5.00000	5.2	7963	
36 2-Nitrophenol	139	13.558	13.558	(0.942)	22270	5.00000	4.8	8632(a)	
37 2,4-Dimethylphenol	107	13.997	13.997	(0.973)	34052	5.00000	4.9	8527(a)	
38 bis(2-Chloroethoxy)methane	93	14.099	14.099	(0.980)	54260	5.00000	5.0	8462	
39 2,4-Dichlorophenol	162	14.319	14.319	(0.995)	30963	5.00000	4.7	(a)	
40 Naphthalene	128	14.420	14.420	(1.002)	117025	5.00000	5.2	8335	
41 4-Chloroaniline	127	14.809	14.809	(1.029)	45685	5.00000	4.7	8487(a)	
42 Hexachlorobutadiene	225	14.962	14.962	(1.040)	16725	5.00000	5.2	9020	
43 Caprolactam	113	15.605	15.605	(1.085)	13071	5.00000	4.8	8301(a)	
44 4-Chloro-3-methylphenol	107	16.214	16.214	(1.127)	32859	5.00000	4.7	8741(a)	
45 2-Methylnaphthalene	142	16.095	16.095	(1.119)	74294	5.00000	5.1		
46 1,2,4,5 Tetrachlorobenzene	216	16.586	16.586	(0.899)	33857	5.00000	5.2	9536	
49 2,4,6-Trichlorophenol	196	16.958	16.958	(0.919)	21035	5.00000	4.7	(a)	
50 2,4,5-Trichlorophenol	196	17.110	17.110	(0.928)	93260	20.0000	19	(a)	
51 1,1'-Biphenyl	154	17.229	17.229	(0.934)	86976	5.00000	5.1	8254	
52 2-Chloronaphthalene	162	17.195	17.195	(0.932)	68687	5.00000	5.0	8339	
53 2-Nitroaniline	65	17.635	17.635	(0.956)	93592	20.0000	21	7947	
54 Dimethylphthalate	163	18.125	18.125	(0.983)	83131	5.00000	5.2	7879	
55 2,6-Dinitrotoluene	165	18.261	18.261	(0.990)	19740	5.00000	4.8	8428(a)	
56 Acenaphthylene	152	18.108	18.108	(0.982)	121577	5.00000	5.2	9075	
57 3-Nitroaniline	138	18.565	18.565	(1.006)	88420	20.0000	20	7863	
58 Acenaphthene	153	18.514	18.514	(1.004)	75790	5.00000	5.3	8706	
59 2,4-Dinitrophenol	184	18.819	18.819	(1.020)	9664	20.0000	5.4	8591(aM)	2
60 4-Nitrophenol	109	19.276	19.276	(1.045)	21836	20.0000	17	(aM)	2
61 Dibenzofuran	168	18.870	18.870	(1.023)	105883	5.00000	5.1	8661	
62 2,4-Dinitrotoluene	165	19.090	19.090	(1.035)	26454	5.00000	4.9	8273(a)	
63 Diethylphthalate	149	19.648	19.648	(1.065)	88224	5.00000	5.3	8559	
64 Fluorene	166	19.614	19.614	(1.063)	87692	5.00000	5.2	0(M)	1
65 4-Chlorophenyl-phenylether	204	19.682	19.682	(1.067)	35283	5.00000	5.1	8894	
66 4-Nitroaniline	138	19.902	19.902	(1.079)	84770	20.0000	20		
67 4,6-Dinitro-2-methylphenol	198	19.936	19.936	(0.929)	48111	20.0000	15	(a)	
68 N-nitrosodiphenylamine	169	19.986	19.986	(0.931)	62134	5.00000	5.3	8319	
69 4-Bromophenyl-phenylether	248	20.680	20.680	(0.964)	19209	5.00000	5.1	8522	

3/14/05 DT

Data File: /chem/5972hp60.i/DF050310A60.b/HI050310A60.d
Report Date: 14-Mar-2005 10:08

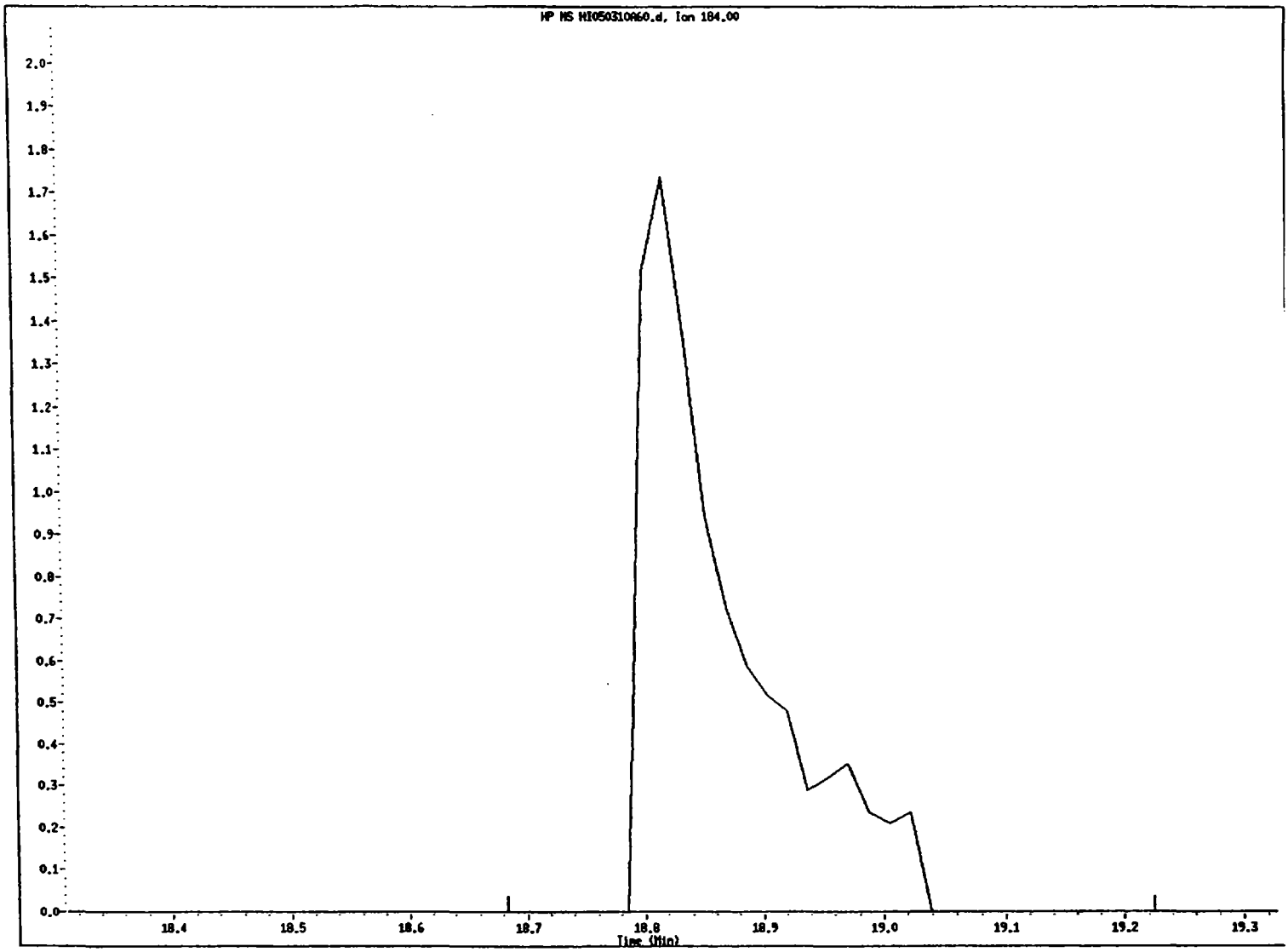
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)	SIMILARITY
70 Hexachlorobenzene	284	20.900	20.900	(0.974)	23403	5.00000	5.3	8607
71 Atrazine	200	21.154	21.154	(0.986)	22639	5.00000	5.8	8482
72 Pentachlorophenol	266	21.323	21.323	(0.994)	5824	5.00000	3.0	8562(a)
73 Phenanthrene	178	21.492	21.492	(1.002)	110471	5.00000	5.3	
74 Anthracene	178	21.577	21.577	(1.006)	107741	5.00000	5.2	
75 Di-n-butylphthalate	149	22.828	22.828	(1.064)	144894	5.00000	5.3	8681
76 Fluoranthene	202	23.827	23.827	(1.110)	104773	5.00000	5.2	
77 Pyrene	202	24.266	24.266	(0.905)	111420	5.00000	5.4	
78 Butylbenzylphthalate	149	25.840	25.840	(0.964)	61576	5.00000	5.2	8746
79 3,3'-Dichlorobenzidine	252	26.855	26.855	(1.002)	28609	5.00000	6.2	8712
80 bis(2-Ethylhexyl)phthalate	149	27.109	27.109	(1.011)	92781	5.00000	5.3	8817
81 Benzo(a)anthracene	228	26.770	26.770	(0.999)	88464	5.00000	5.1	
82 Chrysene	228	26.855	26.855	(1.002)	89893	5.00000	5.4	
83 Di-n-octylphthalate	149	28.327	28.327	(0.962)	156760	5.00000	5.2	8908
84 Benzo(b)fluoranthene	252	28.885	28.885	(0.981)	103090	5.00000	5.4	
85 Benzo(k)fluoranthene	252	28.936	28.936	(0.983)	93807	5.00000	5.2	(H)
86 Benzo(a)pyrene	252	29.494	29.494	(1.002)	76263	5.00000	5.0	8741
87 Indeno(1,2,3-cd)pyrene	276	31.964	31.964	(1.079)	49272	5.00000	3.9	0(aM)
88 Dibenzo(a,h)anthracene	278	32.032	32.032	(1.082)	52024	5.00000	4.2	0(aM)
89 Benzo(g,h,i)perylene	276	32.624	32.624	(1.102)	61781	5.00000	4.7	0(aM)

QC Flag Legend

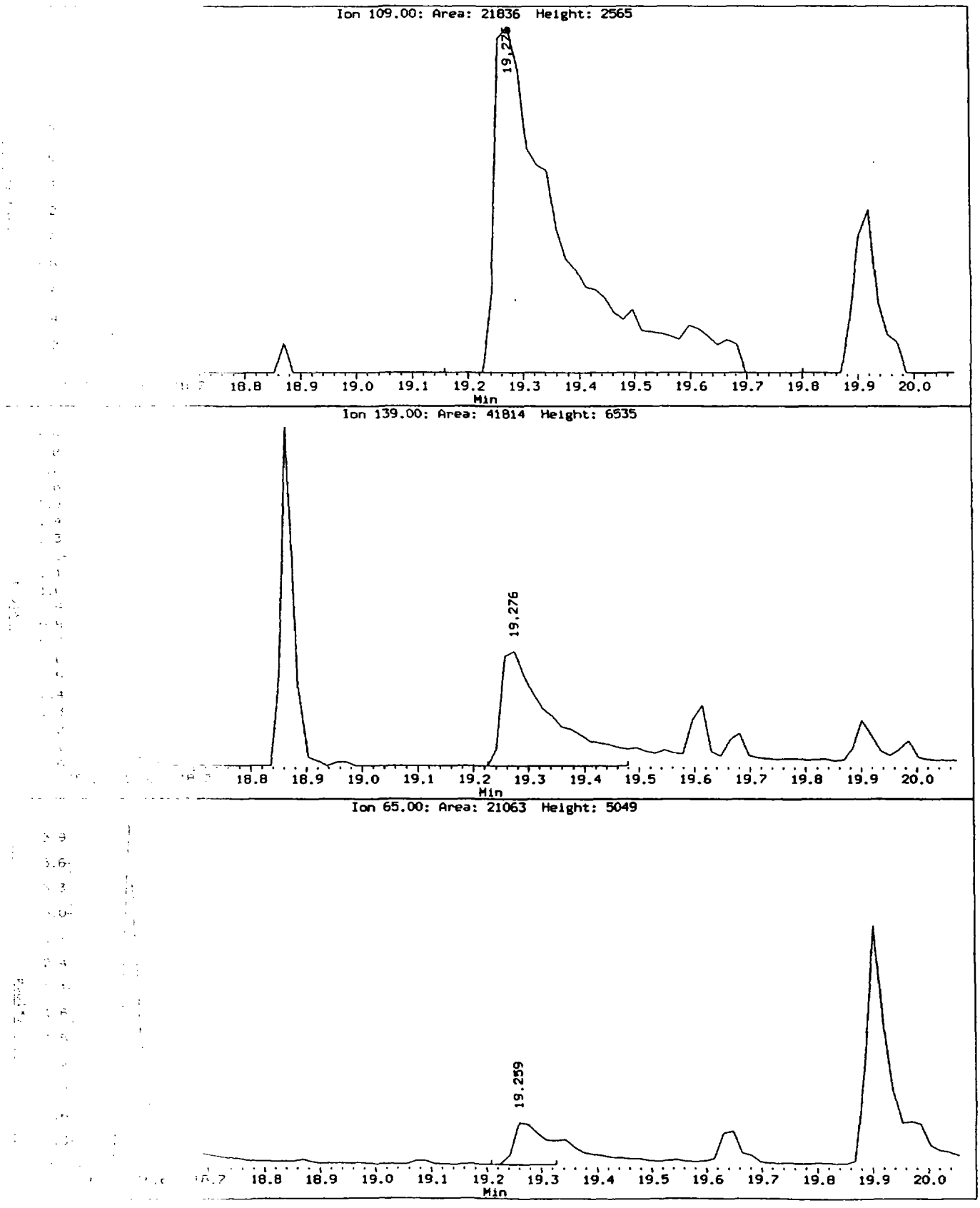
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

3/14/05 DLT

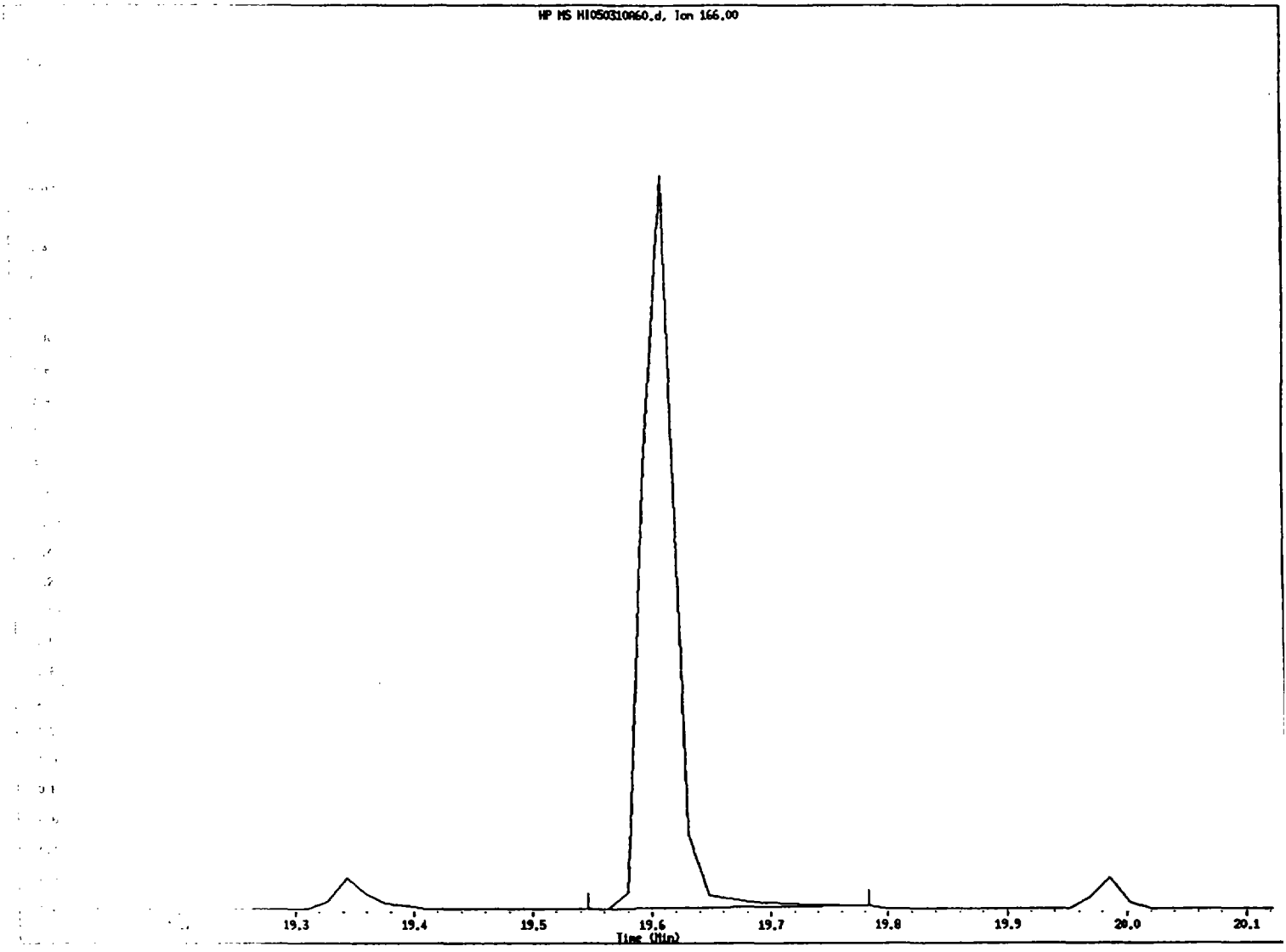
2,4-Dinitrophenol CAS Number 51-28-5 Area = 9664 Manually integrated



File name: /chem/5972hp60.i/DF050310A60.b/HI050310A60.d
Client ID: SSTD005V0
Instrument ID: 5972hp60.i
Injection Date and Time: 10-MAR-2005 10:47
Retention Time: 18.82
Operator ID: 917

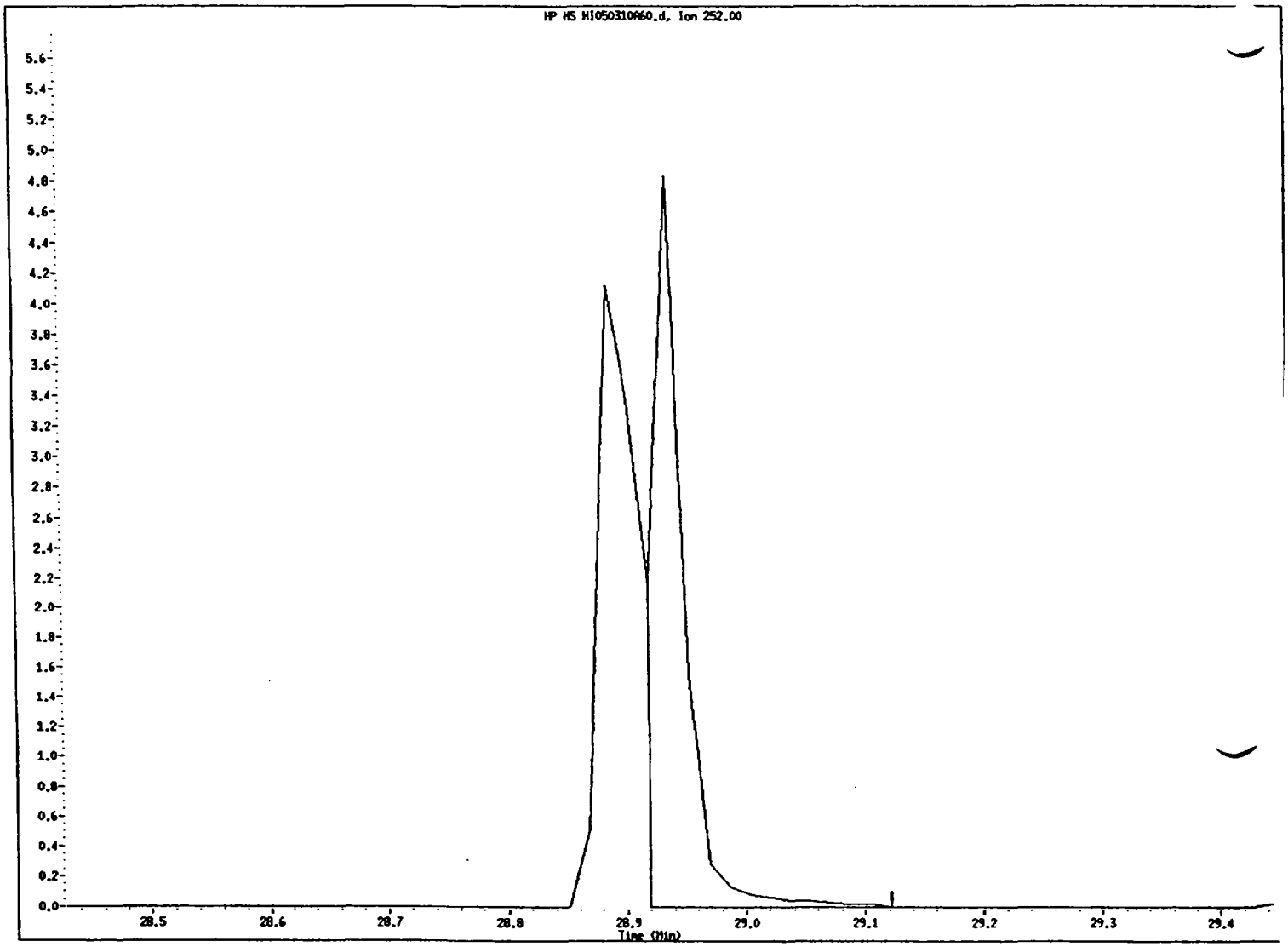

Ion 109.00: Area: 21836 Height: 2565
19.276
18.8 18.9 19.0 19.1 19.2 19.3 19.4 19.5 19.6 19.7 19.8 19.9 20.0
Min
Ion 139.00: Area: 41814 Height: 6535
19.276
18.8 18.9 19.0 19.1 19.2 19.3 19.4 19.5 19.6 19.7 19.8 19.9 20.0
Min
Ion 65.00: Area: 21063 Height: 5049
19.259
18.8 18.9 19.0 19.1 19.2 19.3 19.4 19.5 19.6 19.7 19.8 19.9 20.0
Min

CAS Number 86-73-7 Area = 87692 Manually integrated



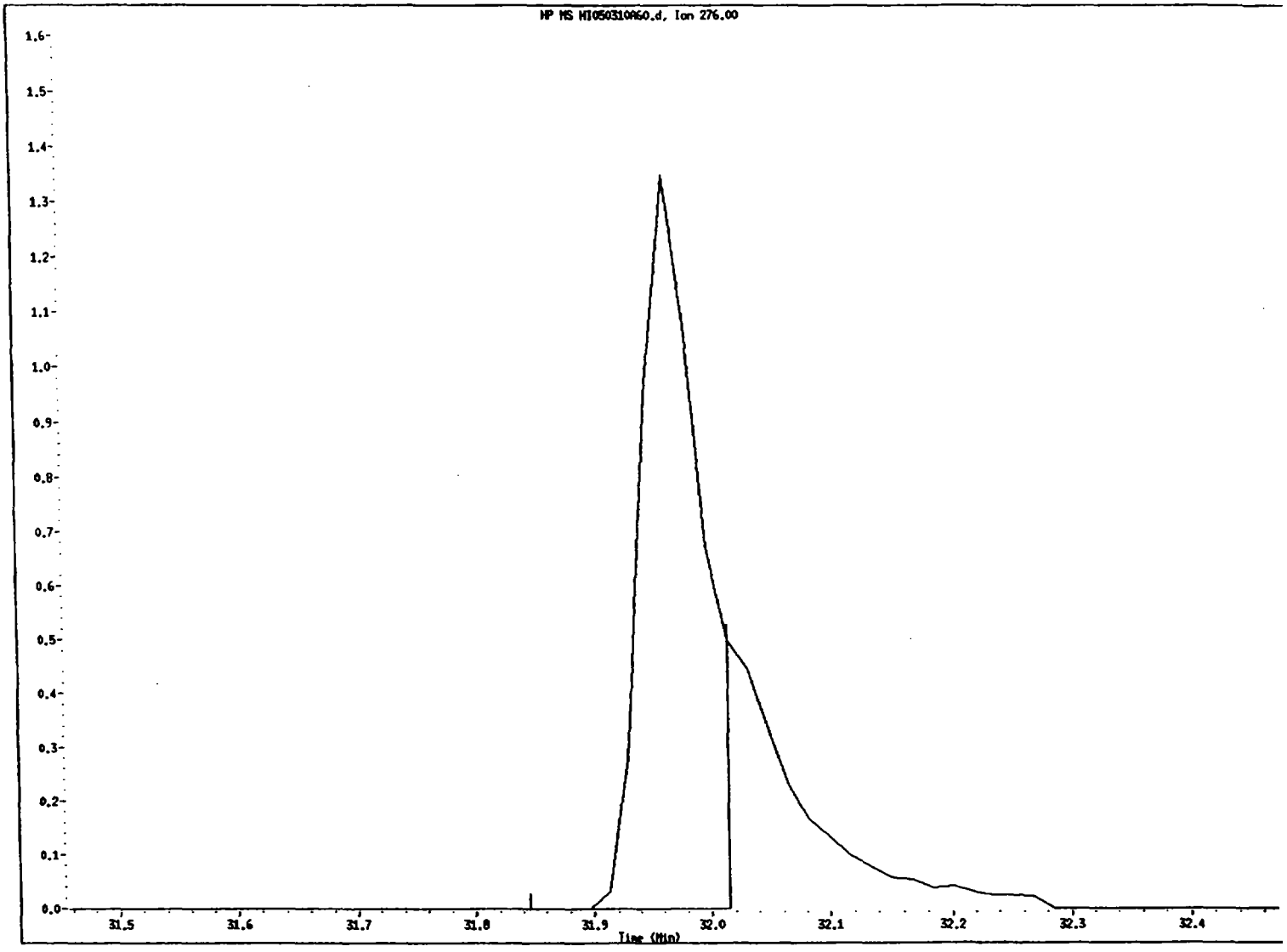
hem/5972hp60.i/DF050310A60.b/HI050310A60.d
D005V0
ID: 5972hp60.i
and Time: 10-MAR-2005 10:47
Time: 19.61
917

Benzo(k)fluoranthene CAS Number 207-08-9 Area = 93807 User selected hit



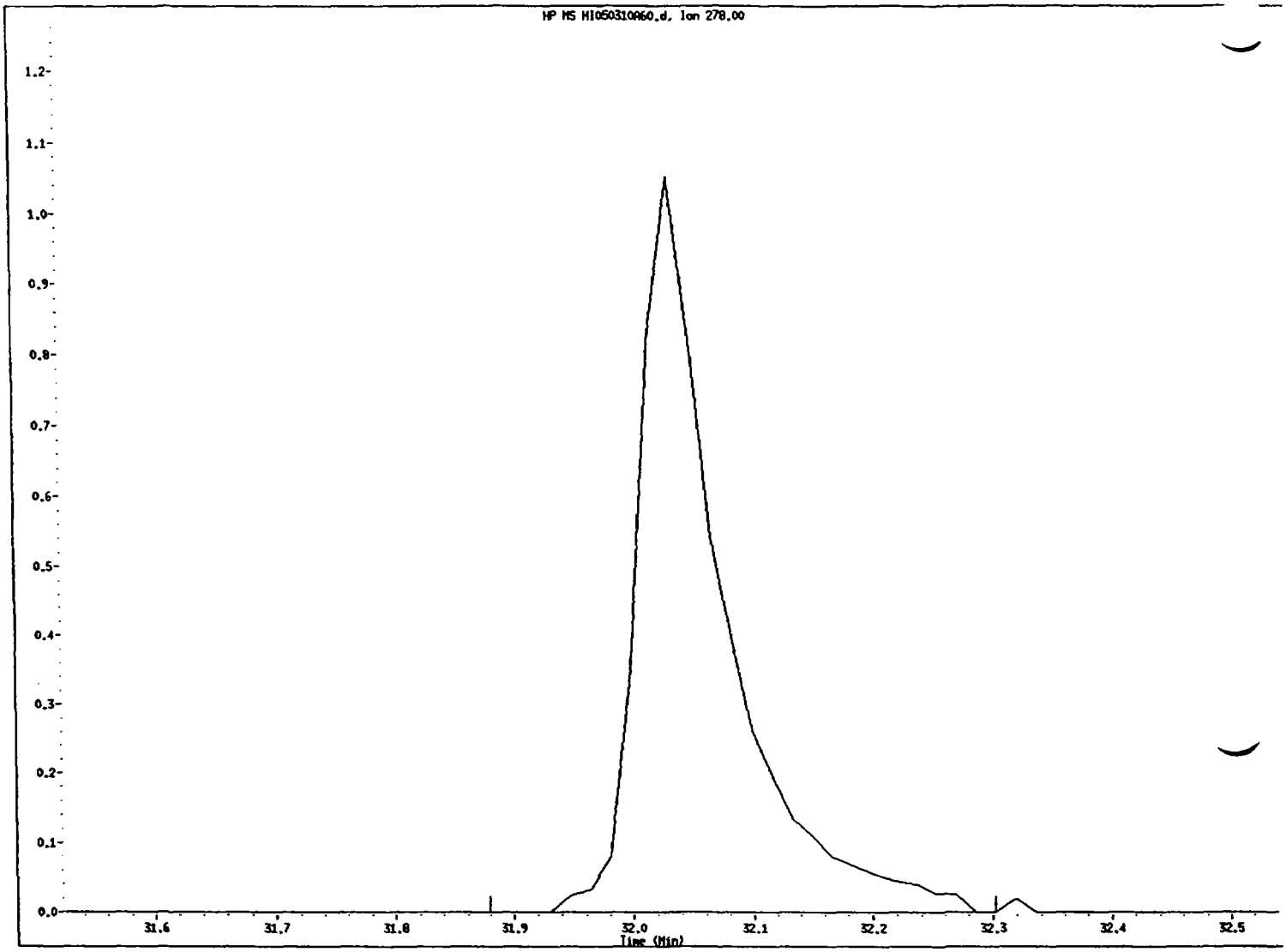
File name: /chem/5972hp60.i/DF050310A60.b/HI050310A60.d
Client ID: SSTD005V0
Instrument ID: 5972hp60.i
Injection Date and Time: 10-MAR-2005 10:47
Retention Time: 28.94
Operator ID: 917

Indeno(1,2,3-cd)pyrene CAS Number 193-39-5 Area = 49272 Manually integrated



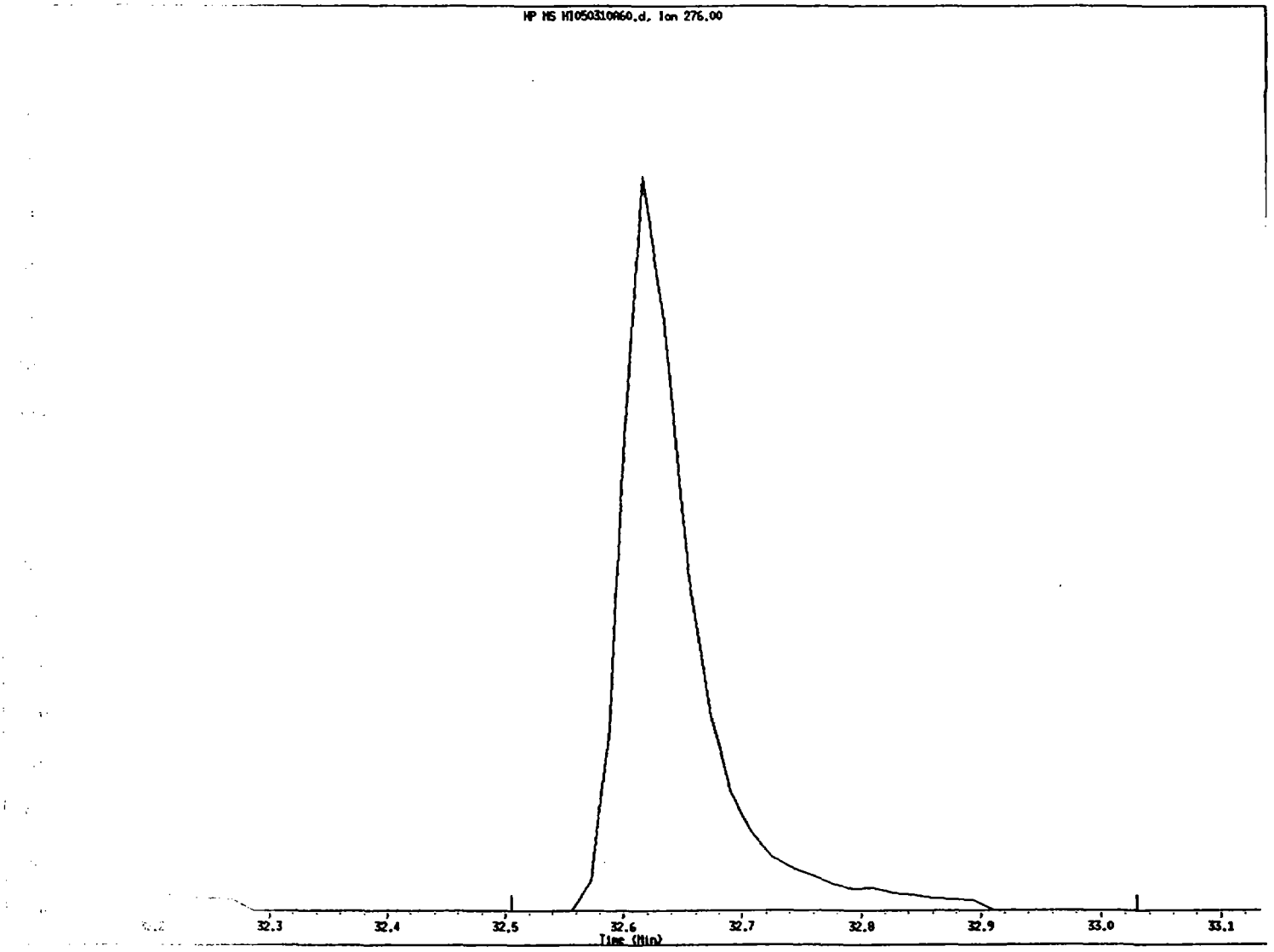
File name: /chem/5972hp60.i/DF050310A60.b/HI050310A60.d
Client ID: SSTD005V0
Instrument ID: 5972hp60.i
Injection Date and Time: 10-MAR-2005 10:47
Retention Time: 31.96
Operator ID: 917

Dibenzo(a,h)anthracene CAS Number 53-70-3 Area = 52024 Manually integrated



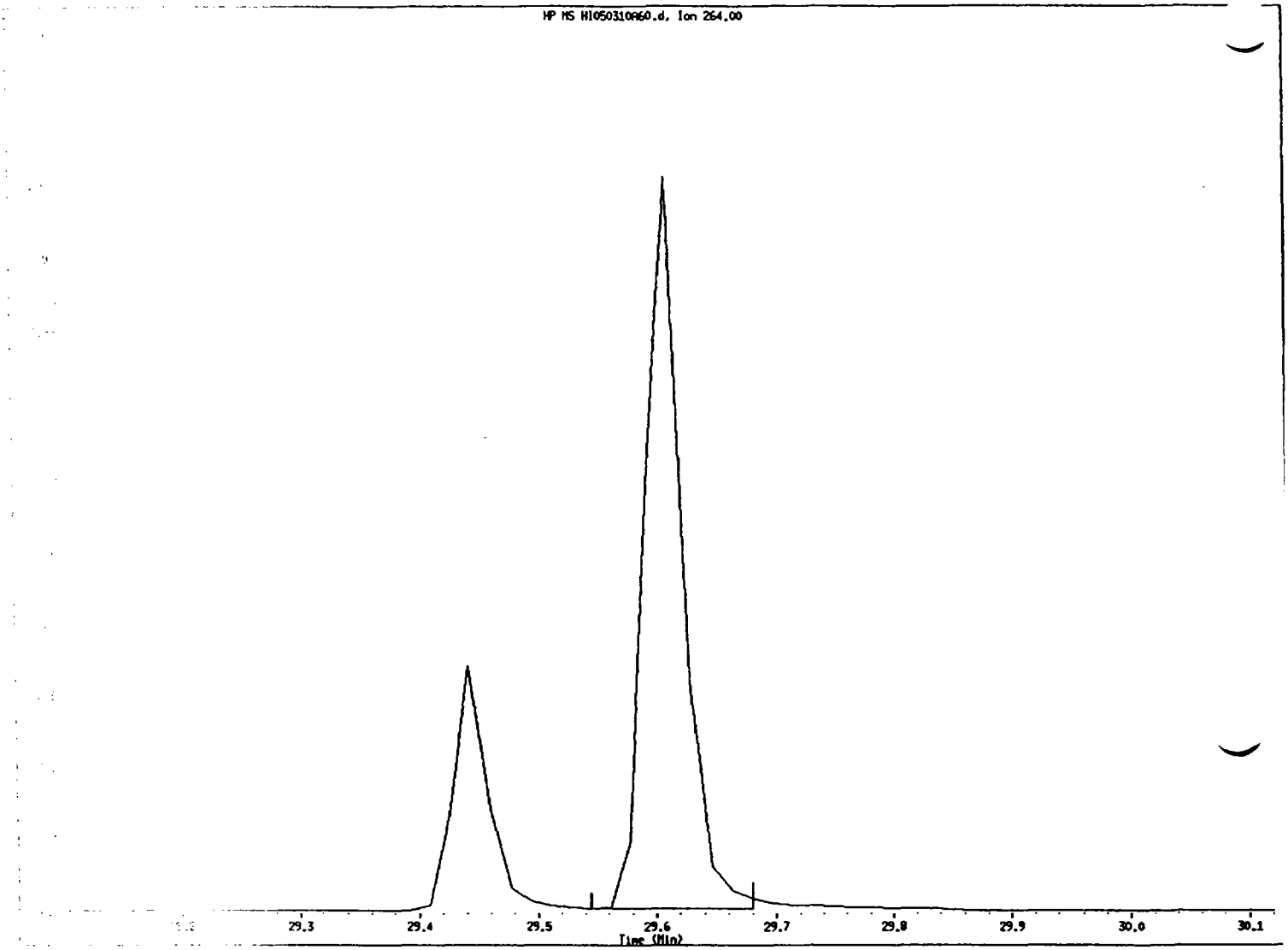
File name: /chem/5972hp60.i/DF050310A60.b/HI050310A60.d
Client ID: SSTD005V0
Instrument ID: 5972hp60.i
Injection Date and Time: 10-MAR-2005 10:47
Retention Time: 32.03
Operator ID: 917

perylene CAS Number 191-24-2 Area = 61781 Manually integrated



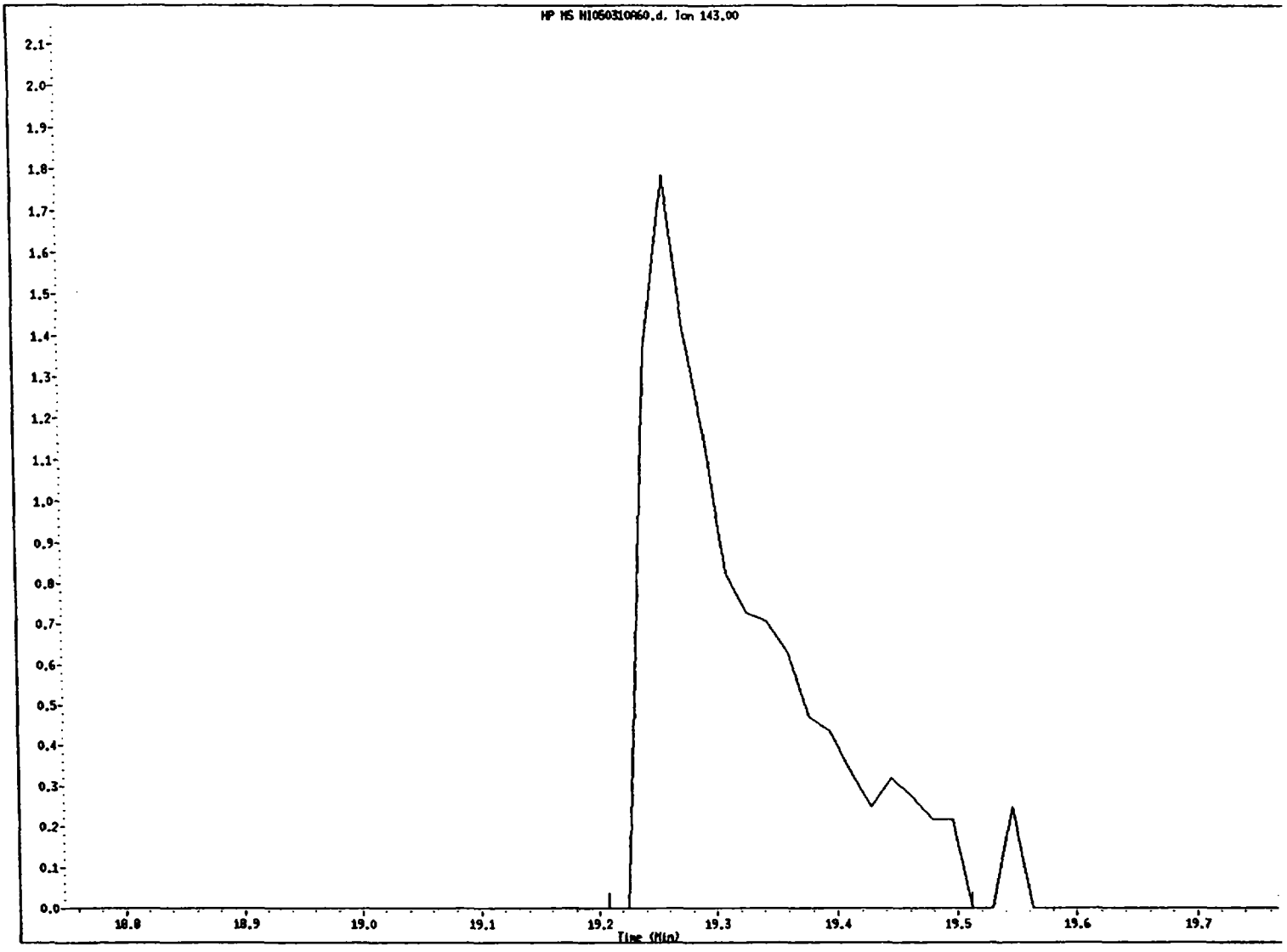
hem/5972hp60.i/DF050310A60.b/HI050310A60.d
ESTD005V0
ID: 5972hp60.i
and Time: 10-MAR-2005 10:47
Time: 32.62
ID: 917

[illegible]12 CAS Number 1520-96-3 Area = 216076 User selected hit



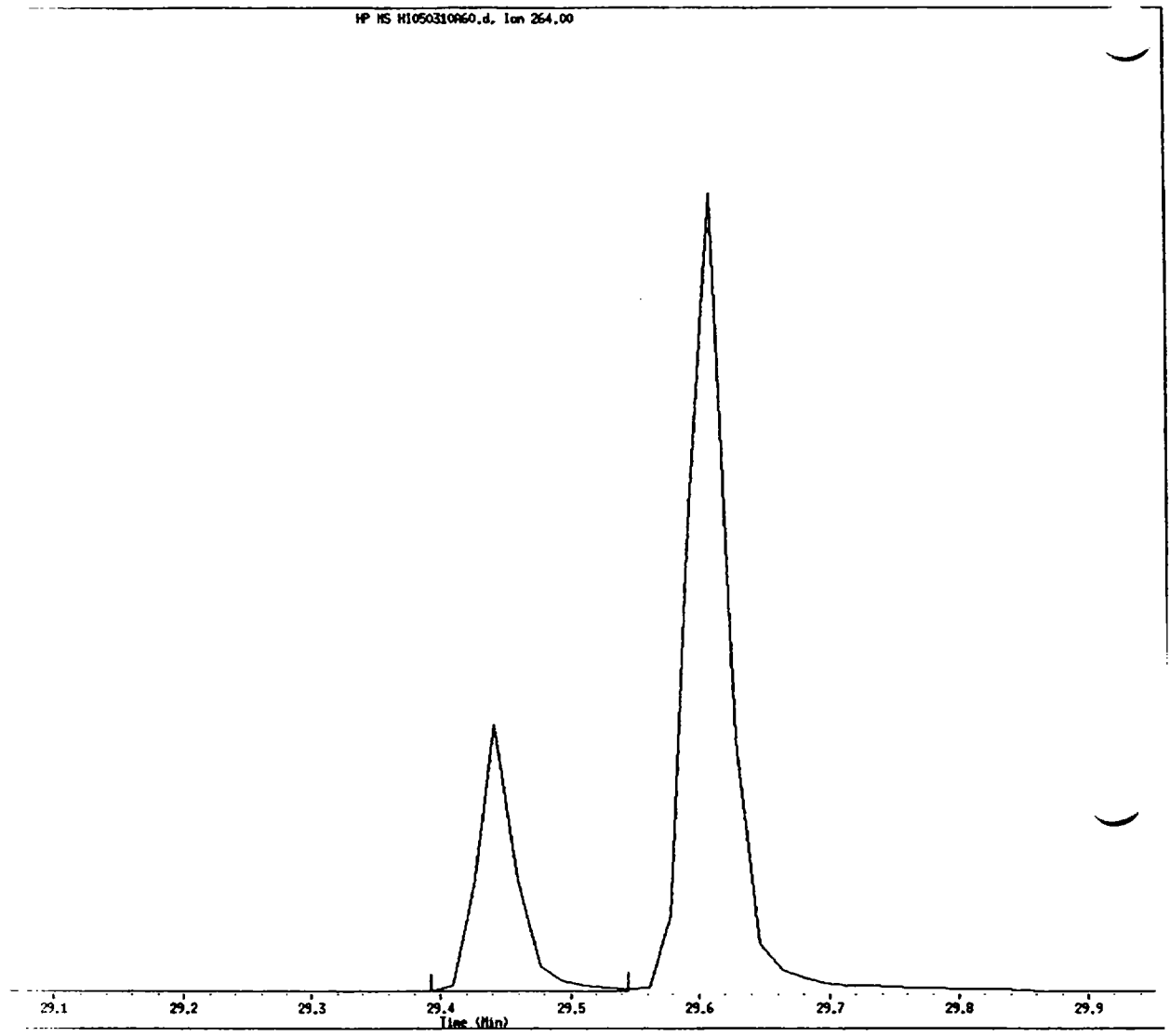
[illegible]chem/5972hp60.i/DF050310A60.b/HI050310A60.d
[illegible]SCD005V0
[illegible] ID: 5972hp60.i
[illegible]ate and Time: 10-MAR-2005 10:47
[illegible]ention Time: 29.61
Operator ID: 917

4-Nitrophenol-d4 CAS Number 93951-79-2 Area = 11292 Manually integrated



File name: /chem/5972hp60.i/DF050310A60.b/HI050310A60.d
Client ID: SSTD005V0
Instrument ID: 5972hp60.i
Injection Date and Time: 10-MAR-2005 10:47
Retention Time: 19.26
Operator ID: 917

Pyrene-d12 CAS Number 63466-71-7 Area = 69269 User selected hit



hem/5972hp60.i/DF050310A60.b/HI050310A60.d
STD005V0
5972hp60.i
and Time: 10-MAR-2005 10:47
Time: 29.44
917

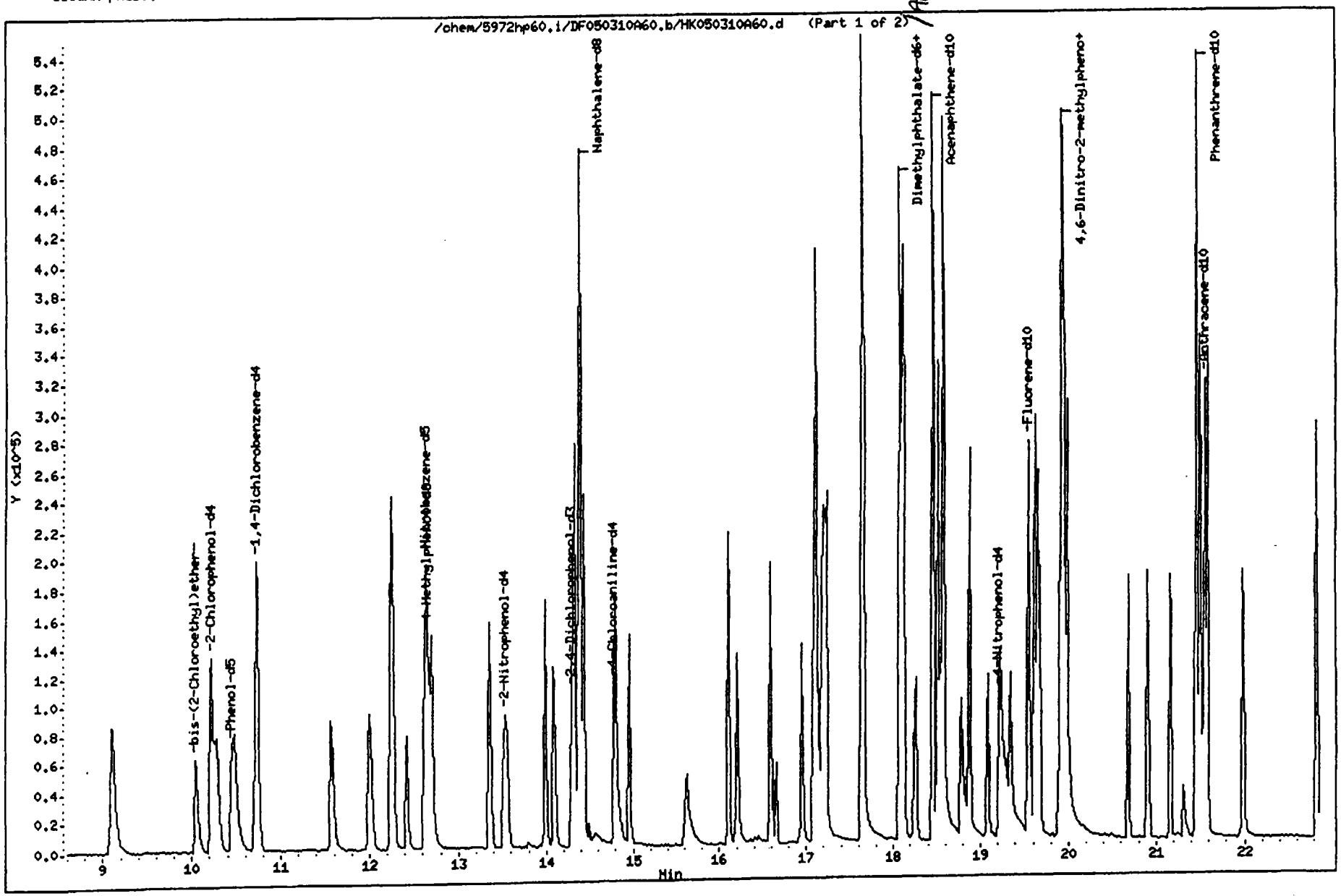
Data File: /chem/5972hp60.i/DF050310A60.b/HK050310A60.d
Date : 10-MAR-2005 12:24
Client ID: SSTD010V0
Sample Info: SSTD010V0:917
Volume Injected (uL): 1.0
Column phase: RTX-5MS

Instrument: 5972hp60.i

Operator: 917
Column diameter: 0.32

Acenaphthene-d10 3/10/05 13:4

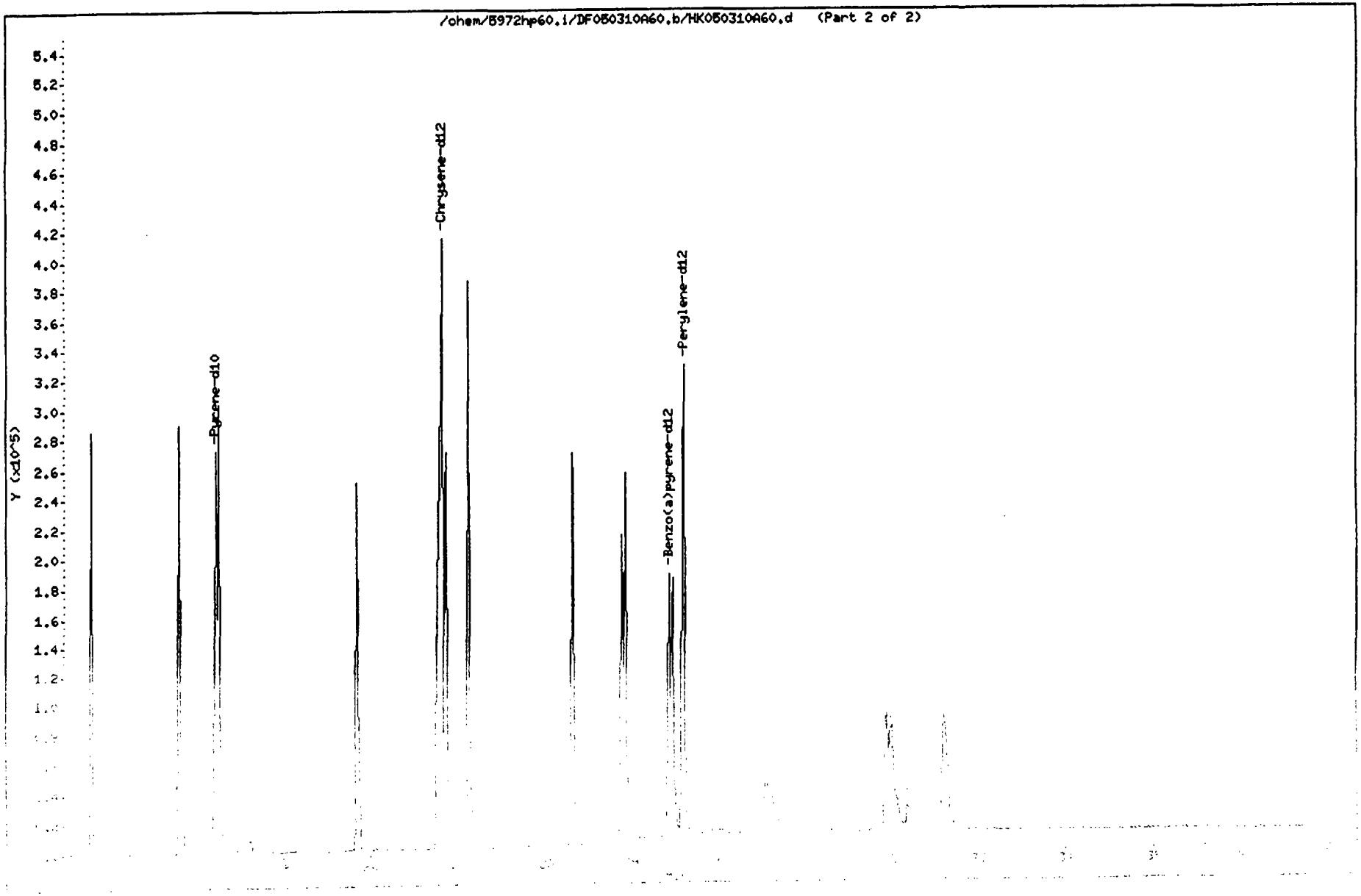
COPY CXX31
ORIGINAL DOCUMENTS INCLUDED IN CSF- 33914
SIGNATURE [signature] DATE 3/15/05



Data File: /chem/5972hp60.i/DF050310A60.b/HK050310A60.d
Date : 10-MAR-2005 12:24
Client ID: SSTD010V0
Sample Info: SSTD010V0:917
Volume Injected (uL): 1.0
Column phase: RTX-5MS

Instrument: 5972hp60.i

Operator: 917
Column diameter: 0.32



...em/5972hp60.i/DF050310A60.b/HK050310A60.d
...14 Mar-2005 09:43

CompuChem

OLC03.0 + REVISIONS QUANT AND RATIO REPORT

...hem/5972hp60.i/DF050310A60.b/HK050310A60.d
...SSTD010V0 Client Smp ID: SSTD010V0
...-MAR-2005 12:24
...917 Inst ID: 5972hp60.i
...STD010V0:917
...chem/5972hp60.i/DF050310A60.b/OLC03v5.m
...4 Mar-2005 09:41 henning Quant Type: ISTD
...-MAR-2005 09:02 Cal File: HG050310A60.d
... Calibration Sample, Level: 2
...0000
...RTE Compound Sublist: OLC03.sub
... 3.50

...Formula: Amt * DF * Vt/(Vo * Vi) * CpndVariable
Vt 1000.00000 Volume of final extract (uL)
Vo 1000.00000 Volume of sample extracted (mL)
Vi 1.00000 Volume injected (uL)

... Local Compound Variable

	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)	SIMILARITY
...-d4	152	10.720	10.720	(1.000)	101296	20.0000		
...	136	14.391	14.391	(1.000)	406892	20.0000		7856
...	164	18.451	18.451	(1.000)	223849	20.0000		7928
...	188	21.462	21.462	(1.000)	338610	20.0000		8643
...	240	26.808	26.808	(1.000)	257747	20.0000		8199
...	264	29.617	29.617	(1.000)	200776	20.0000		7479(H)
...	99	10.449	10.449	(0.975)	87052	10.0000	9.8	7272
...ether-d8	67	10.043	10.043	(0.937)	54831	10.0000	9.9	9063
...	132	10.229	10.229	(0.954)	68429	10.0000	9.8	8679
...	113	12.648	12.648	(1.180)	68823	10.0000	9.8	9083
...	128	12.631	12.631	(0.878)	35547	10.0000	9.7	8576
...	143	13.528	13.528	(0.940)	37855	10.0000	9.5	8690
...-d3	165	14.289	14.289	(0.993)	58377	10.0000	9.6	8277
...	131	14.780	14.780	(1.027)	81441	10.0000	9.7	9204
...-d6	166	18.079	18.079	(0.980)	154711	10.0000	10	9314
...-d6	160	18.079	18.079	(0.980)	209181	10.0000	10	8780
...	143	19.212	19.212	(1.041)	26130	10.0000	9.5	7209(M)
...	176	19.551	19.551	(1.060)	123941	10.0000	10	9375
...henol-d2	200	19.923	19.923	(0.928)	27868	10.0000	9.6	7735

2

3/14/05 SH

Data File: /chem/5972hp60.i/DF050310A60.b/HK050310A60.d
Report Date: 14-Mar-2005 09:43

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)	SIMILARITY	
$ 20 Anthracene-d10	188	21.547	21.547	(1.004)	172573	10.0000	10	9328(H)	
$ 21 Pyrene-d10	212	24.237	24.237	(0.904)	175539	10.0000	10	9197	
$ 22 Benzo(a)pyrene-d12	264	29.448	29.448	(1.000)	125938	10.0000	10	8360(H)	
23 Benzaldehyde	77	9.096	9.096	(0.848)	77358	10.0000	11	7778	
24 Phenol	94	10.483	10.483	(0.978)	90291	10.0000	9.7	7588	
25 bis(2-Chloroethyl)ether	93	10.212	10.212	(0.953)	66983	10.0000	9.9	8996	
26 2-Chlorophenol	128	10.280	10.280	(0.959)	68675	10.0000	9.8	0(M)	1
27 2-Methylphenol	108	12.242	12.242	(1.142)	66150	10.0000	9.9		
28 2,2'-oxybis(1-Chloropropane)	45	12.005	12.005	(1.120)	137514	10.0000	10		
30 Acetophenone	105	12.242	12.242	(1.142)	94572	10.0000	10	8994	
31 4-Methylphenol	108	12.699	12.699	(1.185)	70331	10.0000	9.7		
32 N-Nitroso-di-n-propylamine	70	12.428	12.428	(1.159)	40825	10.0000	9.7	7139	
33 Hexachloroethane	117	12.276	12.276	(1.145)	32771	10.0000	10	8639	
34 Nitrobenzene	77	12.682	12.682	(0.881)	92136	10.0000	10	7985	
35 Isophorone	82	13.359	13.359	(0.928)	141051	10.0000	10	7690	
36 2-Nitrophenol	139	13.562	13.562	(0.942)	41196	10.0000	9.7	8685	
37 2,4-Dimethylphenol	107	13.985	13.985	(0.972)	61703	10.0000	9.7	8864	
38 bis(2-Chloroethoxy)methane	93	14.086	14.086	(0.979)	98198	10.0000	10	8571	
39 2,4-Dichlorophenol	162	14.323	14.323	(0.995)	56204	10.0000	9.4		
40 Naphthalene	128	14.425	14.425	(1.002)	202165	10.0000	9.9	8412	
41 4-Chloroaniline	127	14.814	14.814	(1.029)	88245	10.0000	10	8339	
42 Hexachlorobutadiene	225	14.966	14.966	(1.040)	29775	10.0000	10	8994	
43 Caprolactam	113	15.626	15.626	(1.086)	23820	10.0000	9.6	8412	
44 4-Chloro-3-methylphenol	107	16.201	16.201	(1.126)	62966	10.0000	10	9024	
45 2-Methylnaphthalene	142	16.099	16.099	(1.119)	130947	10.0000	9.9		
46 1,2,4,5 Tetrachlorobenzene	216	16.590	16.590	(0.899)	59442	10.0000	10	9624	
47 Hexachlorocyclopentadiene	237	16.658	16.658	(0.903)	15046	10.0000	7.5	8187	
49 2,4,6-Trichlorophenol	196	16.945	16.945	(0.918)	39408	10.0000	9.8		
50 2,4,5-Trichlorophenol	196	17.098	17.098	(0.927)	210534	50.0000	48		
51 1,1'-Biphenyl	154	17.233	17.233	(0.934)	155985	10.0000	10	8203	
52 2-Chloronaphthalene	162	17.199	17.199	(0.932)	123389	10.0000	9.9	8385	
53 2-Nitroaniline	65	17.639	17.639	(0.956)	195978	50.0000	48	8235(M)	2
54 Dimethylphthalate	163	18.130	18.130	(0.983)	149578	10.0000	10	8251	
55 2,6-Dinitrotoluene	165	18.265	18.265	(0.990)	36561	10.0000	9.9	8376	
56 Acenaphthylene	152	18.113	18.113	(0.982)	219554	10.0000	10	9125	
57 3-Nitroaniline	138	18.569	18.569	(1.006)	193449	50.0000	49	8086(M)	2
58 Acenaphthene	153	18.519	18.519	(1.004)	130186	10.0000	10	8797	
59 2,4-Dinitrophenol	184	18.789	18.789	(1.018)	60073	50.0000	37	8918	
60 4-Nitrophenol	109	19.229	19.229	(1.042)	61327	50.0000	53	(M)	2
61 Dibenzofuran	168	18.874	18.874	(1.023)	187629	10.0000	10	8593	
62 2,4-Dinitrotoluene	165	19.094	19.094	(1.035)	49230	10.0000	10	7707	
63 Diethylphthalate	149	19.652	19.652	(1.065)	154265	10.0000	10	8719	
64 Fluorene	166	19.618	19.618	(1.063)	153419	10.0000	10	0(M)	1
65 4-Chlorophenyl-phenylether	204	19.686	19.686	(1.067)	62749	10.0000	10	8621	
66 4-Nitroaniline	138	19.923	19.923	(1.080)	191446	50.0000	51	(M)	2
67 4,6-Dinitro-2-methylphenol	198	19.940	19.940	(0.929)	136162	50.0000	46		
68 N-nitrosodiphenylamine	169	19.991	19.991	(0.931)	105519	10.0000	9.8	7784	

3/14/05 DH

Data File: /chem/5972hp60.i/DF050310A60.b/HK050310A60.d
Report Date: 14-Mar-2005 09:43

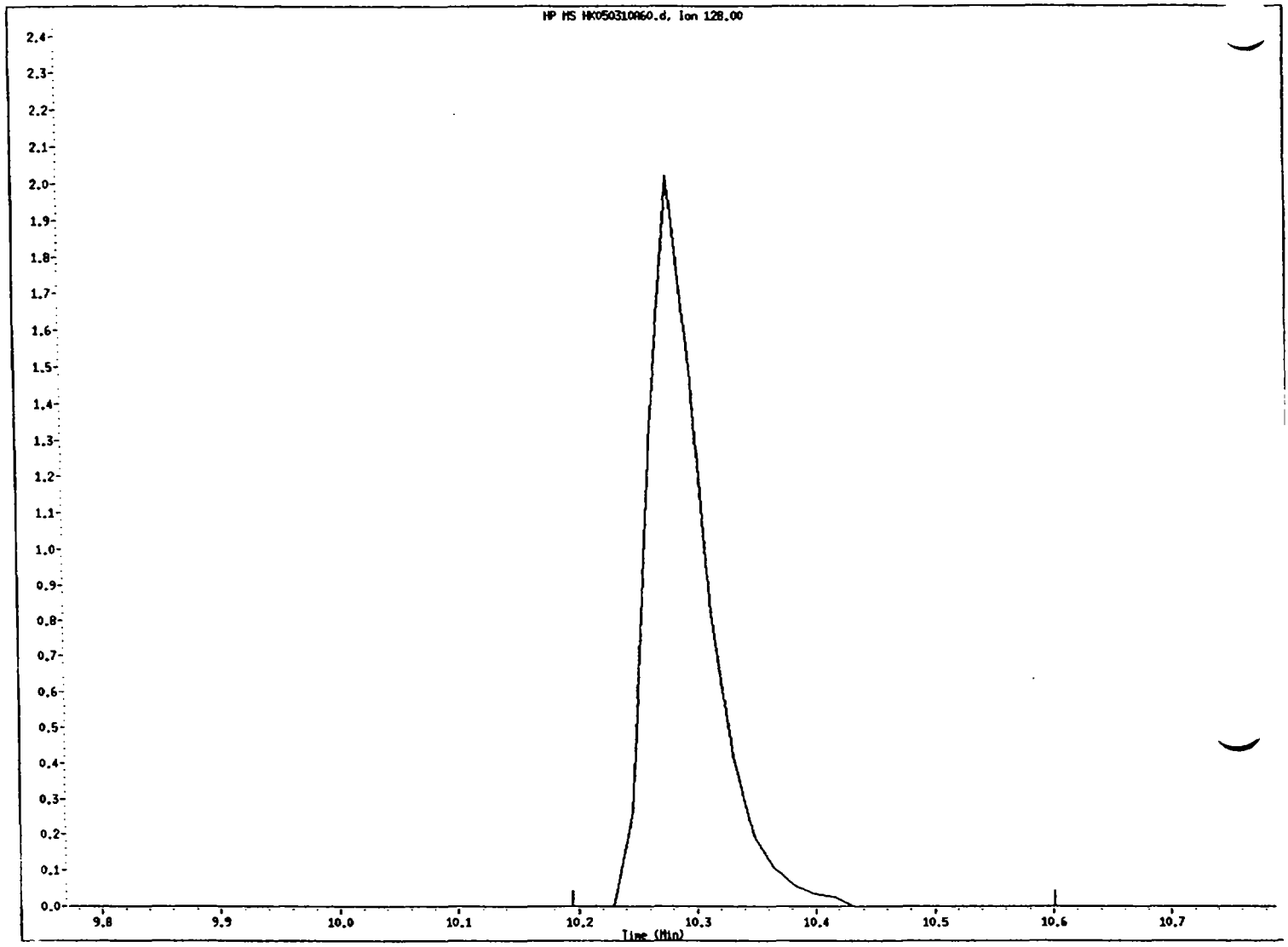
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)	SIMILARITY	
69 4-Bromophenyl-phenylether	248	20.684	20.684	(0.964)	34368	10.0000	9.9	8499	
70 Hexachlorobenzene	284	20.904	20.904	(0.974)	40400	10.0000	9.9	8448	
71 Atrazine	200	21.175	21.175	(0.987)	39218	10.0000	11	7447	
72 Pentachlorophenol	266	21.327	21.327	(0.994)	13453	10.0000	7.5	8849	
73 Phenanthrene	178	21.496	21.496	(1.002)	195960	10.0000	10		
74 Anthracene	178	21.581	21.581	(1.006)	196111	10.0000	10		
75 Di-n-butylphthalate	149	22.833	22.833	(1.064)	252043	10.0000	9.9	8712	
76 Fluoranthene	202	23.831	23.831	(1.110)	186652	10.0000	10		
77 Pyrene	202	24.271	24.271	(0.905)	195370	10.0000	10		
78 Butylbenzylphthalate	149	25.844	25.844	(0.964)	109619	10.0000	10	8664	
79 3,3'-Dichlorobenzidine	252	26.859	26.859	(1.002)	49684	10.0000	12	8828	
80 bis(2-Ethylhexyl)phthalate	149	27.113	27.113	(1.011)	164455	10.0000	10	8866	
81 Benzo(a)anthracene	228	26.775	26.775	(0.999)	157571	10.0000	9.9		
82 Chrysene	228	26.859	26.859	(1.002)	162102	10.0000	11		
83 Di-n-octylphthalate	149	28.331	28.331	(0.962)	278840	10.0000	10	8905	
84 Benzo(b)fluoranthene	252	28.889	28.889	(0.981)	180185	10.0000	10		
85 Benzo(k)fluoranthene	252	28.940	28.940	(0.983)	167615	10.0000	9.9	(H)	
86 Benzo(a)pyrene	252	29.498	29.498	(1.002)	143779	10.0000	10	8628	
87 Indeno(1,2,3-cd)pyrene	276	31.968	31.968	(1.079)	104228	10.0000	8.8	0(M)	/
88 Dibenzo(a,h)anthracene	278	32.036	32.036	(1.082)	105512	10.0000	9.1	0(M)	/
89 Benzo(g,h,i)perylene	276	32.628	32.628	(1.102)	116190	10.0000	9.5	0(M)	|

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

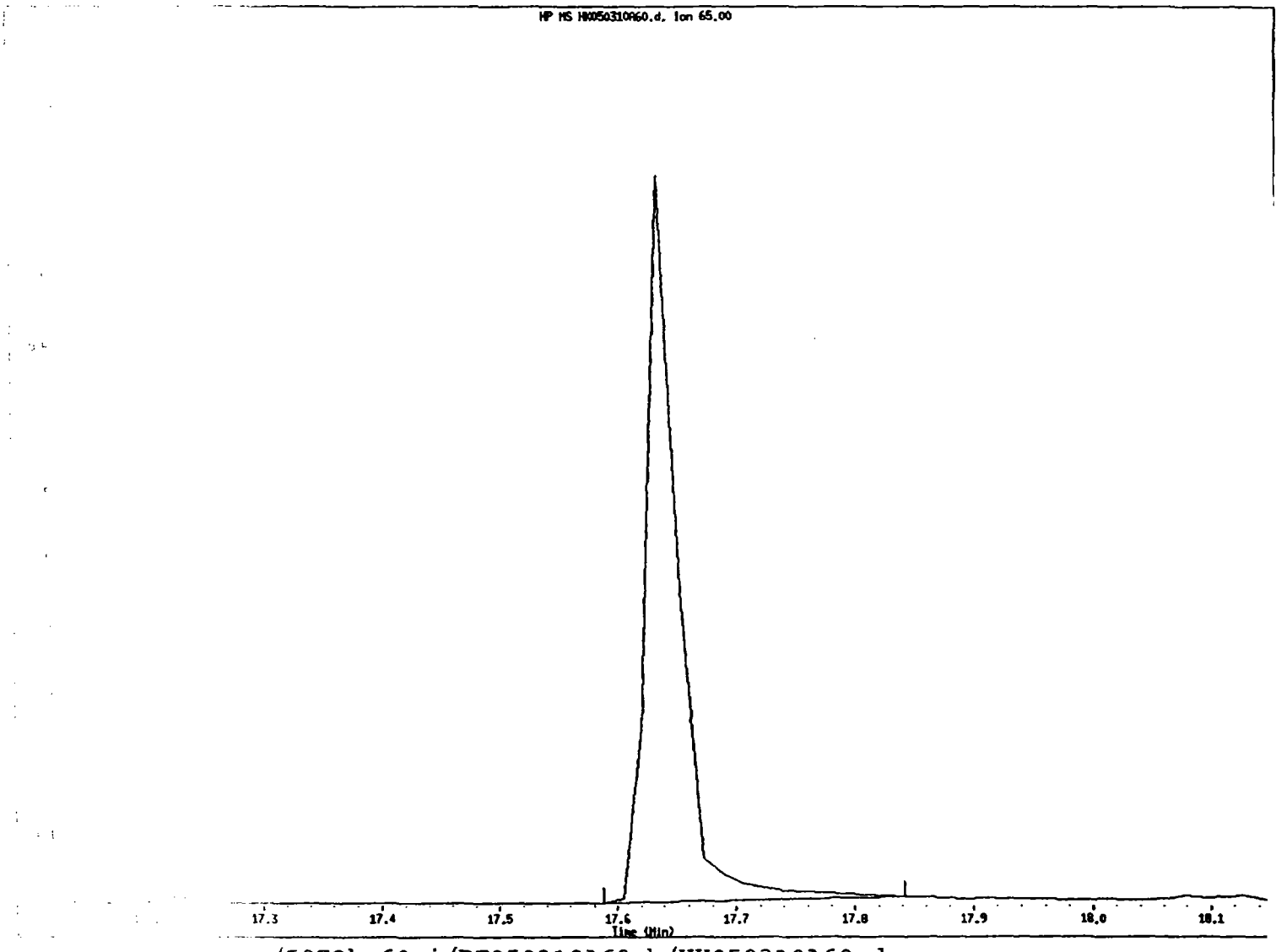
3/14/05 SH

2-Chlorophenol CAS Number 95-57-8 Area = 68675 Manually integrated



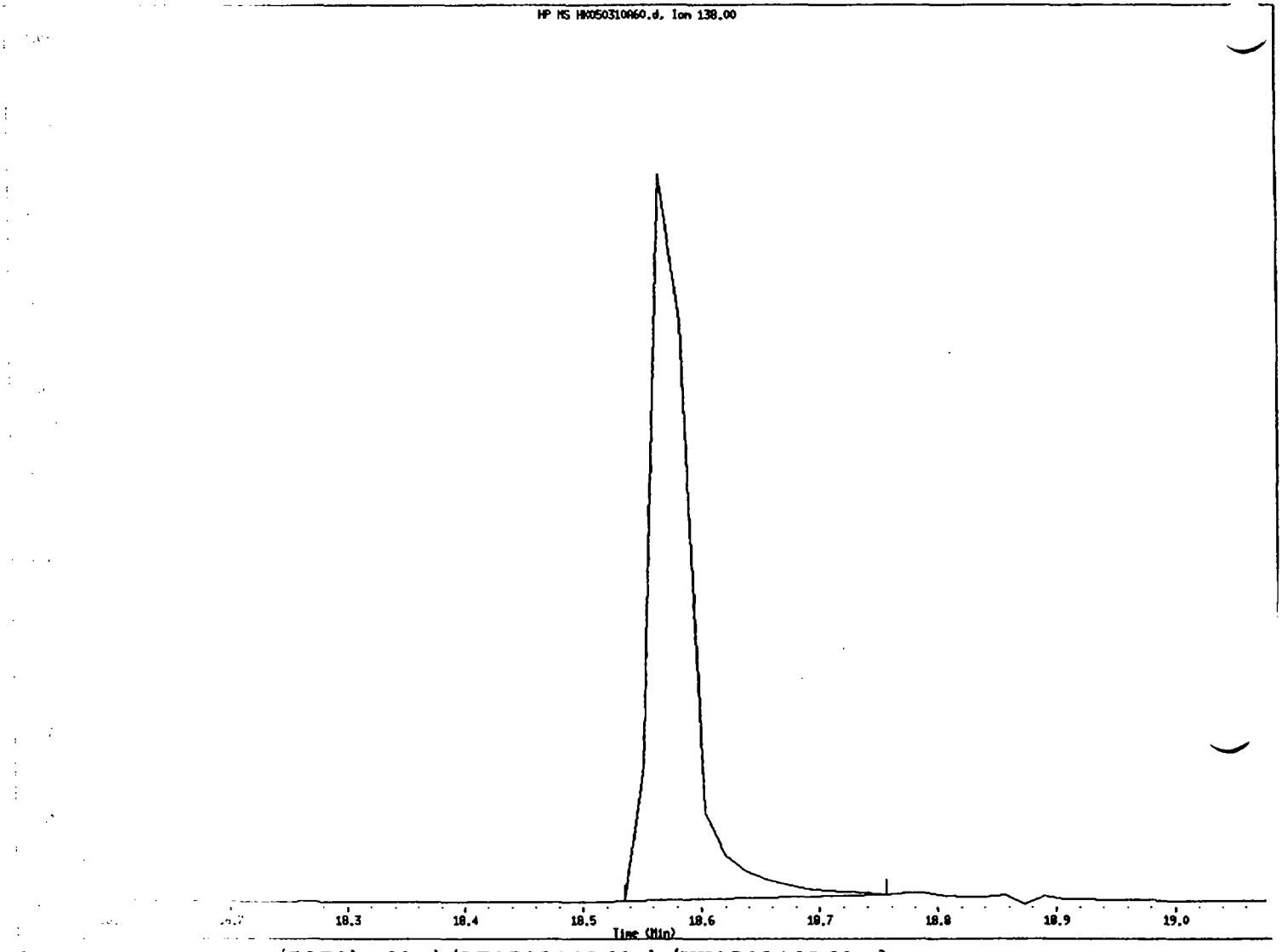
File name: /chem/5972hp60.i/DF050310A60.b/HK050310A60.d
Client ID: SSTD010V0
Instrument ID: 5972hp60.i
Injection Date and Time: 10-MAR-2005 12:24
Retention Time: 10.28
Operator ID: 917

2 Nitroaniline CAS Number 88-74-4 Area = 195978 Manually integrated



[illegible] chem/5972hp60.i/DF050310A60.b/HK050310A60.d
[illegible] 010V0
[illegible] 5972hp60.i
[illegible] and Time: 10-MAR-2005 12:24
Retention Time: 17.64
Operator: [illegible] 917

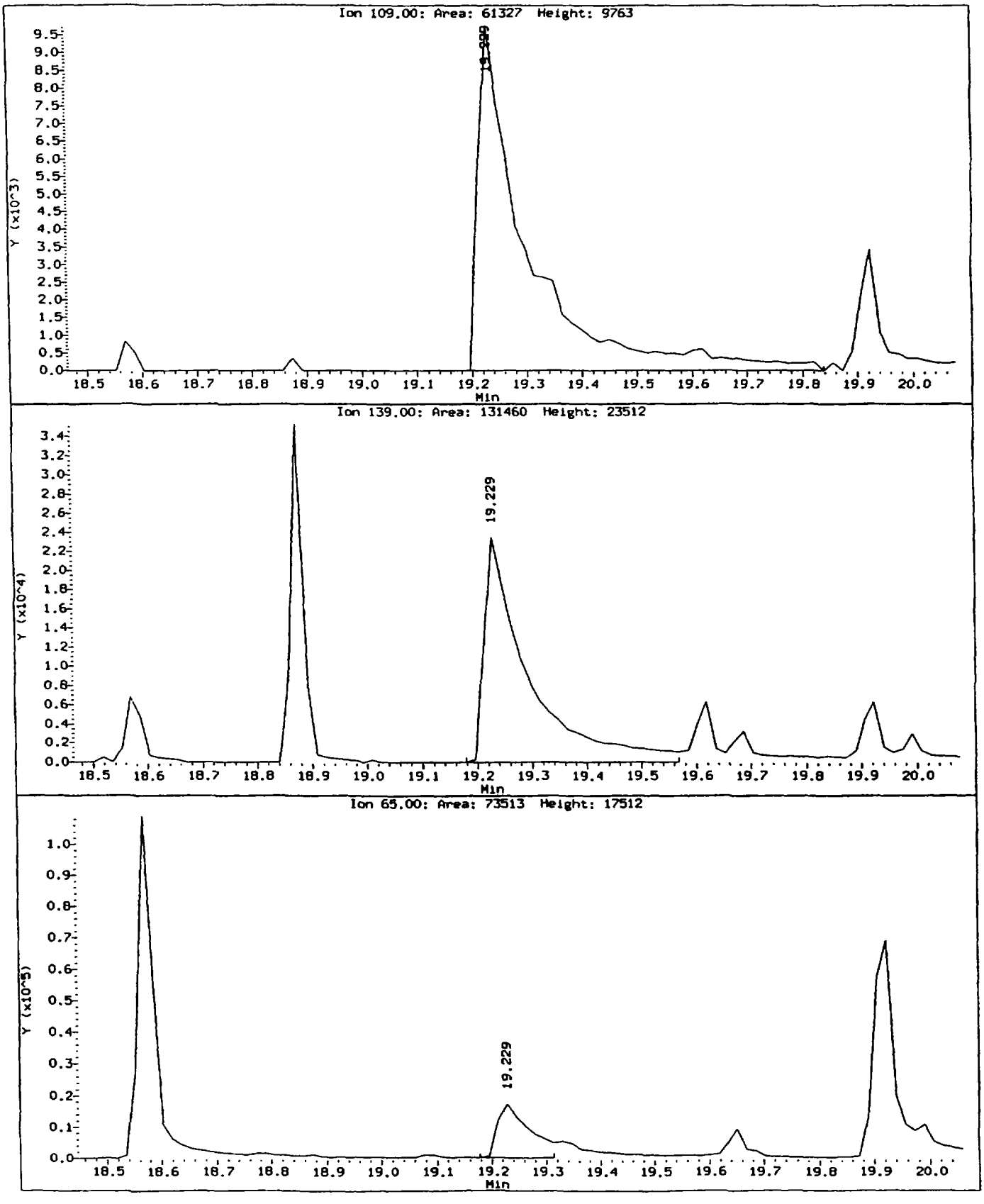
[illegible] CAS Number 99-09-2 Area = 193449 Manually integrated



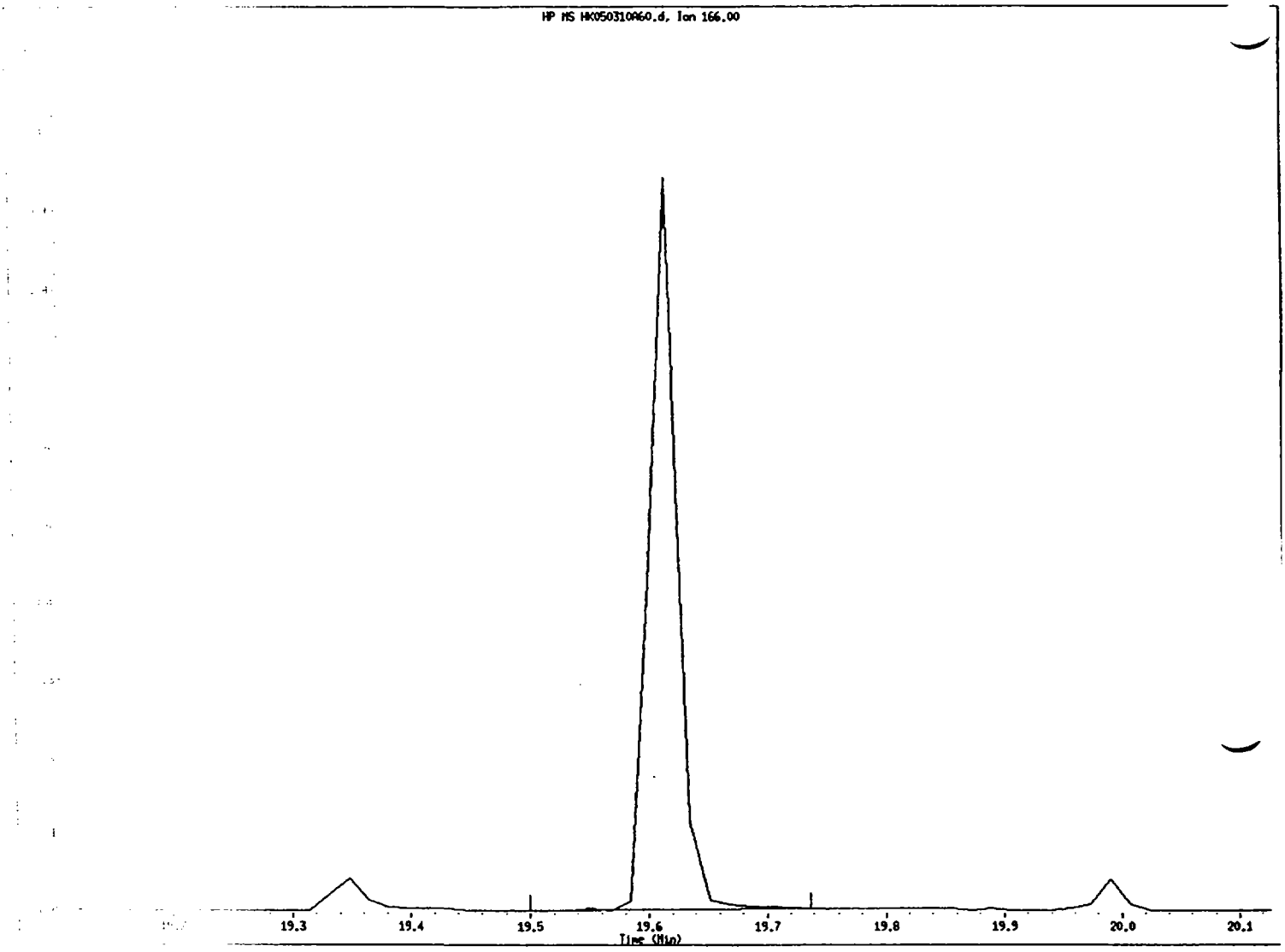
[illegible]em/5972hp60.i/DF050310A60.b/HK050310A60.d
[illegible]010V0
[illegible] 5972hp60.i
[illegible] and Time: 10-MAR-2005 12:24
Retent[illegible]ime: 18.57
Opera[illegible] 17

Data File: /chem/5972hp60.i/DF050310A60.b/HK050310A60.d
Injection Date: 10-MAR-2005 12:24
Instrument: 5972hp60.i
Client Sample ID: SSTD010V0

Compound: 4-Nitrophenol
CAS Number: 100-02-7

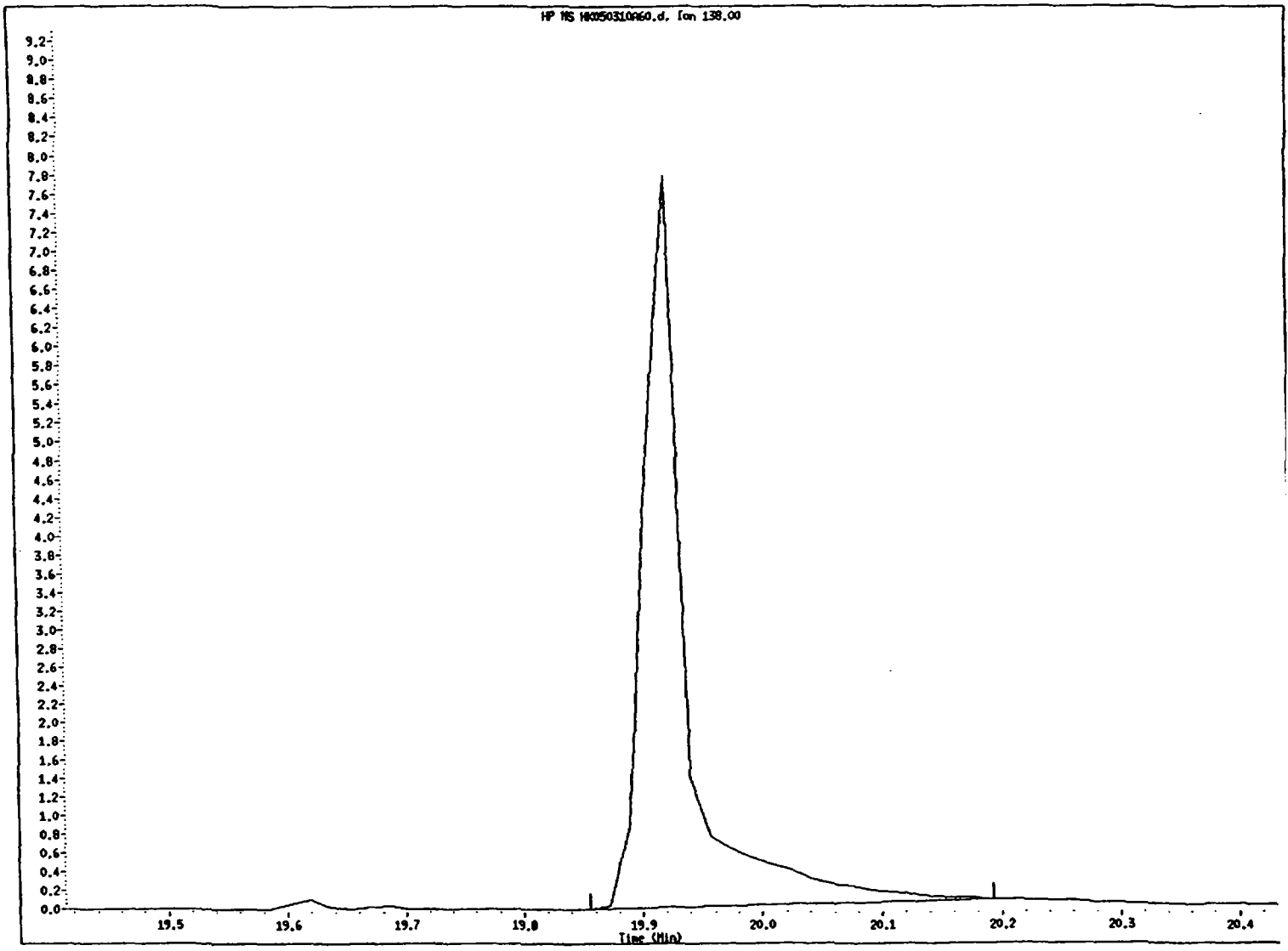


CAS Number 86-73-7 Area = 153419 Manually integrated



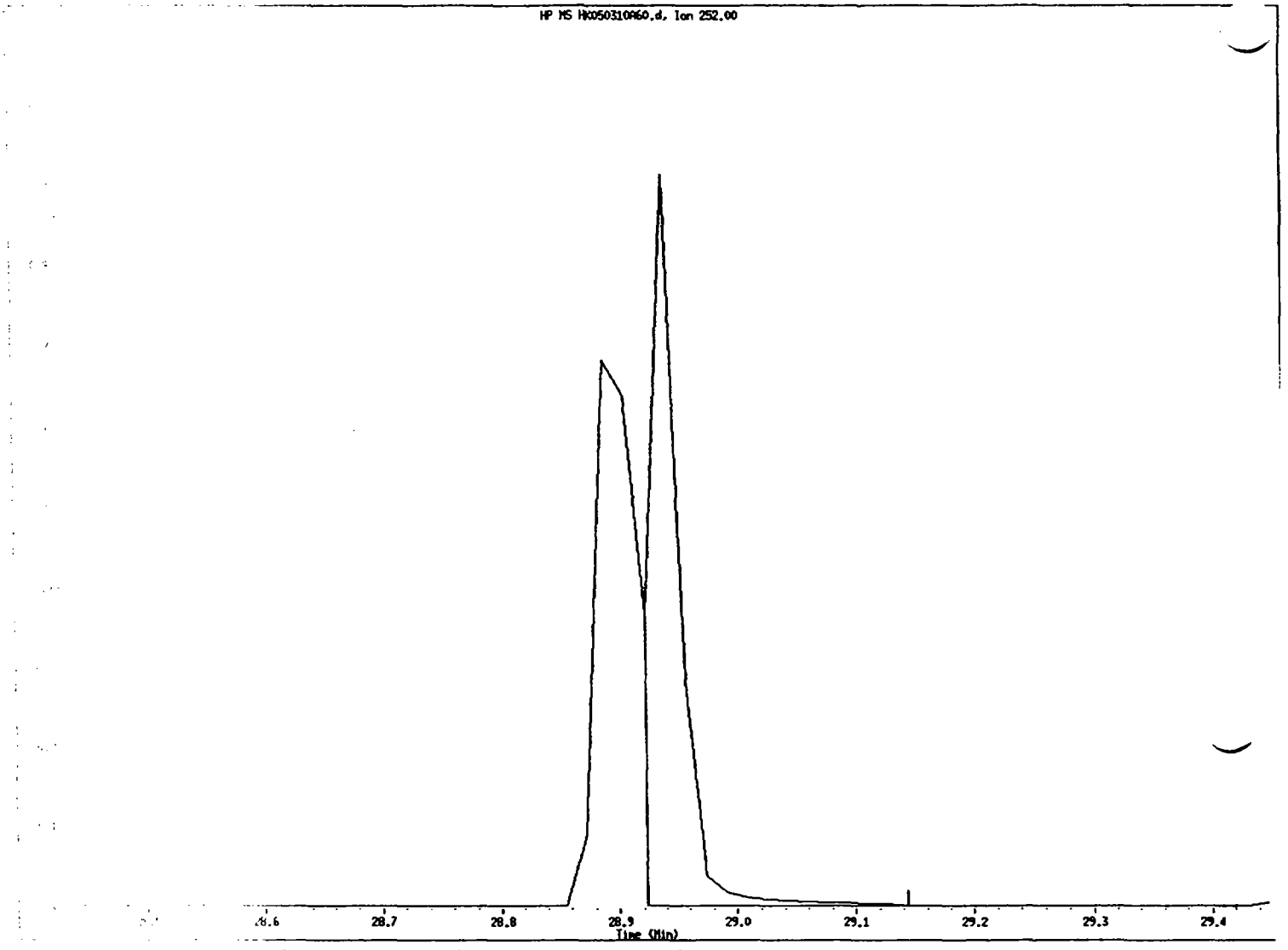
hem/5972hp60.i/DF050310A60.b/HK050310A60.d
D010V0
5972hp60.i
and Time: 10-MAR-2005 12:24
Time: 19.62
917

4-Nitroaniline CAS Number 100-01-6 Area = 191446 Manually integrated



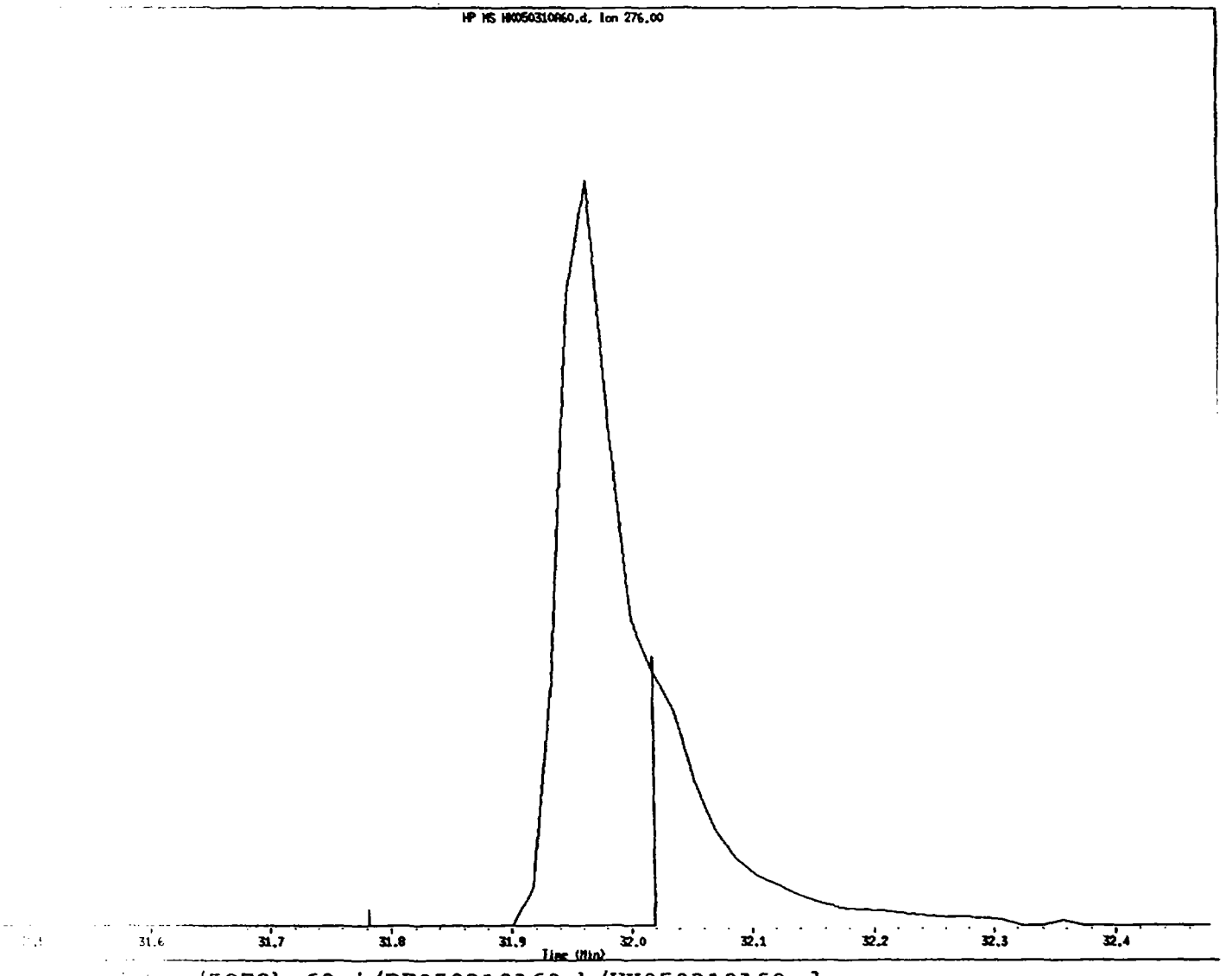
File name: /chem/5972hp60.i/DF050310A60.b/HK050310A60.d
Client ID: SSTD010V0
Instrument ID: 5972hp60.i
Injection Date and Time: 10-MAR-2005 12:24
Retention Time: 19.92
Operator ID: 917

ranthene CAS Number 207-08-9 Area = 167615 User selected hit



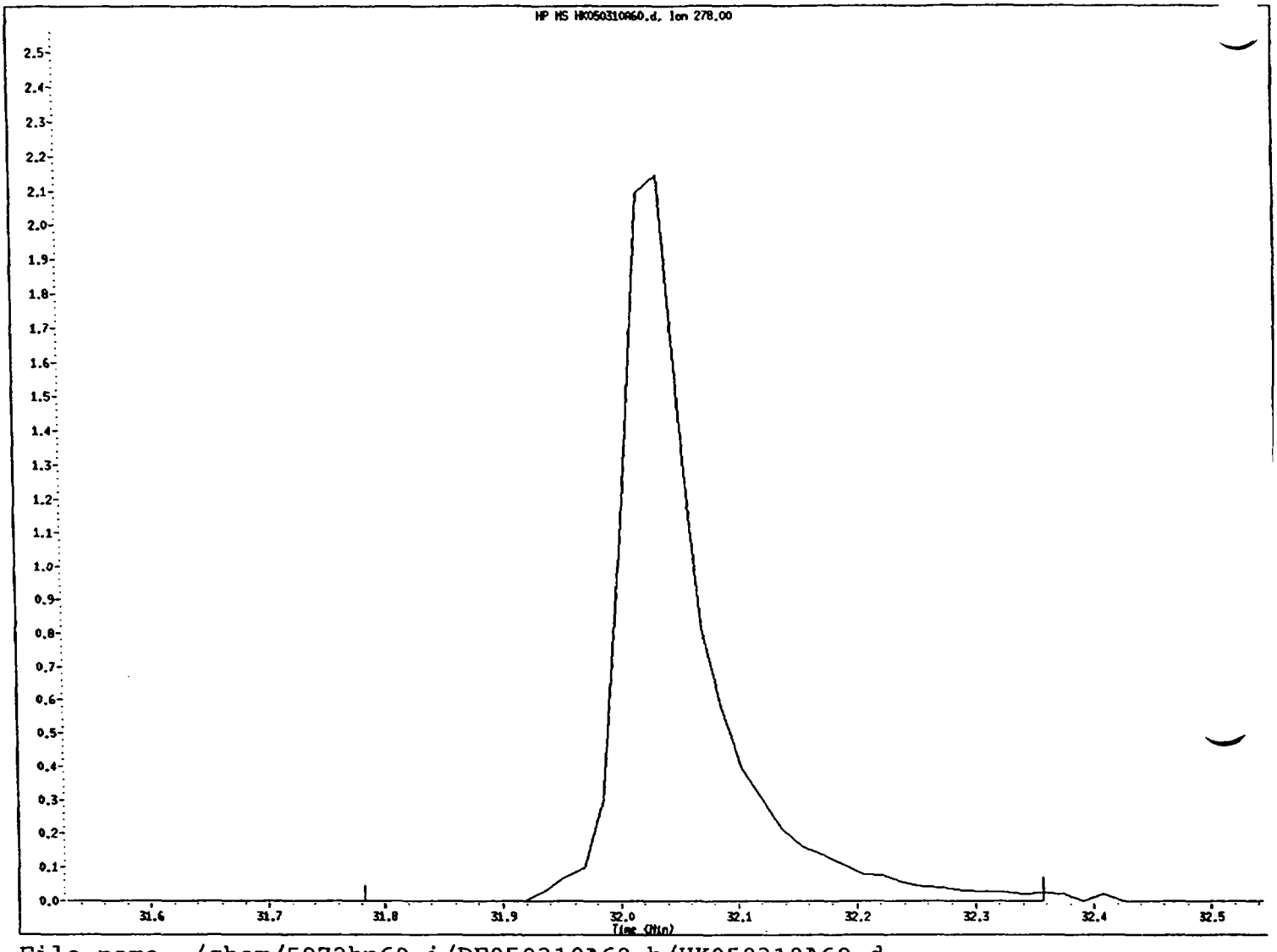
/5972hp60.i/DF050310A60.b/HK050310A60.d
ID010V0
5972hp60.i
Date and Time: 10-MAR-2005 12:24
Time: 28.94
ID: 917

cd)pyrene CAS Number 193-39-5 Area = 104228 Manually integrated



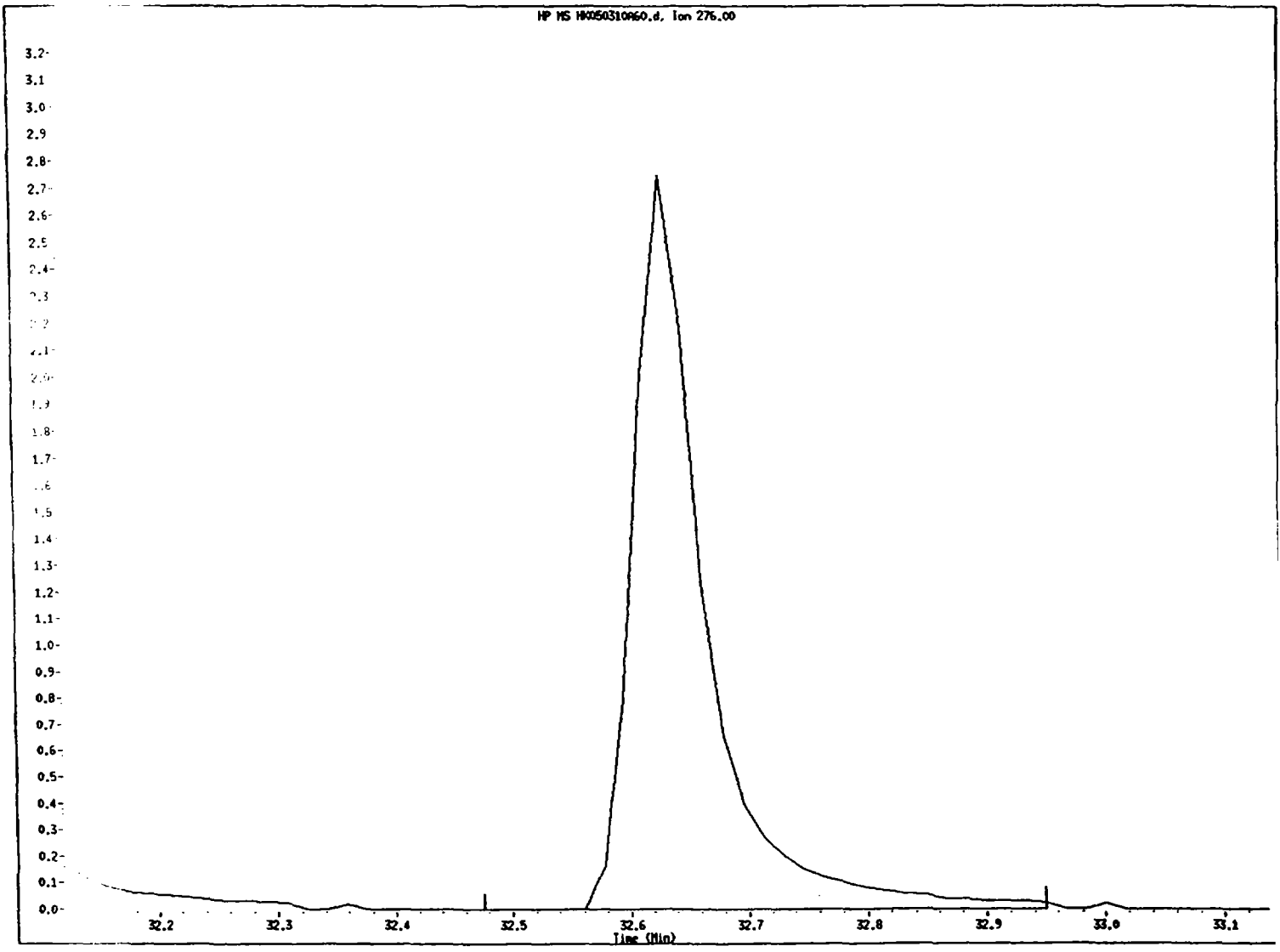
em/5972hp60.i/DF050310A60.b/HK050310A60.d
STD010V0
5972hp60.i
and Time: 10-MAR-2005 12:24
Time: 31.97
917

Dibenzo(a,h)anthracene CAS Number 53-70-3 Area = 105512 Manually integrated



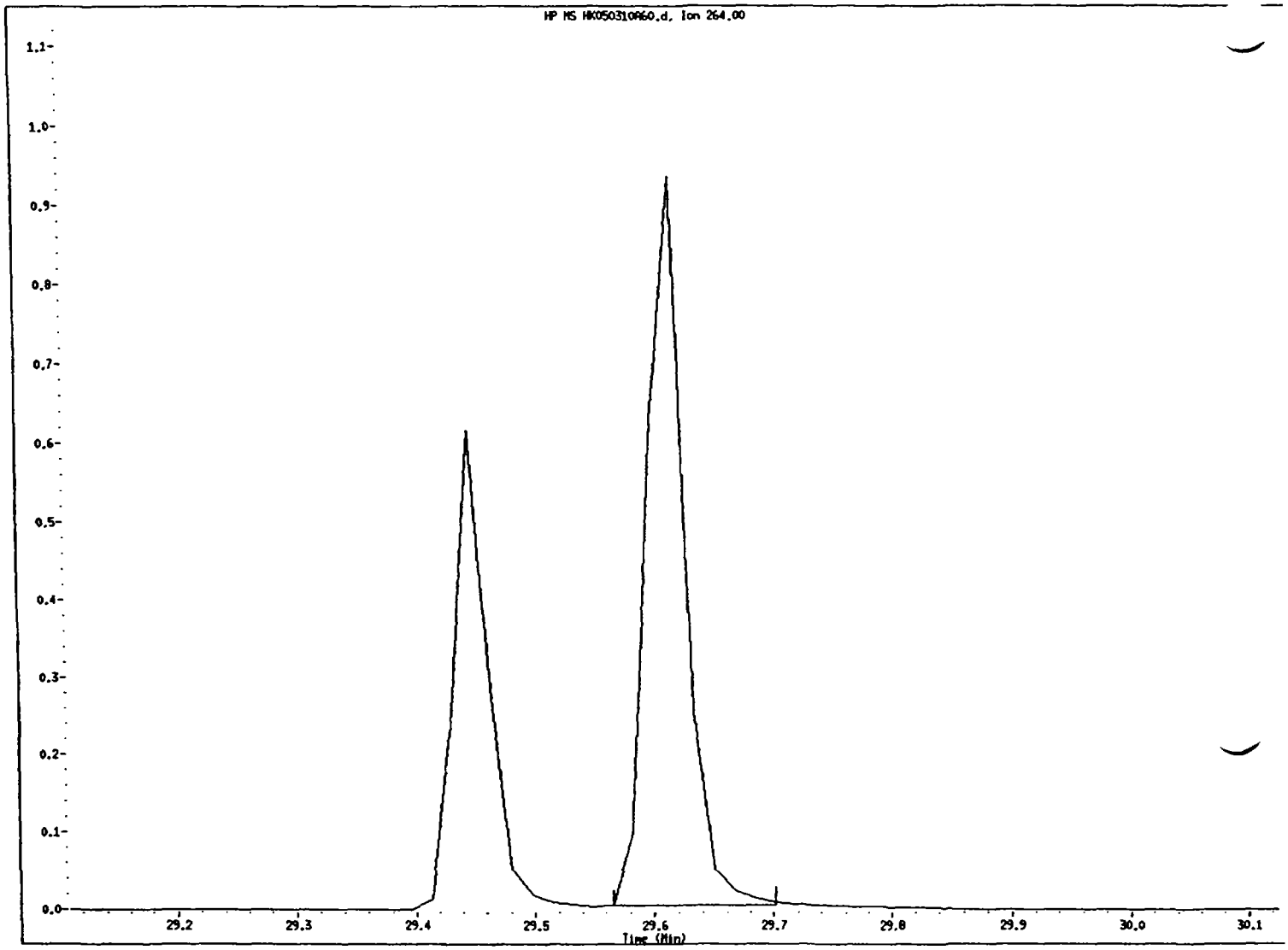
File name: /chem/5972hp60.i/DF050310A60.b/HK050310A60.d
Client ID: SSTD010V0
Instrument ID: 5972hp60.i
Injection Date and Time: 10-MAR-2005 12:24
Retention Time: 32.04
Operator ID: 917

Benzo(g,h,i)perylene CAS Number 191-24-2 Area = 116190 Manually integrated



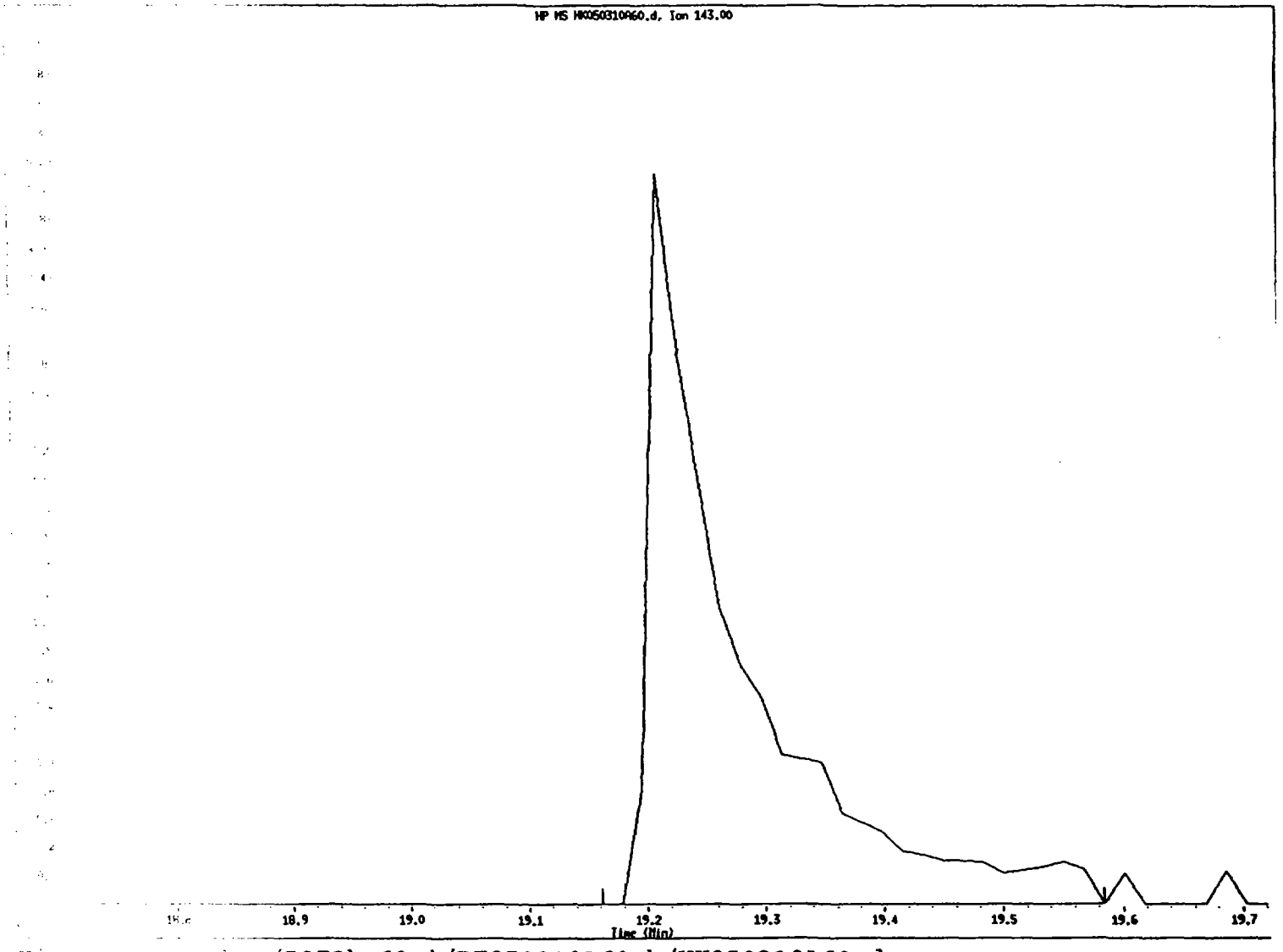
File name: /chem/5972hp60.i/DF050310A60.b/HK050310A60.d
Client ID: SSTD010V0
Instrument ID: 5972hp60.i
Injection Date and Time: 10-MAR-2005 12:24
Retention Time: 32.63
Operator ID: 917

Perylene-d12 CAS Number 1520-96-3 Area = 200776 User selected hit



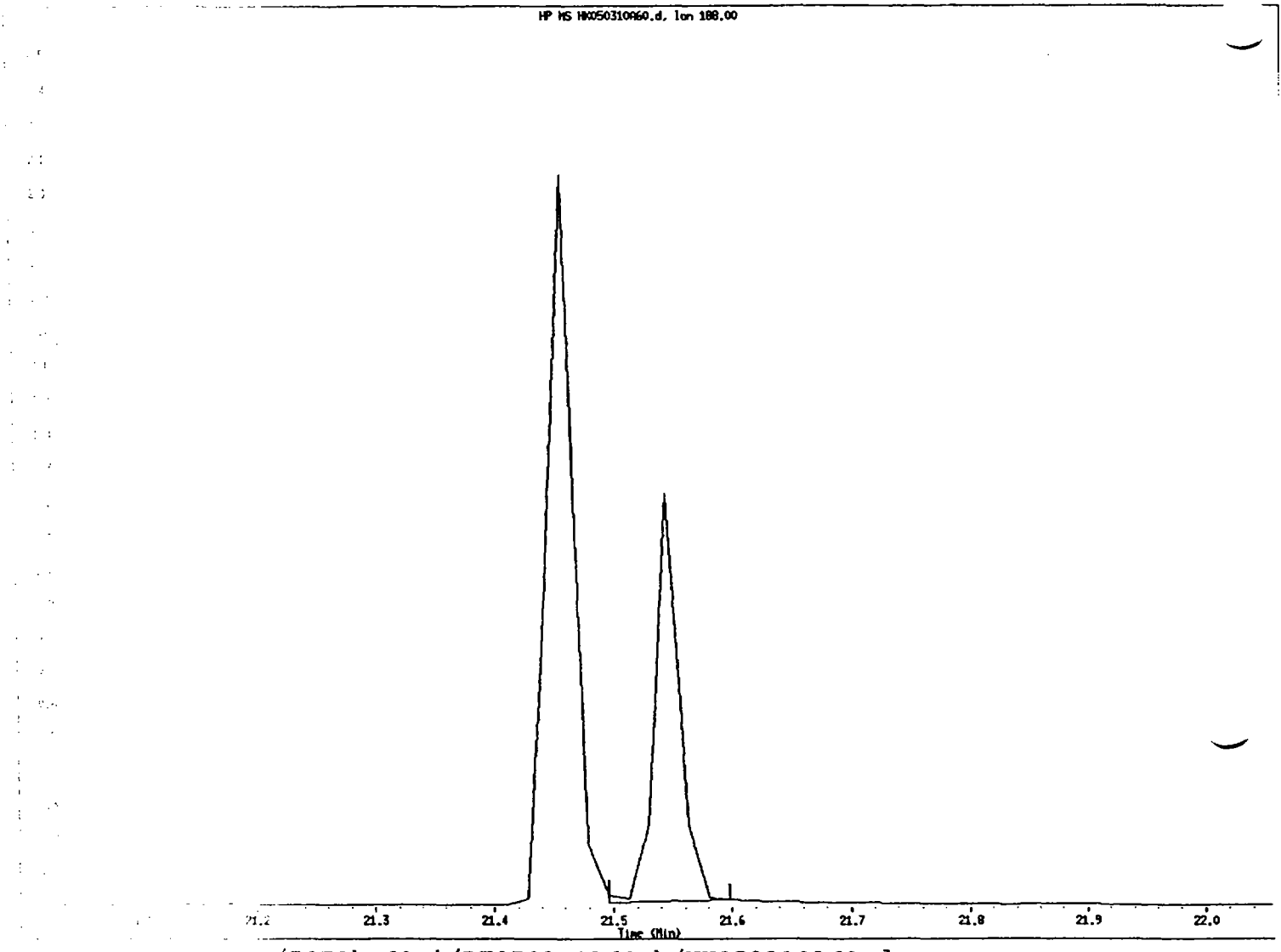
File name: /chem/5972hp60.i/DF050310A60.b/HK050310A60.d
Client ID: SSTD010V0
Instrument ID: 5972hp60.i
Injection Date and Time: 10-MAR-2005 12:24
Retention Time: 29.62
Operator ID: 917

-phenol-d4 CAS Number 93951-79-2 Area = 26130 Manually integrated



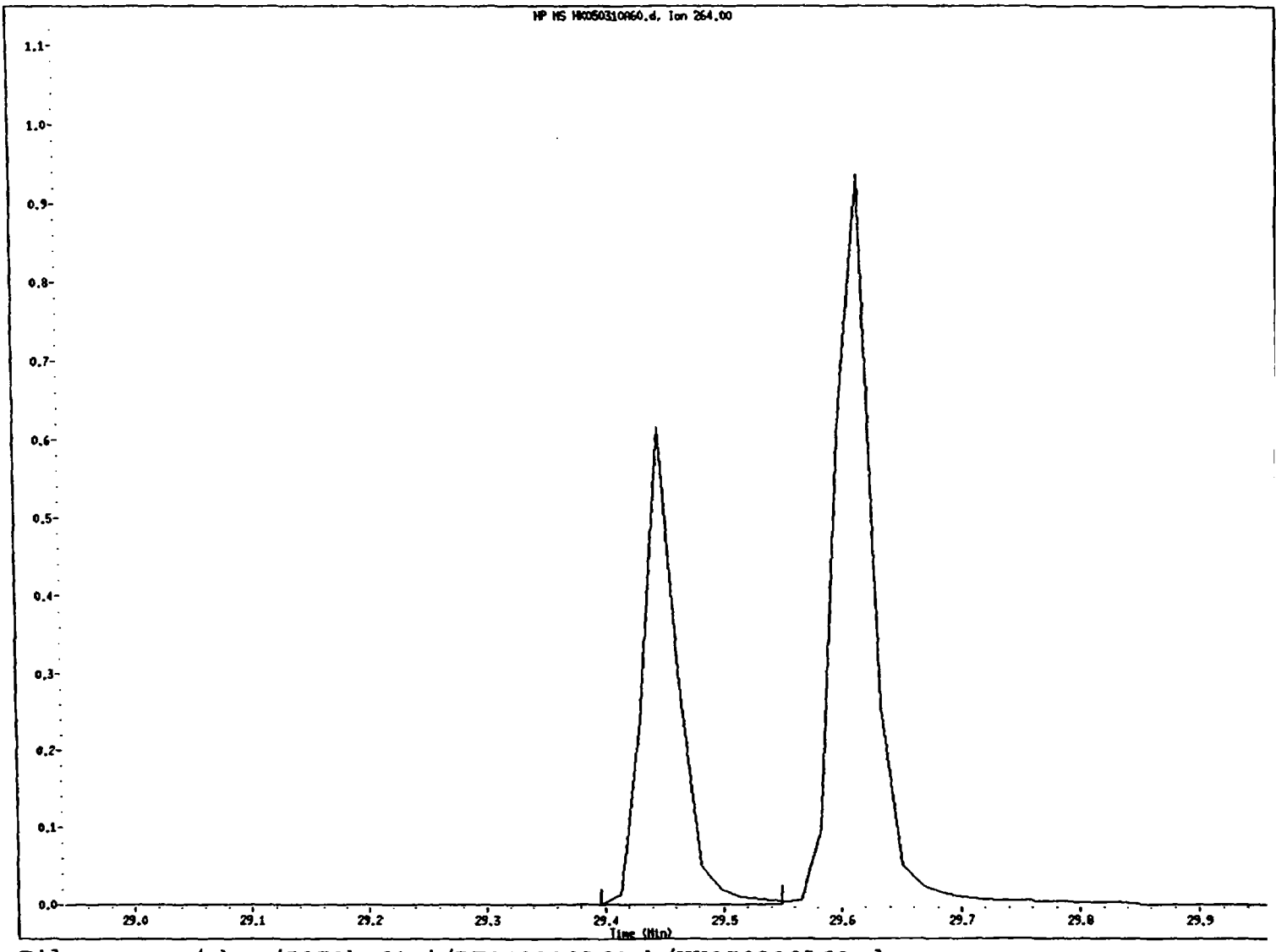
hem/5972hp60.i/DF050310A60.b/HK050310A60.d
SSFD010V0
5972hp60.i
Date and Time: 10-MAR-2005 12:24
Retention Time: 19.21
Operator ID: 917

[illegible] CAS Number 1719-06-8 Area = 172573 User selected hit



[illegible]em/5972hp60.i/DF050310A60.b/HK050310A60.d
[illegible]T0010V0
[illegible] 5972hp60.i
[illegible] and Time: 10-MAR-2005 12:24
Retention Time: 21.55
[illegible] 917

Benzo(a)pyrene-d12 CAS Number 63466-71-7 Area = 125938 User selected hit

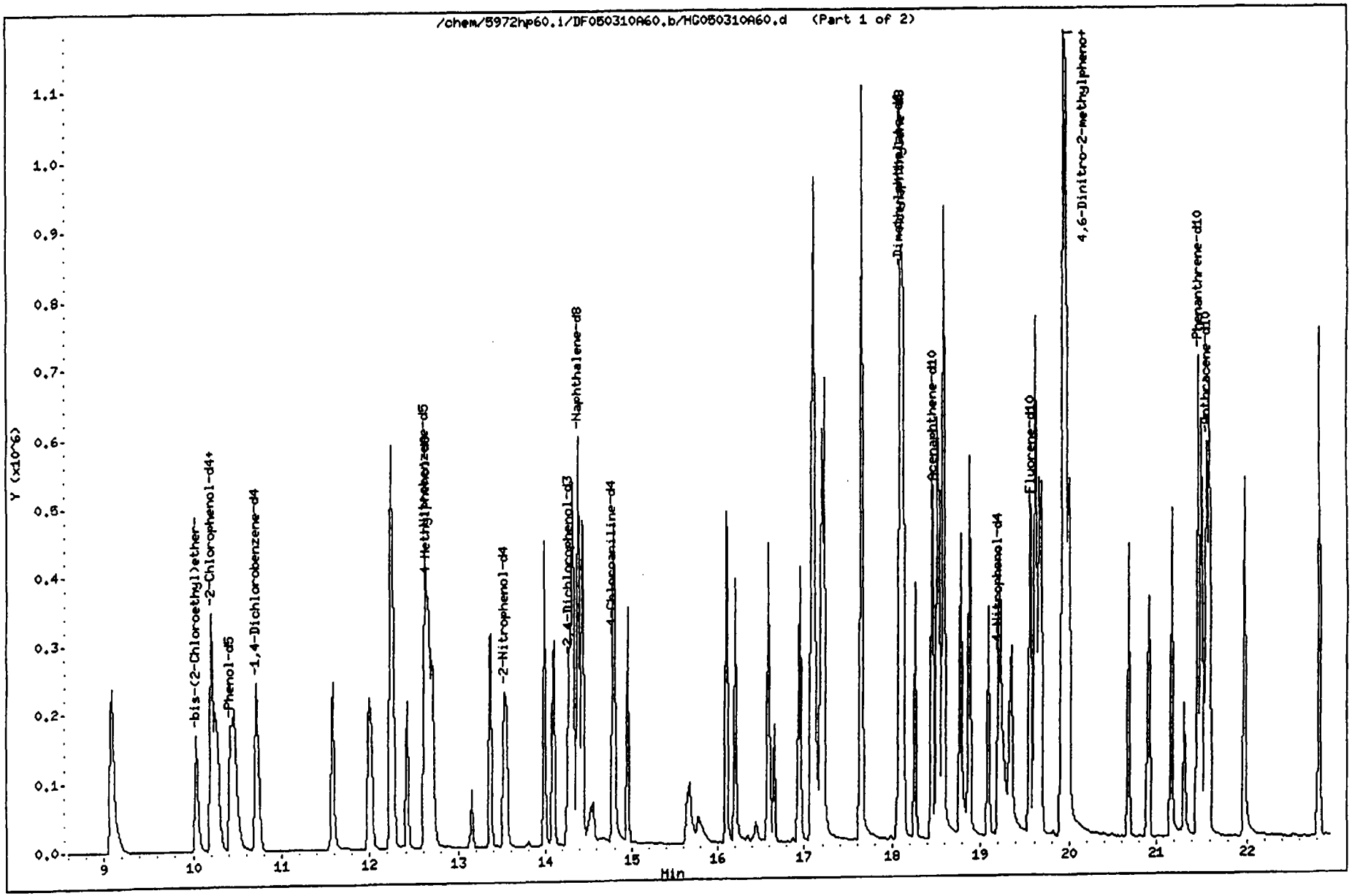


File name: /chem/5972hp60.i/DF050310A60.b/HK050310A60.d
Client ID: SSTD010V0
Instrument ID: 5972hp60.i
Injection Date and Time: 10-MAR-2005 12:24
Retention Time: 29.45
Operator ID: 917

Data File: /chem/5972hp60.i/DF050310A60.b/HC050310A60.d
Date : 10-HAR-2005 09:02
Client ID: SSTD020V0
Sample Info: SSTD020V0:917
Volume Injected (uL): 1.0
Column phase: RTX-5MS

Instrument: 5972hp60.i
Operator: 917
Column diameter: 0.32

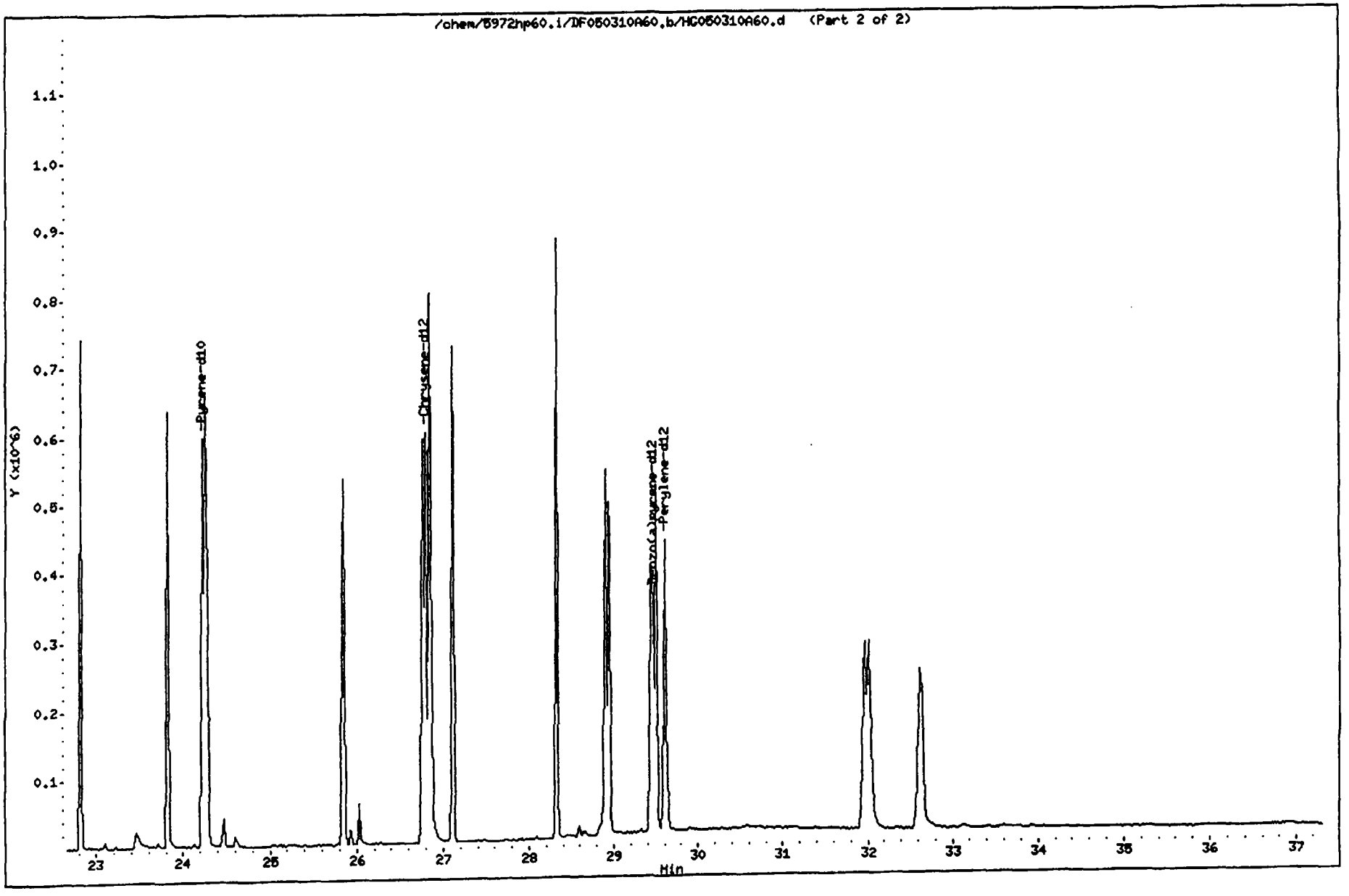
COPY CXX31
ORIGINAL DOCUMENTS INCLUDED IN CSF- 33914
SIGNATURE KM DATE 3/15/05



Data File: /chem/5972hp60.i/DF050310A60.b/HC050310A60.d
Date : 10-MAR-2005 09:02
Client ID: SSTD020V0
Sample Info: SSTD020V0:917
Volume Injected (uL): 1.0
Column phase: RTX-5MS

Instrument: 5972hp60.i

Operator: 917
Column diameter: 0.32



Data File: /chem/5972hp60.i/DF050310A60.b/HG050310A60.d
Report Date: 14-Mar-2005 09:42

CompuChem

OLC03.0 + REVISIONS QUANT AND RATIO REPORT

Data file : /chem/5972hp60.i/DF050310A60.b/HG050310A60.d
Lab Smp Id: SSTD020V0 Client Smp ID: SSTD020V0
Inj Date : 10-MAR-2005 09:02
Operator : 917 Inst ID: 5972hp60.i
Smp Info : SSTD020V0:917
Misc Info :
Comment :
Method : /chem/5972hp60.i/DF050310A60.b/OLC03v5.m
Meth Date : 14-Mar-2005 09:41 henning Quant Type: ISTD
Cal Date : 10-MAR-2005 09:02 Cal File: HG050310A60.d
Als bottle: 2 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: OLC03.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/(Vo * Vi) * CpndVariable

Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)	SIMILARITY
*	1 1,4-Dichlorobenzene-d4	152	10.714	10.720	(1.000)	118636	20.0000		
*	2 Naphthalene-d8	136	14.385	14.391	(1.000)	483162	20.0000		7980
*	3 Acenaphthene-d10	164	18.462	18.451	(1.000)	271614	20.0000		7544
*	4 Phenanthrene-d10	188	21.457	21.462	(1.000)	396004	20.0000		8614
*	5 Chrysene-d12	240	26.803	26.808	(1.000)	302903	20.0000		7921
*	6 Perylene-d12	264	29.611	29.617	(1.000)	236313	20.0000		7354(H)
$	7 Phenol-d5	99	10.427	10.449	(0.973)	213329	20.0000	20	0(M)
$	8 bis-(2-Chloroethyl)ether-d8	67	10.037	10.043	(0.937)	128835	20.0000	20	8586
$	9 2-Chlorophenol-d4	132	10.207	10.229	(0.953)	165961	20.0000	20	8756
$	10 4-Methylphenol-d8	113	12.643	12.648	(1.180)	169866	20.0000	20	9284
$	11 Nitrobenzene-d5	128	12.626	12.631	(0.878)	87656	20.0000	20	8438
$	12 2-Nitrophenol-d4	143	13.523	13.528	(0.940)	96869	20.0000	20	8573
$	13 2,4-Dichlorophenol-d3	165	14.267	14.289	(0.992)	148053	20.0000	20	7837
$	14 4-Chloroaniline-d4	131	14.774	14.780	(1.027)	204662	20.0000	20	8836
$	15 Dimethylphthalate-d6	166	18.073	18.079	(0.979)	365850	20.0000	20	9175
$	16 Acenaphthylene-d8	160	18.090	18.079	(0.980)	508587	20.0000	20	9299
$	17 4-Nitrophenol-d4	143	19.190	19.212	(1.039)	77061	20.0000	20	8279(M)
$	18 Fluorene-d10	176	19.562	19.551	(1.060)	300217	20.0000	20	9319
$	19 4,6-Dinitro-2-methylphenol-d2	200	19.934	19.923	(0.929)	74691	20.0000	20	7323

3/14/05 JH

Data File: /chem/5972hp60.i/DF050310A60.b/HG050310A60.d
Report Date: 14-Mar-2005 09:42

	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)	SIMILARITY
	188	21.542	21.547	(1.004)	385879	20.0000	20	9121(H)
	212	24.231	24.237	(0.904)	408223	20.0000	20	8971
	264	29.459	29.448	(1.000)	301554	20.0000	20	8449(H)
	77	9.090	9.096	(0.848)	202655	20.0000	20	7620
	94	10.460	10.483	(0.976)	224141	20.0000	20	7831
	93	10.207	10.212	(0.953)	161529	20.0000	20	8926
	128	10.257	10.280	(0.957)	166946	20.0000	20	0(M)
	108	12.237	12.242	(1.142)	163773	20.0000	20	
	45	12.000	12.005	(1.120)	323730	20.0000	20	
	105	12.220	12.242	(1.141)	225111	20.0000	20	8989
	108	12.710	12.699	(1.186)	175467	20.0000	20	(H)
	70	12.423	12.428	(1.159)	101739	20.0000	20	7177
	117	12.271	12.276	(1.145)	78335	20.0000	20	8559
	77	12.660	12.682	(0.880)	221924	20.0000	20	8275
	82	13.370	13.359	(0.929)	329982	20.0000	20	7812
	139	13.556	13.562	(0.942)	104465	20.0000	20	8589
	107	13.979	13.985	(0.972)	150393	20.0000	20	8667
	93	14.098	14.086	(0.980)	232269	20.0000	20	8402
	162	14.301	14.323	(0.994)	146745	20.0000	20	
	128	14.436	14.425	(1.004)	488197	20.0000	20	8043
	127	14.808	14.814	(1.029)	215387	20.0000	20	8250
	225	14.961	14.966	(1.040)	68379	20.0000	20	9014
	113	15.671	15.626	(1.089)	61805	20.0000	20	8600(M)
	107	16.196	16.201	(1.126)	154430	20.0000	20	8910
	142	16.111	16.099	(1.120)	316954	20.0000	20	
	216	16.585	16.590	(0.898)	138804	20.0000	20	9457
	237	16.652	16.658	(0.902)	49207	20.0000	20	8104
	196	16.940	16.945	(0.918)	98060	20.0000	20	
	196	17.092	17.098	(0.926)	425389	80.0000	80	(H)
	154	17.227	17.233	(0.933)	380983	20.0000	20	8232
	162	17.194	17.199	(0.931)	309055	20.0000	20	8512
	65	17.650	17.639	(0.956)	387065	80.0000	80	8122
	163	18.124	18.130	(0.982)	345576	20.0000	20	8399
	165	18.259	18.265	(0.989)	90844	20.0000	20	8013
	152	18.107	18.113	(0.981)	515158	20.0000	20	9218
	138	18.581	18.569	(1.006)	400132	80.0000	80	7888
	153	18.513	18.519	(1.003)	312606	20.0000	20	8498
	184	18.784	18.789	(1.017)	189391	80.0000	80	8881
	109	19.207	19.229	(1.040)	118081	80.0000	80	(M)
	168	18.869	18.874	(1.022)	456990	20.0000	20	8813
	165	19.088	19.094	(1.034)	120330	20.0000	20	8557
	149	19.647	19.652	(1.064)	363392	20.0000	20	9032
	166	19.613	19.618	(1.062)	372656	20.0000	20	0(M)
	204	19.681	19.686	(1.066)	151502	20.0000	20	8308
	138	19.934	19.923	(1.080)	377768	80.0000	80	(M)
	198	19.951	19.940	(0.930)	291770	80.0000	80	
	169	20.002	19.991	(0.932)	254924	20.0000	20	7575

3/14/05 JH

Data File: /chem/5972hp60.i/DF050310A60.b/HG050310A60.d
Report Date: 14-Mar-2005 09:42

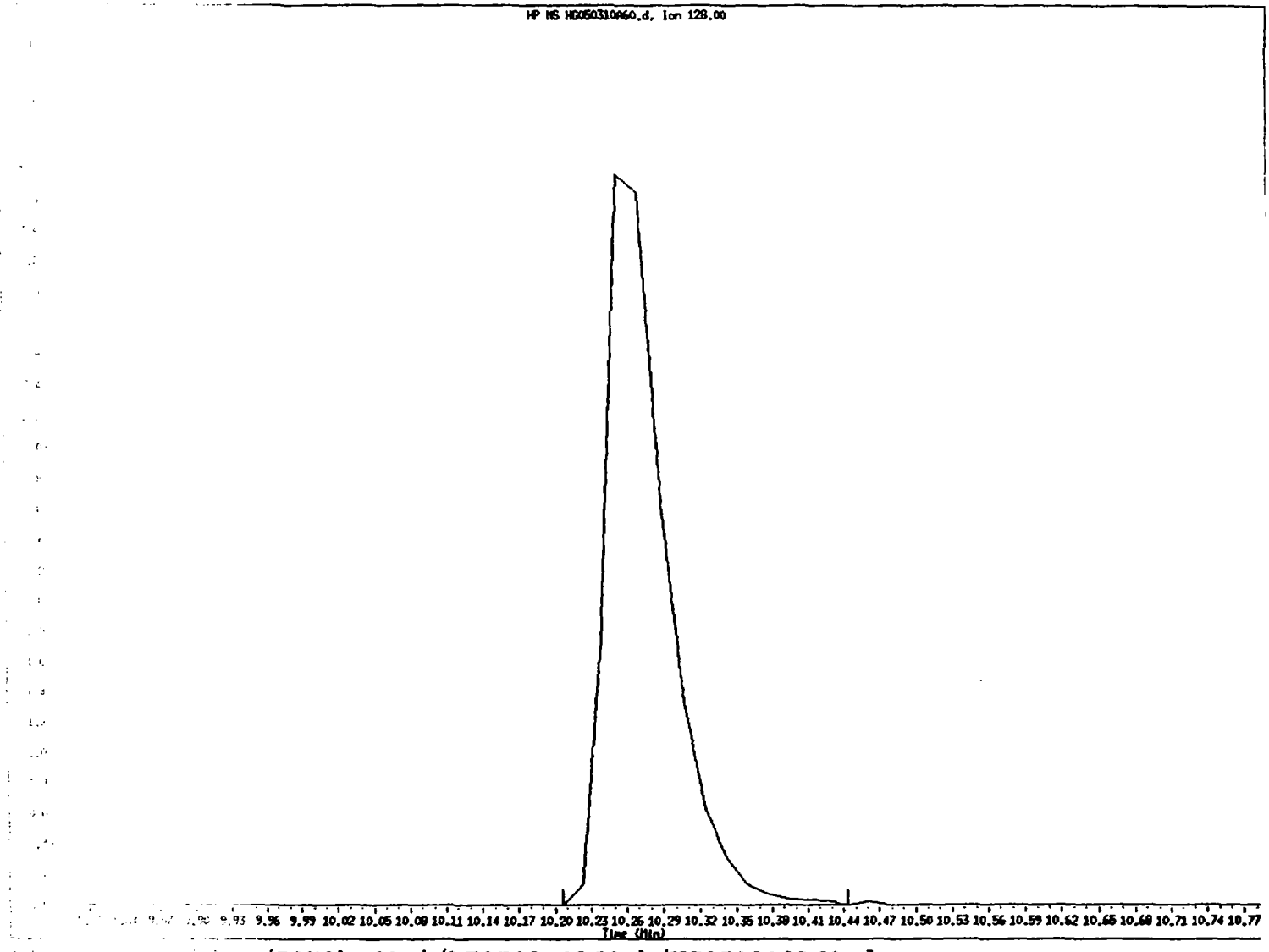
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)	SIMILARITY
69 4-Bromophenyl-phenylether	248	20.679	20.684	(0.964)	79530	20.0000	20	7727
70 Hexachlorobenzene	284	20.916	20.904	(0.975)	95189	20.0000	20	9652
71 Atrazine	200	21.169	21.175	(0.987)	71329	20.0000	20	8736
72 Pentachlorophenol	266	21.305	21.327	(0.993)	50119	20.0000	20	9509
73 Phenanthrene	178	21.491	21.496	(1.002)	461002	20.0000	20	
74 Anthracene	178	21.575	21.581	(1.006)	441202	20.0000	20	
75 Di-n-butylphthalate	149	22.827	22.833	(1.064)	594700	20.0000	20	8931
76 Fluoranthene	202	23.825	23.831	(1.110)	435916	20.0000	20	
77 Pyrene	202	24.265	24.271	(0.905)	449162	20.0000	20	
78 Butylbenzylphthalate	149	25.856	25.844	(0.965)	272569	20.0000	20	8030
79 3,3'-Dichlorobenzidine	252	26.854	26.859	(1.002)	96208	20.0000	20	8903
80 bis(2-Ethylhexyl)phthalate	149	27.107	27.113	(1.011)	388411	20.0000	20	8641
81 Benzo(a)anthracene	228	26.769	26.775	(0.999)	384665	20.0000	20	
82 Chrysene	228	26.854	26.859	(1.002)	347927	20.0000	20	
83 Di-n-octylphthalate	149	28.326	28.331	(0.962)	693010	20.0000	20	9184
84 Benzo(b)fluoranthene	252	28.901	28.889	(0.981)	378893	20.0000	20	
85 Benzo(k)fluoranthene	252	28.951	28.940	(0.983)	418642	20.0000	20	(H)
86 Benzo(a)pyrene	252	29.493	29.498	(1.001)	327980	20.0000	20	7856(H)
87 Indeno(1,2,3-cd)pyrene	276	31.963	31.968	(1.079)	290354	20.0000	20	8070(M)
88 Dibenzo(a,h)anthracene	278	32.014	32.036	(1.087)	284106	20.0000	20	8221
89 Benzo(g,h,i)perylene	276	32.623	32.628	(1.102)	298091	20.0000	20	0(M)

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

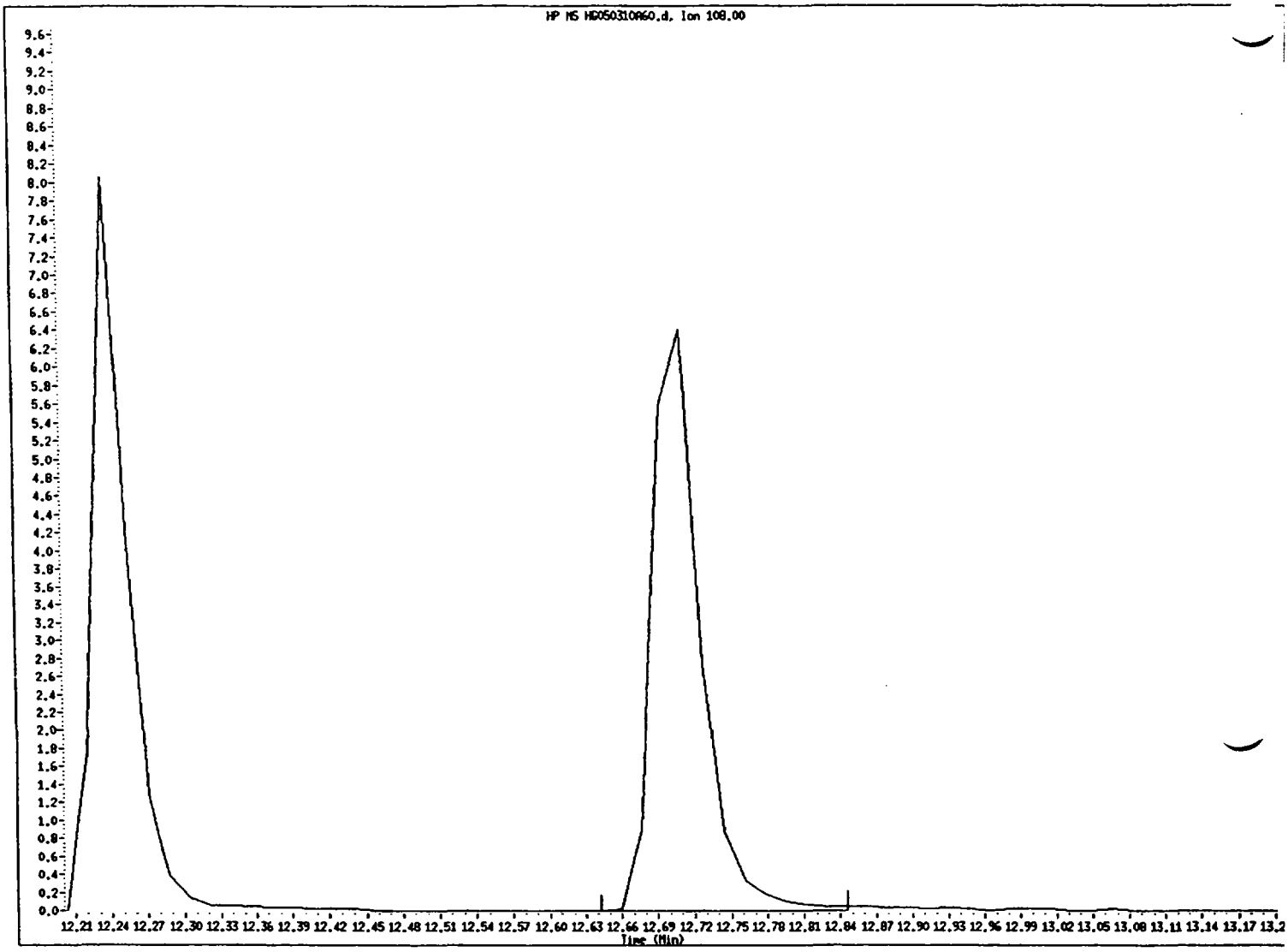
3/14/05 DH

phenol CAS Number 95-57-8 Area = 166946 Manually integrated



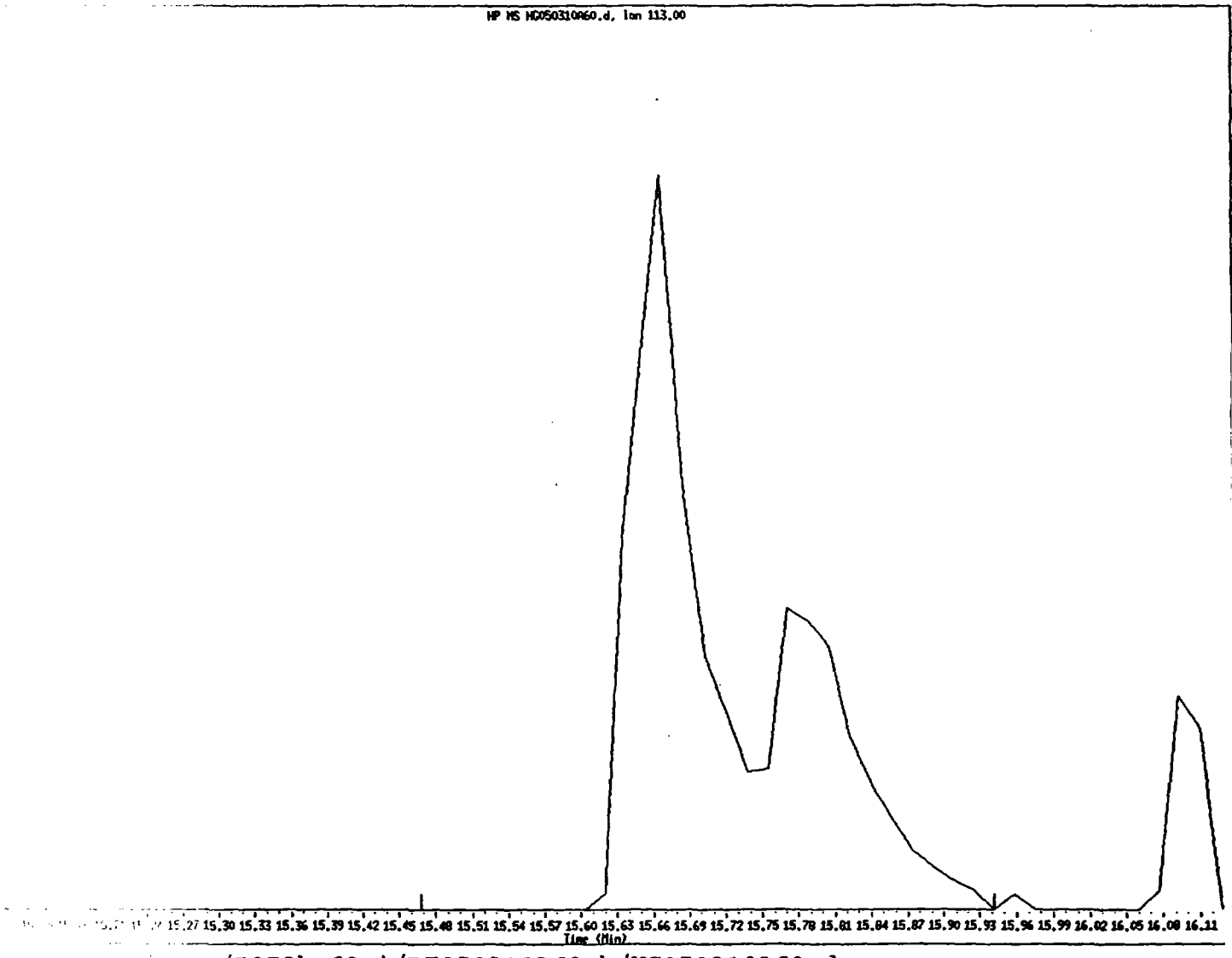
/chem/5972hp60.i/DF050310A60.b/HG050310A60.d
TD020V0
5972hp60.i
Date and Time: 10-MAR-2005 09:02
Time: 10.26
317

4-Methylphenol CAS Number 106-44-5 Area = 175467 User selected hit



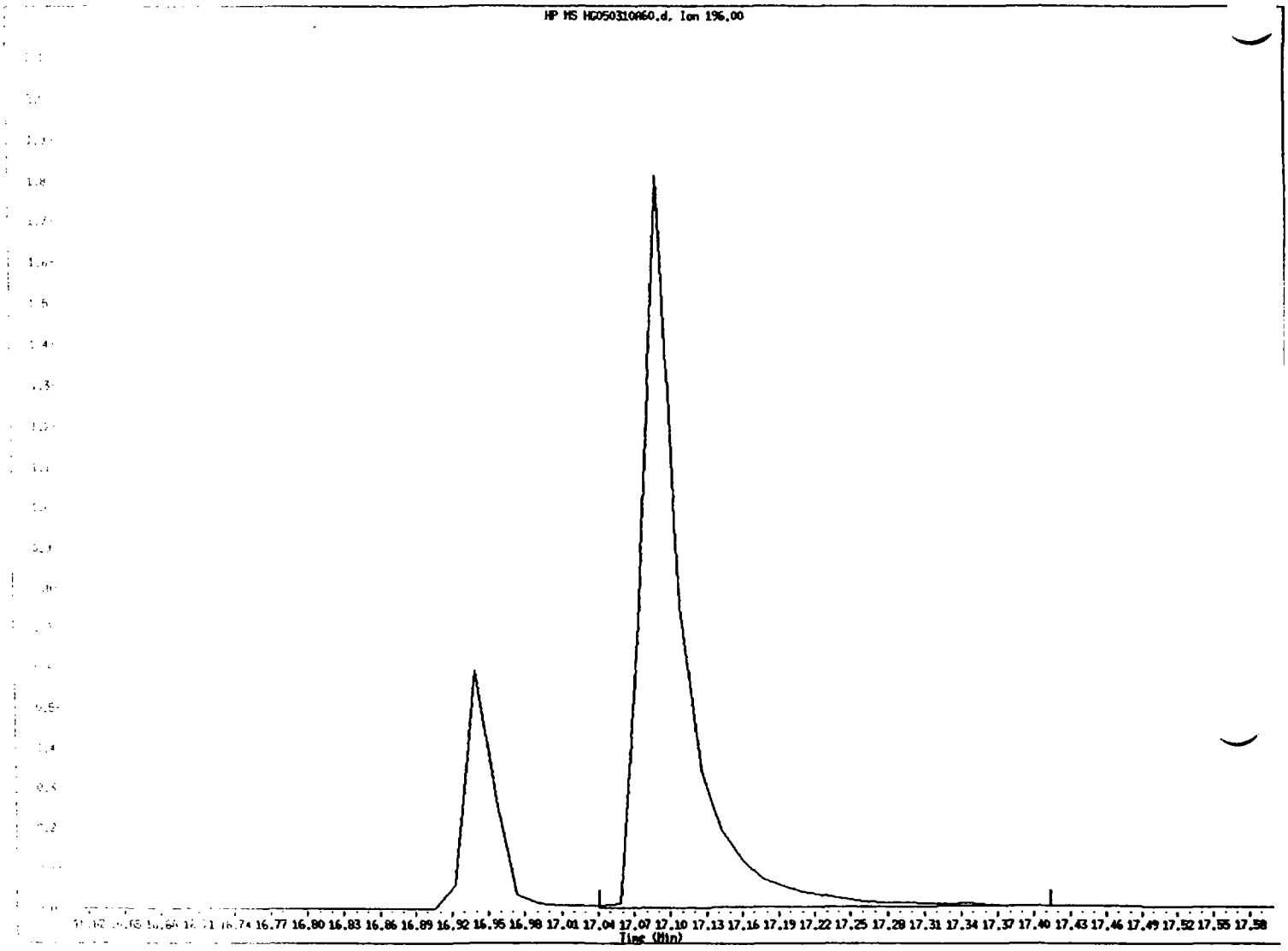
File name: /chem/5972hp60.i/DF050310A60.b/HG050310A60.d
Client ID: SSTD020V0
Instrument ID: 5972hp60.i
Injection Date and Time: 10-MAR-2005 09:02
Retention Time: 12.71
Operator ID: 917

CAS Number 105-60-2 Area = 61805 Manually integrated



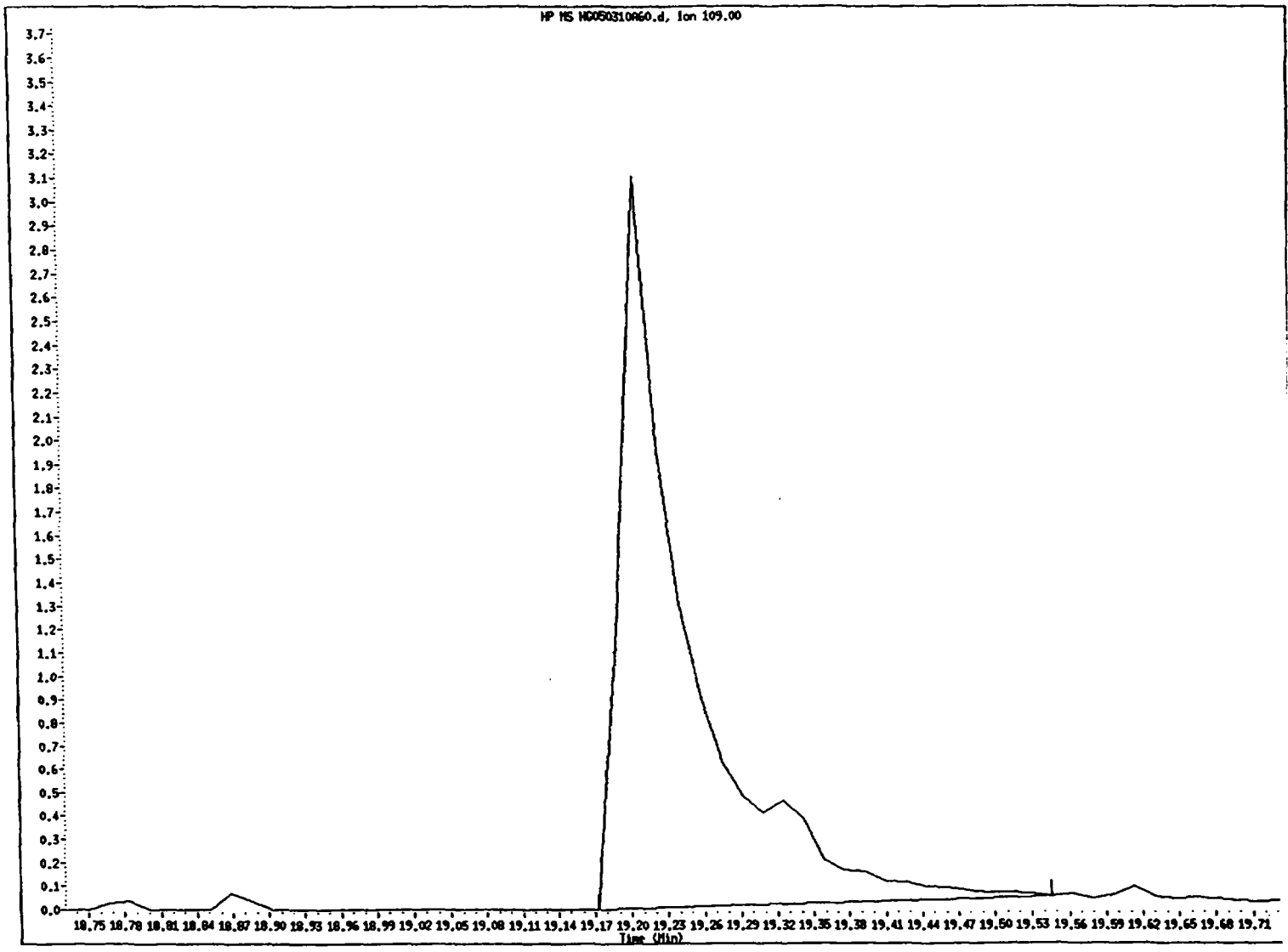
bem/5972hp60.i/DF050310A60.b/HG050310A60.d
5TD020V0
D. 5972hp60.i
te and Time: 10-MAR-2005 09:02
Time: 15.67
ID: 917

2,4,5-Trichlorophenol CAS Number 95-95-4 Area = 425389 User selected hit



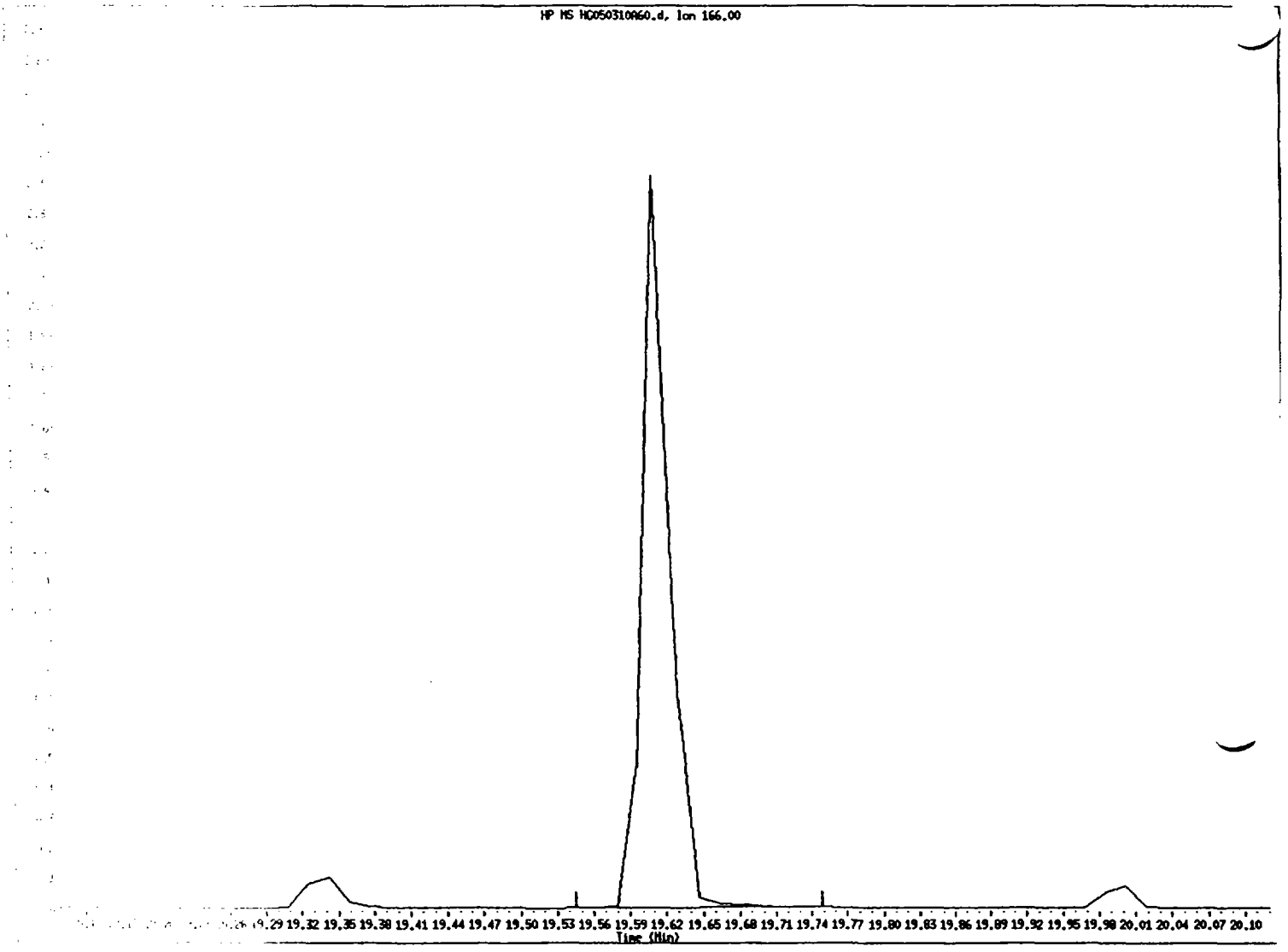
File Name: /chem/5972hp60.i/DF050310A60.b/HG050310A60.d
Client ID: SSTD020V0
Instrument ID: 5972hp60.i
Injection Date and Time: 10-MAR-2005 09:02
Retention Time: 17.09
Operator ID: 917

4-Nitrophenol CAS Number 100-02-7 Area = 118081 Manually integrated



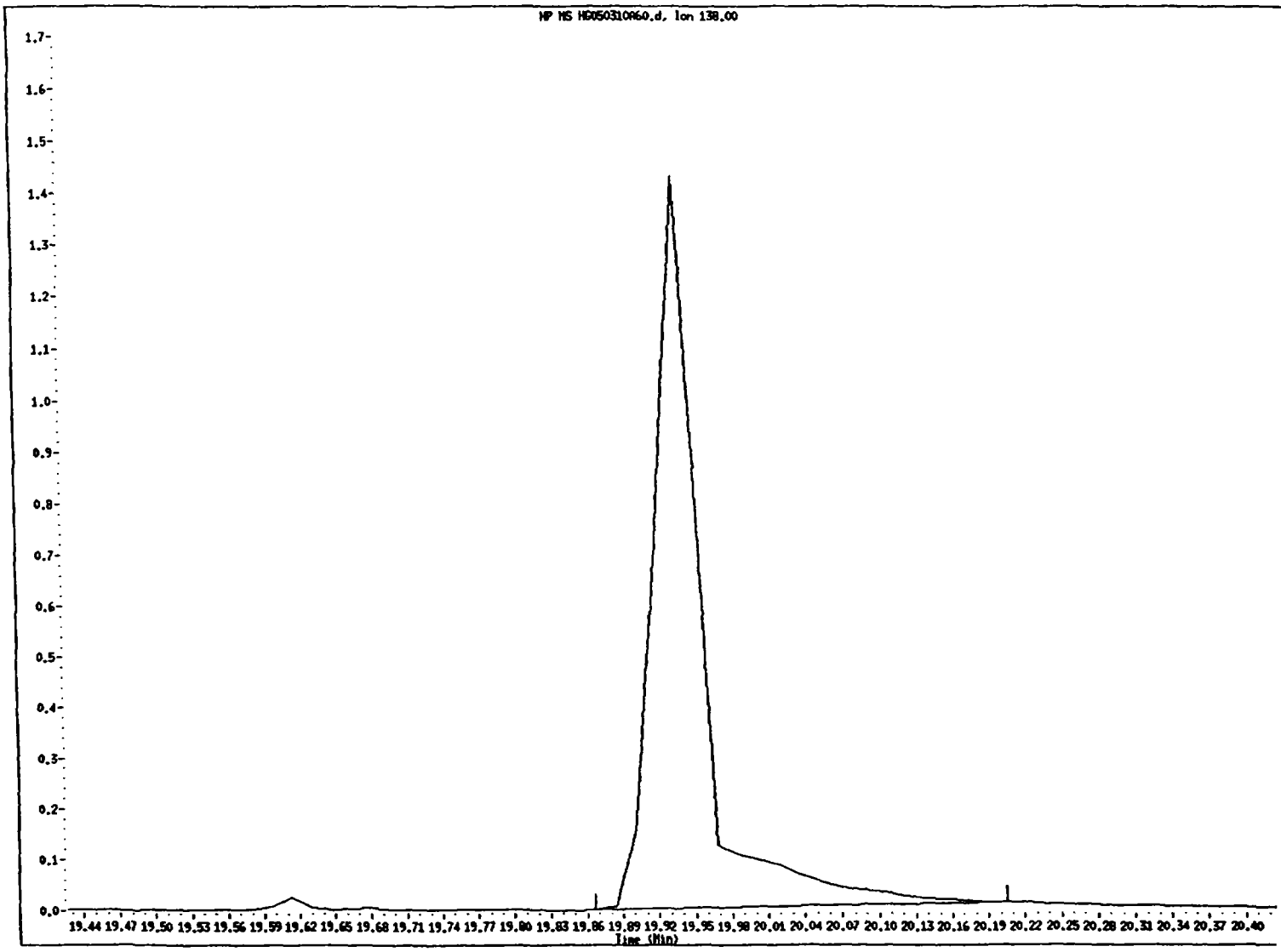
File name: /chem/5972hp60.i/DF050310A60.b/HG050310A60.d
Client ID: SSTD020V0
Instrument ID: 5972hp60.i
Injection Date and Time: 10-MAR-2005 09:02
Retention Time: 19.21
Operator ID: 917

[illegible] CAS Number 86-73-7 Area = 372656 Manually integrated



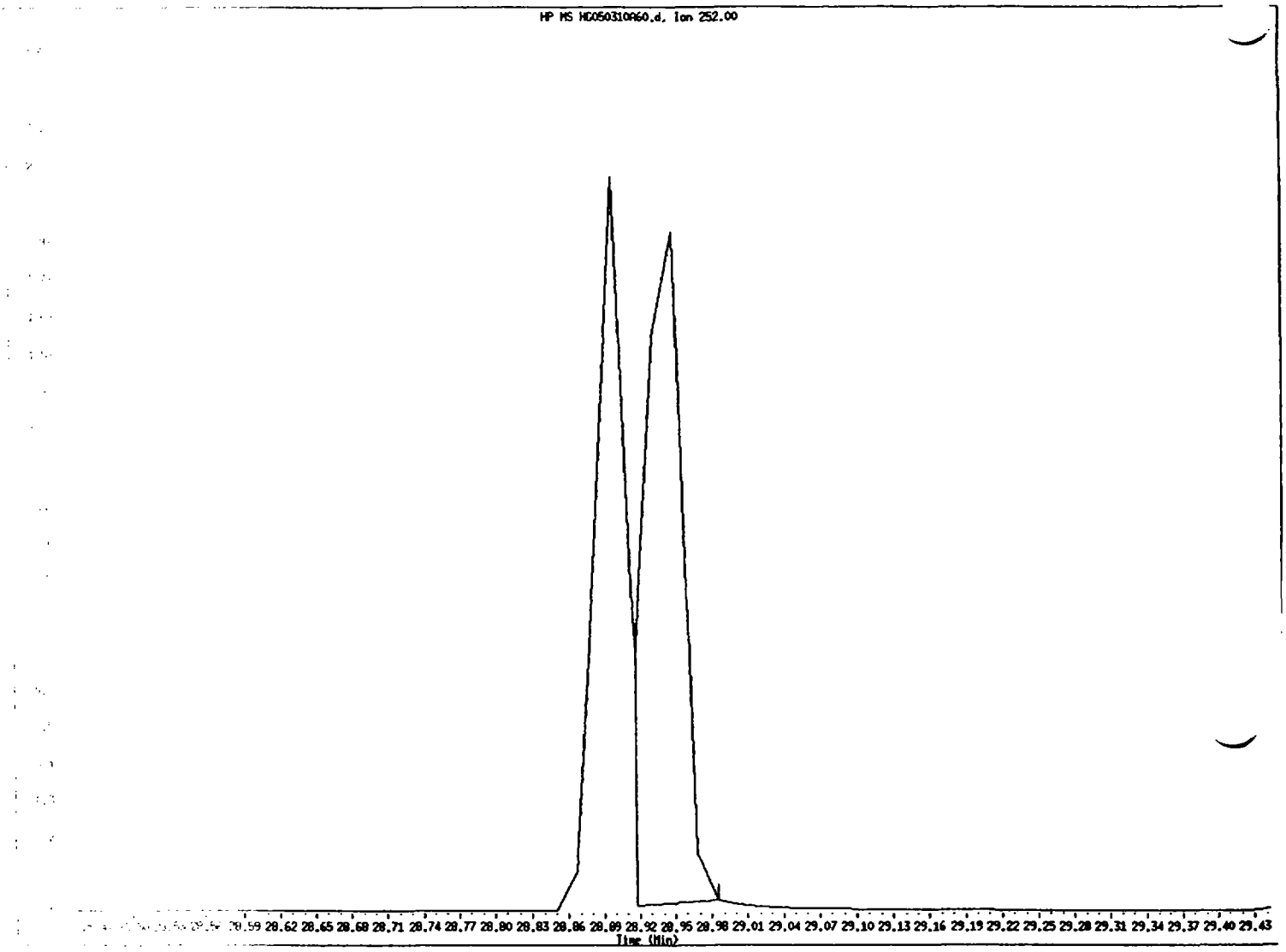
[illegible]m/5972hp60.i/DF050310A60.b/HG050310A60.d
[illegible]020V0
[illegible] 5972hp60.i
[illegible] and Time: 10-MAR-2005 09:02
Retention Time: 19.61
Operator ID: 917

4-Nitroaniline CAS Number 100-01-6 Area = 377768 Manually integrated



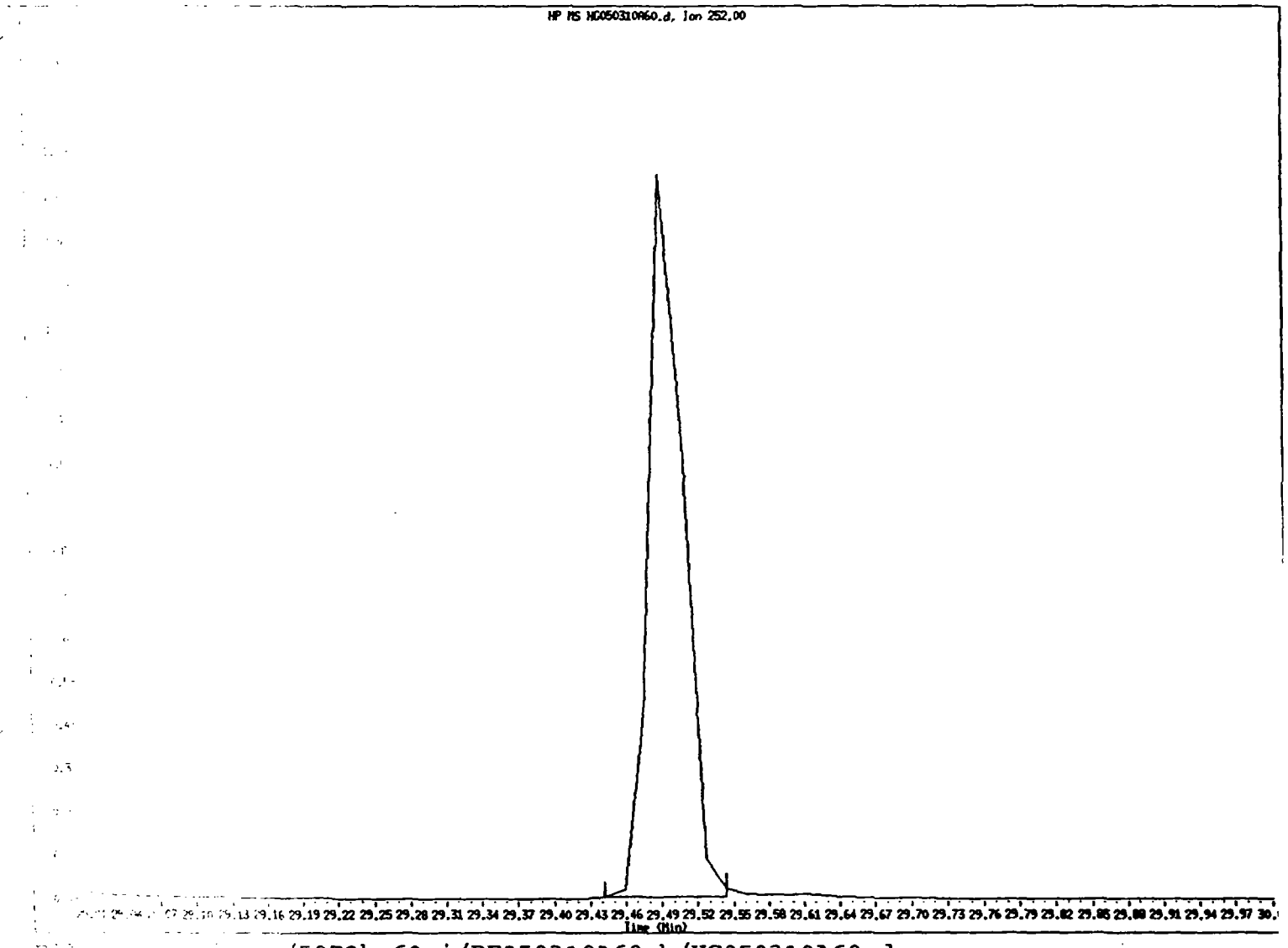
File name: /chem/5972hp60.i/DF050310A60.b/HG050310A60.d
Client ID: SSTD020V0
Instrument ID: 5972hp60.i
Injection Date and Time: 10-MAR-2005 09:02
Retention Time: 19.93
Operator ID: 917

[illegible]oranthene CAS Number 207-08-9 Area = 418642 User selected hit



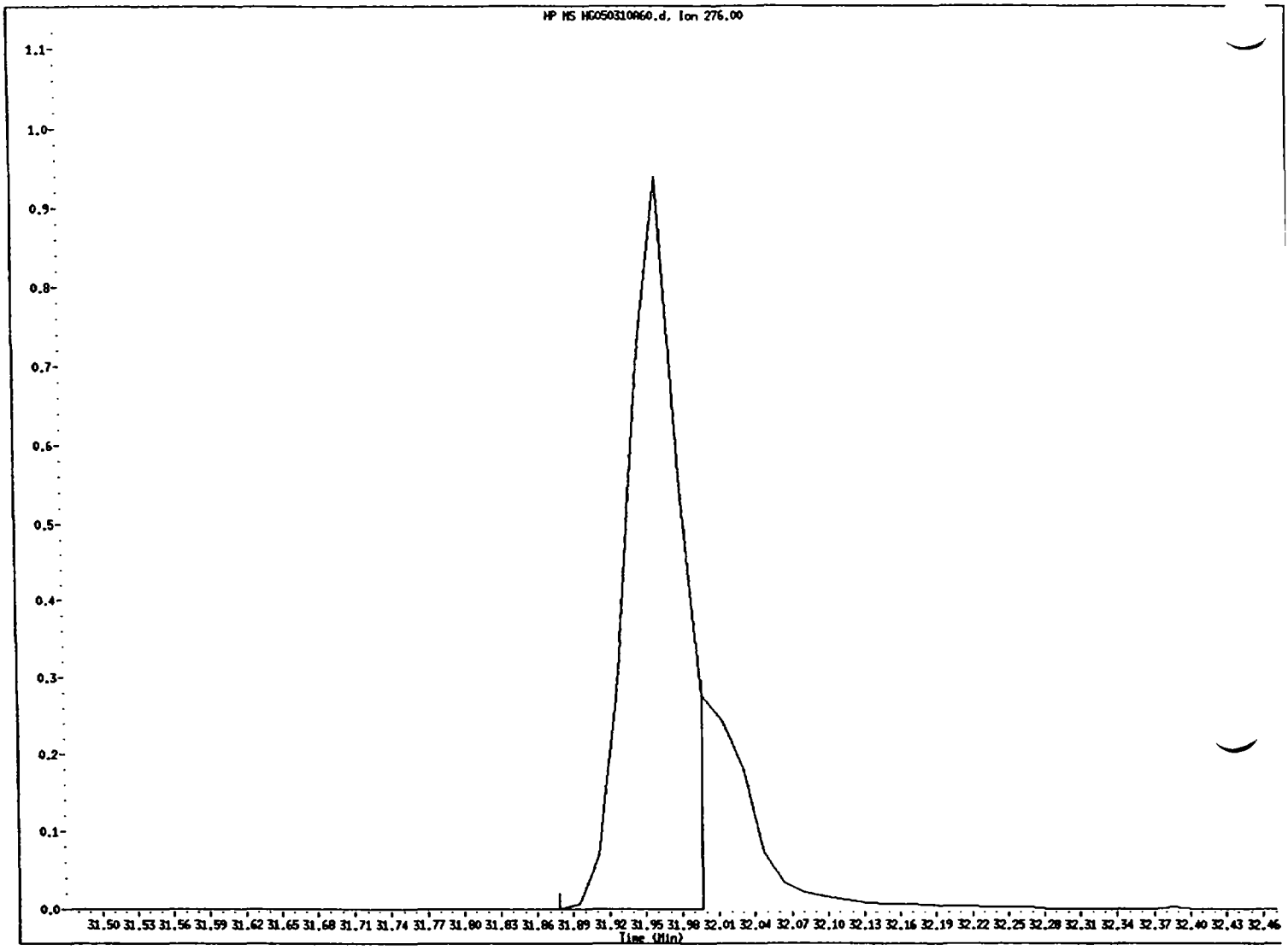
[illegible]em/5972hp60.i/DF050310A60.b/HG050310A60.d
[illegible]STD020V0
[illegible]D: 5972hp60.i
[illegible]te and Time: 10-MAR-2005 09:02
[illegible]Time: 28.95
[illegible]: 917

pyrene CAS Number 50-32-8 Area = 327980 User selected hit



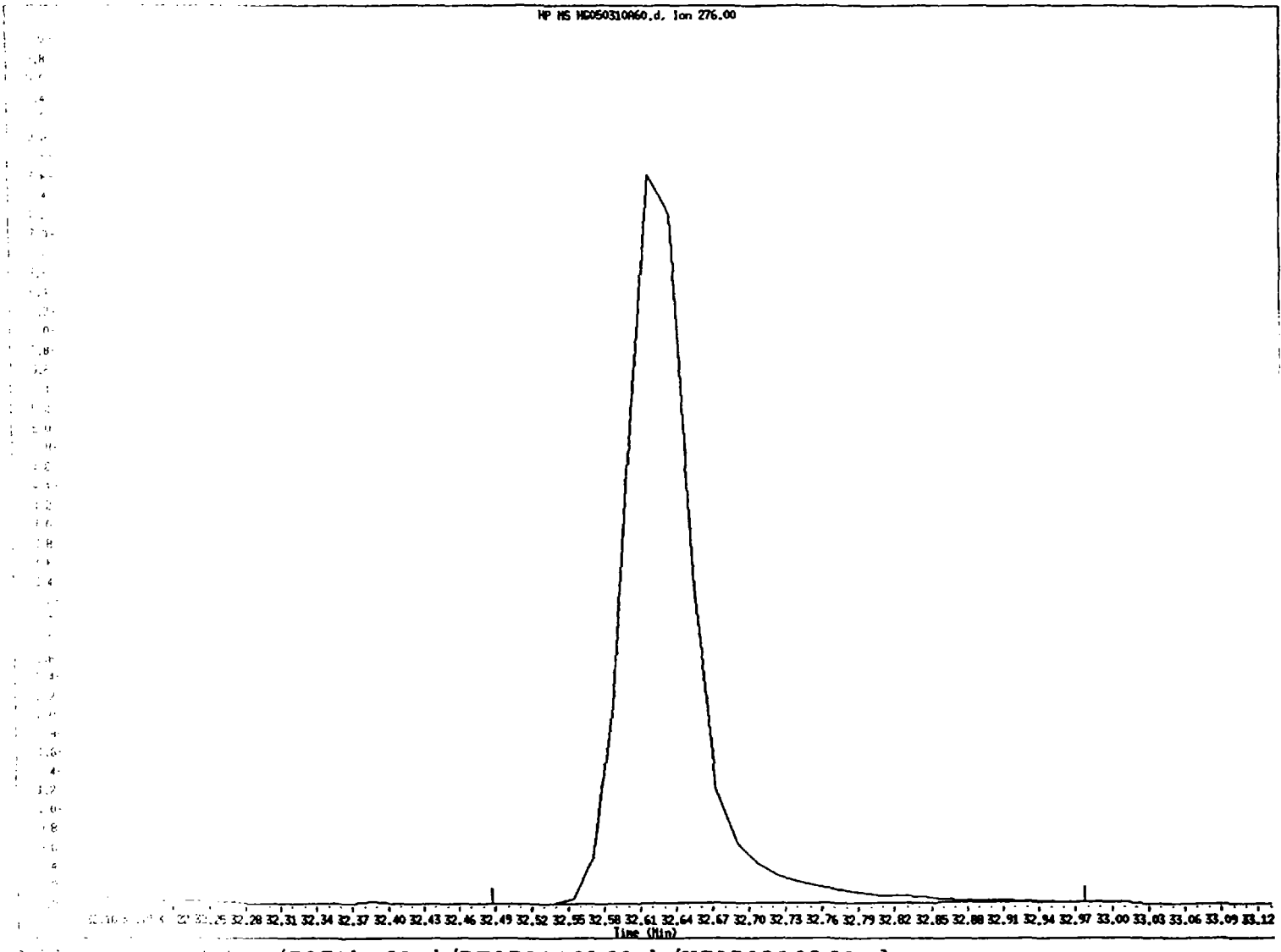
nem/5972hp60.i/DF050310A60.b/HG050310A60.d
D020V0
D: 5972hp60.i
Date and Time: 10-MAR-2005 09:02
Time: 29.49
ID: 917

Indeno(1,2,3-cd)pyrene CAS Number 193-39-5 Area = 290354 Manually integrated



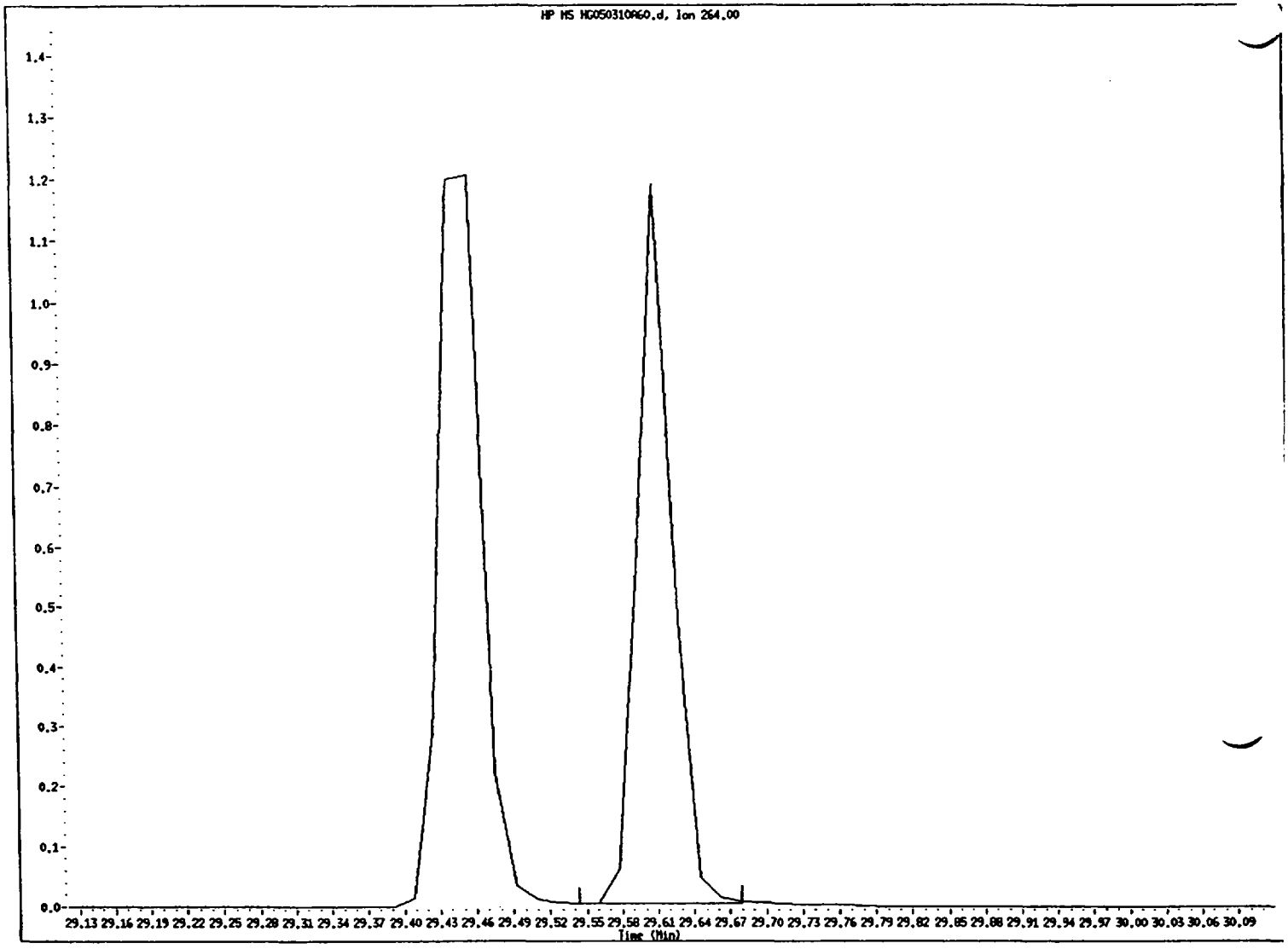
File name: /chem/5972hp60.i/DF050310A60.b/HG050310A60.d
Client ID: SSTD020V0
Instrument ID: 5972hp60.i
Injection Date and Time: 10-MAR-2005 09:02
Retention Time: 31.96
Operator ID: 917

Benzo[ghi]perylene CAS Number 191-24-2 Area = 298091 Manually integrated



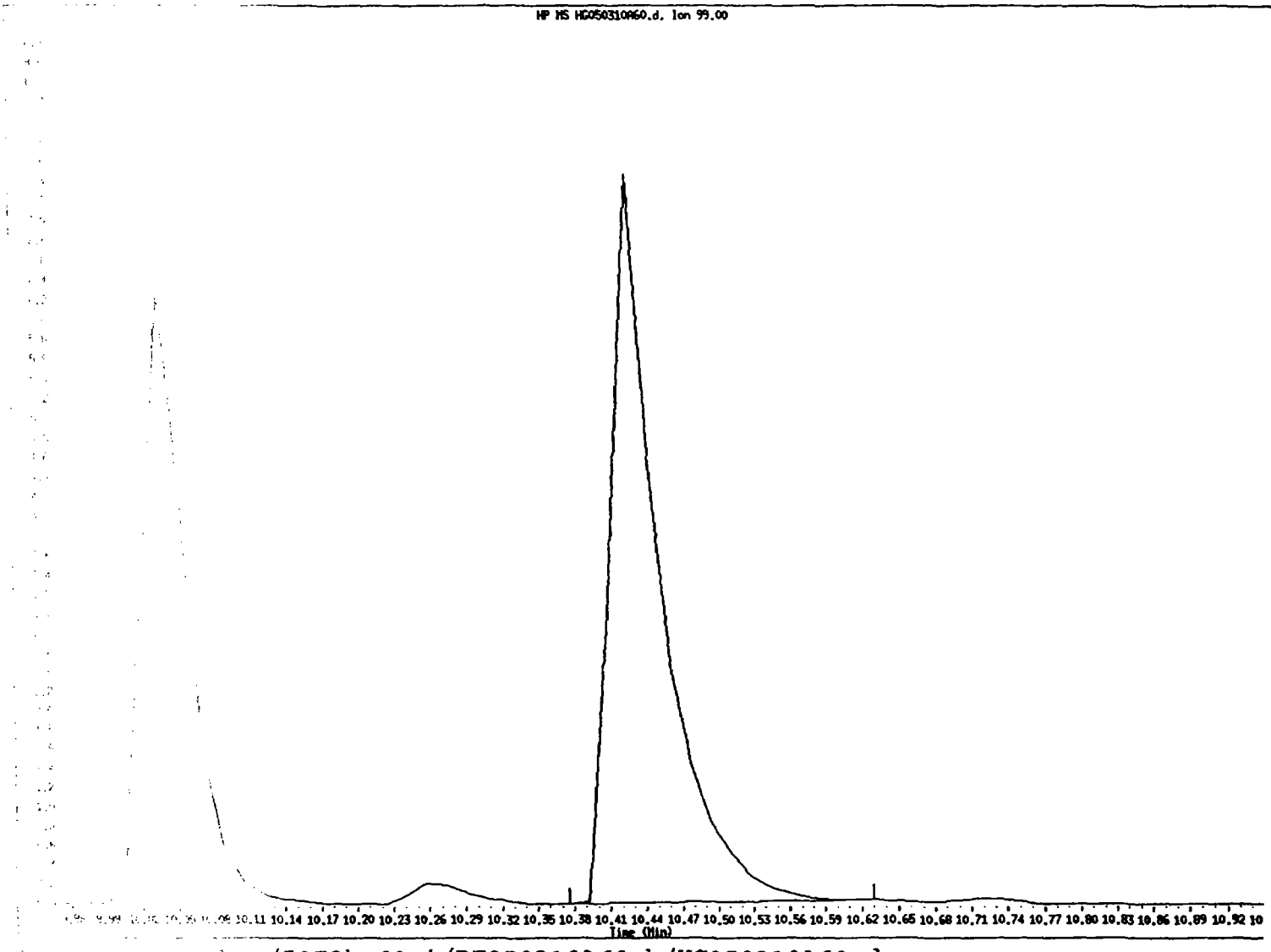
Data Path: /chem/5972hp60.i/DF050310A60.b/HG050310A60.d
Data File: SSTD020V0
Acquisition ID: 5972hp60.i
Data File Date and Time: 10-MAR-2005 09:02
Retention Time: 32.62
Operator ID: 917

Perylene-d12 CAS Number 1520-96-3 Area = 236313 User selected hit



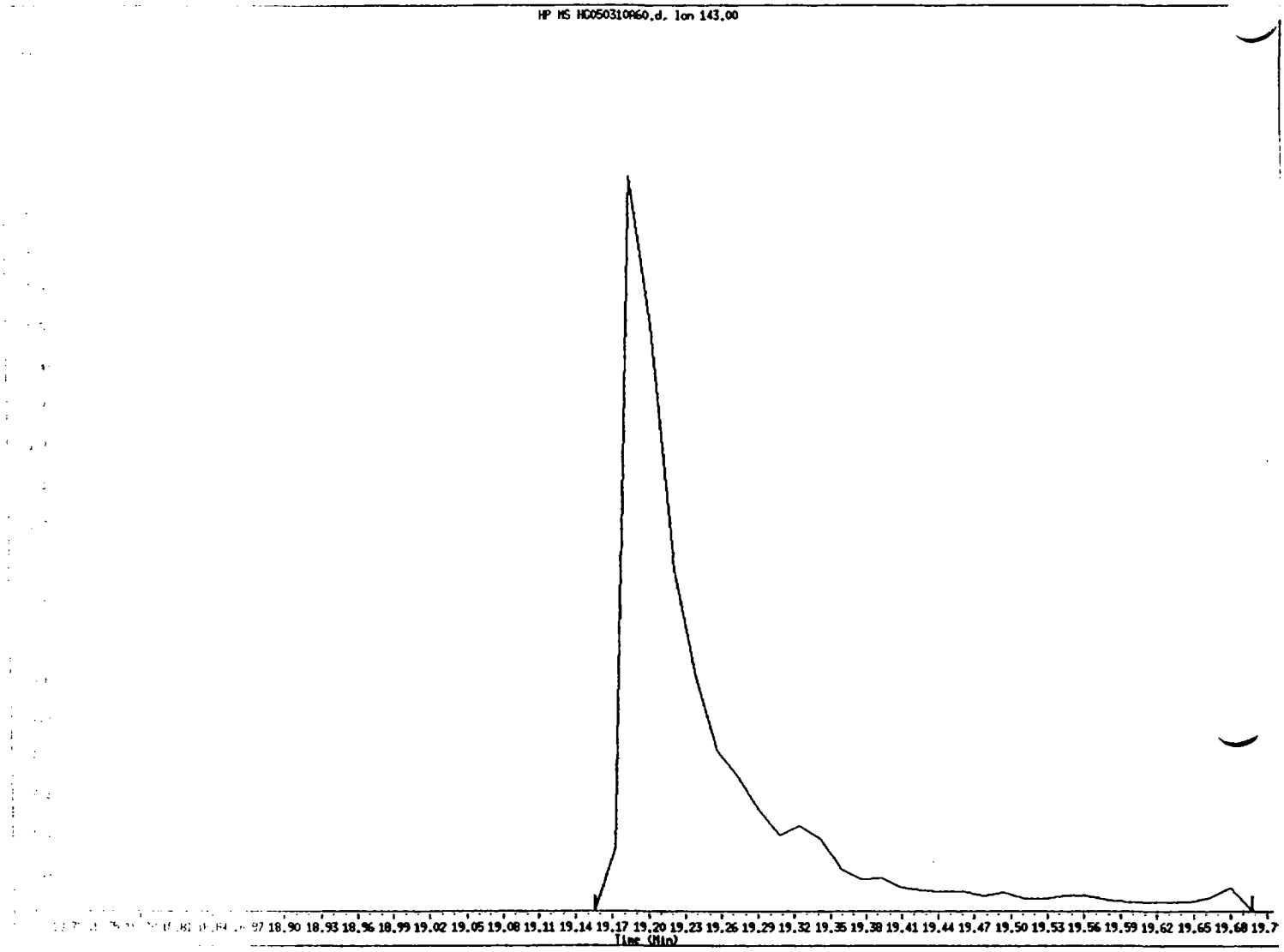
File name: /chem/5972hp60.i/DF050310A60.b/HG050310A60.d
Client ID: SSTD020V0
Instrument ID: 5972hp60.i
Injection Date and Time: 10-MAR-2005 09:02
Retention Time: 29.61
Operator ID: 917

Phenol, 4- CAS Number 4165-62-2 Area = 213329 Manually integrated



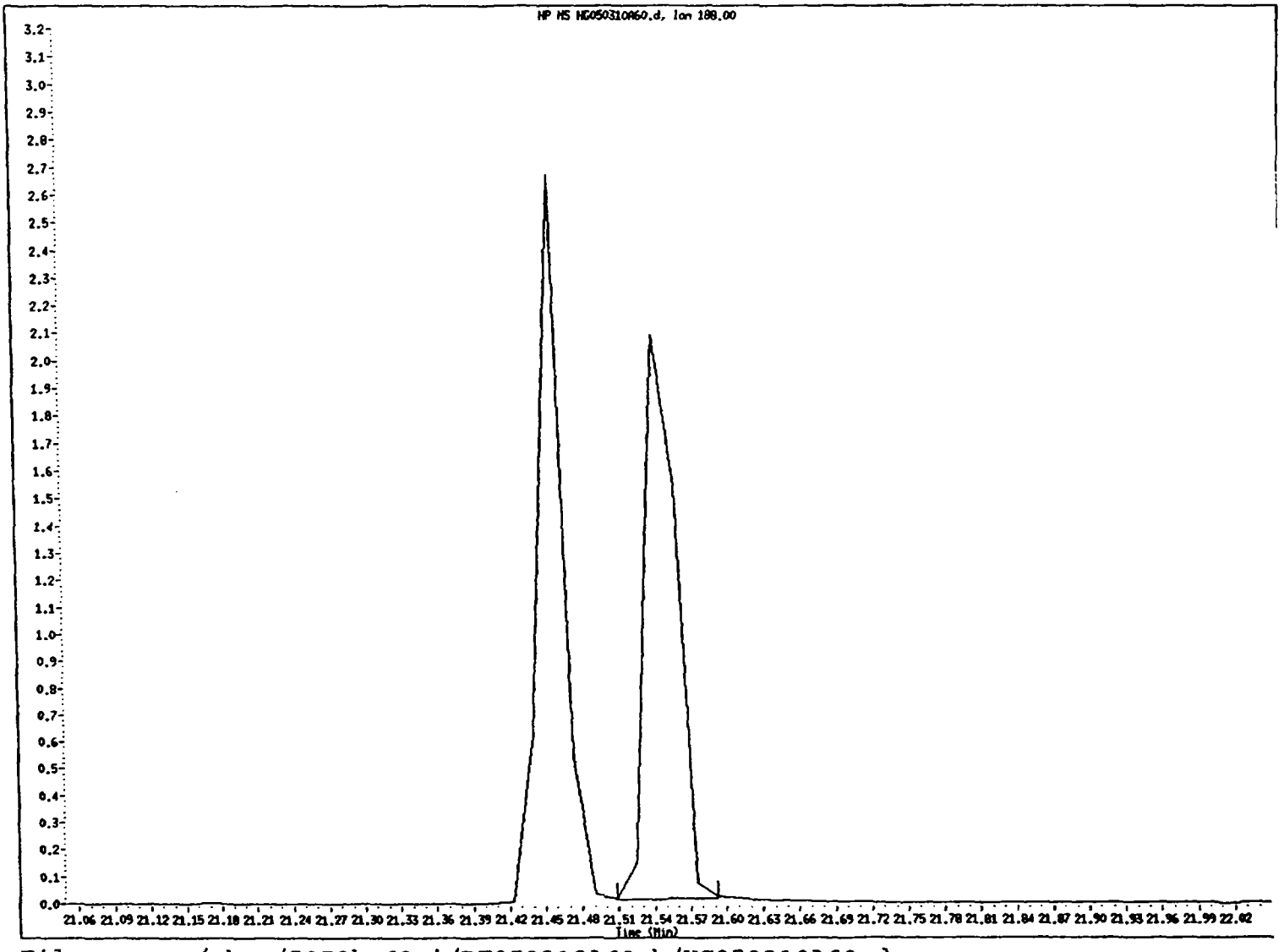
...chem/5972hp60.i/DF050310A60.b/HG050310A60.d
...020V0
...5972hp60.i
...and Time: 10-MAR-2005 09:02
Retention Time: 10.43
Operator ID: 917

d4 CAS Number 93951-79-2 Area = 77061 Manually integrated



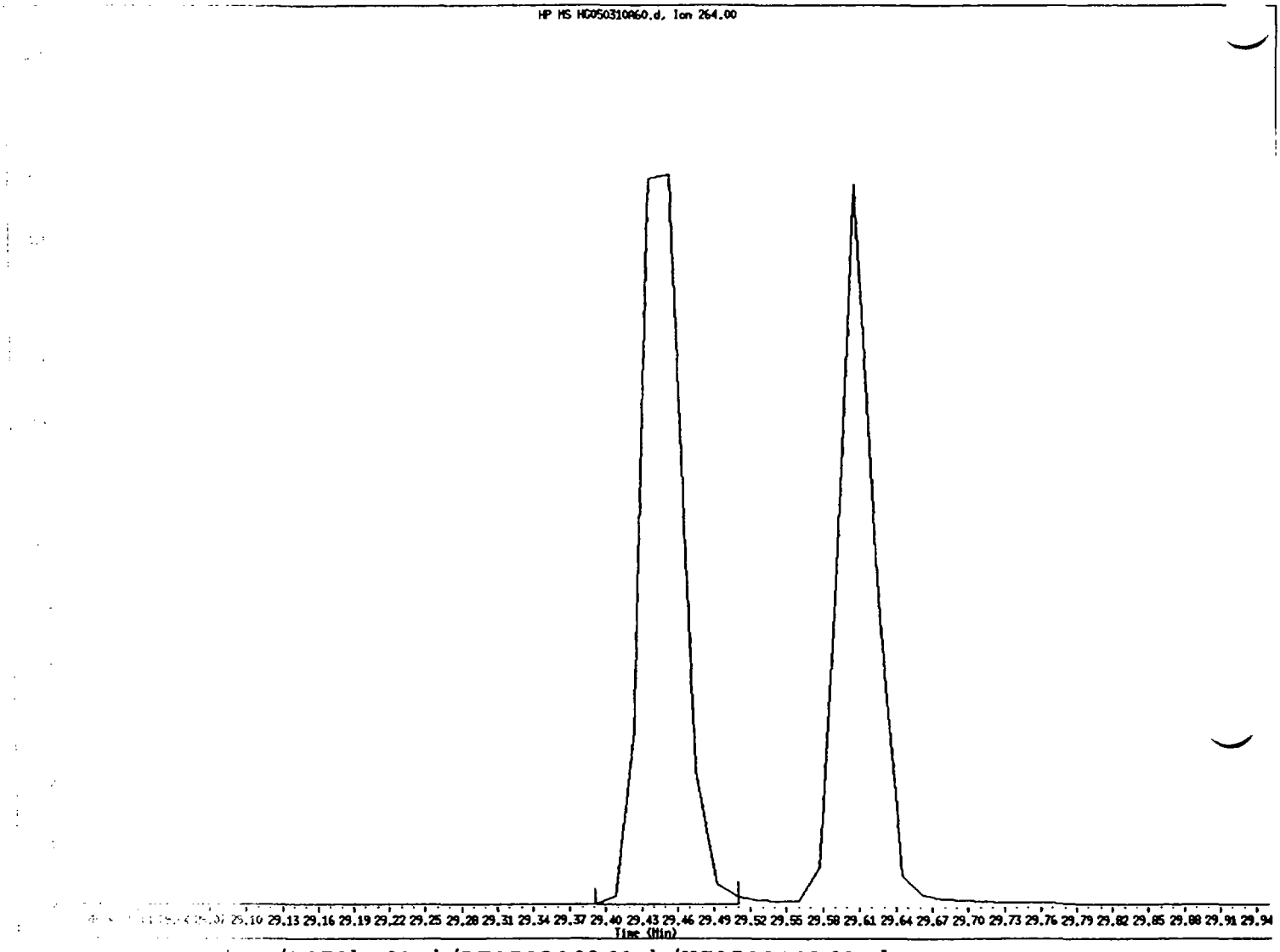
/5972hp60.i/DF050310A60.b/HG050310A60.d
20V0
5972hp60.i
and Time: 10-MAR-2005 09:02
19.19
17

Anthracene-d10 CAS Number 1719-06-8 Area = 385879 User selected hit



File name: /chem/5972hp60.i/DF050310A60.b/HG050310A60.d
Client ID: SSTD020V0
Instrument ID: 5972hp60.i
Injection Date and Time: 10-MAR-2005 09:02
Retention Time: 21.54
Operator ID: 917

[illegible]rene-d12 CAS Number 63466-71-7 Area = 301554 User selected hit

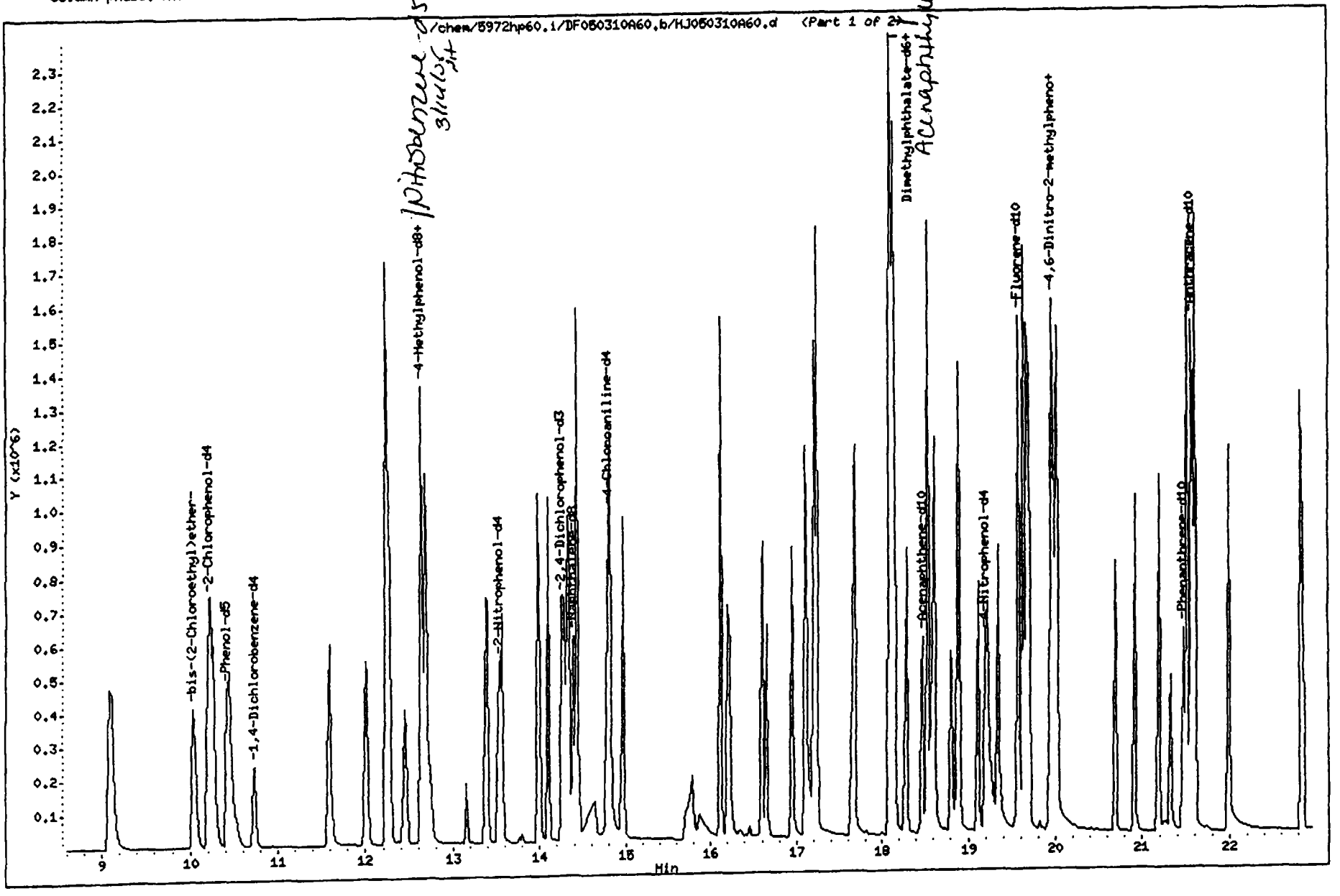


[illegible]hem/5972hp60.i/DF050310A60.b/HG050310A60.d
[illegible]STD020V0
[illegible] 5972hp60.i
[illegible]te and Time: 10-MAR-2005 09:02
[illegible]Time: 29.46
[illegible] 917

Data File: /chem/5972hp60.i/DF050310A60.b/HJ050310A60.d
Date : 10-MAR-2005 11:36
Client ID: SSTD050V0
Sample Info: SSTD050V0:917
Volume Injected (uL): 1.0
Column phase: RTX-5MS

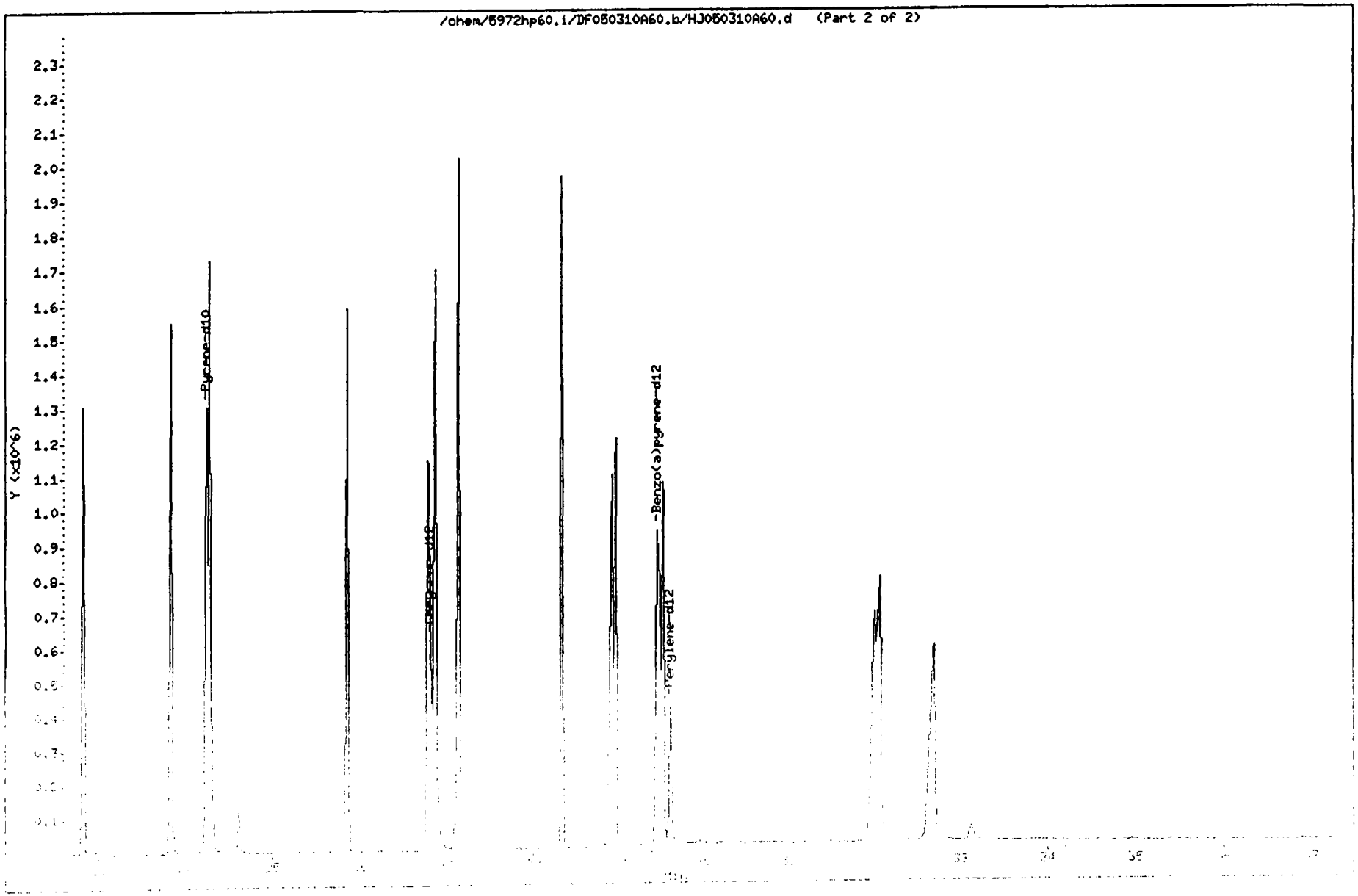
Instrument: 5972hp60.i
Operator: 917
Column diameter: 0.32

COPY CXX31
ORIGINAL DOCUMENTS INCLUDED IN CSF- 33914
SIGNATURE KM DATE 3/15/05



Data File: /chem/5972hp60.i/DF050310A60.b/HJ050310A60.d
Date : 10-MAR-2005 11:36
Client ID: SSTD050V0
Sample Info: SSTD050V0:917
Volume Injected (uL): 1.0
Column phase: RTX-5MS

Instrument: 5972hp60.i
Operator: 917
Column diameter: 0.32



Data ... chem/5972hp60.i/DF050310A60.b/HJ050310A60.d
Report Date: 4-Mar-2005 09:43

CompuChem

OLC03.0 + REVISIONS QUANT AND RATIO REPORT

Data ... chem/5972hp60.i/DF050310A60.b/HJ050310A60.d
Data Smp ID: SSTD050V0 Client Smp ID: SSTD050V0
Inj Date: 30-MAR-2005 11:36
Operator: ST Inst ID: 5972hp60.i
Inj Info: SSTD050V0:917
Misc Info:
Comment:
Method ... chem/5972hp60.i/DF050310A60.b/OLC03v5.m
Method Info: 4-Mar-2005 09:41 henning Quant Type: ISTD
Cal Date: 30-MAR-2005 09:02 Cal File: HG050310A60.d
Calibration Sample, Level: 4
Vial: 1 Sample Type: 0000
Data Type: DE RTE Compound Sublist: OLC03.sub
Sample Info: 3.50

Formula: Amt * DF * Vt/(Vo * Vi) * CpndVariable
1000.00000 Volume of final extract (uL)
1000.00000 Volume of sample extracted (mL)
1.00000 Volume injected (uL)

Local Compound Variable

	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)	SIMILARITY
...d4	152	10.737	10.720	(1.000)	122643	20.0000		
... B	136	14.391	14.391	(1.000)	490282	20.0000		7932
...	164	18.468	18.451	(1.000)	271457	20.0000		7590
...	188	21.463	21.462	(1.000)	399616	20.0000		8533
... -12	240	26.809	26.808	(1.000)	321400	20.0000		7615
...-d12	264	29.617	29.617	(1.000)	255596	20.0000		7232(H)
... d5	99	10.416	10.449	(0.970)	548147	50.0000	51	7060
...ether-d8	67	10.043	10.043	(0.935)	337748	50.0000	50	9034
...phenol-d6	132	10.213	10.229	(0.951)	425446	50.0000	50	7733
... -d8	113	12.632	12.648	(1.176)	427379	50.0000	50	7433
... -d	128	12.632	12.631	(0.878)	219974	50.0000	50	8786
...-d5	143	13.528	13.528	(0.940)	243008	50.0000	50	8920
...-phenol-d3	165	14.256	14.289	(0.991)	378698	50.0000	51	7420
...-d4	131	14.797	14.780	(1.028)	512623	50.0000	51	8872
...-d6	166	18.096	18.079	(0.980)	896471	50.0000	49	9354
... -d	160	18.096	18.079	(0.980)	1236237	50.0000	49	9134
...-d4	143	19.196	19.212	(1.039)	168456	50.0000	50	8652
...	176	19.568	19.551	(1.060)	738900	50.0000	50	9414
...-methylphenol-d2	200	19.957	19.923	(0.930)	187197	50.0000	54	7863

3/14/06 DLT

Data File: /chem/5972hp60.i/DF050310A60.b/HJ050310A60.d
Report Date: 14-Mar-2005 09:43

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)	SIMILARITY
$ 20 Anthracene-d10	188	21.564	21.547	(1.005)	979892	50.0000	49	9237(H)
$ 21 Pyrene-d10	212	24.254	24.237	(0.905)	1018614	50.0000	48	9260
$ 22 Benzo(a)pyrene-d12	264	29.465	29.448	(1.000)	798869	50.0000	50	8288(H)
23 Benzaldehyde	77	9.096	9.096	(0.847)	423177	50.0000	49	7718
24 Phenol	94	10.449	10.483	(0.973)	574676	50.0000	51	7909
25 bis(2-Chloroethyl)ether	93	10.230	10.212	(0.953)	401428	50.0000	49	8641
26 2-Chlorophenol	128	10.263	10.280	(0.956)	426884	50.0000	50	7979
27 2-Methylphenol	108	12.243	12.242	(1.140)	407159	50.0000	50	
28 2,2'-oxybis(1-Chloropropane)	45	12.006	12.005	(1.118)	830643	50.0000	50	
30 Acetophenone	105	12.243	12.242	(1.140)	552036	50.0000	49	8975
31 4-Methylphenol	108	12.700	12.699	(1.183)	444071	50.0000	50	
32 N-Nitroso-di-n-propylamine	70	12.446	12.428	(1.159)	254592	50.0000	50	7202
33 Hexachloroethane	117	12.277	12.276	(1.143)	196409	50.0000	49	8581
34 Nitrobenzene	77	12.683	12.682	(0.881)	553083	50.0000	50	8227
35 Isophorone	82	13.393	13.359	(0.931)	814197	50.0000	49	7830
36 2-Nitrophenol	139	13.562	13.562	(0.942)	255713	50.0000	50	8857
37 2,4-Dimethylphenol	107	13.985	13.985	(0.972)	381571	50.0000	50	8757
38 bis(2-Chloroethoxy)methane	93	14.104	14.086	(0.980)	581603	50.0000	50	8470
39 2,4-Dichlorophenol	162	14.290	14.323	(0.993)	374597	50.0000	51	
40 Naphthalene	128	14.442	14.425	(1.004)	1200681	50.0000	49	8498
41 4-Chloroaniline	127	14.814	14.814	(1.029)	528977	50.0000	50	8760
42 Hexachlorobutadiene	225	14.966	14.966	(1.040)	178477	50.0000	51	9180
43 Caprolactam	113	15.779	15.626	(1.096)	149791	50.0000	49	8531(M)
44 4-Chloro-3-methylphenol	107	16.201	16.201	(1.126)	380729	50.0000	50	9055
45 2-Methylnaphthalene	142	16.117	16.099	(1.120)	799357	50.0000	50	
46 1,2,4,5 Tetrachlorobenzene	216	16.608	16.590	(0.899)	365256	50.0000	51	9129
47 Hexachlorocyclopentadiene	237	16.658	16.658	(0.902)	169844	50.0000	66	8195
49 2,4,6-Trichlorophenol	196	16.946	16.945	(0.918)	249111	50.0000	51	
50 2,4,5-Trichlorophenol	196	17.098	17.098	(0.926)	555577	100.000	100	
51 1,1'-Biphenyl	154	17.233	17.233	(0.933)	927024	50.0000	50	8398
52 2-Chloronaphthalene	162	17.200	17.199	(0.931)	753839	50.0000	50	8776
53 2-Nitroaniline	65	17.673	17.639	(0.957)	524028	100.000	100	7922
54 Dimethylphthalate	163	18.147	18.130	(0.983)	870685	50.0000	50	8215
55 2,6-Dinitrotoluene	165	18.282	18.265	(0.990)	232034	50.0000	51	8180
56 Acenaphthylene	152	18.130	18.113	(0.982)	1283437	50.0000	50	9166
57 3-Nitroaniline	138	18.604	18.569	(1.007)	487950	100.000	100	7668
58 Acenaphthene	153	18.536	18.519	(1.004)	779331	50.0000	50	8631
59 2,4-Dinitrophenol	184	18.807	18.789	(1.018)	274194	100.000	130	7963(A)
60 4-Nitrophenol	109	19.213	19.229	(1.040)	146802	100.000	100	
61 Dibenzofuran	168	18.891	18.874	(1.023)	1139432	50.0000	50	8439
62 2,4-Dinitrotoluene	165	19.111	19.094	(1.035)	301114	50.0000	51	8401
63 Diethylphthalate	149	19.670	19.652	(1.065)	881769	50.0000	48	9134
64 Fluorene	166	19.636	19.618	(1.063)	938194	50.0000	51	0(M)
65 4-Chlorophenyl-phenylether	204	19.687	19.686	(1.066)	371584	50.0000	49	7786
66 4-Nitroaniline	138	19.957	19.923	(1.081)	433719	100.000	96	(M)
67 4,6-Dinitro-2-methylphenol	198	19.974	19.940	(0.931)	381312	100.000	110	
68 N-nitrosodiphenylamine	169	20.008	19.991	(0.932)	604603	50.0000	47	8852

3/14/05 DH

Data File: /chem/5972hp60.i/DF050310A60.b/HJ050310A60.d
Report Date: 14-Mar-2005 09:43

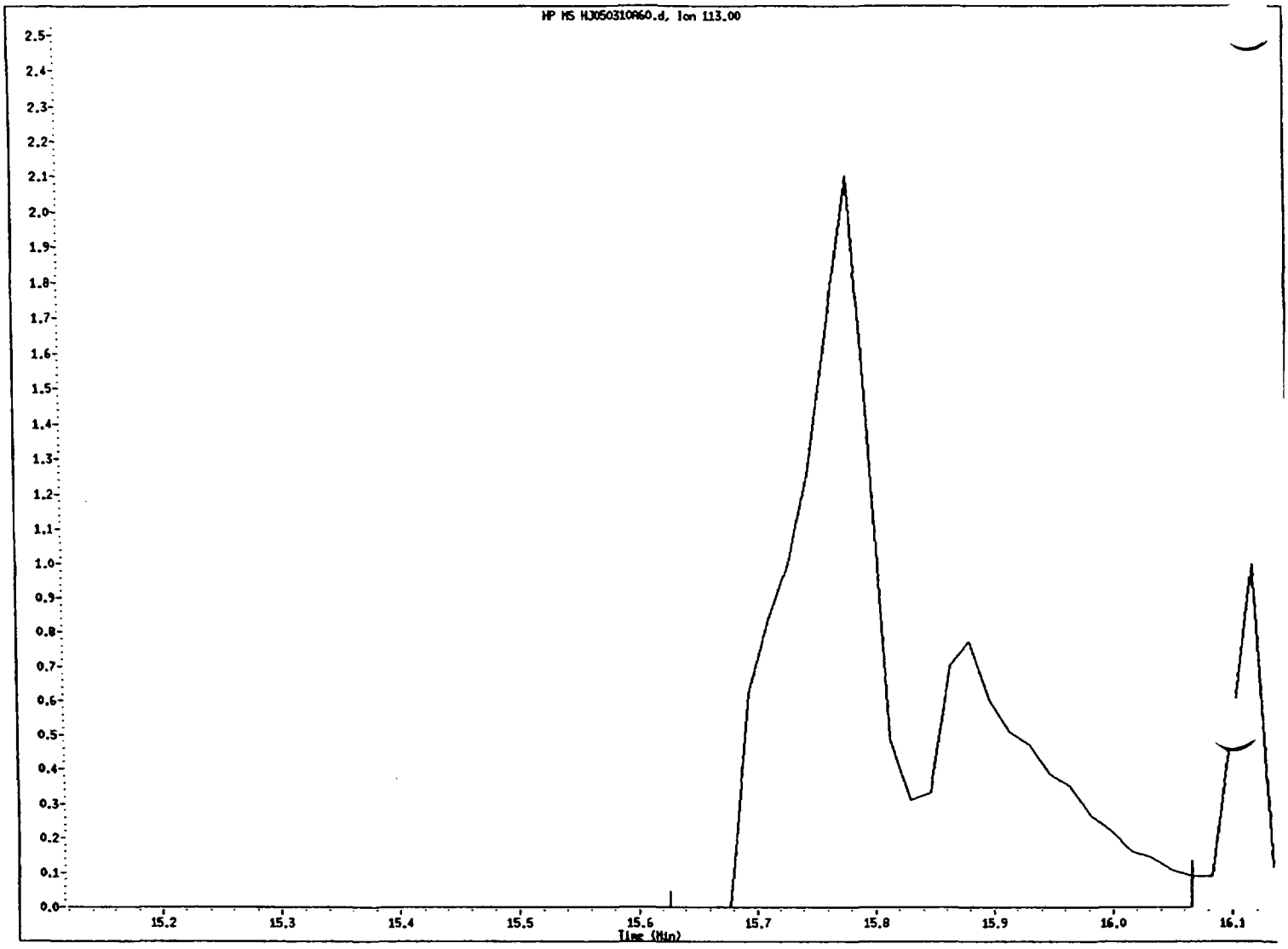
	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)	SIMILARITY
	----	--	------	------	--------	-------	-------	----------
[illegible]ylether	248	20.702	20.684	(0.965)	207096	50.0000	51	9382
[illegible]	284	20.922	20.904	(0.975)	244719	50.0000	51	9079
[illegible]	200	21.192	21.175	(0.987)	201736	50.0000	49	8697
[illegible]	266	21.328	21.327	(0.994)	131467	50.0000	58	8624
[illegible]	178	21.514	21.496	(1.002)	1131254	50.0000	50	
[illegible]	178	21.598	21.581	(1.006)	1063505	50.0000	48	
[illegible]	149	22.833	22.833	(1.064)	1435010	50.0000	48	9140
[illegible]	202	23.848	23.831	(1.111)	1100111	50.0000	50	
[illegible]	202	24.288	24.271	(0.906)	1095582	50.0000	46	
[illegible]	149	25.861	25.844	(0.965)	658313	50.0000	48	8445
[illegible]ine	252	26.860	26.859	(1.002)	214332	50.0000	43	8834
[illegible]halate	149	27.130	27.113	(1.012)	993808	50.0000	49	9165
[illegible]	228	26.792	26.775	(0.999)	995642	50.0000	50	
[illegible]	228	26.877	26.859	(1.003)	919532	50.0000	49	
[illegible]	149	28.331	28.331	(0.962)	1668705	50.0000	47	9421
[illegible]ene	252	28.924	28.889	(0.982)	1068201	50.0000	48	
[illegible]	252	28.974	28.940	(0.983)	1090038	50.0000	51	(H)
[illegible]	252	29.533	29.498	(1.002)	887741	50.0000	50	8859 (H)
[illegible]ene	276	32.003	31.968	(1.081)	860853	50.0000	55	0 (M)
[illegible]ene	278	32.053	32.036	(1.088)	806526	50.0000	54	8388
[illegible]ylene	276	32.679	32.628	(1.109)	798110	50.0000	51	8347

[illegible] Legend

A [illegible] compound detected but, quantitated amount [illegible] maximum amount.
[illegible] response manually integrated.
[illegible] selected an alternate compound hit.

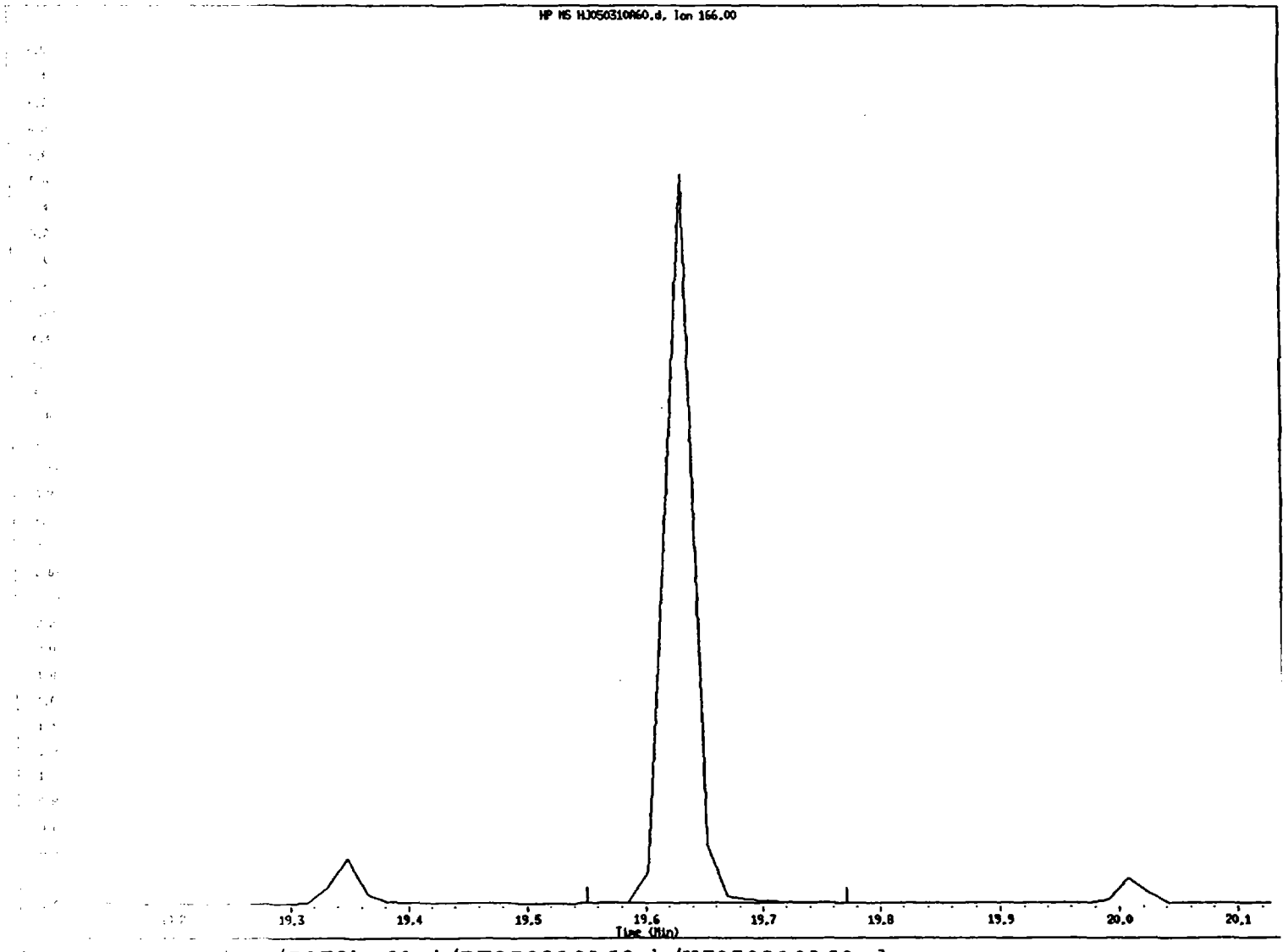
3/14/05 JH

Caprolactam CAS Number 105-60-2 Area = 149791 Manually integrated



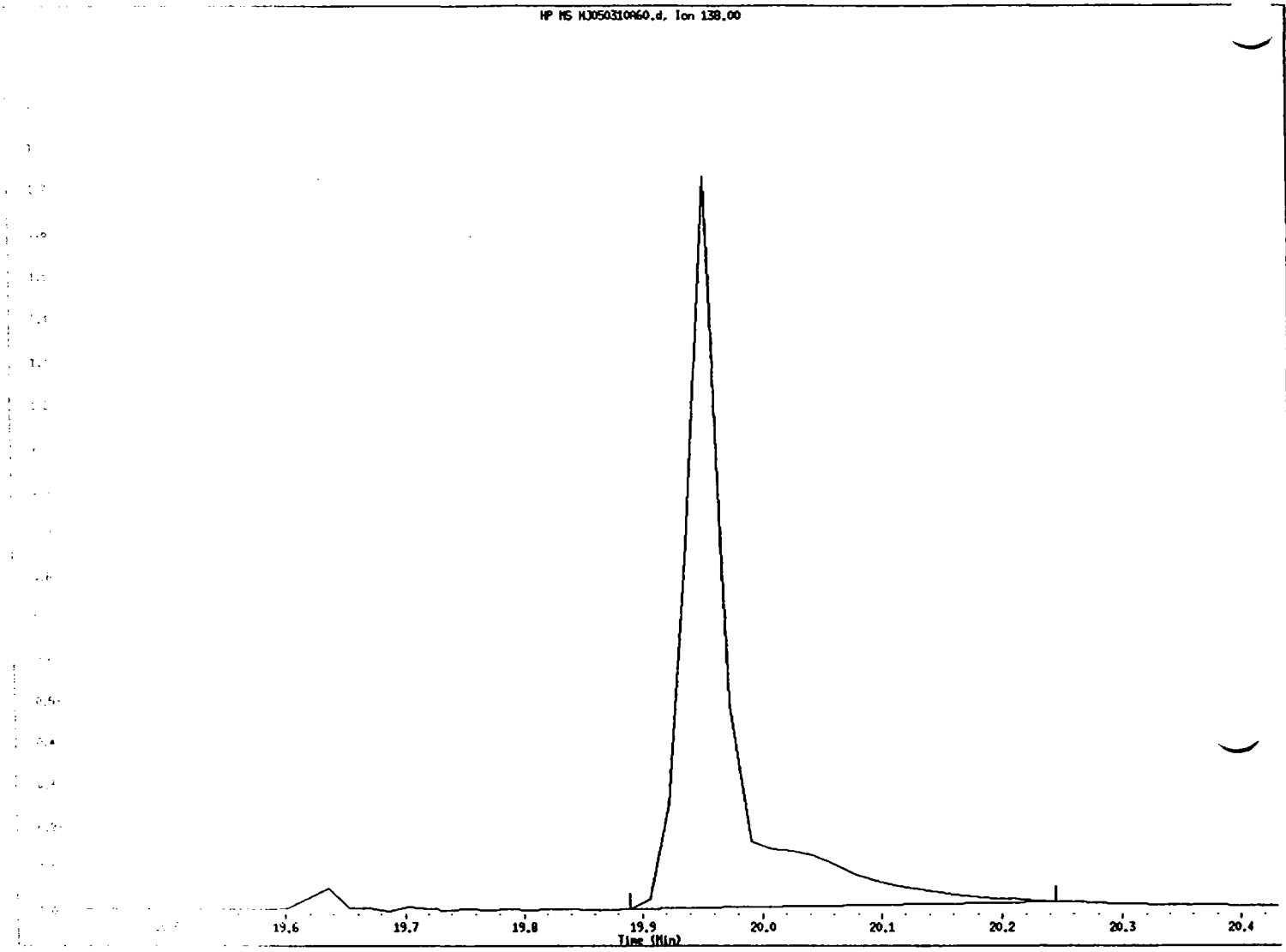
File name: /chem/5972hp60.i/DF050310A60.b/HJ050310A60.d
Client ID: SSTD050V0
Instrument ID: 5972hp60.i
Injection Date and Time: 10-MAR-2005 11:36
Retention Time: 15.78
Operator ID: 917

[illegible] CAS Number 86-73-7 Area = 938194 Manually integrated



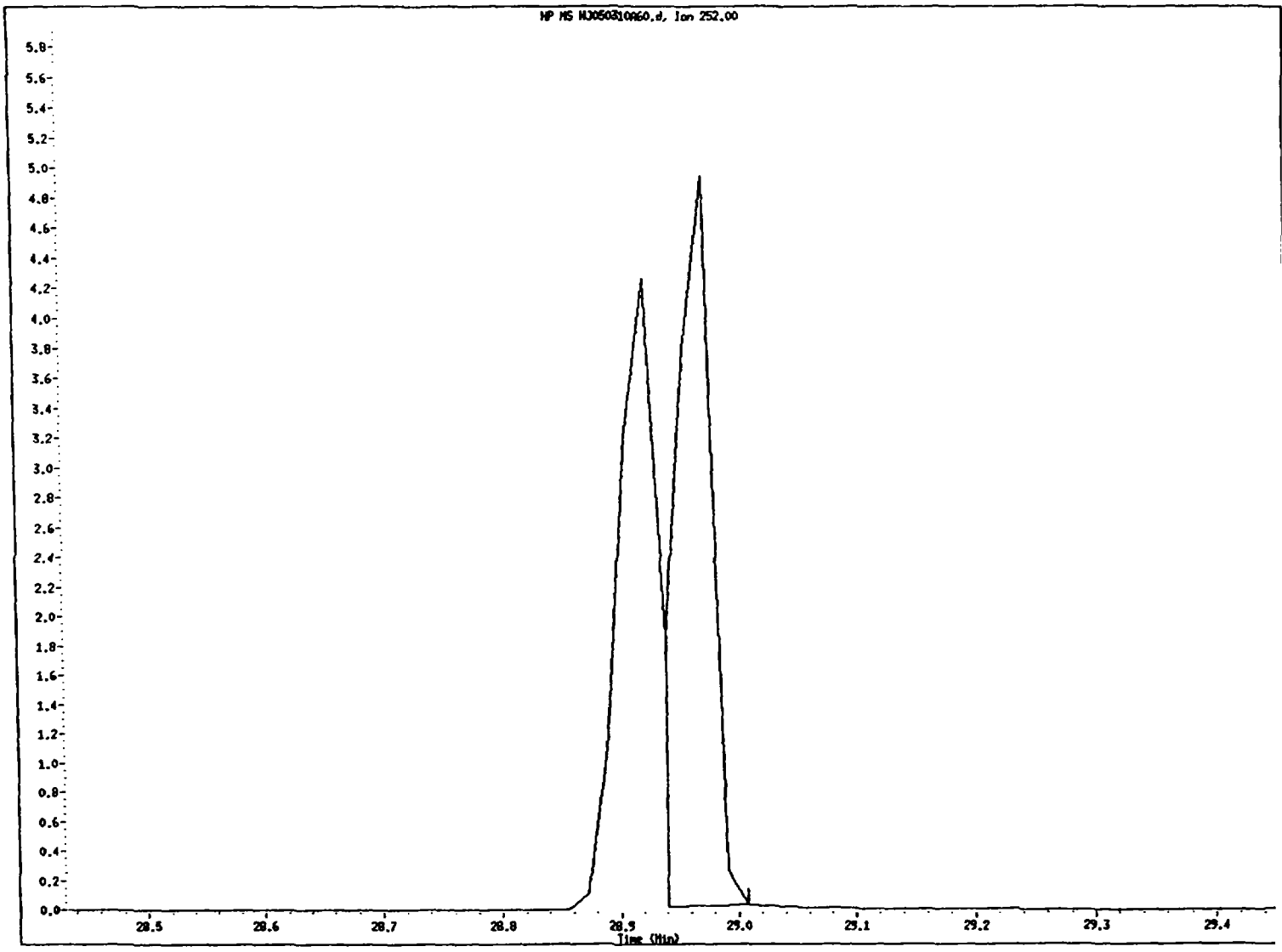
[illegible]/5972hp60.i/DF050310A60.b/HJ050310A60.d
[illegible]DF050V0
[illegible] 5972hp60.i
[illegible] and Time: 10-MAR-2005 11:36
[illegible] Time: 19.64
[illegible] ID: 917

4 Nitroaniline CAS Number 100-01-6 Area = 433719 Manually integrated



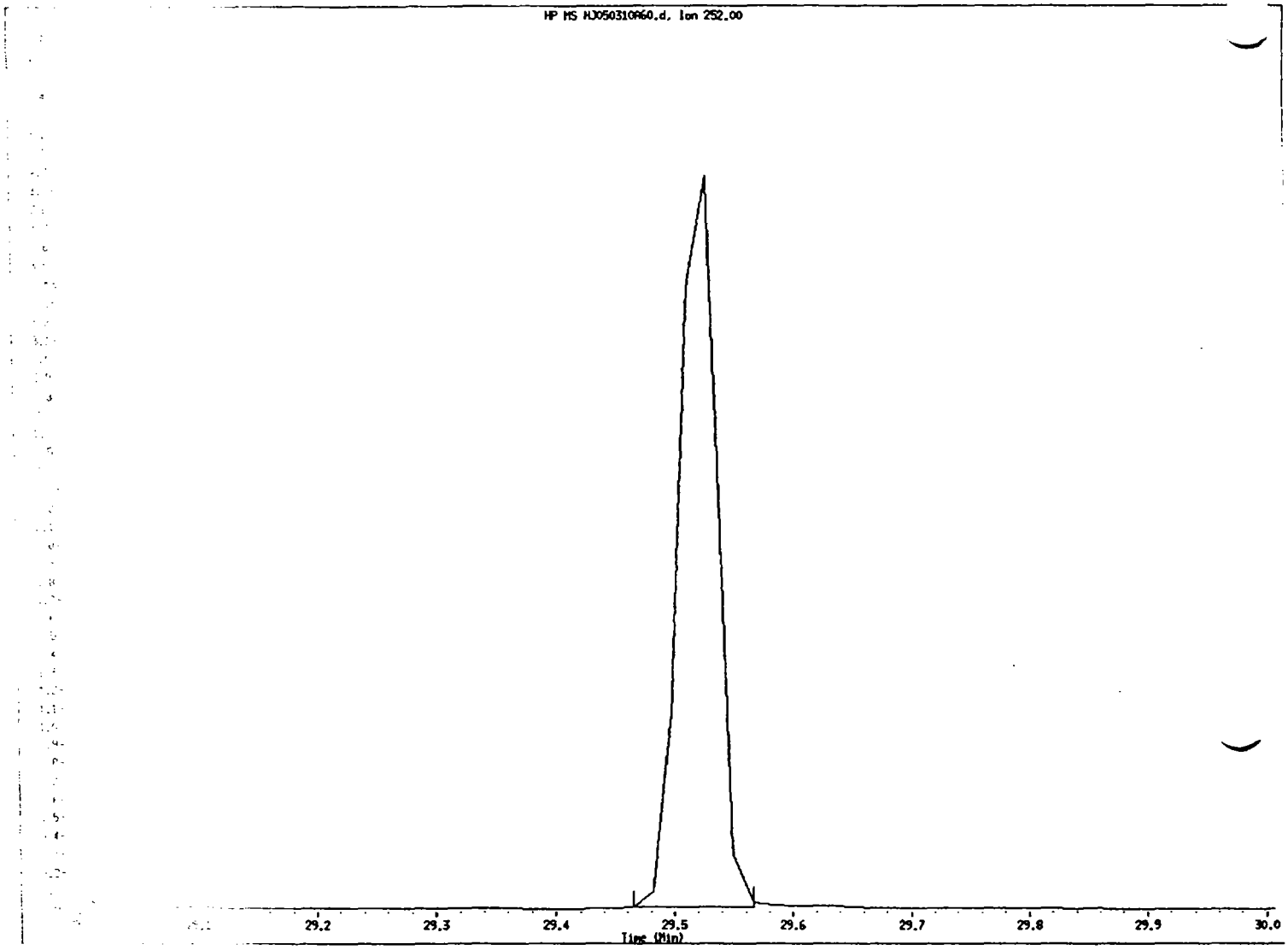
Data Path: C:\msdchem/5972hp60.i/DF050310A60.b/HJ050310A60.d
Client ID: 5972050V0
Instrument ID: 5972hp60.i
Injection Date and Time: 10-MAR-2005 11:36
Retention Time: 19.96
Operator ID: 917

Benzo(k)fluoranthene CAS Number 207-08-9 Area = 1090038 User selected hit



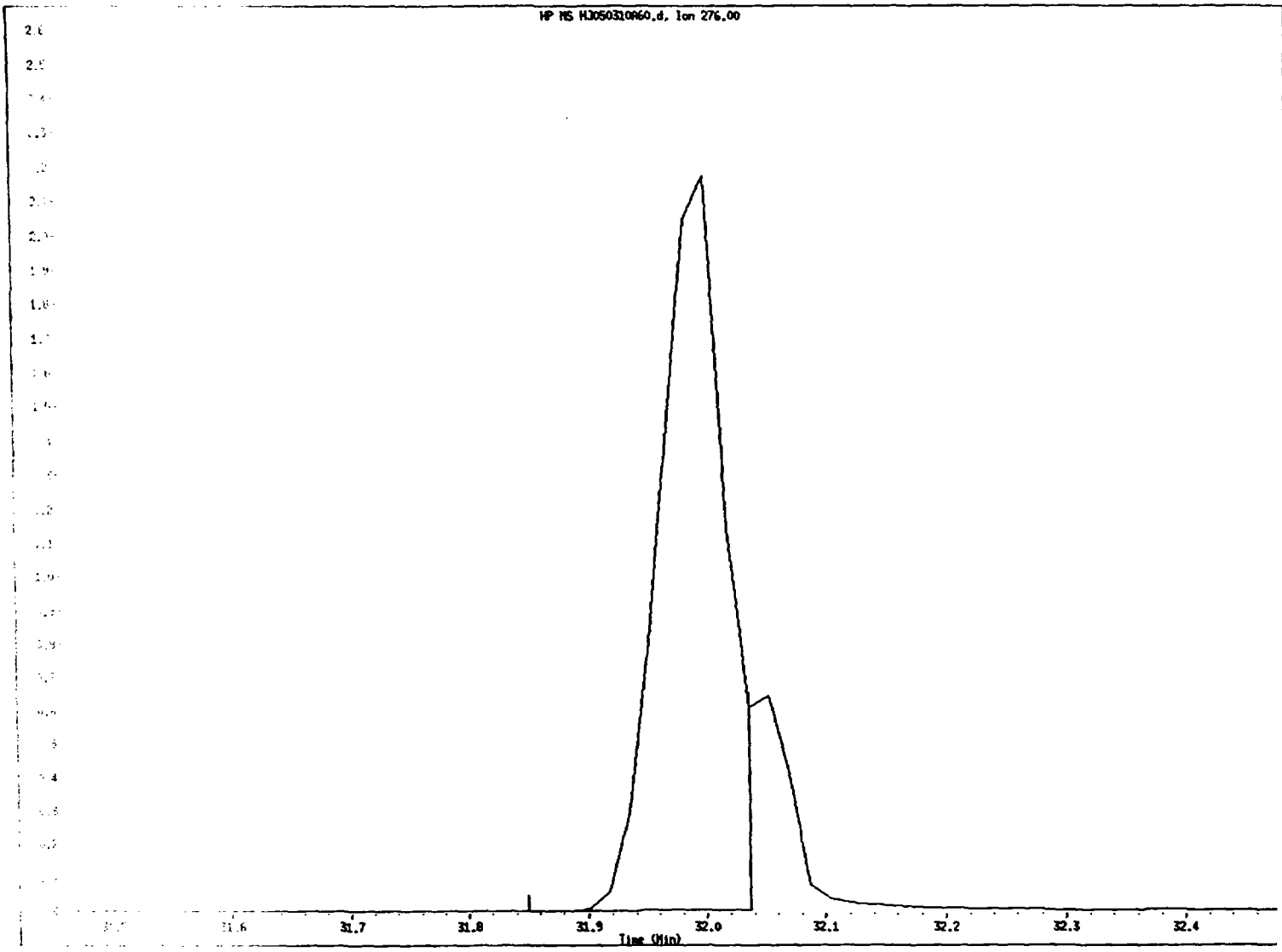
File name: /chem/5972hp60.i/DF050310A60.b/HJ050310A60.d
Client ID: SSTD050V0
Instrument ID: 5972hp60.i
Injection Date and Time: 10-MAR-2005 11:36
Retention Time: 28.97
Operator ID: 917

[illegible]ene CAS Number 50-32-8 Area = 887741 User selected hit



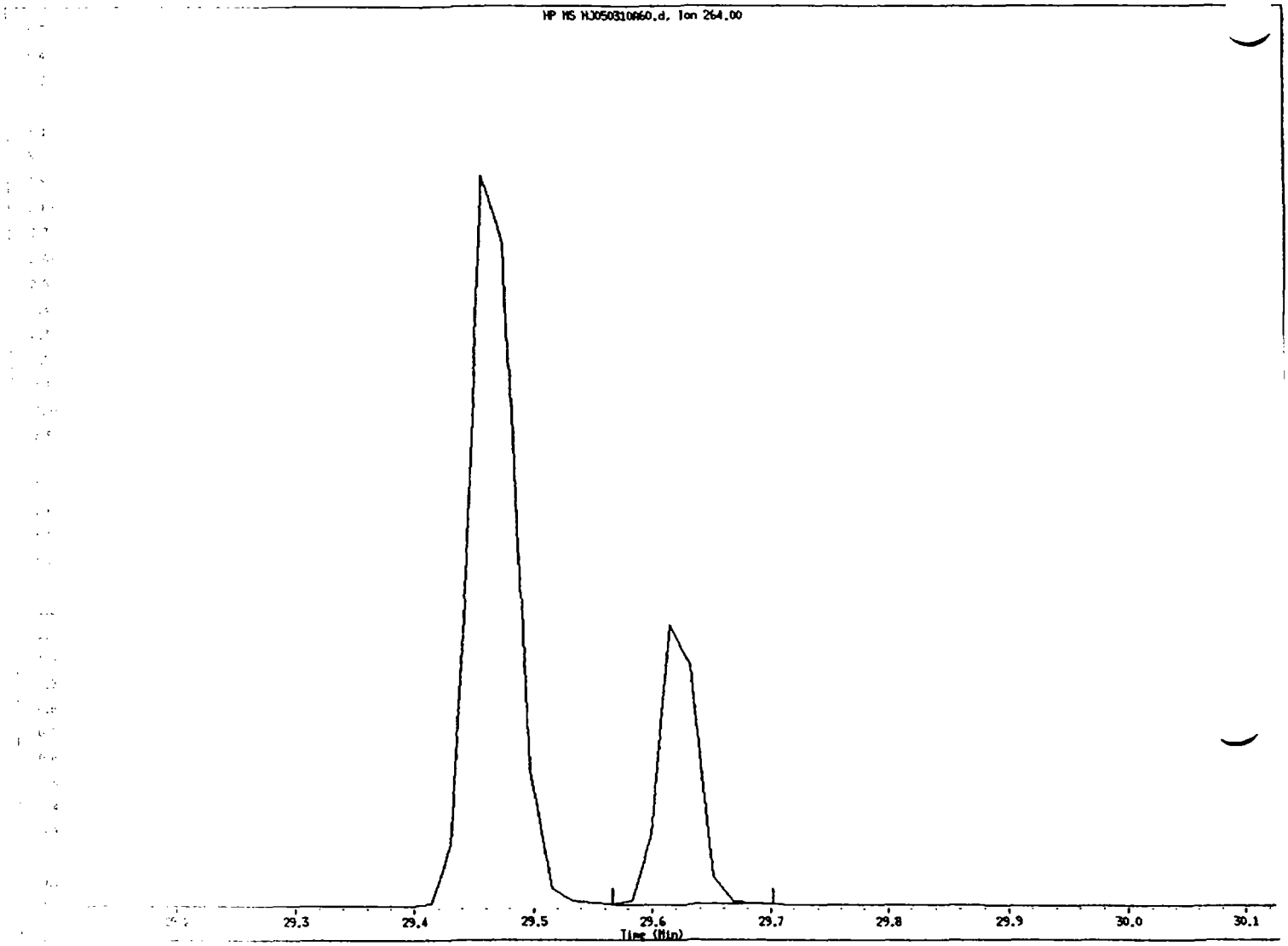
[illegible]em/5972hp60.i/DF050310A60.b/HJ050310A60.d
[illegible]D050V0
[illegible] 5972hp60.i
[illegible]e and Time: 10-MAR-2005 11:36
Retention Time: 29.53
Operator ID: 917

Indeno(1,2,3-cd)pyrene CAS Number 193-39-5 Area = 860853 Manually integrated



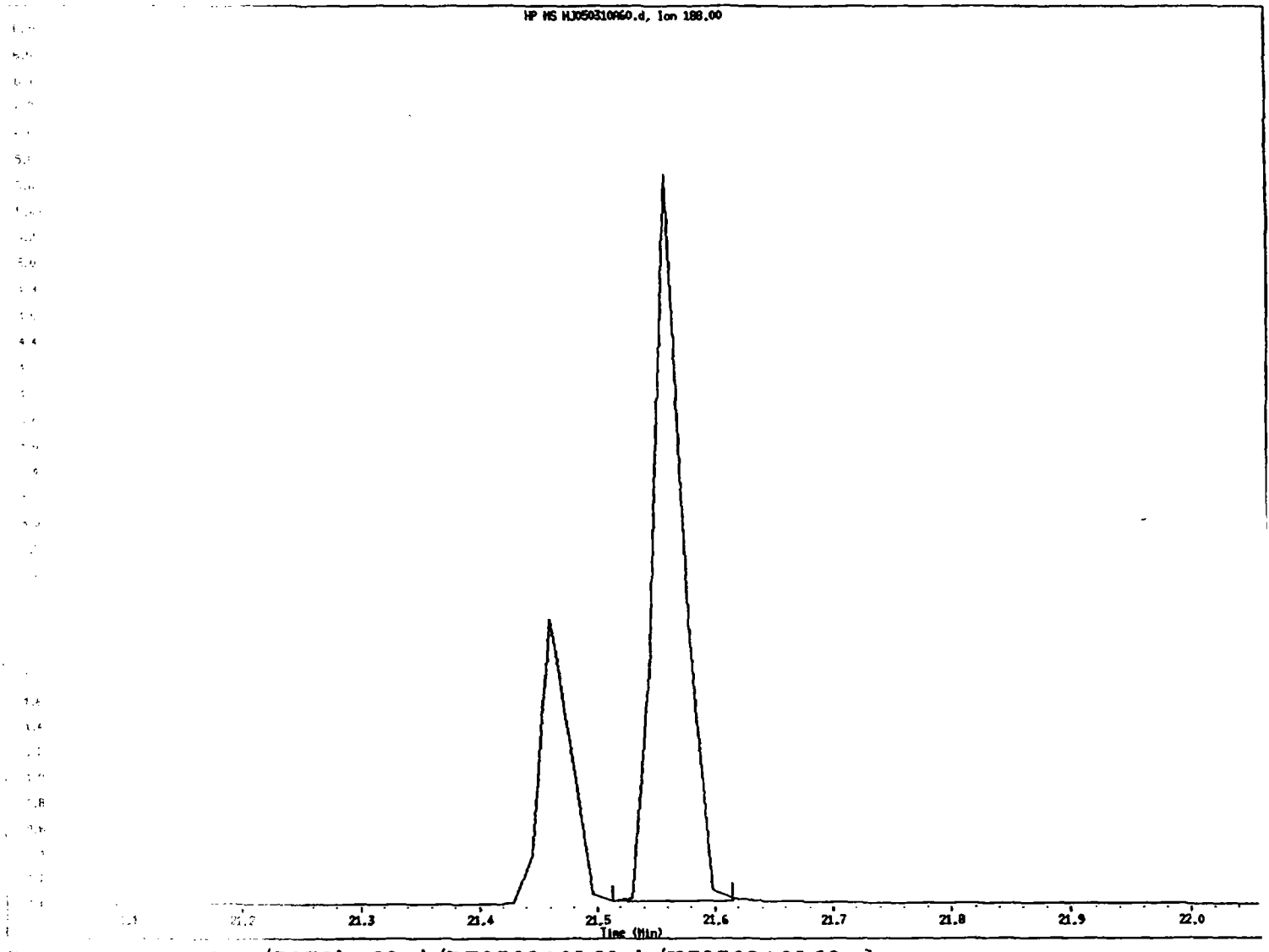
[illegible]/chem/5972hp60.i/DF050310A60.b/HJ050310A60.d
(Client ID: [illegible]TD050V0
Instrument ID: 5972hp60.i
Injection Date and Time: 10-MAR-2005 11:36
Retention Time: 32.00
Operator ID: 917

CAS Number 1520-96-3 Area = 255596 User selected hit



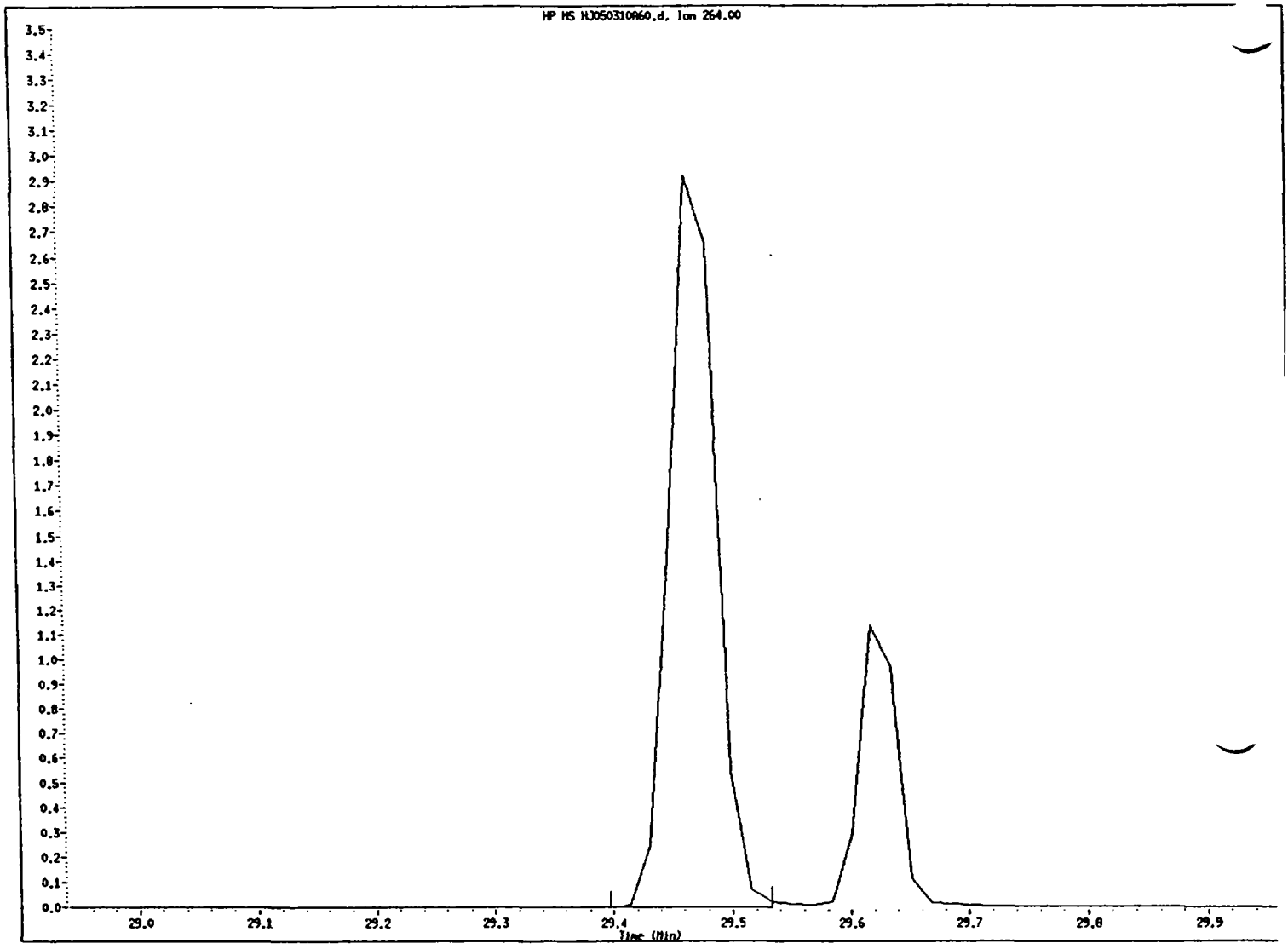
chem/5972hp60.i/DF050310A60.b/HJ050310A60.d
ID: 8STD050V0
ID: 5972hp60.i
Date and Time: 10-MAR-2005 11:36
Time: 29.62
ID: 917

CAS Number 1719-06-8 Area = 979892 User selected hit



em/5972hp60.i/DF050310A60.b/HJ050310A60.d
050V0
5972hp60.i
and Time: 10-MAR-2005 11:36
Time: 21.56
917

Benzo(a)pyrene-d12 CAS Number 63466-71-7 Area = 798869 User selected hit



File name: /chem/5972hp60.i/DF050310A60.b/HJ050310A60.d
Client ID: SSTD050V0
Instrument ID: 5972hp60.i
Injection Date and Time: 10-MAR-2005 11:36
Retention Time: 29.46
Operator ID: 917

COPY CXX31

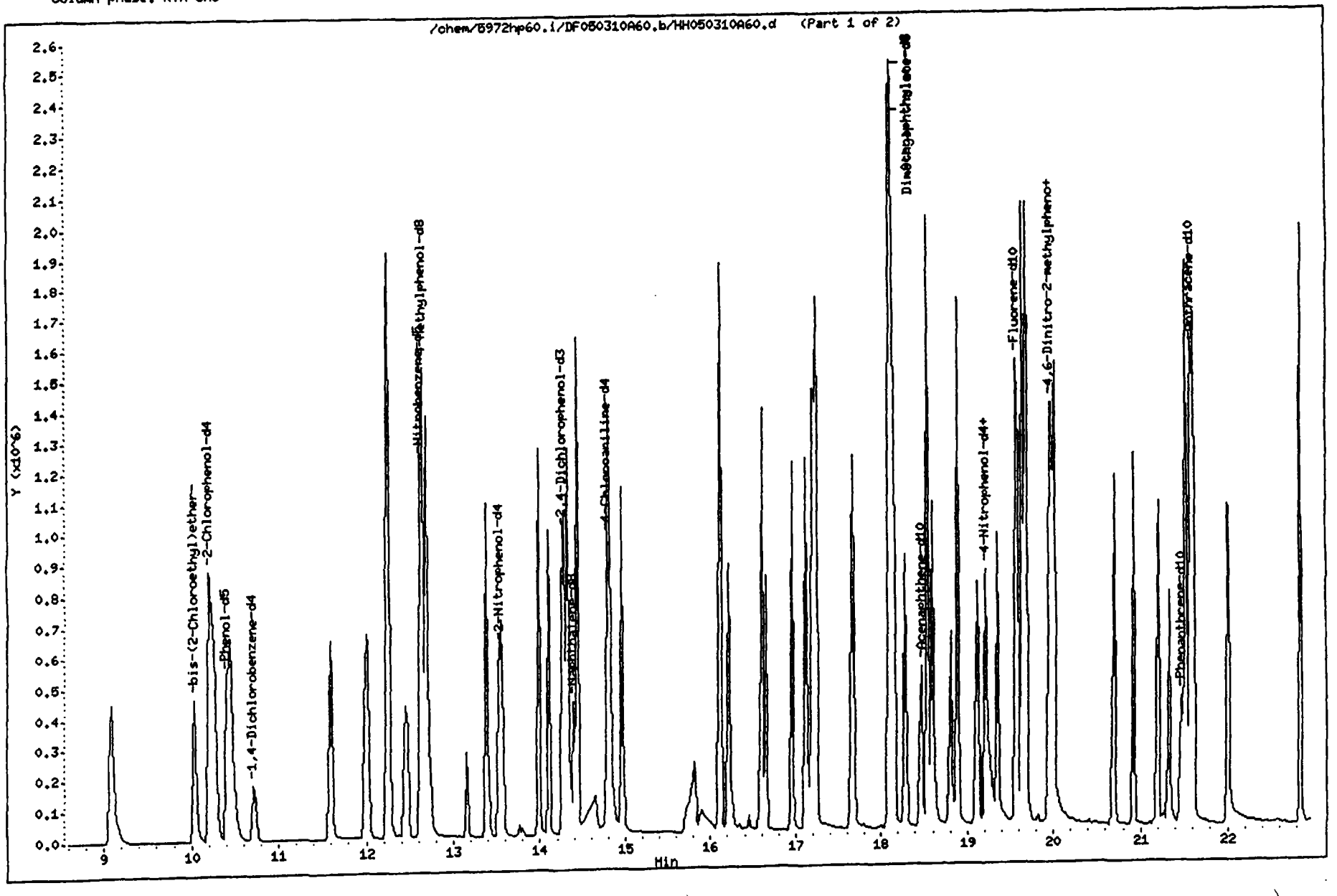
ORIGINAL DOCUMENTS INCLUDED IN CSF- 33914

SIGNATURE KH DATE 3/15/05

Data File: /chem/5972hp60.i/DF050310A60.b/HH050310A60.d
Date : 10-MAR-2005 09:59
Client ID: SSTD080V0
Sample Info: SSTD080V0:917
Volume Injected (uL): 1.0
Column phase: RTX-5MS

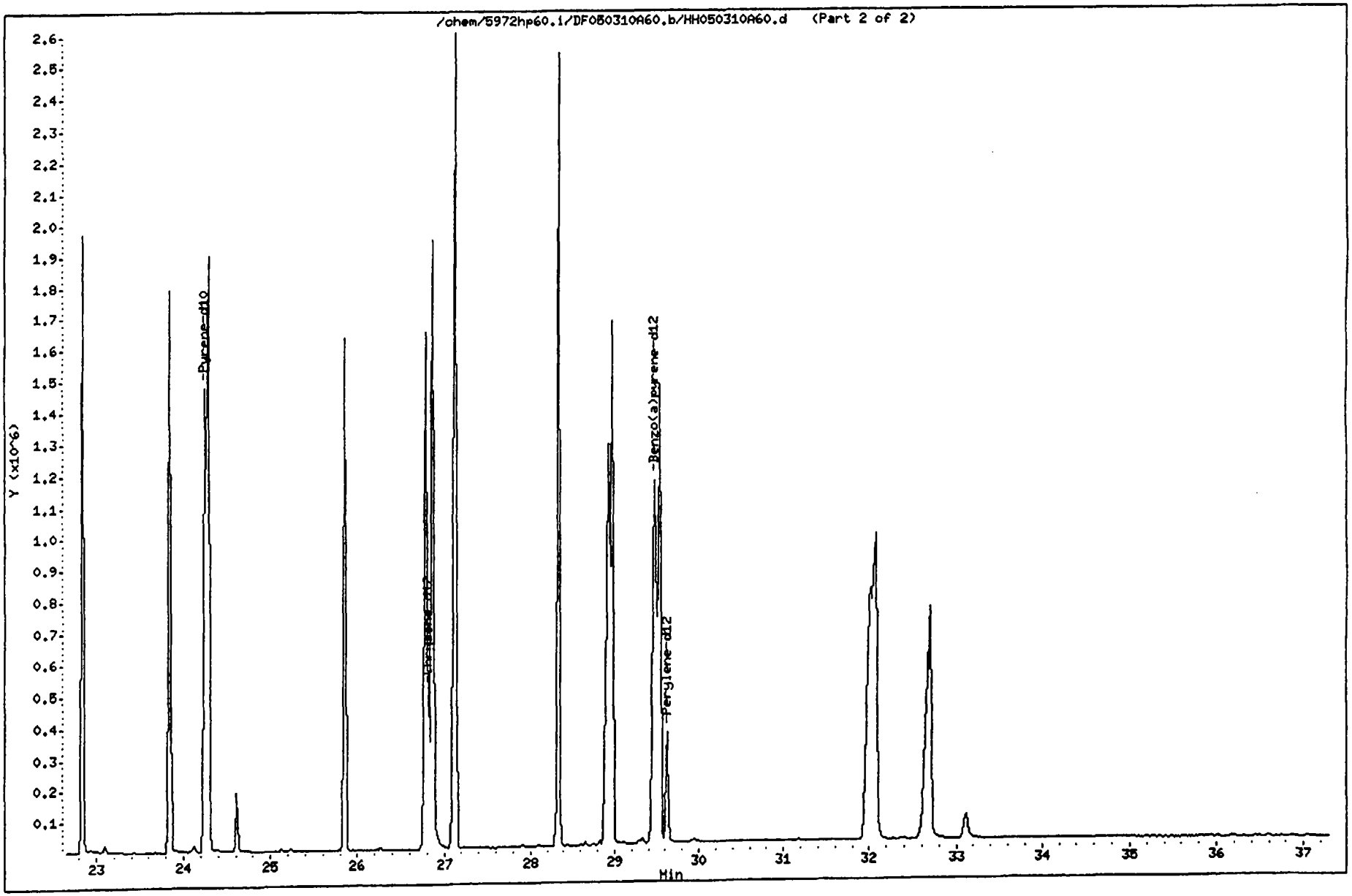
Instrument: 5972hp60.i

Operator: 917
Column diameter: 0.32



Data File: /chem/5972hp60.i/DF050310A60.b/HH050310A60.d
Date : 10-MAR-2005 09:59
Client ID: SSTD080V0
Sample Info: SSTD080V0:917
Volume Injected (uL): 1.0
Column phase: RTX-5MS

Instrument: 5972hp60.i
Operator: 917
Column diameter: 0.32



Data File: /chem/5972hp60.i/DF050310A60.b/HH050310A60.d
Report Date: 14-Mar-2005 09:43

CompuChem

OLC03.0 + REVISIONS QUANT AND RATIO REPORT

Data file : /chem/5972hp60.i/DF050310A60.b/HH050310A60.d
Lab Smp Id: SSTD080V0 Client Smp ID: SSTD080V0
Inj Date : 10-MAR-2005 09:59
Operator : 917 Inst ID: 5972hp60.i
Smp Info : SSTD080V0:917
Misc Info :
Comment :
Method : /chem/5972hp60.i/DF050310A60.b/OLC03v5.m
Meth Date : 14-Mar-2005 09:41 henning Quant Type: ISTD
Cal Date : 10-MAR-2005 09:02 Cal File: HG050310A60.d
Als bottle: 3 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: OLC03.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/(Vo * Vi) * CpndVariable

Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)	SIMILARITY
*	1 1,4-Dichlorobenzene-d4	152	10.714	10.720	(1.000)	95908	20.0000		
*	2 Naphthalene-d8	136	14.385	14.391	(1.000)	379746	20.0000		7676
*	3 Acenaphthene-d10	164	18.462	18.451	(1.000)	217493	20.0000		7638
*	4 Phenanthrene-d10	188	21.456	21.462	(1.000)	322325	20.0000		8744
*	5 Chrysene-d12	240	26.819	26.808	(1.000)	252838	20.0000		8267
*	6 Perylene-d12	264	29.628	29.617	(1.000)	202458	20.0000		7499(H)
$	7 Phenol-d5	99	10.409	10.449	(0.972)	672308	80.0000	79	7011
$	8 bis-(2-Chloroethyl)ether-d8	67	10.037	10.043	(0.937)	407511	80.0000	79	8895
$	9 2-Chlorophenol-d4	132	10.206	10.229	(0.953)	523276	80.0000	79	7741
$	10 4-Methylphenol-d8	113	12.642	12.648	(1.180)	543425	80.0000	80	8212
$	11 Nitrobenzene-d5	128	12.625	12.631	(0.878)	278613	80.0000	80	8663(A)
$	12 2-Nitrophenol-d4	143	13.539	13.528	(0.941)	306787	80.0000	80	8502(A)
$	13 2,4-Dichlorophenol-d3	165	14.266	14.289	(0.992)	477499	80.0000	81	8864(A)
$	14 4-Chloroaniline-d4	131	14.791	14.780	(1.028)	641586	80.0000	80	8929
$	15 Dimethylphthalate-d6	166	18.107	18.079	(0.981)	1129896	80.0000	79	9005
$	16 Acenaphthylene-d8	160	18.090	18.079	(0.980)	1542926	80.0000	78	9123
$	17 4-Nitrophenol-d4	143	19.206	19.212	(1.040)	243214	80.0000	79	7900(M)
$	18 Fluorene-d10	176	19.562	19.551	(1.060)	931842	80.0000	79	9362
$	19 4,6-Dinitro-2-methylphenol-d2	200	19.951	19.923	(0.930)	236810	80.0000	79	8528

2

3/14/05 DH

Data File: /chem/5972hp60.i/DF050310A60.b/HH050310A60.d
Report Date: 14-Mar-2005 09:43

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)	SIMILARITY
$ 20 Anthracene-d10	188	21.575	21.547	(1.006)	1204866	80.0000	78	9233(H)
$ 21 Pyrene-d10	212	24.248	24.237	(0.904)	1268813	80.0000	77	9033
$ 22 Benzo(a)pyrene-d12	264	29.475	29.448	(1.000)	1003182	80.0000	79	8405(H)
23 Benzaldehyde	77	9.090	9.096	(0.848)	428563	80.0000	63	7672
24 Phenol	94	10.443	10.483	(0.975)	711767	80.0000	79	7806
25 bis(2-Chloroethyl)ether	93	10.223	10.212	(0.954)	496723	80.0000	78	8649
26 2-Chlorophenol	128	10.257	10.280	(0.957)	524278	80.0000	79	7849
27 2-Methylphenol	108	12.253	12.242	(1.144)	495709	80.0000	77	
28 2,2'-oxybis(1-Chloropropane)	45	11.999	12.005	(1.120)	1023224	80.0000	79	
30 Acetophenone	105	12.236	12.242	(1.142)	669748	80.0000	77	9038
31 4-Methylphenol	108	12.693	12.699	(1.185)	557474	80.0000	79	
32 N-Nitroso-di-n-propylamine	70	12.456	12.428	(1.163)	318956	80.0000	79	7164
33 Hexachloroethane	117	12.270	12.276	(1.145)	239130	80.0000	78	8597
34 Nitrobenzene	77	12.676	12.682	(0.881)	677052	80.0000	79	8255
35 Isophorone	82	13.387	13.359	(0.931)	993036	80.0000	78	8051
36 2-Nitrophenol	139	13.573	13.562	(0.944)	327926	80.0000	80	8500
37 2,4-Dimethylphenol	107	13.996	13.985	(0.973)	496632	80.0000	82	8397(A)
38 bis(2-Chloroethoxy)methane	93	14.097	14.086	(0.980)	722625	80.0000	80	8492
39 2,4-Dichlorophenol	162	14.283	14.323	(0.993)	474416	80.0000	81	(A)
40 Naphthalene	128	14.436	14.425	(1.004)	1482772	80.0000	79	8629
41 4-Chloroaniline	127	14.825	14.814	(1.031)	667507	80.0000	79	8109
42 Hexachlorobutadiene	225	14.960	14.966	(1.040)	212680	80.0000	80	9383
43 Caprolactam	113	15.806	15.626	(1.099)	193375	80.0000	80	8582(M)
44 4-Chloro-3-methylphenol	107	16.212	16.201	(1.127)	486123	80.0000	80	8876(A)
45 2-Methylnaphthalene	142	16.110	16.099	(1.120)	956730	80.0000	78	
46 1,2,4,5 Tetrachlorobenzene	216	16.601	16.590	(0.899)	444973	80.0000	80	9697(A)
47 Hexachlorocyclopentadiene	237	16.652	16.658	(0.902)	211360	80.0000	92	8545(A)
49 2,4,6-Trichlorophenol	196	16.956	16.945	(0.918)	325246	80.0000	81	(A)
50 2,4,5-Trichlorophenol	196	17.109	17.098	(0.927)	532505	120.000	120	(A)
51 1,1'-Biphenyl	154	17.227	17.233	(0.933)	1152649	80.0000	78	8534
52 2-Chloronaphthalene	162	17.193	17.199	(0.931)	959875	80.0000	79	8799
53 2-Nitroaniline	65	17.667	17.639	(0.957)	481269	120.000	120	8081(A)
54 Dimethylphthalate	163	18.140	18.130	(0.983)	1076471	80.0000	79	8974
55 2,6-Dinitrotoluene	165	18.276	18.265	(0.990)	290211	80.0000	80	7807
56 Acenaphthylene	152	18.124	18.113	(0.982)	1521765	80.0000	77	9252
57 3-Nitroaniline	138	18.597	18.569	(1.007)	432337	120.000	110	7886
58 Acenaphthene	153	18.530	18.519	(1.004)	947622	80.0000	78	8707
59 2,4-Dinitrophenol	184	18.800	18.789	(1.018)	263305	120.000	130	8887(A)
60 4-Nitrophenol	109	19.206	19.229	(1.040)	139921	120.000	120	
61 Dibenzofuran	168	18.885	18.874	(1.023)	1401222	80.0000	78	8599
62 2,4-Dinitrotoluene	165	19.105	19.094	(1.035)	383919	80.0000	80	8685
63 Diethylphthalate	149	19.680	19.652	(1.066)	1132692	80.0000	79	8633
64 Fluorene	166	19.629	19.618	(1.063)	1124506	80.0000	78	0(M)
65 4-Chlorophenyl-phenylether	204	19.697	19.686	(1.067)	484064	80.0000	80	8698
66 4-Nitroaniline	138	19.951	19.923	(1.081)	416286	120.000	110	(M)
67 4,6-Dinitro-2-methylphenol	198	19.985	19.940	(0.931)	384240	120.000	120	(A)
68 N-nitrosodiphenylamine	169	20.018	19.991	(0.933)	811086	80.0000	79	8060

3/14/05 DH

Data File: /chem/5972hp60.i/DF050310A60.b/HH050310A60.d
Report Date: 14-Mar-2005 09:43

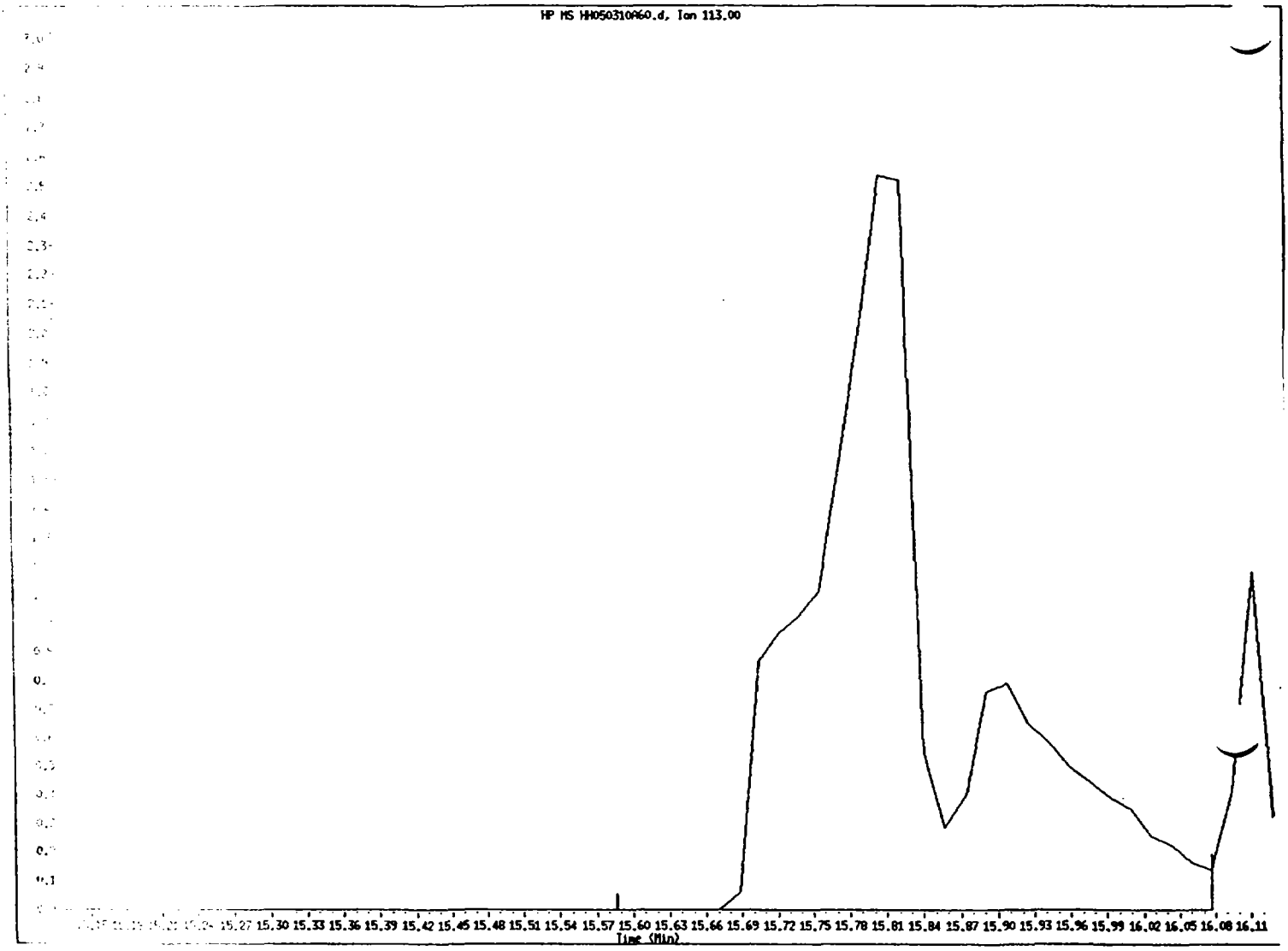
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)	SIMILARITY
69 4-Bromophenyl-phenylether	248	20.695	20.684	(0.965)	259481	80.0000	80	8883(A)
70 Hexachlorobenzene	284	20.915	20.904	(0.975)	285657	80.0000	77	8422
71 Atrazine	200	21.203	21.175	(0.988)	258655	80.0000	84	7899(A)
72 Pentachlorophenol	266	21.321	21.327	(0.994)	168211	80.0000	81	9250(A)
73 Phenanthrene	178	21.507	21.496	(1.002)	1378348	80.0000	77	
74 Anthracene	178	21.609	21.581	(1.007)	1430696	80.0000	80	
75 Di-n-butylphthalate	149	22.844	22.833	(1.065)	1929193	80.0000	80	8682
76 Fluoranthene	202	23.842	23.831	(1.111)	1329147	80.0000	77	
77 Pyrene	202	24.299	24.271	(0.906)	1467072	80.0000	79	
78 Butylbenzylphthalate	149	25.855	25.844	(0.964)	822839	80.0000	76	8548
79 3,3'-Dichlorobenzidine	252	26.853	26.859	(1.001)	264277	80.0000	72	8906
80 bis(2-Ethylhexyl)phthalate	149	27.124	27.113	(1.011)	1173676	80.0000	76	9068
81 Benzo(a)anthracene	228	26.785	26.775	(0.999)	1206526	80.0000	78	
82 Chrysene	228	26.870	26.859	(1.002)	1132165	80.0000	79	
83 Di-n-octylphthalate	149	28.342	28.331	(0.962)	2204149	80.0000	77	9058
84 Benzo(b)fluoranthene	252	28.917	28.889	(0.981)	1486357	80.0000	85	(A)
85 Benzo(k)fluoranthene	252	28.968	28.940	(0.983)	1237613	80.0000	74	(H)
86 Benzo(a)pyrene	252	29.526	29.498	(1.002)	1111140	80.0000	80	7938(H)
87 Indeno(1,2,3-cd)pyrene	276	31.996	31.968	(1.080)	1124219	80.0000	85	0(AM)
88 Dibenzo(a,h)anthracene	278	32.064	32.036	(1.088)	1045416	80.0000	83	8313(A)
89 Benzo(g,h,i)perylene	276	32.690	32.628	(1.109)	1032228	80.0000	80	8161(A)

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.

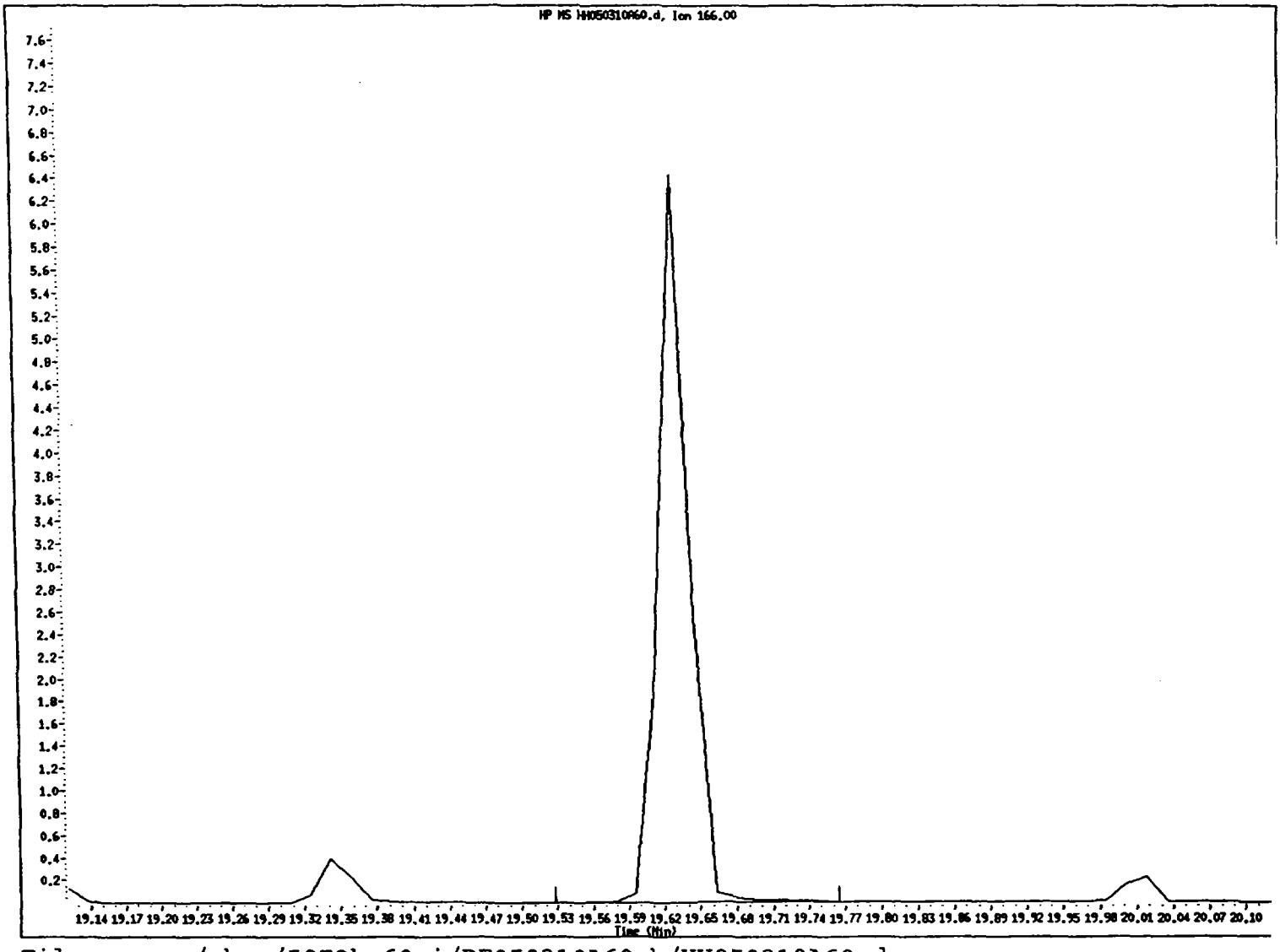
3/14/05

Caprolactam CAS Number 105-60-2 Area = 193375 Manually integrated



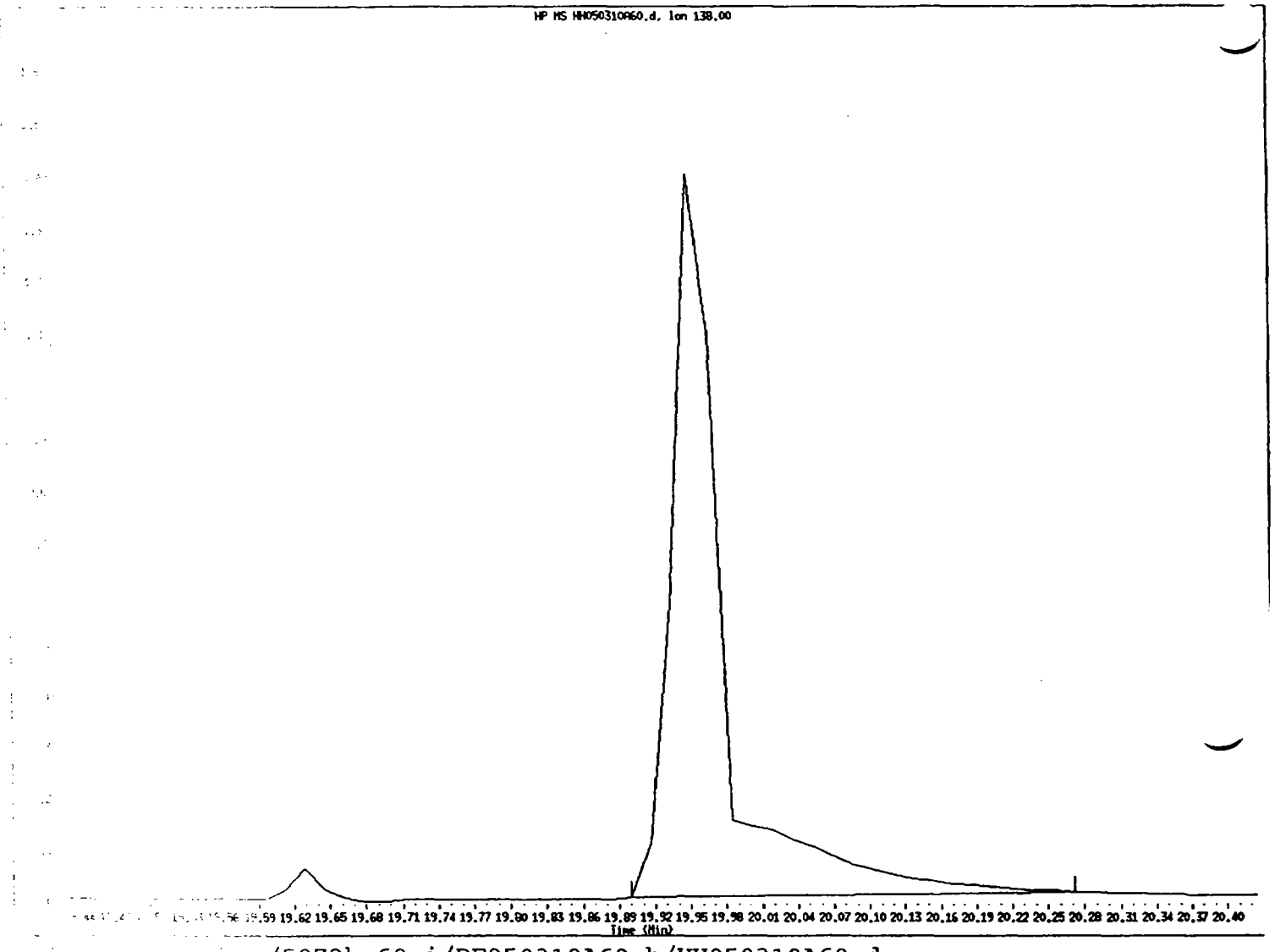
File: Server /rtchem/5972hp60.i/DF050310A60.b/HH050310A60.d
Client ID: sSTD080V0
Instrument ID: 5972hp60.i
Injection Date and Time: 10-MAR-2005 09:59
Retention Time: 15.81
Operator ID: 917

Fluorene CAS Number 86-73-7 Area = 1124506 Manually integrated



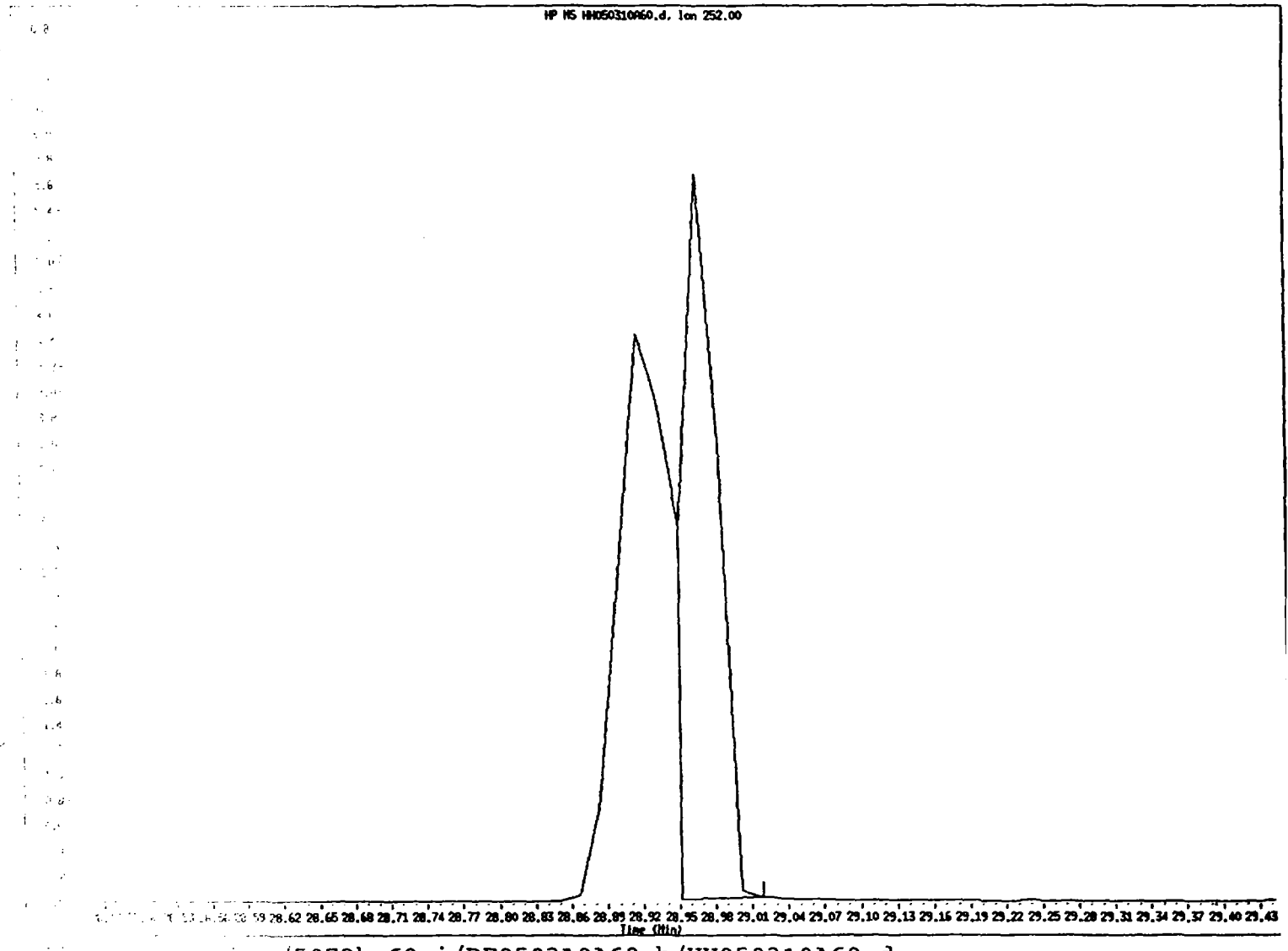
File name: /chem/5972hp60.i/DF050310A60.b/HH050310A60.d
Client ID: SSTD080V0
Instrument ID: 5972hp60.i
Injection Date and Time: 10-MAR-2005 09:59
Retention Time: 19.63
Operator ID: 917

Aniline CAS Number 100-01-6 Area = 416286 Manually integrated



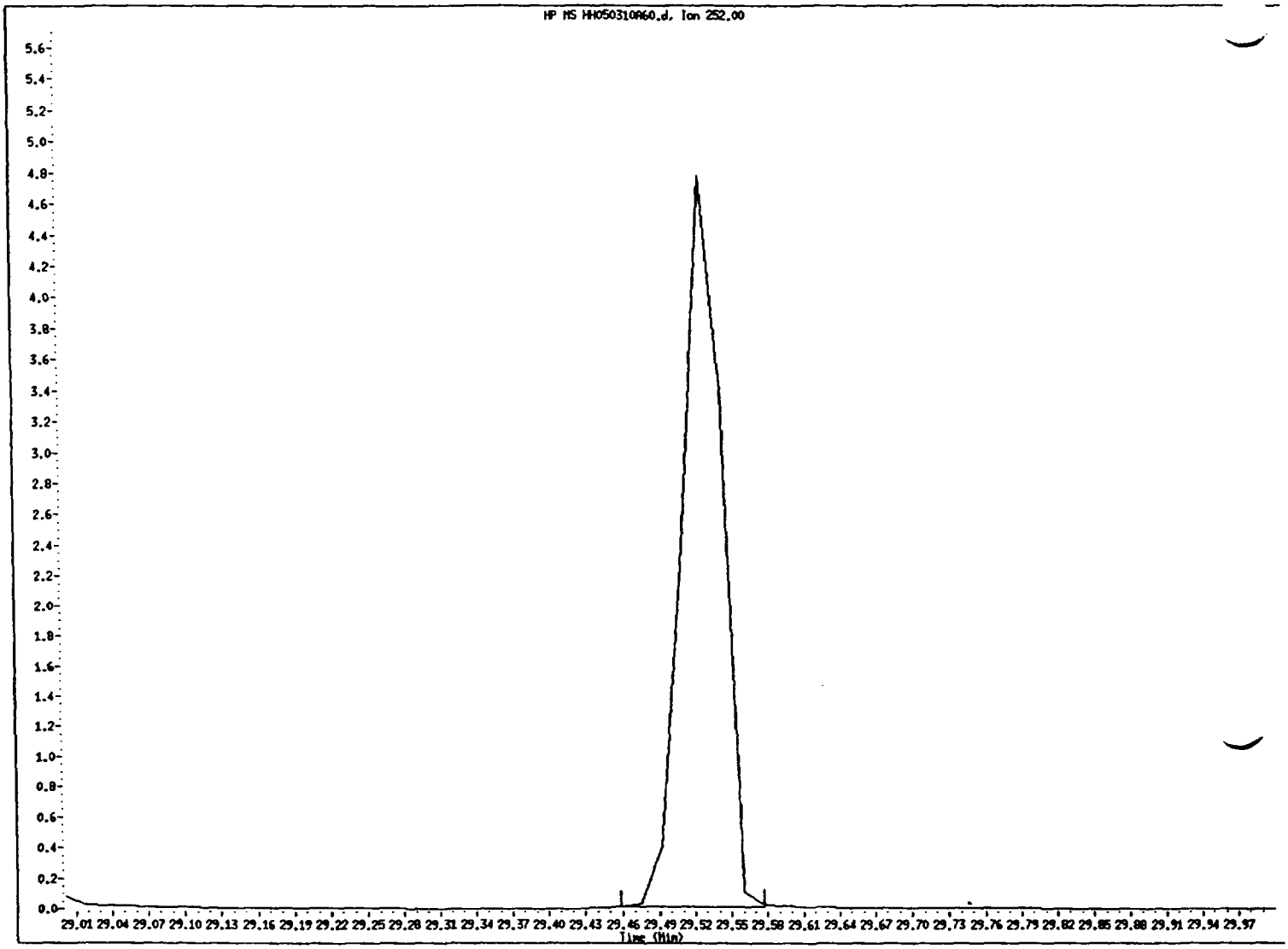
chem/5972hp60.i/DF050310A60.b/HH050310A60.d
STD080V0
5972hp60.i
and Time: 10-MAR-2005 09:59
19.95
317

[illegible]ranthene CAS Number 207-08-9 Area = 1237613 User selected hit



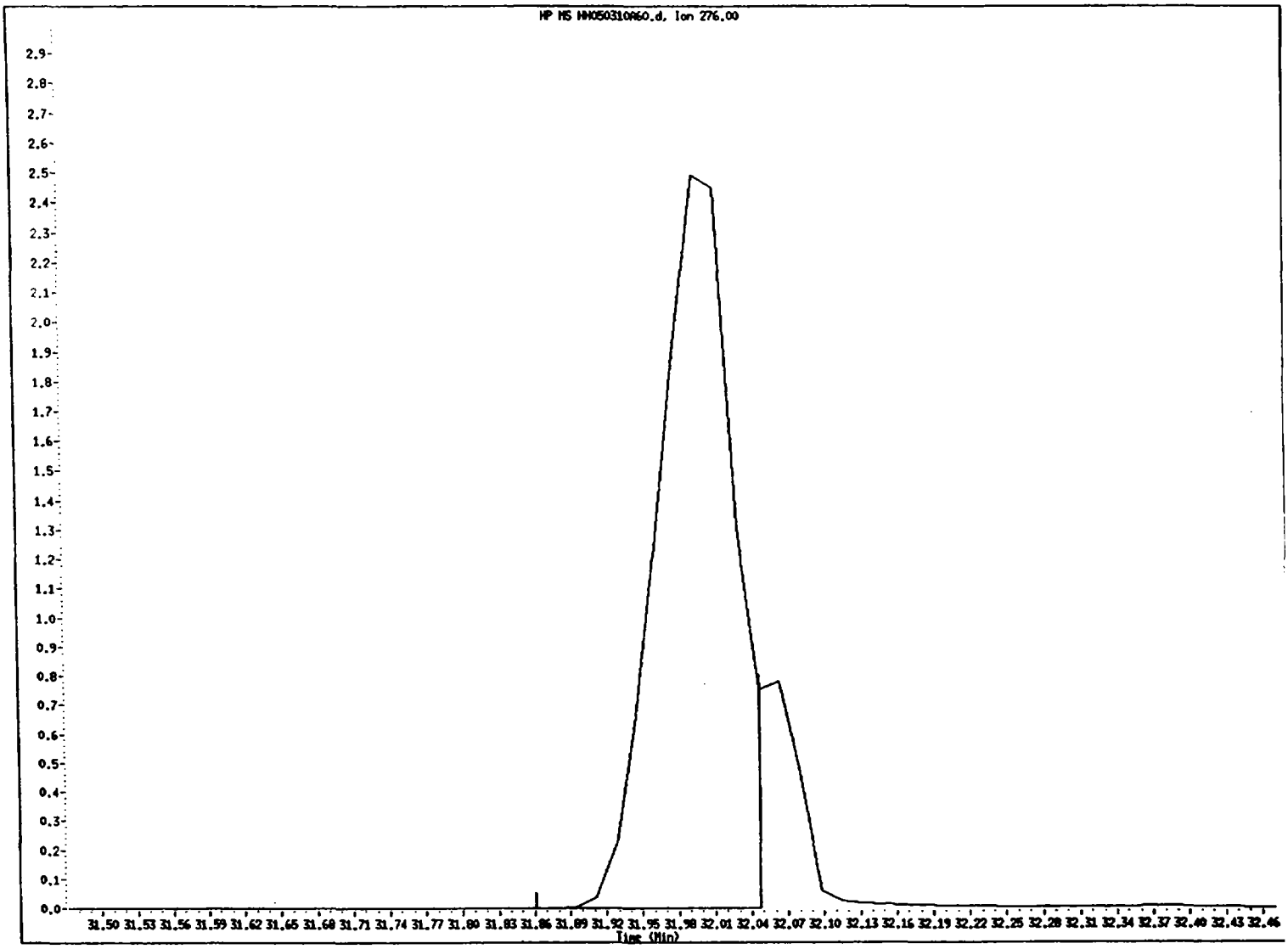
[illegible]hem/5972hp60.i/DF050310A60.b/HH050310A60.d
[illegible] ID: SCTD080V0
[illegible] ID: 5972hp60.i
[illegible] Date and Time: 10-MAR-2005 09:59
[illegible] Time: 28.97
[illegible] ID: 917

Benzo(a)pyrene CAS Number 50-32-8 Area = 1111140 User selected hit



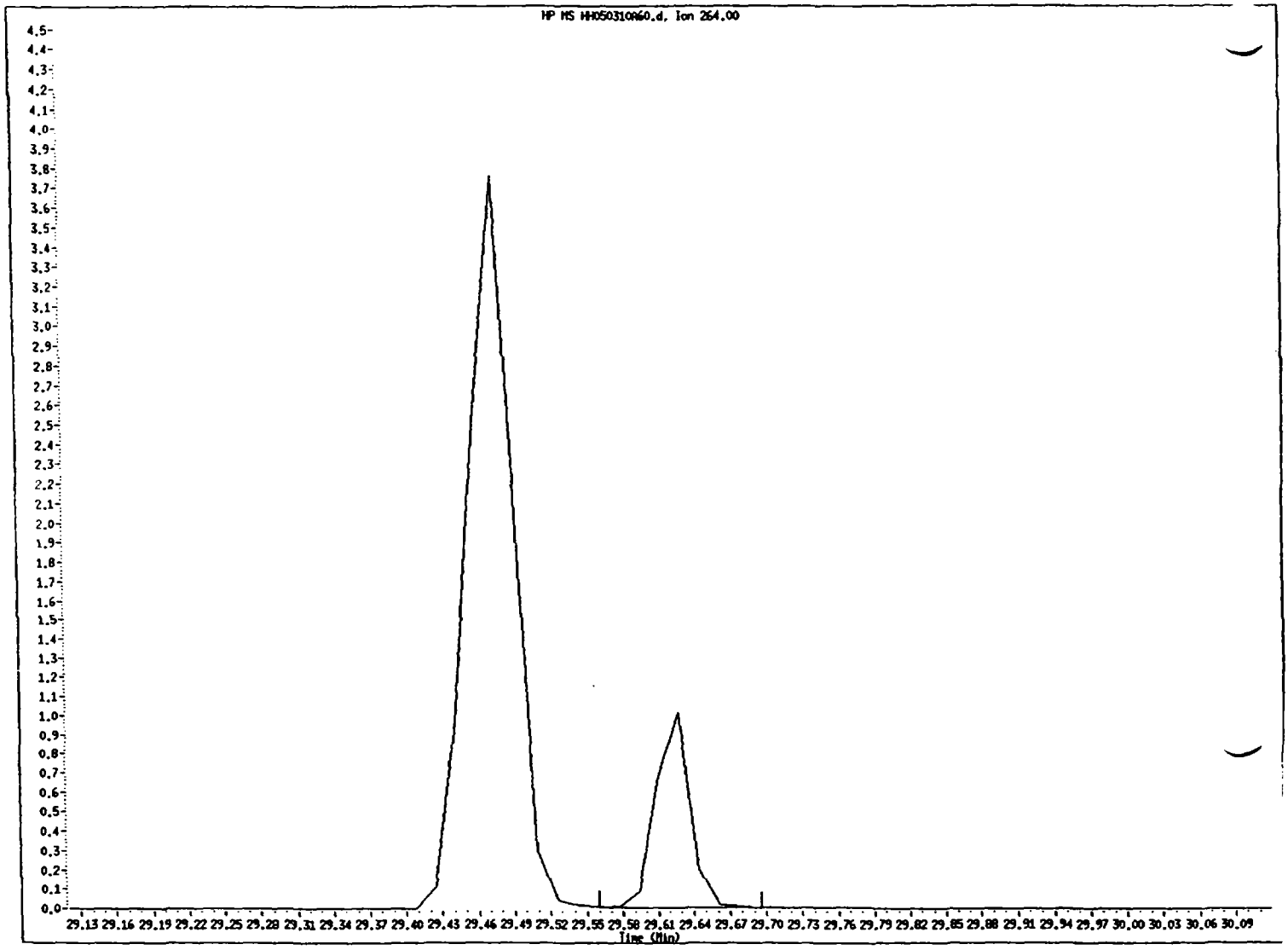
File name: /chem/5972hp60.i/DF050310A60.b/HH050310A60.d
Client ID: SSTD080V0
Instrument ID: 5972hp60.i
Injection Date and Time: 10-MAR-2005 09:59
Retention Time: 29.53
Operator ID: 917

Indeno(1,2,3-cd)pyrene CAS Number 193-39-5 Area = 1124219 Manually integrated



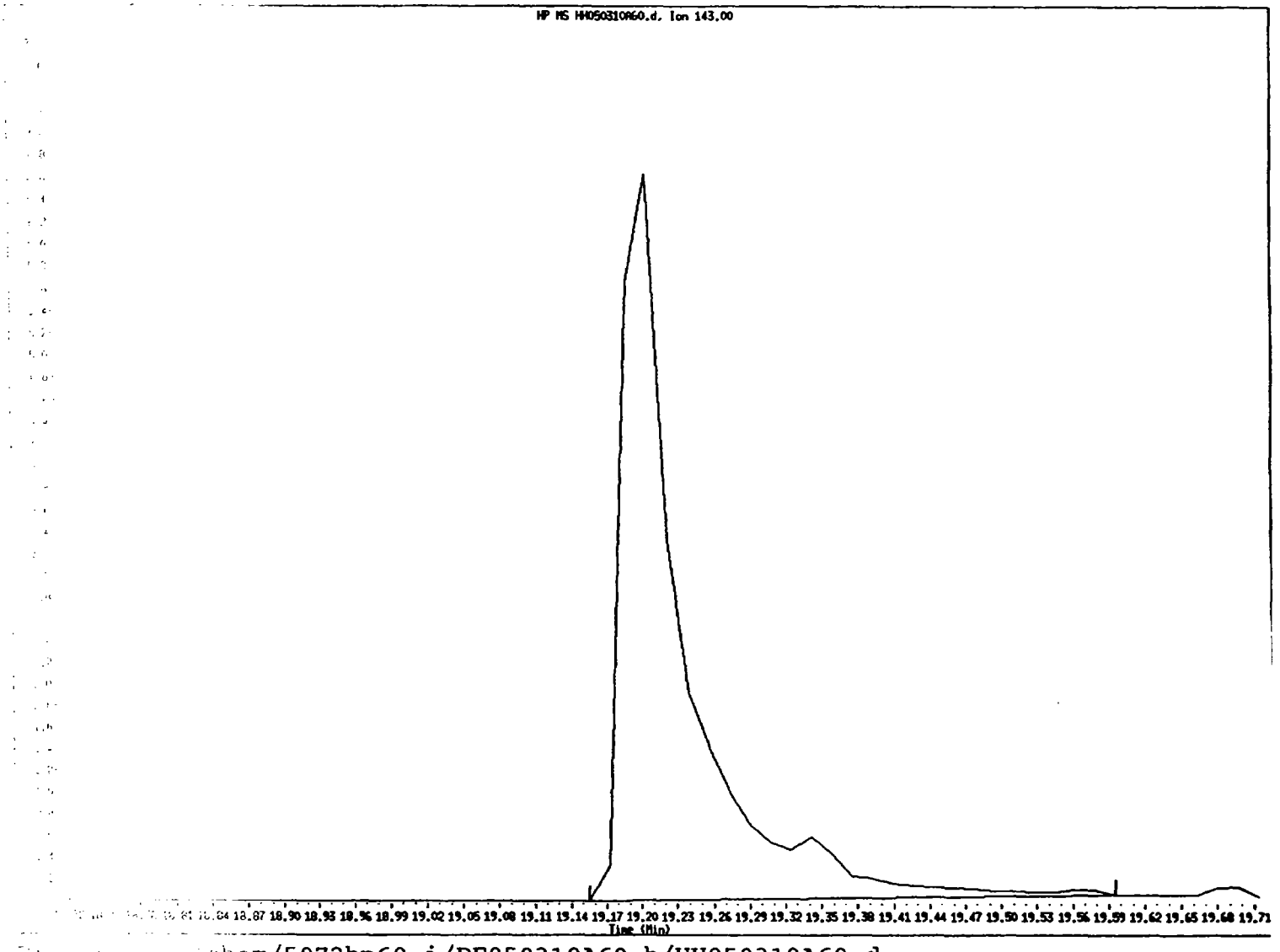
File name: /chem/5972hp60.i/DF050310A60.b/HH050310A60.d
Client ID: SSTD080V0
Instrument ID: 5972hp60.i
Injection Date and Time: 10-MAR-2005 09:59
Retention Time: 32.00
Operator ID: 917

Perylene-d12 CAS Number 1520-96-3 Area = 202458 User selected hit



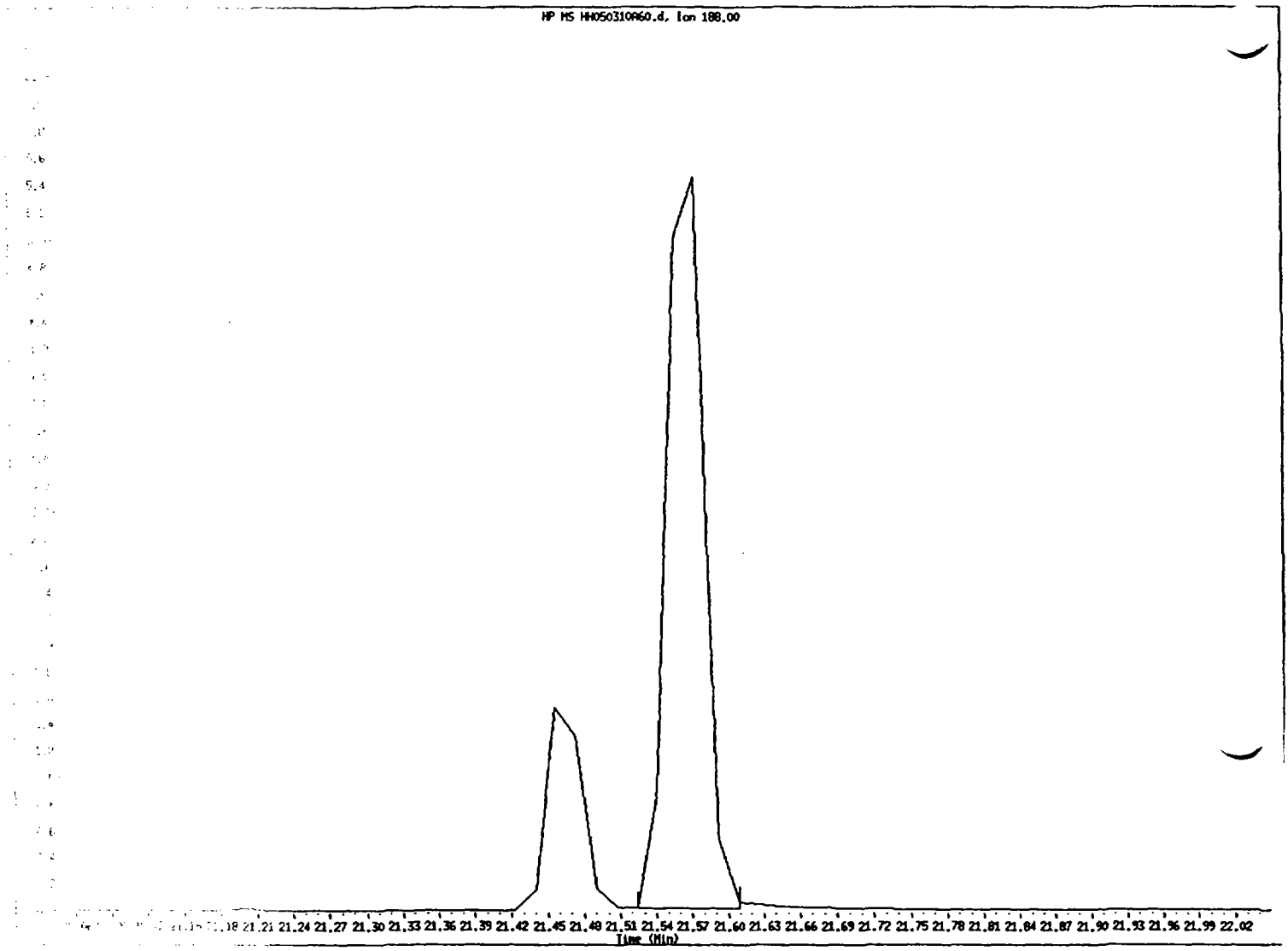
File name: /chem/5972hp60.i/DF050310A60.b/HH050310A60.d
Client ID: SSTD080V0
Instrument ID: 5972hp60.i
Injection Date and Time: 10-MAR-2005 09:59
Retention Time: 29.63
Operator ID: 917

-d4 CAS Number 93951-79-2 Area = 243214 Manually integrated



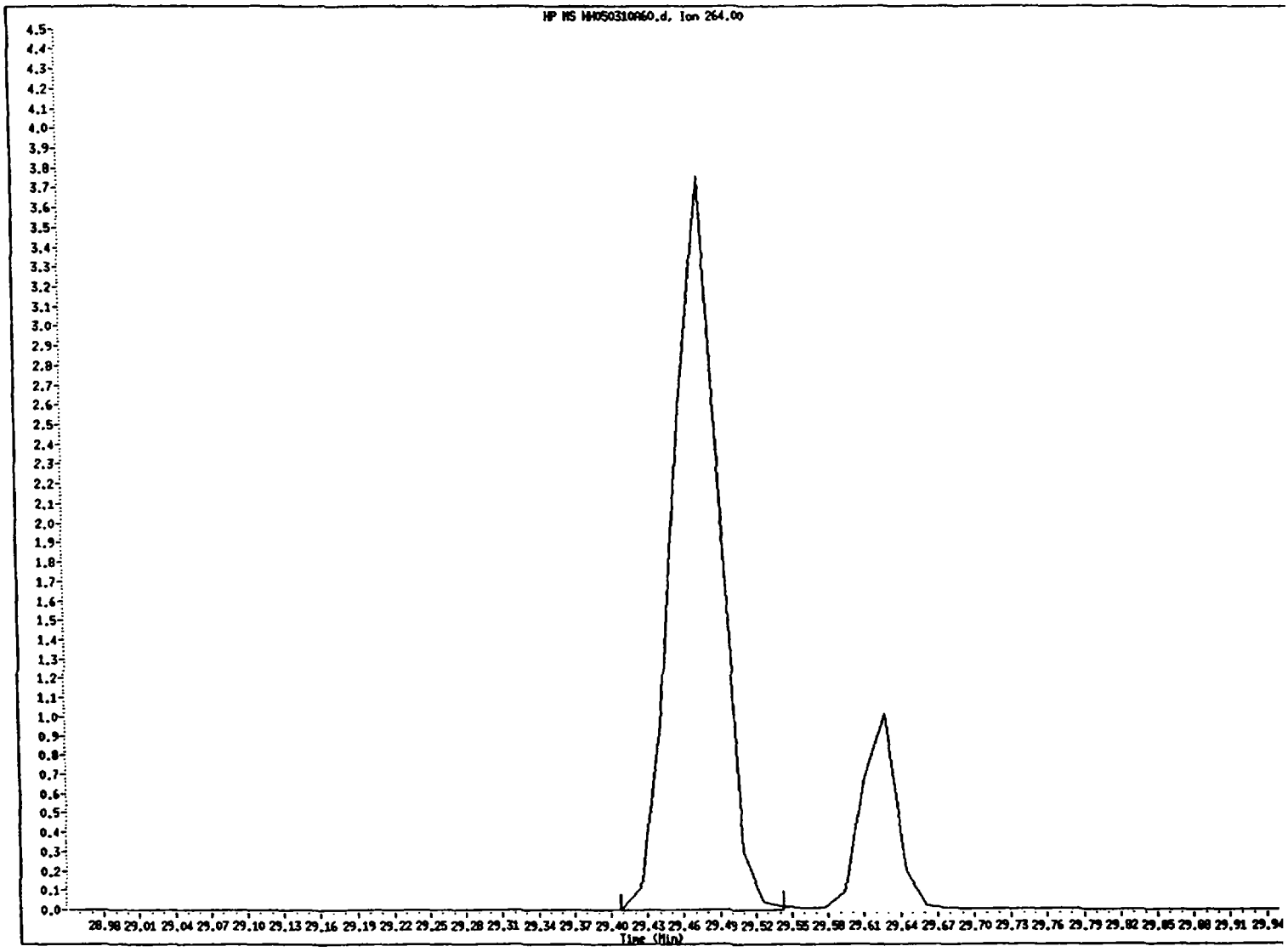
hem/5972hp60.i/DF050310A60.b/HH050310A60.d
STD080V0
D: 5972hp60.i
Date and Time: 10-MAR-2005 09:59
Time: 19.21
ID: 917

[illegible]10 CAS Number 1719-06-8 Area = 1204866 User selected hit



[illegible]em/5972hp60.i/DF050310A60.b/HH050310A60.d
[illegible]SSTD080V0
[illegible] 5972hp60.i
[illegible]Date and Time: 10-MAR-2005 09:59
[illegible]Time: 21.57
[illegible]: 917

Benzo(a)pyrene-d12 CAS Number 63466-71-7 Area = 1003182 User selected hit



File name: /chem/5972hp60.i/DF050310A60.b/HH050310A60.d
Client ID: SSTD080V0
Instrument ID: 5972hp60.i
Injection Date and Time: 10-MAR-2005 09:59
Retention Time: 29.48
Operator ID: 917

208

COMPUCHEM a division of Liberty Analytical Corp DATE 3/10/05 INITIAL TIME OF TUNE 0828 SHIFT/S(A) ✓ (B)____ (C)____

GC/MS SEMIVOLATILE RUN LOG TIME TUNE EXPIRES 2028 LINKER /METHOD OLCO3

COMPUCHEM LOGBOOK 4 V(4) 11 (5972hp60)

PREVENTIVE MAINTENANCE none

		FILE NAME		DATE	TIME	CLIENT ID#	CASE/SDG#	AMOUNT INJECTED	CHEMIST	COMMENTS(ETC.)/DISPOSITION
1		DF050310A60	/	3/10/05	0828	DFTPP	—	2 ul	917	SCD-LCD
2		HG050310A60	/	/ /	0902	SSTD020V0	—	1 ul		# 57126
3		HH050310A60	/	/ /	0959	SSTD080V0	—			# 57128
4		HI050310A60	/	/ /	1047	SSTD005V0	—			# 57124
5		HJ050310A60	/	/ /	1136	SSTD050V0	—			# 57127
6		HK050310A60	/	6/4 /	1224	SSTD010V0	—			# 57125
7	OK	OLCSVBA60	OK	OK 3/10 /	1313	OLCSVB	OLC MDL			MP Good !!
8		OLCSV1A60	/	/ /	1401	OLCSV1				
9		OLCSV2A60	/	/ /	1448	OLCSV2				
10		OLCSV3A60	/	/ /	1537	OLCSV3				
11		OLCSV4A60	/	/ /	1627	OLCSV4				
12		OLCSV5A60	/	/ /	1716	OLCSV5				
13		OLCSV6A60	/	/ /	1805	OLCSV6				
14		OLCSV7A60	/	/ /	1854	OLCSV7				
15		OLCSV8A60	/	/ /	1943	OLCSV8				
16	/	OLCSV9A60	OT	/ /	2032	OLCSV9				
17				/ /						
18				/ /						
19				/ /						
20				/ /			FJ 3/10/05			
21				/ /						
22				/ /						
23				/ /						
24				/ /						

STANDARDS

	Tune	Analytical	Int. Std.	Column Type
Std. ID #	7055	See Comment	800	RTX-5MS 0.32 mm
Lot #	56814	↓	57122	

Solvent Lot # A49E07

SUPERVISOR APPROVAL [signature]

DATE 3/10/05

The presence of the Chemist's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist together with the chemist's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

12/09/04:jad

b. Continuing Calibration Data (Form VII LCSV-1, LCSV-2, and LCSV-3)

If more than one instrument is used, forms shall be arranged in order by instrument. If multiple continuing calibrations from the same instrument are used, they shall be in chronological order.

