Data Review
Site Name: Allied Paper (MI)
Case Number: 29294 Laboratory: Southwest Laboratory
SDG: E30W6

Tuesday, July 10, 2001

US EPA RECORDS CENTER REGION 5
560085

PCBs

Samples:

Sample No	Station Location	Matrix	Date Collected	Date Extracted	Date Analyzed
E30W6	AP-SD043-02	Soil	06/07/01	06//09/01	06/21/01
E30Y6	AP-SD055-01	Soil	06/07/01	06//09/01	06/21/01
E30Y7	AP-SD055-02	Soil	06/07/01	06//09/01	06/21/01
E30Y8	AP-SD055-03	Soil	06/07/01	06//09/01	06/21/01
E30Y9	AP-SD055-04	Soil	06/07/01	06//09/01	06/21/01
E30Z0	AP-SD055-03DP	Soil	06/07/01	06//09/01	06/21/01
E30Z1	AP-SD034-01	Soil	06/07/01	06//09/01	06/21/01
E30Z2	AP-SD034-02	Soil	06/07/01	06//09/01	06/21/01
E30Z3	AP-SD034-03	Soil	06/07/01	06//09/01	06/21/01
E30Z4	AP-SD034-04	Soil	06/07/01	06//09/01	06/21/01
E30Z5	AP-SD034-05	Soil	06/07/01	06//09/01	06/21/01
E30Z6	AP-SD032-01	Soil	06/07/01	06//09/01	06/21/01
E30Z7	AP-SD032-02	Soil	06/07/01	06//09/01	06/21/01
E30Z8	AP-SD032-03	Soil	06/07/01	06//09/01	06/21/01
E30Z9	AP-SD032-04	Soil	06/07/01	06//09/01	06/21/01
E3100	AP-SD031-01	Soil	06/07/01	06//09/01	06/21/01
E3101	AP-SD031-02	Soil	06/07/01	06//09/01	06/21/01
E3102	AP-SD031-03	Soil	06/07/01	06//09/01	06/21/01
E3103	AP-SD031-04	Soil	06/07/01	06//09/01	06/21/01
E3104	AP-SD047-01	Soil	06/07/01	06//09/01	06/21/01

Holding Time:

All samples were extracted and analyzed within the required holding time.

Method Blank:

The method blank was associated with SDG. PBLKSC was analyzed on 06/21/01 with all the samples (E30W6, E30Y6 thru E30Y9, E30Z0 thru E30Z9, E3100 thru E3104 and MS/MSD). The PBLKSC results were free of contamination. All samples underwent OLMO4.2 cleanup, Silica Gel Cleanup, and sulfuric acid cleanup prior analysis. All instrument blanks associated with this sample set were free of contamination.

Surrogate Recovery:

All method blanks and investigated samples had surrogate recoveries within the acceptance quality control limits (30 to 170%), except for samples: E30Y8 (*DCB1 182%, DCB2 173%), E30Z0 (*DCB1 187%, DCB2 192%). Therefore, qualify the results as estimated (J) in the detected compounds for E30Y8, and E30Z0. The laboratory is re-extracting, and re-analyzing samples E30Y8, and E30Z0.
(*DCB= Decachlorobiphenyl)

Data Review Tuesday, July 10, 2001
Site Name: Allied Paper (MI)
Case Number: 29294 Laboratory: Southwest Laboratory
SDG: E30W6

Matrix Spike/ Matrix Spike Duplicate Recovery:
The matrix spike/ matrix spike duplicate audit was performed on sample E30W6. The matrix spike/matrix spike duplicate, and the relative percent difference (RPD %) recoveries were within the quality control limits (29 to 135%).

Laboratory Control Sample Recovery:
The laboratory control sample/laboratory control sample duplicates, and the (RPD%) relative percent difference recoveries were within the quality control limits (29 to 135%).

Retention Time:
The retention time's recovery was within the acceptance limits.

Initial And Continuing Verifications Calibration:
The initial calibrations were analyzed for the arochlor, and the recoveries were within the quality control limit of an average (RSD 20%).
The multi-component calibrations verification was analyzed for arochlor 1016, and 1260. The recoveries were within the quality control limit of an average (RSD 15%).

Aroclor Analytical Sequence:
The analytical sequence for the blanks, samples, and standards were within the quality control limit.

Data Reviewed By: Tania Balikji-Shammo Date: 07/10/01

67-4A-DAMCE

DATE: July 2,2001

Roy F Weston, Inc
3 Hawthorne Parkway Drive
Vernon Hills, IL 60061

Attn: Tonya Balla

SITE NAME: ALLIED PAPER

CASE NO.	LAB	NO # OF SAMPLES	SDG	MATRIX
29294	SOUTHWEST	20	E30W6	SOIL

Upon receipt of data, please check each package for completeness and note any missing deliverables below.

Send this form back to Sylvia Griffin, Data Management Coordinator after filling in the blanks below.

Data Received by:_____ Date:_____

PROBLEMS:

Please indicate if data is complete, and note if there are any deliverables missing from the cases noted above.

_____

_____

Received by Data Management Coordinator, CRL for file.

Date:_____

Signature:_____

FROM: U.S. EPA
Region V
Central Regional Laboratory
536 S. Clark, 10th Floor
CHICAGO, IL 60605

Sent By: Eva M. Dixon, Sr. Data Specialist
ESAT

Regional Transmittal Form

JUL 02 2001

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE:

SUBJECT: Review of Data
Received for Review on 6-25-01

FROM: Stephen L. Ostrodka, Chief (SMF-4J)
Superfund Field Services Section

TO: Data User: WESTON

We have reviewed the data for the following case:

SITE NAME: ALLIED PAPER (MI)

CASE NUMBER: 29294 SDG NUMBER: E30W6

Number and Type of Samples: 20 Soils

Sample Numbers: E30W6 E30Y6-9 E30Z0-9 E3100-104

Laboratory: SWOK Hrs for Review:

Following are our findings:

CC: Cecilia Moore
Region 5 TPO
Mail Code: SM-5J

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Sample Delivery Group: E30W6 CERCLIS No: MID006007306

Case No: 29294 Site Name/Location: ALLIED PAPER

Contractor or EPA Lab: SWOK Data User: WESTON

No. of Samples: 20 Date Sampled or Date Received: 6-25-01

Have Chain-of-Custody records been received? Yes ✓ No ____
Have traffic reports or packing lists been received? Yes ✓ No ____
If no, are traffic report or packing list numbers written on the Chain-of-Custody Record?
Yes ____ No ____
If no, which traffic report or packing list numbers are missing?

Are basic data forms in? Yes ✓ No ____
No of samples claimed: 20 No. of samples received: 20

Received by: A. C. Harvey / ESAT Date: 6-28-01

Received by LSSS: A. C. Harvey / ESAT Date: 6-28-01

Review started: ____ Reviewer Signature: ____

Total time spent on review: ____ Date review completed: ____

Copied by: Nicole Jackson / ESAT Date: 7/2/01

Mailed to user by: Nicole Jackson / ESAT Date: 7/2/01

DATA USER:
Please fill in the blanks below and return this form to:
Sylvia Griffin, Data Mgmt. Coordinator, Region V, ML-10C

Data received by: ____ Date: ____

Data review received by: ____ Date: ____

Inorganic Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
Organic Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
Dioxin data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
SAS Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK

PROBLEMS: Please indicate reasons why data are not suitable for your uses.

Received by Data Mgmt. Coordinator for Files. Date: ____

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

LABORATORY NAME SOUTHWEST LABORATORY OF OKLAHOMA
CITY/STATE BROKEN ARROW, OKLAHOMA
CASE NO. 29294 SDG NO. E30We SDG NOS. TO FOLLOW
SAS NO. JUN 25 2001
CONTRACT NO. 68W99079
SOW NO. OLM04.2

All documents delivered in the Complete SDG File must be original documents where possible.

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK EPA
1. Inventory Sheet (Form DC-2) (Do not Number)				
2. SDG Case Narrative	1	2		
3. SDG Cover Sheet/Traffic Report	3	7		
4. Volatiles Data				
a. QC Summary				
System Monitoring Compound Summary (Form II	NA	NA		
Matrix Spike/Matrix Spike Duplicate Summary (Form III VOA)				
Method Blank Summary (Form IV VOA)				
GC/MS Instrument Performance Check (Form V VOA)				
Internal Standard Area and RT Summary (Form VIII VOA)				
b. Sample Data				
TCL Results - (Form I VOA-1, VOA-2)				
Tentatively Identified Compounds (Form I VOA-				
Reconstructed total ion chromatograms (RIC) for each sample				
For each sample:				
Raw Spectra and background-subtracted mass spectra of target compounds identified				
Quantitation reports				
Mass Spectra of all reported TICs with three best library matches				
c. Standards Data (All Instruments)				
Initial Calibration Data (Form VI VOA-1, VOA-2)				
RICs and Quan Reports for all Standards				
Continuing Calibration Data (Form VII VOA-1, VOA-2)				
RICs and Quantitation Reports for all Standards				
d. Raw QC Data				
BFB				
Blank Data				
Martix Spike/Matrix Spike Duplicate Data				

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (cont.)

CASE NO. 29294 SDG NO. E3OW6 SDG NOS. TO FOLLOW _____

_____ _____ SAS NO. _____

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK EPA
5. **Semivolatiles Data**				
a. QC Summary				
Surrogate Percent Recovery Summary (Form II SV)	NA	NA		
MS/MSD Summary (Form III SV)				
Method Blank Summary (Form IV SV)				
GC/MS Instrument Performance Check (Form V SV)				
Internal Standard Area and RT Summary (Form VIII SV)				
b. Sample Data				
TCL Results - (Form I SV-1, SV-2)				
Tentatively Identified Compounds (Form I SV-				
Reconstructed total ion chromatograms (RIC) for each sample				
For each sample:				
Raw Spectra and background-subtracted mass spectra of target compounds				
Quantitation reports				
Mass Spectra of TICs with three best library matches				
GPC chromatograms (if GPC is required)				
c. Standards Data (All Instruments)				
Initial Calibration Data (Form VI SV-1, SV-2)				
RICs and Quan Reports for all Standards				
Continuing Calibration Data (Form VII SV-1, SV-				
RICs and Quantitation Reports for all Standards				
d. Raw QC Data				
DFTPP				
Blank Data				
Matrix Spike/Matrix Spike Duplicate Data				
e. Raw GPC Data				
6. **Pesticides Data**				
a. QC Summary				
Surrogate Percent Recovery Summary (Form II	8	8		
MS/MSD Duplicate Summary (Form III PEST)	9	10		
Method Blank Summary (Form IV PEST)	11	11		

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (cont.)

CASE NO. 29294 SDG NO. E3DW6 SDG NOS. TO FOLLOW _____

_____ _____ SAS NO. _____

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK EPA
6. **Pesticides Data** (Cont.)				
b. Sample Data	12	113		
TCL Results - Organic Analysis Data Sheet (Form I PEST)			8	
Chromatograms (Primary Column)				
Chromatograms from second GC column				
GC Integration report or data system printout				
Manual work sheets				
For pesticides/Aroclors by GC/MS, Copies of raw spectra and copies of background-subtracted mass spectra of target compounds (samples & standards)				
c. Standards Data	114	214		
Initial Calibration of Single Component (Form VI PEST-1 and PEST-2)				
Initial Calibration of Multicomponent Analytes (Form VI PEST-3)				
Analyte Resolution Summary (Form VI PEST-4)				
Performance Evaluation Mixture (Form VI PEST-5)				
Individual Standard Mixture A (FORM VI PEST-6)				
Individual Standard Mixture B (FORM VI PEST-7)				
Calibration Verification Summary (Form VII PEST-1)				
Calibration Verification Summary (Form VII PEST-2)				
Analytical Sequence (Form VIII PEST)				
Florisil Cartridge Check (Form IX PEST-1)				
Pesticide GPC Calibration (Form IX PEST-2)				
Pesticide Identification Summary for Single Component Analytes (Form X PEST-1)				
Pesticide Identification Summary for Multicomponent Analytes (Form X PEST-2)				
Chromatograms and data system printouts A printout of retention times and corresponding peak areas or peak heights				
d. Raw QC Data				
Blank Data	215	239		
Matrix Spke/Matrix Spike Duplicate Data	246	255		

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (cont.)

CASE NO. 29294 SDG NO. E30W6 SDG NOS. TO FOLLOW _____

_____ _____ SAS NO. _____

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK EPA
6. **Pesticides Data** (Cont.)				
e. Raw GPC Data	256	297	✓	
f. Raw Florisil Data	NA	NA		
7. **Miscellaneous Data**				
Original preparation and analysis forms or of preparation and analysis logbook pages	298	303		
Internal sample and sample extract transfer chain-of-custody records	304	306		
Screening records	NA	NA		
All instrument output, including strip charts from screening activities (describe or list)				
8. **EPA Shipping/Receiving Documents**				
Airbills (No. of shipments 1)	307	307		
Chain-of-Custody Records	308	311		
Sample Tags	312	331		
Sample Log-in Sheet (Lab & DC1)	322	336		
Miscellaneous Shipping/Receiving Records (describe or list)				
Memos, Instructions, Analytical Request	337	346		
	NA	NA		
9. **Internal Lab Sample Transfer Records and Tracking Sheets** (describe or list)				
10. **Other Records** (describe or list)				
Telephone Communication Log				

11. **Comments:**

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (cont.)

CASE NO. 29294 SDG NO. E30W4 SDG NOS. TO FOLLOW _____

_____ _____ SAS NO. _____

	(Signature)	(Printed Name/Title)	(Date)
Completed by: (CLP Lab)	Emma Morton	Emma Morton Data Clerk	6/22/01
Verified by: (CLP Lab)	Sandra Tackett	Sandra Tackett/Data Clerk	6/22/01
Audited by: (EPA)			

SOUTHWEST LABORATORY OF OKLAHOMA
(SWL-TULSA)
1700 West Albany, Suite A/ Broken Arrow, OK 74012
918-251-2858

SDG NARRATIVE

June 22, 2001

JUN 2 5 2001

CONTRACT: 68W99079

CASE NO: 29294

SDG NO: E30W6

SAMPLES: E30W6, E30W6MS, E30W6MSD, E30Y6, E30Y6DL, E30Y7, E30Y8, E30Y9, E30Z0, E30Z1, E30Z2, E30Z3, E30Z4, E30Z5, E30Z6, E30Z7, E30Z8, E30Z9, E3100, E3101, E3102, E3103 and E3104.

FRACTION: Pesticide/PCB

Twenty soil samples were analyzed for PCBs, by modified EPA SOW OLM04.2 using Flex Clause Modification PCB-REG5.

Columns: The soil samples were analyzed on J&W (agilent technologies) dual analytical columns, DB17MS, length 30m, id 0.32 mm, film thickness 0.25 um) and DB-XLB, length 30m, id 0.32 mm, film thickness 0.25 um. These columns were specifically designed for pesticide/PCB separation as required by the EPA's SOW. All applicable manufacturer's instructions were followed for the analysis of pesticides/PCBs. Manufacturer provided information on the performance characteristics of the columns are kept on site. HYDROGEN was used as the carrier gas for all samples analyzed on instrument signals HP_15A and HP_15B with columns DB-17MS & DB-XLB.

The following samples in this SDG labeled with a DL are considered billable since these samples had dilutions analyzed to get target compounds within instruments linear range, E30Y6DL.

The sample cooler arrived at 4.8 degrees Celsius. Note: The traffic report and cooler had different airbill numbers listed (see e-mail logs). Sample E30Y9 was listed on the traffic report to be used for MS/MSD, but this sample was not needed for this SDG (see e-mail logs).

The modification for these soils included the following cleanups: OLM04.2 GPC cleanup followed by SW846 method 3630 Silica Gel Cleanup which was then followed by SW846- method 3665 sulfuric acid cleanup prior to analyses. No florisil clean up was necessary as part of the modification.

Blanks: No target analytes were detected in the extraction blanks.

Surrogates: Samples E30Y8 and E30Z0 had high recovery for DCB on both columns. These samples are being re-extracted and will be submitted in a later SDG for re-extracts only as agreed upon by the region.

Laboratory Control Spikes: Arochlor 1254 was used for the laboratory control spike. The recoveries were within QC limits for laboratory control spike and laboratory control spike duplicate.

Matrix Spikes: Arochlor 1254 was used for the matrix spike and matrix spike duplicate. The matrix spike recoveries were within QC limits.

Retention Times: All retention times were within QC limits.

Resolution Checks: Since only PCBs were being analyzed for no resolution checks for pesticides were necessary.

Breakdown Products: Since only PCBs were being analyzed for no pesticide breakdown products were checked.

Initial Calibrations: Initial calibrations were analyzed for Arochlor 1016, 1242, 1254 and 1260 and all percent RSDs were within QC limits of an average 20% RSD per arochlor (this is the average % RSD of all 5 peaks).

Calibration Verifications: Calibration verifications were analyzed for Arochlors 1016 and 1260. All percent differences were within QC limits of an average 15%D per arochlor (this is the average %D of all 5 peaks).

All manual integrations in this data package for GC/EC have been performed for one of the following reasons:

a. Data system missed a peak during processing.
b. Data system improperly integrated a peak.

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 designee, as verified by the following signature.

Harry M. Borg

Harry M. Borg
Organic Program Manager

June 22, 2001

Contract Laboratory Program

Sample Delivery Group (SDG) Cover Sheet

SDG Number E30W6

ST 6/11/01

Laboratory Name Southwest Laboratory of Ok. Laboratory Code SWOK

Contract No. 68W99079 Case No. ~~OLM04.2~~ 29294

Analyses Price 910.40 SDG Turnaround 7

2 com ST 6/11/01

EPA Sample Numbers in SDG (Listed in Numerical Order)

1) ~~E30Y6~~ E30W6	7) E30Z1	13) E30Z7	19) E3103
2) ~~E30W6~~ E30Y6	8) E30Z2	14) E30Z8	20) E3104
3) E30Y7	9) E30Z3	15) E30Z9	21)
4) E30Y8	10) E30Z4	16) E3100	22)
5) E30Y9	11) E30Z5	17) E3101	23)
6) E30Z0	12) E30Z6	18) E3102	24)

ST 6/11/01

E30W6

~~E30Y6~~ ST 6/11/01

First Sample in SDG

E3104

Last Sample in SDG

06/09/2001

First Sample Receipt Date

06/09/2001

Last Sample Receipt Date

Note: *There are a maximum of 20* ***field*** *samples (excluding PE samples) in an SDG. Attach TRs to this form in alphanumeric order (the order listed above on this form).*

Signature Harry M Bay Date 6-11-01

Version 2.0

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No:	29294
DAS No:	2001ZG07
SDG No:	~~E3074~~ E30W6

L

Date Shipped:	6/8/01
Carrier Name:	FedEx
Airbill:	821876981976
Shipped to:	Southwest Labs of Oklahoma, Inc. 1700 West Albany Suite C Broken Arrow OK 74012 (918) 251-0545

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
[illegible]	6801 1500	[illegible]	6-9-01 9:30
2			
3			
4			

Sampler Signature:

For Lab Use Only ST 6/11/01

Lab Contract No:	68W99079
Unit Price:	910.40
Transfer To:	
Lab Contract No:	
Unit Price:	

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E30T9	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050449 (Ice Only) (1)	AP-SD054-05	S: 6/7/01	16:03		ST 6/11/01
E30W0	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-50451 (Ice Only) (1)	AP-SD054-05DP	S: 6/7/01	16:03		
E30W1	Sediment/ Joe Klemp	L/G	PCBs (7)	5-050452 (Ice Only) (1)	AP-SD036-01	S: 6/7/01	15:20		
E30W2	Sediment/ Joe Klemp	L/G	PCBs (7)	5-050455 (Ice Only) (1)	AP-SD036-02	S: 6/7/01	15:20		
E30W3	Sediment/ Joe Klemp	L/G	PCBs (7)	5-050457 (Ice Only) (1)	AP-SD036-03	S: 6/7/01	15:20		
E30W4	Sediment/ Joe Klemp	L/G	PCBs (7)	5-050459 (Ice Only) (1)	AP-SD036-04	S: 6/7/01	15:20		
E30W5	Sediment/ Joe Klemp	L/G	PCBs (7)	5-050461 (Ice Only) (1)	AP-SD043-01	S: 6/7/01	16:15		
E30W6	Sediment/ Joe Klemp	L/G	PCBs (7)	5-050462 (Ice Only) (1)	AP-SD043-02	S: 6/7/01	16:15		
E30W7	Sediment/ Joe Klemp	L/G	PCBs (7)	5-050463 (Ice Only) (1)	AP-SD043-03	S: 6/7/01	16:15		
E30W8	Sediment/ Joe Klemp	L/G	PCBs (7)	5-050465 (Ice Only) (1)	AP-SD043-03DP	S: 6/7/01	16:15		

COPY

ORIGINAL DOCUMENTS ARE INCLUDED IN

CSF 29294 SDG E30S4

Signature [illegible]

Date 6/11/01

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC: E30T4, E30W6, E30X7, E30Y9	Additional Sampler Signature(s): [illegible]	Cooler Temperature Upon Receipt: 4.8°C	Chain of Custody Seal Number: 177889, 177890
Analysis Key: PCBs = PCBs	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact?__ Shipment Iced?__

TR Number: 5-201142833-060801-0002

LABORATORY COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Reston, VA. 20191-3436 Phone 703/264-9348 Fax 703/264-9222

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No:	29294
DAS No:	2001ZG07
SDG No:	E30W6

L

Date Shipped:	6/8/01
Carrier Name:	FedEx
Airbill:	821876981976
Shipped to:	Southwest Labs of Oklahoma, Inc. 1700 West Albany Suite C Broken Arrow OK 74012 (918) 251-0545

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
[signature]	6-8-01 1500	[signature]	6-9-01 8:30
2			
3			
4			

Sampler Signature:

For Lab Use Only

Lab Contract No:	68W99079
Unit Price:	910.40
Transfer To:	
Lab Contract No:	
Unit Price:	

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION	SAMPLE COLLECT DATE/TIME			INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E30X9	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050484 (Ice Only) (1)	AP-SL060-04DP	S:	6/7/01	16:51		
E30Y0	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050485 (Ice Only) (1)	AP-SD046-01	S:	6/7/01	18:39		
E30Y1	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050487 (Ice Only) (1)	AP-SD046-02	S:	6/7/01	18:39		
E30Y2	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050489 (Ice Only) (1)	AP-SD046-03	S:	6/7/01	18:39		
E30Y3	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050491 (Ice Only) (1)	AP-SD046-03DP	S:	6/7/01	18:39		
E30Y4	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050492 (Ice Only) (1)	AP-SD046-04	S:	6/7/01	18:39		
E30Y5	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050494 (Ice Only) (1)	AP-SD046-05	S:	6/7/01	18:39		
E30Y6	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050496 (Ice Only) (1)	AP-SD055-01	S:	6/7/01	19:53		
E30Y7	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050499 (Ice Only) (1)	AP-SD055-02	S:	6/7/01	19:53		
E30Y8	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050500 (Ice Only) (1)	AP-SD055-03	S:	6/7/01	19:53		

E30W6

COPY
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294
SDG E30W6
Signature [signature]
Date 6/11/01

6/11/01

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC: E30T4, E30W6, E30X7, E30Y9	Additional Sampler Signature(s): [signature]	Cooler Temperature Upon Receipt: 4.8°C T.B.	Chain of Custody Seal Number: 177889, 177890
Analysis Key: PCBs = PCBs	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact?__ Shipment Iced?__

TR Number: 5-201142833-060801-0002

LABORATORY COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Reston, VA. 20191-3436 Phone 703/264-9348 Fax 703/264-9222

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No:	29294
DAS No:	2001ZG07
SDG No:	E30W6

L

Date Shipped:	6/8/01
Carrier Name:	FedEx
Airbill:	821876981976
Shipped to:	Southwest Labs of Oklahoma, Inc. 1700 West Albany Suite C Broken Arrow OK 74012 (918) 251-0545

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
[illegible]	6-8-01 1500	[illegible]	6-9-01 9:30
2			
3			
4			

Sampler Signature:

For Lab Use Only

Lab Contract No:	68W99009
Unit Price:	910.40
Transfer To:	
Lab Contract No:	
Unit Price:	

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION		SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	FOR LAB USE ONLY E30W6 Sample Condition On Receipt
E30Y9	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050502 (Ice Only) (1)	AP-SD055-04	S:	6/7/01	19:53		
E30Z0	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050504 (Ice Only) (1)	AP-SD055-03DP	S:	6/7/01	19:53		
E30Z1	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050505 (Ice Only) (1)	AP-SD034-01	S:	6/7/01	17:35		
E30Z2	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050506 (Ice Only) (1)	AP-SD034-02	S:	6/7/01	17:35		
E30Z3	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050507 (Ice Only) (1)	AP-SD034-03	S:	6/7/01	17:35		
E30Z4	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050508 (Ice Only) (1)	AP-SD034-04	S:	6/7/01	17:35		
E30Z5	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050509 (Ice Only) (1)	AP-SD034-05	S:	6/7/01	17:35		
E30Z6	Sediment/ Joe Klemp	L/G	PCBs (7)	5-050510 (Ice Only) (1)	AP-SD032-01	S:	6/7/01	19:00		
E30Z7	Sediment/ Joe Klemp	L/G	PCBs (7)	5-050512 (Ice Only) (1)	AP-SD032-02	S:	6/7/01	19:00		
E30Z8	Sediment/ Joe Klemp	L/G	PCBs (7)	5-050514 (Ice Only) (1)	AP-SD032-03	S:	6/7/01	19:00		

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC: E30T4, E30W6, E30X7, E30Y9	Additional Sampler Signature(s): [illegible]	Cooler Temperature Upon Receipt: 4.8°C T.B.	Chain of Custody Seal Number: 177889, 177890
Analysis Key: PCBs = PCBs	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact?__ Shipment Iced?__

TR Number: 5-201142833-060801-0002

LABORATORY COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Reston, VA. 20191-3436 Phone 703/264-9348 Fax 703/264-9222

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No:	29294
DAS No:	2001ZG07
SDG No:	E30W6

L

Date Shipped: 6/8/01	**Chain of Custody Record**	Sampler Signature:	**For Lab Use Only**
Carrier Name: FedEx	Relinquished By (Date / Time)	Received By (Date / Time)	Lab Contract No: 68W99079
Airbill: 821876981976	1 6801 1800	6-9-01 5:30	Unit Price: 910.40
Shipped to: Southwest Labs of Oklahoma, Inc. 1700 West Albany Suite C Broken Arrow OK 74012 (918) 251-0545	2		Transfer To:
	3		Lab Contract No:
	4		Unit Price:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION		SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt E30W6
E30Z9	Sediment/ Joe Klemp	L/G	PCBs (7)	5-050517 (Ice Only) (1)	AP-SD032-04	S:	6/7/01	19:00		
E3100	Sediment/ Joe Klemp	L/G	PCBs (7)	5-50519 (Ice Only) (1)	AP-SD031-01	S:	6/7/01	18:35		
E3101	Sediment/ Joe Klemp	L/G	PCBs (7)	5-050521 (Ice Only) (1)	AP-SD031-02	S:	6/7/01	18:35		
E3102	Sediment/ Joe Klemp	L/G	PCBs (7)	5-050523 (Ice Only) (1)	AP-SD031-03	S:	6/7/01	18:35		
E3103	Sediment/ Joe Klemp	L/G	PCBs (7)	5-050525 (Ice Only) (1)	AP-SD031-04	S:	6/7/01	18:35		
* E3104	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050527 (Ice Only) (1)	AP-SD047-01	S:	6/7/01	19:15		
E3105	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050529 (Ice Only) (1)	AP-SD047-02	S:	6/7/01	19:15		
E3106	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050531 (Ice Only) (1)	AP-SD047-03	S:	6/7/01	19:15		
E3107	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050533 (Ice Only) (1)	AP-SD047-04	S:	6/7/01	19:15		
E3108	Sediment/ Joe Klemp	L/G	PCBs (7)	5-050535 (Ice Only) (1)	AP-SD037-01	S:	6/7/01	15:50		

* SDG Final Sample

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC: E30T4, E30W6, E30X7, E30Y9	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 4.8°C T.B.	Chain of Custody Seal Number: 177889, 177890
Analysis Key: PCBs = PCBs	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact?__ Shipment Iced?__

TR Number: 5-201142833-060801-0002

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Reston, VA. 20191-3436 Phone 703/264-9348 Fax 703/264-9222

2F
SOIL AROCLOR SURROGATE RECOVERY

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30W6

GC Column(1): DB-17MS ID: 0.32(mm) GC Column(2): DB-XLB ID: 0.32(mm)

	CLIENT SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	TOT OUT
01	PBLKSC	91	92	88	93	0
02	ELCS1	72	72	67	70	0
03	ELCS2	91	92	94	97	0
04	E30Y6	72	78	88	82	0
05	E30W6	96	96	90	98	0
06	E30W6MS	82	81	92	89	0
07	E30W6MSD	78	77	78	82	0
08	E30Y7	82	86	87	93	0
09	E30Y8	77	85	182*	173*	2
10	E30Y9	73	75	88	73	0
11	E30Z0	88	94	187*	192*	2
12	E30Z1	92	96	82	83	0
13	E30Z2	92	94	82	85	0
14	E30Z3	80	81	70	71	0
15	E30Z4	80	82	74	75	0
16	E30Z5	90	93	75	80	0
17	E30Z6	67	72	71	72	0
18	E30Z7	86	92	80	82	0
19	E30Z8	73	72	73	75	0
20	E30Z9	76	76	57	61	0
21	E3100	67	71	78	73	0
22	E3101	66	66	69	71	0
23	E3102	73	72	70	77	0
24	E3103	88	88	79	83	0
25	E3104	74	74	71	76	0
26	E30Y6DL	78	82	81	80	0
27						
28						
29						
30						

QC LIMITS

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl (30-170)

Column to be used to flag recovery values
* Values outside of QC limits
D Sample was diluted

FORM II PCB-1

3H

SOIL AROCLOR LABORATORY CONTROL SPIKE/ DUPLICATE RECOVERY

Lab Name: SWL-TULSA Case No.: 29294 SDG No.: E30W6

LCS Sample NO.: ELCS1

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Aroclor-1254	133	105	79	29-135

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aroclor-1254	133	134	100	24	50	29-135

Column to be used to flag recovery values

* Values outside of QC limits

RPD: 0 out of 1 outside limits
Spike Recovery: 0 out of 2 outside limits

Comments: _____

_____

3F

SOIL AROCLOR MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30W6

Matrix Spike - Client Sample NO.: E30W6

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Aroclor-1254	159	9.40	146	86	29-135

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aroclor-1254	162	128	73	13	50	29-135

Column to be used to flag recovery values

* Values outside of QC limits

RPD: 0 out of 1 outside limits
Spike Recovery: 0 out of 2 outside limits

Comments: _____

_____

4C
AROCLOR METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

PBLKSC

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30W6

Lab Sample ID: BL0609SC Lab File ID: 15062043

Matrix: (soil/water) SOIL Extraction: (SepF/Cont/Sonc) N

Sulfur Cleanup: (Y/N) N Date Extracted: 06/09/01

Date Analyzed (1): 06/21/01 Date Analyzed (2): 06/21/01

Time Analyzed (1): 0127 Time Analyzed (2): 0127

Instrument ID (1): HP_15A Instrument ID (2): HP_15B

GC Column (1): DB-17MS ID: 0.32(mm) GC Column (2): DB-XLB ID: 0.32(mm)

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	ELCS1	LC0609SC	06/21/01	06/21/01
02	ELCS2	LD0609SC	06/21/01	06/21/01
03	E30Y6	46732.38	06/21/01	06/21/01
04	E30W6	46732.39	06/21/01	06/21/01
05	E30W6MS	46732.40MS	06/21/01	06/21/01
06	E30W6MSD	46732.41MSD	06/21/01	06/21/01
07	E30Y7	46732.42	06/21/01	06/21/01
08	E30Y8	46732.43	06/21/01	06/21/01
09	E30Y9	46732.44	06/21/01	06/21/01
10	E30Z0	46732.45	06/21/01	06/21/01
11	E30Z1	46732.46	06/21/01	06/21/01
12	E30Z2	46732.47	06/21/01	06/21/01
13	E30Z3	46732.48	06/21/01	06/21/01
14	E30Z4	46732.49	06/21/01	06/21/01
15	E30Z5	46732.50	06/21/01	06/21/01
16	E30Z6	46732.51	06/21/01	06/21/01
17	E30Z7	46732.52	06/21/01	06/21/01
18	E30Z8	46732.53	06/21/01	06/21/01
19	E30Z9	46732.54	06/21/01	06/21/01
20	E3100	46732.55	06/21/01	06/21/01
21	E3101	46732.56	06/21/01	06/21/01
22	E3102	46732.57	06/21/01	06/21/01
23	E3103	46732.58	06/21/01	06/21/01
24	E3104	46732.59	06/21/01	06/21/01
25	E30Y6DL	46732.38DL	06/21/01	06/21/01
26				

Comments: _____

FORM IV PCB

HYDROGEN USED AS CARRIER GAS FOR SAMPLE ANALYSES

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E30W6

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30W6

Matrix: (soil/water) SOIL Lab Sample ID: 46732.39

Sample wt/vol: 30.8 (g/mL) G Lab File ID:_____

% Moisture: 18 decanted: (Y/N) __ Date Received: 06/09/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:06/09/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/21/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	39	U
11104-28-2	Aroclor-1221	39	U
11141-16-5	Aroclor-1232	39	U
53469-21-9	Aroclor-1242	20	J
12672-29-6	Aroclor-1248	39	U
11097-69-1	Aroclor-1254	9.4	J
11096-82-5	Aroclor-1260	39	U
	Surrogate amount spiked	7.92	

FORM I PCB

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E30Y6

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30W6

Matrix: (soil/water) SOIL Lab Sample ID: 46732.38

Sample wt/vol: 30.1 (g/mL) G Lab File ID:_____

% Moisture: 46 decanted: (Y/N) __ Date Received: 06/09/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:06/09/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/21/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

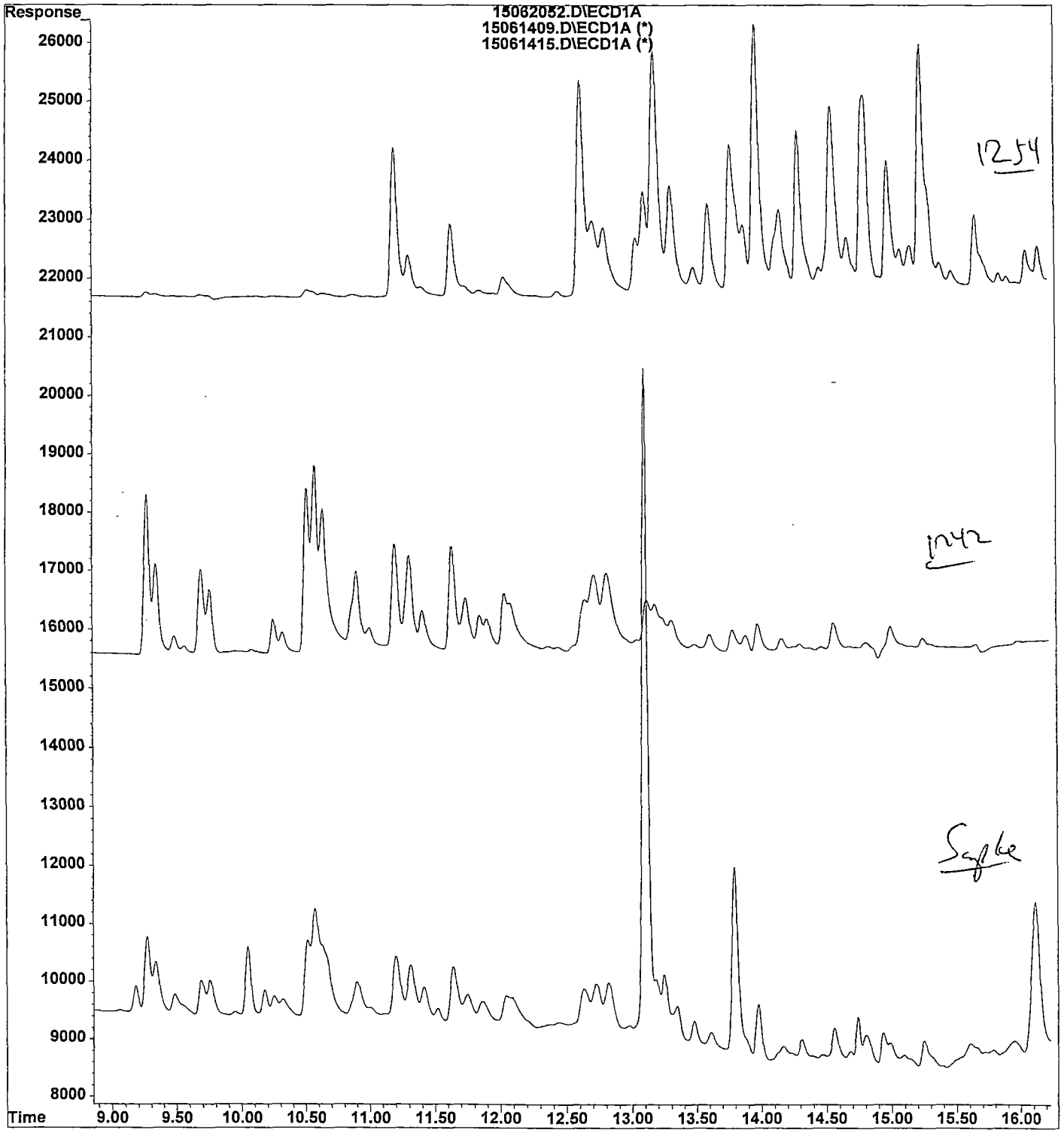
GPC Cleanup: (Y/N) Y pH: 7.1 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	61	U
11104-28-2	Aroclor-1221	61	U
11141-16-5	Aroclor-1232	61	U
53469-21-9	Aroclor-1242	~~660~~ 760	~~E~~
12672-29-6	Aroclor-1248	61	U
11097-69-1	Aroclor-1254	~~300~~ ~~530~~	
11096-82-5	Aroclor-1260	~~150~~ ~~170~~	TB
Surrogate amount spiked		12.30	

TBS 7/11/01 apply this results

FORM I PCB

File : F:\HPCHEM\HP\15\DATA\06_20_01\15062052.D
Operator : DDC
Acquired : 21 Jun 2001 4:55 using AcqMethod OLM03.M
Instrument : HP_15
Sample Name: 46732.39
Misc Info :
Vial Number: 48



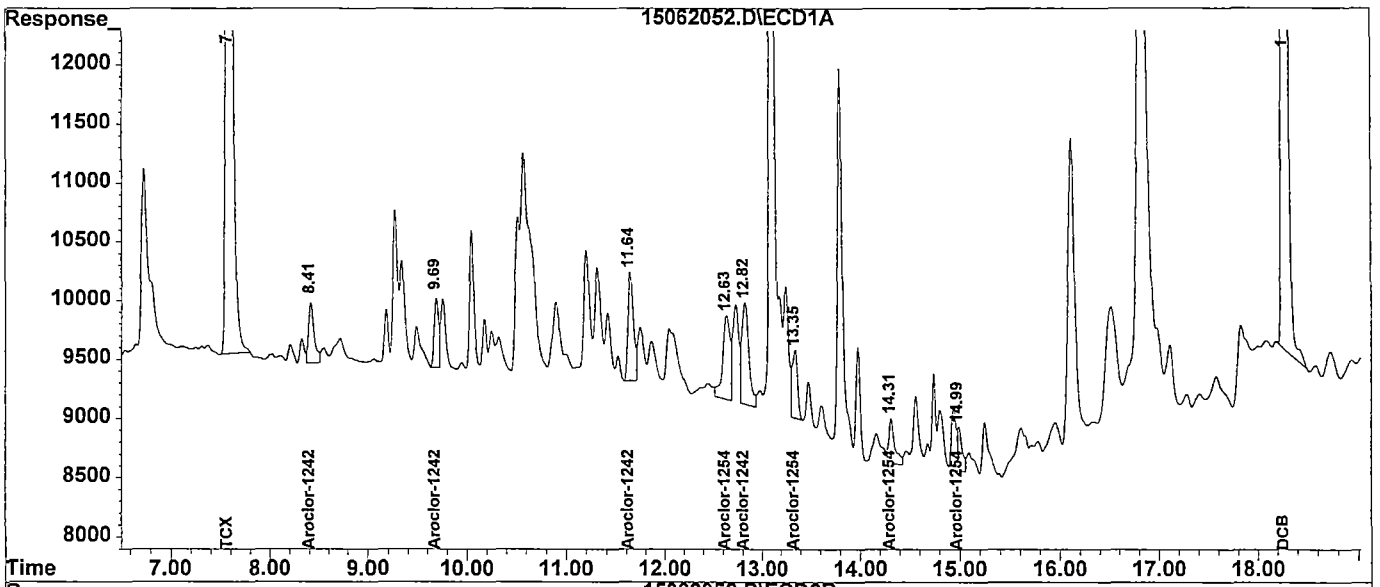
Chromatographic Report

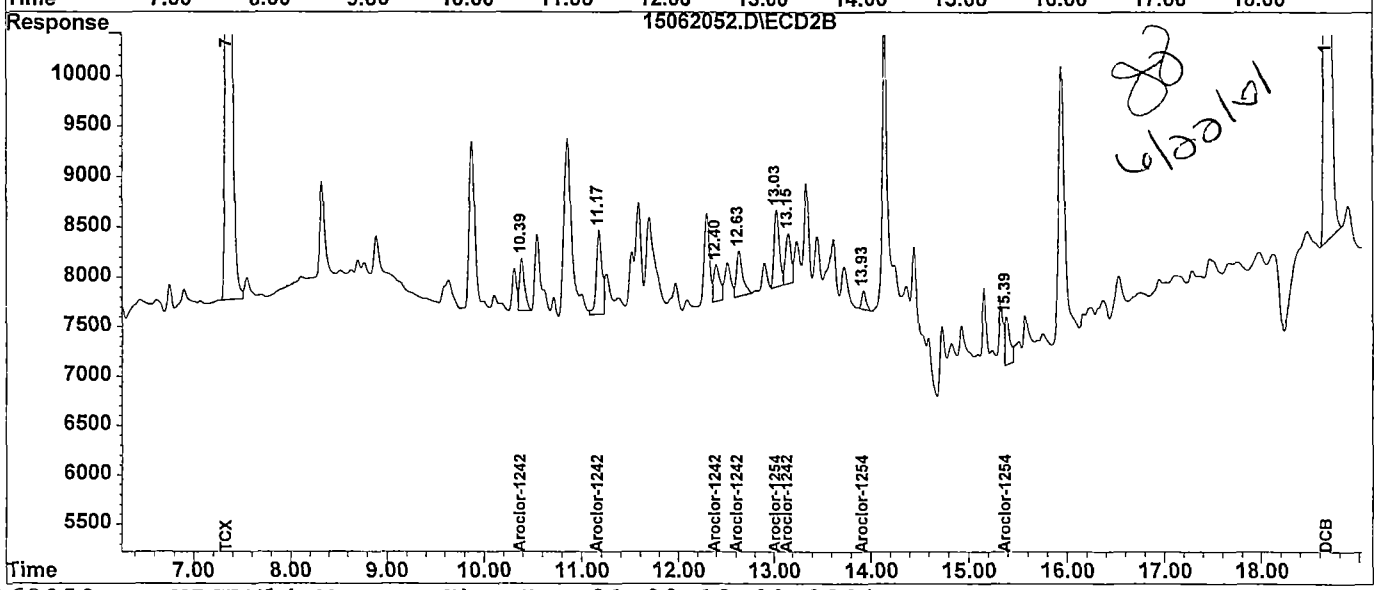
Data File : F:\HPCHEM\HP\15\DATA\06_20_01\15062052.D\ECD1A.CH Vial: 48
Acq On : 21 Jun 2001 4:55 Operator: DDC
Sample : 46732.39 *E30W6 * Inst : HP_15
Misc : *EPA*30.8G/5.0ML*18 Dilution: 1.00
IntFile : events.e

Data File : F:\HPCHEM\HP\15\DATA\06_20_01\15062052.D\ECD2B.CH Vial: 48
Acq On : 21 Jun 2001 4:55 Operator: DDC
Sample : 46732.39 Inst : HP_15
Misc : Dilution: 1.00
IntFile : events2.e
Quant Time: Jun 21 9:17 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/22/01

Quantitation Report

Data File : F:\HPCHEM\HP\15\DATA\06_20_01\15062052.D\ECD1A.CH Vial: 48
Acq On : 21 Jun 2001 4:55 Operator: DDC
Sample : 46732.39 *E30W6 * Inst : HP_15
Misc : *EPA*30.8G/5.0ML*18 Dilution: 1.00
IntFile : events.e

Data File : F:\HPCHEM\HP\15\DATA\06_20_01\15062052.D\ECD2B.CH Vial: 48
Acq On : 21 Jun 2001 4:55 Operator: DDC
Sample : 46732.39 Inst : HP_15
Misc : Dilution: 1.00
IntFile : events2.e
Quant Time: Jun 21 9:17 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	7.58	7.35	481604	445635	7.603	7.614	
	Spiked Amount 7.919			Recovery	=	96.01%	96.15%	
2)	S DCB	18.28	18.68	469026	467243	7.166	7.808	
	Spiked Amount 7.919			Recovery	=	90.49%	98.60%	
	Target Compounds:							
7)	L4 Aroclor-1242	8.41	10.39	20494	19627	13.9	27.6	#
8)	L4 Aroclor-1242 {2}	9.69	11.18	17879	32637	18.1	27.0	#
9)	L4 Aroclor-1242 {3}	0.00	12.40	0	16298	N.D. d	24.0	#
10)	L4 Aroclor-1242 {4}	11.65	12.63	36457	20592	25.1	26.6	
11)	L4 Aroclor-1242 {5}	12.82	13.16	44147	19902	21.9	18.4	
	Sum Aroclor-1242			118978	109056	79.1	123.4	
	Average Aroclor-1242					19.774	24.686	
12)	L6 Aroclor-1254	12.64	0.00	36050	0	12.3	N.D. d	#
13)	L6 Aroclor-1254 {2}	13.35	13.03	22274	30584	11.9	25.5	#
14)	L6 Aroclor-1254 {3}	0.00	13.93	0	5779	N.D. d	4.413	#
15)	L6 Aroclor-1254 {4}	14.32	0.00	16482	0	7.055	N.D. d	#
16)	L6 Aroclor-1254 {5}	14.99	15.39	12466	16684	6.343	7.221	
	Sum Aroclor-1254			87272	53046	37.6	37.1	
	Average Aroclor-1254					9.395	12.372	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E30Y6DL

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30W6

Matrix: (soil/water) SOIL Lab Sample ID: 46732.38DL

Sample wt/vol: 30.1 (g/mL) G Lab File ID:_____

% Moisture: 46 decanted: (Y/N) __ Date Received: 06/09/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:06/09/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/21/01

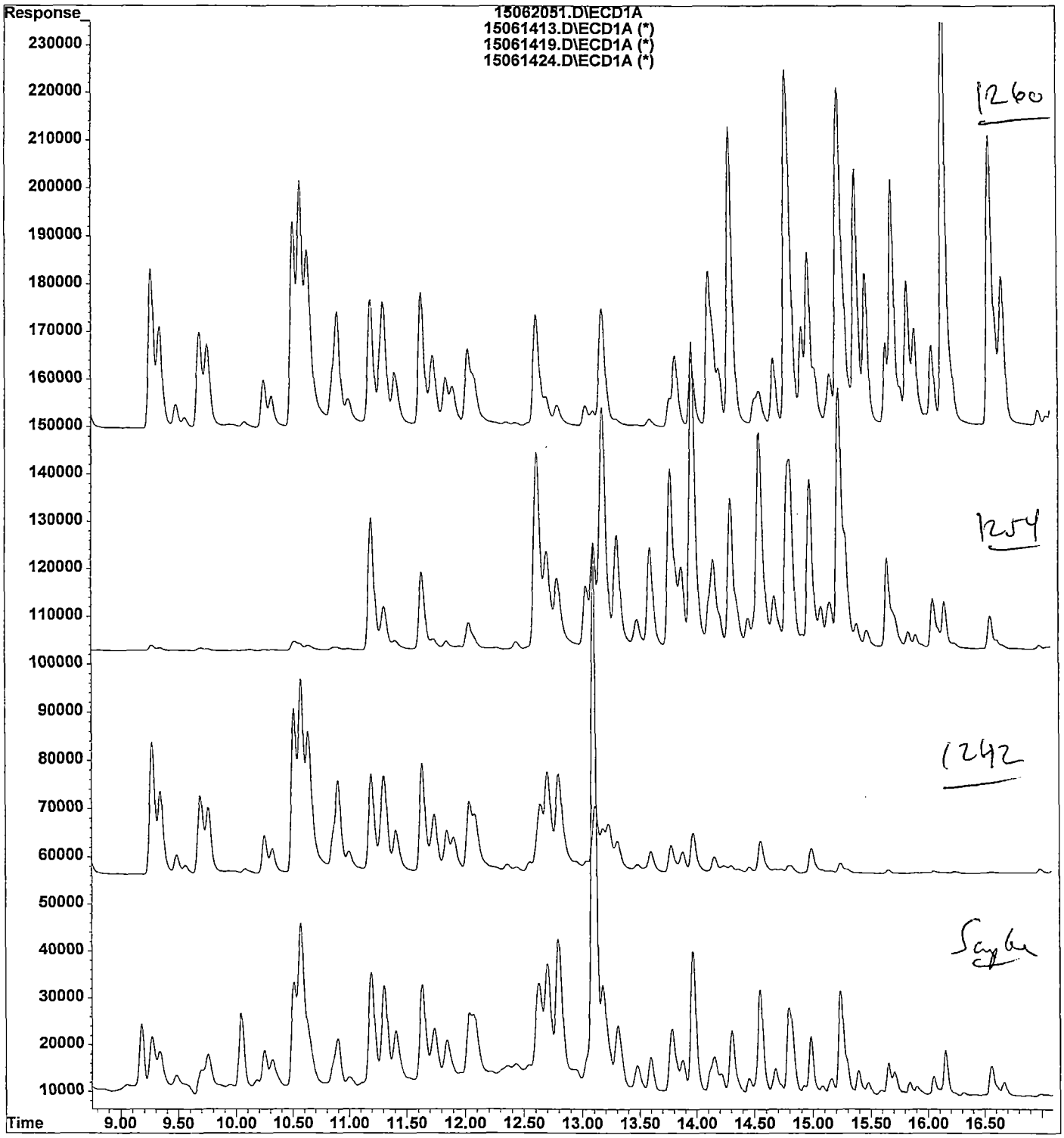
Injection Volume: 0.5(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 7.1 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	120	U
11104-28-2	Aroclor-1221	120	U
11141-16-5	Aroclor-1232	120	U
53469-21-9	Aroclor-1242	760	D
12672-29-6	Aroclor-1248	120	U
11097-69-1	Aroclor-1254	330	D
11096-82-5	Aroclor-1260	170	D
Surrogate amount spiked		12.30	

FORM I PCB

File : F:\HPCHEM\HP\15\DATA\06_20_01\15062051.D
Operator : DDC
Acquired : 21 Jun 2001 4:32 using AcqMethod OLM03.M
Instrument : HP_15
Sample Name: 46732.38
Misc Info :
Vial Number: 47



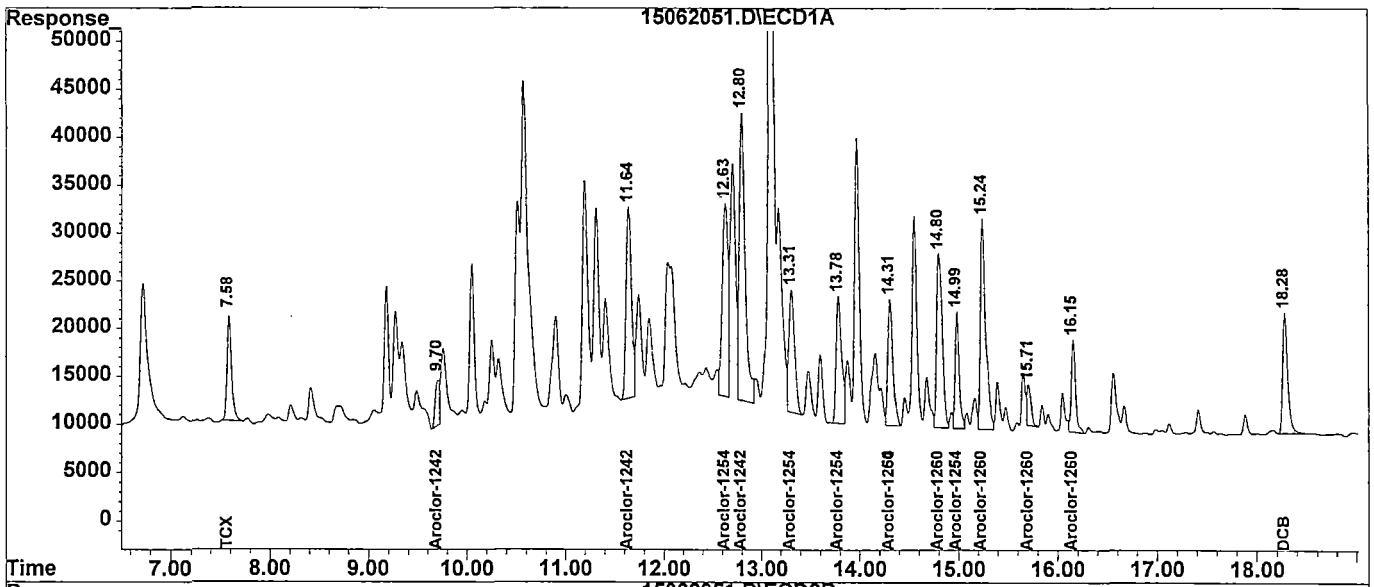
Chromatographic Report

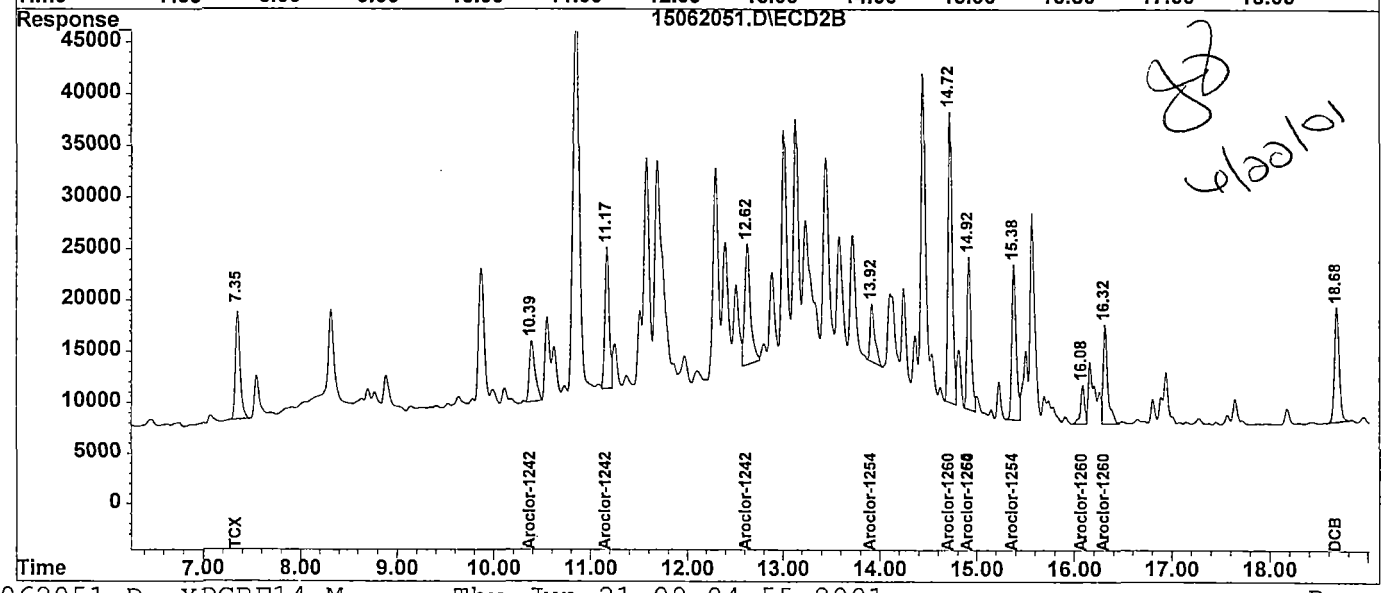
Data File : F:\HPCHEM\HP\15\DATA\06_20_01\15062051.D\ECD1A.CH Vial: 47
Acq On : 21 Jun 2001 4:32 Operator: DDC
Sample : 46732.38 *E30Y6 * Inst : HP_15
Misc : *EPA*30.1G/5.0ML*46 Dilution: 1.00
IntFile : events.e

Data File : F:\HPCHEM\HP\15\DATA\06_20_01\15062051.D\ECD2B.CH Vial: 47
Acq On : 21 Jun 2001 4:32 Operator: DDC
Sample : 46732.38 Inst : HP_15
Misc : Dilution: 1.00
IntFile : events2.e
Quant Time: Jun 21 9:04 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/20/01

Quantitation Report

Data File : F:\HPCHEM\HP\15\DATA\06_20_01\15062051.D\ECD1A.CH Vial: 47
Acq On : 21 Jun 2001 4:32 Operator: DDC
Sample : 46732.38 *E30Y6 * Inst : HP_15
Misc : *EPA*30.1G/5.0ML*46 Dilution: 1.00
IntFile : events.e

Data File : F:\HPCHEM\HP\15\DATA\06_20_01\15062051.D\ECD2B.CH Vial: 47
Acq On : 21 Jun 2001 4:32 Operator: DDC
Sample : 46732.38 Inst : HP_15
Misc : Dilution: 1.00
IntFile : events2.e
Quant Time: Jun 21 9:04 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
System Monitoring Compounds:						
1) S TCX	7.58	7.35	363249	359318	8.910	9.540
Spiked Amount 12.305			Recovery	=	72.41%	77.53%
S DCB	18.28	18.68	454986	389885	10.8	10.1
Spiked Amount 12.305			Recovery	=	87.77%	82.08%
Target Compounds:						
7) L4 Aroclor-1242	0.00	10.39	0	236798	N.D. d	517.0 #
8) L4 Aroclor-1242 {2}	9.71	11.17	120863	422406	189.9	542.8 #
10) L4 Aroclor-1242 {4}	11.64	12.63	730256	475934	782.0	953.7
11) L4 Aroclor-1242 {5}	12.80	0.00	1297867	0	1002.4 E	N.D. d #
Sum Aroclor-1242			2148985	1135139	1974.3	2013.4
Average Aroclor-1242					658.112	671.129
12) L6 Aroclor-1254	12.63	0.00	823469	0	436.5	N.D. d #
13) L6 Aroclor-1254 {2}	13.31	0.00	527299	0	437.2	N.D. d #
14) L6 Aroclor-1254 {3}	13.79	13.92	515449	191590	307.4	227.3 #
15) L6 Aroclor-1254 {4}	14.31	14.92	462169	439336	307.4	365.2
16) L6 Aroclor-1254 {5}	14.99	15.39	350356	471295	277.0	316.9
Sum Aroclor-1254			2678743	1102220	1765.5	909.5
Average Aroclor-1254					353.093	303.166
17) L7 Aroclor-1260	14.31	0.00	462169	0	174.8	N.D. d #
18) L7 Aroclor-1260 {2}	14.80	14.72	745140	844088	209.6	361.6 #
19) L7 Aroclor-1260 {3}	15.25	14.92	841444	439336	248.2	159.0 #
20) L7 Aroclor-1260 {4}	15.71	16.09	123408	107757	63.7	68.0
21) L7 Aroclor-1260 {5}	16.16	16.32	282888	317007	73.4	82.5
Sum Aroclor-1260			2455050	1708187	473.6	412.9
Average Aroclor-1260					153.946	167.767

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

Quantitation Report

```
Data File : F:\HPCHEM\HP\15\DATA\06_20_01\15062087.D\ECD1A.CH Vial: 83
Acq On    : 21 Jun 2001  18:25                        Operator: DDC
Sample    : 46732.38DL  *E30Y6DL  *                   Inst    : HP_15
Misc      : *EPA*30.1G/5.0ML*46                       Dilution: 2.00
IntFile   : events.e

Data File : F:\HPCHEM\HP\15\DATA\06_20_01\15062087.D\ECD2B.CH Vial: 83
Acq On    : 21 Jun 2001  18:25                        Operator: DDC
Sample    : 46732.38DL                                Inst    : HP_15
Misc      :                                           Dilution: 2.00
IntFile   : events2.e
Quant Time: Jun 21 21:32 2001  Quant Results File: XPCBF14.RES

Method       : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path   : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update  : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj.      : 0.5uL
Signal #1 Phase : DB-17MS          Signal #2 Phase: DB-XLB
Signal #1 Info  : .32 mm           Signal #2 Info : .32 mm
Signal #1 Inst  : HP_15A           Signal #2 Inst : HP_15B
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	7.59	7.35	194773	189858	9.555	10.1	
	Spiked Amount 12.305			Recovery	=	77.65%	82.08%	
	S DCB	18.29	18.69	209877	188625	9.965	9.795	
	Spiked Amount 12.305			Recovery	=	80.99%	79.60%	
	Target Compounds:							
7)	L4 Aroclor-1242	8.42	10.40	98950	126388	209.2	551.8	#
8)	L4 Aroclor-1242 {2}	0.00	11.18	0	230951	N.D. d	593.5	#
10)	L4 Aroclor-1242 {4}	11.65	12.63	432342	260729	925.9	1044.9	
11)	L4 Aroclor-1242 {5}	12.81	13.15	735734	431165	1136.5	1235.8	
	Sum Aroclor-1242			1267026	1049232	2271.7	3426.0	
	Average Aroclor-1242					757.225	856.501	
12)	L6 Aroclor-1254	12.64	0.00	449708	0	476.8	N.D. d	#
13)	L6 Aroclor-1254 {2}	13.32	0.00	298140	0	494.4	N.D. d	#
14)	L6 Aroclor-1254 {3}	13.79	13.93	286704	105252	342.0	249.8	#
15)	L6 Aroclor-1254 {4}	14.32	14.93	263912	251785	351.0	418.6	
16)	L6 Aroclor-1254 {5}	14.99	15.39	177558	242970	280.8	326.8	
	Sum Aroclor-1254			1476022	600008	1944.9	995.2	
	Average Aroclor-1254					388.982	331.730	
17)	L7 Aroclor-1260	14.32	0.00	263912	0	199.6	N.D. d	#
18)	L7 Aroclor-1260 {2}	14.81	14.73	405427	467001	228.1	400.1	#
19)	L7 Aroclor-1260 {3}	15.25	14.93	430230	251785	253.8	182.3	#
20)	L7 Aroclor-1260 {4}	15.72	16.09	61882	52504	63.9	66.2	
21)	L7 Aroclor-1260 {5}	16.16	16.32	204280	167660	106.1	87.2	
	Sum Aroclor-1260			1365730	938950	1047.7	905.5	
	Average Aroclor-1260					170.293	183.968	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

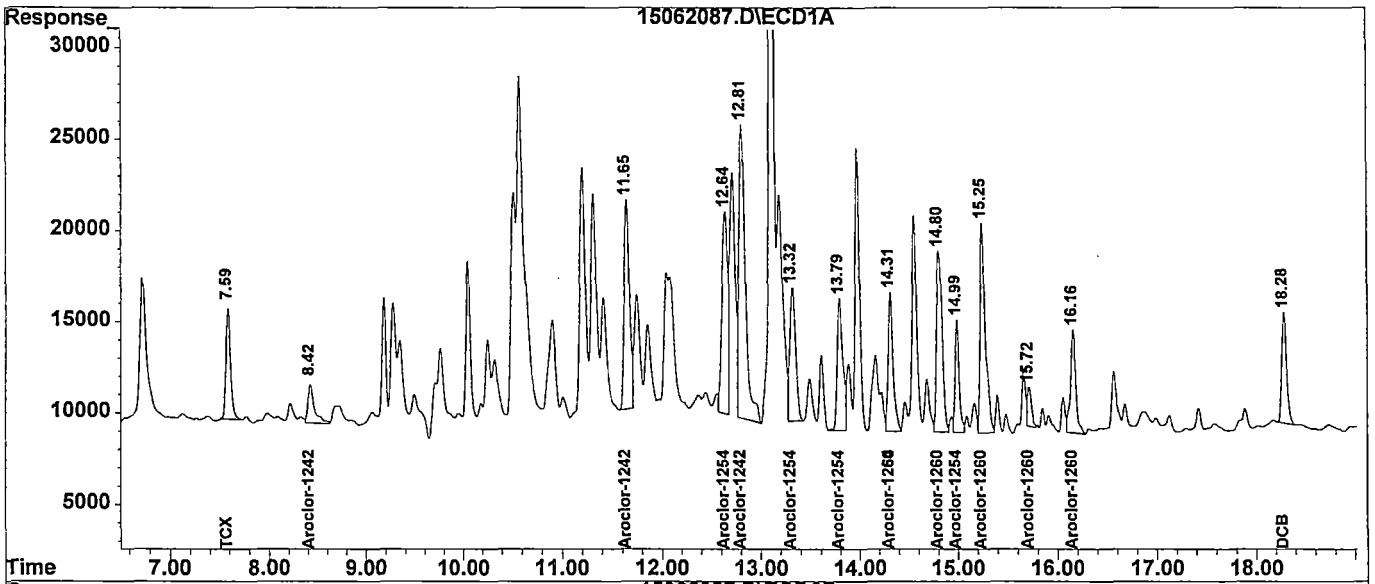
Chromatographic Report

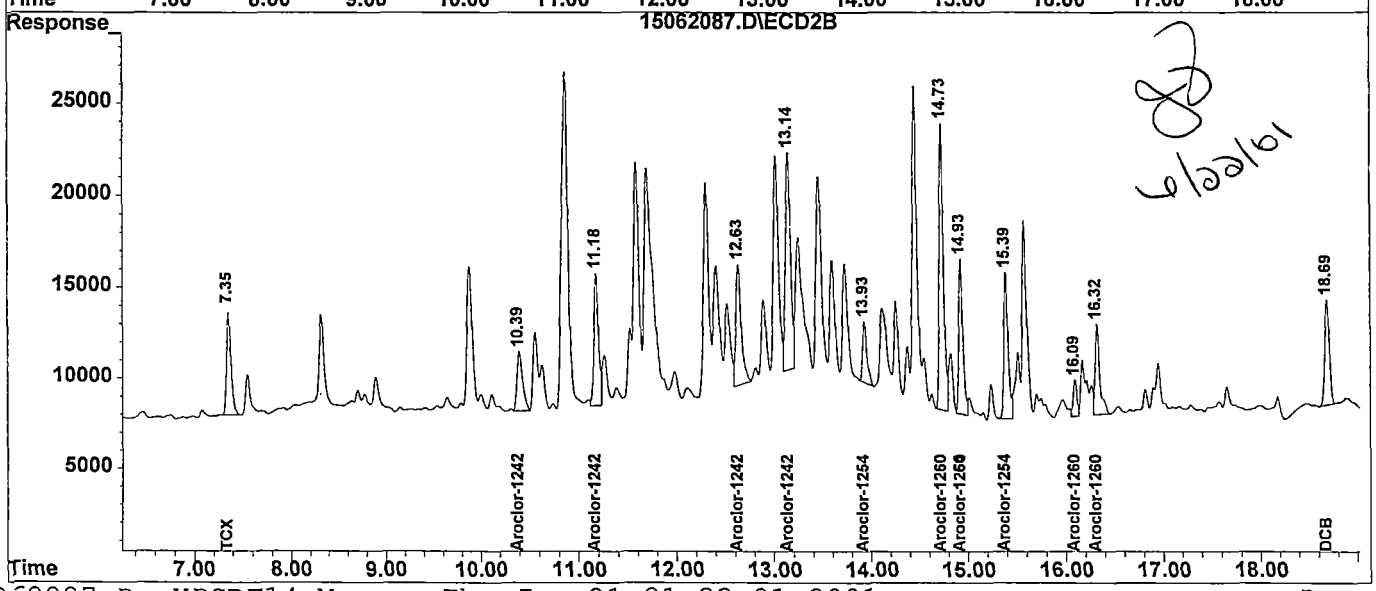
Data File : F:\HPCHEM\HP\15\DATA\06_20_01\15062087.D\ECD1A.CH Vial: 83
Acq On : 21 Jun 2001 18:25 Operator: DDC
Sample : 46732.38DL *E30Y6DL * Inst : HP_15
Misc : *EPA*30.1G/5.0ML*46 Dilution: 2.00
IntFile : events.e

Data File : F:\HPCHEM\HP\15\DATA\06_20_01\15062087.D\ECD2B.CH Vial: 83
Acq On : 21 Jun 2001 18:25 Operator: DDC
Sample : 46732.38DL Inst : HP_15
Misc : Dilution: 2.00
IntFile : events2.e
Quant Time: Jun 21 21:32 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/22/01

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E30Y7

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30W6

Matrix: (soil/water) SOIL Lab Sample ID: 46732.42

Sample wt/vol: 30.2 (g/mL) G Lab File ID:_____

% Moisture: 24 decanted: (Y/N) __ Date Received: 06/09/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:06/09/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/21/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.6 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	43	U
11104-28-2	Aroclor-1221	43	U
11141-16-5	Aroclor-1232	43	U
53469-21-9	Aroclor-1242	250	
12672-29-6	Aroclor-1248	43	U
11097-69-1	Aroclor-1254	180	
11096-82-5	Aroclor-1260	150	
	Surrogate amount spiked	8.71	

Quantitation Report

Data File : F:\HPCHEM\HP\15\DATA\06_20_01\15062055.D\ECD1A.CH Vial: 51
Acq On : 21 Jun 2001 6:05 Operator: DDC
Sample : 46732.42 *E30Y7 * Inst : HP_15
Misc : *EPA*30.2G/5.0ML*24 Dilution: 1.00
IntFile : events.e

Data File : F:\HPCHEM\HP\15\DATA\06_20_01\15062055.D\ECD2B.CH Vial: 51
Acq On : 21 Jun 2001 6:05 Operator: DDC
Sample : 46732.42 Inst : HP_15
Misc : Dilution: 1.00
IntFile : events2.e
Quant Time: Jun 21 9:26 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	7.58	7.35	413931	400665	7.190	7.533	
	Spiked Amount 8.714			Recovery	=	82.51%	86.45%	
	S DCB	18.28	18.68	451250	439451	7.587	8.081	
	Spiked Amount 8.714			Recovery	=	87.07%	92.74%	
	Target Compounds:							
7)	L4 Aroclor-1242	0.00	10.39	0	145713	N.D. d	225.3	#
8)	L4 Aroclor-1242 {2}	9.76f	11.17	264318	161013	294.2	146.5	#
9)	L4 Aroclor-1242 {3}	10.57f	0.00	970255	0	416.5	N.D. d	#
10)	L4 Aroclor-1242 {4}	11.64	12.63	488122	271686	370.2	385.5	
11)	L4 Aroclor-1242 {5}	12.80	0.00	791363	0	432.8	N.D. d	#
	Sum Aroclor-1242			2514058	578412	1513.7	757.3	
	Average Aroclor-1242					378.423	252.439	
12)	L6 Aroclor-1254	12.63	0.00	473190	0	177.6	N.D. d	#
13)	L6 Aroclor-1254 {2}	13.31	0.00	366866	0	215.4	N.D. d	#
14)	L6 Aroclor-1254 {3}	13.78	13.92	250568	123613	105.8	103.9	
15)	L6 Aroclor-1254 {4}	14.31	14.92	548683	721917	258.4	425.0	#
16)	L6 Aroclor-1254 {5}	14.99	15.38	288868	502530	161.7	239.3	#
	Sum Aroclor-1254			1928176	1348060	919.0	768.2	
	Average Aroclor-1254					183.803	256.067	
17)	L7 Aroclor-1260	14.31	0.00	548683	0	147.0	N.D. d	#
18)	L7 Aroclor-1260 {2}	14.80	14.72	857457	710348	170.8	215.5	#
19)	L7 Aroclor-1260 {3}	15.25	14.92	670311	721917	140.0	185.1	#
20)	L7 Aroclor-1260 {4}	15.71	16.09	324873	326847	118.8	146.0	
21)	L7 Aroclor-1260 {5}	16.16	16.32	893613	1035810	164.3	190.9	
	Sum Aroclor-1260			3294936	2794921	322.8	321.3	
	Average Aroclor-1260					148.173	184.354	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

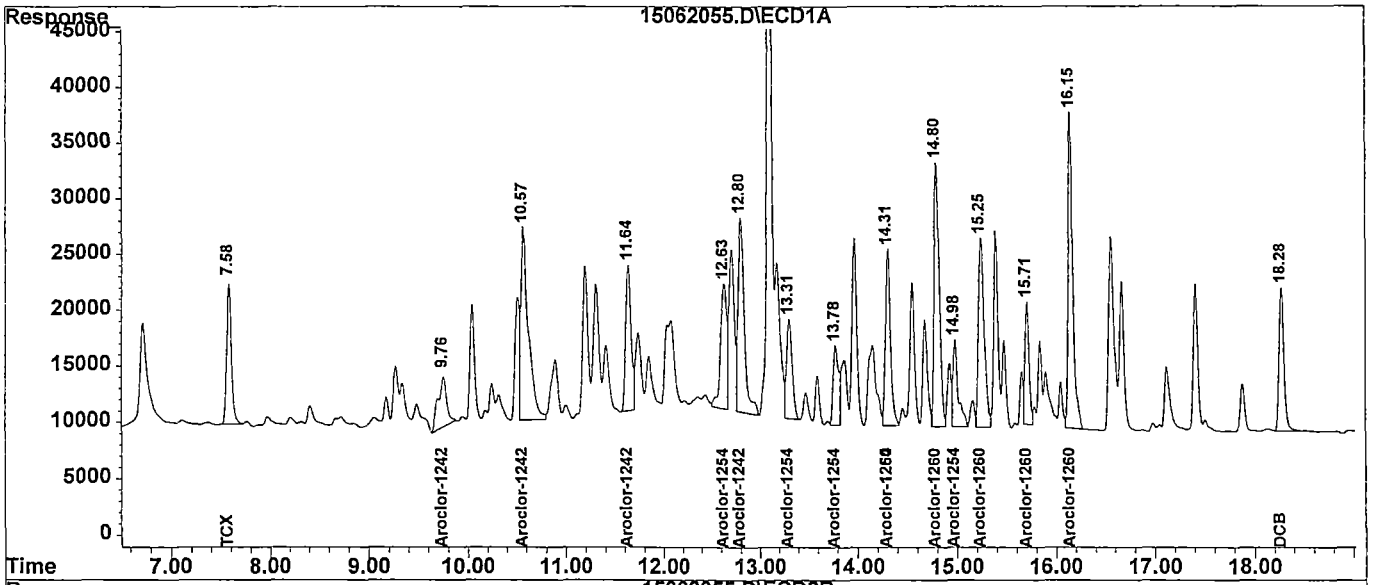
Chromatographic Report

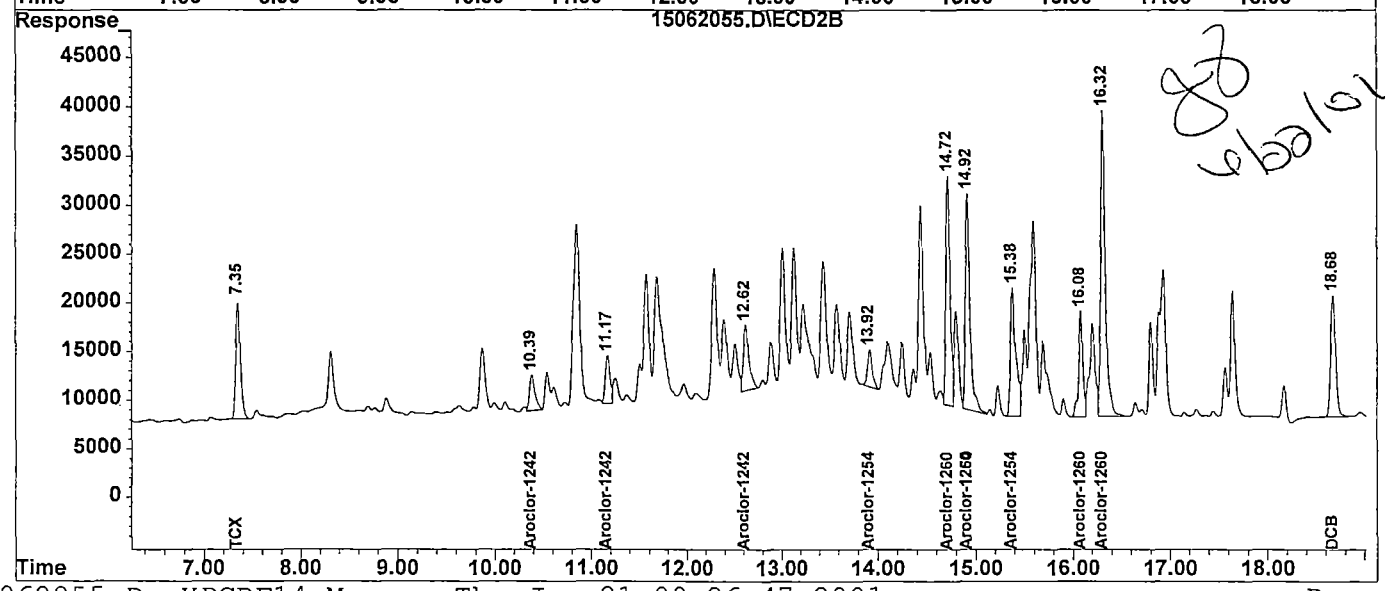
Data File : F:\HPCHEM\HP\15\DATA\06_20_01\15062055.D\ECD1A.CH Vial: 51
Acq On : 21 Jun 2001 6:05 Operator: DDC
Sample : 46732.42 *E30Y7 * Inst : HP_15
Misc : *EPA*30.2G/5.0ML*24 Dilution: 1.00
IntFile : events.e

Data File : F:\HPCHEM\HP\15\DATA\06_20_01\15062055.D\ECD2B.CH Vial: 51
Acq On : 21 Jun 2001 6:05 Operator: DDC
Sample : 46732.42 Inst : HP_15
Misc : Dilution: 1.00
IntFile : events2.e
Quant Time: Jun 21 9:26 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

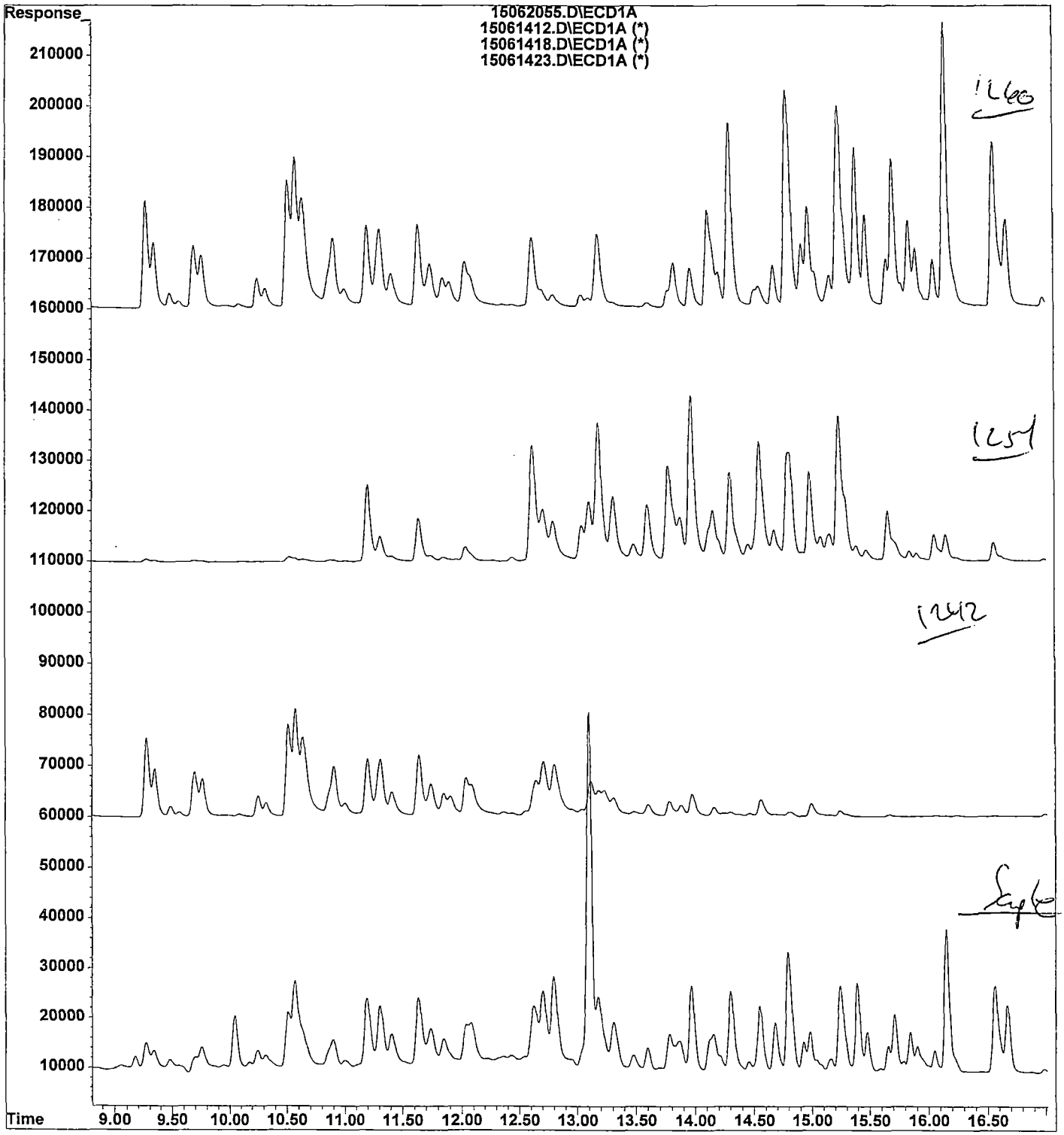
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





87
6/20/01

File : F:\HPCHEM\HP\15\DATA\06_20_01\15062055.D
Operator : DDC
Acquired : 21 Jun 2001 6:05 using AcqMethod OLM03.M
Instrument : HP_15
Sample Name: 46732.42
Misc Info :
Vial Number: 51



1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E30Y8

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30W6

Matrix: (soil/water) SOIL Lab Sample ID: 46732.43

Sample wt/vol: 31.0 (g/mL) G Lab File ID:_____

% Moisture: 63 decanted: (Y/N) __ Date Received: 06/09/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:06/09/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/21/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.3 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	86	U
11104-28-2	Aroclor-1221	86	U
11141-16-5	Aroclor-1232	86	U
53469-21-9	Aroclor-1242	100	~~P~~ PJ
12672-29-6	Aroclor-1248	86	U
11097-69-1	Aroclor-1254	180	J
11096-82-5	Aroclor-1260	180	J
Surrogate amount spiked		17.43	

TBS 7/10/01

FORM I PCB

Quantitation Report

Data File : F:\HPCHEM\HP\15\DATA\06_20_01\15062056.D\ECD1A.CH Vial: 52
Acq On : 21 Jun 2001 6:28 Operator: DDC
Sample : 46732.43 *E30Y8 * Inst : HP_15
Misc : *EPA*31G/5.0ML*63 Dilution: 1.00
IntFile : events.e

Data File : F:\HPCHEM\HP\15\DATA\06_20_01\15062056.D\ECD2B.CH Vial: 52
Acq On : 21 Jun 2001 6:28 Operator: DDC
Sample : 46732.43 Inst : HP_15
Misc : Dilution: 1.00
IntFile : events2.e
Quant Time: Jun 21 9:31 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
System Monitoring Compounds:						
1) S TCX	7.58	7.35	387984	394331	13.5	14.8
Spiked Amount 17.437			Recovery	=	77.42%	84.88%
S DCB	18.29	18.69	941857	819708	31.7	30.2
Spiked Amount 17.437			Recovery	=	181.80%	173.20%
Target Compounds:						
7) L4 Aroclor-1242	8.42	10.40	17783	172314	26.6	533.1 #
8) L4 Aroclor-1242 {2}	9.70	0.00	37461	0	83.4	N.D. d #
9) L4 Aroclor-1242 {3}	10.63	0.00	214914	0	184.6 DDC 6-4-01	N.D. d # DDC 6-4-01
10) L4 Aroclor-1242 {4}	11.67	12.63	70432	26928	106.9m	76.5m #
11) L4 Aroclor-1242 {5}	0.00	13.14	0	179364	N.D. d	364.2m #
Sum Aroclor-1242			340591	378606	401.6	973.8
Average Aroclor-1242					100.392	324.596
12) L6 Aroclor-1254	0.00	12.30	0	48881	N.D. d	117.9 #
14) L6 Aroclor-1254 {3}	13.79	0.00	224221	0	189.5	N.D. d #
15) L6 Aroclor-1254 {4}	14.31	14.92	292394	215363	275.6	253.7
16) L6 Aroclor-1254 {5}	14.99	15.39	94222	161384	105.6	153.8 #
Sum Aroclor-1254			610838	425627	570.6	525.4
Average Aroclor-1254					190.211	175.123
17) L7 Aroclor-1260	14.31	0.00	292394	0	156.7	N.D. d #
18) L7 Aroclor-1260 {2}	14.81	0.00	570970	0	227.6	N.D. d #
19) L7 Aroclor-1260 {3}	15.25	14.92	299314	215363	125.1	110.5
20) L7 Aroclor-1260 {4}	0.00	16.09	0	243695	N.D. d	217.8 #
21) L7 Aroclor-1260 {5}	16.16	16.32	684383	558773	251.8	206.0
Sum Aroclor-1260			1847061	1017831	663.6	465.8
Average Aroclor-1260					190.291	178.109

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

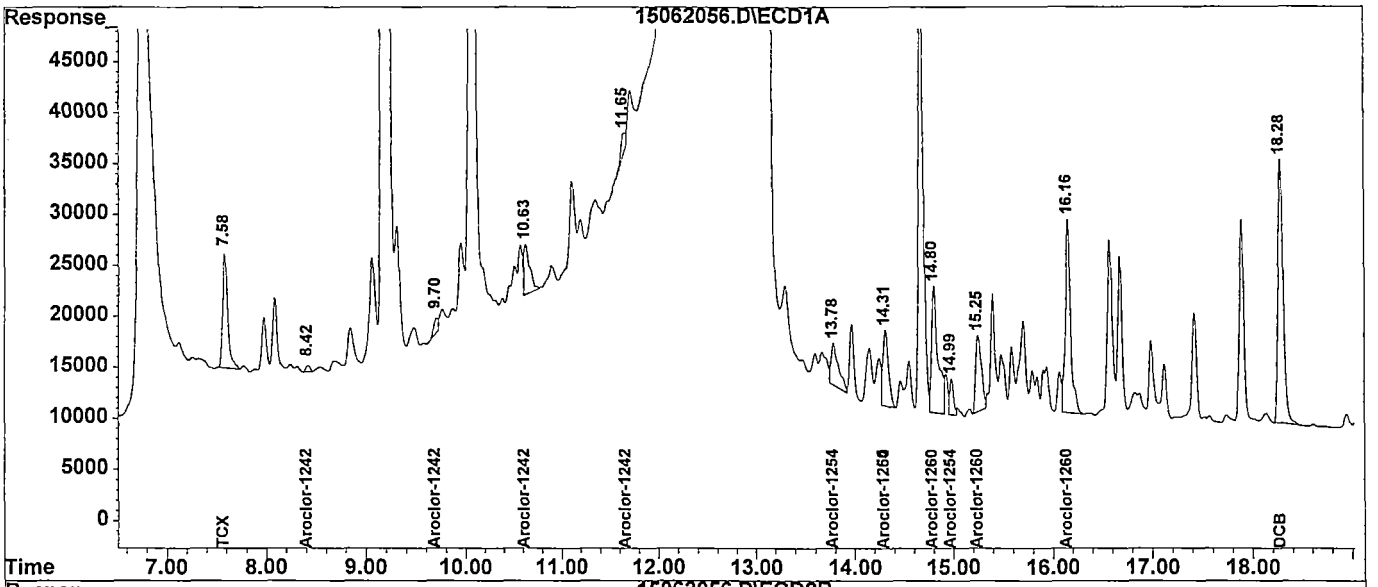
Chromatographic Report

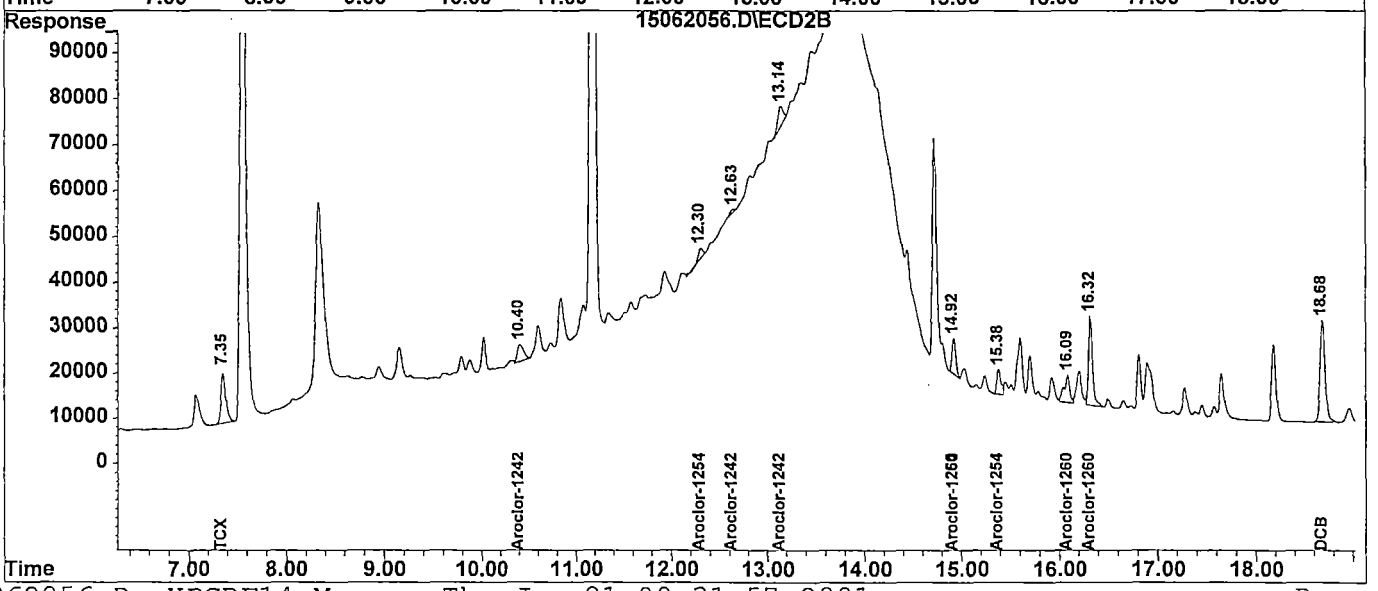
Data File : F:\HPCHEM\HP\15\DATA\06_20_01\15062056.D\ECD1A.CH Vial: 52
Acq On : 21 Jun 2001 6:28 Operator: DDC
Sample : 46732.43 *E30Y8 * Inst : HP_15
Misc : *EPA*31G/5.0ML*63 Dilution: 1.00
IntFile : events.e

Data File : F:\HPCHEM\HP\15\DATA\06_20_01\15062056.D\ECD2B.CH Vial: 52
Acq On : 21 Jun 2001 6:28 Operator: DDC
Sample : 46732.43 Inst : HP_15
Misc : Dilution: 1.00
IntFile : events2.e
Quant Time: Jun 21 9:31 2001 Quant Results File: XPCBF14.RES

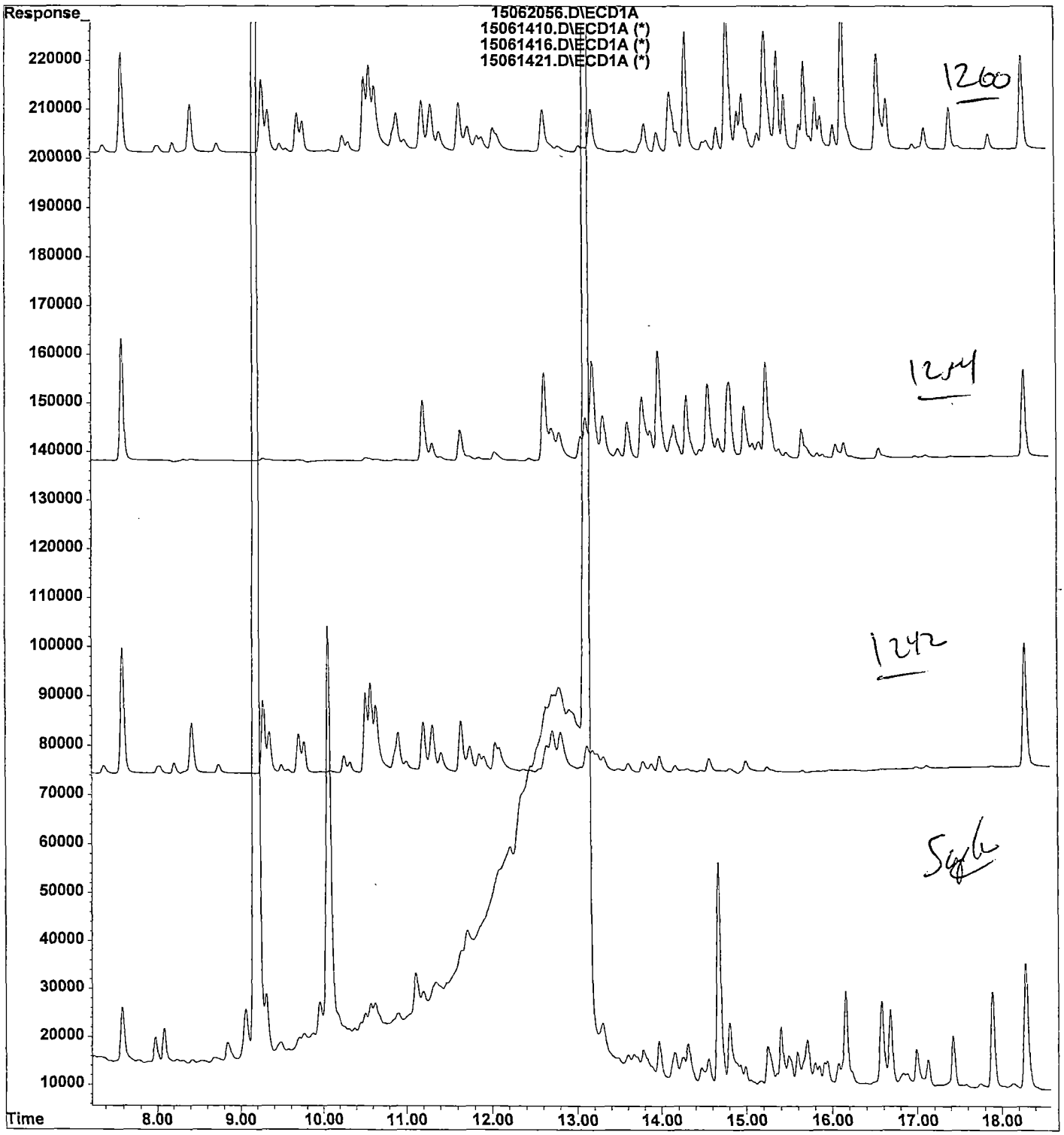
Method : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B



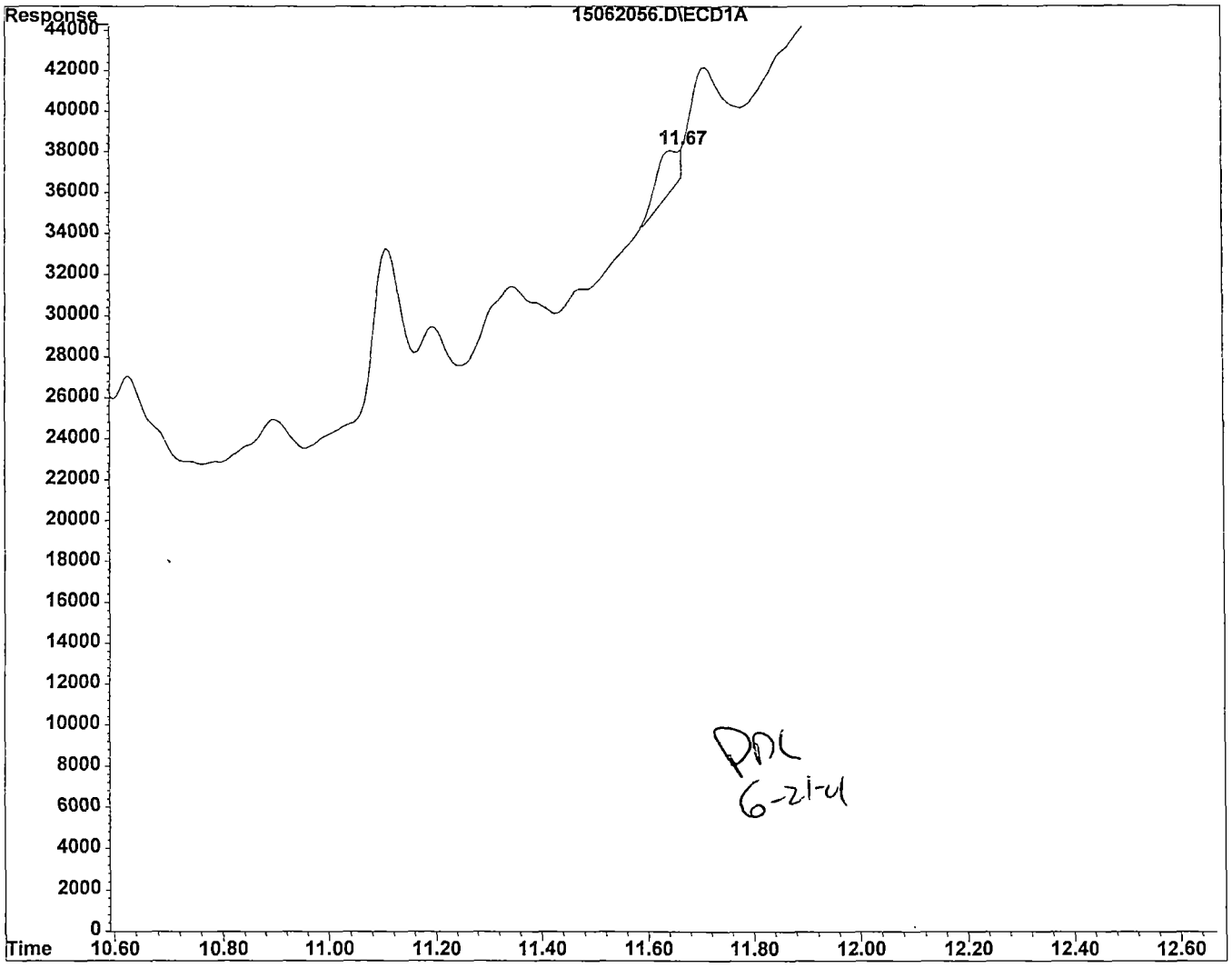


File : F:\HPCHEM\HP\15\DATA\06_20_01\15062056.D
Operator : DDC
Acquired : 21 Jun 2001 6:28 using AcqMethod OLM03.M
Instrument : HP_15
Sample Name: 46732.43
Misc Info :
Vial Number: 52



MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\15\DATA\06_20_01\15062056.D
Date Acquired: 21 Jun 2001 6:28
Inst: HP_15 Operator ID: DDC
Name: 46732.43 *E30Y8 *
Misc: *EPA*31G/5.0ML*63
Method: F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title: PCB/TOXAPHENE
Quant Time: Jun 21 9:31 2001 Quant Results File: XPCBF14.RES



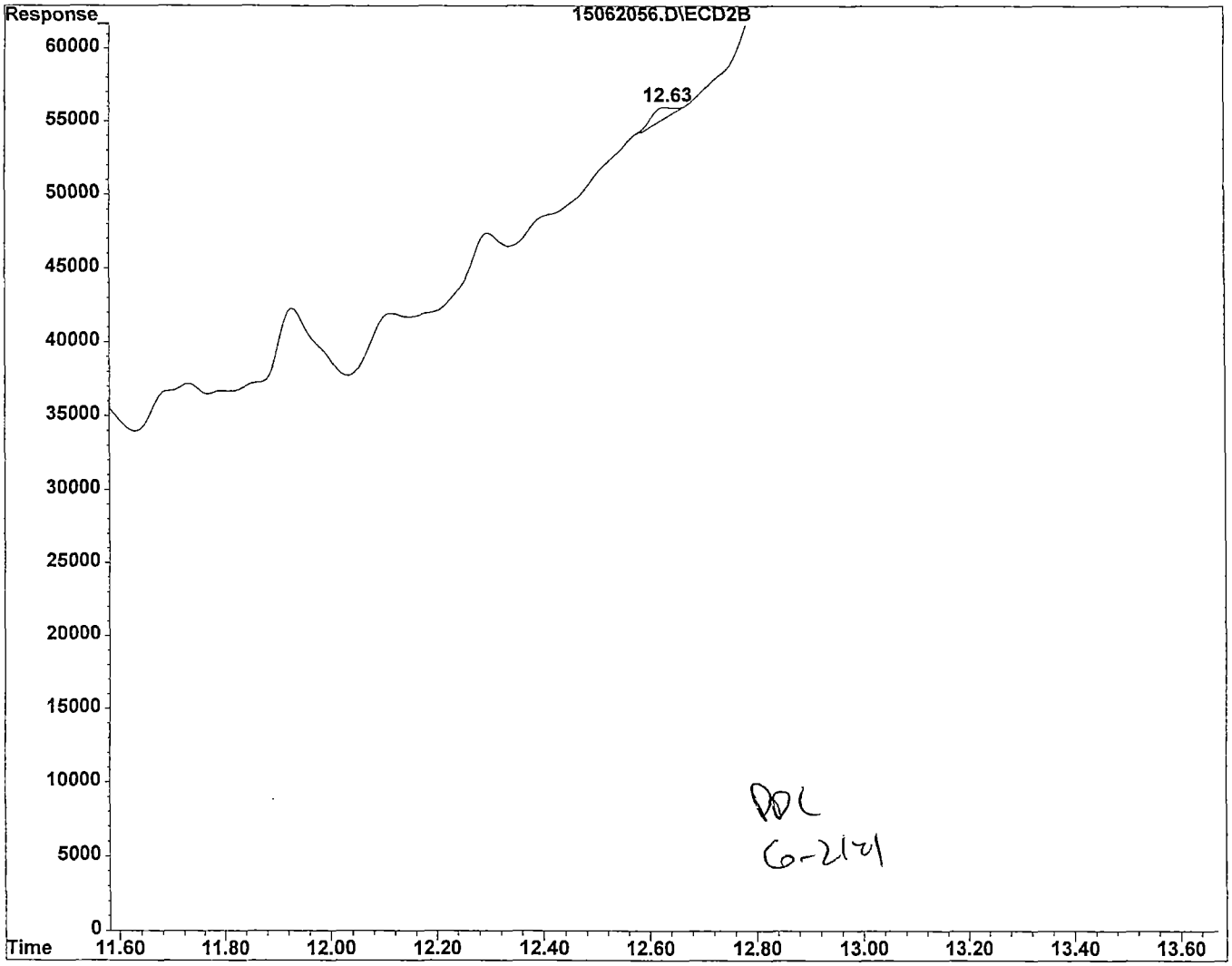
Aroclor-1242 {4} 11.67min area: 70432 m

Integration Time Range: 11.59 - 11.67

F:\HPCHEM\HP\15\DATA\06_20_01\15062056.D
Report generated: Thu Jun 21 09:37:04 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\15\DATA\06_20_01\15062056.D
Date Acquired: 21 Jun 2001 6:28
Inst: HP_15 Operator ID: DDC
Name: 46732.43 *E30Y8 *
Misc: *EPA*31G/5.0ML*63
Method: F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title: PCB/TOXAPHENE
Quant Time: Jun 21 9:31 2001 Quant Results File: XPCBF14.RES



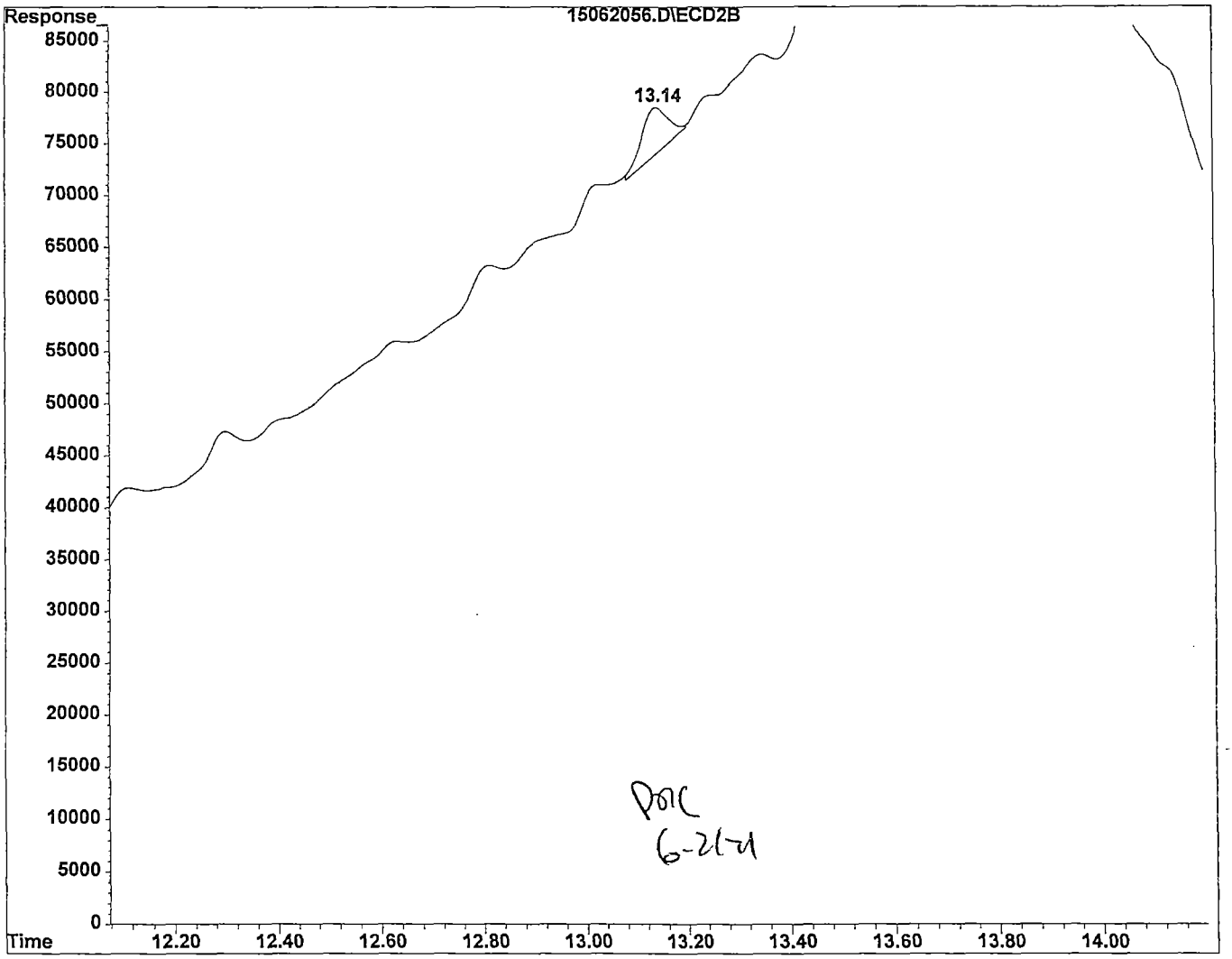
Aroclor-1242 {4} #2 12.63min area: 26928 m

Integration Time Range: 12.58 - 12.67

F:\HPCHEM\HP\15\DATA\06_20_01\15062056.D
Report generated: Thu Jun 21 09:37:05 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\15\DATA\06_20_01\15062056.D
Date Acquired: 21 Jun 2001 6:28
Inst: HP_15 Operator ID: DDC
Name: 46732.43 *E30Y8 *
Misc: *EPA*31G/5.0ML*63
Method: F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title: PCB/TOXAPHENE
Quant Time: Jun 21 9:31 2001 Quant Results File: XPCBF14.RES



Aroclor-1242 {5} #2 13.14min area: 179364 m

Integration Time Range: 13.08 - 13.20

F:\HPCHEM\HP\15\DATA\06_20_01\15062056.D
Report generated: Thu Jun 21 09:37:05 2001

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_20_01\15062056.D\ECD1A.CH Vial: 52
Signal #2 : F:\HPCHEM\HP\15\DATA\06_20_01\15062056.D\ECD2B.CH
Acq On : 21 Jun 2001 6:28 Operator: DDC
Sample : 46732.43 *E30Y8 * Inst : HP_15
Misc : *EPA*31G/5.0ML*63 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 21 9:31 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.58	7.35	387984	394331	13.5	14.8
	Spiked Amount 17.437			Recovery	=	77.42%	84.88%
22)	S DCB	18.29	18.69	941857	819708	31.7	30.2
	Spiked Amount 17.437			Recovery	=	181.80%	173.20%
	Target Compounds:						
7)	L4 Aroclor-1242	8.42	10.40	17783	172314	26.6	533.1 #
	L4 Aroclor-1242 {2}	9.70	0.00	37461	0	83.4	N.D. d #
	L4 Aroclor-1242 {3}	10.63	0.00	214914	0	184.6	N.D. d #
10)	L4 Aroclor-1242 {4}	11.67	12.63	70432	26928	106.9m	76.5m #
11)	L4 Aroclor-1242 {5}	0.00	13.14	0	179364	N.D. d	364.2m #
	Sum Aroclor-1242			340591	378606	401.6	973.8
	Average Aroclor-1242					100.392	324.596
12)	L6 Aroclor-1254	0.00	12.30	0	48881	N.D. d	117.9 #
14)	L6 Aroclor-1254 {3}	13.79	0.00	224221	0	189.5	N.D. d #
15)	L6 Aroclor-1254 {4}	14.31	14.92	292394	215363	275.6	253.7
16)	L6 Aroclor-1254 {5}	14.99	15.39	94222	161384	105.6	153.8 #
	Sum Aroclor-1254			610838	425627	570.6	525.4
	Average Aroclor-1254					190.211	175.123
17)	L7 Aroclor-1260	14.31	0.00	292394	0	156.7	N.D. d #
18)	L7 Aroclor-1260 {2}	14.81	0.00	570970	0	227.6	N.D. d #
19)	L7 Aroclor-1260 {3}	15.25	14.92	299314	215363	125.1	110.5
20)	L7 Aroclor-1260 {4}	0.00	16.09	0	243695	N.D. d	217.8 #
21)	L7 Aroclor-1260 {5}	16.16	16.32	684383	558773	251.8	206.0
	Sum Aroclor-1260			1847061	1017831	663.6	465.8
	Average Aroclor-1260					190.291	178.109

DDC 6-22-01

DDC 6-22-01

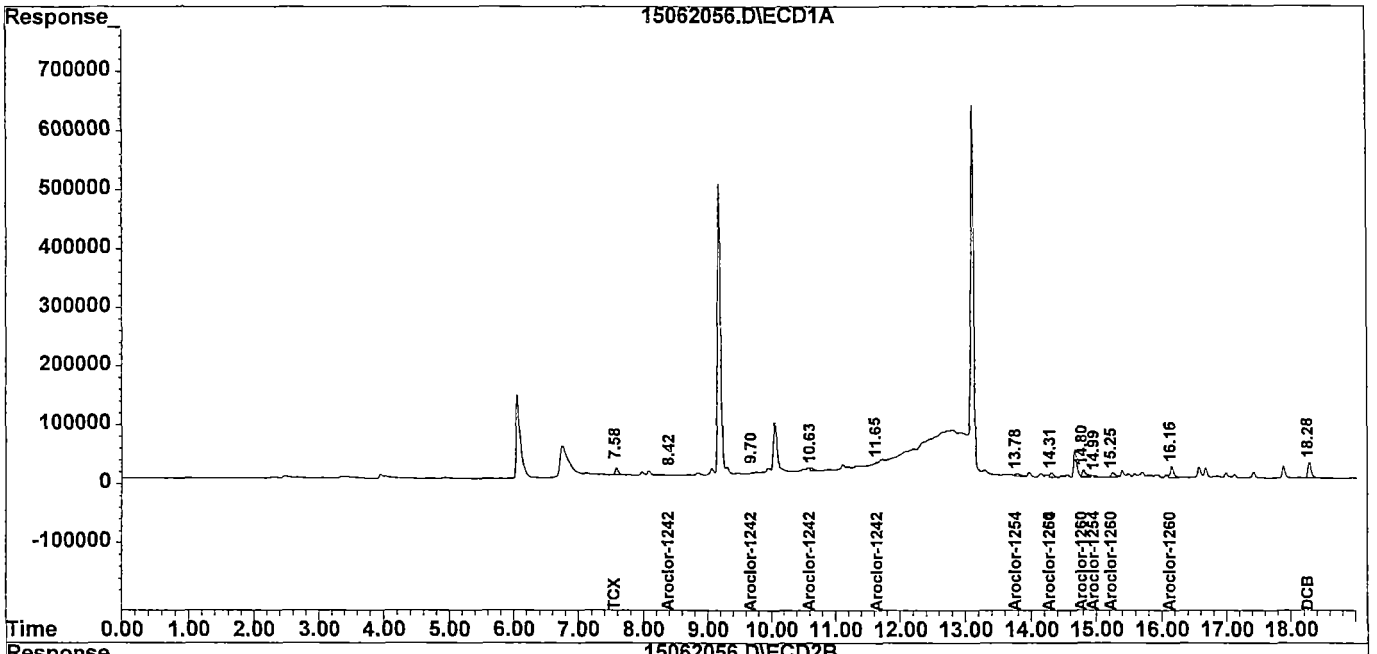
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

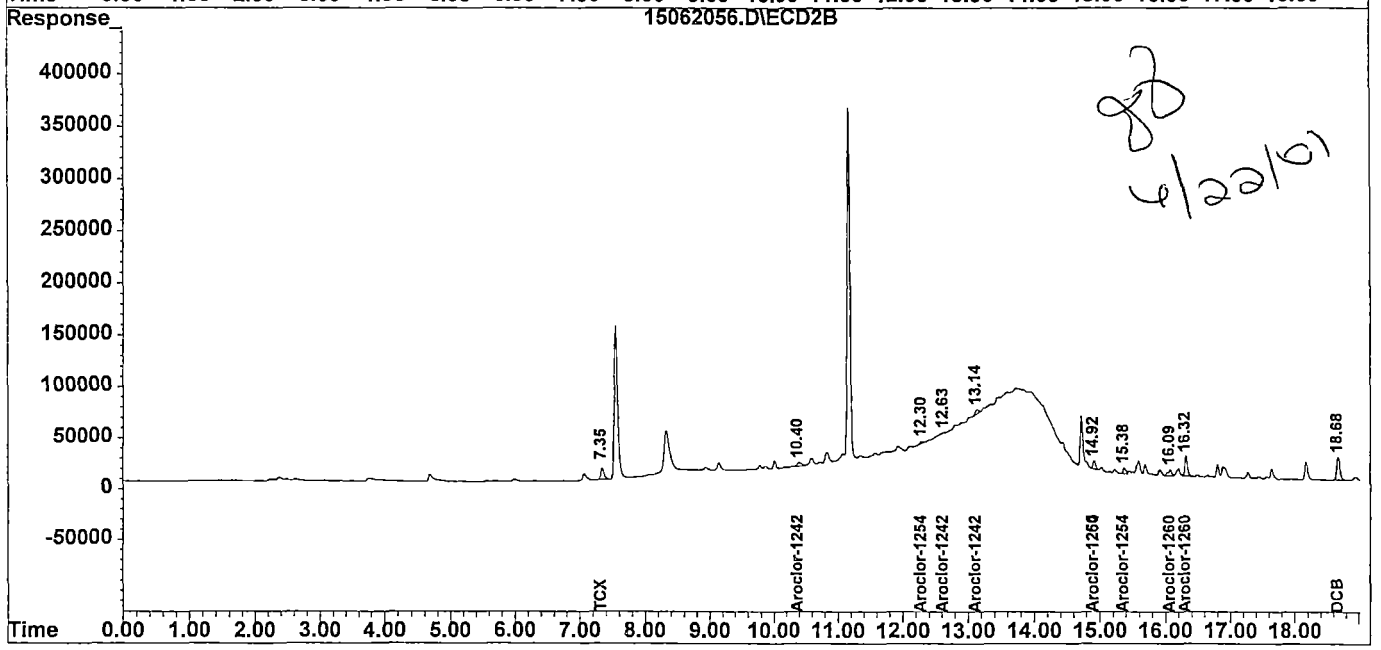
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_20_01\15062056.D\ECD1A.CH Vial: 52
Signal #2 : F:\HPCHEM\HP\15\DATA\06_20_01\15062056.D\ECD2B.CH
Acq On : 21 Jun 2001 6:28 Operator: DDC
Sample : 46732.43 *E30Y8 * Inst : HP_15
Misc : *EPA*31G/5.0ML*63 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 21 9:31 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/22/01

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E30Y9

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30W6

Matrix: (soil/water) SOIL Lab Sample ID: 46732.44

Sample wt/vol: 30.1 (g/mL) G Lab File ID:_____

% Moisture: 66 decanted: (Y/N) __ Date Received: 06/09/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:06/09/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/21/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.1 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	97	U
11104-28-2	Aroclor-1221	97	U
11141-16-5	Aroclor-1232	97	U
53469-21-9	Aroclor-1242	97	U
12672-29-6	Aroclor-1248	97	U
11097-69-1	Aroclor-1254	97	U
11096-82-5	Aroclor-1260	97	U
	Surrogate amount spiked	19.54	

FORM I PCB

Quantitation Report

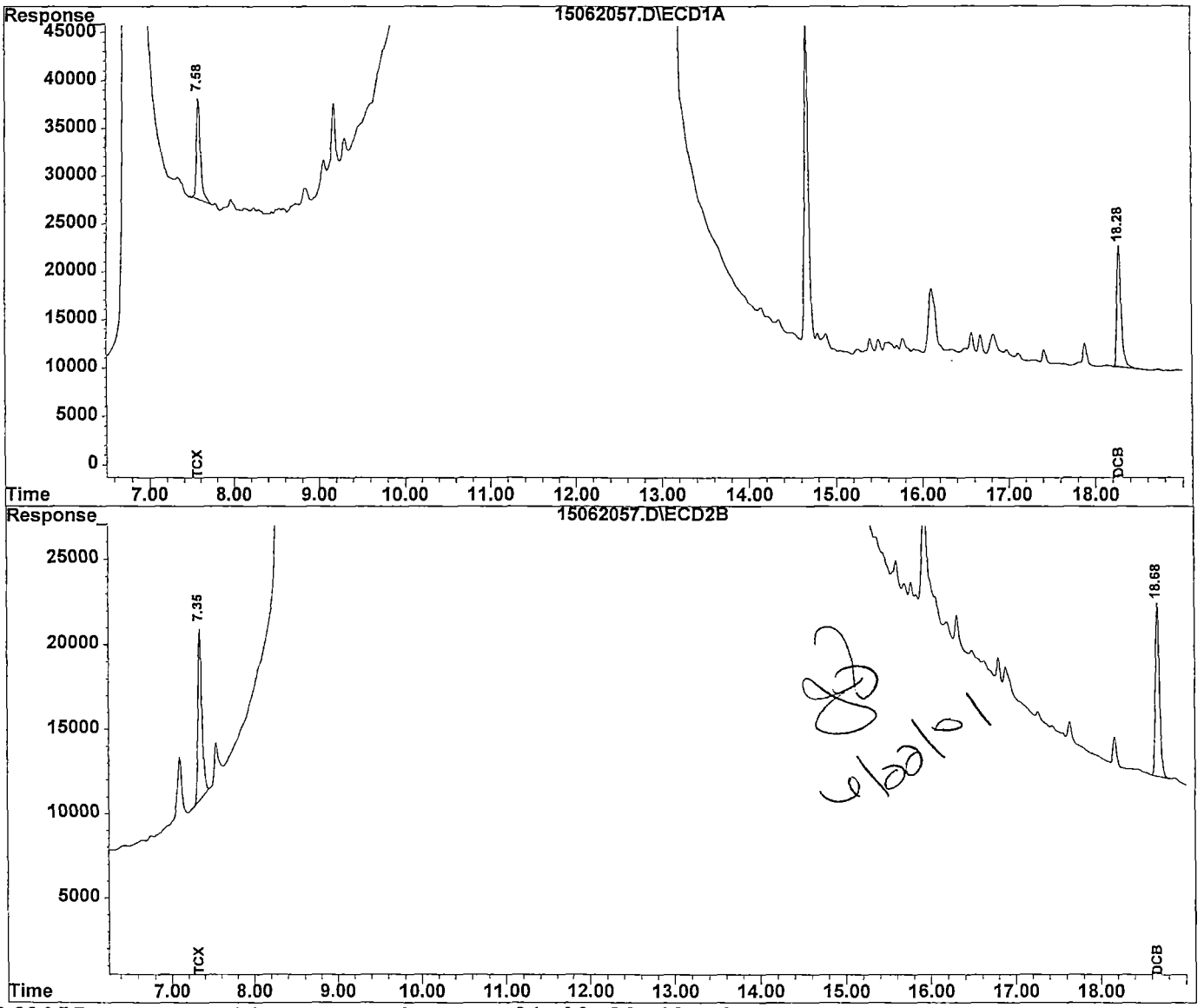
```
Data File : F:\HPCHEM\HP\15\DATA\06_20_01\15062057.D\ECD1A.CH Vial: 53
Acq On    : 21 Jun 2001   6:51                        Operator: DDC
Sample    : 46732.44  *E30Y9  *                       Inst    : HP_15
Misc      : *EPA*30.1G/5.0ML*66                       Dilution: 1.00
IntFile   : events.e