(1) Reconstructed Ion Chromatograms and quantitation reports for all continuing (12-hour) calibrations. Spectra not required.

(2) EICPs displaying each manual integration.

7LCD

LOW CONCENTRATION WATER SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Instrument ID: 5972HP60 Calibration Date: 10/06/2005 Time: 0921

Lab File ID: HG051006A60 Init. Calib. Date(s): 03/10/2005 03/10/2005

EPA Sample No.(SSTD020##): SSTD020AU Init. Calib. Times: 0902 1224

GC Column: RTX-5MS ID: 0.32(MM)

COMPOUND	$\overline{RRF}$	RRF20	MIN RRF	%D	MAX %D
Benzaldehyde	1.421	1.179		-17.0	
Phenol	1.834	1.772	0.800	-3.4	25.0
bis(2-Chloroethyl)ether	1.331	1.262	0.700	-5.2	25.0
2-Chlorophenol	1.380	1.299	0.800	-5.9	25.0
2-Methylphenol	1.324	1.419	0.700	7.2	25.0
2,2'-oxybis(1-Chloropropane)	2.728	2.835		3.9	
Acetophenone	1.835	2.214		20.7	
4-Methylphenol	1.430	1.504	0.600	5.2	25.0
N-Nitroso-di-n-propylamine	0.832	0.829	0.500	-0.4	25.0
Hexachloroethane	0.648	0.754	0.300	16.4	25.0
Nitrobenzene	0.451	0.377	0.200	-16.4	25.0
Isophorone	0.680	0.695	0.400	2.2	25.0
2-Nitrophenol	0.208	0.220	0.100	5.8	30.0
2,4-Dimethylphenol	0.311	0.340	0.200	9.3	30.0
bis(2-Chloroethoxy)methane	0.480	0.525	0.300	9.4	25.0
2,4-Dichlorophenol	0.295	0.347	0.200	17.6	25.0
Naphthalene	1.000	1.105	0.700	10.5	25.0
4-Chloroaniline	0.432	0.488		13.0	
Hexachlorobutadiene	0.145	0.188		29.7	
Caprolactam	0.122	0.123		0.8	
4-Chloro-3-methylphenol	0.311	0.371	0.200	19.3	25.0
2-Methylnaphthalene	0.649	0.721	0.400	11.1	25.0
Hexachlorocyclopentadiene	0.179	0.145		-19.0	
2,4,6-Trichlorophenol	0.359	0.392	0.200	9.2	25.0
2,4,5-Trichlorophenol	0.392	0.427	0.200	8.9	25.0
1,1'-Biphenyl	1.378	1.472		6.8	
2-Chloronaphthalene	1.112	1.278	0.800	14.9	25.0
2-Nitroaniline	0.368	0.410		11.4	
Dimethylphthalate	1.294	1.429		10.4	
2,6-Dinitrotoluene	0.331	0.368	0.200	11.2	25.0
Acenaphthylene	1.892	1.993	0.900	5.3	25.0
3-Nitroaniline	0.352	0.411		16.8	
Acenaphthene	1.155	1.218	0.900	5.5	25.0
2,4-Dinitrophenol	0.145	0.160		10.3	
4-Nitrophenol	0.104	0.132		26.9	
Dibenzofuran	1.671	1.831	0.800	9.6	25.0

All other compounds must meet a minimum RRF of 0.010.

7LCE

LOW CONCENTRATION WATER SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMCHEM Contract: OLC03-REVS

Lab [illegible] Case No.: Client No.: SDG No.: 7829

Instrument ID: 5972HP60 Calibration Date: 10/06/2005 Time: 0921

Lab File ID: 1006A60 Init. Calib. Date(s): 03/10/2005 03/10/2005

EPA Sample No. (SSTD020##): SSTD020AU Init. Calib. Times: 0902 1224

GC Column: DB-5MS ID: 0.32(MM)

COMPOUND	$\overline{RRF}$	RRF20	MIN RRF	%D	MAX %D
2,4-Dinitrotoluene	0.439	0.488	0.200	11.2	30.0
Diethylphthalate	1.348	1.463		8.5	
Fluorene	1.366	1.556	0.900	13.9	25.0
4-Chlorophenyl-phenylether	0.558	0.594	0.400	6.5	25.0
4-Nitroaniline	0.334	0.369		10.5	
4,6-Dinitro-2-methylphenol	0.173	0.167		-3.5	
N-nitrosodiphenylamine(1)	0.636	0.617		-3.0	
1,2,4,5-Tetrachlorobenzene	0.527	0.545		3.4	
4-Bromophenyl-phenylether	0.204	0.238	0.100	16.7	25.0
Hexachlorobenzene	0.240	0.277	0.100	15.4	25.0
Atrazine	0.212	0.246		16.0	
Pentachlorophenol	0.106	0.085	0.050	-19.8	25.0
Phenanthrene	1.145	1.170	0.700	2.2	25.0
Anthracene	1.124	1.122	0.700	-0.2	25.0
Di-n-butylphthalate	1.500	1.357		-9.5	
Fluoranthene	1.095	1.131	0.600	3.3	25.0
Pyrene	1.482	1.370	0.600	-7.6	25.0
Butylbenzylphthalate	0.853	0.796		-6.7	
3,3'-Dichlorobenzidine	0.328	0.317		-3.4	
Benzo(a)anthracene	1.238	1.307	0.800	5.6	25.0
Chrysene	1.191	1.210	0.700	1.6	25.0
Bis(2-Ethylhexyl)phthalate	1.257	1.198		-4.7	
Di-n-octylphthalate	2.789	2.042		-26.8	
Benzo(b)fluoranthene	1.763	1.283	0.700	-27.2	25.0
Benzo(k)fluoranthene	1.683	1.658	0.700	-1.5	25.0
Benzo(a)pyrene	1.399	1.228	0.700	-12.2	25.0
Indeno(1,2,3-cd)pyrene	1.183	1.390	0.500	17.5	25.0
Dibenzo(a,h)anthracene	1.154	1.239	0.400	7.4	25.0
Benzo(g,h,i)perylene	1.217	1.229	0.500	1.0	25.0

(1) Cannot be separated from Diphenylamine
All other compounds must meet a minimum RRF of 0.010.

7LCF

LOW CONCENTRATION WATER SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Instrument ID: 5972HP60 Calibration Date: 10/06/2005 Time: 0921

Lab File ID: HG051006A60 Init. Calib. Date(s): 03/10/2005 03/10/2005

EPA Sample No.(SSTD020##): SSTD020AU Init. Calib. Times: 0902 1224

GC Column: RTX-5MS ID: 0.32(MM)

COMPOUND	$\overline{RRF}$	RRF20	MIN RRF	%D	MAX %D
Phenol-d5	1.747	1.825		4.5	
bis-(2-Chloroethyl)ether-d8	1.092	1.125		3.0	
2-Chlorophenol-d4	1.372	1.413		3.0	
4-Methylphenol-d8	1.383	1.533		10.8	
Nitrobenzene-d5	0.179	0.182		1.7	
2-Nitrophenol-d4	0.195	0.221		13.3	
2,4-Dichlorophenol-d3	0.298	0.370		24.2	
4-Chloroaniline-d4	0.411	0.495		20.4	
Dimethylphthalate-d6	1.350	1.493		10.6	
Acenaphthylene-d8	1.853	2.030		9.6	
4-Nitrophenol-d4	0.245	0.196		-20.0	
Fluorene-d10	1.097	1.224		11.6	
4,6-Dinitro-2-methylphenol-d2	0.171	0.166		-2.9	
Anthracene-d10	1.005	0.995		-1.0	
Pyrene-d10	1.331	1.253		-5.9	
Benzo(a)pyrene-d12	1.260	1.106		-12.2	

COPY

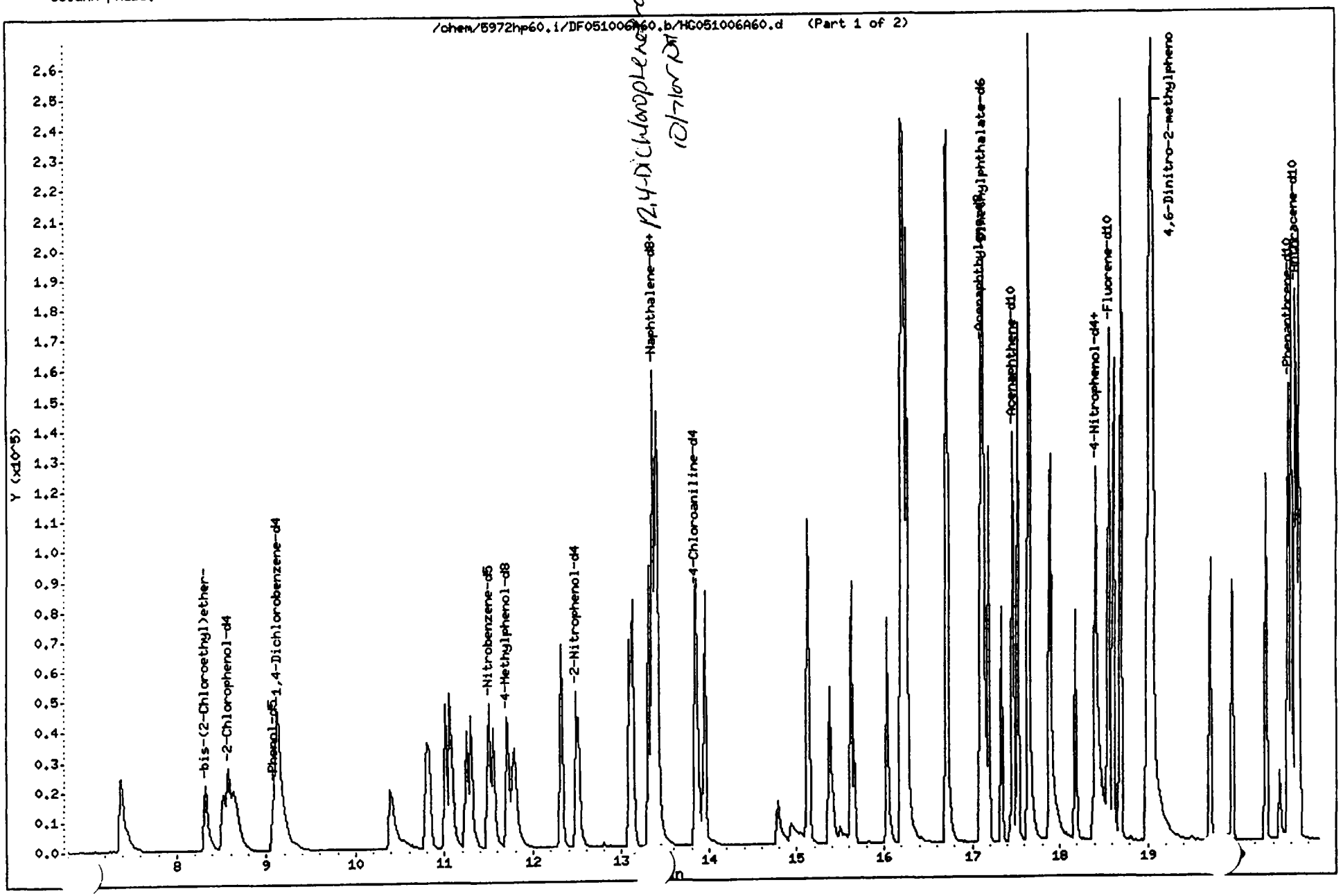
ORIGINAL DOCUMENTS INCLUDED IN CSF-_____

SIGNATURE_____DATE_____

Data File: /chem/5972hp60.i/DF051006A60.b/HC051006A60.d
Date : 06-OCT-2005 09:21
Client ID: SSTD020AU
Sample Info: SSTD020AU:917
Volume Injected (uL): 1.0
Column phase: RTX-5HS

Instrument: 5972hp60.i

Operator: 917
Column diameter: 0.32



COPY

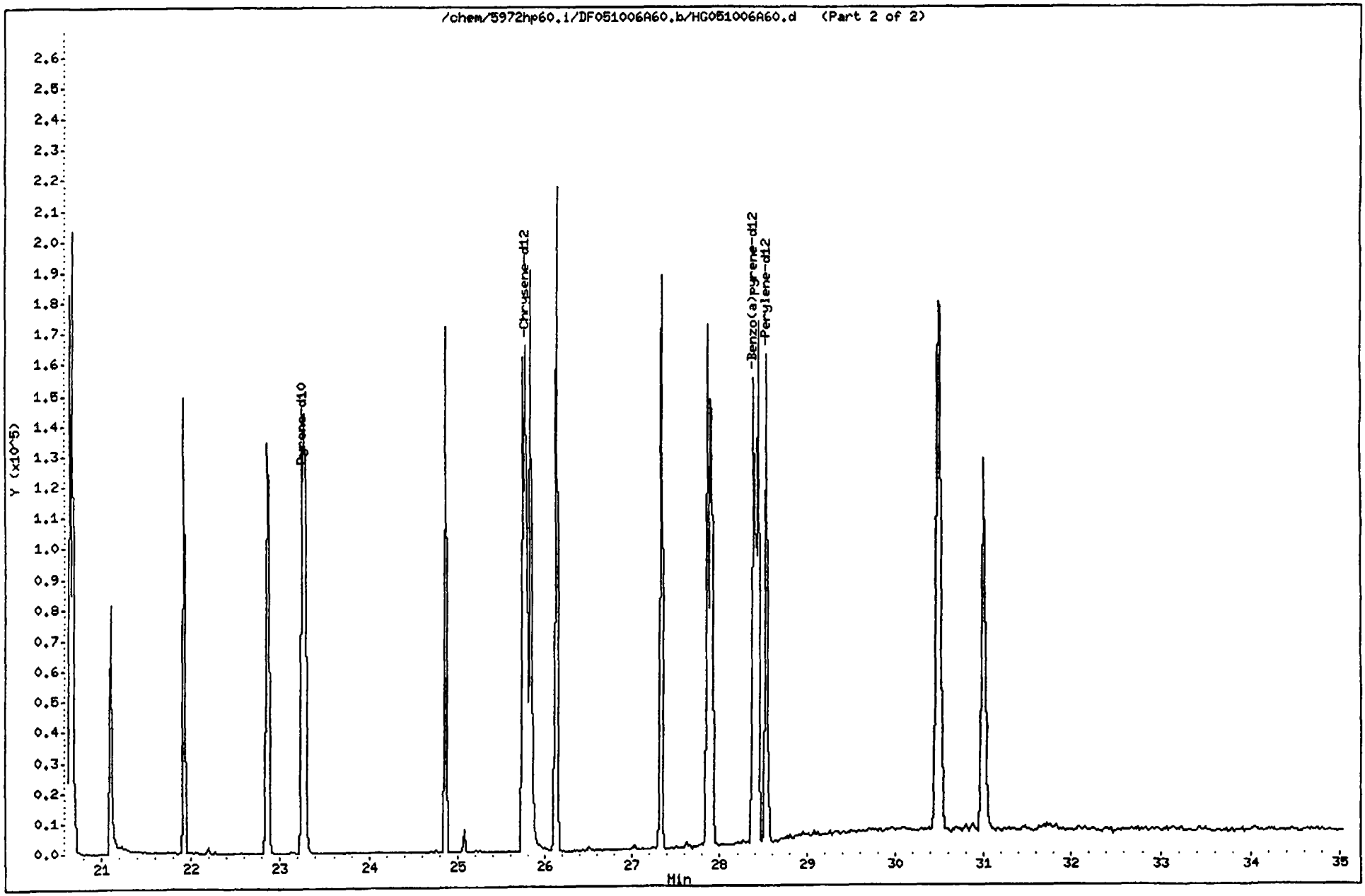
ORIGINAL DOCUMENTS INCLUDED IN CSF-_____

SIGNATURE_____DATE_____

Data File: /chem/5972hp60.i/DF051006A60.b/HG051006A60.d
Date : 06-OCT-2005 09:21
Client ID: SSTD020AU
Sample Info: SSTD020AU:917
Volume Injected (uL): 1.0
Column phase: RTX-5MS

Instrument: 5972hp60.i

Operator: 917
Column diameter: 0.32



Data File: /chem/5972hp60.i/DF051006A60.b/HG051006A60.d
Report Date: 07-Oct-2005 10:59

CompuChem

OLC03.0 + REVISIONS QUANT AND RATIO REPORT

Data file : /chem/5972hp60.i/DF051006A60.b/HG051006A60.d
Lab Smp Id: SSTD020AU Client Smp ID: SSTD020AU
Inj Date : 06-OCT-2005 09:21
Operator : 917 Inst ID: 5972hp60.i
Smp Info : SSTD020AU:917
Misc Info :
Comment :
Method : /chem/5972hp60.i/DF051006A60.b/OLC03v5.m
Meth Date : 07-Oct-2005 10:57 henning Quant Type: ISTD
Cal Date : 06-OCT-2005 09:21 Cal File: HG051006A60.d
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: OLC03.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/(Vo * Vi) * CpndVariable

Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)	SIMILARITY
* 1	1,4-Dichlorobenzene-d4	152	9.130	9.130	(1.000)	22099	20.0000		
* 2	Naphthalene-d8	136	13.359	13.359	(1.000)	92133	20.0000		8783
* 3	Acenaphthene-d10	164	17.453	17.453	(1.000)	59801	20.0000		7889
* 4	Phenanthrene-d10	188	20.566	20.566	(1.000)	102328	20.0000		8774
* 5	Chrysene-d12	240	25.777	25.777	(1.000)	88226	20.0000		8317
* 6	Perylene-d12	264	28.534	28.534	(1.000)	96476	20.0000		8444
$ 7	Phenol-d5	99	9.079	9.079	(0.994)	40326	20.0000	21	0(M)
$ 8	bis-(2-Chloroethyl)ether-d8	67	8.317	8.317	(0.911)	24865	20.0000	21	9087
$ 9	2-Chlorophenol-d4	132	8.571	8.571	(0.939)	31227	20.0000	21	8813
$ 10	4-Methylphenol-d8	113	11.701	11.701	(1.282)	33878	20.0000	22	9449
$ 11	Nitrobenzene-d5	128	11.498	11.498	(0.861)	16750	20.0000	20	8845
$ 12	2-Nitrophenol-d4	143	12.479	12.479	(0.934)	20319	20.0000	23	9157
$ 13	2,4-Dichlorophenol-d3	165	13.359	13.359	(1.000)	34132	20.0000	25	7559
$ 14	4-Chloroaniline-d4	131	13.833	13.833	(1.035)	45594	20.0000	24	9151
$ 15	Dimethylphthalate-d6	166	17.132	17.132	(0.982)	89303	20.0000	22	9166
$ 16	Acenaphthylene-d8	160	17.098	17.098	(0.980)	121387	20.0000	22	9224
$ 17	4-Nitrophenol-d4	143	18.400	18.400	(1.054)	11740	20.0000	16	6739
$ 18	Fluorene-d10	176	18.553	18.553	(1.063)	73202	20.0000	22	9546
$ 19	4,6-Dinitro-2-methylphenol-d2	200	19.026	19.026	(0.925)	17013	20.0000	19	7605

10/7/05 DH

Data File: /chem/5972hp60.i/DF051006A60.b/HG051006A60.d
Report Date: 07-Oct-2005 10:59

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)	SIMILARITY
$ 20 Anthracene-d10	188	20.650	20.650	(1.004)	101864	20.0000	20	9442(H)
$ 21 Pyrene-d10	212	23.256	23.256	(0.902)	110548	20.0000	19	9239
$ 22 Benzo(a)pyrene-d12	264	28.382	28.382	(0.995)	106739	20.0000	18	8273(H)
23 Benzaldehyde	77	7.387	7.387	(0.809)	26049	20.0000	17	7889
24 Phenol	94	9.146	9.146	(1.002)	39167	20.0000	19	8713
25 bis(2-Chloroethyl)ether	93	8.520	8.520	(0.933)	27878	20.0000	19	8767
26 2-Chlorophenol	128	8.639	8.639	(0.946)	28710	20.0000	19	7102
27 2-Methylphenol	108	11.244	11.244	(1.232)	31349	20.0000	21	
28 2,2'-oxybis(1-Chloropropane)	45	10.804	10.804	(1.183)	62656	20.0000	21	
30 Acetophenone	105	11.058	11.058	(1.211)	48921	20.0000	24	8580
31 4-Methylphenol	108	11.786	11.786	(1.291)	33244	20.0000	21	
32 N-Nitroso-di-n-propylamine	70	11.295	11.295	(1.237)	18315	20.0000	20	7212
33 Hexachloroethane	117	11.007	11.007	(1.206)	16666	20.0000	23	8926
34 Nitrobenzene	77	11.549	11.549	(0.864)	34703	20.0000	17	8449
35 Isophorone	82	12.310	12.310	(0.921)	64025	20.0000	20	8553
36 2-Nitrophenol	139	12.513	12.513	(0.937)	20312	20.0000	21	9028
37 2,4-Dimethylphenol	107	13.088	13.088	(0.980)	31311	20.0000	22	9021
38 bis(2-Chloroethoxy)methane	93	13.122	13.122	(0.982)	48371	20.0000	22	8816
39 2,4-Dichlorophenol	162	13.393	13.393	(1.003)	31952	20.0000	24	
40 Naphthalene	128	13.393	13.393	(1.003)	101804	20.0000	22	8967
41 4-Chloroaniline	127	13.850	13.850	(1.037)	44919	20.0000	23	9147
42 Hexachlorobutadiene	225	13.951	13.951	(1.044)	17359	20.0000	26	9163
43 Caprolactam	113	14.780	14.780	(1.106)	11337	20.0000	20	8700(M)
44 4-Chloro-3-methylphenol	107	15.372	15.372	(1.151)	34183	20.0000	24	9114
45 2-Methylnaphthalene	142	15.118	15.118	(1.132)	66473	20.0000	22	
46 1,2,4,5 Tetrachlorobenzene	216	15.626	15.626	(0.895)	32609	20.0000	21	9648
47 Hexachlorocyclopentadiene	237	15.660	15.660	(0.897)	8658	20.0000	16	8102
49 2,4,6-Trichlorophenol	196	16.032	16.032	(0.919)	23445	20.0000	22	
50 2,4,5-Trichlorophenol	196	16.201	16.201	(0.928)	102143	80.0000	87	
51 1,1'-Biphenyl	154	16.252	16.252	(0.931)	88037	20.0000	21	7953
52 2-Chloronaphthalene	162	16.218	16.218	(0.929)	76402	20.0000	23	9025
53 2-Nitroaniline	65	16.709	16.709	(0.957)	98078	80.0000	89	8635
54 Dimethylphthalate	163	17.182	17.182	(0.984)	85458	20.0000	22	7781
55 2,6-Dinitrotoluene	165	17.335	17.335	(0.993)	22018	20.0000	22	8240
56 Acenaphthylene	152	17.115	17.115	(0.981)	119170	20.0000	21	9289
57 3-Nitroaniline	138	17.656	17.656	(1.012)	98257	80.0000	93	7981
58 Acenaphthene	153	17.521	17.521	(1.004)	72831	20.0000	21	9250
59 2,4-Dinitrophenol	184	17.910	17.910	(1.026)	38365	80.0000	89	9137(M)
60 4-Nitrophenol	109	18.400	18.400	(1.054)	31538	80.0000	100	(M)
61 Dibenzofuran	168	17.876	17.876	(1.024)	109492	20.0000	22	9013
62 2,4-Dinitrotoluene	165	18.180	18.180	(1.042)	29197	20.0000	22	8627
63 Diethylphthalate	149	18.688	18.688	(1.071)	87489	20.0000	22	8334
64 Fluorene	166	18.620	18.620	(1.067)	93024	20.0000	23	0(M)
65 4-Chlorophenyl-phenylether	204	18.688	18.688	(1.071)	35509	20.0000	21	7332
66 4-Nitroaniline	138	18.993	18.993	(1.088)	88372	80.0000	88	(M)
67 4,6-Dinitro-2-methylphenol	198	19.043	19.043	(0.926)	68374	80.0000	77	
68 N-nitrosodiphenylamine	169	19.009	19.009	(0.924)	63098	20.0000	19	7968

Data File: /chem/5972hp60.i/DF051006A60.b/HG051006A60.d
Report Date: 07-Oct-2005 10:59

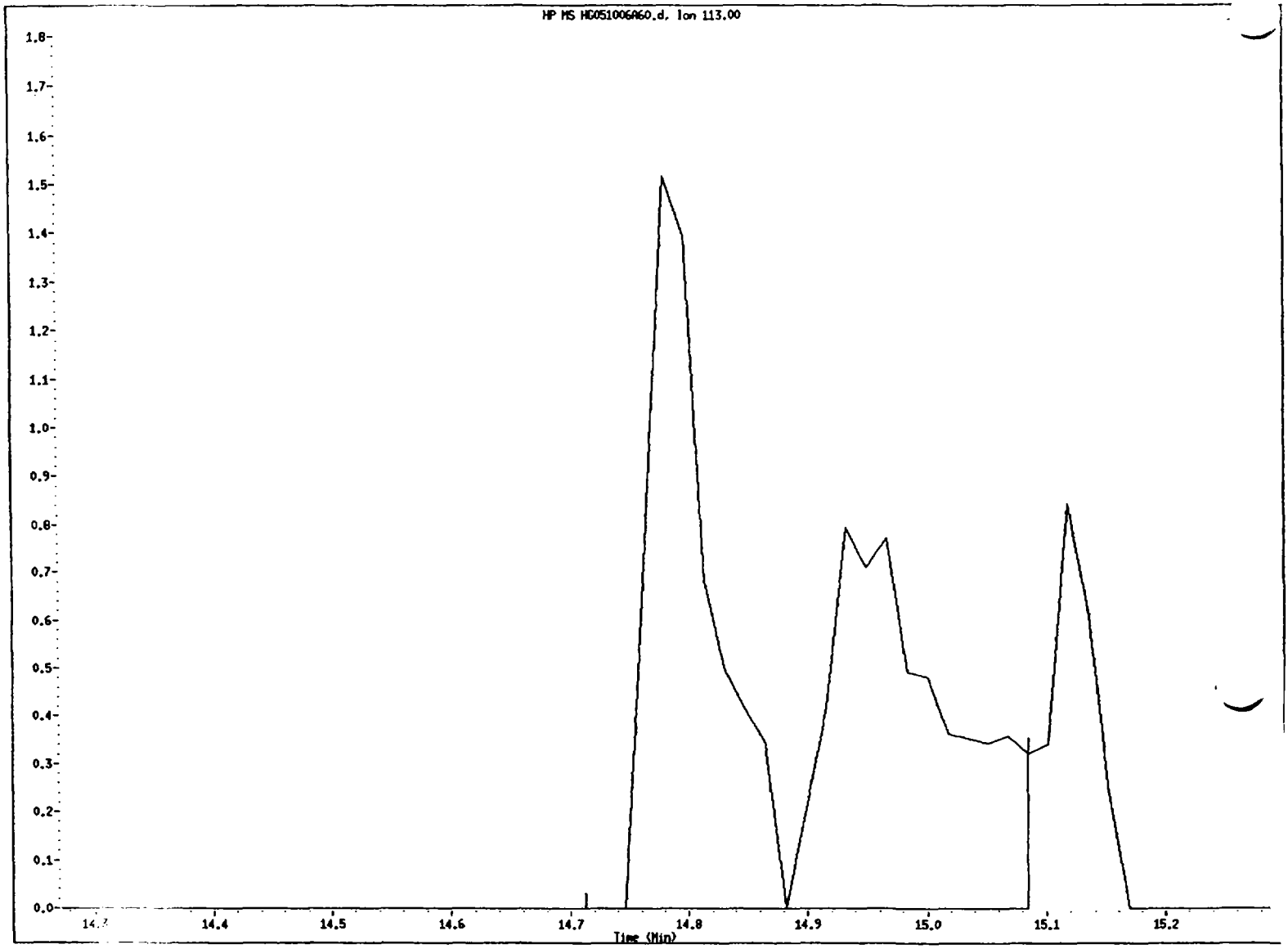
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)	SIMILARITY	
69 4-Bromophenyl-phenylether	248	19.703	19.703	(0.958)	24304	20.0000	23	9018	
70 Hexachlorobenzene	284	19.957	19.957	(0.970)	28340	20.0000	23	9401	
71 Atrazine	200	20.312	20.312	(0.988)	25151	20.0000	23	8721	
72 Pentachlorophenol	266	20.464	20.464	(0.995)	8672	20.0000	16	9561	
73 Phenanthrene	*178*	*20.600*	*20.600*	(1.002)	119707	20.0000	20		
74 Anthracene	178	20.684	20.684	(1.006)	114855	20.0000	20		
75 Di-n-butylphthalate	149	21.919	21.919	(1.066)	138877	20.0000	18	9248	
76 Fluoranthene	202	22.867	22.867	(1.112)	115747	20.0000	21		
77 Pyrene	202	23.290	23.290	(0.904)	120881	20.0000	18		
78 Butylbenzylphthalate	149	24.863	24.863	(0.965)	70268	20.0000	19	8588	
79 3,3'-Dichlorobenzidine	252	25.861	25.861	(1.003)	27965	20.0000	19	8991(M)	2
80 bis(2-Ethylhexyl)phthalate	149	26.132	26.132	(1.014)	105712	20.0000	19	9203	2
81 Benzo(a)anthracene	228	25.743	25.743	(0.999)	115342	20.0000	21		
82 Chrysene	228	25.827	25.827	(1.002)	106745	20.0000	20		
83 Di-n-octylphthalate	149	27.333	27.333	(0.958)	196989	20.0000	15	8882	
84 Benzo(b)fluoranthene	252	27.857	27.857	(0.976)	123800	20.0000	15		
85 Benzo(k)fluoranthene	252	27.908	27.908	(0.978)	159944	20.0000	20		
86 Benzo(a)pyrene	252	28.433	28.433	(0.996)	118515	20.0000	18	8872	
87 Indeno(1,2,3-cd)pyrene	276	30.463	30.463	(1.068)	134144	20.0000	24	8237(M)	2
88 Dibenzo(a,h)anthracene	278	30.497	30.497	(1.069)	119493	20.0000	21	8488	
89 Benzo(g,h,i)perylene	276	30.987	30.987	(1.086)	118559	20.0000	20	8541	

Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

10/7/05 DH

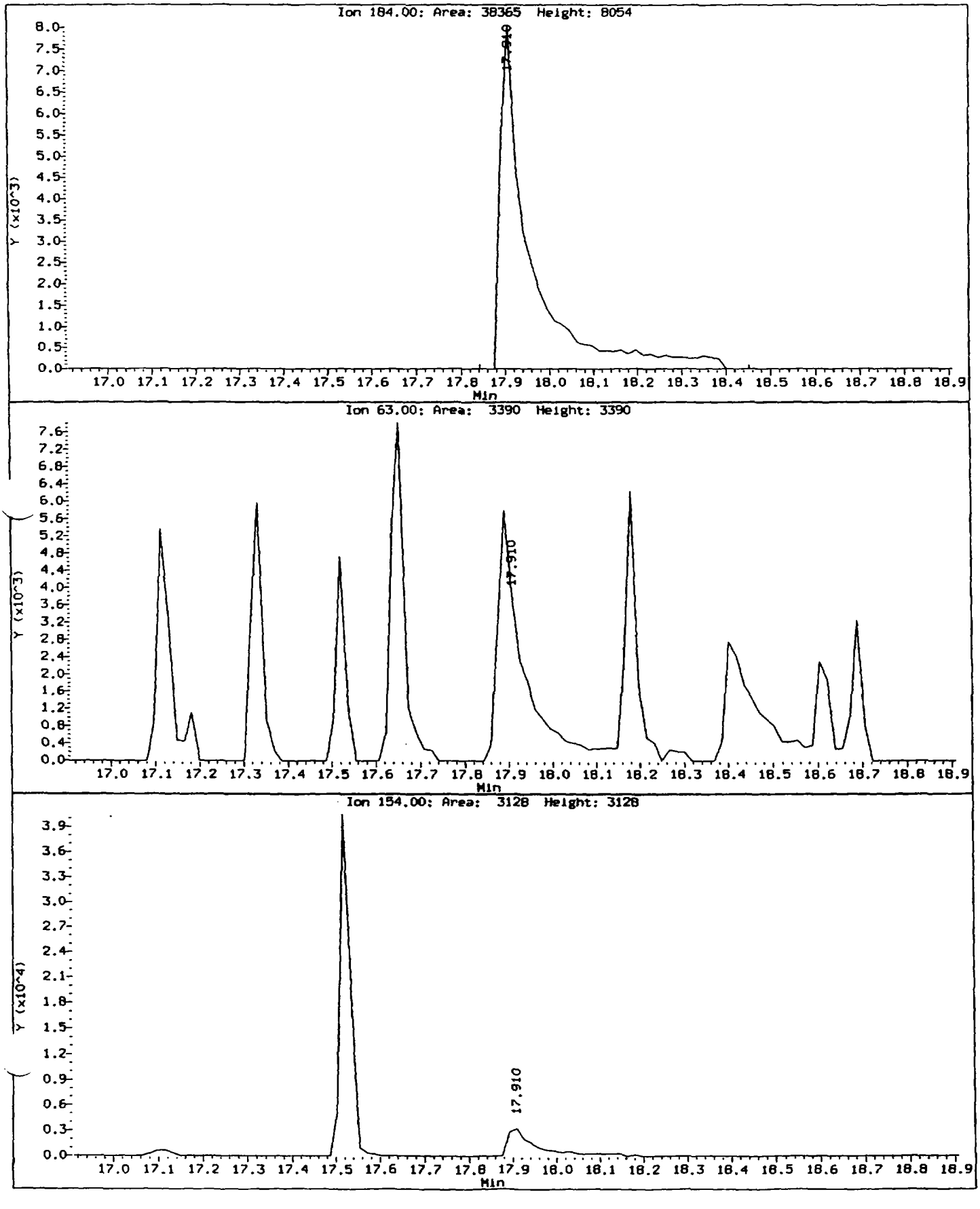
Caprolactam CAS Number 105-60-2 Area = 11337 Manually integrated



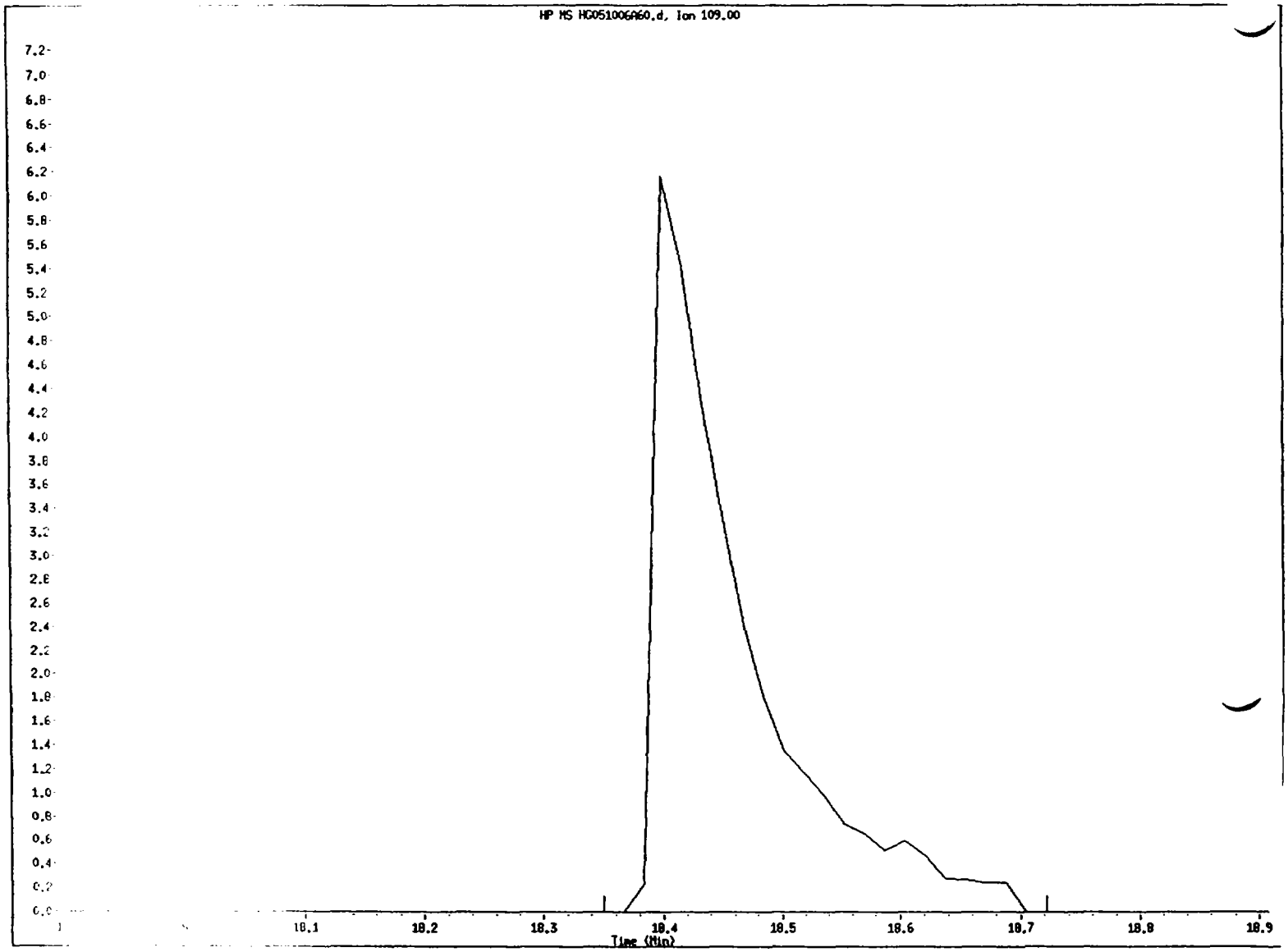
File name: /chem/5972hp60.i/DF051006A60.b/HG051006A60.d
Client ID: SSTD020AU
Instrument ID: 5972hp60.i
Injection Date and Time: 06-OCT-2005 09:21
Retention Time: 14.78
Operator ID: 917

Data File: /chem/5972hp60.i/DF051006A60.b/HG051006A60.d
Injection Date: 06-OCT-2005 09:21
Instrument: 5972hp60.i
Client Sample ID: SSTD020AU

Compound: 2,4-Dinitrophenol
CAS Number: 51-28-5

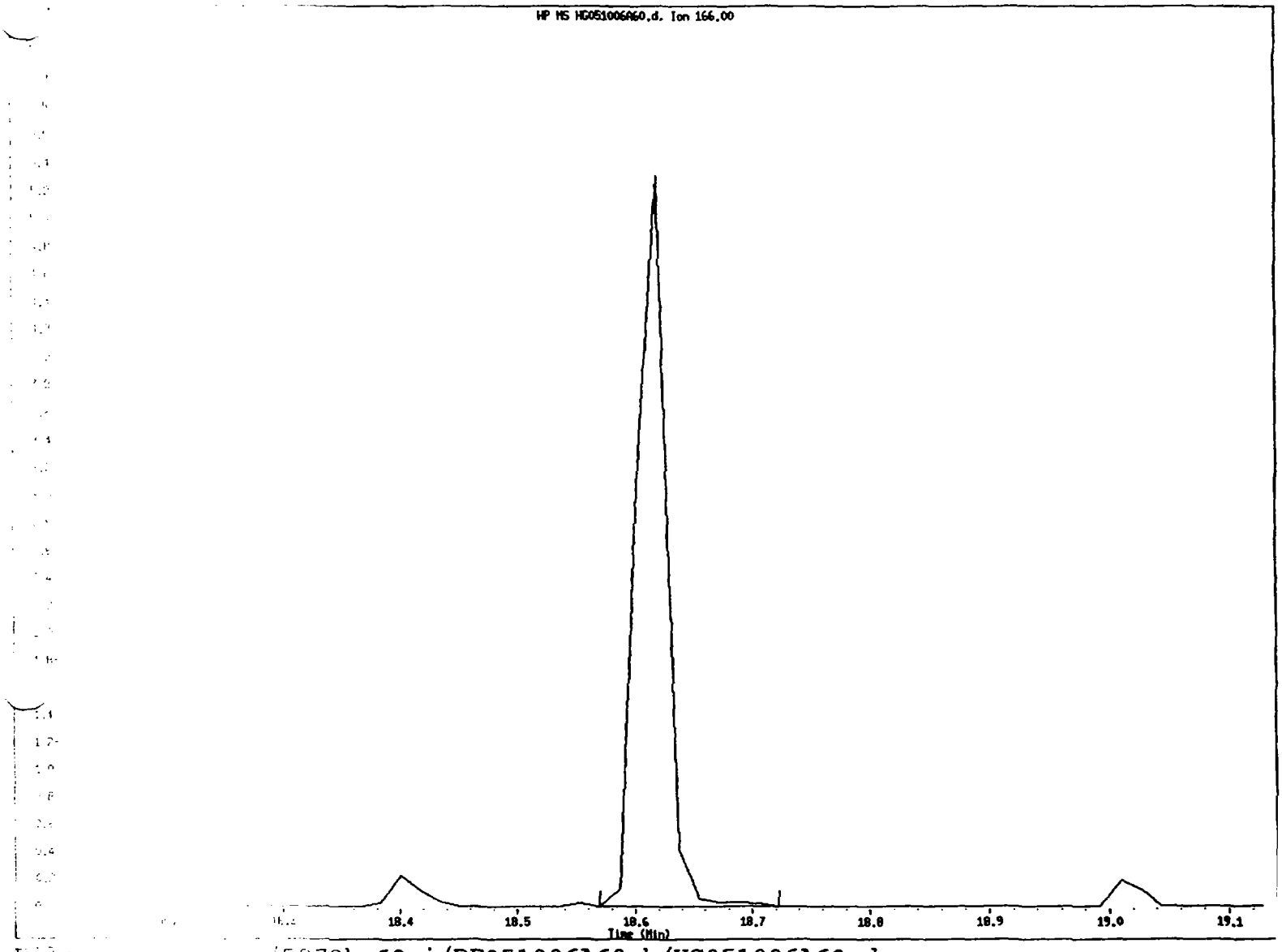


4-Ni[illegible] CAS Number 100-02-7 Area = 31538 Manually integrated



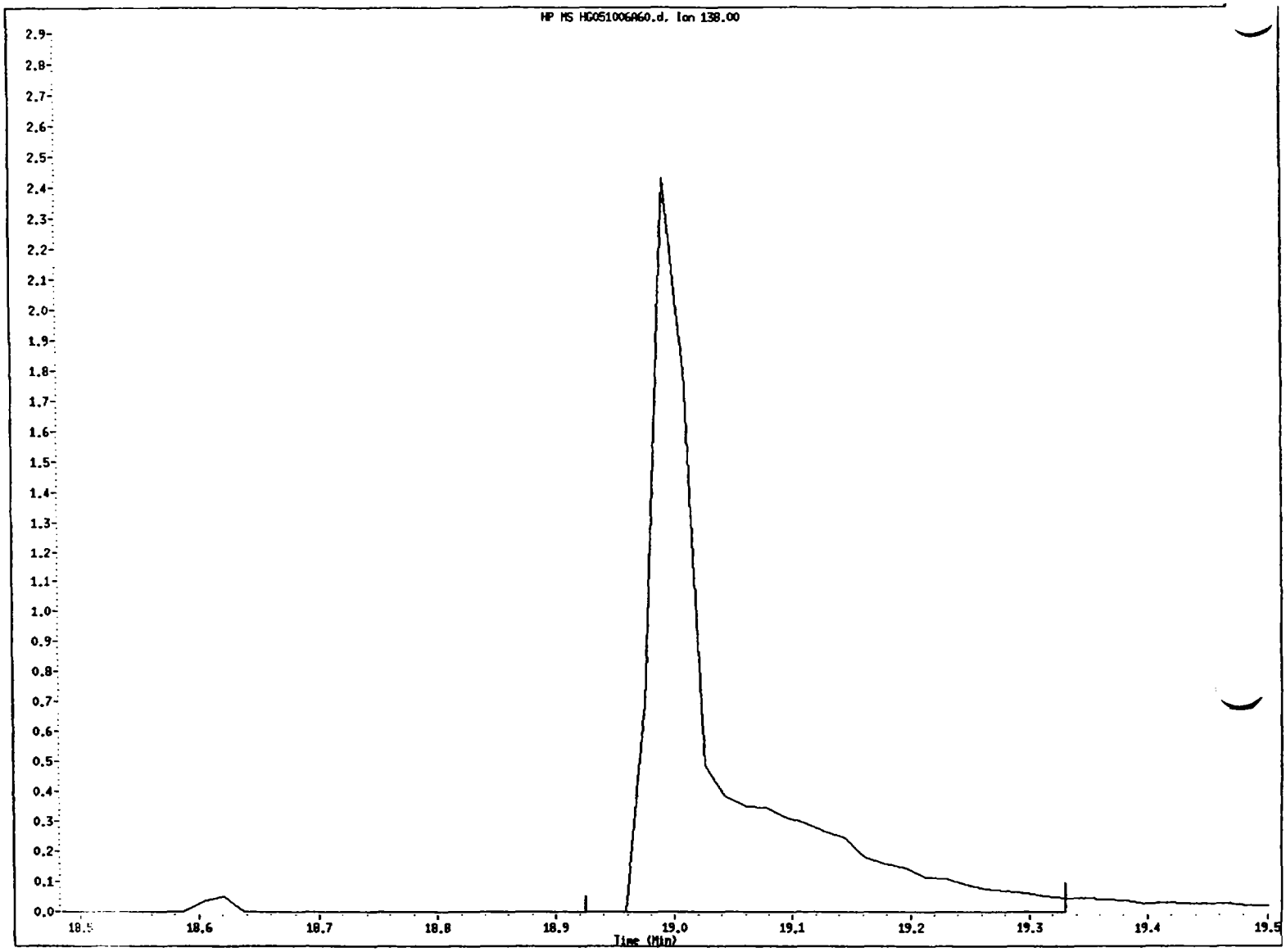
File: [illegible]chem/5972hp60.i/DF051006A60.b/HG051006A60.d
Client ID: [illegible]0AU
Instrument ID: 5972hp60.i
Injection Date and Time: 06-OCT-2005 09:21
Retention Time: 18.40
Operator ID: 917

[illegible] Number 86-73-7 Area = 93024 Manually integrated



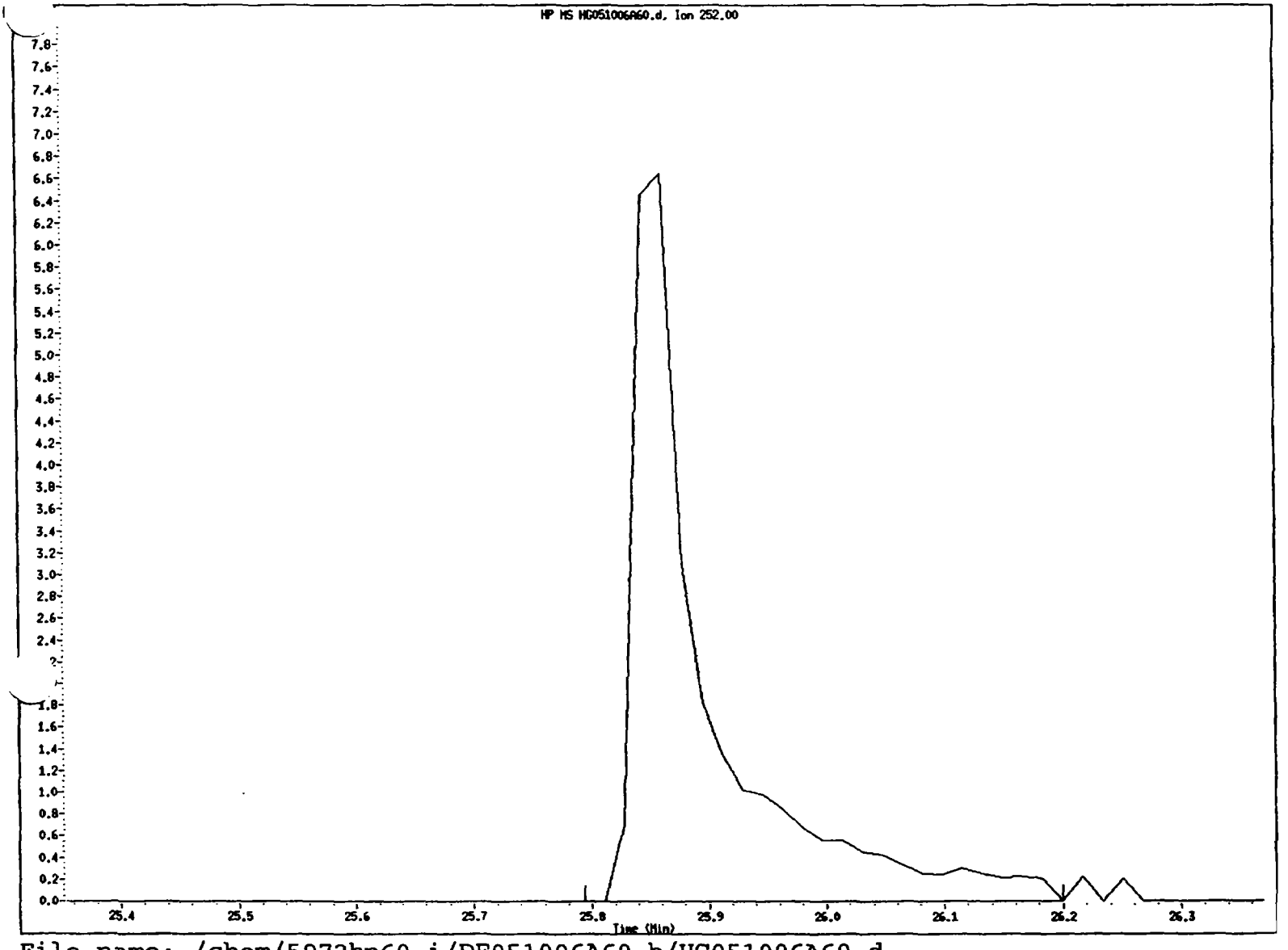
File [illegible]/5972hp60.i/DF051006A60.b/HG051006A60.d
Client ID: [illegible]020AU
Instrument ID: 5972hp60.i
Injection Date and Time: 06-OCT-2005 09:21
Retention Time: 18.62
Operator ID: [illegible]

4-Nitroaniline CAS Number 100-01-6 Area = 88372 Manually integrated



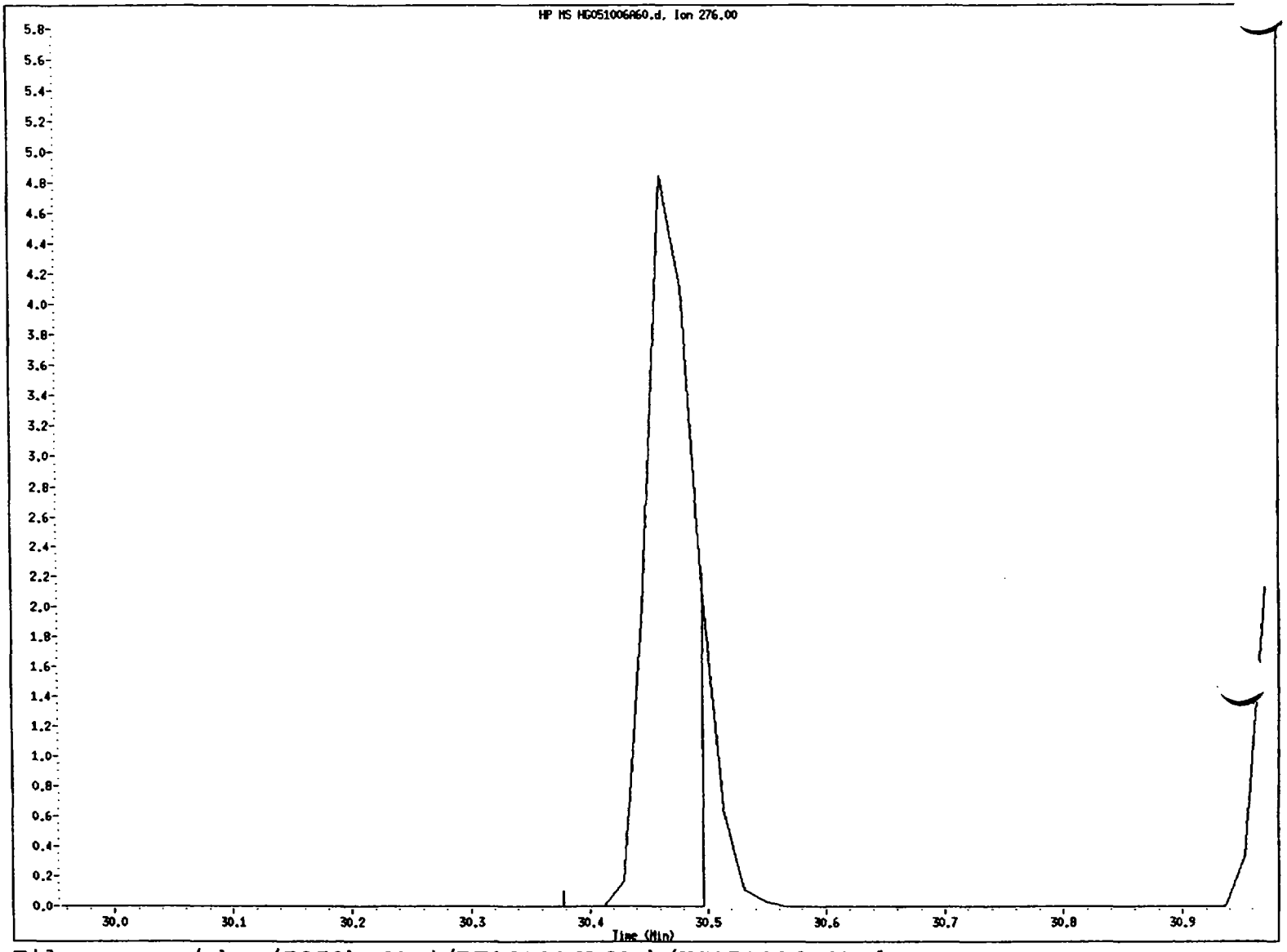
File name: /chem/5972hp60.i/DF051006A60.b/HG051006A60.d
Client ID: SSTD020AU
Instrument ID: 5972hp60.i
Injection Date and Time: 06-OCT-2005 09:21
Retention Time: 18.99
Operator ID: 917

3,3'-Dichlorobenzidine CAS Number 91-94-1 Area = 27965 Manually integrated



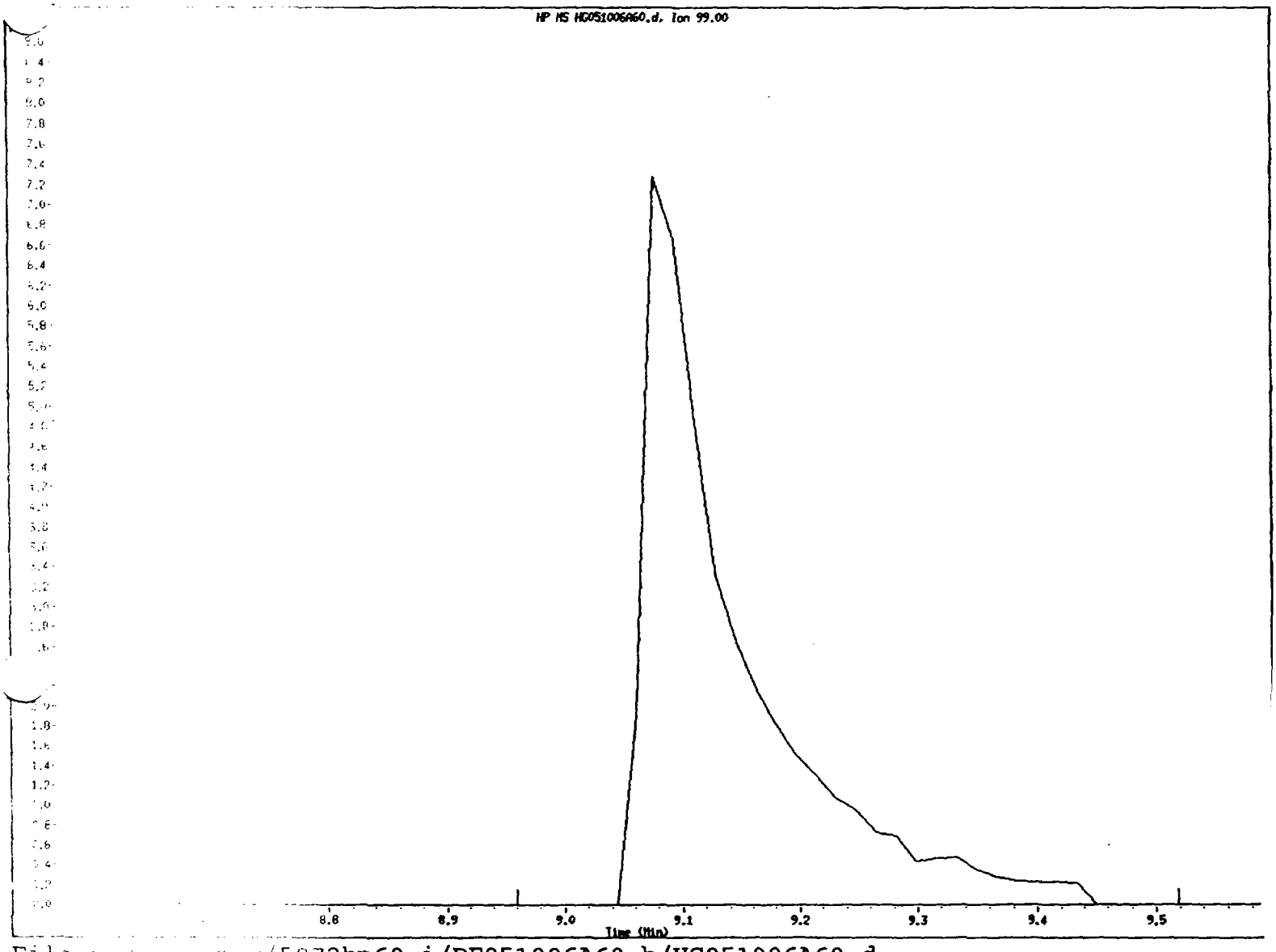
File name: /chem/5972hp60.i/DF051006A60.b/HG051006A60.d
Client ID: SSTD020AU
Instrument ID: 5972hp60.i
Injection Date and Time: 06-OCT-2005 09:21
Retention Time: 25.86
Operator ID: 917

Indeno(1,2,3-cd)pyrene CAS Number 193-39-5 Area = 134144 Manually integrated



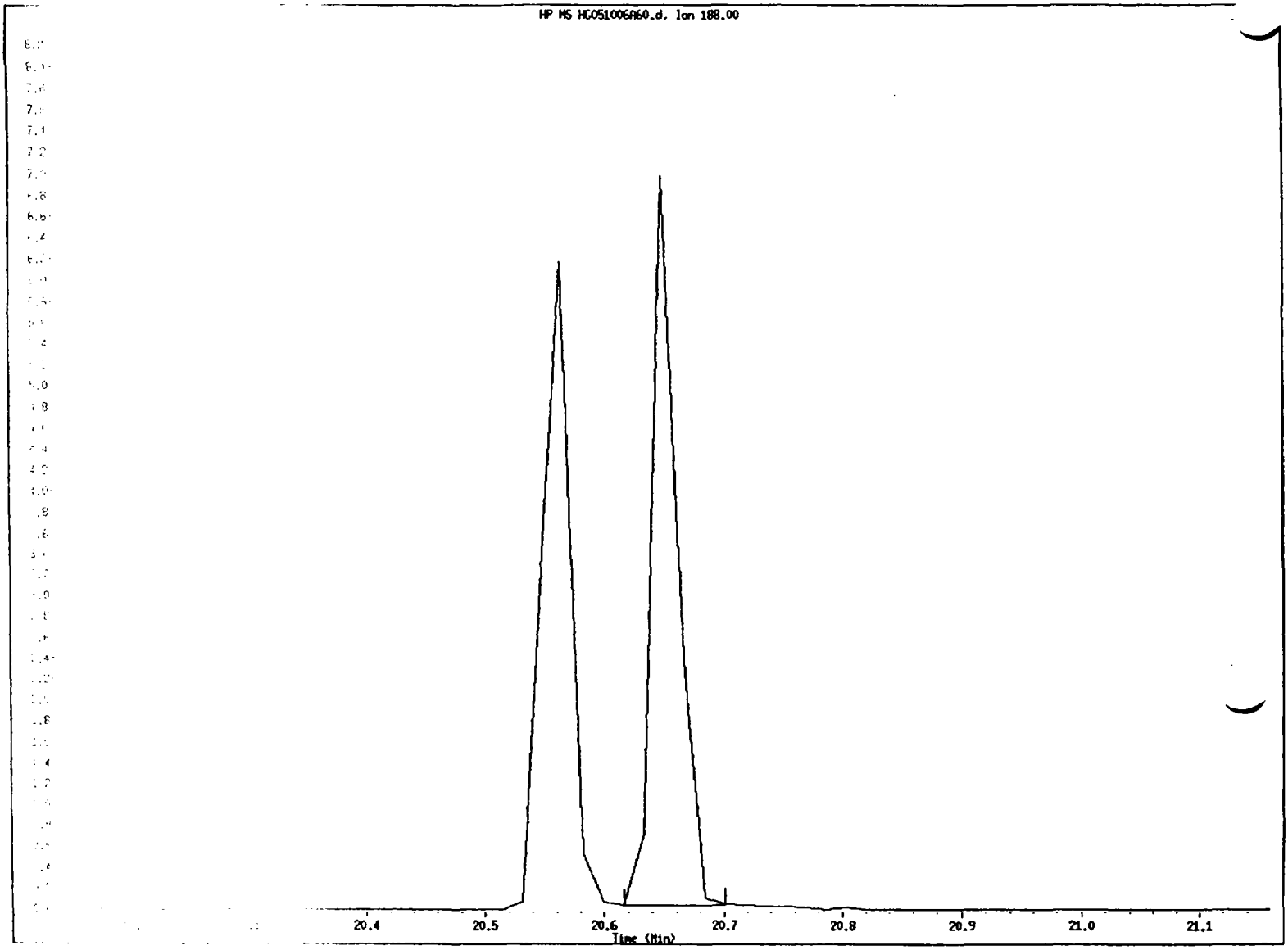
File name: /chem/5972hp60.i/DF051006A60.b/HG051006A60.d
Client ID: SSTD020AU
Instrument ID: 5972hp60.i
Injection Date and Time: 06-OCT-2005 09:21
Retention Time: 30.46
Operator ID: 917

Phenol-d6 CAS Number 4165-62-2 Area = 40326 Manually integrated



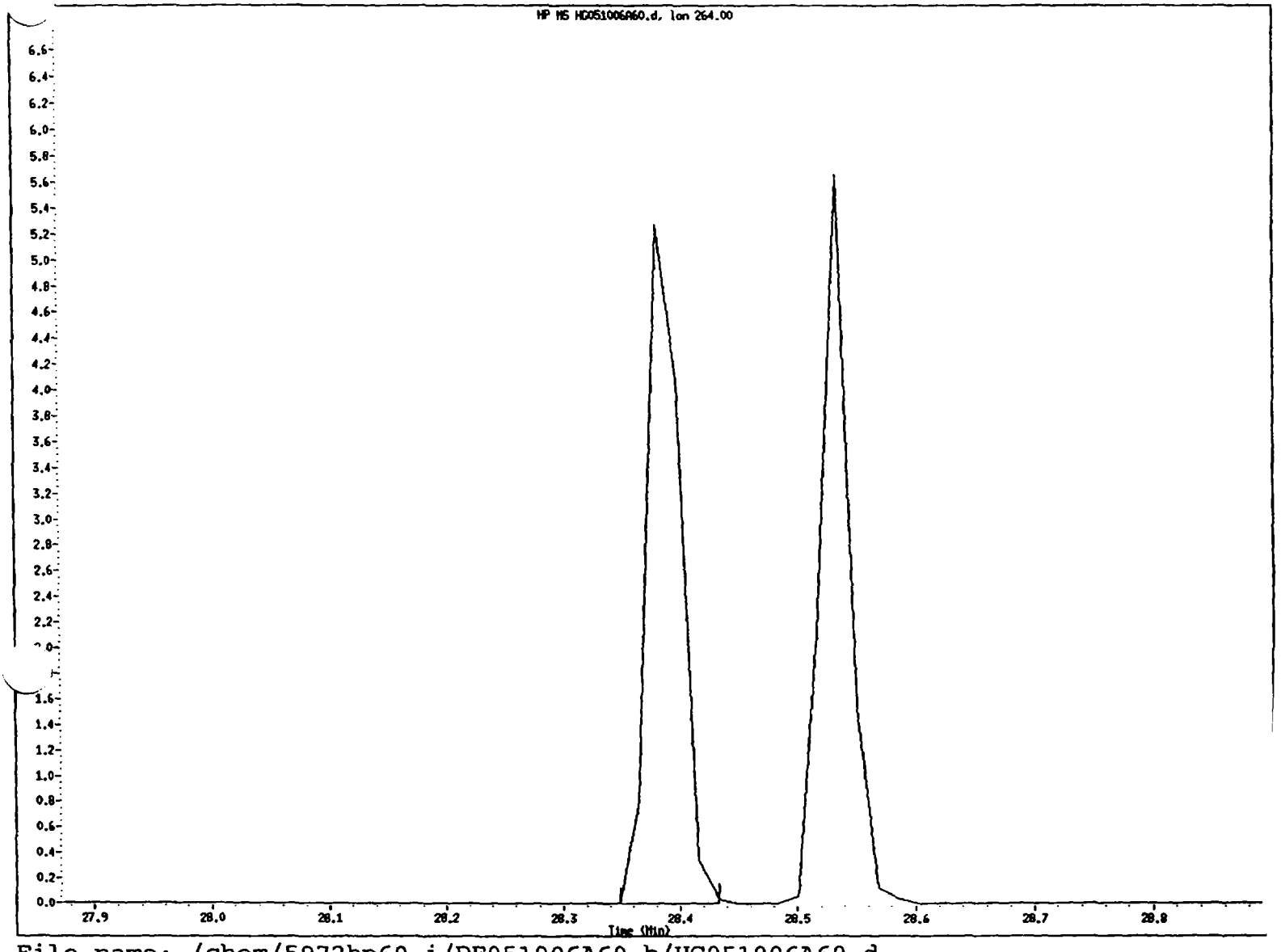
File [illegible]/5972hp60.i/DF051006A60.b/HG051006A60.d
Client [illegible]0AU
Instrument ID: 5972hp60.i
Injection Date and Time: 06-OCT-2005 09:21
Retention Time: 9.08
Operator ID: 917

Ar[illegible] Number 1719-06-8 Area = 101864 User selected hit



F[illegible]2hp60.i/DF051006A60.b/HG051006A60.d
C[illegible] AU
I[illegible]2hp60.i
I[illegible] Time: 06-OCT-2005 09:21
Re[illegible].65
Ope[illegible]

Benzo(a)pyrene-d12 CAS Number 63466-71-7 Area = 106739 User selected hit



File name: /chem/5972hp60.i/DF051006A60.b/HG051006A60.d
Client ID: SSTD020AU
Instrument ID: 5972hp60.i
Injection Date and Time: 06-OCT-2005 09:21
Retention Time: 28.38
Operator ID: 917

COMPUCHEM a division of Liberty Analytical Corp DATE 10/6/05 INITIAL TIME OF TUNE 0858 SHIFT/S(A) ✓ (B)____ (C)____

GC/MS SEMIVOLATILE RUN LOG TIME TUNE EXPIRES 2058 LINKER /METHOD 06C03

COMPUCHEM LOGBOOK 4 V(4) 12 (5972hp60)

PREVENTIVE MAINTENANCE None

	ISTD	FILE NAME	RSTD	DATE	TIME	CLIENT ID#	CASE/SDG#	AMOUNT INJECTED	CHEMIST	COMMENTS(ETC.)/DISPOSITION
1		DFTS7006A60	/	10/6/05	0858	DFSPP	—	2 ul	917	SCD=LCD
2		H6057006A60	/	/ /	0921	SSD020AU	—	1 ul		
3		81781A60	/	/ /	1006	SBLKOE	C0059			
4		788407A60	/	/ /	1052	C0063				
5		788408A60	/	/ /	1138	C0073				
6		788409A60	/	/ /	1224	C0075				
7		788410A60	/	/ /	1309	C0079				
8		81466A60	/	/ /	1355	SBLCNB	87874			
9		788401DA60	/	/ /	1441	C0059DL	C0059			5X
10		788411A60	/	/ /	1527	C0083	↓			
11		81076A60	/	/ /	1612	SBLCNX	VARIOUS			
12	/	81077A60	CT	/ /	1658	SLCSNX	VARIOUS			
13		778402A60	/	/ /	1744	X06G0	X06G0			
14		782901A60	/	/ /	1829	ACSGWPW26	7829			
15		782902A60	/	/ /	1914	ACSGWPWDUP26				
16		782903A60	/	/ /	2000	ACSGWPWBS				
17		782904A60	/	/ √	2045	ACSGWPWTB	↓	↓	√	
18				/ /						
19				/ /		GM 10/7				
20				/ /						
21				/ /						
22				/ /						
23				/ /						
24				/ /						

	Tune	STANDARDS Analytical	Int. Std.	Column Type
Std. ID #	7055	06C03	800	RTX-5MS 0-32 mm
Lot #	57901	57970	57656	

Solvent Lot # BZ9E12

SUPERVISOR APPROVAL Griffin Mitchell

DATE 10/7/05

The presence of the Chemist's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist together with the chemist's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

6/09/05:jad

7LCD

LOW CONCENTRATION WATER SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Instrument ID: 5972HP60 Calibration Date: 10/07/2005 Time: 0840

Lab File ID: HG051007A60 Init. Calib. Date(s): 03/10/2005 03/10/2005

EPA Sample No.(SSTD020##): SSTD020AV Init. Calib. Times: 0902 1224

GC Column: RTX-5MS ID: 0.32(MM)

COMPOUND	$\overline{RRF}$	RRF20	MIN RRF	%D	MAX %D
Benzaldehyde	1.421	1.113		-21.7	
Phenol	1.834	1.824	0.800	-0.5	25.0
bis(2-Chloroethyl)ether	1.331	1.268	0.700	-4.7	25.0
2-Chlorophenol	1.380	1.313	0.800	-4.9	25.0
2-Methylphenol	1.324	1.352	0.700	2.1	25.0
2,2'-oxybis(1-Chloropropane)	2.728	2.715		-0.5	
Acetophenone	1.835	2.093		14.1	
4-Methylphenol	1.430	1.514	0.600	5.9	25.0
N-Nitroso-di-n-propylamine	0.832	0.830	0.500	-0.2	25.0
Hexachloroethane	0.648	0.693	0.300	6.9	25.0
Nitrobenzene	0.451	0.375	0.200	-16.9	25.0
Isophorone	0.680	0.716	0.400	5.3	25.0
2-Nitrophenol	0.208	0.223	0.100	7.2	30.0
,4-Dimethylphenol	0.311	0.330	0.200	6.1	30.0
is(2-Chloroethoxy)methane	0.480	0.509	0.300	6.0	25.0
2,4-Dichlorophenol	0.295	0.343	0.200	16.3	25.0
Naphthalene	1.000	1.101	0.700	10.1	25.0
4-Chloroaniline	0.432	0.505		16.9	
Hexachlorobutadiene	0.145	0.183		26.2	
Caprolactam	0.122	0.154		26.2	
4-Chloro-3-methylphenol	0.311	0.381	0.200	22.5	25.0
2-Methylnaphthalene	0.649	0.715	0.400	10.2	25.0
Hexachlorocyclopentadiene	0.179	0.195		8.9	
2,4,6-Trichlorophenol	0.359	0.404	0.200	12.5	25.0
2,4,5-Trichlorophenol	0.392	0.451	0.200	15.1	25.0
1,1'-Biphenyl	1.378	1.559		13.1	
2-Chloronaphthalene	1.112	1.280	0.800	15.1	25.0
2-Nitroaniline	0.368	0.433		17.7	
Dimethylphthalate	1.294	1.435		10.9	
2,6-Dinitrotoluene	0.331	0.375	0.200	13.3	25.0
Acenaphthylene	1.892	2.008	0.900	6.1	25.0
3-Nitroaniline	0.352	0.409		16.2	
Acenaphthene	1.155	1.236	0.900	7.0	25.0
2,4-Dinitrophenol	0.145	0.146		0.7	
4-Nitrophenol	0.104	0.139		33.7	
Dibenzofuran	1.671	1.873	0.800	12.1	25.0

All other compounds must meet a minimum RRF of 0.010.

7LCE

LOW CONCENTRATION WATER SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Instrument ID: 5972HP60 Calibration Date: 10/07/2005 Time: 0840

Lab File ID: HG051007A60 Init. Calib. Date(s): 03/10/2005 03/10/2005

EPA Sample No.(SSTD020##): SSTD020AV Init. Calib. Times: 0902 1224

GC Column: RTX-5MS ID: 0.32(MM)

COMPOUND	$\overline{RRF}$	RRF20	MIN RRF	%D	MAX %D
2,4-Dinitrotoluene	0.439	0.503	0.200	14.6	30.0
Diethylphthalate	1.348	1.482		9.9	
Fluorene	1.366	1.549	0.900	13.4	25.0
4-Chlorophenyl-phenylether	0.558	0.620	0.400	11.1	25.0
4-Nitroaniline	0.334	0.287		-14.1	
4,6-Dinitro-2-methylphenol	0.173	0.171		-1.2	
N-nitrosodiphenylamine(1)	0.636	0.637		0.2	
1,2,4,5 Tetrachlorobenzene	0.527	0.556		5.5	
4-Bromophenyl-phenylether	0.204	0.233	0.100	14.2	25.0
Hexachlorobenzene	0.240	0.279	0.100	16.3	25.0
Atrazine	0.212	0.264		24.5	
Pentachlorophenol	0.106	0.087	0.050	-17.9	25.0
Phenanthrene	1.145	1.187	0.700	3.7	25.0
Anthracene	1.124	1.116	0.700	-0.7	25.0
Di-n-butylphthalate	1.500	1.455		-3.0	
Fluoranthene	1.095	1.104	0.600	0.8	25.0
Pyrene	1.482	1.317	0.600	-11.1	25.0
Butylbenzylphthalate	0.853	0.795		-6.8	
3,3'-Dichlorobenzidine	0.328	0.296		-9.8	
Benzo(a)anthracene	1.238	1.277	0.800	3.2	25.0
Chrysene	1.191	1.234	0.700	3.6	25.0
bis(2-Ethylhexyl)phthalate	1.257	1.168		-7.1	
Di-n-octylphthalate	2.789	1.934		-30.7	
Benzo(b)fluoranthene	1.763	1.378	0.700	-21.8	25.0
Benzo(k)fluoranthene	1.683	1.465	0.700	-13.0	25.0
Benzo(a)pyrene	1.399	1.207	0.700	-13.7	25.0
Indeno(1,2,3-cd)pyrene	1.183	1.447	0.500	22.3	25.0
Dibenzo(a,h)anthracene	1.154	1.268	0.400	9.9	25.0
Benzo(g,h,i)perylene	1.217	1.266	0.500	4.0	25.0

(1) Cannot be separated from Diphenylamine
All other compounds must meet a minimum RRF of 0.010.

7LCF

LOW CONCENTRATION WATER SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: COMPUCHEM Contract: OLC03-REVS

b Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Instrument ID: 5972HP60 Calibration Date: 10/07/2005 Time: 0840

Lab File ID: HG051007A60 Init. Calib. Date(s): 03/10/2005 03/10/2005

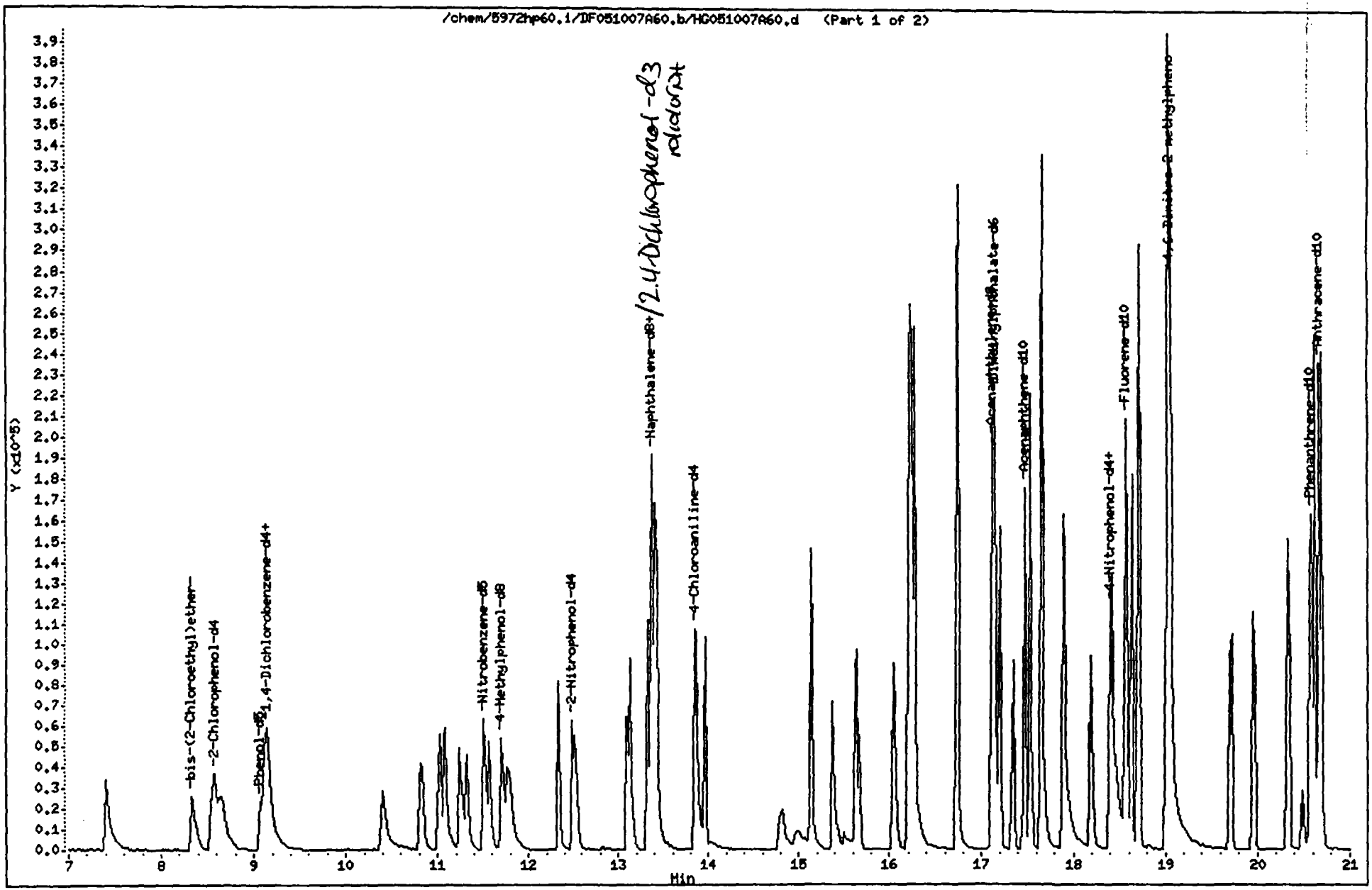
EPA Sample No.(SSTD020##): SSTD020AV Init. Calib. Times: 0902 1224

GC Column: RTX-5MS ID: 0.32(MM)

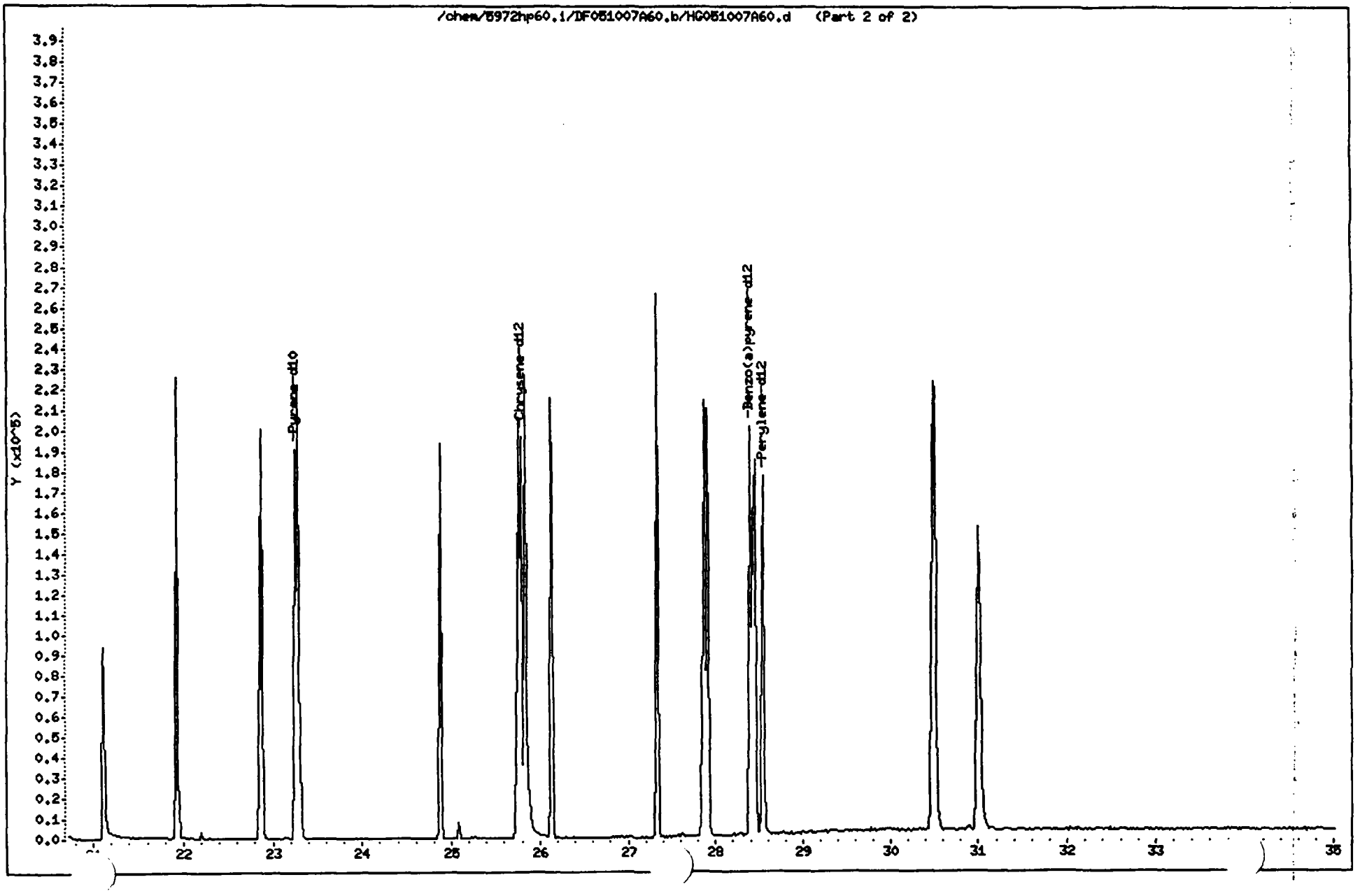
COMPOUND	$\overline{RRF}$	RRF20	MIN RRF	%D	MAX %D
Phenol-d5	1.747	1.849		5.8	
bis-(2-Chloroethyl)ether-d8	1.092	1.124		2.9	
2-Chlorophenol-d4	1.372	1.378		0.4	
4-Methylphenol-d8	1.383	1.538		11.2	
Nitrobenzene-d5	0.179	0.182		1.7	
2-Nitrophenol-d4	0.195	0.220		12.8	
2,4-Dichlorophenol-d3	0.298	0.369		23.8	
4-Chloroaniline-d4	0.411	0.497		20.9	
Dimethylphthalate-d6	1.350	1.479		9.6	
Acenaphthylene-d8	1.853	2.066		11.5	
4-Nitrophenol-d4	0.245	0.215		-12.2	
Fluorene-d10	1.097	1.231		12.2	
4,6-Dinitro-2-methylphenol-d2	0.171	0.173		1.2	
Anthracene-d10	1.005	1.023		1.8	
rene-d10	1.331	1.240		-6.8	
nzo(a)pyrene-d12	1.260	1.097		-12.9	

Data File: /chem/5972hp60.i/DF051007A60.b/HC051007A60.d
Date : 07-OCT-2005 08:40
Client ID: SSTD020AV
Sample Info: SSTD020AV;917
Volume Injected (uL): 1.0
Column phase: RTX-5MS

Instrument: 5972hp60.i
Operator: 917
Column diameter: 0.32



Data File: /chem/5972hp60.i/DF051007A60.b/HC051007A60.d
Date : 07-OCT-2005 08:40
Client ID: SSTD020AV
Instrument: 5972hp60.i
Sample Info: SSTD020AV:917
Volume Injected (uL): 1.0
Operator: 917
Column phase: RTX-5MS
Column diameter: 0.32



Data File: /chem/5972hp60.i/DF051007A60.b/HG051007A60.d
Report Date: 07-Oct-2005 09:22

CompuChem

OLC03.0 + REVISIONS QUANT AND RATIO REPORT

Data file : /chem/5972hp60.i/DF051007A60.b/HG051007A60.d
Lab Smp Id: SSTD020AV Client Smp ID: SSTD020AV
Inj Date : 07-OCT-2005 08:40
Operator : 917 Inst ID: 5972hp60.i
Smp Info : SSTD020AV:917
Misc Info :
Comment :
Method : /chem/5972hp60.i/DF051007A60.b/OLC03v5.m
Meth Date : 07-Oct-2005 09:22 mikhael Quant Type: ISTD
Cal Date : 07-OCT-2005 08:40 Cal File: HG051007A60.d
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: OLC03.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/(Vo * Vi) * CpndVariable

Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)	SIMILARITY
*	1 1,4-Dichlorobenzene-d4	152	9.142	9.142	(1.000)	27911	20.0000		
*	2 Naphthalene-d8	136	13.371	13.371	(1.000)	113933	20.0000		8652
*	3 Acenaphthene-d10	164	17.465	17.465	(1.000)	72140	20.0000		7862
*	4 Phenanthrene-d10	188	20.578	20.578	(1.000)	126145	20.0000		8727
*	5 Chrysene-d12	240	25.789	25.789	(1.000)	111343	20.0000		8460
*	6 Perylene-d12	264	28.547	28.547	(1.000)	120916	20.0000		8591
$	7 Phenol-d5	99	9.074	9.074	(0.993)	51600	20.0000	21	7348
$	8 bis-(2-Chloroethyl)ether-d8	67	8.330	8.330	(0.911)	31376	20.0000	21	8943
$	9 2-Chlorophenol-d4	132	8.584	8.584	(0.939)	38474	20.0000	20	9090
$	10 4-Methylphenol-d8	113	11.697	11.697	(1.279)	42915	20.0000	22	9470
$	11 Nitrobenzene-d5	128	11.510	11.510	(0.861)	20694	20.0000	20	8900
$	12 2-Nitrophenol-d4	143	12.492	12.492	(0.934)	25010	20.0000	23	9241
$	13 2,4-Dichlorophenol-d3	165	13.371	13.371	(1.000)	42026	20.0000	25	8881
$	14 4-Chloroaniline-d4	131	13.845	13.845	(1.035)	56671	20.0000	24	9190
$	15 Dimethylphthalate-d6	166	17.144	17.144	(0.982)	106668	20.0000	22	9295
$	16 Acenaphthylene-d8	160	17.110	17.110	(0.980)	149036	20.0000	22	9252
$	17 4-Nitrophenol-d4	143	18.396	18.396	(1.053)	15525	20.0000	18	6036
$	18 Fluorene-d10	176	18.565	18.565	(1.063)	88831	20.0000	22	9553
$	19 4,6-Dinitro-2-methylphenol-d2	200	19.039	19.039	(0.925)	21885	20.0000	20	7736

Data File: /chem/5972hp60.i/DF051007A60.b/HG051007A60.d
Report Date: 07-Oct-2005 09:22

		QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)	SIMILARITY
S	20	188	20.663	20.663	(1.004)	129068	20.0000	20	9488
S	21	212	23.251	23.251	(0.902)	138119	20.0000	19	8845
S	22	264	28.394	28.394	(0.995)	132616	20.0000	17	8285(H)
	23	77	7.399	7.399	(0.809)	31077	20.0000	16	8075
	24	94	9.142	9.142	(1.000)	50920	20.0000	20	8748
	25	93	8.533	8.533	(0.933)	35389	20.0000	19	8959
	26	128	8.651	8.651	(0.946)	36636	20.0000	19	7481
	27	108	11.240	11.240	(1.229)	37740	20.0000	20	
	28	45	10.817	10.817	(1.183)	75783	20.0000	20	
	29	105	11.088	11.088	(1.213)	58426	20.0000	23	8551
	30	108	11.781	11.781	(1.289)	42270	20.0000	21	
	31	70	11.324	11.324	(1.239)	23170	20.0000	20	7322
	32	117	11.020	11.020	(1.205)	19332	20.0000	21	8975
	33	77	11.561	11.561	(0.865)	42765	20.0000	17	8454
	34	82	12.322	12.322	(0.922)	81521	20.0000	21	8521
	35	139	12.526	12.526	(0.937)	25362	20.0000	21	9137
	36	107	13.084	13.084	(0.978)	37588	20.0000	21	9373
	37	93	13.135	13.135	(0.982)	57970	20.0000	21	8463
	38	162	13.388	13.388	(1.001)	39135	20.0000	23	
	39	128	13.405	13.405	(1.003)	125393	20.0000	22	8848
	40	127	13.862	13.862	(1.037)	57481	20.0000	23	9031
	41	225	13.964	13.964	(1.044)	20894	20.0000	25	9179
	42	113	14.809	14.809	(1.108)	17524	20.0000	25	8592(M)
	43	107	15.368	15.368	(1.149)	43432	20.0000	25	9234
	44	142	15.131	15.131	(1.132)	81464	20.0000	22	
	45	216	15.638	15.638	(0.895)	40118	20.0000	21	9544
	46	237	15.672	15.672	(0.897)	14036	20.0000	22	8053
	47	196	16.044	16.044	(0.919)	29173	20.0000	23	
	48	196	16.197	16.197	(0.927)	130030	80.0000	92	
		154	16.264	16.264	(0.931)	112442	20.0000	23	7894
	50	162	16.230	16.230	(0.929)	92308	20.0000	23	9017
	51	65	16.738	16.738	(0.958)	125078	80.0000	94	8297
	52	163	17.195	17.195	(0.984)	103519	20.0000	22	7859
	53	165	17.347	17.347	(0.993)	27078	20.0000	23	8196
	54	152	17.127	17.127	(0.981)	144860	20.0000	21	9311
	55	138	17.668	17.668	(1.012)	118157	80.0000	93	8119
	56	153	17.533	17.533	(1.004)	89194	20.0000	21	9185
	57	184	17.922	17.922	(1.026)	42006	80.0000	80	8783
	58	109	18.396	18.396	(1.053)	39987	80.0000	110	
	61	168	17.888	17.888	(1.024)	135089	20.0000	22	8972
	62	165	18.193	18.193	(1.042)	36300	20.0000	23	8584
	63	149	18.700	18.700	(1.071)	106925	20.0000	22	8223
	64	166	18.633	18.633	(1.067)	111734	20.0000	23	0(M)
	65	204	18.700	18.700	(1.071)	44717	20.0000	22	7572
	66	138	19.022	19.022	(1.089)	82852	80.0000	69	
	67	198	19.056	19.056	(0.926)	86287	80.0000	79	
		169	19.022	19.022	(0.924)	80344	20.0000	20	7022

GM
10/7

Data [illegible] chem/5972hp60.i/DF051007A60.b/HG051007A60.d
Report [illegible] 07-Oct-2005 09:22

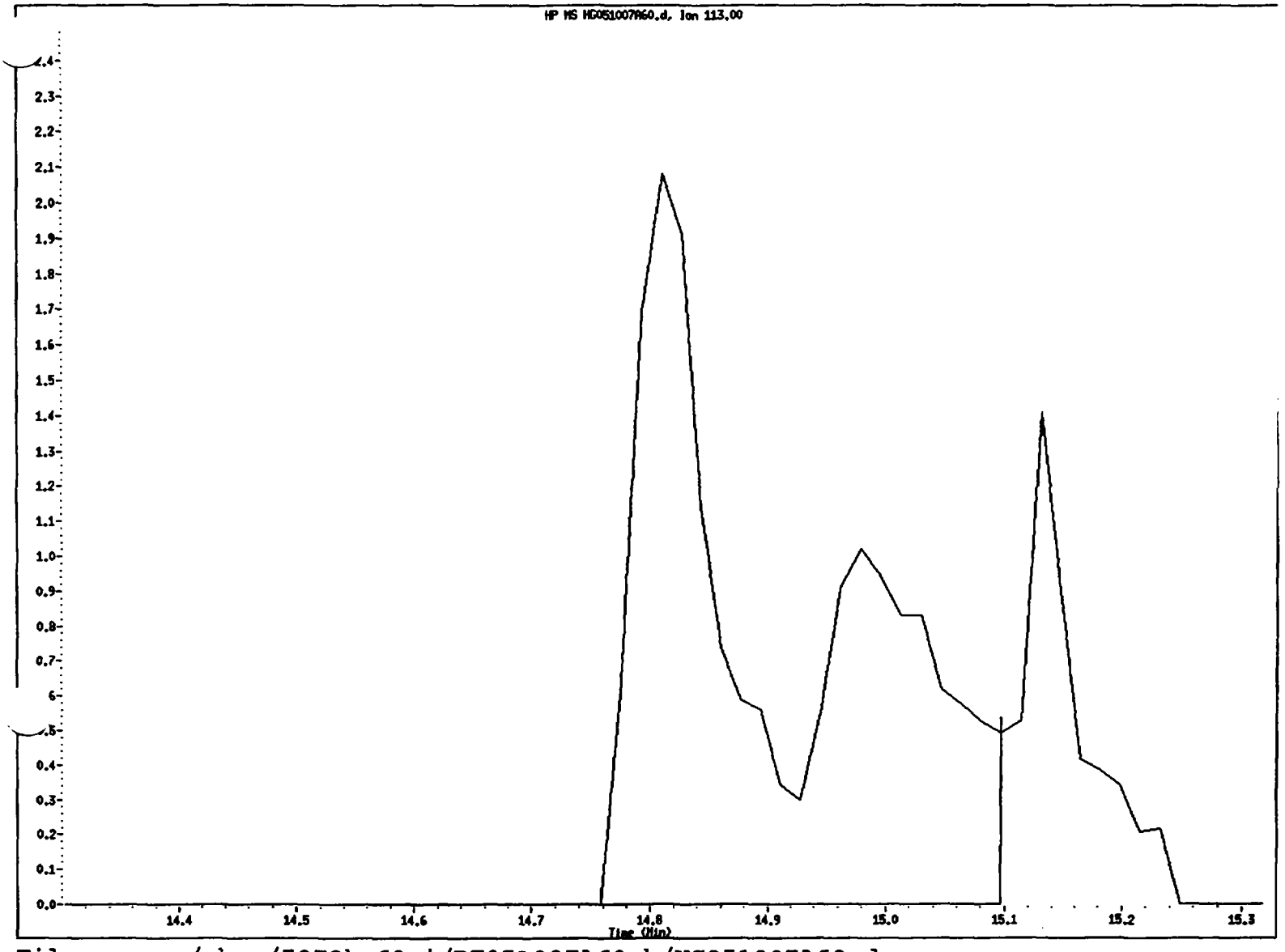
Compound	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)	SIMILARITY
[illegible]	248	19.716	19.716	(0.958)	29452	20.0000	23	9160
[illegible]	284	19.969	19.969	(0.970)	35150	20.0000	23	9568
[illegible]line	200	20.341	20.341	(0.988)	33260	20.0000	25	7281
[illegible]	266	20.477	20.477	(0.995)	11011	20.0000	16	9381
[illegible]	178	20.612	20.612	(1.002)	149700	20.0000	21	
[illegible]	178	20.697	20.697	(1.006)	140715	20.0000	20	
[illegible]	149	21.932	21.932	(1.066)	183526	20.0000	19	8974
[illegible]fluorobiphenyl	202	22.862	22.862	(1.111)	139286	20.0000	20	
[illegible]pyrene	202	23.285	23.285	(0.903)	146664	20.0000	18	
[illegible]	149	24.875	24.875	(0.965)	88471	20.0000	19	8279
[illegible]	252	25.857	25.857	(1.003)	32950	20.0000	18	9172
[illegible]	149	26.144	26.144	(1.014)	129998	20.0000	19	8777
[illegible]	228	25.755	25.755	(0.999)	142191	20.0000	21	
[illegible]	228	25.840	25.840	(1.002)	137351	20.0000	21	
[illegible]	149	27.328	27.328	(0.957)	233885	20.0000	14	9442
[illegible]	252	27.870	27.870	(0.976)	166573	20.0000	16	
[illegible]	252	27.904	27.904	(0.977)	177183	20.0000	17	
[illegible]	252	28.445	28.445	(0.996)	145998	20.0000	17	9128
[illegible]	276	30.475	30.475	(1.068)	174943	20.0000	24	8300 (M)
[illegible]	278	30.509	30.509	(1.069)	153278	20.0000	22	8538
[illegible]	276	31.000	31.000	(1.086)	153118	20.0000	21	8532

QC Flag Legend

M - [illegible] manually integrated.
R - [illegible] an alternate compound hit.

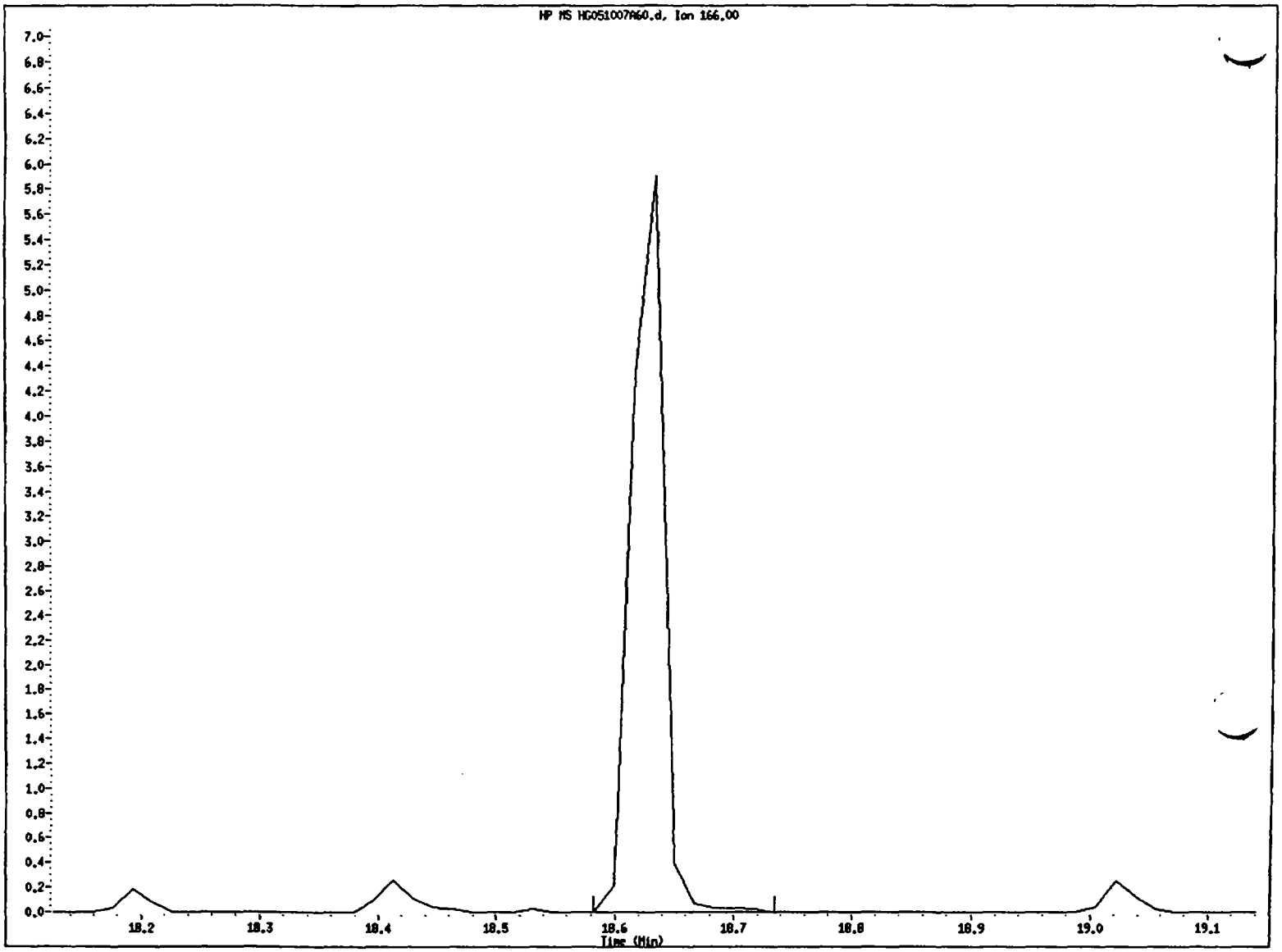
GM
6/7

Caprolactam CAS Number 105-60-2 Area = 17524 Manually integrated



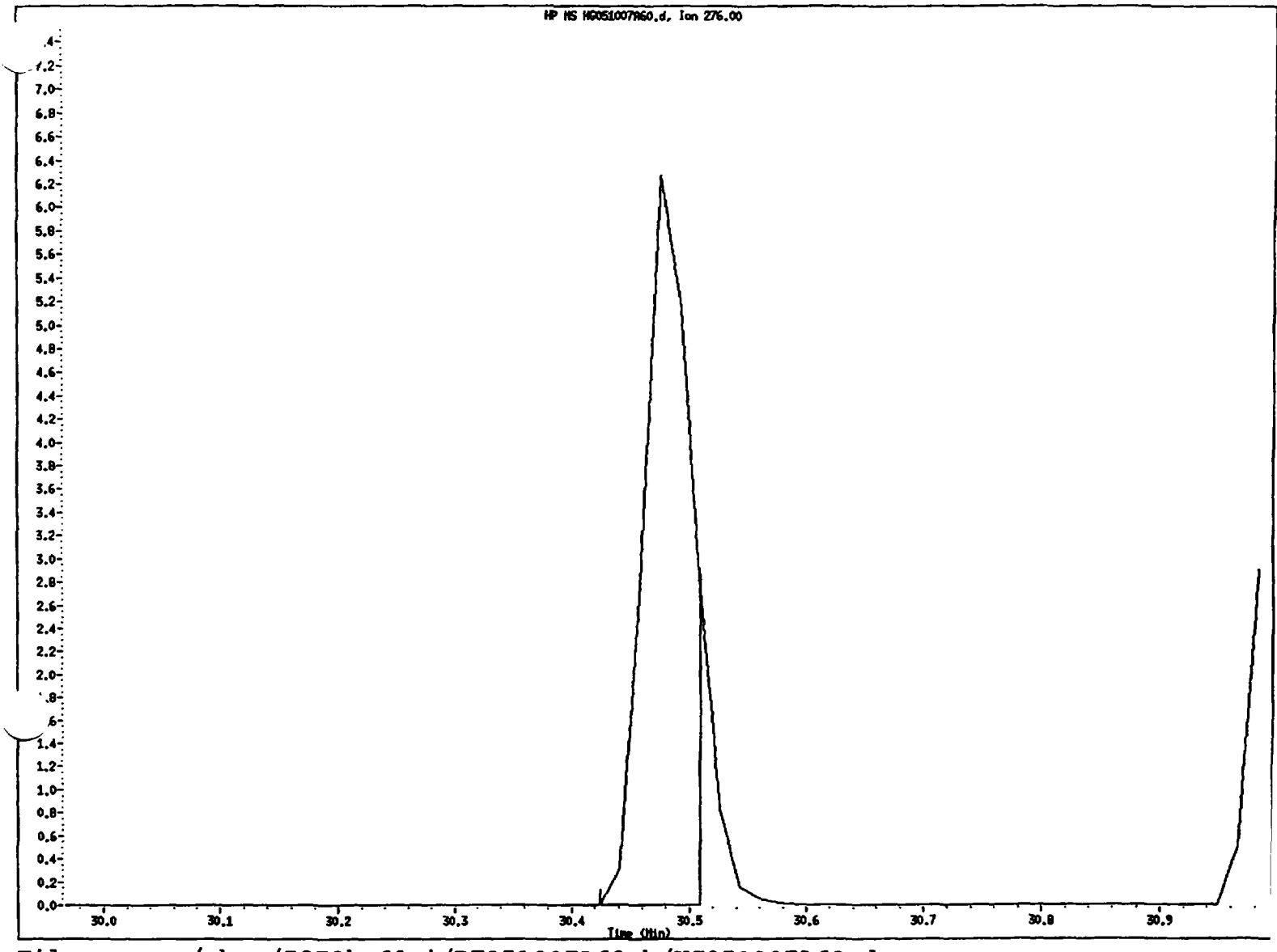
File name: /chem/5972hp60.i/DF051007A60.b/HG051007A60.d
Client ID: SSTD020AV
Instrument ID: 5972hp60.i
Injection Date and Time: 07-OCT-2005 08:40
Retention Time: 14.81
Operator ID: 917

Fluorene CAS Number 86-73-7 Area = 111734 Manually integrated



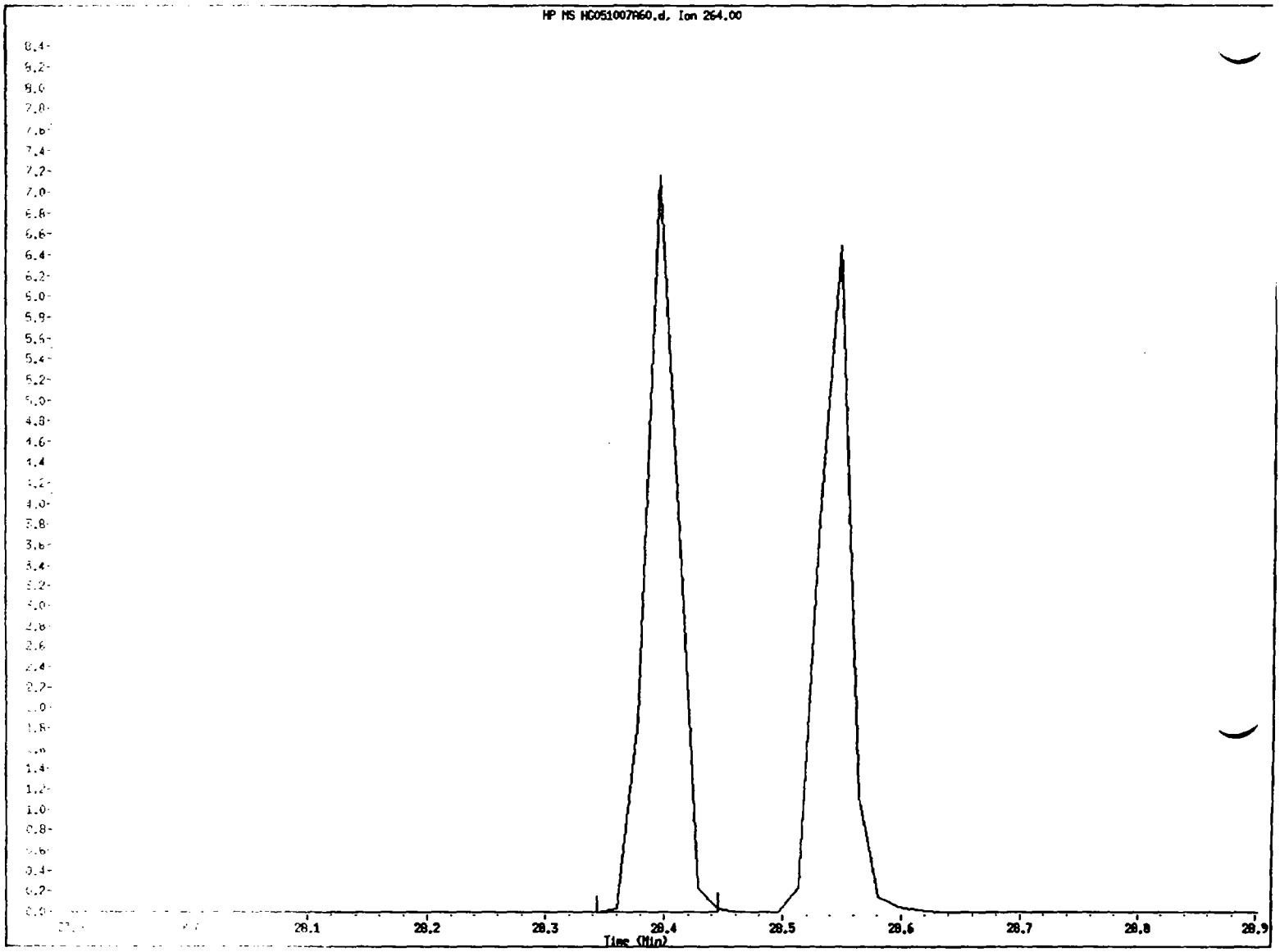
File name: /chem/5972hp60.i/DF051007A60.b/HG051007A60.d
Client ID: SSTD020AV
Instrument ID: 5972hp60.i
Injection Date and Time: 07-OCT-2005 08:40
Retention Time: 18.63
Operator ID: 917

Indeno(1,2,3-cd)pyrene CAS Number 193-39-5 Area = 174943 Manually integrated



File name: /chem/5972hp60.i/DF051007A60.b/HG051007A60.d
Client ID: SSTD020AV
Instrument ID: 5972hp60.i
Injection Date and Time: 07-OCT-2005 08:40
Retention Time: 30.48
Operator ID: 917

Benzo[a]pyrene-d12 CAS Number 63466-71-7 Area = 132616 User selected hit



File [illegible] /chem/5972hp60.i/DF051007A60.b/HG051007A60.d
Client ID: 3SID020AV
Instrument ID: 5972hp60.i
Injection Date and Time: 07-OCT-2005 08:40
Retention Time: 28.39
Operator ID: 917

COMPUCHEM a division of Liberty Analytical Corp DATE 10/7/05 INITIAL TIME OF TUNE 0754 SHIFT/S(A) ✓ (B) ____ (C) ____

GC/MS SEMIVOLATILE RUN LOG TIME TUNE EXPIRES 1954 LINKER /METHOD 06c23

COMPUCHEM LOGBOOK 4 V(4) 12 (5972hp60)

PREVENTIVE MAINTENANCE none

241

	CTRL	FILE NAME	CTRL	DATE	TIME	CLIENT ID#	CASE/SDG#	AMOUNT INJECTED	CHEMIST	COMMENTS(ETC.)/DISPOSITION
1		DFTPP1007A60	/	10/7/05	0754	DFTPP	—	2ul	917	SCD=LCD
2		HG051007A60	/	/ /	0840	SSTD025AV	—	1ul		
3		81085A60	/	/ /	0926	7829MS	ACSGWPWB26MS			
4		81086A60	/	/ /	1012	↓ MSD	ACSGWBWB26MSD			Time 1012 GM 10/7
5		81077-A60	PR	/ /	1057	VARIOUS	VARIOUS			SICSNX
6		782905A60	/	/ /	1143	ACSGWPWC26	7829			
7		782907A60	/	/ /	1229	ACSGWPWD26	↓			
8				/ /						
9				/ /		GM	1019			
10				/ /						
11				/ /						
12				/ /						
13				/ /						
14				/ /						
15				/ /						
16				/ /						
17				/ /						
18				/ /						
19				/ /						
20				/ /						
21				/ /						
22										
23										

4. Semivolatiles Raw QC Data

   a. DFTPP Data

   b. Blank Data

   c. Matrix Spike Data

   d. Matrix Spike Duplicate Data

a. DFTPP Data

For each 12 hour period, per instrument utilized, include:

- Bar Graph Spectrum and Tabulated Relative Abundances

- Mass listing

- Reconstructed total Ion Chromatogram

Data File: /chem/5972hp60.i/DF050310A60.b/DF050310A60.d

Date : 10-MAR-2005 08:28

Client ID: DFTPP

Instrument: 5972hp60.i

Sample Info: DFTPP:917

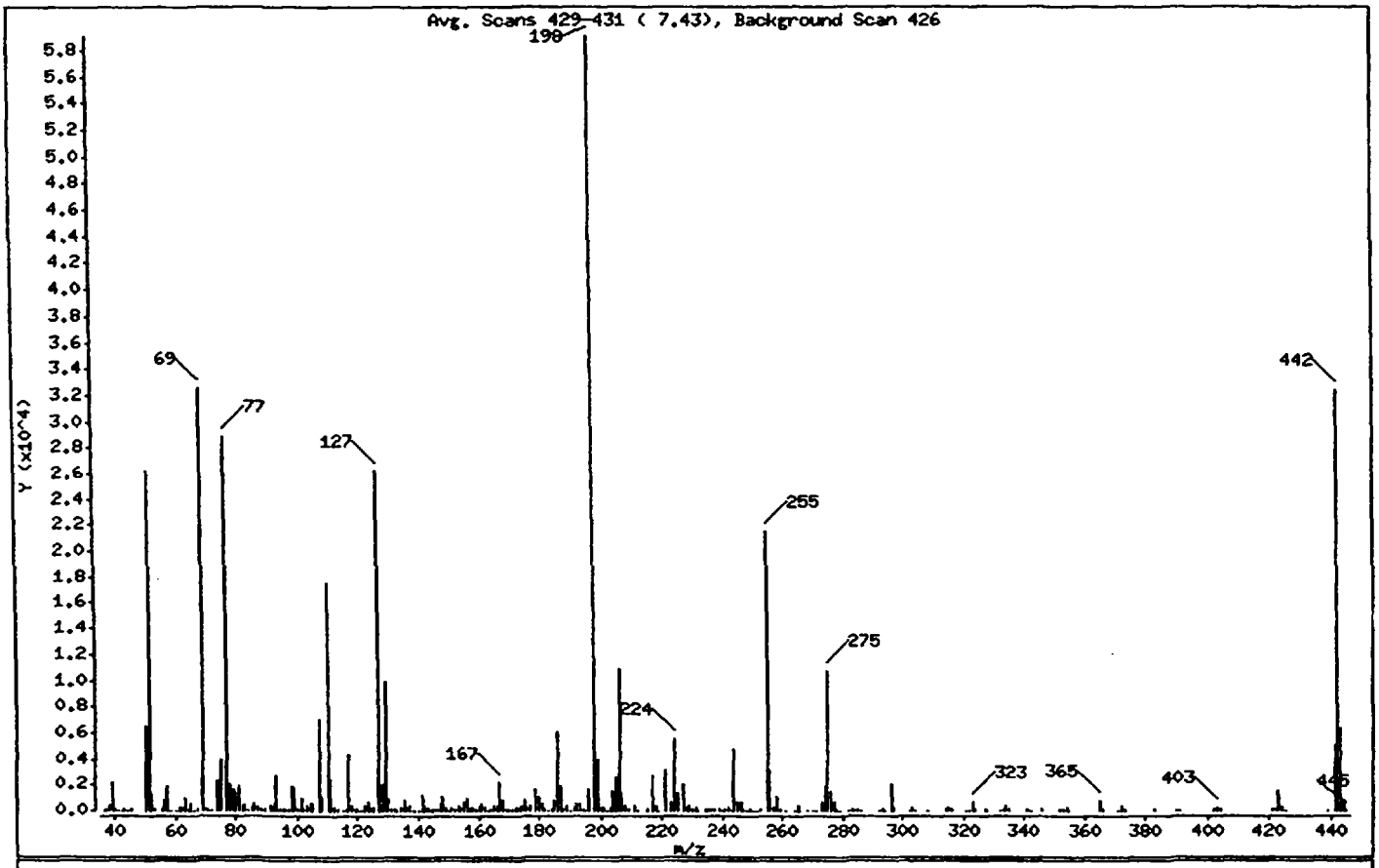
Volume Injected (uL): 2.0

Operator: 917

Column phase: RTX-5MS

Column diameter: 0.32

1 Decafluorotriphenylphosphine



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	44.46
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	55.11
70	Less than 2.00% of mass 69	0.21 (0.38)
127	25.00 - 75.00% of mass 198	44.42
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.67
275	10.00 - 30.00% of mass 198	18.14
365	Greater than 0.75% of mass 198	1.42
441	Present, but less than mass 443	8.56
442	40.00 - 110.00% of mass 198	54.95
443	15.00 - 24.00% of mass 442	10.73 (19.53)

Data File: /Chem/5972hp60.i/DF050310A60.b/DF050310A60.d

Date : 10-[illegible]-2005 08:28

Client ID: DF[illegible]

Instrument: 5972hp60.i

Sample Info: DF[illegible]:917

Volume Injected (ml): 2.0

Operator: 917

Column Phase: [illegible]-5MS

Column diameter: 0.32

Data File: DF050310A60.d

Spectrum: Avg. Scans 429-431 (7.43), Background Scan 426

Location of Maximum: 198.00

Number of points: 268

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	28	117.00	4354	187.00	1862	271.00	38
37.00	110	118.00	387	188.00	146	273.00	678
38.00	355	119.00	90	189.00	396	274.00	1844
39.00	2131	120.00	97	190.00	44	275.00	10718
40.00	110	121.00	25	191.00	219	276.00	1445
41.00	44	122.00	401	192.00	482	277.00	660
42.00	68	123.00	649	193.00	578	278.00	91
43.00	72	124.00	322	194.00	109	279.00	20
44.00	21	125.00	293	195.00	47	282.00	22
45.00	84	127.00	26232	196.00	1567	283.00	97
50.00	6518	128.00	2083	198.00	59072	284.00	56
51.00	26256	129.00	9935	199.00	3942	285.00	105
52.00	1341	130.00	888	200.00	269	286.00	18
53.00	95	131.00	187	201.00	287	292.00	38
55.00	184	132.00	116	202.00	33	293.00	160
56.00	859	133.00	19	203.00	278	294.00	26
57.00	1958	134.00	263	204.00	1518	296.00	2089
58.00	61	135.00	751	205.00	2641	297.00	288
60.00	61	136.00	303	206.00	10929	302.00	44
61.00	310	137.00	359	207.00	1412	303.00	269
62.00	335	138.00	52	208.00	351	304.00	68
63.00	912	139.00	62	209.00	91	308.00	34
64.00	199	140.00	62	211.00	461	314.00	118
65.00	525	141.00	1180	212.00	36	315.00	247
66.00	14	142.00	408	215.00	83	316.00	117
67.00	107	143.00	265	217.00	2699	321.00	68
69.00	32552	144.00	84	218.00	345	322.00	20
70.00	125	145.00	77	219.00	23	323.00	735
71.00	47	146.00	185	221.00	3143	324.00	138
72.00	26	147.00	612	223.00	647	327.00	91
74.00	2305	148.00	1151	224.00	5615	328.00	63
75.00	4010	149.00	266	225.00	1400	332.00	59
77.00	28888	150.00	54	227.00	2106	333.00	69
78.00	2017	151.00	212	228.00	311	334.00	425
79.00	1701	152.00	83	229.00	444	335.00	110

[illegible]72hp60.i/DF050310A60.b/DF050310A60.d

[illegible]:28

[illegible]

Instrument: 5972hp60.i

[illegible] 917

[illegible] 2.0

Operator: 917

[illegible]

Column diameter: 0.32

Data File: DF050310A60.d

Spectrum: Avg. Scans 429-431 (7.43), Background Scan 426

Location of Maximum: 198.00

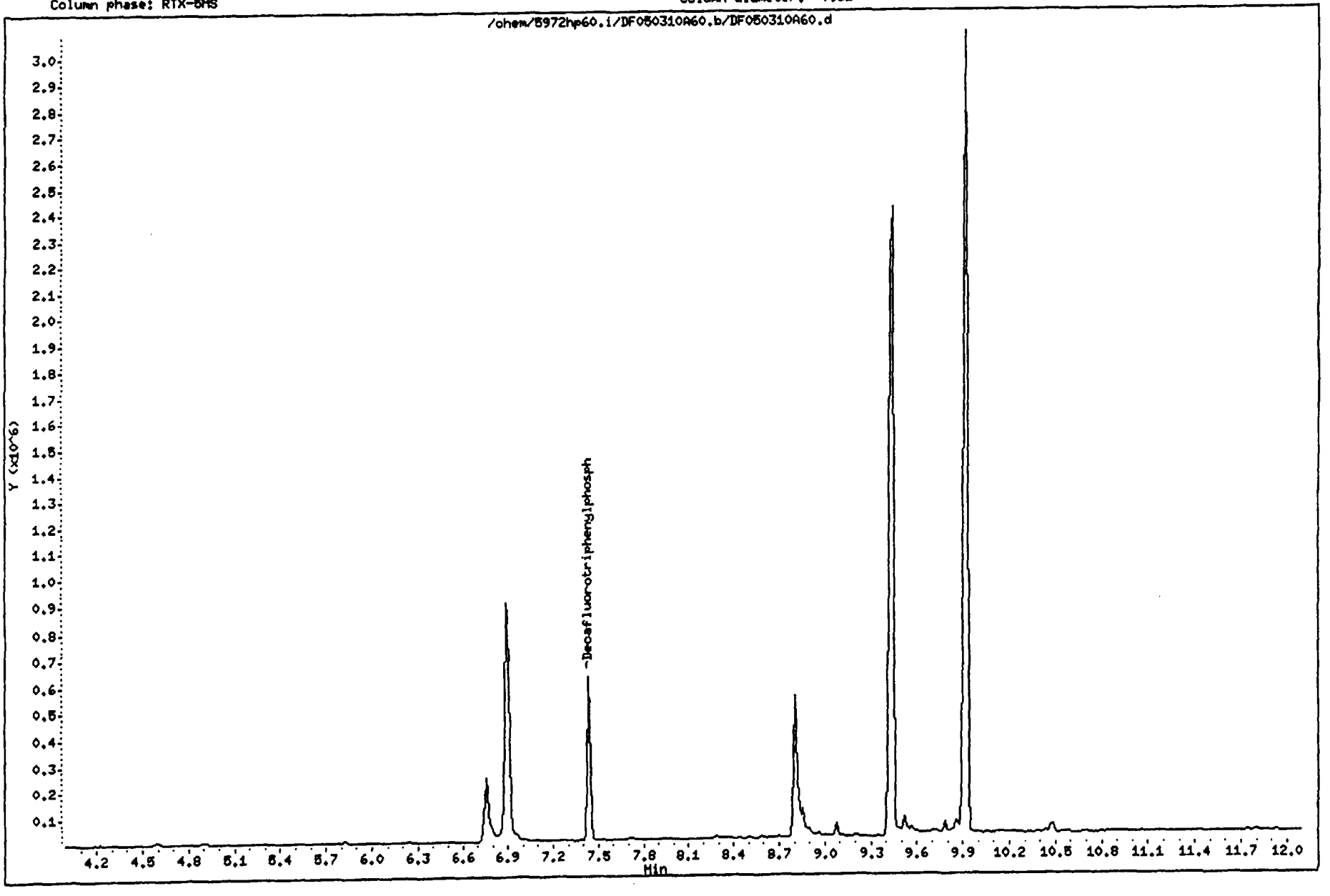
Number of points: 268

m/z	Y	m/z	Y	m/z	Y	m/z	Y
[illegible]0.00	1352	153.00	371	230.00	83	341.00	90
[illegible]1.00	1876	154.00	265	231.00	227	342.00	18
[illegible]2.00	427	155.00	661	232.00	23	346.00	119
[illegible].00	402	156.00	980	234.00	146	352.00	177
[illegible]4.00	35	157.00	224	235.00	158	353.00	118
85.00	226	158.00	215	236.00	108	354.00	245
86.00	532	159.00	173	237.00	161	355.00	44
[illegible].00	255	160.00	380	239.00	76	365.00	840
[illegible].00	134	161.00	544	240.00	51	366.00	103
[illegible].00	112	162.00	207	241.00	127	371.00	63
91.00	377	163.00	45	242.00	285	372.00	425
92.00	517	164.00	84	243.00	35	373.00	76
[illegible]3.00	2744	165.00	461	244.00	4806	383.00	86
[illegible]4.00	175	166.00	376	245.00	653	390.00	56
95.00	119	167.00	2141	246.00	736	391.00	22
[illegible].00	116	168.00	884	247.00	170	402.00	128
[illegible]7.00	100	169.00	193	248.00	41	403.00	209
[illegible]8.00	1931	170.00	153	249.00	141	404.00	70
[illegible].00	1702	171.00	71	250.00	20	421.00	193
[illegible].00	114	172.00	211	251.00	18	422.00	171
[illegible].00	897	173.00	276	252.00	39	423.00	1554
102.00	93	174.00	466	253.00	81	424.00	298
103.00	371	175.00	810	255.00	21528	425.00	21
104.00	602	176.00	329	256.00	3064	439.00	23
105.00	549	177.00	449	257.00	264	441.00	5059
107.00	7082	179.00	1681	258.00	1113	442.00	32456
108.00	1049	180.00	1143	259.00	166	443.00	6341
110.00	17504	181.00	549	261.00	42	444.00	656
111.00	2426	182.00	82	264.00	5	445.00	21
112.00	278	183.00	61	265.00	419		
113.00	90	184.00	142	266.00	45		
115.00	65	185.00	844	268.00	28		
116.00	103	186.00	6172	270.00	23		

Data File: /chem/5972hp60.i/DF050310A60.b/DF050310A60.d
Date : 10-MAR-2005 08:28
Client ID: DFTPP
Sample Info: DFTPP:917
Volume Injected (uL): 2.0
Column phase: RTX-5MS

Instrument: 5972hp60.i
Operator: 917
Column diameter: 0.32

COPY CXX31
ORIGINAL DOCUMENTS INCLUDED IN CSF- 33914
SIGNATURE KM DATE 3/15/05



Data File: [illegible]5972hp60.i/DF051006A60.b/DF051006A60.d

Date [illegible] 06:58

[illegible]

Sample [illegible]:917

[illegible]

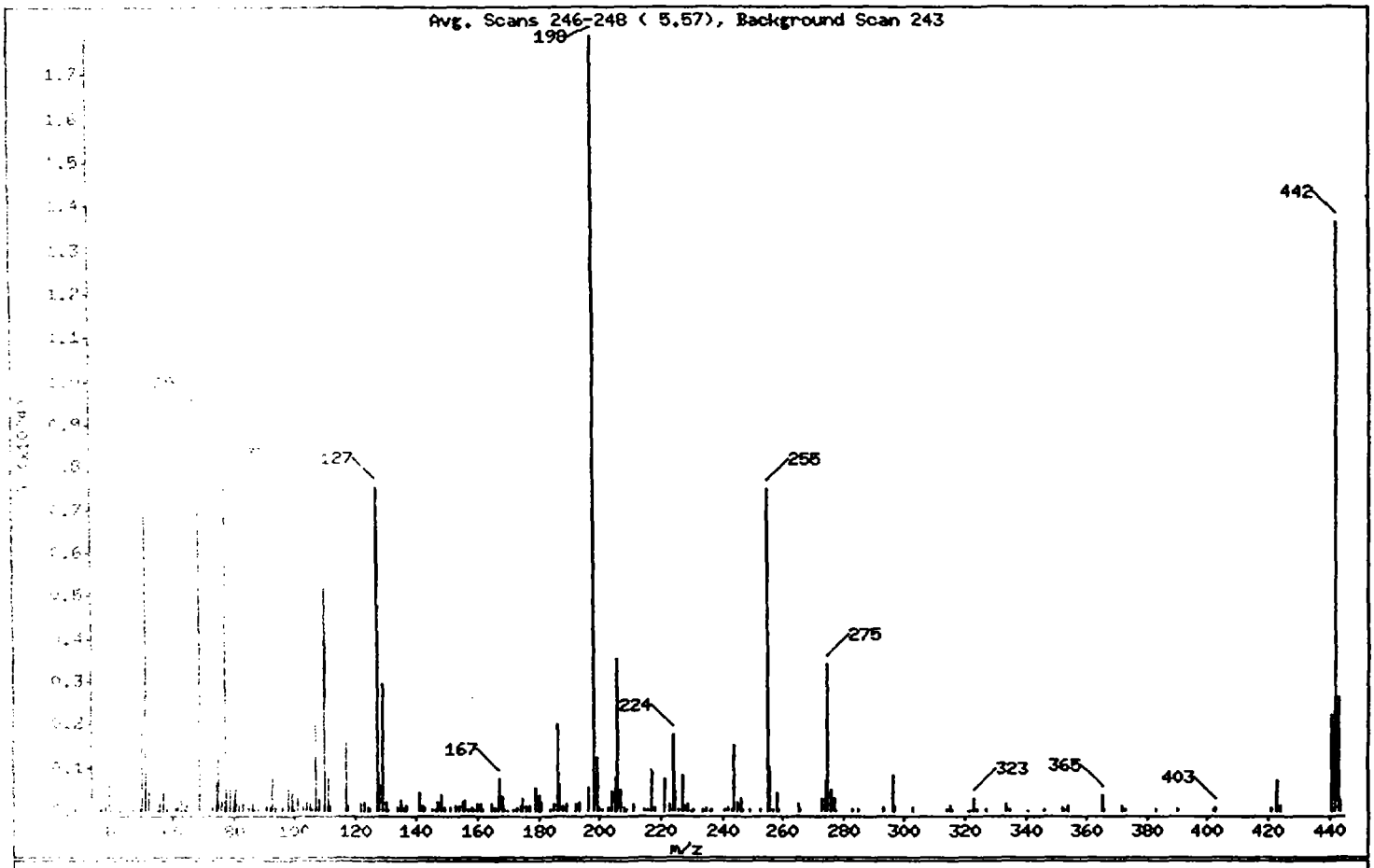
Column [illegible]

1 Decaf[illegible]nosphine

Instrument: 5972hp60.i

Operator: 917

Column diameter: 0.32



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	39.84
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	51.84
70	Less than 2.00% of mass 69	0.11 (0.21)
127	25.00 - 75.00% of mass 198	42.02
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.86
275	10.00 - 30.00% of mass 198	19.12
365	Greater than 0.75% of mass 198	2.04
441	Present, but less than mass 443	12.35
442	40.00 - 110.00% of mass 198	76.31
443	15.00 - 24.00% of mass 442	14.80 (19.40)

Data File: /chem/5972hp60.i/DF051006A60.b/DF051006A60.d

Date : 06-OCT-2005 08:58

Client ID: DFTPP Instrument: 5972hp60.i

Sample Info: DFTPP:917

Volume Injected (uL): 2.0 Operator: 917

Column phase: RTX-5MS Column diameter: 0.32

Data File: DF051006A60.d

Spectrum: Avg. Scans 246-248 (5.57), Background Scan 243

Location of Maximum: 198.00

Number of points: 204

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	25	106.00	31	179.00	541	256.00	1030
37.00	39	107.00	2117	180.00	381	257.00	24
38.00	123	108.00	299	181.00	197	258.00	414
39.00	636	110.00	5173	184.00	30	259.00	45
40.00	8	111.00	720	185.00	167	265.00	177
41.00	40	112.00	105	186.00	2008	266.00	46
43.00	43	117.00	1550	187.00	598	273.00	275
44.00	36	118.00	114	188.00	121	274.00	718
47.00	65	122.00	164	189.00	147	275.00	3417
48.00	18	123.00	191	192.00	159	276.00	485
49.00	28	124.00	73	193.00	194	277.00	272
50.00	1932	125.00	78	196.00	517	278.00	19
51.00	7122	127.00	7511	198.00	17872	283.00	35
52.00	412	128.00	618	199.00	1226	285.00	57
55.00	19	129.00	2968	200.00	69	293.00	66
56.00	220	130.00	214	201.00	54	296.00	842
57.00	509	131.00	24	203.00	85	297.00	115
58.00	23	134.00	102	204.00	443	303.00	95
61.00	91	135.00	231	205.00	792	314.00	47
62.00	91	136.00	71	206.00	3518	315.00	106
63.00	290	137.00	128	207.00	509	316.00	53
64.00	29	141.00	406	208.00	100	321.00	17
65.00	144	142.00	118	209.00	21	322.00	18
69.00	9267	143.00	69	211.00	160	323.00	291
70.00	19	145.00	29	215.00	42	324.00	58
73.00	89	146.00	36	216.00	23	327.00	31
74.00	673	147.00	207	217.00	935	334.00	171
75.00	1183	148.00	354	218.00	96	335.00	48
76.00	250	149.00	75	221.00	749	341.00	18
77.00	7633	151.00	95	223.00	181	346.00	51
78.00	498	153.00	119	224.00	1767	352.00	85
79.00	496	154.00	106	225.00	440	353.00	56
80.00	370	155.00	195	226.00	32	354.00	104
81.00	509	156.00	256	227.00	834	365.00	365
82.00	143	157.00	55	228.00	125	366.00	21

...60.i/DF051006A60.b/DF051006A60.d

Instrument: 5972hp60.i

Operator: 917

Column diameter: 0.32

Data File: DF051006A60.d

Spectrum: Avg. Scans 246-248 (5.57), Background Scan 243

Location of Maximum: 198.00

Number of points: 204

m/z	Y	m/z	Y	m/z	Y	m/z	Y
...00	173	158.00	91	229.00	180	372.00	138
...00	80	159.00	48	230.00	20	373.00	23
...00	153	160.00	146	231.00	58	383.00	22
...00	34	161.00	156	234.00	54	390.00	21
...00	22	162.00	39	235.00	65	402.00	51
...00	139	165.00	152	236.00	18	403.00	96
...00	79	166.00	84	237.00	53	421.00	89
...00	828	167.00	753	241.00	50	423.00	698
...00	66	168.00	316	242.00	94	424.00	118
...00	79	169.00	47	243.00	47	441.00	2207
...00	631	170.00	19	244.00	1503	442.00	13640
...00	459	172.00	50	245.00	211	443.00	2646
...00	36	173.00	67	246.00	295	444.00	235
...00	276	174.00	129	247.00	43		
...00	121	175.00	294	249.00	45		
...00	225	176.00	124	253.00	23		
...00	209	177.00	141	255.00	7488		

COPY

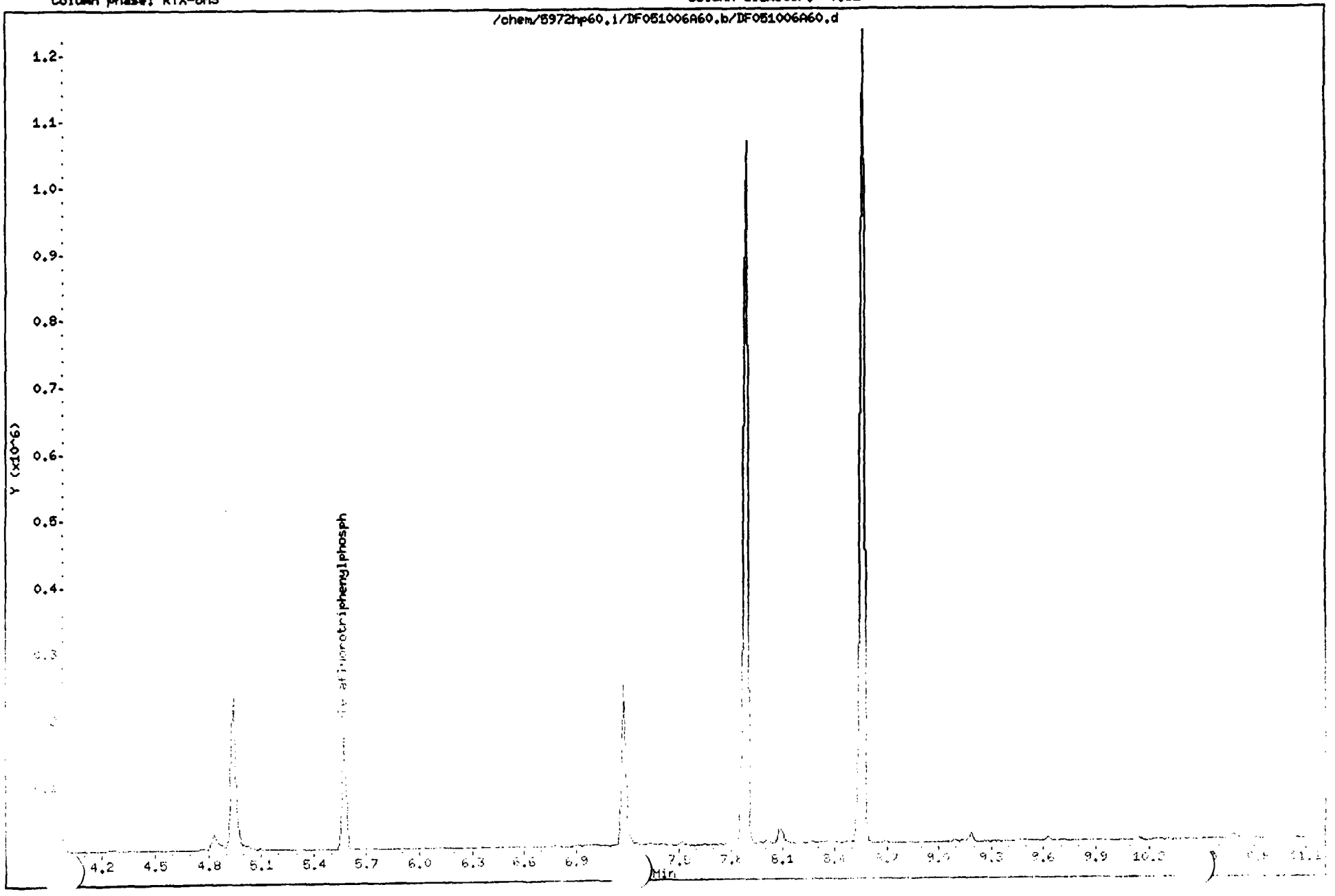
ORIGINAL DOCUMENTS INCLUDED IN CSF_____

SIGNATURE_____ DATE_____

Data File: /chem/5972hp60.i/DF051006A60.b/DF051006A60.d
Date : 06-OCT-2005 08:58
Client ID: DFTPP
Sample Info: DFTPP:917
Volume Injected (uL): 2.0
Column phase: RTX-5MS

Instrument: 5972hp60.i

Operator: 917
Column diameter: 0.32



Data File: /chem/5972hp60.i/DF051007A60.b/DF051007A60.d

Date : 07-OCT-2005 07:54

Client ID: DFTPP

Instrument: 5972hp60.i

Sample Info: DFTPP;917

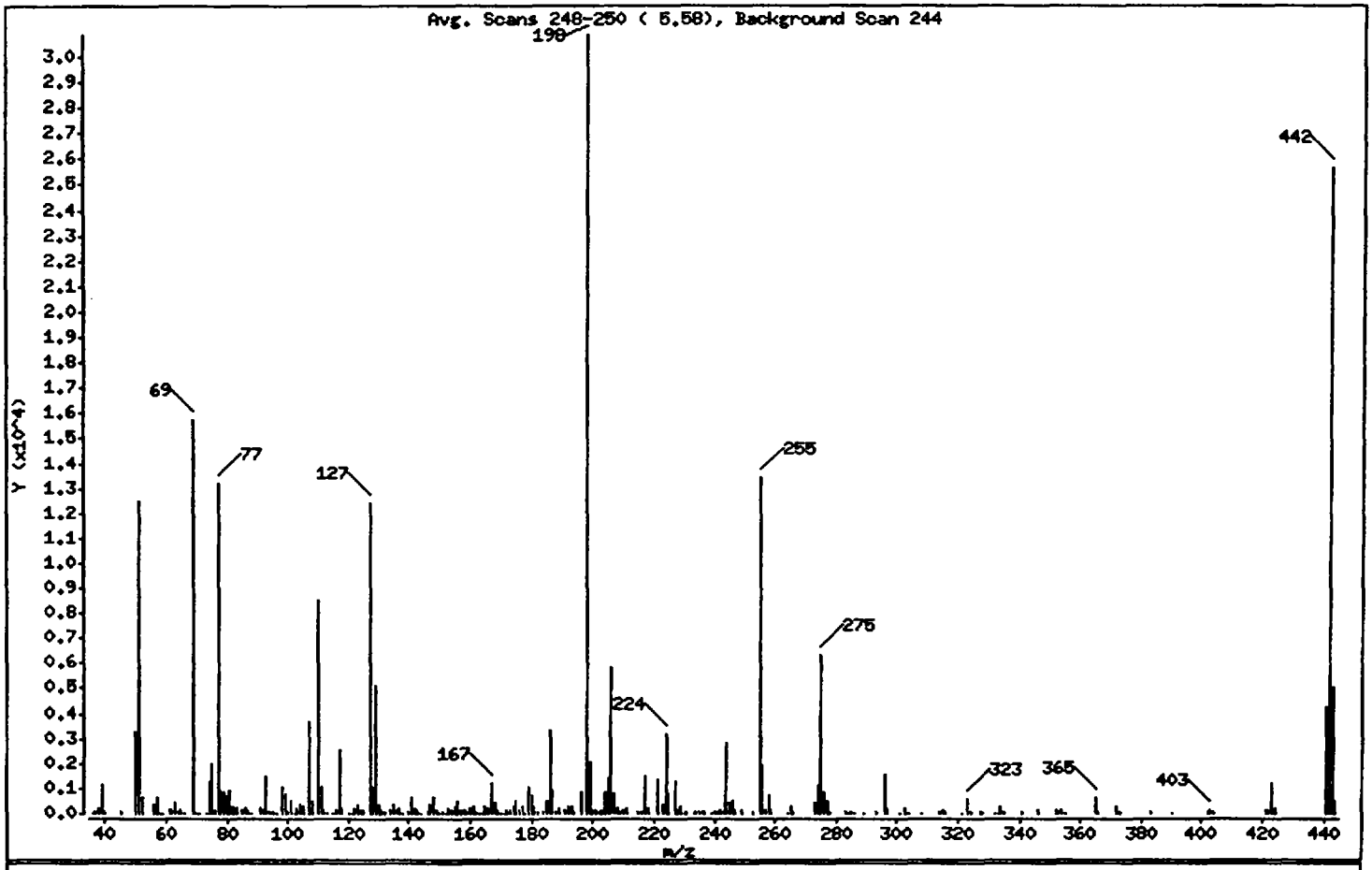
Volume Injected (uL): 2.0

Operator: 917

Column phase: RTX-5MS

Column diameter: 0.32

1 Decafluorotriphenylphosphine



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	40.49
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	51.05
70	Less than 2.00% of mass 69	0.11 (0.22)
127	25.00 - 75.00% of mass 198	40.28
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.66
275	10.00 - 30.00% of mass 198	20.47
365	Greater than 0.75% of mass 198	2.13
441	Present, but less than mass 443	13.90
442	40.00 - 110.00% of mass 198	83.22
443	15.00 - 24.00% of mass 442	16.35 (19.64)

Data File: [illegible]/5972hp60.i/DF051007A60.b/DF051007A60.d

Date: [illegible]-2005 07:54

Client ID: DFTPP

Instrument: 5972hp60.i

Sample Info: [illegible]:917

Volume Injected (ul): 2.0

Operator: 917

Column phase: [illegible]

Column diameter: 0.32

Data File: DF051007A60.d

Spectrum: Avg. Scans 248-250 (5.58), Background Scan 244

Location of Maximum: 198.00

Number of points: 235

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	17	117.00	2570	181.00	285	258.00	734
37.00	48	118.00	202	182.00	50	259.00	122
38.00	198	120.00	23	184.00	36	264.00	24
39.00	1115	121.00	17	185.00	472	265.00	291
40.00	55	122.00	227	186.00	3353	266.00	100
45.00	39	123.00	364	187.00	920	273.00	413
50.00	3289	124.00	164	188.00	43	274.00	1144
51.00	12489	125.00	155	189.00	203	275.00	6314
52.00	652	127.00	12425	191.00	142	276.00	870
56.00	337	128.00	1029	192.00	287	277.00	507
57.00	619	129.00	5108	193.00	304	278.00	84
58.00	19	130.00	373	194.00	70	283.00	48
59.00	23	131.00	110	196.00	838	284.00	23
61.00	156	132.00	69	198.00	30848	285.00	98
62.00	154	134.00	143	199.00	2055	286.00	17
63.00	438	135.00	323	200.00	158	289.00	17
64.00	98	136.00	138	201.00	133	293.00	90
65.00	175	137.00	221	202.00	37	296.00	1535
66.00	33	138.00	19	203.00	153	297.00	214
69.00	15748	140.00	45	204.00	831	301.00	18
70.00	35	141.00	617	205.00	1432	303.00	211
71.00	35	142.00	237	206.00	5831	304.00	23
73.00	28	143.00	123	207.00	809	308.00	17
74.00	1270	144.00	24	208.00	207	314.00	58
75.00	1959	146.00	103	209.00	63	315.00	142
76.00	151	147.00	342	210.00	122	316.00	83
77.00	13178	148.00	666	211.00	247	321.00	19
78.00	896	149.00	141	215.00	58	323.00	542
79.00	870	150.00	26	216.00	50	324.00	78
80.00	735	151.00	90	217.00	1507	327.00	90
81.00	951	152.00	27	218.00	199	328.00	47
82.00	259	153.00	215	221.00	1317	332.00	19
83.00	196	154.00	166	223.00	352	333.00	19
85.00	160	155.00	296	224.00	3178	334.00	318
86.00	203	156.00	490	225.00	758	335.00	58

Data File: 5972hp60.i/DF051007A60.b/DF051007A60.d

Instrument: 5972hp60.i

Operator: 917

Column diameter: 0.32

Data File: DF051007A60.d

Spectrum: Avg. Scans 248-250 (5.58), Background Scan 244

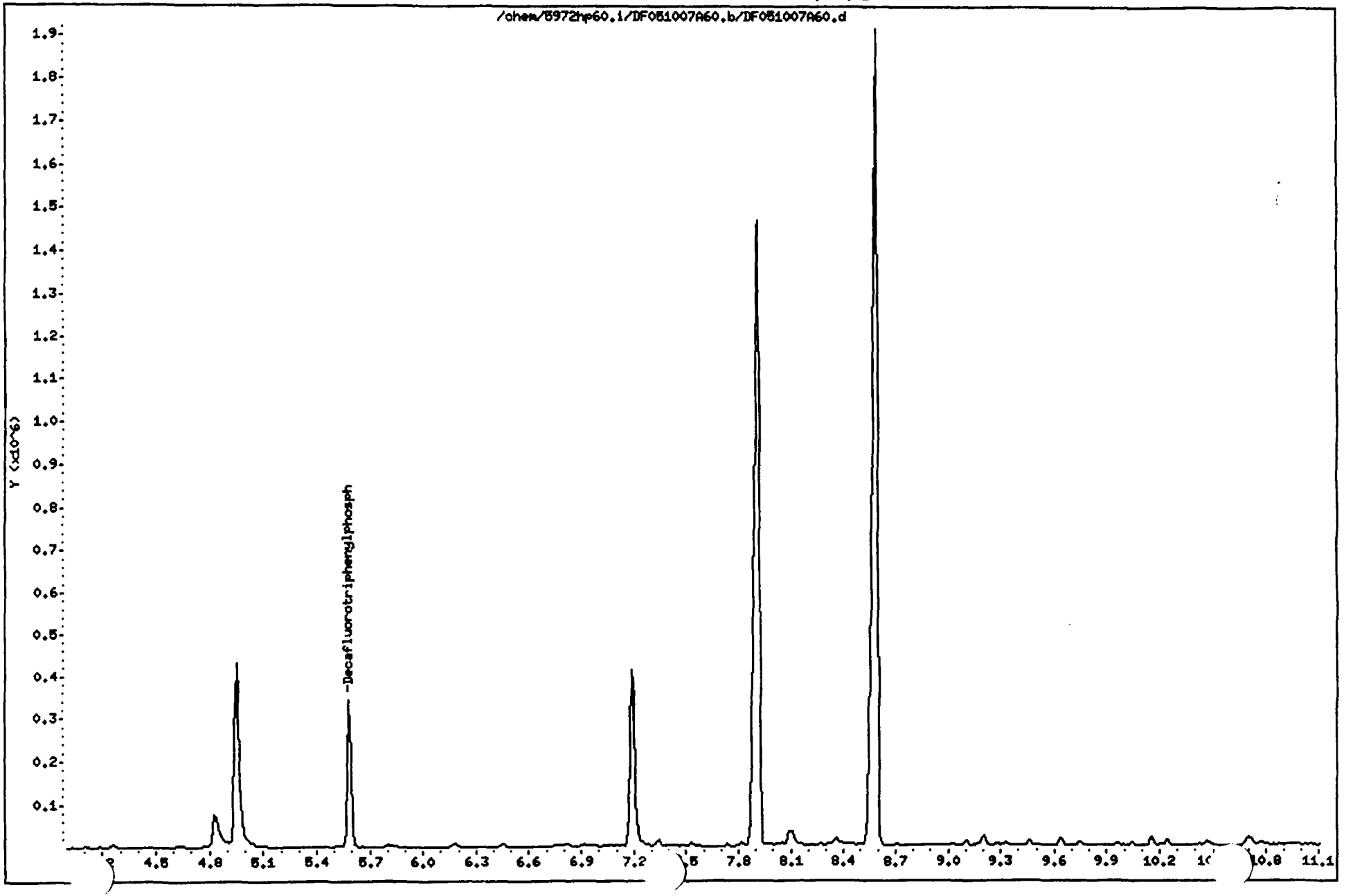
Location of Maximum: 198.00

Number of points: 235

m/z	Y	m/z	Y	m/z	Y	m/z	Y
[illegible]	128	157.00	123	227.00	1309	341.00	59
[illegible]	30	158.00	112	228.00	170	346.00	111
[illegible]	235	159.00	96	229.00	306	352.00	173
[illegible]	134	160.00	193	230.00	22	353.00	72
[illegible]	1507	161.00	317	231.00	103	354.00	171
[illegible]	92	162.00	62	233.00	19	355.00	23
[illegible]	52	163.00	17	234.00	85	365.00	656
[illegible]	24	164.00	24	235.00	104	366.00	65
[illegible]	1066	165.00	264	236.00	73	372.00	270
[illegible]	755	166.00	179	237.00	65	373.00	71
[illegible]	82	167.00	1199	239.00	25	383.00	62
[illegible]	496	168.00	451	240.00	37	390.00	18
[illegible]	21	169.00	131	241.00	68	402.00	98
[illegible]	196	170.00	23	242.00	165	403.00	166
[illegible]	339	171.00	28	243.00	81	404.00	52
[illegible]	303	172.00	129	244.00	2835	421.00	147
[illegible]	3682	173.00	156	245.00	393	422.00	144
[illegible]	501	174.00	290	246.00	494	423.00	1207
[illegible]	8491	175.00	464	247.00	121	424.00	234
[illegible]	1034	176.00	177	249.00	115	441.00	4288
[illegible]	142	177.00	270	253.00	53	442.00	25664
[illegible]	23	178.00	24	255.00	13393	443.00	5043
[illegible]	20	179.00	1052	256.00	1904	444.00	488
[illegible]	146	180.00	685	257.00	164		

Data File: /chem/5972hp60.i/DF051007A60.b/DF051007A60.d
Date : 07-OCT-2005 07:54
Client ID: DFTPP
Sample Info: DFTPP;917
Volume Injected (uL): 2.0
Column phase: RTX-5MS

Instrument: 5972hp60.i
Operator: 917
Column diameter: 0.32



b. Blank Data

Arranged in chronological order, by extraction date.

- Tabulated Results (Form I LCSV-1, LCSV-2)
- Tentatively Identified Compounds (Form I LCSV-TIC)
- Reconstructed Ion Chromatogram and quantitation report.
- Target compound spectra with lab-generated standard spectra.
- Quantitation/Calculation of TIC concentrations. (if applicable)
- GC/MS library search spectra for TICs. (if applicable)

1LCC
LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

SBLKNX

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 81076 Date Received: _____

Lab File ID: 81076A60 Date Extracted: 09/27/2005

Sample Volume: 1000(ML) Date Analyzed: 10/06/2005

Concentrated Extract Volume: 1000(UL) Dilution Factor: 1.0

Injection Volume: 1.0(UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
100-52-7	Benzaldehyde	5.0	U
108-95-2	Phenol	5.0	U
111-44-4	bis(2-Chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	5.0	U
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5.0	U
98-86-2	Acetophenone	5.0	U
106-44-5	4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	5.0	U
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	bis(2-Chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0	U
106-47-8	4-Chloroaniline	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	5.0	U
59-50-7	4-Chloro-3-methylphenol	5.0	U
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	U
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	20	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5.0	U

1LCD
LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

SBLKNX

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 81076 Date Received: _____

Lab File ID: 81076A60 Date Extracted: 09/27/2005

Sample Volume: 1000(ML) Date Analyzed: 10/06/2005

Concentrated Extract Volume: 1000(UL) Dilution Factor: 1.0

Injection Volume: 1.0(UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	5.0	U
84-66-2	Diethylphthalate	5.0	U
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-nitrosodiphenylamine (1)	5.0	U
95-94-3	1,2,4,5 Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	5.0	U
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
84-74-2	Di-n-butylphthalate	5.0	U
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	5.0	U
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo(a)anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	bis(2-Ethylhexyl)phthalate	14	
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo(b)fluoranthene	5.0	U
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U
53-70-3	Dibenzo(a,h)anthracene	5.0	U
191-24-2	Benzo(g,h,i)perylene	5.0	U

(1) - Cannot be separated from Diphenylamine

1LCG
LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS EPA SAMPLE NO.

SBLKNX

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 81076 Date Received: _____

Lab File ID: 81076A60 Date Extracted: 09/27/2005

Sample Volume: 1000(ML) Date Analyzed: 10/06/2005

Concentrated Extract Volume: 1000(UL) Dilution Factor: 1.0

Injection Volume: 1.0(UL)

Number TICs found: 1

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
01		UNKNOWN	28.48	2.2	J
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

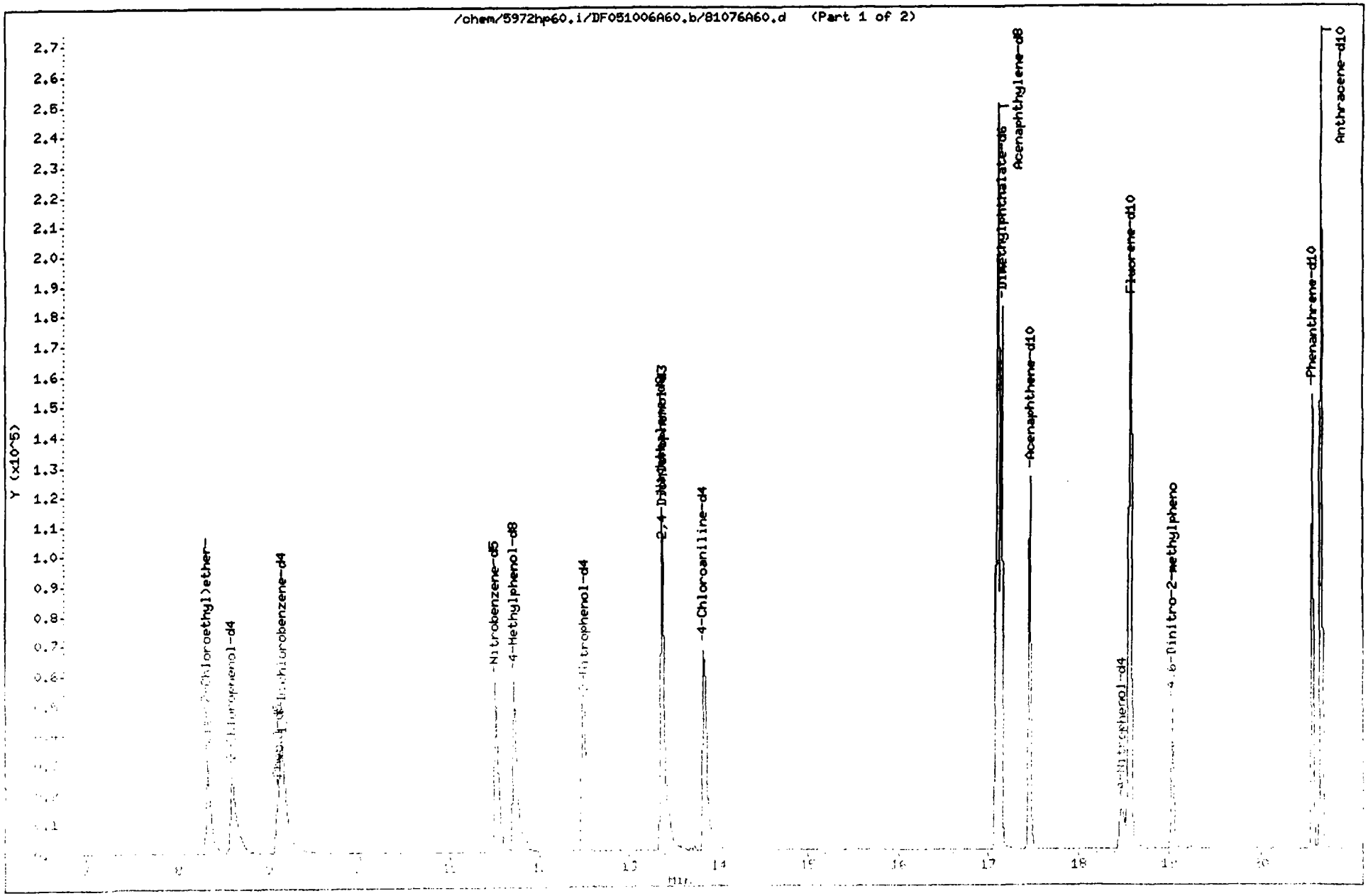
Data File: /chem/5972hp60.i/DF051006A60.b/81076A60.d
Date : 06-OCT-2005 16:12
Client ID: SBLKNX
Sample Info:
Volume Injected (uL): 1.0
Column phase: RTX-5MS

Instrument: 5972hp60.i

Operator: 917
Column diameter: 0.32

COPY
ORIGINAL DOCUMENTS INCLUDED IN CSF 34657
SIGNATURE DH DATE 10/7/05

KA000260



COPY

ORIGINAL DOCUMENTS INCLUDED IN CSF- 31657

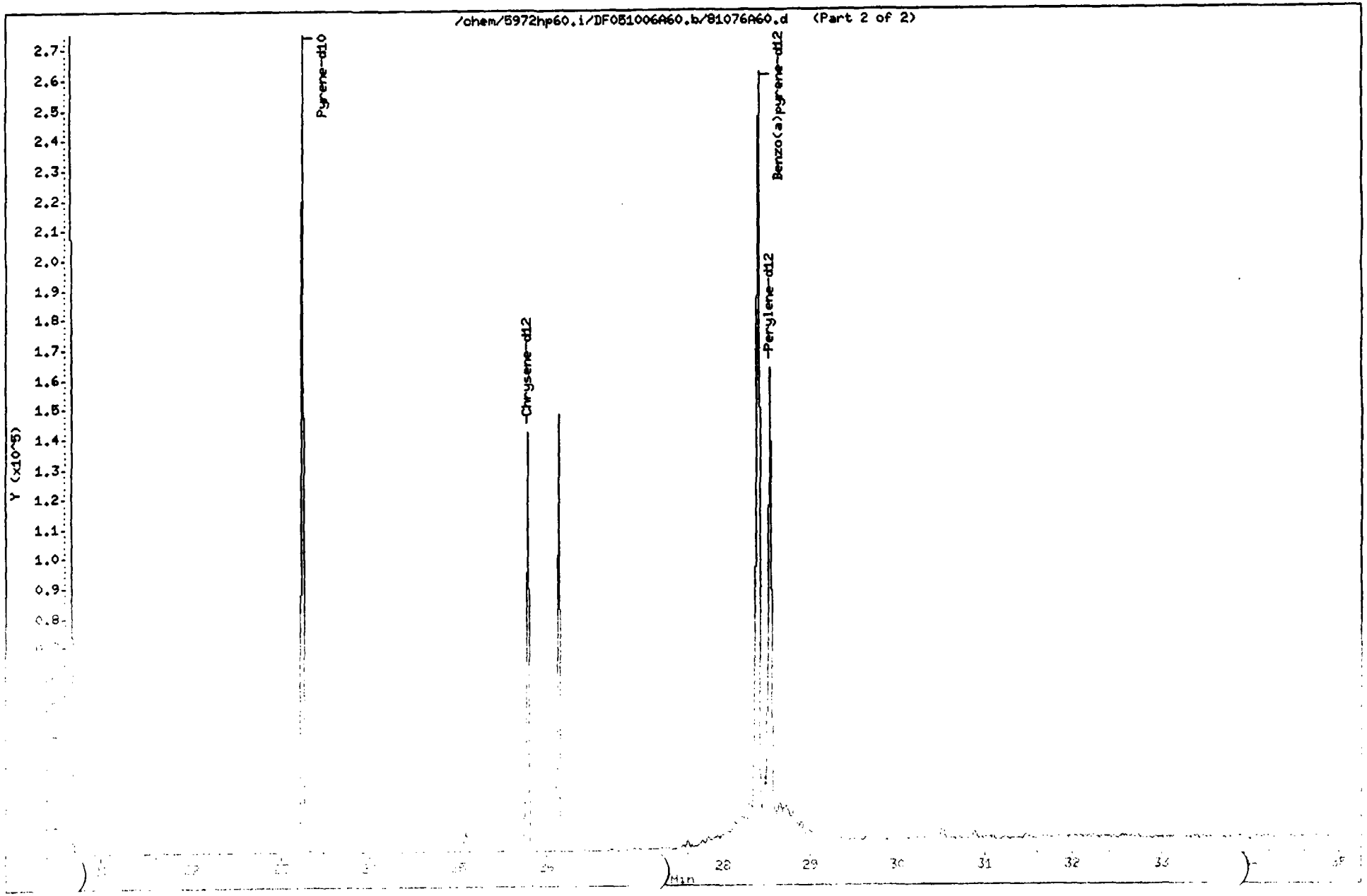
SIGNATURE DH DATE 11/7/05

X06G0 261

Data File: /chem/5972hp60.i/DF051006A60.b/81076A60.d
Date : 06-OCT-2005 16:12
Client ID: SBLKNX
Sample Info:
Volume Injected (uL): 1.0
Column phase: RTX-5MS

Instrument: 5972hp60.i

Operator: 917
Column diameter: 0.32



Data File: /chem/5972hp60.i/DF051006A60.b/81076A60.d
Report Date: 07-Oct-2005 12:02

CompuChem

OLC03.0 + REVISIONS QUANT AND RATIO REPORT

Data file : /chem/5972hp60.i/DF051006A60.b/81076A60.d
Lab Smp Id: 81076 Client Smp ID: SBLKNX
Inj Date : 06-OCT-2005 16:12
Operator : 917 Inst ID: 5972hp60.i
Smp Info :
Misc Info :
Comment :
Method : /chem/5972hp60.i/DF051006A60.b/OLC03v5.m
Meth Date : 07-Oct-2005 10:57 henning Quant Type: ISTD
Cal Date : 06-OCT-2005 09:21 Cal File: HG051006A60.d
Als bottle: 11 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: OLC03.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/(Vo * Vi) * CpndVariable

Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)	SIMILARITY
* 1	1,4-Dichlorobenzene-d4	152	9.145	9.130	(1.000)	20503	20.0000		
* 2	Naphthalene-d8	136	13.357	13.359	(1.000)	87922	20.0000		8849
* 3	Acenaphthene-d10	164	17.468	17.453	(1.000)	56109	20.0000		7726
* 4	Phenanthrene-d10	188	20.564	20.566	(1.000)	93736	20.0000		8764
* 5	Chrysene-d12	240	25.775	25.777	(1.000)	80542	20.0000		8343
* 6	Perylene-d12	264	28.533	28.534	(1.000)	88008	20.0000		8297(H)
$ 7	Phenol-d5	99	9.094	9.079	(0.994)	60205	32.1835	32	7119
$ 8	bis-(2-Chloroethyl)ether-d8	67	8.316	8.317	(0.909)	38854	33.6847	34	8933
$ 9	2-Chlorophenol-d4	132	8.587	8.571	(0.939)	48321	33.3573	33	8901
$ 10	4-Methylphenol-d8	113	11.699	11.701	(1.279)	54411	34.6222	35	9490
$ 11	Nitrobenzene-d5	128	11.496	11.498	(0.861)	26029	32.5679	33	8591
$ 12	2-Nitrophenol-d4	143	12.495	12.479	(0.935)	31368	32.3543	32	8965
$ 13	2,4-Dichlorophenol-d3	165	13.374	13.359	(1.001)	49497	30.3924	30	7640
$ 14	4-Chloroaniline-d4	131	13.831	13.833	(1.035)	70729	32.5115	33	9262(R)
$ 15	Dimethylphthalate-d6	166	17.147	17.132	(0.982)	158312	37.7880	38	9105
$ 16	Acenaphthylene-d8	160	17.096	17.098	(0.979)	195286	34.2929	34	9377
$ 17	4-Nitrophenol-d4	143	18.467	18.400	(1.057)	20372	36.9889	37	6064(M)
$ 18	Fluorene-d10	176	18.568	18.553	(1.063)	121625	35.4165	35	9358
$ 19	4,6-Dinitro-2-methylphenol-d2	200	19.025	19.026	(0.925)	18146	23.2872	23	7696

10/7/05 DH

Data File: /chem/5972hp60.i/DF051006A60.b/81076A60.d
Report Date: 07-Oct-2005 12:02

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)	SIMILARITY
$	20 Anthracene-d10	188	20.649	20.650	(1.004)	175594	37.6363	38	9355(H)
$	21 Pyrene-d10	212	23.254	23.256	(0.902)	200253	39.6855	40	9217
$	22 Benzo(a)pyrene-d12	264	28.397	28.382	(1.000)	190781	39.1867	39	8316(H)
	23 Benzaldehyde	77	Compound Not Detected.						
	24 Phenol	94	Compound Not Detected.						
	25 bis(2-Chloroethyl)ether	93	Compound Not Detected.						
	26 2-Chlorophenol	128	Compound Not Detected.						
	27 2-Methylphenol	108	Compound Not Detected.						
	28 2,2'-oxybis(1-Chloropropane)	45	Compound Not Detected.						
	30 Acetophenone	105	Compound Not Detected.						
	31 4-Methylphenol	108	Compound Not Detected.						
	32 N-Nitroso-di-n-propylamine	70	Compound Not Detected.						
	33 Hexachloroethane	117	Compound Not Detected.						
	34 Nitrobenzene	77	Compound Not Detected.						
	35 Isophorone	82	Compound Not Detected.						
	36 2-Nitrophenol	139	Compound Not Detected.						
	37 2,4-Dimethylphenol	107	Compound Not Detected.						
	38 bis(2-Chloroethoxy)methane	93	Compound Not Detected.						
	39 2,4-Dichlorophenol	162	Compound Not Detected.						
	40 Naphthalene	128	Compound Not Detected.						
	41 4-Chloroaniline	127	Compound Not Detected.						
	42 Hexachlorobutadiene	225	Compound Not Detected.						
	43 Caprolactam	113	Compound Not Detected.						
	44 4-Chloro-3-methylphenol	107	Compound Not Detected.						
	45 2-Methylnaphthalene	142	Compound Not Detected.						
	46 1,2,4,5 Tetrachlorobenzene	216	Compound Not Detected.						
	47 Hexachlorocyclopentadiene	237	Compound Not Detected.						
	49 2,4,6-Trichlorophenol	196	Compound Not Detected.						
	50 2,4,5-Trichlorophenol	196	Compound Not Detected.						
	51 1,1'-Biphenyl	154	Compound Not Detected.						
	52 2-Chloronaphthalene	162	Compound Not Detected.						
	53 2-Nitroaniline	65	Compound Not Detected.						
	54 Dimethylphthalate	163	Compound Not Detected.						
	55 2,6-Dinitrotoluene	165	Compound Not Detected.						
	56 Acenaphthylene	152	Compound Not Detected.						
	57 3-Nitroaniline	138	Compound Not Detected.						
	58 Acenaphthene	153	Compound Not Detected.						
	59 2,4-Dinitrophenol	184	Compound Not Detected.						
	60 4-Nitrophenol	109	Compound Not Detected.						
	61 Dibenzofuran	168	Compound Not Detected.						
	62 2,4-Dinitrotoluene	165	Compound Not Detected.						
	63 Diethylphthalate	149	Compound Not Detected.						
	64 Fluorene	166	Compound Not Detected.						
	65 4-Chlorophenyl-phenylether	204	Compound Not Detected.						
	66 4-Nitroaniline	138	Compound Not Detected.						
	67 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.						
	68 N-nitrosodiphenylamine	169	Compound Not Detected.						

10/16/05 JH

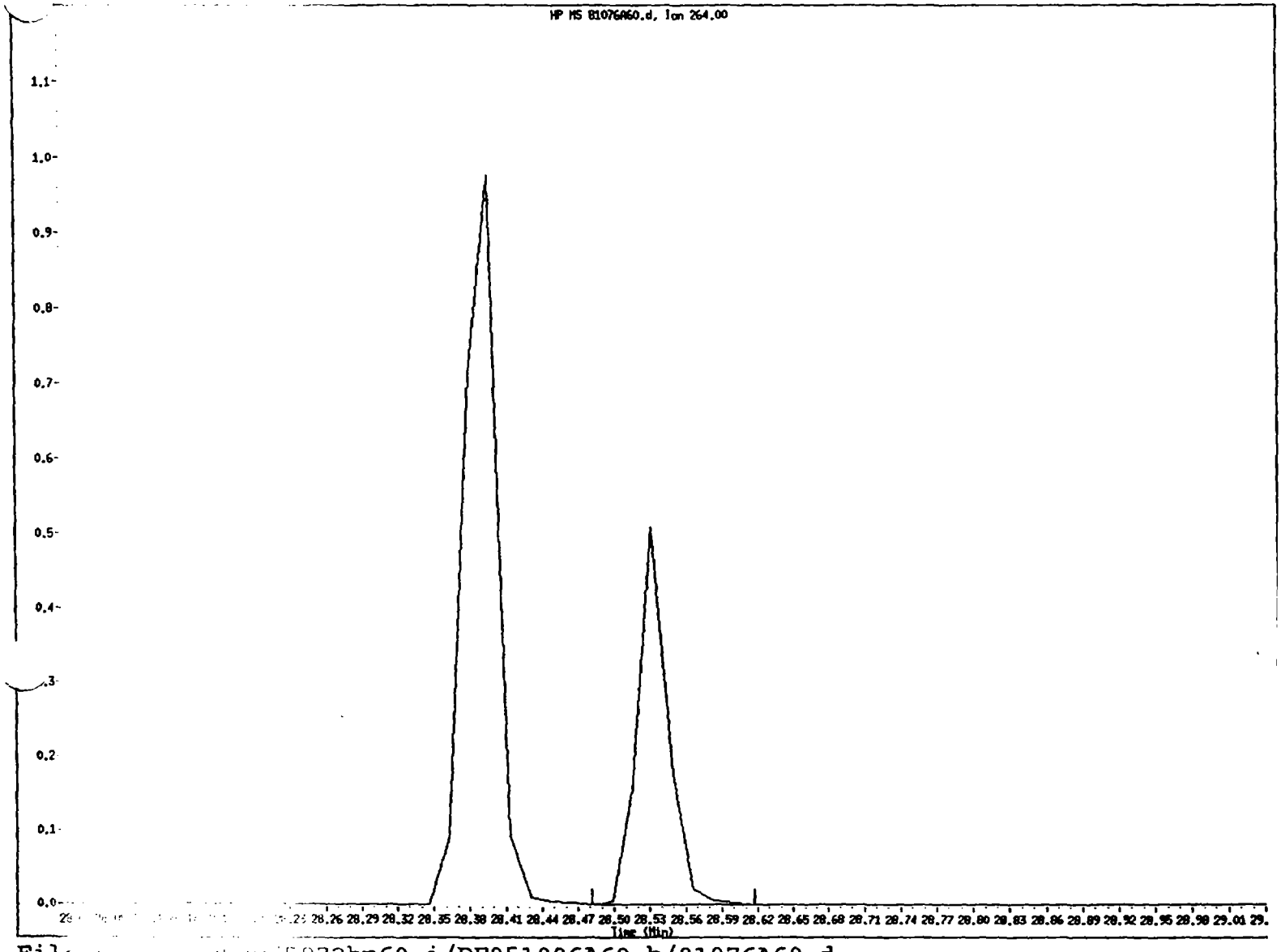
Data File: /chem/5972hp60.i/DF051006A60.b/81076A60.d
Report Date: 07-Oct-2005 12:02

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)	SIMILARITY
69 4-Bromophenyl-phenylether	248	Compound Not Detected.						
70 Hexachlorobenzene	284	Compound Not Detected.						
71 Atrazine	200	Compound Not Detected.						
72 Pentachlorophenol	266	Compound Not Detected.						
73 Phenanthrene	178	Compound Not Detected.						
74 Anthracene	178	Compound Not Detected.						
75 Di-n-butylphthalate	149	Compound Not Detected.						
76 Fluoranthene	202	Compound Not Detected.						
77 Pyrene	202	Compound Not Detected.						
78 Butylbenzylphthalate	149	Compound Not Detected.						
79 3,3'-Dichlorobenzidine	252	Compound Not Detected.						
80 bis(2-Ethylhexyl)phthalate	149	26.130	26.132	(1.014)	69475	14.3982	14	9276
81 Benzo(a)anthracene	228	Compound Not Detected.						
82 Chrysene	228	Compound Not Detected.						
83 Di-n-octylphthalate	149	Compound Not Detected.						
84 Benzo(b)fluoranthene	252	Compound Not Detected.						
85 Benzo(k)fluoranthene	252	Compound Not Detected.						
86 Benzo(a)pyrene	252	Compound Not Detected.						
87 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.						
88 Dibenzo(a,h)anthracene	278	Compound Not Detected.						
89 Benzo(g,h,i)perylene	276	Compound Not Detected.						

QC Flag Legend

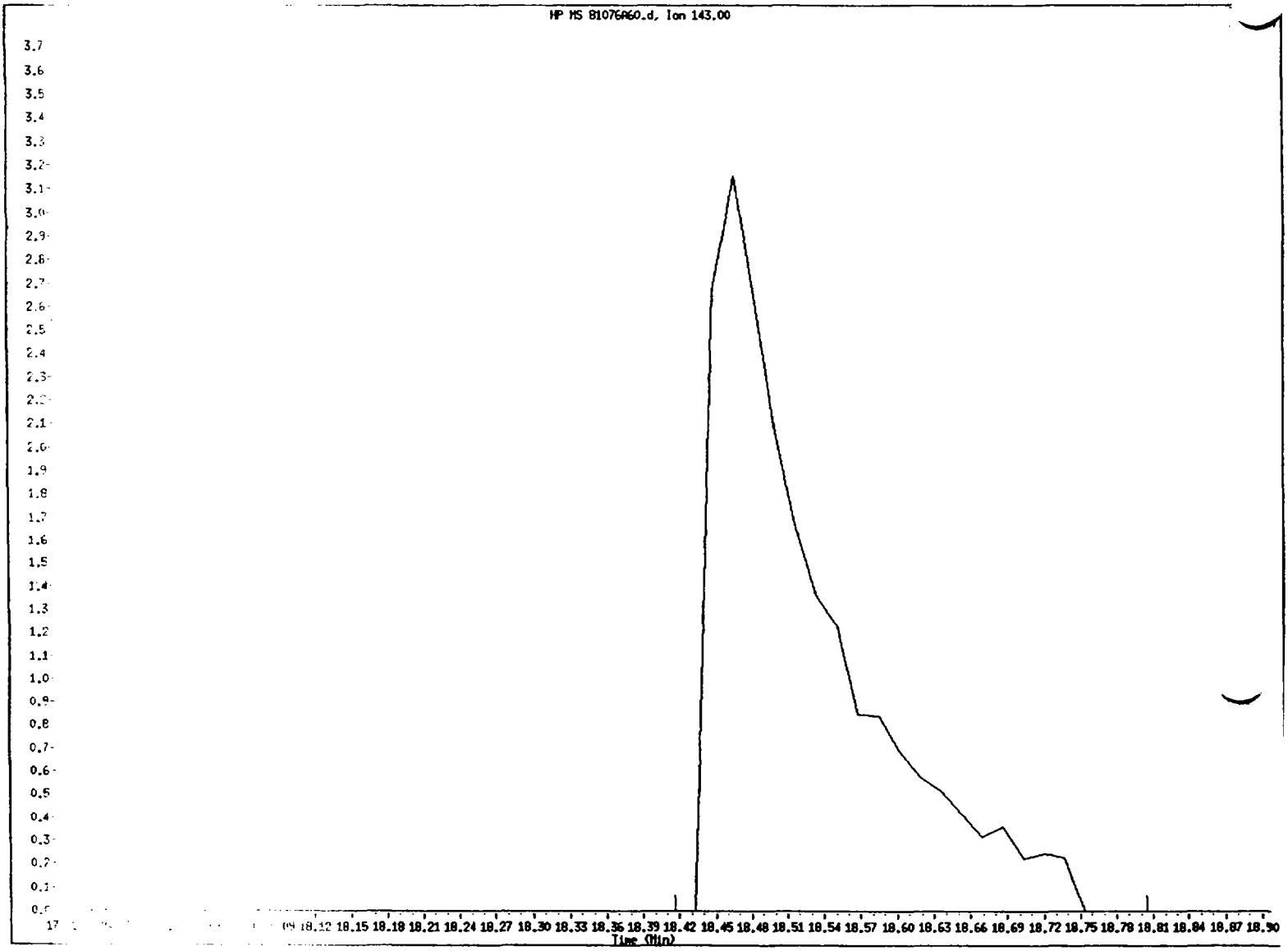
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Pery[illegible] CAS Number 1520-96-3 Area = 88008 User selected hit



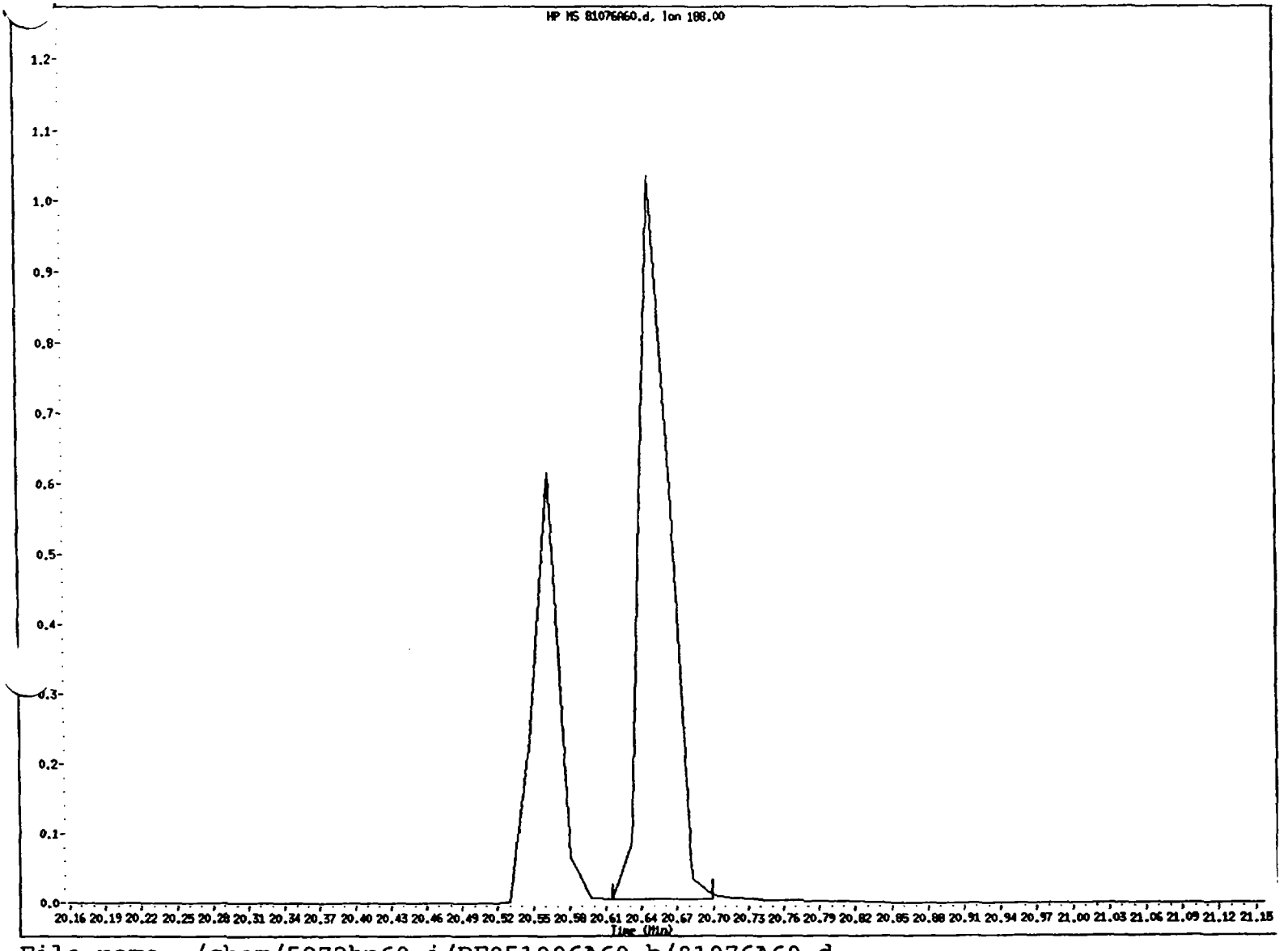
File [illegible]5972hp60.i/DF051006A60.b/81076A60.d
Cli[illegible]NX
Ins[illegible]5972hp60.i
Inj[illegible]and Time: 06-OCT-2005 16:12
Ret[illegible]28.53
Ope[illegible]17

4-N[illegible] CAS Number 93951-79-2 Area = 20372 Manually integrated



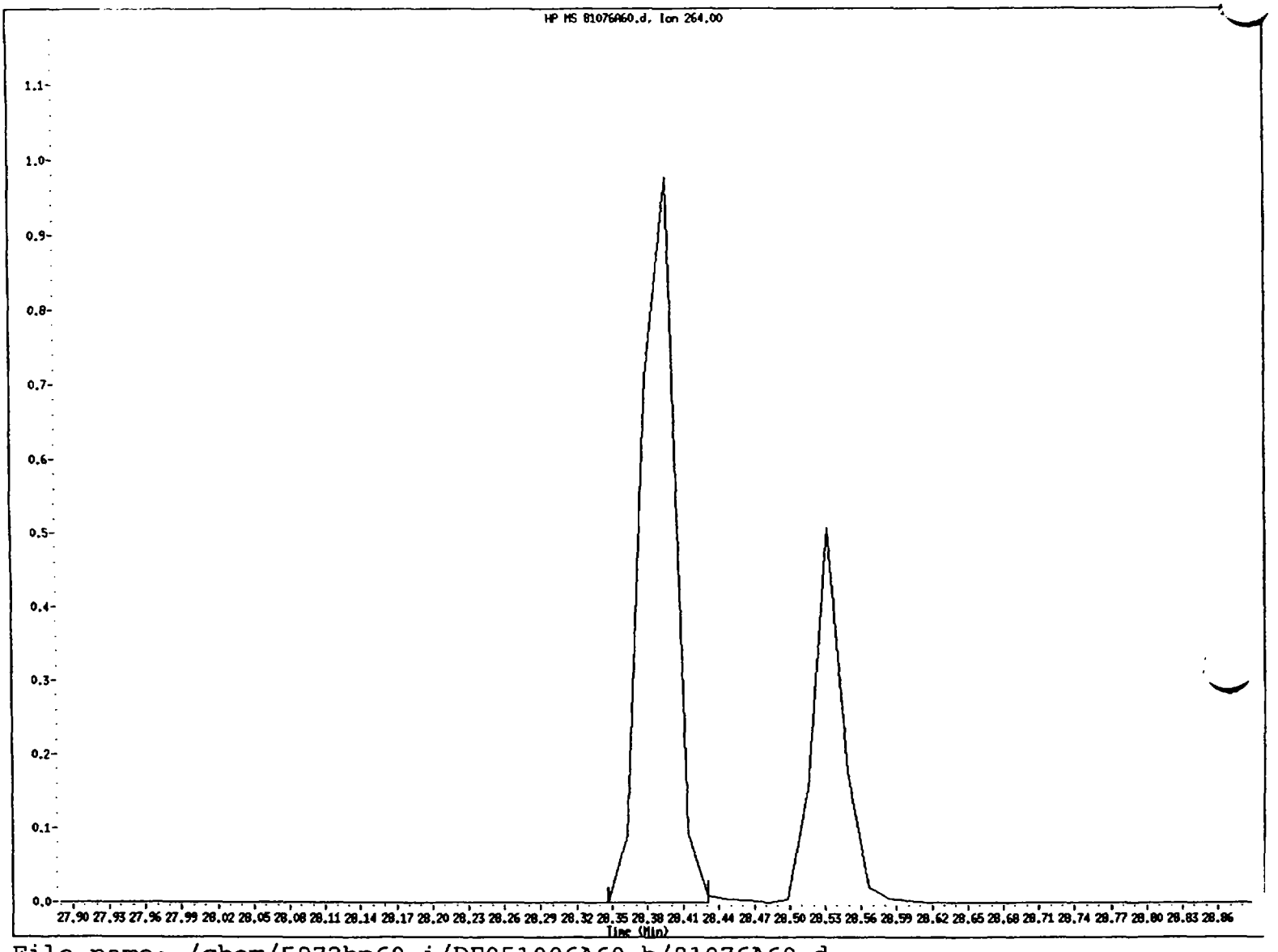
File [illegible]5972hp60.i/DF051006A60.b/81076A60.d
Client ID: SBLKUX
Instrument ID: 5972hp60.i
Injection Date and Time: 06-OCT-2005 16:12
Retention Time: 18.47
Operator ID: 317

Anthracene-d10 CAS Number 1719-06-8 Area = 175594 User selected hit



File name: /chem/5972hp60.i/DF051006A60.b/81076A60.d
Client ID: SBLKNX
Instrument ID: 5972hp60.i
Injection Date and Time: 06-OCT-2005 16:12
Retention Time: 20.65
Operator ID: 917

Benzo(a)pyrene-d12 CAS Number 63466-71-7 Area = 190781 User selected hit



File name: /chem/5972hp60.i/DF051006A60.b/81076A60.d
Client ID: SBLKNX
Instrument ID: 5972hp60.i
Injection Date and Time: 06-OCT-2005 16:12
Retention Time: 28.40
Operator ID: 917

Data File: /chem/5972hp60.i/DF051006A60.b/81076A60.d

Date : 06-OCT-2005 16:12

Client ID: SBLKNX

Instrument: 5972hp60.i

Sample Info:

Volume Injected (uL): 1.0

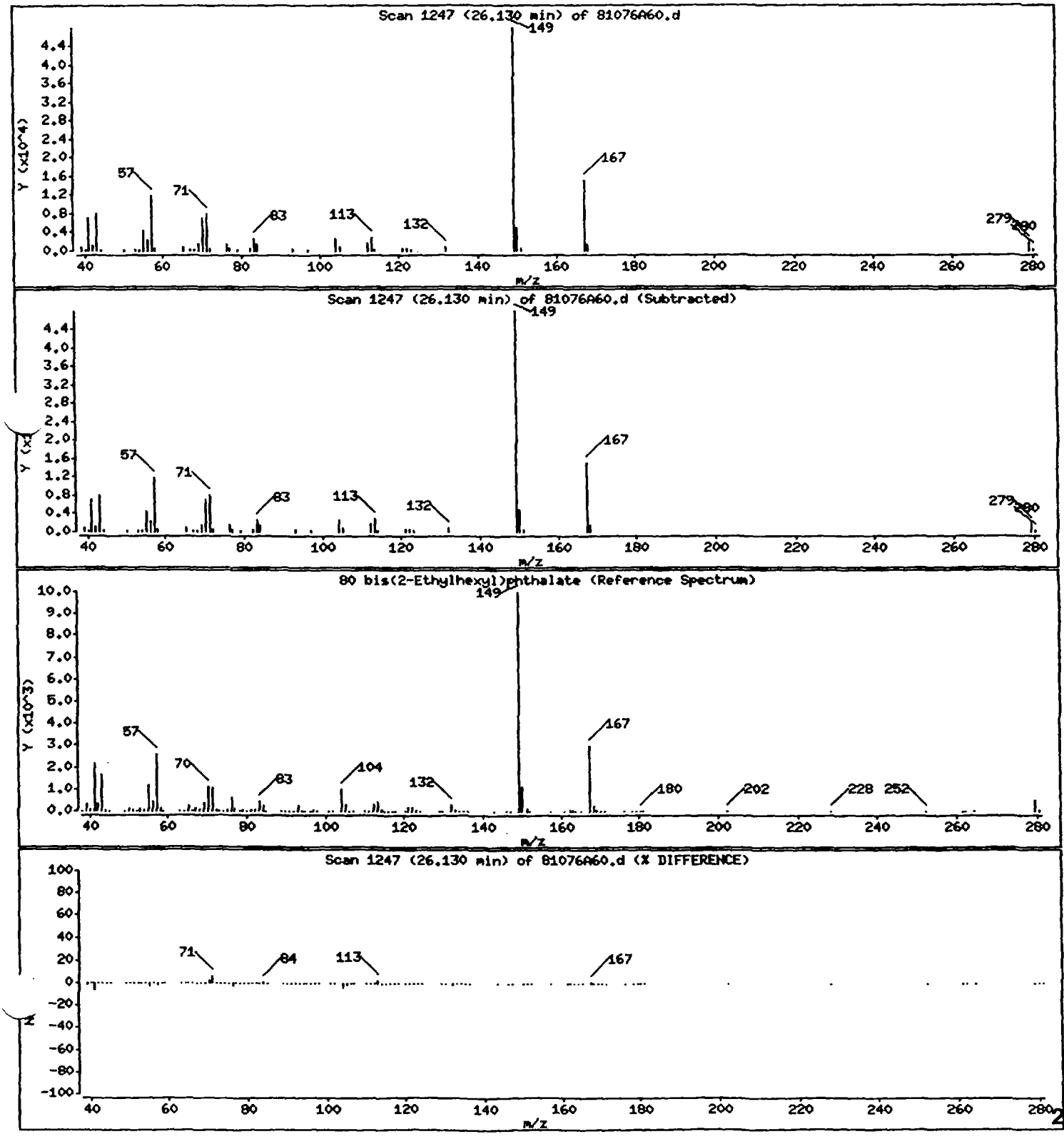
Operator: 917

Column phase: RTX-5MS

Column diameter: 0.32

80 bis(2-Ethylhexyl)phthalate

Concentration: 14 ug/L



Data File: /chem/5972hp60.i/DF051006A60.b/81076A60.d
Report Date: 07-Oct-2005 12:02

CompuChem

OLC03.0 + REVISIONS QUANT AND RATIO REPORT

Data file : /chem/5972hp60.i/DF051006A60.b/81076A60.d
Lab Smp Id: 81076 Client Smp ID: SBLKNX
Inj Date : 06-OCT-2005 16:12
Operator : 917 Inst ID: 5972hp60.i
Smp Info :
Misc Info :
Comment :
Method : /chem/5972hp60.i/DF051006A60.b/OLC03v5.m
Meth Date : 07-Oct-2005 10:57 henning Quant Type: ISTD
Cal Date : 06-OCT-2005 09:21 Cal File: HG051006A60.d
Als bottle: 11 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: OLC03.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/(Vo * Vi) * CpndVariable

Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
* 6 Perylene-d12	28.533	287763	20.000

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(NG)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown			CAS #:				
28.482	32342	2.24781483	2.2	0		0	6

Data File: /chem/5972hp60.i/DF051006A60.b/81076A60.d

Date : 06-OCT-2005 16:12

Client ID: SBLKNX

Instrument: 5972hp60.i

Sample Info:

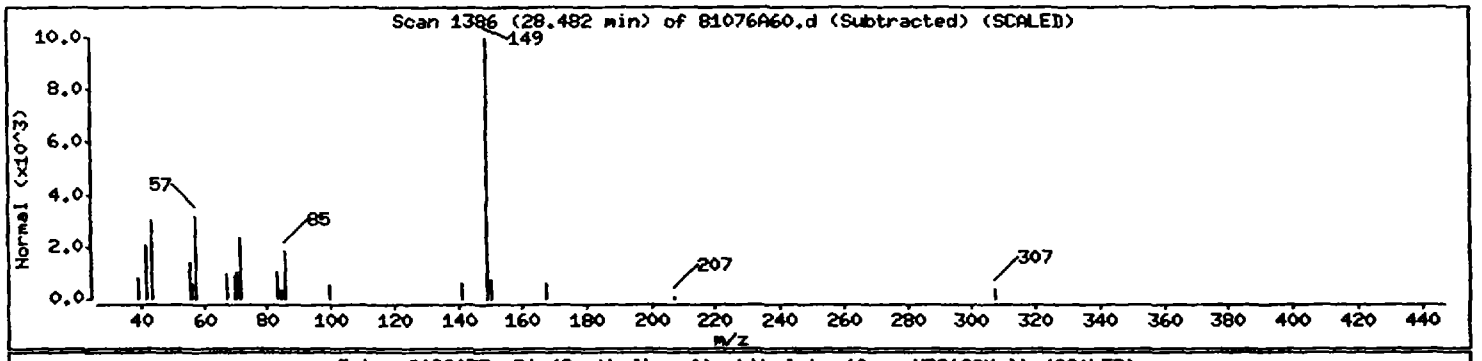
Volume Injected (uL): 1.0

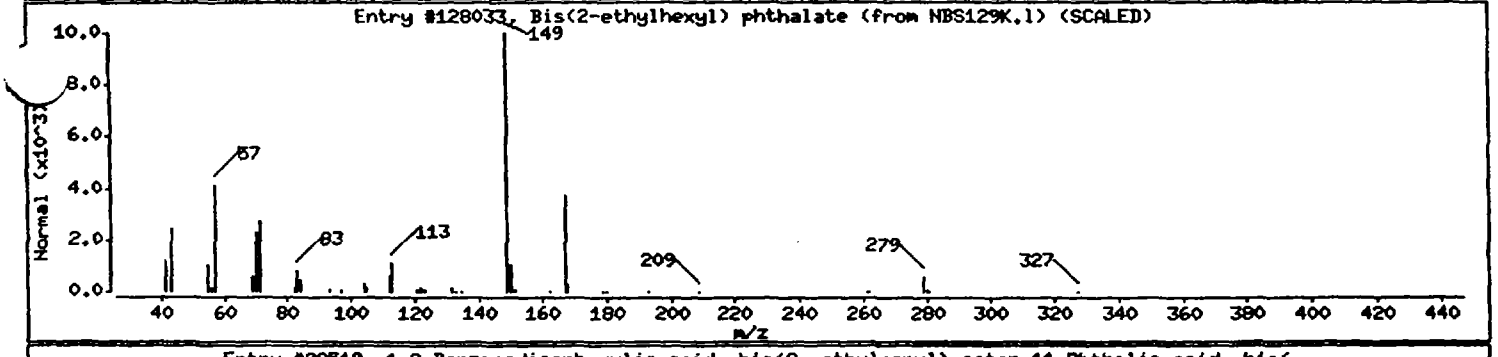
Operator: 917

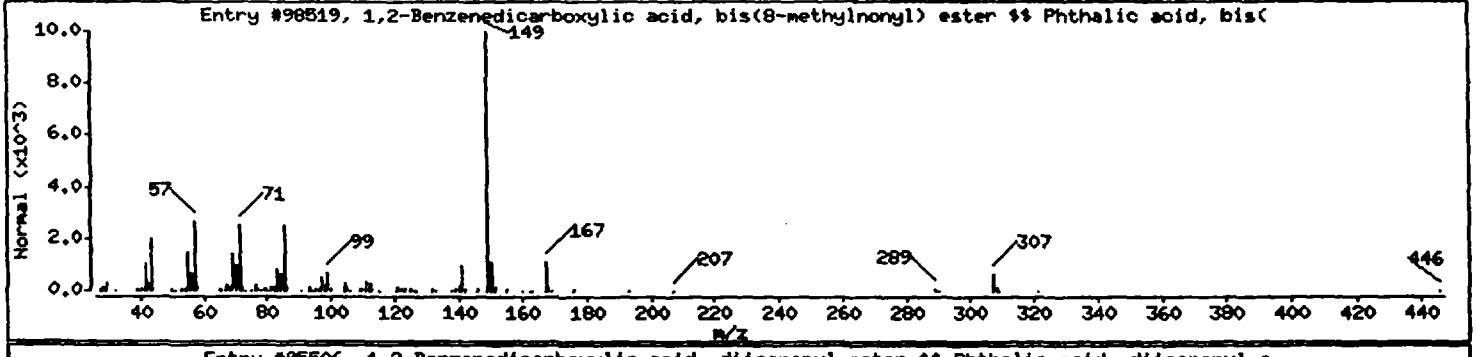
Column phase: RTX-5MS

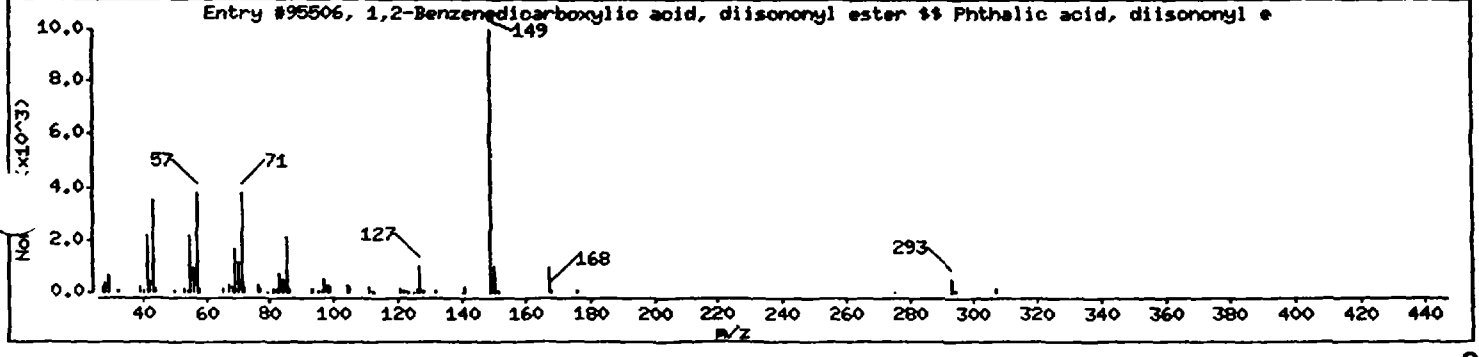
Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Bis(2-ethylhexyl) phthalate	117-81-7	NBS129K.l	128033	50	C24H3804	390
1,2-Benzenedicarboxylic acid, bis(8-meth	89-16-7	NBS129K.l	98519	47	C28H4604	446
1,2-Benzenedicarboxylic acid, diisononyl	28553-12-0	NBS129K.l	95506	47	C26H4204	418









EXTRACTION WORKSHEET

Semi-volatiles Low Conc. (OLC[illegible]us revisions)

[redacted]

1085

ASSIGNED Norma/Allen

BATCH NO.:

EMP ID NUMBER: 1151 2566

	COMPUCHEM NUMBER	CLIENT SAMPLE ID	QC SAMPLE TYPE	SAMPLE VOLUME (ml)	FINAL VOLUME (ml)	INITIAL pH	ADJUSTED pH ACID	9-29-1 COMMENTS
1	778902	X06G0	SAMPLE	1000	1.0	~~7~~ 5.0	1.9	QB PE - 1.0ml ampule/1.0ml surrogate added
2	782901	ACSGWPWA26	SAMPLE	1000	1.0	7	1.9	
3	782902	ACSGWPWDUP26	SAMPLE	1000	1.0	7	1.9	
4	782903	ACSGWPWB26	SAMPLE	1100	1.0	7	1.9	QC
5	782904	ACSGWPWT26	SAMPLE	1000	1.0	7	1.9	
6	782905	ACSGWPWC26	SAMPLE	1000	1.0	7	1.9	
7	782907	ACSGWPWD26	SAMPLE	1000	1.0	7	1.9	
8	81086	ACSGWPWB26MSD	MSD	1000	1.0	7	1.9	
9	81085	ACSGWPWB26MS	MS	1000	1.0	7	1.9	
10	81076	SBLKNX	MB	1000	1.0	5	1.9	
11	81077	SNXLCS	LCS	1000	1.0	5	1.9	
12								
13								
14								
15								
16								
17								
18								
19								
20								Date/Time Started: 9/27/05 4:20 pm
21								Date/Time Stopped: 9/28/05 10:20 am
22								
23								
24								
25								
26								

VG 9/27/05

VG 9/29/05

VG 9/29/05

HIGH CONC. DMC SOLUTION	NO.	447
	AMT.	1.0 ml
	LOT	57930
MATRIX SPIKE SOLUTION	NO.	2036
	AMT.	1.0 ml
	LOT	57768

*DMC = Deuterated Monitoring Compound

Witness AW / 9/27/05
Initials Date

FINAL VOLUME VERIFIED: [illegible]

SUPERVISOR REVIEWED: [illegible]

SURROGATE & SPIKE ADDED BY: AB / 9/27/05
Initials Date

Analysts initials Set Up AB/AW KD JP N2 JP Bottle up VG

Rev. 7/24/03:dce

Manufacturer and lot number of reagents/solvents uses CH_2Cl_2 - ~~75166~~ B19E45, H_2SO_4 - 53821

VG 9/29/05

c. Matrix Spike Data

- Tabulated Results (Form I LCSV-1, LCSV-2)
  (LCSV-TIC not required)

- Reconstructed Ion Chromatogram and quantitation report. Spectra not needed.

1LCC
LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

ACSGWPWB26MS

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 81085 Date Received: 09/27/2005

Lab File ID: 81085A60 Date Extracted: 09/27/2005

Sample Volume: 1000(ML) Date Analyzed: 10/07/2005

Concentrated Extract Volume: 1000(UL) Dilution Factor: 1.0

Injection Volume: 1.0(UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
100-52-7	Benzaldehyde	5.0	U
108-95-2	Phenol	49	
111-44-4	bis(2-Chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	48	
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5.0	U
98-86-2	Acetophenone	5.0	U
106-44-5	4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	13	
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	bis(2-Chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0	U
106-47-8	4-Chloroaniline	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	5.0	U
59-50-7	4-Chloro-3-methylphenol	59	
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	U
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	20	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	13	

1LCD
LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

ACSGWPWB26MS

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 81085 Date Received: 09/27/2005

Lab File ID: 81085A60 Date Extracted: 09/27/2005

Sample Volume: 1000(ML) Date Analyzed: 10/07/2005

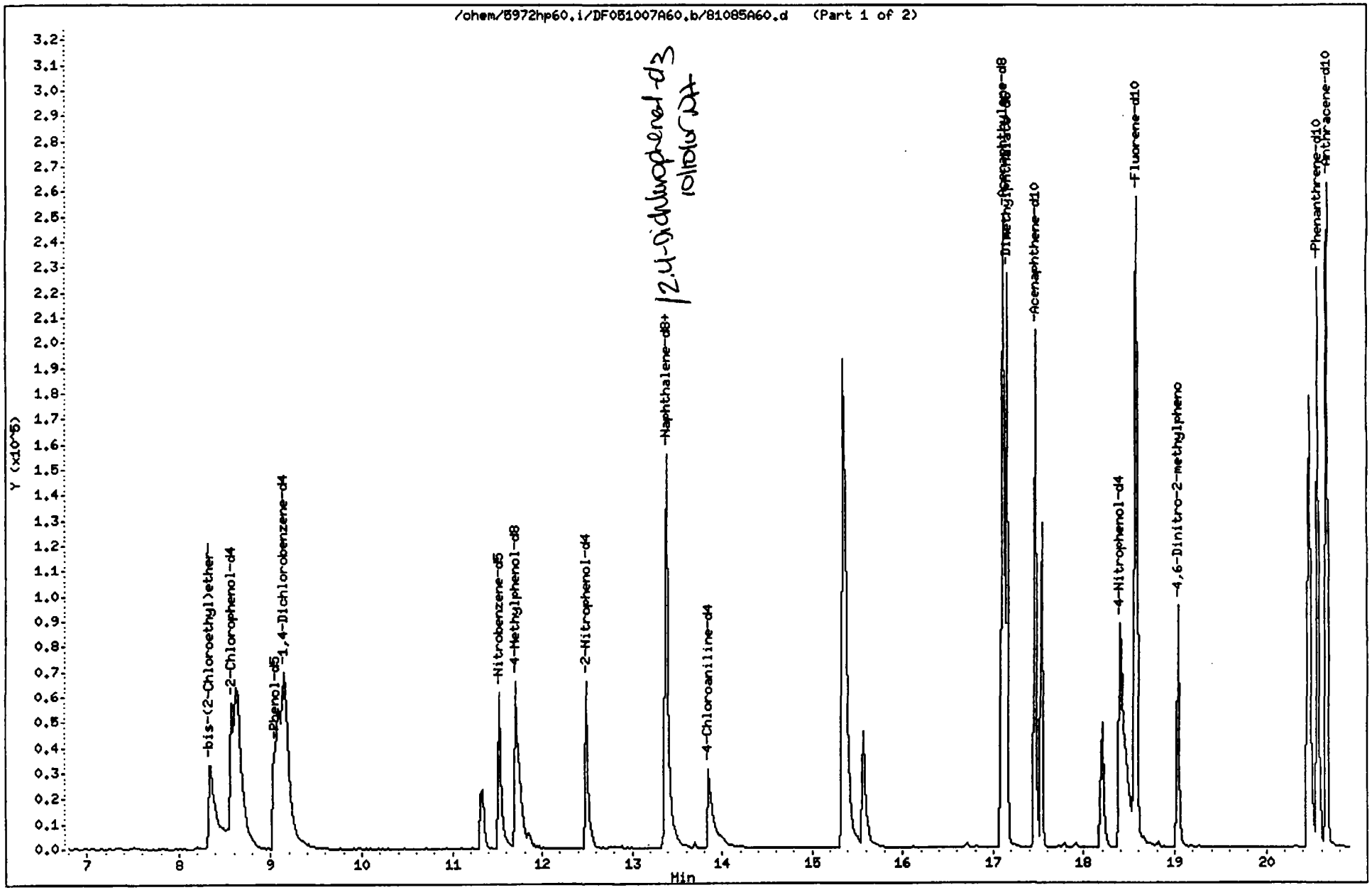
Concentrated Extract Volume: 1000(UL) Dilution Factor: 1.0

Injection Volume: 1.0(UL)

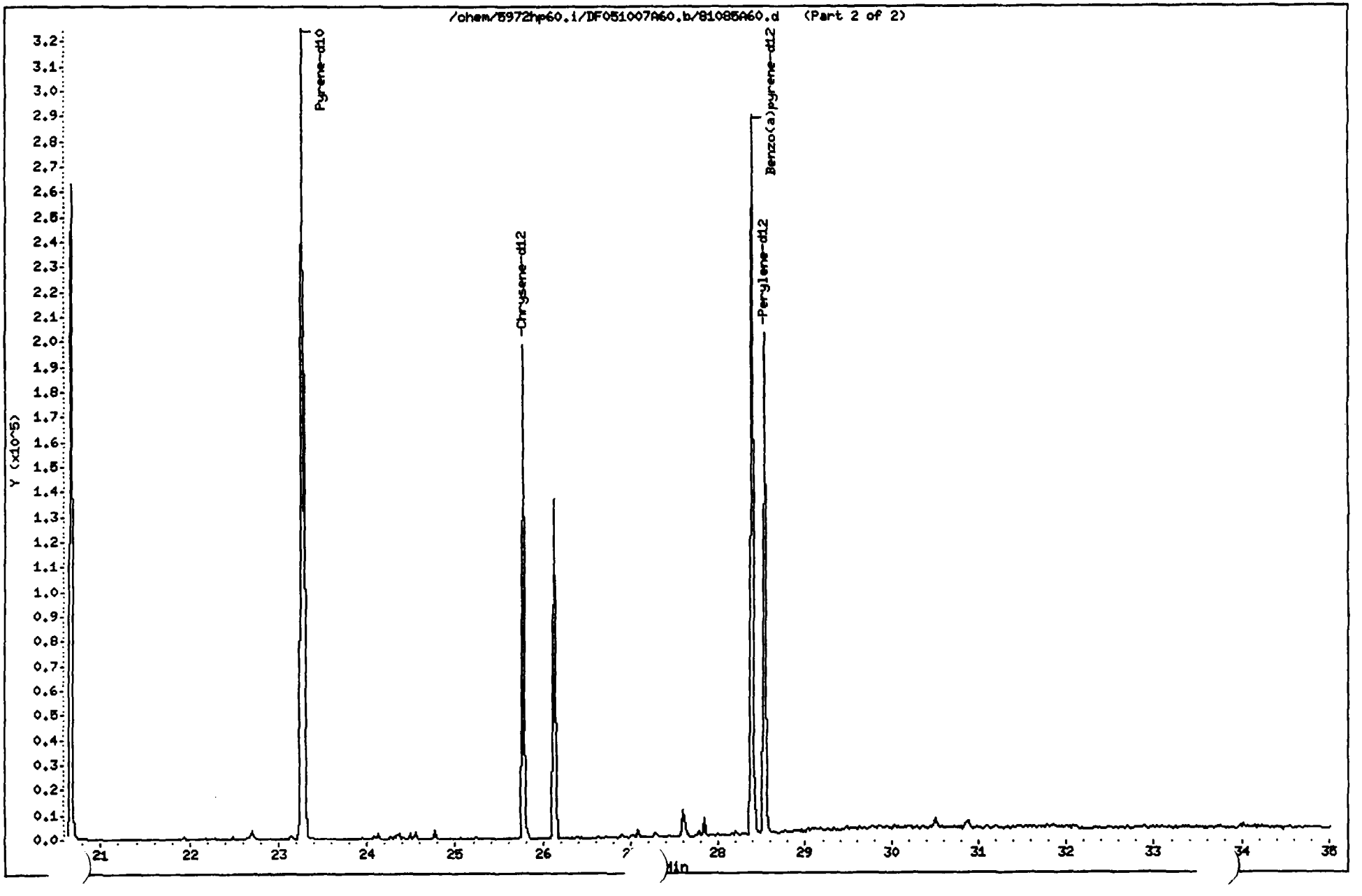
CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	67	
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	14	
84-66-2	Diethylphthalate	5.0	U
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-nitrosodiphenylamine (1)	5.0	U
95-94-3	1,2,4,5 Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	100	E
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
84-74-2	Di-n-butylphthalate	5.0	U
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	16	
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo(a)anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	bis(2-Ethylhexyl)phthalate	9.8	B
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo(b)fluoranthene	5.0	U
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U
53-70-3	Dibenzo(a,h)anthracene	5.0	U
191-24-2	Benzo(g,h,i)perylene	5.0	U

(1) - Cannot be separated from Diphenylamine

Data File: /chem/5972hp60.i/DF051007A60.b/81085A60.d
Date : 07-OCT-2005 09:26
Client ID: ACSGWPWB26HS
Instrument: 5972hp60.i
Sample Info:
Volume Injected (uL): 1.0
Operator: 917
Column phase: RTX-5MS
Column diameter: 0.32



Data File: /chem/5972hp60.i/DF051007A60.b/81085A60.d
Date : 07-OCT-2005 09:26
Client ID: ACSGWPWB26MS
Instrument: 5972hp60.i
Sample Info:
Volume Injected (uL): 1.0
Operator: 917
Column phase: RTX-5MS
Column diameter: 0.32



Data File: /chem/5972hp60.i/DF051007A60.b/81085A60.d
Report Date: 10-Oct-2005 09:31

CompuChem

OLC03.0 + REVISIONS QUANT AND RATIO REPORT

Data file : /chem/5972hp60.i/DF051007A60.b/81085A60.d
Lab Smp Id: 81085 Client Smp ID: ACSGWPWB26MS
Inj Date : 07-OCT-2005 09:26
Operator : 917 Inst ID: 5972hp60.i
Smp Info :
Misc Info :
Comment :
Method : /chem/5972hp60.i/DF051007A60.b/OLC03v5.m
Meth Date : 10-Oct-2005 08:59 henning Quant Type: ISTD
Cal Date : 07-OCT-2005 08:40 Cal File: HG051007A60.d
Als bottle: 3 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: OLC03.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/(Vo * Vi) * CpndVariable

Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)	SIMILARITY
* 1	1,4-Dichlorobenzene-d4	152	9.148	9.142	(1.000)	28910	20.0000		
* 2	Naphthalene-d8	136	13.377	13.371	(1.000)	119217	20.0000		8750
* 3	Acenaphthene-d10	164	17.472	17.465	(1.000)	78704	20.0000		7680
* 4	Phenanthrene-d10	188	20.568	20.578	(1.000)	127541	20.0000		8792
* 5	Chrysene-d12	240	25.778	25.789	(1.000)	115369	20.0000		8337
* 6	Perylene-d12	264	28.536	28.547	(1.000)	123431	20.0000		8280(H)
$ 7	Phenol-d5	99	9.047	9.074	(0.989)	60664	22.7007	23	7416
$ 8	bis-(2-Chloroethyl)ether-d8	67	8.336	8.330	(0.911)	39286	24.1767	24	8937
$ 9	2-Chlorophenol-d4	132	8.573	8.584	(0.937)	47582	23.8799	24	8992
$ 10	4-Methylphenol-d8	113	11.703	11.697	(1.279)	56842	25.5751	26	9542
$ 11	Nitrobenzene-d5	128	11.517	11.510	(0.861)	27001	24.9389	25	8504
$ 12	2-Nitrophenol-d4	143	12.498	12.492	(0.934)	31824	24.3211	24	9156
$ 13	2,4-Dichlorophenol-d3	165	13.377	13.371	(1.000)	54226	24.6621	25	7649
$ 14	4-Chloroaniline-d4	131	13.851	13.845	(1.035)	52868	17.8309	18	9279(M)
$ 15	Dimethylphthalate-d6	166	17.150	17.144	(0.982)	170924	29.3750	29	9416
$ 16	Acenaphthylene-d8	160	17.099	17.110	(0.979)	209528	25.7727	26	9406
$ 17	4-Nitrophenol-d4	143	18.385	18.396	(1.052)	28696	33.8843	34	8533
$ 18	Fluorene-d10	176	18.571	18.565	(1.063)	138298	28.5404	29	9446
$ 19	4,6-Dinitro-2-methylphenol-d2	200	19.028	19.039	(0.925)	29491	26.6559	27	7677

2

10/10/05 RH

Data File: /chem/5972hp60.i/DF051007A60.b/81085A60.d
Report Date: 10-Oct-2005 09:31

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)	SIMILARITY
$ 20 Anthracene-d10	188	20.669	20.663	(1.005)	199993	30.6511	31	9288(H)
$ 21 Pyrene-d10	212	23.257	23.251	(0.902)	225228	31.4755	31	9230
$ 22 Benzo(a)pyrene-d12	264	28.400	28.394	(1.000)	207216	30.6138	31	8385(H)
23 Benzaldehyde	77	Compound Not Detected.						
24 Phenol	94	9.097	9.142	(0.994)	130476	49.4766	49	8578
25 bis(2-Chloroethyl)ether	93	Compound Not Detected.						
26 2-Chlorophenol	128	8.641	8.651	(0.945)	91252	48.0941	48	8432
27 2-Methylphenol	108	Compound Not Detected.						
28 2,2'-oxybis(1-Chloropropane)	45	Compound Not Detected.						
30 Acetophenone	105	Compound Not Detected.						
31 4-Methylphenol	108	Compound Not Detected.						
32 N-Nitroso-di-n-propylamine	70	11.330	11.324	(1.239)	15185	12.6545	13	7224
33 Hexachloroethane	117	Compound Not Detected.						
34 Nitrobenzene	77	Compound Not Detected.						
35 Isophorone	82	Compound Not Detected.						
36 2-Nitrophenol	139	Compound Not Detected.						
37 2,4-Dimethylphenol	107	Compound Not Detected.						
38 bis(2-Chloroethoxy)methane	93	Compound Not Detected.						
39 2,4-Dichlorophenol	162	Compound Not Detected.						
40 Naphthalene	128	Compound Not Detected.						
41 4-Chloroaniline	127	Compound Not Detected.						
42 Hexachlorobutadiene	225	Compound Not Detected.						
43 Caprolactam	113	Compound Not Detected.						
4 4-Chloro-3-methylphenol	107	15.340	15.368	(1.147)	133795	58.8805	59	9242
45 2-Methylnaphthalene	142	Compound Not Detected.						
46 1,2,4,5 Tetrachlorobenzene	216	Compound Not Detected.						
47 Hexachlorocyclopentadiene	237	Compound Not Detected.						
49 2,4,6-Trichlorophenol	196	Compound Not Detected.						
50 2,4,5-Trichlorophenol	196	Compound Not Detected.						
51 1,1'-Biphenyl	154	Compound Not Detected.						
52 2-Chloronaphthalene	162	Compound Not Detected.						
53 2-Nitroaniline	65	Compound Not Detected.						
54 Dimethylphthalate	163	Compound Not Detected.						
55 2,6-Dinitrotoluene	165	Compound Not Detected.						
56 Acenaphthylene	152	Compound Not Detected.						
57 3-Nitroaniline	138	Compound Not Detected.						
58 Acenaphthene	153	17.539	17.533	(1.004)	64481	13.2527	13	8905
59 2,4-Dinitrophenol	184	Compound Not Detected.						
60 4-Nitrophenol	109	18.402	18.396	(1.053)	36379	66.7116	67	(RM)
61 Dibenzofuran	168	Compound Not Detected.						
62 2,4-Dinitrotoluene	165	18.199	18.193	(1.042)	28299	14.2914	14	8437
63 Diethylphthalate	149	Compound Not Detected.						
64 Fluorene	166	Compound Not Detected.						
65 4-Chlorophenyl-phenylether	204	Compound Not Detected.						
66 4-Nitroaniline	138	Compound Not Detected.						
67 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.						
68 N-nitrosodiphenylamine	169	Compound Not Detected.						

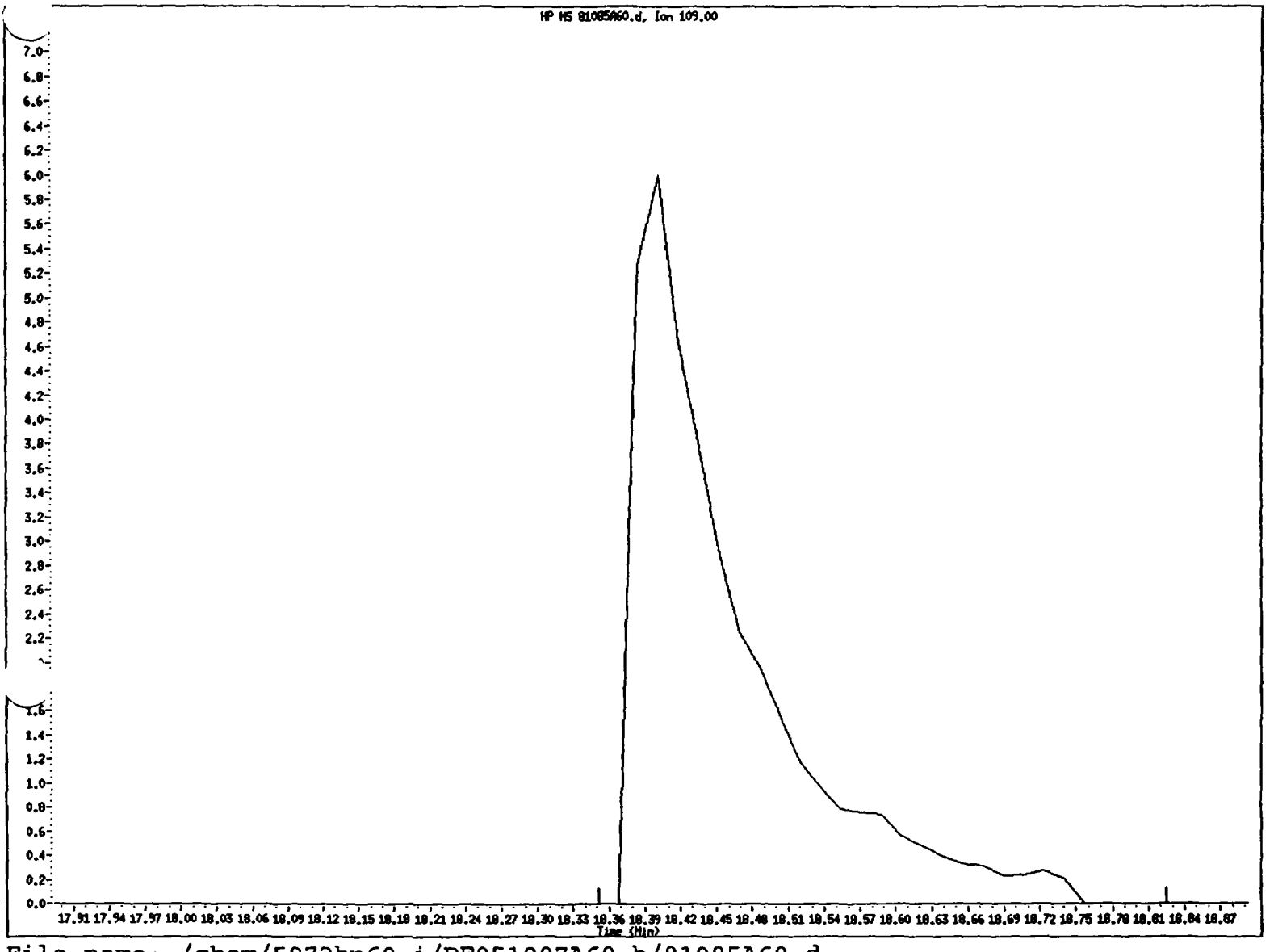
Data File: /chem/5972hp60.i/DF051007A60.b/81085A60.d
Report Date: 10-Oct-2005 09:31

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)	SIMILARITY
69 4-Bromophenyl-phenylether	248	Compound Not Detected.						
70 Hexachlorobenzene	284	Compound Not Detected.						
71 Atrazine	200	Compound Not Detected.						
72 Pentachlorophenol	266	20.466	20.477	(0.995)	57030	102.454	100	8965(AR)
73 Phenanthrene	178	Compound Not Detected.						
74 Anthracene	178	Compound Not Detected.						
75 Di-n-butylphthalate	149	Compound Not Detected.						
76 Fluoranthene	202	Compound Not Detected.						
77 Pyrene	202	23.291	23.285	(0.904)	124148	16.3388	16	
78 Butylbenzylphthalate	149	Compound Not Detected.						
79 3,3'-Dichlorobenzidine	252	Compound Not Detected.						
80 bis(2-Ethylhexyl)phthalate	149	26.133	26.144	(1.014)	65959	9.79357	9.8	9271
81 Benzo(a)anthracene	228	Compound Not Detected.						
82 Chrysene	228	Compound Not Detected.						
83 Di-n-octylphthalate	149	Compound Not Detected.						
84 Benzo(b)fluoranthene	252	Compound Not Detected.						
85 Benzo(k)fluoranthene	252	Compound Not Detected.						
86 Benzo(a)pyrene	252	Compound Not Detected.						
87 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.						
88 Dibenzo(a,h)anthracene	278	Compound Not Detected.						
89 Benzo(g,h,i)perylene	276	Compound Not Detected.						

QC Flag Legend

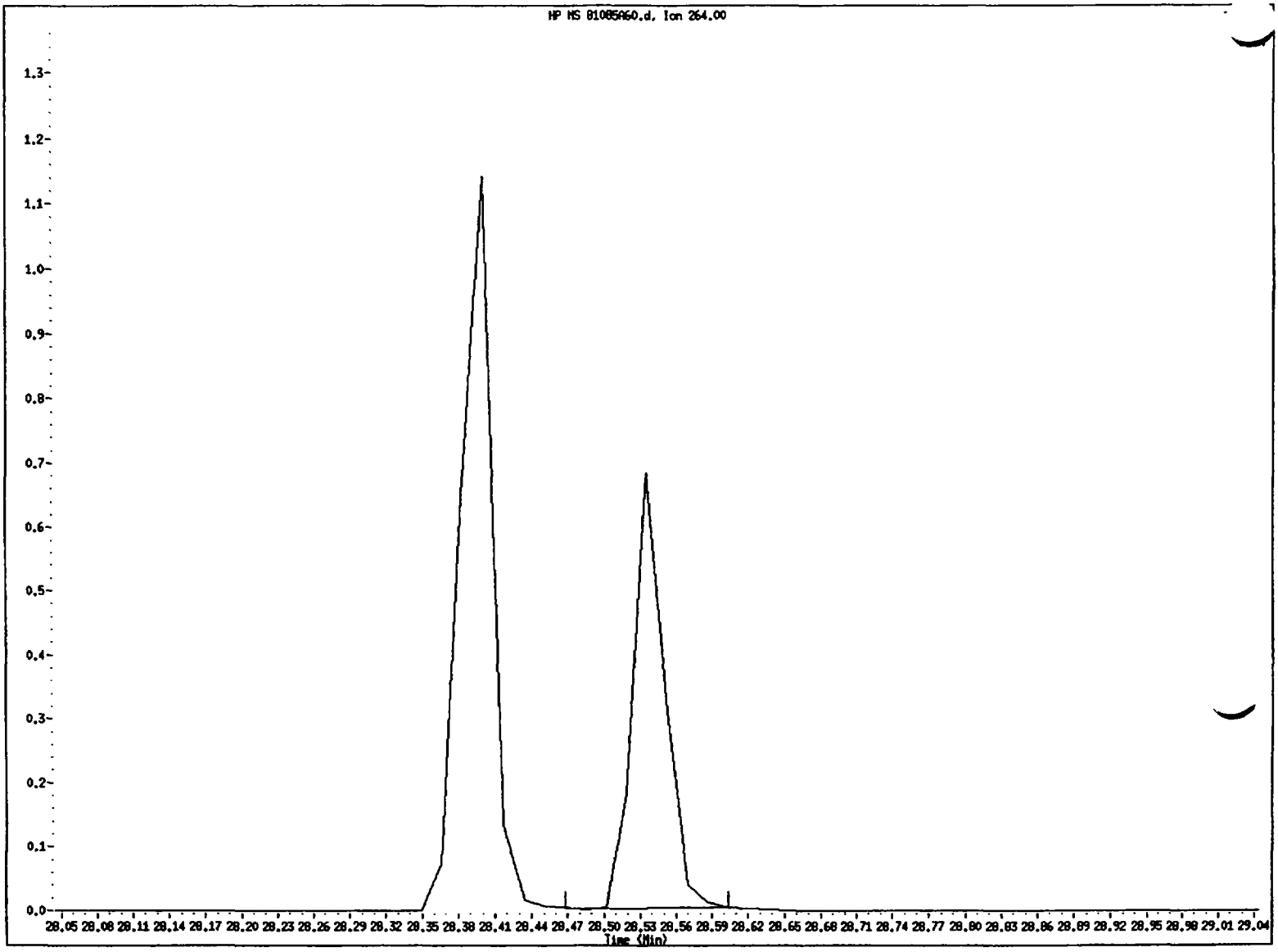
A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

4-Nitrophenol CAS Number 100-02-7 Area = 36379 Manually integrated



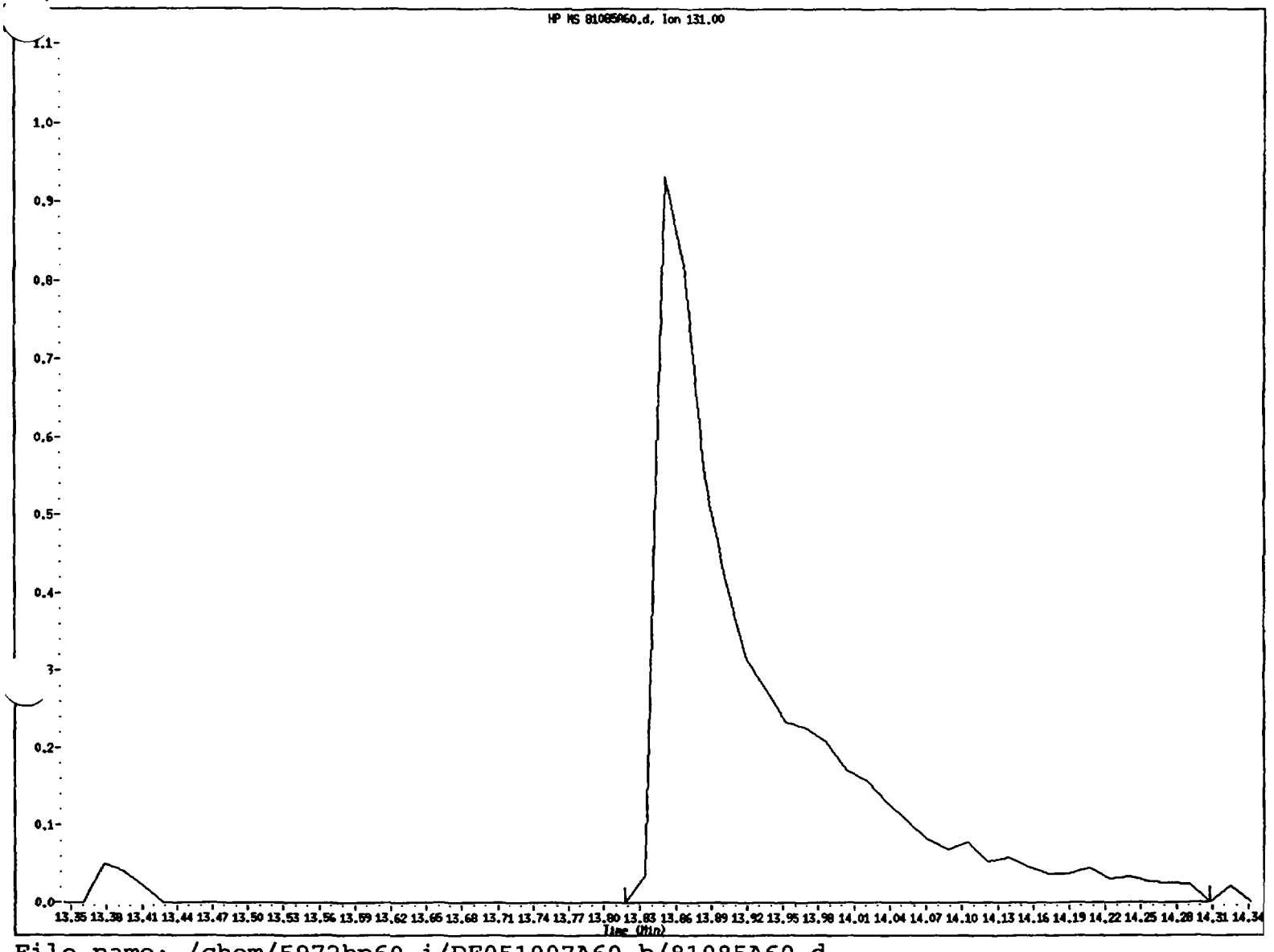
File name: /chem/5972hp60.i/DF051007A60.b/81085A60.d
Client ID: ACSGWPWB26MS
Instrument ID: 5972hp60.i
Injection Date and Time: 07-OCT-2005 09:26
Retention Time: 18.40
Operator ID: 917

Perylene-d12 CAS Number 1520-96-3 Area = 123431 User selected hit



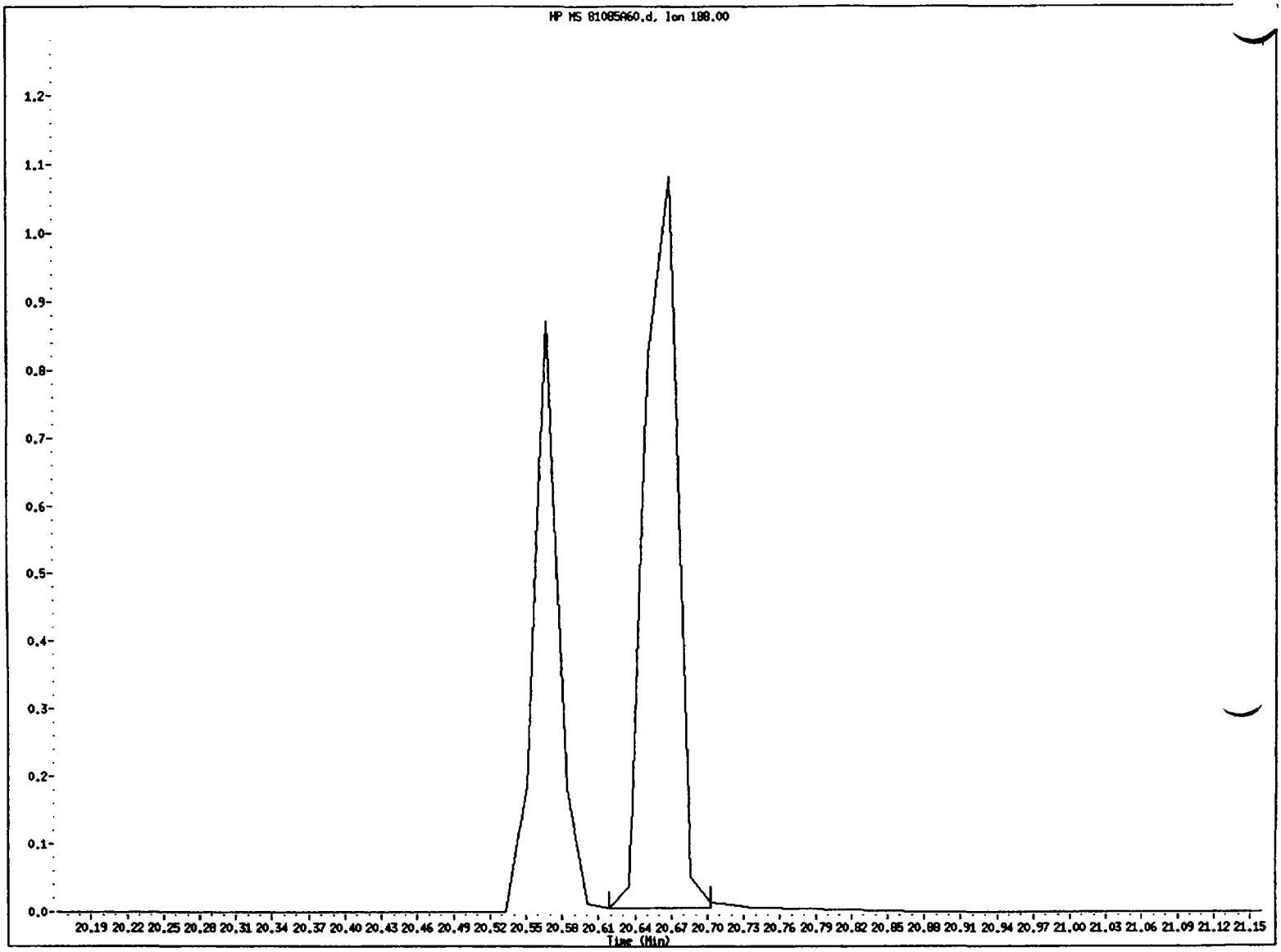
File name: /chem/5972hp60.i/DF051007A60.b/81085A60.d
Client ID: ACSGWPWB26MS
Instrument ID: 5972hp60.i
Injection Date and Time: 07-OCT-2005 09:26
Retention Time: 28.54
Operator ID: 917

4-Chloroaniline-d4 CAS Number 191656-33-4 Area = 52868 Manually integrated



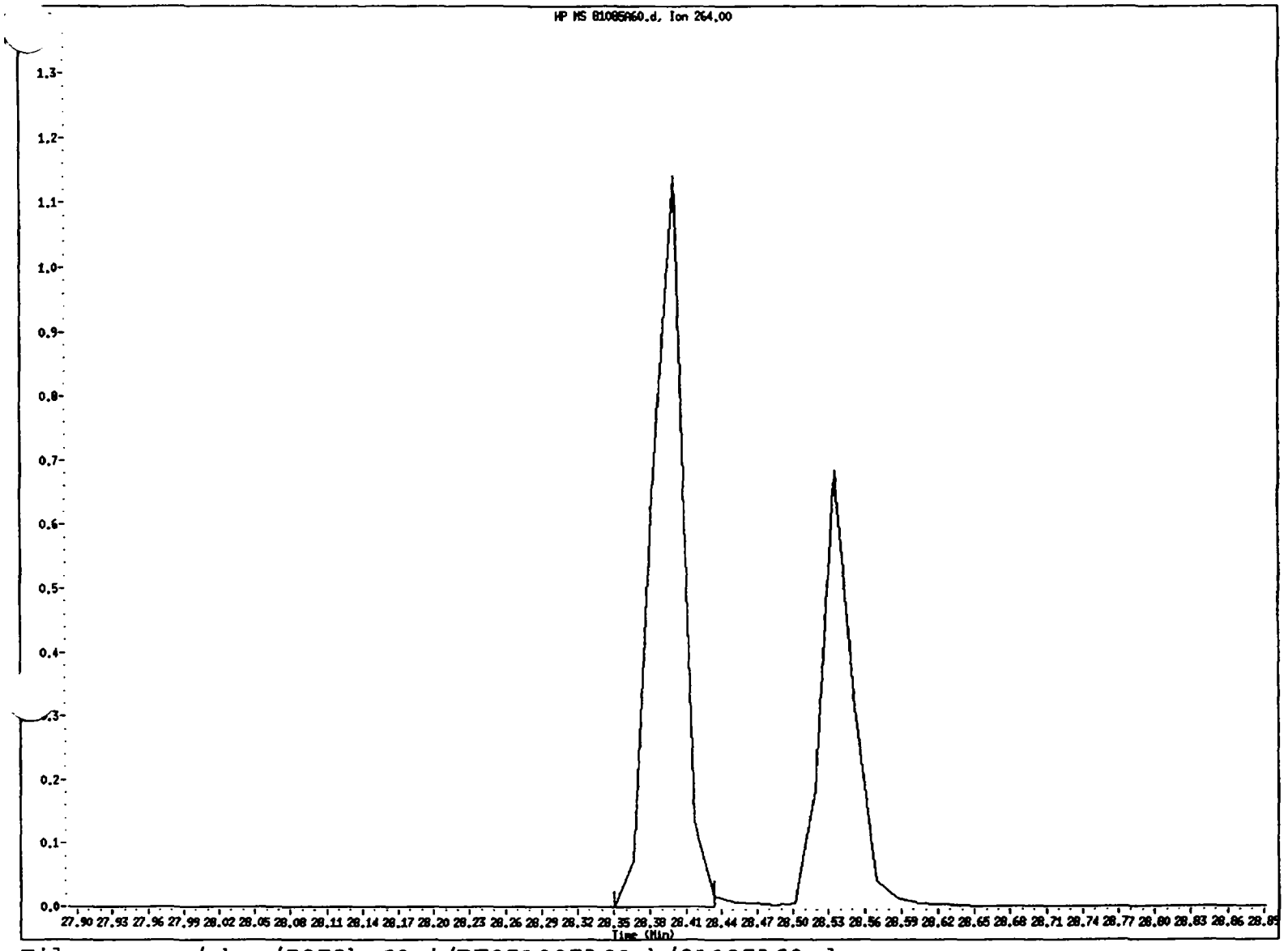
File name: /chem/5972hp60.i/DF051007A60.b/81085A60.d
Client ID: ACSGWPWB26MS
Instrument ID: 5972hp60.i
Injection Date and Time: 07-OCT-2005 09:26
Retention Time: 13.85
Operator ID: 917

Anthracene-d10 CAS Number 1719-06-8 Area = 199993 User selected hit



File name: /chem/5972hp60.i/DF051007A60.b/81085A60.d
Client ID: ACSGWPWB26MS
Instrument ID: 5972hp60.i
Injection Date and Time: 07-OCT-2005 09:26
Retention Time: 20.67
Operator ID: 917

Benzo(a)pyrene-d12 CAS Number 63466-71-7 Area = 207216 User selected hit



File name: /chem/5972hp60.i/DF051007A60.b/81085A60.d
Client ID: ACSGWPWB26MS
Instrument ID: 5972hp60.i
Injection Date and Time: 07-OCT-2005 09:26
Retention Time: 28.40
Operator ID: 917

d. Matrix Spike Duplicate Data

- Tabulated Results (Form I LCSV-1, LCSV-2)
  (LCSV-TIC not required)

- Reconstructed Ion Chromatogram and quantitation report. Spectra not needed.

1LCC
LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

ACSGWPWB26MSD

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 81086 Date Received: 09/27/2005

Lab File ID: 81086A60 Date Extracted: 09/27/2005

Sample Volume: 1000(ML) Date Analyzed: 10/07/2005

Concentrated Extract Volume: 1000(UL) Dilution Factor: 1.0

Injection Volume: 1.0(UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
100-52-7	Benzaldehyde	5.0	U
108-95-2	Phenol	48	
111-44-4	bis(2-Chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	47	
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5.0	U
98-86-2	Acetophenone	5.0	U
106-44-5	4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	11	
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	bis(2-Chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0	U
106-47-8	4-Chloroaniline	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	5.0	U
59-50-7	4-Chloro-3-methylphenol	56	
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	U
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	20	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	13	

1LCD
LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

ACSGWPWB26MSD

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 81086 Date Received: 09/27/2005

Lab File ID: 81086A60 Date Extracted: 09/27/2005

Sample Volume: 1000(ML) Date Analyzed: 10/07/2005

Concentrated Extract Volume: 1000(UL) Dilution Factor: 1.0

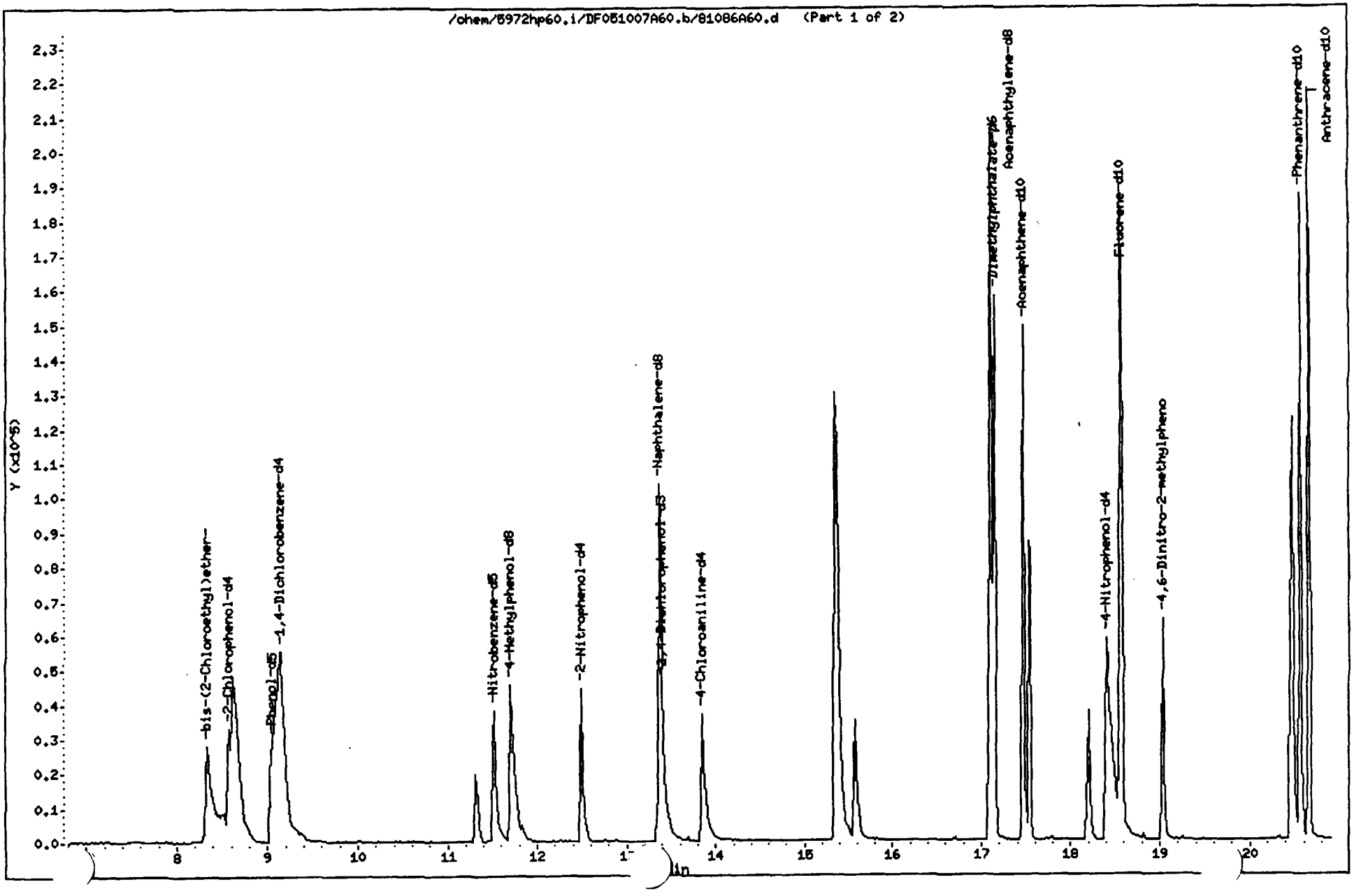
Injection Volume: 1.0(UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	59	
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	14	
84-66-2	Diethylphthalate	5.0	U
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-nitrosodiphenylamine (1)	5.0	U
95-94-3	1,2,4,5 Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	90	E
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
84-74-2	Di-n-butylphthalate	5.0	U
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	16	
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo(a)anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	B
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo(b)fluoranthene	5.0	U
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U
53-70-3	Dibenzo(a,h)anthracene	5.0	U
191-24-2	Benzo(g,h,i)perylene	5.0	U

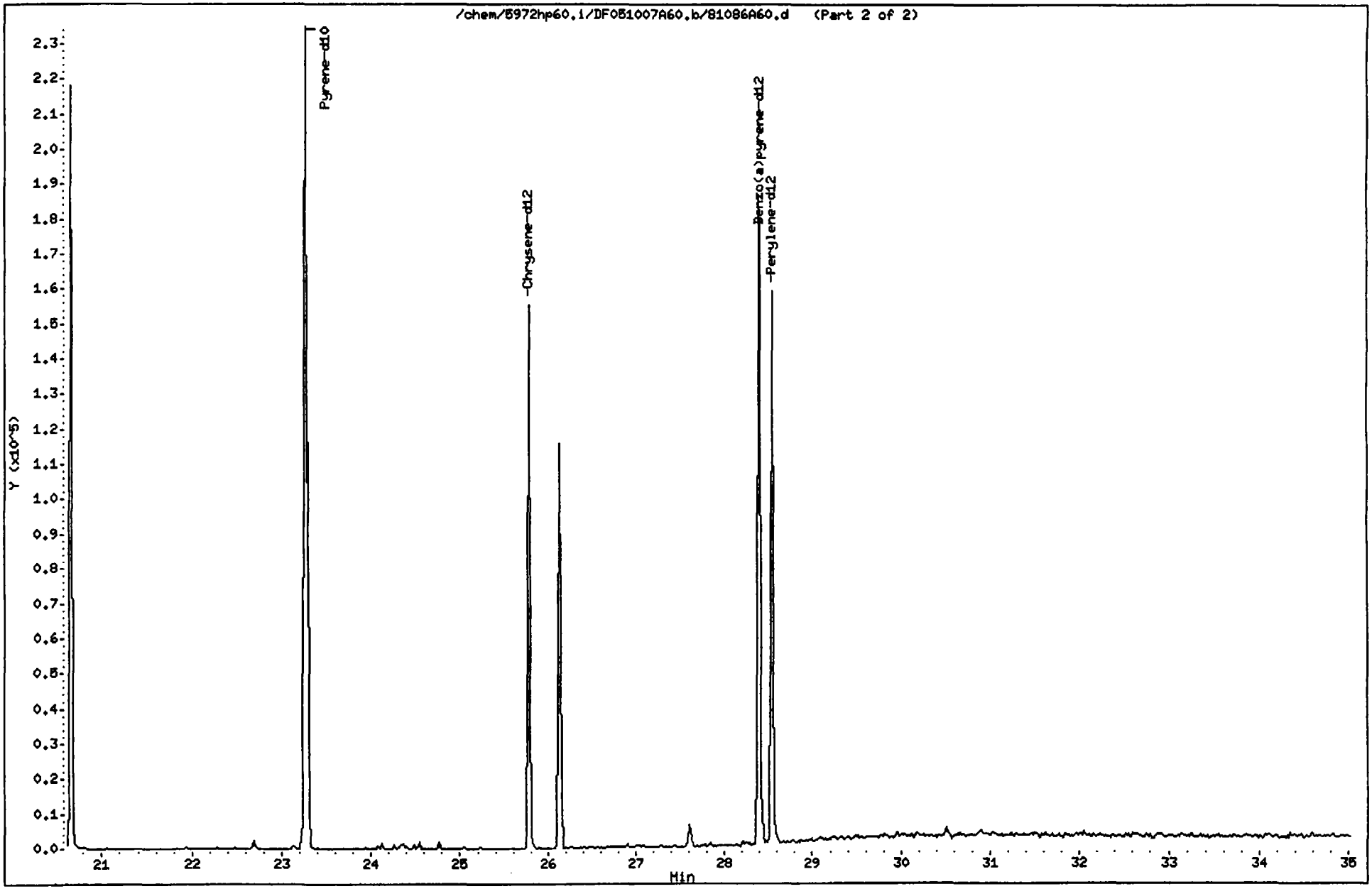
(1) - Cannot be separated from Diphenylamine

Data File: /chem/5972hp60.i/DF051007A60.b/81086A60.d
Date : 07-OCT-2005 10:12
Client ID: ACSGWPWB26MSD
Sample Info:
Volume Injected (uL): 1.0
Column phase: RTX-5MS

Instrument: 5972hp60.i
Operator: 917
Column diameter: 0.32



Data File: /chem/5972hp60.i/DF051007A60.b/81086A60.d
Date : 07-OCT-2005 10:12
Client ID: ACSGWPWB26HSD
Instrument: 5972hp60.i
Sample Info:
Volume Injected (uL): 1.0
Operator: 917
Column phase: RTX-5HS
Column diameter: 0.32



Data File: /chem/5972hp60.i/DF051007A60.b/81086A60.d
Report Date: 10-Oct-2005 09:31

CompuChem

OLC03.0 + REVISIONS QUANT AND RATIO REPORT

Data file : /chem/5972hp60.i/DF051007A60.b/81086A60.d
Lab Smp Id: 81086 Client Smp ID: ACSGWPWB26MSD
Inj Date : 07-OCT-2005 10:12
Operator : 917 Inst ID: 5972hp60.i
Smp Info :
Misc Info :
Comment :
Method : /chem/5972hp60.i/DF051007A60.b/OLC03v5.m
Meth Date : 10-Oct-2005 08:59 henning Quant Type: ISTD
Cal Date : 07-OCT-2005 08:40 Cal File: HG051007A60.d
Als bottle: 4 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: OLC03.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/(Vo * Vi) * CpndVariable

Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)	SIMILARITY
* 1 1,4-Dichlorobenzene-d4	152	9.148	9.142	(1.000)	23202	20.0000		
* 2 Naphthalene-d8	136	13.360	13.371	(1.000)	96718	20.0000		8708
* 3 Acenaphthene-d10	164	17.471	17.465	(1.000)	62981	20.0000		7631
* 4 Phenanthrene-d10	188	20.567	20.578	(1.000)	107019	20.0000		8869
* 5 Chrysene-d12	240	25.778	25.789	(1.000)	90742	20.0000		8333
* 6 Perylene-d12	264	28.536	28.547	(1.000)	98151	20.0000		8308(H)
$ 7 Phenol-d5	99	9.046	9.074	(0.989)	47375	22.0892	22	0(M)
$ 8 bis-(2-Chloroethyl)ether-d8	67	8.336	8.330	(0.911)	30690	23.5331	24	9029
$ 9 2-Chlorophenol-d4	132	8.573	8.584	(0.937)	36913	23.0830	23	8673
$ 10 4-Methylphenol-d8	113	11.703	11.697	(1.279)	42939	24.0726	24	9464
$ 11 Nitrobenzene-d5	128	11.516	11.510	(0.862)	19729	22.4612	22	8604
$ 12 2-Nitrophenol-d4	143	12.498	12.492	(0.935)	23803	22.4228	22	9004
$ 13 2,4-Dichlorophenol-d3	165	13.394	13.371	(1.003)	41707	23.3810	23	7426
$ 14 4-Chloroaniline-d4	131	13.851	13.845	(1.037)	40907	17.0063	17	9011
$ 15 Dimethylphthalate-d6	166	17.150	17.144	(0.982)	132122	28.3751	28	9275
$ 16 Acenaphthylene-d8	160	17.099	17.110	(0.979)	160236	24.6301	25	9393
$ 17 4-Nitrophenol-d4	143	18.402	18.396	(1.053)	20222	29.8393	30	8011
$ 18 Fluorene-d10	176	18.571	18.565	(1.063)	104551	26.9625	27	9394
$ 19 4,6-Dinitro-2-methylphenol-d2	200	19.028	19.039	(0.925)	20397	21.9715	22	7697

10/10/05 DH

Data File: /chem/5972hp60.i/DF051007A60.b/81086A60.d
Report Date: 10-Oct-2005 09:31

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)	SIMILARITY
$ 20 Anthracene-d10	188	20.652	20.663	(1.004)	146178	26.6995	27	9272(H)
$ 21 Pyrene-d10	212	23.257	23.251	(0.902)	174831	31.0634	31	9286
$ 22 Benzo(a)pyrene-d12	264	28.400	28.394	(1.000)	151652	28.1755	28	8269(H)
23 Benzaldehyde	77	Compound Not Detected.						
24 Phenol	94	9.097	9.142	(0.994)	100931	47.6888	48	8700
25 bis(2-Chloroethyl)ether	93	Compound Not Detected.						
26 2-Chlorophenol	128	8.623	8.651	(0.943)	71920	47.2304	47	8659
27 2-Methylphenol	108	Compound Not Detected.						
28 2,2'-oxybis(1-Chloropropane)	45	Compound Not Detected.						
30 Acetophenone	105	Compound Not Detected.						
31 4-Methylphenol	108	Compound Not Detected.						
32 N-Nitroso-di-n-propylamine	70	11.313	11.324	(1.237)	10746	11.1584	11	7254
33 Hexachloroethane	117	Compound Not Detected.						
34 Nitrobenzene	77	Compound Not Detected.						
35 Isophorone	82	Compound Not Detected.						
36 2-Nitrophenol	139	Compound Not Detected.						
37 2,4-Dimethylphenol	107	Compound Not Detected.						
38 bis(2-Chloroethoxy)methane	93	Compound Not Detected.						
39 2,4-Dichlorophenol	162	Compound Not Detected.						
40 Naphthalene	128	Compound Not Detected.						
41 4-Chloroaniline	127	Compound Not Detected.						
42 Hexachlorobutadiene	225	Compound Not Detected.						
43 Caprolactam	113	Compound Not Detected.						
44 4-Chloro-3-methylphenol	107	15.340	15.368	(1.148)	103969	56.3983	56	9316
45 2-Methylnaphthalene	142	Compound Not Detected.						
46 1,2,4,5 Tetrachlorobenzene	216	Compound Not Detected.						
47 Hexachlorocyclopentadiene	237	Compound Not Detected.						
49 2,4,6-Trichlorophenol	196	Compound Not Detected.						
50 2,4,5-Trichlorophenol	196	Compound Not Detected.						
51 1,1'-Biphenyl	154	Compound Not Detected.						
52 2-Chloronaphthalene	162	Compound Not Detected.						
53 2-Nitroaniline	65	Compound Not Detected.						
54 Dimethylphthalate	163	Compound Not Detected.						
55 2,6-Dinitrotoluene	165	Compound Not Detected.						
56 Acenaphthylene	152	Compound Not Detected.						
57 3-Nitroaniline	138	Compound Not Detected.						
58 Acenaphthene	153	17.539	17.533	(1.004)	49293	12.6604	13	8882
59 2,4-Dinitrophenol	184	Compound Not Detected.						
60 4-Nitrophenol	109	18.419	18.396	(1.054)	25872	59.2881	59	(M) 2
61 Dibenzofuran	168	Compound Not Detected.						
62 2,4-Dinitrotoluene	165	18.199	18.193	(1.042)	21525	13.5842	14	8396
63 Diethylphthalate	149	Compound Not Detected.						
64 Fluorene	166	Compound Not Detected.						
65 4-Chlorophenyl-phenylether	204	Compound Not Detected.						
66 4-Nitroaniline	138	Compound Not Detected.						
67 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.						
68 N-nitrosodiphenylamine	169	Compound Not Detected.						

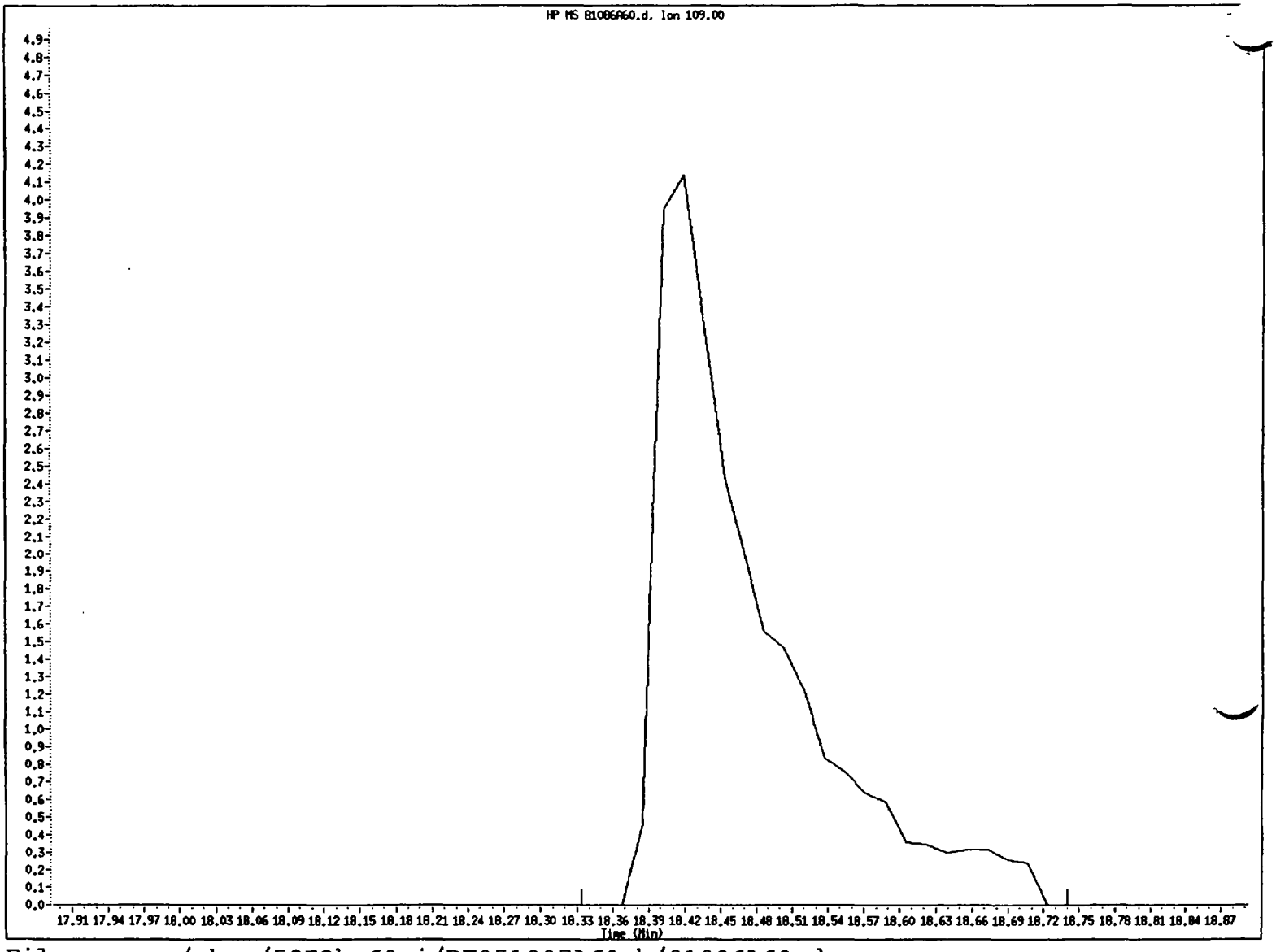
Data File: /chem/5972hp60.i/DF051007A60.b/81086A60.d
Report Date: 10-Oct-2005 09:31

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)	SIMILARITY
69 4-Bromophenyl-phenylether	248	Compound Not Detected.						
70 Hexachlorobenzene	284	Compound Not Detected.						
71 Atrazine	200	Compound Not Detected.						
72 Pentachlorophenol	266	20.466	20.477	(0.995)	41874	89.6514	90	8982(AR)
73 Phenanthrene	178	Compound Not Detected.						
74 Anthracene	178	Compound Not Detected.						
75 Di-n-butylphthalate	149	Compound Not Detected.						
76 Fluoranthene	202	Compound Not Detected.						
77 Pyrene	202	23.291	23.285	(0.904)	94299	15.7786	16	
78 Butylbenzylphthalate	149	Compound Not Detected.						
79 3,3'-Dichlorobenzidine	252	Compound Not Detected.						
80 bis(2-Ethylhexyl)phthalate	149	26.133	26.144	(1.014)	54064	10.2060	10	9293
81 Benzo(a)anthracene	228	Compound Not Detected.						
82 Chrysene	228	Compound Not Detected.						
83 Di-n-octylphthalate	149	Compound Not Detected.						
84 Benzo(b)fluoranthene	252	Compound Not Detected.						
85 Benzo(k)fluoranthene	252	Compound Not Detected.						
86 Benzo(a)pyrene	252	Compound Not Detected.						
87 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.						
88 Dibenzo(a,h)anthracene	278	Compound Not Detected.						
89 Benzo(g,h,i)perylene	276	Compound Not Detected.						

Flag Legend

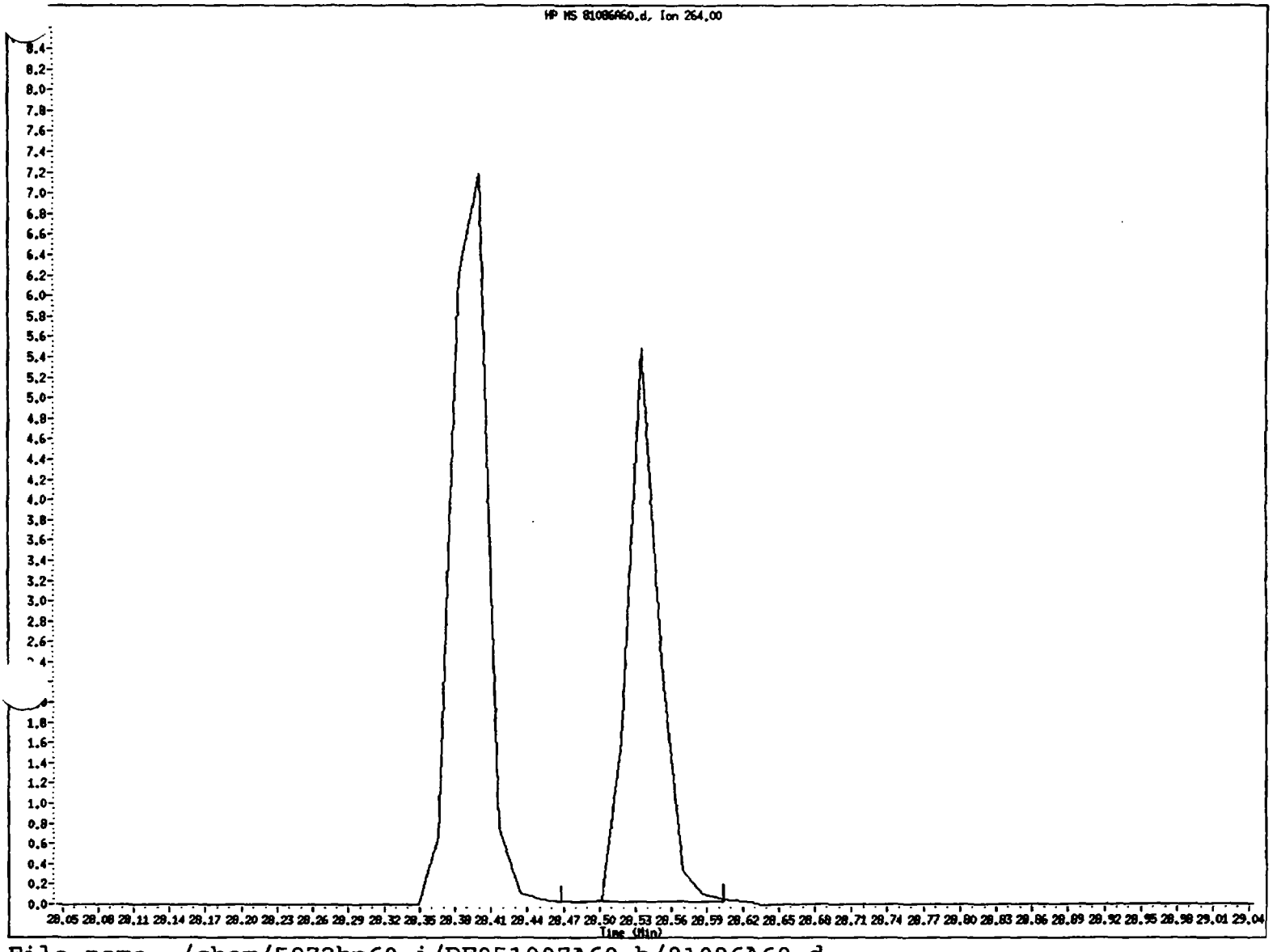
A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

4-Nitrophenol CAS Number 100-02-7 Area = 25872 Manually integrated



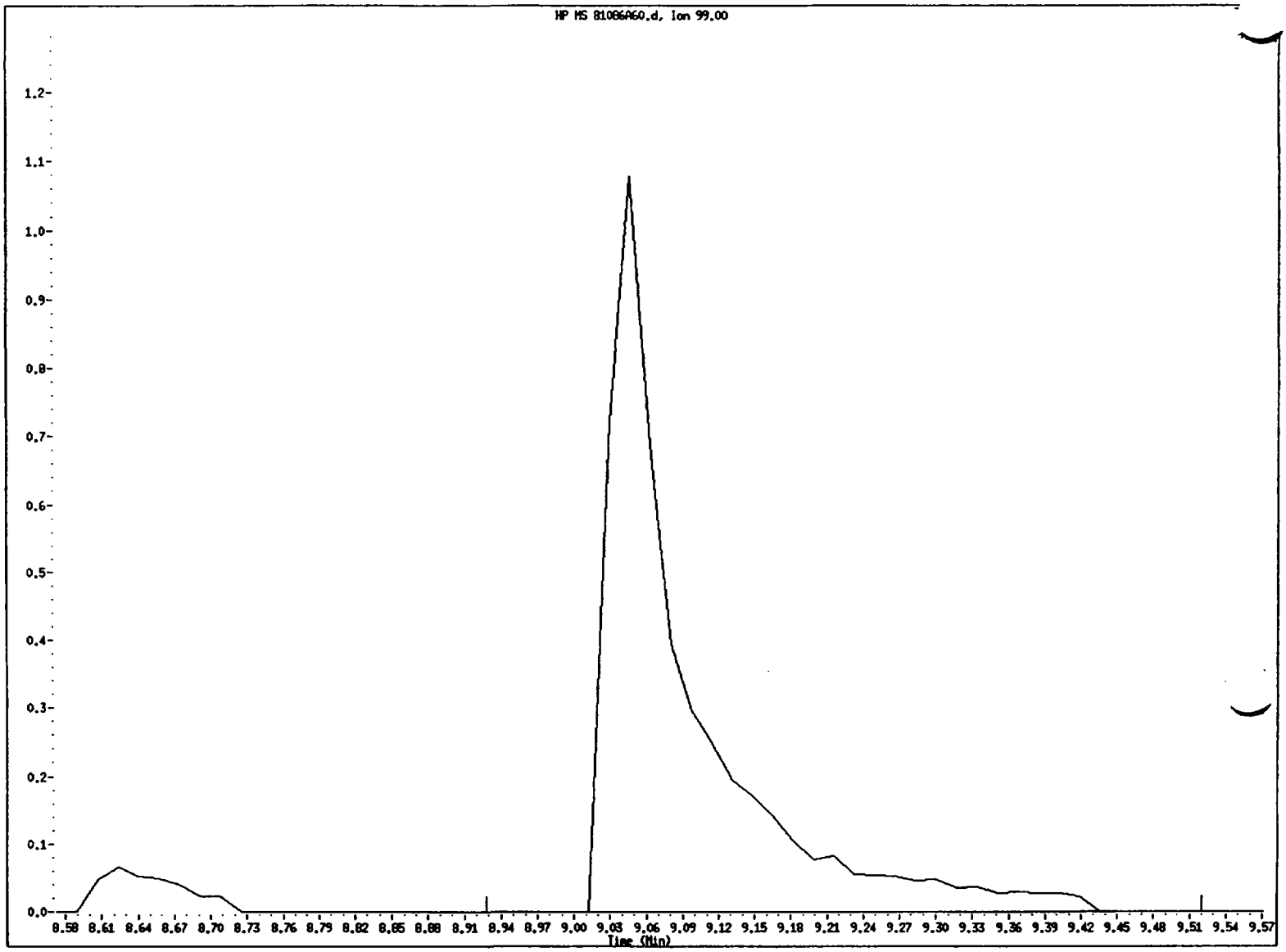
File name: /chem/5972hp60.i/DF051007A60.b/81086A60.d
Client ID: ACSGWPWB26MSD
Instrument ID: 5972hp60.i
Injection Date and Time: 07-OCT-2005 10:12
Retention Time: 18.42
Operator ID: 917

Perylene-d12 CAS Number 1520-96-3 Area = 98151 User selected hit



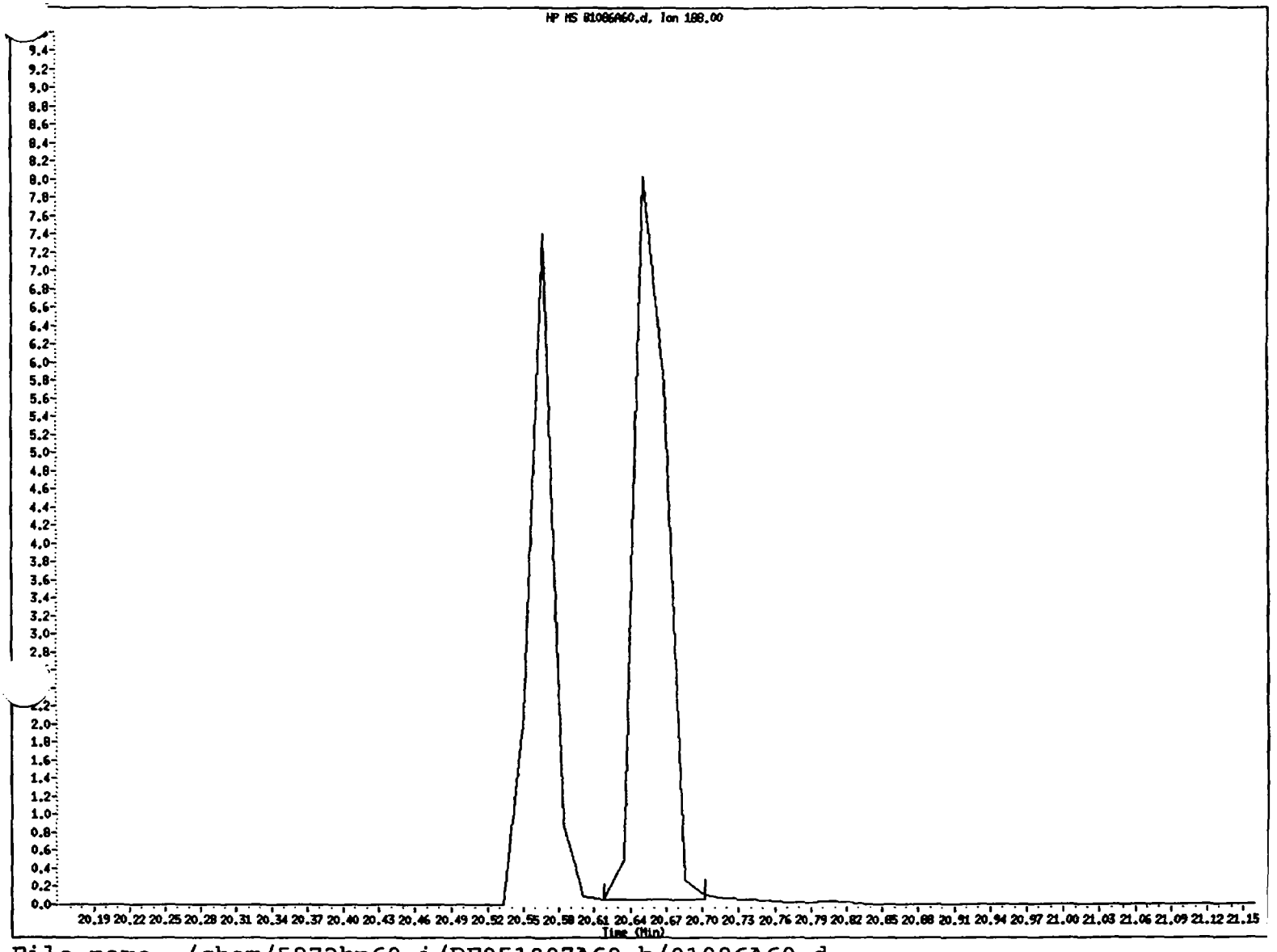
File name: /chem/5972hp60.i/DF051007A60.b/81086A60.d
Client ID: ACSGWPWB26MSD
Instrument ID: 5972hp60.i
Injection Date and Time: 07-OCT-2005 10:12
Retention Time: 28.54
Operator ID: 917

Phenol-d5 CAS Number 4165-62-2 Area = 47375 Manually integrated



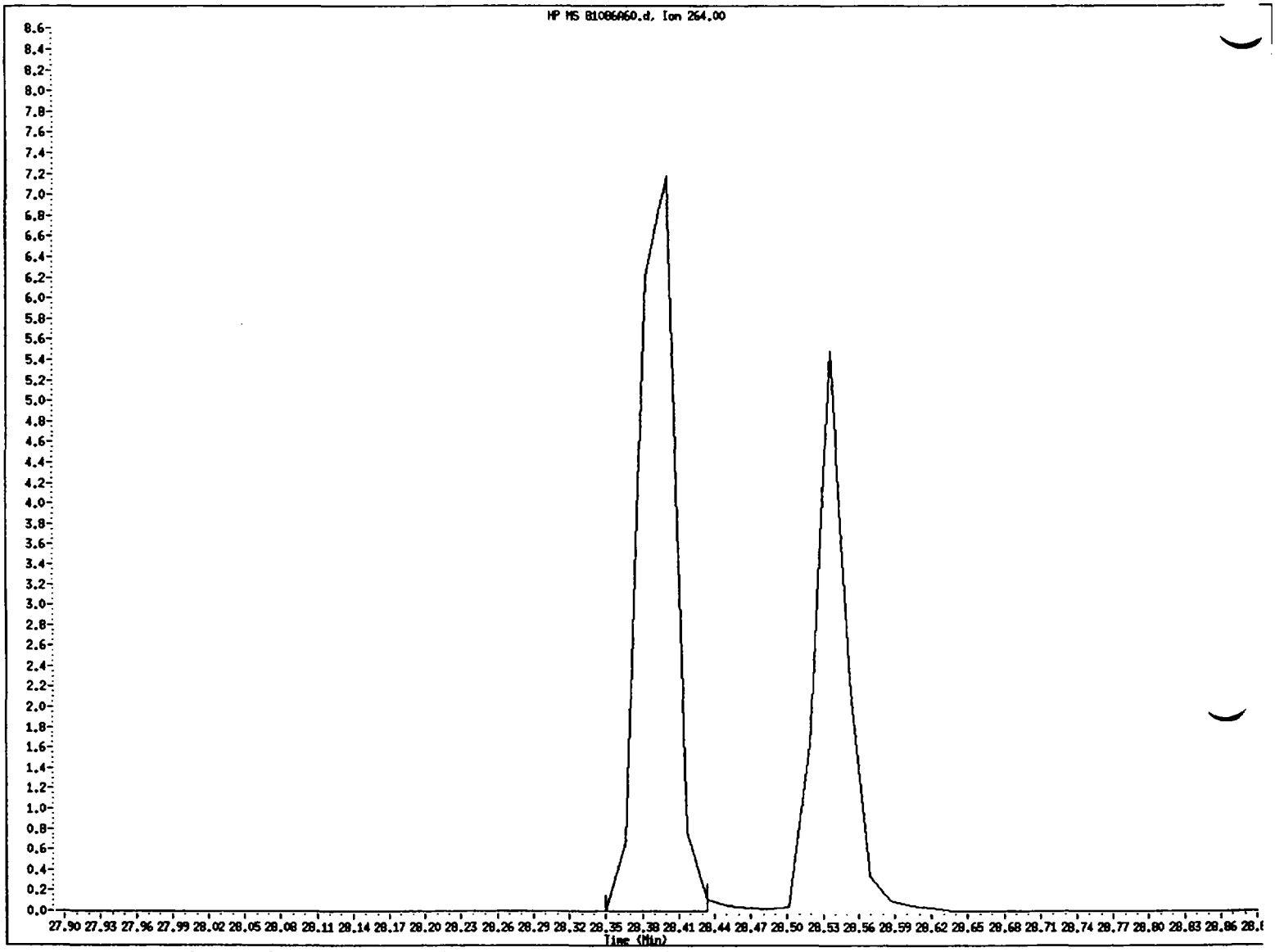
File name: /chem/5972hp60.i/DF051007A60.b/81086A60.d
Client ID: ACSGWPWB26MSD
Instrument ID: 5972hp60.i
Injection Date and Time: 07-OCT-2005 10:12
Retention Time: 9.05
Operator ID: 917

Anthracene-d10 CAS Number 1719-06-8 Area = 146178 User selected hit



File name: /chem/5972hp60.i/DF051007A60.b/81086A60.d
Client ID: ACSGWPWB26MSD
Instrument ID: 5972hp60.i
Injection Date and Time: 07-OCT-2005 10:12
Retention Time: 20.65
Operator ID: 917

Benzo(a)pyrene-d12 CAS Number 63466-71-7 Area = 151652 User selected hit



File name: /chem/5972hp60.i/DF051007A60.b/81086A60.d
Client ID: ACSGWPWB26MSD
Instrument ID: 5972hp60.i
Injection Date and Time: 07-OCT-2005 10:12
Retention Time: 28.40
Operator ID: 917

ACS-89
Data Validation Reports
LDC# 14146

Semivolatiles

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: ACS-89

Collection Date: September 23 through September 26, 2005

LDC Report Date: October 27, 2005

Matrix: Water

Parameters: Semivolatiles

Validation Level: EPA Level IV

Laboratory: CompuChem

Sample Delivery Group (SDG): 7829

Sample Identification

ACSGWPWA26
ACSGWPWDUP26
ACSGWPWB26
ACSGWPWT26
ACSGWPWC26
ACSGWPWD26
ACSGWPWB26MS
ACSGWPWB26MSD

Introduction

This data review covers 8 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA Contract Laboratory Program Statement of Work OLC03.2 for Semivolatiles.

The review follows the Remedial Design/Remedial Action PRP - Lead Project Quality Assurance Project Plan (November 2001, Rev. 0) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) as there are no current guidelines for the method stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified a P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section V.

Field duplicates are summarized in Section XVI.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

B Compound or analyte was positively detected in a sample and in an associated blank.

UB Compound or analyte is not detected at or above the indicated concentration due to blank contamination.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals.

All ion abundance requirements were met.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 30.0% for all compounds with the following exceptions:

Date	Compound	%RSD	Associated Samples	Flag	A or P
3/10/05	Hexachlorocyclopentadiene 2,4-Dinitrophenol Pentachlorophenol	39.0 48.8 30.8	All samples in SDG 7829	J (all detects) UJ (all non-detects)	A

Average relative response factors (RRF) for all semivolatile target compounds and system monitoring compounds were greater than or equal to 0.05 as required.

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

All of the continuing calibration percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were less than or equal to 25.0% with the following exceptions:

Date	Compound	%D	Associated Samples	Flag	A or P
10/6/05	Hexachlorobutadiene 4-Nitrophenol Di-n-octylphthalate Benzo(b)fluoranthene	29.7 26.9 26.8 27.2	ACSGWPWA26 ACSGWPWDUP26 ACSGWPWB26 ACSGWPWT26 SBLKNX	J (all detects) UJ (all non-detects)	A

Date	Compound	%D	Associated Samples	Flag	A or P
10/7/05	Hexachlorobutadiene Caprolactam 4-Nitrophenol Di-n-octylphthalate	26.2 26.2 33.7 30.7	ACSGWPWC26 ACSGWPWD26 ACSGWPWB26MS ACSGWPWB26MSD	J (all detects) UJ (all non-detects)	A

All of the continuing calibration RRF values were greater than or equal to 0.05 .

V. Blanks

Method blanks were reviewed for each matrix as applicable. No semivolatile contaminants were found in the method blanks with the following exceptions:

Method Blank ID	Extraction Date	Compound TIC (RT in minutes)	Concentration	Associated Samples
SBLKNX	9/27/05	Bis(2-ethylhexyl)phthalate Unknown (28.48)	14 ug/L 2.2 ug/L	All samples in SDG 7829

Sample concentrations were compared to concentrations detected in the method blanks. The sample concentrations were either not detected or were significantly greater (>10X for common contaminants, >5X for other contaminants) than the concentrations found in the associated method blanks with the following exceptions:

Sample	Compound TIC (RT in minutes)	Reported Concentration	Modified Final Concentration
ACSGWPWB26	Bis(2-ethylhexyl)phthalate	4.8 ug/L	5.0UB ug/L
ACSGWPWC26	Bis(2-ethylhexyl)phthalate	5.8 ug/L	5.8UB ug/L
ACSGWPWD26	Bis(2-ethylhexyl)phthalate	12 ug/L	12UB ug/L
ACSGWPWT26	Bis(2-ethylhexyl)phthalate	18 ug/L	18UB ug/L

No field blanks were identified in this SDG.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the SOW. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Compound	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)	Flag	A or P
ACSGWPWB26MS/MSD (ACSGWPWB26)	4-Nitrophenol Pentachlorophenol	84 (10-80) -	- 113 (9-103)	- -	J (all detects) J (all detects)	A

VIII. Laboratory Control Samples (LCS)

Laboratory control samples are not required and were not performed.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

All target compound identifications were within validation criteria.

XII. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

XIII. Tentatively Identified Compounds (TICs)

All tentatively identified compounds were within validation criteria.

XIV. System Performance

The system performance was acceptable.

XV. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XVI. Field Duplicates

Samples ACSGWPWA26 and ACSGWPWDUP26 were identified as field duplicates. No semivolatiles were detected in any of the samples.

ACS-89
Semivolatiles - Data Qualification Summary - SDG 7829

SDG	Sample	Compound	Flag	A or P	Reason
7829	ACSGWPWA26 ACSGWPWDUP26 ACSGWPWB26 ACSGWPWT26 ACSGWPWC26 ACSGWPWD26	Hexachlorocyclopentadiene 2,4-Dinitrophenol Pentachlorophenol	J (all detects) UJ (all non-detects)	A	Initial calibration (%RSD)
7829	ACSGWPWA26 ACSGWPWDUP26 ACSGWPWB26 ACSGWPWT26	Hexachlorobutadiene 4-Nitrophenol Di-n-octylphthalate Benzo(b)fluoranthene	J (all detects) UJ (all non-detects)	A	Continuing calibration (%D)
7829	ACSGWPWC26 ACSGWPWD26	Hexachlorobutadiene Caprolactam 4-Nitrophenol Di-n-octylphthalate	J (all detects) UJ (all non-detects)	A	Continuing calibration (%D)
7829	ACSGWPWB26	4-Nitrophenol Pentachlorophenol	J (all detects) J (all detects)	A	Matrix spike/Matrix spike duplicates (%R)

ACS-89
Semivolatiles - Laboratory Blank Data Qualification Summary - SDG 7829

SDG	Sample	Compound TIC (RT in minutes)	Modified Final Concentration	A or P
7829	ACSGWPWB26	Bis(2-ethylhexyl)phthalate	5.0UB ug/L	A
7829	ACSGWPWC26	Bis(2-ethylhexyl)phthalate	5.8UB ug/L	A
7829	ACSGWPWD26	Bis(2-ethylhexyl)phthalate	12UB ug/L	A
7829	ACSGWPWT26	Bis(2-ethylhexyl)phthalate	18UB ug/L	A

ACS-89
Semivolatiles - Field Blank Data Qualification Summary - SDG 7829

No Sample Data Qualified in this SDG

1LCC
LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

ACSGWPWA26

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 782901 Date Received: 09/26/2005

Lab File ID: 782901A60 Date Extracted: 09/27/2005

Sample Volume: 1000(ML) Date Analyzed: 10/06/2005

Concentrated Extract Volume: 1000(UL) Dilution Factor: 1.0

Injection Volume: 1.0(UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
100-52-7	Benzaldehyde	5.0	U
108-95-2	Phenol	5.0	U
111-44-4	bis(2-Chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	5.0	U
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5.0	U
98-86-2	Acetophenone	5.0	U
106-44-5	4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	5.0	U
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	bis(2-Chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0	U
106-47-8	4-Chloroaniline	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U UJ
105-60-2	Caprolactam	5.0	U
59-50-7	4-Chloro-3-methylphenol	5.0	U
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	U UJ
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	20	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5.0	U

FORM I LCSV-1 OLC03.2

11/16/05

1LCD
LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

ACSGWPWA26

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 782901 Date Received: 09/26/2005

Lab File ID: 782901A60 Date Extracted: 09/27/2005

Sample Volume: 1000(ML) Date Analyzed: 10/06/2005

Concentrated Extract Volume: 1000(UL) Dilution Factor: 1.0

Injection Volume: 1.0(UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
51-28-5	2,4-Dinitrophenol	20	U UJ
100-02-7	4-Nitrophenol	20	U ↓
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	5.0	U
84-66-2	Diethylphthalate	5.0	U
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-nitrosodiphenylamine (1)	5.0	U
95-94-3	1,2,4,5 Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	5.0	U UJ
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
84-74-2	Di-n-butylphthalate	5.0	U
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	5.0	U
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo(a)anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	bis(2-Ethylhexyl)phthalate	5.0	U
117-84-0	Di-n-octylphthalate	5.0	U UJ
205-99-2	Benzo(b)fluoranthene	5.0	U ↓
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U
53-70-3	Dibenzo(a,h)anthracene	5.0	U
191-24-2	Benzo(g,h,i)perylene	5.0	U

(1) - Cannot be separated from Diphenylamine

MM 10/31/05

1LCG

LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ACSGWPWA26

Lab Name: TOXPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 782901 Date Received: 09/26/2005

Lab File ID: 782901A60 Date Extracted: 09/27/2005

Sample Volume: 1000(ML) Date Analyzed: 10/06/2005

Concentrated Extract Volume: 1000(UL) Dilution Factor: 1.0

Injection Volume: 1.0(UL)

Number TICs found: 0

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

11/03/05

1LCC
LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

ACSGWPWB26

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 782903 Date Received: 09/27/2005

Lab File ID: 782903A60 Date Extracted: 09/27/2005

Sample Volume: 1100(ML) Date Analyzed: 10/06/2005

Concentrated Extract Volume: 1000(UL) Dilution Factor: 1.0

Injection Volume: 1.0(UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
100-52-7	Benzaldehyde	5.0	U
108-95-2	Phenol	5.0	U
111-44-4	bis(2-Chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	5.0	U
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5.0	U
98-86-2	Acetophenone	5.0	U
106-44-5	4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	5.0	U
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	bis(2-Chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0	U
106-47-8	4-Chloroaniline	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U UJ
105-60-2	Caprolactam	5.0	U
59-50-7	4-Chloro-3-methylphenol	5.0	U
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	U UJ
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	20	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5.0	U

LM 10/31/05

1LCD
LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

ACSGWPWB26

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 782903 Date Received: 09/27/2005

Lab File ID: 782903A60 Date Extracted: 09/27/2005

Sample Volume: 1100(ML) Date Analyzed: 10/06/2005

Concentrated Extract Volume: 1000(UL) Dilution Factor: 1.0

Injection Volume: 1.0(UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
51-28-5	2,4-Dinitrophenol	20	U UJ
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	5.0	U
84-66-2	Diethylphthalate	5.0	U
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-nitrosodiphenylamine (1)	5.0	U
95-94-3	1,2,4,5 Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	5.0	U UJ
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
84-74-2	Di-n-butylphthalate	5.0	U
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	5.0	U
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo(a)anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	bis(2-Ethylhexyl)phthalate	4.8	BJ 5.0U
117-84-0	Di-n-octylphthalate	5.0	U UJ
205-99-2	Benzo(b)fluoranthene	5.0	U
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U
53-70-3	Dibenzo(a,h)anthracene	5.0	U
191-24-2	Benzo(g,h,i)perylene	5.0	U

(1) - Cannot be separated from Diphenylamine

MM 10/31/05

1LCG

LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ACSGWPWB26

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 782903 Date Received: 09/27/2005

Lab File ID: 782903A60 Date Extracted: 09/27/2005

Sample Volume: 1100(ML) Date Analyzed: 10/06/2005

Concentrated Extract Volume: 1000(UL) Dilution Factor: 1.0

Injection Volume: 1.0(UL)

Number TICs found: 2

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
01	85-44-9	PHTHALIC ANHYDRIDE	15.57	5.9	NJ
02		UNKNOWN	18.43	5.5	J
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

FORM I LCSV-TIC OLC03.2

1/4/03/05

1LCC
LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

ACSGWPWC26

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 782905 Date Received: 09/27/2005

Lab File ID: 782905A60 Date Extracted: 09/27/2005

Sample Volume: 1000(ML) Date Analyzed: 10/07/2005

Concentrated Extract Volume: 1000(UL) Dilution Factor: 1.0

Injection Volume: 1.0(UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
100-52-7	Benzaldehyde	5.0	U
108-95-2	Phenol	5.0	U
111-44-4	bis(2-Chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	5.0	U
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5.0	U
98-86-2	Acetophenone	5.0	U
106-44-5	4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	5.0	U
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	bis(2-Chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0	U
106-47-8	4-Chloroaniline	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U UJ
105-60-2	Caprolactam	5.0	U UJ
59-50-7	4-Chloro-3-methylphenol	5.0	U
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	U UJ
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	20	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5.0	U

10/10/05

1LCD
LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

ACSGWPWC26

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 782905 Date Received: 09/27/2005

Lab File ID: 782905A60 Date Extracted: 09/27/2005

Sample Volume: 1000(ML) Date Analyzed: 10/07/2005

Concentrated Extract Volume: 1000(UL) Dilution Factor: 1.0

Injection Volume: 1.0(UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
51-28-5	2,4-Dinitrophenol	20	U UJ
100-02-7	4-Nitrophenol	20	U UJ
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	5.0	U
84-66-2	Diethylphthalate	5.0	U
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-nitrosodiphenylamine (1)	5.0	U
95-94-3	1,2,4,5 Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	5.0	U UJ
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
84-74-2	Di-n-butylphthalate	5.0	U
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	5.0	U
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo(a)anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	bis(2-Ethylhexyl)phthalate	5.8	B UB
117-84-0	Di-n-octylphthalate	5.0	U UJ
205-99-2	Benzo(b)fluoranthene	5.0	U
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U
53-70-3	Dibenzo(a,h)anthracene	5.0	U
191-24-2	Benzo(g,h,i)perylene	5.0	U

(1) - Cannot be separated from Diphenylamine

11/03/05

1LCG

LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS EPA SAMPLE NO.

ACSGWPWC26

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 782905 Date Received: 09/27/2005

Lab File ID: 782905A60 Date Extracted: 09/27/2005

Sample Volume: 1000(ML) Date Analyzed: 10/07/2005

Concentrated Extract Volume: 1000(UL) Dilution Factor: 1.0

Injection Volume: 1.0(UL)

Number TICs found: 0

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

FORM I LCSV-TIC OLC03.2

AH10315

1LCC
LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

ACSGWPWD26

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 782907 Date Received: 09/27/2005

Lab File ID: 782907A60 Date Extracted: 09/27/2005

Sample Volume: 1000(ML) Date Analyzed: 10/07/2005

Concentrated Extract Volume: 1000(UL) Dilution Factor: 1.0

Injection Volume: 1.0(UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
100-52-7	Benzaldehyde	5.0	U
108-95-2	Phenol	5.0	U
111-44-4	bis(2-Chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	5.0	U
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5.0	U
98-86-2	Acetophenone	5.0	U
106-44-5	4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	5.0	U
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	bis(2-Chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0	U
106-47-8	4-Chloroaniline	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U UJ
105-60-2	Caprolactam	5.0	U ↓
59-50-7	4-Chloro-3-methylphenol	5.0	U
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	U UJ
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	20	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5.0	U

10/10/3/05

1LCD
LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

ACSGWPWD26

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 782907 Date Received: 09/27/2005

Lab File ID: 782907A60 Date Extracted: 09/27/2005

Sample Volume: 1000(ML) Date Analyzed: 10/07/2005

Concentrated Extract Volume: 1000(UL) Dilution Factor: 1.0

Injection Volume: 1.0(UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
51-28-5	2,4-Dinitrophenol	20	U UJ
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	5.0	U
84-66-2	Diethylphthalate	5.0	U
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-nitrosodiphenylamine (1)	5.0	U
95-94-3	1,2,4,5 Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	5.0	U UJ
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
84-74-2	Di-n-butylphthalate	5.0	U
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	5.0	U
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo(a)anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	bis(2-Ethylhexyl)phthalate	12	B UB
117-84-0	Di-n-octylphthalate	5.0	U UJ
205-99-2	Benzo(b)fluoranthene	5.0	U
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U
53-70-3	Dibenzo(a,h)anthracene	5.0	U
191-24-2	Benzo(g,h,i)perylene	5.0	U

(1) - Cannot be separated from Diphenylamine

LMH 10/31/05

1LCG
LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ACSGWPWD26

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 782907 Date Received: 09/27/2005

Lab File ID: 782907A60 Date Extracted: 09/27/2005

Sample Volume: 1000(ML) Date Analyzed: 10/07/2005

Concentrated Extract Volume: 1000(UL) Dilution Factor: 1.0

Injection Volume: 1.0(UL)

Number TICs found: 0

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

FORM I LCSV-TIC OLC03.2

LH 10/3/05

1LCC
LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

ACSGWPWDUP26

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 782902 Date Received: 09/26/2005

Lab File ID: 782902A60 Date Extracted: 09/27/2005

Sample Volume: 1000(ML) Date Analyzed: 10/06/2005

Concentrated Extract Volume: 1000(UL) Dilution Factor: 1.0

Injection Volume: 1.0(UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
100-52-7	Benzaldehyde	5.0	U
108-95-2	Phenol	5.0	U
111-44-4	bis(2-Chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	5.0	U
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5.0	U
98-86-2	Acetophenone	5.0	U
106-44-5	4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	5.0	U
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	bis(2-Chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0	U
106-47-8	4-Chloroaniline	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U UJ
105-60-2	Caprolactam	5.0	U
59-50-7	4-Chloro-3-methylphenol	5.0	U
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	U UJ
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	20	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5.0	U

LM 10/31/05

1LCD

LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSGWPWDUP26

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 782902 Date Received: 09/26/2005

Lab File ID: 782902A60 Date Extracted: 09/27/2005

Sample Volume: 1000(ML) Date Analyzed: 10/06/2005

Concentrated Extract Volume: 1000(UL) Dilution Factor: 1.0

Injection Volume: 1.0(UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
51-28-5	2,4-Dinitrophenol	20	U UJ
100-02-7	4-Nitrophenol	20	U UJ
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	5.0	U
84-66-2	Diethylphthalate	5.0	U
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-nitrosodiphenylamine (1)	5.0	U
95-94-3	1,2,4,5 Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	5.0	U UJ
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
84-74-2	Di-n-butylphthalate	5.0	U
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	5.0	U
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo(a)anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	bis(2-Ethylhexyl)phthalate	5.0	U
117-84-0	Di-n-octylphthalate	5.0	U UJ
205-99-2	Benzo(b)fluoranthene	5.0	U
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U
53-70-3	Dibenzo(a,h)anthracene	5.0	U
191-24-2	Benzo(g,h,i)perylene	5.0	U

(1) - Cannot be separated from Diphenylamine

MH 10/31/05

1LCG

LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ACSGWPWDUP26

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 782902 Date Received: 09/26/2005

Lab File ID: 782902A60 Date Extracted: 09/27/2005

Sample Volume: 1000(ML) Date Analyzed: 10/06/2005

Concentrated Extract Volume: 1000(UL) Dilution Factor: 1.0

Injection Volume: 1.0(UL)

Number TICs found: 0

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

MH 10/3/05

1LCC
LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

ACSGWPWT26

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 782904 Date Received: 09/27/2005

Lab File ID: 782904A60 Date Extracted: 09/27/2005

Sample Volume: 1000(ML) Date Analyzed: 10/06/2005

Concentrated Extract Volume: 1000(UL) Dilution Factor: 1.0

Injection Volume: 1.0(UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
100-52-7	Benzaldehyde	5.0	U
108-95-2	Phenol	5.0	U
111-44-4	bis(2-Chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	5.0	U
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5.0	U
98-86-2	Acetophenone	5.0	U
106-44-5	4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	5.0	U
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	bis(2-Chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0	U
106-47-8	4-Chloroaniline	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U UJ
105-60-2	Caprolactam	5.0	U
59-50-7	4-Chloro-3-methylphenol	5.0	U
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	U UJ
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	20	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5.0	U

MM 10/31/05

1LCD

LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSGWPWT26

Lab Name: [illegible]CHEM Contract: OLC03-REVS

Lab Code: [illegible]BNTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 782904 Date Received: 09/27/2005

Lab File ID: 782904A60 Date Extracted: 09/27/2005

Sample Volume: 1000(ML) Date Analyzed: 10/06/2005

Concentrated Extract Volume: 1000(UL) Dilution Factor: 1.0

Injection Volume: 1.0(UL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
[illegible]	2,4-Dinitrophenol	20	U UJ
100-02-7	4-Nitrophenol	20	U
[illegible]	Dibenzofuran	5.0	U
[illegible]	2,4-Dinitrotoluene	5.0	U
[illegible]	Diethylphthalate	5.0	U
[illegible]	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	20	U
[illegible]	4,6-Dinitro-2-methylphenol	20	U
[illegible]	N-nitrosodiphenylamine (1)	5.0	U
[illegible]	1,2,4,5 Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
[illegible]	Atrazine	5.0	U
[illegible]	Pentachlorophenol	5.0	U UJ
[illegible]	Phenanthrene	5.0	U
[illegible]	Anthracene	5.0	U
84-74-2	Di-n-butylphthalate	5.0	U
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	5.0	U
[illegible]	Butylbenzylphthalate	5.0	U
[illegible]	3,3'-Dichlorobenzidine	5.0	U
[illegible]	Benzo(a)anthracene	5.0	U
[illegible]	Chrysene	5.0	U
[illegible]	Bis(2-Ethylhexyl)phthalate	18	B UB
[illegible]	Di-n-octylphthalate	5.0	U UJ
[illegible]	Benzo(b)fluoranthene	5.0	U
[illegible]	Benzo(k)fluoranthene	5.0	U
[illegible]	Benzo(a)pyrene	5.0	U
[illegible]	Indeno(1,2,3-cd)pyrene	5.0	U
[illegible]	Dibenzo(a,h)anthracene	5.0	U
[illegible]	Benzo(g,h,i)perylene	5.0	U

[illegible] separated from Diphenylamine

MH 10/3/05

1LCG

LOW CONCENTRATION WATER SEMIVOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ACSGWPWT26

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 782904 Date Received: 09/27/2005

Lab File ID: 782904A60 Date Extracted: 09/27/2005

Sample Volume: 1000(ML) Date Analyzed: 10/06/2005

Concentrated Extract Volume: 1000(UL) Dilution Factor: 1.0

Injection Volume: 1.0(UL)

Number TICs found: 0

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

FORM I LCSV-TIC OLC03.2

LH 10/31/05

LDC #: 14146A2 **VALIDATION COMPLETENESS WORKSHEET** Date: 10/27/05
SDG #: 7829 Level IV Page: 1 of 1
Laboratory: CompuChem Reviewer: D
2nd Reviewer: M

METHOD: GC/MS Semivolatiles (EPA CLP SOW OLM03.2)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 9/23 → 9/26/05
II.	GC/MS Instrument performance check	A	
III.	Initial calibration	SW	
IV.	Continuing calibration	SW	
V.	Blanks	SW	
VI.	Surrogate spikes	SW	
VII.	Matrix spike/Matrix spike duplicates	SW	
VIII.	Laboratory control samples	N	not required
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	A	
XI.	Target compound identification	A	
XII.	Compound quantitation/CRQLs	A	
XIII.	Tentatively identified compounds (TICs)	A	
XIV.	System performance	A	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	ND	D = 1 & 2
XVII.	Field blanks	N	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples:

1	ACSGWPWA26	11	SBLKNX	21		31	
2	ACSGWPWDUP26	12		22		32	
3	ACSGWPWB26	13		23		33	
4	ACSGWPWT26	14		24		34	
5	ACSGWPWC26	15		25		35	
6	ACSGWPWD26	16		26		36	
7	ACSGWPWB26MS	17		27		37	
8	ACSGWPWB26MSD	18		28		38	
9		19		29		39	
10		20		30		40	

LDC #: 14146A2
SDG #: 7829

VALIDATION FINDINGS CHECKLIST

Page: 1 of 3
Reviewer: B
2nd Reviewer: [illegible]

Method: Semivolatiles (EPA CLP SOW OLM03.2)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. GC/MS instrument performance check				
Were the DFTPP performance results reviewed and found to be within the specified criteria?	✓			
Were all samples analyzed within the 12 hour clock criteria?	✓			
III. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) ≤ 30% and relative response factors (RRF) ≥ 0.05?		✓		
IV. Continuing calibration				
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	✓			
Were all percent differences (%D) ≤ 25% and relative response factors (RRF) ≥ 0.05?		✓		
V. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was a method blank analyzed for each matrix and concentration?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	✓			
VI. Surrogate spikes				
Were all surrogate %R within QC limits?	✓			
If 2 or more base neutral or acid surrogates were outside QC limits, was a reanalysis performed to confirm %R?			✓	
If any %R was less than 10 percent, was a reanalysis performed to confirm %R?			✓	
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	✓			
Was an MS/MSD analyzed every 20 samples of each matrix?	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?		✓		
VIII. Laboratory control samples				
Was a LCS analyzed for this SDG?			✓	
Was an LCS analyzed per extraction batch?			✓	

LDC #: 14146A2
SDG #: 7829

VALIDATION FINDINGS CHECKLIST

Reviewer: B
2nd Reviewer: M

Validation Area	Yes	No	NA	Findings/Comments
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?			✓	
IX. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?			✓	
Were the performance evaluation (PE) samples within the acceptance limits?			✓	
X. Internal standards				
Were internal standard area counts within -50% or +100% of the associated calibration standard?	✓			
Were retention times within ± 30 seconds from the associated calibration standard?	✓			
XI. Target compound identification				
Were relative retention times (RRT's) within ± 0.06 RRT units of the standard?	✓			
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	✓			
Were chromatogram peaks verified and accounted for?	✓			
XII. Compound quantitation/CRQLs				
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?	✓			
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XIII. Tentatively identified compounds (TICs)				
Were the major ions (> 10 percent relative intensity) in the reference spectrum evaluated in sample spectrum?	✓			
Were relative intensities of the major ions within ± 20% between the sample and the reference spectra?	✓			
Did the raw data indicate that the laboratory performed a library search for all required peaks in the chromatograms (samples and blanks)?	✓			
XIV. System performance				
System performance was found to be acceptable.	✓			
XV. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			
XVI. Field duplicates				
Field duplicate pairs were identified in this SDG.	✓			
Target compounds were detected in the field duplicates.		✓		

LDC #: 14146A2
SDG #: 7829

VALIDATION FINDINGS CHECKLIST

Reviewer: B
2nd Reviewer: E

Validation Area	Yes	No	NA	Findings/Comments
XVII. Field blanks				
Field blanks were identified in this SDG.		✓		
Target compounds were detected in the field blanks.			✓	

VALIDATION FINDINGS WORKSHEET

METHOD: GC/MS BNA (EPA CLP SOW OLM03.~~1~~ C)

A. Phenol	N. 2-Nitrophenol	AA. 2-Chloronaphthalene	NN. Fluorene	AAA. Butylbenzylphthalate
B. Bis (2-chloroethyl) ether	O. 2,4-Dimethylphenol	BB. 2-Nitroaniline	OO. 4-Nitroaniline	BBB. 3,3'-Dichlorobenzidine
C. 2-Chlorophenol	P. Bis(2-chloroethoxy)methane	CC. Dimethylphthalate	PP. 4,6-Dinitro-2-methylphenol	CCC. Benzo(a)anthracene
D. 1,3-Dichlorobenzene	Q. 2,4-Dichlorophenol	DD. Acenaphthylene	QQ. N-Nitrosodiphenylamine (1)	DDD. Chrysene
E. 1,4-Dichlorobenzene	R. 1,2,4-Trichlorobenzene	EE. 2,6-Dinitrotoluene	RR. 4-Bromophenyl-phenylether	EEE. Bis(2-ethylhexyl)phthalate
F. 1,2-Dichlorobenzene	S. Naphthalene	FF. 3-Nitroaniline	SS. Hexachlorobenzene	FFF. Di-n-octylphthalate
G. 2-Methylphenol	T. 4-Chloroaniline	GG. Acenaphthene	TT. Pentachlorophenol	GGG. Benzo(b)fluoranthene
H. 2,2'-Oxybis(1-chloropropane)	U. Hexachlorobutadiene	HH. 2,4-Dinitrophenol	UU. Phenanthrene	HHH. Benzo(k)fluoranthene
I. 4-Methylphenol	V. 4-Chloro-3-methylphenol	II. 4-Nitrophenol	VV. Anthracene	III. Benzo(a)pyrene
J. N-Nitroso-di-n-propylamine	W. 2-Methylnaphthalene	JJ. Dibenzofuran	WW. Carbazole	JJJ. Indeno(1,2,3-cd)pyrene
K. Hexachloroethane	X. Hexachlorocyclopentadiene	KK. 2,4-Dinitrotoluene	XX. Di-n-butylphthalate	KKK. Dibenz(a,h)anthracene
L. Nitrobenzene	Y. 2,4,6-Trichlorophenol	LL. Diethylphthalate	YY. Fluoranthene	LLL. Benzo(g,h,i)perylene
M. Isophorone	Z. 2,4,5-Trichlorophenol	MM. 4-Chlorophenyl-phenyl ether	ZZ. Pyrene	

Notes: _____

LDC #: 14 6A2

SDG #: 7889

VALIDATION FINDINGS WORKSHEET
Initial Calibration

Page: 1 of 1

Reviewer: F2

2nd Reviewer: a

METHOD: GC/MS BNA (EPA CLP SOW OLM03.2)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Did the laboratory conduct an acceptable 5 point calibration prior to sample analysis?

Y N N/A Were all relative standard deviations (%RSD) ≤30.0% and Relative Response Factors (RRF) ≥0.05?

#	Date	Standard ID	Compound	Finding %RSD (Limit: ≤30.0%)	Finding RRF (Limit: ≥0.05)	Associated Samples	Qualifications
	3/10/05	OLC03V5	X	39.0		All + Blk	J/UJ/A
			HH	48.8		↓	↓
			TT	30.8			

LDC #: 14146A2
SDG #: 7829
METHOD: GC/MS BNA (EPA CLP SOW OLM03.1)

VALIDATION FINDINGS WORKSHEET
Continuing Calibration

Page: 1 of 1
Reviewer:
2nd Reviewer:

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was a continuing calibration standard analyzed at least once every 12 hours of sample analysis for each instrument?
Y N N/A Were all percent differences (%D) ≤25.0% and Relative Response Factors ≥0.05?

#	Date	Standard ID	Compound	Finding %D (Limit: ≤25.0%)	Finding RRF (Limit: ≥0.05)	Associated Samples	Qualifications
	10/6/05	HG051006A60	U	29.7		SBLKNX,	J/UJ/A
	0921		II	26.9		1→4	
			FFF	26.8		↓	↓
			GGG	27.2			
	10/7/05	HG051007A60	U	26.2		5→8	
	0840		Caprolactam	26.2		↓	↓
			II	33.7			
			FFF	30.7			

CONCAL2C3

LDC #: 14146A2
SDG #: 7829

VALIDATION FINDINGS WORKSHEET
Blanks

Page: 1 of 1
Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: GC/MS BNA (EPA CLP SOW OLM03.1)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was a method blank analyzed for each matrix?
Y N N/A Was a method blank analyzed for each concentration level preparation?
Y N N/A Was a method blank associated with every sample?
Y N N/A Was the blank contaminated? If yes, please see qualification below.

Blank extraction date: 9/27/05 **Blank analysis date:** 10/6/05
Conc. units: ug/L Associated Samples: All

Compound	Blank ID	Sample Identification								
	SBLKNX		3	5	6	4				
~~Di-n-butylphthalate~~										
~~Butylbenzylphthalate~~										
Bis(2-ethylhexyl)phthalate	14		4.8/5.0uB	5.8/uB	12/uB	18/uB				
TIC ~~Di-n-octylphthalate~~ unknown	2.2 (28.48)		-	-	-	-				
CRQL										
TICs:										
~~4-Hydroxy-4-methyl-2-pentanone~~										

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
Common contaminants such as the phthalates and TICs noted above that were detected in samples within ten times the associated method blank concentration were qualified as not detected, "U". Other contaminants within five times the method blank concentration were also qualified as not detected, "U".

LDC #: 14146A2
SDG #: 7829
METHOD: GC/MS BNA (EPA CLP SOW OLM03.2)

VALIDATION FINDINGS WORKSHEET
Surrogate Spikes

Page: 1 of 1
Reviewer: [illegible]
2nd Reviewer: [illegible]

Please see qualification below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were percent recoveries (%R) for surrogates within QC limits stated below?
Y N N/A If 2 or more base neutral or acid surrogates were outside QC limits, was a reanalysis performed to confirm %R?
Y N N/A If any %R was less than 10 percent, was a reanalysis performed to confirm %R?

#	Date	Sample ID	Surrogate	%R (Limits)	Qualifications
		SBLKNX	*	83 (8-70)	NO QUAL
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
			* = 4-chloroaniline-d4	( )	

* QC limits are advisory	QC Limits (Soil)	QC Limits (Water)
S1 (NBZ) = Nitrobenzene-d5	23-120	35-114
S2 (FBP) = 2-Fluorobiphenyl	30-115	43-116
S3 (TPH) = Terphenyl-d14	18-137	33-141
S4 (PHL) = Phenol-d5	24-113	10-110
S5 (2FP)= 2-Fluorophenol	25-121	21-110
S6 (TBP) = 2,4,6-Tribromophenol	19-122	10-123
S7 (2CP) = 2-Chlorophenol-d4	20-130*	33-110*
S8 (DCB) = 1,2-Dichlorobenzene-d4	20-130*	16-110*

LDC #: 1(6A2
SDG #: 7629

VALIDATION FIND(S WORKSHEET
Matrix Spike/Matrix Spike Duplicates

P(1 of 1
Review: 13
2nd Reviewer: M

METHOD: GC/MS BNA (EPA CLP SOW OLM03.2)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.

Y N N/A Were a MS/MSD analyzed for every 20 samples of each matrix?

Y N N/A Were a MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?

#	Date	MS/MSD ID	Compound	MS %R (Limits)	MSD %R (Limits)	RPD (Limits)	Associated Samples	Qualifications
		7+8	II	84 (10-80)	( )	( )	3	J/A det
			TT	( )	113 (9-103)	( )	↓	↓
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		

	Compound	QC Limits (Soil)	RPD (Soil)	QC Limits (Water)	RPD (Water)		Compound	QC Limits (Soil)	RPD (Soil)	QC Limits (Water)	RPD (Water)
A	Phenol	26-90%	≤ 35%	12-110%	≤ 42%	GG	Acenaphthene	31-137%	≤ 19%	46-118%	≤ 31%
C	2-Chlorophenol	25-102%	≤ 50%	27-123%	≤ 40%	II	4-Nitrophenol	11-114%	≤ 50%	10-80%	≤ 50%
E	1,4-Dichlorobenzene	28-104%	≤ 27%	36-97%	≤ 28%	KK	2,4-Dinitrotoluene	28-89%	≤ 47%	24-96%	≤ 38%
J	N-Nitroso-di-n-propylamine	41-126%	≤ 38%	41-116%	≤ 38%	TT	Pentachlorophenol	17-109%	≤ 47%	9-103%	≤ 50%
R	1,2,4-Trichlorobenzene	38-107%	≤ 23%	39-98%	≤ 28%	ZZ	Pyrene	35-142%	≤ 36%	26-127%	≤ 31%
V	4-Chloro-3-methylphenol	26-103%	≤ 33%	23-97%	≤ 42%						

LDC #: 14146A2
SDG #: 7429

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Reviewer: 5
2nd Reviewer: 2

METHOD: GC/MS BNA (EPA CLP SOW OLM03.2)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

$RRF = (A_x)(C_{is})/(A_{is})(C_x)$
average RRF = sum of the RRFs/number of standards
%RSD = 100 * (S/X)

A_x = Area of compound, A_{is} = Area of associated internal standard
C_x = Concentration of compound, C_{is} = Concentration of internal standard
S = Standard deviation of the RRFs, X = Mean of the RRFs

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Reported RRF (20 std)	Recalculated RRF (20 std)	Reported Average RRF (Initial)	Recalculated Average RRF (Initial)	Reported %RSD	Recalculated %RSD
1	OLC03V5	3/10/05	Phenol (1st internal standard)	1.889	1.889	1.834	1.834	3.0	3.0
			Naphthalene (2nd internal standard)	1.010	1.010	1.000	1.00	2.7	2.7
			Fluorene (3rd internal standard)	1.372	1.372	1.366	1.366	3.3	3.3
			Pentachlorophenol (4th internal standard)	0.127	0.127	0.106	0.106	30.8	30.8
			Bis(2-ethylhexyl)phthalate (5th internal standard)	1.282	1.282	1.257	1.257	5.0	5.0
			Benzo(a)pyrene (6th internal standard)	1.388	1.388	1.399	1.399	1.7	1.7
2			Phenol (1st internal standard)						
			Naphthalene (2nd internal standard)						
			Fluorene (3rd internal standard)						
			Pentachlorophenol (4th internal standard)						
			Bis(2-ethylhexyl)phthalate (5th internal standard)						
			Benzo(a)pyrene (6th internal standard)						
3			Phenol (1st internal standard)						
			Naphthalene (2nd internal standard)						
			Fluorene (3rd internal standard)						
			Pentachlorophenol (4th internal standard)						
			Bis(2-ethylhexyl)phthalate (5th internal standard)						
			Benzo(a)pyrene (6th internal standard)						

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 1146A2
SDG #: 7829

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Page: 1 of 1
Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: GC/MS BNA (EPA CLP SOW OLM03.1)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. RRF - RRF)/ave. RRF
$RRF = (A_x)(C_{is})/(A_{is})(C_x)$

Where: ave. RRF = initial calibration average RRF
RRF = continuing calibration RRF
A_x = Area of compound, A_{is} = Area of associated internal standard
C_x = Concentration of compound, C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Average RRF (Initial)	Reported RRF (CC)	Recalculated RRF (CC)	Reported %D	Recalculated %D
1	HG051006A	10/6/05 0921	Phenol (1st internal standard)	1.834	1.772	1.772	3.4	3.4
			Naphthalene (2nd internal standard)	1.000	1.105	1.105	10.5	10.5
			Fluorene (3rd internal standard)	1.366	1.552	1.552	13.9	13.9
			Pentachlorophenol (4th internal standard)	0.106	0.085	0.085	19.8	19.8
			Bis(2-ethylhexyl)phthalate (5th internal standard)	1.257	1.198	1.198	4.7	4.7
			Benzo(a)pyrene (6th internal standard)	1.399	1.228	1.228	12.2	12.2
2	HG051007A60	10/7/05	Phenol (1st internal standard)		1.824	1.824	0.5	0.5
			Naphthalene (2nd internal standard)		1.101	1.101	10.1	10.1
			Fluorene (3rd internal standard)		1.549	1.549	13.4	13.4
			Pentachlorophenol (4th internal standard)		0.087	0.087	17.9	17.9
			Bis(2-ethylhexyl)phthalate (5th internal standard)		1.168	1.168	7.1	7.1
			Benzo(a)pyrene (6th internal standard)		1.207	1.207		
3			Phenol (1st internal standard)					
			Naphthalene (2nd internal standard)					
			Fluorene (3rd internal standard)					
			Pentachlorophenol (4th internal standard)					
			Bis(2-ethylhexyl)phthalate (5th internal standard)					
			Benzo(a)pyrene (6th internal standard)					

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 14146A2
SDG #: 7829

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Page: 1 of 1
Reviewer: [illegible]
2nd reviewer: [illegible]

METHOD: GC/MS Semivolatiles (EPA CLP SOW OLM03.1)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: 41

	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
			Reported	Recalculated	
Nitrobenzene-d5 (Bis-(2-chloro ethyl) ether-d8)	40	20.8630	53	53	0
2-Fluorobiphenyl (2-chlorophenol-d4)		19.9043	50	50	
Terphenyl-d14 (4-methylphenol-d8)		22.6703	58	57	
Phenol-d5 (Phenol-d5)		19.7572	50	50	
2-Fluorophenol (nitrobenzene d5)		21.2376	53	53	
2,4,6-Tribromophenol (2-nitrophenol-d4)		21.1690	53	53	
2-Chlorophenol-d4 (2,4-Dichlorophenol-d3)		21.7642	55	54	
1,2-Dichlorobenzene-d4 (4-chloroaniline-d4)		19.2455	48	48	

Sample ID: _____

	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
			Reported	Recalculated	
Nitrobenzene-d5					
2-Fluorobiphenyl					
Terphenyl-d14					
Phenol-d5					
2-Fluorophenol					
2,4,6-Tribromophenol					
2-Chlorophenol-d4					
1,2-Dichlorobenzene-d4					

Sample ID: _____

	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
			Reported	Recalculated	
Nitrobenzene-d5					
2-Fluorobiphenyl					
Terphenyl-d14					
Phenol-d5					
2-Fluorophenol					
2,4,6-Tribromophenol					
2-Chlorophenol-d4					
1,2-Dichlorobenzene-d4					

LDC #: 14Y \A2
SDG #: 78

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

Page: 1 of 1
Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: GC/MS BNA (EPA CLP SOW OLM03.1)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * (SSC - SC)/SA Where: SSC = Spiked sample concentration; SA = Spike added; SC = Sample concentation

RPD = | MS - MSD | * 2/(MS + MSD) MS = Matrix spike percent recovery MSD = Matrix spike duplicate percent recovery

MS/MSD samples: 7 + 8

Compound	Spike Added (ug/L)		Sample Concentration (ug/L)	Spiked Sample Concentration (ug/L)		Matrix Spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD	---	MS	MSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalculated
Phenol	80	80	ND	49	48	61	61	60	60	2	2
2-Chlorophenol	↓	↓	↓	48	47	60	60	59	59	2	2
1,4-Dichlorobenzene	NA	NA									
N-Nitroso-di-n-propylamine	20	20		13	11	65	65	55	55	17	17
1,2,4-Trichlorobenzene	NA	NA									
4-Chloro-3-methylphenol	80	80		59	56	74	74	70	70	6	6
Acenaphthene	20	20		13	13	65	65	65	65	0	0
4-Nitrophenol	80	80		67	59	84	84	74	74	13	13
2,4-Dinitrotoluene	20	20		14	14	70	70	70	70	0	0
Pentachlorophenol	80	80		100	90	125	125	113	113	10	10
Pyrene	20	20	↓	16	16	80	80	80	80	0	0

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 14146A2
SDG #: 7829

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

CLP SOW OLM03.1

Page: 1 of 1
Reviewer: [illegible]
2nd reviewer: [illegible]

METHOD: GC/MS BNA (EPA ~~SW 846 Method 8270~~)

Y N N/A Were all reported results recalculated and verified for all level IV samples?
Y/N N/A Were all recalculated results for detected target compounds agree within 10.0% of the reported results?

Concentration = $\frac{(A_x)(I_s)(V_t)(DF)(2.0)}{(A_{is})(RRF)(V_o)(V_i)(\%S)}$

- A_x = Area of the characteristic ion (EICP) for the compound to be measured
- A_{is} = Area of the characteristic ion (EICP) for the specific internal standard
- I_s = Amount of internal standard added in nanograms (ng)
- V_o = Volume or weight of sample extract in milliliters (ml) or grams (g).
- V_i = Volume of extract injected in microliters (ul)
- V_t = Volume of the concentrated extract in microliters (ul)
- Df = Dilution Factor.
- %S = Percent solids, applicable to soil and solid matrices only.
- 2.0 = Factor of 2 to account for GPC cleanup

Example:

Sample I.D. 3 . EEE

Conc. = $\frac{(3764)(20)(1)(1000)(\quad)}{(111789)(1.198)(1100)(\quad)(\quad)}$

= 4.8 ug/L

#	Sample ID	Compound	Reported Concentration ( )	Calculated Concentration ( )	Qualification

CompuChem
a division of Liberty Analytical Corp.

11-Oct-05

14146A

AMY CLORE
MONTGOMERY WATSON HARZA
175 WEST JACKSON BOULEVARD
SUITE 1900
Chicago, IL 606042814

Subject:
Report of Data-Project: ACS/NPL SITE Workorder: 7829

Attn.: AMY CLORE

Enclosed are the results of analytical work performed in accordance with the referenced account number.

This report covers sample(s) appearing on the attached listing.

Thank you for selecting CompuChem for your sample analysis. If you should have questions or require additional analytical services, please contact your representative at 1-800-833-5097.

Sincerely,

CompuChem
A Division of Liberty Analytical

Attachment

TOTAL NUMBER
OF PAGES 65

501 Madison Avenue, Cary, NC 27513 Tel: 919-379-4100 Fax: 919-379-4050

CompuChem

a division of Liberty Analytical Corporation
501 Madison Avenue
Cary, N.C. 27513
Tel: 919/379-4100 Fax: 919/379-4050

SDG NARRATIVE
SDG # 7829
PROTOCOL: OLC03-REVS

SAMPLE IDENTIFICATIONS: ACSGWPWA26, ACSGWPWB26, ACSGWPWC26, ACSGWPWD26, ACSGWPWDUP26, ACSGWPWT26

The six water samples listed above were scheduled for the requested analysis of the Pesticides fraction. The samples were prepared and analyzed following the current EPA Contract Laboratory Program (CLP) Statement of Work (SOW), Document OLC03.2. This portion of the SDG narrative deals with the Pesticide fraction only. All pertinent Quality Assurance notices are included in the narrative section and all pertinent Laboratory notices for SDG #7829 are included in the sample data sections.

Pesticides

Extraction and analysis holding time requirements were met for the original extraction of the samples. The samples were re-extracted outside of holding time due to a recovery outside of criteria in the original Laboratory Control Sample. Both sets of data have been submitted.

There were no pesticide or PCB analytes confirmed by dual column analysis above the Contract Required Quantitation Limit (CRQL) in the samples.

Manual quantitations were performed on one or more of the process files associated with this SDG. The reasons have been coded with explanations provided in the notice included in the narrative section of the SDG.

All QC criteria were met for all initial and continuing calibration standards associated to this SDG. All of the surrogates met recovery and retention time criteria in the analysis of the samples.

The associated method blanks met all quality control criteria. In the original extraction blank, PBLKMA, there was one peak within the retention time window of Heptachlor on the CLPEST column and within the window of Heptachlor epoxide on the CLPEST2 column that had concentrations above the CRQL. In the blank associated with the re-extracts, PBLKAM, there was a peak within the retention time for Heptachlor epoxide above the CRQL. None of these peaks confirmed as actual hits.

Sample ACSGWPWB26 was used as the original to prepare the duplicate matrix spikes (MS/MSD) as requested. The associated duplicate matrix spikes met all recovery and precision criteria with the exception of Heptachlor on the CLPEST column in the original and re-extracted MS/MSD.

The associated Laboratory Control Sample (LCS) prepared and analyzed with the original extraction of the samples met all recovery criteria with the exception of Heptachlor epoxide on the CLPEST2 column, apparently due to the presence of sulfur in the extract. Sulfur clean-up was not done due to the limited volume of extract remaining after analysis. The LCS prepared and analyzed with the re-extracted samples met all recovery criteria.

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

Kerry S. Hinshaw

Kerry S. Hinshaw
Semivolatiles Manager
October 10, 2005

CompuChem, a division of Liberty Analytical

Hsn	Client ID	Wordorder	Matrix	Account	Project	Report
782901	ACSGWPWA26	7829	W	MWH	ACS/NPL SITE	
782902	ACSGWPWDUP26	7829	W	MWH	ACS/NPL SITE	
782903	ACSGWPWB26	7829	W	MWH	ACS/NPL SITE	
782904	ACSGWPWT26	7829	W	MWH	ACS/NPL SITE	
782905	ACSGWPWC26	7829	W	MWH	ACS/NPL SITE	
782906	ACSGWPWTB26	7829	W	MWH	ACS/NPL SITE	10/4/2005
782907	ACSGWPWD26	7829	W	MWH	ACS/NPL SITE	

SAMPLE DATA PACKAGE

The sample data package shall include data for all analyses of all samples in one Sample Delivery Group (SDG), including field samples, dilutions, reanalyses, and Laboratory Control Samples. The sample data package consists of the following:

A. SDG Narrative

B. Traffic Reports

C. Volatiles Data

D. Semivolatiles Data

E. Pesticide / Aroclor Data

LAB CODE : LIBRTY CONTRACT # : OLC03-REVS

CASE # : _____ SDG # : 7829

A. SDG Narrative

GC and GC/MS Column and Trap Specifications Table

SDG #:	7829

COLUMNS

Columns Utilized	Brand Name	Coating Material	ID (mm)	Film Thickness (um)	Length (m)
	GC Laboratory				
	Restek	RTX-5	0.53	1.0	30
	Restek	RTX-SMS	0.53	1.0	30
✓	Restek	CLPesticides	0.53	0.5	30
✓	Restek	CLPesticides II	0.53	0.42	30
	J&W	DB-210	0.53	1.0	30
	J&W	GS-GASPRO	0.32		30
	GC Volatiles Laboratory				
	Restek	RTX-Volatiles	0.53	2.0	30
	GC/MS Volatiles Laboratory				
	Restek	RTX-624	0.32	1.8	60
	Restek	RTX-VMS*	0.18	1.0	20
	Phenomonex	ZB-624	0.32	1.8	60
	Supelco	SPB-624	0.32	3	75
	GC/MS Semivolatiles Laboratory				
	Restek	RTX-5MS	0.25	0.3	30
	Restek	RTX-5MS	0.32	0.3	30
	HPLC Laboratory				
	Supelco	Supelcosil LC-PAH	4.6	5.0	15 cm
	Supelco	Discovery RP Amide C16	4.6	5.0	25 cm
	Restek	Pinnacle Cyano	4.6	5	25 cm
	Restek	Allure C18	4.6	5	25 cm

TRAPS

	GC and GC/MS Volatiles Laboratory	
	Tekmar 3	* 8 cm of 2,6-diphenylene oxide polymer (Tenax)
		* 8 cm of silica gel
		* 7 cm of coconut charcoal
		* 0.5 cm of silanized glass wool at each end
	Tekmar 5	* 1 cm of methyl silicone packing (OV-1 coating)
		* 8 cm of 2,6-diphenylene oxide polymer (Tenax)
		* 8 cm of silica gel
		* 7 cm of coconut charcoal
		* 0.5 cm of silanized glass wool at each end
	Supelco K (Vocarb3000)	* 10 cm of Carbopack B (Graphitized Carbons)
		* 6 cm of Carboxen 1000 (Carbon molecular sieves)
		* 1 cm of Carboxen 1001 (Carbon molecular sieves)

Rev. 18

CompuChem

a division of Liberty Analytical Corporation

CompuChem's Pagination Convention

As required by the current EPA CLP Statement of Work (SOW) documents, data to be delivered must be paginated (by machine or hand). In the event that the initial numbering is incorrect (a page numbered twice or a page skipped, for example), it is CompuChem's policy to add in an alphabetic suffix to a page number when necessary (e.g., 100A, 100B, etc.).

CompuChem
a division of Liberty Analytical Corporation

Notification Regarding Manual Editing/Integration Flags

In some instances, manual adjustments to the software output are necessary to provide accurate data. These manual integrations are performed by the data reviewers, GC/MS operators, or GC chemists. An Extracted Ion Current Profile (EICP) or a GC chromatographic peak has been provided for the manual integration performed on each compound to demonstrate the accuracy of that process. The manual integrations are flagged on the quantitation report in the far right column beyond the FINAL concentration for GC/MS analysis, and in the "Flags" column for GC analysis. The manual editing/integration flags are:

M - Denotes that a manual integration has been performed for this compound. The manual integration was performed in order to provide the most accurate area count possible for the peak.

H - Denotes that the data reviewer, GC/MS operator, or GC Chemist has chosen an alternate peak within the retention time window from that chosen by the software for that compound. No manual integration is performed in choosing an alternate peak. The software still performs the integration.

MH - Denotes that an alternate peak has been chosen within the retention time window from that chosen by the software for that compound and also a manual integration of the chosen peak has been performed. The manual integration was performed in order to provide the most accurate area count possible for the peak.

L - Denotes that a data reviewer or GC/MS operator has selected an alternate library search. This is typically done when an additional tentatively identified compound (TIC) has been added to the number of peaks searched. No manual integration is performed in choosing an alternate peak. The software still performs the integration.

ML - Denotes that an alternate library search has been selected and a manual integration has also been performed. This is typically done when an additional TIC has been added and the TIC peak also required a manual integration.

The EPA CLP SOW documents require additional explanations for manual editing/integration. In the accompanying raw data packages, additional codes have been applied to the "M" flag and carry the following meanings;

M1 - The compound was not found by the automatic integration routine.

M2 - The compound was incorrectly integrated by the automatic integration routine.

M3 - The co-eluting compounds were incorrectly integrated by the automatic integration routine.

These codes will appear in the GC/MS and GC data packages.

Robert E. Meierer

Robert E. Meierer
Vice President

DATA REPORTING QUALIFIERS (continued)

C : This flag applies to GC or HPLC results where the identification has been confirmed by GC/MS. If GC/MS confirmation was attempted but was unsuccessful, this flag is not applied; a laboratory-defined flag is used instead (see the X/Y/Z qualifier.)

B : This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates probable blank contamination and warns the data user to take appropriate action. This flag is used for a TIC as well as for a positively identified target compound. The combination of flags BU or UB is not an allowable policy. Blank contaminants are flagged B only when they are detected in the sample.

E : This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis. If one or more compounds have a response greater than the upper level of the calibration range, the sample or extract will be diluted and reanalyzed. All such compounds with a response greater than the upper level of the calibration range will have the concentration flagged with an E on Form I for the original analysis.

D : If a sample or extract is reanalyzed at a higher dilution factor, for example when the concentration of an analyte exceeds the upper calibration range, the DL suffix is appended to the sample number on Form I for the more diluted sample, and **all** reported concentrations on that Form I are flagged with the D flag. This flag alerts data users that any discrepancies between the reported concentrations may be due to dilution of the sample or extract.

NOTE 1: The D flag is not applied to compounds which are not detected in the sample analysis i.e. compounds reported with the CRQL (or Reporting Limit) and the U flag.

NOTE 2: Separate Form Is are used for reporting the original analysis (Client Sample No. XXXXX) and the more diluted sample analysis (Client Sample No. XXXXXDL) i.e. the results from both analyses <u>are not combined</u> on a single Form I.

A : This flag indicates that a TIC is a suspected aldol-condensation product.

X/Y/Z : Other specific flags may be required to properly define the results. If used, the flags will be fully described in the SDG Narrative. The laboratory-defined flags are limited to X, Y and Z.

DATA REPORTING QUALIFIERS

On the Form I, under the column labeled "Q" for qualifier, each result is flagged with the specific data reporting qualifiers listed below, as appropriate. Up to five qualifiers may be reported on Form I for each compound. The qualifiers used are:

U : This flag indicates the compound was analyzed for but not detected. The Contract Required Quantitation Limit (CRQL), or reporting limit, will be adjusted to reflect any dilution and, for soils, the percent moisture.

J : This flag indicates an estimated value. The flag is used as detailed below:

1. When estimating a concentration for tentatively identified compounds (TICs) where a response factor of 1.0 is assumed for the TIC analyte,

2. When the mass spectral and retention time data indicate the presence of a compound that meets the volatile and semivolatile GC/MS identification criteria, and the result is less than the CRQL (or Reporting Limit) but greater than zero, and

3. When the retention time data indicate the presence of a compound that meets the pesticide/Arocior or other GC or HPLC identification criteria, and the result is less than the CRQL (or Reporting Limit) but greater than zero. For example, if the CRQL (or Reporting Limit) is 10 µg/L, but a concentration of 3 µg/L is calculated, it is reported as 3J.

N : This flag indicates presumptive evidence of a compound. This flag is only used for TICs, where the identification is based on a mass spectral library search. For generic characterization of a TIC such as 'chlorinated hydrocarbon', the N flag is not used.

P : In the EPA's Contract Laboratory Program (CLP), this flag is used for a pesticide/Aroclor target analyte, when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form I and flagged with a P.
For SW-846 GC and HPLC analyses, when the Relative Percent Difference (RPD) is greater than 40% and there is no evidence of chromatographic anomalies or interferences, then the higher of the two values is reported and flagged with a P. When the RPD is equal to or less than 40%, our policy is to also report the higher of the two values, although the choice could be a project specific issue. For certain HPLC analyses, if one of the HPLC columns displays co-elution of target analytes, all results are reported from a primary column displaying no co-elution. Results are still flagged with a P if the RPD between columns is greater than 40%.

B. Traffic Reports

The laboratory shall include a copy of the Traffic Reports for all of the samples in the SDG. The Traffic Reports shall be arranged in increasing EPA Sample ID number order, considering both letters and numbers.

CompuChem
a division of Liberty Analytical Corp.

CHAIN OF CUSTODY

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

№ 007[illegible]8

Page 1 of 1

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information	Project Information
Company Name: MWH	Project Name: ACS Residential
Address: 175 W. Jackson Blvd. Ste 1900	Sampling Location: Griffith, IN
City: Chicago State: IL Zip: 60604	Turnaround time: Specified in W.O.
Project Contact: Amy Clore	Batch QC or Project Specific? If Specific, which Sample ID?
Phone #: 312-831-3000	Are aqueous samples field filtered for metals? Y or N
Sampler's Name: AClore / JEager	Are high concentrations expected? Y or N? If yes, which ID(s)?

Matrices: GW - Ground water; WW - Waste water; SW - Surface water; SO - Soil/Sediment; TB - Trip Blank; RI - Rinsate; WP - Wipe; O - Other

Lab Sample ID	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other None	Requested Analysis: VOCs (low conc.)	SVOCs (low conc)	Pest. /PCBs (low conc)	Metals	Cyanide	Comments
782901	ACS-GW-PWA-26	9/23	1000	GW	9	3	1	1			4	✓	✓	✓	✓	✓	<2 >12
782902	ACS-GW-PWDUP-26	9/23	1000	GW	9	3	1	1			4	✓	✓	✓	✓	✓	<2 >12

MS 9/26/05

Lab Use Only

Sample Unpacked By: Jennifer Dwyer
Sample Order Entry By: [illegible]
Samples Received in Good Condition? (Y) or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or NA
625 & Phenol samples checked for chlorine? Y or NA
608 samples checked for pH between 5.0-9.0? Y or NA

Sample Custody

Relinquished by: Amy Clore	Date/Time: 9/23/05 1150	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by: Jennifer Dwyer	Date/Time: 9-26-05 9:00
Subcontact? Y or N If yes, where?	Custody Seal(s) intact? Y or N	On Ice? (Y) or N	Cooler Temp: 5.2, 5.7 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

№ 007712

Page 1 of 1

CHAIN OF CUSTODY

CompuChem
a division of Liberty Analytical Corp.

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Courier
Airbill No.
Sampling Complete? Y or N

Client/Company Information

Company Name: MWH
Address: 175 W. Jackson Blvd. Suite 1900
City: Chicago State: IL Zip: 60604
Project Contact: Amy Clore
Phone #: 312-831-3000
Sampler's Name: J. Finger / A. Clore

Project Information

Project Name: ACS Residential GW
Sampling Location: Griffith, IN
Turnaround time: Specified in work plan
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or N
Are high concentrations expected? Y or N? If yes, which ID(s)? N

Requested Analysis (include method and bottle type)

Residential GW Complete

Matrices: GW - Ground water; WW - Waste water; SW - Surface water; SO - Soil/Sediment; TB - Trip Blank; RI - Rinsate; WP - Wipe; O - Other

Lab ID	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Preserved: HCl	NaOH	HNO3	H2SO4	MEOH	Other None	VOCs	SVOCs	Pest./PCBs	TAL Metals	Cyanide	
782903	ACS-GW-PWB-26	9/26	0830	GW	27	9	3	3			12	✓	✓	✓	✓	✓	<2 >12
782904	ACS-GW-PWT-26	9/26	0940	GW	9	3	1	1			4	✓	✓	✓	✓	✓	<2 >12
782905	ACS-GW-PWC-26	9/26	1020	GW	9	3	1	1			4	✓	✓	✓	✓	✓	<2 >12
782906	ACS-GW-PWTB-26	9/26	—	TB	1	1						✓					
782907	ACS-GW-PWD-26	9/26	1715	GW	9	3	1	1			4	✓	✓	✓	✓	✓	<2 >12

Sample Unpacked By:
Sample Order Entry By:
Samples Received in Good Condition? Y or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or NA
625 & Phenol samples checked for chlorine? Y or NA
608 samples checked for pH between 5.0-9.0? Y or NA

Comments

Rec'd Broken
2-BL ACS GW-PWB-26 (1 Pest / SVOC)
1-BL ACS GW-PWT-26 (SVOC)
1-

Sample Custody

Relinquished by: Amy Clore	Date/Time: 9/26/05 1800	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time: 9-27-05 9:12

Subcontract? Y or N If yes, where?
Custody Seal(s) intact? Y or N
On Ice? Y or N
Cooler Temp: 2.5 3.4 2.0 C 2.3

Sample 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for custo

CompuChem

a division of Liberty Analytical Corp.

WORKORDER SUMMARY REPORT

Workorder: 7829 **Account:** MWH **Project:** ACS
SDG-Case: ACS **Status:** CLOSED **QC Type:** CLIENT SPECIFIC MS/MSD
Report Style: COMPUCHEM STYLE 9 WITH EDD AND CD

SAMPLE ID	CLIENT ID	COLLECT DATE	RECEIVE DATE	DUE DATE	COMMENTS
782901	ACSGWPWA26	9/23/2005	9/26/2005	10/10/2005	PPS1002/TCL4 8260 25ML, OLC3.2 SVOAS & PEST/PCBS, METALS & CN
W	VW82-25TC4	VOC 8260B 25ML TCL4 WATER			
W	GW32PPTCL	PST/PCB OLC03.2 TCL WATER			
W	SW32TCL	SVOC OLC03.2 TCL WATER			
W	WW9012CN	CYANIDE 9010B/9012A WATER			
W	MW7470HG	MERCURY ONLY 7470A WATER			
W	MW6010TAL	METAL 6010B TAL WATER			
782902	ACSGWPWDUP2	9/23/2005	9/26/2005	10/10/2005	PPS1002/TCL4 8260 25ML, OLC3.2 SVOAS & PEST/PCBS, METALS & CN
W	VW82-25TC4	VOC 8260B 25ML TCL4 WATER			
W	GW32PPTCL	PST/PCB OLC03.2 TCL WATER			
W	SW32TCL	SVOC OLC03.2 TCL WATER			
W	MW7470HG	MERCURY ONLY 7470A WATER			
W	WW9012CN	CYANIDE 9010B/9012A WATER			
W	MW6010TAL	METAL 6010B TAL WATER			
782903	ACSGWPWB26	9/26/2005	9/27/2005	10/10/2005	**USE FOR QC**PPS1002/TCL4 8260 25ML, OLC3.2 SVOAS & PEST/PCBS, METALS & CN
W	VW82-25TC4	VOC 8260B 25ML TCL4 WATER			
W	GW32PPTCL	PST/PCB OLC03.2 TCL WATER			
W	MW6010TAL	METAL 6010B TAL WATER			
W	SW32TCL	SVOC OLC03.2 TCL WATER			
W	MW7470HG	MERCURY ONLY 7470A WATER			
W	QCW-32PP	QC-OLC03.2 PP WATER			
W	QCW-6010	QC-6010B METALS WATER			
W	QCW-7470HG	QC-7470 HG WATER			
W	QCW-9012CN	QC-9012 CYANIDE WATER			
W	QCW-826025	QC-8260B 25ML VOC WATER			
W	QCW-32SV	QC-OLC03.2 SVOC WATER			
W	WW9012CN	CYANIDE 9010B/9012A WATER			
782904	ACSGWPWT26	9/26/2005	9/27/2005	10/10/2005	PPS1002/TCL4 8260 25ML, OLC3.2 SVOAS & PEST/PCBS, METALS & CN

CompuChem

a division of Liberty Analytical Corp.

WORKORDER SUMMARY REPORT

Workorder: 7829 **Account:** MWH **Project:** ACS
SDG-Case: ACS **Status:** CLOSED **QC Type:** CLIENT SPECIFIC MS/MSD
Report Style: COMPUCHEM STYLE 9 WITH EDD AND CD

SAMPLE ID	CLIENT ID	COLLECT DATE	RECEIVE DATE	DUE DATE	COMMENTS
W	VW82-25TC4	VOC 8260B 25ML TCL4 WATER			
W	GW32PPTCL	PST/PCB OLC03.2 TCL WATER			
W	SW32TCL	SVOC OLC03.2 TCL WATER			
W	WW9012CN	CYANIDE 9010B/9012A WATER			
W	MW7470HG	MERCURY ONLY 7470A WATER			
W	MW6010TAL	METAL 6010B TAL WATER			
782905	ACSGWPWC26	9/26/2005	9/27/2005	10/10/2005	PPS1002/TCL4 8260 25ML, OLC3.2 SVOAS & PEST/PCBS, METALS & CN
W	VW82-25TC4	VOC 8260B 25ML TCL4 WATER			
W	GW32PPTCL	PST/PCB OLC03.2 TCL WATER			
W	SW32TCL	SVOC OLC03.2 TCL WATER			
W	MW7470HG	MERCURY ONLY 7470A WATER			
W	WW9012CN	CYANIDE 9010B/9012A WATER			
W	MW6010TAL	METAL 6010B TAL WATER			
782906	ACSGWPWTB26	9/26/2005	9/27/2005	10/10/2005	PPS1002/TCL4 8260 25ML;TRIP BLANK**
W	VW82-25TC4	VOC 8260B 25ML TCL4 WATER			
782907	ACSGWPWD26	9/26/2005	9/27/2005	10/10/2005	PPS1002/TCL4 8260 25ML, OLC3.2 SVOAS & PEST/PCBS, METALS & CN
W	VW82-25TC4	VOC 8260B 25ML TCL4 WATER			
W	GW32PPTCL	PST/PCB OLC03.2 TCL WATER			
W	SW32TCL	SVOC OLC03.2 TCL WATER			
W	MW6010TAL	METAL 6010B TAL WATER			
W	MW7470HG	MERCURY ONLY 7470A WATER			
W	WW9012CN	CYANIDE 9010B/9012A WATER			

CompuChem, a Division of Liberty Analytical

Extract Chain of Custody

Batch: 8031 Date: 9/27/2005

Department: Organic Extractions

Sample ID	Client ID	Product	Matrix	Hold Date
778903	X06G0	GW-PP-32X	W	9/27/2005
782901	ACSGWPWA26	GW32PPX	W	9/30/2005
782902	ACSGWPWDUP	GW32PPX	W	9/30/2005
782903	ACSGWPWB26	GW32PPX	W	10/3/2005
782904	ACSGWPWT26	GW32PPX	W	10/3/2005
782905	ACSGWPWC26	GW32PPX	W	10/3/2005
782907	ACSGWPWD26	GW32PPX	W	10/3/2005
81127	PBLKMA	GW32PPX	W	10/4/2005
81128	PMALCS	GW32PPX	W	10/4/2005
81129	ACSGWPWB26	GW32PPX	W	10/3/2005
81130	ACSGWPWB26	GW32PPX	W	10/3/2005

9.28.3

Relinquished By:	Received By:	Date/Time
R.B	GC#3	9-28-05 5:30
GC#3	KP	9-28-05 5:40pm
KP	GC#8	9-28-05 5:45pm

CompuChem, a Division of Liberty Analytical

Extract Chain of Custody

Batch: 8031 Date: 10/5/2005

Department: Organic Extractions

Sample ID	Client ID	Product	Matrix	Hold Date
778903	X06G0	GW-PP-32X	W	9/27/2005
782901	ACSGWPWA26	GW32PPX	W	9/30/2005
782902	ACSGWPWDUP	GW32PPX	W	9/30/2005
782903	ACSGWPWB26	GW32PPX	W	10/3/2005
782904	ACSGWPWT26	GW32PPX	W	10/3/2005
782905	ACSGWPWC26	GW32PPX	W	10/3/2005
782907	ACSGWPWD26	GW32PPX	W	10/3/2005
81127	PBLKMA	GW32PPX	W	10/4/2005
81128	PMALCS	GW32PPX	W	10/4/2005
81129	ACSGWPWB26	GW32PPX	W	10/3/2005
81130	ACSGWPWB26	GW32PPX	W	10/3/2005

10-5-1

Relinquished By:	Received By:	Date/Time
GC#3	GC Refrig #3	10/3/05 7:45
VP	VP	10/5/05 11:00pm
	GC#3	10/5/05 11:10pm

E. Pesticide/Aroclor Data

1. Q C Summary
2. Sample Data
3. Standards Data
4. Raw Q C Data
5. Raw Florisil Data

LAB CODE : LIBRTY CONTRACT # : OLC03-REVS

CASE # : _____ SDG # : 7829

1. Pesticide/Aroclor Q C Summary

a. Surrogate Percent Recovery Summary (Form II LCP)

b. Matrix Spike/Matrix Spike Duplicate Recovery
(Form III LCP-1)

c. Laboratory Control Sample Recovery
(Form III LCP-2)

d. Method Blank Summary (Form IV LCP)

a. Surrogate Percent Recovery Summary

(Form II LCP)

2LCE

LOW CONCENTRATION WATER PESTICIDE SURROGATE RECOVERY

Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

GC Column(1):CLPEST ID:0.53(MM) GC Column(2):CLPEST2 ID:0.53(MM)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	PBLKMA	87	92	94	100			0
02	PMALCS	85	87	102	100			0
03	ACSGWPWB26MS	80	101	115	93			0
04	ACSGWPWB26MS	78	87	110	82			0
05	ACSGWPWB26	79	83	107	87			0
06	ACSGWPWA26	101	97	88	84			0
07	ACSGWPWDUP26	113	92	98	90			0
08	ACSGWPWT26	91	80	82	77			0
09	ACSGWPWC26	89	83	79	79			0
10	ACSGWPWD26	73	73	106	80			0
11	PBLKAM	74	86	95	80			0
12	PLCSAM	84	90	88	68			0
13	ACSGWPWB26RE	107	97	96	86			0
14	ACSGWPWB26RE	78	100	80	77			0
15	ACSGWPWA26RE	91	96	83	87			0
16	ACSGWPWDUP26	64	79	84	102			0
17	ACSGWPWB26RE	69	84	76	77			0
18	ACSGWPWT26RE	65	84	90	106			0
19	ACSGWPWC26RE	62	74	84	85			0
20	ACSGWPWD26RE	71	72	91	98			0
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

		QC LIMITS
TCX	= Tetrachloro-m-xylene	(30-150)
DCB	= Decachlorobiphenyl	(30-150)

\# Column to be used to flag recovery values

* Values outside of QC limits

D Surrogate diluted out

b. Matrix Spike/Matrix Spike Duplicate Recovery
(Form III LCP-1)

3LCC
LOW CONCENTRATION WATER PESTICIDE
MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Matrix Spike - EPA Sample No.: ACSGWPWB26

Instrument ID: TRACEGC80 GC Column: CLPEST ID: 0.53(MM)

COMPOUND	SPIKE ADDED (UG/L)	SAMPLE CONCENTRATION (UG/L)	MS CONCENTRATION (UG/L)	MS % REC #	QC. LIMITS REC.
gamma-BHC (Lindane)	0.093	0.0	0.073	78	56-123
Heptachlor	0.093	4.4	4.3	-108 *	40-131
Aldrin	0.093	0.0	0.072	77	40-120
Dieldrin	0.19	0.0	0.16	84	52-126
Endrin	0.19	0.0	0.17	89	56-121
4,4'-DDT	0.19	0.0	0.15	79	38-127

COMPOUND	SPIKE ADDED (UG/L)	MSD CONCENTRATION (UG/L)	MSD % REC #	RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC (Lindane)	0.093	0.069	74	5	15	56-123
Heptachlor	0.093	3.8	-645*	-143	20	40-131
Aldrin	0.093	0.070	75	3	22	40-120
Dieldrin	0.19	0.15	79	6	18	52-126
Endrin	0.19	0.16	84	6	21	56-121
4,4'-DDT	0.19	0.14	74	7	27	38-127

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

* Values outside of QC limits

RPD: 0 out of 6 outside limits
Spike Recovery: 2 out of 12 outside limits

COMMENTS: _____

3LCC
LOW CONCENTRATION WATER PESTICIDE
MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Matrix Spike - EPA Sample No.: ACSGWPWB26

Instrument ID: TRACEGC81 GC Column: CLPEST2 ID: 0.53(MM)

COMPOUND	SPIKE ADDED (UG/L)	SAMPLE CONCENTRATION (UG/L)	MS CONCENTRATION (UG/L)	MS % REC #	QC. LIMITS REC.
gamma-BHC (Lindane)	0.093	0.0	0.070	75	56-123
Heptachlor	0.093	0.0	0.069	74	40-131
Aldrin	0.093	0.0	0.070	75	40-120
Dieldrin	0.19	0.012	0.15	73	52-126
Endrin	0.19	0.0	0.16	84	56-121
4,4'-DDT	0.19	0.0072	0.13	65	38-127

COMPOUND	SPIKE ADDED (UG/L)	MSD CONCENTRATION (UG/L)	MSD % REC #	RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC (Lindane)	0.093	0.069	74	1	15	56-123
Heptachlor	0.093	0.070	75	1	20	40-131
Aldrin	0.093	0.068	73	3	22	40-120
Dieldrin	0.19	0.14	67	9	18	52-126
Endrin	0.19	0.15	79	6	21	56-121
4,4'-DDT	0.19	0.13	65	0	27	38-127

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

* Values outside of QC limits

RPD: 0 out of 6 outside limits
Spike Recovery: 0 out of 12 outside limits

COMMENTS: _____

3LCC
LOW CONCENTRATION WATER PESTICIDE
MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Matrix Spike - EPA Sample No.: ACSGWPWB26R

Instrument ID: TRACEGC82 GC Column: CLPEST ID: 0.53(MM)

COMPOUND	SPIKE ADDED (UG/L)	SAMPLE CONCENTRATION (UG/L)	MS CONCENTRATION (UG/L)	MS % REC #	QC. LIMITS REC.
gamma-BHC (Lindane)	0.10	0.0076	0.092	84	56-123
Heptachlor	0.10	0.0	0.0	0 *	40-131
Aldrin	0.10	0.0	0.080	80	40-120
Dieldrin	0.20	0.0	0.16	80	52-126
Endrin	0.20	0.0	0.18	90	56-121
4,4'-DDT	0.20	0.0	0.14	70	38-127

COMPOUND	SPIKE ADDED (UG/L)	MSD CONCENTRATION (UG/L)	MSD % REC #	RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC (Lindane)	0.10	0.082	74	13	15	56-123
Heptachlor	0.10	0.0	0*		20	40-131
Aldrin	0.10	0.069	69	15	22	40-120
Dieldrin	0.20	0.16	80	0	18	52-126
Endrin	0.20	0.19	95	5	21	56-121
4,4'-DDT	0.20	0.15	75	7	27	38-127

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

* Values outside of QC limits

RPD: 0 out of 6 outside limits
Spike Recovery: 2 out of 12 outside limits

COMMENTS: _____

3LCC
LOW CONCENTRATION WATER PESTICIDE
MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Matrix Spike - EPA Sample No.: ACSGWPWB26R

Instrument ID: TRACEGC83 GC Column: CLPEST2 ID: 0.53(MM)

COMPOUND	SPIKE ADDED (UG/L)	SAMPLE CONCENTRATION (UG/L)	MS CONCENTRATION (UG/L)	MS % REC #	QC. LIMITS REC.
gamma-BHC (Lindane)	0.10	0.0	0.094	94	56-123
Heptachlor	0.10	0.0	0.089	89	40-131
Aldrin	0.10	0.0	0.082	82	40-120
Dieldrin	0.20	0.026	0.22	97	52-126
Endrin	0.20	0.0090	0.21	101	56-121
4,4'-DDT	0.20	0.0062	0.18	87	38-127

COMPOUND	SPIKE ADDED (UG/L)	MSD CONCENTRATION (UG/L)	MSD % REC #	RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC (Lindane)	0.10	0.094	94	0	15	56-123
Heptachlor	0.10	0.087	87	2	20	40-131
Aldrin	0.10	0.085	85	4	22	40-120
Dieldrin	0.20	0.20	87	11	18	52-126
Endrin	0.20	0.20	96	5	21	56-121
4,4'-DDT	0.20	0.17	82	6	27	38-127

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

* Values outside of QC limits

RPD: 0 out of 6 outside limits
Spike Recovery: 0 out of 12 outside limits

COMMENTS: _____

c. Laboratory Control Sample Recovery (Form III LCP-2)

3LCD
LOW CONCENTRATION WATER PESTICIDE LAB CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.

PMALCS

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 81128 LCS Lot No: 43388

LCS Aliquot: 1000.0(UL) Date Extracted: 09/28/2005

Concentrated Extract Volume: 2000(UL) Date Analyzed: 10/01/2005

Injection Volume: 1.0(UL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N

Instrument ID: TRACEGC80 GC Column: CLPEST ID: 0.53(MM)

COMPOUND	AMOUNT ADDED ()	AMOUNT RECOVERED ()	%REC #	QC LIMITS
gamma-BHC (Lindane)	0.10	0.086	86	50-120
Heptachlor epoxide	0.10	0.089	89	50-150
Dieldrin	0.20	0.18	90	30-130
4,4'-DDE	0.20	0.20	100	50-150
Endrin	0.20	0.20	100	50-120
Endosulfan sulfate	0.20	0.15	75	50-120
gamma-Chlordane	0.10	0.093	93	30-130

Instrument ID: TRACEGC81 GC Column: CLPEST2 ID: 0.53(MM)

COMPOUND	AMOUNT ADDED ()	AMOUNT RECOVERED ()	%REC #	QC LIMITS
gamma-BHC (Lindane)	0.10	0.084	84	50-120
Heptachlor epoxide	0.10	2.6	2600*	50-150
Dieldrin	0.20	0.16	80	30-130
4,4'-DDE	0.20	0.18	90	50-150
Endrin	0.20	0.18	90	50-120
Endosulfan sulfate	0.20	0.15	75	50-120
gamma-Chlordane	0.10	0.087	87	30-130

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

LCS Recovery: 1 outside limits out of 14 total.

COMMENTS: _____

3LCD
LOW CONCENTRATION WATER PESTICIDE LAB CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.

PLCSAM

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 81128R LCS Lot No: 43388

LCS Aliquot: 500.0(UL) Date Extracted: 10/05/2005

Concentrated Extract Volume: 1000(UL) Date Analyzed: 10/06/2005

Injection Volume: 1.0(UL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N

Instrument ID: TRACEGC82 GC Column: CLPEST ID: 0.53(MM)

COMPOUND	AMOUNT ADDED ()	AMOUNT RECOVERED ()	%REC #	QC LIMITS
gamma-BHC (Lindane)	0.10	0.10	100	50-120
Heptachlor epoxide	0.10	0.088	88	50-150
Dieldrin	0.20	0.17	85	30-130
4,4'-DDE	0.20	0.19	95	50-150
Endrin	0.20	0.22	110	50-120
Endosulfan sulfate	0.20	0.15	75	50-120
gamma-Chlordane	0.10	0.096	96	30-130

Instrument ID: TRACEGC83 GC Column: CLPEST2 ID: 0.53(MM)

COMPOUND	AMOUNT ADDED ()	AMOUNT RECOVERED ()	%REC #	QC LIMITS
gamma-BHC (Lindane)	0.10	0.12	120	50-120
Heptachlor epoxide	0.10	0.14	140	50-150
Dieldrin	0.20	0.23	115	30-130
4,4'-DDE	0.20	0.22	110	50-150
Endrin	0.20	0.24	120	50-120
Endosulfan sulfate	0.20	0.17	85	50-120
gamma-Chlordane	0.10	0.10	100	30-130

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

LCS Recovery: 0 outside limits out of 14 total.

COMMENTS: _____

FORM III LCP-2 OLC03.2

d. Method Blank Summary (Form IV LCP)

If more than a single form is necessary, forms shall be arranged in chronological order by date of analysis of the blanks.

4LCC
LOW CONCENTRATION WATER
PESTICIDE METHOD BlANK SUMMARY

EPA SAMPLE NO.

PBLKMA

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Date Extracted: 09/28/2005 Lab Sample ID: 81127

Date Analyzed (1): 10/01/2005 Date Analyzed (2): 10/01/200

Time Analyzed (1): 1552 Time Analyzed (2): 1552

Instrument ID (1): TRACEGC80 Instrument ID (2): TRACEGC81

GC Column (1): CLPEST ID: 0.53(MM) GC Column (2): CLPEST2 ID: 0.53(MM)

Sulfur Cleanup (Y/N) N Extraction: (Sepf/Cont) SEPF

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLE ANALYSES:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	PMALCS	81128	10/01/2005	10/01/2005
02	ACSGWPWB26MS	81129	10/01/2005	10/01/2005
03	ACSGWPWB26MS	81130	10/01/2005	10/01/2005
04	ACSGWPWB26	782903	10/01/2005	10/01/2005
05	ACSGWPWA26	782901	10/01/2005	10/01/2005
06	ACSGWPWDUP26	782902	10/01/2005	10/01/2005
07	ACSGWPWT26	782904	10/01/2005	10/01/2005
08	ACSGWPWC26	782905	10/01/2005	10/01/2005
09	ACSGWPWD26	782907	10/01/2005	10/01/2005
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS: _____

4LCC
LOW CONCENTRATION WATER
PESTICIDE METHOD BlANK SUMMARY

EPA SAMPLE NO.

PBLKAM

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Date Extracted: 10/05/2005 Lab Sample ID: 81127R

Date Analyzed (1): 10/06/2005 Date Analyzed (2): 10/06/200

Time Analyzed (1): 1557 Time Analyzed (2): 1557

Instrument ID (1): TRACEGC82 Instrument ID (2): TRACEGC83

GC Column (1): CLPEST ID: 0.53(MM) GC Column (2): CLPEST2 ID: 0.53(MM)

Sulfur Cleanup (Y/N) N Extraction: (Sepf/Cont) SEPF

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLE ANALYSES:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	PLCSAM	81128R	10/06/2005	10/06/2005
02	ACSGWPWB26RE	81129	10/06/2005	10/06/2005
03	ACSGWPWB26RE	81130	10/06/2005	10/06/2005
04	ACSGWPWA26RE	782901R	10/06/2005	10/06/2005
05	ACSGWPWDUP26	782902R	10/06/2005	10/06/2005
06	ACSGWPWB26RE	782903R	10/06/2005	10/06/2005
07	ACSGWPWT26RE	782904R	10/06/2005	10/06/2005
08	ACSGWPWC26RE	782905R	10/06/2005	10/06/2005
09	ACSGWPWD26RE	782907R	10/06/2005	10/06/2005
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS:

2. Pesticide/Aroclor Sample Data

Sample data shall be arranged in packets with the Organic Analysis Data Sheet (Form I LCP), followed by the raw data for pesticide samples. These sample packets shall be placed in increasing EPA sample number order, considering both letters and numbers.

a. Target Compound List (TCL) Analyte Results (Form I LCP)

Tabulated results (identification and quantitation) shall be included.

b. Copies of Pesticide Chromatograms

Positively identified compounds shall be labeled with the names of compounds, either directly out from the peak on the chromatogram, or on a printout of retention times on the data system printout if retention times are printed over the peak on the chromatogram. Include for each sample or sample extract, including dilutions and reanalyses. The Chromatogram shall contain the following header information: EPA sample number, volume injected (μL), date and time of injection, GC column ID (by stationary phase and internal diameter), GC instrument ID, and the scaling factor.

c. Copies of Pesticide Chromatograms from the Second Column

d. Data System Printout

A printout of retention time and corresponding peak height or peak area shall accompany each chromatogram. Where edits have been made, initialing, dating and integration time range are required.

e. Manual Worksheets

1LCE
LOW CONCENTRATION WATER PESTICIDE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

ACSGWPWA26

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 782901 Date Received: 09/26/2005

Sample Volume: 1075(ML) Date Extracted: 09/28/2005

Concentrated Extract Volume: 2000(UL) Date Analyzed: 10/01/2005

Injection Volume: 1.0(UL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N Extraction: (Sepf/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

Data File: /chem/tracego80.i/d050930d0LC03.b/069d782901.d

Date : 01-OCT-2005 17:41

Client ID: ACSGMPWA26

Instrument: tracego80.i

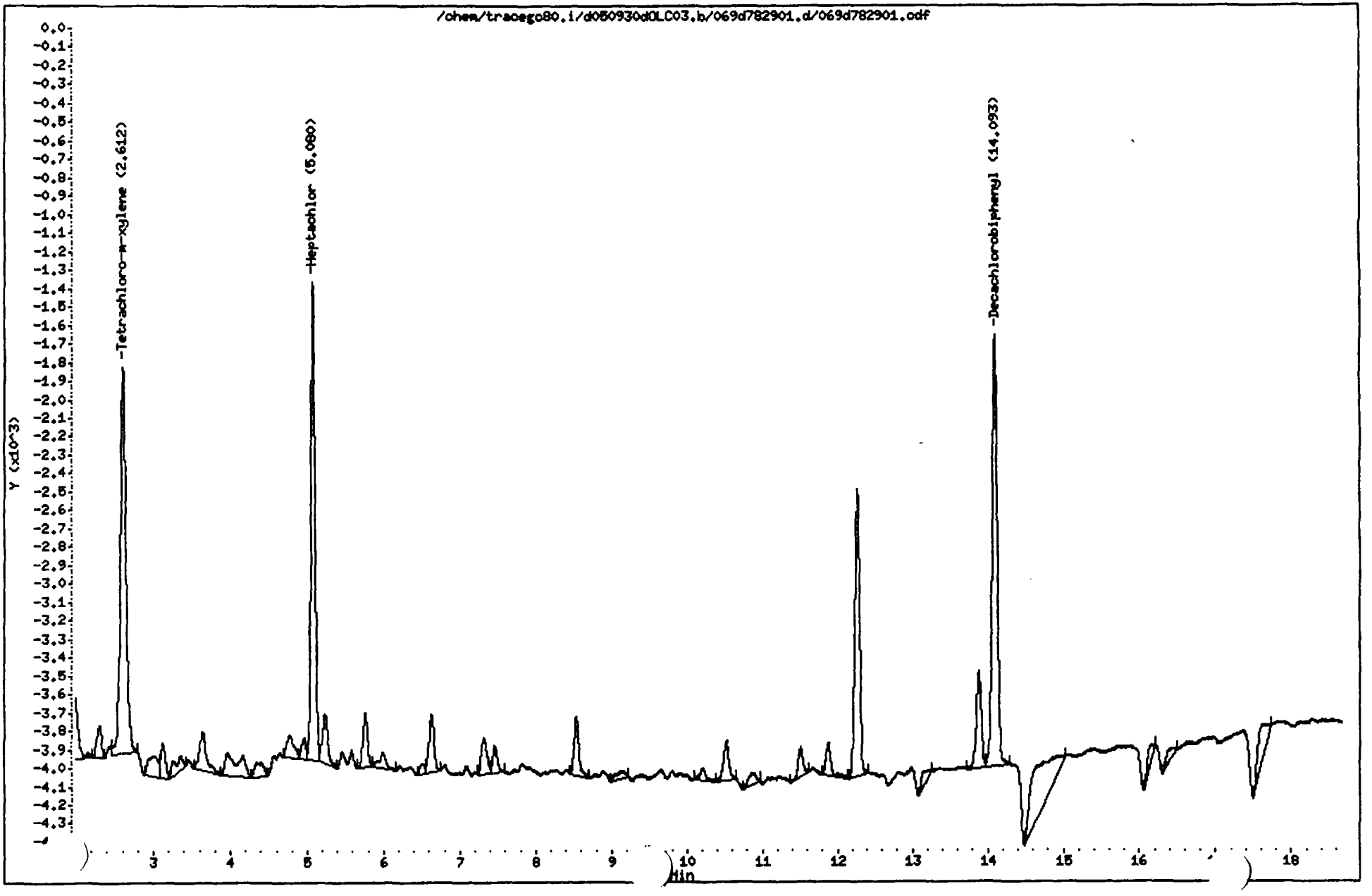
Sample Info: 782901

Volume Injected (uL): 1.0

Operator: 2461

Column phase: clpest

Column diameter: 0.53



CompuChem Environmental Corporation

Lab Smp Id : 782901 Client Smp Id : ACSGWPWA26
Sample Type : SAMPLE Sublist : olm03
Inj Date : 01-OCT-2005 17:41 Inst ID : TRACEGC80
Operator : 2461
Method : /chem/tracegc80.i/d050930dOLC03.b/olc03_clpest_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 2000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1075.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
0.13			814								
0.63			4859								
0.70			29725								
1.06			5193								
1.39			1792								
1.88			2083								
1.96			3955								
2.31			752								
2.61	2.55	2.65	10404	513950	Tetrachloro-m-xylene	0.020243	0.037662		101.2	30 - 150	
3.03			1012								
3.13			800								
3.27			638								
3.64			1354								
3.97			1651								
4.36			636								
4.77			833								
4.96			444								
5.08	5.00	5.10	9375	784550	Heptachlor	0.011948	0.022229	0.010000			
5.23			1307								
5.77			1244								
6.00			522								
6.50			279								
6.63			1430								
7.31			1012								
7.46			595								
8.54			1397								
9.06			335								
10.22			387								
10.52			1077								
10.88			475								
11.51			738								
11.87			855								
12.26			7389								
13.26			493								
13.88			2442								
14.09	13.99	14.19	10891	615700	Decachlorobiphenyl	0.017687	0.032906		88.4	30 - 150	
14.98			5423								

CompuChem Environmental Corporation

Lab Smp Id : 782901 Client Smp Id : ACSGWPWA26
Sample Type : SAMPLE Sublist : olm03
Inj Date : 01-OCT-2005 17:41 Inst ID :
Operator : 2461
Method : /chem/tracegc80.i/d050930dOLC03.b/olc03_clpest_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 2000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1075.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
16.18		536								
16.46		476								
17.72		1644								

Data File: /chem/tracego81.i/d050930d0LC03.b/069d782901.d

Date : 01-OCT-2005 17:41

Client ID: ACSGWPWA26

Instrument: tracego81.i

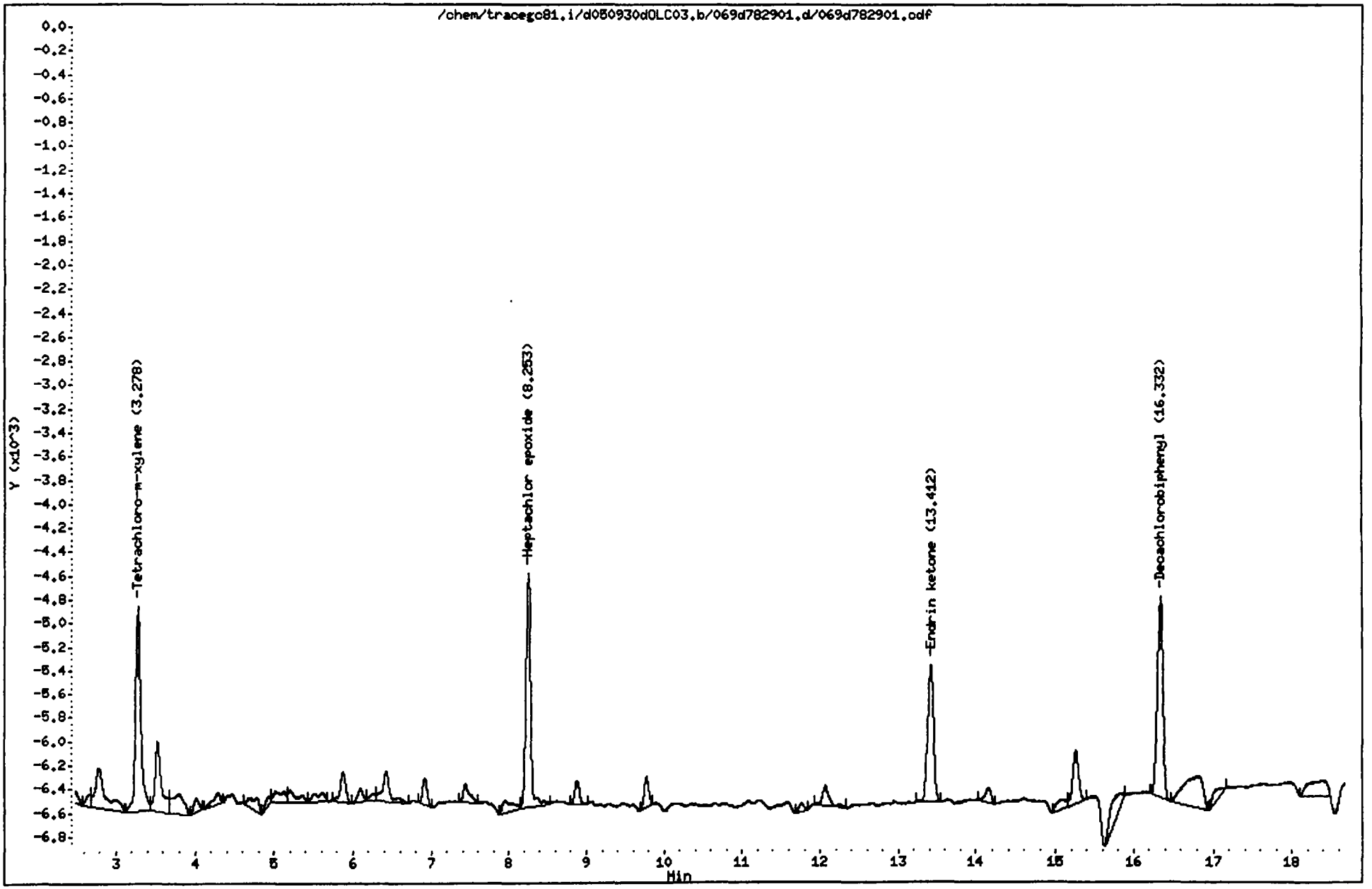
Sample Info: 782901

Volume Injected (uL): 1.0

Operator: 2461

Column phase: clpest2

Column diameter: 0.53



CompuChem Environmental Corporation

Lab Smp Id : 782901 Client Smp Id : ACSGWPWA26
Sample Type : SAMPLE Sublist : olm03
Inj Date : 01-OCT-2005 17:41 Inst ID : TRACEGC81
Operator : 2461
Method : /chem/tracegc81.i/d050930dOLC03.b/olc03_clpest2_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 2000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1075.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
0.12			893								
0.67			43764								
0.94			447								
1.13			2824								
1.38			870								
1.63			1607								
2.10			4102								
2.26			2665								
2.67			470								
2.79			2926								
3.28	3.22	3.32	8224	423700	Tetrachloro-m-xylene	0.019408	0.036107		97.0	30 - 150	
3.53			3426								
3.80			1768								
4.02			548								
4.29			623								
9			855								
3			375								
5.04			889								
5.20			826								
5.52			676								
5.88			1179								
6.10			559								
6.27			347								
6.43			1784								
6.92			915								
7.44			843								
7.95			945								
8.25	8.19	8.33	8001	530250	Heptachlor epoxide	0.015089	0.028073	0.010000			
8.88			832								
9.77			1070								
11.76			317								
12.07			1047								
13.41	13.28	13.42	6124	414175	Endrin ketone	0.014786	0.027509	0.020000			
14.15			623								
15.09			657								
15.26			2361								
15.82			1882								

CompuChem Environmental Corporation

Lab Smp Id : 782901 Client Smp Id : ACSGWPWA26
Sample Type : SAMPLE Sublist : olm03
Inj Date : 01-OCT-2005 17:41 Inst ID :
Operator : 2461
Method : /chem/tracegc81.i/d050930dOLC03.b/olc03_clpest2_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 2000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1075.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
16.33	16.23 16.43	8124	482325	Decachlorobiphenyl	0.016841	0.031333		84.2	30 - 150	
16.82		4229								
17.15		772								
18.36		2105								

1LCE
LOW CONCENTRATION WATER PESTICIDE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

ACSGWPWA26RE

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 782901R Date Received: 09/26/2005

Sample Volume: 500(ML) Date Extracted: 10/05/2005

Concentrated Extract Volume: 1000(UL) Date Analyzed: 10/06/2005

Injection Volume: 1.0(UL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N Extraction: (Sepf/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

Data File: /chem/tracego82.i/m051005c0LC03.b/062m782901.d

Date : 06-OCT-2005 18:05

Client ID: ACSGWPWA26RE

Instrument: tracego82.i

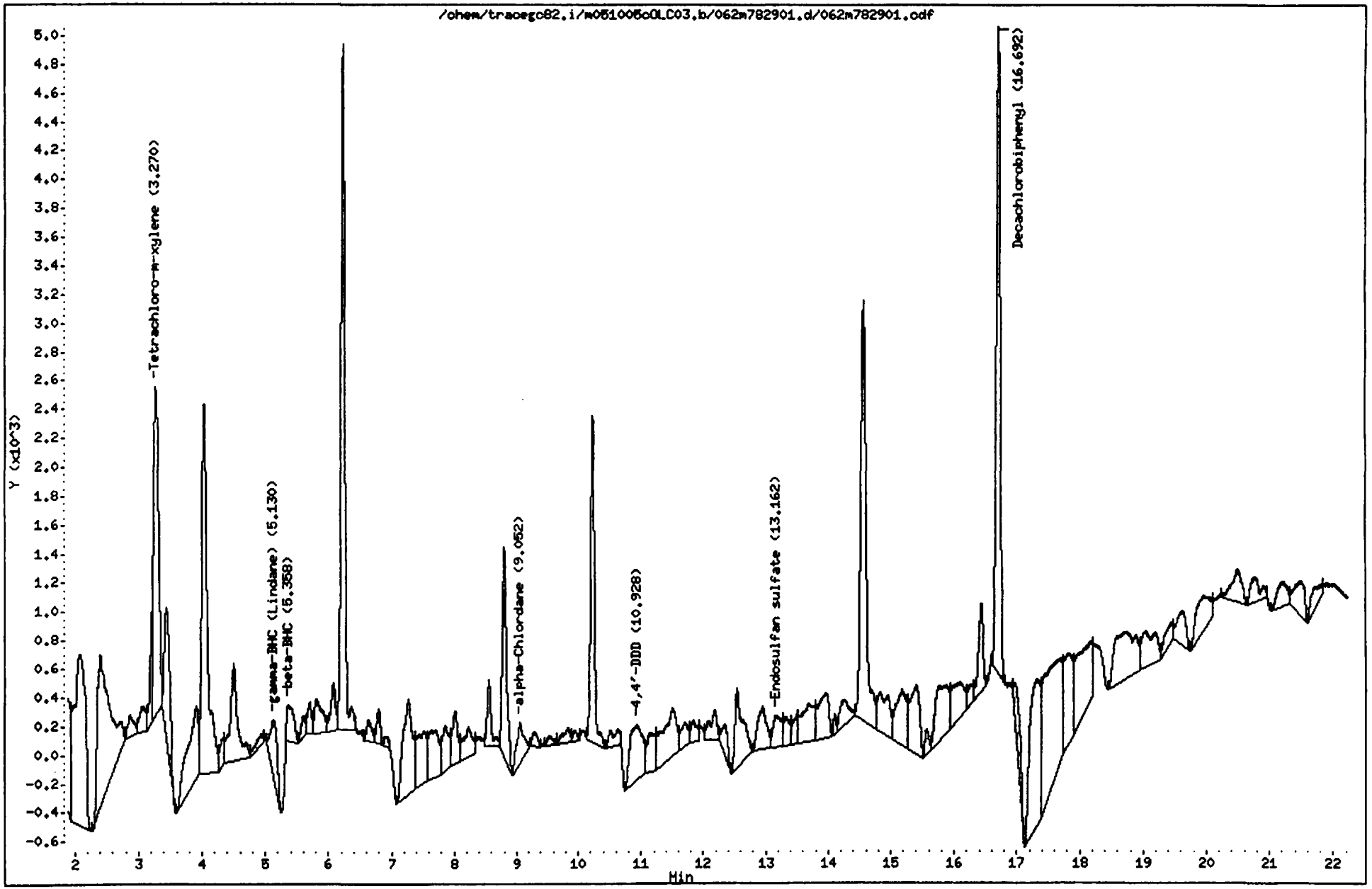
Sample Info: 782901R

Volume Injected (uL): 1.0

Operator: 2461

Column phase: olpest

Column diameter: 0.53



CompuChem Environmental Corporation

Lab Smp Id : 782901R Client Smp Id : ACSGWPWA26RE
Sample Type : SAMPLE Sublist : olm03
Inj Date : 06-OCT-2005 18:05 Inst ID : TRACEGC82
Operator : 2461
Method : /chem/tracegc82.i/m051005cOLC03.b/olc03_clpest_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 500.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
0.14			3634								
0.31			1976								
0.72			21389								
0.89			949169								
1.32			25317								
1.44			24820								
1.71			21542								
2.08			14633								
2.40			14238								
2.87			1046								
3.06			1228								
3.22			1923								
3.27	3.21	3.31	13035	719050	Tetrachloro-m-xylene	0.018127	0.036253		90.6	30 - 150	M
3.44			5390								
			6482								
			16004								
4.33			1018								
4.50			5669								
4.92			636								
5.13	5.05	5.15	2892	1121350	gamma-BHC (Lindane)	0.002578	0.005156	0.010000			J
5.36	5.30	5.40	1981	520750	beta-BHC	0.003804	0.007608	0.010000			JM
5.60			661								
5.70			961								
5.81			2050								
6.08			1729								
6.22			19809								
6.63			873								
6.79			1345								
7.26			6930								
7.52			3940								
7.63			3801								
7.86			2330								
8.01			2338								
8.23			1980								
8.54			2124								
8.79			6882								
9.05	8.93	9.07	2372	981750	alpha-Chlordane	0.002416	0.004832	0.010000			J

CompuChem Environmental Corporation

Lab Smp Id : 782901R Client Smp Id : ACSGWPWA26RE
Sample Type : SAMPLE Sublist : olm03
Inj Date : 06-OCT-2005 18:05 Inst ID :
Operator : 2461
Method : /chem/tracegc82.i/m051005cOLC03.b/olc03_clpest_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 500.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
9.30		627								
9.52		406								
9.76		760								
9.96		313								
10.22		9453								
10.52		1102								
10.93	10.84 10.98	5518	709125	4,4'-DDD	0.007780	0.015560	0.020000			J
11.15		2392								
11.50		5415								
11.70		1367								
11.84		1098								
12.08		1609								
12.34		1419								
12.54		4755								
12.95		2871								
13.16		2070								
13.32		1176								
13.49		1242								
13.69		3644								
13.96		3675								
14.10		398								
14.26		1727								
14.54		17952								
14.82		3592								
15.17		4413								
15.40		4901								
15.56		717								
15.77		5032								
16.09		3634								
16.28		814								
16.42		3276								
16.69	16.57 16.77	19656	1191025	Decachlorobiphenyl	0.016503	0.033005		82.5	30 - 150	M
16.97		2394								
17.31		11742								
17.70		17040								
17.84		6137								
18.17		8409								

CompuChem Environmental Corporation

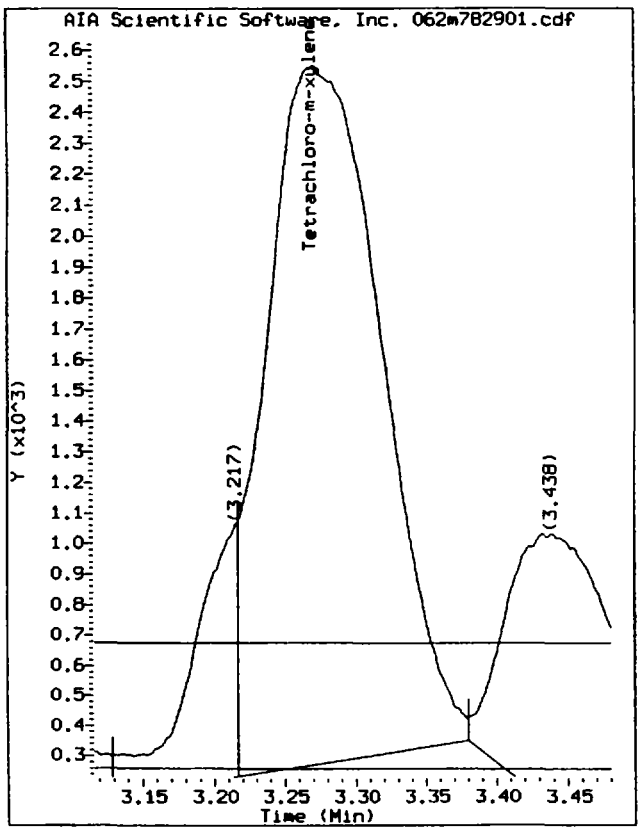
Lab Smp Id : 782901R Client Smp Id : ACSGWPWA26RE
Sample Type : SAMPLE Sublist : olm03
Inj Date : 06-OCT-2005 18:05 Inst ID :
Operator : 2461
Method : /chem/tracegc82.i/m051005cOLC03.b/olc03_clpest_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

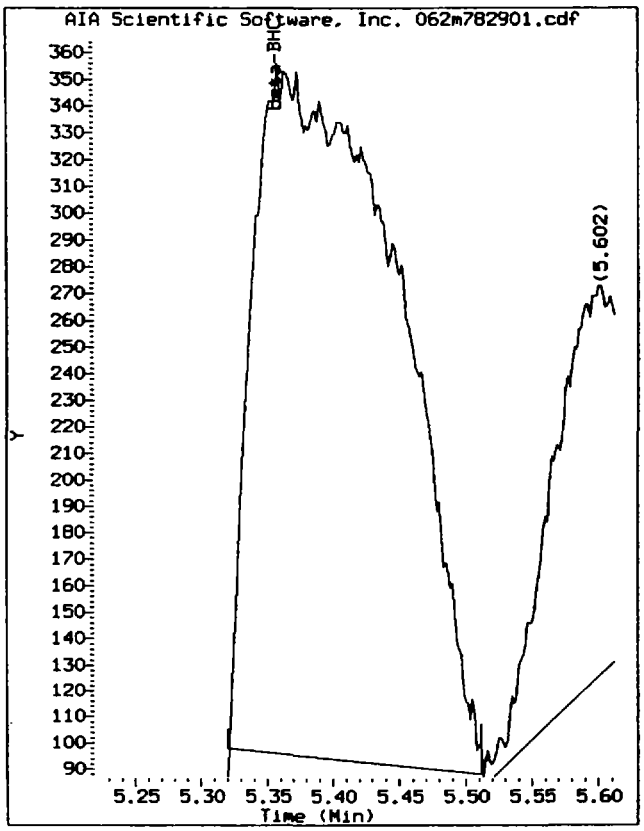
DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 500.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
18.74		7626								
19.02		3608								
19.43		1340								
19.58		2348								
19.96		3591								
20.49		2536								
20.79		1849								
21.20		1918								
21.50		2581								
21.80		1440								

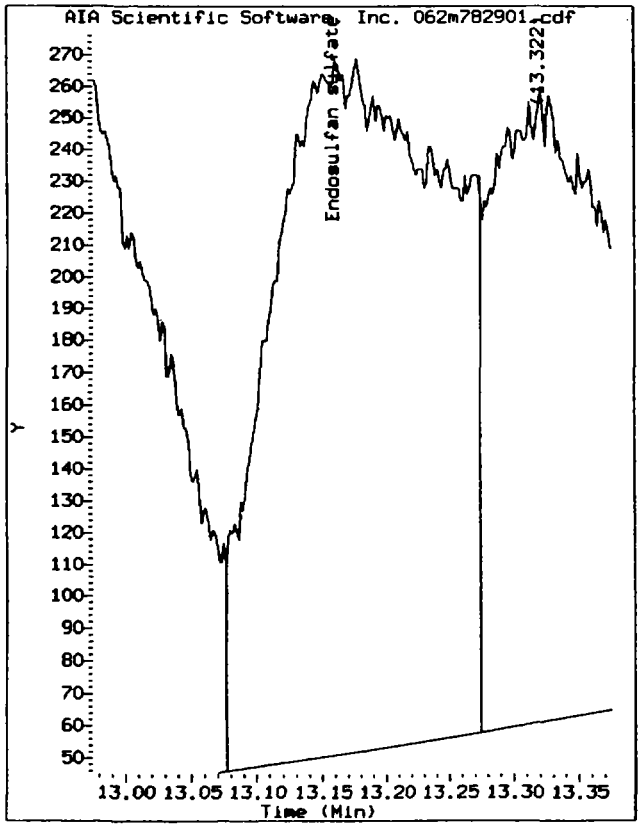
Manually Integrated Peaks



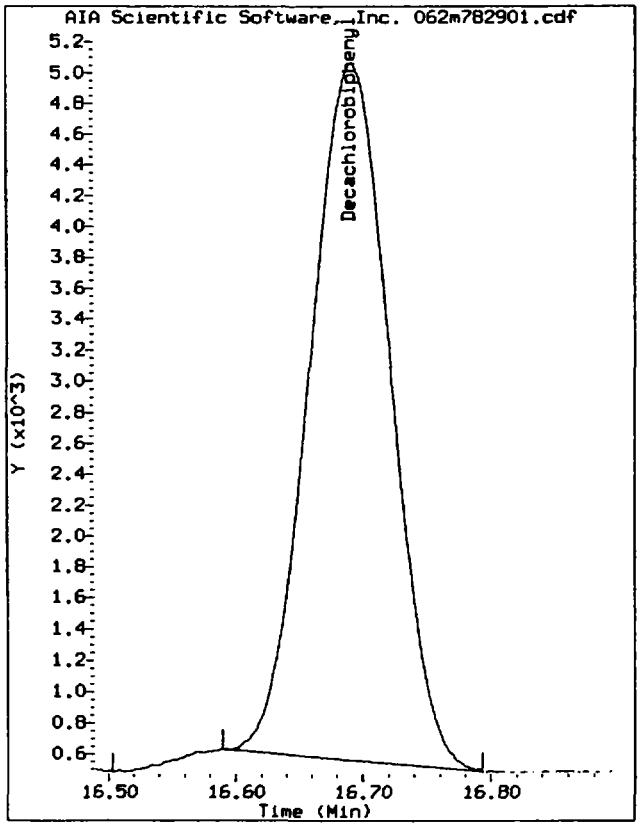
Start: 3.22 Stop: 3.38



Start: 5.32 Stop: 5.51



Start: 13.08 Stop: 13.28



Start: 16.59 Stop: 16.79

Data File: /chem/tracego83.i/m051005o0LC03.b/062m782901.d

Page 1

Date : 06-OCT-2005 18:05

Client ID: ACSGMPWA26RE

Instrument: tracego83.i

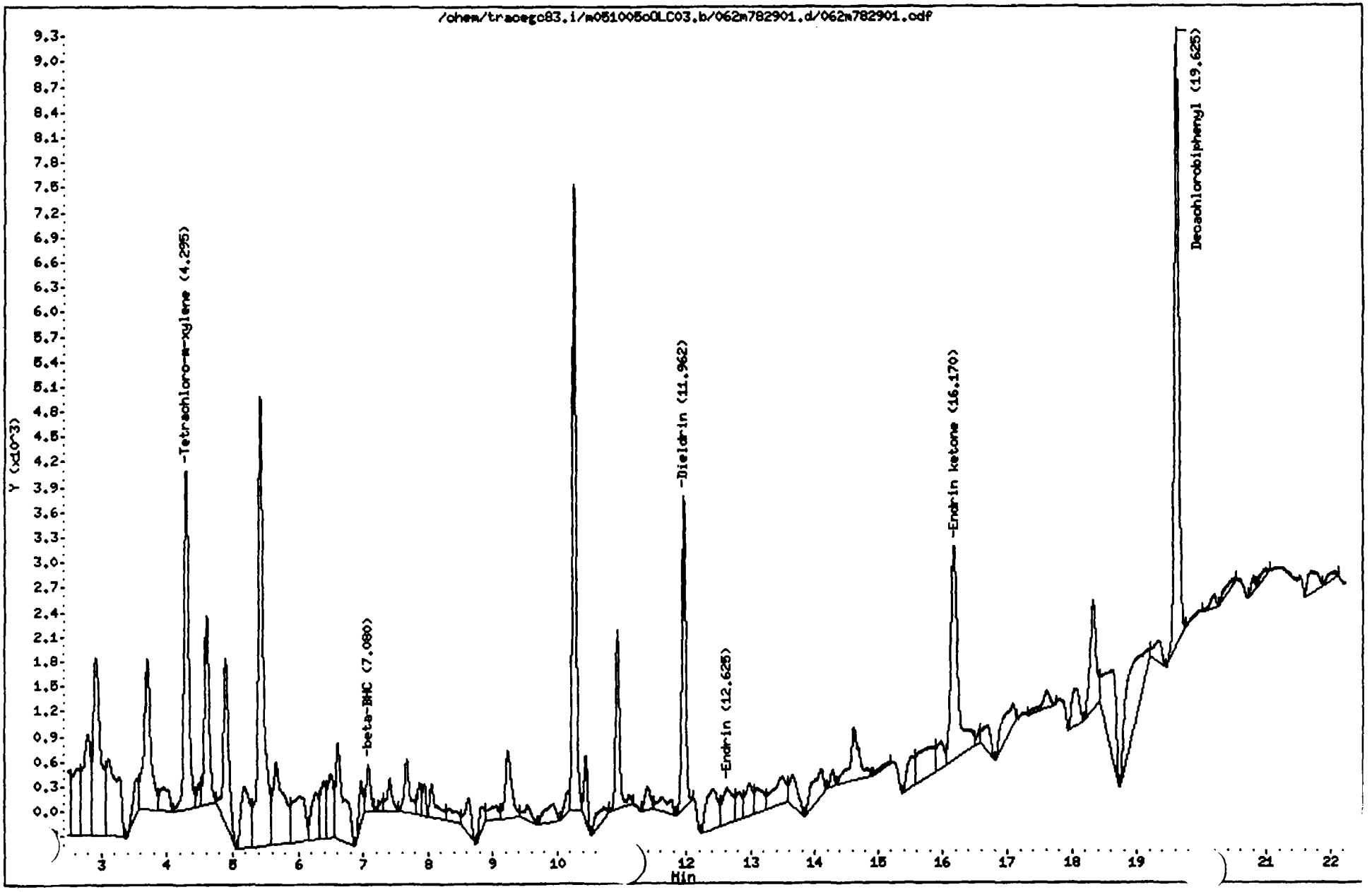
Sample Info: 782901R

Volume Injected (uL): 1.0

Operator: 2461

Column phase: olpest2

Column diameter: 0.53



CompuChem Environmental Corporation

Lab Smp Id : 782901R Client Smp Id : ACSGWPWA26RE
Sample Type : SAMPLE Sublist : olm03
Inj Date : 06-OCT-2005 18:05 Inst ID : TRACEGC83
Operator : 2461
Method : /chem/tracegc83.i/m051005cOLC03.b/olc03_clpest2_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 500.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
0.15			11347								
0.91			1748961								
1.36			19639								
1.54			38967								
1.67			30753								
1.88			21736								
2.29			19610								
2.64			6729								
2.80			9927								
2.92			16256								
3.11			11596								
3.54			2566								
3.71			13224								
3.94			2777								
4.30	4.23	4.33	20542	1069850	Tetrachloro-m-xylene	0.019201	0.038402		96.0	30 - 150	
4.50			1264								
4.61			11391								
4.90			11154								
5.18			6726								
5.43			31879								
5.67			11278								
6.02			7605								
6.27			4204								
6.39			4399								
6.49			4686								
6.62			10646								
6.97			2255								
7.08			2495								
7.16			159								
7.30			568								
7.41			2234								
7.67			3781								
7.87			1633								
7.94			1423								
8.05			2883								
8.34			1626								
8.63			2834								

CompuChem Environmental Corporation

Lab Smp Id : 782901R Client Smp Id : ACSGWPWA26RE
Sample Type : SAMPLE Sublist : olm03
Inj Date : 06-OCT-2005 18:05 Inst ID :
Operator : 2461
Method : /chem/tracegc83.i/m051005cOLC03.b/olc03_clpest2_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 500.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
8.83		1665								
9.01		1737								
9.23		5583								
9.54		1454								
9.93		2556								
10.16		1187								
10.26		28342								
10.44		3019								
10.72		1891								
10.93		9311								
11.39		1728								
11.63		2204								
11.96	11.83 11.97	15136	1848950	Dieldrin	0.008186	0.016373	0.020000			J
12.40		5769								
[illegible]2	12.58 12.72	4789	1510625	Endrin	0.003170	0.006339	0.020000			J
		2300								
[illegible]8		2854								
13.10		2890								
13.49		4551								
13.64		3481								
14.09		4371								
14.29		844								
14.63		6626								
15.19		507								
15.57		3134								
15.78		6260								
15.96		2563								
16.17	16.09 16.23	20387	1712350	Endrin ketone	0.011905	0.023811	0.020000			
16.56		580								
16.69		2414								
16.99		4528								
17.60		1829								
18.06		3501								
18.33		8407								
18.62		11769								
19.20		15205								
19.32		2228								

CompuChem Environmental Corporation

Lab Smp Id : 782901R Client Smp Id : ACSGWPWA26RE
Sample Type : SAMPLE Sublist : olm03
Inj Date : 06-OCT-2005 18:05 Inst ID :
Operator : 2461
Method : /chem/tracegc83.i/m051005cOLC03.b/olc03_clpest2_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 500.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
19.62	19.51 19.71	34479	1977350	Decachlorobiphenyl	0.017436	0.034873		87.2	30 - 150	
20.19		925								
20.51		1057								
20.80		631								
21.00		868								
21.71		2851								
22.01		934								

1LCE
LOW CONCENTRATION WATER PESTICIDE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

ACSGWPWB26

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 782903 Date Received: 09/27/2005

Sample Volume: 1100(ML) Date Extracted: 09/28/2005

Concentrated Extract Volume: 2000(UL) Date Analyzed: 10/01/2005

Injection Volume: 1.0(UL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N Extraction: (Sepf/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

Data File: /chem/tracego80.i/d050930d0LC03.b/068d782903.d

Date : 01-OCT-2005 17:19

Client ID: ACSGWPWB26

Instrument: tracego80.i

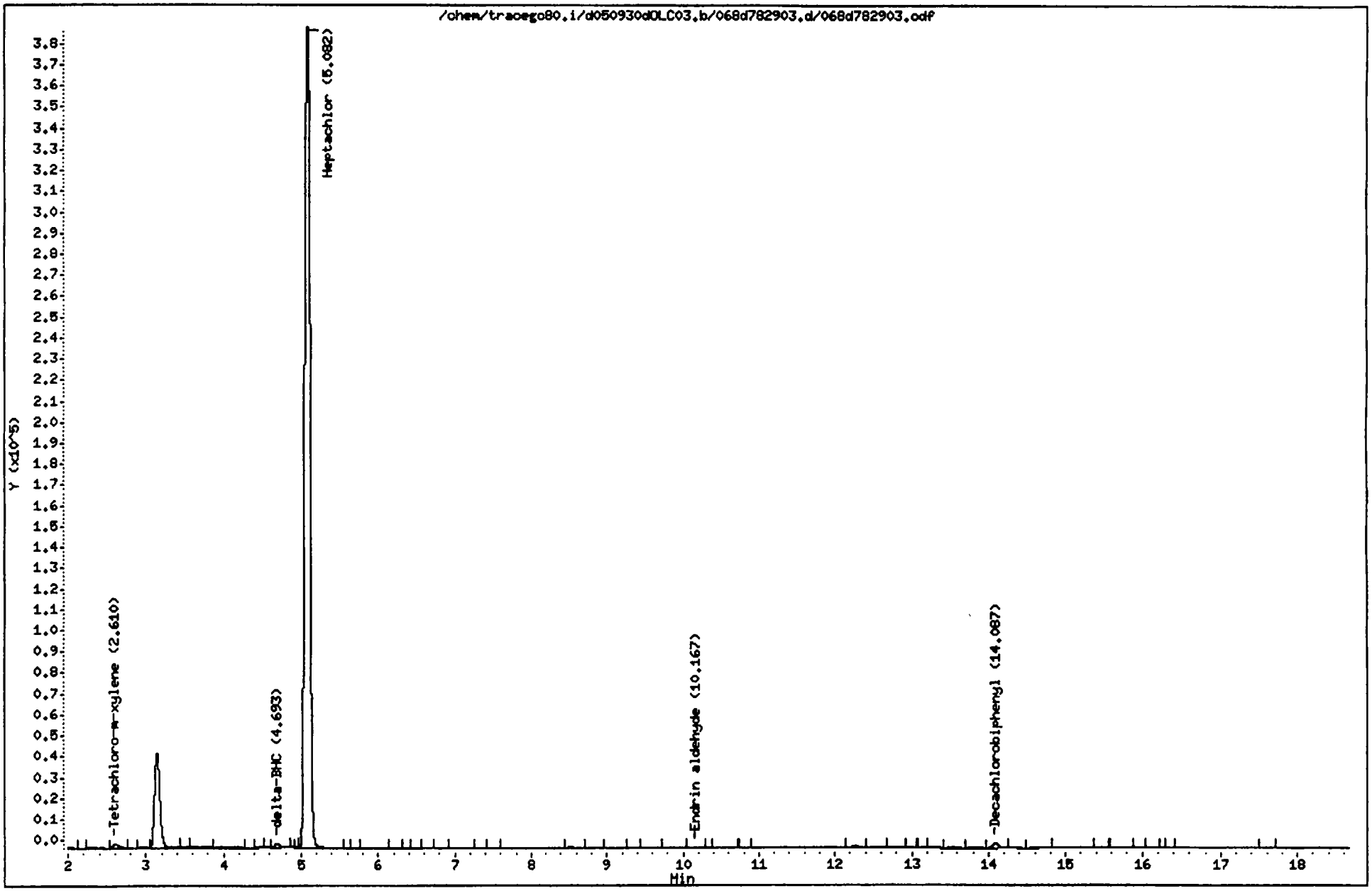
Sample Info: 782903

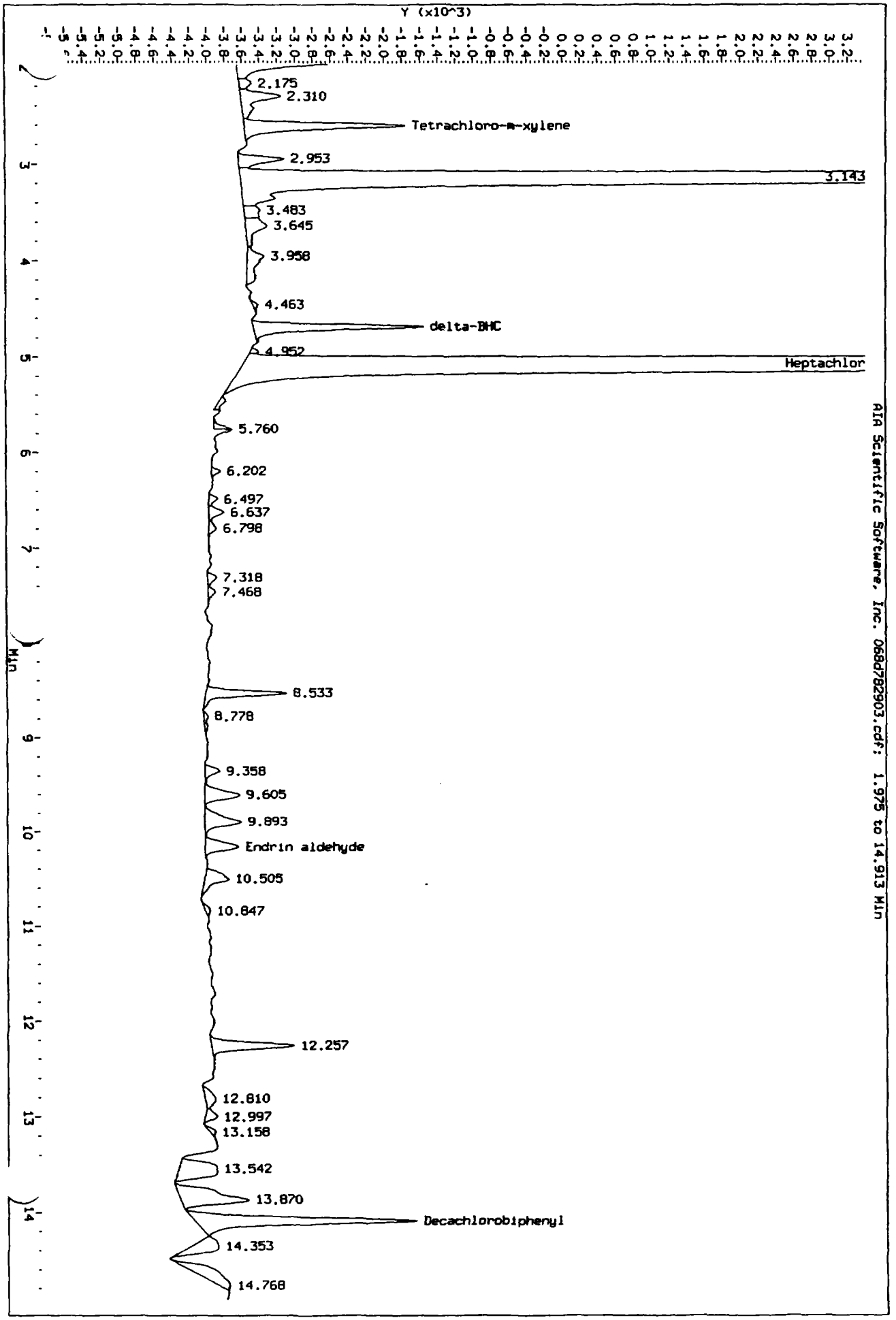
Volume Injected (uL): 1.0

Operator: 2461

Column phase: olpest

Column diameter: 0.53




Y (x10^3)
Min
2.175
2.310
Tetrachloro-m-xylene
2.953
3.143
3.483
3.645
3.958
4.463
delta-BHC
4.952
Heptachlor
5.760
6.202
6.497
6.637
6.798
7.318
7.468
8.533
8.778
9.358
9.605
9.893
Endrin aldehyde
10.505
10.847
12.257
12.810
12.997
13.158
13.542
13.870
Decachlorobiphenyl
14.353
14.768
Data File: /chem/tracegc80.i/d050930d0LC03.b/068d782903.d/068d782903.cdf
Injection Date: 01-OCT-2005 17:19
Instrument: tracegc80.i
Client Sample ID: ACSGWPWB26
AIA Scientific Software, Inc. 068d782903.cdf: 1.975 to 14.913 Min

CompuChem Environmental Corporation

Lab Smp Id : 782903 Client Smp Id : ACSGWPWB26
Sample Type : SAMPLE Sublist : olm03
Inj Date : 01-OCT-2005 17:19 Inst ID : TRACEGC80
Operator : 2461
Method : /chem/tracegc80.i/d050930dOLC03.b/olc03_clpest_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 2000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1100.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
0.13			759								
0.60			19417								
0.68			70011								
1.05			3992								
1.36			540								
1.66			122174								
1.95			11177								
2.17			668								
2.31			3299								
2.61	2.55	2.65	8162	513950	Tetrachloro-m-xylene	0.015881	0.028874		79.4	30 - 150	
2.95			2391								
3.14			217737								
3.48			1241								
3.64			2108								
3.96			2299								
4.46			212								
4.69	4.63	4.73	7660	661850	delta-BHC	0.011572	0.021040	0.010000			
4.95			222								
5.08	5.00	5.10	1898911	784550	Heptachlor	2.420382	4.400695	0.010000			E
5.76			447								
6.20			381								
6.50			435								
6.64			870								
6.80			498								
7.32			524								
7.47			436								
8.53			3858								
8.78			418								
9.36			852								
9.61			2531								
9.89			2982								
10.17	10.09	10.23	2186	367350	Endrin aldehyde	0.005951	0.010820	0.020000			J
10.51			2165								
10.85			314								
12.26			4450								
12.81			1079								
13.00			727								

CompuChem Environmental Corporation

Lab Smp Id : 782903 Client Smp Id : ACSGWPWB26
Sample Type : SAMPLE Sublist : olm03
Inj Date : 01-OCT-2005 17:19 Inst ID :
Operator : 2461
Method : /chem/tracegc80.i/d050930dOLC03.b/olc03_clpest_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 2000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1100.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
13.16		310								
13.54		4742								
13.87		6361								
14.09	13.99 14.19	13118	615700	Decachlorobiphenyl	0.021304	0.038735		106.5	30 - 150	
14.35		2850								
14.77		3560								
15.49		417								
15.75		1083								
16.10		779								
16.38		325								
17.66		1357								

Data File: /chem/tracego81.i/d050930d0LC03.b/068d782903.d

Date : 01-OCT-2005 17:19

Client ID: ACSCWPWB26

Sample Info: 782903

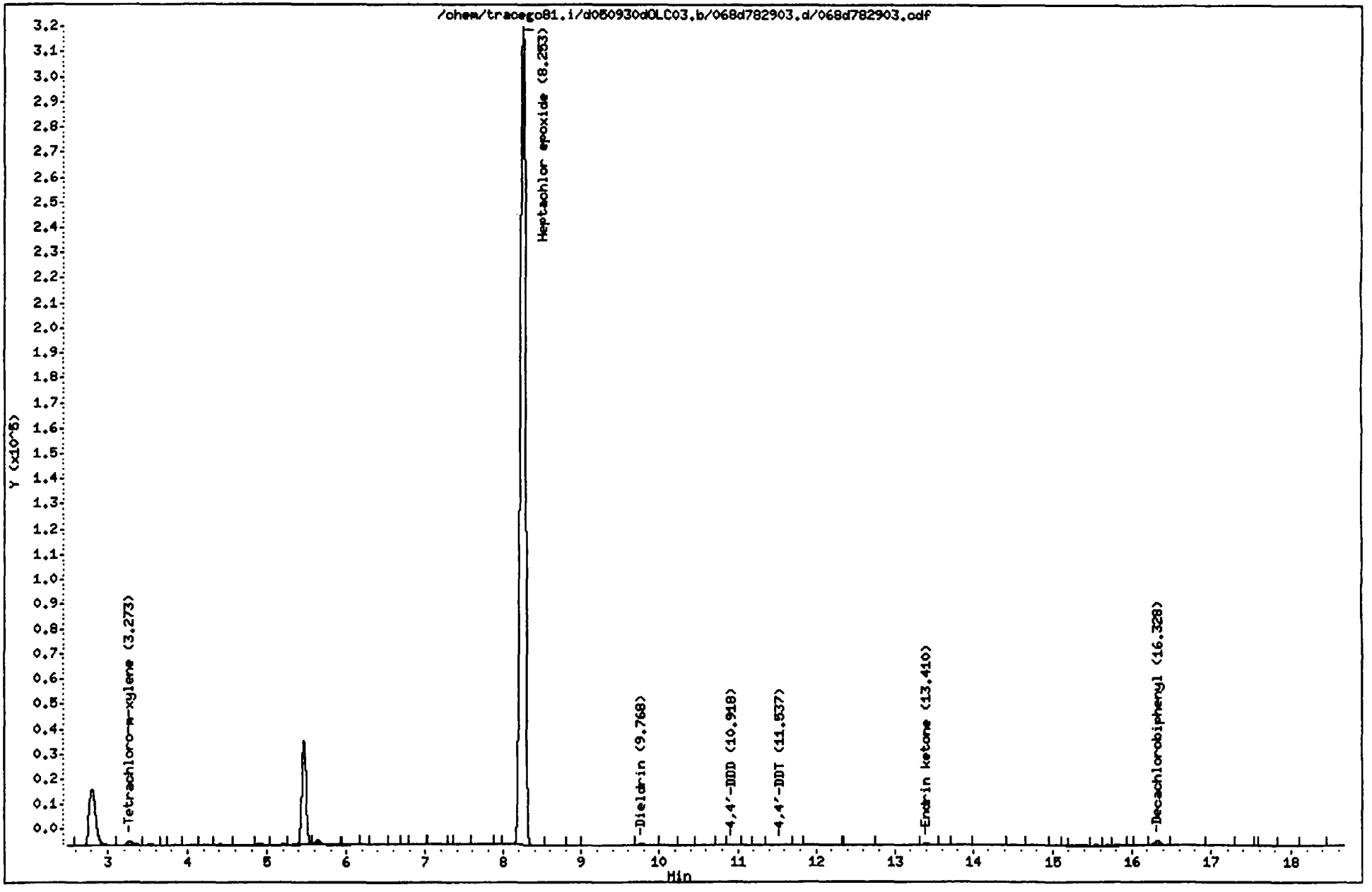
Volume Injected (uL): 1.0

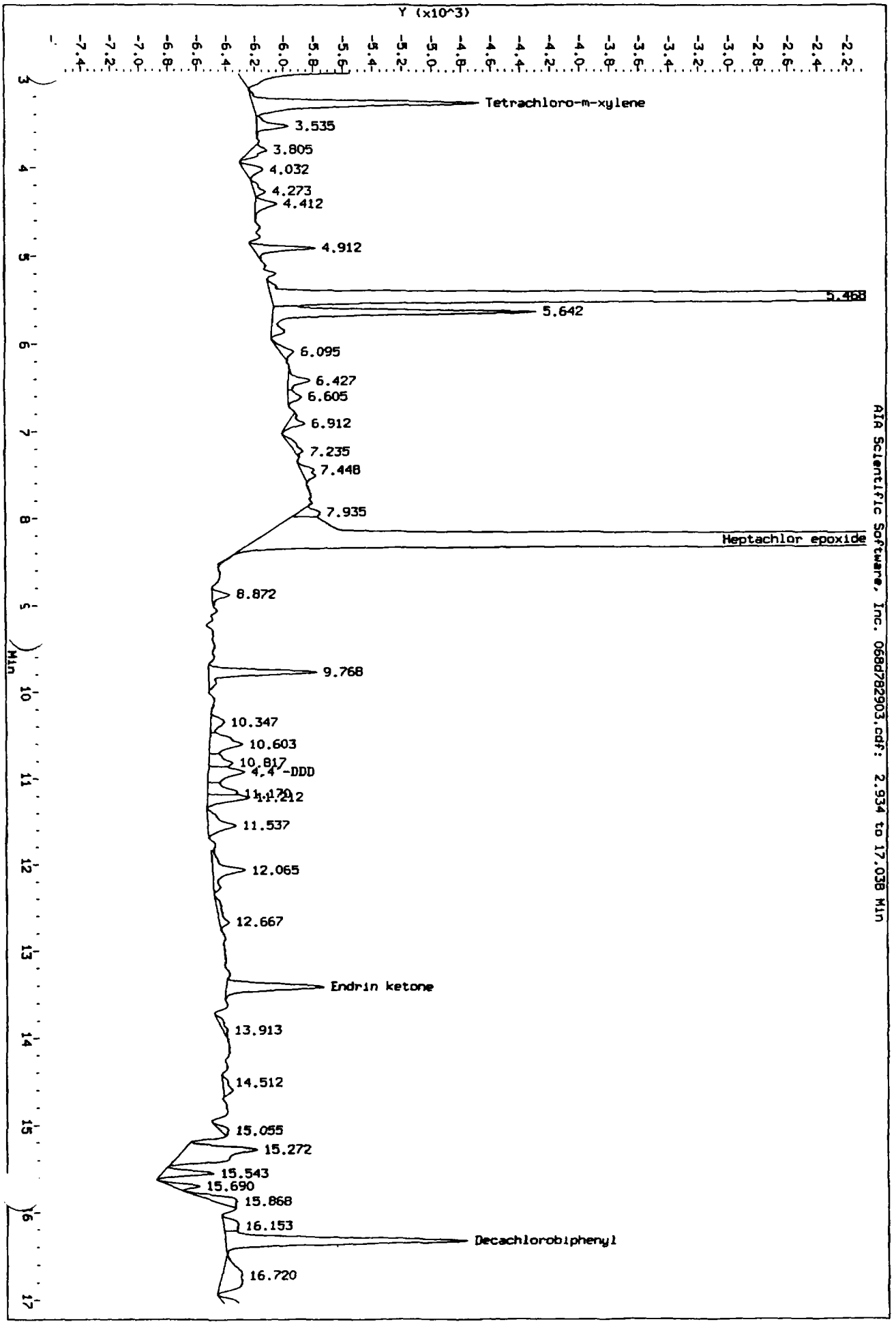
Column phase: olpest2

Instrument: tracego81.i

Operator: 2461

Column diameter: 0.53




Data File: /chem/tracegc81.i/a050930dDLC03.b/068d782903.d/068d782903.cdf
Injection Date: 01-OCT-2005 17:19
Instrument: tracegc81.i
Client Sample ID: ACSGWPWB26
Y (x10^3)
Tetrachloro-m-xylene
3.535
3.805
4.032
4.273
4.412
4.912
5.468
5.642
6.095
6.427
6.605
6.912
7.235
7.448
7.935
Heptachlor epoxide
8.872
9.768
10.347
10.603
10.817
4,4'-DDD
11.170
11.212
11.537
12.065
12.667
Endrin ketone
13.913
14.512
15.055
15.272
15.543
15.690
15.868
16.153
Decachlorobiphenyl
16.720
Min
AIA Scientific Software, Inc. 068d782903.cdf: 2.934 to 17.038 Min

CompuChem Environmental Corporation

Lab Smp Id : 782903 Client Smp Id : ACSGWPWB26
Sample Type : SAMPLE Sublist : olm03
Inj Date : 01-OCT-2005 17:19 Inst ID : TRACEGC81
Operator : 2461
Method : /chem/tracegc81.i/d050930dOLC03.b/olc03_clpest2_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 2000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1100.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
0.14			687								
0.57			27468								
0.66			57513								
1.10			2046								
1.38			1320								
1.64			582								
1.86			1586								
2.09			3502								
2.31			2002								
2.81			129895								
3.27	3.22	3.32	7034	423700	Tetrachloro-m-xylene	0.016601	0.030184		83.0	30 - 150	
3.54			1012								
3.81			755								
4.03			792								
4.27			469								
4.41			807								
4.91			1641								
5.47			156082								
5.64			7559								
6.09			578								
6.43			824								
6.61			506								
6.91			650								
7.24			539								
7.45			726								
7.93			768								
8.25	8.19	8.33	1555534	530250	Heptachlor epoxide	2.933584	5.333789	0.010000			E
8.87			546								
9.77	9.63	9.77	3407	500075	Dieldrin	0.006811	0.012384	0.020000			J
10.35			712								
10.60			1964								
10.82			1036								
10.92	10.80	10.94	1784	348450	4,4'-DDD	0.005120	0.009309	0.020000			J
11.17			1164								
11.21			1443								
11.54	11.48	11.62	1657	420675	4,4'-DDT	0.003937	0.007157	0.020000			J
12.06			1935								

CompuChem Environmental Corporation

Lab Smp Id : 782903 Client Smp Id : ACSGWPWB26
Sample Type : SAMPLE Sublist : olm03
Inj Date : 01-OCT-2005 17:19 Inst ID :
Operator : 2461
Method : /chem/tracegc81.i/d050930dOLC03.b/olc03_clpest2_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 2000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1100.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
12.67		732								
13.41	13.28 13.42	3302	414175	Endrin ketone	0.007970	0.014491	0.020000			J
13.91		364								
14.51		511								
15.05		331								
15.27		4780								
15.54		1392								
15.69		683								
15.87		1229								
16.15		824								
16.33	16.23 16.43	8387	482325	Decachlorobiphenyl	0.017387	0.031612		86.9	30 - 150	
16.72		2443								
17.12		1670								
17.39		725								
17.73		653								
		829								

1LCE
LOW CONCENTRATION WATER PESTICIDE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

ACSGWPWB26RE

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 782903R Date Received: 09/27/2005

Sample Volume: 500(ML) Date Extracted: 10/05/2005

Concentrated Extract Volume: 1000(UL) Date Analyzed: 10/06/2005

Injection Volume: 1.0(UL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N Extraction: (Sepf/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

Data File: /chem/tracego82.i/m051005c0LC03.b/064m782903.d

Date : 06-OCT-2005 18:56

Client ID: ACSCWPWB26RE

Sample Info: 782903R

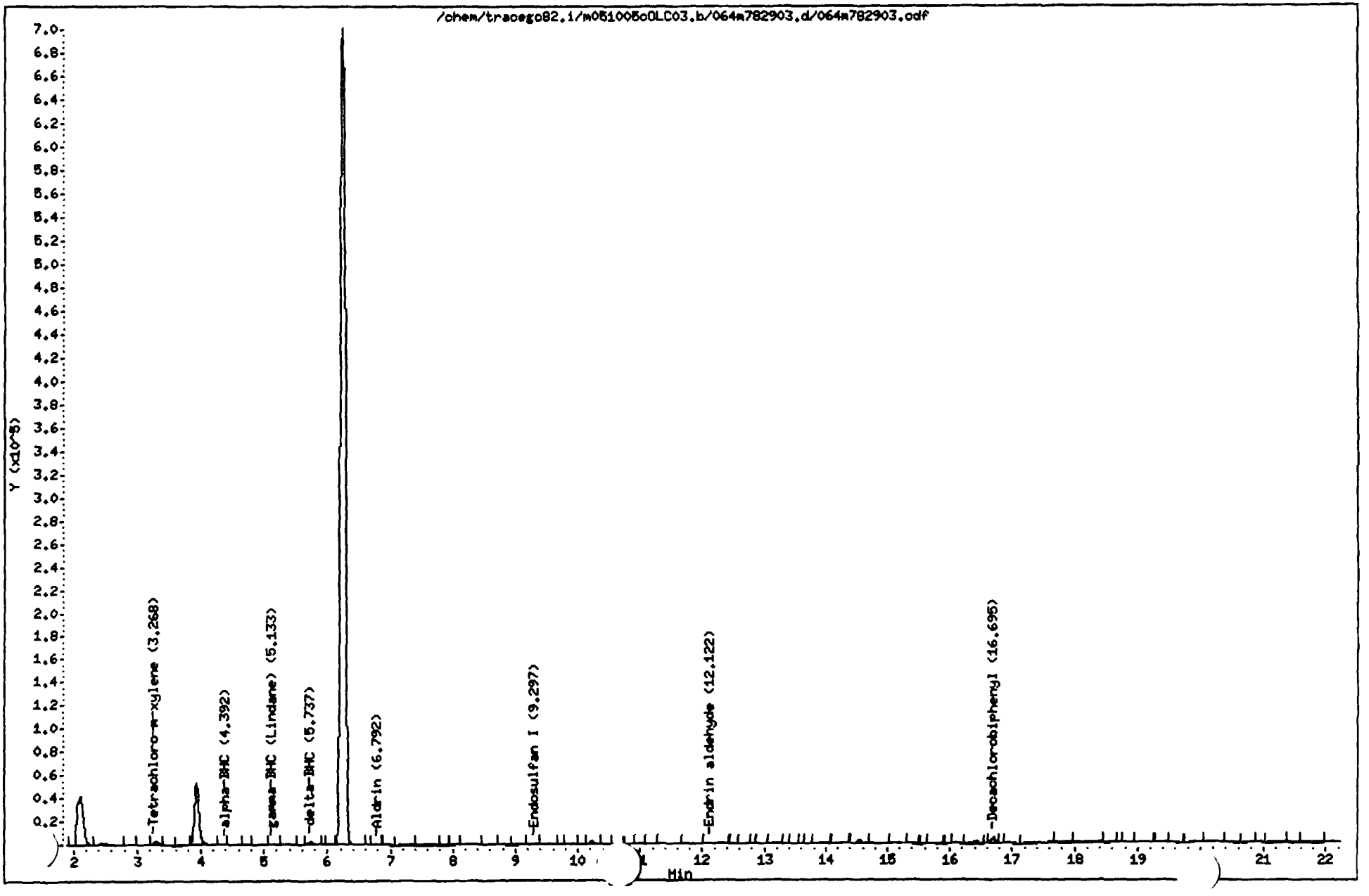
Volume Injected (uL): 1.0

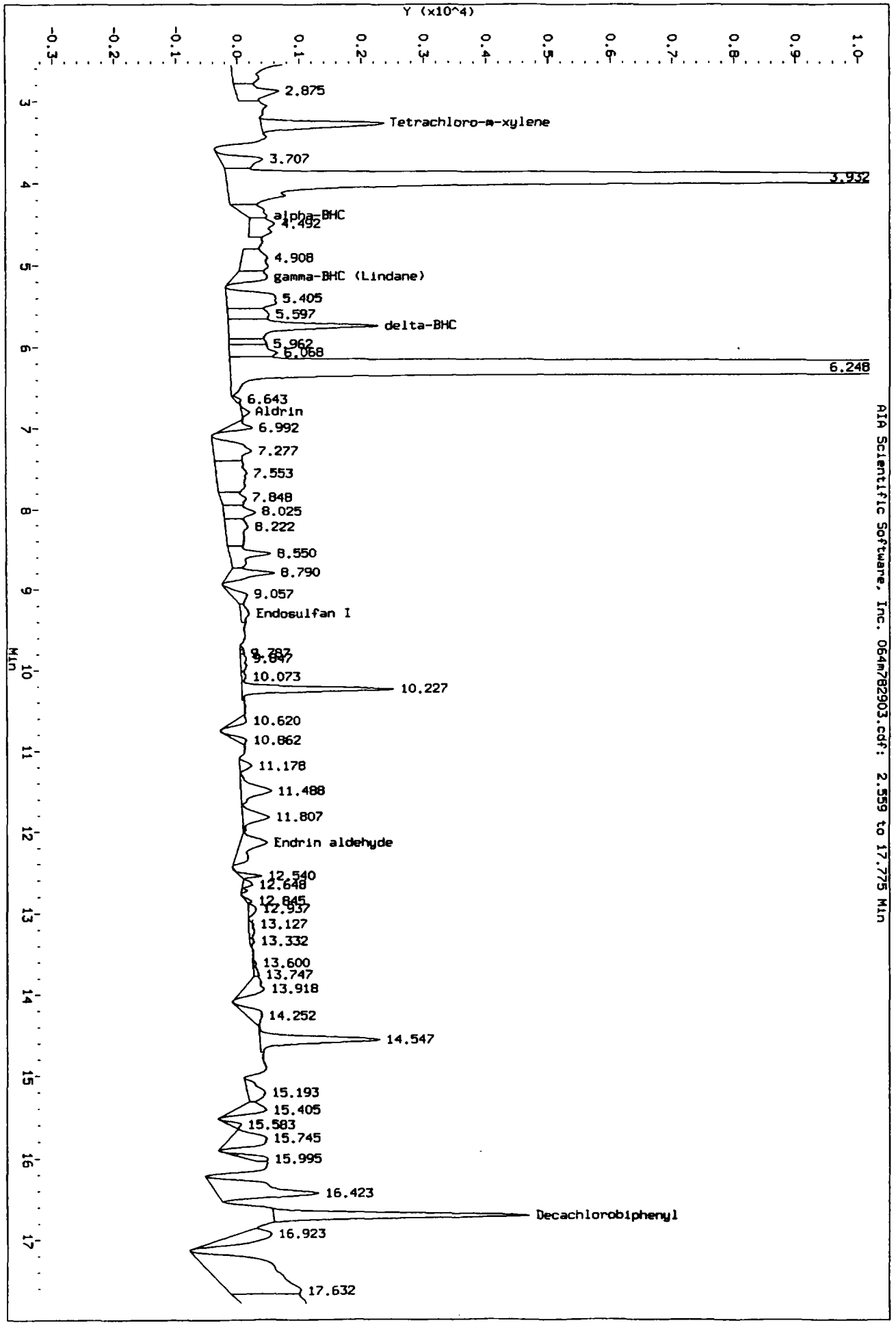
Column phase: olpest

Instrument: tracego82.i

Operator: 2461

Column diameter: 0.53




Data File: /chem/tracegc82.i/m051005cDLC03.b/064m782903.d/064m782903.cdf
Injection Date: 06-OCT-2005 18:56
Instrument: tracegc82.i
Client Sample ID: ACSGWPWB26RE
Y (x10^4)
-0.3
-0.2
-0.1
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
Min
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
2.875
Tetrachloro-m-xylene
3.707
3.932
alpha-BHC
4.492
4.908
gamma-BHC (Lindane)
5.405
5.597
delta-BHC
5.962
6.068
6.248
6.643
Aldrin
6.992
7.277
7.553
7.848
8.025
8.222
8.550
8.790
9.057
Endosulfan I
9.283
9.647
10.073
10.227
10.620
10.862
11.178
11.488
11.807
Endrin aldehyde
12.540
12.648
12.845
12.937
13.127
13.332
13.600
13.747
13.918
14.252
14.547
15.193
15.405
15.583
15.745
15.995
16.423
Decachlorobiphenyl
16.923
17.632
AIA Scientific Software, Inc. 064m782903.cdf: 2.559 to 17.775 Min

CompuChem Environmental Corporation

Lab Smp Id : 782903R Client Smp Id : ACSGWPWB26RE
Sample Type : SAMPLE Sublist : olm03
Inj Date : 06-OCT-2005 18:56 Inst ID : TRACEGC82
Operator : 2461
Method : /chem/tracegc82.i/m051005cOLC03.b/olc03_clpest_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 500.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
0.15			5805								
0.89			983371								
1.32			19461								
1.44			16605								
1.71			13875								
2.10			293670								
2.46			20142								
2.88			5804								
3.27	3.21	3.31	9900	719050	Tetrachloro-m-xylene	0.013767	0.027534		68.8	30 - 150	M
3.71			5498								
3.93			280356								
4.39	4.34	4.44	3667	1186150	alpha-BHC	0.003091	0.006181	0.010000			J
4.49			4632								
4.91			6203								
	5.05	5.15	4234	1121350	gamma-BHC (Lindane)	0.003776	0.007552	0.010000			J
			9454								
5.60			5037								
5.74	5.66	5.76	15951	1126550	delta-BHC	0.014158	0.028317	0.010000			
5.96			2530								
6.07			6072								
6.25			3855674								
6.64			345								
6.79			536								
6.99			1985								
7.28			7455								
7.55			10491								
7.85			3590								
8.03			4185								
8.22			6114								
8.55			5282								
8.79			4210								
9.06			2139								
9.30	9.21	9.35	1279	1100200	Endosulfan I	0.001163	0.002325	0.010000			J
9.79			271								
9.85			967								
10.07			393								
10.23			10034								

CompuChem Environmental Corporation

Lab Smp Id : 782903R Client Smp Id : ACSGWPWB26RE
Sample Type : SAMPLE Sublist : olm03
Inj Date : 06-OCT-2005 18:56 Inst ID :
Operator : 2461
Method : /chem/tracegc82.i/m051005cOLC03.b/olc03_clpest_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 500.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
10.62		1294								
10.86		986								
11.18		1112								
11.49		4341								
11.81		3465								
12.12	12.03 12.17	5359	743350	Endrin aldehyde	0.007209	0.014419	0.020000			J
12.54		979								
12.65		915								
12.85		270								
12.94		863								
13.13		878								
13.33		296								
13.60		193								
13.75		428								
13.92		3593								
14.25		2759								
14.55		10575								
15.19		3113								
15.40		3788								
15.58		790								
15.74		6287								
15.99		1747								
16.42		15839								
16.70	16.57 16.77	18068	1191025	Decachlorobiphenyl	0.015170	0.030340		75.9	30 - 150	M
16.92		6865								
17.63		32074								
17.91		18707								
18.21		28772								
18.52		8171								
18.79		2616								
19.00		2305								
19.32		793								
19.58		1854								
19.95		1925								
20.20		511								
20.48		1932								
20.76		1039								

CompuChem Environmental Corporation

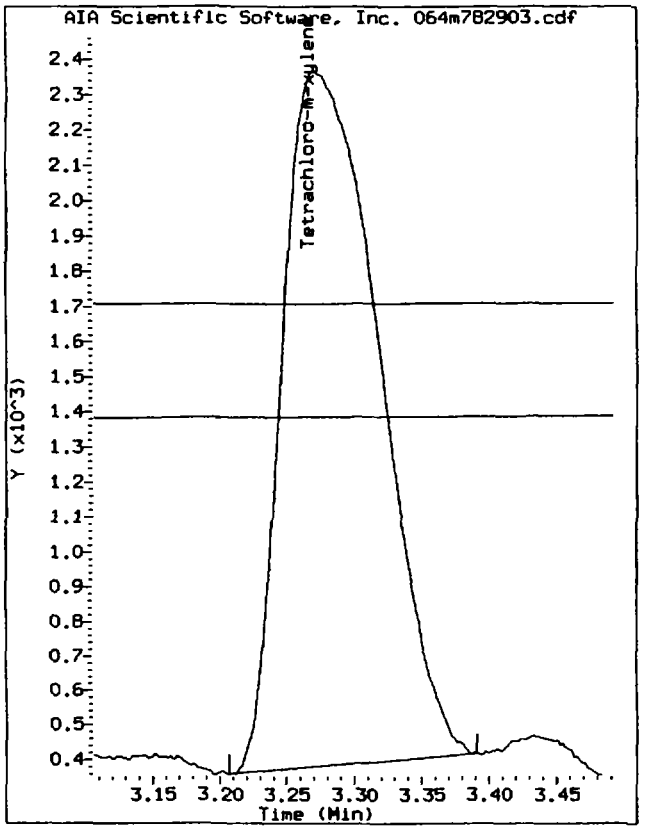
Lab Smp Id : 782903R Client Smp Id : ACSGWPWB26RE
Sample Type : SAMPLE Sublist : olm03
Inj Date : 06-OCT-2005 18:56 Inst ID :
Operator : 2461
Method : /chem/tracegc82.i/m051005cOLC03.b/olc03_clpest_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

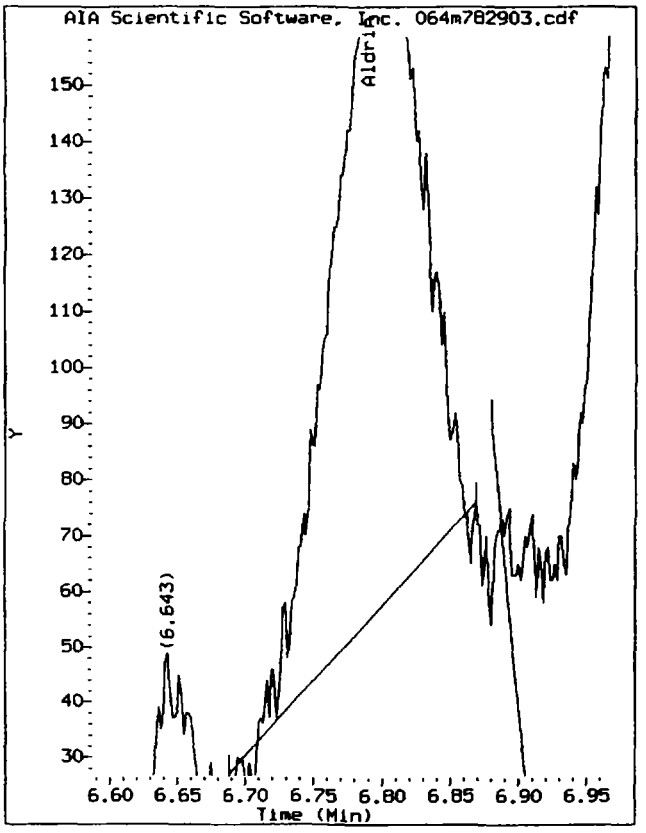
DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 500.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
21.20		2658								
21.54		1310								
21.71		2363								

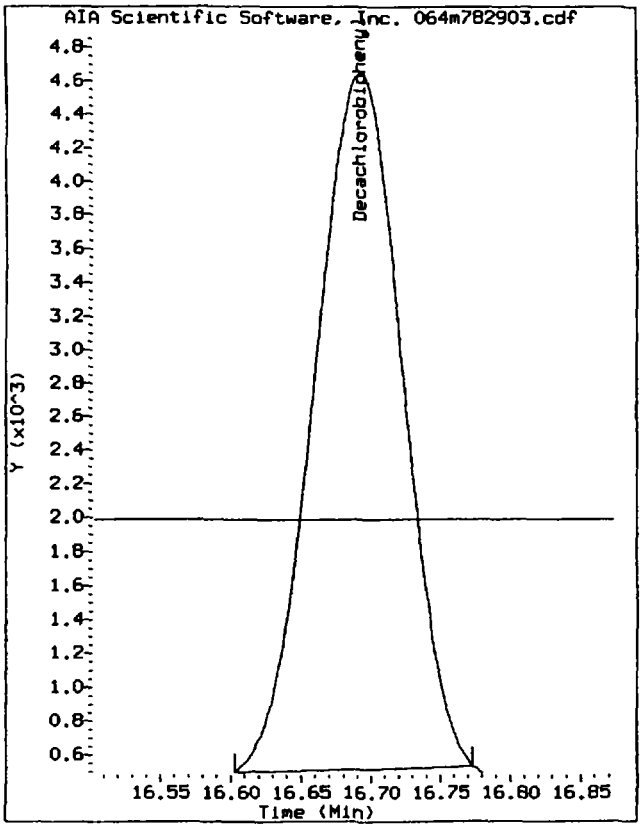
Manually Integrated Peaks



Start: 3.21 Stop: 3.39



Start: 6.69 Stop: 6.87



Start: 16.60 Stop: 16.77

Data File: /chem/tracego83.i/m051006c0LC03.b/064m782903.d

Page 1

Date : 06-OCT-2005 18:56

Client ID: ACSGWPWB26RE

Instrument: tracego83.i

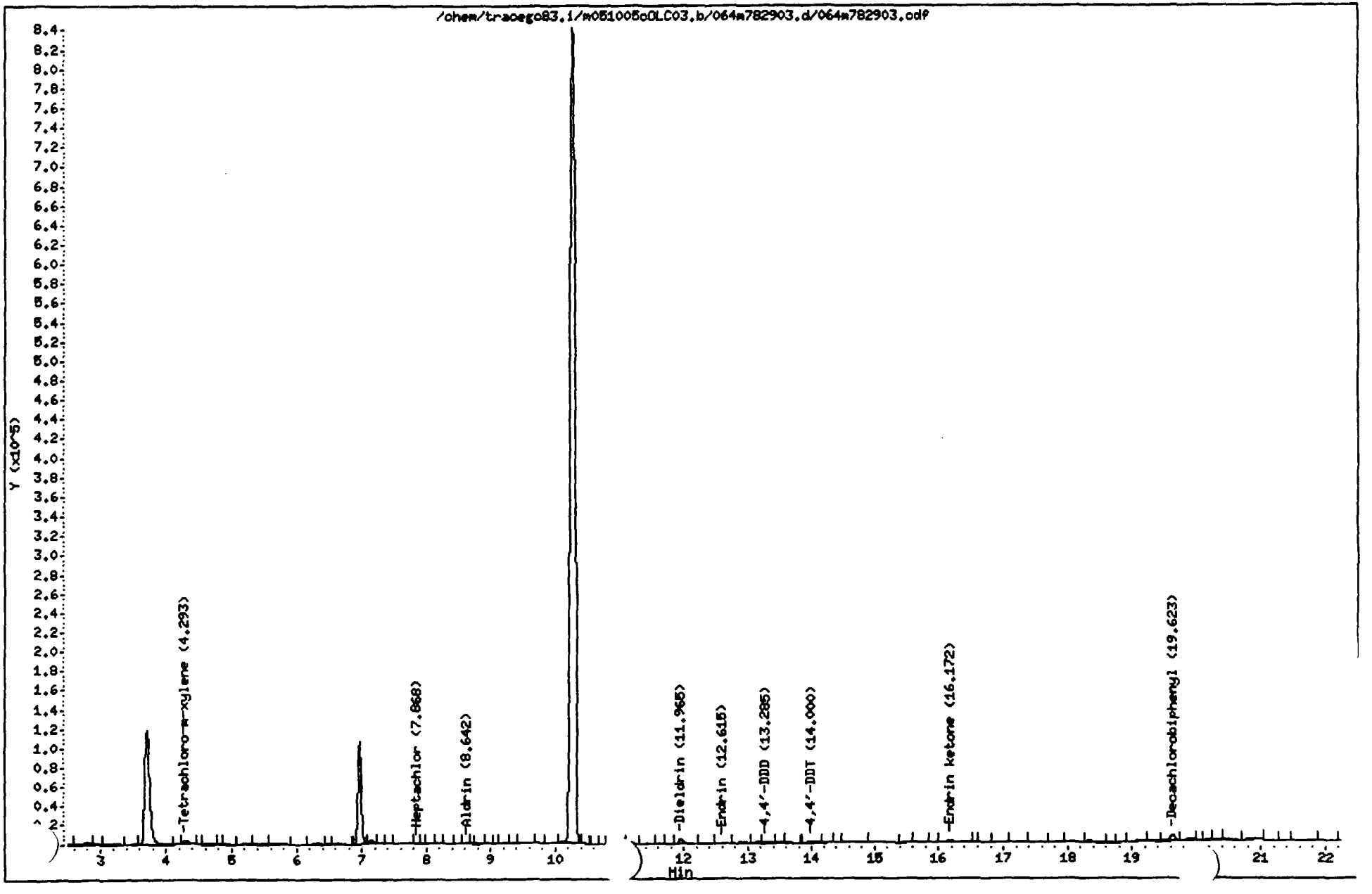
Sample Info: 782903R

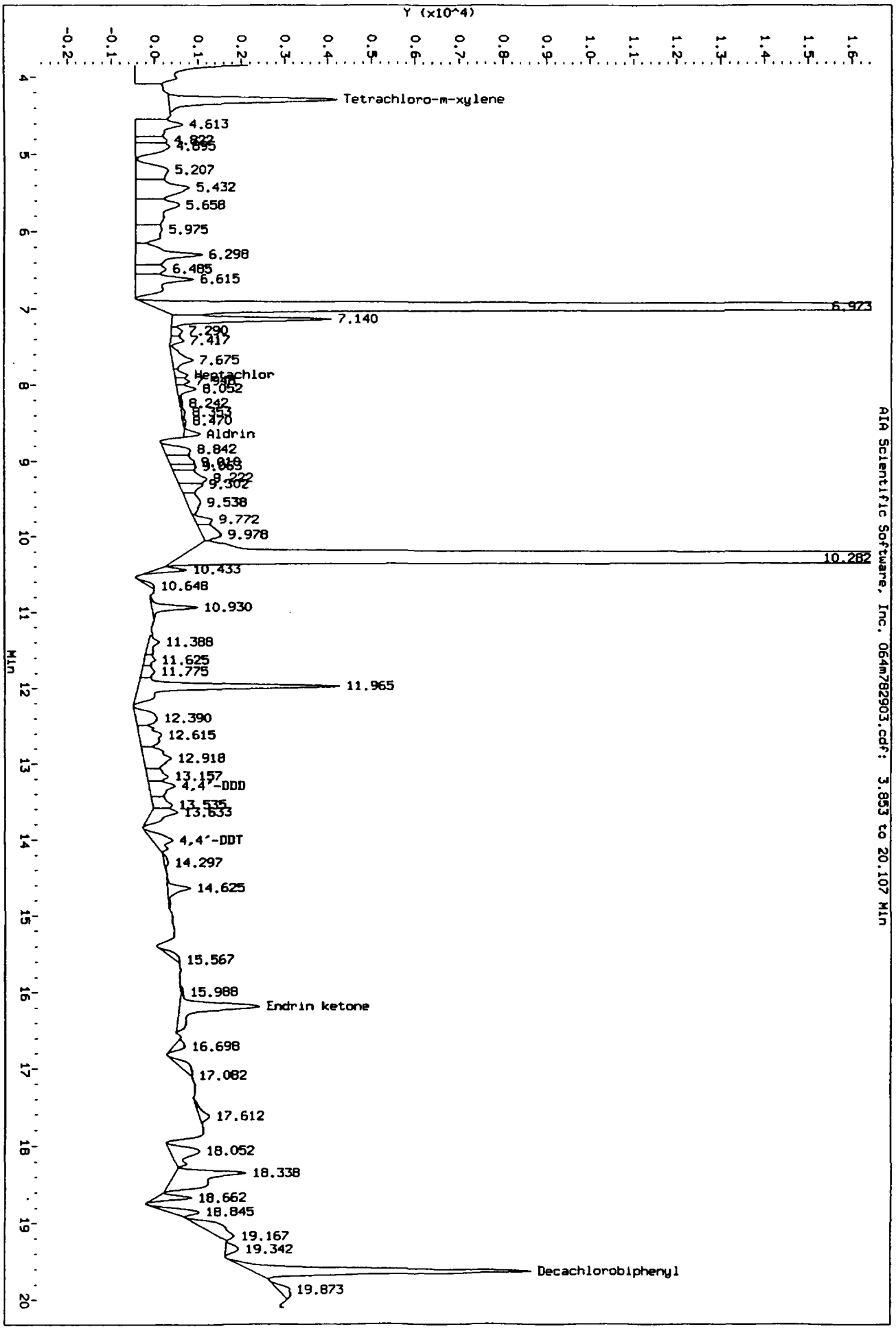
Volume Injected (uL): 1.0

Operator: 2461

Column phase: olpest2

Column diameter: 0.53




Data File: /chem/tracegc83.i/m051005cDLC03.b/064m782903.d/064m782903.cdf
Injection Date: 06-OCT-2005 18:56
Instrument: tracegc83.i
Client Sample ID: ACSGWPWB26RE
Y (x10^4)
Min
Tetrachloro-m-xylene
4.613
5.207
5.432
5.658
5.975
6.298
6.485
6.615
6.973
7.140
7.290
7.417
7.675
Heptachlor
8.052
8.242
8.470
Aldrin
8.842
9.538
9.772
9.978
10.282
10.433
10.648
10.930
11.388
11.625
11.775
11.965
12.390
12.615
12.918
13.157
4,4'-DDD
13.633
4,4'-DDT
14.297
14.625
15.567
15.988
Endrin ketone
16.698
17.082
17.612
18.052
18.338
18.662
18.845
19.167
19.342
Decachlorobiphenyl
19.873
AIA Scientific Software, Inc. 064m782903.cdf: 3.853 to 20.107 Min

CompuChem Environmental Corporation

Lab Smp Id : 782903R Client Smp Id : ACSGWPWB26RE
Sample Type : SAMPLE Sublist : olm03
Inj Date : 06-OCT-2005 18:56 Inst ID : TRACEGC83
Operator : 2461
Method : /chem/tracegc83.i/m051005cOLC03.b/olc03_clpest2_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 500.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
0.15			5533								
0.91			1784498								
1.40			6359								
1.52			28380								
1.68			27492								
1.84			21689								
2.30			8756								
2.50			10314								
2.78			26030								
2.92			12883								
3.12			16009								
3.53			5311								
3.71			650157								
4.29	4.23	4.33	18055	1069850	Tetrachloro-m-xylene	0.016875	0.033751		84.4	30 - 150	M
			11119								
			3269								
[illegible]			6647								
5.21			8317								
5.43			14253								
5.66			14827								
5.97			7798								
6.30			13116								
6.49			4523								
6.62			12489								
6.97			383582								
7.14			14682								
7.29			1492								
7.42			1589								
7.67			4164								
7.87			1387								
7.95			1432								
8.05			2218								
8.24			409								
8.35			567								
8.47			365								
8.64			1522								
8.84			4190								

CompuChem Environmental Corporation

Lab Smp Id : 782903R Client Smp Id : ACSGWPWB26RE
Sample Type : SAMPLE Sublist : olm03
Inj Date : 06-OCT-2005 18:56 Inst ID :
Operator : 2461
Method : /chem/tracegc83.i/m051005cOLC03.b/olc03_clpest2_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 500.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
9.01		4015								
9.06		2532								
9.22		6029								
9.30		3305								
9.54		4000								
9.77		2356								
9.98		4448								
10.28		4528345								
10.43		2429								
10.65		793								
10.93		4616								
11.39		2314								
11.62		1717								
11.78		2229								
11.96	11.83 11.97	23741	1848950	Dieldrin	0.012840	0.025679	0.020000			
12.39		5252								
12.62	12.58 12.72	6814	1510625	Endrin	0.004511	0.009021	0.020000			J
12.92		8166								
13.16		3837								
13.28	13.17 13.31	5223	1303075	4,4'-DDD	0.004008	0.008016	0.020000			J
13.54		3462								
13.63		5393								
14.00	13.96 14.10	4741	1522700	4,4'-DDT	0.003114	0.006227	0.020000			J
14.30		742								
14.62		3251								
15.57		1533								
15.99		285								
16.17	16.09 16.23	13939	1712350	Endrin ketone	0.008140	0.016281	0.020000			J
16.70		1819								
17.08		2632								
17.61		1859								
18.05		6411								
18.34		15981								
18.66		3220								
18.84		3806								
19.17		6876								
19.34		1940								

CompuChem Environmental Corporation

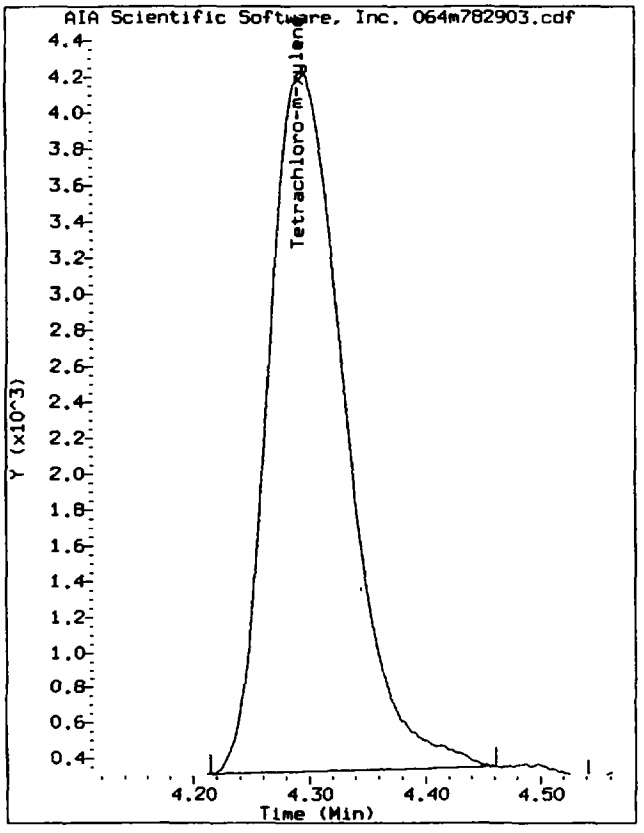
Lab Smp Id : 782903R Client Smp Id : ACSGWPWB26RE
Sample Type : SAMPLE Sublist : olm03
Inj Date : 06-OCT-2005 18:56 Inst ID :
Operator : 2461
Method : /chem/tracegc83.i/m051005cOLC03.b/olc03_clpest2_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

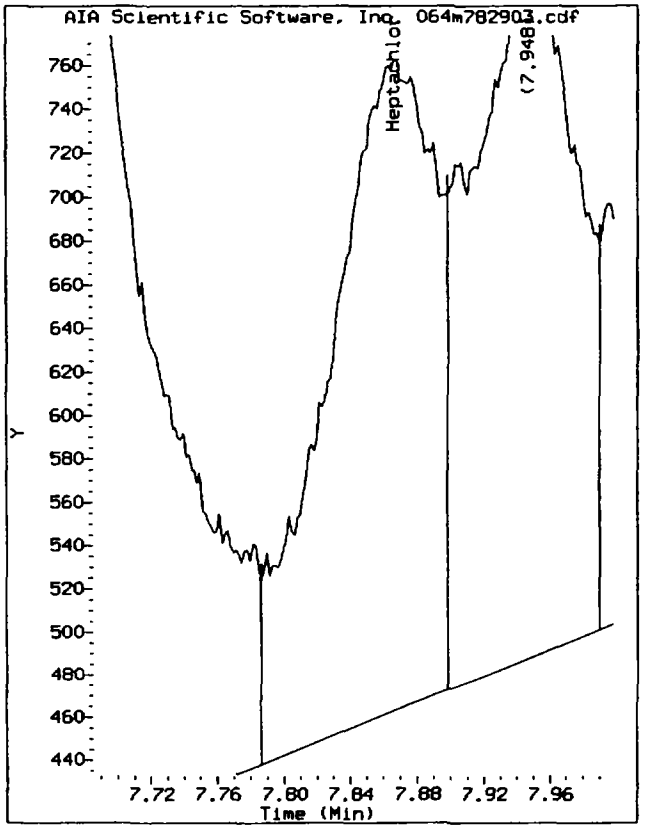
DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 500.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
19.62	19.51 19.71	30331	1977350	Decachlorobiphenyl	0.015339	0.030678		76.7	30 - 150	
19.87		2354								
20.17		2299								
20.33		2757								
20.55		7370								
20.84		4690								
21.32		711								
22.01		1618								

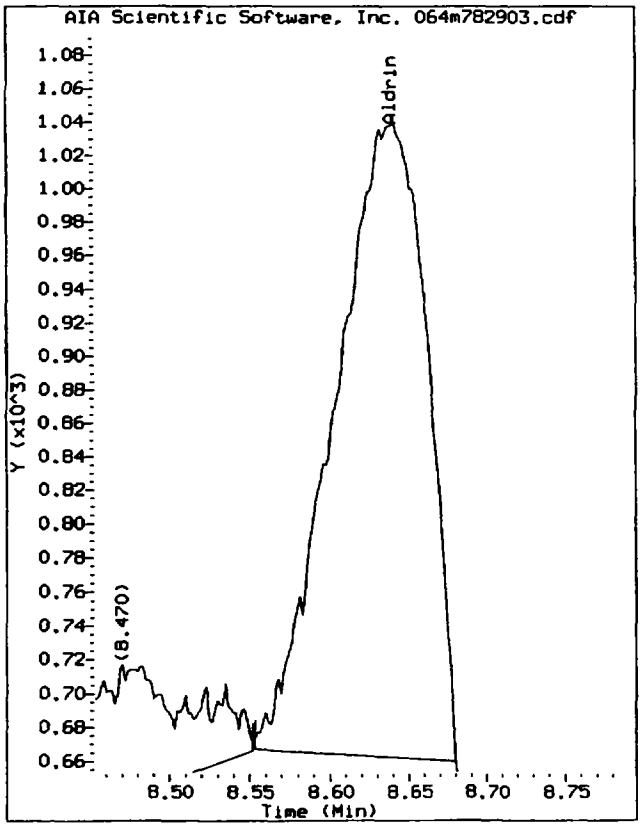
Manually Integrated Peaks



Start: 4.21 Stop: 4.46



Start: 7.79 Stop: 7.90



Start: 8.55 Stop: 8.68

1LCE
LOW CONCENTRATION WATER PESTICIDE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

ACSGWPWC26

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 782905 Date Received: 09/27/2005

Sample Volume: 1100(ML) Date Extracted: 09/28/2005

Concentrated Extract Volume: 2000(UL) Date Analyzed: 10/01/2005

Injection Volume: 1.0(UL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N Extraction: (Sepf/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

Data File: /chem/tracego80.i/d050930e0LC03.b/080d782905.d

Date : 01-OCT-2005 21:40

Client ID: ACSGWPWC26

Instrument: tracego80.i

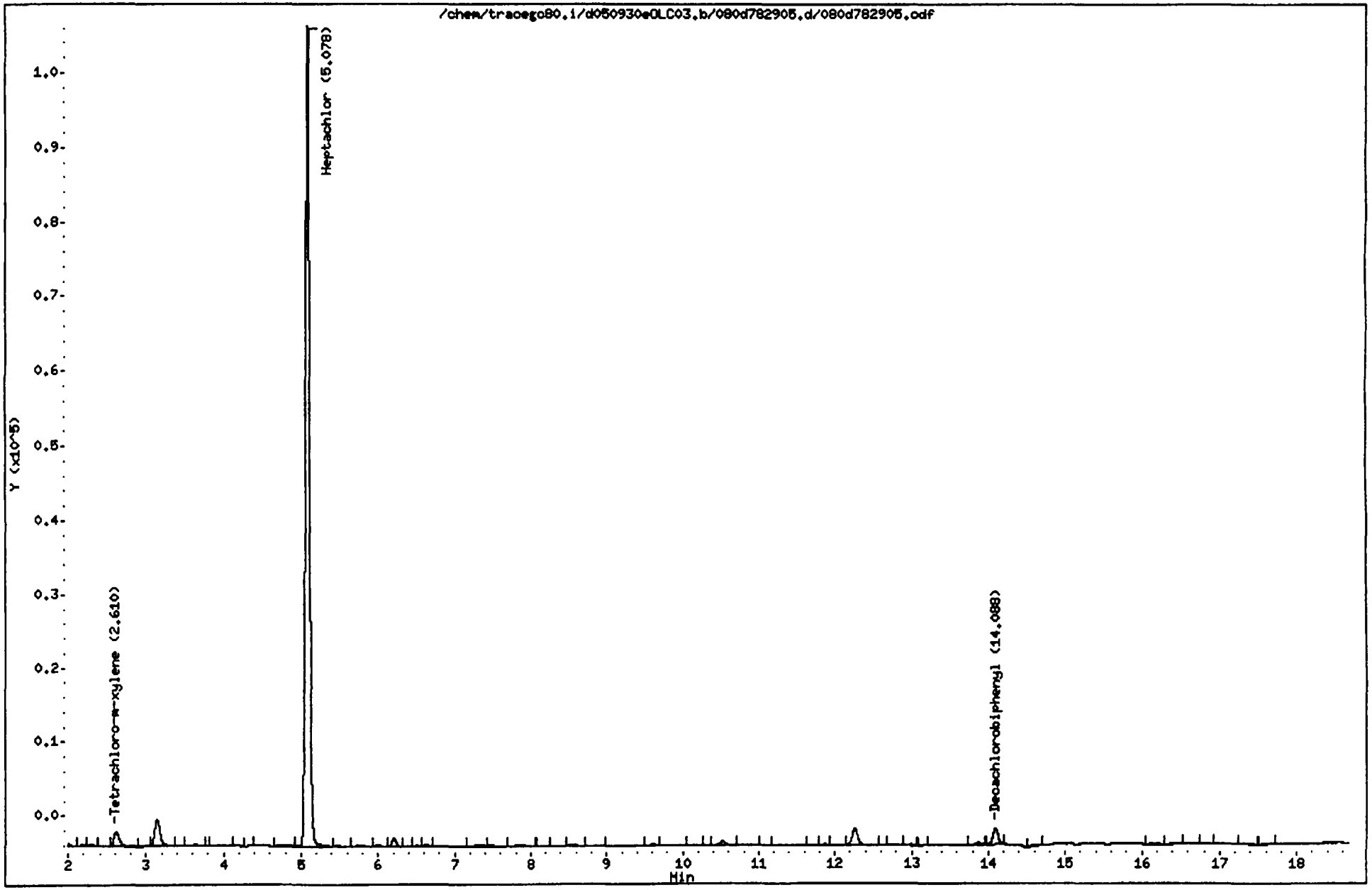
Sample Info: 782905

Volume Injected (uL): 1.0

Operator: 2461

Column phase: olpest

Column diameter: 0.53



CompuChem Environmental Corporation

Lab Smp Id : 782905 Client Smp Id : ACSGWPWC26
Sample Type : SAMPLE Sublist : olm03
Inj Date : 01-OCT-2005 21:40 Inst ID : TRACEGC80
Operator : 2461
Method : /chem/tracegc80.i/d050930eOLC03.b/olc03_clpest_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 2000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1100.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
0.12			785								
0.68			39481								
1.05			1979								
1.13			3420								
1.64			14550								
1.95			3832								
2.19			598								
2.29			635								
2.48			330								
2.61	2.55	2.65	9120	513950	Tetrachloro-m-xylene	0.017745	0.032263		88.7	30 - 150	
2.96			608								
3.14			17727								
3.63			1069								
4.02			707								
' 34			204								
'5			1020								
08	5.00	5.10	394002	784550	Heptachlor	0.502201	0.913093	0.010000			E
5.47			1026								
5.76			1753								
6.00			658								
6.21			3787								
6.50			397								
6.63			554								
7.30			1650								
7.47			1096								
7.83			1959								
8.22			307								
8.54			930								
8.77			615								
9.61			509								
10.20			684								
10.52			2933								
10.83			808								
11.08			209								
11.70			278								
11.86			298								
12.26			11496								

CompuChem Environmental Corporation

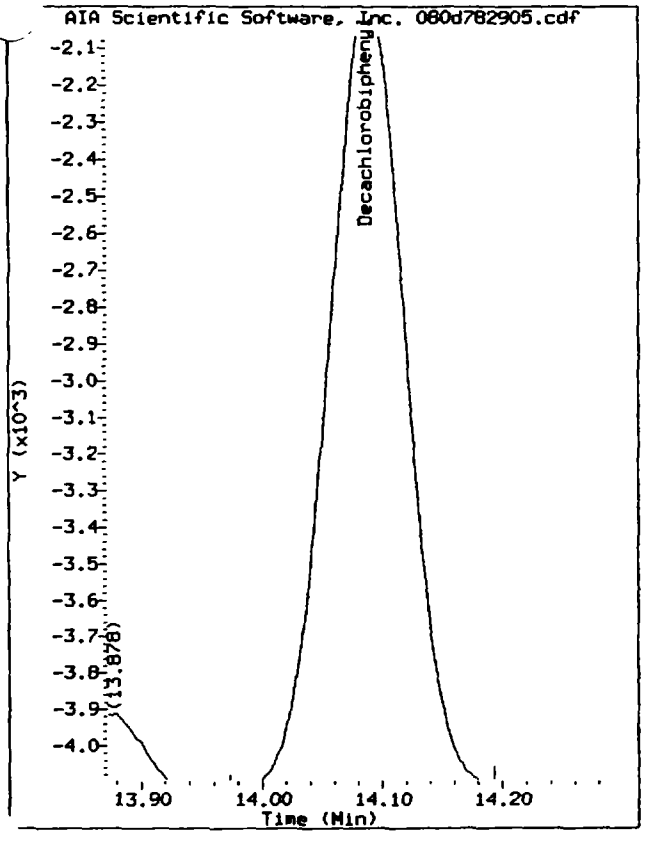
Lab Smp Id : 782905 Client Smp Id : ACSGWPWC26
Sample Type : SAMPLE Sublist : olm03
Inj Date : 01-OCT-2005 21:40 Inst ID :
Operator : 2461
Method : /chem/tracegc80.i/d050930eOLC03.b/olc03_clpest_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 2000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1100.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
12.80		1032								
12.99		1621								
13.17		421								
13.88		1625								
14.09	13.99 14.19	9697	615700	Decachlorobiphenyl	0.015748	0.028633		78.7	30 - 150	M
14.64		1426								
16.20		1853								
16.46		923								
16.66		382								
16.90		237								
17.36		1399								
17.66		926								

Manually Integrated Peaks



Start: 13.97 Stop: 14.19

Data File: /chem/tracego81.i/d050930e0LC03.b/080d782905.d

Date : 01-OCT-2005 21:40

Client ID: ACSCWPWC26

Instrument: tracego81.i

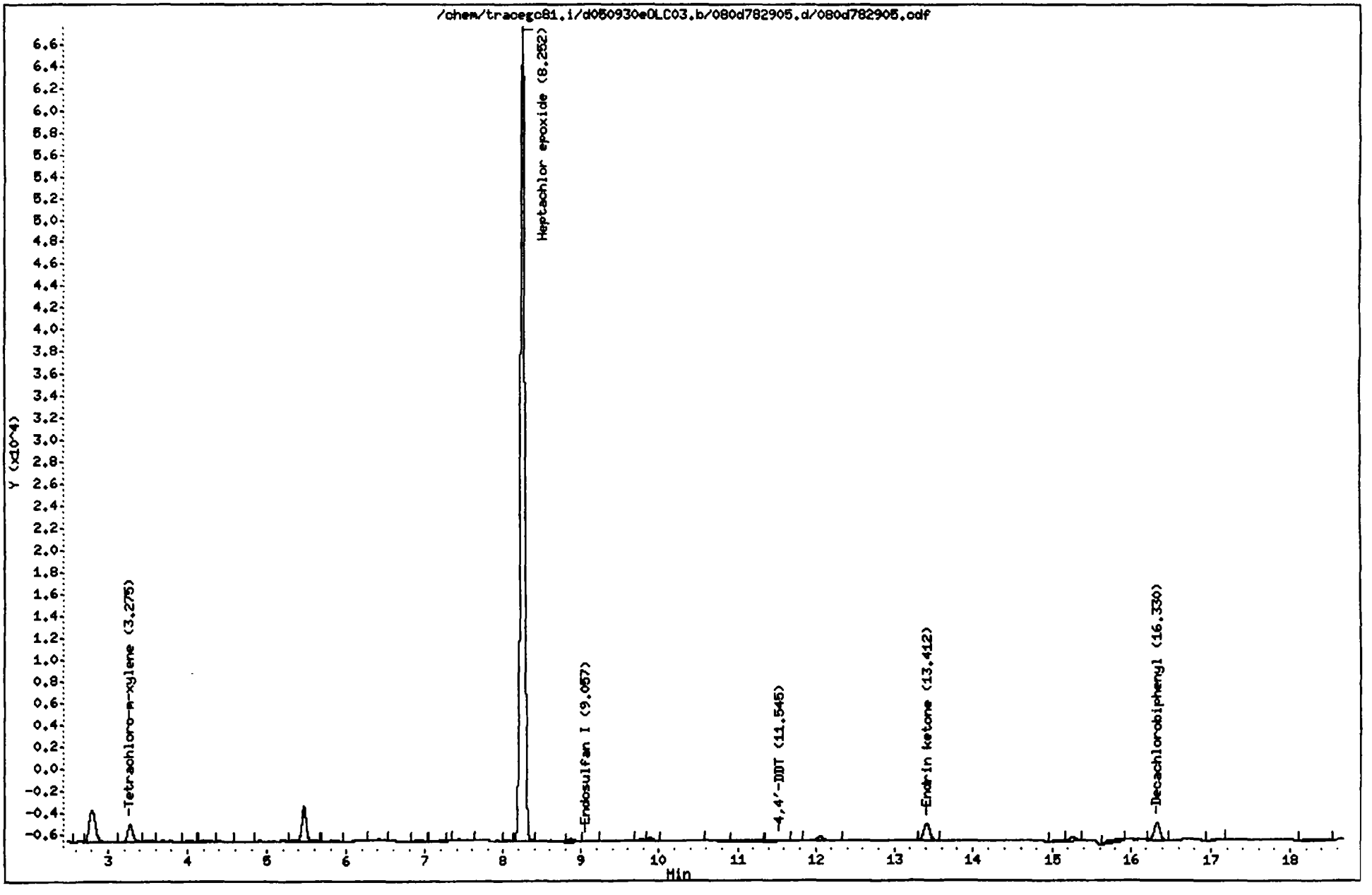
Sample Info: 782905

Volume Injected (uL): 1.0

Operator: 2461

Column phase: olpest2

Column diameter: 0.53



CompuChem Environmental Corporation

Lab Smp Id : 782905 Client Smp Id : ACSGWPWC26
Sample Type : SAMPLE Sublist : olm03
Inj Date : 01-OCT-2005 21:40 Inst ID : TRACEGC81
Operator : 2461
Method : /chem/tracegc81.i/d050930eOLC03.b/olc03_clpest2_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 2000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1100.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
0.13			1269								
0.58			14301								
0.66			54401								
1.12			2679								
1.38			1232								
1.64			453								
1.86			2282								
2.10			1415								
2.27			797								
2.80			15599								
3.28	3.22	3.32	7070	423700	Tetrachloro-m-xylene	0.016684	0.030334		83.4	30 - 150	
3.52			568								
4.03			942								
4.21			961								
[illegible]9			690								
			12653								
			939								
6.41			618								
6.93			689								
7.24			302								
7.44			911								
8.06			282								
8.25	8.19	8.33	276711	530250	Heptachlor epoxide	0.521848	0.948815	0.010000			E
8.88			1552								
9.06	9.01	9.15	854	546800	Endosulfan I	0.001562	0.002840	0.010000			J
9.79			608								
9.89			1346								
10.75			1288								
11.08			2115								
11.54	11.48	11.62	1495	420675	4,4'-DDT	0.003554	0.006461	0.020000			J
12.06			3217								
13.41	13.28	13.42	7875	414175	Endrin ketone	0.019014	0.034570	0.020000			
15.09			1311								
15.25			1650								
15.83			2317								
16.33	16.23	16.43	7583	482325	Decachlorobiphenyl	0.015722	0.028585		78.6	30 - 150	
17.10			500								

CompuChem Environmental Corporation

Lab Smp Id : 782905 Client Smp Id : ACSGWPWC26
Sample Type : SAMPLE Sublist : olm03
Inj Date : 01-OCT-2005 21:40 Inst ID :
Operator : 2461
Method : /chem/tracegc81.i/d050930eOLC03.b/olc03_clpest2_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 2000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1100.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
18.42		3073								

1LCE

LOW CONCENTRATION WATER PESTICIDE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

ACSGWPWC26RE

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 782905R Date Received: 09/27/2005

Sample Volume: 500(ML) Date Extracted: 10/05/2005

Concentrated Extract Volume: 1000(UL) Date Analyzed: 10/06/2005

Injection Volume: 1.0(UL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N Extraction: (Sepf/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

Data File: /chem/tracego82.i/m051005c0LC03.b/066m782905.d

Date : 06-OCT-2005 19:47

Client ID: ACSGWPWC26RE

Instrument: tracego82.i

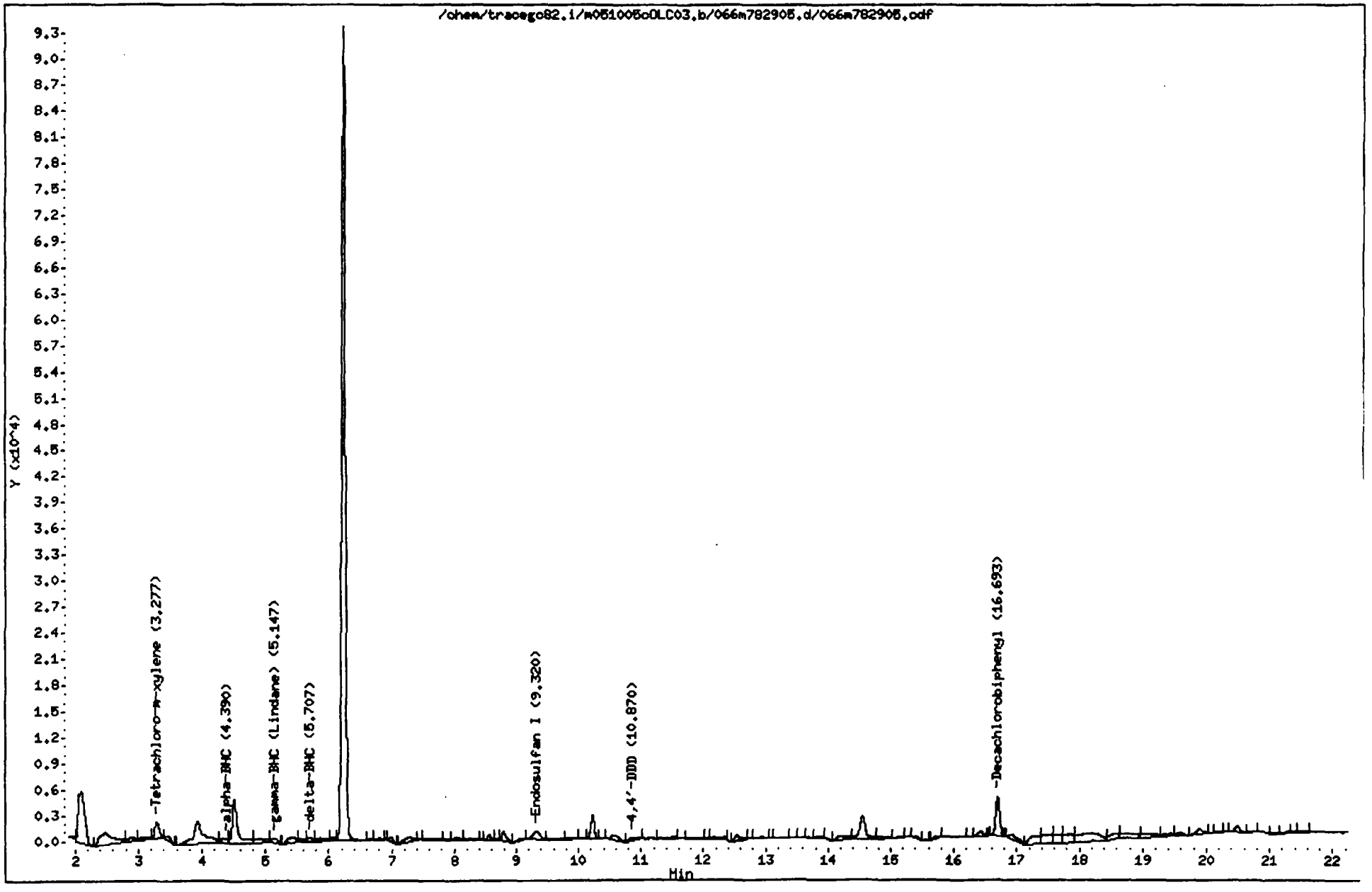
Sample Info: 782905R

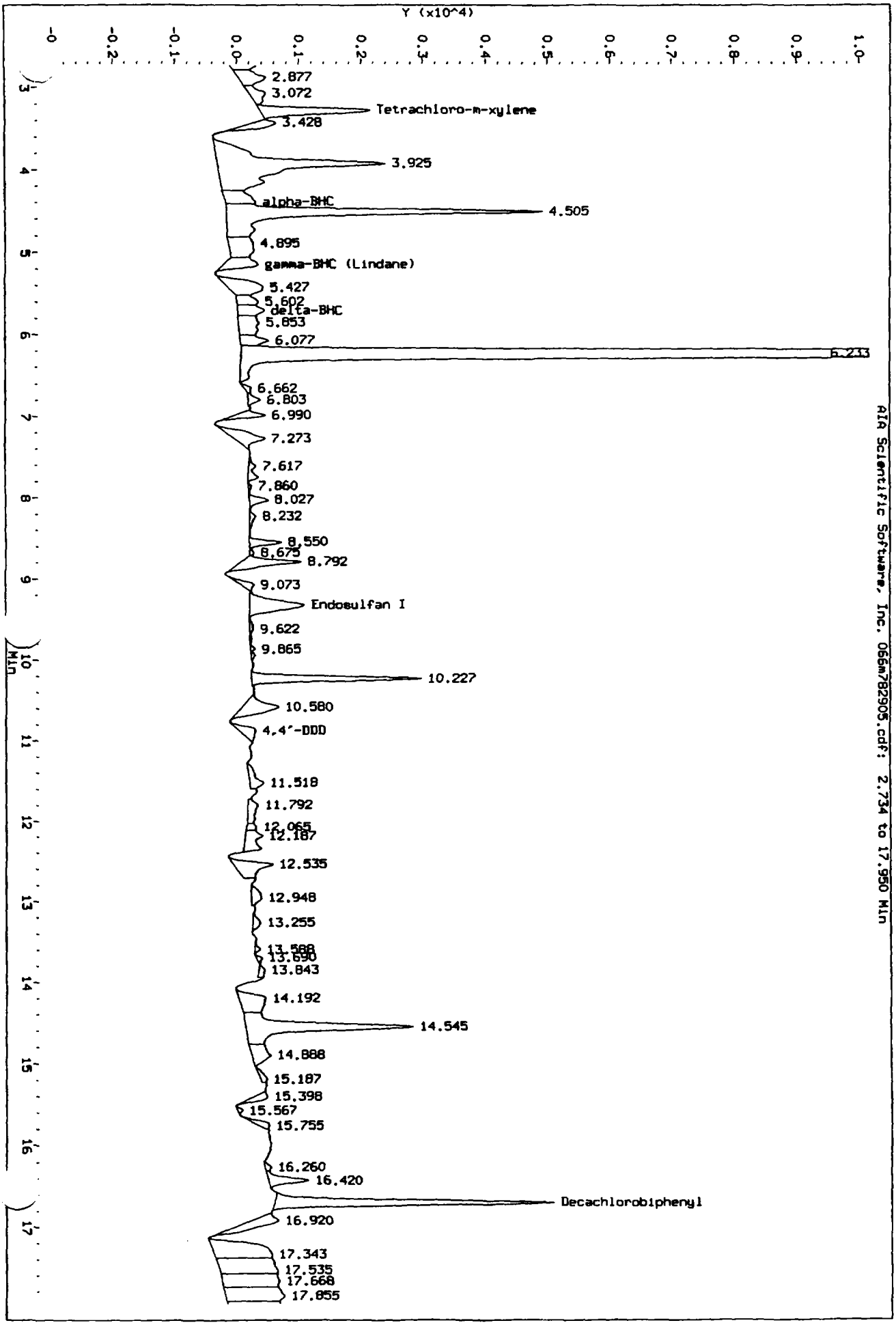
Volume Injected (uL): 1.0

Operator: 2461

Column phase: olpest

Column diameter: 0.53




Data File: /chem/tracegc82.i/m051005cDLC03.b/066m782905.d/066m782905.cdf
Injection Date: 06-OCT-2005 19:47
Instrument: tracegc82.i
Client Sample ID: ACSGWPWC26RE
Y (x10^4)
-0
-0.2
-0.1
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
Min
2.877
3.072
Tetrachloro-m-xylene
3.428
3.925
alpha-BHC
4.505
4.895
gamma-BHC (Lindane)
5.427
5.602
delta-BHC
5.853
6.077
6.233
6.662
6.803
6.990
7.273
7.617
7.860
8.027
8.232
8.550
8.675
8.792
9.073
Endosulfan I
9.622
9.865
10.227
10.580
4,4'-DDD
11.518
11.792
12.065
12.187
12.535
12.948
13.255
13.588
13.690
13.843
14.192
14.545
14.888
15.187
15.398
15.567
15.755
16.260
16.420
Decachlorobiphenyl
16.920
17.343
17.535
17.668
17.855
AIA Scientific Software, Inc. 066m782905.cdf: 2.734 to 17.950 Min

CompuChem Environmental Corporation

Lab Smp Id : 782905R Client Smp Id : ACSGWPWC26RE
Sample Type : SAMPLE Sublist : olm03
Inj Date : 06-OCT-2005 19:47 Inst ID : TRACEGC82
Operator : 2461
Method : /chem/tracegc82.i/m051005cOLC03.b/olc03_clpest_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 500.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
0.15			5379								
0.72			16663								
0.89			962973								
1.32			16393								
1.45			5626								
1.71			6855								
2.10			41604								
2.47			20469								
2.88			3610								
3.07			2353								
3.28	3.21	3.31	8951	719050	Tetrachloro-m-xylene	0.012447	0.024894		62.2	30 - 150	M
3.43			2529								
3.92			31552								
4.39	4.34	4.44	4031	1186150	alpha-BHC	0.003398	0.006795	0.010000			J
4.50			30402								
4.89			5504								
5.15	5.05	5.15	3836	1121350	gamma-BHC (Lindane)	0.003420	0.006840	0.010000			TJ
5.43			5811								
5.60			2152								
5.71	5.66	5.76	2755	1126550	delta-BHC	0.002445	0.004889	0.010000			J
5.85			4255								
6.08			2582								
6.23			355237								
6.66			498								
6.80			984								
6.99			2127								
7.27			4401								
7.62			1411								
7.86			216								
8.03			1444								
8.23			713								
8.55			2015								
8.68			264								
8.79			5187								
9.07			1294								
9.32	9.21	9.35	7262	1100200	Endosulfan I	0.006600	0.013199	0.010000			
9.62			580								

CompuChem Environmental Corporation

Lab Smp Id : 782905R Client Smp Id : ACSGWPWC26RE
Sample Type : SAMPLE Sublist : olm03
Inj Date : 06-OCT-2005 19:47 Inst ID :
Operator : 2461
Method : /chem/tracegc82.i/m051005cOLC03.b/olc03_clpest_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 500.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
9.87		478								
10.23		10951								
10.58		5283								
10.87	10.84 10.98	2269	709125	4,4'-DDD	0.003198	0.006397	0.020000			J
11.52		2180								
11.79		2095								
12.06		745								
12.19		3415								
12.54		4856								
12.95		1584								
13.26		912								
13.59		348								
13.69		352								
13.84		696								
[illegible]		5275								
		19677								
[illegible]9		3364								
15.19		761								
15.40		1492								
15.57		255								
15.76		1200								
16.26		464								
16.42		3200								
16.69	16.57 16.77	20037	1191025	Decachlorobiphenyl	0.016822	0.033645		84.1	30 - 150	M
16.92		4827								
17.34		10552								
17.54		10620								
17.67		8852								
17.86		9747								
18.25		22900								
18.63		5966								
18.76		9493								
19.03		6410								
19.42		3145								
19.59		2258								
19.89		4850								
20.21		729								

CompuChem Environmental Corporation

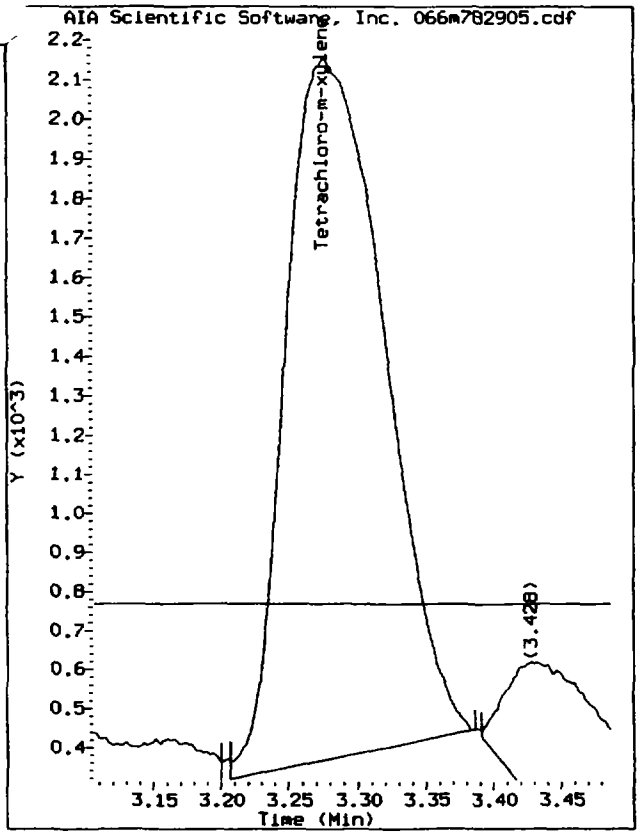
Lab Smp Id : 782905R Client Smp Id : ACSGWPWC26RE
Sample Type : SAMPLE Sublist : olm03
Inj Date : 06-OCT-2005 19:47 Inst ID :
Operator : 2461
Method : /chem/tracegc82.i/m051005cOLC03.b/olc03_clpest_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

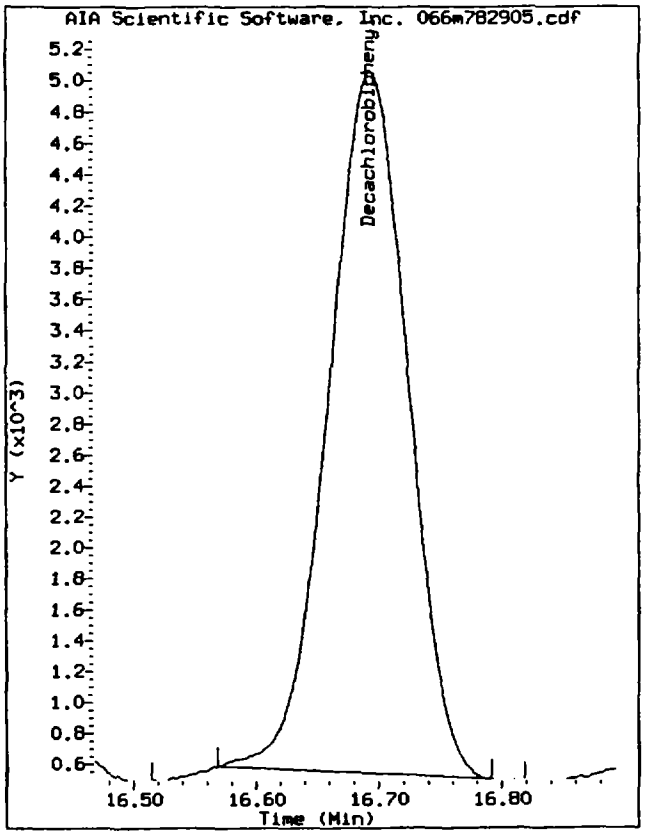
DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 500.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
20.49		3880								
20.75		484								
21.09		434								
21.27		713								
21.41		508								
21.53		1405								

Manually Integrated Peaks



Start: 3.21 Stop: 3.39



Start: 16.57 Stop: 16.79

Data File: /chem/tracego83.i/m051005c0LC03.b/066m782905.d

Page 1

Date : 06-OCT-2005 19:47

Client ID: ACSGWPWC26RE

Instrument: tracego83.i

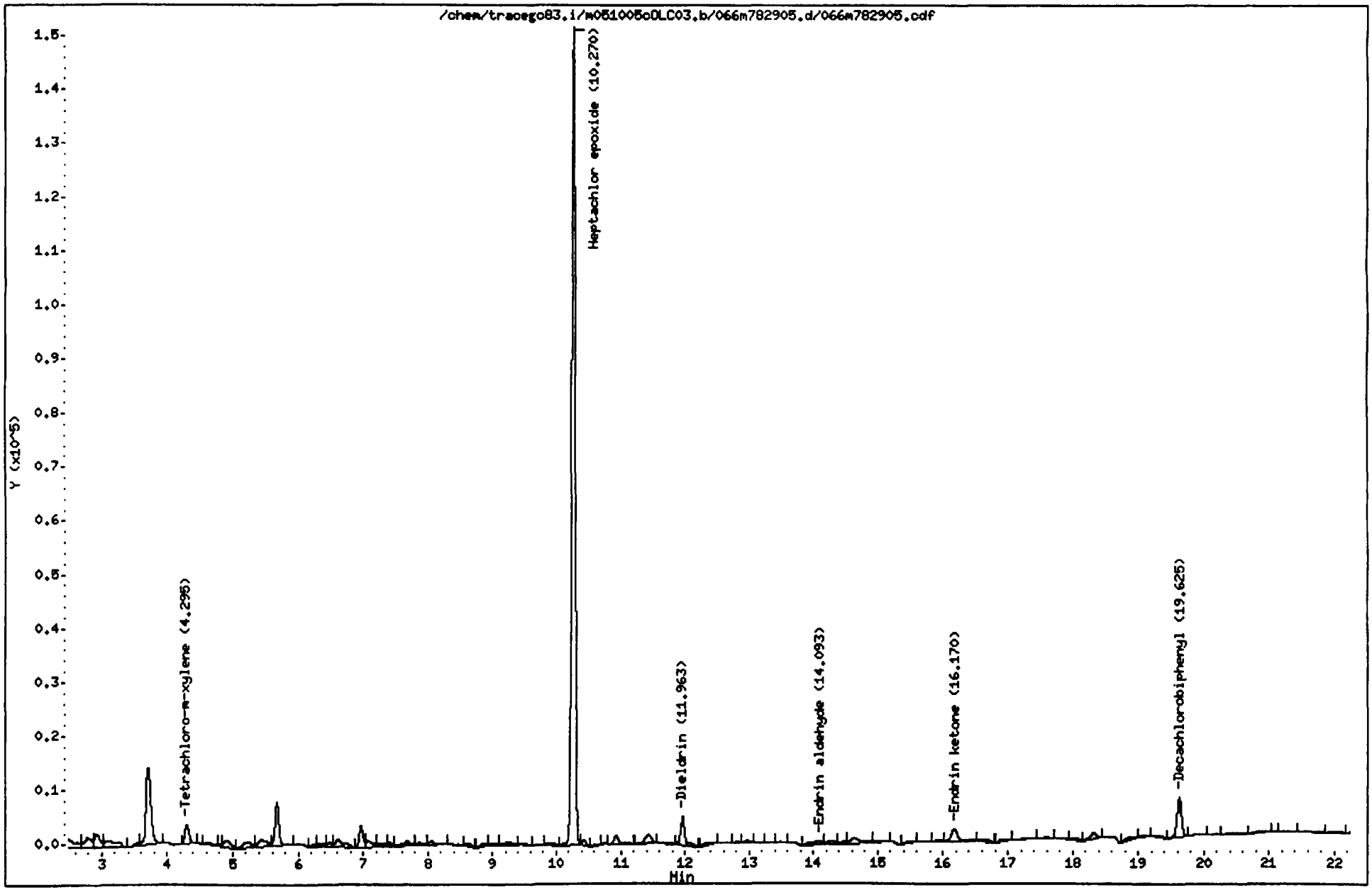
Sample Info: 782905R

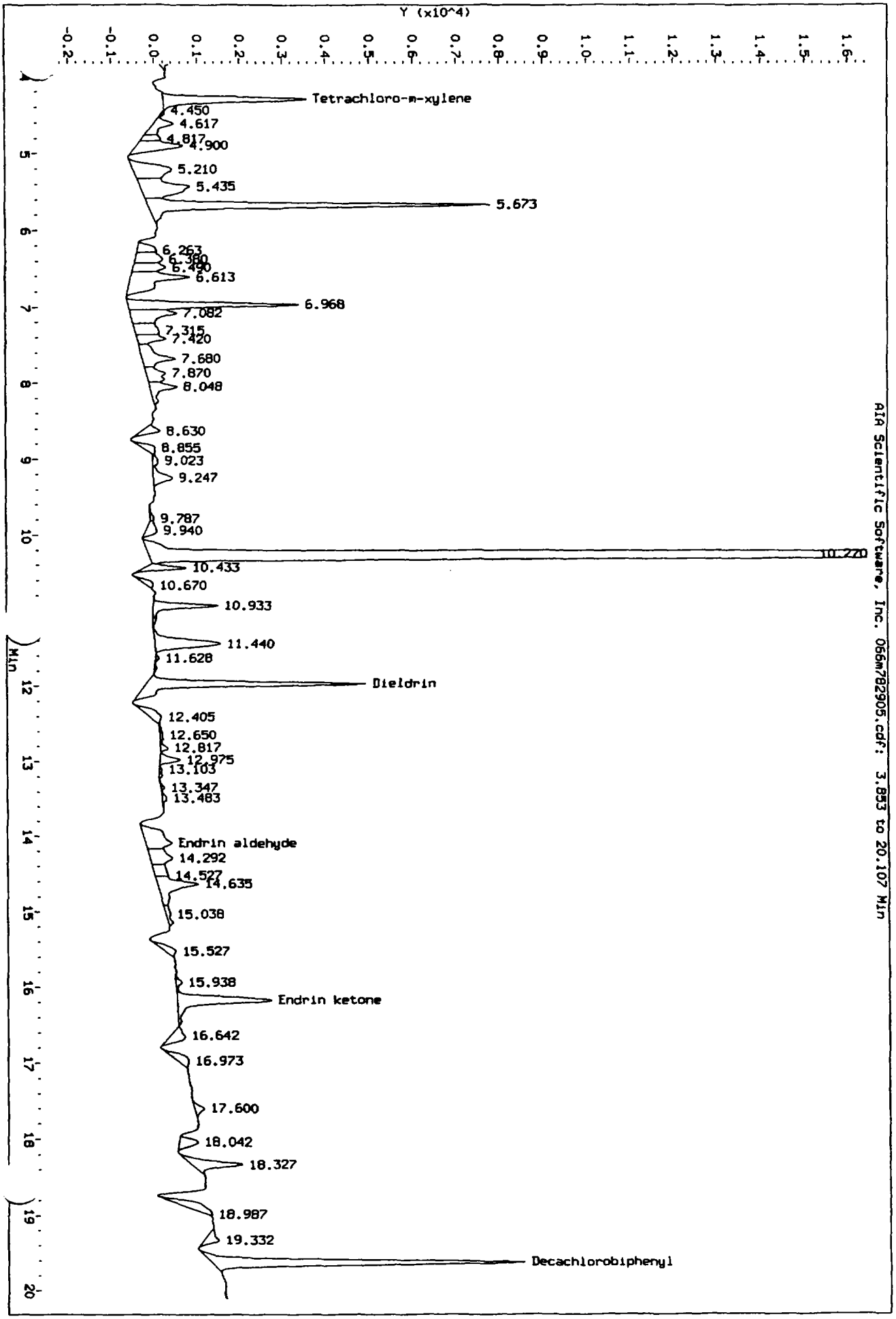
Volume Injected (uL): 1.0

Operator: 2461

Column phase: olpest2

Column diameter: 0.53




Data File: /chem/tracegc83.i/m051005c0LC03.b/066m782905.d/066m782905.cdf
Injection Date: 06-OCT-2005 19:47
Instrument: tracegc83.i
Client Sample ID: ACSGWPWC26RE
Y (x10^4)
Tetrachloro-m-xylene
4.450
4.617
4.817
4.900
5.210
5.435
5.673
6.263
6.380
6.490
6.613
6.968
7.082
7.315
7.420
7.680
7.870
8.048
8.630
8.855
9.023
9.247
9.787
9.940
10.220
10.433
10.670
10.933
11.440
11.628
Dieldrin
12.405
12.650
12.817
12.975
13.103
13.347
13.483
Endrin aldehyde
14.292
14.527
14.635
15.038
15.527
15.938
Endrin ketone
16.642
16.973
17.600
18.042
18.327
18.987
19.332
Decachlorobiphenyl
Min
AIA Scientific Software, Inc. 066m782905.cdf: 3.853 to 20.107 Min

CompuChem Environmental Corporation

Lab Smp Id : 782905R Client Smp Id : ACSGWPWC26RE
Sample Type : SAMPLE Sublist : olm03
Inj Date : 06-OCT-2005 19:47 Inst ID : TRACEGC83
Operator : 2461
Method : /chem/tracegc83.i/m051005cOLC03.b/olc03_clpest2_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 500.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
0.14			6490								
0.91			1792195								
1.40			6319								
1.52			25096								
1.68			26194								
1.85			23133								
2.29			9232								
2.49			19772								
2.78			13840								
2.92			15258								
3.11			16053								
3.55			2960								
3.71			77992								
4.30	4.23	4.33	15818	1069850	Tetrachloro-m-xylene	0.014785	0.029571		73.9	30 - 150	M
4.45			293								
4.62			3759								
4.82			1733								
4.90			7538								
5.21			9147								
5.43			12153								
5.67			33732								
6.26			2554								
6.38			4761								
6.49			4639								
6.61			12602								
6.97			16613								
7.08			8167								
7.32			4789								
7.42			3566								
7.68			7039								
7.87			4066								
8.05			4311								
8.63			2264								
8.86			1897								
9.02			832								
9.25			3243								
9.79			481								

CompuChem Environmental Corporation

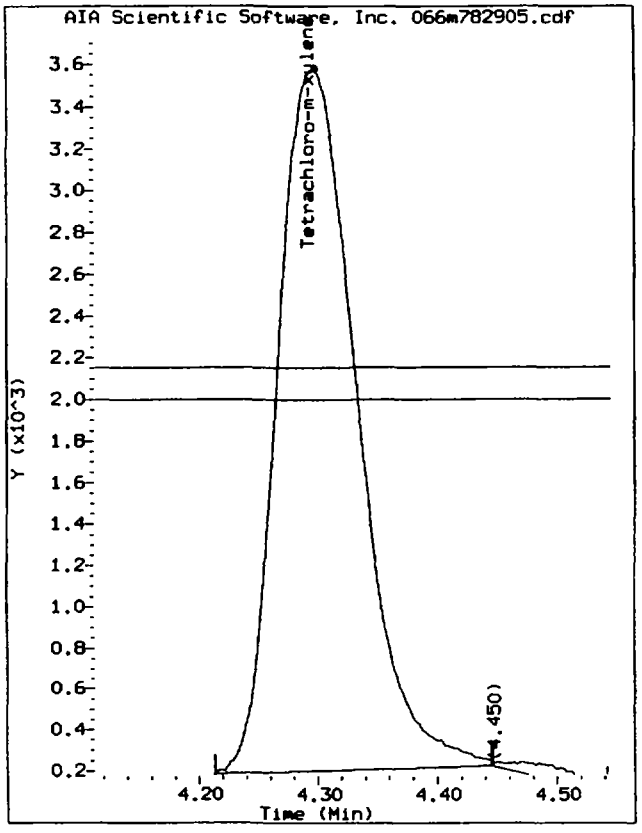
Lab Smp Id : 782905R Client Smp Id : ACSGWPWC26RE
Sample Type : SAMPLE Sublist : olm03
Inj Date : 06-OCT-2005 19:47 Inst ID :
Operator : 2461
Method : /chem/tracegc83.i/m051005cOLC03.b/olc03_clpest2_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 500.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
9.94		2291								
10.27	10.14 10.28	551673	1782000	Heptachlor epoxide	0.309580	0.619160	0.010000			E
10.43		3714								
10.67		1263								
10.93		6838								
11.44		11061								
11.63		610								
11.96	11.83 11.97	23622	1848950	Dieldrin	0.012776	0.025552	0.020000			
12.40		3066								
12.65		673								
12.82		794								
12.97		2304								
13.10		476								
13.35		337								
[illegible]8		579								
[illegible]	14.08 14.22	8335	1196525	Endrin aldehyde	0.006966	0.013932	0.020000			J
[illegible]9		5160								
14.53		2837								
14.63		8519								
15.04		1477								
15.53		2095								
15.94		749								
16.17	16.09 16.23	14412	1712350	Endrin ketone	0.008417	0.016833	0.020000			J
16.64		3357								
16.97		2882								
17.60		1412								
18.04		2789								
18.33		6703								
18.99		4818								
19.33		2454								
19.62	19.51 19.71	33785	1977350	Decachlorobiphenyl	0.017085	0.034171		85.4	30 - 150	
20.20		787								
20.54		3611								
20.99		2021								
21.21		737								
21.70		2780								
22.02		2312								

Manually Integrated Peaks



Start: 4.21 Stop: 4.45

1LCE
LOW CONCENTRATION WATER PESTICIDE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

ACSGWPWD26

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 782907 Date Received: 09/27/2005

Sample Volume: 1100(ML) Date Extracted: 09/28/2005

Concentrated Extract Volume: 2000(UL) Date Analyzed: 10/01/2005

Injection Volume: 1.0(UL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N Extraction: (Sepf/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

Data File: /chem/tracego80.i/d050930e0LC03.b/081d782907.d

Page 1

Date : 01-OCT-2005 22:01

Client ID: ACSGWPWD26

Instrument: tracego80.i

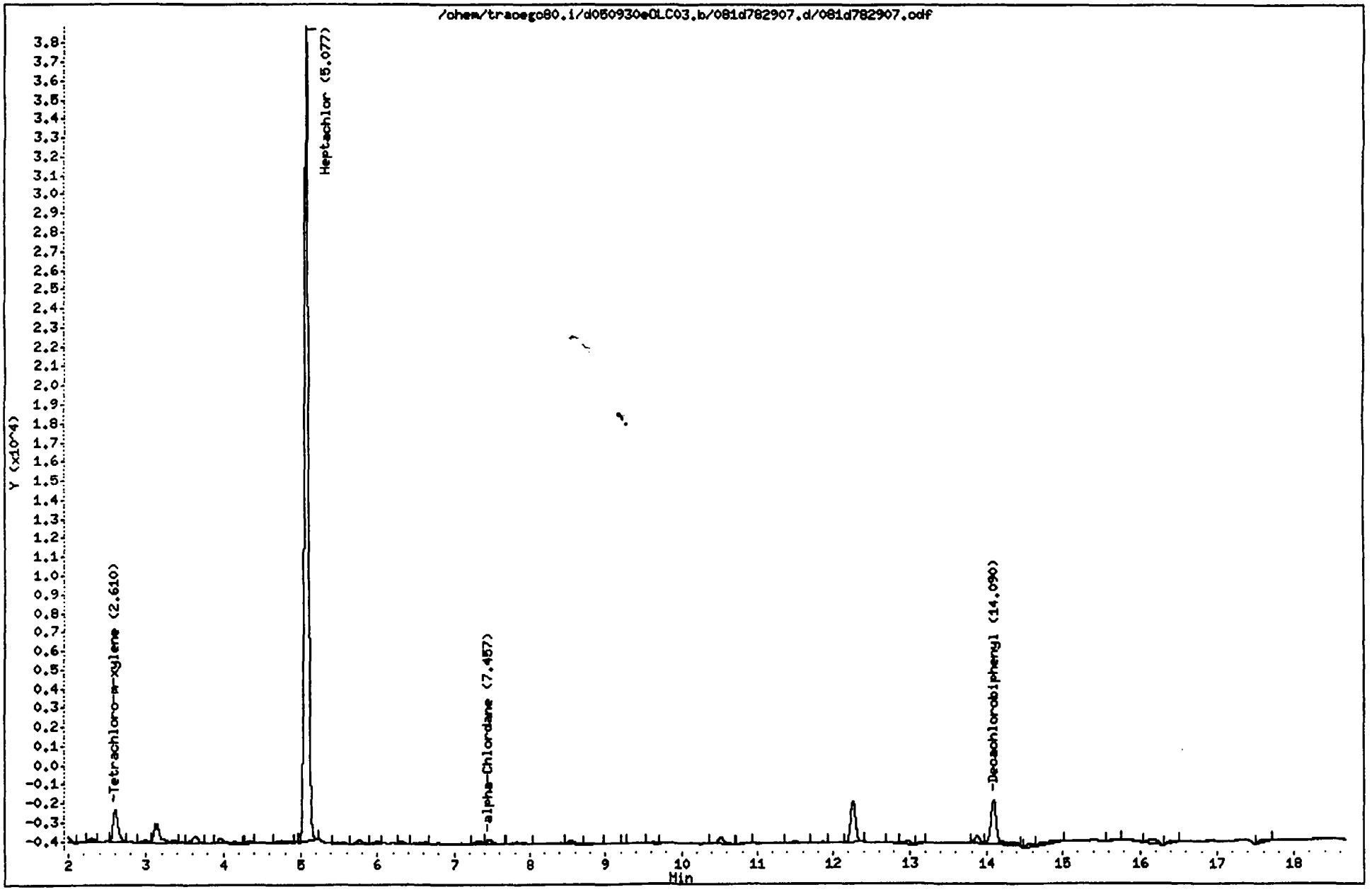
Sample Info: 782907

Volume Injected (uL): 1.0

Operator: 2461

Column phase: olpest

Column diameter: 0.53



CompuChem Environmental Corporation

Lab Smp Id : 782907 Client Smp Id : ACSGWPWD26
Sample Type : SAMPLE Sublist : olm03
Inj Date : 01-OCT-2005 22:01 Inst ID : TRACEGC80
Operator : 2461
Method : /chem/tracegc80.i/d050930eOLC03.b/olc03_clpest_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 2000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1100.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
0.12			791								
0.66			81155								
1.05			3937								
1.13			6425								
1.38			3736								
1.64			7607								
1.95			4833								
2.30			927								
2.61	2.55	2.65	7520	513950	Tetrachloro-m-xylene	0.014632	0.026603		73.2	30 - 150	
2.98			943								
3.13			6408								
3.63			1931								
3.96			2155								
4.34			365								
4.76			1083								
[illegible]8	5.00	5.10	149801	784550	Heptachlor	0.190939	0.347161	0.010000			E
[illegible]7			635								
[illegible]76			1321								
6.00			570								
6.31			662								
6.50			753								
7.32			1080								
7.46	7.42	7.56	1372	554050	alpha-Chlordane	0.002475	0.004499	0.010000			J
7.83			1067								
8.54			978								
8.78			644								
9.04			304								
9.38			483								
9.64			499								
10.51			2150								
10.83			499								
11.49			770								
11.86			425								
12.26			*10567*								
12.81			621								
12.98			1433								
13.16			271								

CompuChem Environmental Corporation

Lab Smp Id : 782907 Client Smp Id : ACSGWPWD26
Sample Type : SAMPLE Sublist : olm03
Inj Date : 01-OCT-2005 22:01 Inst ID :
Operator : 2461
Method : /chem/tracegc80.i/d050930eOLC03.b/olc03_clpest_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 2000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1100.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
13.88		1807								
14.09	13.99 14.19	13087	615700	Decachlorobiphenyl	0.021254	0.038643		106.3	30 - 150	
14.58		1124								
14.96		1777								
15.69		264								
16.15		2200								
16.48		811								
17.68		1014								

Data File: /chem/tracegc81.i/d050930e0LC03.b/081d782907.d

Date : 01-OCT-2005 22:01

Client ID: ACSGWPWD26

Instrument: tracegc81.i

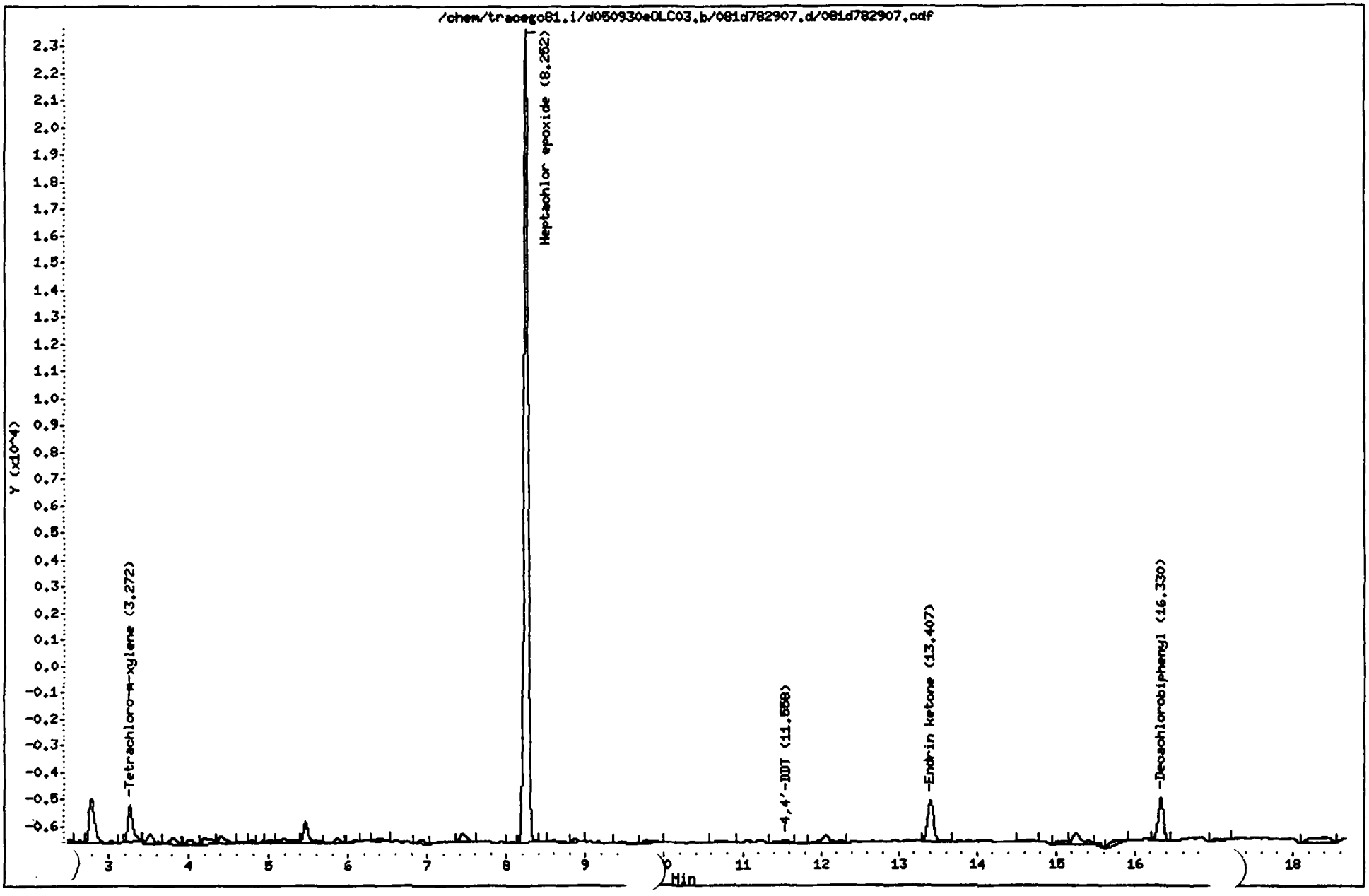
Sample Info: 782907

Volume Injected (uL): 1.0

Operator: 2461

Column phase: olpest2

Column diameter: 0.53



CompuChem Environmental Corporation

Lab Smp Id : 782907 Client Smp Id : ACSGWPWD26
Sample Type : SAMPLE Sublist : olm03
Inj Date : 01-OCT-2005 22:01 Inst ID : TRACEGC81
Operator : 2461
Method : /chem/tracegc81.i/d050930eOLC03.b/olc03_clpest2_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 2000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1100.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
0.13			1582								
0.64			79036								
1.10			5451								
1.38			4492								
1.64			271								
1.86			2006								
2.09			2180								
2.28			1632								
2.49			685								
2.65			590								
2.79			9031								
3.27	3.22	3.32	6192	423700	Tetrachloro-m-xylene	0.014614	0.026571		73.1	30 - 150	M
3.52			2456								
3.81			1895								
4.01			1043								
4.20			1838								
4.42			2152								
4.70			462								
4.79			511								
4.92			287								
5.02			619								
5.20			1496								
5.46			3613								
5.88			1000								
6.09			286								
6.41			580								
6.92			747								
7.45			1876								
8.06			308								
8.25	8.19	8.33	112255	530250	Heptachlor epoxide	0.211700	0.384909	0.010000			E
8.61			465								
8.87			621								
9.46			812								
9.78			1018								
10.73			808								
11.56	11.48	11.62	1448	420675	4,4'-DDT	0.003440	0.006254	0.020000			J
11.76			374								

CompuChem Environmental Corporation

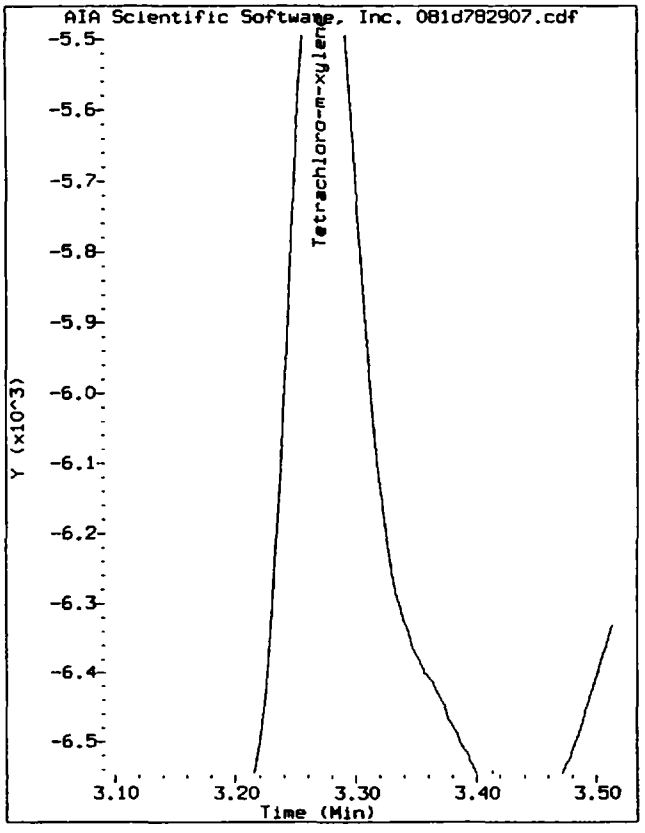
Lab Smp Id : 782907 Client Smp Id : ACSGWPWD26
Sample Type : SAMPLE Sublist : olm03
Inj Date : 01-OCT-2005 22:01 Inst ID :
Operator : 2461
Method : /chem/tracegc81.i/d050930eOLC03.b/olc03_clpest2_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 2000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1100.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
12.06		2763								
13.41	13.28 13.42	8078	414175	Endrin ketone	0.019501	0.035457	0.020000			
14.60		505								
15.10		1225								
15.25		3683								
15.55		508								
15.83		1809								
16.33	16.23 16.43	7725	482325	Decachlorobiphenyl	0.016014	0.029117		80.1	30 - 150	
17.16		727								
18.41		3478								

Manually Integrated Peaks



Start: 3.19 Stop: 3.41

1LCE

LOW CONCENTRATION WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSGWPWD26RE

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 782907R Date Received: 09/27/2005

Sample Volume: 500(ML) Date Extracted: 10/05/2005

Concentrated Extract Volume: 1000(UL) Date Analyzed: 10/06/2005

Injection Volume: 1.0(UL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N Extraction: (Sepf/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

Data File: /chem/tracego82.i/m051005o0LC03.b/067m782907.d

Date : 06-OCT-2005 20:13

Client ID: ACSGWPWD26RE

Instrument: tracego82.i

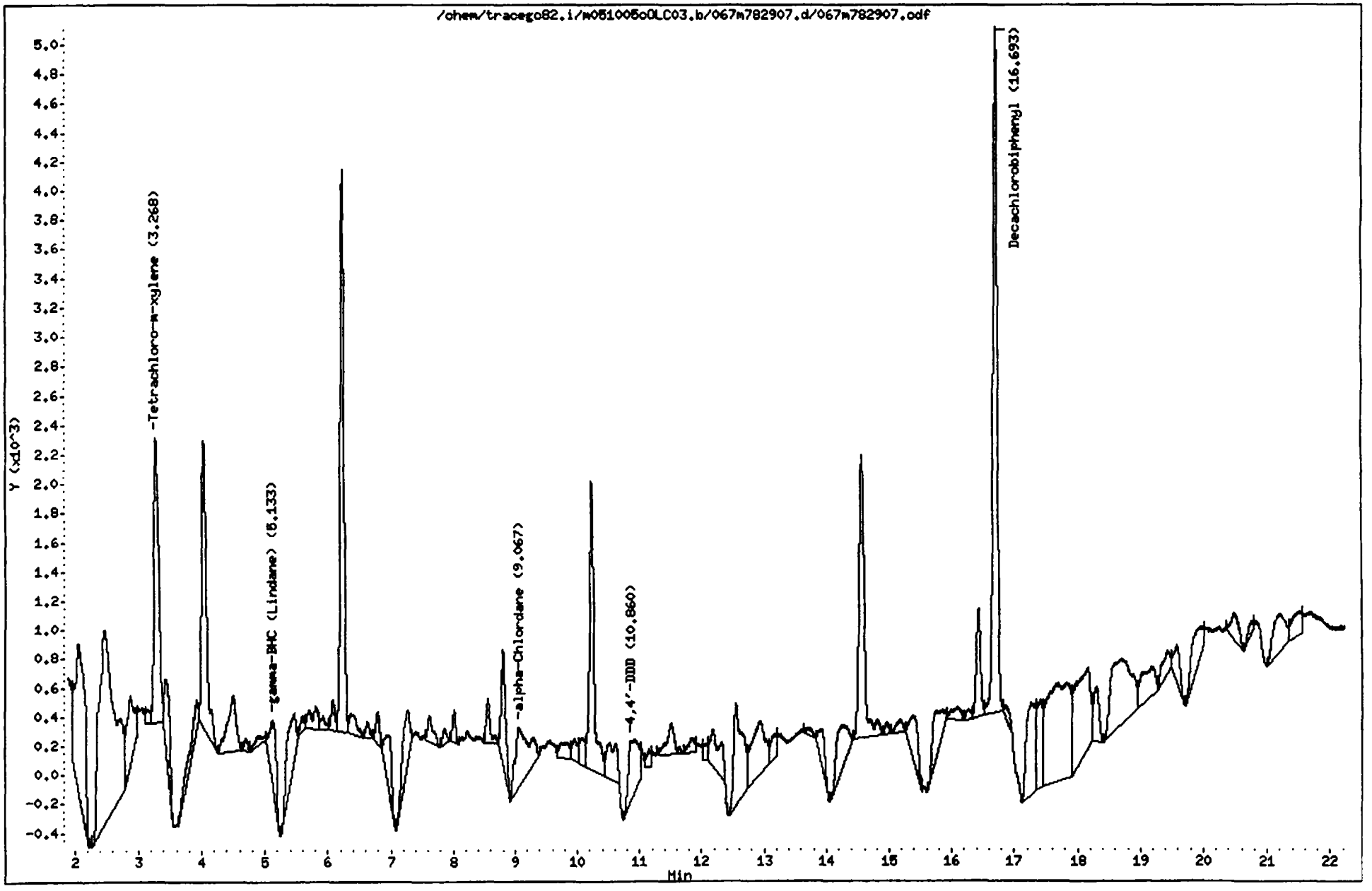
Sample Info: 782907R

Volume Injected (uL): 1.0 KM 10/10/05

Operator: 2461

Column phase: olpest

Column diameter: 0.53



CompuChem Environmental Corporation

Lab Smp Id : 782907R Client Smp Id : ACSGWPWD26RE
Sample Type : SAMPLE Sublist : olm03
Inj Date : 06-OCT-2005 20:13 Inst ID : TRACEGC82
Operator : 2461
Method : /chem/tracegc82.i/m051005cOLC03.b/olc03_clpest_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 500.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
0.14			6667								
0.72			24656								
0.89			808221								
1.14			39271								
1.32			18172								
1.44			8313								
1.71			5939								
2.06			11825								
2.47			22368								
2.88			4016								
3.16			419								
3.27	3.21	3.31	10190	719050	Tetrachloro-m-xylene	0.014171	0.028343		70.9	30 - 150	
3.42			3459								
3.92			2210								
03			10464								
9			3688								
69			352								
4.89			582								
5.13	5.05	5.15	3220	1121350	gamma-BHC (Lindane)	0.002872	0.005743	0.010000			J
5.47			4144								
5.60			393								
5.70			1306								
5.92			469								
6.08			864								
6.22			15174								
6.36			1135								
6.62			446								
6.79			894								
6.95			2584								
7.27			3366								
7.62			1167								
7.87			502								
8.01			837								
8.54			1436								
8.79			4164								
9.07	8.93	9.07	5985	981750	alpha-Chlordane	0.006095	0.012190	0.010000			
9.74			1142								

CompuChem Environmental Corporation

Lab Smp Id : 782907R Client Smp Id : ACSGWPWD26RE
Sample Type : SAMPLE Sublist : olm03
Inj Date : 06-OCT-2005 20:13 Inst ID :
Operator : 2461
Method : /chem/tracegc82.i/m051005cOLC03.b/olc03_clpest_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 500.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
9.95		922								
10.07		1293								
10.22		10138								
10.52		2912								
10.86	10.84 10.98	4434	709125	4,4'-DDD	0.006251	0.012503	0.020000			J
11.14		560								
11.51		1800								
11.84		756								
12.07		633								
12.18		2766								
12.54		6812								
12.94		5701								
13.15		1115								
13.70		328								
13.93		1702								
14.28		3899								
14.54		11560								
14.96		327								
15.18		639								
15.37		2885								
15.73		3291								
16.09		961								
16.25		356								
16.42		3535								
16.69	16.57 16.77	21796	1191025	Decachlorobiphenyl	0.018299	0.036599		91.5	30 - 150	M
16.86		521								
17.25		6281								
17.41		3395								
17.68		17354								
18.16		10175								
18.29		2242								
18.69		10148								
19.02		3294								
19.42		1361								
19.57		1881								
19.94		3017								
20.48		1651								

CompuChem Environmental Corporation

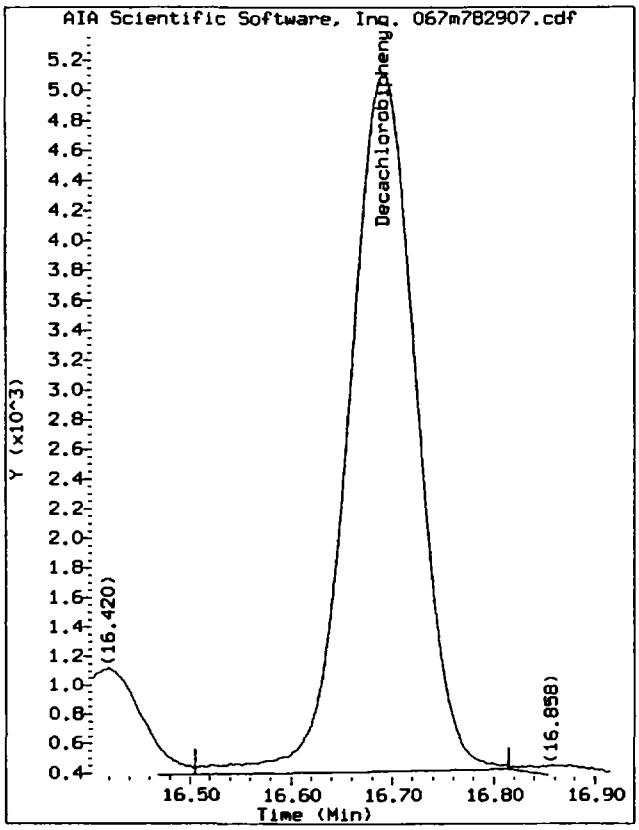
Lab Smp Id : 782907RE 10/10/05 Client Smp Id : ACSGWPWD26RE
Sample Type : SAMPLE Sublist : olm03
Inj Date : 06-OCT-2005 20:13 Inst ID :
Operator : 2461
Method : /chem/tracegc82.i/m051005cOLC03.b/olc03_clpest_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 500.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
20.77		570								
21.20		3417								
21.51		1852								

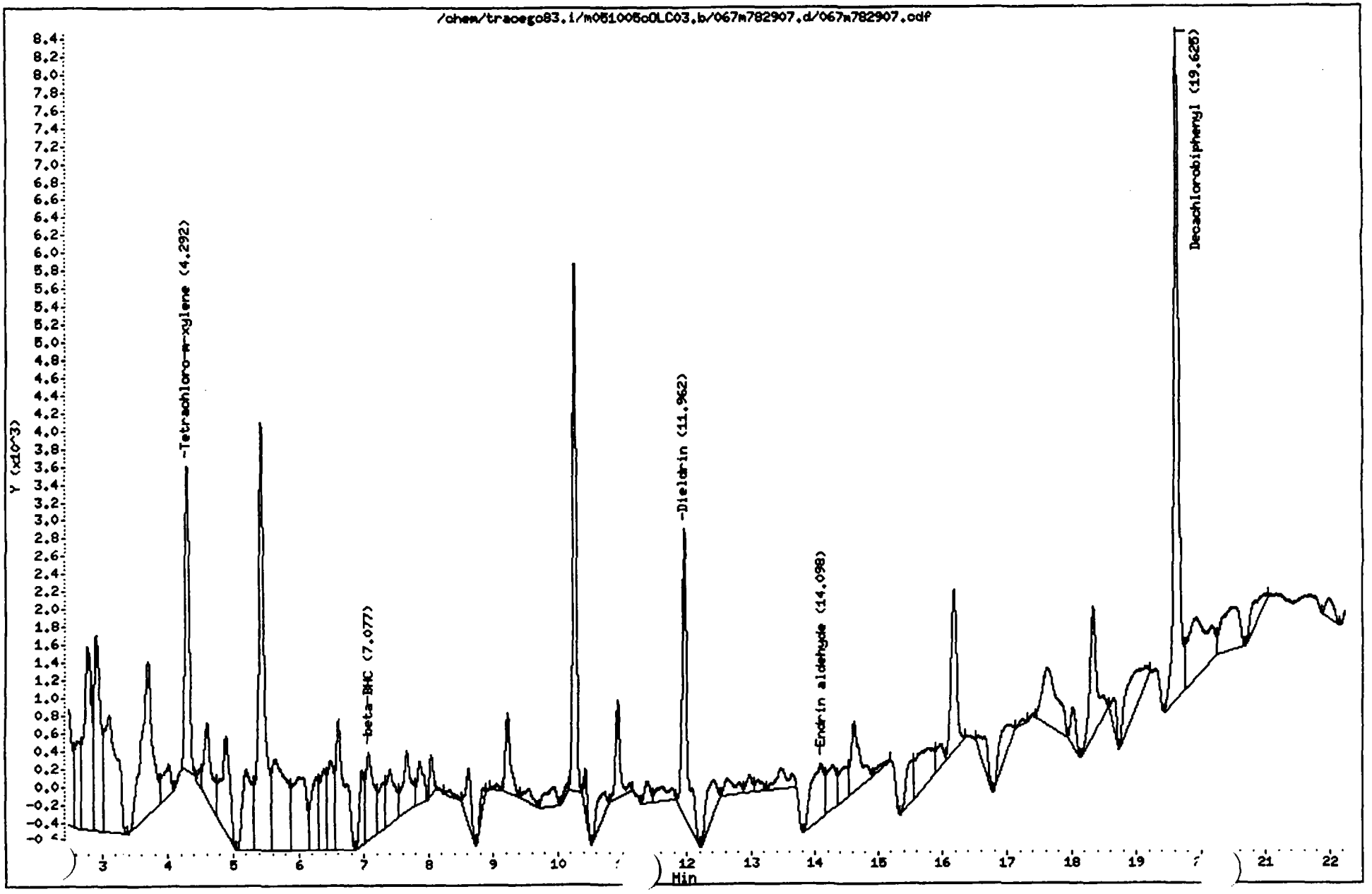
Manually Integrated Peaks



Start: 16.50 Stop: 16.82

Data File: /chem/tracego83.i/m051005o0LC03.b/067m782907.d
Date : 06-OCT-2005 20:13
Client ID: ACSGWPWD26RE
Sample Info: 782907R
Volume Injected (uL): 1.0
Column phase: olpest2

Instrument: tracego83.i
Operator: 2461
Column diameter: 0.53



CompuChem Environmental Corporation

Lab Smp Id : 782907R Client Smp Id : ACSGWPWD26RE
Sample Type : SAMPLE Sublist : olm03
Inj Date : 06-OCT-2005 20:13 Inst ID : TRACEGC83
Operator : 2461
Method : /chem/tracegc83.i/m051005cOLC03.b/olc03_clpest2_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 500.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
0.14			5335								
0.91			1560918								
1.36			15064								
1.52			25817								
1.67			28334								
1.85			24094								
2.29			4985								
2.49			15287								
2.64			6218								
2.78			16169								
2.91			14937								
3.11			17652								
3.69			19669								
4.02			3165								
4.29	4.23	4.33	15307	1069850	Tetrachloro-m-xylene	0.014308	0.028616		71.5	30 - 150	M
4.50			674								
4.61			6745								
4.89			9710								
5.20			8789								
5.43			31022								
5.66			15574								
6.01			12155								
6.28			6143								
6.39			6585								
6.50			6484								
6.61			13892								
6.97			4067								
7.08	6.98	7.08	8611	807050	beta-BHC	0.010668	0.021337	0.010000			
7.30			3242								
7.41			5972								
7.67			5790								
7.87			3265								
8.05			1766								
8.33			558								
8.62			3531								
8.85			1175								
9.07			330								

CompuChem Environmental Corporation

Lab Smp Id : 782907R
Sample Type : SAMPLE
Inj Date : 06-OCT-2005 20:13
Operator : 2461
Method : /chem/tracegc83.i/m051005cOLC03.b/olc03_clpest2_1ulv2.m
Misc. Info : None

Client Smp Id : ACSGWPWD26RE
Sublist : olm03
Inst ID :

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 500.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
9.23		4828								
9.55		1261								
9.93		2524								
10.16		415								
10.27		21696								
10.43		1730								
10.73		3052								
10.93		5409								
11.39		1508								
11.61		2559								
11.96	11.83 11.97	17129	1848950	Dieldrin	0.009264	0.018528	0.020000			J
12.42		4745								
12.64		2062								
12.98		1067								
13.10		928								
7		3150								
0	14.08 14.22	8715	1196525	Endrin aldehyde	0.007284	0.014567	0.020000			J
14.29		5054								
14.49		4025								
14.63		7505								
15.16		669								
15.52		3713								
15.78		7677								
15.97		2036								
16.17		11133								
16.56		2882								
17.02		4595								
17.23		391								
17.62		10861								
18.02		2366								
18.33		10916								
18.66		1663								
19.08		8681								
19.62	19.51 19.71	38820	1977350	Decachlorobiphenyl	0.019632	0.039264		98.2	30 - 150	
19.91		13773								
20.48		9156								
21.00		3610								

CompuChem Environmental Corporation

7

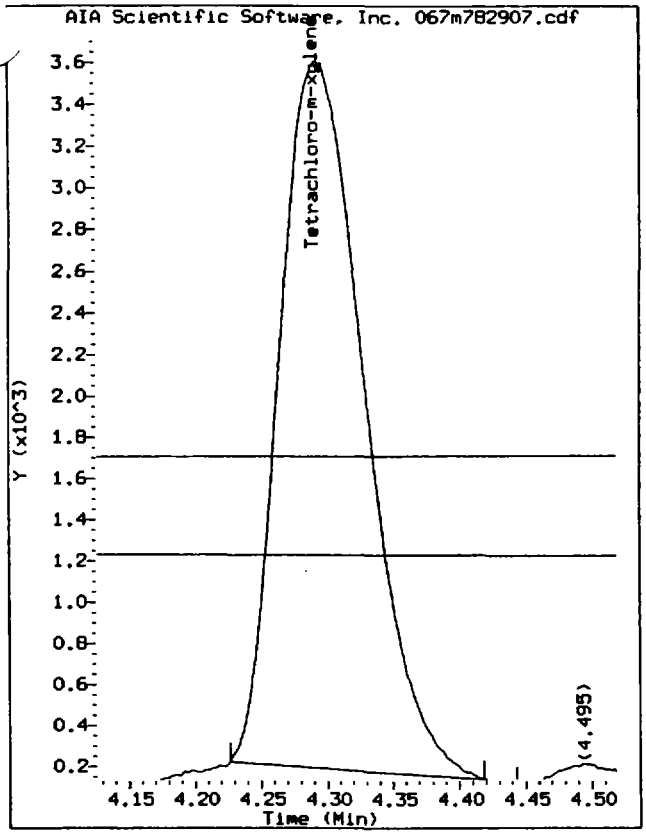
Lab Smp Id : 782907R KM 10/10/05 Client Smp Id : ACSGWPWD26RE
Sample Type : SAMPLE Sublist : olm03
Inj Date : 06-OCT-2005 20:13 Inst ID :
Operator : 2461
Method : /chem/tracegc83.i/m051005cOLC03.b/olc03_clpest2_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 500.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
22.00		1997								

Manually Integrated Peaks



Start: 4.23 Stop: 4.42

1LCE

LOW CONCENTRATION WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSGWPWDUP26

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 782902 Date Received: 09/26/2005

Sample Volume: 1050(ML) Date Extracted: 09/28/2005

Concentrated Extract Volume: 2000(UL) Date Analyzed: 10/01/2005

Injection Volume: 1.0(UL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N Extraction: (Sepf/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

Data File: /chem/tracego80.i/d050930d0LC03.b/070d782902.d

Date : 01-OCT-2005 18:03

Client ID: ACSGWPWDUP26

Instrument: tracego80.i

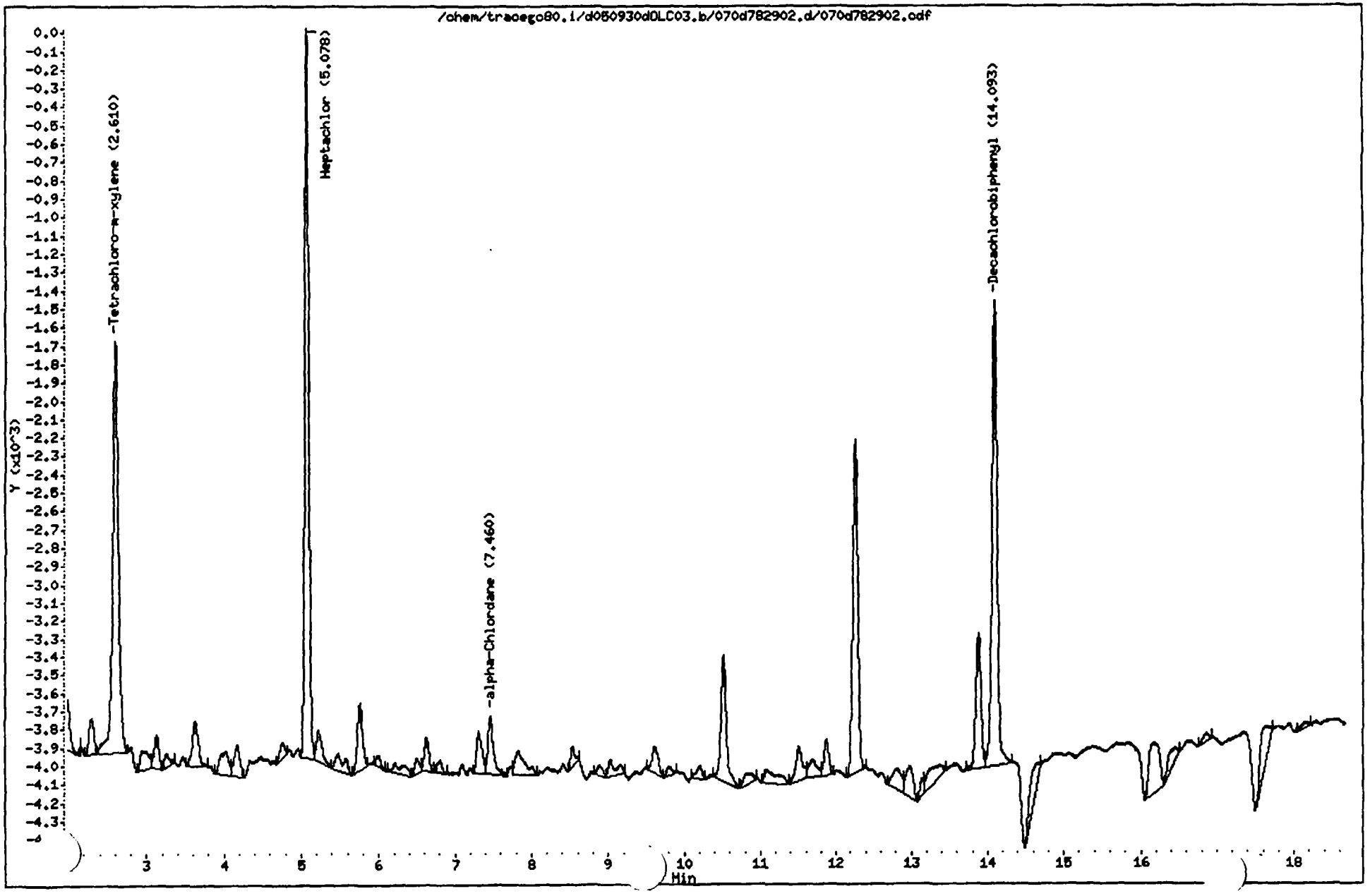
Sample Info: 782902

Volume Injected (uL): 1.0

Operator: 2461

Column phase: clpest

Column diameter: 0.53



CompuChem Environmental Corporation

Lab Smp Id : 782902 Client Smp Id : ACSGWPWDUP26
Sample Type : SAMPLE Sublist : olm03
Inj Date : 01-OCT-2005 18:03 Inst ID : TRACEGC80
Operator : 2461
Method : /chem/tracegc80.i/d050930dOLC03.b/olc03_clpest_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 2000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1050.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
0.13			879								
0.66			134120								
1.05			6315								
1.13			12752								
1.36			4163								
1.61			1403								
1.87			2470								
1.94			3694								
2.30			862								
2.61	2.55	2.65	11606	513950	Tetrachloro-m-xylene	0.022580	0.043010		112.9	30 - 150	
2.95			820								
3.14			752								
3.27			333								
3.63			1343								
4.03			1027								
4.17			897								
4.77			358								
5.08	5.00	5.10	13903	784550	Heptachlor	0.017720	0.033752	0.010000			
5.23			894								
5.47			773								
5.76			1685								
6.00			246								
6.21			564								
6.50			329								
6.63			757								
6.80			323								
7.32			1147								
7.46	7.42	7.56	1604	554050	alpha-Chlordane	0.002895	0.005514	0.010000			J
7.83			1207								
8.54			429								
8.88			282								
9.03			648								
9.62			817								
9.81			246								
10.20			364								
10.52			3387								
10.84			460								

CompuChem Environmental Corporation

Lab Smp Id : 782902 Client Smp Id : ACSGWPWDUP26
Sample Type : SAMPLE Sublist : olm03
Inj Date : 01-OCT-2005 18:03 Inst ID :
Operator : 2461
Method : /chem/tracegc80.i/d050930dOLC03.b/olc03_clpest_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 2000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1050.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
11.09		904								
11.50		1121								
11.69		727								
11.87		875								
12.26		8629								
12.82		995								
12.98		1134								
13.14		361								
13.38		1171								
13.88		3549								
14.09	13.99 14.19	12045	615700	Decachlorobiphenyl	0.019561	0.037260		97.8	30 - 150	
14.66		1528								
16.19		2631								
16.45		765								
16.86		242								
56		1782								
4		199								

Data File: /chem/tracegc81.i/d050930d0LC03.b/070d782902.d

Page 1

Date : 01-OCT-2005 18:03

Client ID: ACSCWPWDUP26

Instrument: tracegc81.i

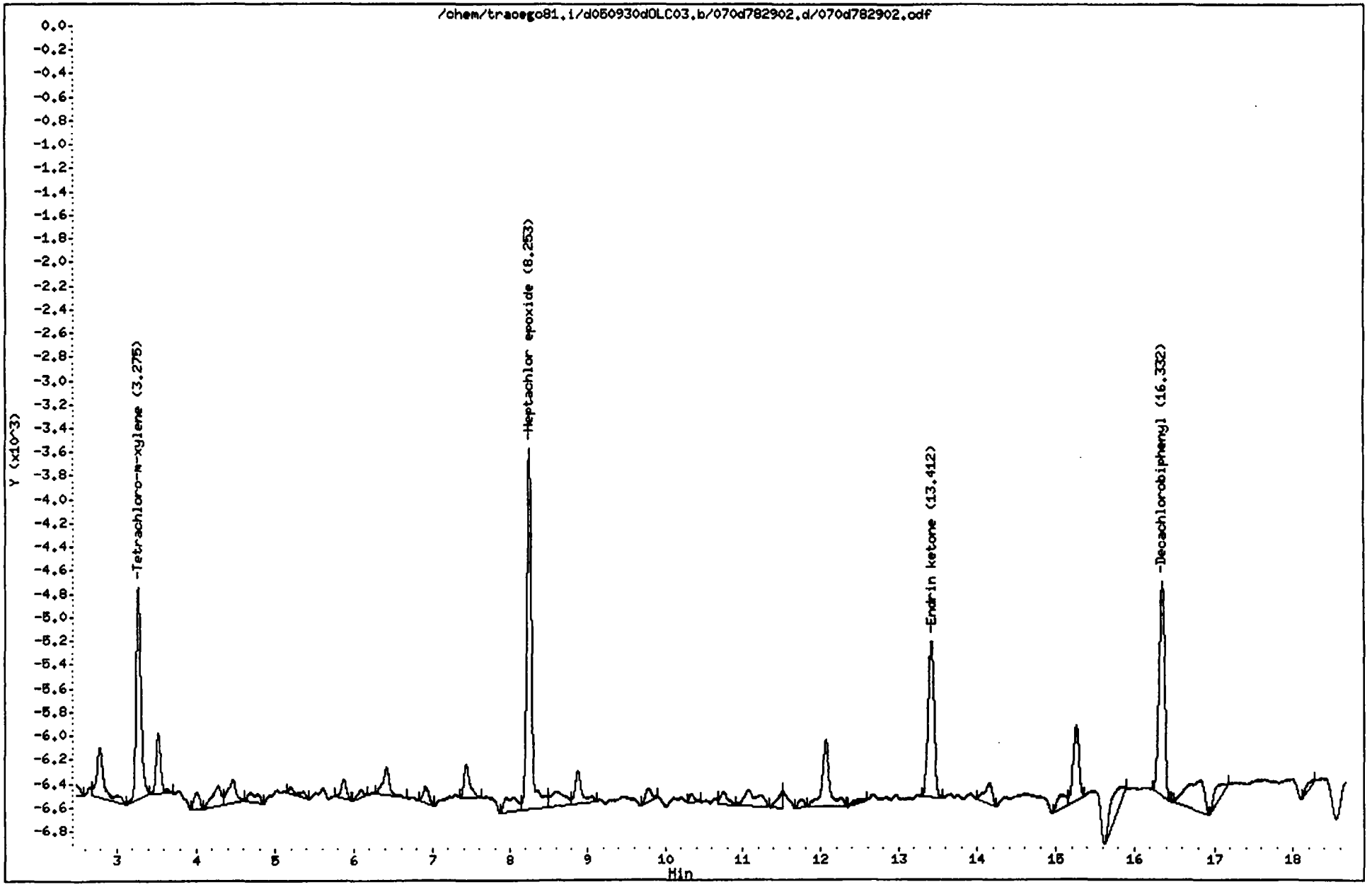
Sample Info: 782902

Volume Injected (uL): 1.0

Operator: 2461

Column phase: olpest2

Column diameter: 0.53



CompuChem Environmental Corporation

Lab Smp Id : 782902 Client Smp Id : ACSGWPWDUP26
Sample Type : SAMPLE Sublist : olm03
Inj Date : 01-OCT-2005 18:03 Inst ID : TRACEGC81
Operator : 2461
Method : /chem/tracegc81.i/d050930dOLC03.b/olc03_clpest2_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 2000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1050.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
0.13			1292								
0.64			121017								
1.10			11222								
1.63			1635								
1.84			797								
2.10			3812								
2.27			2405								
2.49			540								
2.79			2719								
3.28	3.22	3.32	7788	423700	Tetrachloro-m-xylene	0.018381	0.035011		91.9	30 - 150	
3.52			2193								
4.01			702								
4.29			1334								
4.47			1365								
4.69			704								
`0			498								
7			784								
5.10			346								
6.42			1439								
6.92			673								
7.44			1491								
7.96			1454								
8.25	8.19	8.33	13032	530250	Heptachlor epoxide	0.024575	0.046810	0.010000			
8.61			1539								
8.88			1788								
9.80			625								
10.34			315								
10.75			646								
11.07			1758								
11.52			694								
11.76			359								
12.06			3914								
12.54			293								
13.41	13.28	13.42	6983	414175	Endrin ketone	0.016858	0.032110	0.020000			
14.15			1161								
15.07			887								
15.26			3318								

CompuChem Environmental Corporation

Lab Smp Id : 782902 Client Smp Id : ACSGWPWDUP26
Sample Type : SAMPLE Sublist : olm03
Inj Date : 01-OCT-2005 18:03 Inst ID :
Operator : 2461
Method : /chem/tracegc81.i/d050930dOLC03.b/olc03_clpest2_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 2000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1050.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
15.84		2192								
16.33	16.23 16.43	8682	482325	Decachlorobiphenyl	0.018000	0.034286		90.0	30 - 150	
16.83		4043								
17.13		1216								
18.27		319								

1LCE
LOW CONCENTRATION WATER PESTICIDE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

ACSGWPWDUP26RE

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 782902R Date Received: 09/26/2005

Sample Volume: 500(ML) Date Extracted: 10/05/2005

Concentrated Extract Volume: 1000(UL) Date Analyzed: 10/06/2005

Injection Volume: 1.0(UL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N Extraction: (Sepf/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

Data File: /chem/tracego82.i/m051005o0LC03.b/063m782902.d

Page 1

Date : 06-OCT-2005 18:31

Client ID: ACSGWPWDUP26RE

Instrument: tracego82.i

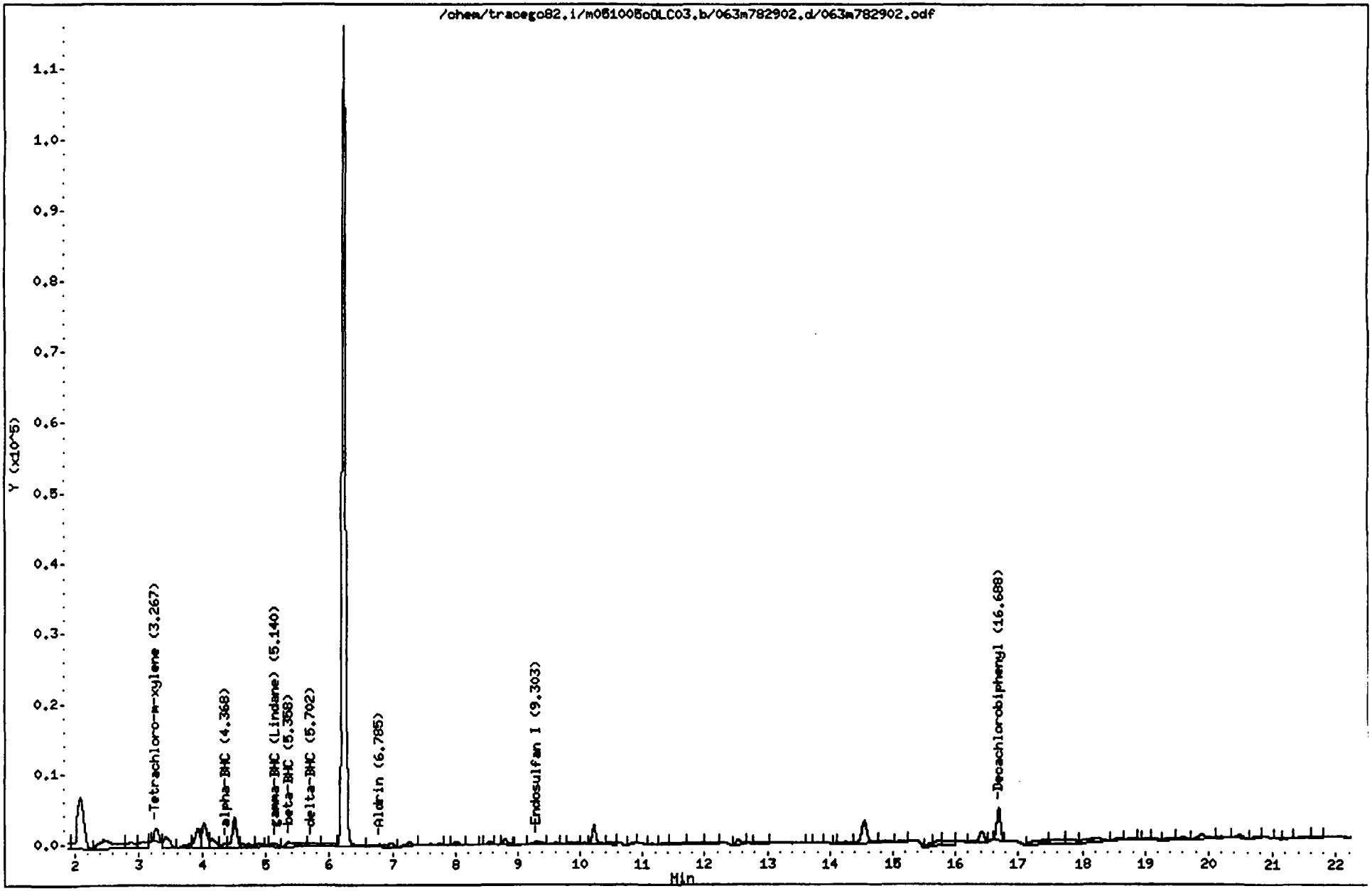
Sample Info: 782902R

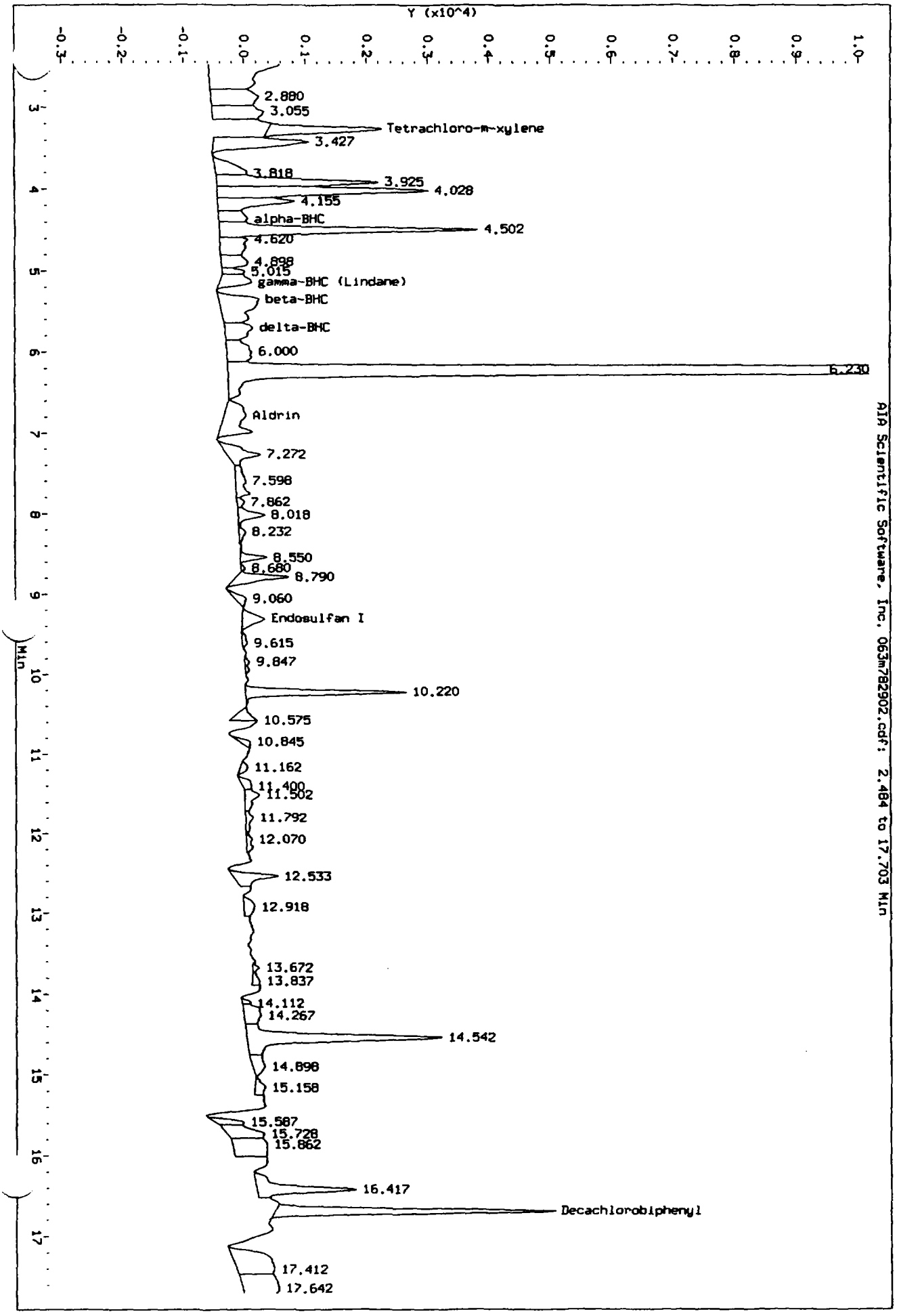
Volume Injected (uL): 1.0

Operator: 2461

Column phase: olpest

Column diameter: 0.53




Data File: /chem/tracegc82.i/MOS1005cOLC03.b/063m782902.d/063m782902.cdf
Injection Date: 06-OCT-2005 18:31
Instrument: tracegc82.i
Client Sample ID: ACSGWPWDUP26RE
Y (x10^4)
-0.3
-0.2
-0.1
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
Min
2.880
3.055
Tetrachloro-m-xylene
3.427
3.818
3.925
4.028
4.155
alpha-BHC
4.502
4.620
4.898
5.015
gamma-BHC (Lindane)
beta-BHC
delta-BHC
6.000
6.230
Aldrin
7.272
7.598
7.862
8.018
8.232
8.550
8.680
8.790
9.060
Endosulfan I
9.615
9.847
10.220
10.575
10.845
11.162
11.400
11.502
11.792
12.070
12.533
12.918
13.672
13.837
14.112
14.267
14.542
14.898
15.158
15.587
15.728
15.862
16.417
Decachlorobiphenyl
17.412
17.642
AIA Scientific Software, Inc. 063m782902.cdf: 2.484 to 17.703 Min

CompuChem Environmental Corporation

Lab Smp Id : 782902R Client Smp Id : ACSGWPWDUP26RE
Sample Type : SAMPLE Sublist : olm03
Inj Date : 06-OCT-2005 18:31 Inst ID : TRACEGC82
Operator : 2461
Method : /chem/tracegc82.i/m051005cOLC03.b/olc03_clpest_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 500.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
0.14			5339								
0.72			35215								
0.88			777286								
1.32			19927								
1.44			18387								
1.71			18071								
2.09			53160								
2.46			22629								
2.88			8689								
3.06			7910								
3.27	3.21	3.31	9138	719050	Tetrachloro-m-xylene	0.012707	0.025414		63.5	30 - 150	M
3.43			10200								
3.82			4304								
3.92			13855								
4.03			19337								
4.16			7624								
4.37	4.34	4.44	3481	1186150	alpha-BHC	0.002935	0.005869	0.010000			J
4.50			20570								
4.62			5381								
4.90			3550								
5.01			1391								
5.14	5.05	5.15	4223	1121350	gamma-BHC (Lindane)	0.003766	0.007532	0.010000			J
5.36	5.30	5.40	10188	520750	beta-BHC	0.019562	0.039124	0.010000			
5.70	5.66	5.76	4683	1126550	delta-BHC	0.004157	0.008314	0.010000			J
6.00			5504								
6.23			443115								
6.78	6.78	6.88	8378	1080000	Aldrin	0.007756	0.015513	0.010000			
7.27			4774								
7.60			3218								
7.86			623								
8.02			2432								
8.23			786								
8.55			1659								
8.68			226								
8.79			4450								
9.06			1322								
9.30	9.21	9.35	2889	1100200	Endosulfan I	0.002626	0.005252	0.010000			J

CompuChem Environmental Corporation

Lab Smp Id : 782902R Client Smp Id : ACSGWPWDUP26RE
Sample Type : SAMPLE Sublist : olm03
Inj Date : 06-OCT-2005 18:31 Inst ID :
Operator : 2461
Method : /chem/tracegc82.i/m051005cOLC03.b/olc03_clpest_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 500.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
9.62		648								
9.85		588								
10.22		10518								
10.57		2081								
10.85		924								
11.16		792								
11.40		1188								
11.50		2243								
11.79		1230								
12.07		1010								
12.53		4313								
12.92		1946								
13.67		427								
13.84		867								
'1		411								
7		3479								
64		21027								
14.90		2582								
15.16		1553								
15.59		2001								
15.73		4890								
15.86		7102								
16.42		10019								
16.69	16.57 16.77	19960	1191025	Decachlorobiphenyl	0.016759	0.033517		83.8	30 - 150	M
17.41		10275								
17.64		8823								
17.84		6314								
18.25		11141								
18.58		2590								
18.76		2411								
19.04		1611								
19.15		1771								
19.41		2262								
19.61		2434								
19.89		6523								
20.19		2895								
20.48		4298								

CompuChem Environmental Corporation

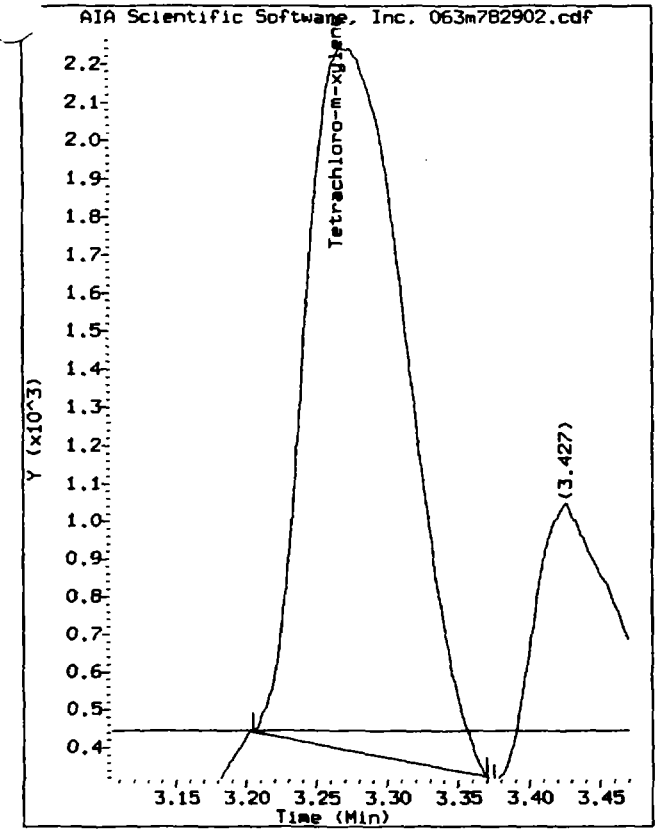
Lab Smp Id : 782902R Client Smp Id : ACSGWPWDUP26RE
Sample Type : SAMPLE Sublist : olm03
Inj Date : 06-OCT-2005 18:31 Inst ID :
Operator : 2461
Method : /chem/tracegc82.i/m051005cOLC03.b/olc03_clpest_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

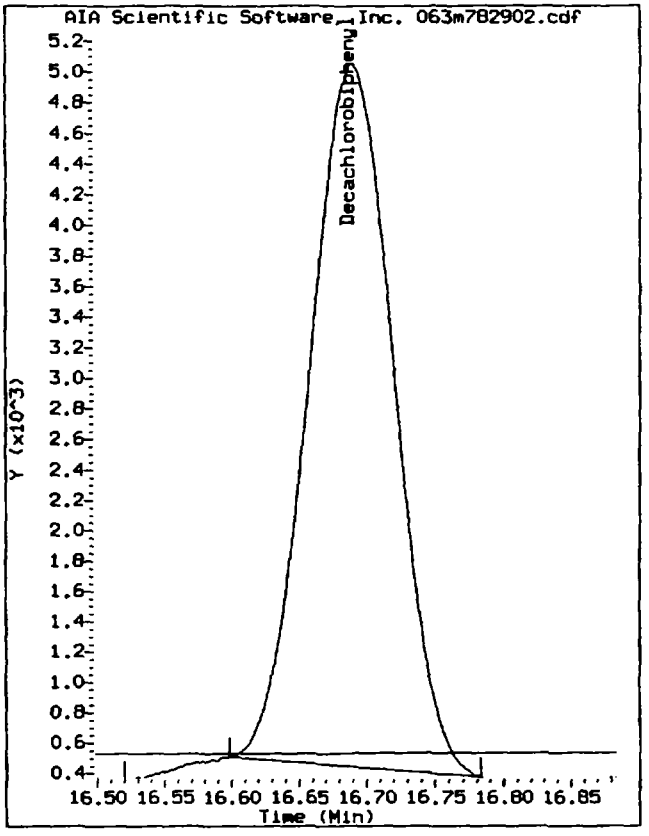
DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 500.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
20.78		2073								
21.08		270								
21.25		626								
21.51		1923								
21.69		1257								

Manually Integrated Peaks



Start: 3.21 Stop: 3.37



Start: 16.60 Stop: 16.78

Data File: /chem/tracego83.i/m051005c0LC03.b/063m782902.d

Page 1

Date : 06-OCT-2005 18:31

Client ID: ACSGWPWDUP26RE

Instrument: tracego83.i

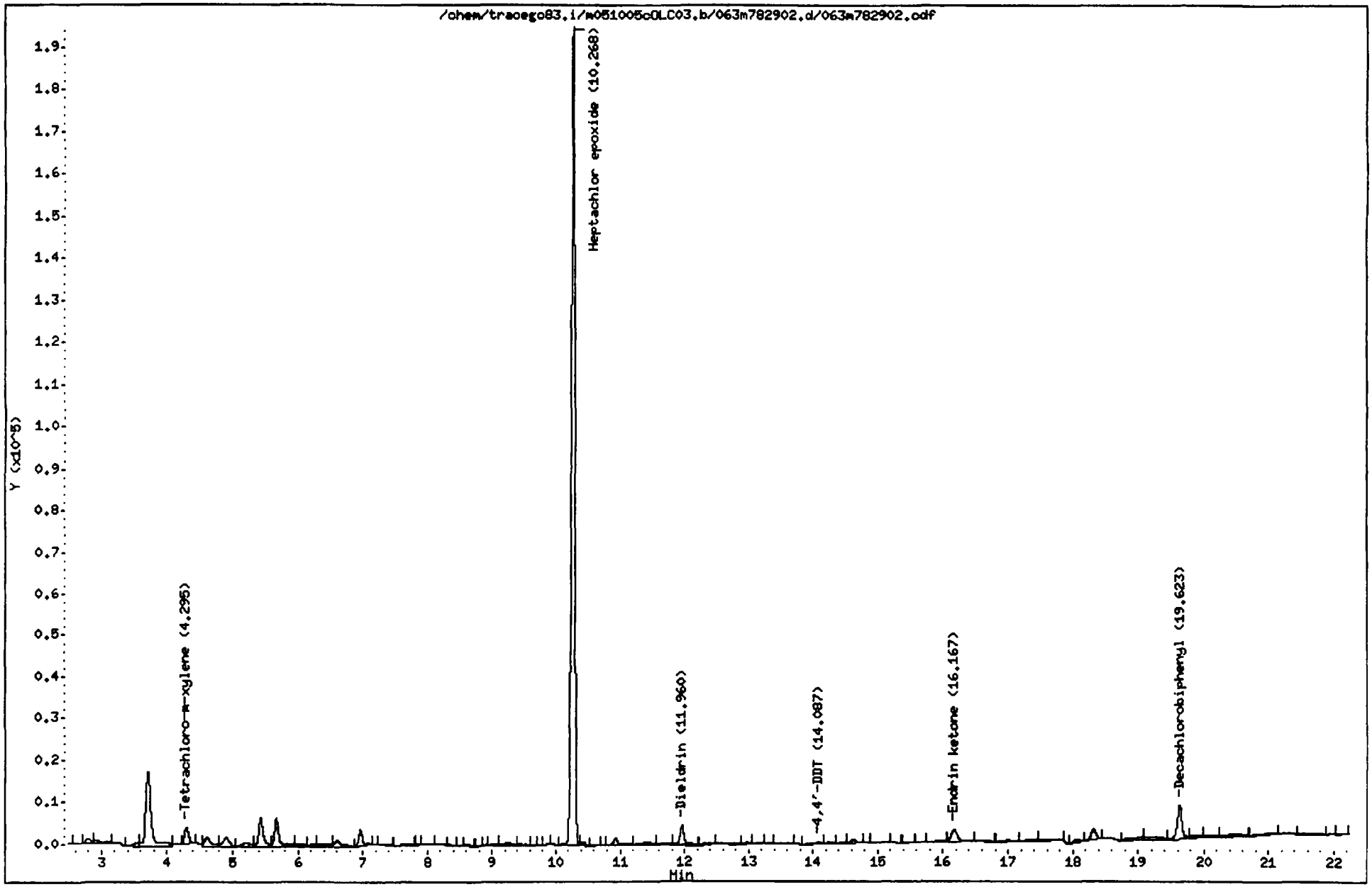
Sample Info: 782902R

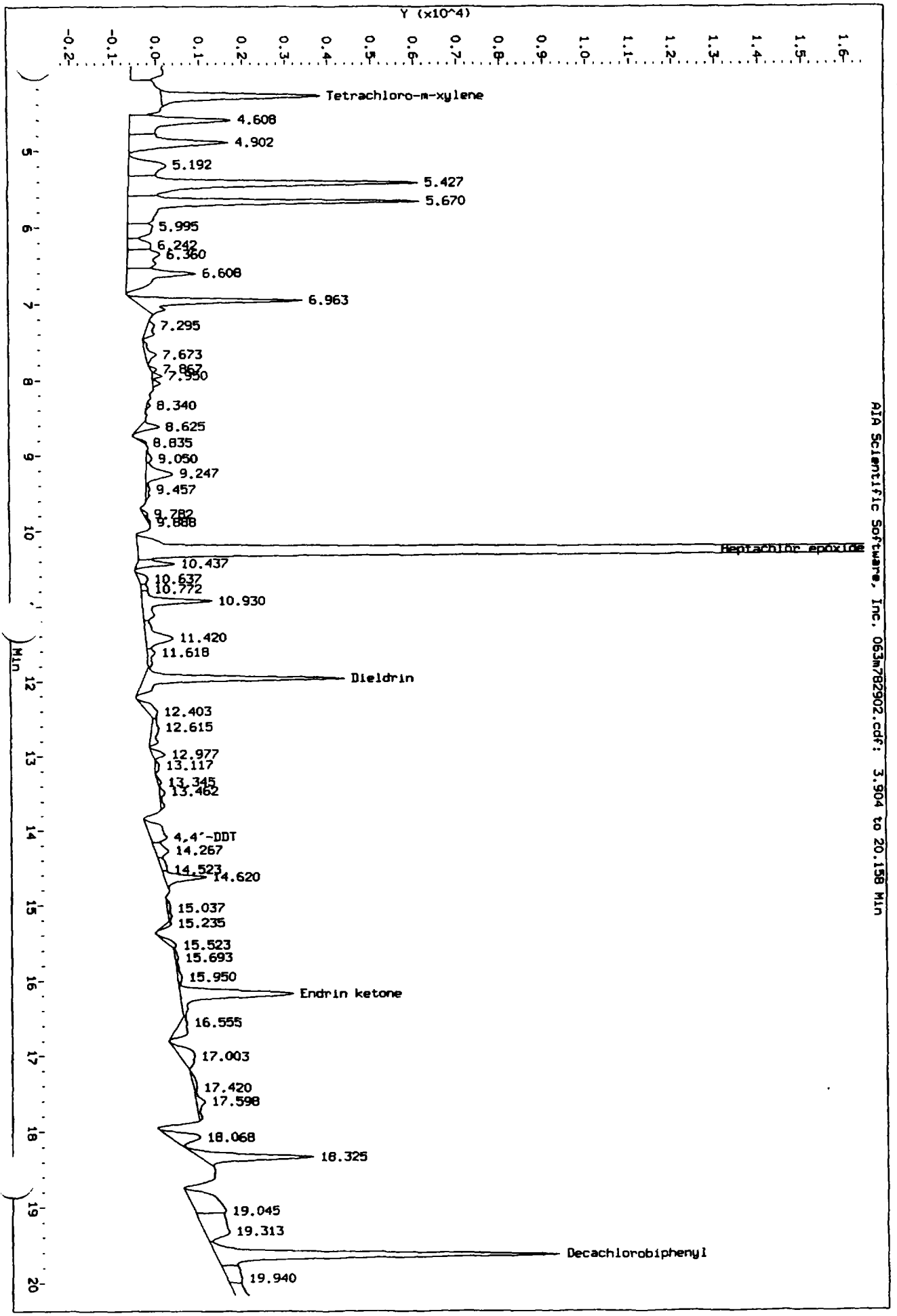
Volume Injected (uL): 1.0

Operator: 2461

Column phase: olpest2

Column diameter: 0.53




Data File: /chem/tracegc83.i/m051005cQLC03.b/063m782902.d/063m782902.cdf
Injection Date: 06-OCT-2005 18:31
Instrument: tracegc83.i
Client Sample ID: ACSGWPWDUP26RE
Y (x10^4)
-0.2
-0.1
0.0
0.1
0.2
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
Min
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
Tetrachloro-m-xylene
4.608
4.902
5.192
5.427
5.670
5.995
6.242
6.360
6.608
6.963
7.295
7.673
7.867
7.950
8.340
8.625
8.835
9.050
9.247
9.457
9.782
9.888
Heptachlor epoxide
10.437
10.637
10.772
10.930
11.420
11.618
Dieldrin
12.403
12.615
12.977
13.117
13.345
13.462
4,4'-DDT
14.267
14.523
14.620
15.037
15.235
15.523
15.693
15.950
Endrin ketone
16.555
17.003
17.420
17.598
18.068
18.325
19.045
19.313
Decachlorobiphenyl
19.940
AIA Scientific Software, Inc. 063m782902.cdf: 3.904 to 20.158 Min

CompuChem Environmental Corporation

Lab Smp Id : 782902R Client Smp Id : ACSGWPWDUP26RE
Sample Type : SAMPLE Sublist : olm03
Inj Date : 06-OCT-2005 18:31 Inst ID : TRACEGC83
Operator : 2461
Method : /chem/tracegc83.i/m051005cOLC03.b/olc03_clpest2_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 500.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
0.14			2258								
0.47			416								
0.78			20665								
0.90			1362189								
1.28			25471								
1.36			15694								
1.51			25213								
1.67			27129								
1.84			20853								
2.29			1614								
2.64			708								
2.80			6095								
2.92			4701								
3.54			5174								
3.71			106608								
4.30	4.23	4.33	16800	1069850	Tetrachloro-m-xylene	0.015703	0.031406		78.5	30 - 150	M
4.61			16448								
4.90			15367								
5.19			9005								
5.43			37082								
5.67			37242								
6.00			6008								
6.24			3990								
6.36			9568								
6.61			13355								
6.96			17044								
7.29			1980								
7.67			1947								
7.87			486								
7.95			1362								
8.34			284								
8.62			2274								
8.84			288								
9.05			786								
9.25			4925								
9.46			819								
9.78			330								

CompuChem Environmental Corporation

Lab Smp Id : 782902R Client Smp Id : ACSGWPWDUP26RE
Sample Type : SAMPLE Sublist : olm03
Inj Date : 06-OCT-2005 18:31 Inst ID :
Operator : 2461
Method : /chem/tracegc83.i/m051005cOLC03.b/olc03_clpest2_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 500.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
9.89		336								
10.27	10.14 10.28	708521	1782000	Heptachlor epoxide	0.397599	0.795198	0.010000			E
10.44		3696								
10.64		1619								
10.77		715								
10.93		10076								
11.42		6453								
11.62		1689								
11.96	11.83 11.97	21868	1848950	Dieldrin	*0.011827*	*0.023653*	*0.020000*			
12.40		2696								
12.62		2944								
12.98		1540								
13.12		684								
13.35		455								
46		1164								
9	13.96 14.10	5534	1522700	4,4'-DDT	0.003634	0.007267	0.020000			J
47		2779								
14.52		1344								
14.62		5058								
15.04		1104								
15.23		750								
15.52		1355								
15.69		572								
15.95		1232								
16.17	16.09 16.23	17889	1712350	Endrin ketone	0.010447	0.020894	0.020000			
16.55		3584								
17.00		5033								
17.42		1032								
17.60		2064								
18.07		5350								
18.32		14067								
19.05		11494								
19.31		11465								
19.62	19.51 19.71	40278	1977350	Decachlorobiphenyl	0.020369	0.040738		101.8	30 - 150	
19.94		4747								
20.17		3814								
20.57		6040								

CompuChem Environmental Corporation

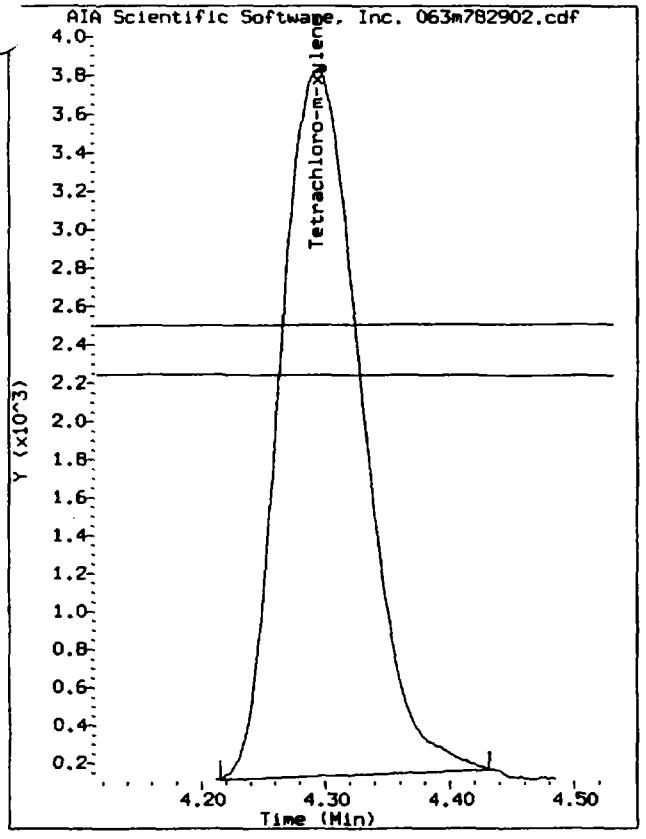
Lab Smp Id : 782902R Client Smp Id : ACSGWPWDUP26RE
Sample Type : SAMPLE Sublist : olm03
Inj Date : 06-OCT-2005 18:31 Inst ID :
Operator : 2461
Method : /chem/tracegc83.i/m051005cOLC03.b/olc03_clpest2_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 500.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
21.14		2841								
21.71		5030								
22.02		2242								

Manually Integrated Peaks



Start: 4.21 Stop: 4.43

1LCE
LOW CONCENTRATION WATER PESTICIDE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

ACSGWPWT26

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 782904 Date Received: 09/27/2005

Sample Volume: 1100(ML) Date Extracted: 09/28/2005

Concentrated Extract Volume: 2000(UL) Date Analyzed: 10/01/2005

Injection Volume: 1.0(UL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N Extraction: (Sepf/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

Data File: /chem/tracego80.i/d050930e0LC03.b/079d782904.d

Date : 01-OCT-2005 21:18

Client ID: ACSCWPWT26

Instrument: tracego80.i

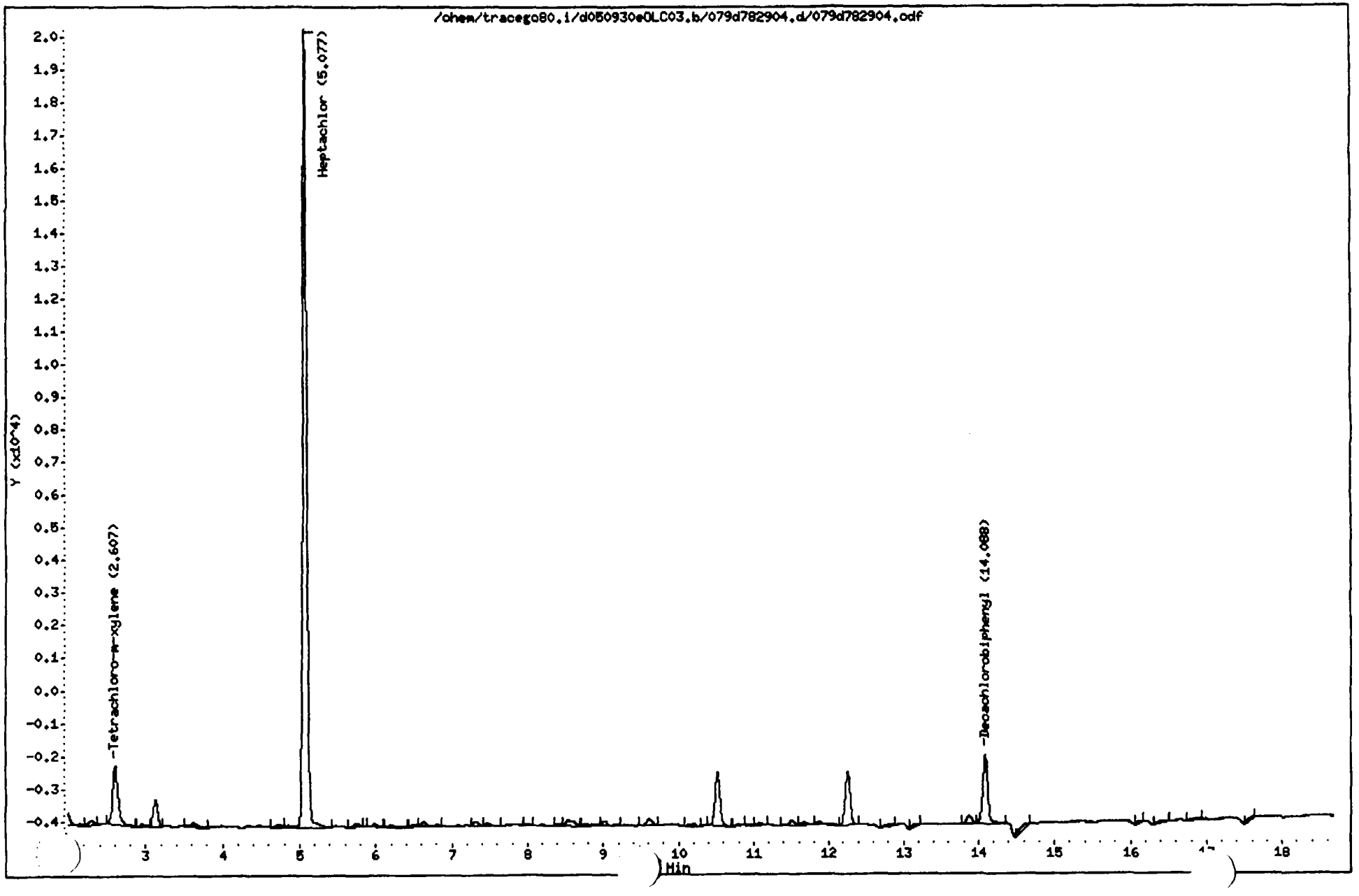
Sample Info: 782904

Volume Injected (uL): 1.0

Operator: 2461

Column phase: clpest

Column diameter: 0.53



CompuChem Environmental Corporation

Lab Smp Id : 782904 Client Smp Id : ACSGWPWT26
Sample Type : SAMPLE Sublist : olm03
Inj Date : 01-OCT-2005 21:18 Inst ID : TRACEGC80
Operator : 2461
Method : /chem/tracegc80.i/d050930eOLC03.b/olc03_clpest_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 2000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1100.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
0.12			769								
0.60			9843								
0.70			67880								
1.05			4503								
1.36			383								
1.60			2257								
1.95			5885								
2.30			598								
2.61	2.55	2.65	9399	513950	Tetrachloro-m-xylene	0.018286	0.033247		91.4	30 - 150	
2.96			493								
3.13			3447								
3.63			720								
4.74			414								
5.08	5.00	5.10	86804	784550	Heptachlor	0.110642	0.201167	0.010000			
5.76			540								
6.00			351								
6.21			426								
6.51			256								
6.63			858								
7.31			647								
7.47			457								
8.01			199								
8.41			258								
8.54			1452								
8.77			633								
9.02			877								
9.61			1139								
10.21			506								
10.52			7689								
10.81			294								
11.09			358								
11.50			770								
11.68			615								
11.86			774								
12.26			7996								
12.84			317								
13.14			433								

CompuChem Environmental Corporation

Lab Smp Id : 782904 Client Smp Id : ACSGWPWT26
Sample Type : SAMPLE Sublist : olm03
Inj Date : 01-OCT-2005 21:18 Inst ID :
Operator : 2461
Method : /chem/tracegc80.i/d050930eOLC03.b/olc03_clpest_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 2000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1100.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
13.88		1209								
14.09	13.99 14.19	10155	615700	Decachlorobiphenyl	0.016493	0.029988		82.5	30 - 150	
14.67		1102								
16.14		195								
16.45		538								
16.87		233								
17.61		376								

Data File: /chem/tracego81.i/d050930e0LC03.b/079d782904.d

Page 1

Date : 01-OCT-2005 21:18

Client ID: ACSGWPWT26

Instrument: tracego81.i

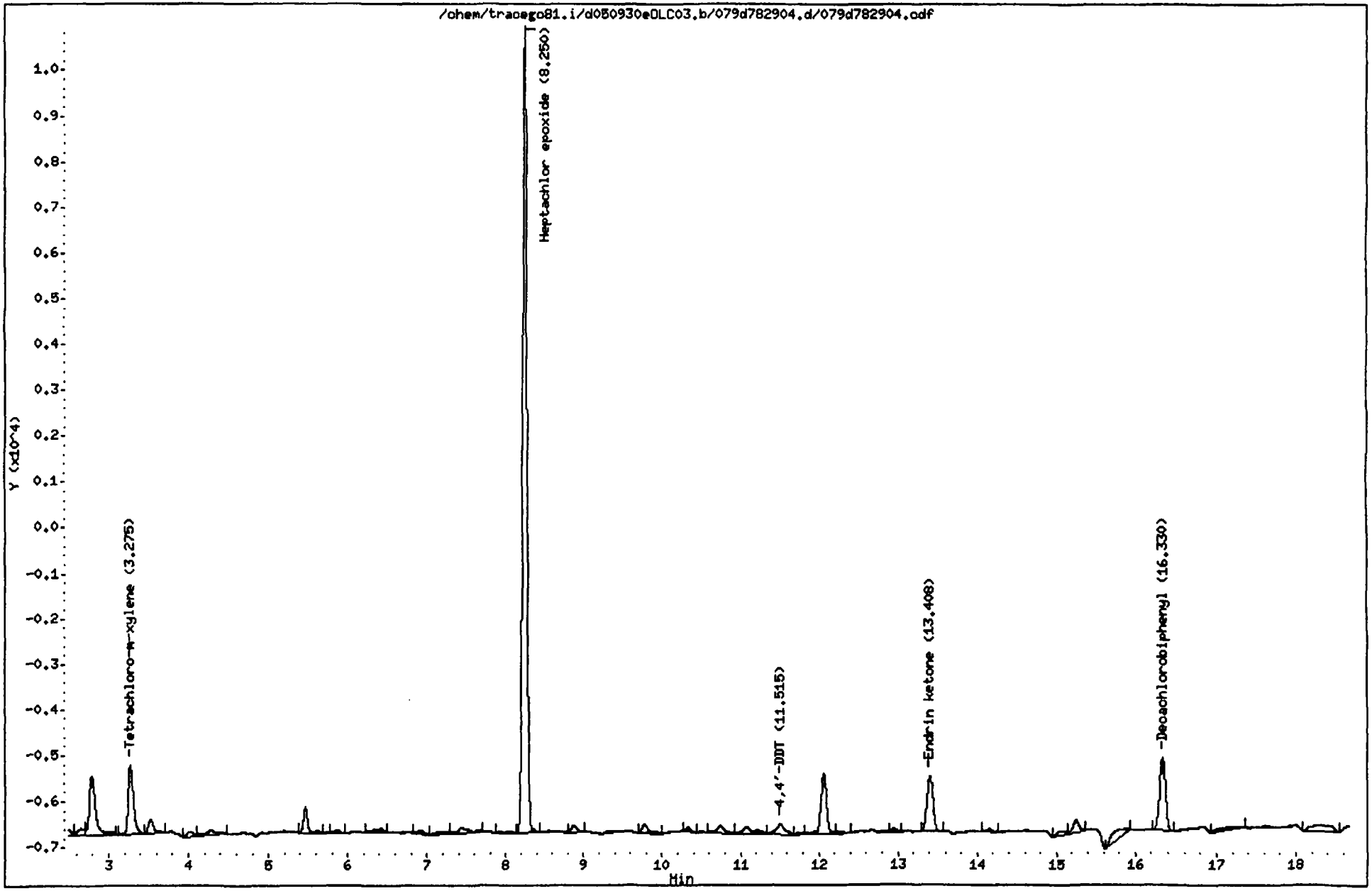
Sample Info: 782904

Volume Injected (uL): 1.0

Operator: 2461

Column phase: olpest2

Column diameter: 0.53



CompuChem Environmental Corporation

Lab Smp Id : 782904 Client Smp Id : ACSGWPWT26
Sample Type : SAMPLE Sublist : olm03
Inj Date : 01-OCT-2005 21:18 Inst ID : TRACEGC81
Operator : 2461
Method : /chem/tracegc81.i/d050930eOLC03.b/olc03_clpest2_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 2000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1100.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
0.13			1639								
0.57			17521								
0.66			63623								
1.12			7179								
1.38			2948								
1.62			323								
1.86			2716								
2.09			3439								
2.27			2973								
2.66			736								
2.79			7071								
3.28	3.22	3.32	6769	423700	Tetrachloro-m-xylene	0.015974	0.029043		79.9	30 - 150	
3.52			1427								
4.02			540								
4.28			974								
46			2116								
56			378								
6.34			530								
6.92			461								
7.23			573								
7.44			1287								
7.94			369								
8.25	8.19	8.33	65407	530250	Heptachlor epoxide	0.123349	0.224272	0.010000			
8.88			667								
9.78			1157								
10.33			321								
10.74			1168								
11.08			1562								
11.52	11.48	11.62	1803	420675	4,4'-DDT	0.004284	0.007788	0.020000			J
11.76			322								
12.06			6614								
12.27			271								
12.96			307								
13.41	13.28	13.42	6337	414175	Endrin ketone	0.015300	0.027819	0.020000			
14.15			333								
15.07			750								
15.25			1389								

CompuChem Environmental Corporation

Lab Smp Id : 782904 Client Smp Id : ACSGWPWT26
Sample Type : SAMPLE Sublist : olm03
Inj Date : 01-OCT-2005 21:18 Inst ID :
Operator : 2461
Method : /chem/tracegc81.i/d050930eOLC03.b/olc03_clpest2_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 2000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1100.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
15.89		2484								
16.33	16.23 16.43	7425	482325	Decachlorobiphenyl	0.015392	0.027986		77.0	30 - 150	
17.27		991								
18.41		2483								

1LCE
LOW CONCENTRATION WATER PESTICIDE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

ACSGWPWT26RE

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 782904R Date Received: 09/27/2005

Sample Volume: 500(ML) Date Extracted: 10/05/2005

Concentrated Extract Volume: 1000(UL) Date Analyzed: 10/06/2005

Injection Volume: 1.0(UL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N Extraction: (Sepf/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

Data File: /chem/tracego82.i/m051005c0LC03.b/065m782904.d

Date : 06-OCT-2005 19:22

Client ID: ACSGWPWT26RE

Instrument: tracego82.i

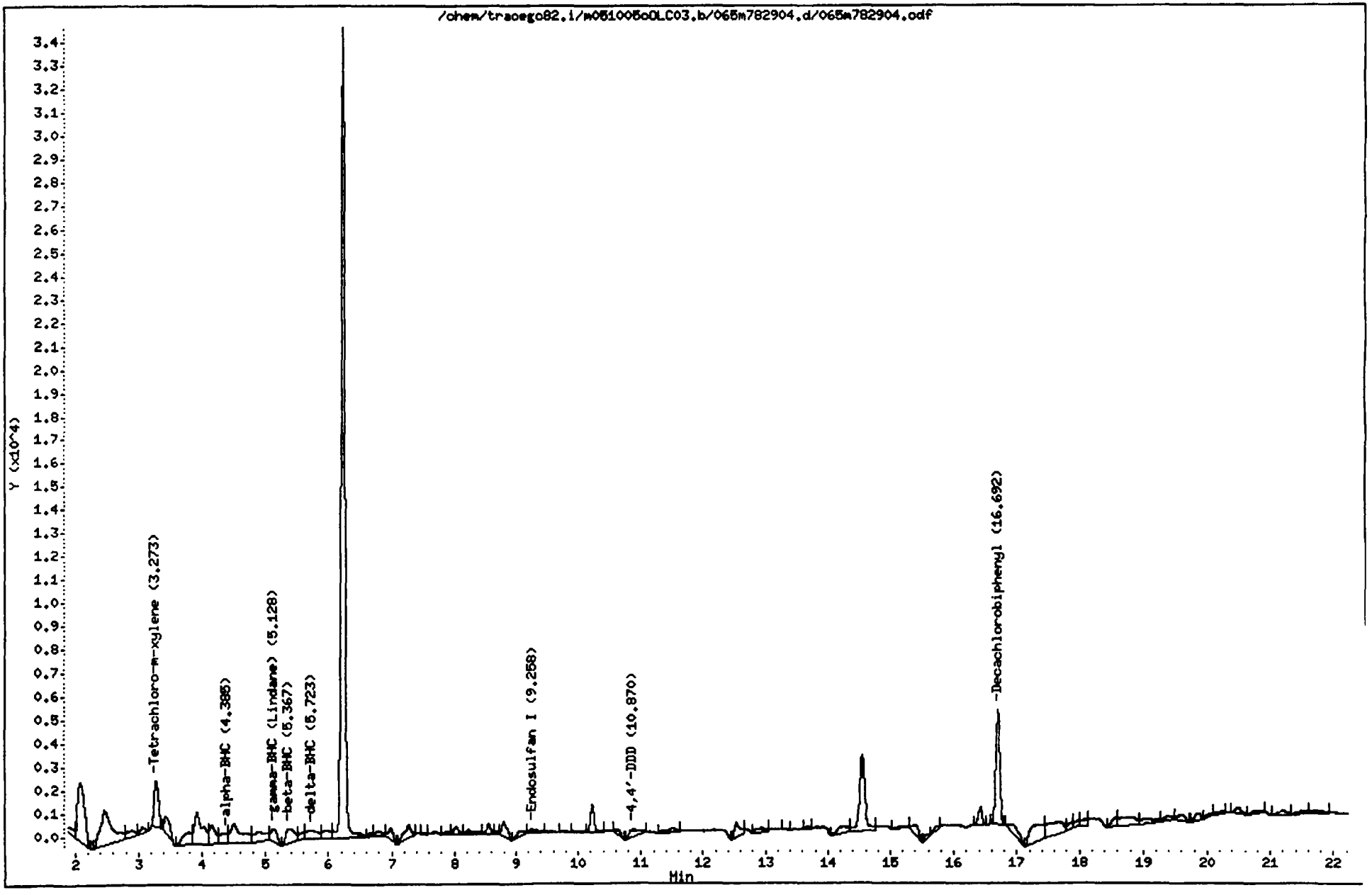
Sample Info: 782904R

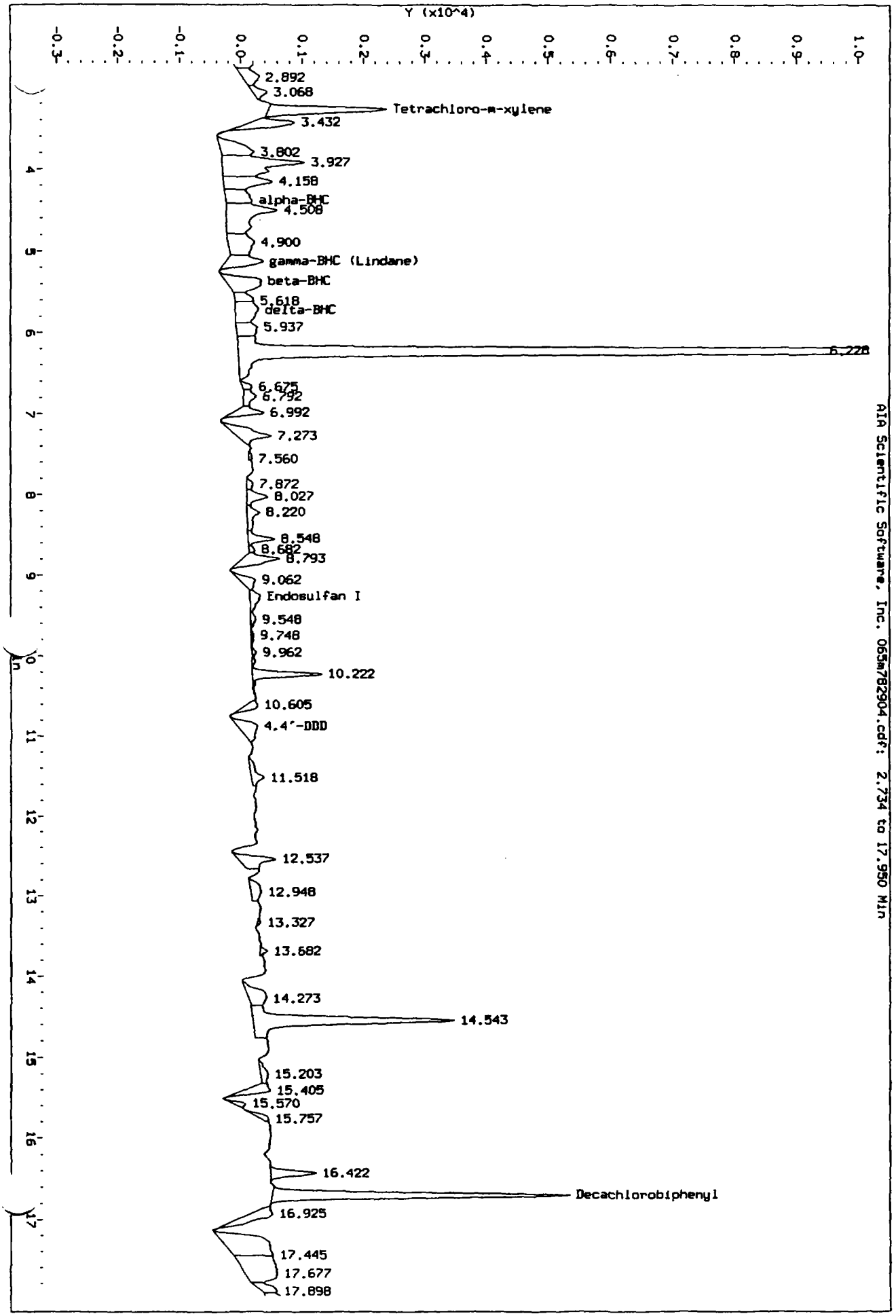
Volume Injected (uL): 1.0

Operator: 2461

Column phase: olpest

Column diameter: 0.53




Data File: /chem/tracegc82.i/m051005cOLC03.b/065m782904.d/065m782904.cdf
Injection Date: 06-OCT-2005 19:22
Instrument: tracegc82.i
Client Sample ID: ACSGWPWT26RE
Y (x10^4)
-0.3
-0.2
-0.1
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
2.892
3.068
Tetrachloro-m-xylene
3.432
3.802
3.927
4.158
alpha-BHC
4.508
4.900
gamma-BHC (Lindane)
beta-BHC
5.618
delta-BHC
5.937
6.228
6.675
6.792
6.992
7.273
7.560
7.872
8.027
8.220
8.548
8.682
8.793
9.062
Endosulfan I
9.548
9.748
9.962
10.222
10.605
4.4'-DDD
11.518
12.537
12.948
13.327
13.682
14.273
14.543
15.203
15.405
15.570
15.757
16.422
Decachlorobiphenyl
16.925
17.445
17.677
17.898
AIA Scientific Software, Inc. 065m782904.cdf: 2.734 to 17.950 Min
Min

CompuChem Environmental Corporation

Lab Smp Id : 782904R Client Smp Id : ACSGWPWT26RE
Sample Type : SAMPLE Sublist : olm03
Inj Date : 06-OCT-2005 19:22 Inst ID : TRACEGC82
Operator : 2461
Method : /chem/tracegc82.i/m051005cOLC03.b/olc03_clpest_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 500.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
0.15			5274								
0.72			17442								
0.89			933277								
1.32			15133								
1.44			6413								
1.71			11000								
2.09			19253								
2.47			18668								
2.89			2644								
3.07			1450								
3.27	3.21	3.31	9389	719050	Tetrachloro-m-xylene	0.013058	0.026115		65.3	30 - 150	M
3.43			4485								
3.80			4986								
3.93			12675								
4.16			5574								
4.38	4.34	4.44	3850	1186150	alpha-BHC	0.003245	0.006490	0.010000			J
4.51			10538								
4.90			5826								
5.13	5.05	5.15	4206	1121350	gamma-BHC (Lindane)	0.003751	0.007502	0.010000			J
5.37	5.30	5.40	5623	520750	beta-BHC	0.010796	0.021592	0.010000			
5.62			1765								
5.72	5.66	5.76	4900	1126550	delta-BHC	0.004349	0.008697	0.010000			J
5.94			3123								
6.23			136906								
6.67			692								
6.79			1714								
6.99			2582								
7.27			4625								
7.56			285								
7.87			638								
8.03			2052								
8.22			1974								
8.55			2006								
8.68			396								
8.79			3952								
9.06			1939								
9.26	9.21	9.35	1700	1100200	Endosulfan I	0.001544	0.003089	0.010000			J

CompuChem Environmental Corporation

Lab Smp Id : 782904R Client Smp Id : ACSGWPWT26RE
Sample Type : SAMPLE Sublist : olm03
Inj Date : 06-OCT-2005 19:22 Inst ID :
Operator : 2461
Method : /chem/tracegc82.i/m051005cOLC03.b/olc03_clpest_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 500.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
9.55		684								
9.75		300								
9.96		544								
10.22		4758								
10.61		1426								
10.87	10.84 10.98	3559	709125	4,4'-DDD	0.005017	0.010035	0.020000			J
11.52		1932								
12.54		3930								
12.95		2057								
13.33		195								
13.68		428								
14.27		3705								
14.54		21204								
15.20		1323								
40		2855								
7		662								
16		913								
16.42		3295								
16.69	16.57 16.77	21554	1191025	Decachlorobiphenyl	0.018097	0.036194		90.5	30 - 150	M
16.93		4240								
17.45		11419								
17.68		10466								
17.90		1822								
17.98		1405								
18.11		1849								
18.57		2110								
18.73		6142								
19.02		3103								
19.40		1977								
19.61		2161								
19.86		1723								
20.07		637								
20.24		1143								
20.48		1999								
20.75		1374								
21.21		1958								
21.53		1680								

CompuChem Environmental Corporation

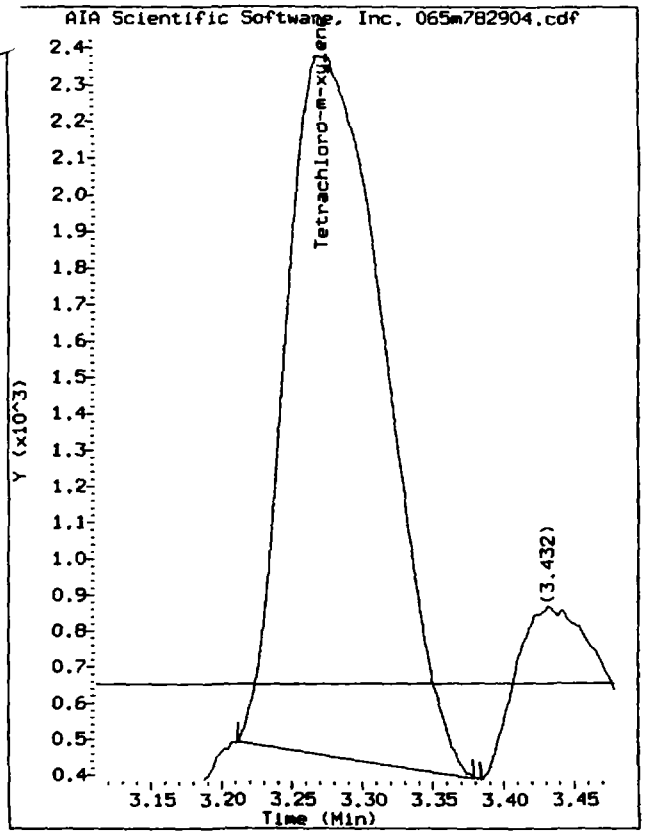
Lab Smp Id : 782904R Client Smp Id : ACSGWPWT26RE
Sample Type : SAMPLE Sublist : olm03
Inj Date : 06-OCT-2005 19:22 Inst ID :
Operator : 2461
Method : /chem/tracegc82.i/m051005cOLC03.b/olc03_clpest_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

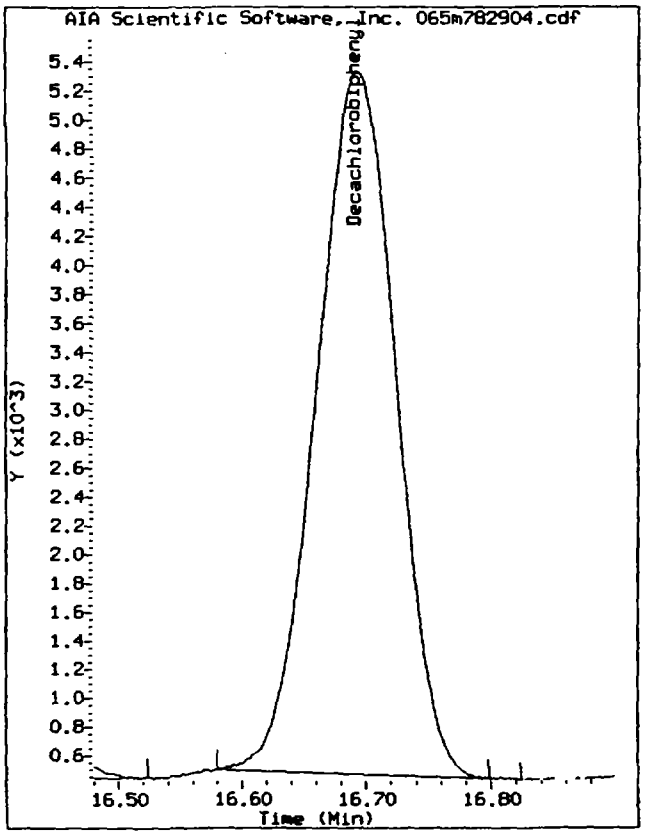
DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 500.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
21.71		2008								

Manually Integrated Peaks



Start: 3.21 Stop: 3.38



Start: 16.58 Stop: 16.80

Data File: /ohem/tracego83.i/m051005o0LC03.b/065m782904.d

Date : 06-OCT-2005 19:22

Client ID: ACSGWPWT26RE

Sample Info: 782904R

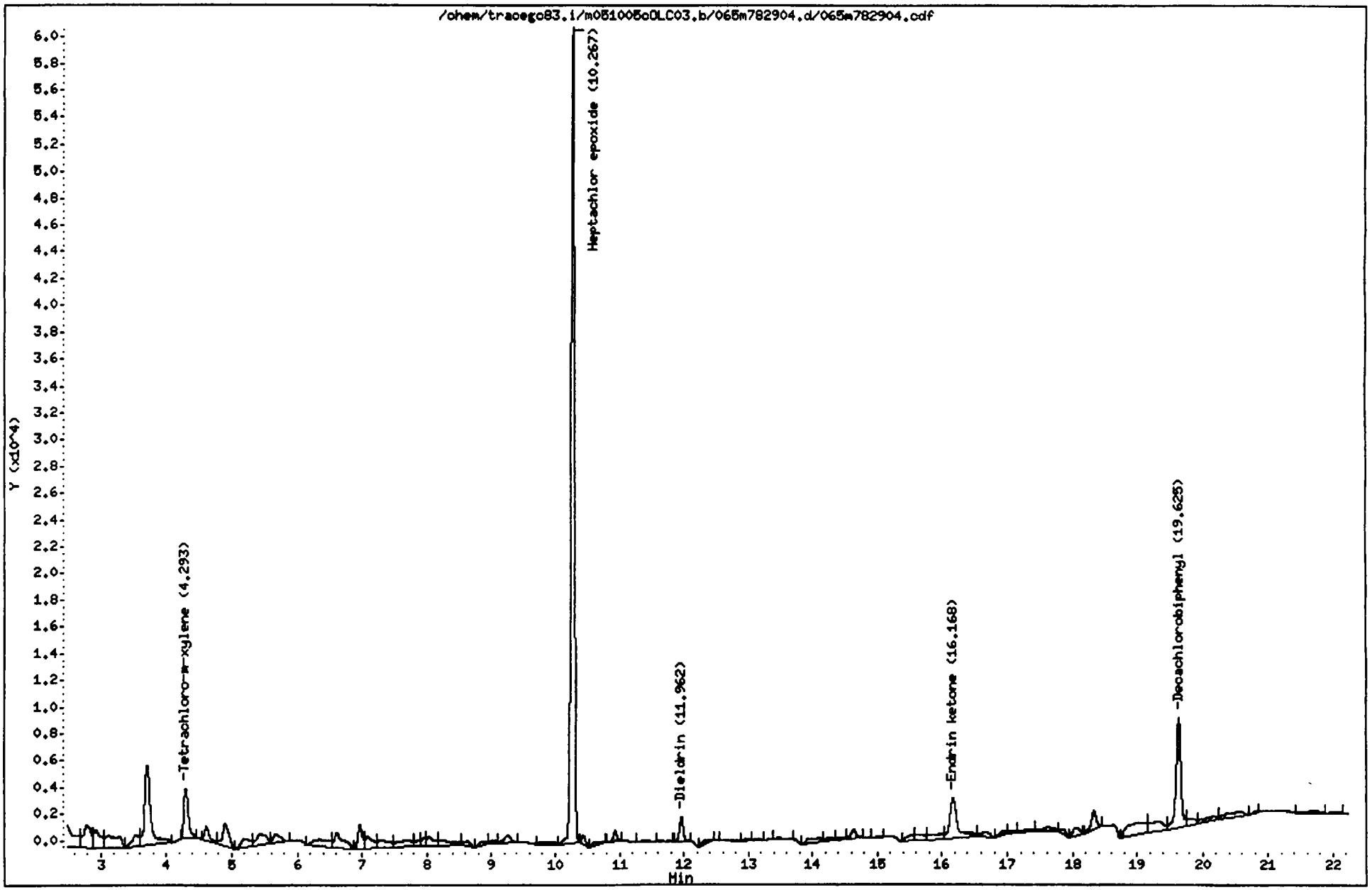
Volume Injected (uL): 1.0

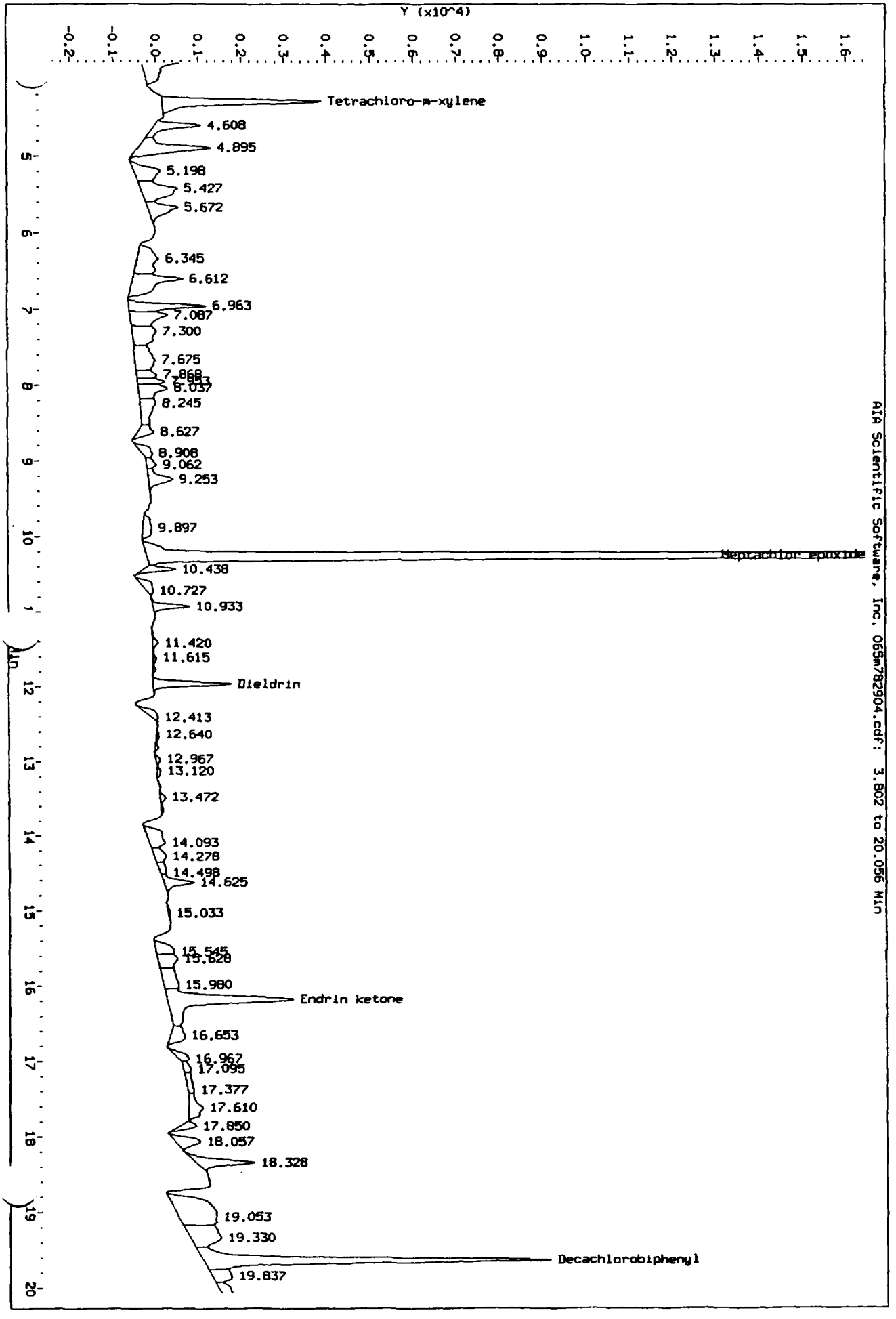
Column phase: olpest2

Instrument: tracego83.i

Operator: 2461

Column diameter: 0.53




Data File: /chem/tracegc83.i/m051005cQLC03.b/065m782904.d/065m782904.cdf
Injection Date: 06-OCT-2005 19:22
Instrument: tracegc83.i
Client Sample ID: ACSGWPWT26RE
Y (x10^4)
Tetrachloro-m-xylene
4.608
4.895
5.198
5.427
5.672
6.345
6.612
6.963
7.087
7.300
7.675
8.037
8.245
8.627
8.908
9.062
9.253
9.897
Heptachlor epoxide
10.438
10.727
10.933
11.420
11.615
Dieldrin
12.413
12.640
12.967
13.120
13.472
14.093
14.278
14.498
14.625
15.033
15.545
15.628
15.980
Endrin ketone
16.653
16.967
17.095
17.377
17.610
17.850
18.057
18.328
19.053
19.330
Decachlorobiphenyl
19.837
Min
AIA Scientific Software, Inc. 065m782904.cdf: 3.802 to 20.056 Min

CompuChem Environmental Corporation

Lab Smp Id : 782904R Client Smp Id : ACSGWPWT26RE
Sample Type : SAMPLE Sublist : olm03
Inj Date : 06-OCT-2005 19:22 Inst ID : TRACEGC83
Operator : 2461
Method : /chem/tracegc83.i/m051005cOLC03.b/olc03_clpest2_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 500.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
0.14			5620								
0.91			1762687								
1.40			6474								
1.52			28859								
1.68			27971								
1.87			22025								
2.29			9828								
2.49			18745								
2.79			13052								
2.92			10148								
3.12			12628								
3.54			6322								
3.71			41066								
4.29	4.23	4.33	18008	1069850	Tetrachloro-m-xylene	0.016831	0.033663		84.2	30 - 150	M
4.61			5749								
4.89			11813								
5.20			6063								
5.43			9122								
5.67			5570								
6.34			8898								
6.61			10880								
6.96			8286								
7.09			7322								
7.30			7154								
7.67			7547								
7.87			2614								
7.95			2686								
8.04			5503								
8.24			5397								
8.63			2814								
8.91			2349								
9.06			1484								
9.25			4354								
9.90			2971								
10.27	10.14	10.28	219060	1782000	Heptachlor epoxide	0.122929	0.245857	0.010000			
10.44			2932								
10.73			2375								

CompuChem Environmental Corporation

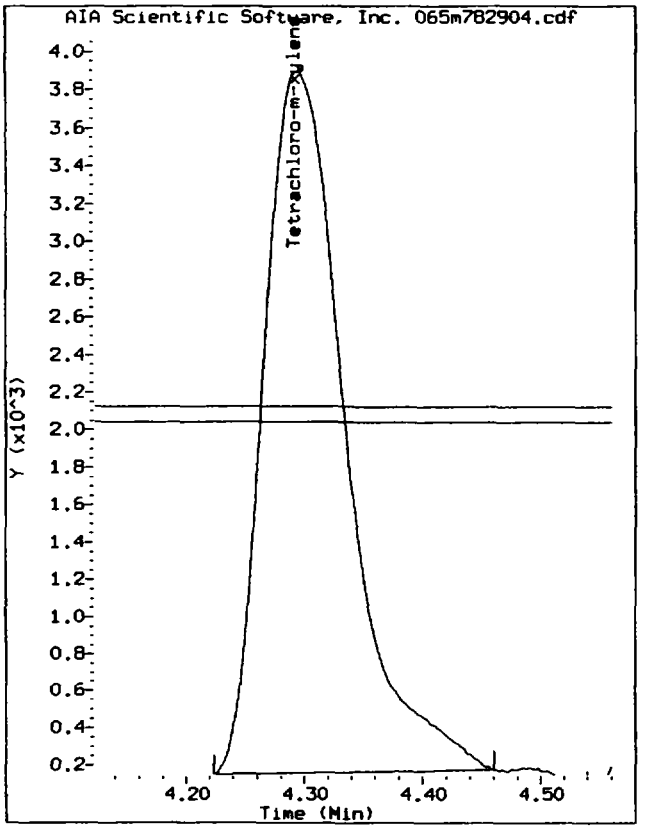
Lab Smp Id : 782904R Client Smp Id : ACSGWPWT26RE
Sample Type : SAMPLE Sublist : olm03
Inj Date : 06-OCT-2005 19:22 Inst ID :
Operator : 2461
Method : /chem/tracegc83.i/m051005cOLC03.b/olc03_clpest2_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 500.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
10.93		3471								
11.42		876								
11.62		686								
11.96	11.83 11.97	7351	1848950	Dieldrin	0.003976	0.007952	0.020000			J
12.41		1962								
12.64		851								
12.97		561								
13.12		571								
13.47		930								
14.09		5544								
14.28		2637								
14.50		1428								
14.62		3853								
15.03		271								
[illegible]4		3527								
[illegible]		4367								
[illegible]8		5476								
16.17	16.09 16.23	24595	1712350	Endrin ketone	0.014363	0.028725	0.020000			
16.65		3909								
16.97		1980								
17.09		1325								
17.38		2219								
17.61		4333								
17.85		2203								
18.06		4198								
18.33		7314								
19.05		19288								
19.33		11051								
19.62	19.51 19.71	42112	1977350	Decachlorobiphenyl	0.021297	0.042593		106.5	30 - 150	
19.84		4161								
20.19		4937								
20.57		7189								
20.81		376								
21.70		2473								
21.99		1151								

Manually Integrated Peaks



Start: 4.22 Stop: 4.46

3. Pesticide/Aroclor Standards Data

a. Initial Calibration Data of Single Component Analytes (Form VI LCP-1, LCP-2)

b. Initial Calibration Data of Multicomponent Analytes (Form VI LCP-3)

c. Analyte Resolution Summary (Form VI LCP-4)

d. Performance Evaluation Mixture (Form VI LCP-5)

e. Individual Standard Mixture A (Form VI LCP-6)

f. Individual Standard Mixture B (Form VI LCP-7)

g. Calibration Verification Summary (Form VII LCP-1)

h. Calibration Verification Summary (Form VII LCP-2)

i. Analytical Sequence (Form VIII LCP)

j. Florisil Cartridge Check (Form IX LCP)

k. Pesticide Identification Summary for Single Component Analytes (Form X LCP-1)

l. Pesticide Identification Summary for Multicomponent Analytes (Form X LCP-2)

m. Chromatograms and Data System Printouts

n. Printout of Retention Time & Corresponding Peak Height or Peak Area

a. Initial Calibration Data of Single Component Analytes (Form VI LCP-1, LCP-2)

For all GC columns, all instruments, in chronological order by GC column and instrument.

6LCG
LOW CONCENTRATION WATER PESTICIDE
INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Instrument ID: TRACEGC80Level (x low): low 1.0 mid 4.0 high 16.0

GC Column: CLPEST ID: 0.53(MM) Date(s) Analyzed: 09/30/2005 09/30/2005

COMPOUND	RT OF STANDARDS LOW	MID	HIGH	MEAN RT	RT WINDOW FROM	TO
alpha-BHC	3.55	3.55	3.56	3.55	3.50	3.60
beta-BHC	4.36	4.37	4.37	4.37	4.32	4.42
delta-BHC	4.68	4.68	4.68	4.68	4.63	4.73
gamma-BHC (Lindane)	4.14	4.14	4.15	4.14	4.09	4.19
Heptachlor	5.05	5.05	5.05	5.05	5.00	5.10
Aldrin	5.62	5.62	5.62	5.62	5.57	5.67
Heptachlor epoxide	6.94	6.94	6.94	6.94	6.87	7.01
Endosulfan I	7.72	7.72	7.73	7.72	7.65	7.79
Dieldrin	8.25	8.25	8.26	8.25	8.18	8.32
4,4'-DDE	7.84	7.85	7.85	7.85	7.78	7.92
Endrin	8.71	8.71	8.71	8.71	8.64	8.78
Endosulfan II	9.21	9.21	9.21	9.21	9.14	9.28
4,4'-DDD	9.14	9.13	9.14	9.14	9.07	9.21
Endosulfan sulfate	11.10	11.10	11.10	11.10	11.03	11.17
4,4'-DDT	9.73	9.73	9.73	9.73	9.66	9.80
Methoxychlor	10.97	10.97	10.98	10.97	10.90	11.04
Endrin ketone	11.63	11.63	11.63	11.63	11.56	11.70
Endrin aldehyde	10.16	10.16	10.16	10.16	10.09	10.23
alpha-Chlordane	7.49	7.49	7.49	7.49	7.42	7.56
gamma-Chlordane	7.20	7.20	7.20	7.20	7.13	7.27
Tetrachloro-m-xylene	2.60	2.60	2.60	2.60	2.55	2.65
Decachlorobiphenyl	14.09	14.09	14.10	14.09	13.99	14.19

* Surrogate retention times are measured from Standard Mix A analyses.

Retention time windows are +/- 0.05 minutes for all compounds that elute before Heptachlor epoxide, +/- 0.07 minutes for all other compounds, except +/- 0.10 minutes for Decachlorobiphenyl.

6LCG
LOW CONCENTRATION WATER PESTICIDE
INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Instrument ID: TRACEGC81Level (x low): low 1.0 mid 4.0 high 16.0

GC Column: CLPEST2 ID: 0.53(MM) Date(s) Analyzed: 09/30/2005 09/30/2005

COMPOUND	RT OF STANDARDS LOW	MID	HIGH	MEAN RT	RT WINDOW FROM	TO
alpha-BHC	4.55	4.55	4.55	4.55	4.50	4.60
beta-BHC	5.57	5.57	5.57	5.57	5.52	5.62
delta-BHC	6.20	6.20	6.20	6.20	6.15	6.25
gamma-BHC (Lindane)	5.32	5.32	5.33	5.32	5.27	5.37
Heptachlor	6.25	6.25	6.25	6.25	6.20	6.30
Aldrin	6.92	6.92	6.92	6.92	6.87	6.97
Heptachlor epoxide	8.26	8.26	8.26	8.26	8.19	8.33
Endosulfan I	9.08	9.08	9.08	9.08	9.01	9.15
Dieldrin	9.70	9.70	9.70	9.70	9.63	9.77
4,4'-DDE	9.58	9.58	9.58	9.58	9.51	9.65
Endrin	10.34	10.34	10.35	10.34	10.27	10.41
Endosulfan II	10.85	10.84	10.84	10.84	10.77	10.91
4,4'-DDD	10.87	10.87	10.88	10.87	10.80	10.94
Endosulfan sulfate	12.26	12.26	12.26	12.26	12.19	12.33
4,4'-DDT	11.55	11.55	11.55	11.55	11.48	11.62
Methoxychlor	13.22	13.22	13.23	13.22	13.15	13.29
Endrin ketone	13.35	13.35	13.35	13.35	13.28	13.42
Endrin aldehyde	11.64	11.64	11.64	11.64	11.57	11.71
alpha-Chlordane	9.03	9.03	9.03	9.03	8.96	9.10
gamma-Chlordane	8.68	8.69	8.69	8.69	8.62	8.76
Tetrachloro-m-xylene	3.27	3.27	3.27	3.27	3.22	3.32
Decachlorobiphenyl	16.33	16.33	16.34	16.33	16.23	16.43

* Surrogate retention times are measured from Standard Mix A analyses.

Retention time windows are +/- 0.05 minutes for all compounds that elute before Heptachlor epoxide, +/- 0.07 minutes for all other compounds, except +/- 0.10 minutes for Decachlorobiphenyl.

6LCG
LOW CONCENTRATION WATER PESTICIDE
INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

ab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Instrument ID: TRACEGC82Level (x low): low 1.0 mid 4.0 high 16.0

GC Column: CLPEST ID: 0.53(MM) Date(s) Analyzed: 10/05/2005 10/05/2005

COMPOUND	RT OF STANDARDS LOW	MID	HIGH	MEAN RT	RT WINDOW FROM	TO
alpha-BHC	4.39	4.39	4.40	4.39	4.34	4.44
beta-BHC	5.35	5.35	5.35	5.35	5.30	5.40
delta-BHC	5.71	5.71	5.71	5.71	5.66	5.76
gamma-BHC (Lindane)	5.10	5.09	5.10	5.10	5.05	5.15
Heptachlor	6.16	6.16	6.16	6.16	6.11	6.21
Aldrin	6.83	6.83	6.83	6.83	6.78	6.88
Heptachlor epoxide	8.36	8.36	8.36	8.36	8.29	8.43
Endosulfan I	9.28	9.28	9.29	9.28	9.21	9.35
Dieldrin	9.89	9.89	9.90	9.89	9.82	9.96
4,4'-DDE	9.41	9.41	9.41	9.41	9.34	9.48
Endrin	10.43	10.43	10.43	10.43	10.36	10.50
Endosulfan II	11.00	11.00	11.00	11.00	10.93	11.07
4,4'-DDD	10.91	10.91	10.91	10.91	10.84	10.98
Endosulfan sulfate	13.19	13.19	13.19	13.19	13.12	13.26
4,4'-DDT	11.60	11.60	11.60	11.60	11.53	11.67
Methoxychlor	13.04	13.04	13.04	13.04	12.97	13.11
Endrin ketone	13.80	13.81	13.81	13.81	13.74	13.88
Endrin aldehyde	12.10	12.10	12.10	12.10	12.03	12.17
alpha-Chlordane	9.00	9.01	9.00	9.00	8.93	9.07
gamma-Chlordane	8.67	8.67	8.67	8.67	8.60	8.74
Tetrachloro-m-xylene	3.26	3.26	3.26	3.26	3.21	3.31
Decachlorobiphenyl	16.67	16.67	16.67	16.67	16.57	16.77

* Surrogate retention times are measured from Standard Mix A analyses.

Retention time windows are +/- 0.05 minutes for all compounds that elute before Heptachlor epoxide, +/- 0.07 minutes for all other compounds, except +/- 0.10 minutes for Decachlorobiphenyl.

6LCG
LOW CONCENTRATION WATER PESTICIDE
INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Instrument ID: TRACEGC83Level (x low): low 1.0 mid 4.0 high 16.0

GC Column: CLPEST2 ID: 0.53(MM) Date(s) Analyzed: 10/05/2005 10/05/2005

COMPOUND	RT OF STANDARDS LOW	MID	HIGH	MEAN RT	RT WINDOW FROM	TO
alpha-BHC	5.82	5.82	5.83	5.82	5.77	5.87
beta-BHC	7.03	7.03	7.03	7.03	6.98	7.08
delta-BHC	7.77	7.78	7.77	7.77	7.72	7.82
gamma-BHC (Lindane)	6.74	6.74	6.75	6.74	6.69	6.79
Heptachlor	7.85	7.85	7.85	7.85	7.80	7.90
Aldrin	8.64	8.65	8.64	8.64	8.59	8.69
Heptachlor epoxide	10.20	10.21	10.21	10.21	10.14	10.28
Endosulfan I	11.17	11.18	11.18	11.18	11.11	11.25
Dieldrin	11.90	11.90	11.90	11.90	11.83	11.97
4,4'-DDE	11.73	11.73	11.73	11.73	11.66	11.80
Endrin	12.65	12.65	12.65	12.65	12.58	12.72
Endosulfan II	13.23	13.24	13.24	13.24	13.17	13.31
4,4'-DDD	13.24	13.24	13.24	13.24	13.17	13.31
Endosulfan sulfate	14.87	14.88	14.88	14.88	14.81	14.95
4,4'-DDT	14.03	14.03	14.03	14.03	13.96	14.10
Methoxychlor	15.96	15.96	15.97	15.96	15.89	16.03
Endrin ketone	16.16	16.16	16.16	16.16	16.09	16.23
Endrin aldehyde	14.15	14.16	14.15	14.15	14.08	14.22
alpha-Chlordane	11.10	11.10	11.10	11.10	11.03	11.17
gamma-Chlordane	10.71	10.71	10.71	10.71	10.64	10.78
Tetrachloro-m-xylene	4.28	4.28	4.28	4.28	4.23	4.33
Decachlorobiphenyl	19.61	19.61	19.61	19.61	19.51	19.71

* Surrogate retention times are measured from Standard Mix A analyses.

Retention time windows are +/- 0.05 minutes for all compounds that elute before Heptachlor epoxide, +/- 0.07 minutes for all other compounds, except +/- 0.10 minutes for Decachlorobiphenyl.

6LCH
LOW CONCENTRATION WATER PESTICIDE
INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Instrument ID: TRACEGC80Level (x low): low 1.0 mid 4.0 high 16.0

GC Column: CLPEST ID: 0.53(MM) Date(s) Analyzed: 09/30/2005 09/30/2005

COMPOUND	CALIBRATION FACTORS LOW	MID	HIGH	MEAN	%RSD
alpha-BHC	681800	816650	779563	759338	9.2
beta-BHC	305200	303500	293013	300571	2.2
delta-BHC	670600	661850	662738	665063	0.7
gamma-BHC (Lindane)	668400	759250	722163	716604	6.4
Heptachlor	729400	784550	700550	738167	5.8
Aldrin	688600	636950	601063	642204	6.9
Heptachlor epoxide	669800	607700	554275	610592	9.5
Endosulfan I	560800	629050	539800	576550	8.1
Dieldrin	528400	586725	524388	546504	6.4
4,4'-DDE	585100	526150	497700	536317	8.3
Endrin	447600	485700	437313	456871	5.6
Endosulfan II	540800	467975	442950	483908	10.5
4,4'-DDD	345400	411450	365794	374215	9.0
Endosulfan sulfate	550500	482850	445094	492815	10.8
4,4'-DDT	417900	457225	410100	428408	5.9
Methoxychlor	218200	222300	182998	207833	10.4
Endrin ketone	567400	495800	456188	506463	11.1
Endrin aldehyde	417600	367350	340006	374985	10.5
alpha-Chlordane	626800	554050	506113	562321	10.8
gamma-Chlordane	654200	608400	551250	604617	8.5
Tetrachloro-m-xylene	460400	513950	472125	482158	5.8
Decachlorobiphenyl	620200	615700	514563	583488	10.2

* Surrogate calibration factors are measured from Standard Mix A analyses.

6LCH
LOW CONCENTRATION WATER PESTICIDE
INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Instrument ID: TRACEGC81Level (x low): low 1.0 mid 4.0 high 16.0

GC Column: CLPEST2 ID: 0.53(MM) Date(s) Analyzed: 09/30/2005 09/30/2005

COMPOUND	CALIBRATION FACTORS LOW	MID	HIGH	MEAN	%RSD
alpha-BHC	592200	672300	625263	629921	6.4
beta-BHC	266400	253500	238763	252888	5.5
delta-BHC	565000	543450	537663	548704	2.6
gamma-BHC (Lindane)	602600	637150	589675	609808	4.0
Heptachlor	622400	662950	575200	620183	7.1
Aldrin	604600	561500	496238	554113	9.8
Heptachlor epoxide	601600	530250	464638	532163	12.9
Endosulfan I	495800	546800	442125	494908	10.6
Dieldrin	479800	500075	429938	469938	7.7
4,4'-DDE	520000	460650	409325	463325	12.0
Endrin	406900	419850	356288	394346	8.5
Endosulfan II	471700	402775	363438	412638	13.3
4,4'-DDD	319900	348450	299888	322746	7.6
Endosulfan sulfate	473800	400500	350675	408325	15.2
4,4'-DDT	388100	420675	344644	384473	9
Methoxychlor	196160	189110	149669	178313	14
Endrin ketone	485200	414175	369900	423092	13.7
Endrin aldehyde	392800	313450	270844	325698	19.0
alpha-Chlordane	560800	491800	428900	493833	13.4
gamma-Chlordane	608000	530000	461688	533229	13.7
Tetrachloro-m-xylene	384800	423700	371975	393492	6.8
Decachlorobiphenyl	502100	482325	384288	456238	13.8

* Surrogate calibration factors are measured from Standard Mix A analyses.

6LCH
LOW CONCENTRATION WATER PESTICIDE
INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Instrument ID: TRACEGC82Level (x low): low 1.0 mid 4.0 high 16.0

GC Column: CLPEST ID: 0.53(MM) Date(s) Analyzed: 10/05/2005 10/05/2005

COMPOUND	CALIBRATION FACTORS LOW	MID	HIGH	MEAN	%RSD
alpha-BHC	983200	1186150	1193325	1120892	10.6
beta-BHC	515400	520750	471800	502650	5.3
delta-BHC	1067000	1126550	1178713	1124088	5.0
gamma-BHC (Lindane)	955800	1121350	1128013	1068388	9.1
Heptachlor	1148200	1280200	1169375	1199258	5.9
Aldrin	1104400	1080000	1026038	1070146	3.7
Heptachlor epoxide	1104600	1070700	991700	1055667	5.5
Endosulfan I	958200	1100200	944150	1000850	8.6
Dieldrin	921400	1030725	1006675	986267	5.8
4,4'-DDE	1032200	994300	964138	996879	3.4
Endrin	685500	762275	698050	715275	5.8
Endosulfan II	992300	927200	907356	942285	4.7
4,4'-DDD	612500	709125	672413	664679	7.3
Endosulfan sulfate	1001300	945750	901675	949575	5.3
4,4'-DDT	751000	840075	784713	791929	5.7
Methoxychlor	418260	460690	393766	424239	8.0
Endrin ketone	1021300	979550	935388	978746	4.4
Endrin aldehyde	782400	743350	685050	736933	6.6
alpha-Chlordane	1002400	981750	896813	960321	5.8
gamma-Chlordane	1134800	1099000	1007538	1080446	6.1
Tetrachloro-m-xylene	603200	719050	639238	653829	9.1
Decachlorobiphenyl	1125900	1191025	1037575	1118167	6.9

* Surrogate calibration factors are measured from Standard Mix A analyses.

6LCH
LOW CONCENTRATION WATER PESTICIDE
INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Instrument ID: TRACEGC83Level (x low): low 1.0 mid 4.0 high 16.0

GC Column: CLPEST2 ID: 0.53(MM) Date(s) Analyzed: 10/05/2005 10/05/2005

COMPOUND	CALIBRATION FACTORS LOW	MID	HIGH	MEAN	%RSD
alpha-BHC	1477000	2064950	2371888	1971279	23.1
beta-BHC	801200	807050	775088	794446	2.1
delta-BHC	1599000	1879650	2236925	1905192	16.8
gamma-BHC (Lindane)	1480600	1903750	2135863	1840071	18.1
Heptachlor	1699600	2134550	2264188	2032779	14.5
Aldrin	1663200	1839200	2027925	1843442	9.9
Heptachlor epoxide	1685000	1782000	1900438	1789146	6.0
Endosulfan I	1460800	1834350	1854425	1716525	12.9
Dieldrin	1388800	1848950	1974319	1737356	17.7
4,4'-DDE	1611500	1770050	1964650	1782067	9.9
Endrin	1195600	1510625	1566519	1424248	14.0
Endosulfan II	1524700	1601525	1767144	1631123	7.6
4,4'-DDD	936100	1303075	1425969	1221715	20.9
Endosulfan sulfate	1528800	1655950	1834625	1673125	9.2
4,4'-DDT	991900	1522700	1633438	1382679	24
Methoxychlor	693500	823570	740585	752552	8
Endrin ketone	1582700	1712350	1787150	1694067	6.1
Endrin aldehyde	1152900	1196525	1283719	1211048	5.5
alpha-Chlordane	1606200	1717800	1824650	1716217	6.4
gamma-Chlordane	1708200	1846350	1992863	1849138	7.7
Tetrachloro-m-xylene	902000	1069850	1006525	992792	8.5
Decachlorobiphenyl	1678600	1977350	1951363	1869104	8.9

* Surrogate calibration factors are measured from Standard Mix A analyses.

b. Initial Calibration Data of Multicomponent Analytes (Form VI LCP-3)

For all GC columns, all instruments, in chronological order by GC column and instrument.