Data File : F:\HPCHEM\HP\15\DATA\06_20_01\15062057.D\ECD2B.CH Vial: 53
Acq On    : 21 Jun 2001   6:51                        Operator: DDC
Sample    : 46732.44                                  Inst    : HP_15
Misc      :                                           Dilution: 1.00
IntFile   : events2.e
Quant Time: Jun 21  9:32 2001  Quant Results File: XPCBF14.RES

Method       : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path   : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update  : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj.     : 0.5uL
Signal #1 Phase : DB-17MS          Signal #2 Phase: DB-XLB
Signal #1 Info  : .32 mm           Signal #2 Info : .32 mm
Signal #1 Inst  : HP_15A           Signal #2 Inst : HP_15B
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.58	7.35	365402	349763	14.2	14.7
	Spiked Amount 19.543			Recovery	=	72.66%	75.22%
	S DCB	18.28	18.68	455124	346906	17.2	14.3
	Spiked Amount 19.543			Recovery	=	88.01%	73.17%
	Target Compounds:						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

Chromatographic Report

```
Data File : F:\HPCHEM\HP\15\DATA\06_20_01\15062057.D\ECD1A.CH Vial: 53
Acq On    : 21 Jun 2001   6:51                        Operator: DDC
Sample    : 46732.44  *E30Y9  *                       Inst    : HP_15
Misc      : *EPA*30.1G/5.0ML*66                       Dilution: 1.00
IntFile   : events.e

Data File : F:\HPCHEM\HP\15\DATA\06_20_01\15062057.D\ECD2B.CH Vial: 53
Acq On    : 21 Jun 2001   6:51                        Operator: DDC
Sample    : 46732.44                                  Inst    : HP_15
Misc      :                                           Dilution: 1.00
IntFile   : events2.e
Quant Time: Jun 21  9:32 2001  Quant Results File: XPCBF14.RES

Method       : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path   : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update  : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj.     : 0.5uL
Signal #1 Phase : DB-17MS          Signal #2 Phase: DB-XLB
Signal #1 Info  : .32 mm           Signal #2 Info : .32 mm
Signal #1 Inst  : HP_15A           Signal #2 Inst : HP_15B
```



6/22/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_20_01\15062057.D\ECD1A.CH Vial: 53
Signal #2 : F:\HPCHEM\HP\15\DATA\06_20_01\15062057.D\ECD2B.CH
Acq On : 21 Jun 2001 6:51 Operator: DDC
Sample : 46732.44 *E30Y9 * Inst : HP_15
Misc : *EPA*30.1G/5.0ML*66 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 21 9:32 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.58	7.35	365402	349763	14.2	14.7
	Spiked Amount 19.543			Recovery	=	72.66%	75.22%
22)	S DCB	18.28	18.68	455124	346906	17.2	14.3
	Spiked Amount 19.543			Recovery	=	88.01%	73.17%

Target Compounds:

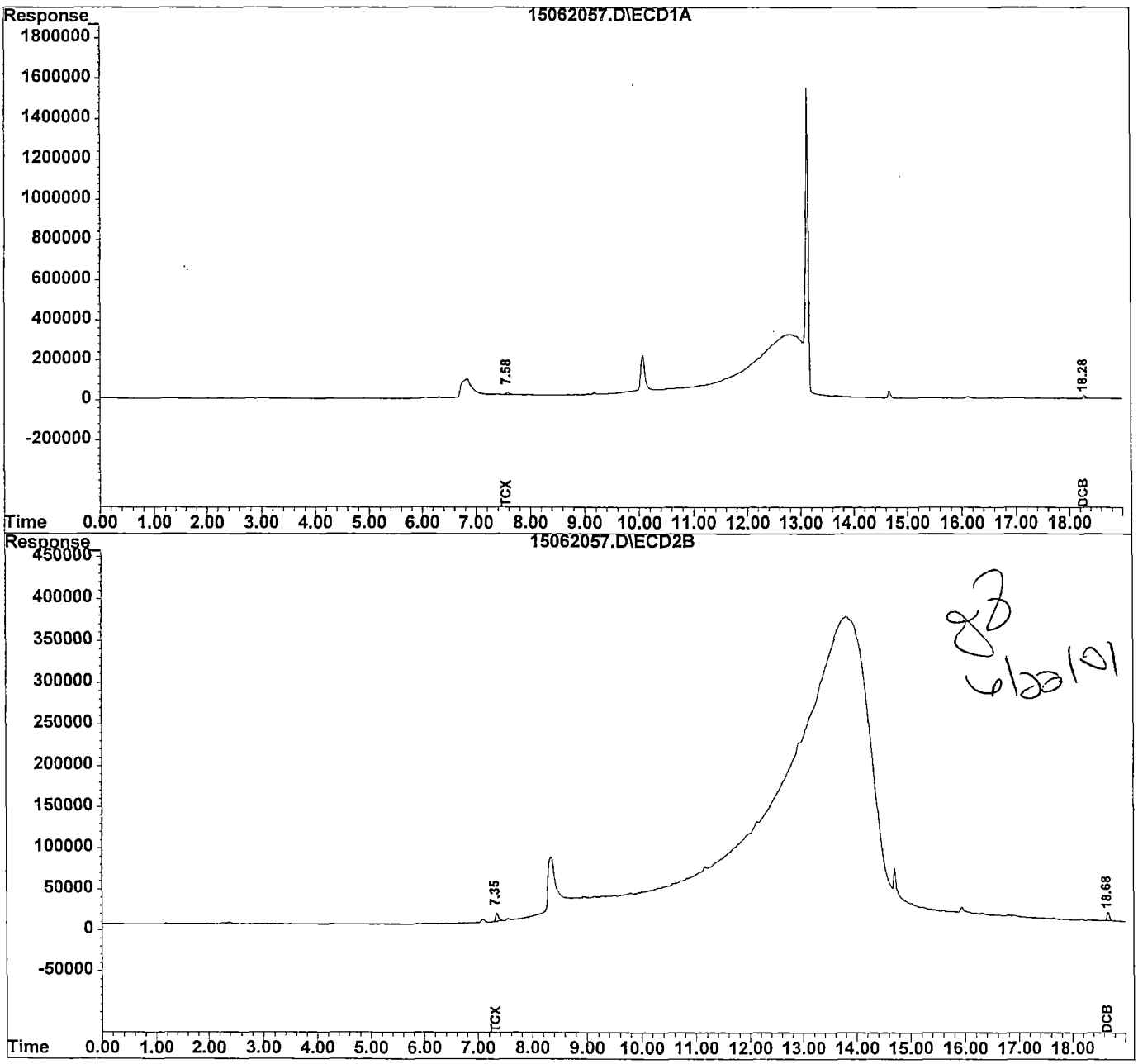
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_20_01\15062057.D\ECD1A.CH Vial: 53
Signal #2 : F:\HPCHEM\HP\15\DATA\06_20_01\15062057.D\ECD2B.CH
Acq On : 21 Jun 2001 6:51 Operator: DDC
Sample : 46732.44 *E30Y9 * Inst : HP_15
Misc : *EPA*30.1G/5.0ML*66 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 21 9:32 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B



1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E30Z0

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30W6

Matrix: (soil/water) SOIL Lab Sample ID: 46732.45

Sample wt/vol: 30.3 (g/mL) G Lab File ID:_____

% Moisture: 64 decanted: (Y/N) __ Date Received: 06/09/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:06/09/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/21/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.2 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	91	U
11104-28-2	Aroclor-1221	91	U
11141-16-5	Aroclor-1232	91	U
53469-21-9	Aroclor-1242	170	~~P~~ PJ
12672-29-6	Aroclor-1248	91	U
11097-69-1	Aroclor-1254	180	J
11096-82-5	Aroclor-1260	170	J
Surrogate amount spiked		18.33	

TBS 7/10/01

FORM I PCB

Quantitation Report

Data File : F:\HPCHEM\HP\15\DATA\06_20_01\15062058.D\ECD1A.CH Vial: 54
Acq On : 21 Jun 2001 7:14 Operator: DDC
Sample : 46732.45 *E30Z0 * Inst : HP_15
Misc : *EPA*30.3G/5.0ML*64 Dilution: 1.00
IntFile : events.e

Data File : F:\HPCHEM\HP\15\DATA\06_20_01\15062058.D\ECD2B.CH Vial: 54
Acq On : 21 Jun 2001 7:14 Operator: DDC
Sample : 46732.45 Inst : HP_15
Misc : Dilution: 1.00
IntFile : events2.e
Quant Time: Jun 21 9:36 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.58	7.35	442227	437388	16.2	17.3
	Spiked Amount 18.335			Recovery	=	88.35%	94.35%
	S DCB	18.29	18.69	968823	907815	34.3	35.1
	Spiked Amount 18.335			Recovery	=	187.07%	191.44%
	Target Compounds:						
7)	L4 Aroclor-1242	0.00	10.40	0	165096	N.D. d	537.1 #
8)	L4 Aroclor-1242 {2}	9.70	0.00	38813	0	90.9	N.D. d #
9)	L4 Aroclor-1242 {3}	10.63	0.00	263579	0	238.1 DDC 6-21-01	N.D. d # DDC 6-21-01
10)	L4 Aroclor-1242 {4}	11.64	12.63	110268	32932	176.0m	98.3m #
11)	L4 Aroclor-1242 {5}	0.00	13.14	0	183588	N.D. d	392.0 #
	Sum Aroclor-1242			412659	381616	504.9	1027.4
	Average Aroclor-1242					168.310	342.475
12)	L6 Aroclor-1254	0.00	12.30	0	80950	N.D. d	205.2 #
13)	L6 Aroclor-1254 {2}	13.30	13.02	100254	69040	123.9	133.2
14)	L6 Aroclor-1254 {3}	13.79	0.00	209095	0	185.8	N.D. d #
15)	L6 Aroclor-1254 {4}	14.31	14.92	288775	217044	286.2	268.9
16)	L6 Aroclor-1254 {5}	14.99	15.39	93848	145793	110.6	146.1 #
	Sum Aroclor-1254			691972	512827	706.4	753.4
	Average Aroclor-1254					176.606	188.349
17)	L7 Aroclor-1260	14.31	0.00	288775	0	162.8	N.D. d #
19)	L7 Aroclor-1260 {3}	15.26	14.92	277595	217044	122.0	117.1
20)	L7 Aroclor-1260 {4}	0.00	16.09	0	183352	N.D. d	172.3 #
21)	L7 Aroclor-1260 {5}	16.16	16.32	572743	544600	221.5	211.1
	Sum Aroclor-1260			1139113	944997	464.1	458.9
	Average Aroclor-1260					168.764	166.851

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

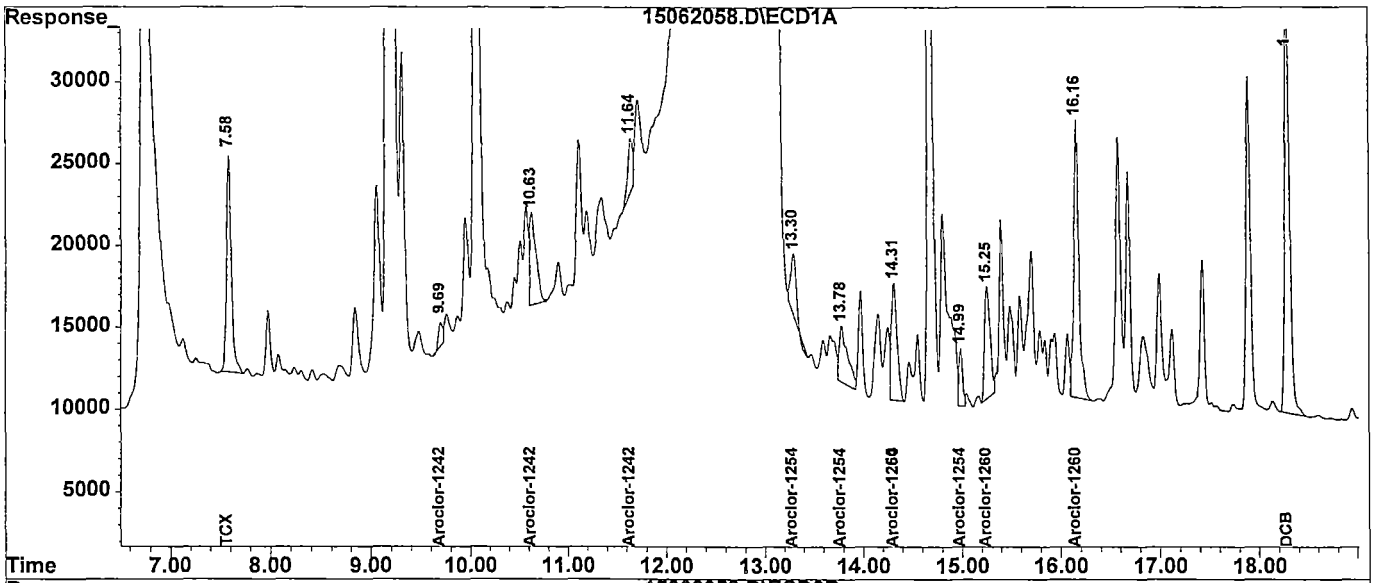
Chromatographic Report

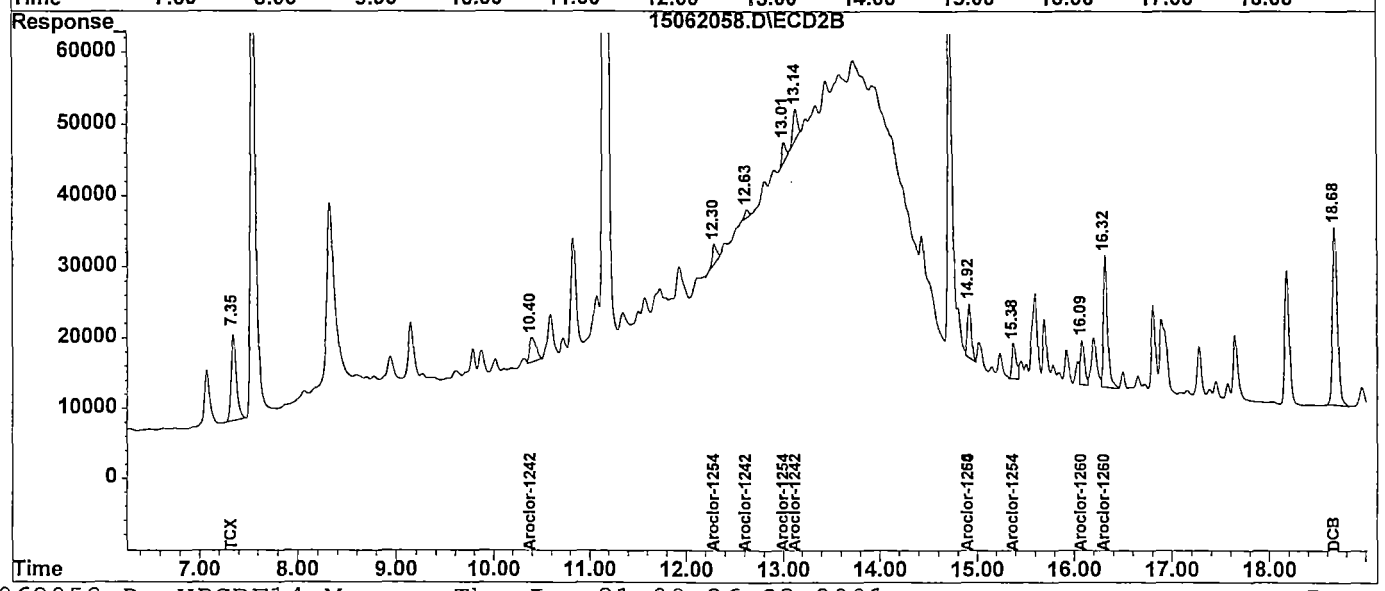
Data File : F:\HPCHEM\HP\15\DATA\06_20_01\15062058.D\ECD1A.CH Vial: 54
Acq On : 21 Jun 2001 7:14 Operator: DDC
Sample : 46732.45 *E30Z0 * Inst : HP_15
Misc : *EPA*30.3G/5.0ML*64 Dilution: 1.00
IntFile : events.e

Data File : F:\HPCHEM\HP\15\DATA\06_20_01\15062058.D\ECD2B.CH Vial: 54
Acq On : 21 Jun 2001 7:14 Operator: DDC
Sample : 46732.45 Inst : HP_15
Misc : Dilution: 1.00
IntFile : events2.e
Quant Time: Jun 21 9:36 2001 Quant Results File: XPCBF14.RES

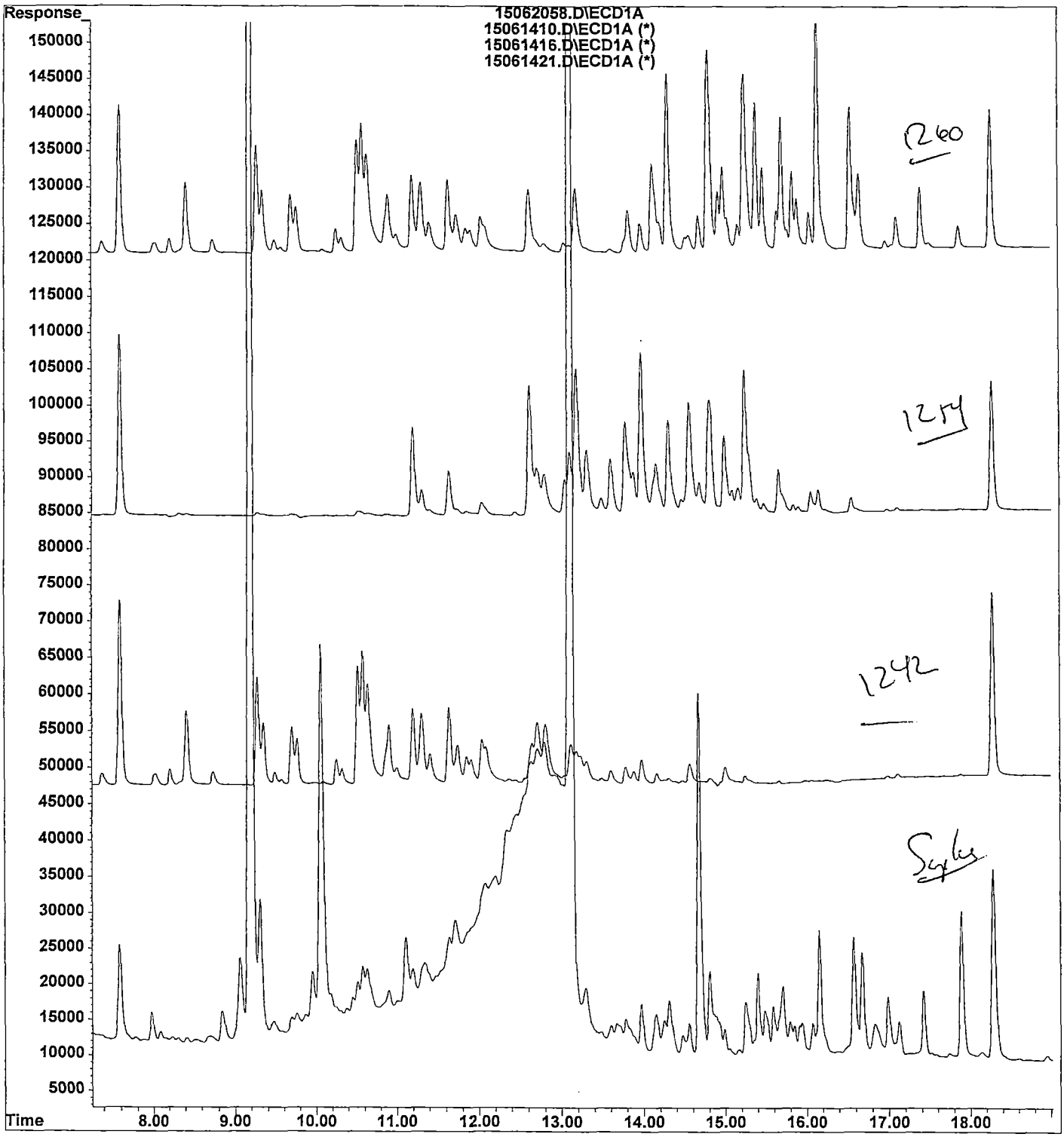
Method : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B



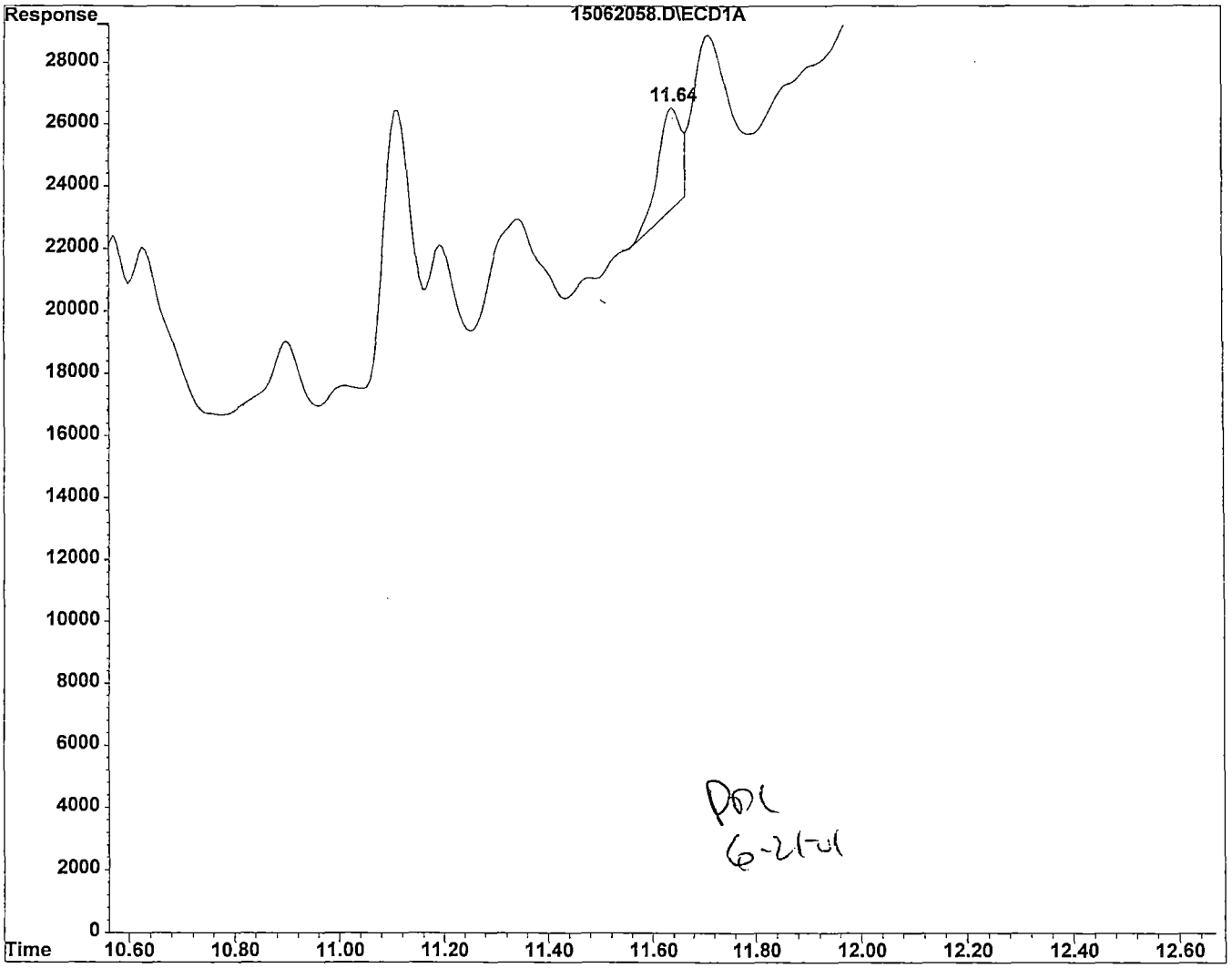


File : F:\HPCHEM\HP\15\DATA\06_20_01\15062058.D
Operator : DDC
Acquired : 21 Jun 2001 7:14 using AcqMethod OLM03.M
Instrument : HP_15
Sample Name: 46732.45
Misc Info :
Vial Number: 54



MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\15\DATA\06_20_01\15062058.D
Date Acquired: 21 Jun 2001 7:14
Inst: HP_15 Operator ID: DDC
Name: 46732.45 *E30Z0 *
Misc: *EPA*30.3G/5.0ML*64
Method: F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title: PCB/TOXAPHENE
Quant Time: Jun 21 9:36 2001 Quant Results File: XPCBF14.RES



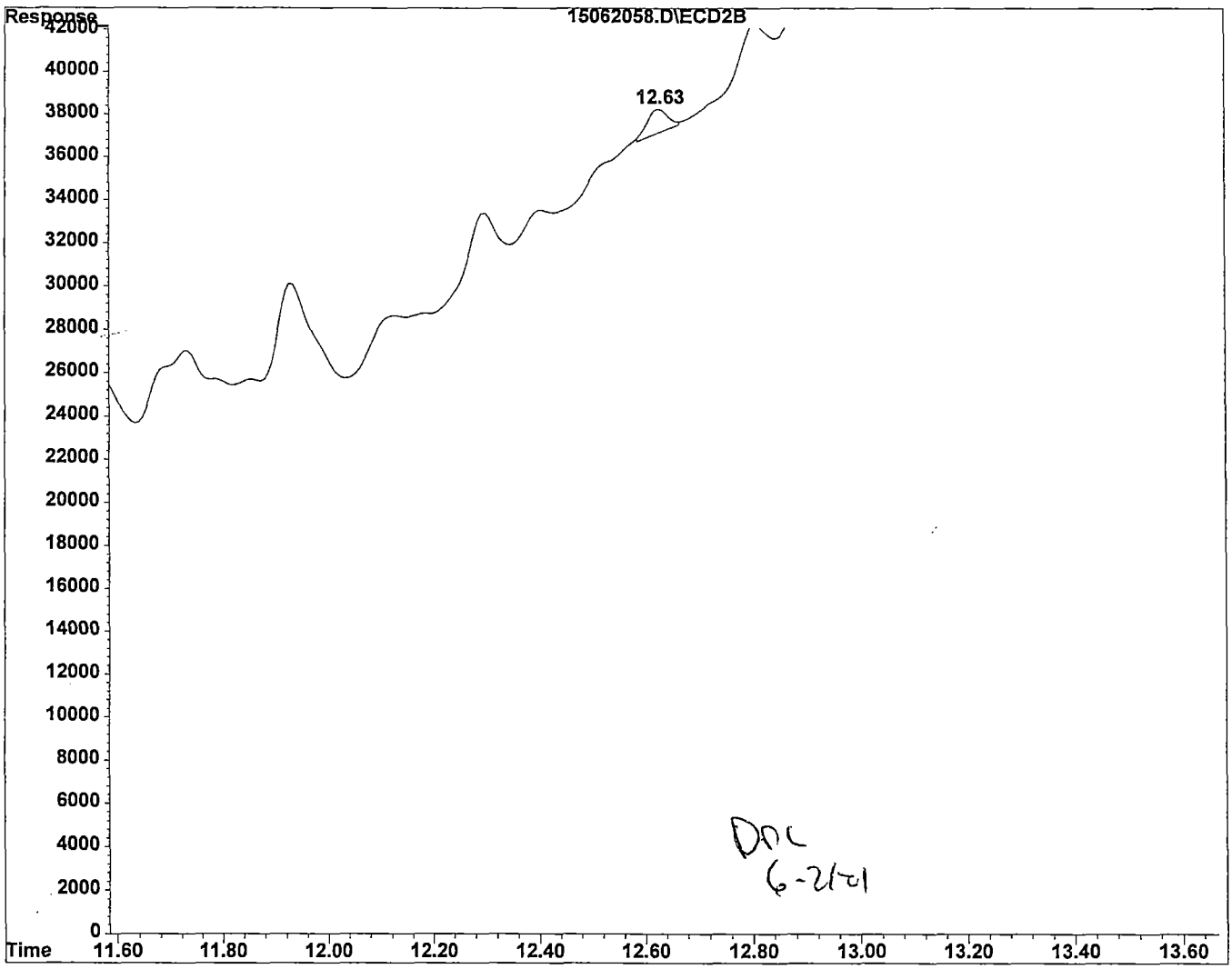
Aroclor-1242 {4} 11.64min area: 110268 m

Integration Time Range: 11.56 - 11.67

F:\HPCHEM\HP\15\DATA\06_20_01\15062058.D
Report generated: Thu Jun 21 09:37:08 2001

MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\15\DATA\06_20_01\15062058.D
Date Acquired: 21 Jun 2001 7:14
Inst: HP_15 Operator ID: DDC
Name: 46732.45 *E30Z0 *
Misc: *EPA*30.3G/5.0ML*64
Method: F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title: PCB/TOXAPHENE
Quant Time: Jun 21 9:36 2001 Quant Results File: XPCBF14.RES



Aroclor-1242 {4} #2 12.63min area: 32932 m

Integration Time Range: 12.59 - 12.66

F:\HPCHEM\HP\15\DATA\06_20_01\15062058.D
Report generated: Thu Jun 21 09:37:09 2001

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_20_01\15062058.D\ECD1A.CH Vial: 54
Signal #2 : F:\HPCHEM\HP\15\DATA\06_20_01\15062058.D\ECD2B.CH
Acq On : 21 Jun 2001 7:14 Operator: DDC
Sample : 46732.45 *E30Z0 * Inst : HP_15
Misc : *EPA*30.3G/5.0ML*64 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 21 9:36 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.58	7.35	442227	437388	16.2	17.3
	Spiked Amount 18.335			Recovery	=	88.35%	94.35%
22)	S DCB	18.29	18.69	968823	907815	34.3	35.1
	Spiked Amount 18.335			Recovery	=	187.07%	191.44%
	Target Compounds:						
7)	L4 Aroclor-1242	0.00	10.40	0	165096	N.D. d	537.1 #
	L4 Aroclor-1242 {2}	9.70	0.00	38813	0	90.9 DPC 6-22-01	N.D. d #
	L4 Aroclor-1242 {3}	10.63	0.00	263579	0	238.1	N.D. d # DPC 6-22-01
10)	L4 Aroclor-1242 {4}	11.64	12.63	110268	32932	176.0m	98.3m #
11)	L4 Aroclor-1242 {5}	0.00	13.14	0	183588	N.D. d	392.0 #
	Sum Aroclor-1242			412659	381616	504.9	1027.4
	Average Aroclor-1242					168.310	342.475
12)	L6 Aroclor-1254	0.00	12.30	0	80950	N.D. d	205.2 #
13)	L6 Aroclor-1254 {2}	13.30	13.02	100254	69040	123.9	133.2
14)	L6 Aroclor-1254 {3}	13.79	0.00	209095	0	185.8	N.D. d #
15)	L6 Aroclor-1254 {4}	14.31	14.92	288775	217044	286.2	268.9
16)	L6 Aroclor-1254 {5}	14.99	15.39	93848	145793	110.6	146.1 #
	Sum Aroclor-1254			691972	512827	706.4	753.4
	Average Aroclor-1254					176.606	188.349
17)	L7 Aroclor-1260	14.31	0.00	288775	0	162.8	N.D. d #
19)	L7 Aroclor-1260 {3}	15.26	14.92	277595	217044	122.0	117.1
20)	L7 Aroclor-1260 {4}	0.00	16.09	0	183352	N.D. d	172.3 #
21)	L7 Aroclor-1260 {5}	16.16	16.32	572743	544600	221.5	211.1
	Sum Aroclor-1260			1139113	944997	464.1	458.9
	Average Aroclor-1260					168.764	166.851

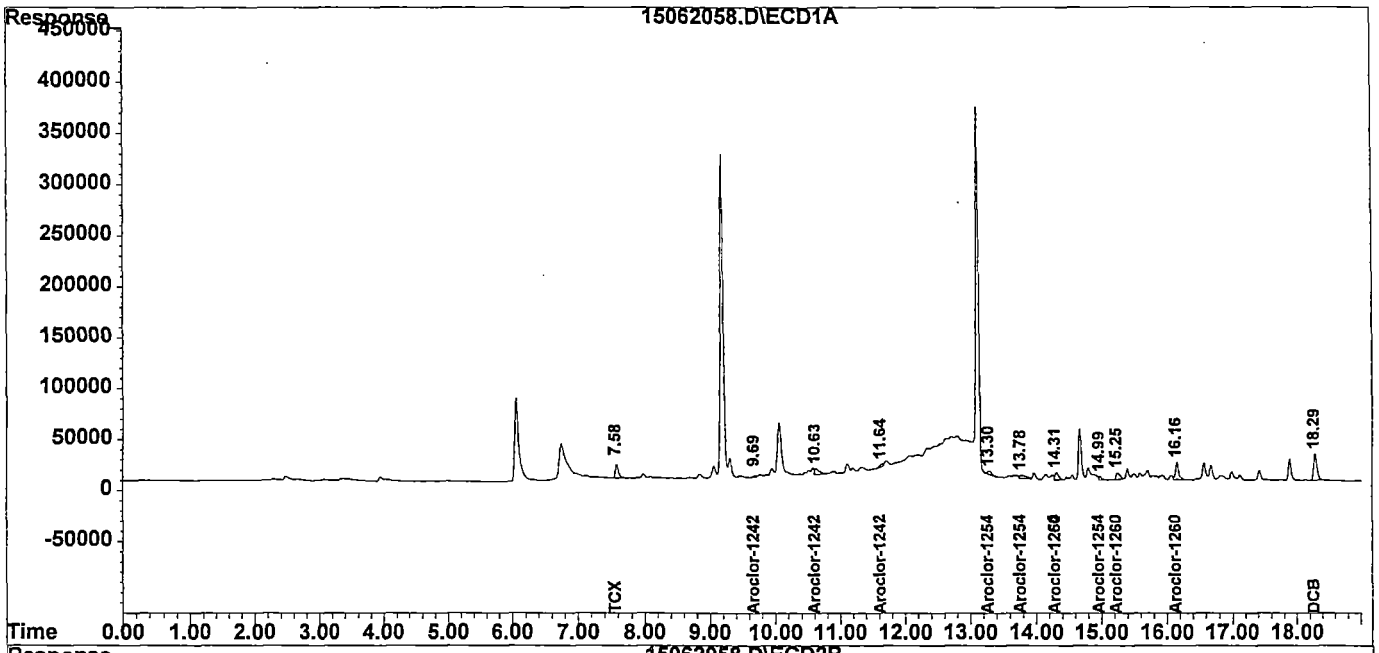
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

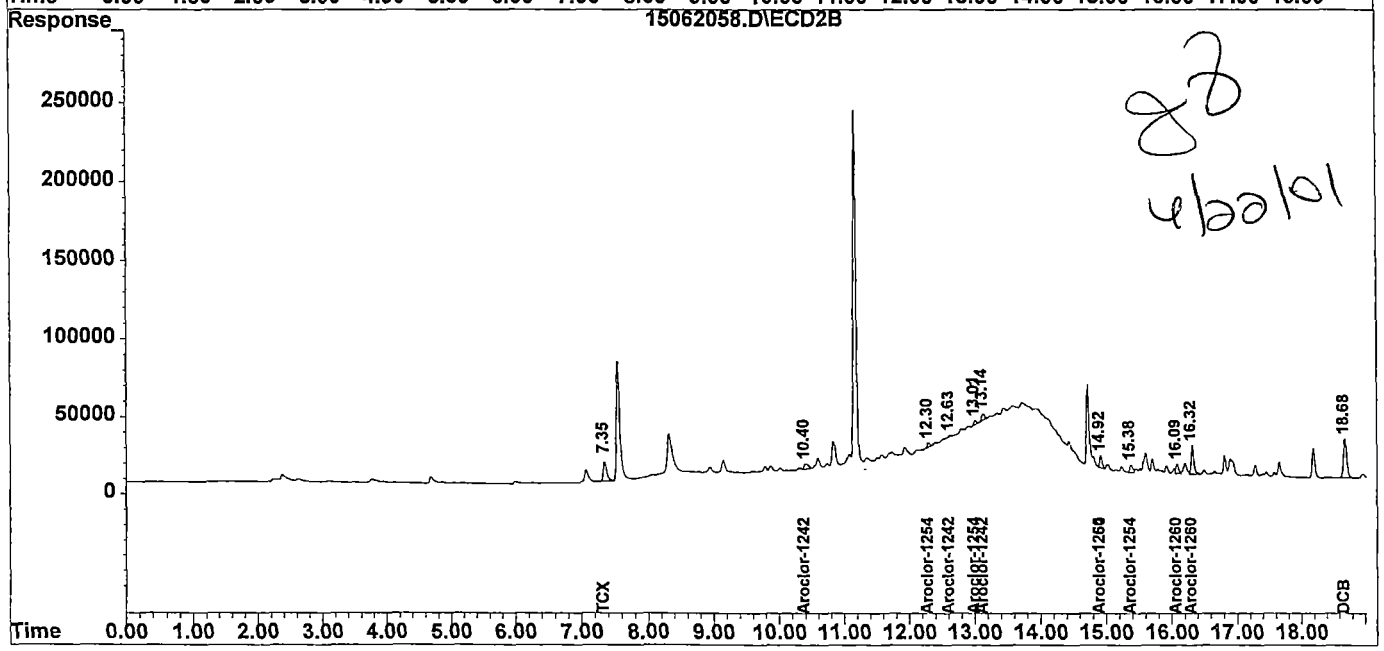
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_20_01\15062058.D\ECD1A.CH Vial: 54
Signal #2 : F:\HPCHEM\HP\15\DATA\06_20_01\15062058.D\ECD2B.CH
Acq On : 21 Jun 2001 7:14 Operator: DDC
Sample : 46732.45 *E30Z0 * Inst : HP_15
Misc : *EPA*30.3G/5.0ML*64 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 21 9:36 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





8D
4/22/01

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E30Z1

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30W6

Matrix: (soil/water) SOIL Lab Sample ID: 46732.46

Sample wt/vol: 30.3 (g/mL) G Lab File ID:_____

% Moisture: 13 decanted: (Y/N) __ Date Received: 06/09/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:06/09/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/21/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	38	U
11104-28-2	Aroclor-1221	38	U
11141-16-5	Aroclor-1232	38	U
53469-21-9	Aroclor-1242	190	
12672-29-6	Aroclor-1248	38	U
11097-69-1	Aroclor-1254	80	
11096-82-5	Aroclor-1260	46	
	Surrogate amount spiked	7.59	

FORM I PCB

Quantitation Report

Data File : F:\HPCHEM\HP\15\DATA\06_20_01\15062067.D\ECD1A.CH Vial: 63
Acq On : 21 Jun 2001 10:42 Operator: DDC
Sample : 46732.46 *E30Z1 * Inst : HP_15
Misc : *EPA*30.3G/5.0ML*13 Dilution: 1.00
IntFile : events.e

Data File : F:\HPCHEM\HP\15\DATA\06_20_01\15062067.D\ECD2B.CH Vial: 63
Acq On : 21 Jun 2001 10:42 Operator: DDC
Sample : 46732.46 Inst : HP_15
Misc : Dilution: 1.00
IntFile : events2.e
Quant Time: Jun 21 11:21 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

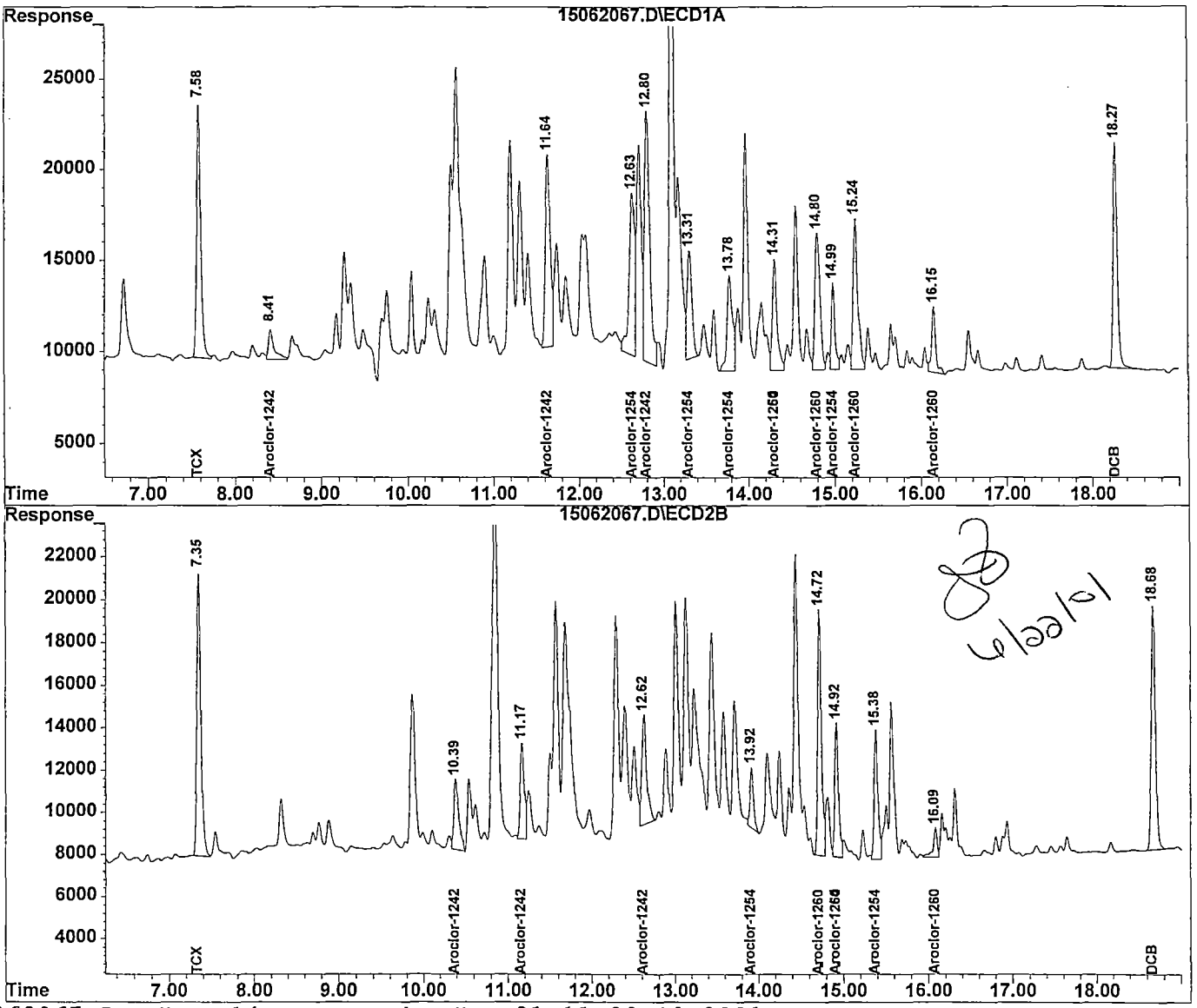
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	7.58	7.35	461517	445479	6.980	7.293	
	Spiked Amount 7.587			Recovery	=	92.00%	96.13%	
	S DCB	18.28	18.68	427843	393533	6.263	6.301	
	Spiked Amount 7.587			Recovery	=	82.55%	83.05%	
	Target Compounds:							
7)	L4 Aroclor-1242	8.41	10.39	79481	137455	51.8	185.0	#
8)	L4 Aroclor-1242 {2}	0.00	11.17	0	151095	N.D. d	119.7	#
10)	L4 Aroclor-1242 {4}	11.64	12.63	407166	211789	268.8	261.7	
11)	L4 Aroclor-1242 {5}	12.81	0.00	631354	0	300.7	N.D. d	#
	Sum Aroclor-1242			1118001	500340	621.3	566.4	
	Average Aroclor-1242					207.108	188.802	
12)	L6 Aroclor-1254	12.63	0.00	387394	0	126.6	N.D. d	#
13)	L6 Aroclor-1254 {2}	13.31	0.00	246914	0	126.2	N.D. d	#
14)	L6 Aroclor-1254 {3}	13.78	13.92	230064	83690	84.6	61.2	#
15)	L6 Aroclor-1254 {4}	14.31	14.92	234207	195548	96.0	100.2	
16)	L6 Aroclor-1254 {5}	14.99	15.39	140668	191737	68.6	79.5	
	Sum Aroclor-1254			1239247	470975	502.1	241.0	
	Average Aroclor-1254					100.412	80.323	
17)	L7 Aroclor-1260	14.31	0.00	234207	0	54.6	N.D. d	#
18)	L7 Aroclor-1260 {2}	14.80	14.72	311849	350887	54.1	92.7	#
19)	L7 Aroclor-1260 {3}	15.25	14.92	311490	195548	56.6	43.6	
20)	L7 Aroclor-1260 {4}	0.00	16.09	0	45598	N.D. d	17.7	#
21)	L7 Aroclor-1260 {5}	16.16	0.00	117871	0	18.9	N.D. d	#
	Sum Aroclor-1260			975418	592032	69.9	58.4	
	Average Aroclor-1260					46.054	51.354	

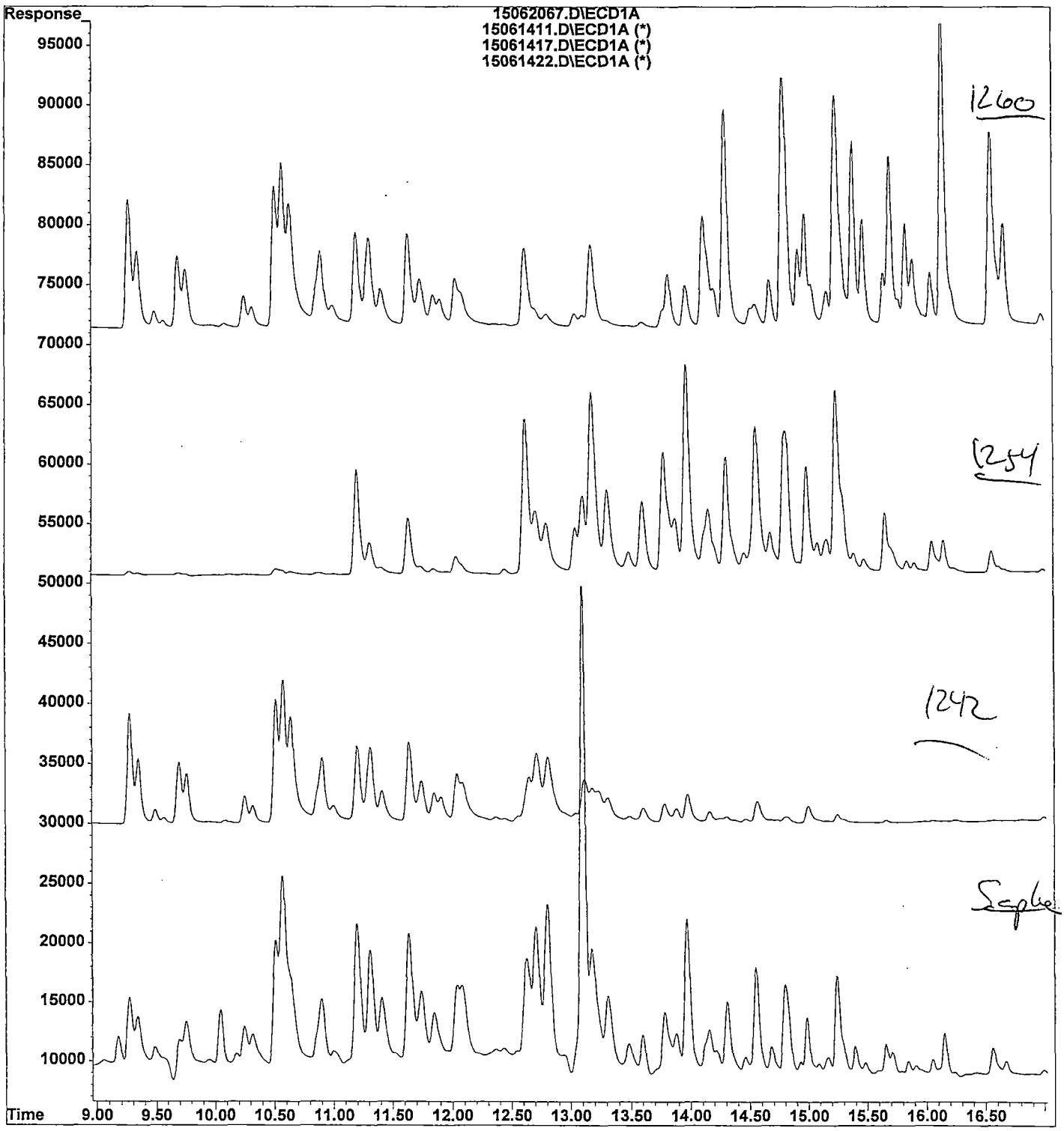
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

Chromatographic Report

```
Data File : F:\HPCHEM\HP\15\DATA\06_20_01\15062067.D\ECD1A.CH Vial: 63
Acq On    : 21 Jun 2001  10:42                        Operator: DDC
Sample    : 46732.46  *E30Z1  *                       Inst    : HP_15
Misc      : *EPA*30.3G/5.0ML*13                       Dilution: 1.00
IntFile   : events.e

Data File : F:\HPCHEM\HP\15\DATA\06_20_01\15062067.D\ECD2B.CH Vial: 63
Acq On    : 21 Jun 2001  10:42                        Operator: DDC
Sample    : 46732.46                                  Inst    : HP_15
Misc      :                                           Dilution: 1.00
IntFile   : events2.e
Quant Time: Jun 21 11:21 2001  Quant Results File: XPCBF14.RES

Method        : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path    : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update   : Thu Jun 07 08:46:05 2001
Response via  : Multiple Level Calibration

Volume Inj.      : 0.5uL
Signal #1 Phase  : DB-17MS          Signal #2 Phase: DB-XLB
Signal #1 Info   : .32 mm           Signal #2 Info : .32 mm
Signal #1 Inst   : HP_15A           Signal #2 Inst : HP_15B
```



File : F:\HPCHEM\HP\15\DATA\06_20_01\15062067.D
Operator : DDC
Acquired : 21 Jun 2001 10:42 using AcqMethod OLM03.M
Instrument : HP_15
Sample Name: 46732.46
Misc Info :
Vial Number: 63



1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E30Z2

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30W6

Matrix: (soil/water) SOIL Lab Sample ID: 46732.47

Sample wt/vol: 30.8 (g/mL) G Lab File ID:_____

% Moisture: 14 decanted: (Y/N) __ Date Received: 06/09/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:06/09/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/21/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	37	U
11104-28-2	Aroclor-1221	37	U
11141-16-5	Aroclor-1232	37	U
53469-21-9	Aroclor-1242	240	
12672-29-6	Aroclor-1248	37	U
11097-69-1	Aroclor-1254	140	
11096-82-5	Aroclor-1260	70	
	Surrogate amount spiked	7.55	

FORM I PCB

Quantitation Report

Data File : F:\HPCHEM\HP\15\DATA\06_20_01\15062068.D\ECD1A.CH Vial: 64
Acq On : 21 Jun 2001 11:05 Operator: DDC
Sample : 46732.47 *E30Z2 * Inst : HP_15
Misc : *EPA*30.8G/5.0ML*14 Dilution: 1.00
IntFile : events.e

Data File : F:\HPCHEM\HP\15\DATA\06_20_01\15062068.D\ECD2B.CH Vial: 64
Acq On : 21 Jun 2001 11:05 Operator: DDC
Sample : 46732.47 Inst : HP_15
Misc : Dilution: 1.00
IntFile : events2.e
Quant Time: Jun 21 13:12 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
System Monitoring Compounds:						
1) S TCX	7.58	7.35	459888	433412	6.922	7.061
Spiked Amount 7.551			Recovery	=	91.67%	93.52%
S DCB	18.28	18.68	427594	404217	6.229	6.441
Spiked Amount 7.551			Recovery	=	82.50%	85.30%
Target Compounds:						
7) L4 Aroclor-1242	0.00	10.39	0	158579	N.D. d	212.4 #
8) L4 Aroclor-1242 {2}	9.70	11.17	124693	257120	120.2	202.7 #
10) L4 Aroclor-1242 {4}	11.64	12.63	574420	243012	377.5	298.8
11) L4 Aroclor-1242 {5}	12.80	0.00	766586	0	363.3	N.D. d #
Sum Aroclor-1242			1465699	658710	861.0	714.0
Average Aroclor-1242					287.006	237.992
12) L6 Aroclor-1254	12.63	0.00	590865	0	192.2	N.D. d #
13) L6 Aroclor-1254 {2}	13.31	0.00	403613	0	205.3	N.D. d #
14) L6 Aroclor-1254 {3}	13.78	13.92	325629	181294	119.2	132.0
15) L6 Aroclor-1254 {4}	14.31	14.92	367065	325454	149.8	166.0
16) L6 Aroclor-1254 {5}	14.99	15.39	208243	318487	101.0	131.4 #
Sum Aroclor-1254			1895416	825234	767.5	429.5
Average Aroclor-1254					153.508	143.151
17) L7 Aroclor-1260	14.31	0.00	367065	0	85.2	N.D. d #
18) L7 Aroclor-1260 {2}	14.80	14.72	559115	512727	96.5	134.8 #
19) L7 Aroclor-1260 {3}	15.25	14.92	579738	325454	104.9	72.3 #
20) L7 Aroclor-1260 {4}	15.71	0.00	96613	0	30.6	N.D. d #
21) L7 Aroclor-1260 {5}	16.16	16.32	219012	213342	34.9	34.1
Sum Aroclor-1260			1821543	1051523	132.9	91.0
Average Aroclor-1260					70.425	80.378

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

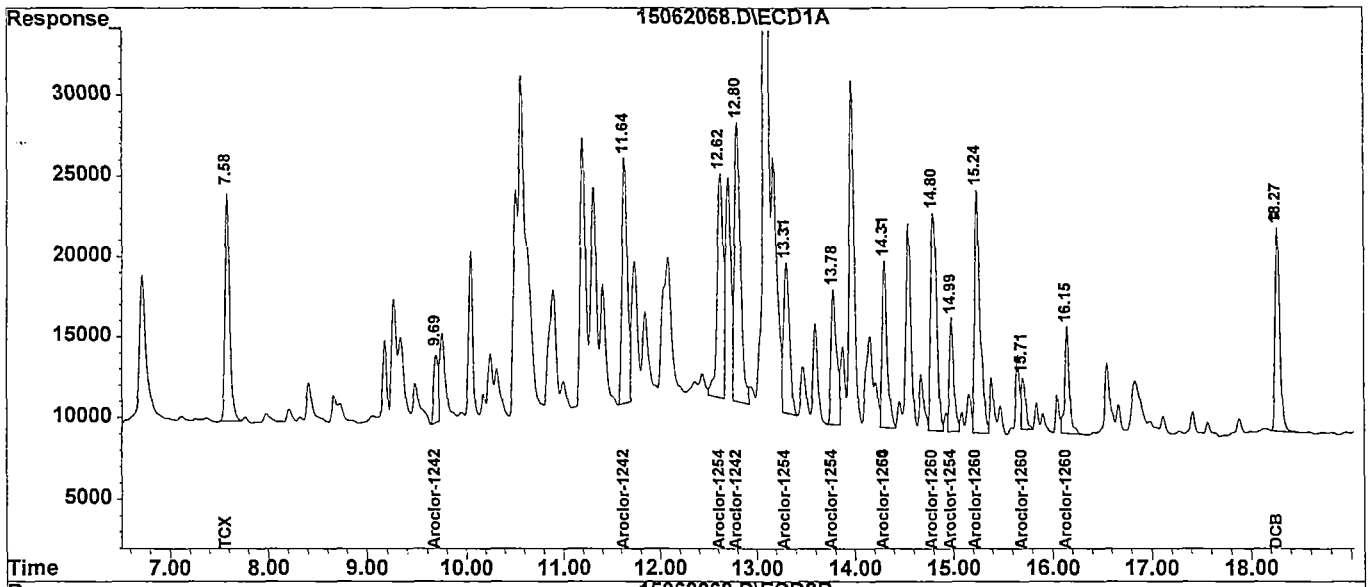
Chromatographic Report

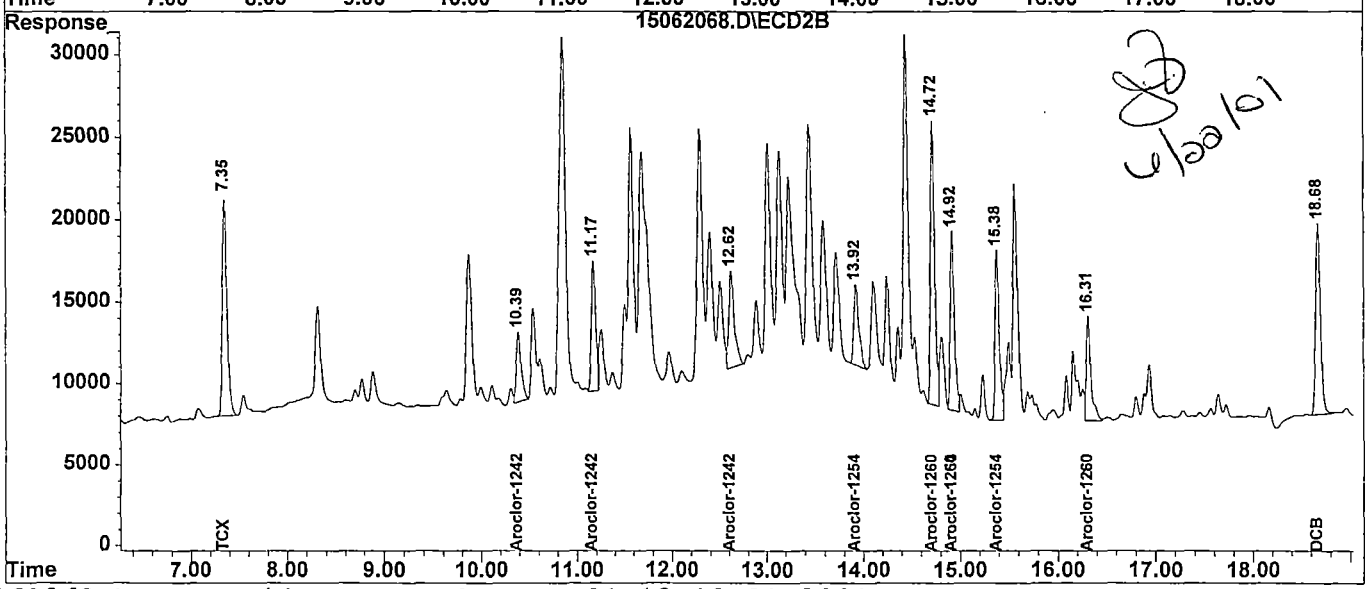
Data File : F:\HPCHEM\HP\15\DATA\06_20_01\15062068.D\ECD1A.CH Vial: 64
Acq On : 21 Jun 2001 11:05 Operator: DDC
Sample : 46732.47 *E30Z2 * Inst : HP_15
Misc : *EPA*30.8G/5.0ML*14 Dilution: 1.00
IntFile : events.e

Data File : F:\HPCHEM\HP\15\DATA\06_20_01\15062068.D\ECD2B.CH Vial: 64
Acq On : 21 Jun 2001 11:05 Operator: DDC
Sample : 46732.47 Inst : HP_15
Misc : Dilution: 1.00
IntFile : events2.e
Quant Time: Jun 21 13:12 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

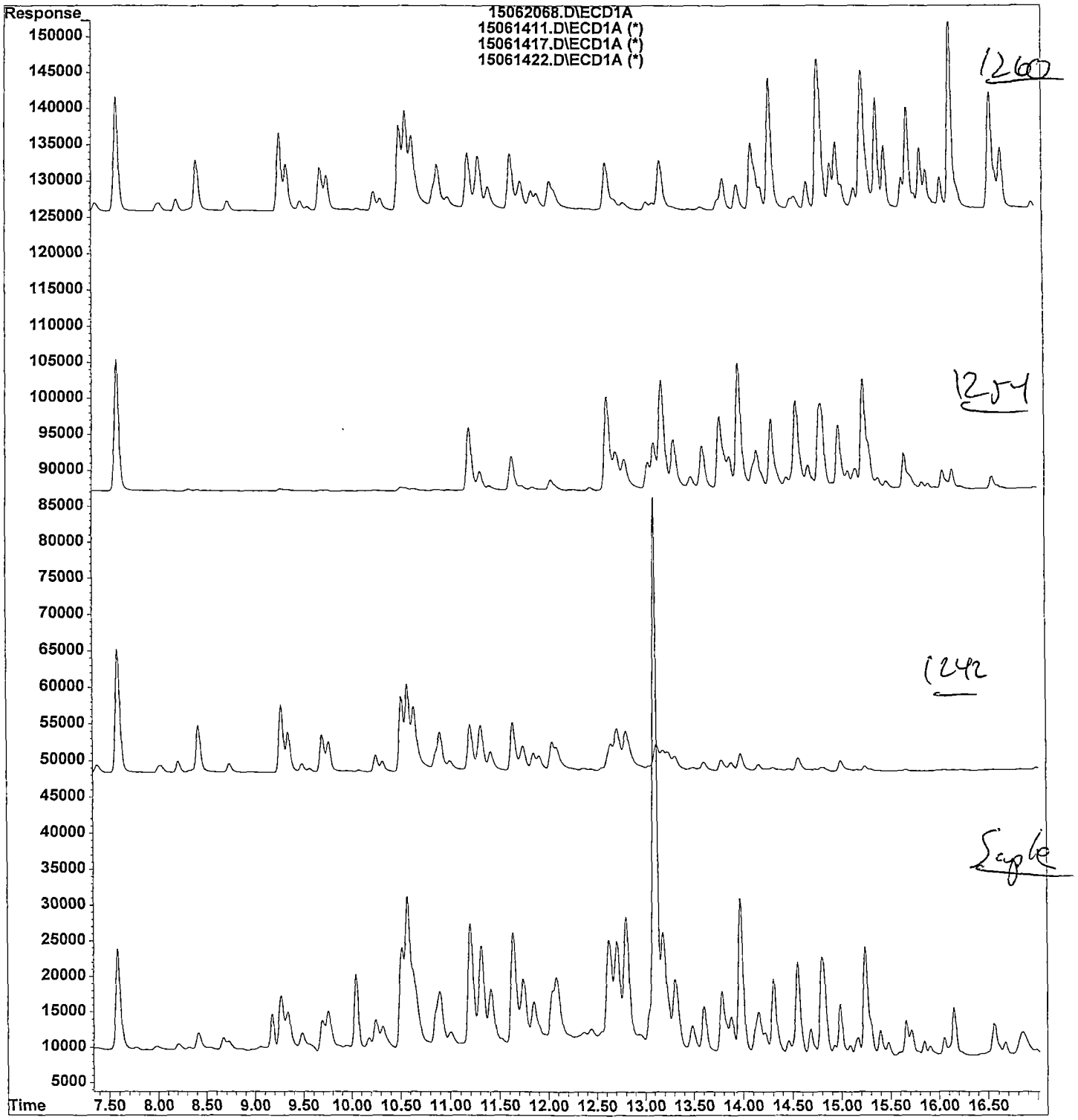
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/22/01

File : F:\HPCHEM\HP\15\DATA\06_20_01\15062068.D
Operator : DDC
Acquired : 21 Jun 2001 11:05 using AcqMethod OLM03.M
Instrument : HP_15
Sample Name: 46732.47
Misc Info :
Vial Number: 64



1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E30Z3

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30W6

Matrix: (soil/water) SOIL Lab Sample ID: 46732.48

Sample wt/vol: 30.7 (g/mL) G Lab File ID:_____

% Moisture: 9 decanted: (Y/N) __ Date Received: 06/09/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:06/09/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/21/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.6 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	35	U
11104-28-2	Aroclor-1221	35	U
11141-16-5	Aroclor-1232	35	U
53469-21-9	Aroclor-1242	200	
12672-29-6	Aroclor-1248	35	U
11097-69-1	Aroclor-1254	63	
11096-82-5	Aroclor-1260	35	U
	Surrogate amount spiked	7.16	

FORM I PCB

Quantitation Report

```
Data File : F:\HPCHEM\HP\15\DATA\06_20_01\15062069.D\ECD1A.CH Vial: 65
Acq On    : 21 Jun 2001  11:28                        Operator: DDC
Sample    : 46732.48  *E30Z3  *                       Inst    : HP_15
Misc      : *EPA*30.7G/5.0ML*9                        Dilution: 1.00
IntFile   : events.e

Data File : F:\HPCHEM\HP\15\DATA\06_20_01\15062069.D\ECD2B.CH Vial: 65
Acq On    : 21 Jun 2001  11:28                        Operator: DDC
Sample    : 46732.48                                  Inst    : HP_15
Misc      :                                           Dilution: 1.00
IntFile   : events2.e
Quant Time: Jun 21 13:15 2001  Quant Results File: XPCBF14.RES

Method       : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path   : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update  : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj.     : 0.5uL
Signal #1 Phase : DB-17MS          Signal #2 Phase: DB-XLB
Signal #1 Info  : .32 mm           Signal #2 Info : .32 mm
Signal #1 Inst  : HP_15A           Signal #2 Inst : HP_15B
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	7.58	7.35	403453	376718	5.758	5.819	
	Spiked Amount 7.159			Recovery	=	80.43%	81.28%	
^^)	S DCB	18.28	18.68	362769	336034	5.011	5.076	
	Spiked Amount 7.159			Recovery	=	70.00%	70.90%	
	Target Compounds:							
7)	L4 Aroclor-1242	8.41	10.39	148450	198017	91.3	251.5	#
8)	L4 Aroclor-1242 {2}	9.69	11.17	130337	262862	119.2	196.5	#
9)	L4 Aroclor-1242 {3}	0.00	12.40	0	260048	N.D. d	345.5	#
10)	L4 Aroclor-1242 {4}	11.64	12.63	483705	234438	301.4	273.3	
11)	L4 Aroclor-1242 {5}	12.81	0.00	670592	0	301.3	N.D. d	#
	Sum Aroclor-1242			1433084	955364	813.2	1066.9	
	Average Aroclor-1242					203.296	266.715	
13)	L6 Aroclor-1254 {2}	13.32	0.00	201905	0	97.4	N.D. d	#
14)	L6 Aroclor-1254 {3}	13.79	13.93	162373	109236	56.3	75.4	#
15)	L6 Aroclor-1254 {4}	14.31	14.92	148213	123072	57.4	59.5	
16)	L6 Aroclor-1254 {5}	14.99	15.39	92911	139206	42.7	54.5	#
	Sum Aroclor-1254			605402	371514	253.8	189.4	
	Average Aroclor-1254					63.456	63.134	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

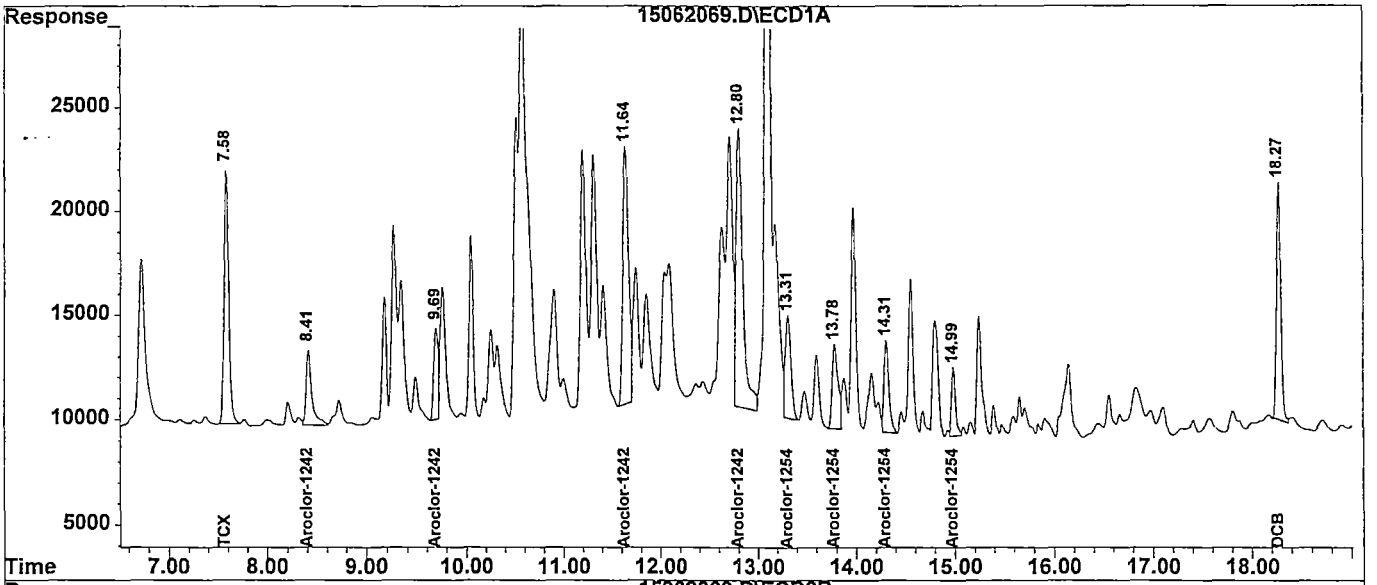
Chromatographic Report

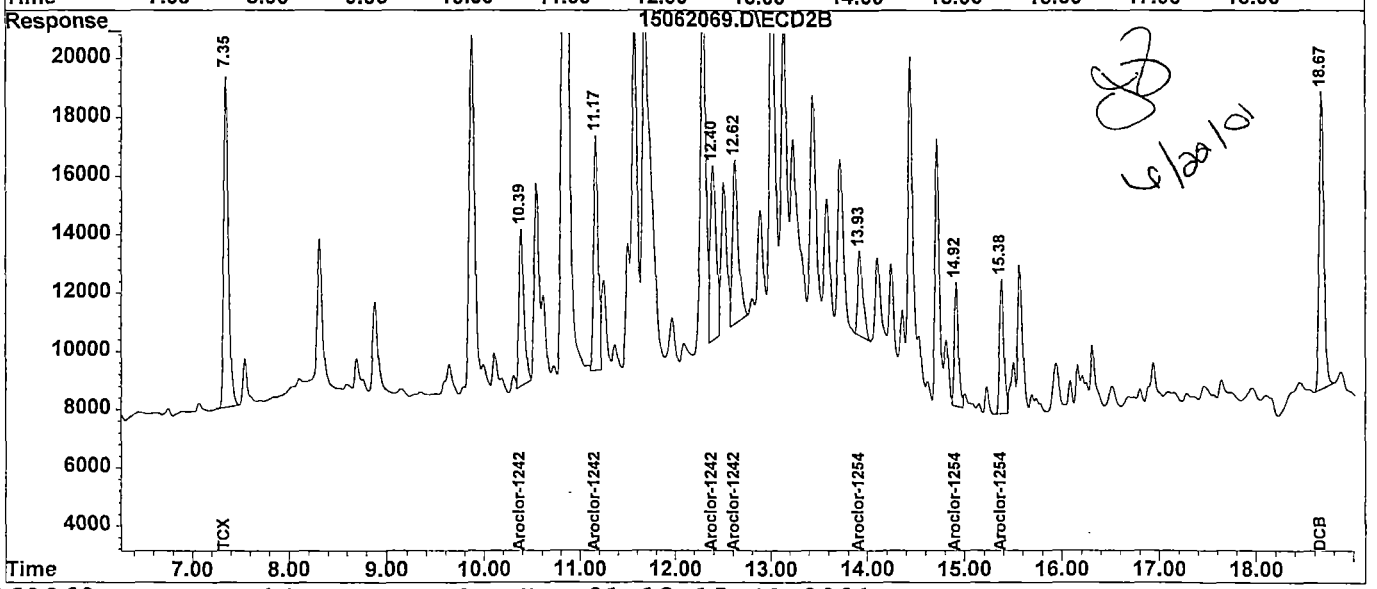
Data File : F:\HPCHEM\HP\15\DATA\06_20_01\15062069.D\ECD1A.CH Vial: 65
Acq On : 21 Jun 2001 11:28 Operator: DDC
Sample : 46732.48 *E30Z3 * Inst : HP_15
Misc : *EPA*30.7G/5.0ML*9 Dilution: 1.00
IntFile : events.e

Data File : F:\HPCHEM\HP\15\DATA\06_20_01\15062069.D\ECD2B.CH Vial: 65
Acq On : 21 Jun 2001 11:28 Operator: DDC
Sample : 46732.48 Inst : HP_15
Misc : Dilution: 1.00
IntFile : events2.e
Quant Time: Jun 21 13:15 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

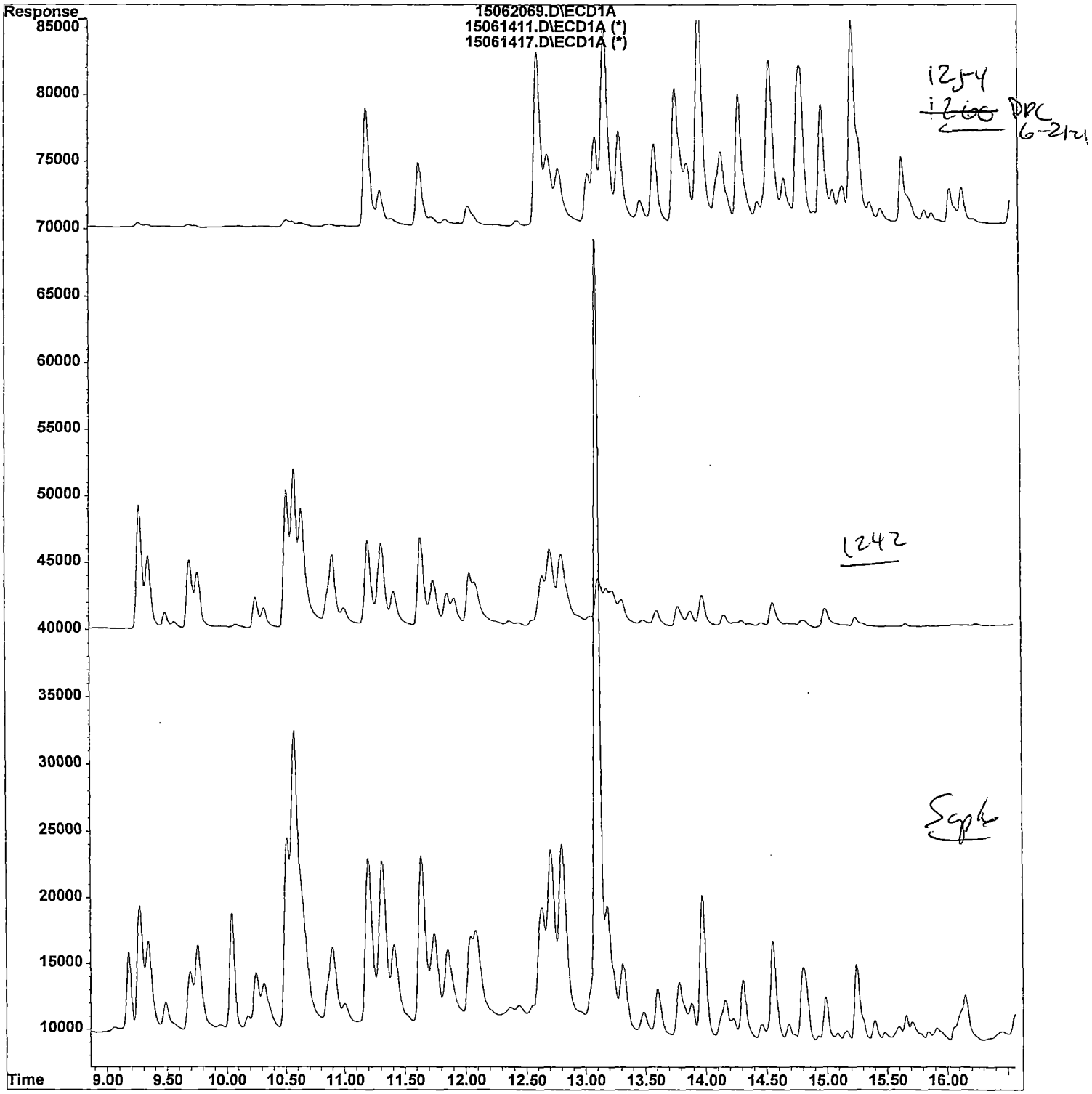




6/20/01

60

File : F:\HPCHEM\HP\15\DATA\06_20_01\15062069.D
Operator : DDC
Acquired : 21 Jun 2001 11:28 using AcqMethod OLM03.M
Instrument : HP_15
Sample Name: 46732.48
Misc Info :
Vial Number: 65



1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E30Z4

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30W6

Matrix: (soil/water) SOIL Lab Sample ID: 46732.49

Sample wt/vol: 30.0 (g/mL) G Lab File ID:_____

% Moisture: 14 decanted: (Y/N) __ Date Received: 06/09/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:06/09/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/21/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.6 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	38	U
11104-28-2	Aroclor-1221	38	U
11141-16-5	Aroclor-1232	38	U
53469-21-9	Aroclor-1242	240	
12672-29-6	Aroclor-1248	38	U
11097-69-1	Aroclor-1254	72	
11096-82-5	Aroclor-1260	35	J
Surrogate amount spiked		7.75	

Quantitation Report

Data File : F:\HPCHEM\HP\15\DATA\06_20_01\15062070.D\ECD1A.CH Vial: 66
Acq On : 21 Jun 2001 11:51 Operator: DDC
Sample : 46732.49 *E30Z4 * Inst : HP_15
Misc : *EPA*30G/5.0ML*14 Dilution: 1.00
IntFile : events.e

Data File : F:\HPCHEM\HP\15\DATA\06_20_01\15062070.D\ECD2B.CH Vial: 66
Acq On : 21 Jun 2001 11:51 Operator: DDC
Sample : 46732.49 Inst : HP_15
Misc : Dilution: 1.00
IntFile : events2.e
Quant Time: Jun 21 13:19 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.58	7.35	403493	381370	6.235	6.379
	Spiked Amount 7.752			Recovery	=	80.43%	82.29%
22)	S DCB	18.28	18.68	386257	357267	5.777	5.844
	Spiked Amount 7.752			Recovery	=	74.52%	75.39%
	Target Compounds:						
7)	L4 Aroclor-1242	8.41	0.00	357097	0	237.9	N.D. d #
8)	L4 Aroclor-1242 {2}	9.70	11.17	137511	379308	136.1	307.1 #
9)	L4 Aroclor-1242 {3}	0.00	12.40	0	266185	N.D. d	383.0 #
10)	L4 Aroclor-1242 {4}	11.64	12.63	538030	226208	363.0	285.6
11)	L4 Aroclor-1242 {5}	0.00	13.14	0	255464	N.D. d	230.6 #
	Sum Aroclor-1242			1032638	1127166	737.0	1206.2
	Average Aroclor-1242					245.656	301.559
13)	L6 Aroclor-1254 {2}	13.31	0.00	205312	0	107.2	N.D. d #
14)	L6 Aroclor-1254 {3}	13.79	13.93	168200	116009	63.2	86.7 #
15)	L6 Aroclor-1254 {4}	14.31	14.92	164229	131305	68.8	68.8
16)	L6 Aroclor-1254 {5}	14.99	15.39	110611	143081	55.1	60.6
	Sum Aroclor-1254			648353	390395	294.3	216.1
	Average Aroclor-1254					73.586	72.036
17)	L7 Aroclor-1260	14.31	0.00	164229	0	39.1	N.D. d #
18)	L7 Aroclor-1260 {2}	14.80	14.72	228188	312054	40.4	84.2 #
19)	L7 Aroclor-1260 {3}	15.25	14.92	224711	131305	41.8	29.9 #
20)	L7 Aroclor-1260 {4}	0.00	16.09	0	44033	N.D. d	17.5 #
21)	L7 Aroclor-1260 {5}	16.16	0.00	110828	0	18.1	N.D. d #
	Sum Aroclor-1260			727956	487392	54.0	51.0
	Average Aroclor-1260					34.862	43.886

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

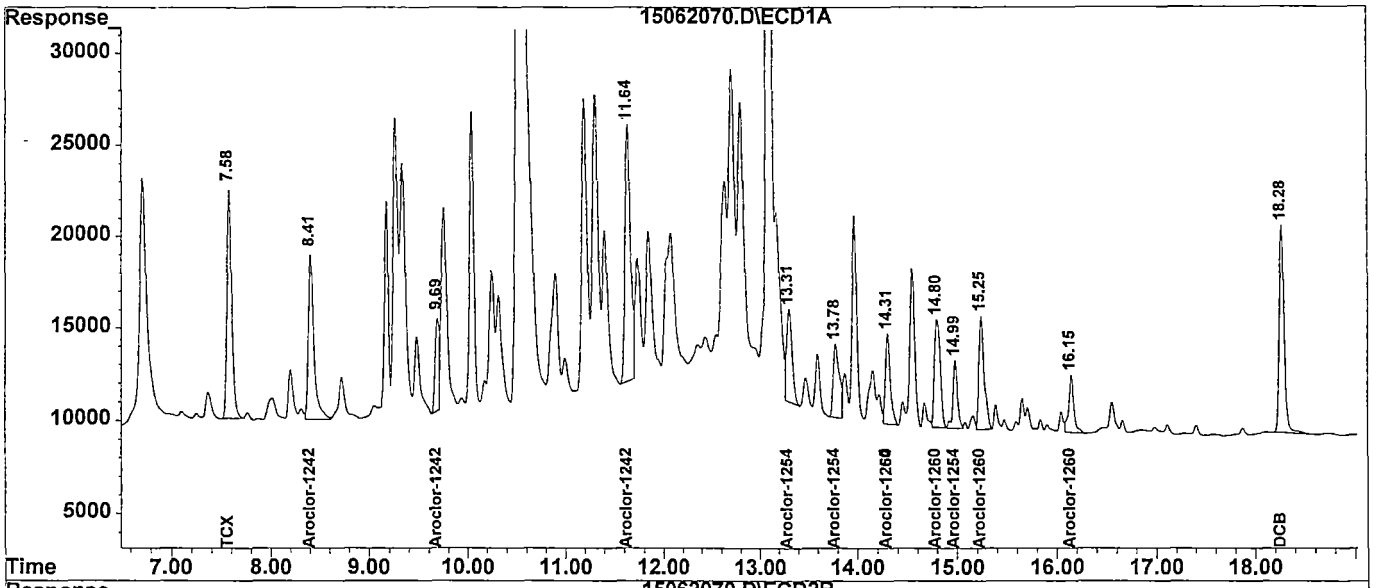
Chromatographic Report

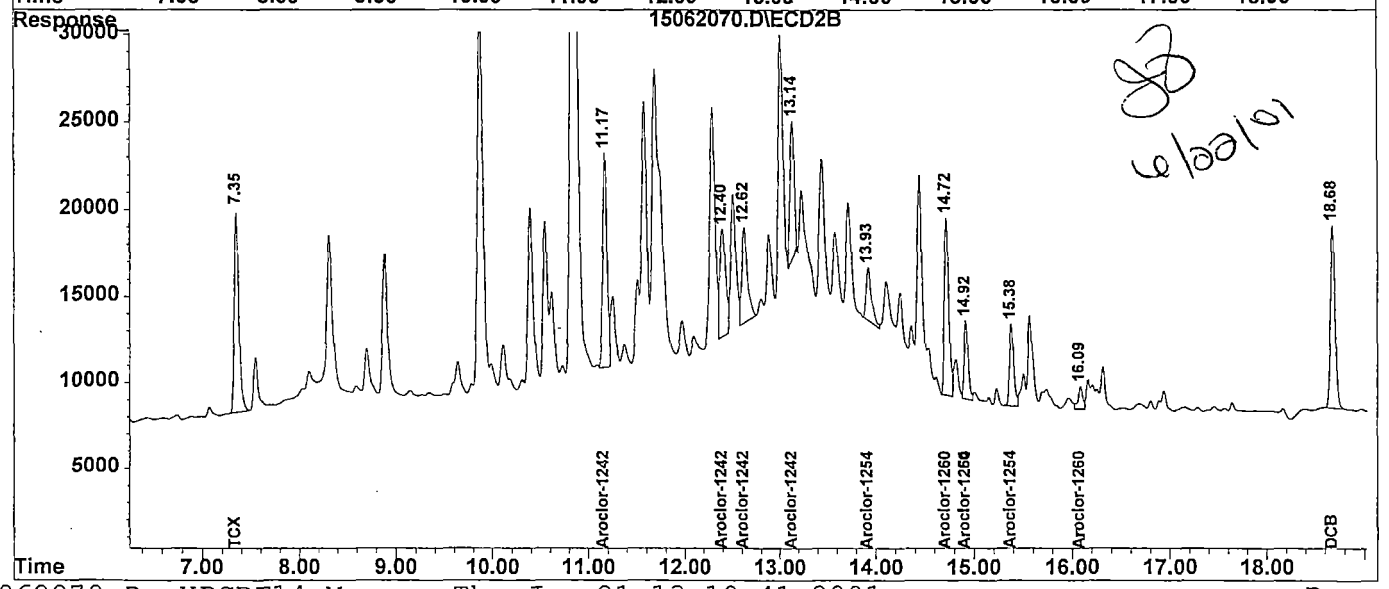
Data File : F:\HPCHEM\HP\15\DATA\06_20_01\15062070.D\ECD1A.CH Vial: 66
Acq On : 21 Jun 2001 11:51 Operator: DDC
Sample : 46732.49 *E30Z4 * Inst : HP_15
Misc : *EPA*30G/5.0ML*14 Dilution: 1.00
IntFile : events.e

Data File : F:\HPCHEM\HP\15\DATA\06_20_01\15062070.D\ECD2B.CH Vial: 66
Acq On : 21 Jun 2001 11:51 Operator: DDC
Sample : 46732.49 Inst : HP_15
Misc : Dilution: 1.00
IntFile : events2.e
Quant Time: Jun 21 13:19 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

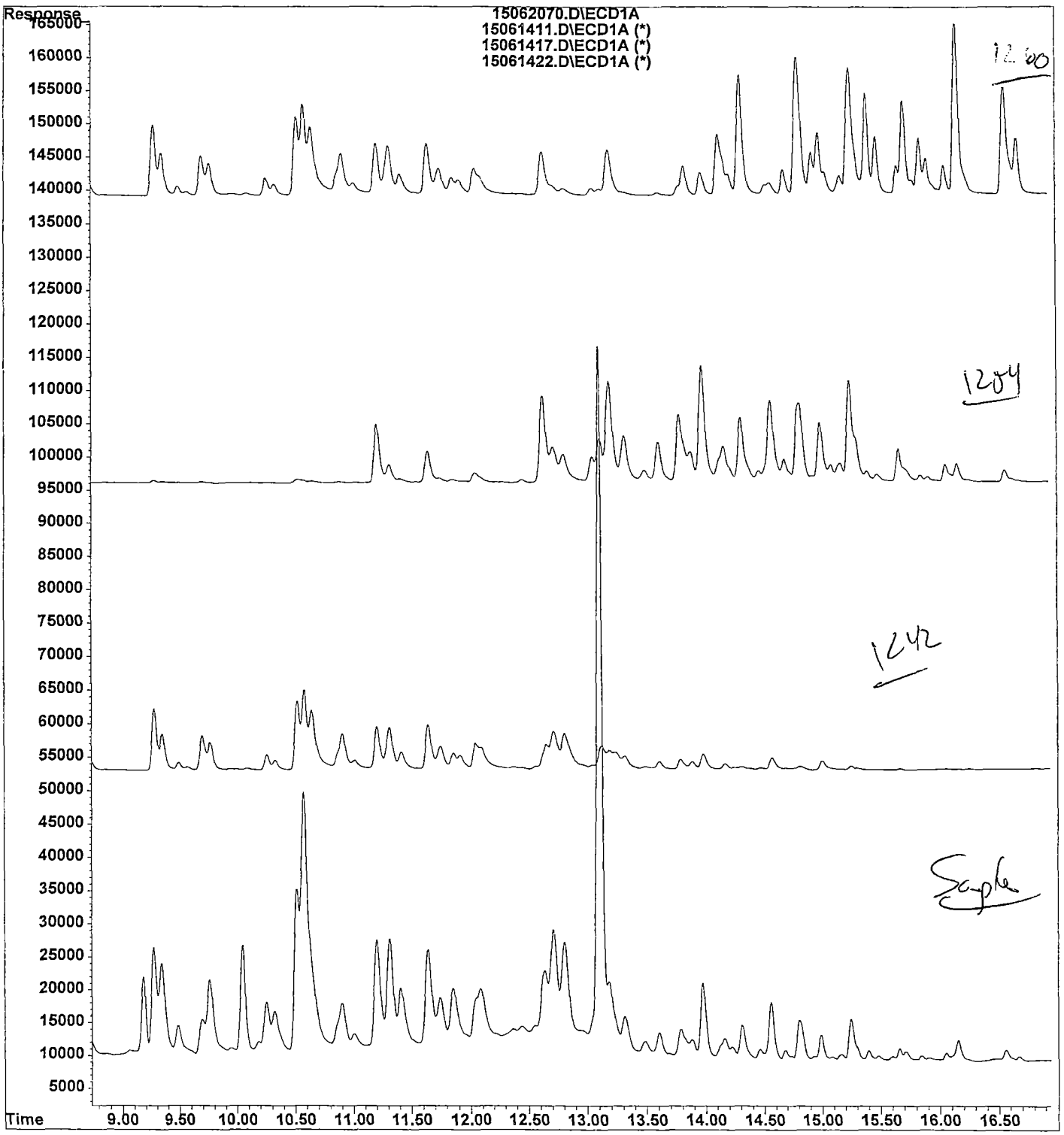
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/22/01

File : F:\HPCHEM\HP\15\DATA\06_20_01\15062070.D
Operator : DDC
Acquired : 21 Jun 2001 11:51 using AcqMethod OLM03.M
Instrument : HP_15
Sample Name: 46732.49
Misc Info :
Vial Number: 66



1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E30Z5

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30W6

Matrix: (soil/water) SOIL Lab Sample ID: 46732.50

Sample wt/vol: 30.5 (g/mL) G Lab File ID:_____

% Moisture: 16 decanted: (Y/N) __ Date Received: 06/09/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:06/09/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/21/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.3 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	39	U
11104-28-2	Aroclor-1221	39	U
11141-16-5	Aroclor-1232	39	U
53469-21-9	Aroclor-1242	170	
12672-29-6	Aroclor-1248	39	U
11097-69-1	Aroclor-1254	36	J
11096-82-5	Aroclor-1260	18	J
	Surrogate amount spiked	7.81	

Quantitation Report

Data File : F:\HPCHEM\HP\15\DATA\06_20_01\15062071.D\ECD1A.CH Vial: 67
Acq On : 21 Jun 2001 12:15 Operator: DDC
Sample : 46732.50 *E30Z5 * Inst : HP_15
Misc : *EPA*30.5G/5.0ML*16 Dilution: 1.00
IntFile : events.e

Data File : F:\HPCHEM\HP\15\DATA\06_20_01\15062071.D\ECD2B.CH Vial: 67
Acq On : 21 Jun 2001 12:15 Operator: DDC
Sample : 46732.50 Inst : HP_15
Misc : Dilution: 1.00
IntFile : events2.e
Quant Time: Jun 21 13:21 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
System Monitoring Compounds:						
1) S TCX	7.59	7.35	454029	432685	7.066	7.288
Spiked Amount 7.806			Recovery	=	90.52%	93.36%
S DCB	18.28	18.68	390845	379285	5.887	6.248
Spiked Amount 7.806			Recovery	=	75.41%	80.04%
Target Compounds:						
7) L4 Aroclor-1242	8.42	10.39	190711	198162	127.9	274.5 #
8) L4 Aroclor-1242 {2}	9.70	11.17	85280	230480	85.0	187.9 #
9) L4 Aroclor-1242 {3}	0.00	12.40	0	161943	N.D. d	234.6 #
10) L4 Aroclor-1242 {4}	11.64	12.63	340664	148126	231.4	188.3
11) L4 Aroclor-1242 {5}	12.81	0.00	455748	0	223.3	N.D. d #
Sum Aroclor-1242			1072403	738710	667.7	885.3
Average Aroclor-1242					166.925	221.321
13) L6 Aroclor-1254 {2}	13.32	0.00	118768	0	62.5	N.D. d #
14) L6 Aroclor-1254 {3}	13.79	13.93	86944	57887	32.9	43.6 #
15) L6 Aroclor-1254 {4}	14.31	14.92	87576	70390	37.0	37.1
16) L6 Aroclor-1254 {5}	14.99	15.39	43965	67301	22.1	28.7 #
Sum Aroclor-1254			337253	195578	154.4	109.4
Average Aroclor-1254					38.594	36.471
17) L7 Aroclor-1260	14.31	0.00	87576	0	21.0	N.D. d #
18) L7 Aroclor-1260 {2}	14.81	14.73	112048	166046	20.0	45.1 #
19) L7 Aroclor-1260 {3}	15.25	14.92	103449	70390	19.4	16.2
20) L7 Aroclor-1260 {4}	0.00	16.09	0	13440	N.D. d	5.378 #
21) L7 Aroclor-1260 {5}	16.15	0.00	71698	0	11.8	N.D. d #
Sum Aroclor-1260			374771	249875	28.2	26.0
Average Aroclor-1260					18.043	22.223

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

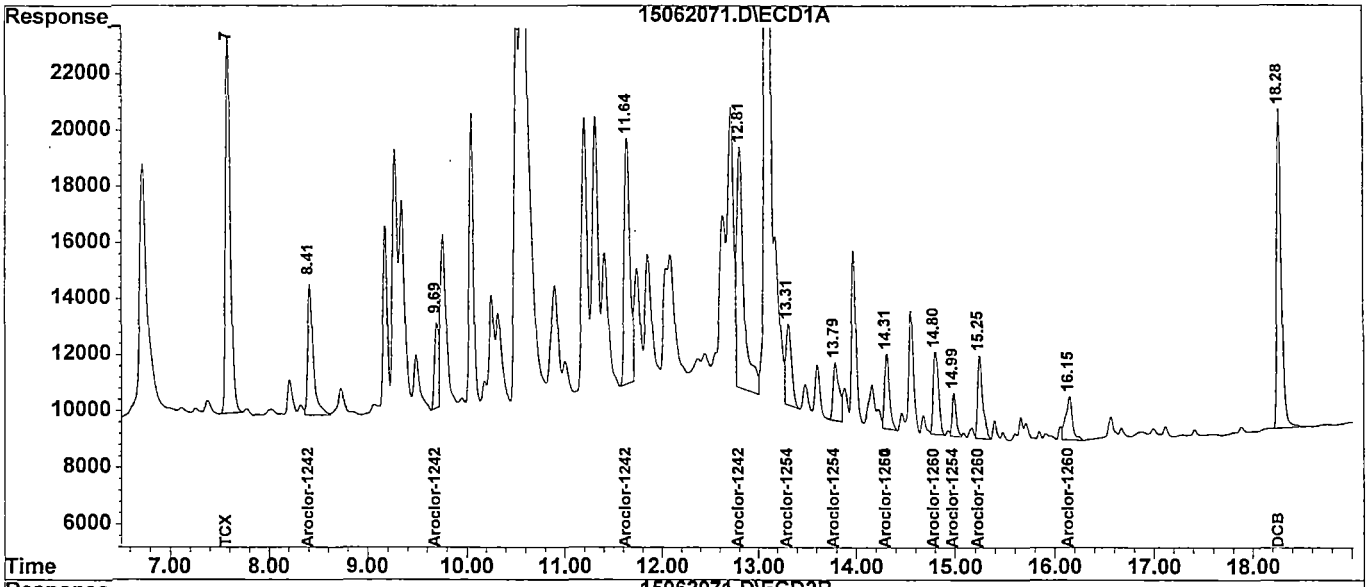
Chromatographic Report

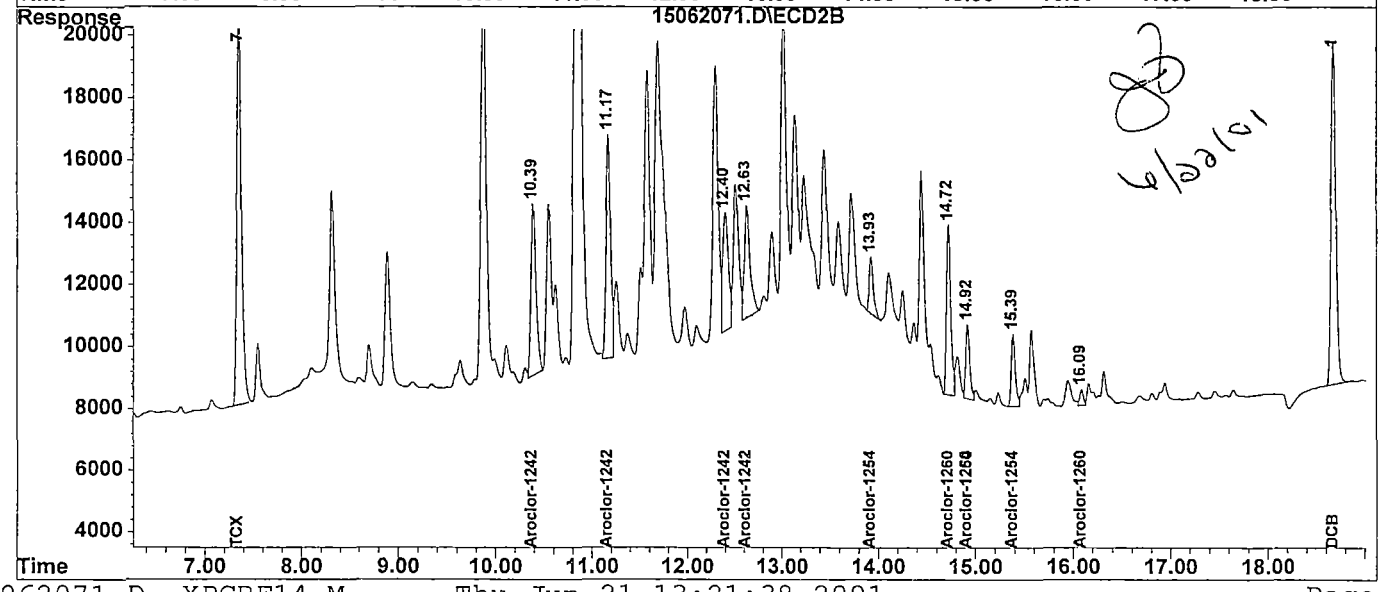
Data File : F:\HPCHEM\HP\15\DATA\06_20_01\15062071.D\ECD1A.CH Vial: 67
Acq On : 21 Jun 2001 12:15 Operator: DDC
Sample : 46732.50 *E30Z5 * Inst : HP_15
Misc : *EPA*30.5G/5.0ML*16 Dilution: 1.00
IntFile : events.e

Data File : F:\HPCHEM\HP\15\DATA\06_20_01\15062071.D\ECD2B.CH Vial: 67
Acq On : 21 Jun 2001 12:15 Operator: DDC
Sample : 46732.50 Inst : HP_15
Misc : Dilution: 1.00
IntFile : events2.e
Quant Time: Jun 21 13:21 2001 Quant Results File: XPCBF14.RES

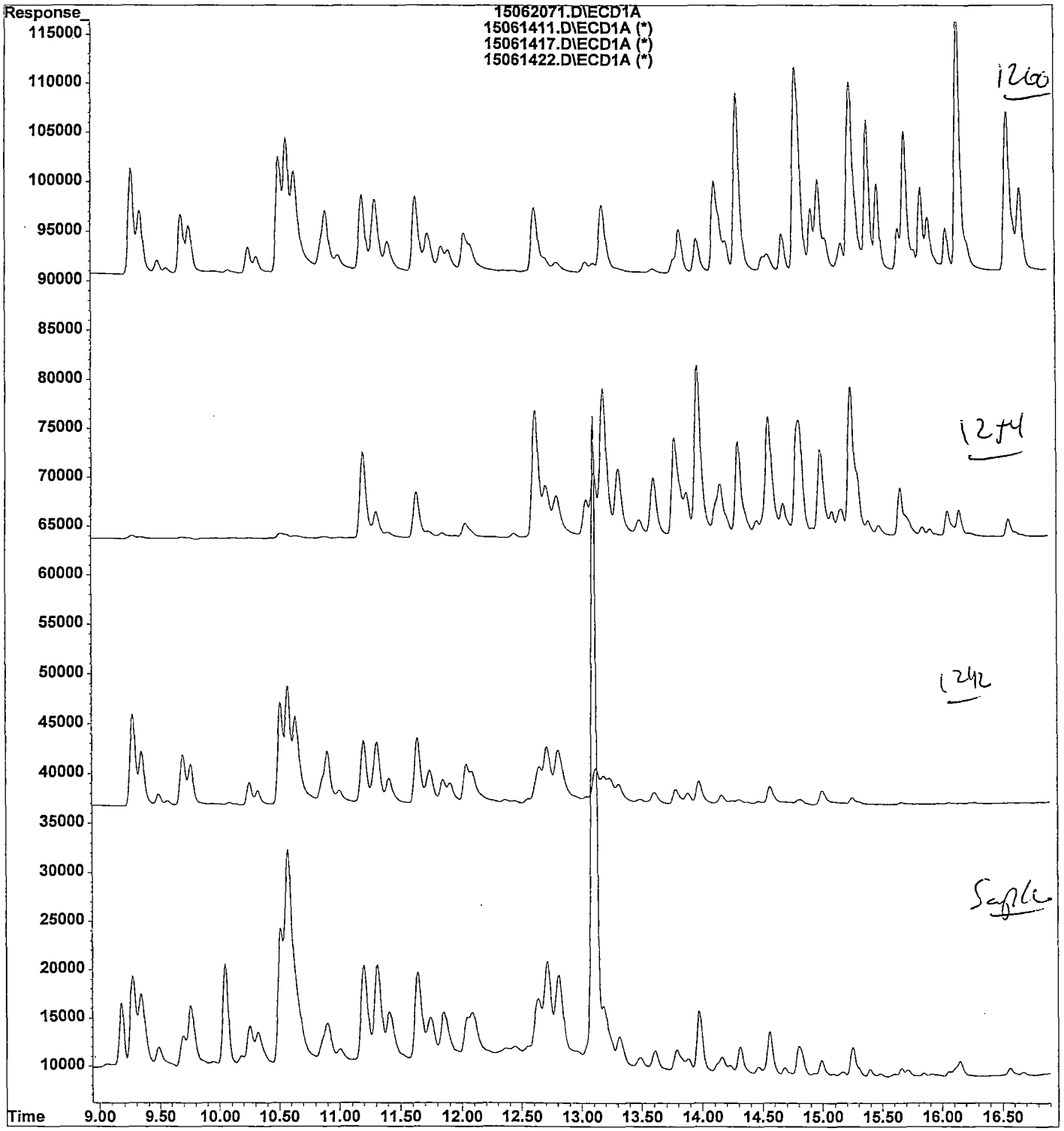
Method : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





File : F:\HPCHEM\HP\15\DATA\06_20_01\15062071.D
Operator : DDC
Acquired : 21 Jun 2001 12:15 using AcqMethod OLM03.M
Instrument : HP_15
Sample Name: 46732.50
Misc Info :
Vial Number: 67



1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E30Z6

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30W6

Matrix: (soil/water) SOIL Lab Sample ID: 46732.51

Sample wt/vol: 30.4 (g/mL) G Lab File ID:_____

% Moisture: 25 decanted: (Y/N) __ Date Received: 06/09/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:06/09/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/21/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.2 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	43	U
11104-28-2	Aroclor-1221	43	U
11141-16-5	Aroclor-1232	43	U
53469-21-9	Aroclor-1242	140	P
12672-29-6	Aroclor-1248	43	U
11097-69-1	Aroclor-1254	86	P
11096-82-5	Aroclor-1260	43	
Surrogate amount spiked		8.77	

FORM I PCB

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_20_01\15062072.D\ECD1A.CH Vial: 68
Signal #2 : F:\HPCHEM\HP\15\DATA\06_20_01\15062072.D\ECD2B.CH
Acq On : 21 Jun 2001 12:38 Operator: DDC
Sample : 46732.51 *E30Z6 * Inst : HP_15
Misc : *EPA*30.4G/5.0ML*25 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 21 13:26 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

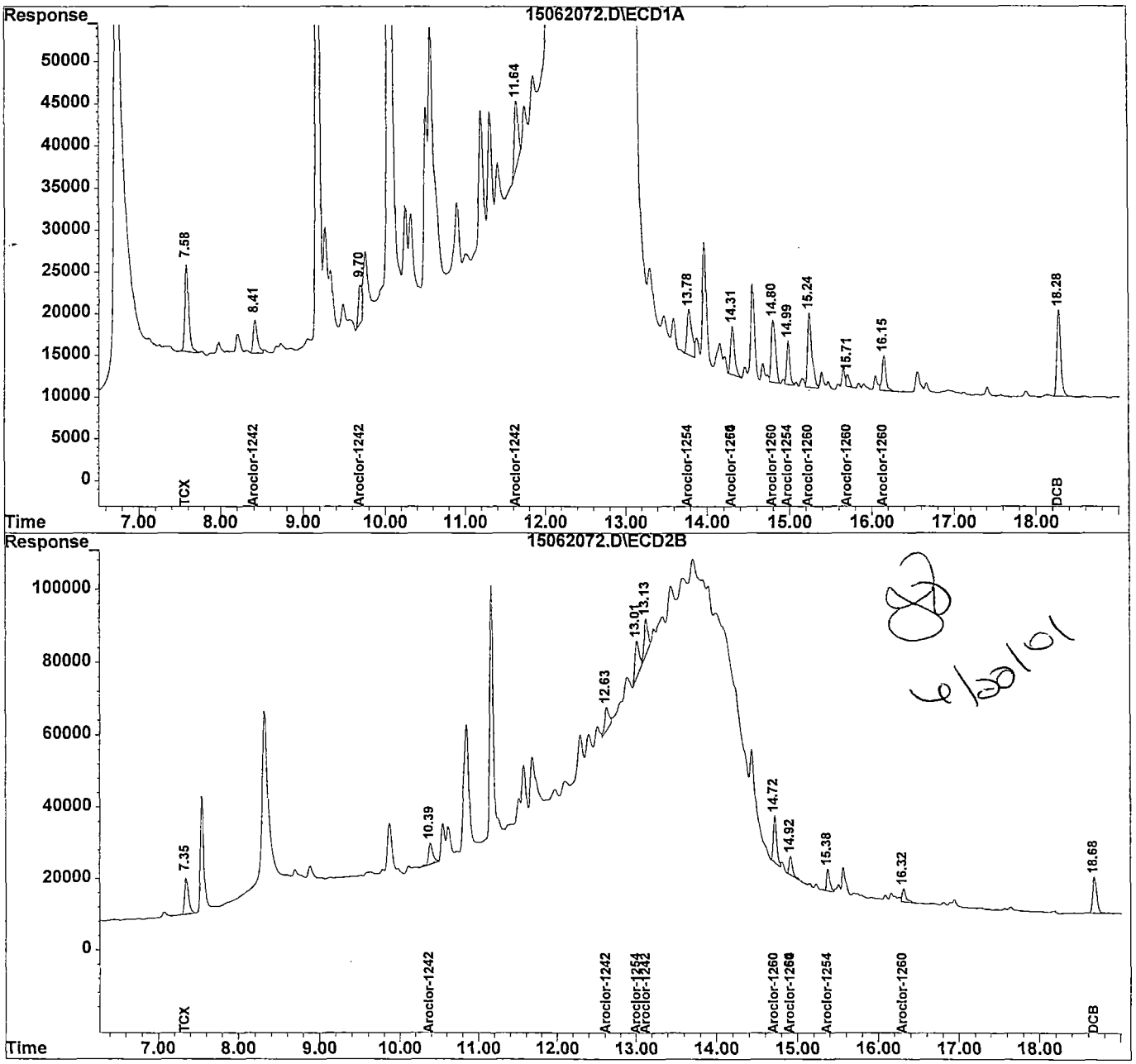
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.58	7.35	334737	332970	5.854	6.302
	Spiked Amount 8.772			Recovery	=	66.74%	71.84%
22)	S DCB	18.28	18.68	368780	343855	6.242	6.365
	Spiked Amount 8.772			Recovery	=	71.16%	72.56%
	Target Compounds:						
7)	L4 Aroclor-1242	8.41	10.39	142811	227515	107.6	354.1 #
°)	L4 Aroclor-1242 {2}	9.70	0.00	121212	0	135.8 DDC 6-21-01	N.D. d #
,	L4 Aroclor-1242 {4}	11.64	12.63	244644	223524	186.8m	319.3 #
11)	L4 Aroclor-1242 {5}	0.00	13.14	0	397973	N.D. d	406.6 #
	Sum Aroclor-1242			508667	849012	430.2	1080.0
	Average Aroclor-1242					143.398	359.987
13)	L6 Aroclor-1254 {2}	0.00	13.02	0	341322	N.D. d	315.0 #
14)	L6 Aroclor-1254 {3}	13.79	0.00	217232	0	92.4	N.D. d #
15)	L6 Aroclor-1254 {4}	14.31	14.92	183604	149399	87.1	88.5
16)	L6 Aroclor-1254 {5}	14.99	15.38	140018	175108	78.9	83.9
	Sum Aroclor-1254			540854	665829	258.3	487.5
	Average Aroclor-1254					86.109	162.506
17)	L7 Aroclor-1260	14.31	0.00	183604	0	49.5	N.D. d #
18)	L7 Aroclor-1260 {2}	14.80	14.72	285270	378085	57.2	115.5 #
19)	L7 Aroclor-1260 {3}	15.25	14.92	331264	149399	69.6	38.6 #
20)	L7 Aroclor-1260 {4}	15.71	0.00	40260	0	14.8	N.D. d #
21)	L7 Aroclor-1260 {5}	16.16	16.32	132675	124208	24.6	23.0
	Sum Aroclor-1260			973073	651692	94.6	77.7
	Average Aroclor-1260					43.147	59.018

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

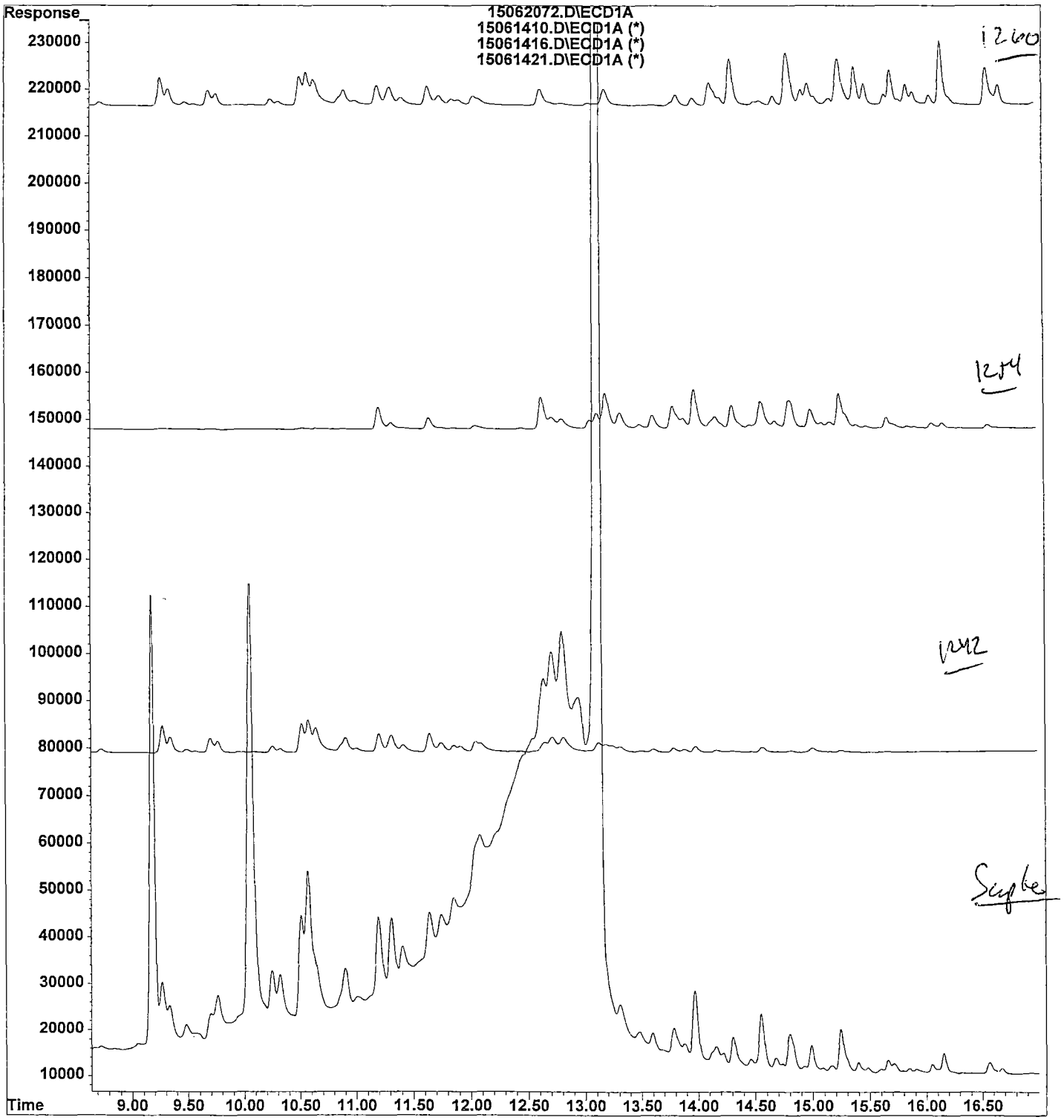
Chromatographic Report