6LCI
LOW CONCENTRATION WATER PESTICIDE
INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Instrument ID: TRACEGC80 Date(s) Analyzed: 09/30/2005 09/30/2005

GC Column: CLPEST ID: 0.53(MM)

COMPOUND	AMOUNT (NG)	PEAK1	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Toxaphene	0.50	1	9.35	9.28	9.42	15378
		2	10.37	10.30	10.44	22034
		3	10.81	10.74	10.88	23214
		4	11.57	11.50	11.64	15628
		5	11.97	11.90	12.04	20256
Aroclor-1016	0.10	1	3.24	3.17	3.31	10970
		2	3.88	3.81	3.95	16950
		3	4.75	4.68	4.82	42210
		4	5.01	4.94	5.08	16350
		5	5.84	5.77	5.91	16300
Aroclor-1221	0.20	1	1.91	1.84	1.98	4435
		2	2.93	2.86	3.00	4800
		3	3.19	3.12	3.26	1785
		4	3.24	3.17	3.31	14155
		5				
Aroclor-1232	0.10	1	3.24	3.17	3.31	10630
		2	3.88	3.81	3.95	46
		3	4.75	4.68	4.82	176
		4	5.01	4.94	5.08	7120
		5	6.76	6.69	6.83	5720
Aroclor-1242	0.10	1	3.24	3.17	3.31	9700
		2	3.88	3.81	3.95	11120
		3	4.75	4.68	4.82	32070
		4	5.01	4.94	5.08	12110
		5	6.74	6.67	6.81	8900
Aroclor-1248	0.10	1	5.42	5.35	5.49	20140
		2	5.84	5.77	5.91	19340
		3	6.73	6.66	6.80	19140
		4	7.18	7.11	7.25	18100
		5	8.02	7.95	8.09	10560
Aroclor-1254	0.10	1	7.19	7.12	7.26	23730
		2	8.01	7.94	8.08	29260
		3	8.61	8.54	8.68	33160
		4	9.02	8.95	9.09	24540
		5	9.61	9.54	9.68	34760
Aroclor-1260	0.10	1	9.02	8.95	9.09	61250
		2	10.39	10.32	10.46	26340
		3	11.09	11.02	11.16	72420
		4	11.68	11.61	11.75	36430
		5	13.06	12.99	13.13	15310

1 At least 3 peaks for each column are required for identification of multicomponent analytes.

6LCI
LOW CONCENTRATION WATER PESTICIDE
INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Instrument ID: TRACEGC81 Date(s) Analyzed: 09/30/2005 09/30/2005

GC Column: CLPEST2 ID: 0.53(MM)

COMPOUND	AMOUNT (NG)	PEAK1	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Toxaphene	0.50	1	11.05	10.98	11.12	17876
		2	12.15	12.08	12.22	17342
		3	12.73	12.66	12.80	25134
		4	13.58	13.51	13.65	17820
		5	14.08	14.01	14.15	15950
Aroclor-1016	0.10	1	4.29	4.22	4.36	9640
		2	5.15	5.08	5.22	16300
		3	6.11	6.04	6.18	35280
		4	6.40	6.33	6.47	16500
		5	7.43	7.36	7.50	11550
Aroclor-1221	0.20	1	2.50	2.43	2.57	2145
		2	3.88	3.81	3.95	3345
		3	4.17	4.10	4.24	3320
		4	4.29	4.22	4.36	13000
		5				
Aroclor-1232	0.10	1	4.29	4.22	4.36	9410
		2	5.15	5.08	5.22	6740
		3	6.11	6.04	6.18	15020
		4	6.40	6.33	6.47	8170
		5	8.37	8.30	8.44	5550
Aroclor-1242	0.10	1	4.29	4.22	4.36	7660
		2	5.15	5.08	5.22	12500
		3	6.11	6.04	6.18	26460
		4	6.40	6.33	6.47	12810
		5	8.38	8.31	8.45	12190
Aroclor-1248	0.10	1	6.11	6.04	6.18	17410
		2	7.70	7.63	7.77	15660
		3	8.37	8.30	8.44	19740
		4	9.80	9.73	9.87	11720
		5	10.33	10.26	10.40	14640
Aroclor-1254	0.10	1	8.82	8.75	8.89	22090
		2	9.80	9.73	9.87	28130
		3	10.33	10.26	10.40	32130
		4	10.75	10.68	10.82	19070
		5	11.51	11.44	11.58	34670
Aroclor-1260	0.10	1	10.74	10.67	10.81	43770
		2	11.73	11.66	11.80	29190
		3	12.96	12.89	13.03	61120
		4	13.75	13.68	13.82	46750
		5	15.06	14.99	15.13	16220

1 At least 3 peaks for each column are required for identification of multicomponent analytes.

6LCI
LOW CONCENTRATION WATER PESTICIDE
INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Instrument ID: TRACEGC82 Date(s) Analyzed: 10/05/2005 10/05/2005

GC Column: CLPEST ID: 0.53(MM)

COMPOUND	AMOUNT (NG)	PEAK1	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Toxaphene	0.50	1	11.16	11.09	11.23	26452
		2	12.35	12.28	12.42	38052
		3	12.87	12.80	12.94	39090
		4	13.75	13.68	13.82	26258
		5	14.20	14.13	14.27	19594
Aroclor-1016	0.10	1	4.02	3.95	4.09	13390
		2	4.79	4.72	4.86	17010
		3	5.81	5.74	5.88	55900
		4	6.12	6.05	6.19	23740
		5	7.08	7.01	7.15	18460
Aroclor-1221	0.20	1	2.40	2.33	2.47	4975
		2	3.65	3.58	3.72	5725
		3	3.93	3.86	4.00	2670
		4	4.02	3.95	4.09	20220
		5				
Aroclor-1232	0.10	1	4.02	3.95	4.09	12810
		2	4.79	4.72	4.86	479
		3	5.80	5.73	5.87	217
		4	6.11	6.04	6.18	10560
		5	8.11	8.04	8.18	7930
Aroclor-1242	0.10	1	4.02	3.95	4.09	8150
		2	4.78	4.71	4.85	13840
		3	5.80	5.73	5.87	42870
		4	6.11	6.04	6.18	18330
		5	8.11	8.04	8.18	16240
Aroclor-1248	0.10	1	5.80	5.73	5.87	25400
		2	7.08	7.01	7.15	23840
		3	8.11	8.04	8.18	32100
		4	8.64	8.57	8.71	28000
		5	10.31	10.24	10.38	21490
Aroclor-1254	0.10	1	8.65	8.58	8.72	41960
		2	9.61	9.54	9.68	51040
		3	10.30	10.23	10.37	65310
		4	10.78	10.71	10.85	51880
		5	11.47	11.40	11.54	73260
Aroclor-1260	0.10	1	10.79	10.72	10.86	126650
		2	12.38	12.31	12.45	59730
		3	13.18	13.11	13.25	136470
		4	13.86	13.79	13.93	72960
		5	15.47	15.40	15.54	26850

1 At least 3 peaks for each column are required for identification of multicomponent analytes.

6LCI
LOW CONCENTRATION WATER PESTICIDE
INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Instrument ID: TRACEGC83 Date(s) Analyzed: 10/05/2005 10/05/2005

GC Column: CLPEST2 ID: 0.53(MM)

COMPOUND	AMOUNT (NG)	PEAK1	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Toxaphene	0.50	1	13.47	13.40	13.54	61726
		2	14.74	14.67	14.81	57308
		3	15.43	15.36	15.50	88194
		4	16.43	16.36	16.50	61066
		5	16.99	16.92	17.06	58884
Aroclor-1016	0.10	1	5.51	5.44	5.58	20160
		2	6.53	6.46	6.60	37680
		3	7.67	7.60	7.74	83020
		4	8.02	7.95	8.09	36890
		5	9.55	9.48	9.62	29820
Aroclor-1221	0.20	1	3.31	3.24	3.38	4850
		2	5.02	4.95	5.09	6850
		3	5.36	5.29	5.43	7825
		4	5.51	5.44	5.58	30150
		5				
Aroclor-1232	0.10	1	5.51	5.44	5.58	24490
		2	6.53	6.46	6.60	17100
		3	7.67	7.60	7.74	35020
		4	8.02	7.95	8.09	15940
		5	10.34	10.27	10.41	13570
Aroclor-1242	0.10	1	5.50	5.43	5.57	19180
		2	6.53	6.46	6.60	29400
		3	7.67	7.60	7.74	63460
		4	8.02	7.95	8.09	27260
		5	10.34	10.27	10.41	28070
Aroclor-1248	0.10	1	7.67	7.60	7.74	38910
		2	9.54	9.47	9.61	39020
		3	10.33	10.26	10.40	48790
		4	12.01	11.94	12.08	29160
		5	12.61	12.54	12.68	32020
Aroclor-1254	0.10	1	10.85	10.78	10.92	52590
		2	12.01	11.94	12.08	70700
		3	12.62	12.55	12.69	88810
		4	13.10	13.03	13.17	55550
		5	14.00	13.93	14.07	105450
Aroclor-1260	0.10	1	13.10	13.03	13.17	140730
		2	14.25	14.18	14.32	102310
		3	15.67	15.60	15.74	225240
		4	16.59	16.52	16.66	146870
		5	18.12	18.05	18.19	51310

1 At least 3 peaks for each column are required for identification of multicomponent analytes.

c. Analyte Resolution Summary (Form VI LCP-4)

For all GC columns, all instruments, in chronological order by GC column and instrument.

6LCJ

LOW CONCENTRATION WATER PESTICIDE ANALYTE RESOLUTION SUMMARY

ab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

GC Column (1): CLPEST ID: 0.53 (MM) Instrument ID (1): TRACEGC80

EPA Sample No. (RESC##): RESC84 Lab Sample ID (1): RESC84

Date Analyzed (1): 09/30/2005 Time Analyzed (1): 1748

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	2.61	100.0
02	gamma-Chlordane	7.20	100.0
03	Endosulfan I	7.72	82.3
04	4,4'-DDE	7.85	100.0
05	Dieldrin	8.25	100.0
06	Methoxychlor	10.97	76.2
07	Endosulfan sulfate	11.10	100.0
08	Endrin ketone	11.63	100.0
09	Decachlorobiphenyl	14.09	

GC Column (2): CLPEST2 ID: 0.53 (MM) Instrument ID (2): TRACEGC81

EPA Sample No. (RESC##): RESC84 Lab Sample ID (2): RESC84

Date Analyzed (2): 09/30/2005 Time Analyzed (2): 1748

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	3.28	100.0
02	gamma-Chlordane	8.68	100.0
03	Endosulfan I	9.08	100.0
04	4,4'-DDE	9.58	77.7
05	Dieldrin	9.70	100.0
06	Endosulfan sulfate	12.26	100.0
07	Methoxychlor	13.23	69.3
08	Endrin ketone	13.35	100.0
09	Decachlorobiphenyl	16.33	

6LCJ

LOW CONCENTRATION WATER PESTICIDE ANALYTE RESOLUTION SUMMARY

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

GC Column (1): CLPEST ID: 0.53 (MM) Instrument ID (1): TRACEGC82

EPA Sample No. (RESC##): RESC94 Lab Sample ID (1): RESC94

Date Analyzed (1): 10/05/2005 Time Analyzed (1): 1557

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	3.26	100.0
02	gamma-Chlordane	8.67	100.0
03	Endosulfan I	9.28	89.8
04	4,4'-DDE	9.42	100.0
05	Dieldrin	9.89	100.0
06	Methoxychlor	13.04	94.3
07	Endosulfan sulfate	13.19	100.0
08	Endrin ketone	13.81	100.0
09	Decachlorobiphenyl	16.67	

GC Column (2): CLPEST2 ID: 0.53 (MM) Instrument ID (2): TRACEGC83

EPA Sample No. (RESC##): RESC94 Lab Sample ID (2): RESC94

Date Analyzed (2): 10/05/2005 Time Analyzed (2): 1557

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	4.28	100.0
02	gamma-Chlordane	10.71	100.0
03	Endosulfan I	11.18	100.0
04	4,4'-DDE	11.73	97.5
05	Dieldrin	11.90	100.0
06	Endosulfan sulfate	14.88	100.0
07	Methoxychlor	15.97	98.5
08	Endrin ketone	16.16	100.0
09	Decachlorobiphenyl	19.60	

d. Performance Evaluation Mixture (Form VI LCP-5)

For all GC columns, all instruments, in chronological order by GC column and instrument.

6LCK

LOW CONCENTRATION WATER PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

GC Column (1): CLPEST ID: 0.53 (MM) Instrument ID (1): TRACEGC80

EPA Sample No. (PEM##): PEM84 Lab Sample ID (1): PEM84

Date Analyzed (1): 09/30/2005 Time Analyzed (1): 1810

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	2.61	100.0
02	alpha-BHC	3.56	100.0
03	gamma-BHC (Lindane)	4.15	100.0
04	beta-BHC	4.37	100.0
05	Endrin	8.71	100.0
06	4,4'-DDT	9.73	100.0
07	Methoxychlor	10.98	100.0
08	Decachlorobiphenyl	14.09	

GC Column (2): CLPEST2 ID: 0.53 (MM) Instrument ID (2): TRACEGC81

EPA Sample No. (PEM##): PEM84 Lab Sample ID (2): PEM84

Date Analyzed (2): 09/30/2005 Time Analyzed (2): 1810

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	3.28	100.0
02	alpha-BHC	4.55	100.0
03	gamma-BHC (Lindane)	5.32	100.0
04	beta-BHC	5.57	100.0
05	Endrin	10.34	100.0
06	4,4'-DDT	11.55	100.0
07	Methoxychlor	13.23	100.0
08	Decachlorobiphenyl	16.33	

6LCK

LOW CONCENTRATION WATER PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

GC Column (1): CLPEST ID: 0.53 (MM) Instrument ID (1): TRACEGC80

EPA Sample No. (PEM##): PEM85 Lab Sample ID (1): PEM85

Date Analyzed (1): 09/30/2005 Time Analyzed (1): 2336

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	2.60	100.0
02	alpha-BHC	3.55	100.0
03	gamma-BHC (Lindane)	4.14	100.0
04	beta-BHC	4.36	100.0
05	Endrin	8.71	100.0
06	4,4'-DDT	9.73	100.0
07	Methoxychlor	10.98	100.0
08	Decachlorobiphenyl	14.09	

GC Column (2): CLPEST2 ID: 0.53 (MM) Instrument ID (2): TRACEGC81

EPA Sample No. (PEM##): PEM85 Lab Sample ID (2): PEM85

Date Analyzed (2): 09/30/2005 Time Analyzed (2): 2336

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	3.27	100.0
02	alpha-BHC	4.55	100.0
03	gamma-BHC (Lindane)	5.32	100.0
04	beta-BHC	5.57	100.0
05	Endrin	10.34	100.0
06	4,4'-DDT	11.55	100.0
07	Methoxychlor	13.23	100.0
08	Decachlorobiphenyl	16.33	

6LCK

LOW CONCENTRATION WATER PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

GC Column (1): CLPEST ID: 0.53 (MM) Instrument ID (1): TRACEGC80

EPA Sample No. (PEM##): PEMJJ Lab Sample ID (1): PEMJJ

Date Analyzed (1): 10/01/2005 Time Analyzed (1): 2034

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	2.61	100.0
02	alpha-BHC	3.55	100.0
03	gamma-BHC (Lindane)	4.15	100.0
04	beta-BHC	4.37	100.0
05	Endrin	8.71	100.0
06	4,4'-DDT	9.73	100.0
07	Methoxychlor	10.98	100.0
08	Decachlorobiphenyl	14.09	

GC Column (2): CLPEST2 ID: 0.53 (MM) Instrument ID (2): TRACEGC81

EPA Sample No. (PEM##): PEMJJ Lab Sample ID (2): PEMJJ

Date Analyzed (2): 10/01/2005 Time Analyzed (2): 2034

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	3.27	100.0
02	alpha-BHC	4.55	100.0
03	gamma-BHC (Lindane)	5.32	100.0
04	beta-BHC	5.57	100.0
05	Endrin	10.34	100.0
06	4,4'-DDT	11.55	100.0
07	Methoxychlor	13.23	100.0
08	Decachlorobiphenyl	16.33	

6LCK

LOW CONCENTRATION WATER PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

GC Column (1): CLPEST ID: 0.53 (MM) Instrument ID (1): TRACEGC82

EPA Sample No. (PEM##): PEM94 Lab Sample ID (1): PEM94

Date Analyzed (1): 10/05/2005 Time Analyzed (1): 1623

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	3.26	100.0
02	alpha-BHC	4.40	100.0
03	gamma-BHC (Lindane)	5.10	100.0
04	beta-BHC	5.35	100.0
05	Endrin	10.43	100.0
06	4,4'-DDT	11.60	100.0
07	Methoxychlor	13.04	100.0
08	Decachlorobiphenyl	16.67	

GC Column (2): CLPEST2 ID: 0.53 (MM) Instrument ID (2): TRACEGC83

EPA Sample No. (PEM##): PEM94 Lab Sample ID (2): PEM94

Date Analyzed (2): 10/05/2005 Time Analyzed (2): 1623

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	4.28	100.0
02	alpha-BHC	5.82	100.0
03	gamma-BHC (Lindane)	6.75	100.0
04	beta-BHC	7.03	100.0
05	Endrin	12.66	100.0
06	4,4'-DDT	14.03	100.0
07	Methoxychlor	15.97	100.0
08	Decachlorobiphenyl	19.61	

6LCK

LOW CONCENTRATION WATER PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

GC Column (1): CLPEST ID: 0.53 (MM) Instrument ID (1): TRACEGC82

EPA Sample No. (PEM##): PEM95 Lab Sample ID (1): PEM95

Date Analyzed (1): 10/05/2005 Time Analyzed (1): 2245

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	3.26	100.0
02	alpha-BHC	4.40	100.0
03	gamma-BHC (Lindane)	5.10	100.0
04	beta-BHC	5.35	100.0
05	Endrin	10.43	100.0
06	4,4'-DDT	11.60	100.0
07	Methoxychlor	13.04	100.0
08	Decachlorobiphenyl	16.67	

GC Column (2): CLPEST2 ID: 0.53 (MM) Instrument ID (2): TRACEGC83

EPA Sample No. (PEM##): PEM95 Lab Sample ID (2): PEM95

Date Analyzed (2): 10/05/2005 Time Analyzed (2): 2245

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	4.28	100.0
02	alpha-BHC	5.82	100.0
03	gamma-BHC (Lindane)	6.75	100.0
04	beta-BHC	7.04	100.0
05	Endrin	12.65	100.0
06	4,4'-DDT	14.03	100.0
07	Methoxychlor	15.97	100.0
08	Decachlorobiphenyl	19.61	

6LCK

LOW CONCENTRATION WATER PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

GC Column (1): CLPEST ID: 0.53 (MM) Instrument ID (1): TRACEGC82

EPA Sample No. (PEM##): PEMMF Lab Sample ID (1): PEMMF

Date Analyzed (1): 10/06/2005 Time Analyzed (1): 1430

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	3.27	100.0
02	alpha-BHC	4.40	100.0
03	gamma-BHC (Lindane)	5.11	100.0
04	beta-BHC	5.36	100.0
05	Endrin	10.44	100.0
06	4,4'-DDT	11.62	100.0
07	Methoxychlor	13.05	100.0
08	Decachlorobiphenyl	16.69	

GC Column (2): CLPEST2 ID: 0.53 (MM) Instrument ID (2): TRACEGC83

EPA Sample No. (PEM##): PEMMF Lab Sample ID (2): PEMMF

Date Analyzed (2): 10/06/2005 Time Analyzed (2): 1430

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	4.29	100.0
02	alpha-BHC	5.83	100.0
03	gamma-BHC (Lindane)	6.76	100.0
04	beta-BHC	7.05	100.0
05	Endrin	12.67	100.0
06	4,4'-DDT	14.04	100.0
07	Methoxychlor	15.98	100.0
08	Decachlorobiphenyl	19.62	

e. Individual Standard Mixture A (Form VI LCP-6)

For all GC columns, all instruments, in chronological order by GC column and instrument.

6LCL

LOW CONCENTRATION WATER INDIVIDUAL STANDARD MIXTURE (INDA)

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

GC Column (1): CLPEST ID: 0.53 (MM) Instrument ID (1): TRACEGC80

EPA Sample No. (INDAM##): INDAM84 Lab Sample ID (1): INDAM84

Date Analyzed (1): 09/30/2005 Time Analyzed (1): 2147

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	2.61	100.0
02	alpha-BHC	3.55	100.0
03	gamma-BHC (Lindane)	4.15	100.0
04	Heptachlor	5.05	100.0
05	Endosulfan I	7.72	100.0
06	Dieldrin	8.25	100.0
07	Endrin	8.71	100.0
08	4,4'-DDD	9.13	100.0
09	4,4'-DDT	9.73	100.0
10	Methoxychlor	10.97	100.0
11	Decachlorobiphenyl	14.09	

GC Column (2): CLPEST2 ID: 0.53 (MM) Instrument ID (2): TRACEGC81

EPA Sample No. (INDAM##): INDAM84 Lab Sample ID (2): INDAM84

Date Analyzed (2): 09/30/2005 Time Analyzed (2): 2147

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	3.27	100.0
02	alpha-BHC	4.55	100.0
03	gamma-BHC (Lindane)	5.32	100.0
04	Heptachlor	6.25	100.0
05	Endosulfan I	9.08	100.0
06	Dieldrin	9.70	100.0
07	Endrin	10.34	100.0
08	4,4'-DDD	10.87	100.0
09	4,4'-DDT	11.55	100.0
10	Methoxychlor	13.23	100.0
11	Decachlorobiphenyl	16.33	

6LCL

LOW CONCENTRATION WATER INDIVIDUAL STANDARD MIXTURE (INDA)

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

GC Column (1): CLPEST ID: 0.53 (MM) Instrument ID (1): TRACEGC80

EPA Sample No. (INDAM##): INDAMJH Lab Sample ID (1): INDAMJH

Date Analyzed (1): 10/01/2005 Time Analyzed (1): 1509

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	2.61	100.0
02	alpha-BHC	3.55	100.0
03	gamma-BHC (Lindane)	4.15	100.0
04	Heptachlor	5.05	100.0
05	Endosulfan I	7.72	100.0
06	Dieldrin	8.25	100.0
07	Endrin	8.71	100.0
08	4,4'-DDD	9.13	100.0
09	4,4'-DDT	9.72	100.0
10	Methoxychlor	10.97	100.0
11	Decachlorobiphenyl	14.09	

GC Column (2): CLPEST2 ID: 0.53 (MM) Instrument ID (2): TRACEGC81

EPA Sample No. (INDAM##): INDAMJH Lab Sample ID (2): INDAMJH

Date Analyzed (2): 10/01/2005 Time Analyzed (2): 1509

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	3.27	100.0
02	alpha-BHC	4.54	100.0
03	gamma-BHC (Lindane)	5.32	100.0
04	Heptachlor	6.25	100.0
05	Endosulfan I	9.08	100.0
06	Dieldrin	9.70	100.0
07	Endrin	10.34	100.0
08	4,4'-DDD	10.87	100.0
09	4,4'-DDT	11.55	100.0
10	Methoxychlor	13.22	100.0
11	Decachlorobiphenyl	16.33	

6LCL

LOW CONCENTRATION WATER INDIVIDUAL STANDARD MIXTURE (INDA)

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

GC Column (1): CLPEST ID: 0.53 (MM) Instrument ID (1): TRACEGC80

EPA Sample No. (INDAM##): INDAMJL Lab Sample ID (1): INDAMJL

Date Analyzed (1): 10/02/2005 Time Analyzed (1): 0200

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	2.61	100.0
02	alpha-BHC	3.55	100.0
03	gamma-BHC (Lindane)	4.14	100.0
04	Heptachlor	5.05	100.0
05	Endosulfan I	7.72	100.0
06	Dieldrin	8.25	100.0
07	Endrin	8.71	100.0
08	4,4'-DDD	9.13	100.0
09	4,4'-DDT	9.72	100.0
10	Methoxychlor	10.97	100.0
11	Decachlorobiphenyl	14.09	

GC Column (2): CLPEST2 ID: 0.53 (MM) Instrument ID (2): TRACEGC81

EPA Sample No. (INDAM##): INDAMJL Lab Sample ID (2): INDAMJL

Date Analyzed (2): 10/02/2005 Time Analyzed (2): 0200

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	3.27	100.0
02	alpha-BHC	4.55	100.0
03	gamma-BHC (Lindane)	5.32	100.0
04	Heptachlor	6.24	100.0
05	Endosulfan I	9.08	100.0
06	Dieldrin	9.70	100.0
07	Endrin	10.34	100.0
08	4,4'-DDD	10.87	100.0
09	4,4'-DDT	11.55	100.0
10	Methoxychlor	13.22	100.0
11	Decachlorobiphenyl	16.33	

6LCL

LOW CONCENTRATION WATER INDIVIDUAL STANDARD MIXTURE (INDA)

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

GC Column (1): CLPEST ID: 0.53 (MM) Instrument ID (1): TRACEGC82

EPA Sample No. (INDAM##): INDAM94 Lab Sample ID (1): INDAM94

Date Analyzed (1): 10/05/2005 Time Analyzed (1): 2038

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	3.26	100.0
02	alpha-BHC	4.39	100.0
03	gamma-BHC (Lindane)	5.10	100.0
04	Heptachlor	6.16	100.0
05	Endosulfan I	9.28	100.0
06	Dieldrin	9.89	100.0
07	Endrin	10.43	100.0
08	4,4'-DDD	10.91	100.0
09	4,4'-DDT	11.60	100.0
10	Methoxychlor	13.04	100.0
11	Decachlorobiphenyl	16.67	

GC Column (2): CLPEST2 ID: 0.53 (MM) Instrument ID (2): TRACEGC83

EPA Sample No. (INDAM##): INDAM94 Lab Sample ID (2): INDAM94

Date Analyzed (2): 10/05/2005 Time Analyzed (2): 2038

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	4.28	100.0
02	alpha-BHC	5.82	100.0
03	gamma-BHC (Lindane)	6.74	100.0
04	Heptachlor	7.85	100.0
05	Endosulfan I	11.18	100.0
06	Dieldrin	11.90	100.0
07	Endrin	12.65	100.0
08	4,4'-DDD	13.24	100.0
09	4,4'-DDT	14.03	100.0
10	Methoxychlor	15.97	100.0
11	Decachlorobiphenyl	19.61	

6LCL

LOW CONCENTRATION WATER INDIVIDUAL STANDARD MIXTURE (INDA)

ab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

GC Column (1): CLPEST ID: 0.53 (MM) Instrument ID (1): TRACEGC82

EPA Sample No. (INDAM##): INDAMMH Lab Sample ID (1): INDAMMH

Date Analyzed (1): 10/06/2005 Time Analyzed (1): 2245

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	3.27	100.0
02	alpha-BHC	4.41	100.0
03	gamma-BHC (Lindane)	5.11	100.0
04	Heptachlor	6.18	100.0
05	Endosulfan I	9.30	100.0
06	Dieldrin	9.91	100.0
07	Endrin	10.45	100.0
08	4,4'-DDD	10.93	100.0
09	4,4'-DDT	11.62	100.0
10	Methoxychlor	13.06	100.0
11	Decachlorobiphenyl	16.69	

GC Column (2): CLPEST2 ID: 0.53 (MM) Instrument ID (2): TRACEGC83

EPA Sample No. (INDAM##): INDAMMH Lab Sample ID (2): INDAMMH

Date Analyzed (2): 10/06/2005 Time Analyzed (2): 2245

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	4.29	100.0
02	alpha-BHC	5.84	100.0
03	gamma-BHC (Lindane)	6.76	100.0
04	Heptachlor	7.87	100.0
05	Endosulfan I	11.20	100.0
06	Dieldrin	11.92	100.0
07	Endrin	12.67	100.0
08	4,4'-DDD	13.26	100.0
09	4,4'-DDT	14.05	100.0
10	Methoxychlor	15.98	100.0
11	Decachlorobiphenyl	19.63	

f. Individual Standard Mixture B (Form VI LCP-7)

For all GC columns, all instruments, in chronological order by GC column and instrument.

6LCM

LOW CONCENTRATION WATER INDIVIDUAL STANDARD MIXTURE B (INDB)

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

GC Column (1): CLPEST ID: 0.53 (MM) Instrument ID (1): TRACEGC80

EPA Sample No. (INDBM##): INDBM84 Lab Sample ID (1): INDBM84

Date Analyzed (1): 09/30/2005 Time Analyzed (1): 2209

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	2.62	100.0
02	beta-BHC	4.37	100.0
03	delta-BHC	4.68	100.0
04	Aldrin	5.62	100.0
05	Heptachlor epoxide	6.94	100.0
06	gamma-Chlordane	7.20	100.0
07	alpha-Chlordane	7.49	100.0
08	4,4'-DDE	7.85	100.0
09	Endosulfan II	9.21	100.0
10	Endrin aldehyde	10.16	100.0
11	Endosulfan sulfate	11.10	100.0
12	Endrin ketone	11.63	100.0
13	Decachlorobiphenyl	14.09	

GC Column (2): CLPEST2 ID: 0.53 (MM) Instrument ID (2): TRACEGC81

EPA Sample No. (INDBM##): INDBM84 Lab Sample ID (2): INDBM84

Date Analyzed (2): 09/30/2005 Time Analyzed (2): 2209

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	3.28	100.0
02	beta-BHC	5.57	100.0
03	delta-BHC	6.20	100.0
04	Aldrin	6.92	100.0
05	Heptachlor epoxide	8.26	100.0
06	gamma-Chlordane	8.69	100.0
07	alpha-Chlordane	9.03	100.0
08	4,4'-DDE	9.58	100.0
09	Endosulfan II	10.84	100.0
10	Endrin aldehyde	11.64	100.0
11	Endosulfan sulfate	12.26	100.0
12	Endrin ketone	13.35	100.0
13	Decachlorobiphenyl	16.33	

6LCM

LOW CONCENTRATION WATER INDIVIDUAL STANDARD MIXTURE B (INDB)

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

GC Column (1): CLPEST ID: 0.53 (MM) Instrument ID (1): TRACEGC80

EPA Sample No. (INDBM##): INDBMJH Lab Sample ID (1): INDBMJH

Date Analyzed (1): 10/01/2005 Time Analyzed (1): 1531

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	2.61	100.0
02	beta-BHC	4.37	100.0
03	delta-BHC	4.68	100.0
04	Aldrin	5.62	100.0
05	Heptachlor epoxide	6.94	100.0
06	gamma-Chlordane	7.20	100.0
07	alpha-Chlordane	7.49	100.0
08	4,4'-DDE	7.85	100.0
09	Endosulfan II	9.21	100.0
10	Endrin aldehyde	10.16	100.0
11	Endosulfan sulfate	11.10	100.0
12	Endrin ketone	11.63	100.0
13	Decachlorobiphenyl	14.09	

GC Column (2): CLPEST2 ID: 0.53 (MM) Instrument ID (2): TRACEGC81

EPA Sample No. (INDBM##): INDBMJH Lab Sample ID (2): INDBMJH

Date Analyzed (2): 10/01/2005 Time Analyzed (2): 1531

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	3.27	100.0
02	beta-BHC	5.57	100.0
03	delta-BHC	6.19	100.0
04	Aldrin	6.92	100.0
05	Heptachlor epoxide	8.25	100.0
06	gamma-Chlordane	8.69	100.0
07	alpha-Chlordane	9.02	100.0
08	4,4'-DDE	9.58	100.0
09	Endosulfan II	10.84	100.0
10	Endrin aldehyde	11.64	100.0
11	Endosulfan sulfate	12.26	100.0
12	Endrin ketone	13.35	100.0
13	Decachlorobiphenyl	16.33	

6LCM

LOW CONCENTRATION WATER INDIVIDUAL STANDARD MIXTURE B (INDB)

b Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

GC Column (1): CLPEST ID: 0.53 (MM) Instrument ID (1): TRACEGC80

EPA Sample No. (INDBM##): INDBMJL Lab Sample ID (1): INDBMJL

Date Analyzed (1): 10/02/2005 Time Analyzed (1): 0222

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	2.60	100.0
02	beta-BHC	4.36	100.0
03	delta-BHC	4.67	100.0
04	Aldrin	5.61	100.0
05	Heptachlor epoxide	6.93	100.0
06	gamma-Chlordane	7.20	100.0
07	alpha-Chlordane	7.49	100.0
08	4,4'-DDE	7.84	100.0
09	Endosulfan II	9.20	100.0
10	Endrin aldehyde	10.16	100.0
11	Endosulfan sulfate	11.10	100.0
12	Endrin ketone	11.62	100.0
13	Decachlorobiphenyl	14.09	

GC Column (2): CLPEST2 ID: 0.53 (MM) Instrument ID (2): TRACEGC81

EPA Sample No. (INDBM##): INDBMJL Lab Sample ID (2): INDBMJL

Date Analyzed (2): 10/02/2005 Time Analyzed (2): 0222

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	3.27	100.0
02	beta-BHC	5.57	100.0
03	delta-BHC	6.19	100.0
04	Aldrin	6.92	100.0
05	Heptachlor epoxide	8.25	100.0
06	gamma-Chlordane	8.68	100.0
07	alpha-Chlordane	9.02	100.0
08	4,4'-DDE	9.58	100.0
09	Endosulfan II	10.84	100.0
10	Endrin aldehyde	11.63	100.0
11	Endosulfan sulfate	12.25	100.0
12	Endrin ketone	13.35	100.0
13	Decachlorobiphenyl	16.33	

6LCM

LOW CONCENTRATION WATER INDIVIDUAL STANDARD MIXTURE B (INDB)

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

GC Column (1): CLPEST ID: 0.53 (MM) Instrument ID (1): TRACEGC82

EPA Sample No. (INDBM##): INDBM94 Lab Sample ID (1): INDBM94

Date Analyzed (1): 10/05/2005 Time Analyzed (1): 2103

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	3.26	100.0
02	beta-BHC	5.35	100.0
03	delta-BHC	5.72	100.0
04	Aldrin	6.83	100.0
05	Heptachlor epoxide	8.36	100.0
06	gamma-Chlordane	8.67	100.0
07	alpha-Chlordane	9.01	100.0
08	4,4'-DDE	9.42	100.0
09	Endosulfan II	11.00	100.0
10	Endrin aldehyde	12.10	100.0
11	Endosulfan sulfate	13.19	100.0
12	Endrin ketone	13.81	100.0
13	Decachlorobiphenyl	16.67	

GC Column (2): CLPEST2 ID: 0.53 (MM) Instrument ID (2): TRACEGC83

EPA Sample No. (INDBM##): INDBM94 Lab Sample ID (2): INDBM94

Date Analyzed (2): 10/05/2005 Time Analyzed (2): 2103

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	4.28	100.0
02	beta-BHC	7.03	100.0
03	delta-BHC	7.78	100.0
04	Aldrin	8.65	100.0
05	Heptachlor epoxide	10.21	100.0
06	gamma-Chlordane	10.71	100.0
07	alpha-Chlordane	11.10	100.0
08	4,4'-DDE	11.74	100.0
09	Endosulfan II	13.24	100.0
10	Endrin aldehyde	14.16	100.0
11	Endosulfan sulfate	14.88	100.0
12	Endrin ketone	16.16	100.0
13	Decachlorobiphenyl	19.61	

6LCM
LOW CONCENTRATION WATER INDIVIDUAL STANDARD MIXTURE B (INDB)

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

GC Column (1): CLPEST ID: 0.53 (MM) Instrument ID (1): TRACEGC82

EPA Sample No. (INDBM##): INDBMMH Lab Sample ID (1): INDBMMH

Date Analyzed (1): 10/06/2005 Time Analyzed (1): 2311

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	3.28	100.0
02	beta-BHC	5.37	100.0
03	delta-BHC	5.74	100.0
04	Aldrin	6.85	100.0
05	Heptachlor epoxide	8.38	100.0
06	gamma-Chlordane	8.69	100.0
07	alpha-Chlordane	9.03	100.0
08	4,4'-DDE	9.44	100.0
09	Endosulfan II	11.02	100.0
10	Endrin aldehyde	12.13	100.0
11	Endosulfan sulfate	13.21	100.0
12	Endrin ketone	13.83	100.0
13	Decachlorobiphenyl	16.69	

GC Column (2): CLPEST2 ID: 0.53 (MM) Instrument ID (2): TRACEGC83

EPA Sample No. (INDBM##): INDBMMH Lab Sample ID (2): INDBMMH

Date Analyzed (2): 10/06/2005 Time Analyzed (2): 2311

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	4.30	100.0
02	beta-BHC	7.05	100.0
03	delta-BHC	7.79	100.0
04	Aldrin	8.66	100.0
05	Heptachlor epoxide	10.22	100.0
06	gamma-Chlordane	10.73	100.0
07	alpha-Chlordane	11.12	100.0
08	4,4'-DDE	11.75	100.0
09	Endosulfan II	13.26	100.0
10	Endrin aldehyde	14.18	100.0
11	Endosulfan sulfate	14.90	100.0
12	Endrin ketone	16.18	100.0
13	Decachlorobiphenyl	19.63	

g. Calibration Verification Summary (Form VII LCP-1)

For all performance evaluation mixtures and instrument blanks, on all GC columns and instruments, in chronological order by GC column and instrument.

Report for each associated instrument blank.

7LCG

LOW CONCENTRATION WATER PESTICIDE CALIBRATION VERIFICATION SUMMARY

I Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

GC Column: CLPEST ID: 0.53(MM) Init. Calib. Date(s): 09/30/2005 09/30/2005

EPA Sample No.(PIBLK##): _____ Date Analyzed : _____

Lab Sample ID (PIBLK) : _____ Time Analyzed : _____

EPA Sample No.(PEM##) : PEM84 Date Analyzed : 09/30/2005

Lab Sample ID (PEM) : PEM84 Time Analyzed : 1810

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (NG)	NOM AMOUNT (NG)	%D
alpha-BHC	3.56	3.50	3.60	0.011	0.010	10.0
beta-BHC	4.37	4.32	4.42	0.012	0.010	20.0
gamma-BHC (Lindane)	4.15	4.09	4.19	0.011	0.010	10.0
Endrin	8.71	8.64	8.78	0.059	0.050	18.0
4,4'-DDT	9.73	9.66	9.80	0.101	0.100	1.0
Methoxychlor	10.97	10.90	11.04	0.249	0.250	-0.4

4,4'-DDT % Breakdown (1): 0.99 Endrin % Breakdown (1): 7.90

Combined % Breakdown (1): 8.88

7LCG

LOW CONCENTRATION WATER PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

GC Column: CLPEST2 ID: 0.53(MM) Init. Calib. Date(s): 09/30/2005 09/30/2005

EPA Sample No.(PIBLK##): _____ Date Analyzed : _____

Lab Sample ID (PIBLK) : _____ Time Analyzed : _____

EPA Sample No.(PEM##) : PEM84 Date Analyzed : 09/30/2005

Lab Sample ID (PEM) : PEM84 Time Analyzed : 1810

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (NG)	NOM AMOUNT (NG)	%D
alpha-BHC	4.55	4.50	4.60	0.011	0.010	10.0
beta-BHC	5.57	5.52	5.62	0.012	0.010	20.0
gamma-BHC (Lindane)	5.32	5.27	5.37	0.011	0.010	10.0
Endrin	10.34	10.27	10.41	0.057	0.050	14.0
4,4'-DDT	11.55	11.48	11.62	0.092	0.100	-8.0
Methoxychlor	13.23	13.15	13.29	0.241	0.250	-3.6

4,4'-DDT % Breakdown (1): 0.75 Endrin % Breakdown (1): 3.01

Combined % Breakdown (1): 3.76

7LCG

LOW CONCENTRATION WATER PESTICIDE CALIBRATION VERIFICATION SUMMARY

I Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

GC Column: CLPEST ID: 0.53(MM) Init. Calib. Date(s): 09/30/2005 09/30/2005

EPA Sample No.(PIBLK##): PIBLK84 Date Analyzed : 09/30/2005

Lab Sample ID (PIBLK) : PIBLK84 Time Analyzed : 2314

EPA Sample No.(PEM##) : PEM85 Date Analyzed : 09/30/2005

Lab Sample ID (PEM) : PEM85 Time Analyzed : 2336

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (NG)	NOM AMOUNT (NG)	%D
alpha-BHC	3.55	3.50	3.60	0.010	0.010	-1.0
beta-BHC	4.36	4.32	4.42	0.012	0.010	20.0
gamma-BHC (Lindane)	4.14	4.09	4.19	0.010	0.010	0.0
Endrin	8.71	8.64	8.78	0.054	0.050	8.0
4,4'-DDT	9.73	9.66	9.80	0.097	0.100	-3.0
Methoxychlor	10.97	10.90	11.04	0.245	0.250	-2.0

4'-DDT % Breakdown (1): 0.72 Endrin % Breakdown (1): 6.67

Combined % Breakdown (1): 7.39

7LCG

LOW CONCENTRATION WATER PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

GC Column: CLPEST2 ID: 0.53(MM) Init. Calib. Date(s): 09/30/2005 09/30/2005

EPA Sample No.(PIBLK##): PIBLK85 Date Analyzed : 09/30/2005

Lab Sample ID (PIBLK) : PIBLK85 Time Analyzed : 2314

EPA Sample No.(PEM##) : PEM85 Date Analyzed : 09/30/2005

Lab Sample ID (PEM) : PEM85 Time Analyzed : 2336

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (NG)	NOM AMOUNT (NG)	%D
alpha-BHC	4.55	4.50	4.60	0.010	0.010	0.0
beta-BHC	5.57	5.52	5.62	0.011	0.010	10.0
gamma-BHC (Lindane)	5.32	5.27	5.37	0.010	0.010	0.0
Endrin	10.34	10.27	10.41	0.054	0.050	8.0
4,4'-DDT	11.55	11.48	11.62	0.089	0.100	-11.0
Methoxychlor	13.23	13.15	13.29	0.243	0.250	-2.8

4,4'-DDT % Breakdown (1): 0.79 Endrin % Breakdown (1): 1.97

Combined % Breakdown (1): 2.76

7LCG

LOW CONCENTRATION WATER PESTICIDE CALIBRATION VERIFICATION SUMMARY

I Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

GC Column: CLPEST ID: 0.53(MM) Init. Calib. Date(s): 09/30/2005 09/30/2005

EPA Sample No.(PIBLK##): PIBLKJI Date Analyzed : 10/01/2005

Lab Sample ID (PIBLK) : PIBLKJI Time Analyzed : 2013

EPA Sample No.(PEM##) : PEMJJ Date Analyzed : 10/01/2005

Lab Sample ID (PEM) : PEMJJ Time Analyzed : 2034

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (NG)	NOM AMOUNT (NG)	%D
alpha-BHC	3.55	3.50	3.60	0.010	0.010	-3.0
beta-BHC	4.37	4.32	4.42	0.012	0.010	20.0
gamma-BHC (Lindane)	4.14	4.09	4.19	0.010	0.010	-4.0
Endrin	8.71	8.64	8.78	0.054	0.050	8.0
4,4'-DDT	9.73	9.66	9.80	0.091	0.100	-9.0
Methoxychlor	10.97	10.90	11.04	0.226	0.250	-9.6

4'-DDT % Breakdown (1): 2.33 Endrin % Breakdown (1): 8.30

Combined % Breakdown (1): 10.63

7LCG

LOW CONCENTRATION WATER PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

GC Column: CLPEST2 ID: 0.53(MM) Init. Calib. Date(s): 09/30/2005 09/30/2005

EPA Sample No.(PIBLK##): PIBLKJJ Date Analyzed : 10/01/2005

Lab Sample ID (PIBLK) : PIBLKJJ Time Analyzed : 2013

EPA Sample No.(PEM##) : PEMJJ Date Analyzed : 10/01/2005

Lab Sample ID (PEM) : PEMJJ Time Analyzed : 2034

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (NG)	NOM AMOUNT (NG)	%D
alpha-BHC	4.55	4.50	4.60	0.010	0.010	-2.0
beta-BHC	5.57	5.52	5.62	0.011	0.010	10.0
gamma-BHC (Lindane)	5.32	5.27	5.37	0.010	0.010	0.0
Endrin	10.34	10.27	10.41	0.052	0.050	4.0
4,4'-DDT	11.55	11.48	11.62	0.080	0.100	-20.0
Methoxychlor	13.23	13.15	13.29	0.207	0.250	-17.2

4,4'-DDT % Breakdown (1): 2.27 Endrin % Breakdown (1): 2.58

Combined % Breakdown (1): 4.86

7LCG

LOW CONCENTRATION WATER PESTICIDE CALIBRATION VERIFICATION SUMMARY

L Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

GC Column: CLPEST ID: 0.53(MM) Init. Calib. Date(s): 10/05/2005 10/05/2005

EPA Sample No.(PIBLK##): _____ Date Analyzed : _____

Lab Sample ID (PIBLK) : _____ Time Analyzed : _____

EPA Sample No.(PEM##) : PEM94 Date Analyzed : 10/05/2005

Lab Sample ID (PEM) : PEM94 Time Analyzed : 1623

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (NG)	NOM AMOUNT (NG)	%D
alpha-BHC	4.40	4.34	4.44	0.009	0.010	-6.0
beta-BHC	5.35	5.30	5.40	0.010	0.010	0.0
gamma-BHC (Lindane)	5.10	5.05	5.15	0.010	0.010	0.0
Endrin	10.43	10.36	10.50	0.055	0.050	10.0
4,4'-DDT	11.60	11.53	11.67	0.093	0.100	-7.0
Methoxychlor	13.04	12.97	13.11	0.223	0.250	-10.8

4,4'-DDT % Breakdown (1): 0.87 Endrin % Breakdown (1): 2.04

Combined % Breakdown (1): 2.91

7LCG

LOW CONCENTRATION WATER PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

GC Column: CLPEST2 ID: 0.53(MM) Init. Calib. Date(s): 10/05/2005 10/05/2005

EPA Sample No.(PIBLK##): _____ Date Analyzed : _____

Lab Sample ID (PIBLK) : _____ Time Analyzed : _____

EPA Sample No.(PEM##) : PEM94 Date Analyzed : 10/05/2005

Lab Sample ID (PEM) : PEM94 Time Analyzed : 1623

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (NG)	NOM AMOUNT (NG)	%D
alpha-BHC	5.82	5.77	5.87	0.009	0.010	-11.0
beta-BHC	7.03	6.98	7.08	0.010	0.010	0.0
gamma-BHC (Lindane)	6.75	6.69	6.79	0.009	0.010	-6.0
Endrin	12.66	12.58	12.72	0.054	0.050	8.0
4,4'-DDT	14.03	13.96	14.10	0.103	0.100	3.0
Methoxychlor	15.96	15.89	16.04	0.229	0.250	-8.4

4,4'-DDT % Breakdown (1): 0.00 Endrin % Breakdown (1): 0.00

Combined % Breakdown (1): _____

7LCG

LOW CONCENTRATION WATER PESTICIDE CALIBRATION VERIFICATION SUMMARY

L Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

GC Column: CLPEST ID: 0.53(MM) Init. Calib. Date(s): 10/05/2005 10/05/2005

EPA Sample No.(PIBLK##): PIBLK94 Date Analyzed : 10/05/2005

Lab Sample ID (PIBLK) : PIBLK94 Time Analyzed : 2220

EPA Sample No.(PEM##) : PEM95 Date Analyzed : 10/05/2005

Lab Sample ID (PEM) : PEM95 Time Analyzed : 2245

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (NG)	NOM AMOUNT (NG)	%D
alpha-BHC	4.39	4.34	4.44	0.010	0.010	-2.0
beta-BHC	5.35	5.30	5.40	0.011	0.010	10.0
gamma-BHC (Lindane)	5.10	5.05	5.15	0.011	0.010	10.0
Endrin	10.43	10.36	10.50	0.055	0.050	10.0
4,4'-DDT	11.60	11.53	11.67	0.096	0.100	-4.0
Methoxychlor	13.04	12.97	13.11	0.225	0.250	-10.0

4,4'-DDT % Breakdown (1): 0.52 Endrin % Breakdown (1): 1.80

Combined % Breakdown (1): 2.32

7LCG

LOW CONCENTRATION WATER PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

GC Column: CLPEST2 ID: 0.53(MM) Init. Calib. Date(s): 10/05/2005 10/05/2005

EPA Sample No.(PIBLK##): PIBLK95 Date Analyzed : 10/05/2005

Lab Sample ID (PIBLK) : PIBLK95 Time Analyzed : 2220

EPA Sample No.(PEM##) : PEM95 Date Analyzed : 10/05/2005

Lab Sample ID (PEM) : PEM95 Time Analyzed : 2245

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (NG)	NOM AMOUNT (NG)	%D
alpha-BHC	5.82	5.77	5.87	0.009	0.010	-9.0
beta-BHC	7.04	6.98	7.08	0.010	0.010	0.0
gamma-BHC (Lindane)	6.75	6.69	6.79	0.010	0.010	-4.0
Endrin	12.65	12.58	12.72	0.055	0.050	10.0
4,4'-DDT	14.03	13.96	14.10	0.106	0.100	6.0
Methoxychlor	15.97	15.89	16.04	0.228	0.250	-8.8

4,4'-DDT % Breakdown (1): 0.00 Endrin % Breakdown (1): 0.00

Combined % Breakdown (1): _____

7LCG

LOW CONCENTRATION WATER PESTICIDE CALIBRATION VERIFICATION SUMMARY

Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

GC Column: CLPEST ID: 0.53(MM) Init. Calib. Date(s): 10/05/2005 10/05/2005

EPA Sample No.(PIBLK##): PIBLKME Date Analyzed : 10/06/2005

Lab Sample ID (PIBLK) : PIBLKME Time Analyzed : 1404

EPA Sample No.(PEM##) : PEMMF Date Analyzed : 10/06/2005

Lab Sample ID (PEM) : PEMMF Time Analyzed : 1430

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (NG)	NOM AMOUNT (NG)	%D
alpha-BHC	4.40	4.34	4.44	0.009	0.010	-12.0
beta-BHC	5.36	5.30	5.40	0.010	0.010	0.0
gamma-BHC (Lindane)	5.11	5.05	5.15	0.010	0.010	0.0
Endrin	10.44	10.36	10.50	0.052	0.050	4.0
4,4'-DDT	11.62	11.53	11.67	0.080	0.100	-20.0
Methoxychlor	13.05	12.97	13.11	0.190	0.250	-24.0

4'-DDT % Breakdown (1): 3.43 Endrin % Breakdown (1): 0.87

Combined % Breakdown (1): 4.29

7LCG

LOW CONCENTRATION WATER PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

GC Column: CLPEST2 ID: 0.53(MM) Init. Calib. Date(s): 10/05/2005 10/05/2005

EPA Sample No.(PIBLK##): PIBLKMF Date Analyzed : 10/06/2005

Lab Sample ID (PIBLK) : PIBLKMF Time Analyzed : 1404

EPA Sample No.(PEM##) : PEMMF Date Analyzed : 10/06/2005

Lab Sample ID (PEM) : PEMMF Time Analyzed : 1430

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (NG)	NOM AMOUNT (NG)	%D
alpha-BHC	5.83	5.77	5.87	0.009	0.010	-12.0
beta-BHC	7.04	6.98	7.08	0.010	0.010	-2.0
gamma-BHC (Lindane)	6.75	6.69	6.79	0.009	0.010	-7.0
Endrin	12.66	12.58	12.72	0.051	0.050	2.0
4,4'-DDT	14.04	13.96	14.10	0.090	0.100	-10.0
Methoxychlor	15.98	15.89	16.04	0.198	0.250	-20.8

4,4'-DDT % Breakdown (1): 2.78 Endrin % Breakdown (1): 2.68

Combined % Breakdown (1): 5.46

h. Calibration Verification Summary (Form VII LCP-2)

For all mid-point concentrations of Individual Standard Mixtures A and B and instrument blanks used for calibration verification, on all GC columns and instruments, in chronological order by GC column and instrument.

7LCH

LOW CONCENTRATION WATER PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

GC Column: CLPEST ID: 0.53(MM) Init. Calib. Date(s): 09/30/2005 09/30/2005

EPA Sample No.(PIBLK##): PIBLKJG Date Analyzed : 10/01/2005

Lab Sample ID (PIBLK) : PIBLKJG Time Analyzed : 1447

EPA Sample No.(INDAM##) : INDAMJH Date Analyzed : 10/01/2005

Lab Sample ID (INDA) : INDAMJH Time Analyzed : 1509

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (NG)	NOM AMOUNT (NG)	%D
alpha-BHC	3.55	3.50	3.60	0.019	0.020	-5.0
gamma-BHC (Lindane)	4.14	4.09	4.19	0.019	0.020	-5.0
Heptachlor	5.05	5.00	5.10	0.020	0.020	0.0
Endosulfan I	7.72	7.65	7.79	0.021	0.020	5.0
Dieldrin	8.25	8.18	8.32	0.040	0.040	0.0
Endrin	8.71	8.64	8.78	0.041	0.040	2.5
4,4'-DDD	9.13	9.07	9.21	0.040	0.040	0.0
4,4'-DDT	9.72	9.66	9.80	0.040	0.040	0.0
Methoxychlor	10.97	10.90	11.04	0.201	0.200	0.5
Tetrachloro-m-xylene	2.60	2.55	2.65	0.020	0.020	0.0
Decachlorobiphenyl	14.09	13.99	14.19	0.040	0.040	0.0

EPA Sample No.(INDBM##) : INDBMJH Date Analyzed : 10/01/2005

Lab Sample ID (INDB) : INDBMJH Time Analyzed : 1531

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (NG)	NOM AMOUNT (NG)	%D
beta-BHC	4.37	4.32	4.42	0.023	0.020	15.0
delta-BHC	4.68	4.63	4.73	0.020	0.020	0.0
Aldrin	5.62	5.57	5.67	0.021	0.020	5.0
Heptachlor epoxide	6.94	6.87	7.01	0.021	0.020	5.0
4,4'-DDE	7.85	7.78	7.92	0.044	0.040	10.0
Endosulfan II	9.21	9.14	9.28	0.043	0.040	7.5
Endosulfan sulfate	11.10	11.03	11.17	0.039	0.040	-2.5
Endrin ketone	11.63	11.56	11.70	0.042	0.040	5.0
Endrin aldehyde	10.16	10.09	10.23	0.043	0.040	7.5
alpha-Chlordane	7.49	7.42	7.56	0.022	0.020	10.0
gamma-Chlordane	7.20	7.13	7.27	0.021	0.020	5.0
Tetrachloro-m-xylene	2.61	2.55	2.65	0.021	0.020	5.0
Decachlorobiphenyl	14.09	13.99	14.19	0.040	0.040	0.0

7LCH

LOW CONCENTRATION WATER PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

GC Column: CLPEST2 ID: 0.53(MM) Init. Calib. Date(s): 09/30/2005 09/30/2005

EPA Sample No.(PIBLK##): PIBLKJH Date Analyzed : 10/01/2005

Lab Sample ID (PIBLK) : PIBLKJH Time Analyzed : 1447

EPA Sample No.(INDAM##) : INDAMJH Date Analyzed : 10/01/2005

Lab Sample ID (INDA) : INDAMJH Time Analyzed : 1509

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (NG)	NOM AMOUNT (NG)	%D
alpha-BHC	4.54	4.50	4.60	0.020	0.020	0.0
gamma-BHC (Lindane)	5.32	5.27	5.37	0.020	0.020	0.0
Heptachlor	6.25	6.20	6.30	0.020	0.020	0.0
Endosulfan I	9.08	9.01	9.15	0.020	0.020	0.0
Dieldrin	9.70	9.63	9.77	0.040	0.040	0.0
Endrin	10.34	10.27	10.41	0.040	0.040	0.0
4,4'-DDD	10.87	10.80	10.94	0.040	0.040	0.0
4,4'-DDT	11.55	11.48	11.62	0.038	0.040	-5.0
Methoxychlor	13.22	13.15	13.29	0.190	0.200	-5.0
Tetrachloro-m-xylene	3.27	3.22	3.32	0.021	0.020	5.0
Decachlorobiphenyl	16.33	16.23	16.43	0.039	0.040	-2.5

EPA Sample No.(INDBM##) : INDBMJH Date Analyzed : 10/01/2005

Lab Sample ID (INDB) : INDBMJH Time Analyzed : 1531

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (NG)	NOM AMOUNT (NG)	%D
beta-BHC	5.57	5.52	5.62	0.022	0.020	10.0
delta-BHC	6.19	6.15	6.25	0.021	0.020	5.0
Aldrin	6.92	6.87	6.97	0.021	0.020	5.0
Heptachlor epoxide	8.25	8.19	8.33	0.022	0.020	10.0
4,4'-DDE	9.58	9.51	9.65	0.042	0.040	5.0
Endosulfan II	10.84	10.77	10.91	0.042	0.040	5.0
Endosulfan sulfate	12.26	12.19	12.33	0.039	0.040	-2.5
Endrin ketone	13.35	13.28	13.42	0.042	0.040	5.0
Endrin aldehyde	11.64	11.57	11.71	0.040	0.040	0.0
alpha-Chlordane	9.02	8.96	9.10	0.021	0.020	5.0
gamma-Chlordane	8.69	8.62	8.76	0.021	0.020	5.0
Tetrachloro-m-xylene	3.27	3.22	3.32	0.022	0.020	10.0
Decachlorobiphenyl	16.33	16.23	16.43	0.038	0.040	-5.0

7LCH

LOW CONCENTRATION WATER PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

GC Column: CLPEST ID: 0.53(MM) Init. Calib. Date(s): 09/30/2005 09/30/2005

EPA Sample No.(PIBLK##): PIBLKJK Date Analyzed : 10/02/2005

Lab Sample ID (PIBLK) : PIBLKJK Time Analyzed : 0138

EPA Sample No.(INDAM##) : INDAMJL Date Analyzed : 10/02/2005

Lab Sample ID (INDA) : INDAMJL Time Analyzed : 0200

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (NG)	NOM AMOUNT (NG)	%D
alpha-BHC	3.55	3.50	3.60	0.019	0.020	-5.0
gamma-BHC (Lindane)	4.14	4.09	4.19	0.019	0.020	-5.0
Heptachlor	5.04	5.00	5.10	0.020	0.020	0.0
Endosulfan I	7.72	7.65	7.79	0.020	0.020	0.0
Dieldrin	8.25	8.18	8.32	0.039	0.040	-2.5
Endrin	8.70	8.64	8.78	0.039	0.040	-2.5
4,4'-DDD	9.13	9.07	9.21	0.039	0.040	-2.5
4,4'-DDT	9.72	9.66	9.80	0.039	0.040	-2.5
Methoxychlor	10.97	10.90	11.04	0.195	0.200	-2.5
Tetrachloro-m-xylene	2.61	2.55	2.65	0.021	0.020	5.0
Decachlorobiphenyl	14.09	13.99	14.19	0.039	0.040	-2.5

EPA Sample No.(INDBM##) : INDBMJL Date Analyzed : 10/02/2005

Lab Sample ID (INDB) : INDBMJL Time Analyzed : 0222

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (NG)	NOM AMOUNT (NG)	%D
beta-BHC	4.36	4.32	4.42	0.022	0.020	10.0
delta-BHC	4.67	4.63	4.73	0.020	0.020	0.0
Aldrin	5.61	5.57	5.67	0.020	0.020	0.0
Heptachlor epoxide	6.93	6.87	7.01	0.020	0.020	0.0
4,4'-DDE	7.84	7.78	7.92	0.043	0.040	7.5
Endosulfan II	9.20	9.14	9.28	0.042	0.040	5.0
Endosulfan sulfate	11.10	11.03	11.17	0.040	0.040	0.0
Endrin ketone	11.62	11.56	11.70	0.042	0.040	5.0
Endrin aldehyde	10.15	10.09	10.23	0.042	0.040	5.0
alpha-Chlordane	7.49	7.42	7.56	0.021	0.020	5.0
gamma-Chlordane	7.20	7.13	7.27	0.020	0.020	0.0
Tetrachloro-m-xylene	2.60	2.55	2.65	0.020	0.020	0.0
Decachlorobiphenyl	14.09	13.99	14.19	0.039	0.040	-2.5

7LCH

LOW CONCENTRATION WATER PESTICIDE CALIBRATION VERIFICATION SUMMARY

I Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

GC Column: CLPEST2 ID: 0.53(MM) Init. Calib. Date(s): 09/30/2005 09/30/2005

EPA Sample No.(PIBLK##): PIBLKJL Date Analyzed : 10/02/2005

Lab Sample ID (PIBLK) : PIBLKJL Time Analyzed : 0138

EPA Sample No.(INDAM##) : INDAMJL Date Analyzed : 10/02/2005

Lab Sample ID (INDA) : INDAMJL Time Analyzed : 0200

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (NG)	NOM AMOUNT (NG)	%D
alpha-BHC	4.54	4.50	4.60	0.019	0.020	-5.0
gamma-BHC (Lindane)	5.32	5.27	5.37	0.019	0.020	-5.0
Heptachlor	6.24	6.20	6.30	0.019	0.020	-5.0
Endosulfan I	9.07	9.01	9.15	0.019	0.020	-5.0
Dieldrin	9.70	9.63	9.77	0.038	0.040	-5.0
Endrin	10.34	10.27	10.41	0.038	0.040	-5.0
4,4'-DDD	10.87	10.80	10.94	0.038	0.040	-5.0
4,4'-DDT	11.54	11.48	11.62	0.037	0.040	-7.5
Methoxychlor	13.22	13.15	13.29	0.181	0.200	-9.5
Tetrachloro-m-xylene	3.27	3.22	3.32	0.021	0.020	5.0
Decachlorobiphenyl	16.33	16.23	16.43	0.037	0.040	-7.5

EPA Sample No.(INDBM##) : INDBMJL Date Analyzed : 10/02/2005

Lab Sample ID (INDB) : INDBMJL Time Analyzed : 0222

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (NG)	NOM AMOUNT (NG)	%D
beta-BHC	5.57	5.52	5.62	0.021	0.020	5.0
delta-BHC	6.19	6.15	6.25	0.020	0.020	0.0
Aldrin	6.92	6.87	6.97	0.019	0.020	-5.0
Heptachlor epoxide	8.25	8.19	8.33	0.020	0.020	0.0
4,4'-DDE	9.58	9.51	9.65	0.040	0.040	0.0
Endosulfan II	10.84	10.77	10.91	0.041	0.040	2.5
Endosulfan sulfate	12.25	12.19	12.33	0.039	0.040	-2.5
Endrin ketone	13.35	13.28	13.42	0.041	0.040	2.5
Endrin aldehyde	11.63	11.57	11.71	0.041	0.040	2.5
alpha-Chlordane	9.02	8.96	9.10	0.020	0.020	0.0
gamma-Chlordane	8.68	8.62	8.76	0.020	0.020	0.0
Tetrachloro-m-xylene	3.27	3.22	3.32	0.020	0.020	0.0
Decachlorobiphenyl	16.33	16.23	16.43	0.038	0.040	-5.0

7LCH

LOW CONCENTRATION WATER PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

GC Column: CLPEST ID: 0.53(MM) Init. Calib. Date(s): 10/05/2005 10/05/2005

EPA Sample No.(PIBLK##): PIBLKMG Date Analyzed : 10/06/2005

Lab Sample ID (PIBLK) : PIBLKMG Time Analyzed : 2220

EPA Sample No.(INDAM##) : INDAMMH Date Analyzed : 10/06/2005

Lab Sample ID (INDA) : INDAMMH Time Analyzed : 2245

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (NG)	NOM AMOUNT (NG)	%D
alpha-BHC	4.41	4.34	4.44	0.019	0.020	-5.0
gamma-BHC (Lindane)	5.11	5.05	5.15	0.019	0.020	-5.0
Heptachlor	6.18	6.11	6.21	0.019	0.020	-5.0
Endosulfan I	9.30	9.21	9.35	0.019	0.020	-5.0
Dieldrin	9.91	9.82	9.96	0.038	0.040	-5.0
Endrin	10.45	10.36	10.50	0.041	0.040	2.5
4,4'-DDD	10.93	10.84	10.98	0.039	0.040	-2.5
4,4'-DDT	11.62	11.53	11.67	0.036	0.040	-10.0
Methoxychlor	13.06	12.97	13.11	0.177	0.200	-11.5
Tetrachloro-m-xylene	3.27	3.21	3.31	0.019	0.020	-5.0
Decachlorobiphenyl	16.69	16.57	16.77	0.036	0.040	-10.0

EPA Sample No.(INDBM##) : INDBMMH Date Analyzed : 10/06/2005

Lab Sample ID (INDB) : INDBMMH Time Analyzed : 2311

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (NG)	NOM AMOUNT (NG)	%D
beta-BHC	5.37	5.30	5.40	0.019	0.020	-5.0
delta-BHC	5.74	5.66	5.76	0.019	0.020	-5.0
Aldrin	6.85	6.78	6.88	0.019	0.020	-5.0
Heptachlor epoxide	8.38	8.29	8.43	0.019	0.020	-5.0
4,4'-DDE	9.44	9.34	9.48	0.038	0.040	-5.0
Endosulfan II	11.02	10.93	11.07	0.038	0.040	-5.0
Endosulfan sulfate	13.21	13.12	13.26	0.038	0.040	-5.0
Endrin ketone	13.83	13.74	13.88	0.037	0.040	-7.5
Endrin aldehyde	12.12	12.03	12.17	0.038	0.040	-5.0
alpha-Chlordane	9.03	8.93	9.07	0.019	0.020	-5.0
gamma-Chlordane	8.69	8.60	8.74	0.019	0.020	-5.0
Tetrachloro-m-xylene	3.28	3.21	3.31	0.019	0.020	-5.0
Decachlorobiphenyl	16.69	16.57	16.77	0.035	0.040	-12.5

7LCH

LOW CONCENTRATION WATER PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

GC Column: CLPEST2 ID: 0.53(MM) Init. Calib. Date(s): 10/05/2005 10/05/2005

EPA Sample No.(PIBLK##): PIBLKMH Date Analyzed : 10/06/2005

Lab Sample ID (PIBLK) : PIBLKMH Time Analyzed : 2220

EPA Sample No.(INDAM##) : INDAMMH Date Analyzed : 10/06/2005

Lab Sample ID (INDA) : INDAMMH Time Analyzed : 2245

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (NG)	NOM AMOUNT (NG)	%D
alpha-BHC	5.84	5.77	5.87	0.020	0.020	0.0
gamma-BHC (Lindane)	6.76	6.69	6.79	0.020	0.020	0.0
Heptachlor	7.87	7.80	7.90	0.019	0.020	-5.0
Endosulfan I	11.20	11.11	11.25	0.019	0.020	-5.0
Dieldrin	11.92	11.83	11.97	0.038	0.040	-5.0
Endrin	12.67	12.58	12.72	0.039	0.040	-2.5
4,4'-DDD	13.26	13.17	13.31	0.039	0.040	-2.5
4,4'-DDT	14.05	13.96	14.10	0.036	0.040	-10.0
Methoxychlor	15.98	15.89	16.04	0.178	0.200	-11.0
Tetrachloro-m-xylene	4.29	4.23	4.33	0.021	0.020	5.0
Decachlorobiphenyl	19.62	19.51	19.71	0.034	0.040	-15.0

EPA Sample No.(INDBM##) : INDBMMH Date Analyzed : 10/06/2005

Lab Sample ID (INDB) : INDBMMH Time Analyzed : 2311

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (NG)	NOM AMOUNT (NG)	%D
beta-BHC	7.05	6.98	7.08	0.019	0.020	-5.0
delta-BHC	7.79	7.72	7.82	0.019	0.020	-5.0
Aldrin	8.66	8.59	8.69	0.019	0.020	-5.0
Heptachlor epoxide	10.22	10.14	10.28	0.019	0.020	-5.0
4,4'-DDE	11.75	11.66	11.80	0.039	0.040	-2.5
Endosulfan II	13.26	13.17	13.31	0.038	0.040	-5.0
Endosulfan sulfate	14.89	14.81	14.95	0.038	0.040	-5.0
Endrin ketone	16.18	16.09	16.23	0.037	0.040	-7.5
Endrin aldehyde	14.18	14.08	14.22	0.039	0.040	-2.5
alpha-Chlordane	11.12	11.03	11.17	0.020	0.020	0.0
gamma-Chlordane	10.73	10.64	10.78	0.019	0.020	-5.0
Tetrachloro-m-xylene	4.29	4.23	4.33	0.019	0.020	-5.0
Decachlorobiphenyl	19.62	19.51	19.71	0.034	0.040	-15.0

i. Analytical Sequence (Form VIII LCP)

For all GC columns, all instruments, in chronological order by GC column and instrument.

8LCD
LOW CONCENTRATION WATER PESTICIDE ANALYTICAL SEQUENCE

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

GC Column: CLPEST ID: 0.53(MM) Init. Calib. Date(s): 09/30/2005 09/30/2005

Instrument ID: TRACEGC80
THE ANALYTICAL SEQUENCE OF SAMPLES, BLANKS AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 2.60 DCB: 14.09

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	RESC84	RESC84	09/30/2005	1748	2.61	14.09
02	PEM84	PEM84	09/30/2005	1810	2.61	14.09
03	AR166084	AR166084	09/30/2005	1832	2.62	14.09
04	AR122184	AR122184	09/30/2005	1854	2.61	14.09
05	AR123284	AR123284	09/30/2005	1915	2.61	14.09
06	AR124284	AR124284	09/30/2005	1937	2.61	14.09
07	AR124884	AR124884	09/30/2005	1959	2.62	14.09
08	AR125484	AR125484	09/30/2005	2020	2.60	14.09
09	TOXAPH84	TOXAPH84	09/30/2005	2042	2.62	14.09
10	INDAL84	INDAL84	09/30/2005	2104	2.60	14.09
11	INDBL84	INDBL84	09/30/2005	2125	2.61	14.09
12	INDAM84	INDAM84	09/30/2005	2147	2.60	14.09
13	INDBM84	INDBM84	09/30/2005	2209	2.62	14.09
14	INDAH84	INDAH84	09/30/2005	2231	2.60	14.10
15	INDBH84	INDBH84	09/30/2005	2252	2.61	14.09
16	PIBLK84	PIBLK84	09/30/2005	2314	2.61	14.09
17	PEM85	PEM85	09/30/2005	2336	2.60	14.09
18	PIBLKJG	PIBLKJG	10/01/2005	1447	2.61	14.09
19	INDAMJH	INDAMJH	10/01/2005	1509	2.60	14.09
20	INDBMJH	INDBMJH	10/01/2005	1531	2.61	14.09
21	PBLKMA	81127	10/01/2005	1552	2.62	14.09
22	PMALCS	81128	10/01/2005	1614	2.60	14.09
23	ACSGWPWB26MS	81129	10/01/2005	1636	2.61	14.09
24	ACSGWPWB26MS	81130	10/01/2005	1657	2.61	14.09
25	ACSGWPWB26	782903	10/01/2005	1719	2.61	14.09
26	ACSGWPWA26	782901	10/01/2005	1741	2.61	14.09
27	ACSGWPWDUP26	782902	10/01/2005	1803	2.61	14.09
28	PIBLKJI	PIBLKJI	10/01/2005	2013	2.60	14.09
29	PEMJJ	PEMJJ	10/01/2005	2034	2.61	14.09
30	ACSGWPWT26	782904	10/01/2005	2118	2.61	14.09
31	ACSGWPWC26	782905	10/01/2005	2140	2.61	14.09
32	ACSGWPWD26	782907	10/01/2005	2201	2.61	14.09

QC LIMITS
TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.10 MINUTES)

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

8LCD
LOW CONCENTRATION WATER PESTICIDE ANALYTICAL SEQUENCE

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

GC Column: CLPEST ID: 0.53(MM) Init. Calib. Date(s): 09/30/2005 09/30/2005

Instrument ID: TRACEGC80
THE ANALYTICAL SEQUENCE OF SAMPLES, BLANKS AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 2.60 DCB: 14.09

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	PIBLKJK	PIBLKJK	10/02/2005	0138	2.61	14.09
02	INDAMJL	INDAMJL	10/02/2005	0200	2.61	14.09
03	INDBMJL	INDBMJL	10/02/2005	0222	2.60	14.09
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						

QC LIMITS
TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.10 MINUTES)

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

8LCD

LOW CONCENTRATION WATER PESTICIDE ANALYTICAL SEQUENCE

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

GC Column: CLPEST2 ID: 0.53(MM) Init. Calib. Date(s): 09/30/2005 09/30/2005

Instrument ID: TRACEGC81

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

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 3.27 DCB: 16.33

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	RESC84	RESC84	09/30/2005	1748	3.27	16.33
02	PEM84	PEM84	09/30/2005	1810	3.28	16.33
03	AR166084	AR166084	09/30/2005	1832	3.28	16.33
04	AR122184	AR122184	09/30/2005	1854	3.28	16.33
05	AR123284	AR123284	09/30/2005	1915	3.27	16.33
06	AR124284	AR124284	09/30/2005	1937	3.28	16.34
07	AR124884	AR124884	09/30/2005	1959	3.28	16.33
08	AR125484	AR125484	09/30/2005	2020	3.27	16.33
09	TOXAPH84	TOXAPH84	09/30/2005	2042	3.28	16.33
10	INDAL84	INDAL84	09/30/2005	2104	3.27	16.33
11	INDBL84	INDBL84	09/30/2005	2125	3.27	16.33
12	INDAM84	INDAM84	09/30/2005	2147	3.27	16.33
13	INDBM84	INDBM84	09/30/2005	2209	3.28	16.33
14	INDAH84	INDAH84	09/30/2005	2231	3.27	16.34
15	INDBH84	INDBH84	09/30/2005	2252	3.27	16.33
16	PIBLK85	PIBLK85	09/30/2005	2314	3.27	16.33
17	PEM85	PEM85	09/30/2005	2336	3.27	16.33
18	PIBLKJH	PIBLKJH	10/01/2005	1447	3.27	16.34
19	INDAMJH	INDAMJH	10/01/2005	1509	3.27	16.33
20	INDBMJH	INDBMJH	10/01/2005	1531	3.27	16.33
21	PBLKMA	81127	10/01/2005	1552	3.28	16.34
22	PMALCS	81128	10/01/2005	1614	3.27	16.33
23	ACSGWPWB26MS	81129	10/01/2005	1636	3.27	16.33
24	ACSGWPWB26MS	81130	10/01/2005	1657	3.28	16.33
25	ACSGWPWB26	782903	10/01/2005	1719	3.27	16.33
26	ACSGWPWA26	782901	10/01/2005	1741	3.28	16.33
27	ACSGWPWDUP26	782902	10/01/2005	1803	3.27	16.33
28	PIBLKJJ	PIBLKJJ	10/01/2005	2013	3.27	16.33
29	PEMJJ	PEMJJ	10/01/2005	2034	3.27	16.33
30	ACSGWPWT26	782904	10/01/2005	2118	3.27	16.33
31	ACSGWPWC26	782905	10/01/2005	2140	3.27	16.33
32	ACSGWPWD26	782907	10/01/2005	2201	3.27	16.33

QC LIMITS

TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.10 MINUTES)

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

8LCD
LOW CONCENTRATION WATER PESTICIDE ANALYTICAL SEQUENCE

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

GC Column: CLPEST2 ID: 0.53(MM) Init. Calib. Date(s): 09/30/2005 09/30/2005

Instrument ID: TRACEGC81
THE ANALYTICAL SEQUENCE OF SAMPLES, BLANKS AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 3.27 DCB: 16.33

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	PIBLKJL	PIBLKJL	10/02/2005	0138	3.27	16.33
02	INDAMJL	INDAMJL	10/02/2005	0200	3.27	16.33
03	INDBMJL	INDBMJL	10/02/2005	0222	3.27	16.33
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						

QC LIMITS
TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.10 MINUTES)

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

8LCD
LOW CONCENTRATION WATER PESTICIDE ANALYTICAL SEQUENCE

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

GC Column: CLPEST ID: 0.53(MM) Init. Calib. Date(s): 10/05/2005 10/05/2005

Instrument ID: TRACEGC82
THE ANALYTICAL SEQUENCE OF SAMPLES, BLANKS AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 3.26 DCB: 16.67

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	RESC94	RESC94	10/05/2005	1557	3.26	16.67
02	PEM94	PEM94	10/05/2005	1623	3.26	16.67
03	AR166094	AR166094	10/05/2005	1648	3.26	16.67
04	AR122194	AR122194	10/05/2005	1714	3.27	16.67
05	AR123294	AR123294	10/05/2005	1739	3.26	16.68
06	AR124294	AR124294	10/05/2005	1805	3.26	16.67
07	AR124894	AR124894	10/05/2005	1830	3.26	16.67
08	AR125494	AR125494	10/05/2005	1856	3.26	16.67
09	TOXAPH94	TOXAPH94	10/05/2005	1921	3.26	16.66
10	INDAL94	INDAL94	10/05/2005	1947	3.26	16.67
11	INDBL94	INDBL94	10/05/2005	2012	3.26	16.67
12	INDAM94	INDAM94	10/05/2005	2038	3.26	16.67
13	INDBM94	INDBM94	10/05/2005	2103	3.26	16.67
14	INDAH94	INDAH94	10/05/2005	2128	3.26	16.67
15	INDBH94	INDBH94	10/05/2005	2154	3.26	16.67
16	PIBLK94	PIBLK94	10/05/2005	2220	3.26	16.66
17	PEM95	PEM95	10/05/2005	2245	3.26	16.67
18	PIBLKME	PIBLKME	10/06/2005	1404	3.27	16.68
19	PEMMF	PEMMF	10/06/2005	1430	3.27	16.69
20	PBLKAM	81127R	10/06/2005	1557	3.29	16.68
21	PLCSAM	81128R	10/06/2005	1623	3.27	16.69
22	ACSGWPWB26RE	81129	10/06/2005	1649	3.27	16.69
23	ACSGWPWB26RE	81130	10/06/2005	1714	3.27	16.69
24	ACSGWPWA26RE	782901R	10/06/2005	1805	3.27	16.69
25	ACSGWPWDUP26	782902R	10/06/2005	1831	3.27	16.69
26	ACSGWPWB26RE	782903R	10/06/2005	1856	3.27	16.70
27	ACSGWPWT26RE	782904R	10/06/2005	1922	3.27	16.69
28	ACSGWPWC26RE	782905R	10/06/2005	1947	3.28	16.69
29	ACSGWPWD26RE	782907R	10/06/2005	2013	3.27	16.69
30	PIBLKMG	PIBLKMG	10/06/2005	2220	3.27	16.69
31	INDAMMH	INDAMMH	10/06/2005	2245	3.27	16.69
32	INDBMMH	INDBMMH	10/06/2005	2311	3.28	16.69

QC LIMITS
TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.10 MINUTES)

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

8LCD
LOW CONCENTRATION WATER PESTICIDE ANALYTICAL SEQUENCE

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

GC Column: CLPEST2 ID: 0.53(MM) Init. Calib. Date(s): 10/05/2005 10/05/2005

Instrument ID: TRACEGC83
THE ANALYTICAL SEQUENCE OF SAMPLES, BLANKS AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 4.28 DCB: 19.61

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	RESC94	RESC94	10/05/2005	1557	4.28	19.60
02	PEM94	PEM94	10/05/2005	1623	4.28	19.61
03	AR166094	AR166094	10/05/2005	1648	4.28	19.61
04	AR122194	AR122194	10/05/2005	1714	4.28	19.61
05	AR123294	AR123294	10/05/2005	1739	4.28	19.61
06	AR124294	AR124294	10/05/2005	1805	4.28	19.61
07	AR124894	AR124894	10/05/2005	1830	4.28	19.61
08	AR125494	AR125494	10/05/2005	1856	4.28	19.61
09	TOXAPH94	TOXAPH94	10/05/2005	1921	4.28	19.60
10	INDAL94	INDAL94	10/05/2005	1947	4.28	19.61
11	INDBL94	INDBL94	10/05/2005	2012	4.28	19.60
12	INDAM94	INDAM94	10/05/2005	2038	4.28	19.61
13	INDBM94	INDBM94	10/05/2005	2103	4.28	19.61
14	INDAH94	INDAH94	10/05/2005	2128	4.28	19.61
15	INDBH94	INDBH94	10/05/2005	2154	4.28	19.60
16	PIBLK95	PIBLK95	10/05/2005	2220	4.28	19.60
17	PEM95	PEM95	10/05/2005	2245	4.28	19.61
18	PIBLKMF	PIBLKMF	10/06/2005	1404	4.29	19.62
19	PEMMF	PEMMF	10/06/2005	1430	4.29	19.62
20	PBLKAM	81127R	10/06/2005	1557	4.29	19.62
21	PLCSAM	81128R	10/06/2005	1623	4.29	19.62
22	ACSGWPWB26RE	81129	10/06/2005	1649	4.29	19.62
23	ACSGWPWB26RE	81130	10/06/2005	1714	4.29	19.62
24	ACSGWPWA26RE	782901R	10/06/2005	1805	4.29	19.62
25	ACSGWPWDUP26	782902R	10/06/2005	1831	4.29	19.62
26	ACSGWPWB26RE	782903R	10/06/2005	1856	4.29	19.62
27	ACSGWPWT26RE	782904R	10/06/2005	1922	4.29	19.62
28	ACSGWPWC26RE	782905R	10/06/2005	1947	4.29	19.62
29	ACSGWPWD26RE	782907R	10/06/2005	2013	4.29	19.62
30	PIBLKMH	PIBLKMH	10/06/2005	2220	4.29	19.62
31	INDAMMH	INDAMMH	10/06/2005	2245	4.29	19.62
32	INDBMMH	INDBMMH	10/06/2005	2311	4.29	19.62

QC LIMITS
TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.10 MINUTES)

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

j. Florisil Cartridge Check (Form IX LCP)

For all lots of cartridges used to process samples in the SDG.

9LCA

LOW CONCENTRATION WATERPESTICIDE FLORISIL CARTRIDGE CHECK

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Florisil Cartridge Lot Number: FLO6340 Date of Analysis: 08/07/2005

GC Column (1): CLPEST ID: 0.53(mm) GC Column (2): CLPEST2 ID: 0.53(mm)

COMPOUND	SPIKE ADDED (NG)	SPIKE RECOVERED (NG)	% REC #	QC LIMITS
alpha-BHC	0.010	0.011	110	80-120
gamma-BHC (Lindane)	0.010	0.0092	92	80-120
Heptachlor	0.010	0.01	100	80-120
Endosulfan I	0.010	0.011	110	80-120
Dieldrin	0.020	0.023	115	80-120
Endrin	0.020	0.021	105	80-120
4,4'-DDD	0.020	0.022	110	80-120
4,4'-DDT	0.020	0.022	110	80-120
Methoxychlor	0.10	0.11	110	80-120
Tetrachloro-m-xylene	0.010	0.011	110	80-120
Decachlorobiphenyl	0.020	0.022	110	80-120
2,4,5-Trichlorophenol	0.50	0	0	<5

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

THIS CARTRIDGE LOT APPLIES TO THE FOLLOWING SAMPLES LABORATORY CONTROL SAMPLES, AND BLANKS

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	PBLKMA	81127	10/01/2005	10/01/2005
02	PMALCS	81128	10/01/2005	10/01/2005
03	ACSGWPWB26MS	81129	10/01/2005	10/01/2005
04	ACSGWPWB26MSD	81130	10/01/2005	10/01/2005
05	ACSGWPWB26	782903	10/01/2005	10/01/2005
06	ACSGWPWA26	782901	10/01/2005	10/01/2005
07	ACSGWPWDUP26	782902	10/01/2005	10/01/2005
08	ACSGWPWT26	782904	10/01/2005	10/01/2005
09	ACSGWPWC26	782905	10/01/2005	10/01/2005
10	ACSGWPWD26	782907	10/01/2005	10/01/2005
11	PBLKAM	81127R	10/06/2005	10/06/2005
12	PLCSAM	81128R	10/06/2005	10/06/2005
13	ACSGWPWB26REMS	81129	10/06/2005	10/06/2005
14	ACSGWPWB26REMSD	81130	10/06/2005	10/06/2005
15	ACSGWPWA26RE	782901R	10/06/2005	10/06/2005
16	ACSGWPWDUP26RE	782902R	10/06/2005	10/06/2005
17	ACSGWPWB26RE	782903R	10/06/2005	10/06/2005
18	ACSGWPWT26RE	782904R	10/06/2005	10/06/2005
19	ACSGWPWC26RE	782905R	10/06/2005	10/06/2005
20	ACSGWPWD26RE	782907R	10/06/2005	10/06/2005

k. Pesticide Identification Summary for Single Component Analytes
(Form X LCP-1)

For all samples with positively identified single component analytes, in order by increasing EPA sample number.

10LCA
LOW CONCENTRATION WATER PESTICIDE IDENTIFICATION
SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

ACSGWPWB26MS

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 81129 Date(s) Analyzed: 10/01/05 10/01/05

Instrument ID (1): TRACEGC80 Instrument ID (2): TRACEGC81

GC Column(1): CLPEST ID: 0.53(MM) GC Column(2): CLPEST2 ID: 0.53(MM)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
gamma-BHC (Lindane)	1	4.15	4.09	4.19	0.073	
	2	5.32	5.27	5.37	0.070	4.3
Heptachlor	1	5.09	5.00	5.10	4.3	
	2	6.25	6.20	6.30	0.069	999.9
Aldrin	1	5.62	5.57	5.67	0.072	
	2	6.93	6.87	6.97	0.070	2.9
Dieldrin	1	8.26	8.18	8.32	0.16	
	2	9.70	9.63	9.77	0.15	6.7
Endrin	1	8.71	8.64	8.78	0.17	
	2	10.34	10.27	10.41	0.16	6.3
4,4'-DDT	1	9.73	9.66	9.80	0.15	
	2	11.55	11.48	11.62	0.13	15.4
	1					
	2					
	1					
	2					

10LCA
LOW CONCENTRATION WATER PESTICIDE IDENTIFICATION
SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

ACSGWPWB26MSD

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 81130 Date(s) Analyzed: 10/01/05 10/01/05

Instrument ID (1): TRACEGC80 Instrument ID (2): TRACEGC81

GC Column(1): CLPEST ID: 0.53(MM) GC Column(2): CLPEST2 ID: 0.53(MM)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
gamma-BHC (Lindane)	1	4.15	4.09	4.19	0.069	
	2	5.33	5.27	5.37	0.069	0.0
Heptachlor	1	5.09	5.00	5.10	3.8	
	2	6.25	6.20	6.30	0.070	999.9
Aldrin	1	5.63	5.57	5.67	0.070	
	2	6.93	6.87	6.97	0.068	2.9
Dieldrin	1	8.26	8.18	8.32	0.15	
	2	9.70	9.63	9.77	0.14	7.1
Endrin	1	8.71	8.64	8.78	0.16	
	2	10.34	10.27	10.41	0.15	6.7
4,4'-DDT	1	9.73	9.66	9.80	0.14	
	2	11.55	11.48	11.62	0.13	7.7
	1					
	2					
	1					
	2					

10LCA
LOW CONCENTRATION WATER PESTICIDE IDENTIFICATION
SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

ACSGWPWB26REMS

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 81129 Date(s) Analyzed: 10/06/05 10/06/05

Instrument ID (1): TRACEGC82 Instrument ID (2): TRACEGC83

GC Column(1): CLPEST ID: 0.53(MM) GC Column(2): CLPEST2 ID: 0.53(MM)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
gamma-BHC (Lindane)	1	5.11	5.05	5.15	0.092	
	2	6.76	6.69	6.79	0.094	2.2
Aldrin	1	6.85	6.78	6.88	0.080	
	2	8.66	8.59	8.69	0.082	2.5
Dieldrin	1	9.91	9.82	9.96	0.16	
	2	11.92	11.83	11.97	0.22	37.5
Endrin	1	10.45	10.36	10.50	0.18	
	2	12.67	12.58	12.72	0.21	16.7
4,4'-DDT	1	11.62	11.53	11.67	0.14	
	2	14.05	13.96	14.10	0.18	28.6
	1					
	2					
	1					
	2					
	1					
	2					

FORM X LCP-1 OLC03

10LCA
LOW CONCENTRATION WATER PESTICIDE IDENTIFICATION
SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

ACSGWPWB26REMSD

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 81130 Date(s) Analyzed: 10/06/05 10/06/05

Instrument ID (1): TRACEGC82 Instrument ID (2): TRACEGC83

GC Column(1): CLPEST ID: 0.53(MM) GC Column(2): CLPEST2 ID: 0.53(MM)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
gamma-BHC (Lindane)	1	5.12	5.05	5.15	0.082	
	2	6.76	6.69	6.79	0.094	14.6
Aldrin	1	6.85	6.78	6.88	0.069	
	2	8.66	8.59	8.69	0.085	23.2
Dieldrin	1	9.92	9.82	9.96	0.16	
	2	11.92	11.83	11.97	0.20	25.0
Endrin	1	10.45	10.36	10.50	0.19	
	2	12.67	12.58	12.72	0.20	5.3
4,4'-DDT	1	11.62	11.53	11.67	0.15	
	2	14.05	13.96	14.10	0.17	13.3
	1					
	2					
	1					
	2					
	1					
	2					

10LCA
LOW CONCENTRATION WATER PESTICIDE IDENTIFICATION
SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

PLCSAM

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 81128R Date(s) Analyzed: 10/06/05 10/06/05

Instrument ID (1): TRACEGC82 Instrument ID (2): TRACEGC83

GC Column(1): CLPEST ID: 0.53(MM) GC Column(2): CLPEST2 ID: 0.53(MM)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
gamma-BHC (Lindane)	1	5.11	5.05	5.15	0.10	
	2	6.76	6.69	6.79	0.12	20.0
Heptachlor epoxide	1	8.38	8.29	8.43	0.088	
	2	10.23	10.14	10.28	0.14	59.1
Dieldrin	1	9.91	9.82	9.96	0.17	
	2	11.92	11.83	11.97	0.23	35.3
4,4'-DDE	1	9.44	9.34	9.48	0.19	
	2	11.75	11.66	11.80	0.22	15.8
Endrin	1	10.45	10.36	10.50	0.22	
	2	12.67	12.58	12.72	0.24	9.1
Endosulfan sulfate	1	13.21	13.12	13.26	0.15	
	2	14.90	14.81	14.95	0.17	13.3
gamma-Chlordane	1	8.69	8.60	8.74	0.096	
	2	10.73	10.64	10.78	0.10	4.2
	1					
	2					

10LCA
LOW CONCENTRATION WATER PESTICIDE IDENTIFICATION
SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

PMALCS

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 81128 Date(s) Analyzed: 10/01/05 10/01/05

Instrument ID (1): TRACEGC80 Instrument ID (2): TRACEGC81

GC Column(1): CLPEST ID: 0.53(MM) GC Column(2): CLPEST2 ID: 0.53(MM)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
gamma-BHC (Lindane)	1	4.15	4.09	4.19	0.086	
	2	5.32	5.27	5.37	0.084	2.4
Heptachlor epoxide	1	6.94	6.87	7.01	0.089	
	2	8.26	8.19	8.33	2.6	999.9
Dieldrin	1	8.25	8.18	8.32	0.18	
	2	9.70	9.63	9.77	0.16	12.5
4,4'-DDE	1	7.85	7.78	7.92	0.20	
	2	9.58	9.51	9.65	0.18	11.1
Endrin	1	8.71	8.64	8.78	0.20	
	2	10.34	10.27	10.41	0.18	11.1
4,4'-DDD	1	9.14	9.07	9.21	0.019	
	2	10.87	10.80	10.94	0.018	5.6
Endosulfan sulfate	1	11.10	11.03	11.17	0.15	
	2	12.26	12.19	12.33	0.15	0.0
4,4'-DDT	1	9.73	9.66	9.80	0.0050	
	2	11.55	11.48	11.62	0.0080	60.0

10LCA

LOW CONCENTRATION WATER PESTICIDE IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

PMALCS

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 81128 Date(s) Analyzed: 10/01/05 10/01/05

Instrument ID (1): TRACEGC80 Instrument ID (2): TRACEGC81

GC Column(1): CLPEST ID: 0.53(MM) GC Column(2): CLPEST2 ID: 0.53(MM)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
gamma-Chlordane	1	7.20	7.13	7.27	0.093	
	2	8.68	8.62	8.76	0.087	6.9
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

1. Pesticide Identification Summary for Multicomponent Analytes (Form X LCP-2)

For all samples with positively identified multicomponent analytes, in order by increasing EPA sample number.

m. Chromatograms and Data System Printouts

For all standards including the following:

- Resolution check mixture
- Performance evaluation mixtures, all;
- Individual Standard Mixture A, at three concentrations, each initial calibration
- Individual Standard Mixture B, at three concentrations, each initial calibration
- All multicomponent analytes (toxaphene and Aroclors), each initial calibration
- All mid-point concentrations of Individual Standard Mixtures A and B used for calibration verification
- All multicomponent analyte standards analyzed for confirmation

n. Printout of Retention Time & Corresponding Peak Height or Peak Area

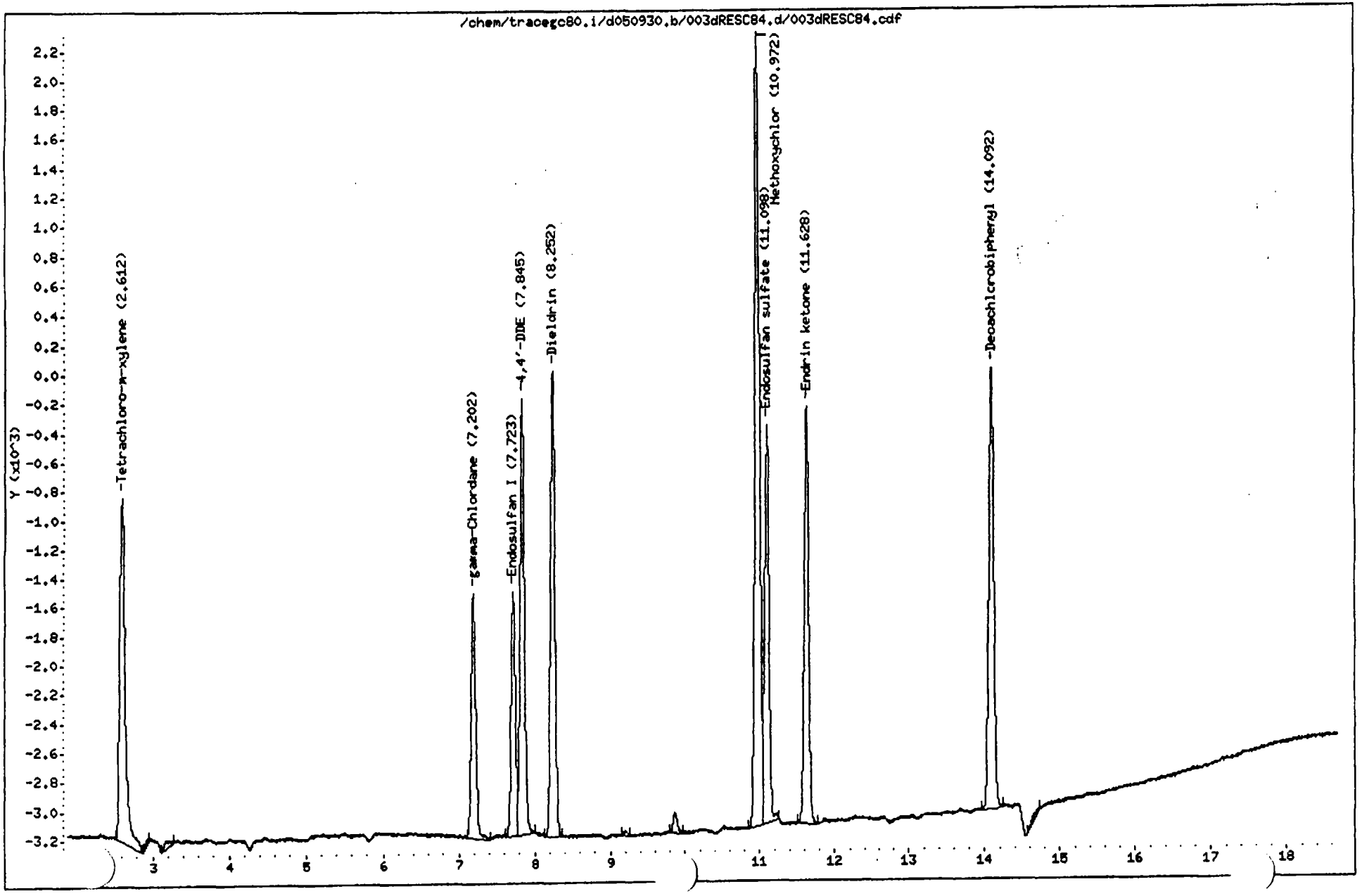
The chromatograms shall include the following: EPA sample number for the standard, label all standard peaks, total nanograms injected for each standard, date and time of injection, GC column identifier (by stationary phase and internal diameter), GC instrument identifier, and scaling factor.

COPY
E0369-34611
ORIGINAL DOCUMENTS INCLUDED IN CSF Page 1

Data File: /chem/tracegc80.i/d050930.b/003dRESC84.d
Date : 30-SEP-2005 17:48
Client ID: RESC84
Sample Info: RESC84
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc80.i
SIGNATURE TAJ DATE 10/4/05

Operator: 2512
Column diameter: 0.53

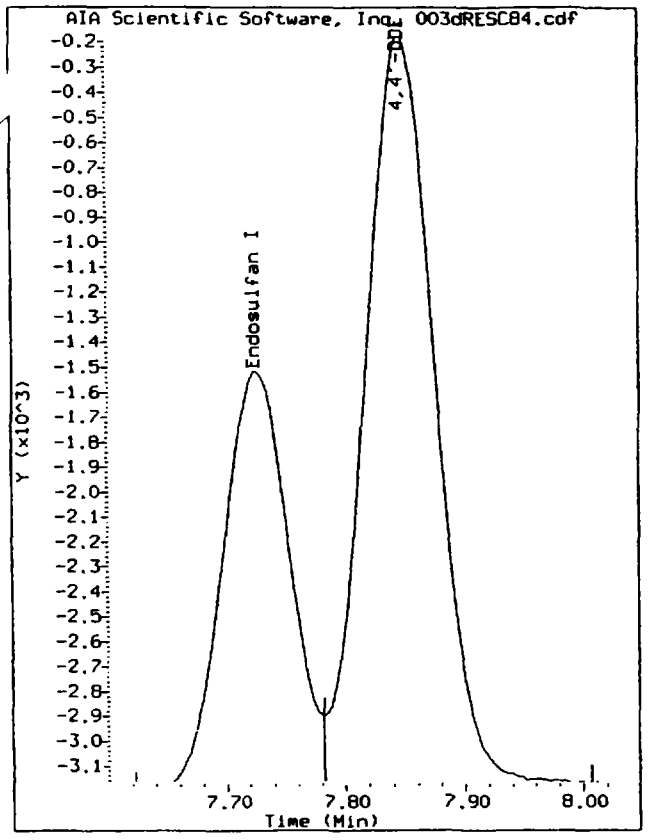


CompuChem Environmental Corporation

Lab Smp Id : RESC84 Client Smp Id : RESC84
Sample Type : RESOLUTION Sublist : RESC
Inj Date : 30-SEP-2005 17:48 Inst ID : TRACEGC80
Operator : 2512
Method : /chem/tracegc80.i/d050930.b/2ulOLM04_clpestv6.m
Misc. Info : None

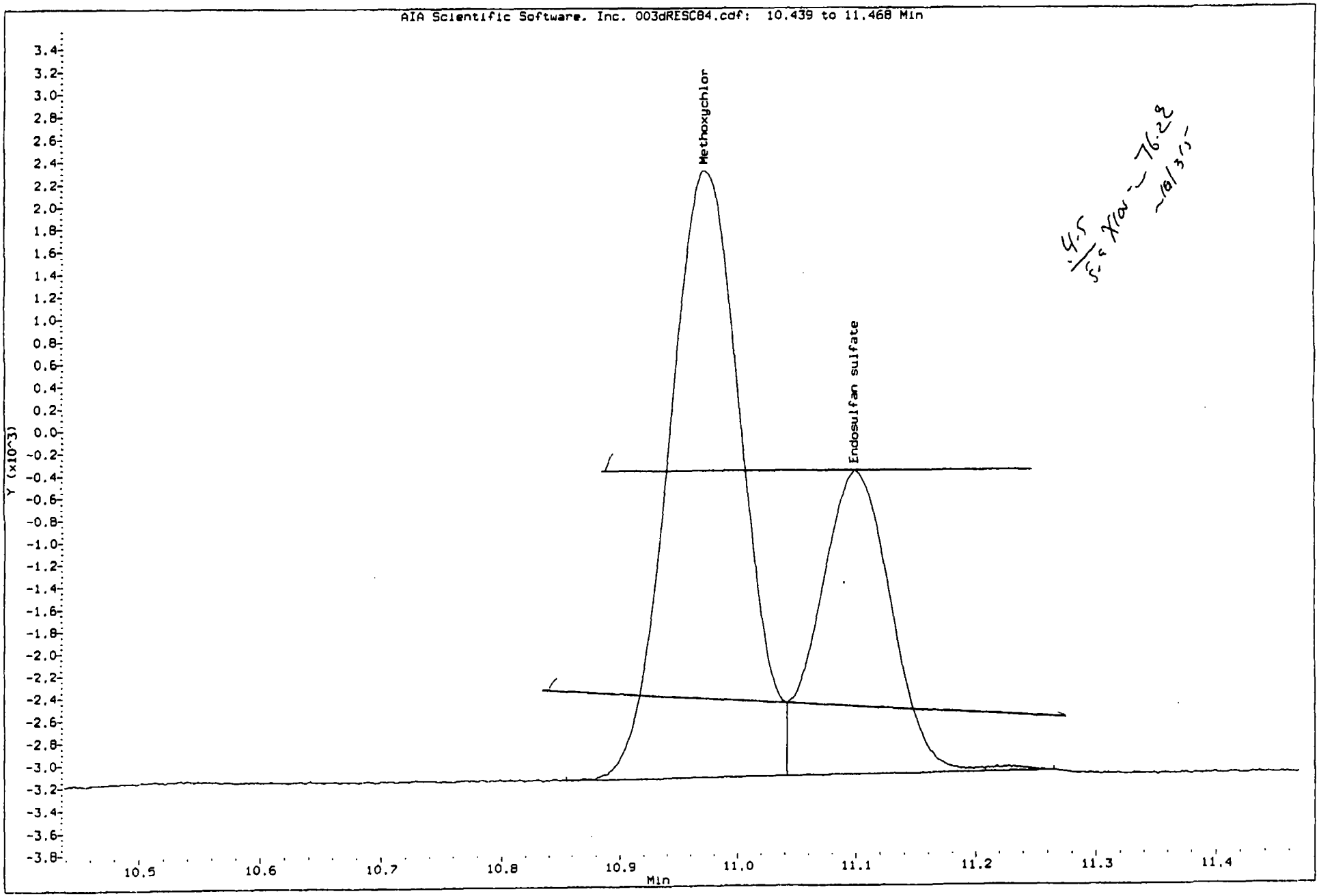
RT	RT WINDOW		AREA	COMPOUND	FLAGS
0.13			2793		
0.60			115246		
1.03			557		
1.25			348		
1.47			231		
1.88			246		
2.61	2.55	2.65	11735	Tetrachloro-m-xylene	
2.94			81		
3.17			294		
7.20	7.13	7.27	6900	gamma-Chlordane	
7.72	7.65	7.79	6522	Endosulfan I	
7.84	7.78	7.92	12181	4,4'-DDE	
8.25	8.18	8.32	12625	Dieldrin	
9.21			155		
9.87			603		
10.97	10.90	11.04	23405	Methoxychlor	
11.10	11.03	11.17	11532	Endosulfan sulfate	
11.63	11.56	11.70	11813	Endrin ketone	
14.09	13.99	14.19	13798	Decachlorobiphenyl	
14.71			227		

Non-Fully Resolved Peaks

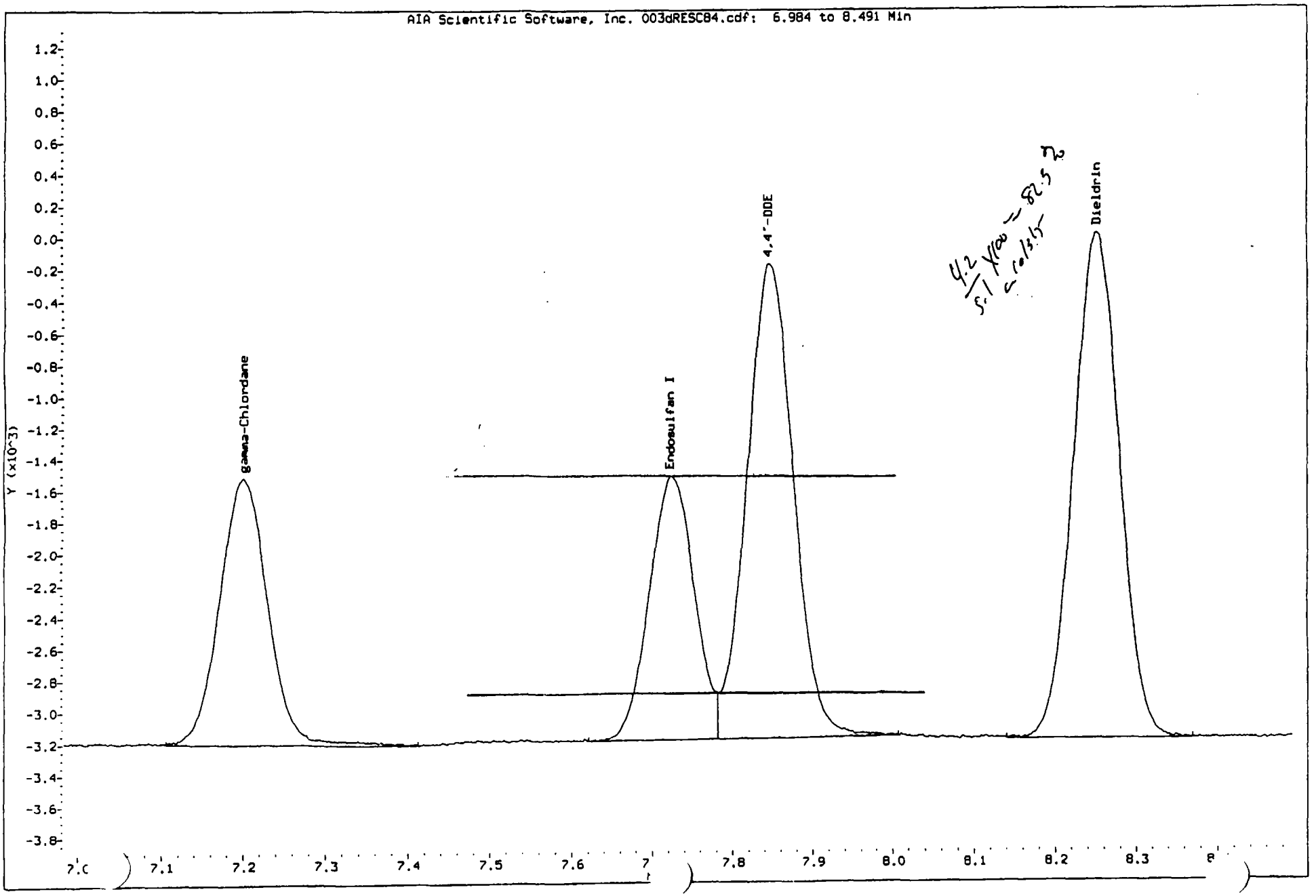


Resolution: 82.4%

Data File: /chem/tracegc80.i/d050930.b/003dRESC84.d/003dRESC84.cdf
Injection Date: 30-SEP-2005 17:48
Instrument: tracegc80.i
Client Sample ID: RESC84



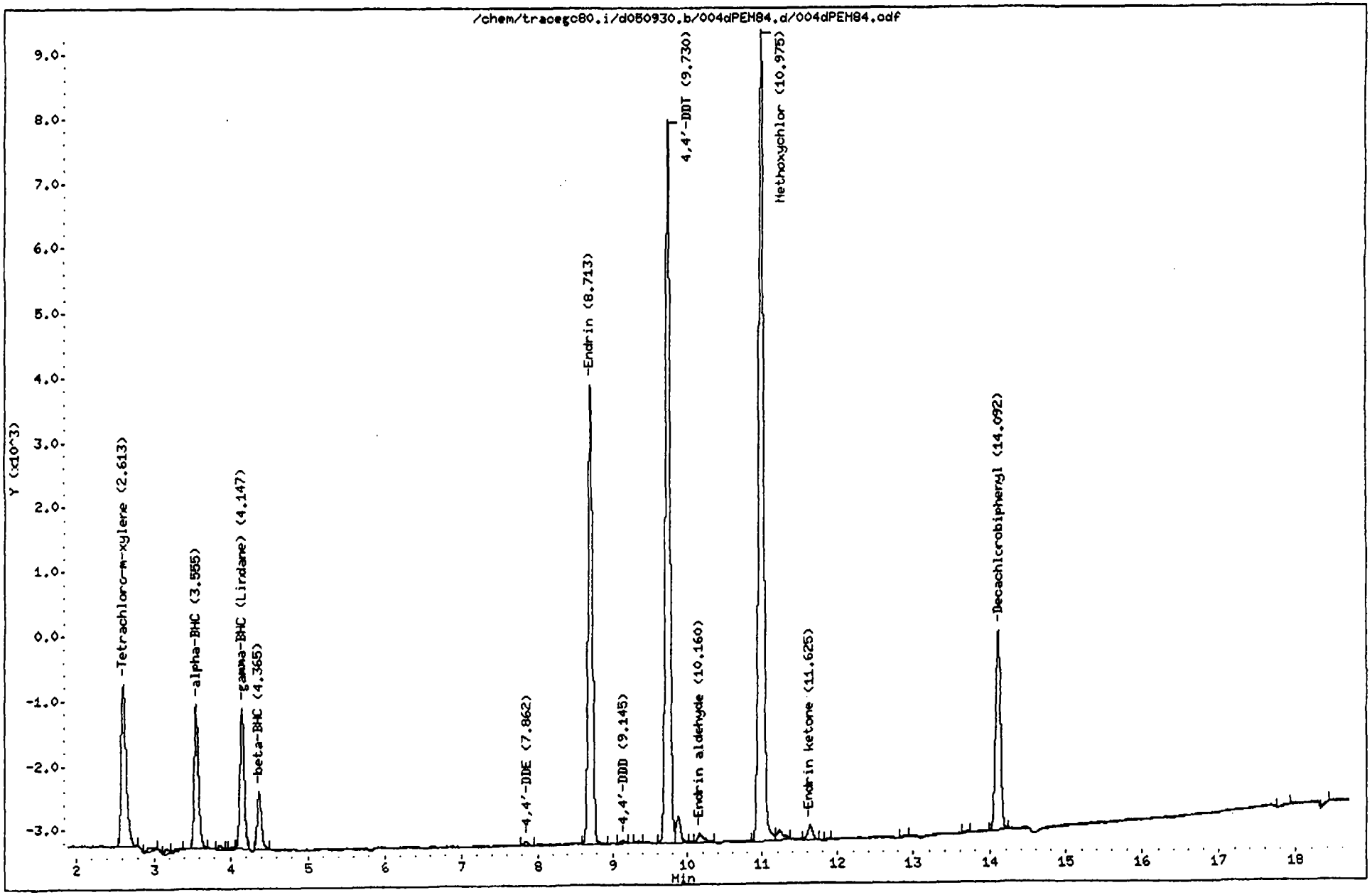
Data File: /chem/tracegc80.i/d050930.b/003dRESC84.d/003dRESC84.cdf
Injection Date: 30-SEP-2005 17:48
Instrument: tracegc80.i
Client Sample ID: RESC84



Data File: /chem/tracegc80.i/d050930.b/004dPEM84.d
Date : 30-SEP-2005 18:10
Client ID: PEM84
Sample Info: PEM84
Volume Injected (uL): 1.0
Column phase: olpest

Instrument: tracegc80.i

Operator: 2512
Column diameter: 0.53



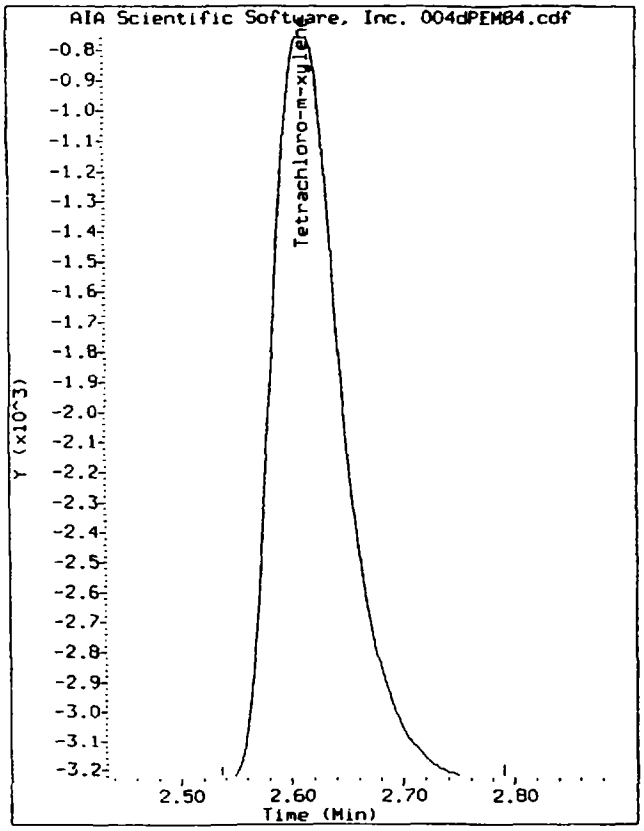
CompuChem Environmental Corporation

Lab Smp Id : PEM84 Client Smp Id : PEM84
Sample Type : PEM Sublist : PEM
Date : 30-SEP-2005 18:10 Inst ID : TRACEGC80
Operator : 2512 Spike Sublist : PEM
Method : /chem/tracegc80.i/d050930.b/2ul0LM04_clpestv6.m
Misc. Info : None

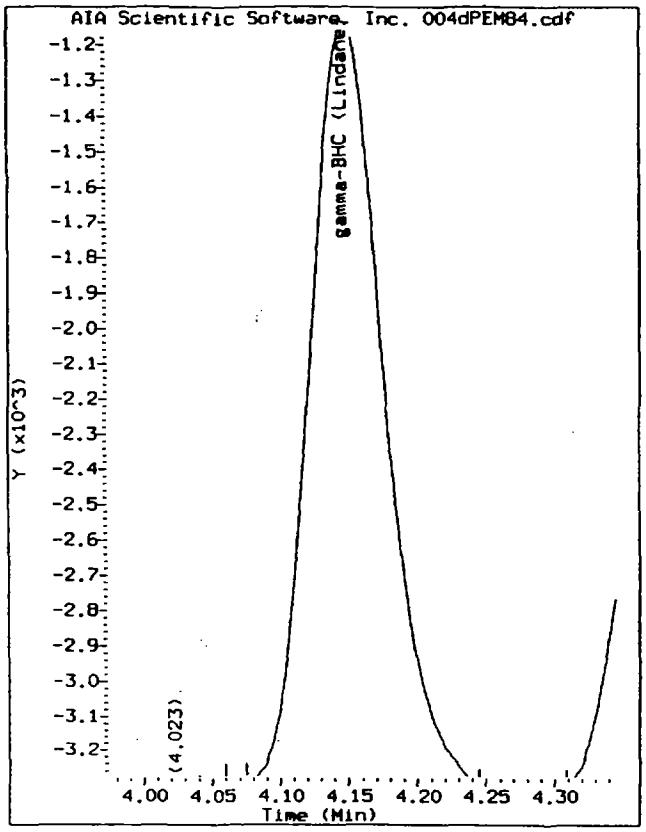
RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CALC AMT ON-COLUMN (Ng)	%D	%D LIMIT	FLAGS
0.13			3067							
0.56			6738							
0.59			771							
0.70			10373							
1.03			503							
1.27			434							
1.47			247							
1.71			446							
1.87			156							
2.61	2.55	2.65	11183	513950	Tetrachloro-m-xylene	0.020000	0.021760	8.8	25.0	M
2.95			331							
3.17			290							
3.31			252							
3.56	3.50	3.60	8761	816650	alpha-BHC	0.010000	0.010728	7.3	25.0	
3.87			254							
4.02			100							
4.15	4.09	4.19	8140	759250	gamma-BHC (Lindane)	0.010000	0.010721	7.2	25.0	M
4.36	4.32	4.42	3508	303500	beta-BHC	0.010000	0.011560	15.6	25.0	M
7.86	7.78	7.92	303	526150	4,4'-DDE	0.000000	0.000576			J
8.71	8.64	8.78	28498	485700	Endrin	0.050000	0.058673	17.3	25.0	
9.14	9.07	9.21	169	411450	4,4'-DDD	0.000000	0.000410			J
9.35			124							
9.73	9.66	9.80	46323	457225	4,4'-DDT	0.100000	0.101312	1.3	25.0	
17			1795							
6	10.09	10.23	725	367350	Endrin aldehyde	0.000000	0.001975			J
98	10.90	11.04	55295	222300	Methoxychlor	0.250000	0.248739	-0.5	25.0	
11.23			897							
11.62	11.56	11.70	979	495800	Endrin ketone	0.000000	0.001975			J
11.86			100							
12.91			138							
13.70			75							
14.09	13.99	14.19	13935	615700	Decachlorobiphenyl	0.020000	0.022633	13.2	25.0	
17.92			147							
18.42			194							

TAJ 10/4/05

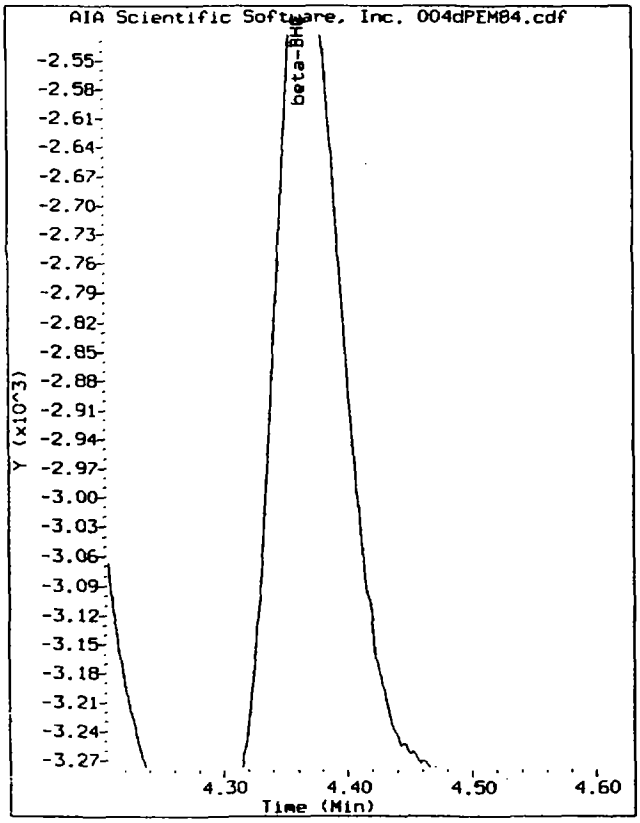
Manually Integrated Peaks



Start: 2.54 Stop: 2.79



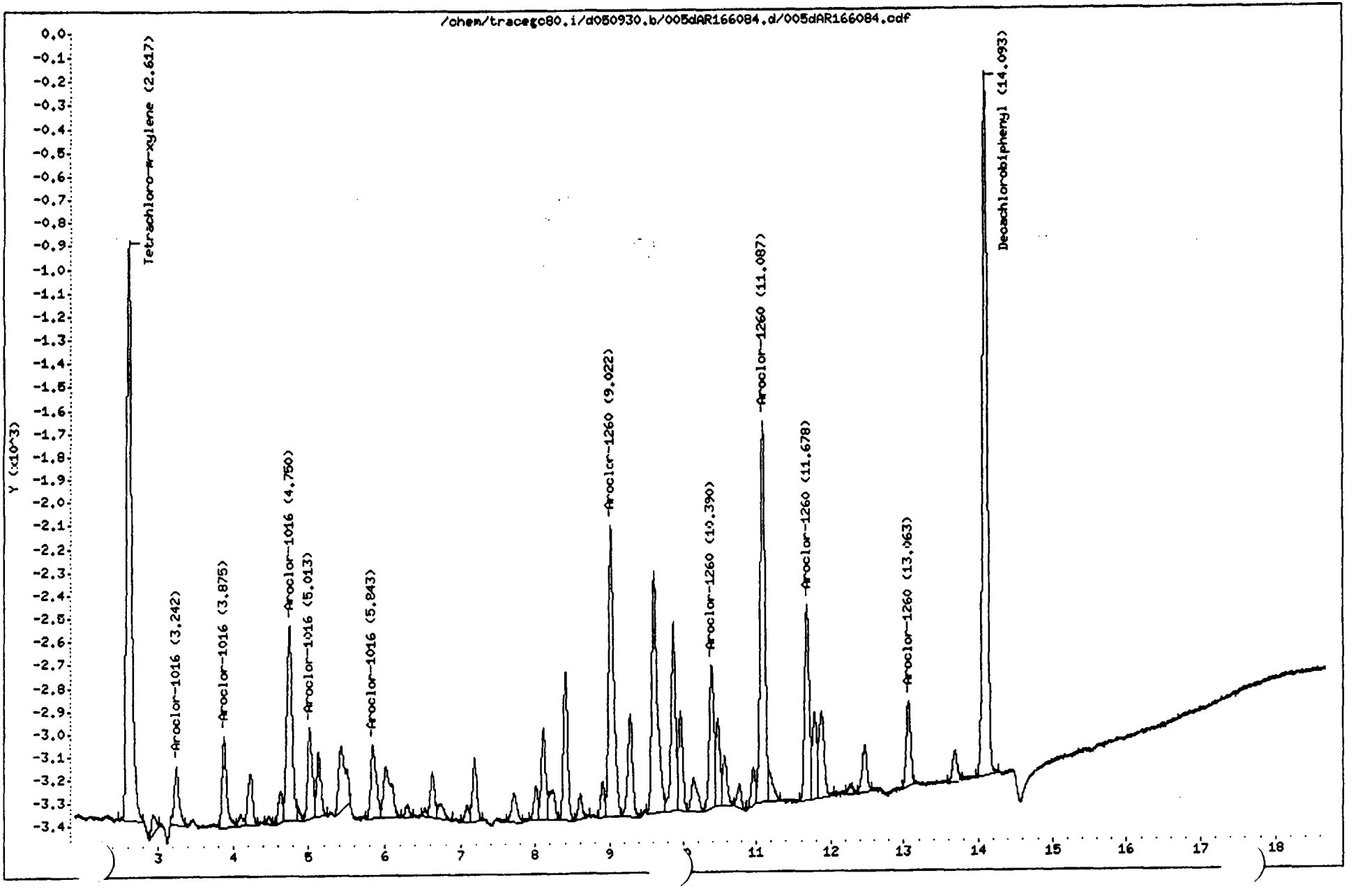
Start: 4.08 Stop: 4.25



Start: 4.31 Stop: 4.51

Data File: /chem/tracegc80.i/d050930.b/005dAR166084.d
Date : 30-SEP-2005 18:32
Client ID: AR166084
Sample Info: AR166084
Volume Injected (uL): 1.0
Column phase: olpest

Instrument: tracegc80.i
Operator: 2512
Column diameter: 0.53



CompuChem Environmental Corporation

Lab Smp Id : AR166084 Client Smp Id : AR166084
Sample Type : INITIAL CAL: Level 2 Sublist : AR1660
Inj Date : 30-SEP-2005 18:32 Inst ID : TRACEGC80
Operator : 2512
Method : /chem/tracegc80.i/d050930.b/2ulOLM04_clpestv6.m
Misc. Info : None

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
0.13			1134					
0.59			10909					
0.70			5602					
1.02			517					
1.25			520					
1.47			216					
1.86			110					
2.62	2.55	2.65	11230	513950	Tetrachloro-m-xylene	0.020000		M2
2.93			348					
3.24	3.17	3.31	1097	10970	Aroclor-1016 Peak 1	0.100000	10970	M2
3.88	3.81	3.95	1695	16950	Aroclor-1016 Peak 2	0.100000	16950	
4.11			203					
4.22			1025					
4.47			120					
4.63			499					
4.75	4.68	4.82	4221	42210	Aroclor-1016 Peak 3	0.100000	42210	M
4.85			185					
5.01	4.94	5.08	1635	16350	Aroclor-1016 Peak 4	0.100000	16350	
5.13			1121					
5.43			1841					
5.84	5.77	5.91	1630	16300	Aroclor-1016 Peak 5	0.100000	16300	
6.02			1623					
6.30			233					
6.53			102					
6.63			754					
6.72			431					
7.09			271					
7.19			1119					
7.72			666					
8.01			548					
8.12			1617					
8.23			730					
8.41			2570					
8.61			435					
8.90			513					
9.02	8.95	9.09	6125	61250	Aroclor-1260 Peak 1	0.100000	61250	
9.29			2047					
9.61			5702					
9.88			3475					
9.97			1693					
10.15			823					
10.39	10.32	10.46	2634	26340	Aroclor-1260 Peak 2	0.100000	26340	

1 of 4

TAJ 10/4/05

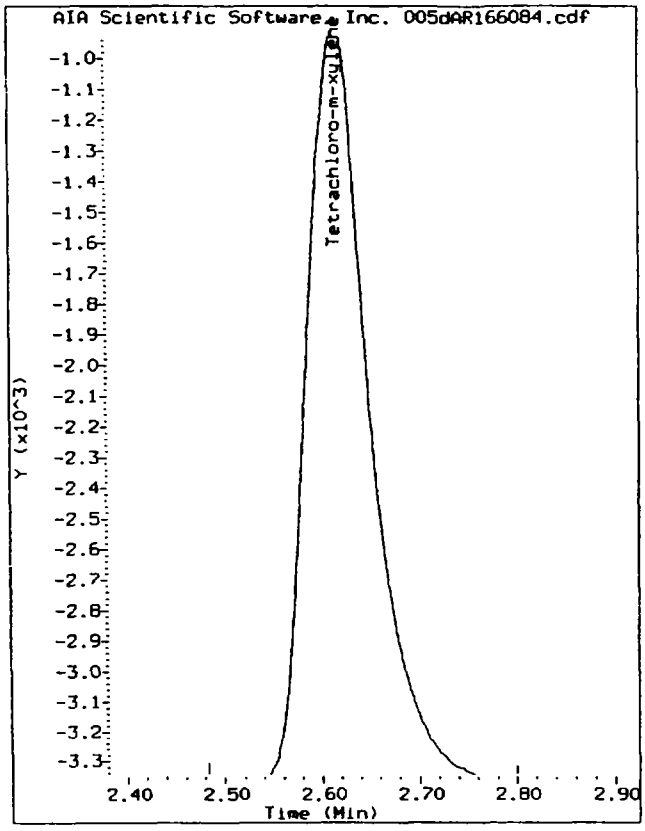
CompuChem Environmental Corporation

Lab Smp Id : AR166084 Client Smp Id : AR166084
Sample Type : INITIAL CAL: Level 2 Sublist : AR1660
Inj Date : 30-SEP-2005 18:32 Inst ID :
Operator : 2512
Method : /chem/tracegc80.i/d050930.b/2ulOLM04_clpestv6.m
Misc. Info : None

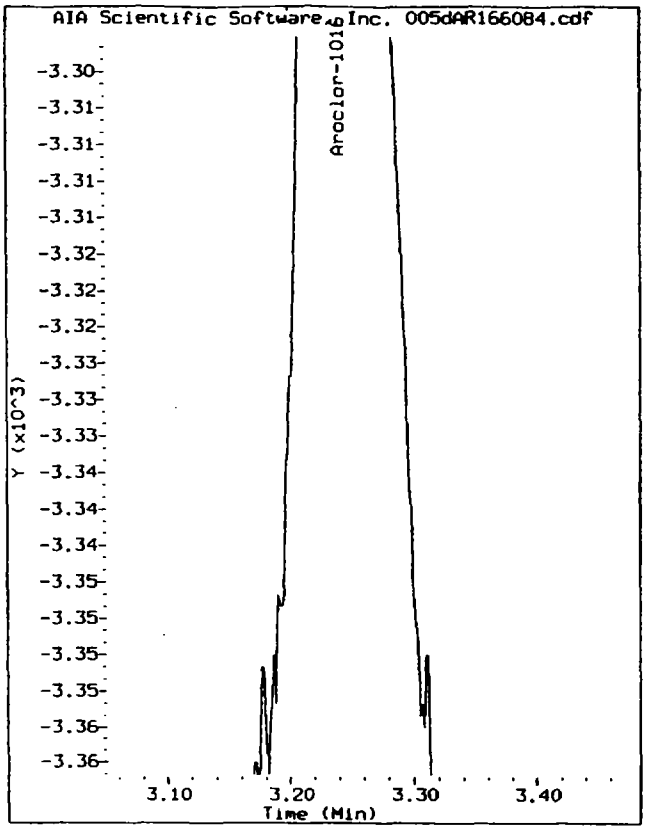
RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
10.47		1510					
10.57		944					
10.76		449					
10.96		653					
11.09	11.02 11.16	7243	72420	Aroclor-1260 Peak 3	0.100000	72420	M
11.16		555					
11.68	11.61 11.75	3644	36430	Aroclor-1260 Peak 4	0.100000	36430	
11.78		1523					
11.87		1901					
12.27		172					
12.46		956					
13.06	12.99 13.13	1531	15310	Aroclor-1260 Peak 5	0.100000	15310	
13.69		634					
14.09	13.99 14.19	13721	615700	Decachlorobiphenyl	0.040000		

TAJ 10/4/05

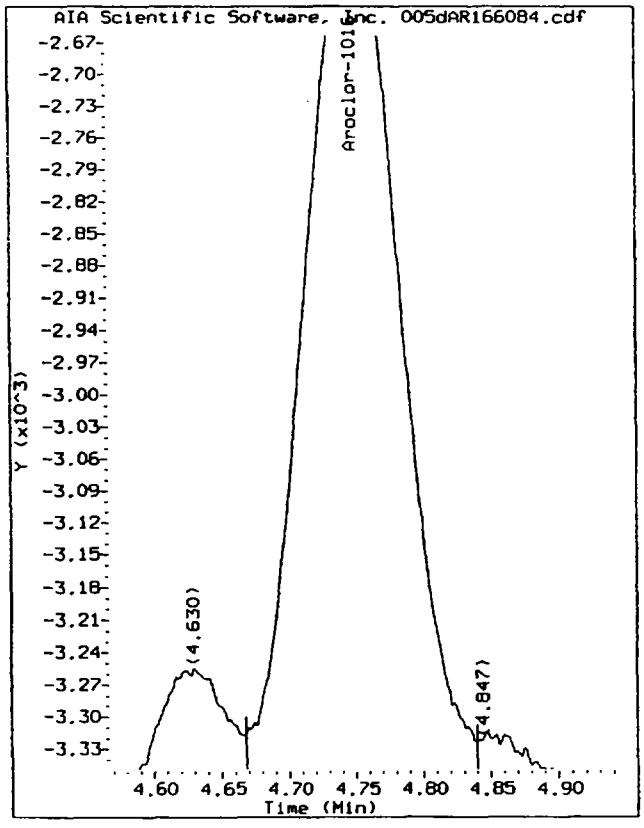
Manually Integrated Peaks



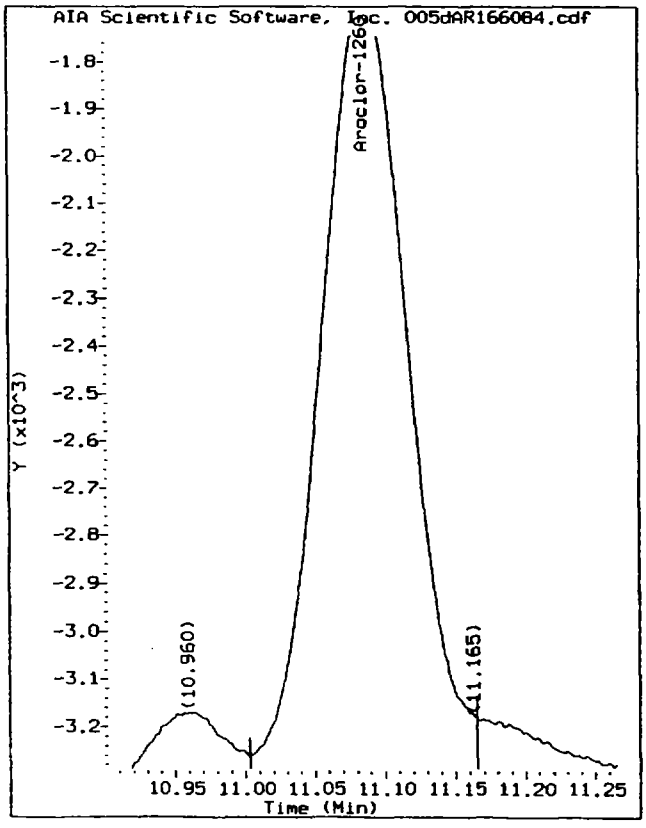
Start: 2.48 Stop: 2.80



Start: 3.15 Stop: 3.37

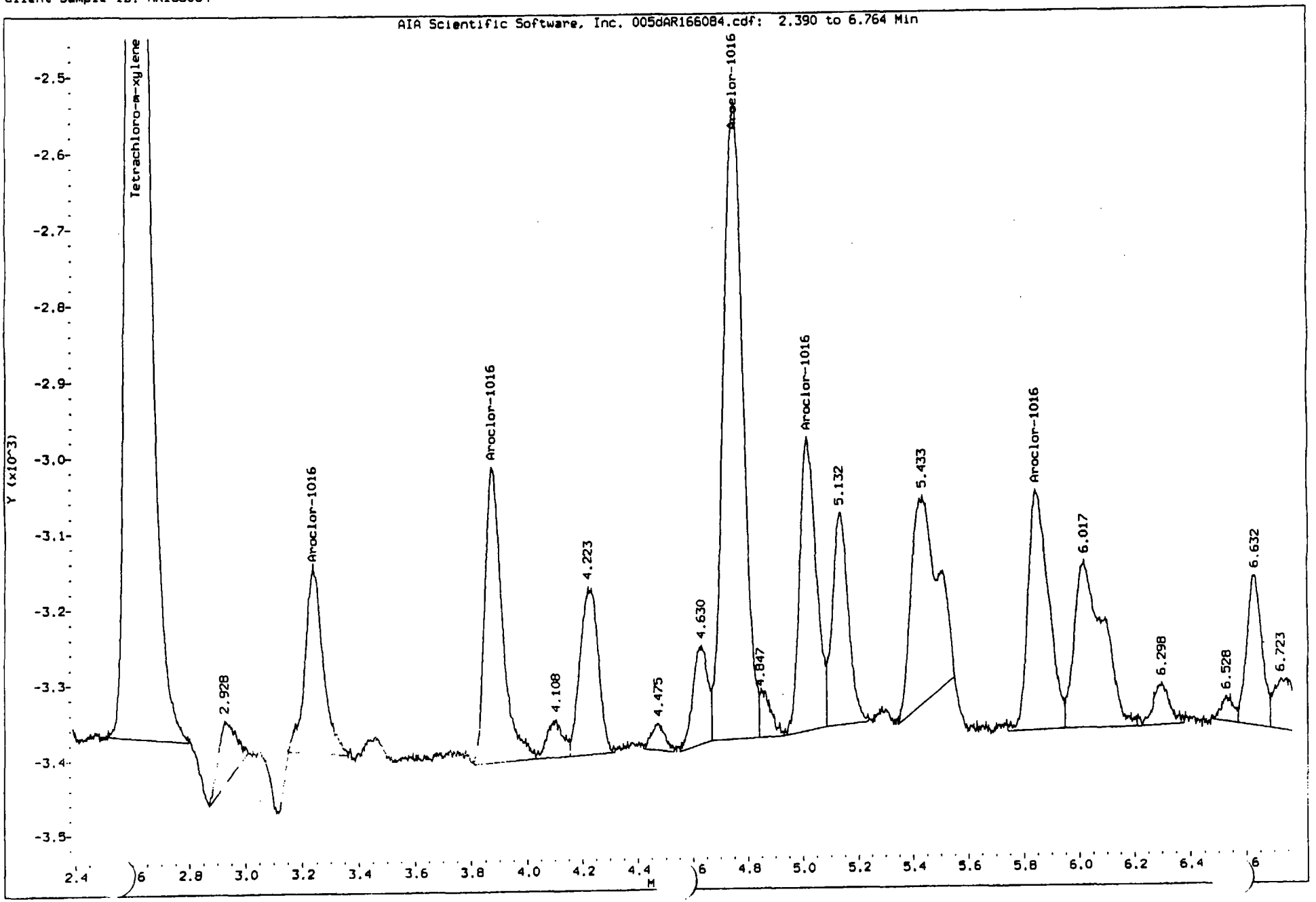


Start: 4.67 Stop: 4.84

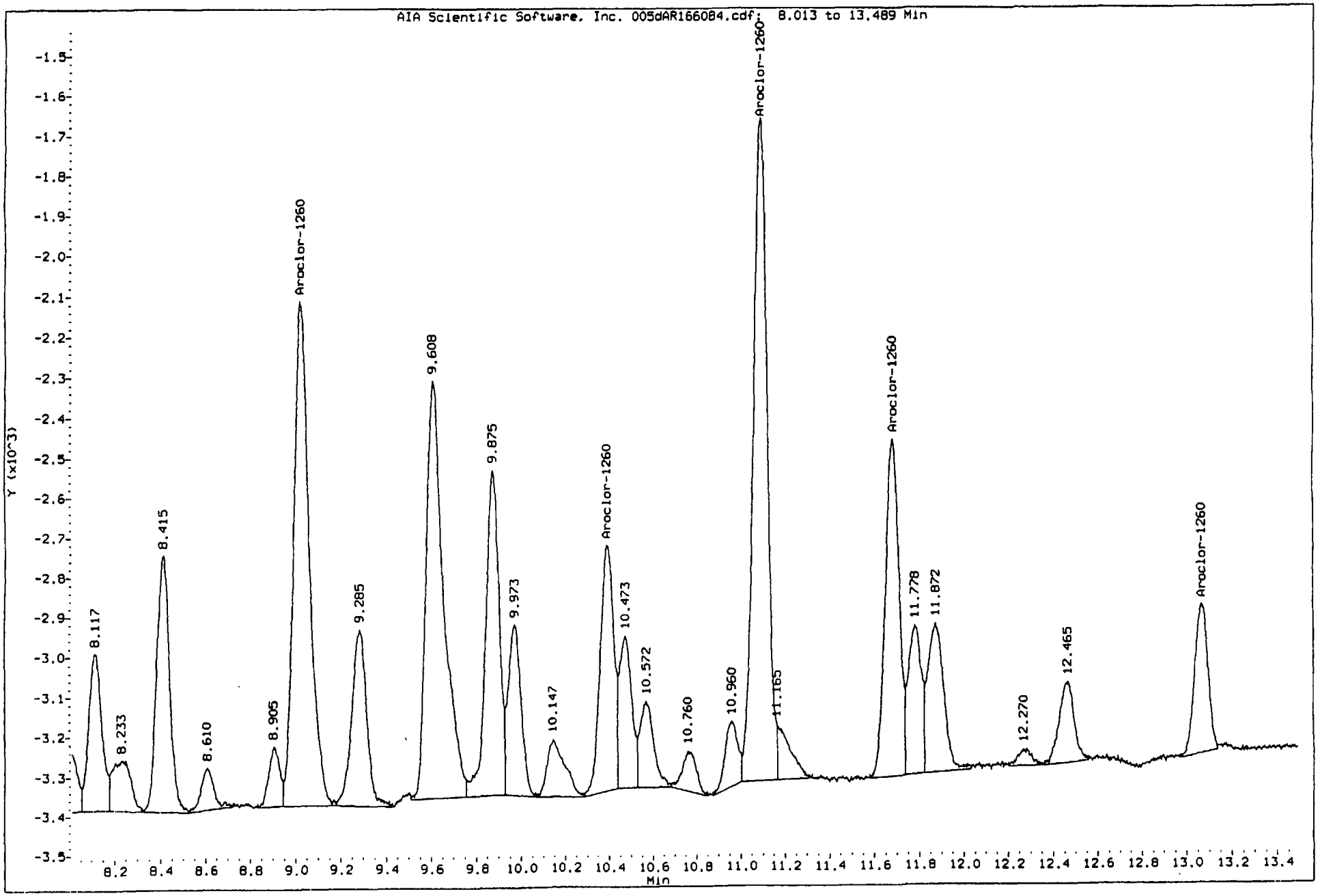


Start: 11.00 Stop: 11.16

Data File: /chem/tracegc80.i/d050930.b/005dAR166084.d/005dAR166084.cdf
Injection Date: 30-SEP-2005 18:32
Instrument: tracegc80.i
Client Sample ID: AR166084

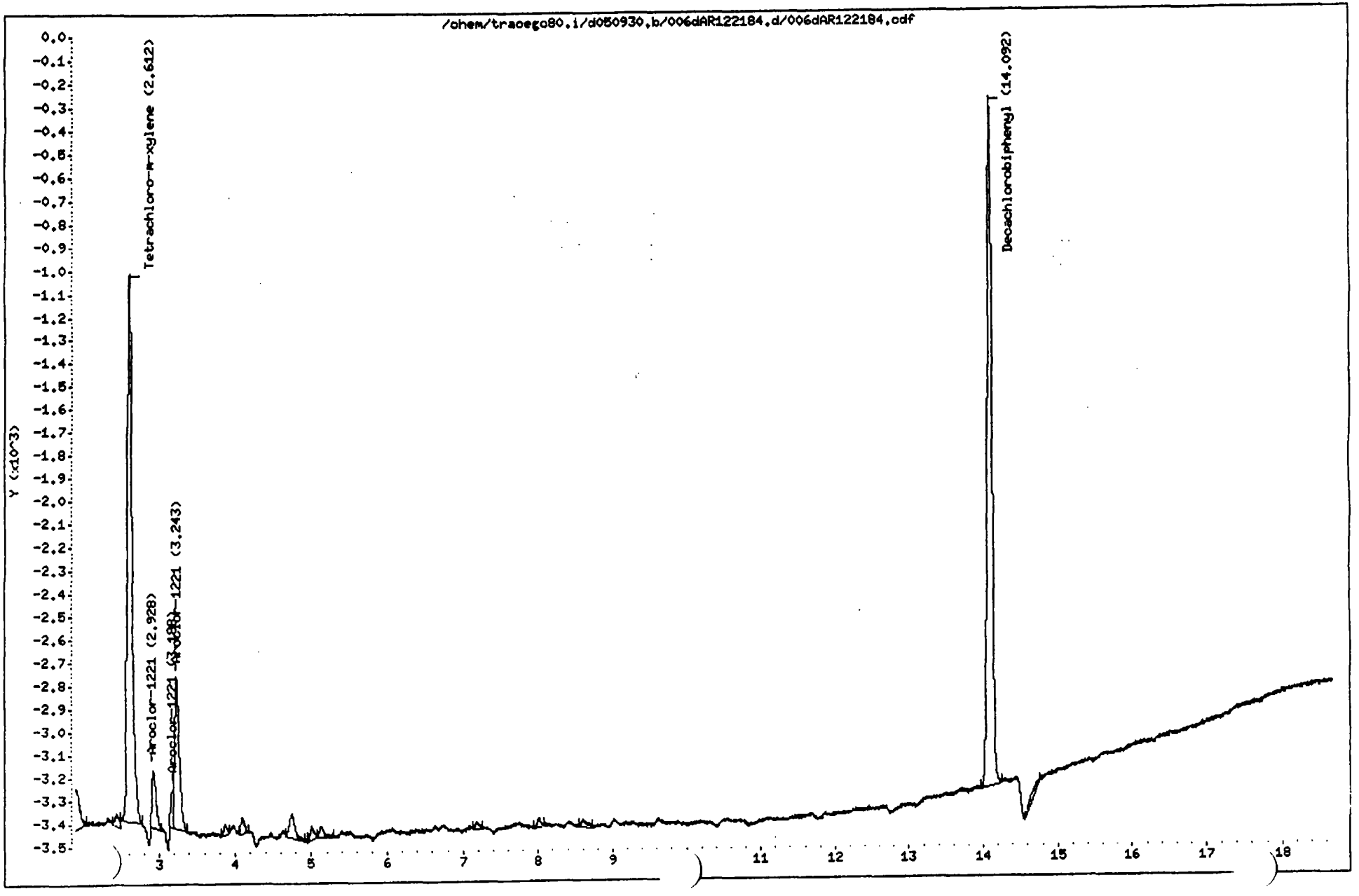


Data File: /chem/tracegc80.i/d050930.b/005dAR166084.d/005dAR166084.cdf
Injection Date: 30-SEP-2005 18:32
Instrument: tracegc80.i
Client Sample ID: AR166084



Data File: /chem/tracego80.i/d050930.b/006dAR122184.d
Date : 30-SEP-2005 18:54
Client ID: AR122184
Sample Info: AR122184
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracego80.i
Operator: 2512
Column diameter: 0.53



CompuChem Environmental Corporation

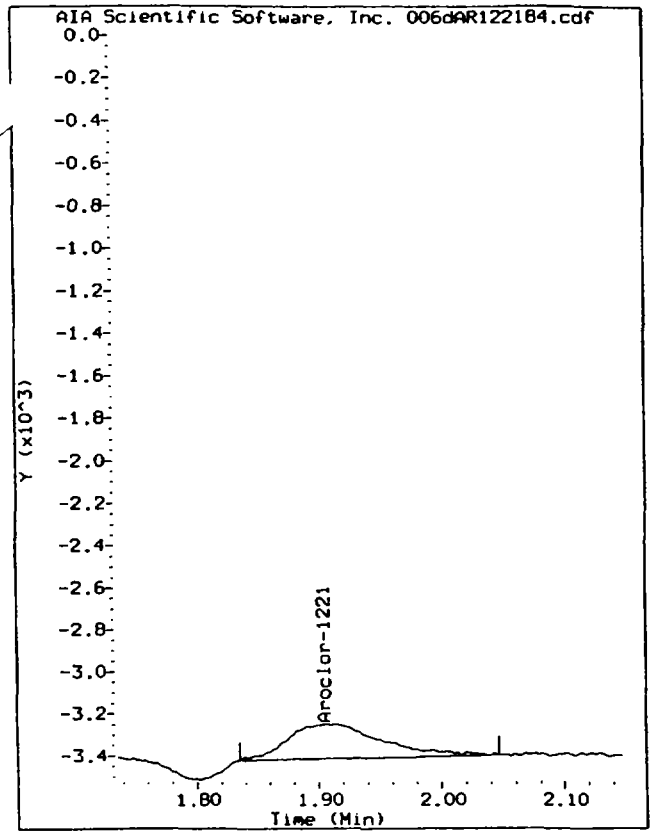
Lab Smp Id : AR122184 Client Smp Id : AR122184
Sample Type : INITIAL CAL: Level 2 Sublist : AR1221
Inj Date : 30-SEP-2005 18:54 Inst ID : TRACEGC80
Operator : 2512
Method : /chem/tracegc80.i/d050930.b/2ulOLM04_clpestv6.m
Misc. Info : None

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
0.14			2741					
0.31			498					
0.56			5057					
0.60			4665					
0.70			5846					
1.03			497					
1.29			599					
1.48			247					
1.91	1.84	1.98	887	4435	Aroclor-1221 Peak 1	0.200000	4435.000	M
2.45			218					
2.61	2.55	2.65	10753	513950	Tetrachloro-m-xylene	0.020000		M
2.93	2.86	3.00	961	4800	Aroclor-1221 Peak 2	0.200000	4800.000	M
3.19	3.12	3.26	358	1785	Aroclor-1221 Peak 3	0.200000	1785.000	M
3.24	3.17	3.31	2832	14155	Aroclor-1221 Peak 4	0.200000	14155	M
3.88			163					
4.11			240					
4.75			550					
5.01			197					
5.13			213					
7.19			126					
8.02			153					
8.61			184					
14.09	13.99	14.19	13617	615700	Decachlorobiphenyl	0.040000		
14.74			267					

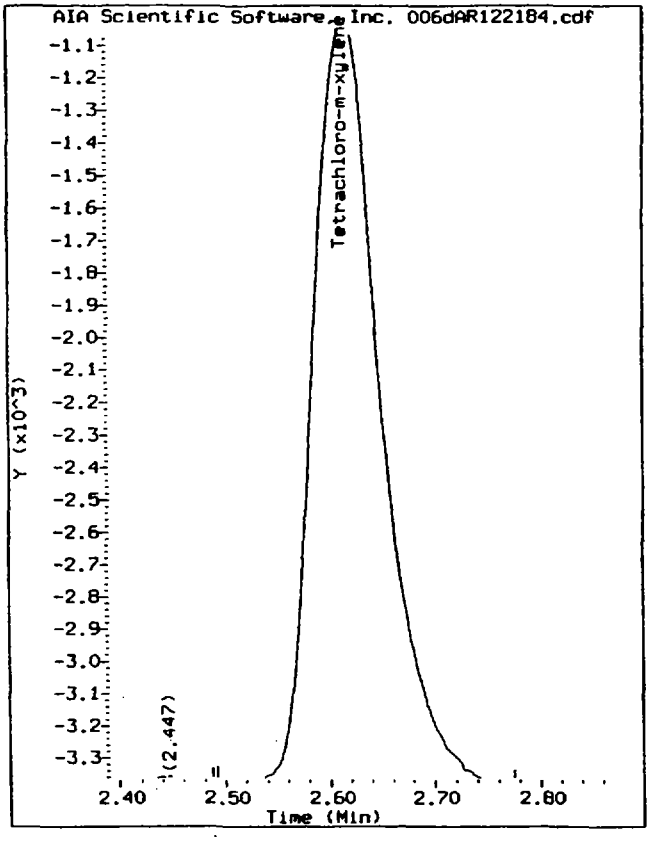
C (dbl)

TAJ 10/4/05

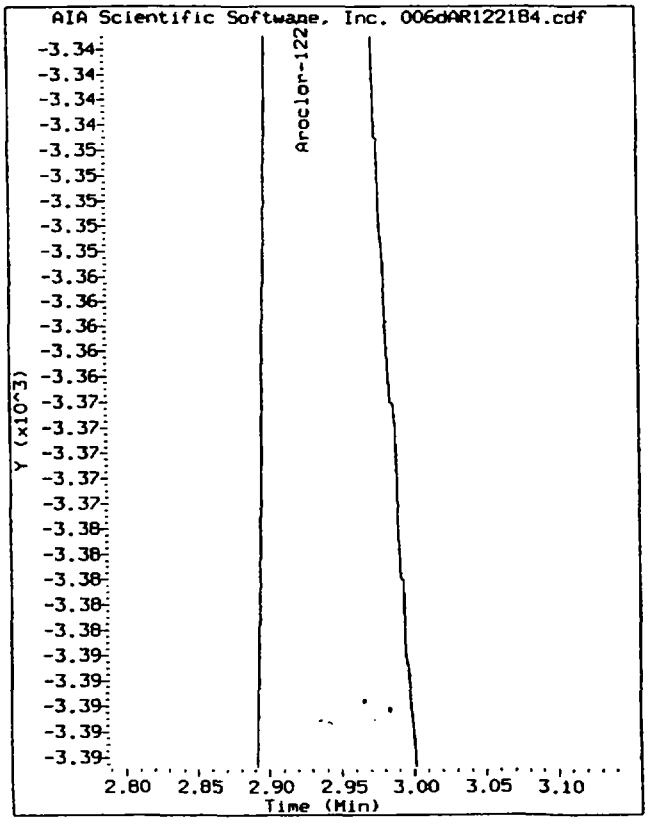
Manually Integrated Peaks



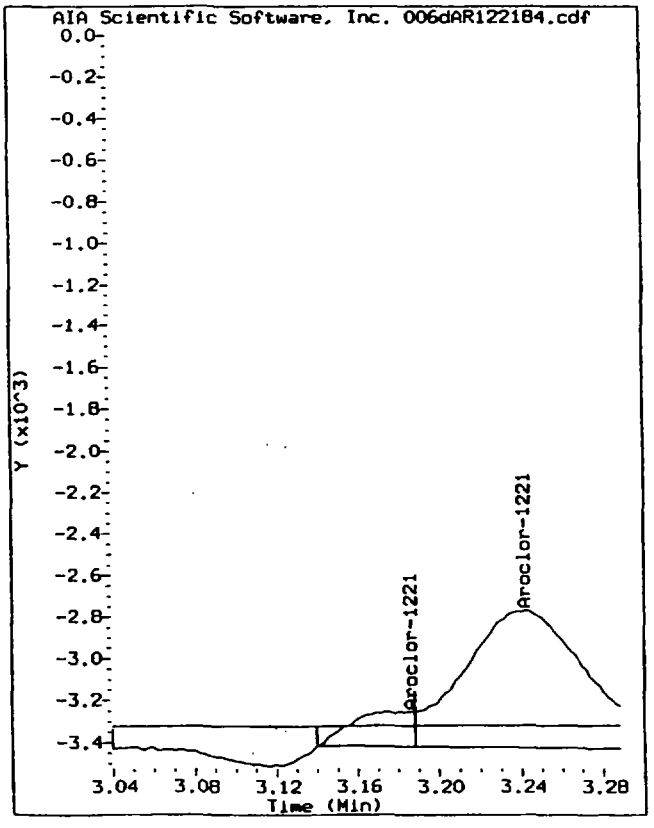
Start: 1.84 Stop: 2.05



Start: 2.49 Stop: 2.77

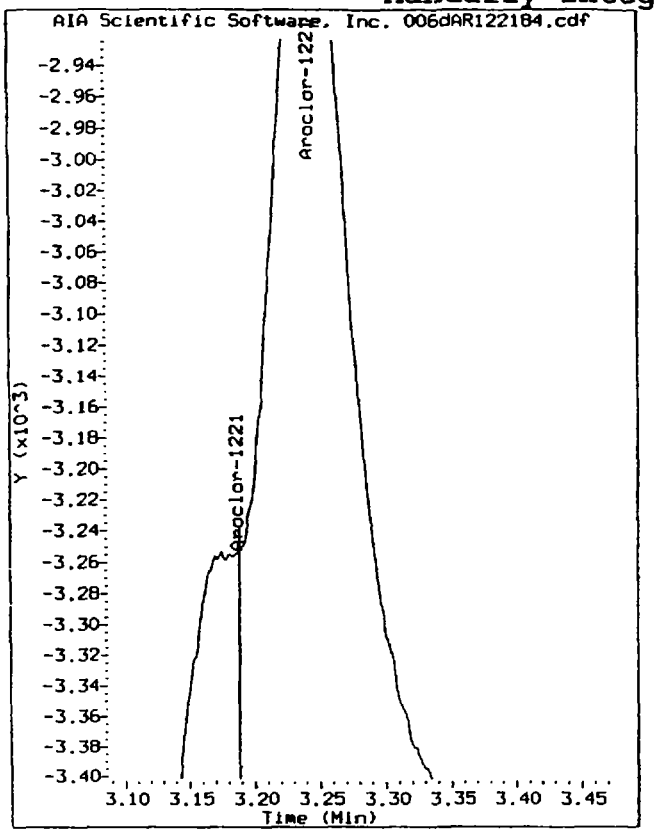


Start: 2.89 Stop: 3.04



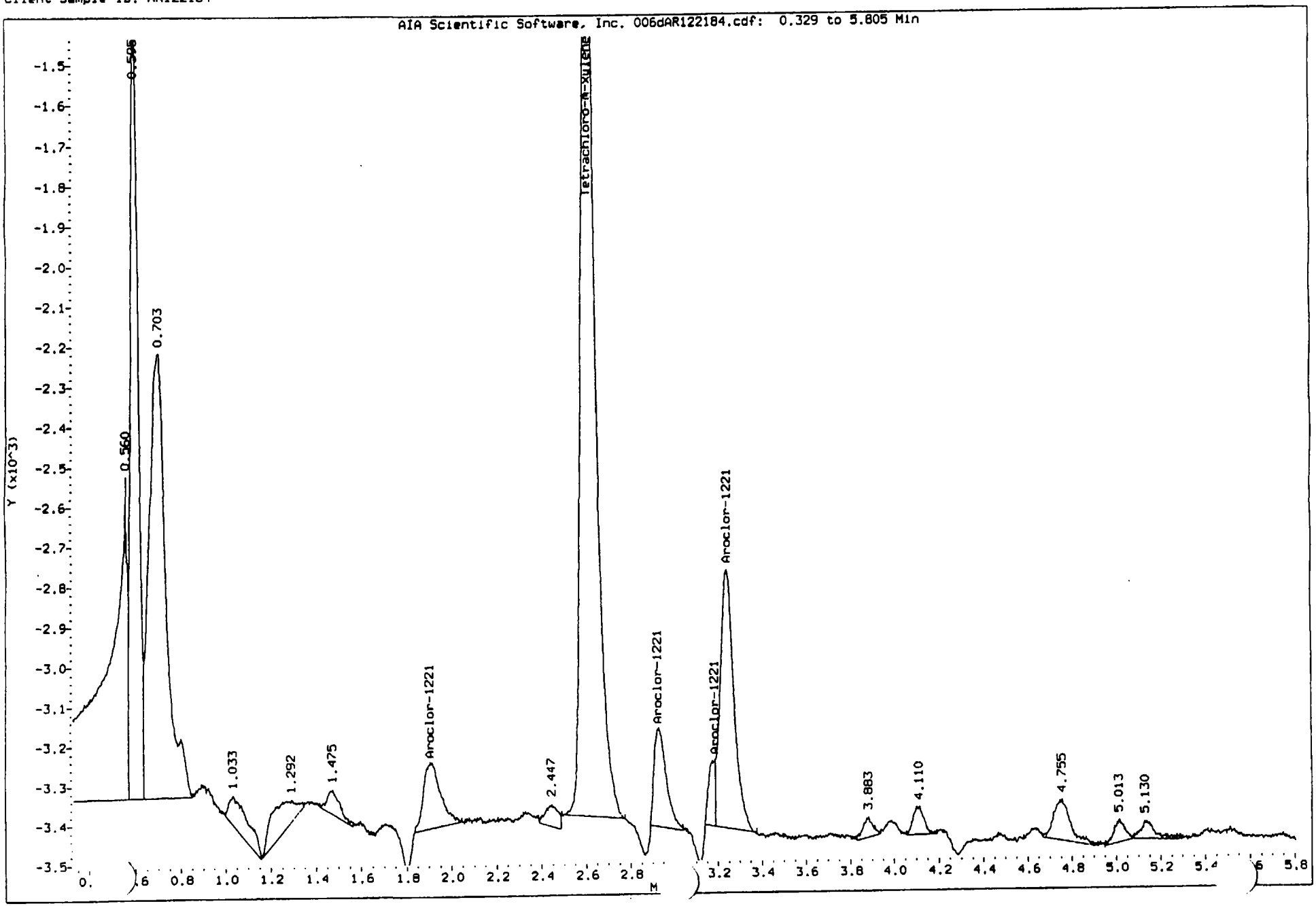
Start: 3.14 Stop: 3.19

Manually Integrated Peaks



Start: 3.19 Stop: 3.38

Data File: /chem/tracegc80.i/d050930.b/006dAR122184.d/006dAR122184.cdf
Injection Date: 30-SEP-2005 18:54
Instrument: tracegc80.i
Client Sample ID: AR122184



Data File: /chem/tracego80.i/d050930.b/007dAR123284.d

Date : 30-SEP-2005 19:15

Client ID: AR123284

Instrument: tracego80.i

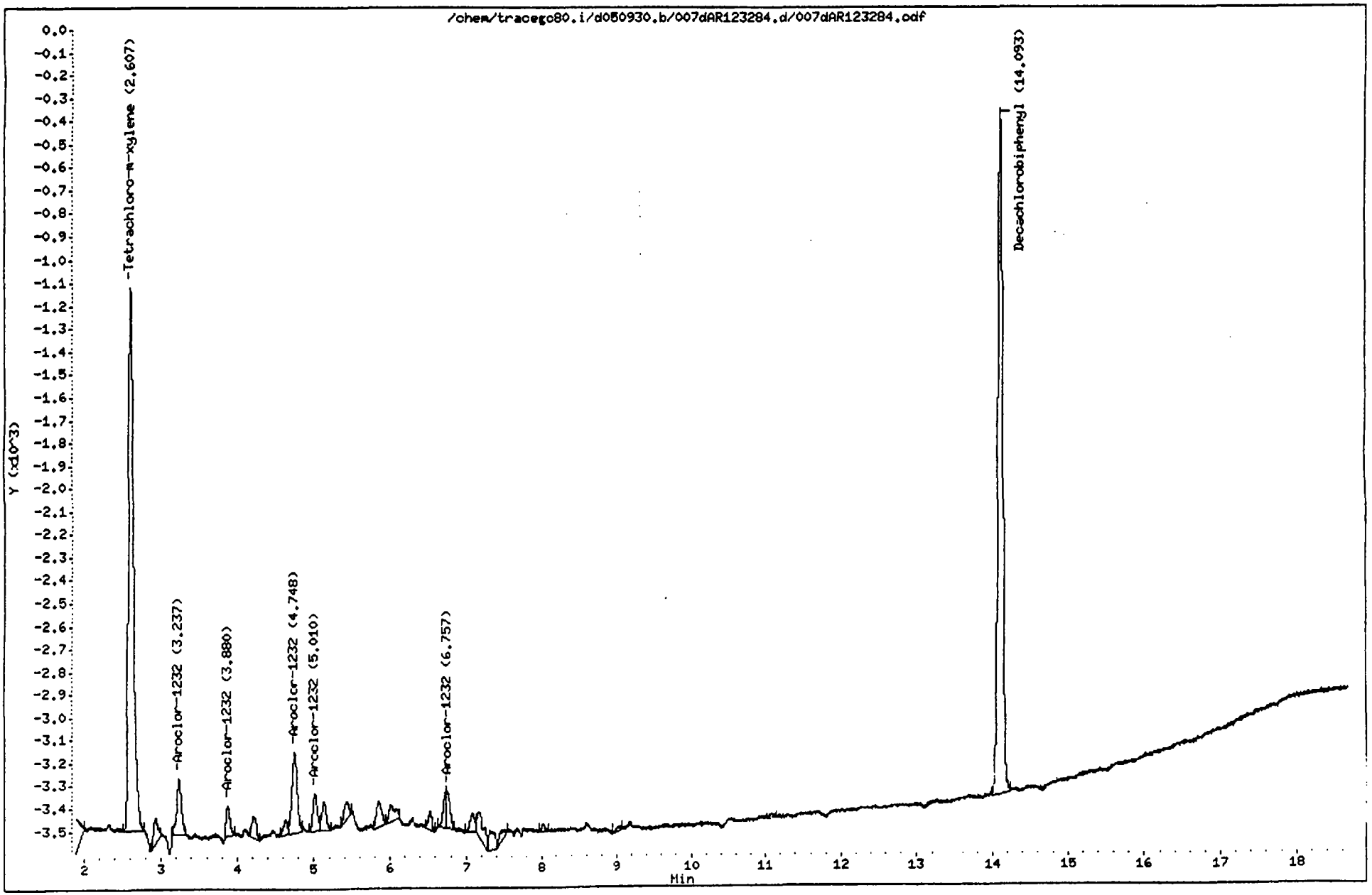
Sample Info: AR123284

Volume Injected (uL): 1.0

Operator: 2512

Column phase: olpest

Column diameter: 0.53



CompuChem Environmental Corporation

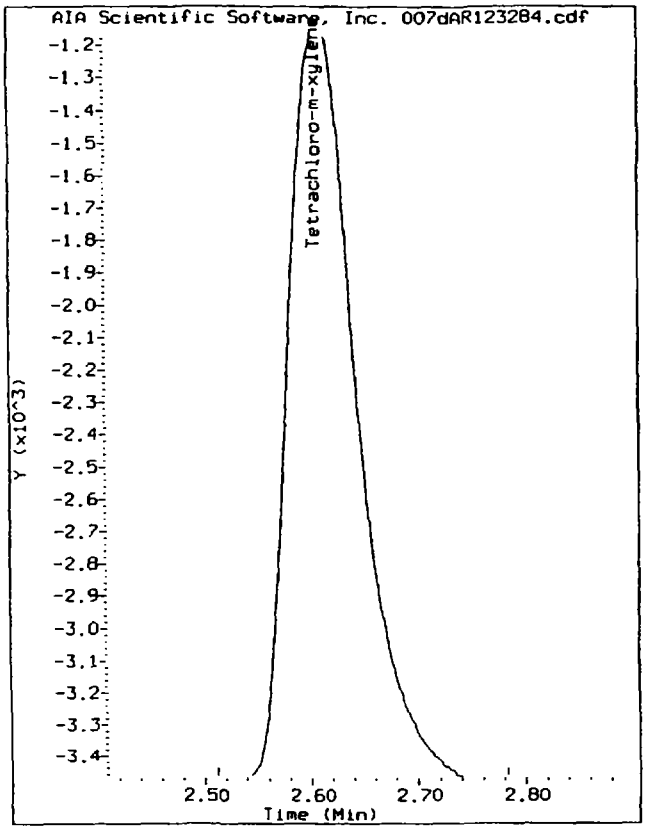
Lab Smp Id : AR123284 Client Smp Id : AR123284
Sample Type : INITIAL CAL: Level 2 Sublist : AR1232
Run Date : 30-SEP-2005 19:15 Inst ID : TRACEGC80
Operator : 2512
Method : /chem/tracegc80.i/d050930.b/2ulOLM04_clpestv6.m
Misc. Info : None

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
0.12			1025					
0.56			1735					
0.59			1490					
0.70			5256					
0.88			220					
1.02			209					
1.26			365					
1.47			446					
1.71			398					
1.91			779					
2.61	2.55	2.65	10687	513950	Tetrachloro-m-xylene	0.020000		M
2.94			461					
3.24	3.17	3.31	1064	10630	Aroclor-1232 Peak 1	0.100000	10630	M
3.88	3.81	3.95	466	4660	Aroclor-1232 Peak 2	0.100000	4660.000	M
4.22			417					
4.63			218					
4.75	4.68	4.82	1767	17660	Aroclor-1232 Peak 3	0.100000	17660	
5.01	4.94	5.08	712	7120	Aroclor-1232 Peak 4	0.100000	7120.000	
5.12			519					
5.42			322					
5.85			546					
6.02			413					
6.54			279					
6.73			422					
6.76	6.69	6.83	572	5720	Aroclor-1232 Peak 5	0.100000	5720.000	M
7.08			346					
7.17			727					
7.32			460					
7.47			260					
8.01			124					
9.03			90					
11.08			91					
14.09	13.99	14.19	13528	615700	Decachlorobiphenyl	0.040000		

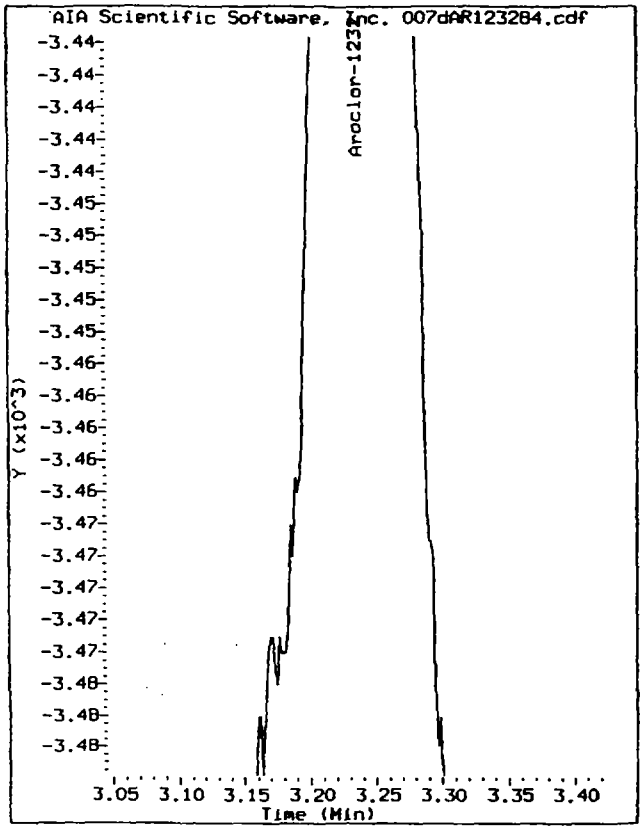
Cedar

TAJ 10/4/05

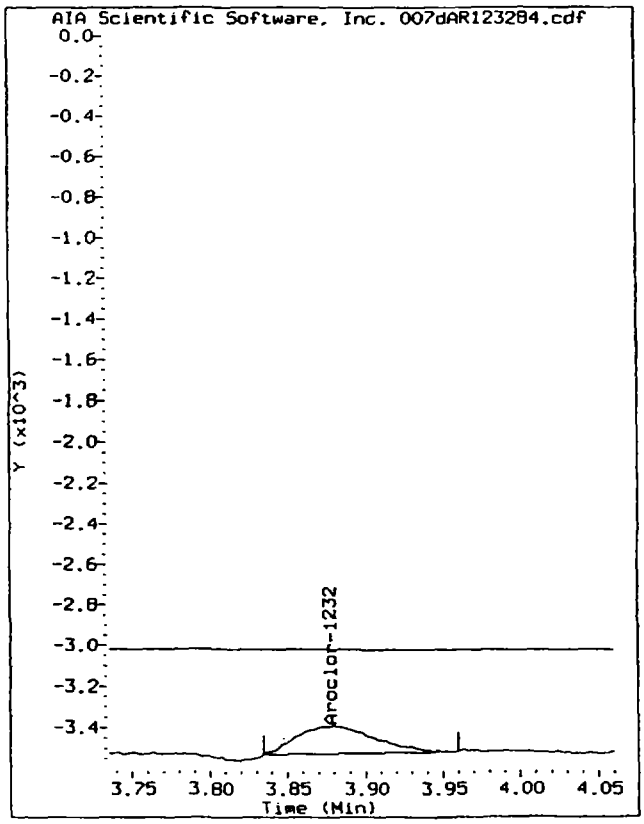
Manually Integrated Peaks



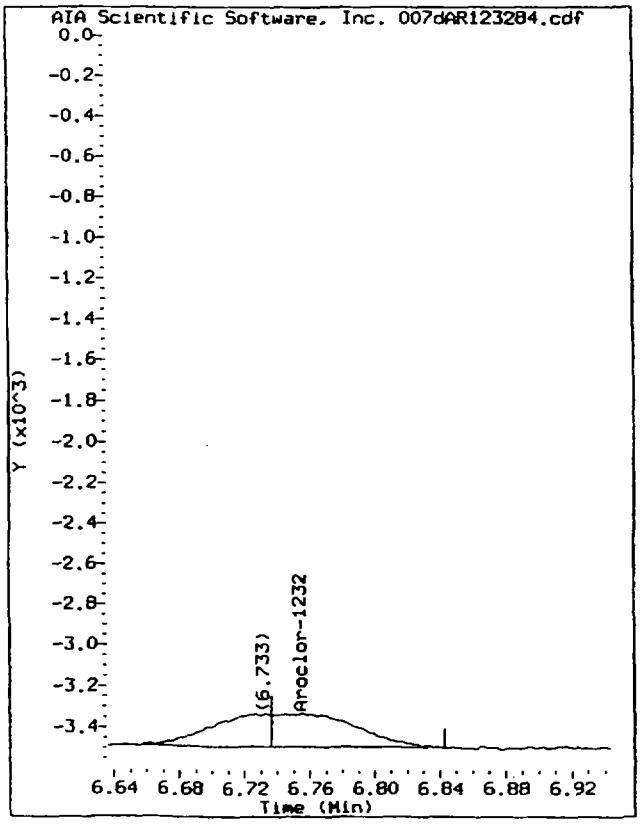
Start: 2.51 Stop: 2.78



Start: 3.15 Stop: 3.33

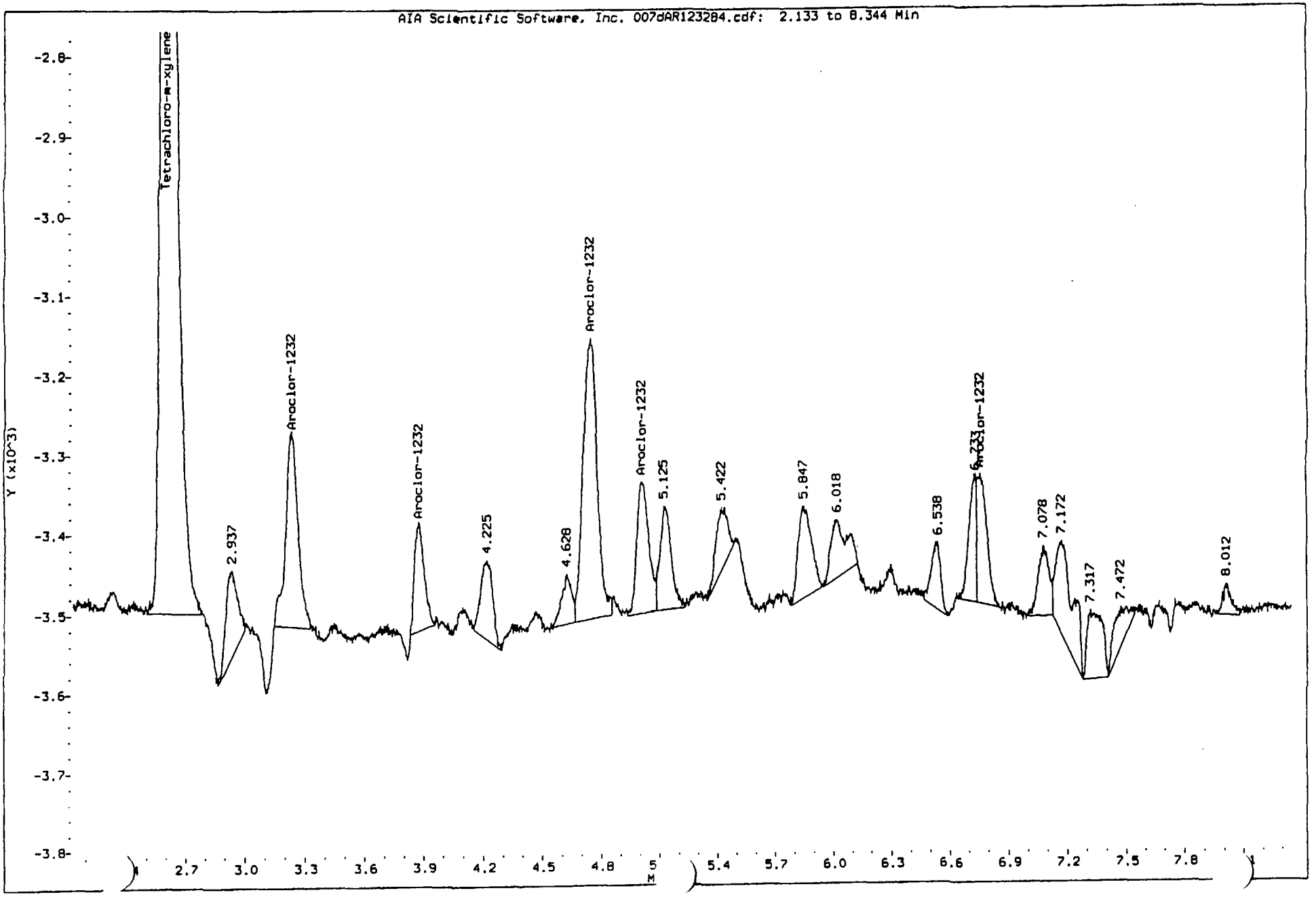


Start: 3.84 Stop: 3.96



Start: 6.74 Stop: 6.84

Data File: /chem/tracegc80.i/d050930.b/007dAR123284.d/007dAR123284.cdf
Injection Date: 30-SEP-2005 19:15
Instrument: tracegc80.i
Client Sample ID: AR123284



Data File: /chem/tracego80.i/d050930.b/008dAR124284.d

Date : 30-SEP-2005 19:37

Client ID: AR124284

Sample Info: AR124284

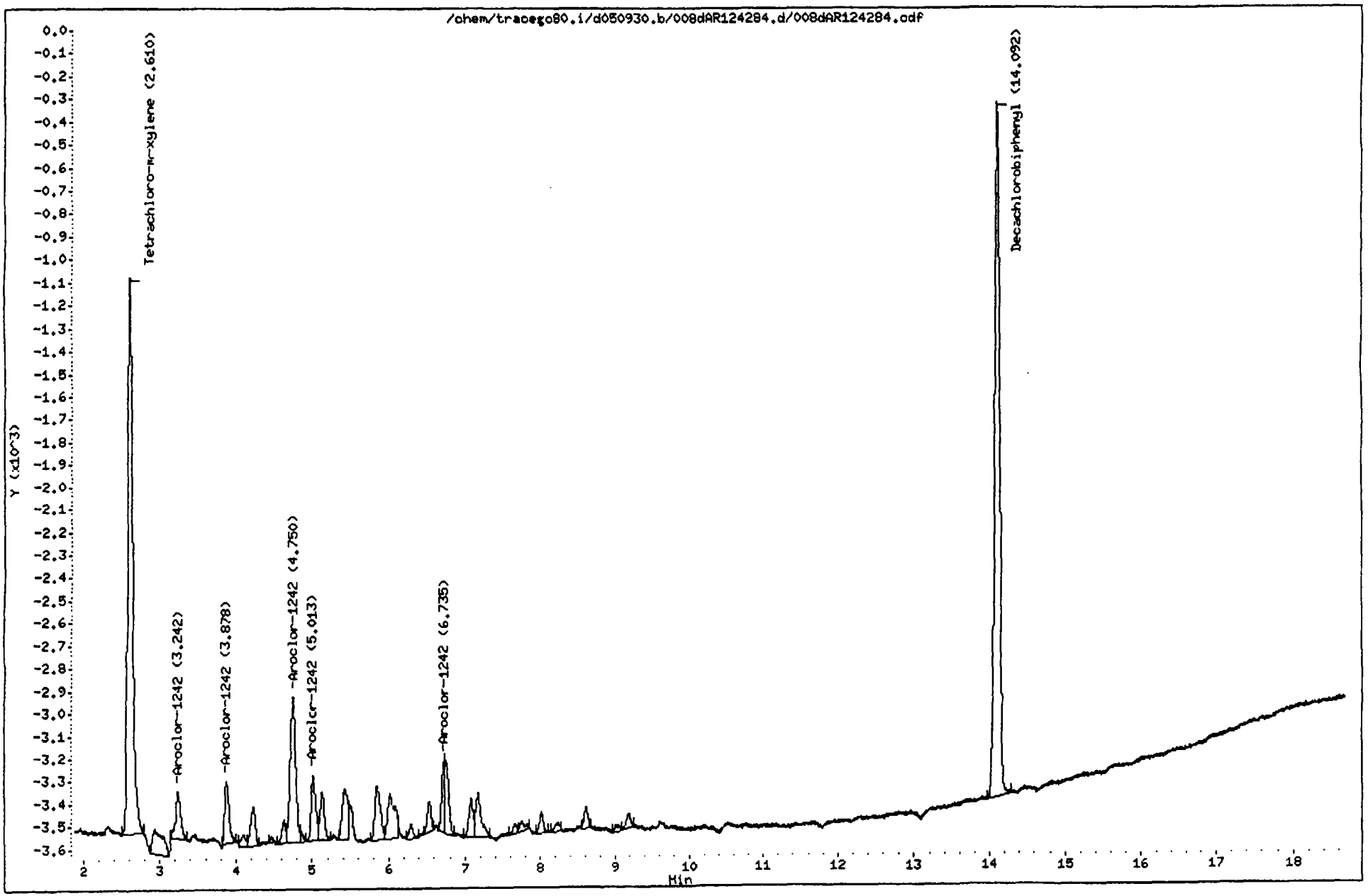
Volume Injected (uL): 1.0

Column phase: clpest

Instrument: tracego80.i

Operator: 2512

Column diameter: 0.53



CompuChem Environmental Corporation

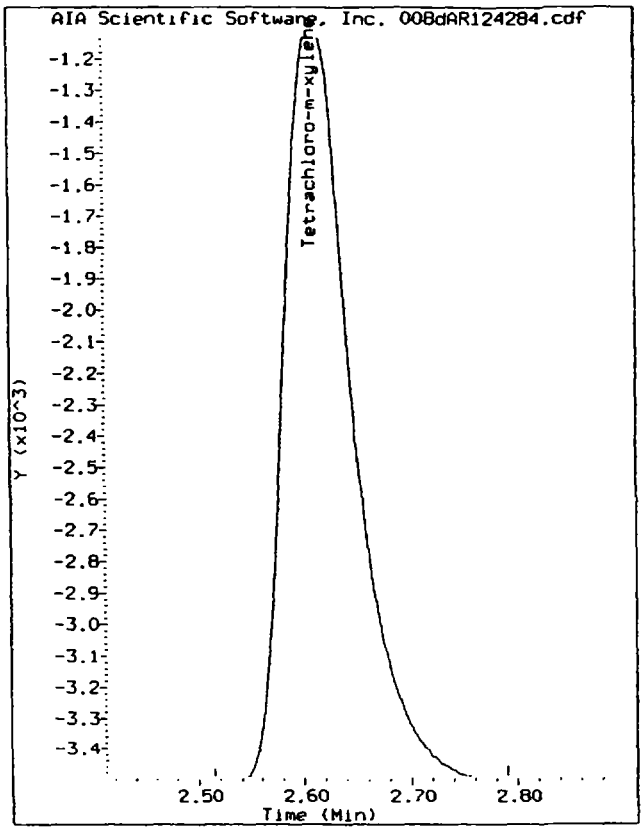
Lab Smp Id : AR124284 Client Smp Id : AR124284
Sample Type : INITIAL CAL: Level 2 Sublist : AR1242
Date : 30-SEP-2005 19:37 Inst ID : TRACEGC80
Operator : 2512
Method : /chem/tracegc80.i/d050930.b/2ulOLM04_clpestv6.m
Misc. Info : None

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
0.12			2728					
0.56			5479					
0.59			3005					
0.70			5138					
0.90			293					
1.02			400					
1.26			1442					
1.46			674					
1.87			99					
2.61	2.55	2.65	11078	513950	Tetrachloro-m-xylene	0.020000		M 2
2.94			1002					
3.24	3.17	3.31	970	9700	Aroclor-1242 Peak 1	0.100000	9700.000	M 2
3.88	3.81	3.95	1113	11120	Aroclor-1242 Peak 2	0.100000	11120	M 2
4.11			246					
4.22			798					
4.47			114					
4.63			350					
4.75	4.68	4.82	3207	32070	Aroclor-1242 Peak 3	0.100000	32070	M 2
4.87			124					
5.01	4.94	5.08	1212	12110	Aroclor-1242 Peak 4	0.100000	12110	
5.14			833					
5.43			1180					
5.84			1220					
2			1320					
.9			231					
6.54			467					
6.74	6.67	6.81	891	8900	Aroclor-1242 Peak 5	0.100000	8900.000	M 2
6.75			1070					
7.08			663					
7.17			1008					
7.66			145					
7.75			210					
8.02			347					
8.21			173					
8.61			337					
9.03			126					
9.19			250					
14.09	13.99	14.19	13974	615700	Decachlorobiphenyl	0.040000		

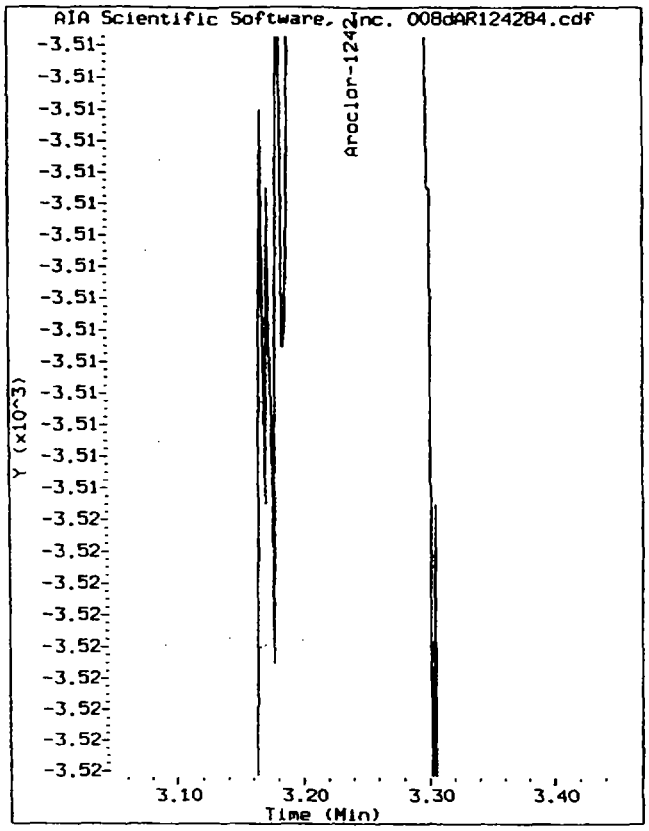
C 2316

TAJ 10/4/05

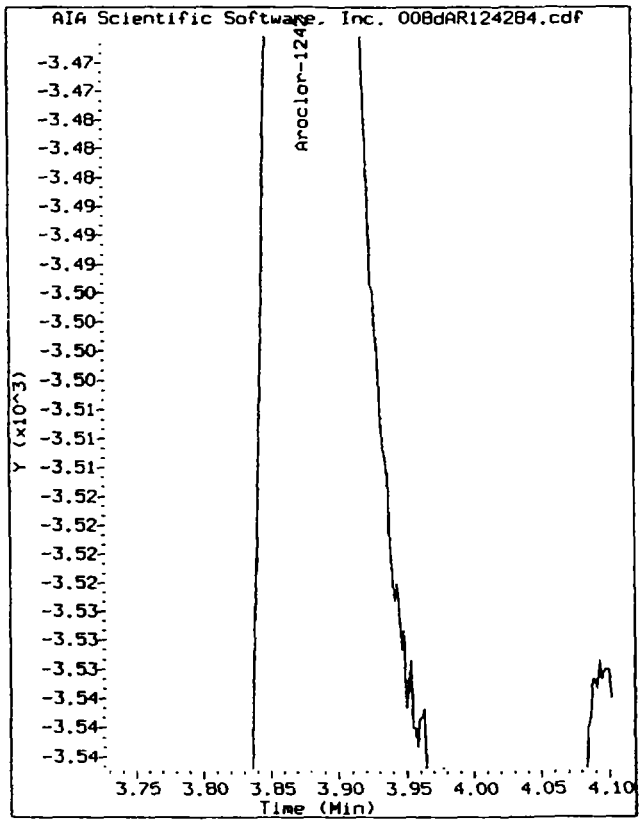
Manually Integrated Peaks



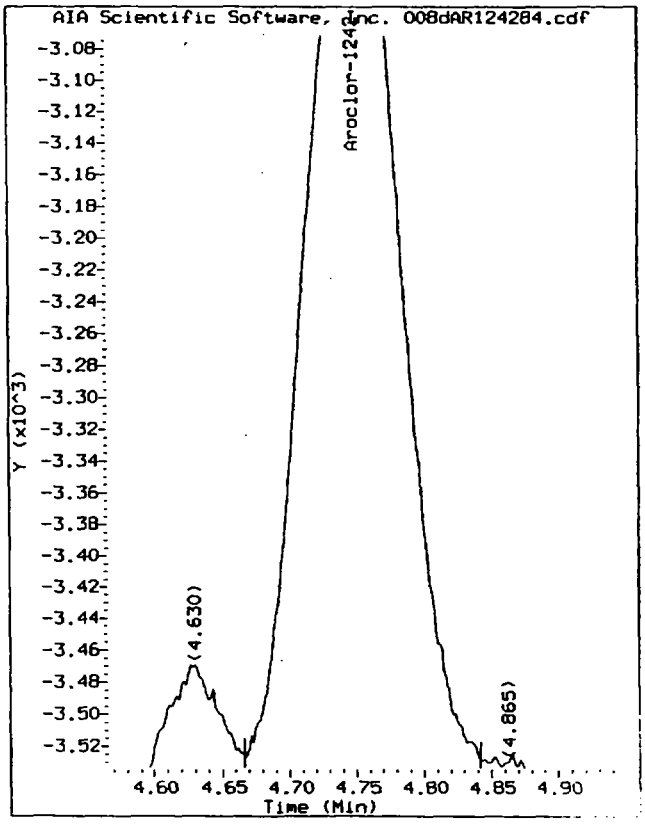
Start: 2.52 Stop: 2.79



Start: 3.15 Stop: 3.35

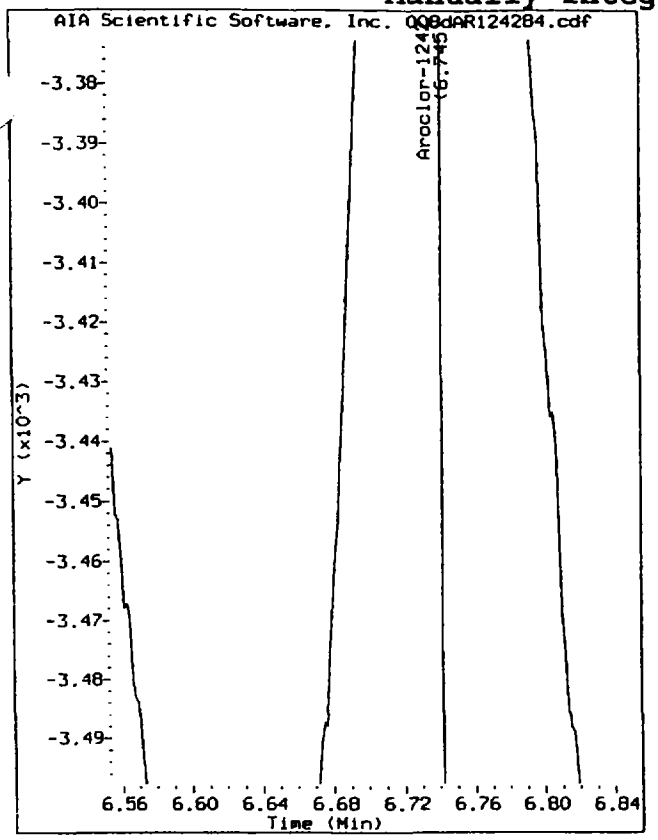


Start: 3.83 Stop: 4.00



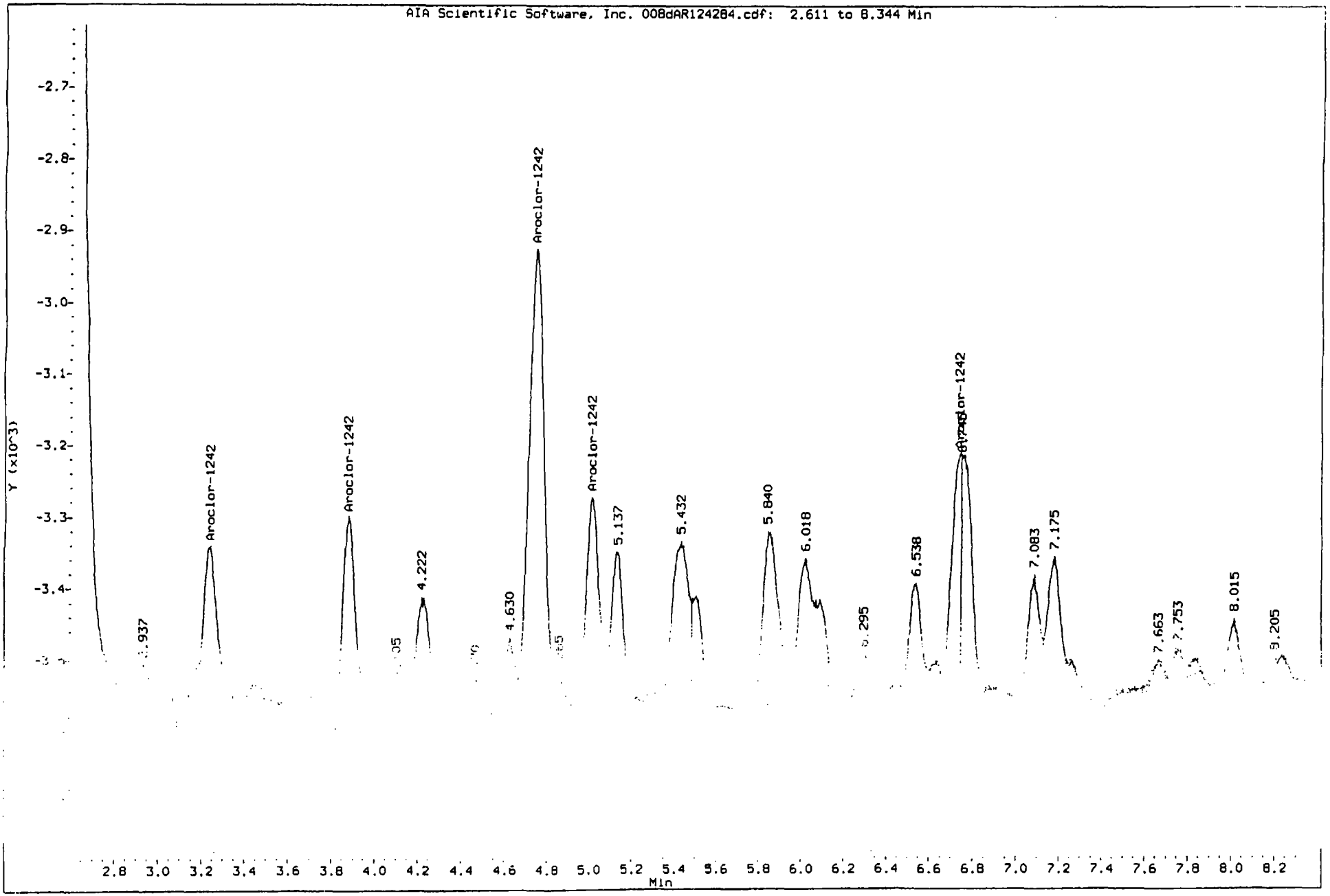
Start: 4.67 Stop: 4.84

Manually Integrated Peaks



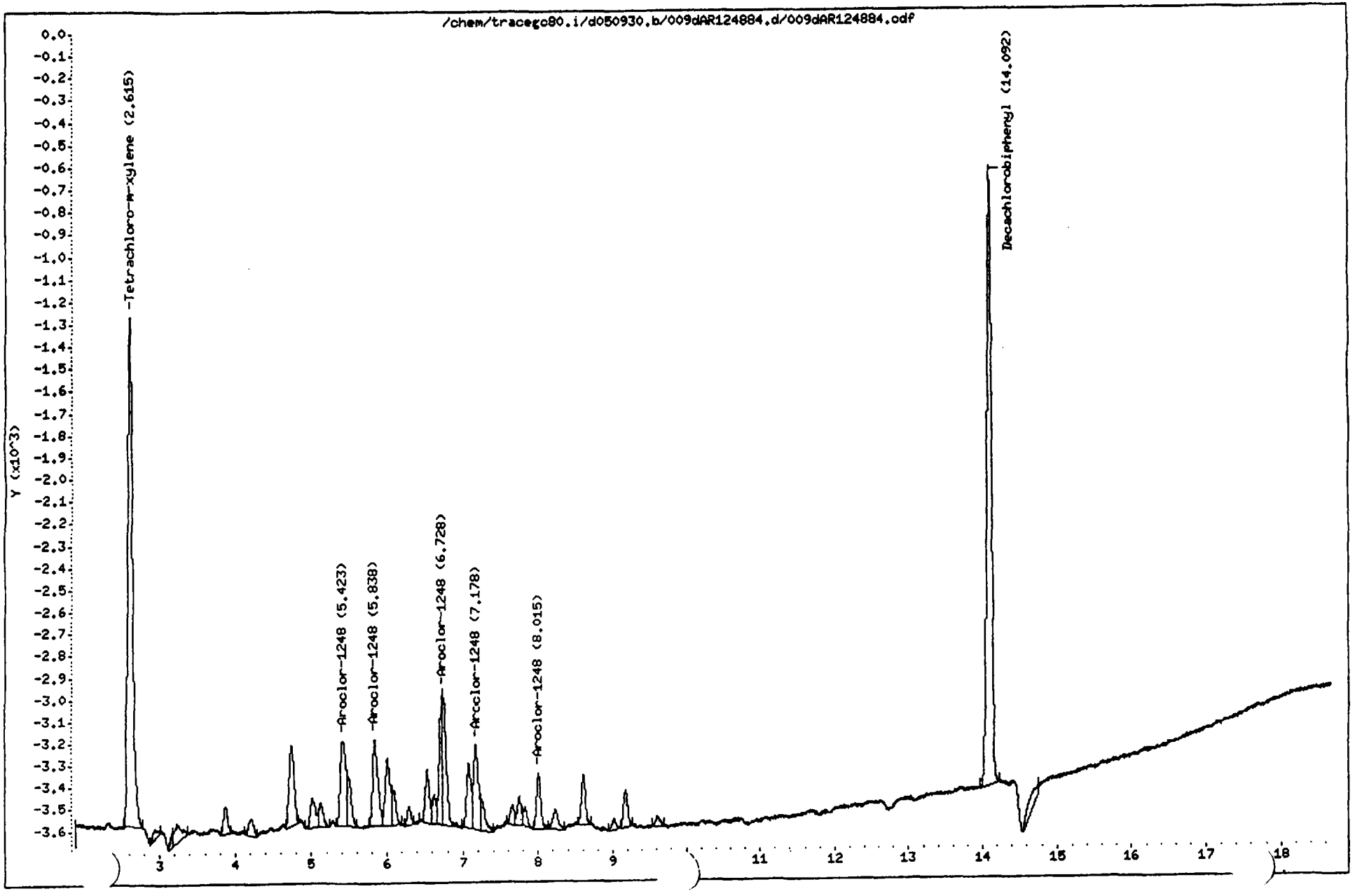
Start: 6.66 Stop: 6.74

Data File: /chem/tracegc80.i/d050930.b/008dAR124284.d/008dAR124284.cdf
Injection Date: 30-SEP-2005 19:37
Instrument: tracegc80.i
Client Sample ID: AR124284



Data File: /chem/tracegc80.i/d050930.b/009dAR124884.d
Date : 30-SEP-2005 19:59
Client ID: AR124884
Sample Info: AR124884
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc80.i
Operator: 2512
Column diameter: 0.53



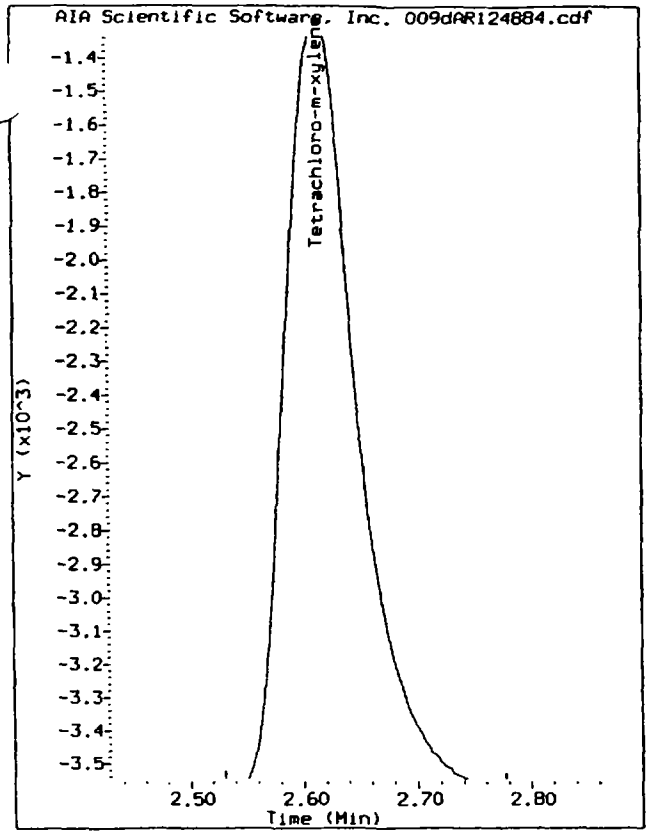
CompuChem Environmental Corporation

Lab Smp Id : AR124884 Client Smp Id : AR124884
Sample Type : INITIAL CAL: Level 2 Sublist : AR1248
Inj Date : 30-SEP-2005 19:59 Inst ID : TRACEGC80
Operator : 2512
Method : /chem/tracegc80.i/d050930.b/2ulOLM04_clpestv6.m
Misc. Info : None

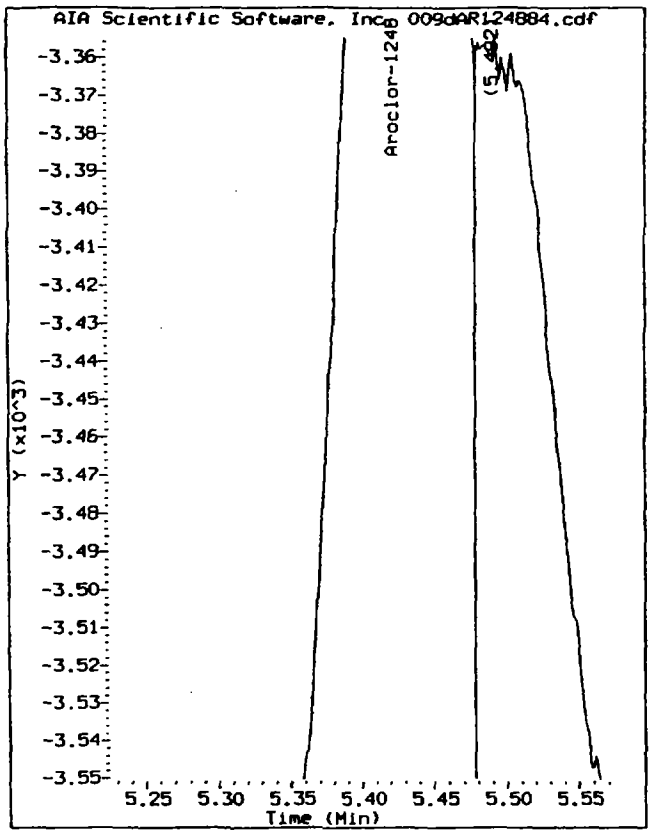
RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
0.13			2136					
0.59			16742					
0.70			4547					
0.89			194					
1.02			467					
1.26			207					
1.47			195					
1.88			197					
2.62	2.55	2.65	10201	513950	Tetrachloro-m-xylene	0.020000		M2
2.95			206					
3.17			135					
3.24			558					
3.88			478					
4.22			351					
4.75			1738					
5.02			698					
5.13			451					
5.42	5.35	5.49	2014	20140	Aroclor-1248 Peak 1	0.100000	20140	M2
5.49			869					
5.84	5.77	5.91	1935	19340	Aroclor-1248 Peak 2	0.100000	19340	M
6.01			1387					
6.09			581					
6.29			319					
6.53			930					
6.63			459					
6.73	6.66	6.80	1915	19140	Aroclor-1248 Peak 3	0.100000	19140	M2
6.74			1964					
7.08			1194					
7.18	7.11	7.25	1811	18100	Aroclor-1248 Peak 4	0.100000	18100	M
7.25			586					
7.66			334					
7.75			514					
7.83			286					
8.02	7.95	8.09	1057	10560	Aroclor-1248 Peak 5	0.100000	10560	
8.23			467					
8.61			881					
9.02			215					
9.18			680					
9.60			239					
14.09	13.99	14.19	12641	615700	Decachlorobiphenyl	0.040000		
14.74			668					

TAJ 10/4/05

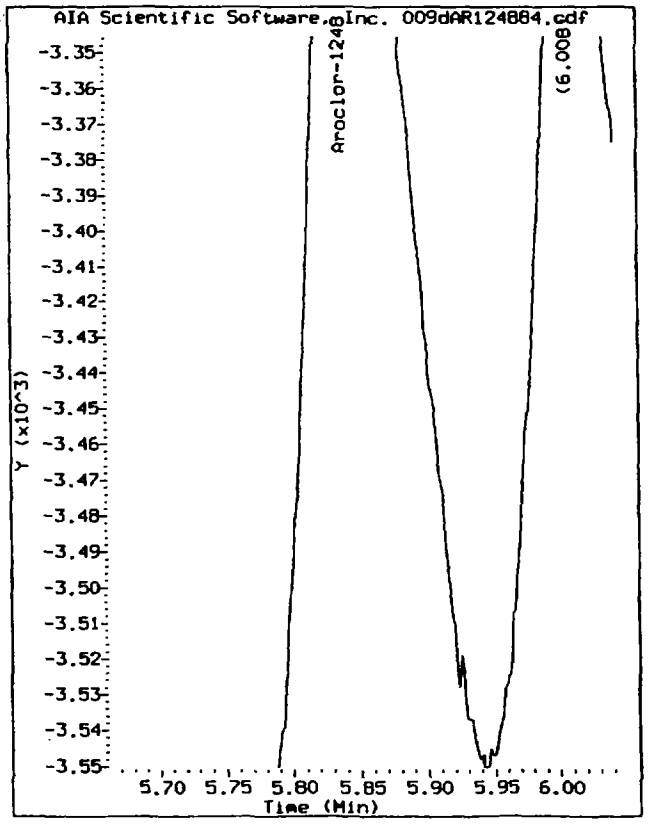
Manually Integrated Peaks



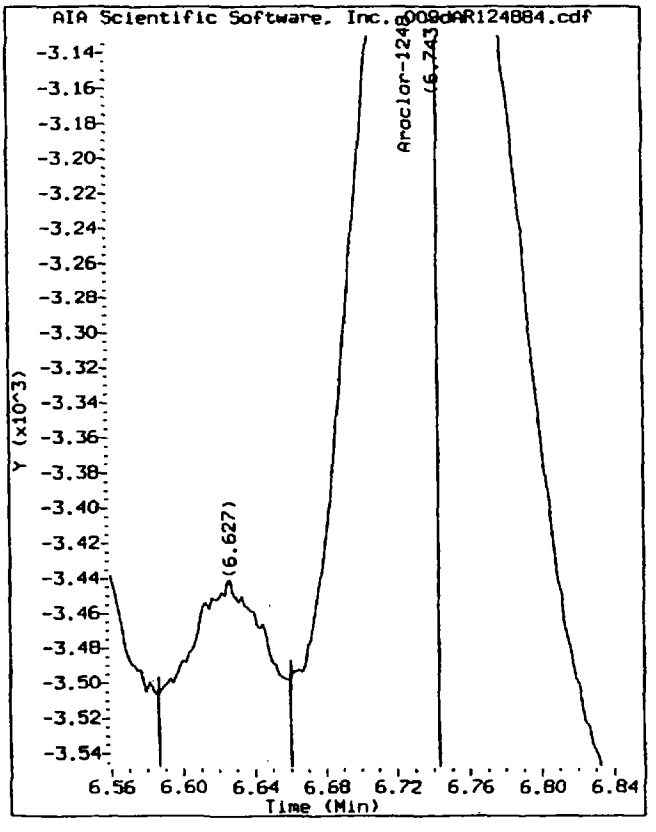
Start: 2.53 Stop: 2.78



Start: 5.33 Stop: 5.48

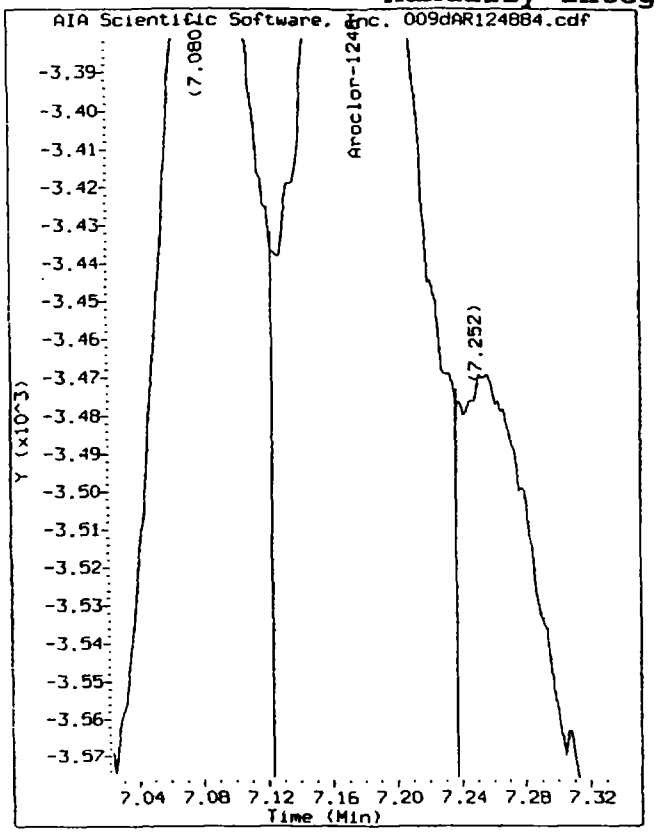


Start: 5.76 Stop: 5.94



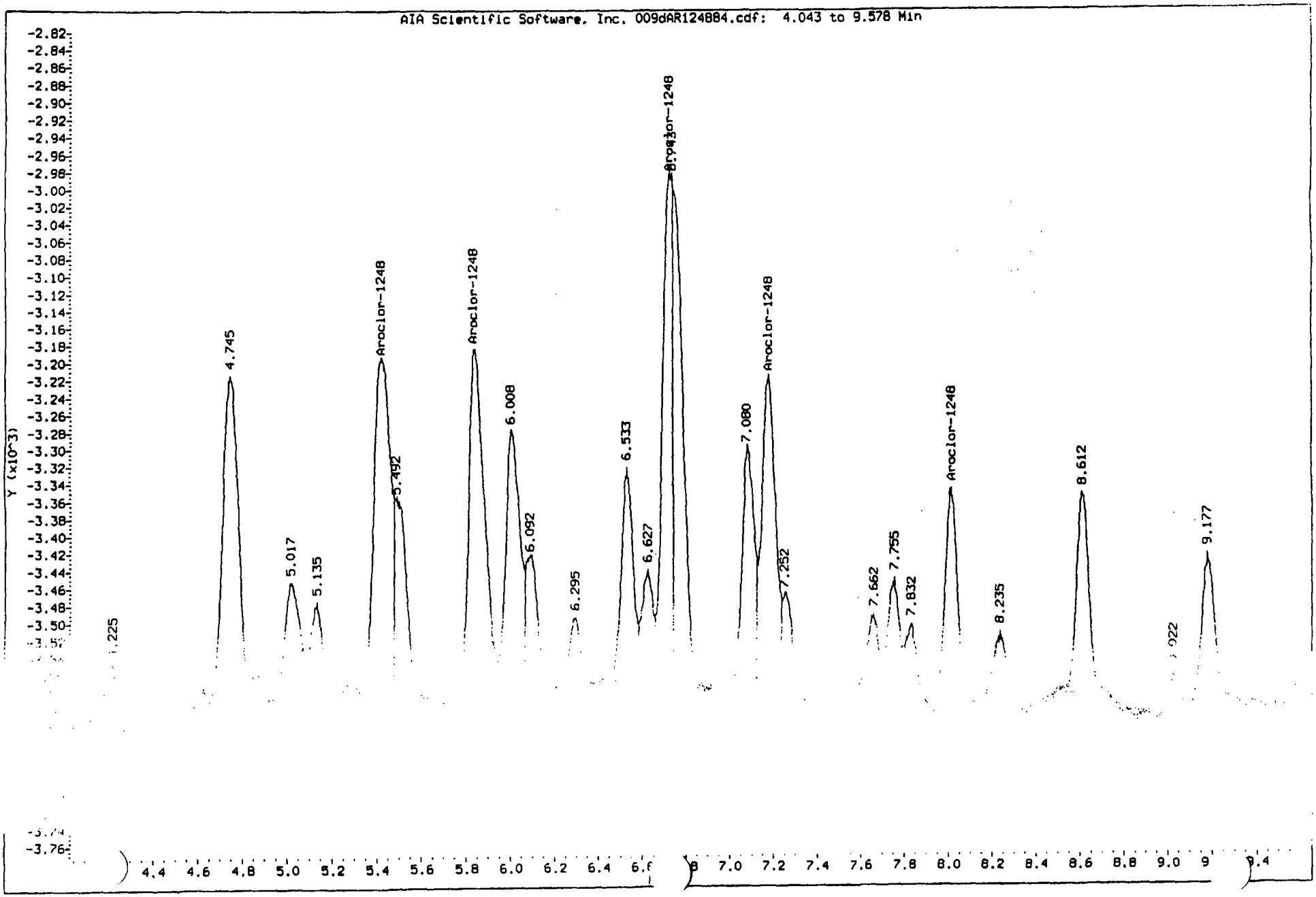
Start: 6.66 Stop: 6.74

Manually Integrated Peaks



Start: 7.12 Stop: 7.24

Data File: /chem/tracegc80.i/d050930.b/009dAR124884.d/009dAR124884.cdf
Injection Date: 30-SEP-2005 19:59
Instrument: tracegc80.i
Client Sample ID: AR124884



Data File: /chem/tracegc80.i/d050930.b/010dAR125484.d

Date : 30-SEP-2005 20:20

Client ID: AR125484

Instrument: tracegc80.i

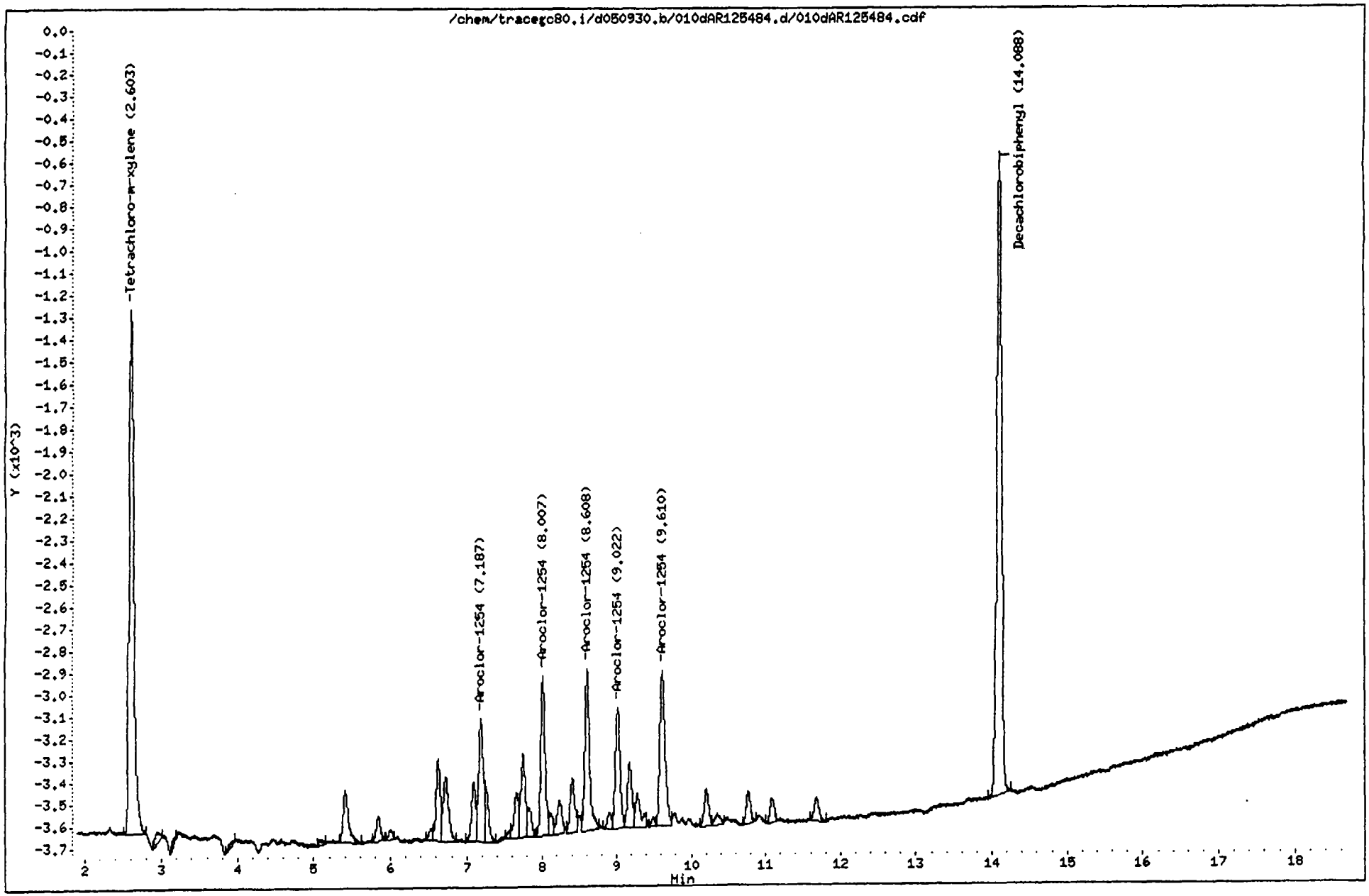
Sample Info: AR125484

Volume Injected (uL): 1.0

Operator: 2512

Column phase: clpest

Column diameter: 0.53



CompuChem Environmental Corporation

Lab Smp Id : AR125484 Client Smp Id : AR125484
Sample Type : INITIAL CAL: Level 2 Sublist : AR1254
Run Date : 30-SEP-2005 20:20 Inst ID : TRACEGC80
Operator : 2512
Method : /chem/tracegc80.i/d050930.b/2ulOLM04_clpestv6.m
Misc. Info : None

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
0.13			1067					
0.56			3623					
0.59			1037					
0.70			6516					
0.89			1057					
1.02			990					
1.28			492					
1.47			446					
1.71			421					
1.85			123					
2.60	2.55	2.65	10288	513950	Tetrachloro-m-xylene	0.020000		
2.95			208					
3.18			74					
3.95			101					
5.08			109					
5.41			1197					
5.84			462					
6.00			172					
6.53			190					
6.62			1432					
6.72			1463					
7.09			1071					
7.19	7.12	7.26	2373	23730	Aroclor-1254 Peak 1	0.100000	23730	M
7.5			868					
7.7			99					
7.66			871					
7.75			1672					
7.82			466					
8.01	7.94	8.08	2926	29260	Aroclor-1254 Peak 2	0.100000	29260	M
8.11			367					
8.24			741					
8.41			1112					
8.61	8.54	8.68	3316	33160	Aroclor-1254 Peak 3	0.100000	33160	
8.90			260					
9.02	8.95	9.09	2455	24540	Aroclor-1254 Peak 4	0.100000	24540	
9.18			1240					
9.28			780					
9.49			123					
9.61	9.54	9.68	3477	34760	Aroclor-1254 Peak 5	0.100000	34760	
10.20			694					
10.34			243					
10.77			612					

M_2

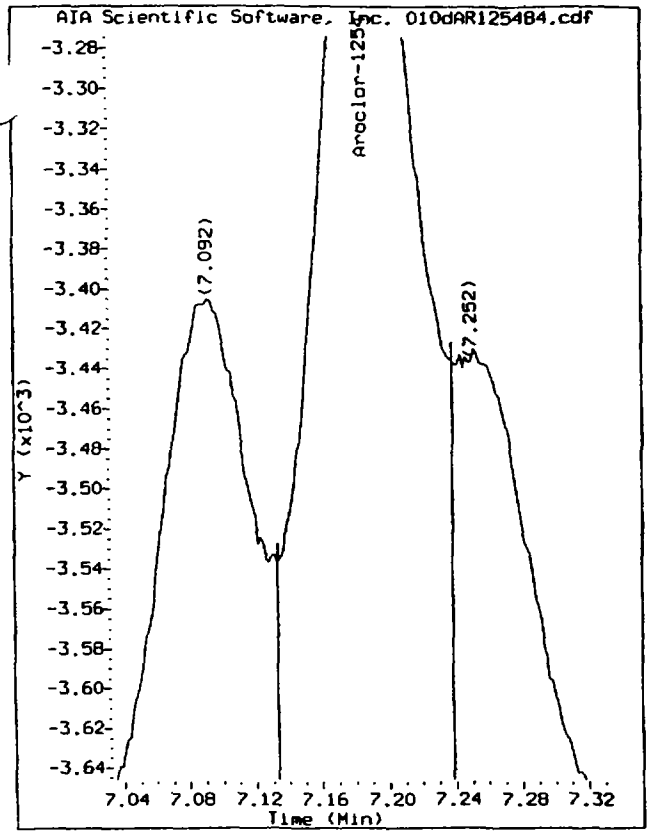
TAJ 10/4/05

CompuChem Environmental Corporation

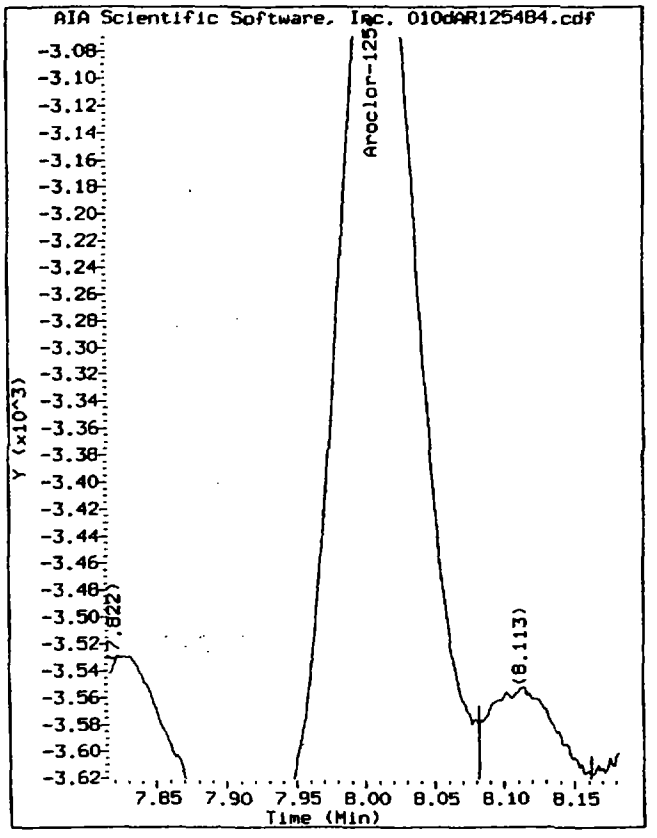
Lab Smp Id : AR125484 Client Smp Id : AR125484
Sample Type : INITIAL CAL: Level 2 Sublist : AR1254
Inj Date : 30-SEP-2005 20:20 Inst ID :
Operator : 2512
Method : /chem/tracegc80.i/d050930.b/2ul0LM04_clpestv6.m
Misc. Info : None

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
11.09		438					
11.68		488					
14.09	13.99 14.19	13182	615700	Decachlorobiphenyl	0.040000		

Manually Integrated Peaks

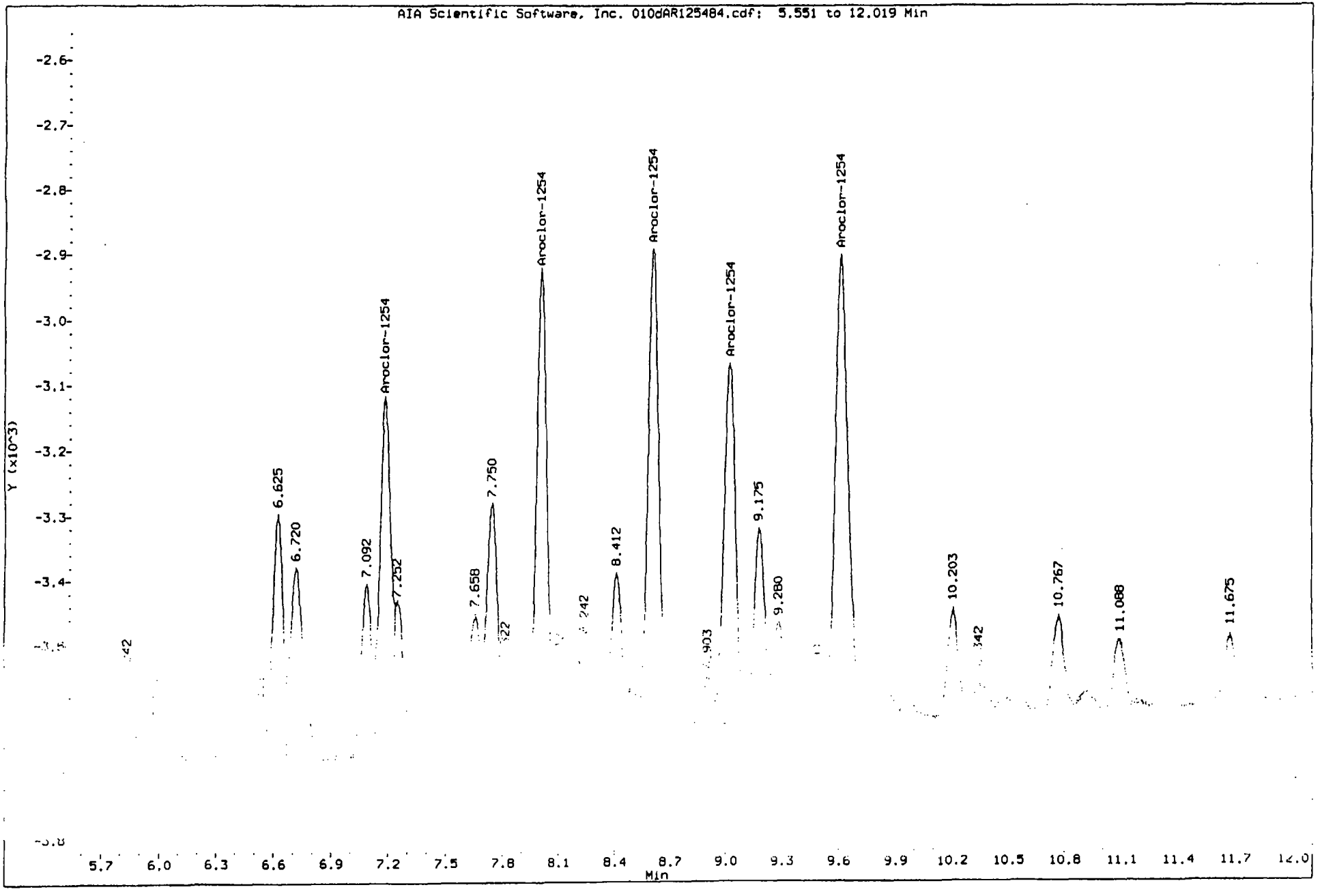


Start: 7.13 Stop: 7.24



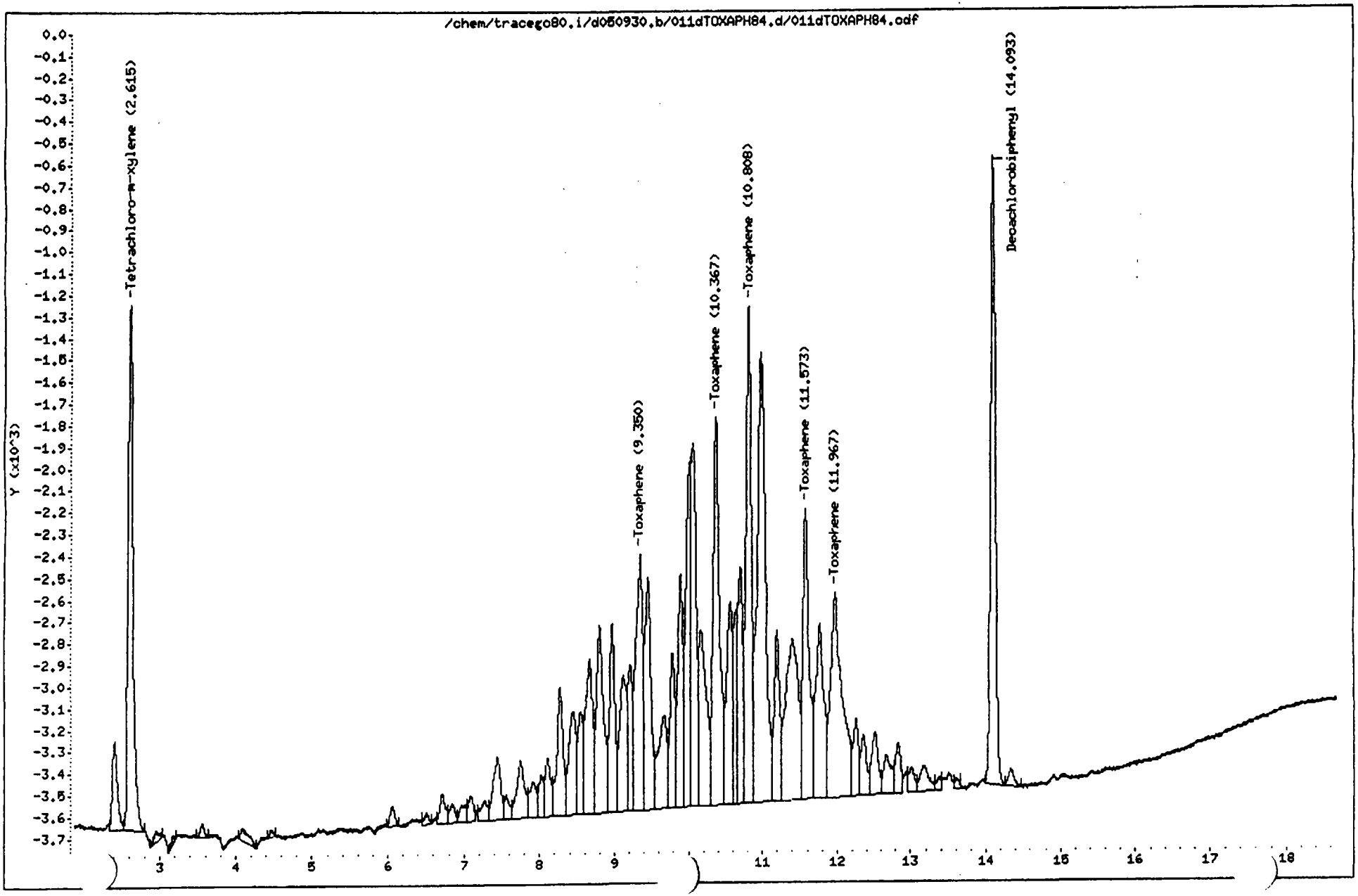
Start: 7.92 Stop: 8.08

Data File: /chem/tracegc80.i/d050930.b/010dAR125484.d/010dAR125484.cdf
Injection Date: 30-SEP-2005 20:20
Instrument: tracegc80.i
Client Sample ID: AR125484



Data File: /chem/tracego80.i/d050930.b/011dTOXAPH84.d
Date : 30-SEP-2005 20:42
Client ID: TOXAPH84
Sample Info: TOXAPH84
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracego80.i
Operator: 2512
Column diameter: 0.53



CompuChem Environmental Corporation

Lab Smp Id : TOXAPH84 Client Smp Id : TOXAPH84
Sample Type : INITIAL CAL: Level 2 Sublist : TOXAPH
Inj Date : 30-SEP-2005 20:42 Inst ID : TRACEGC80
Operator : 2512
Method : /chem/tracegc80.i/d050930.b/2ulOLM04_clpestv6.m
Misc. Info : None

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
0.14			994					
0.60			14493					
0.70			5104					
1.02			199					
1.26			494					
1.46			399					
1.72			395					
1.86			72					
2.42			1882					
2.62	2.55	2.65	10692	513950	Tetrachloro-m-xylene	0.020000		
2.94			278					
3.18			116					
3.56			239					
4.09			459					
4.47			113					
6.07			391					
6.51			235					
6.72			700					
6.85			434					
6.97			472					
7.10			581					
7.27			583					
7.44			1967					
7.57			563					
7.74			1969					
7.92			1051					
8.03			864					
8.11			1337					
8.28			3600					
8.44			3302					
8.55			2058					
8.68			4898					
8.81			5868					
8.98			4488					
9.12			4219					
9.22			3108					
9.35	9.28	9.42	7689	15378	Toxaphene Peak 1	0.500000	15378	
9.46			6129					
9.66			3464					
9.78			3678					
9.89			4973					
10.01			6774					

TAJ 10/4/05

CompuChem Environmental Corporation

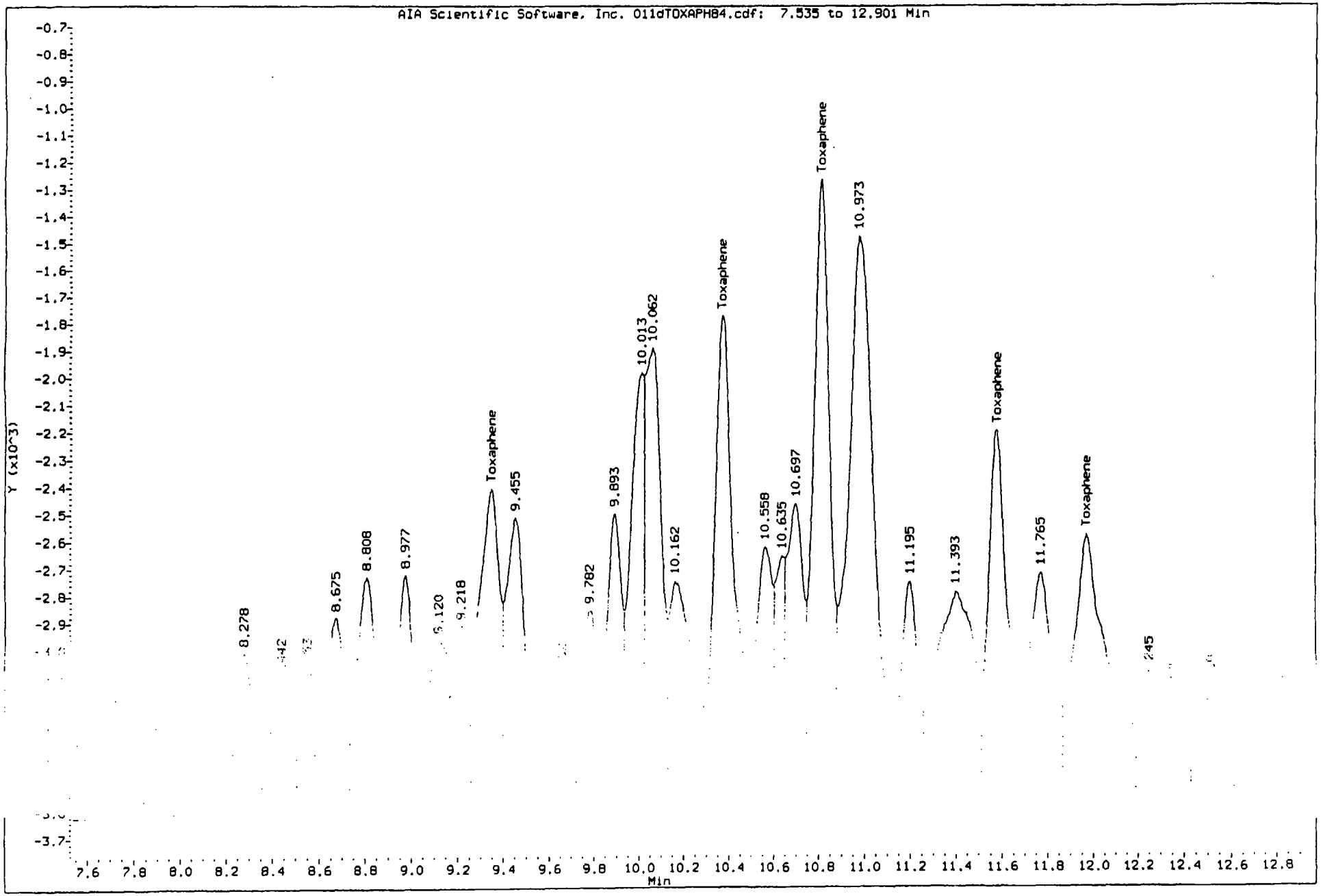
Lab Smp Id : TOXAPH84 Client Smp Id : TOXAPH84
Sample Type : INITIAL CAL: Level 2 Sublist : TOXAPH
Date : 30-SEP-2005 20:42 Inst ID :
Operator : 2512
Method : /chem/tracegc80.i/d050930.b/2ulOLM04_clpestv6.m
Misc. Info : None

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
10.06		8439					
10.16		6011					
10.37	10.30 10.44	11017	22034	Toxaphene Peak 2	0.500000	22034	
10.56		5160					
10.63		2482					
10.70		5527					
10.81	10.74 10.88	11607	23214	Toxaphene Peak 3	0.500000	23214	
10.97		16467					
11.20		4212					
11.39		8729					
11.57	11.50 11.64	7814	15628	Toxaphene Peak 4	0.500000	15628	
11.77		6543					
11.97	11.90 12.04	10129	20256	Toxaphene Peak 5	0.500000	20256	
12.24		1823					
12.35		1488					
12.51		1878					
12.66		1347					
12.83		1191					
13.01		630					
13.17		984					
13.37		268					
13.61		203					
14.09	13.99 14.19	13251	615700	Decachlorobiphenyl	0.040000		
	3	421					

Mz

TAJ 10/4/05

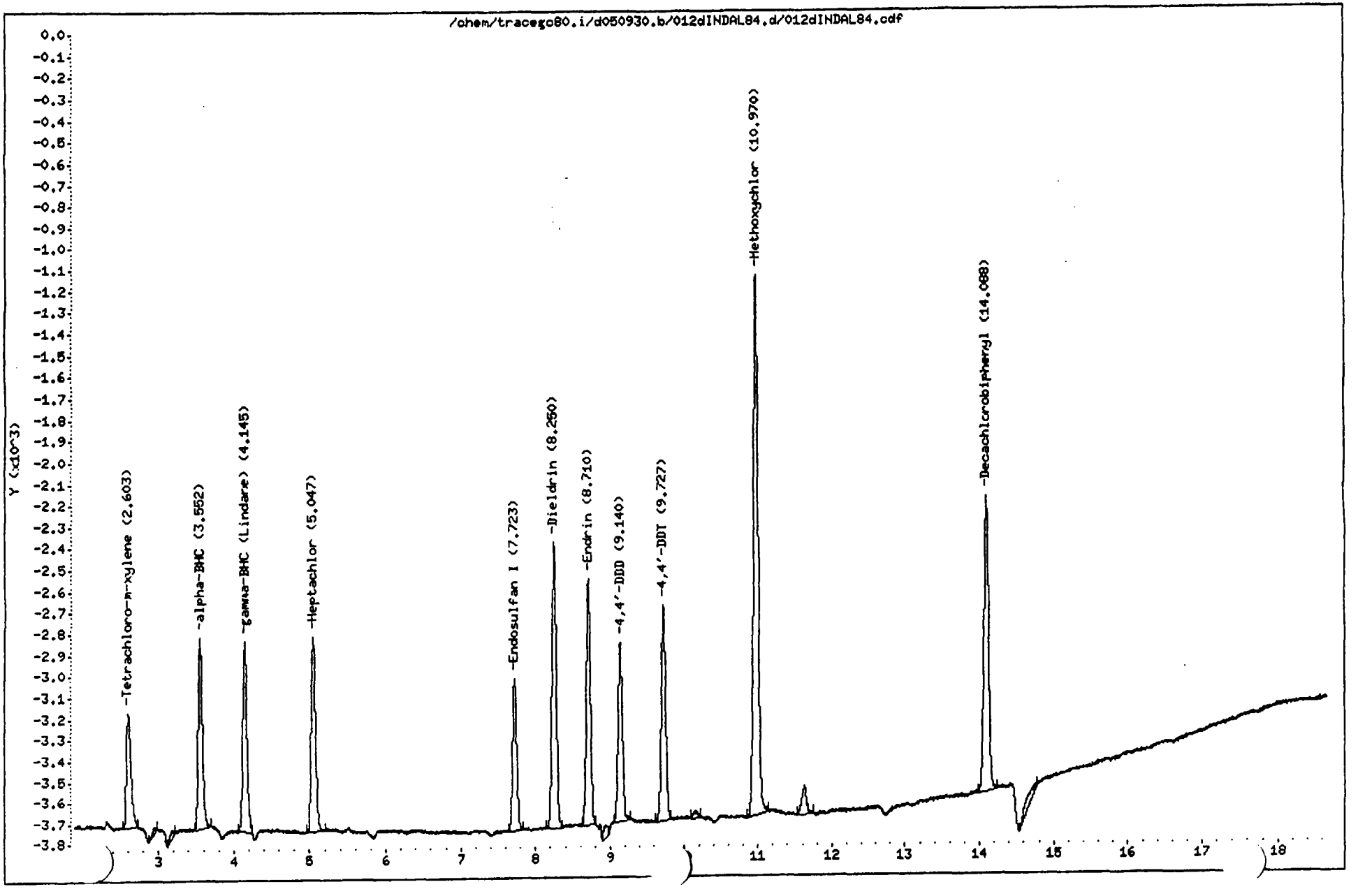
Data File: /chem/tracegc80.i/d050930.b/011dTOXAPH84.d/011dTOXAPH84.cdf
Injection Date: 30-SEP-2005 20:42
Instrument: tracegc80.i
Client Sample ID: TOXAPH84



Data File: /chem/tracego80.i/d050930.b/012dINDAL84.d
Date : 30-SEP-2005 21:04
Client ID: INDAL84
Sample Info: INDAL84
Volume Injected (uL): 1.0
Column phase: olpest

Instrument: tracego80.i

Operator: 2512
Column diameter: 0.53



CompuChem Environmental Corporation

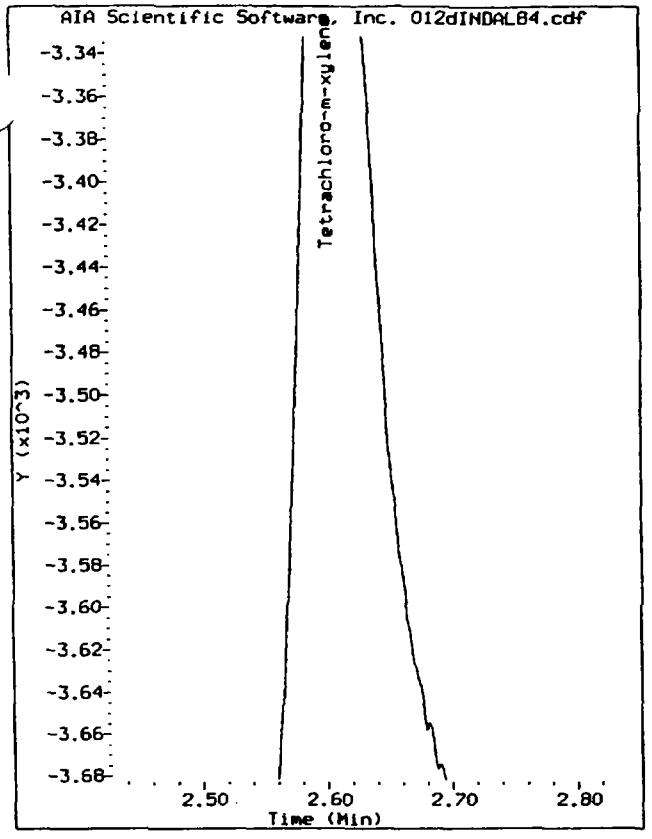
Lab Smp Id : INDAL84 Client Smp Id : INDAL84
Sample Type : INITIAL CAL: Level 1 Sublist : INDA
Inj Date : 30-SEP-2005 21:04 Inst ID : TRACEGC80
Operator : 2512
Method : /chem/tracegc80.i/d050930.b/2ulOLM04_clpestv6.m
Misc. Info : None

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
0.13			978					
0.56			2716					
0.59			879					
0.70			5921					
0.89			808					
1.03			612					
1.26			395					
1.47			192					
1.71			365					
2.60	2.55	2.65	2302	513950	Tetrachloro-m-xylene	0.005000	460400	M
2.94			121					
3.18			106					
3.55	3.50	3.60	3409	816650	alpha-BHC	0.005000	681800	
4.14	4.09	4.19	3343	759250	gamma-BHC (Lindane)	0.005000	668400	M
5.05	5.00	5.10	3647	784550	Heptachlor	0.005000	729400	
7.72	7.65	7.79	2804	629050	Endosulfan I	0.005000	560800	
8.25	8.18	8.32	5285	586725	Dieldrin	0.010000	528400	
8.71	8.64	8.78	4476	485700	Endrin	0.010000	447600	M
8.93			215					
9.14	9.07	9.21	3455	411450	4,4'-DDD	0.010000	345400	M
9.73	9.66	9.80	4179	457225	4,4'-DDT	0.010000	417900	
10.16			131					
10.97	10.90	11.04	10911	222300	Methoxychlor	0.050000	218200	
11.63			603					
14.09	13.99	14.19	6203	615700	Decachlorobiphenyl	0.010000	620200	
14.74			515					

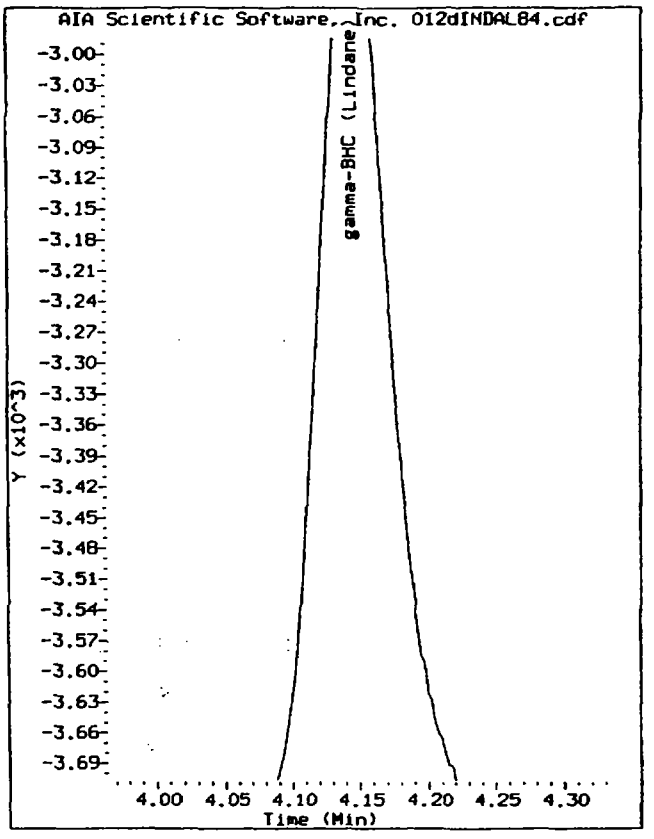
C c-136

TAJ 10/4/05

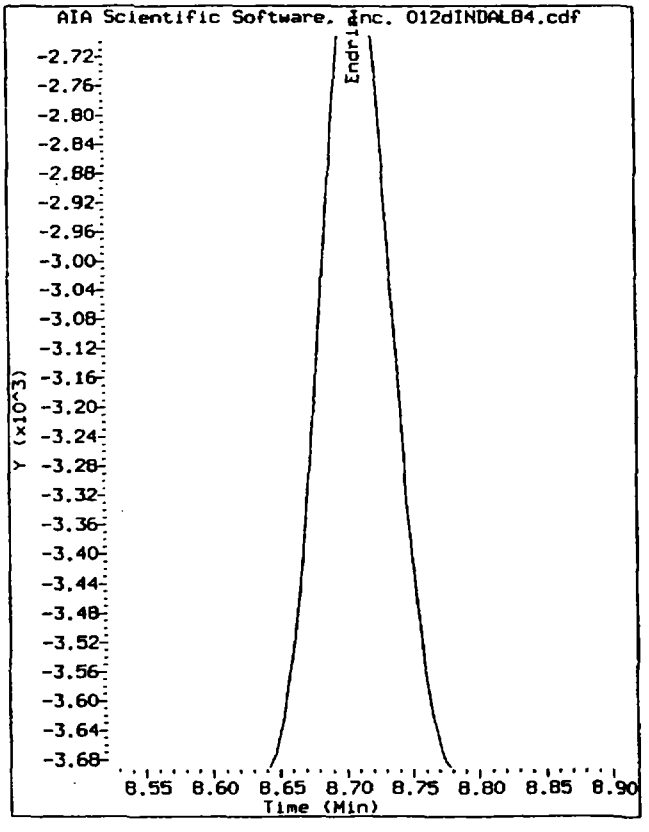
Manually Integrated Peaks



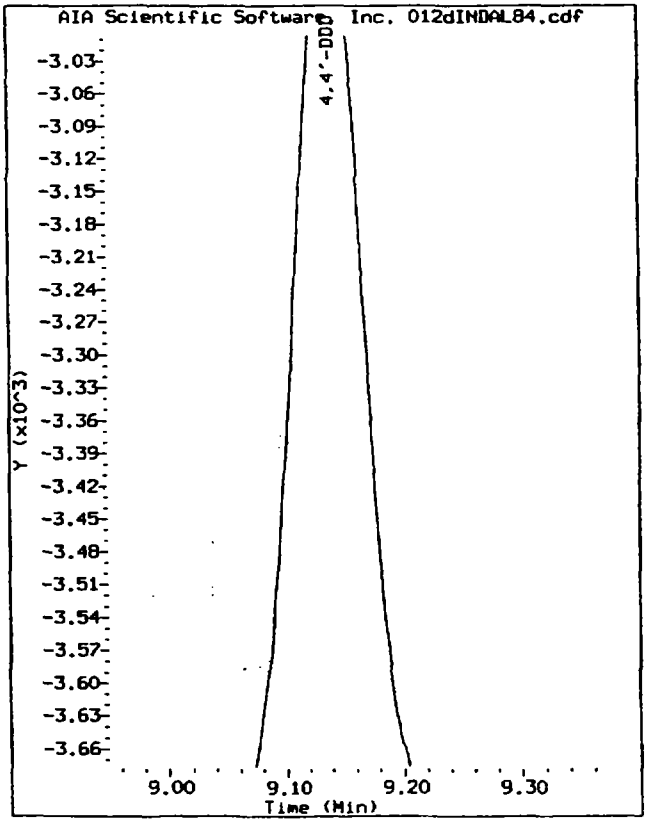
Start: 2.53 Stop: 2.73



Start: 4.07 Stop: 4.24



Start: 8.62 Stop: 8.80



Start: 9.05 Stop: 9.28

Data File: /chem/tracego80.i/d050930.b/013dINDBL84.d

Date : 30-SEP-2005 21:25

Client ID: INDBL84

Instrument: tracego80.i

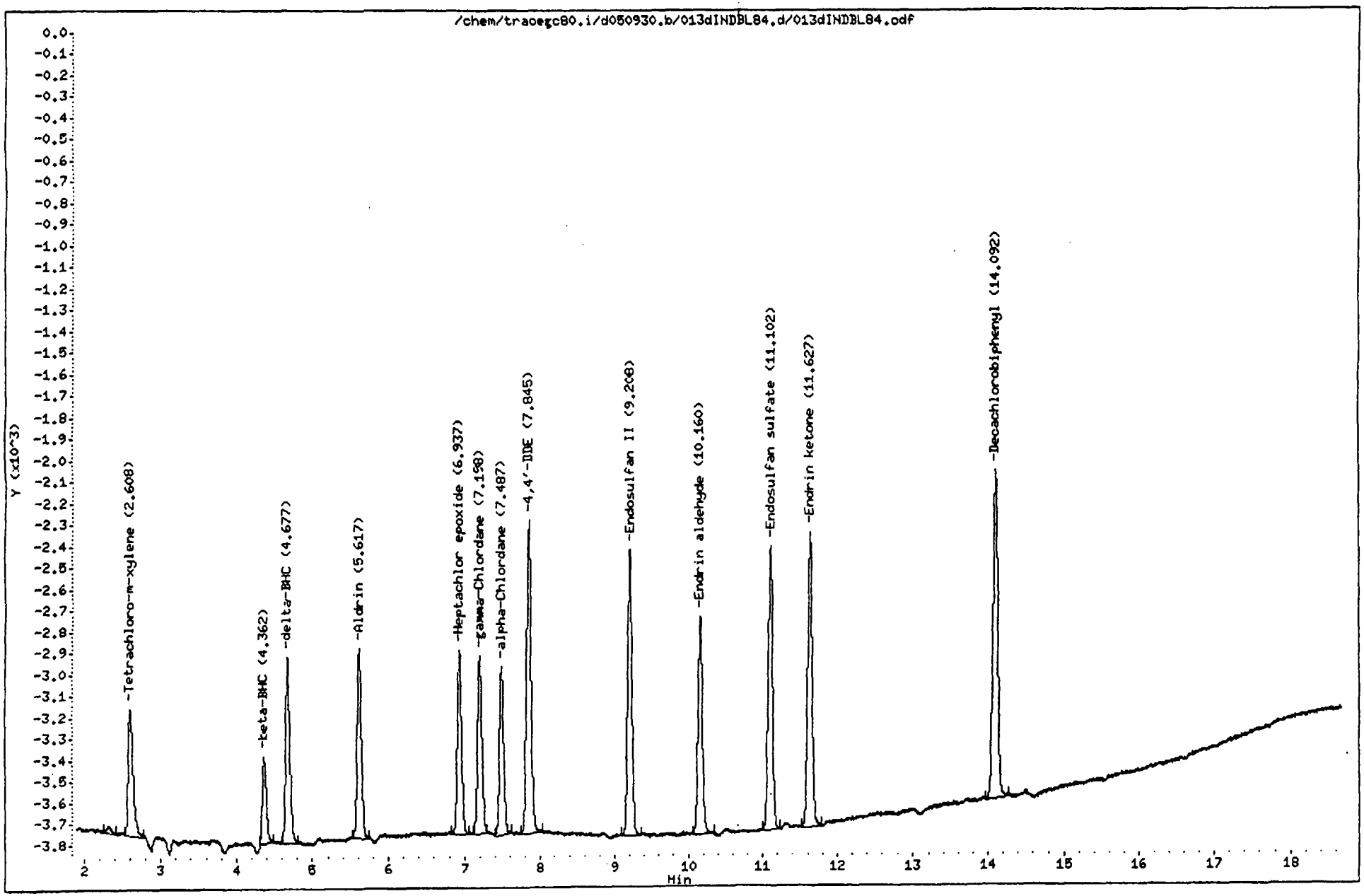
Sample Info: INDBL84

Volume Injected (uL): 1.0

Operator: 2512

Column phase: clpest

Column diameter: 0.53



CompuChem Environmental Corporation

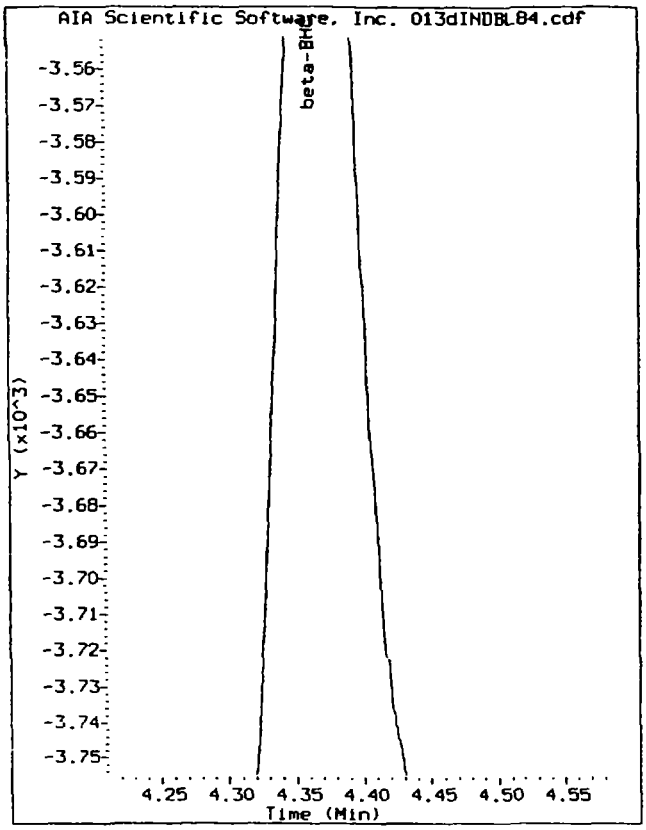
Lab Smp Id : INDBL84 Client Smp Id : INDBL84
Sample Type : INITIAL CAL: Level 1 Sublist : INDB
Run Date : 30-SEP-2005 21:25 Inst ID : TRACEGC80
Operator : 2512
Method : /chem/tracegc80.i/d050930.b/2ulOLM04_clpestv6.m
Misc. Info : None

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
0.12			925					
0.59			37387					
0.89			233					
1.03			484					
1.24			248					
1.46			215					
1.71			73					
2.32			145					
2.61	2.55	2.65	2734	513950	Tetrachloro-m-xylene	0.005000		
4.36	4.32	4.42	1526	303500	beta-BHC	0.005000	305200	M
4.68	4.63	4.73	3353	661850	delta-BHC	0.005000	670600	
5.62	5.57	5.67	3444	636950	Aldrin	0.005000	688600	
6.94	6.87	7.01	3350	607700	Heptachlor epoxide	0.005000	669800	
7.20	7.13	7.27	3272	608400	gamma-Chlordane	0.005000	654200	
7.49	7.42	7.56	3135	554050	alpha-Chlordane	0.005000	626800	
7.84	7.78	7.92	5851	526150	4,4'-DDE	0.010000	585100	
9.21	9.14	9.28	5408	467975	Endosulfan II	0.010000	540800	
10.16	10.09	10.23	4176	367350	Endrin aldehyde	0.010000	417600	
11.10	11.03	11.17	5505	482850	Endosulfan sulfate	0.010000	550500	
11.63	11.56	11.70	5675	495800	Endrin ketone	0.010000	567400	
14.09	13.99	14.19	6925	615700	Decachlorobiphenyl	0.010000		

Lab

TAJ 10/4/05

Manually Integrated Peaks

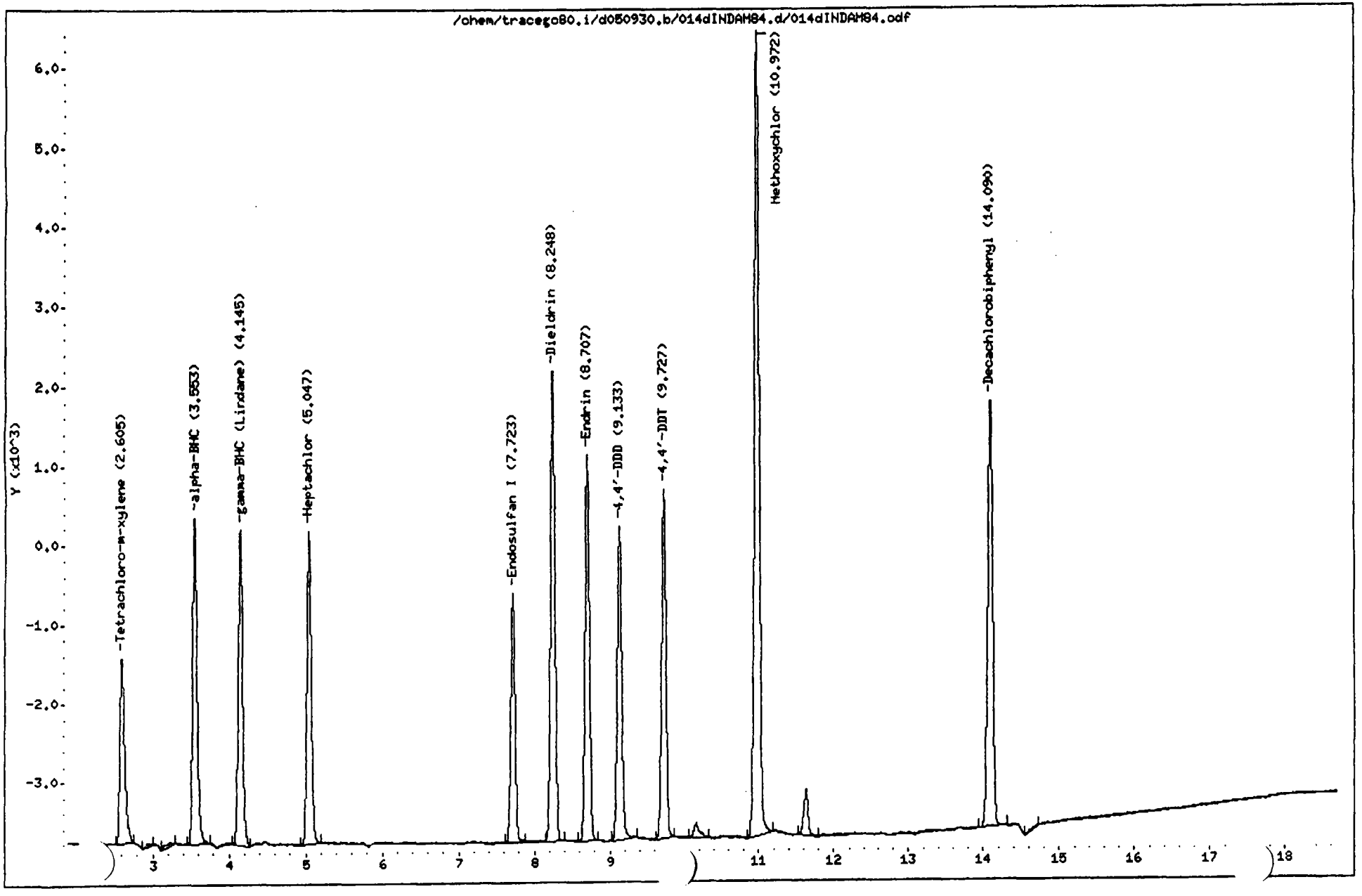


Start: 4.31 Stop: 4.49

Data File: /chem/tracego80.i/d050930.b/014dINDAH84.d
Date : 30-SEP-2005 21:47
Client ID: INDAH84
Sample Info: INDAH84
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracego80.i

Operator: 2512
Column diameter: 0.53



CompuChem Environmental Corporation

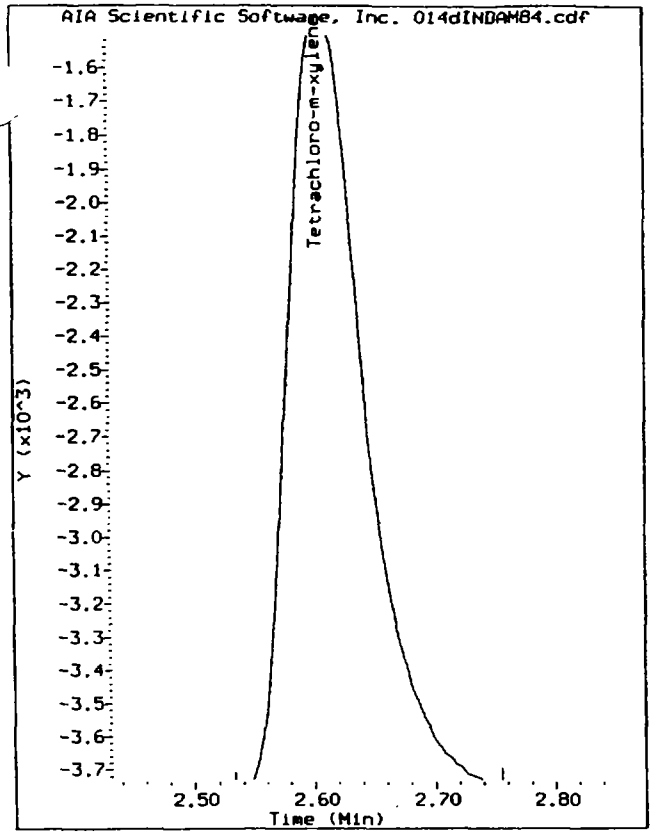
Lab Smp Id : INDAM84 Client Smp Id : INDAM84
Sample Type : INITIAL CAL: Level 2 Sublist : INDA
Inj Date : 30-SEP-2005 21:47 Inst ID : TRACEGC80
Operator : 2512
Method : /chem/tracegc80.i/d050930.b/2ulOLM04_clpestv6.m
Misc. Info : None

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
0.12			1026					
0.55			2071					
0.59			1162					
0.70			8137					
1.02			408					
1.26			422					
1.46			215					
1.72			340					
1.86			180					
2.60	2.55	2.65	10280	513950	Tetrachloro-m-xylene	0.020000	513950	M~
2.94			182					
3.24			330					
3.55	3.50	3.60	16334	816650	alpha-BHC	0.020000	816650	
4.14	4.09	4.19	15185	759250	gamma-BHC (Lindane)	0.020000	759250	
5.05	5.00	5.10	15692	784550	Heptachlor	0.020000	784550	
7.72	7.65	7.79	12582	629050	Endosulfan I	0.020000	629050	
8.25	8.18	8.32	23470	586725	Dieldrin	0.040000	586725	
8.71	8.64	8.78	19429	485700	Endrin	0.040000	485700	
9.13	9.07	9.21	16458	411450	4,4'-DDD	0.040000	411450	
9.73	9.66	9.80	18290	457225	4,4'-DDT	0.040000	457225	
10.16			978					
10.97	10.90	11.04	44461	222300	Methoxychlor	0.200000	222300	
11.63			2442					
14.09	13.99	14.19	24628	615700	Decachlorobiphenyl	0.040000	615700	
14.71			173					

(10%)

TAJ 10/4/05

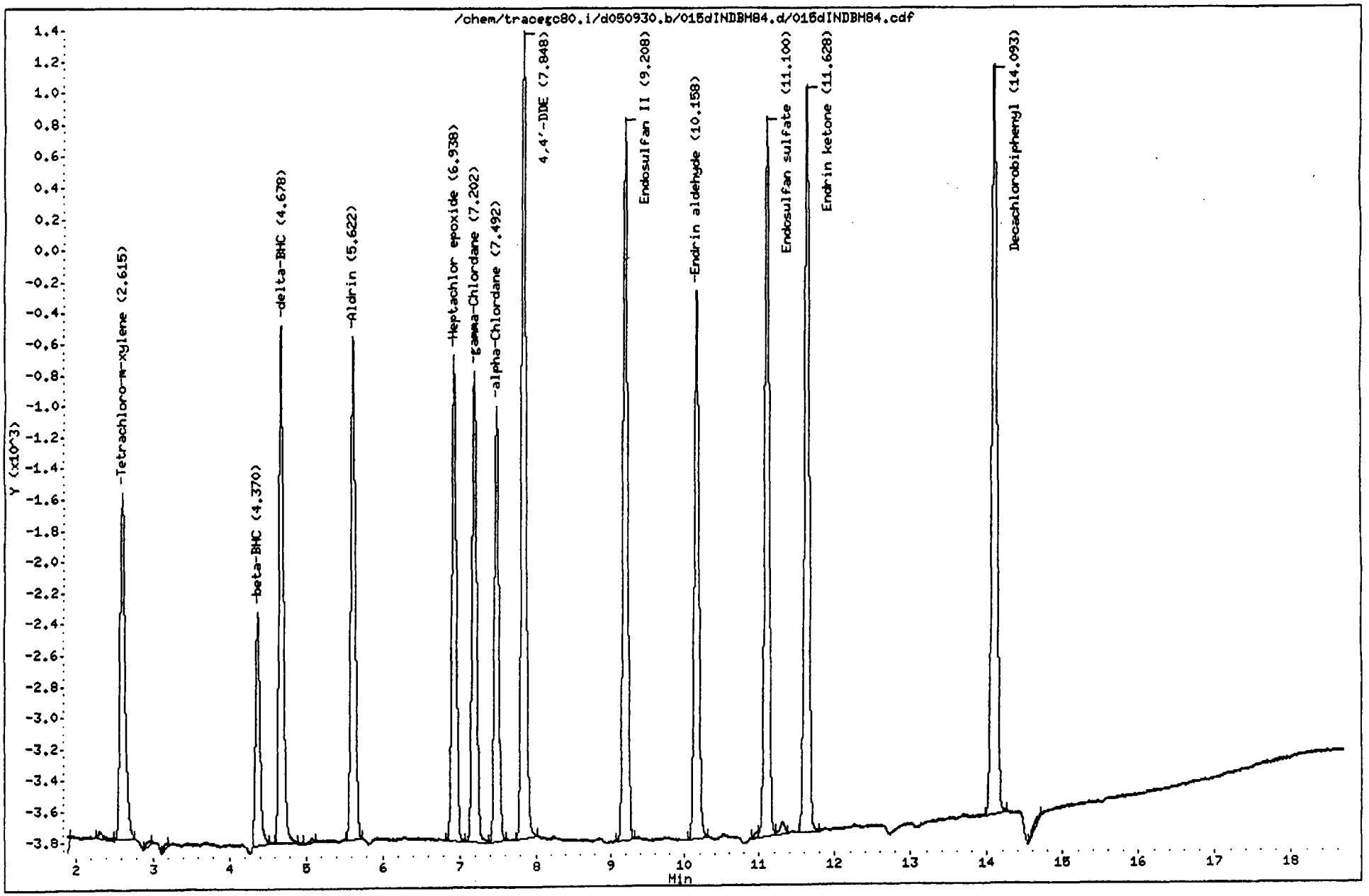
Manually Integrated Peaks



Start: 2.53 Stop: 2.75

Data File: /chem/tracegc80.i/d050930.b/015dINDBM84.d
Date : 30-SEP-2005 22:09
Client ID: INDBM84
Sample Info: INDBM84
Volume Injected (uL): 1.0
Column phase: olpest

Instrument: tracegc80.i
Operator: 2512
Column diameter: 0.53



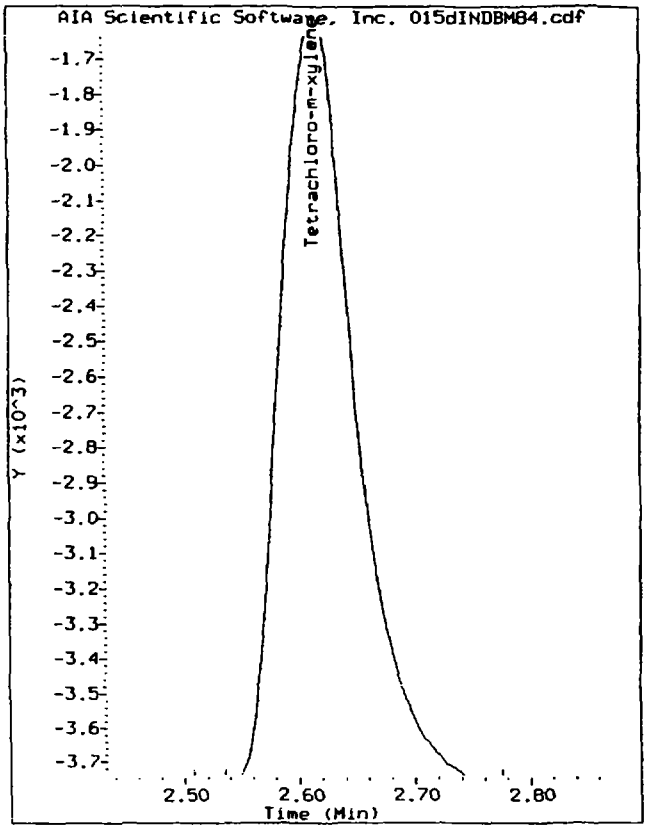
CompuChem Environmental Corporation

Lab Smp Id : INDBM84 Client Smp Id : INDBM84
Sample Type : INITIAL CAL: Level 2 Sublist : INDB
Run Date : 30-SEP-2005 22:09 Inst ID : TRACEGC80
Operator : 2512
Method : /chem/tracegc80.i/d050930.b/2ulOLM04_clpestv6.m
Misc. Info : None

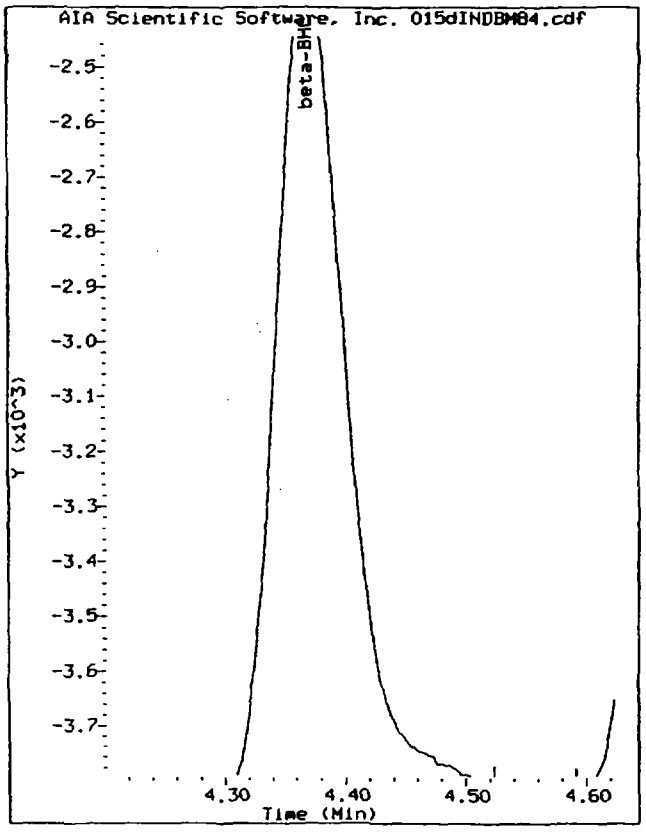
RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
0.13			932					
0.56			3193					
0.59			1017					
0.70			8487					
1.03			289					
1.23			99					
1.47			234					
1.89			261					
2.32			311					
2.62	2.55	2.65	10045	513950	Tetrachloro-m-xylene	0.020000		M
2.95			143					
3.19			101					
4.37	4.32	4.42	6070	303500	beta-BHC	0.020000	303500	M
4.68	4.63	4.73	13237	661850	delta-BHC	0.020000	661850	M
5.08			106					
5.62	5.57	5.67	12740	636950	Aldrin	0.020000	636950	
6.94	6.87	7.01	12155	607700	Heptachlor epoxide	0.020000	607700	
7.20	7.13	7.27	12169	608400	gamma-Chlordane	0.020000	608400	
7.49	7.42	7.56	11081	554050	alpha-Chlordane	0.020000	554050	
7.85	7.78	7.92	21047	526150	4,4'-DDE	0.040000	526150	
9.21	9.14	9.28	18720	467975	Endosulfan II	0.040000	467975	
10.16	10.09	10.23	14694	367350	Endrin aldehyde	0.040000	367350	
10.96			118					
0	11.03	11.17	19315	482850	Endosulfan sulfate	0.040000	482850	
12			383					
11.63	11.56	11.70	19833	495800	Endrin ketone	0.040000	495800	
14.09	13.99	14.19	22180	615700	Decachlorobiphenyl	0.040000		
14.70			270					

TAJ 10/4/05

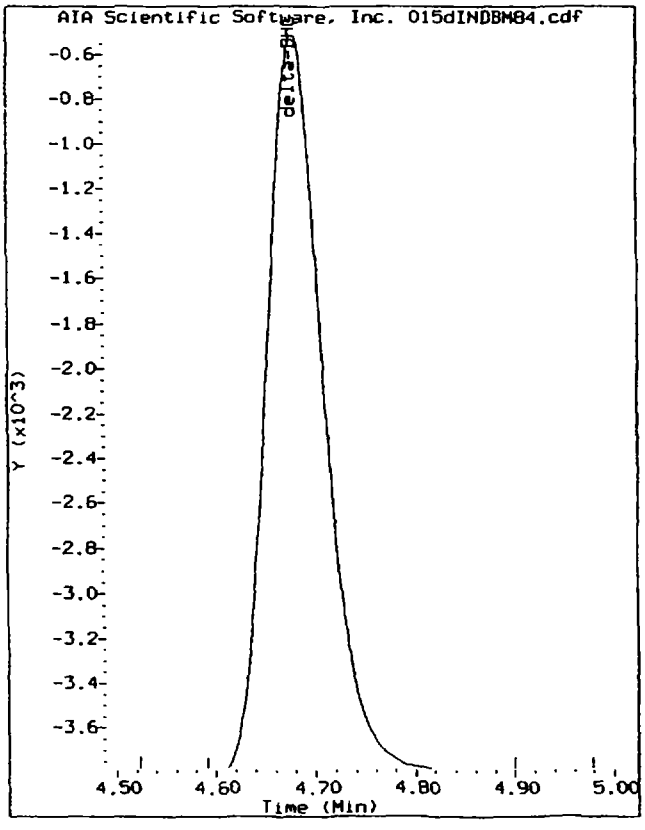
Manually Integrated Peaks



Start: 2.54 Stop: 2.77



Start: 4.30 Stop: 4.52

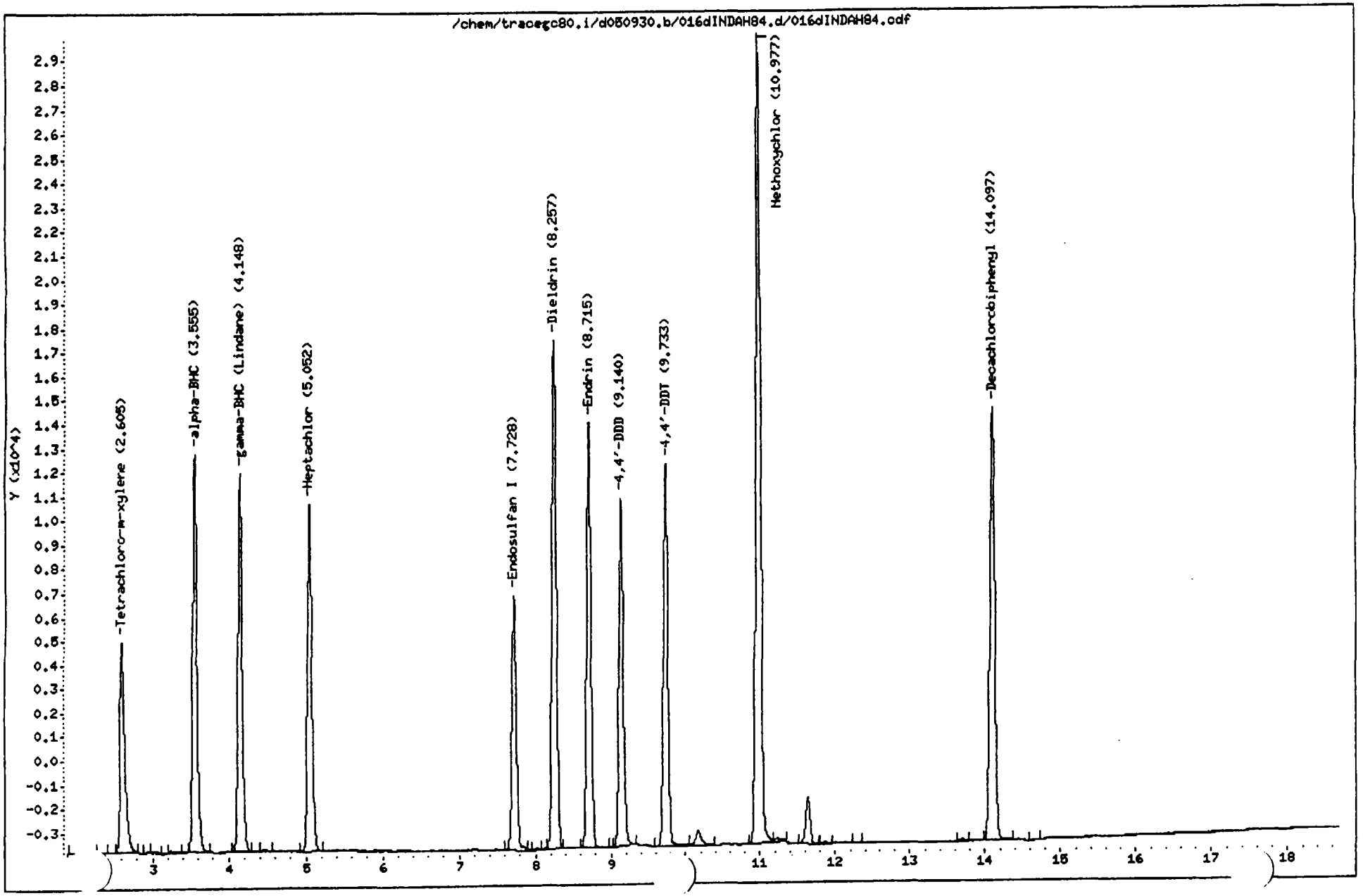


Start: 4.59 Stop: 4.90

Data File: /chem/tracegc80.i/d050930.b/016dINDAH84.d
Date : 30-SEP-2005 22:31
Client ID: INDAH84
Sample Info: INDAH84
Volume Injected (uL): 1.0
Column phase: olpest

Instrument: tracegc80.i

Operator: 2512
Column diameter: 0.53



CompuChem Environmental Corporation

Lab Smp Id : INDAH84
Sample Type : INITIAL CAL: Level 3
Inj Date : 30-SEP-2005 22:31
Operator : 2512
Method : /chem/tracegc80.i/d050930.b/2ulOLM04_clpestv6.m
Misc. Info : None

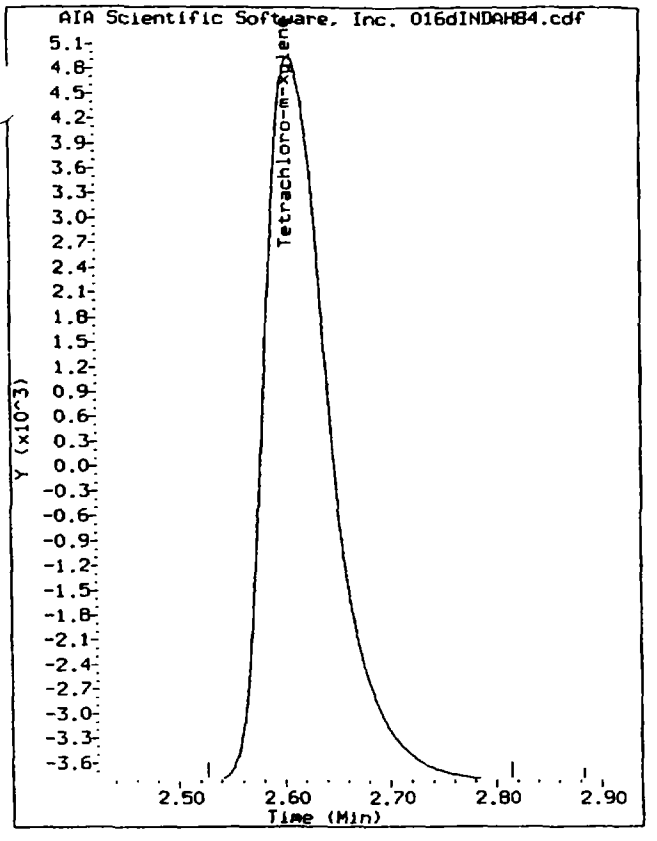
Client Smp Id : INDAH84
Sublist : INDA
Inst ID : TRACEGC80

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
0.14			711					
0.56			1878					
0.60			4066					
0.68			5496					
0.90			186					
1.02			337					
1.47			422					
1.70			95					
1.89			205					
2.33			137					
2.60	2.55	2.65	37771	513950	Tetrachloro-m-xylene	0.080000	472125	M2
2.95			105					
3.17			158					
3.24			532					
3.56	3.50	3.60	62365	816650	alpha-BHC	0.080000	779562	M
4.15	4.09	4.19	57774	759250	gamma-BHC (Lindane)	0.080000	722162	
4.47			346					
5.05	5.00	5.10	56045	784550	Heptachlor	0.080000	700550	
7.73	7.65	7.79	43184	629050	Endosulfan I	0.080000	539800	
7.94			178					
8.02			338					
8.14			156					
8.26	8.18	8.32	83903	586725	Dieldrin	0.160000	524388	
8.72	8.64	8.78	69970	485700	Endrin	0.160000	437312	
9.14	9.07	9.21	58527	411450	4,4'-DDD	0.160000	365794	
9.73	9.66	9.80	65616	457225	4,4'-DDT	0.160000	410100	
10.16			3201					
10.98	10.90	11.04	146399	222300	Methoxychlor	0.800000	182998	
11.23			882					
11.63			7985					
11.87			289					
12.27			102					
13.70			424					
14.10	13.99	14.19	82331	615700	Decachlorobiphenyl	0.160000	514562	
14.70			112					

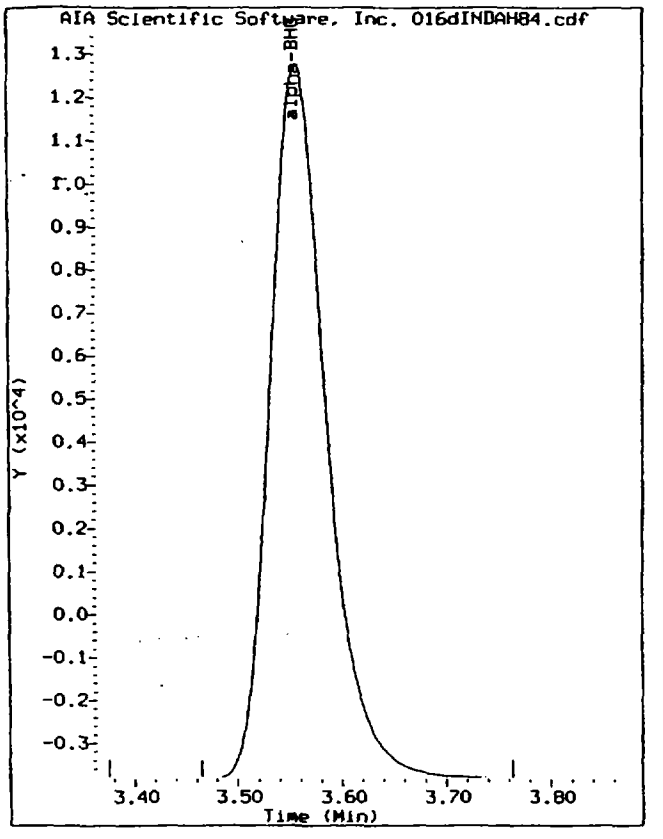
C 6/3/05

TAJ 10/4/05

Manually Integrated Peaks



Start: 2.53 Stop: 2.82



Start: 3.46 Stop: 3.76

Data File: /chem/tracegc80.i/d050930.b/017dINDBH84.d

Date : 30-SEP-2005 22:52

Client ID: INDBH84

Sample Info: INDBH84

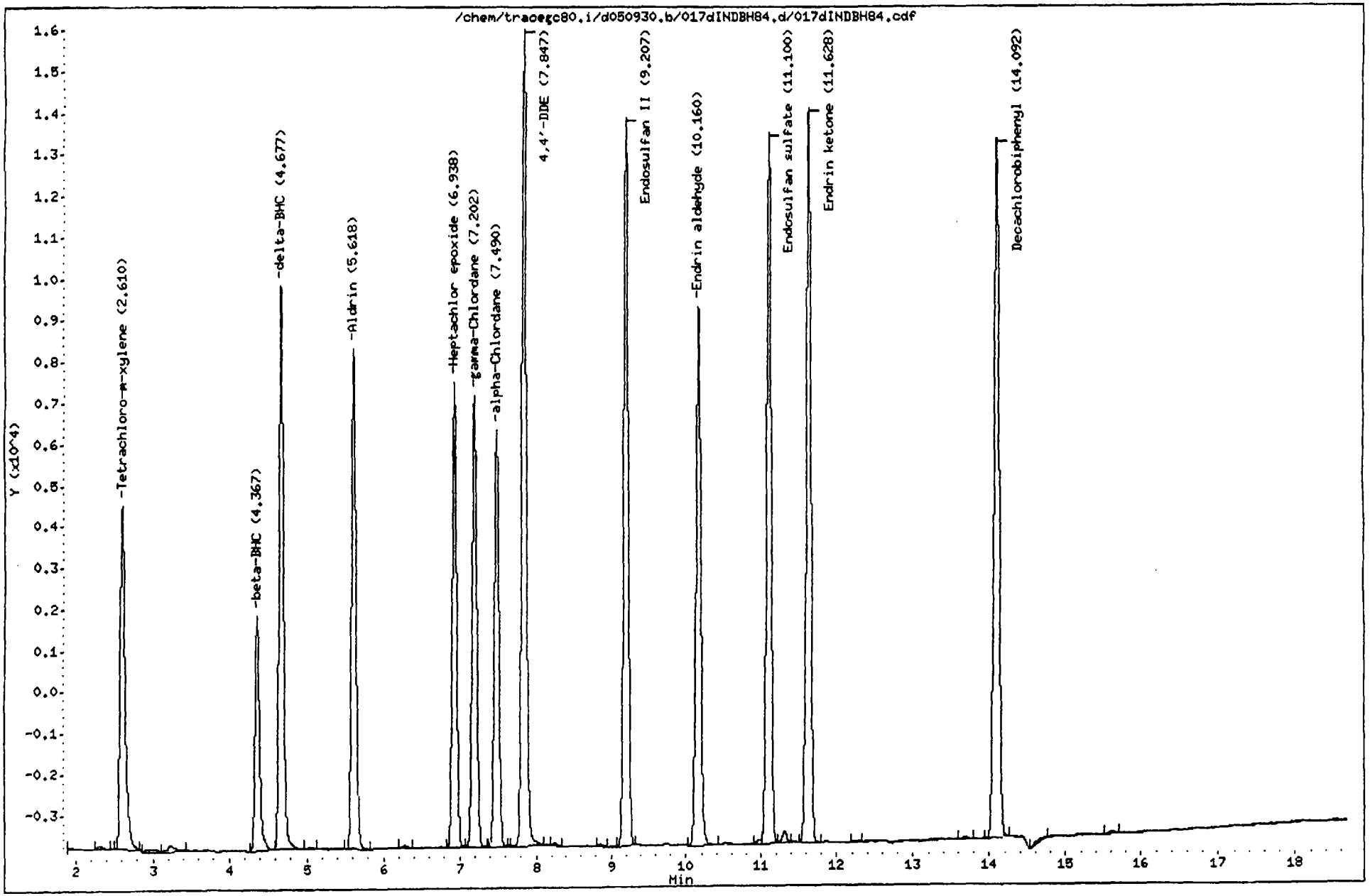
Volume Injected (uL): 1.0

Column phase: olpest

Instrument: tracegc80.i

Operator: 2512

Column diameter: 0.53



CompuChem Environmental Corporation

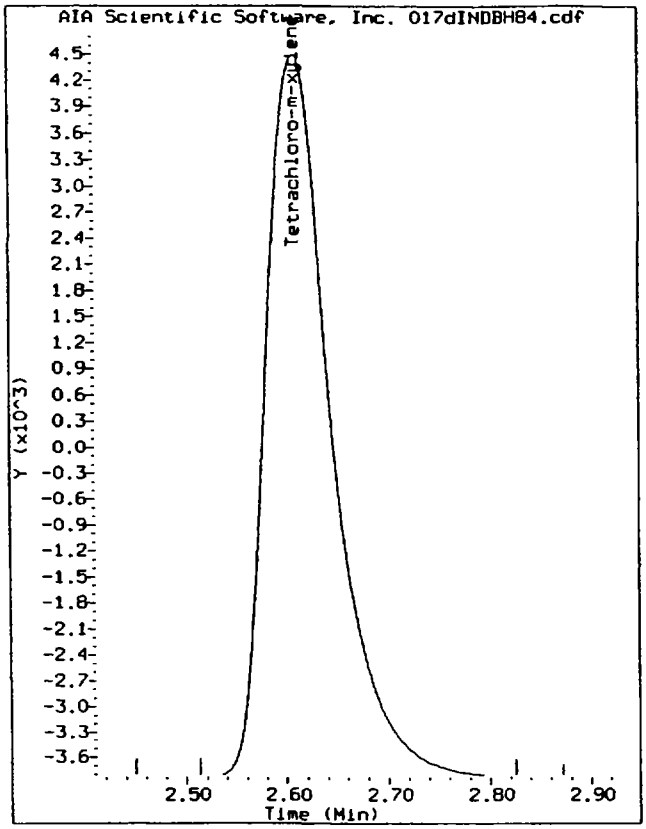
Lab Smp Id	: INDBH84	Client Smp Id	: INDBH84
Sample Type	: INITIAL CAL: Level 3	Sublist	: INDB
Lab Date	: 30-SEP-2005 22:52	Inst ID	: TRACEGC80
Operator	: 2512		
Method	: /chem/tracegc80.i/d050930.b/2ulOLM04_clpestv6.m		
Misc. Info	: None		

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
0.11			2316					
0.59			26566					
0.90			229					
1.02			413					
1.26			259					
1.46			524					
1.69			383					
1.88			205					
2.32			481					
2.61	2.55	2.65	37737	513950	Tetrachloro-m-xylene	0.080000		M2
2.96			762					
3.23			1104					
4.37	4.32	4.42	23441	303500	beta-BHC	0.080000	293012	
4.68	4.63	4.73	53019	661850	delta-BHC	0.080000	662738	
5.07			217					
5.62	5.57	5.67	48086	636950	Aldrin	0.080000	601062	
6.28			270					
6.94	6.87	7.01	44343	607700	Heptachlor epoxide	0.080000	554275	
7.20	7.13	7.27	44100	608400	gamma-Chlordane	0.080000	551250	
7.49	7.42	7.56	40489	554050	alpha-Chlordane	0.080000	506112	
7.85	7.78	7.92	79632	526150	4,4'-DDE	0.160000	497700	
8.26			279					
8.87			265					
9.21	9.14	9.28	70873	467975	Endosulfan II	0.160000	442950	
10.16	10.09	10.23	54401	367350	Endrin aldehyde	0.160000	340006	
10.97			377					
11.10	11.03	11.17	71215	482850	Endosulfan sulfate	0.160000	445094	
11.31			1169					
11.63	11.56	11.70	72991	495800	Endrin ketone	0.160000	456188	
12.27			126					
13.69			308					
14.09	13.99	14.19	77700	615700	Decachlorobiphenyl	0.160000		
14.76			685					
15.60			286					

I WBM

TAJ 10/4/05

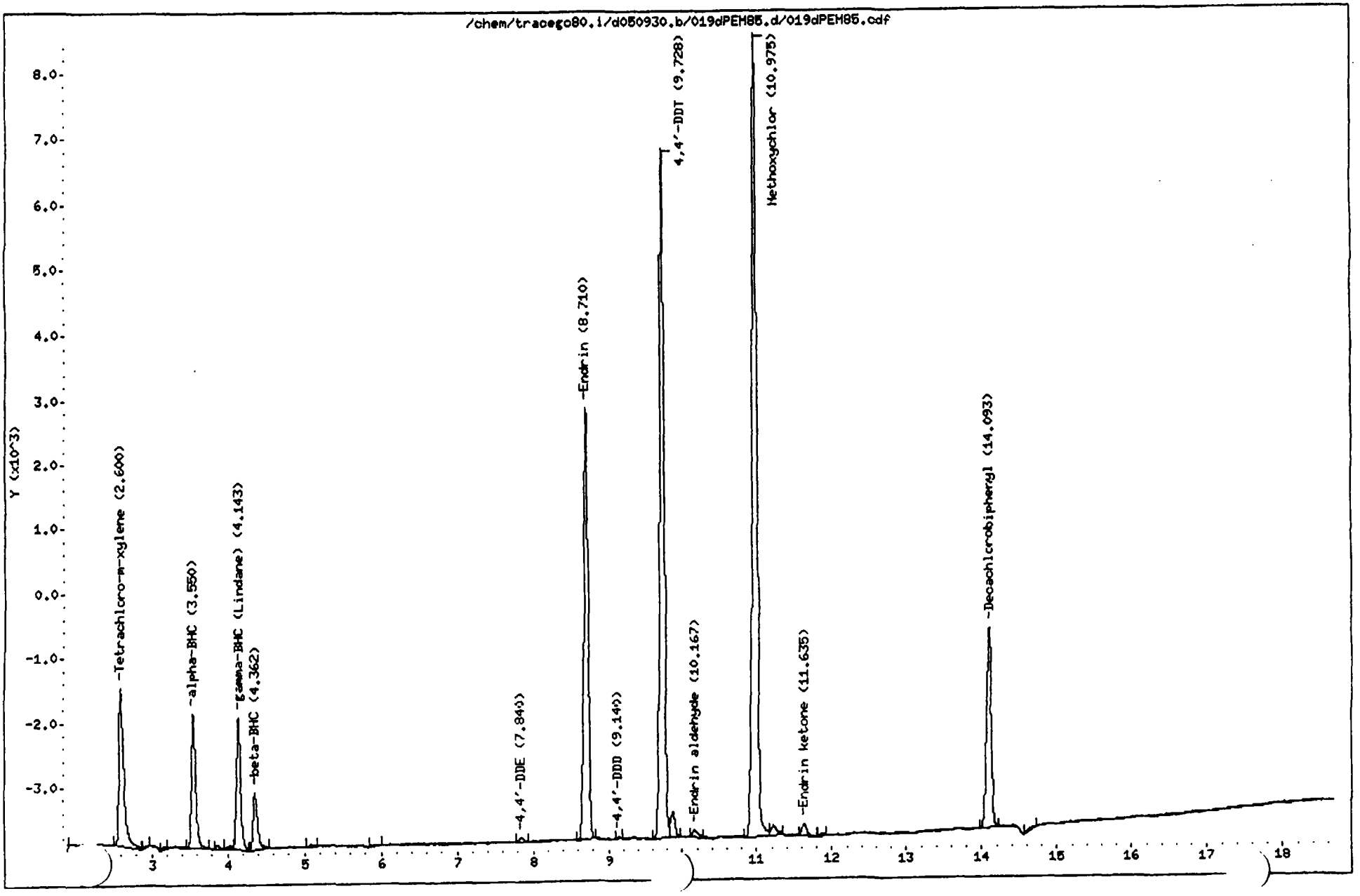
Manually Integrated Peaks



Start: 2.51 Stop: 2.83

Data File: /chem/tracegc80.i/d050930.b/019dPEM85.d
Date : 30-SEP-2005 23:36
Client ID: PEM85
Sample Info: PEM85
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc80.i
Operator: 2512
Column diameter: 0.53



CompuChem Environmental Corporation

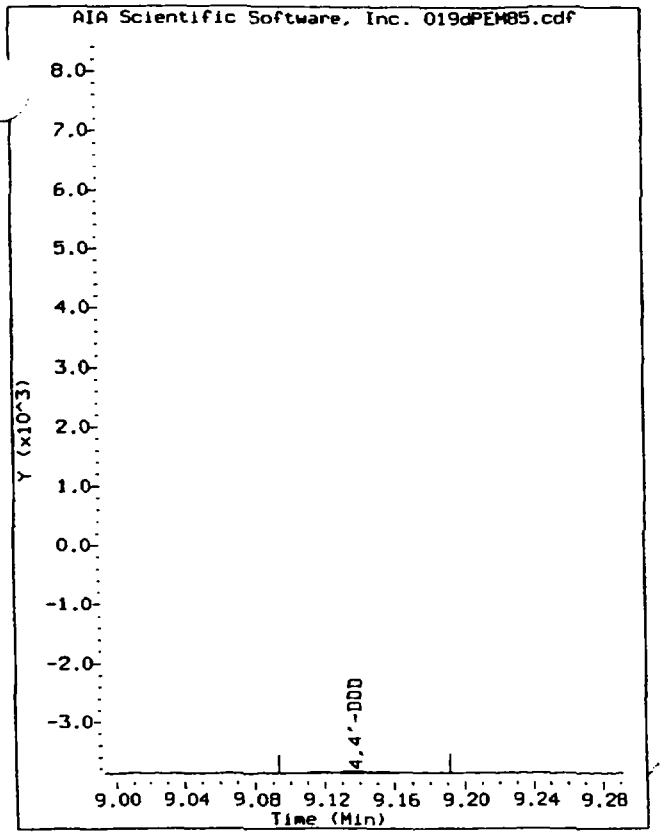
Lab Smp Id : PEM85 Client Smp Id : PEM85
Sample Type : PEM Sublist : PEM
Inj Date : 30-SEP-2005 23:36 Inst ID : TRACEGC80
Operator : 2512 Spike Sublist : PEM
Method : /chem/tracegc80.i/d050930.b/2ul0LM04_clpestv6.m
Misc. Info : None

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CALC AMT ON-COLUMN (Ng)	%D	%D LIMIT	FLAGS
0.12			649							
0.40			226							
0.56			2632							
0.59			672							
0.68			9785							
1.03			350							
1.26			235							
1.47			460							
1.70			182							
1.90			226							
2.60	2.55	2.65	10943	513950	Tetrachloro-m-xylene	0.020000	0.021292	6.5	25.0	
2.94			73							
3.17			124							
3.55	3.50	3.60	8062	816650	alpha-BHC	0.010000	0.009872	-1.3	25.0	
3.87			295							
4.04			299							
4.14	4.09	4.19	7781	759250	gamma-BHC (Lindane)	0.010000	0.010249	2.5	25.0	
4.36	4.32	4.42	3524	303500	beta-BHC	0.010000	0.011611	16.1	25.0	
5.10			113							
5.91			139							
7.84	7.78	7.92	275	526150	4,4'-DDE	0.000000	0.000523			J
8.71	8.64	8.78	26469	485700	Endrin	0.050000	0.054496	9.0	25.0	
9.14	9.07	9.21	82	411450	4,4'-DDD	0.000000	0.000199			JM
9.73	9.66	9.80	44138	457225	4,4'-DDT	0.100000	0.096536	-3.5	25.0	
9.87			1713							
10.17	10.09	10.23	581	367350	Endrin aldehyde	0.000000	0.001581			J
10.98	10.90	11.04	54450	222300	Methoxychlor	0.250000	0.244939	-2.0	25.0	
11.23			799							
11.64	11.56	11.70	869	495800	Endrin ketone	0.000000	0.001754			J
11.88			114							
14.09	13.99	14.19	14067	615700	Decachlorobiphenyl	0.020000	0.022848	14.2	25.0	
14.72			155							

1 of 4

TAJ 10/4/05

Manually Integrated Peaks



Start: 9.09 Stop: 9.19

COPY

Page 1

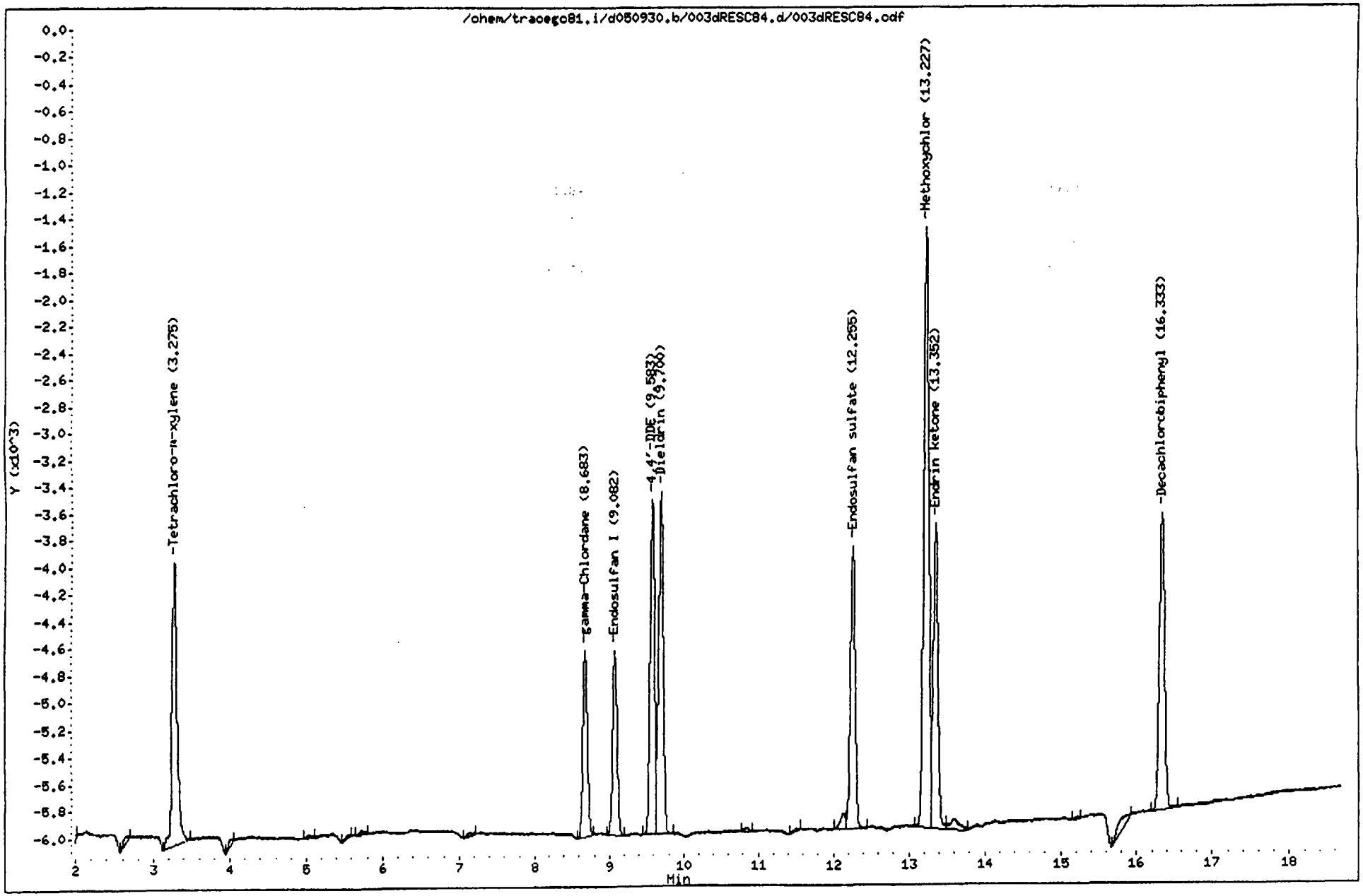
ORIGINAL DOCUMENTS INCLUDED IN CSF 34611

SIGNATURE TAJ DATE 10/4/05

Data File: /chem/tracegc81.i/d050930.b/003dRESC84.d
Date : 30-SEP-2005 17:48
Client ID: RESC84
Sample Info: RESC84
Volume Injected (uL): 1.0
Column phase: olpest2

Instrument: tracegc81.i

Operator: 2512
Column diameter: 0.53

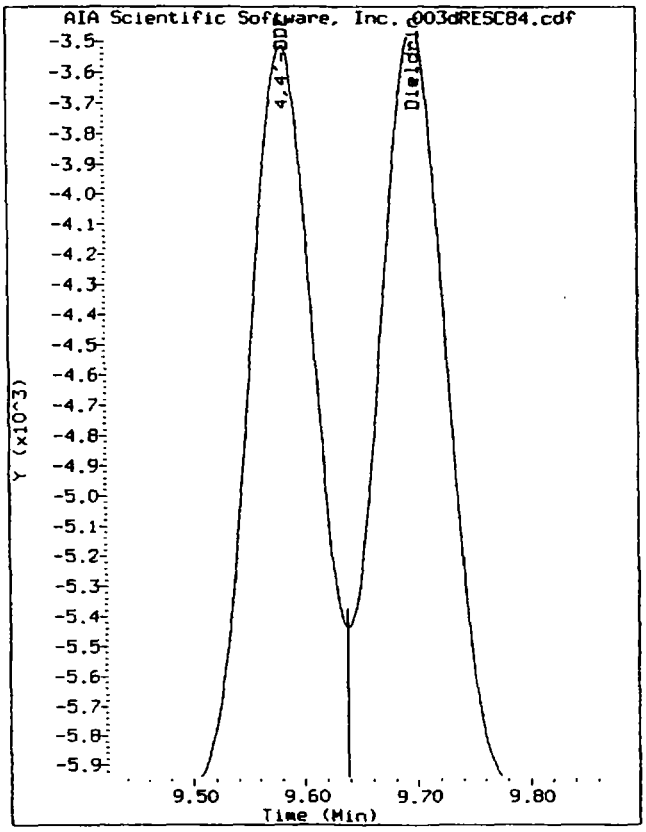


CompuChem Environmental Corporation

Smp Id	: RESC84	Client Smp Id	: RESC84
Sample Type	: RESOLUTION	Sublist	: RESC
Inj Date	: 30-SEP-2005 17:48	Inst ID	: TRACEGC81
Operator	: 2512		
Method	: /chem/tracegc81.i/d050930.b/2ulOLM04_clpest2v6.m		
Misc. Info	: None		

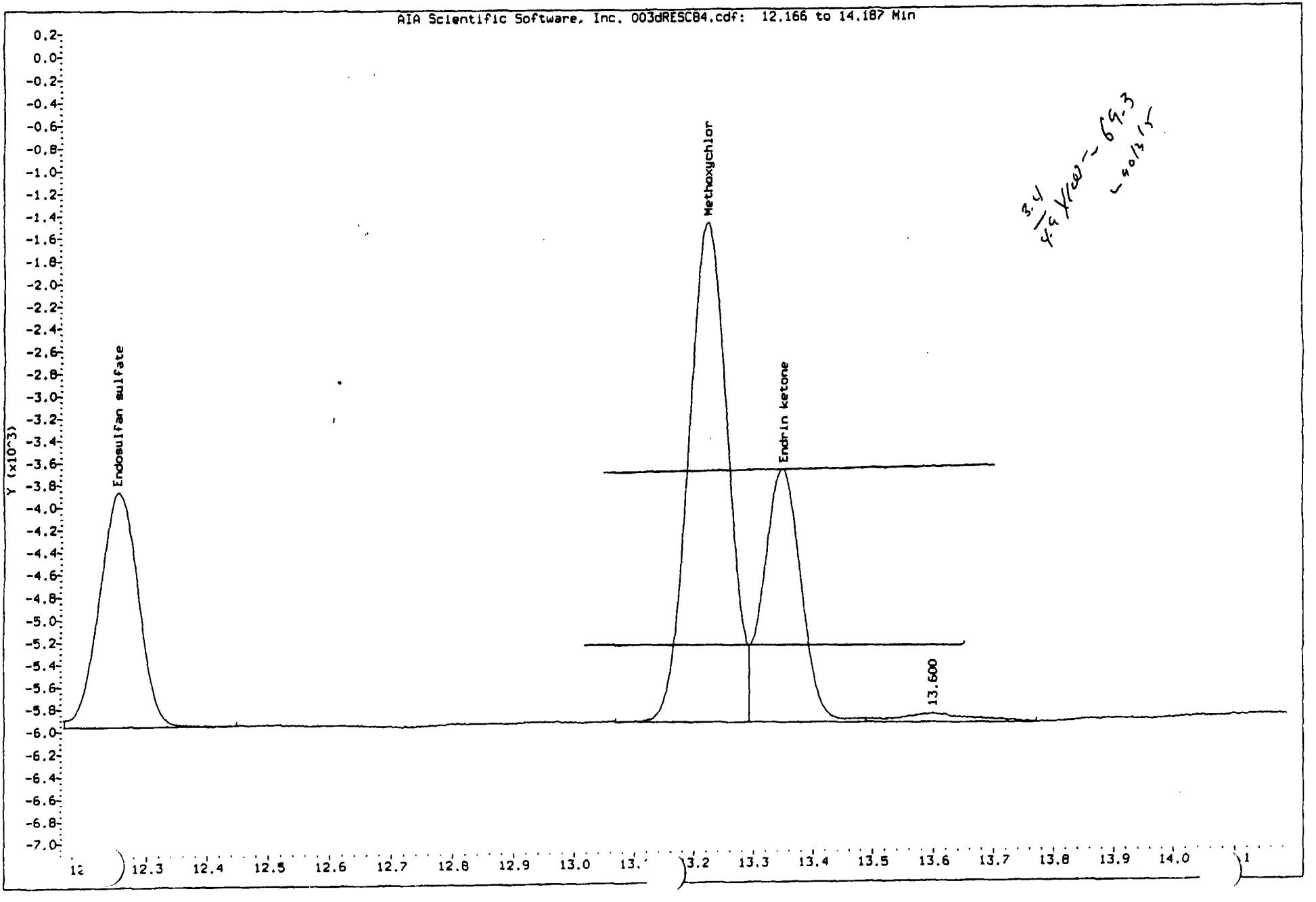
RT	RT WINDOW		AREA	COMPOUND	FLAGS
0.12			2363		
0.58			108245		
0.85			1950		
1.14			498		
1.36			137		
1.68			884		
1.80			716		
1.92			337		
2.65			247		
3.28	3.22	3.32	9707	Tetrachloro-m-xylene	
4.03			188		
5.05			103		
5.55			109		
5.74			135		
7.15			128		
8.68	8.62	8.76	5785	gamma-Chlordane	
9.08	9.01	9.15	5763	Endosulfan I	
9.58	9.51	9.65	10410	4,4'-DDE	
9.70	9.63	9.77	10763	Dieldrin	
10.85			159		
11.51			111		
12.12			498		
12.26	12.19	12.33	9222	Endosulfan sulfate	
13.23	13.15	13.29	20446	Methoxychlor	
13.35	13.28	13.42	9891	Endrin ketone	
14.70			646		
15.22			53		
15.91			819		
16.33	16.23	16.43	10731	Decachlorobiphenyl	

Non-Fully Resolved Peaks

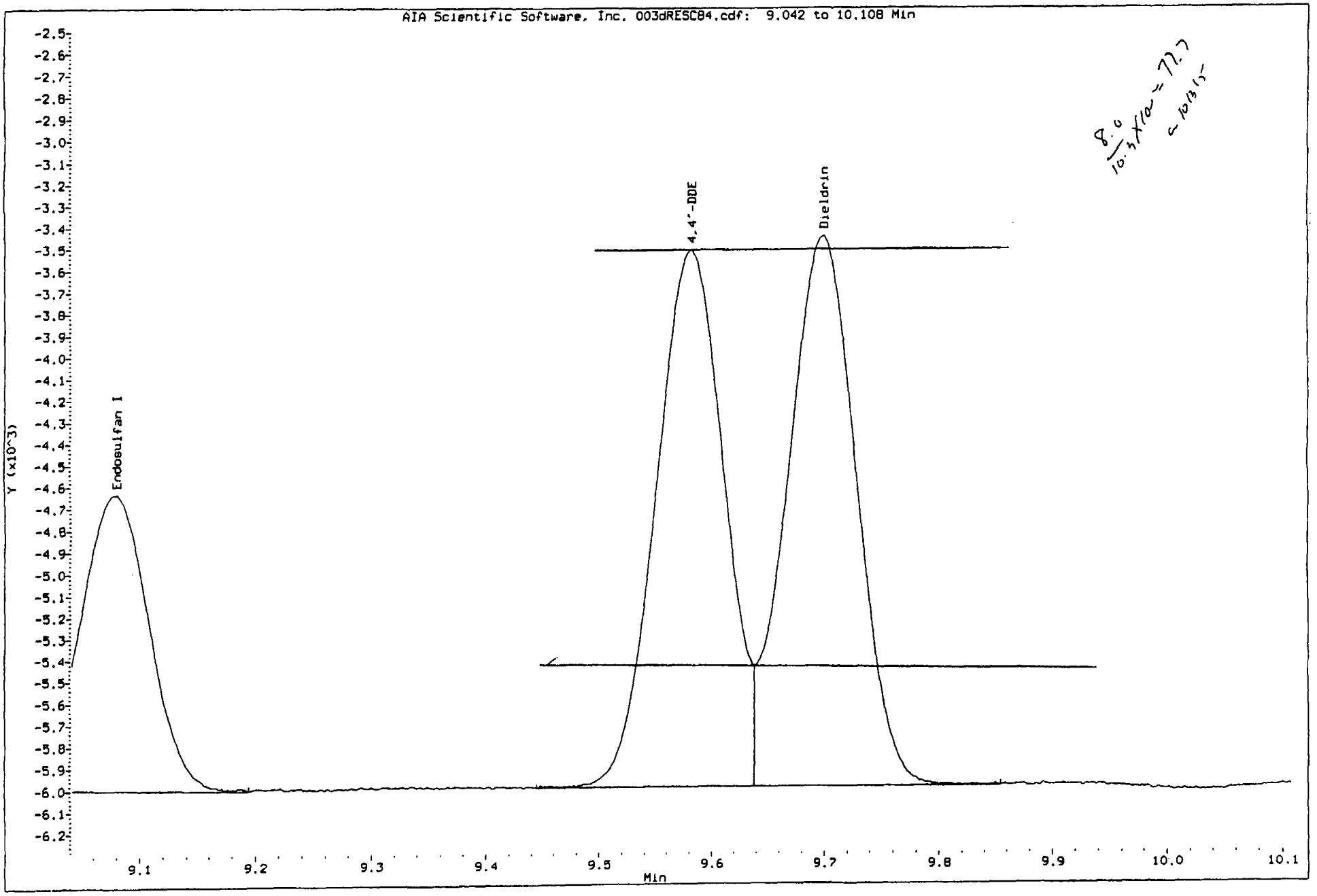


Resolution: 77.4%

Data File: /chem/tracegc81.i/d050930.b/003dRESC84.d/003dRESC84.cdf
Injection Date: 30-SEP-2005 17:48
Instrument: tracegc81.i
Client Sample ID: RESC84



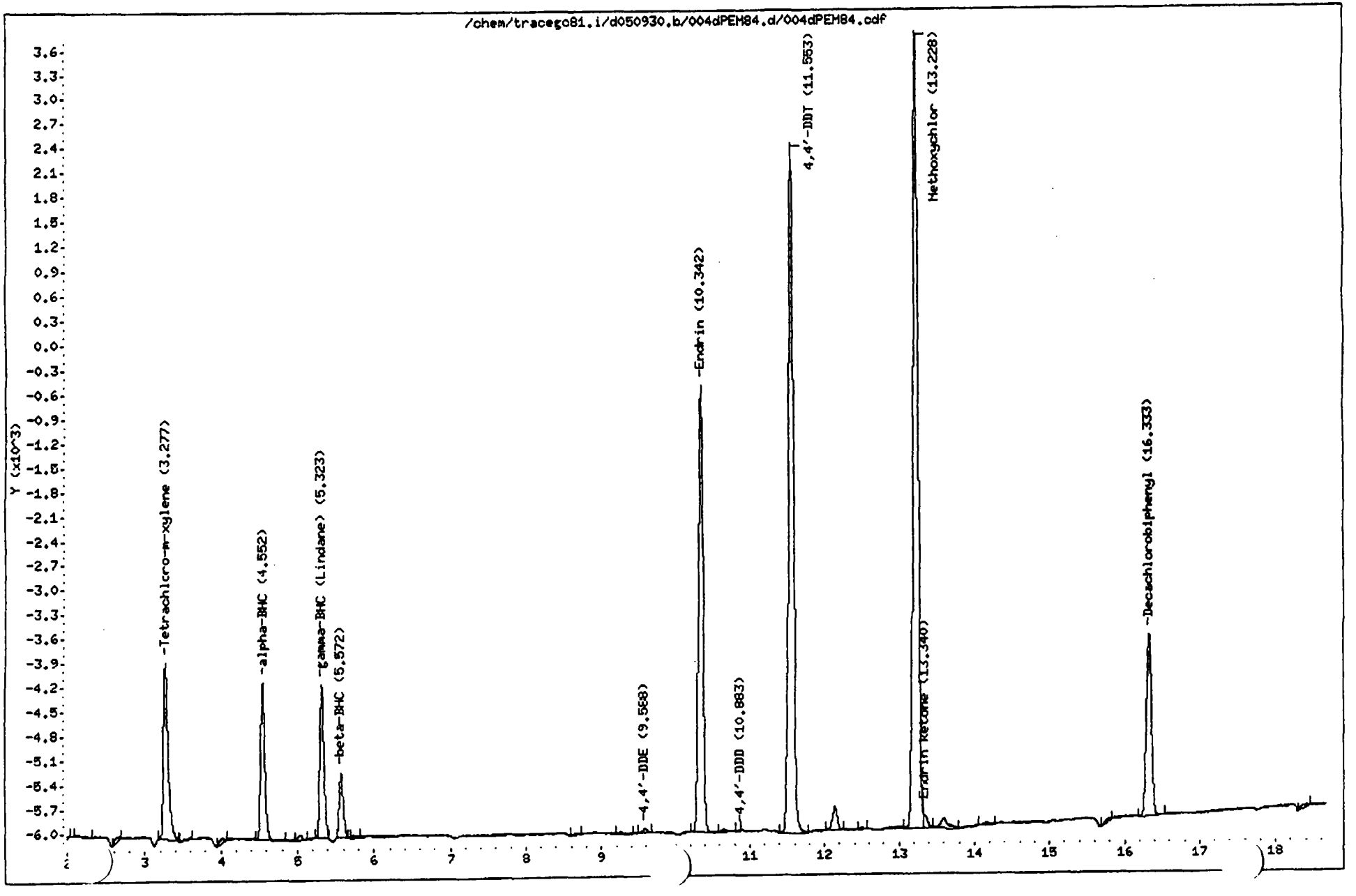
Data File: /chem/tracegc81.i/d050930.b/003dRESC84.d/003dRESC84.cdf
Injection Date: 30-SEP-2005 17:48
Instrument: tracegc81.i
Client Sample ID: RESC84



Data File: /chem/tracego81.i/d050930.b/004dPEM84.d
Date : 30-SEP-2005 18:10
Client ID: PEM84
Sample Info: PEM84
Volume Injected (uL): 1.0
Column phase: clpest2

Instrument: tracego81.i

Operator: 2512
Column diameter: 0.53



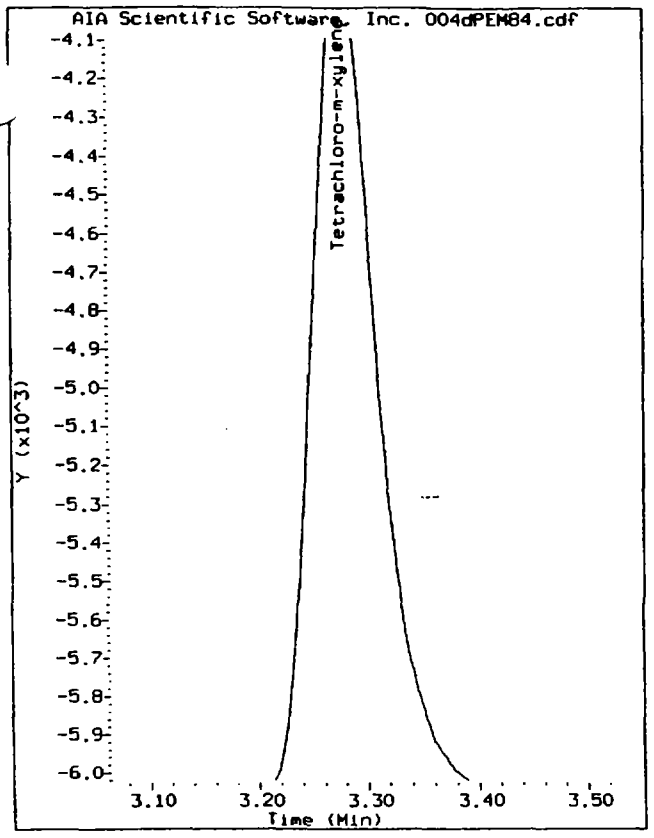
CompuChem Environmental Corporation

Lab Smp Id : PEM84 Client Smp Id : PEM84
Sample Type : PEM Sublist : PEM
Inj Date : 30-SEP-2005 18:10 Inst ID : TRACEGC81
Operator : 2512 Spike Sublist : PEM
Method : /chem/tracegc81.i/d050930.b/2ulOLM04_clpest2v6.m
Misc. Info : None

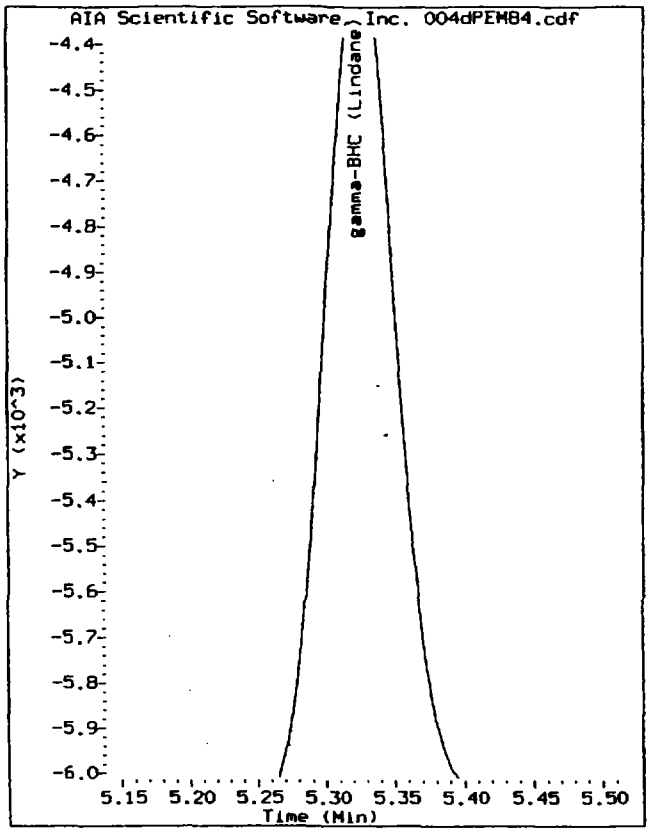
RT	RT WINDOW		AREA	QUANT RP	COMPOUND	STD AMT ON-COLUMN (Ng)	CALC AMT ON-COLUMN (Ng)	%D	%D LIMIT	FLAGS
0.13			920							
0.53			2007							
0.57			1279							
0.64			1348							
0.67			6028							
1.15			404							
1.34			152							
1.68			530							
1.80			191							
1.94			127							
2.15			154							
2.64			262							
3.28	3.22	3.32	9298	423700	Tetrachloro-m-xylene	0.020000	0.021944	9.7	25.0	M2
3.56			116							
4.01			261							
4.55	4.50	4.60	7404	672300	alpha-BHC	0.010000	0.011012	10.1	25.0	
5.04			238							
5.32	5.27	5.37	6921	637150	gamma-BHC (Lindane)	0.010000	0.010862	8.6	25.0	M2
5.57	5.52	5.62	2962	253500	beta-BHC	0.010000	0.011684	16.8	25.0	M2
5.73			154							
8.70			85							
9.24			120							
9.59	9.51	9.65	257	460650	4,4'-DDE	0.000000	0.000557			J
10.34	10.27	10.41	23947	419850	Endrin	0.050000	0.057037	14.1	25.0	
10.64			173							
10.88	10.80	10.94	68	348450	4,4'-DDD	0.000000	0.000196			J
11.55	11.48	11.62	38492	420675	4,4'-DDT	0.100000	0.091501	-8.5	25.0	
12.13			1341							
12.49			111							
13.23	13.15	13.29	45605	189110	Methoxychlor	0.250000	0.241154	-3.5	25.0	M2
13.34	13.28	13.42	623	414175	Endrin ketone	0.000000	0.001505			JM2
13.60			865							
14.17			156							
15.83			189							
16.33	16.23	16.43	10920	482325	Decachlorobiphenyl	0.020000	0.022641	13.2	25.0	
18.41			282							

TAJ 10/4/05

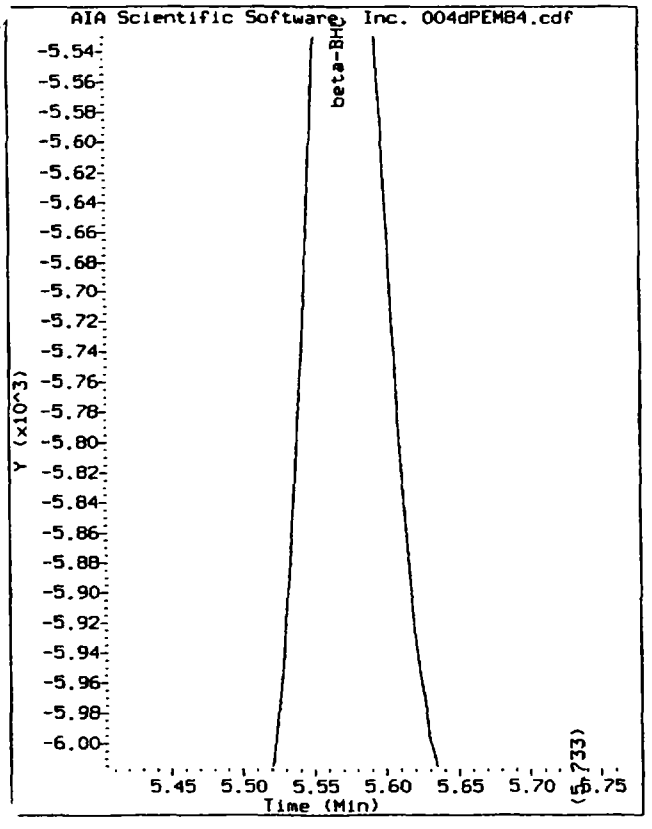
Manually Integrated Peaks



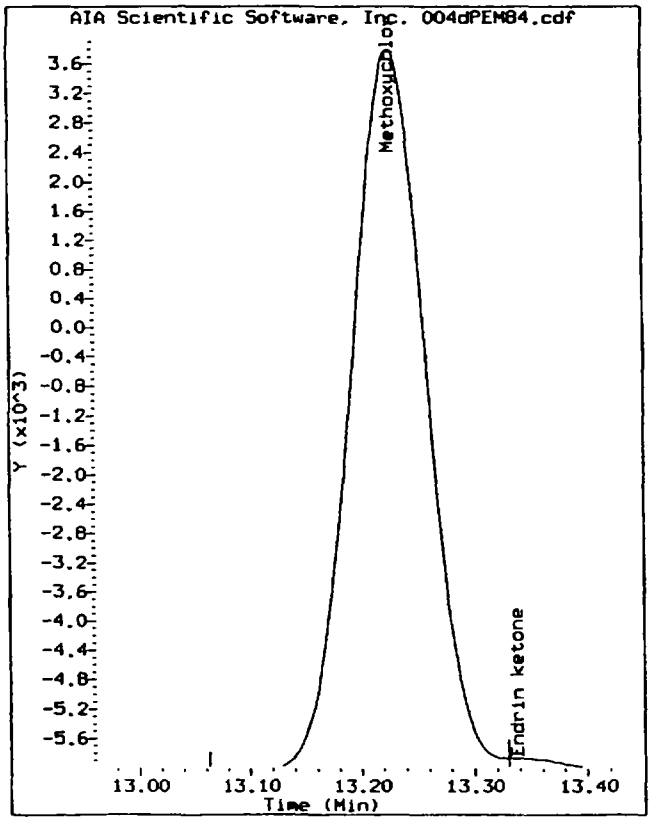
Start: 3.17 Stop: 3.43



Start: 5.24 Stop: 5.41

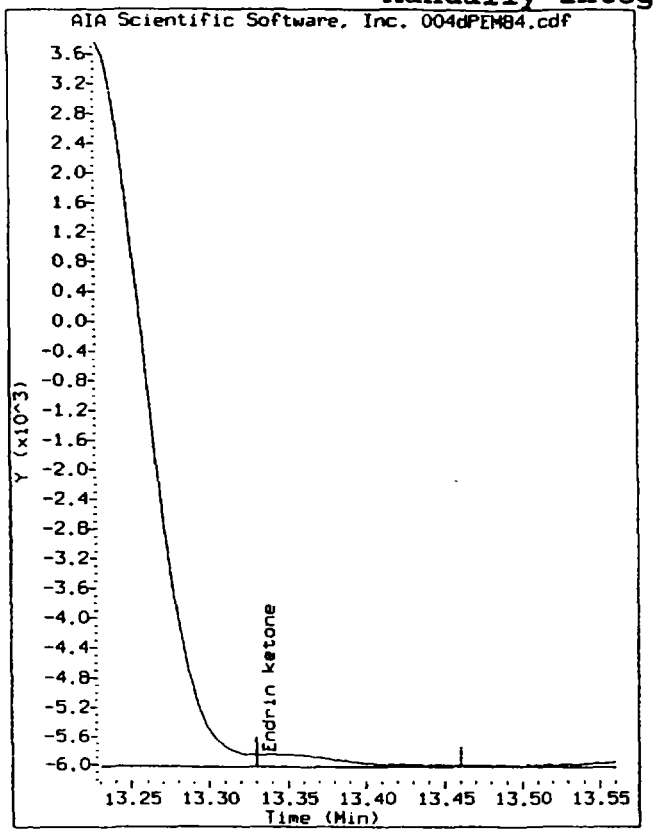


Start: 5.51 Stop: 5.66



Start: 13.06 Stop: 13.33

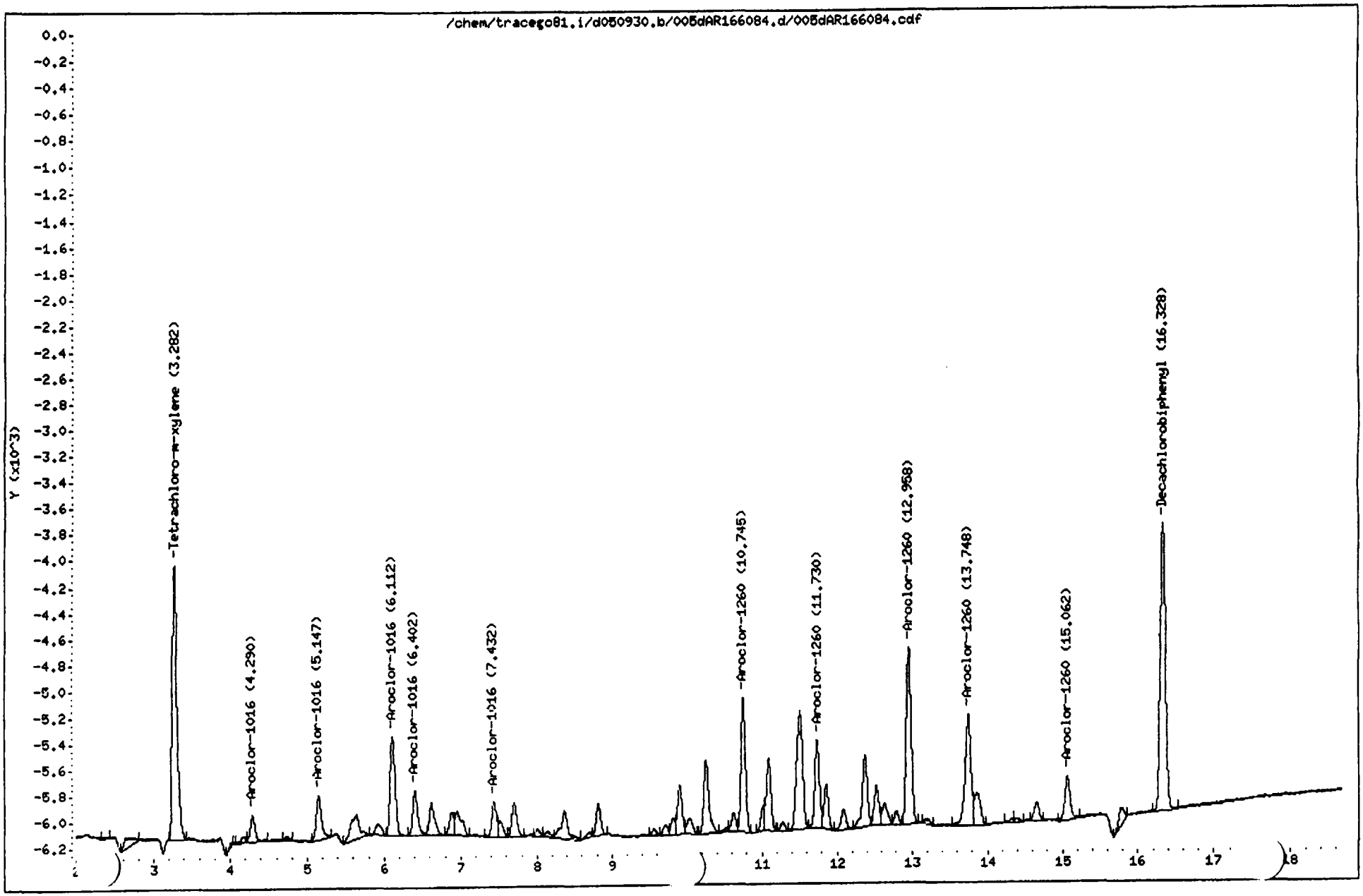
Manually Integrated Peaks



Start: 13.33 Stop: 13.46

Data File: /chem/tracego81.i/d050930.b/005dAR166084.d
Date : 30-SEP-2005 18:32
Client ID: AR166084
Sample Info: AR166084
Volume Injected (uL): 1.0
Column phase: olpest2

Instrument: tracego81.i
Operator: 2512
Column diameter: 0.53



CompuChem Environmental Corporation

Lab Smp Id : AR166084 Client Smp Id : AR166084
Sample Type : INITIAL CAL: Level 2 Sublist : AR1660
Inj Date : 30-SEP-2005 18:32 Inst ID : TRACEGC81
Operator : 2512
Method : /chem/tracegc81.i/d050930.b/2ulOLM04_clpest2v6.m
Misc. Info : None

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
0.14			2146					
0.57			15546					
0.67			4440					
0.86			126					
1.12			366					
1.22			566					
1.35			1953					
1.68			700					
1.80			189					
1.94			70					
2.35			54					
2.65			609					
3.28	3.22	3.32	8867	423700	Tetrachloro-m-xylene	0.020000		M
4.04			111					
4.17			215					
4.29	4.22	4.36	964	9640	Aroclor-1016 Peak 1	0.100000	9640.000	
4.73			100					
5.15	5.08	5.22	1630	16300	Aroclor-1016 Peak 2	0.100000	16300	
5.64			1565					
5.92			463					
6.11	6.04	6.18	3528	35280	Aroclor-1016 Peak 3	0.100000	35280	
6.40	6.33	6.47	1651	16500	Aroclor-1016 Peak 4	0.100000	16500	
6.62			1266					
6.88			782					
6.95			1107					
7.43	7.37	7.51	1155	11550	Aroclor-1016 Peak 5	0.100000	11550	M
7.51			493					
7.70			1203					
8.00			211					
8.13			163					
8.37			1332					
8.70			160					
8.82			1004					
9.55			225					
9.71			351					
9.80			494					
9.90			1625					
10.03			636					
10.26			2693					
10.53			138					
10.62			600					
10.74	10.67	10.81	4378	43770	Aroclor-1260 Peak 1	0.100000	43770	

1 of 3

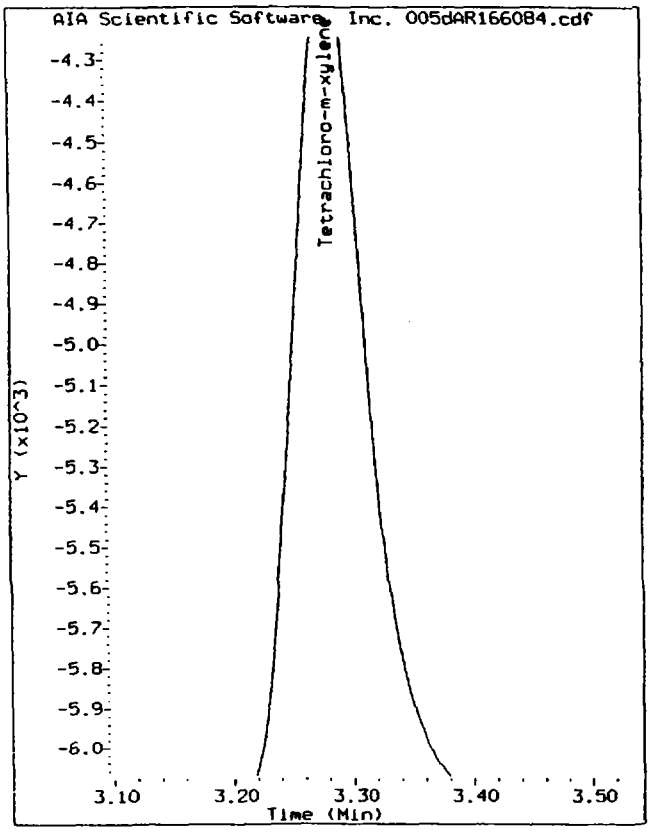
TAJ 10/4/05

CompuChem Environmental Corporation

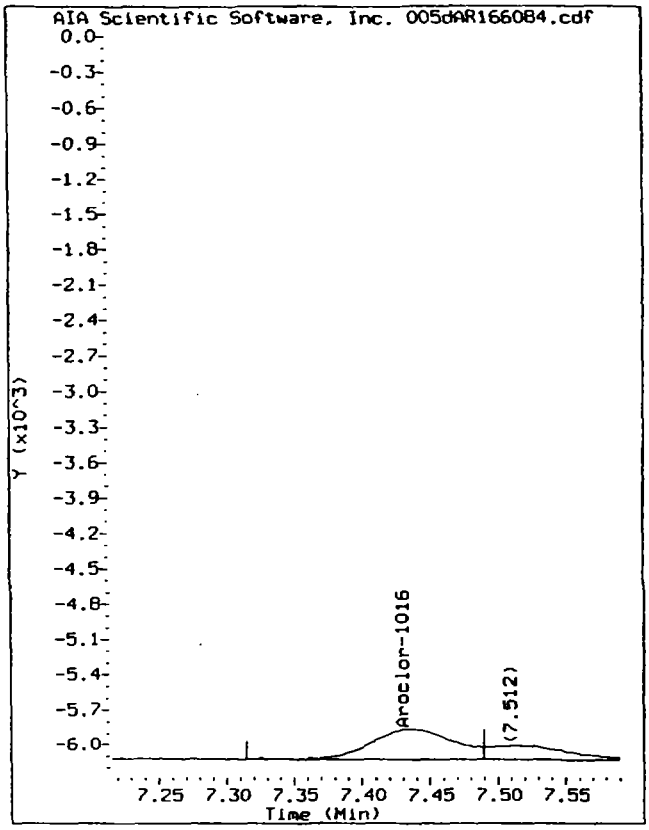
Lab Smp Id : AR166084 Client Smp Id : AR166084
Sample Type : INITIAL CAL: Level 2 Sublist : AR1660
Run Date : 30-SEP-2005 18:32 Inst ID :
Operator : 2512
Method : /chem/tracegc81.i/d050930.b/2ulOLM04_clpest2v6.m
Misc. Info : None

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
11.02		599					
11.09		2513					
11.27		274					
11.51		5115					
11.73	11.66 11.80	2919	29190	Aroclor-1260 Peak 2	0.100000	29190	
11.85		1370					
12.08		739					
12.37		2611					
12.52		1347					
12.62		862					
12.80		382					
12.96	12.89 13.03	6112	61120	Aroclor-1260 Peak 3	0.100000	61120	
13.20		196					
13.75	13.68 13.82	4676	46750	Aroclor-1260 Peak 4	0.100000	46750	
13.86		1378					
14.32		106					
14.38		146					
14.65		691					
15.06	14.99 15.13	1622	16220	Aroclor-1260 Peak 5	0.100000	16220	
15.78		695					
16.33	16.23 16.43	10757	482325	Decachlorobiphenyl	0.040000		

Manually Integrated Peaks

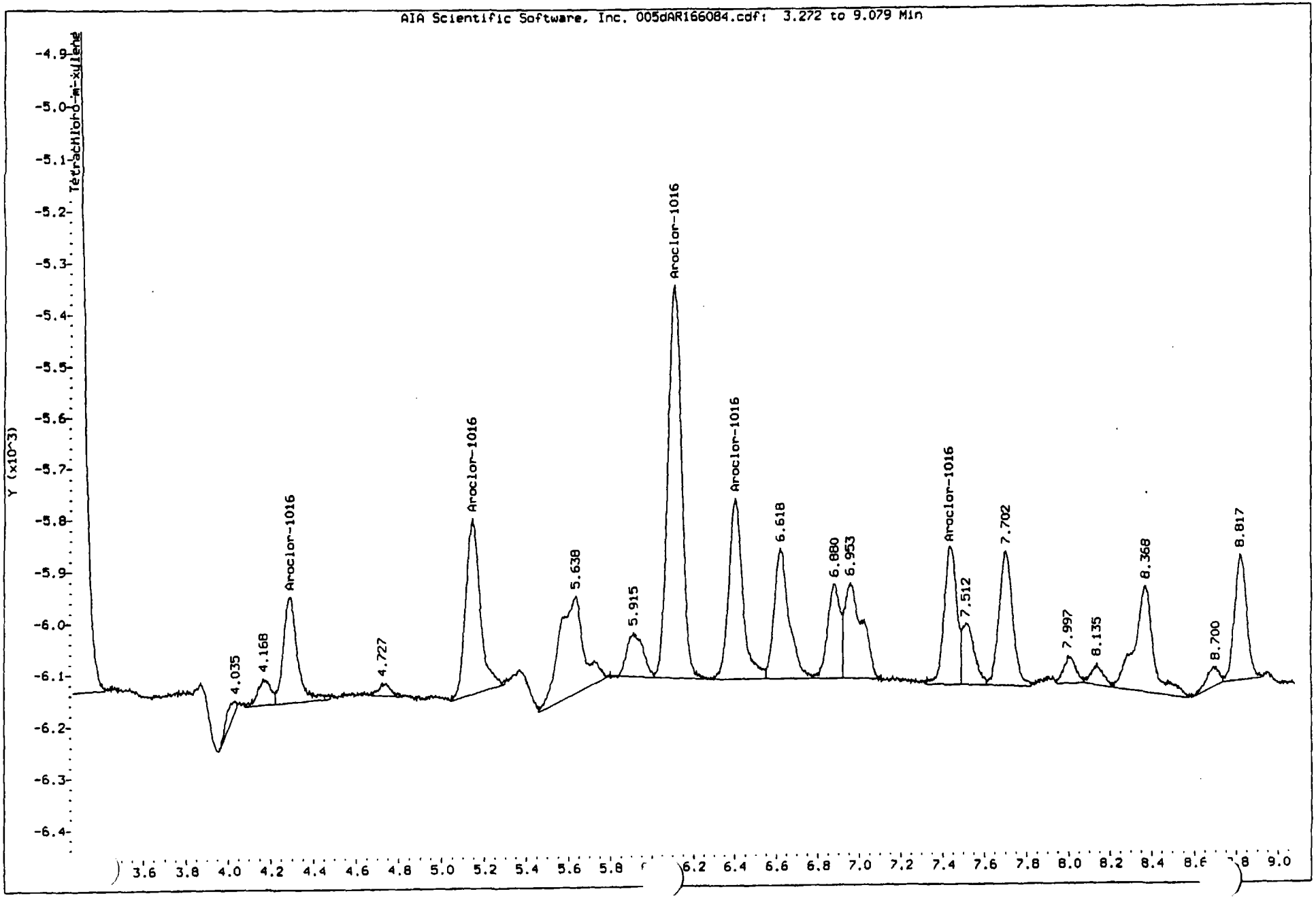


Start: 3.20 Stop: 3.42

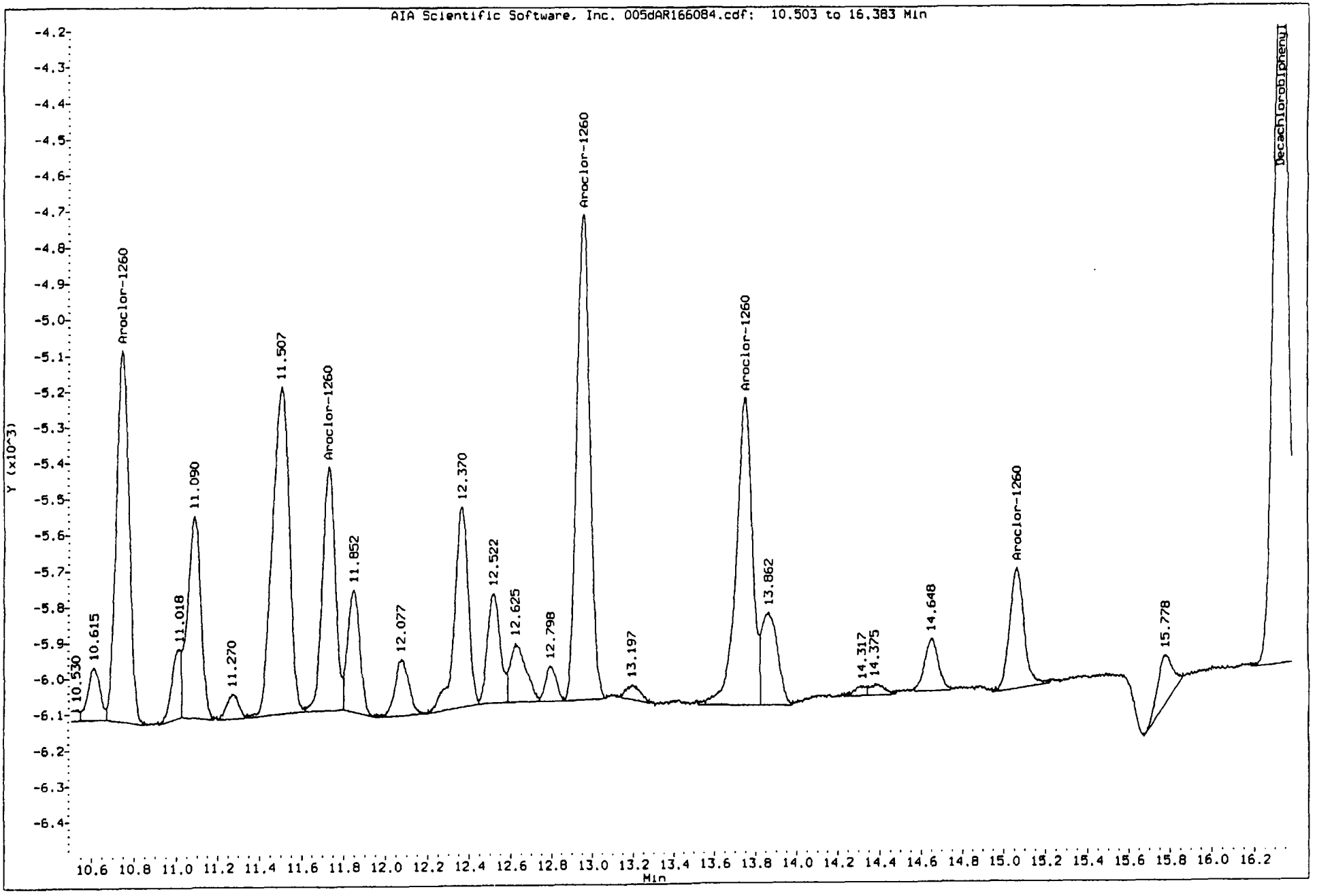


Start: 7.32 Stop: 7.49

Data File: /chem/tracegc81.i/d050930.b/005dAR166084.d/005dAR166084.cdf
Injection Date: 30-SEP-2005 18:32
Instrument: tracegc81.i
Client Sample ID: AR166084



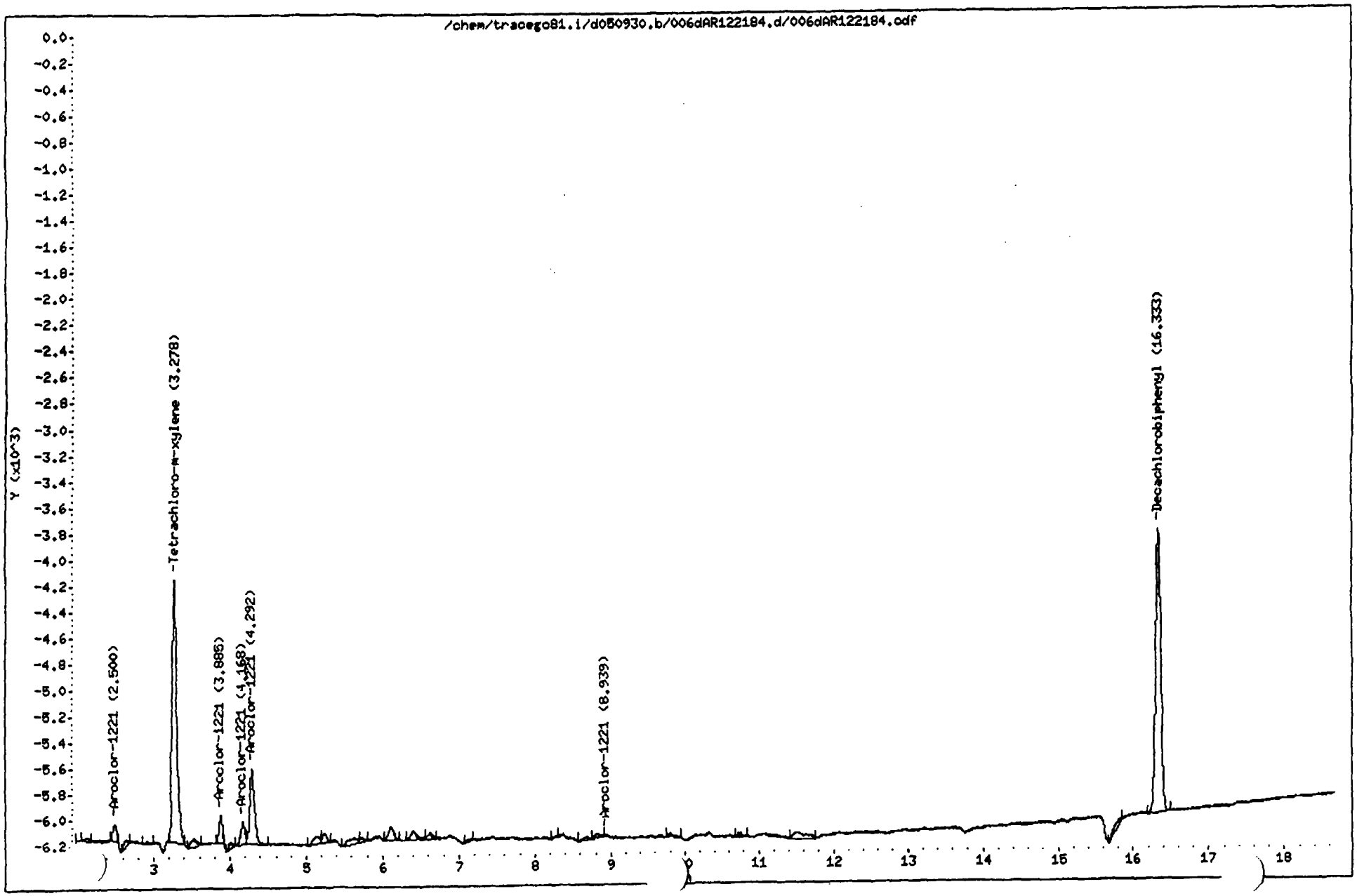
Data File: /chem/tracegc81.i/d050930.b/005dAR166084.d/005dAR166084.cdf
Injection Date: 30-SEP-2005 18:32
Instrument: tracegc81.i
Client Sample ID: AR166084



Data File: /chem/tracego81.i/d050930.b/006dAR122184.d
Date : 30-SEP-2005 18:54
Client ID: AR122184
Sample Info: AR122184
Volume Injected (uL): 1.0
Column phase: clpest2

Instrument: tracego81.i

Operator: 2512
Column diameter: 0.53



CompuChem Environmental Corporation

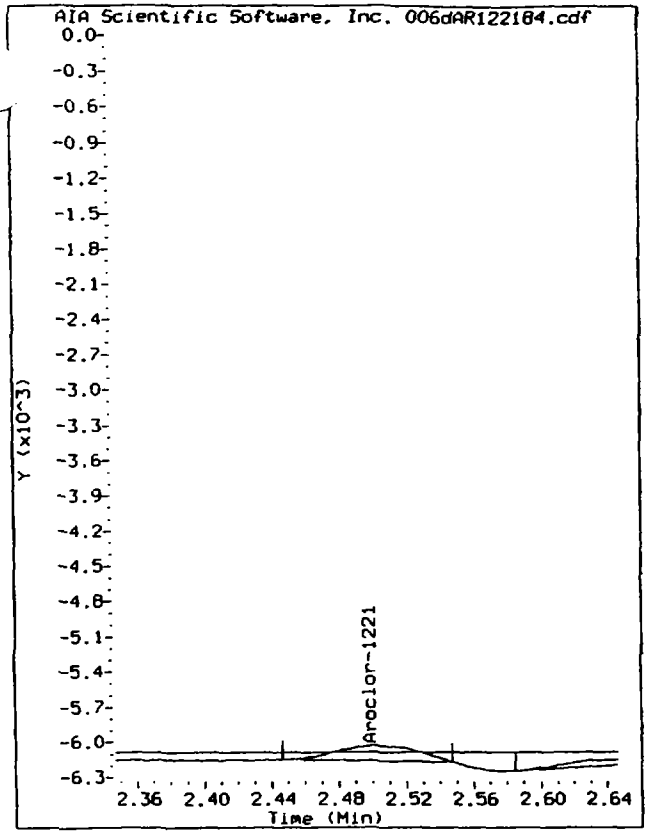
Lab Smp Id : AR122184 Client Smp Id : AR122184
Sample Type : INITIAL CAL: Level 2 Sublist : AR1221
Inj Date : 30-SEP-2005 18:54 Inst ID : TRACEGC81
Operator : 2512
Method : /chem/tracegc81.i/d050930.b/2ul0LM04_clpest2v6.m
Misc. Info : None

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
0.13			832					
0.57			9122					
0.67			3924					
0.86			888					
1.11			269					
1.35			352					
1.68			699					
1.81			152					
1.94			99					
2.14			111					
2.50	2.43	2.57	429	2145	Aroclor-1221 Peak 1	0.200000	2145.000	M
2.65			197					
2.94			61					
3.28	3.22	3.32	8583	423700	Tetrachloro-m-xylene	0.020000		M
3.54			335					
3.88	3.81	3.95	670	3345	Aroclor-1221 Peak 2	0.200000	3345.000	M
4.03			181					
4.17	4.10	4.24	664	3320	Aroclor-1221 Peak 3	0.200000	3320.000	
4.29	4.22	4.36	2601	13000	Aroclor-1221 Peak 4	0.200000	13000	
5.16			407					
5.25			298					
5.64			460					
5.74			151					
6.11			476					
6.40			378					
6.62			194					
7.16			59					
8.28			68					
8.70			120					
8.83			175					
9.82			194					
10.75			119					
11.52			615					
15.84			368					
16.33	16.23	16.43	10654	482325	Decachlorobiphenyl	0.040000		

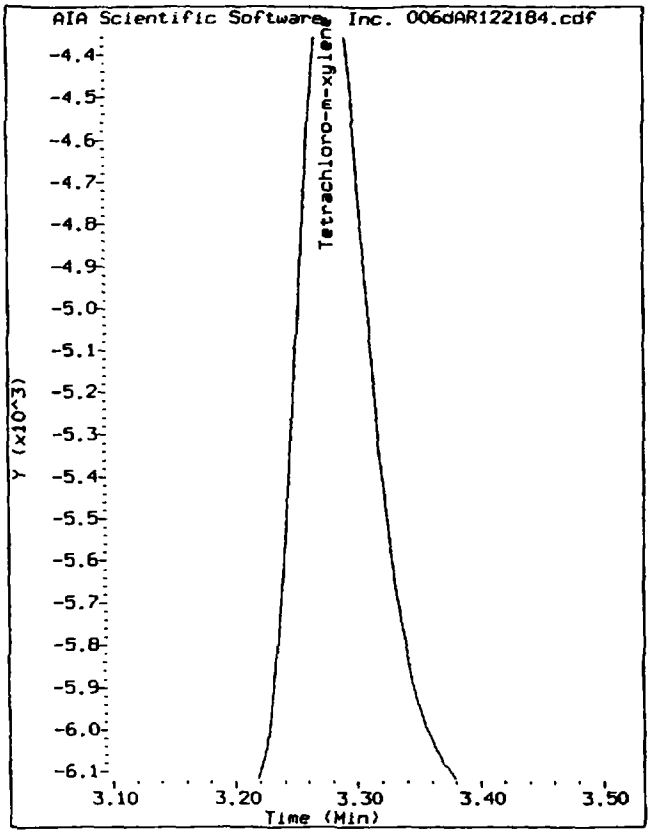
4 of 15

TAJ 10/4/05

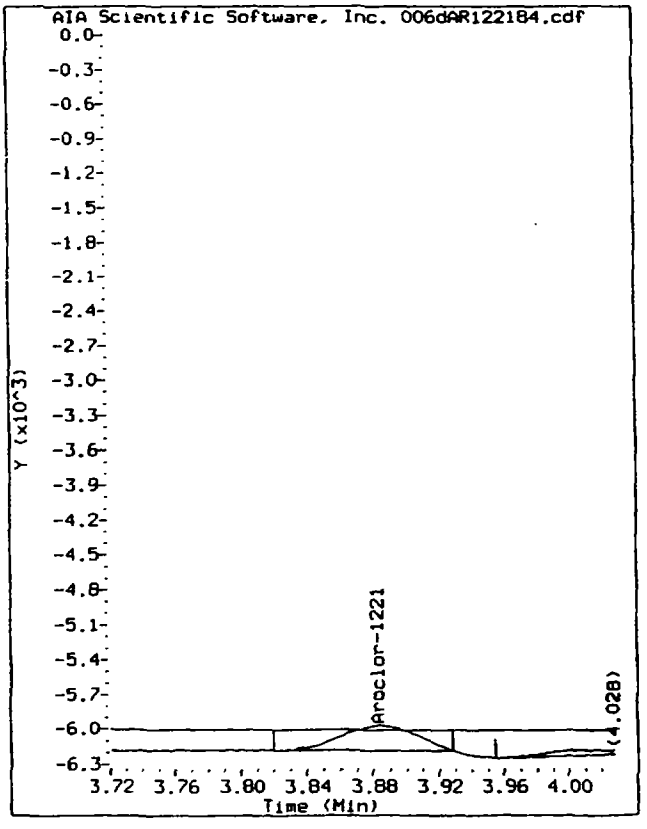
Manually Integrated Peaks



Start: 2.45 Stop: 2.55

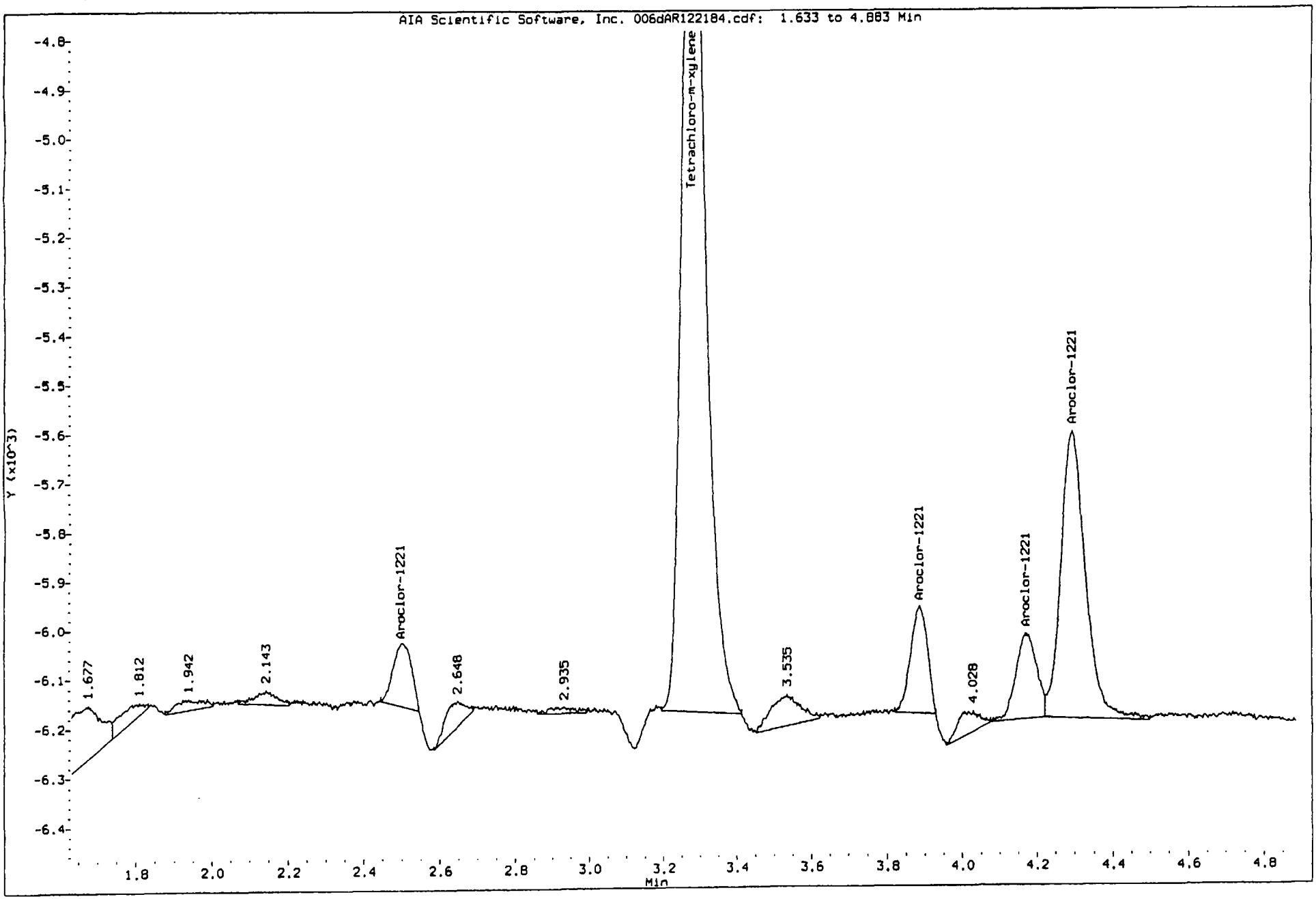


Start: 3.20 Stop: 3.41



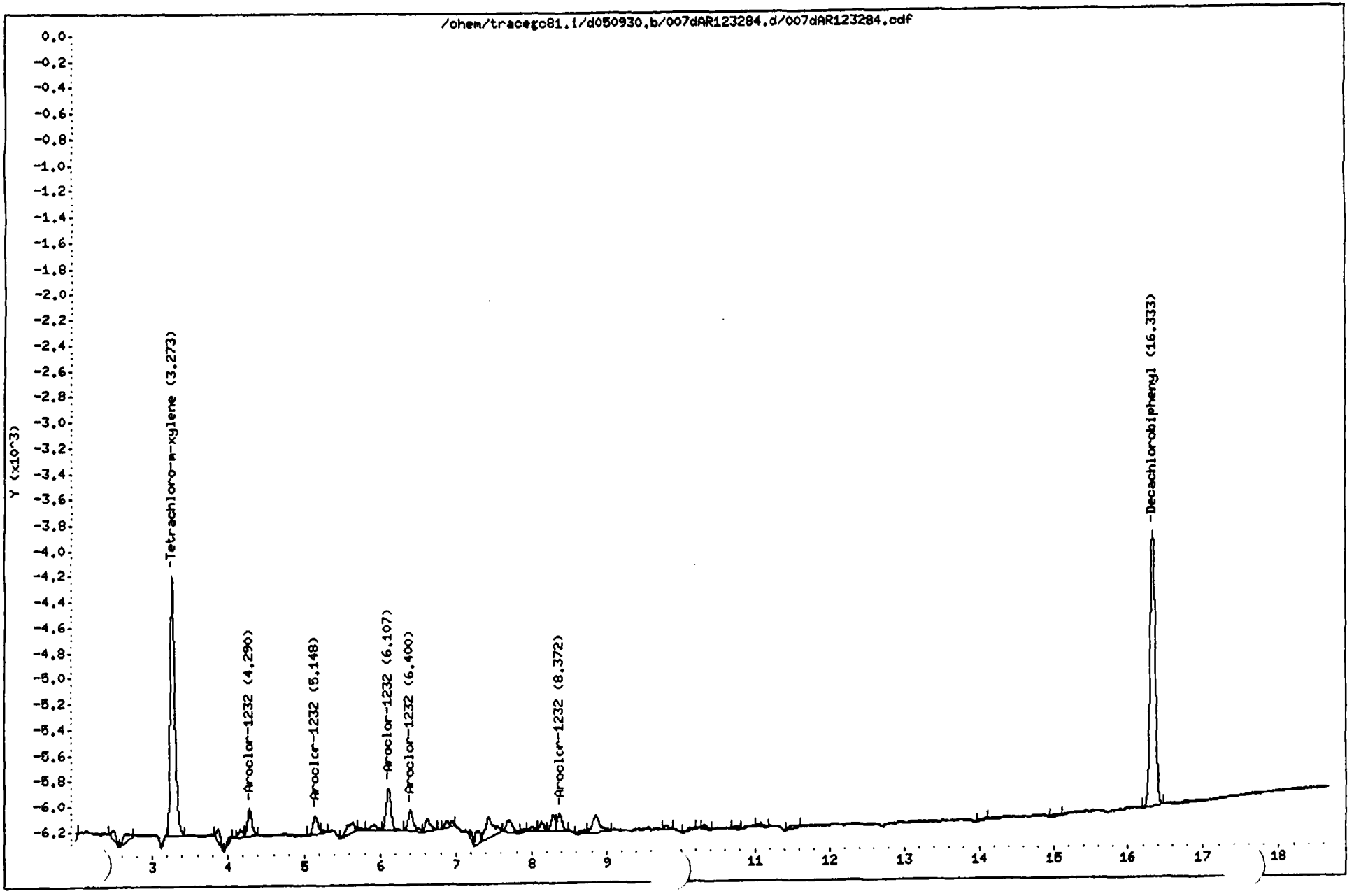
Start: 3.82 Stop: 3.93

Data File: /chem/tracegc81.i/d050930.b/006dAR122184.d/006dAR122184.cdf
Injection Date: 30-SEP-2005 18:54
Instrument: tracegc81.i
Client Sample ID: AR122184



Data File: /chem/tracegc81.i/d050930.b/007dAR123284.d
Date : 30-SEP-2005 19:15
Client ID: AR123284
Sample Info: AR123284
Volume Injected (uL): 1.0
Column phase: clpest2

Instrument: tracegc81.i
Operator: 2512
Column diameter: 0.53



CompuChem Environmental Corporation

Lab Smp Id : AR123284 Client Smp Id : AR123284
Sample Type : INITIAL CAL: Level 2 Sublist : AR1232
Inj Date : 30-SEP-2005 19:15 Inst ID : TRACEGC81
Operator : 2512
Method : /chem/tracegc81.i/d050930.b/2ulOLM04_clpest2v6.m
Misc. Info : None

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
0.13			905					
0.53			2261					
0.57			2791					
0.64			1200					
0.67			3968					
0.85			697					
1.09			355					
1.35			627					
1.67			786					
1.81			625					
1.94			287					
2.50			389					
2.65			426					
3.27	3.22	3.32	8549	423700	Tetrachloro-m-xylene	0.020000		M2
3.88			390					
4.04			127					
4.17			258					
4.29	4.22	4.36	942	9410	Aroclor-1232 Peak 1	0.100000	9410.000	
5.15	5.08	5.22	675	6740	Aroclor-1232 Peak 2	0.100000	6740.000	M2
5.25			103					
5.58			608					
5.71			82					
5.92			253					
6.11	6.04	6.18	1502	15020	Aroclor-1232 Peak 3	0.100000	15020	
6.40	6.33	6.47	817	8170	Aroclor-1232 Peak 4	0.100000	8170.000	
6.62			454					
6.88			291					
7.21			143					
7.28			456					
7.44			1267					
7.68			538					
7.91			92					
8.01			140					
8.13			252					
8.29			514					
8.37	8.30	8.44	556	5550	Aroclor-1232 Peak 5	0.100000	5550.000	
8.69			184					
8.86			906					
9.81			154					
10.14			125					
10.34			124					
10.75			100					

1 of 1

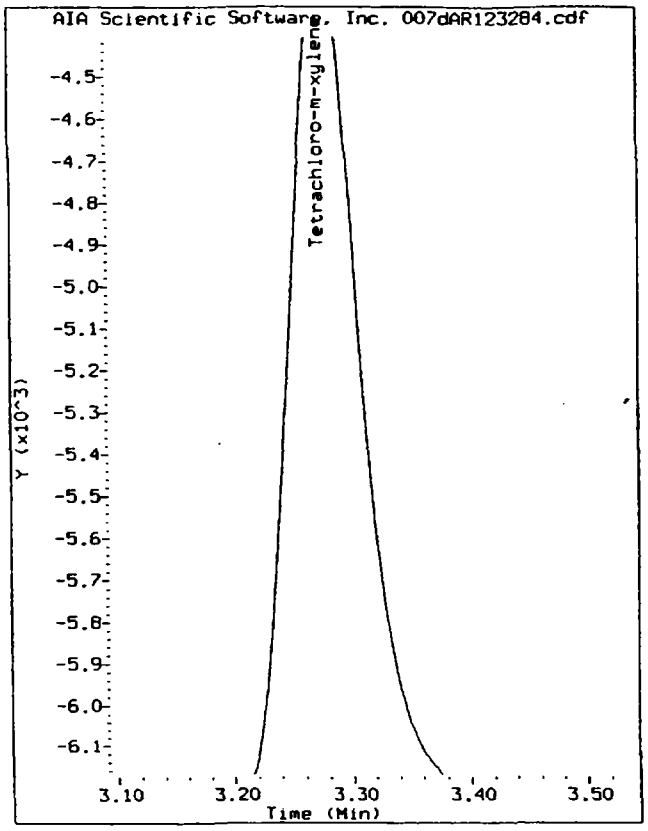
TAJ 10/4/05

CompuChem Environmental Corporation

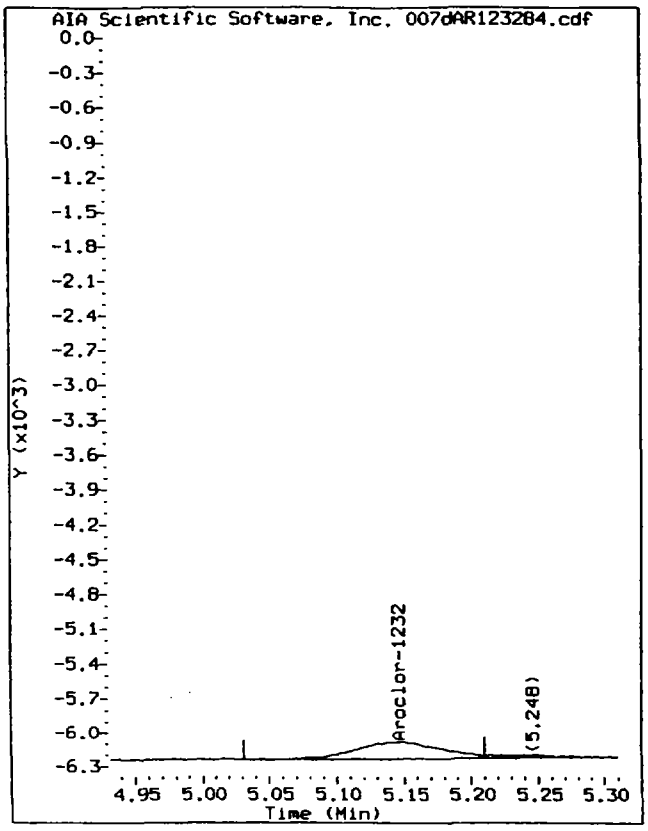
Smp Id : AR123284 Client Smp Id : AR123284
Sample Type : INITIAL CAL: Level 2 Sublist : AR1232
Inj Date : 30-SEP-2005 19:15 Inst ID :
Operator : 2512
Method : /chem/tracegc81.i/d050930.b/2ulOLM04_clpest2v6.m
Misc. Info : None

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
11.07		167					
11.50		185					
14.09		89					
15.04		101					
16.33	16.23 16.43	10585	482325	Decachlorobiphenyl	0.040000		

Manually Integrated Peaks

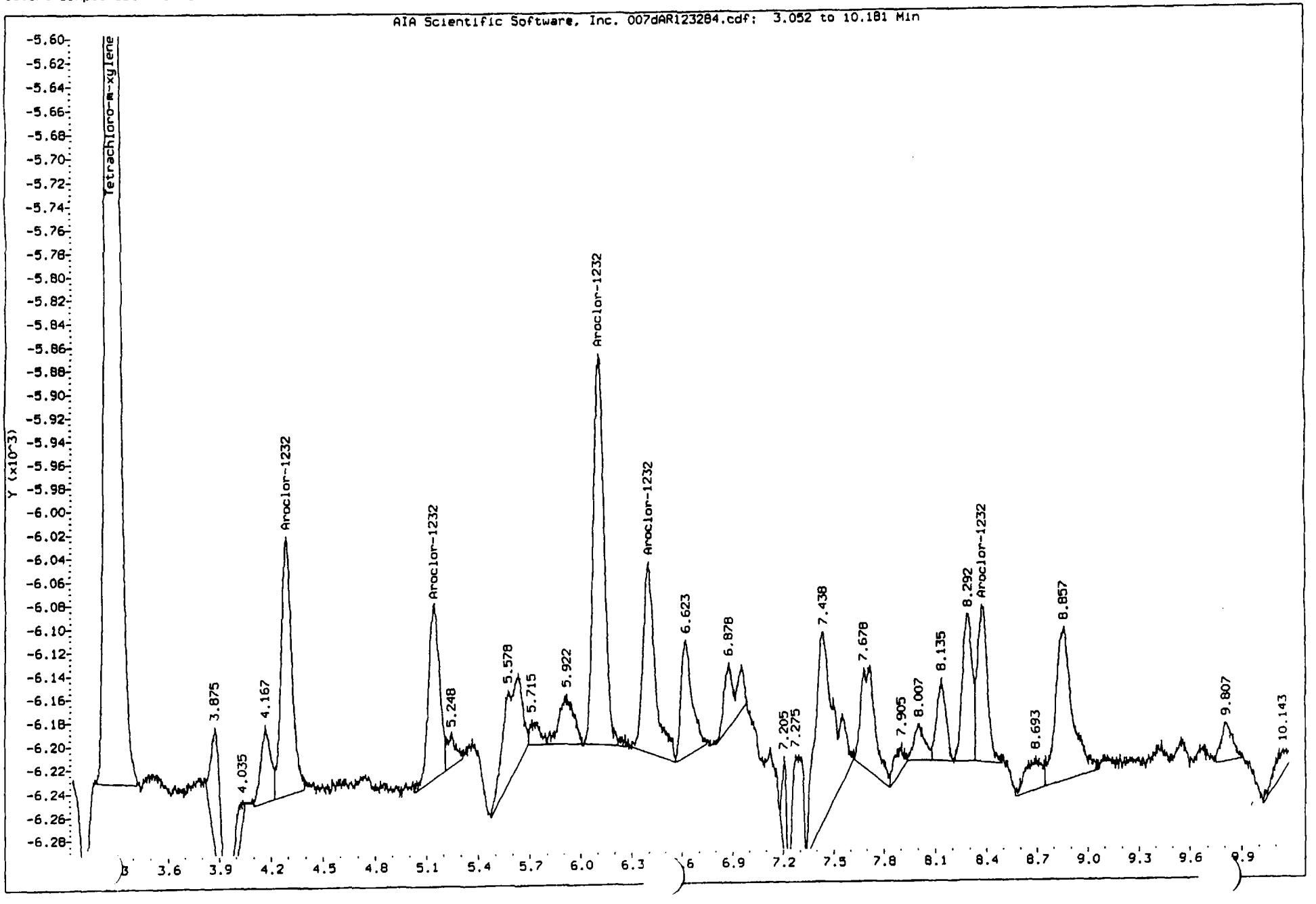


Start: 3.19 Stop: 3.42



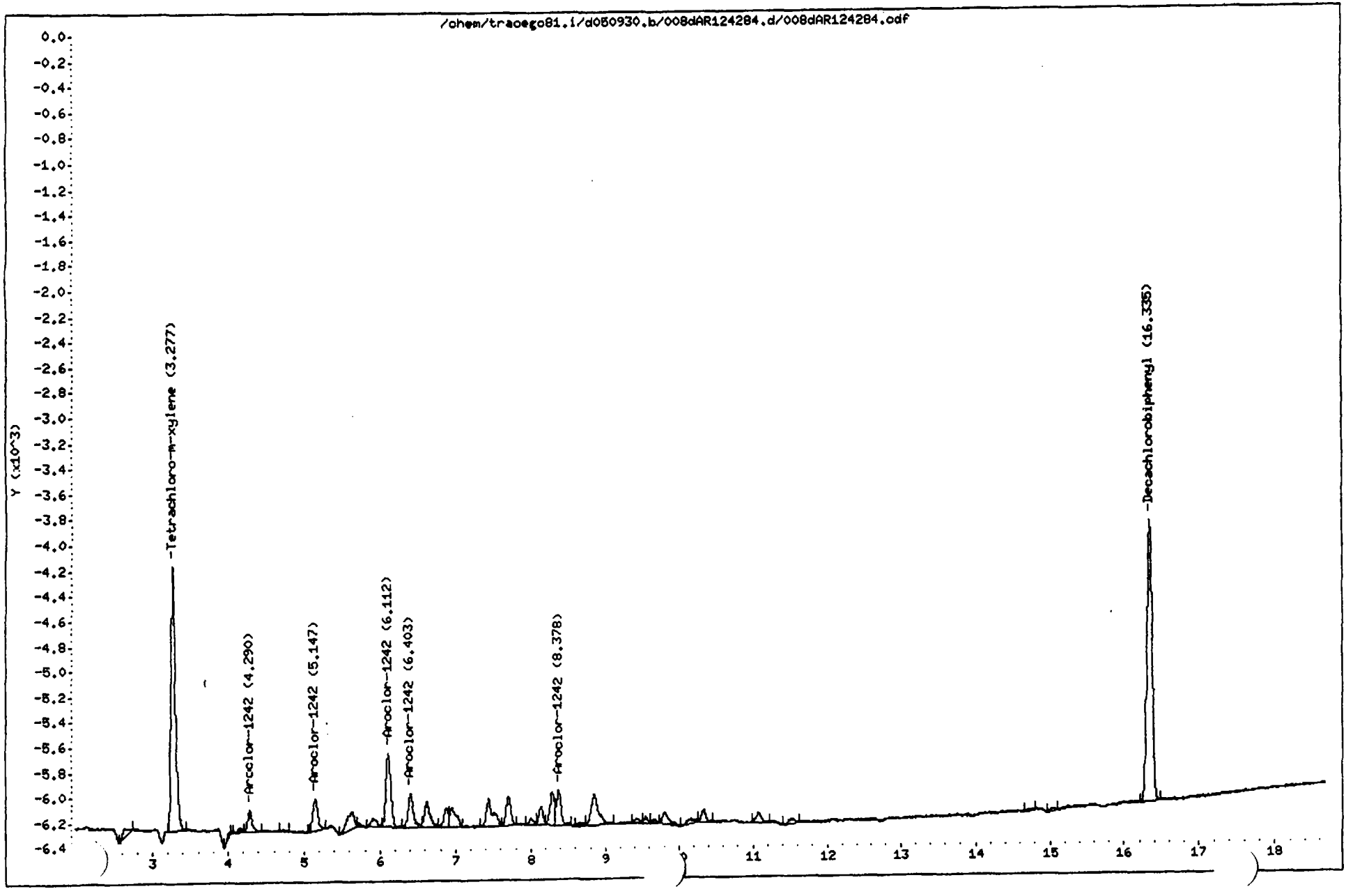
Start: 5.03 Stop: 5.21

Data File: /chem/tracegc81.i/d050930.b/007dAR123284.d/007dAR123284.cdf
Injection Date: 30-SEP-2005 19:15
Instrument: tracegc81.i
Client Sample ID: AR123284



Data File: /chem/tracego81.i/d050930.b/008dAR124284.d
Date : 30-SEP-2005 19:37
Client ID: AR124284
Sample Info: AR124284
Volume Injected (uL): 1.0
Column phase: clpest2

Instrument: tracego81.i
Operator: 2512
Column diameter: 0.53



Data File: /chem/tracegc81.i/d050930.b/008dAR124284.d Page 1
Report Date 10/03/2005 12:44

CompuChem Environmental Corporation

Lab Smp Id : AR124284 Client Smp Id : AR124284
Sample Type : INITIAL CAL: Level 2 Sublist : AR1242
Inj Date : 30-SEP-2005 19:37 Inst ID : TRACEGC81
Operator : 2512
Method : /chem/tracegc81.i/d050930.b/2ulOLM04_clpest2v6.m
Misc. Info : None

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
0.13			1958					
0.54			4478					
0.57			4451					
0.63			1315					
0.67			3628					
0.85			156					
1.12			233					
1.35			133					
1.67			460					
1.80			151					
1.96			73					
2.65			371					
3.28	3.22	3.32	8767	423700	Tetrachloro-m-xylene	0.020000		M
4.03			119					
4.16			160					
4.29	4.22	4.36	766	7660	Aroclor-1242 Peak 1	0.100000	7660.000	
4.73			75					
5.15	5.08	5.22	1250	12500	Aroclor-1242 Peak 2	0.100000	12500	
5.61			994					
5.74			127					
5.91			384					
6.11	6.04	6.18	2646	26460	Aroclor-1242 Peak 3	0.100000	26460	
6.40	6.33	6.47	1282	12810	Aroclor-1242 Peak 4	0.100000	12810	
6.61			1005					
6.88			573					
6.96			891					
7.43			1375					
7.70			1040					
8.01			240					
8.14			620					
8.29			1092					
8.38	8.31	8.45	1219	12190	Aroclor-1242 Peak 5	0.100000	12190	
8.69			185					
8.85			1725					
9.42			195					
9.56			179					
9.66			139					
9.81			594					
10.16			335					
10.33			452					
11.07			398					
11.52			263					

10/3/5

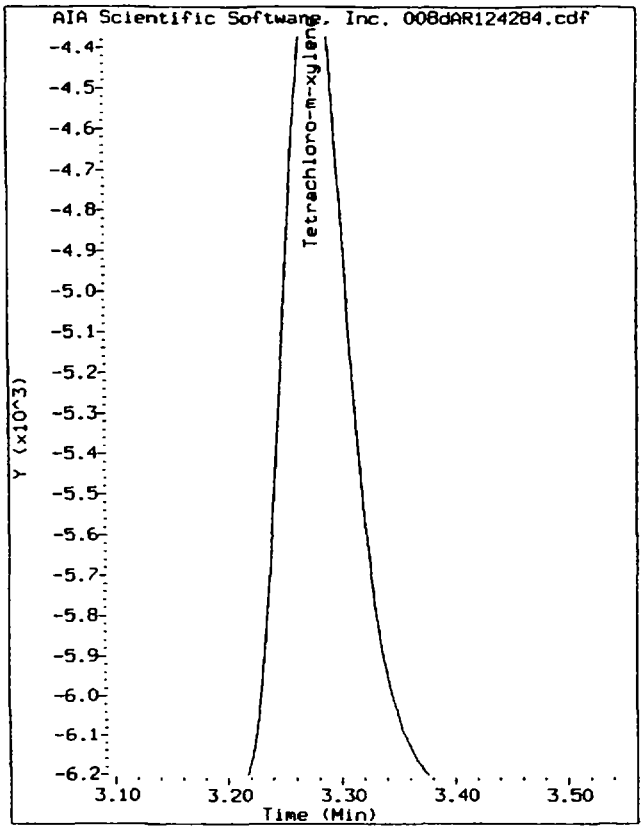
TAJ 10/4/05

CompuChem Environmental Corporation

Smp Id	: AR124284	Client Smp Id	: AR124284
Sample Type	: INITIAL CAL: Level 2	Sublist	: AR1242
Inj Date	: 30-SEP-2005 19:37	Inst ID	:
Operator	: 2512		
Method	: /chem/tracegc81.i/d050930.b/2ulOLM04_clpest2v6.m		
Misc. Info	: None		

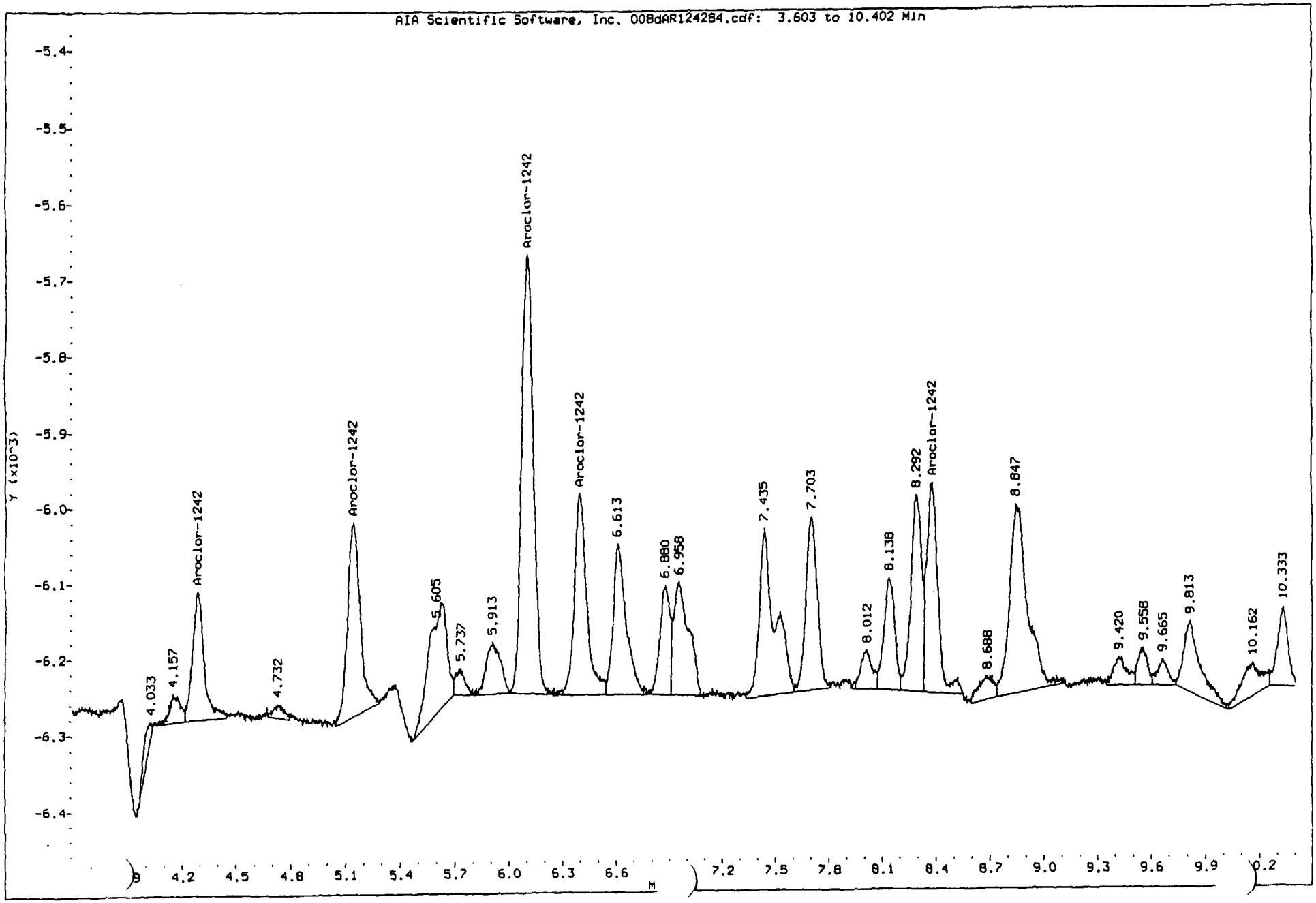
RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
14.75		75					
15.03		92					
16.34	16.23 16.43	10900	482325	Decachlorobiphenyl	0.040000		

Manually Integrated Peaks



Start: 3.19 Stop: 3.44

Data File: /chem/tracegc81.i/d050930.b/008dAR124284.d/008dAR124284.cdf
Injection Date: 30-SEP-2005 19:37
Instrument: tracegc81.i
Client Sample ID: AR124284



Data File: /chem/tracegc81.i/d050930.b/009dAR124884.d

Date : 30-SEP-2005 19:59

Client ID: AR124884

Sample Info: AR124884

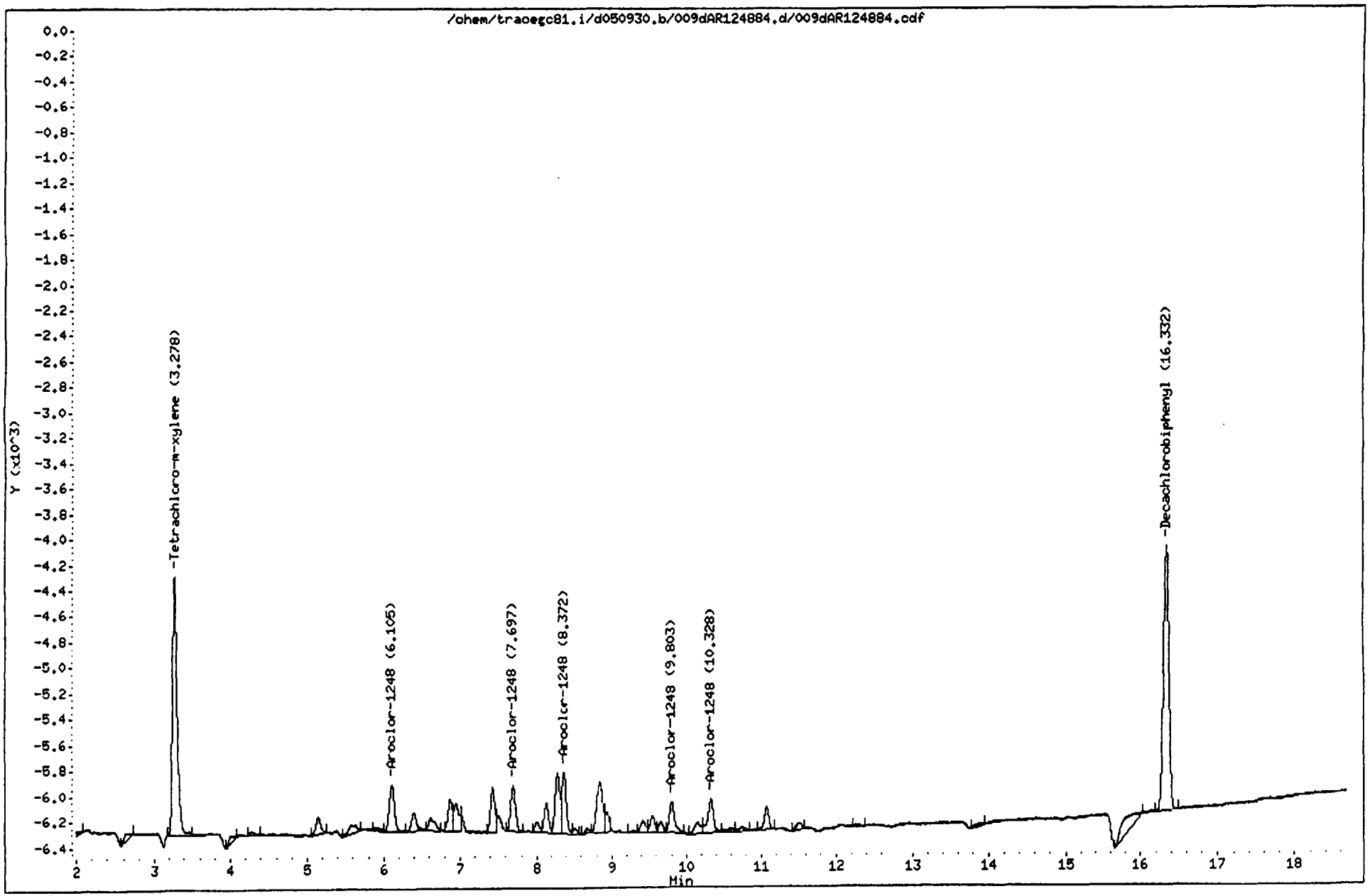
Volume Injected (uL): 1.0

Column phase: olpest2

Instrument: tracegc81.i

Operator: 2512

Column diameter: 0.53



CompuChem Environmental Corporation

Smp Id : AR124884 Client Smp Id : AR124884
ple Type : INITIAL CAL: Level 2 Sublist : AR1248
Date : 30-SEP-2005 19:59 Inst ID : TRACEGC81
Operator : 2512
Method : /chem/tracegc81.i/d050930.b/2ulOLM04_clpest2v6.m
Misc. Info : None

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
0.13			1948					
0.57			19356					
0.67			4459					
0.85			245					
1.12			307					
1.34			142					
1.68			441					
1.78			149					
1.95			164					
2.65			286					
3.28	3.22	3.32	8497	423700	Tetrachloro-m-xylene	0.020000		M2
4.02			259					
4.29			112					
5.14			611					
5.59			483					
5.91			131					
6.10	6.03	6.17	1742	17410	Aroclor-1248 Peak 1	0.100000	17410	
6.40			730					
6.62			596					
6.88			1005					
6.96			1167					
7.43			1428					
7.70	7.63	7.77	1567	15660	Aroclor-1248 Peak 2	0.100000	15660	
7.91			336					
8.13			973					
8.29			1978					
8.37	8.30	8.44	1975	19740	Aroclor-1248 Peak 3	0.100000	19740	
8.52			155					
8.69			147					
8.85			2221					
8.94			538					
9.29			74					
9.42			486					
9.55			597					
9.67			372					
9.80	9.73	9.87	1172	11720	Aroclor-1248 Peak 4	0.100000	11720	
10.16			514					
10.33	10.26	10.40	1464	14640	Aroclor-1248 Peak 5	0.100000	14640	
10.60			193					
10.75			194					
11.08			780					
11.51			296					

1 of 5+

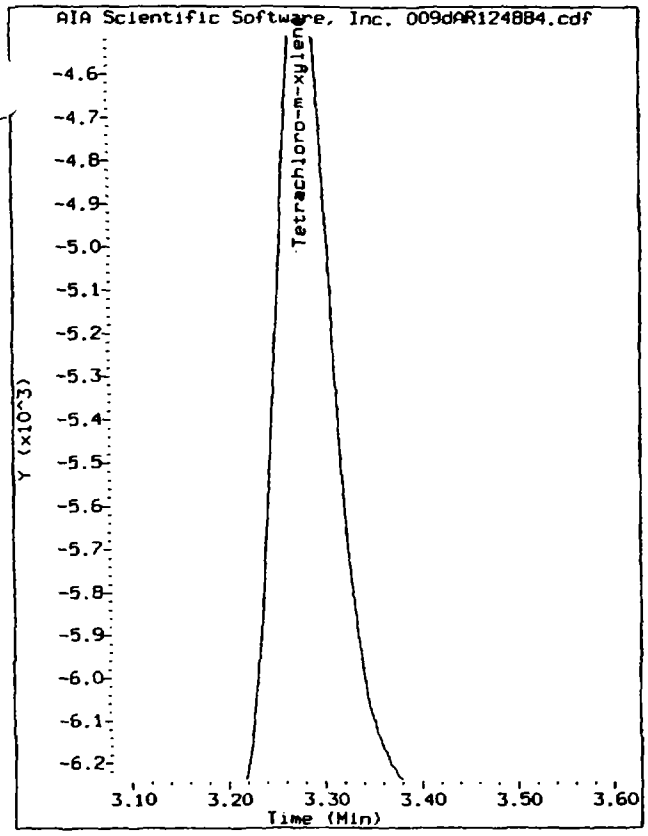
TAJ 10/4/05

CompuChem Environmental Corporation

Lab Smp Id : AR124884 Client Smp Id : AR124884
Sample Type : INITIAL CAL: Level 2 Sublist : AR1248
Inj Date : 30-SEP-2005 19:59 Inst ID :
Operator : 2512
Method : /chem/tracegc81.i/d050930.b/2ulOLM04_clpest2v6.m
Misc. Info : None

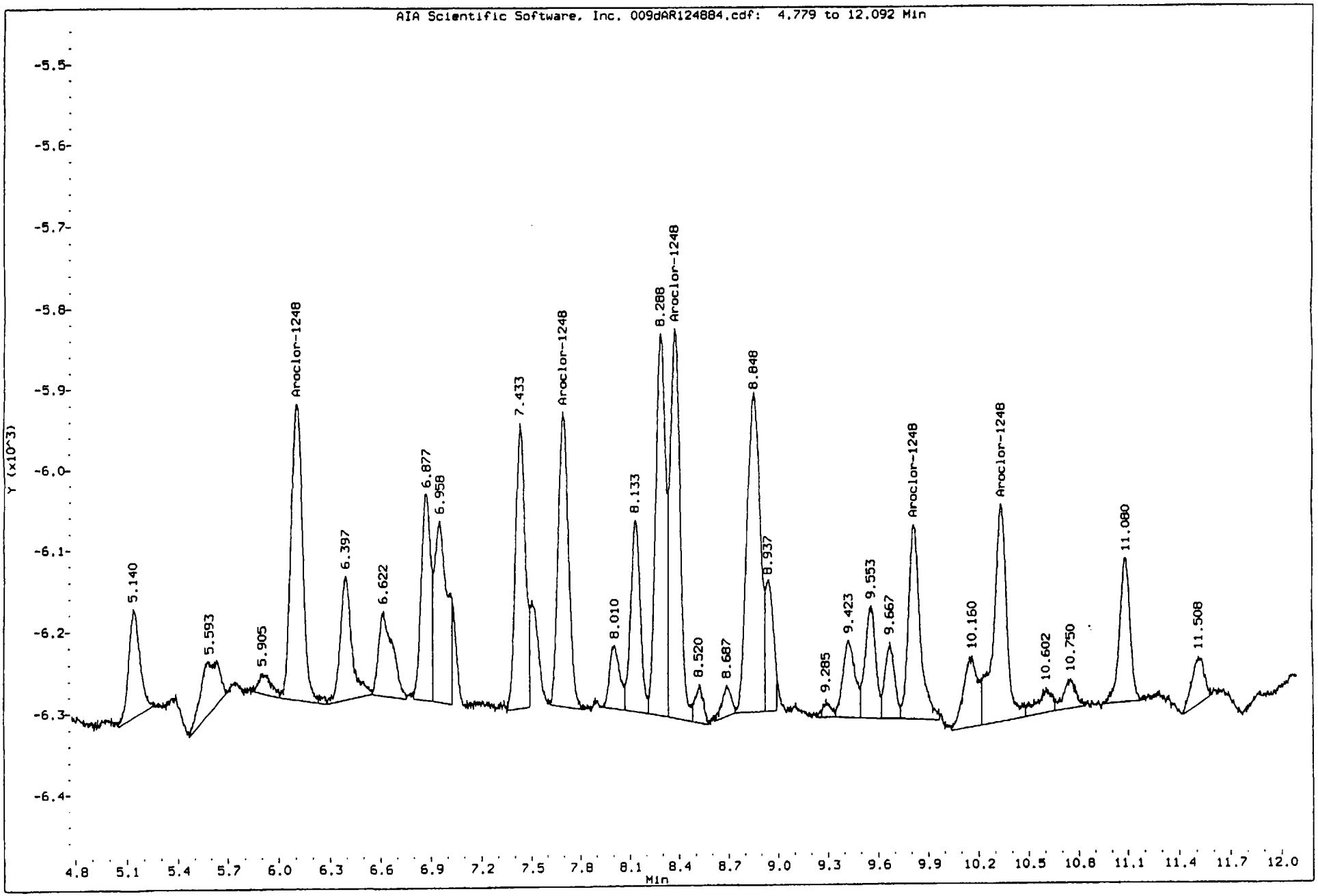
RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
12.27		95					
13.93		144					
16.02		1714					
16.33	16.23 16.43	10093	482325	Decachlorobiphenyl	0.040000		

Manually Integrated Peaks



Start: 3.18 Stop: 3.50

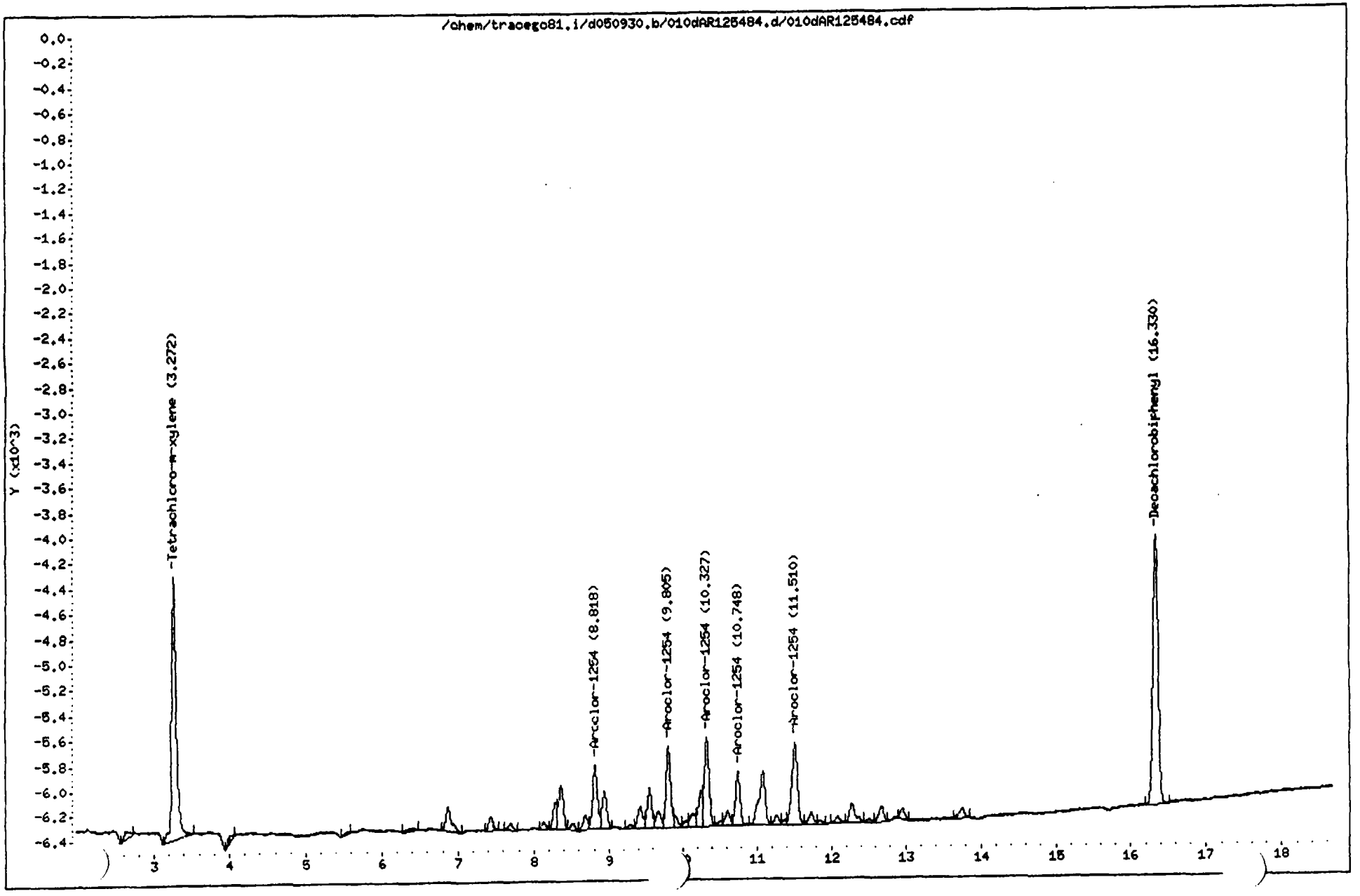
Data File: /chem/tracegc81.i/d050930.b/009dAR124884.d/009dAR124884.cdf
Injection Date: 30-SEP-2005 19:59
Instrument: tracegc81.i
Client Sample ID: AR124884



Data File: /chem/tracegc81.i/d050930.b/010dAR125484.d
Date : 30-SEP-2005 20:20
Client ID: AR125484
Sample Info: AR125484
Volume Injected (uL): 1.0
Column phase: clpest2

Instrument: tracegc81.i

Operator: 2512
Column diameter: 0.53



CompuChem Environmental Corporation

Lab Smp Id : AR125484 Client Smp Id : AR125484
Sample Type : INITIAL CAL: Level 2 Sublist : AR1254
Inj Date : 30-SEP-2005 20:20 Inst ID : TRACEGC81
Operator : 2512
Method : /chem/tracegc81.i/d050930.b/2ulOLM04_clpest2v6.m
Misc. Info : None

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
0.13			904					
0.54			1706					
0.57			1450					
0.64			938					
0.67			3513					
0.85			50					
1.10			202					
1.34			140					
1.67			434					
1.80			143					
2.64			342					
3.27	3.22	3.32	9449	423700	Tetrachloro-m-xylene	0.020000		
4.05			226					
5.57			91					
6.40			142					
6.87			1066					
7.43			480					
7.70			245					
8.13			205					
8.29			729					
8.36			1554					
8.52			207					
8.69			470					
8.82	8.75	8.89	2209	22090	Aroclor-1254 Peak 1	0.100000	22090	
8.94			1252					
9.28			171					
9.42			857					
9.55			1383					
9.68			592					
9.80	9.74	9.88	2814	28130	Aroclor-1254 Peak 2	0.100000	28130	M
9.89			338					
10.04			218					
10.15			503					
10.25			1089					
10.33	10.26	10.40	3213	32130	Aroclor-1254 Peak 3	0.100000	32130	
10.53			219					
10.61			519					
10.75	10.68	10.82	1907	19070	Aroclor-1254 Peak 4	0.100000	19070	
11.08			2576					
11.26			336					
11.38			148					
11.51	11.44	11.58	3467	34670	Aroclor-1254 Peak 5	0.100000	34670	

LDH

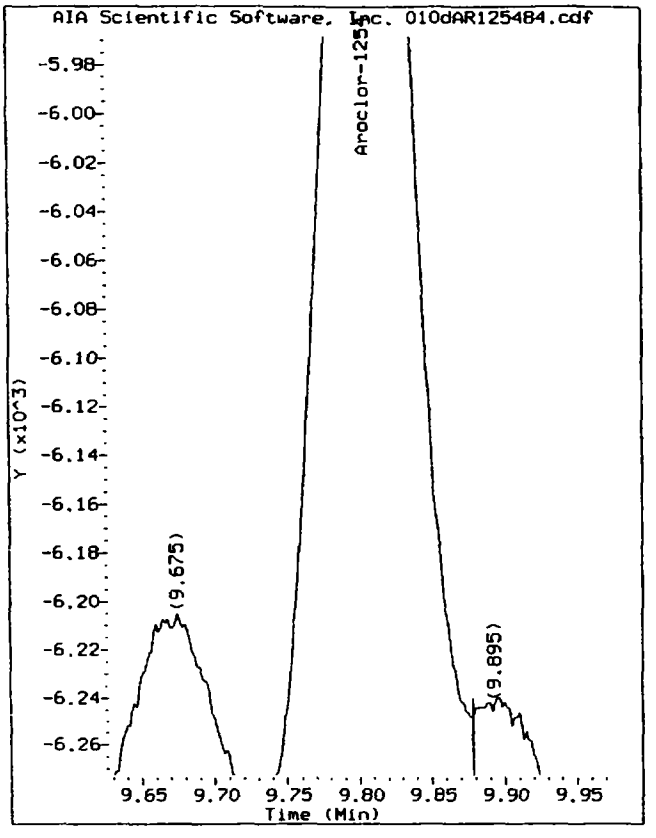
TAJ 10/4/05

CompuChem Environmental Corporation

Lab Smp Id : AR125484 Client Smp Id : AR125484
Sample Type : INITIAL CAL: Level 2 Sublist : AR1254
Run Date : 30-SEP-2005 20:20 Inst ID :
Operator : 2512
Method : /chem/tracegc81.i/d050930.b/2ulOLM04_clpest2v6.m
Misc. Info : None

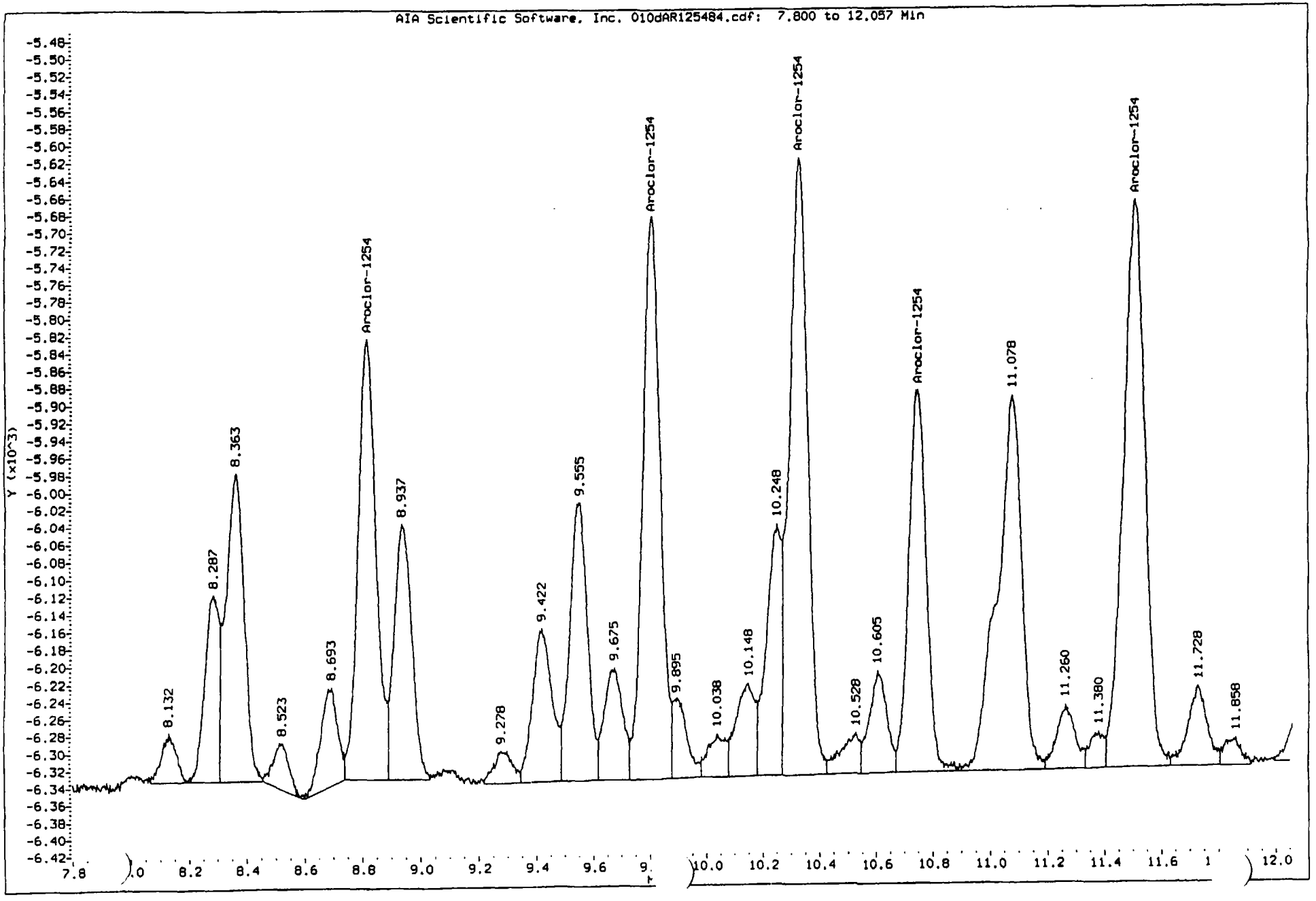
RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
11.73		436					
11.86		128					
12.09		259					
12.28		846					
12.53		150					
12.68		577					
12.95		361					
13.74		423					
16.33	16.23 16.43	10570	482325	Decachlorobiphenyl	0.040000		

Manually Integrated Peaks



Start: 9.73 Stop: 9.88

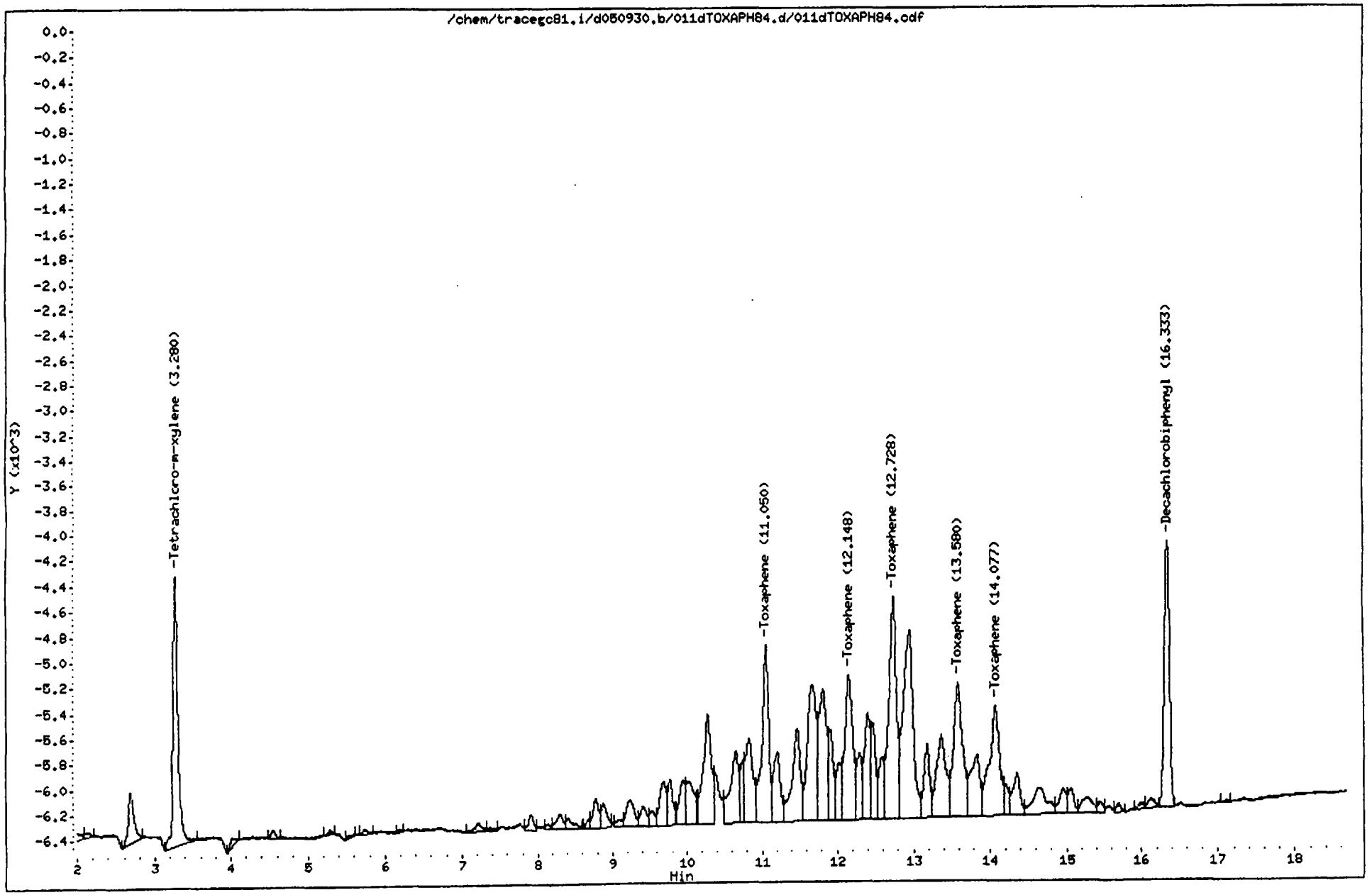
Data File: /chem/tracegc81.i/d050930.b/010dAR125484.d/010dAR125484.cdf
Injection Date: 30-SEP-2005 20:20
Instrument: tracegc81.i
Client Sample ID: AR125484



Data File: /chem/tracegc81.i/d050930.b/011dTOXAPH84.d
Date : 30-SEP-2005 20:42
Client ID: TOXAPH84
Sample Info: TOXAPH84
Volume Injected (uL): 1.0
Column phase: olpest2

Instrument: tracegc81.i

Operator: 2512
Column diameter: 0.53



CompuChem Environmental Corporation

Lab Smp Id : TOXAPH84 Client Smp Id : TOXAPH84
Sample Type : INITIAL CAL: Level 2 Sublist : TOXAPH
Run Date : 30-SEP-2005 20:42 Inst ID : TRACEGC81
Operator : 2512
Method : /chem/tracegc81.i/d050930.b/2ul0LM04_clpest2v6.m
Misc. Info : None

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
0.14		1821					
0.57		18834					
0.67		4314					
0.88		202					
1.12		272					
1.35		104					
1.68		508					
1.85		313					
1.98		522					
2.14		178					
2.69		2161					
3.28	3.22 3.32	9817	423700	Tetrachloro-m-xylene	0.020000		
4.02		352					
4.55		275					
5.28		140					
5.61		114					
5.73		152					
6.20		65					
7.22		486					
7.37		199					
7.91		576					
8.14		219					
8.31		733					
1		579					
9		234					
8.78		1186					
8.88		1082					
9.11		337					
9.24		1530					
9.41		905					
9.53		631					
9.69		2047					
9.78		1744					
9.95		1860					
10.03		2753					
10.28		6308					
10.64		4477					
10.75		1834					
10.82		4829					
11.05	10.98 11.12	8938	17876	Toxaphene Peak 1	0.500000	17876	
11.20		3646					
11.47		5708					

1 of 1HT

TAJ 10/4/05

CompuChem Environmental Corporation

Lab Smp Id : TOXAPH84 Client Smp Id : TOXAPH84
Sample Type : INITIAL CAL: Level 2 Sublist : TOXAPH
Inj Date : 30-SEP-2005 20:42 Inst ID :
Operator : 2512
Method : /chem/tracegc81.i/d050930.b/2ulOLM04_clpest2v6.m
Misc. Info : None

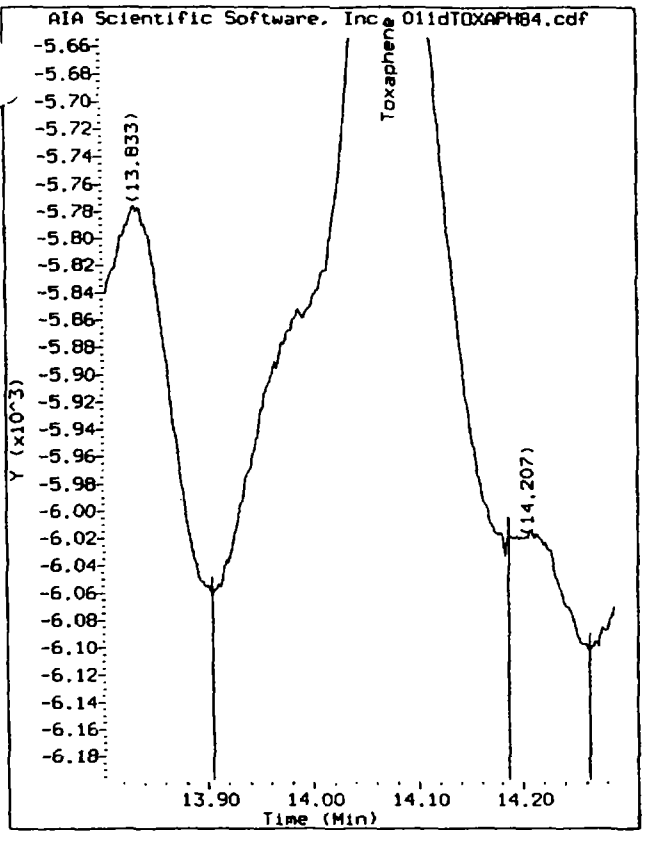
RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
11.67		8911					
11.81		7112					
11.90		3399					
12.02		2035					
12.15	12.08 12.22	8672	17342	Toxaphene Peak 2	0.500000	17342	
12.28		2436					
12.40		4280					
12.46		3428					
12.58		2173					
12.73	12.66 12.80	12567	25134	Toxaphene Peak 3	0.500000	25134	
12.94		13998					
13.18		3016					
13.36		5675					
13.58	13.51 13.65	8911	17820	Toxaphene Peak 4	0.500000	17820	
13.83		4323					
14.08	14.01 14.15	7976	15950	Toxaphene Peak 5	0.500000	15950	M
14.21		987					
14.35		2279					
14.64		2715					
14.95		1214					
15.07		1106					
15.28		1239					
15.45		431					
15.69		296					
15.90		26					
16.01		258					
16.12		446					
16.33	16.23 16.43	10331	482325	Decachlorobiphenyl	0.040000		
17.11		72					

Mz

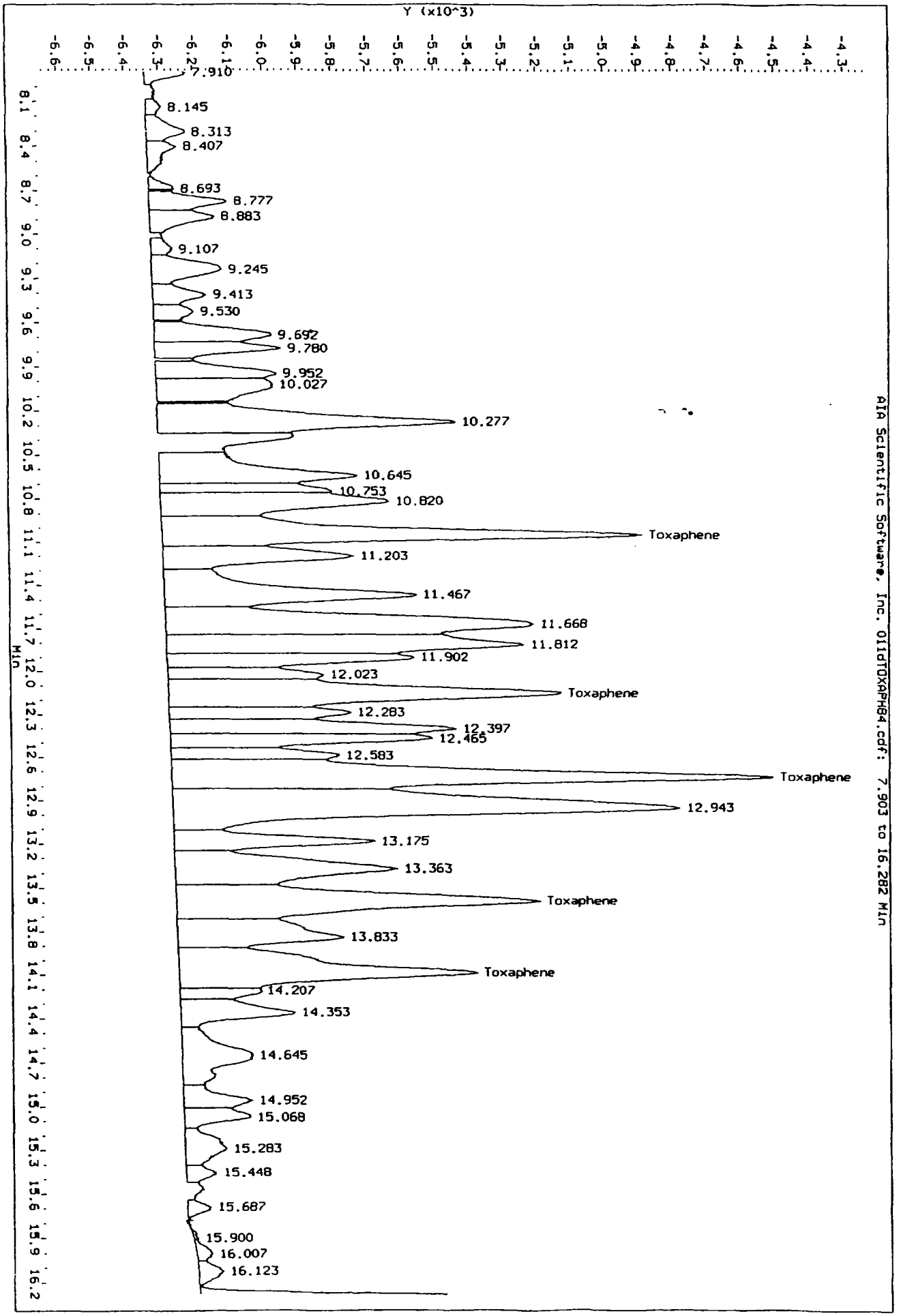
6/3/12

TAJ 10/4/05

Manually Integrated Peaks



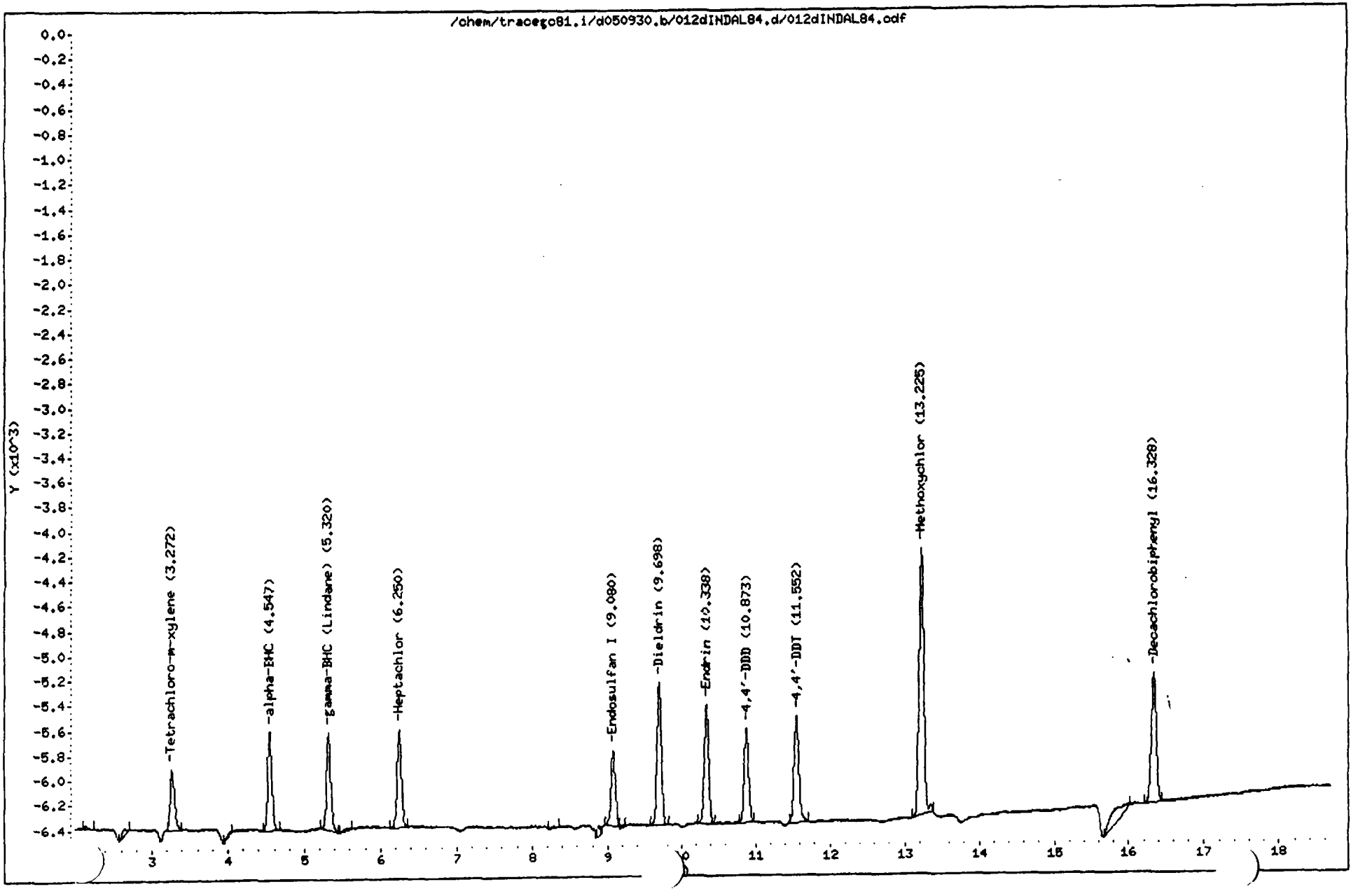
Start: 13.90 Stop: 14.19


Data File: /Chem/tracegc81.i/d050930.b/011dTOXAPH84.d/011dTOXAPH84.cdf
Injection Date: 30-SEP-2005 20:42
Instrument: tracegc81.i
Client Sample ID: TOXAPH84
Y (x10^3)
-6.6 -6.5 -6.4 -6.3 -6.2 -6.1 -6.0 -5.9 -5.8 -5.7 -5.6 -5.5 -5.4 -5.3 -5.2 -5.1 -5.0 -4.9 -4.8 -4.7 -4.6 -4.5 -4.4 -4.3
7.910
8.145
8.313
8.407
8.693
8.777
8.883
9.107
9.245
9.413
9.530
9.692
9.780
9.952
10.027
10.277
10.645
10.753
10.820
Toxaphene
11.203
11.467
11.668
11.812
11.902
12.023
Toxaphene
12.283
12.397
12.465
12.583
Toxaphene
12.943
13.175
13.363
Toxaphene
13.833
Toxaphene
14.207
14.353
14.645
14.952
15.068
15.283
15.448
15.687
15.900
16.007
16.123
8.1 8.4 8.7 9.0 9.3 9.6 9.9 10.2 10.5 10.8 11.1 11.4 11.7 12.0 12.3 12.6 12.9 13.2 13.5 13.8 14.1 14.4 14.7 15.0 15.3 15.6 15.9 16.2
Min
AIA Scientific Software, Inc. 011dTOXAPH84.cdf: 7.903 to 16.282 Min

Data File: /chem/tracego81.i/d050930.b/012dINDAL84.d
Date : 30-SEP-2005 21:04
Client ID: INDAL84
Sample Info: INDAL84
Volume Injected (uL): 1.0
Column phase: olpest2

Instrument: tracego81.i

Operator: 2512
Column diameter: 0.53



CompuChem Environmental Corporation

Lab Smp Id : INDAL84
Sample Type : INITIAL CAL: Level 1
Inj Date : 30-SEP-2005 21:04
Operator : 2512
Method : /chem/tracegc81.i/d050930.b/2ulOLM04_clpest2v6.m
Misc. Info : None

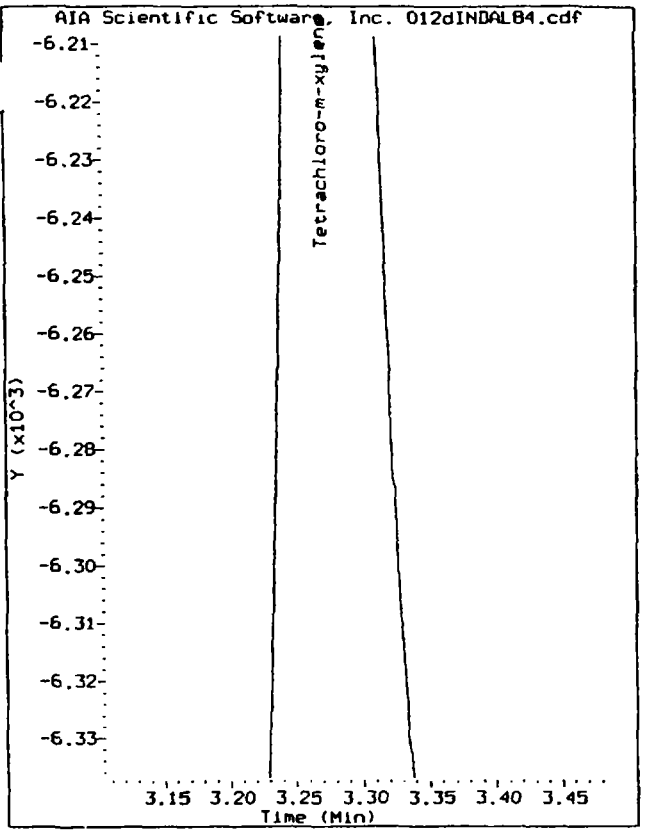
Client Smp Id : INDAL84
Sublist : INDA
Inst ID : TRACEGC81

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
0.12			861					
0.54			1733					
0.57			1334					
0.64			929					
0.67			3270					
0.84			488					
1.10			321					
1.22			145					
1.35			585					
1.67			433					
1.82			211					
2.15			101					
2.66			277					
3.27	3.22	3.32	1925	423700	Tetrachloro-m-xylene	0.005000	384800	M2
4.05			121					
4.55	4.50	4.60	2961	672300	alpha-BHC	0.005000	592200	
5.32	5.27	5.37	3013	637150	gamma-BHC (Lindane)	0.005000	602600	
5.55			124					
6.25	6.20	6.30	3113	662950	Heptachlor	0.005000	622400	
8.28			76					
8.89			222					
9.08	9.01	9.15	2479	546800	Endosulfan I	0.005000	495800	M2
9.21			66					
9.70	9.63	9.77	4799	500075	Dieldrin	0.010000	479800	
10.34	10.27	10.41	4070	419850	Endrin	0.010000	406900	
10.87	10.80	10.94	3199	348450	4,4'-DDD	0.010000	319900	
11.55	11.48	11.62	3881	420675	4,4'-DDT	0.010000	388100	M2
13.22	13.15	13.29	9809	189110	Methoxychlor	0.050000	196160	
15.98			1514					
16.33	16.23	16.43	5021	482325	Decachlorobiphenyl	0.010000	502100	

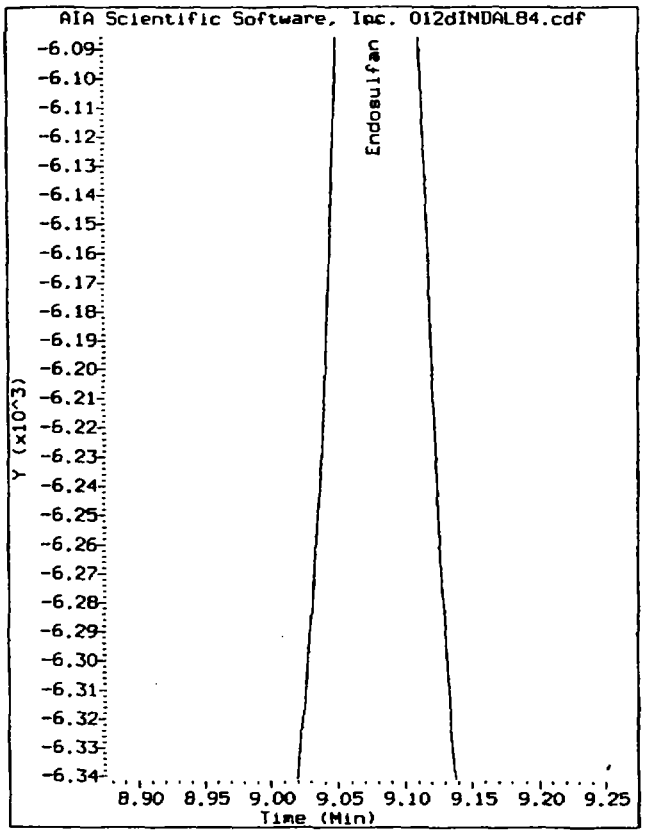
Lab/SIS

TAJ 10/4/05

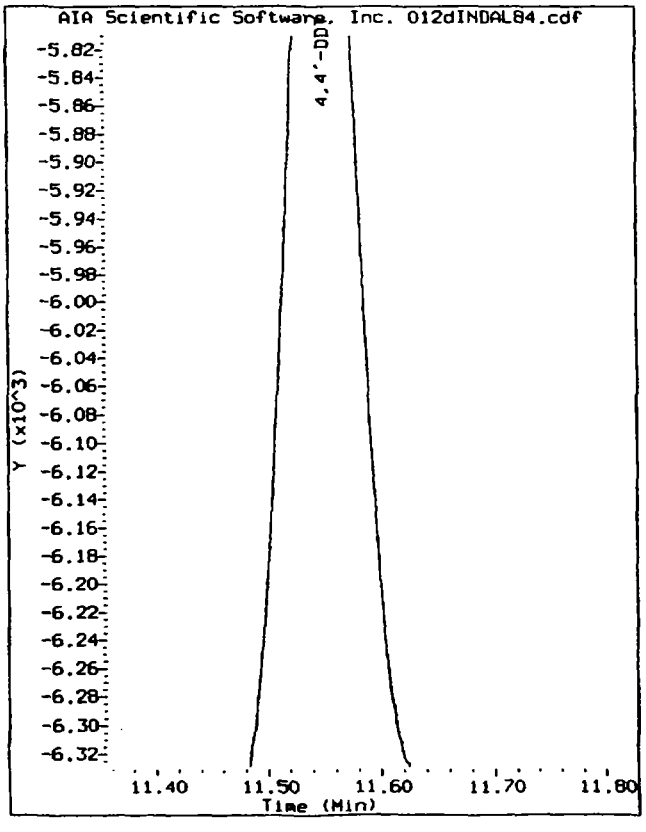
Manually Integrated Peaks



Start: 3.21 Stop: 3.39



Start: 8.98 Stop: 9.16



Start: 11.46 Stop: 11.71

Data File: /chem/tracego81.i/d050930.b/013dINDBL84.d

Date : 30-SEP-2005 21:25

Client ID: INDBL84

Instrument: tracego81.i

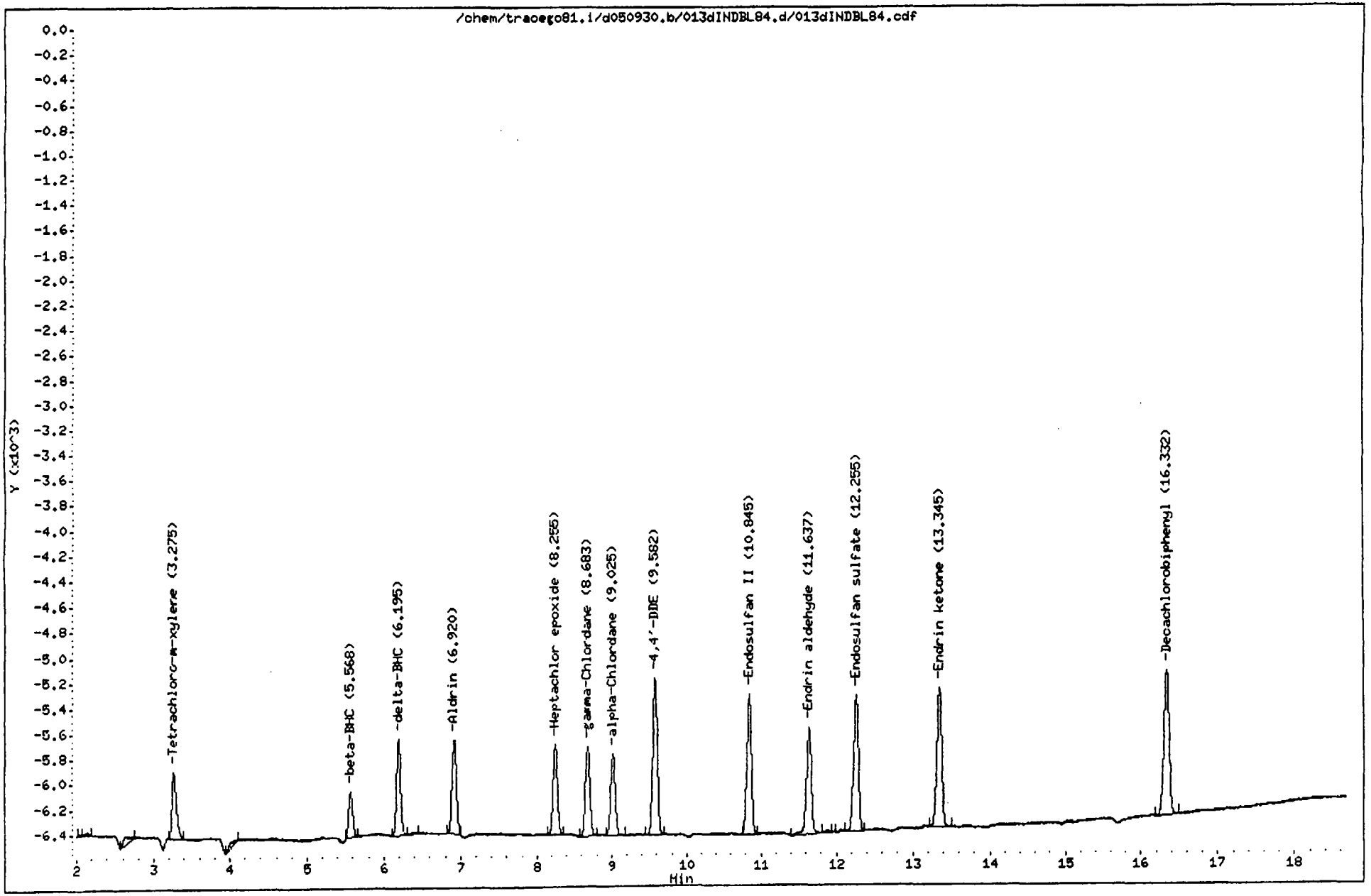
Sample Info: INDBL84

Volume Injected (uL): 1.0

Operator: 2512

Column phase: olpest2

Column diameter: 0.53



Data File: /chem/tracegc81.i/d050930.b/013dINDBL84.d
Report Date 10/03/2005 12:44

CompuChem Environmental Corporation

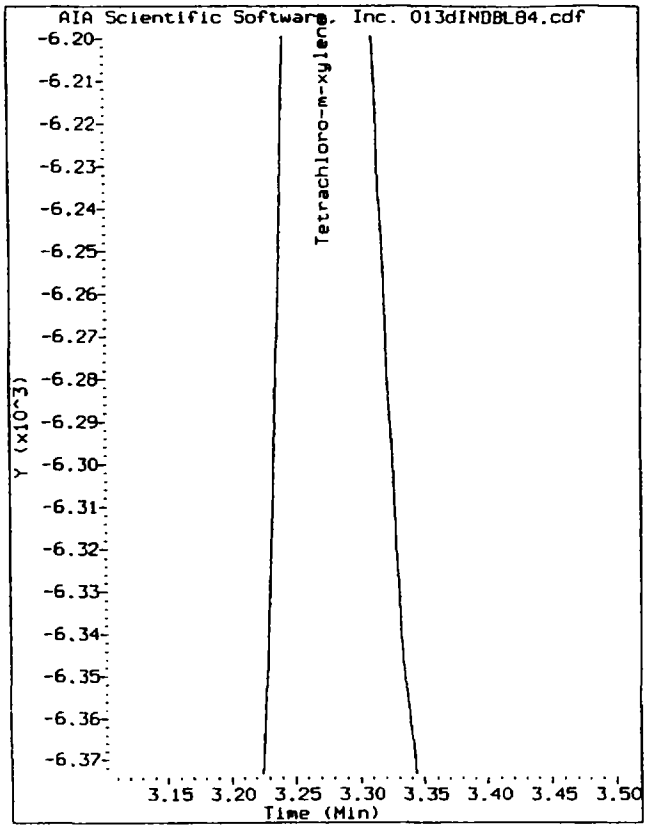
Smp Id	: INDBL84	Client Smp Id	: INDBL84
ple Type	: INITIAL CAL: Level 1	Sublist	: INDB
Inj Date	: 30-SEP-2005 21:25	Inst ID	: TRACEGC81
Operator	: 2512		
Method	: /chem/tracegc81.i/d050930.b/2ulOLM04_clpest2v6.m		
Misc. Info	: None		

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
0.12			1926					
0.57			40116					
0.85			572					
1.09			246					
1.35			160					
1.66			443					
1.82			104					
1.94			117					
2.15			106					
2.65			376					
3.28	3.22	3.32	2230	423700	Tetrachloro-m-xylene	0.005000		M 2
4.09			246					
5.57	5.52	5.62	1332	253500	beta-BHC	0.005000	266400	M 2
6.20	6.15	6.25	2825	543450	delta-BHC	0.005000	565000	
6.37			66					
6.92	6.87	6.97	3023	561500	Aldrin	0.005000	604600	M 2
8.26	8.19	8.33	3009	530250	Heptachlor epoxide	0.005000	601600	
8.68	8.62	8.76	3040	530000	gamma-Chlordane	0.005000	608000	
9.02	8.96	9.10	2804	491800	alpha-Chlordane	0.005000	560800	
9.58	9.51	9.65	5200	460650	4,4'-DDE	0.010000	520000	
10.84	10.77	10.91	4718	402775	Endosulfan II	0.010000	471700	
11.64	11.57	11.71	3929	313450	Endrin aldehyde	0.010000	392800	
97			67					
6			96					
26	12.19	12.33	4739	400500	Endosulfan sulfate	0.010000	473800	
13.34	13.28	13.42	4853	414175	Endrin ketone	0.010000	485200	
16.33	16.23	16.43	5621	482325	Decachlorobiphenyl	0.010000		

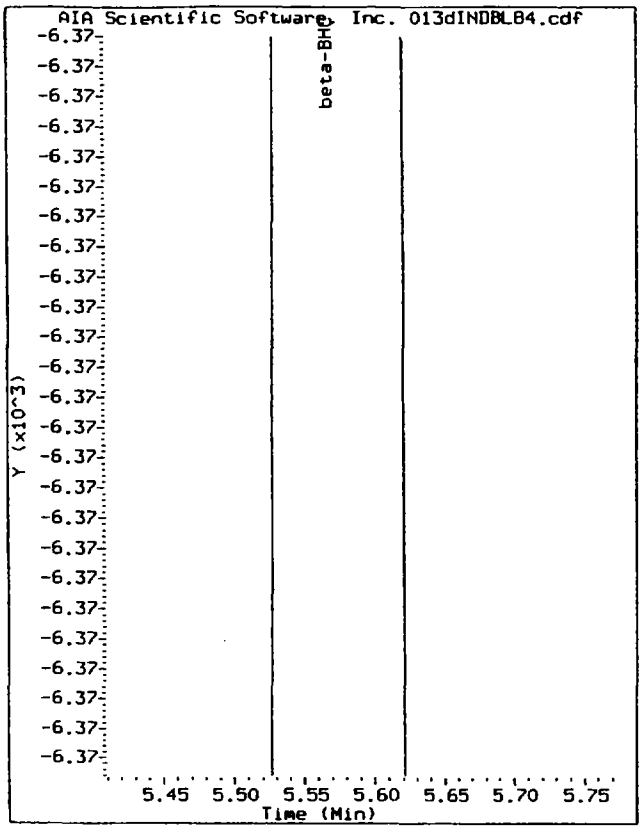
Lcolr

TAJ 10/4/05

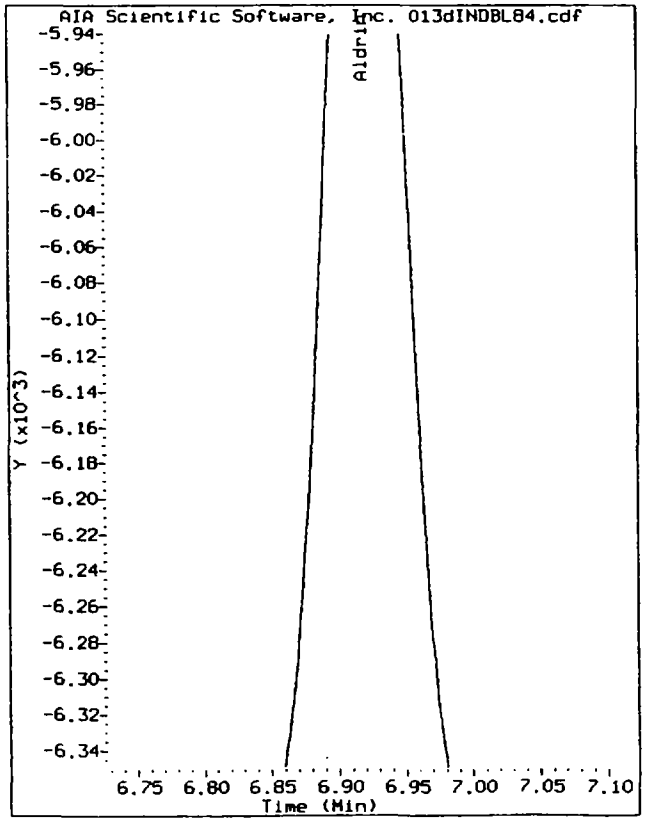
Manually Integrated Peaks



Start: 3.21 Stop: 3.40



Start: 5.51 Stop: 5.67

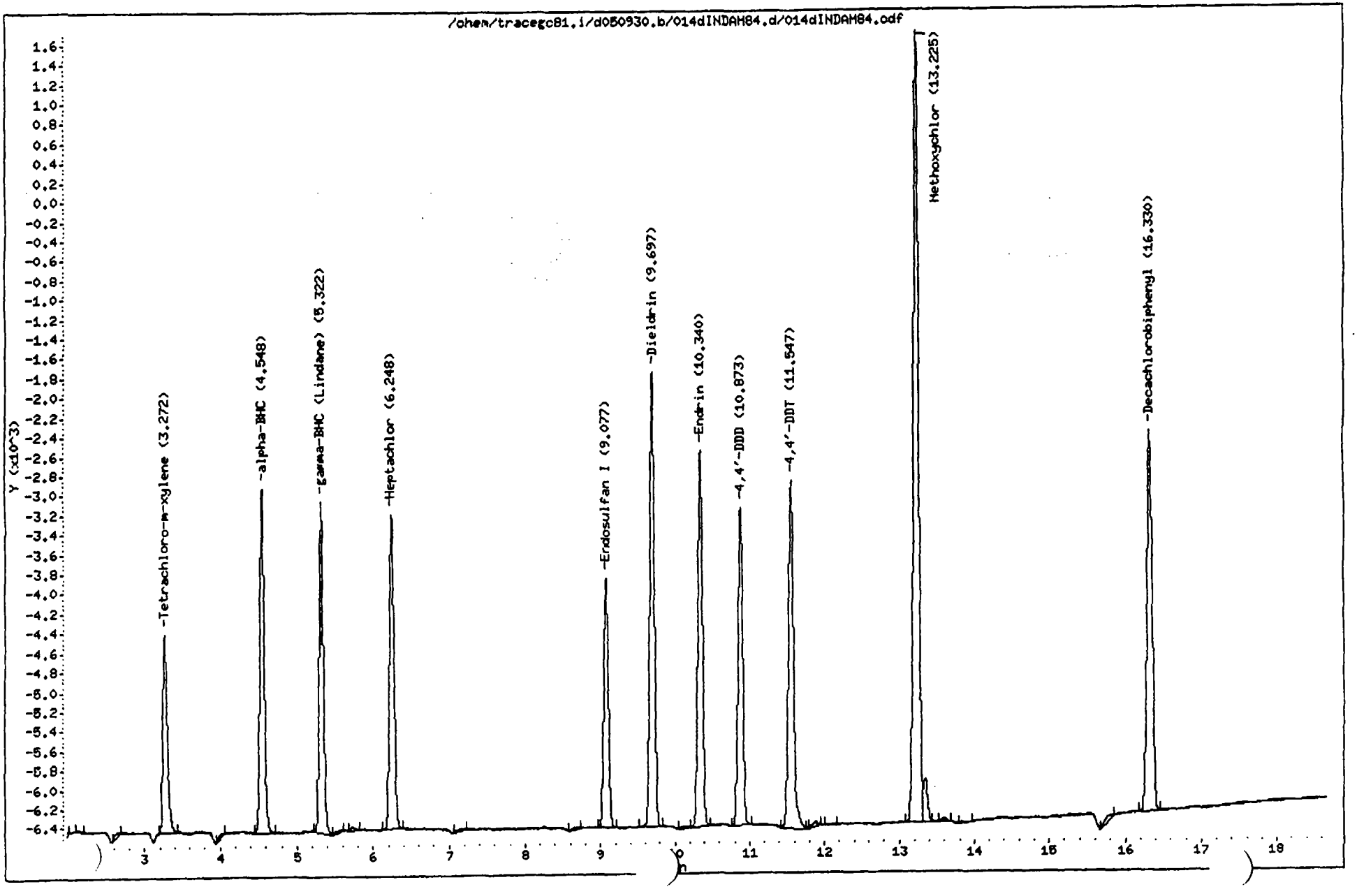


Start: 6.83 Stop: 7.00

Data File: /chem/tracegc81.i/d050930.b/014dINDAH84.d
Date : 30-SEP-2005 21:47
Client ID: INDAH84
Sample Info: INDAH84
Volume Injected (uL): 1.0
Column phase: olpest2

Instrument: tracegc81.i

Operator: 2512
Column diameter: 0.53



CompuChem Environmental Corporation

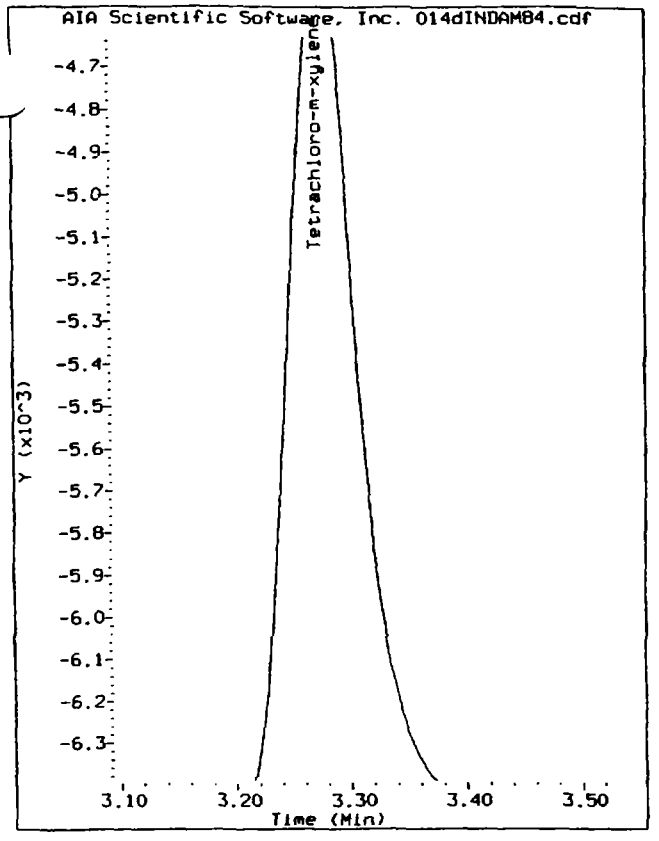
Lab Smp Id : INDAM84 Client Smp Id : INDAM84
Sample Type : INITIAL CAL: Level 2 Sublist : INDA
Inj Date : 30-SEP-2005 21:47 Inst ID : TRACEGC81
Operator : 2512
Method : /chem/tracegc81.i/d050930.b/2ulOLM04_clpest2v6.m
Misc. Info : None

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
0.12			790					
0.53			1713					
0.57			2358					
0.64			1571					
0.66			5449					
0.85			52					
1.14			325					
1.35			1264					
1.66			603					
1.81			558					
1.91			225					
2.15			86					
2.64			181					
3.27	3.22	3.32	8474	423700	Tetrachloro-m-xylene	0.020000	423700	M
4.01			186					
4.55	4.50	4.60	13447	672300	alpha-BHC	0.020000	672300	
5.32	5.27	5.37	12743	637150	gamma-BHC (Lindane)	0.020000	637150	
5.58			104					
5.74			153					
6.25	6.20	6.30	13260	662950	Heptachlor	0.020000	662950	
7.17			114					
8.69			119					
9.08	9.01	9.15	10936	546800	Endosulfan I	0.020000	546800	
9.70	9.63	9.77	20003	500075	Dieldrin	0.040000	500075	
10.16			123					
10.34	10.27	10.41	16795	419850	Endrin	0.040000	419850	
10.87	10.80	10.94	13938	348450	4,4'-DDD	0.040000	348450	
11.55	11.48	11.62	16828	420675	4,4'-DDT	0.040000	420675	
11.89			235					
12.06			76					
13.22	13.15	13.29	37822	189110	Methoxychlor	0.200000	189110	
13.34			1751					
13.60			170					
13.88			124					
15.82			366					
16.33	16.23	16.43	19294	482325	Decachlorobiphenyl	0.040000	482325	

Labels

TAJ 10/4/05

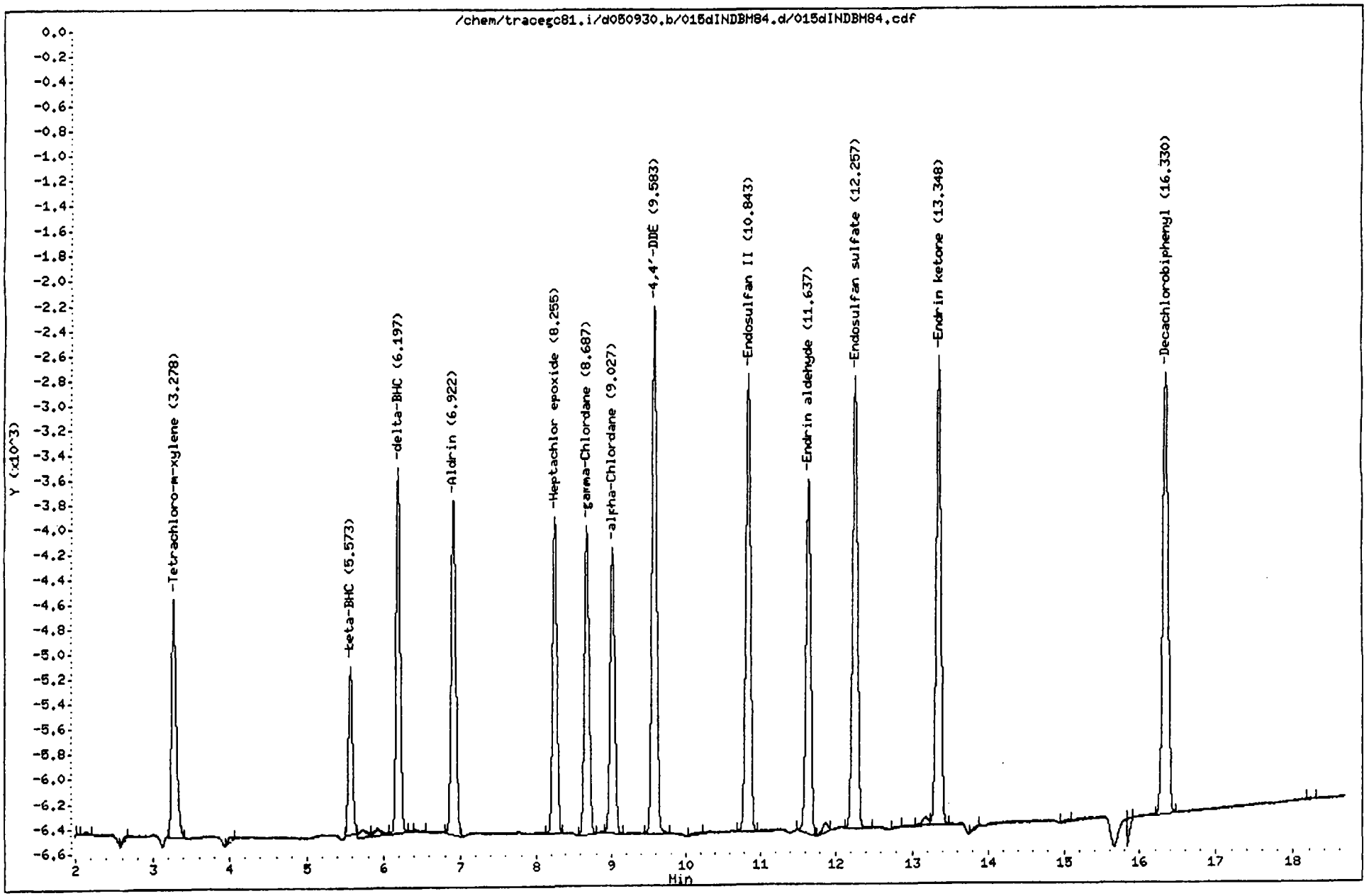
Manually Integrated Peaks



Start: 3.19 Stop: 3.44

Data File: /chem/tracegc81.i/d050930.b/015dINDBM84.d
Date : 30-SEP-2005 22:09
Client ID: INDBM84
Sample Info: INDBM84
Volume Injected (uL): 1.0
Column phase: clpest2

Instrument: tracegc81.i
Operator: 2512
Column diameter: 0.53



CompuChem Environmental Corporation

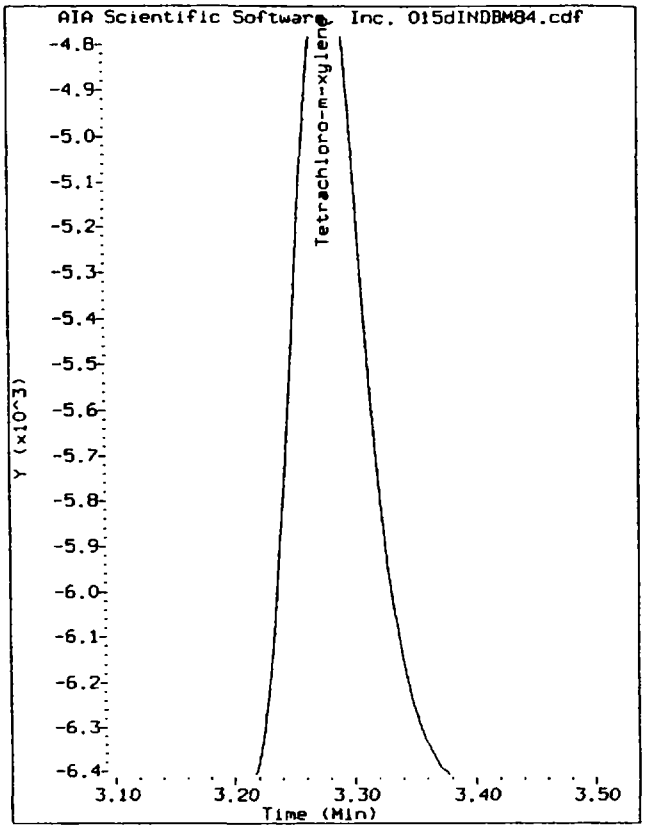
I Smp Id	: INDBM84	Client Smp Id	: INDBM84
S ple Type	: INITIAL CAL: Level 2	Sublist	: INDB
In Date	: 30-SEP-2005 22:09	Inst ID	: TRACEGC81
Operator	: 2512		
Method	: /chem/tracegc81.i/d050930.b/2ulOLM04_clpest2v6.m		
Misc. Info	: None		

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
0.13			760					
0.53			1892					
0.57			1790					
0.67			6687					
1.10			124					
1.35			214					
1.67			354					
1.80			57					
1.94			104					
2.15			107					
2.65			149					
3.28	3.22	3.32	8213	423700	Tetrachloro-m-xylene	0.020000		M
4.02			188					
5.57	5.52	5.62	5071	253500	beta-BHC	0.020000	253500	M
5.73			467					
5.93			440					
6.20	6.15	6.25	10869	543450	delta-BHC	0.020000	543450	
6.42			74					
6.92	6.87	6.97	11231	561500	Aldrin	0.020000	561500	
8.26	8.19	8.33	10605	530250	Heptachlor epoxide	0.020000	530250	
8.69	8.62	8.76	10600	530000	gamma-Chlordane	0.020000	530000	
9.03	8.96	9.10	9836	491800	alpha-Chlordane	0.020000	491800	
[illegible]8	9.51	9.65	18426	460650	4,4'-DDE	0.040000	460650	
[illegible]			151					
[illegible]4	10.77	10.91	16111	402775	Endosulfan II	0.040000	402775	
11.64	11.57	11.71	12538	313450	Endrin aldehyde	0.040000	313450	
11.87			409					
12.26	12.19	12.33	16020	400500	Endosulfan sulfate	0.040000	400500	
12.84			65					
13.18			379					
13.35	13.28	13.42	16567	414175	Endrin ketone	0.040000	414175	
13.87			69					
15.04			117					
15.90			442					
16.33	16.23	16.43	17551	482325	Decachlorobiphenyl	0.040000		
18.22			59					

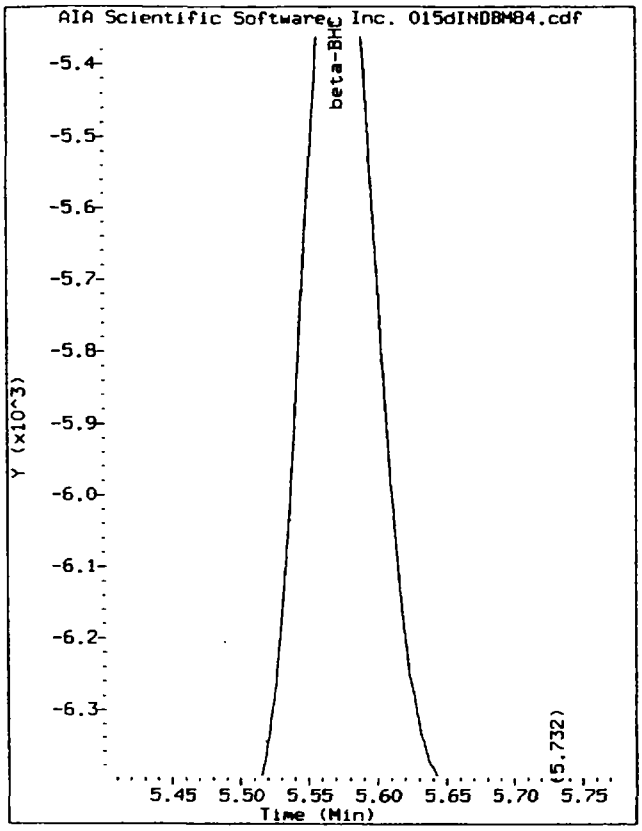
L 10/3/05

TAJ 10/4/05

Manually Integrated Peaks



Start: 3.19 Stop: 3.42

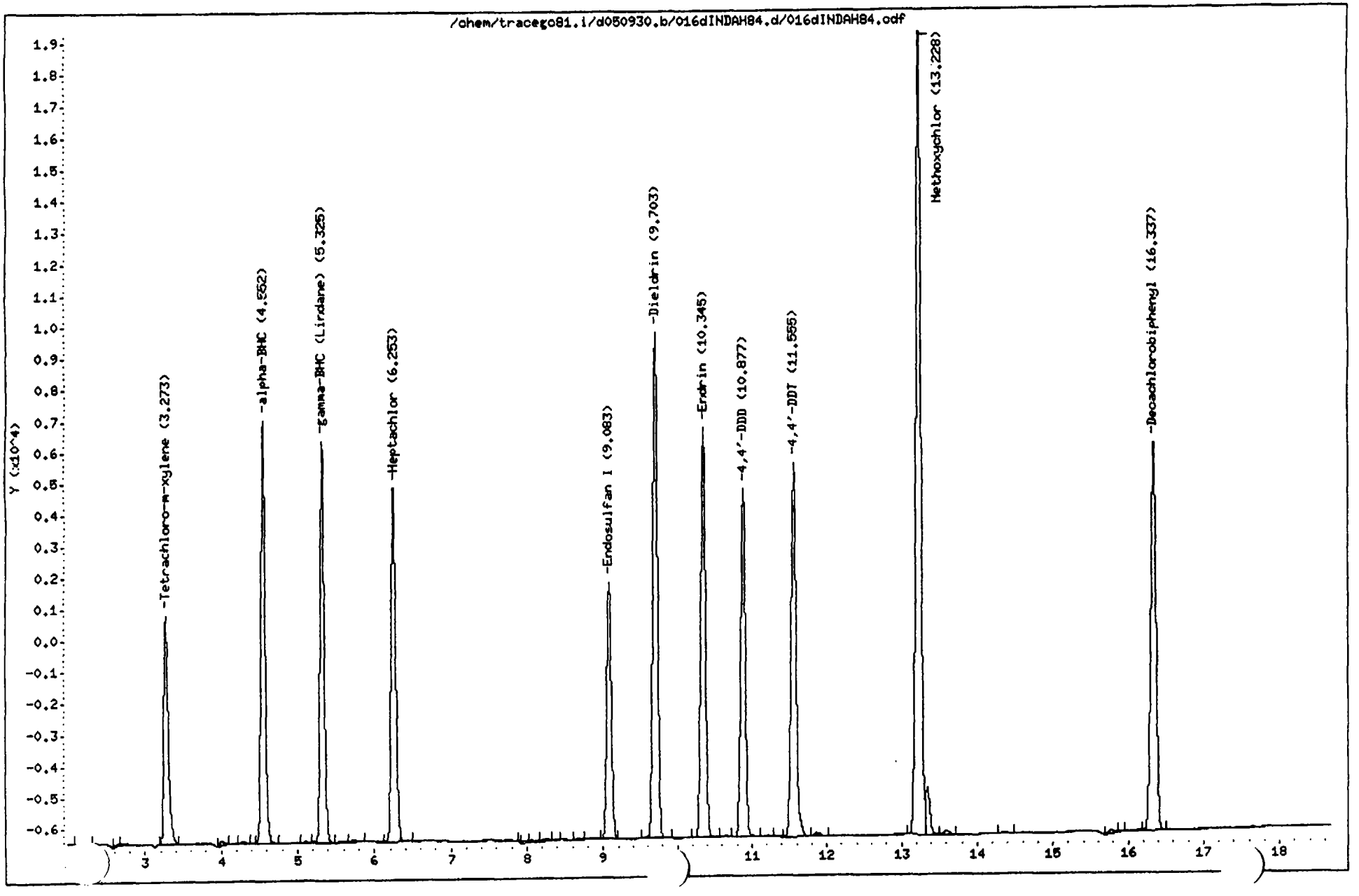


Start: 5.50 Stop: 5.67

Data File: /chem/tracego81.i/d050930.b/016dINDAH84.d
Date : 30-SEP-2005 22:31
Client ID: INDAH84
Sample Info: INDAH84
Volume Injected (uL): 1.0
Column phase: olpest2

Instrument: tracego81.i

Operator: 2512
Column diameter: 0.53



CompuChem Environmental Corporation

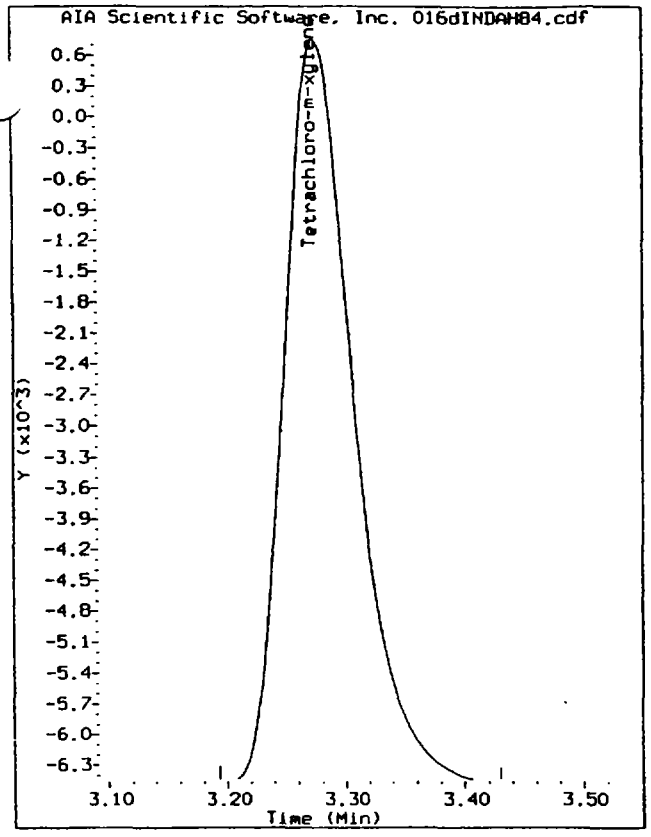
Lab Smp Id : INDAH84 Client Smp Id : INDAH84
Sample Type : INITIAL CAL: Level 3 Sublist : INDA
Inj Date : 30-SEP-2005 22:31 Inst ID : TRACEGC81
Operator : 2512
Method : /chem/tracegc81.i/d050930.b/2ulOLM04_clpest2v6.m
Misc. Info : None

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
0.12			1657					
0.57			9754					
0.64			1508					
0.67			4340					
0.85			424					
1.09			126					
1.23			92					
1.35			405					
1.68			320					
1.82			145					
2.15			140					
2.65			145					
3.27	3.22	3.32	29758	423700	Tetrachloro-m-xylene	0.080000	371975	M
4.01			544					
4.29			130					
4.55	4.50	4.60	50022	672300	alpha-BHC	0.080000	625262	
5.10			159					
5.32	5.27	5.37	47174	637150	gamma-BHC (Lindane)	0.080000	589675	
5.55			212					
5.74			404					
6.25	6.20	6.30	46016	662950	Heptachlor	0.080000	575200	
7.90			72					
7.97			326					
8.06			553					
8.27			419					
8.41			101					
8.69			176					
9.08	9.01	9.15	35370	546800	Endosulfan I	0.080000	442125	
9.70	9.63	9.77	68791	500075	Dieldrin	0.160000	429938	
10.34	10.27	10.41	57006	419850	Endrin	0.160000	356288	
10.65			209					
10.88	10.80	10.94	47982	348450	4,4'-DDD	0.160000	299888	
11.21			136					
11.56	11.48	11.62	55144	420675	4,4'-DDT	0.160000	344644	
11.86			558					
13.23	13.15	13.29	119735	189110	Methoxychlor	0.800000	149669	
13.35			6000					
13.60			594					
14.35			300					
15.79			626					
15.92			84					
16.34	16.23	16.43	61487	482325	Decachlorobiphenyl	0.160000	384288	

L.O.W.

TAJ 10/4/05

Manually Integrated Peaks

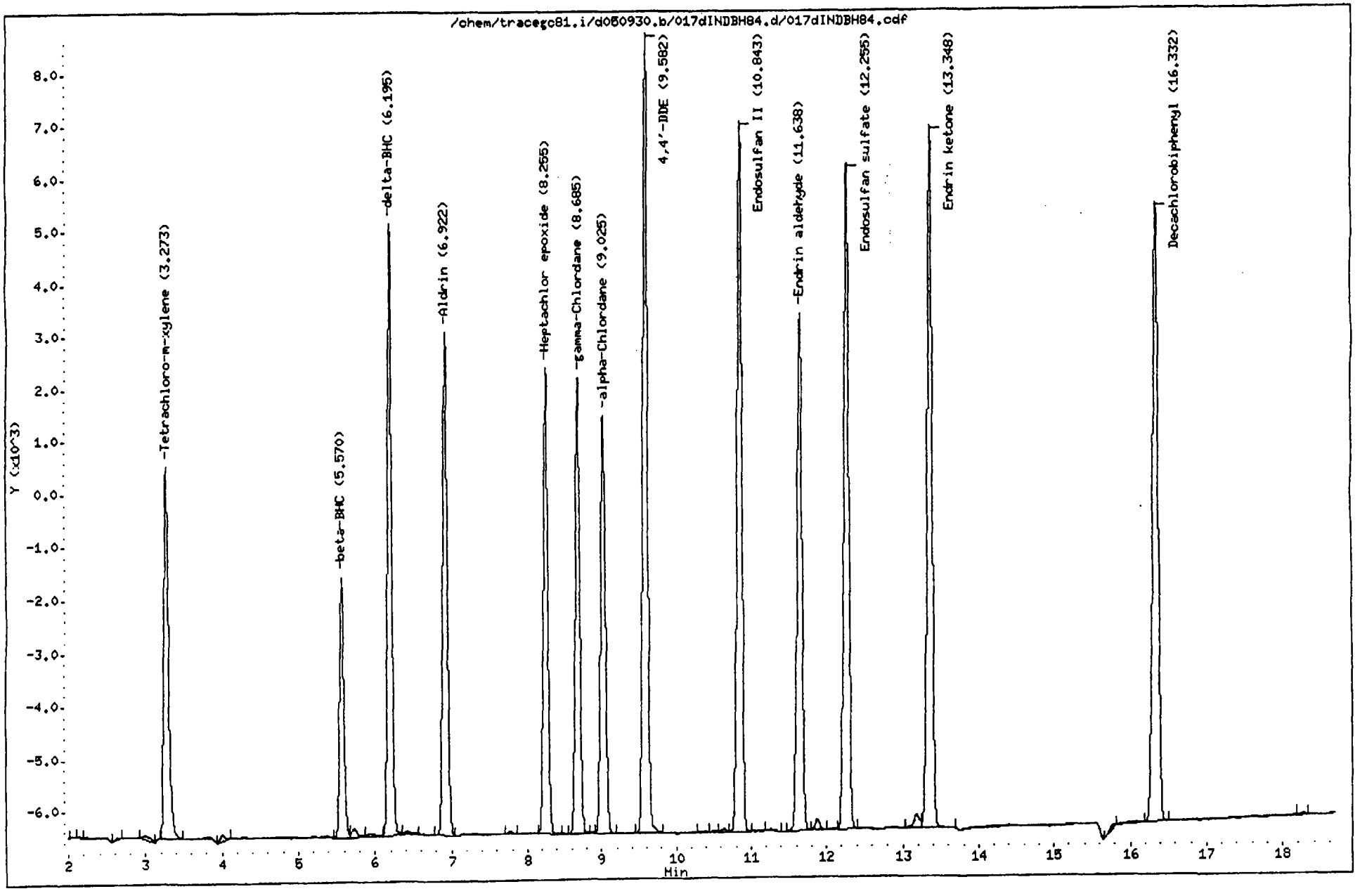


Start: 3.19 Stop: 3.43

Data File: /chem/tracego81.i/d050930.b/017dINDBH84.d
Date : 30-SEP-2005 22:52
Client ID: INDBH84
Sample Info: INDBH84
Volume Injected (uL): 1.0
Column phase: clpest2

Instrument: tracego81.i

Operator: 2612
Column diameter: 0.53



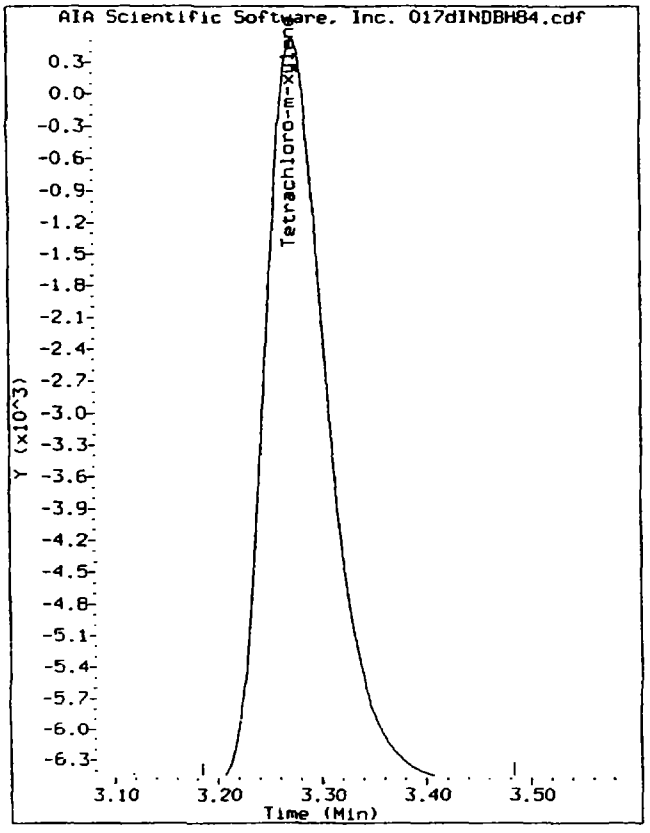
CompuChem Environmental Corporation

I Smp Id	: INDBH84	Client Smp Id	: INDBH84
S ple Type	: INITIAL CAL: Level 3	Sublist	: INDB
Inj Date	: 30-SEP-2005 22:52	Inst ID	: TRACEGC81
Operator	: 2512		
Method	: /chem/tracegc81.i/d050930.b/2ulOLM04_clpest2v6.m		
Misc. Info	: None		

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
0.13			1183					
0.57			21919					
1.09			110					
1.35			129					
1.68			354					
1.80			149					
1.92			147					
2.14			80					
2.64			189					
3.00			646					
3.27	3.22	3.32	29854	423700	Tetrachloro-m-xylene	0.080000		M2
4.01			540					
5.57	5.52	5.62	19101	253500	beta-BHC	0.080000	238762	
5.73			869					
5.94			455					
6.20	6.15	6.25	43014	543450	delta-BHC	0.080000	537662	
6.42			403					
6.92	6.87	6.97	39699	561500	Aldrin	0.080000	496238	
7.76			240					
8.26	8.19	8.33	37171	530250	Heptachlor epoxide	0.080000	464638	
8.68	8.62	8.76	36935	530000	gamma-Chlordane	0.080000	461688	
9.02	8.96	9.10	34312	491800	alpha-Chlordane	0.080000	428900	
8	9.51	9.65	65492	460650	4,4'-DDE	0.160000	409325	
3			142					
10.64			244					
10.84	10.77	10.91	58150	402775	Endosulfan II	0.160000	363438	
11.27			208					
11.64	11.57	11.71	43335	313450	Endrin aldehyde	0.160000	270844	
11.87			931					
12.06			77					
12.26	12.19	12.33	56108	400500	Endosulfan sulfate	0.160000	350675	
13.18			1481					
13.35	13.28	13.42	59185	414175	Endrin ketone	0.160000	369900	
15.80			505					
16.33	16.23	16.43	58743	482325	Decachlorobiphenyl	0.160000		
18.27			116					

TAJ 10/4/05

Manually Integrated Peaks

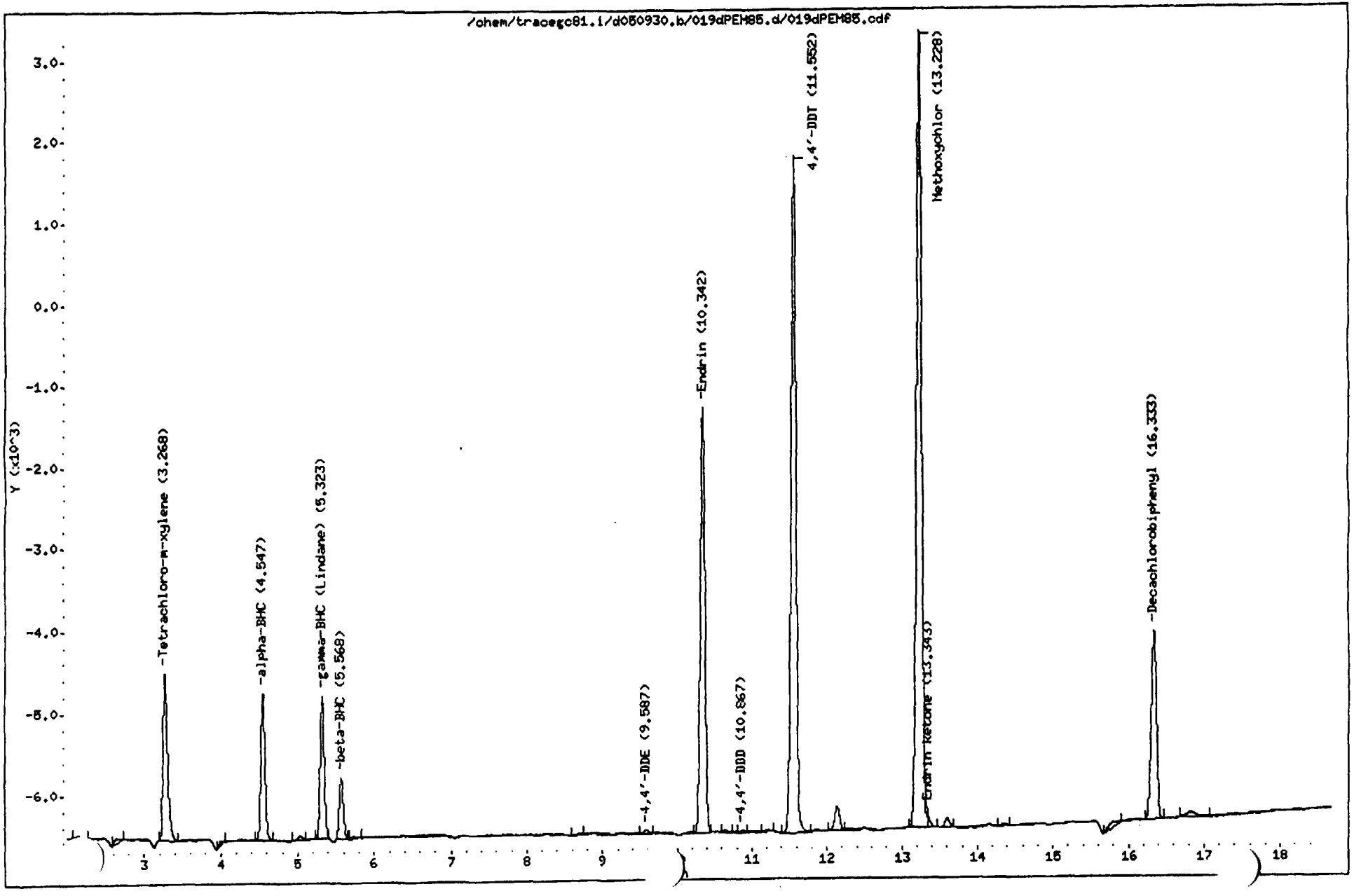


Start: 3.19 Stop: 3.48

Data File: /chem/tracegc81.i/d050930.b/019dPEM85.d
Date : 30-SEP-2005 23:36
Client ID: PEM85
Sample Info: PEM85
Volume Injected (uL): 1.0
Column phase: olpest2

Instrument: tracegc81.i

Operator: 2512
Column diameter: 0.53



CompuChem Environmental Corporation

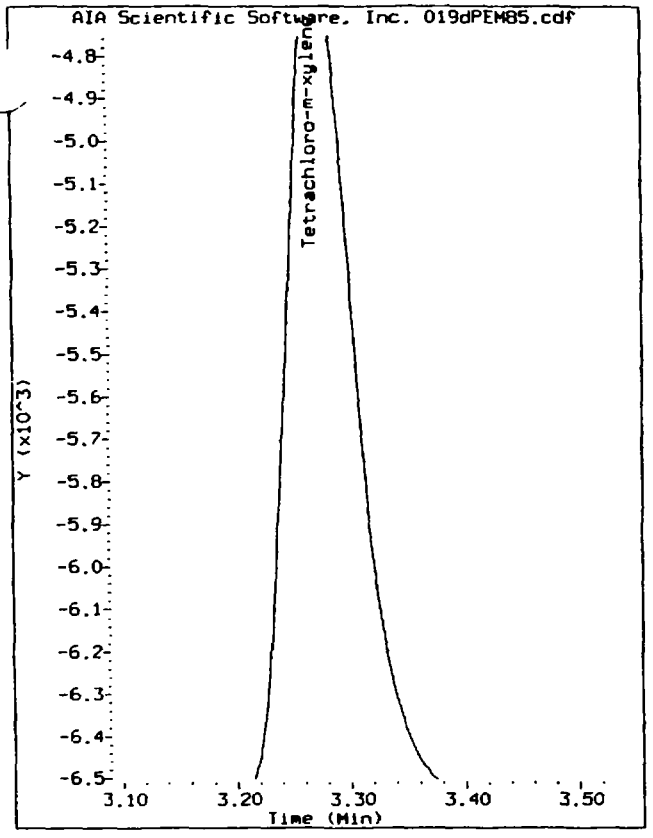
Lab Smp Id : PEM85 Client Smp Id : PEM85
Sample Type : PEM Sublist : PEM
Inj Date : 30-SEP-2005 23:36 Inst ID : TRACEGC81
Operator : 2512 Spike Sublist : PEM
Method : /chem/tracegc81.i/d050930.b/2ul0LM04_clpest2v6.m
Misc. Info : None

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CALC AMT ON-COLUMN (Ng)	%D	%D LIMIT	FLAGS
0.14			776							
0.53			1824							
0.57			1349							
0.64			1730							
0.67			5575							
1.10			223							
1.34			155							
1.66			380							
1.81			98							
1.92			77							
2.13			141							
2.64			262							
3.27	3.22	3.32	8390	423700	Tetrachloro-m-xylene	0.020000	0.019802	-1.0	25.0	M
4.03			164							
4.55	4.50	4.60	6751	672300	alpha-BHC	0.010000	0.010041	0.4	25.0	
5.03			232							
5.32	5.27	5.37	6396	637150	gamma-BHC (Lindane)	0.010000	0.010038	0.4	25.0	M
5.57	5.52	5.62	2731	253500	beta-BHC	0.010000	0.010772	7.7	25.0	M
5.73			162							
8.69			99							
9.59	9.51	9.65	212	460650	4,4'-DDE	0.000000	0.000459			J
10.34	10.27	10.41	22621	419850	Endrin	0.050000	0.053878	7.8	25.0	
10.65			131							
10.87	10.80	10.94	115	348450	4,4'-DDD	0.000000	0.000331			J
11.21			127							
11.55	11.48	11.62	37496	420675	4,4'-DDT	0.100000	0.089132	-10.9	25.0	
12.14			1349							
13.23	13.15	13.29	45924	189110	Methoxychlor	0.250000	0.242842	-2.9	25.0	M
13.34	13.28	13.42	408	414175	Endrin ketone	0.000000	0.000984			JM
13.60			563							
14.34			123							
15.88			593							
16.33	16.23	16.43	11393	482325	Decachlorobiphenyl	0.020000	0.023621	18.1	25.0	
16.83			604							

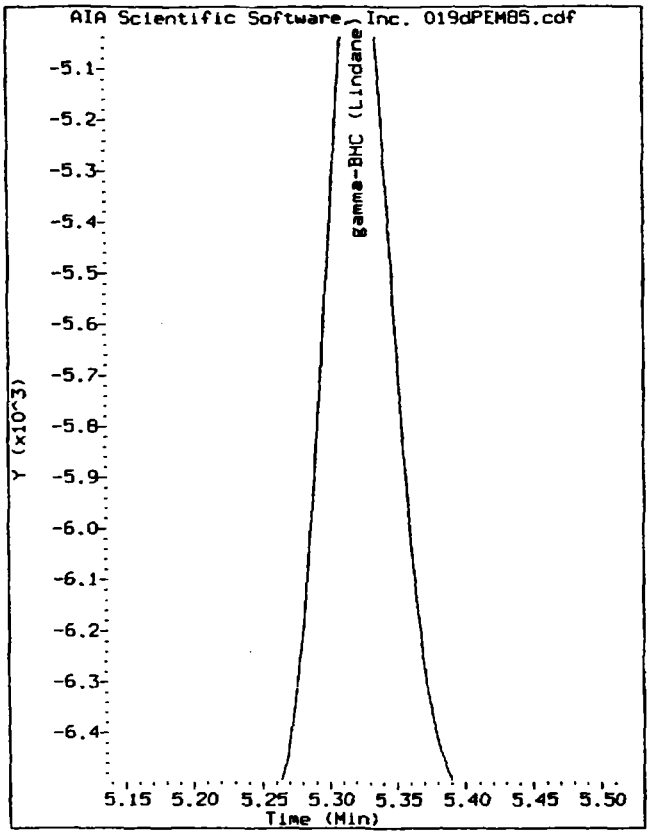
cal'd

TAJ 10/4/05

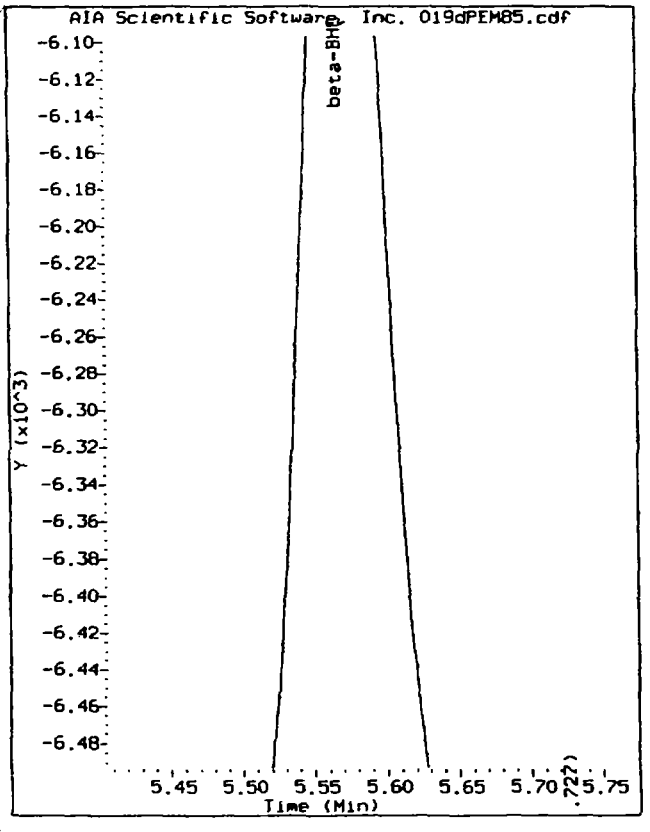
Manually Integrated Peaks



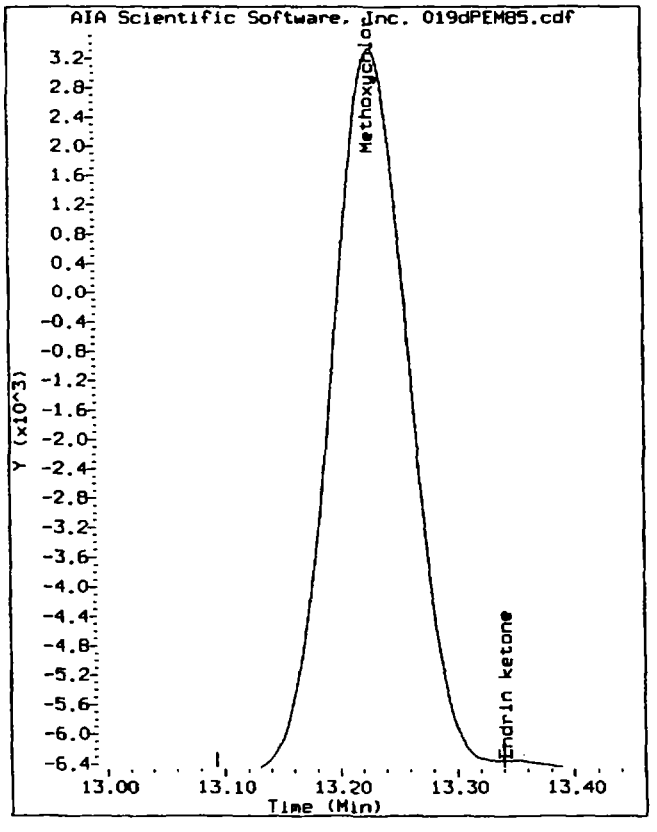
Start: 3.19 Stop: 3.44



Start: 5.24 Stop: 5.41

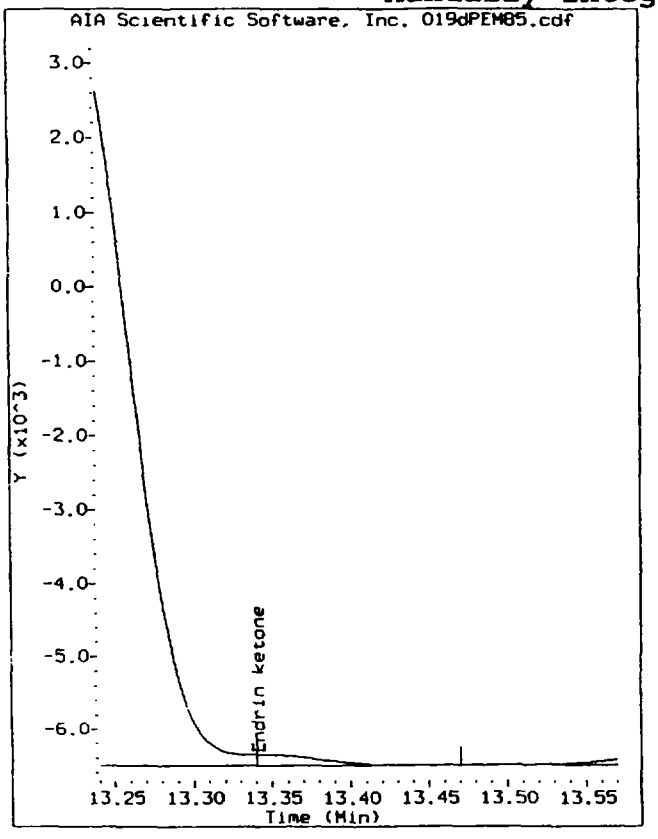


Start: 5.51 Stop: 5.66



Start: 13.09 Stop: 13.34

Manually Integrated Peaks

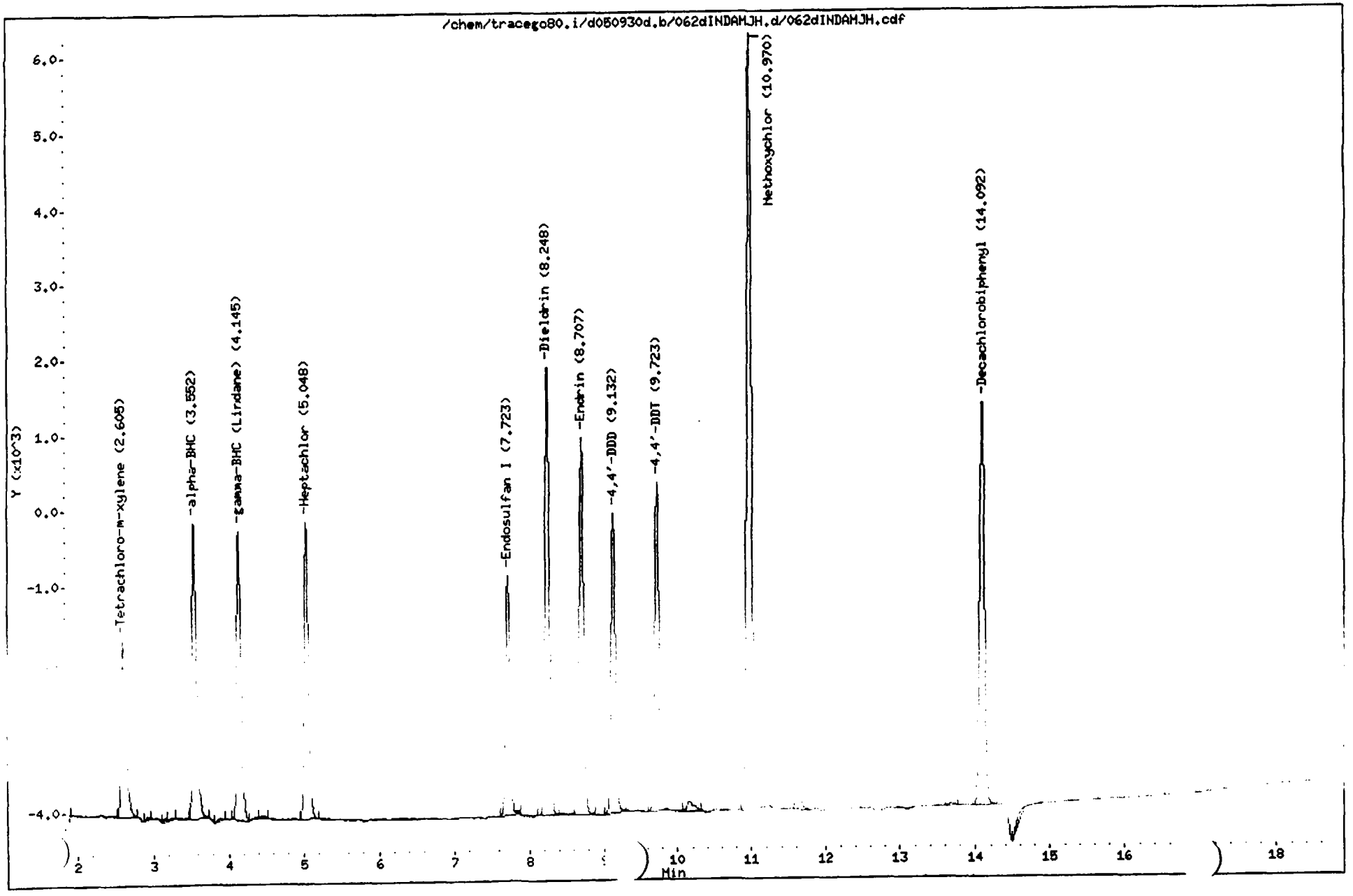


Start: 13.34 Stop: 13.47

Data File: /chem/tracegc80.i/d050930d.b/062dINDAMJH.d
Date : 01-OCT-2005 15:09
Client ID: INDAMJH
Sample Info: INDAMJH
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc80.i

Operator: 2512
Column diameter: 0.53



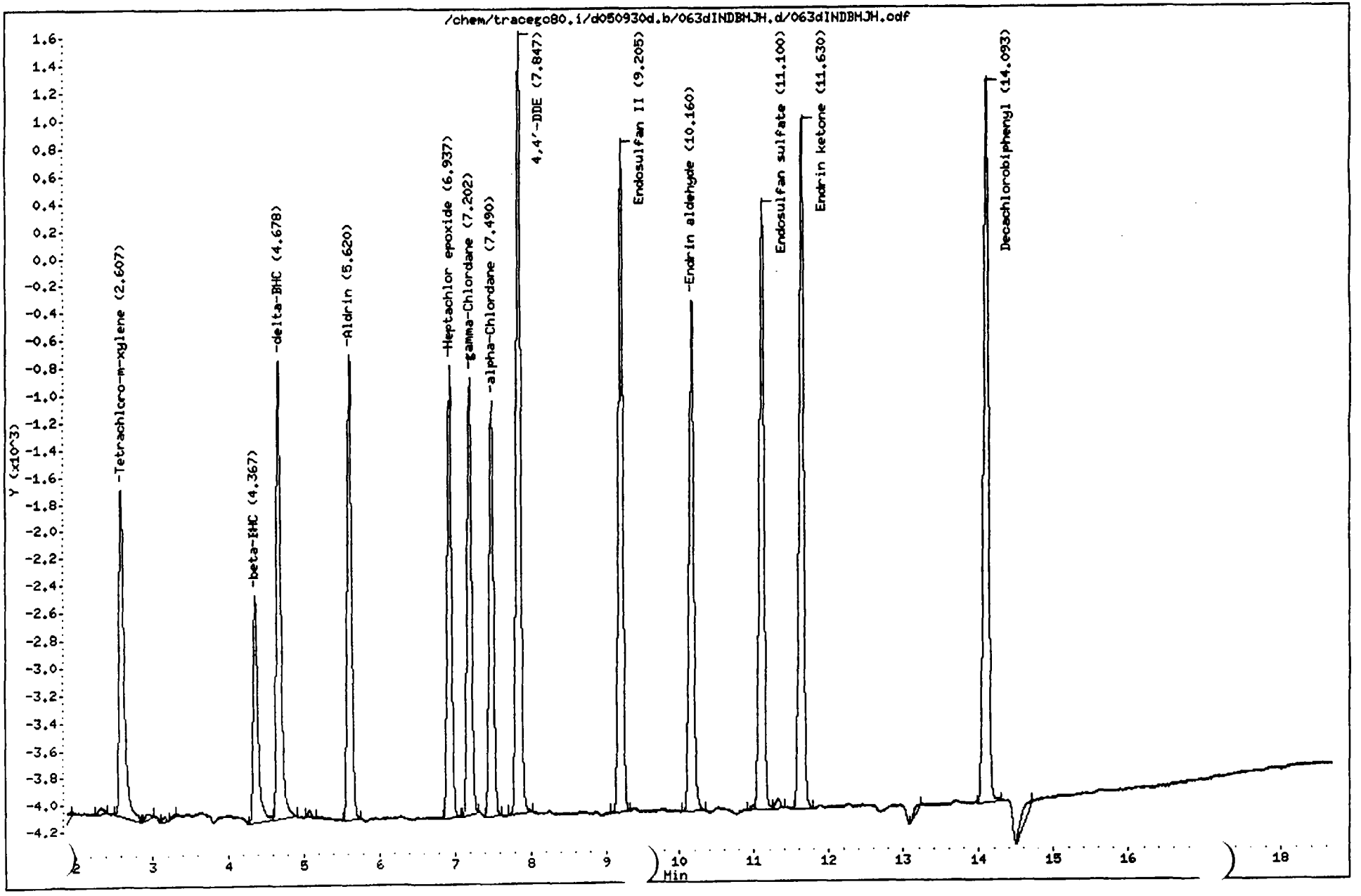
CompuChem Environmental Corporation

Lab Smp Id : INDAMJH Client Smp Id : INDAMJH
Sample Type : CONT CAL: Level 2 Sublist : INDA
Inj Date : 01-OCT-2005 15:09 Inst ID : TRACEGC80
Operator : 2512
Method : /chem/tracegc80.i/d050930d.b/2ulOLM04_clpestv6.m
Misc. Info : None

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CALC AMT ON-COLUMN (Ng)	%D	%D LIMIT	FLAGS
0.12			871							
0.55			1822							
0.59			1514							
0.69			7390							
1.19			119							
1.86			170							
2.60	2.55	2.65	10529	513950	Tetrachloro-m-xylene	0.020000	0.020487	2.4	25.0	
2.96			113							
3.17			103							
3.25			75							
3.55	3.50	3.60	15618	816650	alpha-BHC	0.020000	0.019124	-4.4	25.0	
3.94			133							
4.14	4.09	4.19	14694	759250	gamma-BHC (Lindane)	0.020000	0.019354	-3.2	25.0	
4.47			151							
5.05	5.00	5.10	15830	784550	Heptachlor	0.020000	0.020177	0.9	25.0	
7.72	7.65	7.79	12968	629050	Endosulfan I	0.020000	0.020615	3.1	25.0	
8.25	8.18	8.32	23741	586725	Dieldrin	0.040000	0.040463	1.2	25.0	
8.71	8.64	8.78	20154	485700	Endrin	0.040000	0.041496	3.7	25.0	
9.13	9.07	9.21	16491	411450	4,4'-DDD	0.040000	0.040080	0.2	25.0	
9.72	9.66	9.80	18071	457225	4,4'-DDT	0.040000	0.039522	-1.2	25.0	
10.15			845							
10.97	10.90	11.04	44624	222300	Methoxychlor	0.200000	0.200739	0.4	25.0	
11.62			2378							
13.69			134							
14.09	13.99	14.19	24409	615700	Decachlorobiphenyl	0.040000	0.039644	-0.9	25.0	
14.65			770							

Data File: /chem/tracegc80.i/d050930d.b/063dINDBMJH.d
Date : 01-OCT-2005 15:31
Client ID: INDBMJH
Sample Info: INDBMJH
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracego80.i
Operator: 2512
Column diameter: 0.53

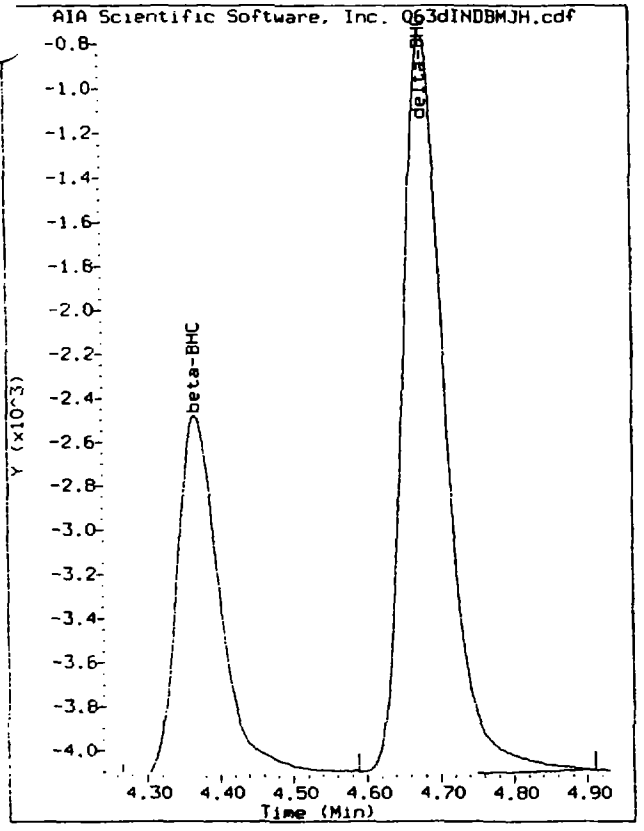


CompuChem Environmental Corporation

Lab Smp Id : INDBMJH Client Smp Id : INDBMJH
Sample Type : CONT CAL: Level 2 Sublist : INDB
Inj Date : 01-OCT-2005 15:31 Inst ID : TRACEGC80
Operator : 2512
Method : /chem/tracegc80.i/d050930d.b/2ulOLM04_clpestv6.m
Misc. Info : None

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CALC AMT ON-COLUMN (Ng)	%D	%D LIMIT	FLAGS
0.14			994							
0.56			1298							
0.59			1129							
0.70			6761							
1.03			102							
1.26			359							
1.47			239							
1.74			297							
1.94			237							
2.34			241							
2.61	2.55	2.65	10986	513950	Tetrachloro-m-xylene	0.020000	0.021375	6.9	25.0	
2.96			211							
3.17			128							
3.29			100							
4.37	4.32	4.42	7075	303500	beta-BHC	0.020000	0.023312	16.6	25.0	
4.68	4.63	4.73	13507	661850	delta-BHC	0.020000	0.020408	2.0	25.0	
5.08			152							
5.62	5.57	5.67	13377	636950	Aldrin	0.020000	0.021001	5.0	25.0	
6.94	6.87	7.01	13027	607700	Heptachlor epoxide	0.020000	0.021436	7.2	25.0	
7.20	7.13	7.27	12810	608400	gamma-Chlordane	0.020000	0.021055	5.3	25.0	
7.49	7.42	7.56	12082	554050	alpha-Chlordane	0.020000	0.021807	9.0	25.0	
7.85	7.78	7.92	23135	526150	4,4'-DDE	0.040000	0.043971	9.9	25.0	
9.20	9.14	9.28	20079	467975	Endosulfan II	0.040000	0.042906	7.3	25.0	
10.16	10.09	10.23	15811	367350	Endrin aldehyde	0.040000	0.043040	7.6	25.0	
10.96			116							
11.10	11.03	11.17	18950	482850	Endosulfan sulfate	0.040000	0.039245	-1.9	25.0	
11.32			314							
11.63	11.56	11.70	21053	495800	Endrin ketone	0.040000	0.042462	6.2	25.0	
13.20			269							
14.09	13.99	14.19	24354	615700	Decachlorobiphenyl	0.040000	0.039556	-1.1	25.0	
14.68			880							

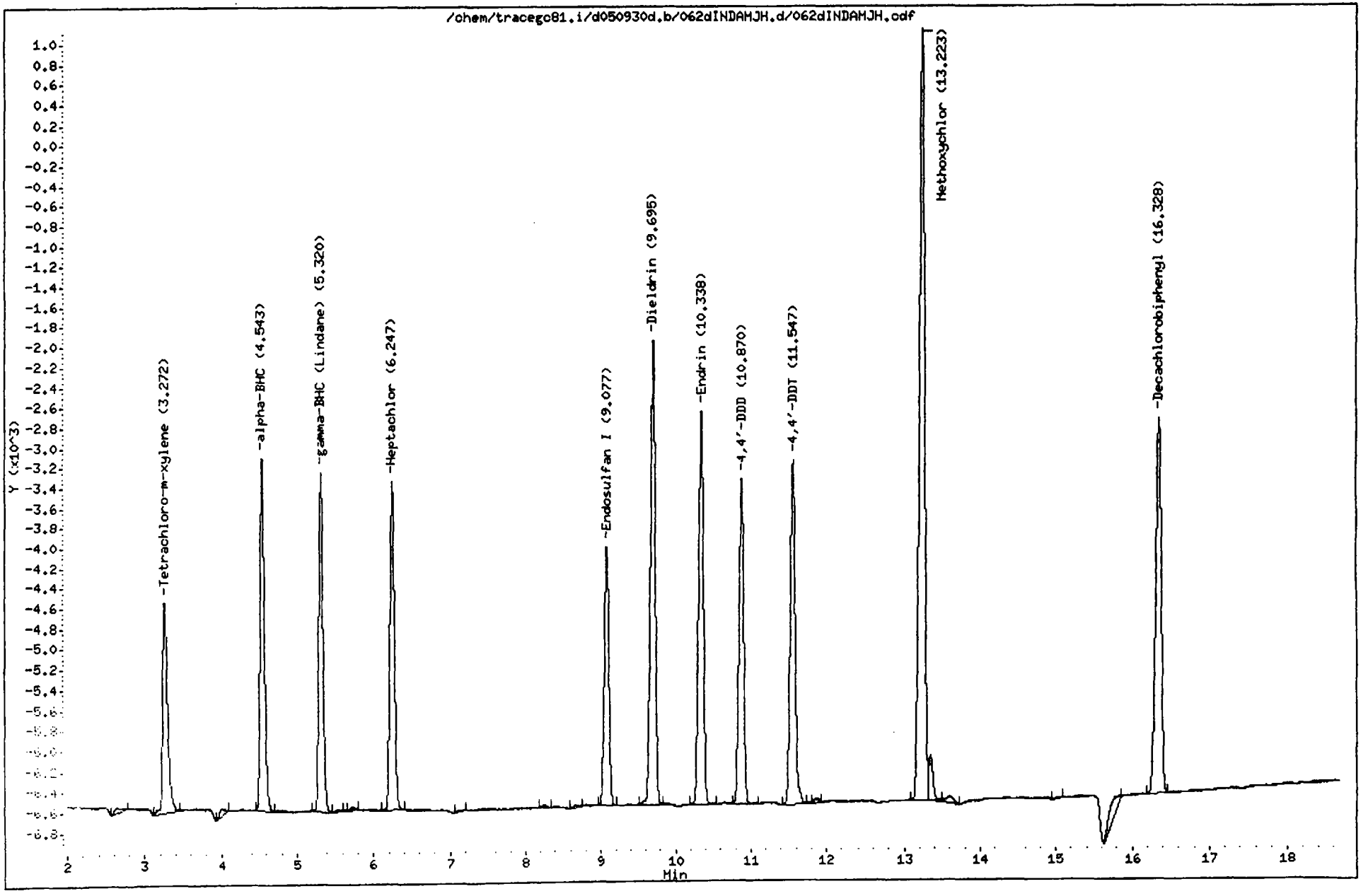
Non-Fully Resolved Peaks



Resolution: 97.6%

Data File: /chem/tracegc81.i/d050930d.b/062dINDAMJH.d
Date : 01-OCT-2005 15:09
Client ID: INDAMJH
Sample Info: INDAMJH
Volume Injected (uL): 1.0
Column phase: clpest2

Instrument: tracegc81.i
Operator: 2512
Column diameter: 0.53



CompuChem Environmental Corporation

Lab Smp Id : INDAMJH Client Smp Id : INDAMJH
Sample Type : CONT CAL: Level 2 Sublist : INDA
Inj Date : 01-OCT-2005 15:09 Inst ID : TRACEGC81
Operator : 2512
Method : /chem/tracegc81.i/d050930d.b/2ulOLM04_clpest2v6.m
Misc. Info : None

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CALC AMT ON-COLUMN (Ng)	%D	%D LIMIT	FLAGS
0.13			1692							
0.53			4391							
0.57			3936							
0.66			8910							
0.94			482							
1.06			217							
1.31			139							
1.48			338							
1.65			377							
1.78			163							
2.64			354							
3.27	3.22	3.32	9064	423700	Tetrachloro-m-xylene	0.020000	0.021392	7.0	25.0	
4.00			379							
4.54	4.50	4.60	13316	672300	alpha-BHC	0.020000	0.019806	-1.0	25.0	
5.32	5.27	5.37	12640	637150	gamma-BHC (Lindane)	0.020000	0.019839	-0.8	25.0	
5.53			94							
5.73			126							
6.25	6.20	6.30	13307	662950	Heptachlor	0.020000	0.020072	0.4	25.0	
7.16			76							
8.25			145							
6			128							
	9.01	9.15	10969	546800	Endosulfan I	0.020000	0.020061	0.3	25.0	
0	9.63	9.77	19897	500075	Dieldrin	0.040000	0.039787	-0.5	25.0	
10.34	10.27	10.41	16922	419850	Endrin	0.040000	0.040305	0.8	25.0	
10.87	10.80	10.94	13833	348450	4,4'-DDD	0.040000	0.039698	-0.8	25.0	
11.55	11.48	11.62	15777	420675	4,4'-DDT	0.040000	0.037504	-6.2	25.0	
11.87			188							
13.22	13.15	13.29	35942	189110	Methoxychlor	0.200000	0.190056	-5.0	25.0	
13.35			1840							
13.59			514							
15.04			67							
15.83			1473							
16.33	16.23	16.43	18611	482325	Decachlorobiphenyl	0.040000	0.038587	-3.5	25.0	

Data File: /chem/tracegc81.i/d050930d.b/063dINDBMJH.d

Date : 01-OCT-2005 15:31

Client ID: INDBMJH

Sample Info: INDBMJH

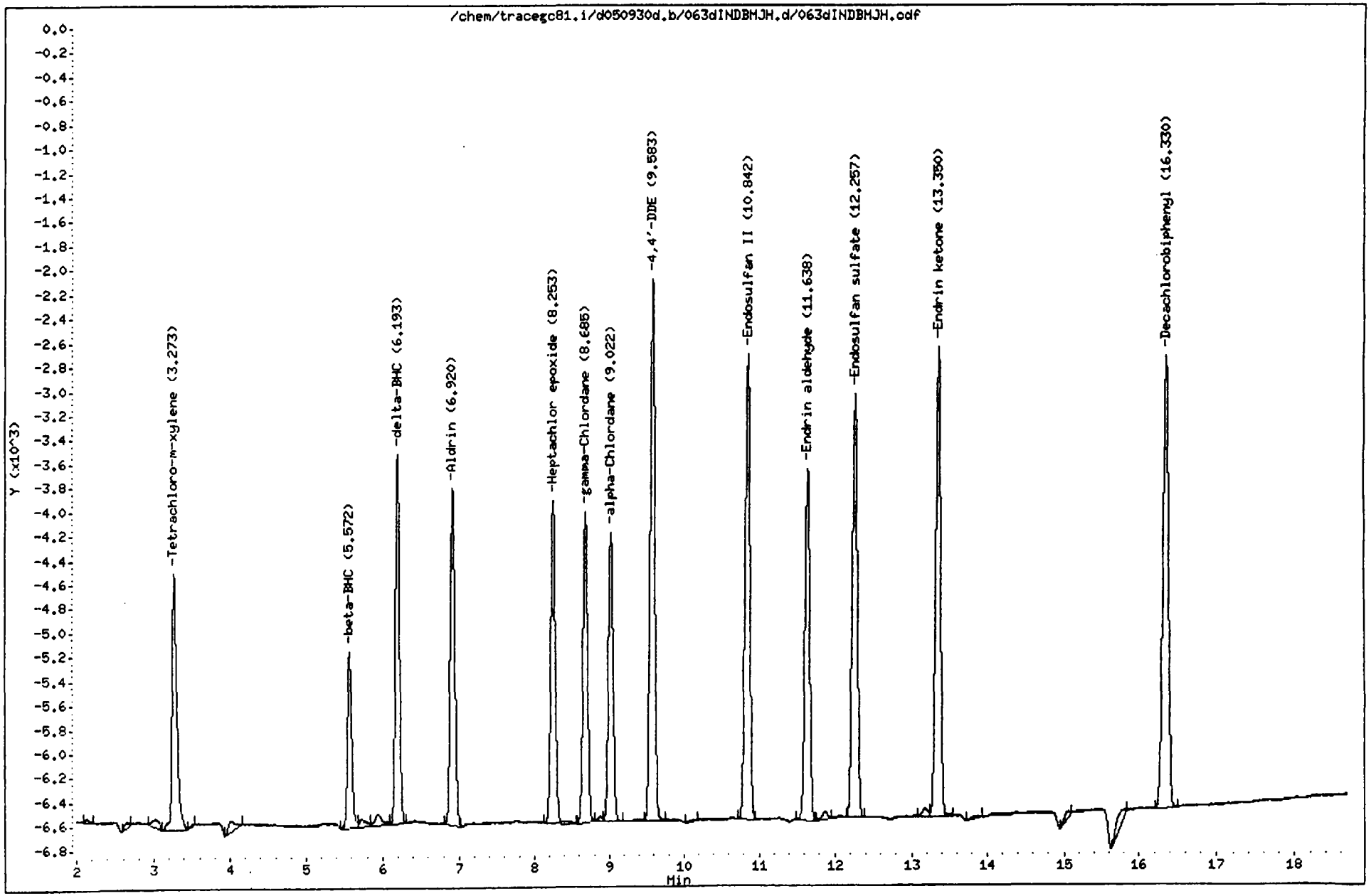
Volume Injected (uL): 1.0

Column phase: olpest2

Instrument: tracegc81.i

Operator: 2512

Column diameter: 0.53



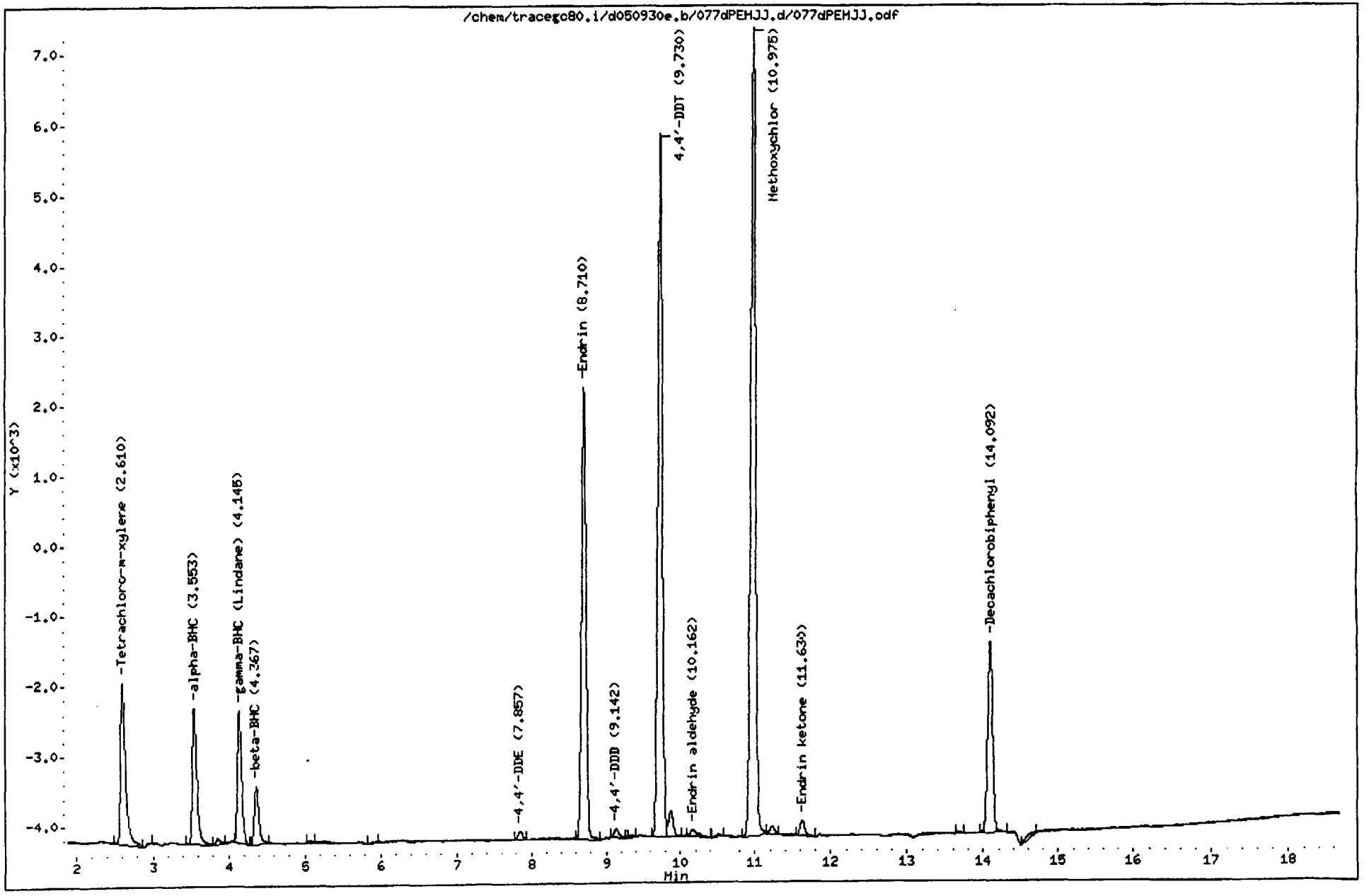
CompuChem Environmental Corporation

Lab Smp Id : INDBMJH Client Smp Id : INDBMJH
Sample Type : CONT CAL: Level 2 Sublist : *INDB*
Inj Date : 01-OCT-2005 15:31 Inst ID : TRACEGC81
Operator : 2512
Method : /chem/tracegc81.i/d050930d.b/2ulOLM04_clpest2v6.m
Misc. Info : None

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CALC AMT ON-COLUMN (Ng)	%D	%D LIMIT	FLAGS
0.13			838							
0.54			1557							
0.57			2731							
0.64			1504							
0.67			5123							
1.08			457							
1.20			446							
1.34			331							
1.65			368							
2.13			98							
2.66			166							
3.01			438							
3.27	3.22	3.32	9281	423700	Tetrachloro-m-xylene	0.020000	0.021904	9.5	25.0	
3.51			64							
4.01			601							
5.57	5.52	5.62	5680	253500	beta-BHC	0.020000	0.022406	12.0	25.0	
5.73			400							
5.95			665							
6.19	6.15	6.25	11182	543450	delta-BHC	0.020000	0.020576	2.9	25.0	
6.92	6.87	6.97	11591	561500	Aldrin	0.020000	0.020642	3.2	25.0	
8.25	8.19	8.33	11416	530250	Heptachlor epoxide	0.020000	0.021530	7.6	25.0	
	8.62	8.76	11094	530000	gamma-Chlordane	0.020000	0.020932	4.7	25.0	
			153							
9.02	8.96	9.10	10365	491800	alpha-Chlordane	0.020000	0.021075	5.4	25.0	
9.58	9.51	9.65	19349	460650	4,4'-DDE	0.040000	0.042004	5.0	25.0	
10.12			93							
10.84	10.77	10.91	16845	402775	Endosulfan II	0.040000	0.041823	4.6	25.0	
11.64	11.57	11.71	12695	313450	Endrin aldehyde	0.040000	0.040499	1.2	25.0	
11.88			313							
12.26	12.19	12.33	15602	400500	Endosulfan sulfate	0.040000	0.038958	-2.6	25.0	
13.18			291							
13.35	13.28	13.42	17345	414175	Endrin ketone	0.040000	0.041878	4.7	25.0	
13.85			154							
15.07			332							
15.81			954							
16.33	16.23	16.43	18561	482325	Decachlorobiphenyl	0.040000	0.038483	-3.8	25.0	

Data File: /chem/tracegc80.i/d050930e.b/077dPEMJJ.d
Date : 01-OCT-2005 20:34
Client ID: PEMJJ
Sample Info: PEMJJ
Volume Injected (uL): 1.0
Column phase: olpest

Instrument: tracegc80.i
Operator: 2512
Column diameter: 0.53



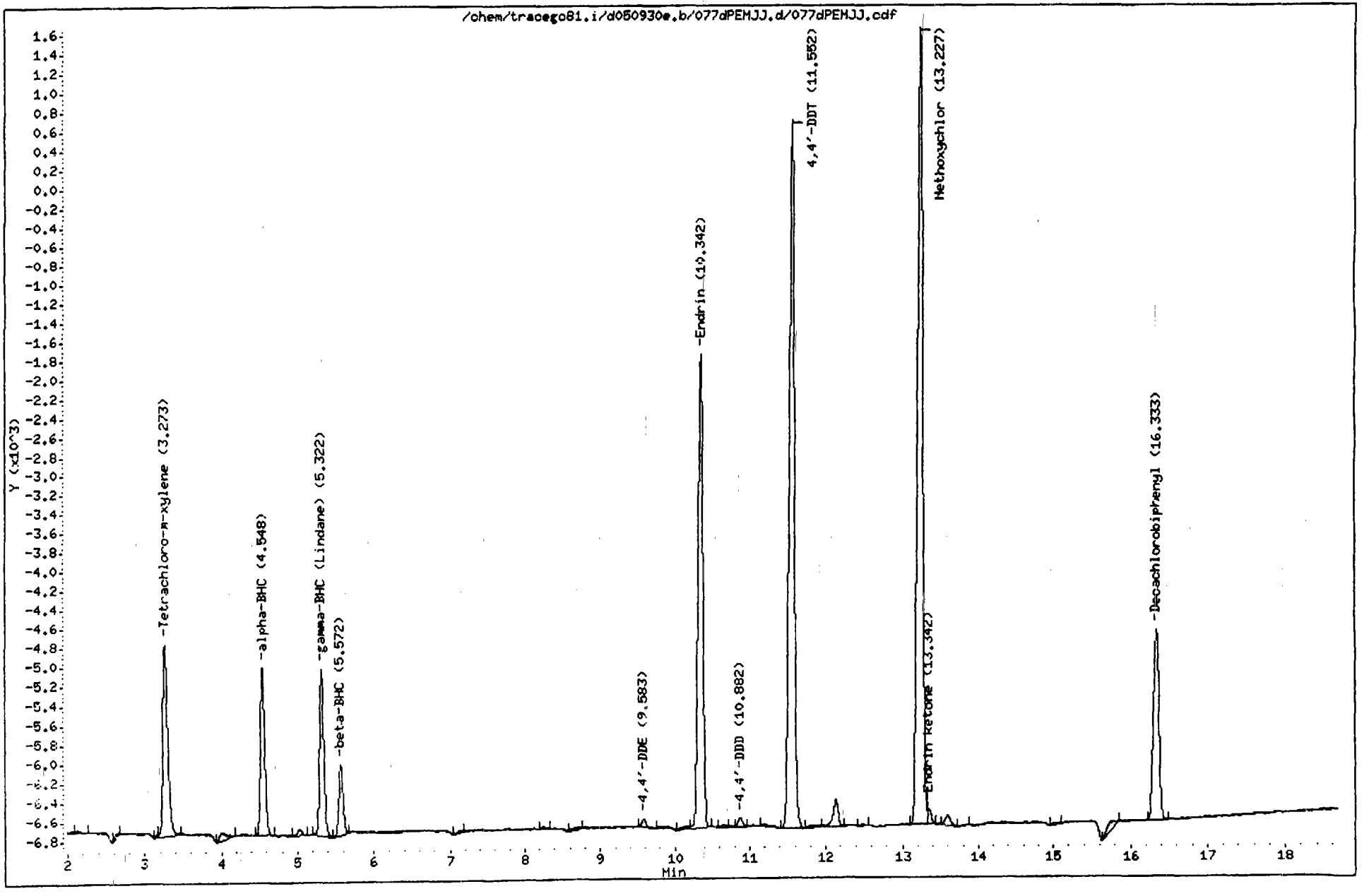
CompuChem Environmental Corporation

Lab Smp Id : PEMJJ
Client Smp Id : PEMJJ
Sample Type : PEM
Sublist : PEM
Inj Date : 01-OCT-2005 20:34
Inst ID : TRACEGC80
Operator : 2512
Spike Sublist : PEM
Method : /chem/tracegc80.i/d050930e.b/2ulOLM04_clpestv6.m
Misc. Info : None

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CALC AMT ON-COLUMN (Ng)	%D	%D LIMIT	FLAGS
0.13			453							
0.56			2027							
0.60			839							
0.70			7880							
1.02			397							
1.26			370							
1.46			206							
1.86			119							
2.61	2.55	2.65	11104	513950	Tetrachloro-m-xylene	0.020000	0.021605	8.0	25.0	
2.94			118							
3.55	3.50	3.60	7962	816650	alpha-BHC	0.010000	0.009750	-2.5	25.0	
3.87			304							
4.14	4.09	4.19	7310	759250	gamma-BHC (Lindane)	0.010000	0.009628	-3.7	25.0	
4.37	4.32	4.42	3522	303500	beta-BHC	0.010000	0.011606	16.1	25.0	
5.09			118							
5.90			112							
7.86	7.78	7.92	506	526150	4,4'-DDE	0.000000	0.000961			J
8.71	8.64	8.78	26172	485700	Endrin	0.050000	0.053886	7.8	25.0	
9.14	9.07	9.21	562	411450	4,4'-DDD	0.000000	0.001366			J
9.36			102							
73	9.66	9.80	41419	457225	4,4'-DDT	0.100000	0.090588	-9.4	25.0	
7			1606							
46	10.09	10.23	757	367350	Endrin aldehyde	0.000000	0.002061			J
10.52			213							
10.98	10.90	11.04	50145	222300	Methoxychlor	0.250000	0.225572	-9.8	25.0	
11.23			539							
11.63	11.56	11.70	1036	495800	Endrin ketone	0.000000	0.002090			J
13.68			81							
14.09	13.99	14.19	12589	615700	Decachlorobiphenyl	0.020000	0.020447	2.2	25.0	
14.69			419							

Data File: /chem/tracegc81.i/d050930e.b/077dPEMJJ.d
Date : 01-OCT-2005 20:34
Client ID: PEMJJ
Sample Info: PEMJJ
Volume Injected (uL): 1.0
Column phase: clpest2

Instrument: tracegc81.i
Operator: 2512
Column diameter: 0.53



CompuChem Environmental Corporation

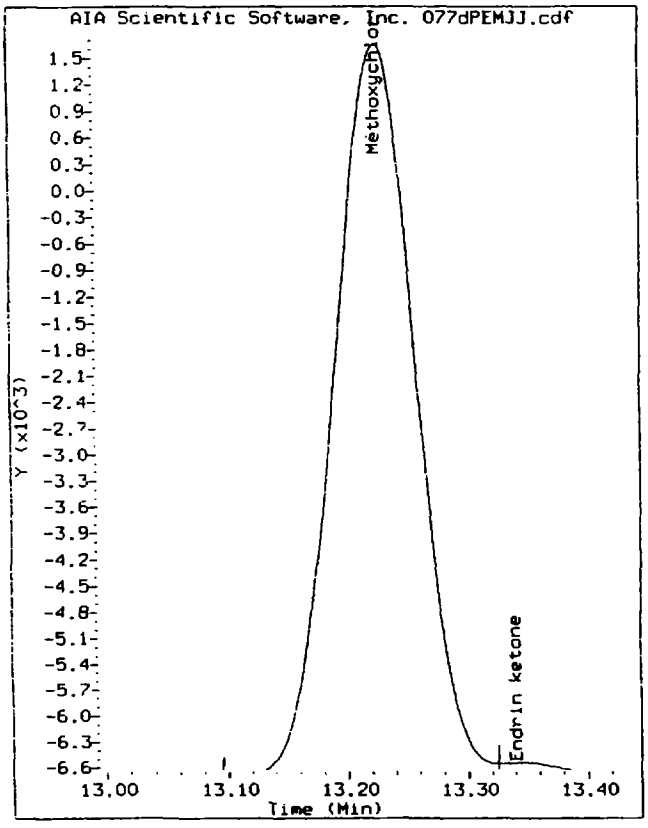
Lab Smp Id : PEMJJ Client Smp Id : PEMJJ
Sample Type : PEM Sublist : PEM
Inj Date : 01-OCT-2005 20:34 Inst ID : TRACEGC81
Operator : 2512 Spike Sublist : PEM
Method : /chem/tracegc81.i/d050930e.b/2ulOLM04_clpest2v6.m
Misc. Info : None

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CALC AMT ON-COLUMN (Ng)	%D	%D LIMIT	FLAGS
0.12			714							
0.53			1765							
0.57			2453							
0.65			1829							
0.67			6862							
0.94			501							
1.11			184							
1.35			476							
1.68			322							
2.15			88							
2.66			147							
3.17			80							
3.27	3.22	3.32	8678	423700	Tetrachloro-m-xylene	0.020000	0.020481	2.4	25.0	
4.01			537							
4.55	4.50	4.60	6616	672300	alpha-BHC	0.010000	0.009841	-1.6	25.0	
5.03			270							
5.32	5.27	5.37	6640	637150	gamma-BHC (Lindane)	0.010000	0.010421	4.2	25.0	
5.57	5.52	5.62	2871	253500	beta-BHC	0.010000	0.011324	13.2	25.0	
7.17			83							
8.26			121							
9			162							
9	9.51	9.65	455	460650	4,4'-DDE	0.000000	0.000988			J
10.14			203							
10.34	10.27	10.41	21663	419850	Endrin	0.050000	0.051596	3.2	25.0	
10.66			146							
10.88	10.80	10.94	448	348450	4,4'-DDD	0.000000	0.001285			J
11.20			259							
11.55	11.48	11.62	33488	420675	4,4'-DDT	0.100000	0.079607	-20.4	25.0	
11.87			185							
12.14			1335							
12.49			84							
13.23	13.15	13.29	39207	189110	Methoxychlor	0.250000	0.207326	-17.1	25.0	M2
13.34	13.28	13.42	535	414175	Endrin ketone	0.000000	0.001292			JM2
13.60			582							
13.81			92							
15.05			138							
15.79			709							
16.33	16.23	16.43	9795	482325	Decachlorobiphenyl	0.020000	0.020308	1.5	25.0	

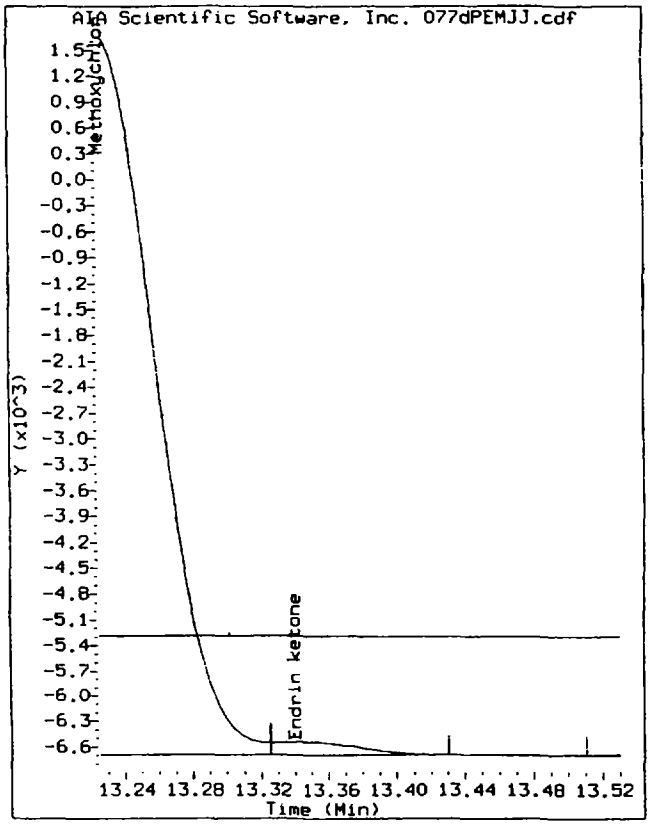
6/15/06

TAJ 10/4/05

Manually Integrated Peaks



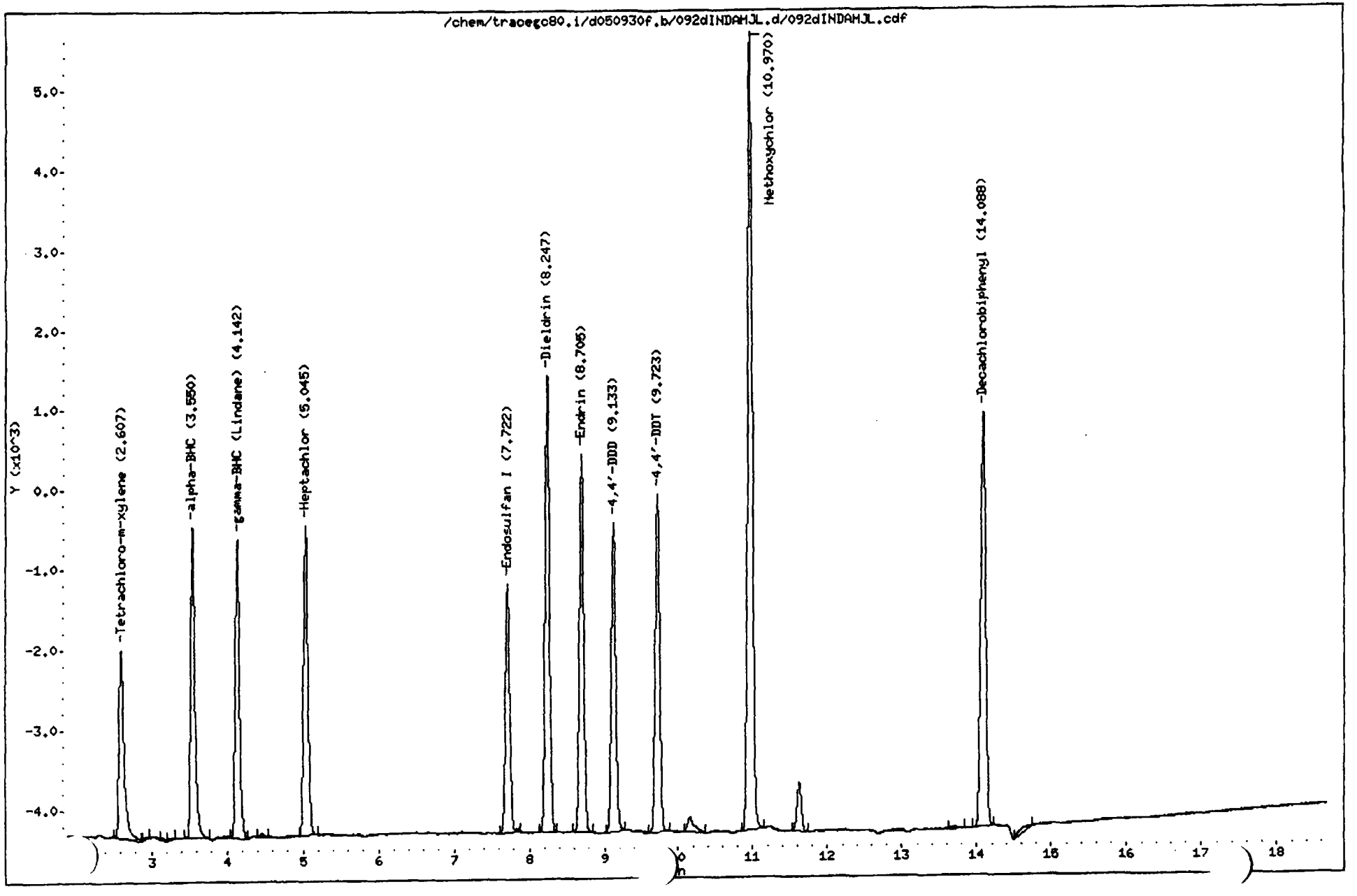
Start: 13.10 Stop: 13.32



Start: 13.32 Stop: 13.43

Data File: /chem/tracegc80.i/d050930f.b/092dINDAMJL.d
Date : 02-OCT-2005 02:00
Client ID: INDAMJL
Sample Info: INDAMJL
Volume Injected (uL): 1.0
Column phase: olpest

Instrument: tracegc80.i
Operator: 2612
Column diameter: 0.53



CompuChem Environmental Corporation

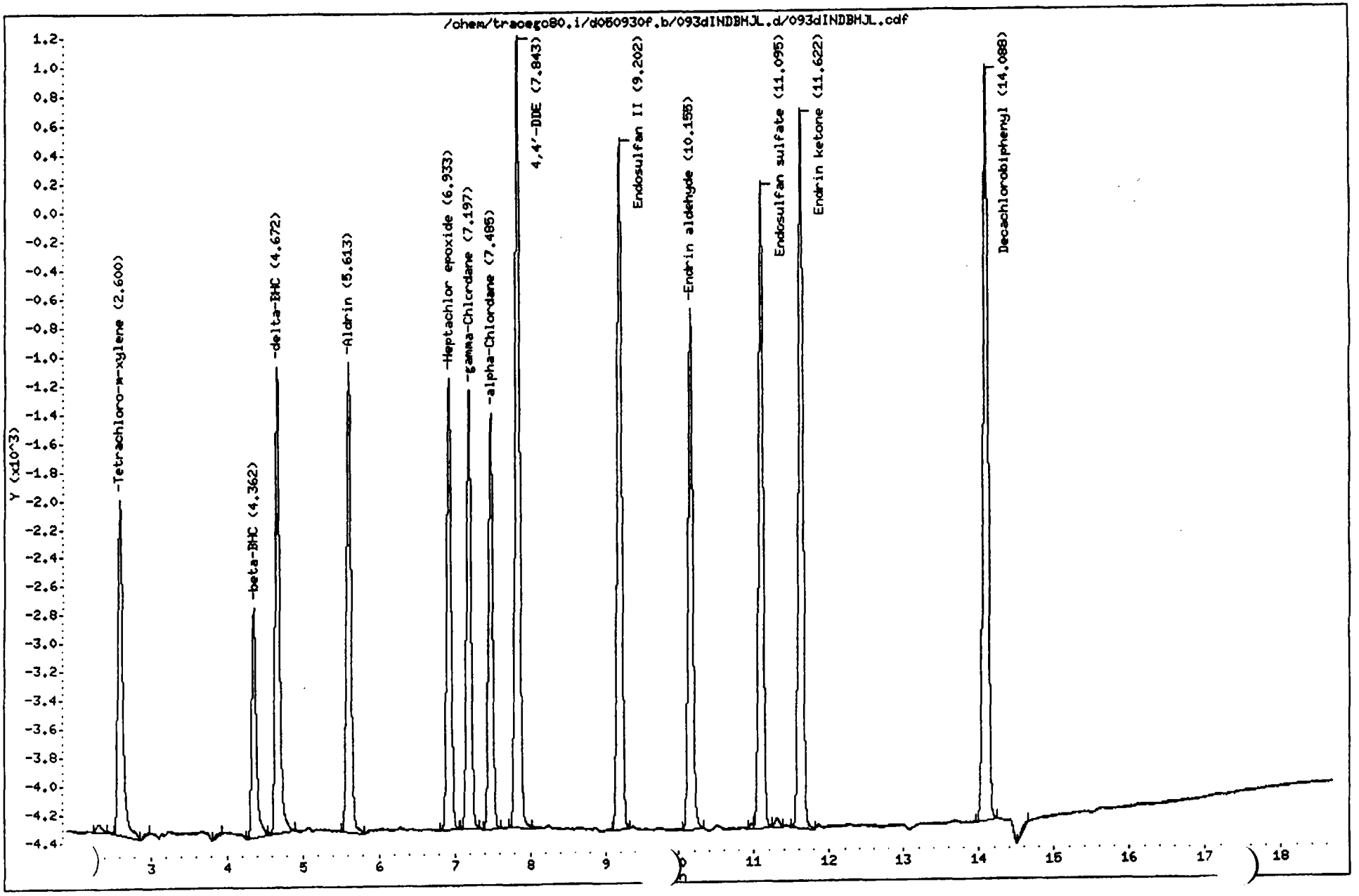
Lab Smp Id : INDAMJL
Client Smp Id : INDAMJL
Sample Type : CONT CAL: Level 2
Sublist : INDA
Inj Date : 02-OCT-2005 02:00
Inst ID : TRACEGC80
Operator : 2512
Method : /chem/tracegc80.i/d050930f.b/2ulOLM04_clpestv6.m
Misc. Info : None

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CALC AMT ON-COLUMN (Ng)	%D	%D LIMIT	FLAGS
0.13			765							
0.56			987							
0.59			2148							
0.70			6849							
1.02			312							
1.27			292							
1.46			202							
2.61	2.55	2.65	10871	513950	Tetrachloro-m-xylene	0.020000	0.021151	5.8	25.0	
2.94			77							
3.16			118							
3.30			103							
3.55	3.50	3.60	15405	816650	alpha-BHC	0.020000	0.018864	-5.7	25.0	
4.14	4.09	4.19	14280	759250	gamma-BHC (Lindane)	0.020000	0.018808	-6.0	25.0	
4.47			132							
5.04	5.00	5.10	15434	784550	Heptachlor	0.020000	0.019673	-1.6	25.0	
7.72	7.65	7.79	12656	629050	Endosulfan I	0.020000	0.020119	0.6	25.0	
8.25	8.18	8.32	22908	586725	Dieldrin	0.040000	0.039044	-2.4	25.0	
8.70	8.64	8.78	19038	485700	Endrin	0.040000	0.039197	-2.0	25.0	
9.13	9.07	9.21	15942	411450	4,4'-DDD	0.040000	0.038745	-3.1	25.0	
9.72	9.66	9.80	17610	457225	4,4'-DDT	0.040000	0.038515	-3.7	25.0	
10.16			1099							
10.97	10.90	11.04	43309	222300	Methoxychlor	0.200000	0.194821	-2.6	25.0	
11.62			2555							
13.69			165							
14.09	13.99	14.19	23776	615700	Decachlorobiphenyl	0.040000	0.038616	-3.5	25.0	
14.72			584							

Data File: /chem/tracegc80.i/d050930f.b/093dINDBHJL.d
Date : 02-OCT-2005 02:22
Client ID: INDBHJL
Sample Info: INDBHJL
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc80.i

Operator: 2612
Column diameter: 0.53

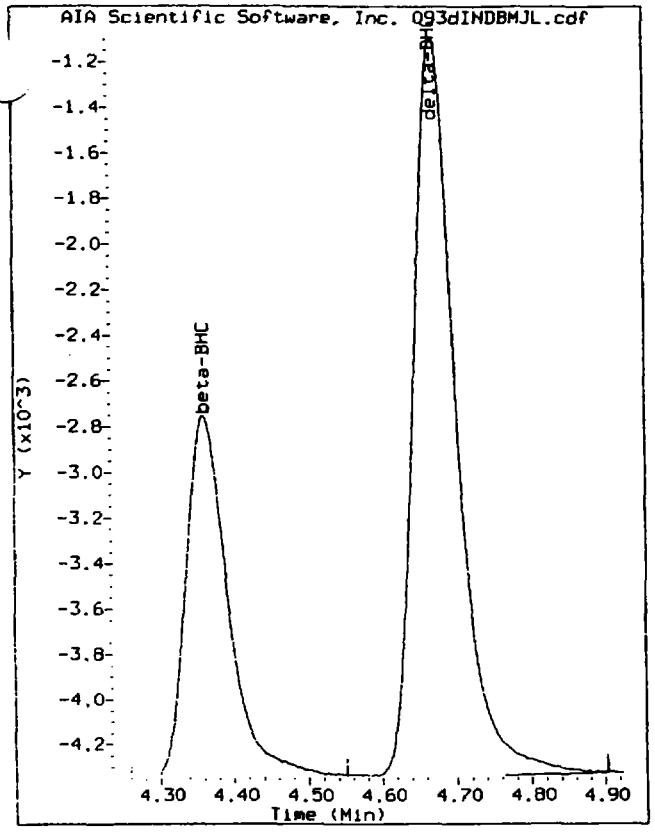


CompuChem Environmental Corporation

Lab Smp Id : INDBMJL Client Smp Id : INDBMJL
Sample Type : CONT CAL: Level 2 Sublist : INDB
Inj Date : 02-OCT-2005 02:22 Inst ID : TRACEGC80
Operator : 2512
Method : /chem/tracegc80.i/d050930f.b/2ulOLM04_clpestv6.m
Misc. Info : None

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CALC AMT ON-COLUMN (Ng)	%D	%D LIMIT	FLAGS
0.12			769							
0.56			1020							
0.59			1170							
0.68			5983							
1.02			302							
1.46			230							
1.72			87							
1.85			92							
2.33			288							
2.60	2.55	2.65	10407	513950	Tetrachloro-m-xylene	0.020000	0.020249	1.2	25.0	
2.96			107							
3.90			116							
4.36	4.32	4.42	6664	303500	beta-BHC	0.020000	0.021957	9.8	25.0	
4.67	4.63	4.73	12917	661850	delta-BHC	0.020000	0.019516	-2.4	25.0	
5.61	5.57	5.67	13047	636950	Aldrin	0.020000	0.020483	2.4	25.0	
6.93	6.87	7.01	12445	607700	Heptachlor epoxide	0.020000	0.020479	2.4	25.0	
7.20	7.13	7.27	12416	608400	gamma-Chlordane	0.020000	0.020407	2.0	25.0	
7.48	7.42	7.56	11631	554050	alpha-Chlordane	0.020000	0.020992	5.0	25.0	
7.84	7.78	7.92	22391	526150	4,4'-DDE	0.040000	0.042556	6.4	25.0	
9.20	9.14	9.28	19642	467975	Endosulfan II	0.040000	0.041971	4.9	25.0	
10.16	10.09	10.23	15389	367350	Endrin aldehyde	0.040000	0.041891	4.7	25.0	
10.97			115							
11.10	11.03	11.17	19196	482850	Endosulfan sulfate	0.040000	0.039756	-0.6	25.0	
11.31			317							
11.62	11.56	11.70	20954	495800	Endrin ketone	0.040000	0.042263	5.7	25.0	
14.09	13.99	14.19	24161	615700	Decachlorobiphenyl	0.040000	0.039241	-1.9	25.0	
14.64			212							

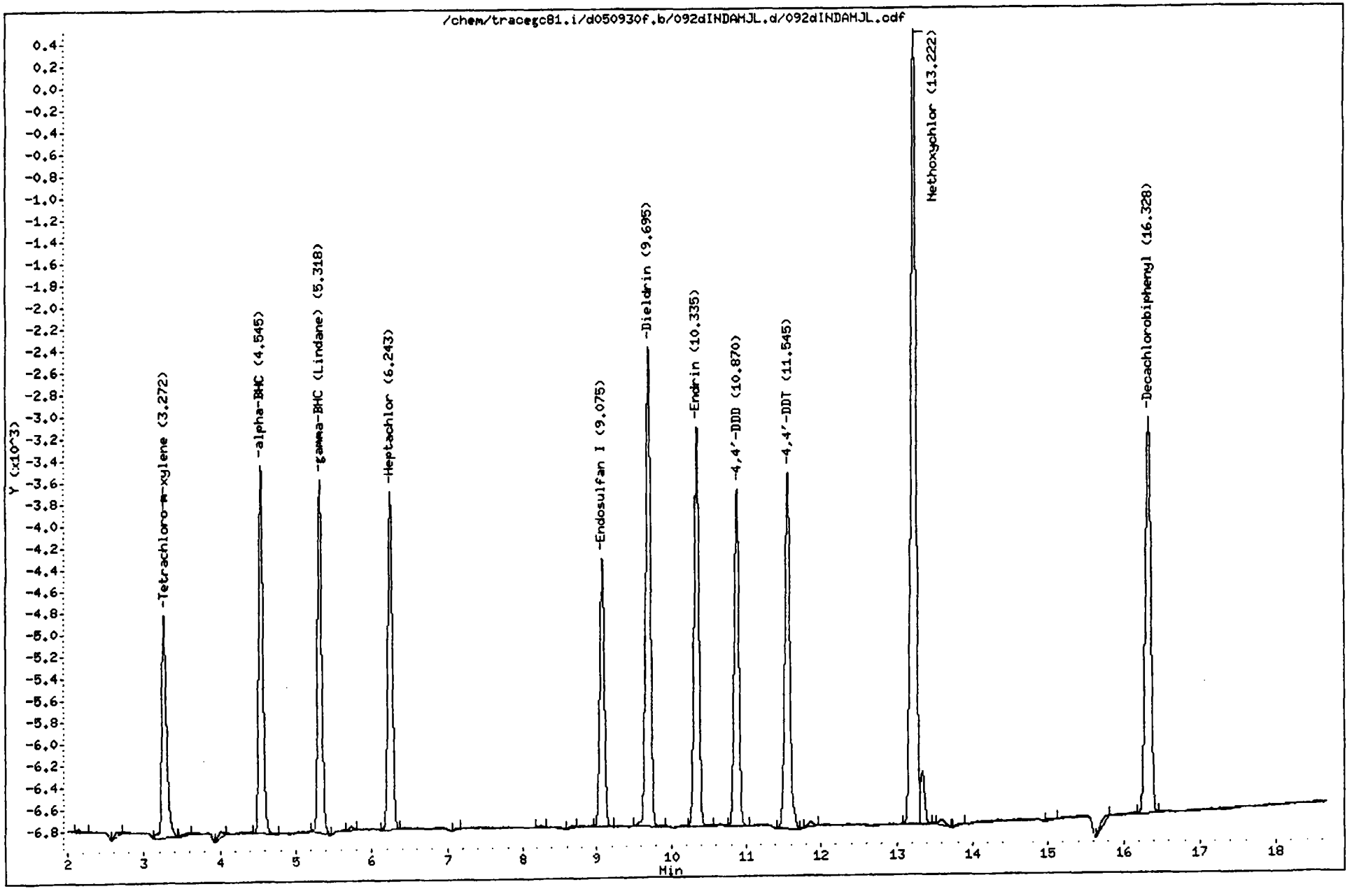
Non-Fully Resolved Peaks



Resolution: 98.0%

Data File: /chem/tracegc81.i/d050930f.b/092dINDAHJL.d
Date : 02-OCT-2005 02:00
Client ID: INDAHJL
Sample Info: INDAHJL
Volume Injected (uL): 1.0
Column phase: clpest2

Instrument: tracegc81.i
Operator: 2512
Column diameter: 0.53



CompuChem Environmental Corporation

Lab Smp Id : INDAMJL Client Smp Id : INDAMJL
Sample Type : CONT CAL: Level 2 Sublist : INDA
Inj Date : 02-OCT-2005 02:00 Inst ID : TRACEGC81
Operator : 2512
Method : /chem/tracegc81.i/d050930f.b/2ulOLM04_clpest2v6.m
Misc. Info : None

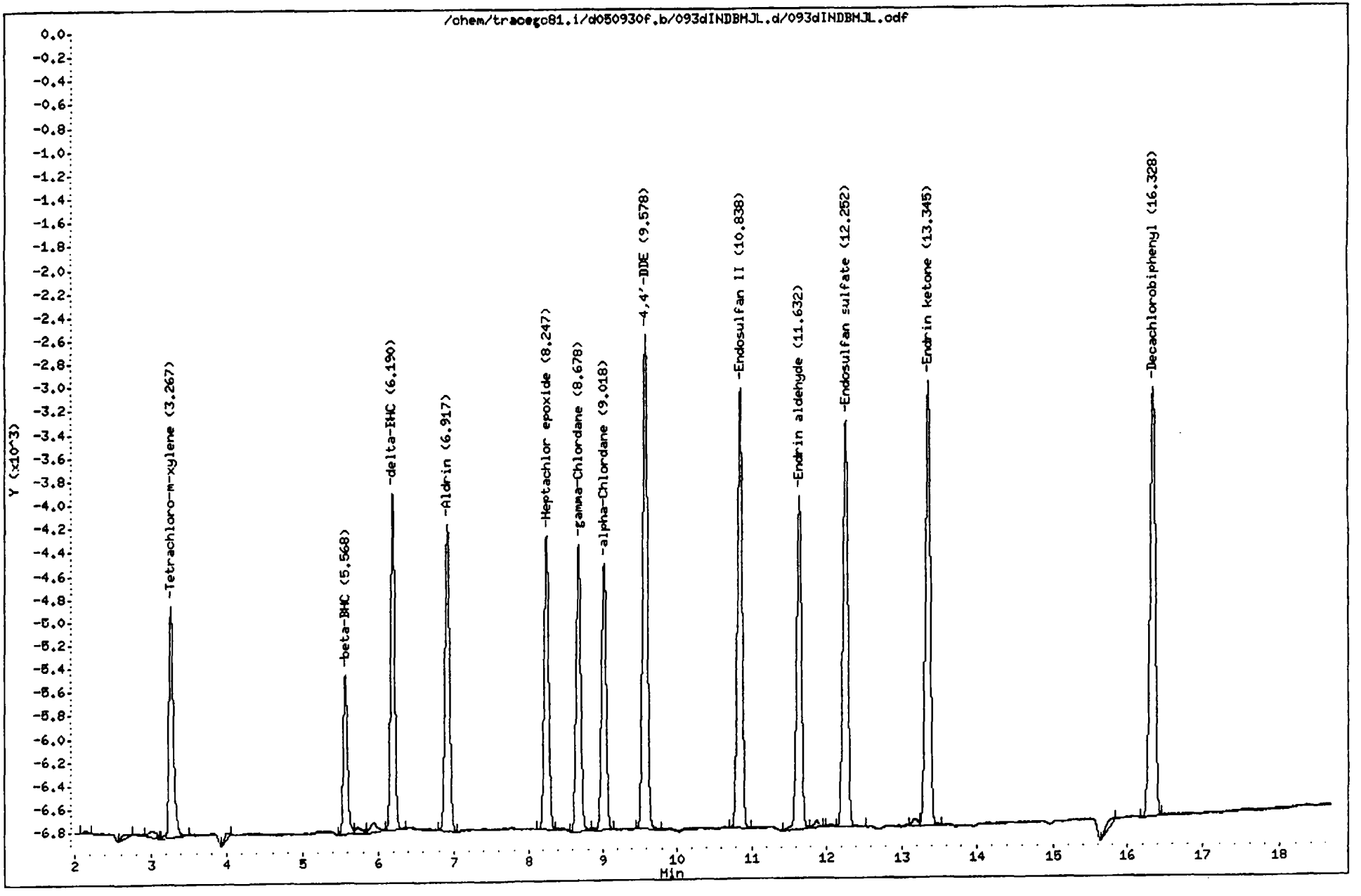
RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CALC AMT ON-COLUMN (Ng)	%D	%D LIMIT	FLAGS
0.14			640							
0.57			5254							
0.65			1904							
0.67			4749							
0.94			127							
1.09			64							
1.34			161							
1.66			353							
1.83			179							
2.14			100							
2.65			210							
3.27	3.22	3.32	8785	423700	Tetrachloro-m-xylene	0.020000	0.020734	3.7	25.0	
3.59			108							
4.00			250							
4.54	4.50	4.60	12853	672300	alpha-BHC	0.020000	0.019118	-4.4	25.0	
5.32	5.27	5.37	12171	637150	gamma-BHC (Lindane)	0.020000	0.019102	-4.5	25.0	
5.73			132							
6.24	6.20	6.30	12751	662950	Heptachlor	0.020000	0.019233	-3.8	25.0	
7.15			55							
8.26			82							
8.67			123							
9.08	9.01	9.15	10542	546800	Endosulfan I	0.020000	0.019279	-3.6	25.0	
	9.63	9.77	19132	500075	Dieldrin	0.040000	0.038258	-4.4	25.0	
	10.27	10.41	15927	419850	Endrin	0.040000	0.037935	-5.2	25.0	
10.87	10.80	10.94	13307	348450	4,4'-DDD	0.040000	0.038189	-4.5	25.0	
11.54	11.48	11.62	15416	420675	4,4'-DDT	0.040000	0.036646	-8.4	25.0	
11.87			235							
13.22	13.15	13.29	34318	189110	Methoxychlor	0.200000	0.181471	-9.3	25.0	
13.34			1862							
13.60			303							
13.85			107							
15.05			99							
15.79			522							
16.33	16.23	16.43	18011	482325	Decachlorobiphenyl	0.040000	0.037342	-6.6	25.0	

Data File: /chem/tracegc81.i/d050930f.b/093dINDBMJL.d
Date : 02-OCT-2005 02:22
Client ID: INDBMJL
Sample Info: INDBMJL
Volume Injected (uL): 1.0
Column phase: olpest2

Instrument: tracegc81.i

Operator: 2512
Column diameter: 0.53

/chem/tracegc81.i/d050930f.b/093dINDBMJL.d/093dINDBMJL.odf



CompuChem Environmental Corporation

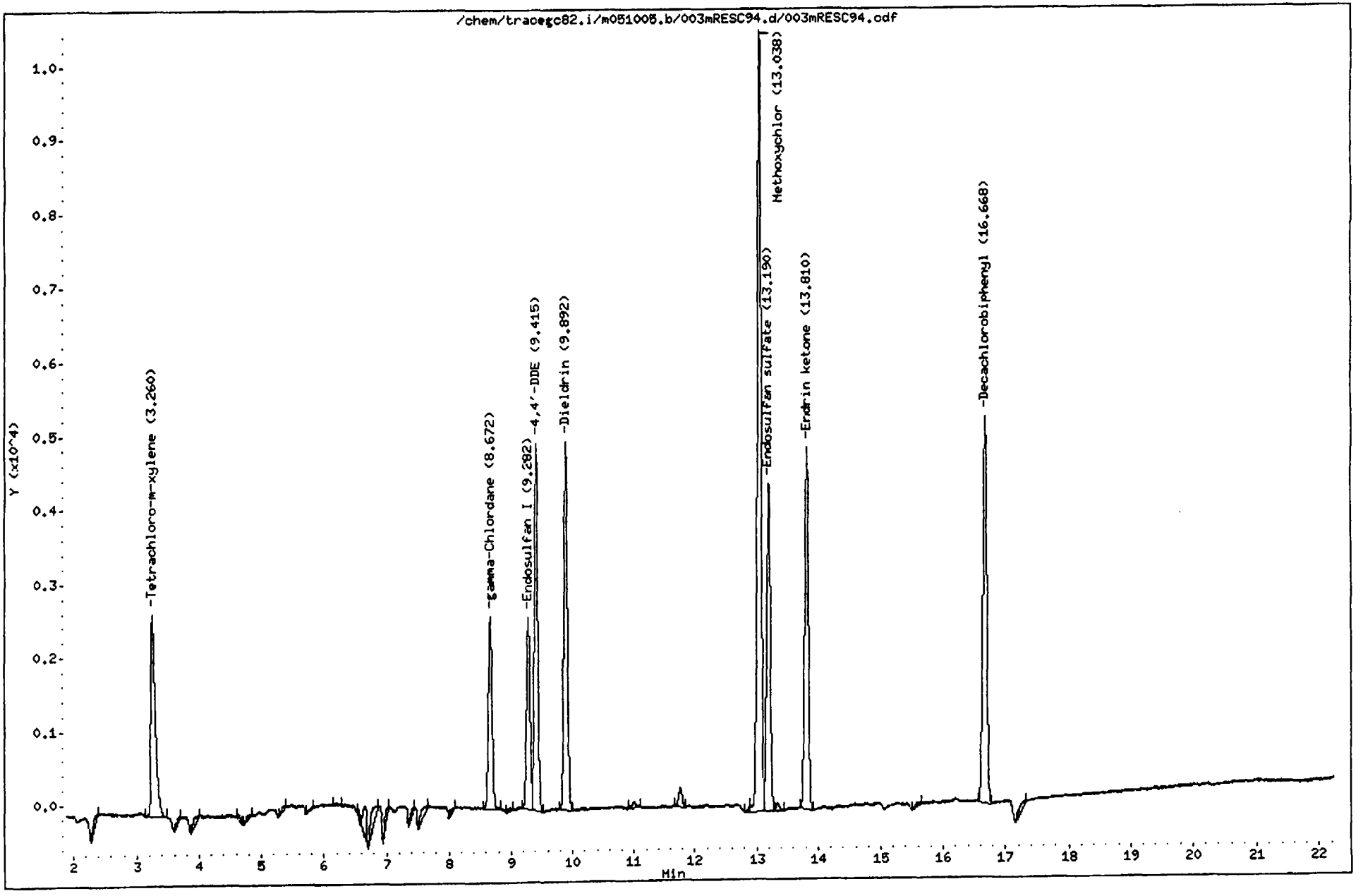
L Smp Id : INDBMJL Client Smp Id : INDBMJL
Sample Type : CONT CAL: Level 2 Sublist : INDB
Inj Date : 02-OCT-2005 02:22 Inst ID : TRACEGC81
Operator : 2512
Method : /chem/tracegc81.i/d050930f.b/2ulOLM04_clpest2v6.m
Misc. Info : None

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CALC AMT ON-COLUMN (Ng)	%D	%D LIMIT	FLAGS
0.12			728							
0.53			1651							
0.57			2724							
0.64			1616							
0.67			4457							
0.85			185							
1.09			87							
1.34			303							
1.66			278							
2.14			95							
2.64			250							
3.00			382							
3.27	3.22	3.32	8312	423700	Tetrachloro-m-xylene	0.020000	0.019618	-1.9	25.0	
4.02			214							
5.57	5.52	5.62	5305	253500	beta-BHC	0.020000	0.020927	4.6	25.0	
5.72			382							
5.94			614							
6.19	6.15	6.25	10653	543450	delta-BHC	0.020000	0.019602	-2.0	25.0	
6.92	6.87	6.97	10947	561500	Aldrin	0.020000	0.019496	-2.5	25.0	
8.25	8.19	8.33	10453	530250	Heptachlor epoxide	0.020000	0.019714	-1.4	25.0	
8.68	8.62	8.76	10637	530000	gamma-Chlordane	0.020000	0.020070	0.4	25.0	
9.02	8.96	9.10	9948	491800	alpha-Chlordane	0.020000	0.020227	1.1	25.0	
	9.51	9.65	18440	460650	4,4'-DDE	0.040000	0.040031	0.1	25.0	
	10.77	10.91	16337	402775	Endosulfan II	0.040000	0.040561	1.4	25.0	
11.63	11.57	11.71	12790	313450	Endrin aldehyde	0.040000	0.040804	2.0	25.0	
11.88			307							
12.06			95							
12.25	12.19	12.33	15645	400500	Endosulfan sulfate	0.040000	0.039063	-2.3	25.0	
13.17			324							
13.34	13.28	13.42	16936	414175	Endrin ketone	0.040000	0.040891	2.2	25.0	
15.81			504							
16.33	16.23	16.43	18241	482325	Decachlorobiphenyl	0.040000	0.037819	-5.5	25.0	

Data File: /chem/tracegc82.i/m051005.b/003mRESC94.d
Date : 05-OCT-2005 15:57
Client ID: RESC94
Sample Info: RESC94
Volume Injected (uL): 1.0
Column phase: olpest

Instrument: tracegc82.i

Operator: 2512
Column diameter: 0.53

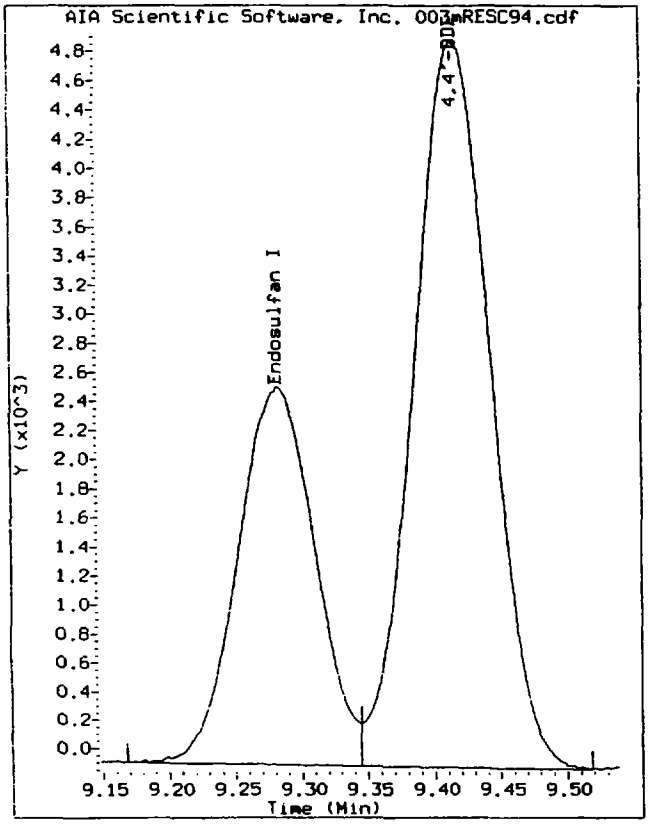


CompuChem Environmental Corporation

L Smp Id : RESC94 Client Smp Id : RESC94
Sample Type : RESOLUTION Sublist : RESC
Inj Date : 05-OCT-2005 15:57 Inst ID : TRACEGC82
Operator : 2512
Method : /chem/tracegc82.i/m051005.b/2ulOLM04_clpestv6.m
Misc. Info : None

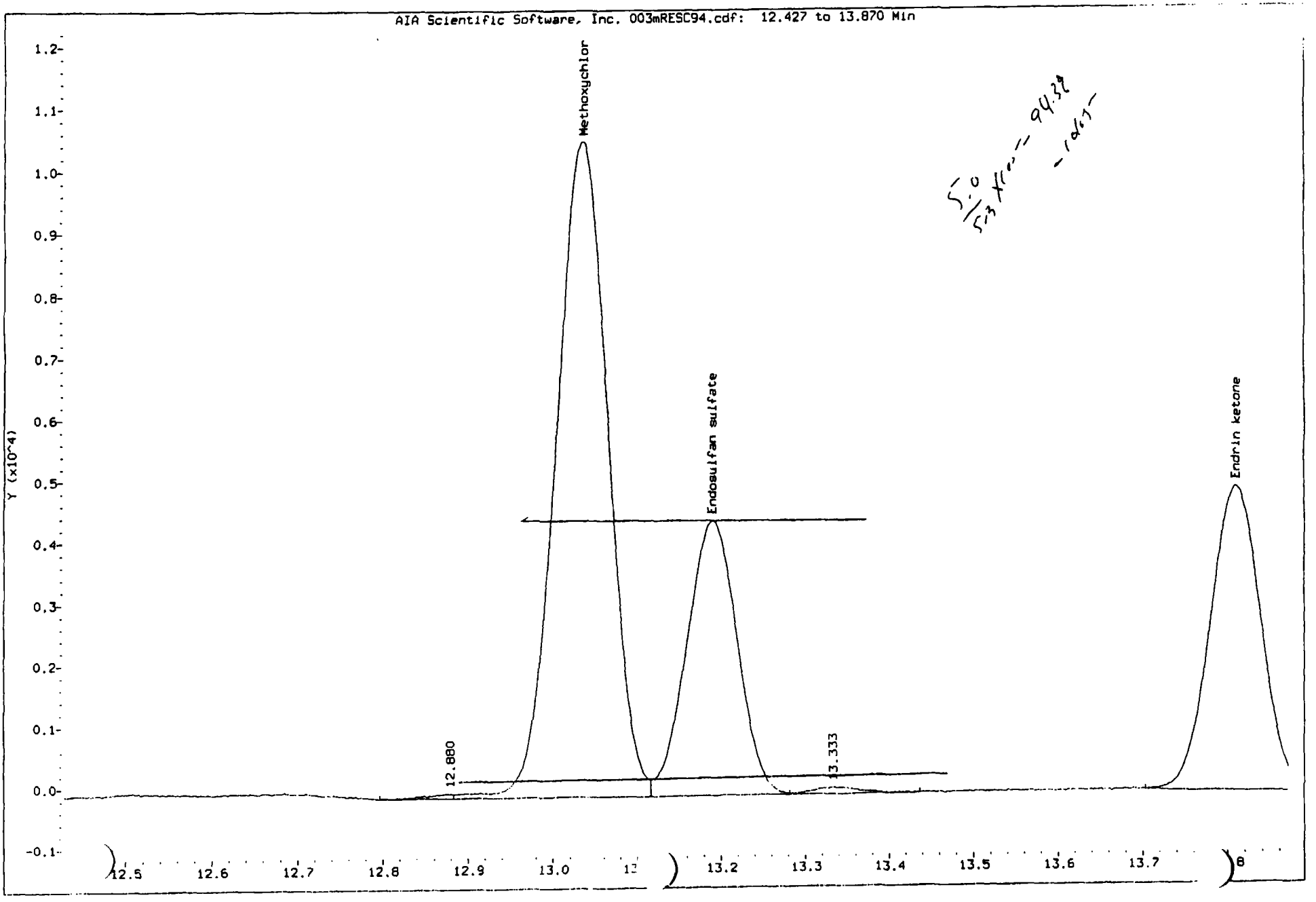
RT	RT WINDOW		AREA	COMPOUND	FLAGS
0.16			3473		
0.72			129514		
1.14			774		
1.59			510		
2.40			576		
3.26	3.21	3.31	13816	Tetrachloro-m-xylene	
3.67			184		
3.97			544		
4.63			191		
4.80			339		
5.35			308		
5.80			136		
6.19			163		
6.55			228		
6.67			1819		
6.85			1420		
7.02			681		
7.42			317		
7.63			863		
8.07			190		
8.67	8.60	8.74	10747	gamma-Chlordane	
8.98			209		
9.28	9.21	9.35	10637	Endosulfan I	
9.42	9.34	9.48	20028	4,4'-DDE	
	9.82	9.96	20086	Dieldrin	
			373		
11.76			1029		
12.88			175		
13.04	12.97	13.11	45513	Methoxychlor	
13.19	13.12	13.26	18469	Endosulfan sulfate	
13.33			394		
13.81	13.74	13.88	20266	Endrin ketone	
15.57			262		
16.67	16.57	16.77	23696	Decachlorobiphenyl	
17.28			549		

Non-Fully Resolved Peaks

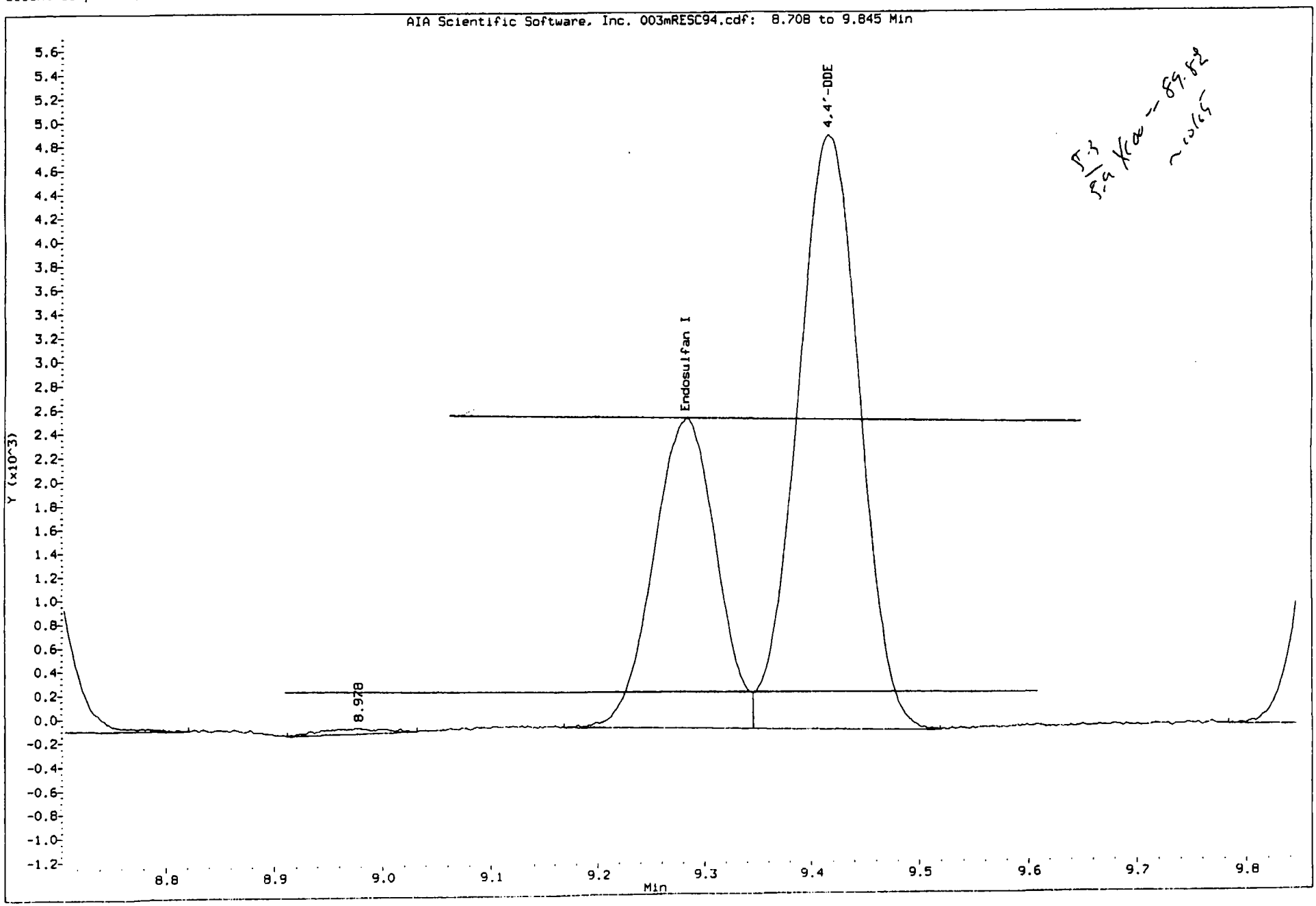


Resolution: 89.0%

Data File: /chem/tracegc82.i/m051005.b/003mRESC94.d/003mRESC94.cdf
Injection Date: 05-OCT-2005 15:57
Instrument: tracegc82.i
Client Sample ID: RESC94

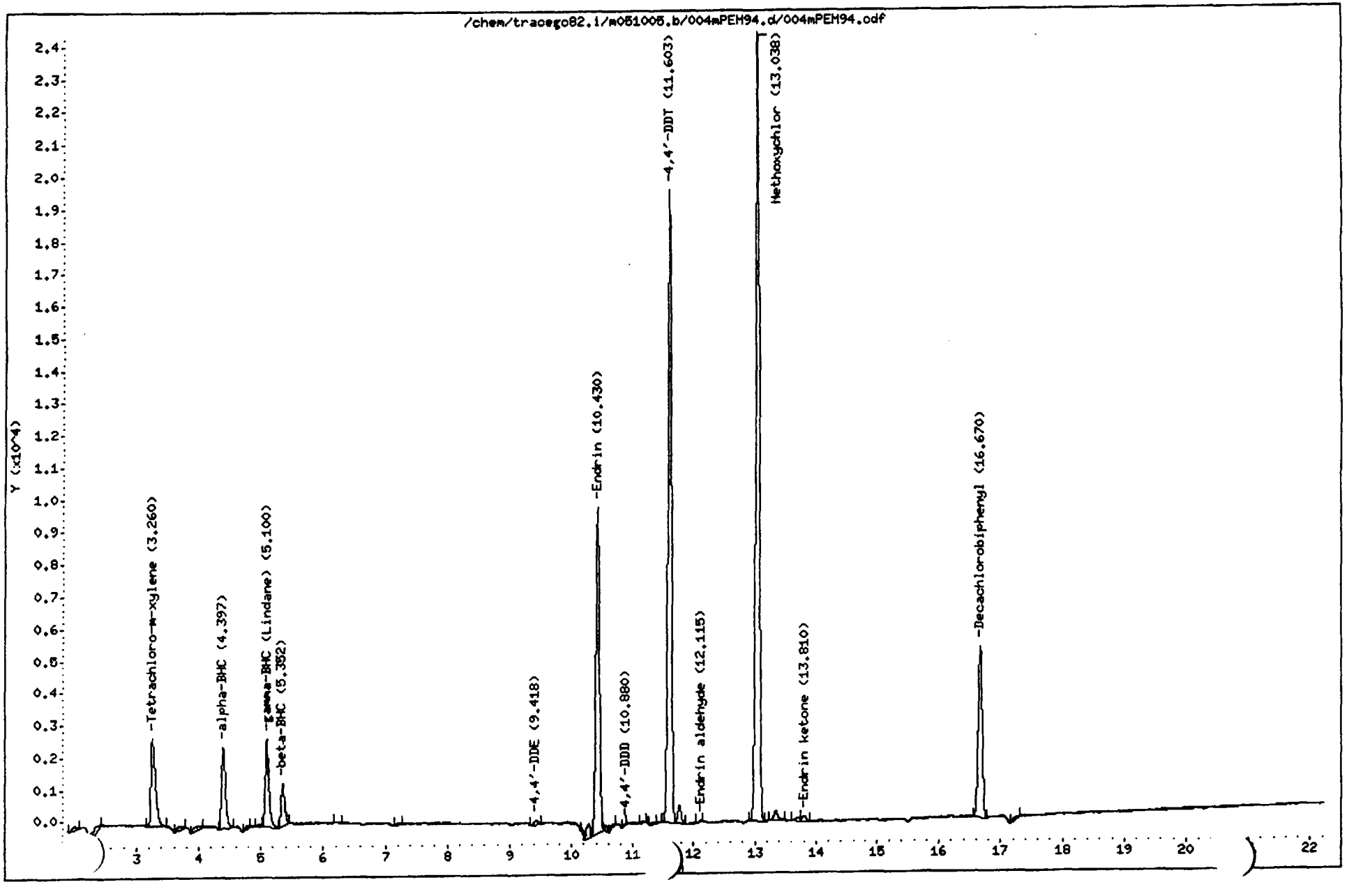


Data File: /chem/tracegc82.i/m051005.b/003mRESC94.d/003mRESC94.cdf
Injection Date: 05-OCT-2005 15:57
Instrument: tracegc82.i
Client Sample ID: RESC94



Data File: /chem/tracegc82.i/m051005.b/004mPEM94.d
Date : 05-OCT-2005 16:23
Client ID: PEM94
Sample Info: PEM94
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc82.i
Operator: 2512
Column diameter: 0.53



CompuChem Environmental Corporation

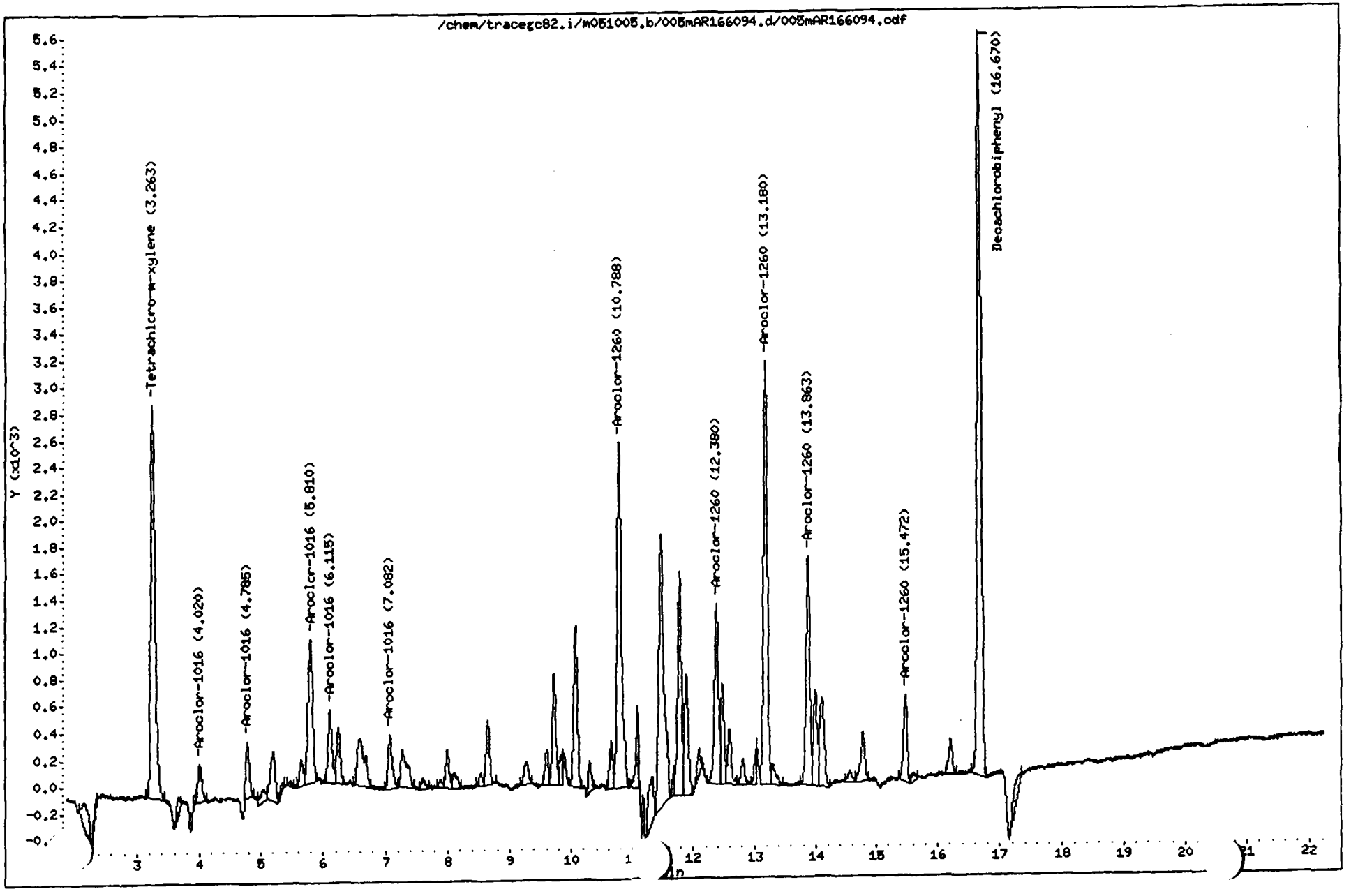
Lab Smp Id : PEM94 Client Smp Id : PEM94
Sample Type : PEM Sublist : PEM
Inj Date : 05-OCT-2005 16:23 Inst ID : TRACEGC82
Operator : 2512 Spike Sublist : PEM
Method : /chem/tracegc82.i/m051005.b/2ulOLM04_clpestv6.m
Misc. Info : None

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CALC AMT ON-COLUMN (Ng)	%D	%D LIMIT	FLAGS
0.15			3449							
0.44			288							
0.72			10933							
0.87			13054							
1.14			1066							
1.56			285							
2.02			661							
2.41			1393							
3.26	3.21	3.31	13759	719050	Tetrachloro-m-xylene	0.020000	0.019135	-4.3	25.0	
3.70			736							
4.02			1134							
4.40	4.34	4.44	11177	1186150	alpha-BHC	0.010000	0.009423	-5.8	25.0	
4.80			319							
4.97			333							
5.10	5.05	5.15	11678	1121350	gamma-BHC (Lindane)	0.010000	0.010414	4.1	25.0	
5.35	5.30	5.40	5377	520750	beta-BHC	0.010000	0.010326	3.3	25.0	
6.21			160							
7.23			217							
9.42	9.34	9.48	703	994300	4,4'-DDE	0.000000	0.000707			J
10.17			399							
10.28			1644							
10.43	10.36	10.50	41883	762275	Endrin	0.050000	0.054945	9.9	25.0	
10.56			568							
10.69			412							
10.88	10.84	10.98	118	709125	4,4'-DDD	0.000000	0.000166			J
11.16			164							
11.31			207							
11.60	11.53	11.67	78389	840075	4,4'-DDT	0.100000	0.093312	-6.7	25.0	
11.76			2163							
12.12	12.03	12.17	178	743350	Endrin aldehyde	0.000000	0.000239			J
13.04	12.97	13.11	102730	460690	Methoxychlor	0.250000	0.222992	-10.8	25.0	
13.34			1600							
13.67			580							
13.81	13.74	13.88	765	979550	Endrin ketone	0.000000	0.000781			J
16.67	16.57	16.77	24199	1191025	Decachlorobiphenyl	0.020000	0.020318	1.6	25.0	
17.30			382							

Data File: /chem/tracegc82.i/m051005.b/005mAR166094.d
Date : 05-OCT-2005 16:48
Client ID: AR166094
Sample Info: AR166094
Volume Injected (uL): 1.0
Column phase: olpest

Instrument: tracegc82.i

Operator: 2512
Column diameter: 0.53



CompuChem Environmental Corporation

Lab Smp Id : AR166094 Client Smp Id : AR166094
Sample Type : INITIAL CAL: Level 2 Sublist : AR1660
Inj Date : 05-OCT-2005 16:48 Inst ID : TRACEGC82
Operator : 2512
Method : /chem/tracegc82.i/m051005.b/2ulOLM04_clpestv6.m
Misc. Info : None

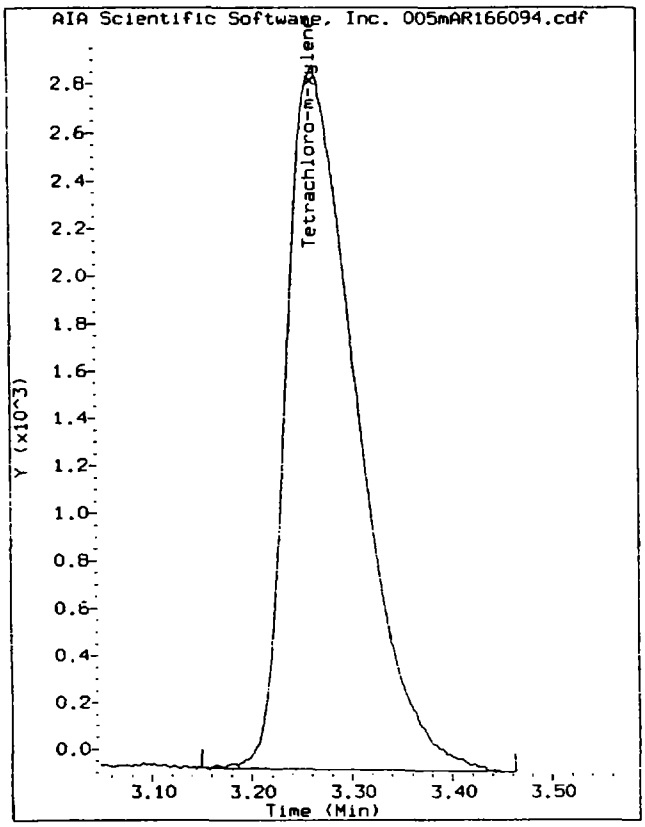
RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
0.15			3170					
0.72			18414					
0.84			1595					
1.15			858					
1.59			1143					
1.75			120					
2.15			1573					
2.37			289					
3.26	3.21	3.31	14459	719050	Tetrachloro-m-xylene	0.020000		M
3.68			500					
3.93			159					
4.02	3.95	4.09	1339	13390	Aroclor-1016 Peak 1	0.100000	13390	M
4.78	4.71	4.85	1702	17010	Aroclor-1016 Peak 2	0.100000	17010	M
5.04			530					
5.21			2113					
5.34			263					
5.48			168					
5.66			755					
5.81	5.74	5.88	5590	55900	Aroclor-1016 Peak 3	0.100000	55900	
6.12	6.05	6.19	2374	23740	Aroclor-1016 Peak 4	0.100000	23740	
6.25			1674					
6.60			2989					
7.08	7.01	7.15	1846	18460	Aroclor-1016 Peak 5	0.100000	18460	
7.28			2052					
7.62			340					
7.88			240					
8.00			1186					
8.11			684					
8.54			383					
8.66			1896					
9.27			893					
9.61			958					
9.73			3360					
9.85			749					
10.08			4898					
10.31			824					
10.66			1359					
10.79	10.72	10.86	12666	126650	Aroclor-1260 Peak 1	0.100000	126650	M
11.09			1723					
11.17			943					
11.33			2279					
11.47			12251					

CompuChem Environmental Corporation

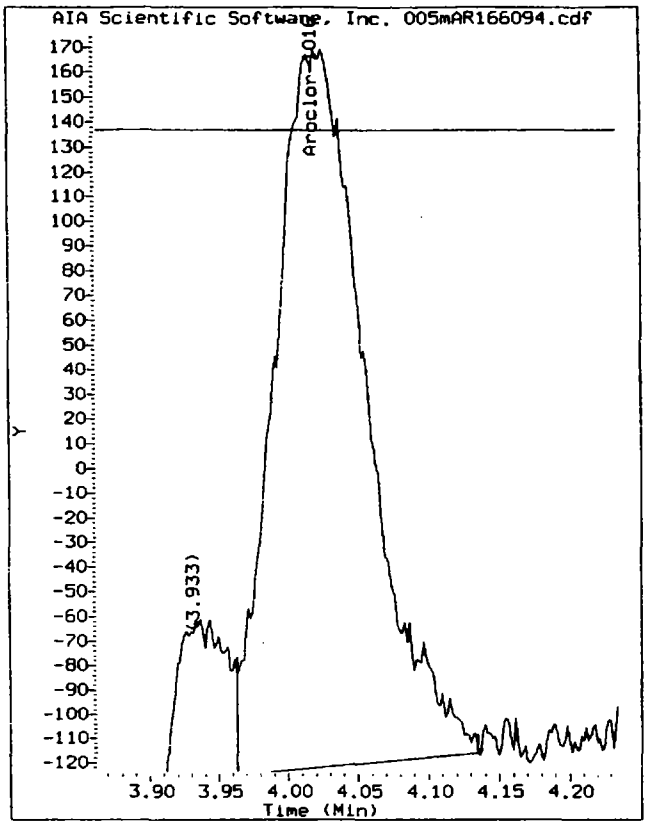
Lab Smp Id : AR166094 Client Smp Id : AR166094
Sample Type : INITIAL CAL: Level 2 Sublist : AR1660
Inj Date : 05-OCT-2005 16:48 Inst ID :
Operator : 2512
Method : /chem/tracegc82.i/m051005.b/2ulOLM04_clpestv6.m
Misc. Info : None

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
11.69		524					
11.78		7310					
11.89		3803					
12.09		728					
12.38	12.31 12.45	5973	59730	Aroclor-1260 Peak 2	0.100000	59730	
12.47		2918					
12.59		1813					
12.81		832					
13.03		664					
13.18	13.11 13.25	13647	136470	Aroclor-1260 Peak 3	0.100000	136470	
13.29		831					
13.86	13.79 13.93	7297	72960	Aroclor-1260 Peak 4	0.100000	72960	
13.99		3039					
14.09		3522					
14.56		456					
14.78		1846					
15.47	15.40 15.54	2685	26850	Aroclor-1260 Peak 5	0.100000	26850	
15.60		295					
16.20		1094					
16.67	16.57 16.77	25089	1191025	Decachlorobiphenyl	0.040000		
17.33		1259					

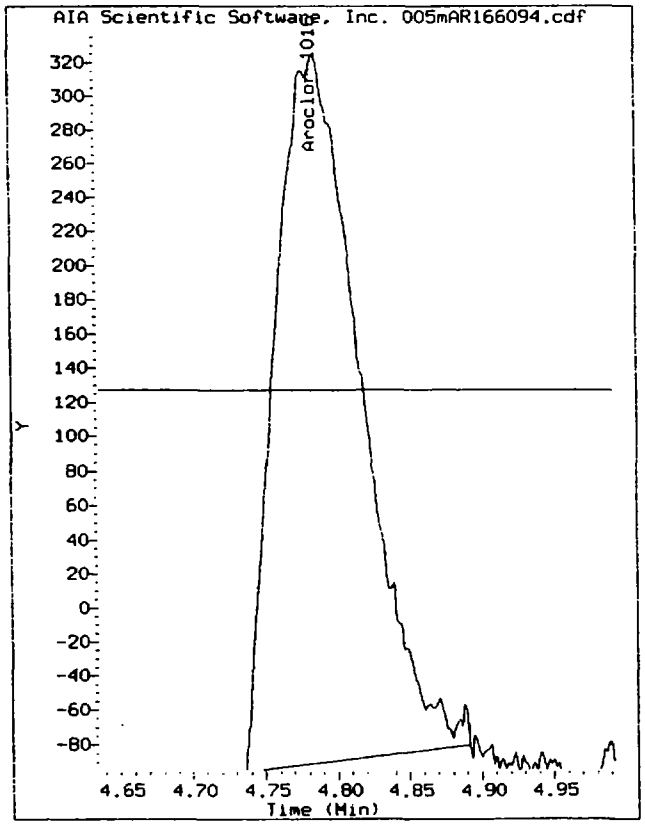
Manually Integrated Peaks



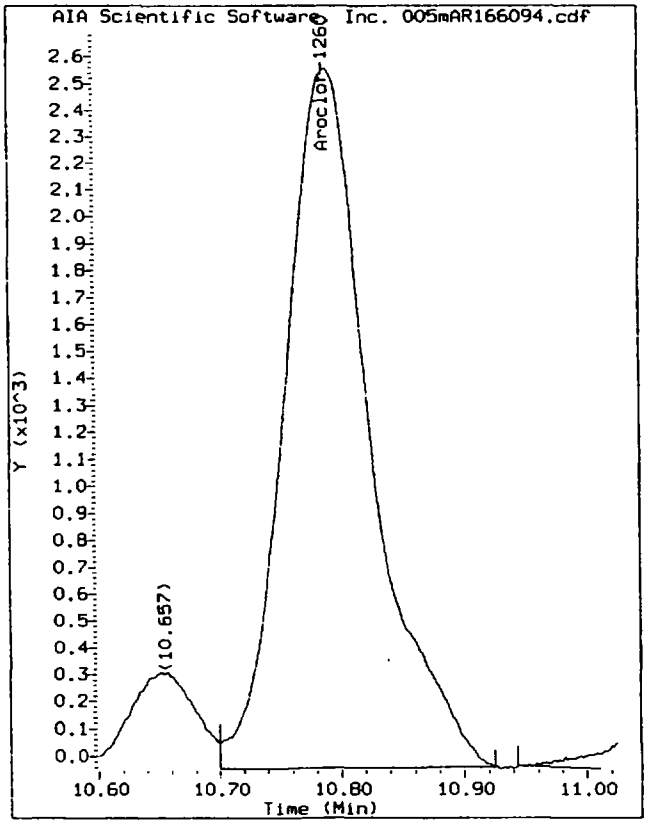
Start: 3.15 Stop: 3.46



Start: 3.96 Stop: 4.13

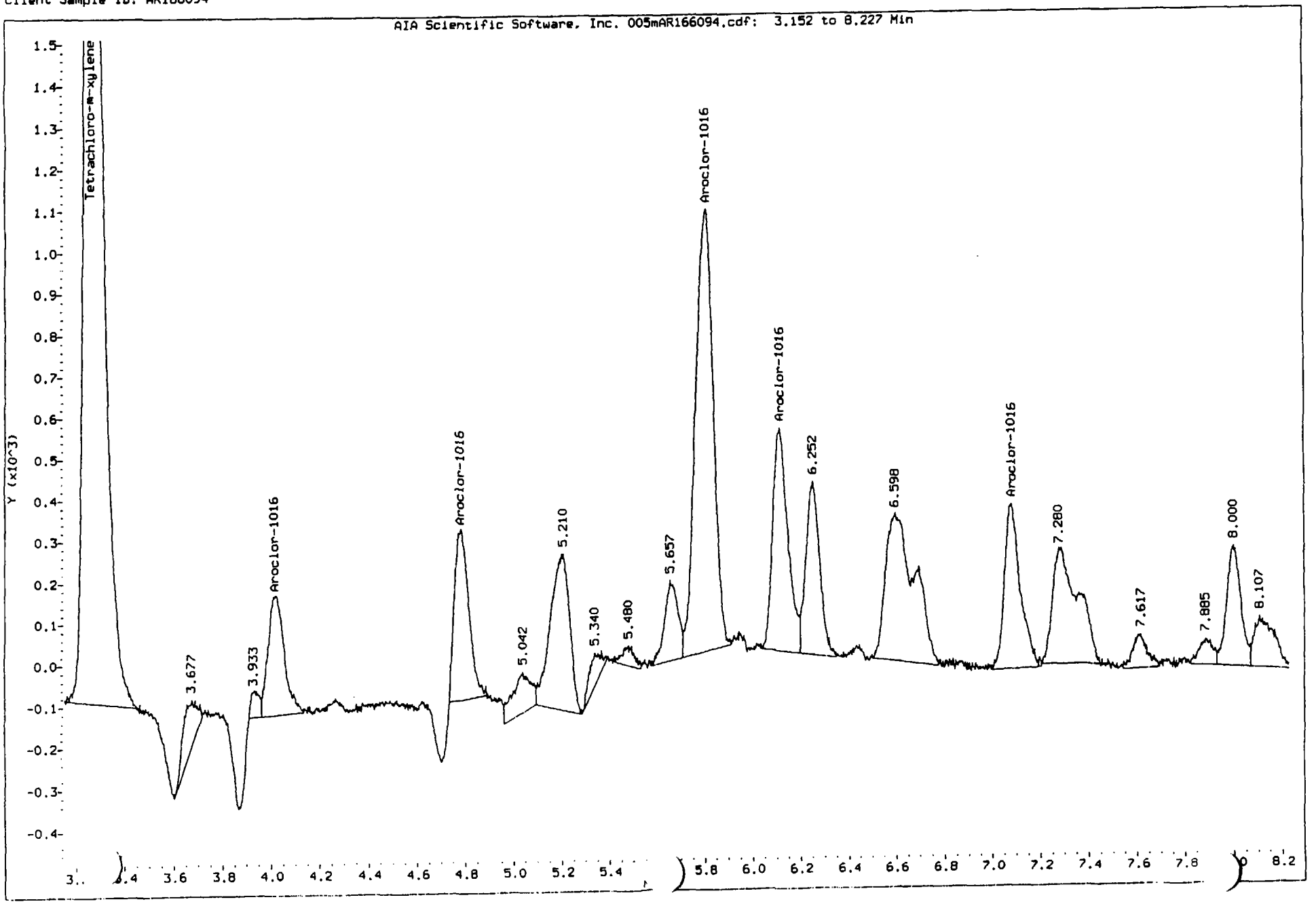


Start: 4.74 Stop: 4.89

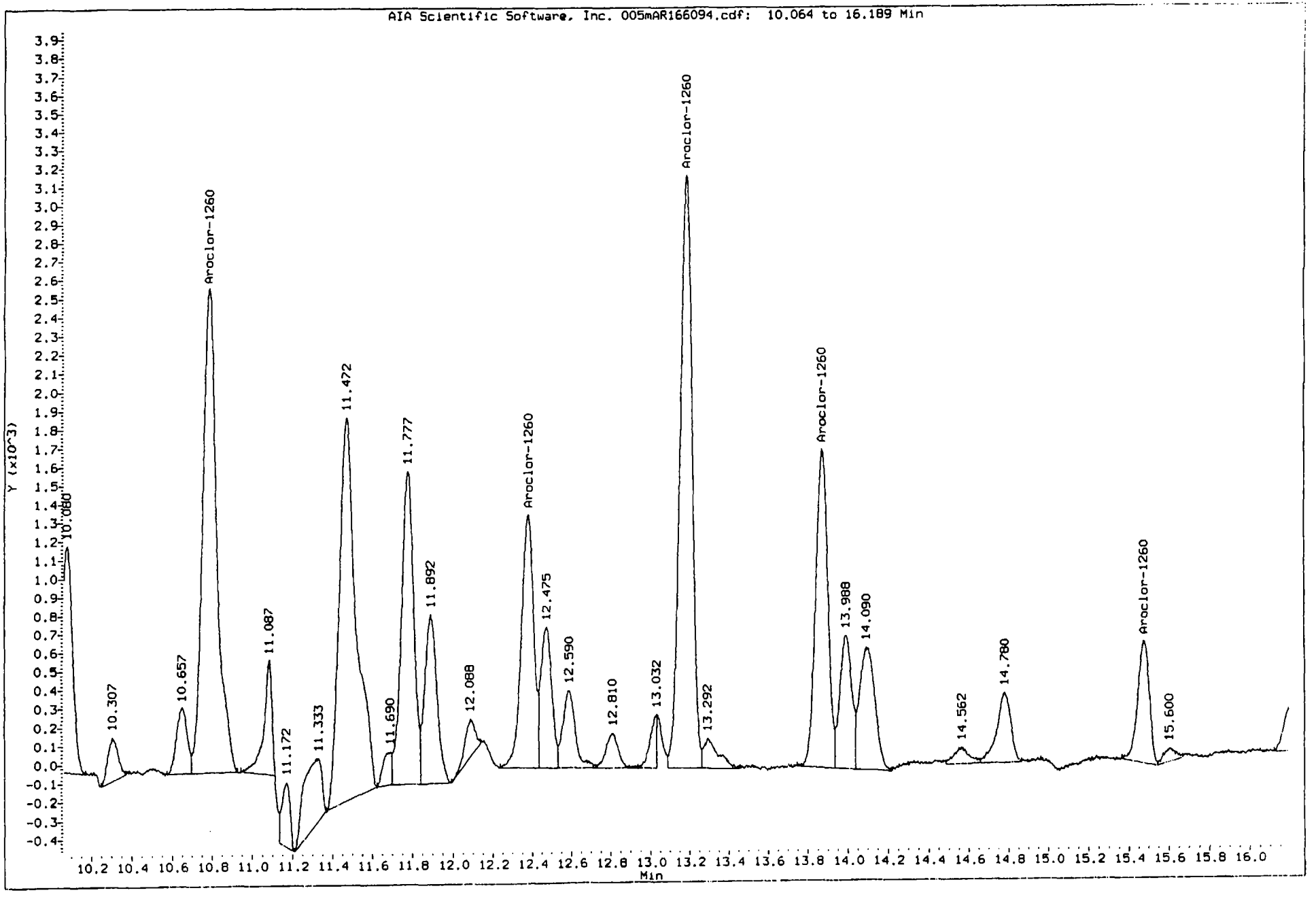


Start: 10.70 Stop: 10.93

Data File: /chem/tracegc82.i/m051005.b/005mAR166094.d/005mAR166094.cdf
Injection Date: 05-OCT-2005 16:48
Instrument: tracegc82.i
Client Sample ID: AR166094



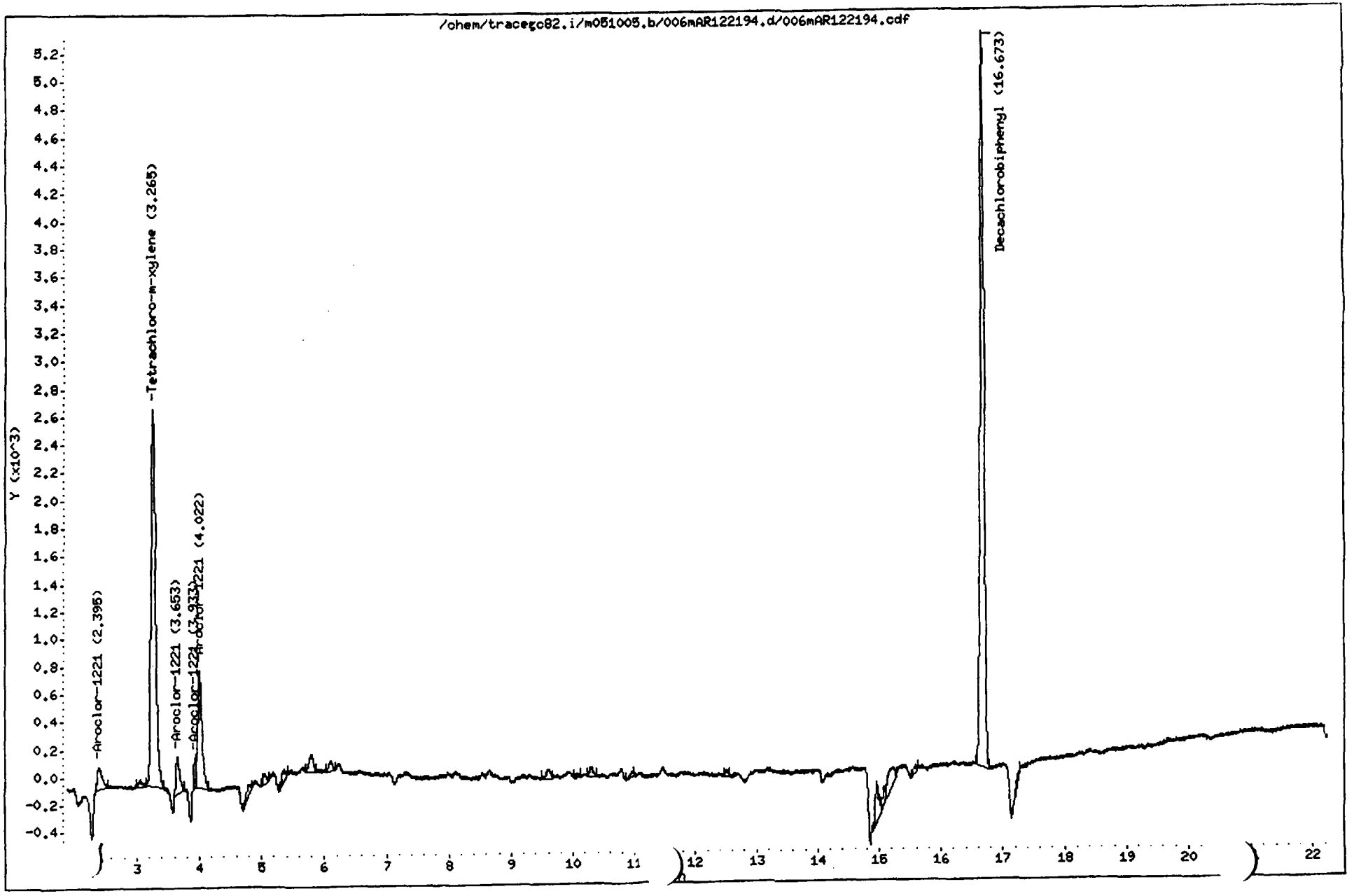
Data File: /chem/tracegc82.i/m051005.b/005mAR166094.d/005mAR166094.cdf
Injection Date: 05-OCT-2005 16:48
Instrument: tracegc82.i
Client Sample ID: AR166094



Data File: /chem/tracego82.i/m051005.b/006mAR122194.d
Date : 05-OCT-2005 17:14
Client ID: AR122194
Sample Info: AR122194
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracego82.i

Operator: 2512
Column diameter: 0.53

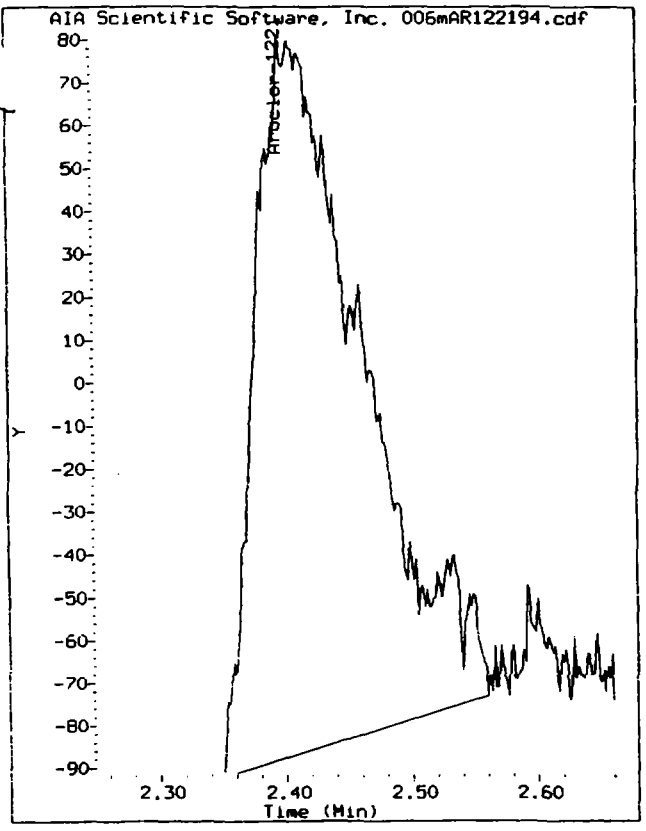


CompuChem Environmental Corporation

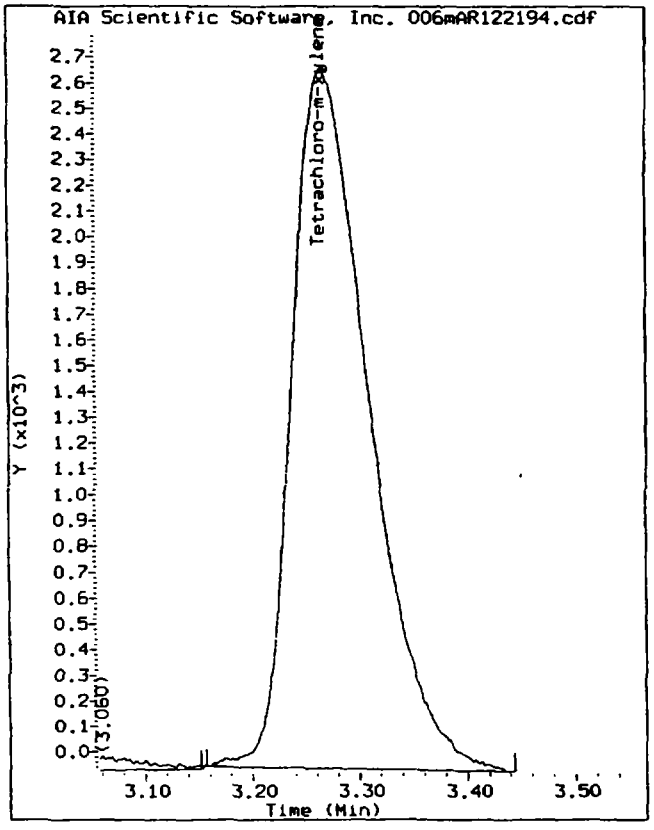
Lab Smp Id : AR122194 Client Smp Id : AR122194
Sample Type : INITIAL CAL: Level 2 Sublist : AR1221
Inj Date : 05-OCT-2005 17:14 Inst ID : TRACEGC82
Operator : 2512
Method : /chem/tracegc82.i/m051005.b/2ulOLM04_clpestv6.m
Misc. Info : None

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
0.13			666					
0.72			12353					
0.86			1358					
1.15			791					
1.60			1086					
2.40	2.33	2.47	996	4975	Aroclor-1221 Peak 1	0.200000	4975.000	M
3.06			245					
3.26	3.21	3.31	13676	719050	Tetrachloro-m-xylene	0.020000		M
3.65	3.58	3.72	1145	5725	Aroclor-1221 Peak 2	0.200000	5725.000	M
3.93	3.86	4.00	534	2670	Aroclor-1221 Peak 3	0.200000	2670.000	M
4.02	3.95	4.09	4045	20220	Aroclor-1221 Peak 4	0.200000	20220	M
4.82			331					
5.05			314					
5.36			472					
5.81			641					
6.12			317					
9.61			323					
10.08			120					
10.30			311					
10.93			184					
12.52			131					
14.96			1135					
15.08			376					
15.23			1181					
15.59			222					
16.67	16.57	16.77	23637	1191025	Decachlorobiphenyl	0.040000		
17.27			412					

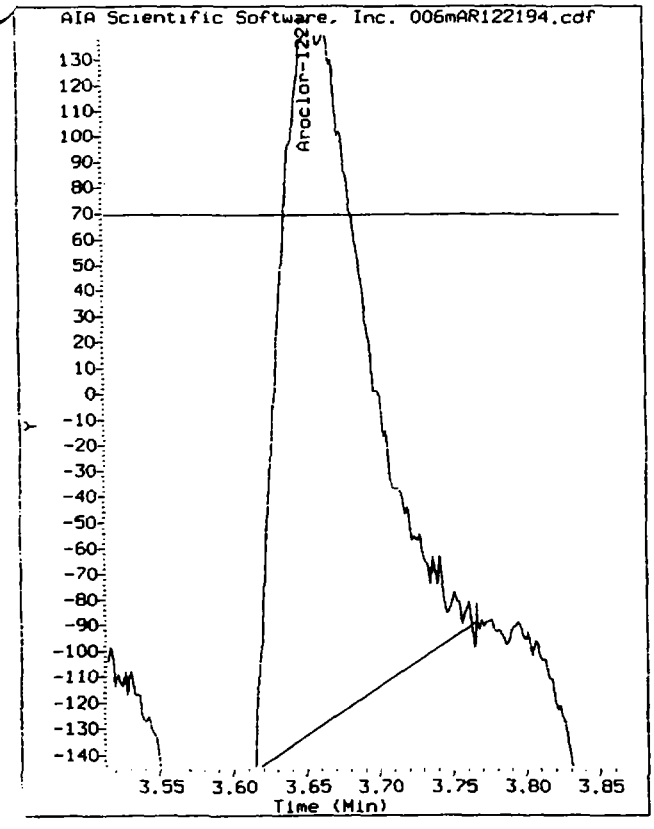
Manually Integrated Peaks



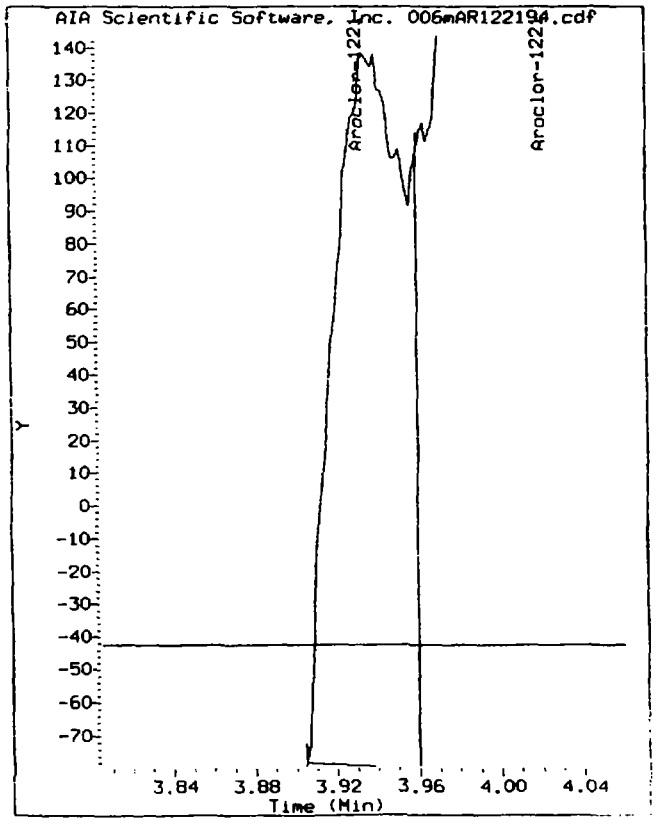
Start: 2.35 Stop: 2.56



Start: 3.16 Stop: 3.44

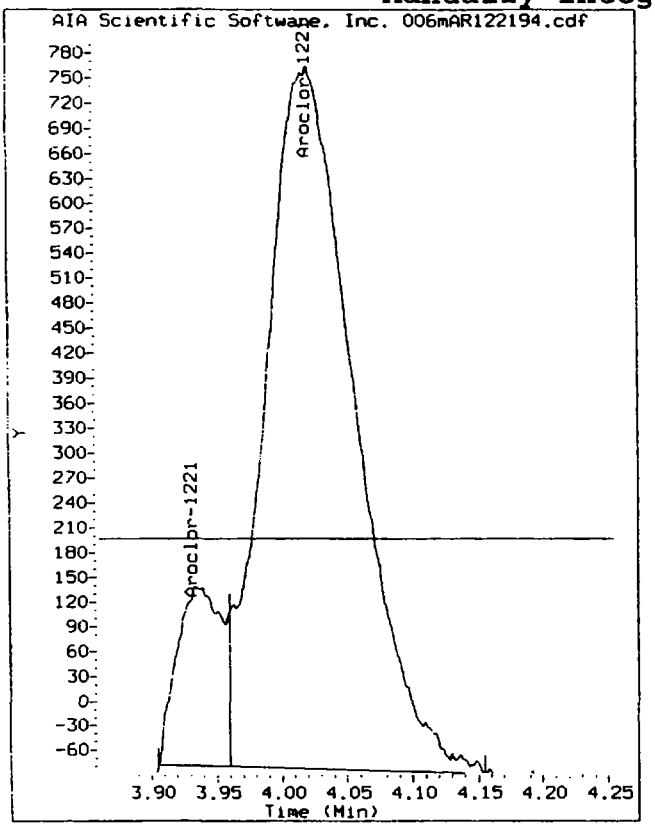


Start: 3.62 Stop: 3.77



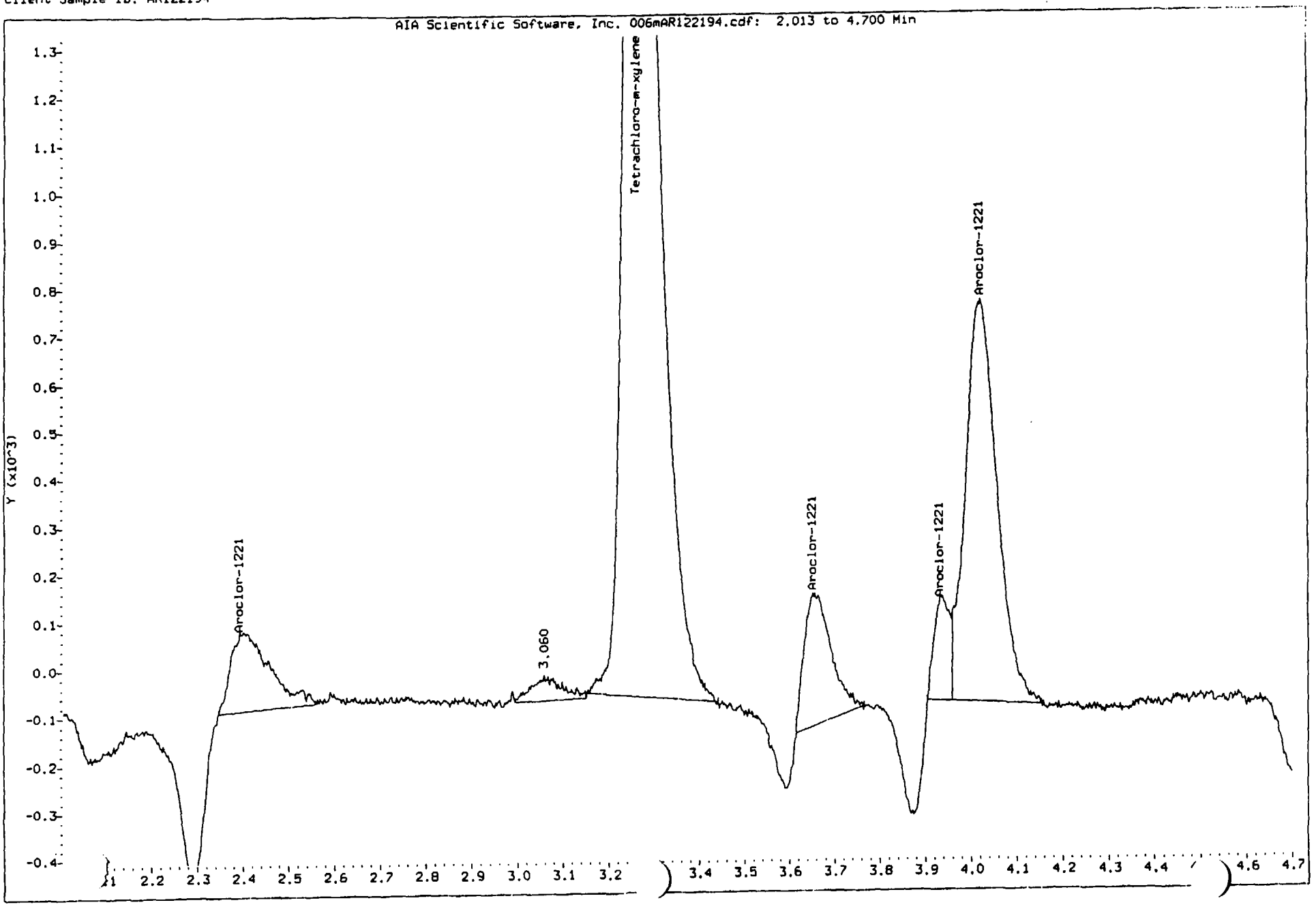
Start: 3.90 Stop: 3.96

Manually Integrated Peaks



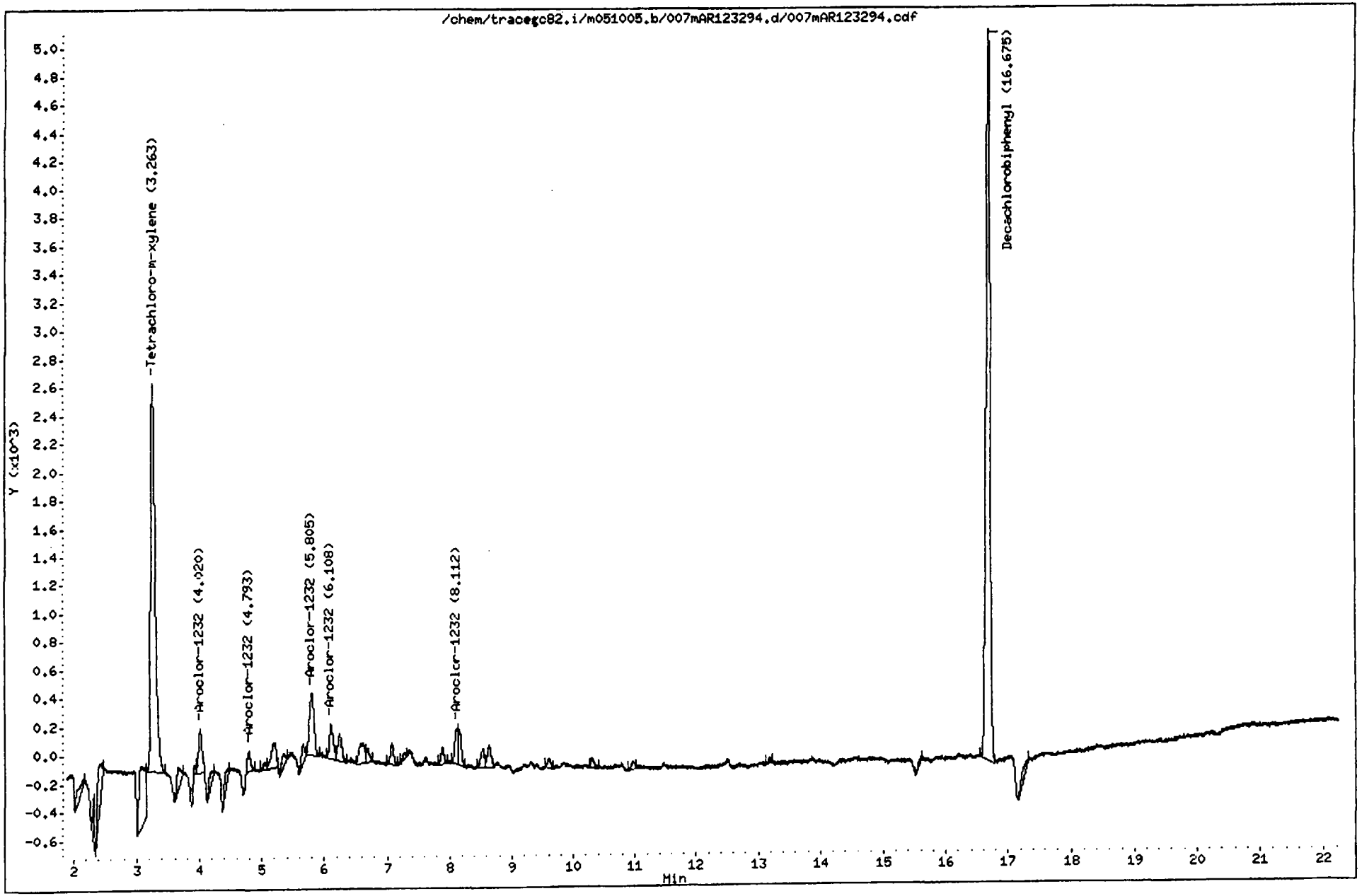
Start: 3.96 Stop: 4.16

Data File: /chem/tracegc82.i/m051005.b/006mAR122194.d/006mAR122194.cdf
Injection Date: 05-OCT-2005 17:14
Instrument: tracegc82.i
Client Sample ID: AR122194



Data File: /chem/tracegc82.i/m051005.b/007mAR123294.d
Date : 05-OCT-2005 17:39
Client ID: AR123294
Sample Info: AR123294
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc82.i
Operator: 2612
Column diameter: 0.53

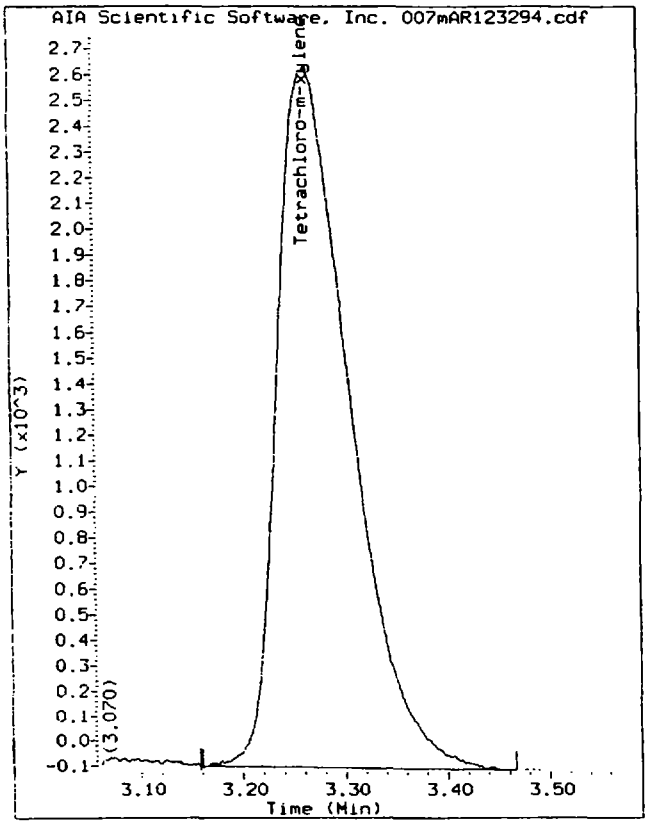


CompuChem Environmental Corporation

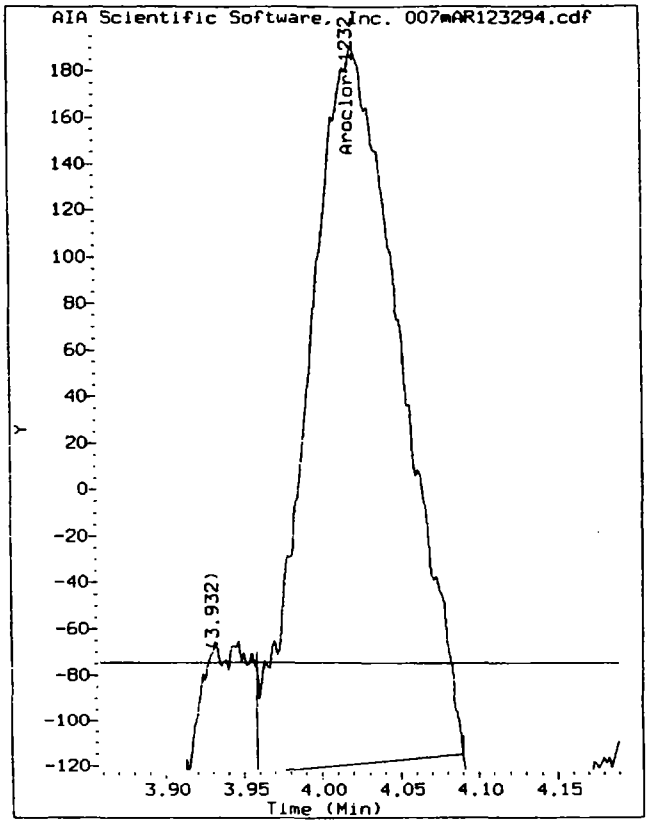
Lab Smp Id : AR123294 Client Smp Id : AR123294
Sample Type : INITIAL CAL: Level 2 Sublist : AR1232
Inj Date : 05-OCT-2005 17:39 Inst ID : TRACEGC82
Operator : 2512
Method : /chem/tracegc82.i/m051005.b/2ulOLM04_clpestv6.m
Misc. Info : None