```
Signal #1 : F:\HPCHEM\HP\15\DATA\06_20_01\15062072.D\ECD1A.CH Vial: 68
Signal #2 : F:\HPCHEM\HP\15\DATA\06_20_01\15062072.D\ECD2B.CH
Acq On    : 21 Jun 2001  12:38                        Operator: DDC
Sample    : 46732.51  *E30Z6  *                       Inst    : HP_15
Misc      : *EPA*30.4G/5.0ML*25                       Dilution: 1.00
IntFile Signal #1: events.e     IntFile Signal #2: events2.e
Quant Time: Jun 21 13:26 2001  Quant Results File: XPCBF14.RES

Method       : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path   : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update  : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj.      : 0.5uL
Signal #1 Phase : DB-17MS            Signal #2 Phase: DB-XLB
Signal #1 Info  : .32 mm             Signal #2 Info : .32 mm
Signal #1 Inst  : HP_15A             Signal #2 Inst : HP_15B
```



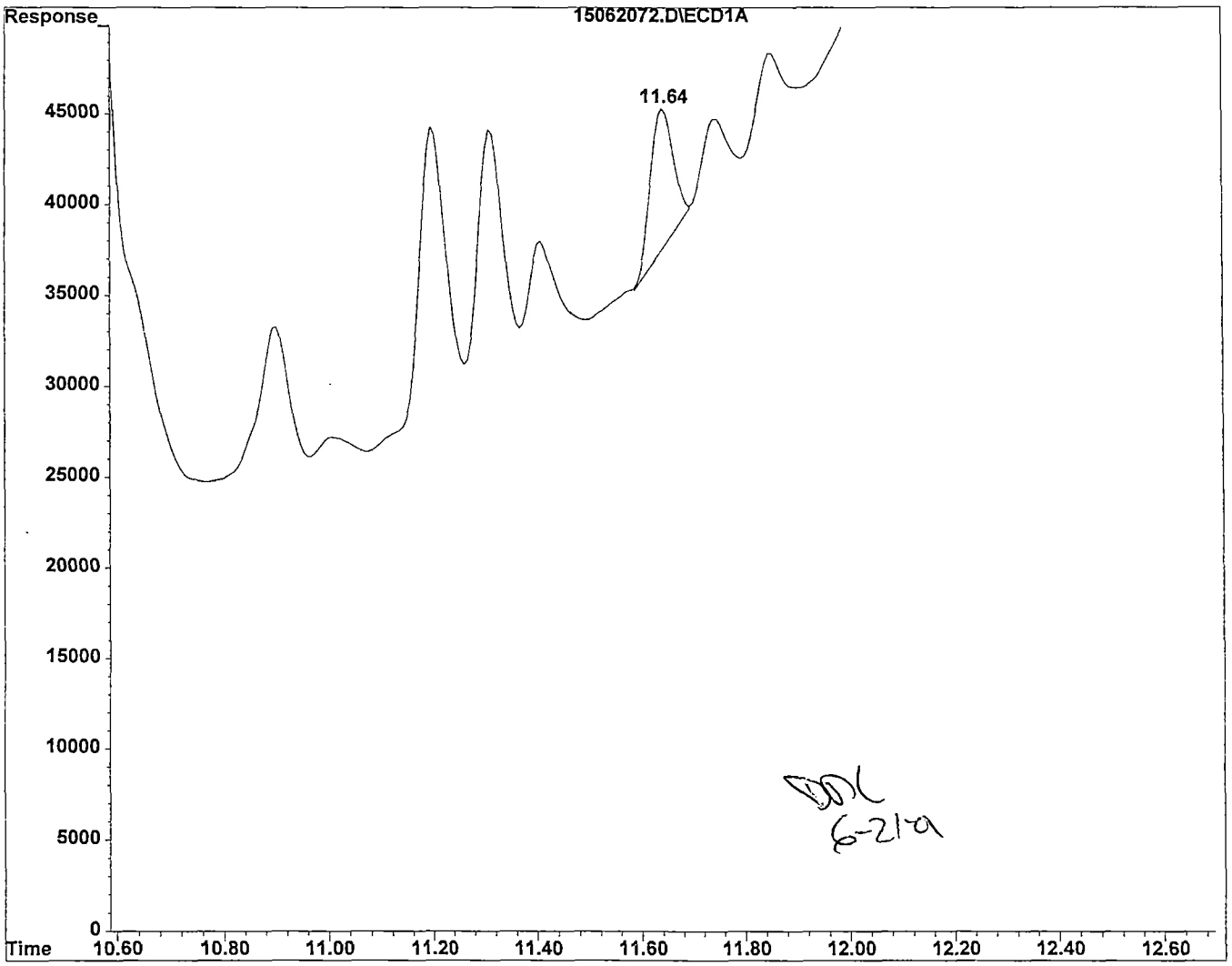
6/20/01

File : F:\HPCHEM\HP\15\DATA\06_20_01\15062072.D
Operator : DDC
Acquired : 21 Jun 2001 12:38 using AcqMethod OLM03.M
Instrument : HP_15
Sample Name: 46732.51
Misc Info :
Vial Number: 68



MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\15\DATA\06_20_01\15062072.D
Date Acquired: 21 Jun 2001 12:38
Inst: HP_15 Operator ID: DDC
Name: 46732.51 *E30Z6 *
Misc: *EPA*30.4G/5.0ML*25
Method: F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title: PCB/TOXAPHENE
Quant Time: Jun 21 13:26 2001 Quant Results File: XPCBF14.RES



Aroclor-1242 {4} 11.64min area: 244644 m

Integration Time Range: 11.59 - 11.70

F:\HPCHEM\HP\15\DATA\06_20_01\15062072.D
Report generated: Thu Jun 21 13:27:01 2001

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_20_01\15062072.D\ECD1A.CH Vial: 68
Signal #2 : F:\HPCHEM\HP\15\DATA\06_20_01\15062072.D\ECD2B.CH
Acq On : 21 Jun 2001 12:38 Operator: DDC
Sample : 46732.51 *E30Z6 * Inst : HP_15
Misc : *EPA*30.4G/5.0ML*25 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 21 13:26 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.58	7.35	334737	332970	5.854	6.302
	Spiked Amount 8.772			Recovery	=	66.74%	71.84%
22)	S DCB	18.28	18.68	368780	343855	6.242	6.365
	Spiked Amount 8.772			Recovery	=	71.16%	72.56%
	Target Compounds:						
7)	L4 Aroclor-1242	8.41	10.39	142811	227515	107.6 DMC 6-22-1	354.1 #
	L4 Aroclor-1242 {2}	9.70	0.00	121212	0	135.8	N.D. d #
	L4 Aroclor-1242 {4}	11.64	12.63	244644	223524	186.8m	319.3 #
11)	L4 Aroclor-1242 {5}	0.00	13.14	0	397973	N.D. d	406.6 #
	Sum Aroclor-1242			508667	849012	430.2	1080.0
	Average Aroclor-1242					143.398	359.987
13)	L6 Aroclor-1254 {2}	0.00	13.02	0	341322	N.D. d	315.0 #
14)	L6 Aroclor-1254 {3}	13.79	0.00	217232	0	92.4	N.D. d #
15)	L6 Aroclor-1254 {4}	14.31	14.92	183604	149399	87.1	88.5
16)	L6 Aroclor-1254 {5}	14.99	15.38	140018	175108	78.9	83.9
	Sum Aroclor-1254			540854	665829	258.3	487.5
	Average Aroclor-1254					86.109	162.506
17)	L7 Aroclor-1260	14.31	0.00	183604	0	49.5	N.D. d #
18)	L7 Aroclor-1260 {2}	14.80	14.72	285270	378085	57.2	115.5 #
19)	L7 Aroclor-1260 {3}	15.25	14.92	331264	149399	69.6	38.6 #
20)	L7 Aroclor-1260 {4}	15.71	0.00	40260	0	14.8	N.D. d #
21)	L7 Aroclor-1260 {5}	16.16	16.32	132675	124208	24.6	23.0
	Sum Aroclor-1260			973073	651692	94.6	77.7
	Average Aroclor-1260					43.147	59.018

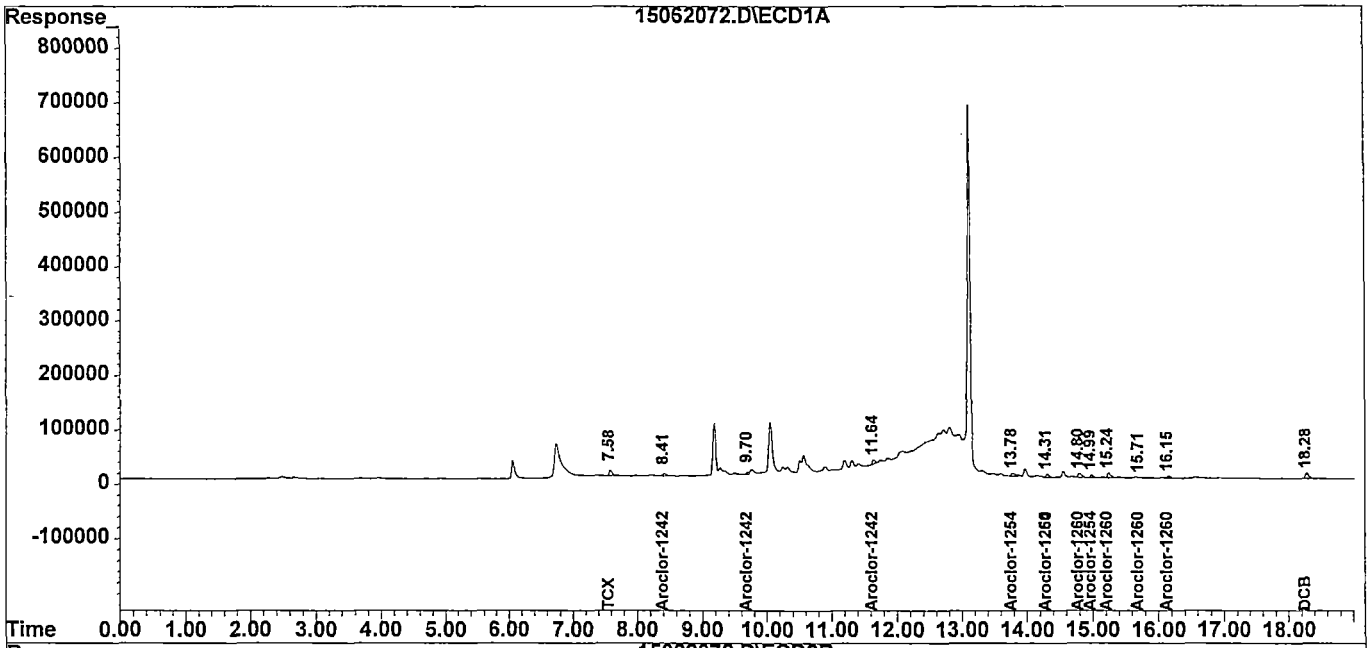
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

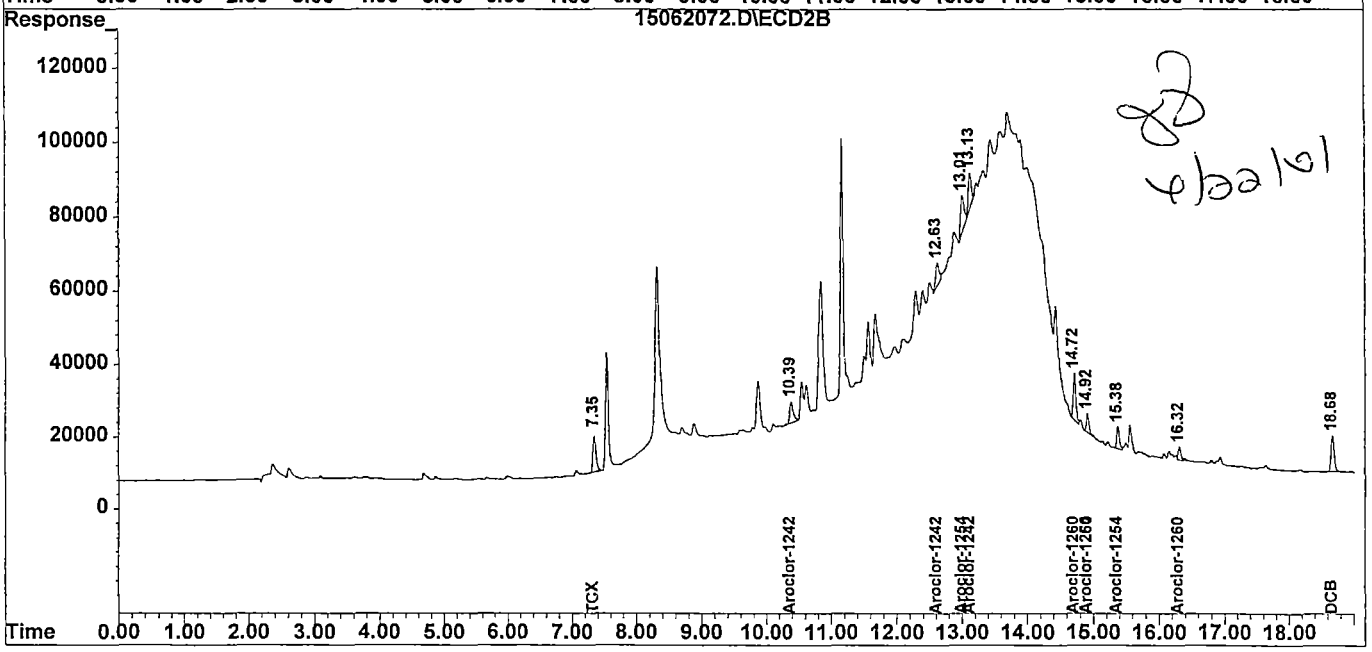
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_20_01\15062072.D\ECD1A.CH Vial: 68
Signal #2 : F:\HPCHEM\HP\15\DATA\06_20_01\15062072.D\ECD2B.CH
Acq On : 21 Jun 2001 12:38 Operator: DDC
Sample : 46732.51 *E30Z6 * Inst : HP_15
Misc : *EPA*30.4G/5.0ML*25 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 21 13:26 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/22/01

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E30Z7

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30W6

Matrix: (soil/water) SOIL Lab Sample ID: 46732.52

Sample wt/vol: 30.0 (g/mL) G Lab File ID:_____

% Moisture: 47 decanted: (Y/N) __ Date Received: 06/09/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:06/09/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/21/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.2 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	62	U
11104-28-2	Aroclor-1221	62	U
11141-16-5	Aroclor-1232	62	U
53469-21-9	Aroclor-1242	280	
12672-29-6	Aroclor-1248	62	U
11097-69-1	Aroclor-1254	130	P
11096-82-5	Aroclor-1260	85	
	Surrogate amount spiked	12.58	

FORM I PCB

Quantitation Report

Data File : F:\HPCHEM\HP\15\DATA\06_20_01\15062073.D\ECD1A.CH Vial: 69
Acq On : 21 Jun 2001 13:01 Operator: DDC
Sample : 46732.52 *E30Z7 * Inst : HP_15
Misc : *EPA*30G/5.0ML*47 Dilution: 1.00
IntFile : events.e

Data File : F:\HPCHEM\HP\15\DATA\06_20_01\15062073.D\ECD2B.CH Vial: 69
Acq On : 21 Jun 2001 13:01 Operator: DDC
Sample : 46732.52 Inst : HP_15
Misc : Dilution: 1.00
IntFile : events2.e
Quant Time: Jun 21 14:03 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	7.58	7.35	432452	424640	10.8	11.5	
	Spiked Amount 12.579			Recovery	=	85.86%	91.43%	
2)	S DCB	18.28	18.68	417493	389224	10.1	10.3	
	Spiked Amount 12.579			Recovery	=	80.30%	81.89%	
	Target Compounds:							
7)	L4 Aroclor-1242	8.42	10.39	100252	179941	108.4	401.6	#
8)	L4 Aroclor-1242 {2}	9.76f	0.00	272659	0	438.0	N.D. d	#
9)	L4 Aroclor-1242 {3}	0.00	12.40	0	185912	N.D. d	434.0	#
10)	L4 Aroclor-1242 {4}	11.64	12.63	266136	127103	291.3m	260.4	
	Sum Aroclor-1242			639047	492956	837.7	1096.0	
	Average Aroclor-1242					279.234	365.319	
12)	L6 Aroclor-1254	0.00	12.30	0	247655	N.D. d	430.8	#
14)	L6 Aroclor-1254 {3}	13.78	0.00	243797	0	148.6	N.D.	#
15)	L6 Aroclor-1254 {4}	14.31	14.92	190430	171824	129.5	146.0	
16)	L6 Aroclor-1254 {5}	14.99	15.38	140163	203938	113.3	140.2	
	Sum Aroclor-1254			574390	623418	391.4	717.0	
	Average Aroclor-1254					130.462	239.001	
17)	L7 Aroclor-1260	14.31	0.00	190430	0	73.6	N.D. d	#
18)	L7 Aroclor-1260 {2}	14.80	14.72	323427	423824	93.0	185.6	#
19)	L7 Aroclor-1260 {3}	15.25	14.92	341429	171824	102.9	63.6	#
21)	L7 Aroclor-1260 {5}	16.16	16.32	264762	166521	70.3	44.3	#
	Sum Aroclor-1260			1120049	762170	213.7	184.6	
	Average Aroclor-1260					84.957	97.824	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

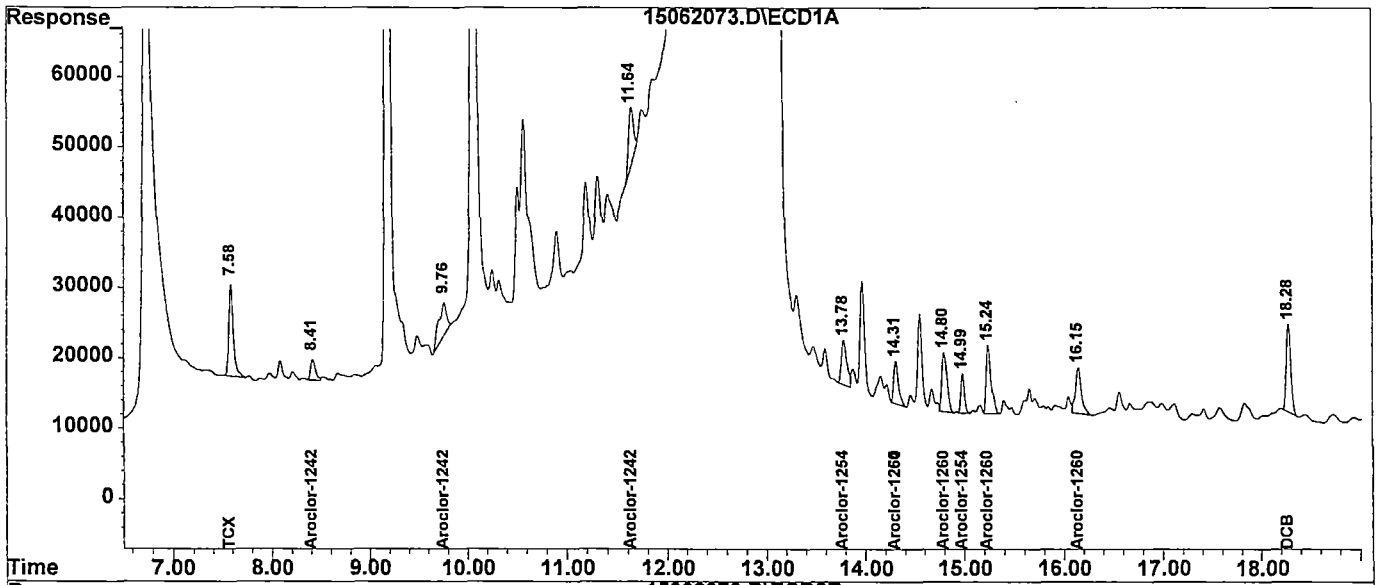
Chromatographic Report

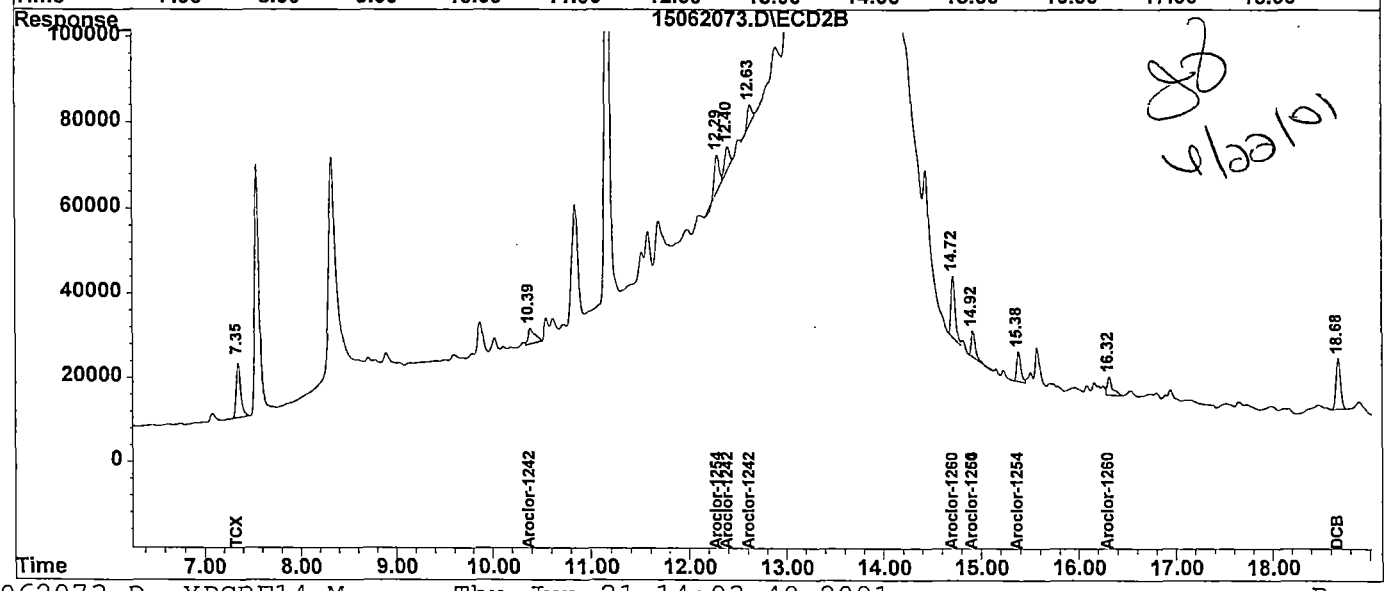
Data File : F:\HPCHEM\HP\15\DATA\06_20_01\15062073.D\ECD1A.CH Vial: 69
Acq On : 21 Jun 2001 13:01 Operator: DDC
Sample : 46732.52 *E30Z7 * Inst : HP_15
Misc : *EPA*30G/5.0ML*47 Dilution: 1.00
IntFile : events.e

Data File : F:\HPCHEM\HP\15\DATA\06_20_01\15062073.D\ECD2B.CH Vial: 69
Acq On : 21 Jun 2001 13:01 Operator: DDC
Sample : 46732.52 Inst : HP_15
Misc : Dilution: 1.00
IntFile : events2.e
Quant Time: Jun 21 14:03 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

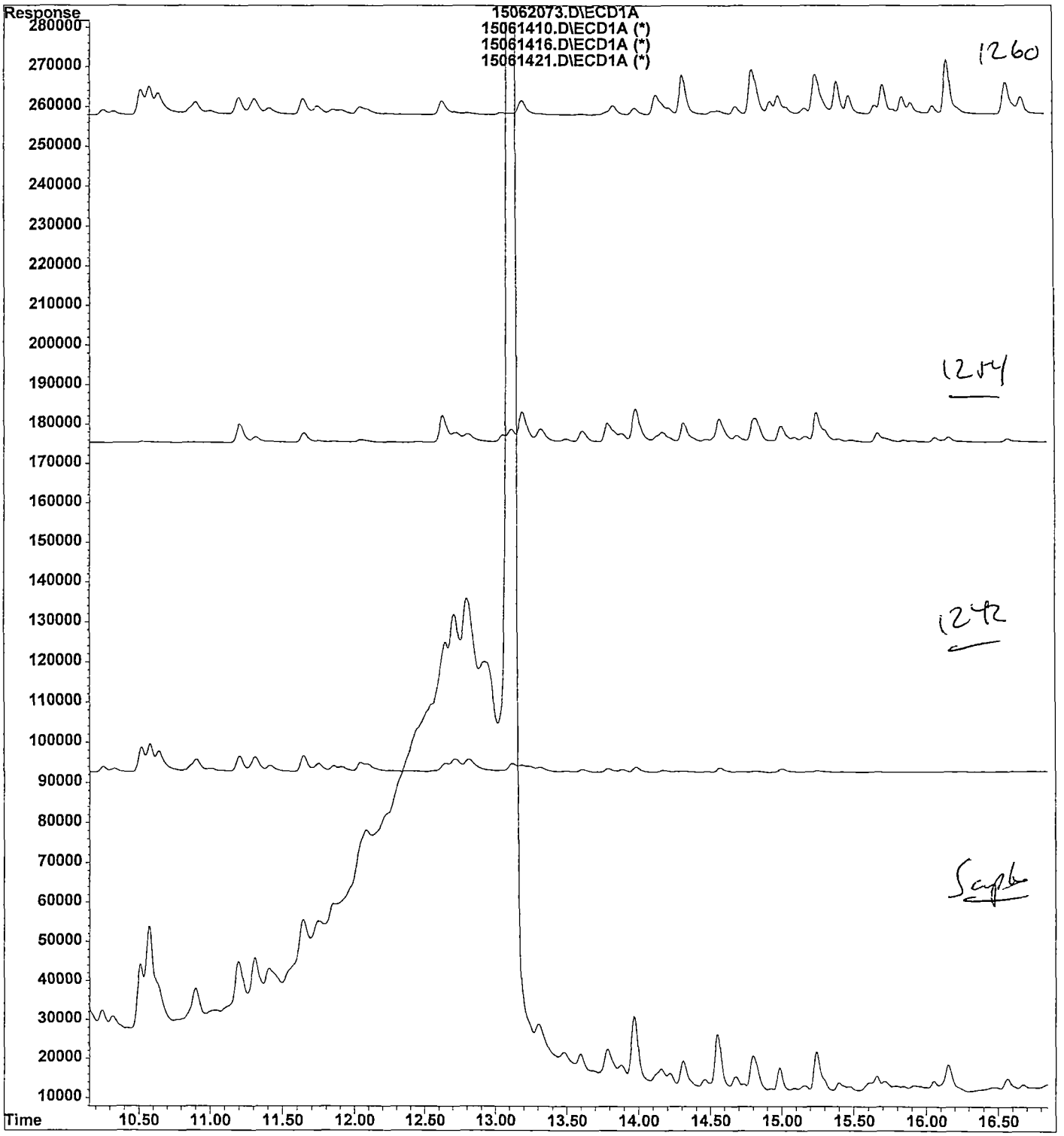
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





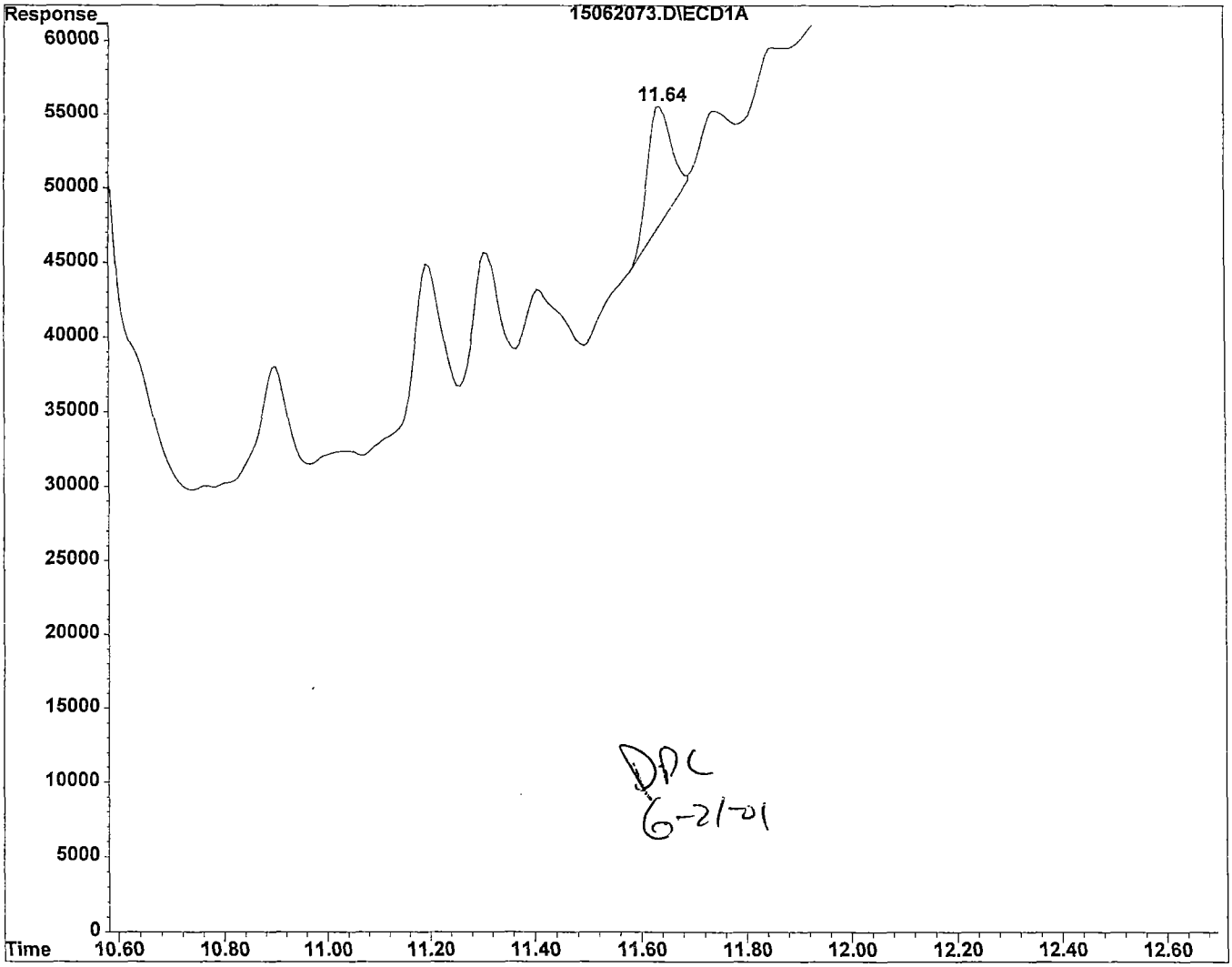
6/22/01

File : F:\HPCHEM\HP\15\DATA\06_20_01\15062073.D
Operator : DDC
Acquired : 21 Jun 2001 13:01 using AcqMethod OLM03.M
Instrument : HP_15
Sample Name: 46732.52
Misc Info :
Vial Number: 69



MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\15\DATA\06_20_01\15062073.D
Date Acquired: 21 Jun 2001 13:01
Inst: HP_15 Operator ID: DDC
Name: 46732.52 *E30Z7 *
Misc: *EPA*30G/5.0ML*47
Method: F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title: PCB/TOXAPHENE
Quant Time: Jun 21 14:03 2001 Quant Results File: XPCBF14.RES



Aroclor-1242 {4} 11.64min area: 266136 m

Integration Time Range: 11.58 - 11.70

F:\HPCHEM\HP\15\DATA\06_20_01\15062073.D
Report generated: Thu Jun 21 14:15:57 2001

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_20_01\15062073.D\ECD1A.CH Vial: 69
Signal #2 : F:\HPCHEM\HP\15\DATA\06_20_01\15062073.D\ECD2B.CH
Acq On : 21 Jun 2001 13:01 Operator: DDC
Sample : 46732.52 *E30Z7 * Inst : HP_15
Misc : *EPA*30G/5.0ML*47 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 21 14:03 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	7.58	7.35	432452	424640	10.8	11.5	
	Spiked Amount 12.579			Recovery	=	85.86%	91.43%	
22)	S DCB	18.28	18.68	417493	389224	10.1	10.3	
	Spiked Amount 12.579			Recovery	=	80.30%	81.89%	
	Target Compounds:							
7)	L4 Aroclor-1242	8.42	10.39	100252	179941	108.4 DDC 6-22-01	401.6	#
^)	L4 Aroclor-1242 {2}	9.76f	0.00	272659	0	438.0	N.D. d	#
,	L4 Aroclor-1242 {3}	0.00	12.40	0	185912	N.D. d	434.0	#
10)	L4 Aroclor-1242 {4}	11.64	12.63	266136	127103	291.3m	260.4	
	Sum Aroclor-1242			639047	492956	837.7	1096.0	
Average Aroclor-1242						279.234	365.319	
12)	L6 Aroclor-1254	0.00	12.30	0	247655	N.D. d	430.8	#
14)	L6 Aroclor-1254 {3}	13.78	0.00	243797	0	148.6	N.D.	#
15)	L6 Aroclor-1254 {4}	14.31	14.92	190430	171824	129.5	146.0	
16)	L6 Aroclor-1254 {5}	14.99	15.38	140163	203938	113.3	140.2	
	Sum Aroclor-1254			574390	623418	391.4	717.0	
Average Aroclor-1254						130.462	239.001	
17)	L7 Aroclor-1260	14.31	0.00	190430	0	73.6	N.D. d	#
18)	L7 Aroclor-1260 {2}	14.80	14.72	323427	423824	93.0	185.6	#
19)	L7 Aroclor-1260 {3}	15.25	14.92	341429	171824	102.9	63.6	#
21)	L7 Aroclor-1260 {5}	16.16	16.32	264762	166521	70.3	44.3	#
	Sum Aroclor-1260			1120049	762170	213.7	184.6	
Average Aroclor-1260						84.957	97.824	

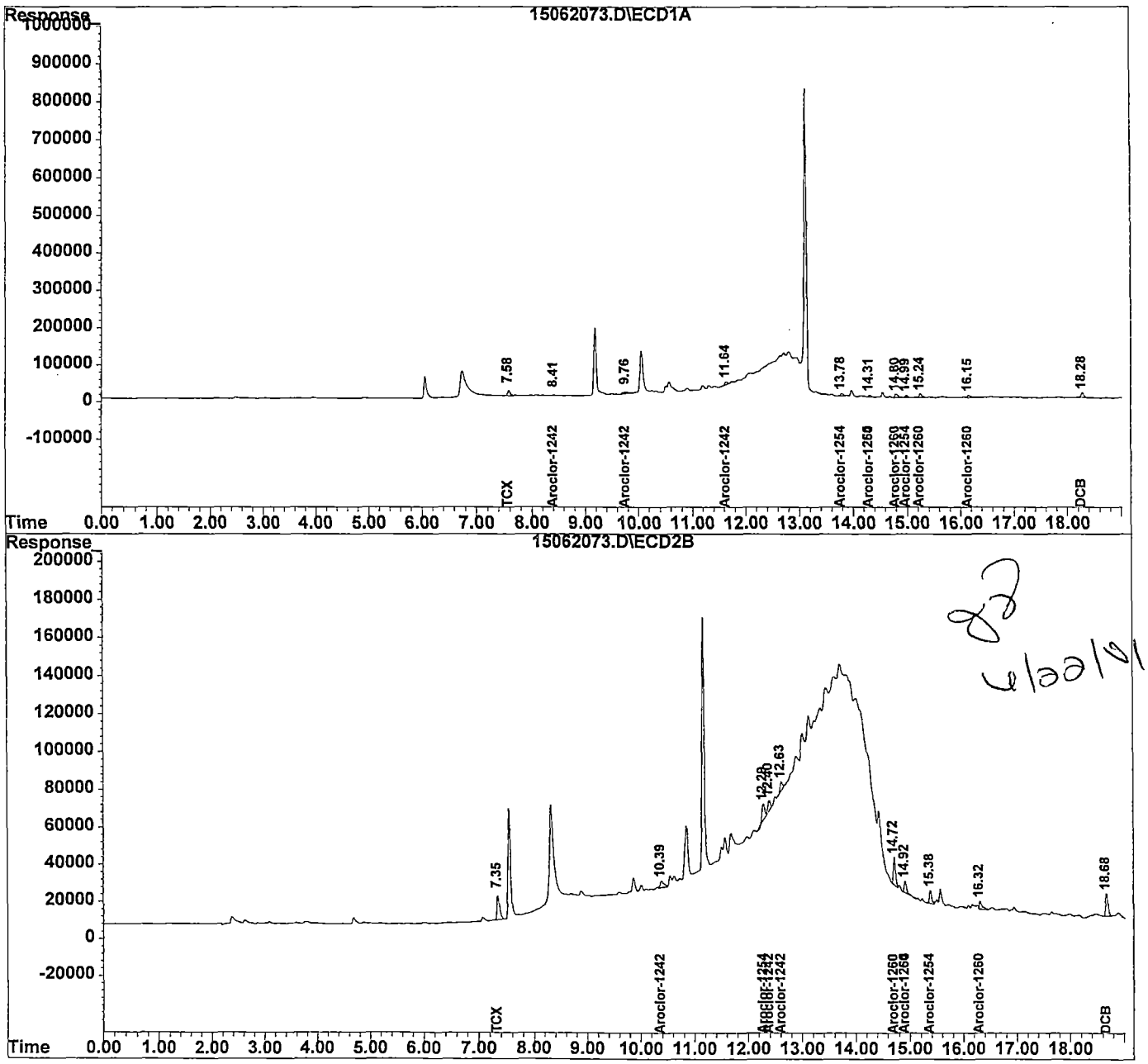
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_20_01\15062073.D\ECD1A.CH Vial: 69
Signal #2 : F:\HPCHEM\HP\15\DATA\06_20_01\15062073.D\ECD2B.CH
Acq On : 21 Jun 2001 13:01 Operator: DDC
Sample : 46732.52 *E30Z7 * Inst : HP_15
Misc : *EPA*30G/5.0ML*47 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 21 14:03 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B



8?
6/22/01

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E30Z8

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30W6

Matrix: (soil/water) SOIL Lab Sample ID: 46732.53

Sample wt/vol: 30.1 (g/mL) G Lab File ID:_____

% Moisture: 27 decanted: (Y/N) __ Date Received: 06/09/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:06/09/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/21/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	45	U
11104-28-2	Aroclor-1221	45	U
11141-16-5	Aroclor-1232	45	U
53469-21-9	Aroclor-1242	45	U
12672-29-6	Aroclor-1248	45	U
11097-69-1	Aroclor-1254	45	U
11096-82-5	Aroclor-1260	45	U
	Surrogate amount spiked	9.10	

Quantitation Report

Data File : F:\HPCHEM\HP\15\DATA\06_20_01\15062074.D\ECD1A.CH Vial: 70
Acq On : 21 Jun 2001 13:24 Operator: DDC
Sample : 46732.53 *E30Z8 * Inst : HP_15
Misc : *EPA*30.1G/5.0ML*27 Dilution: 1.00
IntFile : events.e

Data File : F:\HPCHEM\HP\15\DATA\06_20_01\15062074.D\ECD2B.CH Vial: 70
Acq On : 21 Jun 2001 13:24 Operator: DDC
Sample : 46732.53 Inst : HP_15
Misc : Dilution: 1.00
IntFile : events2.e
Quant Time: Jun 21 14:03 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.59	7.35	365340	336241	6.629	6.604
	Spiked Amount 9.102			Recovery	=	72.83%	72.55%
	S DCB	18.28	18.68	377203	355091	6.624	6.820
	Spiked Amount 9.102			Recovery	=	72.77%	74.93%
	Target Compounds:						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

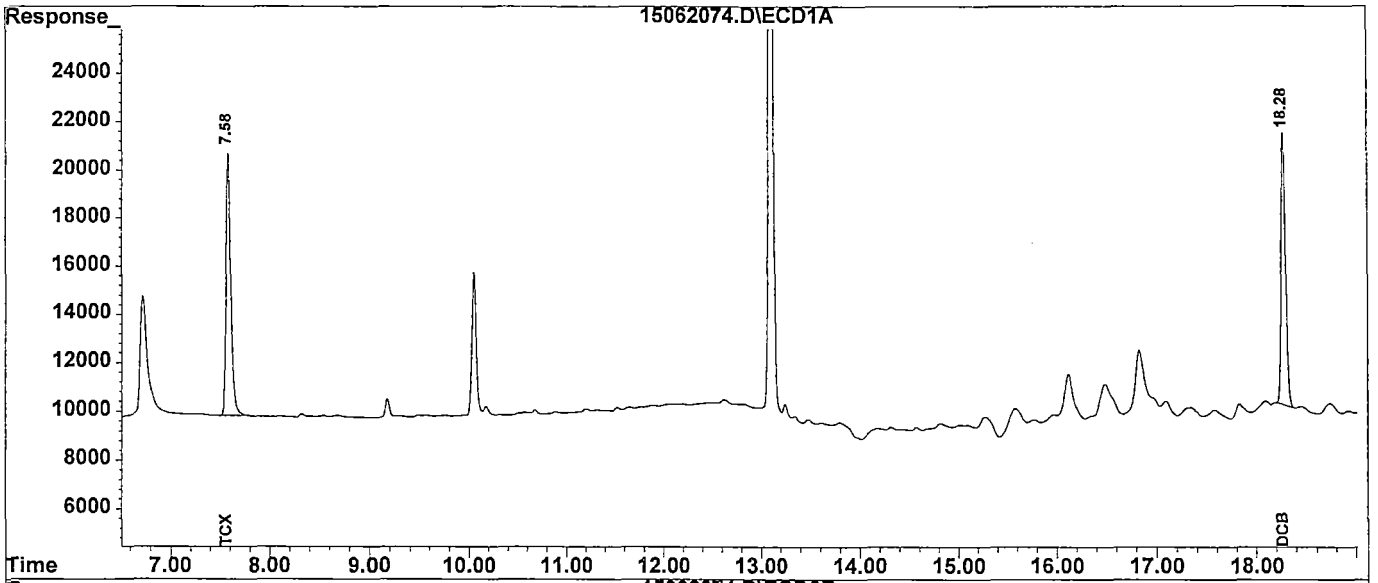
Chromatographic Report

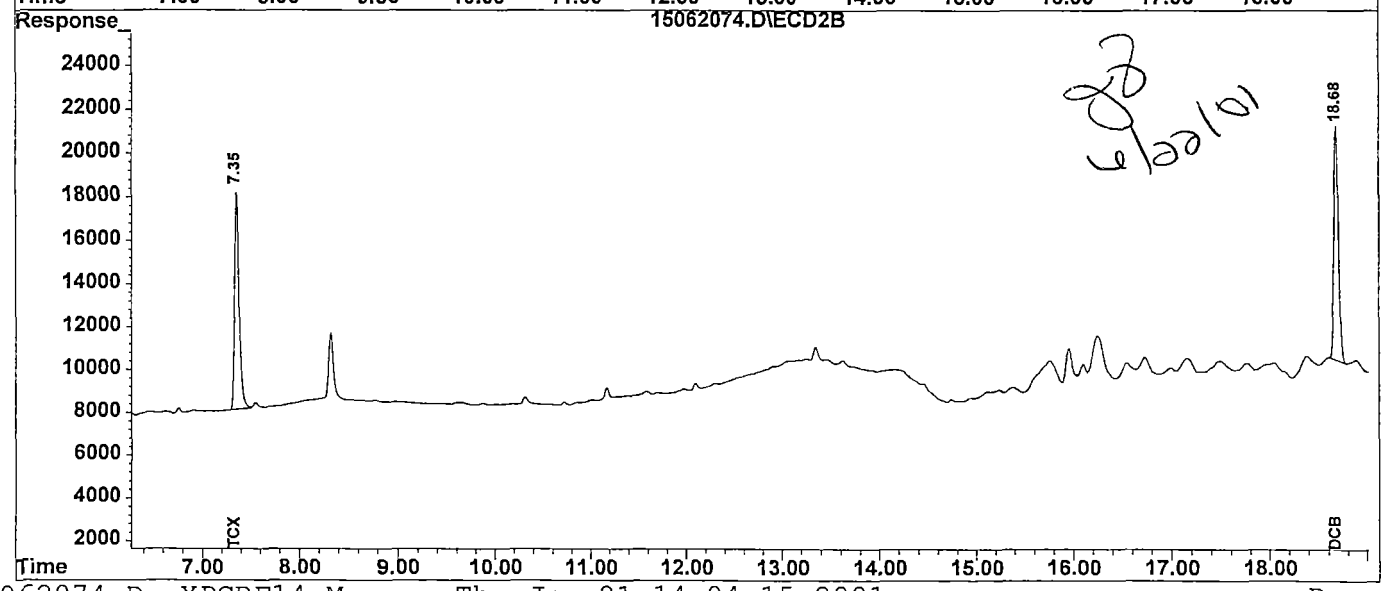
Data File : F:\HPCHEM\HP\15\DATA\06_20_01\15062074.D\ECD1A.CH Vial: 70
Acq On : 21 Jun 2001 13:24 Operator: DDC
Sample : 46732.53 *E30Z8 * Inst : HP_15
Misc : *EPA*30.1G/5.0ML*27 Dilution: 1.00
IntFile : events.e

Data File : F:\HPCHEM\HP\15\DATA\06_20_01\15062074.D\ECD2B.CH Vial: 70
Acq On : 21 Jun 2001 13:24 Operator: DDC
Sample : 46732.53 Inst : HP_15
Misc : Dilution: 1.00
IntFile : events2.e
Quant Time: Jun 21 14:03 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/22/01

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E30Z9

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30W6

Matrix: (soil/water) SOIL Lab Sample ID: 46732.54

Sample wt/vol: 30.8 (g/mL) G Lab File ID:_____

% Moisture: 44 decanted: (Y/N) __ Date Received: 06/09/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:06/09/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/21/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.3 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	57	U
11104-28-2	Aroclor-1221	57	U
11141-16-5	Aroclor-1232	57	U
53469-21-9	Aroclor-1242	57	U
12672-29-6	Aroclor-1248	57	U
11097-69-1	Aroclor-1254	57	U
11096-82-5	Aroclor-1260	57	U
	Surrogate amount spiked	11.60	

FORM I PCB

Quantitation Report

```
Data File : F:\HPCHEM\HP\15\DATA\06_20_01\15062081.D\ECD1A.CH Vial: 77
Acq On    : 21 Jun 2001  16:06                        Operator: DDC
Sample    : 46732.54  *E30Z9  *                       Inst    : HP_15
Misc      : *EPA*30.8G/5.0ML*44                       Dilution: 1.00
IntFile   : events.e

Data File : F:\HPCHEM\HP\15\DATA\06_20_01\15062081.D\ECD2B.CH Vial: 77
Acq On    : 21 Jun 2001  16:06                        Operator: DDC
Sample    : 46732.54                                  Inst    : HP_15
Misc      :                                           Dilution: 1.00
IntFile   : events2.e
Quant Time: Jun 21 21:34 2001  Quant Results File: XPCBF14.RES

Method       : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path   : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update  : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj.     : 0.5uL
Signal #1 Phase : DB-17MS          Signal #2 Phase: DB-XLB
Signal #1 Info  : .32 mm           Signal #2 Info : .32 mm
Signal #1 Inst  : HP_15A           Signal #2 Inst : HP_15B
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.59	7.35	379342	351239	8.769	8.788
	Spiked Amount 11.596			Recovery	=	75.62%	75.79%
	S DCB	18.28	18.68	297811	288141	6.663	7.051
	Spiked Amount 11.596			Recovery	=	57.46%	60.81%
	Target Compounds:						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

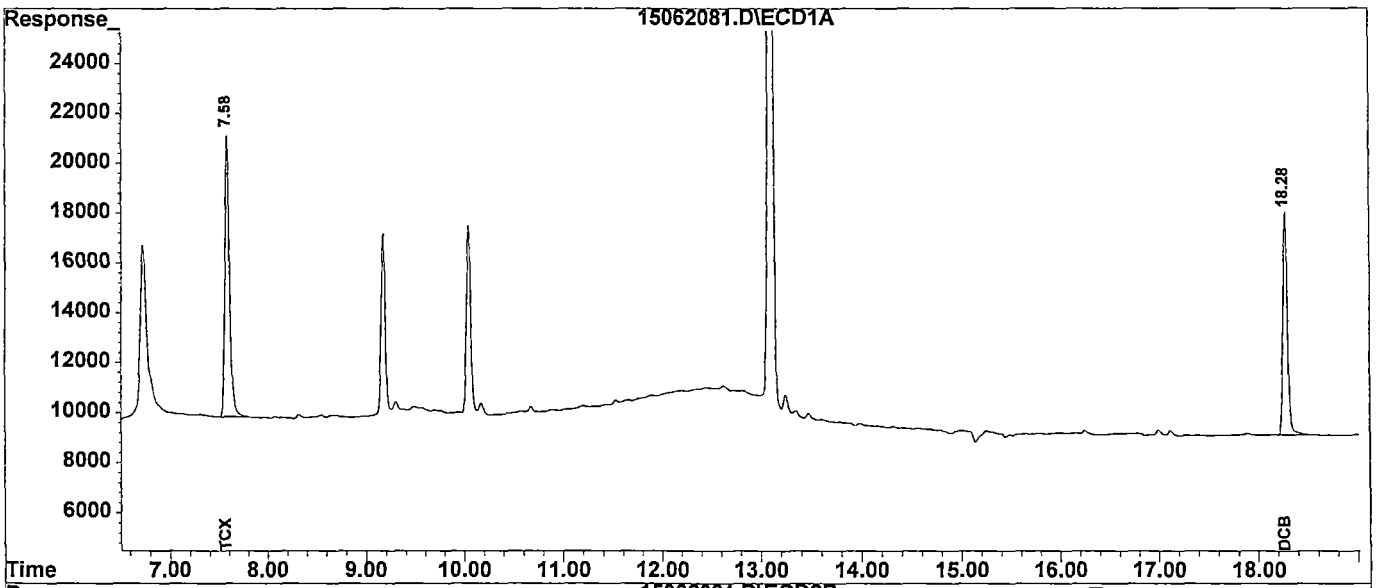
Chromatographic Report

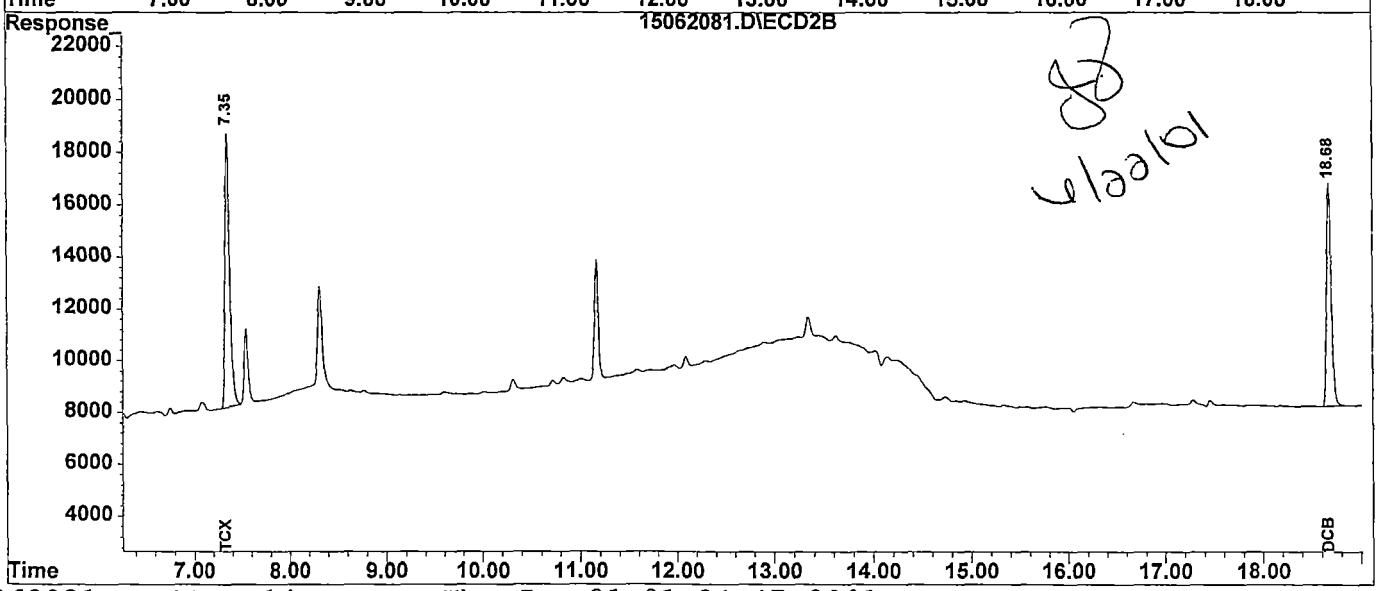
Data File : F:\HPCHEM\HP\15\DATA\06_20_01\15062081.D\ECD1A.CH Vial: 77
Acq On : 21 Jun 2001 16:06 Operator: DDC
Sample : 46732.54 *E30Z9 * Inst : HP_15
Misc : *EPA*30.8G/5.0ML*44 Dilution: 1.00
IntFile : events.e

Data File : F:\HPCHEM\HP\15\DATA\06_20_01\15062081.D\ECD2B.CH Vial: 77
Acq On : 21 Jun 2001 16:06 Operator: DDC
Sample : 46732.54 Inst : HP_15
Misc : Dilution: 1.00
IntFile : events2.e
Quant Time: Jun 21 21:34 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





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1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E3100

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30W6

Matrix: (soil/water) SOIL Lab Sample ID: 46732.55

Sample wt/vol: 30.3 (g/mL) G Lab File ID:_____

% Moisture: 73 decanted: (Y/N) __ Date Received: 06/09/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:06/09/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/21/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	120	U
11104-28-2	Aroclor-1221	120	U
11141-16-5	Aroclor-1232	120	U
53469-21-9	Aroclor-1242	530	
12672-29-6	Aroclor-1248	120	U
11097-69-1	Aroclor-1254	300	P
11096-82-5	Aroclor-1260	120	P
Surrogate amount spiked		24.44	

Quantitation Report

Data File : F:\HPCHEM\HP\15\DATA\06_20_01\15062082.D\ECD1A.CH Vial: 78
Acq On : 21 Jun 2001 16:29 Operator: DDC
Sample : 46732.55 *E3100 * Inst : HP_15
Misc : *EPA*30.3G/5.0ML*73 Dilution: 1.00
IntFile : events.e

Data File : F:\HPCHEM\HP\15\DATA\06_20_01\15062082.D\ECD2B.CH Vial: 78
Acq On : 21 Jun 2001 16:29 Operator: DDC
Sample : 46732.55 Inst : HP_15
Misc : Dilution: 1.00
IntFile : events2.e
Quant Time: Jun 21 21:36 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	7.59	7.35	334318	328073	16.3	17.3	
	Spiked Amount 24.447			Recovery	=	66.68%	70.77%	
	S DCB	18.28	18.68	402143	347503	19.0	17.9	
	Spiked Amount 24.447			Recovery	=	77.72%	73.22%	
	Target Compounds:							
7)	L4 Aroclor-1242	8.42	10.40	64384	107504	135.2	466.3	#
8)	L4 Aroclor-1242 {2}	9.76f	0.00	188827	0	589.6	N.D. d	#
9)	L4 Aroclor-1242 {3}	10.58f	12.40	738364	174461	889.3	791.6	
10)	L4 Aroclor-1242 {4}	11.64	12.63	235046	164442	500.1	654.7	#
11)	L4 Aroclor-1242 {5}	0.00	13.14	0	316943	N.D. d	902.4	#
	Sum Aroclor-1242			1226621	763350	2114.2	2814.9	
	Average Aroclor-1242					528.542	703.734	
13)	L6 Aroclor-1254 {2}	13.31	13.02	186603	276070	307.4	710.1	#
14)	L6 Aroclor-1254 {3}	13.79	0.00	272868	0	323.3	N.D. d	#
15)	L6 Aroclor-1254 {4}	14.31	14.92	236640	244075	312.7	403.1	#
16)	L6 Aroclor-1254 {5}	14.99	15.39	156771	222616	246.3	297.4	
	Sum Aroclor-1254			852882	742760	1189.7	1410.7	
	Average Aroclor-1254					297.413	470.229	
17)	L7 Aroclor-1260	14.31	0.00	236640	0	177.8	N.D. d	#
18)	L7 Aroclor-1260 {2}	14.80	0.00	406821	0	227.4	N.D. d	#
19)	L7 Aroclor-1260 {3}	15.25	14.92	428846	244075	251.3	175.5	#
20)	L7 Aroclor-1260 {4}	0.00	16.09	0	66476	N.D. d	83.3	#
21)	L7 Aroclor-1260 {5}	16.16	16.32	209924	198425	108.3	102.6	
	Sum Aroclor-1260			1282232	508976	934.8	441.8	
	Average Aroclor-1260					191.183	120.476	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

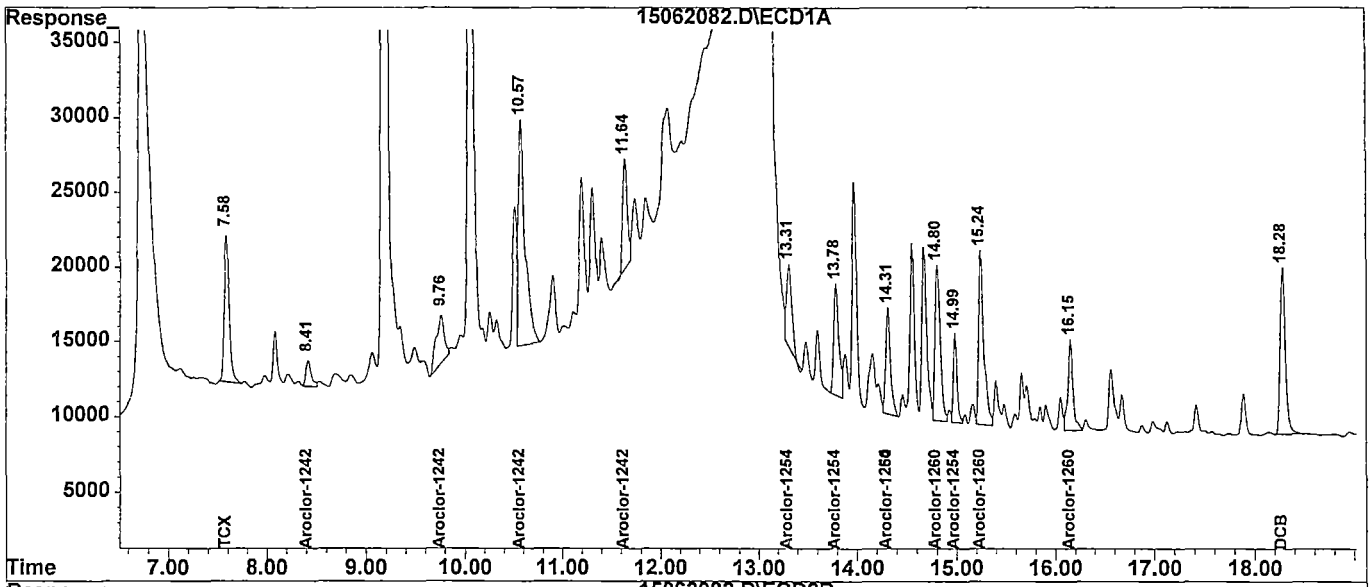
Chromatographic Report

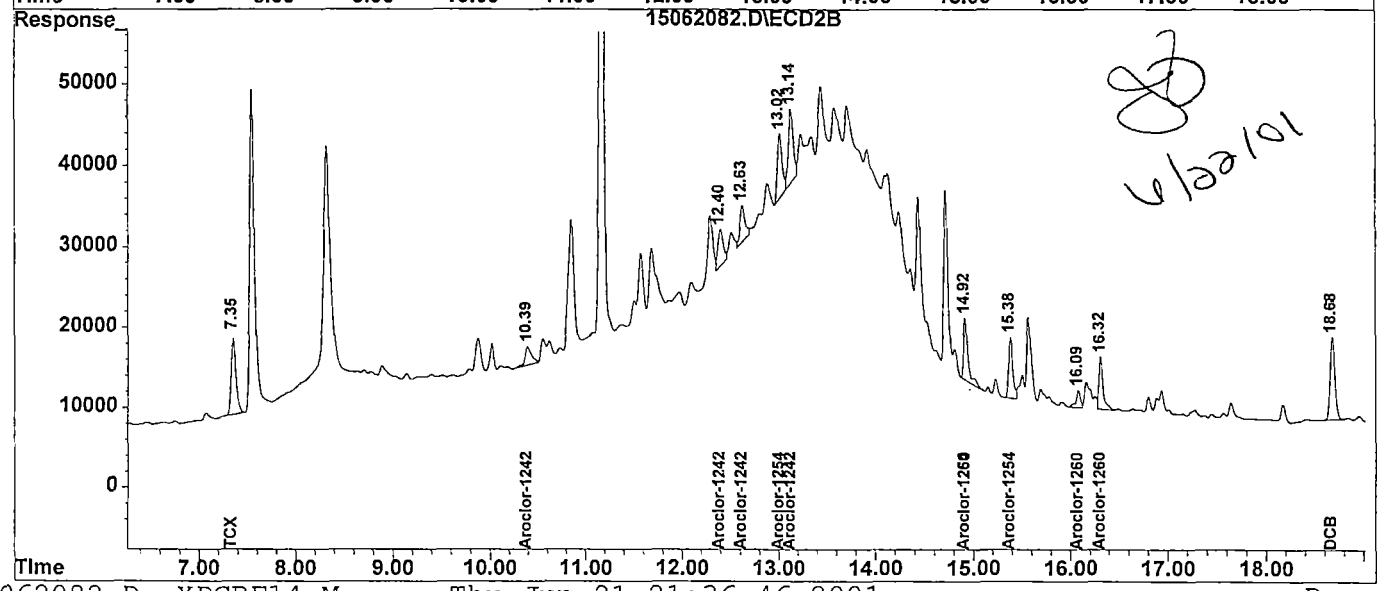
Data File : F:\HPCHEM\HP\15\DATA\06_20_01\15062082.D\ECD1A.CH Vial: 78
Acq On : 21 Jun 2001 16:29 Operator: DDC
Sample : 46732.55 *E3100 * Inst : HP_15
Misc : *EPA*30.3G/5.0ML*73 Dilution: 1.00
IntFile : events.e

Data File : F:\HPCHEM\HP\15\DATA\06_20_01\15062082.D\ECD2B.CH Vial: 78
Acq On : 21 Jun 2001 16:29 Operator: DDC
Sample : 46732.55 Inst : HP_15
Misc : Dilution: 1.00
IntFile : events2.e
Quant Time: Jun 21 21:36 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

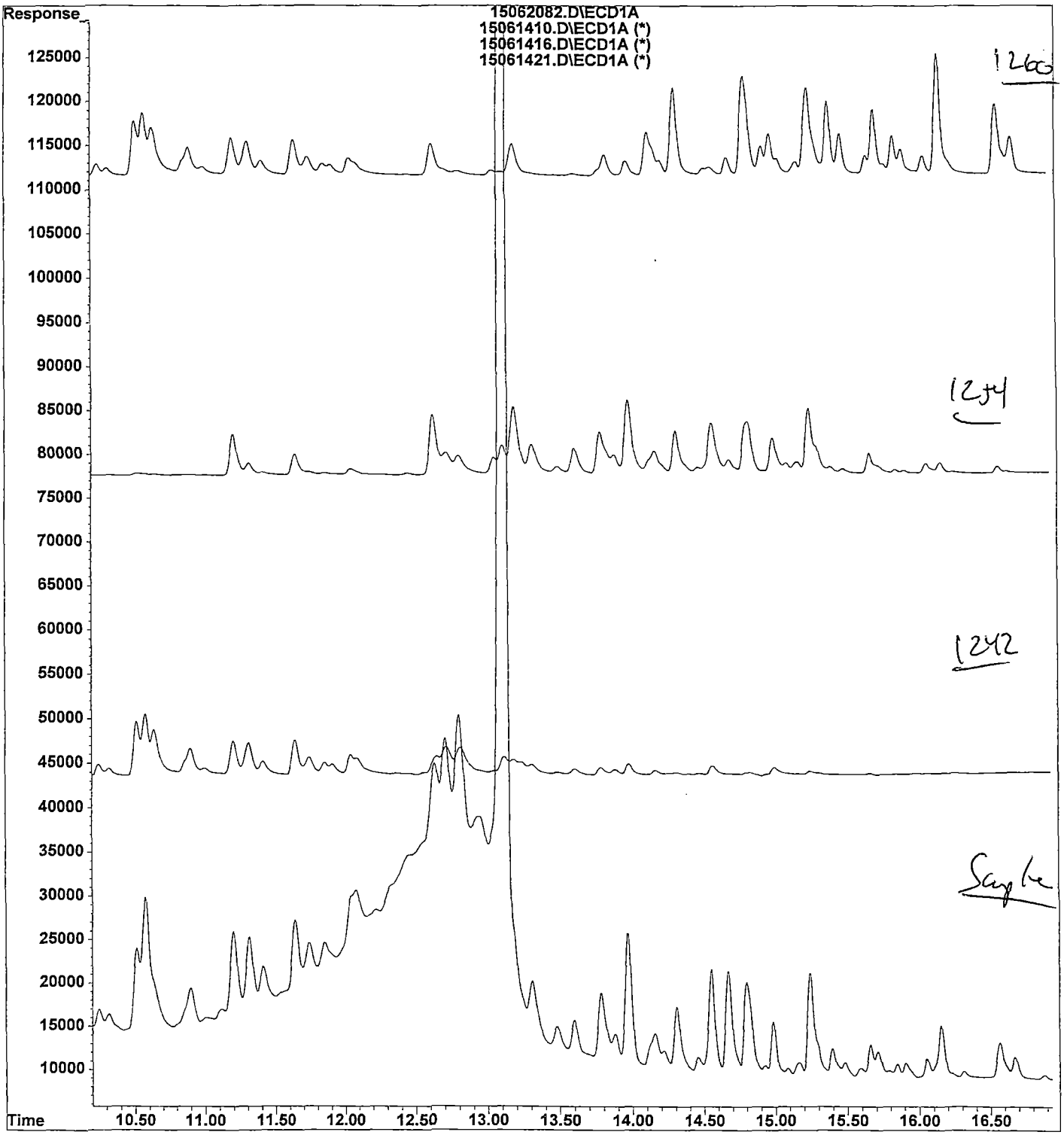
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/22/01

File : F:\HPCHEM\HP\15\DATA\06_20_01\15062082.D
Operator : DDC
Acquired : 21 Jun 2001 16:29 using AcqMethod OLM03.M
Instrument : HP_15
Sample Name: 46732.55
Misc Info :
Vial Number: 78



Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_20_01\15062082.D\ECD1A.CH Vial: 78
Signal #2 : F:\HPCHEM\HP\15\DATA\06_20_01\15062082.D\ECD2B.CH
Acq On : 21 Jun 2001 16:29 Operator: DDC
Sample : 46732.55 *E3100 * Inst : HP_15
Misc : *EPA*30.3G/5.0ML*73 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 21 21:36 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	7.59	7.35	334318	328073	16.3	17.3	
	Spiked Amount 24.447			Recovery	=	66.68%	70.77%	
22)	S DCB	18.28	18.68	402143	347503	19.0	17.9	
	Spiked Amount 24.447			Recovery	=	77.72%	73.22%	
	Target Compounds:							
7)	L4 Aroclor-1242	8.42	10.40	64384	107504	135.2	466.3	#
	L4 Aroclor-1242 {2}	9.76f	0.00	188827	0	589.6	N.D. d	#
	L4 Aroclor-1242 {3}	10.58f	12.40	738364	174461	889.3	791.6	
10)	L4 Aroclor-1242 {4}	11.64	12.63	235046	164442	500.1	654.7	#
11)	L4 Aroclor-1242 {5}	0.00	13.14	0	316943	N.D. d	902.4	#
	Sum Aroclor-1242			1226621	763350	2114.2	2814.9	
	Average Aroclor-1242					528.542	703.734	
13)	L6 Aroclor-1254 {2}	13.31	13.02	186603	276070	307.4	710.1	#
14)	L6 Aroclor-1254 {3}	13.79	0.00	272868	0	323.3	N.D. d	#
15)	L6 Aroclor-1254 {4}	14.31	14.92	236640	244075	312.7	403.1	#
16)	L6 Aroclor-1254 {5}	14.99	15.39	156771	222616	246.3	297.4	
	Sum Aroclor-1254			852882	742760	1189.7	1410.7	
	Average Aroclor-1254					297.413	470.229	
17)	L7 Aroclor-1260	14.31	0.00	236640	0	177.8	N.D. d	#
18)	L7 Aroclor-1260 {2}	14.80	0.00	406821	0	227.4	N.D. d	#
19)	L7 Aroclor-1260 {3}	15.25	14.92	428846	244075	251.3	175.5	#
20)	L7 Aroclor-1260 {4}	0.00	16.09	0	66476	N.D. d	83.3	#
21)	L7 Aroclor-1260 {5}	16.16	16.32	209924	198425	108.3	102.6	
	Sum Aroclor-1260			1282232	508976	934.8	441.8	
	Average Aroclor-1260					191.183	120.476	

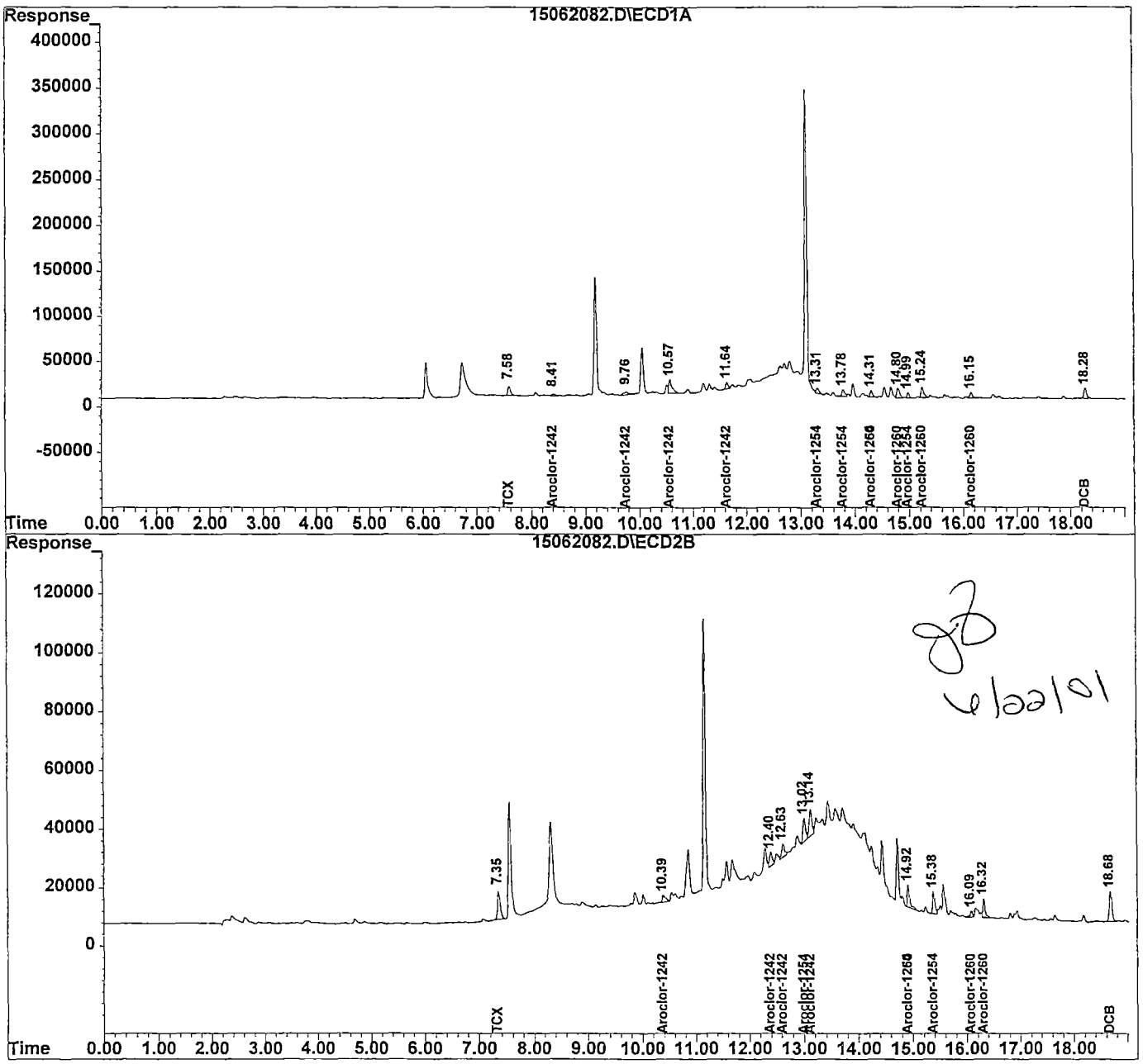
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_20_01\15062082.D\ECD1A.CH Vial: 78
Signal #2 : F:\HPCHEM\HP\15\DATA\06_20_01\15062082.D\ECD2B.CH
Acq On : 21 Jun 2001 16:29 Operator: DDC
Sample : 46732.55 *E3100 * Inst : HP_15
Misc : *EPA*30.3G/5.0ML*73 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 21 21:36 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B



1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E3101

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30W6

Matrix: (soil/water) SOIL Lab Sample ID: 46732.56

Sample wt/vol: 31.0 (g/mL) G Lab File ID:_____

% Moisture: 73 decanted: (Y/N) __ Date Received: 06/09/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:06/09/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/21/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.6 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	120	U
11104-28-2	Aroclor-1221	120	U
11141-16-5	Aroclor-1232	120	U
53469-21-9	Aroclor-1242	400	
12672-29-6	Aroclor-1248	120	U
11097-69-1	Aroclor-1254	380	
11096-82-5	Aroclor-1260	110	J
	Surrogate amount spiked	23.90	

FORM I PCB

Quantitation Report

Data File : F:\HPCHEM\HP\15\DATA\06_20_01\15062083.D\ECD1A.CH Vial: 79
Acq On : 21 Jun 2001 16:52 Operator: DDC
Sample : 46732.56 *E3101 * Inst : HP_15
Misc : *EPA*31G/5.0ML*73 Dilution: 1.00
IntFile : events.e

Data File : F:\HPCHEM\HP\15\DATA\06_20_01\15062083.D\ECD2B.CH Vial: 79
Acq On : 21 Jun 2001 16:52 Operator: DDC
Sample : 46732.56 Inst : HP_15
Misc : Dilution: 1.00
IntFile : events2.e
Quant Time: Jun 21 21:38 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

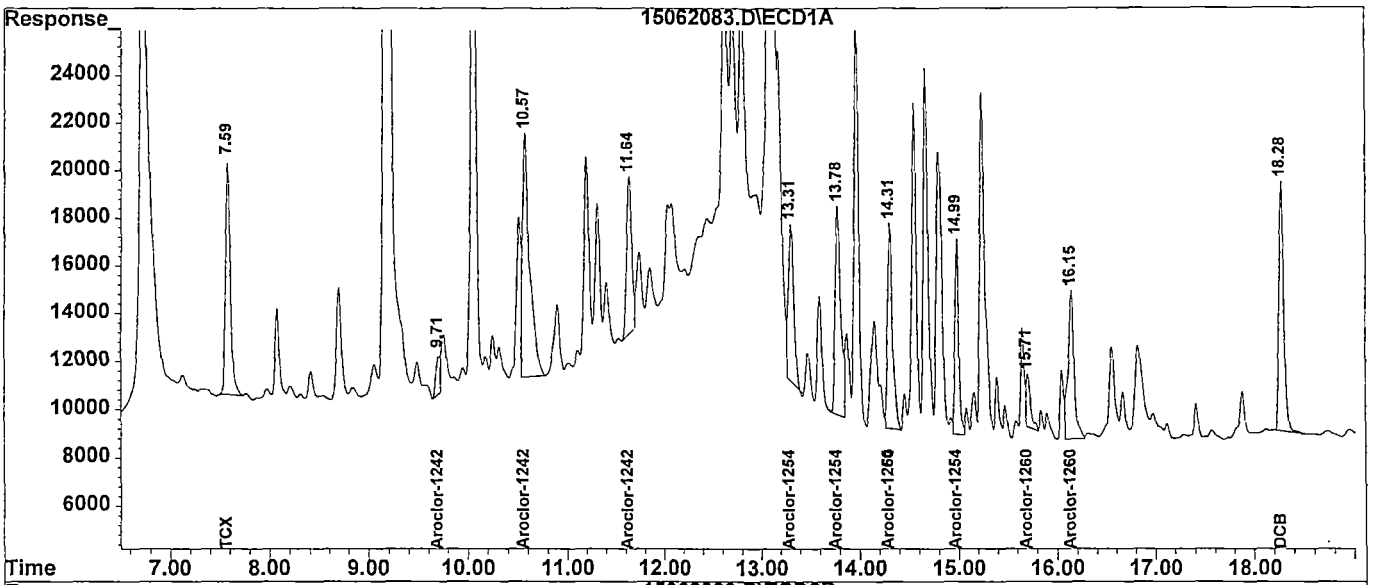
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

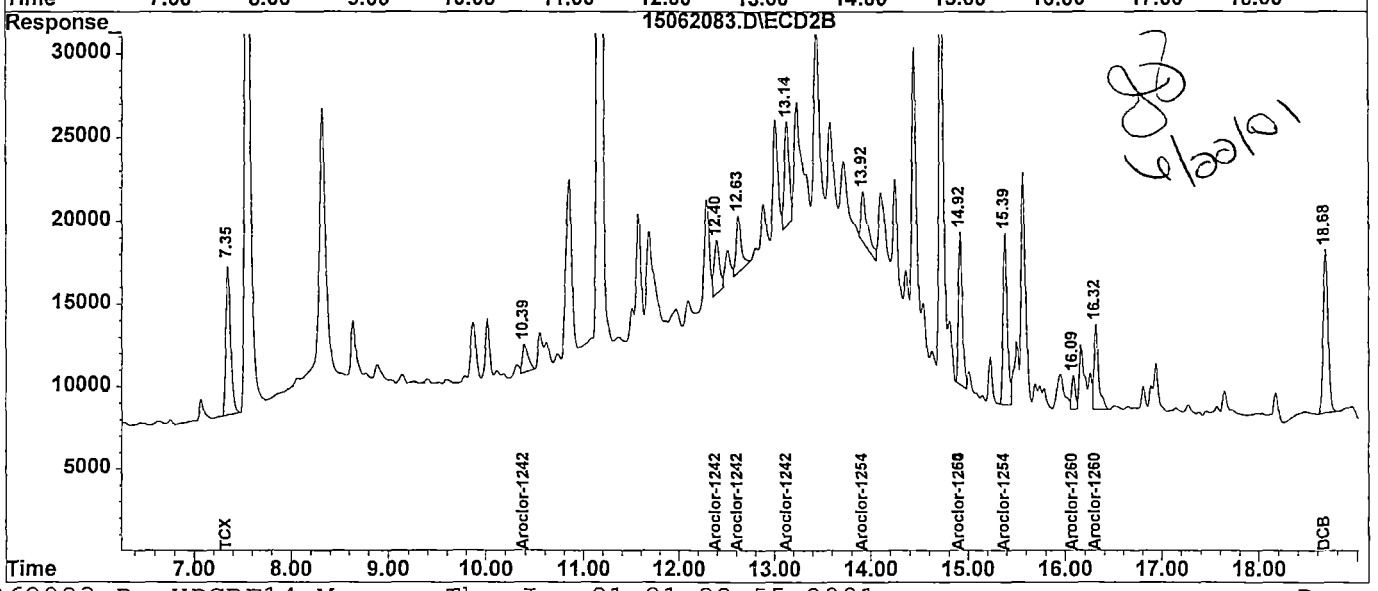
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
System Monitoring Compounds:						
1) S TCX	7.59	7.35	330809	305613	15.8	15.8
Spiked Amount 23.895			Recovery	=	66.12%	66.12%
S DCB	18.28	18.68	355993	334808	16.4	16.9
Spiked Amount 23.895			Recovery	=	68.63%	70.73%
Target Compounds:						
7) L4 Aroclor-1242	0.00	10.40	0	70822	N.D. d	300.2 #
8) L4 Aroclor-1242 {2}	9.71	0.00	41218	0	125.8	N.D. d #
9) L4 Aroclor-1242 {3}	10.58f	12.40	519974	124215	612.1	550.9
10) L4 Aroclor-1242 {4}	11.64	12.63	226116	127286	470.2	495.3
11) L4 Aroclor-1242 {5}	0.00	13.14	0	215076	N.D. d	598.5 #
Sum Aroclor-1242			787307	537399	1208.1	1945.0
Average Aroclor-1242					402.706	486.238
13) L6 Aroclor-1254 {2}	13.31	0.00	248332	0	399.8	N.D. d #
14) L6 Aroclor-1254 {3}	13.78	13.93	332442	147512	385.0	339.9
15) L6 Aroclor-1254 {4}	14.31	14.92	294374	258498	380.2	417.3
16) L6 Aroclor-1254 {5}	14.99	15.39	220219	304283	338.1	397.4
Sum Aroclor-1254			1095368	710293	1503.2	1154.6
Average Aroclor-1254					375.788	384.860
17) L7 Aroclor-1260	14.31	0.00	294374	0	216.2	N.D. d #
19) L7 Aroclor-1260 {3}	0.00	14.92	0	258498	N.D. d	181.7 #
20) L7 Aroclor-1260 {4}	15.72	16.09	69926	52315	70.1	64.1
21) L7 Aroclor-1260 {5}	16.16	16.32	252079	168138	127.1	85.0 #
Sum Aroclor-1260			616380	478952	493.9	395.2
Average Aroclor-1260					137.809	110.253

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

Chromatographic Report

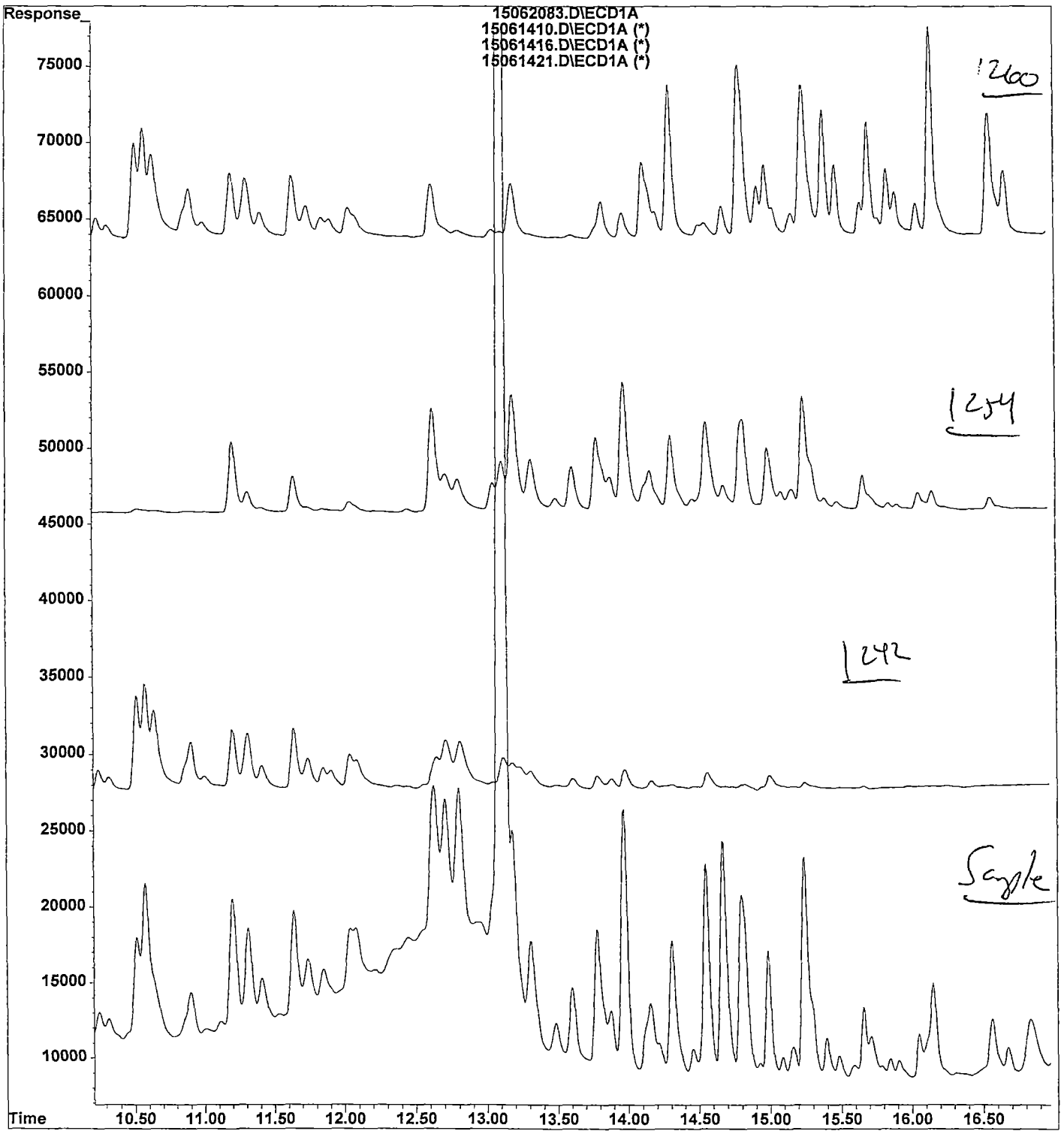
```
Data File : F:\HPCHEM\HP\15\DATA\06_20_01\15062083.D\ECD1A.CH Vial: 79
Acq On    : 21 Jun 2001  16:52                          Operator: DDC
Sample    : 46732.56  *E3101  *                         Inst    : HP_15
Misc      : *EPA*31G/5.0ML*73                           Dilution: 1.00
IntFile   : events.e

Data File : F:\HPCHEM\HP\15\DATA\06_20_01\15062083.D\ECD2B.CH Vial: 79
Acq On    : 21 Jun 2001  16:52                          Operator: DDC
Sample    : 46732.56                                    Inst    : HP_15
Misc      :                                             Dilution: 1.00
IntFile   : events2.e
Quant Time: Jun 21 21:38 2001  Quant Results File: XPCBF14.RES

Method       : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path   : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update  : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj.      : 0.5uL
Signal #1 Phase  : DB-17MS          Signal #2 Phase: DB-XLB
Signal #1 Info   : .32 mm           Signal #2 Info : .32 mm
Signal #1 Inst   : HP_15A           Signal #2 Inst : HP_15B
```





6/20/01

File : F:\HPCHEM\HP\15\DATA\06_20_01\15062083.D
Operator : DDC
Acquired : 21 Jun 2001 16:52 using AcqMethod OLM03.M
Instrument : HP_15
Sample Name: 46732.56
Misc Info :
Vial Number: 79



Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_20_01\15062083.D\ECD1A.CH Vial: 79
Signal #2 : F:\HPCHEM\HP\15\DATA\06_20_01\15062083.D\ECD2B.CH
Acq On : 21 Jun 2001 16:52 Operator: DDC
Sample : 46732.56 *E3101 * Inst : HP_15
Misc : *EPA*31G/5.0ML*73 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 21 21:38 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	7.59	7.35	330809	305613	15.8	15.8	
	Spiked Amount 23.895			Recovery	=	66.12%	66.12%	
22)	S DCB	18.28	18.68	355993	334808	16.4	16.9	
	Spiked Amount 23.895			Recovery	=	68.63%	70.73%	
	Target Compounds:							
7)	L4 Aroclor-1242	0.00	10.40	0	70822	N.D. d	300.2	#
	L4 Aroclor-1242 {2}	9.71	0.00	41218	0	125.8	N.D. d	#
	L4 Aroclor-1242 {3}	10.58f	12.40	519974	124215	612.1	550.9	
10)	L4 Aroclor-1242 {4}	11.64	12.63	226116	127286	470.2	495.3	
11)	L4 Aroclor-1242 {5}	0.00	13.14	0	215076	N.D. d	598.5	#
	Sum Aroclor-1242			787307	537399	1208.1	1945.0	
	Average Aroclor-1242					402.706	486.238	
13)	L6 Aroclor-1254 {2}	13.31	0.00	248332	0	399.8	N.D. d	#
14)	L6 Aroclor-1254 {3}	13.78	13.93	332442	147512	385.0	339.9	
15)	L6 Aroclor-1254 {4}	14.31	14.92	294374	258498	380.2	417.3	
16)	L6 Aroclor-1254 {5}	14.99	15.39	220219	304283	338.1	397.4	
	Sum Aroclor-1254			1095368	710293	1503.2	1154.6	
	Average Aroclor-1254					375.788	384.860	
17)	L7 Aroclor-1260	14.31	0.00	294374	0	216.2	N.D. d	#
19)	L7 Aroclor-1260 {3}	0.00	14.92	0	258498	N.D. d	181.7	#
20)	L7 Aroclor-1260 {4}	15.72	16.09	69926	52315	70.1	64.1	
21)	L7 Aroclor-1260 {5}	16.16	16.32	252079	168138	127.1	85.0	#
	Sum Aroclor-1260			616380	478952	493.9	395.2	
	Average Aroclor-1260					137.809	110.253	

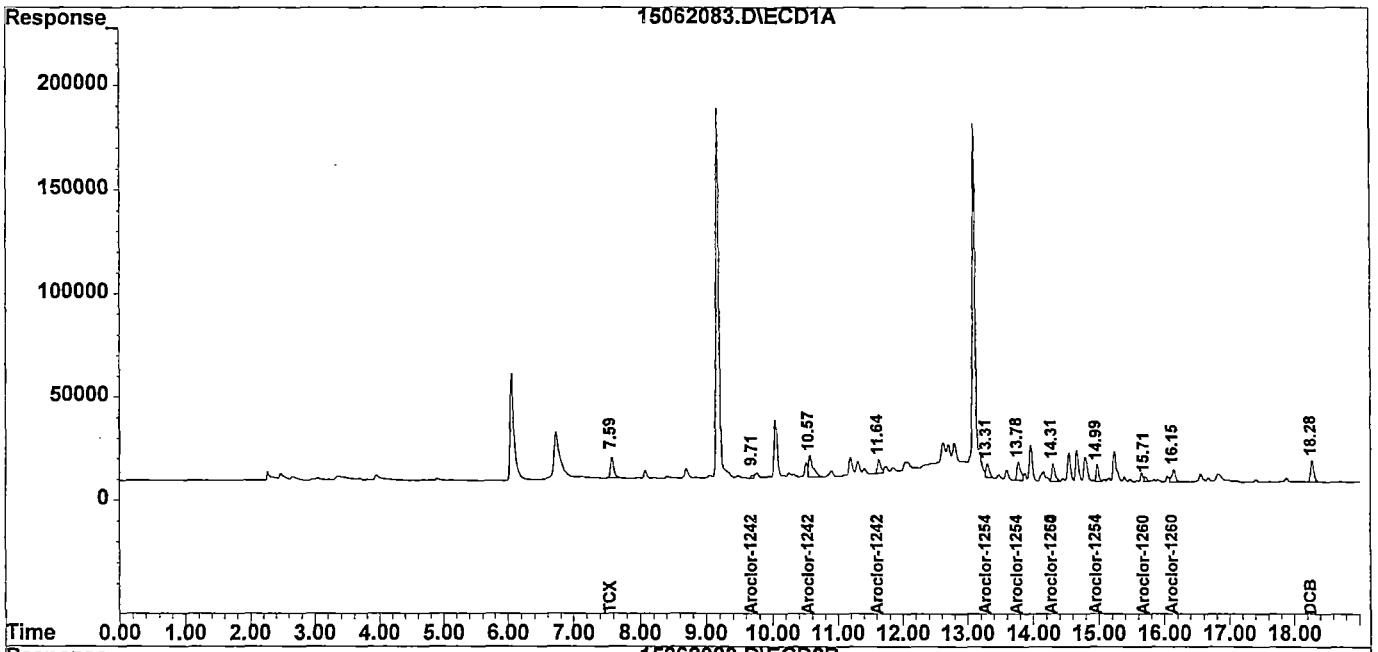
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

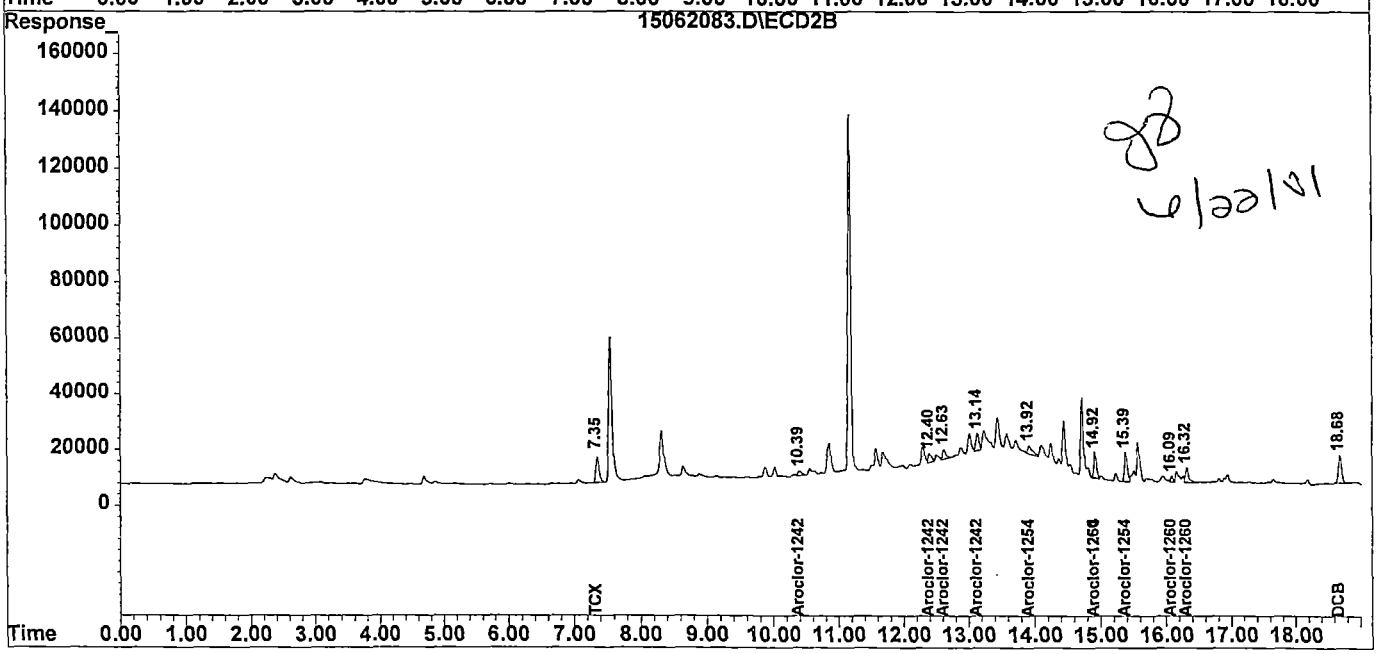
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_20_01\15062083.D\ECD1A.CH Vial: 79
Signal #2 : F:\HPCHEM\HP\15\DATA\06_20_01\15062083.D\ECD2B.CH
Acq On : 21 Jun 2001 16:52 Operator: DDC
Sample : 46732.56 *E3101 * Inst : HP_15
Misc : *EPA*31G/5.0ML*73 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 21 21:38 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/22/01

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E3102

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30W6

Matrix: (soil/water) SOIL Lab Sample ID: 46732.57

Sample wt/vol: 30.0 (g/mL) G Lab File ID:_____

% Moisture: 86 decanted: (Y/N) __ Date Received: 06/09/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:06/09/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/21/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.1 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	240	U
11104-28-2	Aroclor-1221	240	U
11141-16-5	Aroclor-1232	240	U
53469-21-9	Aroclor-1242	240	U
12672-29-6	Aroclor-1248	240	U
11097-69-1	Aroclor-1254	240	U
11096-82-5	Aroclor-1260	240	U
	Surrogate amount spiked	47.61	

Quantitation Report

Data File : F:\HPCHEM\HP\15\DATA\06_20_01\15062084.D\ECD1A.CH Vial: 80
Acq On : 21 Jun 2001 17:15 Operator: DDC
Sample : 46732.57 *E3102 * Inst : HP_15
Misc : *EPA*30G/5.0ML*86 Dilution: 1.00
IntFile : events.e

Data File : F:\HPCHEM\HP\15\DATA\06_20_01\15062084.D\ECD2B.CH Vial: 80
Acq On : 21 Jun 2001 17:15 Operator: DDC
Sample : 46732.57 Inst : HP_15
Misc : Dilution: 1.00
IntFile : events2.e
Quant Time: Jun 21 21:39 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.59	7.35	365728	335042	34.7	34.4
	Spiked Amount 47.619			Recovery =		72.87%	72.24%
	S DCB	18.28	18.68	360736	364111	33.1	36.6
	Spiked Amount 47.619			Recovery =		69.51%	76.86%
	Target Compounds:						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

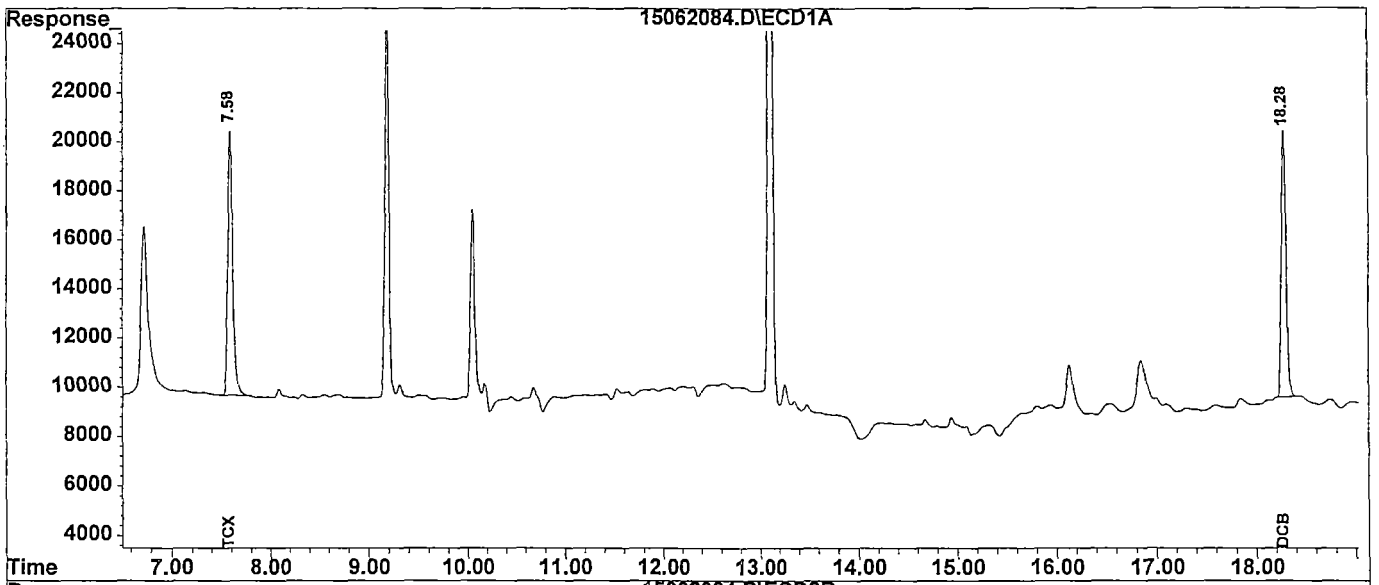
Chromatographic Report

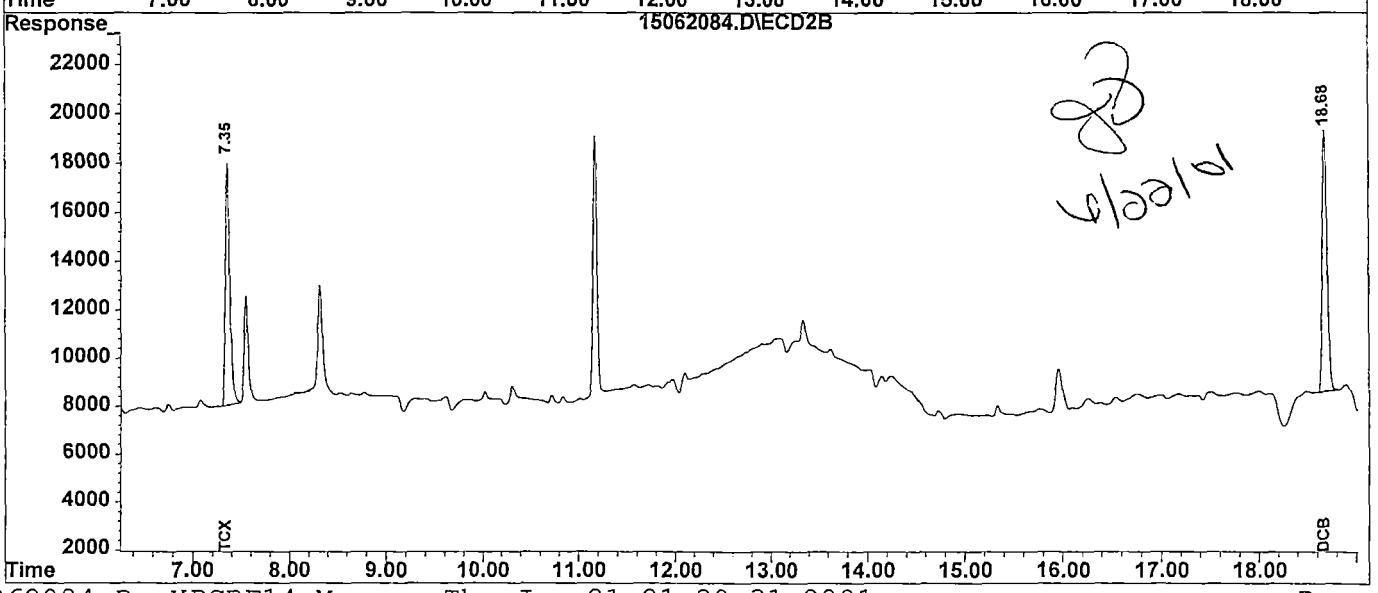
Data File : F:\HPCHEM\HP\15\DATA\06_20_01\15062084.D\ECD1A.CH Vial: 80
Acq On : 21 Jun 2001 17:15 Operator: DDC
Sample : 46732.57 *E3102 * Inst : HP_15
Misc : *EPA*30G/5.0ML*86 Dilution: 1.00
IntFile : events.e

Data File : F:\HPCHEM\HP\15\DATA\06_20_01\15062084.D\ECD2B.CH Vial: 80
Acq On : 21 Jun 2001 17:15 Operator: DDC
Sample : 46732.57 Inst : HP_15
Misc : Dilution: 1.00
IntFile : events2.e
Quant Time: Jun 21 21:39 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/22/01

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E3103

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30W6

Matrix: (soil/water) SOIL Lab Sample ID: 46732.58

Sample wt/vol: 30.7 (g/mL) G Lab File ID:_____

% Moisture: 73 decanted: (Y/N) __ Date Received: 06/09/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:06/09/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/21/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	120	U
11104-28-2	Aroclor-1221	120	U
11141-16-5	Aroclor-1232	120	U
53469-21-9	Aroclor-1242	120	U
12672-29-6	Aroclor-1248	120	U
11097-69-1	Aroclor-1254	120	U
11096-82-5	Aroclor-1260	120	U
	Surrogate amount spiked	24.12	

Quantitation Report

Data File : F:\HPCHEM\HP\15\DATA\06_20_01\15062085.D\ECD1A.CH Vial: 81
Acq On : 21 Jun 2001 17:39 Operator: DDC
Sample : 46732.58 *E3103 * Inst : HP_15
Misc : *EPA*30.7G/5.0ML*73 Dilution: 1.00
IntFile : events.e

Data File : F:\HPCHEM\HP\15\DATA\06_20_01\15062085.D\ECD2B.CH Vial: 81
Acq On : 21 Jun 2001 17:39 Operator: DDC
Sample : 46732.58 Inst : HP_15
Misc : Dilution: 1.00
IntFile : events2.e
Quant Time: Jun 21 21:39 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.59	7.35	442110	406541	21.3	21.2
	Spiked Amount 24.128			Recovery	=	88.28%	87.86%
	S DCB	18.28	18.68	408947	392613	19.0	20.0
	Spiked Amount 24.128			Recovery	=	78.75%	82.89%

Target Compounds:

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

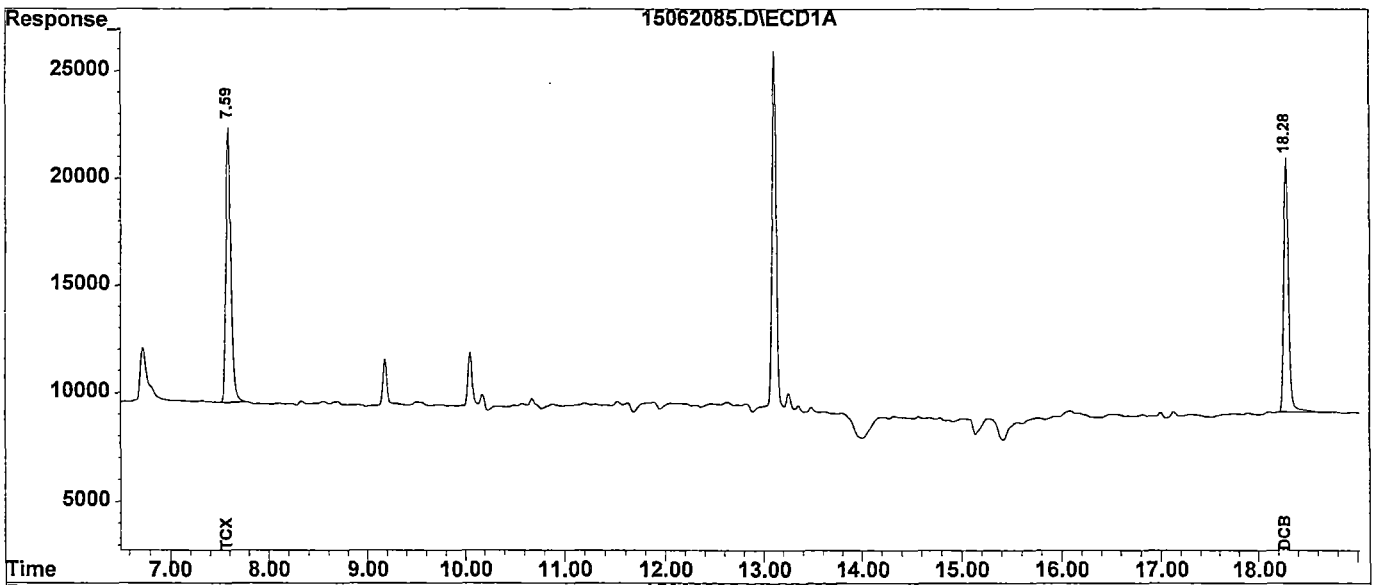
Chromatographic Report

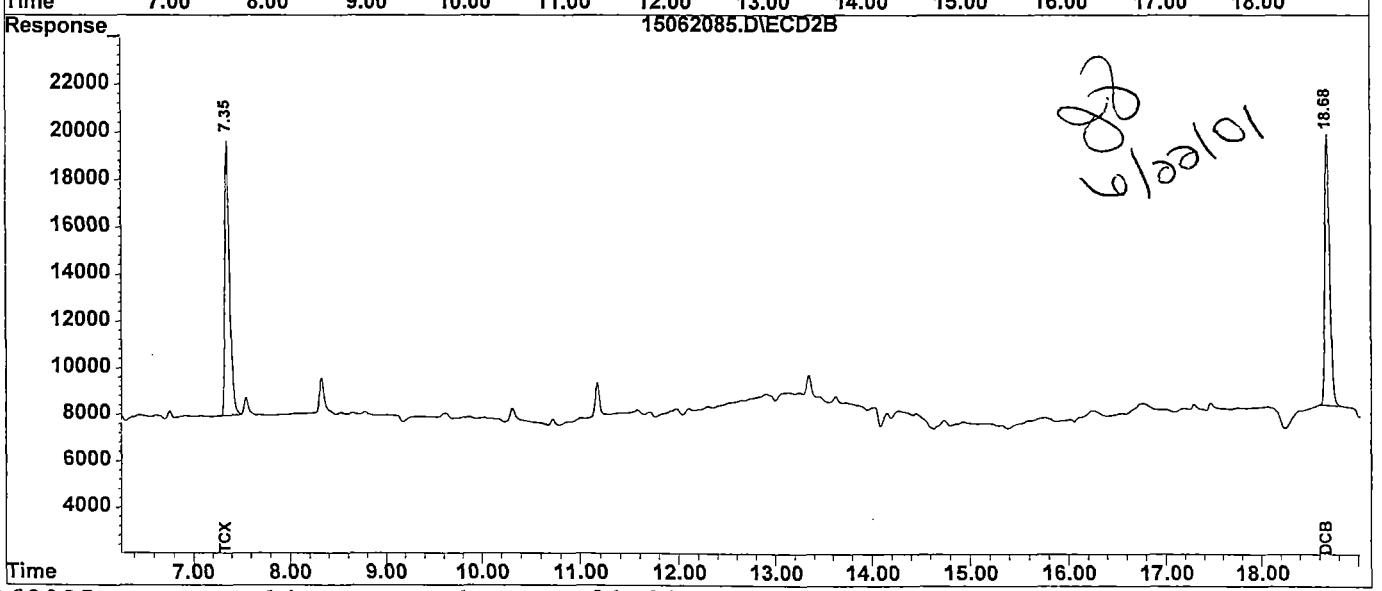
Data File : F:\HPCHEM\HP\15\DATA\06_20_01\15062085.D\ECD1A.CH Vial: 81
Acq On : 21 Jun 2001 17:39 Operator: DDC
Sample : 46732.58 *E3103 * Inst : HP_15
Misc : *EPA*30.7G/5.0ML*73 Dilution: 1.00
IntFile : events.e

Data File : F:\HPCHEM\HP\15\DATA\06_20_01\15062085.D\ECD2B.CH Vial: 81
Acq On : 21 Jun 2001 17:39 Operator: DDC
Sample : 46732.58 Inst : HP_15
Misc : Dilution: 1.00
IntFile : events2.e
Quant Time: Jun 21 21:39 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/22/01

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E3104

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30W6

Matrix: (soil/water) SOIL Lab Sample ID: 46732.59

Sample wt/vol: 30.3 (g/mL) G Lab File ID:_____

% Moisture: 77 decanted: (Y/N) __ Date Received: 06/09/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:06/09/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/21/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.3 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	140	U
11104-28-2	Aroclor-1221	140	U
11141-16-5	Aroclor-1232	140	U
53469-21-9	Aroclor-1242	590	
12672-29-6	Aroclor-1248	140	U
11097-69-1	Aroclor-1254	200	P
11096-82-5	Aroclor-1260	64	J
Surrogate amount spiked		28.70	

FORM I PCB

Quantitation Report

Data File : F:\HPCHEM\HP\15\DATA\06_20_01\15062086.D\ECD1A.CH Vial: 82
Acq On : 21 Jun 2001 18:02 Operator: DDC
Sample : 46732.59 *E3104 * Inst : HP_15
Misc : *EPA*30.3G/5.0ML*77 Dilution: 1.00
IntFile : events.e

Data File : F:\HPCHEM\HP\15\DATA\06_20_01\15062086.D\ECD2B.CH Vial: 82
Acq On : 21 Jun 2001 18:02 Operator: DDC
Sample : 46732.59 Inst : HP_15
Misc : Dilution: 1.00
IntFile : events2.e
Quant Time: Jun 21 21:41 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
System Monitoring Compounds:						
1) S TCX	7.59	7.35	372212	341150	21.3	21.1
Spiked Amount 28.699			Recovery	=	74.22%	73.52%
S DCB	18.28	18.69	369990	362293	20.5	21.9
Spiked Amount 28.699			Recovery	=	71.43%	76.31%
Target Compounds:						
7) L4 Aroclor-1242	0.00	10.40	0	72164	N.D. d	367.4 #
8) L4 Aroclor-1242 {2}	9.77f	0.00	125314	0	459.3	N.D. d #
9) L4 Aroclor-1242 {3}	10.58f	12.41	457101	124407	646.3	662.6
10) L4 Aroclor-1242 {4}	11.64	12.63	267811	160953	668.9	752.2
11) L4 Aroclor-1242 {5}	0.00	13.14	0	217092	N.D. d	725.6 #
Sum Aroclor-1242			850227	574616	1774.5	2507.9
Average Aroclor-1242					591.486	626.973
13) L6 Aroclor-1254 {2}	13.31	13.03	109967	164009	212.7	495.2 #
14) L6 Aroclor-1254 {3}	13.79	0.00	163076	0	226.8	N.D. d #
15) L6 Aroclor-1254 {4}	14.31	14.92	124961	121840	193.8	236.2
16) L6 Aroclor-1254 {5}	14.99	15.39	79979	108901	147.5	170.8
Sum Aroclor-1254			477984	394750	780.8	902.3
Average Aroclor-1254					195.200	300.761
17) L7 Aroclor-1260	14.31	0.00	124961	0	110.2	N.D. d #
19) L7 Aroclor-1260 {3}	0.00	14.92	0	121840	N.D. d	102.9 #
20) L7 Aroclor-1260 {4}	15.72	16.09	38234	24491	46.1	36.0
21) L7 Aroclor-1260 {5}	16.16	16.32	95198	90432	57.6	54.9
Sum Aroclor-1260			258393	236762	307.0	278.1
Average Aroclor-1260					71.310	64.593

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

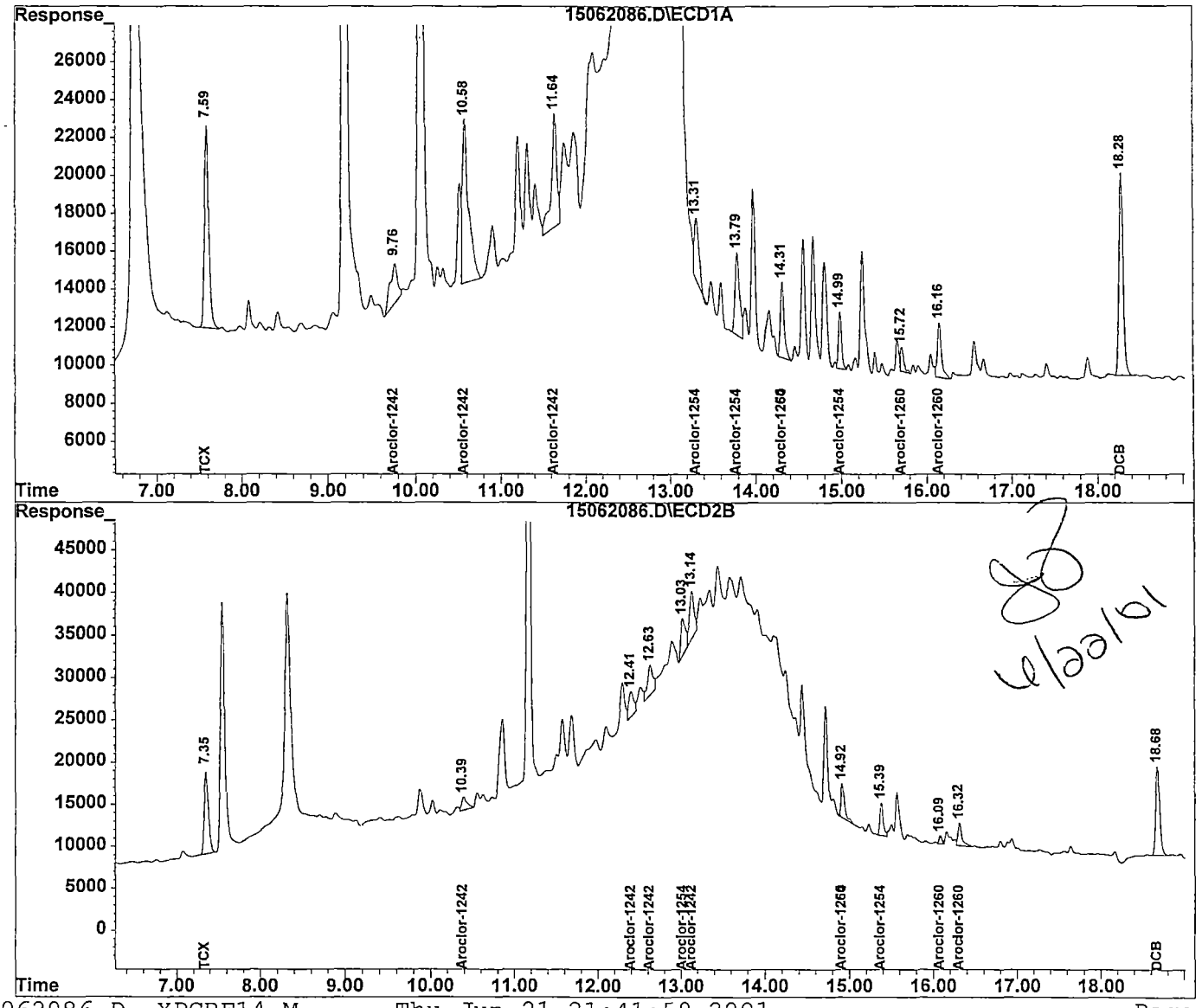
Chromatographic Report

Data File : F:\HPCHEM\HP\15\DATA\06_20_01\15062086.D\ECD1A.CH Vial: 82
Acq On : 21 Jun 2001 18:02 Operator: DDC
Sample : 46732.59 *E3104 * Inst : HP_15
Misc : *EPA*30.3G/5.0ML*77 Dilution: 1.00
IntFile : events.e

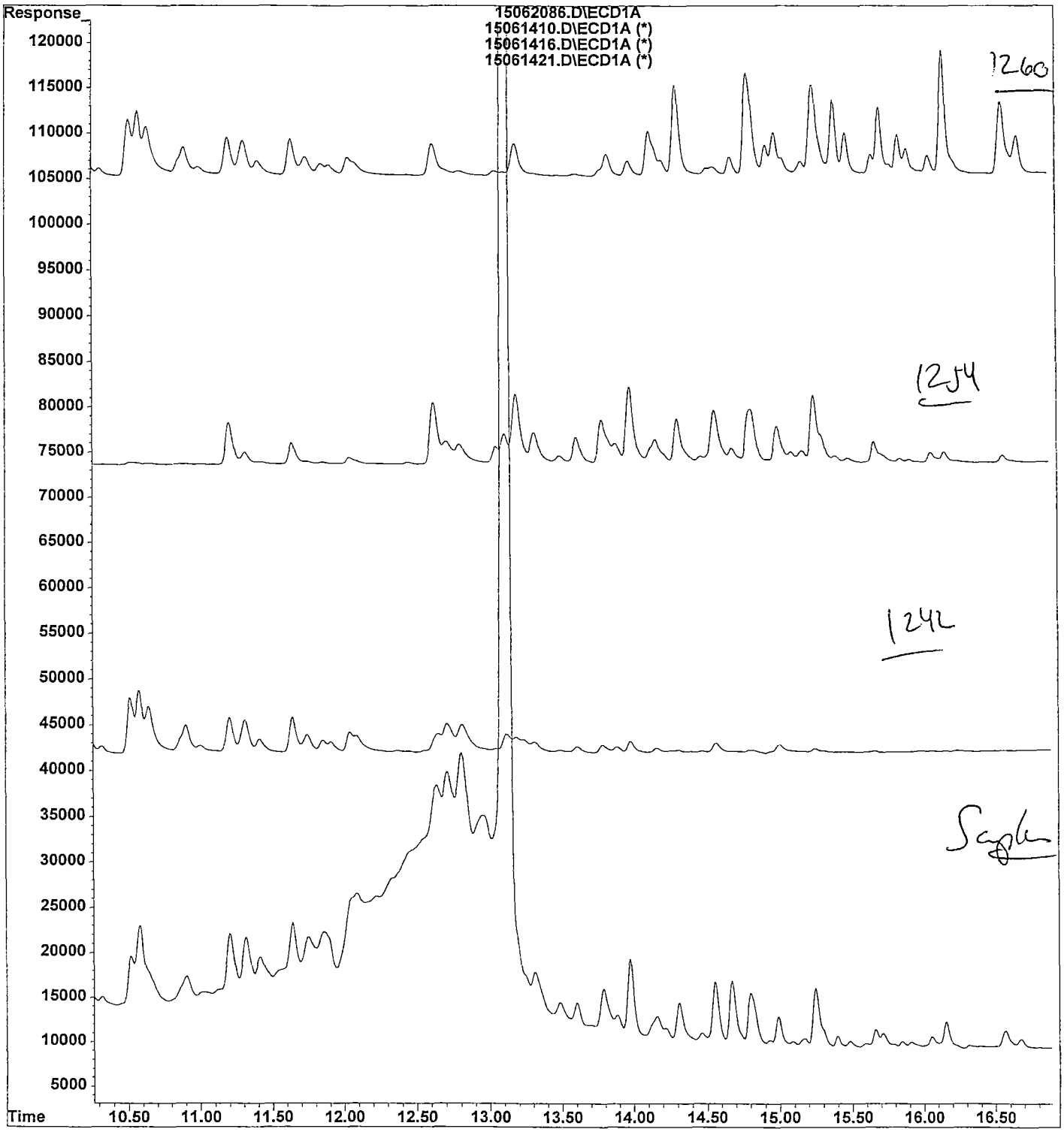
Data File : F:\HPCHEM\HP\15\DATA\06_20_01\15062086.D\ECD2B.CH Vial: 82
Acq On : 21 Jun 2001 18:02 Operator: DDC
Sample : 46732.59 Inst : HP_15
Misc : Dilution: 1.00
IntFile : events2.e
Quant Time: Jun 21 21:41 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B



File : F:\HPCHEM\HP\15\DATA\06_20_01\15062086.D
Operator : DDC
Acquired : 21 Jun 2001 18:02 using AcqMethod OLM03.M
Instrument : HP_15
Sample Name: 46732.59
Misc Info :
Vial Number: 82



Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_20_01\15062086.D\ECD1A.CH Vial: 82
Signal #2 : F:\HPCHEM\HP\15\DATA\06_20_01\15062086.D\ECD2B.CH
Acq On : 21 Jun 2001 18:02 Operator: DDC
Sample : 46732.59 *E3104 * Inst : HP_15
Misc : *EPA*30.3G/5.0ML*77 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 21 21:41 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.59	7.35	372212	341150	21.3	21.1
	Spiked Amount 28.699			Recovery	=	74.22%	73.52%
22)	S DCB	18.28	18.69	369990	362293	20.5	21.9
	Spiked Amount 28.699			Recovery	=	71.43%	76.31%
	Target Compounds:						
7)	L4 Aroclor-1242	0.00	10.40	0	72164	N.D. d	367.4 #
[illegible]	L4 Aroclor-1242 {2}	9.77f	0.00	125314	0	459.3	N.D. d #
[illegible]	L4 Aroclor-1242 {3}	10.58f	12.41	457101	124407	646.3	662.6
10)	L4 Aroclor-1242 {4}	11.64	12.63	267811	160953	668.9	752.2
11)	L4 Aroclor-1242 {5}	0.00	13.14	0	217092	N.D. d	725.6 #
	Sum Aroclor-1242			850227	574616	1774.5	2507.9
	Average Aroclor-1242					591.486	626.973
13)	L6 Aroclor-1254 {2}	13.31	13.03	109967	164009	212.7	495.2 #
14)	L6 Aroclor-1254 {3}	13.79	0.00	163076	0	226.8	N.D. d #
15)	L6 Aroclor-1254 {4}	14.31	14.92	124961	121840	193.8	236.2
16)	L6 Aroclor-1254 {5}	14.99	15.39	79979	108901	147.5	170.8
	Sum Aroclor-1254			477984	394750	780.8	902.3
	Average Aroclor-1254					195.200	300.761
17)	L7 Aroclor-1260	14.31	0.00	124961	0	110.2	N.D. d #
19)	L7 Aroclor-1260 {3}	0.00	14.92	0	121840	N.D. d	102.9 #
20)	L7 Aroclor-1260 {4}	15.72	16.09	38234	24491	46.1	36.0
21)	L7 Aroclor-1260 {5}	16.16	16.32	95198	90432	57.6	54.9
	Sum Aroclor-1260			258393	236762	307.0	278.1
	Average Aroclor-1260					71.310	64.593

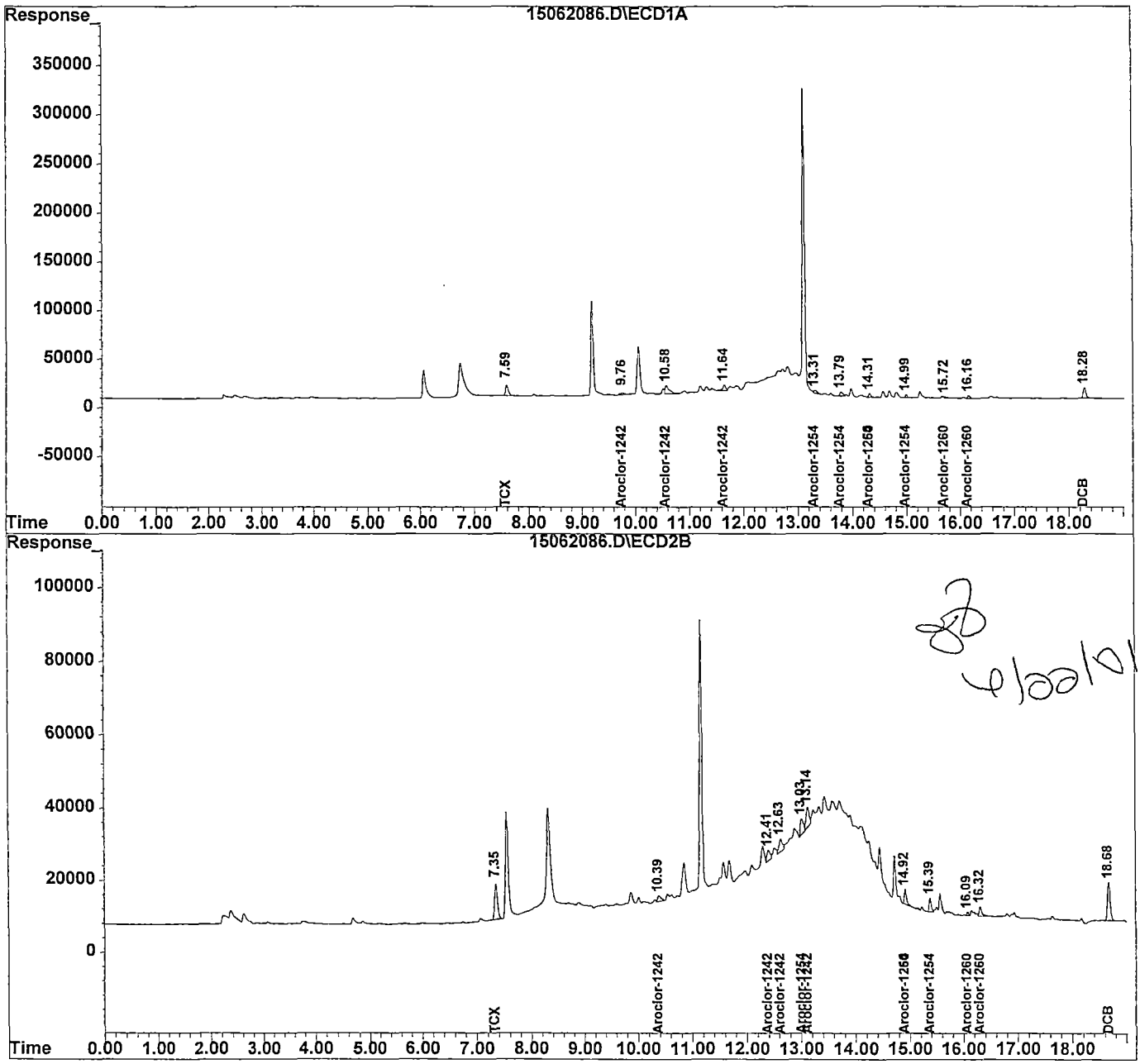
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_20_01\15062086.D\ECD1A.CH Vial: 82
Signal #2 : F:\HPCHEM\HP\15\DATA\06_20_01\15062086.D\ECD2B.CH
Acq On : 21 Jun 2001 18:02 Operator: DDC
Sample : 46732.59 *E3104 * Inst : HP_15
Misc : *EPA*30.3G/5.0ML*77 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 21 21:41 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B



6F

AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30W6

Instrument ID: HP_15A Date(s) Analyzed: 06/14/01 06/14/01

Level (x Level 1): L1: 1.0 L2: 2.0 L3: 4.0 L4: 8.0 L5: 16.0

GC Column: DB-17MS ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1242 L1	0.10	1	8.42	664620	MEAN
		2	9.70	431270	
		3	10.64	1180000	
		4	11.65	626890	
		5	12.82	889640	
Aroclor 1242 L2	0.20	1	8.42	676060	MEAN
		2	9.70	463215	
		3	10.64	1196685	
		4	11.64	669200	
		5	12.81	934410	
Aroclor 1242 L3	0.40	1	8.42	569663	MEAN
		2	9.70	391655	
		3	10.64	994758	
		4	11.64	572580	
		5	12.81	800968	
Aroclor 1242 L4	0.80	1	8.42	519064	MEAN
		2	9.70	348104	
		3	10.64	887894	
		4	11.64	515894	
		5	12.81	709150	
Aroclor 1242 L5	1.60	1	8.42	480072	MEAN
		2	9.70	323281	
		3	10.64	815075	
		4	11.64	488104	
		5	12.81	648654	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1242 MEAN	1	8.42	8.37	8.47	581896	14.9
	2	9.70	9.65	9.75	391505	14.7
	3	10.64	10.59	10.69	1014882	16.8
	4	11.64	11.59	11.69	574534	13.1
	5	12.81	12.76	12.86	796564	15.0

FORM VI PCB-3

6F

AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30W6

Instrument ID: HP_15B Date(s) Analyzed: 06/14/01 06/14/01

Level (x Level 1): L1: 1.0 L2: 2.0 L3: 4.0 L4: 8.0 L5: 16.0

GC Column: DB-XLB ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1242 L1	0.10	1	10.40	328290	MEAN
		2	11.18	458310	
		3	12.40	226860	
		4	12.64	296180	
		5	13.16	424240	
Aroclor 1242 L2	0.20	1	10.40	308150	MEAN
		2	11.18	527150	
		3	12.40	287435	
		4	12.64	332650	
		5	13.15	465130	
Aroclor 1242 L3	0.40	1	10.40	269228	MEAN
		2	11.18	490823	
		3	12.40	284498	
		4	12.64	310398	
		5	13.15	427783	
Aroclor 1242 L4	0.80	1	10.40	252833	MEAN
		2	11.18	464951	
		3	12.40	275704	
		4	12.64	297655	
		5	13.15	411609	
Aroclor 1242 L5	1.60	1	10.40	250581	MEAN
		2	11.18	452749	
		3	12.40	272488	
		4	12.63	298319	
		5	13.15	417811	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1242 MEAN	1	10.40	10.35	10.45	281816	12.3
	2	11.18	11.13	11.23	478797	6.4
	3	12.40	12.35	12.45	269397	9.1
	4	12.64	12.59	12.69	307040	5.0
	5	13.15	13.10	13.20	429315	4.9

6F

AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30W6

Instrument ID: HP_15A Date(s) Analyzed: 06/14/01 06/14/01

Level (x Level 1): L1: 1.0 L2: 2.0 L3: 4.0 L4: 8.0 L5: 16.0

GC Column: DB-17MS ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1254 L1	0.10	1	12.63	1354190	MEAN
		2	13.32	852680	
		3	13.79	1130160	
		4	14.32	1042710	
		5	15.00	811800	
Aroclor 1254 L2	0.20	1	12.63	1244390	MEAN
		2	13.32	790885	
		3	13.79	1057770	
		4	14.32	964245	
		5	15.00	755995	
Aroclor 1254 L3	0.40	1	12.63	1197170	MEAN
		2	13.32	770083	
		3	13.79	1068970	
		4	14.31	963943	
		5	15.00	796793	
Aroclor 1254 L4	0.80	1	12.63	1047134	MEAN
		2	13.32	677325	
		3	13.79	973559	
		4	14.31	861929	
		5	15.00	768728	
Aroclor 1254 L5	1.60	1	12.62	960460	MEAN
		2	13.31	619195	
		3	13.78	927454	
		4	14.31	792509	
		5	15.00	757597	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1254 MEAN	1	12.63	12.58	12.68	1160669	13.5
	2	13.32	13.27	13.37	742034	12.6
	3	13.79	13.74	13.84	1031583	7.8
	4	14.31	14.26	14.36	925067	10.6
	5	15.00	14.95	15.05	778182	3.2

6F

AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30W6

Instrument ID: HP_15B Date(s) Analyzed: 06/14/01 06/14/01

Level (x Level 1): L1: 1.0 L2: 2.0 L3: 4.0 L4: 8.0 L5: 16.0

GC Column: DB-XLB ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1254 L1	0.10	1	12.31	393420	MEAN
		2	13.03	470210	
		3	13.94	530240	
		4	14.93	794340	
		5	15.40	925580	
Aroclor 1254 L2	0.20	1	12.31	384045	MEAN
		2	13.03	462840	
		3	13.94	520895	
		4	14.93	731295	
		5	15.40	871060	
Aroclor 1254 L3	0.40	1	12.30	359990	MEAN
		2	13.02	490663	
		3	13.94	541980	
		4	14.93	766540	
		5	15.40	934830	
Aroclor 1254 L4	0.80	1	12.31	337459	MEAN
		2	13.02	474138	
		3	13.93	507148	
		4	14.93	720706	
		5	15.40	917469	
Aroclor 1254 L5	1.60	1	12.30	332944	MEAN
		2	13.02	478175	
		3	13.93	492271	
		4	14.93	687450	
		5	15.39	925389	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1254 MEAN	1	12.30	12.25	12.35	361572	7.5
	2	13.02	12.97	13.07	475205	2.2
	3	13.94	13.89	13.99	518507	3.7
	4	14.93	14.88	14.98	740066	5.6
	5	15.40	15.35	15.45	914866	2.8

6F

AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30W6

Instrument ID: HP_15A Date(s) Analyzed: 06/14/01 06/14/01

Level (x Level 1): L1: 1.0 L2: 2.0 L3: 4.0 L4: 8.0 L5: 16.0

GC Column: DB-17MS ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1221	0.40	1	8.03	384860	SINGLE
		2	8.21	234865	POINT
		3	8.42	919358	
		4			
		5			
Aroclor 1232	0.40	1	8.42	814160	SINGLE
		2	9.27	432953	POINT
		3	9.70	280733	
		4	10.52	459765	
		5			
Aroclor 1248	0.40	1	9.28	415635	SINGLE
		2	10.52	623393	POINT
		3	11.41	463830	
		4	11.75	498110	
		5	13.19	919535	

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6F

AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30W6

Instrument ID: HP_15B Date(s) Analyzed: 06/14/01 06/14/01

Level (x Level 1): L1: 1.0 L2: 2.0 L3: 4.0 L4: 8.0 L5: 16.0

GC Column: DB-XLB ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1221	0.40	1	8.37	307348	SINGLE
		2	8.71	233798	POINT
		3	8.89	669085	
		4			
		5			
Aroclor 1232	0.40	1	8.89	606745	SINGLE
		2	10.55	270270	POINT
		3	11.18	282938	
		4	12.40	147110	
		5			
Aroclor 1248	0.40	1	9.88	520953	SINGLE
		2	11.58	857708	POINT
		3	12.52	314513	
		4	13.25	569510	
		5	13.59	224343	

FORM VI PCB-3

6F

AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30W6

Instrument ID: HP_15A Date(s) Analyzed: 06/15/01 06/15/01

Level (x Level 1): L1: 1.0 L2: 2.0 L3: 4.0 L4: 8.0 L5: 16.0

GC Column: DB-17MS ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1016 L1	0.10	1	8.42	738450	MEAN
		2	9.28	990920	
		3	10.58	1186730	
		4	11.20	812690	
		5	11.64	741060	
Aroclor 1016 L2	0.20	1	8.42	706515	MEAN
		2	9.27	914520	
		3	10.58	1136515	
		4	11.20	768955	
		5	11.64	723050	
Aroclor 1016 L3	0.40	1	8.42	645238	MEAN
		2	9.28	820375	
		3	10.58	1102935	
		4	11.20	704955	
		5	11.64	682690	
Aroclor 1016 L4	0.80	1	8.42	660726	MEAN
		2	9.27	818364	
		3	10.58	1183484	
		4	11.20	716871	
		5	11.64	719753	
Aroclor 1016 L5	1.60	1	8.42	550421	MEAN
		2	9.27	664431	
		3	10.58	1038345	
		4	11.20	602249	
		5	11.64	619226	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1016 MEAN	1	8.42	8.37	8.47	660270	10.9
	2	9.27	9.22	9.32	841722	14.5
	3	10.58	10.53	10.63	1129602	5.5
	4	11.20	11.15	11.25	721144	11.0
	5	11.64	11.59	11.69	697156	7.0

6F

AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30W6

Instrument ID: HP_15A Date(s) Analyzed: 06/15/01 06/15/01

Level (x Level 1): L1: 1.0 L2: 2.0 L3: 4.0 L4: 8.0 L5: 16.0

GC Column: DB-17MS ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1260 L1	0.10	1	14.32	1874150	MEAN
		2	14.81	2459160	
		3	15.26	2235550	
		4	15.72	1204690	
		5	16.17	2460320	
Aroclor 1260 L2	0.20	1	14.32	1722650	MEAN
		2	14.81	2269205	
		3	15.26	2097835	
		4	15.72	1208850	
		5	16.16	2311980	
Aroclor 1260 L3	0.40	1	14.31	1587458	MEAN
		2	14.81	2134213	
		3	15.26	2044663	
		4	15.72	1211755	
		5	16.16	2407915	
Aroclor 1260 L4	0.80	1	14.31	1587676	MEAN
		2	14.80	2170741	
		3	15.26	2128451	
		4	15.72	1224845	
		5	16.16	2427140	
Aroclor 1260 L5	1.60	1	14.31	1361061	MEAN
		2	14.80	1902787	
		3	15.25	1924112	
		4	15.72	1106082	
		5	16.16	2242677	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1260 MEAN	1	14.31	14.26	14.36	1626599	11.7
	2	14.81	14.76	14.86	2187221	9.3
	3	15.26	15.21	15.31	2086122	5.5
	4	15.72	15.67	15.77	1191244	4.0
	5	16.16	16.11	16.21	2370006	3.8

6F

AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30W6

Instrument ID: HP_15B Date(s) Analyzed: 06/15/01 06/15/01

Level (x Level 1): L1: 1.0 L2: 2.0 L3: 4.0 L4: 8.0 L5: 16.0

GC Column: DB-XLB ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1016 L1	0.10	1	8.89	576010	MEAN
		2	9.88	1410260	
		3	10.86	1987780	
		4	11.18	620580	
		5	12.30	699230	
Aroclor 1016 L2	0.20	1	8.89	554130	MEAN
		2	9.88	1316915	
		3	10.86	1970985	
		4	11.18	618165	
		5	12.30	705495	
Aroclor 1016 L3	0.40	1	8.89	512588	MEAN
		2	9.88	1205165	
		3	10.86	1919785	
		4	11.18	615683	
		5	12.30	675705	
Aroclor 1016 L4	0.80	1	8.89	537636	MEAN
		2	9.88	1240376	
		3	10.86	2163193	
		4	11.18	687905	
		5	12.30	741581	
Aroclor 1016 L5	1.60	1	8.89	461864	MEAN
		2	9.88	1035686	
		3	10.86	1952811	
		4	11.18	618398	
		5	12.30	659559	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1016 MEAN	1	8.89	8.84	8.94	528446	8.3
	2	9.88	9.83	9.93	1241681	11.2
	3	10.86	10.81	10.91	1998911	4.8
	4	11.18	11.13	11.23	632146	4.9
	5	12.30	12.25	12.35	696314	4.5

FORM VI PCB-3

6F

AROCLOR INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30W6

Instrument ID: HP_15B Date(s) Analyzed: 06/15/01 06/15/01

Level (x Level 1): L1: 1.0 L2: 2.0 L3: 4.0 L4: 8.0 L5: 16.0

GC Column: DB-XLB ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	CALIBRATION FACTOR	CALIB TYPE
Aroclor 1260 L1	0.10	1	14.45	894730	MEAN
		2	14.73	1591790	
		3	14.93	1861870	
		4	16.10	1023360	
		5	16.33	2408050	
Aroclor 1260 L2	0.20	1	14.44	856875	MEAN
		2	14.73	1479185	
		3	14.93	1714690	
		4	16.10	960915	
		5	16.33	2300000	
Aroclor 1260 L3	0.40	1	14.44	826690	MEAN
		2	14.73	1389670	
		3	14.93	1630365	
		4	16.10	943100	
		5	16.33	2252848	
Aroclor 1260 L4	0.80	1	14.44	902056	MEAN
		2	14.73	1458426	
		3	14.93	1732690	
		4	16.10	1013381	
		5	16.33	2499388	
Aroclor 1260 L5	1.60	1	14.44	819836	MEAN
		2	14.73	1262104	
		3	14.93	1557877	
		4	16.09	936229	
		5	16.33	2362651	

COMPOUND	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	MEAN CALIB. FACTOR	% RSD
Aroclor 1260 MEAN	1	14.44	14.39	14.49	860037	4.4
	2	14.73	14.68	14.78	1436235	8.5
	3	14.93	14.88	14.98	1699498	6.7
	4	16.10	16.05	16.15	975397	4.1
	5	16.33	16.28	16.38	2364587	4.1

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30W6

GC Column: DB-17MS ID: 0.32(mm) Init. Calib Date(s): 06/15/01 06/15/01

Client Sample No.(PIBLK): PIBLKI5 Date Analyzed : 06/20/01

Lab Sample ID (PIBLK): 5-414-6 Time Analyzed : 2331

Client Sample No.: AR1660L35P Date Analyzed : 06/20/01

Lab Sample ID : 5-29-7 Time Analyzed : 2355

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.42	8.37	8.47	692198	660270	4.8
Aroclor 1016 #2	9.27	9.22	9.32	819598	841722	2.6
Aroclor 1016 #3	10.57	10.53	10.63	1144743	1129600	1.3
Aroclor 1016 #4	11.20	11.15	11.25	752580	721144	4.4
Aroclor 1016 #5	11.65	11.59	11.69	746203	697156	7.0
Aroclor 1260 #1	14.32	14.26	14.36	1719108	1626600	5.7
Aroclor 1260 #2	14.81	14.76	14.86	2310518	2187220	5.6
Aroclor 1260 #3	15.26	15.21	15.31	2134553	2086120	2.3
Aroclor 1260 #4	15.72	15.67	15.77	1177858	1191240	1.1
Aroclor 1260 #5	16.16	16.11	16.21	2291955	2370010	3.3

QC LIMITS: RPD of amounts of the Multi-Components must be less than or equal to 15.0%.

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30W6

GC Column: DB-XLB ID: 0.32(mm) Init. Calib Date(s): 06/15/01 06/15/01

Client Sample No.(PIBLK): PIBLKI5 Date Analyzed : 06/20/01

Lab Sample ID (PIBLK): 5-414-6 Time Analyzed : 2331

Client Sample No.: AR1660L35P Date Analyzed : 06/20/01

Lab Sample ID : 5-29-7 Time Analyzed : 2355

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.89	8.84	8.94	604643	528446	14.4
Aroclor 1016 #2	9.87	9.83	9.93	1388575	1241680	11.8
Aroclor 1016 #3	10.85	10.81	10.91	2140800	1998910	7.1
Aroclor 1016 #4	11.18	11.13	11.23	602285	632146	4.7
Aroclor 1016 #5	12.30	12.25	12.35	716780	696314	2.9
Aroclor 1260 #1	14.44	14.39	14.49	883418	860037	2.7
Aroclor 1260 #2	14.73	14.68	14.78	1490193	1436240	3.8
Aroclor 1260 #3	14.93	14.88	14.98	1795515	1699500	5.7
Aroclor 1260 #4	16.09	16.05	16.15	986068	975397	1.1
Aroclor 1260 #5	16.32	16.28	16.38	2445533	2364590	3.4

QC LIMITS: RPD of amounts of the Multi-Components must be less than or equal to 15.0%.

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30W6

GC Column: DB-17MS ID: 0.32(mm) Init. Calib Date(s): 06/15/01 06/15/01

Client Sample No.(PIBLK): PIBLKK5 Date Analyzed : 06/21/01

Lab Sample ID (PIBLK): 5-414-6 Time Analyzed : 0846

Client Sample No.: AR1660L35T Date Analyzed : 06/21/01

Lab Sample ID : 5-29-7 Time Analyzed : 0909

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.41	8.37	8.47	745345	660270	12.9
Aroclor 1016 #2	9.27	9.22	9.32	837275	841722	0.5
Aroclor 1016 #3	10.57	10.53	10.63	1232058	1129600	9.1
Aroclor 1016 #4	11.20	11.15	11.25	751538	721144	4.2
Aroclor 1016 #5	11.65	11.59	11.69	730165	697156	4.7
Aroclor 1260 #1	14.32	14.26	14.36	1787783	1626600	9.9
Aroclor 1260 #2	14.81	14.76	14.86	2298108	2187220	5.1
Aroclor 1260 #3	15.26	15.21	15.31	2122423	2086120	1.7
Aroclor 1260 #4	15.72	15.67	15.77	1408065	1191240	18.2*
Aroclor 1260 #5	16.16	16.11	16.21	2218635	2370010	6.4

QC LIMITS: RPD of amounts of the Multi-Components must be less than or equal to 15.0%.

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30W6

GC Column: DB-XLB ID: 0.32(mm) Init. Calib Date(s): 06/15/01 06/15/01

Client Sample No.(PIBLK): PIBLKK5 Date Analyzed : 06/21/01

Lab Sample ID (PIBLK): 5-414-6 Time Analyzed : 0846

Client Sample No.: AR1660L35T Date Analyzed : 06/21/01

Lab Sample ID : 5-29-7 Time Analyzed : 0909

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.88	8.84	8.94	644980	528446	22.0*
Aroclor 1016 #2	9.87	9.83	9.93	1406575	1241680	13.3
Aroclor 1016 #3	10.85	10.81	10.91	2157605	1998910	7.9
Aroclor 1016 #4	11.17	11.13	11.23	604780	632146	4.3
Aroclor 1016 #5	12.30	12.25	12.35	753780	696314	8.3
Aroclor 1260 #1	14.44	14.39	14.49	909625	860037	5.8
Aroclor 1260 #2	14.73	14.68	14.78	1538458	1436240	7.1
Aroclor 1260 #3	14.93	14.88	14.98	1744385	1699500	2.6
Aroclor 1260 #4	16.09	16.05	16.15	984993	975397	1.0
Aroclor 1260 #5	16.32	16.28	16.38	2215435	2364590	6.3

QC LIMITS: RPD of amounts of the Multi-Components must be less than or equal to 15.0%.

7F
MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30W6

GC Column: DB-17MS ID: 0.32(mm) Init. Calib Date(s): 06/15/01 06/15/01

Client Sample No.(PIBLK): PIBLKL5 Date Analyzed : 06/21/01

Lab Sample ID (PIBLK): 5-414-6 Time Analyzed : 1456

Client Sample No.: AR1660L352 Date Analyzed : 06/21/01

Lab Sample ID : 5-29-7 Time Analyzed : 1520

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.42	8.37	8.47	692313	660270	4.9
Aroclor 1016 #2	9.27	9.22	9.32	763070	841722	9.3
Aroclor 1016 #3	10.57	10.53	10.63	1136100	1129600	0.6
Aroclor 1016 #4	11.21	11.15	11.25	683580	721144	5.2
Aroclor 1016 #5	11.66	11.59	11.69	657763	697156	5.7
Aroclor 1260 #1	14.32	14.26	14.36	1651733	1626600	1.5
Aroclor 1260 #2	14.81	14.76	14.86	2084360	2187220	4.7
Aroclor 1260 #3	15.26	15.21	15.31	1904138	2086120	8.7
Aroclor 1260 #4	15.72	15.67	15.77	1224580	1191240	2.8
Aroclor 1260 #5	16.16	16.11	16.21	1897043	2370010	20.0*

QC LIMITS: RPD of amounts of the Multi-Components must be less than or equal to 15.0%.

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30W6

GC Column: DB-XLB ID: 0.32(mm) Init. Calib Date(s): 06/15/01 06/15/01

Client Sample No.(PIBLK): PIBLKL5 Date Analyzed : 06/21/01

Lab Sample ID (PIBLK): 5-414-6 Time Analyzed : 1456

Client Sample No.: AR1660L352 Date Analyzed : 06/21/01

Lab Sample ID : 5-29-7 Time Analyzed : 1520

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.89	8.84	8.94	648925	528446	22.8*
Aroclor 1016 #2	9.87	9.83	9.93	1309970	1241680	5.5
Aroclor 1016 #3	10.86	10.81	10.91	1913013	1998910	4.3
Aroclor 1016 #4	11.18	11.13	11.23	517233	632146	18.2*
Aroclor 1016 #5	12.31	12.25	12.35	690233	696314	0.9
Aroclor 1260 #1	14.45	14.39	14.49	844670	860037	1.8
Aroclor 1260 #2	14.73	14.68	14.78	1419080	1436240	1.2
Aroclor 1260 #3	14.93	14.88	14.98	1627818	1699500	4.2
Aroclor 1260 #4	16.09	16.05	16.15	910630	975397	6.6
Aroclor 1260 #5	16.32	16.28	16.38	2043868	2364590	13.6

QC LIMITS: RPD of amounts of the Multi-Components must be less than or equal to 15.0%.

7F

MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30W6

GC Column: DB-17MS ID: 0.32(mm) Init. Calib Date(s): 06/15/01 06/15/01

Client Sample No.(PIBLK): PIBLKM5 Date Analyzed : 06/21/01

Lab Sample ID (PIBLK): 5-414-6 Time Analyzed : 1958

Client Sample No.: AR1660L35X Date Analyzed : 06/21/01

Lab Sample ID : 5-29-7 Time Analyzed : 2021

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.42	8.37	8.47	734808	660270	11.3
Aroclor 1016 #2	9.27	9.22	9.32	796128	841722	5.4
Aroclor 1016 #3	10.58	10.53	10.63	1133040	1129600	0.3
Aroclor 1016 #4	11.21	11.15	11.25	729978	721144	1.2
Aroclor 1016 #5	11.66	11.59	11.69	703525	697156	0.9
Aroclor 1260 #1	14.32	14.26	14.36	1814058	1626600	11.5
Aroclor 1260 #2	14.81	14.76	14.86	2301193	2187220	5.2
Aroclor 1260 #3	15.26	15.21	15.31	2109928	2086120	1.1
Aroclor 1260 #4	15.72	15.67	15.77	1435770	1191240	20.5*
Aroclor 1260 #5	16.16	16.11	16.21	2170795	2370010	8.4

QC LIMITS: RPD of amounts of the Multi-Components must be less than or equal to 15.0%.

7F
MULTI-COMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30W6

GC Column: DB-XLB ID: 0.32(mm) Init. Calib Date(s): 06/15/01 06/15/01

Client Sample No.(PIBLK): PIBLKM5 Date Analyzed : 06/21/01

Lab Sample ID (PIBLK): 5-414-6 Time Analyzed : 1958

Client Sample No.: AR1660L35X Date Analyzed : 06/21/01

Lab Sample ID : 5-29-7 Time Analyzed : 2021

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	MEAN CALIB. FACTOR	%D #
Aroclor 1016 #1	8.89	8.84	8.94	685530	528446	29.7*
Aroclor 1016 #2	9.87	9.83	9.93	1399483	1241680	12.7
Aroclor 1016 #3	10.86	10.81	10.91	2070173	1998910	3.6
Aroclor 1016 #4	11.18	11.13	11.23	573828	632146	9.2
Aroclor 1016 #5	12.31	12.25	12.35	752770	696314	8.1
Aroclor 1260 #1	14.45	14.39	14.49	927893	860037	7.9
Aroclor 1260 #2	14.73	14.68	14.78	1585525	1436240	10.4
Aroclor 1260 #3	14.93	14.88	14.98	1792693	1699500	5.5
Aroclor 1260 #4	16.10	16.05	16.15	1030490	975397	5.7
Aroclor 1260 #5	16.33	16.28	16.38	2263478	2364590	4.3

QC LIMITS: RPD of amounts of the Multi-Components must be less than or equal to 15.0%.

8D
AROCLOR ANALYTICAL SEQUENCE

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29294 SAS No.: SDG No.: E30W6

GC Column: DB-17MS ID: 0.32(mm) Init. Calib. Date(s):

Instrument ID: HP_15A

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

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	RESC5C	5-441-6	06/14/01	1952	7.59	18.28
02	AR1221L35C	5-420-6	06/14/01	2015	7.59	18.28
03	AR1232L35C	5-422-6	06/14/01	2038	7.59	18.29
04	AR1242L15C	5-11-7	06/14/01	2101	7.59	18.29
05	AR1242L25C	5-10-7	06/14/01	2125	7.59	18.29
06	AR1242L35C	5-9-7	06/14/01	2148	7.59	18.29
07	AR1242L45C	5-8-7	06/14/01	2211	7.59	18.29
08	AR1242L55C	5-7-7	06/14/01	2234	7.59	18.29
09	AR1248L35C	5-424-6	06/14/01	2257	7.59	18.29
10	AR1254L15C	5-6-7	06/14/01	2321	7.59	18.29
11	AR1254L25C	5-5-7	06/14/01	2344	7.59	18.29
12	AR1254L35C	5-4-7	06/15/01	0007	7.59	18.29
13	AR1254L45C	5-3-7	06/15/01	0030	7.59	18.28
14	AR1254L55C	5-2-7	06/15/01	0053	7.59	18.28
15	AR1660L15C	5-31-7	06/15/01	0117	7.59	18.29
16	AR1660L25C	5-30-7	06/15/01	0140	7.59	18.28
17	AR1660L35V	5-29-7	06/15/01	0203	7.59	18.28
18	AR1660L45C	5-28-7	06/15/01	0226	7.59	18.29
19	AR1660L55C	5-27-7	06/15/01	0249	7.59	18.28
20	PIBLK5G	5-414-6	06/15/01	0313	7.59	18.29
21	PIBLKI5	5-414-6	06/20/01	2331	7.58	18.28
22	AR1660L35P	5-29-7	06/20/01	2355	7.59	18.28
23	PBLKSC	BL0609SC	06/21/01	0127	7.58	18.28
24	ELCS1	LC0609SC	06/21/01	0213	7.59	18.28
25	ELCS2	LD0609SC	06/21/01	0236	7.58	18.28
26	E30Y6	46732.38	06/21/01	0432	7.58	18.28
27	E30W6	46732.39	06/21/01	0455	7.58	18.28
28	E30W6MS	46732.40MS	06/21/01	0518	7.58	18.28
29	E30W6MSD	46732.41MSD	06/21/01	0541	7.58	18.28
30	E30Y7	46732.42	06/21/01	0605	7.58	18.28
31	E30Y8	46732.43	06/21/01	0628	7.58	18.29
32	E30Y9	46732.44	06/21/01	0651	7.58	18.28
33	E30Z0	46732.45	06/21/01	0714	7.58	18.29
34	PIBLKK5	5-414-6	06/21/01	0846	7.58	18.28
35	AR1660L35T	5-29-7	06/21/01	0909	7.58	18.28

TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.10 MINUTES)

8D
AROCLOR ANALYTICAL SEQUENCE

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29294 SAS No.: SDG No.: E30W6

GC Column: DB-17MS ID: 0.32(mm) Init. Calib. Date(s):

Instrument ID: HP_15A

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

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	E30Z1	46732.46	06/21/01	1042	7.58	18.28
02	E30Z2	46732.47	06/21/01	1105	7.58	18.28
03	E30Z3	46732.48	06/21/01	1128	7.58	18.28
04	E30Z4	46732.49	06/21/01	1151	7.58	18.28
05	E30Z5	46732.50	06/21/01	1215	7.59	18.28
06	E30Z6	46732.51	06/21/01	1238	7.58	18.28
07	E30Z7	46732.52	06/21/01	1301	7.58	18.28
08	E30Z8	46732.53	06/21/01	1324	7.59	18.28
09	PIBLKL5	5-414-6	06/21/01	1456	7.59	18.28
10	AR1660L352	5-29-7	06/21/01	1520	7.59	18.28
11	E30Z9	46732.54	06/21/01	1606	7.59	18.28
12	E3100	46732.55	06/21/01	1629	7.59	18.28
13	E3101	46732.56	06/21/01	1652	7.59	18.28
14	E3102	46732.57	06/21/01	1715	7.59	18.28
15	E3103	46732.58	06/21/01	1739	7.59	18.28
16	E3104	46732.59	06/21/01	1802	7.59	18.28
17	E30Y6DL	46732.38DL	06/21/01	1825	7.59	18.29
18	PIBLKM5	5-414-6	06/21/01	1958	7.59	18.28
19	AR1660L35X	5-29-7	06/21/01	2021	7.59	18.28
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						
33						
34						
35						

TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.10 MINUTES)

8D
AROCLOR ANALYTICAL SEQUENCE

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29294 SAS No.: SDG No.: E30W6

GC Column: DB-XLB ID: 0.32(mm) Init. Calib. Date(s):

Instrument ID: HP_15B

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

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	RESC5C	5-441-6	06/14/01	1952	7.35	18.70
02	AR1221L35C	5-420-6	06/14/01	2015	7.35	18.70
03	AR1232L35C	5-422-6	06/14/01	2038	7.35	18.70
04	AR1242L15C	5-11-7	06/14/01	2101	7.36	18.70
05	AR1242L25C	5-10-7	06/14/01	2125	7.36	18.70
06	AR1242L35C	5-9-7	06/14/01	2148	7.36	18.70
07	AR1242L45C	5-8-7	06/14/01	2211	7.36	18.70
08	AR1242L55C	5-7-7	06/14/01	2234	7.36	18.70
09	AR1248L35C	5-424-6	06/14/01	2257	7.36	18.70
10	AR1254L15C	5-6-7	06/14/01	2321	7.36	18.70
11	AR1254L25C	5-5-7	06/14/01	2344	7.36	18.70
12	AR1254L35C	5-4-7	06/15/01	0007	7.35	18.70
13	AR1254L45C	5-3-7	06/15/01	0030	7.36	18.69
14	AR1254L55C	5-2-7	06/15/01	0053	7.35	18.69
15	AR1660L15C	5-31-7	06/15/01	0117	7.35	18.70
16	AR1660L25C	5-30-7	06/15/01	0140	7.35	18.70
17	AR1660L35V	5-29-7	06/15/01	0203	7.35	18.69
18	AR1660L45C	5-28-7	06/15/01	0226	7.35	18.69
19	AR1660L55C	5-27-7	06/15/01	0249	7.35	18.69
20	PIBLK5G	5-414-6	06/15/01	0313	7.35	18.70
21	PIBLKI5	5-414-6	06/20/01	2331	7.35	18.68
22	AR1660L35P	5-29-7	06/20/01	2355	7.35	18.68
23	PBLKSC	BL0609SC	06/21/01	0127	7.35	18.68
24	ELCS1	LC0609SC	06/21/01	0213	7.35	18.68
25	ELCS2	LD0609SC	06/21/01	0236	7.35	18.68
26	E30Y6	46732.38	06/21/01	0432	7.35	18.68
27	E30W6	46732.39	06/21/01	0455	7.35	18.68
28	E30W6MS	46732.40MS	06/21/01	0518	7.35	18.68
29	E30W6MSD	46732.41MSD	06/21/01	0541	7.35	18.68
30	E30Y7	46732.42	06/21/01	0605	7.35	18.68
31	E30Y8	46732.43	06/21/01	0628	7.35	18.69
32	E30Y9	46732.44	06/21/01	0651	7.35	18.68
33	E30Z0	46732.45	06/21/01	0714	7.35	18.69
34	PIBLKK5	5-414-6	06/21/01	0846	7.35	18.68
35	AR1660L35T	5-29-7	06/21/01	0909	7.35	18.68

TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.10 MINUTES)

8D
AROCLOR ANALYTICAL SEQUENCE

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 29294 SAS No.: SDG No.: E30W6

GC Column: DB-XLB ID: 0.32(mm) Init. Calib. Date(s):

Instrument ID: HP_15B

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

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	E30Z1	46732.46	06/21/01	1042	7.35	18.68
02	E30Z2	46732.47	06/21/01	1105	7.35	18.68
03	E30Z3	46732.48	06/21/01	1128	7.35	18.68
04	E30Z4	46732.49	06/21/01	1151	7.35	18.68
05	E30Z5	46732.50	06/21/01	1215	7.35	18.68
06	E30Z6	46732.51	06/21/01	1238	7.35	18.68
07	E30Z7	46732.52	06/21/01	1301	7.35	18.68
08	E30Z8	46732.53	06/21/01	1324	7.35	18.68
09	PIBLKL5	5-414-6	06/21/01	1456	7.35	18.68
10	AR1660L352	5-29-7	06/21/01	1520	7.35	18.68
11	E30Z9	46732.54	06/21/01	1606	7.35	18.68
12	E3100	46732.55	06/21/01	1629	7.35	18.68
13	E3101	46732.56	06/21/01	1652	7.35	18.68
14	E3102	46732.57	06/21/01	1715	7.35	18.68
15	E3103	46732.58	06/21/01	1739	7.35	18.68
16	E3104	46732.59	06/21/01	1802	7.35	18.69
17	E30Y6DL	46732.38DL	06/21/01	1825	7.35	18.69
18	PIBLKM5	5-414-6	06/21/01	1958	7.35	18.69
19	AR1660L35X	5-29-7	06/21/01	2021	7.35	18.68
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						
33						
34						
35						

TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.10 MINUTES)

10B
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

ELCS1

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30W6

Lab Sample ID: LC0609SC Date(s) Analyzed: 06/21/01 06/21/01

Instrument ID (1): HP_15A Instrument ID (2): HP_15B

GC Column (1): DB-17MS ID: 0.32(mm) GC Column (2): DB-XLB ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
Aroclor-1254 COLUMN 1	1	12.63	12.58	12.68	111		
	2	13.33	13.27	13.37	97.6		
	3	13.80	13.74	13.84	106		
	4	14.32	14.26	14.36	102		
	5	15.00	14.95	15.05	111	106	
COLUMN 2	1	12.31	12.25	12.35	110		
	2	13.04	12.97	13.07	101		
	3	13.94	13.89	13.99	95.9		
	4	14.93	14.88	14.98	107		
	5	15.40	15.35	15.45	116	106	0.0
_____ COLUMN 1	1						
	2						
	3						
	4						
	5						
COLUMN 2	1						
	2						
	3						
	4						
	5						
_____ COLUMN 1	1						
	2						
	3						
	4						
	5						
COLUMN 2	1						
	2						
	3						
	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

ELCS2

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30W6

Lab Sample ID: LD0609SC Date(s) Analyzed: 06/21/01 06/21/01

Instrument ID (1): HP_15A Instrument ID (2): HP_15B

GC Column (1): DB-17MS ID: 0.32(mm) GC Column (2): DB-XLB ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	12.63	12.58	12.68	138		
Aroclor-1254	2	13.32	13.27	13.37	122		
	3	13.79	13.74	13.84	133		
COLUMN 1	4	14.32	14.26	14.36	128		
	5	15.00	14.95	15.05	147	134	
	1	12.30	12.25	12.35	138		
	2	13.04	12.97	13.07	130		
	3	13.93	13.89	13.99	120		
COLUMN 2	4	14.93	14.88	14.98	135		
	5	15.40	15.35	15.45	148	134	0.0
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E30W6

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30W6

Lab Sample ID: 46732.39 Date(s) Analyzed: 06/21/01 06/21/01

Instrument ID (1): HP_15A Instrument ID (2): HP_15B

GC Column (1): DB-17MS ID: 0.32(mm) GC Column (2): DB-XLB ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	8.41	8.37	8.47	13.9		
Aroclor-1242	2	9.69	9.65	9.75	18.1		
	3						
COLUMN 1	4	11.65	11.59	11.69	25.1		
	5	12.82	12.76	12.86	21.9	19.8	
	1	10.39	10.35	10.45	27.6		
	2	11.18	11.13	11.23	27.0		
	3	12.40	12.35	12.45	24.0		
COLUMN 2	4	12.63	12.59	12.69	26.6		
	5	13.16	13.10	13.20	18.4	24.7	22.0
	1	12.64	12.58	12.68	12.3		
Aroclor-1254	2	13.35	13.27	13.37	11.9		
	3						
COLUMN 1	4	14.32	14.26	14.36	7.1		
	5	14.99	14.95	15.05	6.3	9.4	
	1						
	2	13.03	12.97	13.07	25.5		
	3	13.93	13.89	13.99	4.4		
COLUMN 2	4						
	5	15.39	15.35	15.45	7.2	12.4	27.5
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E30W6MS

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30W6

Lab Sample ID: 46732.40MS Date(s) Analyzed: 06/21/01 06/21/01

Instrument ID (1): HP_15A Instrument ID (2): HP_15B

GC Column (1): DB-17MS ID: 0.32(mm) GC Column (2): DB-XLB ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	8.41	8.37	8.47	9.0		
Aroclor-1242	2	9.69	9.65	9.75	11.5		
	3	10.57	10.59	10.69	47.5		
COLUMN 1	4						
	5					22.6	
	1	10.39	10.35	10.45	19.5		
	2	11.17	11.13	11.23	22.4		
	3						
COLUMN 2	4						
	5	13.15	13.10	13.20	22.8	21.6	4.5
	1	12.63	12.58	12.68	157		
Aroclor-1254	2	13.32	13.27	13.37	142		
	3	13.79	13.74	13.84	184		
COLUMN 1	4	14.31	14.26	14.36	141		
	5	15.00	14.95	15.05	166	158	
	1	12.30	12.25	12.35	162		
	2	13.02	12.97	13.07	135		
	3	13.93	13.89	13.99	125		
COLUMN 2	4	14.92	14.88	14.98	141		
	5	15.39	15.35	15.45	167	146	7.9
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes

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FORM X PCB

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E30W6MSD

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30W6

Lab Sample ID: 46732.41MSD Date(s) Analyzed: 06/21/01 06/21/01

Instrument ID (1): HP_15A Instrument ID (2): HP_15B

GC Column (1): DB-17MS ID: 0.32(mm) GC Column (2): DB-XLB ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	8.42	8.37	8.47	10.0		
Aroclor-1242	2	9.69	9.65	9.75	14.4		
	3	10.57	10.59	10.69	42.9		
COLUMN 1	4						
	5					22.4	
	1	10.39	10.35	10.45	18.6		
	2	11.17	11.13	11.23	27.6		
	3	12.40	12.35	12.45	20.2		
COLUMN 2	4						
	5	13.15	13.10	13.20	24.5	22.7	1.3
	1						
Aroclor-1254	2	13.32	13.27	13.37	125		
	3	13.79	13.74	13.84	167		
COLUMN 1	4	14.31	14.26	14.36	125		
	5	15.00	14.95	15.05	152	142	
	1	12.30	12.25	12.35	124		
	2	13.03	12.97	13.07	116		
	3	13.93	13.89	13.99	118		
COLUMN 2	4	14.92	14.88	14.98	125		
	5	15.39	15.35	15.45	157	128	10.4
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes

FORM X PCB

10B
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E30Y6

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30W6

Lab Sample ID: 46732.38 Date(s) Analyzed: 06/21/01 06/21/01

Instrument ID (1): HP_15A Instrument ID (2): HP_15B

GC Column (1): DB-17MS ID: 0.32(mm) GC Column (2): DB-XLB ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1						
Aroclor-1242	2	9.71	9.65	9.75	190		
	3						
COLUMN 1	4	11.64	11.59	11.69	782		
	5	12.80	12.76	12.86	1000	657	
	1	10.39	10.35	10.45	517		
	2	11.17	11.13	11.23	543		
	3						
COLUMN 2	4	12.63	12.59	12.69	954		
	5					671	2.1
	1	12.63	12.58	12.68	436		
Aroclor-1254	2	13.31	13.27	13.37	437		
	3	13.79	13.74	13.84	307		
COLUMN 1	4	14.31	14.26	14.36	307		
	5	14.99	14.95	15.05	277	353	
	1						
	2						
	3	13.92	13.89	13.99	227		
COLUMN 2	4	14.92	14.88	14.98	365		
	5	15.39	15.35	15.45	317	303	15.2
	1	14.31	14.26	14.36	175		
Aroclor-1260	2	14.80	14.76	14.86	210		
	3	15.25	15.21	15.31	248		
COLUMN 1	4	15.71	15.67	15.77	63.7		
	5	16.16	16.11	16.21	73.4	154	
	1						
	2	14.72	14.68	14.78	362		
	3	14.92	14.88	14.98	159		
COLUMN 2	4	16.09	16.05	16.15	68.0		
	5	16.32	16.28	16.38	82.5	168	8.7

At least 3 peaks are required for identification of multicomponent analytes

FORM X PCB

10B
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E30Y6DL

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30W6

Lab Sample ID: 46732.38DL Date(s) Analyzed: 06/21/01 06/21/01

Instrument ID (1): HP_15A Instrument ID (2): HP_15B

GC Column (1): DB-17MS ID: 0.32(mm) GC Column (2): DB-XLB ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	8.42	8.37	8.47	209		
Aroclor-1242	2						
	3						
COLUMN 1	4	11.65	11.59	11.69	926		
	5	12.81	12.76	12.86	1140	758	
	1	10.40	10.35	10.45	552		
	2	11.18	11.13	11.23	594		
	3						
COLUMN 2	4	12.63	12.59	12.69	1040		
	5	13.15	13.10	13.20	1240	856	12.1
	1	12.64	12.58	12.68	477		
Aroclor-1254	2	13.32	13.27	13.37	494		
	3	13.79	13.74	13.84	342		
COLUMN 1	4	14.32	14.26	14.36	351		
	5	14.99	14.95	15.05	281	389	
	1						
	2						
	3	13.93	13.89	13.99	250		
COLUMN 2	4	14.93	14.88	14.98	419		
	5	15.39	15.35	15.45	327	332	15.8
	1	14.32	14.26	14.36	200		
Aroclor-1260	2	14.81	14.76	14.86	228		
	3	15.25	15.21	15.31	254		
COLUMN 1	4	15.72	15.67	15.77	63.9		
	5	16.16	16.11	16.21	106	170	
	1						
	2	14.73	14.68	14.78	400		
	3	14.93	14.88	14.98	182		
COLUMN 2	4	16.09	16.05	16.15	66.2		
	5	16.32	16.28	16.38	87.2	184	7.9

At least 3 peaks are required for identification of multicomponent analytes

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E30Y7

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30W6

Lab Sample ID: 46732.42 Date(s) Analyzed: 06/21/01 06/21/01

Instrument ID (1): HP_15A Instrument ID (2): HP_15B

GC Column (1): DB-17MS ID: 0.32(mm) GC Column (2): DB-XLB ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1						
Aroclor-1242	2	9.76	9.65	9.75	294		
	3	10.57	10.59	10.69	416		
COLUMN 1	4	11.64	11.59	11.69	370		
	5	12.80	12.76	12.86	433	378	
	1	10.39	10.35	10.45	225		
	2	11.17	11.13	11.23	146		
	3						
COLUMN 2	4	12.63	12.59	12.69	386		
	5					252	50.0
	1	12.63	12.58	12.68	178		
Aroclor-1254	2	13.31	13.27	13.37	215		
	3	13.78	13.74	13.84	106		
COLUMN 1	4	14.31	14.26	14.36	258		
	5	14.99	14.95	15.05	162	184	
	1						
	2						
	3	13.92	13.89	13.99	104		
COLUMN 2	4	14.92	14.88	14.98	425		
	5	15.38	15.35	15.45	239	256	32.7
	1	14.31	14.26	14.36	147		
Aroclor-1260	2	14.80	14.76	14.86	171		
	3	15.25	15.21	15.31	140		
COLUMN 1	4	15.71	15.67	15.77	119		
	5	16.16	16.11	16.21	164	148	
	1						
	2	14.72	14.68	14.78	215		
	3	14.92	14.88	14.98	185		
COLUMN 2	4	16.09	16.05	16.15	146		
	5	16.32	16.28	16.38	191	184	21.7

At least 3 peaks are required for identification of multicomponent analytes

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10B
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E30Y8

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30W6

Lab Sample ID: 46732.43 Date(s) Analyzed: 06/21/01 06/21/01

Instrument ID (1): HP_15A Instrument ID (2): HP_15B

GC Column (1): DB-17MS ID: 0.32(mm) GC Column (2): DB-XLB ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	8.42	8.37	8.47	26.6		
Aroclor-1242	2	9.70	9.65	9.75	83.4		
	3	10.63	10.59	10.69	185		
COLUMN 1	4	11.67	11.59	11.69	107		
	5					100	
	1	10.40	10.35	10.45	533		
	2						
	3						
COLUMN 2	4	12.63	12.59	12.69	76.5		
	5	13.14	13.10	13.20	364	324	106
	1						
Aroclor-1254	2						
	3	13.79	13.74	13.84	190		
COLUMN 1	4	14.31	14.26	14.36	276		
	5	14.99	14.95	15.05	106	191	
	1	12.30	12.25	12.35	118		
	2						
	3						
COLUMN 2	4	14.92	14.88	14.98	254		
	5	15.39	15.35	15.45	154	175	8.7
	1	14.31	14.26	14.36	157		
Aroclor-1260	2	14.81	14.76	14.86	228		
	3	15.25	15.21	15.31	125		
COLUMN 1	4						
	5	16.16	16.11	16.21	252	190	
	1						
	2						
	3	14.92	14.88	14.98	110		
COLUMN 2	4	16.09	16.05	16.15	218		
	5	16.32	16.28	16.38	206	178	6.5

At least 3 peaks are required for identification of multicomponent analytes

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10B
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E30Z0

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30W6

Lab Sample ID: 46732.45 Date(s) Analyzed: 06/21/01 06/21/01

Instrument ID (1): HP_15A Instrument ID (2): HP_15B

GC Column (1): DB-17MS ID: 0.32(mm) GC Column (2): DB-XLB ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1						
Aroclor-1242	2	9.70	9.65	9.75	90.9		
	3	10.63	10.59	10.69	238		
COLUMN 1	4	11.64	11.59	11.69	176		
	5					168	
	1	10.40	10.35	10.45	537		
	2						
	3						
COLUMN 2	4	12.63	12.59	12.69	98.3		
	5	13.14	13.10	13.20	392	342	68.2
	1						
Aroclor-1254	2	13.30	13.27	13.37	124		
	3	13.79	13.74	13.84	186		
COLUMN 1	4	14.31	14.26	14.36	286		
	5	14.99	14.95	15.05	110	176	
	1	12.30	12.25	12.35	205		
	2	13.02	12.97	13.07	133		
	3						
COLUMN 2	4	14.92	14.88	14.98	269		
	5	15.39	15.35	15.45	146	188	6.6
	1	14.31	14.26	14.36	163		
Aroclor-1260	2						
	3	15.26	15.21	15.31	122		
COLUMN 1	4						
	5	16.16	16.11	16.21	222	169	
	1						
	2						
	3	14.92	14.88	14.98	117		
COLUMN 2	4	16.09	16.05	16.15	172		
	5	16.32	16.28	16.38	211	167	1.2

At least 3 peaks are required for identification of multicomponent analytes

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E30Z1

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30W6

Lab Sample ID: 46732.46 Date(s) Analyzed: 06/21/01 06/21/01

Instrument ID (1): HP_15A Instrument ID (2): HP_15B

GC Column (1): DB-17MS ID: 0.32(mm) GC Column (2): DB-XLB ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	8.41	8.37	8.47	51.8		
Aroclor-1242	2						
	3						
COLUMN 1	4	11.64	11.59	11.69	269		
	5	12.81	12.76	12.86	301	207	
	1	10.39	10.35	10.45	185		
	2	11.17	11.13	11.23	120		
	3						
COLUMN 2	4	12.63	12.59	12.69	262		
	5					189	9.5
	1	12.63	12.58	12.68	127		
Aroclor-1254	2	13.31	13.27	13.37	126		
	3	13.78	13.74	13.84	84.6		
COLUMN 1	4	14.31	14.26	14.36	96.0		
	5	14.99	14.95	15.05	68.6	100	
	1						
	2						
	3	13.92	13.89	13.99	61.2		
COLUMN 2	4	14.92	14.88	14.98	100		
	5	15.39	15.35	15.45	79.5	80.2	22.0
	1	14.31	14.26	14.36	54.6		
Aroclor-1260	2	14.80	14.76	14.86	54.1		
	3	15.25	15.21	15.31	56.6		
COLUMN 1	4						
	5	16.16	16.11	16.21	18.9	46.0	
	1						
	2	14.72	14.68	14.78	92.7		
	3	14.92	14.88	14.98	43.6		
COLUMN 2	4	16.09	16.05	16.15	17.7		
	5					51.3	11.5

At least 3 peaks are required for identification of multicomponent analytes

FORM X PCB

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E30Z2

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30W6

Lab Sample ID: 46732.47 Date(s) Analyzed: 06/21/01 06/21/01

Instrument ID (1): HP_15A Instrument ID (2): HP_15B

GC Column (1): DB-17MS ID: 0.32(mm) GC Column (2): DB-XLB ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1						
Aroclor-1242	2	9.70	9.65	9.75	120		
	3						
COLUMN 1	4	11.64	11.59	11.69	377		
	5	12.80	12.76	12.86	363	287	
	1	10.39	10.35	10.45	212		
	2	11.17	11.13	11.23	203		
	3						
COLUMN 2	4	12.63	12.59	12.69	299		
	5					238	20.6
	1	12.63	12.58	12.68	192		
Aroclor-1254	2	13.31	13.27	13.37	205		
	3	13.78	13.74	13.84	119		
COLUMN 1	4	14.31	14.26	14.36	150		
	5	14.99	14.95	15.05	101	153	
	1						
	2						
	3	13.92	13.89	13.99	132		
COLUMN 2	4	14.92	14.88	14.98	166		
	5	15.39	15.35	15.45	131	143	6.8
	1	14.31	14.26	14.36	85.2		
Aroclor-1260	2	14.80	14.76	14.86	96.5		
	3	15.25	15.21	15.31	105		
COLUMN 1	4	15.71	15.67	15.77	30.6		
	5	16.16	16.11	16.21	34.9	70.4	
	1						
	2	14.72	14.68	14.78	135		
	3	14.92	14.88	14.98	72.3		
COLUMN 2	4						
	5	16.32	16.28	16.38	34.1	80.5	13.4

At least 3 peaks are required for identification of multicomponent analytes

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E30Z3

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30W6

Lab Sample ID: 46732.48 Date(s) Analyzed: 06/21/01 06/21/01

Instrument ID (1): HP_15A Instrument ID (2): HP_15B

GC Column (1): DB-17MS ID: 0.32(mm) GC Column (2): DB-XLB ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	8.41	8.37	8.47	91.3		
Aroclor-1242	2	9.69	9.65	9.75	119		
	3						
COLUMN 1	4	11.64	11.59	11.69	301		
	5	12.81	12.76	12.86	301	203	
	1	10.39	10.35	10.45	252		
	2	11.17	11.13	11.23	196		
	3	12.40	12.35	12.45	346		
COLUMN 2	4	12.63	12.59	12.69	273		
	5					267	31.5
	1						
Aroclor-1254	2	13.32	13.27	13.37	97.4		
	3	13.79	13.74	13.84	56.3		
COLUMN 1	4	14.31	14.26	14.36	57.4		
	5	14.99	14.95	15.05	42.7	63.4	
	1						
	2						
	3	13.93	13.89	13.99	75.4		
COLUMN 2	4	14.92	14.88	14.98	59.5		
	5	15.39	15.35	15.45	54.5	63.1	0.5
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E30Z4

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30W6

Lab Sample ID: 46732.49 Date(s) Analyzed: 06/21/01 06/21/01

Instrument ID (1): HP_15A Instrument ID (2): HP_15B

GC Column (1): DB-17MS ID: 0.32(mm) GC Column (2): DB-XLB ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	8.41	8.37	8.47	238		
Aroclor-1242	2	9.70	9.65	9.75	136		
	3						
COLUMN 1	4	11.64	11.59	11.69	363		
	5					246	
	1						
	2	11.17	11.13	11.23	307		
	3	12.40	12.35	12.45	383		
COLUMN 2	4	12.63	12.59	12.69	286		
	5	13.14	13.10	13.20	231	302	20.4
	1						
Aroclor-1254	2	13.31	13.27	13.37	107		
	3	13.79	13.74	13.84	63.2		
COLUMN 1	4	14.31	14.26	14.36	68.8		
	5	14.99	14.95	15.05	55.1	73.5	
	1						
	2						
	3	13.93	13.89	13.99	86.7		
COLUMN 2	4	14.92	14.88	14.98	68.8		
	5	15.39	15.35	15.45	60.6	72.0	2.1
	1	14.31	14.26	14.36	39.1		
Aroclor-1260	2	14.80	14.76	14.86	40.4		
	3	15.25	15.21	15.31	41.8		
COLUMN 1	4						
	5	16.16	16.11	16.21	18.1	34.8	
	1						
	2	14.72	14.68	14.78	84.2		
	3	14.92	14.88	14.98	29.9		
COLUMN 2	4	16.09	16.05	16.15	17.5		
	5					43.9	26.1

At least 3 peaks are required for identification of multicomponent analytes

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E30Z5

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30W6

Lab Sample ID: 46732.50 Date(s) Analyzed: 06/21/01 06/21/01

Instrument ID (1): HP_15A Instrument ID (2): HP_15B

GC Column (1): DB-17MS ID: 0.32(mm) GC Column (2): DB-XLB ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	8.42	8.37	8.47	128		
Aroclor-1242	2	9.70	9.65	9.75	85.0		
	3						
COLUMN 1	4	11.64	11.59	11.69	231		
	5	12.81	12.76	12.86	223	167	
	1	10.39	10.35	10.45	274		
	2	11.17	11.13	11.23	188		
	3	12.40	12.35	12.45	235		
COLUMN 2	4	12.63	12.59	12.69	188		
	5					221	32.3
	1						
Aroclor-1254	2	13.32	13.27	13.37	62.5		
	3	13.79	13.74	13.84	32.9		
COLUMN 1	4	14.31	14.26	14.36	37.0		
	5	14.99	14.95	15.05	22.0	38.6	
	1						
	2						
	3	13.93	13.89	13.99	43.6		
COLUMN 2	4	14.92	14.88	14.98	37.1		
	5	15.39	15.35	15.45	28.7	36.5	5.6
	1	14.31	14.26	14.36	21.0		
Aroclor-1260	2	14.81	14.76	14.86	20.0		
	3	15.25	15.21	15.31	19.4		
COLUMN 1	4						
	5	16.15	16.11	16.21	11.8	18.0	
	1						
	2	14.73	14.68	14.78	45.1		
	3	14.92	14.88	14.98	16.2		
COLUMN 2	4	16.09	16.05	16.15	5.4		
	5					22.2	23.3

At least 3 peaks are required for identification of multicomponent analytes

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E30Z6

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30W6

Lab Sample ID: 46732.51 Date(s) Analyzed: 06/21/01 06/21/01

Instrument ID (1): HP_15A Instrument ID (2): HP_15B

GC Column (1): DB-17MS ID: 0.32(mm) GC Column (2): DB-XLB ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	8.41	8.37	8.47	108		
Aroclor-1242	2	9.70	9.65	9.75	136		
	3						
COLUMN 1	4	11.64	11.59	11.69	187		
	5					144	
	1	10.39	10.35	10.45	354		
	2						
	3						
COLUMN 2	4	12.63	12.59	12.69	319		
	5	13.14	13.10	13.20	406	360	85.7
	1						
Aroclor-1254	2						
	3	13.79	13.74	13.84	92.4		
COLUMN 1	4	14.31	14.26	14.36	87.0		
	5	14.99	14.95	15.05	78.9	86.1	
	1						
	2	13.02	12.97	13.07	315		
	3						
COLUMN 2	4	14.92	14.88	14.98	88.5		
	5	15.38	15.35	15.45	83.9	162	61.2
	1	14.31	14.26	14.36	49.5		
Aroclor-1260	2	14.80	14.76	14.86	57.2		
	3	15.25	15.21	15.31	69.6		
COLUMN 1	4	15.71	15.67	15.77	14.8		
	5	16.16	16.11	16.21	24.6	43.1	
	1						
	2	14.72	14.68	14.78	115		
	3	14.92	14.88	14.98	38.6		
COLUMN 2	4						
	5	16.32	16.28	16.38	23.0	58.9	31.0

At least 3 peaks are required for identification of multicomponent analytes

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E30Z7

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30W6

Lab Sample ID: 46732.52 Date(s) Analyzed: 06/21/01 06/21/01

Instrument ID (1): HP_15A Instrument ID (2): HP_15B

GC Column (1): DB-17MS ID: 0.32(mm) GC Column (2): DB-XLB ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	8.42	8.37	8.47	108		
Aroclor-1242	2	9.76	9.65	9.75	438		
	3						
COLUMN 1	4	11.64	11.59	11.69	291		
	5					279	
	1	10.39	10.35	10.45	402		
	2						
	3	12.40	12.35	12.45	434		
COLUMN 2	4	12.63	12.59	12.69	260		
	5					365	30.8
	1						
Aroclor-1254	2						
	3	13.78	13.74	13.84	149		
COLUMN 1	4	14.31	14.26	14.36	129		
	5	14.99	14.95	15.05	113	130	
	1	12.30	12.25	12.35	431		
	2						
	3						
COLUMN 2	4	14.92	14.88	14.98	146		
	5	15.38	15.35	15.45	140	239	59.1
	1	14.31	14.26	14.36	73.6		
Aroclor-1260	2	14.80	14.76	14.86	93.0		
	3	15.25	15.21	15.31	103		
COLUMN 1	4						
	5	16.16	16.11	16.21	70.3	85.0	
	1						
	2	14.72	14.68	14.78	186		
	3	14.92	14.88	14.98	63.6		
COLUMN 2	4						
	5	16.32	16.28	16.38	44.3	98.0	14.2

At least 3 peaks are required for identification of multicomponent analytes

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E3100

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30W6

Lab Sample ID: 46732.55 Date(s) Analyzed: 06/21/01 06/21/01

Instrument ID (1): HP_15A Instrument ID (2): HP_15B

GC Column (1): DB-17MS ID: 0.32(mm) GC Column (2): DB-XLB ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	8.42	8.37	8.47	135		
Aroclor-1242	2	9.76	9.65	9.75	590		
	3	10.58	10.59	10.69	889		
COLUMN 1	4	11.64	11.59	11.69	500		
	5					528	
	1	10.40	10.35	10.45	466		
	2						
	3	12.40	12.35	12.45	792		
COLUMN 2	4	12.63	12.59	12.69	655		
	5	13.14	13.10	13.20	902	704	28.6
	1						
Aroclor-1254	2	13.31	13.27	13.37	307		
	3	13.79	13.74	13.84	323		
COLUMN 1	4	14.31	14.26	14.36	313		
	5	14.99	14.95	15.05	246	297	
	1						
	2	13.02	12.97	13.07	710		
	3						
COLUMN 2	4	14.92	14.88	14.98	403		
	5	15.39	15.35	15.45	297	470	45.1
	1	14.31	14.26	14.36	178		
Aroclor-1260	2	14.80	14.76	14.86	227		
	3	15.25	15.21	15.31	251		
COLUMN 1	4						
	5	16.16	16.11	16.21	108	191	
	1						
	2						
	3	14.92	14.88	14.98	176		
COLUMN 2	4	16.09	16.05	16.15	83.3		
	5	16.32	16.28	16.38	102	120	45.7

At least 3 peaks are required for identification of multicomponent analytes

10B
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E3101

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30W6

Lab Sample ID: 46732.56 Date(s) Analyzed: 06/21/01 06/21/01

Instrument ID (1): HP_15A Instrument ID (2): HP_15B

GC Column (1): DB-17MS ID: 0.32(mm) GC Column (2): DB-XLB ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1						
Aroclor-1242	2	9.71	9.65	9.75	126		
	3	10.58	10.59	10.69	612		
COLUMN 1	4	11.64	11.59	11.69	470		
	5					403	
	1	10.40	10.35	10.45	300		
	2						
	3	12.40	12.35	12.45	551		
COLUMN 2	4	12.63	12.59	12.69	495		
	5	13.14	13.10	13.20	598	486	18.7
	1						
Aroclor-1254	2	13.31	13.27	13.37	400		
	3	13.78	13.74	13.84	385		
COLUMN 1	4	14.31	14.26	14.36	380		
	5	14.99	14.95	15.05	338	376	
	1						
	2						
	3	13.93	13.89	13.99	340		
COLUMN 2	4	14.92	14.88	14.98	417		
	5	15.39	15.35	15.45	397	385	2.4
	1	14.31	14.26	14.36	216		
Aroclor-1260	2						
	3						
COLUMN 1	4	15.72	15.67	15.77	70.1		
	5	16.16	16.11	16.21	127	138	
	1						
	2						
	3	14.92	14.88	14.98	182		
COLUMN 2	4	16.09	16.05	16.15	64.1		
	5	16.32	16.28	16.38	85.0	110	22.6

At least 3 peaks are required for identification of multicomponent analytes

page 1 of 1

10B
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

E3104

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30W6

Lab Sample ID: 46732.59 Date(s) Analyzed: 06/21/01 06/21/01

Instrument ID (1): HP_15A Instrument ID (2): HP_15B

GC Column (1): DB-17MS ID: 0.32(mm) GC Column (2): DB-XLB ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1						
Aroclor-1242	2	9.77	9.65	9.75	459		
	3	10.58	10.59	10.69	646		
COLUMN 1	4	11.64	11.59	11.69	669		
	5					591	
	1	10.40	10.35	10.45	367		
	2						
	3	12.41	12.35	12.45	663		
COLUMN 2	4	12.63	12.59	12.69	752		
	5	13.14	13.10	13.20	726	627	5.9
	1						
Aroclor-1254	2	13.31	13.27	13.37	213		
	3	13.79	13.74	13.84	227		
COLUMN 1	4	14.31	14.26	14.36	194		
	5	14.99	14.95	15.05	147	195	
	1						
	2	13.03	12.97	13.07	495		
	3						
COLUMN 2	4	14.92	14.88	14.98	236		
	5	15.39	15.35	15.45	171	301	42.7
	1	14.31	14.26	14.36	110		
Aroclor-1260	2						
	3						
COLUMN 1	4	15.72	15.67	15.77	46.0		
	5	16.16	16.11	16.21	57.6	71.2	
	1						
	2						
	3	14.92	14.88	14.98	103		
COLUMN 2	4	16.09	16.05	16.15	36.0		
	5	16.32	16.28	16.38	54.9	64.6	9.7

At least 3 peaks are required for identification of multicomponent analytes

HYDROGEN USED AS CARRIER GAS FOR SAMPLE ANALYSES

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061406.D\ECD1A.CH Vial: 6
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061406.D\ECD2B.CH
Acq On : 14 Jun 2001 19:52 Operator: DDC
Sample : RESC5C Inst : HP_15
Misc : 5-441-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 8:38 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.59	7.35	488499	403758	19.5	17.4
22)	S DCB	18.28	18.70	501631	423965	19.4	17.9
	Target Compounds:						

COPY
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E3055
Signature Imelda M. Villar
Date 06/19/01

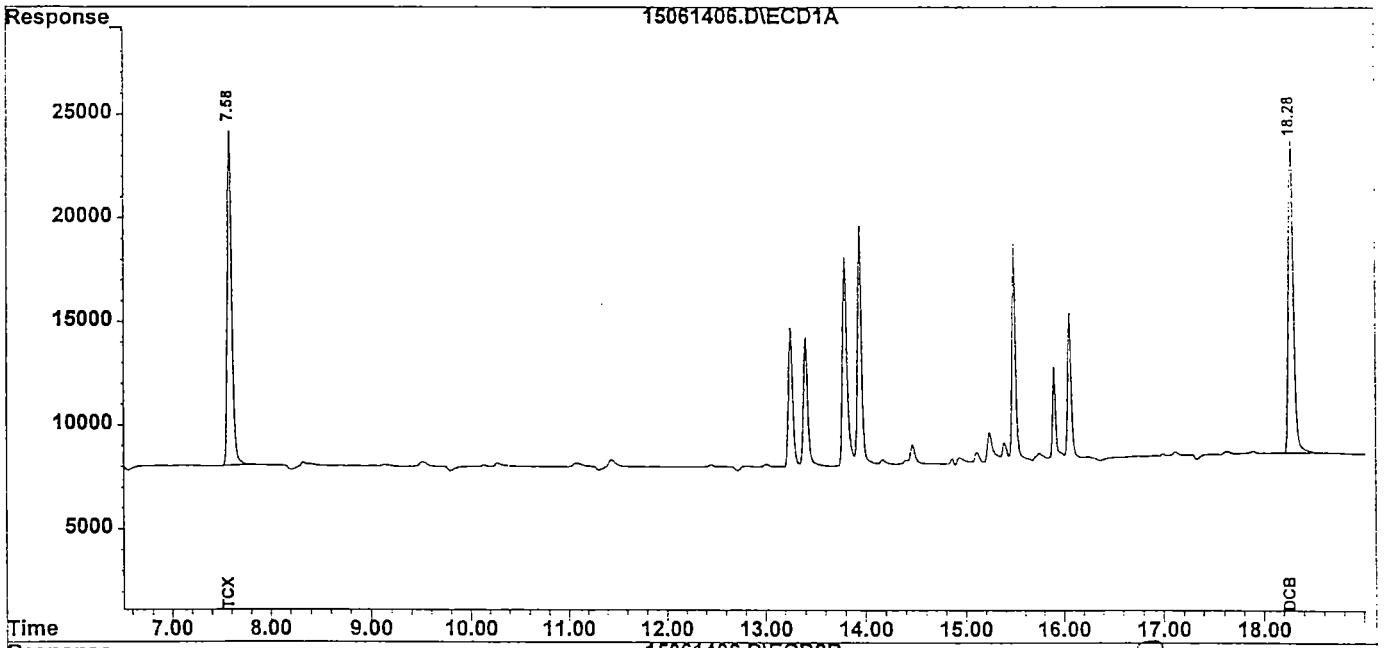
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

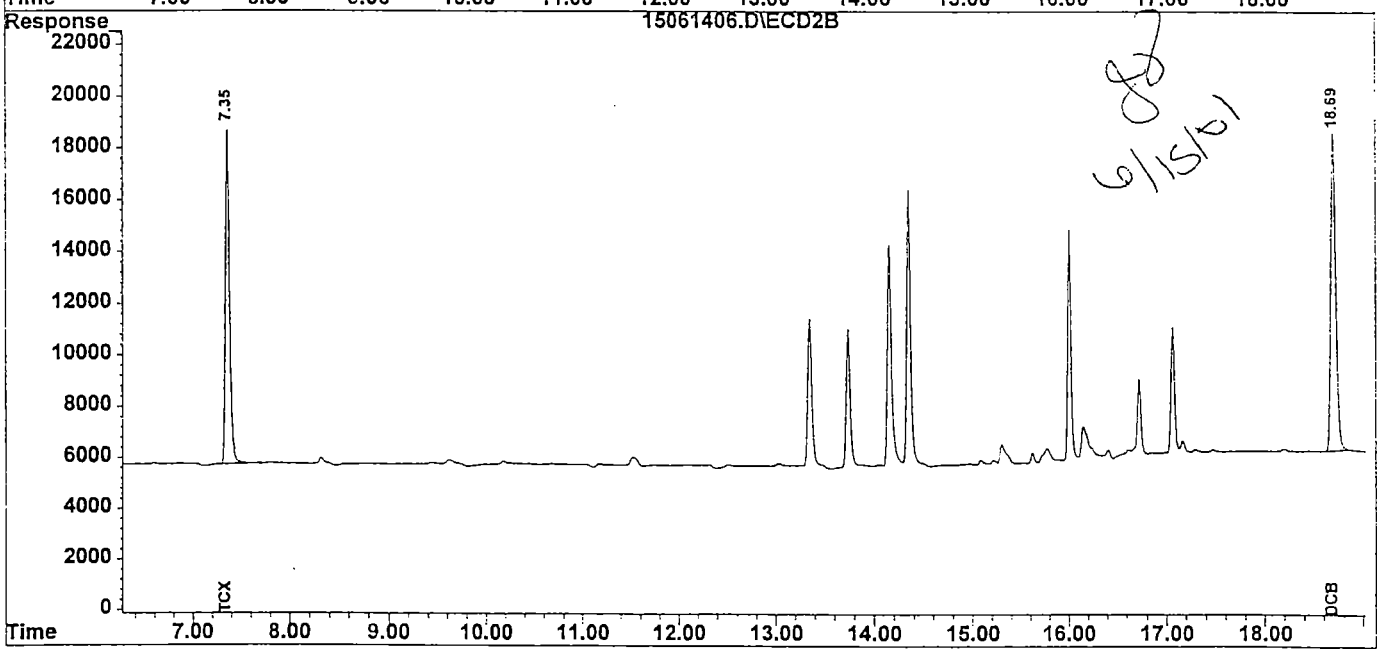
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061406.D\ECD1A.CH Vial: 6
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061406.D\ECD2B.CH
Acq On : 14 Jun 2001 19:52 Operator: DDC
Sample : RESC5C Inst : HP_15
Misc : 5-441-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 8:38 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/15/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061407.D\ECD1A.CH Vial: 7
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061407.D\ECD2B.CH
Acq On : 14 Jun 2001 20:15 Operator: DDC
Sample : AR1221L35C Inst : HP_15
Misc : 5-420-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 8:38 2001 Quant Results File: XPCBF14.RES
Multi Time: Jun 15 8:38 2001 Quant Results File: xspcbf14.RES

Pesticide Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001

Multi-Component Method : f:\hpchem\hp\15\data\06_14_01\xspcbf14.m
Title : PCB/TOXAPHENE
Last Update : Fri May 18 09:02:00 2001
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.59	7.35	505022	410406	20.1	17.7
22)	S DCB	18.28	18.70	549882	467335	21.2	19.7
	Target Compounds:						
	Multi-Component Compounds:						
2)	L2 Aroclor-1221	8.03	8.37	153944	122939	450.3	505.0
3)	L2 Aroclor-1221 {2}	8.21	8.71	93946	93519	433.7	524.6
4)	L2 Aroclor-1221 {3}	8.42	8.89	367743	267634	473.2	511.1
	Sum Aroclor-1221			615633	484092	1357.2	1540.6
	Average Aroclor-1221					452.390	513.550

ORIGINAL DOCUMENTS ARE INCLUDED
CSF 29294 SDG E3065
Signature Freda M. Kilbain
Date 06/19/01

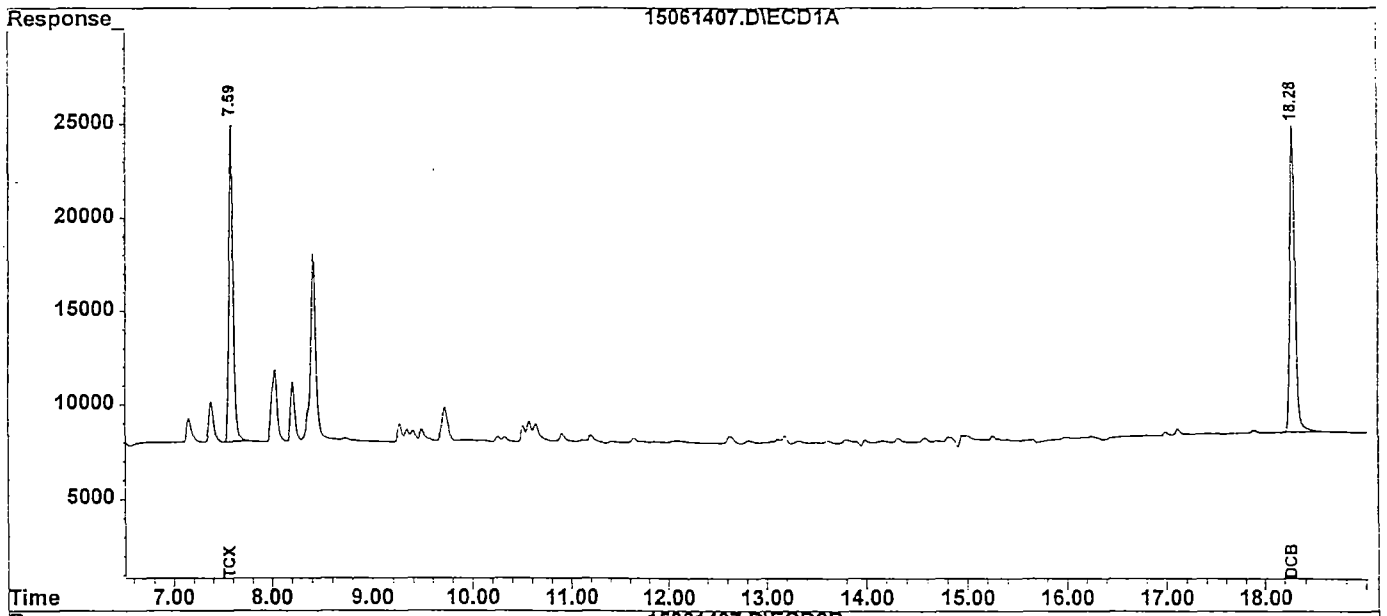
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

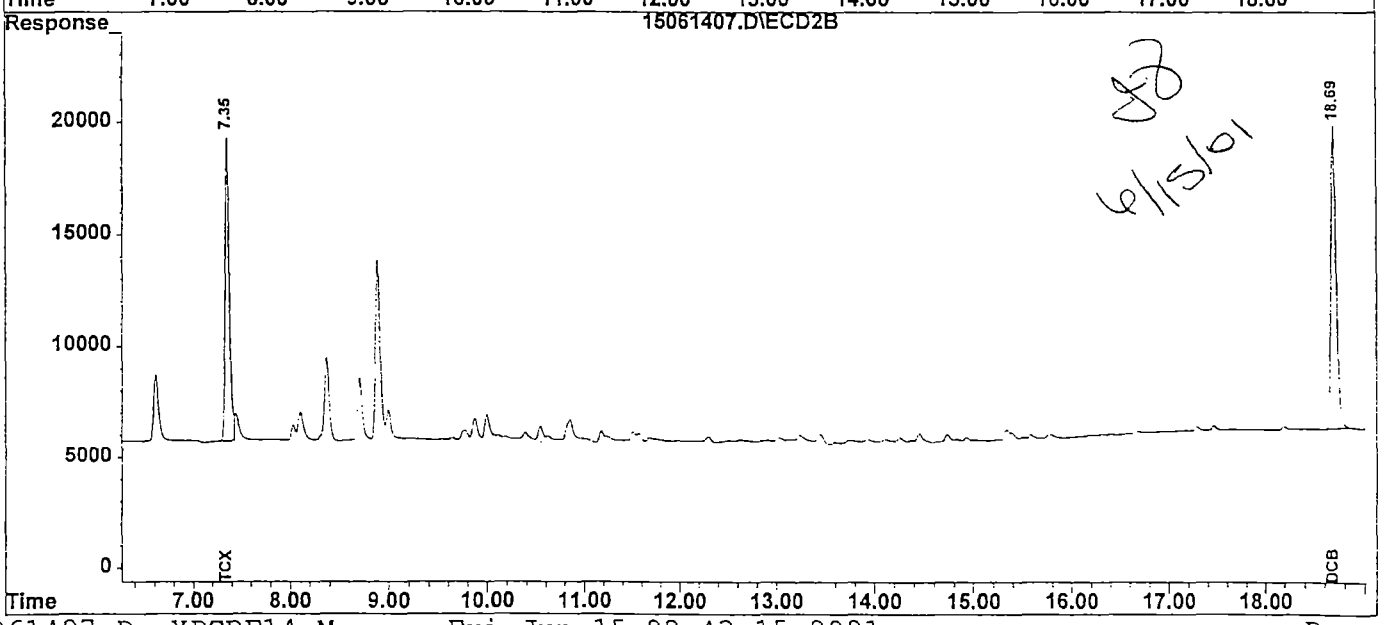
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061407.D\ECD1A.CH Vial: 7
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061407.D\ECD2B.CH
Acq On : 14 Jun 2001 20:15 Operator: DDC
Sample : AR1221L35C Inst : HP_15
Misc : 5-420-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 8:38 2001 Quant Results File: XPCBF14.RES
Quant Time: Jun 15 8:38 2001 Quant Results File: xspcbf14.RES

Pesticide Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001

Multi-Component Method : f:\hpchem\hp\15\data\06_14_01\xspcbf14.m
Title : PCB/TOXAPHENE
Last Update : Fri May 18 09:02:00 2001
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





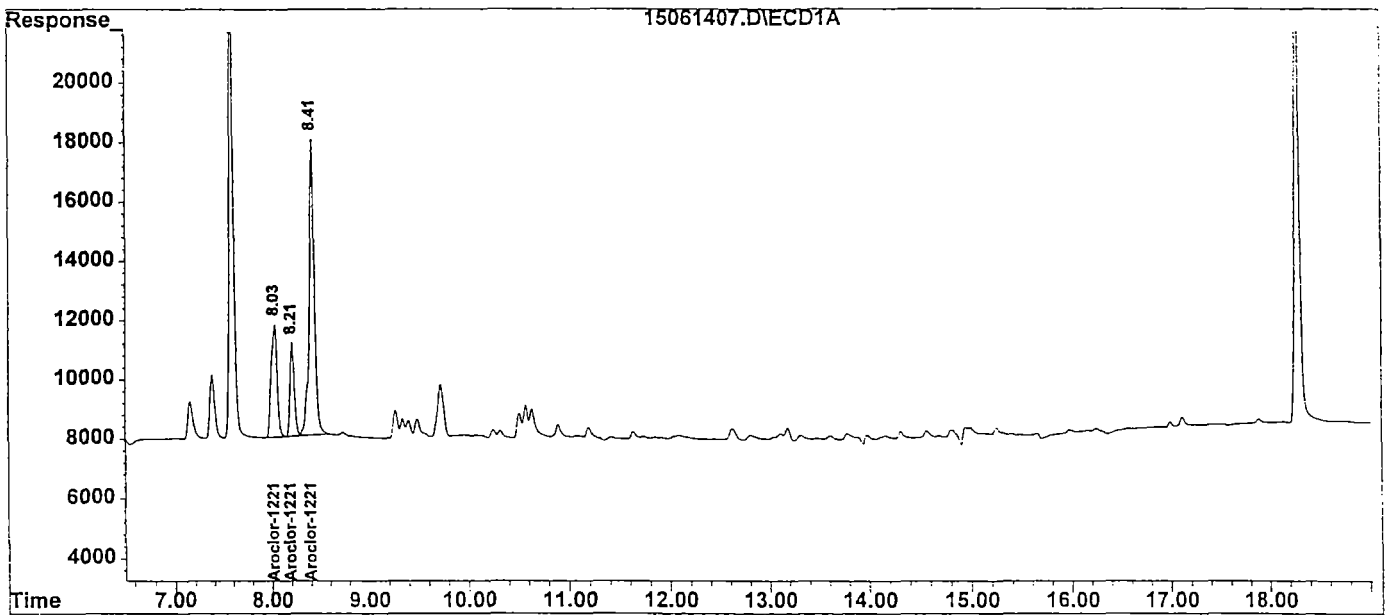
6/15/01

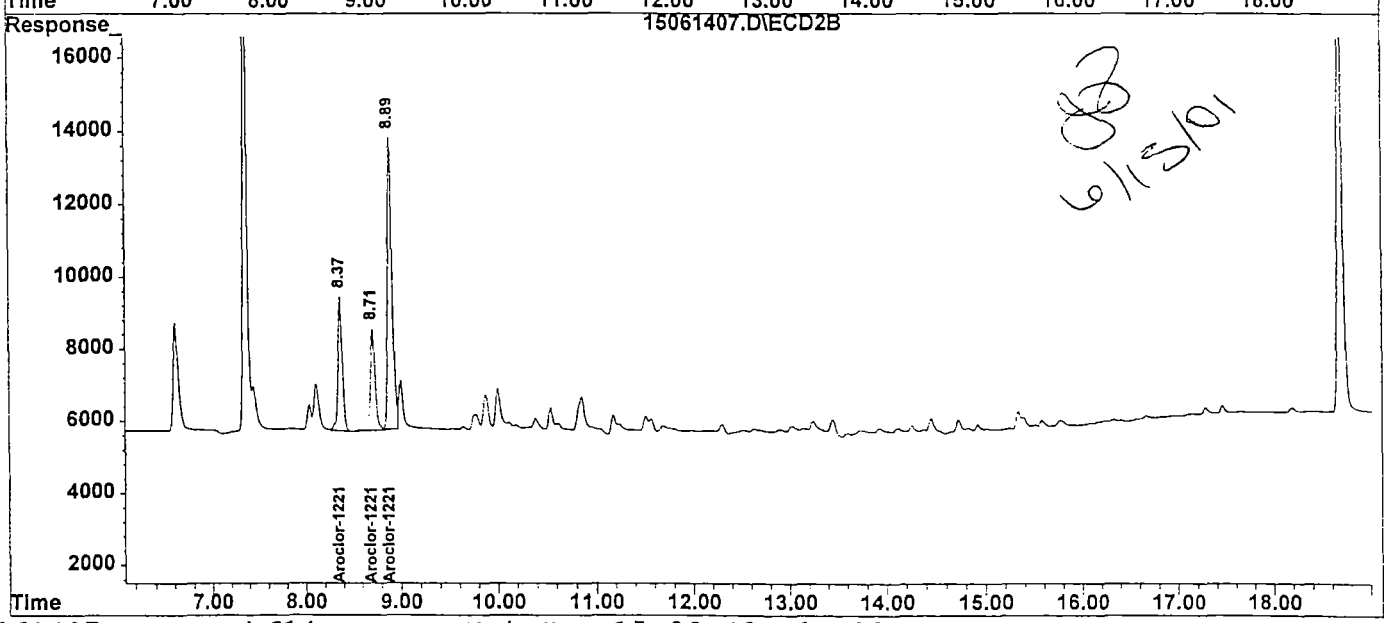
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061407.D\ECD1A.CH Vial: 7
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061407.D\ECD2B.CH
Acq On : 14 Jun 2001 20:15 Operator: DDC
Sample : AR1221L35C Inst : HP_15
Misc : 5-420-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 8:38 2001 Quant Results File: xspcbf14.RES
Quant Time: Jun 15 8:38 2001 Quant Results File: xspcbf14.RES

Pesticide Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001

Multi-Component Method : f:\hpchem\hp\15\data\06_14_01\xspcbf14.m
Title : PCB/TOXAPHENE
Last Update : Fri May 18 09:02:00 2001
Volume Inj. : 0.5uL
Signal #1 Phase : DB-MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 Signal #2 Info : .32
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/15/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061408.D\ECD1A.CH Vial: 8
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061408.D\ECD2B.CH
Acq On : 14 Jun 2001 20:38 Operator: DDC
Sample : AR1232L35C Inst : HP_15
Misc : 5-422-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 8:39 2001 Quant Results File: XPCBF14.RES
Multi Time: Jun 15 8:39 2001 Quant Results File: xspcbf14.RES

Pesticide Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001

Multi-Component Method : f:\hpchem\hp\15\data\06_14_01\xspcbf14.m
Title : PCB/TOXAPHENE
Last Update : Fri May 18 09:02:00 2001
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	7.59	7.35	494820	432479	19.7	18.7	
22)	S DCB	18.29	18.70	511764	430372	19.7	18.2	
	Target Compounds:							
	Multi-Component Compounds:							
5)	L3 Aroclor-1232	8.42	8.89	325664	242698	495.8	546.2	
6)	L3 Aroclor-1232 {2}	9.27	10.55	173181	108108	493.0	410.7	
7)	L3 Aroclor-1232 {3}	9.70	11.18	112293	113175	507.3	660.7	#
8)	L3 Aroclor-1232 {4}	10.52	12.40	183906	58844	636.7	583.0	
	Sum Aroclor-1232			795044	522826	2132.8	2200.5	
	Average Aroclor-1232					533.200	550.134	

ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E3065
Signature Imelda M. William
Date 06/19/01

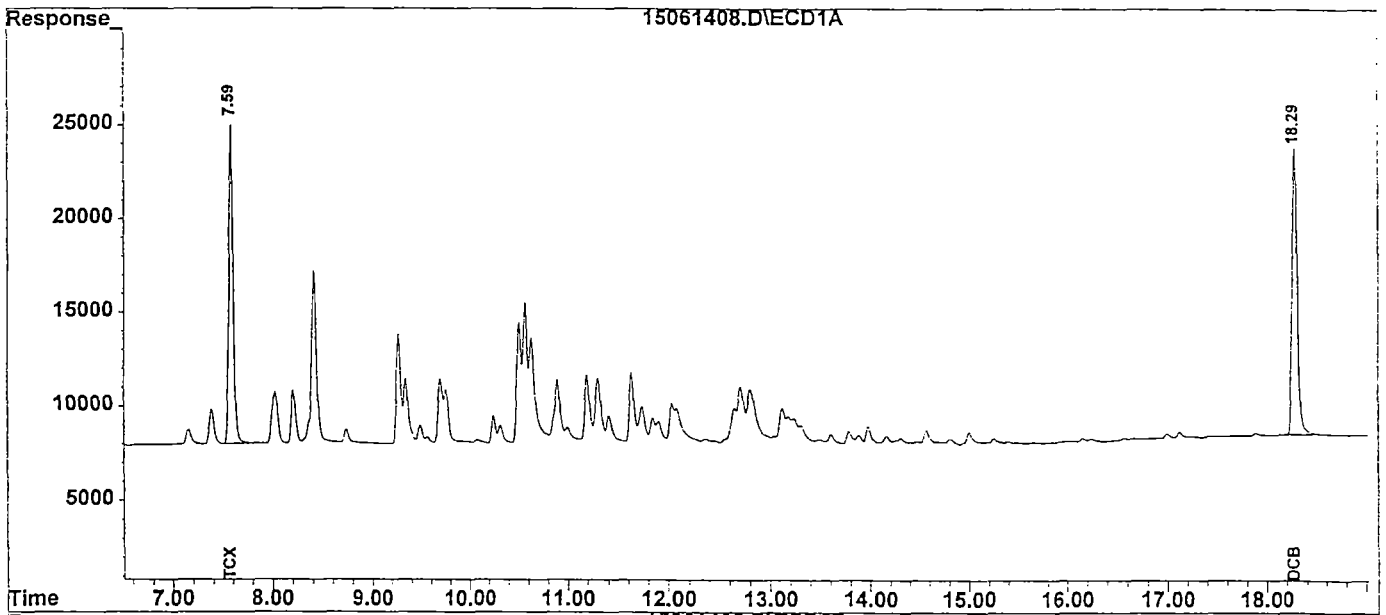
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

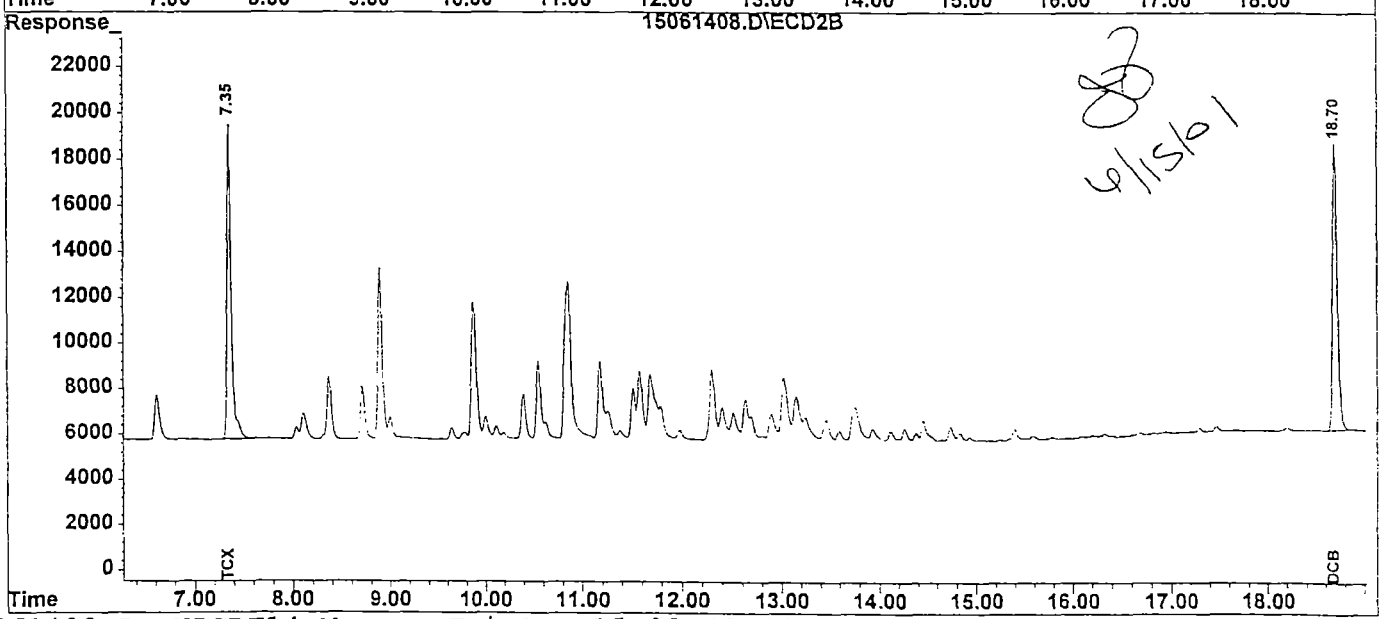
Chromatographic Report

```
Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061408.D\ECD1A.CH Vial: 8
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061408.D\ECD2B.CH
Acq On    : 14 Jun 2001  20:38                        Operator: DDC
Sample    : AR1232L35C                                Inst    : HP_15
Misc      : 5-422-6                                   Dilution: 1.00
IntFile Signal #1: events.e     IntFile Signal #2: events2.e
Quant Time: Jun 15  8:39 2001  Quant Results File: XPCBF14.RES
Quant Time: Jun 15  8:39 2001  Quant Results File: xspcbf14.RES

Pesticide Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-ICAL Path  : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update      : Thu Jun 07 08:46:05 2001

Multi-Component Method : f:\hpchem\hp\15\data\06_14_01\xspcbf14.m
Title                  : PCB/TOXAPHENE
Last Update            : Fri May 18 09:02:00 2001
Volume Inj.      : 0.5uL
Signal #1 Phase : DB-17MS            Signal #2 Phase: DB-XLB
Signal #1 Info  : .32 mm             Signal #2 Info : .32 mm
Signal #1 Inst  : HP_15A             Signal #2 Inst : HP_15B
```