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
0.14			7781					
0.40			2850					
0.72			23604					
0.87			8340					
1.15			718					
1.58			684					
1.85			134					
2.17			523					
2.33			630					
2.42			1699					
3.07			2914					
3.26	3.21	3.31	13541	719050	Tetrachloro-m-xylene	0.020000		M
3.67			708					
3.93			123					
4.02	3.95	4.09	1281	12810	Aroclor-1232 Peak 1	0.100000	12810	M
4.20			407					
4.45			557					
4.79	4.72	4.86	480	4790	Aroclor-1232 Peak 2	0.100000	4790.000	M
5.04			147					
5.20			970					
5.35			356					
5.55			444					
	5.73	5.87	2172	21710	Aroclor-1232 Peak 3	0.100000	21710	
	6.04	6.18	1057	10560	Aroclor-1232 Peak 4	0.100000	10560	
6.25			833					
6.58			849					
6.70			328					
7.08			589					
7.27			173					
7.88			410					
8.11	8.04	8.18	794	7930	Aroclor-1232 Peak 5	0.100000	7930.000	M
8.16			846					
8.53			536					
8.64			617					
9.61			225					
10.30			293					
10.97			237					
13.18			118					
15.59			204					
16.68	16.57	16.77	23550	1191025	Decachlorobiphenyl	0.040000		
17.31			547					

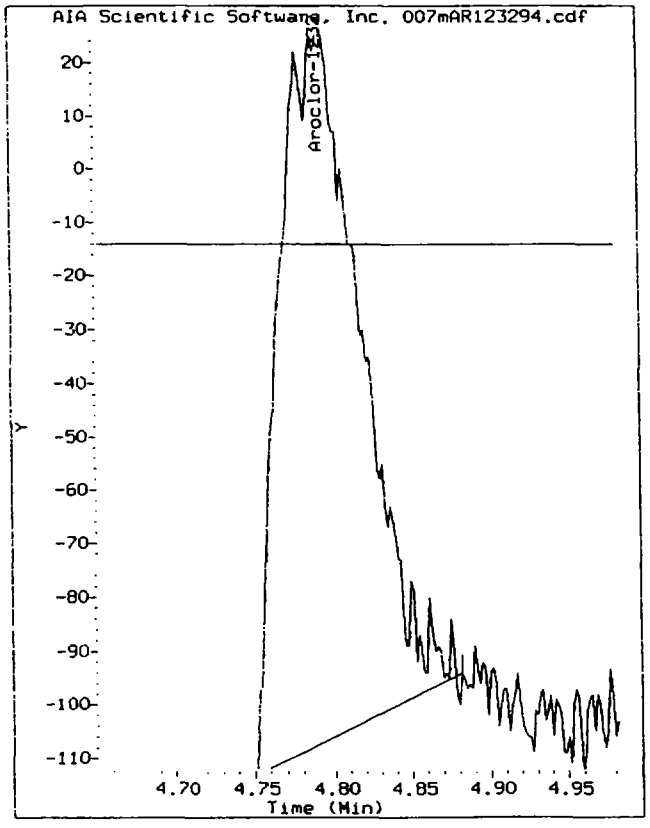
Manually Integrated Peaks



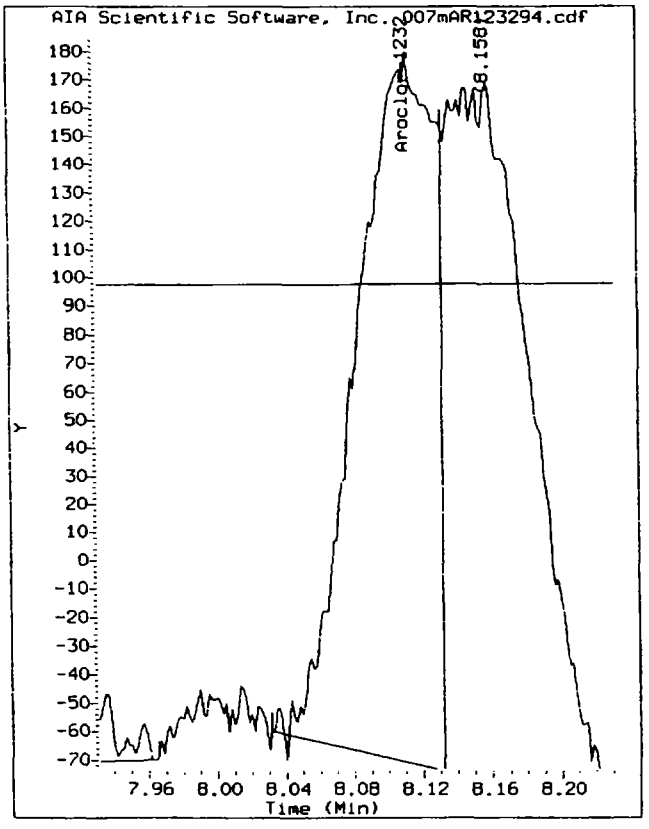
Start: 3.16 Stop: 3.47



Start: 3.96 Stop: 4.09

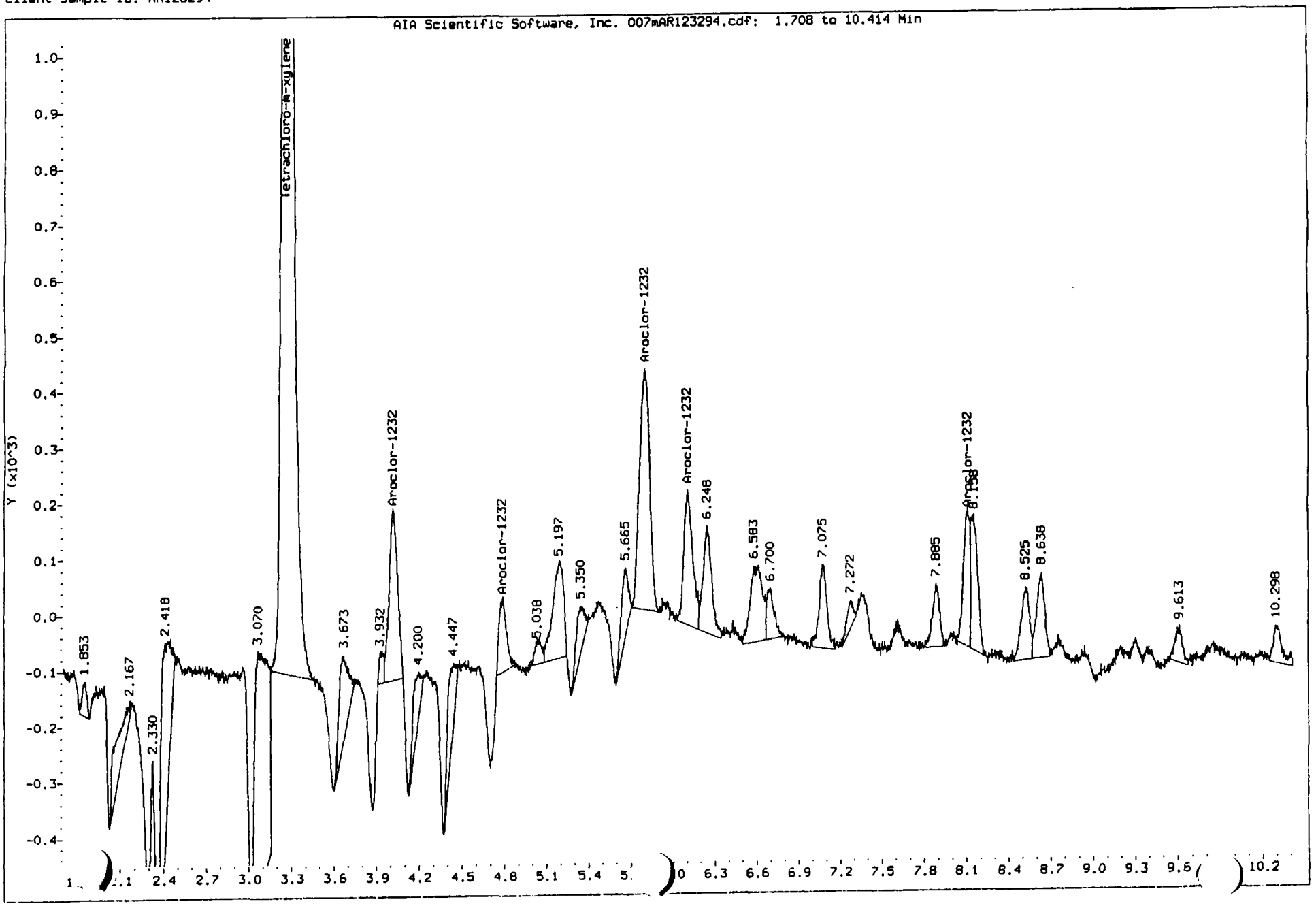


Start: 4.75 Stop: 4.88



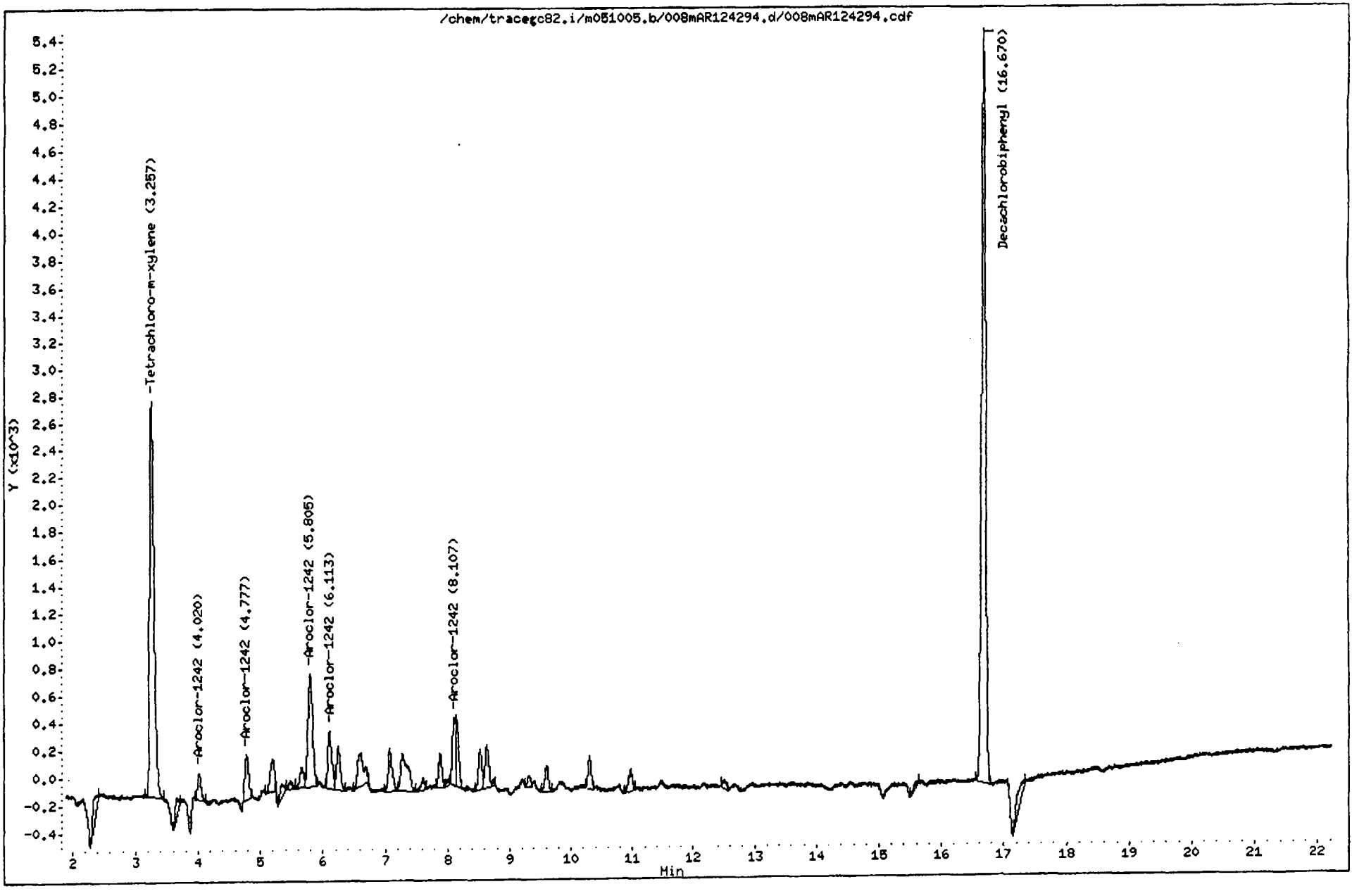
Start: 8.03 Stop: 8.13

Data File: /chem/tracegc82.i/m051005.b/007mAR123294.d/007mAR123294.cdf
Injection Date: 05-OCT-2005 17:39
Instrument: tracegc82.i
Client Sample ID: AR123294



Data File: /chem/tracegc82.i/m051005.b/008mAR124294.d
Date : 05-OCT-2005 18:05
Client ID: AR124294
Sample Info: AR124294
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc82.i
Operator: 2512
Column diameter: 0.53

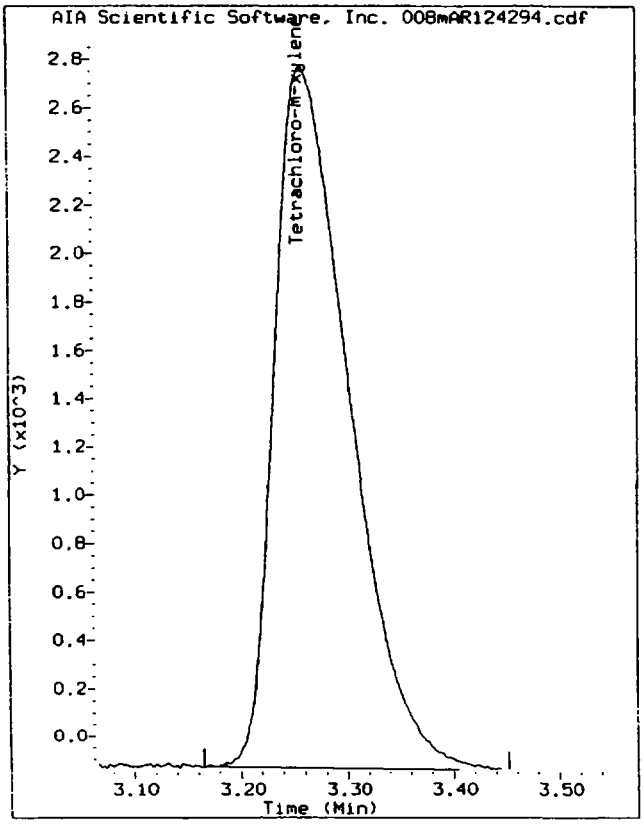


CompuChem Environmental Corporation

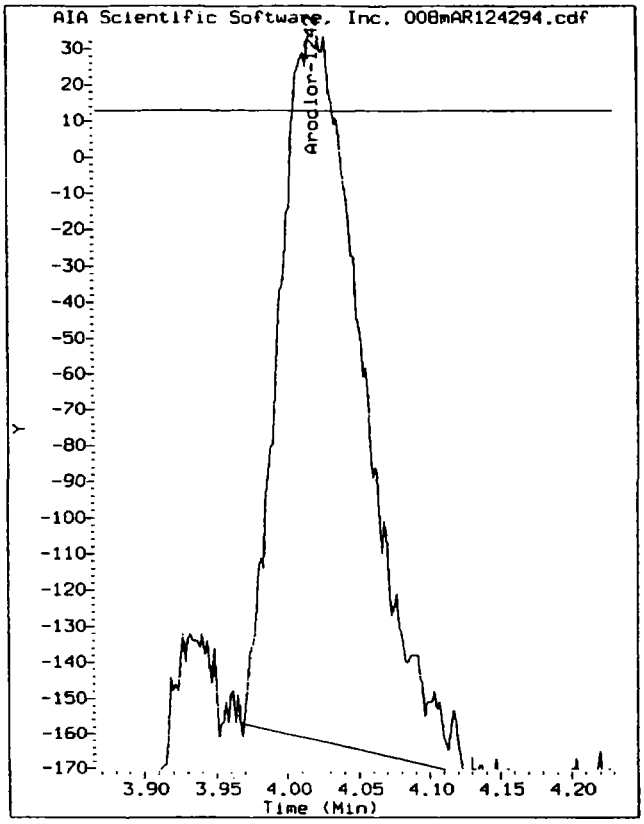
Lab Smp Id : AR124294 Client Smp Id : AR124294
Sample Type : INITIAL CAL: Level 2 Sublist : AR1242
Inj Date : 05-OCT-2005 18:05 Inst ID : TRACEGC82
Operator : 2512
Method : /chem/tracegc82.i/m051005.b/2ulOLM04_clpestv6.m
Misc. Info : None

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
0.14			2871					
0.72			10495					
0.84			1346					
1.14			1061					
1.57			1006					
2.41			945					
3.26	3.21	3.31	14184	719050	Tetrachloro-m-xylene	0.020000		M
3.67			449					
4.02	3.95	4.09	816	8150	Aroclor-1242 Peak 1	0.100000	8150.000	M
4.78	4.71	4.85	1385	13840	Aroclor-1242 Peak 2	0.100000	13840	M
5.20			1079					
5.34			468					
5.48			311					
5.66			625					
5.80	5.73	5.87	4287	42870	Aroclor-1242 Peak 3	0.100000	42870	
6.11	6.04	6.18	1834	18330	Aroclor-1242 Peak 4	0.100000	18330	
6.25			1362					
6.61			1705					
7.08			1453					
7.28			2215					
7.61			381					
7.88			934					
			113					
	8.04	8.18	1624	16240	Aroclor-1242 Peak 5	0.100000	16240	M
			1712					
8.53			1172					
8.63			1408					
9.31			256					
9.61			725					
10.30			874					
10.96			706					
12.50			222					
15.59			204					
16.67	16.57	16.77	25227	1191025	Decachlorobiphenyl	0.040000		
17.33			941					

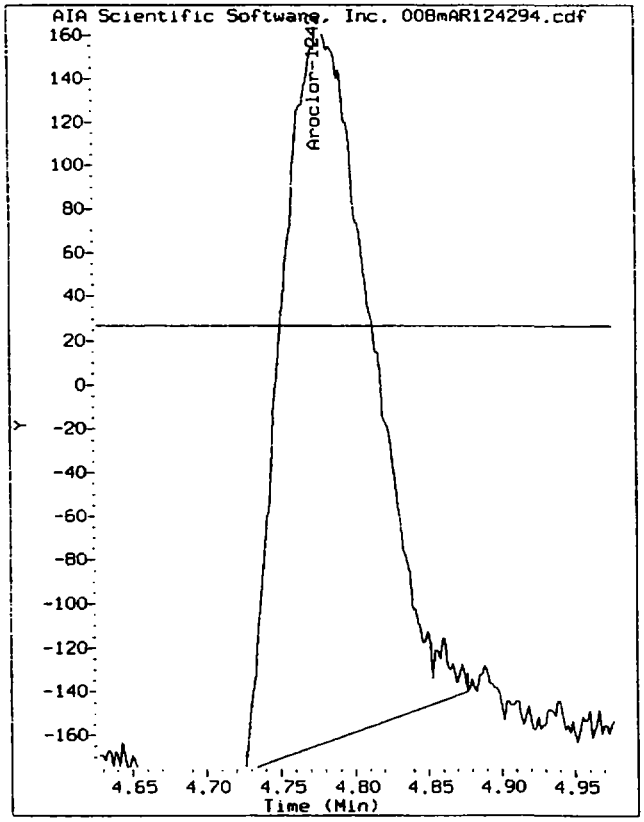
Manually Integrated Peaks



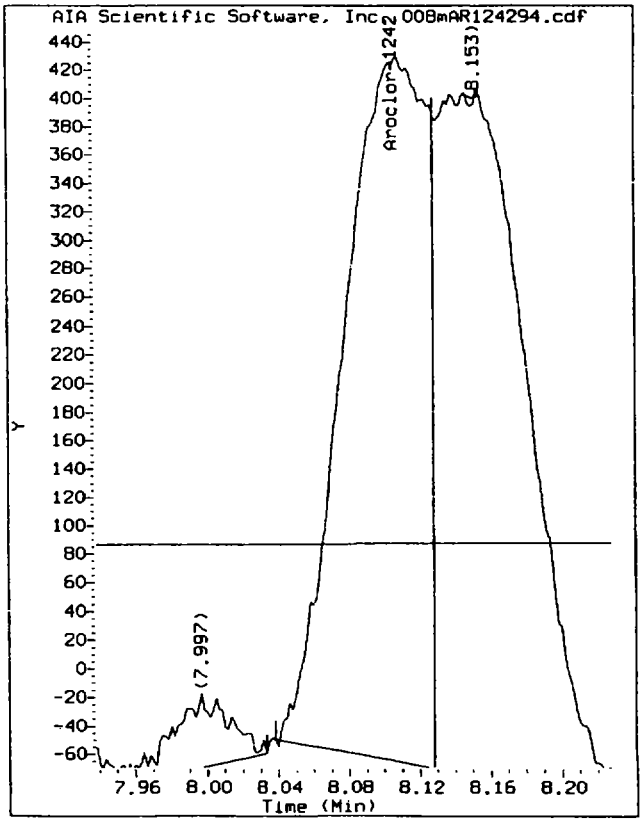
Start: 3.17 Stop: 3.45



Start: 3.97 Stop: 4.13

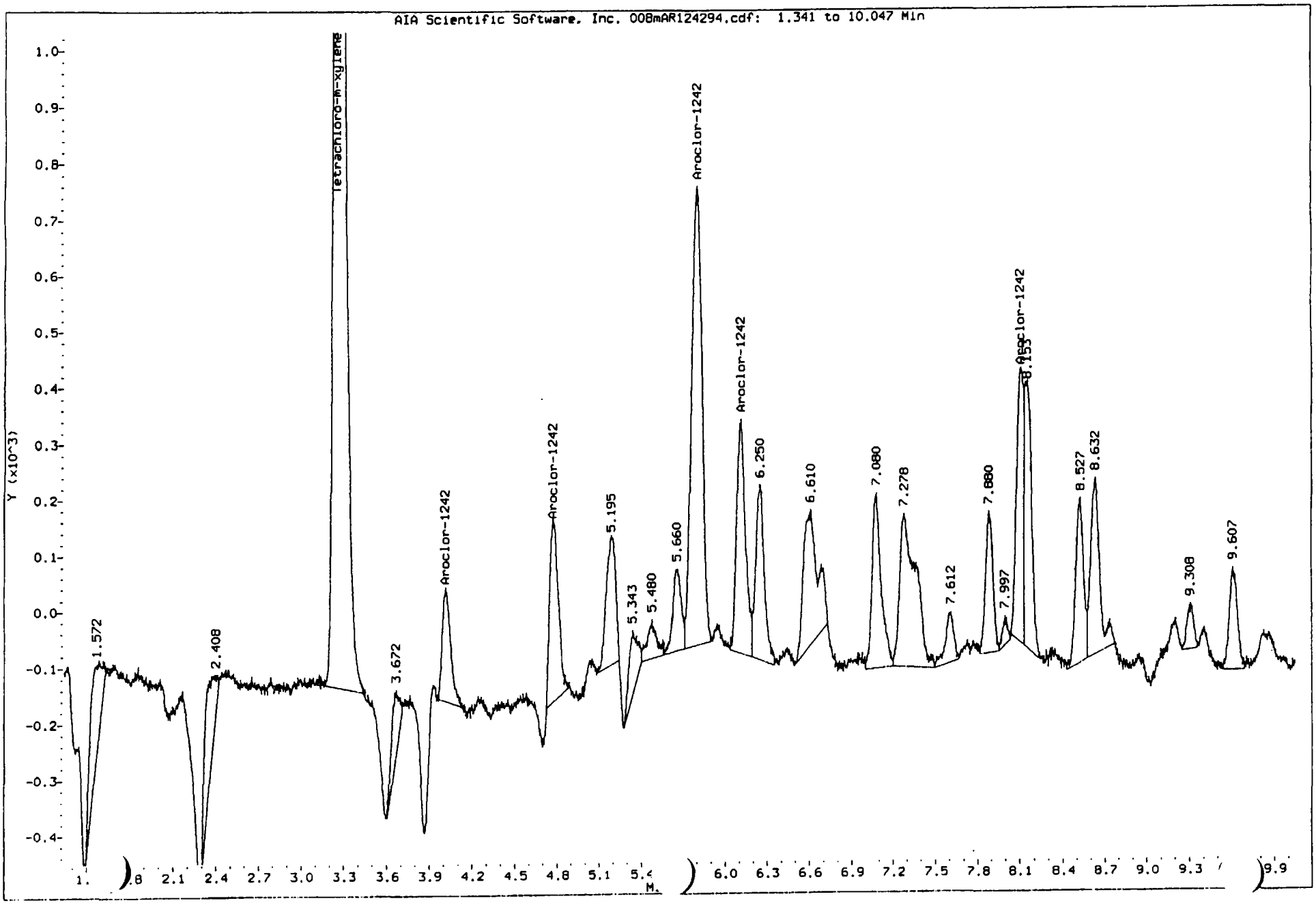


Start: 4.73 Stop: 4.88



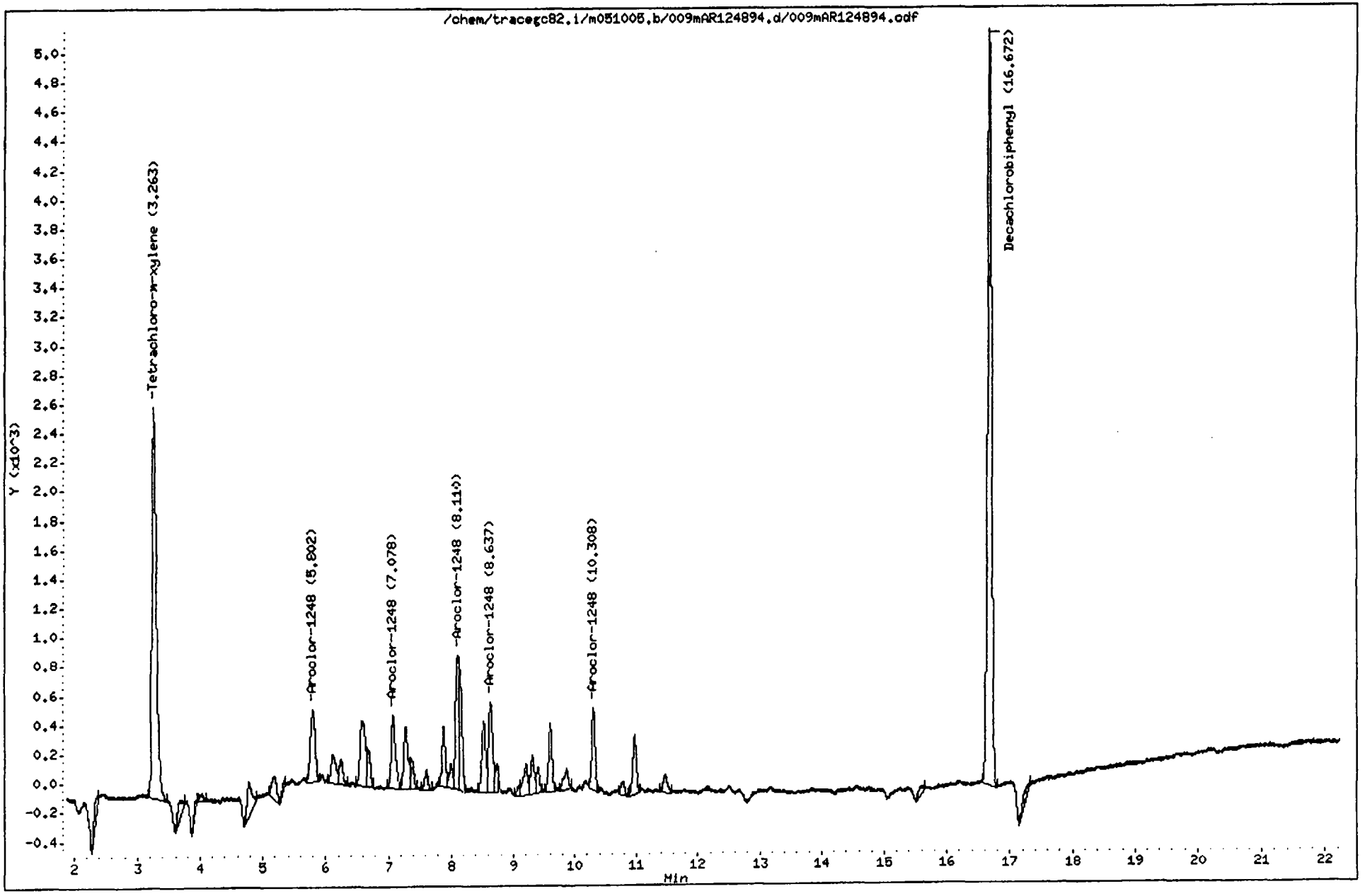
Start: 8.04 Stop: 8.13

Data File: /chem/tracegc82.i/m051005.b/008mAR124294.d/008mAR124294.cdf
Injection Date: 05-OCT-2005 18:05
Instrument: tracegc82.i
Client Sample ID: AR124294



Data File: /chem/tracegc82.i/m051005.b/009mAR124894.d
Date : 05-OCT-2005 18:30
Client ID: AR124894
Sample Info: AR124894
Volume Injected (uL): 1.0
Column phase: olpest

Instrument: tracegc82.i
Operator: 2512
Column diameter: 0.53

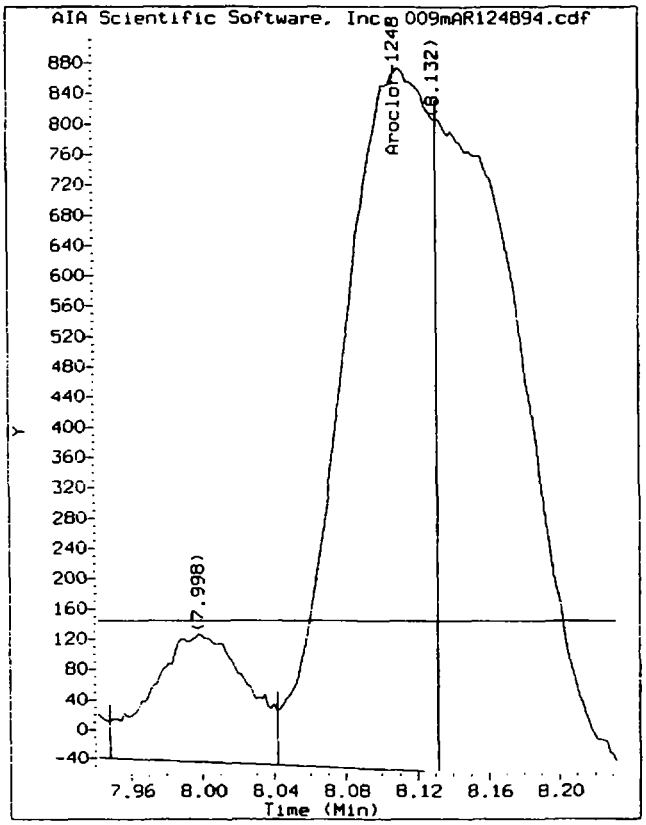


CompuChem Environmental Corporation

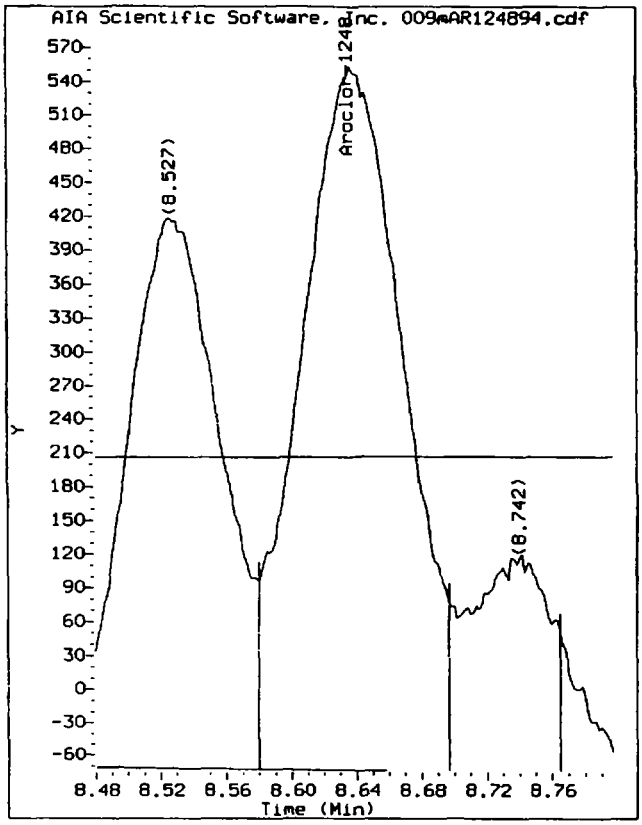
Lab Smp Id : AR124894 Client Smp Id : AR124894
Sample Type : INITIAL CAL: Level 2 Sublist : AR1248
Inj Date : 05-OCT-2005 18:30 Inst ID : TRACEGC82
Operator : 2512
Method : /chem/tracegc82.i/m051005.b/2ulOLM04_clpestv6.m
Misc. Info : None

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
0.14			3702					
0.72			22547					
1.15			963					
1.56			512					
2.38			608					
3.26	3.21	3.31	13618	719050	Tetrachloro-m-xylene	0.020000		
3.70			727					
3.94			232					
4.03			212					
4.79			1241					
5.19			915					
5.36			253					
5.80	5.73	5.87	2541	25400	Aroclor-1248 Peak 1	0.100000	25400	
6.12			1056					
6.25			737					
6.58			2627					
6.70			991					
7.08	7.01	7.15	2385	23840	Aroclor-1248 Peak 2	0.100000	23840	
7.28			1975					
7.38			765					
7.62			536					
7.98			1541					
			642					
	8.04	8.18	3210	32100	Aroclor-1248 Peak 3	0.100000	32100	M
8.13			2970					
8.53			2046					
8.64	8.57	8.71	2800	28000	Aroclor-1248 Peak 4	0.100000	28000	M
8.74			680					
9.09			186					
9.20			1125					
9.31			1113					
9.40			658					
9.61			1854					
9.87			739					
10.31	10.24	10.38	2150	21490	Aroclor-1248 Peak 5	0.100000	21490	
10.78			369					
10.96			1646					
11.47			634					
15.62			311					
16.67	16.57	16.77	23375	1191025	Decachlorobiphenyl	0.040000		
17.31			526					

Manually Integrated Peaks

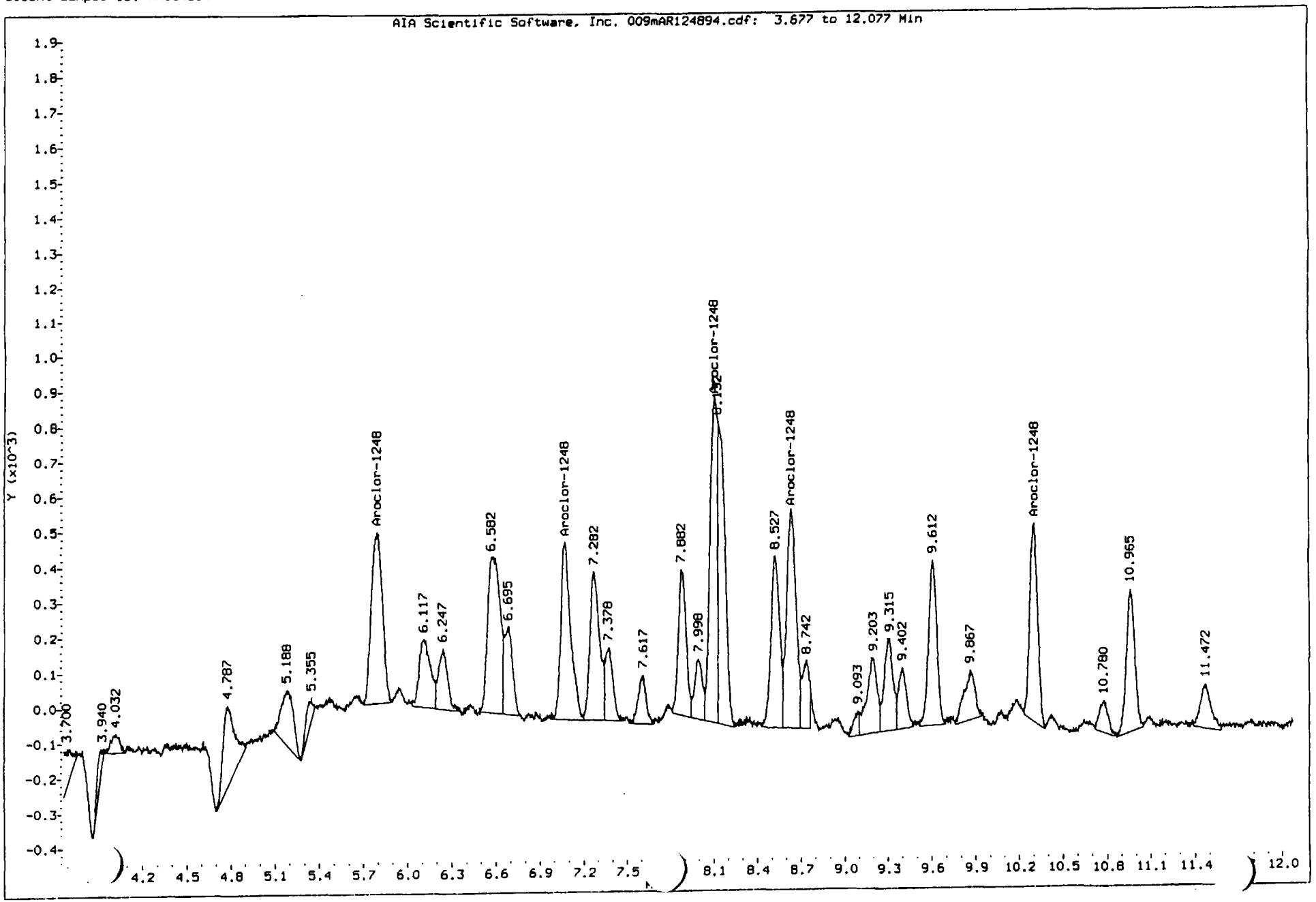


Start: 8.04 Stop: 8.13



Start: 8.58 Stop: 8.70

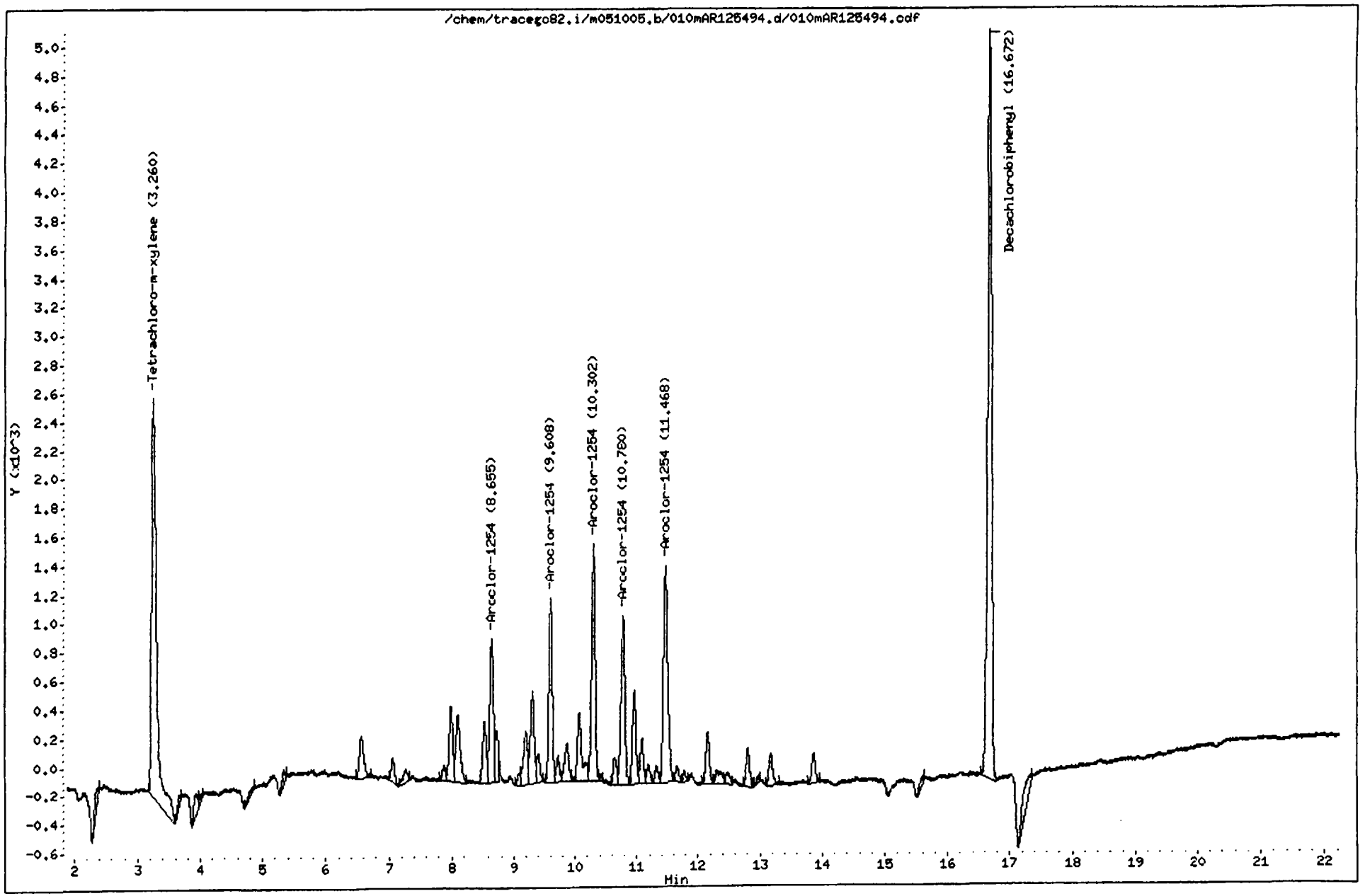
Data File: /chem/tracegc82.i/m051005.b/009mAR124894.d/009mAR124894.cdf
Injection Date: 05-OCT-2005 18:30
Instrument: tracegc82.i
Client Sample ID: AR124894



Data File: /chem/tracegc82.i/m051005.b/010mAR125494.d
Date : 05-OCT-2005 18:56
Client ID: AR125494
Sample Info: AR125494
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc82.i

Operator: 2512
Column diameter: 0.53



CompuChem Environmental Corporation

L Smp Id : AR125494 Client Smp Id : AR125494
Sample Type : INITIAL CAL: Level 2 Sublist : AR1254
Inj Date : 05-OCT-2005 18:56 Inst ID : TRACEGC82
Operator : 2512
Method : /chem/tracegc82.i/m051005.b/2ulOLM04_clpestv6.m
Misc. Info : None

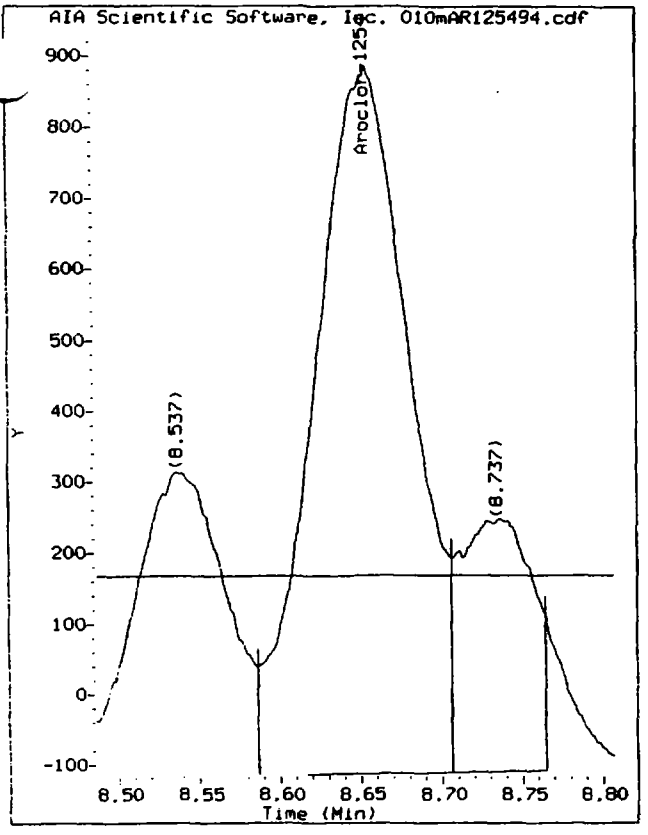
RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
0.14			2833					
0.46			184					
0.72			10682					
0.87			6511					
1.14			990					
1.59			1429					
2.38			560					
3.26	3.21	3.31	15622	719050	Tetrachloro-m-xylene	0.020000		
3.68			257					
3.94			671					
4.02			205					
4.84			272					
5.34			348					
6.58			1431					
7.07			642					
7.28			501					
7.89			367					
8.00			2101					
8.11			2300					
8.54			1757					
8.66	8.59	8.73	4196	41960	Aroclor-1254 Peak 1	0.100000	41960	M
8.74			1136					
			268					
			1803					
9.31			2740					
9.40			770					
9.61	9.54	9.68	5105	51040	Aroclor-1254 Peak 2	0.100000	51040	
9.73			669					
9.88			1308					
10.08			2570					
10.30	10.23	10.37	6531	65310	Aroclor-1254 Peak 3	0.100000	65310	M
10.43			115					
10.65			752					
10.78	10.71	10.85	5189	51880	Aroclor-1254 Peak 4	0.100000	51880	
10.96			2577					
11.09			1240					
11.19			466					
11.32			438					
11.47	11.40	11.54	7326	73260	Aroclor-1254 Peak 5	0.100000	73260	
11.67			432					
11.78			248					
12.16			1508					

CompuChem Environmental Corporation

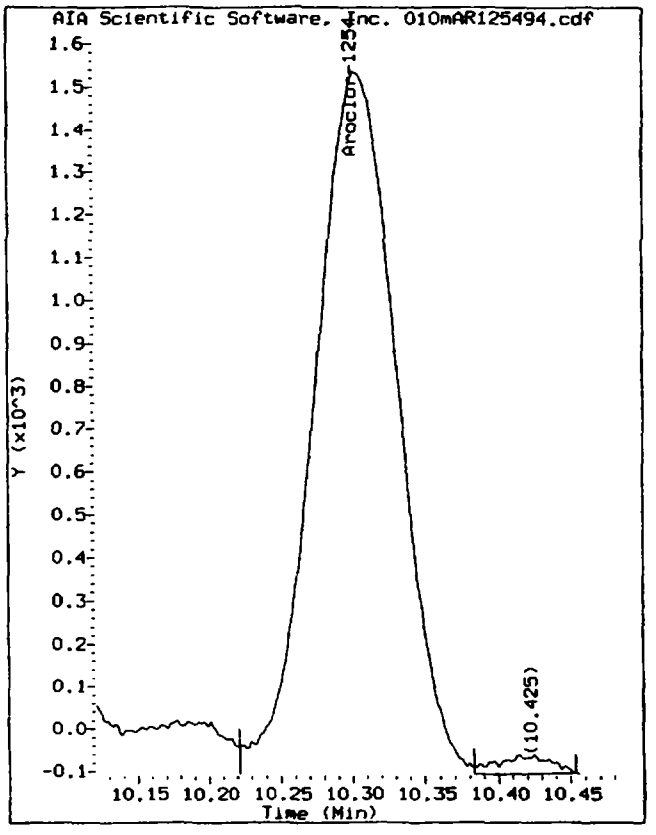
Lab Smp Id : AR125494 Client Smp Id : AR125494
Sample Type : INITIAL CAL: Level 2 Sublist : AR1254
Inj Date : 05-OCT-2005 18:56 Inst ID :
Operator : 2512
Method : /chem/tracegc82.i/m051005.b/2ulOLM04_clpestv6.m
Misc. Info : None

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
12.31		704					
12.47		382					
12.81		1040					
12.98		175					
13.18		976					
13.87		833					
15.61		248					
16.67	16.57 16.77	23626	1191025	Decachlorobiphenyl	0.040000		
17.36		1778					

Manually Integrated Peaks

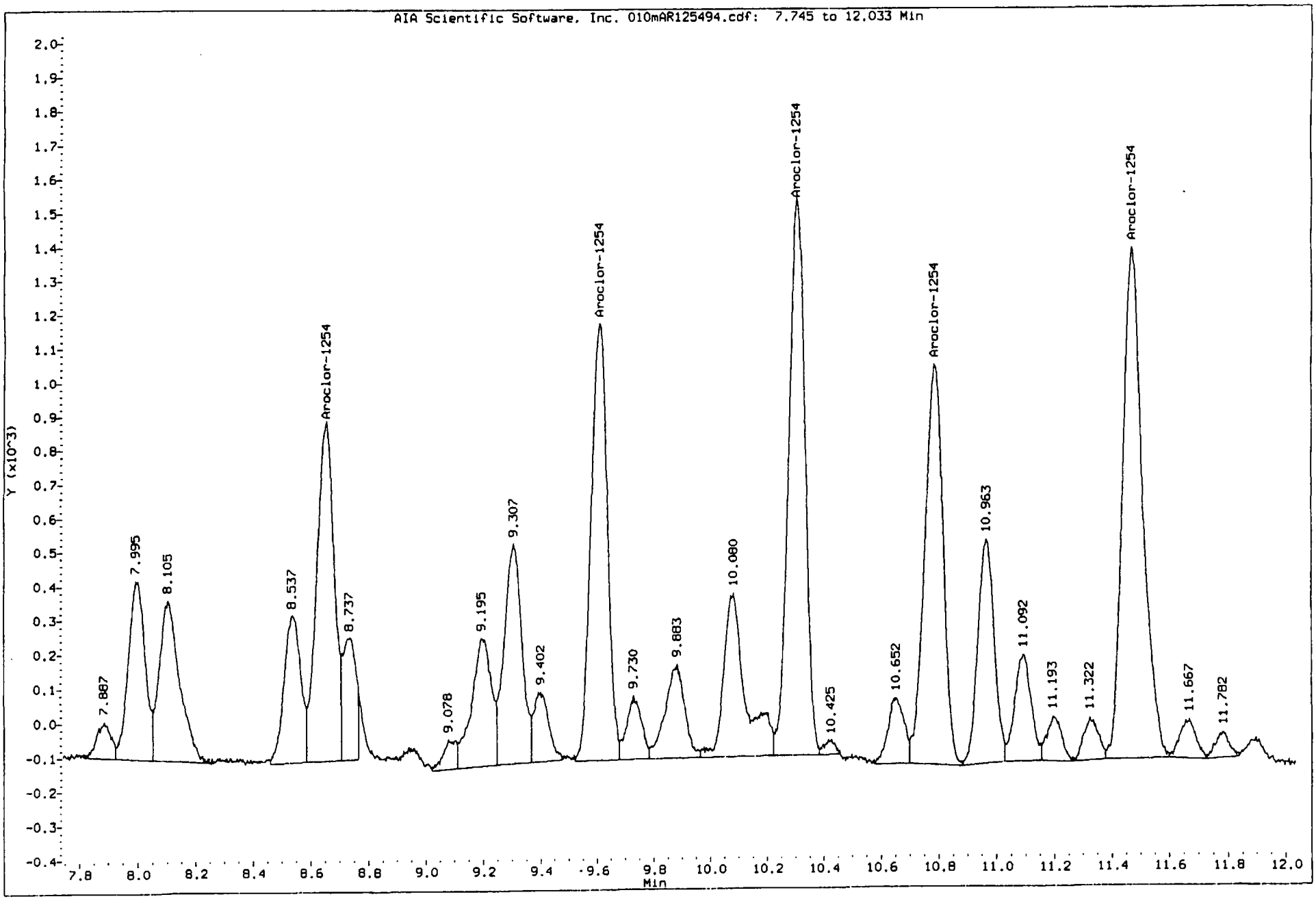


Start: 8.59 Stop: 8.71



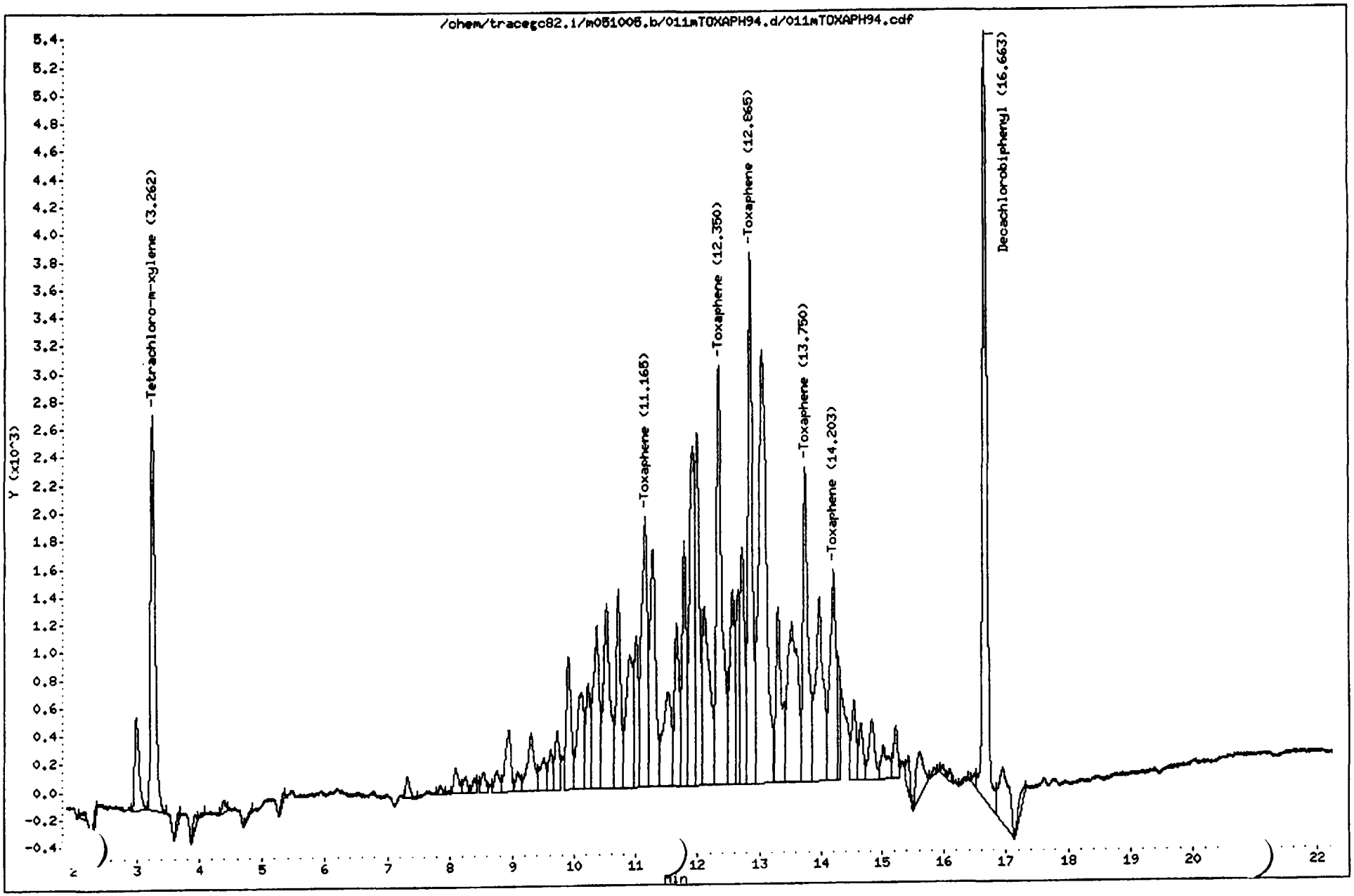
Start: 10.22 Stop: 10.38

Data File: /chem/tracegc82.i/m051005.b/010mAR125494.d/010mAR125494.cdf
Injection Date: 05-OCT-2005 18:56
Instrument: tracegc82.i
Client Sample ID: AR125494



Data File: /chem/tracegc82.i/m051005.b/011mTOXAPH94.d
Date : 05-OCT-2005 19:21
Client ID: TOXAPH94
Sample Info: TOXAPH94
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc82.i
Operator: 2512
Column diameter: 0.53



CompuChem Environmental Corporation

Lab Smp Id : TOXAPH94 Client Smp Id : TOXAPH94
Sample Type : INITIAL CAL: Level 2 Sublist : TOXAPH
Inj Date : 05-OCT-2005 19:21 Inst ID : TRACEGC82
Operator : 2512
Method : /chem/tracegc82.i/m051005.b/2ulOLM04_clpestv6.m
Misc. Info : None

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
0.14			3133					
0.72			32116					
0.86			5242					
1.14			926					
1.56			885					
2.14			202					
2.36			320					
3.00			3336					
3.26	3.21	3.31	14223	719050	Tetrachloro-m-xylene	0.020000		
3.67			251					
3.94			462					
4.04			121					
4.38			357					
4.82			147					
5.34			240					
7.33			738					
7.86			223					
8.10			947					
8.26			539					
8.40			439					
8.55			714					
8.76			908					
8.95			2781					
9.09			728					
9.30			3175					
9.51			1657					
9.62			1364					
9.73			2150					
9.92			5587					
10.12			5390					
10.23			3603					
10.38			8255					
10.54			10270					
10.73			7394					
10.90			7373					
11.01			5472					
11.16	11.09	11.23	13227	26452	Toxaphene Peak 1	0.500000	26452	
11.29			10725					
11.53			6587					
11.67			6271					
11.80			8544					
11.93			13703					

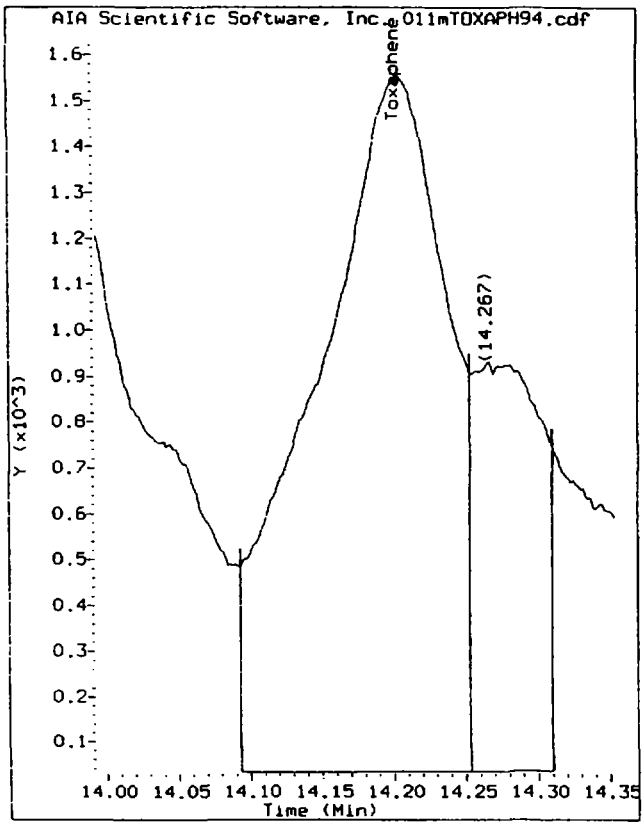
Cooks

CompuChem Environmental Corporation

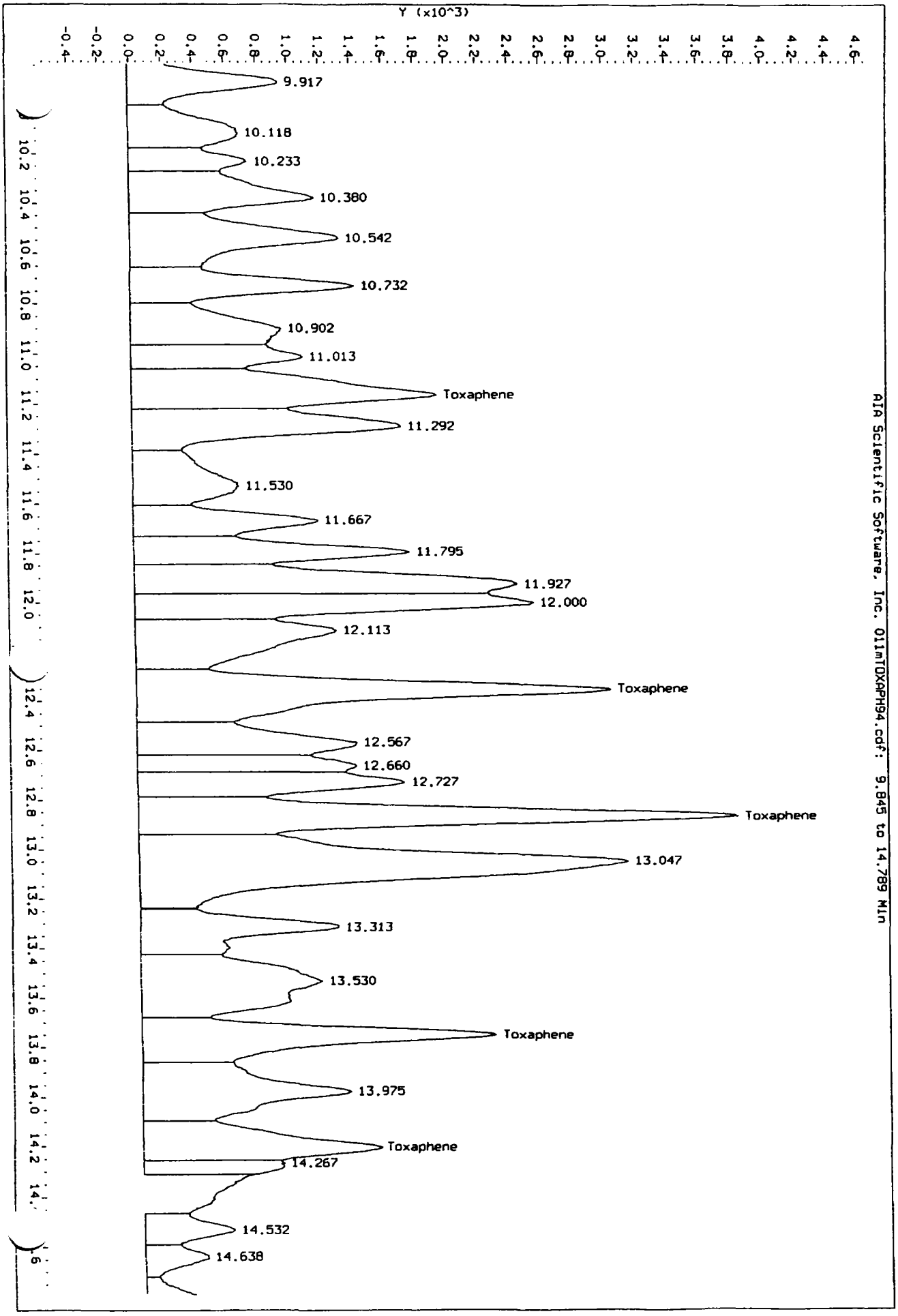
Lab Smp Id : TOXAPH94 Client Smp Id : TOXAPH94
Sample Type : INITIAL CAL: Level 2 Sublist : TOXAPH
Inj Date : 05-OCT-2005 19:21 Inst ID :
Operator : 2512
Method : /chem/tracegc82.i/m051005.b/2ulOLM04_clpestv6.m
Misc. Info : None

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
12.00		12230					
12.11		10951					
12.35	12.28 12.42	19026	38052	Toxaphene Peak 2	0.500000	38052	
12.57		8619					
12.66		5419					
12.73		8308					
12.86	12.79 12.93	19545	39090	Toxaphene Peak 3	0.500000	39090	
13.05		28471					
13.31		8194					
13.53		13328					
13.75	13.68 13.82	13130	26258	Toxaphene Peak 4	0.500000	26258	
13.97		11541					
14.20	14.13 14.27	9798	19594	Toxaphene Peak 5	0.500000	19594	M
14.27		2964					
14.53		3050					
14.64		2025					
14.82		3084					
15.01		1862					
15.22		1811					
15.41		1195					
15.60		2763					
15.[illegible]		198					
1[illegible]		197					
1[illegible]		274					
16.33		195					
16.49		323					
16.66	16.57 16.77	27001	1191025	Decachlorobiphenyl	0.040000		
16.95		4828					
17.29		799					

Manually Integrated Peaks



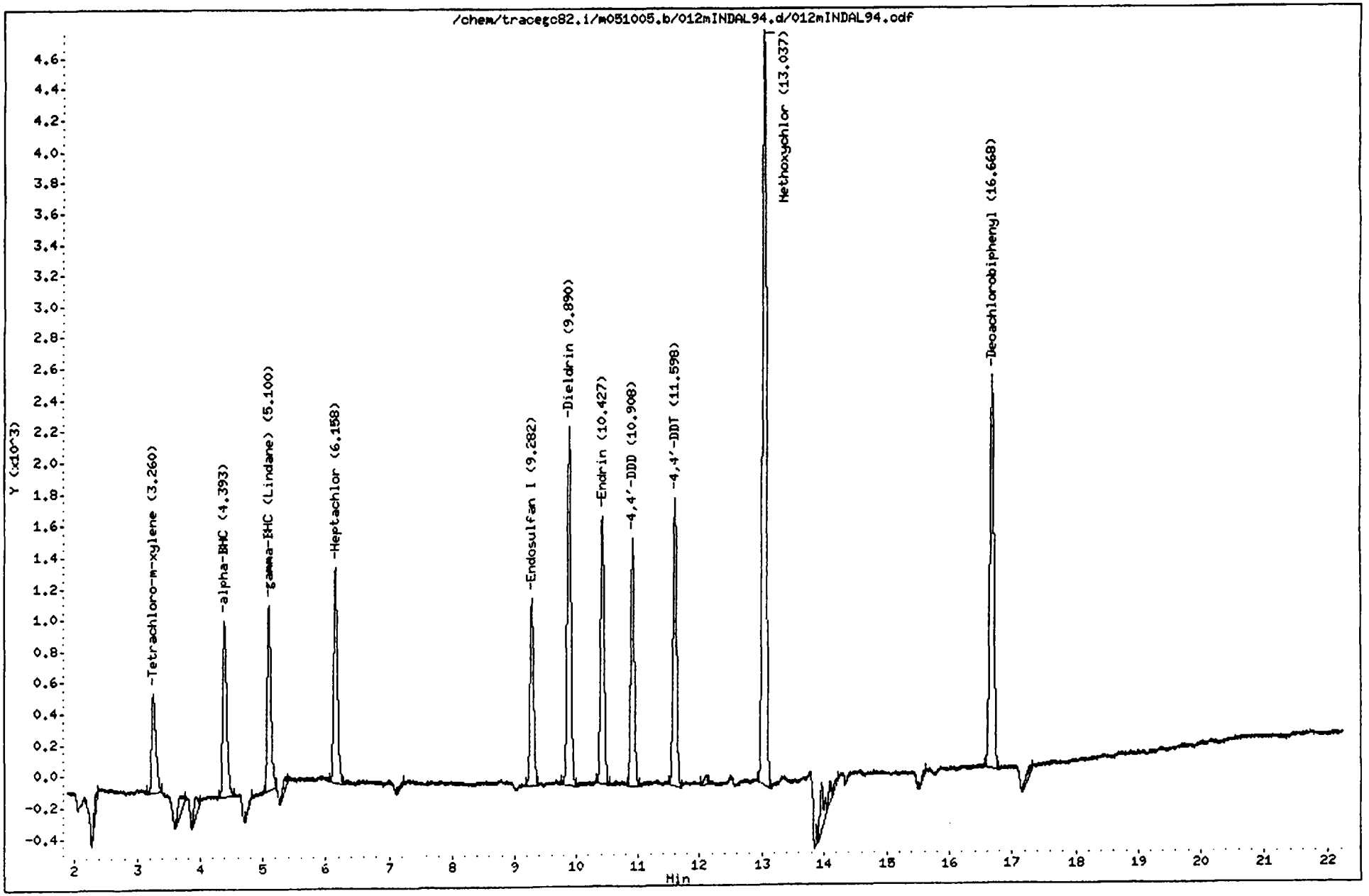
Start: 14.09 Stop: 14.25


Data File: /chem/tracegc82.i/m051005.b/011mTOXAPH94.d/011mTOXAPH94.cdf
Injection Date: 05-OCT-2005 19:21
Instrument: tracegc82.i
Client Sample ID: TOXAPH94
Y (x10^3)
AIA Scientific Software, Inc. 011mTOXAPH94.cdf: 9.845 to 14.789 Min
9.917
10.118
10.233
10.380
10.542
10.732
10.902
11.013
Toxaphene
11.292
11.530
11.667
11.795
11.927
12.000
12.113
Toxaphene
12.567
12.660
12.727
Toxaphene
13.047
13.313
13.530
Toxaphene
13.975
Toxaphene
14.267
14.532
14.638

Data File: /chem/tracegc82.i/m051005.b/012mINDAL94.d
Date : 05-OCT-2005 19:47
Client ID: INDAL94
Sample Info: INDAL94
Volume Injected (uL): 1.0
Column phase: olpest

Instrument: tracegc82.i

Operator: 2512
Column diameter: 0.53

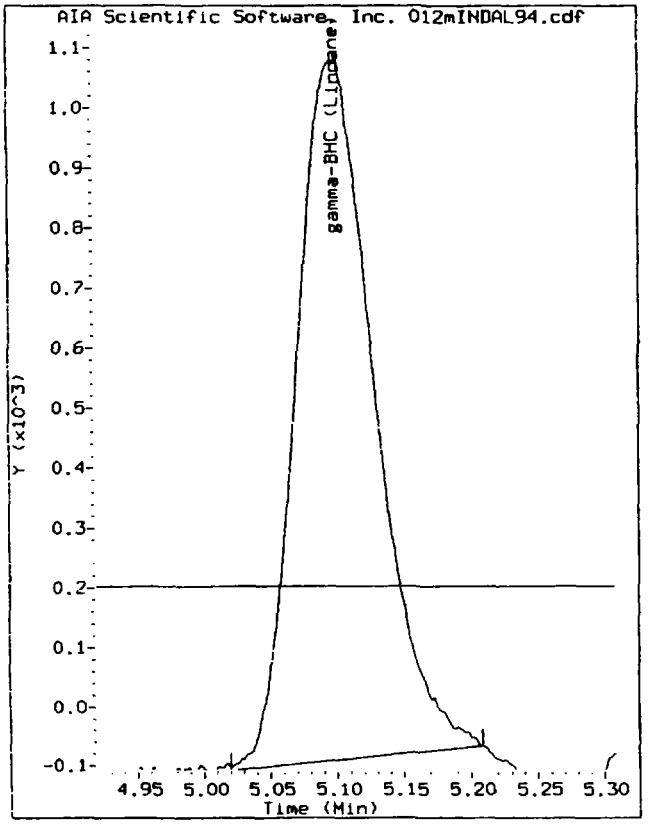


CompuChem Environmental Corporation

L Smp Id : INDAL94 Client Smp Id : INDAL94
Sample Type : INITIAL CAL: Level 1 Sublist : INDA
Inj Date : 05-OCT-2005 19:47 Inst ID : TRACEGC82
Operator : 2512
Method : /chem/tracegc82.i/m051005.b/2ulOLM04_clpestv6.m
Misc. Info : None

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
0.14			2537					
0.51			409					
0.72			9022					
0.87			5682					
1.15			945					
1.58			685					
2.36			333					
3.26	3.21	3.31	3017	719050	Tetrachloro-m-xylene	0.005000	603200	
3.71			683					
3.94			532					
4.39	4.34	4.44	4916	1186150	alpha-BHC	0.005000	983200	
4.82			170					
5.10	5.05	5.15	4780	1121350	gamma-BHC (Lindane)	0.005000	955800	M
5.34			302					
6.16	6.11	6.21	5741	1280200	Heptachlor	0.005000	1148200	
7.21			142					
9.28	9.21	9.35	4791	1100200	Endosulfan I	0.005000	958200	
9.89	9.82	9.96	9214	1030725	Dieldrin	0.010000	921400	
10.43	10.36	10.50	6856	762275	Endrin	0.010000	685500	
10.91	10.84	10.98	6125	709125	4,4'-DDD	0.010000	612500	
11.60	11.53	11.67	7511	840075	4,4'-DDT	0.010000	751000	
12.11			228					
	12.97	13.11	20913	460690	Methoxychlor	0.050000	418260	
			198					
13.96			1228					
14.10			379					
14.19			120					
15.59			140					
16.67	16.57	16.77	11259	1191025	Decachlorobiphenyl	0.010000	1125900	
17.29			357					

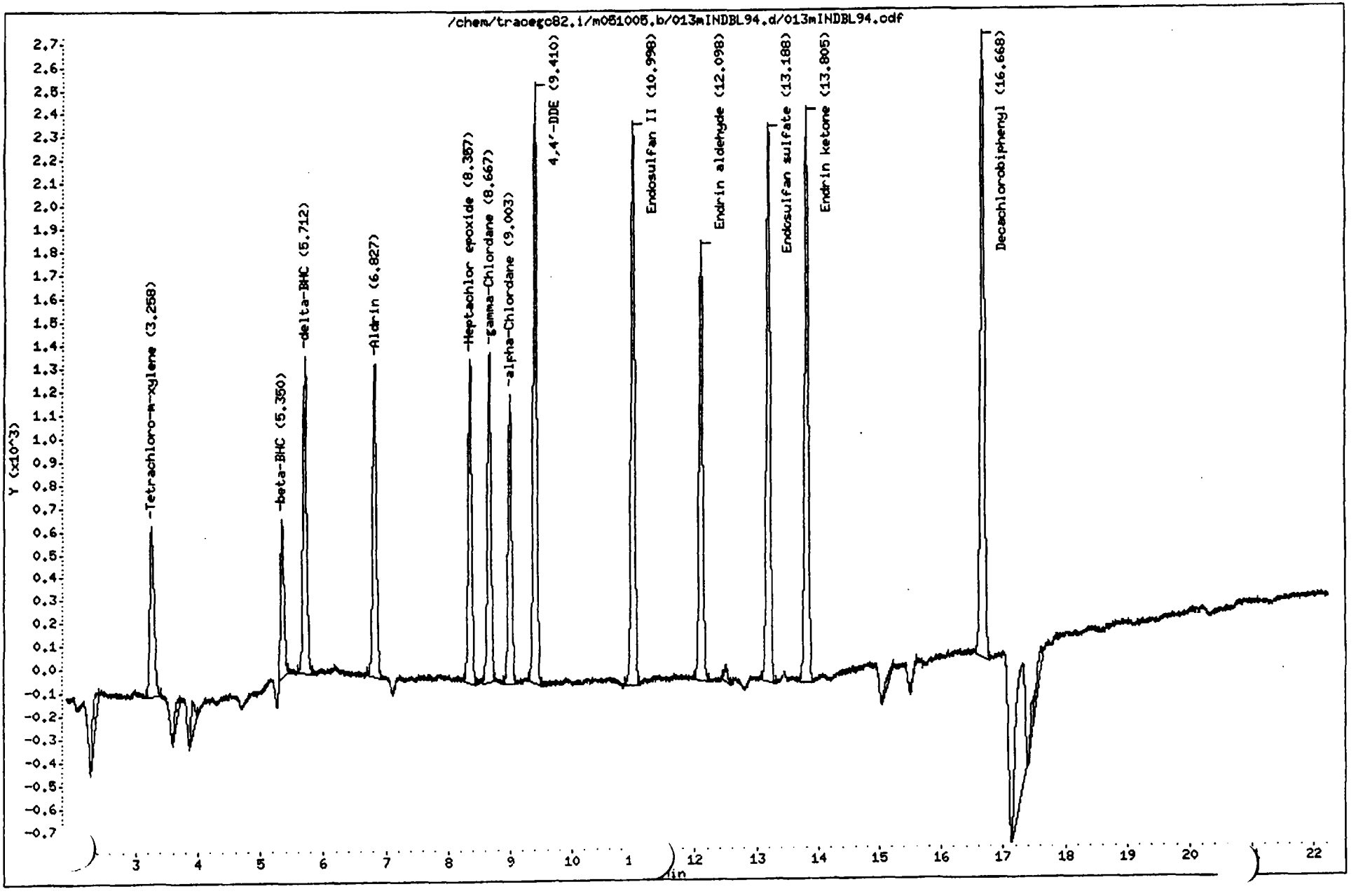
Manually Integrated Peaks



Start: 5.02 Stop: 5.21

Data File: /chem/tracegc82.i/m051005.b/013mINDBL94.d
Date : 05-OCT-2005 20:12
Client ID: INDBL94
Sample Info: INDBL94
Volume Injected (uL): 1.0
Column phase: olpest

Instrument: tracegc82.i
Operator: 2512
Column diameter: 0.53

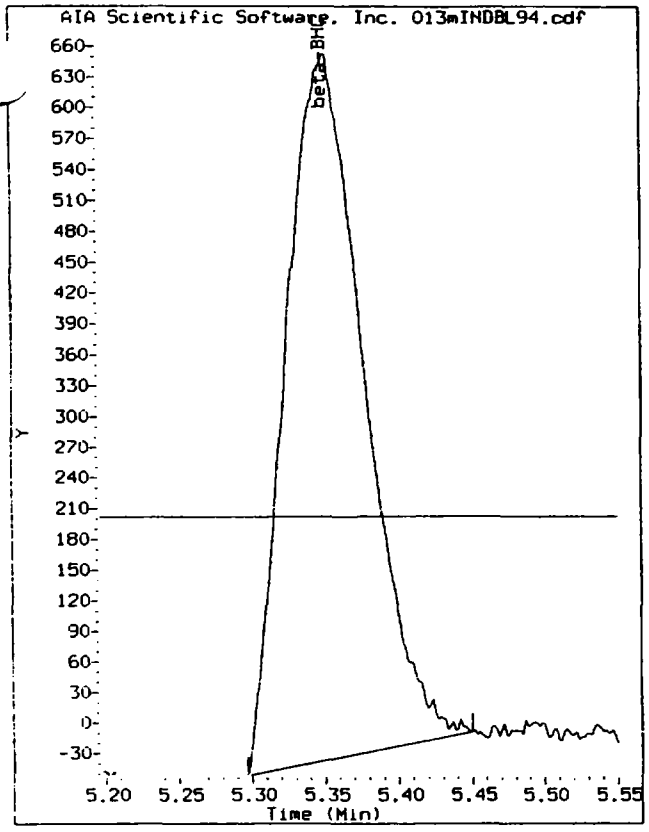


CompuChem Environmental Corporation

Lab Smp Id : INDBL94
Client Smp Id : INDBL94
Sample Type : INITIAL CAL: Level 1
Sublist : INDB
Inj Date : 05-OCT-2005 20:12
Inst ID : TRACEGC82
Operator : 2512
Method : /chem/tracegc82.i/m051005.b/2ul0LM04_clpestv6.m
Misc. Info : None

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
0.13			7453					
0.72			85573					
1.14			827					
1.56			500					
2.39			851					
3.26	3.21	3.31	3520	719050	Tetrachloro-m-xylene	0.005000		
3.70			408					
3.92			602					
5.35	5.30	5.40	2578	520750	beta-BHC	0.005000	515400	M
5.71	5.66	5.76	5335	1126550	delta-BHC	0.005000	1067000	
6.83	6.78	6.88	5522	1080000	Aldrin	0.005000	1104400	
8.36	8.29	8.43	5524	1070700	Heptachlor epoxide	0.005000	1104600	
8.67	8.60	8.74	5675	1099000	gamma-Chlordane	0.005000	1134800	
9.00	8.93	9.07	5013	981750	alpha-Chlordane	0.005000	1002400	
9.41	9.34	9.48	10323	994300	4,4'-DDE	0.010000	1032200	
11.00	10.93	11.07	9924	927200	Endosulfan II	0.010000	992300	
12.10	12.03	12.17	7825	743350	Endrin aldehyde	0.010000	782400	
12.50			294					
13.19	13.12	13.26	10014	945750	Endosulfan sulfate	0.010000	1001300	
13.80	13.74	13.88	10213	979550	Endrin ketone	0.010000	1021300	
15.20			290					
15.58			144					
16.67	16.57	16.77	12106	1191025	Decachlorobiphenyl	0.010000		
17.32			5834					
17.47			467					
17.61			813					

Manually Integrated Peaks

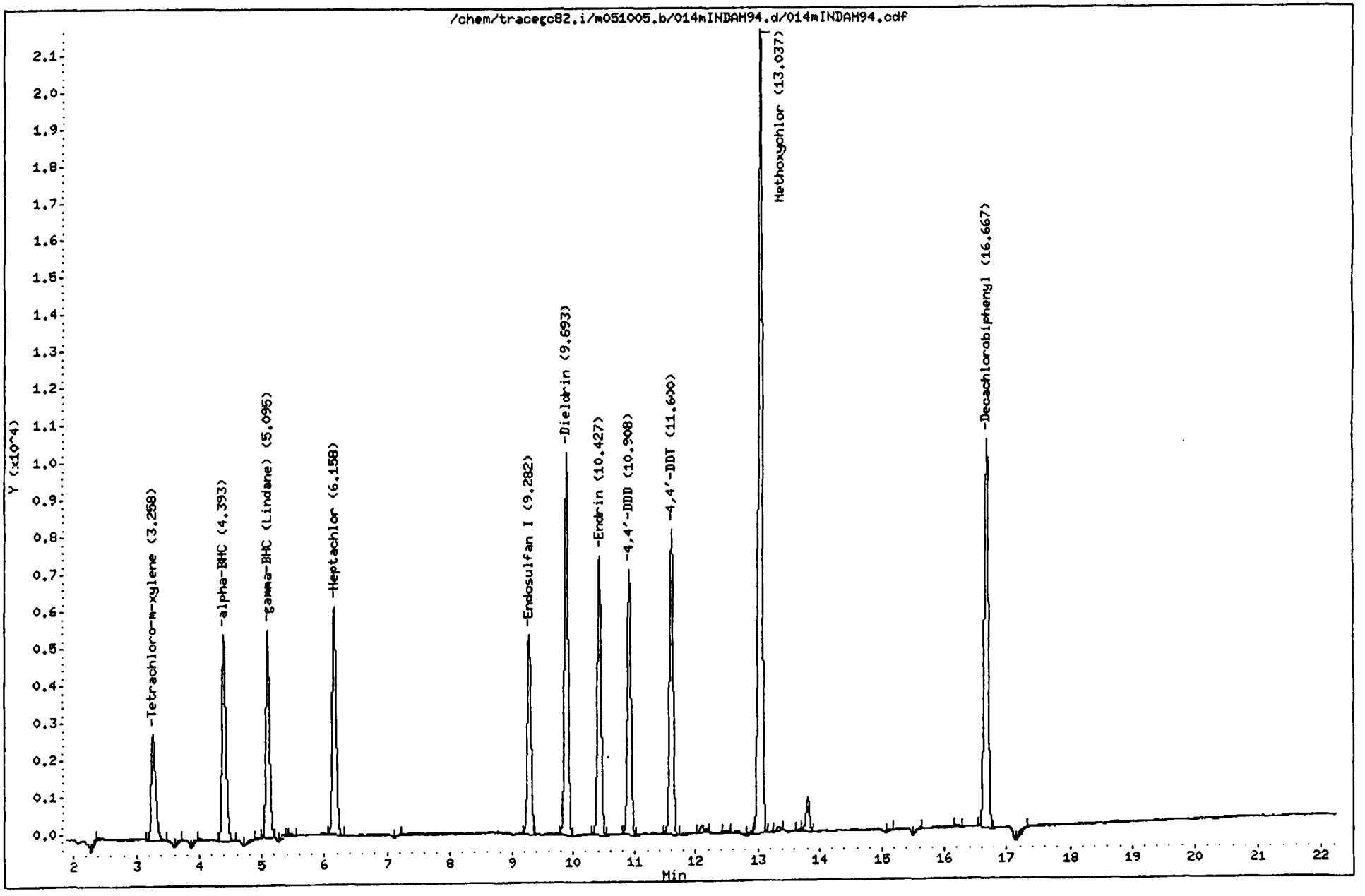


Start: 5.30 Stop: 5.45

Data File: /chem/tracegc82.i/m051005.b/014mINDAM94.d
Date : 05-OCT-2005 20:38
Client ID: INDAM94
Sample Info: INDAM94
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc82.i

Operator: 2512
Column diameter: 0.53

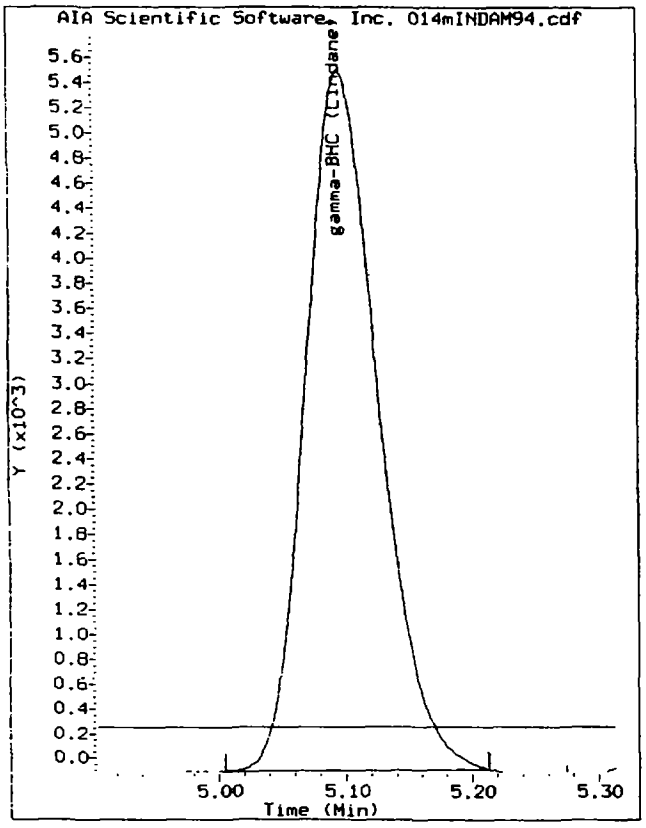


CompuChem Environmental Corporation

Lab Smp Id : INDAM94 Client Smp Id : INDAM94
Sample Type : INITIAL CAL: Level 2 Sublist : INDA
Inj Date : 05-OCT-2005 20:38 Inst ID : TRACEGC82
Operator : 2512
Method : /chem/tracegc82.i/m051005.b/2ulOLM04_clpestv6.m
Misc. Info : None

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
0.15			3366					
0.72			13298					
0.87			10773					
1.14			1184					
1.60			809					
2.37			335					
3.26	3.21	3.31	14382	719050	Tetrachloro-m-xylene	0.020000	719050	
3.67			370					
3.94			337					
4.39	4.34	4.44	23723	1186150	alpha-BHC	0.020000	1186150	
4.86			412					
5.10	5.05	5.15	22427	1121350	gamma-BHC (Lindane)	0.020000	1121350	M2
5.35			386					
5.48			241					
6.16	6.11	6.21	25605	1280200	Heptachlor	0.020000	1280200	
7.22			132					
9.28	9.21	9.35	22005	1100200	Endosulfan I	0.020000	1100200	
9.89	9.82	9.96	41230	1030725	Dieldrin	0.040000	1030725	
10.43	10.36	10.50	30491	762275	Endrin	0.040000	762275	
10.91	10.84	10.98	28365	709125	4,4'-DDD	0.040000	709125	
11.60	11.53	11.67	33603	840075	4,4'-DDT	0.040000	840075	
12.10			1042					
			187					
			358					
13.04	12.97	13.11	92139	460690	Methoxychlor	0.200000	460690	
13.33			441					
13.70			204					
13.80			3900					
15.17			123					
15.61			437					
16.21			228					
16.67	16.57	16.77	47642	1191025	Decachlorobiphenyl	0.040000	1191025	
17.30			685					

Manually Integrated Peaks

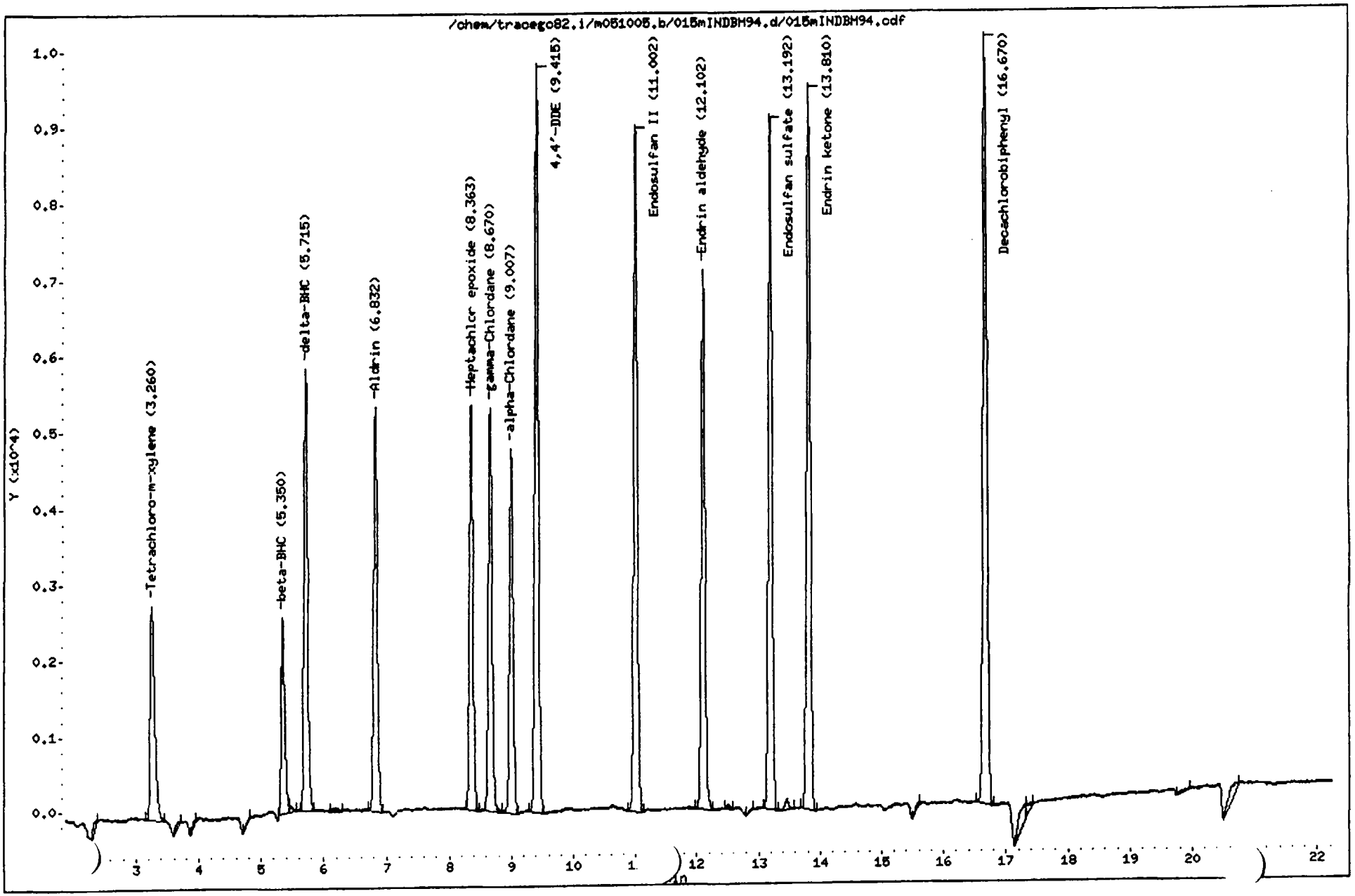


Start: 5.00 Stop: 5.21

Data File: /chem/tracego82.i/m051005.b/015mINDBM94.d
Date : 05-OCT-2005 21:03
Client ID: INDBM94
Sample Info: INDBM94
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracego82.i

Operator: 2512
Column diameter: 0.53

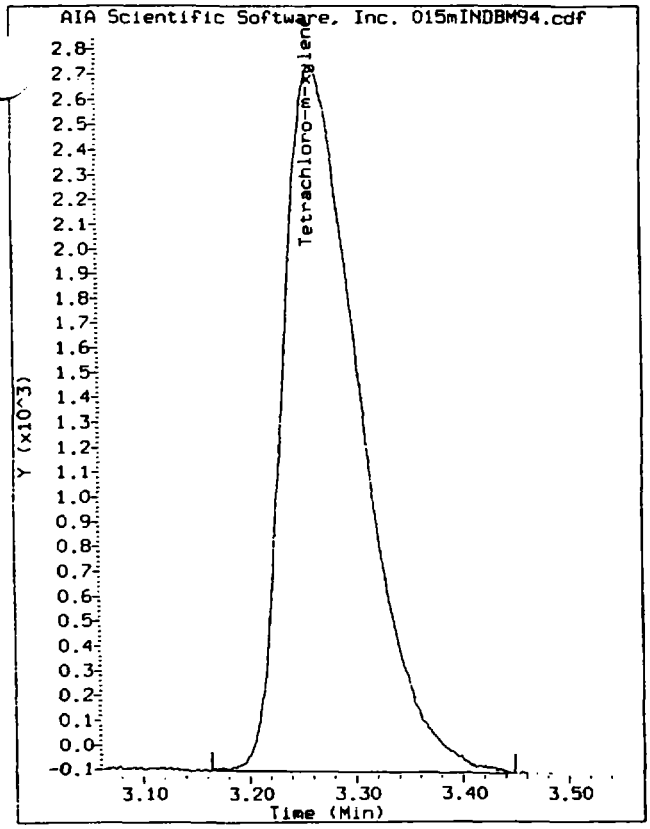


CompuChem Environmental Corporation

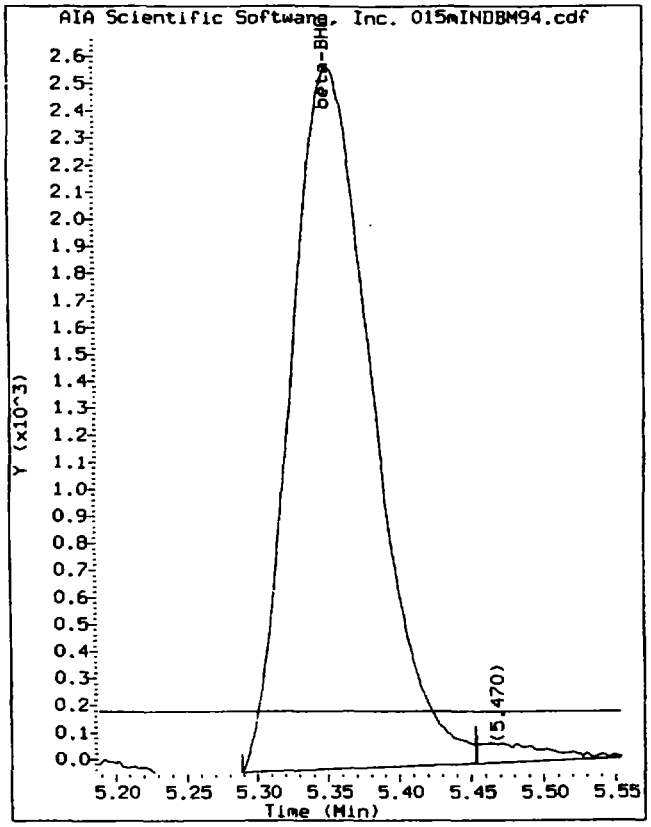
Lab Smp Id : INDBM94 Client Smp Id : INDBM94
Sample Type : INITIAL CAL: Level 2 Sublist : INDB
Inj Date : 05-OCT-2005 21:03 Inst ID : TRACEGC82
Operator : 2512
Method : /chem/tracegc82.i/m051005.b/2ulOLM04_clpestv6.m
Misc. Info : None

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
0.14			3384					
0.44			300					
0.72			11838					
0.86			10198					
1.14			962					
1.56			624					
2.38			671					
3.26	3.21	3.31	14236	719050	Tetrachloro-m-xylene	0.020000		M
3.68			328					
3.94			214					
4.83			190					
5.35	5.30	5.40	10416	520750	beta-BHC	0.020000	520750	M
5.47			252					
5.72	5.66	5.76	22531	1126550	delta-BHC	0.020000	1126550	
6.20			312					
6.83	6.78	6.88	21600	1080000	Aldrin	0.020000	1080000	
8.36	8.29	8.43	21415	1070700	Heptachlor epoxide	0.020000	1070700	
8.67	8.60	8.74	21981	1099000	gamma-Chlordane	0.020000	1099000	
9.01	8.93	9.07	19636	981750	alpha-Chlordane	0.020000	981750	
9.42	9.34	9.48	39772	994300	4,4'-DDE	0.040000	994300	
11.00	10.93	11.07	37089	927200	Endosulfan II	0.040000	927200	
12.10	12.03	12.17	29734	743350	Endrin aldehyde	0.040000	743350	
12.51			294					
12.88			123					
13.19	13.12	13.26	37831	945750	Endosulfan sulfate	0.040000	945750	
13.45			701					
13.81	13.74	13.88	39182	979550	Endrin ketone	0.040000	979550	
15.58			217					
16.67	16.57	16.77	46202	1191025	Decachlorobiphenyl	0.040000		
17.31			2312					
17.42			639					
19.95			324					
20.70			1840					

Manually Integrated Peaks

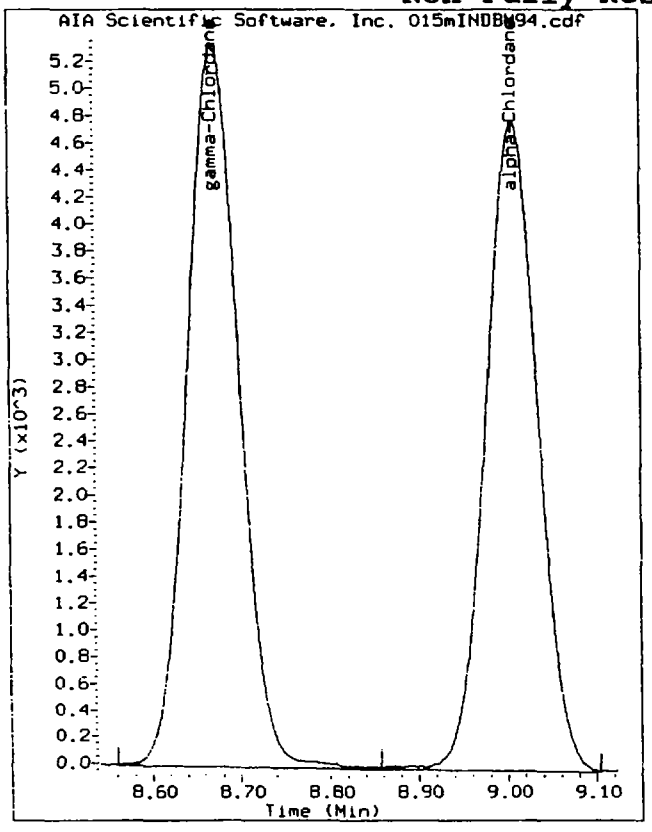


Start: 3.16 Stop: 3.45



Start: 5.29 Stop: 5.45

Non-Fully Resolved Peaks

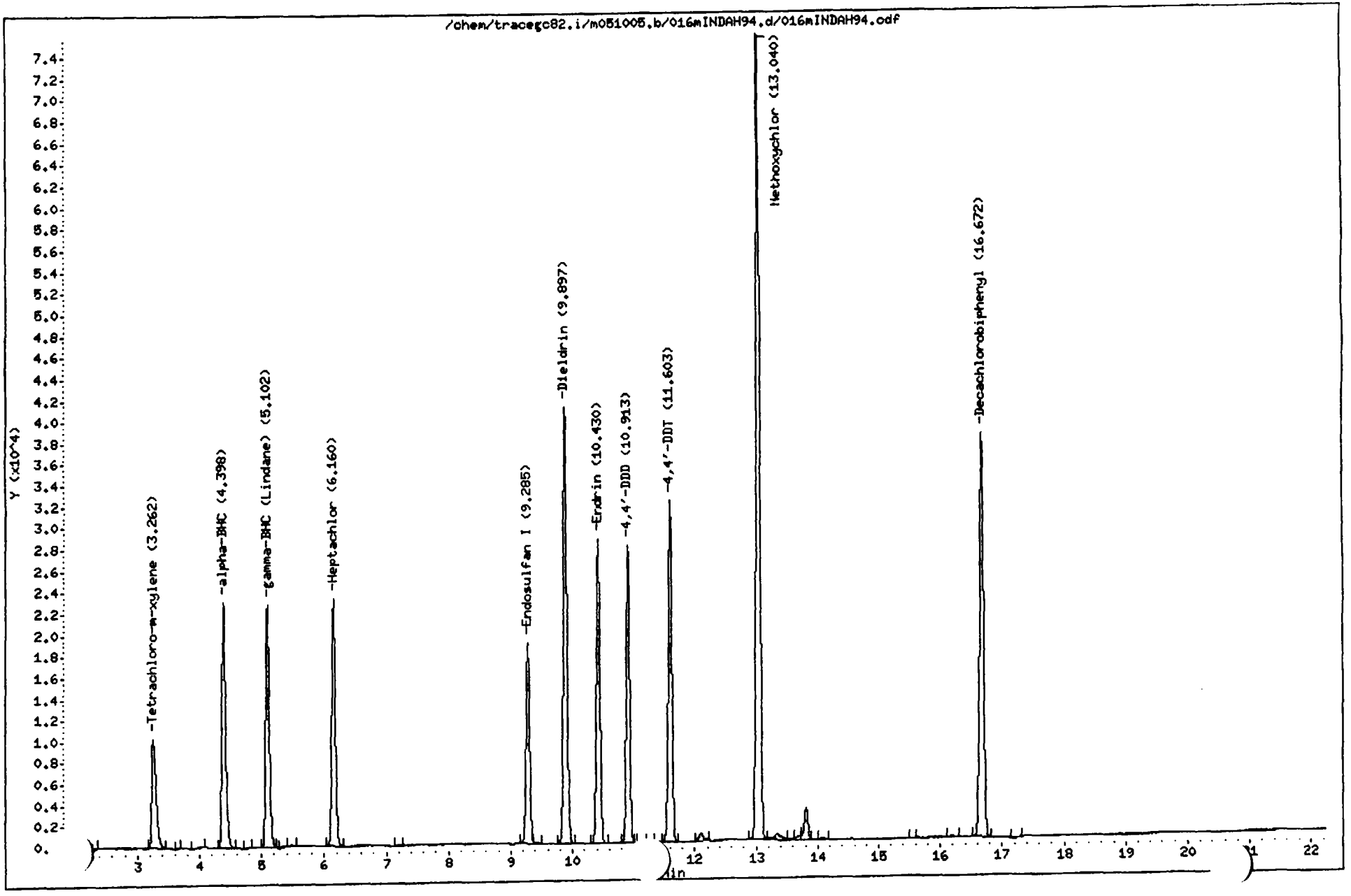


Resolution: 99.4%

Data File: /chem/tracegc82.i/m051005.b/016mINDAH94.d
Date : 05-OCT-2005 21:28
Client ID: INDAH94
Sample Info: INDAH94
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc82.i

Operator: 2512
Column diameter: 0.53

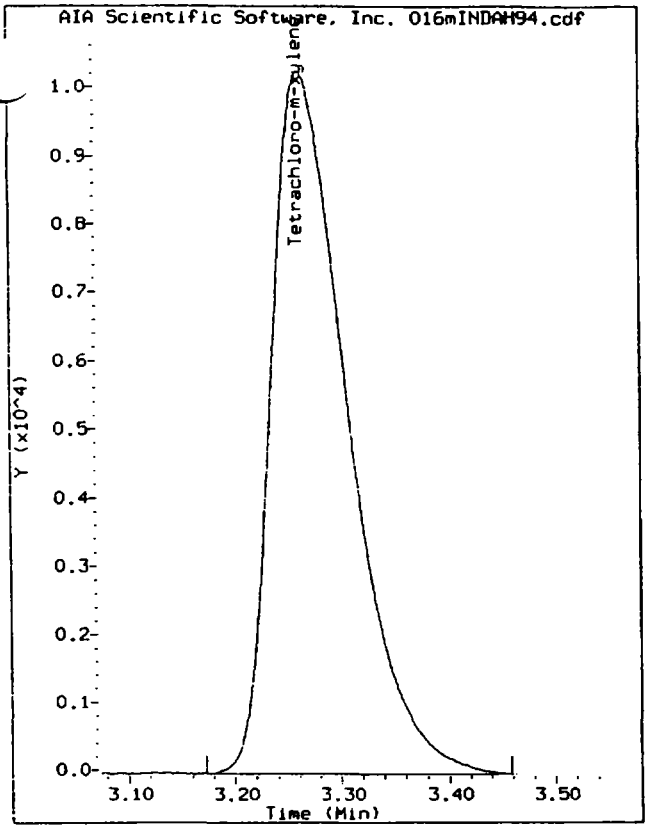


CompuChem Environmental Corporation

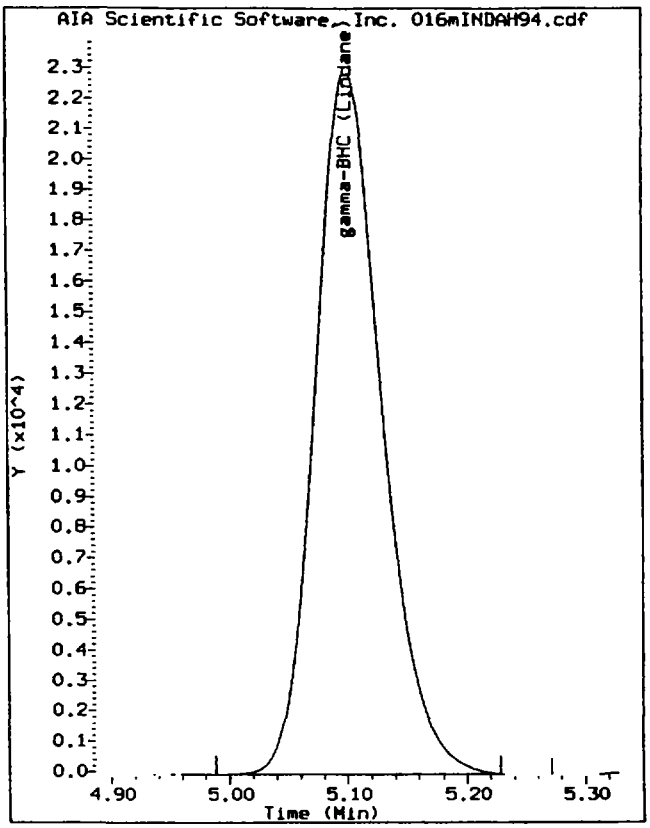
Lab Smp Id : INDAH94 Client Smp Id : INDAH94
Sample Type : INITIAL CAL: Level 3 Sublist : INDA
Inj Date : 05-OCT-2005 21:28 Inst ID : TRACEGC82
Operator : 2512
Method : /chem/tracegc82.i/m051005.b/2ulOLM04_clpestv6.m
Misc. Info : None

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
0.14			644					
0.72			19207					
0.86			7599					
1.14			1033					
1.57			1215					
2.36			283					
3.26	3.21	3.31	51139	719050	Tetrachloro-m-xylene	0.080000	639238	M2
3.69			274					
4.02			1417					
4.40	4.34	4.44	95467	1186150	alpha-BHC	0.080000	1193325	
4.83			218					
5.10	5.05	5.15	90241	1121350	gamma-BHC (Lindane)	0.080000	1128012	M2
5.35			425					
5.48			542					
6.16	6.11	6.21	93551	1280200	Heptachlor	0.080000	1169375	
7.21			263					
9.28	9.21	9.35	75532	1100200	Endosulfan I	0.080000	944150	
9.42			494					
9.90	9.82	9.96	161069	1030725	Dieldrin	0.160000	1006675	
10.43	10.36	10.50	111688	762275	Endrin	0.160000	698050	
10.91	10.84	10.98	107586	709125	4,4'-DDD	0.160000	672412	
11.15			275					
11.29			158					
11.60	11.53	11.67	125555	840075	4,4'-DDT	0.160000	784712	
12.10			3371					
13.04	12.97	13.11	315014	460690	Methoxychlor	0.800000	393766	
13.34			4962					
13.58			688					
13.71			1676					
13.81			13439					
14.08			594					
15.61			140					
16.20			795					
16.67	16.57	16.77	166013	1191025	Decachlorobiphenyl	0.160000	1037575	
17.30			246					

Manually Integrated Peaks



Start: 3.17 Stop: 3.46



Start: 4.99 Stop: 5.23

Data File: /chem/tracego82.i/m051005.b/017mINDBH94.d

Date : 05-OCT-2005 21:54

Client ID: INDBH94

Sample Info: INDBH94

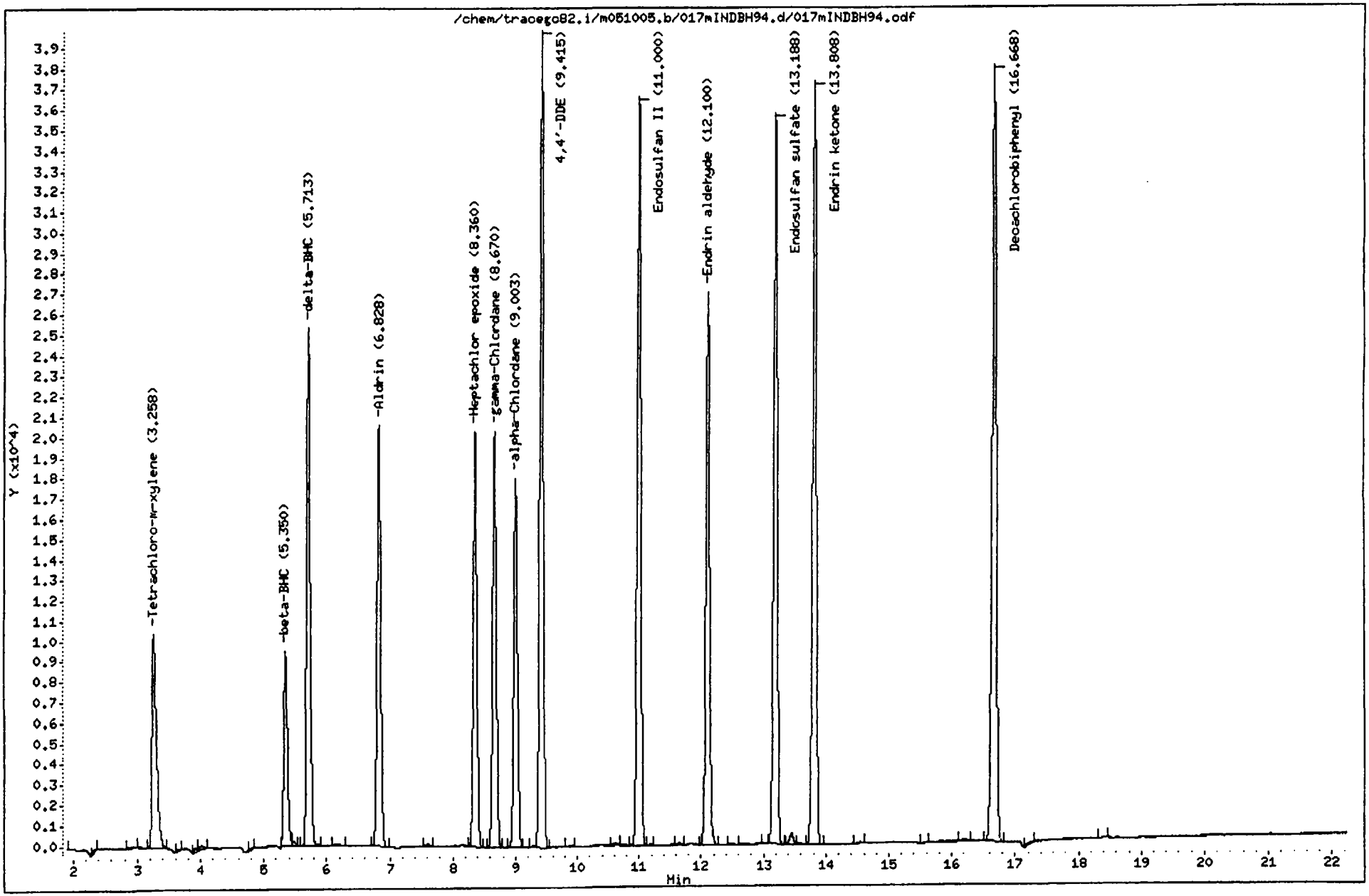
Volume Injected (uL): 1.0

Column phase: clpest

Instrument: tracego82.i

Operator: 2512

Column diameter: 0.53

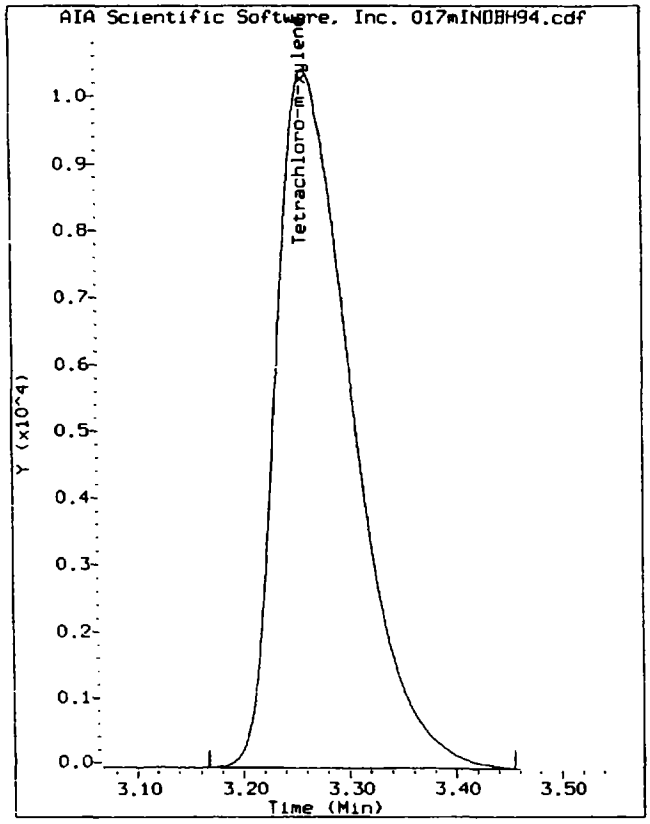


CompuChem Environmental Corporation

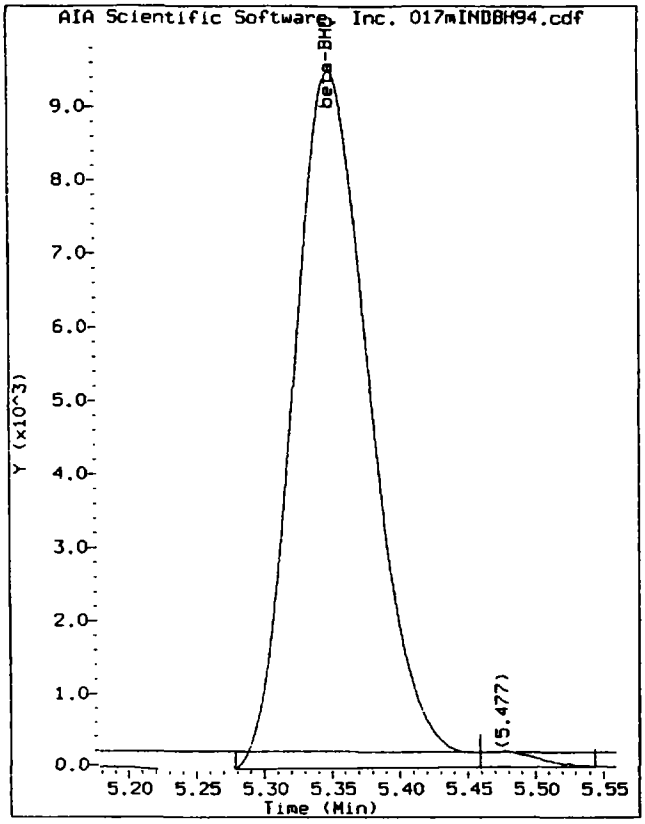
Lab Smp Id : INDBH94 Client Smp Id : INDBH94
Sample Type : INITIAL CAL: Level 3 Sublist : INDB
Inj Date : 05-OCT-2005 21:54 Inst ID : TRACEGC82
Operator : 2512
Method : /chem/tracegc82.i/m051005.b/2ulOLM04_clpestv6.m
Misc. Info : None

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
0.14			781					
0.72			46767					
1.14			1101					
1.56			487					
1.85			223					
2.37			487					
2.93			443					
3.26	3.21	3.31	52186	719050	Tetrachloro-m-xylene	0.080000		M2
3.68			257					
3.96			602					
4.02			956					
4.85			407					
5.35	5.30	5.40	37744	520750	beta-BHC	0.080000	471800	M~
5.48			612					
5.71	5.66	5.76	94297	1126550	delta-BHC	0.080000	1178712	
6.17			493					
6.83	6.78	6.88	82084	1080000	Aldrin	0.080000	1026038	
7.60			444					
8.36	8.29	8.43	79336	1070700	Heptachlor epoxide	0.080000	991700	
8.67	8.60	8.74	80603	1099000	gamma-Chlordane	0.080000	1007538	
9.00	8.93	9.07	71745	981750	alpha-Chlordane	0.080000	896812	
9.42	9.34	9.48	154263	994300	4,4'-DDE	0.160000	964138	
			351					
			472					
11.00	10.93	11.07	145178	927200	Endosulfan II	0.160000	907356	
11.18			199					
11.66			320					
12.10	12.03	12.17	109608	743350	Endrin aldehyde	0.160000	685050	
12.50			354					
13.02			189					
13.19	13.12	13.26	144268	945750	Endosulfan sulfate	0.160000	901675	
13.45			2048					
13.81	13.74	13.88	149663	979550	Endrin ketone	0.160000	935388	
14.55			297					
15.62			209					
16.19			571					
16.67	16.57	16.77	167655	1191025	Decachlorobiphenyl	0.160000		
17.28			444					
18.41			280					

Manually Integrated Peaks



Start: 3.17 Stop: 3.46

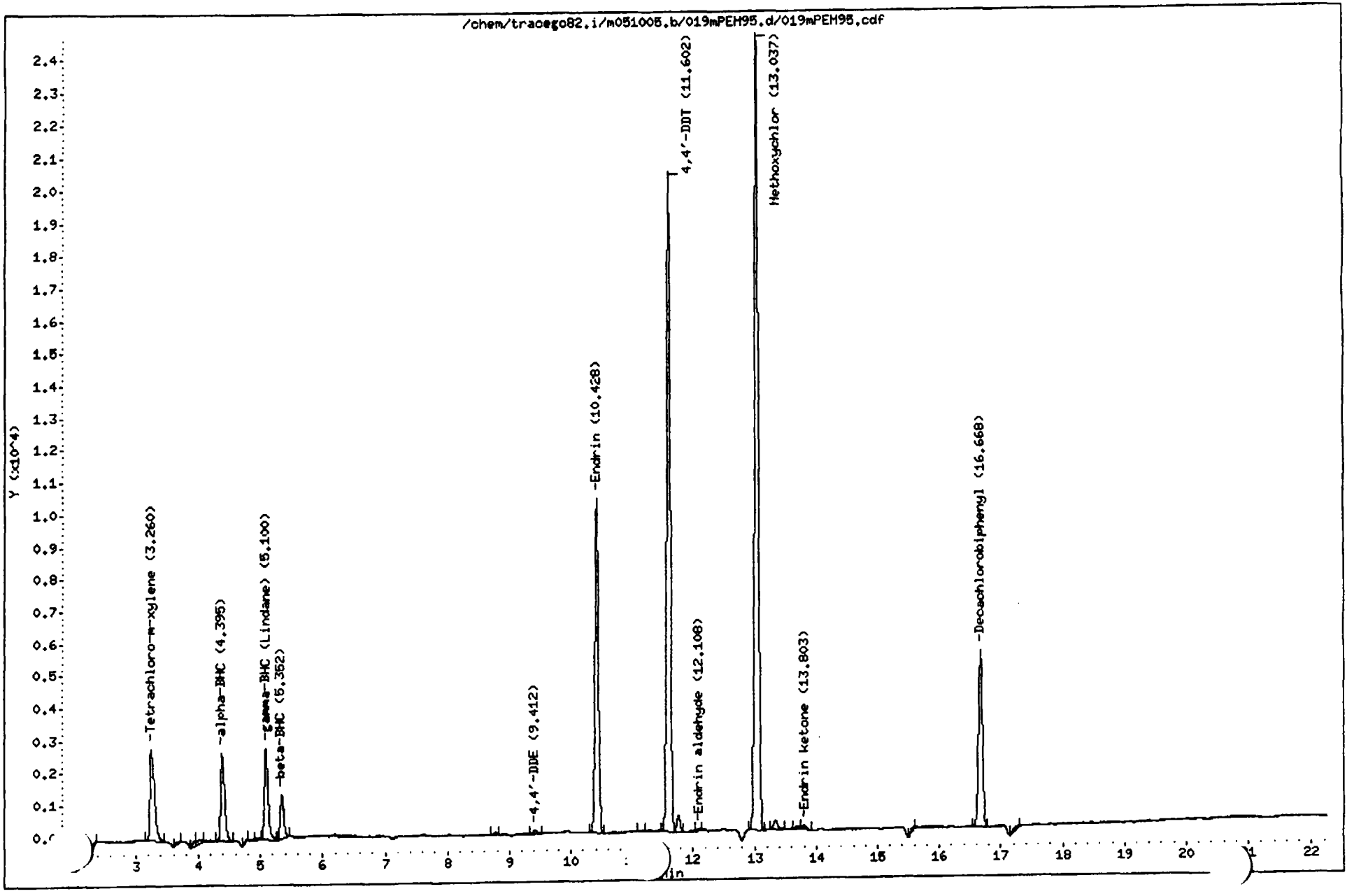


Start: 5.28 Stop: 5.46

Data File: /chem/tracegc82.i/m051005.b/019mPEM95.d
Date : 05-OCT-2005 22:45
Client ID: PEM95
Sample Info: PEM95
Volume Injected (uL): 1.0
Column phase: olpest

Instrument: tracegc82.i

Operator: 2512
Column diameter: 0.53

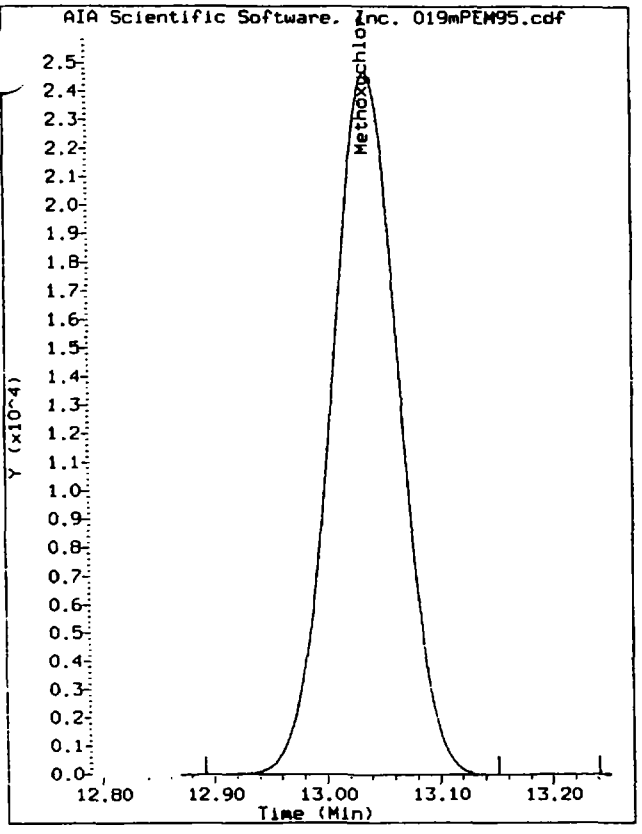


CompuChem Environmental Corporation

Lab Smp Id : PEM95 Client Smp Id : PEM95
Sample Type : PEM Sublist : PEM
Inj Date : 05-OCT-2005 22:45 Inst ID : TRACEGC82
Operator : 2512 Spike Sublist : PEM
Method : /chem/tracegc82.i/m051005.b/2ul0LM04_clpestv6.m
Misc. Info : None

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CALC AMT ON-COLUMN (Ng)	%D	%D LIMIT	FLAGS
0.14			2996							
0.72			7564							
0.87			13198							
1.13			1339							
1.58			832							
2.37			359							
3.26	3.21	3.31	14296	719050	Tetrachloro-m-xylene	0.020000	0.019882	-0.6	25.0	
3.67			317							
3.92			428							
4.03			580							
4.40	4.34	4.44	11666	1186150	alpha-BHC	0.010000	0.009835	-1.6	25.0	
4.78			207							
4.97			255							
5.10	5.05	5.15	11901	1121350	gamma-BHC (Lindane)	0.010000	0.010613	6.1	25.0	
5.35	5.30	5.40	5699	520750	beta-BHC	0.010000	0.010944	9.4	25.0	
8.77			274							
9.41	9.34	9.48	519	994300	4,4'-DDE	0.000000	0.000522			J
10.43	10.36	10.50	41567	762275	Endrin	0.050000	0.054530	9.1	25.0	
11.16			193							
11.60	11.53	11.67	80973	840075	4,4'-DDT	0.100000	0.096388	-3.6	25.0	
11.76			2141							
12.11	12.03	12.17	111	743350	Endrin aldehyde	0.000000	0.000149			J
13.04	12.97	13.11	103430	460690	Methoxychlor	0.250000	0.224511	-10.2	25.0	M
13.34			1654							
13.71			559							
13.80	13.74	13.88	735	979550	Endrin ketone	0.000000	0.000750			J
15.61			467							
16.67	16.57	16.77	24618	1191025	Decachlorobiphenyl	0.020000	0.020669	3.3	25.0	
17.28			489							

Manually Integrated Peaks

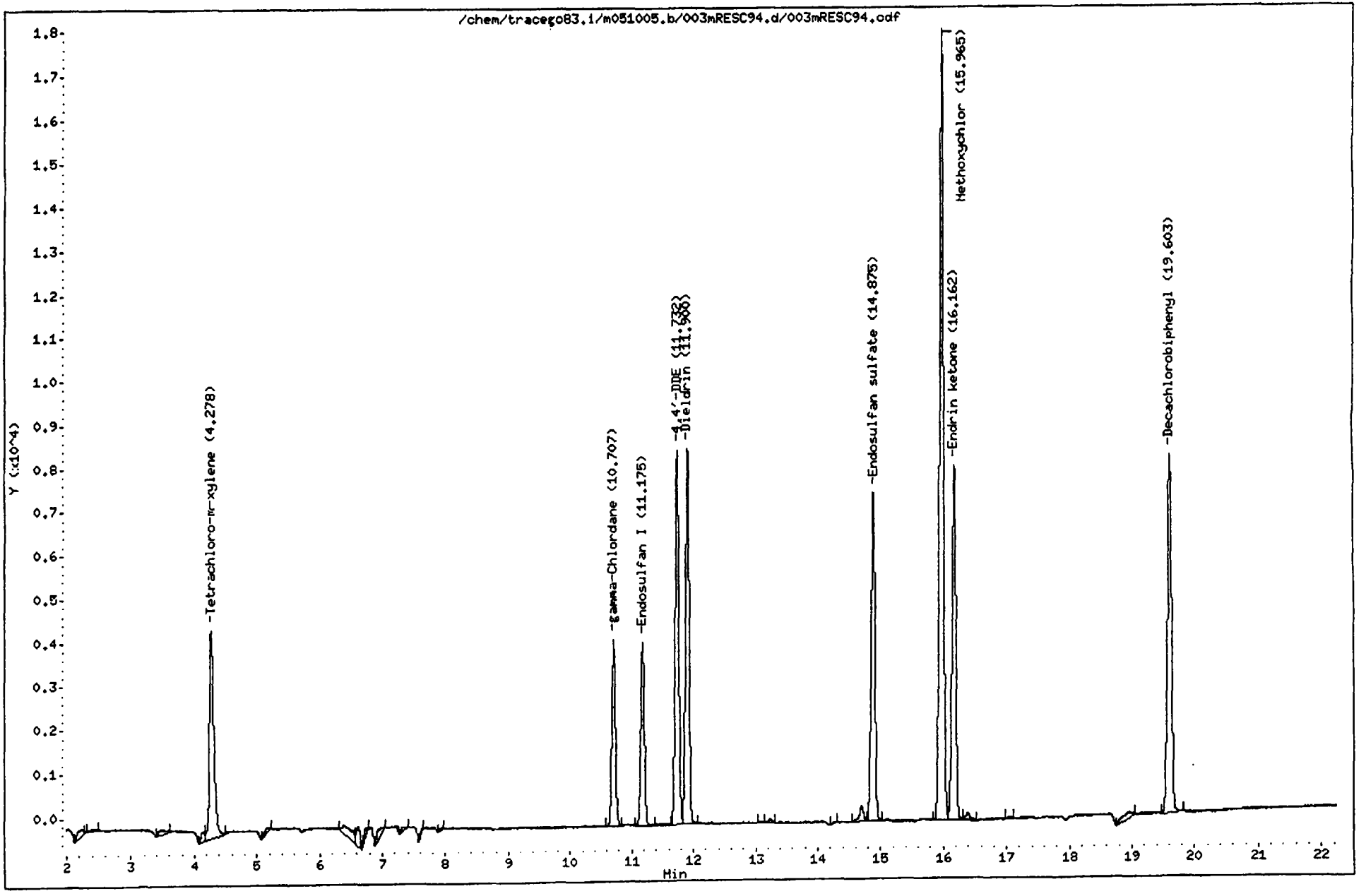


Start: 12.89 Stop: 13.15

Data File: /chem/tracegc83.i/m051005.b/003mRESC94.d
Date : 05-OCT-2005 15:57
Client ID: RESC94
Sample Info: RESC94
Volume Injected (uL): 1.0
Column phase: olpest2

Instrument: tracegc83.i

Operator: 2512
Column diameter: 0.53

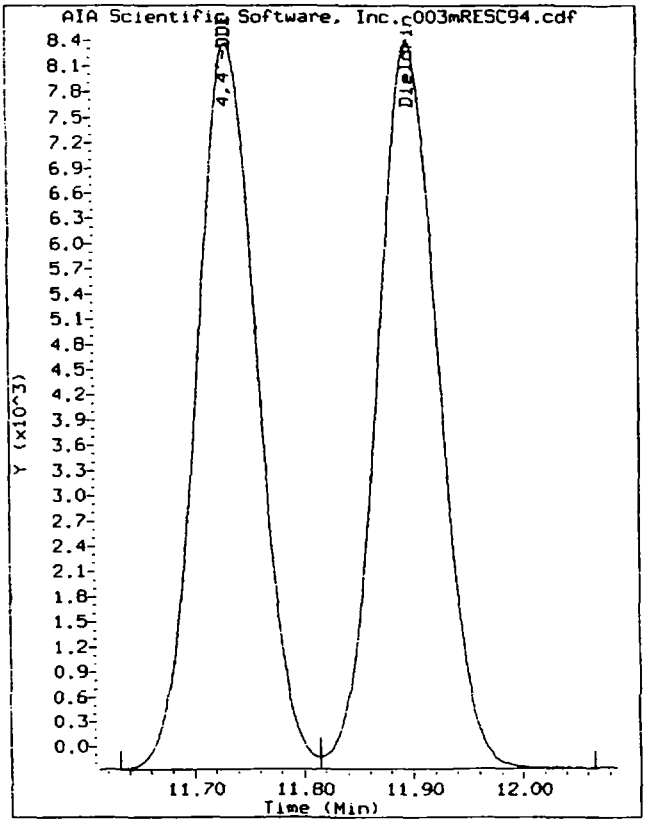


CompuChem Environmental Corporation

Lab Smp Id : RESC94 Client Smp Id : RESC94
Sample Type : RESOLUTION Sublist : RESC
Inj Date : 05-OCT-2005 15:57 Inst ID : TRACEGC83
Operator : 2512
Method : /chem/tracegc83.i/m051005.b/2ulOLM04_clpest2v6.m
Misc. Info : None

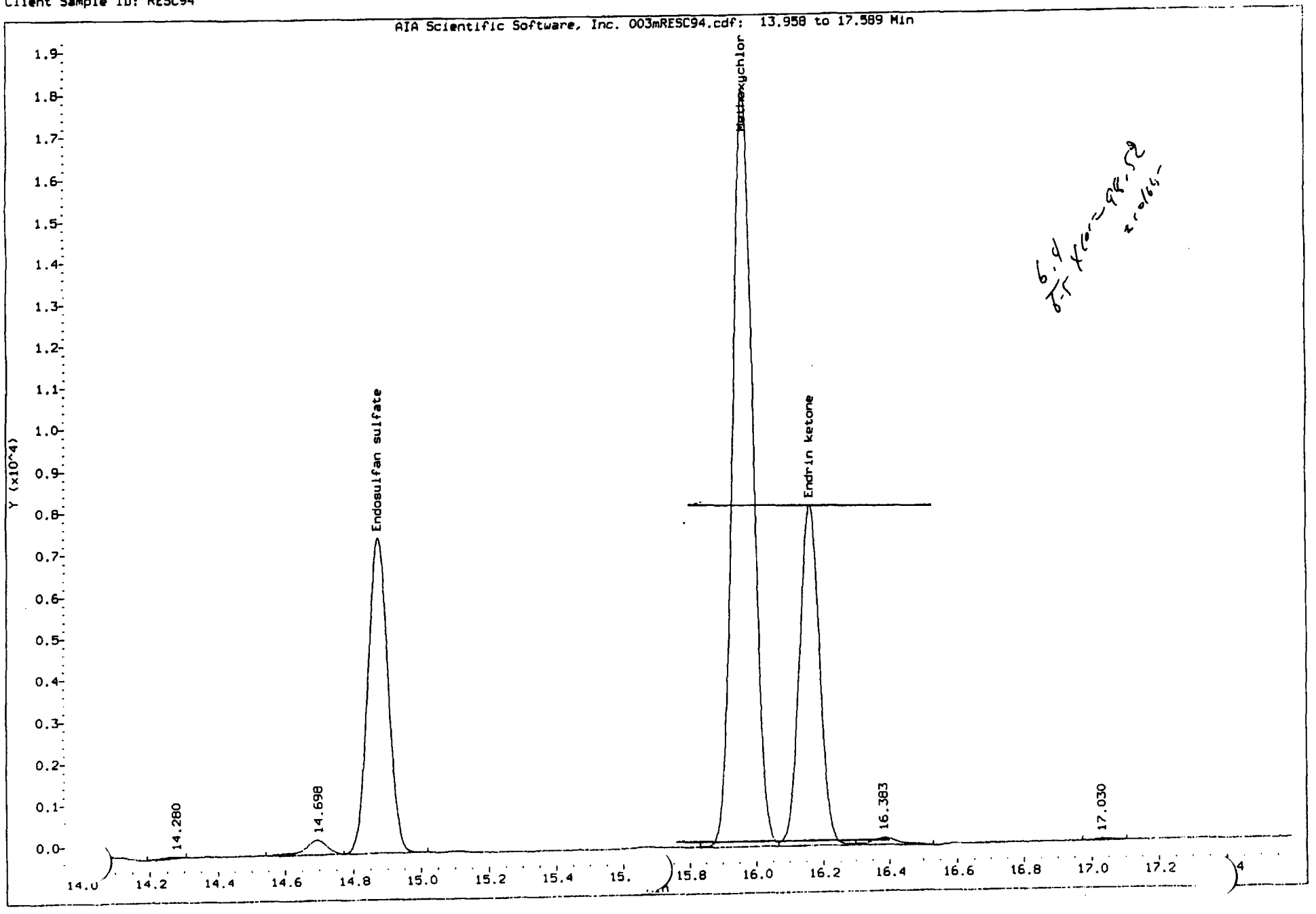
RT	RT WINDOW		AREA	COMPOUND	FLAGS
0.14			3402		
0.72			99176		
1.19			96		
1.27			1382		
1.47			852		
2.25			1125		
2.42			263		
3.49			852		
4.15			973		
4.28	4.23	4.33	22906	Tetrachloro-m-xylene	
5.18			701		
6.39			2756		
6.62			1901		
6.75			1017		
7.02			1347		
7.33			584		
7.64			236		
7.95			189		
10.71	10.64	10.78	17011	gamma-Chlordane	
11.18	11.11	11.25	17165	Endosulfan I	
11.73	11.66	11.80	33869	4,4'-DDE	
11.90	11.83	11.97	33898	Dieldrin	
13.07			125		
1[illegible]			448		
[illegible]			163		
1[illegible]			1644		
14.88	14.81	14.95	31130	Endosulfan sulfate	
15.96	15.89	16.03	76887	Methoxychlor	
16.16	16.09	16.23	34022	Endrin ketone	
16.38			1015		
17.03			169		
18.95			1746		
19.60	19.51	19.71	38035	Decachlorobiphenyl	

Non-Fully Resolved Peaks

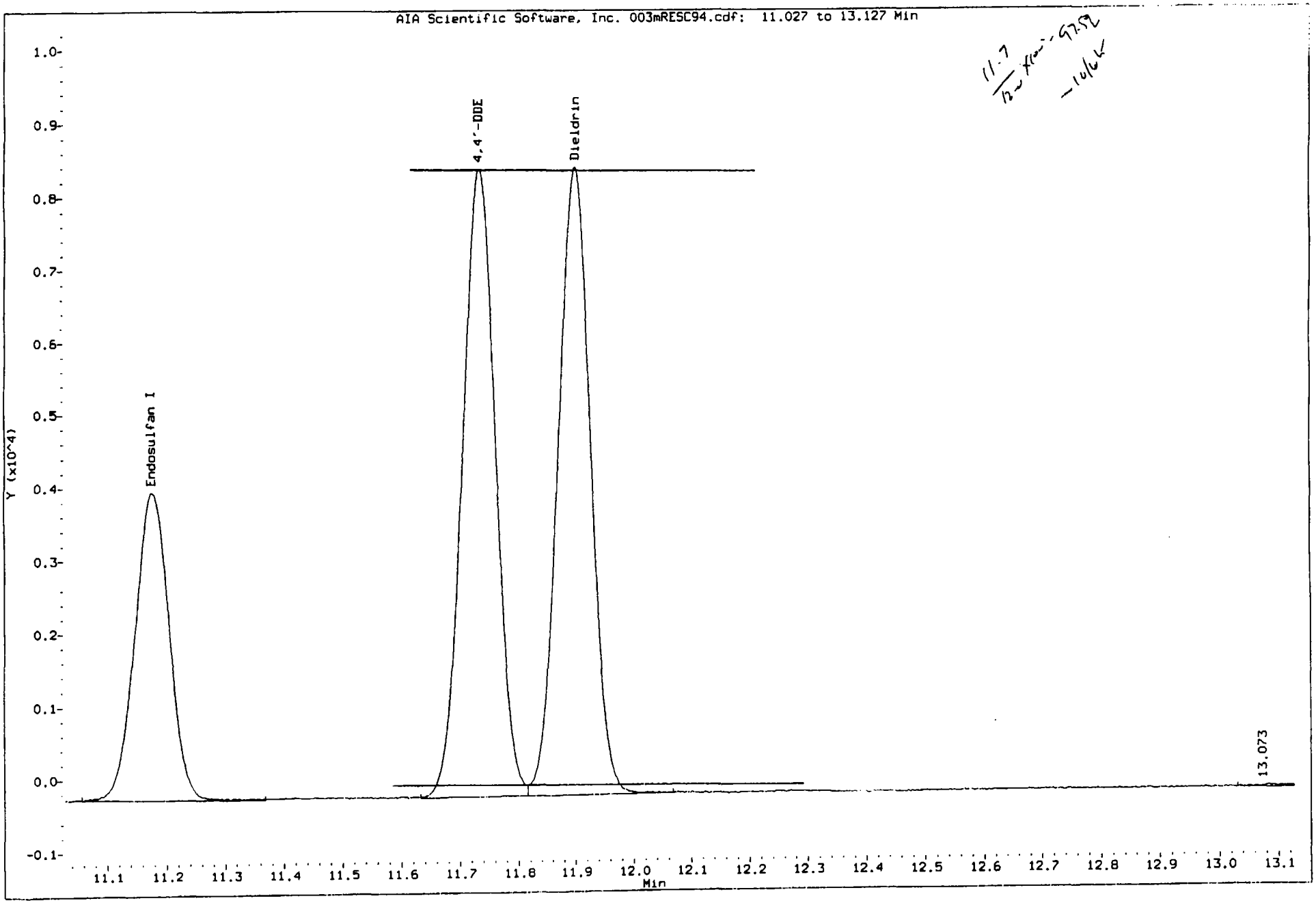


Resolution: 98.2%

Data File: /chem/tracegc83.i/m051005.b/003mRESC94.d/003mRESC94.cdf
Injection Date: 05-OCT-2005 15:57
Instrument: tracegc83.i
Client Sample ID: RESC94



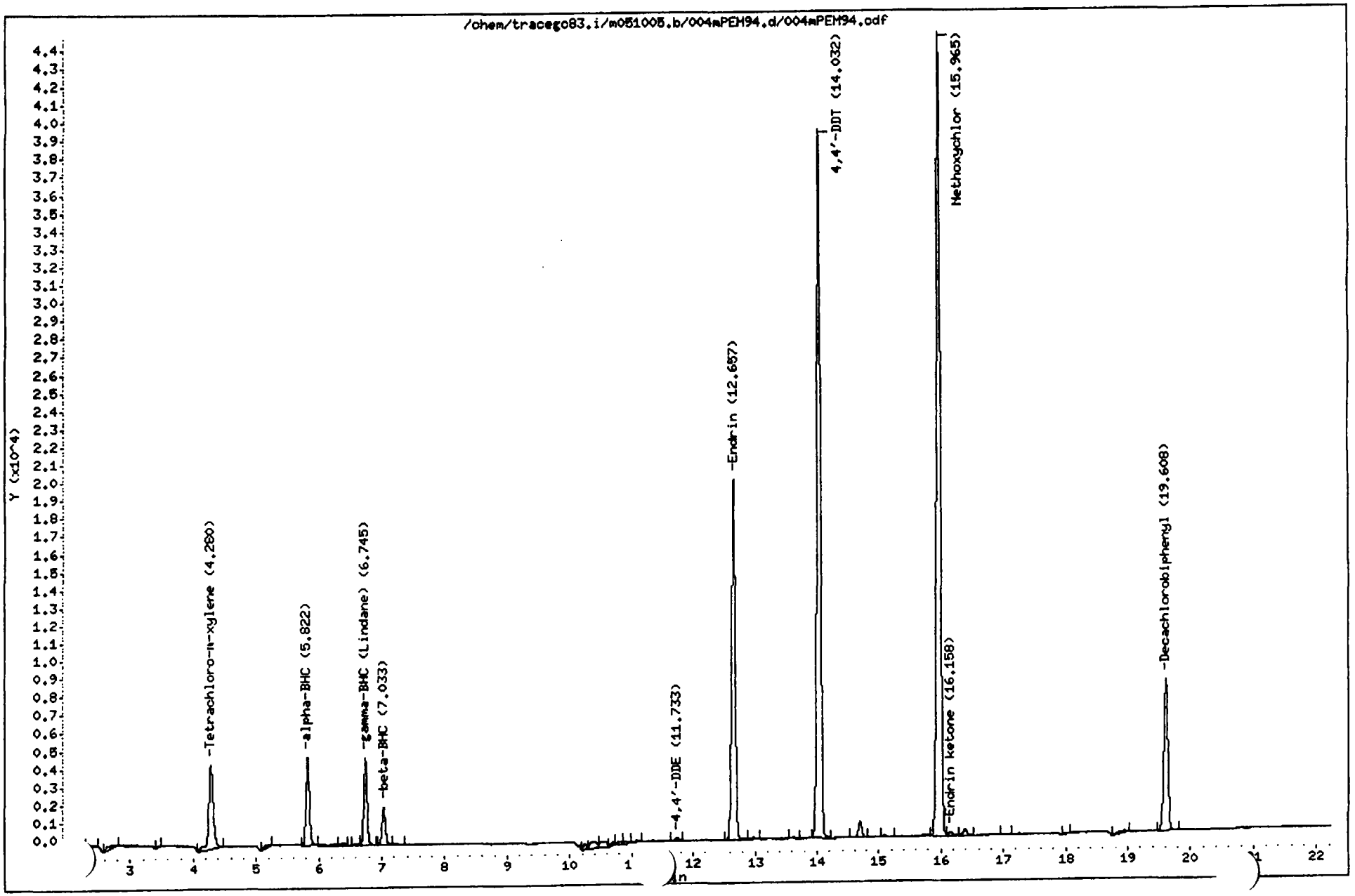
Data File: /chem/tracegc83.i/m051005.b/003mRESC94.d/003mRESC94.cdf
Injection Date: 05-OCT-2005 15:57
Instrument: tracegc83.i
Client Sample ID: RESC94



Data File: /chem/tracegc83.i/m051005.b/004mPEM94.d
Date : 05-OCT-2005 16:23
Client ID: PEM94
Sample Info: PEM94
Volume Injected (uL): 1.0
Column phase: olpest2

Instrument: tracegc83.i

Operator: 2512
Column diameter: 0.53



CompuChem Environmental Corporation

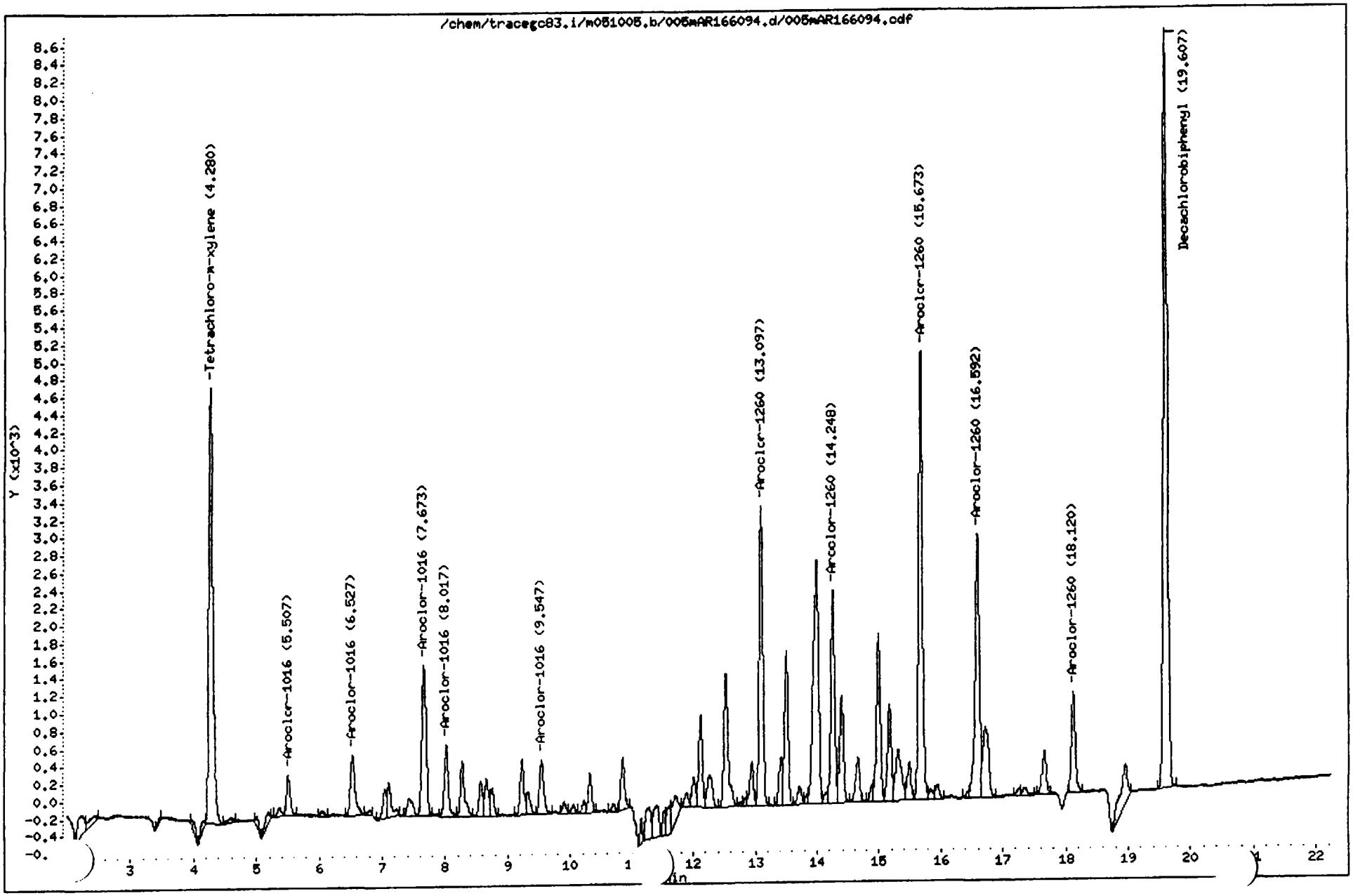
Lab Smp Id : PEM94 Client Smp Id : PEM94
Sample Type : PEM Sublist : PEM
Inj Date : 05-OCT-2005 16:23 Inst ID : TRACEGC83
Operator : 2512 Spike Sublist : PEM
Method : /chem/tracegc83.i/m051005.b/2ulOLM04_clpest2v6.m
Misc. Info : None

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CALC AMT ON-COLUMN (Ng)	%D	%D LIMIT	FLAGS
0.14			2109							
0.71			9196							
0.89			20901							
1.21			1409							
1.28			2721							
1.50			634							
1.76			234							
2.23			1739							
2.42			932							
2.74			1623							
3.49			142							
4.28	4.23	4.33	23528	1069850	Tetrachloro-m-xylene	0.020000	0.021992	10.0	25.0	
5.18			962							
5.82	5.77	5.87	18461	2064950	alpha-BHC	0.010000	0.008940	-10.6	25.0	
6.39			543							
6.61			286							
6.74	6.69	6.79	17884	1903750	gamma-BHC (Lindane)	0.010000	0.009394	-6.1	25.0	
7.03	6.98	7.08	8098	807050	beta-BHC	0.010000	0.010034	0.3	25.0	
7.23			225							
10.25			1082							
10.37			2603							
10.55			2485							
10.70			932							
10.83			1103							
10.91			1143							
11.09			794							
11.73	11.66	11.80	776	1770050	4,4'-DDE	0.000000	0.000439			J
12.66	12.58	12.72	81552	1510625	Endrin	0.050000	0.053986	8.0	25.0	
12.98			451							
13.62			402							
14.03	13.96	14.10	157116	1522700	4,4'-DDT	0.100000	0.103182	3.2	25.0	
14.70			4010							
15.11			386							
15.96	15.89	16.03	188565	823570	Methoxychlor	0.250000	0.228961	-8.4	25.0	
16.16	16.09	16.23	1011	1712350	Endrin ketone	0.000000	0.000590			J
16.39			1680							
17.05			235							
18.05			202							
18.96			1140							
19.61	19.51	19.71	38962	1977350	Decachlorobiphenyl	0.020000	0.019704	-1.5	25.0	

Data File: /chem/tracegc83.i/m051005.b/005mAR166094.d
Date : 05-OCT-2005 16:48
Client ID: AR166094
Sample Info: AR166094
Volume Injected (uL): 1.0
Column phase: olpest2

Instrument: tracegc83.i

Operator: 2512
Column diameter: 0.53



CompuChem Environmental Corporation

Lab Smp Id : AR166094 Client Smp Id : AR166094
Sample Type : INITIAL CAL: Level 2 Sublist : AR1660
Inj Date : 05-OCT-2005 16:48 Inst ID : TRACEGC83
Operator : 2512
Method : /chem/tracegc83.i/m051005.b/2ulOLM04_clpest2v6.m
Misc. Info : None

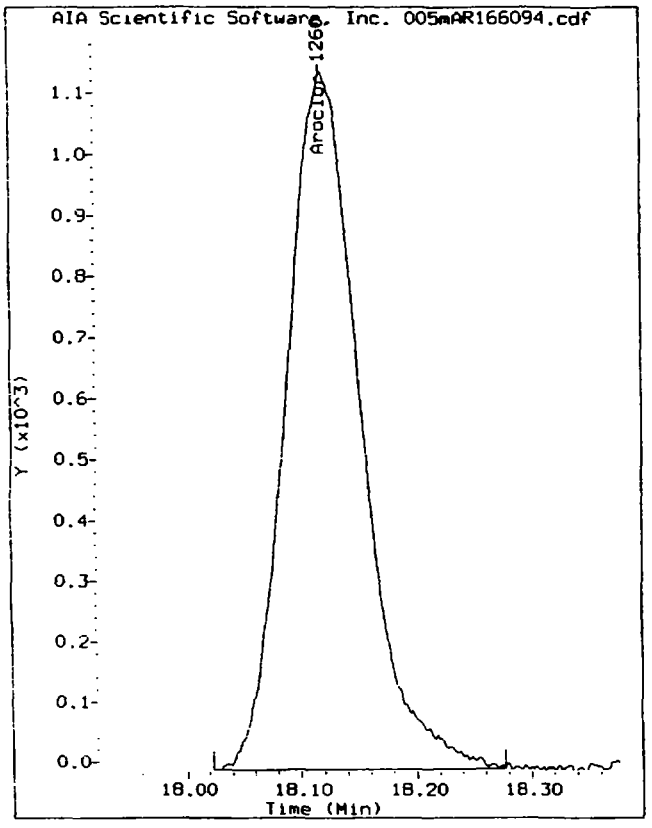
RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
0.14			2658					
0.71			18307					
0.88			3164					
1.28			3402					
1.50			933					
2.25			1749					
2.46			795					
3.49			196					
3.98			533					
4.16			483					
4.28	4.23	4.33	22151	1069850	Tetrachloro-m-xylene	0.020000		
4.58			377					
5.01			426					
5.19			780					
5.36			440					
5.51	5.44	5.58	2016	20160	Aroclor-1016 Peak 1	0.100000	20160	
6.05			282					
6.53	6.46	6.60	3768	37680	Aroclor-1016 Peak 2	0.100000	37680	
6.75			264					
7.04			1351					
7.12			1776					
7.43			1243					
7.67	7.60	7.74	8302	83020	Aroclor-1016 Peak 3	0.100000	83020	
8.02	7.95	8.09	3689	36890	Aroclor-1016 Peak 4	0.100000	36890	
8.27			2994					
8.57			1711					
8.67			1826					
8.76			1318					
9.23			2646					
9.33			1188					
9.55	9.48	9.62	2983	29820	Aroclor-1016 Peak 5	0.100000	29820	
9.90			533					
10.05			398					
10.23			489					
10.32			1795					
10.70			360					
10.85			2503					
11.15			714					
11.28			2327					
11.42			2397					
11.52			918					
11.60			1387					

CompuChem Environmental Corporation

L. Smp Id : AR166094 Client Smp Id : AR166094
Sample Type : INITIAL CAL: Level 2 Sublist : AR1660
Inj Date : 05-OCT-2005 16:48 Inst ID :
Operator : 2512
Method : /chem/tracegc83.i/m051005.b/2ulOLM04_clpest2v6.m
Misc. Info : None

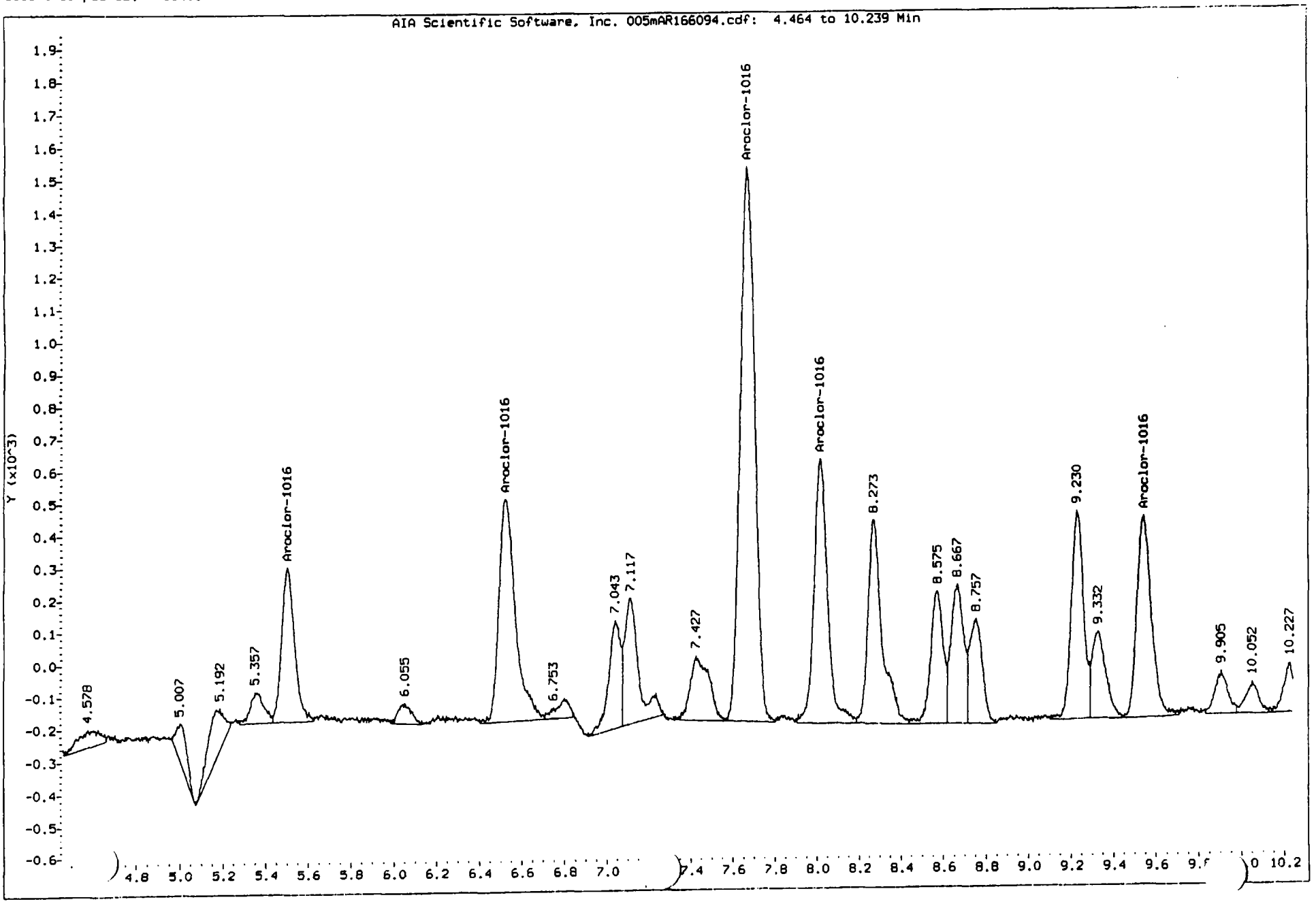
RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
11.72		2137					
11.89		731					
12.01		1373					
12.12		4368					
12.27		2256					
12.53		7305					
12.76		167					
12.86		274					
12.94		2100					
13.10	13.03 13.17	14073	140730	Aroclor-1260 Peak 1	0.100000	140730	
13.41		2046					
13.50		7570					
13.72		943					
13.85		359					
13.99		16787					
14.14		421					
14.25	14.18 14.32	10232	102310	Aroclor-1260 Peak 2	0.100000	102310	
14.38		5159					
14.65		2362					
14.89		669					
14.99		8347					
15.17		4808					
		3957					
		1977					
15.67	15.60 15.74	22524	225240	Aroclor-1260 Peak 3	0.100000	225240	
15.84		471					
15.94		750					
16.43		211					
16.59	16.52 16.66	14687	146870	Aroclor-1260 Peak 4	0.100000	146870	
16.71		5306					
17.25		328					
17.34		499					
17.65		2263					
18.12	18.05 18.19	5132	51310	Aroclor-1260 Peak 5	0.100000	51310	M
18.95		4133					
19.61	19.51 19.71	39789	1977350	Decachlorobiphenyl	0.040000		

Manually Integrated Peaks

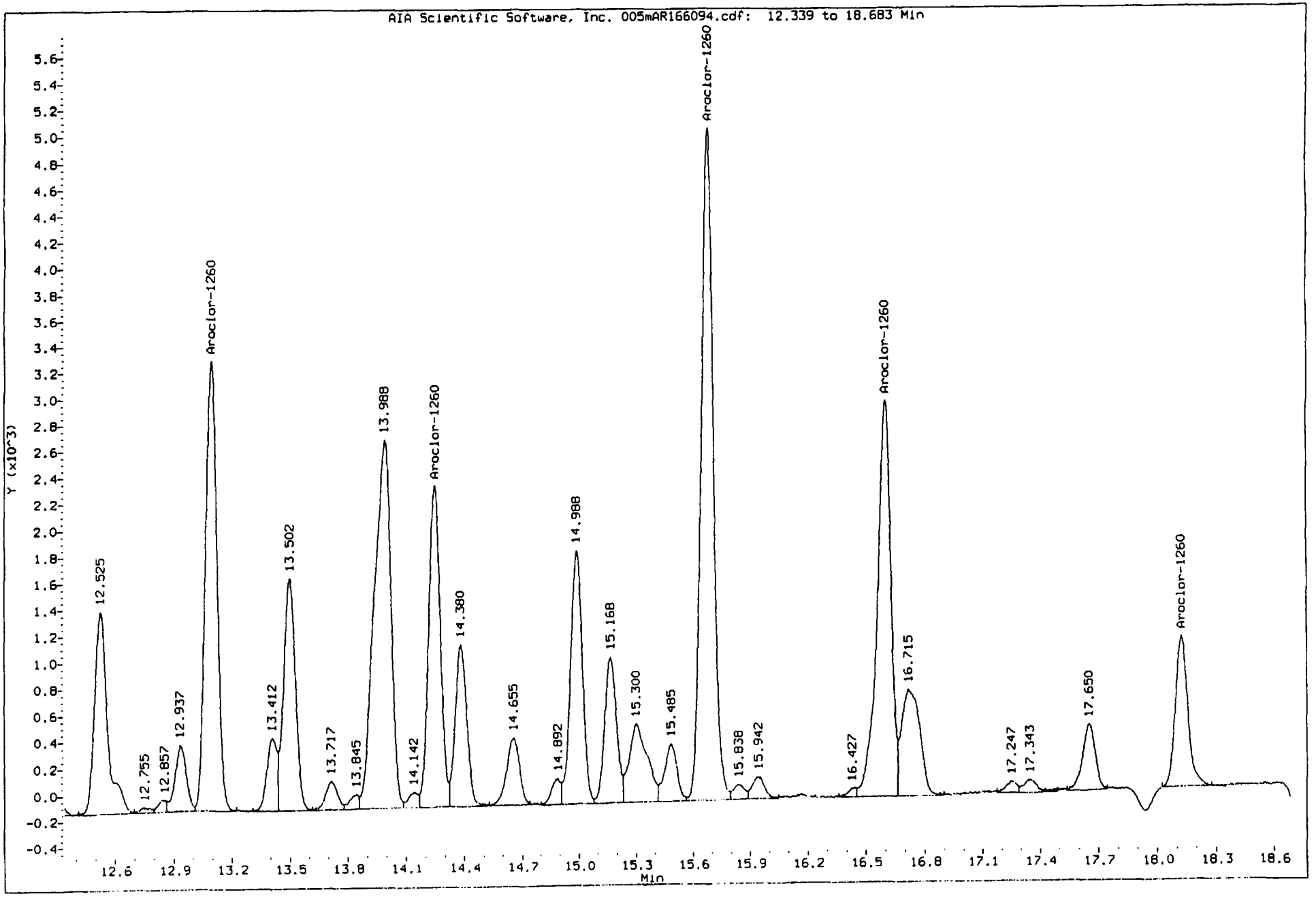


Start: 18.02 Stop: 18.28

Data File: /chem/tracegc83.i/m051005.b/005mAR166094.d/005mAR166094.cdf
Injection Date: 05-OCT-2005 16:48
Instrument: tracegc83.i
Client Sample ID: AR166094



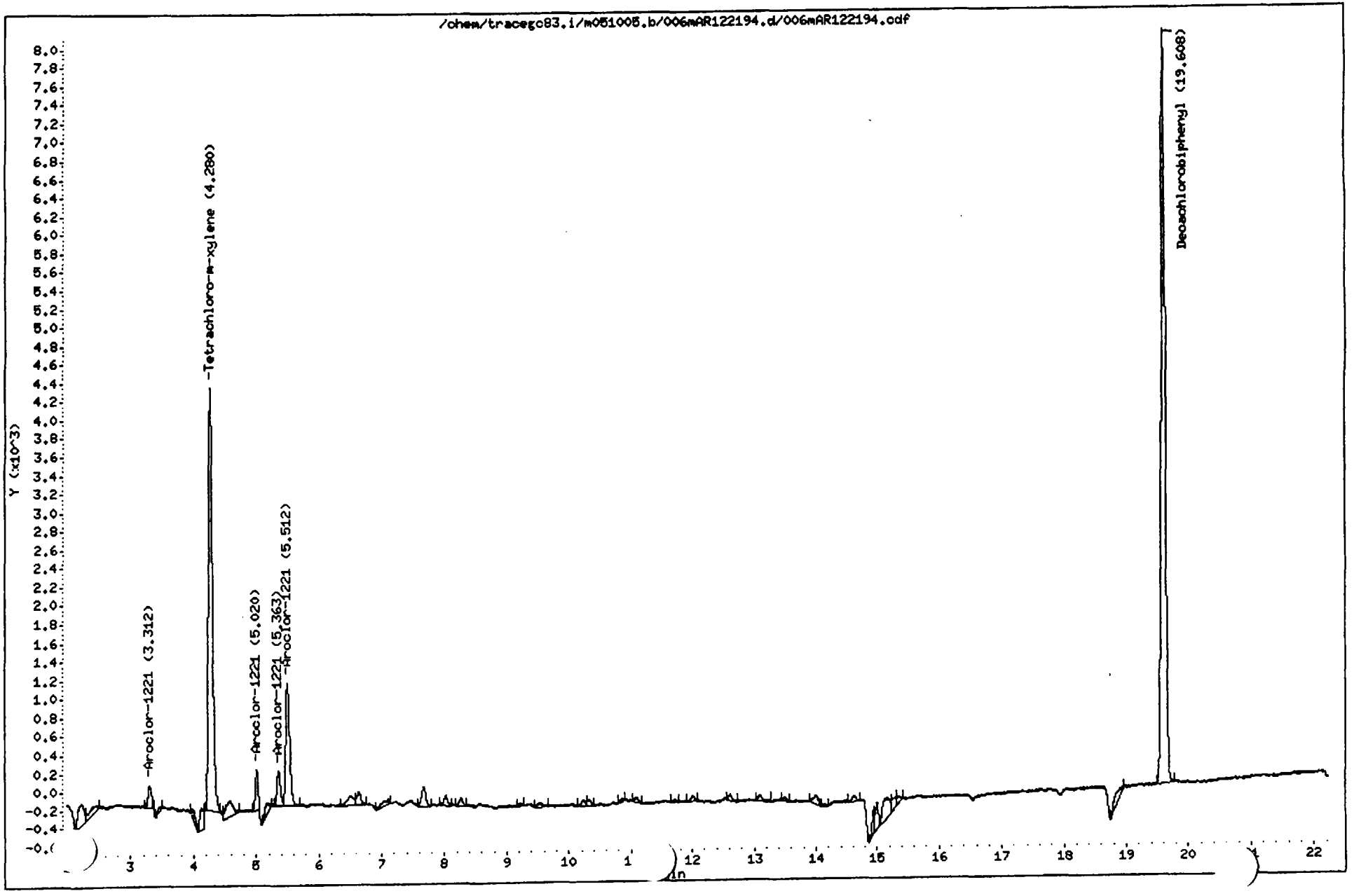
Data File: /chem/tracegc83.i/m051005.b/005mAR166094.d/005mAR166094.cdf
Injection Date: 05-OCT-2005 16:48
Instrument: tracegc83.i
Client Sample ID: AR166094



Data File: /chem/tracegc83.i/m051005.b/006mAR122194.d
Date : 05-OCT-2005 17:14
Client ID: AR122194
Sample Info: AR122194
Volume Injected (uL): 1.0
Column phase: clpest2

Instrument: tracegc83.i

Operator: 2612
Column diameter: 0.53



CompuChem Environmental Corporation

Lab Smp Id : AR122194 Client Smp Id : AR122194
Sample Type : INITIAL CAL: Level 2 Sublist : AR1221
Inj Date : 05-OCT-2005 17:14 Inst ID : TRACEGC83
Operator : 2512
Method : /chem/tracegc83.i/m051005.b/2ul0LM04_clpest2v6.m
Misc. Info : None

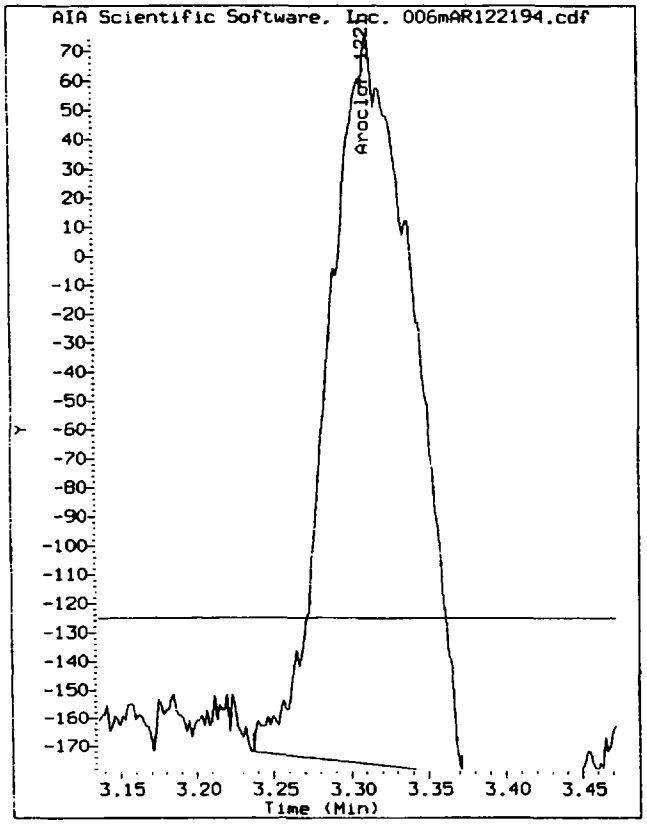
RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
0.13			5551					
0.72			25816					
0.90			10430					
1.17			739					
1.28			2614					
1.49			872					
2.24			1736					
2.46			653					
3.31	3.24	3.38	971	4850	Aroclor-1221 Peak 1	0.200000	4850.000	M
3.49			245					
3.98			488					
4.14			1060					
4.28	4.23	4.33	20290	1069850	Tetrachloro-m-xylene	0.020000		M
4.58			1435					
5.02	4.95	5.09	1370	6850	Aroclor-1221 Peak 2	0.200000	6850.000	M
5.18			691					
5.36	5.29	5.43	1566	7825	Aroclor-1221 Peak 3	0.200000	7825.000	
5.51	5.44	5.58	6030	30150	Aroclor-1221 Peak 4	0.200000	30150	
6.53			771					
6.64			710					
7.05			508					
7.67			1090					
8.02			548					
8.27			421					
9.22			141					
9.53			301					
10.23			305					
10.33			305					
10.85			170					
11.09			263					
11.71			137					
12.01			266					
12.62			282					
13.10			328					
13.51			225					
14.00			611					
14.12			127					
14.62			328					
14.95			739					
15.01			1043					
15.15			1666					
15.29			617					

CompuChem Environmental Corporation

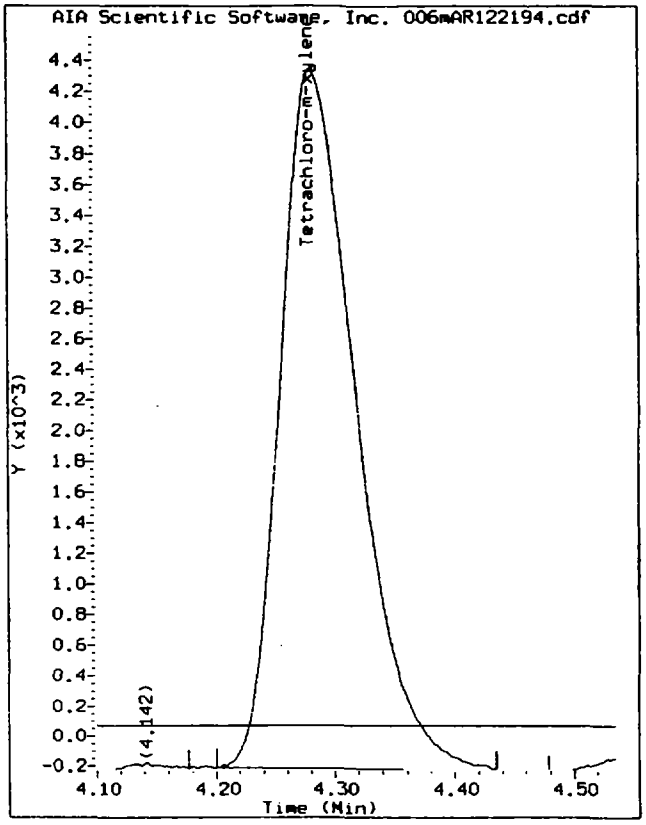
Lab Smp Id : AR122194 Client Smp Id : AR122194
Sample Type : INITIAL CAL: Level 2 Sublist : AR1221
Inj Date : 05-OCT-2005 17:14 Inst ID :
Operator : 2512
Method : /chem/tracegc83.i/m051005.b/2ulOLM04_clpest2v6.m
Misc. Info : None

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
15.36		401					
18.95		1003					
19.61	19.51 19.71	37156	1977350	Decachlorobiphenyl	0.040000		

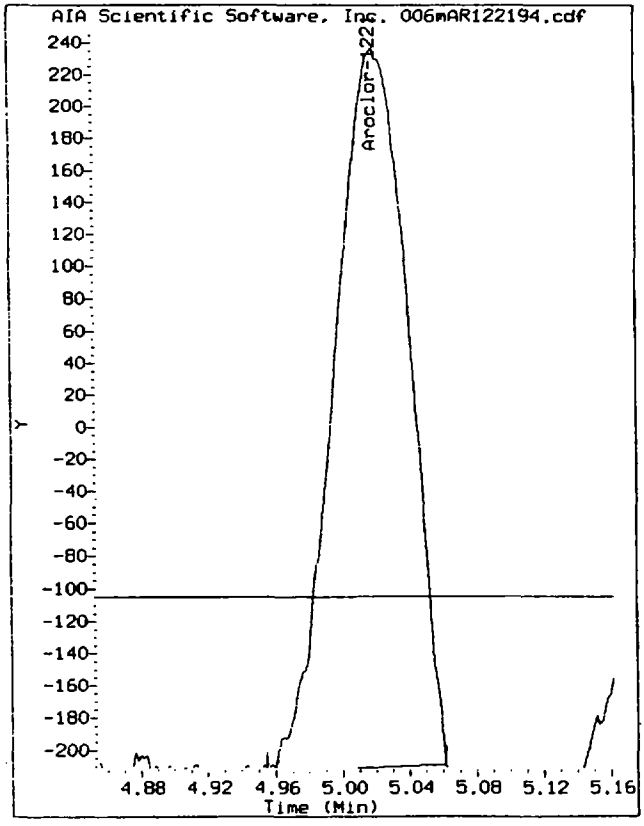
Manually Integrated Peaks



Start: 3.24 Stop: 3.37

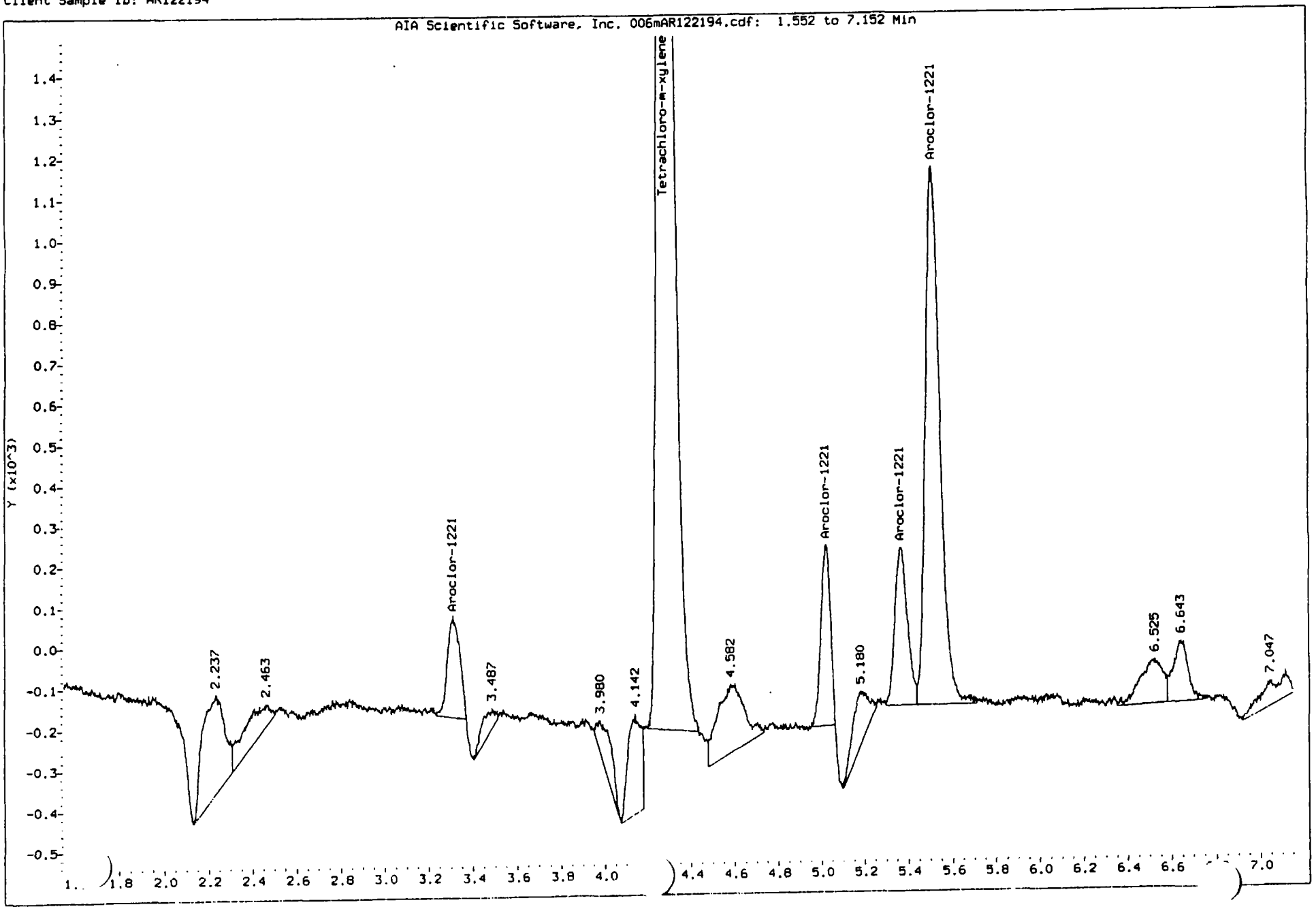


Start: 4.20 Stop: 4.43



Start: 4.96 Stop: 5.06

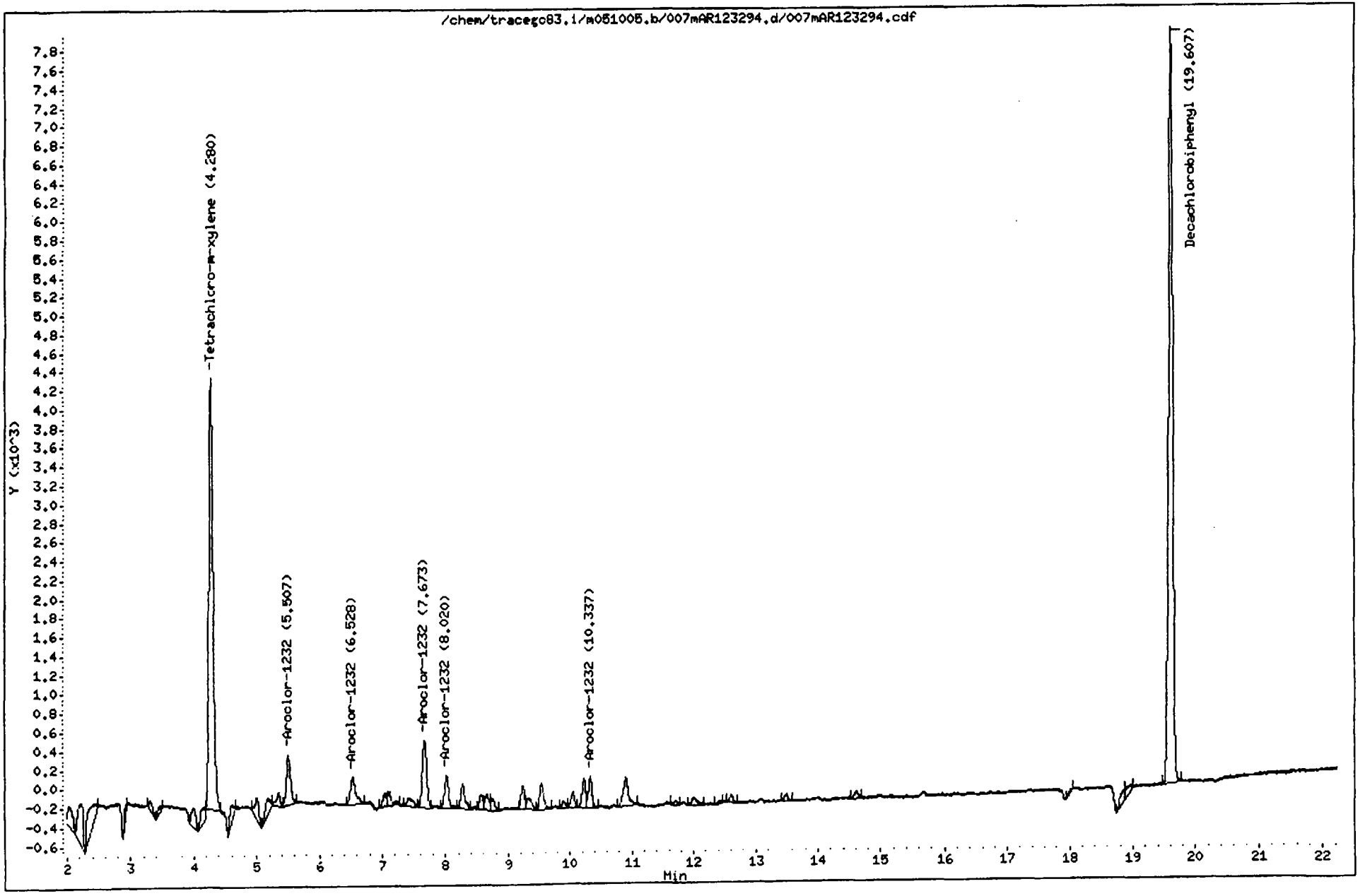
Data File: /chem/tracegc83.i/m051005.b/006mAR122194.d/006mAR122194.cdf
Injection Date: 05-OCT-2005 17:14
Instrument: tracegc83.i
Client Sample ID: AR122194



Data File: /chem/tracegc83.i/m051005.b/007mAR123294.d
Date : 05-OCT-2005 17:39
Client ID: AR123294
Sample Info: AR123294
Volume Injected (uL): 1.0
Column phase: olpest2

Instrument: tracegc83.i

Operator: 2512
Column diameter: 0.53



CompuChem Environmental Corporation

L Smp Id : AR123294 Client Smp Id : AR123294
S le Type : INITIAL CAL: Level 2 Sublist : AR1232
Inj Date : 05-OCT-2005 17:39 Inst ID : TRACEGC83
Operator : 2512
Method : /chem/tracegc83.i/m051005.b/2ulOLM04_clpest2v6.m
Misc. Info : None

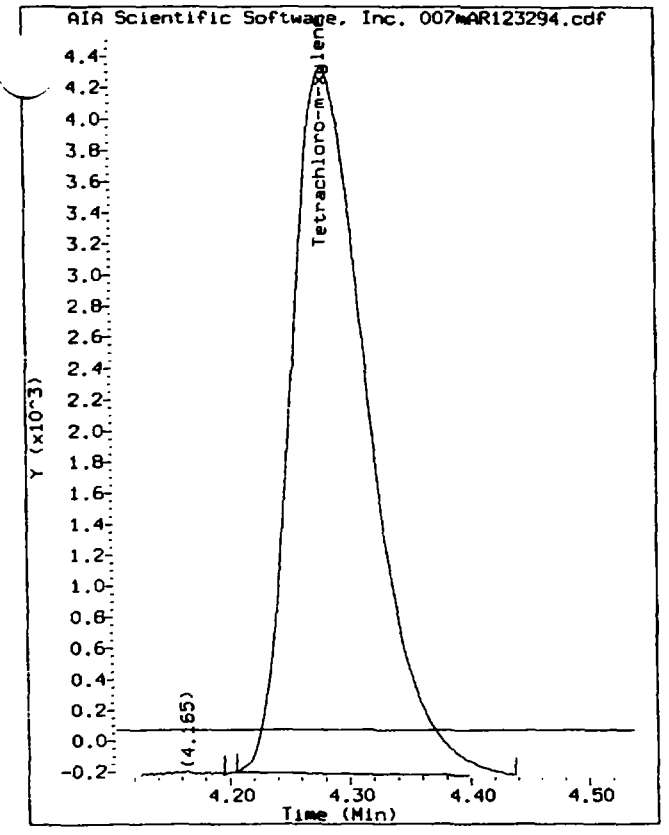
RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
0.15			2094					
0.71			13088					
0.89			9400					
1.20			832					
1.29			2714					
1.49			1010					
1.85			133					
1.93			743					
2.03			1187					
2.23			2436					
2.41			2396					
2.94			335					
3.31			450					
3.48			298					
4.00			955					
4.17			834					
4.28	4.23	4.33	20214	1069850	Tetrachloro-m-xylene	0.020000		M
4.61			787					
5.01			945					
5.18			1078					
5.36			601					
5.51	5.44	5.58	2449	24490	Aroclor-1232 Peak 1	0.100000	24490	
	6.46	6.60	1710	17100	Aroclor-1232 Peak 2	0.100000	17100	
			550					
7.12			735					
7.43			568					
7.67	7.60	7.74	3503	35020	Aroclor-1232 Peak 3	0.100000	35020	
8.02	7.95	8.09	1594	15940	Aroclor-1232 Peak 4	0.100000	15940	
8.27			1217					
8.57			628					
8.67			736					
8.76			498					
9.24			1016					
9.34			658					
9.54			1338					
9.91			343					
10.05			738					
10.23			1269					
10.34	10.27	10.41	1358	13570	Aroclor-1232 Peak 5	0.100000	13570	
10.90			1876					
11.71			204					
12.02			598					

CompuChem Environmental Corporation

Lab Smp Id : AR123294 Client Smp Id : AR123294
Sample Type : INITIAL CAL: Level 2 Sublist : AR1232
Inj Date : 05-OCT-2005 17:39 Inst ID :
Operator : 2512
Method : /chem/tracegc83.i/m051005.b/2ulOLM04_clpest2v6.m
Misc. Info : None

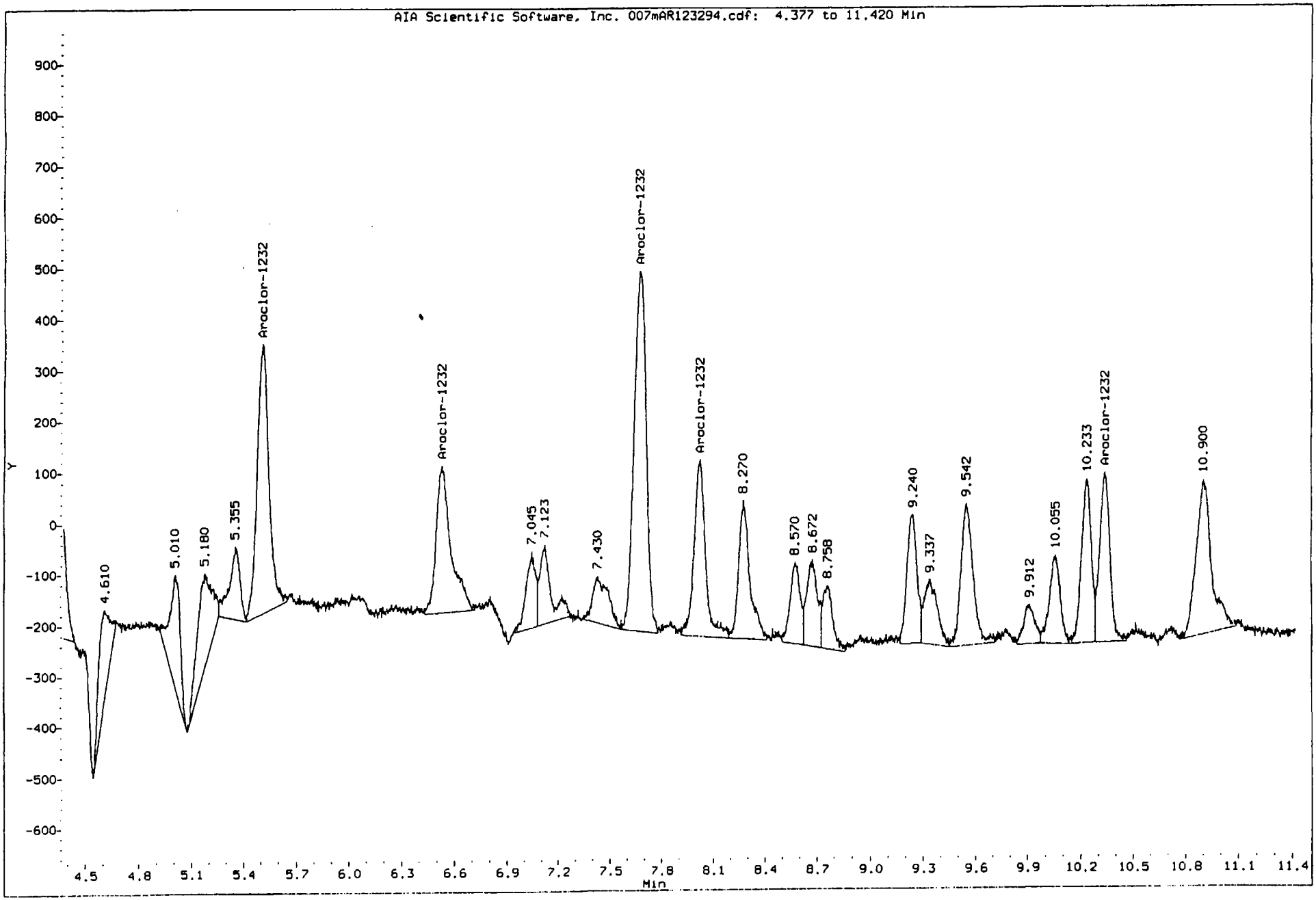
RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
12.41		138					
12.61		356					
13.50		293					
14.61		333					
18.05		193					
18.86		659					
18.97		676					
19.61	19.51 19.71	36743	1977350	Decachlorobiphenyl	0.040000		

Manually Integrated Peaks



Start: 4.21 Stop: 4.44

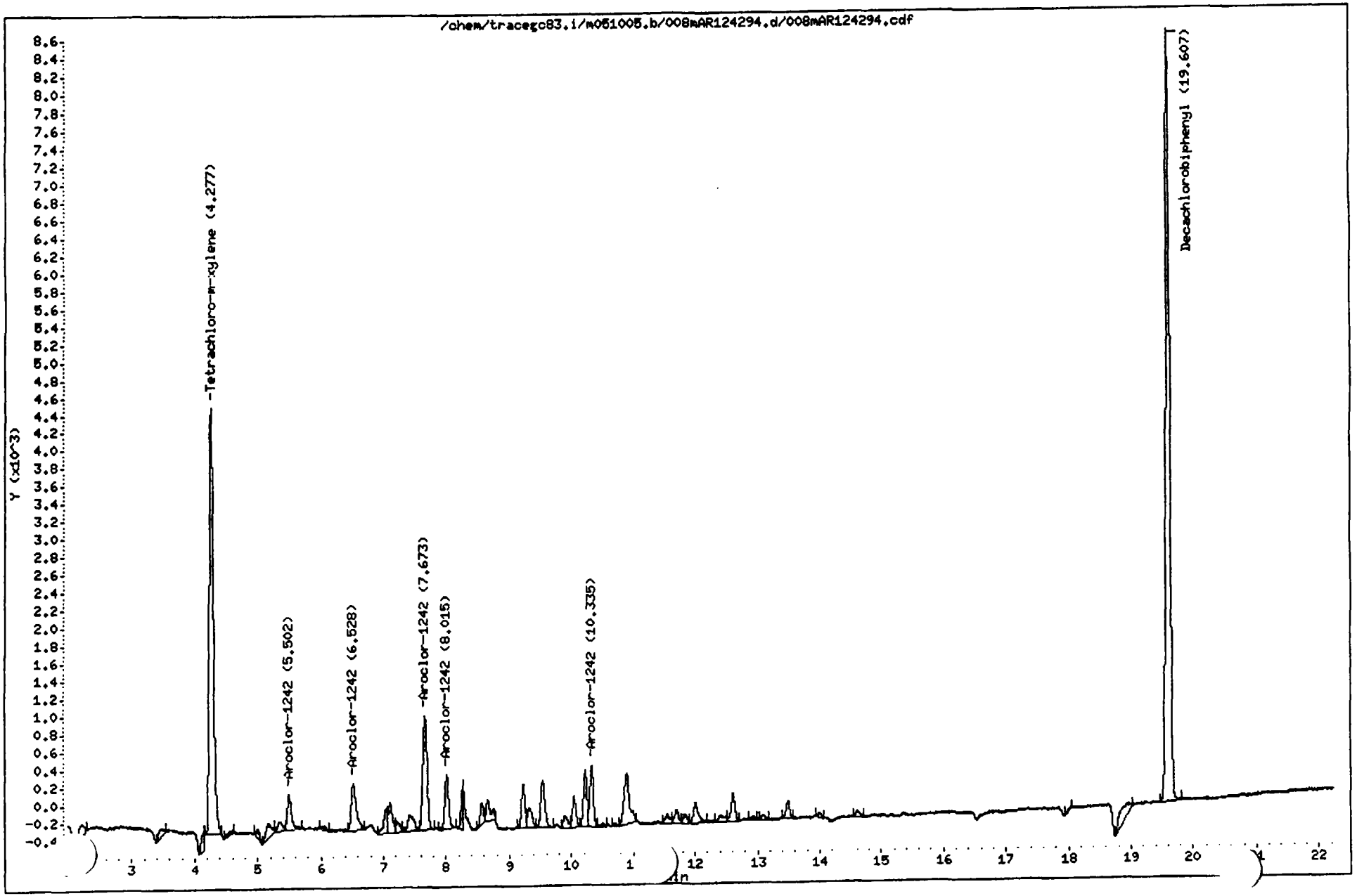
Data File: /chem/tracegc83.i/m051005.b/007mAR123294.d/007mAR123294.cdf
Injection Date: 05-OCT-2005 17:39
Instrument: tracegc83.i
Client Sample ID: AR123294



Data File: /chem/tracegc83.i/m051005.b/008mAR124294.d
Date : 05-OCT-2005 18:05
Client ID: AR124294
Sample Info: AR124294
Volume Injected (uL): 1.0
Column phase: dlpest2

Instrument: tracegc83.i

Operator: 2512
Column diameter: 0.53



CompuChem Environmental Corporation

Lab Smp Id : AR124294 Client Smp Id : AR124294
Sample Type : INITIAL CAL: Level 2 Sublist : AR1242
Inj Date : 05-OCT-2005 18:05 Inst ID : TRACEGC83
Operator : 2512
Method : /chem/tracegc83.i/m051005.b/2ulOLM04_clpest2v6.m
Misc. Info : None

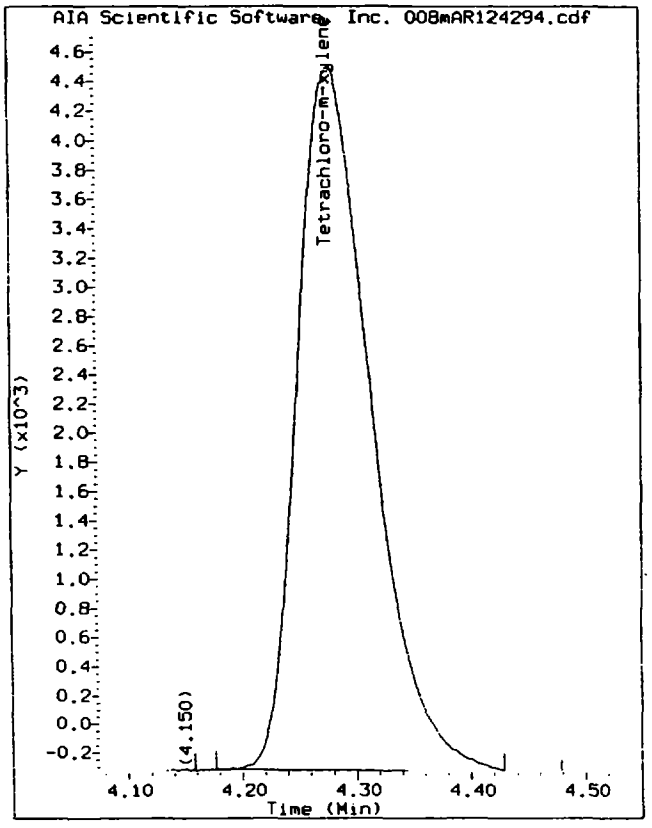
RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
0.13			2167					
0.50			189					
0.71			10879					
0.86			1765					
0.89			6044					
1.18			600					
1.27			2422					
1.49			421					
2.24			1249					
3.51			470					
4.15			712					
4.28	4.23	4.33	21470	1069850	Tetrachloro-m-xylene	0.020000		M
4.59			201					
5.00			379					
5.18			1009					
5.36			571					
5.50	5.43	5.57	1919	19180	Aroclor-1242 Peak 1	0.100000	19180	
6.05			250					
6.53	6.46	6.60	2941	29400	Aroclor-1242 Peak 2	0.100000	29400	
7.04			1187					
7.11			1500					
7.22			571					
7.43			1366					
7.67	7.60	7.74	6346	63460	Aroclor-1242 Peak 3	0.100000	63460	
8.02	7.95	8.09	2727	27260	Aroclor-1242 Peak 4	0.100000	27260	
8.27			879					
8.57			872					
8.66			1186					
9.23			2008					
9.33			1155					
9.54			2566					
9.90			640					
10.05			1452					
10.23			2544					
10.34	10.27	10.41	2807	28070	Aroclor-1242 Peak 5	0.100000	28070	
10.51			168					
10.69			140					
10.90			3702					
11.55			504					
11.71			657					
11.84			441					
12.01			1288					

CompuChem Environmental Corporation

L Smp Id : AR124294 Client Smp Id : AR124294
Sample Type : INITIAL CAL: Level 2 Sublist : AR1242
Inj Date : 05-OCT-2005 18:05 Inst ID :
Operator : 2512
Method : /chem/tracegc83.i/m051005.b/2ulOLM04_clpest2v6.m
Misc. Info : None

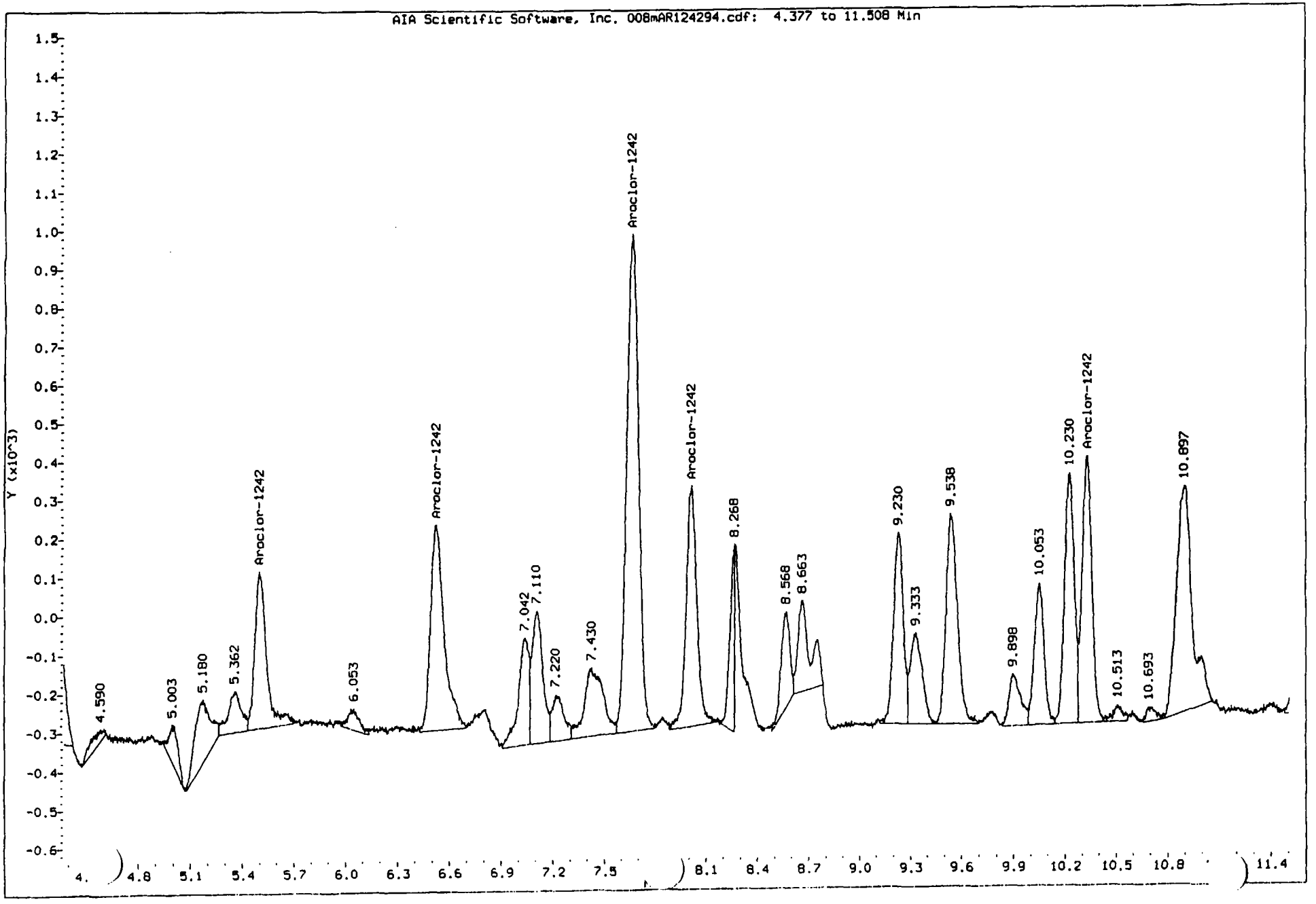
RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
12.42		476					
12.61		1386					
12.93		163					
13.09		271					
13.49		870					
13.99		238					
14.61		341					
18.04		174					
18.97		1925					
19.61	19.51 19.71	39718	1977350	Decachlorobiphenyl	0.040000		

Manually Integrated Peaks



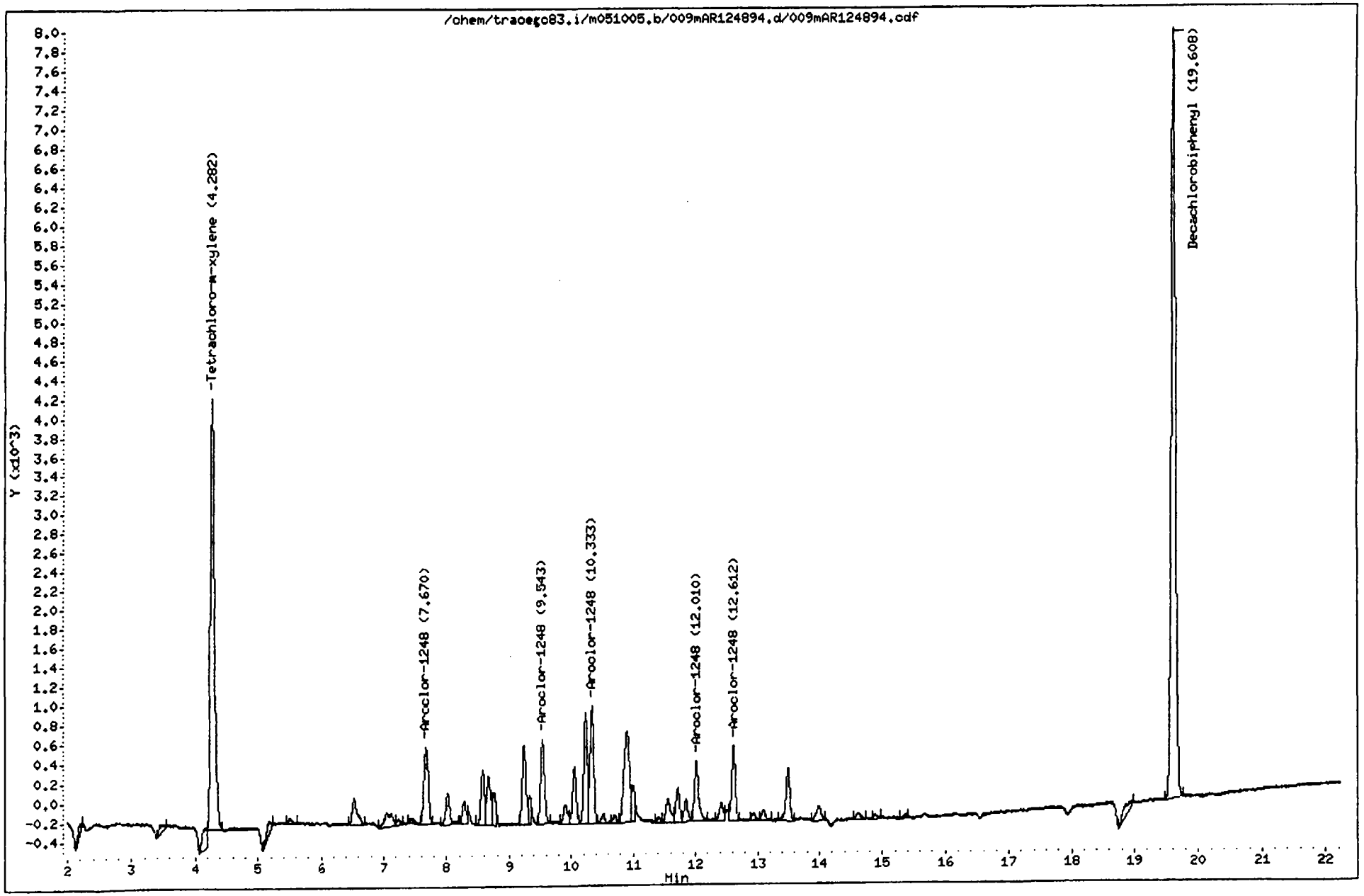
Start: 4.18 Stop: 4.43

Data File: /chem/tracegc83.i/m051005.b/008mAR124294.d/008mAR124294.cdf
Injection Date: 05-OCT-2005 18:05
Instrument: tracegc83.i
Client Sample ID: AR124294



Data File: /chem/tracegc83.i/m051005.b/009mAR124894.d
Date : 05-OCT-2005 18:30
Client ID: AR124894
Sample Info: AR124894
Volume Injected (uL): 1.0
Column phase: olpest2

Instrument: tracegc83.i
Operator: 2512
Column diameter: 0.53



CompuChem Environmental Corporation

L Smp Id : AR124894 Client Smp Id : AR124894
Sample Type : INITIAL CAL: Level 2 Sublist : AR1248
Inj Date : 05-OCT-2005 18:30 Inst ID : TRACEGC83
Operator : 2512
Method : /chem/tracegc83.i/m051005.b/2ulOLM04_clpest2v6.m
Misc. Info : None

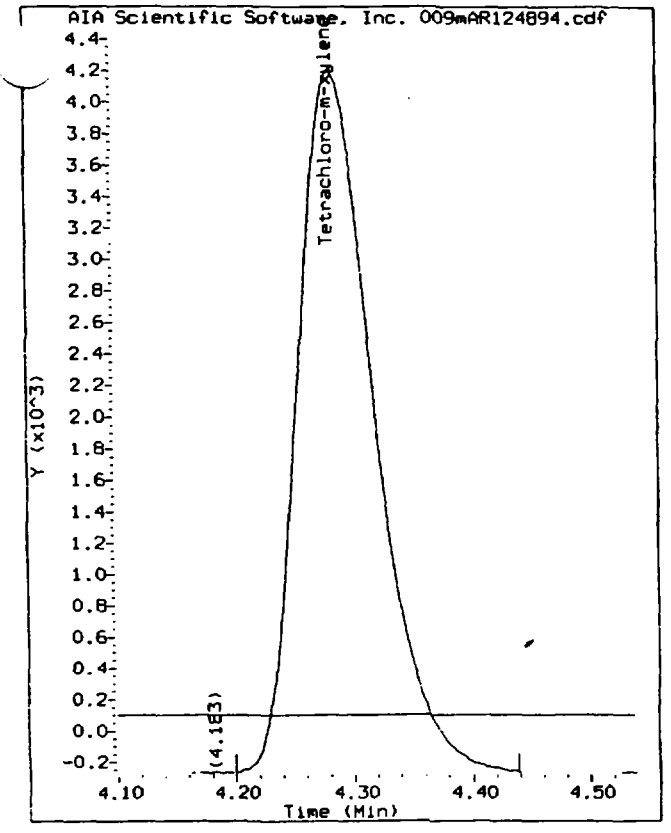
RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
0.14			2468					
0.71			23372					
0.85			2800					
1.20			138					
1.28			1660					
1.49			1346					
2.21			350					
3.49			533					
4.18			1222					
4.28	4.23	4.33	20049	1069850	Tetrachloro-m-xylene	0.020000		M
5.17			726					
5.50			251					
6.52			1524					
7.04			1311					
7.24			228					
7.43			331					
7.67	7.60	7.74	3891	38910	Aroclor-1248 Peak 1	0.100000	38910	
8.02			1524					
8.28			926					
8.57			2247					
8.66			2122					
8.75			1266					
			3296					
			935					
9.54	9.47	9.61	3903	39020	Aroclor-1248 Peak 2	0.100000	39020	
9.90			933					
10.05			2306					
10.23			4558					
10.33	10.26	10.40	4880	48790	Aroclor-1248 Peak 3	0.100000	48790	
10.51			431					
10.70			326					
10.90			5832					
11.00			1368					
11.40			251					
11.55			1292					
11.71			1431					
11.85			982					
12.01	11.94	12.08	2917	29160	Aroclor-1248 Peak 4	0.100000	29160	
12.42			848					
12.61	12.54	12.68	3202	32020	Aroclor-1248 Peak 5	0.100000	32020	
12.94			336					
13.10			538					

CompuChem Environmental Corporation

Lab Smp Id : AR124894 Client Smp Id : AR124894
Sample Type : INITIAL CAL: Level 2 Sublist : AR1248
Inj Date : 05-OCT-2005 18:30 Inst ID :
Operator : 2512
Method : /chem/tracegc83.i/m051005.b/2ulOLM04_clpest2v6.m
Misc. Info : None

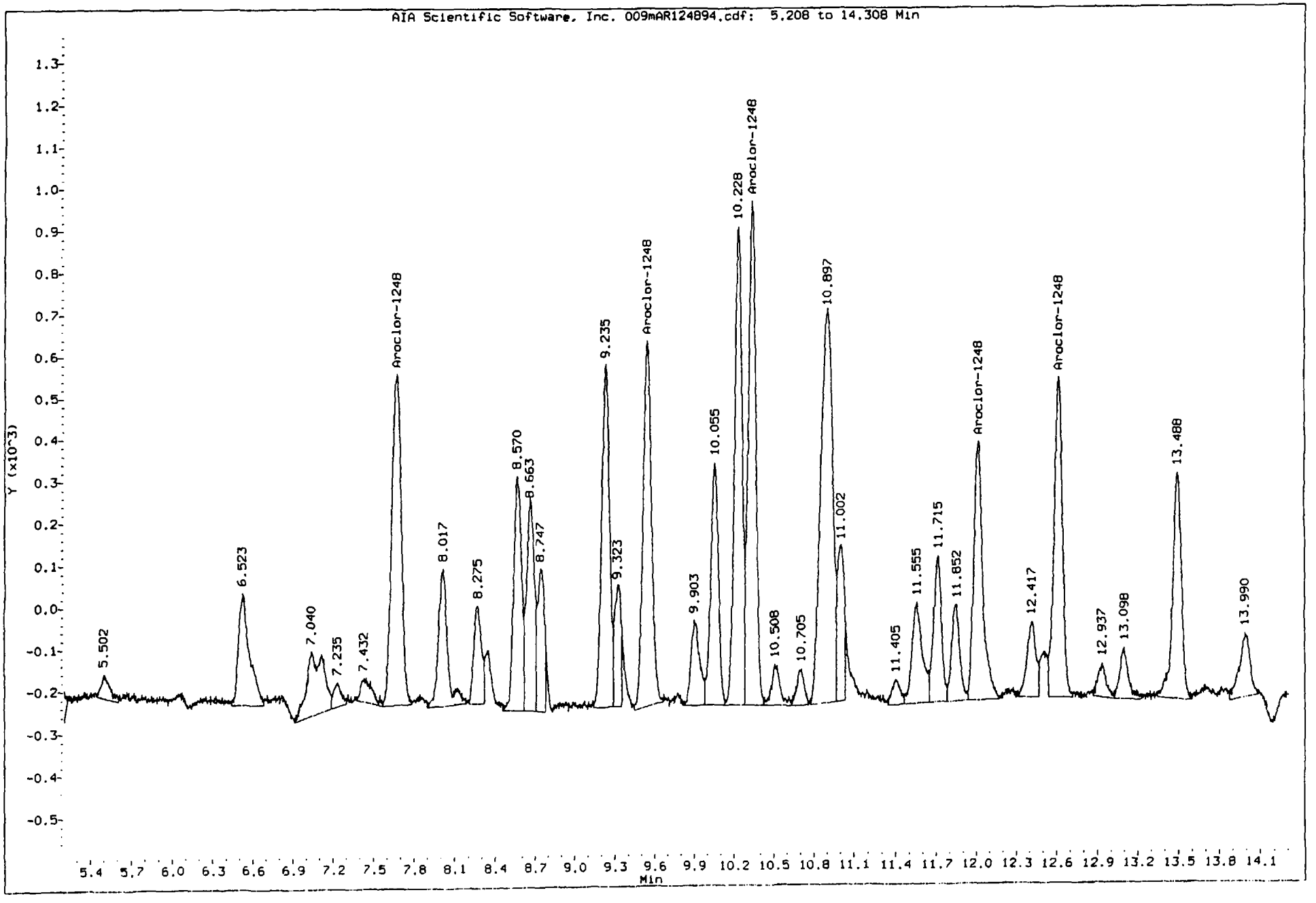
RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
13.49		2409					
13.99		822					
14.61		365					
14.88		157					
15.37		168					
18.96		957					
19.61	19.51 19.71	36630	1977350	Decachlorobiphenyl	0.040000		

Manually Integrated Peaks



Start: 4.20 Stop: 4.44

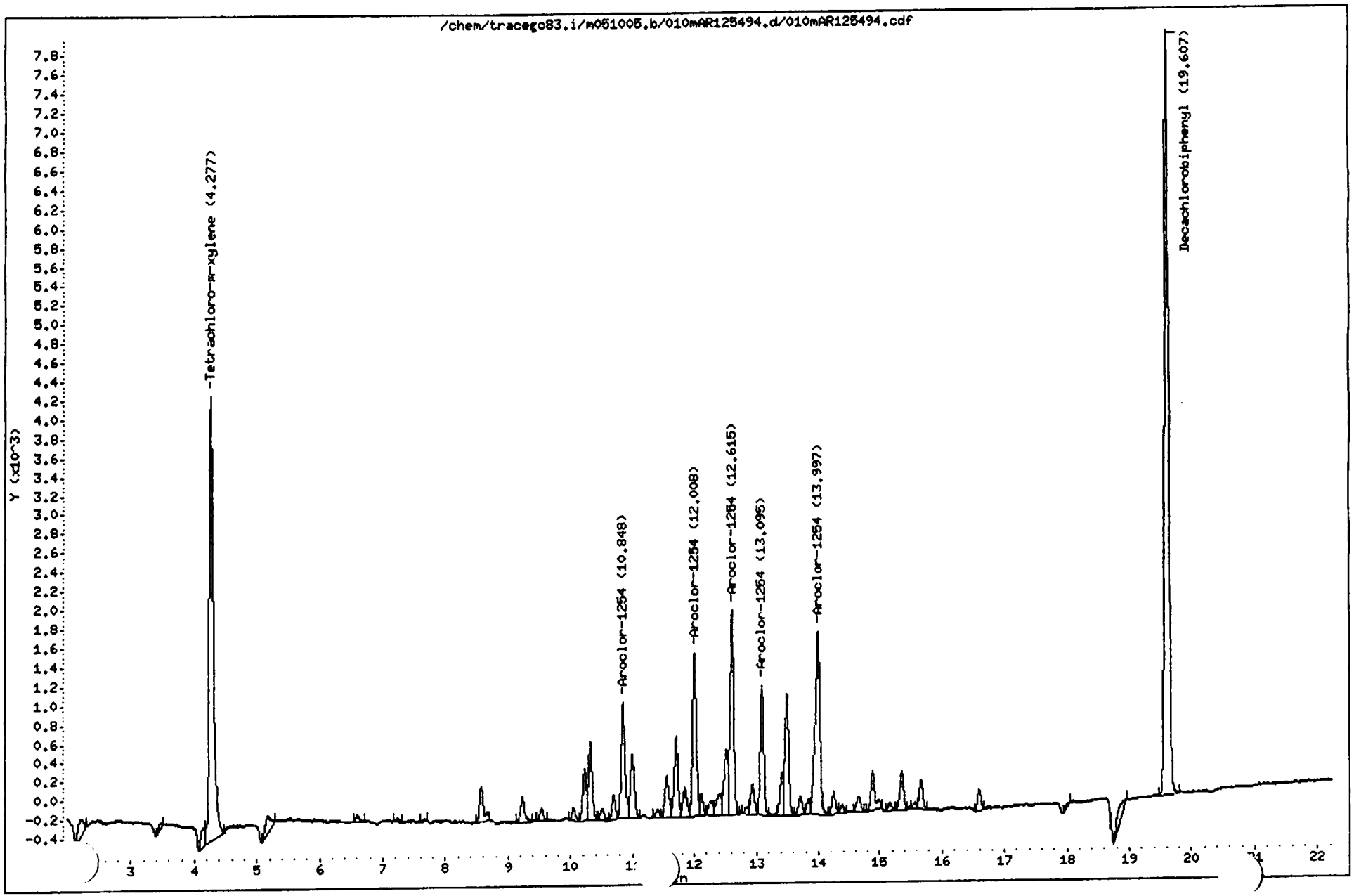
Data File: /chem/tracegc83.i/m051005.b/009mAR124894.d/009mAR124894.cdf
Injection Date: 05-OCT-2005 18:30
Instrument: tracegc83.i
Client Sample ID: AR124894



Data File: /chem/tracego83.i/m051005.b/010mAR125494.d
Date : 05-OCT-2005 18:56
Client ID: AR125494
Sample Info: AR125494
Volume Injected (uL): 1.0
Column phase: olpest2

Instrument: tracego83.i

Operator: 2512
Column diameter: 0.53



CompuChem Environmental Corporation

Lab Smp Id : AR125494 Client Smp Id : AR125494
Sample Type : INITIAL CAL: Level 2 Sublist : AR1254
Inj Date : 05-OCT-2005 18:56 Inst ID : TRACEGC83
Operator : 2512
Method : /chem/tracegc83.i/m051005.b/2ulOLM04_clpest2v6.m
Misc. Info : None

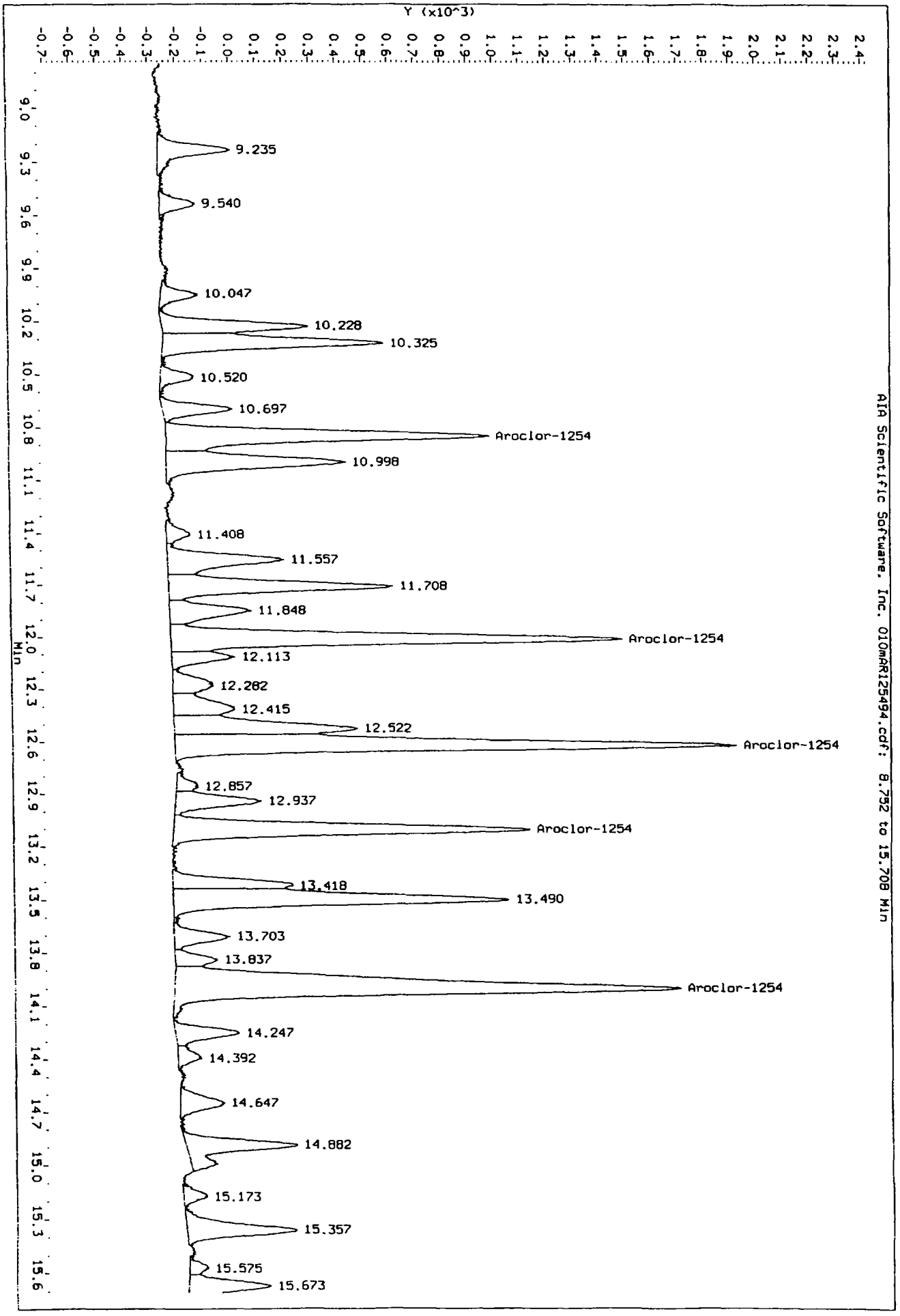
RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
0.14			2497					
0.71			8908					
0.89			10136					
1.18			665					
1.28			2969					
1.51			997					
2.25			1135					
3.48			243					
4.17			969					
4.28	4.23	4.33	22198	1069850	Tetrachloro-m-xylene	0.020000		
5.19			1246					
6.60			322					
7.23			192					
7.66			127					
8.57			1733					
9.23			1247					
9.54			546					
10.05			561					
10.23			2074					
10.32			3415					
10.52			517					
10.70			1011					
10.85	10.78	10.92	5259	52590	Aroclor-1254 Peak 1	0.100000	52590	
11.00			3154					
11.41			384					
11.56			2107					
11.71			3484					
11.85			1436					
12.01	11.94	12.08	7071	70700	Aroclor-1254 Peak 2	0.100000	70700	
12.11			850					
12.28			796					
12.41			1256					
12.52			3056					
12.62	12.55	12.69	8881	88810	Aroclor-1254 Peak 3	0.100000	88810	
12.86			317					
12.94			1362					
13.10	13.03	13.17	5556	55550	Aroclor-1254 Peak 4	0.100000	55550	
13.42			1602					
13.49			5600					
13.70			862					
13.84			606					
14.00	13.93	14.07	10545	105450	Aroclor-1254 Peak 5	0.100000	105450	

C-0/6/14

CompuChem Environmental Corporation

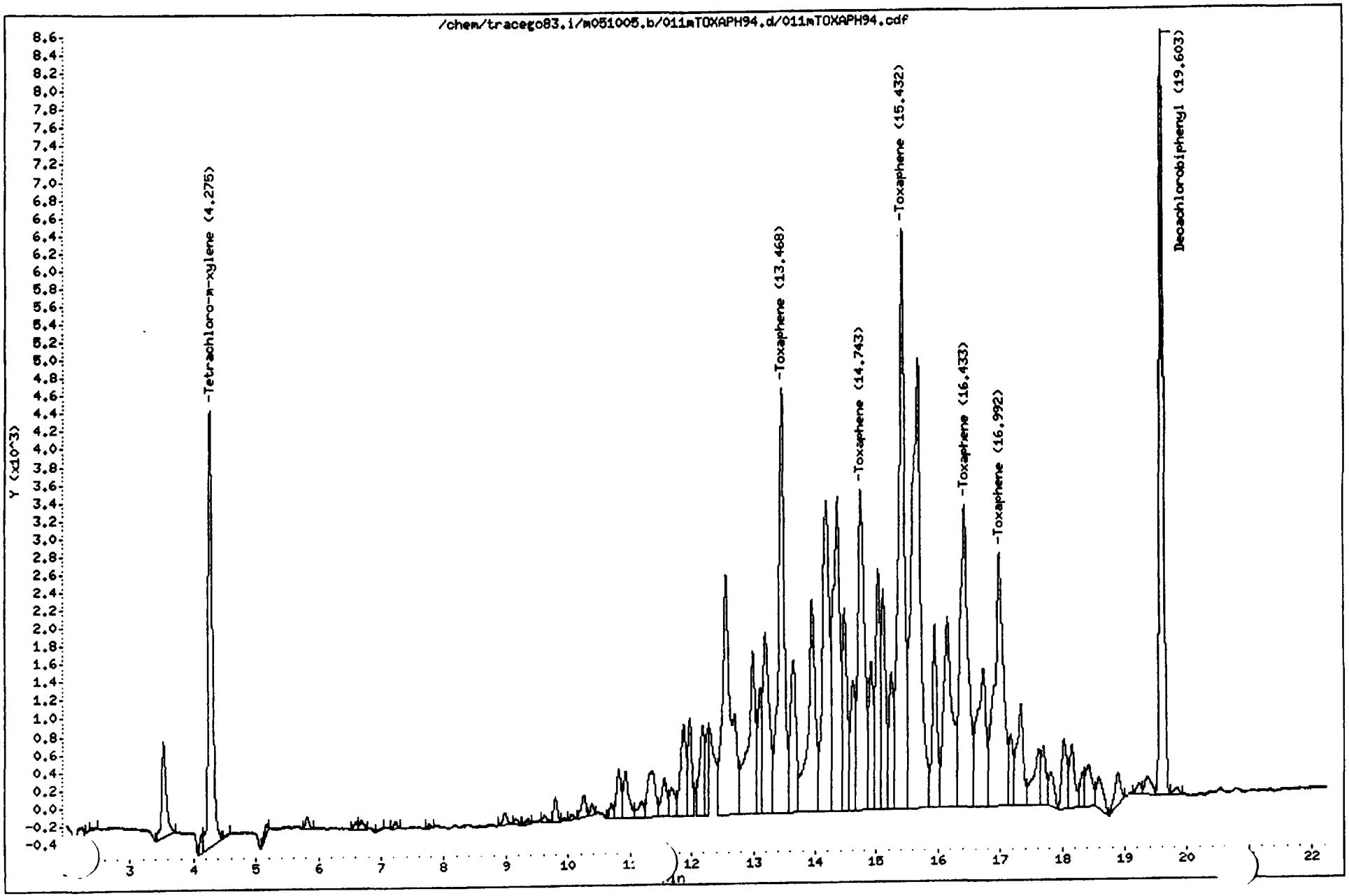
Lab Smp Id : AR125494 Client Smp Id : AR125494
Sample Type : INITIAL CAL: Level 2 Sublist : AR1254
Inj Date : 05-OCT-2005 18:56 Inst ID :
Operator : 2512
Method : /chem/tracegc83.i/m051005.b/2ulOLM04_clpest2v6.m
Misc. Info : None

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
14.25		1007					
14.39		387					
14.65		849					
14.88		2070					
15.17		335					
15.36		1927					
15.57		257					
15.67		1313					
16.59		889					
18.03		207					
18.96		1478					
19.61	19.51 19.71	36808	1977350	Decachlorobiphenyl	0.040000		


Data File: /chem/tracegc83.i/m051005.b/010mAR125494.d/010mAR125494.cdf
Injection Date: 05-OCT-2005 18:56
Instrument: tracegc83.i
Client Sample ID: AR125494
Y (x10^3)
Min
AIA Scientific Software, Inc. 010mAR125494.cdf: 8.752 to 15.708 Min
9.235
9.540
10.047
10.228
10.325
10.520
10.697
Aroclor-1254
10.998
11.408
11.557
11.708
11.848
Aroclor-1254
12.113
12.282
12.415
12.522
Aroclor-1254
12.857
12.937
Aroclor-1254
13.418
13.490
13.703
13.837
Aroclor-1254
14.247
14.392
14.647
14.882
15.173
15.357
15.575
15.673

Data File: /chem/tracegc83.i/m051005.b/011mTOXAPH94.d
Date : 05-OCT-2005 19:21
Client ID: TOXAPH94
Sample Info: TOXAPH94
Volume Injected (uL): 1.0
Column phase: olpest2

Instrument: tracegc83.i
Operator: 2512
Column diameter: 0.53



CompuChem Environmental Corporation

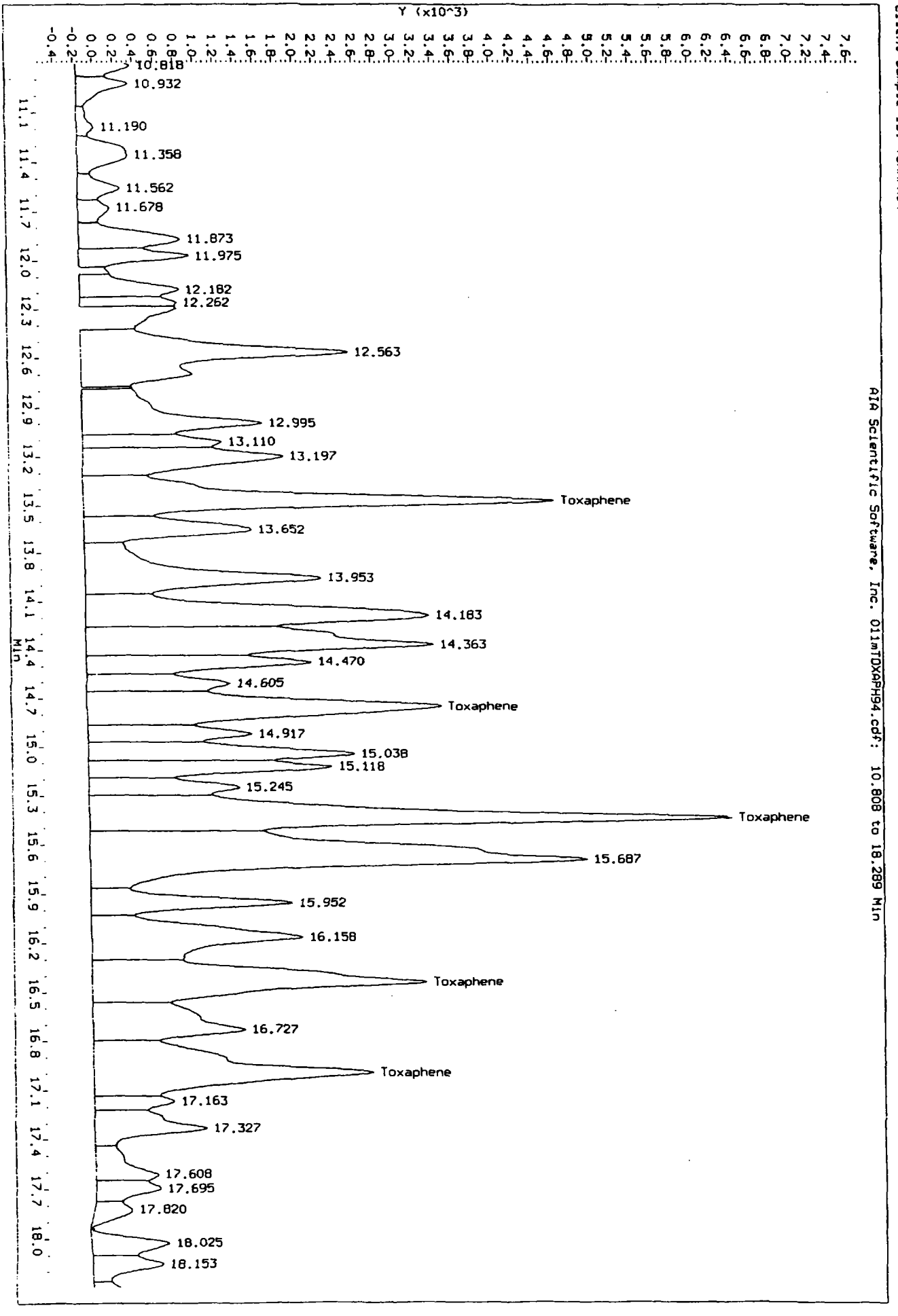
Lab Smp Id : TOXAPH94 Client Smp Id : TOXAPH94
Sample Type : INITIAL CAL: Level 2 Sublist : TOXAPH
Inj Date : 05-OCT-2005 19:21 Inst ID : TRACEGC83
Operator : 2512
Method : /chem/tracegc83.i/m051005.b/2ulOLM04_clpest2v6.m
Misc. Info : None

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
0.14			6504					
0.50			3719					
0.71			33955					
0.85			3150					
0.89			7745					
1.19			557					
1.27			2413					
1.49			503					
2.25			1106					
2.41			139					
3.54			5685					
4.16			747					
4.28	4.23	4.33	23231	1069850	Tetrachloro-m-xylene	0.020000		
4.56			135					
5.17			598					
5.81			545					
6.60			326					
6.69			472					
7.02			106					
7.22			302					
7.77			140					
8.98			631					
9.16			272					
9.35			253					
9.63			338					
9.80			1096					
10.06			235					
10.26			1304					
10.39			431					
10.70			646					
10.82			2960					
10.93			3031					
11.19			1211					
11.36			4644					
11.56			2652					
11.68			2069					
11.87			6484					
11.97			5063					
12.18			5878					
12.26			3385					
12.56			26040					
12.99			16132					

CompuChem Environmental Corporation

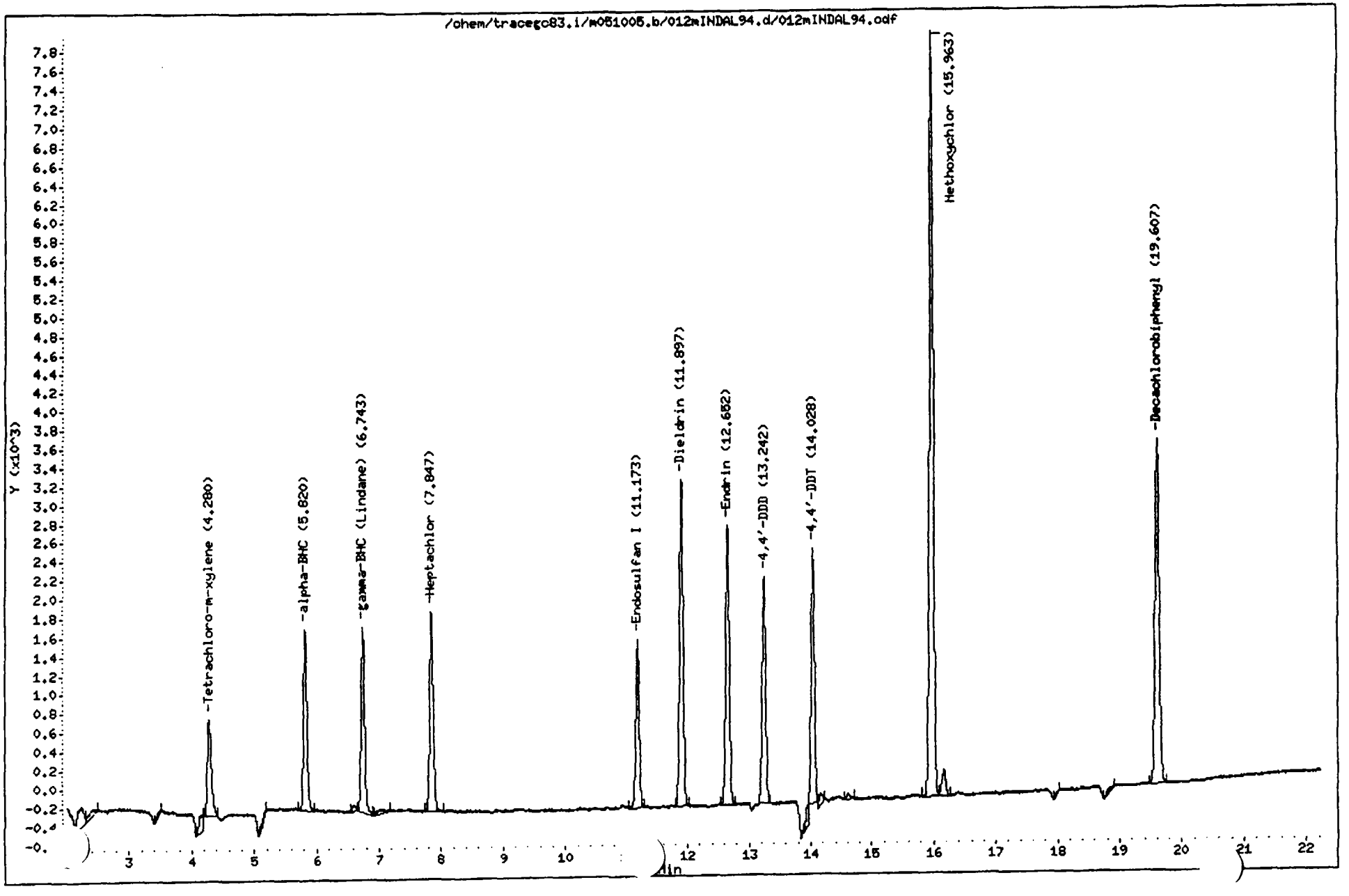
L Smp Id : TOXAPH94 Client Smp Id : TOXAPH94
Sample Type : INITIAL CAL: Level 2 Sublist : TOXAPH
Inj Date : 05-OCT-2005 19:21 Inst ID :
Operator : 2512
Method : /chem/tracegc83.i/m051005.b/2ulOLM04_clpest2v6.m
Misc. Info : None

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
13.11		6081					
13.20		14588					
13.47	13.40 13.54	30863	61726	Toxaphene Peak 1	0.500000	61726	M
13.65		11656					
13.95		20045					
14.18		26845					
14.36		27422					
14.47		11941					
14.61		7967					
14.74	14.67 14.81	28654	57308	Toxaphene Peak 2	0.500000	57308	
14.92		8617					
15.04		14757					
15.12		11629					
15.24		8134					
15.43	15.36 15.50	44097	88194	Toxaphene Peak 3	0.500000	88194	
15.69		52316					
15.95		10805					
16.16		20337					
16.43	16.36 16.50	30534	61066	Toxaphene Peak 4	0.500000	61066	
16.73		15479					
16.99	16.92 17.06	29443	58884	Toxaphene Peak 5	0.500000	58884	
17 16		3588					
		8512					
		4879					
17.70		3699					
17.82		2404					
18.02		4614					
18.15		4224					
18.33		2002					
18.41		3503					
18.59		2756					
18.89		2493					
19.22		678					
19.36		1522					
19.60	19.51 19.71	39125	1977350	Decachlorobiphenyl	0.040000		
19.83		519					


Data File: /chem/tracegc83.i/m051005.b/011mTOXAPH94.d/011mTOXAPH94.cdf
Injection Date: 05-OCT-2005 19:21
Instrument: tracegc83.i
Client Sample ID: TOXAPH94
Y (x10^3)
AIA Scientific Software, Inc. 011mTOXAPH94.cdf: 10.808 to 18.289 Min
Min
10.818
10.932
11.190
11.358
11.562
11.678
11.873
11.975
12.182
12.262
12.563
12.995
13.110
13.197
Toxaphene
13.652
13.953
14.183
14.363
14.470
14.605
Toxaphene
14.917
15.038
15.118
15.245
Toxaphene
15.687
15.952
16.158
Toxaphene
16.727
Toxaphene
17.163
17.327
17.608
17.695
17.820
18.025
18.153

Data File: /ohem/tracegc83.i/m051005.b/012mINDAL94.d
Date : 05-OCT-2005 19:47
Client ID: INDAL94
Sample Info: INDAL94
Volume Injected (uL): 1.0
Column phase: clpest2

Instrument: tracegc83.i
Operator: 2512
Column diameter: 0.53

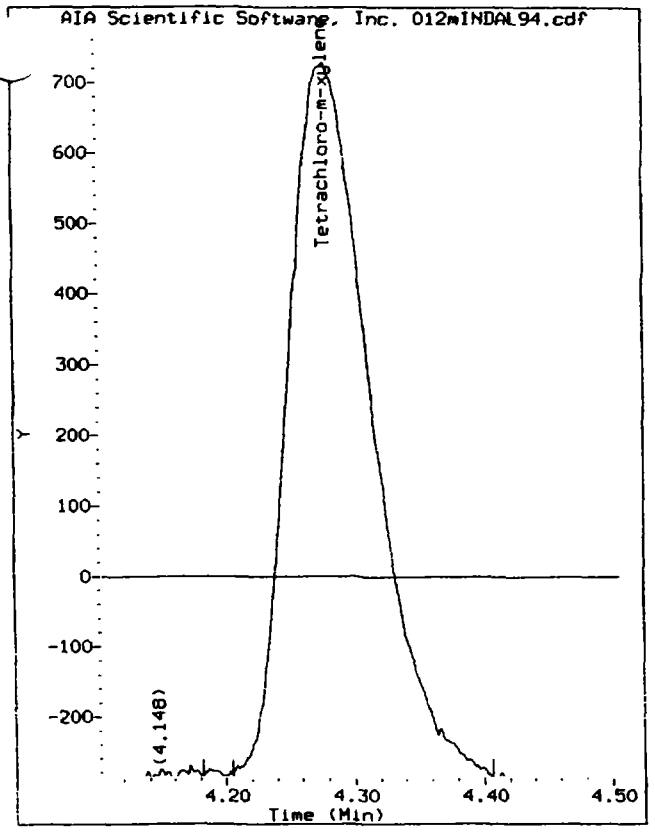


CompuChem Environmental Corporation

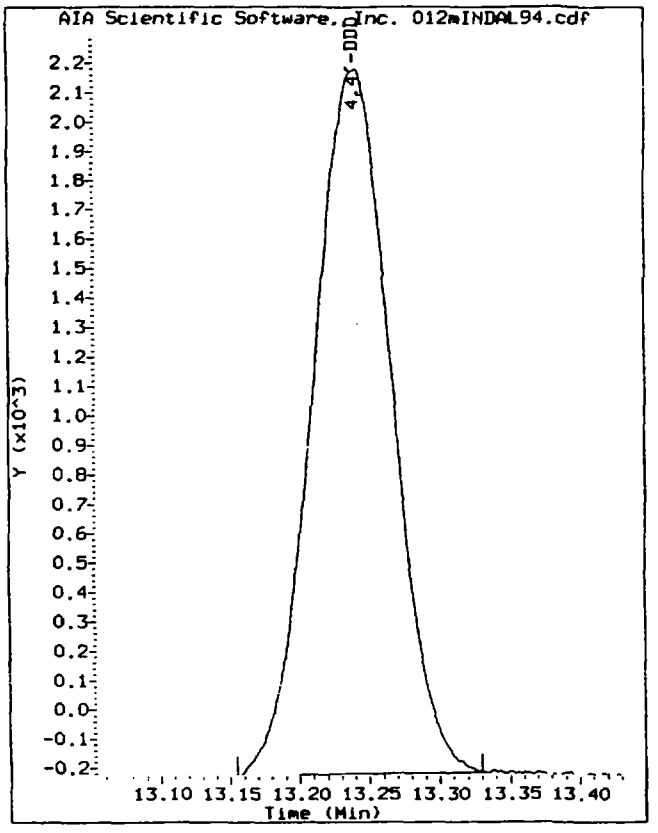
Lab Smp Id : INDAL94 Client Smp Id : INDAL94
Sample Type : INITIAL CAL: Level 1 Sublist : INDA
Inj Date : 05-OCT-2005 19:47 Inst ID : TRACEGC83
Operator : 2512
Method : /chem/tracegc83.i/m051005.b/2ulOLM04_clpest2v6.m
Misc. Info : None

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
0.14			2482					
0.71			8480					
0.89			9725					
1.17			1271					
1.28			2392					
1.49			1037					
2.23			1385					
2.45			454					
3.48			165					
4.15			896					
4.28	4.23	4.33	4511	1069850	Tetrachloro-m-xylene	0.005000	902000	M
5.18			324					
5.82	5.77	5.87	7386	2064950	alpha-BHC	0.005000	1477000	
6.61			284					
6.74	6.69	6.79	7404	1903750	gamma-BHC (Lindane)	0.005000	1480600	
7.00			425					
7.85	7.80	7.90	8499	2134550	Heptachlor	0.005000	1699600	
11.17	11.11	11.25	7305	1834350	Endosulfan I	0.005000	1460800	
11.90	11.83	11.97	13889	1848950	Dieldrin	0.010000	1388800	
12.65	12.58	12.72	11956	1510625	Endrin	0.010000	1195600	
13.24	13.17	13.31	9361	1303075	4,4'-DDD	0.010000	936100	M
13.87			91					
13.95			614					
14.03	13.96	14.10	9919	1522700	4,4'-DDT	0.010000	991900	M
14.15			490					
14.61			284					
15.96	15.89	16.03	34675	823570	Methoxychlor	0.050000	693500	
16.16			1169					
18.03			102					
18.89			264					
19.61	19.51	19.71	16787	1977350	Decachlorobiphenyl	0.010000	1678600	

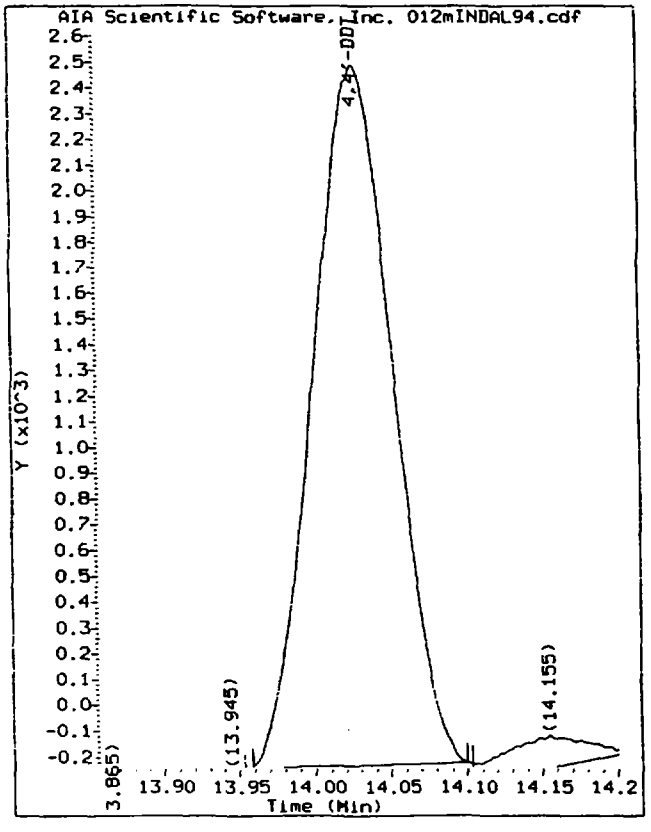
Manually Integrated Peaks



Start: 4.21 Stop: 4.41



Start: 13.15 Stop: 13.33

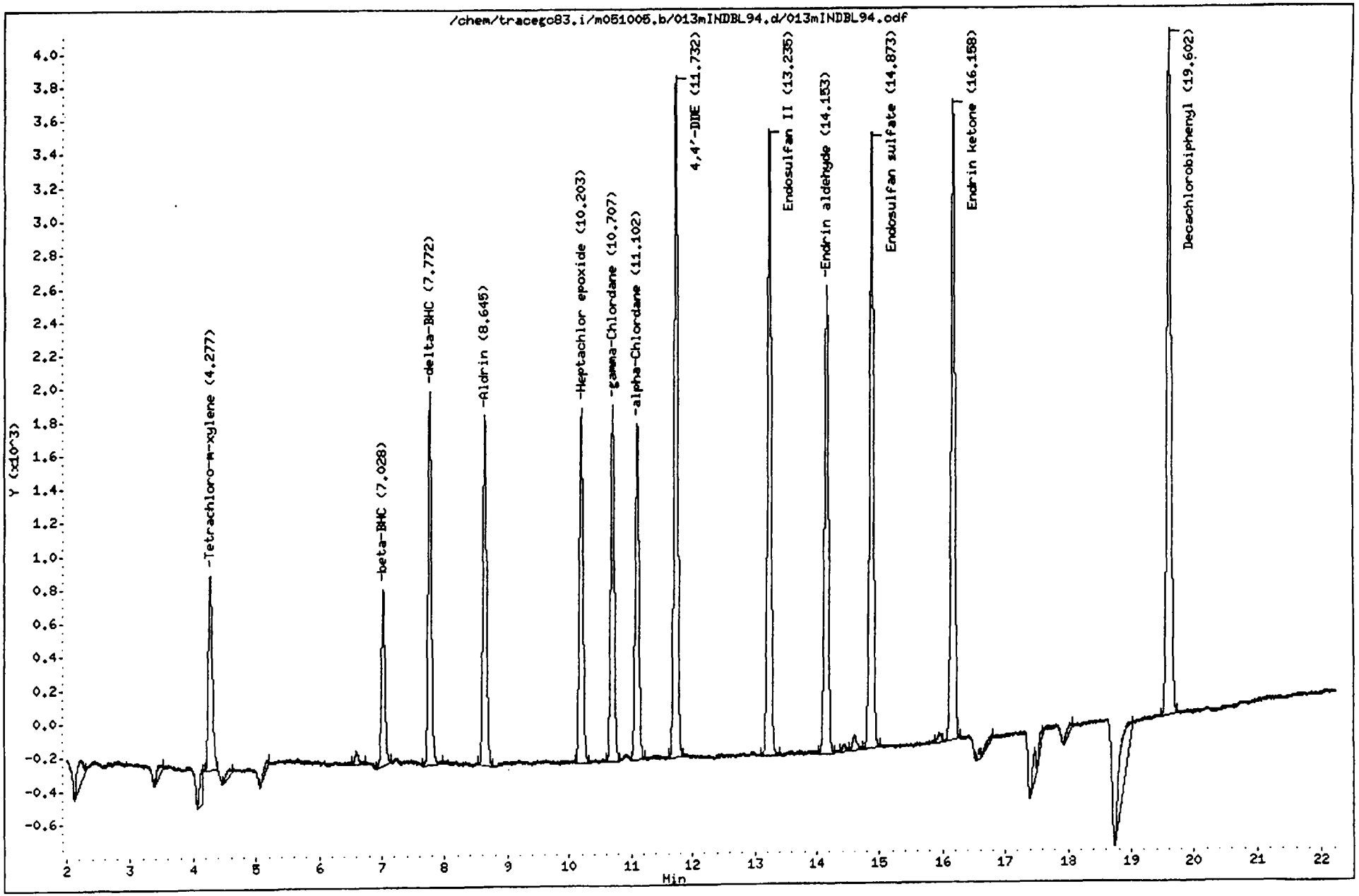


Start: 13.96 Stop: 14.10

Data File: /chem/tracegc83.i/m051005.b/013mINDBL94.d
Date : 05-OCT-2005 20:12
Client ID: INDBL94
Sample Info: INDBL94
Volume Injected (uL): 1.0
Column phase: olpest2

Instrument: tracegc83.i

Operator: 2512
Column diameter: 0.53

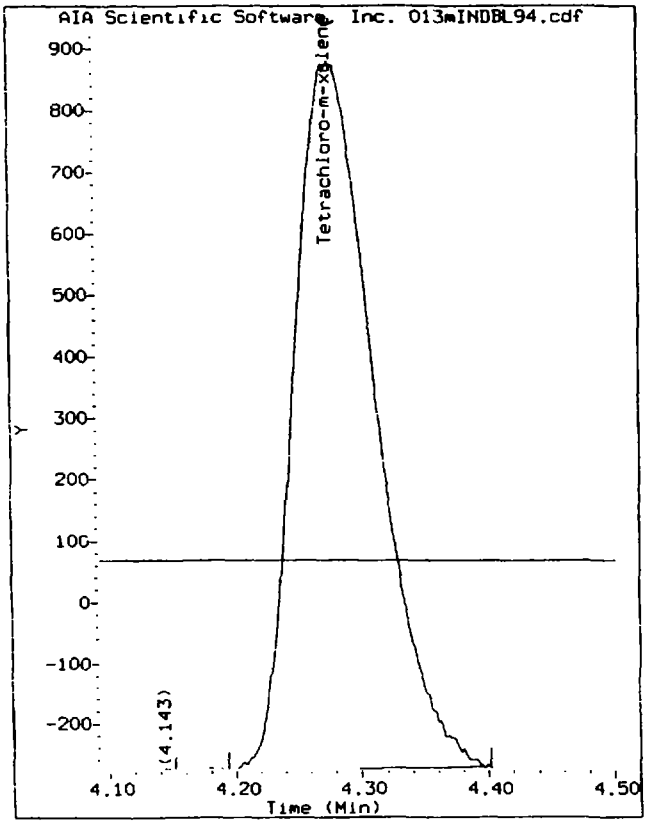


CompuChem Environmental Corporation

I Smp Id : INDBL94 Client Smp Id : INDBL94
Sample Type : INITIAL CAL: Level 1 Sublist : INDB
Inj Date : 05-OCT-2005 20:12 Inst ID : TRACEGC83
Operator : 2512
Method : /chem/tracegc83.i/m051005.b/2ulOLM04_clpest2v6.m
Misc. Info : None

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
0.15			1954					
0.71			66992					
1.17			103					
1.27			1292					
1.47			194					
2.23			968					
3.48			317					
4.14			643					
4.28	4.23	4.33	5062	1069850	Tetrachloro-m-xylene	0.005000		M
4.59			263					
5.17			337					
6.60			342					
7.03	6.98	7.08	4007	807050	beta-BHC	0.005000	801200	
7.77	7.72	7.82	7996	1879650	delta-BHC	0.005000	1599000	
8.64	8.59	8.69	8316	1839200	Aldrin	0.005000	1663200	
10.20	10.14	10.28	8426	1782000	Heptachlor epoxide	0.005000	1685000	
10.71	10.64	10.78	8542	1846350	gamma-Chlordane	0.005000	1708200	
11.10	11.03	11.17	8032	1717800	alpha-Chlordane	0.005000	1606200	
11.73	11.66	11.80	16115	1770050	4,4'-DDE	0.010000	1611500	
13.24	13.17	13.31	15247	1601525	Endosulfan II	0.010000	1524700	
14.15	14.08	14.22	11529	1196525	Endrin aldehyde	0.010000	1152900	
14.43			216					
			483					
14.87	14.81	14.95	15289	1655950	Endosulfan sulfate	0.010000	1528800	
15.95			261					
16.16	16.09	16.23	15827	1712350	Endrin ketone	0.010000	1582700	
16.59			156					
16.78			233					
17.47			673					
17.59			244					
18.02			305					
19.00			3524					
19.60	19.51	19.71	18721	1977350	Decachlorobiphenyl	0.010000		

Manually Integrated Peaks

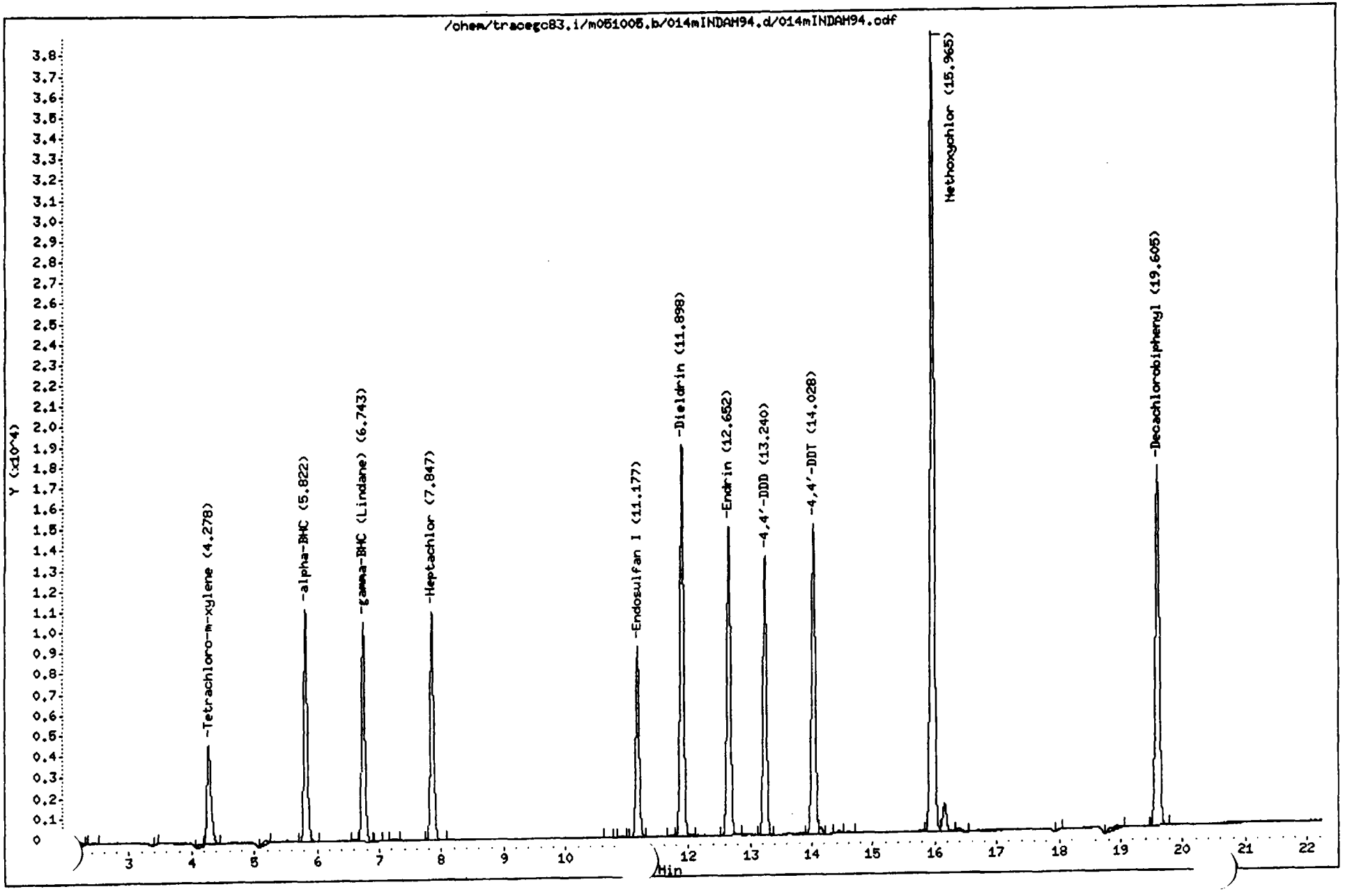


Start: 4.19 Stop: 4.40

Data File: /chem/tracegc83.i/m051005.b/014mINDAH94.d
Date : 05-OCT-2005 20:38
Client ID: INDAH94
Sample Info: INDAH94
Volume Injected (uL): 1.0
Column phase: clpest2

Instrument: tracegc83.i

Operator: 2512
Column diameter: 0.53

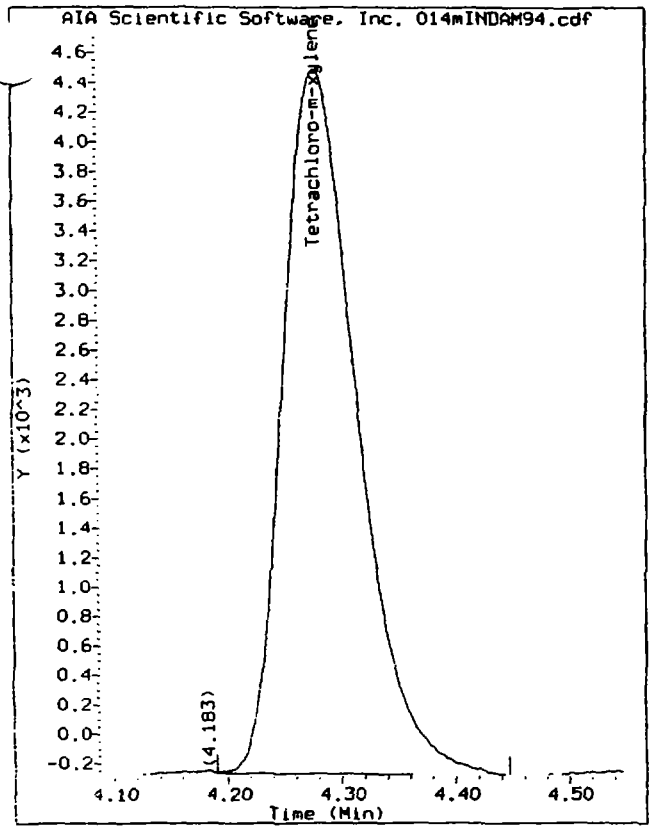


CompuChem Environmental Corporation

Lab Smp Id : INDAM94
Client Smp Id : INDAM94
Sample Type : INITIAL CAL: Level 2
Sublist : INDA
Inj Date : 05-OCT-2005 20:38
Inst ID : TRACEGC83
Operator : 2512
Method : /chem/tracegc83.i/m051005.b/2ulOLM04_clpest2v6.m
Misc. Info : None

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
0.14			2845					
0.71			8866					
0.86			3211					
0.89			12039					
1.27			1271					
1.50			873					
2.21			1074					
2.41			223					
3.46			93					
4.18			958					
4.28	4.23	4.33	21398	1069850	Tetrachloro-m-xylene	0.020000	1069850	M
5.17			946					
5.82	5.77	5.87	41299	2064950	alpha-BHC	0.020000	2064950	
6.61			290					
6.74	6.69	6.79	38075	1903750	gamma-BHC (Lindane)	0.020000	1903750	
7.02			139					
7.23			340					
7.85	7.80	7.90	42692	2134550	Heptachlor	0.020000	2134550	
10.71			199					
10.92			223					
11.18	11.11	11.25	36688	1834350	Endosulfan I	0.020000	1834350	
11.73			274					
11.90	11.83	11.97	73958	1848950	Dieldrin	0.040000	1848950	
12.65	12.58	12.72	60426	1510625	Endrin	0.040000	1510625	
13.24	13.17	13.31	52123	1303075	4,4'-DDD	0.040000	1303075	
14.03	13.96	14.10	60909	1522700	4,4'-DDT	0.040000	1522700	
14.14			1180					
14.43			624					
14.60			369					
15.96	15.89	16.03	164715	823570	Methoxychlor	0.200000	823570	
16.16			6173					
16.38			1019					
18.04			272					
18.94			2358					
19.60	19.51	19.71	79094	1977350	Decachlorobiphenyl	0.040000	1977350	

Manually Integrated Peaks

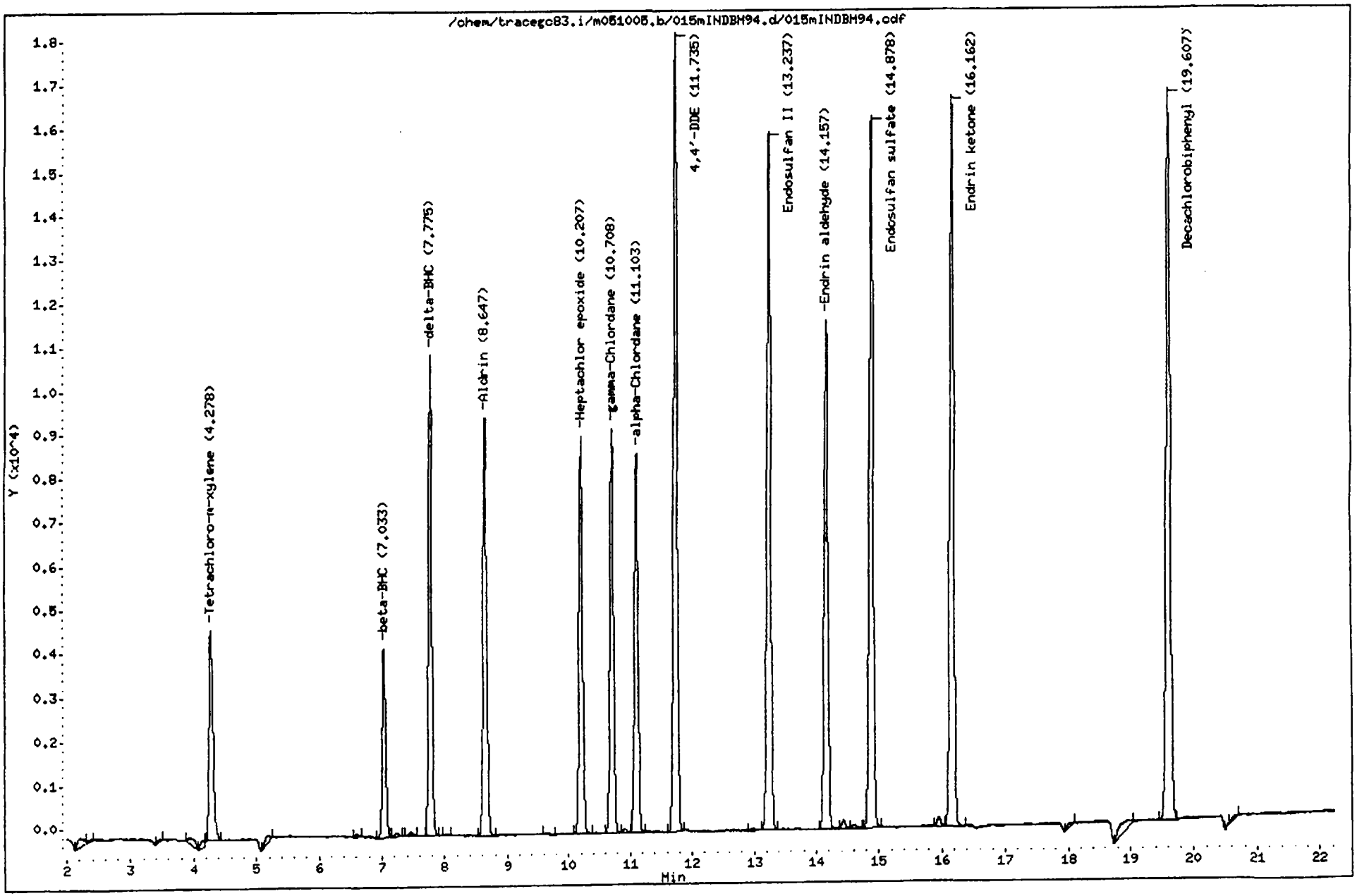


Start: 4.19 Stop: 4.45

Data File: /chem/tracegc83.i/m051005.b/015mINDBM94.d
Date : 05-OCT-2005 21:03
Client ID: INDBM94
Sample Info: INDBM94
Volume Injected (uL): 1.0
Column phase: clpest2

Instrument: tracegc83.i

Operator: 2512
Column diameter: 0.53

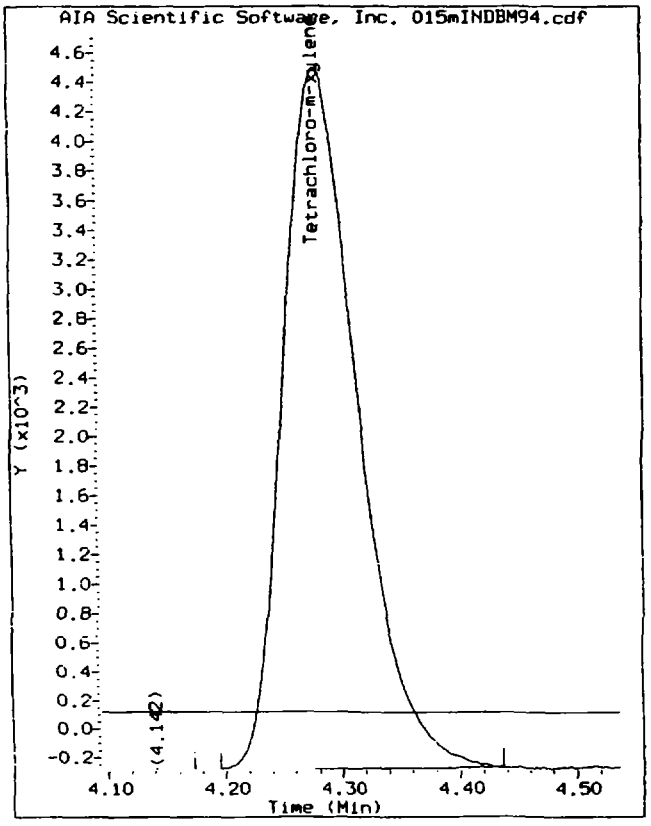


CompuChem Environmental Corporation

L Smp Id : INDBM94 Client Smp Id : INDBM94
Sample Type : INITIAL CAL: Level 2 Sublist : INDB
Inj Date : 05-OCT-2005 21:03 Inst ID : TRACEGC83
Operator : 2512
Method : /chem/tracegc83.i/m051005.b/2ulOLM04_clpest2v6.m
Misc. Info : None

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
0.14			2003					
0.44			219					
0.71			9623					
0.90			14953					
1.18			594					
1.28			1777					
1.49			550					
2.22			1383					
2.39			205					
3.48			212					
3.92			1226					
4.14			700					
4.28	4.23	4.33	21125	1069850	Tetrachloro-m-xylene	0.020000		M
5.19			908					
6.60			275					
7.03	6.98	7.08	16142	807050	beta-BHC	0.020000	807050	
7.23			411					
7.47			433					
7.78	7.72	7.82	37593	1879650	delta-BHC	0.020000	1879650	
8.05			152					
8.65	8.59	8.69	36784	1839200	Aldrin	0.020000	1839200	
[illegible]6			275					
	10.14	10.28	35640	1782000	Heptachlor epoxide	0.020000	1782000	
[illegible]	10.64	10.78	36928	1846350	gamma-Chlordane	0.020000	1846350	
10.91			399					
11.10	11.03	11.17	34357	1717800	alpha-Chlordane	0.020000	1717800	
11.74	11.66	11.80	70802	1770050	4,4'-DDE	0.040000	1770050	
12.99			257					
13.24	13.17	13.31	64061	1601525	Endosulfan II	0.040000	1601525	
14.16	14.08	14.22	47862	1196525	Endrin aldehyde	0.040000	1196525	
14.44			855					
14.61			475					
14.88	14.81	14.95	66239	1655950	Endosulfan sulfate	0.040000	1655950	
15.95			870					
16.16	16.09	16.23	68494	1712350	Endrin ketone	0.040000	1712350	
18.08			575					
18.97			2989					
19.61	19.51	19.71	76656	1977350	Decachlorobiphenyl	0.040000		
20.55			204					
20.68			623					

Manually Integrated Peaks

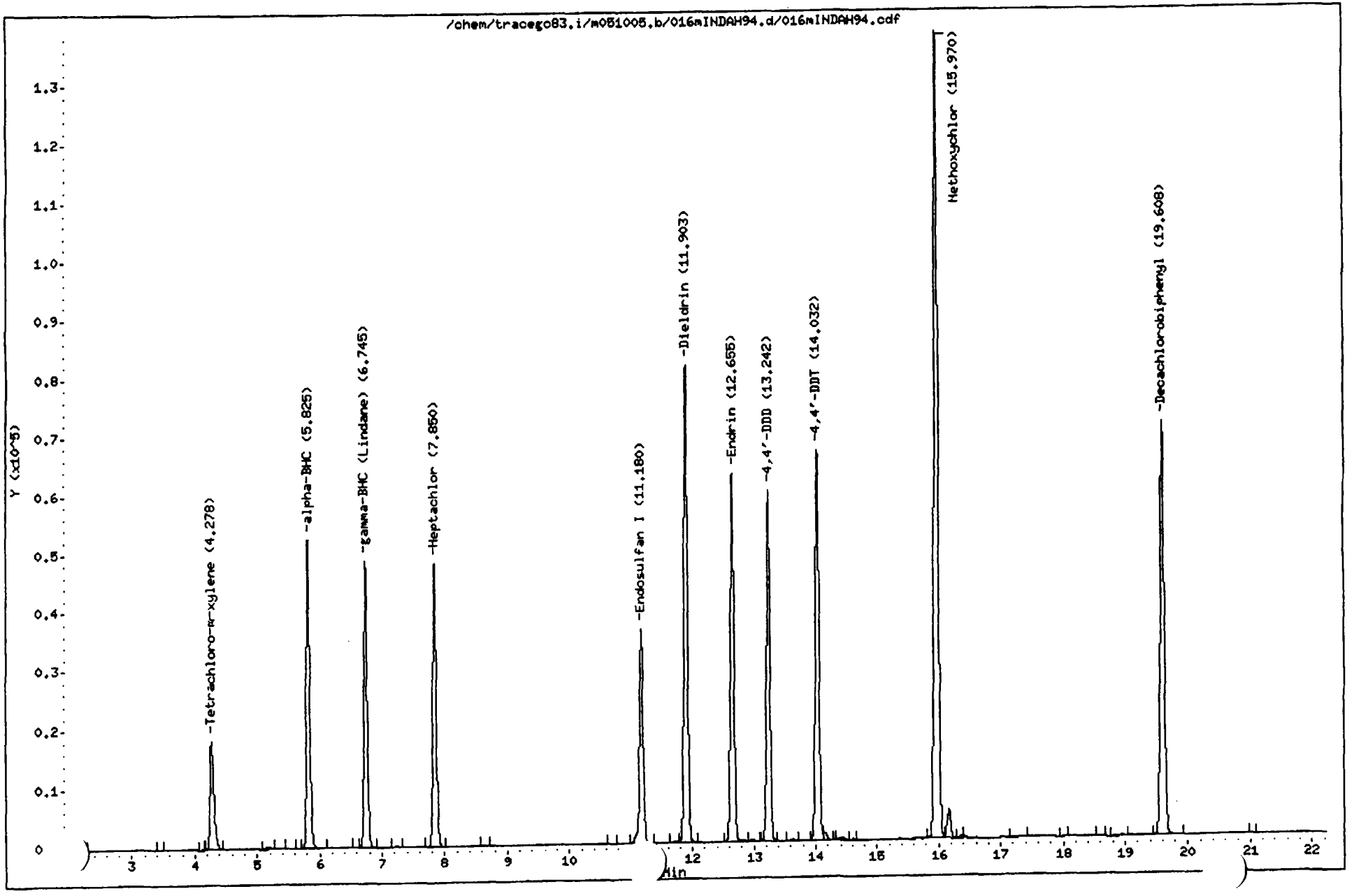


Start: 4.20 Stop: 4.44

Data File: /chem/tracego83.i/m051005.b/016mINDAH94.d
Date : 05-OCT-2005 21:28
Client ID: INDAH94
Sample Info: INDAH94
Volume Injected (uL): 1.0
Column phase: olpest2

Instrument: tracego83.i

Operator: 2512
Column diameter: 0.53

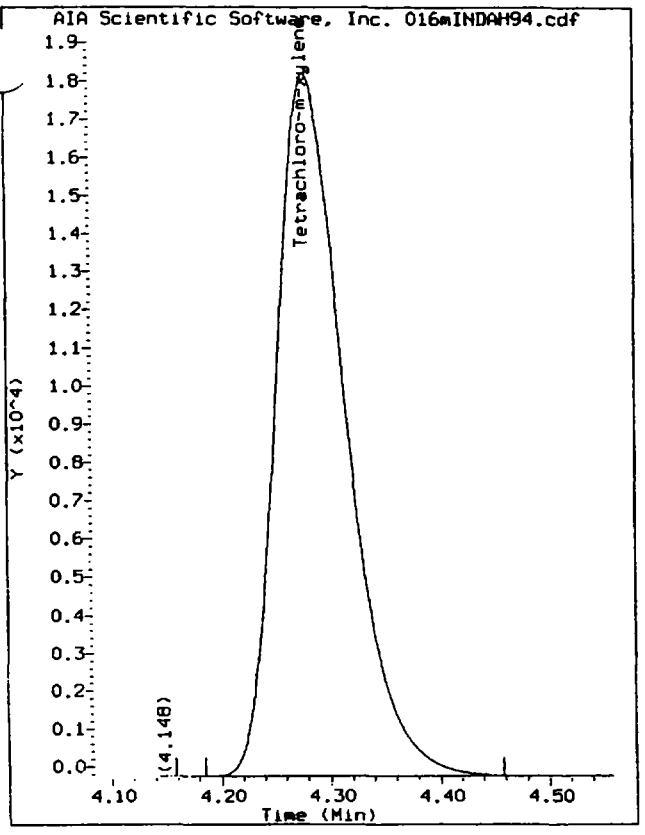


CompuChem Environmental Corporation

Lab Smp Id : INDAH94
Client Smp Id : INDAH94
Sample Type : INITIAL CAL: Level 3
Sublist : INDA
Inj Date : 05-OCT-2005 21:28
Inst ID : TRACEGC83
Operator : 2512
Method : /chem/tracegc83.i/m051005.b/2ulOLM04_clpest2v6.m
Misc. Info : None

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
0.14			1960					
0.71			12505					
0.88			3745					
1.23			195					
1.28			1289					
1.47			398					
2.26			876					
3.49			230					
4.15			574					
4.28	4.23	4.33	80522	1069850	Tetrachloro-m-xylene	0.080000	1006525	M
5.17			1763					
5.51			258					
5.82	5.77	5.87	189752	2064950	alpha-BHC	0.080000	2371888	
6.61			291					
6.74	6.69	6.79	170869	1903750	gamma-BHC (Lindane)	0.080000	2135862	
7.23			820					
7.85	7.80	7.90	181136	2134550	Heptachlor	0.080000	2264188	
8.63			192					
10.71			269					
11.18	11.11	11.25	148355	1834350	Endosulfan I	0.080000	1854425	
11.74			798					
11.90	11.83	11.97	315891	1848950	Dieldrin	0.160000	1974319	
12.66	12.58	12.72	250644	1510625	Endrin	0.160000	1566519	
12.97			665					
13.24	13.17	13.31	228156	1303075	4,4'-DDD	0.160000	1425969	
13.62			464					
14.03	13.96	14.10	261350	1522700	4,4'-DDT	0.160000	1633438	
14.15			4528					
14.43			1346					
14.62			188					
15.97	15.89	16.03	592469	823570	Methoxychlor	0.800000	740585	
16.16			20584					
16.39			867					
17.26			999					
18.05			196					
18.56			141					
18.96			1781					
19.61	19.51	19.71	312218	1977350	Decachlorobiphenyl	0.160000	1951362	
21.06			106					

Manually Integrated Peaks

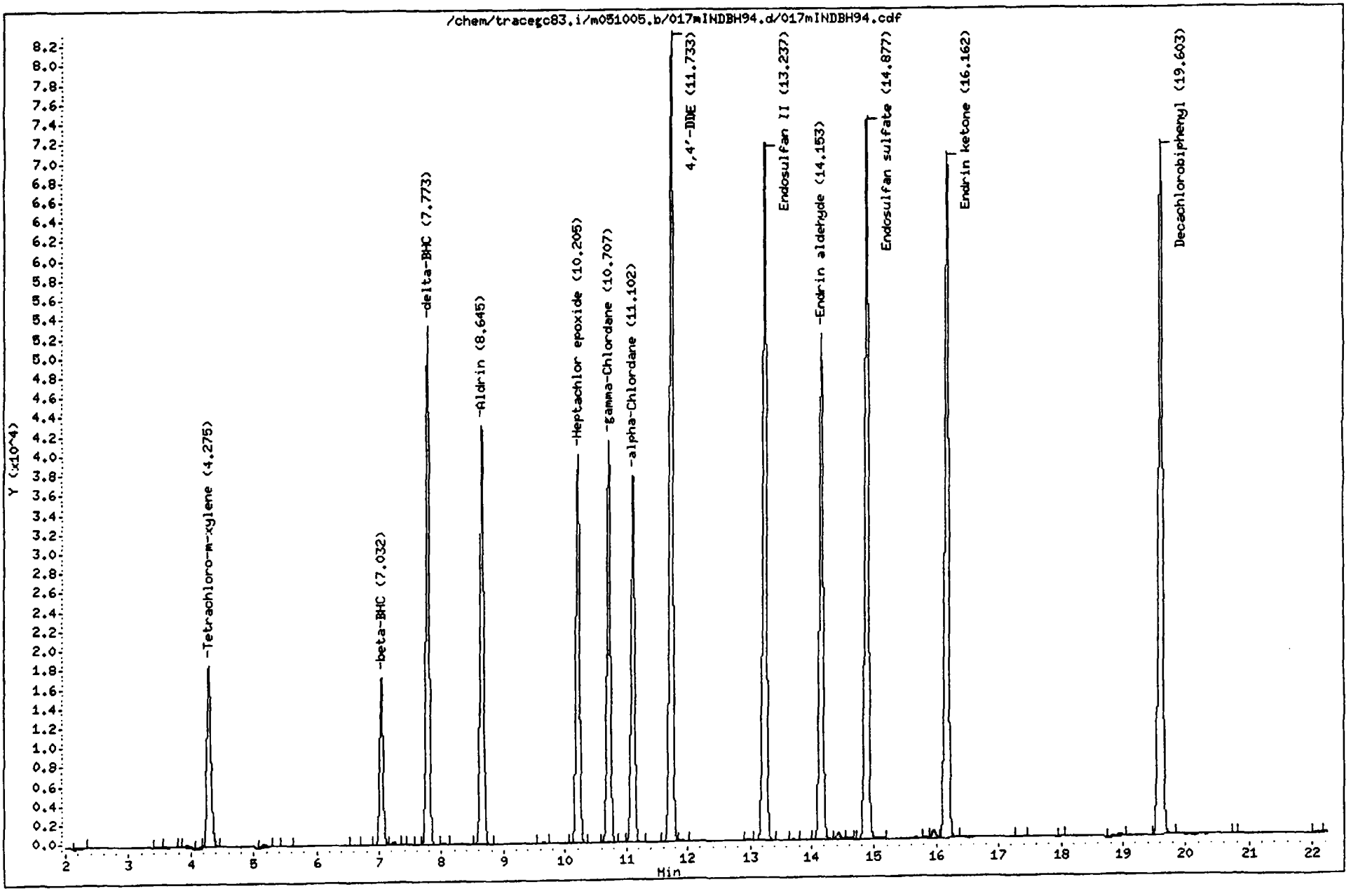


Start: 4.18 Stop: 4.46

Data File: /chem/tracego83.i/m051005.b/017mINDBH94.d
Date : 05-OCT-2005 21:54
Client ID: INDBH94
Sample Info: INDBH94
Volume Injected (uL): 1.0
Column phase: clpest2

Instrument: tracego83.i

Operator: 2612
Column diameter: 0.53



CompuChem Environmental Corporation

La Smp Id : INDBH94 Client Smp Id : INDBH94
Sample Type : INITIAL CAL: Level 3 Sublist : INDB
Inj Date : 05-OCT-2005 21:54 Inst ID : TRACEGC83
Operator : 2512
Method : /chem/tracegc83.i/m051005.b/2ulOLM04_clpest2v6.m
Misc. Info : None

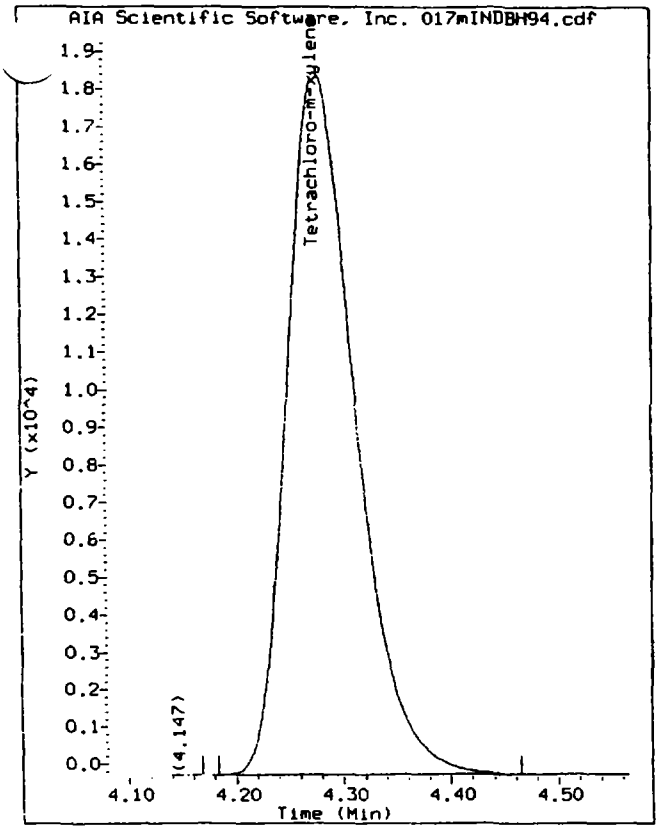
RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
0.13			5619					
0.71			51520					
0.89			4721					
1.23			936					
1.27			1881					
1.48			243					
2.25			1270					
3.47			735					
3.62			779					
3.93			1838					
4.15			675					
4.28	4.23	4.33	81997	1069850	Tetrachloro-m-xylene	0.080000		M
5.17			2107					
5.52			279					
6.61			289					
7.03	6.98	7.08	62007	807050	beta-BHC	0.080000	775088	
7.23			1396					
7.47			154					
7.77	7.72	7.82	178954	1879650	delta-BHC	0.080000	2236925	
8.04			478					
8.64	8.59	8.69	162235	1839200	Aldrin	0.080000	2027925	
			637					
J	10.14	10.28	152036	1782000	Heptachlor epoxide	0.080000	1900438	
10.71	10.64	10.78	159429	1846350	gamma-Chlordane	0.080000	1992862	
11.10	11.03	11.17	145973	1717800	alpha-Chlordane	0.080000	1824650	
11.73	11.66	11.80	314345	1770050	4,4'-DDE	0.160000	1964650	
11.89			788					
12.98			673					
13.24	13.17	13.31	282744	1601525	Endosulfan II	0.160000	1767144	
13.70			350					
14.15	14.08	14.22	205396	1196525	Endrin aldehyde	0.160000	1283719	
14.43			2633					
14.61			459					
14.88	14.81	14.95	293540	1655950	Endosulfan sulfate	0.160000	1834625	
15.83			192					
15.95			3245					
16.16	16.09	16.23	285944	1712350	Endrin ketone	0.160000	1787150	
17.34			360					
18.04			145					
18.95			2160					
19.60	19.51	19.71	314699	1977350	Decachlorobiphenyl	0.160000		
20.79			93					

CompuChem Environmental Corporation

Lab Smp Id : INDBH94 Client Smp Id : INDBH94
Sample Type : INITIAL CAL: Level 3 Sublist : INDB
Inj Date : 05-OCT-2005 21:54 Inst ID :
Operator : 2512
Method : /chem/tracegc83.i/m051005.b/2ulOLM04_clpest2v6.m
Misc. Info : None

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
22.09		403					

Manually Integrated Peaks

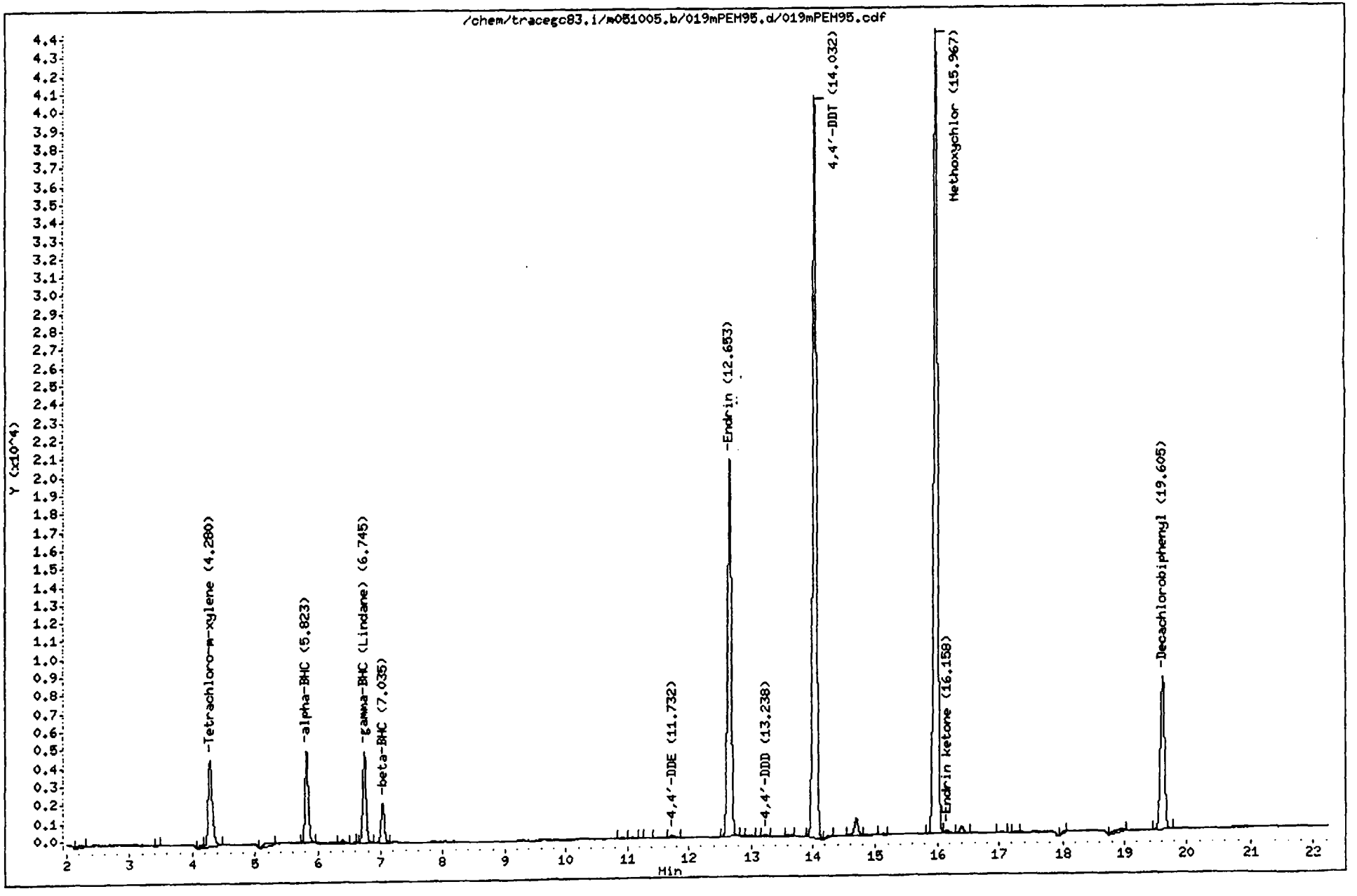


Start: 4.18 Stop: 4.46

Data File: /chem/tracego83.i/m051005.b/019mPEM95.d
Date : 05-OCT-2005 22:45
Client ID: PEM95
Sample Info: PEM95
Volume Injected (uL): 1.0
Column phase: olpest2

Instrument: tracego83.i

Operator: 2512
Column diameter: 0.53



CompuChem Environmental Corporation

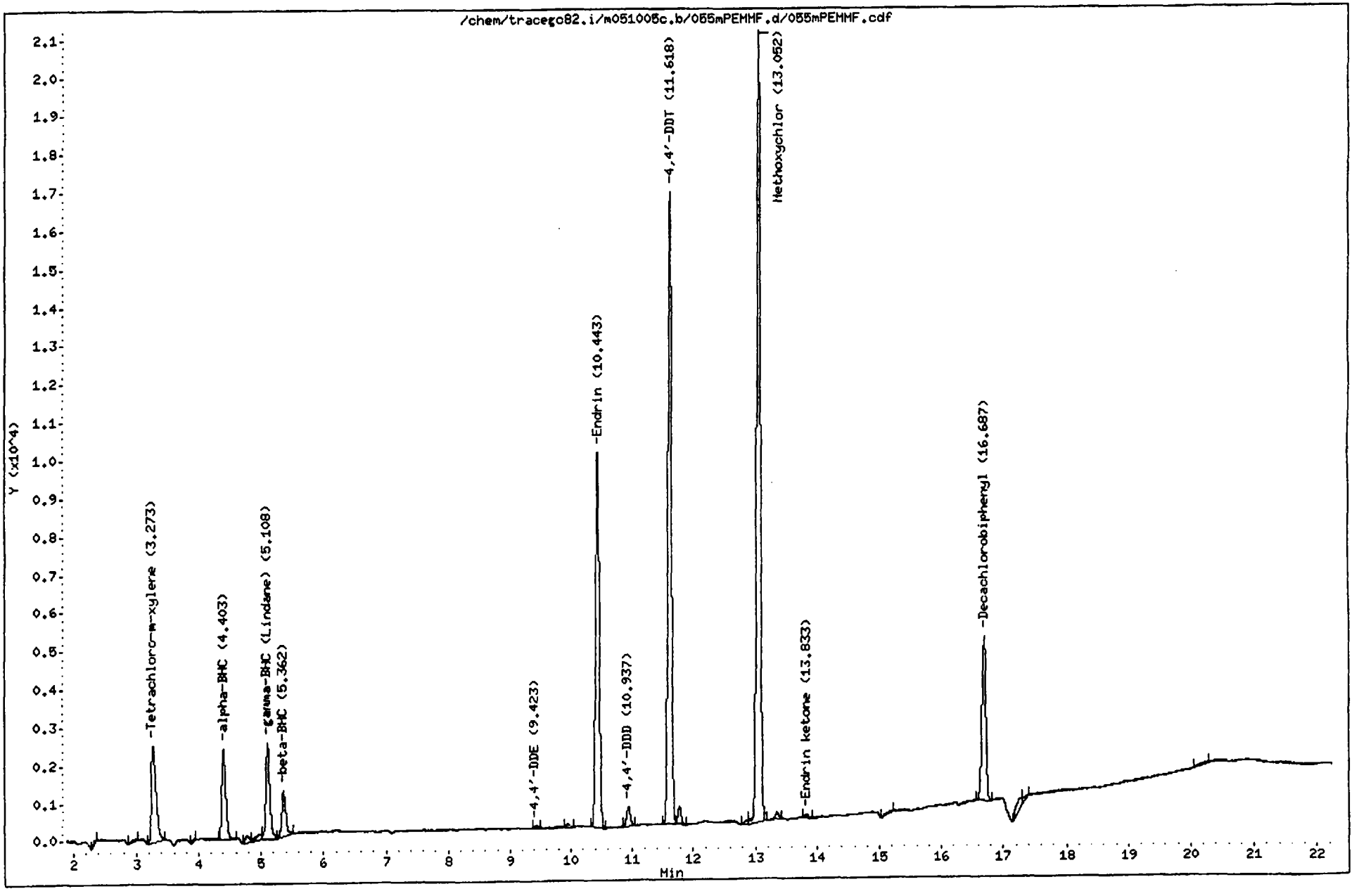
Lab Smp Id : PEM95 Client Smp Id : PEM95
Sample Type : PEM Sublist : PEM
Inj Date : 05-OCT-2005 22:45 Inst ID : TRACEGC83
Operator : 2512 Spike Sublist : PEM
Method : /chem/tracegc83.i/m051005.b/2ulOLM04_clpest2v6.m
Misc. Info : None

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CALC AMT ON-COLUMN (Ng)	%D	%D LIMIT	FLAGS
0.14			2066							
0.71			6649							
0.89			21016							
1.22			1029							
1.27			2356							
1.50			418							
1.81			102							
2.23			975							
3.48			146							
4.14			782							
4.28	4.23	4.33	22364	1069850	Tetrachloro-m-xylene	0.020000	0.020904	4.5	25.0	
5.18			1477							
5.82	5.77	5.87	18768	2064950	alpha-BHC	0.010000	0.009089	-9.1	25.0	
6.39			730							
6.60			183							
6.74	6.69	6.79	18185	1903750	gamma-BHC (Lindane)	0.010000	0.009552	-4.5	25.0	
7.04	6.98	7.08	8151	807050	beta-BHC	0.010000	0.010100	1.0	25.0	
10.92			385							
11.10			323							
11.34			204							
11.73	11.66	11.80	741	1770050	4,4'-DDE	0.000000	0.000419			J
12.65	12.58	12.72	82706	1510625	Endrin	0.050000	0.054749	9.5	25.0	
			356							
	13.17	13.31	213	1303075	4,4'-DDD	0.000000	0.000164			J
13.62			392							
14.03	13.96	14.10	160659	1522700	4,4'-DDT	0.100000	0.105509	5.5	25.0	
14.31			328							
14.70			4109							
15.11			313							
15.97	15.89	16.03	187556	823570	Methoxychlor	0.250000	0.227736	-8.9	25.0	
16.16	16.09	16.23	999	1712350	Endrin ketone	0.000000	0.000583			J
16.38			1740							
17.04			272							
17.27			169							
18.04			371							
18.95			1582							
19.60	19.51	19.71	38444	1977350	Decachlorobiphenyl	0.020000	0.019442	-2.8	25.0	

Data File: /chem/tracegc82.i/m051005c.b/055mPEMMF.d
Date : 06-OCT-2005 14:30
Client ID: PEMMF
Sample Info: PEMMF
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc82.i

Operator: 2512
Column diameter: 0.53



CompuChem Environmental Corporation

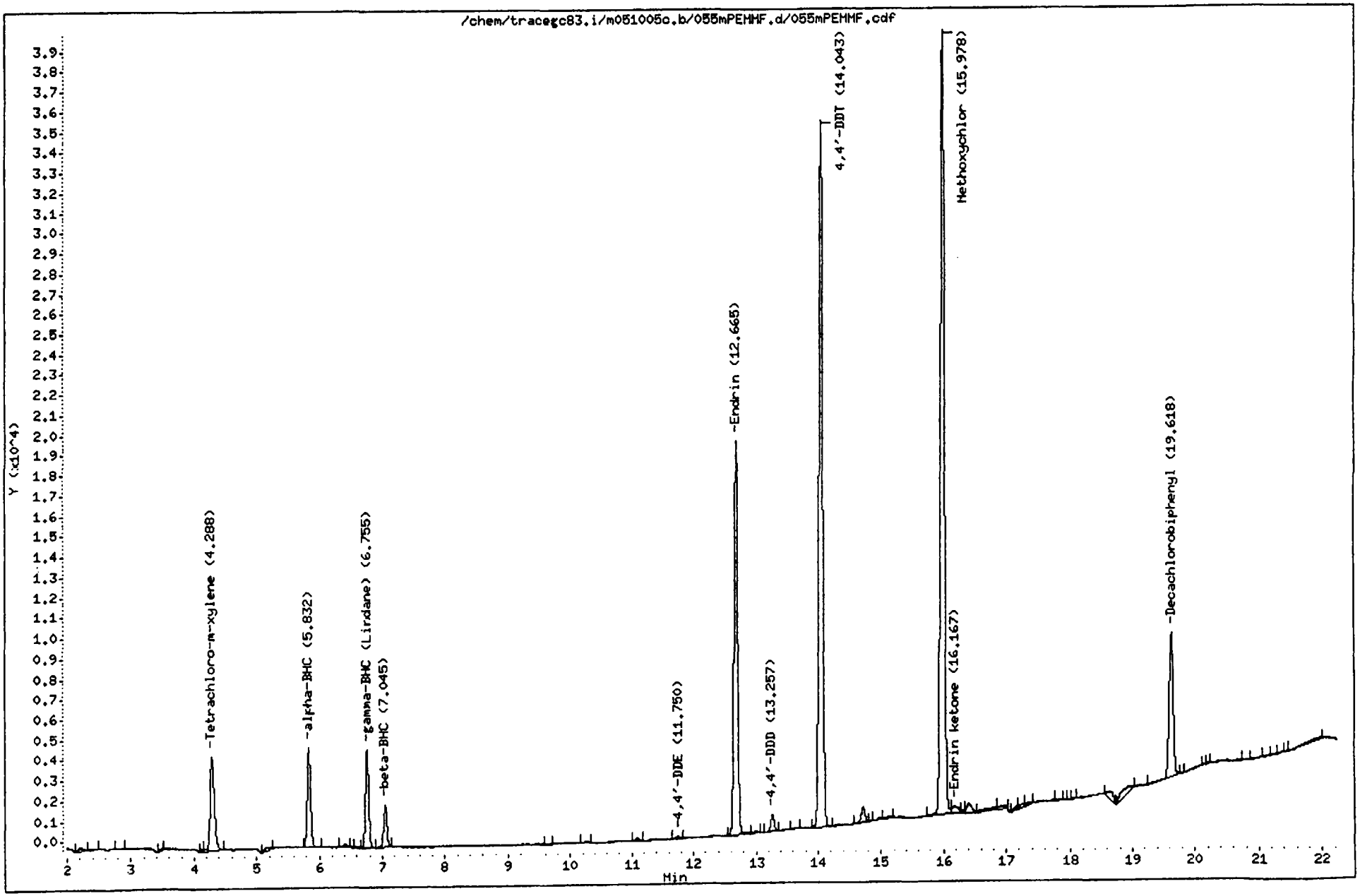
Smp Id	: PEMMF	Client Smp Id	: PEMMF
Sample Type	: PEM	Sublist	: PEM
Inj Date	: 06-OCT-2005 14:30	Inst ID	: TRACEGC82
Operator	: 2512	Spike Sublist	: PEM
Method	: /chem/tracegc82.i/m051005c.b/2ul0LM04_clpestv6.m		
Misc. Info	: None		

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CALC AMT ON-COLUMN (Ng)	%D	%D LIMIT	FLAGS
0.14			6676							
0.72			15364							
0.87			13143							
1.14			1403							
1.32			800							
1.58			591							
2.36			217							
2.99			380							
3.27	3.21	3.31	13405	719050	Tetrachloro-m-xylene	0.020000	0.018642	-6.8	25.0	
3.94			154							
4.40	4.34	4.44	10455	1186150	alpha-BHC	0.010000	0.008815	-11.9	25.0	
4.79			867							
4.97			1029							
5.11	5.05	5.15	11319	1121350	gamma-BHC (Lindane)	0.010000	0.010094	0.9	25.0	
5.36	5.30	5.40	5425	520750	beta-BHC	0.010000	0.010417	4.2	25.0	
9.42	9.34	9.48	301	994300	4,4'-DDE	0.000000	0.000303			J
9.94			395							
10.44	10.36	10.50	39733	762275	Endrin	0.050000	0.052125	4.2	25.0	
10.94	10.84	10.98	2214	709125	4,4'-DDD	0.000000	0.003123			J
11.62	11.53	11.67	67160	840075	4,4'-DDT	0.100000	0.079945	-20.1	25.0	
11.77			1799							
12.87			333							
	12.97	13.11	87411	460690	Methoxychlor	0.250000	0.189740	-24.1	25.0	
			883							
13.63	13.74	13.88	424	979550	Endrin ketone	0.000000	0.000433			J
15.18			400							
16.69	16.57	16.77	19237	1191025	Decachlorobiphenyl	0.020000	0.016152	-19.2	25.0	
17.29			2260							
17.39			508							
20.24			442							

10/6/11

Data File: /chem/tracego83.i/m051005c.b/055mPEMMF.d
Date : 06-OCT-2005 14:30
Client ID: PEMMF
Sample Info: PEMMF
Volume Injected (uL): 1.0
Column phase: clpest2

Instrument: tracego83.i
Operator: 2512
Column diameter: 0.53



CompuChem Environmental Corporation

Lab Smp Id	: PEMMF	Client Smp Id	: PEMMF
Sample Type	: PEM	Sublist	: PEM
Inj Date	: 06-OCT-2005 14:30	Inst ID	: TRACEGC83
Operator	: 2512	Spike Sublist	: PEM
Method	: /chem/tracegc83.i/m051005c.b/2ul0LM04_clpest2v6.m		
Misc. Info	: None		

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CALC AMT ON-COLUMN (Ng)	%D	%D LIMIT	FLAGS
0.14			3386							
0.30			320							
0.41			303							
0.51			1270							
0.58			1912							
0.71			6784							
0.89			21774							
1.23			1158							
1.27			2039							
1.50			253							
2.22			1127							
2.41			374							
2.83			165							
3.51			199							
4.16			360							
4.29	4.23	4.33	21690	1069850	Tetrachloro-m-xylene	0.020000	0.020274	1.4	25.0	
5.18			1068							
5.83	5.77	5.87	18231	2064950	alpha-BHC	0.010000	0.008829	-11.7	25.0	
6.41			629							
6.61			257							
6.76	6.69	6.79	17664	1903750	gamma-BHC (Lindane)	0.010000	0.009278	-7.2	25.0	
[illegible]4	6.98	7.08	7901	807050	beta-BHC	0.010000	0.009789	-2.1	25.0	
			157							
[illegible]6			287							
11.09			537							
11.75	11.66	11.80	410	1770050	4,4'-DDE	0.000000	0.000232			J
12.66	12.58	12.72	77173	1510625	Endrin	0.050000	0.051087	2.2	25.0	
13.01			299							
13.26	13.17	13.31	3325	1303075	4,4'-DDD	0.000000	0.002551			J
13.64			310							
14.04	13.96	14.10	137395	1522700	4,4'-DDT	0.100000	0.090231	-9.8	25.0	
14.71			3285							
14.98			319							
15.11			510							
15.98	15.89	16.03	163281	823570	Methoxychlor	0.250000	0.198260	-20.7	25.0	
16.17	16.09	16.23	2293	1712350	Endrin ketone	0.000000	0.001339			J
16.31			302							
16.40			2571							
16.83			1666							
16.92			1070							
17.14			884							
17.27			923							

CompuChem Environmental Corporation

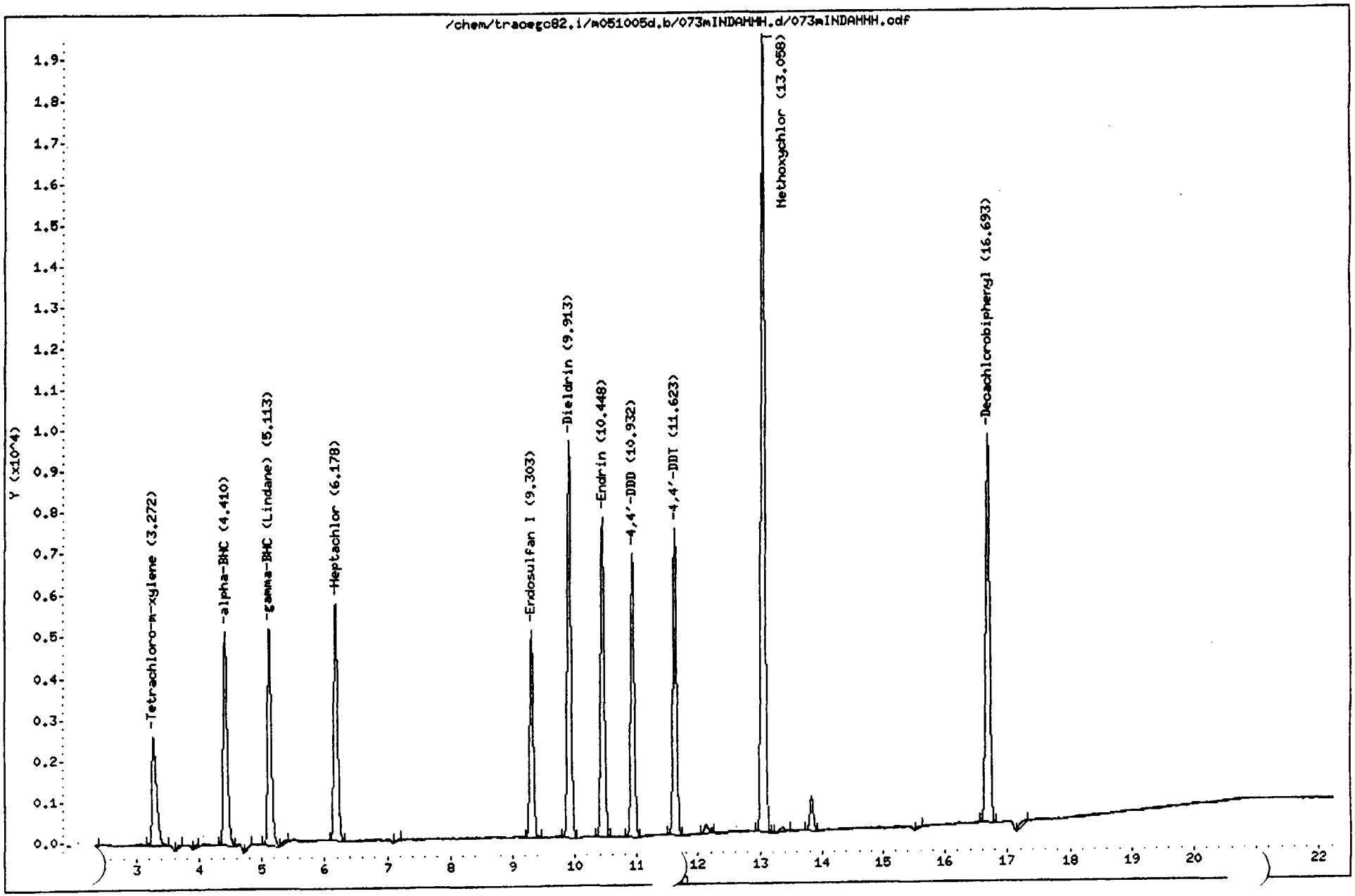
Lab Smp Id : PEMMF
Client Smp Id : PEMMF
Sample Type : PEM
Sublist : PEM
Inj Date : 06-OCT-2005 14:30
Inst ID :
Operator : 2512
Spike Sublist : PEM
Method : /chem/tracegc83.i/m051005c.b/2ul0LM04_clpest2v6.m
Misc. Info : None

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CALC AMT ON-COLUMN (Ng)	%D	%D LIMIT	FLAGS
17.39		512							
17.84		119							
18.01		95							
18.08		110							
18.64		2362							
18.96		3903							
19.62	19.51 19.71	32390	1977350	Decachlorobiphenyl	0.020000	0.016381	-18.1	25.0	
20.09		359							
20.23		228							
20.79		141							
21.16		140							
21.38		141							
21.98		2071							

Data File: /chem/tracegc82.i/m051005d.b/073mINDAMMH.d
Date : 06-OCT-2005 22:45
Client ID: INDAMMH
Sample Info: INDAMMH
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc82.i

Operator: 2612
Column diameter: 0.53



CompuChem Environmental Corporation

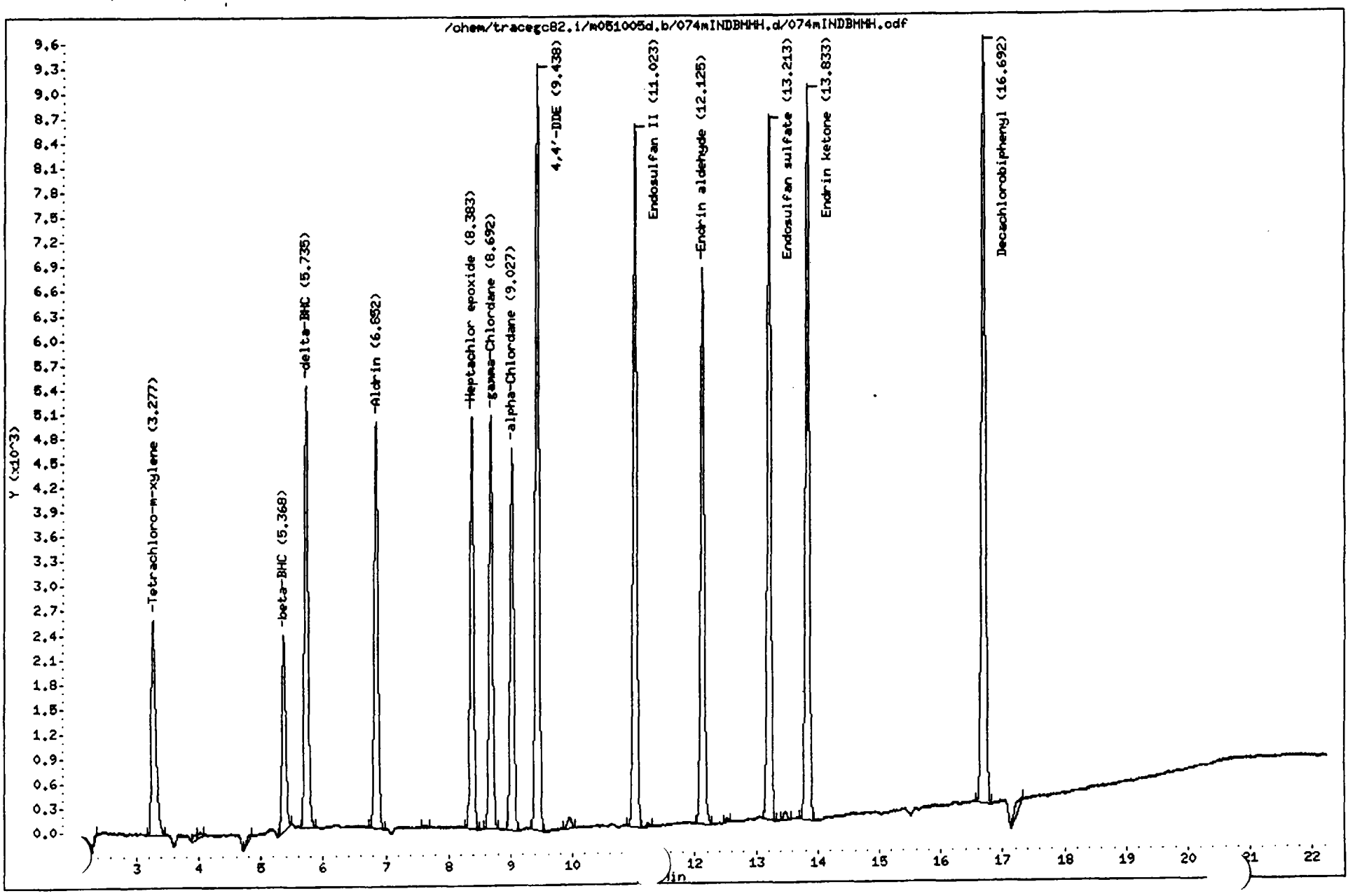
Lab Smp Id : INDAMMH Client Smp Id : INDAMMH
Sample Type : CONT CAL: Level 2 Sublist : INDA
Inj Date : 06-OCT-2005 22:45 Inst ID : TRACEGC82
Operator : 2512
Method : /chem/tracegc82.i/m051005d.b/2ulOLM04_clpestv6.m
Misc. Info : None

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CALC AMT ON-COLUMN (Ng)	%D	%D LIMIT	FLAGS
0.15			2984							
0.72			10880							
0.88			10054							
1.14			383							
1.57			269							
2.20			1279							
2.37			354							
3.27	3.21	3.31	13648	719050	Tetrachloro-m-xylene	0.020000	0.018981	-5.1	25.0	
3.68			242							
3.94			279							
4.41	4.34	4.44	22243	1186150	alpha-BHC	0.020000	0.018753	-6.2	25.0	
4.83			266							
5.11	5.05	5.15	21865	1121350	gamma-BHC (Lindane)	0.020000	0.019499	-2.5	25.0	
5.37			356							
6.18	6.11	6.21	23945	1280200	Heptachlor	0.020000	0.018704	-6.5	25.0	
7.17			123							
9.30	9.21	9.35	20677	1100200	Endosulfan I	0.020000	0.018794	-6.0	25.0	
9.91	9.82	9.96	38665	1030725	Dieldrin	0.040000	0.037513	-6.2	25.0	
10.45	10.36	10.50	31110	762275	Endrin	0.040000	0.040812	2.0	25.0	
10.93	10.84	10.98	27388	709125	4,4'-DDD	0.040000	0.038622	-3.4	25.0	
11.62	11.53	11.67	30378	840075	4,4'-DDT	0.040000	0.036161	-9.6	25.0	
12.12			1038							
13.06	12.97	13.11	81488	460690	Methoxychlor	0.200000	0.176882	-11.6	25.0	
13.36			577							
13.83			3355							
15.59			218							
16.69	16.57	16.77	42294	1191025	Decachlorobiphenyl	0.040000	0.035511	-11.2	25.0	
17.30			744							

Data File: /chem/tracegc82.i/m051005d.b/074mINDBMMH.d
Date : 06-OCT-2005 23:11
Client ID: INDBMMH
Sample Info: INDBMMH
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc82.i

Operator: 2612
Column diameter: 0.53



CompuChem Environmental Corporation

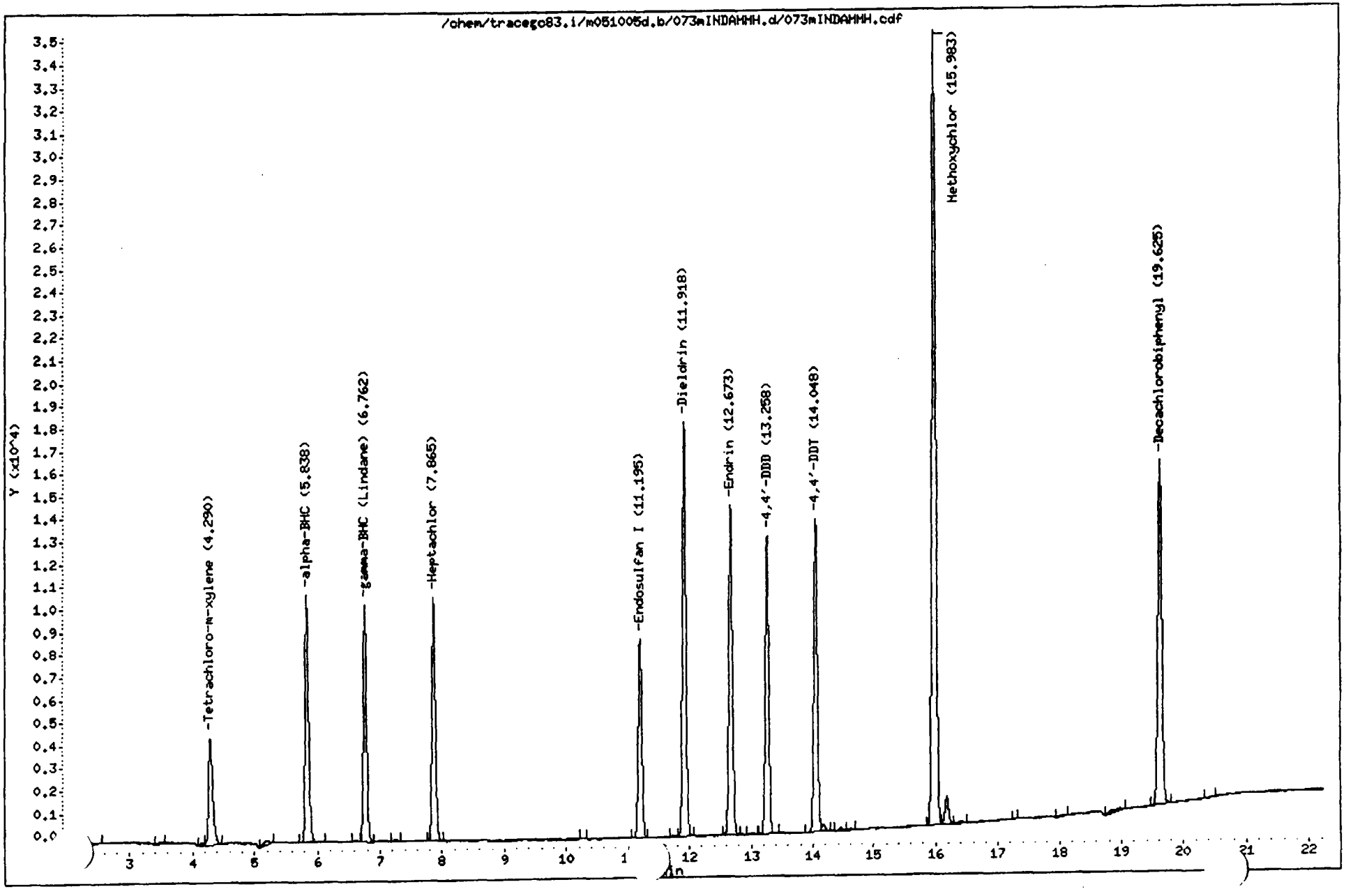
Lab Smp Id : INDBMMH
Client Smp Id : INDBMMH
Sample Type : CONT CAL: Level 2
Sublist : INDB
Inj Date : 06-OCT-2005 23:11
Inst ID : TRACEGC82
Operator : 2512
Method : /chem/tracegc82.i/m051005d.b/2ulOLM04_clpestv6.m
Misc. Info : None

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CALC AMT ON-COLUMN (Ng)	%D	%D LIMIT	FLAGS
0.14			2972							
0.72			8148							
0.87			8890							
1.15			670							
1.62			681							
2.19			1090							
2.37			214							
3.28	3.21	3.31	13326	719050	Tetrachloro-m-xylene	0.020000	0.018532	-7.3	25.0	
3.94			269							
4.04			237							
4.81			268							
5.37	5.30	5.40	9853	520750	beta-BHC	0.020000	0.018921	-5.4	25.0	
5.74	5.66	5.76	21167	1126550	delta-BHC	0.020000	0.018789	-6.1	25.0	
6.85	6.78	6.88	20184	1080000	Aldrin	0.020000	0.018689	-6.6	25.0	
7.62			124							
8.38	8.29	8.43	20110	1070700	Heptachlor epoxide	0.020000	0.018782	-6.1	25.0	
8.69	8.60	8.74	20468	1099000	gamma-Chlordane	0.020000	0.018625	-6.9	25.0	
9.03	8.93	9.07	18764	981750	alpha-Chlordane	0.020000	0.019113	-4.4	25.0	
9.44	9.34	9.48	37316	994300	4,4'-DDE	0.040000	0.037530	-6.2	25.0	
9.95			677							
11.02	10.93	11.07	34780	927200	Endosulfan II	0.040000	0.037511	-6.2	25.0	
11.22			241							
12.12	12.03	12.17	27910	743350	Endrin aldehyde	0.040000	0.037547	-6.1	25.0	
12.53			165							
13.21	13.12	13.26	35644	945750	Endosulfan sulfate	0.040000	0.037688	-5.8	25.0	
13.46			482							
13.83	13.74	13.88	36728	979550	Endrin ketone	0.040000	0.037495	-6.3	25.0	
16.69	16.57	16.77	41962	1191025	Decachlorobiphenyl	0.040000	0.035232	-11.9	25.0	
17.30			903							

Data File: /chem/tracegc83.i/m051005d.b/073mINDAMMH.d
Date : 06-OCT-2005 22:45
Client ID: INDAMMH
Sample Info: INDAMMH
Volume Injected (uL): 1.0
Column phase: clpest2

Instrument: tracegc83.i

Operator: 2612
Column diameter: 0.53



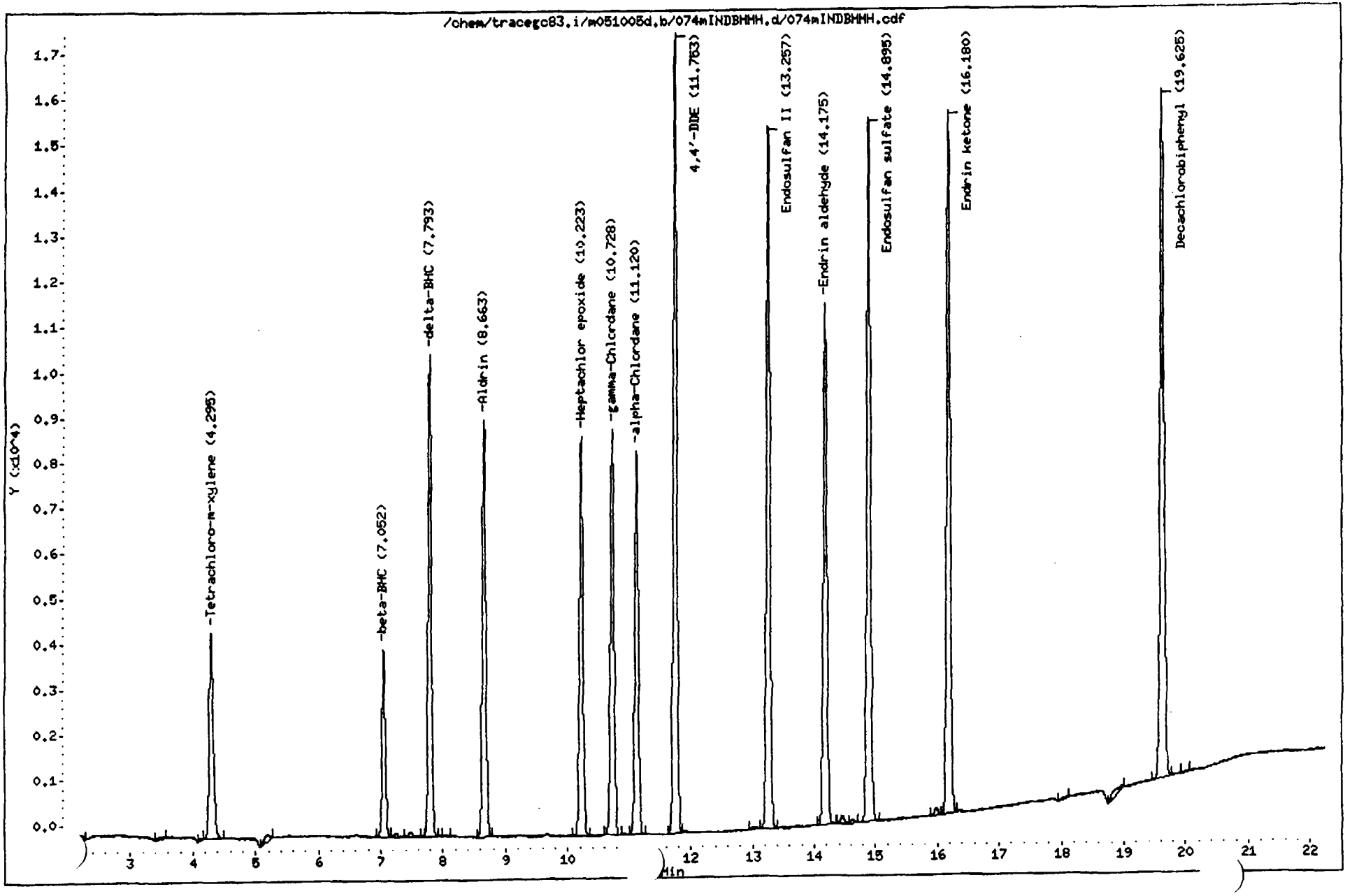
CompuChem Environmental Corporation

Lab Smp Id : INDAMMH
Client Smp Id : INDAMMH
Sample Type : CONT CAL: Level 2
Sublist : INDA
Inj Date : 06-OCT-2005 22:45
Inst ID : TRACEGC83
Operator : 2512
Method : /chem/tracegc83.i/m051005d.b/2ulOLM04_clpest2v6.m
Misc. Info : None

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CALC AMT ON-COLUMN (Ng)	%D	%D LIMIT	FLAGS
0.14			1989							
0.56			911							
0.72			8465							
0.86			3460							
0.90			12038							
1.21			402							
1.28			1796							
1.49			579							
2.23			892							
2.44			495							
3.52			262							
4.17			404							
4.29	4.23	4.33	21984	1069850	Tetrachloro-m-xylene	0.020000	0.020549	2.7	25.0	
5.18			1240							
5.84	5.77	5.87	40372	2064950	alpha-BHC	0.020000	0.019551	-2.2	25.0	
6.62			249							
6.76	6.69	6.79	37196	1903750	gamma-BHC (Lindane)	0.020000	0.019539	-2.3	25.0	
7.25			339							
7.86	7.80	7.90	41548	2134550	Heptachlor	0.020000	0.019464	-2.7	25.0	
10.27			157							
11.20	11.11	11.25	35155	1834350	Endosulfan I	0.020000	0.019165	-4.2	25.0	
11.76			206							
11.92	11.83	11.97	70905	1848950	Dieldrin	0.040000	0.038349	-4.1	25.0	
12.67	12.58	12.72	58219	1510625	Endrin	0.040000	0.038540	-3.6	25.0	
13.01			182							
13.26	13.17	13.31	50382	1303075	4,4'-DDD	0.040000	0.038664	-3.3	25.0	
14.05	13.96	14.10	55440	1522700	4,4'-DDT	0.040000	0.036409	-9.0	25.0	
14.18			1156							
14.46			630							
14.63			299							
15.98	15.89	16.03	146665	823570	Methoxychlor	0.200000	0.178084	-11.0	25.0	
16.18			5148							
16.41			545							
17.29			136							
18.11			305							
18.97			1631							
19.62	19.51	19.71	68131	1977350	Decachlorobiphenyl	0.040000	0.034456	-13.9	25.0	
20.48			102							

Data File: /chem/tracegc83.i/m051005d.b/074mINDBHMH.d
Date : 06-OCT-2005 23:11
Client ID: INDBHMH
Sample Info: INDBHMH
Volume Injected (uL): 1.0
Column phase: clpest2

Instrument: tracegc83.i
Operator: 2612
Column diameter: 0.53



CompuChem Environmental Corporation

Lab Smp Id : INDBMMH Client Smp Id : INDBMMH
Sample Type : CONT CAL: Level 2 Sublist : INDB
Inj Date : 06-OCT-2005 23:11 Inst ID : TRACEGC83
Operator : 2512
Method : /chem/tracegc83.i/m051005d.b/2ul0LM04_clpest2v6.m
Misc. Info : None

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CALC AMT ON-COLUMN (Ng)	%D	%D LIMIT	FLAGS
0.14			5856							
0.51			3482							
0.57			1695							
0.72			9187							
0.90			14673							
1.18			338							
1.28			1631							
1.49			511							
2.21			704							
3.50			350							
4.18			135							
4.30	4.23	4.33	20636	1069850	Tetrachloro-m-xylene	0.020000	0.019288	-3.6	25.0	
5.20			1144							
7.05	6.98	7.08	15272	807050	beta-BHC	0.020000	0.018924	-5.4	25.0	
7.25			491							
7.48			515							
7.79	7.72	7.82	36637	1879650	delta-BHC	0.020000	0.019491	-2.5	25.0	
8.06			157							
8.66	8.59	8.69	35302	1839200	Aldrin	0.020000	0.019194	-4.0	25.0	
10.22	10.14	10.28	34421	1782000	Heptachlor epoxide	0.020000	0.019316	-3.4	25.0	
10.73	10.64	10.78	35578	1846350	gamma-Chlordane	0.020000	0.019269	-3.7	25.0	
10.93			166							
11.12	11.03	11.17	33916	1717800	alpha-Chlordane	0.020000	0.019744	-1.3	25.0	
11.75	11.66	11.80	68224	1770050	4,4'-DDE	0.040000	0.038544	-3.6	25.0	
13.00			319							
13.26	13.17	13.31	61474	1601525	Endosulfan II	0.040000	0.038385	-4.0	25.0	
14.18	14.08	14.22	46523	1196525	Endrin aldehyde	0.040000	0.038881	-2.8	25.0	
14.45			779							
14.62			360							
14.90	14.81	14.95	63012	1655950	Endosulfan sulfate	0.040000	0.038052	-4.9	25.0	
15.97			691							
16.18	16.09	16.23	63286	1712350	Endrin ketone	0.040000	0.036959	-7.6	25.0	
18.10			203							
18.96			1383							
19.62	19.51	19.71	68011	1977350	Decachlorobiphenyl	0.040000	0.034395	-14.0	25.0	
20.05			91							

COMPUCHEM a division of Liberty Analytical Corp Instrument ID 80 / 81

GC EXTRACTABLES RUN LOG

COMPUCHEM LOGBOOK 4 TTT 23

Sequence ID: d050930

DATE 9/30/05

SHIFT/S(A)_____(B)_____

Amt. Inj. 2 µl (1 ul per column)

Method : 8081A 8082 8151A CLP Other_____

		FILE NAME		DATE	CompuChem #	CASE/SDG#	CHEMIST	COMMENTS/ETC./DISPOSITION
1	✓	1		9/30/05	Hexane	Sol	2512	
2	✓	2		/ /	↓	↓	↓	
3		3	✓	/ /	RESC84	57382		
4		4	✓	/ /	PEM84	57958		
5		5	✓	/ /	AR1660'84	57612		
6		6	✓	/ /	AR122184	57679		
7		7	✓	/ /	AR123284	57677		
8		8	✓	/ /	AR124684	57580		
9		9	✓	/ /	AR124884	57687		
10		10	✓	/ /	AR125484	57672		
11		11	✓	/ /	TOXAP1184	57605		
12		12	✓	/ /	INDAC84	57636		
13		13	✓	/ /	INDBC84	57485		
14		14	✓	/ /	INDAH84	57933		
15		15	✓	/ /	INDBH84	57782		
16		16	✓	/ /	INDAH84	57671		
17		17	✓	/ /	INDBH84	57486		
18		18	✓	/ /	PIBUK8455	57833		
19		19	✓	/ /	PET55	57958	↓	
20				/ /				
21				/ /				
22				/ /		6 10/3/05		
23				/ /				
24				/ /				

SUPERVISOR APPROVAL TAJ

DATE 10/3/05

Hexane Lot No CM871

The presence of the Chemist's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist together with the chemist's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

6/22/05:jad

516

COMPUCHEM a division of Liberty Analytical Corp Instrument ID 80 / 81

GC EXTRACTABLES RUN LOG

COMPUCHEM LOGBOOK 4 TTT 23

Sequence ID: 2050930d

DATE 10 / 1 / 05

SHIFT/S(A)_____(B)_____

Amt. Inj. 2 µl (1 ul per column)

Method : 8081A 8082 8151A CLP Other_____

		FILE NAME		DATE	CompuChem #	CASE/SDG#	CHEMIST	COMMENTS(ETC.)/DISPOSITION
1		61	✓	10/1/05	PIBUK JGJH	57945	2564	
2		62	✓	/ /	INDAMJH	57953		
3		63	✓	/ /	INDBMJH	57782		
4		64	✓	/ /	81127	VARIOUS		
5		65	✓	/ /	28			
6		66	✓	/ /	29	7829		
7		67	✓	/ /	30			
8		68	✓	/ /	~~778903~~ 782903	7889		
9		69	✓	/ /	782901	7829		
10		70	✓	/ /	02			
11		71		/ /	Hexane	Sat		
12		72		/ /				
13		73		/ /				
14		74		/ /				
15		75		/ /				
16				/ /				
17				/ /				
18				/ /				
19				/ /				
20				/ /				
21				/ /				
22				/ /				
23				/ /				
24				/ /				

SUPERVISOR APPROVAL [signature]

DATE 10/2/5

Hexane Lot No CM871

The presence of the Chemist's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist together with the chemist's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

6/22/05:jad

COMPUCHEM a division of Liberty Analytical Corp Instrument ID 80 / 81

GC EXTRACTABLES RUN LOG

COMPUCHEM LOGBOOK 4 TTT 23

Sequence ID: [illegible]

DATE 10/1/05

SHIFT/S(A)_____(B)_____

Amt. Inj. 2 µl (1 ul per column)

Method : 8081A 8082 8151A CLP Other_____

		FILE NAME		DATE	CompuChem #	CASE/SDG#	CHEMIST	[illegible]
1		76	✓	10/1/05	PIBUK JJJ	57945	2500	
2		77	✓	/ /	PEHJJ	57958		
3		78		/ /	~~782403~~ 778403	7829		
4		79	✓	/ /	~~7829~~ 04 OP 10/7/5			
5		80	✓	/ /	05			
6		81	✓	/ /	07			
7		82		/ /	Hexane	Sat		
8		83		/ /	81131	VARIOD		
9		84		/ /	777204	7777		
10		85		/ /	783601	7832		
11		86		/ /	Hexane	Sat		
12		87		10/2/05				
13		88		/ /				
14		89		/ /				
15		90		/ /				
16				/ /				
17				/ /				
18				/ /				
19				/ /				
20				/ /				
21				/ /				
22				/ /				
23				/ /				
24				/ /				

SUPERVISOR APPROVAL [illegible]

DATE 10/7/5

Hexane Lot No CM871

The presence of the Chemist's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist together with the chemist's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

6/22/05:jad

COMPUCHEM a division of Liberty Analytical Corp Instrument ID 80 / 81 DATE 10/2/05

GC EXTRACTABLES RUN LOG Sequence ID: d053032f SHIFT/S(A)_____(B)_____

COMPUCHEM LOGBOOK 4 TTT 23 Amt. Inj. 2 µl (1 ul per column)

Method : 8081A 8082 8151A (CLP) Other_____

	CAL	FILE NAME	ANAL	DATE	CompuChem #	CASE/SDG#	CHEMIST	COMMENTS/EFC DISPOSITION
1		91		10/2/05	PIBLKJKJL	57944	2584	
2		92		/ /	INDAHJL	57933	↓	
3		93		/ /	INDBHJL	57782		
4				/ /				
5				/ /				
6				/ /				
7				/ /				
8				/ /				
9				/ /				
10				/ /				
11				/ /				
12				/ /				
13				/ /				
14				/ /				
15				/ /				
16				/ /				
17				/ /				
18				/ /				
19				/ /				
20				/ /				
21				/ /				
22				/ /				
23				/ /				
24				/ /				

SUPERVISOR APPROVAL

DATE 8/10/7/5

Hexane Lot No CM87/

The presence of the Chemist's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist together with the chemist's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

6/22/05:jad

COMPUCHEM a division of Liberty Analytical Corp Instrument ID 82 / 83

GC EXTRACTABLES RUN LOG

COMPUCHEM LOGBOOK 4 M(4) 22

Sequence ID: M051005

DATE 10/5/05

SHIFT/S(A)_____(B)_____

Amt. Inj. 2 ul (1 ul on column)

Method : 8081A 8082 8151A CLP Other_____

		FILE NAME		DATE	CompuChem #	CASE/SDG#	CHEMIST	COMMENTS(ETC.)/DISPOSITION
1	✓	1		10/5/05	Hexane	Sat	2512	
2	✓	2		/ /	↓	↓		
3		3	✓	/ /	REOC94	57382		
4		4	✓	/ /	PEH94	57983		
5		5	✓	/ /	AR166094	57612		
6		6	✓	/ /	AR122194	57679		
7		7	✓	/ /	AR123294	57678		
8		8	✓	/ /	AR124294	57580		
9		9	✓	/ /	AR124894	57687		
10		10	✓	/ /	AR125494	57672		
11		11	✓	/ /	TOXAPH94	57609		
12		12	✓	/ /	INDAC94	57636		
13		13	✓	/ /	INDBC94	57485		
14		14	✓	/ /	INDAH94	57933		
15		15	✓	/ /	INDBH94	57782		
16		16	✓	/ /	INDAH94	57671		
17		17	✓	/ /	INDBH94	57486		
18		18	✓	/ /	PIBLK94S	57945		
19		19	✓	/ /	PEH95	57983		
20				/ /				
21				/ /		6/10/05		
22				/ /				
23				/ /				
24				/ /				

SUPERVISOR APPROVAL TAJ

DATE 10/6/05

Hexane Lot No CM871

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

8/09/05:jad

3389

519

COMPUCHEM a division of Liberty Analytical Corp Instrument ID 82 / 83 DATE 10/6/05

GC EXTRACTABLES RUN LOG Sequence ID: MS1005C SHIFT/S(A)_____(B)_____

COMPUCHEM LOGBOOK 4 M(4) 22 Amt. Inj. 2 ul (1 ul on column)

Method : 8081A 8082 8151A (CLP) Other_____

	REVIEWED	FILE NAME	REPORTED	DATE	CompuChem #	CASE/SDG#	CHEMIST	COMMENTS(ETC.)/DISPOSITION
1		54	✓	10/6/05	PIBLKMEMF	51945	256	
2		55	✓	/ /	PEMMF	57933	J	
3		56	✓	/ /	A41005F1	GPC	202	
4		57	✓	/ /	51127	WAR10%		R1
5		58	✓	/ /	28	J		
6		59	✓	/ /	29	7825		
7		60	✓	/ /	30	J		
8		61	✓	/ /	78903	7859		
9		62	✓	/ /	78901	7825		
10		63	✓	/ /	02			
11		64	✓	/ /	03			
12		65	✓	/ /	04			
13		66	✓	/ /	05			
14		67	✓	/ /	06			
15		68		/ /	Hexane	Solvent		
16		69		/ /				
17		70		/ /				
18		71		/ /				
19				/ /				
20				/ /				
21				/ /				
22				/ /				
23				/ /				
24				/ /				

SUPERVISOR APPROVAL Other

DATE 10/7/5

Hexane Lot No CM871

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

8/09/05:jad

521

COMPUCHEM a division of Liberty Analytical Corp Instrument ID 82 / 83 DATE ___/___/___

GC EXTRACTABLES RUN LOG Sequence ID: M05700.sd SHIFT/S(A)_____(B)_____

COMPUCHEM LOGBOOK 4 M(4) 22 Amt. Inj. 2 ul (1 ul on column)

Method : 8081A 8082 8151A CLP Other_____

		FILE NAME		DATE	CompuChem #	CASE/SDG#	CHEMIST	COMMENTS(ETC.)/DISPOSITION
1		72	/	10/6/05	PIBUCHGMH	57945	2572	
2		73	/	/ /	INDAHMH	~~57943~~ 57933		
3		74	/	/ /	INDGHMH	57782		
4		75	/	/ /	A210061	GPC		
5		76		10/7/05	81763	7873		
6		77		/ /	64			
7		78		/ /	787301			
8		79		/ /	81536	7823		
9		80		/ /	37			
10		81		/ /	38			
11		82		/ /	782301			
12		83		/ /	02			
13		84		/ /	03			
14		85		/ /	Hexane	SA		
15		86		/ /				
16		87		/ /				
17		88		/ /				
18				/ /				
19				/ /				
20				/ /				
21				/ /				
22				/ /				
23				/ /				
24				/ /				

SUPERVISOR APPROVAL [signature]

DATE 10/7/5

Hexane Lot No C07871

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

8/09/05:jad

4. Pesticide/Aroclor Raw QC Data

   a. Blank Data

   b. Laboratory Control Sample Data

   c. Pesticides Matrix Spike Data

   d. Pesticides Matrix Spike Duplicate Data

a. Blank Data

Arranged by type of blank (method, instrument, sulfur cleanup) and shall be in chronological order, by instrument.