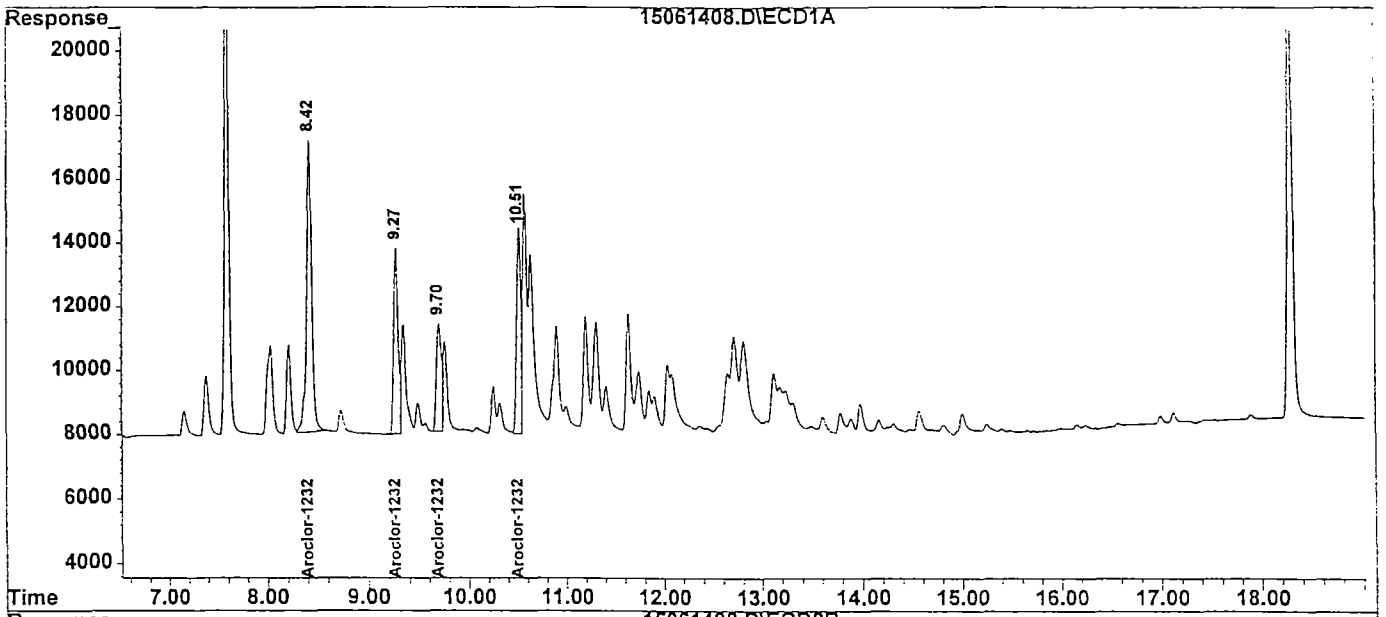
6/15/01

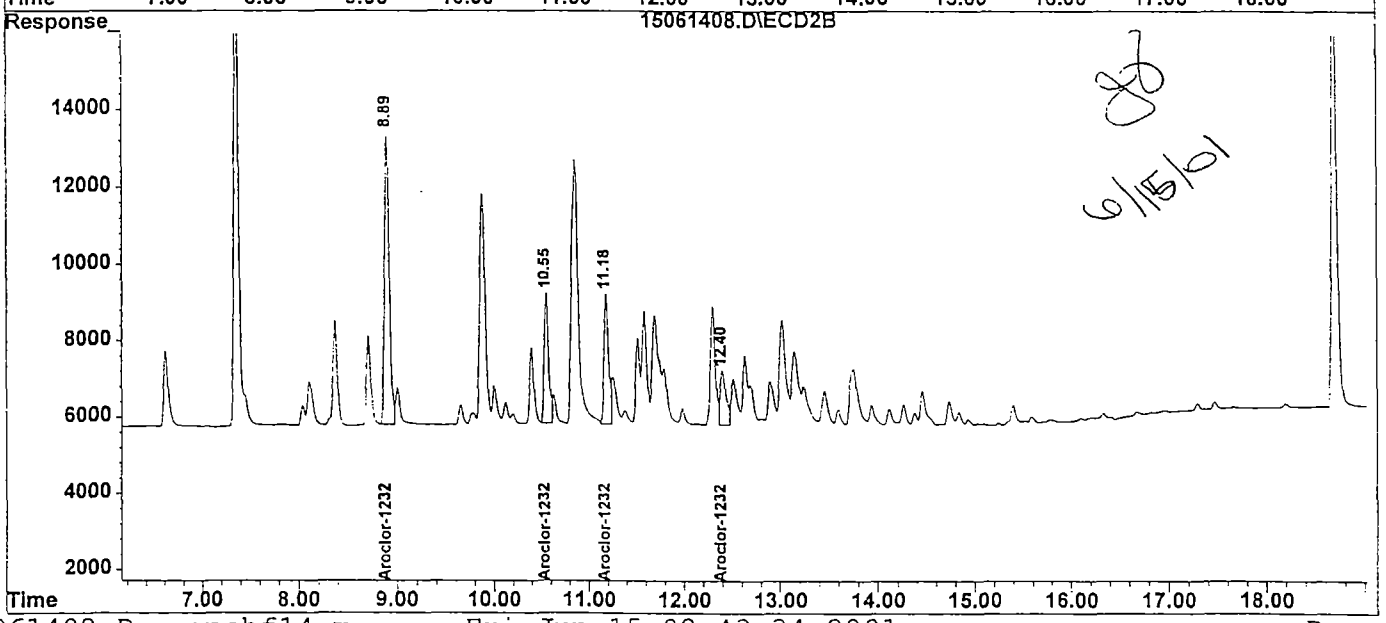
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061408.D\ECD1A.CH Vial: 8
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061408.D\ECD2B.CH
Acq On : 14 Jun 2001 20:38 Operator: DDC
Sample : AR1232L35C Inst : HP_15
Misc : 5-422-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 8:39 2001 Quant Results File: xspcbf14.RES
Quant Time: Jun 15 8:39 2001 Quant Results File: xspcbf14.RES

Pesticide Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001

Multi-Component Method : f:\hpchem\hp\15\data\06_14_01\xspcbf14.m
Title : PCB/TOXAPHENE
Last Update : Fri May 18 09:02:00 2001
Volume Inj. : 0.5uL
Signal #1 Phase : DB-MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 Signal #2 Info : .32
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/15/01

Response Factor Report HP_15

Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Calibration Files
L1 =15061409.D L2 =15061410.D L3 =15061411.D
L4 =15061412.D L5 =15061413.D

Compound	L1	L2	L3	L4	L5	Avg	%RSD
7) Aroclor-1242	664.6	676.1	569.7	519.1	480.1	581.9	14.93
8) Aroclor-1242 {2}	431.3	463.2	391.7	348.1	323.3	391.5	14.71
9) Aroclor-1242 {3}	1.2	1.2	1.0	0.9	0.8	1.0 E3	16.84
10) Aroclor-1242 {4}	626.9	669.2	572.6	515.9	488.1	574.5	13.09
11) Aroclor-1242 {5}	889.6	934.4	801.0	709.2	648.7	796.6	15.01

Signal #2 Calibration Files
L1 =15061409.D L2 =15061410.D L3 =15061411.D
L4 =15061412.D L5 =15061413.D

Compound	L1	L2	L3	L4	L5	Avg	%RSD
30) Aroclor-1242 #2	328.3	308.2	269.2	252.8	250.6	281.8	12.33
31) Aroclor-1242 {2} #2	458.3	527.1	490.8	465.0	452.7	478.8	6.41
32) Aroclor-1242 {3} #2	226.9	287.4	284.5	275.7	272.5	269.4	9.12
33) Aroclor-1242 {4} #2	296.2	332.6	310.4	297.7	298.3	307.0	5.02
34) Aroclor-1242 {5} #2	424.2	465.1	427.8	411.6	417.8	429.3	4.88

(#) = Out of Range

XPCBF14.M Fri Jun 15 08:27:47 2001

COPY
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E3OG5
Signature Fenelda M. Williams
Date 06/19/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061409.D\ECD1A.CH Vial: 9
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061409.D\ECD2B.CH
Acq On : 14 Jun 2001 21:01 Operator: DDC
Sample : AR1242L15C Inst : HP_15
Misc : 5-11-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 8:26 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	7.59	7.36	135054	105321	5.854	6.018	
22)	S DCB	18.29	18.70	152227	122815	11.1	12.0	
	Target Compounds:							
7)	L4 Aroclor-1242	8.42	10.40	66462	32829	129.0	176.6	#
8)	L4 Aroclor-1242 {2}	9.70	11.18	43127	45831	130.3	159.1	
[illegible]	L4 Aroclor-1242 {3}	10.64	12.40	118000	22686	111.0	118.9	
	L4 Aroclor-1242 {4}	11.65	12.64	62689	29618	134.8	177.9	#
11)	L4 Aroclor-1242 {5}	12.82	13.16	88964	42424	116.9	196.9	#
	Sum Aroclor-1242			379243	173387	622.1	829.5	
	Average Aroclor-1242					124.412	165.899	

ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E3065
Signature Arnelda M. Williams
Date 06/19/01

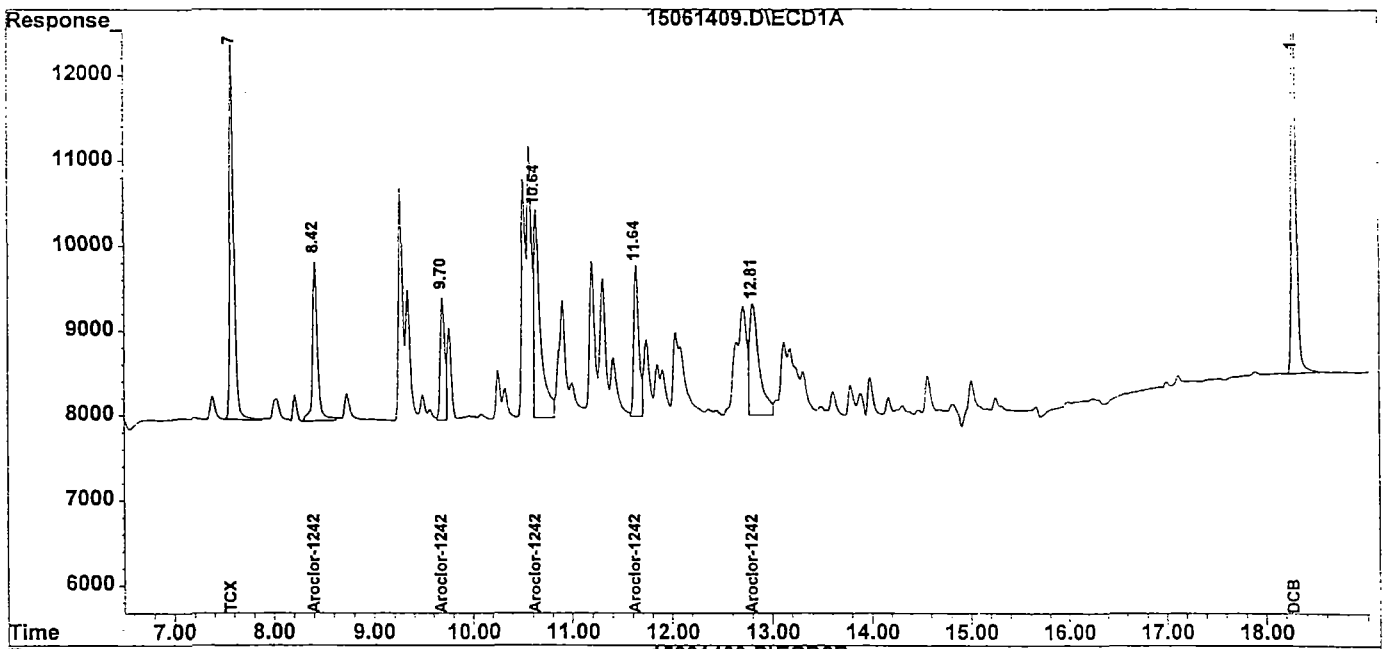
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

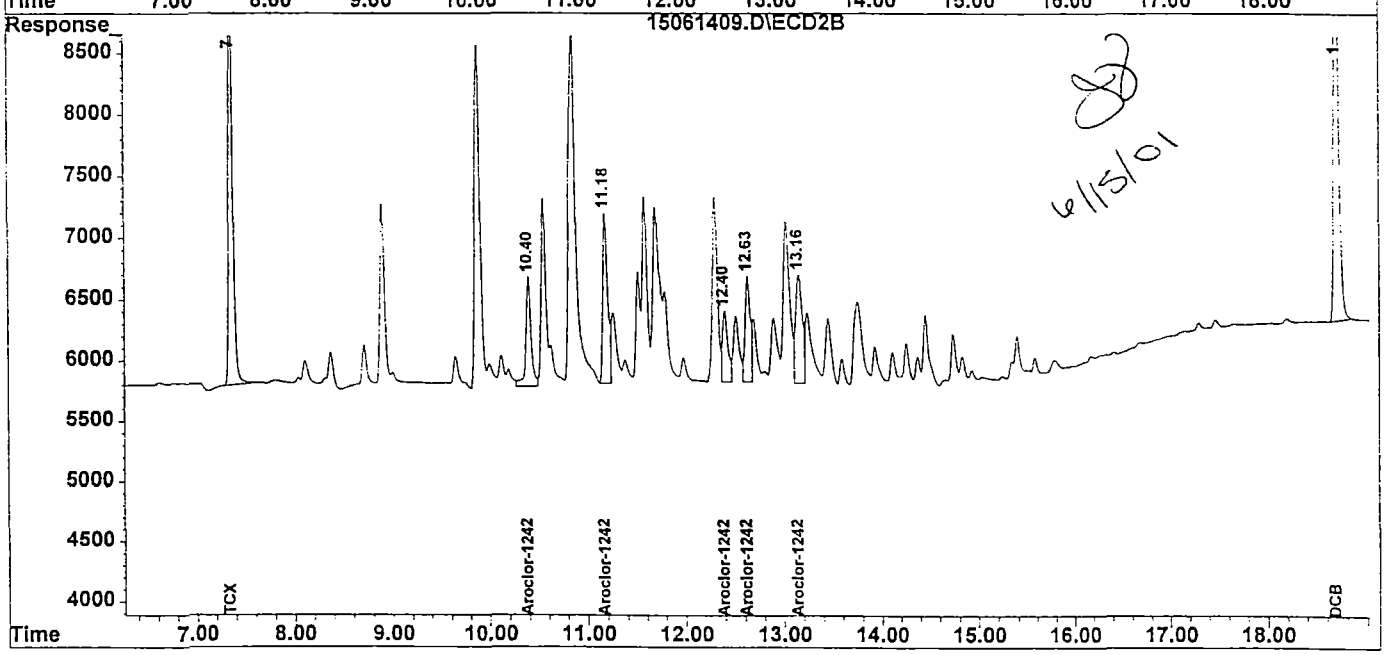
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061409.D\ECD1A.CH Vial: 9
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061409.D\ECD2B.CH
Acq On : 14 Jun 2001 21:01 Operator: DDC
Sample : AR1242L15C Inst : HP_15
Misc : 5-11-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 8:26 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_12_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/15/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061410.D\ECD1A.CH Vial: 10
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061410.D\ECD2B.CH
Acq On : 14 Jun 2001 21:25 Operator: DDC
Sample : AR1242L25C Inst : HP_15
Misc : 5-10-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 8:26 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	7.59	7.36	293407	241472	12.4	13.1	
22)	S DCB	18.29	18.70	312279	259315	17.8	19.2	
	Target Compounds:							
7)	L4 Aroclor-1242	8.42	10.40	135212	61630	249.8	284.2	
8)	L4 Aroclor-1242 {2}	9.70	11.18	92643	105430	263.4	325.3	
[illegible]	L4 Aroclor-1242 {3}	10.64	12.40	239337	57487	222.4	291.0	#
	L4 Aroclor-1242 {4}	11.64	12.64	133840	66530	268.2	338.5	#
11)	L4 Aroclor-1242 {5}	12.81	13.15	186882	93026	241.7	351.0	#
	Sum Aroclor-1242			787913	384103	1245.4	1590.1	
	Average Aroclor-1242					249.087	318.015	

COPY
ORIGINAL DOCUMENTS ARE INCLUDED
DSF 29294 SDG E3065
Signature [illegible]
Date 06/19/01

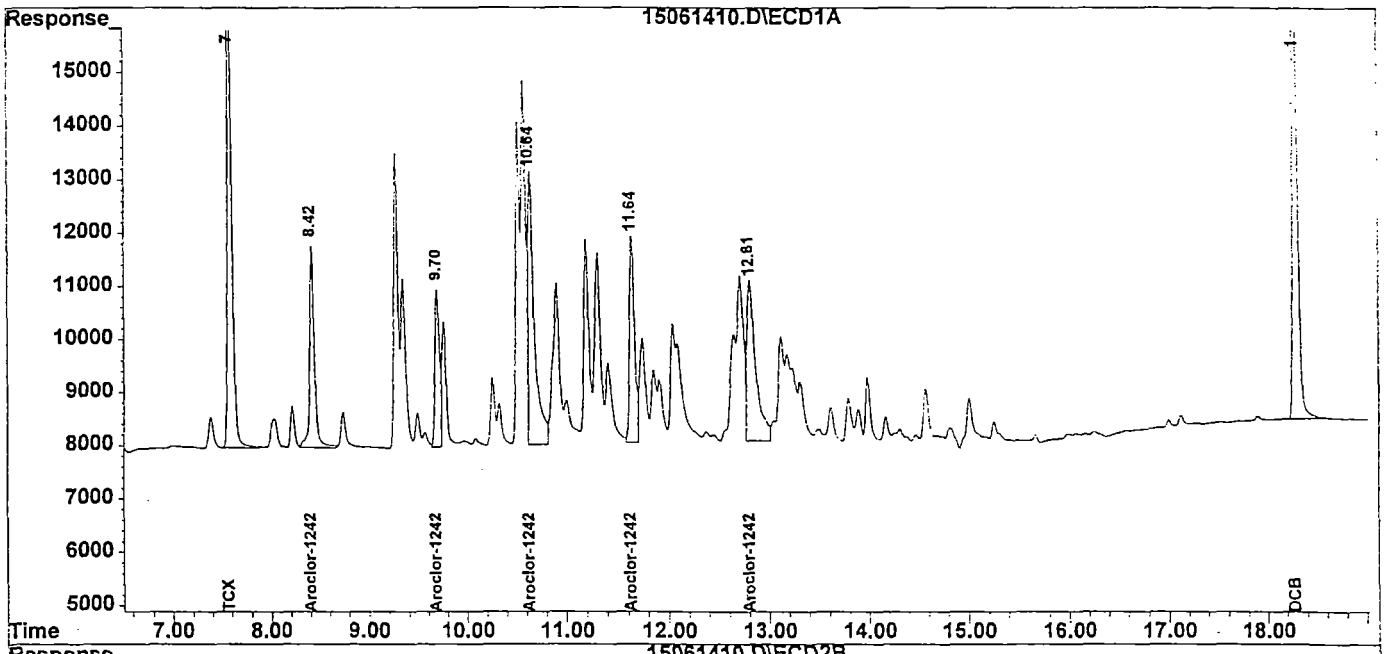
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

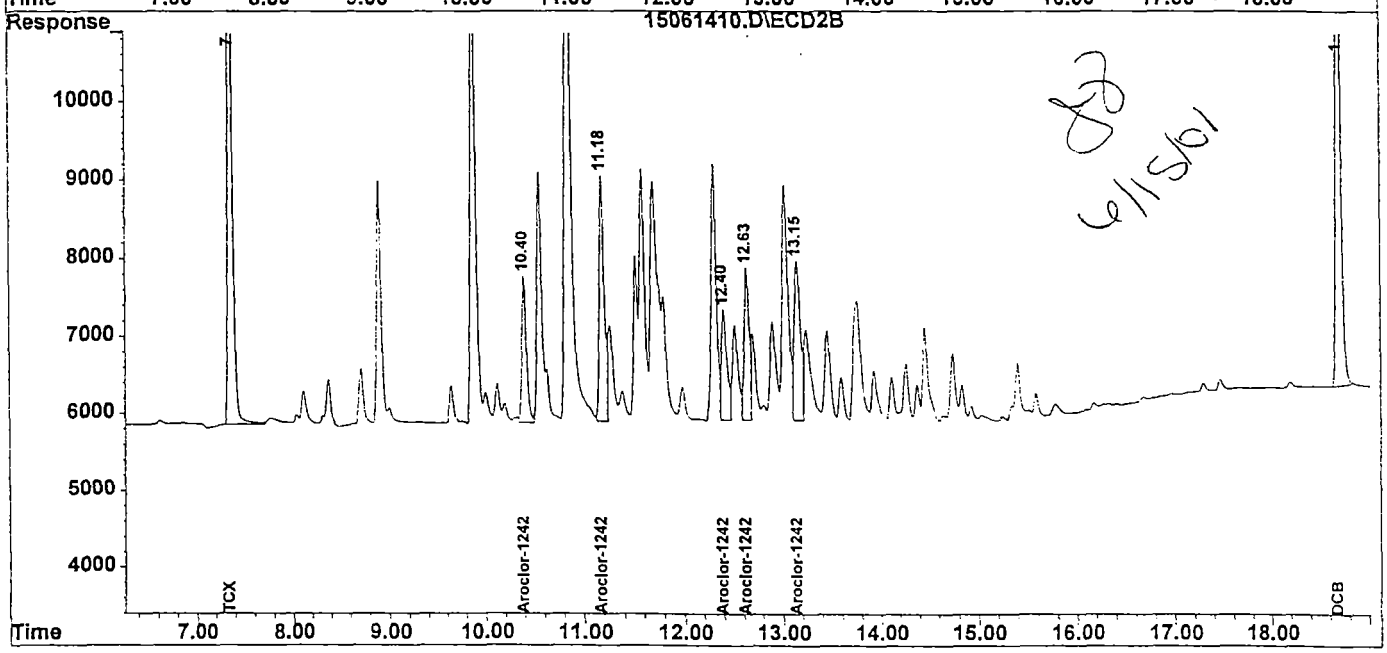
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061410.D\ECD1A.CH Vial: 10
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061410.D\ECD2B.CH
Acq On : 14 Jun 2001 21:25 Operator: DDC
Sample : AR1242L25C Inst : HP_15
Misc : 5-10-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 8:26 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





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6/15/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061411.D\ECD1A.CH Vial: 11
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061411.D\ECD2B.CH
Acq On : 14 Jun 2001 21:48 Operator: DDC
Sample : AR1242L35C Inst : HP_15
Misc : 5-9-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 8:27 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	7.59	7.36	518572	440874	20.8	22.2	
22)	S DCB	18.29	18.70	546107	469999	25.5	27.7	
	Target Compounds:							
7)	L4 Aroclor-1242	8.42	10.40	227865	107691	395.8	449.7	
8)	L4 Aroclor-1242 {2}	9.70	11.18	156662	196329	420.4	526.5	#
	L4 Aroclor-1242 {3}	10.64	12.40	397903	113799	363.3	522.3	#
	L4 Aroclor-1242 {4}	11.64	12.64	229032	124159	426.9	534.7	#
11)	L4 Aroclor-1242 {5}	12.81	13.15	320387	171113	402.6	534.0	#
	Sum Aroclor-1242			1331849	713090	2009.1	2567.3	
	Average Aroclor-1242					401.813	513.459	

ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E3065
Signature Anne de M. Vallain
Date 06/19/01

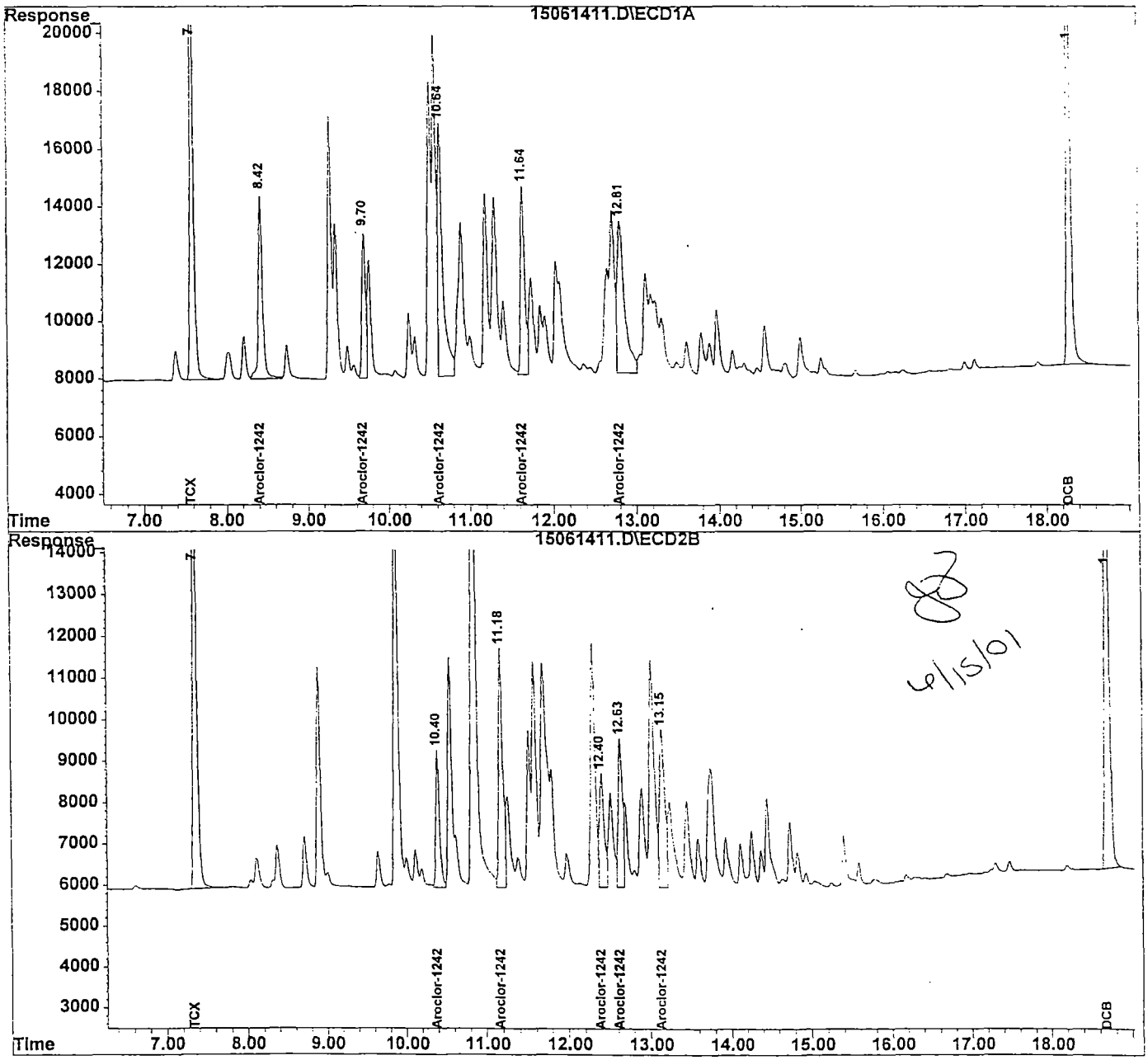
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061411.D\ECD1A.CH Vial: 11
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061411.D\ECD2B.CH
Acq On : 14 Jun 2001 21:48 Operator: DDC
Sample : AR1242L35C Inst : HP_15
Misc : 5-9-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 8:27 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B



Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061412.D\ECD1A.CH Vial: 12
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061412.D\ECD2B.CH
Acq On : 14 Jun 2001 22:11 Operator: DDC
Sample : AR1242L45C Inst : HP_15
Misc : 5-8-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 8:27 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	7.59	7.36	988426	882087	40.0	43.7	
2)	S DCB	18.29	18.70	967958	871636	41.2	45.6	
	Target Compounds:							
7)	L4 Aroclor-1242	8.42	10.40	415251	202266	711.8	784.0	
8)	L4 Aroclor-1242 {2}	9.70	11.18	278483	371961	724.9	887.2	
[illegible]	L4 Aroclor-1242 {3}	10.64	12.40	710315	220563	653.5	916.0	#
[illegible]	L4 Aroclor-1242 {4}	11.64	12.64	412715	238124	738.2	902.3	
11)	L4 Aroclor-1242 {5}	12.81	13.15	567320	329287	696.0	896.7	#
	Sum Aroclor-1242			2384084	1362201	3524.3	4386.2	
	Average Aroclor-1242					704.857	877.231	

ORIGINAL DOCUMENTS
SDG E3065
Date 29294
Signature Anetta M. Willian
Date 06/19/01

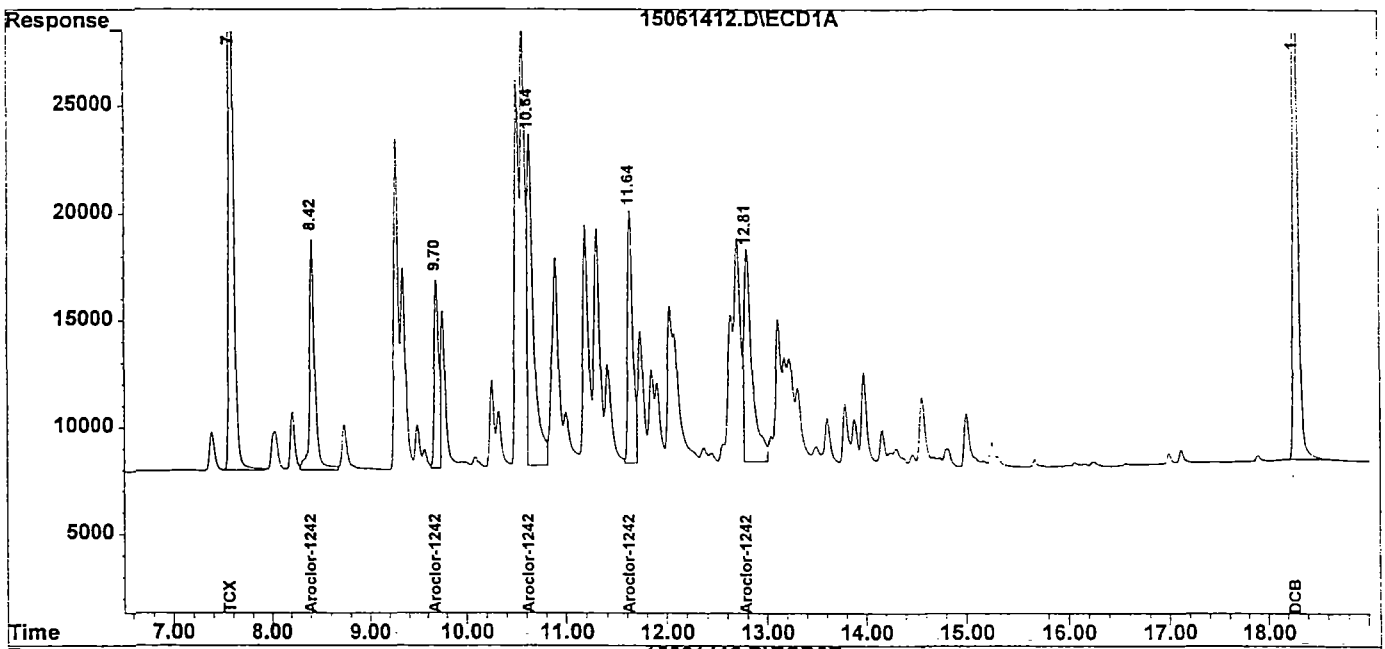
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

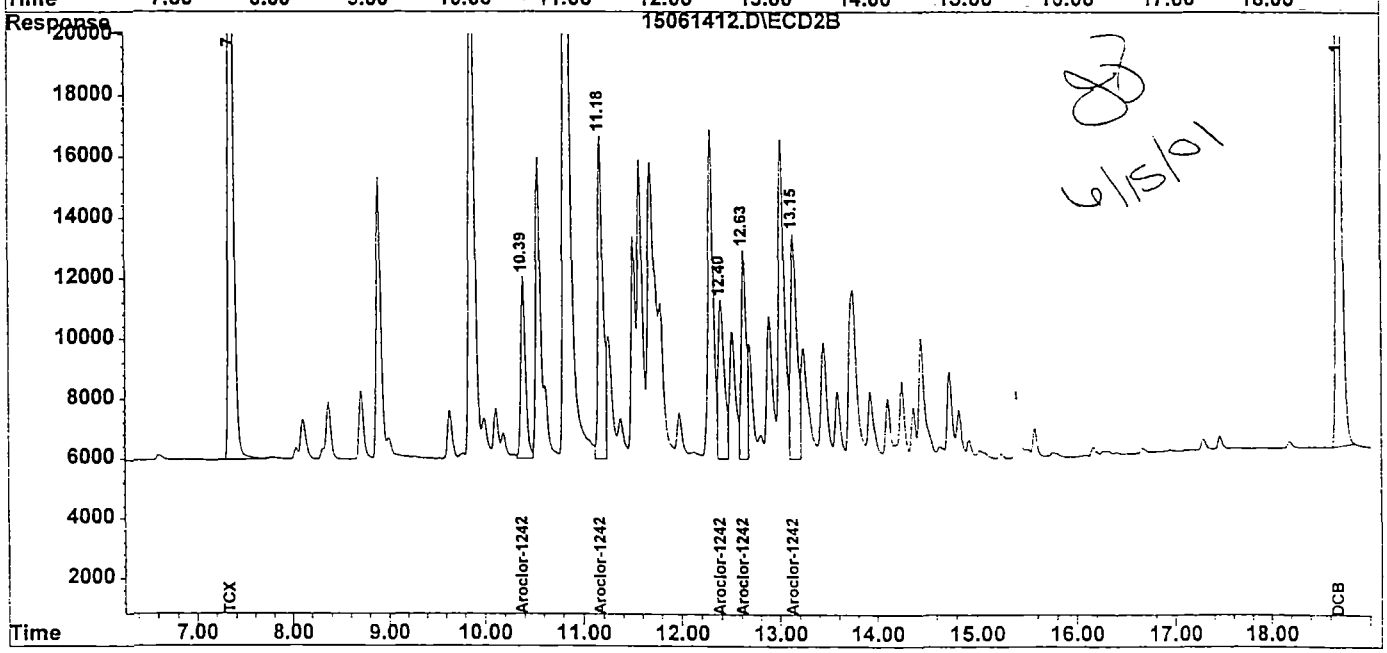
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061412.D\ECD1A.CH Vial: 12
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061412.D\ECD2B.CH
Acq On : 14 Jun 2001 22:11 Operator: DDC
Sample : AR1242L45C Inst : HP_15
Misc : 5-8-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 8:27 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/15/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061413.D\ECD1A.CH Vial: 13
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061413.D\ECD2B.CH
Acq On : 14 Jun 2001 22:34 Operator: DDC
Sample : AR1242L55C Inst : HP_15
Misc : 5-7-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 8:27 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.59	7.36	1975730	1848939	77.9 E	86.9 E
22)	S DCB	18.29	18.70	1717429	1544713	67.4 E	72.3 E
	Target Compounds:						
7)	L4 Aroclor-1242	8.42	10.40	768115	400930	1312.3	1483.4 E
8)	L4 Aroclor-1242 {2}	9.70	11.18	517249	724398	1329.8 E	1599.7 E
	L4 Aroclor-1242 {3}	10.64	12.40	1304120	435981	1235.5	1696.4 E#
	L4 Aroclor-1242 {4}	11.64	12.63	780967	477310	1372.8 E	1654.7 E
11)	L4 Aroclor-1242 {5}	12.81	13.15	1037847	668498	1277.4	1666.2 E#
	Sum Aroclor-1242			4408298	2707116	6527.8	8100.5
	Average Aroclor-1242					1305.570	1620.091

ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG F3065
Signature Amelia M. Williams
Date 06/19/01

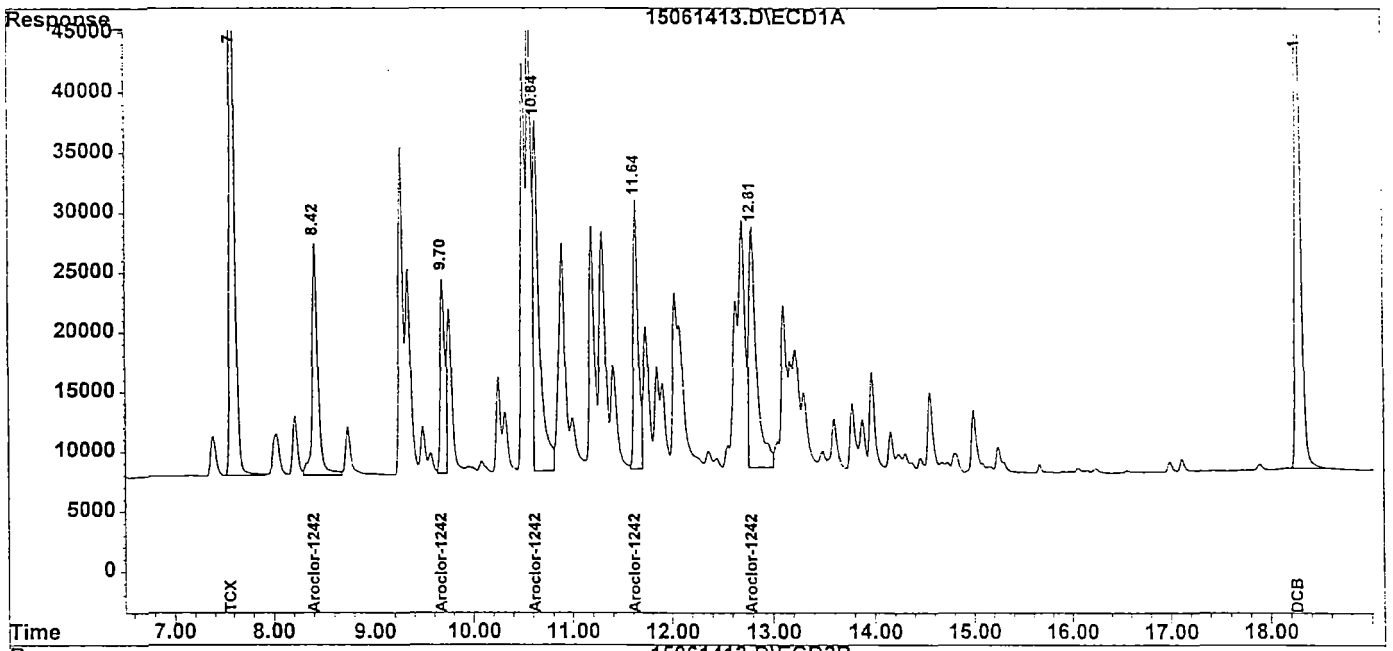
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

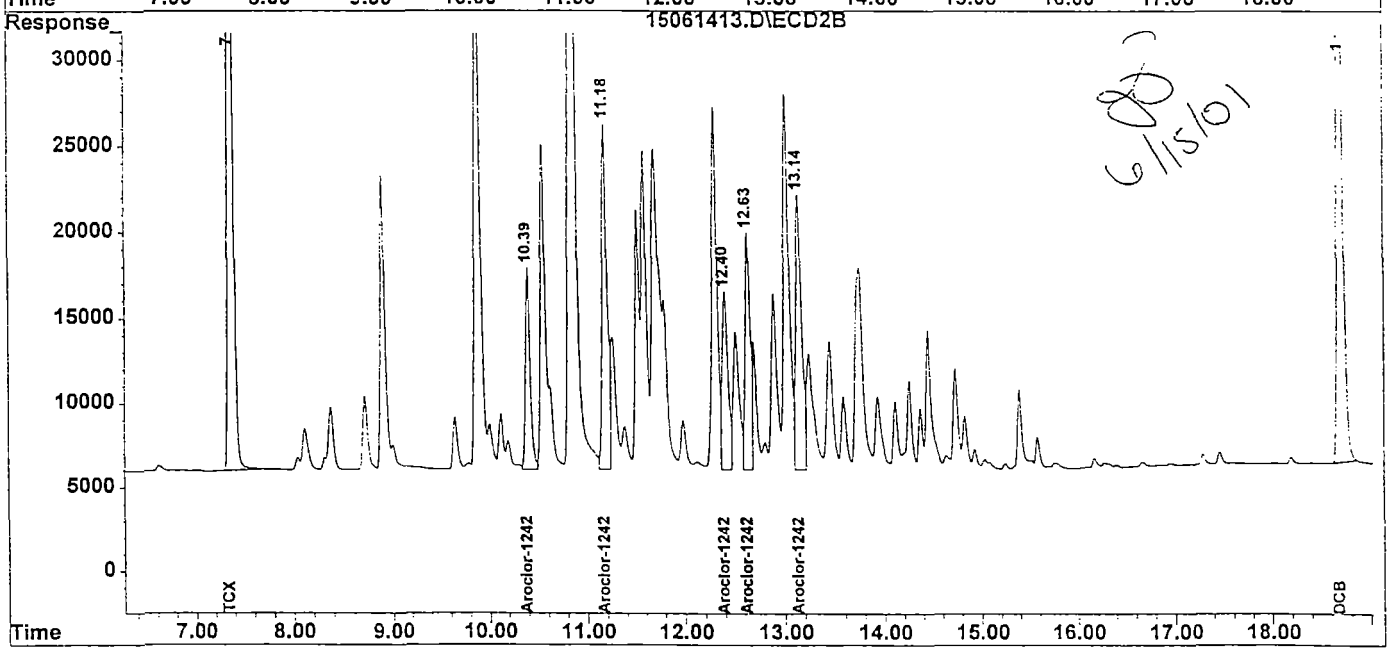
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061413.D\ECD1A.CH Vial: 13
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061413.D\ECD2B.CH
Acq On : 14 Jun 2001 22:34 Operator: DDC
Sample : AR1242L55C Inst : HP_15
Misc : 5-7-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 8:27 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/15/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061414.D\ECD1A.CH Vial: 14
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061414.D\ECD2B.CH
Acq On : 14 Jun 2001 22:57 Operator: DDC
Sample : AR1248L35C Inst : HP_15
Misc : 5-424-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 8:40 2001 Quant Results File: XPCBF14.RES
Multi Time: Jun 15 8:40 2001 Quant Results File: xspcbf14.RES

Pesticide Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001

Multi-Component Method : f:\hpchem\hp\15\data\06_14_01\xspcbf14.m
Title : PCB/TOXAPHENE
Last Update : Fri May 18 09:02:00 2001
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	7.59	7.36	456902	401121	18.2	17.3	
22)	S DCB	18.29	18.70	479601	433798	18.5	18.3	
	Target Compounds:							
	Multi-Component Compounds:							
14)	L5 Aroclor-1248	9.28	9.88	166254	208381	497.5	517.1	
15)	L5 Aroclor-1248 {2}	10.52	11.58	249357	343083	739.1	620.5	
16)	L5 Aroclor-1248 {3}	11.41	12.52	185532	125805	325.2	591.7	#
17)	L5 Aroclor-1248 {4}	11.75	13.25	199244	227804	435.3	520.0	
18)	L5 Aroclor-1248 {5}	13.19f	13.59	367814	89737	420.0	786.4	#
	Sum Aroclor-1248			1168202	994810	2417.1	3035.6	
	Average Aroclor-1248					483.416	607.123	

COPY
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG 53065
Signature Arnelda M. Williams
Date 06/19/01

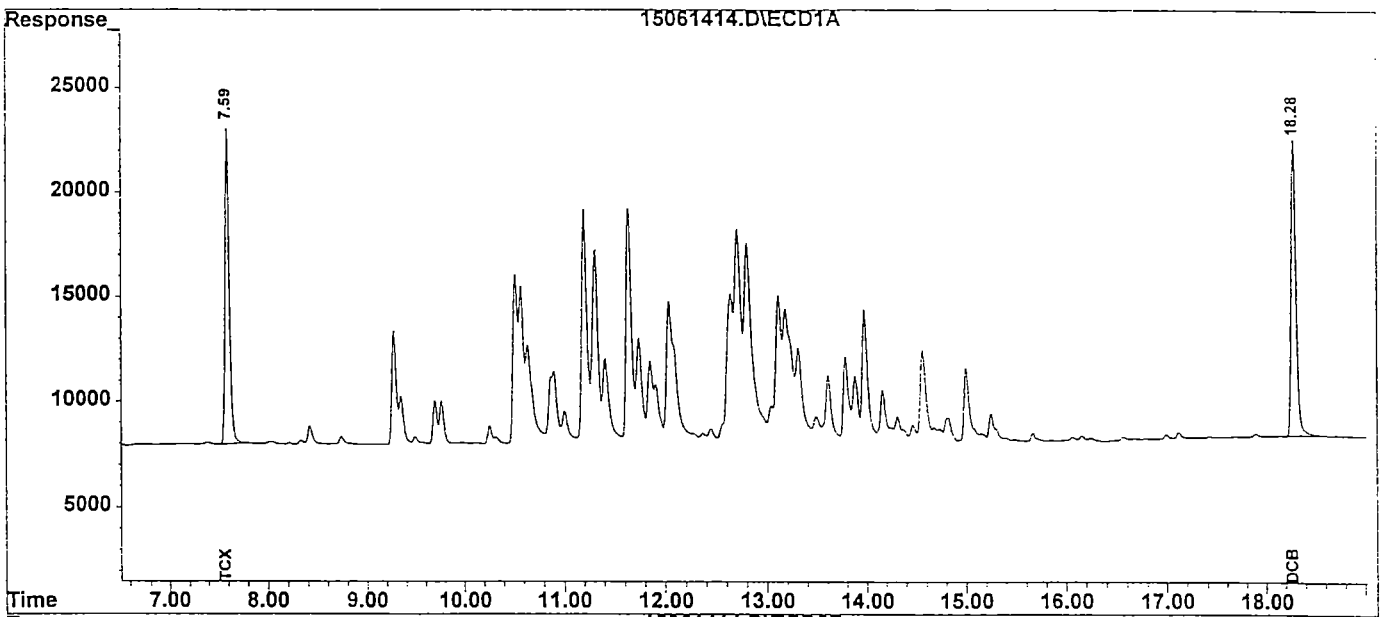
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

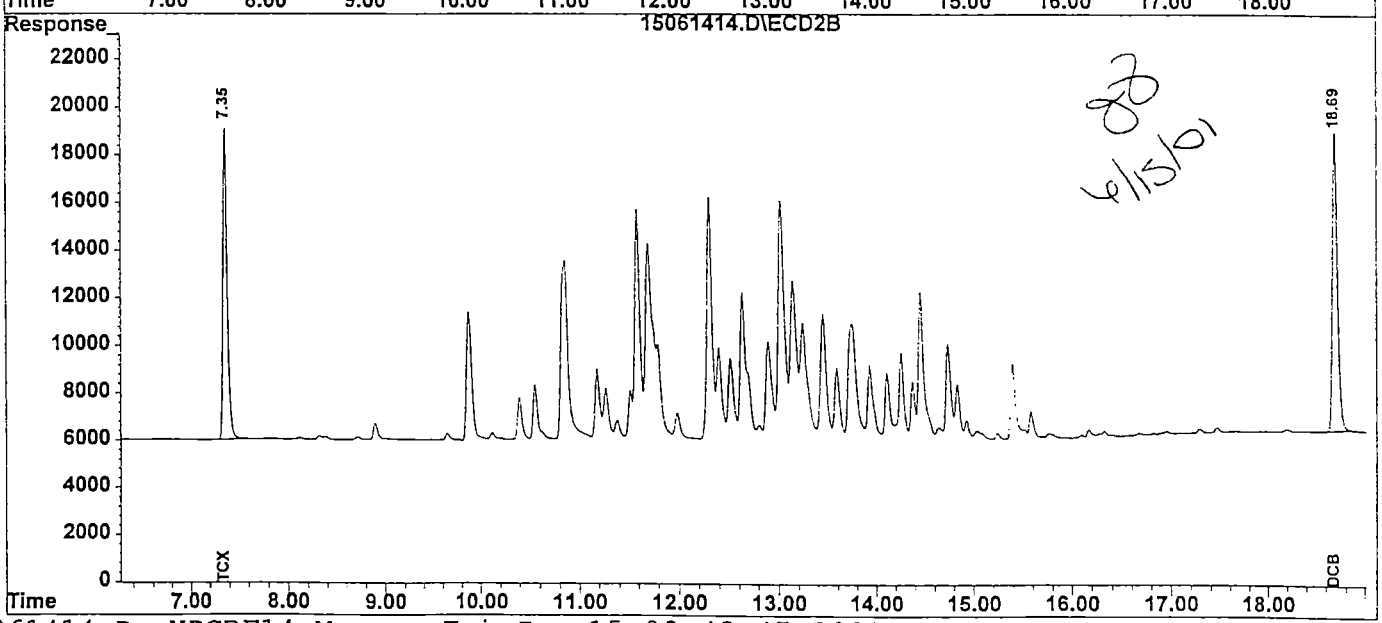
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061414.D\ECD1A.CH Vial: 14
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061414.D\ECD2B.CH
Acq On : 14 Jun 2001 22:57 Operator: DDC
Sample : AR1248L35C Inst : HP_15
Misc : 5-424-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 8:40 2001 Quant Results File: XPCBF14.RES
Quant Time: Jun 15 8:40 2001 Quant Results File: xspcbf14.RES

Pesticide Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001

Multi-Component Method : f:\hpchem\hp\15\data\06_14_01\xspcbf14.m
Title : PCB/TOXAPHENE
Last Update : Fri May 18 09:02:00 2001
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





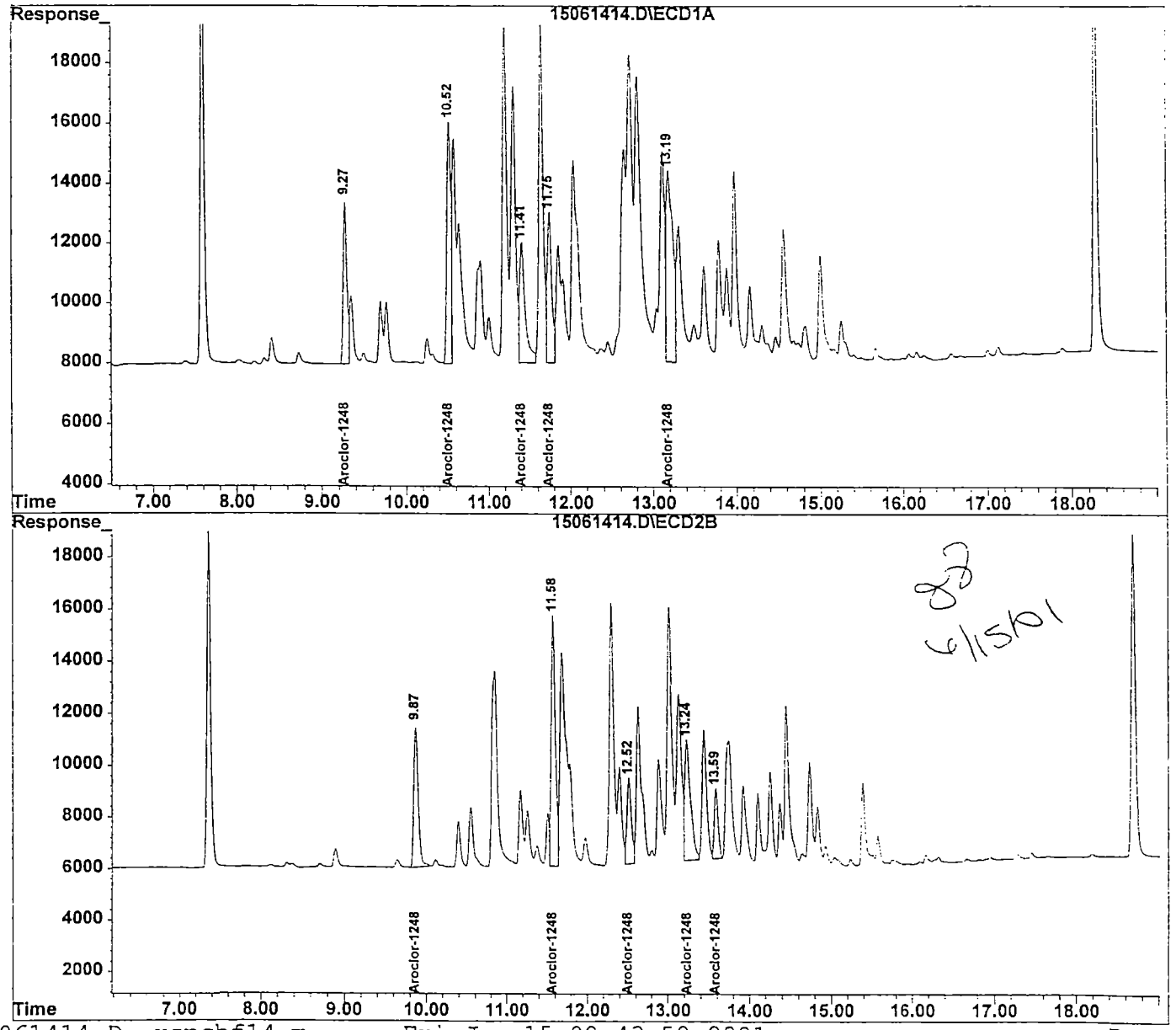
6/15/01

Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061414.D\ECD1A.CH Vial: 14
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061414.D\ECD2B.CH
Acq On : 14 Jun 2001 22:57 Operator: DDC
Sample : AR1248L35C Inst : HP_15
Misc : 5-424-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 8:40 2001 Quant Results File: xspcbf14.RES
Quant Time: Jun 15 8:40 2001 Quant Results File: xspcbf14.RES

Pesticide Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-ICAL Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001

Multi-Component Method : f:\hpchem\hp\15\data\06_14_01\xspcbf14.m
Title : PCB/TOXAPHENE
Last Update : Fri May 18 09:02:00 2001
Volume Inj. : 0.5uL
Signal #1 Phase : DB-MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 Signal #2 Info : .32
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B



Response Factor Report HP_15

Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Calibration Files
L1 =15061415.D L2 =15061416.D L3 =15061417.D
L4 =15061418.D L5 =15061419.D

Compound	L1	L2	L3	L4	L5	Avg	%RSD
12) Aroclor-1254	1.4	1.2	1.2	1.0	1.0	1.2	E3 13.54
13) Aroclor-1254 {2}	852.7	790.9	770.1	677.3	619.2	742.0	12.55
14) Aroclor-1254 {3}	1.1	1.1	1.1	1.0	0.9	1.0	E3 7.82
15) Aroclor-1254 {4}	1.0	1.0	1.0	0.9	0.8	0.9	E3 10.60
16) Aroclor-1254 {5}	811.8	756.0	796.8	768.7	757.6	778.2	3.20

Signal #2 Calibration Files
L1 =15061415.D L2 =15061416.D L3 =15061417.D
L4 =15061418.D L5 =15061419.D

Compound	L1	L2	L3	L4	L5	Avg	%RSD
35) Aroclor-1254 #2	393.4	384.0	360.0	337.5	332.9	361.6	7.48
36) Aroclor-1254 {2} #2	470.2	462.8	490.7	474.1	478.2	475.2	2.17
37) Aroclor-1254 {3} #2	530.2	520.9	542.0	507.1	492.3	518.5	3.75
38) Aroclor-1254 {4} #2	794.3	731.3	766.5	720.7	687.5	740.1	5.60
39) Aroclor-1254 {5} #2	925.6	871.1	934.8	917.5	925.4	914.9	2.76

) = Out of Range

XPCBF14.M Fri Jun 15 08:31:05 2001

ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG F3065
Signature Amelia M. Williams
Date 06/19/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061415.D\ECD1A.CH Vial: 15
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061415.D\ECD2B.CH
Acq On : 14 Jun 2001 23:21 Operator: DDC
Sample : AR1254L15C Inst : HP_15
Misc : 5-6-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 8:30 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	7.59	7.36	139309	117132	5.289	5.210	
22)	S DCB	18.29	18.70	132238	114875	4.911	4.990	
	Target Compounds:							
12)	L6 Aroclor-1254	12.63	12.31	135419	39342	116.8	158.0	#
13)	L6 Aroclor-1254 {2}	13.32f	13.03f	85268	47021	115.9	172.1	#
	L6 Aroclor-1254 {3}	13.79f	13.94	113016	53024	144.2	155.1	
	L6 Aroclor-1254 {4}	14.32	14.93	104271	79434	129.4	137.7	
16)	L6 Aroclor-1254 {5}	15.00	15.40	81180	92558	157.5	196.5	
	Sum Aroclor-1254			519155	311378	663.8	819.3	
	Average Aroclor-1254					132.766	163.869	

ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E3055
Signature Brenda M. Williams
Date 06/19/01

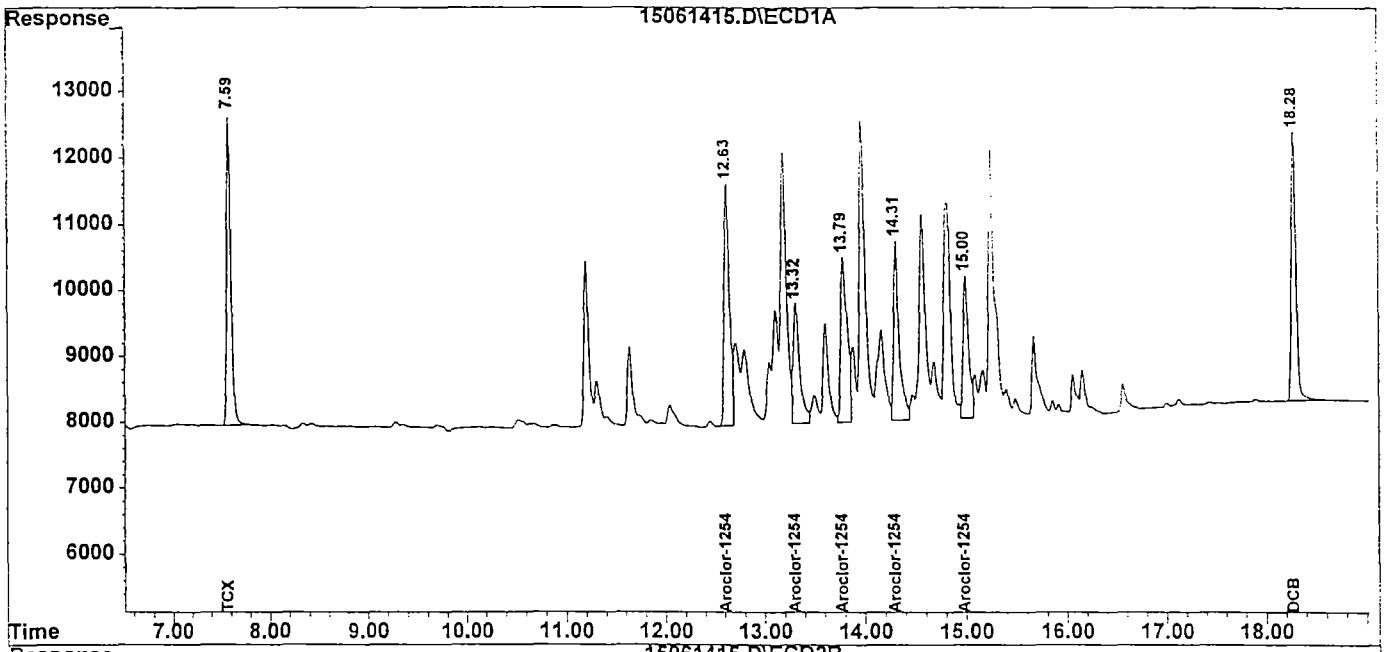
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

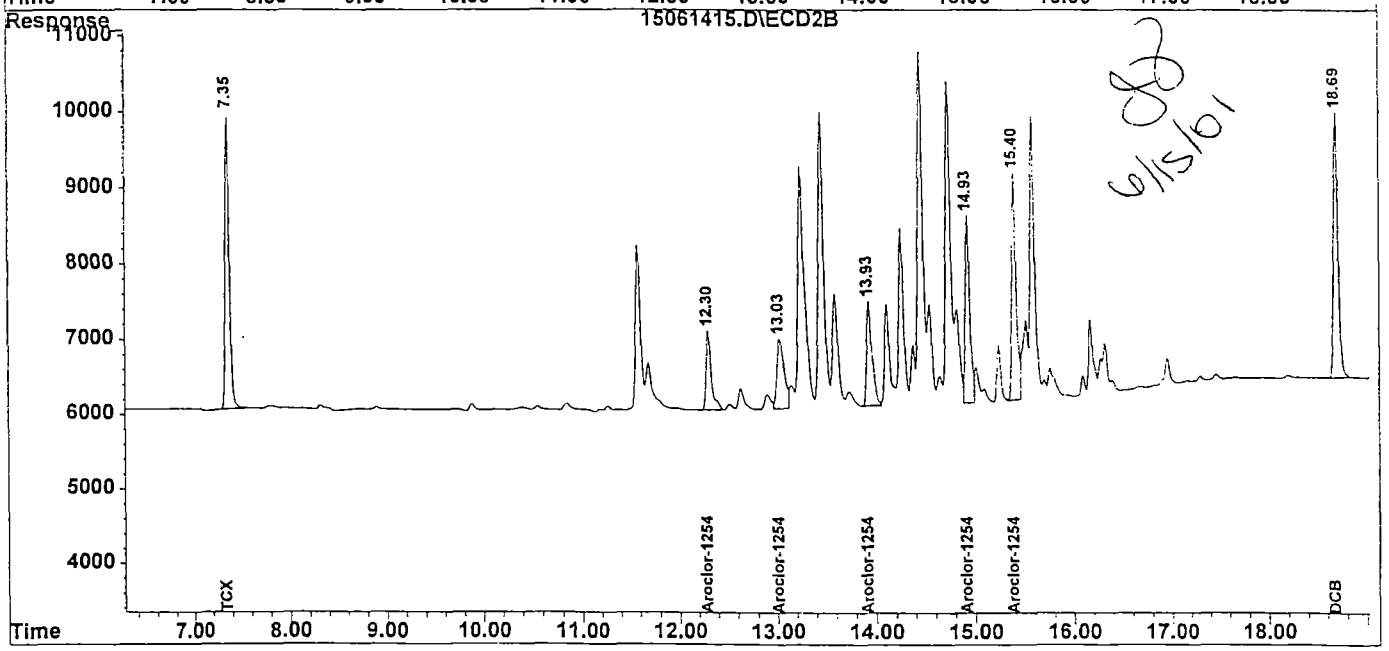
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061415.D\ECD1A.CH Vial: 15
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061415.D\ECD2B.CH
Acq On : 14 Jun 2001 23:21 Operator: DDC
Sample : AR1254L15C Inst : HP_15
Misc : 5-6-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 8:30 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/15/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061416.D\ECD1A.CH Vial: 16
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061416.D\ECD2B.CH
Acq On : 14 Jun 2001 23:44 Operator: DDC
Sample : AR1254L25C Inst : HP_15
Misc : 5-5-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 8:30 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	7.59	7.36	271921	234796	10.3	10.2	
22)	S DCB	18.29	18.70	219219	195149	8.390	8.596	
	Target Compounds:							
12)	L6 Aroclor-1254	12.63	12.31	248878	76809	204.6	267.7	#
13)	L6 Aroclor-1254 {2}	13.32	13.03	158177	92568	205.6	283.6	#
	L6 Aroclor-1254 {3}	13.79	13.94	211554	104179	237.5	266.4	
	L6 Aroclor-1254 {4}	14.32	14.93	192849	146259	231.0	229.8	
16)	L6 Aroclor-1254 {5}	15.00	15.40	151199	174212	277.9	308.3	
	Sum Aroclor-1254			962657	594028	1156.6	1355.8	
Average Aroclor-1254						231.318	271.167	

ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E3065
Signature Arnelda M. Williams
Date 06/19/01

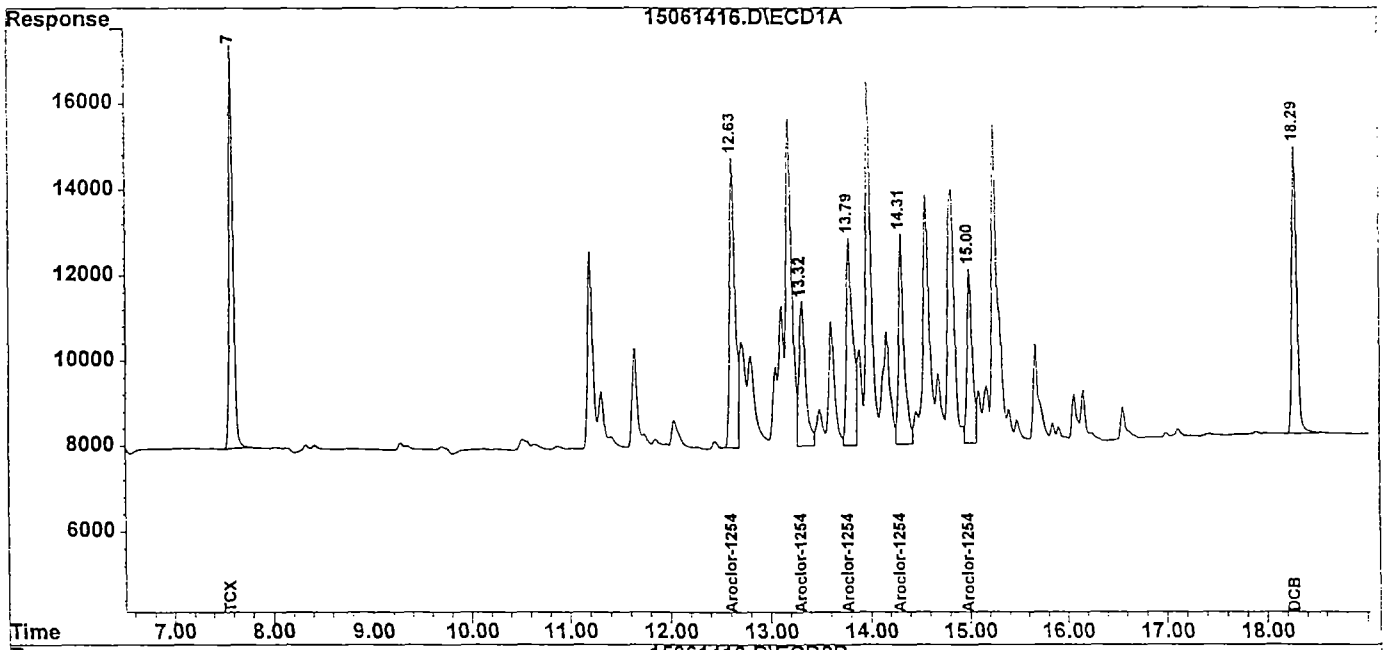
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

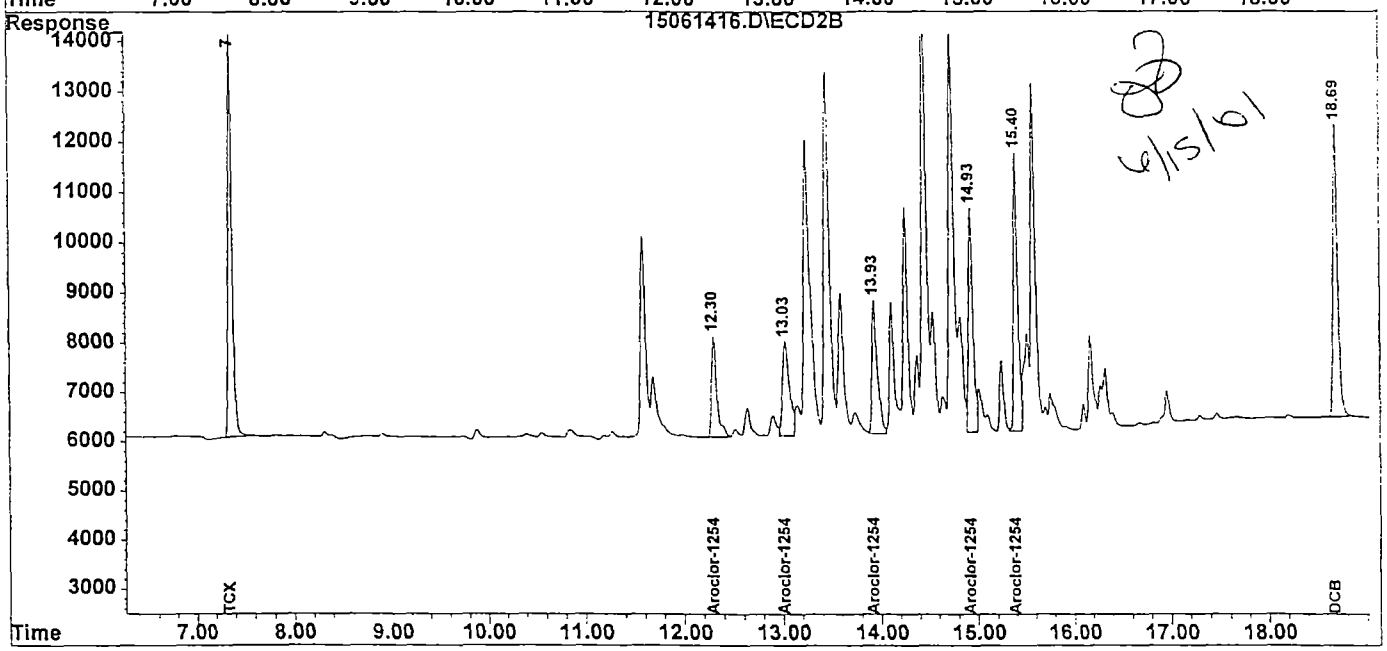
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061416.D\ECD1A.CH Vial: 16
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061416.D\ECD2B.CH
Acq On : 14 Jun 2001 23:44 Operator: DDC
Sample : AR1254L25C Inst : HP_15
Misc : 5-5-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 8:30 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/15/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061417.D\ECD1A.CH Vial: 17
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061417.D\ECD2B.CH
Acq On : 15 Jun 2001 00:07 Operator: DDC
Sample : AR1254L35C Inst : HP_15
Misc : 5-4-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 8:30 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	7.59	7.35	542897	491926	20.8	21.6	
22)	S DCB	18.29	18.70	508248	461624	20.9	21.6	
	Target Compounds:							
12)	L6 Aroclor-1254	12.63	12.30	478868	143996	384.5	454.5	
13)	L6 Aroclor-1254 {2}	13.32	13.02	308033	196265	394.7	530.4	#
	L6 Aroclor-1254 {3}	13.79	13.94	427588	216792	453.2	500.5	
	L6 Aroclor-1254 {4}	14.31	14.93	385577	306616	445.7	454.8	
16)	L6 Aroclor-1254 {5}	15.00	15.40	318717	373932	529.7	574.6	
	Sum Aroclor-1254			1918784	1237600	2207.7	2514.9	
	Average Aroclor-1254					441.532	502.976	

ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E3065
Signature Brenda M. Williams
Date 06/19/01

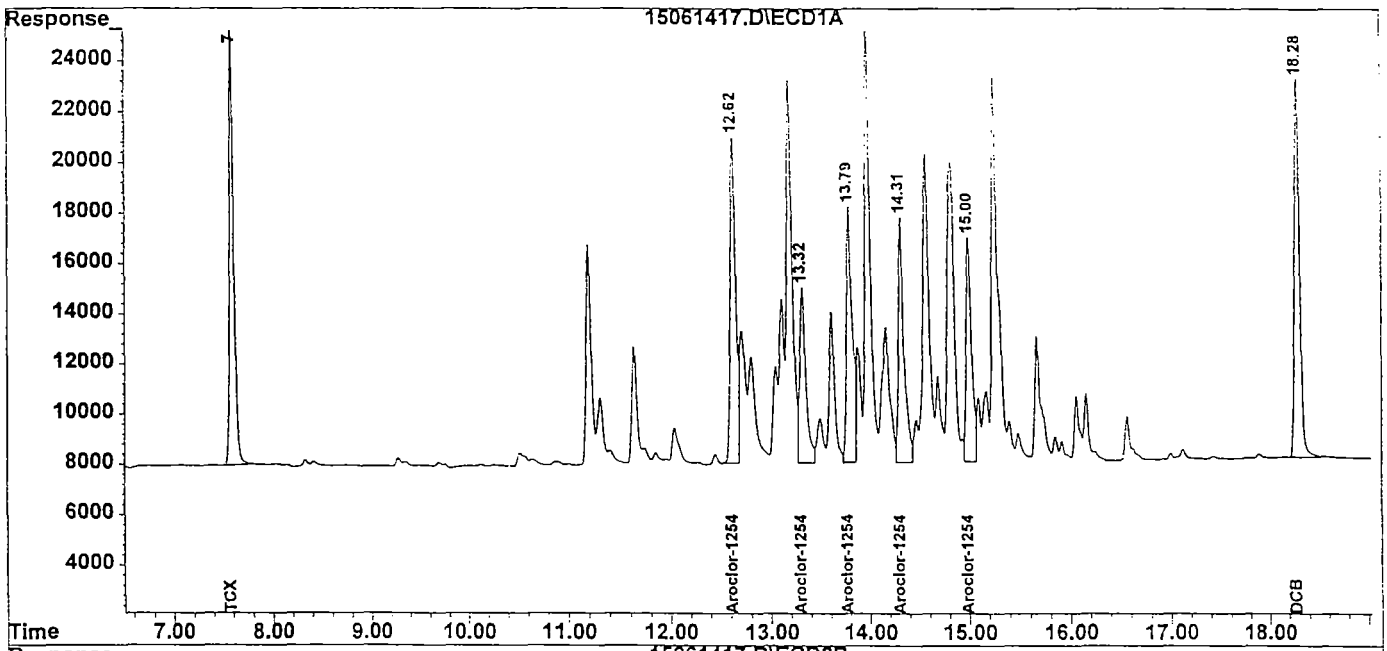
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

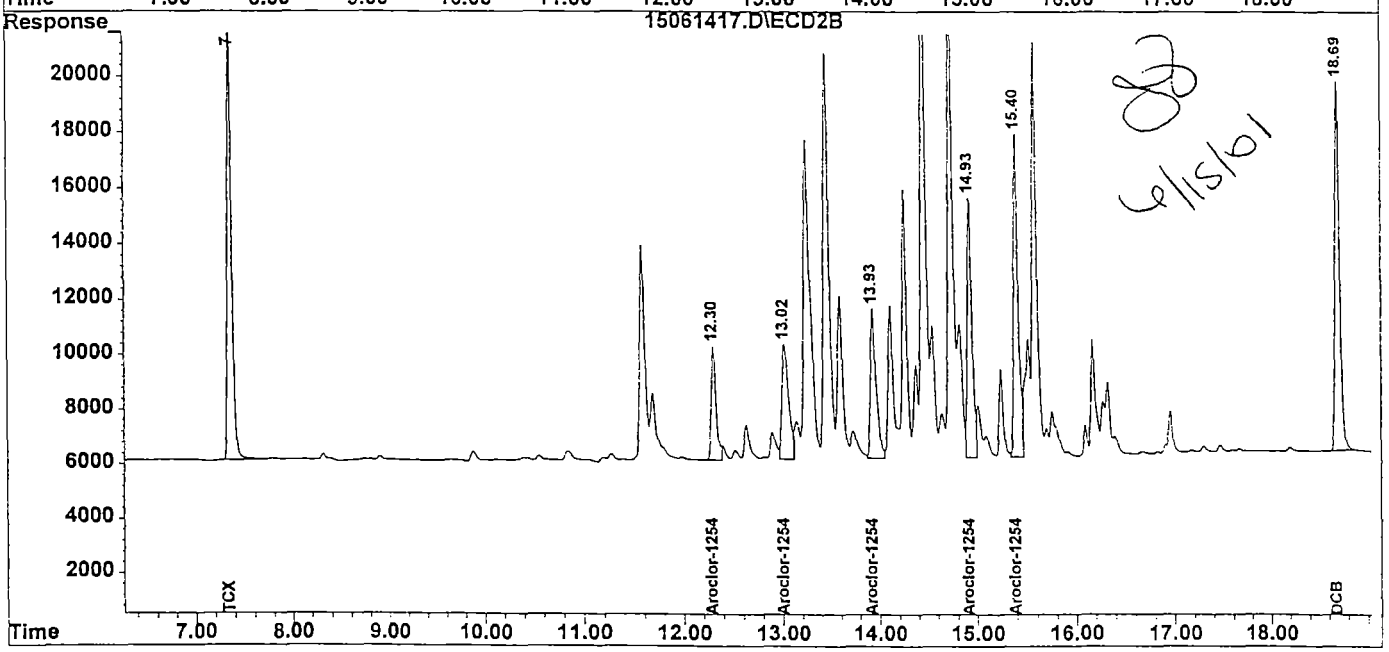
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061417.D\ECD1A.CH Vial: 17
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061417.D\ECD2B.CH
Acq On : 15 Jun 2001 00:07 Operator: DDC
Sample : AR1254L35C Inst : HP_15
Misc : 5-4-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 8:30 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/15/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061418.D\ECD1A.CH Vial: 18
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061418.D\ECD2B.CH
Acq On : 15 Jun 2001 00:30 Operator: DDC
Sample : AR1254L45C Inst : HP_15
Misc : 5-3-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 8:30 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	7.59	7.36	997664	940220	37.9	40.3	
22)	S DCB	18.28	18.69	994683	918949	41.6	43.1	
	Target Compounds:							
12)	L6 Aroclor-1254	12.63	12.31	837707	269967	676.6	793.7	
13)	L6 Aroclor-1254 {2}	13.32	13.02	541860	379310	689.4	912.7	#
	L6 Aroclor-1254 {3}	13.79	13.93	778847	405718	815.2	857.1	
	L6 Aroclor-1254 {4}	14.31	14.93	689543	576565	765.4	804.5	
16)	L6 Aroclor-1254 {5}	15.00	15.40	614982	733975	917.0	980.3	
	Sum Aroclor-1254			3462939	2365533	3863.5	4348.3	
	Average Aroclor-1254					772.693	869.654	

ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E3065
Signature Anetta M. Williams
Date 06/19/01

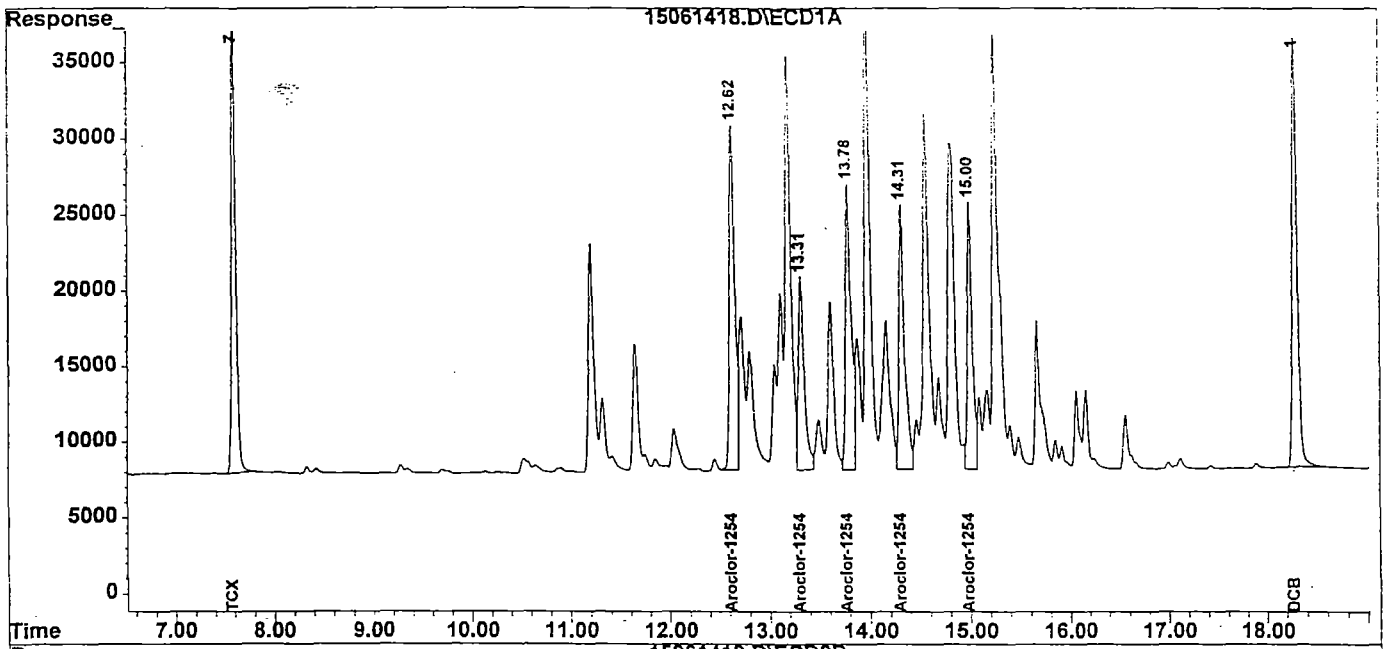
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

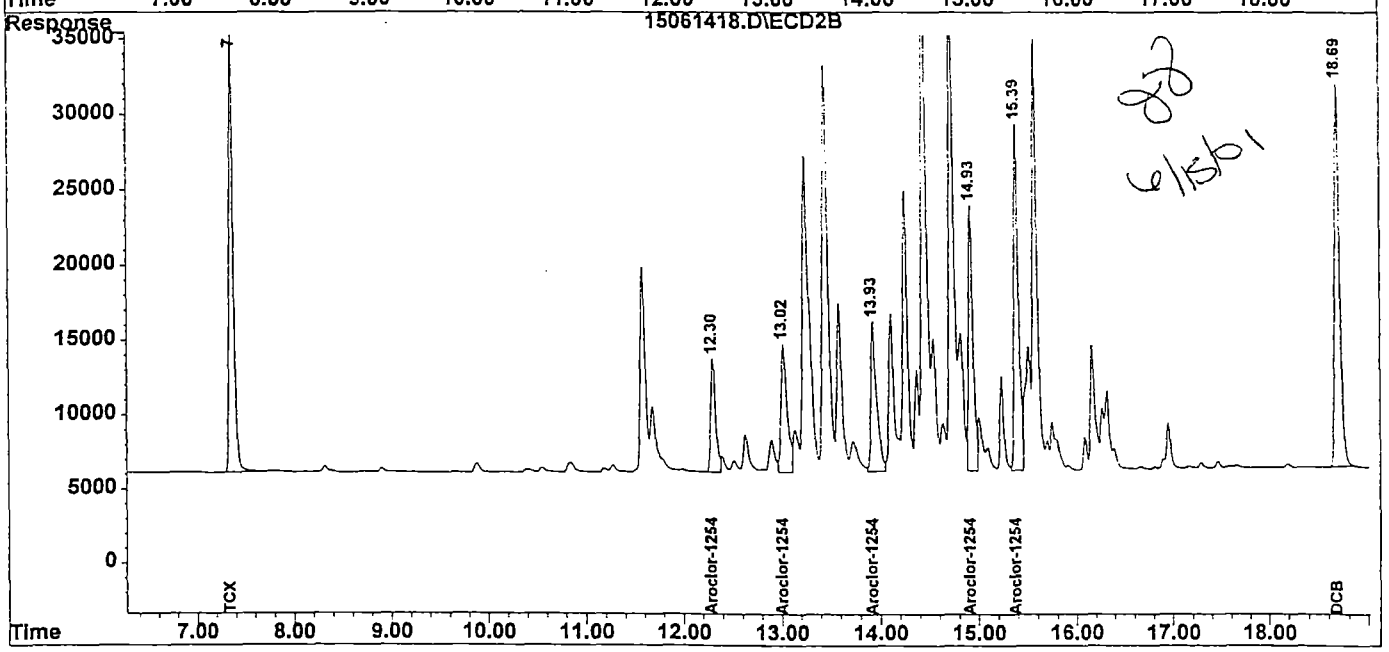
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061418.D\ECD1A.CH Vial: 18
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061418.D\ECD2B.CH
Acq On : 15 Jun 2001 00:30 Operator: DDC
Sample : AR1254L45C Inst : HP_15
Misc : 5-3-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 8:30 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/15/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061419.D\ECD1A.CH Vial: 19
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061419.D\ECD2B.CH
Acq On : 15 Jun 2001 00:53 Operator: DDC
Sample : AR1254L55C Inst : HP_15
Misc : 5-2-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 8:30 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.59	7.35	1990139	1960813	75.5 E	83.0 E
22)	S DCB	18.28	18.69	1818831	1709047	75.7 E	79.2 E
	Target Compounds:						
12)	L6 Aroclor-1254	12.62	12.30	1536736	532711	1278.9	1513.6 E
13)	L6 Aroclor-1254 {2}	13.31	13.02	990712	765080	1290.0	1733.2 E#
	L6 Aroclor-1254 {3}	13.78	13.93	1483926	787634	1491.5 E	1583.0 E
	L6 Aroclor-1254 {4}	14.31	14.93	1268014	1099920	1383.4 E	1495.6 E
16)	L6 Aroclor-1254 {5}	15.00	15.39	1212155	1480623	1668.1 E	1774.5 E
	Sum Aroclor-1254			6491544	4665969	7111.8	8099.9
	Average Aroclor-1254					1422.358	1619.977

ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29274 SDG E3065
Signature Emilie M. Williams
Date 06/19/01

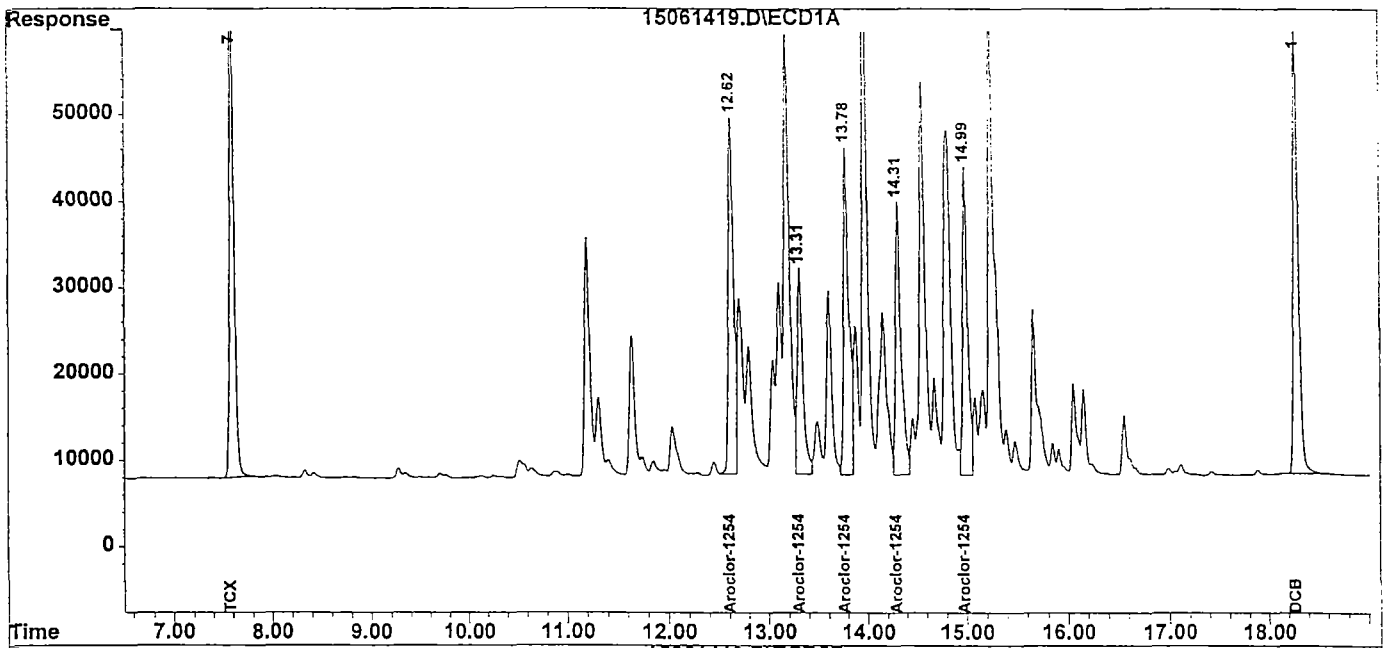
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

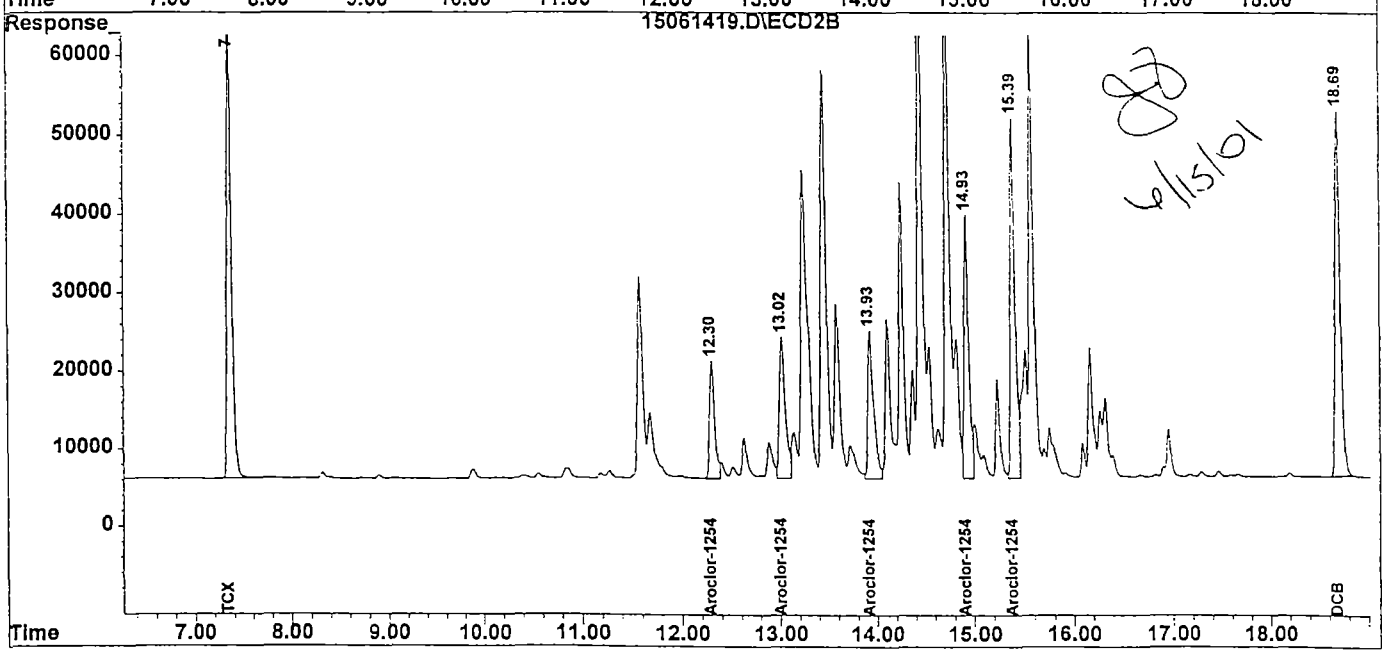
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061419.D\ECD1A.CH Vial: 19
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061419.D\ECD2B.CH
Acq On : 15 Jun 2001 00:53 Operator: DDC
Sample : AR1254L55C Inst : HP_15
Misc : 5-2-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 8:30 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/15/01

Response Factor Report HP_15

Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Calibration Files
L1 =15061420.D L2 =15061421.D L3 =15061422.D
L4 =15061423.D L5 =15061424.D

	Compound	L1	L2	L3	L4	L5	Avg	%RSD
1)	TCX	25.5	24.9	24.0	27.0	24.0	25.1 E3	4.88
2)	Aroclor-1016	738.4	706.5	645.2	660.7	550.4	660.3	10.85
3)	Aroclor-1016 {2}	990.9	914.5	820.4	818.4	664.4	841.7	14.55
4)	Aroclor-1016 {3}	1.2	1.1	1.1	1.2	1.0	1.1 E3	5.47
5)	Aroclor-1016 {4}	812.7	769.0	705.0	716.9	602.2	721.1	10.98
6)	Aroclor-1016 {5}	741.1	723.1	682.7	719.8	619.2	697.2	6.95
17)	Aroclor-1260	1.9	1.7	1.6	1.6	1.4	1.6 E3	11.67
18)	Aroclor-1260 {2}	2.5	2.3	2.1	2.2	1.9	2.2 E3	9.28
19)	Aroclor-1260 {3}	2.2	2.1	2.0	2.1	1.9	2.1 E3	5.48
20)	Aroclor-1260 {4}	1.2	1.2	1.2	1.2	1.1	1.2 E3	4.05
21)	Aroclor-1260 {5}	2.5	2.3	2.4	2.4	2.2	2.4 E3	3.80
22)	DCB	27.6	25.4	26.1	26.2	24.3	25.9 E3	4.78

Signal #2 Calibration Files
L1 =15061420.D L2 =15061421.D L3 =15061422.D
L4 =15061423.D L5 =15061424.D

	Compound	L1	L2	L3	L4	L5	Avg	%RSD
24)	TCX #2	21.9	22.1	22.0	26.0	24.0	23.2 E3	7.67
25)	Aroclor-1016 #2	576.0	554.1	512.6	537.6	461.9	528.4	8.30
26)	Aroclor-1016 {2} #2	1.4	1.3	1.2	1.2	1.0	1.2 E3	11.24
27)	Aroclor-1016 {3} #2	2.0	2.0	1.9	2.2	2.0	2.0 E3	4.76
28)	Aroclor-1016 {4} #2	620.6	618.2	615.7	687.9	618.4	632.1	4.94
29)	Aroclor-1016 {5} #2	699.2	705.5	675.7	741.6	659.6	696.3	4.49
40)	Aroclor-1260 #2	894.7	856.9	826.7	902.1	819.8	860.0	4.39
41)	Aroclor-1260 {2} #2	1.6	1.5	1.4	1.5	1.3	1.4 E3	8.46
42)	Aroclor-1260 {3} #2	1.9	1.7	1.6	1.7	1.6	1.7 E3	6.74
43)	Aroclor-1260 {4} #2	1.0	1.0	0.9	1.0	0.9	1.0 E3	4.14
44)	Aroclor-1260 {5} #2	2.4	2.3	2.3	2.5	2.4	2.4 E3	4.05
45)	DCB #2	24.5	22.9	23.9	24.3	22.9	23.7 E3	3.24

(#) = Out of Range

XPCBF14.M Fri Jun 15 08:33:29 2001

ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E3065
Signature Anella M. Williams
Date 06/19/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061420.D\ECD1A.CH Vial: 20
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061420.D\ECD2B.CH
Acq On : 15 Jun 2001 1:17 Operator: DDC
Sample : AR1660L15C Inst : HP_15
Misc : 5-31-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 8:32 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds:							
1)	S TCX	7.59	7.35	127373	109686	4.824	4.589	
22)	S DCB	18.29	18.70	138223	122544	5.694	5.575	
	Target Compounds:							
2)	L1 Aroclor-1016	8.42	8.89	73845	57601	131.8	137.4	
3)	L1 Aroclor-1016 {2}	9.28	9.88	99092	141026	153.0	137.0	
	L1 Aroclor-1016 {3}	10.58	10.86	118673	198778	170.8	141.4	
	L1 Aroclor-1016 {4}	11.20	11.18	81269	62058	149.0	177.2	
6)	L1 Aroclor-1016 {5}	11.64	12.30	74106	69923	143.8	169.6	
	Sum Aroclor-1016			446985	529387	748.4	762.6	
	Average Aroclor-1016					149.677	152.528	
17)	L7 Aroclor-1260	14.32	14.45	187415	89473	119.0	155.8	#
18)	L7 Aroclor-1260 {2}	14.81	14.73	245916	159179	156.1	121.3	
19)	L7 Aroclor-1260 {3}	15.26	14.93	223555	186187	154.3	154.4	
20)	L7 Aroclor-1260 {4}	15.72	16.10	120469	102336	112.3	148.2	#
21)	L7 Aroclor-1260 {5}	16.17	16.33	246032	240805	151.8	176.1	
	Sum Aroclor-1260			1023387	777980	693.6	755.9	
	Average Aroclor-1260					138.722	151.170	

ORIGINAL DOCUMENTS ARE INCLUDED IN
Vol 29294 SDG E3065
Signature Rachel M. Williams
Date 06/19/01

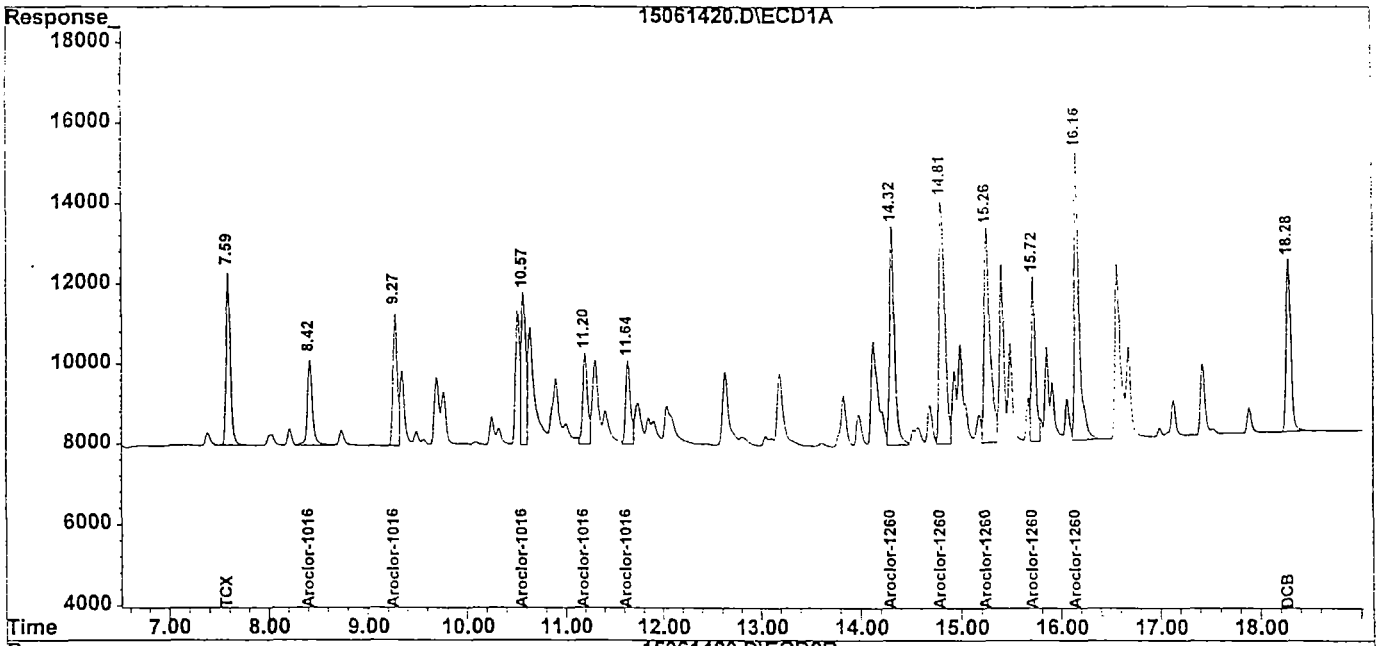
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

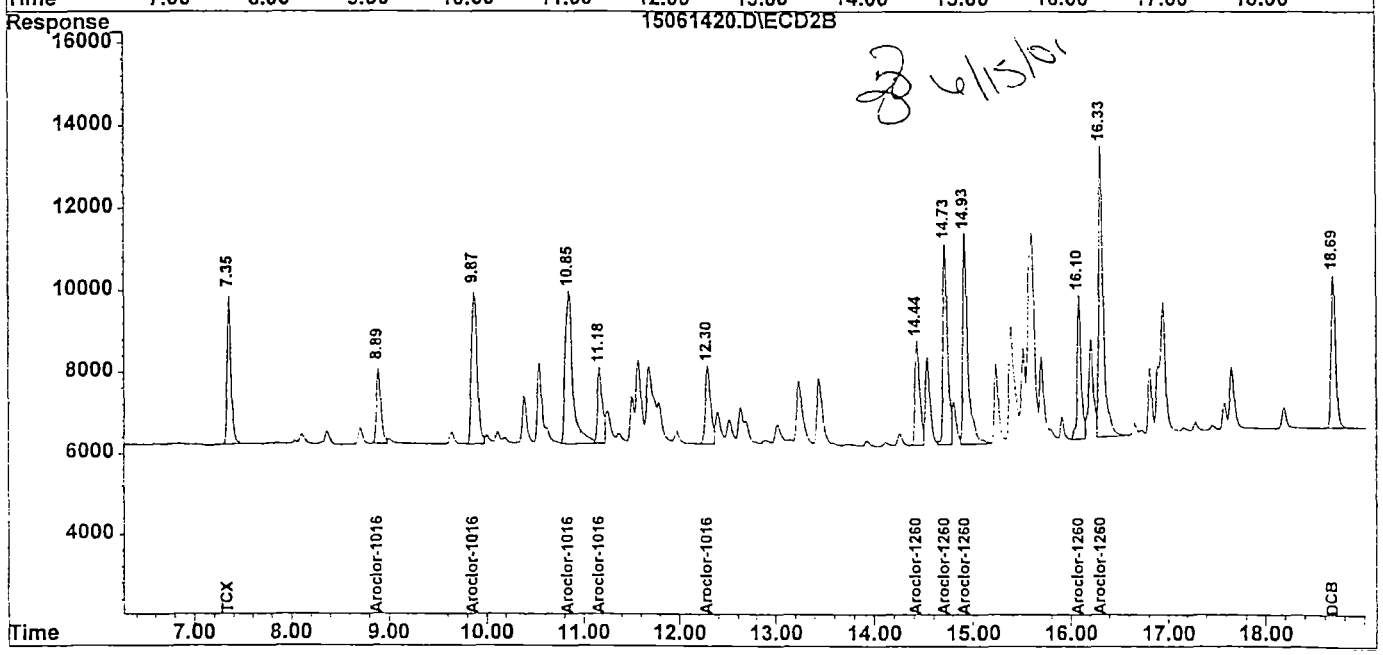
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061420.D\ECD1A.CH Vial: 20
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061420.D\ECD2B.CH
Acq On : 15 Jun 2001 1:17 Operator: DDC
Sample : AR1660L15C Inst : HP_15
Misc : 5-31-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 8:32 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061421.D\ECD1A.CH Vial: 21
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061421.D\ECD2B.CH
Acq On : 15 Jun 2001 1:40 Operator: DDC
Sample : AR1660L25C Inst : HP_15
Misc : 5-30-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 8:32 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.59	7.35	249261	220511	9.614	9.341
22)	S DCB	18.28	18.70	253676	228729	10.3	10.3
	Target Compounds:						
2)	L1 Aroclor-1016	8.42	8.89	141303	110826	238.6	242.0
3)	L1 Aroclor-1016 {2}	9.27	9.88	182904	263383	262.8	241.0
	L1 Aroclor-1016 {3}	10.58	10.86	227303	394197	287.3	255.2
	L1 Aroclor-1016 {4}	11.20	11.18	153791	123633	258.7	301.2
6)	L1 Aroclor-1016 {5}	11.64	12.30	144610	141099	257.0	296.2
	Sum Aroclor-1016			849911	1033137	1304.4	1335.7
	Average Aroclor-1016					260.879	267.136
17)	L7 Aroclor-1260	14.32	14.44	344530	171375	210.4	262.6
18)	L7 Aroclor-1260 {2}	14.81	14.73	453841	295837	255.9	213.4
19)	L7 Aroclor-1260 {3}	15.26	14.93	419567	342938	256.8	250.0
20)	L7 Aroclor-1260 {4}	15.72	16.10	241770	192183	216.3	250.0
21)	L7 Aroclor-1260 {5}	16.16	16.33	462396	460000	257.4	285.0
	Sum Aroclor-1260			1922103	1462332	1196.8	1261.0
	Average Aroclor-1260					239.359	252.197

ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E3065
Signature Brenda M. Williams
Date 06/19/01

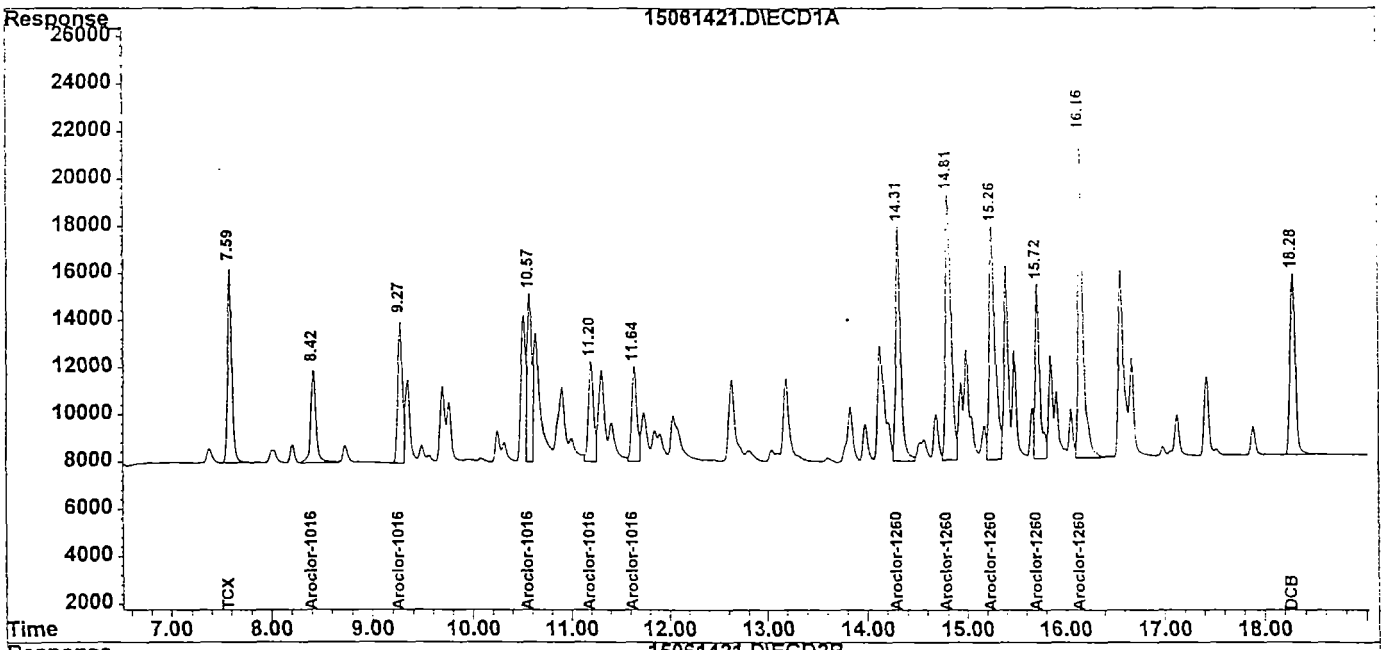
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std.

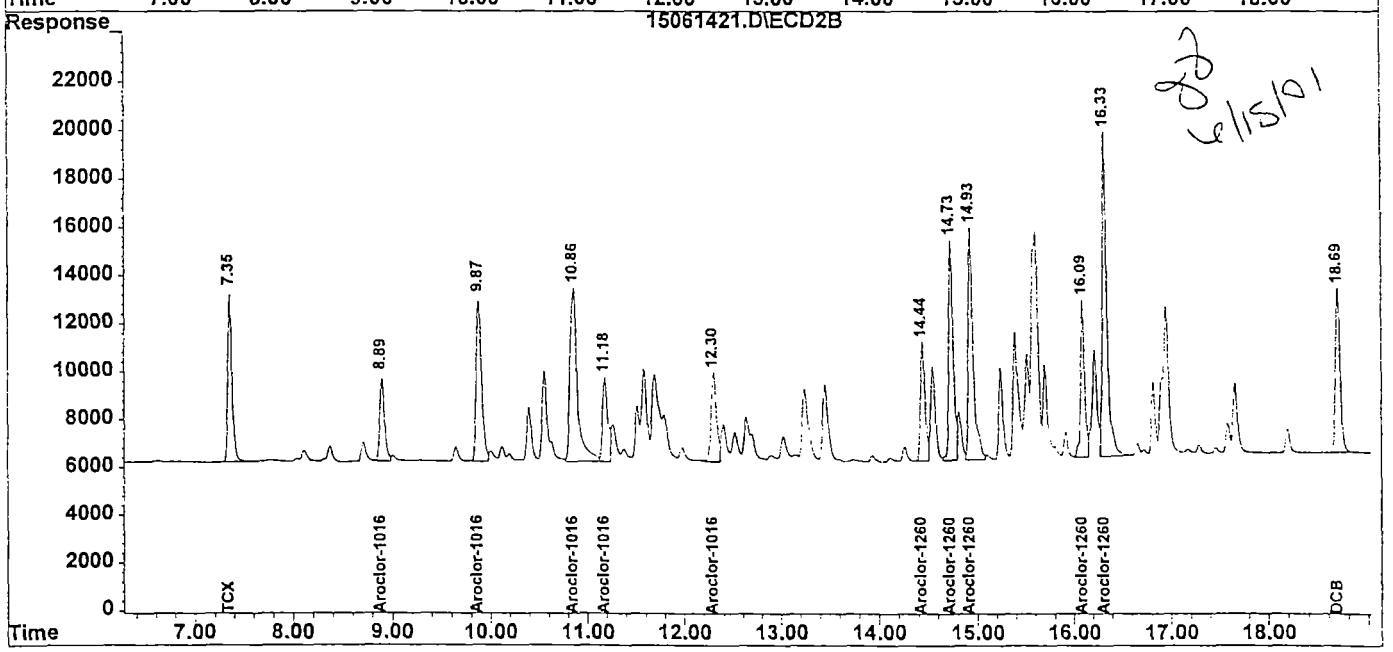
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061421.D\ECD1A.CH Vial: 21
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061421.D\ECD2B.CH
Acq On : 15 Jun 2001 1:40 Operator: DDC
Sample : AR1660L25C Inst : HP_15
Misc : 5-30-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 8:32 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/15/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061422.D\ECD1A.CH Vial: 22
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061422.D\ECD2B.CH
Acq On : 15 Jun 2001 2:03 Operator: DDC
Sample : AR1660L35V Inst : HP_15
Misc : 5-29-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 8:32 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.59	7.35	479903	439200	18.8	18.8
22)	S DCB	18.28	18.69	522253	477829	20.7	20.8
	Target Compounds:						
2)	L1 Aroclor-1016	8.42	8.89	258095	205035	420.9	414.1
3)	L1 Aroclor-1016 {2}	9.28	9.88	328150	482066	444.1	422.1
	L1 Aroclor-1016 {3}	10.58	10.86	441174	767914	500.0	458.4
	L1 Aroclor-1016 {4}	11.20	11.18	281982	246273	443.5	524.4
6)	L1 Aroclor-1016 {5}	11.64	12.30	273076	270282	451.5	502.0
	Sum Aroclor-1016			1582477	1971570	2260.0	2321.0
	Average Aroclor-1016					452.001	464.201
17)	L7 Aroclor-1260	14.31	14.44	634983	330676	381.8	461.2
18)	L7 Aroclor-1260 {2}	14.81	14.73	853685	555868	444.6	389.2
19)	L7 Aroclor-1260 {3}	15.26	14.93	817865	652146	459.0	436.1
20)	L7 Aroclor-1260 {4}	15.72	16.10	484702	377240	425.3	451.8
21)	L7 Aroclor-1260 {5}	16.16	16.33	963166	901139	488.8	490.7
	Sum Aroclor-1260			3754400	2817068	2199.6	2228.9
	Average Aroclor-1260					439.914	445.789

ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E3065
Signature Bella M Williams
Date 06/19/01

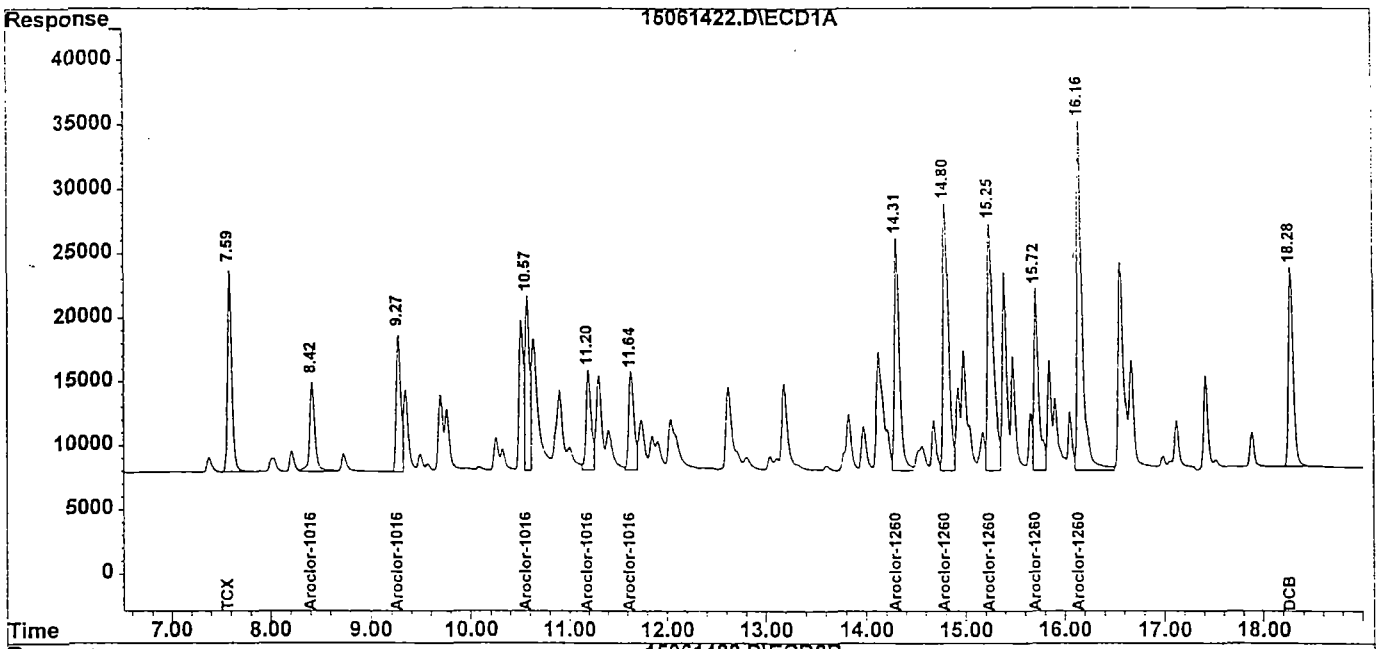
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

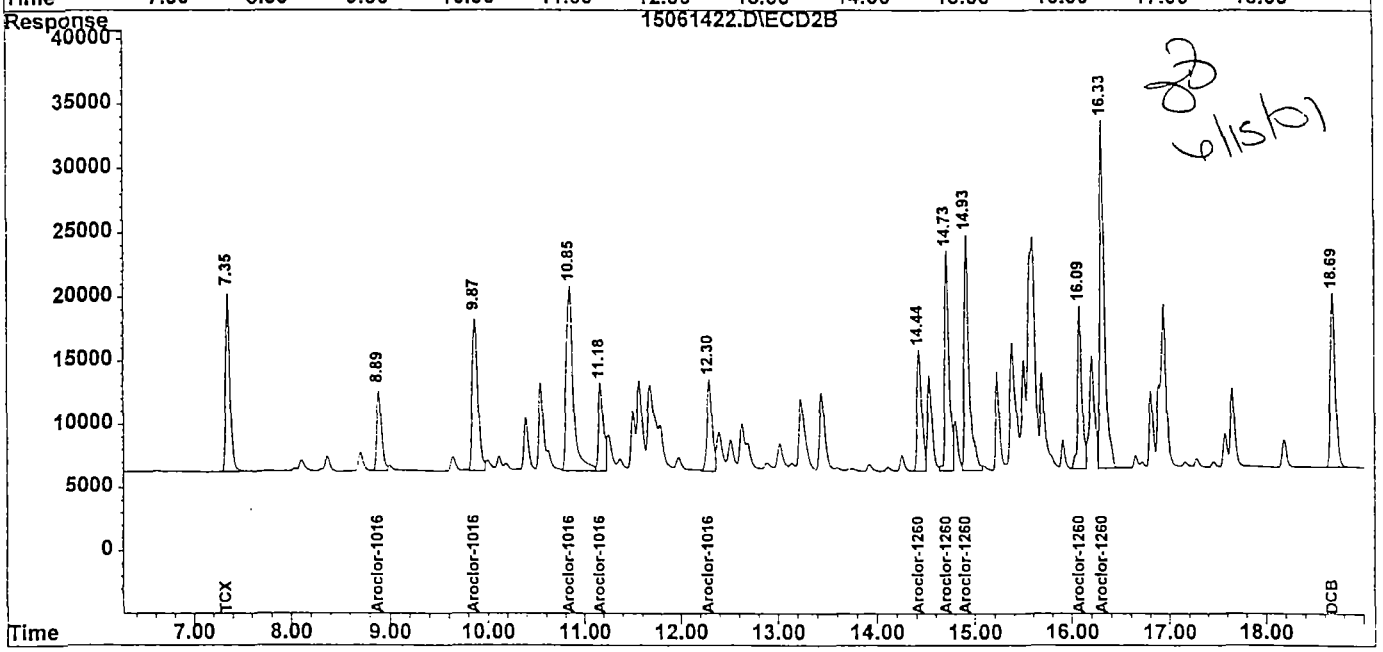
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061422.D\ECD1A.CH Vial: 22
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061422.D\ECD2B.CH
Acq On : 15 Jun 2001 2:03 Operator: DDC
Sample : AR1660L35V Inst : HP_15
Misc : 5-29-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 8:32 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/15/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061423.D\ECD1A.CH Vial: 23
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061423.D\ECD2B.CH
Acq On : 15 Jun 2001 2:26 Operator: DDC
Sample : AR1660L45C Inst : HP_15
Misc : 5-28-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 8:33 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.59	7.35	1078758	1038335	43.4	45.6
22)	S DCB	18.29	18.69	1047391	971711	41.3	42.0
	Target Compounds:						
2)	L1 Aroclor-1016	8.42	8.89	528581	430109	866.1	845.0
3)	L1 Aroclor-1016 {2}	9.27	9.88	654691	992301	869.0	867.9
	L1 Aroclor-1016 {3}	10.58	10.86	946787	1730554	1007.8	1002.5
	L1 Aroclor-1016 {4}	11.20	11.18	573497	550324	889.0	1078.2
6)	L1 Aroclor-1016 {5}	11.64	12.30	575802	593265	938.1	1032.1
	Sum Aroclor-1016			3279358	4296553	4570.0	4825.8
	Average Aroclor-1016					913.996	965.154
17)	L7 Aroclor-1260	14.31	14.44	1270141	721645	795.4	969.0
18)	L7 Aroclor-1260 {2}	14.80	14.73	1736593	1166741	884.1	839.5
19)	L7 Aroclor-1260 {3}	15.26	14.93	1702761	1386152	926.2	906.6
20)	L7 Aroclor-1260 {4}	15.72	16.10	979876	810705	862.6	943.3
21)	L7 Aroclor-1260 {5}	16.16	16.33	1941712	1999510	940.6	1019.6
	Sum Aroclor-1260			7631084	6084752	4408.8	4677.9
	Average Aroclor-1260					881.756	935.580

COPY

ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 GDG E3065
Signature Sheila M. Williams
Date 06/19/01

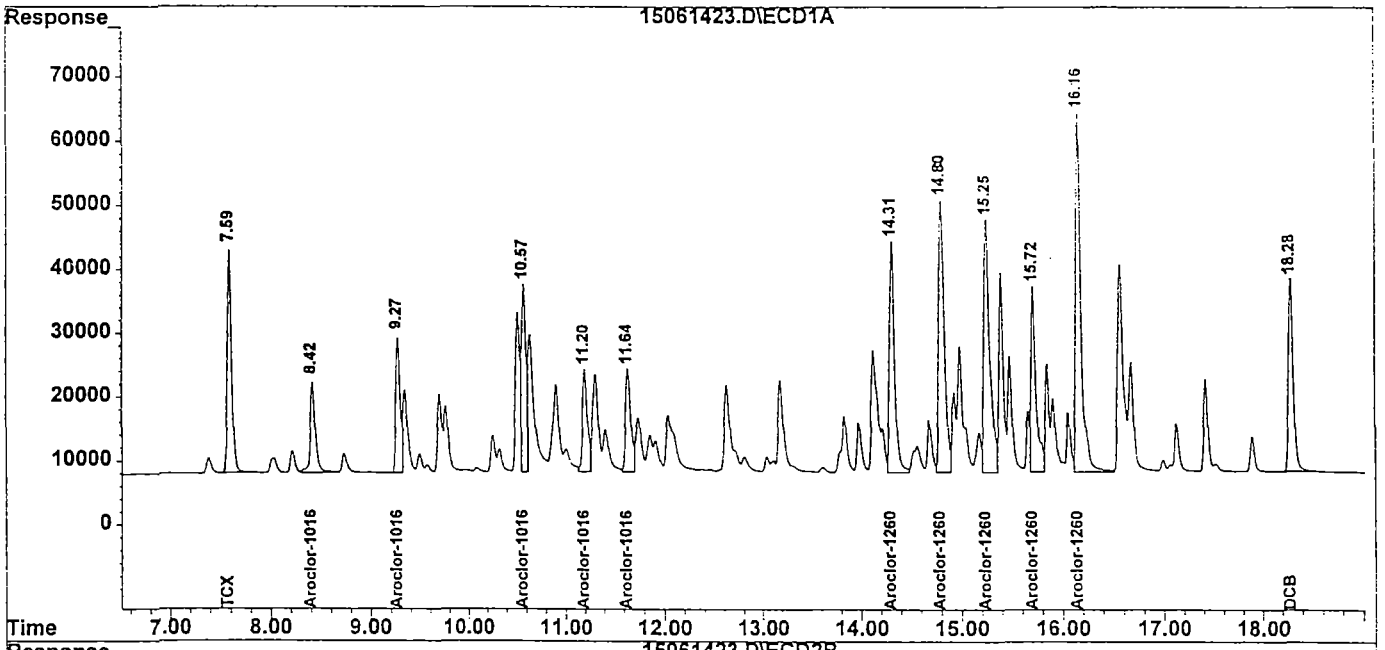
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

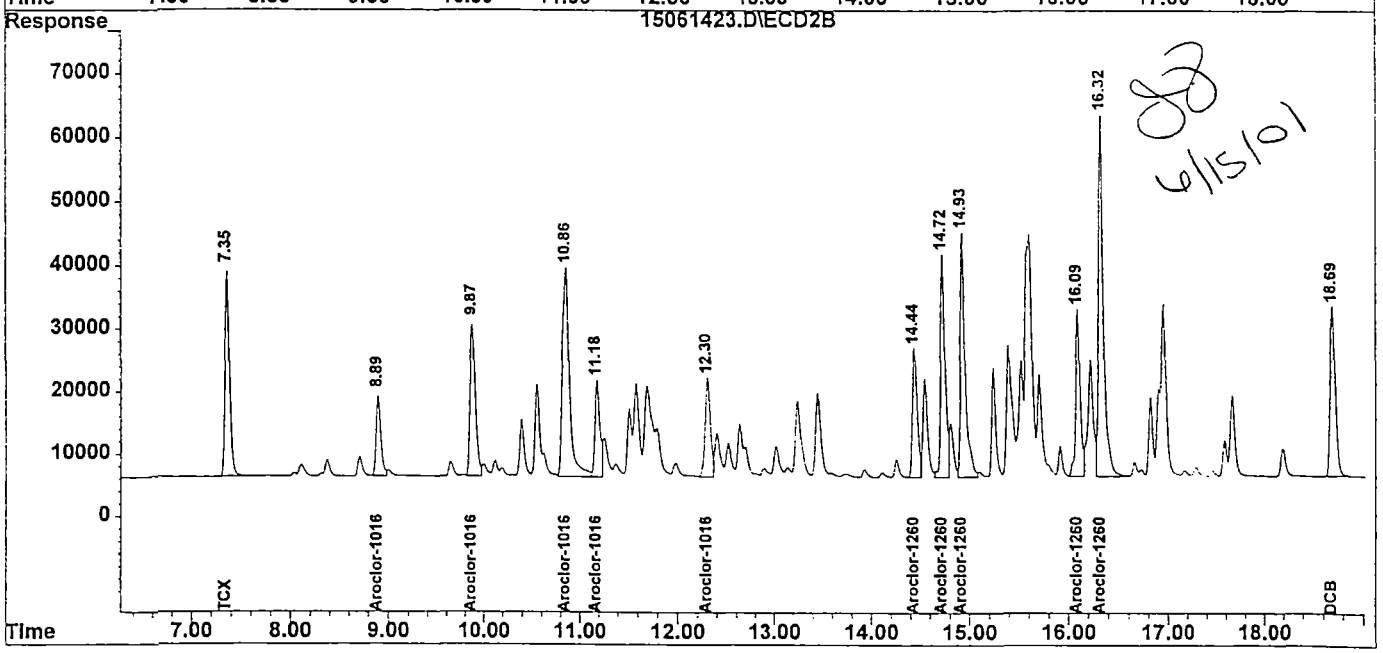
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061423.D\ECD1A.CH Vial: 23
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061423.D\ECD2B.CH
Acq On : 15 Jun 2001 2:26 Operator: DDC
Sample : AR1660L45C Inst : HP_15
Misc : 5-28-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 8:33 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/15/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061424.D\ECD1A.CH Vial: 24
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061424.D\ECD2B.CH
Acq On : 15 Jun 2001 2:49 Operator: DDC
Sample : AR1660L55C Inst : HP_15
Misc : 5-27-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 8:33 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.59	7.35	1923319	1916734	76.2	82.3
22)	S DCB	18.28	18.69	1941000	1832457	75.8 E	78.4 E
	Target Compounds:						
2)	L1 Aroclor-1016	8.42	8.89	880674	738982	1373.4 E	1384.8
3)	L1 Aroclor-1016 {2}	9.27	9.88	1063089	1657098	1319.7 E	1373.6 E
[illegible]	L1 Aroclor-1016 {3}	10.58	10.86	1661352	3124497	1587.7 E	1656.5 E
	L1 Aroclor-1016 {4}	11.20	11.18	963599	989436	1399.2 E	1706.9 E
6)	L1 Aroclor-1016 {5}	11.64	12.30	990762	1055295	1498.4 E	1640.3 E
	Sum Aroclor-1016			5559476	7565309	7178.3	7762.1
	Average Aroclor-1016					1435.670	1552.414
17)	L7 Aroclor-1260	14.31	14.44	2177698	1311737	1342.9 E	1616.3 E
18)	L7 Aroclor-1260 {2}	14.80	14.73	3044459	2019367	1451.2 E	1412.8 E
19)	L7 Aroclor-1260 {3}	15.25	14.93	3078579	2492603	1553.1 E	1525.5 E
20)	L7 Aroclor-1260 {4}	15.72	16.09	1769731	1497966	1527.1 E	1616.3 E
21)	L7 Aroclor-1260 {5}	16.16	16.33	3588283	3780241	1600.7 E	1728.4 E
	Sum Aroclor-1260			13658750	11101914	7475.0	7899.3
	Average Aroclor-1260					1494.991	1579.862

ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG F3065
Signature [illegible]
Date 06/19/01

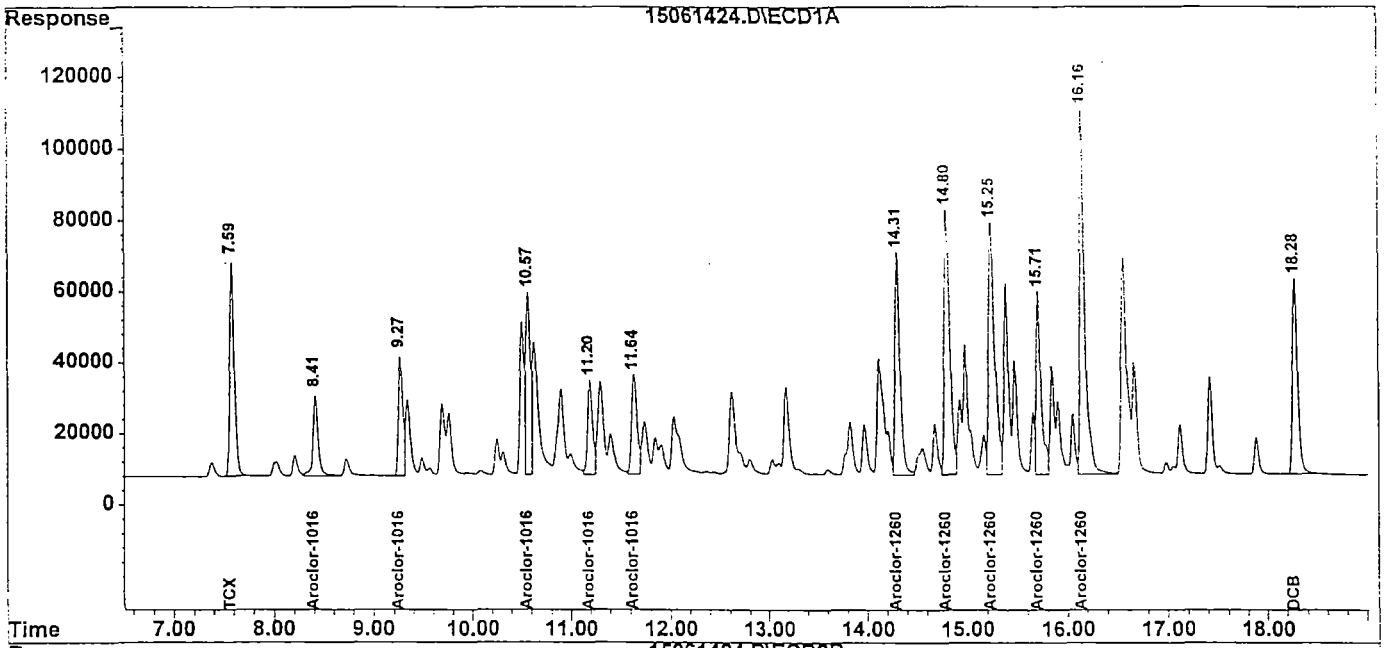
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

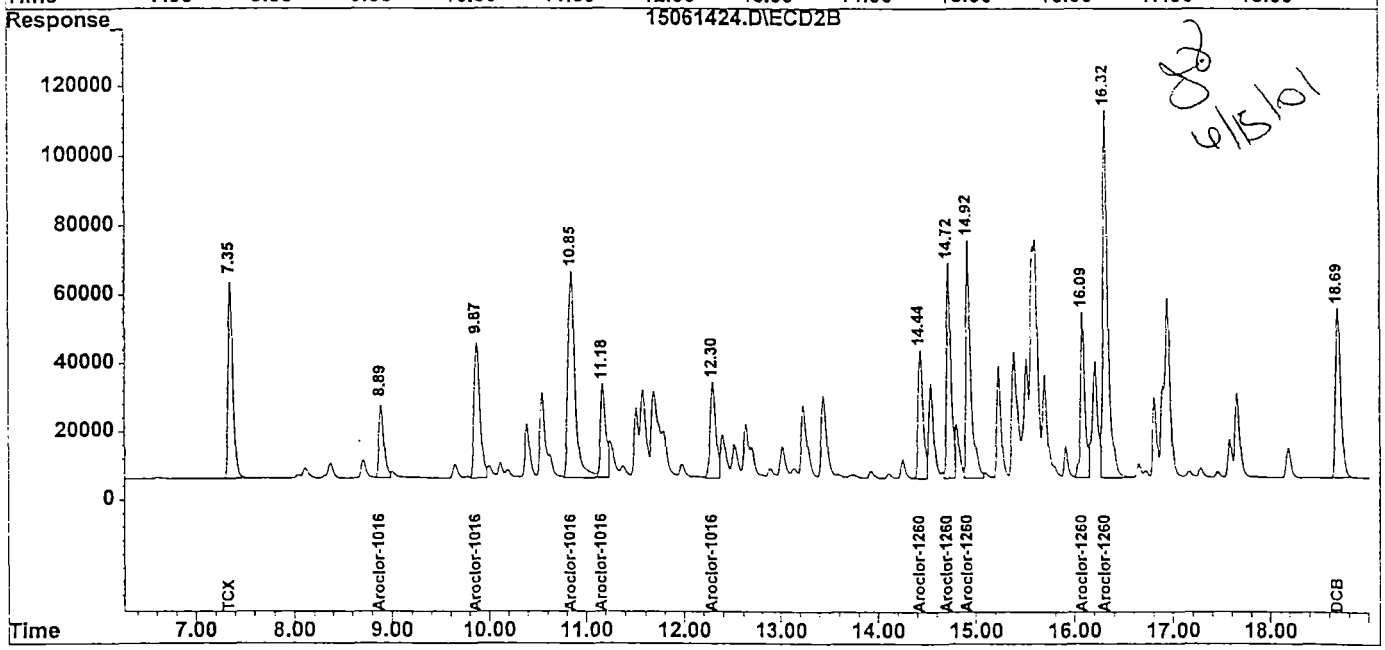
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061424.D\ECD1A.CH Vial: 24
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061424.D\ECD2B.CH
Acq On : 15 Jun 2001 2:49 Operator: DDC
Sample : AR1660L55C Inst : HP_15
Misc : 5-27-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 8:33 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/15/01

Continuing Calibration Report HP_15

Method : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 21 07:04:46 2001
Response via : Initial Calibration

Continuing Calibration File: 15062039.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	25.081	27.256	E3	-8.7	114
2	L1	Aroclor-1016	660.269	692.198		-4.8	107
3	L1	Aroclor-1016 {2}	841.722	819.597		2.6	100
4	L1	Aroclor-1016 {3}	1.130	1.145	E3	-1.3	104
5	L1	Aroclor-1016 {4}	721.143	752.579		-4.4	107
6	L1	Aroclor-1016 {5}	697.156	746.203		-7.0	109
17	L7	Aroclor-1260	1.627	1.719	E3	-5.7	108
18	L7	Aroclor-1260 {2}	2.187	2.311	E3	-5.6	108
19	L7	Aroclor-1260 {3}	2.086	2.135	E3	-2.3	104
20	L7	Aroclor-1260 {4}	1.191	1.178	E3	1.1	97
21	L7	Aroclor-1260 {5}	2.370	2.292	E3	3.3	95
22	S	DCB	25.914	24.043	E3	7.2	92

Signal #2
Continuing Calibration File: 15062039.D

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	23.173	25.559	E3	-10.3	116
2	L1	Aroclor-1016	528.447	604.642		-14.4	118
3	L1	Aroclor-1016 {2}	1.242	1.389	E3	-11.8	115
4	L1	Aroclor-1016 {3}	1.999	2.141	E3	-7.1	112
5	L1	Aroclor-1016 {4}	632.145	602.285		4.7	98
6	L1	Aroclor-1016 {5}	696.313	716.780		-2.9	106
17	L7	Aroclor-1260	860.037	883.417		-2.7	107
18	L7	Aroclor-1260 {2}	1.436	1.490	E3	-3.8	107
19	L7	Aroclor-1260 {3}	1.699	1.796	E3	-5.6	110
20	L7	Aroclor-1260 {4}	0.975	0.986	E3	-1.1	105
21	L7	Aroclor-1260 {5}	2.365	2.446	E3	-3.4	109
22	S	DCB	23.694	23.336	E3	1.5	98

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

15062039.D XPCBF14.M Thu Jun 21 07:04:52 2001

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_20_01\15062039.D\ECD1A.CH Vial: 35
Signal #2 : F:\HPCHEM\HP\15\DATA\06_20_01\15062039.D\ECD2B.CH
Acq On : 20 Jun 2001 23:55 Operator: DDC
Sample : AR1660L35P Inst : HP_15
Misc : 5-29-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 21 7:04 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.59	7.35	545129	511177	21.7	22.1
22)	S DCB	18.28	18.68	480852	466725	18.6	19.7
	Target Compounds:						
2)	L1 Aroclor-1016	8.42	8.89	276879	241857	419.3	457.7
3)	L1 Aroclor-1016 {2}	9.27	9.87	327839	555430	389.5	447.3
4)	L1 Aroclor-1016 {3}	10.57	10.85	457897	856320	405.4	428.4
[illegible]	L1 Aroclor-1016 {4}	11.20	11.18	301032	240914	417.4	381.1
[illegible]	L1 Aroclor-1016 {5}	11.65	12.30	298481	286712	428.1	411.8
	Sum Aroclor-1016			1662129	2181233	2059.8	2126.3
	Average Aroclor-1016					411.954	425.250
17)	L7 Aroclor-1260	14.32	14.44	687643	353367	422.7	410.9
18)	L7 Aroclor-1260 {2}	14.81	14.73	924207	596077	422.5	415.0
19)	L7 Aroclor-1260 {3}	15.26	14.93	853821	718206	409.3	422.6
20)	L7 Aroclor-1260 {4}	15.72	16.09	471143	394427	395.5	404.4
21)	L7 Aroclor-1260 {5}	16.16	16.32	916782	978213	386.8	413.7
	Sum Aroclor-1260			3853596	3040290	2036.9	2066.6
	Average Aroclor-1260					407.383	413.314

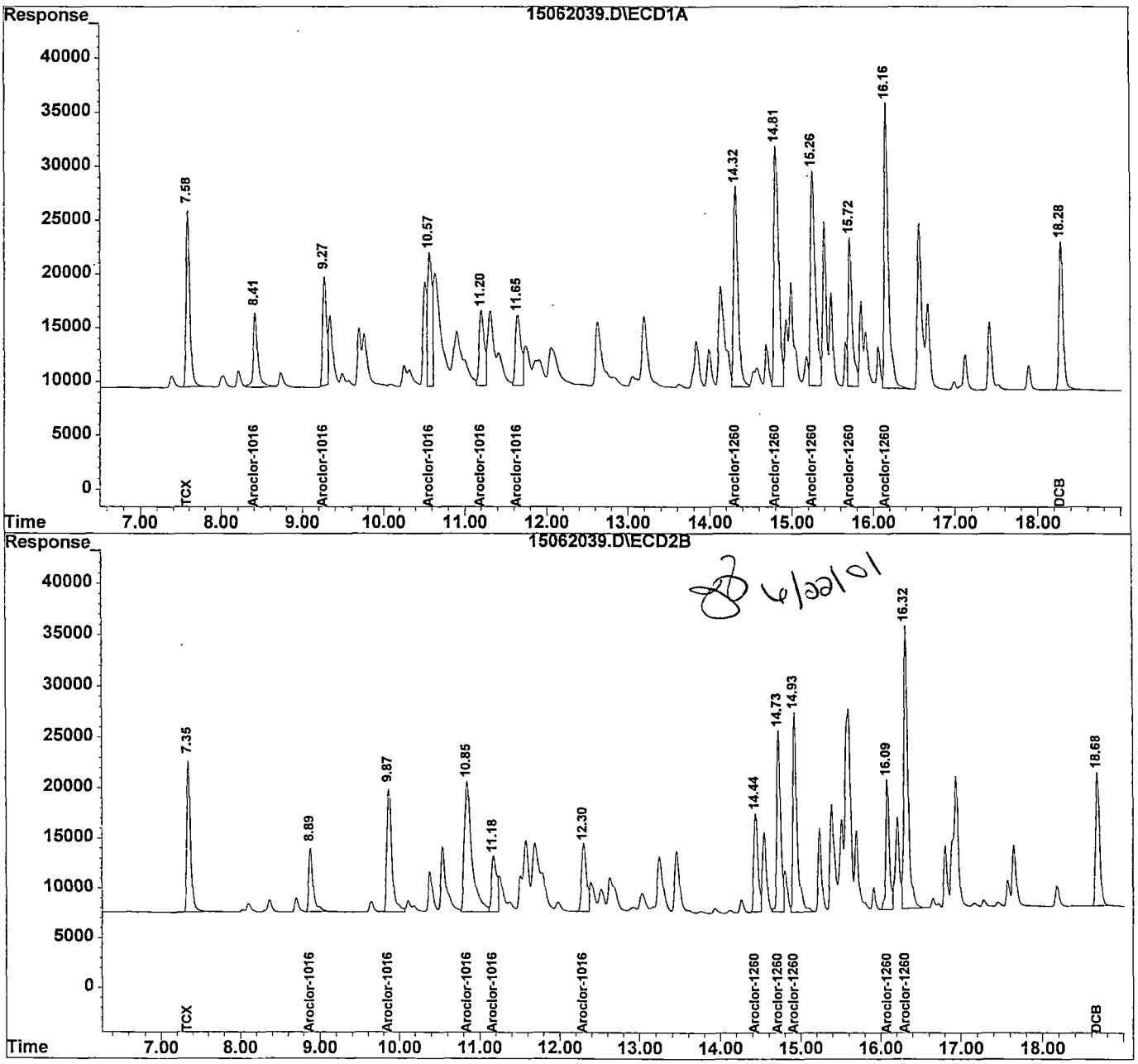
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_20_01\15062039.D\ECD1A.CH Vial: 35
Signal #2 : F:\HPCHEM\HP\15\DATA\06_20_01\15062039.D\ECD2B.CH
Acq On : 20 Jun 2001 23:55 Operator: DDC
Sample : AR1660L35P Inst : HP_15
Misc : 5-29-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 21 7:04 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B



Continuing Calibration Report HP_15

Method : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 21 09:40:46 2001
Response via : Initial Calibration

Continuing Calibration File: 15062063.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	25.081	28.784	E3	-14.8	120
2	L1	Aroclor-1016	660.269	745.345		-12.9	116
3	L1	Aroclor-1016 {2}	841.722	837.275		0.5	102
4	L1	Aroclor-1016 {3}	1.130	1.232	E3	-9.1	112
5	L1	Aroclor-1016 {4}	721.143	751.537		-4.2	107
6	L1	Aroclor-1016 {5}	697.156	730.165		-4.7	107
17	L7	Aroclor-1260	1.627	1.788	E3	-9.9	113
18	L7	Aroclor-1260 {2}	2.187	2.298	E3	-5.1	108
19	L7	Aroclor-1260 {3}	2.086	2.122	E3	-1.7	104
20	L7	Aroclor-1260 {4}	1.191	1.408	E3	-18.2#	116
21	L7	Aroclor-1260 {5}	2.370	2.219	E3	6.4	92
22	S	DCB	25.914	22.610	E3	12.8	87

Signal #2
Continuing Calibration File: 15062063.D

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	23.173	27.223	E3	-17.5#	124
2	L1	Aroclor-1016	528.447	644.981		-22.1#	126
3	L1	Aroclor-1016 {2}	1.242	1.407	E3	-13.3	117
4	L1	Aroclor-1016 {3}	1.999	2.158	E3	-7.9	112
5	L1	Aroclor-1016 {4}	632.145	604.780		4.3	98
6	L1	Aroclor-1016 {5}	696.313	753.781		-8.3	112
17	L7	Aroclor-1260	860.037	909.624		-5.8	110
18	L7	Aroclor-1260 {2}	1.436	1.538	E3	-7.1	111
19	L7	Aroclor-1260 {3}	1.699	1.744	E3	-2.6	107
20	L7	Aroclor-1260 {4}	0.975	0.985	E3	-1.0	104
21	L7	Aroclor-1260 {5}	2.365	2.215	E3	6.3	98
22	S	DCB	23.694	20.018	E3	15.5#	84

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

15062063.D XPCBF14.M Thu Jun 21 09:40:52 2001

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_20_01\15062063.D\ECD1A.CH Vial: 59
Signal #2 : F:\HPCHEM\HP\15\DATA\06_20_01\15062063.D\ECD2B.CH
Acq On : 21 Jun 2001 9:09 Operator: DDC
Sample : AR1660L35T Inst : HP_15
Misc : 5-29-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 21 9:40 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.58	7.35	575676	544459	23.0	23.5
22)	S DCB	18.28	18.68	452200	400360	17.4	16.9
	Target Compounds:						
2)	L1 Aroclor-1016	8.41	8.88	298138	257992	451.5	488.2
3)	L1 Aroclor-1016 {2}	9.27	9.87	334910	562630	397.9	453.1
4)	L1 Aroclor-1016 {3}	10.57	10.85	492823	863042	436.3	431.8
	L1 Aroclor-1016 {4}	11.20	11.17	300615	241912	416.9	382.7m
	L1 Aroclor-1016 {5}	11.65	12.30	292066	301512	418.9	433.0
	Sum Aroclor-1016			1718552	2227089	2121.5	2188.8
	Average Aroclor-1016					424.301	437.756
17)	L7 Aroclor-1260	14.32	14.44	715113	363850	439.6	423.1
18)	L7 Aroclor-1260 {2}	14.81	14.73	919243	615383	420.3	428.5
19)	L7 Aroclor-1260 {3}	15.26	14.93	848969	697754	407.0	410.6
20)	L7 Aroclor-1260 {4}	15.72	16.09	563226	393997	472.8	403.9
21)	L7 Aroclor-1260 {5}	16.16	16.32	887454	886174	374.5	374.8
	Sum Aroclor-1260			3934005	2957157	2114.1	2040.8
	Average Aroclor-1260					422.827	408.160

DDC 6-21-01

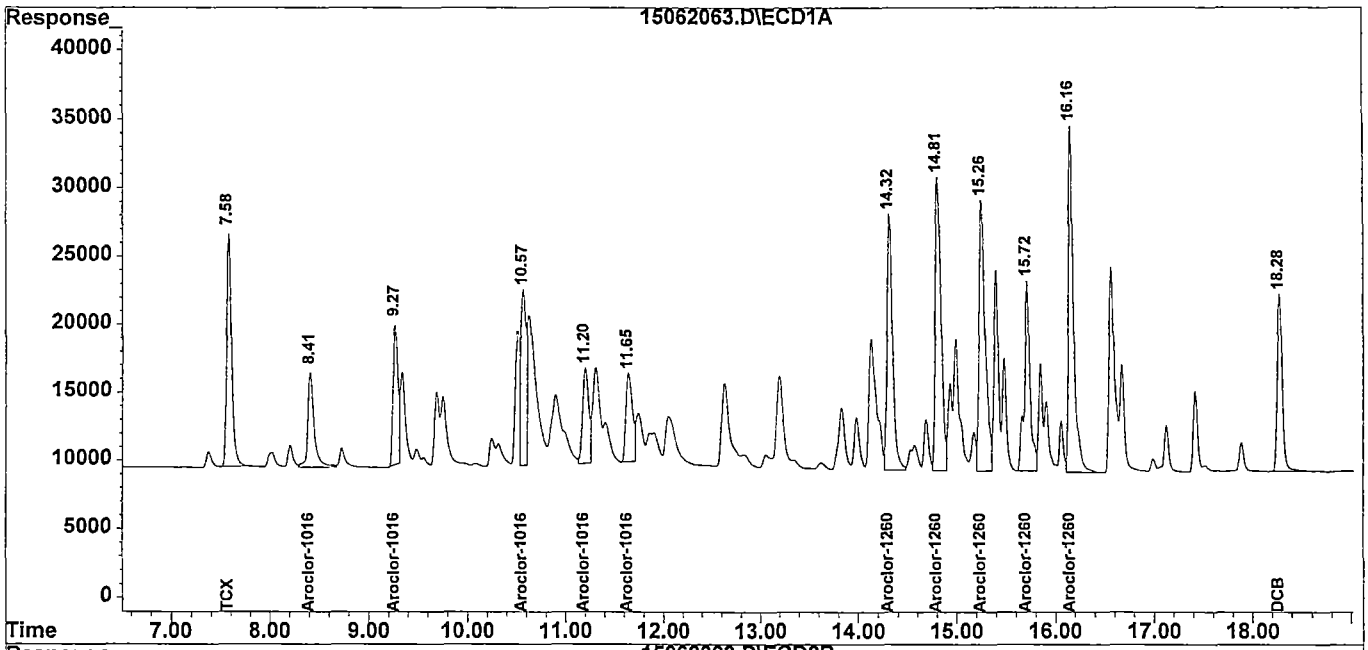
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

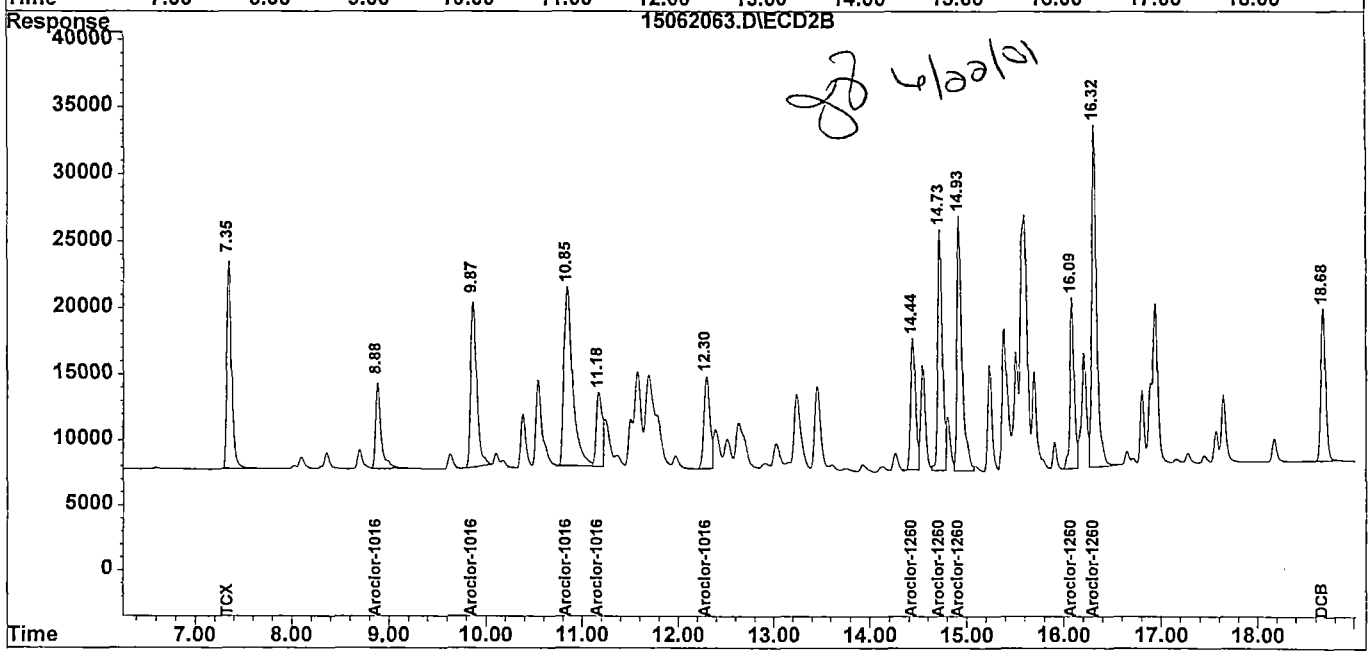
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_20_01\15062063.D\ECD1A.CH Vial: 59
Signal #2 : F:\HPCHEM\HP\15\DATA\06_20_01\15062063.D\ECD2B.CH
Acq On : 21 Jun 2001 9:09 Operator: DDC
Sample : AR1660L35T Inst : HP_15
Misc : 5-29-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 21 9:40 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

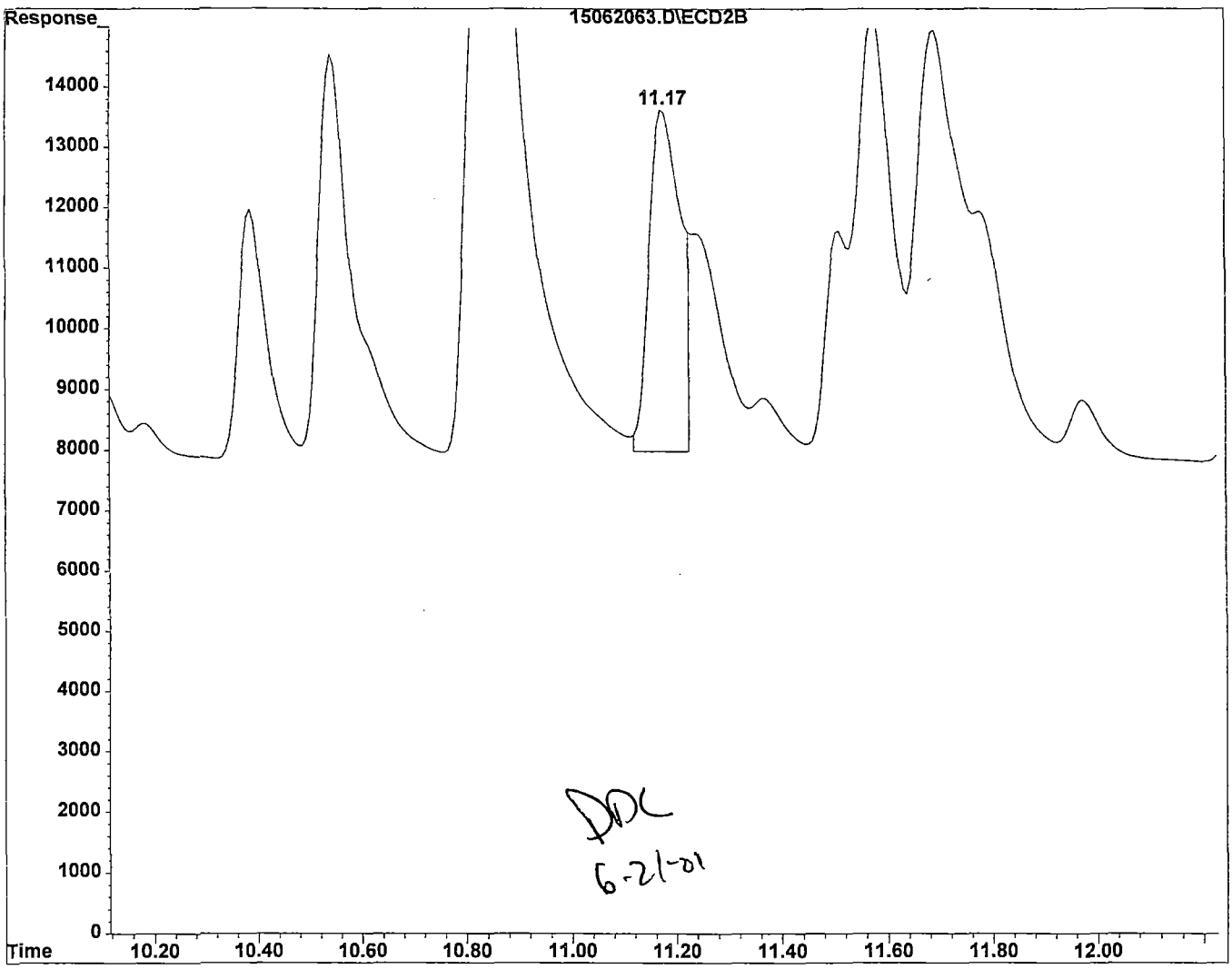
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\15\DATA\06_20_01\15062063.D
Date Acquired: 21 Jun 2001 9:09
Inst: HP_15 Operator ID: DDC
Name: AR1660L35T
Misc: 5-29-7
Method: F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title: PCB/TOXAPHENE
Quant Time: Jun 21 9:40 2001 Quant Results File: XPCBF14.RES



Aroclor-1016 {4} #2 11.17min area: 241912 m

Integration Time Range: 11.12 - 11.23

F:\HPCHEM\HP\15\DATA\06_20_01\15062063.D
Report generated: Thu Jun 21 09:41:24 2001

Continuing Calibration Report HP_15

Method : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 21 15:41:04 2001
Response via : Initial Calibration

Continuing Calibration File: 15062079.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	25.081	26.781	E3	-6.8	112
2	L1	Aroclor-1016	660.269	692.313		-4.9	107
3	L1	Aroclor-1016 {2}	841.722	763.071		9.3	93
4	L1	Aroclor-1016 {3}	1.130	1.136	E3	-0.6	103
5	L1	Aroclor-1016 {4}	721.143	683.581		5.2	97
6	L1	Aroclor-1016 {5}	697.156	657.763		5.7	96
17	L7	Aroclor-1260	1.627	1.652	E3	-1.5	104
18	L7	Aroclor-1260 {2}	2.187	2.084	E3	4.7	98
19	L7	Aroclor-1260 {3}	2.086	1.904	E3	8.7	93
20	L7	Aroclor-1260 {4}	1.191	1.225	E3	-2.8	101
21	L7	Aroclor-1260 {5}	2.370	1.897	E3	20.0#	79
22	S	DCB	25.914	17.763	E3	31.5#	68

Signal #2
Continuing Calibration File: 15062079.D

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	23.173	25.732	E3	-11.0	117
2	L1	Aroclor-1016	528.447	648.924		-22.8#	127
3	L1	Aroclor-1016 {2}	1.242	1.310	E3	-5.5	109
4	L1	Aroclor-1016 {3}	1.999	1.913	E3	4.3	100
5	L1	Aroclor-1016 {4}	632.145	517.233		18.2#	84
6	L1	Aroclor-1016 {5}	696.313	690.233		0.9	102
17	L7	Aroclor-1260	860.037	844.669		1.8	102
18	L7	Aroclor-1260 {2}	1.436	1.419	E3	1.2	102
19	L7	Aroclor-1260 {3}	1.699	1.628	E3	4.2	100
20	L7	Aroclor-1260 {4}	0.975	0.911	E3	6.6	97
21	L7	Aroclor-1260 {5}	2.365	2.044	E3	13.6	91
22	S	DCB	23.694	17.310	E3	26.9#	72

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

15062079.D XPCBF14.M Thu Jun 21 15:41:10 2001

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_20_01\15062079.D\ECD1A.CH Vial: 75
Signal #2 : F:\HPCHEM\HP\15\DATA\06_20_01\15062079.D\ECD2B.CH
Acq On : 21 Jun 2001 15:20 Operator: DDC
Sample : AR1660L35 #2 Inst : HP_15
Misc : 5-29-7 06/22/4 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 21 15:40 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.59	7.35	535624	514638	21.4	22.2
22)	S DCB	18.28	18.68	355257	346205	13.7	14.6
	Target Compounds:						
2)	L1 Aroclor-1016	8.42	8.89	276925	259570	419.4	491.2
3)	L1 Aroclor-1016 {2}	9.27	9.87	305228	523988	362.6	422.0
4)	L1 Aroclor-1016 {3}	10.57	10.86	454440	765205	402.3m	382.8
`	L1 Aroclor-1016 {4}	11.21	11.18	273432	206893	379.2	327.3
,	L1 Aroclor-1016 {5}	11.66	12.31	263105	276093	377.4	396.5
	Sum Aroclor-1016			1573131	2031750	1940.9	2019.8
	Average Aroclor-1016					388.180	403.960
17)	L7 Aroclor-1260	14.32	14.45	660693	337868	406.2	392.9
18)	L7 Aroclor-1260 {2}	14.81	14.73	833744	567632	381.2	395.2
19)	L7 Aroclor-1260 {3}	15.26	14.93	761655	651127	365.1	383.1
20)	L7 Aroclor-1260 {4}	15.72	16.09	489832	364252	411.2	373.4
21)	L7 Aroclor-1260 {5}	16.16	16.32	758817	817547	320.2	345.7
	Sum Aroclor-1260			3504741	2738425	1883.8	1890.4
	Average Aroclor-1260					376.769	378.078

DDL 6-21-01

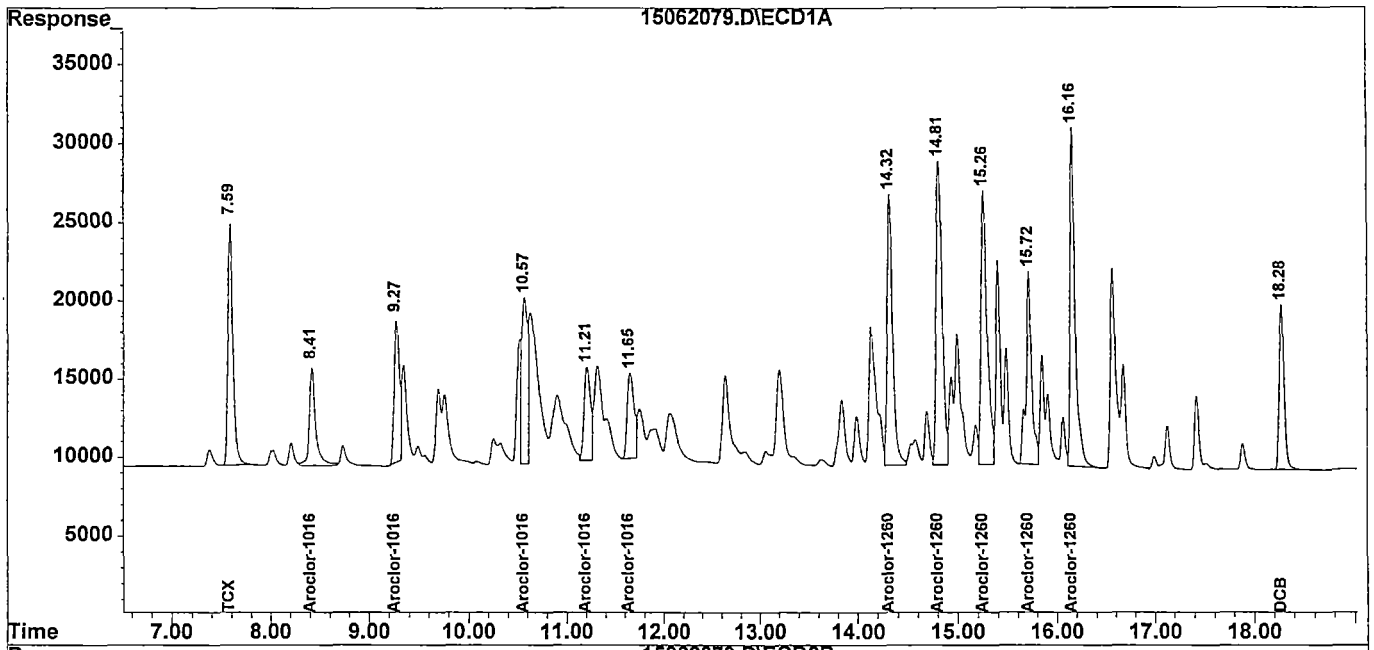
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

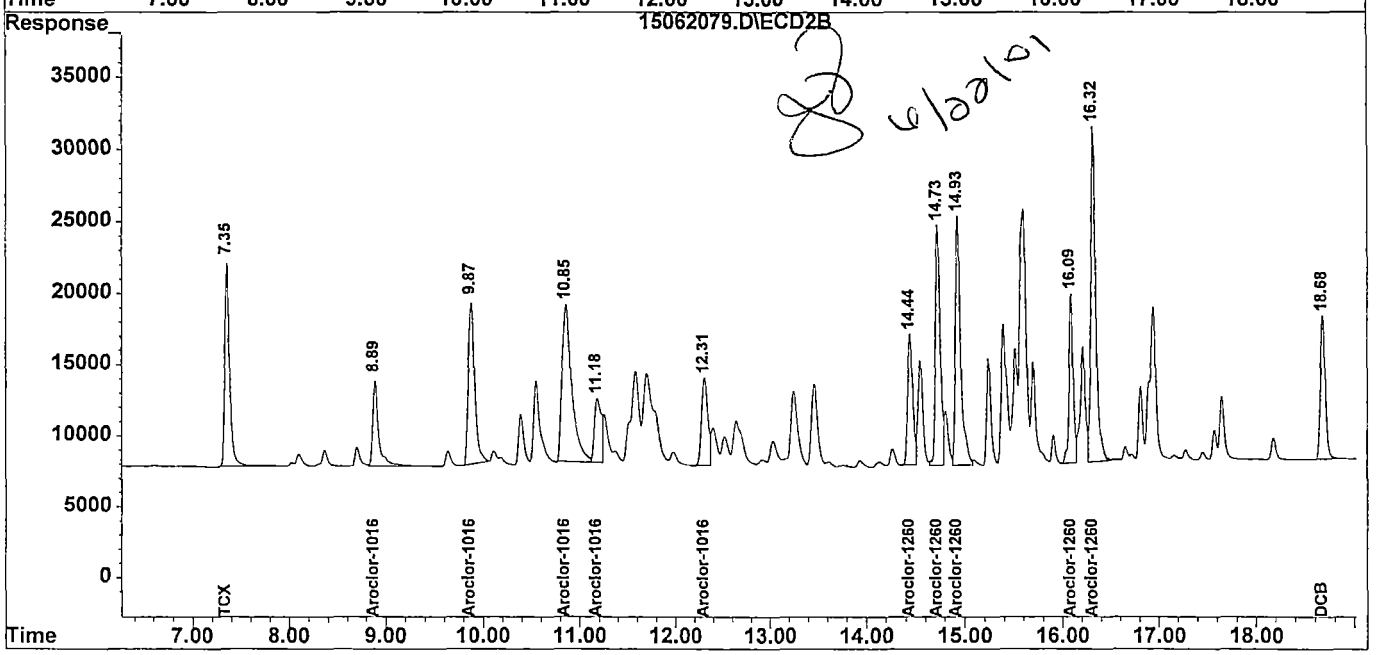
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_20_01\15062079.D\ECD1A.CH Vial: 75
Signal #2 : F:\HPCHEM\HP\15\DATA\06_20_01\15062079.D\ECD2B.CH
Acq On : 21 Jun 2001 15:20 Operator: DDC
Sample : AR1660L35 Inst : HP_15
Misc : 5-29-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 21 15:40 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

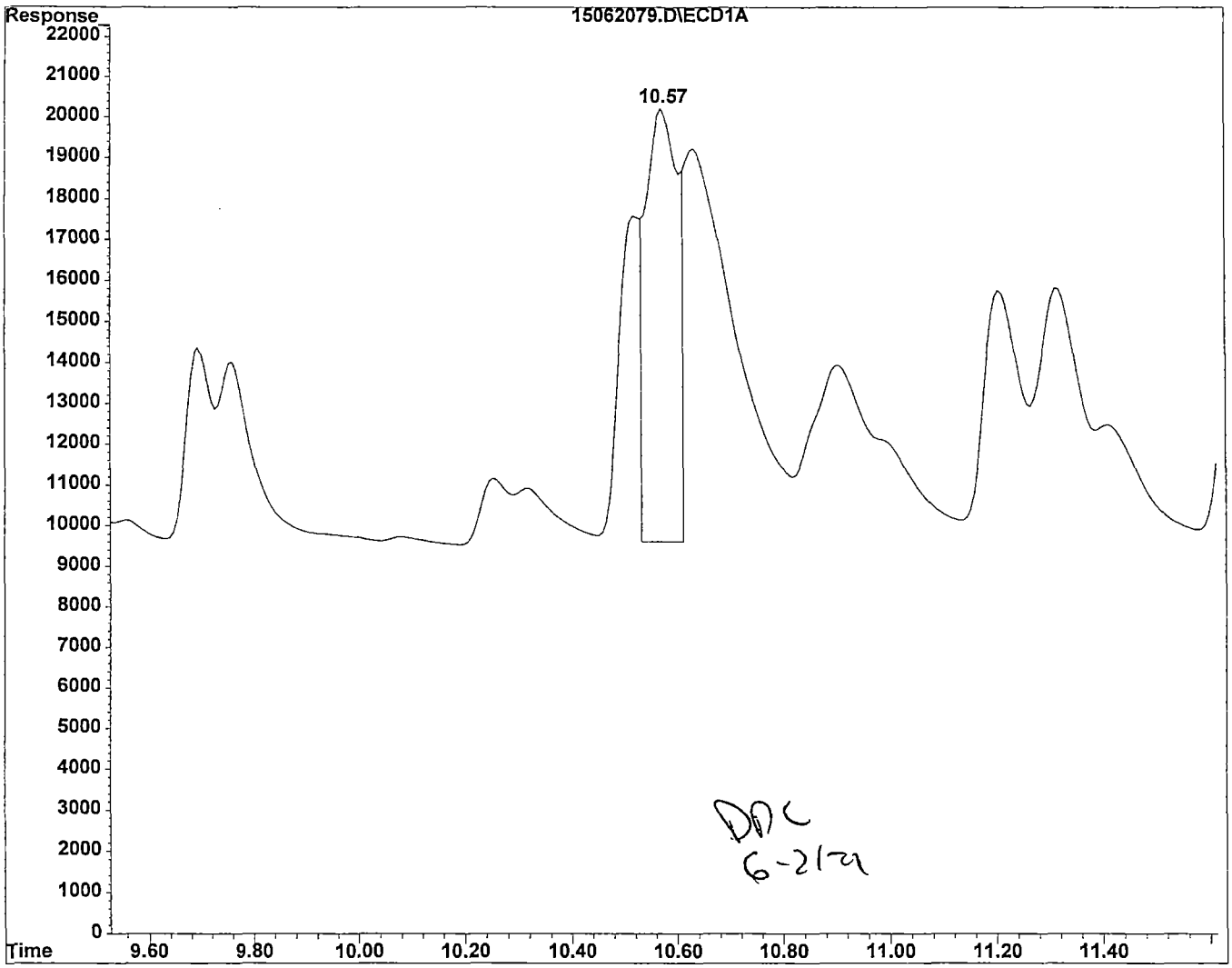
Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





MANUAL INTEGRATION REPORT

Data File: F:\HPCHEM\HP\15\DATA\06_20_01\15062079.D
Date Acquired: 21 Jun 2001 15:20
Inst: HP_15 Operator ID: DDC
Name: AR1660L35V2 06/22/01
Misc: 5-29-7
Method: F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title: PCB/TOXAPHENE
Quant Time: Jun 21 15:40 2001 Quant Results File: XPCBF14.RES



Aroclor-1016 {3} 10.57min area: 454440 m

Integration Time Range: 10.53 - 10.61

F:\HPCHEM\HP\15\DATA\06_20_01\15062079.D
Report generated: Thu Jun 21 15:41:01 2001

Continuing Calibration Report HP_15

Method : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 21 21:25:38 2001
Response via : Initial Calibration

Continuing Calibration File: 15062092.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	25.081	28.056	E3	-11.9	117
2	L1	Aroclor-1016	660.269	734.808		-11.3	114
3	L1	Aroclor-1016 {2}	841.722	796.127		5.4	97
4	L1	Aroclor-1016 {3}	1.130	1.133	E3	-0.3	103
5	L1	Aroclor-1016 {4}	721.143	729.977		-1.2	104
6	L1	Aroclor-1016 {5}	697.156	703.526		-0.9	103
17	L7	Aroclor-1260	1.627	1.814	E3	-11.5	114
18	L7	Aroclor-1260 {2}	2.187	2.301	E3	-5.2	108
19	L7	Aroclor-1260 {3}	2.086	2.110	E3	-1.1	103
20	L7	Aroclor-1260 {4}	1.191	1.436	E3	-20.5#	118
21	L7	Aroclor-1260 {5}	2.370	2.171	E3	8.4	90
22	S	DCB	25.914	19.598	E3	24.4#	75

Signal #2
Continuing Calibration File: 15062092.D

		Compound	AvgRF	CCRF		%Dev	Area%
1	S	TCX	23.173	27.265	E3	-17.7#	124
2	L1	Aroclor-1016	528.447	685.529		-29.7#	134
3	L1	Aroclor-1016 {2}	1.242	1.399	E3	-12.7	116
4	L1	Aroclor-1016 {3}	1.999	2.070	E3	-3.6	108
5	L1	Aroclor-1016 {4}	632.145	573.826		9.2	93
6	L1	Aroclor-1016 {5}	696.313	752.770		-8.1	111
17	L7	Aroclor-1260	860.037	927.893		-7.9	112
18	L7	Aroclor-1260 {2}	1.436	1.586	E3	-10.4	114
19	L7	Aroclor-1260 {3}	1.699	1.793	E3	-5.5	110
20	L7	Aroclor-1260 {4}	0.975	1.030	E3	-5.6	109
21	L7	Aroclor-1260 {5}	2.365	2.263	E3	4.3	100
22	S	DCB	23.694	18.472	E3	22.0#	77

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

15062092.D XPCBF14.M Thu Jun 21 21:25:44 2001

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_20_01\15062092.D\ECD1A.CH Vial: 88
Signal #2 : F:\HPCHEM\HP\15\DATA\06_20_01\15062092.D\ECD2B.CH
Acq On : 21 Jun 2001 20:21 Operator: DDC
Sample : AR1660L35X Inst : HP_15
Misc : 5-29-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 21 21:25 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.59	7.35	561118	545301	22.4	23.5
22)	S DCB	18.28	18.68	391966	369445	15.1	15.6
	Target Compounds:						
2)	L1 Aroclor-1016	8.42	8.89	293923	274212	445.2	518.9
3)	L1 Aroclor-1016 {2}	9.27	9.87	318451	559793	378.3	450.8
4)	L1 Aroclor-1016 {3}	10.58	10.86	453216	828069	401.2	414.3
[illegible]	L1 Aroclor-1016 {4}	11.21	11.18	291991	229531	404.9	363.1
[illegible]	L1 Aroclor-1016 {5}	11.66	12.31	281410	301108	403.7	432.4
	Sum Aroclor-1016			1638991	2192713	2033.3	2179.5
	Average Aroclor-1016					406.652	435.905
17)	L7 Aroclor-1260	14.32	14.45	725623	371157	446.1	431.6
18)	L7 Aroclor-1260 {2}	14.81	14.73	920477	634210	420.8	441.6
19)	L7 Aroclor-1260 {3}	15.26	14.93	843971	717077	404.6	421.9
20)	L7 Aroclor-1260 {4}	15.72	16.10	574308	412196	482.1	422.6
21)	L7 Aroclor-1260 {5}	16.16	16.33	868318	905391	366.4	382.9
	Sum Aroclor-1260			3932698	3040032	2120.0	2100.6
	Average Aroclor-1260					423.998	420.112

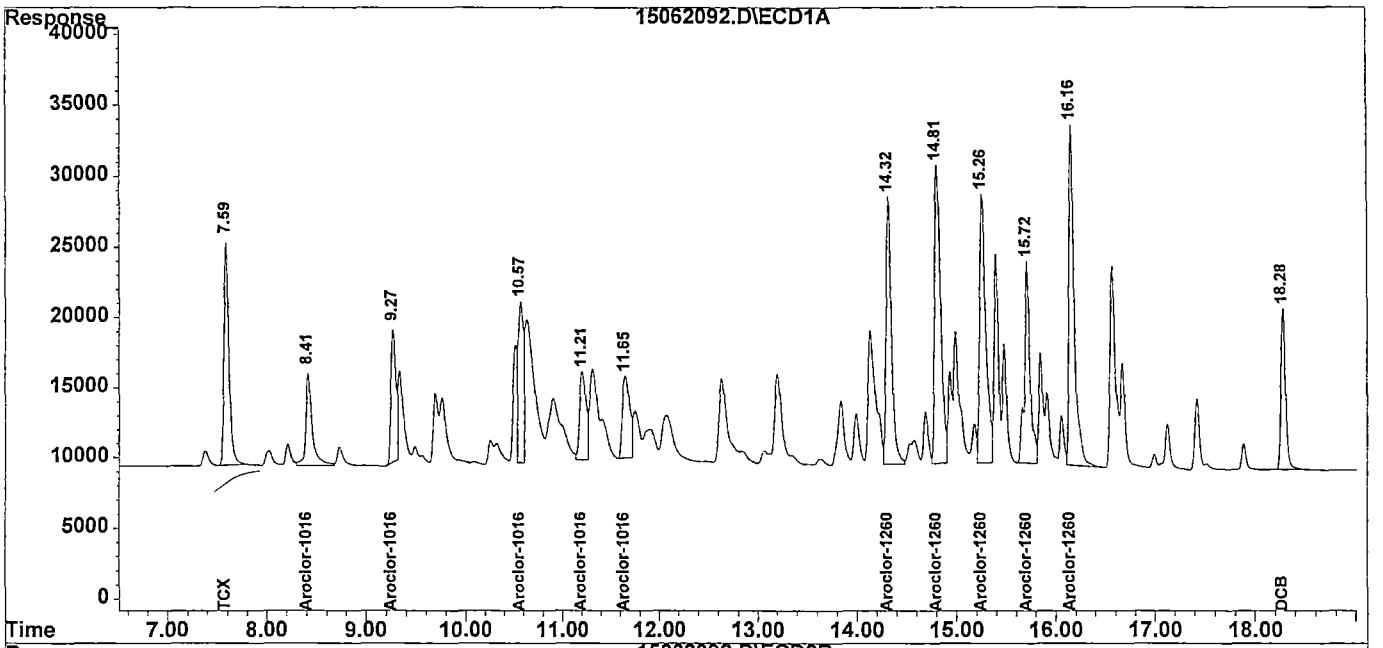
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

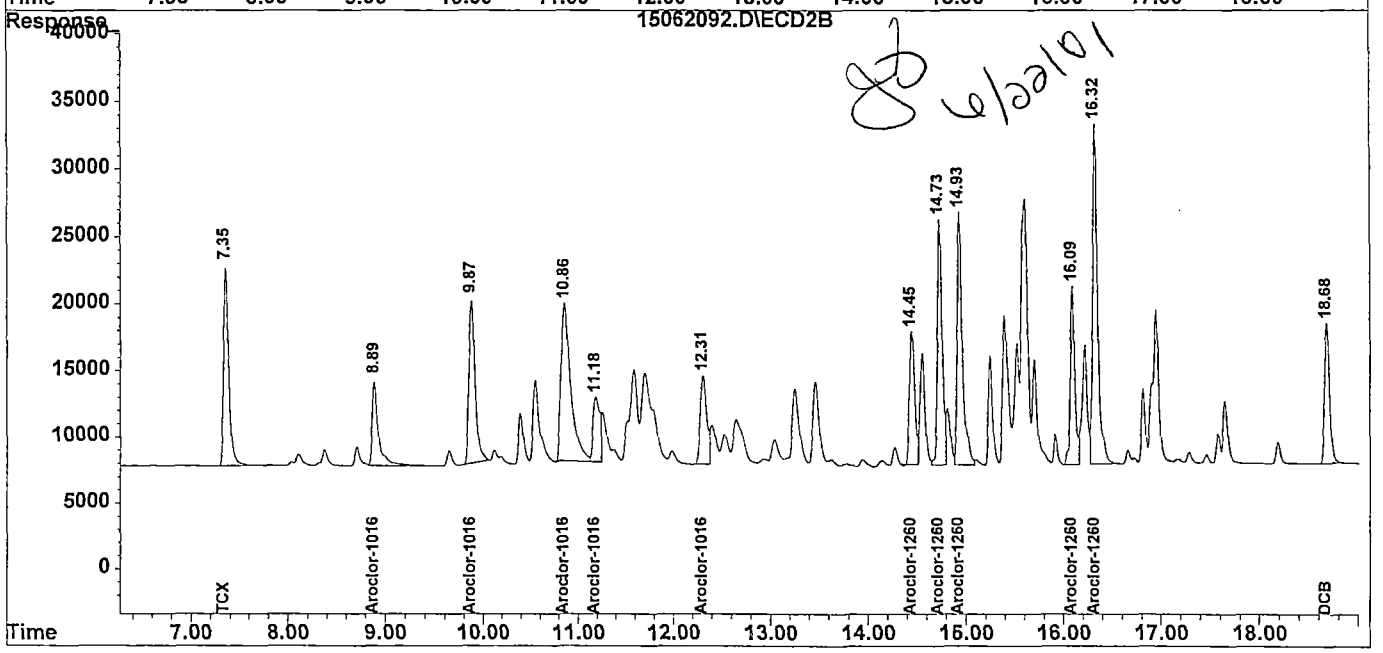
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_20_01\15062092.D\ECD1A.CH Vial: 88
Signal #2 : F:\HPCHEM\HP\15\DATA\06_20_01\15062092.D\ECD2B.CH
Acq On : 21 Jun 2001 20:21 Operator: DDC
Sample : AR1660L35X Inst : HP_15
Misc : 5-29-7 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 21 21:25 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/22/01

HYDROGEN USED AS CARRIER GAS FOR SAMPLE ANALYSES

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PBLKSC

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30W6

Matrix: (soil/water) SOIL Lab Sample ID: BL0609SC

Sample wt/vol: 30.0 (g/mL) G Lab File ID:_____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) N Date Extracted:06/09/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/21/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	33	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	33	U
	Surrogate amount spiked	6.67	

FORM I PCB

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_20_01\15062043.D\ECD1A.CH Vial: 39
Signal #2 : F:\HPCHEM\HP\15\DATA\06_20_01\15062043.D\ECD2B.CH
Acq On : 21 Jun 2001 1:27 Operator: DDC
Sample : BL0609SC *PBLKSC * Inst : HP_15
Misc : **30.0G/5.0ML* Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 21 8:52 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.58	7.35	454610	424595	6.042	6.108
	Spiked Amount 6.667			Recovery	=	90.63%	91.62%
22)	S DCB	18.28	18.68	458116	440638	5.893	6.199
	Spiked Amount 6.667			Recovery	=	88.40%	92.99%

Target Compounds:

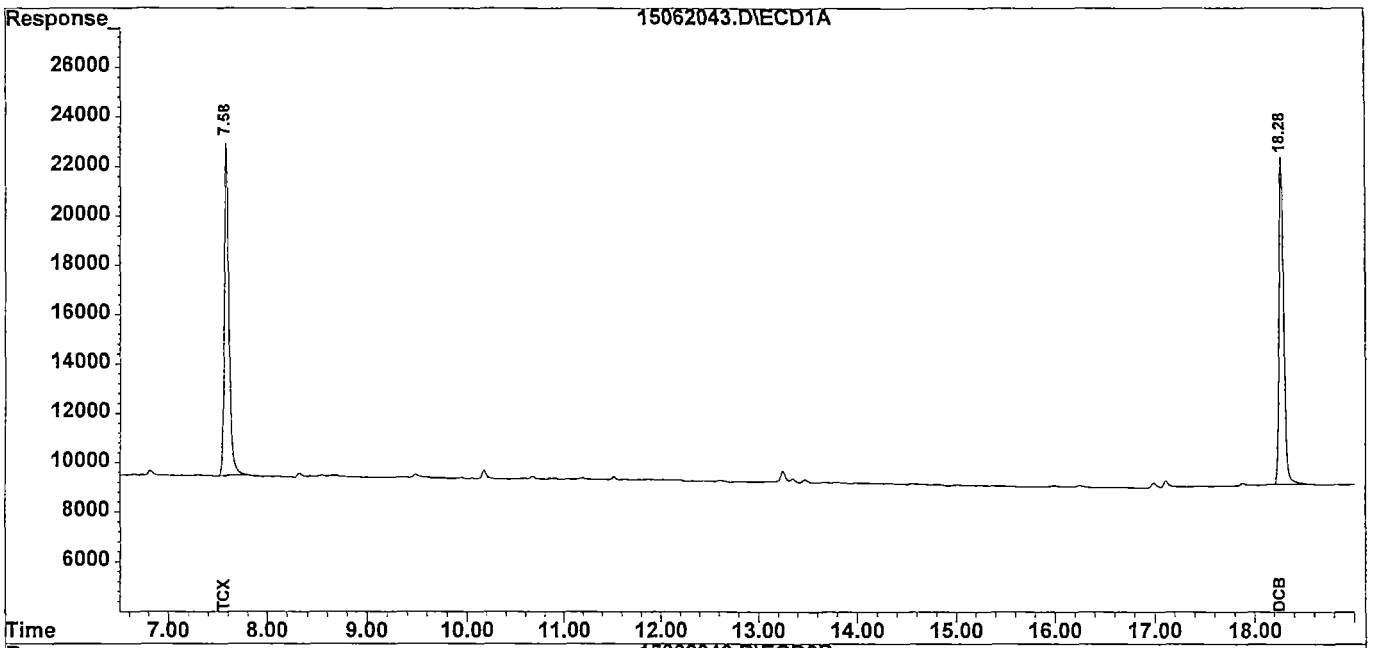
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

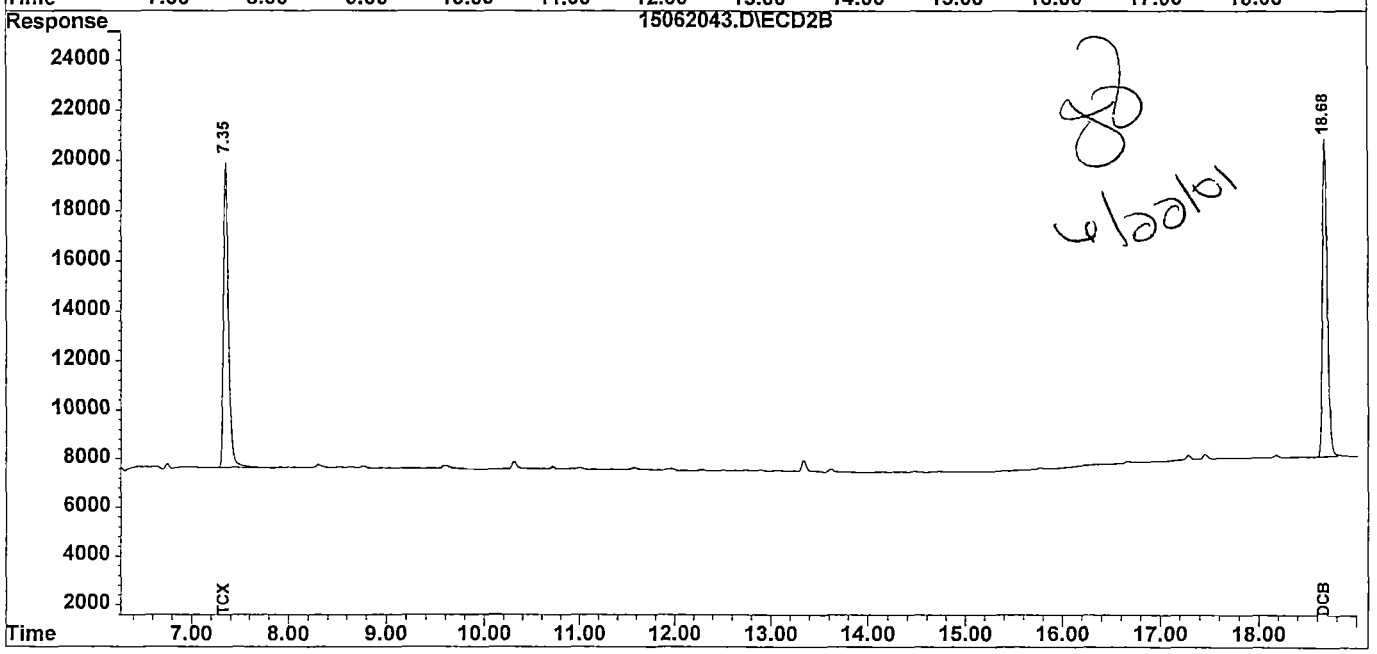
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_20_01\15062043.D\ECD1A.CH Vial: 39
Signal #2 : F:\HPCHEM\HP\15\DATA\06_20_01\15062043.D\ECD2B.CH
Acq On : 21 Jun 2001 1:27 Operator: DDC
Sample : BL0609SC *PBLKSC * Inst : HP_15
Misc : **30.0G/5.0ML* Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 21 8:52 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/20/01

HYDROGEN USED AS CARRIER GAS FOR SAMPLE ANALYSES

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLK5G

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30W6

Matrix: (soil/water) WATER Lab Sample ID: 5-414-6

Sample wt/vol: _____ (g/mL) Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 06/15/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

FORM I PCB

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLK5G

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30W6

Matrix: (soil/water) WATER Lab Sample ID: 5-414-6

Sample wt/vol: _____ (g/mL) Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 06/15/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

FORM I PCB

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061425.D\ECD1A.CH Vial: 25
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061425.D\ECD2B.CH
Acq On : 15 Jun 2001 3:13 Operator: DDC
Sample : PIBLK5G Inst : HP_15
Misc : 5-414-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 8:35 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.59	7.35	480768	444722	19.2	19.2
22)	S DCB	18.29	18.70	481909	443587	18.6	18.7

Target Compounds:

COPY
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E3065
Signature Bonita M. Williams
Date 06/19/01

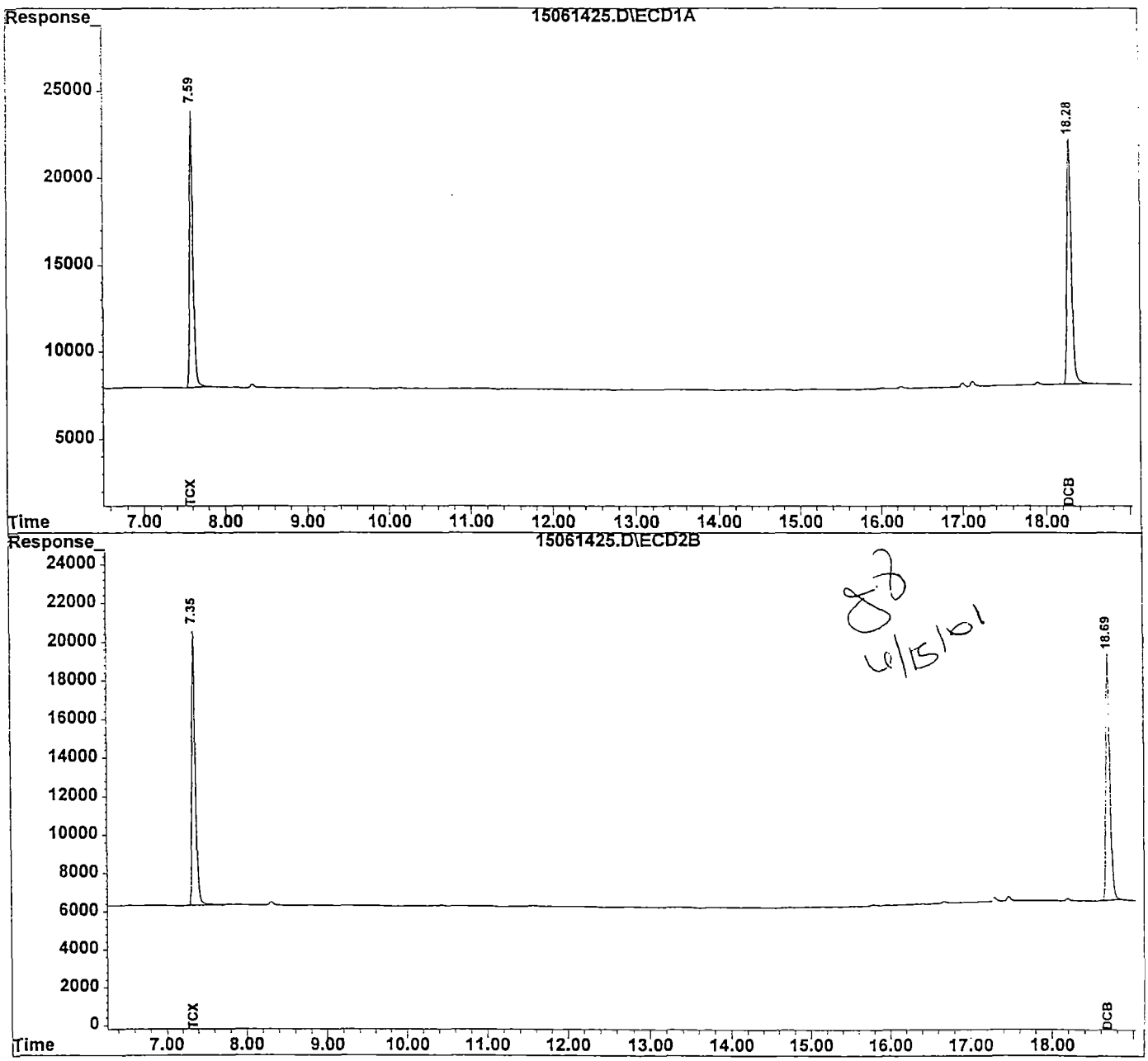
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_14_01\15061425.D\ECD1A.CH Vial: 25
Signal #2 : F:\HPCHEM\HP\15\DATA\06_14_01\15061425.D\ECD2B.CH
Acq On : 15 Jun 2001 3:13 Operator: DDC
Sample : PIBLK5G Inst : HP_15
Misc : 5-414-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 15 8:35 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_14_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B



1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLKI5

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30W6

Matrix: (soil/water) WATER Lab Sample ID: 5-414-6

Sample wt/vol: _____ (g/mL) Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 06/20/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

FORM I PCB

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLKI5

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30W6

Matrix: (soil/water) WATER Lab Sample ID: 5-414-6

Sample wt/vol: _____ (g/mL) Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 06/20/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

FORM I PCB

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_20_01\15062038.D\ECD1A.CH Vial: 34
Signal #2 : F:\HPCHEM\HP\15\DATA\06_20_01\15062038.D\ECD2B.CH
Acq On : 20 Jun 2001 23:31 Operator: DDC
Sample : PIBLKI5 Inst : HP_15
Misc : 5-414-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 21 7:04 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.58	7.35	544393	506601	21.7	21.9
22)	S DCB	18.28	18.68	463753	441028	17.9	18.6

Target Compounds:

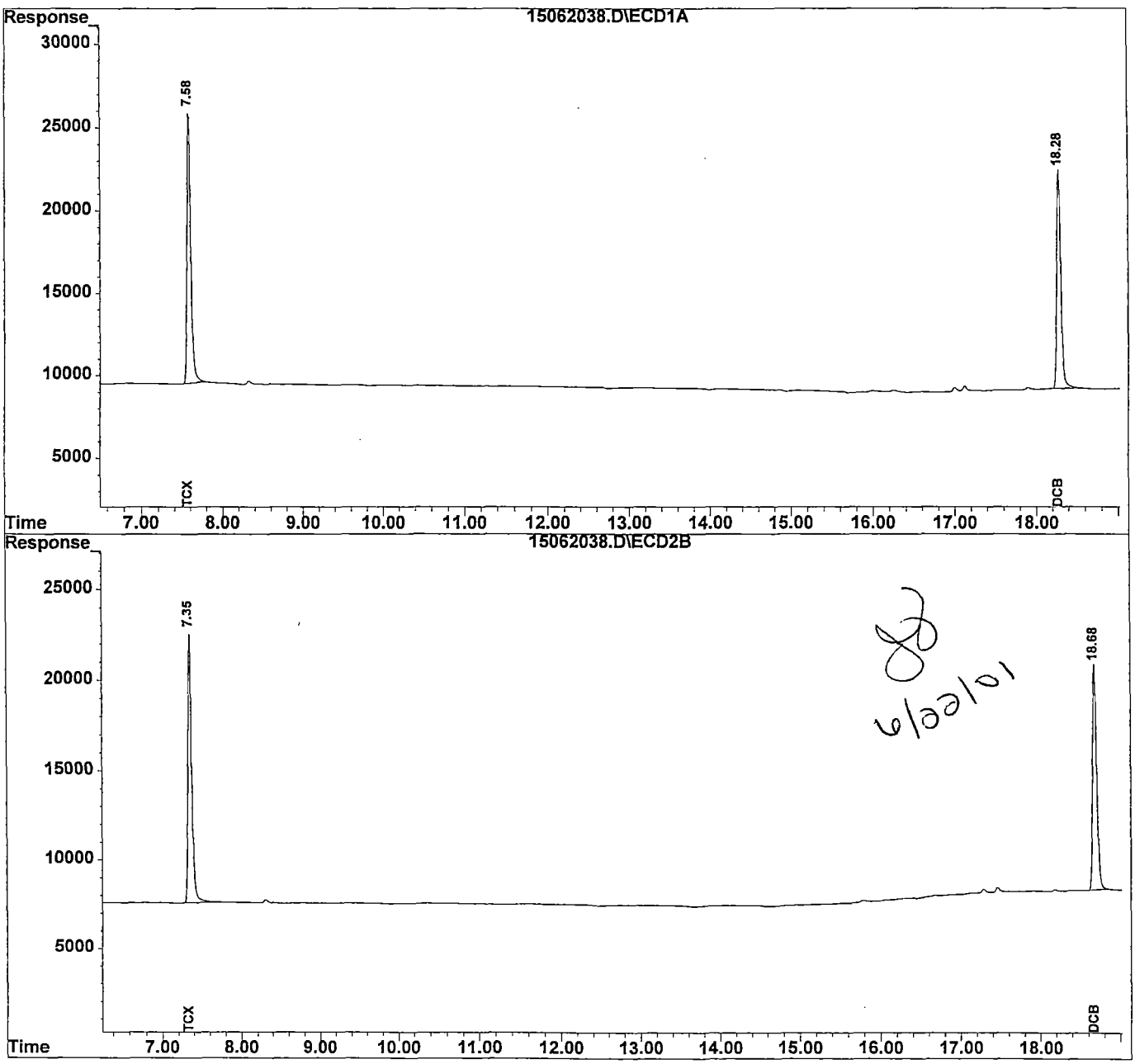
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_20_01\15062038.D\ECD1A.CH Vial: 34
Signal #2 : F:\HPCHEM\HP\15\DATA\06_20_01\15062038.D\ECD2B.CH
Acq On : 20 Jun 2001 23:31 Operator: DDC
Sample : PIBLKI5 Inst : HP_15
Misc : 5-414-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 21 7:04 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B



6/22/01

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLKK5

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30W6

Matrix: (soil/water) WATER Lab Sample ID: 5-414-6

Sample wt/vol: _____ (g/mL) Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 06/21/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

FORM I PCB

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLKK5

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30W6

Matrix: (soil/water) WATER Lab Sample ID: 5-414-6

Sample wt/vol: _____ (g/mL) Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 06/21/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

FORM I PCB

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_20_01\15062062.D\ECD1A.CH Vial: 58
Signal #2 : F:\HPCHEM\HP\15\DATA\06_20_01\15062062.D\ECD2B.CH
Acq On : 21 Jun 2001 8:46 Operator: DDC
Sample : PIBLKK5 Inst : HP_15
Misc : 5-414-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 21 9:37 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 21 09:40:46 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.58	7.35	545290	518126	21.7	22.4
22)	S DCB	18.28	18.68	333657	315903	12.9	13.3
	Target Compounds:						

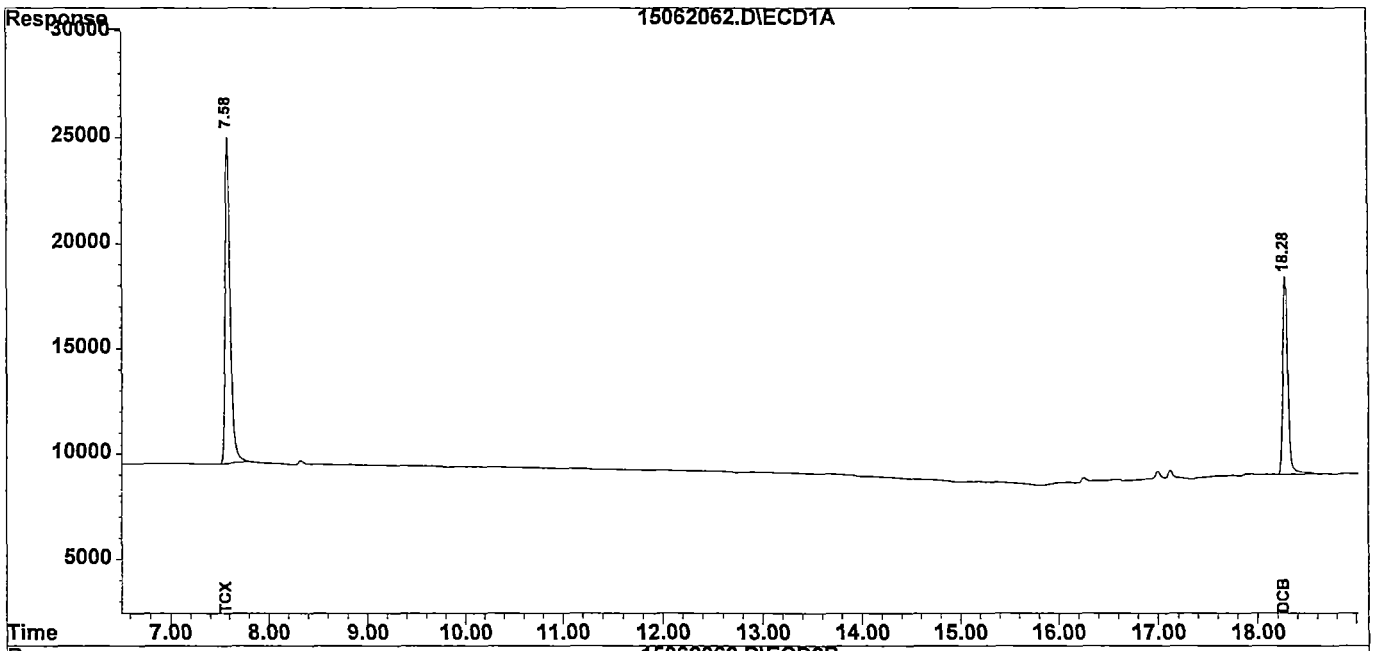
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

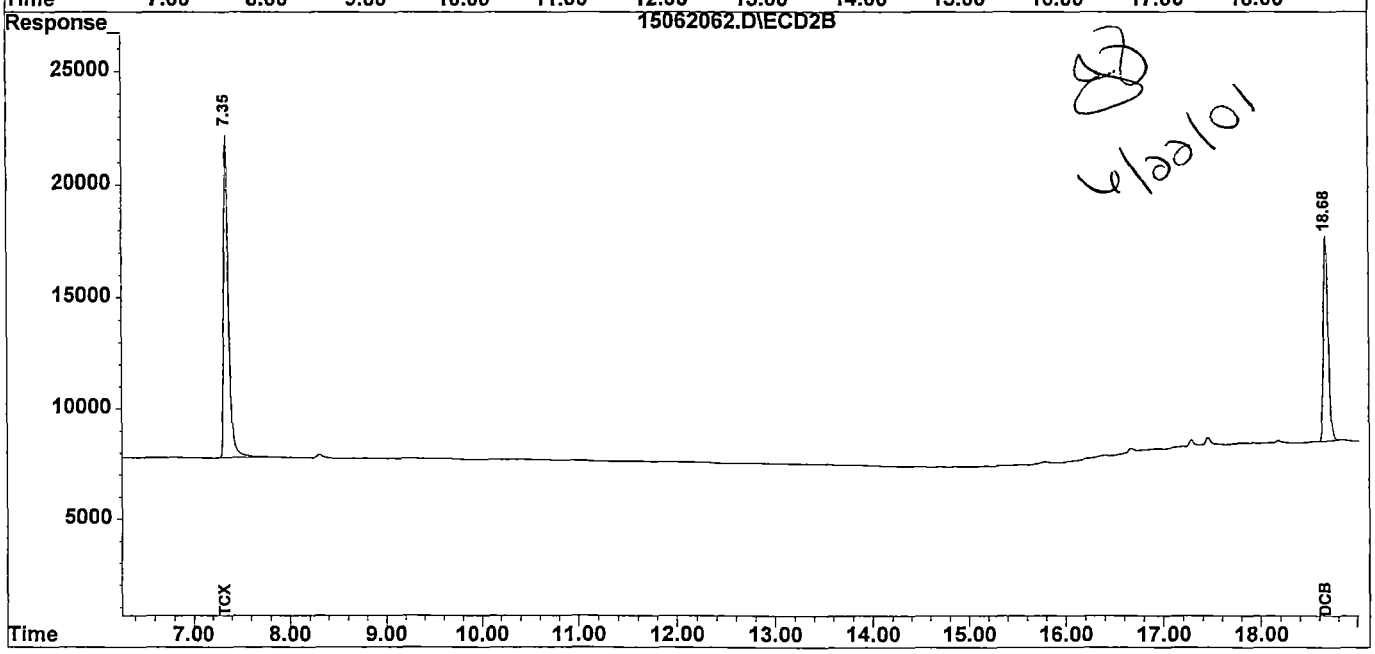
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_20_01\15062062.D\ECD1A.CH Vial: 58
Signal #2 : F:\HPCHEM\HP\15\DATA\06_20_01\15062062.D\ECD2B.CH
Acq On : 21 Jun 2001 8:46 Operator: DDC
Sample : PIBLKK5 Inst : HP_15
Misc : 5-414-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 21 9:37 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/22/01

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLKL5

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30W6

Matrix: (soil/water) WATER Lab Sample ID: 5-414-6

Sample wt/vol: _____ (g/mL) Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 06/21/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

FORM I PCB

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLKL5

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30W6

Matrix: (soil/water) WATER Lab Sample ID: 5-414-6

Sample wt/vol: _____ (g/mL) Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 06/21/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

FORM I PCB

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_20_01\15062078.D\ECD1A.CH Vial: 74
Signal #2 : F:\HPCHEM\HP\15\DATA\06_20_01\15062078.D\ECD2B.CH
Acq On : 21 Jun 2001 14:56 Operator: DDC
Sample : PIBLKL5 Inst : HP_15
Misc : 5-414-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 21 15:21 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 21 15:41:04 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.59	7.35	528836	515001	21.1	22.2
22)	S DCB	18.28	18.68	331546	325266	12.8	13.7
	Target Compounds:						

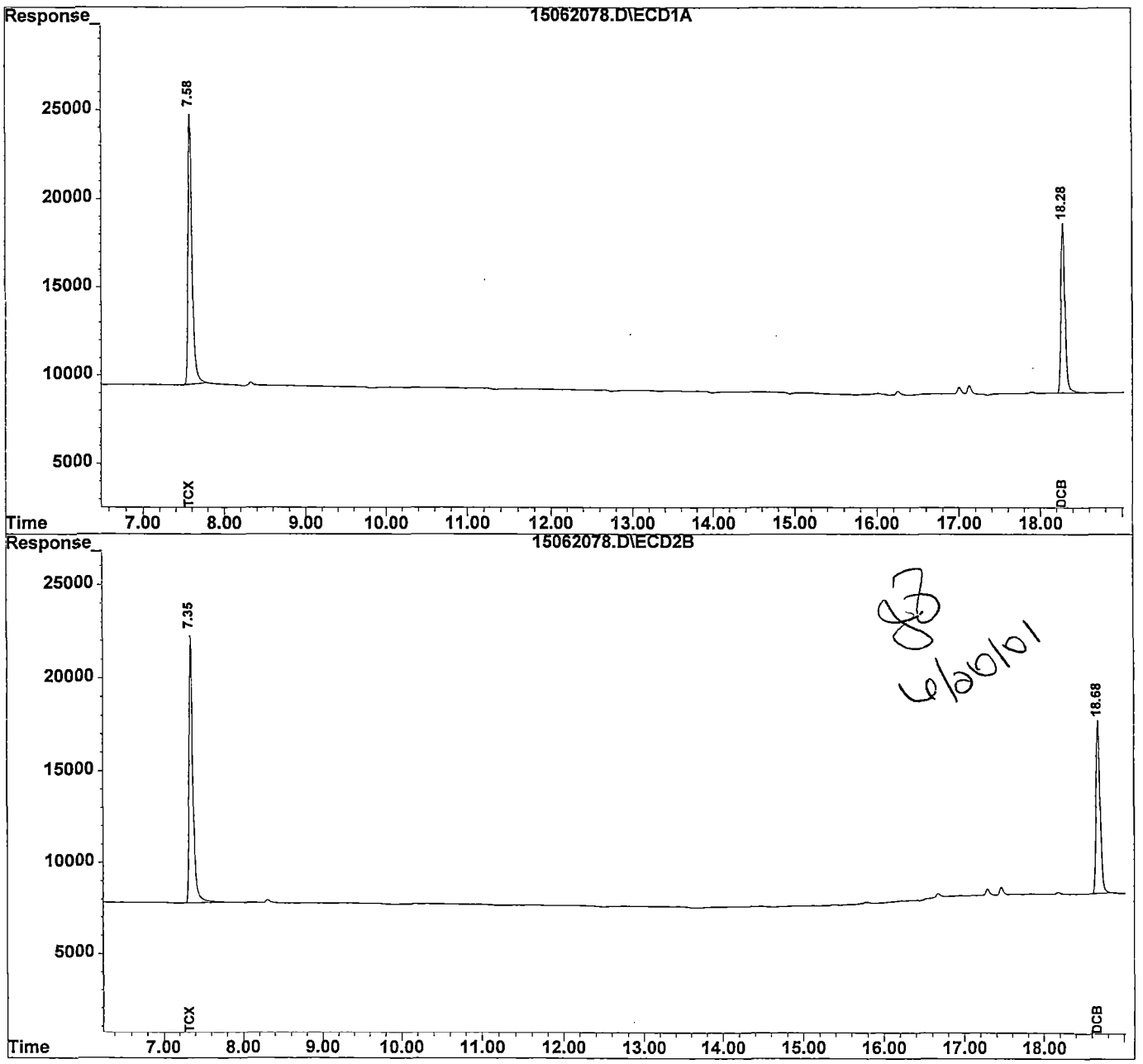
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_20_01\15062078.D\ECD1A.CH Vial: 74
Signal #2 : F:\HPCHEM\HP\15\DATA\06_20_01\15062078.D\ECD2B.CH
Acq On : 21 Jun 2001 14:56 Operator: DDC
Sample : PIBLKL5 Inst : HP_15
Misc : 5-414-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 21 15:21 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B



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6/20/01

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLKM5

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30W6

Matrix: (soil/water) WATER Lab Sample ID: 5-414-6

Sample wt/vol: _____ (g/mL) Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 06/21/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

FORM I PCB

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLKM5

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30W6

Matrix: (soil/water) WATER Lab Sample ID: 5-414-6

Sample wt/vol: _____ (g/mL) Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: _____ (uL) Date Analyzed: 06/21/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

FORM I PCB

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_20_01\15062091.D\ECD1A.CH Vial: 87
Signal #2 : F:\HPCHEM\HP\15\DATA\06_20_01\15062091.D\ECD2B.CH
Acq On : 21 Jun 2001 19:58 Operator: DDC
Sample : PIBLKM5 Inst : HP_15
Misc : 5-414-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 21 21:25 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 21 21:25:38 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds:						
1)	S TCX	7.59	7.35	528408	519590	21.1	22.4
22)	S DCB	18.28	18.69	332946	299428	12.8	12.6

Target Compounds:

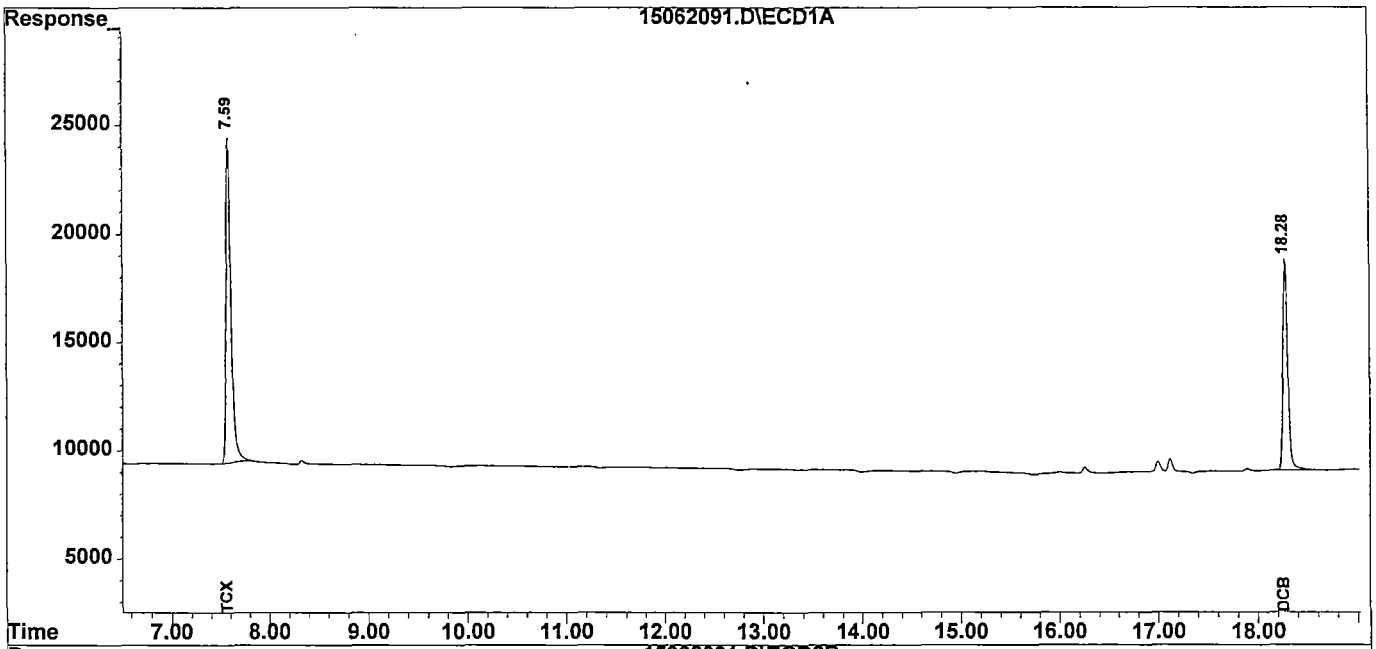
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

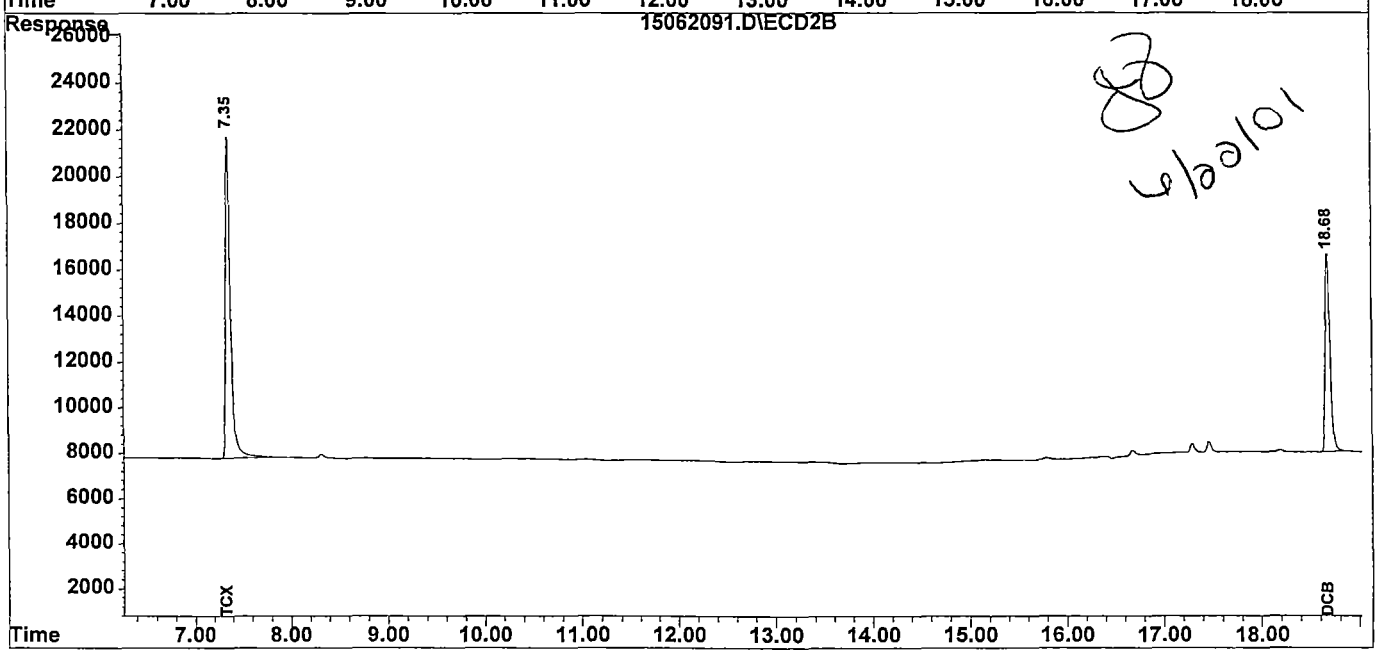
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_20_01\15062091.D\ECD1A.CH Vial: 87
Signal #2 : F:\HPCHEM\HP\15\DATA\06_20_01\15062091.D\ECD2B.CH
Acq On : 21 Jun 2001 19:58 Operator: DDC
Sample : PIBLKM5 Inst : HP_15
Misc : 5-414-6 Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 21 21:25 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





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6/22/01

HYDROGEN USED AS CARRIER GAS FOR SAMPLE ANALYSES

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ELCS1

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30W6

Matrix: (soil/water) SOIL Lab Sample ID: LC0609SC

Sample wt/vol: 30.0 (g/mL) G Lab File ID:_____

% Moisture: 0 decanted: (Y/N) __ Date Received: 06/09/01

Extraction: (SepF/Cont/Sonc) N Date Extracted:06/09/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/21/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	33	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	100	
11096-82-5	Aroclor-1260	33	U
	Surrogate amount spiked	6.67	

FORM I PCB

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_20_01\15062045.D\ECD1A.CH Vial: 41
Signal #2 : F:\HPCHEM\HP\15\DATA\06_20_01\15062045.D\ECD2B.CH
Acq On : 21 Jun 2001 2:13 Operator: DDC
Sample : LC0609SC *ELCS1 * Inst : HP_15
Misc : **30.0G/5.0ML* Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 21 8:52 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.59	7.35	361487	331473	4.804	4.768
	Spiked Amount 6.667			Recovery	=	72.06%	71.52%
22)	S DCB	18.28	18.68	345255	331096	4.441	4.658
	Spiked Amount 6.667			Recovery	=	66.62%	69.87%
	Target Compounds:						
12)	L6 Aroclor-1254	12.63	12.31	385171	119871	110.6	110.5
1[illegible])	L6 Aroclor-1254 {2}	13.33	13.04	217376	143994	97.6	101.0
[illegible])	L6 Aroclor-1254 {3}	13.80	13.94	326634	149175	105.5	95.9
15)	L6 Aroclor-1254 {4}	14.32	14.93	284684	238042	102.6	107.2
16)	L6 Aroclor-1254 {5}	15.00	15.40	258227	317130	110.6	115.5
	Sum Aroclor-1254			1472091	968212	527.0	530.2
	Average Aroclor-1254					105.401	106.036

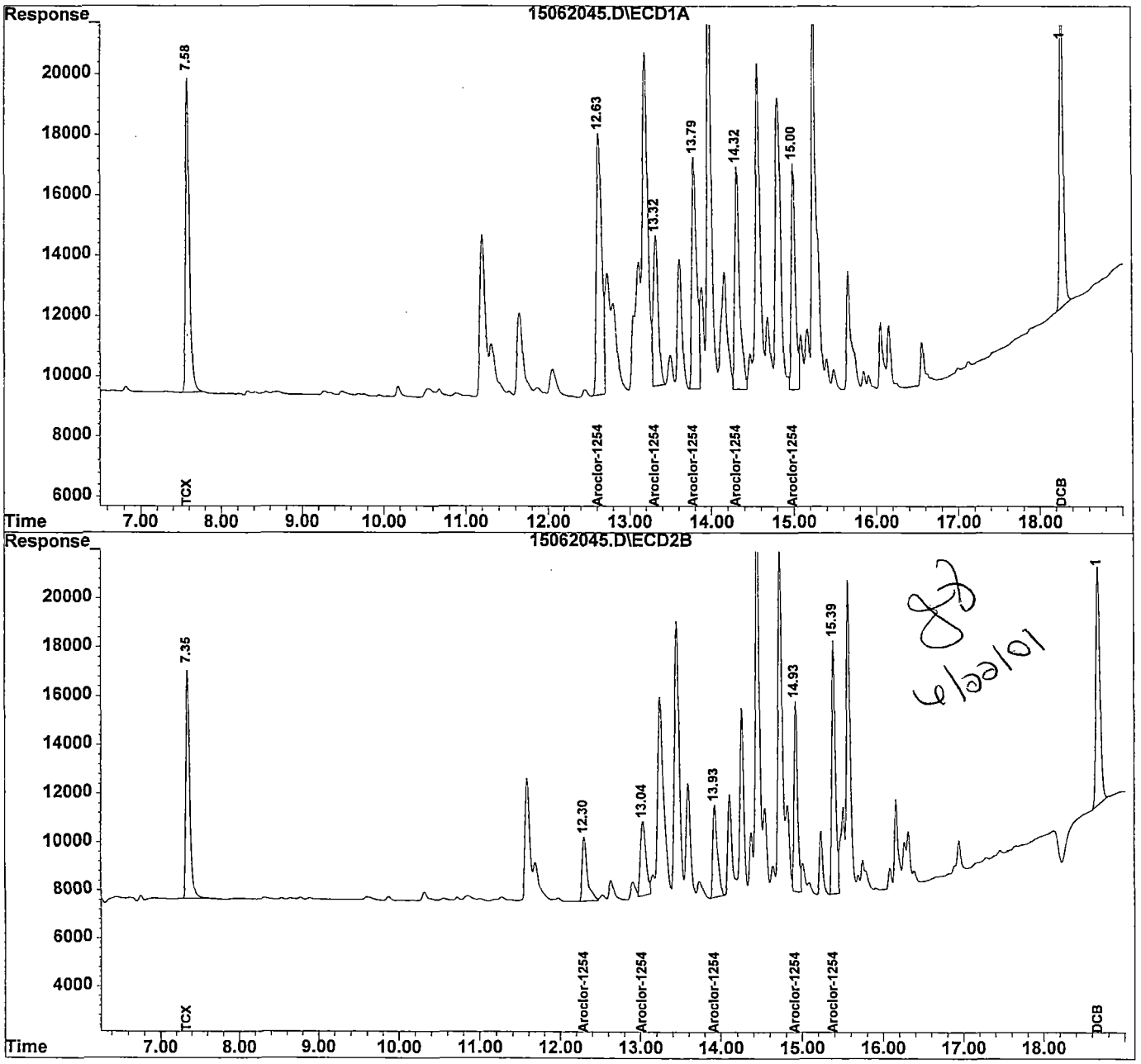
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_20_01\15062045.D\ECD1A.CH Vial: 41
Signal #2 : F:\HPCHEM\HP\15\DATA\06_20_01\15062045.D\ECD2B.CH
Acq On : 21 Jun 2001 2:13 Operator: DDC
Sample : LC0609SC *ELCS1 * Inst : HP_15
Misc : **30.0G/5.0ML* Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 21 8:52 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B



HYDROGEN USED AS CARRIER GAS FOR SAMPLE ANALYSES

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ELCS2

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30W6

Matrix: (soil/water) SOIL Lab Sample ID: LD0609SC

Sample wt/vol: 30.0 (g/mL) G Lab File ID:_____

% Moisture: 0 decanted: (Y/N) __ Date Received: 06/09/01

Extraction: (SepF/Cont/Sonc) N Date Extracted:06/09/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/21/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	33	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	130	
11096-82-5	Aroclor-1260	33	U
	Surrogate amount spiked	6.67	

FORM I PCB

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_20_01\15062046.D\ECD1A.CH Vial: 42
Signal #2 : F:\HPCHEM\HP\15\DATA\06_20_01\15062046.D\ECD2B.CH
Acq On : 21 Jun 2001 2:36 Operator: DDC
Sample : LD0609SC *ELCS2 * Inst : HP_15
Misc : **30.0G/5.0ML* Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 21 8:52 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg
	System Monitoring Compounds:						
1)	S TCX	7.58	7.35	458393	425243	6.092	6.117
	Spiked Amount 6.667			Recovery	=	91.38%	91.76%
22)	S DCB	18.28	18.68	489809	461142	6.300	6.487
	Spiked Amount 6.667			Recovery	=	94.50%	97.31%
	Target Compounds:						
12)	L6 Aroclor-1254	12.63	12.30	479829	149627	137.8	137.9
[illegible]	L6 Aroclor-1254 {2}	13.32	13.04	271724	185775	122.1	130.3
[illegible]	L6 Aroclor-1254 {3}	13.79	13.93	411117	186225	132.8	119.7
15)	L6 Aroclor-1254 {4}	14.32	14.93	355878	300085	128.2	135.2
16)	L6 Aroclor-1254 {5}	15.00	15.40	343661	407844	147.2	148.6
	Sum Aroclor-1254			1862208	1229556	668.1	671.7
	Average Aroclor-1254					133.630	134.347

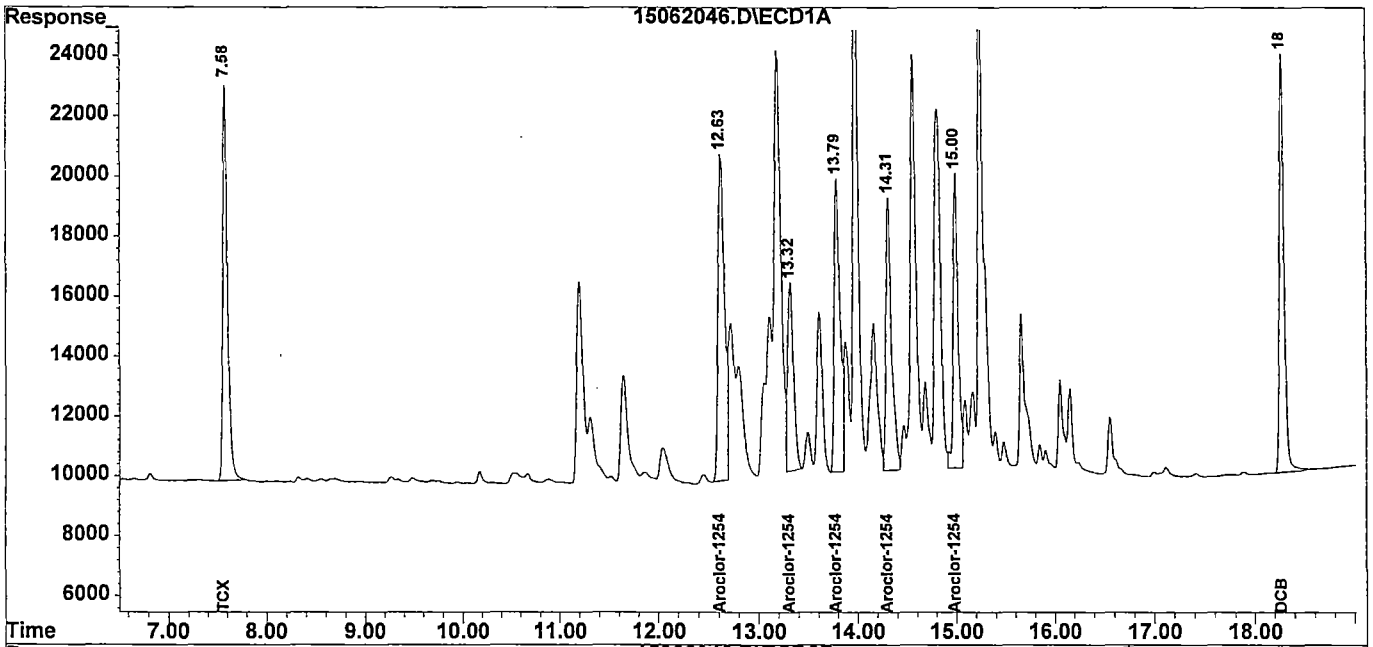
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