- Tabulated Results (Form I LCP)

- Chromatograms and data system printout(s) for each GC column and instrument used for analysis.

1LCE
LOW CONCENTRATION WATER PESTICIDE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

PBLKMA

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 81127 Date Received: _____

Sample Volume: 1000(ML) Date Extracted: 09/28/2005

Concentrated Extract Volume: 2000(UL) Date Analyzed: 10/01/2005

Injection Volume: 1.0(UL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N Extraction: (Sepf/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

Data File: /chem/tracegc80.i/d050930d0LC03.b/064d81127.d

Page 1

Date : 01-OCT-2005 15:52

Client ID: PBLKHA

Instrument: tracegc80.i

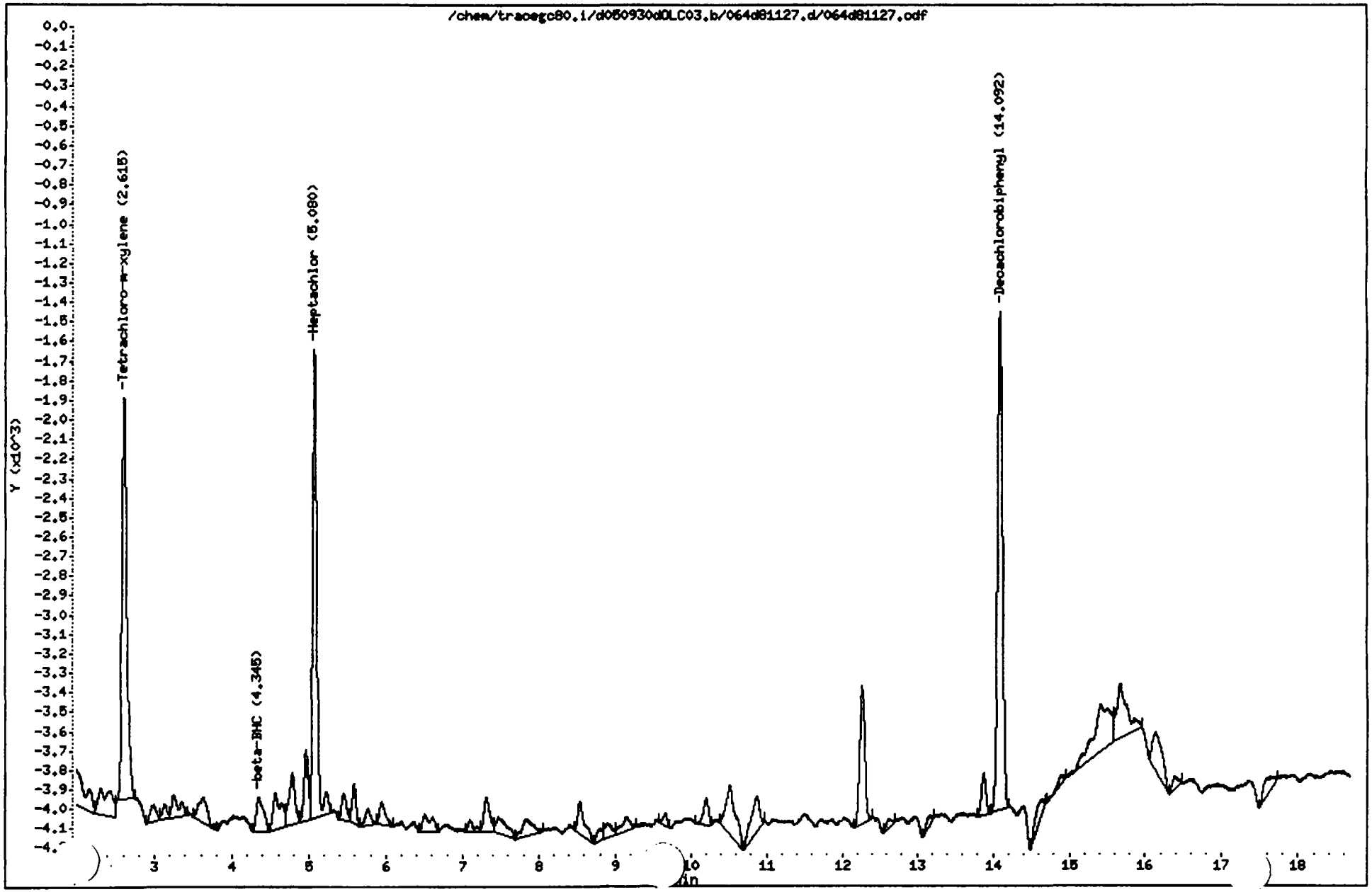
Sample Info: 81127

Volume Injected (uL): 1.0

Operator: 2461

Column phase: clpest

Column diameter: 0.53



CompuChem Environmental Corporation

Lab Smp Id : 81127 Client Smp Id : PBLKMA
Sample Type : BLANK Sublist : olm03
Inj Date : 01-OCT-2005 15:52 Inst ID : TRACEGC80
Operator : 2461
Method : /chem/tracegc80.i/d050930dOLC03.b/olc03_clpest_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 2000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
0.13			750								
0.60			12194								
0.69			80283								
1.06			3954								
1.13			7744								
1.42			7338								
1.74			402								
1.89			6821								
2.31			1490								
2.62	2.55	2.65	8952	513950	Tetrachloro-m-xylene	0.017418	0.034836		87.1	30 - 150	M
3.00			508								
3.14			331								
3.25			750								
3.64			1011								
4.34	4.32	4.42	1158	303500	beta-BHC	0.003815	0.007631	0.010000			J
4.56			1375								
4.79			1502								
4.97			1390								
5.08	5.00	5.10	9029	784550	Heptachlor	0.011509	0.023017	0.010000			
5.45			603								
5.59			735								
5.76			457								
5.95			689								
6.51			738								
7.10			315								
7.31			924								
7.48			841								
7.85			875								
8.54			1036								
8.80			323								
8.90			461								
9.14			542								
9.67			297								
10.21			645								
10.52			2245								
10.87			1495								
12.26			3393								

CompuChem Environmental Corporation

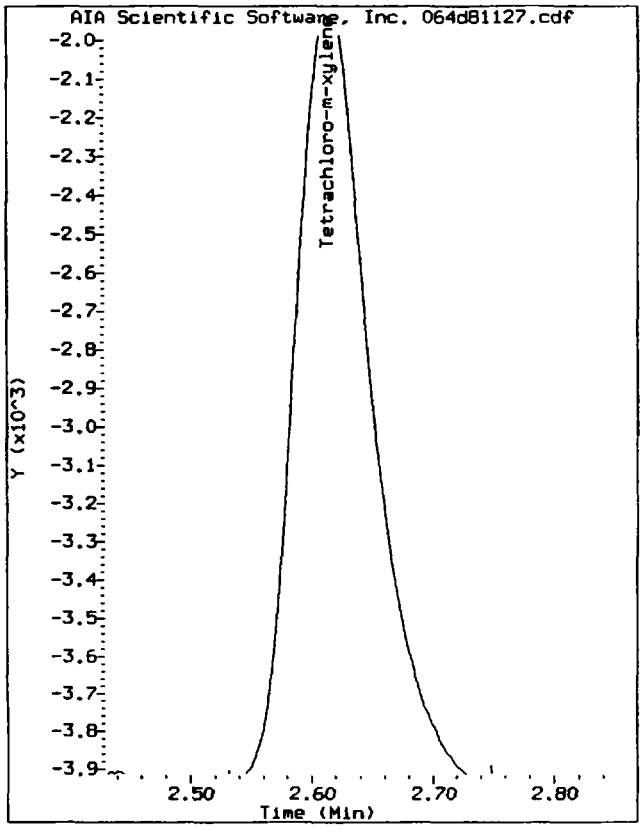
Smp Id : 81127 Client Smp Id : PBLKMA
Sample Type : BLANK Sublist : olm03
Inj Date : 01-OCT-2005 15:52 Inst ID :
Operator : 2461
Method : /chem/tracegc80.i/d050930dOLC03.b/olc03_clpest_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

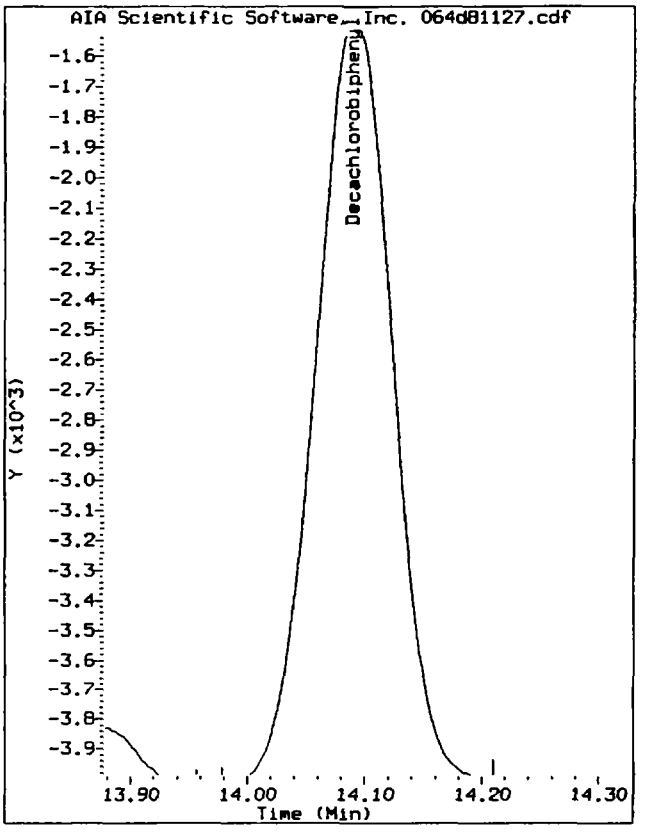
DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 2000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
12.65		205								
13.17		288								
13.88		901								
14.09	13.99 14.19	11550	615700	Decachlorobiphenyl	0.018759	0.037518		93.8	30 - 150	M
14.64		826								
14.90		277								
15.41		3879								
15.67		2700								
16.14		1815								
16.39		313								
17.69		717								

Manually Integrated Peaks



Start: 2.53 Stop: 2.75



Start: 13.98 Stop: 14.21

Data File: /chem/tracegc81.i/d050930d0LC03.b/064d81127.d

Date : 01-OCT-2005 15:52

Client ID: PBLKHA

Instrument: tracegc81.i

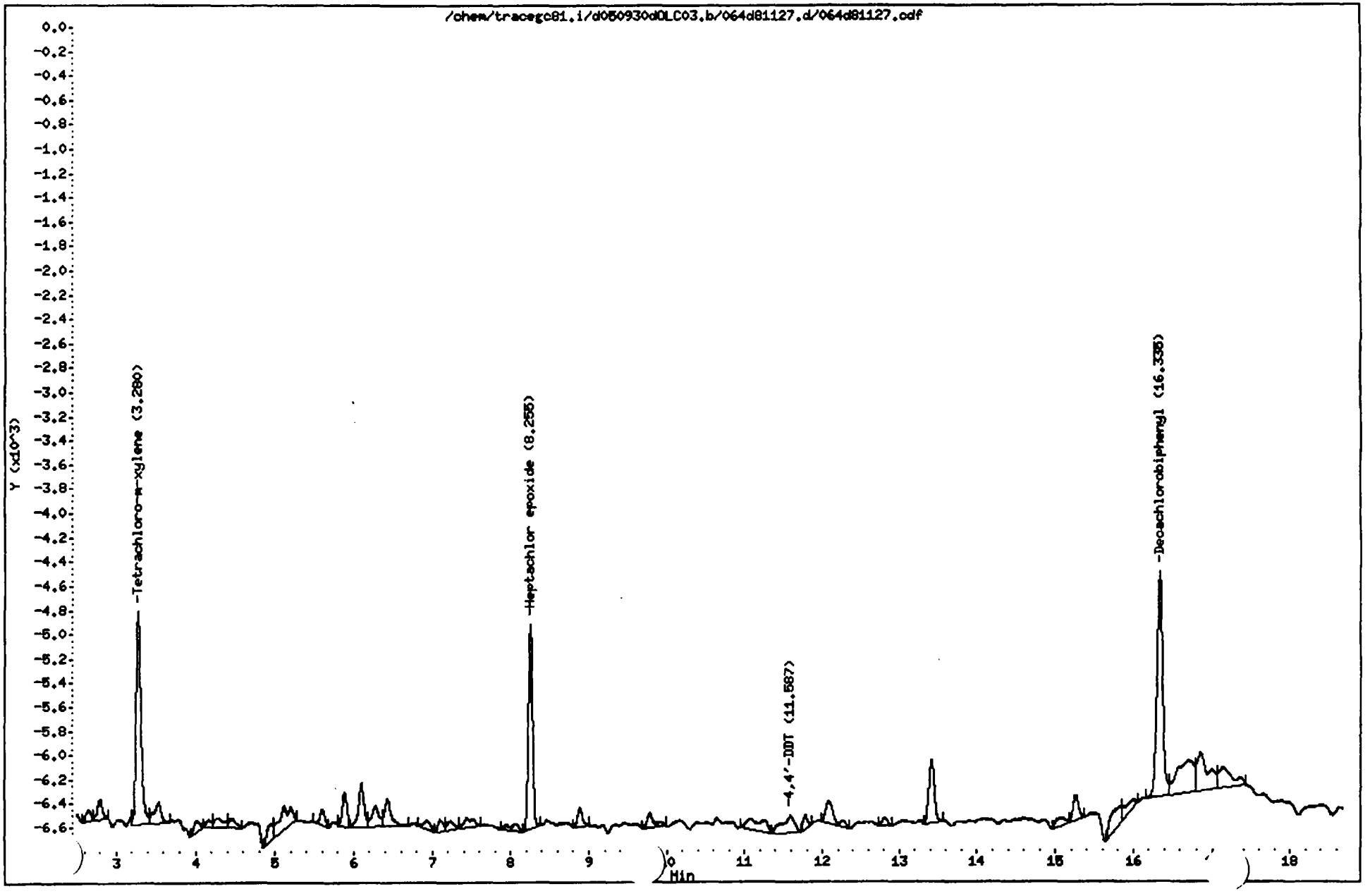
Sample Info: 81127

Volume Injected (uL): 1.0

Operator: 2461

Column phase: olpest2

Column diameter: 0.53



CompuChem Environmental Corporation

Lab Smp Id : 81127 Client Smp Id : PBLKMA
Sample Type : BLANK Sublist : olm03
Inj Date : 01-OCT-2005 15:52 Inst ID : TRACEGC81
Operator : 2461
Method : /chem/tracegc81.i/d050930dOLC03.b/olc03_clpest2_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 2000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
0.14			702								
0.58			20768								
0.67			64414								
1.10			4015								
1.41			5101								
1.66			1910								
1.95			343								
2.10			464								
2.19			4426								
2.65			422								
2.80			750								
3.28	3.22	3.32	7757	423700	Tetrachloro-m-xylene	0.018308	0.036616		91.5	30 - 150	
3.54			1100								
4.02			499								
4.16			327								
4.29			717								
4.46			516								
4.94			863								
5.12			2037								
5.60			603								
5.88			1215								
6.10			1825								
6.27			1114								
6.43			1381								
6.93			470								
7.10			477								
7.23			503								
7.44			743								
7.94			615								
8.26	8.19	8.33	6409	530250	Heptachlor epoxide	0.012087	0.024174	0.010000			
8.88			702								
9.78			781								
11.07			1520								
11.59	11.48	11.62	1662	420675	4,4'-DDT	0.003951	0.007902	0.020000			J
11.78			450								
12.08			1432								
12.81			317								

CompuChem Environmental Corporation

Lab Smp Id : 81127 Client Smp Id : PBLKMA
Sample Type : BLANK Sublist : olm03
Inj Date : 01-OCT-2005 15:52 Inst ID :
Operator : 2461
Method : /chem/tracegc81.i/d050930dOLC03.b/olc03_clpest2_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 2000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
13.41		2633								
15.07		585								
15.25		1049								
15.83		1686								
15.99		885								
16.34	16.23 16.43	9630	482325	Decachlorobiphenyl	0.019966	0.039932		99.8	30 - 150	
16.70		3826								
16.85		3105								
17.13		1909								

EXTRACTION WORKSHEET

Pesticide/PCB, Low Concentration W (LC03.2 + Rev.)

ASSI TO: MARGARET/TRENT

EMP. ID NUMBER: 2583

DATE EXTRACTED/POSTED: 9/28/2005

BATCH NO.: 8031

	COMPUGHEM NUMBER	CLIENT SAMPLE ID	QC SAMPLE TYPE	SAMPLE VOLUME (ml)	RECORD INITIAL pH	pH ADJUSTED (Y/N)	FINAL VOLUME	COMMENTS
1	778903	X06G0	SAMPLE	1000	5	N	2.0	QB PE - 1.0ml ampule added
2	782901	ACSGWPWA26	SAMPLE	1075	7.0	N		
3	782902	ACSGWPWDUP26	SAMPLE	1050	6.0	N		
4	782903	ACSGWPWB26	SAMPLE	1100	7.0	N		QC
5	782904	ACSGWPWT26	SAMPLE	1100	6.0	N		
6	782905	ACSGWPWC26	SAMPLE	1100	6.0	N		
7	782907	ACSGWPWD26	SAMPLE	1100	7.0	N		
8	81130	ACSGWPWB26MSD	MSD	1075	7.0	N		
9	81129	ACSGWPWB26MS	MS	1075	7.0	N		
10	81127	PBLKMA	MB	1000	5.0	N		
11	81128	PMALCS	LCS	1000	5.0	N	2.0	
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								RB

	SURROGATE	430	1.0 ml	573294
	LCS SPIKE	4024	1.0 ml	573296
	MS/MSD	4038	1.0 ml	574551

FLORISIL RUN: RB, 9-28-05
Initials Date

WATERS FLORISIL LOT #: 170634076B

Analysts Initials: Extracted MK

KD RB/JP/JG

FINAL VOLUME VERIFIED RB

SUPERVISOR REVIEWED [signature]

N2 RB

Bottled up RB

SURROGATE & SPIKE ADDED BY NB, 9/28/05
INITALS DATE

WITNESS MK, 9/28/05
INITALS DATE

Manufacturer and lot number of reagents/solvents used CH_2CL_2 - 45166 Na_2SO_4 - 2x43-290-3 ACETONE-C0333 HEXANE-C0065

Rev 7/18/03:dce

1LCE
LOW CONCENTRATION WATER PESTICIDE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

PBLKAM

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 81127R Date Received: _____

Sample Volume: 500(ML) Date Extracted: 10/05/2005

Concentrated Extract Volume: 1000(UL) Date Analyzed: 10/06/2005

Injection Volume: 1.0(UL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N Extraction: (Sepf/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

Data File: /chem/tracegc82.i/m051005c0LC03.b/057m81127.d

Date : 06-OCT-2005 15:57

Client ID: PBLKAM

Sample Info: 81127R

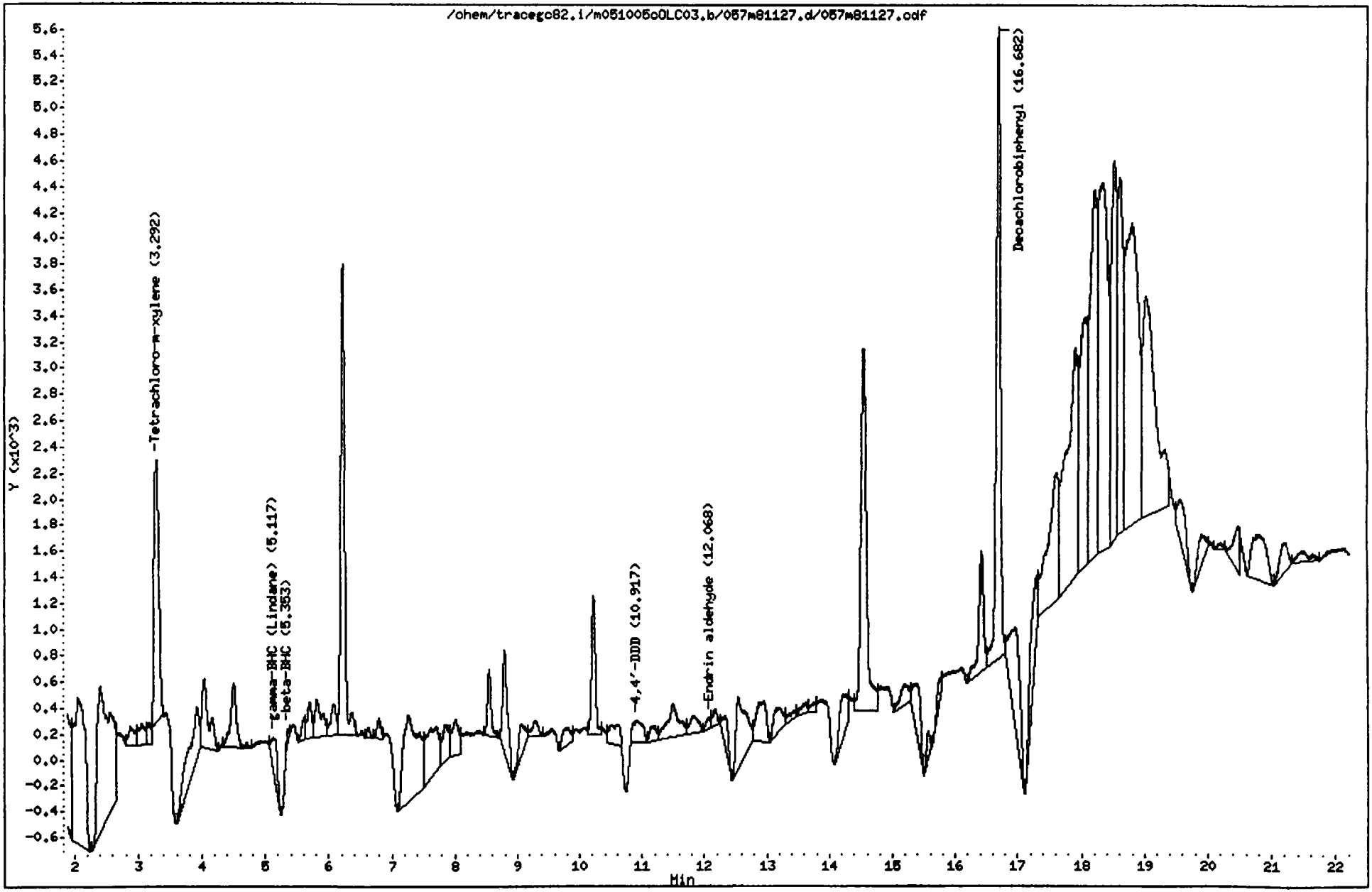
Volume Injected (uL): 1.0

Column phase: olpest

Instrument: tracegc82.i

Operator: 2461

Column diameter: 0.53



CompuChem Environmental Corporation

Lab Smp Id : 81127R Client Smp Id : PBLKAM
Sample Type : BLANK Sublist : olm03
Inj Date : 06-OCT-2005 15:57 Inst ID : TRACEGC82
Operator : 2461
Method : /chem/tracegc82.i/m051005cOLC03.b/olc03_clpest_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 500.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
0.15			6959								
0.72			39596								
0.90			1073904								
1.33			23744								
1.45			16630								
1.71			27218								
2.06			14202								
2.41			15509								
2.88			1074								
3.06			1144								
3.17			678								
3.29	3.21	3.31	10592	719050	Tetrachloro-m-xylene	0.014731	0.029461		73.7	30 - 150	M
3.92			5045								
4.04			3952								
4.50			3407								
	5.05	5.15	2065	1121350	gamma-BHC (Lindane)	0.001842	0.003683	0.010000			J
			278								
5.61			626								
5.70			1343								
5.82			2271								
6.08			1437								
6.22			15481								
6.63			281								
6.80			620								
7.26			10954								
7.63			5613								
7.85			2042								
8.01			2206								
8.54			2222								
8.79			4263								
9.07			1759								
9.28			841								
9.79			1214								
10.22			4534								
10.50			1876								
10.92	10.84	10.98	1947	709125	4,4'-DDD	0.002746	0.005491	0.020000			JM
11.18			885								

10/7/05

CompuChem Environmental Corporation

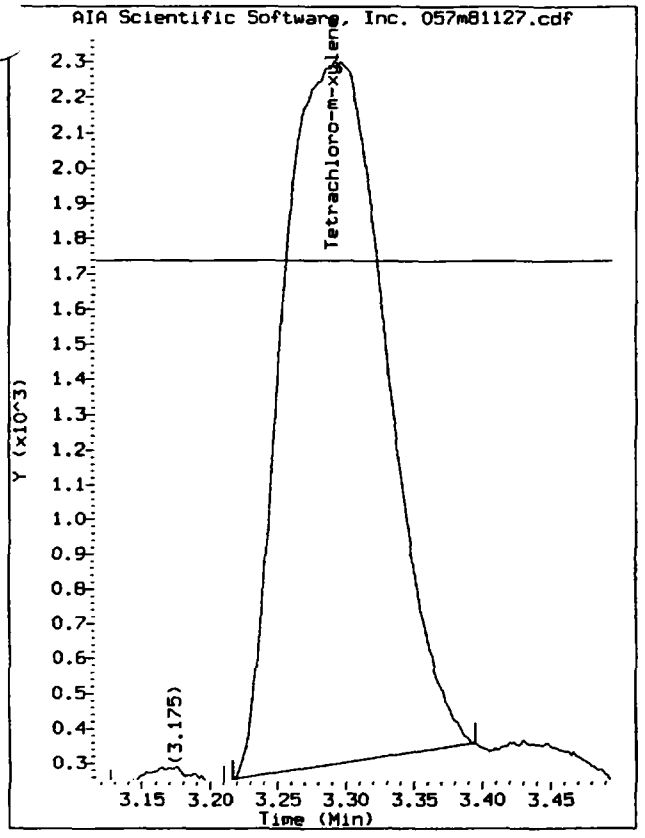
Lab Smp Id : 81127R Client Smp Id : PBLKAM
Sample Type : BLANK Sublist : olm03
Inj Date : 06-OCT-2005 15:57 Inst ID :
Operator : 2461
Method : /chem/tracegc82.i/m051005cOLC03.b/olc03_clpest_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

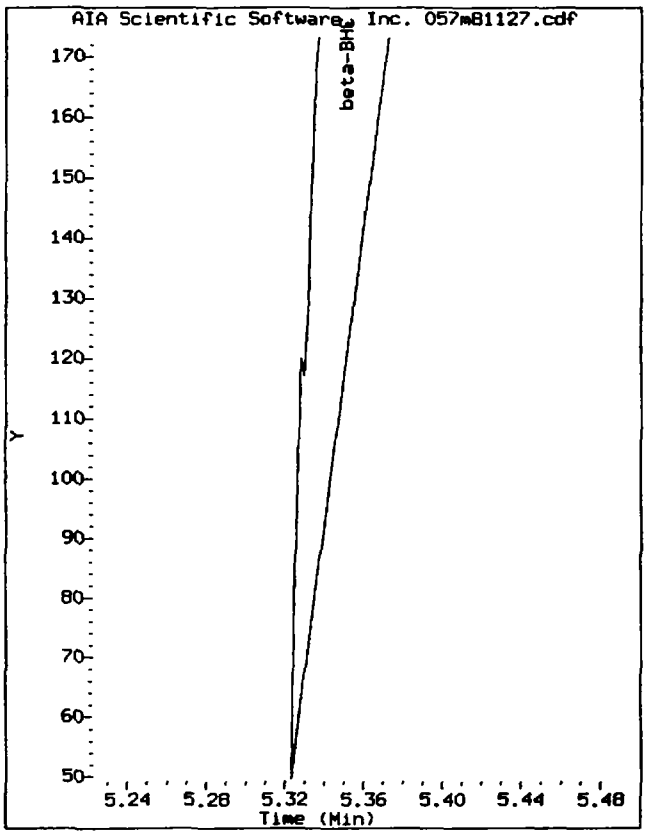
DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 500.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
11.49		3369								
11.83		1286								
12.07		404								
12.18		642								
12.33		1602								
12.53		5717								
12.87		3541								
13.15		1911								
13.43		465								
13.62		558								
13.77		425								
14.26		2741								
14.54		17057								
15.19		1537								
15.37		3262								
15.56		814								
15.76		852								
16.41		5172								
16.68	16.57 16.77	22650	1191025	Decachlorobiphenyl	0.019016	0.038033		95.1	30 - 150	
16.95		8667								
17.31		5592								
17.60		11822								
17.90		22085								
18.06		15988								
18.20		21239								
18.33		29797								
18.51		19064								
18.59		16463								
18.79		32543								
19.01		25129								
19.54		3595								
19.90		2007								
20.19		307								
20.47		2417								
20.80		5627								
21.21		2086								
21.47		1155								

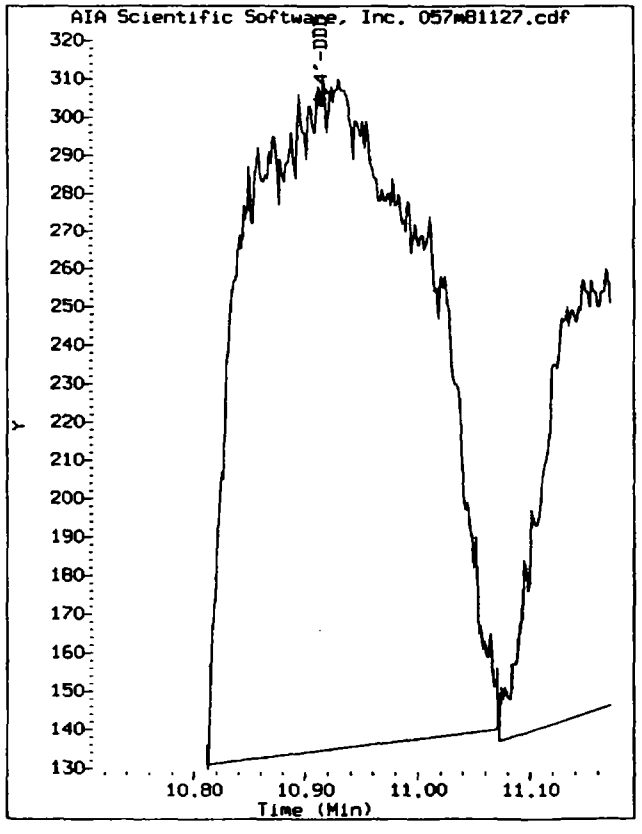
Manually Integrated Peaks



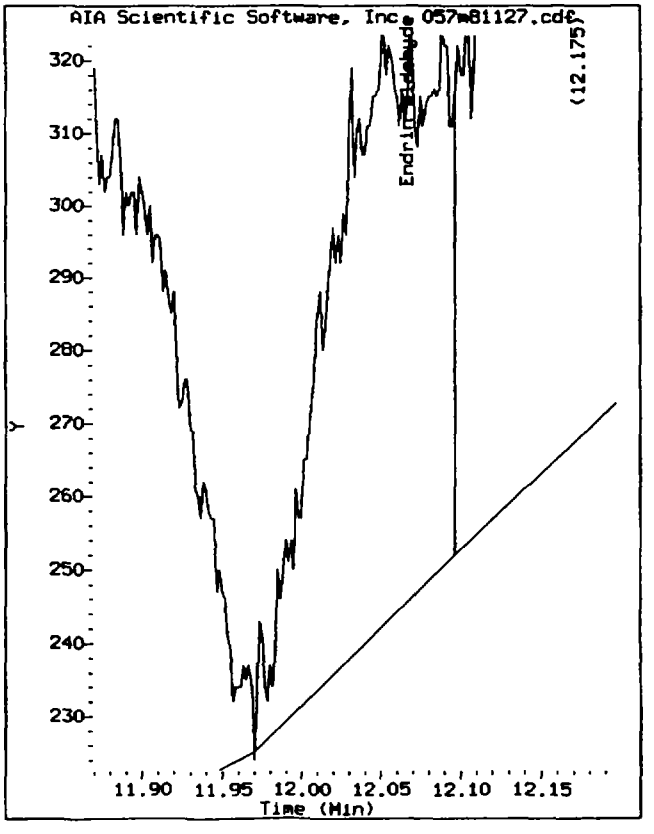
Start: 3.22 Stop: 3.40



Start: 5.32 Stop: 5.39



Start: 10.81 Stop: 11.07



Start: 11.97 Stop: 12.10

Data File: /chem/tracego83.i/m051005o0LC03.b/057m81127.d

Page 1

Date : 06-OCT-2005 15:57

Client ID: PBLKAM

Instrument: tracego83.i

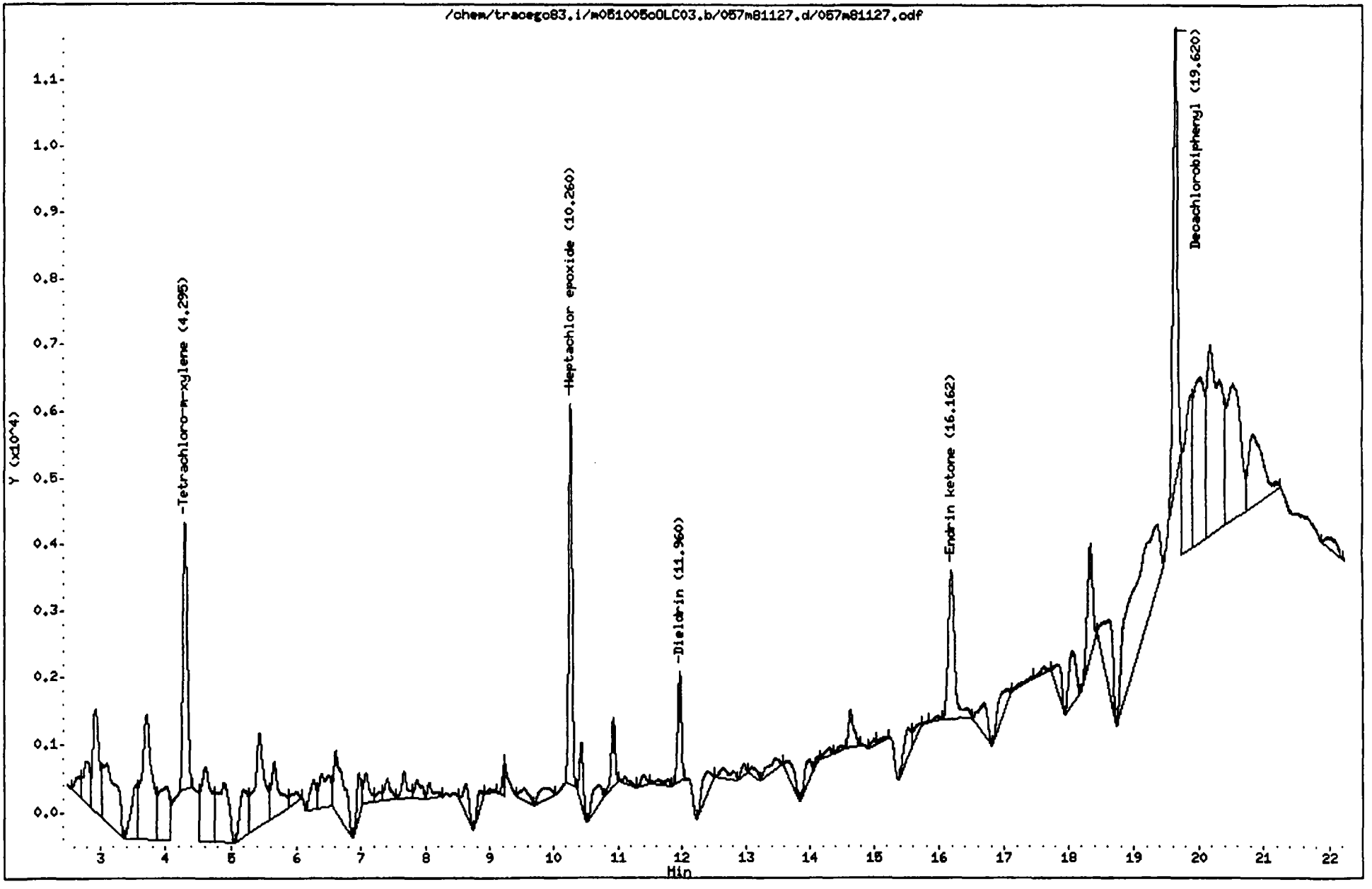
Sample Info: 81127R

Volume Injected (uL): 1.0

Operator: 2461

Column phase: olpest2

Column diameter: 0.53



CompuChem Environmental Corporation

Lab Smp Id : 81127R Client Smp Id : PBLKAM
Sample Type : BLANK Sublist : olm03
Inj Date : 06-OCT-2005 15:57 Inst ID : TRACEGC83
Operator : 2461
Method : /chem/tracegc83.i/m051005cOLC03.b/olc03_clpest2_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 500.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
0.14			2756								
0.76			14101								
0.92			1782732								
1.40			551								
1.53			16552								
1.85			11375								
2.29			1027								
2.66			1784								
2.82			4555								
2.94			10086								
3.10			13193								
3.55			5642								
3.71			20597								
3.93			9259								
4.30	4.23	4.33	18457	1069850	Tetrachloro-m-xylene	0.017251	0.034502		86.3	30 - 150	M
4.[illegible]			12728								
4.[illegible]			10851								
5.19			6085								
5.43			14290								
5.66			7223								
5.93			1604								
6.28			2653								
6.40			5762								
6.62			10302								
6.97			2819								
7.07			2880								
7.29			867								
7.41			2075								
7.67			2470								
7.86			1846								
8.05			1400								
8.62			2712								
8.85			1619								
9.00			471								
9.23			1166								
9.54			1694								
9.88			2349								

CompuChem Environmental Corporation

Lab Smp Id : 81127R Client Smp Id : PBLKAM
Sample Type : BLANK Sublist : olm03
Inj Date : 06-OCT-2005 15:57 Inst ID :
Operator : 2461
Method : /chem/tracegc83.i/m051005cOLC03.b/olc03_clpest2_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 500.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
10.26	10.14 10.28	20410	1782000	Heptachlor epoxide	0.011453	0.022906	0.010000			M
10.43		3424								
10.71		3337								
10.93		4443								
11.10		695								
11.39		843								
11.63		951								
11.96	11.83 11.97	6466	1848950	Dieldrin	0.003497	0.006993	0.020000			JM
12.40		3589								
12.63		1770								
12.97		788								
13.10		902								
13.46		1974								
13.63		2533								
13.98		2452								
14.11		360								
14.29		806								
14.46		387								
14.62		3174								
14.99		433								
15.16		434								
15.51		3037								
15.70		1198								
15.97		460								
16.16	16.09 16.23	15935	1712350	Endrin ketone	0.009305	0.018611	0.020000			J
16.69		4484								
17.01		4041								
17.43		532								
17.60		684								
17.82		3505								
18.05		6289								
18.32		9411								
18.53		11164								
19.33		42407								
19.62	19.51 19.71	31520	1977350	Decachlorobiphenyl	0.015941	0.031881		79.7	30 - 150	M
19.86		19228								
20.00		27907								

CompuChem Environmental Corporation

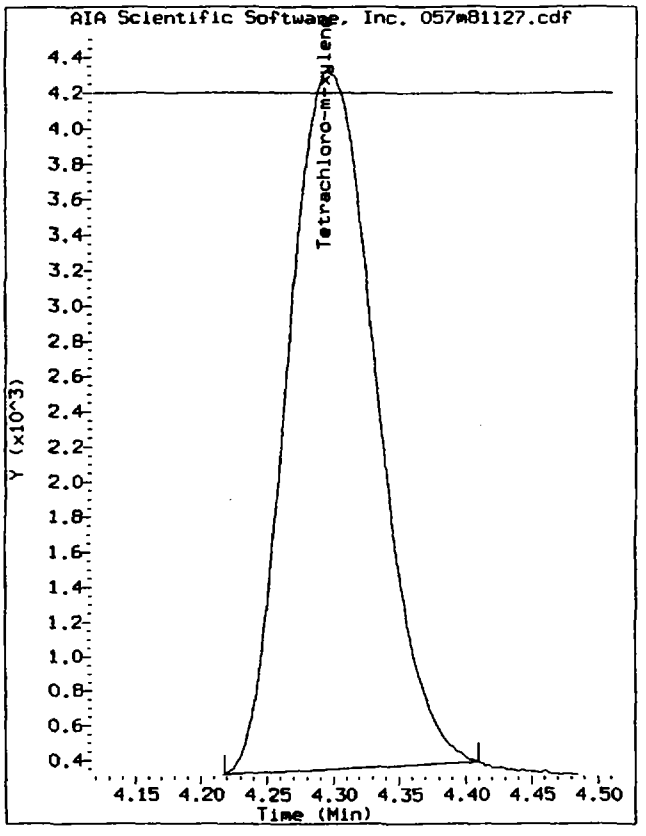
Lab Smp Id : 81127R Client Smp Id : PBLKAM
Sample Type : BLANK Sublist : olm03
Inj Date : 06-OCT-2005 15:57 Inst ID :
Operator : 2461
Method : /chem/tracegc83.i/m051005cOLC03.b/olc03_clpest2_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

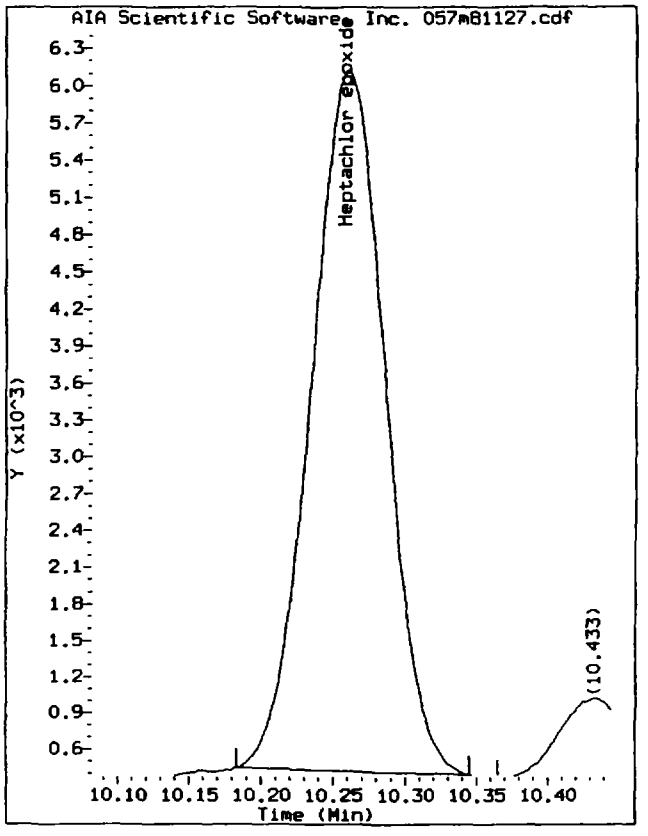
DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 500.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
20.16		43053								
20.51		30561								
20.82		16893								
21.96		2379								

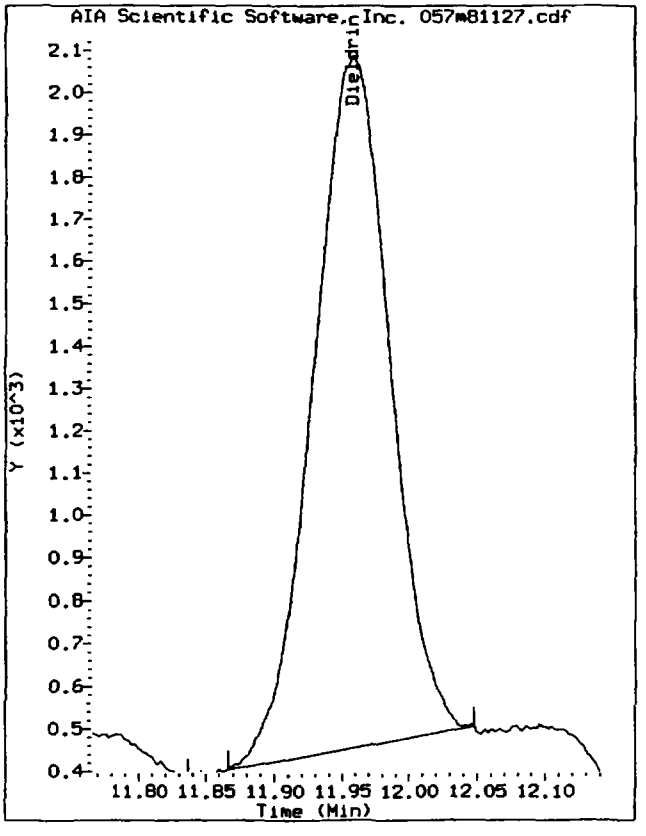
Manually Integrated Peaks



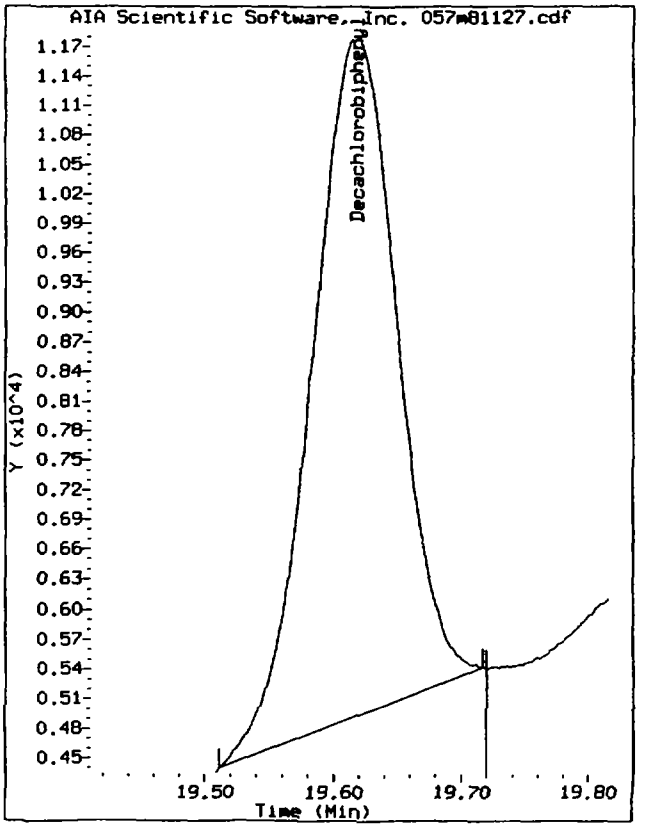
Start: 4.22 Stop: 4.41



Start: 10.18 Stop: 10.35



Start: 11.87 Stop: 12.05



Start: 19.51 Stop: 19.72

Compuchem a Division of Liberty Analytical

EXTRACTION WORKSHEET

Pesticide/PCB, Low Concentration Water (OLC03.2 + Rev.)

ASSIGNED TO: Margaret / Rodn

EMP. ID NUMBER: 2583 2171

[redacted]

DATE EXTRACTED/POSTED: 10/5/2005

BATCH NO.: 8031

543

	COMPUCHEM NUMBER	SAMPLE ID	SAMPLE TYPE	[illegible]	[illegible]	[illegible]	[illegible]	COMMENTS
1	778903 R1	X06G0	SAMPLE	500	5.0	N	1.0	QB PE -0.5 ml sample added
2	782901	ACSGWPWA26	SAMPLE	500	7.0	N		
3	782902	ACSGWPWDUP26	SAMPLE	500	7.0	N		500 ml for all
4	782903	ACSGWPWB26	SAMPLE	500	6.0	N		QC
5	782904	ACSGWPWT26	SAMPLE	500	7.0	N		
6	782905	ACSGWPWC26	SAMPLE	500	7.0	N		
7	782907	ACSGWPWD26	SAMPLE	500	7.0	N		
8	81130	ACSGWPWB26MSD	MSD	500	6.0	N		
9	81129	ACSGWPWB26MS	MS	500	6.0	N		
10	81127	PBLKMA	MB	500	5.0	N		
11	81128 R1	PMALCS	LCS	500	5.0	N		
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								

NB 10/5/05

	SURROGATE	430	0.5 ~~1.0 ml~~	57902
	LCS SPIKE	4024	0.5 ~~1.0 ml~~	57396
	MS/MSD	4038	0.5 ~~1.0 ml~~	57451

FLORISIL RUN: NB / 10/5/05
Initials Date

WATERS FLORISIL LOT #: 170634076B

Analysts Initials: Extracted MK

KD VG

FINAL VOLUME VERIFIED [signature]

SUPERVISOR REVIEWED [signature]

N2 NB/VG

Bottled up NB

SURROGATE & SPIKE ADDED BY NB / 10/5/05
INITALS DATE

WITNESS MK / 10/5/05
INITALS DATE

Manufacturer and [illegible]ber of reagents/solvents used CH2Cl2 45166 Na2SO4 2X-294.4 C6H14 C0065

Rev [illegible]

1LCE
LOW CONCENTRATION WATER PESTICIDE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

PIBLK84

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: PIBLK84 Date Received: _____

Sample Volume: 1000(ML) Date Extracted: 09/22/2005

Concentrated Extract Volume: 2000(UL) Date Analyzed: 09/30/2005

Injection Volume: 1.0(UL) Dilution Factor: 1.0

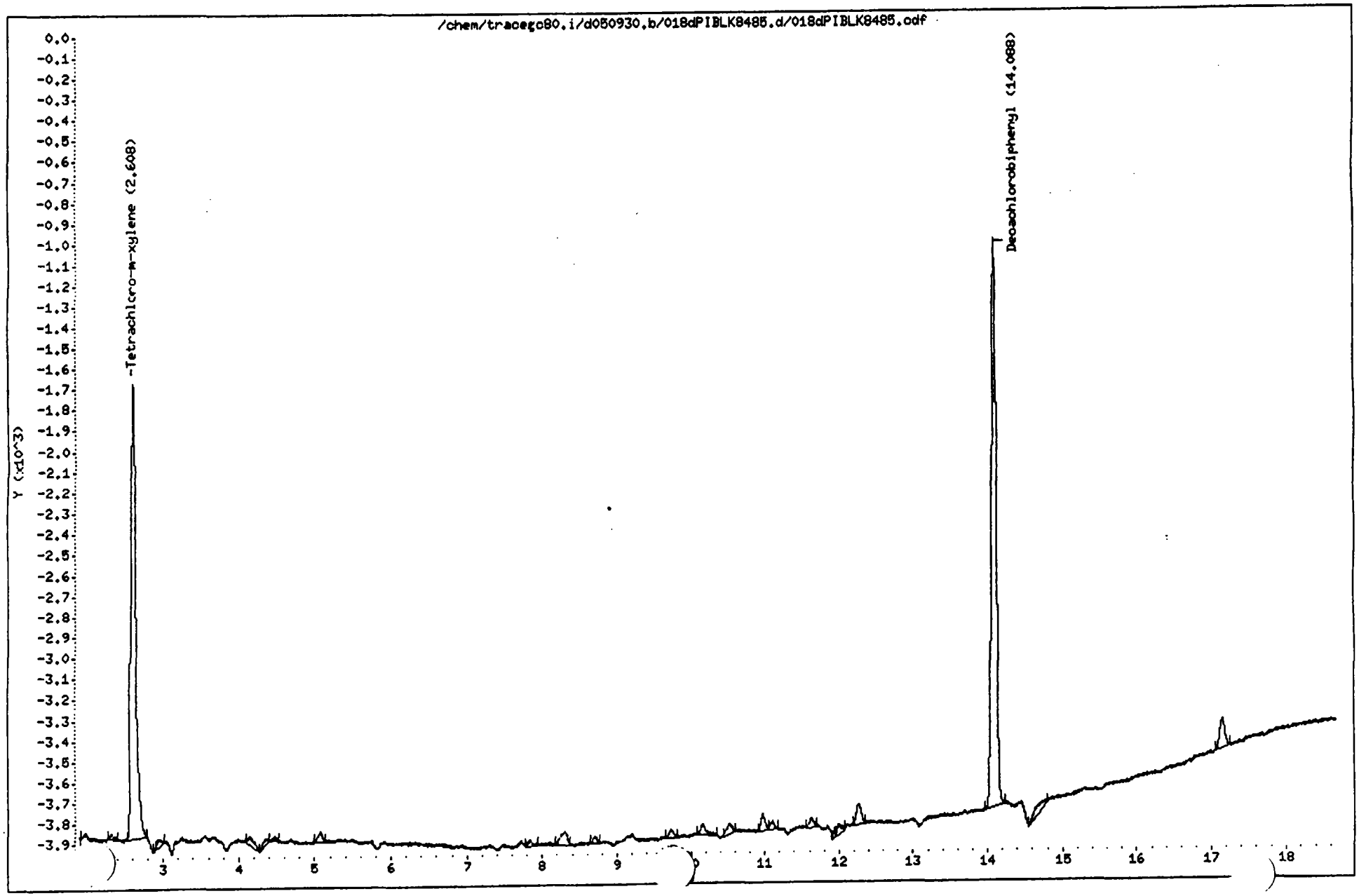
Sulfur Cleanup: (Y/N) N Extraction: (Sepf/Cont) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

Data File: /chem/tracego80.i/d050930.b/018dPIBLK8485.d
Date : 30-SEP-2005 23:14
Client ID: PIBLK84
Sample Info: PIBLK8485
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracego80.i

Operator: 2512
Column diameter: 0.53



CompuChem Environmental Corporation

Lab Smp Id : PIBLK84 Client Smp Id : PIBLK84
Sample Type : INSTBLANK Sublist : all
Inj Date : 30-SEP-2005 23:14 Inst ID : TRACEGC80
Operator : 2512
Method : /chem/tracegc80.i/d050930.b/2ulOLM04_clpestv6.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 10000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	FLAGS
0.12		1088						
0.55		4082						
0.70		10775						
1.02		392						
1.23		112						
1.47		258						
1.71		335						
1.88		255						
2.33		124						
2.61	2.55 2.65	9939	513950	Tetrachloro-m-xylene	0.019337	0.193365		
2.97		187						
4.15		245						
4.36		167						
4.47		101						
5.07		192						
7.85		108						
8.30		388						
8.71		127						
9.72		171						
10.16		314						
10.52		264						
10.97		352						
11.10		165						
11.63		215						
11.93		74						
11.99		201						
12.26		463						
14.09	13.99 14.19	12422	615700	Decachlorobiphenyl	0.020174	0.200000		
14.77		374						
17.15		707						

1LCE

LOW CONCENTRATION WATER PESTICIDE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

PIBLK85

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: PIBLK85 Date Received: _____

Sample Volume: 1000(ML) Date Extracted: 2000

Concentrated Extract Volume: 2000(UL) Date Analyzed: 09/30/2005

Injection Volume: 1.0(UL) Dilution Factor: 1.0

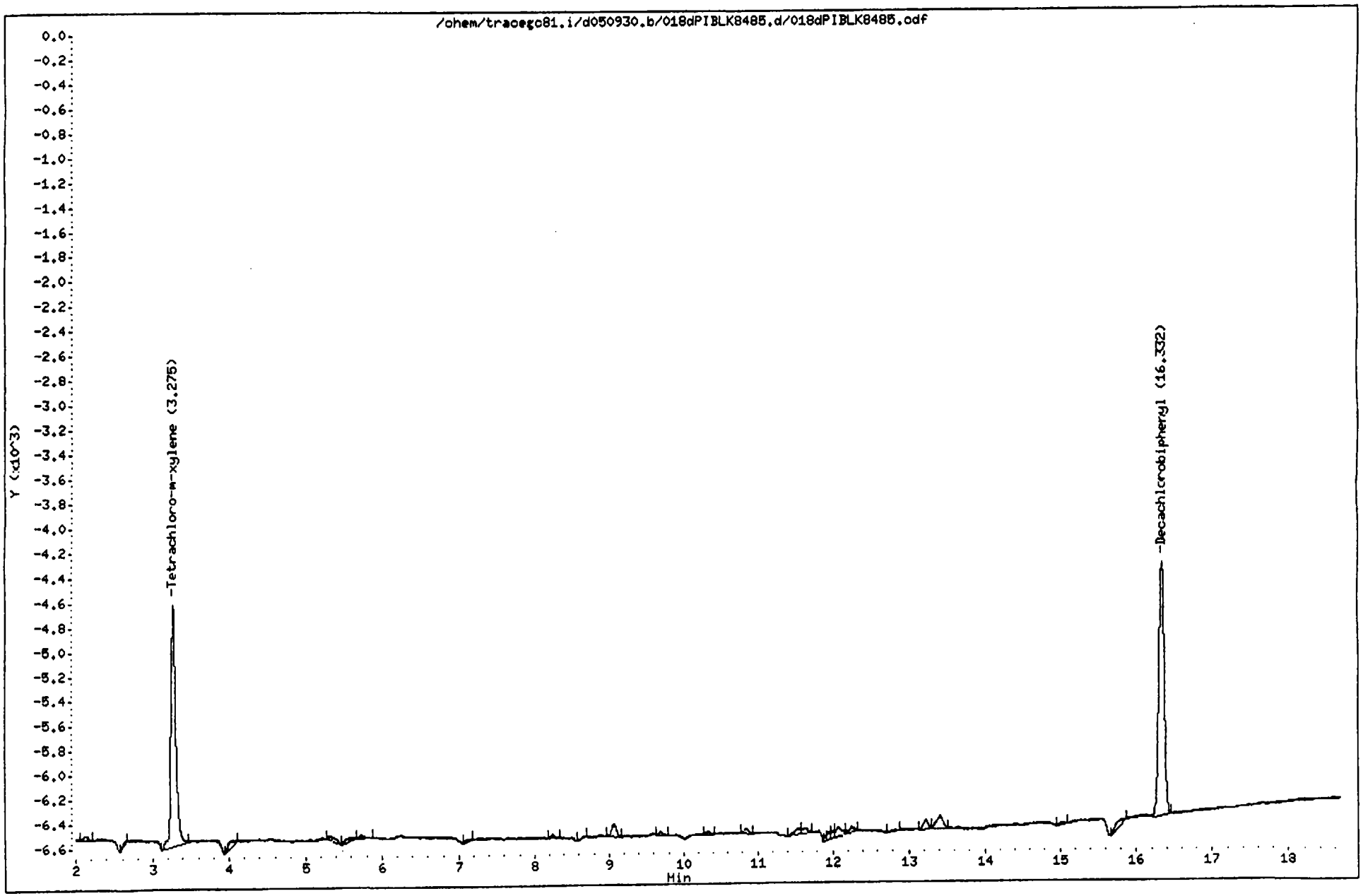
Sulfur Cleanup: (Y/N) N Extraction: (Sepf/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

Data File: /chem/tracego81.i/d050930.b/018dPIBLK8485.d
Date : 30-SEP-2005 23:14
Client ID: PIBLK85
Sample Info: PIBLK8485
Volume Injected (uL): 1.0
Column phase: olpest2

Instrument: tracego81.i

Operator: 2512
Column diameter: 0.53



CompuChem Environmental Corporation

Lab Smp Id : PIBLK85 Client Smp Id : PIBLK85
Sample Type : INSTBLANK Sublist : all
Date : 30-SEP-2005 23:14 Inst ID : TRACEGC81
Operator : 2512
Method : /chem/tracegc81.i/d050930.b/2ulOLM04_clpest2v6.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 10000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	FLAGS
0.13			1683						
0.53			3398						
0.57			762						
0.67			7586						
1.12			203						
1.34			1273						
1.67			486						
1.81			276						
2.13			161						
2.65			103						
3.28	3.22	3.32	8914	423700	Tetrachloro-m-xylene	0.021037	0.210373		
4.03			306						
5.33			256						
5.57			191						
5.74			175						
7.15			87						
8.25			128						
8.67			55						
9			489						
[illegible]			146						
10.34			138						
10.86			191						
11.55			300						
11.63			244						
11.90			51						
11.95			199						
12.03			199						
12.08			415						
12.26			250						
12.83			102						
13.23			331						
13.41			636						
15.05			122						
15.86			369						
16.33	16.23	16.43	10085	482325	Decachlorobiphenyl	0.020910	0.210000		

1LCE
LOW CONCENTRATION WATER PESTICIDE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

PIBLKJG

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: PIBLKJG Date Received: _____

Sample Volume: 1000(ML) Date Extracted: 09/22/2005

Concentrated Extract Volume: 2000(UL) Date Analyzed: 10/01/2005

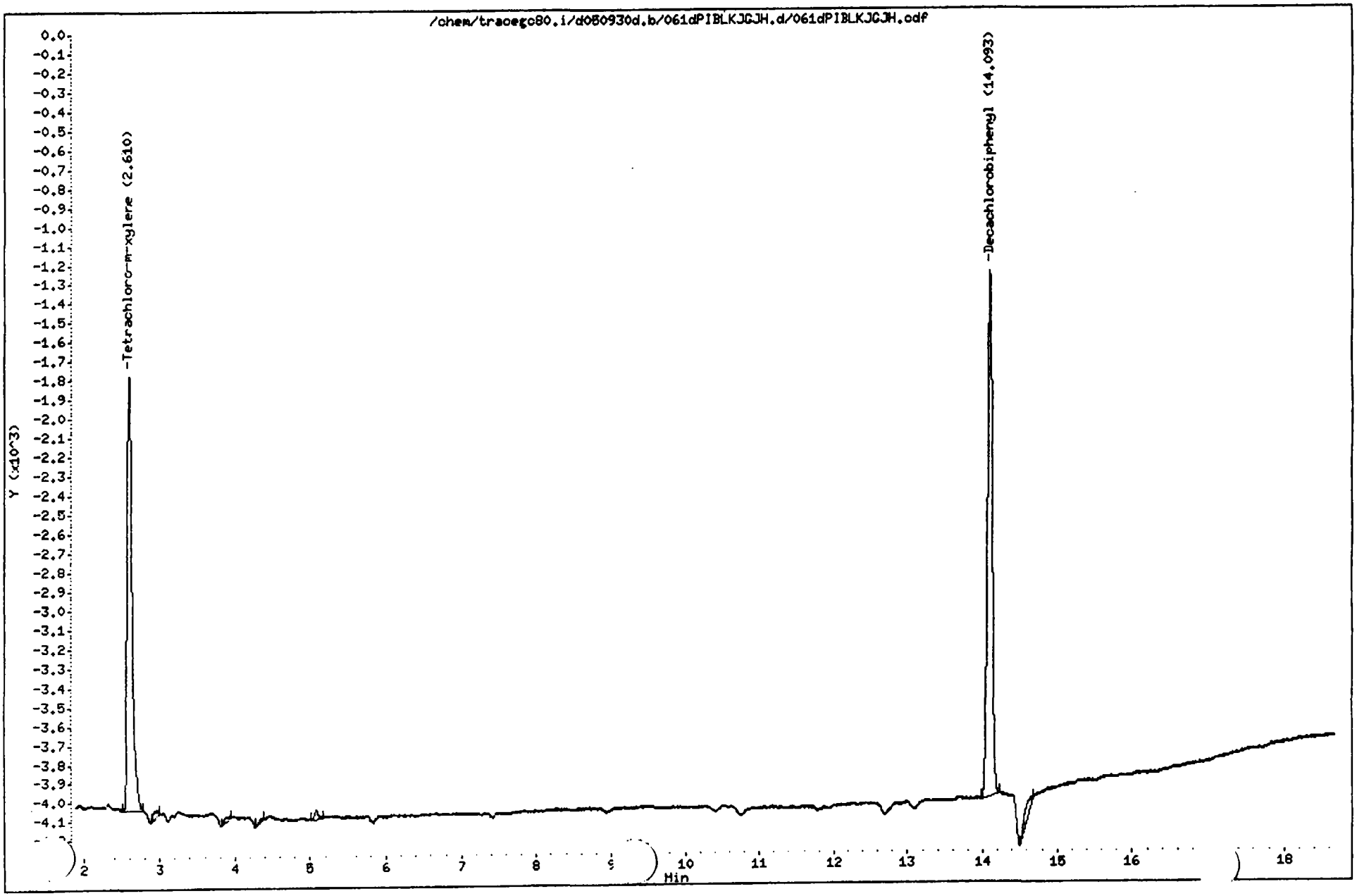
Injection Volume: 1.0(UL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N Extraction: (Sepf/Cont) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

Data File: /chem/tracego80.i/d050930d.b/061dPIBLKJGJH.d
Date : 01-OCT-2005 14:47
Client ID: PIBLKJG
Sample Info: PIBLKJGJH
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracego80.i
Operator: 2512
Column diameter: 0.53



CompuChem Environmental Corporation

Lab Smp Id : PIBLKJG Client Smp Id : PIBLKJG
Sample Type : INSTBLANK Sublist : all
Inj Date : 01-OCT-2005 14:47 Inst ID : TRACEGC80
Operator : 2512
Method : /chem/tracegc80.i/d050930d.b/2ulOLM04_clpestv6.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 10000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	FLAGS
0.12			815						
0.56			3472						
0.59			471						
0.70			9173						
1.03			139						
1.24			125						
1.46			325						
1.70			315						
1.87			79						
2.61	2.55	2.65	10324	513950	Tetrachloro-m-xylene	0.020087	0.200872		
2.96			137						
3.94			112						
4.35			82						
5.09			198						
14.09	13.99	14.19	12519	615700	Decachlorobiphenyl	0.020333	0.200000		
14.69			640						

(10/5/5

1LCE
LOW CONCENTRATION WATER PESTICIDE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

PIBLKJH

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: PIBLKJH Date Received: _____

Sample Volume: 1000(ML) Date Extracted: 2000

Concentrated Extract Volume: 2000(UL) Date Analyzed: 10/01/2005

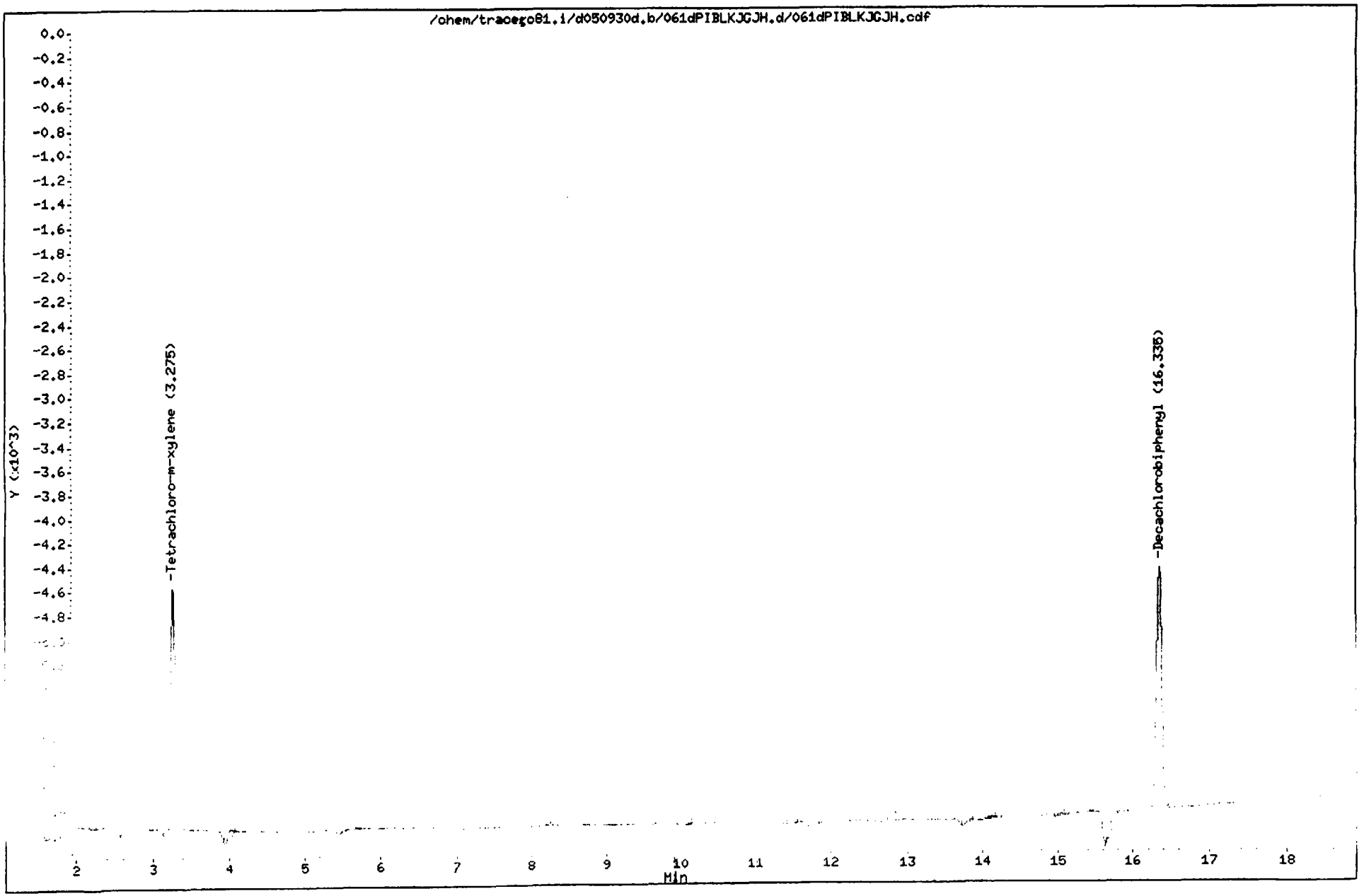
Injection Volume: 1.0(UL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N Extraction: (Sepf/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

Data File: /chem/tracegc81.i/d050930d.b/061dPIBLKJGJH.d
Date : 01-OCT-2005 14:47
Client ID: PIBLKJH
Sample Info: PIBLKJGJH
Volume Injected (uL): 1.0
Column phase: clpest2

Instrument: tracegc81.i
Operator: 2512
Column diameter: 0.53



CompuChem Environmental Corporation

Lab Smp Id : PIBLKJH Client Smp Id : PIBLKJH
Sample Type : INSTBLANK Sublist : all
Inj Date : 01-OCT-2005 14:47 Inst ID : TRACEGC81
Operator : 2512
Method : /chem/tracegc81.i/d050930d.b/2ulOLM04_clpest2v6.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 10000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	FLAGS
0.13			771						
0.26			79						
0.53			1524						
0.57			1151						
0.67			7018						
0.85			338						
1.13			227						
1.22			75						
1.34			94						
1.67			390						
1.85			157						
2.14			108						
2.65			256						
3.28	3.22	3.32	8967	423700	Tetrachloro-m-xylene	0.021164	0.211638		
4.02			309						
[illegible]			54						
			102						
			140						
10.13			59						
11.48			71						
11.81			180						
12.83			51						
13.85			86						
14.10			122						
15.04			73						
15.80			595						
16.34	16.23	16.43	9817	482325	Decachlorobiphenyl	0.020354	0.200000		

1LCE
LOW CONCENTRATION WATER PESTICIDE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

PIBLKJI

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: PIBLKJI Date Received: _____

Sample Volume: 1000(ML) Date Extracted: 09/22/2005

Concentrated Extract Volume: 2000(UL) Date Analyzed: 10/01/2005

Injection Volume: 1.0(UL) Dilution Factor: 1.0

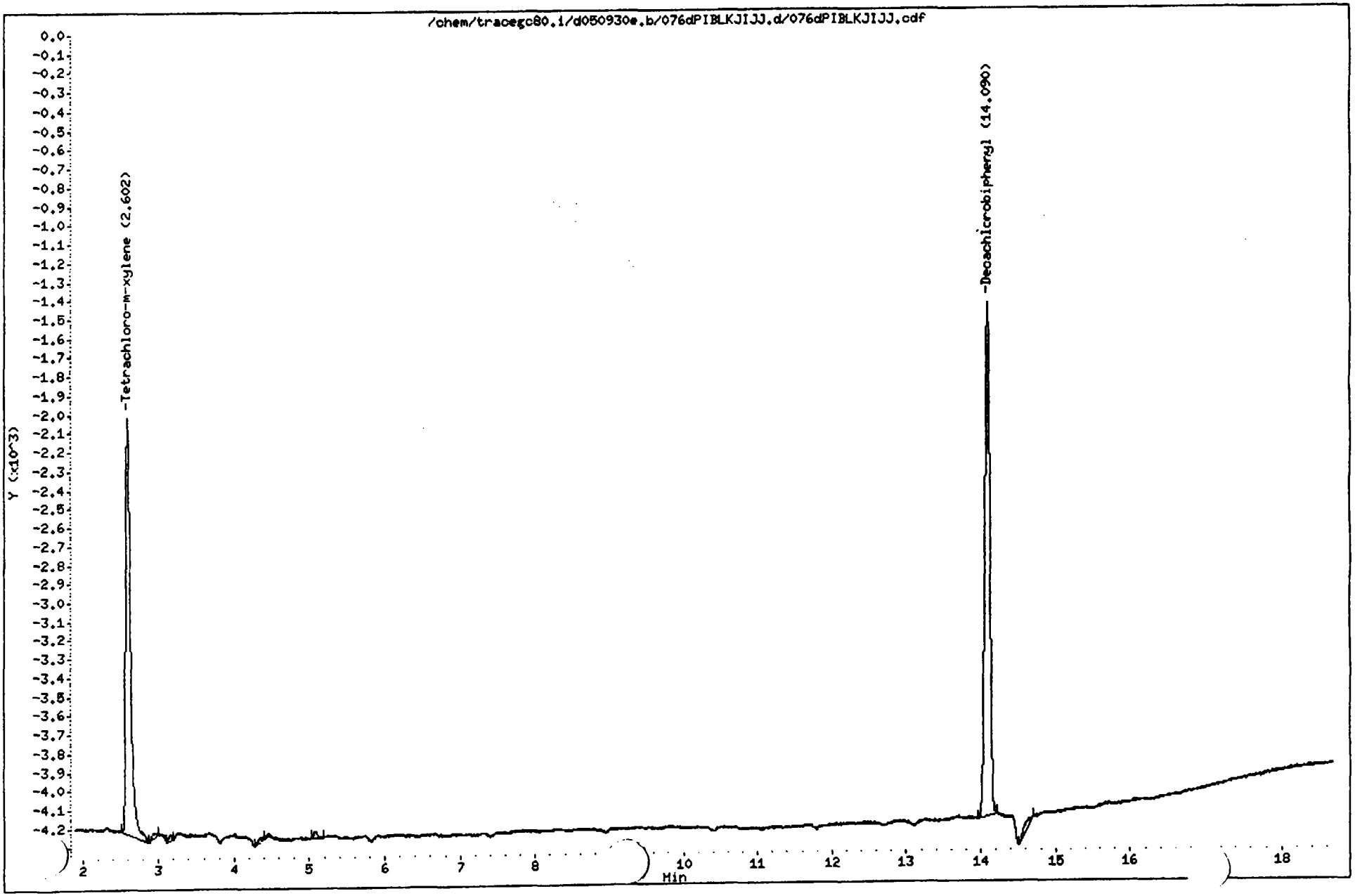
Sulfur Cleanup: (Y/N) N Extraction: (Sepf/Cont) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

Data File: /chem/tracego80.i/d050930e.b/076dPIBLKJIJJ.d
Date : 01-OCT-2005 20:13
Client ID: PIBLKJI
Sample Info: PIBLKJIJJ
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracego80.i

Operator: 2512
Column diameter: 0.53



Data File: /chem/tracegc80.i/d050930e.b/076dPIBLKJIJJ.d Page 1
Report Date 10/03/2005 13:56

CompuChem Environmental Corporation

Lab Smp Id : PIBLKJI
Sample Type : INSTBLANK
Inj Date : 01-OCT-2005 20:13
Operator : 2512
Method : /chem/tracegc80.i/d050930e.b/2ulOLM04_clpestv6.m
Misc. Info : None

Client Smp Id : PIBLKJI
Sublist : all
Inst ID : TRACEGC80

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0
Vt Final Volume: 10000(ul)
Vo Sample Volume: 1000.0(ml)

Uf GPC Unit Factor: 1
Vi Injection Volume: 1(ul)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	FLAGS
0.12			726						
0.56			1679						
0.59			416						
0.68			9110						
1.03			80						
1.26			283						
1.47			214						
2.60	2.55	2.65	10125	513950	Tetrachloro-m-xylene	0.019700	0.197000		
2.96			140						
3.16			90						
4.37			103						
5.08			150						
14.09	13.99	14.19	12472	615700	Decachlorobiphenyl	0.020256	0.200000		
14.69			368						

L10/31

1LCE
LOW CONCENTRATION WATER PESTICIDE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

PIBLKJJ

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: PIBLKJJ Date Received: _____

Sample Volume: 1000(ML) Date Extracted: 2000

Concentrated Extract Volume: 2000(UL) Date Analyzed: 10/01/2005

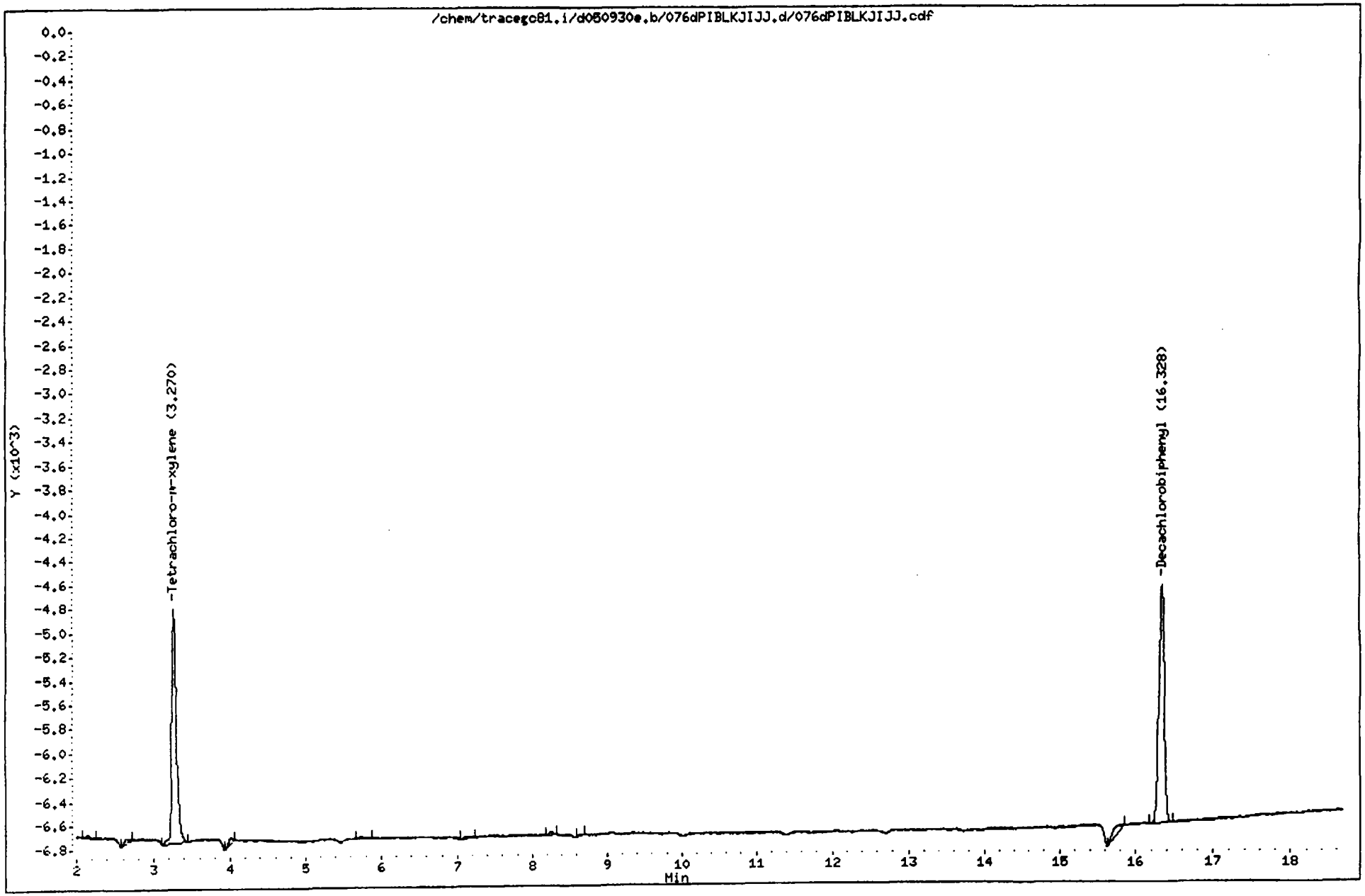
Injection Volume: 1.0(UL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N Extraction: (Sepf/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

Data File: /chem/tracegc81.i/d050930e.b/076dPIBLKJIJJ.d
Date : 01-OCT-2005 20:13
Client ID: PIBLKJJ
Sample Info: PIBLKJIJJ
Volume Injected (uL): 1.0
Column phase: olpest2

Instrument: tracegc81.i
Operator: 2512
Column diameter: 0.53



CompuChem Environmental Corporation

Lab Smp Id : PIBLKJJ Client Smp Id : PIBLKJJ
Sample Type : INSTBLANK Sublist : all
Inj Date : 01-OCT-2005 20:13 Inst ID : TRACEGC81
Operator : 2512
Method : /chem/tracegc81.i/d050930e.b/2ulOLM04_clpest2v6.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 10000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	FLAGS
0.13			1811						
0.53			3319						
0.57			1485						
0.64			1533						
0.67			5455						
0.85			315						
1.14			195						
1.34			154						
1.67			289						
1.78			118						
2.13			125						
2.64			183						
3.27	3.22	3.32	8364	423700	Tetrachloro-m-xylene	0.019741	0.197407		
4.01			245						
5.73			102						
			96						
			112						
6			65						
15.84			617						
16.33	16.23	16.43	9741	482325	Decachlorobiphenyl	0.020197	0.200000		

1LCE
LOW CONCENTRATION WATER PESTICIDE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

PIBLKJK

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: PIBLKJK Date Received: _____

Sample Volume: 1000(ML) Date Extracted: 09/22/2005

Concentrated Extract Volume: 2000(UL) Date Analyzed: 10/02/2005

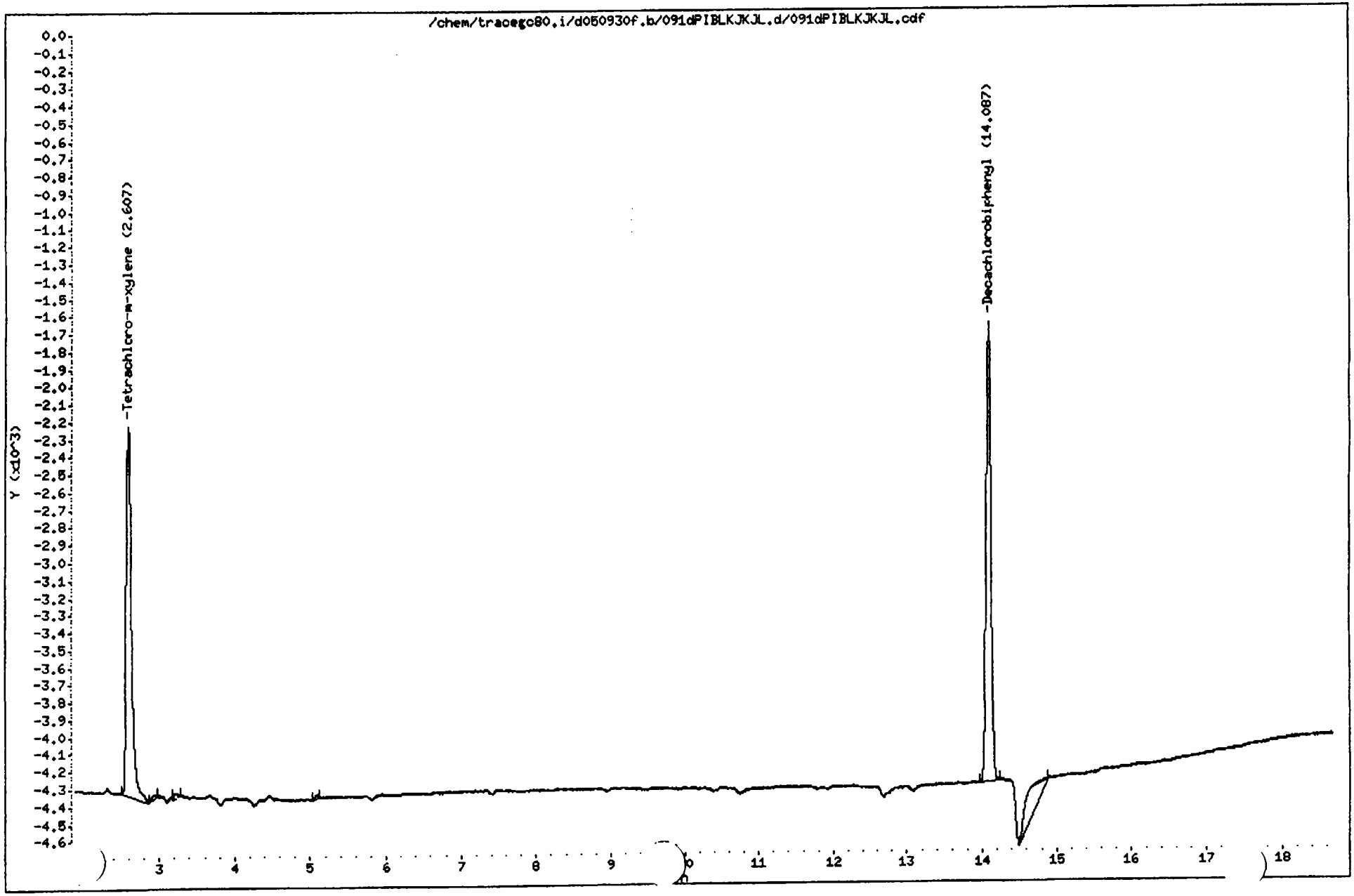
Injection Volume: 1.0(UL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N Extraction: (Sepf/Cont) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

Data File: /chem/tracegc80.i/d050930f.b/091dPIBLKJKJL.d
Date : 02-OCT-2005 01:38
Client ID: PIBLKJK
Sample Info: PIBLKJKJL
Volume Injected (uL): 1.0
Column phase: olpest

Instrument: tracegc80.i
Operator: 2512
Column diameter: 0.53



CompuChem Environmental Corporation

Lab Smp Id : PIBLKJK Client Smp Id : PIBLKJK
Sample Type : INSTBLANK Sublist : all
Inj Date : 02-OCT-2005 01:38 Inst ID : TRACEGC80
Operator : 2512
Method : /chem/tracegc80.i/d050930f.b/2ulOLM04_clpestv6.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 10000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	FLAGS
0.13			754						
0.55			1745						
0.59			515						
0.70			9072						
1.02			189						
1.46			272						
1.86			102						
2.61	2.55	2.65	10368	513950	Tetrachloro-m-xylene	0.020174	0.201736		
2.95			85						
3.24			122						
5.09			70						
14.09	13.99	14.19	11999	615700	Decachlorobiphenyl	0.019488	0.190000		
14.86			2538						

1LCE
LOW CONCENTRATION WATER PESTICIDE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

PIBLKJL

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: PIBLKJL Date Received: _____

Sample Volume: 1000(ML) Date Extracted: 2000

Concentrated Extract Volume: 2000(UL) Date Analyzed: 10/02/2005

Injection Volume: 1.0(UL) Dilution Factor: 1.0

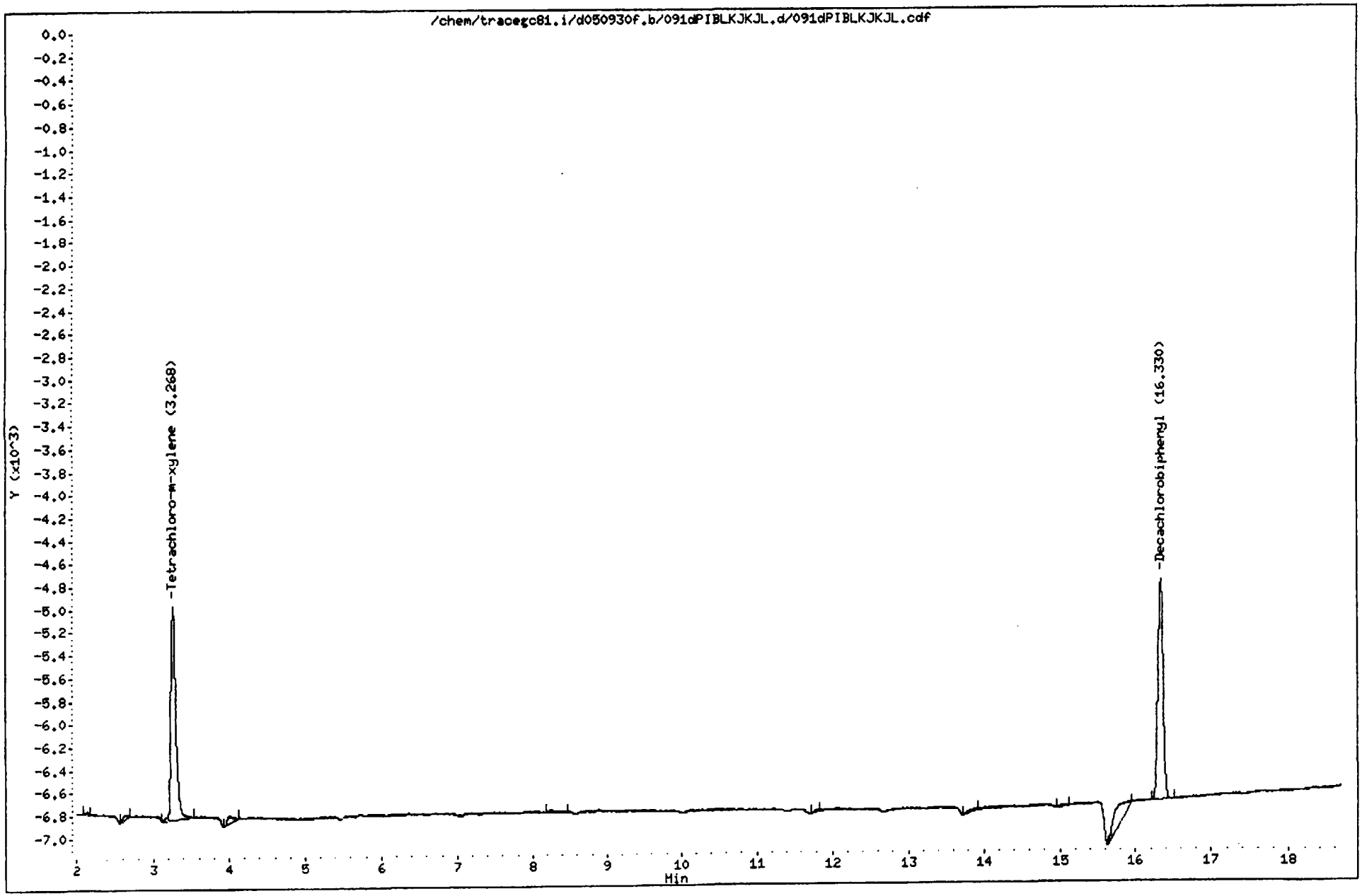
Sulfur Cleanup: (Y/N) N Extraction: (Sepf/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

Data File: /chem/tracegc81.i/d050930f.b/091dPIBLKJKJL.d
Date : 02-OCT-2005 01:38
Client ID: PIBLKJL
Sample Info: PIBLKJKJL
Volume Injected (uL): 1.0
Column phase: clpest2

Instrument: tracegc81.i

Operator: 2512
Column diameter: 0.53



CompuChem Environmental Corporation

Lab Smp Id : PIBLKJL Client Smp Id : PIBLKJL
Sample Type : INSTBLANK Sublist : all
Inj Date : 02-OCT-2005 01:38 Inst ID : TRACEGC81
Operator : 2512
Method : /chem/tracegc81.i/d050930f.b/2ulOLM04_clpest2v6.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 10000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	FLAGS
0.13			552						
0.53			1388						
0.57			1448						
0.63			1382						
0.66			5435						
0.84			294						
1.14			416						
1.34			161						
1.66			240						
1.79			118						
2.14			59						
2.65			144						
3.27	3.22	3.32	8467	423700	Tetrachloro-m-xylene	0.019983	0.199831		
4.01			377						
8.27			166						
11.81			51						
13.09			175						
13			111						
13			1913						
16.33	16.23	16.43	9425	482325	Decachlorobiphenyl	0.019540	0.200000		

10/3/5

1LCE
LOW CONCENTRATION WATER PESTICIDE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

PIBLK94

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: PIBLK94 Date Received: _____

Sample Volume: 1000(ML) Date Extracted: 2000

Concentrated Extract Volume: 2000(UL) Date Analyzed: 10/05/2005

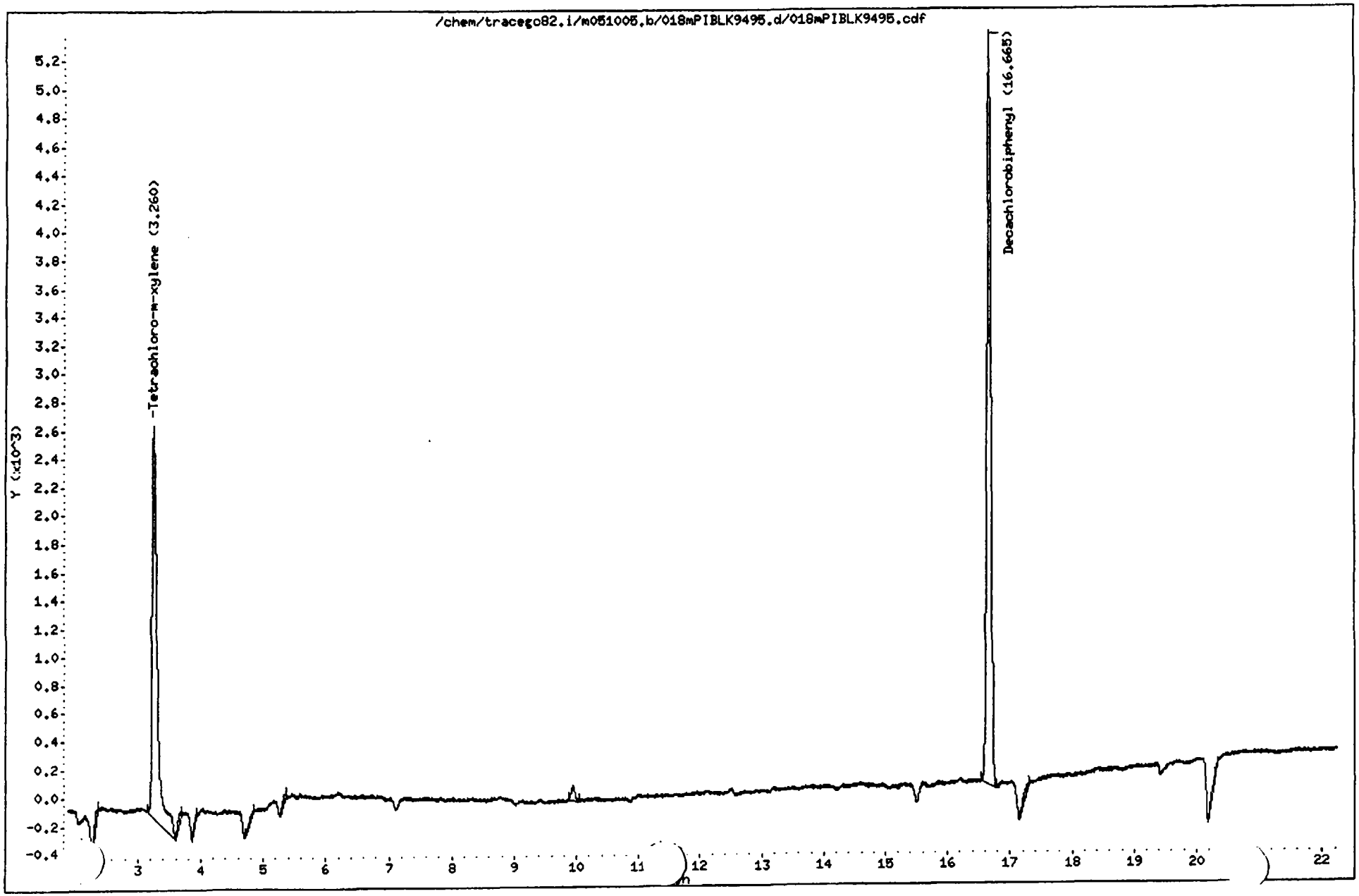
Injection Volume: 1.0(UL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N Extraction: (Sepf/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

Data File: /chem/tracegc82.i/m051005.b/018mPIBLK9495.d
Date : 05-OCT-2005 22:20
Client ID: PIBLK94
Sample Info: PIBLK9495
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc82.i
Operator: 2512
Column diameter: 0.53



CompuChem Environmental Corporation

Lab Smp Id : PIBLK94 Client Smp Id : PIBLK94
Sample Type : INSTBLANK Sublist : all
Inj Date : 05-OCT-2005 22:20 Inst ID : TRACEGC82
Operator : 2512
Method : /chem/tracegc82.i/m051005.b/2ulOLM04_clpestv6.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 10000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	FLAGS
0.13			3178						
0.44			243						
0.72			9504						
0.86			10765						
1.14			1114						
1.58			1054						
2.37			311						
3.26	3.21	3.31	15799	719050	Tetrachloro-m-xylene	0.021972	0.219717		
3.68			227						
3.94			178						
4.84			269						
5.34			194						
9.94			489						
16.66	16.57	16.77	23941	1191025	Decachlorobiphenyl	0.020101	0.200000		
17.28			446						
20.32			458						

1LCE
LOW CONCENTRATION WATER PESTICIDE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

PIBLK95

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: PIBLK95 Date Received: _____

Sample Volume: 1000(ML) Date Extracted: 2000

Concentrated Extract Volume: 2000(UL) Date Analyzed: 10/05/2005

Injection Volume: 1.0(UL) Dilution Factor: 1.0

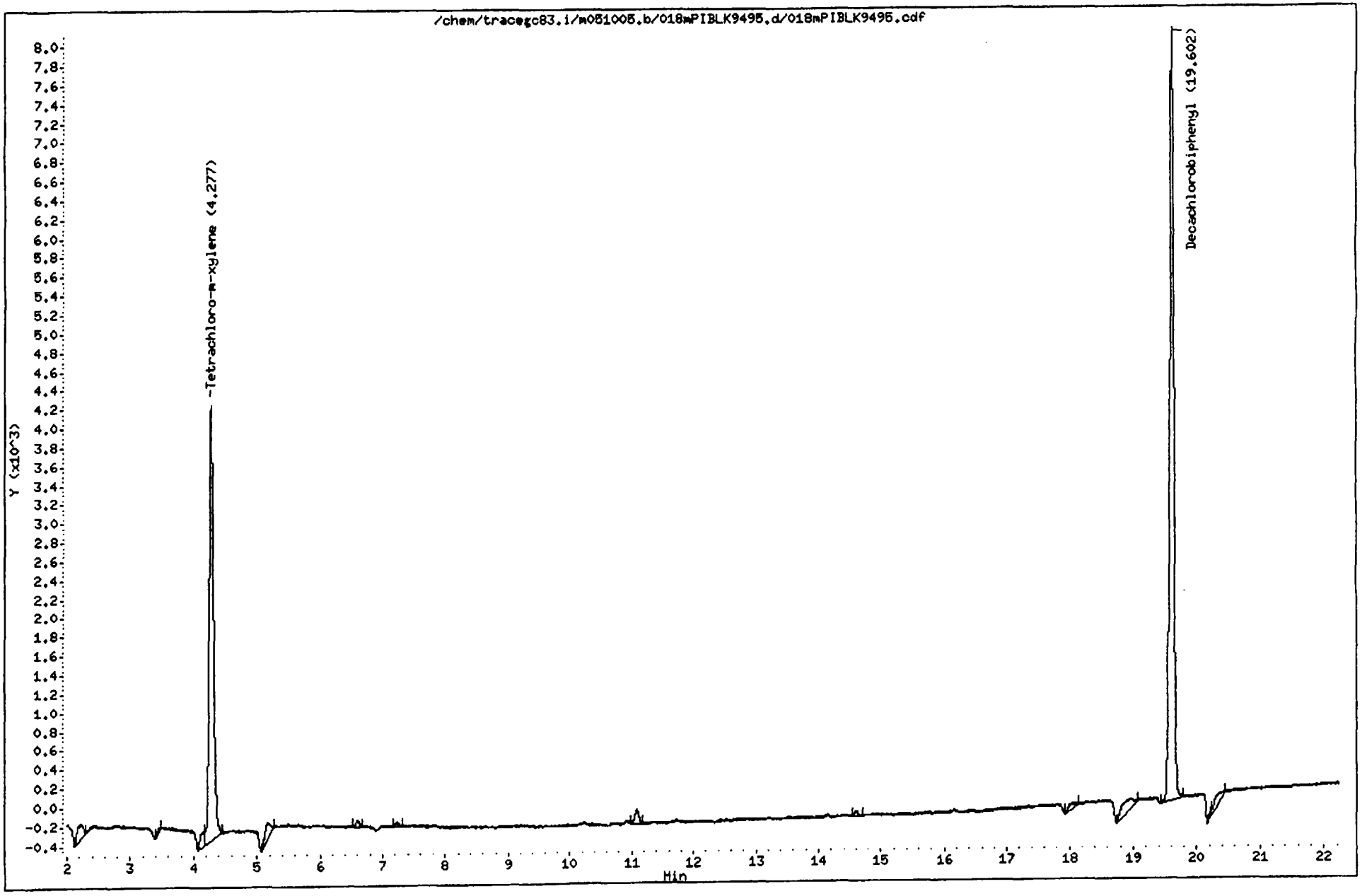
Sulfur Cleanup: (Y/N) N Extraction: (Sepf/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

Data File: /chem/tracegc83.i/m051005.b/018mPIBLK9495.d
Date : 05-OCT-2005 22:20
Client ID: PIBLK95
Sample Info: PIBLK9495
Volume Injected (uL): 1.0
Column phase: clpest2

Instrument: tracegc83.i

Operator: 2512
Column diameter: 0.53



CompuChem Environmental Corporation

L Smp Id : PIBLK95 Client Smp Id : PIBLK95
Sample Type : INSTBLANK Sublist : all
Inj Date : 05-OCT-2005 22:20 Inst ID : TRACEGC83
Operator : 2512
Method : /chem/tracegc83.i/m051005.b/2ulOLM04_clpest2v6.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 10000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	FLAGS
0.13			6676						
0.71			16300						
0.89			17362						
1.28			1432						
1.48			503						
2.23			1108						
3.46			147						
4.17			809						
4.28	4.23	4.33	21462	1069850	Tetrachloro-m-xylene	0.020061	0.200609		
5.17			1068						
6.60			293						
7.23			204						
11.09			677						
14.61			275						
18.05			509						
18.95			1627						
19.50	19.51	19.71	37287	1977350	Decachlorobiphenyl	0.018857	0.190000		
			255						
			985						

1LCE
LOW CONCENTRATION WATER PESTICIDE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

PIBLKME

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: PIBLKME Date Received: _____

Sample Volume: 1000(ML) Date Extracted: 2000

Concentrated Extract Volume: 2000(UL) Date Analyzed: 10/06/2005

Injection Volume: 1.0(UL) Dilution Factor: 1.0

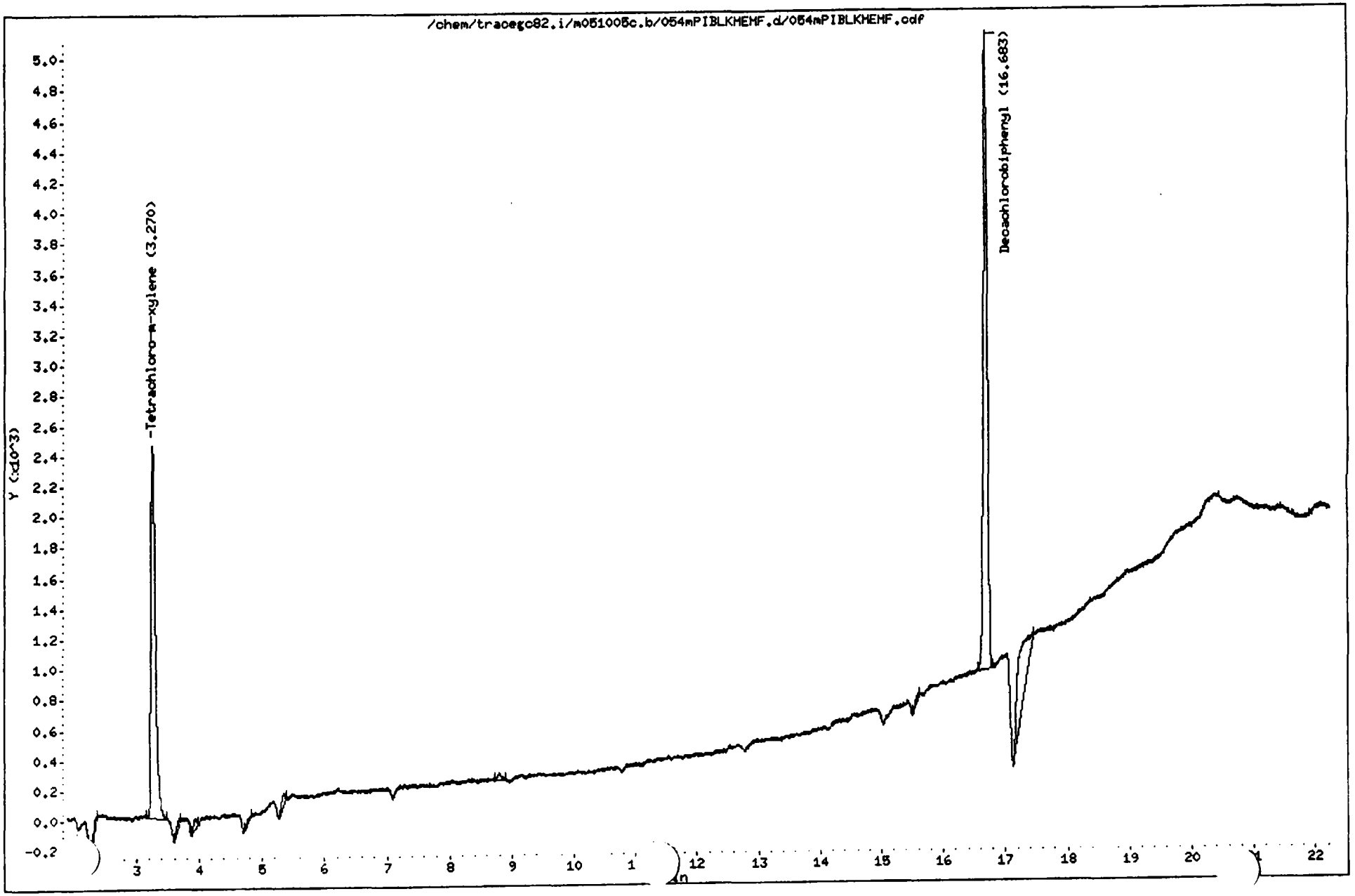
Sulfur Cleanup: (Y/N) N Extraction: (Sepf/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

Data File: /chem/tracegc82.i/m051005c.b/054mPIBLKMEMF.d
Date : 06-OCT-2005 14:04
Client ID: PIBLKME
Sample Info: PIBLKMEMF
Volume Injected (uL): 1.0
Column phase: olpest

Instrument: tracegc82.i

Operator: 2512
Column diameter: 0.53



CompuChem Environmental Corporation

Lab Smp Id : PIBLKME Client Smp Id : PIBLKME
Sample Type : INSTBLANK Sublist : all
Inj Date : 06-OCT-2005 14:04 Inst ID : TRACEGC82
Operator : 2512
Method : /chem/tracegc82.i/m051005c.b/2ulOLM04_clpestv6.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 10000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	FLAGS
0.14			2978						
0.53			406						
0.72			6875						
0.87			9774						
1.15			277						
1.56			569						
2.37			339						
3.27	3.21	3.31	12496	719050	Tetrachloro-m-xylene	0.017378	0.173783		
3.67			186						
3.94			305						
4.83			162						
5.35			340						
8.78			223						
15.61			205						
16.68	16.57	16.77	18573	119102S	Decachlorobiphenyl	0.015594	0.160000		
17.44			5278						

1LCE
LOW CONCENTRATION WATER PESTICIDE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

PIBLKMF

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: PIBLKMF Date Received: _____

Sample Volume: 1000(ML) Date Extracted: 2000

Concentrated Extract Volume: 2000(UL) Date Analyzed: 10/06/2005

Injection Volume: 1.0(UL) Dilution Factor: 1.0

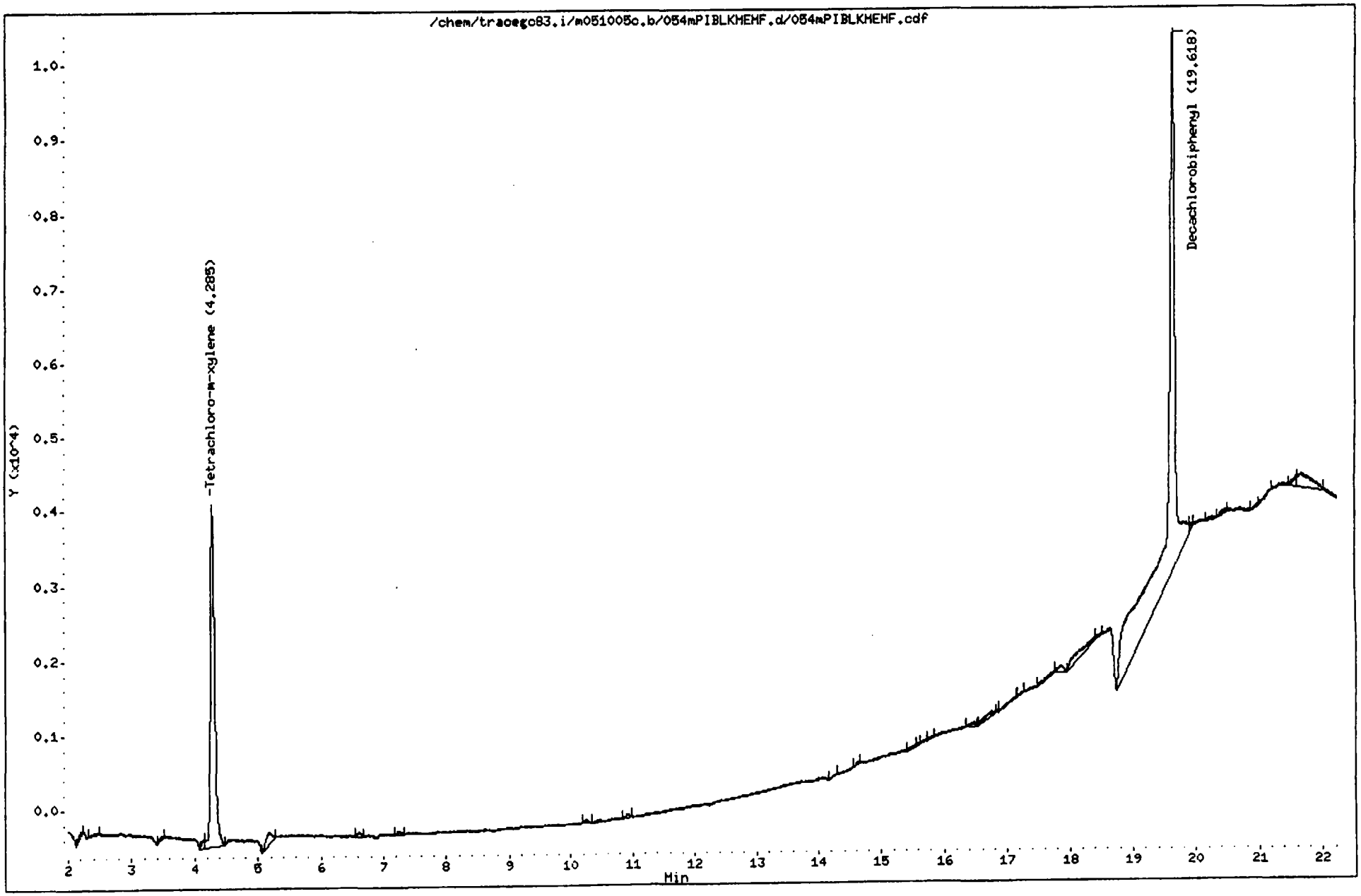
Sulfur Cleanup: (Y/N) N Extraction: (Sepf/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

Data File: /chem/tracego83.i/m051005c.b/054mPIBLKMEMF.d
Date : 06-OCT-2005 14:04
Client ID: PIBLKMF
Sample Info: PIBLKMEMF
Volume Injected (uL): 1.0
Column phase: olpest2

Instrument: tracego83.i

Operator: 2512
Column diameter: 0.53



CompuChem Environmental Corporation

Lab Smp Id : PIBLKMF Client Smp Id : PIBLKMF
Sample Type : INSTBLANK Sublist : all
Inj Date : 06-OCT-2005 14:04 Inst ID : TRACEGC83
Operator : 2512
Method : /chem/tracegc83.i/m051005c.b/2ulOLM04_clpest2v6.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 10000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	FLAGS
0.14			6877						
0.38			1916						
0.45			2319						
0.54			3431						
0.71			11097						
0.89			19083						
1.19			1032						
1.28			2061						
1.49			420						
2.22			325						
2.41			173						
3.47			197						
4.14			352						
4.28	4.23	4.33	21765	1069850	Tetrachloro-m-xylene	0.020344	0.203442		
5.18			1022						
6.61			244						
7 [illegible]			208						
1			212						
1			210						
14.29			116						
14.62			163						
15.54			225						
15.60			104						
15.82			93						
16.43			308						
16.74			699						
17.12			315						
17.25			103						
17.74			302						
17.84			554						
18.38			1742						
18.50			134						
19.62	19.51	19.71	64647	1977350	Decachlorobiphenyl	0.032694	0.330000		
19.95			341						
20.20			249						
20.45			369						
20.98			137						

CompuChem Environmental Corporation

Lab Smp Id : PIBLKMF Client Smp Id : PIBLKMF
Sample Type : INSTBLANK Sublist : all
Inj Date : 06-OCT-2005 14:04 Inst ID :
Operator : 2512
Method : /chem/tracegc83.i/m051005c.b/2ulOLM04_clpest2v6.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 10000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	FLAGS
21.20		282						
21.61		594						
21.68		2864						

1LCE
LOW CONCENTRATION WATER PESTICIDE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

PIBLKMG

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: PIBLKMG Date Received: _____

Sample Volume: 1000(ML) Date Extracted: 2000

Concentrated Extract Volume: 2000(UL) Date Analyzed: 10/06/2005

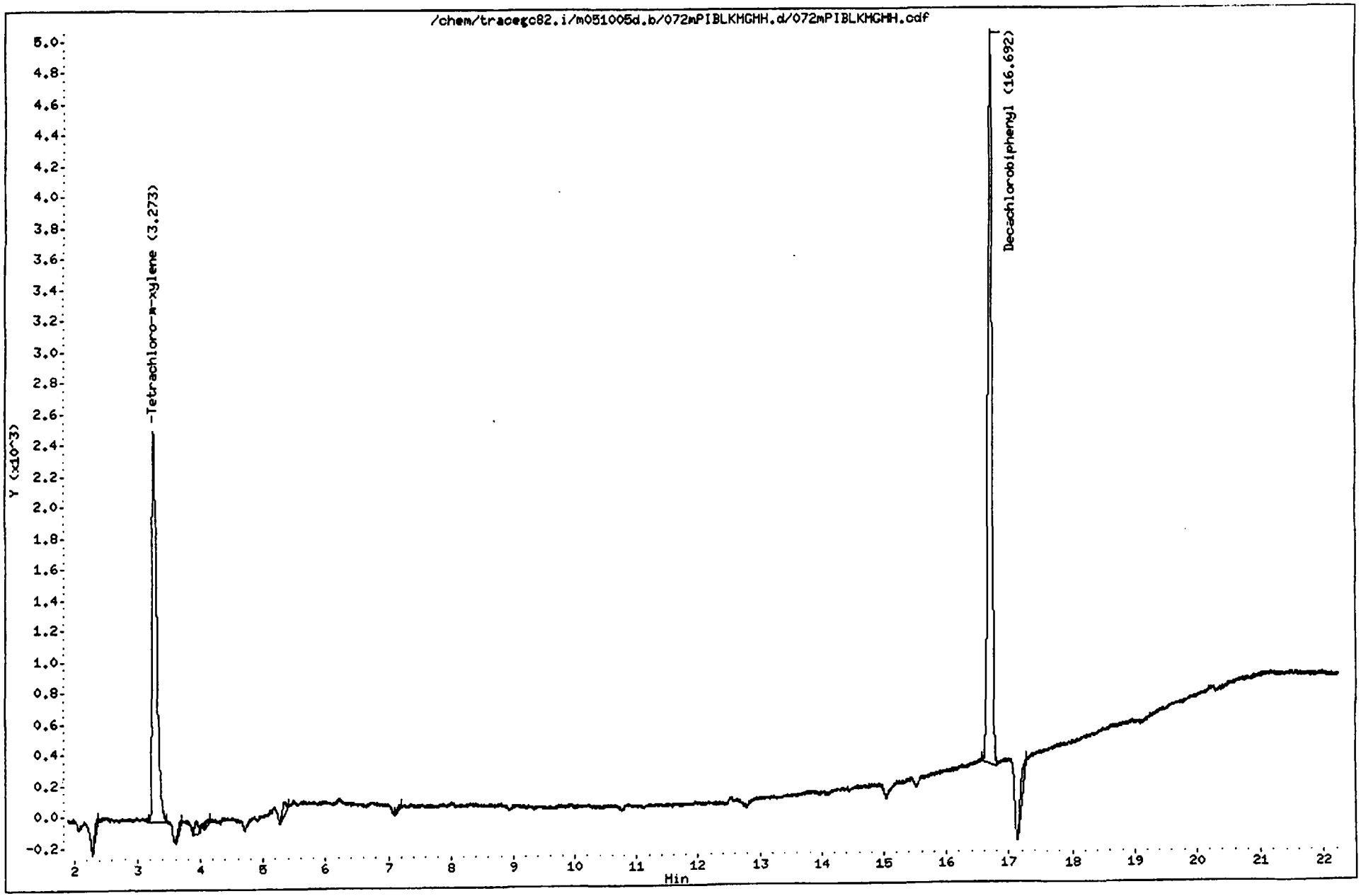
Injection Volume: 1.0(UL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N Extraction: (Sepf/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

Data File: /chem/tracegc82.i/m051005d.b/072mPIBLKMGMH.d
Date : 06-OCT-2005 22:20
Client ID: PIBLKMG
Sample Info: PIBLKMGMH
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc82.i
Operator: 2512
Column diameter: 0.53



CompuChem Environmental Corporation

L Smp Id : PIBLKMG Client Smp Id : PIBLKMG
Sample Type : INSTBLANK Sublist : all
Inj Date : 06-OCT-2005 22:20 Inst ID : TRACEGC82
Operator : 2512
Method : /chem/tracegc82.i/m051005d.b/2ulOLM04_clpestv6.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 10000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	FLAGS
0.14			837						
0.72			6455						
0.87			9432						
1.15			558						
1.57			318						
2.36			213						
3.27	3.21	3.31	12765	719050	Tetrachloro-m-xylene	0.017753	0.177532		
3.67			138						
3.93			312						
4.10			117						
5.33			433						
7.17			117						
16.69	16.57	16.77	21340	1191025	Decachlorobiphenyl	0.017917	0.180000		
17.27			778						

6/9/15

1LCE
LOW CONCENTRATION WATER PESTICIDE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

PIBLKMH

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: PIBLKMH Date Received: _____

Sample Volume: 1000(ML) Date Extracted: 2000

Concentrated Extract Volume: 2000(UL) Date Analyzed: 10/06/2005

Injection Volume: 1.0(UL) Dilution Factor: 1.0

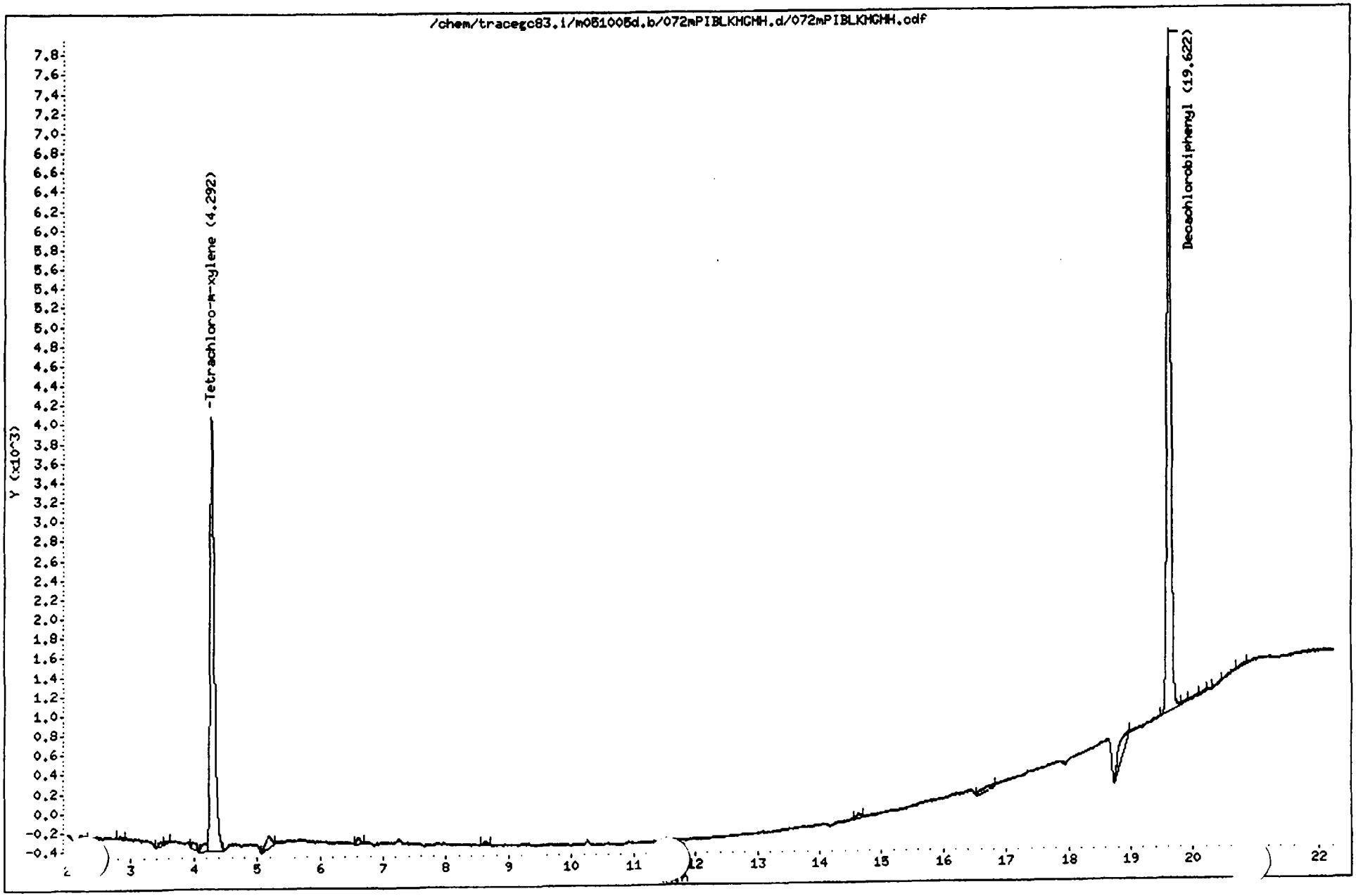
Sulfur Cleanup: (Y/N) N Extraction: (Sepf/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

Data File: /chem/tracego83.i/m051005d.b/072mPIBLKMGMH.d
Date : 06-OCT-2005 22:20
Client ID: PIBLKMH
Sample Info: PIBLKMGMH
Volume Injected (uL): 1.0
Column phase: olpest2

Instrument: tracego83.i

Operator: 2612
Column diameter: 0.53



CompuChem Environmental Corporation

Lab Smp Id : PIBLKMH Client Smp Id : PIBLKMH
Sample Type : INSTBLANK Sublist : all
Inj Date : 06-OCT-2005 22:20 Inst ID : TRACEGC83
Operator : 2512
Method : /chem/tracegc83.i/m051005d.b/2ulOLM04_clpest2v6.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 10000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	FLAGS
0.14			1818						
0.71			8575						
0.90			17296						
1.24			673						
1.28			1295						
1.50			372						
2.23			673						
2.84			122						
3.47			200						
3.55			111						
3.98			379						
4.17			499						
4.29	4.23	4.33	20668	1069850	Tetrachloro-m-xylene	0.019319	0.193185		
5.18			822						
6.61			260						
8.63			158						
14.62			228						
16.74			484						
18.97			1856						
19.62	19.51	19.71	31832	1977350	Decachlorobiphenyl	0.016099	0.160000		
19.90			102						
20.19			107						
20.43			116						
20.85			140						

C10/7K

b. Laboratory Control Sample Data

- Tabulated Results (Form I LCP)

- Chromatograms and data system printout(s)

1LCE
LOW CONCENTRATION WATER PESTICIDE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

PMALCS(1)

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 81128 Date Received: _____

Sample Volume: 1000(ML) Date Extracted: 09/28/2005

Concentrated Extract Volume: 2000(UL) Date Analyzed: 10/01/2005

Injection Volume: 1.0(UL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N Extraction: (Sepf/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.086	
76-44-8	Heptachlor	2.4	E
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.089	
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.18	
72-55-9	4,4'-DDE	0.20	
72-20-8	Endrin	0.20	
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.019	J
1031-07-8	Endosulfan sulfate	0.15	
50-29-3	4,4'-DDT	0.0050	J
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.093	
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

1LCE
LOW CONCENTRATION WATER PESTICIDE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

PMALCS(2)

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 81128 Date Received: _____

Sample Volume: 1000(ML) Date Extracted: 09/28/2005

Concentrated Extract Volume: 2000(UL) Date Analyzed: 10/01/2005

Injection Volume: 1.0(UL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N Extraction: (Sepf/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.084	
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	2.6	E
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.16	
72-55-9	4,4'-DDE	0.18	
72-20-8	Endrin	0.18	
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.018	J
1031-07-8	Endosulfan sulfate	0.15	
50-29-3	4,4'-DDT	0.0080	J
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.087	
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

Data File: /chem/tracego80.i/d050930d0LC03.b/065d81128.d

Date : 01-OCT-2005 16:14

Client ID: PMALCS

Sample Info: 81128

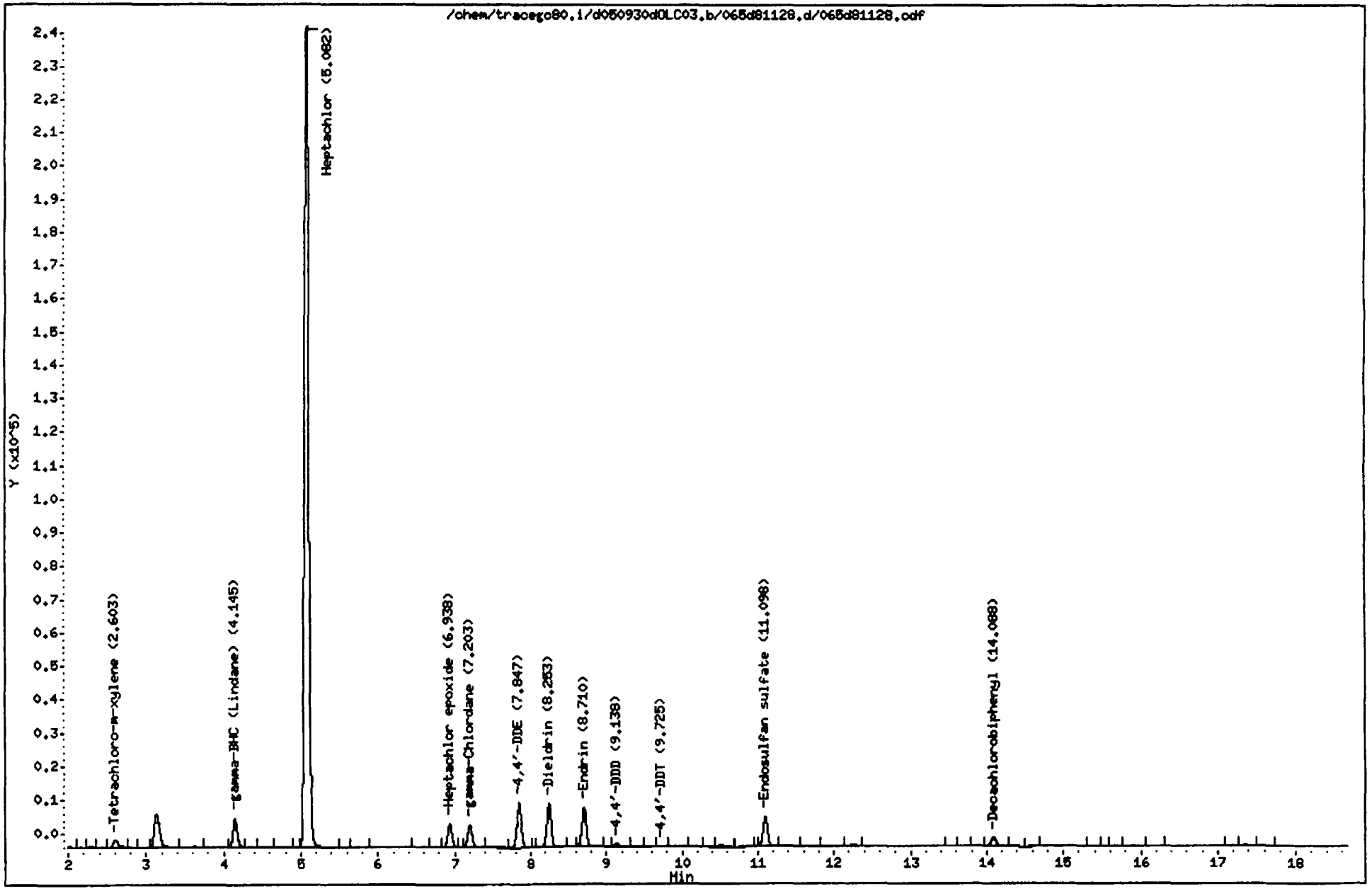
Volume Injected (uL): 1.0

Column phase: olpest

Instrument: tracego80.i

Operator: 2461

Column diameter: 0.53



CompuChem Environmental Corporation

Lab Smp Id : 81128 Client Smp Id : PMALCS
Sample Type : LCS Sublist : olm03
Inj Date : 01-OCT-2005 16:14 Inst ID : TRACEGC80
Operator : 2461 Spike Sublist : LCS
Method : /chem/tracegc80.i/d050930dOLC03.b/olc03_clpest_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 2000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
0.13			863								
0.59			71754								
1.02			1907								
1.10			4929								
1.61			33053								
1.86			3668								
2.16			330								
2.29			538								
2.42			248								
2.60	2.55	2.65	8742	513950	Tetrachloro-m-xylene	0.017007	0.034015		85.0	30 - 150	
2.96			783								
3.13			49513								
3.62			1953								
4.14	4.09	4.19	32510	759250	gamma-BHC (Lindane)	0.042817	0.085635	0.010000	85.6	50 - 120	
4.34			634								
[illegible]			906								
[illegible]			1596								
4.99			644								
5.08	5.00	5.10	930973	784550	Heptachlor	1.186633	2.373266	0.010000			E
5.76			737								
6.51			790								
6.94	6.87	7.01	27180	607700	Heptachlor epoxide	0.044724	0.089449	0.010000	89.4	50 - 150	
7.09			448								
7.20	7.13	7.27	28252	608400	gamma-Chlordane	0.046435	0.092870	0.010000	92.9	30 - 130	
7.47			1011								
7.85	7.78	7.92	52662	526150	4,4'-DDE	0.100089	0.200179	0.020000	100.1	50 - 150	
8.25	8.18	8.32	51941	586725	Dieldrin	0.088525	0.177051	0.020000	88.5	30 - 130	
8.54			468								
8.71	8.64	8.78	47469	485700	Endrin	0.097731	0.195462	0.020000	97.7	50 - 120	
9.14	9.07	9.21	3971	411450	4,4'-DDD	0.009651	0.019302	0.020000			J
9.61			424								
9.72	9.66	9.80	1133	457225	4,4'-DDT	0.002476	0.004952	0.020000			J
10.16			628								
10.37			650								
10.52			3751								
10.85			903								
11.10	11.03	11.17	36671	482850	Endosulfan sulfate	0.075947	0.151894	0.020000	75.9	50 - 120	

CompuChem Environmental Corporation

Lab Smp Id : 81128 Client Smp Id : PMALCS
Sample Type : LCS Sublist : olm03
Inj Date : 01-OCT-2005 16:14 Inst ID :
Operator : 2461 Spike Sublist : LCS
Method : /chem/tracegc80.i/d050930dOLC03.b/olc03_clpest_1ulv2.m
Misc. Info : None

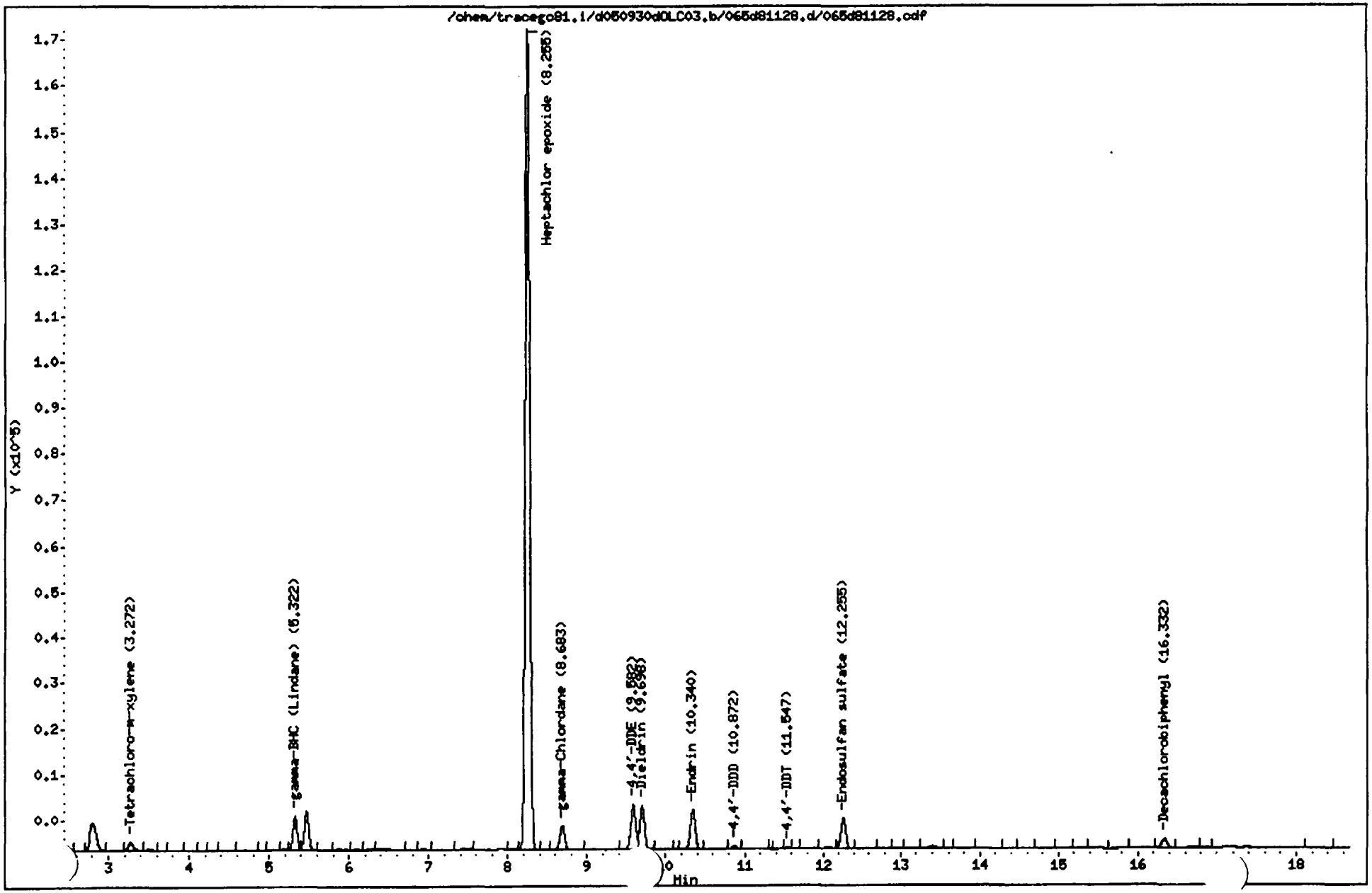
Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 2000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
11.63		735								
12.26		3356								
13.58		254								
13.69		526								
13.87		756								
14.09	13.99 14.19	12580	615700	Decachlorobiphenyl	0.020432	0.040864		102.2	30 - 150	
14.65		1110								
15.42		232								
15.68		286								
16.14		1114								
17.20		304								
17.36		1517								
17.69		772								

Data File: /chem/tracego81.i/d050930d0LC03.b/065d81128.d
Date : 01-OCT-2005 16:14
Client ID: PMALCS
Sample Info: 81128
Volume Injected (uL): 1.0
Column phase: olpest2

Instrument: tracego81.i
Operator: 2461
Column diameter: 0.53



CompuChem Environmental Corporation

Lab Smp Id : 81128 Client Smp Id : PMALCS
Sample Type : LCS Sublist : olm03
Inj Date : 01-OCT-2005 16:14 Inst ID : TRACEGC81
Operator : 2461 Spike Sublist : LCS
Method : /chem/tracegc81.i/d050930dOLC03.b/olc03_clpest2_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 2000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
0.13			786								
0.57			65596								
0.91			833								
1.10			3417								
1.41			3009								
1.64			505								
1.95			295								
2.09			881								
2.26			727								
2.65			312								
2.80			32588								
3.27	3.22	3.32	7407	423700	Tetrachloro-m-xylene	0.017482	0.034963		87.4	30 - 150	
3.52			712								
3.77			369								
4.01			749								
4.18			553								
4.28			740								
4.45			825								
4.92			364								
5.20			456								
5.32	5.27	5.37	26821	637150	gamma-BHC (Lindane)	0.042094	0.084187	0.010000	84.2	50 - 120	
5.46			31705								
5.87			1089								
6.09			608								
6.25			706								
6.43			1357								
6.94			487								
7.45			510								
8.07			388								
8.26	8.19	8.33	688372	530250	Heptachlor epoxide	1.298201	2.596402	0.010000	2596.4*	50 - 150	RE
8.68	8.62	8.76	23038	530000	gamma-Chlordane	0.043466	0.086932	0.010000	86.9	30 - 130	
9.58	9.51	9.65	42185	460650	4,4'-DDE	0.091575	0.183150	0.020000	91.6	50 - 150	
9.70	9.63	9.77	40419	500075	Dieldrin	0.080826	0.161652	0.020000	80.8	30 - 130	
10.00			985								
10.34	10.27	10.41	38288	419850	Endrin	0.091192	0.182384	0.020000	91.2	50 - 120	
10.87	10.80	10.94	3163	348450	4,4'-DDD	0.009074	0.018149	0.020000			J
11.09			749								

CompuChem Environmental Corporation

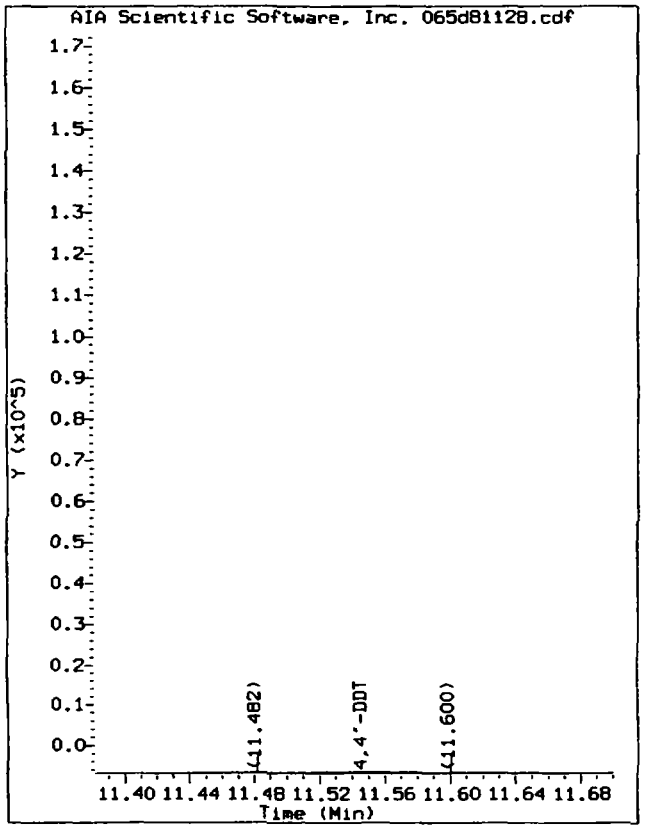
Lab Smp Id : 81128 Client Smp Id : PMALCS
Sample Type : LCS Sublist : olm03
Inj Date : 01-OCT-2005 16:14 Inst ID :
Operator : 2461 Spike Sublist : LCS
Method : /chem/tracegc81.i/d050930dOLC03.b/olc03_clpest2_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 2000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
11.48		476								
11.55	11.48 11.62	1690	420675	4,4'-DDT	0.004015	0.008030	0.020000			JM
11.60		429								
12.06		2300								
12.26	12.19 12.33	29062	400500	Endosulfan sulfate	0.072562	0.145124	0.020000	72.6	50 - 120	
12.80		406								
12.96		294								
13.41		2794								
13.76		488								
14.38		347								
14.58		384								
15.06		501								
15.26		878								
15.78		1587								
16.33	16.23 16.43	9642	482325	Decachlorobiphenyl	0.019991	0.039981		100.0	30 - 150	
?		947								
,		696								
16.41		494								

Manually Integrated Peaks



Start: 11.48 Stop: 11.60

1LCE
LOW CONCENTRATION WATER PESTICIDE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

PLCSAM(1)

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 81128R Date Received: _____

Sample Volume: 500(ML) Date Extracted: 10/05/2005

Concentrated Extract Volume: 1000(UL) Date Analyzed: 10/06/2005

Injection Volume: 1.0(UL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N Extraction: (Sepf/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.0058	J
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.10	
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.011	
1024-57-3	Heptachlor epoxide	0.088	
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.17	
72-55-9	4,4'-DDE	0.19	
72-20-8	Endrin	0.22	
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.15	
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.012	J
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.096	
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

1LCE
LOW CONCENTRATION WATER PESTICIDE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

PLCSAM(2)

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 81128R Date Received: _____

Sample Volume: 500(ML) Date Extracted: 10/05/2005

Concentrated Extract Volume: 1000(UL) Date Analyzed: 10/06/2005

Injection Volume: 1.0(UL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N Extraction: (Sepf/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.12	
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.14	
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.23	
72-55-9	4,4'-DDE	0.22	
72-20-8	Endrin	0.24	
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.17	
50-29-3	4,4'-DDT	0.0050	J
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.022	
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.10	
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

Data File: /chem/tracego82.i/m051005c0LC03.b/058m81128.d

Page 1

Date : 06-OCT-2005 16:23

Client ID: PAHLCS

Instrument: tracego82.i

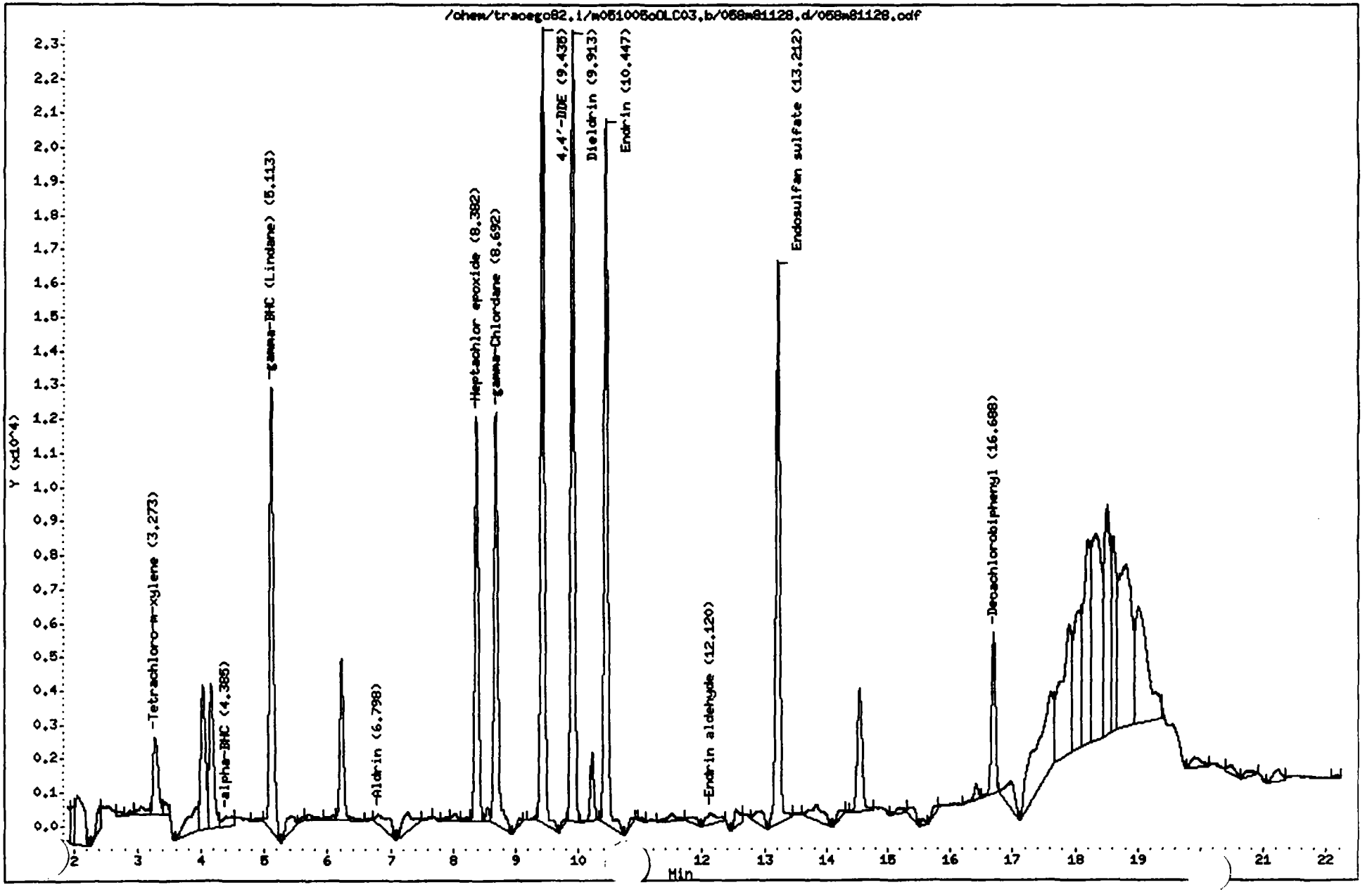
Sample Info: 81128R

Volume Injected (uL): 1.0

Operator: 2461

Column phase: olpest

Column diameter: 0.53



CompuChem Environmental Corporation

Lab Smp Id : 81128R Client Smp Id : PAMLCS
Sample Type : LCS Sublist : olm03
Inj Date : 06-OCT-2005 16:23 Inst ID : TRACEGC82
Operator : 2461 Spike Sublist : LCS
Method : /chem/tracegc82.i/m051005cOLC03.b/olc03_clpest_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 500.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
0.14			6817								
0.72			138266								
0.89			757464								
1.19			35633								
1.32			21500								
1.44			16242								
1.71			27350								
2.00			4399								
2.05			13146								
2.40			3576								
2.72			815								
2.87			666								
3.06			2189								
3.27	3.21	3.31	12091	719050	Tetrachloro-m-xylene	0.016815	0.033630		84.1	30 - 150	M
3.42			1837								
3.92			9374								
4.03			22280								
4.16			21649								
4.38	4.34	4.44	3440	1186150	alpha-BHC	0.002900	0.005800	0.010000			J
4.88			406								
5.11	5.05	5.15	56110	1121350	gamma-BHC (Lindane)	0.050038	0.100076	0.010000	100.1	50 - 120	
5.44			4384								
5.60			540								
5.70			1640								
6.07			915								
6.22			20314								
6.64			266								
6.80	6.78	6.88	5994	1080000	Aldrin	0.005550	0.011100	0.010000			
7.27			6570								
7.62			349								
7.89			602								
8.03			1450								
8.22			755								
8.38	8.29	8.43	47305	1070700	Heptachlor epoxide	0.044181	0.088363	0.010000	88.4	50 - 150	
8.55			1473								
8.69	8.60	8.74	52702	1099000	gamma-Chlordane	0.047955	0.095909	0.010000	95.9	30 - 130	
9.06			878								

CompuChem Environmental Corporation

Lab Smp Id : 81128R Client Smp Id : PAMLCS
Sample Type : LCS Sublist : olm03
Inj Date : 06-OCT-2005 16:23 Inst ID :
Operator : 2461 Spike Sublist : LCS
Method : /chem/tracegc82.i/m051005cOLC03.b/olc03_clpest_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 500.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
9.32		530								
9.44	9.34 9.48	93312	994300	4,4'-DDE	0.093846	0.187692	0.020000	93.8	50 - 150	
9.77		854								
9.91	9.82 9.96	89818	1030725	Dieldrin	0.087140	0.174279	0.020000	87.1	30 - 130	
10.22		8080								
10.45	10.36 10.50	85252	762275	Endrin	0.111838	0.223675	0.020000	111.8	50 - 120	
10.87		1182								
11.01		433								
11.50		2609								
11.82		2260								
12.12	12.03 12.17	4363	743350	Endrin aldehyde	0.005869	0.011739	0.020000			J
12.54		3255								
12.95		3933								
13.21	13.12 13.26	72209	945750	Endosulfan sulfate	0.076351	0.152702	0.020000	76.4	50 - 120	
13.83		6641								
5		1587								
4		20067								
15.19		1538								
15.39		2729								
15.56		752								
15.77		1245								
16.42		2154								
16.69	16.57 16.77	21011	1191025	Decachlorobiphenyl	0.017641	0.035282		88.2	30 - 150	
16.98		8077								
17.61		45772								
17.90		45893								
18.08		34075								
18.21		44067								
18.32		65587								
18.51		48077								
18.60		31106								
18.80		69054								
19.01		47690								
19.89		3652								
20.48		1979								
20.73		1535								
21.23		3268								

CompuChem Environmental Corporation

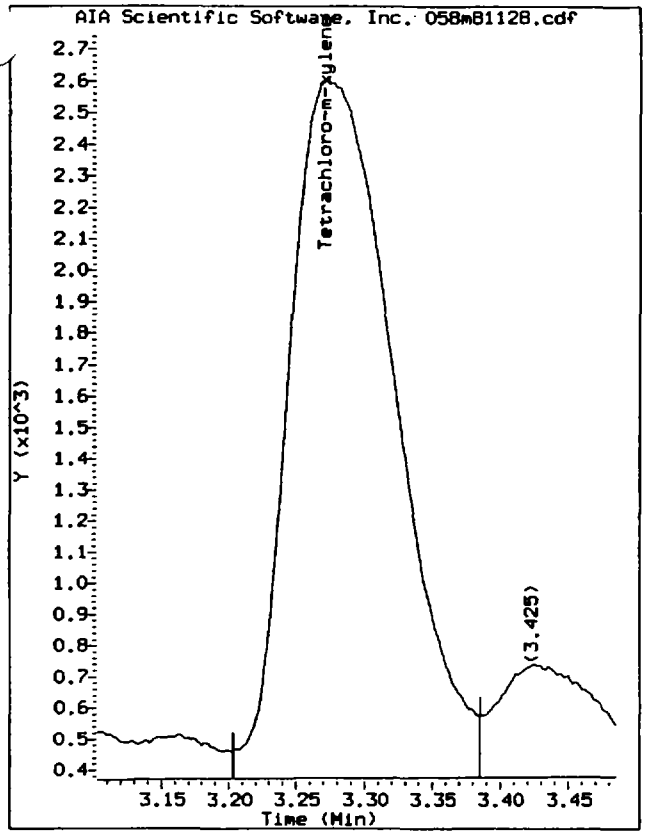
Lab Smp Id : 81128R Client Smp Id : PAMLCS
Sample Type : LCS Sublist : olm03
Inj Date : 06-OCT-2005 16:23 Inst ID :
Operator : 2461 Spike Sublist : LCS
Method : /chem/tracegc82.i/m051005cOLC03.b/olc03_clpest_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 500.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
22.18		358								

Manually Integrated Peaks



Start: 3.20 Stop: 3.38

Data File: /chem/tracegc83.i/m051005a0LC03.b/058m81128.d

Page 1

Date : 06-OCT-2005 16:23

Client ID: PAHLCS

Instrument: tracegc83.i

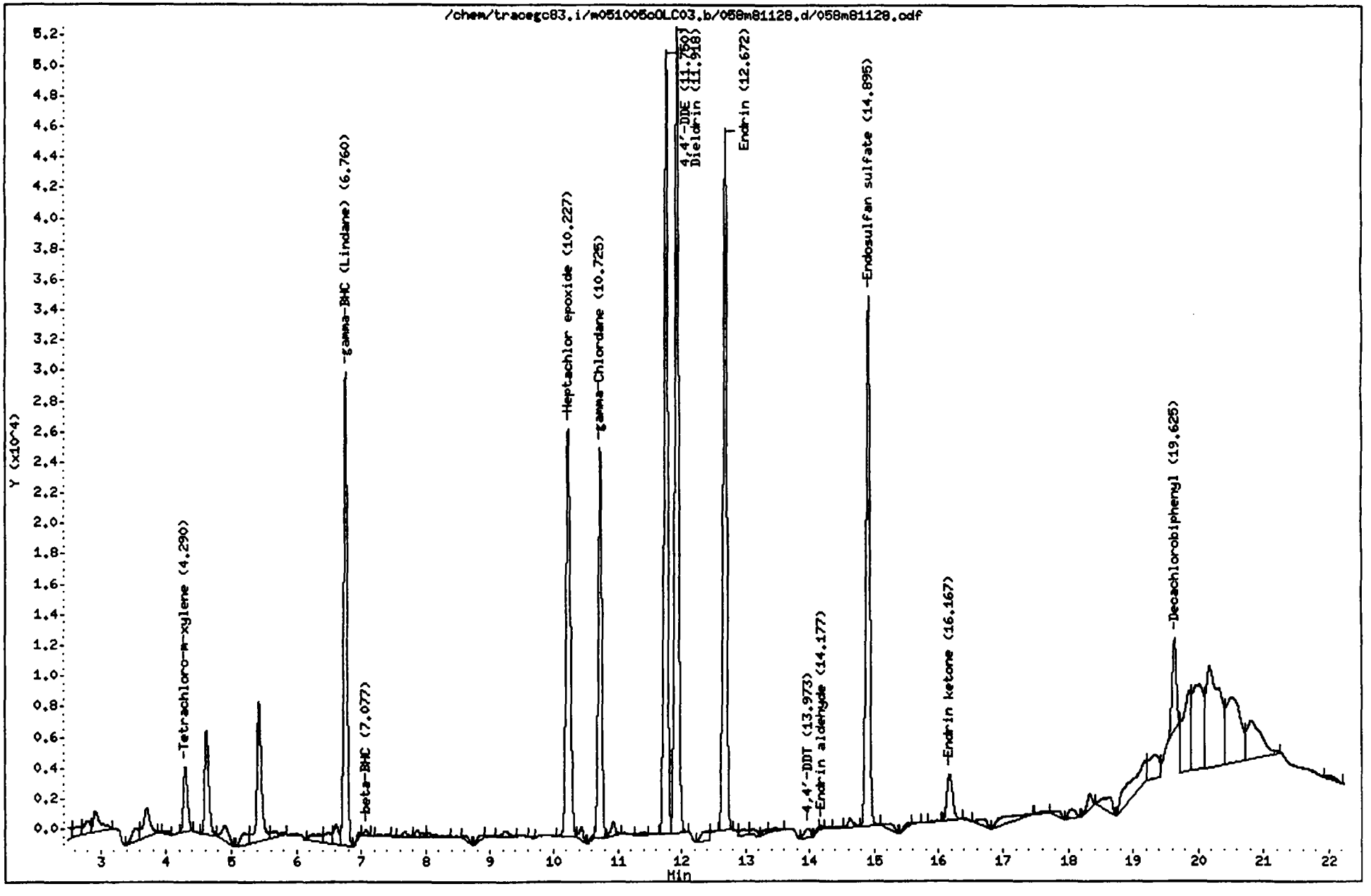
Sample Info: 81128R

Volume Injected (uL): 1.0

Operator: 2461

Column phase: olpest2

Column diameter: 0.53



CompuChem Environmental Corporation

Smp Id : 81128R Client Smp Id : PAMLCS
Sample Type : LCS Sublist : olm03
Inj Date : 06-OCT-2005 16:23 Inst ID : TRACEGC83
Operator : 2461 Spike Sublist : LCS
Method : /chem/tracegc83.i/m051005cOLC03.b/olc03_clpest2_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 500.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
0.14			417								
0.72			140811								
0.91			1533052								
1.36			20609								
1.52			31878								
1.67			28070								
1.85			27581								
2.30			5698								
2.41			10606								
2.65			5008								
2.80			5924								
2.91			10711								
3.54			5681								
3.70			14182								
4.02			794								
4.29	4.23	4.33	19350	1069850	Tetrachloro-m-xylene	0.018086	0.036171		90.4	30 - 150	M
			29749								
			7529								
5.20			5817								
5.43			45224								
5.68			3886								
6.25			5957								
6.48			4947								
6.61			6993								
6.76	6.69	6.79	110009	1903750	gamma-BHC (Lindane)	0.057785	0.115570	0.010000	115.6	50 - 120	
6.97			1442								
7.08			1589								
7.14			172								
7.28			1040								
7.67			1711								
7.86			2651								
8.04			2174								
8.61			1545								
8.85			1724								
9.01			579								
9.24			2610								
9.65			281								

CompuChem Environmental Corporation

Lab Smp Id : 81128R Client Smp Id : PAMLCS
Sample Type : LCS Sublist : olm03
Inj Date : 06-OCT-2005 16:23 Inst ID :
Operator : 2461 Spike Sublist : LCS
Method : /chem/tracegc83.i/m051005cOLC03.b/olc03_clpest2_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 500.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
10.23	10.14 10.28	123619	1782000	Heptachlor epoxide	0.069371	0.138742	0.010000	138.7	50 - 150	
10.44		3320								
10.62		765								
10.72	10.64 10.78	96502	1846350	gamma-Chlordane	0.052266	0.104532	0.010000	104.5	30 - 130	M
10.93		4476								
11.39		928								
11.75	11.66 11.80	193723	1770050	4,4'-DDE	0.109444	0.218889	0.020000	109.4	50 - 150	
11.92	11.83 11.97	216175	1848950	Dieldrin	0.116917	0.233834	0.020000	116.9	30 - 130	
12.39		5458								
12.67	12.58 12.72	179097	1510625	Endrin	0.118558	0.237116	0.020000	118.6	50 - 120	M
12.96		3266								
13.12		2684								
13.31		1171								
13.46		1428								
13.97	13.96 14.10	3812	1522700	4,4'-DDT	0.002503	0.005006	0.020000			J
14.14		259								
14.18		718								
14.28		796								
14.44		530								
14.62		3341								
14.90	14.81 14.95	138600	1655950	Endosulfan sulfate	0.083698	0.167395	0.020000	83.7	50 - 120	
15.15		4373								
15.53		1705								
15.63		534								
15.98		382								
16.17	16.09 16.23	18953	1712350	Endrin ketone	0.011068	0.022136	0.020000			M
16.69		4155								
17.43		10253								
17.60		898								
17.84		2922								
18.05		4863								
18.32		5277								
18.54		10842								
19.19		30593								
19.33		16113								
19.62	19.51 19.71	26890	1977350	Decachlorobiphenyl	0.013599	0.027198		68.0	30 - 150	M
19.85		42608								

CompuChem Environmental Corporation

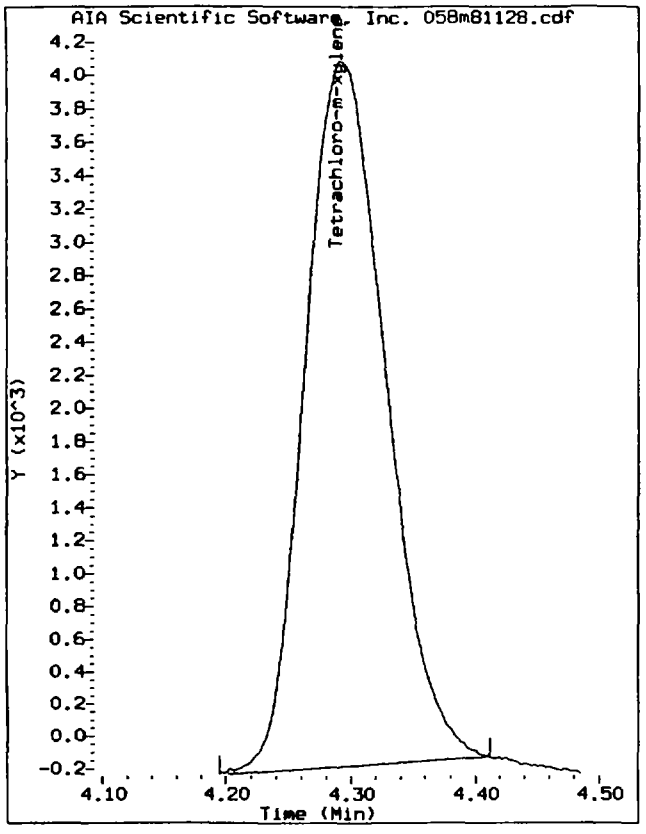
Smp Id : 81128R Client Smp Id : PAMLCS
Sample Type : LCS Sublist : olm03
Inj Date : 06-OCT-2005 16:23 Inst ID :
Operator : 2461 Spike Sublist : LCS
Method : /chem/tracegc83.i/m051005cOLC03.b/olc03_clpest2_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

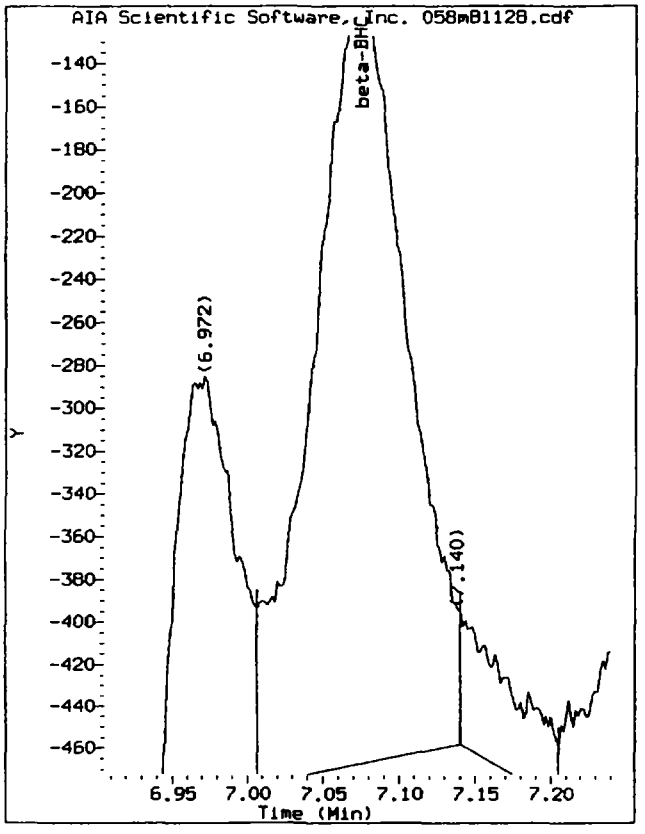
DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 500.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
19.96		61250								
20.16		99164								
20.49		65922								
20.81		36987								
21.99		2335								

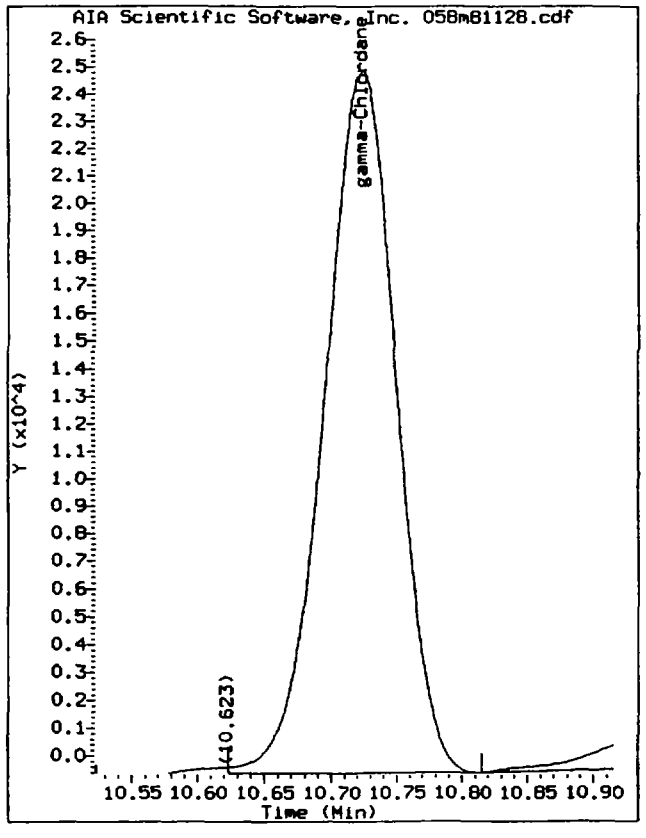
Manually Integrated Peaks



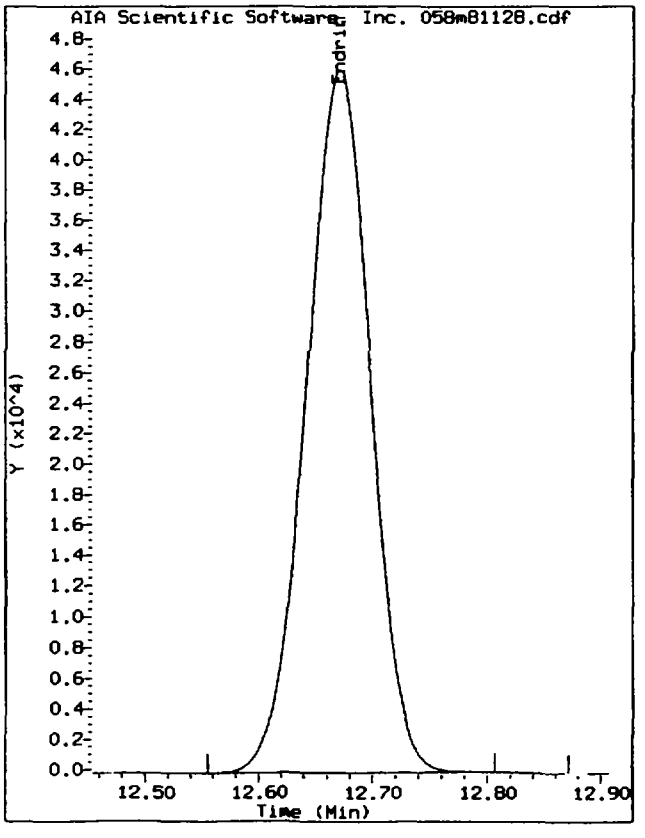
Start: 4.20 Stop: 4.41



Start: 7.01 Stop: 7.14

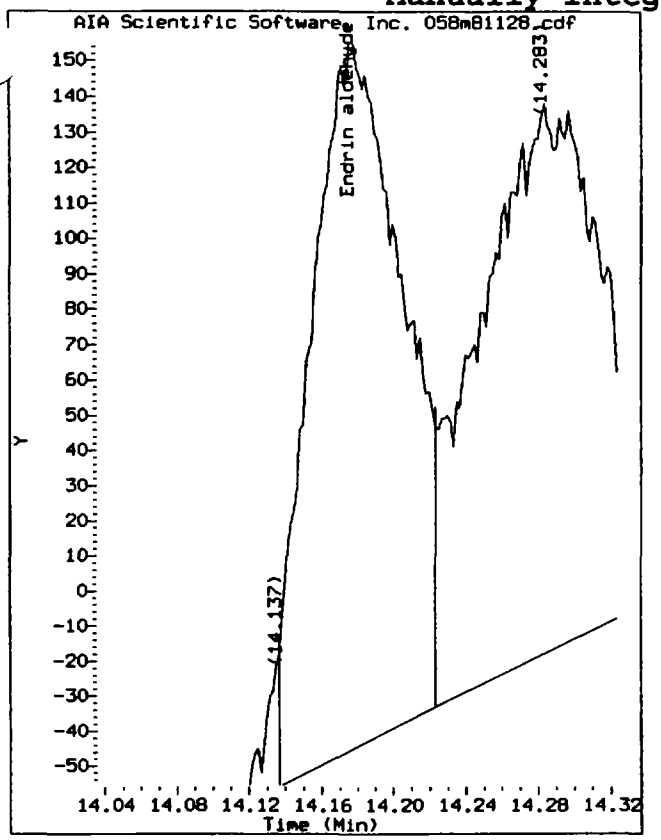


Start: 10.62 Stop: 10.81

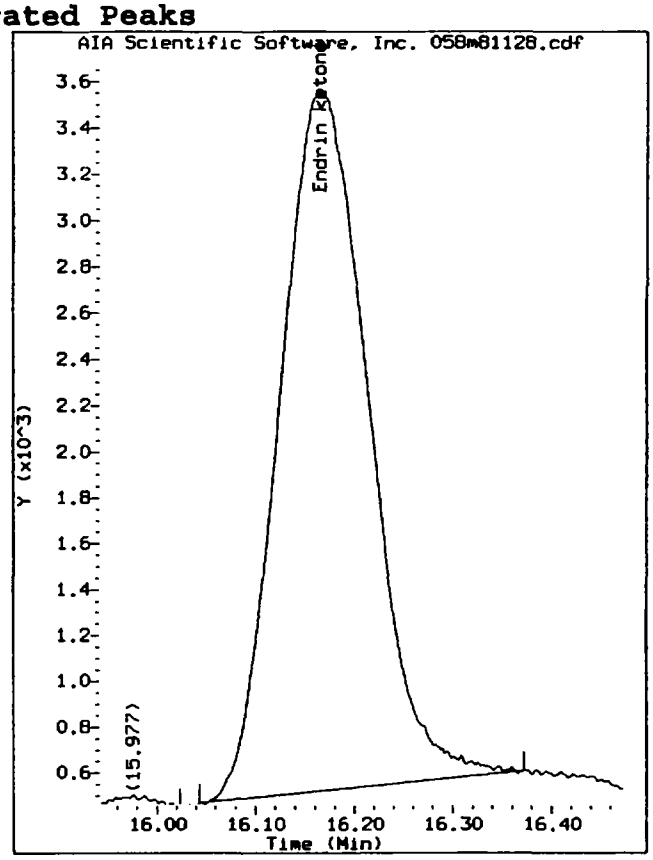


Start: 12.55 Stop: 12.81

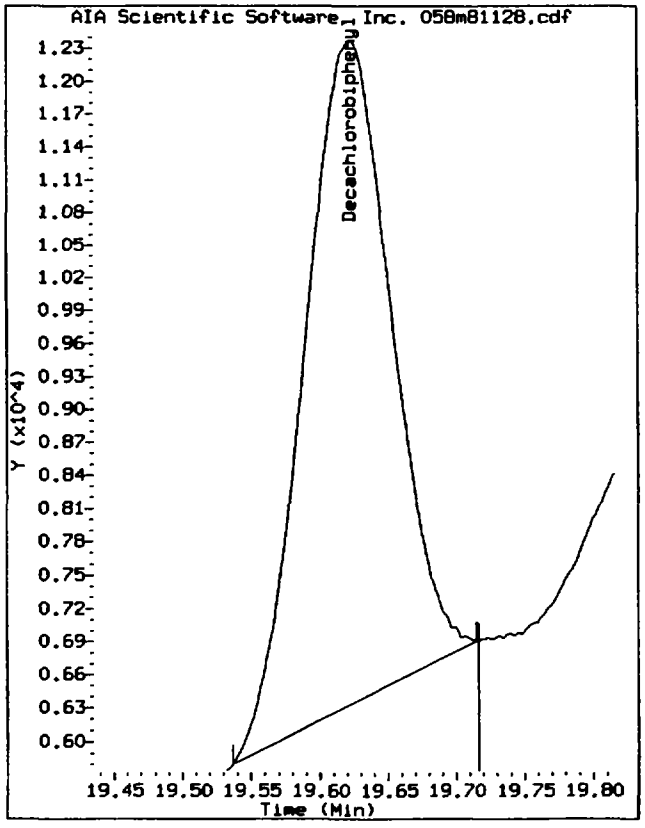
Manually Integrated Peaks



Start: 14.14 Stop: 14.22



Start: 16.04 Stop: 16.37



Start: 19.54 Stop: 19.71

c. Pesticides Matrix Spike Data

- Tabulated Results (Form I LCP)

- Chromatograms and data system printout(s)

1LCE
LOW CONCENTRATION WATER PESTICIDE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

ACSGWPWB26MS(1)

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 81129 Date Received: 09/27/2005

Sample Volume: 1075(ML) Date Extracted: 09/28/2005

Concentrated Extract Volume: 2000(UL) Date Analyzed: 10/01/2005

Injection Volume: 1.0(UL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N Extraction: (Sepf/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.037	
58-89-9	gamma-BHC (Lindane)	0.073	
76-44-8	Heptachlor	4.3	E
309-00-2	Aldrin	0.072	
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.16	
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.17	
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.15	
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.012	J
5103-71-9	alpha-Chlordane	0.0046	J
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

1LCE
LOW CONCENTRATION WATER PESTICIDE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

ACSGWPWB26MS(2)

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 81129 Date Received: 09/27/2005

Sample Volume: 1075(ML) Date Extracted: 09/28/2005

Concentrated Extract Volume: 2000(UL) Date Analyzed: 10/01/2005

Injection Volume: 1.0(UL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N Extraction: (Sepf/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.070	
76-44-8	Heptachlor	0.069	
309-00-2	Aldrin	0.070	
1024-57-3	Heptachlor epoxide	5.0	E
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.15	
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.16	
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.012	J
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.13	
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.019	
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

Data File: /chem/tracego80.i/d050930d0LC03.b/066d81129.d

Page 1

Date : 01-OCT-2005 16:36

Client ID: ACSGWPWB26HS

Instrument: tracego80.i

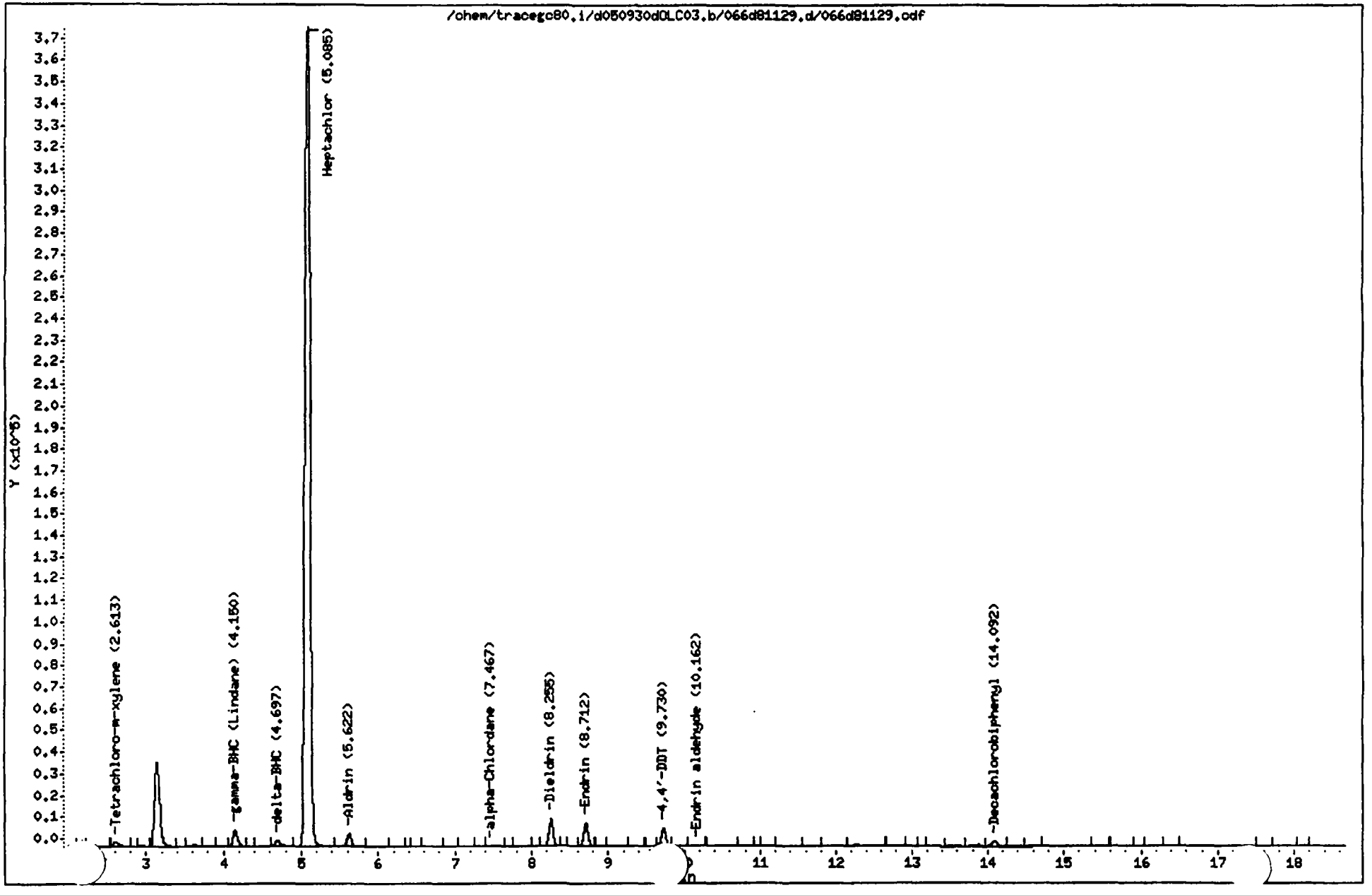
Sample Info: 81129

Volume Injected (uL): 1.0

Operator: 2461

Column phase: clpest

Column diameter: 0.53



CompuChem Environmental Corporation

Lab Smp Id : 81129 Client Smp Id : ACSGWPWB26MS
Sample Type : MS Sublist : olm03
Inj Date : 01-OCT-2005 16:36 Inst ID : TRACEGC80
Operator : 2461 Spike Sublist : WaterMsd
Method : /chem/tracegc80.i/d050930dOLC03.b/olc03_clpest_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 2000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1075.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
0.12			690								
0.68			106305								
1.05			4433								
1.13			7850								
1.66			109430								
1.86			2883								
1.95			7985								
2.31			2474								
2.61	2.55	2.65	8194	513950	Tetrachloro-m-xylene	0.015941	0.029658		79.7	30 - 150	
2.95			1761								
3.15			187460								
3.48			794								
3.63			1851								
4.03			344								
4.15	4.09	4.19	29928	759250	gamma-BHC (Lindane)	0.039417	0.073333	0.010000	78.8	56 - 123	
4.35			541								
4.50			2296								
4.70	4.63	4.73	13136	661850	delta-BHC	0.019846	0.036923	0.010000			
5.08	5.00	5.10	1803472	784550	Heptachlor	2.298733	4.276713	0.010000	4597.5*	40 - 131	RE
5.62	5.57	5.67	24660	636950	Aldrin	0.038716	0.072029	0.010000	77.4	40 - 120	
6.20			381								
6.50			609								
6.64			967								
7.10			381								
7.32			730								
7.47	7.42	7.56	1372	554050	alpha-Chlordane	0.002476	0.004607	0.010000			J
7.84			1425								
8.26	8.18	8.32	49219	586725	Dieldrin	0.083888	0.156070	0.020000	83.9	52 - 126	
8.54			1243								
8.71	8.64	8.78	44423	485700	Endrin	0.091460	0.170158	0.020000	91.5	56 - 121	
8.90			313								
9.15			819								
9.36			909								
9.61			1735								
9.73	9.66	9.80	36479	457225	4,4'-DDT	0.079783	0.148434	0.020000	79.8	38 - 127	
9.90			2643								
10.16	10.09	10.23	2329	367350	Endrin aldehyde	0.006337	0.011790	0.020000			J

CompuChem Environmental Corporation

Smp Id : 81129 Client Smp Id : ACSGWPWB26MS
Sample Type : MS Sublist : olm03
Inj Date : 01-OCT-2005 16:36 Inst ID :
Operator : 2461 Spike Sublist : WaterMsd
Method : /chem/tracegc80.i/d050930dOLC03.b/olc03_clpest_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 2000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1075.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
10.51		2881								
10.84		581								
11.12		368								
11.63		1091								
12.26		6360								
12.82		906								
13.00		714								
13.15		263								
13.55		5285								
13.88		6979								
14.09	13.99 14.19	14203	615700	Decachlorobiphenyl	0.023066	0.042914		115.3	30 - 150	
14.37		3423								
14.66		1524								
15.49		642								
15.76		1694								
16.10		2142								
		814								
		1398								
18.15		203								

Data File: /chem/tracegc81.i/d050930d0LC03.b/066d81129.d

Date : 01-OCT-2005 16:36

Client ID: ACSGWPWB26MS

Instrument: tracegc81.i

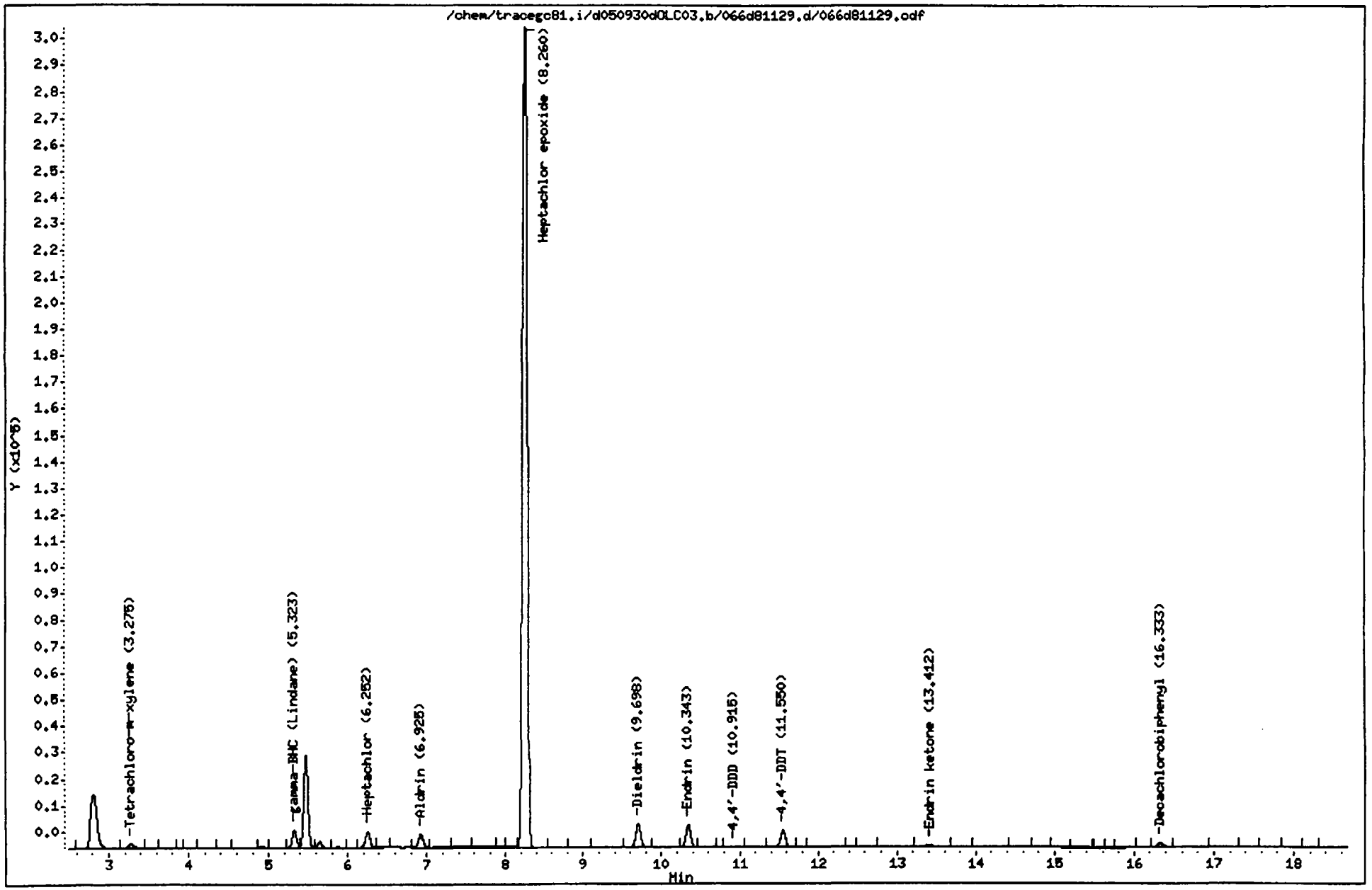
Sample Info: 81129

Volume Injected (uL): 1.0

Operator: 2461

Column phase: clpest2

Column diameter: 0.53



CompuChem Environmental Corporation

Lab Smp Id : 81129 Client Smp Id : ACSGWPWB26MS
Sample Type : MS Sublist : olm03
Inj Date : 01-OCT-2005 16:36 Inst ID : TRACEGC81
Operator : 2461 Spike Sublist : WaterMsd
Method : /chem/tracegc81.i/d050930dOLC03.b/olc03_clpest2_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 2000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1075.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
0.13			646								
0.59			19748								
0.65			77914								
1.10			7738								
1.64			535								
2.09			6551								
2.30			3629								
2.81			119296								
3.28	3.22	3.32	8558	423700	Tetrachloro-m-xylene	0.020198	0.037578		101.0	30 - 150	
3.52			1433								
3.70			1638								
4.03			587								
4.28			712								
4.40			568								
4.92			1235								
	5.27	5.37	24095	637150	gamma-BHC (Lindane)	0.037815	0.070354	0.010000	75.6	56 - 123	
			130150								
5.65			8068								
5.88			648								
6.25	6.20	6.30	24448	662950	Heptachlor	0.036878	0.068609	0.010000	73.8	40 - 131	
6.42			755								
6.92	6.87	6.97	21217	561500	Aldrin	0.037786	0.070300	0.010000	75.6	40 - 120	
7.23			2662								
7.44			4990								
7.71			6851								
7.94			3353								
8.15			5738								
8.26	8.19	8.33	1427539	530250	Heptachlor epoxide	2.692200	5.008744	0.010000			EM
8.88			958								
9.70	9.63	9.77	40484	500075	Dieldrin	0.080954	0.150612	0.020000	81.0	52 - 126	
10.34	10.27	10.41	36377	419850	Endrin	0.086640	0.161192	0.020000	86.6	56 - 121	
10.60			1728								
10.75			642								
10.92	10.80	10.94	2262	348450	4,4'-DDD	0.006492	0.012077	0.020000			J
11.22			2350								
11.55	11.48	11.62	29659	420675	4,4'-DDT	0.070503	0.131169	0.020000	70.5	38 - 127	
12.06			2034								

CompuChem Environmental Corporation

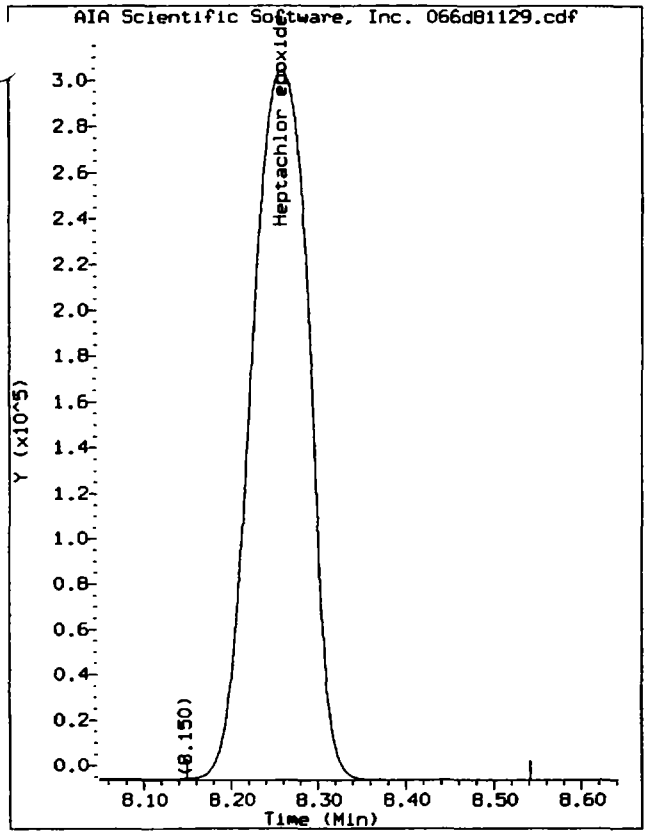
Lab Smp Id : 81129 Client Smp Id : ACSGWPWB26MS
Sample Type : MS Sublist : olm03
Inj Date : 01-OCT-2005 16:36 Inst ID :
Operator : 2461 Spike Sublist : WaterMsd
Method : /chem/tracegc81.i/d050930dOLC03.b/olc03_clpest2_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 2000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1075.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
12.65		436								
13.41	13.28 13.42	4227	414175	Endrin ketone	0.010206	0.018988	0.020000			
13.78		307								
14.60		819								
15.09		2356								
15.28		5420								
15.55		1587								
15.69		918								
15.92		4223								
16.16		2051								
16.33	16.23 16.43	8931	482325	Decachlorobiphenyl	0.018517	0.034449		92.6	30 - 150	
17.14		3345								
17.39		3087								
17.74		2549								
18.01		1462								
18.29		381								

Manually Integrated Peaks



Start: 8.15 Stop: 8.54

1LCE
LOW CONCENTRATION WATER PESTICIDE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

ACSGWPWB
26REMS(1)

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 81129 Date Received: 09/27/2005

Sample Volume: 500(ML) Date Extracted: 10/05/2005

Concentrated Extract Volume: 1000(UL) Date Analyzed: 10/06/2005

Injection Volume: 1.0(UL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N Extraction: (Sepf/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.046	
319-86-8	delta-BHC	0.031	
58-89-9	gamma-BHC (Lindane)	0.092	
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.080	
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.16	
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.18	
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.010	J
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.14	
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

1LCE
LOW CONCENTRATION WATER PESTICIDE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

ACSGWPWB
26REMS(2)

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 81129 Date Received: 09/27/2005

Sample Volume: 500(ML) Date Extracted: 10/05/2005

Concentrated Extract Volume: 1000(UL) Date Analyzed: 10/06/2005

Injection Volume: 1.0(UL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N Extraction: (Sepf/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.094	
76-44-8	Heptachlor	0.089	
309-00-2	Aldrin	0.082	
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.22	
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.21	
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.18	
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

Data File: /chem/tracego82.i/m051005c0LC03.b/059m81129.d

Date : 06-OCT-2005 16:49

Client ID: ACSGWPWB26REMS

Instrument: tracego82.i

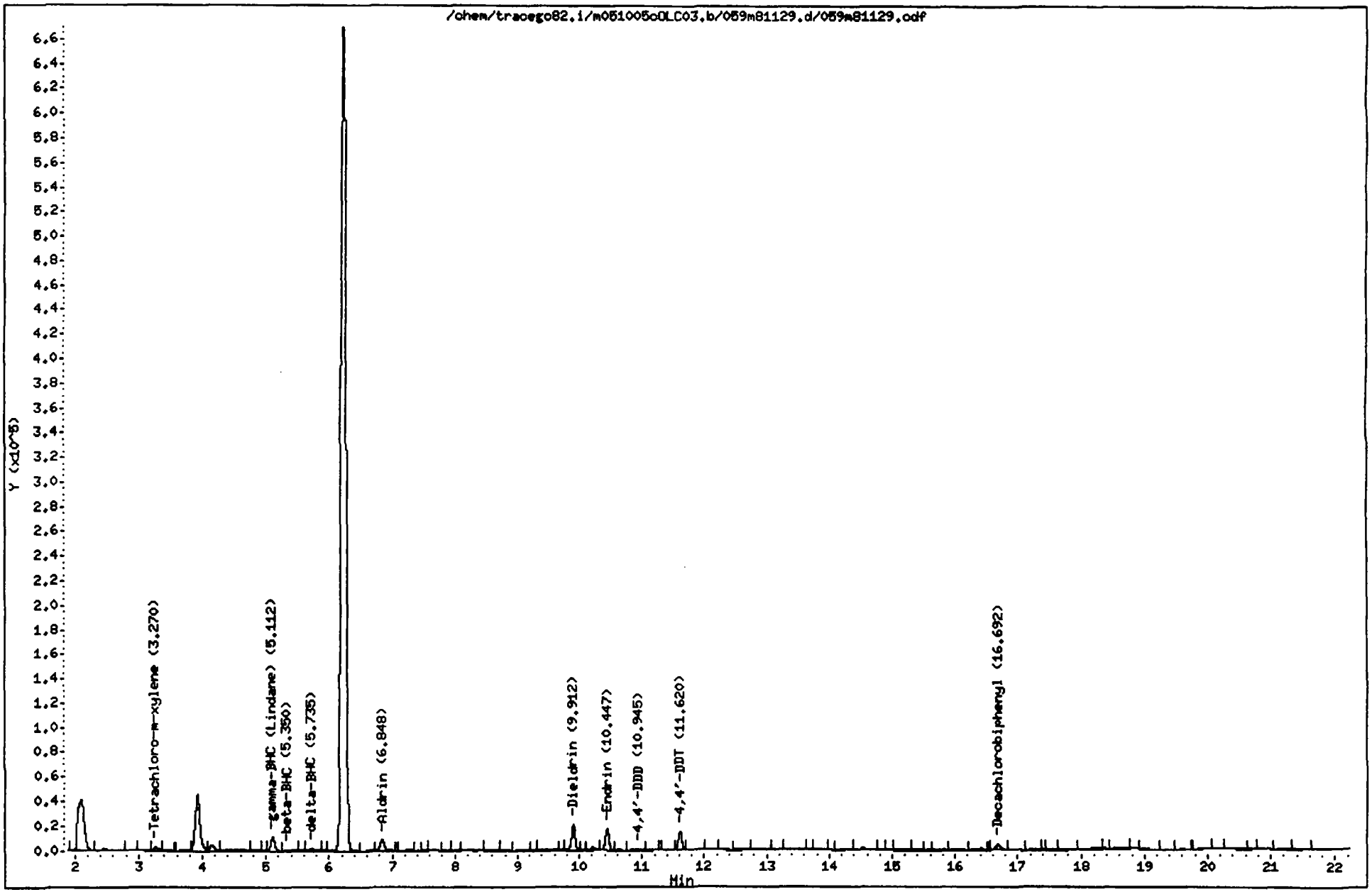
Sample Info: 81129

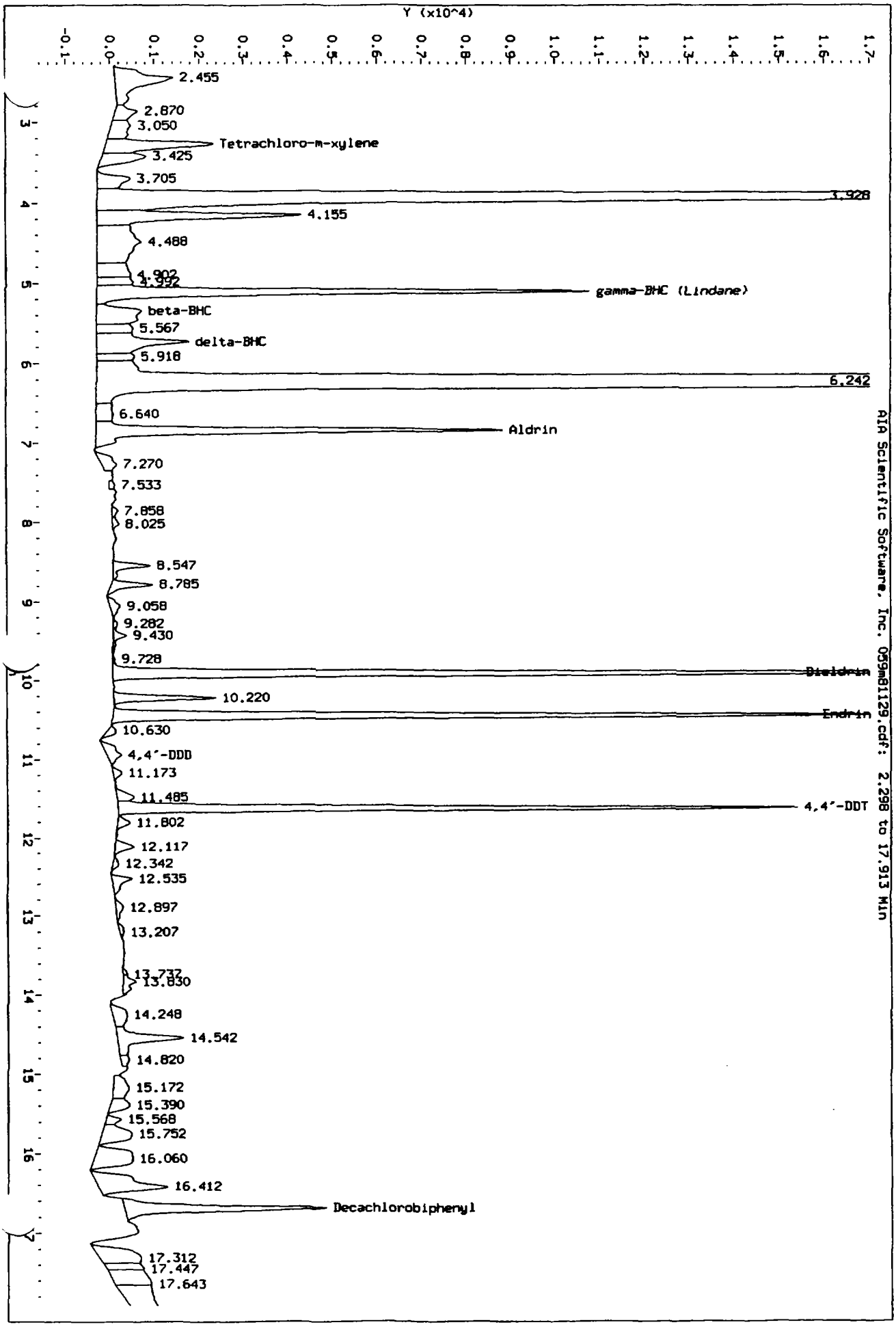
Volume Injected (uL): 1.0

Operator: 2461

Column phase: olpest

Column diameter: 0.53




Data File: /chem/tracegc82.i/m051005c0LC03.b/059m81129.d/059m81129.cdf
Injection Date: 06-OCT-2005 16:49
Instrument: tracegc82.i
Client Sample ID: ACSGWPWB26REMS
Y (x10^4)
-0.1
0.0
0.1
0.2
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
1.7
2.455
2.870
3.050
Tetrachloro-m-xylene
3.425
3.705
3.928
4.155
4.488
4.902
4.992
gamma-BHC (Lindane)
beta-BHC
5.567
delta-BHC
5.918
6.242
6.640
Aldrin
7.270
7.533
7.858
8.025
8.547
8.785
9.058
9.282
9.430
9.728
Dieldrin
10.220
Endrin
10.630
4,4'-DDD
11.173
11.485
4,4'-DDT
11.802
12.117
12.342
12.535
12.897
13.207
13.737
13.830
14.248
14.542
14.820
15.172
15.390
15.568
15.752
16.060
16.412
Decachlorobiphenyl
17.312
17.447
17.643
AIA Scientific Software, Inc. 059m81129.cdf: 2.298 to 17.913 Min

CompuChem Environmental Corporation

Lab Smp Id : 81129 Client Smp Id : ACSGWPWB26REMS
Sample Type : MS Sublist : olm03
Inj Date : 06-OCT-2005 16:49 Inst ID : TRACEGC82
Operator : 2461 Spike Sublist : WaterMsd
Method : /chem/tracegc82.i/m051005cOLC03.b/olc03_clpest_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 500.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
0.14			4975								
0.88			999547								
1.32			17049								
1.44			7501								
1.71			4534								
2.10			289220								
2.46			15027								
2.87			3863								
3.05			5529								
3.27	3.21	3.31	15442	719050	Tetrachloro-m-xylene	0.021474	0.042948		107.4	30 - 150	
3.42			7109								
3.70			6362								
3.93			238406								
4.16			25774								
4.49			22691								
4.90			7398								
4.99			4489								
5.11	5.05	5.15	51309	1121350	gamma-BHC (Lindane)	0.045756	0.091513	0.010000	91.5	56 - 123	
5.35	5.30	5.40	12093	520750	beta-BHC	0.023222	0.046445	0.010000			
5.57			5237								
5.74	5.66	5.76	17592	1126550	delta-BHC	0.015615	0.031230	0.010000			
5.92			4285								
6.24			3649762								
6.64			4970								
6.85	6.78	6.88	43264	1080000	Aldrin	0.040059	0.080119	0.010000	80.1	40 - 120	
7.27			3647								
7.53			643								
7.86			708								
8.03			839								
8.55			3738								
8.79			4261								
9.06			2128								
9.28			459								
9.43			1783								
9.73			195								
9.91	9.82	9.96	79944	1030725	Dieldrin	0.077560	0.155120	0.020000	77.6	52 - 126	
10.22			9216								

CompuChem Environmental Corporation

Lab Smp Id : 81129 Client Smp Id : ACSGWPWB26REMS
Sample Type : MS Sublist : olm03
Inj Date : 06-OCT-2005 16:49 Inst ID :
Operator : 2461 Spike Sublist : WaterMsd
Method : /chem/tracegc82.i/m051005cOLC03.b/olc03_clpest_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 500.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
10.45	10.36 10.50	68689	762275	Endrin	0.090109	0.180218	0.020000	90.1	56 - 121	
10.63		1365								
10.94	10.84 10.98	3541	709125	4,4'-DDD	0.004992	0.009984	0.020000			J
11.17		1158								
11.48		2395								
11.62	11.53 11.67	60582	840075	4,4'-DDT	0.072114	0.144228	0.020000	72.1	38 - 127	
11.80		1750								
12.12		2591								
12.34		832								
12.54		3050								
12.90		1574								
13.21		737								
13.74		355								
13.83		2224								
14.25		4304								
		10856								
		1315								
		4855								
15.39		3615								
15.57		1711								
15.75		7561								
16.06		11881								
16.41		15062								
16.69	16.57 16.77	22849	1191025	Decachlorobiphenyl	0.019183	0.038367		95.9	30 - 150	M
17.31		10760								
17.45		4020								
17.64		9498								
17.91		12443								
18.22		12778								
18.59		5875								
19.00		1852								
19.42		672								
19.59		1928								
19.94		2388								
20.48		2512								
20.75		369								
21.20		1246								

CompuChem Environmental Corporation

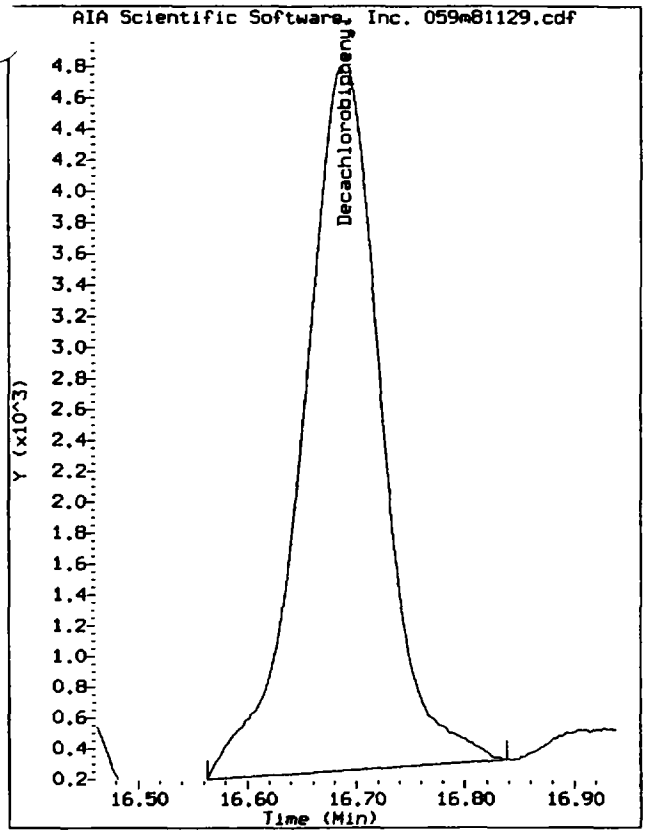
Lab Smp Id : 81129 Client Smp Id : ACSGWPWB26REMS
Sample Type : MS Sublist : olm03
Inj Date : 06-OCT-2005 16:49 Inst ID :
Operator : 2461 Spike Sublist : WaterMsd
Method : /chem/tracegc82.i/m051005cOLC03.b/olc03_clpest_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 500.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
21.51		1170								

Manually Integrated Peaks



Start: 16.56 Stop: 16.84

Data File: /chem/tracegc83.i/m051005oOLC03.b/059m81129.d

Date : 06-OCT-2005 16:49

Client ID: ACSGWPWB26REMS

Sample Info: 81129

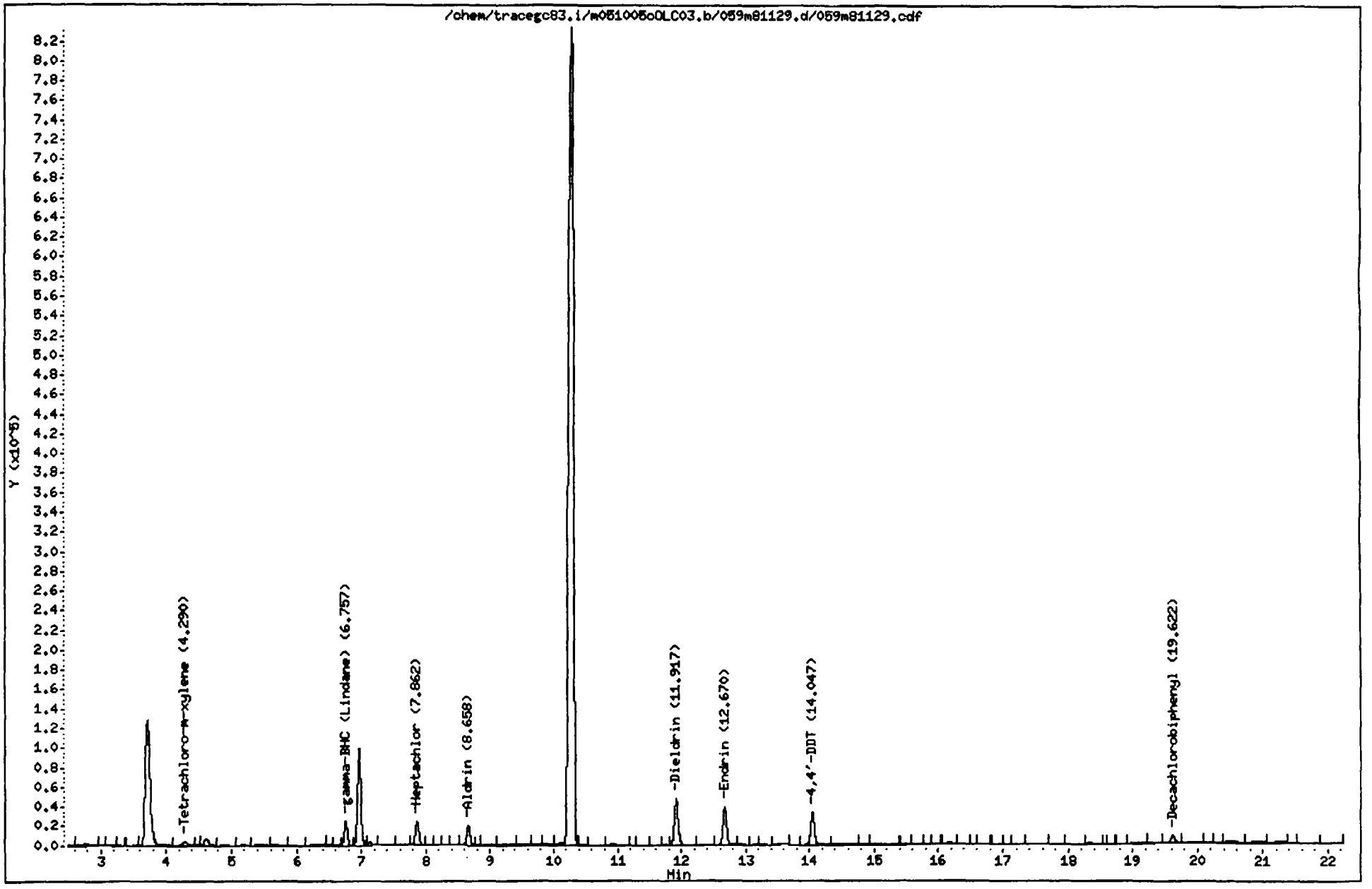
Volume Injected (uL): 1.0

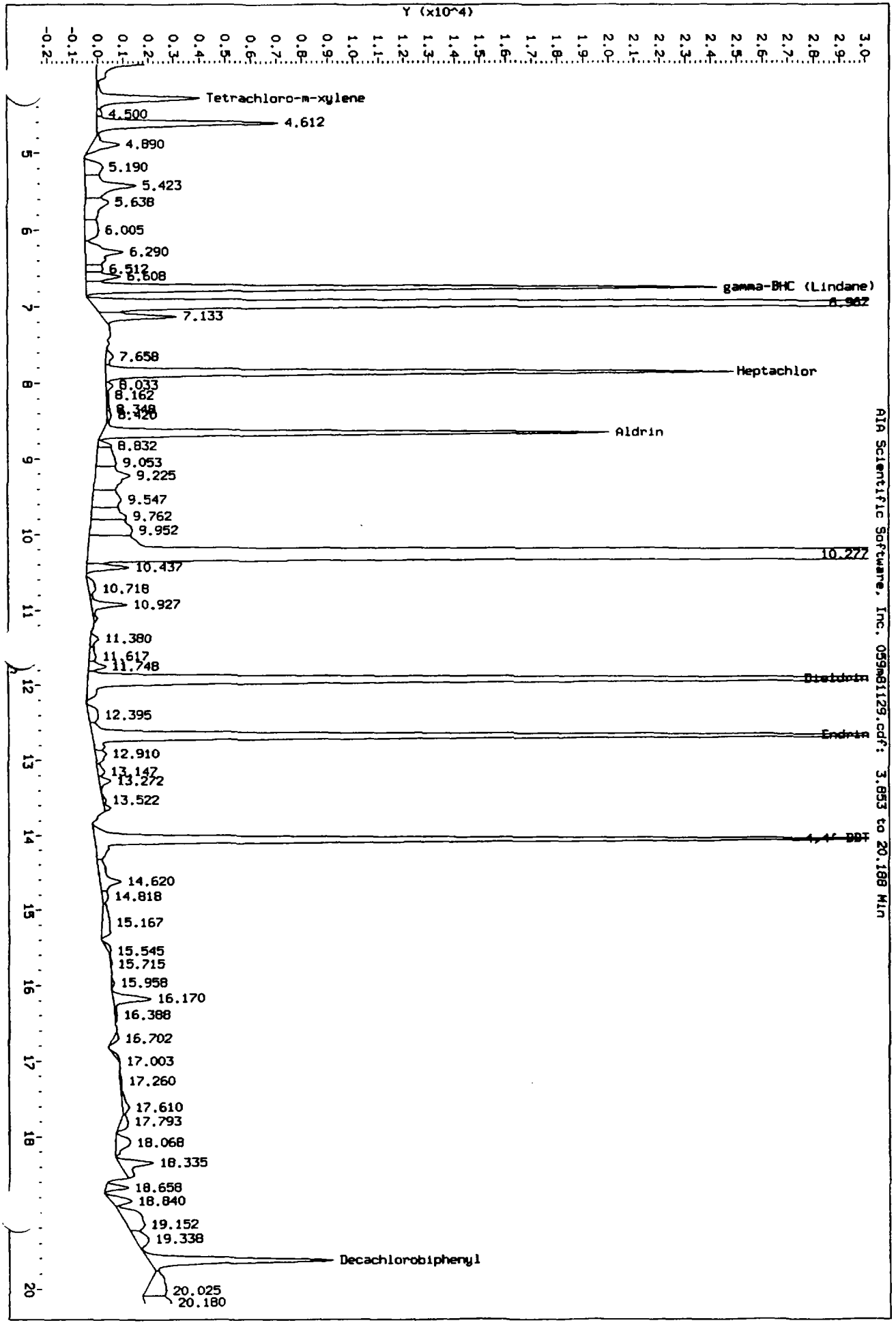
Column phase: clpest2

Instrument: tracegc83.i

Operator: 2461

Column diameter: 0.53




Y (x10^4)
Tetrachloro-m-xylene
4.500
4.612
4.890
5.190
5.423
5.638
6.005
6.290
6.512
6.608
gamma-BHC (Lindane)
6.962
7.133
7.658
Heptachlor
8.033
8.162
8.348
8.420
Aldrin
8.832
9.053
9.225
9.547
9.762
9.952
10.272
10.437
10.718
10.927
11.380
11.617
11.748
Dieldrin
12.395
Endrin
12.910
13.147
13.272
13.522
4,4'-DDT
14.620
14.818
15.167
15.545
15.715
15.958
16.170
16.388
16.702
17.003
17.260
17.610
17.793
18.068
18.335
18.658
18.840
19.152
19.338
Decachlorobiphenyl
20.025
20.180
AIA Scientific Software, Inc. 059mB1129.cdf: 3.853 to 20.188 Min
Data File: /chem/tracegc03.i/m051005cOLC03.b/059mB1129.d/059mB1129.cdf
Injection Date: 06-OCT-2005 16:49
Instrument: tracegc03.i
Client Sample ID: ACSGWPWB26REMS

CompuChem Environmental Corporation

Lab Smp Id : 81129 Client Smp Id : ACSGWPWB26REMS
Sample Type : MS Sublist : olm03
Inj Date : 06-OCT-2005 16:49 Inst ID : TRACEGC83
Operator : 2461 Spike Sublist : WaterMsd
Method : /chem/tracegc83.i/m051005cOLC03.b/olc03_clpest2_lulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 500.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
0.13			11666								
0.91			1918087								
1.28			30906								
1.52			47988								
1.67			32845								
1.84			24482								
2.29			4351								
2.51			8172								
2.78			12495								
3.11			2219								
3.26			2552								
3.53			2148								
3.72			678920								
4.29	4.23	4.33	20659	1069850	Tetrachloro-m-xylene	0.019310	0.038620		96.6	30 - 150	
4.50			1028								
4.61			31504								
4.89			7200								
5.19			6863								
5.42			17558								
5.64			11197								
6.00			7368								
6.29			14078								
6.51			3714								
6.61			6956								
6.76	6.69	6.79	89470	1903750	gamma-BHC (Lindane)	0.046997	0.093993	0.010000	94.0	56 - 123	
6.97			356599								
7.13			12233								
7.66			2344								
7.86	7.80	7.90	95329	2134550	Heptachlor	0.044660	0.089319	0.010000	89.3	40 - 131	M
8.03			1284								
8.16			653								
8.35			663								
8.42			1147								
8.66	8.59	8.69	75551	1839200	Aldrin	0.041078	0.082155	0.010000	82.2	40 - 120	
8.83			2123								
9.05			10244								
9.22			19018								

CompuChem Environmental Corporation

Smp Id : 81129 Client Smp Id : ACSGWPWB26REMS
Sample Type : MS Sublist : olm03
Inj Date : 06-OCT-2005 16:49 Inst ID :
Operator : 2461 Spike Sublist : WaterMsd
Method : /chem/tracegc83.i/m051005cOLC03.b/olc03_clpest2_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 500.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
9.55		14175								
9.76		11970								
9.95		19316								
10.28		4453931								
10.44		7100								
10.72		3037								
10.93		7438								
11.38		2094								
11.62		2324								
11.75		3383								
11.92	11.83 11.97	199235	1848950	Dieldrin	0.107756	0.215512	0.020000	107.8	52 - 126	
12.39		4422								
12.67	12.58 12.72	155619	1510625	Endrin	0.103016	0.206031	0.020000	103.0	56 - 121	
12.91		3346								
13.15		1896								
[illegible]7		2388								
		1656								
[illegible]5	13.96 14.10	136174	1522700	4,4'-DDT	0.089429	0.178859	0.020000	89.4	38 - 127	
14.62		9398								
14.82		1961								
15.17		6950								
15.54		1244								
15.71		409								
15.96		560								
16.17		8278								
16.39		955								
16.70		1559								
17.00		949								
17.26		592								
17.61		2887								
17.79		3290								
18.07		6122								
18.34		8876								
18.66		3654								
18.84		4871								
19.15		12408								
19.34		5590								

CompuChem Environmental Corporation

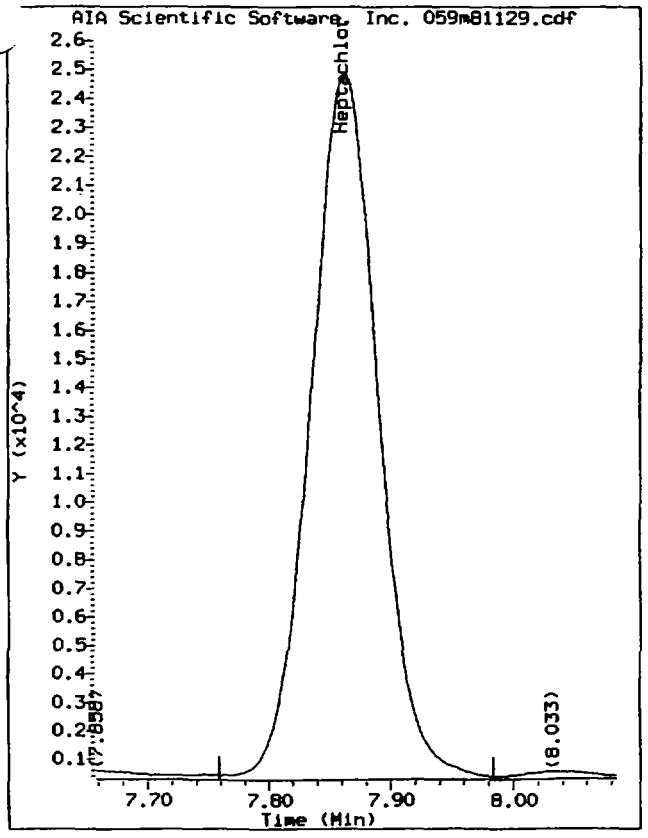
Lab Smp Id : 81129 Client Smp Id : ACSGWPWB26REMS
Sample Type : MS Sublist : olm03
Inj Date : 06-OCT-2005 16:49 Inst ID :
Operator : 2461 Spike Sublist : WaterMsd
Method : /chem/tracegc83.i/m051005cOLC03.b/olc03_clpest2_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 500.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
19.62	19.51 19.71	34019	1977350	Decachlorobiphenyl	0.017204	0.034408		86.0	30 - 150	
20.02		11779								
20.18		8782								
20.34		8902								
20.52		16478								
20.85		10401								
21.22		4017								
21.70		2063								
22.05		2130								

Manually Integrated Peaks



Start: 7.76 Stop: 7.98

d. Pesticides Matrix Spike Duplicate Data

- Tabulated Results (Form I LCP)

- Chromatograms and data system printout(s)

1LCE
LOW CONCENTRATION WATER PESTICIDE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

ACSGWPWB
26MSD(1)

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 81130 Date Received: 09/27/2005

Sample Volume: 1075(ML) Date Extracted: 09/28/2005

Concentrated Extract Volume: 2000(UL) Date Analyzed: 10/01/2005

Injection Volume: 1.0(UL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N Extraction: (Sepf/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.033	
58-89-9	gamma-BHC (Lindane)	0.069	
76-44-8	Heptachlor	3.8	E
309-00-2	Aldrin	0.070	
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.15	
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.16	
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.14	
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.017	J
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

1LCE
LOW CONCENTRATION WATER PESTICIDE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

ACSGWPWB 26MSD(2)

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 81130 Date Received: 09/27/2005

Sample Volume: 1075(ML) Date Extracted: 09/28/2005

Concentrated Extract Volume: 2000(UL) Date Analyzed: 10/01/2005

Injection Volume: 1.0(UL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N Extraction: (Sepf/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.069	
76-44-8	Heptachlor	0.070	
309-00-2	Aldrin	0.068	
1024-57-3	Heptachlor epoxide	4.4	E
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.14	
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.15	
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.015	J
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.13	
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.016	J
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

Data File: /chem/tracego80.i/d050930d0LC03.b/067d81130.d

Date : 01-OCT-2005 16:57

Client ID: ACSGWPWB26MSD

Instrument: tracego80.i

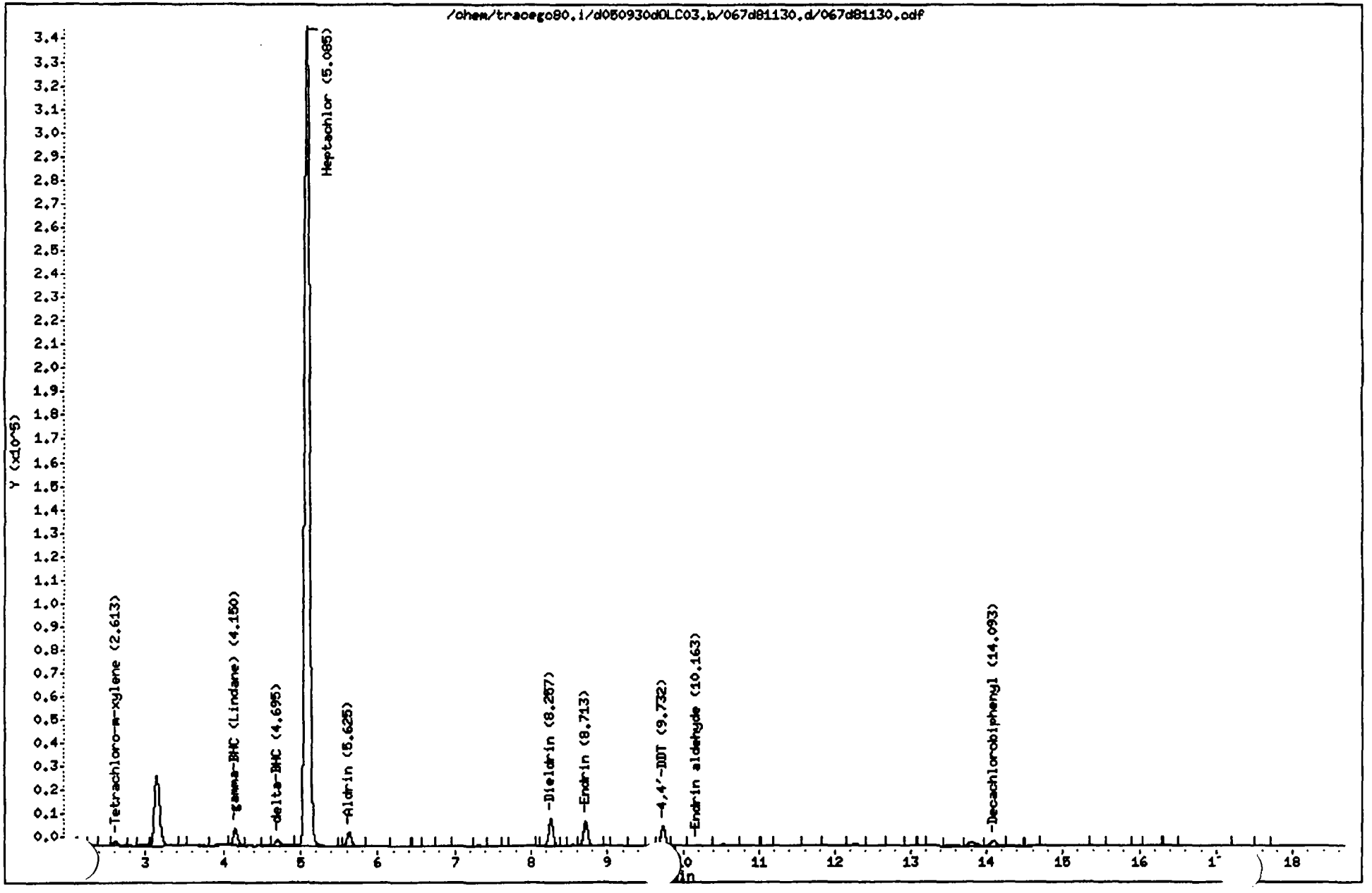
Sample Info: 81130

Volume Injected (uL): 1.0

Operator: 2461

Column phase: olpest

Column diameter: 0.53



CompuChem Environmental Corporation

Lab Smp Id : 81130 Client Smp Id : ACSGWPWB26MSD
Sample Type : MSD Sublist : olm03
Inj Date : 01-OCT-2005 16:57 Inst ID : TRACEGC80
Operator : 2461 Spike Sublist : WaterMsd
Method : /chem/tracegc80.i/d050930dOLC03.b/olc03_clpest_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 2000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1075.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
0.12			826								
0.68			85154								
1.02			5040								
1.38			786								
1.65			87372								
1.86			2441								
1.95			7262								
2.31			1828								
2.61	2.55	2.65	8066	513950	Tetrachloro-m-xylene	0.015694	0.029198		78.5	30 - 150	
2.96			1898								
3.15			146997								
3.63			1158								
4.02			629								
4.15	4.09	4.19	28154	759250	gamma-BHC (Lindane)	0.037080	0.068986	0.010000	74.2	56 - 123	
4.58			459								
4.70	4.63	4.73	11725	661850	delta-BHC	0.017715	0.032959	0.010000			
5.08	5.00	5.10	1591492	784550	Heptachlor	2.028540	3.774028	0.010000	4057.1*	40 - 131	RE
5.62	5.57	5.67	23986	636950	Aldrin	0.037658	0.070061	0.010000	75.3	40 - 120	
6.21			774								
6.50			480								
6.64			774								
6.81			397								
7.31			2014								
7.47			640								
7.85			1501								
8.26	8.18	8.32	46225	586725	Dieldrin	0.078783	0.146573	0.020000	78.8	52 - 126	
8.54			1590								
8.71	8.64	8.78	42616	485700	Endrin	0.087739	0.163236	0.020000	87.7	56 - 121	
9.14			570								
9.35			1075								
9.61			1826								
9.73	9.66	9.80	34988	457225	4,4'-DDT	0.076520	0.142363	0.020000	76.5	38 - 127	
9.90			3134								
10.16	10.09	10.23	3304	367350	Endrin aldehyde	0.008994	0.016733	0.020000			J
10.52			4102								
10.85			963								
11.15			238								

CompuChem Environmental Corporation

Smp Id : 81130 Client Smp Id : ACSGWPWB26MSD
Sample Type : MSD Sublist : olm03
Inj Date : 01-OCT-2005 16:57 Inst ID :
Operator : 2461 Spike Sublist : WaterMsd
Method : /chem/tracegc80.i/d050930dOLC03.b/olc03_clpest_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 2000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1075.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
11.63		950								
12.26		4228								
12.81		1699								
13.00		1322								
13.16		366								
13.57		5266								
13.81		13469								
14.09	13.99 14.19	13585	615700	Decachlorobiphenyl	0.022063	0.041047		110.3	30 - 150	
14.37		3831								
14.65		1318								
15.49		534								
15.76		1333								
16.11		1915								
16.37		745								
17.34		1767								
[illegible]4		1058								

Data File: /chem/tracegc81.i/d050930d0LC03.b/067d81130.d

Date : 01-OCT-2005 16:57

Client ID: ACSGWPWB26MSD

Instrument: tracegc81.i

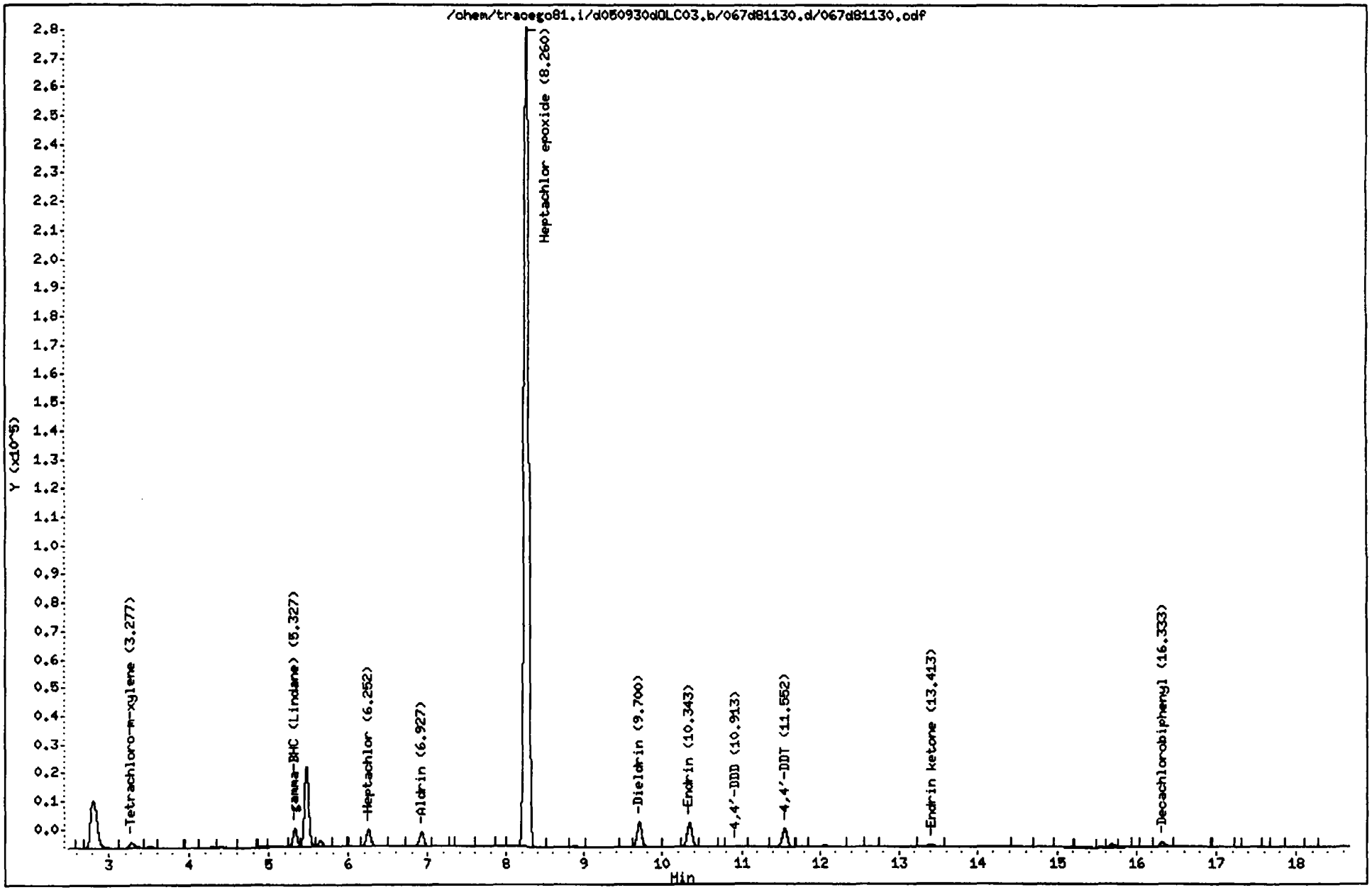
Sample Info: 81130

Volume Injected (uL): 1.0

Operator: 2461

Column phase: clpest2

Column diameter: 0.53



CompuChem Environmental Corporation

Lab Smp Id : 81130 Client Smp Id : ACSGWPWB26MSD
Sample Type : MSD Sublist : olm03
Inj Date : 01-OCT-2005 16:57 Inst ID : TRACEGC81
Operator : 2461 Spike Sublist : WaterMsd
Method : /chem/tracegc81.i/d050930dOLC03.b/olc03_clpest2_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 2000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1075.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
0.12			1526								
0.64			90190								
1.10			8692								
1.38			3228								
1.63			427								
1.86			1523								
2.09			4527								
2.31			3147								
2.81			94681								
3.28	3.22	3.32	7346	423700	Tetrachloro-m-xylene	0.017338	0.032256		86.7	30 - 150	
3.52			890								
3.71			1718								
4.03			719								
4.29			358								
4.70			1021								
52			1419								
3	5.27	5.37	23490	637150	gamma-BHC (Lindane)	0.036867	0.068590	0.010000	73.7	56 - 123	
47			106301								
5.65			*8069*								
5.88			750								
6.11			393								
6.25	6.20	6.30	25046	662950	Heptachlor	0.037780	0.070288	0.010000	75.6	40 - 131	
6.61			495								
6.93	6.87	6.97	20662	561500	Aldrin	0.036798	0.068461	0.010000	73.6	40 - 120	
7.23			384								
7.44			748								
7.94			706								
8.26	8.19	8.33	1263878	530250	Heptachlor epoxide	2.383551	4.434514	0.010000			E
8.88			1675								
9.59			611								
9.70	9.63	9.77	38451	500075	Dieldrin	0.076888	0.143048	0.020000	76.9	52 - 126	
10.34	10.27	10.41	34977	419850	Endrin	0.083308	0.154992	0.020000	83.3	56 - 121	
10.61			1916								
10.76			500								
10.91	10.80	10.94	2808	348450	4,4'-DDD	0.008059	0.014993	0.020000			J
11.22			2419								
11.55	11.48	11.62	28389	420675	4,4'-DDT	0.067482	0.125548	0.020000	67.5	38 - 127	

CompuChem Environmental Corporation

Lab Smp Id : 81130 Client Smp Id : ACSGWPWB26MSD
Sample Type : MSD Sublist : olm03
Inj Date : 01-OCT-2005 16:57 Inst ID :
Operator : 2461 Spike Sublist : WaterMsd
Method : /chem/tracegc81.i/d050930dOLC03.b/olc03_clpest2_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 2000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1075.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
11.78		293								
12.06		2847								
12.67		370								
13.41	13.28 13.42	3531	414175	Endrin ketone	0.008525	0.015861	0.020000			J
14.60		739								
15.07		2399								
15.28		5235								
15.56		1082								
15.69		4907								
15.87		984								
16.14		1041								
16.33	16.23 16.43	7933	482325	Decachlorobiphenyl	0.016445	0.030596		82.2	30 - 150	
16.71		2421								
17.13		1101								
17.40		1212								
17.73		755								
18.25		286								

1LCE
LOW CONCENTRATION WATER PESTICIDE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

ACSGWPWB2
6REMSD(1)

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 81130 Date Received: 09/27/2005

Sample Volume: 500(ML) Date Extracted: 10/05/2005

Concentrated Extract Volume: 1000(UL) Date Analyzed: 10/06/2005

Injection Volume: 1.0(UL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N Extraction: (Sepf/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.017	
319-86-8	delta-BHC	0.015	
58-89-9	gamma-BHC (Lindane)	0.082	
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.069	
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.16	
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.19	
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.15	
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

1LCE
LOW CONCENTRATION WATER PESTICIDE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

ACSGWPWB2
6REMSD(2)

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 81130 Date Received: 09/27/2005

Sample Volume: 500(ML) Date Extracted: 10/05/2005

Concentrated Extract Volume: 1000(UL) Date Analyzed: 10/06/2005

Injection Volume: 1.0(UL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N Extraction: (Sepf/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.094	
76-44-8	Heptachlor	0.087	
309-00-2	Aldrin	0.085	
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.20	
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.20	
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.17	
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

Data File: /chem/tracego82.i/m051005cOLC03.b/060m81130.d

Date : 06-OCT-2005 17:14

Client ID: ACSGWPWB26REHSD

Instrument: tracego82.i

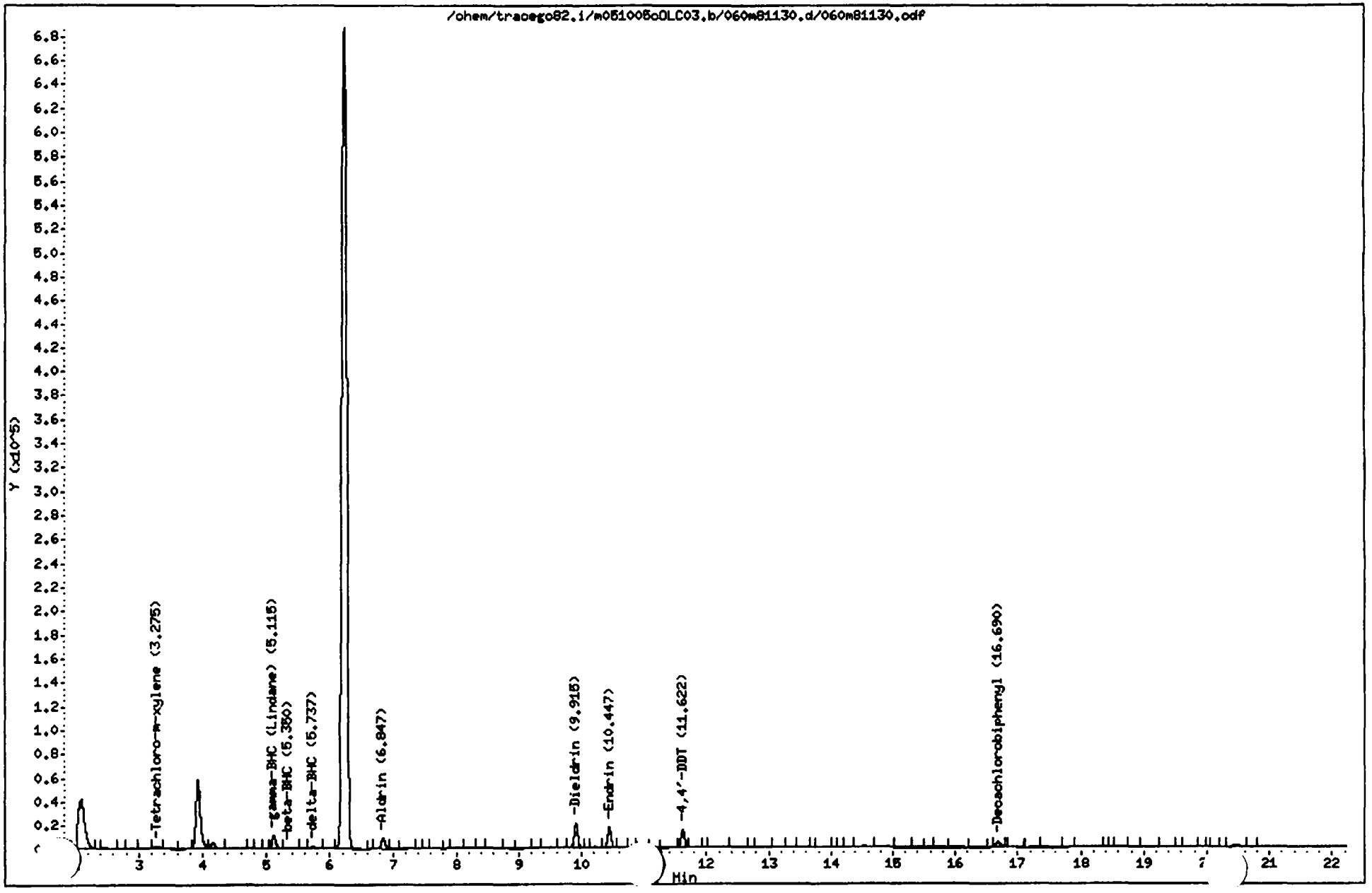
Sample Info: 81130

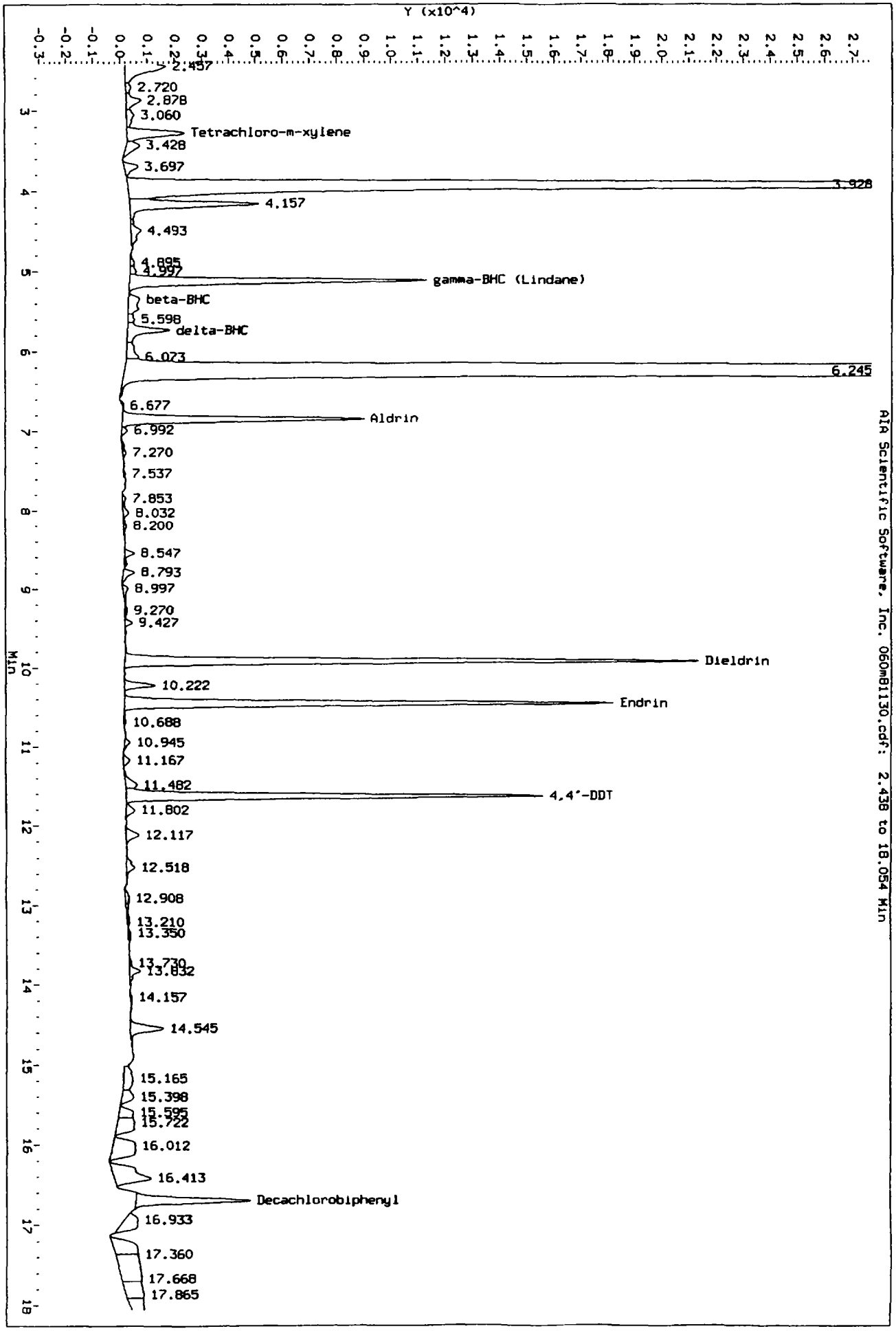
Volume Injected (uL): 1.0

Operator: 2461

Column phase: olpest

Column diameter: 0.53




Data File: /chem/tracegc02.i/m051005c0LC03.b/060m81130.d/060m81130.cdf
Injection Date: 06-OCT-2005 17:14
Instrument: tracegc02.i
Client Sample ID: ACSGWPWB26REMSD
Y (x10^4)
Min
2.457
2.720
2.878
3.060
Tetrachloro-m-xylene
3.428
3.697
3.928
4.157
4.493
4.895
4.997
gamma-BHC (Lindane)
beta-BHC
5.598
delta-BHC
6.023
6.245
6.677
Aldrin
6.992
7.270
7.537
7.853
8.032
8.200
8.547
8.793
8.997
9.270
9.427
Dieldrin
10.222
Endrin
10.688
10.945
11.167
11.482
4,4'-DDT
11.802
12.117
12.518
12.908
13.210
13.350
13.730
13.832
14.157
14.545
15.165
15.398
15.595
15.722
16.012
16.413
Decachlorobiphenyl
16.933
17.360
17.668
17.865
AIA Scientific Software, Inc. 060m81130.cdf: 2.438 to 18.054 Min

CompuChem Environmental Corporation

Lab Smp Id : 81130 Client Smp Id : ACSGWPWB26REMSD
Sample Type : MSD Sublist : olm03
Inj Date : 06-OCT-2005 17:14 Inst ID : TRACEGC82
Operator : 2461 Spike Sublist : WaterMsd
Method : /chem/tracegc82.i/m051005cOLC03.b/olc03_clpest_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 500.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
0.14			6031								
0.89			940358								
1.32			23735								
1.44			37130								
1.70			13859								
2.10			302810								
2.36			4475								
2.46			11990								
2.72			1140								
2.88			3474								
3.06			2307								
3.28	3.21	3.31	11216	719050	Tetrachloro-m-xylene	0.015598	0.031197		78.0	30 - 150	
3.43			3506								
3.70			2900								
3.93			290386								
6			23332								
9			3457								
4.89			807								
5.00			1051								
5.12	5.05	5.15	45910	1121350	gamma-BHC (Lindane)	0.040941	0.081882	0.010000	81.9	56 - 123	
5.35	5.30	5.40	4397	520750	beta-BHC	0.008444	0.016887	0.010000			
5.60			1277								
5.74	5.66	5.76	8410	1126550	delta-BHC	0.007464	0.014929	0.010000			
6.07			3584								
6.25			3787224								
6.68			239								
6.85	6.78	6.88	37343	1080000	Aldrin	0.034577	0.069154	0.010000	69.2	40 - 120	M
6.99			969								
7.27			1026								
7.54			286								
7.85			515								
8.03			1330								
8.20			707								
8.55			1765								
8.79			2007								
9.00			1350								
9.27			565								

CompuChem Environmental Corporation

Lab Smp Id : 81130 Client Smp Id : ACSGWPWB26REMSD
Sample Type : MSD Sublist : olm03
Inj Date : 06-OCT-2005 17:14 Inst ID :
Operator : 2461 Spike Sublist : WaterMsd
Method : /chem/tracegc82.i/m051005cOLC03.b/olc03_clpest_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 500.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
9.43		1198								
9.92	9.82 9.96	83640	1030725	Dieldrin	0.081146	0.162292	0.020000	81.1	52 - 126	
10.22		4528								
10.45	10.36 10.50	70799	762275	Endrin	0.092877	0.185754	0.020000	92.9	56 - 121	
10.69		375								
10.95		919								
11.17		1225								
11.48		2772								
11.62	11.53 11.67	61585	840075	4,4'-DDT	0.073308	0.146615	0.020000	73.3	38 - 127	
11.80		1840								
12.12		3047								
12.52		2101								
12.91		1572								
13.21		738								
13.35		596								
13.73		270								
13.83		2262								
14.16		291								
14.54		6671								
15.16		4953								
15.40		3372								
15.60		3586								
15.72		7280								
16.01		11601								
16.41		14152								
16.69	16.57 16.77	18972	1191025	Decachlorobiphenyl	0.015929	0.031858		79.6	30 - 150	M
16.93		6691								
17.36		9719								
17.67		15628								
17.86		8149								
18.30		10196								
18.51		588								
18.59		2349								
18.99		1107								
19.43		529								
19.61		239								
19.95		309								

CompuChem Environmental Corporation

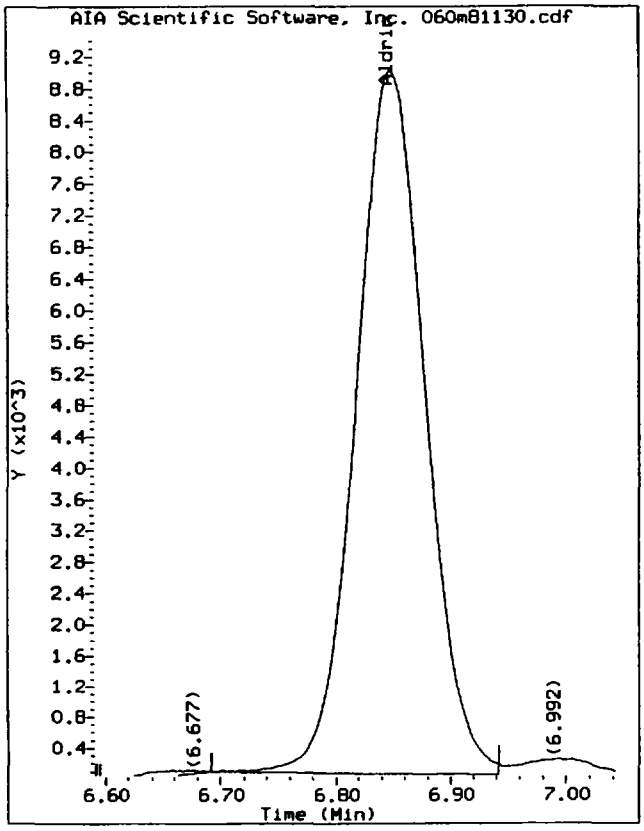
Smp Id : 81130 Client Smp Id : ACSGWPWB26REMSD
Sample Type : MSD Sublist : olm03
Inj Date : 06-OCT-2005 17:14 Inst ID :
Operator : 2461 Spike Sublist : WaterMsd
Method : /chem/tracegc82.i/m051005cOLC03.b/olc03_clpest_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

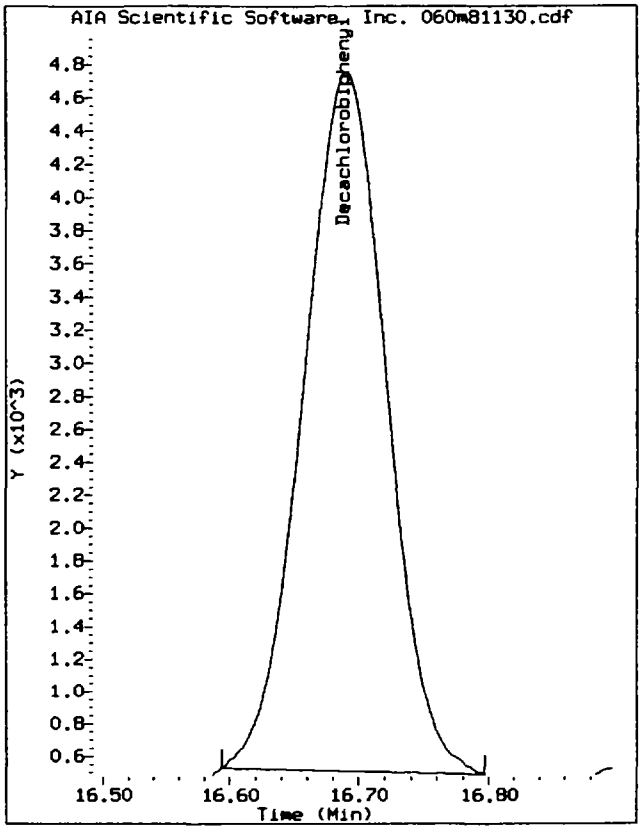
DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 500.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
20.18		338								
20.49		1890								
20.73		488								

Manually Integrated Peaks



Start: 6.69 Stop: 6.94



Start: 16.59 Stop: 16.80

Data File: /chem/tracego83.i/m051005c0LC03.b/060m81130.d

Date : 06-OCT-2005 17:14

Client ID: ACSGWPWB26REMSD

Instrument: tracego83.i

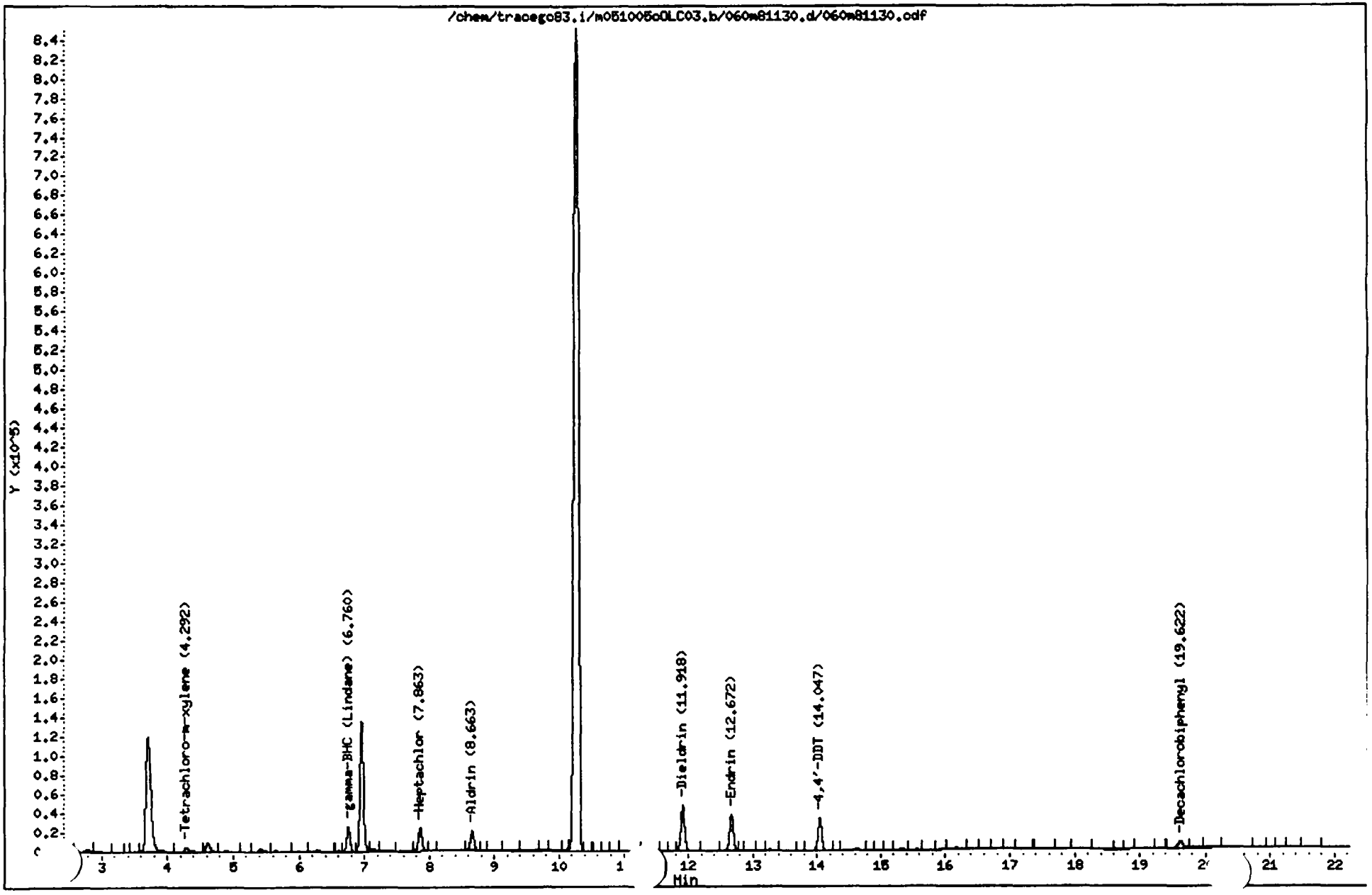
Sample Info: 81130

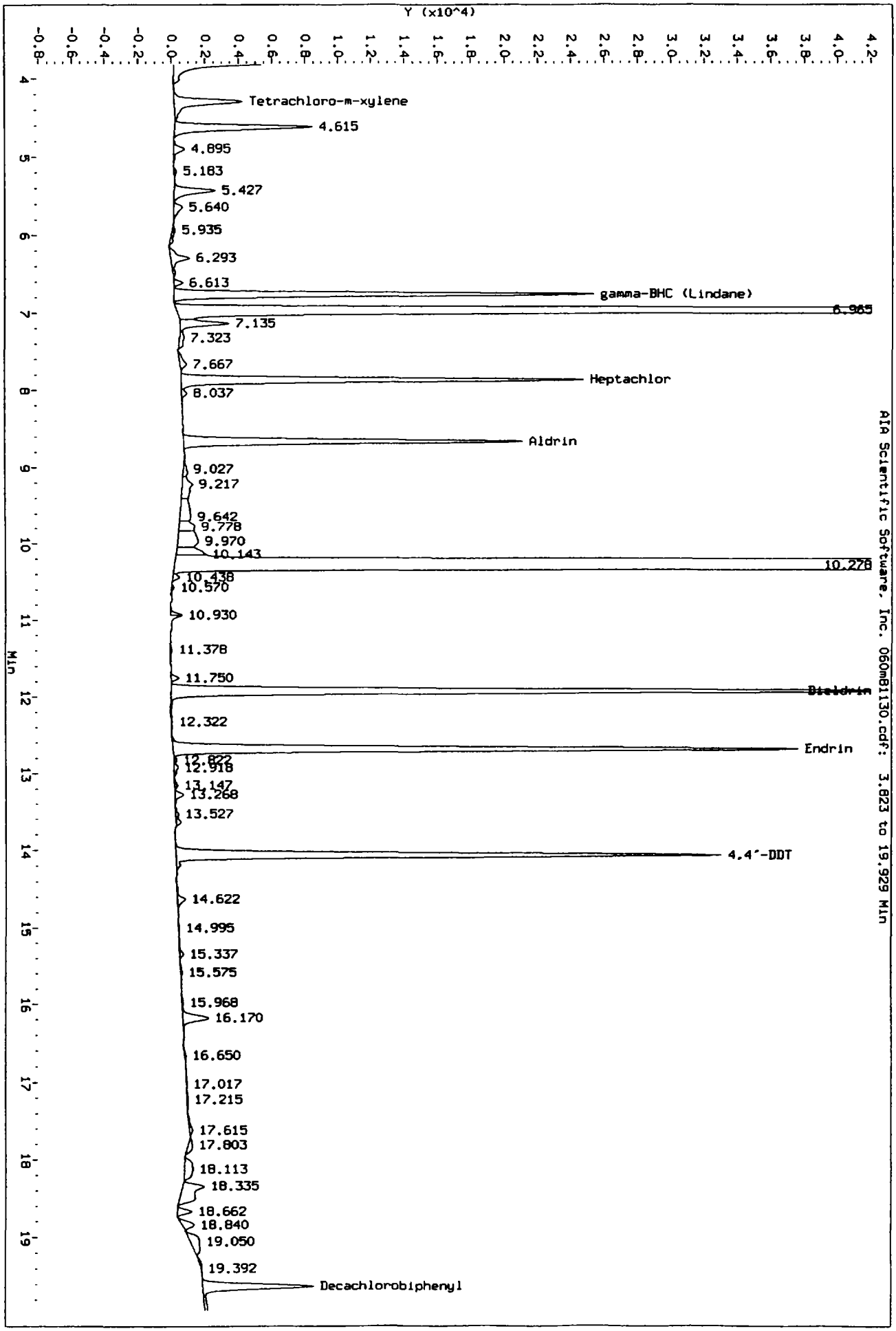
Volume Injected (uL): 1.0

Operator: 2461

Column phase: olpest2

Column diameter: 0.53




Data File: /chem/tracegc83.i/m051005cOLC03.b/060m81130.d/060m81130.cdf
Injection Date: 06-OCT-2005 17:14
Instrument: tracegc83.i
Client Sample ID: ACSGWPW826REMSD
Y (x10^4)
Min
Tetrachloro-m-xylene
4.615
4.895
5.183
5.427
5.640
5.935
6.293
6.613
gamma-BHC (Lindane)
6.965
7.135
7.323
7.667
Heptachlor
8.037
Aldrin
9.027
9.217
9.642
9.778
9.970
10.143
10.278
10.438
10.570
10.930
11.378
11.750
Dieldrin
12.322
Endrin
12.822
12.918
13.147
13.268
13.527
4,4'-DDT
14.622
14.995
15.337
15.575
15.968
16.170
16.650
17.017
17.215
17.615
17.803
18.113
18.335
18.662
18.840
19.050
19.392
Decachlorobiphenyl
AIA Scientific Software, Inc. 060m81130.cdf: 3.823 to 19.929 Min

CompuChem Environmental Corporation

Smp Id : 81130 Client Smp Id : ACSGWPWB26REMSD
Sample Type : MSD Sublist : olm03
Inj Date : 06-OCT-2005 17:14 Inst ID : TRACEGC83
Operator : 2461 Spike Sublist : WaterMsd
Method : /chem/tracegc83.i/m051005cOLC03.b/olc03_clpest2_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 500.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
0.14			5310								
0.91			1693975								
1.40			7773								
1.51			34392								
1.88			8047								
2.20			693								
2.29			1296								
2.49			1700								
2.78			9888								
2.91			3932								
3.20			1051								
3.52			1466								
3.71			641614								
4.29	4.23	4.33	21354	1069850	Tetrachloro-m-xylene	0.019959	0.039918		99.8	30 - 150	
4.62			35151								
`9			3485								
			612								
3			11659								
5.64			3268								
5.93			1861								
6.29			7476								
6.61			1663								
6.76	6.69	6.79	89358	1903750	gamma-BHC (Lindane)	0.046938	0.093876	0.010000	93.9	56 - 123	
6.96			492695								
7.13			11954								
7.32			2763								
7.67			3059								
7.86	7.80	7.90	93297	2134550	Heptachlor	0.043708	0.087416	0.010000	87.4	40 - 131	
8.04			1414								
8.66	8.59	8.69	78151	1839200	Aldrin	0.042491	0.084983	0.010000	85.0	40 - 120	
9.03			2215								
9.22			7774								
9.64			9890								
9.78			6793								
9.97			14272								
10.14			8796								
10.28			4572996								

CompuChem Environmental Corporation

Lab Smp Id : 81130 Client Smp Id : ACSGWPWB26REMSD
Sample Type : MSD Sublist : olm03
Inj Date : 06-OCT-2005 17:14 Inst ID :
Operator : 2461 Spike Sublist : WaterMsd
Method : /chem/tracegc83.i/m051005cOLC03.b/olc03_clpest2_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 500.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
10.44		1526								
10.57		621								
10.93		1495								
11.38		803								
11.75		1660								
11.92	11.83 11.97	183428	1848950	Dieldrin	0.099207	0.198413	0.020000	99.2	52 - 126	
12.32		823								
12.67	12.58 12.72	149713	1510625	Endrin	0.099106	0.198212	0.020000	99.1	56 - 121	
12.82		520								
12.92		1500								
13.15		803								
13.27		2209								
13.53		2054								
14.05	13.96 14.10	129192	1522700	4,4'-DDT	0.084843	0.169687	0.020000	84.8	38 - 127	
14.62		2885								
14.99		307								
15.34		1226								
15.57		490								
15.97		414								
16.17		8487								
16.65		439								
17.02		289								
17.21		499								
17.61		1546								
17.80		2686								
18.11		6978								
18.34		14713								
18.66		3313								
18.84		3907								
19.05		7220								
19.39		708								
19.62	19.51 19.71	30617	1977350	Decachlorobiphenyl	0.015484	0.030968		77.4	30 - 150	
19.94		1810								
20.16		2847								
20.54		9472								
20.87		3003								
20.98		2343								

CompuChem Environmental Corporation

Smp Id : 81130 Client Smp Id : ACSGWPWB26REMSD
Sample Type : MSD Sublist : olm03
Inj Date : 06-OCT-2005 17:14 Inst ID :
Operator : 2461 Spike Sublist : WaterMsd
Method : /chem/tracegc83.i/m051005cOLC03.b/olc03_clpest2_1ulv2.m
Misc. Info : None

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 500.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
21.23		1775								
21.33		1997								
21.74		452								

5. Raw Florisil Data

- The chromatograms and data system report(s) shall be arranged in chronological order by Florisil cartridge performance check analyses.

ASSIGNED TO: J. GV

EXTRACTION WORKSHEET

Pesticide/PCB EPA CLP OLM 4.2

DATE PREPPED 8/3/2005

EMP. ID NUMBER 2295

657

1	FL01706 34076B1	FLORISIL TEST SAMPLE	1.0ML	0.5 MLs OF 4025 AND MIX A MED 3/90
2	↓ 2	FLORISIL TEST SAMPLE	1.0ML	ARE DILUTED TO 4.0ML IN HEXANE, BLOWN DOWN TO 0.5ML
3				BROUGHT BACK UP TO 2.0ML W/ HEXANE, THEN FLORISILED
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

4025 SOLUTION	57790
	AMT. 0.5ML
	LOT
MIXA-MED 3/90 SPIKE SOLUTION	57634
	AMT. 0.5ML
	LOT

FINAL VOLUME VERIFIED

SUPERVISOR REVIEWED

COPY

Lot # for EPA forms FL0634076B1

~~FL0634076B1~~ TAJ 8/9/05

ORIGINAL DOCUMENTS INCLUDED IN CSF- E1513-34485

SIGNATURE TAJ DATE 8/9/05

Rev. 7/24/03:dce

658

C[illegible]PUCHEM a division of Liberty Analytical Corp Instrument ID [illegible] / 85

GC EXTRACTABLES RUN LOG

COMPUCHEM LOGBOOK 4 N(4) 21

Sequence ID: 10508066

DATE 8/7/05

SHIFT/S(A)_____(B)_____

Amt. Inj. 2 µl (1 ul per column)

Method : 8081A 8082 8151A CLP Other_____

1	34	✓	8/7/05	PIBUKTON	57734	2.82	
2	35	✓	/ /	INDAMTV	57631		
3	36	✓	/ /	INDBMTV	57782		
4	37	✓	/ /	76573	7640		
5	38	✓	/ /	76728			
6	39	✓	/ /	1 29			
7	40	✓	/ /	764001			
8	41	✓	/ /	02			
9	42	✓	/ /	03			
10	43	✓	/ /	04			
11	44	✓	/ /	05			
12	45		/ /	Hexane	Smt		
13	46	✓	/ /	FL0170634076B1	Florosil Check		
14	47		/ /	Hexane	Smt		
15	48		/ /	FL0170634076B2	Florosil Check		
16	49		/ /	Hexane	Smt		
17	50		/ /	RPSTD	57492		
18	51		/ /	Hexane	Smt		
19	52		/ /				
20			/ /				
21			/ /				
22			/ /		TAJ	8/9/05	
23			/ /				
24			/ /				

SUPERVISOR APPROVAL TAJ

DATE 8/9/05

Hexane Lot No. CM871

The presence of the Chemist's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist together with the chemist's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

5/25/05:jad

COPY

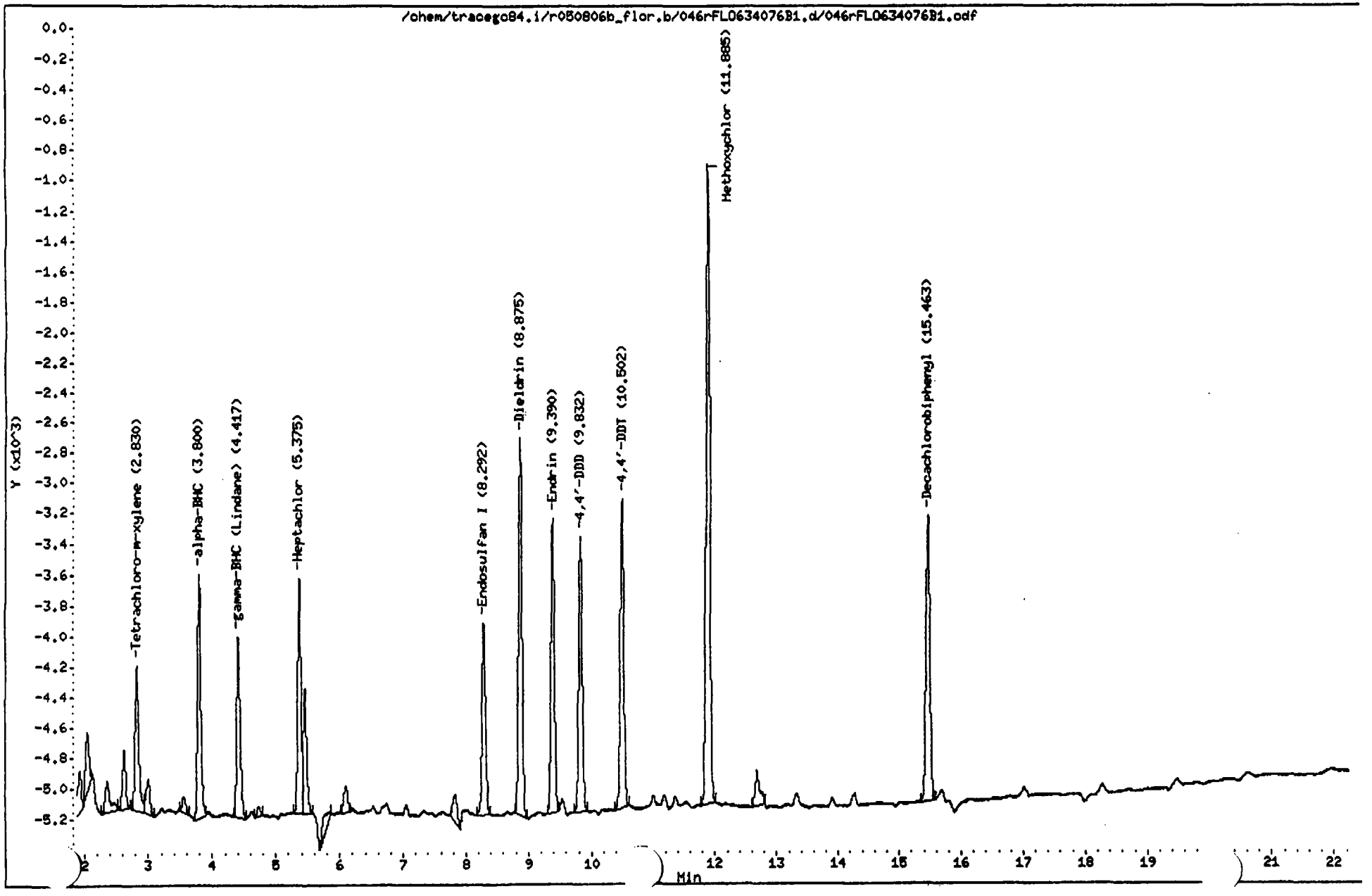
E15139

ORIGINAL DOCUMENTS INCLUDED IN CSF- 34485

Data File: /chem/tracego84.i/r050806b_flor.b/046rFL0634076B1.d
Date : 07-AUG-2005 15:00
Client ID: FL0634076B1
Sample Info: FL0634076B1
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracego84.i SIGNATURE TAJ DATE 8/9/05

Operator: 2512
Column diameter: 0.53



CompuChem Environmental Corporation

Lab Smp Id : FLO634076B1
Client Smp Id : FLO634076B1
Sample Type : FLORISIL
Sublist : florisil
Inj Date : 07-AUG-2005 15:00
Inst ID : TRACEGC84
Operator : 2512
Spike Sublist : FLORISIL
Method : /chem/tracegc84.i/r050806b_flor.b/2ulOLM04_clpestv6.m
Misc. Info : None

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED CRQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
0.76			15976								
0.89			59284								
1.09			3248								
1.24			1219								
1.94			988								
2.06			1567								
2.37			1140								
2.63			1481								
2.83	2.78	2.88	3738	345700	Tetrachloro-m-xylene	0.010813	0.010813	0.000000	110.0	80 - 120	
3.01			977								
3.56			382								
3.80	3.75	3.85	5673	529700	alpha-BHC	0.010708	0.011000	0.050000	110.0	80 - 120	
4.42	4.36	4.46	4472	487650	gamma-BHC (Lindane)	0.009168	0.009200	0.050000	92.0	80 - 120	
4.73			208								
5.38	5.32	5.42	5479	522400	Heptachlor	0.010486	0.010000	0.050000	100.0	80 - 120	
5.46			2801								
5.80			863								
6.10			747								
7.84			883								
8.29	8.22	8.36	4868	430950	Endosulfan I	0.011294	0.011000	0.050000	110.0	80 - 120	
8.88	8.80	8.94	9500	413000	Dieldrin	0.023000	0.023000	0.100000	115.0	80 - 120	
9.39	9.32	9.46	7267	340600	Endrin	0.021333	0.021000	0.100000	105.0	80 - 120	
9.83	9.76	9.90	6999	316325	4,4'-DDD	0.022123	0.022000	0.100000	110.0	80 - 120	
10.50	10.43	10.57	8042	359675	4,4'-DDT	0.022356	0.022000	0.100000	110.0	80 - 120	
11.88	11.81	11.95	17724	162980	Methoxychlor	0.108743	0.110000	0.500000	110.0	80 - 120	
12.68			1159								
15.46	15.36	15.56	8377	379950	Decachlorobiphenyl	0.022045	0.022000	0.000000	110.0	80 - 120	

CompuChem

RECOVERY REPORT

Client Name:
Client SDG: r050806b_flor
Sample Matrix: LIQUID
Fraction: PEST
Lab Smp Id: FLO634076B1
Client Smp ID: FLO634076B1
Level: LOW
Operator: 2512
Data Type: GC MULTI COMP
SampleType: FLORISIL
SpikeList File: FLORISIL.spk
Quant Type: ESTD
Sublist File: florisil.sub
Method File: /chem/tracegc84.i/r050806b_flor.b/2ulOLM04_clpestv6.m
Misc Info: None

	SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
	1 alpha-BHC	0.010	0.011	110.00	80-120
	4 gamma-BHC (Lindane	0.010	0.0092	92.00	80-120
	5 Heptachlor	0.010	0.010	100.00	80-120
	8 Endosulfan I	0.010	0.011	110.00	80-120
	9 Dieldrin	0.020	0.023	115.00	80-120
	11 Endrin	0.020	0.021	105.00	80-120
	13 4,4'-DDD	0.020	0.022	110.00	80-120
	15 4,4'-DDT	0.020	0.022	110.00	80-120
	16 Methoxychlor	0.10	0.11	110.00	80-120
$	29 Tetrachloro-m-xyle	0.010	0.011	110.00	80-120
$	30 Decachlorobiphenyl	0.020	0.022	110.00	80-120
	33 2,4,5-Trichloroph	0.50	0.0	*	0-5

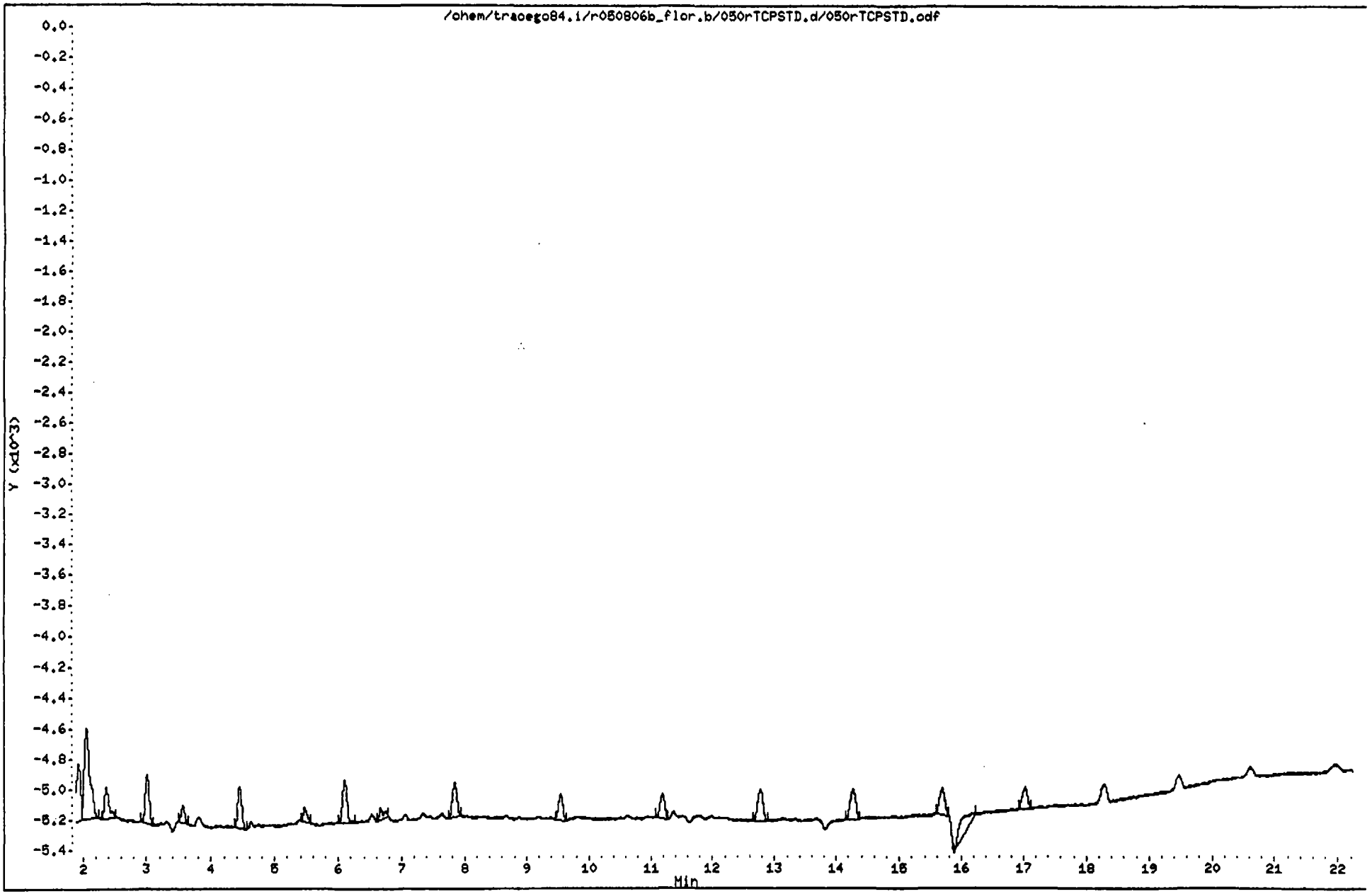
	SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$	29 Tetrachloro-m-xyle	0.20	0.011	110.00	30-150
$	30 Decachlorobiphenyl	0.20	0.022	110.00	30-150

Data File: /ohem/tracego84.i/r050806b_flor.b/050rTCPSTD.d
Date : 07-AUG-2005 16:41
Client ID: TCPSTD
Sample Info: TCPSTD
Volume Injected (uL): 1.0
Column phase: olpest

Instrument: tracego84.i

Operator: 2512
Column diameter: 0.53

COPY
ORIGINAL DOCUMENTS INCLUDED IN CSF-34485
SIGNATURE TAJ DATE 8/9/05



CompuChem Environmental Corporation

Lab Smp Id : TCPSTD Client Smp Id : TCPSTD
Sample Type : INITIAL CAL: Level 2 Sublist : tcp
Inj Date : 07-AUG-2005 16:41 Inst ID : TRACEGC84
Operator : 2512
Method : /chem/tracegc84.i/r050806b_flor.b/2ulOLM04_clpestv6.m
Misc. Info : None

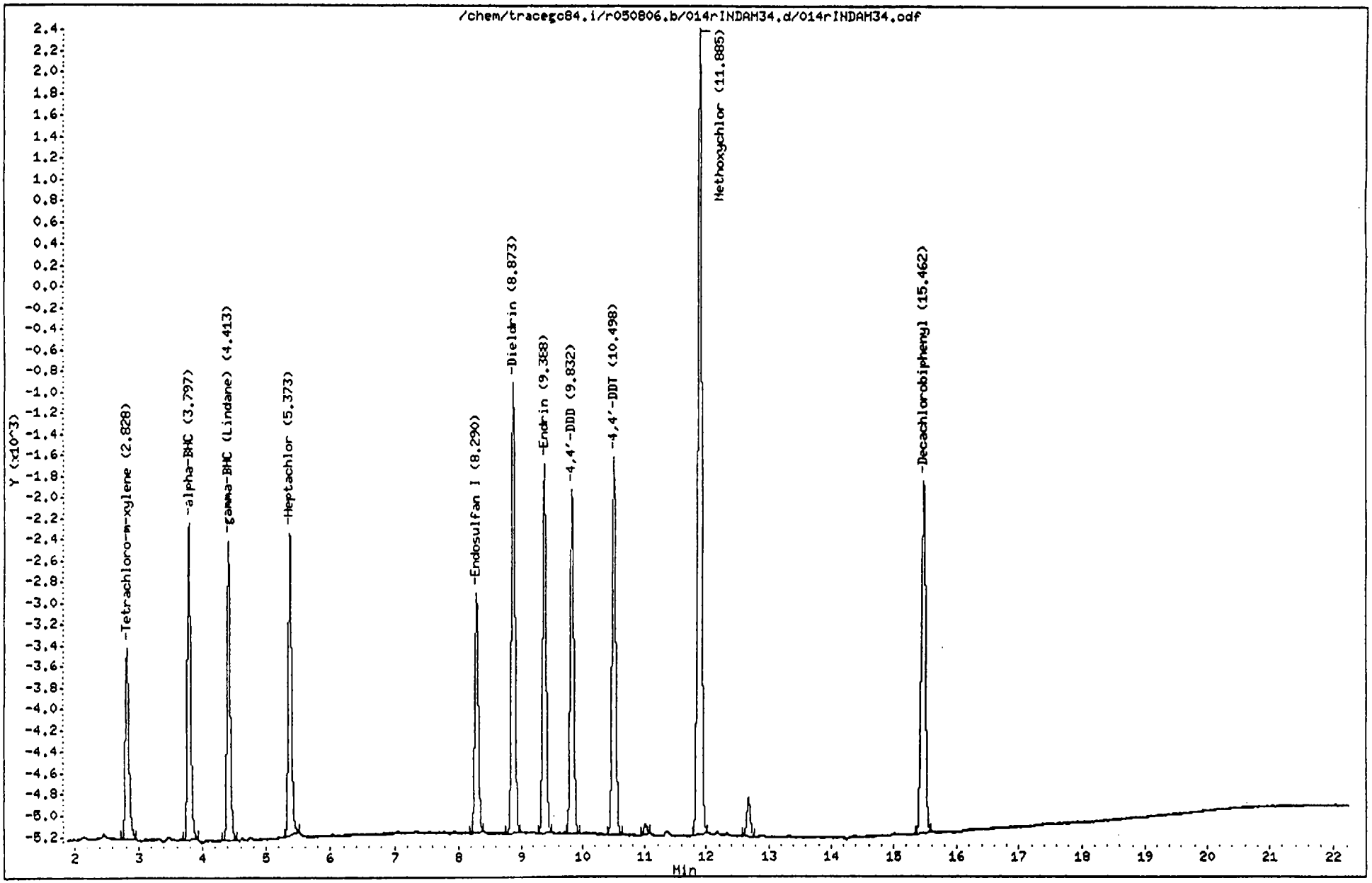
RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
0.76		51758					
1.09		565					
1.31		1726					
1.58	1.51 1.65	37902	37902	2,4,5-Trichlorophenol	1.000000	37902	
1.94		1678					
2.06		3723					
2.37		1051					
3.01		1367					
3.56		466					
4.45		1204					
5.47		407					
6.11		1416					
6.67		406					
7.84		1180					
9.55		867					
11.19		875					
12.77		1264					
14.27		1232					
15.68		1080					
18		1592					
)2		825					

Data File: /chem/tracego84.i/r050806.b/014rINDAM34.d
Date : 07-AUG-2005 01:36
Client ID: INDAM34
Sample Info: INDAM34
Volume Injected (uL): 1.0
Column phase: olpest

Instrument: tracego84.i

Operator: 2512
Column diameter: 0.53

COPY
ORIGINAL DOCUMENTS INCLUDED IN CSF: 34485
SIGNATURE TAJ DATE 8/9/05



CompuChem Environmental Corporation

Smp Id : INDAM34 Client Smp Id : INDAM34
Sample Type : INITIAL CAL: Level 2 Sublist : INDA
Inj Date : 07-AUG-2005 01:36 Inst ID : TRACEGC84
Operator : 2512
Method : /chem/tracegc84.i/r050806.b/2ulOLM04_clpestv6.m
Misc. Info : None

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
0.75			23682					
1.09			538					
2.83	2.78	2.88	6915	345700	Tetrachloro-m-xylene	0.020000	345700	
3.80	3.75	3.85	10594	529700	alpha-BHC	0.020000	529700	
4.41	4.36	4.46	9753	487650	gamma-BHC (Lindane)	0.020000	487650	
5.37	5.32	5.42	10448	522400	Heptachlor	0.020000	522400	
8.29	8.22	8.36	8619	430950	Endosulfan I	0.020000	430950	
8.87	8.80	8.94	16521	413000	Dieldrin	0.040000	413000	
9.39	9.32	9.46	13624	340600	Endrin	0.040000	340600	
9.83	9.76	9.90	12654	316325	4,4'-DDD	0.040000	316325	
10.50	10.43	10.57	14387	359675	4,4'-DDT	0.040000	359675	
11.01			385					
11.88	11.81	11.95	32596	162980	Methoxychlor	0.200000	162980	
12.68			1540					
15.46	15.36	15.56	15198	379950	Decachlorobiphenyl	0.040000	379950	

ACS-89
Data Validation Reports
LDC# 14146

Chlorinated Pesticides & PCBs

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: ACS-89

Collection Date: September 23 through September 26, 2005

LDC Report Date: October 27, 2005

Matrix: Water

Parameters: Chlorinated Pesticides & PCBs

Validation Level: EPA Level IV

Laboratory: CompuChem

Sample Delivery Group (SDG): 7829

Sample Identification

ACSGWPWA26
ACSGWPWA26RE
ACSGWPWDUP26
ACSGWPWDUP26RE
ACSGWPWB26
ACSGWPWB26RE
ACSGWPWT26
ACSGWPWT26RE
ACSGWPWC26
ACSGWPWC26RE
ACSGWPWD26
ACSGWPWD26RE
ACSGWPWB26MS
ACSGWPWB26MSD
ACSGWPWB26MSRE
ACSGWPWB26MSDRE

Introduction

This data review covers 16 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA Contract Laboratory Program Statement of Work OLC03.2 for Chlorinated Pesticides and PCBs.

The review follows the Remedial Design/Remedial Action PRP - Lead Project Quality Assurance Project Plan (November 2001, Rev. 0) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) as there are no current guidelines for the method stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified a P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section V.

Field duplicates are summarized in Section XIV.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

B Compound or analyte was positively detected in a sample and in an associated blank.

UB Compound or analyte is not detected at or above the indicated concentration due to blank contamination.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met with the following exceptions:

Sample	Compound	Total Days From Sample Collection Until Extraction	Required Holding Time (In Days) From Sample Collection Until Extraction	Flag	A or P
ACSGWPWB26RE ACSGWPWT26RE ACSGWPWC26RE ACSGWPWD26RE ACSGWPWB26MSRE ACSGWPWB26MSDRE	All TCL compounds	9	7	J (all detects) UJ (all non-detects)	A
ACSGWPWA26RE ACSGWPWDUP26RE	All TCL compounds	12	7	J (all detects) UJ (all non-detects)	A

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/ECD Instrument Performance Check

A Resolution check mixture was analyzed at the beginning of the initial calibration sequence on each GC column. The resolution between adjacent peaks of required compounds was greater than or equal to 60% .

Performance evaluation mixtures (PEM) were analyzed at the proper frequency. The resolution between adjacent peaks was 90% on both GC columns. The absolute retention times for the initial and continuing PEMs were within the calculated retention time windows based on the three-point initial calibration.

The individual 4,4'-DDT and Endrin breakdowns (%BD) were less than or equal to 20.0% and the combined breakdowns were less than or equal to 30.0% .

The relative percent difference (RPD) of amount in PEMs were within 25.0% QC limits.

III. Initial Calibration

Initial calibration sequence was followed as required.

Initial calibration of single and multicomponent compounds was performed for both columns at proper frequencies.

The retention time windows were established according to the method.

The percent relative standard deviations (%RSD) of calibration factors for selected single component compounds were within the 20.0% QC limits for selected compounds and were within the 25.0% QC limits for alpha-BHC and beta-BHC .

All required peaks for multicomponent compounds were present.

IV. Continuing Calibration

Continuing calibration sequence was followed as required. No more than 12 hours elapsed between continuing calibration analyses in an analytical sequence.

The retention times (RT) of all compounds in Individual Mix and multicomponent standards were within QC limits.

The relative percent differences (RPD) of amount in Individual Mix standards were within the 25.0% QC limits.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No chlorinated pesticide or PCB contaminants were found in the method blanks.

Instrument blank analyses were performed at the required frequencies. No chlorinated pesticide or PCB contaminants were found in the instrument blanks.

No field blanks were identified in this SDG.

VI. Surrogate Spikes

Surrogates were added to all samples, standards and blanks as required by the SOW. All surrogate recoveries (%R) were within QC limits of 30-150% .

The retention times for surrogates were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Laboratory Control Samples (LCS)

Although laboratory control samples were not required by the method, laboratory control samples were reported by the laboratory. Percent recoveries (%R) were within QC limits with the following exceptions:

LCS ID	Compound	%R (Limits)	Associated Samples	Flag	A or P
PMALCS	Heptachlor epoxide	2600 (50-150)	ACSGWPWA26 ACSGWPWDUP26 ACSGWPWB26 ACSGWPWT26 ACSGWPWC26 ACSGWPWD26 PBLKMA	J (all detects)	A

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Pesticide Cleanup Checks

a. Florisil Cartridge Check

Florisil cartridge checks were performed at the required frequency and all compounds were within the 80-120% recovery QC criteria.

b. GPC Calibration

GPC cleanup is not required for water samples and was not performed.