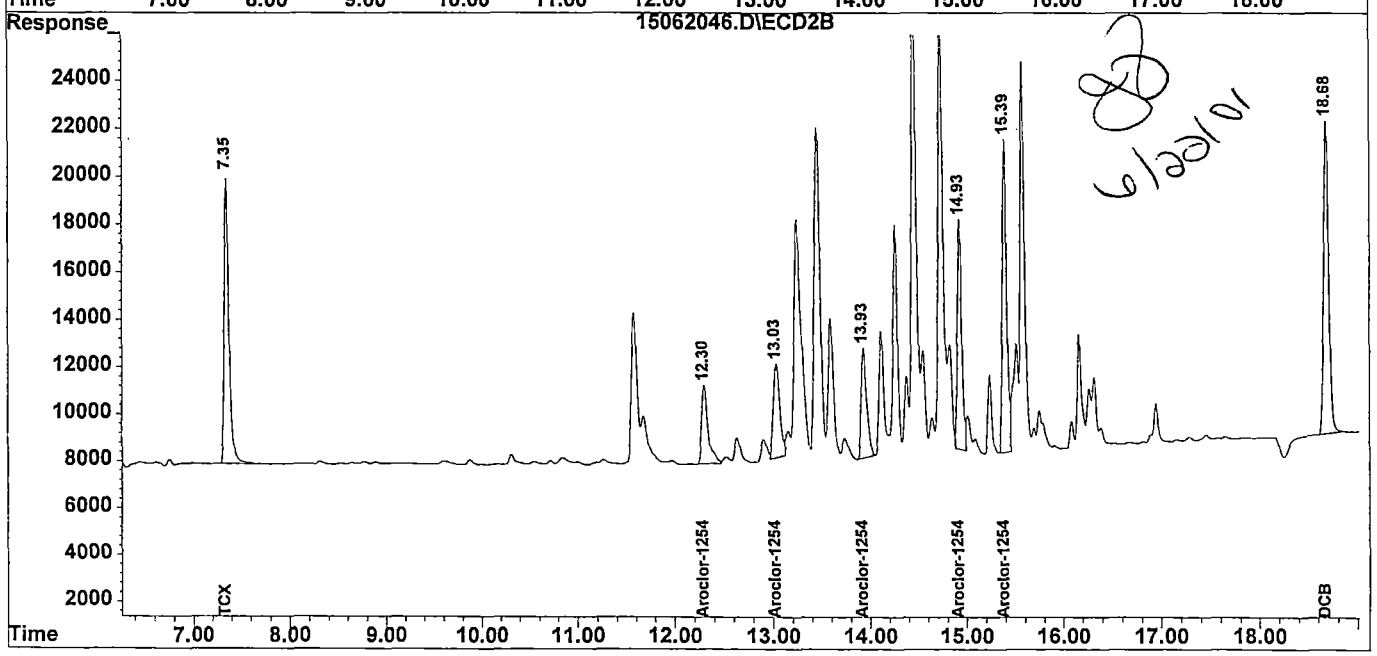
Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_20_01\15062046.D\ECD1A.CH Vial: 42
Signal #2 : F:\HPCHEM\HP\15\DATA\06_20_01\15062046.D\ECD2B.CH
Acq On : 21 Jun 2001 2:36 Operator: DDC
Sample : LD0609SC *ELCS2 * Inst : HP_15
Misc : **30.0G/5.0ML* Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 21 8:52 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/20/01

HYDROGEN USED AS CARRIER GAS FOR SAMPLE ANALYSES

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E30W6MS

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30W6

Matrix: (soil/water) SOIL Lab Sample ID: 46732.40MS

Sample wt/vol: 30.7 (g/mL) G Lab File ID:_____

% Moisture: 18 decanted: (Y/N) __ Date Received: 06/09/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:06/09/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/21/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	39	U
11104-28-2	Aroclor-1221	39	U
11141-16-5	Aroclor-1232	39	U
53469-21-9	Aroclor-1242	22	J
12672-29-6	Aroclor-1248	39	U
11097-69-1	Aroclor-1254	150	
11096-82-5	Aroclor-1260	39	U
	Surrogate amount spiked	7.94	

Quantitation Report

Data File : F:\HPCHEM\HP\15\DATA\06_20_01\15062053.D\ECD1A.CH Vial: 49
Acq On : 21 Jun 2001 5:18 Operator: DDC
Sample : 46732.40MS *E30W6MS * Inst : HP_15
Misc : *EPA*30.7G/5.0ML*18 Dilution: 1.00
IntFile : events.e

Data File : F:\HPCHEM\HP\15\DATA\06_20_01\15062053.D\ECD2B.CH Vial: 49
Acq On : 21 Jun 2001 5:18 Operator: DDC
Sample : 46732.40MS Inst : HP_15
Misc : Dilution: 1.00
IntFile : events2.e
Quant Time: Jun 21 9:22 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	7.58	7.35	411109	375864	6.511	6.443	
	Spiked Amount 7.945			Recovery	=	81.95%	81.10%	
22)	S DCB	18.28	18.68	475747	421320	7.293	7.063	
	Spiked Amount 7.945			Recovery	=	91.80%	88.90%	
	Target Compounds:							
7)	L4 Aroclor-1242	8.41	10.39	13120	13818	8.957	19.5	#
8)	L4 Aroclor-1242 {2}	9.69	11.17	11349	26980	11.5	22.4	#
9)	L4 Aroclor-1242 {3}	10.57f	0.00	121364	0	47.5	N.D. d	#
11)	L4 Aroclor-1242 {5}	0.00	13.15	0	24644	N.D. d	22.8	#
	Sum Aroclor-1242			145833	65443	68.0	64.7	
	Average Aroclor-1242					22.658	21.555	
12)	L6 Aroclor-1254	12.63	12.30	459464	147586	157.3	162.1	
13)	L6 Aroclor-1254 {2}	13.32	13.02	265200	161750	142.0	135.2	
14)	L6 Aroclor-1254 {3}	13.79	13.93	479345	163620	184.6	125.4	#
15)	L6 Aroclor-1254 {4}	14.31	14.92	329315	262766	141.4	141.0	
16)	L6 Aroclor-1254 {5}	15.00	15.39	325643	384677	166.2	167.0	
	Sum Aroclor-1254			1858968	1120398	791.4	730.8	
	Average Aroclor-1254					158.289	146.155	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

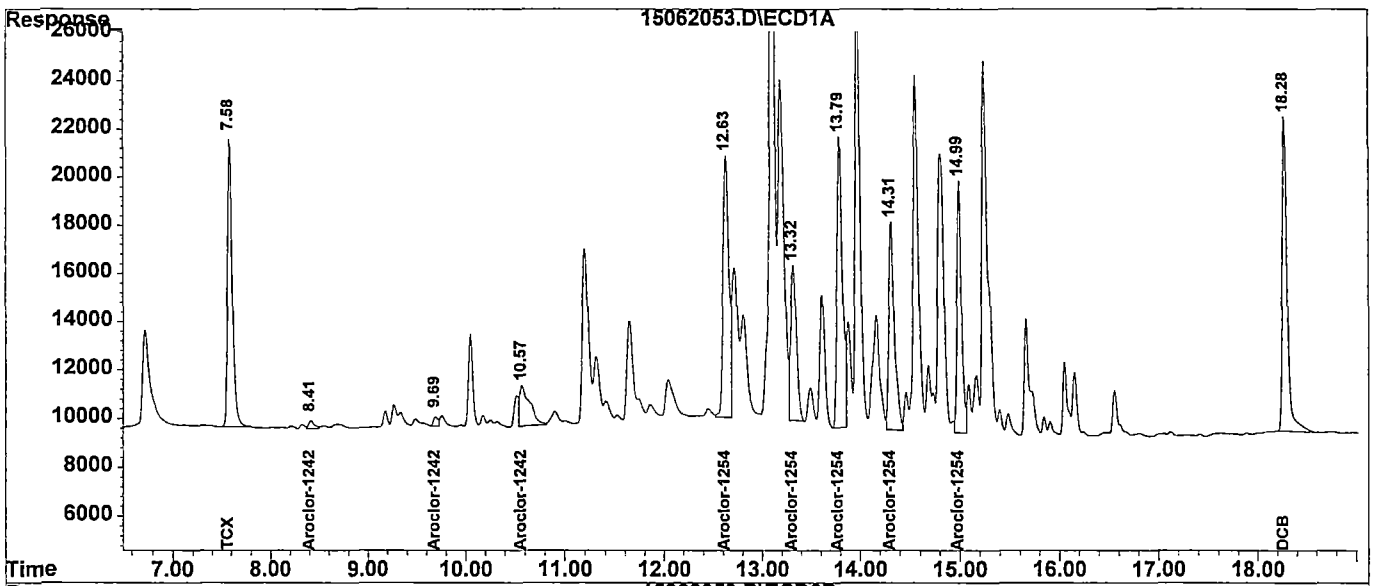
Chromatographic Report

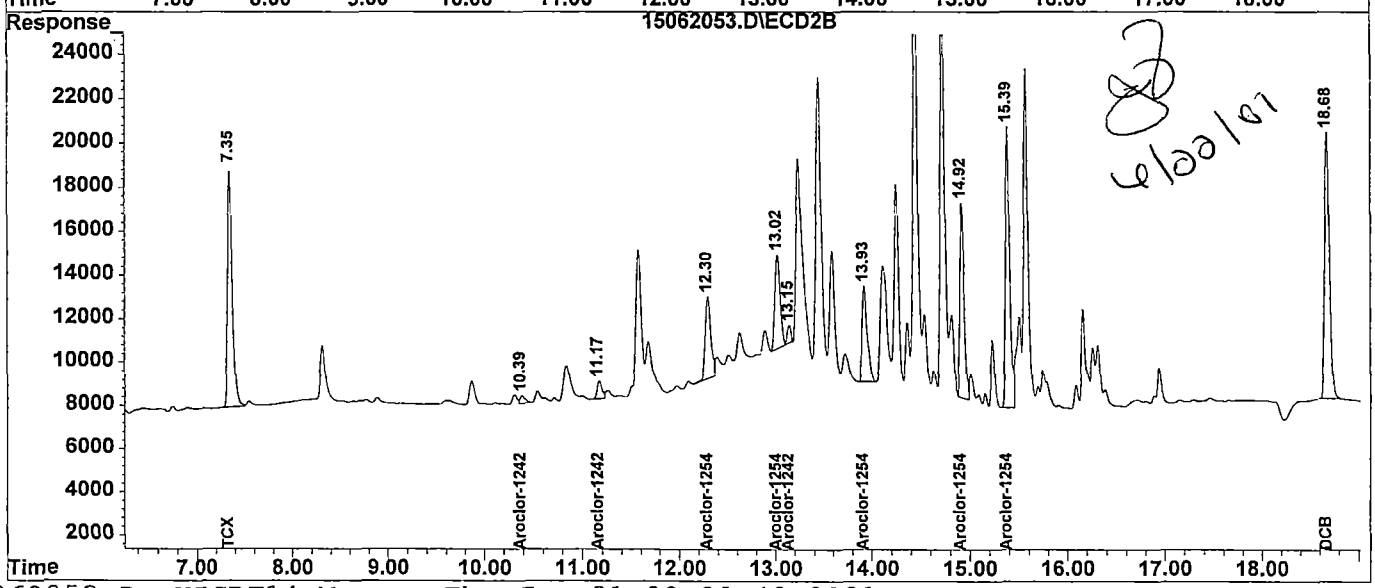
Data File : F:\HPCHEM\HP\15\DATA\06_20_01\15062053.D\ECD1A.CH Vial: 49
Acq On : 21 Jun 2001 5:18 Operator: DDC
Sample : 46732.40MS *E30W6MS * Inst : HP_15
Misc : *EPA*30.7G/5.0ML*18 Dilution: 1.00
IntFile : events.e

Data File : F:\HPCHEM\HP\15\DATA\06_20_01\15062053.D\ECD2B.CH Vial: 49
Acq On : 21 Jun 2001 5:18 Operator: DDC
Sample : 46732.40MS Inst : HP_15
Misc : Dilution: 1.00
IntFile : events2.e
Quant Time: Jun 21 9:22 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/20/01

HYDROGEN USED AS CARRIER GAS FOR SAMPLE ANALYSES

1D
AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E30W6MSD

Lab Name: SWL-TULSA

Lab Code: SWOK Case No.: 29294 SDG No.: E30W6

Matrix: (soil/water) SOIL Lab Sample ID: 46732.41MSD

Sample wt/vol: 30.2 (g/mL) G Lab File ID:_____

% Moisture: 18 decanted: (Y/N) __ Date Received: 06/09/01

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:06/09/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/21/01

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	40	U
11104-28-2	Aroclor-1221	40	U
11141-16-5	Aroclor-1232	40	U
53469-21-9	Aroclor-1242	22	J
12672-29-6	Aroclor-1248	40	U
11097-69-1	Aroclor-1254	130	
11096-82-5	Aroclor-1260	40	U
	Surrogate amount spiked	8.08	

FORM I PCB

Quantitation Report

Data File : F:\HPCHEM\HP\15\DATA\06_20_01\15062054.D\ECD1A.CH Vial: 50
Acq On : 21 Jun 2001 5:41 Operator: DDC
Sample : 46732.41MSD *E30W6MSD * Inst : HP_15
Misc : *EPA*30.2G/5.0ML*18 Dilution: 1.00
IntFile : events.e

Data File : F:\HPCHEM\HP\15\DATA\06_20_01\15062054.D\ECD2B.CH Vial: 50
Acq On : 21 Jun 2001 5:41 Operator: DDC
Sample : 46732.41MSD Inst : HP_15
Misc : Dilution: 1.00
IntFile : events2.e
Quant Time: Jun 21 9:23 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/Kg	ug/Kg	
	System Monitoring Compounds:							
1)	S TCX	7.58	7.35	388986	356507	6.263	6.212	
	Spiked Amount 8.076			Recovery	=	77.55%	76.92%	
	S DCB	18.28	18.68	403159	390884	6.282	6.662	
	Spiked Amount 8.076			Recovery	=	77.78%	82.49%	
	Target Compounds:							
7)	L4 Aroclor-1242	8.42	10.39	14435	13013	10.0	18.6	#
8)	L4 Aroclor-1242 {2}	9.69	11.17	14000	32687	14.4	27.6	#
9)	L4 Aroclor-1242 {3}	10.57f	12.40	107718	13464	42.9	20.2	#
11)	L4 Aroclor-1242 {5}	0.00	13.15	0	26033	N.D. d	24.5	#
	Sum Aroclor-1242			136154	85198	67.3	90.9	
	Average Aroclor-1242					22.439	22.721	
12)	L6 Aroclor-1254	0.00	12.30	0	111395	N.D. d	124.4	#
13)	L6 Aroclor-1254 {2}	13.32	13.03	229758	136428	125.0	115.9	
14)	L6 Aroclor-1254 {3}	13.79	13.93	426732	151888	167.0	118.3	#
15)	L6 Aroclor-1254 {4}	14.31	14.92	285529	228432	124.6	124.6	
16)	L6 Aroclor-1254 {5}	15.00	15.39	291987	354909	151.5	156.7	
	Sum Aroclor-1254			1234005	983053	568.2	639.9	
	Average Aroclor-1254					142.058	127.985	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

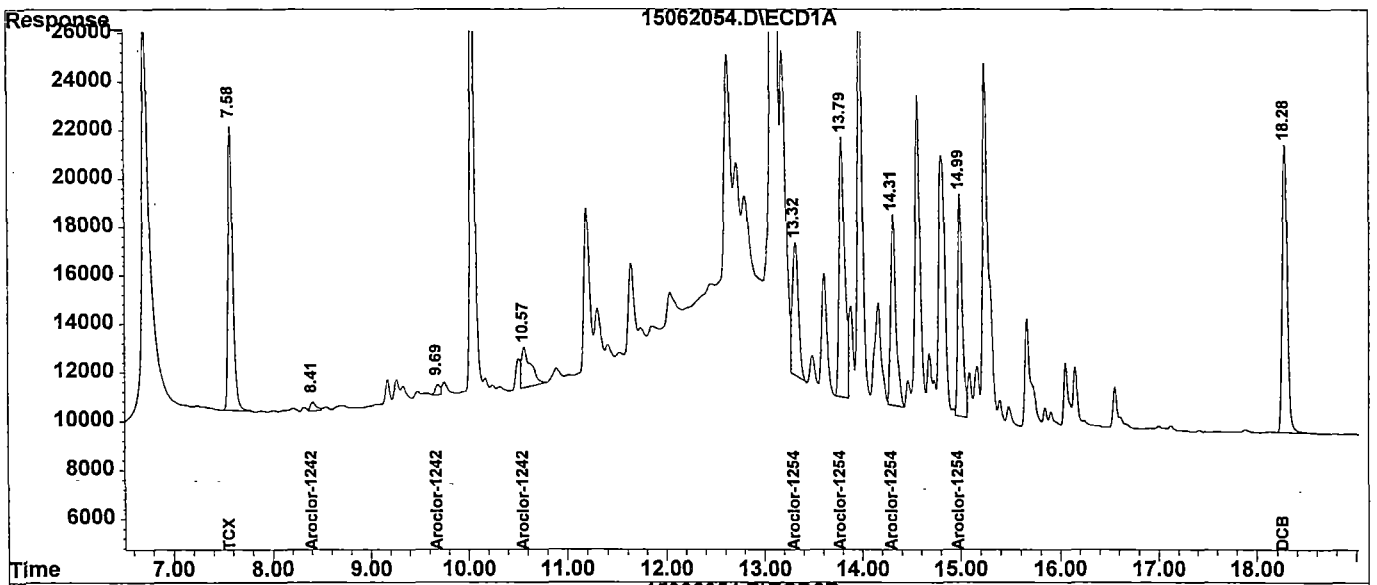
Chromatographic Report

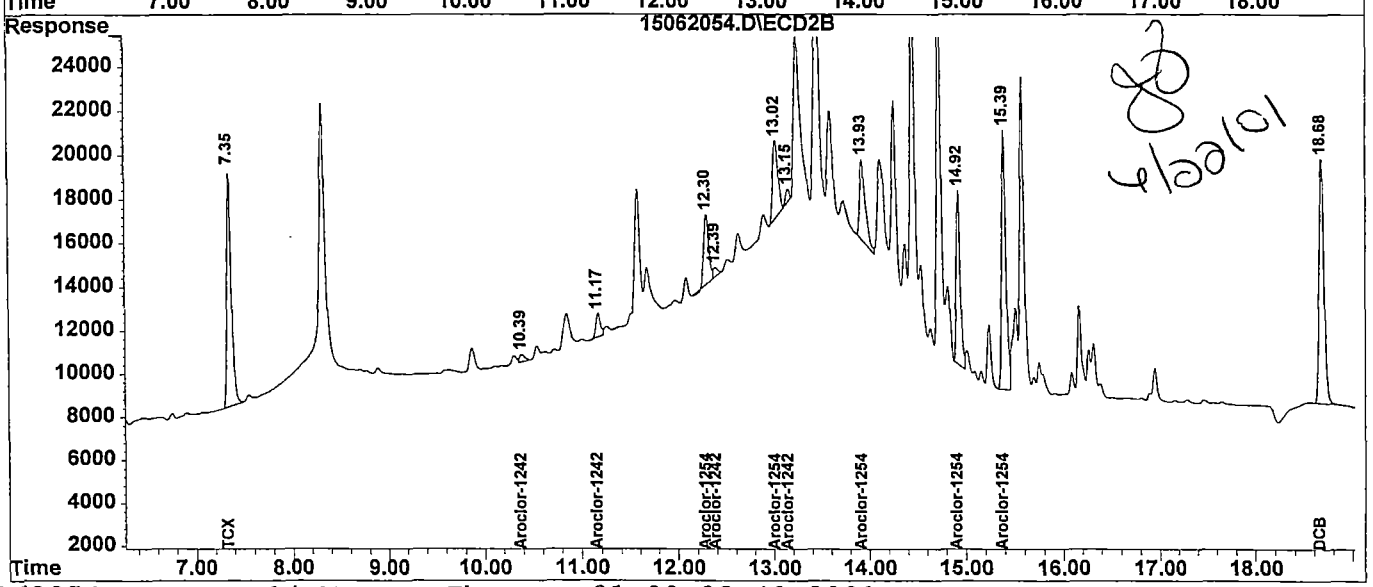
Data File : F:\HPCHEM\HP\15\DATA\06_20_01\15062054.D\ECD1A.CH Vial: 50
Acq On : 21 Jun 2001 5:41 Operator: DDC
Sample : 46732.41MSD *E30W6MSD * Inst : HP_15
Misc : *EPA*30.2G/5.0ML*18 Dilution: 1.00
IntFile : events.e

Data File : F:\HPCHEM\HP\15\DATA\06_20_01\15062054.D\ECD2B.CH Vial: 50
Acq On : 21 Jun 2001 5:41 Operator: DDC
Sample : 46732.41MSD Inst : HP_15
Misc : Dilution: 1.00
IntFile : events2.e
Quant Time: Jun 21 9:23 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B





6/22/01

Gel Permeation Chromatography (GPC) Run Log - GPC1

SWOK/AATS SWL-OE-102-16 Rev.#: 2.1 Fraction Collected: 45 mLs

Col. ID.: 364134 Protocol: GC699 Fraction: PEST Cycle: 15-9

Cal. Std. Page: Client: EPA Case# 29294

DATE/TIME	POS.	SAMPLE ID	FILE	COMMENT
06/12/01 17:19	1	CAL.STD (INITIAL)	2_061201	
06/12/01 17:50	2	SB	2_061202	
06/12/01 18:21	3	SB	2_061203	
06/12/01 18:52	4	SB	2_061204	
06/12/01 19:23	5	SB#061201C	2_061205	
06/12/01 19:54	6	SB#061201D	2_061206	
06/12/01 20:25	7	BL0609SC	2_061207	
06/12/01 20:57	8	BB0609SC	2_061208	
06/12/01 21:28	9	LC0609SC	2_061209	
06/12/01 21:59	10	LD0609SC	2_061210	
06/12/01 22:30	11	46732.39 EPA E30W6	2_061211	
06/12/01 23:01	12	46732.40 EPA E30W6MS	2_061212	
06/12/01 23:32	13	46732.41 EPA E30W6MSD	2_061213	
06/13/01 00:03	14	46732.53 EPA E30Z8	2_061214	
06/13/01 00:34	15	46732.74 EPA E3116	2_061215	
06/13/01 01:05	16	46721.31 EPA E30Q7	2_061216	
06/13/01 01:36	17	46732.50 EPA E30Z5	2_061217	
06/13/01 02:07	18	46732.49 EPA E30Z4	2_061218	
06/13/01 02:39	19	46732.48 EPA E30Z3	2_061219	
06/13/01 03:10	20	46732.77 EPA E3119	2_061220	
06/13/01 03:41	21	46732.46 EPA E30Z1	2_061221	

6/15/2001 6/14/01

Verification Signature/Date Analyst Signature/Date

Book: OE-102-16-RUN-18 Page No.: 96

Gel Permeation Chromatography (GPC) Run Log - GPC1

SWOK/AATS SWL-OE-102-16 Rev.#: 2.1 Fraction Collected: 45 mLs

Col. ID.: 364134 Protocol: GC699 Fraction: PEST Cycle: 15-9

Cal. Std. Page: 44 Client: EPA Case# 29294

DATE/TIME	POS.	SAMPLE ID	FILE	COMMENT
06/13/01 04:12	22	46732.54 EPA E30Z9	2_061222	
06/13/01 04:43	23	46721.39 EPA E30R3	2_061223	
06/13/01 05:14	24	46732.47 EPA E30Z2	2_061224	
06/13/01 05:45	25	46732.42 EPA E30Y7	2_061225	
06/13/01 06:16	26	46732.52 EPA E30Z7	2_061226	
06/13/01 06:47	27	46732.58 EPA E3103	2_061227	
06/13/01 07:18	28	46732.57 EPA E3102	2_061228	
06/13/01 07:50	29	46732.64 EPA E3106	2_061229	
06/13/01 08:21	30	46732.75 EPA E3117	2_061230	
06/13/01 09:23	31	46732.51 EPA E30Z6	2_061231	
06/13/01 16:04	44	SB	2_061244	
06/13/01 16:35	45	SB	2_061245	
06/13/01 17:06	46	SB	2_061246	
06/13/01 17:37	47	SB	2_061247	
06/13/01 18:08	48	CAL. STD (FINAL)	2_061248	

Compound	Initial RT	Final RT	% Difference
Phthalate	14.64	14.43	1.43
Methoxychlor	16.32	16.09	1.41
Perylene	21.45	21.15	1.40

6/14/2001
Verification Signature/Date

6/14/01
Analyst Signature/Date

Book: OE-102-16-RUN-18 Page No.: 97

★ Computer Error — No data for #32-43
Also Final Cal. Std. not passing CR 6/14/01
Applied Cal. Std. from 6/14/01, pg. 44
CR 6/15/01

Gel Permeation Chromatography (GPC) Run Log - GPC1

SWOK/AATS SWL-OE-102-16 Rev.#: 2.1 Fraction Collected: 45 mLs

Col. ID.: 418002 Protocol: GC699 Fraction: PEST Cycle: 15-9

Cal. Std. Page: Client: EPA Case# 29294

DATE/TIME	POS.	SAMPLE ID	FILE	COMMENT
06/13/01 16:04	47	SB	1_061247	
06/13/01 16:34	48	CAL STD (FINAL)	1_061248	

Compound	Initial RT	Final RT	% Difference
Phthalate	14.16	14.25	0.64
Methoxychlor	15.78	15.86	0.51
Perylene	20.50	20.64	0.68

6/14/2001 6/14/01

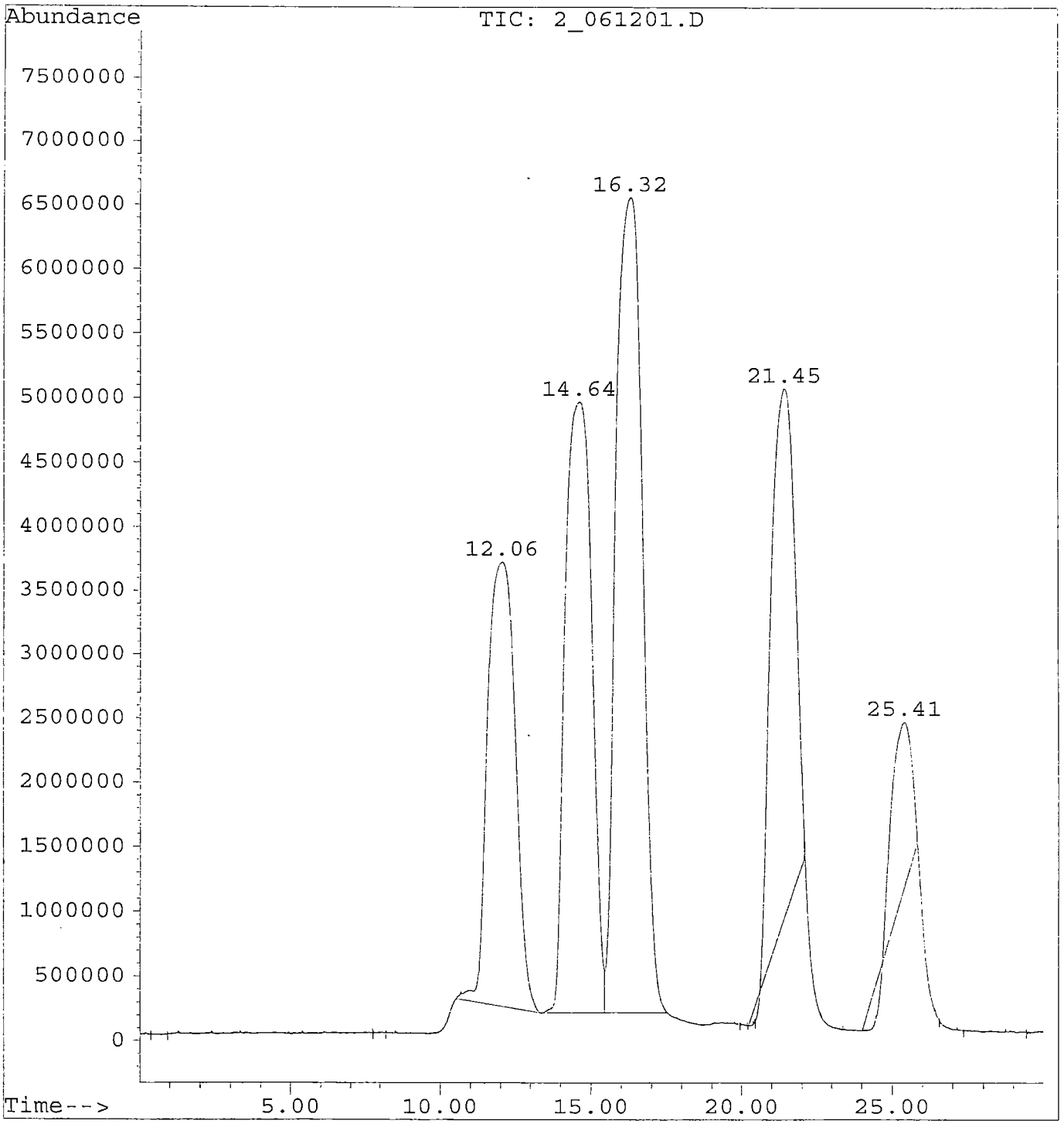
Verification Signature/Date Analyst Signature/Date

Book: OE-102-16-RUN-18 Page No.: 94

Computer Error — No data for #43-46
CR 6/14/01

Data File : C:\HPCHEM\6\DATA\061201\2_061201.D
Acq On : 12 Jun 01 05:19 PM
Sample : CAL.STD (INITIAL)
Misc : COL# 364134

Vial: 1
Operator: CR COL#
Inst : GPC2
Multiplr: 1.00



1) 12.06 = Corn Oil

4) 14.64 = Pthalate
5) 16.32 = Methoxychlor

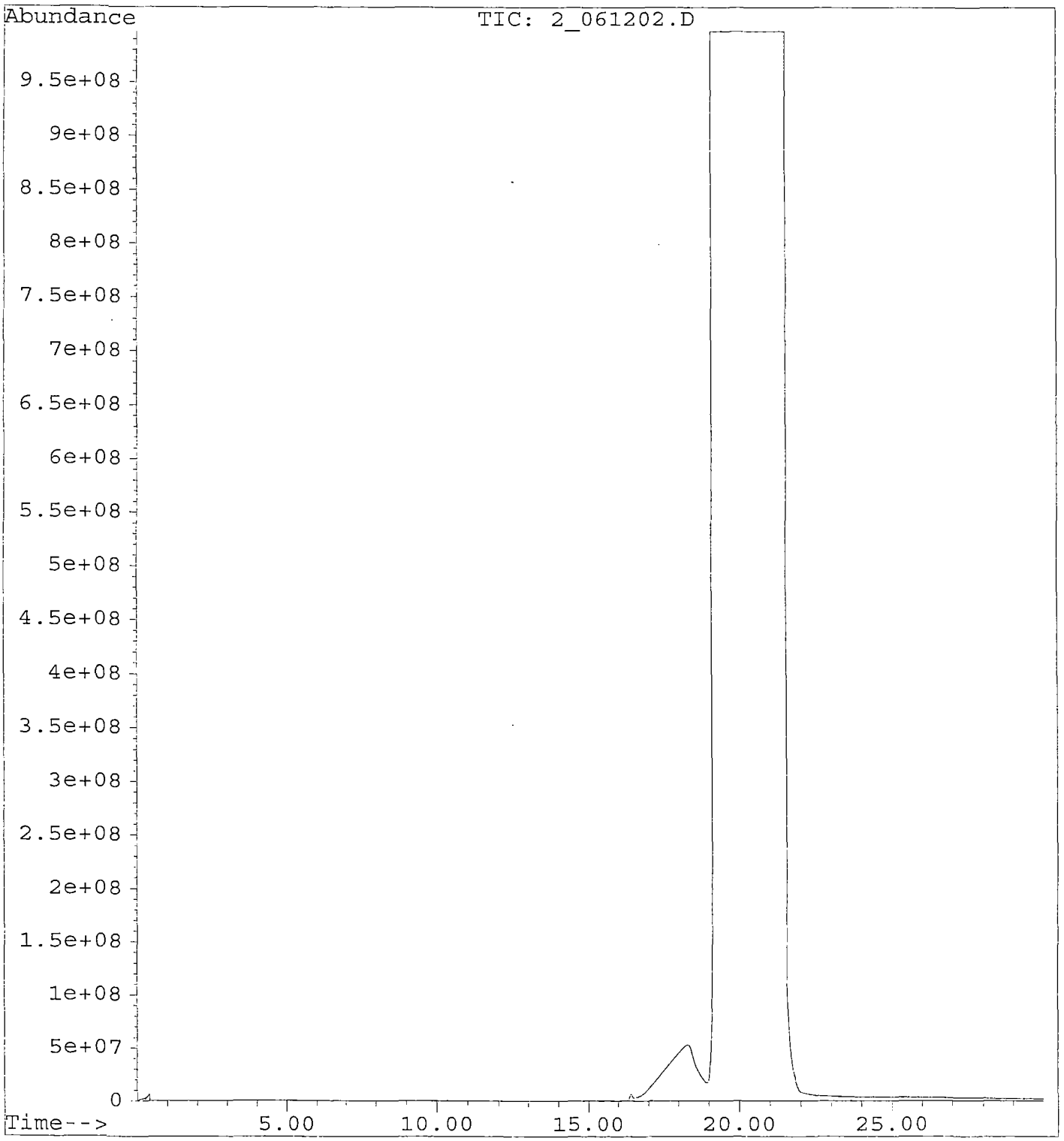
Chromatographic Resolution Report

Data File : C:\HPCHEM\6\DATA\061201\2_061201.D Vial: 1
Acq On : 12 Jun 01 17:19 Operator: CR COL# 36
Sample : CAL.STD (INITIAL) Inst : GPC2
Misc : COL# 364134 Multiplr: 1.00

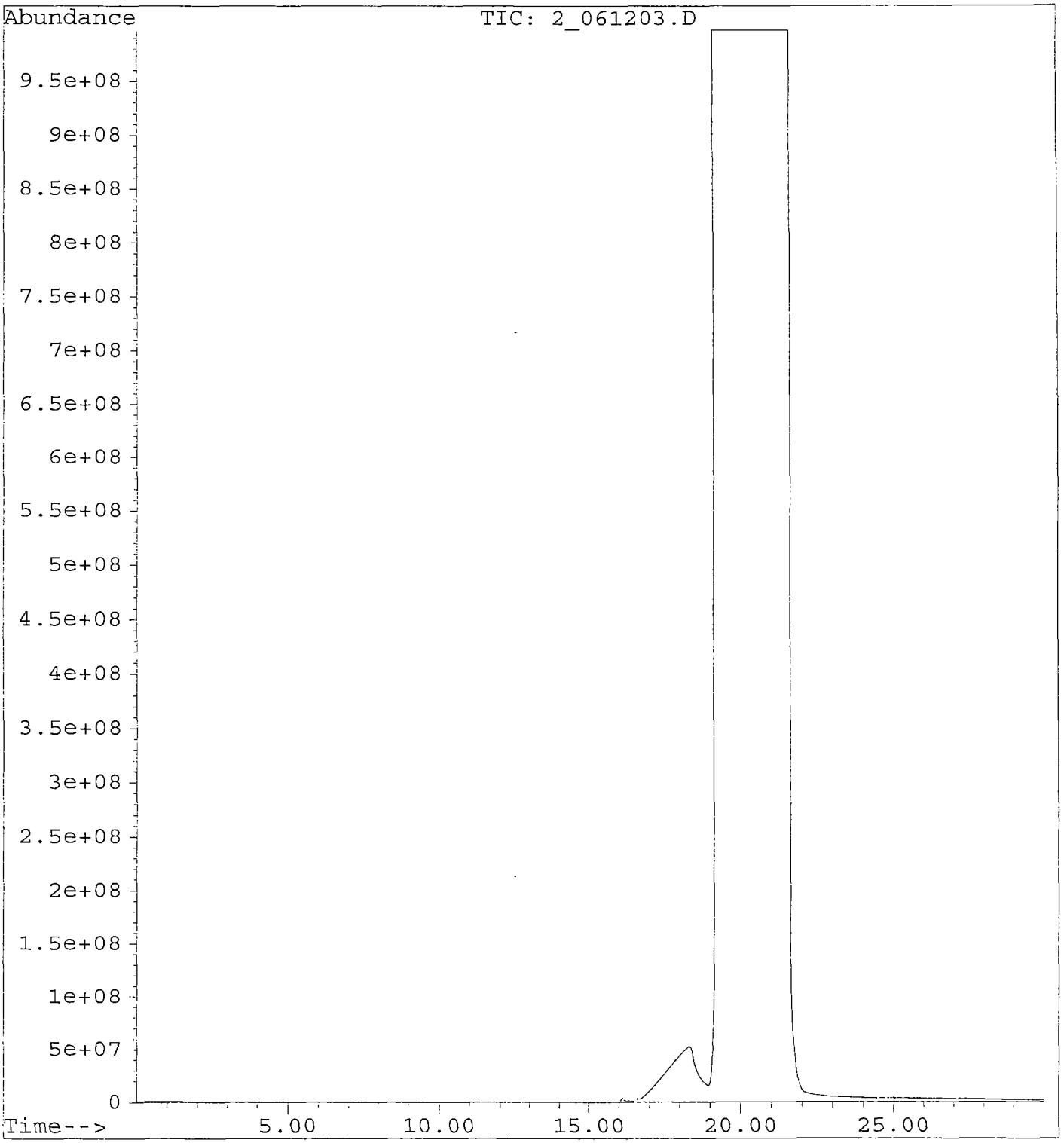
Method : C:\HPCHEM\5\METHODS\GPC.M
Title :

RT#1	RT#2	Resolution
12.055	14.637	100.00
14.637	16.322	93.09
16.322	21.454	100.00
21.454	25.407	100.00

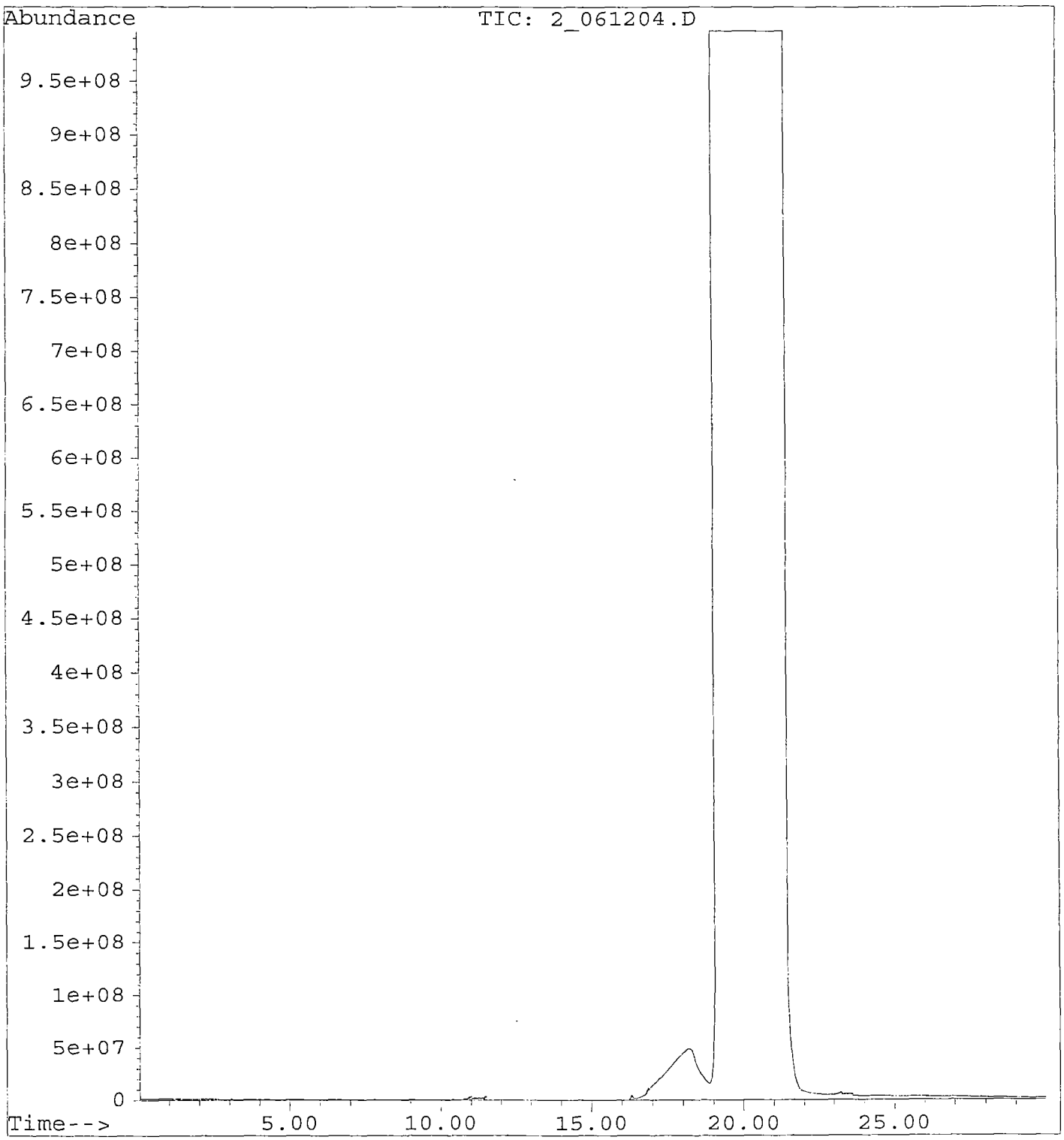
File : C:\HPCHEM\6\DATA\061201\2_061202.D
Operator : CR COL# 364134
Acquired : 12 Jun 01 17:50 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: SB
Misc Info : COL# 364134
Vial Number: 2



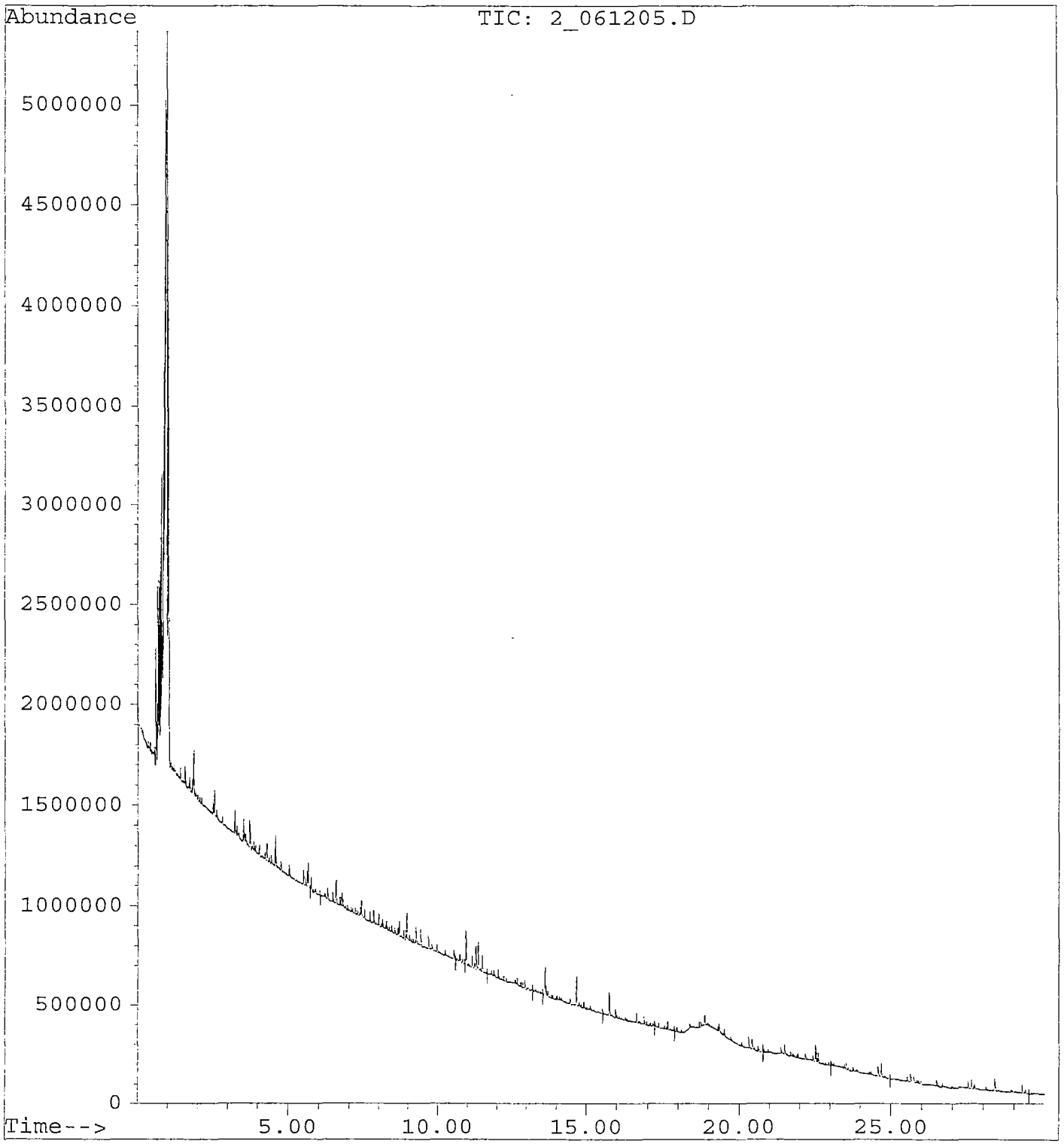
File : C:\HPCHEM\6\DATA\061201\2_061203.D
Operator : CR COL# 364134
Acquired : 12 Jun 01 18:21 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: SB
Misc Info : COL# 364134
Vial Number: 3



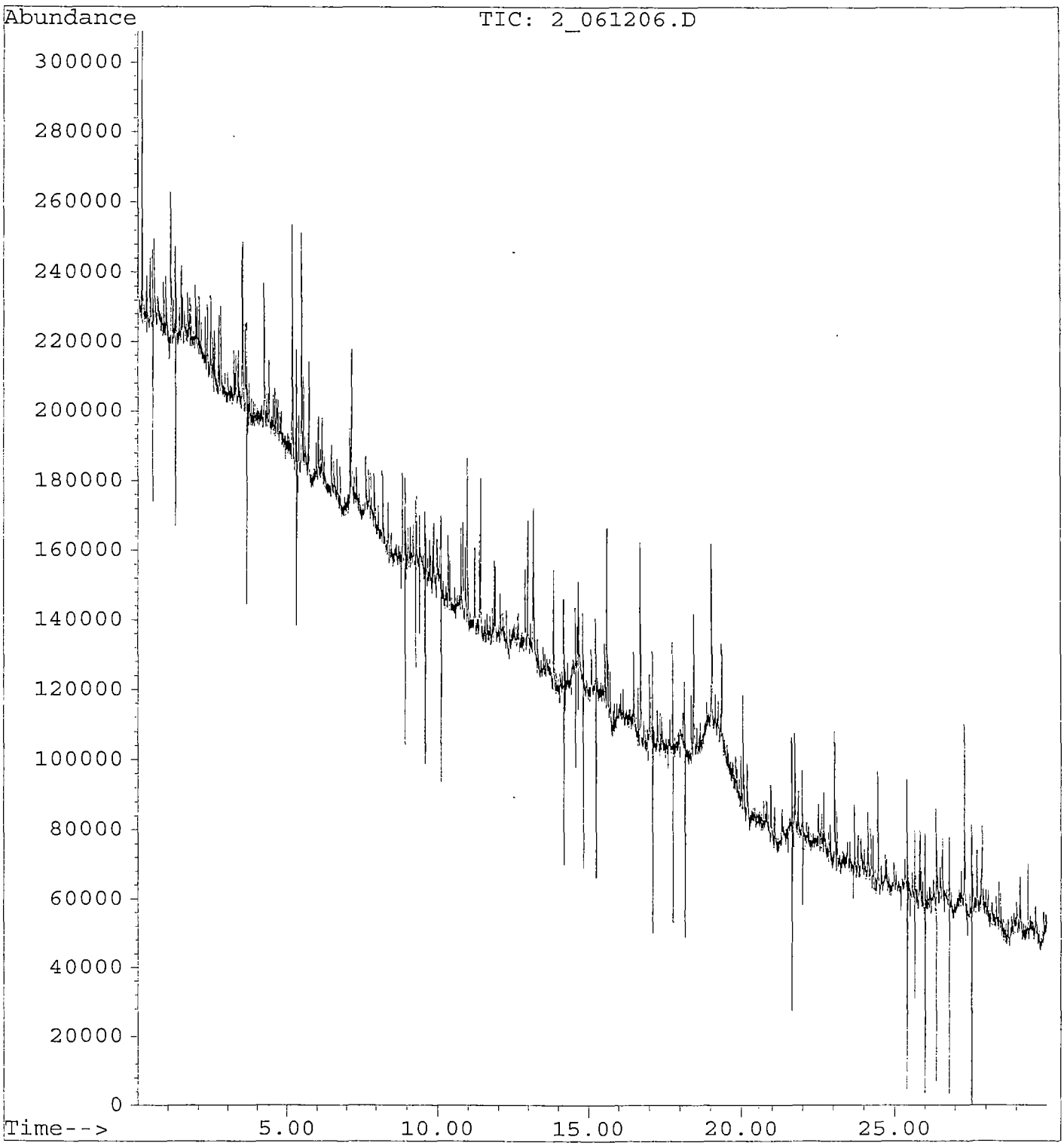
File : C:\HPCHEM\6\DATA\061201\2_061204.D
Operator : CR COL# 364134
Acquired : 12 Jun 01 18:52 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: SB
Misc Info : COL# 364134
Vial Number: 4



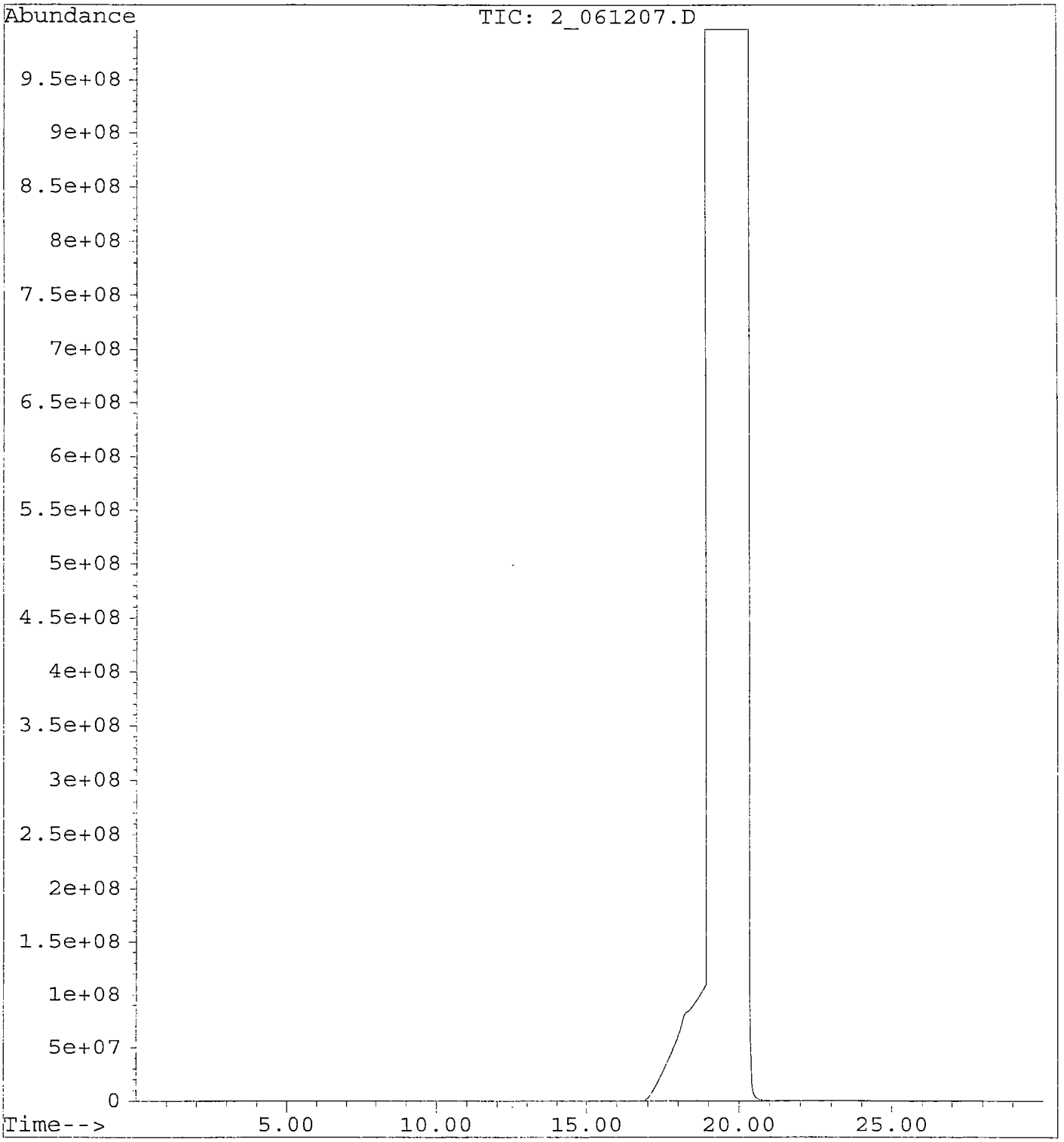
File : C:\HPCHEM\6\DATA\061201\2_061205.D
Operator : CR COL# 364134
Acquired : 12 Jun 01 19:23 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: SB#061201C
Misc Info : COL# 364134
Vial Number: 5



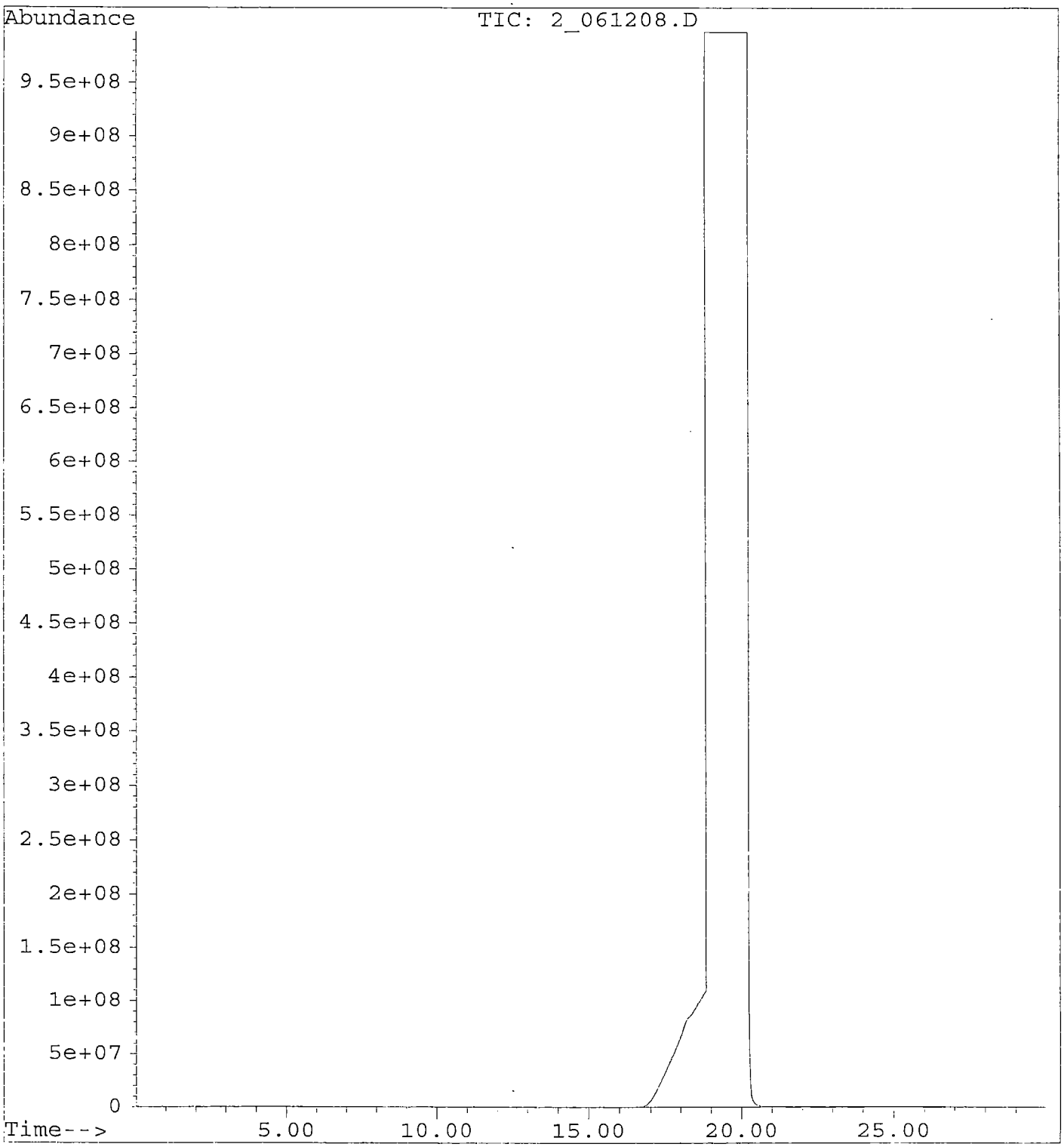
File : C:\HPCHEM\6\DATA\061201\2_061206.D
Operator : CR COL# 364134
Acquired : 12 Jun 01 19:54 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: SB#061201D
Misc Info : COL# 364134
Vial Number: 6



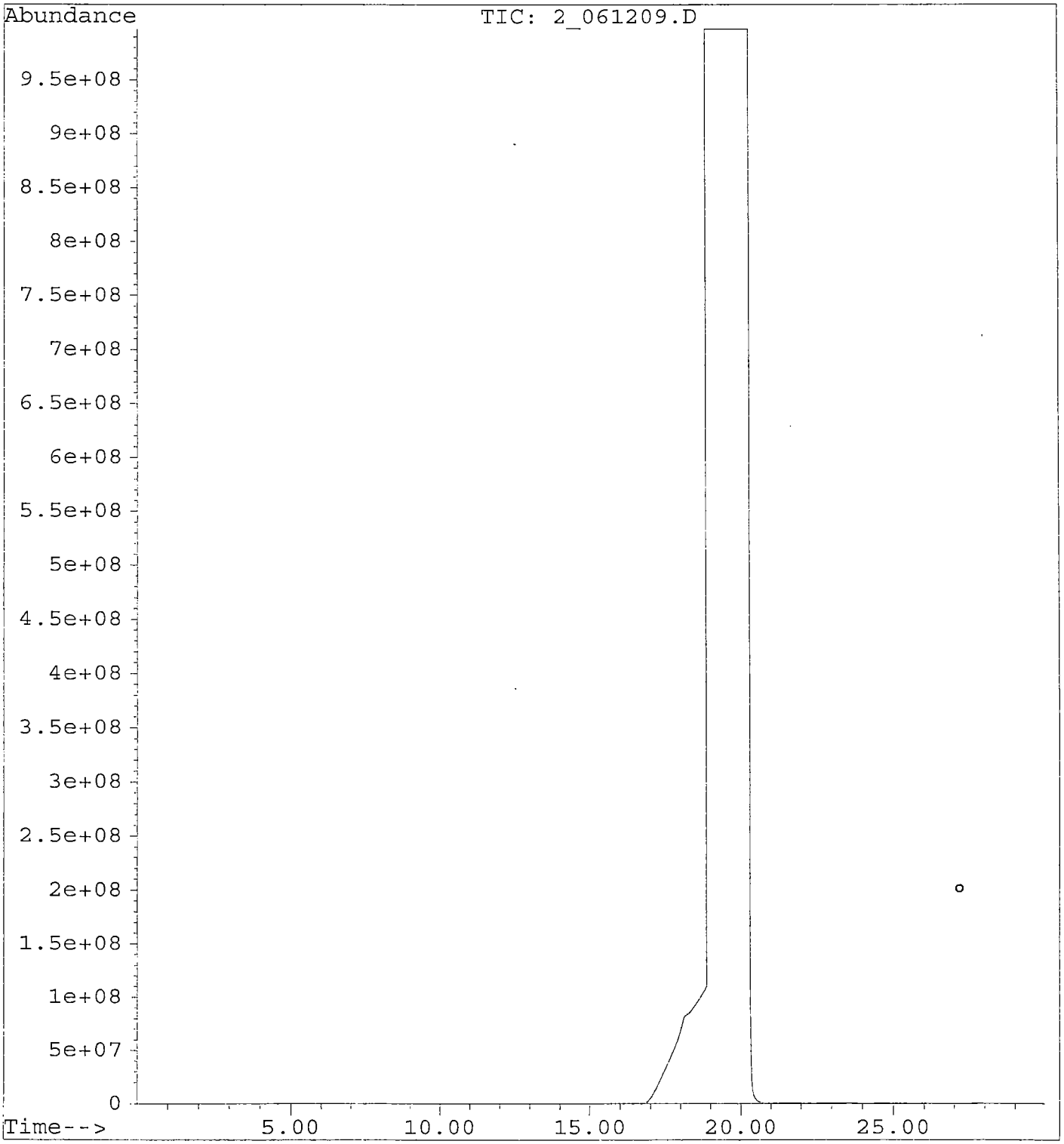
File : C:\HPCHEM\6\DATA\061201\2_061207.D
Operator : CR COL# 364134
Acquired : 12 Jun 01 20:25 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: BL0609SC
Misc Info : COL# 364134
Vial Number: 7



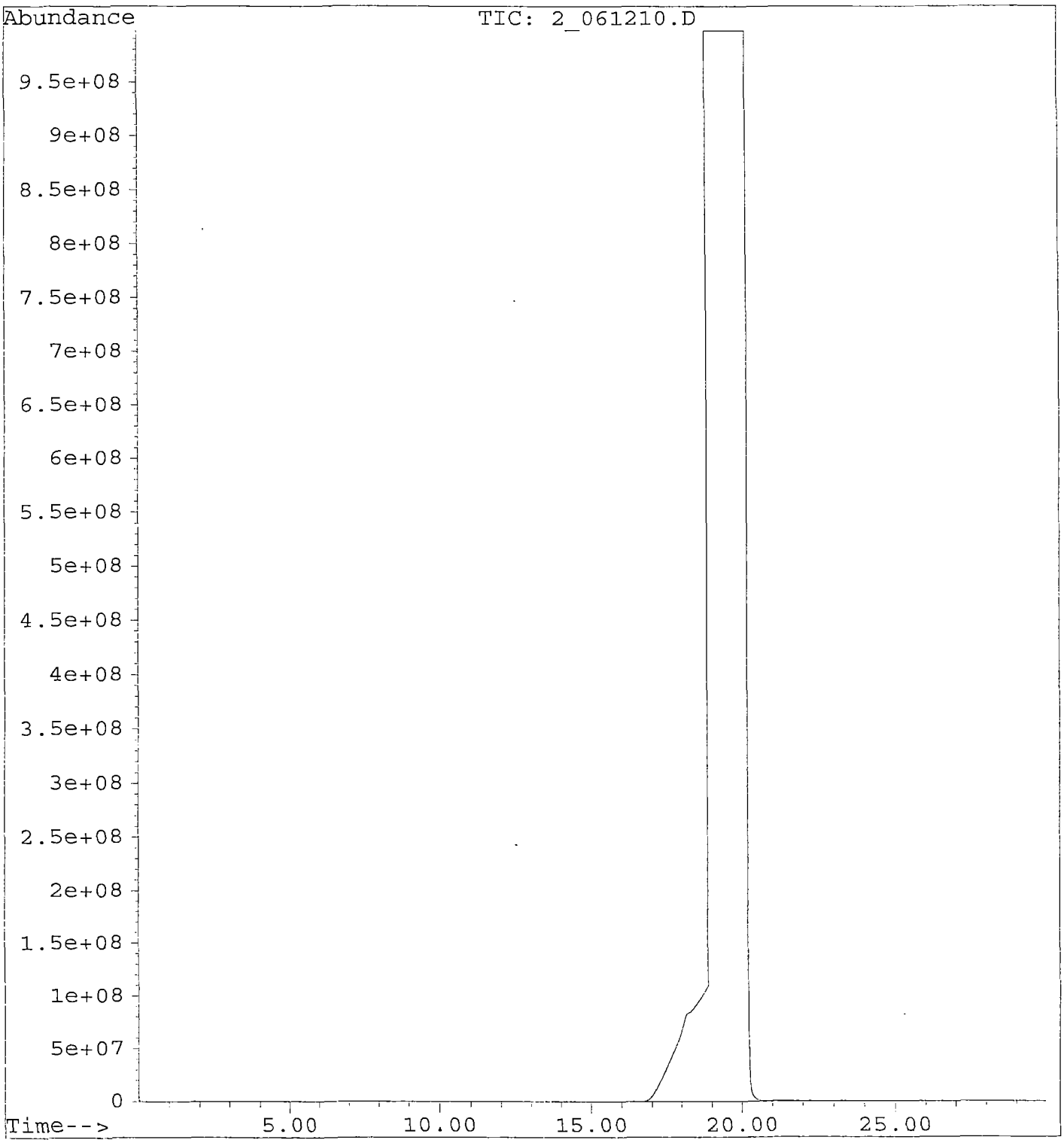
File : C:\HPCHEM\6\DATA\061201\2_061208.D
Operator : CR COL# 364134
Acquired : 12 Jun 01 20:57 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: BB0609SC
Misc Info : COL# 364134
Vial Number: 8



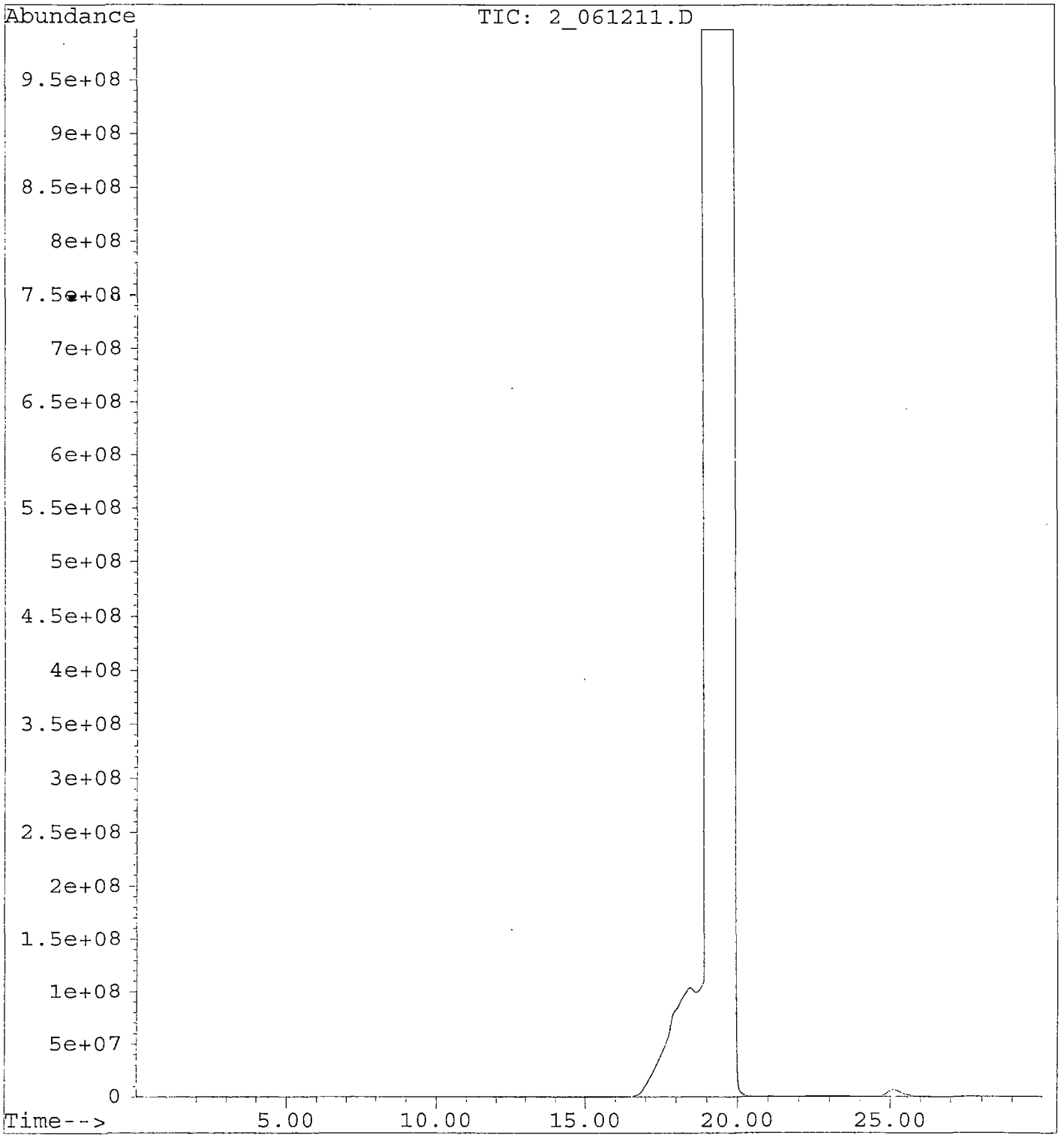
File : C:\HPCHEM\6\DATA\061201\2_061209.D
Operator : CR COL# 364134
Acquired : 12 Jun 01 21:28 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: LC0609SC
Misc Info : COL# 364134
Vial Number: 9



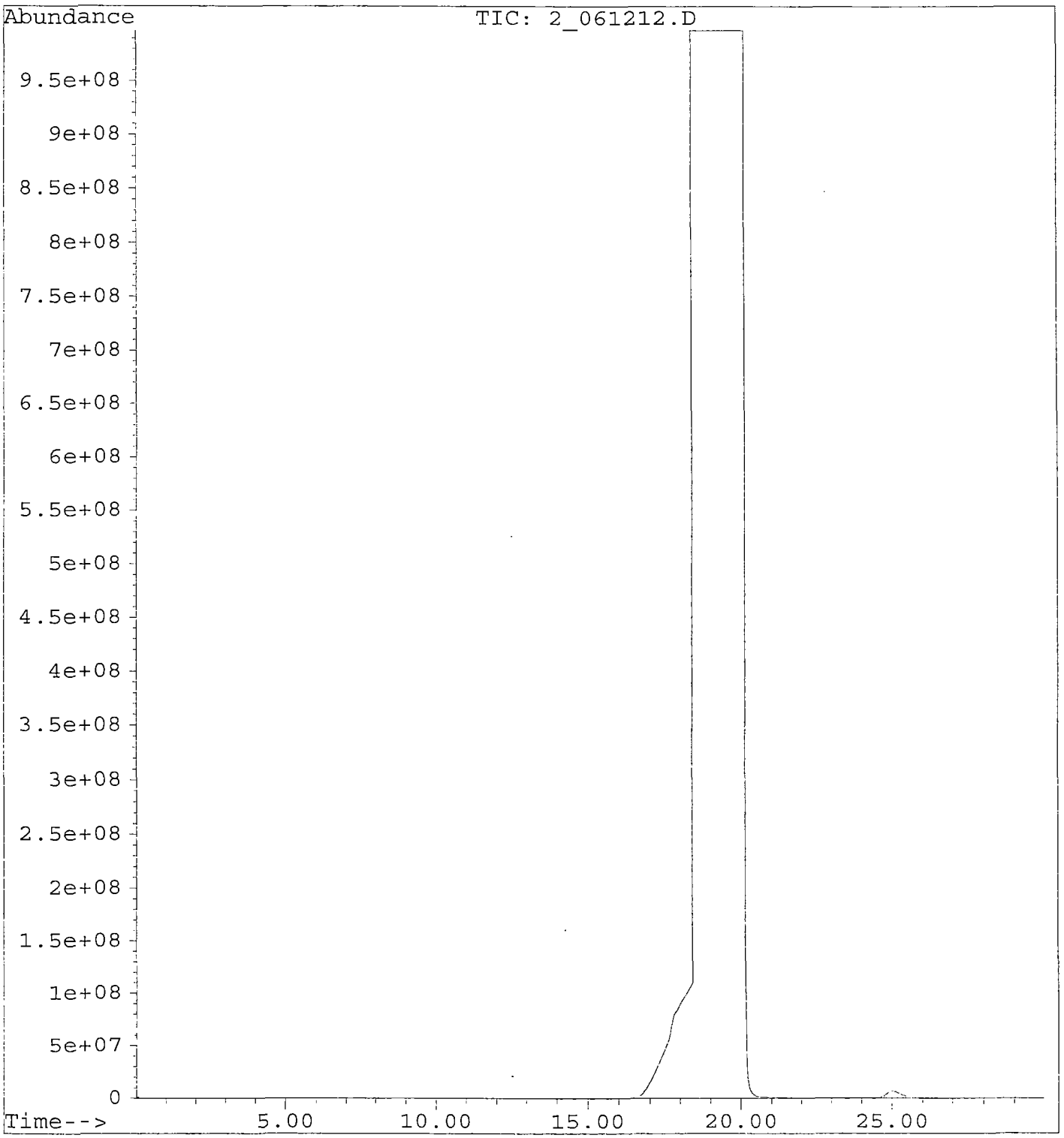
File : C:\HPCHEM\6\DATA\061201\2_061210.D
Operator : CR COL# 364134
Acquired : 12 Jun 01 21:59 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: LD0609SC
Misc Info : COL# 364134
Vial Number: 10



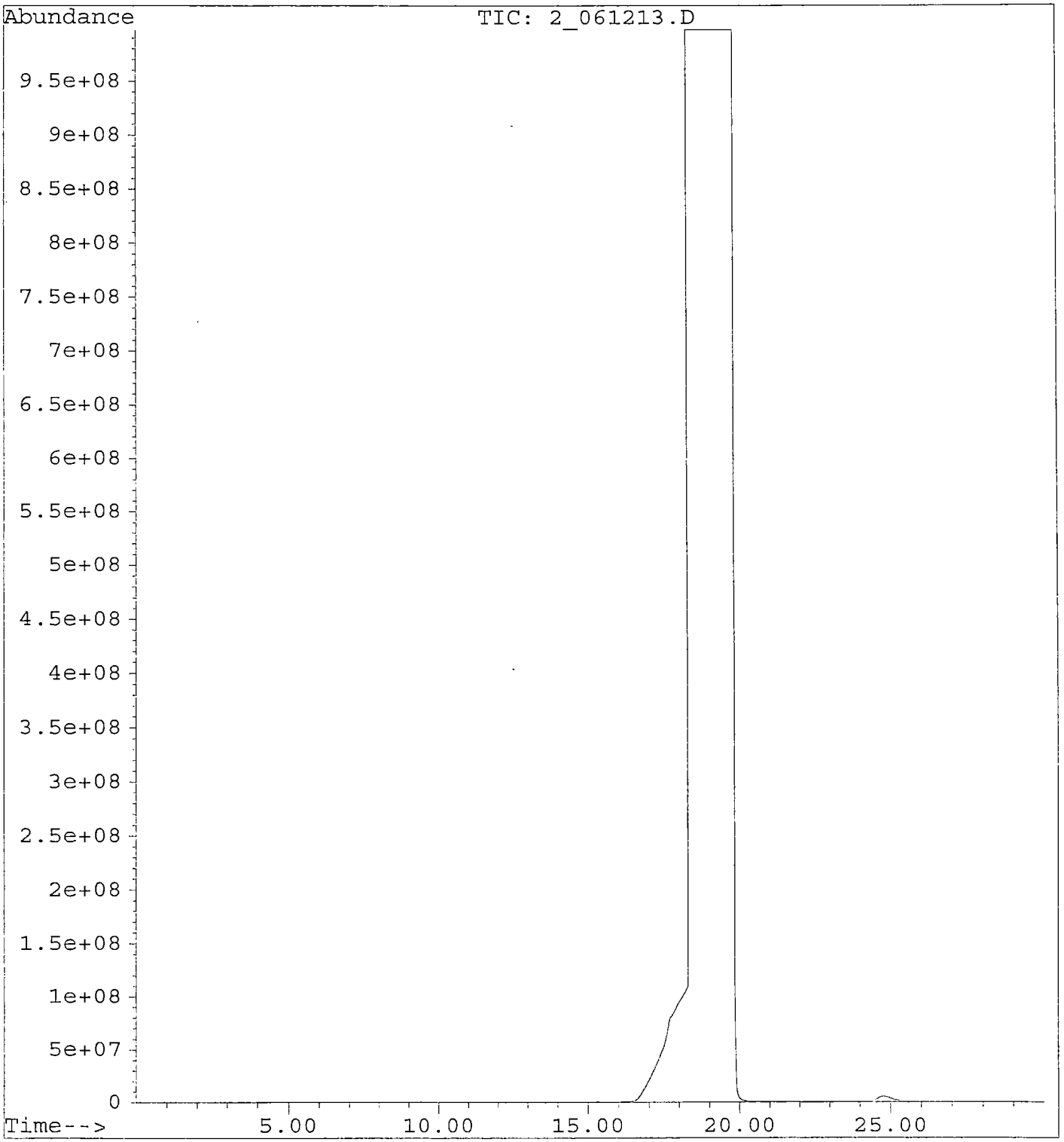
File : C:\HPCHEM\6\DATA\061201\2_061211.D
Operator : CR COL# 364134
Acquired : 12 Jun 01 22:30 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 46732.39 EPA E30W6
Misc Info : COL# 364134
Vial Number: 11



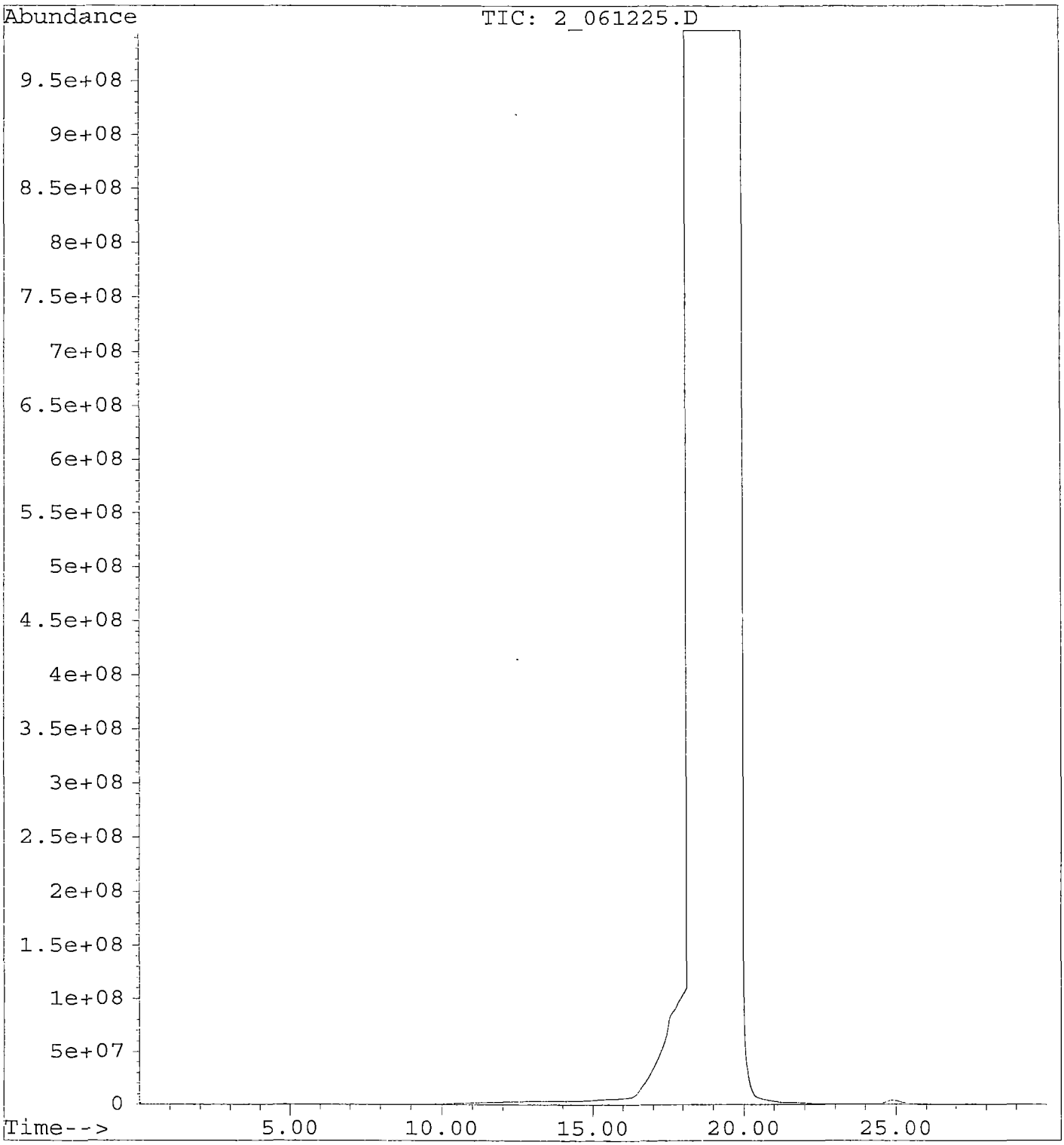
File : C:\HPCHEM\6\DATA\061201\2_061212.D
Operator : CR COL# 364134
Acquired : 12 Jun 01 23:01 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 46732.40 EPA E30W6MS
Misc Info : COL# 364134
Vial Number: 12



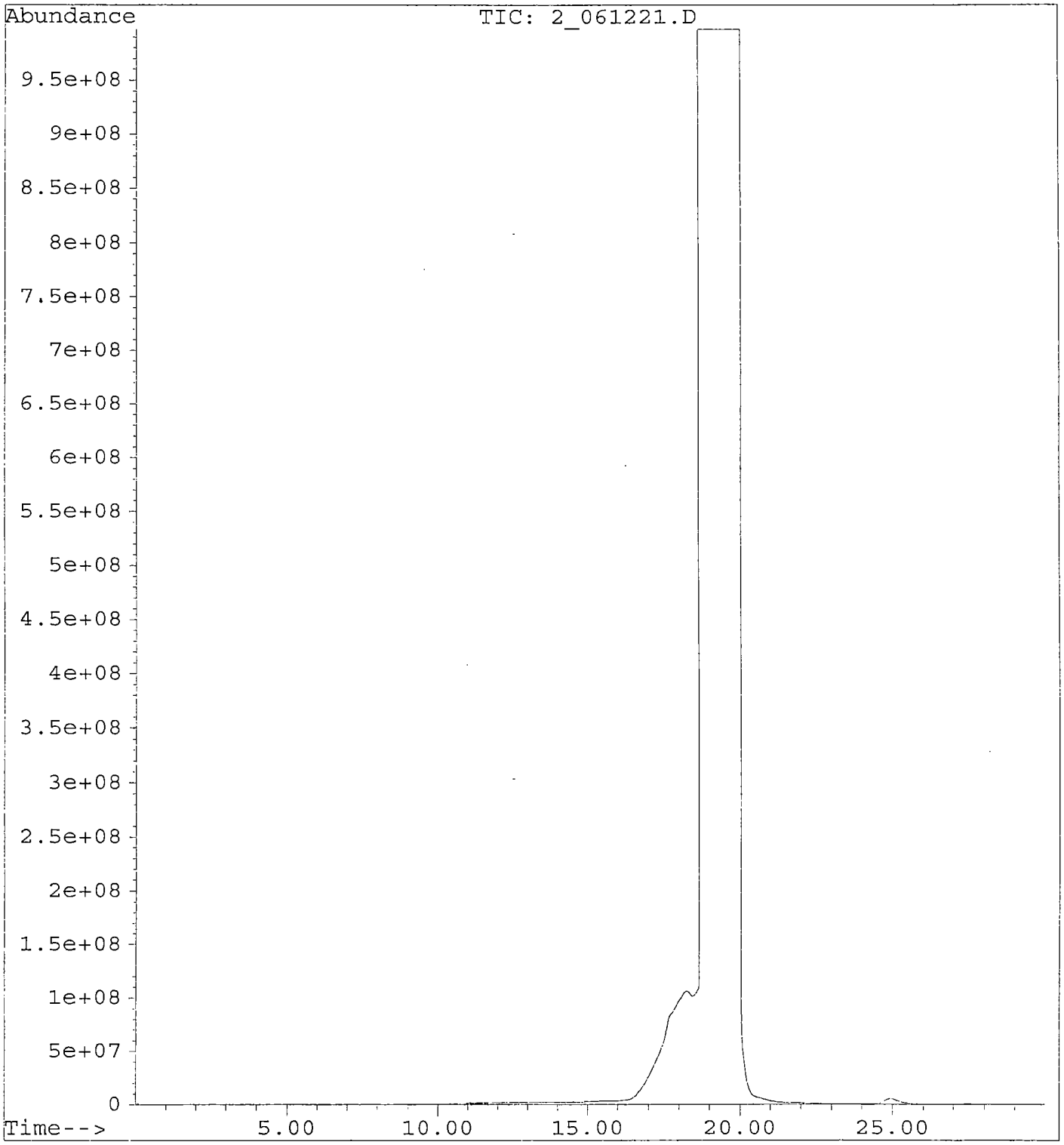
File : C:\HPCHEM\6\DATA\061201\2_061213.D
Operator : CR COL# 364134
Acquired : 12 Jun 01 23:32 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 46732.41 EPA E30W6MSD
Misc Info : COL# 364134
Vial Number: 13



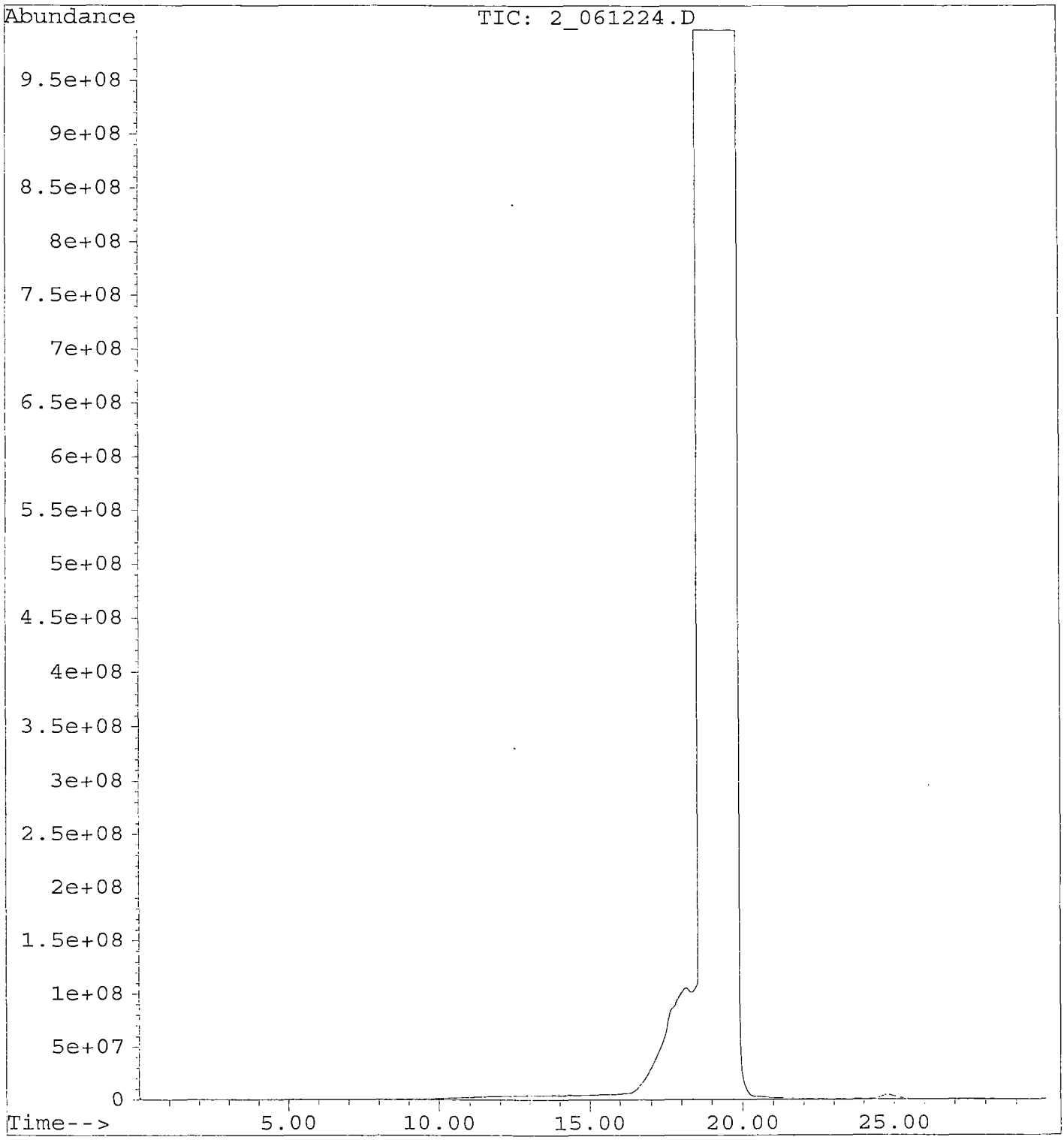
File : C:\HPCHEM\6\DATA\061201\2_061225.D
Operator : CR COL# 364134
Acquired : 13 Jun 01 05:45 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 46732.42 EPA E30Y7
Misc Info : COL# 364134
Vial Number: 25



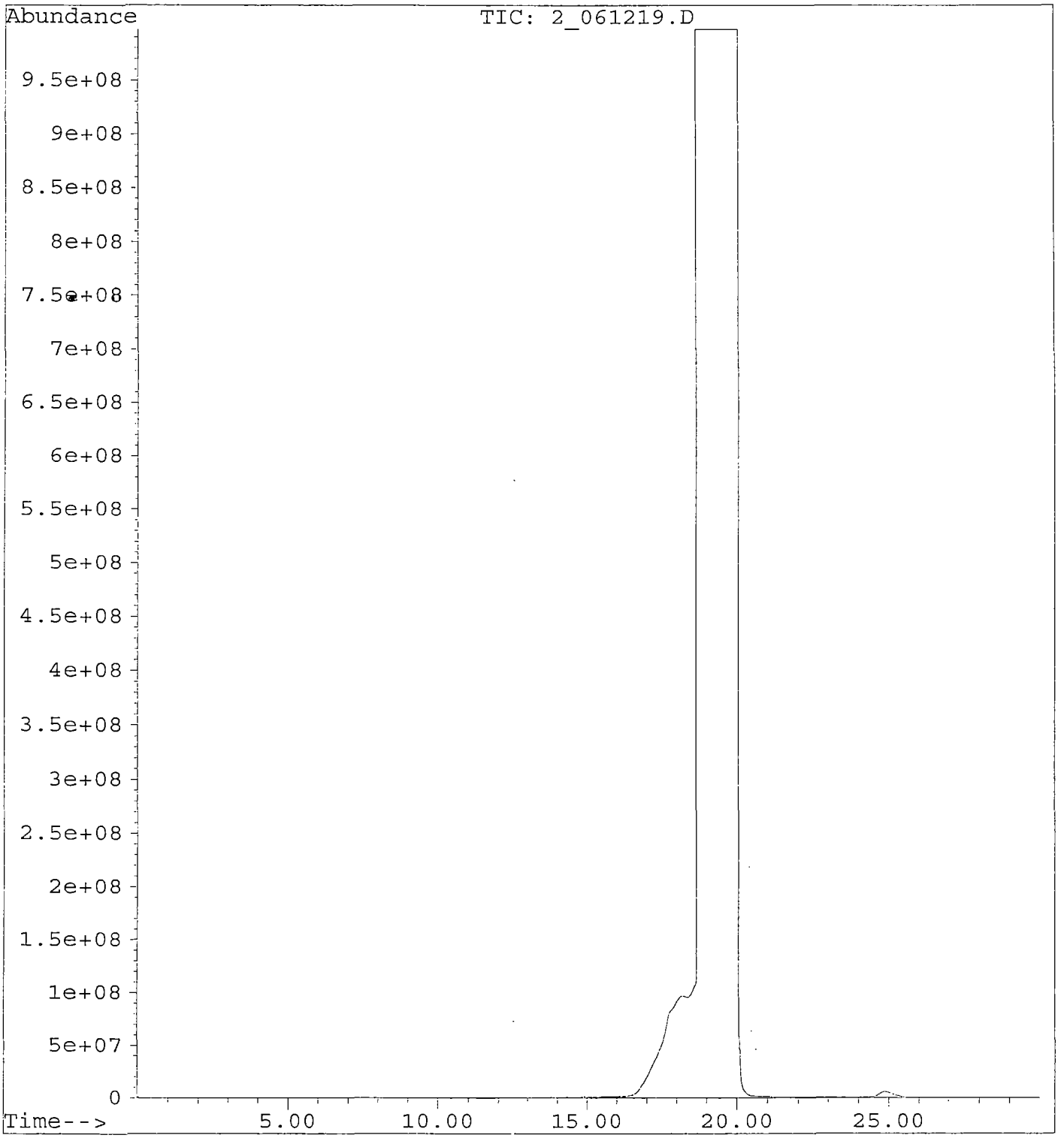
File : C:\HPCHEM\6\DATA\061201\2_061221.D
Operator : CR COL# 364134
Acquired : 13 Jun 01 03:41 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 46732.46 EPA E30Z1
Misc Info : COL# 364134
Vial Number: 21



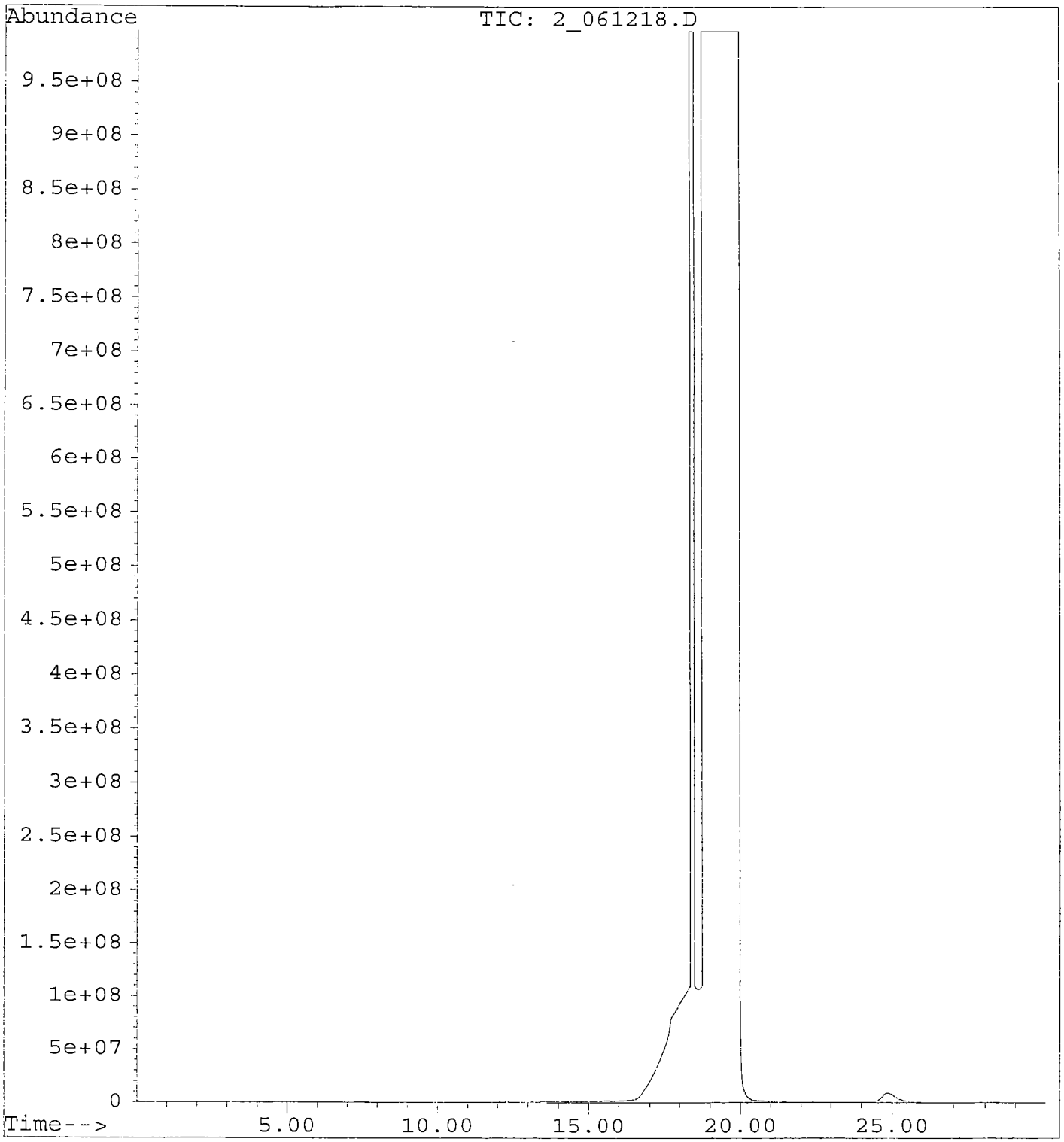
File : C:\HPCHEM\6\DATA\061201\2_061224.D
Operator : CR COL# 364134
Acquired : 13 Jun 01 05:14 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 46732.47 EPA E30Z2
Misc Info : COL# 364134
Vial Number: 24



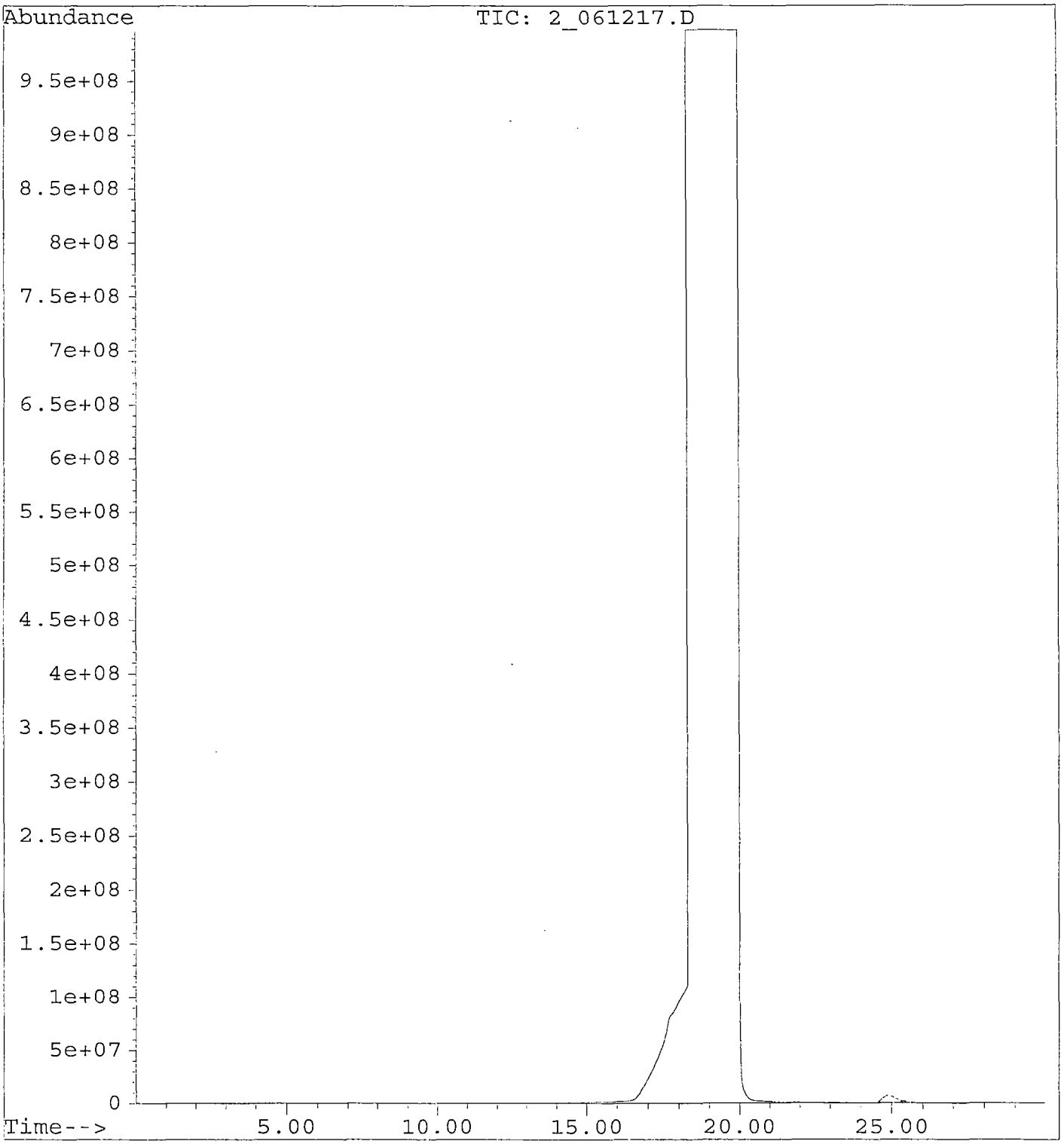
File : C:\HPCHEM\6\DATA\061201\2_061219.D
Operator : CR COL# 364134
Acquired : 13 Jun 01 02:39 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 46732.48 EPA E30Z3
Misc Info : COL# 364134
Vial Number: 19



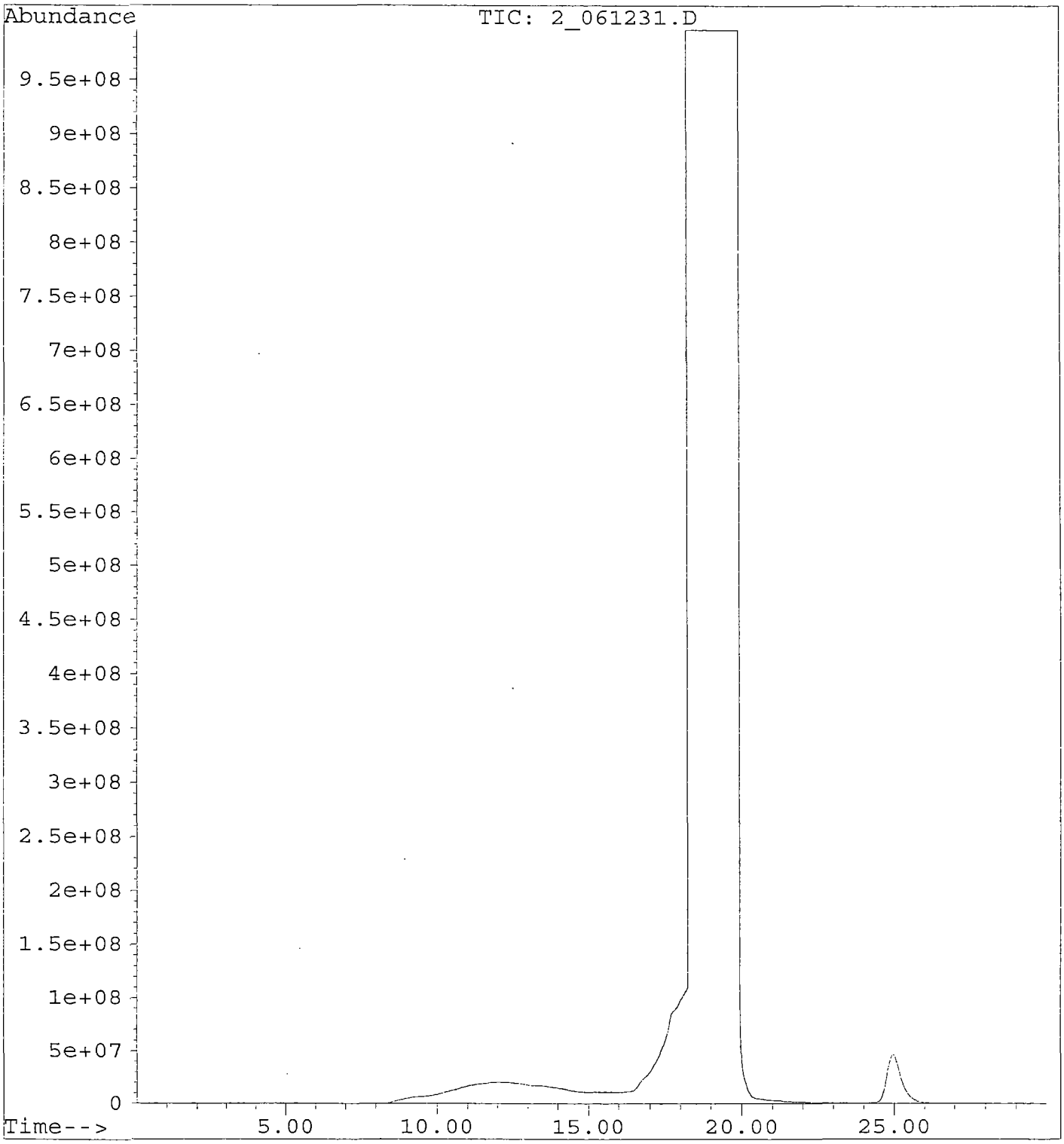
File : C:\HPCHEM\6\DATA\061201\2_061218.D
Operator : CR COL# 364134
Acquired : 13 Jun 01 02:07 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 46732.49 EPA E30Z4
Misc Info : COL# 364134
Vial Number: 18



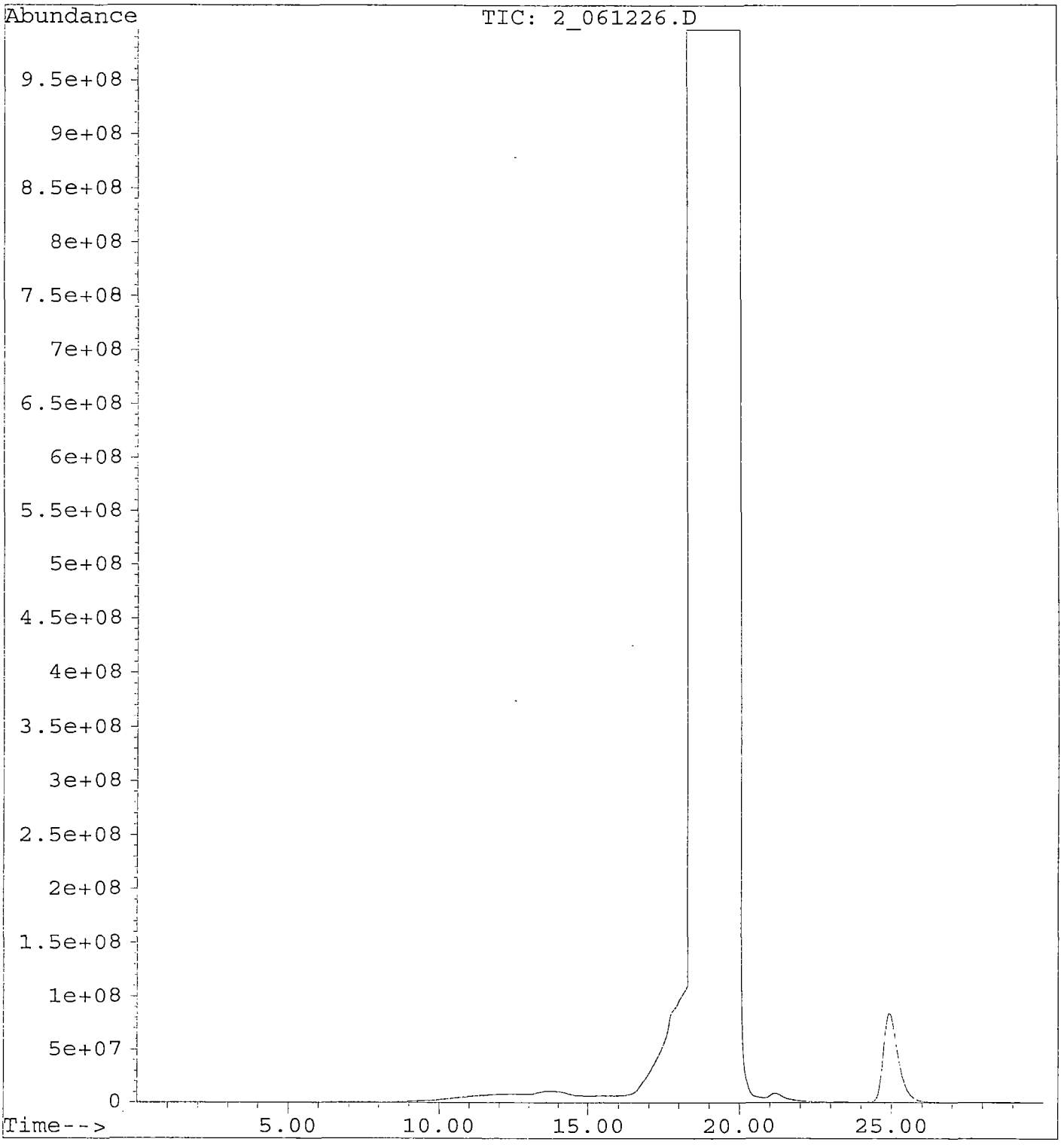
File : C:\HPCHEM\6\DATA\061201\2_061217.D
Operator : CR COL# 364134
Acquired : 13 Jun 01 01:36 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 46732.50 EPA E30Z5
Misc Info : COL# 364134
Vial Number: 17



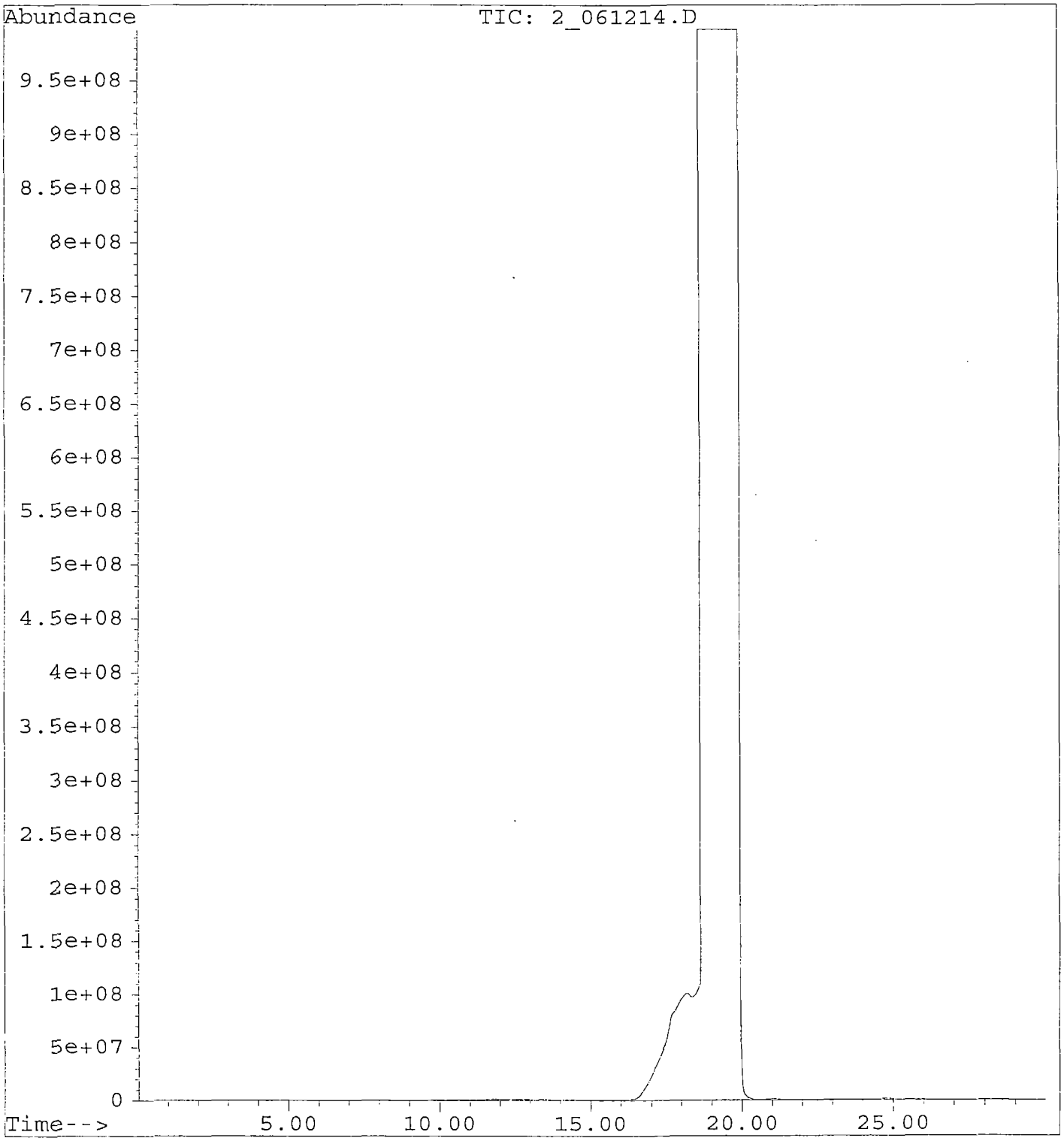
File : C:\HPCHEM\6\DATA\061201\2_061231.D
Operator : CR COL# 364134
Acquired : 13 Jun 01 09:23 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 46732.51 EPA E30Z6
Misc Info : COL# 364134
Vial Number: 31



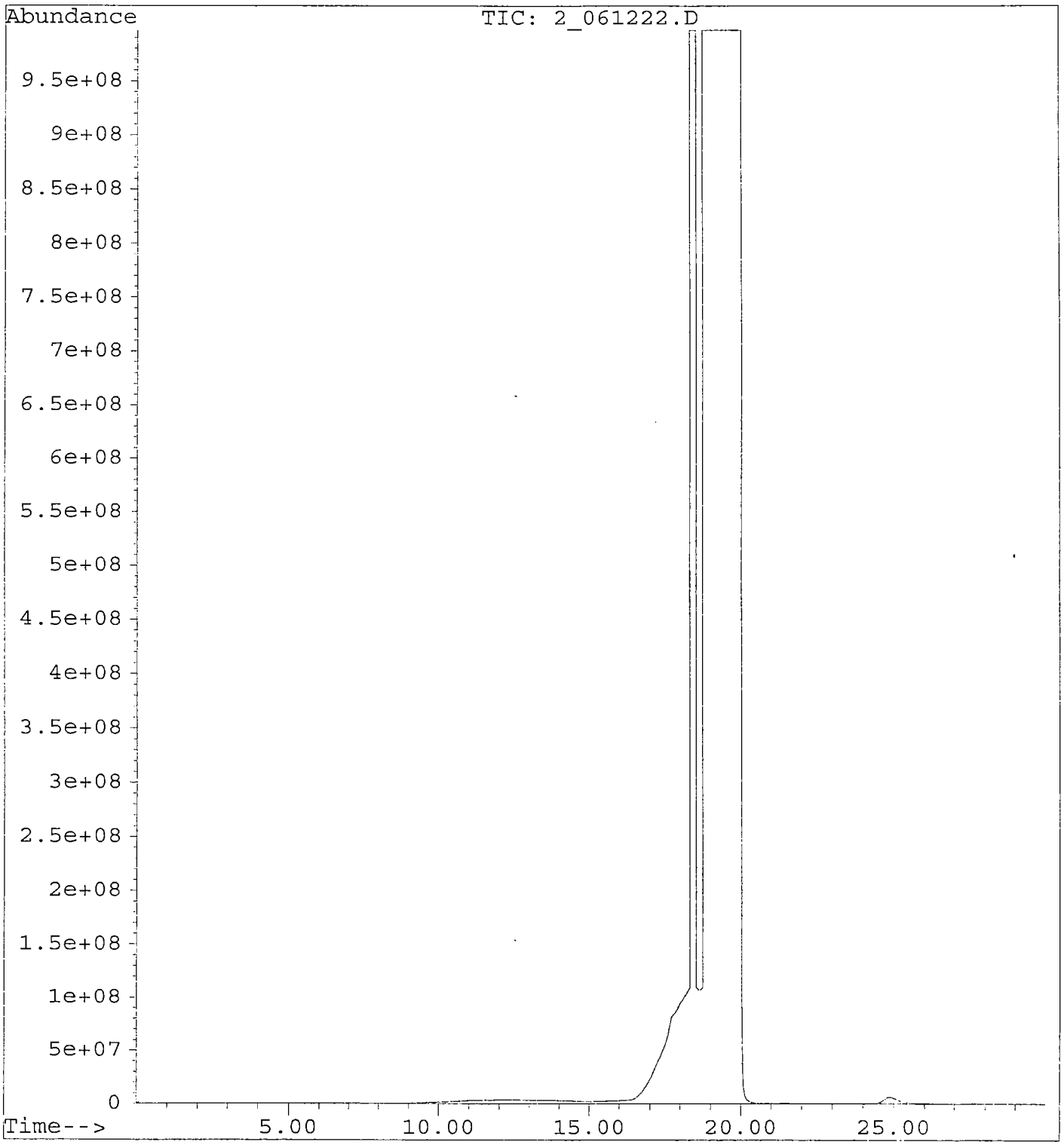
File : C:\HPCHEM\6\DATA\061201\2_061226.D
Operator : CR COL# 364134
Acquired : 13 Jun 01 06:16 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 46732.52 EPA E30Z7
Misc Info : COL# 364134
Vial Number: 26



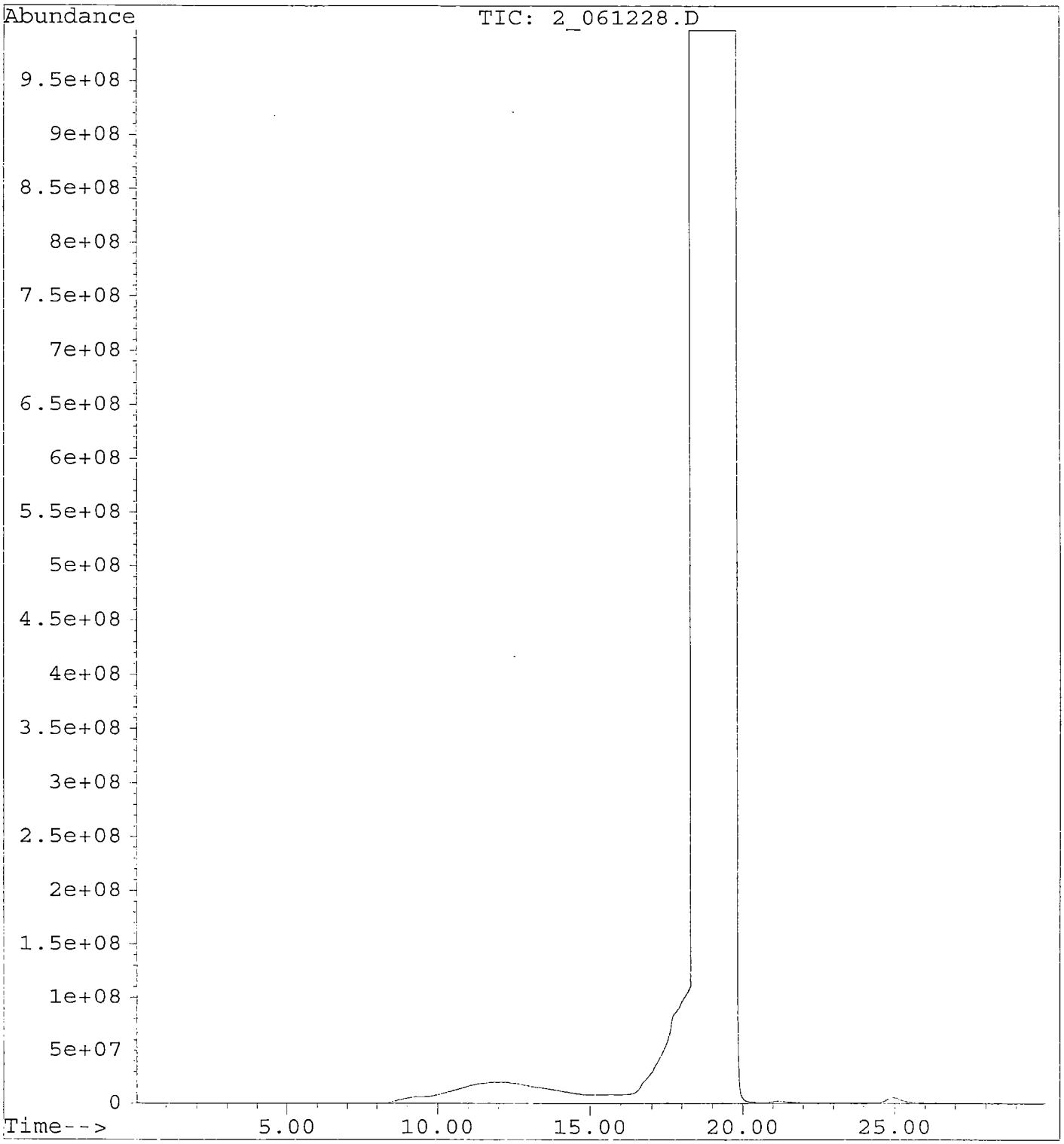
File : C:\HPCHEM\6\DATA\061201\2_061214.D
Operator : CR COL# 364134
Acquired : 13 Jun 01 00:03 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 46732.53 EPA E30Z8
Misc Info : COL# 364134
Vial Number: 14



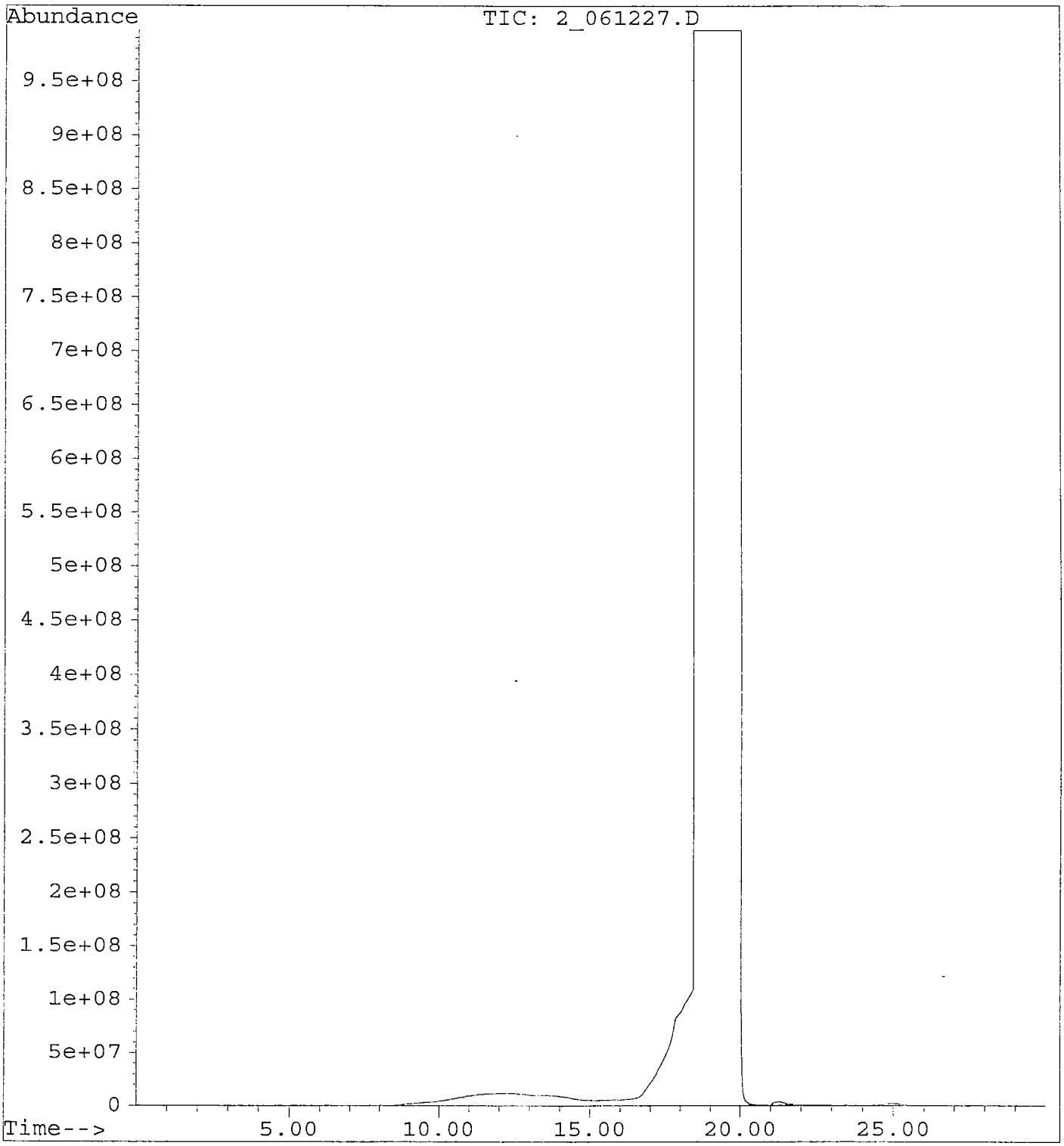
File : C:\HPCHEM\6\DATA\061201\2_061222.D
Operator : CR COL# 364134
Acquired : 13 Jun 01 04:12 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 46732.54 EPA E30Z9
Misc Info : COL# 364134
Vial Number: 22



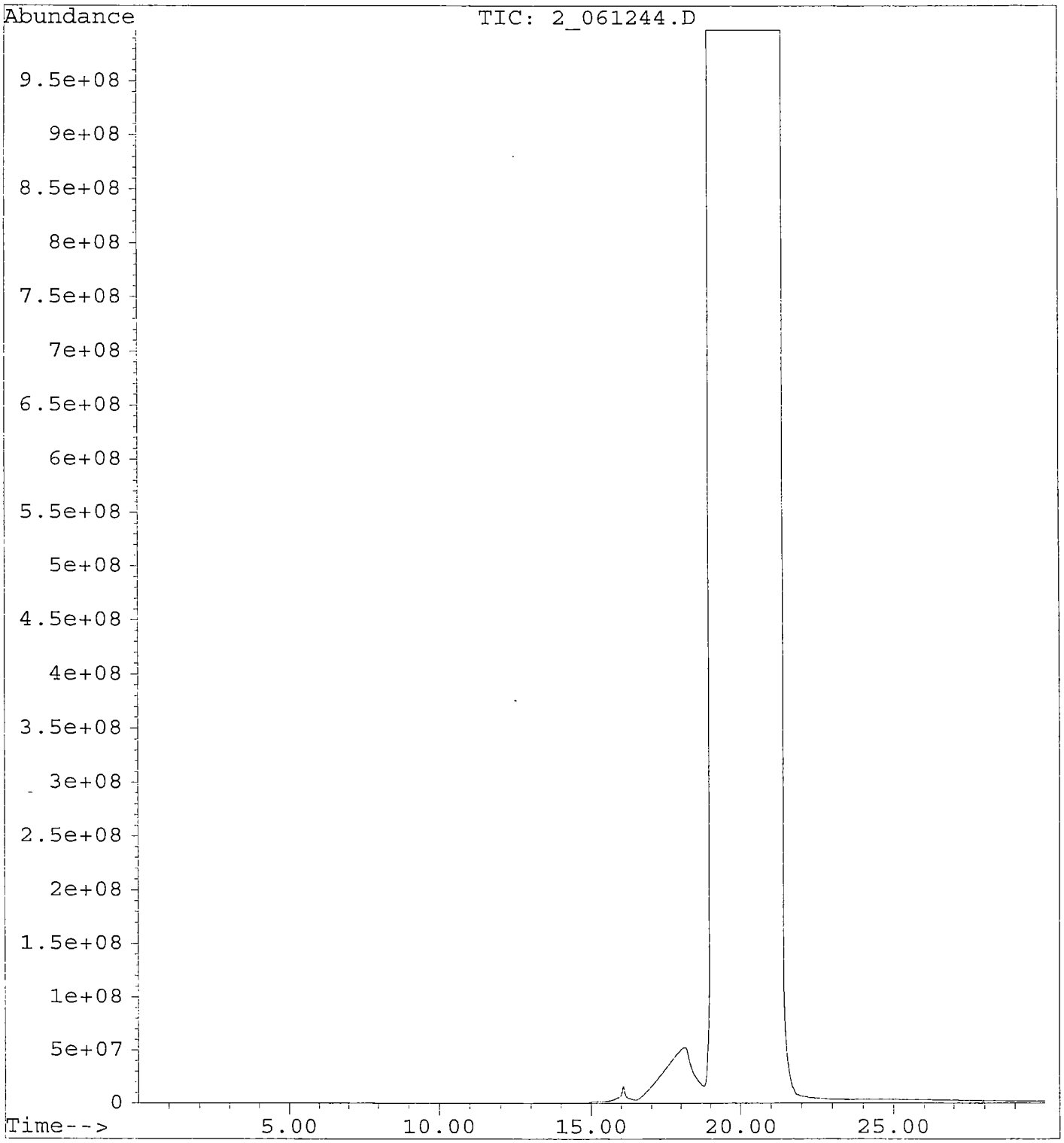
File : C:\HPCHEM\6\DATA\061201\2_061228.D
Operator : CR COL# 364134
Acquired : 13 Jun 01 07:18 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 46732.57 EPA E3102
Misc Info : COL# 364134
Vial Number: 28



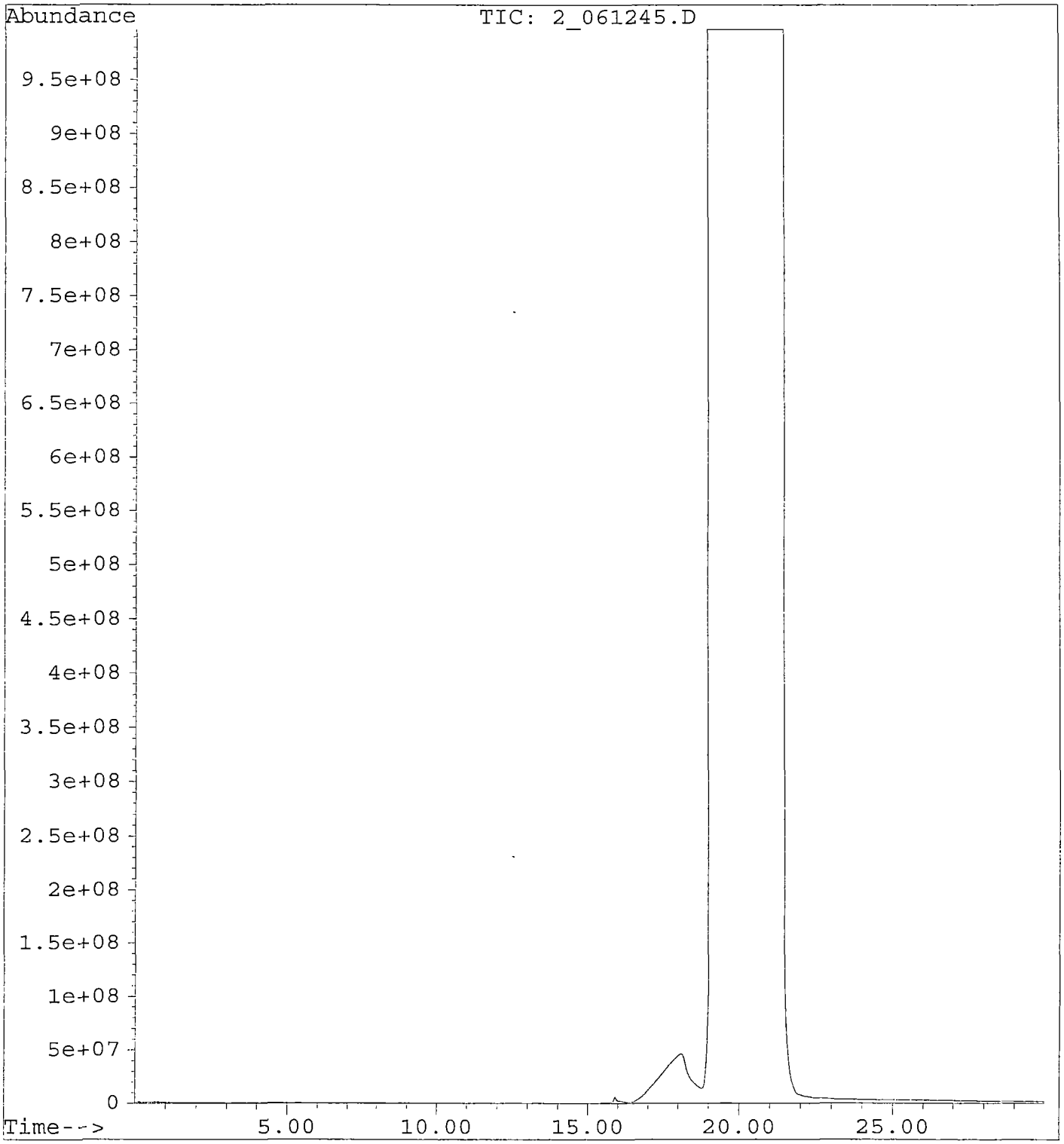
File : C:\HPCHEM\6\DATA\061201\2_061227.D
Operator : CR COL# 364134
Acquired : 13 Jun 01 06:47 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 46732.58 EPA E3103
Misc Info : COL# 364134
Vial Number: 27



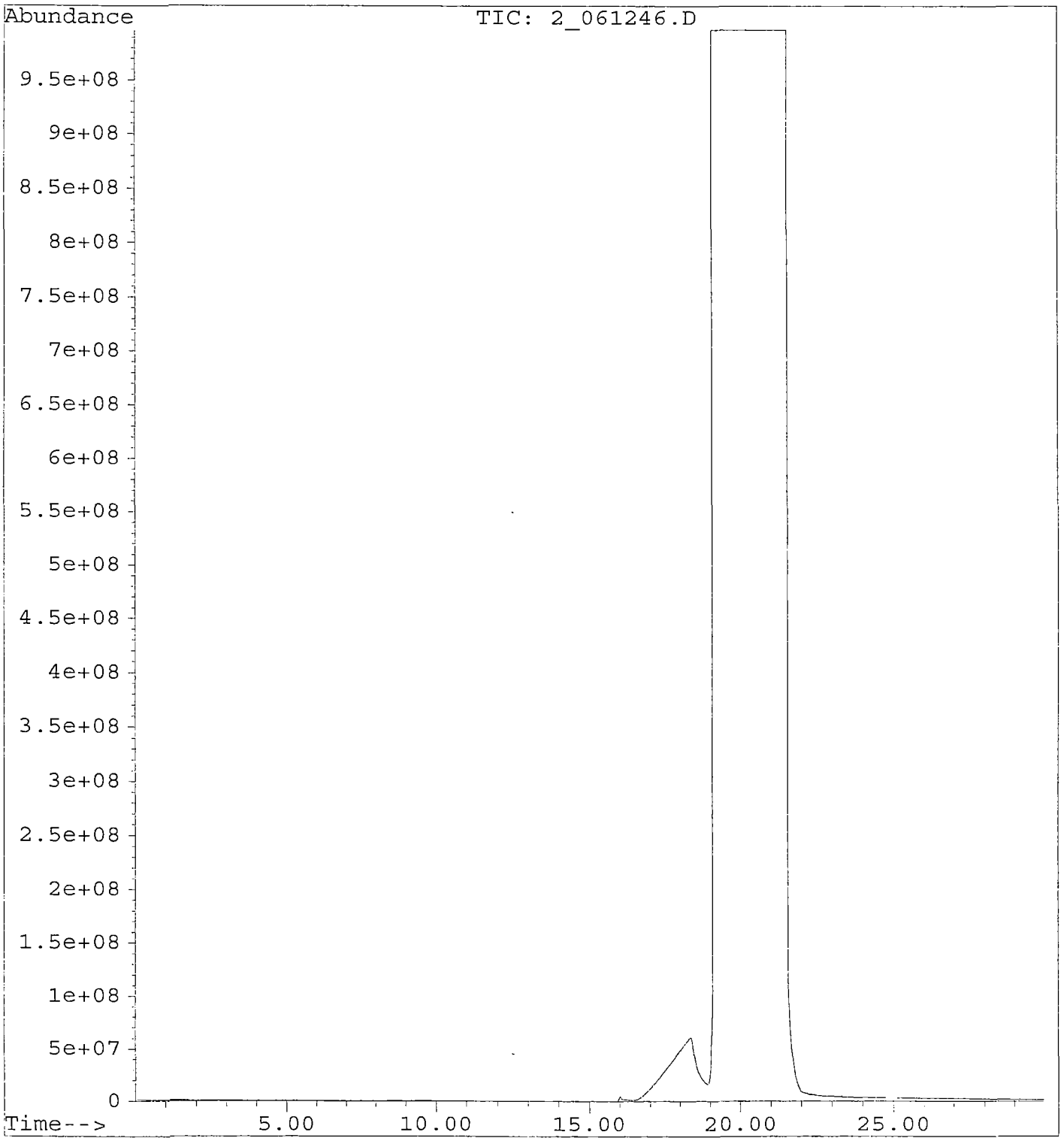
File : C:\HPCHEM\6\DATA\061201\2_061244.D
Operator : CR COL# 364134
Acquired : 13 Jun 01 16:04 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: SB
Misc Info : COL# 364134
Vial Number: 44



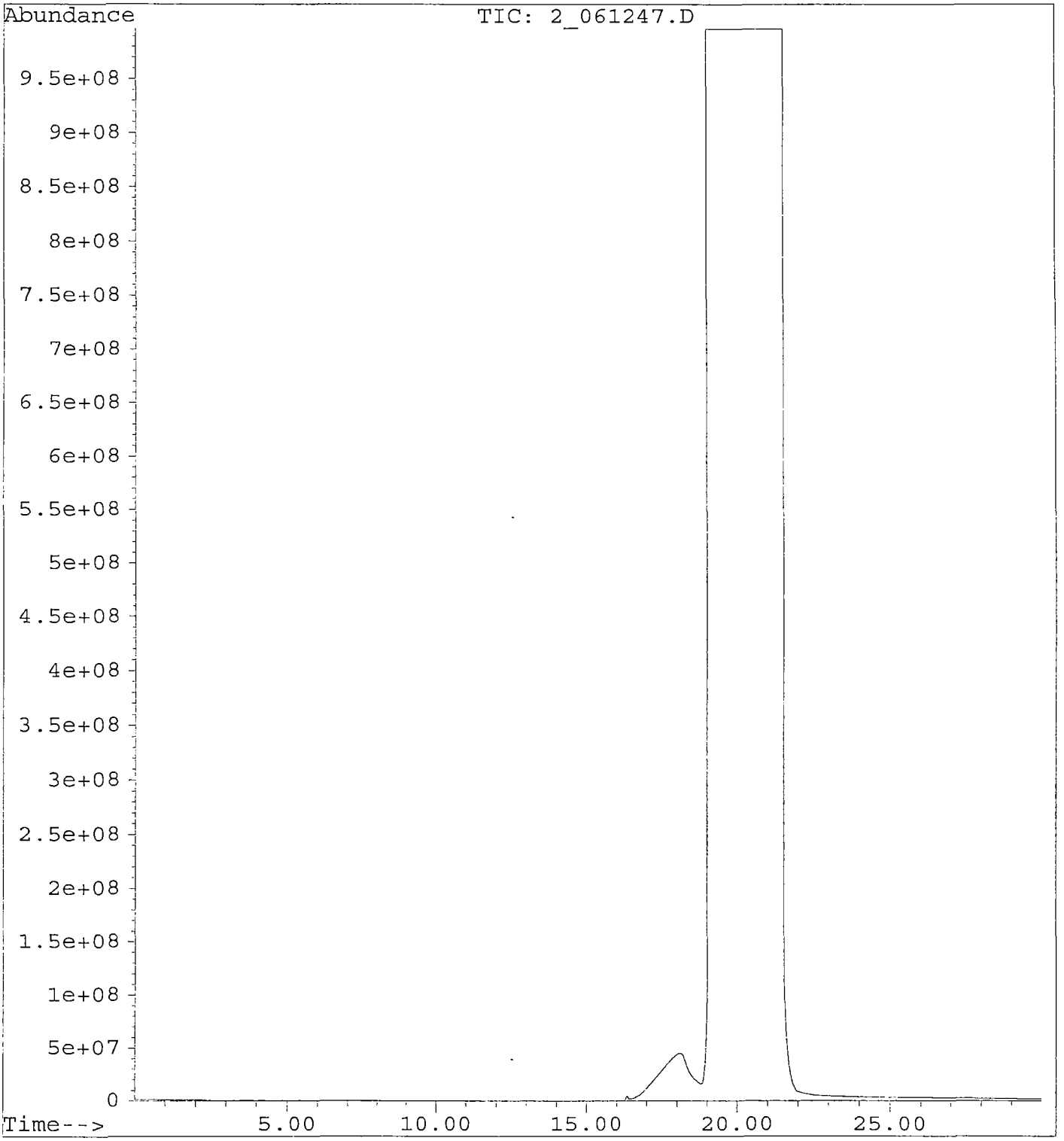
File : C:\HPCHEM\6\DATA\061201\2_061245.D
Operator : CR COL# 364134
Acquired : 13 Jun 01 16:35 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: SB
Misc Info : COL# 364134
Vial Number: 45



File : C:\HPCHEM\6\DATA\061201\2_061246.D
Operator : CR COL# 364134
Acquired : 13 Jun 01 17:06 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: SB
Misc Info : COL# 364134
Vial Number: 46

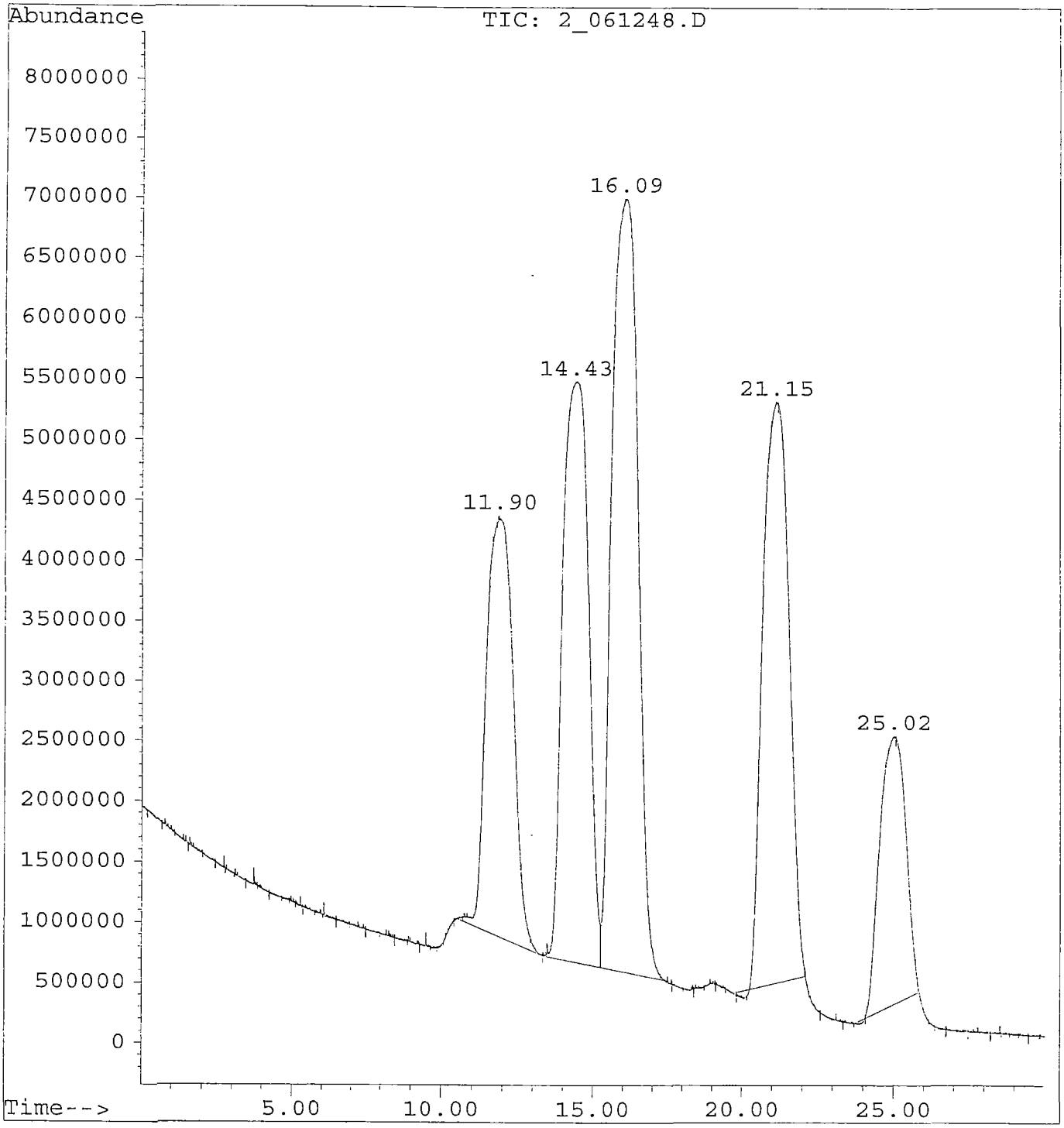


File : C:\HPCHEM\6\DATA\061201\2_061247.D
Operator : CR COL# 364134
Acquired : 13 Jun 01 17:37 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: SB
Misc Info : COL# 364134
Vial Number: 47



Data File : C:\HPCHEM\6\DATA\061201\2_061248.D
Acq On : 13 Jun 01 06:08 PM
Sample : CAL. STD (FINAL)
Misc : COL# 364134

Vial: 48
Operator: CR COL#
Inst : GPC2
Multiplr: 1.00



1) 11.90 = Corn Oil
2) 14.43 = Pthalate
3) 16.09 = Methoxychlor
4) 21.15 = Perylene
5) 25.02 = Sulfur

Chromatographic Resolution Report

Data File : C:\HPCHEM\6\DATA\061201\2_061248.D
Acq On : 13 Jun 01 18:08
Sample : CAL. STD (FINAL)
Misc : COL# 364134

Vial: 48
Operator: CR COL# 36
Inst : GPC2
Multiplr: 1.00

Method : C:\HPCHEM\5\METHODS\GPC.M
Title :

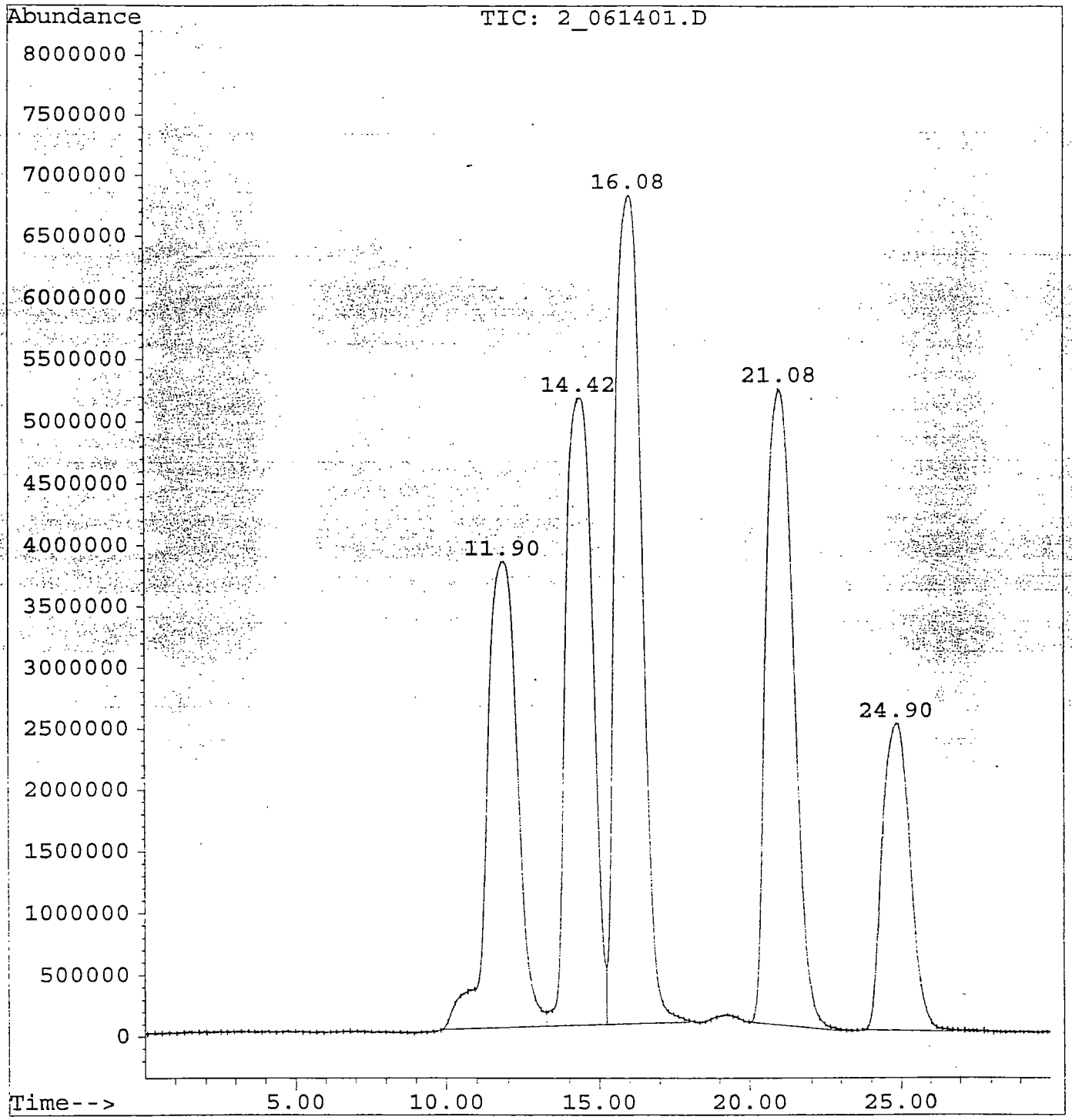
RT#1	RT#2	Resolution	
11.901	14.428	~~100.00~~	83.15
14.428	16.094	~~93.71~~	82.14
16.094	21.150	~~100.00~~	95.10
21.150	25.015	~~100.00~~	96.33

CR 6/14

2_061248.D GPC.M Thu Jun 14 09:03:29 2001

Data File : C:\HPCHEM\6\DATA\061401\2_061401.D
Acq On : 14 Jun 01 03:40 PM
Sample : [redacted]
Misc : COL# 364134

Vial: 1
Operator: CR COL#
Inst : GPC2
Multiplr: 1.00



Chromatographic Resolution Report

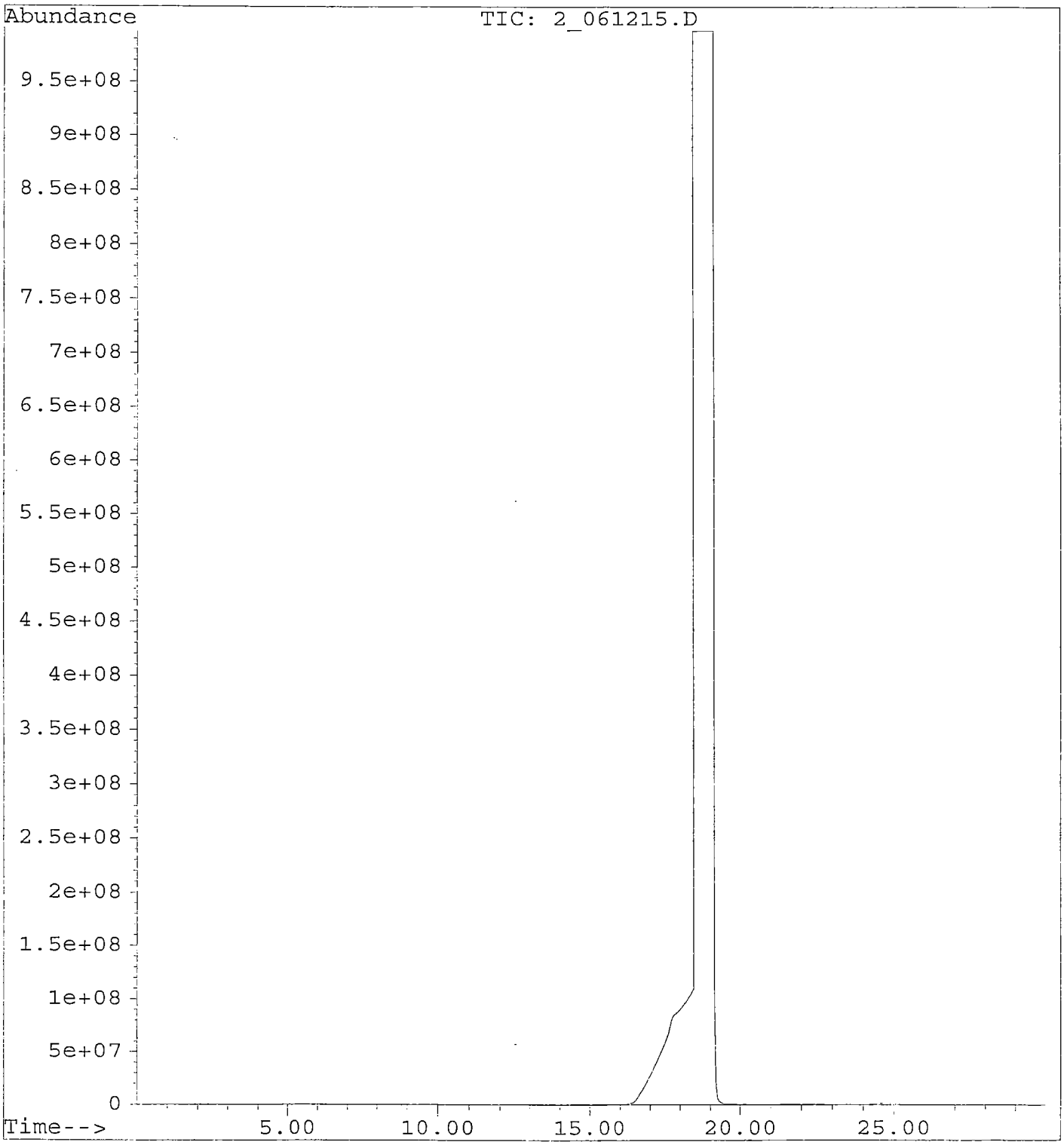
Data File : C:\HPCHEM\6\DATA\061401\2_061401.D
Acq On : 14 Jun 01 15:40
Sample : CAL.STD (INITIAL)
Misc : COL# 364134

Vial: 1
Operator: CR COL# 36
Inst : GPC2
Multiplr: 1.00

Method : C:\HPCHEM\6\METHODS\GPC.M
Title :

RT#1	RT#2	Resolution
11.902	14.419	97.31
14.419	16.079	90.84
16.079	21.080	100.00
21.080	24.898	100.00

File : C:\HPCHEM\6\DATA\061201\2_061215.D
Operator : CR COL# 364134
Acquired : 13 Jun 01 00:34 using AcqMethod GPC.MTH
Instrument : GPC2
Sample Name: 46732.74 EPA E3116
Misc Info : COL# 364134
Vial Number: 15



Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_20_01\15062041.D\ECD1A.CH Vial: 37
Signal #2 : F:\HPCHEM\HP\15\DATA\06_20_01\15062041.D\ECD2B.CH
Acq On : 21 Jun 2001 00:41 Operator: DDC
Sample : SB061201C *SB061201C * Inst : HP_15
Misc : **1000ML/10.0ML* Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 21 8:51 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

System Monitoring Compounds:

Target Compounds:

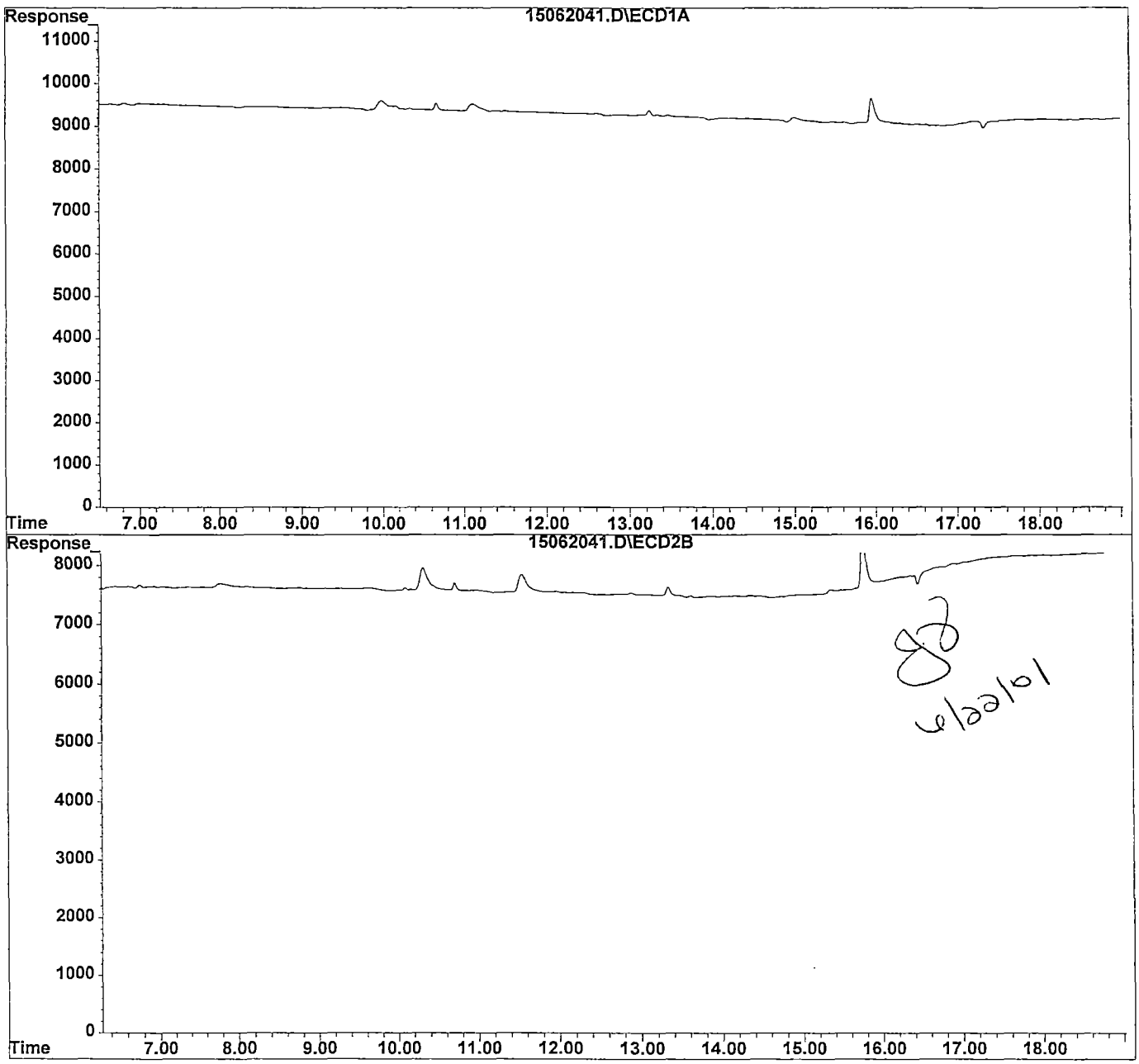
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_20_01\15062041.D\ECD1A.CH Vial: 37
Signal #2 : F:\HPCHEM\HP\15\DATA\06_20_01\15062041.D\ECD2B.CH
Acq On : 21 Jun 2001 00:41 Operator: DDC
Sample : SB061201C *SB061201C * Inst : HP_15
Misc : **1000ML/10.0ML* Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 21 8:51 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B



6/22/01

Quantitation Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_20_01\15062042.D\ECD1A.CH Vial: 38
Signal #2 : F:\HPCHEM\HP\15\DATA\06_20_01\15062042.D\ECD2B.CH
Acq On : 21 Jun 2001 1:04 Operator: DDC
Sample : SB061201D *SB061201D * Inst : HP_15
Misc : **1000ML/10.0ML* Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 21 8:51 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Initial Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L

System Monitoring Compounds:

Target Compounds:

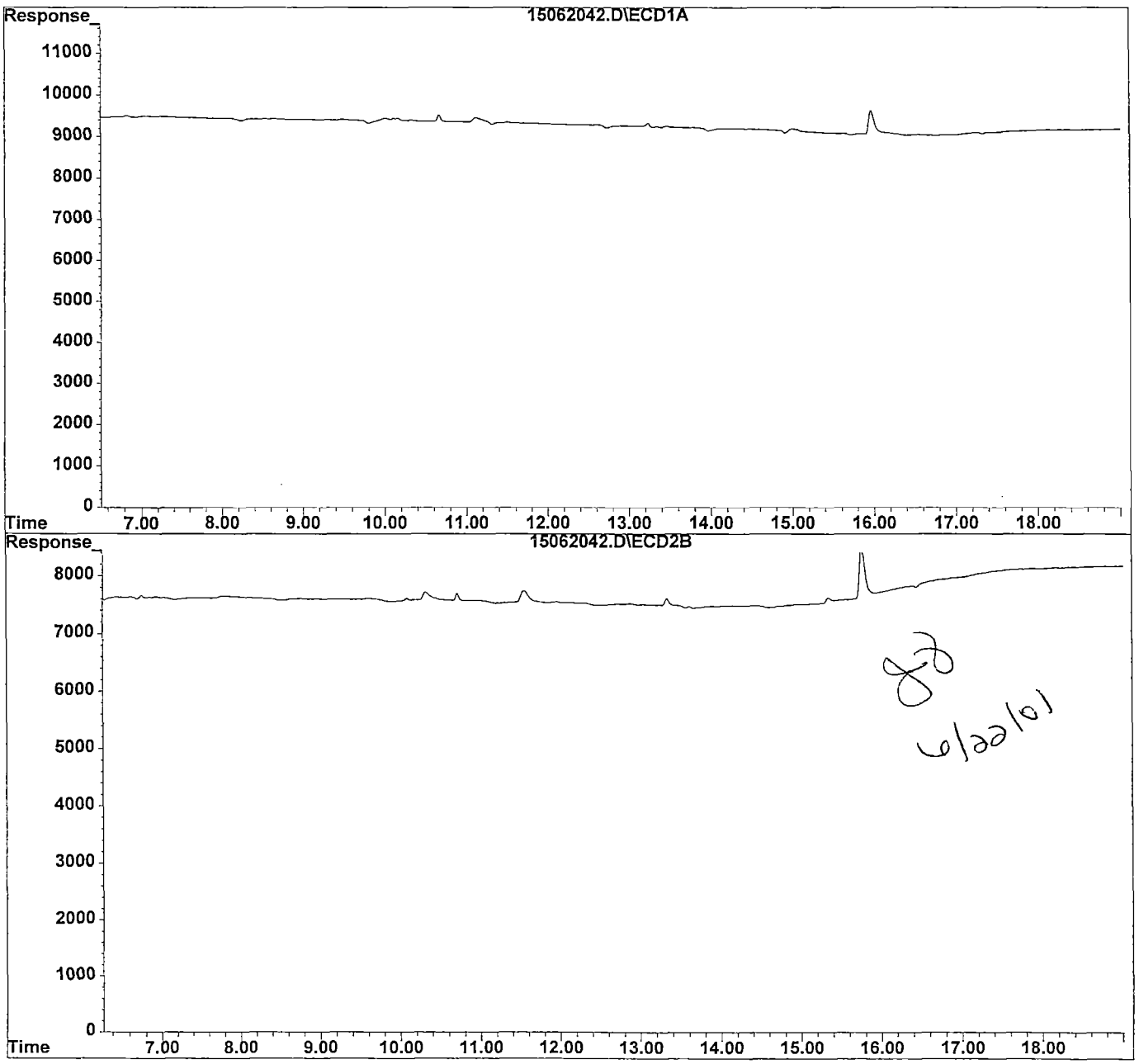
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
(E)= > Highest cal. std. (d)=compound deleted (H) Dil. < med. std

Chromatographic Report

Signal #1 : F:\HPCHEM\HP\15\DATA\06_20_01\15062042.D\ECD1A.CH Vial: 38
Signal #2 : F:\HPCHEM\HP\15\DATA\06_20_01\15062042.D\ECD2B.CH
Acq On : 21 Jun 2001 1:04 Operator: DDC
Sample : SB061201D *SB061201D * Inst : HP_15
Misc : **1000ML/10.0ML* Dilution: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Jun 21 8:51 2001 Quant Results File: XPCBF14.RES

Method : F:\HPCHEM\HP\15\DATA\06_20_01\XPCBF14.M
Title-Path : PCB/TOXAPHENE - F:\HPCHEM\HP\15\DATA\06_14_01\
Last Update : Thu Jun 07 08:46:05 2001
Response via : Multiple Level Calibration

Volume Inj. : 0.5uL
Signal #1 Phase : DB-17MS Signal #2 Phase: DB-XLB
Signal #1 Info : .32 mm Signal #2 Info : .32 mm
Signal #1 Inst : HP_15A Signal #2 Inst : HP_15B



6/22/01

GC Laboratory Run Log - PESTICIDE/PCB

SWOK/AATS SWLO-OP-415 OP-415-RUNLOG-13 SWL Rev.#: 2.1

CASE NO.: SWLO INJ. VOL: 0.5 uL INSTRUMENT: HP_15
SDG NO. : SWLO METHOD FILE(S): XPCBF14 (8082)

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
06/14/01 14:02	HEX	HEX	15061401	Sol
06/14/01 14:25	HEX	HEX	15061402	
06/14/01 14:48	HEX	HEX	15061403	
06/14/01 15:12	HEX	HEX	15061404	
06/14/01 19:28	HEX	HEX	15061405	Sol
06/14/01 19:52	RESC5C	5-441-6	15061406	OK
06/14/01 20:15	AR1221L35C	5-420-6	15061407	
06/14/01 20:38	AR1232L35C	5-422-6	15061408	
06/14/01 21:01	AR1242L15C	5-11-7	15061409	
06/14/01 21:25	AR1242L25C	5-10-7	15061410	
06/14/01 21:48	AR1242L35C	5-9-7	15061411	
06/14/01 22:11	AR1242L45C	5-8-7	15061412	
06/14/01 22:34	AR1242L55C	5-7-7	15061413	
06/14/01 22:57	AR1248L35C	5-424-6	15061414	
06/14/01 23:21	AR1254L15C	5-6-7	15061415	
06/14/01 23:44	AR1254L25C	5-5-7	15061416	
06/15/01 00:07	AR1254L35C	5-4-7	15061417	
06/15/01 00:30	AR1254L45C	5-3-7	15061418	
06/15/01 00:53	AR1254L55C	5-2-7	15061419	
06/15/01 1:17	AR1660L15C	5-31-7	15061420	
06/15/01 1:40	AR1660L25C	5-30-7	15061421	OK

Unless noted, Client Ids are the same for the quant. & confirmation columns

6/15/01 — Verification Signature/Date

6-15-01 — Analyst Signature/Date

GC Laboratory Run Log - PESTICIDE/PCB

SWOK/AATS SWLO-OP-415 OP-415-RUNLOG-13 SWL Rev.#: 2.1

CASE NO.: SWLO INJ. VOL: 0.5 uL INSTRUMENT: HP_15
SDG NO. : SWLO METHOD FILE(S): XPCBF14 (8082)

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
06/15/01 2:03	AR1660L35V	5-29-7	15061422	OK
06/15/01 2:26	AR1660L45C	5-28-7	15061423	
06/15/01 2:49	AR1660L55C	5-27-7	15061424	
06/15/01 3:13	PIBLK5G	5-414-6	15061425	
06/15/01 3:36	AR1660L3ICV5C	5-442-6	15061426	
06/15/01 3:59	AR1221L3ICV5C	5-436-6	15061427	
06/15/01 4:22	AR1232L3ICV5C	5-437-6	15061428	
06/15/01 4:45	AR1242L3ICV5C	5-438-6	15061429	
06/15/01 5:09	AR1248L3ICV5C	5-439-6	15061430	
06/15/01 5:32	AR1254L3ICV5C	5-440-6	15061431	OK
06/15/01 5:55	E30G7DL	46676.10DL	15061432	
06/15/01 6:18	E00E6	46702.11	15061433	
06/15/01 6:41	E00E6MS	46702.12MS	15061434	
06/15/01 7:05	E00E6MSD	46702.13MSD	15061435	
06/15/01 7:28	E00F6	46702.14	15061436	
06/15/01 7:51	E00F7	46702.15	15061437	
06/15/01 8:14	E00F8	46702.16	15061438	
06/15/01 8:37	E00G0	46702.17	15061439	
06/15/01 9:01	E00G1	46702.18	15061440	OK
06/15/01 9:24	HEX	HEX	15061441	Sol
06/15/01 9:47	HEX	HEX	15061442	Sol

Unless noted, Client Ids are the same for the quant. & confirmation columns

6/15/01 — Verification Signature/Date

6-15-1 — Analyst Signature/Date

GC Laboratory Run Log - PESTICIDE/PCB

SWOK/AATS SWLO-OP-415 OP-415-RUNLOG-13 SWL Rev.#: 2.1

CASE NO.: SWLO INJ. VOL: 0.5 uL INSTRUMENT: HP_15
SDG NO. : SWLO METHOD FILE(S): XPCBF14 (8082)

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
06/20/01 17:21	E00F1	46702.06	15062022	QC
06/20/01 17:44	E00F2	46702.07	15062023	
06/20/01 18:07	E00F3	46702.08	15062024	
06/20/01 18:31	E00F4	46702.09	15062025	
06/20/01 18:54	E30M2DL	46689.49DL	15062026	
06/20/01 19:17	E30M2DL	46689.49DL	15062027	
06/20/01 19:40	E30R9DL	46721.44DL	15062028	
06/20/01 20:03	E30S0DL	46721.45DL	15062029	
06/20/01 20:26	E30S1DL	46721.46DL	15062030	
06/20/01 20:50	E30Q8	46721.32	15062031	
06/20/01 21:13	E30Q9DL	46721.33DL	15062032	
06/20/01 21:36	BB0607SE	BB0607SE	15062033	
06/20/01 21:59	E30M1DL	46689.48DL	15062034	OK
06/20/01 22:22	HEX	HEX	15062035	Sol
06/20/01 22:45	HEX	HEX	15062036	Sol
06/20/01 23:08	HEX	HEX	15062037	Sol
06/20/01 23:31	PIBLKI5	5-414-6	15062038	OK
06/20/01 23:55	AR1660L35P	5-29-7	15062039	OK
06/21/01 00:18	AR1660L35Q	5-29-7	15062040	"
06/21/01 00:41	SB061201C	SB061201C	15062041	OK
06/21/01 1:04	SB061201D	SB061201D	15062042	OK

Unless noted, Client Ids are the same for the quant. & confirmation columns

Jennifer Allman 6-22-01 6-22-01
Verification Signature/Date Analyst Signature/Date

GC Laboratory Run Log - PESTICIDE/PCB

SWOK/AATS SWLO-OP-415 OP-415-RUNLOG-13 SWL Rev.#: 2.1

CASE NO.: SWLO INJ. VOL: 0.5 uL INSTRUMENT: HP_15
SDG NO. : SWLO METHOD FILE(S): XPCBF14 (8082)

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
06/21/01 1:27	PBLKSC	BL0609SC	15062043	OK
06/21/01 1:50	PBLKSC	BB0609SC	15062044	
06/21/01 2:13	ELCS1	LC0609SC	15062045	
06/21/01 2:36	ELCS2	LD0609SC	15062046	OK
06/21/01 2:59	HEX	HEX	15062047	Sol
06/21/01 3:23	PIBLKJ5	5-414-6	15062048	OK
06/21/01 3:46	AR1660L35R	5-29-7	15062049	Out high
06/21/01 4:09	AR1660L35S	5-29-7	15062050	OK
06/21/01 4:32	E30Y6	46732.38	15062051	OK
06/21/01 4:55	E30W6	46732.39	15062052	
06/21/01 5:18	E30W6MS	46732.40MS	15062053	
06/21/01 5:41	E30W6MSD	46732.41MSD	15062054	
06/21/01 6:05	E30Y7	46732.42	15062055	
06/21/01 6:28	E30Y8	46732.43	15062056	
06/21/01 6:51	E30Y9	46732.44	15062057	
06/21/01 7:14	E30Z0	46732.45	15062058	OK
06/21/01 7:37	HEX	HEX	15062059	Sol
06/21/01 8:00	HEX	HEX	15062060	Sol
06/21/01 8:23	HEX	HEX	15062061	Sol
06/21/01 8:46	PIBLKK5	5-414-6	15062062	OK
06/21/01 9:09	AR1660L35T	5-29-7	15062063	OK

Unless noted, Client Ids are the same for the quant. & confirmation columns

Jennifer Wellman 6-22-01 6-22-01
Verification Signature/Date Analyst Signature/Date

GC Laboratory Run Log - PESTICIDE/PCB

SWOK/AATS SWLO-OP-415 OP-415-RUNLOG-13 SWL Rev.#: 2.1

CASE NO.: SWLO INJ. VOL: 0.5 uL INSTRUMENT: HP_15
SDG NO. : SWLO METHOD FILE(S): XPCBF14 (8082)

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
06/21/01 9:33	AR1660L35U	5-29-7	15062064	in
06/21/01 9:56	E00E5DL	46702.01DL	15062065	OK
06/21/01 10:19	E30Q8DL	46721.32DL	15062066	
06/21/01 10:42	E30Z1	46732.46	15062067	
06/21/01 11:05	E30Z2	46732.47	15062068	
06/21/01 11:28	E30Z3	46732.48	15062069	
06/21/01 11:51	E30Z4	46732.49	15062070	
06/21/01 12:15	E30Z5	46732.50	15062071	
06/21/01 12:38	E30Z6	46732.51	15062072	
06/21/01 13:01	E30Z7	46732.52	15062073	
06/21/01 13:24	E30Z8	46732.53	15062074	OK
06/21/01 13:47	HEX	HEX	15062075	Sol
06/21/01 14:10	HEX	HEX	15062076	Sol
06/21/01 14:33	HEX	HEX	15062077	Sol
06/21/01 14:56	PIBLKL5	5-414-6	15062078	OK
06/21/01 15:20	AR1660L35~~U~~2 fo 06/22/01	5-29-7	15062079	OK
06/21/01 15:43	AR1660L35W	5-29-7	15062080	in
06/21/01 16:06	E30Z9	46732.54	15062081	OK
06/21/01 16:29	E3100	46732.55	15062082	
06/21/01 16:52	E3101	46732.56	15062083	
06/21/01 17:15	E3102	46732.57	15062084	OK

Unless noted, Client Ids are the same for the quant. & confirmation columns

Jennifer L Gillman 6-22-01 6-22-01
Verification Signature/Date Analyst Signature/Date

GC Laboratory Run Log - PESTICIDE/PCB

SWOK/AATS SWLO-OP-415 OP-415-RUNLOG-13 SWL Rev.#: 2.1

CASE NO.: SWLO INJ. VOL: 0.5 uL INSTRUMENT: HP_15
SDG NO. : SWLO METHOD FILE(S): XPCBF14 (8082)

DATE/TIME	CLIENT ID	SAMPLE ID	FILE	COMMENT
06/21/01 17:39	E3103	46732.58	15062085	OK
06/21/01 18:02	E3104	46732.59	15062086	OK
06/21/01 18:25	E30Y6DL	46732.38DL	~~15062087~~	OK misc 6/22/01
06/21/01 18:48	HEX	HEX	15062088	[illegible]
06/21/01 19:11	HEX	HEX	15062089	[illegible]
06/21/01 19:34	HEX	HEX	15062090	[illegible]
06/21/01 19:58	PIBLKM5	5-414-6	15062091	OK
06/21/01 20:21	AR1660L35X	5-29-7	15062092	OK
06/21/01 20:44	AR1660L35Y	5-29-7	15062093	[illegible]

Unless noted, Client Ids are the same for the quant. & confirmation columns

Jennifer Willmann 6-22-01 [illegible] 6-22-01

Verification Signature/Date Analyst Signature/Date

METHOD	SV	ST • PCB	OTHER
CONT EX. (3520C)			
SEP-F (3510C)			
SHAKER			
SONC. (3550B)		XXXXX	
SOXHLET			

[X] RUSH ☐ REEXTRACT ☐ TCLP [ ]XIN

SAMPLE EXTRACTION L

6/15

BATCH: 010609SC

EXTRACT DATE: 2001-06-09 13:06

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Page: 1 of 2

SAMPLE ID (EPISODE #)	CLIENT CASE	DATE RECEIVED CLIENT SAMPLE ID	MATRIX/LEVEL	SAMPLE pH	% MOISTURE %	DRY WEIGHT g	AMOUNT EXTRACTED g • ml	EXTRACTED VOLUME ml	GPC VOLUME ml	GPC ELUTE VOL ml	FLORISIL VOL CONC ml	FLORISIL FIN VOL CONC ml	VOL SV (P) ml	FIN PROCESS VOLUME ml	SCREEN Y/N Y/N	MS SV (P) µL	SURR SV (P) µL	BASE pH CONFIRMATION	ACID pH CONFIRMATION
BL0609SC			S/L				30.00	350	10/5	45	2.0		5.0	5.0	N		1000		
BB0609SC			S/L				30.00	350	10/5	45	2.0		5.0	5.0	N		1000		
LC0609SC			S/L				30.00	350	10/5	45	2.0		5.0	5.0	N	1000	1000		
LD0609SC			S/L				30.00	350	10/5	45	2.0		5.0	5.0	N	1000	1000		
46732.38 GC699	EPA 29294	06/09/2001 09:30 E30Y6	S/L	7.09	46.08	16.2	30.11	350	10/5	45	2.0		5.0	5.0	N		1000		
46732.39 GC699	EPA 29294	06/09/2001 09:30 E30W6	S/L	7.38	17.87	25.3	30.79	350	10/5	45	2.0		5.0	5.0	N		1000		
46732.40MS GC699	EPA 29294	06/09/2001 09:30 E30W6MS	S/L	7.38	17.87	25.2	30.72	350	10/5	45	2.0		5.0	5.0	N	1000	1000		
46732.41MSD GC699	EPA 29294	06/09/2001 09:30 E30W6MSD	S/L	7.38	17.87	24.8	30.17	350	10/5	45	2.0		5.0	5.0	N	1000	1000		
46732.42 GC699	EPA 29294	06/09/2001 09:30 E30Y7	S/L	7.55	24.20	22.9	30.22	350	10/5	45	2.0		5.0	5.0	N		1000		
46732.43 GC699	EPA 29294	06/09/2001 09:30 E30Y8	S/L	7.27	63.16	11.4	30.98	350	10/5	45	2.0		5.0	5.0	N		1000		
46732.44 GC699	EPA 29294	06/09/2001 09:30 E30Y9	S/L	7.08	66.02	10.2	30.14	350	10/5	45	2.0		5.0	5.0	N		1000		
46732.45 GC699	EPA 29294	06/09/2001 09:30 E30Z0	S/L	7.22	63.62	11.0	30.28	350	10/5	45	2.0		5.0	5.0	N		1000		
46732.46 GC699	EPA 29294	06/09/2001 09:30 E30Z1	S/L	7.81	13.39	26.3	30.32	350	10/5	45	2.0		5.0	5.0	N		1000		
46732.47 GC699	EPA 29294	06/09/2001 09:30 E30Z2	S/L	7.51	14.57	26.3	30.80	350	10/5	45	2.0		5.0	5.0	N		1000		
46732.48 GC699	EPA 29294	06/09/2001 09:30 E30Z3	S/L	7.62	9.08	27.9	30.69	350	10/5	45	2.0		5.0	5.0	N		1000		

INITIALS

WEIGHING:	CD	EXTRACTION:	CD	FLORISIL:
CLEANUP:	CR	KD:	MC	CH2Cl2
BLOWDOWN:	SA	TV:	BTB	acetone
SURROG. SPIKER:	CR	VERIFIER:	SA	Hexane
MATRIX SPIKER:	CR	VERIFIER:	SA	
SUBMITTED BY:	SA	REVIEWED BY:	06/16	

ID NUMBERS

FLORISIL CARTRIDGE #:	
GPC COLUMN #:	364134 (06-12-01)
SURROGATES ID CONC #:	5-13-7
MATRIX SPIKE SOLID/CONC #(s):	5-1-7
SOP - METHOD # : SWL-OP-	420 Rev. 1.0

COMMENTS

SB #061201C
SB #061201P

Extract sent through silgel acid clean-up!

PG 36 Book 1 Reqs

	SV	OD ST • PCB	OTHER
CONT EX. (3520C)			
SEP-F (3510C)			
SHAKER			
SONC. (3550B)		XXXXX	
SOXHLET			

[X] RUSH [ ] REEXTRACT [ ] TCLP [ ] DXIN

SAMPLE EXTRACTION L

BATCH: 010609SC

EXTRACT DATE: 2001-06-09 13:06

002778
Page: 2 of 2

SAMPLE ID (EPISODE #)	CLIENT CASE	DATE RECEIVED CLIENT SAMPLE ID	MATRIX/LEVEL	SAMPLE pH	% MOISTURE	DRY WEIGHT	AMOUNT EXTRACTED	EXTRACTED VOLUME	GPC VOLUME	GPC ELUTE VOL	FLORISIL VOL CONC	FLORISIL FIN VOL CONC	VOL SV-P	FIN PROCESS VOLUME	SCREEN Y/N	MS SV-P	SURR SV-P	BASE pH CONFIRMATION	ACID pH CONFIRMATION
					%	g	g • ml	ml	ml	ml	ml	ml	ml	ml	Y/N	µL	µL		
46732.49 GC699	EPA 29294	06/09/2001 09:30 E30Z4	S/L	7.60	13.89	25.9	30.02	350	10/5	45	2.0		5.0	5.0	N		1000		
46732.50 GC699	EPA 29294	06/09/2001 09:30 E30Z5	S/L	7.28	16.03	25.6	30.53	350	10/5	45	2.0		5.0	5.0	N		1000		
46732.51 GC699	EPA 29294	06/09/2001 09:30 E30Z6	S/L	7.23	25.17	22.8	30.41	350	10/5	45	2.0		5.0	5.0	N		1000		
46732.52 GC699	EPA 29294	06/09/2001 09:30 E30Z7	S/L	7.20	47.44	15.8	30.02	350	10/5	45	2.0		5.0	5.0	N		1000		
46732.53 GC699	EPA 29294	06/09/2001 09:30 E30Z8	S/L	7.37	27.22	21.9	30.11	350	10/5	45	2.0		5.0	5.0	N		1000		
46732.54 GC699	EPA 29294	06/09/2001 09:30 E30Z9	S/L	7.34	44.12	17.2	30.83	350	10/5	45	2.0		5.0	5.0	N		1000		
46732.55 GC699	EPA 29294	06/09/2001 09:30 E3100	S/L	6.99	72.78	8.2	30.28	350	10/5	45	2.0		5.0	5.0	N		1000		
46732.56 GC699	EPA 29294	06/09/2001 09:30 E3101	S/L	7.61	72.97	8.4	30.98	350	10/5	45	2.0		5.0	5.0	N		1000		
46732.57 GC699	EPA 29294	06/09/2001 09:30 E3102	S/L	7.10	85.91	4.2	30.01	350	10/5	45	2.0		5.0	5.0	N		1000		
46732.58 GC699	EPA 29294	06/09/2001 09:30 E3103	S/L	7.42	72.78	8.4	30.71	350	10/5	45	2.0		5.0	5.0	N		1000		
46732.59 GC699	EPA 29294	06/09/2001 09:30 E3104	S/L	7.26	76.54	7.1	30.28	350	10/5	45	2.0		5.0	5.0	N		1000		

Stage

INITIALS

WEIGHING:	SA	EXTRACTION:	CD	FLORISIL:	
CLEANUP:	CR	KD:	MC	CH2Cl2	
BLOWDOWN:	SA	TV:	BTB	acetone	
SURROG. SPIKER:	CR	VERIFIER:	SA		
MATRIX SPIKER:	CR	VERIFIER:	SA	06/16	
SUBMITTED BY:	SA	REVIEWED BY:			

ID NUMBERS

FLORISIL CARTRIDGE #:

GPC COLUMN #: 364134

SURROGATES ID CONC #: 5-13-7

MATRIX SPIKE SOLID/CONC #(s): 5-1-7

SOP - METHOD # : SWL-OP- 420 Rev. 1.0

COMMENTS

SB # 061201C
SB # 061201D

Extracts went through stage 2 acid clean-up

PG 36 BOOK, Rec

EXTRACT RECEIPT LOG

SWL-OP-301 REV. NO.: _____
SWL OP-301-EXTRCPT-6
SWOK/AATS
OP301a3.doc

Date	Time	Sample Episode Number(s)	Client	Extr. Chemist Initials	Re-extract? (Y/N)	Comments	No. of Samp.
06/13	9:30p	46702.33-50 MS/MSD	EPA	SA	N	GC699	18
06/13	9:30p	46721.1-4	EPA	SA	N	GC699	4
06/13	9:30p	46721.5-26	EPA	SA	N	GC699	22
		46733.08.09.10ms11ms12	Tetra			GC399	5
6/14	4:15p	46611.01-06 MS MSD	Bellette	GS	Y	GC310	X
		46722.01-08; 723.01-05;	B&MC	GS	N	GC599	5/8
		46731-01-06; 745.01		GS	N		5
06/14	7:45	46727.12-16 MS/MSD	FERNALD	SA	N	~~FERNALD~~ GC899	5
06/14	7:45	46722.01-09	B&MC	SA	N	GC801	7
06/14	7:45	46723.01-03,05	B&MC	SA	N	GC801	4
06/14	7:45	46731.01,02MS,03MSD,05,06	B&MC	SA	N	GC801	5
4	7:45	46745.01	B&MC	SA	N	GC801	1
6-15	11:15	46718.01;02	EPA	MC	N	GC819	2
6/15	6:40	PEST/ARoCl CHK	SWLO	SA	N	GC819	X
06/15	6:40	PEST/ARoCl CHK	SWLO	SA	N	GC819	X
06/15	6:40	PEST/ARoCl CHK	SWLO	SA	N	GC819	X
06/15	6:40	PEST/ARoCl CHK	SWLO	SA	N	GC819	X
06/15	8:00	46663.24-28 MS/MSD	EPA	SA	Y	GC699	5
6/15	9:00	46721.27-48 MS/MSD	EPA	SA	N	GC699	22
6/15	9:55	46732.38-59 MS/MSD	EPA	SA	N	GC699	22
6/16	8:15a	46734.07-11 MS MSD	CRC	GS	N	GC330	11

306

FedEx emp# 15937 08JUN01

PRIORITY SATURDAY

TRK# 8218 7698 1987 FORM 0215

Deliver By: 09JUN01 A1

74012 -OK-US

TUL X0 RVSA

165

1000

FedEx USA Airbill FedEx Tracking Number 821876981987

Form I.D. No.

1 From This portion can be removed for Recipient's records.

Date 6·8·01 FedEx Tracking Number 821876981987

Sender's Name Lorie Hong Phone 847 918-4000

Company ROY F WESTON INC

Address 750 E BUNKER CT STE 500 Dept./Floor/Suite/Room

City VERNON HILLS State IL ZIP 60061

RECIPIENT: PEEL HERE

2 Your Internal Billing Reference 12634.001.002.0067.00

3 To

Recipient's Name SAMPLE LOG-IN Phone 918 251-0545

Company SOUTHWEST LABS OF OKAAHOMA, INC.

Address 1700 WEST ALBANY, STE. C

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

Dept./Floor/Suite/Room

City BROKEN ARROW State OK ZIP 74012

8218 7698 1987

0146095931

4a Expre

☒ FedEx Next busi

☐ FedEx Second

4b Express Freight Service

☐ FedEx 1Day Freight* Next business day ☐ FedEx 2Day Freight Second business day ☐ FedEx 3Day Freight Third business day

* Call for Confirmation:

5 Packaging * Declared value limit $500

☐ FedEx Envelope/Letter* ☐ FedEx Pak* ☒ Other Pkg. Includes FedEx Box, FedEx Tube, and customer pkg.

6 Special Handling Include FedEx address in Section 3.

☒ SATURDAY Delivery Available for FedEx Priority Overnight and FedEx 2Day to select ZIP codes ☐ SUNDAY Delivery Available for FedEx Priority Overnight to select ZIP codes ☐ HOLD Weekday at FedEx Location Not available with FedEx First Overnight ☐ HOLD Saturday at FedEx Location Available for FedEx Priority Overnight and FedEx 2Day to select locations

Does this shipment contain dangerous goods? One box must be checked.

☐ No ☐ Yes As per attached Shipper's Declaration ☐ Yes Shipper's Declaration not required ☐ Dry Ice Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous Goods cannot be shipped in FedEx packaging. ☐ Cargo Aircraft Only

7 Payment Bill to: Enter FedEx Acct. No. or Credit Card No. below. ☐ Obtain Recip. Acct. No.

☒ Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☐ Third Party ☐ Credit Card ☐ Cash/Check

Total Packages 1 Total Weight 129 Total Charges

Credit Card Auth.

†Our liability is limited to $100 unless you declare a higher value. See the *FedEx Service Guide* for details.

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

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

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402

ORIGINAL DOCUMENTS ARE INCLUDED IN

CSF 29294 SDG E3054

Signature S Jackett

Date 6/11/01

307

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 29294
DAS No: 2001ZG07
SDG No: ~~E30T4~~ E30W6 L

Date Shipped: 6/8/01
Carrier Name: FedEx
Airbill: 821876981976
Shipped to: Southwest Labs of Oklahoma, Inc. 1700 West Albany Suite C Broken Arrow OK 74012 (918) 251-0545

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
[signature]	6801 1500	[signature]	6-9-01 9:30
2			
3			
4			

Sampler Signature:

For Lab Use Only ST 6/11/01
Lab Contract No: 68W99079
Unit Price: 910.40
Transfer To:
Lab Contract No:
Unit Price:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E30T9	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050449 (Ice Only) (1)	AP-SD054-05	S: 6/7/01	16:03		
E30W0	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-50451 (Ice Only) (1)	AP-SD054-05DP	S: 6/7/01	16:03		
E30W1	Sediment/ Joe Klemp	L/G	PCBs (7)	5-050452 (Ice Only) (1)	AP-SD036-01	S: 6/7/01	15:20		
E30W2	Sediment/ Joe Klemp	L/G	PCBs (7)	5-050455 (Ice Only) (1)	AP-SD036-02	S: 6/7/01	15:20		
E30W3	Sediment/ Joe Klemp	L/G	PCBs (7)	5-050457 (Ice Only) (1)	AP-SD036-03	S: 6/7/01	15:20		
E30W4	Sediment/ Joe Klemp	L/G	PCBs (7)	5-050459 (Ice Only) (1)	AP-SD036-04	S: 6/7/01	15:20		
E30W5	Sediment/ Joe Klemp	L/G	PCBs (7)	5-050461 (Ice Only) (1)	AP-SD043-01	S: 6/7/01	16:15		
E30W6	Sediment/ Joe Klemp	L/G	PCBs (7)	5-050462 (Ice Only) (1)	AP-SD043-02	S: 6/7/01	16:15		
E30W7	Sediment/ Joe Klemp	L/G	PCBs (7)	5-050463 (Ice Only) (1)	AP-SD043-03	S: 6/7/01	16:15		
E30W8	Sediment/ Joe Klemp	L/G	PCBs (7)	5-050465 (Ice Only) (1)	AP-SD043-03DP	S: 6/7/01	16:15		

E30W6 ~~E30T4~~ ST 6/11/01

COPY
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E30S4
Signature [signature]
Date 6/11/01

308

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC: E30T4, E30W6, E30X7, E30Y9	Additional Sampler Signature(s): [signature]	Cooler Temperature Upon Receipt: 4.8°C TB	Chain of Custody Seal Number: 177889, 177890
Analysis Key: PCBs = PCBs	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact?__ Shipment Iced?__

TR Number: 5-201142833-060801-0002

LABORATORY COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Reston, VA. 20191-3436 Phone 703/264-9348 Fax 703/264-9222

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No:	29294
DAS No:	2001ZG07
SDG No:	E30W6

L

Date Shipped:	6/8/01
Carrier Name:	FedEx
Airbill:	821876981976
Shipped to:	Southwest Labs of Oklahoma, Inc. 1700 West Albany Suite C Broken Arrow OK 74012 (918) 251-0545

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
[signature]	6-8-01 1500	[signature]	6-9-01 8:30
2			
3			
4			

Sampler Signature:

For Lab Use Only

Lab Contract No:	68W99079
Unit Price:	910.40
Transfer To:	
Lab Contract No:	
Unit Price:	

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION	SAMPLE COLLECT DATE/TIME			INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E30X9	Soil/Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050484 (Ice Only) (1)	AP-SL060-04DP	S: 6/7/01	16:51			
E30Y0	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050485 (Ice Only) (1)	AP-SD046-01	S: 6/7/01	18:39			
E30Y1	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050487 (Ice Only) (1)	AP-SD046-02	S: 6/7/01	18:39			
E30Y2	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050489 (Ice Only) (1)	AP-SD046-03	S: 6/7/01	18:39			
E30Y3	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050491 (Ice Only) (1)	AP-SD046-03DP	S: 6/7/01	18:39			
E30Y4	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050492 (Ice Only) (1)	AP-SD046-04	S: 6/7/01	18:39			
E30Y5	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050494 (Ice Only) (1)	AP-SD046-05	S: 6/7/01	18:39			
E30Y6	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050496 (Ice Only) (1)	AP-SD055-01	S: 6/7/01	19:53			
E30Y7	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050499 (Ice Only) (1)	AP-SD055-02	S: 6/7/01	19:53			
E30Y8	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050500 (Ice Only) (1)	AP-SD055-03	S: 6/7/01	19:53			

E30W6

COPY
ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF 29294 SDG E30W5 E30W6
Signature [signature]
Date 6/11/01

SI 6/11/01

309

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC: E30T4, E30W6, E30X7, E30Y9	Additional Sampler Signature(s): [signature]	Cooler Temperature Upon Receipt: 4.8°C T.B.	Chain of Custody Seal Number: 177889, 177890
Analysis Key: PCBs = PCBs	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact?__ Shipment Iced?__

TR Number: 5-201142833-060801-0002

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Send Copy to: Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Reston, VA. 20191-3436 Phone 703/264-9348 Fax 703/264-9222

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No:	29294
DAS No:	2001ZG07
SDG No:	E30W6

L

Date Shipped:	6/8/01
Carrier Name:	FedEx
Airbill:	821876981976
Shipped to:	Southwest Labs of Oklahoma, Inc. 1700 West Albany Suite C Broken Arrow OK 74012 (918) 251-0545

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
1	6-8-01 1500		6-9-01 9:30
2			
3			
4			

Sampler Signature:

For Lab Use Only

Lab Contract No:	68W99019
Unit Price:	910.40
Transfer To:	
Lab Contract No:	
Unit Price:	

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt E30W6
E30Y9	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050502 (Ice Only) (1)	AP-SD055-04	S: 6/7/01 19:53		
E30Z0	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050504 (Ice Only) (1)	AP-SD055-03DP	S: 6/7/01 19:53		
E30Z1	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050505 (Ice Only) (1)	AP-SD034-01	S: 6/7/01 17:35		
E30Z2	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050506 (Ice Only) (1)	AP-SD034-02	S: 6/7/01 17:35		
E30Z3	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050507 (Ice Only) (1)	AP-SD034-03	S: 6/7/01 17:35		
E30Z4	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050508 (Ice Only) (1)	AP-SD034-04	S: 6/7/01 17:35		
E30Z5	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050509 (Ice Only) (1)	AP-SD034-05	S: 6/7/01 17:35		
E30Z6	Sediment/ Joe Klemp	L/G	PCBs (7)	5-050510 (Ice Only) (1)	AP-SD032-01	S: 6/7/01 19:00		
E30Z7	Sediment/ Joe Klemp	L/G	PCBs (7)	5-050512 (Ice Only) (1)	AP-SD032-02	S: 6/7/01 19:00		
E30Z8	Sediment/ Joe Klemp	L/G	PCBs (7)	5-050514 (Ice Only) (1)	AP-SD032-03	S: 6/7/01 19:00		

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC: E30T4, E30W6, E30X7, E30Y9	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 4.8°C T.B.	Chain of Custody Seal Number: 177889, 177890
Analysis Key: PCBs = PCBs	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact?__ Shipment Iced?__

TR Number: 5-201142833-060801-0002

LABORATORY COPY

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USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No:	29294
DAS No:	2001ZG07
SDG No:	E30W6

L

Date Shipped:	6/8/01
Carrier Name:	FedEx
Airbill:	821876981976
Shipped to:	Southwest Labs of Oklahoma, Inc. 1700 West Albany Suite C Broken Arrow OK 74012 (918) 251-0545

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
[signature]	6801 1800	[signature]	6-9-01 5:30
2			
3			
4			

Sampler Signature:

For Lab Use Only

Lab Contract No:	68W99079
Unit Price:	910.40
Transfer To:	
Lab Contract No:	
Unit Price:	

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt E30W6
E30Z9	Sediment/ Joe Klemp	L/G	PCBs (7)	5-050517 (Ice Only) (1)	AP-SD032-04	S: 6/7/01 19:00		
E3100	Sediment/ Joe Klemp	L/G	PCBs (7)	5-50519 (Ice Only) (1)	AP-SD031-01	S: 6/7/01 18:35		
E3101	Sediment/ Joe Klemp	L/G	PCBs (7)	5-050521 (Ice Only) (1)	AP-SD031-02	S: 6/7/01 18:35		
E3102	Sediment/ Joe Klemp	L/G	PCBs (7)	5-050523 (Ice Only) (1)	AP-SD031-03	S: 6/7/01 18:35		
E3103	Sediment/ Joe Klemp	L/G	PCBs (7)	5-050525 (Ice Only) (1)	AP-SD031-04	S: 6/7/01 18:35		
* E3104	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050527 (Ice Only) (1)	AP-SD047-01	S: 6/7/01 19:15		
E3105	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050529 (Ice Only) (1)	AP-SD047-02	S: 6/7/01 19:15		
E3106	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050531 (Ice Only) (1)	AP-SD047-03	S: 6/7/01 19:15		
E3107	Sediment/ Joe Ruiz	L/G	PCBs (7)	5-050533 (Ice Only) (1)	AP-SD047-04	S: 6/7/01 19:15		
E3108	Sediment/ Joe Klemp	L/G	PCBs (7)	5-050535 (Ice Only) (1)	AP-SD037-01	S: 6/7/01 15:50		

* SDG Final Sample

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC: E30T4, E30W6, E30X7, E30Y9	Additional Sampler Signature(s): [signature]	Cooler Temperature Upon Receipt: 4-8°C T.B.	Chain of Custody Seal Number: 177889, 177890
Analysis Key: PCBs = PCBs	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact?__ Shipment Iced?__

TR Number: 5-201142833-060801-0002

LABORATORY COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Reston, VA. 20191-3436 Phone 703/264-9348 Fax 703/264-9222

SAMPLE LOG-IN SHEET

Lab Name SOUTHWEST LABORATORY OF OKLAHOMA	Page 3 of 5
Received by (Print Name) JASON SPRIGGS	Log-In Date 2001-06-09 11:02
Received by (Signature)	
Case Number 29294	Sample Delivery Group No. E30T4 / ~~SAS Number~~

Remarks: Cooler: 06/09/01-1

1. Custody Seals(s)	Present/Absent* Intact/ Broken
2. Custody Seal Nos.	177889-890
3. Chain-of Custody Records	Present/Absent*
4. Traffic Reports or Packing Lists	Present/Absent*
5. Airbill	Airbill/ Sticker Present/Absent*
6. Airbill No.	821876981976 87 (JS) 6-9-01
7. Sample Tags	Present/Absent*
Sample Tag Numbers	Listed/Not Listed on Chain-of-Custody
8. Sample Condition	Intact/ Broken*/Leaking
Cooler Temperature Indicator Bottle	Present/Absent*
9. Cooler Temperature	4.8c
10. Does Information on Custody records, traffic reports, and sample tags agree?	Yes/ No*
11. Date Received at Lab	06/09/01
12. Time Received	09:30

EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment: etc,
E30Y4	5-050492	46732.36	
E30Y5	5-050494	46732.37	
E30Y6	5-050496	46732.38	
E30W6	5-050462	46732.39	
E30W6MS	5-050462	46732.40	
E30W6MSD	5-050462	46732.41	
E30Y7	5-050499	46732.42	
E30Y8	5-050500	46732.43	
E30Y9	5-050502	46732.44	
E30Z0	5-050504	46732.45	
E30Z1	5-050505	46732.46	
E30Z2	5-050506	46732.47	
E30Z3	5-050507	46732.48	
E30Z4	5-050508	46732.49	
E30Z5	5-050509	46732.50	
E30Z6	5-050510	46732.51	
E30Z7	5-050512	46732.52	

ORIGINAL DOCUMENTS ARE INCLUDED IN
CCF 29294 SDG E30T5
Signature S Sackett
Date 6/11/01

Sample Transfer	
Fraction PCB	Fraction
Area # 8	Area #
By JS	By
On 6-9-01	On

* Contact SMO and attach record of resolution.

Reviewed By Harry M Borg	~~Logbook No.~~
Date 6-9-01	Logbook Page No.

Southwest Laboratory of Oklahoma
1700 W. Albany Suite C
Broken Arrow, OK 74012-1421

SAMPLE LOG-IN RECORD

Date 06/09/2001
Episode **46732**
Client **EPA**
Project OLM04.2
Received 06/09/01
Logged In 06/09/01

TEST	PRI	DUE	CONTAINER	DESCRIPTION	EXTRACTED	ANALYST	ANALYZED
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46732.56**	Sampled:06/07/01 18:35	ID:E3101			SDG:	Matrix: S	Containers: 1
GC699	6	06/15/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46732.57**	Sampled:06/07/01 18:35	ID:E3102			SDG:	Matrix: S	Containers: 1
GC699	6	06/15/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46732.58**	Sampled:06/07/01 18:35	ID:E3103			SDG:	Matrix: S	Containers: 1
GC699	6	06/15/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46732.59**	Sampled:06/07/01 19:15	ID:E3104			SDG:	Matrix: S	Containers: 1
GC699	6	06/15/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46732.60**	Sampled:06/07/01 19:15	ID:E3105			SDG:	Matrix: S	Containers: 1
GC699	6	06/15/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46732.61N2**	Sampled:06/07/01 16:51	ID:E30X7			SDG:	Matrix: S	Containers: 1
GC699	6	06/15/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46732.62MS3**	Sampled:06/07/01 16:51	ID:E30X7MS			SDG:	Matrix: S	Containers: 1
GC699	6	06/15/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46732.63SD3**	Sampled:06/07/01 16:51	ID:E30X7MSD			SDG:	Matrix: S	Containers: 1
GC699	6	06/15/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46732.64**	Sampled:06/07/01 19:15	ID:E3106			SDG:	Matrix: S	Containers: 1
GC699	6	06/15/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46732.65**	Sampled:06/07/01 19:15	ID:E3107			SDG:	Matrix: S	Containers: 1
GC699	6	06/15/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46732.66**	Sampled:06/07/01 15:50	ID:E3108			SDG:	Matrix: S	Containers: 1
GC699	6	06/15/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46732.67**	Sampled:06/07/01 15:50	ID:E3109			SDG:	Matrix: S	Containers: 1
GC699	6	06/15/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46732.68**	Sampled:06/07/01 15:50	ID:E3110			SDG:	Matrix: S	Containers: 1
GC699	6	06/15/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46732.69**	Sampled:06/07/01 15:50	ID:E3111			SDG:	Matrix: S	Containers: 1

Southwest Laboratory of Oklahoma
1700 W. Albany Suite C
Broken Arrow, OK 74012-1421

SAMPLE LOG-IN RECORD

Date 06/09/2001 Page4
Episode **46732**
Client **EPA**
Project OLM04.2
Received 06/09/01
Logged In 06/09/01

TEST	PRI	DUE	CONTAINER	DESCRIPTION	EXTRACTED	ANALYST	ANALYZED
Sample: **46732.42**		Sampled:06/07/01	19:53	ID:E30Y7	SDG:	Matrix: S	Containers: 1
GC699	6	06/15/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46732.43**		Sampled:06/07/01	19:53	ID:E30Y8	SDG:	Matrix: S	Containers: 1
GC699	6	06/15/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46732.44**		Sampled:06/07/01	19:53	ID:E30Y9	SDG:	Matrix: S	Containers: 1
GC699	6	06/15/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46732.45**		Sampled:06/07/01	19:53	ID:E30Z0	SDG:	Matrix: S	Containers: 1
GC699	6	06/15/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46732.46**		Sampled:06/07/01	17:35	ID:E30Z1	SDG:	Matrix: S	Containers: 1
GC699	6	06/15/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46732.47**		Sampled:06/07/01	17:35	ID:E30Z2	SDG:	Matrix: S	Containers: 1
GC699	6	06/15/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46732.48**		Sampled:06/07/01	17:35	ID:E30Z3	SDG:	Matrix: S	Containers: 1
GC699	6	06/15/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46732.49**		Sampled:06/07/01	17:35	ID:E30Z4	SDG:	Matrix: S	Containers: 1
GC699	6	06/15/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46732.50**		Sampled:06/07/01	17:35	ID:E30Z5	SDG:	Matrix: S	Containers: 1
GC699	6	06/15/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46732.51**		Sampled:06/07/01	19:00	ID:E30Z6	SDG:	Matrix: S	Containers: 1
GC699	6	06/15/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46732.52**		Sampled:06/07/01	19:00	ID:E30Z7	SDG:	Matrix: S	Containers: 1
GC699	6	06/15/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46732.53**		Sampled:06/07/01	19:00	ID:E30Z8	SDG:	Matrix: S	Containers: 1
GC699	6	06/15/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46732.54**		Sampled:06/07/01	19:00	ID:E30Z9	SDG:	Matrix: S	Containers: 1
GC699	6	06/15/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46732.55**		Sampled:06/07/01	18:35	ID:E3100	SDG:	Matrix: S	Containers: 1
GC699	6	06/15/2001	A	NON STD PCB			

Southwest Laboratory of Oklahoma
1700 W. Albany Suite C
Broken Arrow, OK 74012-1421

SAMPLE LOG-IN RECORD

Date 06/09/2001 Page3
Episode **46732**
Client **EPA**
Project OLM04.2
Received 06/09/01
Logged In 06/09/01

TEST	PRI	DUE	CONTAINER	DESCRIPTION	EXTRACTED	ANALYST	ANALYZED
GC699	6	06/15/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46732.29**	Sampled:06/07/01 16:51			ID:E30X6	SDG:	Matrix: S	Containers: 1
GC699	6	06/15/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46732.30**	Sampled:06/07/01 16:51			ID:E30X8	SDG:	Matrix: S	Containers: 1
GC699	6	06/15/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46732.31**	Sampled:06/07/01 16:51			ID:E30X9	SDG:	Matrix: S	Containers: 1
GC699	6	06/15/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46732.32**	Sampled:06/07/01 18:39			ID:E30Y0	SDG:	Matrix: S	Containers: 1
GC699	6	06/15/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46732.33**	Sampled:06/07/01 18:39			ID:E30Y1	SDG:	Matrix: S	Containers: 1
GC699	6	06/15/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46732.34**	Sampled:06/07/01 18:39			ID:E30Y2	SDG:	Matrix: S	Containers: 1
GC699	6	06/15/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46732.35**	Sampled:06/07/01 18:39			ID:E30Y3	SDG:	Matrix: S	Containers: 1
GC699	6	06/15/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46732.36**	Sampled:06/07/01 18:39			ID:E30Y4	SDG:	Matrix: S	Containers: 1
GC699	6	06/15/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46732.37**	Sampled:06/07/01 18:39			ID:E30Y5	SDG:	Matrix: S	Containers: 1
GC699	6	06/15/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46732.38**	Sampled:06/07/01 19:53			ID:E30Y6	SDG:	Matrix: S	Containers: 1
GC699	6	06/15/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46732.39N2**	Sampled:06/07/01 16:15			ID:E30W6	SDG:	Matrix: S	Containers: 1
GC699	6	06/15/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46732.40MS2**	Sampled:06/07/01 16:15			ID:E30W6MS	SDG:	Matrix: S	Containers: 1
GC699	6	06/15/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			
Sample: **46732.41SD2**	Sampled:06/07/01 16:15			ID:E30W6MSD	SDG:	Matrix: S	Containers: 1
GC699	6	06/15/2001	A	NON STD PCB			
IN660	8	06/11/2001	A	% MOISTURE			

ORIGINAL DOCUMENTS ARE INCLUDED IN
CSF SDG: 729 Matrix: S SDG 8665
Signature S. Jackson
Date 6/15/01

SAMPLE LOG-IN SHEET

Lab Name SOUTHWEST LABORATORY OF OKLAHOMA	Page 4 of 5
Received by (Print Name) JASON SPRIGGS	Log-In Date 2001-06-09 11:02
Received by (Signature)	
Case Number 29294	Sample Delivery Group No. / SAS Number

Remarks: Cooler: 06/09/01-1

1. Custody Seals(s)	Present/Absent* Intact/ Broken
2. Custody Seal Nos.	177889-890
3. Chain-of Custody Records	Present/Absent*
4. Traffic Reports or Packing Lists	Present/Absent*
5. Airbill	Airbill/ Sticker Present/Absent*
6. Airbill No.	821876981976 ~~887~~ 887 (HS) 6-9-01
7. Sample Tags	Present/Absent*
Sample Tag Numbers	Listed/Not Listed on Chain-of-Custody
8. Sample Condition	Intact/ Broken*/Leaking
Cooler Temperature Indicator Bottle	Present/Absent*
9. Cooler Temperature	4.8c
10. Does Information on Custody records, traffic reports, and sample tags agree?	Yes/ No*
11. Date Received at Lab	06/09/01
12. Time Received	09:30

EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment: etc,
E30Z8	5-050514	46732.53	
E30Z9	5-050517	46732.54	
E3100	5-050519	46732.55	
E3101	5-050521	46732.56	
E3102	5-050523	46732.57	
E3103	5-050525	46732.58	
E3104	5-050527	46732.59	
E3105	5-050529	46732.60	
E30X7	5-050479	46732.61	
E30X7MS	5-050479	46732.62	
E30X7MSD	5-050479	46732.63	
E3106	5-050531	46732.64	
E3107	5-050533	46732.65	
E3108	5-050535	46732.66	
E3109	5-050537	46732.67	
E3110	5-050539	46732.68	
E3111	5-050541	46732.69	

Sample Transfer

Fraction PCB	Fraction
Area # 9	Area #
By JS	By
On 6-9-01	On

* Contact SMO and attach record of resolution.

Reviewed By Harry Imbrag	Logbook No.
Date 6-9-01	Logbook Page No.

FORM-DC1 OLM04.2

Harry Borg

From: Bauer, Heather [Heather.Bauer@dyncorp.com]
Sent: Wednesday, June 13, 2001 10:35 AM
To: Harry Borg (E-mail)
Cc: Howard Pham (E-mail); Tanya Balla (E-mail)
Subject: Region 05 | Case 29294 | Lab SWOK | Issue samples received 6/9/01 - air bill # discrepancy | FINAL

Harry,
Following is the resolution from Region 5. Per the Region, it appears as though the airbills got mixed up. Please note all issues in the case narrative and proceed with the analysis of the samples. Please let me know if you have any other questions or problems.

Thanks,
Heather

Heather Bauer
DynCorp
(703)264-9348

-----Original Message-----

From: Pham.Howard@epamail.epa.gov [mailto:Pham.Howard@epamail.epa.gov]
Sent: Wednesday, June 13, 2001 10:39 AM
To: Bauer, Heather
Subject: Re: Region 05 | Case 29294 | Lab SWOK | Issue samples received 6/9/01 - air bill # discrepancy.

Hi Heather,

Please ask the lab proceed the analyses and made a note in the case narrative.

Thanks.

Howard Pham

"Bauer, Heather" <Heather.Bauer@dyncorp.com>

To: Howard Pham/R5/USEPA/US@EPA
Subject: Region 05 | Case 29294 | Lab SWOK | Issue samples received 6/9/01 - air bill # discrepancy
06/12/2001 03:32 PM
Please respond to "Bauer, Heather"

Howard,

Following is the response from the sampler. Please advise on how the lab should proceed as quickly as possible.

- Heather

  Heather Bauer
  DynCorp
  (703)264-9348

-----Original Message-----

From: Heather Bauer [mailto:heather.bauer@dyncorp.com]
Sent: Monday, June 11, 2001 2:36 PM
To: 'Howard at home (E-mail)'
Subject: Region 05 | Case 29294 | Lab SWOK | Issue samples received

6/9/01 - air bill # discrepancy.

Howard,

Tanya Balla said that dioxins were sent to the same lab but were outside of the CLP and it looked like the airbills got mixed up.

Heather Bauer
DynCorp
(703)264-9348

6/11/2001 2:20 P.M. Phone conversation with Tanya Balla. She said that dioxins were sent to the same lab but were outside of the CLP and it looked like the airbills got mixed up.

-----Original Message-----

From: **Heather Bauer [mailto:heather.bauer@dyncorp.com]**
Sent: Monday, June 11, 2001 12:08 PM
To: 'Tanya Balla (E-mail)'
Cc: 'Howard Pham (E-mail)'; 'Howard at home (E-mail)'
Subject: Region 05 | Case 29294 | Lab SWOK | Issue samples received 6/9/01 - air bill # discrepancy.

This is Carolyn Mack, CLP Scheduling Team Leader. I am covering for Heather while she is out.

SWOK sent the following e-mail indicating that the airbill that was listed on the TR/COC is different that the actual airbill number. This is indicated in the below e-mail. Also, the lab received some dioxin samples under airbill # 821876981987 from the same person as the CLP samples.

Heather Bauer
DynCorp
(703)264-9348

-----Original Message-----

From: **hborg@swlab.com [mailto:hborg@swlab.com]**
Sent: Saturday, June 09, 2001 1:02 PM
To: Mack, Carolyn
Cc: Bauer, Heather
Subject: Region 5, Case # 29294; samples received 6/9/01;air bill # discrepancy.

Carolyn,

The airbill number on the cooler for the samples arriving on

6/9/01 was FED X # 821876981987

The airbill number listed on the traffic reports was FED X #

821876981976

The laboratory will note the cooler airbill as FED X # 821876981987 on the DC1 form and note problem in SDG narrative.

Note: The laboratory also received Dioxin samples for a Region 5 (regional contract) which had FED X # 821876981987 listed on that traffic report and the cooler had FED X # 821876981976. These two coolers were sent from the same person.

Harry M. Borg
Organic Program Manager
SWOK

REQUEST FOR MODIFIED ANALYSIS

EPA's Contract Laboratory Program is seeking current CLP laboratories interested in performing organic analysis through a modified analysis protocol administered through the SOW "flexibility clause" as presented in Section 4.2.2.8 Exhibit A, page A-8 The modifications presented further in this document neither increase or decrease the value of the product (sample analysis and full data deliverables) provided to EPA by the Contractor (as compared to worth of original product previously negotiated in the contract). Therefore, no upward or downward contract adjustments in price are necessary, i.e., the modified analysis will be performed at the same price as that stated in the original contract.

In order to facilitate this modified analysis protocol, and to still ensure quality analytical data, the changes to the SOW listed in the link below will need to be made: Laboratories volunteering to analyze samples by this protocol are requested to review the changes and then acknowledge their desire to participate by signing, dating, and returning the acknowledgment document at the end of the request document.

It is not mandatory that laboratories agree to perform modified analyses, and laboratories will not be adversely affected by not performing modified analyses. All samples that are to be analyzed by the modified protocol will be distributed to the volunteer laboratories according to the sample scheduling Standard Operating Procedure (SOP). Volunteer laboratories are not guaranteed to receive samples under the modified protocol.

MODIFIED ANALYSIS FORM

Modification Reference Number: PCB-REG5

Estimated Number of Samples: 1400

Estimated Sampling Date: 3/21/2001 -

Sample Matrix: Soil and Sediments

Fractions Affected: Pesticides/ PCBs

Specific Modifications: See below:

Required OLM04.2 Changes

)LM04.2 requires contract laboratories to analyze samples for Pesticides and Aroclors through the protocol outlined in Exhibit D, Analytical Methods for Pesticides/Aroclors. Specific target analytes and their associated contract required quantitation limits (CRQL) are listed in Exhibit C, Section 3.0, page C-8 of OLM04.2.

The proposed modified analysis will require the laboratory to use sample cleanup and analysis techniques not currently written into OLM04.2. The cleanup techniques to be used should generally follow guidelines for Silica Gel cleanup as presented in SW 846 Method 3630, followed by Sulfuric acid cleanup as presented in SW 846 method 3665A, and the analytical technique should generally follow PCB GC guidelines presented in SW 846 Method 8082.

Because the particular cleanup technique is destructive to certain pesticide compounds that are target analytes of OLM04.2, isolation, quantitation, and reporting of pesticides compounds for this project is not required. Only the list of Aroclors presented in Exhibit C, Section 3 is to be analyzed and reported. Further, the need to perform the Florisil cleanup technique presented in Exhibit D/Pest is waved. However, the lab is required to still perform the GPC cleanup presented in Exhibit D/Pest.

For calibration purposes the following procedural and Quality Assurance requirements must be followed:

a. A 5-point calibration curve for combined aroclors 1016/1260 and single mid-level points for all other arochlors are to be analyzed prior to any sample analysis. For the 5-point analysis, the low point on the curve nust reflect the required CRQL.

b. The 5 point curve must meet an average 20 % RSD

c. If other arochlors are suspected, or other arochlors are detected in an analysis, a separate 5-point calibration must be run for the particular arochlor. The 20 % RSD requirement will apply to any other arochlor 5-point analysis performed.

d. A continuing calibration verification standard of arochlors 1016/1260 must be analyzed every 12 hours of analysis and not to exceed 20 samples.

e. The continuing calibration verification analysis must be within 15% of the expected value. If the % difference is greater than 15%, all samples analyzed prior to the continuing calibration verification must be reanalyzed.

f. Each extraction batch must contain method blanks, laboratory control spike and matrix spike/matrix spike duplicate samples (provided sufficient sample is sent for the matrix spike and duplicate analysis).

g. Each field sample and quality control sample must contain Decachlorobiphenyl surrogate (DCB). Samples may be spiked with TMX surrogate as well, but no recovery requirements will be placed on the TMX, as this compound is sensitive to sulfuric acid cleanup.

h. All samples failing to meet DCB recovery limits of 30% to 170% must be re-extracted and re-analyzed.

i. For the laboratory control spike, arochlor 1254 is to be used. The results of the laboratory control sample should fall between the recovery limits of 29 to 135 %. If the recovery falls below 29%, all samples within the

extraction batch must be re-extracted and re-analyzed. If the recovery is above 135% and arochlors are not detected in the batch sample, then no further action is necessary. If the recovery is above 135% and arochlors are present in any of the batch samples, then the samples containing arochlor must be re-extracted and re-analyzed.

j. Arochlor 1254 is to be used for the matrix spike and duplicate analyses. Advisory limits are 29% to 135% are set for the matrix spike and duplicate analysis. As these limit are only advisory, no particular action is required for QC samples outside these limits. However, consistent recovery outside these limits for analysis in which no apparent matrix interference is present may justify a review by EPA personnel, and the laboratory may be requested to repeat certain analyses at no further cost to the government.

k. Some, or all, samples may require a reporting CRQL of 25 ug/Kg (33 ug/Kg is the OLM04.2 required CRQL). For these samples, the laboratory must extract 40 grams of sample, as opposed to the normal 30 grams. Also, extra sodium sulfate may have to be added to the sample in order to dry the sample properly.

l. For reporting purposes, the laboratory is to provide a standard CLP data package at the turnaround time requested by the Region. Modifications to reporting requirements due to the changes presented in this modification request form shall be incorporated into the hard copy deliverables and into the electronic diskette where practical and easily accommodated. All CLP forms associated with florisil cleanup, and GPC check analysis are not required. Any other reporting requirements, not mentioned in this document which the lab believes is affected by the modifications required for this project shall be noted in the case narrative. All hard copy and electronic reporting requirements not affected by these modifications shall be subjected to CCS. The Organic Program Manager will make recommendations to the Contracting Officer as to any disputes concerning CCS defects charged against samples.

While not required in the final data package, the laboratory should keep on file in the lab, the SOPs used to perform the Acid and Silica Gel cleanup techniques. Also, the lab should include copies of this modification request forms in the final hard copy data packages.

Harry Borg

From: Harry Borg
Sent: Saturday, June 09, 2001 10:57 AM
To: 'Heather Bauer'
Subject: Region 5, Case # 29294: samples received 6/9/01; extra MS/MSD

Importance: High

Heather,

The samplers requested one extra MS/MSD than was needed to finish with one in each SDG. Therefore the laboratory did not use sample ~~E3Y09~~ for an MS/MSD.
E3Y9 6-11-01 (HB)

If the region wants this extra MS/MSD analyzed the laboratory will log sample for MS/MSD and submit two MS/MSDs in one of the SDGs.

Harry M. Borg
Organic Program Manager
SWOK

Harry Borg

From: Bauer, Heather [Heather.Bauer@dyncorp.com]
Sent: Wednesday, June 13, 2001 10:31 AM
To: Harry Borg (E-mail)
Cc: Howard Pham (E-mail); Tanya Balla (E-mail)
Subject: Region 05 | Case 29294 | Lab SWOK | Issue samples received 6/9/01 - extra MS/MSD | FINAL

Harry,
Following is the resolution from Region 5. Per the Region, the lab does not have to run the additional MS/MSD if it is not needed. Please note all issues in the case narrative and let me know if you have any other questions or problems.

Thanks,
Heather

Heather Bauer
DynCorp
(703)264-9348

-----Original Message-----

From: Pham.Howard@epamail.epa.gov [mailto:Pham.Howard@epamail.epa.gov]
Sent: Wednesday, June 13, 2001 10:36 AM
To: Bauer, Heather
Subject: Re: Region 05 | Case 29294 | Lab SWOK | Issue samples received 6/9/01 - extra MS/MSD

HI Heather,

Please ask the lab proceed the analyses with Tonya's resolution and a note in the case narrative.

Thanks.

Howard Pham

"Bauer, Heather" <Heather.Bauer@dyncorp.com>

To: Howard Pham/R5/USEPA/US@EPA
Subject: Region 05 | Case 29294 | Lab SWOK | Issue samples received 6/9/01 - extra MS/MSD
06/12/2001 03:30 PM
Please respond to "Bauer, Heather"

Howard,

Following is the response from the sampler. Please advise on how the lab should proceed as quickly as possible.

- Heather

  Heather Bauer
  DynCorp
  (703)264-9348

-----Original Message-----

From: Heather Bauer [mailto:heather.bauer@dyncorp.com]
Sent: Monday, June 11, 2001 2:29 PM
To: 'Howard at home (E-mail)'
Subject: Region 05 | Case 29294 | Lab SWOK | Issue samples received

6/9/01 - extra MS/MSD
Importance: High

Howard,

Tanya Balla said that as long as the lab has enough samples for MS/MSD, they do not need to run an additional MS/MSD.

Heather Bauer
DynCorp
(703)264-9348

6/11/2001 2:20 P.M. Phone conversation with Tanya Balla. She said as long as the lab has enough samples for MS/MSD they do not need an additional MS/MSD.

-----Original Message-----

From: **Heather Bauer [mailto:heather.bauer@dyncorp.com]**
Sent: Monday, June 11, 2001 12:04 PM
To: 'Tanya Balla (E-mail)'
Cc: 'Howard Pham (E-mail)'; 'Howard at home (E-mail)'
Subject: Region 05 | Case 29294 | Lab SWOK | Issue samples received
6/9/01 - extra MS/MSD
Importance: High

This is Carolyn Mack, CLP Scheduling Team Leader. I am covering for Heather while she is out.

SWOK sent the following e-mail indicating that an extra MS/MSD was indicated but the laboratory is not going to analyze an extra MS/MSD unless directed to. Please let me know if two MS/MSD should be analyzed instead of one.

Heather Bauer
DynCorp
(703)264-9348

-----Original Message-----

From: **hborg@swlab.com [mailto:hborg@swlab.com]**
Sent: Saturday, June 09, 2001 11:57 AM
To: Bauer, Heather
Subject: Region 5, Case # 29294: samples received 6/9/01; extra MS/MSD
Importance: High

Heather,

The samplers requested one extra MS/MSD than was needed to finish with one in each SDG. Therefore the laboratory did not use sample E3Y09 for an MS/MSD.

If the region wants this extra MS/MSD analyzed the laboratory will log sample for MS/MSD and submit two MS/MSDs in one of the SDGs.

Harry M. Borg
Organic Program Manager
SWOK

SOUTHWEST LABORATORY OF OKLAHOMA

ANALYTICAL REQUEST FORM, SWL-GA-131

Ref# 5103

Client	ACCOUNTING OFFICER	Client Code:	EPA
Contact	Heather Bauer	Phone&Fax#:	703-264-9348 703-264-9222
Project	OLM04.2	PO Number:	
Location	29294	Receipt Date	06/09/2001 Due: 06/15/2001
SDG	Open	Sample TAT:	Fax Rpt 7
Reports			
Data Pkgs	CLP: 2		
EDD			

Special Provisions: Must use arochlor 1254 for LCS/LCSD & MS/MSD
Samples need to be GPCed, silica gel cleaned & Acid cleaned.
Case#29294, to date WK OF 6/04: 217 soils , 11 sets QC

Client ID	Type	Matrix	GC699
E30W8		S	X
E30W9		S	X
E30X0		S	X
E30X1		S	X
E30X2		S	X
E30X3		S	X
E30X4		S	X
E30X5		S	X
E30X6		S	X
E30X8		S	X
E30X9		S	X
E30Y0		S	X
E30Y1		S	X
E30Y2		S	X
E30Y3		S	X
E30Y4		S	X
E30Y5		S	X
E30Y6		S	X
E30W6	N2	S	X
E30W6MS	MS2	S	X

St 6/11/01

ORIGINAL DOCUMENTS ARE INCLUDED IN E30LGS
CSF 29294 SDG E30T4
Signature S Dockell
Date 6/11/01

Reporting Address: ACCOUNTING OFFICER
Attn:;FINANCIAL MANAGEMENT DIVISION,ACCOUNTING OFFICE MD-32,RESEARCH TRIANGLE P

Billing Address: Same As Reporting Address

Project Officer: HARRY M. BORG

Prepared 06/09/2001

SOUTHWEST LABORATORY OF OKLAHOMA

ANALYTICAL REQUEST FORM, SWL-GA-131

Ref# 5103

Client	ACCOUNTING OFFICER	Client Code:	EPA
Contact	Heather Bauer	Phone&Fax#:	703-264-9348 703-264-9222
Project	OLM04.2	PO Number:	
Location	29294	Receipt Date	06/09/2001 Due: 06/15/2001
SDG	Open	Sample TAT:	Fax Rpt 7
Reports			
Data Pkgs	CLP: 2		
EDD			

Special Provisions: Must use arochlor 1254 for LCS/LCSD & MS/MSD
Samples need to be GPCed, silica gel cleaned & Acid cleaned.
Case#29294, to date WK OF 6/04: 217 soils , 11 sets QC

Client ID	Type	Matrix	GC699									
V6MSD	SD2	S	X									
E30Y7		S	X									
E30Y8		S	X									
E30Y9		S	X									
E30Z0		S	X									
E30Z1		S	X									
E30Z2		S	X									
E30Z3		S	X									
E30Z4		S	X									
E30Z5		S	X									
E30Z6		S	X									
E30Z7		S	X									
E30Z8		S	X									
E30Z9		S	X									
E3100		S	X									
E3101		S	X									
E3102		S	X									
E3103		S	X									
E3104		S	X									
E3105		S	X									

Reporting Address: ACCOUNTING OFFICER
Attn:;FINANCIAL MANAGEMENT DIVISION,ACCOUNTING OFFICE MD-32,RESEARCH TRIANGLE P

Billing Address: Same As Reporting Address

Project Officer: HARRY M. BORG

Prepared 06/09/2001