XI. Target Compound Identification

All target compound identifications were within validation criteria.

XII. Compound Quantitation and Reported CRQLs

All compound quantitation and reported CRQLs were within validation criteria.

XIII. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XIV. Field Duplicates

Samples ACSGWPWA26 and ACSGWPWDUP26 and samples ACSGWPWA26RE and ACSGWPWDUP26RE were identified as field duplicates. No chlorinated pesticides or PCBs were detected in any of the samples.

ACS-89
Chlorinated Pesticides & PCBs - Data Qualification Summary - SDG 7829

SDG	Sample	Compound	Flag	A or P	Reason
7829	ACSGWPWB26RE ACSGWPWT26RE ACSGWPWC26RE ACSGWPWD26RE ACSGWPWA26RE ACSGWPWDUP26RE	All TCL compounds	J (all detects) UJ (all non-detects)	A	Technical holding times
7829	ACSGWPWA26 ACSGWPWDUP26 ACSGWPWB26 ACSGWPWT26 ACSGWPWC26 ACSGWPWD26	Heptachlor epoxide	J (all detects)	A	Laboratory control samples (%R)

ACS-89
Chlorinated Pesticides & PCBs - Laboratory Blank Data Qualification Summary - SDG 7829

No Sample Data Qualified in this SDG

ACS-89
Chlorinated Pesticides & PCBs - Field Blank Data Qualification Summary - SDG 7829

No Sample Data Qualified in this SDG

1LCE
LOW CONCENTRATION WATER PESTICIDE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

ACSGWPWA26

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 782901 Date Received: 09/26/2005

Sample Volume: 1075(ML) Date Extracted: 09/28/2005

Concentrated Extract Volume: 2000(UL) Date Analyzed: 10/01/2005

Injection Volume: 1.0(UL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N Extraction: (Sepf/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

LMH103105

1LCE

LOW CONCENTRATION WATER PESTICIDE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

ACSGWPWB26

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 782903 Date Received: 09/27/2005

Sample Volume: 1100(ML) Date Extracted: 09/28/2005

Concentrated Extract Volume: 2000(UL) Date Analyzed: 10/01/2005

Injection Volume: 1.0(UL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N Extraction: (Sepf/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

MH 10/31/05

1LCE
LOW CONCENTRATION WATER PESTICIDE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

ACSGWPWC26

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 782905 Date Received: 09/27/2005

Sample Volume: 1100(ML) Date Extracted: 09/28/2005

Concentrated Extract Volume: 2000(UL) Date Analyzed: 10/01/2005

Injection Volume: 1.0(UL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N Extraction: (Sepf/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

LuH10305

1LCE

LOW CONCENTRATION WATER PESTICIDE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

ACSGWPWD26

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 782907 Date Received: 09/27/2005

Sample Volume: 1100(ML) Date Extracted: 09/28/2005

Concentrated Extract Volume: 2000(UL) Date Analyzed: 10/01/2005

Injection Volume: 1.0(UL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N Extraction: (Sepf/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

10/10/05

1LCE
LOW CONCENTRATION WATER PESTICIDE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

ACSGWPWDUP26

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 782902 Date Received: 09/26/2005

Sample Volume: 1050(ML) Date Extracted: 09/28/2005

Concentrated Extract Volume: 2000(UL) Date Analyzed: 10/01/2005

Injection Volume: 1.0(UL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N Extraction: (Sepf/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

LH10305

1LCE
LOW CONCENTRATION WATER PESTICIDE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

ACSGWPWT26

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 782904 Date Received: 09/27/2005

Sample Volume: 1100(ML) Date Extracted: 09/28/2005

Concentrated Extract Volume: 2000(UL) Date Analyzed: 10/01/2005

Injection Volume: 1.0(UL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N Extraction: (Sepf/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

10/3/05

1LCE

LOW CONCENTRATION WATER PESTICIDE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

ACSGWPWA26RE

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 782901R Date Received: 09/26/2005

Sample Volume: 500(ML) Date Extracted: 10/05/2005

Concentrated Extract Volume: 1000(UL) Date Analyzed: 10/06/2005

Injection Volume: 1.0(UL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N Extraction: (Sepf/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U UJ
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U ✓

MH10/7/05

1LCE
LOW CONCENTRATION WATER PESTICIDE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

ACSGWPWB26RE

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 782903R Date Received: 09/27/2005

Sample Volume: 500(ML) Date Extracted: 10/05/2005

Concentrated Extract Volume: 1000(UL) Date Analyzed: 10/06/2005

Injection Volume: 1.0(UL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N Extraction: (Sepf/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U uJ
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

14/10/05

1LCE

LOW CONCENTRATION WATER PESTICIDE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

ACSGWPWC26RE

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 782905R Date Received: 09/27/2005

Sample Volume: 500(ML) Date Extracted: 10/05/2005

Concentrated Extract Volume: 1000(UL) Date Analyzed: 10/06/2005

Injection Volume: 1.0(UL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N Extraction: (Sepf/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

MM 10/31/05

1LCE
LOW CONCENTRATION WATER PESTICIDE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

ACSGWPWD26RE

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 782907R Date Received: 09/27/2005

Sample Volume: 500(ML) Date Extracted: 10/05/2005

Concentrated Extract Volume: 1000(UL) Date Analyzed: 10/06/2005

Injection Volume: 1.0(UL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N Extraction: (Sepf/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U UJ
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

lwh 10/31/05

1LCE
LOW CONCENTRATION WATER PESTICIDE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

ACSGWPWDUP26RE

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 782902R Date Received: 09/26/2005

Sample Volume: 500(ML) Date Extracted: 10/05/2005

Concentrated Extract Volume: 1000(UL) Date Analyzed: 10/06/2005

Injection Volume: 1.0(UL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N Extraction: (Sepf/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U UJ
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U ✓

10/10/05

1LCE
LOW CONCENTRATION WATER PESTICIDE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

ACSGWPWT26RE

Lab Name: COMPUCHEM Contract: OLC03-REVS

Lab Code: LIBRTY Case No.: Client No.: SDG No.: 7829

Lab Sample ID: 782904R Date Received: 09/27/2005

Sample Volume: 500(ML) Date Extracted: 10/05/2005

Concentrated Extract Volume: 1000(UL) Date Analyzed: 10/06/2005

Injection Volume: 1.0(UL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N Extraction: (Sepf/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (UG/L)	Q
319-84-6	alpha-BHC	0.010	U uJ
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

10/10/05

LDC #: 14146A3 **VALIDATION COMPLETENESS WORKSHEET** Date: 10/27/05
SDG #: 7829 Level IV Page: 1 of 1
Laboratory: CompuChem Reviewer:
OLC03.2 2nd Reviewer: PR

METHOD: GC Chlorinated Pesticides/PCBs (EPA CLP SOW ~~OLM03.2~~)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	SW	Sampling dates: 9/23 — 9/26/05
II.	GC/ECD Instrument Performance Check	A	
III.	Initial calibration	A	%RSD ≤ 20 except alpha + Delta BHC ≤ 25%
IV.	Continuing calibration	A	%D ≤ 25
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates A	~~SW~~	
VIII.	Laboratory control samples	SW	LCS/~~RE~~
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	~~A~~	~~Florisil clean-up~~
Xb.	GPC Calibration	N	
XI.	Target compound identification	A	
XII.	Compound quantitation and reported CRQLs	A	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	ND	D = 1, 3 2, 4
XV.	Field blanks	N	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples:

1 1	ACSGWPWA26	11 1	ACSGWPWD26	21 1	PBLKMA	31	
2 2	ACSGWPWA26RE	12 2	ACSGWPWD26RE	22 2	PBLKAM	32	
3 1	ACSGWPWDUP26	13	ACSGWPWB26MS	23		33	
4 2	ACSGWPWDUP26RE	14	ACSGWPWB26MSD	24		34	
5 1	ACSGWPWB26	15	ACSGWPWB26MSRE			35	
6 2	ACSGWPWB26RE	16	ACSGWPWB26MSDRE			36	
7 1	ACSGWPWT26	17		27		37	
8 2	ACSGWPWT26RE	18		28		38	
9 1	ACSGWPWC26	19		29		39	
10 2	ACSGWPWC26RE	20		30		40	

MS/MSD Matrix interference

VALIDATION FINDINGS WORKSHEET

OLC03.2

METHOD: Pesticide/PCBs (EPA CLP SOW ~~OLM04.2~~)

A. alpha-BHC	I. Dieldrin	Q. Endrin ketone	Y. Aroclor-1242	GG.
B. beta-BHC	J. 4,4'-DDE	R. Endrin aldehyde	Z. Aroclor-1248	HH.
C. delta-BHC	K. Endrin	S. alpha-Chlordane	AA. Aroclor-1254	II.
D. gamma-BHC	L. Endosulfan II	T. gamma-Chlordane	BB. Aroclor-1260	JJ.
E. Heptachlor	M. 4,4'-DDD	U. Toxaphene	CC. DB 608	KK.
F. Aldrin	N. Endosulfan sulfate	V. Aroclor-1016	DD. DB 1701	LL.
G. Heptachlor epoxide	O. 4,4'-DDT	W. Aroclor-1221	EE.	MM.
H. Endosulfan I	P. Methoxychlor	X. Aroclor-1232	FF.	NN.

Notes:_____

LDC #: 14146A3
SDG #: 7829

VALIDATION FINDINGS WORKSHEET
Technical Holding Times

Reviewer: [illegible]
2nd Reviewer: [illegible]

Circled dates have exceeded the technical holding times.
N N/A Were all cooler temperatures within validation criteria?

METHOD : GC Pesticides/PCBs (EPA CLP SOW ~~OLM04.2~~ OLC03.2)

Sample ID	Matrix	Preserved	Sampling Date	Extraction date	Analysis date	Total # of Days	Qualifier
~~1~~, 6, 8,	water	NO	9/26/05	10/5/05	10/6/05	9	J/UJ/A
10, 12,	↓	↓	↓	↓	↓	↓	↓
15, 16	↓	↓	↓	↓	↓	↓	↓
2, 4	↓	↓	9/23/05	↓	↓	12	↓

TECHNICAL HOLDING TIME CRITERIA

Water: Extracted within 7 days, analyzed within 40 days.
Soil: Extracted within 14 days, analyzed within 40 days.

LDC #: 14146A3
SDG #: 7829

VALIDATION FINDINGS WORKSHEET
Laboratory Control Samples (not required)

Page: 1 of 1
Reviewer: [illegible]
2nd Reviewer: [illegible]

OLC03.2

METHOD: GC Pesticides/PCBs (EPA CLP SOW ~~OLM04.2~~)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as N/A.

Y N N/A Were a laboratory control samples (LCS) and laboratory control sample duplicate (LCSD) analyzed for each matrix in this SDG? _____

Y N N/A Was a laboratory control sample (LCS) analyzed for each matrix?

Y N N/A Were the percent recoveries (%R) (and relative percent differences (RPD) if duplicate analyses) for spiked compounds within acceptance limits?

Level IV/D Only

Y N N/A Were the percent recoveries (%R) and relative percent differences (RPD) recalculated for all spiked compounds?

Y N N/A Were the percent recoveries (%R) and relative percent differences (RPD) reported results within 10.0% of the recalculated results?

#	Date	LCS/LCSD ID	Compound	LCS %R (Limits)	LCSD %R (Limits)	RPD (Limits)	Associated Samples	Qualifications
		PMALCS	G	( )	2600 (50-150)	( )	1, 3, 5, 7, 9,	J/P det
				( )	( )	( )	11, PBLKMA	
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		

Letter Designation	Compound	Soil QC Limits		Water QC Limits	
		% Recovery	RPD	% Recovery	RPD
D	Gamma-BHC	46-127%	≤ 50%	56-123%	≤ 15%
E	Heptachlor	35-130%	≤ 31%	40-131%	≤ 20%
F	Aldrin	34-132%	≤ 43%	40-120%	≤ 22%
I	Dieldrin	31-134%	≤ 38%	52-126%	≤ 18%
K	Endrin	42-139%	≤ 45%	56-121%	≤ 21%
O	4,4'-DDT	23-134%	≤ 50%	38-127%	≤ 27%

LDC #: 14146A3
SDG #: 7829

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: [illegible]
2nd Reviewer: [illegible]

OLC03.2

METHOD: GC / HPLC

The calibration Factor (CF), average CF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

CF = A/C
average CF = sum of the CF/number of standards
%RSD = 100 * (S/X)

A = Area of compound,
C = Concentration of compound,
S = Standard deviation of the CF
X = Mean of the CFs

#	Standard ID	Calibration Date	Compound	Reported CF (std)	Recalculated CF (std)	Reported Average CF (initial)	Recalculated Average CF (initial)	Reported %RSD	Recalculated %RSD
1	OLC03.2 PEST ICAL	9/3/05 CLPEST	endosulfan I (0.02)	629050	629050	576550	576550	8.1	8.1
			methoxychlor (0.20)	222300	222300	207833	207833	10.4	10.4
2	↓	↓ CLP II	↓	546800	546800	494908	494908	10.6	10.6
				189110	189110	178313	178313	14.1	14.1
3		10/5/05 CLPEST	↓	1100200	1100200	1000850	1000850	8.6	8.6
				460690	460690	424239	424239	8.0	8.0
4		↓ CLP II	↓	1834350	1834350	1716525	1716525	12.9	12.9
				823570	823570	752552	752552	8.8	8.8

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 14146A3
SDG #: 7829

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Page: 1 of 1
Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: GC_____ HPLC_____

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. CF - CF)/ave. CF
CF = A/C

Where: ave. CF = initial calibration average CF
CF = continuing calibration CF
A = Area of compound
C = Concentration of compound

#	Standard ID	Calibration Date	Compound	Amt Average CF(ical)/ CCV Conc.	Reported Amt CF/Conc. CCV	Recalculated Amt CF/Conc. CCV	Reported %D	Recalculated %D
1	10/1/05	10/1/05 1509	endosulfan 1	0.020	0.021	0.021	5.0	5.0
	INDAMMH		methoxychlor	0.20	0.201	0.201	0.50	0.50
	CLP1							
2	CLP2	↓	↓	↓	0.020	0.020	0	0
					0.190	0.190	5.0	5.0
3	INDAMMH	10/6/05 2220	↓	0.020	0.019	0.019	5.0	5.0
	CLP1			0.200	0.177	0.177	11.5	11.5
4	CLP II		↓	↓	~~0.020~~ 0.019	0.019	5.0	5.0
					0.178	0.178	11.0	11.0

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

col

LDC #: 14146A3
SDG #: 14829

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification
OLC03.2

Page: 1 of 1
Reviewer:
2nd reviewer:

METHOD: GC Pesticides/PCBs (EPA CLP SOW ~~OLM04.2~~)

e percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: # 1

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
Tetrachloro-m-xylene	CLPEST	0.02	0.020243	101	101	0
Tetrachloro-m-xylene	CLPEST2	↓	0.019408	97	97	↓
Decachlorobiphenyl	↓	↓	0.017687	88	88	↓
Decachlorobiphenyl	↓	↓	~~0.014786~~ 0.016841	84	84	↓

Sample ID:

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
Tetrachloro-m-xylene						
Tetrachloro-m-xylene						
Decachlorobiphenyl						
Decachlorobiphenyl						

Sample ID:

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
Tetrachloro-m-xylene						
Tetrachloro-m-xylene						
Decachlorobiphenyl						
Decachlorobiphenyl						

Sample ID:

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
Tetrachloro-m-xylene						
Tetrachloro-m-xylene						
Decachlorobiphenyl						
Decachlorobiphenyl						

Notes:

LDC #: 14146A3
SDG #: 7829

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: GC Pesticides/PCBs (EPA CLP SOW ~~OLM04.2~~ OLM03.2)

The percent recoveries (%R) and Relative Percent difference (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100* (SSC-SC)/SA

Where: SSC = Spiked sample concentration; SA = Spike added; SC = Concentration

RPD = I MS - MSD I * 2/(MS + MSD)

MS = Matrix spike percent recovery; MSD = Matrix spike duplicate percent recovery

MS/MSD samples: 13 + 14

CLPEST 2

Compound	Spike Added (ug/L)		Sample Concentration (ug/L)	Spiked Sample Concentration (ug/L)		Matrix Spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD		MS	MSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalculated
Gamma-BHC	0.093	0.093	0.0	0.070	0.069	75	75	74	74	1	1
Heptachlor	↓	↓	0.0	0.069	0.070	74	74	75	75	1	1
Aldrin	↓	↓	0.0	0.070	0.068	75	75	73	73	3	3
Dieldrin	0.19	0.19	0.012	0.15	0.14	73	73	67	67	9	9
Endrin	↓	↓	0.0	0.16	0.15	84	84	79	79	6	6
4,4'-DDT	↓	↓	0.0072	0.13	0.13	65	65	65	65	0	0

Comments: Refer ot Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 14(1A3
SDG #: 7849

VALIDATION FINDI S WORKSHEET
Laboratory Control Sample/Laboratory Con..l Sample Duplicate Results Verification

Par 1 of 1
Review
2nd Reviewer:

METHOD: GC Pesticides/PCBs (EPA SW 846 Method 8081/8082)

The percent recoveries (%R) and Relative Percent difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100* (SSC-SC)/SA

Where: SSC = Spiked sample concentration
SA = Spike added
SC = Concentration

RPD = I LCS - LCSD I * 2/(LCS + LCSD)

LCS = Laboratory control sample percent recovery

LCSD = Laboratory control sample duplicate percent recovery

LCS/LCSD samples: PMA LCS

Compound	Spike Added (ug/L)		Sample Concentration (ug/L)	Spiked Sample Concentration ( )		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	-	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalculated
Gamma-BHC	0.10		0.086			86	86				
Heptachlor	↓		0.089			89	89				
~~Aldrin~~ Dieldrin	0.20		0.18			90	90				
Dieldrin 4,4'-DDE			0.20			100	100				
Endrin Endrin			0.20	→		100	100				
~~4,4-DDT~~ Endosulfan Sulfate			0.K			75	75				
gamma-chlordane	0.10		0.093			93	73	NA			

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 14146A3
SDG #: 7829

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: [illegible]
2nd reviewer: [illegible]

METHOD: GC Pesticides/PCBs (EPA CLP SOW OLM04.2)

Y	N	N/A	Were all reported results recalculated and verified for all level IV samples?
Y	N	N/A	Were all recalculated results for detected target compounds agree within 10.0% of the reported results?

Concentration = $\frac{(A_x)(V_t)(DF)(GPC)}{(CF)(V_o)(V_i)(\%S)}$

A_x	=	Area or height of the peak for the compound to be measured
CF	=	Calibration factor for the mid point concentration
V_o	=	Volume of or weight of sample extracted in milliliters (ml) or grams (G)
V_i	=	Volume of extract injected in microliters (ul)
V_t	=	Volume of the concentrated extract in microliters (ul)
DF	=	Dilution factor.
%S	=	Percent solids, applicable to soils and solids matrices only. (For water, %S=1)
GPC	*	2 (for soils), 1 (for waters)
Note	:	For multi-peak compounds such as Aroclors or Toxaphene, 3 to 5 major peaks were used for quantitation.

Example:

Sample I.D. _____ _____:

Conc. = (_____)
( )

= all ND

#	Sample ID	Compound	Reported Concentration ( )	Calculated Concentration ( )	Qualification

Note: _____

14146 A4/A6

CompuChem

a division of Liberty Analytical Corp.

11-Oct-05

AMY CLORE
MONTGOMERY WATSON HARZA
175 WEST JACKSON BOULEVARD
SUITE 1900
Chicago, IL 606042814

Subject:
Report of Data-Project: ACS/NPL SITE Workorder: 7829

Attn.: AMY CLORE

Enclosed are the results of analytical work performed in accordance with the referenced account number.

This report covers sample(s) appearing on the attached listing.

Thank you for selecting CompuChem for your sample analysis. If you should have questions or require additional analytical services, please contact your representative at 1-800-833-5097.

Sincerely,

CompuChem
A Division of Liberty Analytical

Attachment

TOTAL NUMBER
OF PAGES 119

501 Madison Avenue, Cary, NC 27513 Tel: 919-379-4100 Fax: 919-379-4050

CompuChem, a division of Liberty Analytical

Hsn	Client ID	Wordorder	Matrix	Account	Project	Report
782901	ACSGWPWA26	7829	W	MWH	ACS/NPL SITE	
782902	ACSGWPWDUP26	7829	W	MWH	ACS/NPL SITE	
782903	ACSGWPWB26	7829	W	MWH	ACS/NPL SITE	
782904	ACSGWPWT26	7829	W	MWH	ACS/NPL SITE	
782905	ACSGWPWC26	7829	W	MWH	ACS/NPL SITE	
782906	ACSGWPWTB26	7829	W	MWH	ACS/NPL SITE	10/4/2005
782907	ACSGWPWD26	7829	W	MWH	ACS/NPL SITE	

SAMPLE DATA PACKAGE

The sample data package shall include data for all analyses of all samples in one Sample Delivery Group (SDG), including field and analytical samples, reanalyses, blanks, spikes, duplicates, and laboratory control samples. The sample data package consists of the following:

A. Cover Page

B. Sample Data

C. Chain-of-Custody (CoC) Documentation

LAB CODE : LIBRTY

CONTRACT # : SW-846

CASE # : _____

SDG # : 7829

A. Cover Page -

Inorganic Analyses Data Package

The Cover Page includes laboratory information, the Case and SDG numbers, the client ID numbers in alphanumeric order showing the client ID numbers cross-referenced with Lab ID numbers, comments, and completion of the statement on the use of ICP background and interelement correction for the samples.

On separate pages, the laboratory will include any problems encountered; both technical and administrative, the corrective action taken, and the resolution. This information is included in the Inorganic Case Summary Narrative which follows the Cover Page.

SW846-METALS

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

SOW No.: SW846

EPA Sample No.	Lab Sample ID.
ACSGWPWA26	782901
ACSGWPWB26	782903
ACSGWPWB26D	81094
ACSGWPWB26D	81099
ACSGWPWB26D	81560
ACSGWPWB26S	81095
ACSGWPWB26S	81100
ACSGWPWB26S	81561
ACSGWPWB26SD	81096
ACSGWPWB26SD	81111
ACSGWPWB26SD	81562
ACSGWPWC26	782905
ACSGWPWD26	782907
ACSGWPWDUP26	782902
ACSGWPWT26	782904

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:

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

Signature: Susan W Bass Name: Susan W. Bass

Date: 10/10/05 Title: Senior Chemist

CompuChem
a Division of Liberty Analytical Corp.
501 Madison Avenue Cary, NC 27513

SDG NARRATIVE
SDG # 7829

The indicated Sample Delivery Group (SDG) consisting of six (6) water samples were received into the laboratory information management system (LIMS) on September 26 and 27, 2005 intact and in good condition with Chain of Custody (COC) Records in order, unless otherwise noted in any attachments or Quality Assurance Notices. The temperature of the samples upon receipt was 2.0 to 5.7°C. Sample ID's reported in this data package are noted by the receiving department on the COC if they differ from those listed by the samplers on the COC.

The samples were analyzed, in accordance with SW846 methodology for TAL metals and cyanide as requested.

INSTRUMENTAL QUALITY CONTROL:

All calibration verification solutions (ICV & CCV), blanks (ICB, & CCB), and interference check samples (ICSA & ICSAB) associated with this data were confirmed to be within allowable limits.

SAMPLE PREPARATION QUALITY CONTROL:

The sample preparation procedure verifications (LCSW & PBW) were found to be within acceptable ranges and all field samples were prepared and analyzed within the specified holding times.

MATRIX RELATED QUALITY CONTROL:

The sample matrix spike and matrix spike duplicate, CCN = 782903 ID ACSGWPWB26S and ACSGWPWB26SD were inside control limits for the requested analytes except selenium.

Control limits for matrix spikes recoveries are set at 75% to 125% of the analyte quantity added unless original sample concentrations exceed the true values of these "spikes" by a factor of four or more. In this case, affected analytes are not flagged even if recoveries are outside percentage recovery control limits.

The sample matrix duplicate, CCN = 782903 ID ACSGWPWB26D was inside control limits for the requested analytes.

CLP control limits for duplicate determinations are +/- 20% Relative Percent Difference (RPD) for concentrations greater than or equal to five times the CRDL in both the original and duplicate samples, and +/- the CRDL for concentrations less than five times the CRDL. The RPD is not calculated if both the original and duplicate values fall below the IDL.

A five-fold serial dilution of sample, CCN = 782903 ID ACSGWPWB26L was performed in accordance with requirements for ICP analysis.

The adjusted sample concentrations were inside control limits for the requested analytes.

Control limits for serial dilution are defined as a deviation less than or equal to 10% in the dilution adjusted concentrations from the original values for all analyte concentrations greater than fifty (50) times their respective Instrument Detection Limit (IDL) in the original sample.

The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package. Furthermore, I certify that the tests used in this report meet all requirements of the NELAC standards unless otherwise stated in the SDG narrative or QA notice.

Susan W Bass

Susan W. Bass
Senior Chemist
October 10, 2005

CompuChem
a Division of Liberty Analytical Corp.
501 Madison Avenue Cary, NC 27513

DATA REPORTING QUALIFIERS FOR INORGANICS

On Form I, under the column labeled "C" for concentration qualifier and "Q" for qualifier, each result is flagged with the specific data reporting qualifiers listed below, as appropriate. Up to five qualifiers may be reported on Form I for each analyte.

The C (concentration) qualifiers used are:

U: This flag indicates the analyte was analyzed for but not detected. This reported value was obtained from a reading that was less than the Instrument Detection Limit (IDL). The IDL will be adjusted to reflect any dilution and, for soils, the percent moisture.

B: This flag indicates the analyte was analyzed for and the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL).

The Q qualifiers used are:

E: This flag indicates an estimated value. This flag is used:

1. When the serial dilution (a five fold dilution for CLP and a five fold dilution for SW-846 method 6010B) results are not within 10%. The analyte concentration must be sufficiently high (minimally a factor of 50X above the IDL in the original sample).

N: This flag indicates the sample spike recovery is outside of control limits:

***:** This flag is used for duplicate analysis when the sample and the sample duplicate results are not within control limits.

The extensions: D, S, SD, L. A, added to the end of the client ID represent as follows:

D:	matrix duplicate
S:	matrix spike
SD:	matrix spike duplicate
L:	serial dilution
A:	post digestion spike

Method Codes:

P:	ICP PLASMA
CV:	MERCURY COLD VAPOR AA
CA:	MIDI-DISTILLATION SPECTROPHOTOMETRIC

B. Sample Data

1. Results
2. Quality Control Data
3. Quarterly Verification of Instrument Performance
4. Raw Data
5. Digestion and Distillation Logs

LAB CODE : LIBRTY CONTRACT # : SW-846

CASE # : _____ SDG # : 7829

1. Results

Sample results shall be arranged in packets with the Inorganic Analysis Data Sheet (Form I - IN). These sample packets shall be placed in increasing Client Sample ID number order, considering both letters and numbers, and shall include all the samples in the SDG.

SW846-METALS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ACSGWPWA26

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix (soil/water): WATER Lab Sample ID: 782901

Level (low/med): LOW Date Received: 09/26/05

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	13.0	U		P
7440-36-0	Antimony	4.4	B		P
7440-38-2	Arsenic	3.7	U		P
7440-39-3	Barium	113	B		P
7440-41-7	Beryllium	0.15	B		P
7440-43-9	Cadmium	0.50	U		P
7440-70-2	Calcium	80300			P
7440-47-3	Chromium	1.1	U		P
7440-48-4	Cobalt	1.1	U		P
7440-50-8	Copper	0.80	U		P
7439-89-6	Iron	1880			P
7439-92-1	Lead	1.6	U		P
7439-95-4	Magnesium	41000			P
7439-97-6	Mercury	0.10	U		CV
7439-96-5	Manganese	32.5			P
7440-02-0	Nickel	1.3	B		P
7440-09-7	Potassium	1630	B		P
7782-49-2	Selenium	4.5	U	N	P
7440-22-4	Silver	1.3	U		P
7440-23-5	Sodium	21400			P
7440-28-0	Thallium	4.0	U		P
7440-62-2	Vanadium	0.80	U		P
7440-66-6	Zinc	2.9	B		P
57-12-5	Cyanide	2.8	U		AS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

SW846-METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
ACSGWPWB26

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix (soil/water): WATER Lab Sample ID: 782903

Level (low/med): LOW Date Received: 09/27/05

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	13.0	U		P
7440-36-0	Antimony	3.7	U		P
7440-38-2	Arsenic	3.7	U		P
7440-39-3	Barium	112	B		P
7440-41-7	Beryllium	0.17	B		P
7440-43-9	Cadmium	0.50	U		P
7440-70-2	Calcium	82100			P
7440-47-3	Chromium	1.1	U		P
7440-48-4	Cobalt	1.1	U		P
7440-50-8	Copper	3.9	B		P
7439-89-6	Iron	3600			P
7439-92-1	Lead	3.2			P
7439-95-4	Magnesium	38600			P
7439-97-6	Mercury	0.10	U		CV
7439-96-5	Manganese	60.6			P
7440-02-0	Nickel	1.3	U		P
7440-09-7	Potassium	1280	B		P
7782-49-2	Selenium	4.5	U	N	P
7440-22-4	Silver	1.3	U		P
7440-23-5	Sodium	21300			P
7440-28-0	Thallium	4.0	U		P
7440-62-2	Vanadium	0.80	U		P
7440-66-6	Zinc	8.9	B		P
57-12-5	Cyanide	2.8	U		AS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

SW846-METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ACSGWPWC26

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix (soil/water): WATER Lab Sample ID: 782905

Level (low/med): LOW Date Received: 09/27/05

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	13.0	U		P
7440-36-0	Antimony	3.7	U		P
7440-38-2	Arsenic	3.7	U		P
7440-39-3	Barium	125	B		P
7440-41-7	Beryllium	0.18	B		P
7440-43-9	Cadmium	0.50	U		P
7440-70-2	Calcium	79600			P
7440-47-3	Chromium	1.1	U		P
7440-48-4	Cobalt	1.1	U		P
7440-50-8	Copper	0.80	U		P
7439-89-6	Iron	2160			P
7439-92-1	Lead	1.6	U		P
7439-95-4	Magnesium	43100			P
7439-97-6	Mercury	0.10	U		CV
7439-96-5	Manganese	30.1			P
7440-02-0	Nickel	1.8	B		P
7440-09-7	Potassium	1650	B		P
7782-49-2	Selenium	4.5	U	N	P
7440-22-4	Silver	1.3	U		P
7440-23-5	Sodium	17000			P
7440-28-0	Thallium	4.0	U		P
7440-62-2	Vanadium	0.80	U		P
7440-66-6	Zinc	1.3	U		P
57-12-5	Cyanide	2.8	U		AS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

SW846-METALS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
ACSGWPWD26

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix (soil/water): WATER Lab Sample ID: 782907

Level (low/med): LOW Date Received: 09/27/05

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	13.0	U		P
7440-36-0	Antimony	3.7	U		P
7440-38-2	Arsenic	3.7	U		P
7440-39-3	Barium	125	B		P
7440-41-7	Beryllium	0.20	B		P
7440-43-9	Cadmium	0.50	U		P
7440-70-2	Calcium	84900			P
7440-47-3	Chromium	1.1	U		P
7440-48-4	Cobalt	1.1	U		P
7440-50-8	Copper	2.2	B		P
7439-89-6	Iron	1700			P
7439-92-1	Lead	1.8	B		P
7439-95-4	Magnesium	44000			P
7439-97-6	Mercury	0.10	U		CV
7439-96-5	Manganese	28.7			P
7440-02-0	Nickel	1.3	U		P
7440-09-7	Potassium	1670	B		P
7782-49-2	Selenium	4.5	U	N	P
7440-22-4	Silver	1.3	U		P
7440-23-5	Sodium	18300			P
7440-28-0	Thallium	4.0	U		P
7440-62-2	Vanadium	0.80	U		P
7440-66-6	Zinc	10.0	B		P
57-12-5	Cyanide	2.8	U		AS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

SW846-METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ACSGWPWDUP26

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix (soil/water): WATER Lab Sample ID: 782902

Level (low/med): LOW Date Received: 09/26/05

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	13.0	U		P
7440-36-0	Antimony	3.7	U		P
7440-38-2	Arsenic	3.7	U		P
7440-39-3	Barium	109	B		P
7440-41-7	Beryllium	0.17	B		P
7440-43-9	Cadmium	0.50	U		P
7440-70-2	Calcium	77900			P
7440-47-3	Chromium	1.1	U		P
7440-48-4	Cobalt	1.1	U		P
7440-50-8	Copper	0.80	U		P
7439-89-6	Iron	1810			P
7439-92-1	Lead	1.6	U		P
7439-95-4	Magnesium	39500			P
7439-97-6	Mercury	0.10	U		CV
7439-96-5	Manganese	31.4			P
7440-02-0	Nickel	1.3	U		P
7440-09-7	Potassium	1590	B		P
7782-49-2	Selenium	4.5	U	N	P
7440-22-4	Silver	1.3	U		P
7440-23-5	Sodium	20900			P
7440-28-0	Thallium	4.0	U		P
7440-62-2	Vanadium	0.80	U		P
7440-66-6	Zinc	2.9	B		P
57-12-5	Cyanide	2.8	U		AS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

SW846-METALS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ACSGWPWT26

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix (soil/water): WATER Lab Sample ID: 782904

Level (low/med): LOW Date Received: 09/27/05

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	13.0	U		P
7440-36-0	Antimony	3.7	B		P
7440-38-2	Arsenic	3.7	U		P
7440-39-3	Barium	127	B		P
7440-41-7	Beryllium	0.22	B		P
7440-43-9	Cadmium	0.50	U		P
7440-70-2	Calcium	85800			P
7440-47-3	Chromium	1.1	U		P
7440-48-4	Cobalt	1.1	U		P
7440-50-8	Copper	0.80	U		P
7439-89-6	Iron	2180			P
7439-92-1	Lead	1.6	U		P
7439-95-4	Magnesium	45500			P
7439-97-6	Mercury	0.10	U		CV
7439-96-5	Manganese	32.2			P
7440-02-0	Nickel	1.3	U		P
7440-09-7	Potassium	1770	B		P
7782-49-2	Selenium	4.5	U	N	P
7440-22-4	Silver	1.3	U		P
7440-23-5	Sodium	19000			P
7440-28-0	Thallium	4.0	U		P
7440-62-2	Vanadium	0.80	U		P
7440-66-6	Zinc	21.8			P
57-12-5	Cyanide	2.8	U		AS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

2. Quality Control Data

a. Initial and Continuing Calibration Verification
[Form II (Part 1) - IN]

b. CRDL Standard for AA (if applicable) and ICP
[Form II (Part 2) - IN]

c. Blanks
[Form III - IN]

d. ICP Interference Check Sample
[Form IV - IN]

e. Spike Sample Recovery
[Form V (Part 1) - IN]

f. Post Digest Spike Sample Recovery
[Form V (Part 2) - IN]

g. Duplicates
[Form VI - IN]

h. Laboratory Control Sample
[Form VII - IN]

i. Standard Addition Results (if applicable)
[Form VIII - IN]

j. ICP Serial Dilutions
[Form IX - IN]

k. Preparation Log
[Form XIII - IN]

l. Analysis Run Log
[Form XIV - IN]

SW846-METALS

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Initial Calibration Source: EPA

Continuing Calibration Source: HIPUR

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum	2482.0	2478.37	99.9	50000.0	50097.72	100.2	49960.71	99.9	P
Antimony	992.0	1011.71	102.0	1000.0	1025.34	102.5	1030.63	103.1	P
Arsenic	996.0	957.08	96.1	1000.0	983.06	98.3	992.42	99.2	P
Barium	502.0	471.60	93.9	1000.0	957.06	95.7	945.53	94.6	P
Beryllium	493.0	487.86	99.0	1000.0	999.46	99.9	997.02	99.7	P
Cadmium	494.0	488.09	98.8	1000.0	987.62	98.8	1013.04	101.3	P
Calcium	10180.0	10350.60	101.7	50000.0	51641.62	103.3	51509.25	103.0	P
Chromium	490.0	483.28	98.6	1000.0	984.74	98.5	981.49	98.1	P
Cobalt	496.0	485.24	97.8	1000.0	973.22	97.3	984.38	98.4	P
Copper	490.0	489.00	99.8	1000.0	983.21	98.3	994.50	99.4	P
Iron	5107.0	5156.85	101.0	5000.0	4944.79	98.9	4969.22	99.4	
Lead	996.0	994.35	99.8	1000.0	981.20	98.1	998.88	99.9	
Magnesium	6003.0	6035.56	100.5	50000.0	49777.98	99.6	49764.57	99.5	P
Mercury	4.1	3.98	97.1	5.0	4.95	99.0	5.02	100.4	CV
Manganese	495.0	486.06	98.2	1000.0	982.43	98.2	985.88	98.6	P
Nickel	492.0	485.56	98.7	1000.0	978.11	97.8	1001.44	100.1	P
Potassium	10008.0	9341.67	93.3	50000.0	50813.95	101.6	51549.47	103.1	P
Selenium	1005.0	990.03	98.5	1000.0	984.82	98.5	1003.86	100.4	P
Silver	495.0	492.36	99.5	100.0	100.03	100.0	100.10	100.1	P
Sodium	10039.0	9682.12	96.4	50000.0	50026.16	100.1	51086.14	102.2	P
Thallium	1027.0	990.85	96.5	1000.0	934.90	93.5	954.98	95.5	P
Vanadium	501.0	484.48	96.7	1000.0	972.60	97.3	961.50	96.2	P
Zinc	1000.0	983.31	98.3	1000.0	973.65	97.4	989.21	98.9	P
Cyanide	99.0	99.23	100.2	200.0	204.72	102.4	205.65	102.8	AS

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

SW846-METALS

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Initial Calibration Source: EPA

Continuing Calibration Source: HIPUR

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum				50000.0	49291.17	98.6			P
Antimony				1000.0	1012.82	101.3			P
Arsenic				1000.0	983.45	98.3			P
Barium				1000.0	925.51	92.6			P
Beryllium				1000.0	982.11	98.2			P
Cadmium				1000.0	1002.38	100.2			P
Calcium				50000.0	50840.80	101.7			P
Chromium				1000.0	969.85	97.0			P
Cobalt				1000.0	970.49	97.0			P
Copper				1000.0	991.59	99.2			P
Iron				5000.0	4903.30	98.1			P
Lead				1000.0	994.18	99.4			P
Magnesium				50000.0	49139.18	98.3			P
Mercury				5.0	4.97	99.4	5.04	100.8	CV
Manganese				1000.0	973.98	97.4			P
Nickel				1000.0	987.46	98.7			P
Potassium				50000.0	51020.52	102.0			P
Selenium				1000.0	995.86	99.6			P
Silver				100.0	99.69	99.7			P
Sodium				50000.0	50662.17	101.3			P
Thallium				1000.0	948.82	94.9			P
Vanadium				1000.0	947.82	94.8			P
Zinc				1000.0	977.49	97.7			P
Cyanide				200.0	215.67	107.8	214.73	107.4	AS

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

SW846-METALS

2B-IN

CRDL STANDARD FOR AA AND ICP

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

AA CRDL Standard Source: HIPUR

ICP CRDL Standard Source: HIPUR

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
				Initial			Final	
	True	Found	%R	True	Found	%R	Found	%R
Aluminum				100.0	108.55	108.6		
Antimony				10.0	10.81	108.1		
Arsenic				10.0	10.20	102.0		
Barium				10.0	9.43	94.3		
Beryllium				5.0	5.30	106.0		
Cadmium				5.0	5.48	109.6		
Calcium				1000.0	1067.79	106.8		
Chromium				5.0	5.47	109.4		
Cobalt				5.0	5.13	102.6		
Copper				5.0	4.48	89.6		
Iron				100.0	103.69	103.7		
Lead				3.0	4.33	144.3		
Magnesium				1000.0	1184.08	118.4		
Mercury	0.2	0.22	110.0					
Manganese				10.0	10.39	103.9		
Nickel				5.0	6.00	120.0		
Potassium				1000.0	777.73	77.8		
Selenium				5.0	5.35	107.0		
Silver				5.0	5.36	107.2		
Sodium				2000.0	1958.03	97.9		
Thallium				10.0	10.10	101.0		
Vanadium				20.0	19.75	98.8		
Zinc				20.0	21.21	106.0		

Control Limits: no limits have been established by EPA at this time

SW846-METALS

3

BLANKS

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Preparation Blank Matrix (soil/water): 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	Preparation Blank	C	M
Aluminum	13.0	U	13.0	U	17.0	B	24.2	B	13.000	U	P
Antimony	3.7	U	3.7	U	3.7	U	3.7	U	3.700	U	P
Arsenic	3.7	U	3.7	U	3.7	U	3.7	U	3.700	U	P
Barium	0.5	B	0.5	B	0.7	B	0.8	B	0.726	B	P
Beryllium	0.1	U	0.1	U	0.4	B	0.5	B	0.177	B	P
Cadmium	0.5	U	0.5	U	0.5	U	0.5	U	0.500	U	P
Calcium	60.5	U	60.5	U	119.0	B	125.4	B	60.500	U	P
Chromium	1.1	U	1.1	U	1.1	U	1.1	U	1.177	B	P
Cobalt	1.1	U	1.1	U	1.1	U	1.1	U	1.100	U	P
Copper	0.8	U	0.8	U	0.8	U	0.8	U	-1.077	B	P
Iron	28.0	U	28.0	U	28.0	U	28.0	U	28.435	B	P
Lead	1.6	U	1.6	U	1.6	U	1.7	B	1.600	U	P
Magnesium	172.5	B	170.3	B	181.0	B	187.1	B	175.901	B	P
Mercury	0.100	U	0.100	U	0.100	U	0.100	U	0.100	U	CV
Manganese	0.3	U	0.3	U	0.3	B	0.4	B	0.496	B	P
Nickel	1.3	U	1.3	U	1.3	U	1.3	U	1.300	U	P
Potassium	12.8	U	12.8	U	12.8	U	12.8	U	12.800	U	P
Selenium	4.5	U	4.5	U	4.5	U	4.5	U	4.500	U	P
Silver	1.3	U	1.3	U	1.3	U	1.3	U	1.300	U	P
Sodium	237.0	U	237.0	U	237.0	U	237.0	U	237.000	U	P
Thallium	4.0	U	4.0	U	4.2	B	4.0	U	4.000	U	P
Vanadium	0.8	U	0.8	U	0.8	U	0.8	U	0.800	U	P
Zinc	1.3	U	1.3	U	2.5	B	2.3	B	2.900	B	P
Cyanide	2.8	U	2.8	U	2.8	U	2.8	U	2.800	U	AS

SW846-METALS

3

BLANKS

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Preparation Blank Matrix (soil/water): 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	Preparation Blank	C	M
Mercury			0.100	U							CV
Cyanide			2.8	U							AS

SW846-METALS

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: COMPUCHEM Contract: _____

Lab Code: LIBRTY Case No.: _____ SAS No.: _____ SDG No.: 7829

ICP ID Number: P4 ICS Source: EPA

Concentration Units: ug/L

Analyte	True		Initial Found			Final Found		
	Sol.A	Sol.AB	Sol.A	Sol.AB	%R	Sol.A	Sol.AB	%R
Aluminum	243900	248400	249000	251000	101.0			
Antimony	0	585	4.6	613	104.8			
Arsenic	0	97	4.0	97.0	100.0			
Barium	2	475	2.6	477	100.4			
Beryllium	0	482	0.34	484	100.4			
Cadmium	0	916	-1.5	938	102.4			
Calcium	234100	234300	247000	249000	106.3			
Chromium	36	506	38.8	510	100.8			
Cobalt	3	455	3.4	466	102.4			
Copper	15	537	14.2	492	91.6			
Iron	94900	95100	101000	101000	106.2			
Lead	5	51	5.5	55.4	108.6			
Magnesium	248800	254100	259000	258000	101.5			
Manganese	19	483	18.9	502	103.9			
Nickel	10	930	12.7	958	103.0			
Potassium	0	0	4.8	7.0				
Selenium	0	51	-0.94	43.7	85.7			
Silver	0	210	0.42	196	93.3			
Sodium	0	0	628	501				
Thallium	0	96	-10.1	81.1	84.5			
Vanadium	1	481	2.4	482	100.2			
Zinc	39	975	25.8	944	96.8			

SW846-METALS

5A

SPIKE SAMPLE RECOVERY

SAMPLE NO.

ACSGWPWB26S

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0

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

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum	75 - 125	1995.9150		13.0000	U	2000.00	99.8		P
Antimony	75 - 125	503.2588		3.7000	U	500.00	100.7		P
Arsenic	75 - 125	35.3690		3.7000	U	40.00	88.4		P
Barium	75 - 125	2058.7220		112.2367	B	2000.00	97.3		P
Beryllium	75 - 125	51.2814		0.1663	B	50.00	102.2		P
Cadmium	75 - 125	50.1967		0.5000	U	50.00	100.4		P
Chromium	75 - 125	197.6125		1.1000	U	200.00	98.8		P
Cobalt	75 - 125	487.9740		1.1000	U	500.00	97.6		P
Copper	75 - 125	248.7781		3.9028	B	250.00	98.0		
Iron	75 - 125	4721.9840		3596.4680		1000.00	112.6		P
Lead	75 - 125	21.5267		3.1869		20.00	91.7		P
Mercury	75 - 125	1.0920		0.1000	U	1.00	109.2		CV
Manganese	75 - 125	559.0458		60.5904		500.00	99.7		P
Nickel	75 - 125	498.1511		1.3000	U	500.00	99.6		P
Selenium	75 - 125	6.9965		4.5000	U	10.00	70.0	N	P
Silver	75 - 125	47.6458		1.3000	U	50.00	95.3		P
Thallium	75 - 125	43.6397		4.0000	U	50.00	87.3		P
Vanadium	75 - 125	492.5733		0.8000	U	500.00	98.5		P
Zinc	75 - 125	498.1256		8.9240	B	500.00	97.8		P
Cyanide	75 - 125	108.0258		2.8000	U	100.00	108.0		AS

Comments:

SW846-METALS

5A

SPIKE SAMPLE RECOVERY

SAMPLE NO.

ACSGWPWB26SD

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0

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

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum	75 - 125	1995.1490		13.0000	U	2000.00	99.8		P
Antimony	75 - 125	498.1189		3.7000	U	500.00	99.6		P
Arsenic	75 - 125	37.2907		3.7000	U	40.00	93.2		P
Barium	75 - 125	2036.2080		112.2367	B	2000.00	96.2		P
Beryllium	75 - 125	51.4136		0.1663	B	50.00	102.5		P
Cadmium	75 - 125	50.0356		0.5000	U	50.00	100.1		P
Chromium	75 - 125	198.9367		1.1000	U	200.00	99.5		P
Cobalt	75 - 125	487.1926		1.1000	U	500.00	97.4		P
Copper	75 - 125	249.1647		3.9028	B	250.00	98.1		P
Iron		4657.5160		3596.4680		1000.00	106.1		P
Lead	75 - 125	22.3072		3.1869		20.00	95.6		P
Mercury	75 - 125	1.0910		0.1000	U	1.00	109.1		CV
Manganese	75 - 125	558.5549		60.5904		500.00	99.6		P
Nickel	75 - 125	500.3489		1.3000	U	500.00	100.1		P
Selenium	75 - 125	7.7784		4.5000	U	10.00	77.8		P
Silver	75 - 125	48.1484		1.3000	U	50.00	96.3		P
Thallium	75 - 125	40.3731		4.0000	U	50.00	80.7		P
Vanadium	75 - 125	494.3771		0.8000	U	500.00	98.9		P
Zinc	75 - 125	499.6702		8.9240	B	500.00	98.1		P
Cyanide	75 - 125	105.6643		2.8000	U	100.00	105.7		AS

Comments:

SW846-METALS

5B

POST DIGEST SPIKE SAMPLE RECOVERY

SAMPLE NO.

ACSGWPWB26A

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix (soil/water): WATER Level (low/med): LOW

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added(SA)	%R	Q	M
Selenium		8.80		4.50	U	10.0	88.0		P

Comments:

SW846-METALS

6

DUPLICATES

SAMPLE NO.

ACSGWPWB26D

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

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

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		13.0000	U	13.0000	U			P
Antimony		3.7000	U	3.7000	U			P
Arsenic		3.7000	U	3.7000	U			P
Barium		112.2367	B	113.1683	B	0.8		P
Beryllium		0.1663	B	0.1575	B	5.4		P
Cadmium		0.5000	U	0.5000	U			P
Calcium		82117.7100		83805.9500		2.0		P
Chromium		1.1000	U	1.1000	U			P
Cobalt		1.1000	U	1.1000	U			P
Copper		3.9028	B	4.7129	B	18.8		P
Iron		3596.4680		3659.5760		1.7		P
Lead	3.0	3.1869		3.2613		2.3		P
Magnesium		38570.6900		38913.3400		0.9		P
Mercury		0.1000	U	0.1000	U			CV
Manganese		60.5904		60.8735		0.5		P
Nickel		1.3000	U	1.3000	U			P
Potassium		1282.8460	B	1288.7260	B	0.5		P
Selenium		4.5000	U	4.5000	U			P
Silver		1.3000	U	1.3000	U			P
Sodium	5000.0	21347.6200		21609.6900		1.2		P
Thallium		4.0000	U	4.0000	U			P
Vanadium		0.8000	U	0.8000	U			P
Zinc		8.9240	B	9.1937	B	3.0		P
Cyanide		2.8000	U	2.8000	U			AS

SW846-METALS

7

LABORATORY CONTROL SAMPLE

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Solid LCS Source:

Aqueous LCS Source: HIPUR

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits	%R
Aluminum	20000.0	19761.90	98.8					
Antimony	6000.0	6030.10	100.5					
Arsenic	1000.0	964.48	96.4					
Barium	20000.0	19769.36	98.8					
Beryllium	500.0	508.54	101.7					
Cadmium	500.0	497.42	99.5					
Calcium	50000.0	51643.82	103.3					
Chromium	1000.0	992.07	99.2					
Cobalt	5000.0	4824.63	96.5					
Copper	2500.0	2435.76	97.4					
Iron	10000.0	10071.45	100.7					
Lead	300.0	293.07	97.7					
Magnesium	50000.0	48923.86	97.8					
Mercury	3.0	3.21	107.0					
Manganese	1500.0	1473.57	98.2					
Nickel	4000.0	3955.77	98.9					
Potassium	50000.0	47204.48	94.4					
Selenium	500.0	469.03	93.8					
Silver	1000.0	962.59	96.3					
Sodium	50000.0	49723.53	99.4					
Thallium	1000.0	938.36	93.8					
Vanadium	5000.0	4901.88	98.0					
Zinc	2000.0	1952.37	97.6					
Cyanide	99.0	106.70	107.8					

9

ICP SERIAL DILUTIONS

SAMPLE NO.

ACSGWPWB26L

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix (soil/water): WATER Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	13.00	U	65.00	U			P
Antimony	3.70	U	18.50	U			P
Arsenic	3.70	U	18.50	U			P
Barium	112.24	B	118.22	B	5.3		P
Beryllium	0.17	B	1.48	B	770.6		P
Cadmium	0.50	U	2.50	U			P
Calcium	82117.71		89414.65		8.9		P
Chromium	1.10	U	5.50	U			P
Cobalt	1.10	U	5.50	U			P
Copper	3.90	B	4.00	U	100.0		P
Iron	3596.47		3848.35		7.0		P
Lead	3.19		10.69	B	235.1		P
Magnesium	38570.69		42426.76		10.0		P
Manganese	60.59		66.05		9.0		P
Nickel	1.30	U	6.50	U			P
Potassium	1282.85	B	1236.59	B	3.6		P
Selenium	4.50	U	22.50	U			P
Silver	1.30	U	6.50	U			P
Sodium	21347.62		23257.91	B	8.9		P
Thallium	4.00	U	20.00	U			P
Vanadium	0.80	U	4.00	U			P
Zinc	8.92	B	12.07	B	35.3		P

SW846-METALS

13

PREPARATION LOG

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Method: P

EPA Sample No.	Preparation Date		Volume (mL)
ACSGWPWA26	10/07/05		50.0
ACSGWPWB26	10/07/05		50.0
ACSGWPWB26D	10/07/05		50.0
ACSGWPWB26S	10/07/05		50.0
ACSGWPWB26SD	10/07/05		50.0
ACSGWPWC26	10/07/05		50.0
ACSGWPWD26	10/07/05		50.0
ACSGWPWDUP26	10/07/05		50.0
ACSGWPWT26	10/07/05		50.0
LCSW	10/07/05		50.0
PBW	10/07/05		50.0

13

PREPARATION LOG

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Method: CV

EPA Sample No.	Preparation Date		Volume (mL)
ACSGWPWA26	09/29/05		100.0
ACSGWPWB26	09/29/05		100.0
ACSGWPWB26D	09/29/05		100.0
ACSGWPWB26S	09/29/05		100.0
ACSGWPWB26SD	09/29/05		100.0
ACSGWPWC26	09/29/05		100.0
ACSGWPWD26	09/29/05		100.0
ACSGWPWDUP26	09/29/05		100.0
ACSGWPWT26	09/29/05		100.0
LCSW	09/29/05		100.0
PBW	09/29/05		100.0

SW846-METALS

13

PREPARATION LOG

Lab Name: COMPUCHEM Contract: _____

Lab Code: LIBRTY Case No.: _____ SAS No.: _____ SDG No.: 7829

Method: CA

EPA Sample No.	Preparation Date		Volume (mL)
ACSGWPWA26	10/04/05		50.0
ACSGWPWB26	10/04/05		50.0
ACSGWPWB26D	10/04/05		50.0
ACSGWPWB26S	10/04/05		50.0
ACSGWPWB26SD	10/04/05		50.0
ACSGWPWC26	10/04/05		50.0
ACSGWPWD26	10/04/05		50.0
ACSGWPWDUP26	10/04/05		50.0
ACSGWPWT26	10/04/05		50.0
LCSW	10/04/05		50.0
PBW	10/04/05		50.0

SW846-METALS

14

ANALYSIS RUN LOG

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Instrument ID Number: P4 Method: P

Start Date: 10/08/05 End Date: 10/08/05

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN	
S0	1.00	1116		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
S	1.00	1123							X		X		X		X					X		X	X		X		X	
S	1.00	1130		X						X				X		X												
S	1.00	1135				X	X	X				X					X								X			
S	1.00	1141																			X			X				
S	1.00	1145			X																							
ICV	1.00	1151		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZ	1.00	1158																										
ICB	1.00	1205		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZ	1.00	1212																										
ICSA	1.00	1219		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICSAB	1.00	1226		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV	1.00	1233		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB	1.00	1240		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
LRS	1.00	1250		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
PBW	1.00	1259		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
LCSW	1.00	1307		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ACSGWPWB26	1.00	1314		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ACSGWPWB26D	1.00	1321		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ACSGWPWB26S	1.00	1328		X	X	X	X	X	X		X	X	X	X	X		X			X		X	X		X	X	X	
ACSGWPWB26SD	1.00	1335		X	X	X	X	X	X		X	X	X	X	X		X			X		X	X		X	X	X	
ACSGWPWB26L	5.00	1342		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ACSGWPWB26A	1.00	1349																				X						
ACSGWPWA26	1.00	1356		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV	1.00	1404		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB	1.00	1411		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ACSGWPWDUP26	1.00	1418		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ACSGWPWT26	1.00	1425		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ACSGWPWC26	1.00	1432		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ACSGWPWD26	1.00	1439		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZ	1.00	1446																										
CCV	1.00	1453		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB	1.00	1501		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	

SW846-METALS

14

ANALYSIS RUN LOG

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Instrument ID Number: V3 Method: CV

Start Date: 09/29/05 End Date: 09/29/05

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	1631																X								
S0.2	1.00	1633																X								
S0.5	1.00	1635																X								
S1	1.00	1638																X								
S5	1.00	1640																X								
S10	1.00	1642																X								
ICV	1.00	1645																X								
ICB	1.00	1647																X								
CRA	1.00	1649																X								
CCV	1.00	1652																X								
CCB	1.00	1654																X								
ZZZZZZ	1.00	1656																								
ZZZZZZ	1.00	1658																								
ZZZZZZ	1.00	1701																								
ZZZZZZ	1.00	1703																								
ZZZZZZ	1.00	1705																								
ZZZZZZ	1.00	1707																								
ZZZZZZ	1.00	1710																								
ZZZZZZ	1.00	1712																								
ZZZZZZ	1.00	1714																								
ZZZZZZ	1.00	1716																								
CCV	1.00	1719																X								
CCB	1.00	1721																X								
ZZZZZZ	1.00	1723																								
PBW	1.00	1726																X								
LCSW	1.00	1728																X								
ACSGWPWB26	1.00	1730																X								
ACSGWPWB26D	1.00	1732																X								
ACSGWPWB26S	1.00	1735																X								
ACSGWPWB26SD	1.00	1737																X								
ACSGWPWA26	1.00	1739																X								
ACSGWPWDUP26	1.00	1741																X								
ACSGWPWT26	1.00	1743																X								
CCV	1.00	1746																X								
CCB	1.00	1748																X								
ACSGWPWC26	1.00	1750																X								
ACSGWPWD26	1.00	1753																X								
ZZZZZZ	1.00	1755																								

SW846-METALS

14

ANALYSIS RUN LOG

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Instrument ID Number: V3 Method: CV

Start Date: 09/29/05 End Date: 09/29/05

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	1757																								
ZZZZZZ	1.00	1759																								
ZZZZZZ	1.00	1802																								
ZZZZZZ	1.00	1804																								
ZZZZZZ	1.00	1806																								
ZZZZZZ	1.00	1808																								
ZZZZZZ	1.00	1811																								
CCV	1.00	1813																X								
CCB	1.00	1815																X								

SW846-METALS

14

ANALYSIS RUN LOG

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Instrument ID Number: C2 Method: AS

Start Date: 10/05/05 End Date: 10/05/05

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S400	1.00	1626																								X
S300	1.00	1626																								X
S200	1.00	1627																								X
S100	1.00	1628																								X
S40	1.00	1629																								X
S20	1.00	1629																								X
S10	1.00	1630																								X
S0	1.00	1631																								X
ICV	1.00	1633																								X
ICB	1.00	1634																								X
CCV	1.00	1635																								X
CCB	1.00	1636																								X
ZZZZZZ	1.00	1638																								
ZZZZZZ	1.00	1638																								
ZZZZZZ	1.00	1641																								
ZZZZZZ	1.00	1641																								
ZZZZZZ	1.00	1642																								
ZZZZZZ	1.00	1643																								
ZZZZZZ	1.00	1644																								
ZZZZZZ	1.00	1645																								
ZZZZZZ	1.00	1645																								
ZZZZZZ	1.00	1646																								
CCV	1.00	1647																								X
CCB	1.00	1648																								X
PBW	1.00	1650																								X
LCSW	1.00	1651																								X
ACSGWPWB26	1.00	1651																								X
ACSGWPWB26S	1.00	1652																								X
ACSGWPWB26SD	1.00	1653																								X
ACSGWPWB26D	1.00	1654																								X
ACSGWPWA26	1.00	1654																								X
ACSGWPWDUP26	1.00	1655																								X
ACSGWPWT26	1.00	1656																								X
ACSGWPWC26	1.00	1657																								X
CCV	1.00	1657																								X
CCB	1.00	1658																								
ACSGWPWD26	1.00	1700																								X
CCV	1.00	1701																								X

SW846-METALS

14

ANALYSIS RUN LOG

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Instrument ID Number: C2 Method: AS

Start Date: 10/05/05 End Date: 10/05/05

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
CCB	1.00	1702																								X

3. Quarterly Verification of Instrument Performance

a. Instrument Detection Limits (Quarterly)
[Form X - IN]

b. ICP Interelement Correction Factors (Annually)
[Form XI (Part 1) - IN]

c. ICP Interelement Correction Factors (Annually)
[Form XI (Part 2) - IN]

d. ICP Linear Ranges (Quarterly)
[Form XII - IN]

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

ICP ID Number: P4 Date: 07/15/05

Flame AA ID Number:

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum	308.22		200	13.0	P
Antimony	206.84		10	3.7	P
Arsenic	189.04		10	3.7	P
Barium	493.41		200	0.3	P
Beryllium	313.04		5	0.1	P
Cadmium	226.50		5.0	0.5	P
Calcium	317.93		5000	60.5	P
Chromium	267.72		10	1.1	P
Cobalt	228.62		5	1.1	P
Copper	324.70		5	0.8	P
Iron	271.44		100	28.0	P
Lead	220.35		3	1.6	P
Magnesium	279.08		5000	16.6	P
Manganese	257.61		10	0.3	P
Nickel	231.60		40	1.3	P
Potassium	766.49		5000	12.8	P
Selenium	196.03		5	4.5	P
Silver	328.07		5	1.3	P
Sodium	330.23		5000	237.0	P
Thallium	190.86		10	4.0	P
Vanadium	292.40		20	0.8	P
Zinc	206.20		20	1.3	P

Comments:

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: COMPUCHEM Contract: _____

Lab Code: LIBRTY Case No.: _____ SAS No.: _____ SDG No.: 7829

ICP ID Number: _____ Date: 07/19/05

Flame AA ID Number: V3

Furnace AA ID Number: _____

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Mercury	253.70		0.20	0.10	CV

Comments: _____

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: COMPUCHEM Contract: _____

Lab Code: LIBRTY Case No.: _____ SAS No.: _____ SDG No.: 7829

ICP ID Number: _____ Date: 07/20/05

Flame AA ID Number: C2

Furnace AA ID Number: _____

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Cyanide			10.0	2.8	AS

Comments: _____

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

ICP ID Number: P4 Date: 07/15/05

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Al	Ca	Fe	Mg	Ag
Aluminum	308.21	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.84	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	-0.0000110	0.0000000	-0.0007010
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0000000	0.0000000	0.0000960	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.70	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	0.0000000	0.0000000	0.0000000	0.0011390	0.0000000
Lead	220.352	-0.0001730	0.0000000	0.0000450	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000230	0.0000000
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.022	0.0000000	0.0000000	-0.0005130	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.23	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0009420	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000380	0.0000500	0.0000000

Comments:

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

ICP ID Number: P4 Date: 07/15/05

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		As	Ba	Be	Cd	Co
Aluminum	308.21	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.84	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	-0.0001460	0.0000000	0.0001490	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0002790	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.70	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	0.0000000	0.0034500	0.0000000	0.0000000	0.0806890
Lead	220.352	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.022	0.0000000	0.0000000	0.0000000	0.0000000	-0.0011540
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.23	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0005190	0.0000000	0.0000000	0.0000000	0.0033960
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0003340	0.0000000

Comments:

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

ICP ID Number: P4 Date: 07/15/05

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Cr	Cu	Mn	Mo	Na
Aluminum	308.21	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.84	0.0046900	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	-0.0049240	0.0008550	0.0000000	0.0000000	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0007210	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.70	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	0.0034500	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.352	0.0000000	0.0000000	0.0000000	0.0010610	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.022	0.0000000	0.0000000	0.0004540	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.23	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0036000	0.0000000	0.0011140	0.0000000	0.0000000
Vanadium	292.40	-0.0014400	0.0000000	0.0000000	0.0079170	0.0000000
Zinc	206.20	-0.0010780	0.0000000	0.0005880	0.0000000	0.0000220

Comments:

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

ICP ID Number: P4 Date: 07/15/05

Analyte	Wave-length (nm)	Interelement Correction Factors for: Ni	Pb	Sb	Sn	Ti
Aluminum	308.21	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.84	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0001160	0.0003320
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	-0.0007930
Cadmium	226.50	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.70	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.352	0.0000000	0.0000000	0.0000000	0.0000000	-0.0008390
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.022	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.23	0.0000000	0.0000000	0.0000000	0.0000000	-0.1794610
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	-0.0058750
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

ICP ID Number: P4 Date: 07/15/05

Analyte	Wave-length (nm)	Interelement Correction Factors for: Tl	V	Zn		
Aluminum	308.21	0.0000000	0.0090320	0.0000000		
Antimony	206.84	0.0000000	-0.0014730	0.0000000		
Arsenic	189.04	0.0000000	0.0001110	0.0000000		
Barium	493.41	0.0000000	0.0000000	0.0000000		
Beryllium	313.04	0.0000000	0.0026670	0.0000000		
Cadmium	226.50	0.0000000	0.0000000	0.0000000		
Calcium	317.93	0.0000000	0.0000000	0.0000000		
Chromium	267.72	0.0000000	-0.0002790	0.0000000		
Cobalt	228.62	0.0000000	0.0000000	0.0000000		
Copper	324.70	0.0000000	0.0000000	0.0000000		
Iron	271.44	0.0000000	0.0203810	0.0000000		
Lead	220.352	0.0000000	0.0000000	0.0000000		
Magnesium	279.08	0.0000000	0.0000000	0.0000000		
Manganese	257.61	0.0000000	0.0000000	0.0000000		
Nickel	231.60	0.0000000	0.0000000	0.0000000		
Potassium	766.49	0.0000000	0.0000000	0.0000000		
Selenium	196.022	0.0000940	-0.0000660	0.0000000		
Silver	328.068	0.0000000	-0.0018100	0.0000000		
Sodium	330.23	0.0000000	0.0000000	0.0612270		
Thallium	190.86	0.0000000	-0.0323320	0.0000000		
Vanadium	292.40	0.0000000	0.0000000	0.0000000		
Zinc	206.20	0.0000000	0.0000000	0.0000000		

Comments:

12

ICP LINEAR RANGES (QUARTERLY)

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

ICP ID Number: P4 Date: 07/21/05

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	M
Aluminum	15.00	600000.0	P
Antimony	15.00	10000.0	P
Arsenic	15.00	20000.0	P
Barium	15.00	200000.0	P
Beryllium	15.00	5000.0	P
Cadmium	15.00	10000.0	P
Calcium	15.00	300000.0	P
Chromium	15.00	30000.0	P
Cobalt	15.00	40000.0	P
Copper	15.00	50000.0	P
Iron	15.00	500000.0	P
Lead	15.00	50000.0	P
Magnesium	15.00	600000.0	P
Manganese	15.00	10000.0	P
Nickel	15.00	30000.0	P
Potassium	15.00	600000.0	P
Selenium	15.00	20000.0	P
Silver	15.00	4000.0	P
Sodium	15.00	600000.0	P
Thallium	15.00	50000.0	P
Vanadium	15.00	40000.0	P
Zinc	15.00	40000.0	P

Comments:

4. Raw Data

For each reported value, the laboratory shall include in the data package all raw data used to obtain that value. This applies to all required QA/QC measurements, instrument standardization, as well as all sample analysis results. This does not apply to the Quarterly Verification of Instrument Parameters submitted as a part of each data package.

The order of the raw data in the data package shall be: ICP, Flame AA (if used), Furnace AA (if used), mercury, and cyanide (if a target analyte).

Raw data shall be labeled using EPA sample number convention in order to identify:

- calibration standards, including source and preparation date
- initial and continuing calibration blanks and preparation blanks
- initial and continuing calibration verification standards, interference check samples, ICP serial dilution samples, CRDL standard for ICP and AA (if used), Laboratory Control Sample, and post digestion spike
- diluted and undiluted samples (by client ID number) and all weights, dilutions, and volumes used to obtain the reported values
- duplicates
- spikes
- instrument used, including all data voided or data not used and a brief written explanation
- all information for furnace analysis (if used)
- date and time of each analysis (instrument run logs can be submitted if they contain this information
- integration time for AA analyses (if used)

COMPUCHEM a division of Liberty Analytical Corp. LOGBOOK 1 O (4) 58

Trace ICP Run Log (P3) Part (A) of a two part form

Page 1 of 4

Method (Circle one.): CLP ILM04.1 SW-846 6010B MCAWW 200.7

Instrument ID: P3

Case: 7829 7897 7909 7911 7979

Date: 10.08.05

Operator: J. Feklhuer

File name: P41008Z

No.	Sample ID	Comments	Action needed	No.	Sample ID	Comments	Action Needed
					CCV -2		
	S0	Blank			CCB -2		
	S	XCL-11		1	782902		
	S	STD3		2	04		
	S	XCL-2		3	05		
	S	XCL-3B		4	07		
	S	PLSBR		5	123123		
	ICV1			6			
	SPEXASSE			7		JCF	
	~~ICV3~~	JCF 10.09.05		8		10.09.05	
	ICB			9			
	CRI			10			
	ICSA				CCV -3		
	ICSAB				CCB -3		
	CCV -1			1	81678	PBS	7897 Pb only
	CCB -1			2	81679	LCSS	
1	LRS			3	789701		
2	81092	PBW	7829	4	02		
3	81093	LCSW		5	03		
4	782903			6	04		
5	81094	Dup		7	05	JB 10/10/05	
6	81095	MS		8	06		
7	81096	MSD		9	07		
8	SPI 782903	5x		10	08		
9	PPS 782903				CCV -4		
10	782901				~~CCB -4~~		

COMMENTS

Reviewed By: [signature]

Date: 10-10-05

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

9/8/05:jad

Daily Standards/QC Preparation Log for Trace ICP (P3 & P4) 1 of 4 CompuChem a division of Liberty Analytical Corp.

STANDARDS and REAGENTS TRACEABILITY

Seq. File Name: P410082

	Ref #*	Manufacturer	Lot #	Expiration Date
HNO3 [Baker Instra-analyzed Trace-Metals grade]	1M2-176-23	JT Baker	B21039	05/06
HCl [Baker Instra-analyzed Trace-Metals grade]	1M2-176-22	Caledon	54537A	04/06
XCL-11 multi-element standard mix	7M1-33-5	High Purity	516115	07/06
XCL-2 multi-element standard mix	7M1-33-4	High Purity	516116	07/06
XCL-3B multi-element standard mix	7M1-32-3	High Purity	503324	03/06
SPEX multi-element standard mix	7M1-32-04	High Purity	503325	03/06
ICV1 multi-element standard mix	7M1-34-02	EPA	1201	08/06
ICSA multi-element standard mix	7M1-34-03	EPA	0503	05/07
ICSB multi-element standard mix	7M1-34-04	EPA	0203	05/07
LRS multi-element standard mix	7M1-28-23	CPI	2LF155	10/05
PDS-A multi-element standard mix	7M1-33-19	High Purity	518610	08/06
PDS-B multi-element standard mix	7M1-33-20	High Purity	518610	08/06
ANTIMONY (Sb) 1,000 PPM single-element standard	7M1-33-13	High Purity	510306	01/07
BISMUTH (Bi) 1,000 PPM single-element standard	7M1-33-9	High Purity	506220	01/07
BORON (B) 1,000 PPM single-element standard	7M1-33-2	High Purity	511014	01/07
BORON (B) 1,000 PPM single-element standard (2nd source)	7M1-31-22	CPI	4IG102	05/06
TITANIUM (Ti) 1,000 PPM single-element standard	7M1-33-15	High Purity	515212	01/07
TIN (Sn) 1,000 PPM single-element standard	7M1-33-14	High Purity	511820	01/07
IRON (Fe) 1,000 PPM single-element standard	7M1-33-12	High Purity	509522	01/07
IRON (Fe) 10,000 PPM single-element standard	7M1-31-10	High Purity	424536	06/06
ALUMINUM (Al) 1,000 PPM single-element standard	7M1-33-24	High Purity	518220	02/07
ALUMINUM (Al) 10,000 PPM single-element standard	7M1-33-11	High Purity	517431	01/07
CALCIUM (Ca) 10,000 PPM single-element standard	7M1-33-10	High Purity	513226	01/07
MAGNESIUM (Mg) 10,000 PPM single-element standard	7M1-33-3	High Purity	513903	01/07
MOLYBDENUM (Mo) 1,000 PPM single-element standard	7M1-33-1	High Purity	419721	01/07
LITHIUM (Li) 1,000 PPM single-element standard	7M1-34-12	CPI	04L037	09/06
LITHIUM (Li) 1,000 PPM single-element standard (2nd source)	7M1-34-13	High Purity	500309	11/06
ARSENIC (As) 1, 000 PPM single-element standard	7M1-31-12	High Purity	428701	06/06
CESIUM (Cs) 50,000 PPM single-element standard	7M1-34-15	High Purity	526211	09/06
YTTRIUM (Y) 1,000 PPM single-element standard	7M1-34-10	High Purity	519220	04/07
Internal Mix	7M1-34-5	High Purity	434138	01/06

The following standard solutions are applicable only when dissolved samples are analyzed.

	Ref #*	Manufacturer	Lot #	Expiration Date
XCL-LCS A multi-element mix	1M2-176-4	High Purity	510803	11/05
XCL-LCS B multi-element mix	1M2-176-5	High Purity	510803	11/05
XCL-20 multi-element mix	1M2-176-3	High Purity	510802	12/05

Entered By: J. FELDAHUS

Reviewed By: _____ Date: 10-10-05

*Ref# = Logbook ID, Page number, and item number from Materials Receipt Log

09/15/05:jbb

Daily Standards/QC Preparation Log for Trace ICP (P3 & P4)

Standard Lot Number*	Preparation Instructions	Resultant Analyte Conc. (ug/L)
S0/ICB/CCB- 10 08 05 - JF	Place in a 500-ml volumetric flask: 100 mL deionized water, 5 mL concentrated HNO_3, and 25 mL concentrated HCl. Bring up to volume with deionized water. Prepare as needed	N/A
XCL-11- 10 05 05 - JF	Place in a 100-ml volumetric flask: 50 mL deionized water, 1 mL concentrated HNO_3, and 5 mL concentrated HCl. Pipet 0.2 mL XCL-11 into flask. Bring up to volume with deionized water. Prepare as needed	Al:2,000 Cd:2,000 Cr:2,000 Cu:2,000 Pb:2,000 Ni:2,000 Se:2,000 Ag:200 Tl:2,000 Zn:2,000
XCL-2- 10 05 05 - JF	Place in a 100-ml volumetric flask: 50 mL deionized water, 1 ml concentrated HNO_3, and 5 mL concentrated HCl. Pipet 0.2 mL XCL-2 into flask. Bring up to volume with deionized water. Prepare as needed	As:2,000 Ba:2,000 Be:2,000 Co:2,000 Fe:2,000 Mn:2,000 Mo:2,000 V:2,000
XCL-3B- 10 06 05 - JB	Place in a 100-ml volumetric flask: 50 mL deionized water, 1 mL concentrated HNO_3, and 5 mL concentrated HCl. Pipet 1.0 mL XCL-3B into flask. Bring up to volume with deionized water. Prepare as needed	K:100,000 Na:100,000
PLSBR- 10 05 05 - JF	Place in a 100-ml volumetric flask: 50 mL deionized water, 1 mL concentrated HNO_3, and 5 mL concentrated HCl. From 1,000-ppm standards, pipet 0.2 mL of each: Sn, Bi, Ti, Sb, B, and Li into flask. Bring up to volume with deionized water. Prepare as needed.	Sn:2,000 Bi:2,000 Ti:2,000 Sb:2,000 B:2,000 Li:2,000
STD3- 10 08 05 - JF	Place in a 100-ml volumetric flask: 50 mL deionized water, 1 mL concentrated HNO_3, and 5 mL concentrated HCl. From 10,000-ppm standards, pipet 1.0 mL of each: Al, Mg, and Ca, and 0.5 mL Fe. Bring up to volume with deionized water. Prepare as needed	Al:100,000 Mg:100,000 Ca:100,000 Fe:50,000
CVS1- 09 30 05 - JB	Place in a 500-ml volumetric flask: 400 mL of deionized water, 5 mL concentrated HNO_3, and 25 mL concentrated HCl. From 1,000-ppm standards, pipet 0.5 mL of each: Sb, Sn, Bi, Ti, B, and Li, and 2.0 mL Fe. From 10,000-ppm standards, pipet 2.5 mL Ca, 2.5 mL Mg, and 2.45 mL Al. Pipet 0.5 mL XCL-2, 0.5 mL XCL-11, and 2.5 mL XCL-3B. Bring to volume with deionized water. Prepare as needed.	Al:50,000 Ba:1,000 K:50,000 Mg:50,000 Na:50,000 Ca:50,000 Ag:100 Be:1,000 Cd:1,000 Co:1,000 Cr:1,000 Cu:1,000 Fe:5,000 Mn:1,000 Ni:1,000 Tl:1,000 V:1,000 Zn:1,000 Pb:1,000 Se:1,000 As:1,000 Mo:1,000 Sn:1,000 Bi:1,000 Ti:1,000 Sb:1,000 B:1,000 Li:1,000
ICV1- 09 28 05 - JB	Place in a 200-ml volumetric flask: 100 mL deionized water, 2 mL concentrated HNO_3, and 10 mL concentrated HCl. Pipet 20.0 mL ICV1 into flask. Bring up to volume with deionized water.	Al:2,482 Ba:502 K:10,008 Mg:6,003 Na:10,039 Ca:10,180 Ag:495 Be:493 Cd:494 Co:496 Cr:490 Cu:490 Fe:5,107 Mn:495 Ni:492 Tl:1,027 V:501 Zn:1,000 Pb:996 Se:1,005 As:996

Standard Solutions Prepared By: _____

Entered By: J. FELDHAUS

Reviewed By: _____ Date: 10.10.05

*Standard Lot Number consists of standard ID, date prepared, and initials of preparer.

09/15/05:jbb

Daily Standards/QC Preparation Log for Trace ICP (P3 & P4) 3 of 4 CompuChem a division of Liberty Analytical Corp.

Standard Lot Number*	Preparation Instructions	Resultant Analyte Conc. (µg/L)
SPEXASSE-10 05 05 - JF	Place in a 200-ml volumetric flask: 50 mL deionized water, 1 mL concentrated HNO_3, and 5 mL concentrated HCl. Pipet 0.2 mL CompuChem SPEX, 0.2 mL Li 1,000-ppm standard (2nd source) and 0.2 mL B 1,000-ppm standard (2nd source). Bring up to volume with deionized water.	Mo:1,000 Sn:1,000 Bi:1,000 Ti:1,000 Sb:1,000 B:1,000 Li:1,000
ICSA-09 28 05 - JB	Place in a 500-ml volumetric flask: 350 mL of deionized water, 5 mL concentrated HNO_3, and 25 mL concentrated HCl. Pipet 50.0 mL ICSA into flask. Bring up to volume with deionized water.	Al:243,900 Ba:2 Ca:234,100 Co:3 Cr:36 Cu:15 Fe:94,900 Mg:248,800 Mn:19 Ni:10 V:1 Zn:39 Pb:5
ICSAB-09 28 05 - JB	Place in a 500-ml volumetric flask: 50 mL of deionized water, 5 mL concentrated HNO_3 and 25 mL concentrated HCl. Pipet 50.0 mL ICSA and 50.0 mL ICSB into flask. From 1,000-ppm standards, add 0.5 mL of each: Bi, Sn, Ti, and Mo. Bring up to volume with deionized water.	Ag:210 Al:248,400 Ba:475 Be:482 Ca:234,300 Cd:916 Co:455 Cr:506 Cu:537 Fe:95,100 Mg:254,100 Mn:483 Ni:930 Tl:96 V:481 Zn:975 Pb:51 Se:51 Sb:585 As:97 Sn:1,000 Bi:1,000 Mo:1,000 Ti:1,000
LRS-10 05 05 - JF	Place in a 200-ml volumetric flask: 100 mL of deionized water, 2 mL concentrated HNO_3 and 10 mL concentrated HCl. Pipet 0.20 mL LRS and 0.04 mL of B 1,000-ppm standard into flask. Bring up to volume with deionized water.	Al:100 Ba:10 K:1,000 Mg:1,000 Na:2,000 Ca:1,000 Ag:5 Be:5 Cd:5 Co:5 Cr:5 Cu:5 Fe:100 Mn:10 Ni:5 Tl:10 V:20 Zn:20 Pb:3 Se:5 As:10 Mo:5 Sn:20 Bi:50 Ti:40 Sb:10 B:200
EPA-CRI-10 03 05 - JB	Place in a 200-mL volumetric flask: 100 mL deionized water, 2 mL concentrated HNO_3, and 10 mL concentrated HCl. Pipet 0.20 mL ICP-AES-CRQL-R into flask. From 1,000-ppm standards, add: 0.008 mL Bi 0.050 mL Sn 0.010 mL Mo 0.012 mL Ti 0.020 mL B 0.001 mL Li Bring up to volume with deionized water.	Ag:10 Be:5 Cd:5 Co:50 Cr:10 Cu:25 Mn:15 Ni:40 Tl:25 V:50 Zn:60 Pb:10 Se:35 As:10 Mo:50 Sn:250 Bi:40 Ti:60 Sb:60 B:100 Li:5
COMM-CRI-09 06 05 - JB	Place in a 200-mL volumetric flask: 100 mL deionized water, 2 mL concentrated HNO_3, and 10 mL concentrated HCl. Pipet 0.20 mL PDS-A and 0.20 mL PDS-B into flask. From 1,000-ppm standards, pipet: 0.008 mL Bi 0.008 mL Sn 0.004 mL Mo 0.012 mL Ti 0.100 mL B Bring up to volume with deionized water.	Al:400 Ba:400 Ag:20 Be:10 Cd:10 Co:100 Cr:20 Cu:50 Fe:200 Mn:30 Ni:80 Tl:20 V:100 Zn:40 Pb:6 Se:10 As:20 Mo:20 Sn:50 Bi:50 Ti:50 Sb:120

Standard Solutions Prepared By: JCA

Entered By: J. FELDHAUS

Reviewed By: [signature] Date: 10.10.05

*Standard Lot Number consists of standard ID, date prepared, and initials of preparer.

09/15/05:jbb

Daily Standards/QC Preparation Log for Trace ICP (P3 & P4) 4 of 4 CompuChem a division of Liberty Analytical Corp.

Standard Lot Number*	Preparation Instructions	Resultant Analyte Conc. (µg/L)
As- 09 23 05 - JB	Place in a 100 mL volumetric flask: 50 mL deionized water, 1 mL concentrated HNO_3, and 0.1 mL 1000-ppm As standard. Bring to volume with deionized water.	As:1,000
INTSTD- 09 29 05 - JB	Place in a 10 L container: 8 L deionized water, 400 mL concentrated HNO_3, and 200 mL Internal Mix. Fill with deionized water.	Li:1,000,000 Y:5,000
INTSTD2- 09 21 05 - JB	Place in a 10 L container: 8 L deionized water, 400 mL concentrated HNO_3, 1000 mL 50,000-ppm Cs standard, and 60 mL 1,000-ppm Y standard. Fill with deionized water.	Cs:5,000,000 Y:6,000

Dissolved Metals only:	Prepared By	Date Prepared	Preparation Instructions
LCS	N/A	N/A	Add 0.1 mL of XCL-LCS solution A and 0.1 mL of XCL-LCS solution B to 9.8 mL acidified water (1% HNO_3 + 5% HCl).
Prep Blank	N/A	N/A	Use acidified water (1% HNO_3 + 5% HCl).
Sample Spike	N/A	N/A	Add 0.1 mL of XCL-20 to 9.9 mL of sample.

Standard Solutions Prepared By: _____

Entered By: J. FELDHAUS

Reviewed By: _____ Date: 10-10-05

*Standard Lot Number consists of standard ID, date prepared, and initials of preparer.

09/15/05:jbb

The presence of the Chemist's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist together with the chemist's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Method: CLP-P4Z Standard: BLANK
Run Time: 10/08/05 11:16:10

Elem	Ag3280	Al3082	Ba4934	Be3130	Ca3179	Cd2265	Co2286
Avge	-.07333	.04888	.01386	.02144	.04053	-.00438	-.00023
SDev	.00814	.00224	.00034	.00029	.00090	.00311	.00079
%RSD	11.106	4.5888	2.4496	1.3373	2.2282	71.068	345.84
#1	-.07700	.04858	.01415	.02166	.04006	-.00080	-.00080
#2	-.07900	.05126	.01395	.02155	.03996	-.00592	-.00056
#3	-.06400	.04681	.01349	.02112	.04157	-.00643	.00067

Elem	Cr2677	Cu3247	Fe2714	K_7664	Mg2790	Mn2576	Na3302
Avge	-.00067	.32332	-.00117	.16883	-.00030	.00017	.00192
SDev	.00063	.00252	.00080	.00322	.00401	.00015	.00252
%RSD	94.456	.77833	68.782	1.9098	1356.2	86.603	131.08
#1	-.00125	.32098	-.00025	.16673	.00418	.00025	.00226
#2	.00000	.32598	-.00175	.17255	-.00151	.00000	-.00075
#3	-.00075	.32298	-.00150	.16723	-.00356	.00025	.00425

Elem	Ni2316	Tl1908	V_2924	Zn2062	Sb2068	As1890	22031
Avge	-.00231	-.01250	-.00093	.00217	.00293	-.00508	.02046
SDev	.00161	.00913	.00058	.00015	.00224	.00927	.02369
%RSD	69.830	72.996	62.086	6.8847	76.399	182.25	115.77
#1	-.00325	-.00953	-.00099	.00226	.00550	-.00050	.04438
#2	-.00045	-.00524	-.00033	.00199	.00137	.00100	-.00299
#3	-.00323	-.02275	-.00148	.00225	.00193	-.01575	.02000

Elem	22032	19601	19602	Sn1899	Bi2230	Mo2020	Ti3349
Avge	-.01327	-.01100	.00816	.00275	.00500	-.00085	-.00350
SDev	.01206	.01045	.00850	.00787	.00240	.00060	.00150
%RSD	90.903	94.940	104.24	285.66	47.911	69.944	42.907
#1	-.02407	-.00752	-.00050	.00050	.00752	-.00023	-.00351
#2	-.00025	-.00274	.00848	-.00374	.00474	-.00091	-.00199
#3	-.01550	-.02275	.01650	.01150	.00275	-.00141	-.00500

Method: CLP-P4Z Standard: XCL-11
Run Time: 10/08/05 11:23:13

Elem	Ag3280	Cd2265	Cr2677	Cu3247	Ni2316	Tl1908	Zn2062
Avge	4.9998	35.867	6.6189	72.746	9.3714	4.8213	3.4786
SDev	.0056	1.000	.1842	.328	.2637	.1555	.0994
%RSD	.11135	2.7869	2.7830	.45138	2.8137	3.2256	2.8584
#1	4.9948	37.019	6.8310	73.001	9.6751	5.0009	3.5933
#2	4.9988	35.351	6.5262	72.375	9.2381	4.7336	3.4161
#3	5.0057	35.230	6.4994	72.860	9.2010	4.7294	3.4264

Elem	22031	22032	19601	19602
Avge	45.034	17.005	4.7910	9.3000
SDev	1.114	.401	.1632	.2955
%RSD	2.4742	2.3580	3.4054	3.1774
#1	46.291	17.468	4.9776	9.6410
#2	44.167	16.753	4.6751	9.1393
#3	44.646	16.796	4.7205	9.1196

Method: CLP-P4Z Standard: STD3
Run Time: 10/08/05 11:30:16

Elem	Al3082	Ca3179	Fe2714	Mg2790
Avge	49.566	113.49	6.2095	63.461
SDev	.204	.26	.0496	.453
%RSD	.41205	.22816	.79868	.71342
#1	49.584	113.26	6.1688	63.282
#2	49.760	113.77	6.2647	63.976
#3	49.353	113.44	6.1951	63.126

Method: CLP-P4Z Standard: XCL-2
Run Time: 10/08/05 11:35:46

Anm	Ba4934	Be3130	Co2286	Mn2576	V 2924	As1890	Mo2020
Avge	40.262	23.391	6.2623	5.9485	4.5956	6.7636	3.7759
SDev	.689	.500	.1285	.1340	.1222	.1407	.0876
%RSD	1.7117	2.1376	2.0514	2.2527	2.6588	2.0804	2.3186
#1	40.088	23.131	6.1966	5.8799	4.5089	6.7097	3.7185
#2	41.022	23.968	6.4104	6.1029	4.7353	6.9233	3.8767
#3	39.677	23.075	6.1801	5.8626	4.5426	6.6579	3.7326

Method: CLP-P4Z Standard: XCL-3A
Run Time: 10/08/05 11:41:15

Elem	K 7664	Na3302
Avge	504.20	3.3616
SDev	5.60	.0341
%RSD	1.1111	1.0143
#1	502.66	3.3711
#2	499.53	3.3237
#3	510.41	3.3899

Method: CLP-P4Z Standard: PLSBR
Run Time: 10/08/05 11:45:59

Item	Sb2068	Sn1899	Bi2230	Ti3349
Avge	4.1409	17.339	3.6674	47.769
SDev	.0184	.045	.0079	.144
%RSD	.44505	.25873	.21548	.30162
#1	4.1238	17.333	3.6742	47.640
#2	4.1385	17.298	3.6587	47.925
#3	4.1604	17.387	3.6691	47.743

Method: CLP-P4Z Sample Name: ICV1 Operator:
Run Time: 10/08/05 11:51:29
Comment: ICV
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	Ba4934	Be3130	Ca3179	Cd2265	Co2286
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	492.3618	2478.371	471.6029	487.8646	10350.60	488.0900	485.2421
SDev	.4943	75.491	9.5311	11.2498	265.69	6.3897	6.7717
%RSD	.1004034	3.046006	2.020995	2.305927	2.566915	1.309125	1.395522
#1	491.9512	2559.123	481.1952	499.9533	10643.83	494.6177	490.9451
#2	492.9105	2466.425	471.4793	485.9380	10282.11	487.8044	487.0233
#3	492.2236	2409.564	462.1343	477.7025	10125.85	481.8478	477.7578
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	495.0000	2482.000	502.0000	493.0000	10180.00	494.0000	496.0000
Range	10.40000	10.40000	10.40000	10.40000	10.40000	10.40000	10.40000

Elem	Cr2677	Cu3247	Fe2714	K 7664	Mg2790	Mn2576	Na3302
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	483.2825	488.9956	5156.853	9341.666	6035.558	486.0628	9682.117
SDev	8.7743	2.8832	79.464	183.333	106.780	5.2711	282.574
%RSD	1.815559	.5896155	1.540930	1.962534	1.769175	1.084454	2.918517
#1	492.4781	491.7203	5240.161	9516.949	6152.748	489.9711	9959.302
#2	482.3684	489.2902	5148.506	9356.824	6010.158	488.1494	9692.604
#3	475.0011	485.9765	5081.893	9151.224	5943.769	480.0677	9394.445
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	490.0000	490.0000	5107.000	10008.00	6003.000	495.0000	10039.00
Range	10.40000	10.40000	10.40000	10.40000	10.40000	10.40000	10.40000

Elem	Ni2316	Tl1908	V 2924	Zn2062	Pb2203	Se1960	Sb2068
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	485.5646	990.8458	484.4771	983.3091	994.3545	990.0269	1011.708
SDev	9.5418	2.0803	11.9685	13.0806	20.1585	21.5164	19.082
%RSD	1.965090	.2099558	2.470403	1.330261	2.027300	2.173320	1.886111
#1	495.2209	993.0866	497.2237	996.9333	1017.611	1014.154	1029.519
#2	485.3314	990.4752	482.7286	982.1438	983.5628	983.0982	1014.036
#3	476.1416	988.9758	473.4789	970.8501	981.8892	972.8283	991.5686
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	492.0000	1027.000	501.0000	1000.000	996.0000	1005.000	992.0000
Range	10.40000	10.40000	10.40000	10.40000	10.40000	10.40000	10.40000

Elem	As1890	22031	22032	19601	19602	Sn1899	Bi2230
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	957.0814	987.1685	997.9387	989.8168	990.1287	-.882062	-3.04647
SDev	15.9391	12.8316	24.0218	14.0541	25.3357	1.041659	.79758
%RSD	1.665383	1.299835	2.407144	1.419873	2.558826	118.0936	26.18026
#1	969.7231	1001.734	1025.535	1005.970	1018.237	.2649631	-2.13913
#2	962.3447	977.5352	986.5687	983.0890	983.0998	-1.76911	-3.36349
#3	939.1763	982.2358	981.7128	980.3912	969.0496	-1.14204	-3.63680
Errors	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	996.0000						
Range	10.40000						

Elem	Mo2020	Ti3349
Units	ug/L	ug/L
Avge	.4316531	.1844894
SDev	.5287282	.0995690
%RSD	122.4891	53.97001
#1	.4304616	.1679287
#2	.9609760	.0942392
#3	-.096478	.2913004
Errors	NOCHECK	NOCHECK
Value		
Range		

Method: CLP-P4Z Sample Name: SPEXASSE Operator:
Run Time: 10/08/05 11:58:31
Comment: ICV
Type: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	Ba4934	Be3130	Ca3179	Cd2265	Co2286
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	.1855640	34.37098	.6248599	.0335884	-.807879	.0731611	1.199394
SDev	.3217270	1.23023	.0134483	.0187118	.402740	.0848573	.100857
%RSD	173.3780	3.579283	2.152205	55.70903	49.85157	115.9868	8.409021
#1	.3306975	34.73879	.6391001	.0490197	-.862850	.1344138	1.305341
#2	-.183162	35.37537	.6123762	.0389700	-1.18031	-.023698	1.104544
#3	.4091568	32.99880	.6231034	.0127755	-.380476	.1087681	1.188297
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

Elem	Cr2677	Cu3247	Fe2714	K 7664	Mg2790	Mn2576	Na3302
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	.8575067	.3497823	7.391096	1.152031	152.1419	-.031705	-142.745
SDev	.1178401	.1913181	5.299968	1.076042	1.8102	.048381	40.612
%RSD	13.74217	54.69634	71.70747	93.40388	1.189788	152.5970	28.45070
#1	.7287046	.5706974	13.39754	2.394245	150.1101	.0241604	-119.059
#2	.8839104	.2393247	5.403560	.5075738	152.7329	-.059628	-119.538
#3	.9599051	.2393247	3.372186	.5542753	153.5828	-.059647	-189.639
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

Elem	Ni2316	Tl1908	V 2924	Zn2062	Pb2203	Se1960	Sb2068
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-.086522	1.122822	.8814821	.1882456	.4834006	.1735169	998.9742
SDev	.385013	3.093843	.3923602	.5188856	.3130783	2.822414	3.0102
%RSD	444.9885	275.5418	44.51142	275.6429	64.76579	1626.592	.3013255
#1	.0040852	3.153274	1.205708	.3242956	.3114918	-2.57349	996.1593
#2	.2451063	2.653143	.4453168	-.385111	.8447702	.0283123	998.6157
#3	-.508757	-2.43795	.9934215	.6255522	.2939400	3.065730	1002.148
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

Elem	As1890	22031	22032	19601	19602	Sn1899	Bi2230
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-2.13471	-1.66615	1.553563	-2.50045	1.505495	991.7619	988.0298
SDev	3.05381	.48321	.250290	2.97045	2.954722	6.0703	2.0917
%RSD	143.0552	29.00161	16.11070	118.7965	196.2625	.6120720	.2117016
#1	-5.43527	-2.06745	1.496195	-4.34053	-1.69429	985.5753	985.6165
#2	-1.55937	-1.12978	1.827556	-4.08723	2.079989	992.0018	989.1516
#3	.5905092	-1.80121	1.336937	.9264065	4.130781	997.7087	989.3213
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value						1000.000	1000.000
Range						10.40000	10.40000

Elem	Mo2020	Ti3349
Units	ug/L	ug/L
Avge	985.1873	994.2634
SDev	10.2756	7.8664
%RSD	1.043008	.7911767
#1	976.1522	985.4943
#2	983.0443	1000.699
#3	996.3654	996.5967
rors	QC Pass	QC Pass
alue	1000.000	1000.000
Range	10.40000	10.40000

Method: CLP-P4Z Sample Name: ICB Operator:
Run Time: 10/08/05 12:05:33
Comment: ICB
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	Ba4934	Be3130	Ca3179	Cd2265	Co2286
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	.6177681	1.127564	.5477200	.0527169	.0237764	.1046890	.4171700
SDev	.4678079	5.879640	.0169977	.0437150	1.002058	.1268755	.1047841
%RSD	75.72549	521.4463	3.103361	82.92390	4214.508	121.1928	25.11784
#1	.3681221	4.931233	.5318023	.1016054	-.405711	.1889399	.4526287
#2	.3277394	4.095971	.5457344	.0391554	-.691950	-.041233	.4996241
#3	1.157443	-5.64451	.5656233	.0173900	1.168990	.1663600	.2992572
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	10.00000	200.0000	200.0000	5.000000	1000.000	5.000000	50.00000

Elem	Cr2677	Cu3247	Fe2714	K 7664	Mg2790	Mn2576	Na3302
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	.4803714	-.193301	10.18119	2.281815	172.5293	.0242409	26.12122
SDev	.3901888	.124520	6.16030	1.871062	4.4976	.0842512	80.27106
%RSD	81.22647	64.41774	60.50674	81.99885	2.606860	347.5587	307.3021
#1	.0499430	-.202505	3.454365	3.601613	175.0165	-.060140	5.274347
#2	.5802782	-.312964	15.54753	.1405407	167.3374	.1083614	-41.6698
#3	.8108932	-.064434	11.54166	3.103292	175.2339	.0245017	114.7591
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	10.00000	25.00000	100.0000	1000.000	1000.000	15.00000	2000.000

Elem	Ni2316	Tl1908	V 2924	Zn2062	Pb2203	Se1960	Sb2068
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	.5135610	.8335031	.0882393	-.002873	.6755574	1.727410	3.040606
SDev	.1102768	.8909424	.5099437	.301139	1.236519	2.751824	2.131316
%RSD	21.47297	106.8913	577.9099	10481.90	183.0369	159.3034	70.09512
#1	.6408082	.4854912	.1023019	-.241942	.0028519	-1.01241	5.278548
#2	.4458018	.1690914	-.428590	-.102014	-.078769	1.703561	1.034944
#3	.4540731	1.845927	.5910063	.3353373	2.102589	4.491081	2.808326
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	40.00000	10.00000	50.00000	20.00000	200.0000	5.000000	60.00000

Elem	As1890	22031	22032	19601	19602	Sn1899	Bi2230
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-.025855	2.042566	-.009935	2.877299	1.150314	-1.29870	-1.08053
SDev	1.907040	1.236183	2.355954	2.069284	4.395848	.87998	1.67170
%RSD	7375.839	60.52108	23712.63	71.91756	382.1433	67.75817	154.7118
#1	2.023281	1.729604	-.862248	4.373220	-3.70421	-2.25251	-2.17612
#2	-1.74869	3.405152	-1.82112	.5157713	2.293564	-.518406	-1.90908
#3	-.352153	.9929418	2.653562	3.742908	4.861587	-1.12519	.8436208
Errors	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value	.0000000					.0000000	.0000000
Range	10.00000					20.00000	10.00000

Elem	Mo2020	Ti3349
Units	ug/L	ug/L
Avge	1.605741	.0836656
SDev	.908977	.1000313
%RSD	56.60794	119.5608
#1	2.305283	.1781938
#2	1.933626	-.021084
#3	.5783126	.0938868
Errors	QC Pass	QC Pass
Value	.0000000	.0000000
Range	10.00000	30.00000

Method: CLP-P4Z Sample Name: CRI Operator:
Run Time: 10/08/05 12:12:36
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	Ba4934	Be3130	Ca3179	Cd2265	Co2286
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	10.48527	.5552108	.5101139	5.084721	2.794875	5.240267	50.07950
SDev	.45376	2.478746	.0409817	.247247	.691961	.015445	2.01868
%RSD	4.327597	446.4514	8.033839	4.862549	24.75821	.2947433	4.030953
#1	10.78561	-1.79147	.5355164	4.943059	3.539943	5.256989	48.79262
#2	9.963285	.3094029	.4628361	5.370214	2.172410	5.226536	52.40610
#3	10.70691	3.147703	.5319892	4.940888	2.672272	5.237276	49.03978
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	10.00000	.0000000	.0000000	5.000000	.0000000	5.000000	50.00000
Range	3.000000	400.0000	400.0000	1.500000	2000.000	1.500000	15.00000

Elem	Cr2677	Cu3247	Fe2714	K 7664	Mg2790	Mn2576	Na3302
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	10.49083	25.24876	11.30869	.2539249	169.5512	15.04805	-109.944
SDev	.20968	.23159	4.19305	2.212146	3.5204	.53152	150.428
%RSD	1.998735	.9172214	37.07816	871.1812	2.076322	3.532133	136.8229
#1	10.39520	25.39604	6.595196	2.697450	173.1851	14.64382	51.45704
#2	10.73128	25.36842	12.70684	-1.61241	166.1565	15.65011	-246.240
#3	10.34602	24.98182	14.62404	-.323264	169.3122	14.85021	-135.048
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	10.00000	25.00000	.0000000	.0000000	.0000000	15.00000	.0000000
Range	3.000000	7.500000	200.0000	2000.000	2000.000	4.500000	2000.000

Elem	Ni2316	Tl1908	V 2924	Zn2062	Pb2203	Se1960	Sb2068
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	41.45555	24.58814	50.30386	63.85197	10.65601	33.65479	62.61181
SDev	1.71193	1.71706	1.74243	2.90170	.40293	.09166	2.84396
%RSD	4.129564	6.983281	3.463815	4.544422	3.781256	.2723616	4.542211
#1	40.83695	24.07991	49.25675	61.95467	10.26490	33.73940	60.75696
#2	43.39080	23.18255	52.31528	67.19229	11.06980	33.66755	65.88610
#3	40.13890	26.50194	49.33955	62.40896	10.63334	33.55741	61.19238
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	40.00000	25.00000	50.00000	60.00000	10.00000	35.00000	60.00000
Range	12.00000	12.50000	15.00000	18.00000	5.000000	10.50000	30.00000

Elem	As1890	22031	22032	19601	19602	Sn1899	Bi2230
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	10.34892	9.861454	11.04888	31.95284	34.50143	248.0437	40.10053
SDev	1.49065	.947888	.95747	.89370	.57894	10.9188	1.96389
%RSD	14.40394	9.612054	8.665782	2.796943	1.678009	4.401960	4.897411
#1	11.98044	9.903963	10.44135	31.34601	34.93131	241.6886	42.36780
#2	9.058134	8.893026	12.15260	31.53340	34.72986	260.6515	39.00510
#3	10.00818	10.78737	10.55268	32.97912	33.84313	241.7911	38.92868
Errors	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value	10.00000					250.0000	40.00000
Range	3.000000					125.0000	20.00000

Elem	Mo2020	Ti3349
Units	ug/L	ug/L
Avge	50.64281	59.43526
SDev	1.81538	2.18445
%RSD	3.584669	3.675338
#1	49.59184	58.22028
#2	52.73902	61.95708
#3	49.59757	58.12842
Errors	QC Pass	QC Pass
Value	50.00000	60.00000
Range	25.00000	30.00000

Method: CLP-P4Z Sample Name: ICSA Operator:
Run Time: 10/08/05 12:19:38
Comment: ICSA
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	Ba4934	Be3130	Ca3179	Cd2265	Co2286
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	.4248097	249047.0	2.575014	.3381891	247422.3	-1.45638	3.368660
SDev	.1207520	2048.8	.021676	.0515825	1065.5	.54075	.153227
%RSD	28.42497	.8226522	.8417963	15.25257	.4306510	37.12962	4.548611
#1	.2930992	251323.6	2.595599	.3160042	248213.1	-1.64094	3.348023
#2	.5302921	247351.5	2.577053	.3971525	246210.6	-.847510	3.531159
#3	.4510379	248466.0	2.552390	.3014107	247843.1	-1.88068	3.226797
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	243900.0	2.000000	.0000000	234100.0	.0000000	3.000000
Range	20.00000	49853.16	400.0000	10.00000	47850.04	10.00000	100.0000

Elem	Cr2677	Cu3247	Fe2714	K 7664	Mg2790	Mn2576	Na3302
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	38.82180	14.22141	100956.1	4.825760	258668.4	18.91079	627.8466
SDev	.42382	.28206	161.9	2.388509	588.3	.08731	81.2746
%RSD	1.091695	1.983373	.1604001	49.49498	.2274515	.4616998	12.94497
#1	38.48316	14.54358	100864.7	7.583156	259342.5	18.81057	709.5739
#2	38.68516	14.10175	100860.4	3.497575	258258.7	18.95140	547.0325
#3	39.29708	14.01891	101143.0	3.396549	258403.9	18.97039	626.9334
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	36.00000	15.00000	94900.00	.0000000	248800.0	19.00000	.0000000
Range	20.00000	50.00000	19397.56	2000.000	50854.72	30.00000	2000.000

Elem	Ni2316	Tl1908	V 2924	Zn2062	Pb2203	Se1960	Sb2068
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	12.66840	-10.0893	2.381449	25.81100	5.519859	-.942038	4.632123
SDev	.94110	4.4189	.184616	.38648	1.424831	4.762673	2.722537
%RSD	7.428698	43.79771	7.752240	1.497339	25.81281	505.5713	58.77514
#1	13.53088	-5.43954	2.213232	25.78547	5.140834	-1.46108	5.637682
#2	11.66465	-14.2339	2.578960	25.43792	4.322867	-5.42393	6.708849
#3	12.80966	-10.5944	2.352156	26.20961	7.095878	4.058897	1.549839
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	10.00000	.0000000	1.000000	39.00000	5.000000	.0000000	.0000000
Range	80.00000	20.00000	100.0000	40.00000	6.000000	10.00000	120.0000

Elem	As1890	22031	22032	19601	19602	Sn1899	Bi2230
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	4.033391	6.030693	5.260886	3.388415	-3.10717	.9782471	2.392139
SDev	2.365531	2.493444	.972566	10.36589	2.53570	1.042609	2.775339
%RSD	58.64867	41.34590	18.48673	305.9216	81.60809	106.5793	116.0191
#1	3.566929	4.722511	5.345741	5.411541	-4.89539	2.042612	4.213650
#2	1.935841	4.463577	4.248672	-7.83990	-4.22091	.9332809	-.802053
#3	6.597405	8.905991	6.188244	12.59360	-.205204	-.041152	3.764820
Errors	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value	.0000000					.0000000	.0000000
Range	20.00000					40.00000	20.00000

Elem	Mo2020	Ti3349
Units	ug/L	ug/L
Avge	-3.07393	-2.72459
SDev	.29274	.21711
%RSD	9.523453	7.968699
#1	-3.00624	-2.74720
#2	-3.39458	-2.49705
#3	-2.82095	-2.92951
Errors	QC Pass	QC Pass
Value	.0000000	.0000000
Range	20.00000	60.00000

Method: CLP-P4Z Sample Name: ICSAB Operator:
Run Time: 10/08/05 12:26:42
Comment: ICSAB
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	Ba4934	Be3130	Ca3179	Cd2265	Co2286
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	196.4433	250913.0	477.0839	484.4055	249485.7	938.0590	465.9717
SDev	.3772	7162.3	11.4841	9.5566	4899.7	16.4736	11.0632
%RSD	.1920060	2.854501	2.407137	1.972846	1.963937	1.756132	2.374215
#1	196.5974	259182.6	490.3429	495.3375	255103.4	956.5416	478.3992
#2	196.7191	246876.0	470.2753	477.6370	246094.7	924.9222	457.1964
#3	196.0135	246680.5	470.6334	480.2419	247259.1	932.7133	462.3193
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	210.0000	248400.0	475.0000	482.0000	234300.0	916.0000	455.0000
Range	42.92400	50772.96	97.09000	98.52080	47890.92	187.2304	93.00200

Elem	Cr2677	Cu3247	Fe2714	K 7664	Mg2790	Mn2576	Na3302
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	509.7249	492.0332	101189.7	6.958610	257516.3	501.7757	501.1587
SDev	11.0304	4.0916	2377.9	1.941225	6163.8	13.2734	79.0585
%RSD	2.163993	.8315723	2.349960	27.89673	2.393575	2.645294	15.77514
#1	522.3507	496.6632	103892.1	8.849762	264559.2	516.7416	592.4461
#2	501.9585	488.9036	99417.62	7.055153	253105.6	491.4292	455.0516
#3	504.8656	490.5328	100259.2	4.970915	254884.1	497.1563	455.9785
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	506.0000	537.0000	95100.00	.0000000	254100.0	483.0000	.0000000
Range	103.4264	109.7628	19438.44	2000.000	51938.04	98.72520	2000.000

Elem	Ni2316	Tl1908	V 2924	Zn2062	Pb2203	Se1960	Sb2068
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	957.8360	81.07243	481.5971	944.1026	55.44714	43.66539	613.2351
SDev	18.1772	1.20785	10.9158	19.3783	1.29793	3.28585	9.9695
%RSD	1.897739	1.489844	2.266583	2.052565	2.340845	7.525061	1.625722
	977.7597	82.00073	494.1360	966.3480	55.32918	44.83387	624.7291
#2	942.1561	81.50974	474.2159	930.8876	54.21221	46.20730	606.9356
#3	953.5921	79.70684	476.4393	935.0723	56.80002	Q39.95501	608.0404
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	930.0000	96.00000	481.0000	975.0000	51.00000	51.00000	585.0000
Range	190.0920	19.62240	98.31641	199.2900	10.42440	10.42440	119.5740

Elem	As1890	22031	22032	19601	19602	Sn1899	Bi2230
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	96.97752	53.43415	56.44894	45.26209	42.86505	966.2256	1017.377
SDev	3.84437	.59259	2.19213	5.38141	2.83765	26.6429	19.820
%RSD	3.964187	1.109010	3.883388	11.88945	6.619969	2.757417	1.948099
#1	101.1880	53.07659	56.45053	49.70544	42.39847	996.9393	1040.119
#2	93.65448	54.11818	54.25601	46.80233	45.90709	949.3373	1003.789
#3	96.09006	53.10768	58.64027	39.27849	40.28961	952.4003	1008.222
Errors	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value	97.00000					1000.000	1000.000
Range	19.82680					205.0000	205.0000

Elem	Mo2020	Ti3349
Units	ug/L	ug/L
Avge	968.0710	1002.480
SDev	17.2847	26.038
%RSD	1.785475	2.597308
#1	984.4727	1032.543
#2	950.0214	987.0752
#3	969.7189	987.8228
Errors	QC Pass	QC Pass
Value	1000.000	1000.000
Range	205.0000	205.0000

Method: CLP-P4Z Sample Name: CCV Operator:
Run Time: 10/08/05 12:33:45
Comment: CCV CVS1
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	Ba4934	Be3130	Ca3179	Cd2265	Co2286
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	100.0259	50097.72	957.0581	999.4638	51641.62	987.6238	973.2150
SDev	1.0605	968.54	19.1405	16.2679	787.20	20.4472	24.3437
%RSD	1.060209	1.933297	1.999928	1.627659	1.524351	2.070340	2.501366
#1	99.04247	49324.21	943.5364	986.7642	51011.64	970.8651	958.9788
#2	101.1495	51184.00	978.9593	1017.800	52524.09	1010.406	1001.324
#3	99.88560	49784.97	948.6786	993.8269	51389.14	981.6000	959.3424
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	100.0000	50000.00	1000.000	1000.000	50000.00	1000.000	1000.000
Range	10.40000	5200.000	104.0000	104.0000	5200.000	104.0000	104.0000

Elem	Cr2677	Cu3247	Fe2714	K 7664	Mg2790	Mn2576	Na3302
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	984.7440	983.2105	4944.792	50813.95	49777.98	982.4258	50026.16
SDev	17.7623	8.7029	108.423	1209.90	1009.63	23.7758	1182.33
%RSD	1.803753	.8851540	2.192676	2.381035	2.028266	2.420113	2.363430
#1	974.0783	975.4968	4882.520	49973.59	49097.61	969.6947	49308.01
#2	1005.249	992.6454	5069.987	52200.67	50938.03	1009.856	51390.78
#3	974.9050	981.4891	4881.867	50267.60	49298.31	967.7264	49379.70
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1000.000	1000.000	5000.000	50000.00	50000.00	1000.000	50000.00
Range	104.0000	104.0000	520.0000	5200.000	5200.000	104.0000	5200.000

Elem	Ni2316	Tl1908	V 2924	Zn2062	Pb2203	Se1960	Sb2068
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	978.1138	934.9011	972.6024	973.6499	981.1991	984.8212	1025.342
SDev	21.4811	48.0768	16.3232	19.4770	17.7875	9.8406	22.041
%RSD	2.196177	5.142453	1.678297	2.000411	1.812834	.9992276	2.149639
#1	961.4822	Q881.8442	959.2781	961.2272	971.0414	980.6456	1008.323
#2	1002.366	975.5755	990.8098	996.0974	1001.738	996.0610	1050.240
#3	970.4930	947.2835	967.7192	963.6252	970.8179	977.7568	1017.463
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1000.000	1000.000	1000.000	1000.000	1000.000	1000.000	1000.000
Range	104.0000	104.0000	104.0000	104.0000	104.0000	104.0000	104.0000

Elem	As1890	22031	22032	19601	19602	Sn1899	Bi2230
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	983.0571	972.3271	985.6254	987.9976	983.2322	998.9620	969.9884
SDev	14.0960	20.6693	16.3686	11.3640	9.1210	27.4986	22.4076
%RSD	1.433889	2.125753	1.660736	1.150206	.9276552	2.752715	2.310092
#1	969.2872	961.5473	975.7784	984.3481	978.7941	983.3334	952.1119
#2	997.4579	996.1578	1004.521	1000.738	993.7230	1030.713	995.1262
#3	982.4262	959.2761	976.5771	978.9067	977.1797	982.8394	962.7271
Errors	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value	1000.000					1000.000	1000.000
Range	104.0000					104.0000	104.0000

Elem	Mo2020	Ti3349
Units	ug/L	ug/L
Avge	984.3409	1004.593
SDev	21.7071	18.781
%RSD	2.205247	1.869506
#1	964.2314	990.8956
#2	1007.354	1026.002
#3	981.4379	996.8817
Errors	QC Pass	QC Pass
Value	1000.000	1000.000
Range	104.0000	104.0000

Method: CLP-P4Z Sample Name: CCB Operator:
Run Time: 10/08/05 12:40:49
Comment: CCB
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	Ba4934	Be3130	Ca3179	Cd2265	Co2286
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-.170823	5.511415	.5193608	.0832505	12.91633	.0039599	.1108162
SDev	.182101	3.300269	.0339890	.0302293	1.51632	.0972316	.5099594
%RSD	106.6026	59.88061	6.544390	36.31125	11.73952	2455.412	460.1851
#1	-.381094	2.939933	.5570775	.0958248	13.29902	-.057833	-.433333
#2	-.065302	9.232804	.4911036	.1051630	11.24533	-.046324	.1879923
#3	-.066071	4.361507	.5099013	.0487636	14.20464	.1160365	.5777887
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	10.00000	200.0000	200.0000	5.000000	1000.000	5.000000	50.00000

Elem	Cr2677	Cu3247	Fe2714	K 7664	Mg2790	Mn2576	Na3302
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	.5530887	-.368192	4.192685	.7467591	170.3014	.0238990	-97.9007
SDev	.4353693	.167972	4.166208	1.531117	1.2753	.0010794	77.9936
%RSD	78.71600	45.62063	99.36852	205.0349	.7488567	4.516443	79.66603
#1	.0504467	-.285349	-.484372	2.032078	170.2967	.0242869	-41.6554
#2	.8121401	-.561493	7.506481	1.155426	171.5790	.0247309	-65.1108
#3	.7966792	-.257735	5.555945	-.947226	169.0284	.0226793	-186.936
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	10.00000	25.00000	100.0000	1000.000	1000.000	15.00000	2000.000

Elem	Ni2316	Tl1908	V 2924	Zn2062	Pb2203	Se1960	Sb2068
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	.1247097	2.740334	.0029593	.4706226	.5852434	.4938470	-.657695
SDev	.3149044	3.078891	.2124535	.1513084	1.388695	.3159884	.481529
%RSD	252.5099	112.3546	7179.242	32.15068	237.2850	63.98509	73.21464
#1	-.186638	6.108801	-.009236	.3325623	1.195366	.1314184	-.585427
#2	.1177128	2.040807	.2212478	.6323821	-1.00406	.7115695	-1.17127
#3	.4430543	.0713951	-.203134	.4469233	1.564428	.6385528	-.216385
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	40.00000	10.00000	50.00000	20.00000	200.0000	5.000000	60.00000

Elem	As1890	22031	22032	19601	19602	Sn1899	Bi2230
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	1.861896	-.373362	1.060833	-4.01602	2.742406	-1.55446	-3.23247
SDev	1.909911	1.226093	1.612637	3.06741	1.983300	1.45194	2.77531
%RSD	102.5788	328.3926	152.0160	76.37945	72.31969	93.40456	85.85728
#1	3.724152	.8076646	1.385918	-.848803	.6177864	-.608685	-6.42010
#2	1.953882	-1.64003	-.689581	-6.97279	4.544966	-3.22621	-1.35300
#3	-.092346	-.287719	2.486163	-4.22647	3.064466	-.828497	-1.92430
Errors	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value	.0000000					.0000000	.0000000
Range	10.00000					20.00000	10.00000

Elem	Mo2020	Ti3349
Units	ug/L	ug/L
Avge	1.692987	.0558855
SDev	.653522	.0487489
%RSD	38.60173	87.22993
#1	2.368228	-.000398
#2	1.647137	.0832388
#3	1.063598	.0848153
Errors	QC Pass	QC Pass
Value	.0000000	.0000000
Range	10.00000	30.00000

Method: CLP-P4Z Sample Name: LRS Operator:
Run Time: 10/08/05 12:50:33
Comment: SDG:LRS ClientID:LRS 1:1
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	Ba4934	Be3130	Ca3179	Cd2265	Co2286
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	5.357693	108.5540	9.428610	5.297525	1067.793	5.481376	5.127700
SDev	.120896	7.6472	.228309	.160435	16.030	.364507	.295580
%RSD	2.256488	7.044579	2.421450	3.028489	1.501249	6.649922	5.764371
#1	5.489384	111.9293	9.306421	5.234042	1063.245	5.272187	4.884138
#2	5.251736	99.79990	9.287399	5.178545	1054.529	5.269670	5.456545
#3	5.331959	113.9328	9.692010	5.479987	1085.606	5.902270	5.042418
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7.500000	150.0000	15.00000	7.500000	1500.000	7.500000	7.500000
Low	2.500000	50.00000	5.000000	2.500000	500.0000	2.500000	2.500000

Elem	Cr2677	Cu3247	Fe2714	K 7664	Mg2790	Mn2576	Na3302
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	5.468065	4.482736	103.6903	777.7349	1184.079	10.38956	1958.032
SDev	.272272	.256581	6.7388	11.7498	23.179	.25049	8.460
%RSD	4.979304	5.723758	6.499004	1.510776	1.957560	2.410940	.4320898
#1	5.693782	4.768084	98.18708	780.4114	1176.758	10.49370	1967.015
#2	5.165679	4.409098	111.2061	764.8777	1165.444	10.10380	1956.866
#3	5.544733	4.271026	101.6776	787.9155	1210.034	10.57118	1950.215
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7.500000	7.500000	150.0000	1500.000	1500.000	15.00000	3000.000
Low	2.500000	2.500000	50.00000	500.0000	500.0000	5.000000	1000.000

Elem	Ni2316	Tl1908	V 2924	Zn2062	Pb2203	Se1960	Sb2068
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	5.998575	10.09997	19.75031	21.21406	4.326751	5.352104	10.81465
SDev	.347116	1.94752	.40452	.76148	.365753	.738759	1.60012
%RSD	5.786641	19.28246	2.048193	3.589484	8.453294	13.80314	14.79589
#1	5.994537	12.26792	19.90765	20.70020	3.930284	5.887074	11.46073
#2	5.653495	9.533501	19.29075	20.85308	4.398944	4.509189	11.99072
#3	6.347692	8.498478	20.05251	22.08889	H4.651024	5.660048	8.992496
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7.500000	15.00000	30.00000	30.00000	4.500000	7.500000	15.00000
Low	2.500000	5.000000	10.00000	10.00000	1.500000	2.500000	5.000000

Elem	As1890	22031	22032	19601	19602	Sn1899	Bi2230
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	10.19731	2.523407	5.223617	.0666165	7.987815	20.60562	51.94569
SDev	2.66718	1.616158	.259470	3.651246	.862966	1.15917	5.07119
%RSD	26.15573	64.04665	4.967243	5480.994	10.80353	5.625484	9.762476
#1	7.117517	.7937453	5.492752	1.458767	8.094841	19.77362	54.41472
#2	11.74150	2.781470	5.203062	-4.07591	8.792275	21.92964	46.11282
#3	11.73291	3.995007	4.975035	2.816994	7.076328	20.11360	55.30953
Errors	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High	15.00000					30.00000	75.00000
Low	5.000000					10.00000	25.00000

Elem	Mo2020	Ti3349
Units	ug/L	ug/L
Avge	5.927431	41.91371
SDev	.396946	.49768
%RSD	6.696759	1.187392
#1	5.578750	41.79659
#2	5.844124	41.48504
#3	6.359418	42.45951
Errors	LC Pass	LC Pass
High	7.500000	60.00000
Low	2.500000	20.00000

Method: CLP-P4Z Sample Name: 81092 PBW Operator:
R· Time: 10/08/05 12:59:55
(ient: SDG:7829 ClientID:PBW 1:1
M e: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	Ba4934	Be3130	Ca3179	Cd2265	Co2286
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-.669817	7.888939	.7256932	.1773258	7.408171	.0217259	.1115109
SDev	.913507	3.377873	.0032717	.0641638	.941808	.2510004	.2201435
%RSD	136.3815	42.81784	.4508450	36.18410	12.71309	1155.306	197.4189
#1	-1.68220	11.78782	.7235382	.2513919	6.415138	-.248309	-.049353
#2	.0928918	6.034694	.7294580	.1386652	8.288635	.2479132	.3623989
#3	-.420140	5.844301	.7240835	.1419204	7.520738	.0655737	.0214863
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10.00000	200.0000	200.0000	5.000000	1000.000	5.000000	50.00000
Low	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

Elem	Cr2677	Cu3247	Fe2714	K 7664	Mg2790	Mn2576	Na3302
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	1.177118	-1.07696	28.43454	3.902652	175.9014	.4964593	183.6588
SDev	.402770	.41452	14.62581	2.864159	1.6933	.1813302	81.1524
%RSD	34.21666	38.48998	51.43677	73.39008	.9626674	36.52470	44.18650
#1	.8376266	-.837637	22.22146	7.110269	174.7834	.2931781	276.9098
#2	1.622151	-.837637	45.14117	2.996555	177.8497	.6415536	145.0272
#3	1.071575	-1.55561	17.94099	1.601131	175.0712	.5546461	129.0394
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10.00000	25.00000	100.0000	1000.000	1000.000	15.00000	2000.000
Low	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

Elem	Ni2316	Tl1908	V 2924	Zn2062	Pb2203	Se1960	Sb2068
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	1.007941	-2.21416	.1955616	2.900451	1.453238	.1403663	2.866260
ev	.607264	.21769	.3074750	.665365	.260183	2.420117	.898677
SD	60.24800	9.831535	157.2267	22.94006	17.90369	1724.145	31.35365
#1	.3135199	-2.46540	-.113512	2.212872	1.684798	-2.42623	2.370621
#2	1.439439	-2.09544	.5014130	3.541119	1.171686	2.380951	2.324536
#3	1.270864	-2.08165	.1987835	2.947361	1.503231	.4663805	3.903622
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	40.00000	10.00000	50.00000	20.00000	3.000000	5.000000	60.00000
Low	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

Elem	As1890	22031	22032	19601	19602	Sn1899	Bi2230
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-2.82442	4.396440	-.019294	-7.65382	4.028477	.3320923	-1.48628
SDev	2.12247	2.088276	.693953	2.57970	4.902556	.8744498	2.08591
%RSD	75.14696	47.49926	3596.757	33.70473	121.6975	263.3153	140.3439
#1	-5.09135	6.686736	-.815573	-5.15688	-1.06611	.7785490	.7112750
#2	-2.49759	2.597988	.4564752	-10.3090	8.713280	-.675464	-3.43892
#3	-.884327	3.904595	.3012160	-7.49558	4.438260	.8931914	-1.73121
Errors	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High	10.00000					20.00000	10.00000
Low	-10.0000					-20.0000	-10.0000

Elem	Mo2020	Ti3349
Units	ug/L	ug/L
Avge	.6447588	.0726752
SDev	.8673112	.3747637
%RSD	134.5172	515.6695
#1	1.080431	-.359322
#2	1.207866	.2667295
#3	-.354020	.3106182
rrors	LC Pass	LC Pass
High	10.00000	30.00000
Low	-10.0000	-30.0000

Method: CLP-P4Z Sample Name: 81093 LCSW Operator:
Run Time: 10/08/05 13:07:03
Comment: SDG:7829 ClientID:LCSW 1:1
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	Ba4934	Be3130	Ca3179	Cd2265	Co2286
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	962.5912	19761.90	19769.36	508.5393	51643.82	497.4220	4824.634
SDev	6.6326	74.48	80.00	.9648	130.32	1.0876	17.433
%RSD	.6890411	.3768819	.4046415	.1897231	.2523455	.2186456	.3613402
#1	954.9606	19803.11	19850.19	507.7919	51519.93	496.3797	4811.153
#2	965.8379	19675.92	19767.66	508.1976	51631.80	497.3365	4818.428
#3	966.9750	19806.66	19690.23	509.6285	51779.74	498.5498	4844.321
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1200.000	24000.00	24000.00	600.0000	60000.00	600.0000	6000.000
Low	800.0000	16000.00	16000.00	400.0000	40000.00	400.0000	4000.000

Elem	Cr2677	Cu3247	Fe2714	K 7664	Mg2790	Mn2576	Na3302
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	992.0673	2435.764	10071.45	47204.48	48923.86	1473.568	49723.53
SDev	7.7788	10.408	67.78	133.41	350.63	12.690	53.49
%RSD	.7841027	.4273073	.6730395	.2826171	.7166874	.8611792	.1075786
#1	988.5060	2425.915	10037.81	47232.81	48774.95	1472.019	49778.61
#2	986.7067	2434.724	10027.06	47059.19	48672.27	1461.724	49671.78
#3	1000.989	2446.654	10149.48	47321.45	49324.38	1486.962	49720.20
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1200.000	3000.000	12000.00	60000.00	60000.00	1800.000	60000.00
Low	800.0000	2000.000	8000.000	40000.00	40000.00	1200.000	40000.00

Elem	Ni2316	Tl1908	V 2924	Zn2062	Pb2203	Se1960	Sb2068
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	3955.774	938.3649	4901.877	1952.365	293.0723	469.0255	6030.098
SDev	7.130	21.2982	31.276	9.475	2.5295	1.8011	16.88
%RSD	.1802310	2.269710	.6380434	.4853112	.8631136	.3840137	.279981
#1	3948.115	914.1643	4896.899	1941.624	290.3289	467.7147	6049.138
#2	3956.988	946.6755	4873.389	1955.934	295.3123	468.2826	6016.954
#3	3962.219	954.2548	4935.344	1959.538	293.5756	471.0793	6024.201
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	4800.000	1200.000	6000.000	2400.000	360.0000	600.0000	7200.000
Low	3200.000	800.0000	4000.000	1600.000	240.0000	400.0000	4800.000

Elem	As1890	22031	22032	19601	19602	Sn1899	Bi2230
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	964.4791	289.3645	294.9187	463.4711	471.7954	995.5139	1020.354
SDev	7.6413	4.4335	5.2813	2.2585	3.2169	4.9881	8.016
%RSD	.7922746	1.532165	1.790754	.4873018	.6818317	.5010628	.7856044
#1	956.6688	293.3390	288.8213	465.8887	468.6232	989.8192	1029.211
#2	964.8289	290.1717	297.8740	461.4154	471.7079	997.6137	1013.599
#3	971.9394	284.5828	298.0607	463.1093	475.0551	999.1089	1018.252
Errors	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High	1200.000					1205.000	1205.000
Low	800.0000					795.0000	795.0000

Elem	Mo2020	Ti3349
Units	ug/L	ug/L
Avge	987.6840	1022.792
SDev	7.1451	1.967
%RSD	.7234179	.1922695
#1	979.7409	1024.918
#2	993.5877	1022.421
#3	989.7233	1021.038
Errors	LC Pass	LC Pass
High	1205.000	1205.000
Low	795.0000	795.0000

Method: CLP-P4Z Sample Name: 782903 Operator:
Run Time: 10/08/05 13:14:10
Comment: SDG:7829 ClientID:ACSGWPWB26 1:1
Name: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	Ba4934	Be3130	Ca3179	Cd2265	Co2286
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-.341131	5.916881	112.2367	.1663197	82117.71	-.302004	-.144840
SDev	.588489	5.564065	1.3781	.1134740	521.34	.141937	.042584
%RSD	172.5110	94.03714	1.227837	68.22647	.6348736	46.99853	29.40050
#1	-1.01105	12.34112	113.7836	.2968551	82049.84	-.317154	-.156345
#2	-.104783	2.780140	111.1402	.1108870	81633.62	-.153099	-.180490
#3	.0924413	2.629382	111.7862	.0912169	82669.66	-.435758	-.097686
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	4000.000	600000.0	200000.0	5000.000	300000.0	10000.00	40000.00
Low	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

Elem	Cr2677	Cu3247	Fe2714	K 7664	Mg2790	Mn2576	Na3302
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	.5652390	3.902834	3596.468	1282.846	38570.69	60.59043	21347.62
SDev	.4636463	.407098	25.486	25.220	220.89	.74019	283.82
%RSD	82.02660	10.43082	.7086471	1.965974	.5726897	1.221627	1.329510
#1	.0377486	3.442594	3614.275	1311.886	38751.66	61.26983	21657.62
#2	.7497170	4.050111	3567.273	1270.213	38324.54	59.80163	21100.56
#3	.9082514	4.215796	3607.856	1266.439	38635.86	60.69983	21284.67
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	30000.00	50000.00	500000.0	600000.0	600000.0	10000.00	600000.0
Low	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

Elem	Ni2316	Tl1908	V 2924	Zn2062	Pb2203	Se1960	Sb2068
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	.5839784	.0501953	.2897296	8.924003	3.186884	.8620166	2.023024
SDev	.1817918	4.898791	.1240716	.261577	2.311646	1.781507	.338450
%RSD	31.12988	9759.462	42.82324	2.931164	72.53622	206.6674	16.72988
#1	.6124362	5.355661	.4281603	8.772312	1.548735	.9604029	2.401922
#2	.3896360	-4.30171	.1885539	8.773650	2.180841	-.966645	1.750655
#3	.7498630	-.903369	.2524745	9.226045	5.831077	2.592292	1.916496
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	30000.00	50000.00	40000.00	40000.00	50000.00	20000.00	10000.00
Low	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

Elem	As1890	22031	22032	19601	19602	Sn1899	Bi2230
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-1.71238	2.213791	3.669549	-8.53906	5.552354	-.977283	.2615994
SDev	1.13835	2.922238	3.742349	6.00332	1.516085	1.721890	2.516300
%RSD	66.47750	132.0015	101.9839	70.30430	27.30526	176.1915	961.8908
#1	-2.78945	4.850051	-.102655	-4.75591	3.811069	-1.18927	3.157033
#2	-1.82634	-.928366	3.729992	-15.4611	6.266602	.8407861	-.976079
#3	-.521334	2.719689	7.381311	-5.40014	6.579391	-2.58336	-1.39616
Errors	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High	20000.00					10000.00	10000.00
Low	-5.00000					-20.0000	-10.0000

Elem	Mo2020	Ti3349
Units	ug/L	ug/L
Avge	6.562106	-.694972
SDev	.715935	.209539
%RSD	10.91014	30.15072
#1	6.880566	-.905730
#2	5.742194	-.692515
#3	7.063557	-.486673
Errors	LC Pass	LC Pass
High	20000.00	10000.00
Low	-10.0000	-30.0000

Method: CLP-P4Z Sample Name: 81094 DUP Operator:
Run Time: 10/08/05 13:21:18
Comment: SDG:7829 ClientID:ACSGWPWB26D 1:1
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	Ba4934	Be3130	Ca3179	Cd2265	Co2286
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-.157437	4.770635	113.1683	.1575227	83805.95	-.016905	.0493119
SDev	.295712	6.358368	1.1179	.0353465	958.78	.170292	.1526029
%RSD	187.8286	133.2814	.9878212	22.43901	1.144044	1007.333	309.4644
#1	-.459452	11.87690	114.3252	.1840385	84656.26	.1356279	-.047693
#2	.1315396	2.815819	112.0940	.1173936	83994.79	-.200641	.2252120
#3	-.144398	-.380812	113.0857	.1711361	82766.80	.0142978	-.029583
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	4000.000	600000.0	200000.0	5000.000	300000.0	10000.00	40000.00
Low	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

Elem	Cr2677	Cu3247	Fe2714	K 7664	Mg2790	Mn2576	Na3302
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	.7844201	4.712856	3659.576	1288.726	38913.34	60.87348	21609.69
SDev	.2341594	.239148	45.589	21.740	456.97	.66581	380.88
%RSD	29.85128	5.074376	1.245748	1.686902	1.174336	1.093762	1.762529
#1	.9261357	4.850928	3697.521	1313.824	39275.87	61.36547	22049.06
#2	.9129818	4.850928	3672.202	1275.736	39064.12	61.13912	21406.88
#3	.5141427	4.436712	3609.004	1276.619	38400.03	60.11586	21373.13
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	30000.00	50000.00	500000.0	600000.0	600000.0	10000.00	600000.0
Low	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

Elem	Ni2316	Tl1908	V 2924	Zn2062	Pb2203	Se1960	Sb2068
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	.6908171	-2.06076	.1383332	9.193747	3.261294	-1.55908	3.100541
SDev	.1068186	2.59108	.1047280	.130529	.906999	1.92374	1.022367
%RSD	15.46265	125.7342	75.70705	1.419763	27.81101	123.3892	32.97375
#1	.8096178	.1593814	.2591669	9.046207	2.681521	-3.66096	4.202654
#2	.6026939	-1.43390	.0737494	9.294200	4.306524	.1142207	2.915872
#3	.6601394	-4.90775	.0820834	9.240833	2.795837	-1.13050	2.183098
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	30000.00	50000.00	40000.00	40000.00	50000.00	20000.00	10000.00
Low	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

Elem	As1890	22031	22032	19601	19602	Sn1899	Bi2230
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-.885843	4.320847	2.729019	-6.41570	.8624280	-.576842	-.125272
SDev	1.401212	2.874199	2.111452	5.27763	.9434344	1.569220	1.193669
%RSD	158.1783	66.51934	77.37035	82.26111	109.3928	272.0362	952.8627
#1	-.968950	7.316164	.3644653	-11.2262	.1127691	1.032435	.9740806
#2	-2.24365	4.060958	4.425973	-.770427	.5527306	-.660285	.0450609
#3	.5550725	1.585418	3.396618	-7.25050	1.921784	-2.10268	-1.39496
Errors	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High	20000.00					10000.00	10000.00
Low	-5.00000					-20.0000	-10.0000

Elem	Mo2020	Ti3349
Units	ug/L	ug/L
Avge	6.465049	-.834073
SDev	.560961	.237014
%RSD	8.676832	28.41640
#1	6.918994	-1.10759
#2	5.837916	-.689247
#3	6.638237	-.705378
Errors	LC Pass	LC Pass
High	20000.00	10000.00
Low	-10.0000	-30.0000

Method: CLP-P4Z Sample Name: 81095 MS Operator:
Run Time: 10/08/05 13:28:25
Comment: SDG:7829 ClientID:ACSGWPWB26S 1:1
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	Ba4934	Be3130	Ca3179	Cd2265	Co2286
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	47.64583	1995.915	2058.722	51.28135	83545.01	50.19668	487.9740
SDev	.98516	19.454	7.576	.38283	1111.28	.32350	2.5826
%RSD	2.067679	.9746917	.3680112	.7465243	1.330152	.6444606	.5292568
#1	46.50826	1975.978	2054.786	50.93756	82322.84	50.10846	487.0307
#2	48.21333	2014.847	2053.924	51.21258	83817.46	49.92644	485.9956
#3	48.21590	1996.919	2067.456	51.69389	84494.72	50.55513	490.8957
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	4000.000	600000.0	200000.0	5000.000	300000.0	10000.00	40000.00
Low	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

Elem	Cr2677	Cu3247	Fe2714	K 7664	Mg2790	Mn2576	Na3302
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	197.6125	248.7781	4721.984	1302.154	39098.80	559.0458	21645.63
SDev	1.4389	2.2611	44.740	11.579	247.70	2.0696	122.30
%RSD	.7281619	.9088699	.9474773	.8892047	.6335297	.3702082	.5650318
#1	196.5145	246.1731	4696.318	1315.147	38886.54	556.8144	21677.25
#2	197.0815	250.2324	4695.990	1298.385	39038.91	559.4205	21749.02
#3	199.2414	249.9287	4773.645	1292.929	39370.96	560.9025	21510.62
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	30000.00	50000.00	500000.0	600000.0	600000.0	10000.00	600000.0
Low	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

Elem	Ni2316	Tl1908	V 2924	Zn2062	Pb2203	Se1960	Sb2068
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	498.1511	43.63966	492.5733	498.1256	21.52671	6.996525	503.2588
SDev	3.1452	4.64940	3.6467	6.5744	.88324	3.328944	1.0381
%RSD	.6313673	10.65407	.7403426	1.319818	4.102978	47.57996	.2062821
#1	494.8982	44.39904	488.4430	491.9236	22.54310	8.497401	504.4570
#2	498.3791	38.65732	493.9285	497.4354	20.94548	3.181386	502.6903
#3	501.1762	47.86263	495.3484	505.0179	21.09156	9.310789	502.6291
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	30000.00	50000.00	40000.00	40000.00	50000.00	20000.00	10000.00
Low	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

Elem	As1890	22031	22032	19601	19602	Sn1899	Bi2230
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	35.36904	23.34035	20.61807	-.708793	10.84022	1005.352	1026.312
SDev	1.33724	2.83567	1.06244	6.343235	2.26136	9.344	3.406
%RSD	3.780817	12.14922	5.152959	894.9344	20.86085	.9293877	.3318467
#1	35.24505	25.43529	21.09595	-.245407	12.85904	1000.470	1027.747
#2	34.09813	20.11356	21.35765	-7.27101	8.396576	999.4611	1022.424
#3	36.76397	24.47220	19.40061	5.390041	11.26506	1016.125	1028.767
Errors	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High	20000.00					10000.00	10000.00
Low	-5.00000					-20.0000	-10.0000

Elem	Mo2020	Ti3349
Units	ug/L	ug/L
Avge	1008.664	1025.450
SDev	8.023	6.907
%RSD	.7953787	.6735184
#1	1002.512	1017.888
#2	1005.742	1027.036
#3	1017.738	1031.425
Errors	LC Pass	LC Pass
High	20000.00	10000.00
Low	-10.0000	-30.0000

Method: CLP-P4Z Sample Name: 81096 MSD Operator:
Run Time: 10/08/05 13:35:32
Comment: SDG:7829 ClientID:ACSGWPWB26SD 1:1
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	Ba4934	Be3130	Ca3179	Cd2265	Co2286
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	48.14844	1995.149	2036.208	51.41356	82402.50	50.03559	487.1926
SDev	.82161	16.551	12.118	.40337	484.73	.27453	4.2417
%RSD	1.706409	.8295599	.5951214	.7845514	.5882464	.5486596	.8706509
#1	47.42963	2013.908	2041.692	51.44645	82446.72	49.99347	488.5712
#2	47.97161	1982.606	2022.317	50.99476	81897.18	49.78456	482.4330
#3	49.04406	1988.934	2044.613	51.79948	82863.61	50.32874	490.5736
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	4000.000	600000.0	200000.0	5000.000	300000.0	10000.00	40000.00
Low	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

Elem	Cr2677	Cu3247	Fe2714	K 7664	Mg2790	Mn2576	Na3302
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	198.9367	249.1647	4657.516	1269.723	38456.18	558.5549	21181.71
SDev	1.2859	.1839	47.243	12.808	324.12	6.1730	210.40
%RSD	.6463916	.0737927	1.014346	1.008689	.8428296	1.105172	.9933081
#1	199.3032	249.2107	4665.698	1283.486	38530.32	560.0389	21322.64
#2	197.5073	248.9622	4606.716	1258.155	38101.41	551.7752	20939.86
#3	199.9996	249.3211	4700.134	1267.528	38736.80	563.8506	21282.62
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	30000.00	50000.00	500000.0	600000.0	600000.0	10000.00	600000.0
Low	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

Elem	Ni2316	Tl1908	V 2924	Zn2062	Pb2203	Se1960	Sb2068
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	500.3489	40.37314	494.3771	499.6702	22.30718	7.778425	498.1189
SDev	4.4960	4.52570	2.9135	4.9484	1.33977	1.839664	5.195
%RSD	.8985708	11.20967	.5893326	.9903265	6.006013	23.65086	1.042914
#1	496.2592	35.36943	496.5487	496.4330	20.86110	8.723330	500.7218
#2	499.6243	44.18041	491.0661	497.2113	23.50628	8.953615	492.1370
#3	505.1631	41.56958	495.5167	505.3664	22.55417	5.658328	501.4977
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	30000.00	50000.00	40000.00	40000.00	50000.00	20000.00	10000.00
Low	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

Elem	As1890	22031	22032	19601	19602	Sn1899	Bi2230
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	37.29068	21.75324	22.58057	-.329405	11.82309	1004.267	1033.773
SDev	1.21635	1.43640	2.19440	6.373988	.48156	7.502	11.504
%RSD	3.261803	6.603173	9.718106	1935.002	4.073079	.7469678	1.112798
#1	37.42984	22.48341	20.04798	2.427451	11.86336	1003.968	1034.053
#2	38.43146	22.67788	23.91672	4.202120	11.32266	996.9199	1022.132
#3	36.01073	20.09843	23.77702	-7.61778	12.28326	1011.914	1045.135
Errors	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High	20000.00					10000.00	10000.00
Low	-5.00000					-20.0000	-10.0000

Elem	Mo2020	Ti3349
Units	ug/L	ug/L
Avge	1009.658	1026.182
SDev	8.525	8.761
%RSD	.8443869	.8537840
#1	1001.081	1030.901
#2	1009.763	1016.072
#3	1018.130	1031.571
Errors	LC Pass	LC Pass
High	20000.00	10000.00
Low	-10.0000	-30.0000

Method: CLP-P4Z Sample Name: SDI782903 5X Operator:
Run Time: 10/08/05 13:42:40
Comment: SDG:7829 ClientID:ACSGWPWB26L 1:5
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	Ba4934	Be3130	Ca3179	Cd2265	Co2286
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	.4339904	10.77071	23.64419	.2958483	17882.93	.0218135	-.157750
SDev	.6503606	2.52292	.95801	.0143582	1008.02	.1981452	.219104
%RSD	149.8560	23.42392	4.051781	4.853248	5.636788	908.3613	138.8935
#1	1.156300	8.721574	24.36415	.3006307	18385.18	-.060176	-.156704
#2	-.105125	13.58858	22.55687	.3072050	16722.46	.2477942	-.377375
#3	.2507957	10.00198	24.01155	.2797091	18541.16	-.122178	.0608299
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	4000.000	600000.0	200000.0	5000.000	300000.0	10000.00	40000.00
Low	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

Elem	Cr2677	Cu3247	Fe2714	K 7664	Mg2790	Mn2576	Na3302
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	.6466306	.3129628	769.6703	247.3181	8485.353	13.20938	4651.583
SDev	.5993624	.2035489	24.3994	11.0038	406.363	.60115	220.565
%RSD	92.69008	65.03934	3.170110	4.449235	4.788998	4.550942	4.741728
#1	1.017919	.5430828	772.0250	253.0948	8679.032	13.45797	4734.071
#2	.9667966	.2393247	744.1789	234.6290	8018.381	12.52381	4401.662
#3	-.044824	.1564809	792.8070	254.2306	8758.645	13.64636	4819.015
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	30000.00	50000.00	500000.0	600000.0	600000.0	10000.00	600000.0
Low	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

Elem	Ni2316	Tl1908	V 2924	Zn2062	Pb2203	Se1960	Sb2068
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	.5283600	.6896710	.2033707	2.413394	2.138228	-1.20794	1.296716
SDev	.1971674	2.499513	.3617924	.365223	1.034717	3.68024	2.620606
%RSD	37.31687	362.4210	177.8980	15.13316	48.39135	304.6709	202.0956
#1	.3713270	2.029150	-.010757	2.527850	1.083682	L-5.45308	.4651804
#2	.7496367	-2.19409	-.000219	2.004651	3.151906	.7464293	-.807236
#3	.4641163	2.233957	.6210883	2.707680	2.179095	1.082828	4.232204
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	30000.00	50000.00	40000.00	40000.00	50000.00	20000.00	10000.00
Low	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

Elem	As1890	22031	22032	19601	19602	Sn1899	Bi2230
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	1.800627	1.384983	2.511106	1.428830	-2.52753	.9811513	-1.37455
SDev	2.210333	.962006	1.090347	3.271225	3.88531	2.765510	.42717
%RSD	122.7535	69.45978	43.42098	228.9442	153.7195	281.8637	31.07699
#1	3.993568	.3094344	1.466986	-2.34776	-7.00665	-2.09535	-1.06353
#2	-.426697	2.163283	3.642442	3.254189	-.508606	1.778180	-1.86160
#3	1.835011	1.682232	2.423891	3.380057	-.067327	3.260622	-1.19851
Errors	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High	20000.00					10000.00	10000.00
Low	-5.00000					-20.0000	-10.0000

Elem	Mo2020	Ti3349
Units	ug/L	ug/L
Avge	2.715593	.1887066
SDev	.778435	.1202961
%RSD	28.66536	63.74773
#1	3.514924	.3275152
#2	1.959890	.1147986
#3	2.671964	.1238059
Errors	LC Pass	LC Pass
High	20000.00	10000.00
Low	-10.0000	-30.0000

Method: CLP-P4Z Sample Name: PDS782903 Operator:
Run Time: 10/08/05 13:49:47
Comment: SDG:7829 ClientID:ACSGWPWB26A 1:1
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	Ba4934	Be3130	Ca3179	Cd2265	Co2286
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	19.32206	401.7326	485.7892	10.34853	82731.97	10.03885	98.45245
SDev	1.10647	5.0058	3.6358	.02611	882.96	.17170	1.79458
%RSD	5.726437	1.246054	.7484241	.2522917	1.067254	1.710391	1.822791
#1	18.04619	407.4934	489.3883	10.33108	81719.20	10.20782	96.43590
#2	19.90186	399.2623	482.1178	10.37854	83136.60	9.864533	99.87385
#3	20.01813	398.4420	485.8616	10.33596	83340.09	10.04421	99.04759
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	4000.000	600000.0	200000.0	5000.000	300000.0	10000.00	40000.00
Low	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

Elem	Cr2677	Cu3247	Fe2714	K 7664	Mg2790	Mn2576	Na3302
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	19.94884	52.48575	3854.394	1297.553	38892.36	90.72044	21786.94
SDev	.67627	.19330	56.409	21.104	418.69	1.08369	189.35
%RSD	3.390006	.3682904	1.463492	1.626453	1.076528	1.194541	.8691143
#1	19.16821	52.26484	3789.342	1317.075	38413.69	89.48472	21977.28
#2	20.35642	52.56860	3884.072	1300.424	39190.50	91.50901	21784.97
#3	20.32190	52.62382	3889.768	1275.161	39072.88	91.16757	21598.59
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	30000.00	50000.00	500000.0	600000.0	600000.0	10000.00	600000.0
Low	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

Elem	Ni2316	Tl1908	V 2924	Zn2062	Pb2203	Se1960	Sb2068
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	80.15094	14.29327	97.33768	48.03658	8.288590	8.797661	103.4640
SDev	.69630	1.70543	.80705	1.22420	1.801963	1.195968	3.541
%RSD	.8687382	11.93171	.8291202	2.548483	21.74028	13.59416	3.423006
#1	79.43246	15.56858	96.65617	46.63493	6.436534	9.052084	101.1202
#2	80.82271	14.95511	98.22887	48.57862	10.03589	9.845945	107.5381
#3	80.19765	12.35612	97.12799	48.89619	8.393350	7.494954	101.7338
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	30000.00	50000.00	40000.00	40000.00	50000.00	20000.00	10000.00
Low	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

Elem	As1890	22031	22032	19601	19602	Sn1899	Bi2230
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	19.58032	13.70315	5.581810	6.248063	10.06738	-.096193	2.891864
SDev	.99048	4.42209	3.363151	6.205057	1.31128	.737038	3.125263
%RSD	5.058531	32.27061	60.25197	99.31169	13.02506	766.2048	108.0709
#1	18.48933	15.69582	1.810243	7.953959	9.597134	.7170337	3.790421
#2	19.82861	16.77828	6.666193	11.42174	9.056069	-.285503	5.469419
#3	20.42304	8.635346	8.268995	-.631507	11.54895	-.720111	-.584247
Errors	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High	20000.00					10000.00	10000.00
Low	-5.00000					-20.0000	-10.0000

Elem	Mo2020	Ti3349
Units	ug/L	ug/L
Avge	6.662485	-.780011
SDev	.652322	.429152
%RSD	9.790976	55.01870
#1	7.306202	-1.25661
#2	6.679368	-.659231
#3	6.001885	-.424190
Errors	LC Pass	LC Pass
High	20000.00	10000.00
Low	-10.0000	-30.0000

Method: CLP-P4Z Sample Name: 782901 Operator:
Time: 10/08/05 13:56:54
ment: SDG:7829 ClientID:ACSGWPWA26 1:1
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	Ba4934	Be3130	Ca3179	Cd2265	Co2286
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-.222615	7.421697	113.1868	.1536553	80260.68	.0815744	.1365778
SDev	.684110	7.631937	.5617	.0597987	701.37	.1261471	.2245876
%RSD	307.3057	102.8328	.4962807	38.91745	.8738641	154.6405	164.4393
#1	-.971993	-.913949	113.4750	.2135145	79873.45	.2027794	-.086241
#2	.3684778	9.112784	112.5395	.1535341	79838.30	-.048993	.1330803
#3	-.064331	14.06625	113.5460	.0939172	81070.30	.0909367	.3628936
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	4000.000	600000.0	200000.0	5000.000	300000.0	10000.00	40000.00
Low	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

Elem	Cr2677	Cu3247	Fe2714	K 7664	Mg2790	Mn2576	Na3302
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	.7817789	-.874456	1880.270	1627.873	40954.64	32.53017	21427.87
SDev	.5371522	.522002	15.496	14.739	208.35	.18362	257.81
%RSD	68.70896	59.69447	.8241461	.9053988	.5087357	.5644621	1.203176
#1	.3623790	-1.27947	1862.872	1644.606	40812.32	32.62116	21649.73
#2	.5957387	-1.05855	1885.349	1616.814	40857.80	32.31882	21145.03
#3	1.387219	-.285349	1892.590	1622.200	41193.78	32.65052	21488.84
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	30000.00	50000.00	500000.0	600000.0	600000.0	10000.00	600000.0
Low	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

Elem	Ni2316	Tl1908	V 2924	Zn2062	Pb2203	Se1960	Sb2068
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	1.323382	-2.51332	.4281003	2.865151	1.286318	-.815466	4.352627
SDev	.066735	1.55700	.2879656	.187886	.360038	2.828277	.645209
%RSD	5.042759	61.94971	67.26592	6.557617	27.98983	346.8293	14.82343
#1	1.300311	-.730751	.2274008	2.668649	1.580205	-.898789	3.869912
#2	1.398591	-3.60726	.2988548	2.883770	.8847171	-3.60116	4.102523
#3	1.271244	-3.20196	.7580453	3.043034	1.394032	2.053551	5.085445
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	30000.00	50000.00	40000.00	40000.00	50000.00	20000.00	10000.00
Low	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

Elem	As1890	22031	22032	19601	19602	Sn1899	Bi2230
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	2.339654	3.534804	.1606210	-6.13934	1.839341	-.409034	-1.02098
SDev	1.335860	1.504119	.7514754	4.10280	4.840579	.259464	2.54531
%RSD	57.09646	42.55169	467.8561	66.82806	263.1692	63.43354	249.2998
#1	1.152236	5.121685	-.191045	-10.8542	4.068281	-.560502	.8046780
#2	2.080692	3.352697	-.350542	-3.38106	-3.71417	-.109436	-3.92852
#3	3.786036	2.130030	1.023450	-4.18278	5.163910	-.557162	.0608858
Errors	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High	20000.00					10000.00	10000.00
Low	-5.00000					-20.0000	-10.0000

Elem	Mo2020	Ti3349
Units	ug/L	ug/L
Avge	7.146477	-.624956
SDev	.394823	.230342
%RSD	5.524729	36.85739
#1	7.565677	-.880491
#2	6.781670	-.561095
#3	7.092083	-.433282
Errors	LC Pass	LC Pass
High	20000.00	10000.00
Low	-10.0000	-30.0000

Method: CLP-P4Z Sample Name: CCV Operator:
Run Time: 10/08/05 14:04:02
Comment: CCV CVS1
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	Ba4934	Be3130	Ca3179	Cd2265	Co2286
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	100.0977	49960.71	945.5287	997.0160	51509.25	1013.041	984.3784
SDev	.4822	226.53	9.6265	7.4441	320.93	3.351	4.1273
%RSD	.4817694	.4534080	1.018111	.7466342	.6230523	.3307560	.4192759
#1	100.2281	49938.70	938.3307	988.6986	51175.03	1009.413	980.7815
#2	99.56371	50197.44	956.4634	1003.053	51814.99	1016.019	988.8844
#3	100.5014	49745.99	941.7922	999.2963	51537.73	1013.691	983.4691
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	100.0000	50000.00	1000.000	1000.000	50000.00	1000.000	1000.000
Range	10.40000	5200.000	104.0000	104.0000	5200.000	104.0000	104.0000

Elem	Cr2677	Cu3247	Fe2714	K 7664	Mg2790	Mn2576	Na3302
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	981.4853	994.4955	4969.217	51549.47	49764.57	985.8842	51086.14
SDev	2.4940	5.1901	15.428	265.29	126.93	1.5979	350.96
%RSD	.2541013	.5218840	.3104762	.5146313	.2550699	.1620742	.6870037
#1	979.5121	999.4661	4964.066	51459.60	49712.03	984.8390	51415.04
#2	984.2884	994.9097	4986.561	51848.02	49909.34	987.7235	51126.75
#3	980.6553	989.1107	4957.023	51340.79	49672.35	985.0900	50716.64
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1000.000	1000.000	5000.000	50000.00	50000.00	1000.000	50000.00
Range	104.0000	104.0000	520.0000	5200.000	5200.000	104.0000	5200.000

Elem	Ni2316	Tl1908	V 2924	Zn2062	Pb2203	Se1960	Sb2068
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	1001.436	954.9846	961.5028	989.2084	998.8843	1003.858	1030.626
SDev	5.811	43.6631	2.3854	5.6942	5.5080	7.482	12.82
%RSD	.5803049	4.572123	.2480935	.5756359	.5514194	.7452897	1.244065
#1	996.7828	904.6609	960.9385	984.6547	992.5960	996.6918	1016.824
#2	1007.950	982.8126	964.1197	995.5928	1002.854	1003.263	1042.166
#3	999.5762	977.4804	959.4501	987.3776	1001.204	1011.620	1032.889
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1000.000	1000.000	1000.000	1000.000	1000.000	1000.000	1000.000
Range	104.0000	104.0000	104.0000	104.0000	104.0000	104.0000	104.0000

Elem	As1890	22031	22032	19601	19602	Sn1899	Bi2230
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	992.4185	977.6404	1009.487	1010.607	1000.485	1017.494	983.0527
SDev	9.6609	1.3496	8.051	8.583	6.932	7.758	3.8485
%RSD	.9734686	.1380466	.7975211	.8492683	.6928842	.7625018	.3914842
#1	991.3891	976.8904	1000.433	1002.443	993.8176	1009.812	980.4731
#2	1002.553	976.8324	1015.841	1009.824	999.9838	1025.327	987.4762
#3	983.3136	979.1984	1012.187	1019.555	1007.655	1017.342	981.2087
Errors	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value	1000.000					1000.000	1000.000
Range	104.0000					104.0000	104.0000

Elem	Mo2020	Ti3349
Units	ug/L	ug/L
Avge	989.4396	1003.615
SDev	13.8835	3.035
%RSD	1.403169	.3024500
#1	975.2343	1000.692
#2	1002.977	1003.403
#3	990.1074	1006.751
Errors	QC Pass	QC Pass
Value	1000.000	1000.000
Range	104.0000	104.0000

Method: CLP-P4Z Sample Name: CCB Operator:
Run Time: 10/08/05 14:11:11
Comment: CCB
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	Ba4934	Be3130	Ca3179	Cd2265	Co2286
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-.196903	17.00141	.7076086	.3629008	119.0036	.3896045	.1141950
SDev	.514787	5.61708	.0602559	.1036225	4.2796	.0344808	.1844953
%RSD	261.4417	33.03892	8.515431	28.55395	3.596154	8.850201	161.5616
#1	.2104451	23.42186	.7650788	.4825533	117.2132	.4062813	.2144175
#2	-.775485	14.58804	.6449080	.3027853	115.9099	.3499558	-.098720
#3	-.025669	12.99433	.7128390	.3033639	123.8875	.4125764	.2268877
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	10.00000	200.0000	200.0000	5.000000	1000.000	5.000000	50.00000

Elem	Cr2677	Cu3247	Fe2714	K 7664	Mg2790	Mn2576	Na3302
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	.6215137	-.607517	-1.32060	5.529984	180.9657	.3133778	-44.0133
SDev	.7009562	.422720	8.04339	2.857368	3.2752	.1040844	50.5908
%RSD	112.7821	69.58158	609.0699	51.67046	1.809840	33.21372	114.9445
#1	1.134653	-.865252	3.352212	8.363159	183.3491	.3716404	14.40243
#2	-.177140	-.837637	-10.6082	2.649022	177.2311	.1932099	-72.8538
#3	.9070280	-.119663	3.294230	5.577770	182.3169	.3752832	-73.5885
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	10.00000	25.00000	100.0000	1000.000	1000.000	15.00000	2000.000

Elem	Ni2316	Tl1908	V 2924	Zn2062	Pb2203	Se1960	Sb2068
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	.4555291	4.197228	.1137875	2.476337	-.555066	-.055339	3.223929
SDev	.2680607	2.412596	.2214328	.636994	1.083200	1.103523	2.426274
%RSD	58.84601	57.48071	194.6020	25.72321	195.1479	1994.125	75.25832
#1	.7186646	1.665039	.1079825	3.029229	.5755869	1.204493	3.714738
#2	.4651223	4.457523	-.104686	1.779780	-.657208	-.850725	.5897718
#3	.1828006	6.469123	.3380657	2.620004	-1.58358	-.519784	5.367276
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	40.00000	10.00000	50.00000	20.00000	200.0000	5.000000	60.00000

Elem	As1890	22031	22032	19601	19602	Sn1899	Bi2230
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-.975648	-1.12740	-.272396	-1.72423	.7747890	-.077975	-2.72610
SDev	1.171703	1.77636	1.958965	4.10610	1.727987	.579270	3.10218
%RSD	120.0949	157.5622	719.1616	238.1408	223.0268	742.8888	113.7956
#1	-.616891	-2.26174	1.989041	1.585656	1.011116	.5185494	.7759929
#2	-2.28479	.9197682	-1.44753	-.439189	-1.05920	-.114183	-3.82520
#3	-.025265	-2.04023	-1.35870	-6.31916	2.372449	-.638293	-5.12909
Errors	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value	.0000000					.0000000	.0000000
Range	10.00000					20.00000	10.00000

Elem	Mo2020	Ti3349
Units	ug/L	ug/L
Avge	1.907329	.1301766
SDev	.758508	.1343147
%RSD	39.76805	103.1789
#1	2.395415	.1788566
#2	1.033474	-.021690
#3	2.293098	.2333636
Errors	QC Pass	QC Pass
Value	.0000000	.0000000
Range	10.00000	30.00000

Method: CLP-P4Z Sample Name: 782902 Operator:
Run Time: 10/08/05 14:18:19
Comment: SDG:7829 ClientID:ACSGWPWDUP1 1:1
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	Ba4934	Be3130	Ca3179	Cd2265	Co2286
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-.643418	7.943992	109.2420	.1655649	77889.01	.1933142	.1411967
SDev	.857853	5.472107	.1704	.0628451	264.93	.0991594	.4485420
%RSD	133.3275	68.88359	.1560102	37.95798	.3401405	51.29440	317.6716
#1	-1.60195	8.204528	109.3339	.2299671	77655.79	.3040774	.6553648
#2	-.380533	2.346271	109.0454	.1044023	78177.07	.1630570	-.061912
#3	.0522310	13.28118	109.3468	.1623252	77834.17	.1128084	-.169862
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	4000.000	600000.0	200000.0	5000.000	300000.0	10000.00	40000.00
Low	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

Elem	Cr2677	Cu3247	Fe2714	K 7664	Mg2790	Mn2576	Na3302
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	.8353836	-.625927	1812.282	1585.212	39545.55	31.38229	20902.87
SDev	.3130795	.111602	18.920	16.282	90.11	.06937	286.50
%RSD	37.47733	17.82992	1.043994	1.027119	.2278716	.2210614	1.370636
#1	.5229942	-.727179	1790.504	1604.008	39505.57	31.46221	21232.49
#2	.8340080	-.644337	1824.676	1576.185	39648.74	31.34717	20762.38
#3	1.149149	-.506264	1821.667	1575.444	39482.35	31.33750	20713.72
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	30000.00	50000.00	500000.0	600000.0	600000.0	10000.00	600000.0
Low	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

Elem	Ni2316	Tl1908	V 2924	Zn2062	Pb2203	Se1960	Sb2068
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	.6118931	-1.35234	.2582143	2.915602	1.126967	.4939196	3.260328
SDev	.9899024	3.95915	.4215110	.412270	1.022184	3.845052	2.129531
%RSD	161.7770	292.7623	163.2408	14.14012	90.70226	778.4774	65.31653
#1	1.199777	3.078016	.6566325	2.470675	1.551498	-3.91783	3.657208
#2	1.166893	-2.59089	.3011181	3.284682	1.868478	3.131972	5.163501
#3	-.530990	-4.54416	-.183108	2.991448	-.039076	2.267617	.9602753
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	30000.00	50000.00	40000.00	40000.00	50000.00	20000.00	10000.00
Low	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

Elem	As1890	22031	22032	19601	19602	Sn1899	Bi2230
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-.375075	4.263358	-.442025	-4.39404	2.931086	.0137320	-.344602
SDev	2.062246	3.525684	2.075189	7.06886	2.292050	.7151836	3.928277
%RSD	549.8228	82.69734	469.4735	160.8740	78.19798	5208.165	1139.945
#1	-1.51205	8.285718	-1.81374	-12.3511	.2893051	-.071708	3.995926
#2	2.005407	1.708202	1.945364	1.160148	4.113274	.7677975	-1.37416
#3	-1.61858	2.796153	-1.45770	-1.99116	4.390680	-.654894	-3.65558
Errors	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High	20000.00					10000.00	10000.00
Low	-5.00000					-20.0000	-10.0000

Elem	Mo2020	Ti3349
Units	ug/L	ug/L
Avge	7.168012	-.850639
SDev	.475282	.237801
%RSD	6.630591	27.95562
#1	6.724725	-1.11793
#2	7.109449	-.662518
#3	7.669861	-.771473
Errors	LC Pass	LC Pass
High	20000.00	10000.00
Low	-10.0000	-30.0000

Method: CLP-P4Z Sample Name: 782904 Operator:
Run Time: 10/08/05 14:25:27
Comment: SDG:7829 ClientID:ACSGWPWT26 1:1
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	Ba4934	Be3130	Ca3179	Cd2265	Co2286
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-.722492	6.120156	126.8733	.2169584	85755.14	-.135435	.4198491
SDev	.163991	2.699133	1.1833	.0548391	653.30	.105579	.6265941
%RSD	22.69792	44.10236	.9326342	25.27630	.7618199	77.95541	149.2427
#1	-.853188	9.148540	127.6668	.2801604	85498.08	-.028925	1.137536
#2	-.538477	5.243916	125.5133	.1819725	85269.47	-.137324	.1404637
#3	-.775810	3.968011	127.4399	.1887424	86497.87	-.240058	-.018453
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	4000.000	600000.0	200000.0	5000.000	300000.0	10000.00	40000.00
Low	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

Elem	Cr2677	Cu3247	Fe2714	K 7664	Mg2790	Mn2576	Na3302
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	.6751784	.0920475	2180.906	1774.825	45469.54	32.20668	18957.02
SDev	.2044424	.5357001	34.119	16.178	670.55	.38743	151.06
%RSD	30.27976	581.9825	1.564419	.9115385	1.474733	1.202935	.7968434
#1	.5211615	-.174892	2154.376	1787.612	45218.32	31.99696	18936.07
#2	.9071248	.7087687	2168.948	1756.637	44960.88	31.96932	18817.53
#3	.5972487	-.257735	2219.394	1780.225	46229.43	32.65375	19117.46
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	30000.00	50000.00	500000.0	600000.0	600000.0	10000.00	600000.0
Low	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

Elem	Ni2316	Tl1908	V 2924	Zn2062	Pb2203	Se1960	Sb2068
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	.7063460	-1.68150	.1335078	21.78048	1.532315	4.482680	3.743057
SDev	.1352979	1.07383	.4056594	.01471	.153212	4.225544	1.169415
%RSD	19.15462	63.86135	303.8469	.0675482	9.998743	94.26380	31.24225
#1	.5686349	-.518189	.5257443	21.76436	1.709138	1.580422	2.392831
#2	.8390942	-2.63483	.1591382	21.79318	1.438981	2.537060	4.432309
#3	.7113090	-1.89149	-.284359	21.78389	1.448827	9.330558	4.404030
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	30000.00	50000.00	40000.00	40000.00	50000.00	20000.00	10000.00
Low	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

Elem	As1890	22031	22032	19601	19602	Sn1899	Bi2230
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	2.840648	1.873281	1.358558	-5.07795	9.252692	.4570126	.6564763
SDev	2.889502	2.753238	1.215246	6.52077	3.361641	2.012136	1.758860
%RSD	101.7199	146.9741	89.45114	128.4133	36.33149	440.2803	267.9243
#1	2.092805	4.283954	.4201006	-7.58312	6.152161	2.295598	2.217448
#2	.3985829	2.462886	.9242963	-9.97464	8.780419	-1.69248	1.001208
#3	6.030554	-1.12700	2.731278	2.323901	12.82550	.7679220	-1.24923
Errors	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High	20000.00					10000.00	10000.00
Low	-5.00000					-20.0000	-10.0000

Elem	Mo2020	Ti3349
Units	ug/L	ug/L
Avge	10.28989	-.865739
SDev	.39108	.292143
%RSD	3.800625	33.74491
#1	10.24161	-.924967
#2	9.925196	-.548520
3	10.70287	-1.12373
Errors	LC Pass	LC Pass
High	20000.00	10000.00
Low	-10.0000	-30.0000

Method: CLP-P4Z Sample Name: 782905 Operator:
Run Time: 10/08/05 14:32:34
Comment: SDG:7829 ClientID:ACSGWPWT26 1:1
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	Ba4934	Be3130	Ca3179	Cd2265	Co2286
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-.683159	6.463273	124.9238	.1763827	79586.02	-.059525	-.258740
SDev	.159294	1.431565	1.3301	.0662674	126.81	.113744	.490126
%RSD	23.31718	22.14922	1.064739	37.57024	.1593329	191.0849	189.4281
#1	-.656453	6.548023	125.8895	.2418186	79706.94	.0681499	.2955428
#2	-.854118	4.991217	125.4753	.1780154	79597.06	-.096680	-.436879
#3	-.538907	7.850581	123.4067	.1093140	79454.05	-.150046	-.634883
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	4000.000	600000.0	200000.0	5000.000	300000.0	10000.00	40000.00
Low	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

Elem	Cr2677	Cu3247	Fe2714	K 7664	Mg2790	Mn2576	Na3302
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	.5964810	-1.10458	2157.573	1645.124	43124.99	30.13399	17009.92
SDev	.2718507	.21449	13.725	23.892	203.88	.12209	215.21
%RSD	45.57576	19.41861	.6361260	1.452296	.4727603	.4051480	1.265178
#1	.2826030	-.865252	2158.943	1670.173	43350.77	30.18642	17215.05
#2	.7570612	-1.27947	2170.561	1642.613	43069.85	30.22111	17028.82
#3	.7497788	-1.16901	2143.214	1622.587	42954.35	29.99445	16785.88
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	30000.00	50000.00	500000.0	600000.0	600000.0	10000.00	600000.0
Low	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

Elem	Ni2316	Tl1908	V 2924	Zn2062	Pb2203	Se1960	Sb2068
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	1.751838	-3.22220	.1058659	.3881669	1.438734	-.224157	3.450084
SDev	.193621	1.84370	.2001877	.0977087	1.477910	4.967718	1.302767
%RSD	11.05247	57.21859	189.0956	25.17182	102.7229	2216.176	37.76035
#1	1.892254	-4.26075	.3188549	.3692966	2.266271	-3.22789	4.737668
#2	1.530959	-4.31237	.0771651	.4939344	2.317484	5.509897	3.479930
#3	1.832299	-1.09349	-.078422	.3012698	-.267553	-2.95448	2.132654
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	30000.00	50000.00	40000.00	40000.00	50000.00	20000.00	10000.00
Low	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

Elem	As1890	22031	22032	19601	19602	Sn1899	Bi2230
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-1.47417	3.443048	.4349399	-7.49301	3.401680	-.543898	-1.45750
SDev	4.31192	1.433554	1.791461	7.71090	4.180841	1.035183	1.02624
%RSD	292.4980	41.63619	411.8871	102.9079	122.9052	190.3267	70.41074
#1	.5295384	5.040287	.8781681	-8.83118	-.433624	-.589949	-.534473
#2	L-6.42338	3.020859	1.963181	.7993897	7.858478	-1.55529	-1.27545
#3	1.471320	2.267999	-1.53653	-14.4472	2.780186	.5135420	-2.56258
Errors	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High	20000.00					10000.00	10000.00
Low	-5.00000					-20.0000	-10.0000

Elem	Mo2020	Ti3349
Units	ug/L	ug/L
Avge	7.198772	-.950964
SDev	1.010324	.243303
%RSD	14.03467	25.58490
#1	6.113488	-1.13891
#2	8.112053	-1.03784
#3	7.370776	-.676149
Errors	LC Pass	LC Pass
High	20000.00	10000.00
Low	-10.0000	-30.0000

Method: CLP-P4Z Sample Name: 782907 Operator:
R Time: 10/08/05 14:39:42
C ient: SDG:7829 ClientID:ACSGWPWD26 1:1
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	Ba4934	Be3130	Ca3179	Cd2265	Co2286
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-.512303	4.719049	124.6720	.1978865	84859.31	-.044538	-.420141
SDev	.775291	5.502758	1.4930	.0849067	762.99	.358176	.560797
%RSD	151.3346	116.6073	1.197579	42.90679	.8991187	804.2116	133.4783
#1	-1.40639	9.000874	125.8647	.2873507	84355.11	-.412387	-.914661
#2	-.104432	-1.48755	125.1538	.1184230	85737.10	-.024337	.1891700
#3	-.026088	6.643824	122.9975	.1878857	84485.73	.3031110	-.534932
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	4000.000	600000.0	200000.0	5000.000	300000.0	10000.00	40000.00
Low	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

Elem	Cr2677	Cu3247	Fe2714	K 7664	Mg2790	Mn2576	Na3302
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	.6735174	2.190741	1696.781	1673.594	44007.53	28.66303	18277.69
SDev	.6909993	.662937	25.587	23.926	309.37	.30747	187.26
%RSD	102.5956	30.26085	1.507988	1.429594	.7029887	1.072690	1.024547
#1	-.124375	1.426743	1667.821	1700.750	43968.05	28.58091	18490.65
#2	1.074934	2.614162	1716.329	1664.417	44334.75	29.00322	18138.73
#3	1.069993	2.531319	1706.192	1655.616	43719.80	28.40496	18203.69
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	30000.00	50000.00	500000.0	600000.0	600000.0	10000.00	600000.0
Low	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

Elem	Ni2316	Tl1908	V 2924	Zn2062	Pb2203	Se1960	Sb2068
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	.9133301	-4.75582	.0999165	10.00693	1.819070	.3358101	1.189679
SDev	.2109505	2.19263	.2863839	.20235	.310051	1.894151	1.037872
%RSD	23.09685	46.10407	286.6234	2.022069	17.04447	564.0541	87.23969
#1	.7186646	-5.70181	-.189821	9.823593	1.784958	2.431756	1.051993
#2	1.137466	-6.31665	.3828252	9.973167	2.144766	-1.25352	2.289521
#3	.8838593	-2.24900	.1067447	10.22404	1.527486	-.170809	.2275220
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	30000.00	50000.00	40000.00	40000.00	50000.00	20000.00	10000.00
Low	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

Elem	As1890	22031	22032	19601	19602	Sn1899	Bi2230
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-1.19060	4.911762	.2717384	-4.96916	2.981144	-1.10349	-1.51604
SDev	3.30091	4.329419	2.028365	7.33679	2.194682	.14077	1.75052
%RSD	277.2467	88.14390	746.4402	147.6466	73.61878	12.75689	115.4669
#1	-4.34139	9.321151	-1.98071	2.983443	2.153102	-1.06354	-.483863
#2	2.242319	4.747125	.8419876	-6.41649	1.320945	-1.25992	-.527035
#3	-1.47274	.6670105	1.953941	-11.4744	5.469386	-.987010	-3.53721
Errors	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High	20000.00					10000.00	10000.00
Low	-5.00000					-20.0000	-10.0000

Elem	Mo2020	Ti3349
Units	ug/L	ug/L
Avge	9.224839	-1.26997
SDev	.138932	.34196
%RSD	1.506062	26.92626
#1	9.158438	-1.65419
#2	9.384512	-.999011
#3	9.131568	-1.15672
Errors	LC Pass	LC Pass
High	20000.00	10000.00
Low	-10.0000	-30.0000

Method: CLP-P4Z Sample Name: 123123 Operator:
Run Time: 10/08/05 14:46:50
Comment: SDG: ClientID: 1:1
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	Ba4934	Be3130	Ca3179	Cd2265	Co2286
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	1.481232	23337.04	1229.170	1.979040	207941.9	6.377219	248.5601
SDev	.240796	349.48	6.682	.042166	2235.9	.584807	2.6711
%RSD	16.25648	1.497536	.5435892	2.130604	1.075268	9.170247	1.074638
#1	1.600405	23441.42	1221.589	1.940242	209037.0	6.562376	245.7733
#2	1.639202	23622.44	1234.203	1.972965	209419.1	5.722247	251.0981
#3	1.204088	22947.26	1231.717	2.023914	205369.5	6.847035	248.8091
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	4000.000	600000.0	200000.0	5000.000	300000.0	10000.00	40000.00
Low	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

Elem	Cr2677	Cu3247	Fe2714	K 7664	Mg2790	Mn2576	Na3302
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	51.08128	2322.242	58405.10	3824.363	80171.88	1078.474	2219.056
SDev	.08062	11.422	381.91	27.525	376.91	10.680	141.236
%RSD	.1578273	.4918324	.6538955	.7197329	.4701239	.9902929	6.364676
#1	51.02340	2312.917	57968.48	3805.866	79817.41	1066.171	2360.616
#2	51.17337	2334.981	58677.01	3855.995	80567.80	1085.360	2218.406
#3	51.04708	2318.826	58569.82	3811.227	80130.45	1083.892	2078.146
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	30000.00	50000.00	500000.0	600000.0	600000.0	10000.00	600000.0
Low	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

Elem	Ni2316	Tl1908	V 2924	Zn2062	Pb2203	Se1960	Sb2068
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	108.5082	L-10.7672	48.79990	2838.475	42545.94	.8871701	-58.0532
SDev	.3938	2.7353	.59547	20.914	157.34	.3920561	3.3839
%RSD	.3629273	25.40410	1.220224	.7368081	.3698193	44.19176	5.829033
#1	108.1532	L-10.1250	49.30156	2818.757	42446.16	.7849454	-54.1572
#2	108.4397	-8.41012	48.95630	2860.409	42727.32	1.320213	-59.7430
#3	108.9318	L-13.7665	48.14184	2836.258	42464.35	.5563524	L-60.2596
Errors	LC Pass	LC Low	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	30000.00	50000.00	40000.00	40000.00	50000.00	20000.00	10000.00
Low	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

Elem	As1890	22031	22032	19601	19602	Sn1899	Bi2230
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	17.87703	42001.39	42817.81	-7.53240	5.087513	H21338.23	31.79412
SDev	1.04508	319.55	130.27	2.06317	1.473554	150.27	.42154
%RSD	5.845933	.7608045	.3042506	27.39060	28.96413	.7042451	1.325854
#1	18.62771	41990.16	42673.81	-5.39343	3.866367	H21187.42	31.82451
#2	16.68343	42326.40	42927.48	-9.51033	6.724226	H21487.96	31.35820
#3	18.31994	41687.60	42852.13	-7.69343	4.671946	H21339.31	32.19965
Errors	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC High	LC Pass
High	20000.00					10000.00	10000.00
Low	-5.00000					-20.0000	-10.0000

Elem	Mo2020	Ti3349
Units	ug/L	ug/L
Avge	6.101821	635.7763
SDev	.109341	7.3718
%RSD	1.791934	1.159497
#1	6.032002	638.9562
#2	6.045630	641.0244
#3	6.227832	627.3482
Errors	LC Pass	LC Pass
High	20000.00	10000.00
Low	-10.0000	-30.0000

Method: CLP-P4Z Sample Name: CCV Operator:
Run Time: 10/08/05 14:53:58
Comment: CCV CVS1
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	Ba4934	Be3130	Ca3179	Cd2265	Co2286
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	99.69190	49291.17	925.5053	982.1102	50840.80	1002.379	970.4901
SDev	1.22312	1864.49	30.4256	32.2610	1675.98	33.075	29.0695
%RSD	1.226902	3.782602	3.287460	3.284862	3.296528	3.299690	2.995342
#1	100.5239	51013.71	949.9109	1009.149	52348.61	1027.004	992.6358
#2	100.2642	49548.36	935.1884	990.7817	51137.51	1015.348	981.2624
#3	98.28754	47311.44	Q891.4166	946.3997	49036.28	964.7841	937.5721
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	100.0000	50000.00	1000.000	1000.000	50000.00	1000.000	1000.000
Range	10.40000	5200.000	104.0000	104.0000	5200.000	104.0000	104.0000

Elem	Cr2677	Cu3247	Fe2714	K 7664	Mg2790	Mn2576	Na3302
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	969.8549	991.5868	4903.301	51020.52	49139.18	973.9848	50662.17
SDev	29.2794	9.4228	144.081	1530.23	1512.26	27.8745	1661.78
%RSD	3.018943	.9502779	2.938444	2.999234	3.077501	2.861898	3.280118
#1	988.9537	1001.924	4997.737	52271.47	50177.61	992.0183	52110.04
#2	984.4656	989.3592	4974.702	51475.76	49835.77	988.0565	51028.76
#3	936.1454	983.4774	4737.463	49314.34	47404.17	941.8795	48847.70
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1000.000	1000.000	5000.000	50000.00	50000.00	1000.000	50000.00
Range	104.0000	104.0000	520.0000	5200.000	5200.000	104.0000	5200.000

Elem	Ni2316	Tl1908	V 2924	Zn2062	Pb2203	Se1960	Sb2068
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	987.4626	948.8237	947.8220	977.4938	994.1812	995.8638	1012.822
SDev	34.3939	21.5809	31.2871	30.8036	27.5197	33.2740	35.923
RSD	3.483054	2.274486	3.300946	3.151283	2.768080	3.341222	3.546835
#1	1010.673	941.9296	971.8958	1000.429	1016.120	1026.106	1037.367
#2	1003.766	973.0092	959.1136	989.5707	1003.121	1001.266	1029.509
#3	947.9487	931.5321	912.4565	942.4816	963.3031	960.2192	971.5908
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1000.000	1000.000	1000.000	1000.000	1000.000	1000.000	1000.000
Range	104.0000	104.0000	104.0000	104.0000	104.0000	104.0000	104.0000

Elem	As1890	22031	22032	19601	19602	Sn1899	Bi2230
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	983.4459	976.8379	1002.837	1016.996	985.3102	1002.520	971.8647
SDev	30.0692	17.3953	32.840	23.620	38.1361	35.133	33.8177
%RSD	3.057530	1.780776	3.274713	2.322492	3.870467	3.504495	3.479669
#1	1012.346	987.1866	1030.561	1039.649	1019.342	1031.082	1000.483
#2	985.6621	986.5724	1011.379	1018.824	992.4971	1013.188	980.5643
#3	952.3300	956.7546	966.5695	992.5159	944.0920	963.2888	934.5471
Errors	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value	1000.000					1000.000	1000.000
Range	104.0000					104.0000	104.0000

Elem	Mo2020	Ti3349
Units	ug/L	ug/L
Avge	971.8110	993.4074
SDev	29.3610	32.6443
%RSD	3.021264	3.286092
#1	989.6038	1025.057
#2	987.9072	995.3137
#3	937.9221	959.8518
rrors	QC Pass	QC Pass
Value	1000.000	1000.000
Range	104.0000	104.0000

Method: CLP-P4Z Sample Name: CCB Operator:
Run Time: 10/08/05 15:01:07
Comment: CCB
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	Ba4934	Be3130	Ca3179	Cd2265	Co2286
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-.525176	24.21962	.8073643	.5255321	125.4178	.4110129	-.044758
SDev	.230922	2.02522	.0211247	.0461707	1.5842	.0949239	.260720
%RSD	43.97046	8.361889	2.616499	8.785506	1.263154	23.09510	582.5089
#1	-.262485	23.73596	.8296384	.4932998	127.0664	.4869685	.1040740
#2	-.616896	22.48002	.7876162	.5048714	125.2799	.3045983	.1074571
#3	-.696147	26.44288	.8048384	.5784251	123.9070	.4414720	-.345805
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	10.00000	200.0000	200.0000	5.000000	1000.000	5.000000	50.00000

Elem	Cr2677	Cu3247	Fe2714	K 7664	Mg2790	Mn2576	Na3302
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	.8675987	-.598312	12.29304	7.015820	187.1420	.3950667	-57.4101
SDev	.3106412	.367731	5.17488	.822347	1.8773	.0513155	59.7702
%RSD	35.80471	61.46141	42.09599	11.72132	1.003142	12.98908	104.1108
#1	1.202181	-.285349	7.513778	7.182169	189.3036	.3673262	-2.02215
#2	.8122840	-.506264	11.57649	7.742274	186.2022	.3635924	-49.4446
#3	.5883306	-1.00332	17.78885	6.123015	185.9202	.4542815	-120.764
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	10.00000	25.00000	100.0000	1000.000	1000.000	15.00000	2000.000

Elem	Ni2316	Tl1908	V 2924	Zn2062	Pb2203	Se1960	Sb2068
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	.9512008	.8923987	.2476977	2.298049	1.690419	2.396040	1.262438
SDev	.4794273	1.546074	.1263822	.063209	1.381851	5.429203	1.682878
%RSD	50.40232	173.2492	51.02276	2.750548	81.74606	226.5907	133.3039
#1	.4005915	-.724342	.1808876	2.256331	.1103722	.8293729	3.021946
#2	1.176780	2.356479	.3934627	2.370774	2.673058	-2.07757	-.331583
#3	1.276231	1.045059	.1687427	2.267041	2.287825	Q8.436313	1.096950
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	40.00000	10.00000	50.00000	20.00000	200.0000	5.000000	60.00000

Elem	As1890	22031	22032	19601	19602	Sn1899	Bi2230
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-.472725	1.944659	1.560316	.4746228	3.352263	.3630580	-.933742
SDev	.888563	1.966371	1.855061	5.268496	5.511715	1.587566	1.557607
%RSD	187.9663	101.1165	118.8901	1110.039	164.4178	437.2761	166.8133
#1	-.823022	.6580170	-.166473	-1.24720	1.863049	1.124393	-2.03299
#2	.5375964	.9677862	3.521391	-3.71754	-1.26183	1.426565	.8487153
#3	-1.13275	4.208174	1.326031	6.388606	9.455571	-1.46178	-1.61695
Errors	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass
Value	.0000000					.0000000	.0000000
Range	10.00000					20.00000	10.00000

Elem	Mo2020	Ti3349
Units	ug/L	ug/L
Avge	2.591248	.3416334
SDev	1.182602	.0412138
%RSD	45.63833	12.06375
#1	3.954223	.3703017
#2	1.837159	.2944028
#3	1.982361	.3601957
Errors	QC Pass	QC Pass
Value	.0000000	.0000000
Range	10.00000	30.00000

Automated Mercury Run Log

Instrument ID: V3

Method (Circle one.): CLP (SW-846) MCAWW Date: 9-29-05 Page 1 of 2

Operator: M Lott File name: V3D9295R 7858, 7849

This is part (A) of a two part form Case name: 7832, 7843, 7834, (7829)

No.	Sample ID	Comments	Associated #	No.	Sample ID	Comments	Associated #
	0 ppb			1	783401		
	0.2 ppb			2	81097	PBW	7829
	0.5 ppb			3	81098	LCSW	
	1.0 ppb			4	782903		
	5.0 ppb			5	81099	D	
	10.0 ppb			6	81100	S	
	ICV			7	81111	SD	
	ICB			8	782901		
	CRA			9	782902		
	CCV – 1			10	782904		
	CCB – 1				CCV – 3		
1	80956	PBS	7832		CCB – 3		
2	80957	LCSS		1	782905		
3	783201			2	782907		
4	81036	PBW	7843	3	81288	PBS	7858
5	81037	LCSW		4	81289	LCSS	
6	81038	LCSWD		5	81290	LCSSD	
7	784301			6	785801		
8	81171	PBW	7834	7	81268	PBS	7849
9	81172	LCSW		8	81269	LCSS	
10	81173	LCSWD		9	784906		
	CCV – 2			10	81270	D	
	CCB – 2				CCV – 4		
					CCB – 4		

COMMENTS

Reviewed By: [signature]

Date: 09-29-05

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Standards/QC Preparation Log for Cold Vapor Mercury

1 of 2

COMPUCHEM a division of Liberty Analytical Corp. WORKSHEET 1 NNN

Seq. File Name: V309295R

ICV-5	Ref#: 7M1-32-28	EPA	1104	08/06
Mercury (100-ppm Hg)	Ref#: 1M2-176-21	HIGH PURITY	518601	08/06
REAGENTS				
Sodium Chloride (NaCl)	Ref#: 1M(6)1-4-7			
Sulfuric Acid (H_2SO_4)	Ref#: 1M2-176-27			
Nitric Acid (HNO_3)	Ref#: 1M2-176-25			
Potassium Permanganate ($KMnO_4$)	Ref#: 1M2-176-19			
Hydrochloric Acid (HCl)	Ref#: 1M2-176-22			
Potassium Persulfate ($K_2S_2O_8$)	Ref#: 1M2-176-24			
Hydroxylamine Hydrochloride (NH_2OH-HCl)	Ref#: 1M2-175-26			
Stannous Chloride ($SnCl_2$-$2H_2O$)	Ref#: 1M2-176-11			
STANDARD LOT NUMBER	**PREPARATION INSTRUCTIONS**			
Hg 100 ppb– 09 29 05 – P L	Place in a 100-ml volumetric flask: 0.5 ml of 20-ppm Hg stock solution 5.0 ml of concentrated HNO_3 Baker instra-analyzed Trace Metals grade Dilute to 100 ml with DI water. Prepare as needed			
$K_2S_2O_8$– 09 26 05 – P L Potassium persulfate	Place in a 1000-ml Erlenmeyer flask: 50.0 g of $K_2S_2O_8$ Baker instra-analyzed Trace Metals grade Dilute to 1000 ml with DI water. Transfer to a repippettor bottle. Prepare as needed.			
$KMnO_4$– 09 26 05 – P L Potassium permanganate	Place in a 1000-ml Erlenmeyer flask: 50.0 g of $KMnO_4$ Baker instra-analyzed Trace Metals grade Dilute to 1000 ml with DI water. Transfer to a repipettor bottle. Prepare as needed.			

Standard Solutions Prepared By: RL / tj Date: 9-29-05

Entered By: MLott Date: 9-29-05

Reviewed By: [signature] Date: 09-29-05

*Ref# = Logbook ID, Page number, and Item number from Materials Receipt Log

*Standard Lot Number consists of standard ID, date prepared, and initials of preparer.

11/26/03:dce

Standards/QC Preparation Log for Cold Vapor Mercury 2 of 2

COMPUCHEM a division of Liberty Analytical Corp. WORKSHEET 1 NNN

NH_2OH-HCl- 0 9 26 05 M L Hydroxylamine hydrochloride	Place in a 2000-ml volumetric flask: 240.0 g of NH_2OH-HCl Baker analyzed + 240.0 g NaCl Dilute to 2000 ml with DI water. Place solution in a repippetor bottle. Prepare as needed
$SnCl_2$- 0 9 26 05 - M L Stannous chloride	Place in a 1000-ml volumetric flask 100 g of $SnCl_2$-$2H_2O$ Baker Analyzed 250 ml of HCl Baker Analyzed Dilute to 1000 ml with DI water. Prepare as needed
0 - 0 9 29 0 5 - P L 0.2 - 0 9 29 0 5 - P L 0.5 - 0 9 29 0 5 - P L 1.0 - 0 9 29 0 5 - P L 5.0 - 0 9 29 0 5 - P L 10.0- 0 9 29 0 5 - P L Standard Curve (0, 0.2, 0.5, 1.0, 5.0, 10.0 ppb)	Pipet into a 250-ml fleaker: 0, 0.2, 0.5, 1.0, 5.0, 10.0 ml of 100-ppb Hg standard solution; dilute each to 100 mL with DI water. Add: 5.0 ml of H_2SO_4 2.5 ml of concentrated HNO_3 (Baker Instra-analyzed Trace Metals Grade 15 ml of $KMnO_4$ solution and 8 ml of $K_2S_2O_8$ solution. All standards are digested with samples and recorded on the appropriate logs submitted with this data. Prepare with each batch of samples.
ICV-5- 0 9 29 0 5 - P L	Pipet into 250-ml fleaker: 1.0 ml of ICV-5 and 99 ml of DI water. Add: 5.0 ml of H_2SO_4 2.5 ml of concentrated HNO_3 (Baker Instra-analyzed Trace Metals Grade 15 ml of $KMnO_4$ solution and 8 ml of $K_2S_2O_8$ solution Prepare with each batch of samples. This standard is digested with samples and recorded on the appropriate logs submitted with this data. Prepare with each batch of samples.

Standard Solutions Prepared By: [signature] Date: 9-29-05

Entered By: [signature] Date: 9-29-05

Reviewed By: [signature] Date: 09.29.05

*Standard Lot Number consists of standard ID, date prepared, and initials of preparer. 11/26/03:dce

The presence of the Chemist's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist together with the chemist's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

```
Protocol: INSTIDV3
                        Rev: 2.005   Time: 16:42:53  29 Sep 2005
Folder: V309295R        Seq: 6                          Print: On
User:                   Batch:              Id: Std6Rep1   Cup: 1 87 Gas:    0.45 LPM
State: Idle             Macro AUTOCRA  81   : F3 Print     Xmit: Off Autosampler: On
```

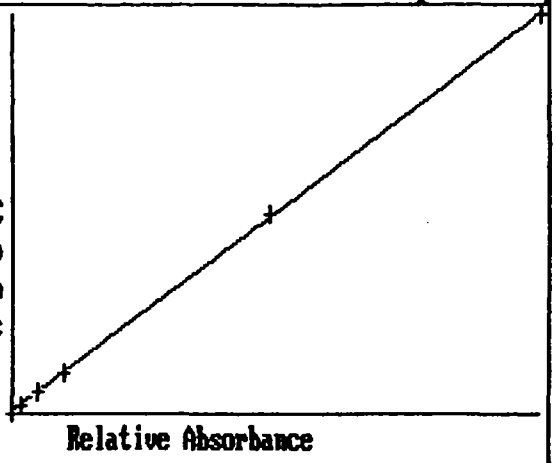
CALIBRATION: Line Calibration

Line: Hg

	Conc.	Calc.	Dev.	Accepted liNear
S1	.0000	.0162	.0162	Quadratic
S2	.2000	.2228	.0228	WtdLinear
S3	.5000	.5097	.0097	
S4	1.000	1.003	.0034	Accept
S5	5.000	4.901	-.0992	
S6	10.00	10.05	.0470	StdAdd

A .0000000 r .999919

B 4.57512e-5 C 1.35892e-2



	Mean	%RSD	
S1	59	0	59
S2	4575	0	4575
S3	10046	0	10046
S4	21637	0	21637
S5	106823	0	106823
S6	219306	0	219306

New cal coefficients stored

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Standard: 1 Rep: 1 Seq: 0 16:31:15 29 Sep 2005 HG

Hg .0000 PPB 59
Ave. Int. = 59 S. D. = 0

*** Standard: 2 Rep: 1 Seq: 1 16:33:32 29 Sep 2005 HG

Hg .2000 PPB 4575
Ave. Int. = 4575 S. D. = 0

*** Standard: 3 Rep: 1 Seq: 2 16:35:49 29 Sep 2005 HG

Hg .5000 PPB 10846
Ave. Int. = 10846 S. D. = 0

*** Standard: 4 Rep: 1 Seq: 3 16:38:06 29 Sep 2005 HG

Hg 1.000 PPB 21637
Ave. Int. = 21637 S. D. = 0

*** Standard: 5 Rep: 1 Seq: 4 16:40:24 29 Sep 2005 HG

Hg 5.000 PPB 106823
Ave. Int. = 106823 S. D. = 0

*** Standard: 6 Rep: 1 Seq: 5 16:42:48 29 Sep 2005 HG

Hg 10.00 PPB 219306
Ave. Int. = 219306 S. D. = 0

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Check Standard: 3 Ck3 ICV Seq: 6 16:45:16 29 Sep 2005 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		96.94	3.975	4.100	PPB	.0000

*** Check Standard: 1 Ck1 CCB Seq: 7 16:47:34 29 Sep 2005 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0017	.2000	PPB	.0000

*** Check Standard: 4 Ck4 CRA Seq: 8 16:49:49 29 Sep 2005 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		111.7	.2234	.2000	PPB	.0000

*** Check Standard: 2 Ck2 CCV Seq: 9 16:52:04 29 Sep 2005 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		99.01	4.951	5.000	PPB	.0000

*** Check Standard: 1 Ck1 CCB Seq: 10 16:54:25 29 Sep 2005 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.0001	.2000	PPB	.0000

*** Sample ID: 80956 Seq: 11 16:56:39 29 Sep 2005 HG

PBS

Hg	.0292	PPB	.0000	.0292

*** Sample ID: 80957 Seq: 12 16:58:52 29 Sep 2005 HG

LCSS

Hg	5.089	PPB	.0000	5.089

*** Sample ID: 783201 Seq: 13 17:01:15 29 Sep 2005 HG

MAIN 7-8

Hg	.1313	PPB	.0000	.1313

*** Sample ID: 81036 Seq: 14 17:03:28 29 Sep 2005 HG

PBW

Hg	.0195	PPB	.0000	.0195

*** Sample ID: 81037 Seq: 15 17:05:41 29 Sep 2005 HG

LCSW

Hg	3.089	PPB	.0000	3.089

*** Sample ID: 81038 Seq: 16 17:07:58 29 Sep 2005 HG

LCSWD

Hg	3.117	PPB	.0000	3.117

*** Sample ID: 784301 Seq: 17 17:10:15 29 Sep 2005 HG

CRABBLANK

Hg	.0148	PPB	.0000	.0148

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: 81171				Seq: 18		17:12:28 29 Sep 2005 HG		
				PBW				
Hg	.0278	PPB	.0000	.0278				
*** Sample ID: 81172				Seq: 19		17:14:41 29 Sep 2005 HG		
				LCSW				
Hg	3.157	PPB	.0000	3.157				
*** Sample ID: 81173				Seq: 20		17:16:56 29 Sep 2005 HG		
				LCSWD				
Hg	3.114	PPB	.0000	3.114				

*** Check Standard: 2 Ck2 CCV				Seq: 21	17:19:16 29 Sep 2005 HG
Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		100.4	5.021	5.000	PPB	.0000

*** Check Standard: 1 Ck1 CCB				Seq: 22	17:21:41 29 Sep 2005 HG
Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.0071	.2000	PPB	.0000

*** Sample ID: 783401				Seq: 23	17:23:55 29 Sep 2005 HG			
				FRGBLANK				
Hg	.0228	PPB	.0000	.0228				
*** Sample ID: 81097				Seq: 24	17:26:08 29 Sep 2005 HG			
				PBW				
Hg	.0271	PPB	.0000	.0271				
*** Sample ID: 81098				Seq: 25	17:28:21 29 Sep 2005 HG			
				LCSW				
Hg	3.207	PPB	.0000	3.207				
*** Sample ID: 782903				Seq: 26	17:30:44 29 Sep 2005 HG			
				ACSGWPWB26				
Hg	.0211	PPB	.0000	.0212				
*** Sample ID: 81099				Seq: 27	17:32:58 29 Sep 2005 HG			
				ACSGWPWB26D				
Hg	.0338	PPB	.0000	.0338				
*** Sample ID: 81100				Seq: 28	17:35:11 29 Sep 2005 HG			
				ACSGWPWB26S				
Hg	1.092	PPB	.0000	1.092				
*** Sample ID: 81111				Seq: 29	17:37:23 29 Sep 2005 HG			
				ACSGWPWB26SD				
Hg	1.091	PPB	.0000	1.091				

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: 782901 Seq: 30 17:39:34 29 Sep 2005 HG
ACSGWPWA26

Hg	.0229	PPB	.0000	.0229				

*** Sample ID: 782902 Seq: 31 17:41:46 29 Sep 2005 HG
ACSGWPWDUP26

Hg	.0312	PPB	.0000	.0312				

*** Sample ID: 782904 Seq: 32 17:43:59 29 Sep 2005 HG
ACSGWPWT26

Hg	.0283	PPB	.0000	.0283				

*** Check Standard: 2 Ck2 CCV Seq: 33 17:46:13 29 Sep 2005 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		99.39	4.970	5.000	PPB	.0000

*** Check Standard: 1 Ck1 CCB Seq: 34 17:48:38 29 Sep 2005 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.0116	.2000	PPB	.0000

*** Sample ID: 782905 Seq: 35 17:50:52 29 Sep 2005 HG
ACSGWPWC26

Hg	.0349	PPB	.0000	.0349				

*** Sample ID: 782907 Seq: 36 17:53:05 29 Sep 2005 HG
ACSGWPWD26

Hg	.0403	PPB	.0000	.0403				

*** Sample ID: 81288 Seq: 37 17:55:18 29 Sep 2005 HG
PBS

Hg	.0330	PPB	.0000	.0330				

*** Sample ID: 81289 Seq: 38 17:57:31 29 Sep 2005 HG
LCSS

Hg	4.965	PPB	.0000	4.965				

*** Sample ID: 81290 Seq: 39 17:59:50 29 Sep 2005 HG
LCSSD

Hg	4.978	PPB	.0000	4.978				

*** Sample ID: 785801 Seq: 40 18:02:13 29 Sep 2005 HG
WGW-SS01-05D

Hg	.1411	PPB	.0000	.1411				

*** Sample ID: 81268 Seq: 41 18:04:26 29 Sep 2005 HG
PBS

Hg	.0248	PPB	.0000	.0248				

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: 81269 Seq: 42 18:06:39 29 Sep 2005 HG
LCSS
Hg 5.284 PPB .0000 5.284

*** Sample ID: 784906 Seq: 43 18:08:59 29 Sep 2005 HG
D18968
Hg .0349 PPB .0000 .0349

*** Sample ID: 81270 Seq: 44 18:11:12 29 Sep 2005 HG
D18968D
Hg .0501 PPB .0000 .0501

*** Check Standard: 2 Ck2 CCV Seq: 45 18:13:26 29 Sep 2005 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		100.8	5.040	5.000	PPB	.0000

*** Check Standard: 1 Ck1 CCB Seq: 46 18:15:51 29 Sep 2005 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.0107	.2000	PPB	.0000

*** Sample ID: 81271 Seq: 47 18:18:05 29 Sep 2005 HG
D18968S
Hg 1.091 PPB .0000 1.091

*** Sample ID: 81272 Seq: 48 18:20:19 29 Sep 2005 HG
D18968SD
Hg 1.112 PPB .0000 1.112

*** Sample ID: 784903 Seq: 49 18:22:32 29 Sep 2005 HG
D18549
Hg 4.634 PPB .0000 4.634

*** Sample ID: 784905 Seq: 50 18:24:51 29 Sep 2005 HG
D18967
Hg .0541 PPB .0000 .0541

10/10/05

*** Sample ID: 123123 Seq: 51 18:27:04 29 Sep 2005 HG
123123
Hg .0138 PPB .0000 .0138

*** Check Standard: 2 Ck2 CCV Seq: 52 18:29:19 29 Sep 2005 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		101.5	5.075	5.000	PPB	.0000

*** Check Standard: 1 Ck1 CCB Seq: 53 18:31:40 29 Sep 2005 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.0045	.2000	PPB	.0000

CYANIDE ANALYSIS LOG

CompuChem
A Division of Liberty Analytical Corp.

Analyst: Joseph Martin

Date: 10/05/05

Instrument ID: C2

Note: Manual Dilution Factor is not reflected in the sample results

Method CLP - ILM04.0/ILM04.1 335.2/335.3/335.2(CLP-M)
SW-846 - 9010B/9012A

File Name(s): 1005CNS1

Case Name(s): 7849, 7829

Lachat Method 10-204-001-1-A

Cup Number	Sample ID	Sampling Date	Sampling Time	Manual Dil Factor	Result/Peak Area	Unit	Analyte Name	Comments
1	S400	5-Oct-05	16:26:07	1	15743018	uv-s	CNSW846	
2	S300	5-Oct-05	16:26:53	1	11905904	uv-s	CNSW846	
3	S200	5-Oct-05	16:27:39	1	8018223	uv-s	CNSW846	
4	S100	5-Oct-05	16:28:25	1	4075666	uv-s	CNSW846	
5	S40	5-Oct-05	16:29:12	1	1695797	uv-s	CNSW846	
6	S20	5-Oct-05	16:29:58	1	895896	uv-s	CNSW846	
7	S10	5-Oct-05	16:30:44	1	480742	uv-s	CNSW846	
8	S0	5-Oct-05	16:31:31	1	90894	uv-s	CNSW846	
13	ICV TV=99	5-Oct-05	16:33:43	1	99.231361	µg/L	CNSW846	
14	ICB	5-Oct-05	16:34:29	1	-1.556955	µg/L	CNSW846	
3	CCV TV=200	5-Oct-05	16:35:15	1	204.722031	µg/L	CNSW846	
8	CCB	5-Oct-05	16:36:01	1	-0.61535	µg/L	CNSW846	
1	LRS	5-Oct-05	16:38:13	1	40.193367	µg/L	CNSW846	
2	HRS	5-Oct-05	16:38:59	1	303.308014	µg/L	CNSW846	
3	81563 PBS	5-Oct-05	16:41:11	1	-1.573741	µg/L	CNSW846	
4	81564 LCSS	5-Oct-05	16:41:57	1	200.178894	µg/L	CNSW846	
5	784906 D18968	5-Oct-05	16:42:43	1	-0.023208	µg/L	CNSW846	
6	81566 D18968S	5-Oct-05	16:43:29	1	107.159439	µg/L	CNSW846	
7	81567 D18968SD	5-Oct-05	16:44:15	1	104.876274	µg/L	CNSW846	
8	81566 D18968D	5-Oct-05	16:45:01	1	0.000721	µg/L	CNSW846	
9	784904 D18550	5-Oct-05	16:45:46	1	60.471115	µg/L	CNSW846	
10	784905 D18967	5-Oct-05	16:46:31	1	-2.180194	µg/L	CNSW846	
3	CCV TV=200	5-Oct-05	16:47:17	1	205.646713	µg/L	CNSW846	
8	CCB	5-Oct-05	16:48:03	1	-0.099203	µg/L	CNSW846	

Reviewed by: Susan W Bas Date: 10/6/05

CYANIDE ANALYSIS LOG

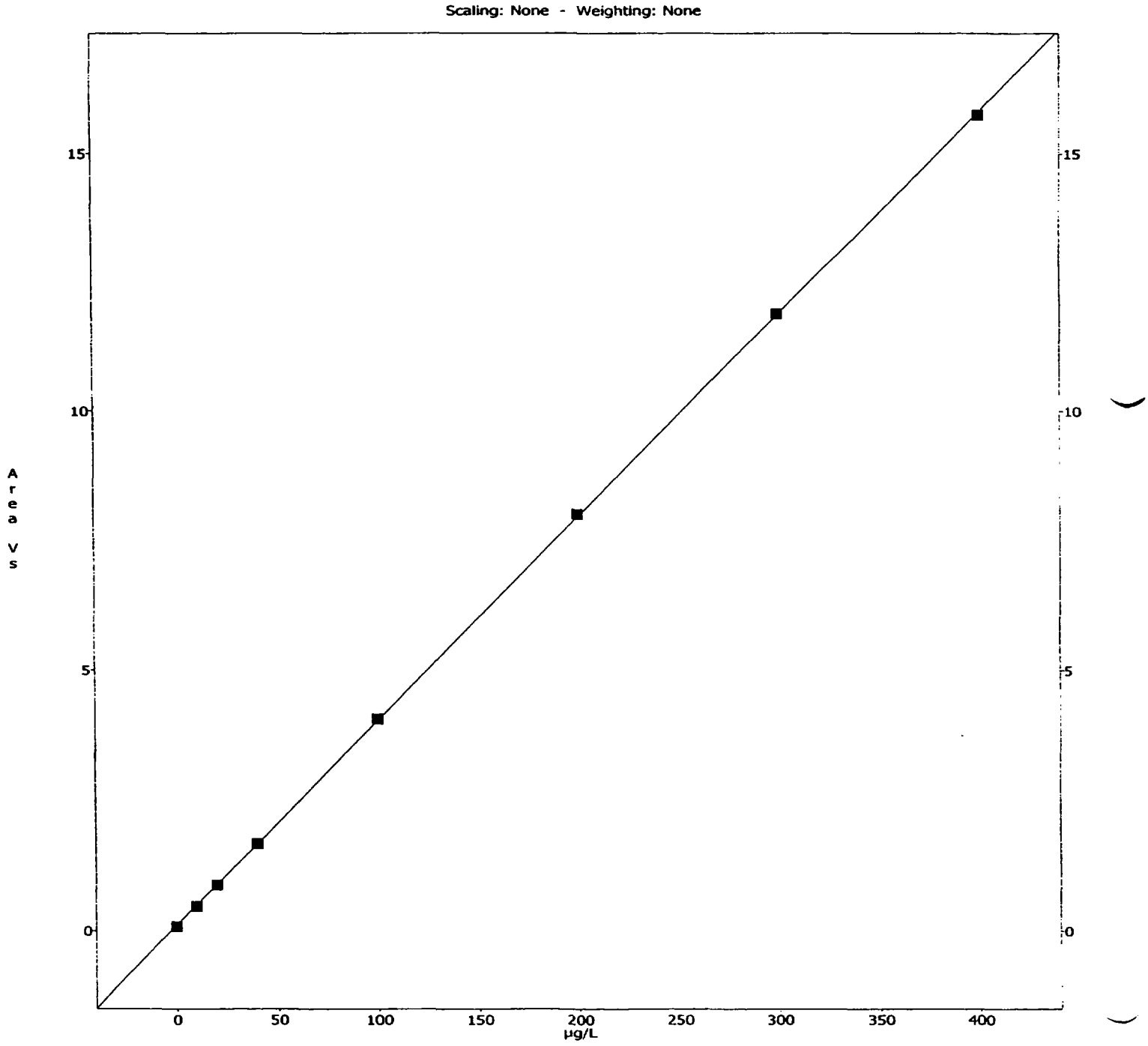
11	81558 PBW	5-Oct-05	16:50:15	1	-1.328588	µg/L	CNSW846	
12	81559 LCSW	5-Oct-05	16:51:00	1	106.702805	µg/L	CNSW846	
13	782903 ACSGPWB26	5-Oct-05	16:51:46	1	-1.295043	µg/L	CNSW846	
14	81561 ACSGWPWB26S	5-Oct-05	16:52:30	1	108.025764	µg/L	CNSW846	
15	81562 ACSGWPWB26SD	5-Oct-05	16:53:15	1	105.664284	µg/L	CNSW846	
16	81560 ACSGWPWB26D	5-Oct-05	16:54:02	1	-1.958562	µg/L	CNSW846	
17	782901 ACSGWPWA26	5-Oct-05	16:54:48	1	0.980158	µg/L	CNSW846	
18	782902 ACSGWPWDUP26	5-Oct-05	16:55:34	1	-2.580985	µg/L	CNSW846	
19	782904 ACSGWPWT26	5-Oct-05	16:56:21	1	-2.465857	µg/L	CNSW846	
20	782905 ACSGWPWC26	5-Oct-05	16:57:07	1	-2.353919	µg/L	CNSW846	
3	CCV TV=200	5-Oct-05	16:57:53	1	215.667725	µg/L	CNSW846	
8	CCB	5-Oct-05	16:58:39	1	-1.256854	µg/L	CNSW846	
21	782907 ACSGWPWD26	5-Oct-05	17:00:52	1	-1.396701	µg/L	CNSW846	
3	CCV TV=200	5-Oct-05	17:01:38	1	214.725891	µg/L	CNSW846	
8	CCB	5-Oct-05	17:02:25	1	-0.636141	µg/L	CNSW846	

Reviewed by: Susan a Bon Date: 10/10/05

CNSW846

Lvl	Area	µg/L	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Replic STD	Replic % RSD	Residual 1st Poly
1	15743018	400	15743018					0.0	0.0	0.4
2	11905904	300	11905904					0.0	0.0	-0.2
3	8018223	200	8018223					0.0	0.0	-0.7
4	4075666	100	4075666					0.0	0.0	-0.9
5	1695797	40	1695797					0.0	0.0	-0.5
6	895896	20	895896					0.0	0.0	1.1
7	480742	10	480742					0.0	0.0	8.0
8	90894	0	90894					0.0	0.0	

1st Order Poly
Conc = 2.551e-005 Area - 3.068e+000
r = 1.0000



Printed: Wednesday, October 05, 2005 - 05:05 PM

Standards/QC Preparation for Cyanide Analysis by Lachat

Seq. File Name: 1005CN01 , 1005CN51

COMPUCHEM a division of Liberty Analytical Corp. WORKSHEET 1 O(5)

REAGENTS	LOT#
Sodium Hydroxide	1u(6)1-9-13
Potassium Phosphate Monobasic Anhydrous (KH_2PO_4)	1U(6)1-8-2
Chloramine-T	1U(6)1-9-3
Barbituric Acid	1U(6)1-9-11
Pyridine	1U(6)1-9-27
Hydrochloric Acid	1M2-176-22

REAGENTS AND ROL OF NUMBER**	PREPARATION INSTRUCTIONS
Carrier, 0.25M NaOH- 10 05 05 JM	In a 1-L volumetric flask, dissolve 10.0 g of NaOH in 800 mL of water. Dilute to the mark and invert three times. To prevent bubble formation, degas using a vacuum pump.
Phosphate Buffer- 09 29 05 JM	In a 1-L volumetric flask, dissolve 97 g of potassium phosphate monobasic anhydrous in 800 mL of water. Dilute to the mark and invert three times. To prevent bubble formation, degas using a vacuum pump.
Chloramine-T- 010 05 11 JM	To a 500-mL volumetric flask, add 250 mL of water followed by 2 g of hloramines-T. Dilute to the mark and invert three times. To prevent bubble formation, degas using a vacuum pump. Prepare fresh daily.
Pyridine-Barbituric Acid- 09 20 05 JM	CAUTION – Always use a fume hood when preparing this reagent. Always wear a face shield when dispensing concentrated acids. This reagent has a six month shelf – life if stored at 4 °C. In the fume hood, place 15.0 g of barbituric acid in a 1-L beaker and add 100 mL of water, rinsing down the sides of the beaker to wet the barbituric acid. Stir in 75 mL of pyridine (C_5H_5N) and mix until the barbituric acid dissolves. Add 15 mL of concentrated hydrochloric acid (12M HCl) and mix. Transfer to a 1-L volumetric flask, dilute to the mark, and invert three times. To prevent bubble formation, degas using a vacuum pump.

Reagent/Standard Solutions Prepared By: _____ Date: 10/05/05

Entered By: _____ Date: 10/05/05

Reviewed By: Susan W Bass Date: 10/10/05

The presence of the Chemist's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist together with the chemist's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

*Ref# = Logbook ID, Page number, and item number from Materials Receipt Log

**Standard Lot Number consists of standard ID, date prepared, and initials of preparer.

Standards/QC Preparation for Cyanide Analysis by Lachat

COMPUCHEM a division of Liberty Analytical Corp. WORKSHEET 1 O(5)

STANDARD LOT NUMBER	PREPARATION
CN400– 10 05 05 JM (SW846 only)	Place in a 100 ml volumetric flask: 400 µg/L standard Pipet 4.0 ml of 10 mg/L cyanide solution into the flask. Dilute to 100 ml with 0.25 N NaOH and mix well
CN300–10 05 05 JM (SW846 only)	Place in a 100 ml volumetric flask: 300 µg/L standard Pipet 3.0 ml of 10 mg/L cyanide solution into the flask. Dilute to 100 ml with 0.25 N NaOH solution
CN200– 10 05 05 jm (SW846 & CLP) USED FOR CCV FOR SW846	Place in a 100 ml volumetric flask: 200 µg/L standard Pipet 2.0 ml of 10 mg/L cyanide solution into the flask. Dilute to 100 ml with 0.25 N NaOH solution
CN100– 09 29 05 JM (SW846 & CLP) USED FOR CCV FOR ILM05.3 & CLP	Place in a 100 ml volumetric flask: 100 µg/L standard Pipet 1.0 ml of 10 mg/L cyanide solution into the flask. Dilute to 100 ml with 0.25 N NaOH solution
CN50– 10 05 05 jm (CLP only)	Place in a 100 ml volumetric flask: 50 µg/L standard Pipet 0.5 ml of 10 mg/L cyanide solution into the flask. Dilute to 100 ml with 0.25 N NaOH solution.

Reagent/Standard Solutions Prepared By: _____ Date: 10/05/05

Entered By: _____ Date: 10/05/05

Reviewed By: _____ Date: 10/10/05

The presence of the Chemist's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist together with the chemist's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

**Standard Lot Number consists of standard ID, date prepared, and initials of preparer.

Standards/QC Preparation for Cyanide Analysis by Lachat

COMPUCHEM a division of Liberty Analytical Corp. WORKSHEET 1 O(5)

CN40– 10 05 05 jm (SW846 only)	Place in a 1000 ml volumetric flask: 40 µg/L standard Pipet 0.4 ml of 10 mg/L cyanide solution into the flask. Dilute to 100 ml with 0.25 N NaOH solution.
CN20- 140 05 05jm (SW846 & CLP)	Place in a 100 ml volumetric flask: 20 µg/L standard Pipet 0.2 ml of 10 mg/L cyanide solution into the flask. Dilute to 100 ml with 0.25 N NaOH solution
CN10– 10 05 05 jm (SW846 & CLP) (also used as CRI for CLP)	Place in a 1000 ml volumetric flask: 10 µg/L standard Pipet 0.1 ml of 10 mg/L cyanide solution into flask. Dilute to 100 ml with 0.25 N NaOH solution
Blank– 10 05 05 jm (SW846 & CLP) (Adjusted DI H_2O)	0.25 N NaOH solution Dissolve a 10 g of NaOH into a 1000-ml volumetric flask: with DI water

Standardize cyanide stock solution (1000 mg/L) against standard silver nitrate ($AgNO_3$) titrant weekly. See SOP and standardization log for details.	JM	10/05/05	1U(5)1-4-301

Reagent/Standard Solutions Prepared By: _____ Date: 10/05/05

Entered By: _____ Date: 10/05/05

Reviewed By: Susan W Bass Date: 10/10/05

The presence of the Chemist's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist together with the chemist's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

**Standard Lot Number consists of standard ID, date prepared, and initials of preparer.

5. Digestion and Distillation Logs

Logs shall be submitted in the following order: digestion logs for ICP, flame AA (if used), furnace AA (if used), and mercury preparations, followed by a copy of the distillation log for cyanide.

Metals/Mercury Preparation Log

CompuChem a division of Liberty Analytical Corp.

Metals Method (circle one): CLP(ILM04.1/ILM05.3) 200.7 (3010A) 3020A 3050B 3005A HS1 HW1 HW3 Sample Prep Included 3030C

Mercury Method (circle one): **MCAWW:** 245.1 245.5 **ILM04.1/ILM05.3** 245.1-M 245.5-M CS1 CW1 **SW846:** (7470A) 7471A

Case/SDG: 7829 **Prepared by:** [signature] **Date:** 09/29/05 PREP LOG GENERATED ON: 09/30/05

1	782901	ACSGWPWA26	09/26/05	~~50~~	~~50~~	100	100	colorless/clear	colorless/clear	violet	<2
2	782902	ACSGWPWDUP26	09/26/05	50	~~50~~	100	100	colorless/clear	colorless/clear	violet	<2
3	782903	ACSGWPWB26	09/27/05	50	50	100	100	colorless/clear	colorless/clear	violet	<2
4	782904	ACSGWPWT26	09/27/05	50	50	100	100	colorless/clear	colorless/clear	violet	<2
5	782905	ACSGWPWC26	09/27/05	50	50	100	100	colorless/clear	colorless/clear	violet	<2
6	782907	ACSGWPWD26	09/27/05	~~50~~	~~50~~	100	100	colorless/clear	colorless/clear	violet	<2
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21	Sample Spike:	81095/81100		50	50	100	100				
22	Sample Spike Dup:	81096/81111		50	50	100	100				
23	Duplicate Sample :	81094/81099		50	50	100	100				
24	Lab Control Sample :	81093/81098		50	50	100	100				
25	Prep Blank :	81092/81097		50	50	100	100				

09/29/05

Hot Block Temp In:	95
Hot Block Temp Out:	95
Time Hg in water bath:	1047
Time Hg out water bath:	1247
Water Bath Temp In:	95
Water Bath Temp Out:	95

ICAP: 0.5 mL XCL-20
Ref #: 1m2-176-3
ICAP: na
Ref #: na
Hg: 1.0 mL 100ppbHg
Ref #: 100ppb Hg-092905-PL

ICAP: 0.5 mL XCL LCS 10XA
Ref # 1m2-176-4
ICAP: 0.5 mL XCL LCS 10XB
Ref #: 1m2-176-5
Hg: 3.0 mL 100ppb Hg
Ref #: 100ppb Hg-092905-PL

NOTE: All standards and QC for mercury were prepared at the same time as the associated samples .Refer to the attached Standard/QC Preparation Log, with date matching the above preparation date, for preparation method and instruction.

*The presence of the Chemist's employee ID number, or signature, on this log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist together with the chemist's initials and the initials of the lab supervisor and a QA department representative.

Standards/QC Preparation Log for Metals/Mercury

COMPUCHEM a division of Liberty Analytical Corp. WORKSHEET I Q(1) I

Case/SDG: 7829

REAGENTS	REF#[1]	MANUFACTURER	LOT#	EXPIRATION
Sulfuric Acid (H_2SO_4)	1m2-176-27	Caledon	53821	08/06
Nitric Acid (HNO_3)	1m2-177-13	JT Baker	B21039	09/06
Potassium Permanganate ($KMnO_4$)	1m2-176-14	JT Baker	B05590	06/06
Hydrochloric Acid (HCl)	1m2-177-07	Caledon	55870	08/06
Potassium Persulfate ($K_2S_2O_8$)	1m2-176-24	Caledon	55548	08/06
Hydrogen Peroxide (H_2O_2)	1m2-175-28	Caledon	51327	04/06
STANDARDS				
XCL 20	1m2-176-3	High Purity	510802	05/06
XCL LCS 10X A	1m2-176-4	High Purity	510803	05/06
XCL LCS 10X B	1m2-176-5	High Purity	510803	05/06
ERA PPT (245)	1m2-177-12	ERA	245	09/06
EPA LCS-S (0405)	1 m2-176-09	EPA	0405	05/06
ICV-1 (1201)	7ml-32-25	EPA	1201	08/06
ILMO 5.3 Matrix Spike	7ml-32-05	High Purity	503326	03/06
TCLP 500	1m2-175-13	High Purity	501805	02/06
Silver	1m2-175-06	High Purity	431307	12/05
Mercury (100-ppm Hg)	1m2-176-21	High Purity	518601	08/06

Standard Solutions Prepared By: [signature] Date: 9-29-05

Entered By: [signature] Date: 9-29-05

Reviewed By: [signature] Date: 09-30-05

Ref#[1] = Logbook ID, Page number, and item number from Materials Receipt Log

Standard Lot Number[2] consists of standard ID, date prepared, and initials of preparer.

9/28/04:jad

"The presence of the Chemist's employee ID number, or signature, on this worksheet attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist together with the chemist's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation."

Metals/Mercury Preparation Log

CompuChem a division of Liberty Analytical Corp.

Metals Method (circle one): **CLP**(ILM04.1/ILM05.3) 200.7 3010A 3020A 3050B 3005A HS1 HW1 HW3 Sample Prep Included 3030C

Mercury Method (circle one): **MCAWW:** 245.1 245.5 **ILM04.1/ILM05.3** 245.1-M 245.5-M CS1 CW1 **SW846:** 7470A 7471A

Case/SDG: 7829 - Replen **Prepared by:** [signature] **Date:** 10-7-05

#	CCN (Lab ID)	Client ID	Date Rec'd	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	pH
1	782901	ACSGWPWA26	09/26/05	50	50	na	na	colorless/clear	colorless/clear	na	<2
2	782902	ACSGWPWDUP26	09/26/05	50	50	na	na	colorless/clear	colorless/clear	na	<2
3	782903	ACSGWPWB26	09/27/05	50	50	na	na	colorless/clear	colorless/clear	na	<2
4	782904	ACSGWPWT26	09/27/05	50	50	na	na	colorless/clear	colorless/clear	na	<2
5	782905	ACSGWPWC26	09/27/05	50	50	na	na	colorless/clear	colorless/clear	na	<2
6	782907	ACSGWPWD26	09/27/05	50	50	na	na	colorless/clear	colorless/clear	na	<2
7											
8											
9											
10											
11											
12											
13											
14											
15					[signature]			10-7-05			
16											
17											
18											
19											
20											
21	Sample Spike:	81095		50	50	na	na	Ref CCN: 782903			
22	Sample Spike Dup:	81096		50	50	na	na	Ref CCN: 782903			
23	Duplicate Sample :	81094		50	50	na	na	Ref CCN: 782903			
24	Lab Control Sample :	81093		50	50	na	na				
25	Prep Blank :	81092		50	50	na	na				

Hot Block Temp In:	95	Time Hg in water bath:	na
Hot Block Temp Out:	95	Time Hg out water bath:	na
		Water Bath Temp In:	na
		Water Bath Temp Out:	na

ICAP: 0.5mL XCL-20
Ref #: 1m2-176-3
Hg: na
Ref #: na

ICAP: 0.5mL XCL LCS 10XA
Ref #: 1M2-176-4
ICAP: 0.5mL XCL LCS 10XB
Ref #: 1M2-176-5
Hg: na
Ref #: na

NOTE: All standards and QC for mercury were prepared at the same time as the associated samples .Refer to the attached Standard/QC Preparation Log, with date matching the above preparation date, for preparation method and instruction.

*The presence of the Chemist's employee ID number, or signature, on this log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist together with the chemist's initials and the initials of the lab supervisor and a QA department representative.

Standards/QC Preparation Log for Metals/Mercury

COMPUCHEM a division of Liberty Analytical Corp. WORKSHEET 1 Q(1) 1

Case/SDG: 7829 -Reprep

Sulfuric Acid (H_2SO_4)	1m2-176-27	Caledon	53821	08/06
Nitric Acid (HNO_3)	1m2-177-16	JT Baker	B27030	09/06
Potassium Permanganate ($KMnO_4$)	1m2-176-14	JT Baker	B05590	06/06
Hydrochloric Acid (HCl)	1m2-177-17	Caledon	55654	08/06
Potassium Persulfate ($K_2S_2O_8$)	1m2-176-24	Caledon	55548	08/06
Hydrogen Peroxide (H_2O_2)	1m2-175-28	Caledon	51327	04/06
XCL 20	1m2-176-3	High Purity	510802	05/06
XCL LCS 10X A	1m2-176-4	High Purity	510803	05/06
XCL LCS 10X B	1m2-176-5	High Purity	510803	05/06
ERA PPT (245)	1m2-177-12	ERA	245	09/06
EPA LCS-S (0405)	1 m2-176-09	EPA	0405	05/06
ICV-1 (1201)	7ml-34-14	EPA	1201	08/06
ILMO 5.3 Matrix Spike	7ml-32-05	High Purity	503326	03/06
TCLP 500	1m2-175-13	High Purity	501805	02/06
Silver	1m2-175-06	High Purity	431307	12/05
Mercury (100-ppm Hg)	1m2-176-21	High Purity	518601	08/06

Standard Solutions Prepared By: _____ Date: 10-7-05

Entered By: _____ Date: 10-7-05

Reviewed By: _____ Date: 10.07.05

Ref#[1] = Logbook ID, Page number, and item number from Materials Receipt Log

Standard Lot Number[2] consists of standard ID, date prepared, and initials of preparer.

9/28/04:jad

"The presence of the Chemist's employee ID number, or signature, on this worksheet attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist together with the chemist's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation."

Cyanide Preparation

SPP -072 / -093 / -094 / -139 / -191

CompuChem a division of Liberty Analytical Corp.

Method:CLP or 335.2 CLP-M or 335.3 or 9012A (Mod) or 4500-CN I 9012 (Enter One)

Batch No. 10672 Date: 10/4/2005 Matrix: H2O

Prepared By: Joseph Mohn EPA Case/SDG: 7829

#	CCN (Lab ID)	Client ID	Sample Type	Initial mL g	Final (mL)	Description Before	Description After	S-*	Cl2*	pH	Amen Prep**	Free Prep**
1	81558	MB for HBN 75116 [WC/10672]	MB	50	50	colorless/clear	colorless/clear	n/a	n/a	>12	n/a	n/a
2	81559	LCS for HBN 75116 [WC/10672]	LCS	50	50	colorless/clear	colorless/clear	n/a	n/a	>12	n/a	n/a
3	81560	ACSGWPWB26(782903DUP)	DUP	50	50	colorless/clear	colorless/clear	n/a	n/a	>12	n/a	n/a
4	81561	ACSGWPWB26(782903MS)	MS	50	50	colorless/clear	colorless/clear	n/a	n/a	>12	n/a	n/a
5	81562	ACSGWPWB26(782903MSD)	MSD	50	50	colorless/clear	colorless/clear	n/a	n/a	>12	n/a	n/a
6	782901	ACSGWPWA26	SAMPLE	50	50	colorless/clear	colorless/clear	n/a	n/a	>12	n/a	n/a
7	782902	ACSGWPWDUP26	SAMPLE	50	50	colorless/clear	colorless/clear	n/a	n/a	>12	n/a	n/a
8	782903	ACSGWPWB26	SAMPLE	50	50	colorless/clear	colorless/clear	n/a	n/a	>12	n/a	n/a
9	782904	ACSGWPWT26	SAMPLE	50	50	colorless/clear	colorless/clear	n/a	n/a	>12	n/a	n/a
10	782905	ACSGWPWC26	SAMPLE	50	50	colorless/clear	colorless/clear	n/a	n/a	>12	n/a	n/a
11	782907	ACSGWPWD26	SAMPLE	50	50	colorless/clear	colorless/clear	n/a	n/a	>12	n/a	n/a
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												

Sue rotator

Check if standard(s) distilled		Hot Block Temp 'C	Chlorination Time	Distillation Time
ICV	x	start: 123	Start: n/a	Start: 3:00
LRS 40 ppb=0.2ml 10ppm (SW846)	x	end: 123	Stop: n/a	Stop: 4:30
MRS 100 ppb=0.5ml 10ppm (CLP & amenable)				
HRS [illegible] ppb=1.5ml 10ppm (SW846)	x			

*D = Detected / ND = Not Detected

** Y = Yes / N = No

1/15/04:dce

Comments:

Reviewed By: Susan W Bass Date: 10/10/05

Gen[illegible]on: 10/5/2005 4:56 PM

105

Star)rds/QC Preparation for Cyanide Digestion)SDG No(s) 7824 7833 7859 7889 7829 7849)

COMPUCHEM a division of Liberty Analytical. Corp. WORKSHEET 1 I(8)

CN 1000 mg/L	1U(6)1-10-26	NSI	040105	04-06
ICV-6	7M1-25-23	EPA	N/A	12/06
EPA LCS (soil)	7M1-14-7	EPA	N/A	08/07

Magnesium Chloride	IU(6)1-9-14
Sodium Hydroxide	1u(6)1-9-13
Sulfuric Acid	1M2-175-8
Sodium Acetate Trihydrate (free cyanide only)	N/A
Zinc Acetate (free cyanide only)	N/A
Glacial Acetic Acid (free cyanide only)	N/A
Methyl Red (free cyanide only)	N/A
Calcium Hypochlorite (amenable cyanide only)	N/A
Ascorbic Acid (amenable cyanide only)	N/A

Intermediate CN, 10 ppm 100405jm	Place in a 50 ml volumetric flask: Pipet 0.5 mL of stock cyanide standard into the flask. Dilute to the mark with 0.25 NaOH solution and mix well. Prepare daily.
Sodium hydroxide, 0.25N 104050jm	Dissolve 20g of NaOH in DI H_2O, then dilute to 2 liter.

Reagent/Standard Solutions Prepared By: _____ Date: 10/4/05

Entered By: _____ Date: 10/4/05

Reviewed By: _____ Date: 10/10/05

The presence of the Chemist's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist together with the chemist's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

*Ref# = Logbook ID, Page number, and item number from Materials Receipt Log

**Standard Lot Number consists of standard ID, date prepared, and initials of preparer.

Standards/QC Preparation for Cyanide Digestion

Magnesium Chloride 092805 tnj	Weigh 510 grams of $MgCl_2/.6H_2O$ into a 1 L flask and dissolve it in DI water. Dilute to 1 liter with DI water. Shake the flask well to thoroughly mix.
Sulfuric Acid: 50% (v/v) 100405jm	Carefully add 100 mL of conc. Sulfuric acid to 100 mL DI H_2O. Adjust volumes as needed.
ICV 100405jm	Pipet 0.5 ml of ICV-6 cyanide solution into a distillation flask containing 50 ml of DI water. Distill according to the sample preparation instructions.
ICV(H2O) 104050jm	Pipet 0.5 ml of ICV-6 cyanide solution into a distillation flask containing 50 ml of DI water. Distill according to the sample preparation instructions.
LCS (for soils) 100405jm	Weigh 1.0 g of the EPA solid into a distillation flask containing 50 mL DI H_2O.
MRS 100405jm (for CLP & amenable cyanide)	Pipet 0.5 ml of the 10 ppm stock intermediate cyanide solution into the distillation flask, which contains 50 ml of DI water. Distill according to sample preparation instructions.
HRS 100405jm (for SW846)	Pipet 1.5 ml of the 10 ppm stock intermediate cyanide solution into the distillation flask, which contains 50 ml of DI water. Distill according to sample preparation instructions.
LRS 100405jm (for SW846)	Pipet 0.200 ml of the 10 ppm stock intermediate cyanide solution into the distillation flask, which contains 50 ml of DI water. Distill according to sample preparation instructions.

Reagent/Standard Solutions Prepared By: _____ Date: 10/4/05

Entered By: _____ Date: 10/4/05

Reviewed By: _____ Date: 10/10/05

The presence of the Chemist's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist together with the chemist's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

**Standard Lot Number consists of standard ID, date prepared, and initials of preparer.

Standards/QC Preparation for Cyanide Digestion

COMPUCHEM a division of Liberty Analytical. Corp.. WORKSHEET 1 I(8)

[illegible]	[illegible]
Glacial acetic acid (1:9) – N/A – (free cyanide only)	Mix one volume of glacial acetic acid with 9 volumes of DI water.
Acetate buffer – N/A – (free cyanide only)	Dissolve 410 g sodium acetate trihydrate in 500 mL DI water. Add glacial acetic acid (1:9) to yield a solution pH of 4.5 (approximately 500 mL).
Zinc acetate solution, 100 g/L – N/A – (free cyanide only)	Using a 1 L volumetric flask, dissolve 120 g zinc acetate in 500 mL of DI water. Dilute to volume with DI water.
Calcium Hypochlorite Soln. – N/A – (amenable cyanide only)	Dissolve 5g of calcium hypochlorite in 100 mL of DI water.

Reagent/Standard Solutions Prepared By: [signature] Date: 10/4/05

Entered By: [signature] Date: 10/4/05

Reviewed By: Susan W Bay Date: 10/10/05

The presence of the Chemist's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist together with the chemist's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

*Ref# = Logbook ID, Page number, and item number from Materials Receipt Log

**Standard Lot Number consists of standard ID, date prepared, and initials of preparer.

12/31/03:dce

C. Chain-of-Custody Documentation

The laboratory shall include a copy of the Chain-of-Custody (CoC) Documentation for all of the samples in the SDG. The CoC documentation shall be arranged in increasing Client Sample ID number order, considering both letters and numbers.

№ 007698

110

Page 1 of 1

CHAIN OF CUSTODY

CompuChem
a division of Liberty Analytical Corp.

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information	Project Information
Company Name: MWH	Project Name: ACS Residential
Address: 175 W. Jackson Blvd. Ste 1900	Sampling Location: Griffith, IN
City: Chicago State: IL Zip: 60604	Turnaround time: Specified in W.O.
Project Contact: Amy Clore	Batch QC or Project Specific? If Specific, which Sample ID?
Phone #: 312-831-3000	Are aqueous samples field filtered for metals? Y or N
Sampler's Name: A Clore / J Finger	Are high concentrations expected? Y or N? If yes, which ID(s)?

Requested Analysis (include method and bottle type)

Matrices: GW - Ground water; WW - Waste water; SW - Surface water; SO - Soil/Sediment; TB - Trip Blank; RI - Rinsate; WP - Wipe; O - Other

[illegible]	Field ID	Collection Date	Collection Time	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	MEOH	Other NONE	VOCs (low conc.)	SVOCs (low conc)	Pest. / PCBs (low conc)	Metals	Cyanide										
782901	ACS-GW-PWA-26	9/23	1000	GW	9	3	1	1			4	✓	✓	✓	✓	✓										<2 >12
782902	ACS-GW-PWDUP-26	9/23	1000	GW	9	3	1	1			4	✓	✓	✓	✓	✓										<2 >12

MS 9/26/05

Lab Use Only

Sample Unpacked By: Jennifer Dover
Sample Order Entry By: Melissa Gooss
Samples Received in Good Condition? Y or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or NA 90
625 & Phenol samples checked for chlorine? Y or NA
608 samples checked for pH between 5.0-9.0? Y or NA

Comments

Sample Custody

Relinquished by: Amy Clore	Date/Time: 9/23/05 1150	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by: Jennifer Dover	Date/Time: 9-26-05 9:00
Subcontact? Y or N If yes, where?		Custody Seal(s) intact? Y or N On Ice? Y or N	Cooler Temp: 5.2, 5.7 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

№ 007712

111

CHAIN OF CUSTODY

Page 1 of 1

CompuChem
a division of Liberty Analytical Corp.

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Courier
Airbill No.
Sampling Complete? (Y) or N

Company Name: MWH
Address: 175 W. Jackson Blvd. St 1900
City: Chicago State: IL Zip: 60604
Project Contact: Amy Clore
Phone #: 312-831-3000
Sampler's Name: J. Finger / A. Clore

Project Name: ACS Residential GW
Sampling Location: Griffith, IN
Turnaround time: Specified in Work Plan
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or (N)
Are high concentrations expected? Y or N? If yes, which ID(s)? N

Requested Analysis (include method and bottle type): Residential GW Complete

Matrices: GW - Ground water; WW - Waste water; SW - Surface water; SO - Soil/Sediment; TB - Trip Blank; RI - Rinsate; WP - Wipe; O - Other

	Field ID	Collection Date	Collection Time	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	MEOH	Other None	VOCs	SVOCs	Pest./PCBs	TAL Metals	Cyanide					
782903	ACS-GW-PWB-26	9/26	0830	GW	27	9	3	3			12	✓	✓	✓	✓	✓	<2 >12				
782904	ACS-GW-PWT-26	9/26	0940	GW	9	3	1	1			4	✓	✓	✓	✓	✓	<2 >12				
782905	ACS-GW-PWC-26	9/26	1020	GW	9	3	1	1			4	✓	✓	✓		✓	<2 >12				
782906	ACS-GW-PWTB-26	9/26	—	TB	1	1						✓									
782907	ACS-GW-PWD-26	9/26	1715	GW	9	3	1	1			4	✓	✓	✓	✓	✓	<2 >12				

Sample Unpacked By: [signature]
Sample Order Entry By: Melissa [signature]
Samples Received in Good Condition? Y or (N)
If no, explain:

Cyanide samples checked for sulfide & chlorine? (Y) or NA
625 & Phenol samples checked for chlorine? Y or (NA)
608 samples checked for pH between 5.0-9.0? Y or (NA)

Comments: Rec'd Broken
2-DL ACS GW-PWB-26 (1 Pest, 1 SVOC)
1-DL ACS GW-PWT-26 (SVOC)
1-

Relinquished by: Amy Clore — Date/Time: 9/26/05 1800 — Received by: [signature] — Date/Time:
Relinquished by: — Date/Time: — Received by: [signature] — Date/Time: 9-27-05 9:12
Subcontact? Y or (N) If yes, where? — Custody Seal(s) intact? Y or (N) cooler — On Ice? (Y) or N — Cooler Temp: 2.5 3.4, 2.0 2.3

Samples sto[...] days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

CompuChem

a division of Liberty Analytical Corp.

WORKORDER SUMMARY REPORT

Workorder: 7829 **Account:** MWH **Project:** ACS
SDG-Case: ACS **Status:** CLOSED **QC Type:** CLIENT SPECIFIC MS/MSD
Report Style: COMPUCHEM STYLE 9 WITH EDD AND CD

SAMPLE ID	CLIENT ID	COLLECT DATE	RECEIVE DATE	DUE DATE	COMMENTS
782901	ACSGWPWA26	9/23/2005	9/26/2005	10/10/2005	PPS1002/TCL4 8260 25ML, OLC3.2 SVOAS & PEST/PCBS, METALS & CN
W	VW82-25TC4	VOC 8260B 25ML TCL4 WATER			
W	GW32PPTCL	PST/PCB OLC03.2 TCL WATER			
W	SW32TCL	SVOC OLC03.2 TCL WATER			
W	WW9012CN	CYANIDE 9010B/9012A WATER			
W	MW7470HG	MERCURY ONLY 7470A WATER			
W	MW6010TAL	METAL 6010B TAL WATER			
782902	ACSGWPWDUP2	9/23/2005	9/26/2005	10/10/2005	PPS1002/TCL4 8260 25ML, OLC3.2 SVOAS & PEST/PCBS, METALS & CN
W	VW82-25TC4	VOC 8260B 25ML TCL4 WATER			
W	GW32PPTCL	PST/PCB OLC03.2 TCL WATER			
W	SW32TCL	SVOC OLC03.2 TCL WATER			
W	MW7470HG	MERCURY ONLY 7470A WATER			
W	WW9012CN	CYANIDE 9010B/9012A WATER			
W	MW6010TAL	METAL 6010B TAL WATER			
782903	ACSGWPWB26	9/26/2005	9/27/2005	10/10/2005	**USE FOR QC**PPS1002/TCL4 8260 25ML, OLC3.2 SVOAS & PEST/PCBS, METALS & CN
W	VW82-25TC4	VOC 8260B 25ML TCL4 WATER			
W	GW32PPTCL	PST/PCB OLC03.2 TCL WATER			
W	MW6010TAL	METAL 6010B TAL WATER			
W	SW32TCL	SVOC OLC03.2 TCL WATER			
W	MW7470HG	MERCURY ONLY 7470A WATER			
W	QCW-32PP	QC-OLC03.2 PP WATER			
W	QCW-6010	QC-6010B METALS WATER			
W	QCW-7470HG	QC-7470 HG WATER			
W	QCW-9012CN	QC-9012 CYANIDE WATER			
W	QCW-826025	QC-8260B 25ML VOC WATER			
W	QCW-32SV	QC-OLC03.2 SVOC WATER			
W	WW9012CN	CYANIDE 9010B/9012A WATER			
782904	ACSGWPWT26	9/26/2005	9/27/2005	10/10/2005	PPS1002/TCL4 8260 25ML, OLC3.2 SVOAS & PEST/PCBS, METALS & CN

CompuChem

a division of Liberty Analytical Corp.

WORKORDER SUMMARY REPORT

Workorder: 7829 **Account:** MWH **Project:** ACS
SDG-Case: ACS **Status:** CLOSED **QC Type:** CLIENT SPECIFIC MS/MSD
Report Style: COMPUCHEM STYLE 9 WITH EDD AND CD

SAMPLE ID	CLIENT ID	COLLECT DATE	RECEIVE DATE	DUE DATE	COMMENTS
W	VW82-25TC4	VOC 8260B 25ML TCL4 WATER			
W	GW32PPTCL	PST/PCB OLC03.2 TCL WATER			
W	SW32TCL	SVOC OLC03.2 TCL WATER			
W	WW9012CN	CYANIDE 9010B/9012A WATER			
W	MW7470HG	MERCURY ONLY 7470A WATER			
W	MW6010TAL	METAL 6010B TAL WATER			
782905	ACSGWPWC26	9/26/2005	9/27/2005	10/10/2005	PPS1002/TCL4 8260 25ML, OLC3.2 SVOAS & PEST/PCBS, METALS & CN
W	VW82-25TC4	VOC 8260B 25ML TCL4 WATER			
W	GW32PPTCL	PST/PCB OLC03.2 TCL WATER			
W	SW32TCL	SVOC OLC03.2 TCL WATER			
W	MW7470HG	MERCURY ONLY 7470A WATER			
W	WW9012CN	CYANIDE 9010B/9012A WATER			
W	MW6010TAL	METAL 6010B TAL WATER			
782906	ACSGWPWTB26	9/26/2005	9/27/2005	10/10/2005	PPS1002/TCL4 8260 25ML;TRIP BLANK**
W	VW82-25TC4	VOC 8260B 25ML TCL4 WATER			
782907	ACSGWPWD26	9/26/2005	9/27/2005	10/10/2005	PPS1002/TCL4 8260 25ML, OLC3.2 SVOAS & PEST/PCBS, METALS & CN
W	VW82-25TC4	VOC 8260B 25ML TCL4 WATER			
W	GW32PPTCL	PST/PCB OLC03.2 TCL WATER			
W	SW32TCL	SVOC OLC03.2 TCL WATER			
W	MW6010TAL	METAL 6010B TAL WATER			
W	MW7470HG	MERCURY ONLY 7470A WATER			
W	WW9012CN	CYANIDE 9010B/9012A WATER			

Internal Chain of Custody

CompuChem a division of Liberty Analytical

ICP ANALYSIS

Case:_____ SDG: 7829 Reprep

Matrix:_____

COC for: raw sample extract digestates leachates aliquots

CompuChem Numbers for Associated Samples

782901

782902

782903

782904

782905

782907

Released by	Received by	Date/Time	Reason
	ICP STORAGE	10-7-05 / 1600	STORAGE
ICP Storage		10-08-05 / 1000	Analysis
	ICP Storage	10-08-05 / 1000	Storage
	10/10/05		

This form generated on: 10/7/2005

Internal Chain of Custody

CompuChem a division of Liberty Analytical

HG ANALYSIS

Case:_____ SDG: 7829

Matrix:_____

COC for: raw sample extract (digestates) leachates aliquots

CompuChem Numbers for Associated Samples

782901	782902	782903	782904	782905	782907

Released by	Received by	Date/Time	Reason
Jati Jam	Hg Storage	09/29/05 / 1600	storage
Hg Storage	M Lett	9-29-05/4:00pm	analysis
M Lett	Waste.	9-30-05/8:00am	disposal
	QB 10/10/05		

This form generated on: 9/28/2005

CompuChem a Division of Liberty Analytical
Internal Chain of Custody

CN ANALYSIS

Batch No. 10672

EPA Case/SDG: 7829

Matrix: H2O

COC for: Distillates

CompuChem Numbers for Associated Samples

81558	81559	81560	81561	81562	782901
782902	782903	782904	782905	782907	

Released by	Received by	Date/Time	Reason
JM	Wetchem storage	10/1/05	storage
Wetchem storage	JM	10/5/05	Analysis
JM	Wetchem storage	10/5/05	storage
	10/10/05		

dce:1/5/05

CompuChem a Division of Liberty Analytical
Internal Chain of Custody

CYANIDE RAW SAMPLE

Laboratory: Wet Chemistry Requested By: _____

Matrix: H2O Date: 9/30/2005

Batch No: 10672 EPA Case/SDG: 7829

	CCN	Receipt Date	Preservation	Container Type	Container ID
1	782901	09/26/05	NaOH	250ML_PL	782901-9
2	782902	09/26/05	NaOH	250ML_PL	782902-9
3	782903	09/27/05	NaOH	250ML_PL	782903-23
4	782904	09/27/05	NaOH	250ML_PL	782904-8
5	782905	09/27/05	NaOH	250ML_PL	782905-9
6	782907	09/27/05	NaOH	250ML_PL	782907-9
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Released by	Received by	Date/Time	Reason
	10/10/05		
cooler #1		10/4/05	
	cooler #1	10/5/05	
	10/10/05		

CompuChem

a division of Liberty Analytical

INTERNAL CHAIN OF CUSTODY

Laboratory: Metals **Matrix:** W

Request Date: _____ **Batch:** 7463

Comments: _____

	CCN	Receipt Date	Analysis Param	Container	Preservative	Bottle
1	782901	9/26/2005	MW6010X	500ML_PL	HNO3	782901-8
2	782902	9/26/2005	MW6010X	500ML_PL	HNO3	782902-8
* 3	782903	9/27/2005	MW6010X	500ML_PL	HNO3	782903-20
4	782903	9/27/2005	MW6010X	250ML_PL	NaOH	782903-25
5	782904	9/27/2005	MW6010X	500ML_PL	HNO3	782904-7
6	782905	9/27/2005	MW6010X	500ML_PL	HNO3	782905-8
7	782907	9/27/2005	MW6010X	500ML_PL	HNO3	782907-8

Bottle 1 of 2 empty to 09/29/05

* DENOTES ENTIRE SAMPLE USED AND BOTTLE DISPOSED OF.

Relinquished By:	Received By:	Date/Time
[signature]	[signature]	9-28-05 2:25
[signature]	[signature]	9-28-05 2:26
[signature]	[signature]	9-28-05 3:15
	10/10/05	

Internal Chain of Custody

CompuChem a division of Liberty Analytical Corp. *RAW SAMPLE*

Laboratory: INORGANICS Requested By: P.D

Water X Soil _____ P.E. _____ Date: 10-7-05

EPA _____ Commercial _____ Shift: (1) 2 3

This form generated on: 10/7/2005

	CCN	Receipt Date	Preservation	Analysis Parameter	Bottle Number (receiving use only)
1	782901	09/26/05	HNO3	METALS HG	of
2	782902	09/26/05	HNO3	METALS HG	of
3	782903	09/27/05	HNO3	METALS HG	of
4	782904	09/27/05	HNO3	METALS HG	of
5	782905	09/27/05	HNO3	METALS HG	of
6	782907	09/27/05	HNO3	METALS HG	of
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Relinquished By: cooler to ambient storage Received By: J Dorea Date: 10/7/05 Time: 8:55

Relinquished By: J Dorea Received By: _____ Date: 10-7-05 Time: 855

Relinquished By: _____ Received By: AMBIENT STORAGE Date: 10-7-05 Time: 4^00

ACS-89
Data Validation Reports
LDC# 14146

Metals

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: ACS-89

Collection Date: September 23 through September 26, 2005

LDC Report Date: October 19, 2005

Matrix: Water

Parameters: Metals

Validation Level: EPA Level IV

Laboratory: CompuChem

Sample Delivery Group (SDG): 7829

Sample Identification

ACSGWPWA26
ACSGWPWDUP26
ACSGWPWB26
ACSGWPWT26
ACSGWPWC26
ACSGWPWD26
ACSGWPWB26MS
ACSGWPWB26MSD
ACSGWPWB26DUP

Introduction

This data review covers 9 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Methods 6010B and 7000 for Metals. The metals analyzed were Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, and Zinc.

This review follows the Remedial Design/Remedial Action PRP - Lead Project Quality Assurance Project Plan (November 2001, Rev. 0) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (October 2004) as there are no current guidelines for the methods stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified a P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blanks are summarized in Section III.

Field duplicates are summarized in Section XIII.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

B Compound or analyte was positively detected in a sample and in an associated blank.

UB Compound or analyte is not detected at or above the indicated concentration due to blank contamination.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

An initial calibration was performed.

The frequency and analysis criteria of the initial calibration verification (ICV) and continuing calibration verification (CCV) were met.

III. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the initial, continuing and preparation blanks with the following exceptions:

Method Blank ID	Analyte	Maximum Concentration	Associated Samples
PB (prep blank)	Barium Beryllium Chromium Iron Magnesium Manganese Zinc	0.726 ug/L 0.177 ug/L 1.177 ug/L 28.435 ug/L 175.901 ug/L 0.496 ug/L 2.900 ug/L	All samples in SDG 7829
ICB/CCB	Aluminum Barium Beryllium Calcium Lead Magnesium Manganese Thallium Zinc	24.2 ug/L 0.8 ug/L 0.5 ug/L 125.4 ug/L 1.7 ug/L 187.1 ug/L 0.4 ug/L 4.2 ug/L 2.5 ug/L	All samples in SDG 7829

Data qualification by the initial, continuing and preparation blanks (ICB/CCB/PBs) was based on the maximum contaminant concentration in the ICB/CCB/PBs in the analysis of each analyte. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated method blanks with the following exceptions:

Sample	Analyte	Reported Concentration	Modified Final Concentration
ACSGWPWA26	Barium	113 ug/L	113B ug/L
	Beryllium	0.15 ug/L	0.15UB ug/L
	Calcium	80300 ug/L	80300B ug/L
	Iron	1880 ug/L	1880B ug/L
	Magnesium	41000 ug/L	41000B ug/L
	Manganese	32.5 ug/L	32.5B ug/L
	Zinc	2.9 ug/L	2.9UB ug/L
ACSGWPWDUP26	Barium	109 ug/L	109B ug/L
	Beryllium	0.17 ug/L	0.17UB ug/L
	Calcium	77900 ug/L	77900B ug/L
	Iron	1810 ug/L	1810B ug/L
	Magnesium	39500 ug/L	39500B ug/L
	Manganese	31.4 ug/L	31.4B ug/L
	Zinc	2.9 ug/L	2.9UB ug/L
ACSGWPWB26	Barium	112 ug/L	112B ug/L
	Beryllium	0.17 ug/L	0.17UB ug/L
	Calcium	82100 ug/L	82100B ug/L
	Iron	3600 ug/L	3600B ug/L
	Lead	3.2 ug/L	3.2UB ug/L
	Magnesium	38600 ug/L	38600B ug/L
	Manganese	60.6 ug/L	60.6B ug/L
	Zinc	8.9 ug/L	8.9UB ug/L
ACSGWPWT26	Barium	127 ug/L	127B ug/L
	Beryllium	0.22 ug/L	0.22UB ug/L
	Calcium	85800 ug/L	85800B ug/L
	Iron	2180 ug/L	2180B ug/L
	Magnesium	45500 ug/L	45500B ug/L
	Manganese	32.2 ug/L	32.2B ug/L
	Zinc	21.8 ug/L	21.8B ug/L
ACSGWPWC26	Barium	125 ug/L	125B ug/L
	Beryllium	0.18 ug/L	0.18UB ug/L
	Calcium	79600 ug/L	79600B ug/L
	Iron	2160 ug/L	2160B ug/L
	Magnesium	43100 ug/L	43100B ug/L
	Manganese	30.1 ug/L	30.1B ug/L
ACSGWPWD26	Barium	125 ug/L	125B ug/L
	Beryllium	0.20 ug/L	0.20UB ug/L
	Calcium	84900 ug/L	84900B ug/L
	Iron	1700 ug/L	1700B ug/L
	Lead	1.8 ug/L	1.8UB ug/L
	Magnesium	44000 ug/L	44000B ug/L
	Manganese	28.7 ug/L	28.7B ug/L
	Zinc	10.0 ug/L	10.0UB ug/L

No field blanks were identified in this SDG.

IV. ICP Interference Check Sample (ICS) Analysis

The frequency of analysis was met.

The criteria for analysis were met.

V. Matrix Spike Analysis

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Analyte	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)	Flag	A or P
ACSGWPWB26MS/MSD (All samples in SDG 7829)	Selenium	70.0 (75-125)	-	-	J (all detects) UJ (all non-detects)	A

VI. Duplicate Sample Analysis

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits.

VII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VIII. Internal Standards

ICP-MS was not utilized in this SDG.

IX. Furnace Atomic Absorption QC

Graphite furnace atomic absorption was not utilized in this SDG.

X. ICP Serial Dilution

ICP serial dilution analysis was performed by the laboratory. The analysis criteria were met.

XI. Sample Result Verification

All sample result verifications were acceptable.

The QAPP reporting limits were met with the following exceptions:

Sample	Analyte	Finding	Criteria	Flag	A or P
All samples in SDG 7829	Silver	Laboratory reporting limit reported at 1.3 ug/L.	Reporting limit should be reported at 0.5 ug/L per the QAPP.	None	P

XII. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XIII. Field Duplicates

Samples ACSGWPWA26 and ACSGWPWDUP26 were identified as field duplicates. No metals were detected in any of the samples with the following exceptions:

Analyte	Concentration (ug/L)		RPD
	ACSGWPWA26	ACSGWPWDUP26	
Antimony	4.4	3.7U	200
Barium	113	109	4
Beryllium	0.15	0.17	13
Calcium	80300	77900	3
Iron	1880	1810	4
Magnesium	41000	39500	4
Manganese	32.5	31.4	3
Nickel	1.3	1.3U	200
Potassium	1630	1590	2
Sodium	21400	20900	2
Zinc	2.9	2.9	0

ACS-89
Metals - Data Qualification Summary - SDG 7829

SDG	Sample	Analyte	Flag	A or P	Reason
7829	ACSGWPWA26 ACSGWPWDUP26 ACSGWPWB26 ACSGWPWT26 ACSGWPWC26 ACSGWPWD26	Selenium	J (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicates (%R)
7829	ACSGWPWA26 ACSGWPWDUP26 ACSGWPWB26 ACSGWPWT26 ACSGWPWC26 ACSGWPWD26	Silver	None	P	Sample result verification

ACS-89
Metals - Laboratory Blank Data Qualification Summary - SDG 7829

SDG	Sample	Analyte	Modified Final Concentration	A or P
7829	ACSGWPWA26	Barium Beryllium Calcium Iron Magnesium Manganese Zinc	113B ug/L 0.15UB ug/L 80300B ug/L 1880B ug/L 41000B ug/L 32.5B ug/L 2.9UB ug/L	A
7829	ACSGWPWDUP26	Barium Beryllium Calcium Iron Magnesium Manganese Zinc	109B ug/L 0.17UB ug/L 77900B ug/L 1810B ug/L 39500B ug/L 31.4B ug/L 2.9UB ug/L	A
7829	ACSGWPWB26	Barium Beryllium Calcium Iron Lead Magnesium Manganese Zinc	112B ug/L 0.17UB ug/L 82100B ug/L 3600B ug/L 3.2UB ug/L 38600B ug/L 60.6B ug/L 8.9UB ug/L	A

SDG	Sample	Analyte	Modified Final Concentration	A or P
7829	ACSGWPWT26	Barium Beryllium Calcium Iron Magnesium Manganese Zinc	127B ug/L 0.22UB ug/L 85800B ug/L 2180B ug/L 45500B ug/L 32.2B ug/L 21.8B ug/L	A
7829	ACSGWPWC26	Barium Beryllium Calcium Iron Magnesium Manganese	125B ug/L 0.18UB ug/L 79600B ug/L 2160B ug/L 43100B ug/L 30.1B ug/L	A
7829	ACSGWPWD26	Barium Beryllium Calcium Iron Lead Magnesium Manganese Zinc	125B ug/L 0.20UB ug/L 84900B ug/L 1700B ug/L 1.8UB ug/L 44000B ug/L 28.7B ug/L 10.0UB ug/L	A

ACS-89
Metals - Field Blank Data Qualification Summary - SDG 7829

No Sample Data Qualified in this SDG

SW846-METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.: ACSGWPWA26

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix (soil/water): WATER Lab Sample ID: 782901

Level (low/med): LOW Date Received: 09/26/05

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	13.0	U		P	
7440-36-0	Antimony	4.4	B		P	
7440-38-2	Arsenic	3.7	U		P	
7440-39-3	Barium	113	B		P	B
7440-41-7	Beryllium	0.15	B		P	UB
7440-43-9	Cadmium	0.50	U		P	
7440-70-2	Calcium	80300			P	B
7440-47-3	Chromium	1.1	U		P	
7440-48-4	Cobalt	1.1	U		P	
7440-50-8	Copper	0.80	U		P	
7439-89-6	Iron	1880			P	B
7439-92-1	Lead	1.6	U		P	
7439-95-4	Magnesium	41000			P	B
7439-97-6	Mercury	0.10	U		CV	
7439-96-5	Manganese	32.5			P	B
7440-02-0	Nickel	1.3	B		P	
7440-09-7	Potassium	1630	B		P	
7782-49-2	Selenium	4.5	U	N	P	UJ
7440-22-4	Silver	1.3	U		P	
7440-23-5	Sodium	21400			P	
7440-28-0	Thallium	4.0	U		P	
7440-62-2	Vanadium	0.80	U		P	
7440-66-6	Zinc	2.9	B		P	UB
~~57-12-5~~	~~Cyanide~~	~~2.8~~	~~U~~		~~AS~~	

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments: 1411 10/31/05

SW846-METALS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ACSGWPWB26

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix (soil/water): WATER Lab Sample ID: 782903

Level (low/med): LOW Date Received: 09/27/05

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	13.0	U		P	
7440-36-0	Antimony	3.7	U		P	
7440-38-2	Arsenic	3.7	U		P	
7440-39-3	Barium	112	B		P	B
7440-41-7	Beryllium	0.17	B		P	UB
7440-43-9	Cadmium	0.50	U		P	
7440-70-2	Calcium	82100			P	B
7440-47-3	Chromium	1.1	U		P	
7440-48-4	Cobalt	1.1	U		P	
7440-50-8	Copper	3.9	B		P	
7439-89-6	Iron	3600			P	B
7439-92-1	Lead	3.2			P	UB
7439-95-4	Magnesium	38600			P	B
7439-97-6	Mercury	0.10	U		CV	
7439-96-5	Manganese	60.6			P	B
7440-02-0	Nickel	1.3	U		P	
7440-09-7	Potassium	1280	B		P	
7782-49-2	Selenium	4.5	U	N	P	UJ
7440-22-4	Silver	1.3	U		P	
7440-23-5	Sodium	21300			P	
7440-28-0	Thallium	4.0	U		P	
7440-62-2	Vanadium	0.80	U		P	
7440-66-6	Zinc	8.9	B		P	UB
~~57-12-5~~	~~Cyanide~~	~~2.8~~	~~U~~		~~AS~~	

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments: 11/03/05

SW846-METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
ACSGWPWC26

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix (soil/water): WATER Lab Sample ID: 782905

Level (low/med): LOW Date Received: 09/27/05

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	13.0	U		P	
7440-36-0	Antimony	3.7	U		P	
7440-38-2	Arsenic	3.7	U		P	
7440-39-3	Barium	125	B		P	B
7440-41-7	Beryllium	0.18	B		P	uB
7440-43-9	Cadmium	0.50	U		P	
7440-70-2	Calcium	79600			P	B
7440-47-3	Chromium	1.1	U		P	
7440-48-4	Cobalt	1.1	U		P	
7440-50-8	Copper	0.80	U		P	
7439-89-6	Iron	2160			P	B
7439-92-1	Lead	1.6	U		P	
7439-95-4	Magnesium	43100			P	B
7439-97-6	Mercury	0.10	U		CV	
7439-96-5	Manganese	30.1			P	B
7440-02-0	Nickel	1.8	B		P	
7440-09-7	Potassium	1650	B		P	
7782-49-2	Selenium	4.5	U	N	P	uJ
7440-22-4	Silver	1.3	U		P	
7440-23-5	Sodium	17000			P	
7440-28-0	Thallium	4.0	U		P	
7440-62-2	Vanadium	0.80	U		P	
7440-66-6	Zinc	1.3	U		P	
~~57-12-5~~	~~Cyanide~~	~~2.8~~	~~U~~		~~AS~~	

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments: 14H10305

SW846-METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
ACSGWPWD26

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix (soil/water): WATER Lab Sample ID: 782907

Level (low/med): LOW Date Received: 09/27/05

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	13.0	U		P	
7440-36-0	Antimony	3.7	U		P	
7440-38-2	Arsenic	3.7	U		P	
7440-39-3	Barium	125	B		P	B
7440-41-7	Beryllium	0.20	B		P	uB
7440-43-9	Cadmium	0.50	U		P	
7440-70-2	Calcium	84900			P	B
7440-47-3	Chromium	1.1	U		P	
7440-48-4	Cobalt	1.1	U		P	
7440-50-8	Copper	2.2	B		P	
7439-89-6	Iron	1700			P	B
7439-92-1	Lead	1.8	B		P	uB
7439-95-4	Magnesium	44000			P	B
7439-97-6	Mercury	0.10	U		CV	
7439-96-5	Manganese	28.7			P	B
7440-02-0	Nickel	1.3	U		P	
7440-09-7	Potassium	1670	B		P	
7782-49-2	Selenium	4.5	U	N	P	uJ
7440-22-4	Silver	1.3	U		P	
7440-23-5	Sodium	18300			P	
7440-28-0	Thallium	4.0	U		P	
7440-62-2	Vanadium	0.80	U		P	
7440-66-6	Zinc	10.0	B		P	uB
~~57-12-5~~	~~Cyanide~~	~~2.0~~	~~U~~		~~AS~~	

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments: 1HH10/3/05

SW846-METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
ACSGWPWDUP26

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix (soil/water): WATER Lab Sample ID: 782902

Level (low/med): LOW Date Received: 09/26/05

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	13.0	U		P	
7440-36-0	Antimony	3.7	U		P	
7440-38-2	Arsenic	3.7	U		P	
7440-39-3	Barium	109	B		P	B
7440-41-7	Beryllium	0.17	B		P	uB
7440-43-9	Cadmium	0.50	U		P	
7440-70-2	Calcium	77900			P	B
7440-47-3	Chromium	1.1	U		P	
7440-48-4	Cobalt	1.1	U		P	
7440-50-8	Copper	0.80	U		P	
7439-89-6	Iron	1810			P	B
7439-92-1	Lead	1.6	U		P	
7439-95-4	Magnesium	39500			P	B
7439-97-6	Mercury	0.10	U		CV	
7439-96-5	Manganese	31.4			P	B
7440-02-0	Nickel	1.3	U		P	
7440-09-7	Potassium	1590	B		P	
7782-49-2	Selenium	4.5	U	N	P	uJ
7440-22-4	Silver	1.3	U		P	
7440-23-5	Sodium	20900			P	
7440-28-0	Thallium	4.0	U		P	
7440-62-2	Vanadium	0.80	U		P	
7440-66-6	Zinc	2.9	B		P	uB
~~57-12-5~~	~~Cyanide~~	~~2.8~~	~~U~~		~~AS~~	

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments: uu 10/3/05

SW846-METALS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ACSGWPWT26

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix (soil/water): WATER Lab Sample ID: 782904

Level (low/med): LOW Date Received: 09/27/05

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	13.0	U		P	
7440-36-0	Antimony	3.7	B		P	
7440-38-2	Arsenic	3.7	U		P	
7440-39-3	Barium	127	B		P	B
7440-41-7	Beryllium	0.22	B		P	UB
7440-43-9	Cadmium	0.50	U		P	
7440-70-2	Calcium	85800			P	B
7440-47-3	Chromium	1.1	U		P	
7440-48-4	Cobalt	1.1	U		P	
7440-50-8	Copper	0.80	U		P	
7439-89-6	Iron	2180			P	B
7439-92-1	Lead	1.6	U		P	
7439-95-4	Magnesium	45500			P	B
7439-97-6	Mercury	0.10	U		CV	
7439-96-5	Manganese	32.2			P	B
7440-02-0	Nickel	1.3	U		P	
7440-09-7	Potassium	1770	B		P	
7782-49-2	Selenium	4.5	U	N	P	UJ
7440-22-4	Silver	1.3	U		P	
7440-23-5	Sodium	19000			P	
7440-28-0	Thallium	4.0	U		P	
7440-62-2	Vanadium	0.80	U		P	
7440-66-6	Zinc	21.8			P	B
~~57-12-5~~	~~Cyanide~~	~~2.8~~	~~U~~		~~AS~~	

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments: MH 10/31/05

LDC #: 14146A4 **VALIDATION COMPLETENESS WORKSHEET** Date: 10-18-05
SDG #: 7829 Level IV Page: 1 of 1
Laboratory: CompuChem Reviewer: MG
2nd Reviewer: M

METHOD: Metals (EPA SW 846 Method 6010B/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 9-23-05 through 9-26-05
II.	Calibration	A	
III.	Blanks	SW	
IV.	ICP Interference Check Sample (ICS) Analysis	A	
V.	Matrix Spike Analysis	SW	MS/MSD
VI.	Duplicate Sample Analysis	A	DUP
VII.	Laboratory Control Samples (LCS)	A	LCS
VIII.	Internal Standard (ICP-MS)	N	Not utilized
IX.	Furnace Atomic Absorption QC	N	" "
X.	ICP Serial Dilution	A	
XI.	Sample Result Verification	SW	
XII.	Overall Assessment of Data	A	
XIII.	Field Duplicates	SW	D = 1+2
XIV.	Field Blanks	N	

Note: A = Acceptable ND = No compounds detected D = Duplicate
N = Not provided/applicable R = Rinsate TB = Trip blank
SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples:
all water

1	ACSGWPWA26	11		21		31	
2	ACSGWPWDUP26	12		22		32	
3	ACSGWPWB26	13		23		33	
4	ACSGWPWT26	14		24		34	
5	ACSGWPWC26	15		25		35	
6	ACSGWPWD26	16		26		36	
7	ACSGWPWB26MS	17		27		37	
8	ACSGWPWB26MSD	18		28		38	
9	ACSGWPWB26DUP	19		29		39	
10	PBW	20		30		40	

Notes:

LDC #: 14146A4
SDG #: 7829

VALIDATION FINDINGS CHECKLIST

Reviewer: MG
2nd Reviewer: MM

Method: Metals (EPA SW 846 Method 6010/7000/6020)

Validation Area	Yes	No	NA	Findings/Comments
Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
Calibration				
Were all instruments calibrated daily, each set-up time?	✓			
Were the proper number of standards used?	✓			
Were all initial and continuing calibration verification %Rs within the 90-110% (80-120% for mercury and 85-115% for cyanide) QC limits?	✓			
Were all initial calibration correlation coefficients > 0.995? (Level IV only)	✓			
Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	✓			
ICP Interference Check Sample (ICS) Analysis				
Were ICP interference check samples performed daily?	✓			
Were the AB solution percent recoveries (%R) with the 80-120% QC limits?	✓			
Matrix spike/matrix spike duplicates				
Were a matrix spike (MS) and duplicate (DUP) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD or MS/DUP. Soil / Water.	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the 75-125 QC limits? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.		✓		
Were the MS/MSD or duplicate relative percent differences (RPD) ≤ 20% for waters and ≤ 35% for soil samples? A control limit of +/- RL(+/-2X RL for soil) was used for samples that were ≤ 5X the RL, including when only one of the duplicate sample values were < 5X the RL.	✓			
Laboratory control samples				
Was an LCS anaytzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the 80-120% QC limits for water samples and laboratory established QC limits for soils?	✓			
VI Furnace Atomic Absorption QC				
If MSA was performed, was the correlation coefficients > 0.995?			✓	
Do all applicable analysies have duplicate injections? (Level IV only)			✓	
For sample concentrations > RL, are applicable duplicate injection RSD values < 20%? (Level IV only)			✓	
Were analytical spike recoveries within the 85-115% QC limits?			✓	

LDC #: 14146A4
SDG #: 7829

VALIDATION FINDINGS CHECKLIST

Reviewer: MG
2nd Reviewer: MM

Validation Area	Yes	No	NA	Findings/Comments
VIII. ICP Serial Dilutions				
Was an ICP serial dilution analyzed if analyte concentrations were > 50X the IDL?	✓			
Were all percent differences (%Ds) < 10%?	✓			
Was there evidence of negative interference? If yes, professional judgement will be used to qualify the data.		✓		
IX. Internal Standards (ICP-MS Methods)				
Were all the percent recoveries (%R) within the 30-120% of the intensity of the internal standard in the associated initial calibration?			✓	
If the %Rs were outside the criteria, was a reanalysis performed?			✓	
X. Furnace Atomic Absorption Quality Control				
Were performance evaluation (PE) samples performed?		✓		
Were the performance evaluation (PE) samples within the acceptance limits?			✓	
XI. Sample Result Verification				
Were RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XII. Overall Assessment of Data				
Overall assessment of data was found to be acceptable.	✓			
XIII. Field Duplicates				
Field duplicate pairs were identified in this SDG.	✓			
Target analytes were detected in the field duplicates.	✓			
XIV. Field Blanks				
Field blanks were identified in this SDG.		✓		
Target analytes were detected in the field blanks.			✓	

LDC #: 14146A4
SDG #: 7899

VALIDATION FINDINGS WORKSHEET
Sample Specific Element Reference

Page: 1 of 1
Reviewer: MG
2nd reviewer: MM

All circled elements are applicable to each sample.

Sample ID	Matrix	Target Analyte List (TAL)
1 → 6	W	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
ac 7, 8	↓	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
↓ 9	↓	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
Analysis Method		
ICP		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
ICP Trace	W	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
ICP-MS		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN, ___ ___
GFAA		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN,

Comments: Mercury by CVAA if performed

Qual ≤ 5x UB
> 5x B

LDC #: 14146A4
SDG #: 7829

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

Page: 1 of 1
Reviewer: MG
2nd Reviewer: MG

METHOD: Trace Metals (EPA SW 846 Method 6010/7000) Soil preparation factor applied: NA
Sample Concentration units, unless otherwise noted: ug/L Associated Samples: all

Analyte	Maximum PB* (mg/Kg)	Maximum PB* (ug/L)	Maximum ICB/CCB* (ug/L)	Blank Action Limit	Sample Identification 1	2	3	4	5	6					Analyte
Al			24.2	121.0											Al
Sb															Sb
As															As
Ba		0.726	0.8	4.00	113 B	109 B	112 B	127 B	125 B	125 B					Ba
Be		0.177	0.5	2.50	0.15	0.17	0.17	0.22	0.18	0.20					Be
Cd															Cd
Ca			125.4	627.0	80300 B	77900 B	82100 B	85800 B	79600 B	84900 B					Ca
Cr		1.177		5.88											Cr
Co															Co
Cu															Cu
Fe		28.435		142.2	1880 B	1810 B	3600 B	2180 B	2160 B	1700 B					Fe
Pb			1.7	8.50			3.2			1.8					Pb
Mg		175.901	187.1	935.5	41000 B	39500 B	38600 B	45500 B	43100 B	44000 B					Mg
Mn		0.496	0.4	2.48	32.5 B	31.4 B	60.6 B	32.2 B	30.1 B	28.7 B					Mn
Hg															Hg
Ni															Ni
K															K
Se															Se
Ag															Ag
Na															Na
Tl			4.2	21.00											Tl
V															V
Zn		2.900	2.5	14.50	2.9	2.9	8.9	21.8 B		10.0					Zn
B															B
Mo															Mo
Sr															Sr

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U".
Note : a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.

LDC #: 14146A4
SDG #: 7029

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates

Reviewer: MG
2nd Reviewer: MG

METHOD: Trace metals (EPA SW 846 Method 6010/7000)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Was a matrix spike analyzed for each matrix in this SDG?

Y (N) N/A Were matrix spike percent recoveries (%R) within the control limits of 75-125? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.

(Y) N N/A Were all duplicate sample relative percent differences (RPD) ≤ 20% for water samples and ≤35% for soil samples?

LEVEL IV ONLY:

(Y) N N/A Were recalculated results acceptable? See Level IV Recalculation Worksheet for recalculations.

#	MS/MSD ID	Matrix	Analyte	MS %Recovery	MSD %Recovery	RPD (Limits)	Associated Samples	Qualifications
1	7/8	water	Se	70.0 (75-125)			all	J/UJ/A

Comments: _____

LDC #: 14146A4
SDG #: 7829

VALIDATION FINDINGS WORKSHEET
Sample Result Verification

Reviewer: MG
2nd Reviewer MY

METHOD: Trace metals (EPA SW-846 6010/7000)

#	Sample ID	Analyte	Lab IDL Result (units)	QAPP RL (units)	Finding	Qualifications
1	all	Ag	1.3 (mg/L)	0.5 (mg/L)	Lab R.L. > QAPP	None / P

Comments:

LDC#: 14146A4
SDG#: 7829

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Reviewer: MG
2nd Reviewer: MM

METHOD: Metals (EPA Method 6010B/7000)

(Y)N NA Were field duplicate pairs identified in this SDG?
(Y)N NA Were target analytes detected in the field duplicate pairs?

Compound	Concentration (ug/L)		RPD	
	1	2		
Antimony	4.4	3.7U	200	
Barium	113	109	4	
Beryllium	0.15	0.17	13	
Calcium	80300	77900	3	
Iron	1880	1810	4	
Magnesium	41000	39500	4	
Manganese	32.5	31.4	3	
Nickel	1.3	1.3U	200	
Potassium	1630	1590	2	
Sodium	21400	20900	2	
Zinc	2.9	2.9	0	

LDC #: 14146A4
SDG #: 7829

VALIDATION FINDINGS WORKSHEET
Initial and Continuing Calibration Calculation Verification

Reviewer: MG
2nd Reviewer: [illegible]

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

An initial and continuing calibration verification percent recovery (%R) was recalculated for each type of analysis using the following formula:

%R = Found x 100 / True

Where, Found = concentration (in ug/L) of each analyte measured in the analysis of the ICV or CCV solution
True = concentration (in ug/L) of each analyte in the ICV or CCV source

Standard ID	Type of Analysis	Element	Found (ug/L)	True (ug/L)	Recalculated %R	Reported %R	Acceptable (Y/N)
1151 ICV	ICP (Initial calibration)	Pb	994.3545	996.0	99.8	99.8	Y
	GFAA (Initial calibration)						
1645 ICV	CVAA (Initial calibration)	Hg	3.975	4.1	97.0	97.1	
1233 CCV1	ICP (Continuing calibration)	K	50813.95	50000.0	101.6	101.6	
	GFAA (Continuing calibration)						
1719 CCV2	CVAA (Continuing calibration)	Hg	5.021	5.0	100.4	100.4	
	ICP/MS (Initial calibration)						
	ICP/MS (Continuing calibation)						

Comments: Refer to Calibration Verification findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 14146A4
SDG #: 7829

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

Page: 1 of 1
Reviewer: MG
2nd Reviewer: MM

METHOD: Trace Metals (EPA SW 846 Method 6010/7000)

Percent recoveries (%R) for an ICP interference check sample, a laboratory control sample and a matrix spike sample were recalculated using the following formula:

$\%R = \frac{Found}{True} \times 100$ Where, Found = Concentration of each analyte measured in the analysis of the sample. For the matrix spike calculation, Found = SSR (spiked sample result) - SR (sample result).
True = Concentration of each analyte in the source.

A sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

$RPD = \frac{|S-D|}{(S+D)/2} \times 100$ Where, S = Original sample concentration
D = Duplicate sample concentration

An ICP serial dilution percent difference (%D) was recalculated using the following formula:

$\%D = \frac{|I-SDR|}{I} \times 100$ Where, I = Initial Sample Result (mg/L)
SDR = Serial Dilution Result (mg/L) (Instrument Reading x 5)

Sample ID	Type of Analysis	Element	Found / S / I (units)	True / D / SDR (units)	Recalculated %R / RPD / %D	Reported %R / RPD / %D	Acceptable (Y/N)
1226 ICSAB	ICP interference check	Cr	509.7249 (µg/L)	506 (µg/L)	100.7	100.8	Y
1307 LCS	Laboratory control sample	As	964.4791 (µg/L)	1000.0 (µg/L)	96.4	96.4	
1308 7	Matrix spike	Se	(SSR-SR) 6.996525 (µg/L)	10.00 (µg/L)	70.0	70.0	
1314 / 1321 9	Duplicate	Zn	8.924003 (µg/L)	9.193747 (µg/L)	3.0	3.0	
1314 / 1342 3	ICP serial dilution	Ca	82117.71 (µg/L)	89414.65 (µg/L)	8.9	8.9	

Comments: Refer to appropriate worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 14146A4
SDG #: 7829

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: MG
2nd reviewer: [illegible]

METHOD: Trace Metals (EPA SW 846 Method 6010/7000)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Have results been reported and calculated correctly?
(Y) N N/A Are results within the calibrated range of the instruments and within the linear range of the ICP?
(Y) N N/A Are all detection limits below the CRDL?

Detected analyte results for #3, Ba were recalculated and verified using the following equation:

Concentration = $\frac{(RD)(FV)(DIl)}{(In.\ Vol.)(\%S)}$

RD = Raw data concentration
FV = Final volume (ml)
In. Vol. = Initial volume (ml) or weight (G)
DIl = Dilution factor
%S = Decimal percent solids

Recalculation:

$$\frac{(112.2367\ mg/L)(0.050\ L)(1)}{0.050\ L} = 112.2367\ mg/L$$

Sample ID	Analyte	Reported Concentration (mg/L)	Calculated Concentration (mg/L)	Acceptable (Y/N)
3	Ba	112	112	Y
	Be	0.17	0.17	
	Ca	82100	82100	
	Cu	3.9	3.9	
	Fe	3600	3600	
	Pb	3.2	3.2	
	Mg	38600	38600	
	Mn	60.6	60.6	
	K	1280	1280	
	Na	21300	21300	
	Zn	8.9	8.9	

ACS-89
Data Validation Reports
LDC# 14146

Cyanide

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: ACS-89

Collection Date: September 23 through September 26, 2005

LDC Report Date: October 19, 2005

Matrix: Water

Parameters: Cyanide

Validation Level: EPA Level IV

Laboratory: CompuChem

Sample Delivery Group (SDG): 7829

Sample Identification

ACSGWPWA26
ACSGWPWDUP26
ACSGWPWB26
ACSGWPWT26
ACSGWPWC26
ACSGWPWD26
ACSGWPWB26MS
ACSGWPWB26MSD
ACSGWPWB26DUP

Introduction

This data review covers 9 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Methods 9010B/9012A for Cyanide.

This review follows the Remedial Design/Remedial Action PRP - Lead Project Quality Assurance Project Plan (November 2001, Rev. 0) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (October 2004) as there are no current guidelines for the methods stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified a P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section III.

Field duplicates are summarized in Section IX.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

B Compound or analyte was positively detected in a sample and in an associated blank.

UB Compound or analyte is not detected at or above the indicated concentration due to blank contamination.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

a. Initial Calibration

All criteria for the initial calibration were met.

b. Calibration verification

Calibration verification frequency and analysis criteria were met.

III. Blanks

Method blanks were reviewed for each matrix as applicable. No cyanide was found in the method blanks.

No field blanks were identified in this SDG.

IV. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

V. *Duplicates*

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits.

VI. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VII. Sample Result Verification

All sample result verifications were acceptable.

VIII. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

ACS-89
Cyanide - Data Qualification Summary - SDG 7829

No Sample Data Qualified in this SDG

ACS-89
Cyanide - Laboratory Blank Data Qualification Summary - SDG 7829

No Sample Data Qualified in this SDG

ACS-89
Cyanide - Field Blank Data Qualification Summary - SDG 7829

No Sample Data Qualified in this SDG

SW846-METALS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ACSGWPWB26

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix (soil/water): WATER Lab Sample ID: 782903

Level (low/med): LOW Date Received: 09/27/05

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
~~7429-90-5~~	~~Aluminum~~	~~13.0~~	~~U~~		~~P~~
7440-36-0	Antimony	3.7	U		P
7440-38-2	Arsenic	3.7	U		P
7440-39-3	Barium	112	B		P
7440-41-7	Beryllium	0.17	B		P
7440-43-9	Cadmium	0.50	U		P
7440-70-2	Calcium	82100			P
7440-47-3	Chromium	1.1	U		P
7440-48-4	Cobalt	1.1	U		P
7440-50-8	Copper	3.9	B		P
7439-89-6	Iron	3600			P
7439-92-1	Lead	3.2			P
7439-95-4	Magnesium	38600			P
7439-97-6	Mercury	0.10	U		CV
7439-96-5	Manganese	60.6			P
7440-02-0	Nickel	1.3	U		P
7440-09-7	Potassium	1280	B		P
7782-49-2	Selenium	4.5	U	N	P
7440-22-4	Silver	1.3	U		P
7440-23-5	Sodium	21300			P
7440-28-0	Thallium	4.0	U		P
7440-62-2	Vanadium	0.80	U		P
~~7440-66-6~~	~~Zinc~~	~~8.9~~	~~B~~		~~P~~
57-12-5	Cyanide	2.8	U		AS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments: 10/03/05

SW846-METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
ACSGWPWD26

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix (soil/water): WATER Lab Sample ID: 782907

Level (low/med): LOW Date Received: 09/27/05

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	13.0	U		P
7440-36-0	Antimony	3.7	U		P
7440-38-2	Arsenic	3.7	U		P
7440-39-3	Barium	125	B		P
7440-41-7	Beryllium	0.20	B		P
7440-43-9	Cadmium	0.50	U		P
7440-70-2	Calcium	84900			P
7440-47-3	Chromium	1.1	U		P
7440-48-4	Cobalt	1.1	U		P
7440-50-8	Copper	2.2	B		P
7439-89-6	Iron	1700			P
7439-92-1	Lead	1.8	B		P
7439-95-4	Magnesium	44000			P
7439-97-6	Mercury	0.10	U		CV
7439-96-5	Manganese	28.7			P
7440-02-0	Nickel	1.3	U		P
7440-09-7	Potassium	1670	B		P
7782-49-2	Selenium	4.5	U	N	P
7440-22-4	Silver	1.3	U		P
7440-23-5	Sodium	18300			P
7440-28-0	Thallium	4.0	U		P
7440-62-2	Vanadium	0.80	U		P
7440-66-6	Zinc	10.0	B		P
57-12-5	Cyanide	2.8	U		AS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments: km 3/05

SW846-METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ACSGWPWT26

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7829

Matrix (soil/water): WATER Lab Sample ID: 782904

Level (low/med): LOW Date Received: 09/27/05

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
~~7429-90-5~~	~~Aluminum~~	~~13.0~~	~~U~~		~~P~~
7440-36-0	Antimony	3.7	B		P
7440-38-2	Arsenic	3.7	U		P
7440-39-3	Barium	127	B		P
7440-41-7	Beryllium	0.22	B		P
7440-43-9	Cadmium	0.50	U		P
7440-70-2	Calcium	85800			P
7440-47-3	Chromium	1.1	U		P
7440-48-4	Cobalt	1.1	U		P
7440-50-8	Copper	0.80	U		P
7439-89-6	Iron	2180			P
7439-92-1	Lead	1.6	U		P
7439-95-4	Magnesium	45500			P
7439-97-6	Mercury	0.10	U		CV
7439-96-5	Manganese	32.2			P
7440-02-0	Nickel	1.3	U		P
7440-09-7	Potassium	1770	B		P
7782-49-2	Selenium	4.5	U	N	P
7440-22-4	Silver	1.3	U		P
7440-23-5	Sodium	19000			P
7440-28-0	Thallium	4.0	U		P
7440-62-2	Vanadium	0.80	U		P
~~7440-66-6~~	~~Zinc~~	~~21.8~~			~~P~~
57-12-5	Cyanide	2.8	U		AS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments: MH103105

DC #: 14146A6
SDG #: 7829

VALIDATION FINDINGS CHECKLIST

Reviewer: MG
2nd Reviewer: MM

Method: Inorganics (EPA Method 9012A)

Validation Area	Yes	No	NA	Findings/Comments
I. Sample holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. Calibration				
Were all instruments calibrated daily, each set-up time?	✓			
Were the proper number of standards used?	✓			
Were all initial calibration correlation coefficients > 0.995?	✓			
Were all initial and continuing calibration verification %Rs within the 90-110% QC limits?	✓			
Were titrant checks performed as required? (Level IV only)			✓	
Were balance checks performed as required? (Level IV only)			✓	
III. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
IV. Matrix Spike/Matrix Spike Duplicates and Duplicates				
Were a matrix spike (MS) and duplicate (DUP) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD or MS/DUP. Soil / Water.	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the 75-125 QC limits? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.	✓			
Were the MS/MSD or duplicate relative percent differences (RPD) ≤ 20% for waters and ≤ 35% for soil samples? A control limit of ≤ CRDL(≤ 2X CRDL for soil) was used for samples that were ≤ 5X the CRDL, including when only one of the duplicate sample values were < 5X the CRDL.	✓			
V. Laboratory Control Samples				
Was an LCS anaylzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the 80-120% (85-115% for Method 300.0) QC limits?	✓			
VI. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?		✓		
Were the performance evaluation (PE) samples within the acceptance limits?			✓	

LDC #: 14146A6
SDG #: 7829

VALIDATION FINDINGS WORKSHEET
Initial and Continuing Calibration Calculation Verification

Reviewer: MG
2nd Reviewer: MG

METHOD: Inorganics, Method 9012A

The correlation coefficient (r) for the calibration of CN was recalculated. Calibration date: 10-5-05

An initial or continuing calibration verification percent recovery (%R) was recalculated for each type of analysis using the following formula:

%R = Found x 100 / True

Where, Found = concentration of each analyte measured in the analysis of the ICV or CCV solution
True = concentration of each analyte in the ICV or CCV source

Type of Analysis	Analyte		Conc (units)	Area (units)	Recalculated r or %R	Reported r or %R	Acceptable (Y/N)
Initial calibration	CN	Blank	0 (µg/L)	90894	r = 1.0000	r = 1.0000	Y
Calibration verification		Standard 1	10 (|)	480742			
		Standard 2	20 (|)	895896			
		Standard 3	40 (|)	1695797			
		Standard 4	100 (|)	4075666			
		Standard 5	200 (|)	8018223			
		Standard 6	300 (|)	11905904			
		Standard 7	400 (|)	15743018			
Calibration verification	CN	1647 CCV2	205.65 (µg/L)	200.0 (µg/L)	102.8	102.8	
Calibration verification	CN	1657 CCV3	215.67 (µg/L)	200.0 (µg/L)	107.8	107.8	
Calibration verification	CN	1701 CCV4	214.73 (µg/L)	200.0 (µg/L)	107.4	107.4	

Comments: Refer to Calibration Verification findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 14146A6
SDG #: 7829

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: MG
2nd reviewer: MG

METHOD: Inorganics, Method 9012A

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Have results been reported and calculated correctly?
(Y) N N/A Are results within the calibrated range of the instruments?
(Y) N N/A Are all detection limits below the CRQL?

Compound (analyte) results for all samples = N.D. reported with a positive detect were recalculated and verified using the following equation:

Concentration = Recalculation:

#	Sample ID	Analyte	Reported Concentration ( )	Calculated Concentration ( )	Acceptable (Y/N)

Note:

LABORATORY DATA CONSULTANTS, INC.
7750 El Camino Real, Suite 2L Carlsbad, CA 92009 Phone: 760/634-0437 Fax: 760/634-0439

MWH Americas, Inc.
175 West Jackson Blvd, Suite 1900
Chicago, IL 60604-2814
ATTN: Ms. Amy Clore

November 1, 2005

SUBJECT: Precision, Accuracy, Representativeness, Comparability, Completeness (PARCC) Summary Report for the ACS-89 Project

Dear Ms. Clore,

Enclosed is the Precision, Accuracy, Representativeness, Comparability, Completeness (PARCC) Summary Report for the ACS-89 project.

We appreciate this opportunity to support MWH Americas, Ic. in the performance of this project. Please feel free to call me at (760) 634-0437 if you have any questions.

Sincerely,

Erlinda T. Rauto
Operations Manager/Senior Chemist

Table of Contents

Section	Title	Page No.
1.0	Introduction	1
2.0	Volatile Organic Compounds	5
2.1	Precision and Accuracy	5
2.2	Representativeness	7
2.3	Comparability	7
2.4	Completeness	8
3.0	Semivolatile Organic Compounds	8
3.1	Precision and Accuracy	8
3.2	Representativeness	9
3.3	Comparability	9
3.4	Completeness	9
4.0	Chlorinated Pesticides and PCBs	10
4.1	Precision and Accuracy	10
4.2	Representativeness	10
4.3	Comparability	11
4.4	Completeness	11
5.0	Metals	11
5.1	Precision and Accuracy	11
5.2	Representativeness	12
5.3	Comparability	13
5.4	Completeness	13
6.0	Cyanide	13
6.1	Precision and Accuracy	13
6.2	Representativeness	14
6.3	Comparability	14
6.4	Completeness	14
7.0	Variances	15
8.0	Summary of PARCC Criteria	15
8.1	Precision and Accuracy	15
8.2	Representativeness	15

Glossary

CRDL	Contract Required Detection Limit
CRQL	Contract Required Quantitation Limit
CLP	Contract Laboratory Program
DQO	Data Quality Objectives
IDL	Instrument Detection Limit
LCS/LCSD	Laboratory Control Sample / Laboratory Control Sample Duplicate
mg/Kg	Milligrams per Kilogram
MS/MSD	Matrix Spike / Matrix Spike Duplicate
PARCC	Precision,Accuracy,Representativeness,Comparability, Completeness
PCBs	Polychlorinated Biphenyls
QAPP	Quality Assurance Project Plan
QA/QC	Quality Assurance / Quality Control
RPD	Relative Percent Difference
RRF	Relative Response Factor
RL	Reporting Limit
SDG	Sample Delivery Group
SOW	Statement of Work
SVOC	Semivolatile Organic Compound
ug/Kg	Micrograms per Kilogram
ug/L	Micrograms per Liter
USEPA	United States Environmental Protection Agency
VOC	Volatile Organic Compound
%D	Percent Difference
%R	Percent Recovery
%RSD	Percent Relative Standard Deviation

overall quality of a measurement. Errors in sample data may result from incomplete equipment decontamination, inappropriate sampling techniques, sample heterogeneity, improper filtering, and improper preservation. The accuracy of analytical results is dependent on selecting appropriate analytical methods, maintaining equipment properly, and complying with QC requirements. The sample matrix also is an important factor in the ability to obtain precise and accurate results within a given media.

Environmental and laboratory QA/QC samples assess the effects of sampling procedures and evaluate laboratory contamination, laboratory performance, and matrix effects. QA/QC samples include: trip blanks, equipment rinsate blanks, field duplicates, method blanks, laboratory control samples (LCSs), surrogate spikes, matrix spike/matrix spike duplicates (MS/MSDs), and laboratory duplicates.

Before conducting the PARCC evaluation, the analytical data were validated according to the *Remedial Design/ Remedial Action PRP-Lead Project at the American Chemical Service, Inc. NPL Site, Griffith, Indiana Quality Assurance Project Plan,* November 2001, and the Functional Guidelines for Organic Data Review (USEPA 1999) and Inorganic Data Review (USEPA, 1994) and EPA SW 846 Third Edition, Test Methods for Evaluating Solid Waste. Samples not meeting the project procedures manual and the Functional Guideline acceptance criteria were qualified with a flag, an abbreviation indicating a deficiency with the data. The following are flags used in data validation.

J Estimated The associated numerical value is an estimated quantity. The analyte was detected but the reported value may not be accurate or precise. The "J" qualification indicates the data fell outside the QC limits, but the exceedance was not sufficient to cause rejection of the data.

R Rejected The data is unusable (the compound or analyte may or may not be present). Use of the "R" qualifier indicates a significant variance from functional guideline acceptance criteria. Either resampling or reanalysis is necessary to determine the presence or absence of the rejected analyte.

UB Analyte was not detected at or above the indicated concentration due to blank contamination. The "UB" flag is used to qualify any result detected in an environmental sample at a concentration less than 10 times the value of the concentration in any associated blank for common laboratory contaminants and less than 5 times the concentration in any associated blank for all other contaminants

B Analyte was positively detected in a sample and in an associated blank. The "B" flag is used to to qualify any result detected in an environmental sample at a concentration greater than 10 times the value of the concentration in any associated blank for common laboratory contaminants and greater than 5 times the concentration in any associated blank for all other contaminants

UJ Estimated/Nondetected Analyses were performed for the compound or analyte, but it was not detected and the sample quantitation or detection limit is an estimated quantity due to poor accuracy or precision. This qualification is also used to flag possible false negative results in the case where low bias in the analytical system is indicated by low calibration response, surrogate, internal standard, or other spike recovery.

Once the data are reviewed and qualified according to the *Remedial Design/ Remedial Action PRP-Lead Project at the American Chemical Service, Inc. NPL Site, Griffith, Indiana Quality Assurance Project Plan,* November 2001 and the functional guidelines, the data set is then evaluated using PARCC

analyst error, or matrix interference. Accuracy is assessed through the analysis of MS, MSD, LCS, and samples containing surrogate spikes. In some cases, samples from multiple SDGs were within one QC batch and therefore are associated with the same laboratory QC samples. Surrogate spikes are either isotopically labeled compounds or compounds that are not typically detected in the samples. Surrogate spikes are added to every blank, environmental sample, MS/MSD, and standard, for volatile organic (VOC), semivolatile (SVOC), chlorinated pesticides and polychlorinated biphenyl (PCBs) analyses. Accuracy of inorganic analyses is determined using the percent recoveries of MS and LCS analyses.

Percent recovery (%R) is calculated using the following equation:

$$\%R = (A-B)/C \times 100$$

where:
A = measured concentration in the spiked sample
B = measured concentration of the spike compound in the unspiked sample
C = concentration of the spike

The percent recovery of each analyte spiked in MS/MSD samples, LCS, and surrogate compounds added to environmental samples is evaluated with the acceptance criteria specified by the previously noted documents. Spike recoveries outside the acceptable QC accuracy limits provide an indication of bias, where the reported data may overestimate or underestimate the actual concentration of compounds detected or quantitation limits reported for environmental samples.

Representativeness is a qualitative parameter that expresses the degree to which the sample data are characteristic of a population. It is evaluated by reviewing the QC results of blank samples and holding times. Positive detects of compounds in the blank samples identify compounds that may have been introduced into the samples during sample collection, transport, preparation, or analysis. The QA/QC blanks collected and analyzed are method blanks, equipment rinsate blanks, and trip blanks.

A method blank is a laboratory grade water or solid matrix that contains the method reagents and has undergone the same preparation and analysis as the environmental samples. The method blank provides a measure of the combined contamination derived from the laboratory source water, glassware, instruments, reagents, and sample preparation steps. Method blanks are prepared for each sample of a similar matrix extracted by the same method at a similar concentration level.

Trip blanks are used to identify possible volatile organic contamination introduced into the sample during transport. A trip blank is a sample bottle filled in the laboratory with reagent-grade water and preserved to a pH less than 2 with hydrochloric acid. It is transported to the site, stored with the sample containers, and returned unopened to the laboratory for analysis. Additionally, for inorganic analyses, initial and continuing calibration blanks consist of acidified laboratory grade water, which are injected at the beginning and at a regular frequency during each 12 - hour sample analysis run. These blanks estimate residual contaminants from the previous sample or standards analysis and measure baseline shifts that commonly occur in emission and absorption spectroscopy.

Contaminants found in both the environmental sample and a blank sample are assumed to be laboratory artifacts if the concentration in the environmental sample is less than 10 times the blank value for common laboratory contaminants; methylene chloride, acetone, 2-butanone, and phthalate esters or 5 times the blank value for other laboratory contaminants.

compared to its internal standard. %RSD is an expression of the linearity of instrument response. %D is a comparison of a continuing calibration instrumental response with its initial response. %RSD and %D exceedances suggest routine instrumental anomalies, which typically impact all sample results for the affected compounds.

Nineteen VOC results were qualified detected estimated (J) and non-detected estimated (UJ). The relative response factors for acetone, 2-butanone and methyl acetate were above the criteria for acceptance of 0.05 in the initial calibration and/or the continuing calibration standards

Seventeen VOC results were qualified detected estimated (J) and non-detected estimated (UJ). The relative standard deviation in the initial calibrations and/or percent difference between the initial calibration mean relative response factors and the continuing calibration relative response factors for methyl acetate, methyl-tert-butyl ether and 1,2,4-trichlorobenzene were outside the acceptance criteria of 30 and 25 percent, respectively. The affected samples were identified in the data validation reports.

2.1.2 Surrogates

No data were qualified based on surrogate recovery nonconformances. The recoveries were evaluated against the acceptance criteria.

2.1.3 MS/MSD Samples

Four VOC results were qualified detected estimated (J) and non-detected estimated (UJ). The relative percent differences (RPD) for 1,1-dichloroethene, benzene, toluene and chlorobenzene were outside the acceptance criteria. The affected samples were identified in the data validation reports.

2.1.4 LCS Samples

No data were qualified based on LCS nonconformances. The recoveries were evaluated against the acceptance criteria.

2.1.5 Internal Standards

No data were qualified based on internal standard nonconformances. The recoveries and retention times were evaluated against the acceptance criteria.

2.1.6 Field Duplicate Samples

The field duplicate samples were evaluated for acceptable precision with RPDs for the compounds. The associated data validation narratives provided details regarding criteria exceeded. Sample data were not qualified on the basis of field duplicate precision.

2.1.7 Compound Quantitation and Target Identification

All compound quantitation and target identification was found to be acceptable.

2.4 Completeness

The completeness level attained for volatile organic field samples was 100 percent. This percentage was calculated as the total number of accepted sample results divided by the total number of sample results multiplied by 100.

3.0 SEMIVOLATILE ORGANIC COMPOUNDS

A total of six water samples were analyzed for semivolatile organic compounds (SVOC) by EPA CLP SOW OLC03.2. All semivolatile data were assessed to be valid since none of the 390 total results were rejected based on QC exceedances. This section discusses the QA/QC supporting documentation as defined by the PARCC criteria and evaluated based on the DQOs.

3.1 Precision and Accuracy

3.1.1 Instrument Calibration

As previously discussed in Section 2.1.1, initial and continuing calibration results provide a means of evaluating accuracy.

The relative response factors met the acceptance criteria of 0.05 in the initial and continuing calibration standards.

Forty two semivolatile results were qualified as detected estimated (J) and non-detected estimated (UJ). The relative standard deviation in the initial calibrations and/or percent difference between the initial calibration mean relative response factors and the continuing calibration relative response factors for several compounds were outside the acceptance criteria of 30 and 25 percent, respectively. The affected samples are identified in the data validation reports.

3.1.2 Surrogates

No data were qualified based on surrogate recovery nonconformances. In cases where individual recoveries exceeded criteria, the QC exceedance was judged to have no impact on the data quality and no qualifications were made.

3.1.3 MS/MSD Samples

No data were qualified based on the MS/MSD nonconformances. For those SDGs with MS/MSD results, the recoveries were evaluated against the acceptance criteria.

3.1.4 LCS Samples

No data were qualified based on LCS nonconformances. For those SDGs with LCS results, the recoveries were evaluated against the acceptance criteria.

1.0 Chlorinated Pesticides / PCBs

A total of twelve water samples were analyzed for chlorinated pesticides / PCBs by EPA CLP SOW OLC03.2. All chlorinated pesticides / PCB data were assessed to be valid since none of the 336 total results were rejected based on QC exceedances. This section discusses the QA/QC supporting documentation as defined by the PARCC criteria and evaluated based on the DQOs.

4.1 Precision and Accuracy

4.1.1 Instrument Calibration

Initial and continuing calibration results provide a means of evaluating accuracy within a particular SDG. Percent relative standard deviation (%RSD) and percent difference (%D) are the two major parameters used to measure the effectiveness of instrument calibration. %RSD is an expression of the linearity of instrument response. %D is a comparison of a continuing calibration instrumental response with its initial response. %RSD and %D exceedances suggest more routine instrumental anomalies, which typically impact all sample results for the affected compounds.

The relative standard deviations in the initial calibrations and/or percent differences between the initial calibration and the continuing calibration concentrations were within the acceptance criteria of 20 and 15 percent respectively.

4.1.2 Surrogates

No data were qualified based on surrogate recovery nonconformances. In cases where individual recoveries exceeded criteria, the QC exceedance was judged to have no impact on the data quality and no qualifications were made.

4.1.3 MS/MSD Samples

No data were qualified based on MS/MSD nonconformances. For those SDGs with MS/MSD results, the recoveries were evaluated against the acceptance criteria.

4.1.4 LCS Samples

No data were qualified based on LCS nonconformances. For those SDGs with LCS results, the recoveries were evaluated against the acceptance criteria.

4.1.6 Field Duplicate Samples

The field duplicate samples were evaluated for acceptable precision with RPDs for the compounds. The associated data validation narratives provided details regarding criteria exceeded. Sample data were not qualified on the basis of field duplicate precision.

4.1.8 Compound Quantitation and Target Identification

All compound quantitation and target compound identifications were found to be acceptable.

4.2 Representativeness

5.1.2 MS Samples

As a result of non-compliant MS recoveries, six results for selenium were qualified as detected estimated (J) and non-detected estimated (UJ). The details regarding the qualification of results are provided in the data validation reports.

5.1.3 Duplicate (DUP) Samples

No data were qualified based on duplicate nonconformances. For those SDGs with DUP results, the relative percent differences/differences were evaluated against the acceptance criteria. In cases where RPDs or differences exceeded criteria, the QC exceedance was judged to have no impact on the data quality and no qualifications were made.

5.1.4 LCS Samples

No data were qualified based on LCS nonconformances. For those SDGs with LCS results, the recoveries were evaluated against the acceptance criteria.

5.1.5 ICP Serial Dilution

No data were qualified based on ICP serial dilution nonconformances. All recoveries were evaluated against the acceptance criteria.

5.1.6 ICP Interference Check Sample

No data were qualified based on interference check sample nonconformances. All recoveries were evaluated against the acceptance criteria.

5.1.7 Field Duplicate Samples

The field duplicate samples were evaluated for acceptable precision with RPDs for the analytes. The associated data validation narratives provided details regarding criteria exceeded. Sample data were not qualified on the basis of field duplicate precision.

5.1.9 Sample Result Verification

Laboratory reporting limit for silver was higher than the QAPP required reporting limit.

All sample results were found to be acceptable.

5.2 Representativeness

5.2.1 Holding Times

The evaluation of holding times to verify compliance with the method was conducted. All holding times were met.

5.2.2 Blanks

Method blanks and field blanks were collected and analyzed to evaluate representativeness. The concentration for an individual target compounds in any of the three types of QA/QC blanks were used for data qualification.

6.1.2 MS Samples

No data were qualified based on MS nonconformances. For those SDGs with MS results, the recoveries were evaluated against the acceptance criteria.

6.1.3 Duplicate (DUP) Samples

No data were qualified based on duplicate nonconformances. For those SDGs with duplicate results, the recoveries were evaluated against the acceptance criteria.

6.1.4 LCS Samples

No data were qualified based on LCS nonconformances. For those SDGs with LCS results, the recoveries were evaluated against the acceptance criteria.

6.1.7 Field Duplicate Samples

The field duplicate samples were evaluated for acceptable precision with RPDs for the analytes. The associated data validation narratives provided details regarding criteria exceeded. Sample data were not qualified on the basis of field duplicate precision.

6.1.9 Sample Result Verification

All sample results were found to be acceptable.

6.2 Representativeness

6.2.1 Holding Times

The evaluation of holding times to verify compliance with the method was conducted. All holding times were met.

6.2.2 Blanks

As previously discussed in Section 5.2.2, method blanks were analyzed to evaluate representativeness.

6.2.2.1 Method Blanks

No QC issues were associated with the method blanks for this analysis.

6.3 Comparability

The laboratory used standard analytical methods for all of the analyses. In all cases, the method detection limits attained were at or below the reporting limit. Target analytes detected below the reporting limits flagged (J) by the laboratory should be considered estimated. The comparability of the data is regarded as acceptable.

6.4 Completeness

The completeness level attained for cyanide field samples was 100 percent. This percentage was calculated as the total number of accepted sample results divided by the total number of sample results multiplied by 100.

Appendix D
Pumping Data from Monitoring Wells MW10C and MW56

Pumping Data for Lower Aquifer Monitoring Well MW56
Through September 2005

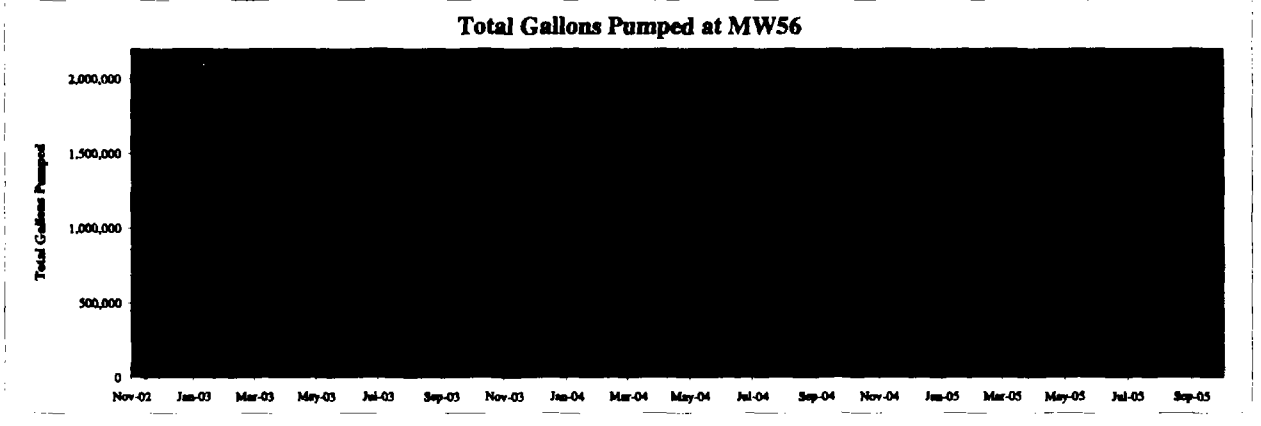
MW56				
Measurement Date	Flow Rate (GPM)	Total Gallons Pumped	Days Between Measurements	Gallons per Day
11/15/02	1	10,620	—	—
12/03/02	1	31,620	18	1,167
12/21/02	1.5	50,130	18	1,028
12/27/02	1.5	54,870	6	790
01/03/03	1.5	63,460	7	1,227
01/10/03	1.5	70,130	7	953
01/16/03	1.5	77,380	6	1,208
01/24/03	1.5	84,840	8	933
01/31/03	2	105,400	7	2,937
02/14/03	2	147,310	14	2,994
02/20/03	2	166,550	6	3,207
02/27/03	2	190,130	7	3,369
03/07/03	2	215,980	8	3,231
03/13/03	2	236,440	6	3,410
03/21/03	2	261,380	8	3,118
03/28/03	2	279,930	7	2,650
04/04/03	2	299,360	7	2,776
04/11/03	2	327,490	7	4,019
04/17/03	2	348,540	6	3,508
04/25/03	2	373,590	8	3,131
05/02/03	2	395,770	7	3,169
05/29/03	2	486,640	27	3,366
06/13/03	2	514,120	15	1,832
06/20/03	2	526,930	7	1,830
07/03/03	2	565,650	13	2,978
07/11/03	2	589,150	8	2,938
07/25/03	2	598,780	14	688

MW56				
Measurement Date	Flow Rate (GPM)	Total Gallons Pumped	Days Between Measurements	Gallons per Day
08/01/03	2	620,210	7	3,061
08/08/03	2	636,400	7	2,313
08/15/03	2	657,820	7	3,060
10/03/03	2	657,850	49	1
10/31/03	2	690,420	28	1,163
11/07/03	2	709,130	7	2,673
11/21/03	2	738,920	14	2,128
12/05/03	2	770,530	14	2,258
12/12/03	2	787,800	7	2,467
12/26/03	2	827,060	14	2,804
01/02/04	2	846,960	7	2,843
01/09/04	2	866,310	7	2,764
01/16/04	2	886,330	7	2,860
01/22/04	2	903,320	6	2,832
02/12/04	2	921,350	21	859
02/20/04	2	943,660	8	2,789
02/27/04	2	962,930	7	2,753
03/19/04	2	1,024,620	21	2,938
04/02/04	2	1,049,020	14	1,743
04/16/04	2	1,090,960	14	2,996
04/23/04	2	1,113,640	7	3,240
04/30/04	2	1,135,930	7	3,184
05/14/04	2	1,175,970	14	2,860
06/04/04	2	1,247,530	21	3,408
06/18/04	2	1,291,550	14	3,144
07/02/04	2	1,335,500	14	3,139
07/09/04	2	1,358,500	7	3,286

MW56				
Measurement Date	Flow Rate (GPM)	Total Gallons Pumped	Days Between Measurements	Gallons per Day
07/16/04	2	1,376,990	7	2,641
07/30/04	2	1,419,610	14	3,044
09/17/04	0	1,519,670	49	2,042
10/01/04	0	1,519,670	14	0
10/15/04	2	1,527,850	14	584
11/05/04	2	1,566,020	21	1,818
11/18/04	2	1,596,200	13	2,322
12/03/04	2	1,631,330	15	2,342
12/10/04	2	1,639,050	7	1,103
12/31/04	2	1,646,830	21	370
01/21/05	2	1,646,880	21	2
02/25/05	2	1,663,450	35	473
03/04/05	2	1,680,530	7	2,440
03/11/05	2	1,697,570	7	2,434
03/18/05	2	1,714,240	7	2,381
03/25/05	2	1,731,870	7	2,519
04/01/05	2	1,739,870	7	1,143
04/08/05	2	1,751,960	7	1,727
04/15/05	2	1,769,170	7	2,459
04/22/05	2	1,784,480	7	2,187
04/29/05	2	1,799,460	7	2,140
05/13/05	2	1,826,680	14	1,944
05/20/05	2	1,841,400	7	2,103
05/27/05	2	1,857,330	7	2,276
06/03/05	2	1,871,780	7	2,064
06/17/05	2	1,900,740	14	2,069
06/24/05	2	1,916,160	7	2,203

MW56				
Measurement Date	Flow Rate (GPM)	Total Gallons Pumped	Days Between Measurements	Gallons per Day
07/01/05	2	1,931,420	7	2,180
07/15/05	2	1,960,260	14	2,060
07/29/05	2	1,987,950	14	1,978
08/05/05	2	2,001,660	7	1,959
08/19/05	2	2,028,380	14	1,909
08/26/05	2	2,042,200	7	1,974
09/09/05	2	2,069,090	14	1,921
09/15/05	2	2,081,920	6	2,138

GPM - Gallons per minute

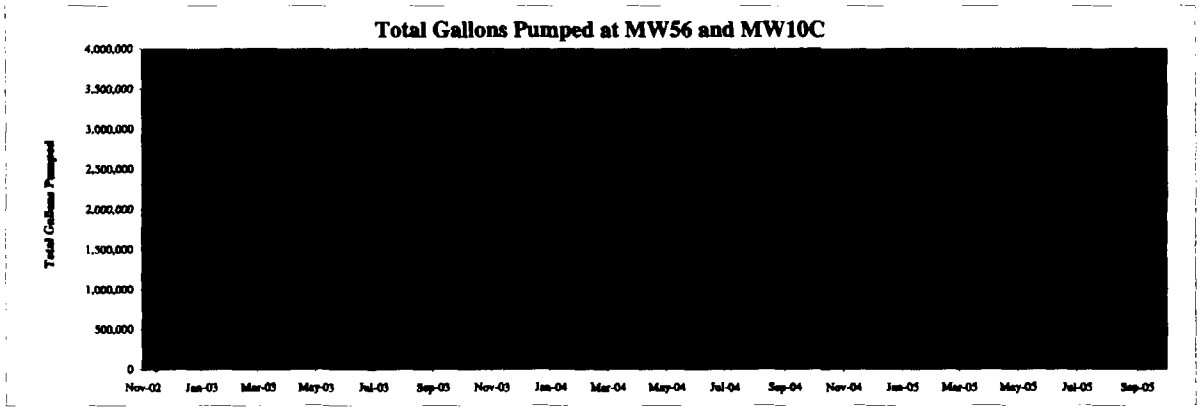


Combined Pumping Data for Lower Aquifer Monitoring Wells MW10C and MW56
Through September 2005

MW56 and MW10C				
Measurement Date	Flow Rate (GPM)	Total Gallons Pumped	Days Between Measurements	Gallons per Day
11/15/02	1.5	12,200	—	—
12/03/02	1.5	33,200	18	1,167
12/21/02	2	51,710	18	1,028
12/27/02	2	56,450	6	790
01/03/03	2	65,040	7	1,227
01/10/03	2	71,710	7	953
01/16/03	2	78,960	6	1,208
01/24/03	2	86,420	8	933
01/31/03	2.5	106,980	7	2,937
02/14/03	2.5	149,520	14	3,039
02/20/03	2.5	168,760	6	3,307
02/27/03	2.5	192,340	7	3,369
03/07/03	3	221,820	8	3,685
03/13/03	3	245,790	6	3,995
03/21/03	3	283,850	8	4,758
03/28/03	3	312,860	7	4,144
04/04/03	3	340,160	7	3,900
04/11/03	3	368,300	7	4,020
04/17/03	3	391,280	6	3,832
04/25/03	3	436,960	8	5,709
05/02/03	3	477,520	7	5,794
05/29/03	3	643,430	27	6,145
06/13/03	3	695,070	15	3,443
06/20/03	3	719,810	7	3,534
07/03/03	3	807,950	13	6,780
07/11/03	3	862,080	8	6,766
07/25/03	4	884,190	14	1,579

MW56 and MW10C				
Measurement Date	Flow Rate (GPM)	Total Gallons Pumped	Days Between Measurements	Gallons per Day
08/01/03	4	934,060	7	4,607
08/08/03	4	971,910	7	5,407
08/15/03	4	1,022,370	7	7,209
10/03/03	4	1,045,300	49	468
10/31/03	4	1,078,690	28	1,193
11/07/03	4	1,123,180	7	6,356
11/21/03	4	1,193,840	14	5,047
12/05/03	4	1,267,440	14	5,257
12/12/03	4	1,307,410	7	5,710
12/26/03	4	1,398,390	14	6,499
01/02/04	4	1,444,530	7	6,591
01/09/04	4	1,489,220	7	6,384
01/16/04	4	1,535,480	7	6,609
01/22/04	4	1,574,780	6	6,550
02/12/04	4	1,616,680	21	1,995
02/20/04	4	1,668,820	8	6,518
02/27/04	4	1,713,950	7	6,447
03/19/04	4	1,857,440	21	6,833
04/02/04	4	1,913,180	14	3,981
04/16/04	4	2,007,400	14	6,730
04/23/04	4	2,056,520	7	7,017
04/30/04	4	2,105,780	7	7,037
05/14/04	4	2,194,180	14	6,314
06/04/04	4	2,280,390	21	4,105
06/18/04	4	2,378,290	14	6,993
07/02/04	4	2,476,180	14	6,992
07/09/04	4	2,514,210	7	5,433

MW56 and MW10C				
Measurement Date	Flow Rate (GPM)	Total Gallons Pumped	Days Between Measurements	Gallons per Day
07/16/04	4	2,553,780	7	5,653
07/30/04	4	2,597,030	14	3,089
09/17/04	0	2,863,480	49	5,438
10/01/04	0	2,863,480	14	0
10/15/04	0	2,871,660	14	584
11/05/04	2	2,923,790	21	2,482
11/18/04	2	2,971,110	13	3,640
12/03/04	0	3,014,400	15	2,886
12/10/04	2	3,021,400	7	1,000
12/31/04	4	3,054,500	21	824
01/21/05	2	3,057,830	21	159
02/25/05	4	3,069,870	35	915
03/04/05	4	3,102,750	7	4,697
03/11/05	4	3,135,690	7	4,706
03/18/05	4	3,168,010	7	4,617
03/25/05	4	3,195,480	7	3,924
04/01/05	4	3,203,490	7	1,144
04/08/05	4	3,223,370	7	2,840
04/15/05	4	3,251,170	7	3,971
04/22/05	4	3,280,430	7	4,180
04/29/05	4	3,308,060	7	3,947
05/13/05	4	3,355,150	14	3,364
05/20/05	4	3,381,890	7	3,820
05/27/05	4	3,410,790	7	4,129
06/03/05	4	3,439,060	7	4,039
06/17/05	4	3,475,810	14	2,625
06/24/05	4	3,496,020	7	2,887

MW56 and MW10C				
Measurement Date	Flow Rate (GPM)	Total Gallons Pumped	Days Between Measurements	Gallons per Day
07/01/05	2	3,511,280	7	2,180
07/15/05	2	3,541,700	14	2,173
07/29/05	2	3,569,390	14	1,978
08/05/05	2	3,583,100	7	1,959
08/19/05	2	3,609,830	14	1,909
08/26/05	2	3,623,640	7	1,974
09/09/05	2	3,650,530	14	1,921
09/15/05	2	3,663,360	6	2,138

GPM - Gallons per minute